State Environmental Quality Review Act (SEQRA) Final Generic Environmental Impact Statement

CITY OF UTICA – HARBOR POINT REDEVELOPMENT Utica, New York

Appendix A

Written Comments

From: <Wimbush>, "John (DOS)" <<u>John.Wimbush@dos.ny.gov</u>>

Date: Wednesday, August 26, 2015 at 5:33 PM **To:** Brian Thomas < bthomas@cityofutica.com>

Cc: Lisa Nagle < linagle@elanpd.com, Kenneth Smith kenneth.smith@dos.ny.gov> **Subject:** Utica C1000459 Draft Generic Environmental Impact Statement: Attribution

Brian,

Recently from Elan, I received documents relating to the City's SEQRA Draft Generic Environmental Impact Statement, for which, thank you.

As per the contract this report requires funding attribution to the Environmental Protection Fund with the following text: "This report was prepared with funding provided by the New York State Department of State under Title 11 of the Environmental Protection Fund." The Department logo must also be included.

All material bearing the logo must now be pre-approved by the Department. To accomplish this, please resend the document to me with the text attribution on the front cover page and the logo on each of the pages within the document that have images and or maps (P14 Figure 1-1, P15 Figure 1-2, P16 Figure 1-3, P17 Figure 1-4 etc.) that carry logos for "Utica", "Paige", "O'Brien and Gere".

Thank you, John

John Wimbush

Coastal Resource Specialist,
Office of Planning and Development
New York Department of State

99 Washington Ave, One Commerce Plaza, Suite 1010 Albany, NY 12231-0001 518-486-3108 | John.Wimbush@dos.ny.gov www.dos.ny.gov

From: Mark Harf [mailto:mharf@aol.com]
Sent: Friday, September 11, 2015 7:00 PM

To: Brian Thomas

Subject: WKTV: Contact Brian Thomas

Dear Mr Thomas:

With respect to the link below from WKTV on the Utica Harbor:

http://www.wktv.com/news/Harbor Point Happenings.html

The city needs commercial development at the harbor not more parks.. Best use, if permitted environmentally, would be retail, (high tech) office, and residential to enhance the tax base. The description of an amphitheater, fields, and trails sounds like the once unique and beautiful Proctor and Conkling Parks which are already unaffordable and a bit neglected by the city, yet so deserving of restoration and preservation here and now.

Additionally, with Faxton Hospital soon to close, seems more can be done to enhance Murnane field as a premier minor league ball field, using the (former) Faxton hospital property for parking, overflow, and other fields.

We have beautiful and ample park space already in Utica. Get the Harbor Property on the tax rolls (retail, high tech office, and residential and maybe pubic trails for walking and biking); we don't need another baseball and soccer field there as a gift from planners who don't know the city very well, reflecting only on 1940s Blue Jays nostalgia.

Bring taxes in the city further down, so that it can sustain and build on Nano growth. More industry will not come and/or it will bypass Utica if city taxes remain high. The city must be equally as focused on reducing taxes and connecting to commerce if it wishes to attract related cluster industries. Companies don't locate where taxes are high and in Utica they remain high. Keep negotiating tough with public sector unions, streamline city costs, and do more to fill the tax base, especially with corporate enterprises. Thank you very much.

Mark Harf, 805 VanBuren St. Utica and NYC

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From: Frank Montecalvo [mailto:utica.frank@gmail.com]

Sent: Thursday, September 17, 2015 9:04 AM

To: Brian Thomas

Subject: Utica Harbor Point Plan

Utica Harbor: Living Up to Potential?

They began with the best of intentions. They took old sections of the city that were showing their age, took down what was there, and built new buildings. The idea was to breathe new life into old neighborhoods. . . . The buildings are now the legacy of our leaders of the 1960s and '70s. . . but did the results meet their goal?

Utica produced some notable buildings and public spaces during that era: New City Hall, Clock Tower, Plaza and Parking Garages; Hanna Park (with the now-defunct waterfall); Kennedy Plaza Apts.; State Office Building (with the now-defunct public plaza to the east which sat atop the now-defunct parking garage) and County Office Building. These visible signs of "progress" (and decay because they could not be maintained) were largely funded by taxpayer dollars.

In spite of the new buildings and public spaces, the hoped-for private investment -- and a renewed vibrancy -- never followed. Stores never occupied the storefronts built facing Columbia Street and the space is now occupied by a medical supply company with trailer trucks often stopping downtown traffic. The 6-story office tower intended to sit atop the garage next to City Hall never materialized. The large parcel of land surrounding the apartment tower attracted a couple of cheap metal buildings that were totally out of character with both old and new neighboring buildings -- but otherwise remained largely empty space (grass or parking lots) even to this day. The high rise apartment tower, which might have been designed to attract a well-heeled clientele owing to its views, contains "Section 8" housing. The "renewed" area was and is a far cry from the active, densely developed space that it replaced. What went wrong?

We now know that projects such as Utica's Urban Renewal project failed, at least in part, because they were inconsistent with and destroyed the "walkability" of the neighborhoods they were placed in, isolating people from amenities they want. Cities, such as Greenville, SC, learned this lesson and have recreated downtown vibrancy by making them pedestrian friendly. Successful private developers, even locally (eg. Landmarc, New Hartford Shopping Center), have learned the lesson, too, and are designing projects that are "walkable" in the sense that occupants will not have to walk far to find things they want.

Now compare the <u>proposed Harbor Point Plan</u> with Utica's failed <u>'60s Urban Renewal area</u>. Both plan(ned) a few key "trophy" buildings with uses pre-designated by local leaders (which may not be what "the market" would be interested in), in a low-density environment (which reduces "walkability"), with no requirement to "fit in" with each other or their surroundings, and with public "amenities" which require taxpayer maintenance.

Waterfront acreage should be the most valuable property in the city. Why is it being wasted

P. 2 Frank Montecalvo

on ball fields, an "interpretive center," a farmers' market, trails, and an outdoor amphitheater which will (1) not generate any tax revenue, but also (2) burden the taxpayer with additional things to maintain, and (3) duplicate amenities the City already has? (We commented on the ball fields back in 2010.)

Nicky Doodles at Harbor Point, which offers first rate products in a first rate facility, **now seems overshadowed and oddly placed** with the hulking Fairfield rising next door. If both are being touted as part of the Harbor Point "project," why do their designs detract from rather than enhance each other? **Wouldn't a good master plan for the project avoid incongruities and protect the value of private investment, by imposing design requirements to ensure that buildings "work" together,** *e.g.*, as in a "form based code?"

Harbor Point not only has waterfront acreage, it has a "million dollar view" of Downtown. Can you find anything in the Harbor Point Plan that leverages this viewshed to the advantage of the development?

Does the plan erase the boundary between governmental function and private effort? The plan talks about all the possible things that could go into Harbor Point, and even locates specific activities in specific places, but is there a market for these things? Maybe we do not really need another ethnic restaurant, another farmer's market, or another place for people to go and sample locally crafted products. Are artists inspired to complete canvases someone else has started? Isn't that what happened with Urban Renewal? Shouldn't it be up to the developer to decide what goes into the project? And where?

The City's interest should be limited to providing the regulatory and infrastructure framework calculated necessary to ensure development of sufficient density to increase net revenue to the city. If this is not possible, perhaps Harbor Point's time has not yet arrived. Regardless . . .

The Harbor Point Plan does not seem to reflect the site's potential.

Frank Montecalvo
Past Chairman of the Infrastructure and Waterfront Development Subcommittee
Utica Master Plan Steering Committee

Frank Montecalvo 202 Comenale Crescent New York Mills, NY 13417 315-570-3535 **From:** <u>bobby@quahogsunited.com</u> [<u>mailto:bobby@quahogsunited.com</u>]

Sent: Saturday, September 19, 2015 6:19 PM

To: Brian Thomas

Subject: Letter on the way to Mr. Gilroy

21 September 2015

Chairman Vincent J. Gilroy, Jr Utica Harbor Point Development Corporation 1 Kennedy Plaza Utica, NY 13502 Dear Chairman Gilroy:

Recently on <u>BobbyO1967.com</u>, I have been discussing bringing agriculture into the Utica Tourism plan. Some local elected officials have been reading the commentary and wondered aloud if Harbor Point could be an opportunity in the waiting. After some quick brainstorming, there is a line of thinking I would like you to consider.

As you are aware from previous communications, I have been critical of locating a baseball stadium at Harbor Point. My objections stem from two key issues.

First, we already have a County Baseball Stadium. There is nothing in the Harbor Point agreement which indicates that the County would take over the new stadium or cease operating the old one. Until this ³ownership and maintenance² conundrum is figured out, the stadium at Harbor Point does not make a lot of sense.

The other problem with a baseball stadium at Harbor Point is the direction of runoff which is away from where the hotels are located. That means on days after rainstorms, deep casual water will be a baseball stadium staple. That is a dangerous situation for any player.

Having lived on the coast most of my life, I am somewhat familiar with this set of circumstances. There are ways to remediate the area so the runoff does not become a problem. However, after doing so, there is no way that section of land will support the weight of a stadium.

There are two things it will support. There first is a marsh. I would love to engage in the ³green hacks² to make it a saltwater marsh since they are so much more interesting than their freshwater counterparts. If done correctly, you could set up a section of the marsh to freeze over and create both indoor and outdoor skating opportunities.

I have to say that while I have gotten used to fishing in fresh water, my body really has not adjusted to swimming in it yet. The marsh becomes an excuse to get soaked and explore. Tourists love to explore.

The other thing tourists love to do is walk around. Tourists hate cars and really want to park them at the beginning of the vacation and not touch them until the end of the vacation. While downtown Utica is on the upswing, it does not have that tourist friendly walk around vibe yet. You can make the same comment about Varick Street everyone is very well aware how I feel about that one.

P. 2 <u>bobby@guahogsunited.com</u>

Imagine if next to the marsh, there was a petting zoo. However, not just any kind of petting zoo is deserving of such a spot. In 2015, Utica can feature a literal farm to table petting zoo.

So the tourists stay at a local hotel. They make their way over to Harbor Point. The kids explore the marsh and then head to the petting zoo. While the kids are getting all handsy with sheep and the like, the adults are at the cheese making factory watching Ricotta get made. Say ³baaaaa² with me.

Now here is the cool part. The parents can buy some Ricotta cheese on the way out which had its origin in the sheep the kids became friends with. They can take the Ricotta cheese to certain restaurants willing to take part in the literal farm to table program. The restaurants then use the Ricotta cheese, obviously the amounts and pricing alternates are worked out ahead of time as part of a marketing initiative, on the entrees the family eat that evening. From playing to watching to buying to eating together as a family what families really want. Who will forget making that memory??

I very much like the word picture in completion. Before we get there, you and your team have to make a few decisions. As Uticans, we count on you to be brave enough to walk away from bad judgments as your process develops. The days of the "Well, my cousin's plumber's girlfriend's librarian's bookie threw us a few bucks so we gotta keep it in² way of thinking have to come to an end if we are to advance as a community. You can repurpose the baseball stadium space to put us on the right path.

Thank you for your time and consideration.

Sincerely,

Robert T. Oliveira 763 Mary Street Utica, NY 315-765-9378 From: Watts, Beth E. (DOT) [mailto:Beth.Watts@dot.ny.gov]

Sent: Friday, September 25, 2015 3:42 PM

To: Brian Thomas

Cc: Papaleo, Jim (DOT); Hoffmann, Brian (DOT); Sassaman, Guy

Subject: SEQR Harbor Point DGEIS

Brian,

As requested, the New York State Department of Transportation (NYSDOT) has reviewed the Draft Generic Environmental Impact Statement (DGEIS) and associated documents related to the proposed Harbor Point Development. Upon review of the materials provided, the NYSDOT has the following comments:

- 1. Page 18 (Figure 1-4,Preferred Master Plan) The plan appears to not provide driveway access to Wells Ave for Delmonico¹s restaurant. At least one access point should be provided.
- 2. Page 20 Component 7.e. (Washington Street connectivity to Bagg¹s Square and the Aud.) is not reflected in Figure 1-4. A pedestrian bridge is mentioned in Section 1.4.2.
- 3. Page 27, Table 1.1 The NYSDOT contact person for any applicable Highway Work Permit is Ken Andela, Regional Permit Coordinator.
- 4. Page 105, Existing Conditions and Intersection Characteristics The existing conditions should be revised to reflect the reduction of lanes between Wells Ave and the John St./Broad St. Ramp as this section of Genesee Street was reduced to two southbound lanes as a result of the Fairfield Hotel traffic mitigation plan.
- 5. Page 115, Future Conditions A signal warrant analysis should be completed for the Genesee Street & 790/Thruway Ramp intersection as part of this project given the Level of Service drops.
- Page 116, Table 2.13 The future No-Build conditions should be shown. This would provide a clearer picture of traffic impacts due to development versus impacts due to background growth.
- 7. Page 124, Mitigation The Wells Ave signalized intersection proposal should be implemented only after the project has developed to a point when the intersecting approaches reach the warranting values. This should be defined in some detail in the DGEIS.

Thank you for the opportunity to comment.

Beth Watts, PE, PTOE

Planning & Program Management

NYSDOT - Region 2 207 Genesee Street, Utica, NY 13501 315.793.2451 | beth.watts@dot.ny.gov

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Permits, Region 6 207 Genesee Street, Utica, NY 13501-2885 P: (315)793-2554 F: (315) 793-2748 www.dec.ny.gov

October 16, 2015

Brian Thomas, Commissioner City of Utica, Dept. of Urban & Economic Development 1 Kennedy Plaza Utica, New York 13502

Project Name – City of Utica Harbor Point Redevelopment DGEIS comments

Dear Mr. Thomas,

The Department of Environmental Conservation (DEC) has received the above referenced submittal. We have circulated the draft document to our Natural Resources and Environmental Quality Staff and submit the following comments:

Flood Plain

In addition to the mitigation measures detailed in the document:

- > The project area regularly floods. An evacuation plan should be developed and implemented for all residential development areas.
- Critical structures and utilities should be located outside of the 0.02% (500-year) floodplain. If such development must occur within the 0.02% floodplain, it should be elevated or flood proofed to at least 0.02% flood elevation, preferably higher.
- New construction and substantial improvements to structures shall be constructed with methods, materials and utility equipment resistant to flood damage below the elevation equal to the base flood elevation plus 2 feet.

Hazardous Waste Remediation

The Harbor Point Site was remediated with a one-foot thick soil cover. Passive recreational fields require a one-foot thick soil cover. Active recreational fields require a two-foot thick soil cover, artificial turf or paving, due to anticipated increased soil contact. Therefore, the proposed ball fields and presumably the multi-use fields, which are an active recreational use, will require an enhancement to be acceptable.

The DGEIS should acknowledge that additional work (addition of cover) will be required in the areas of active recreation. Addition of a statement, such as "... artificial turf, or a two-foot thick cover of acceptable soil quality will be provided on the ball fields" would satisfy our concerns.



Details are provided in the attached guidance, DER-10 / Technical Guidance for Site Investigation and Remediation. Future review will be required to demonstrate that the proposed uses satisfy the Department's surface requirements identified in the guidance.

Natural Resources

- DEC has expressed interest in creating an additional access point to the Utica Marsh Wildlife Management Area (Marsh) by utilizing a portion of National Grid property near the South West corner of the ball fields. The basic concept would be to have public parking where people could use the Adirondack Scenic Railroad as a rail trail into the Marsh. DEC has discussed this concept with National Grid and Adirondack Rail staff multiple times. We have even met on-site to discuss challenges and issues to creating such access. Wildlife Biologist, Steven Heerkens, has also shared the idea with Utica Mayor, Robert Palmieri. Currently, the only access that exists for the Marsh is via the Canal Trail from North Genesee Street.
- A New York State Jurisdictional wetland exists post clean up. Creating a trail along with appropriate signage and kiosks at the edge of this area could provide a wonderful educational opportunity for wetlands information, historical information and the history of the cleanup itself.
- There does not appear to be a public boat launch. DEC has suggested this previously.
- Repairs to existing walls would be appropriate. If additional bank stabilization is required in the area no further hardening of the shoreline should occur. Instead, "Soft" methods of stabilization should be pursued including planting native, deep-rooting vegetation, as well as bioengineering. Proposed stabilization methods should always follow the natural contour of the shoreline.

Petroleum Bulk Storage

➤ If the Marina will include a fueling station Petroleum Bulk Storage permits/registrations will be required. This program is not presently included in Section 1.6 "Permits and Approvals" of the DGEIS.

Agency Permitting

During the build out of the area individual project permitting will be required at various points. Permits from the DEC potentially include but are not limited to:

- > Air
- > Hazardous Waste Remediation
- > Article 15 Protection of Waters
- > Article 24 Regulated Freshwater Wetlands
- > SPDES Construction Storm Water
- > Petroleum Bulk Storage Permits and/or Registration

Permits/ approvals will also likely be required from other Agencies such as the US Army Corps of Engineers, NYS Canal Corp, NYS DOT, as well as local permits such as a Local Flood Plain Development Permit.

Prior to bid/construction, DEC will need to review plans to confirm the regulatory requirements are met in all areas of past or present hazardous waste remediation projects, such as the addition of cover in the areas of active recreation.

For all DEC Permits/Authorizations please consider scheduling a pre-application meeting. To expedite any forthcoming permit application or technical review the DEC offers the following checklist of items to be considered when evaluating the need for additional permits:

General:

- ☑ A brief engineering report must be included in the submission
- ☑ At least two (2) complete sets of plans (including a site location map on the cover page)
- ☑ SEQRA determination: Full EAF signed by the designated lead agency (e.g., municipal authority)
- ☑ Subdivision plans signed and stamped by a New York State licensed P.E. or R. A.
- ☑ Plat plan signed and stamped by a New York State licensed Land Surveyor
- ☑ NYSDEC and/or Local authority wetlands determination shown on plans (if necessary)
- ☑ NYSDEC and/or Local authority wetlands disturbance permit (if necessary)
- ☑ All metes & bounds, easements and right-of-ways shown on plans
- ☑ Topographic features shown on plans (e.g., site contours, flood plains, water bodies, rock outcropping, etc.)

Public Sewage (if applicable):

- ☑ Sewer and storm water plans submitted to NYSDEC for review
- ☑ Letter from the sewer service provider stating their ability and willingness to service the subdivision
- ☑ Should this project include a connection to a combined sewer system (CSS), the lead agency will need to consider the potential impacts of this connection as it evaluates the environmental impacts of the project during the SEQR process.
 - During wet weather events (e.g., rainfall or snowmelt), the combined volumes of wastewater and stormwater runoff entering a CSS may exceed the system's capacity. Most CSS are designed to discharge excess capacity to surface waters such as streams or rivers. These discharges are known as combined sewer overflows (CSO).
 - > Because CSO's contain untreated wastewater and stormwater, they contribute microbial pathogens and other pollutants to surface waters, which may impact the environment and human health.

SPDES General Permit for Construction Activity (GP-0-10-001)

- ☑ The developer is required to apply for coverage under the DEC's Stormwater program prior to starting construction.
- ☑ Submit Notice of Intent to Discharge (GP-0-10-001)
- ☑ Stormwater Pollution Prevention Plan is required.
- ☑ If you anticipate disturbing five or more acres of soil, you will need written authorization from the Regional Water Engineer.

Floodplain Development:

The developer must indicate whether any part of the project is located within a floodplain or regulated floodway.

- ☑ It appears your project may be a flood hazard area. Please contact your municipal flood plan administrator
- ☑ Federal Insurance rate map (FIRM) Required.
- ☑ Base Flood elevation Certificate Required
- ☑ Elevation Certificate is recommended.

Petroleum/Chemical Bulk Storage (if applicable)

A PBS Registration could be required. The applicant is not required to obtain registration prior to construction However, the registration must be in place prior to placement of product in tank.

Air Emissions (if applicable):

- ☑ Description of all combustion (heat) sources including size in MMBTU/hr., the fuel used and if they will be used for general heat, process heat, or both.
- ☑ Description of all process sources that have any air emission from the process, particularly, if there is a stack that exits the building. This includes sources that would possibly be considered exempt or trivial from permitting under 6 NYCRR Part 201-3. Please note:
 - Generators used for construction which are liquid or gaseous fuel powered with a maximum
 mechanical power rating of less than 400 brake horsepower or are gasoline powered and have a
 maximum mechanical power rating of less than 50 brake horsepower are exempt from
 permitting. This exemption may not apply when multiple generators are employed and the
 combined sources may exceed a major emission threshold.
 - If the generators used for construction are a Temporary Emission Source that is transient in nature and will only be operated at a facility for a single period of less than 90 consecutive days (commencing from the first day of operation), they are classified as exempt from permitting.
 - Generators used for emergency backup may only operate less than 500 hours per year to remain exempt from permitting.
 - All engines that operate generators must meet the EPA requirement of 40 CFR 63 Subpart ZZZZ.

Archeological and Cultural Impacts:

☐ The office of Parks, Recreation and Historical Preservation Cultural Resources (OPRHP) maps should be reviewed for any project that will be classified as Major under Uniform Procedures Regulations 6 NYCRR Part 621. Before any project within a mapped archeological or historic site may be called complete, consultation with OPRHP must take place.

Freshwater Wetlands and Article 15 Classified Water Courses:

- If there is either Federal or State regulated wetlands in the project area, they must be delineated and shown on the plat plan. DEC may provide delineation services for DEC regulated wetlands. Call the Utica DEC offices at (315) 793-2404 for assistance. For extremely large projects, the applicant may be required to hire a wetlands consultant for delineation services.
- ☑ All water courses must be depicted on the plat plan.
- ☑ Any impact to DEC regulated freshwater wetlands, the 100-foot adjacent area of any mapped wetland or regulated stream will require a Joint Application for Permit, Short or Long Environmental Assessment Form (depending on scope of impact), location map and construction detail drawings depicting impact.

NY Natural Heritage Program:

The NY Natural Heritage Program element occurrence database indicates there are one or more Listed Species on or in close proximity to the project site (a "Hit"). A permit may be required by the DEC for any proposed action that could result in a "take", which includes, but is not limited to, direct mortality, adverse modification, degradation or destruction of occupied habitat of any Listed Species. It is recommended that a professional familiar with the identification of the species — see below — undertake a survey and determine if the proposed project contains habitats with would favor these species. In some circumstances, DEC staff may want to make a site visit for additional evaluation. A field survey would be needed to determine if the species is actually present. If populations of the endangered or threatened species are found to be in the project area, project modifications should be considered to avoid or minimize impact. The NYS Natural Heritage Program databases do not include Federally-listed or proposed endangered or threatened species. For this information, we suggest that you contact the U.S. Department of the Interior Fish & Wildlife Service by calling (607) 753-9334.

Sincerely,

Terry Tyoe

Environmental Analyst 2

NYSDEC - Utica

Attachment: DEC DER-10

cc: file

ecc: S. Heerkens, Wildlife, Utica

M. Walter, Habitat, Utica

R. Coriale, DOW, Utica A. Ash, DOW, Utica

D. Erway, Fisheries, Utica

F. Munk, NR, Watertown

G. Townsend, EQ, Watertown

L. Ambeau, Permits, Watertown

J. Spellman, DER, Albany

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DER-10 / Technical Guidance for Site Investigation and Remediation

New York State Department of Environmental Conservation

DEC Program Policy

Issuing Authority: Val Washington

Title: Deputy Commissioner,
Office of Remediation and Materials Management

Date Issued: May 3, 2010

Latest Date Revised:

- I. Summary: This guidance provides an overview of the site investigation and remediation process for the New York State Department of Environmental Conservation (DEC) remedial programs administered by the Division of Environmental Remediation (DER). These include the Inactive Hazardous Waste Disposal Site Remedial Program, known as the State Superfund Program (SSF); Brownfield Cleanup Program (BCP); Environmental Restoration Program (ERP); and Voluntary Cleanup Program (VCP); and certain petroleum releases.
- II. Policy: DER administers the SSF, BCP, ERP, VCP and Bulk Storage Programs and provides response to releases of petroleum. This guidance assists the user in developing and implementing investigation and remediation projects involving contaminated sites under these programs administered by DER. It is a separate document of the requirements for a remedial program set forth in statute and regulation, as well as in guidance. It reflects DER's experience and knowledge in developing and managing the various programs for the past 25 years.
- III. Purpose and Background: This guidance provides the scope of activities needed to satisfy minimum requirements for the life-cycle of the site-specific remedial program under the SSF, BCP, ERP, and VCP, and for certain petroleum releases. It facilitates consistent, accurate, efficient and timely completion of remedial projects. It also contains the minimum technical activities DEC will generally accept for projects where DER oversight, approval or acceptance is sought or mandated by law.

DER will, however, determine the acceptable minimum technical activities for a particular site upon consideration of all the facts and circumstances of such site under the authority of applicable laws and regulations. No provision of this guidance document should be construed to limit DER's authority to require additional investigation and/or remediation based upon site-specific conditions. Sections 1.1 and 1.2 present the scope and applicability of this guidance document in more detail.

No provisions of this guidance, however, should be construed to alter the requirements of the Navigation Law or Environmental Conservation Law, or any regulation or order or permit having the force of law. This guidance does not replace or supersede protocols established for emergency spill response actions, emergency drum removal actions, and other such events requiring immediate responses and follow-up. In such time-critical situations, existing guidance established pursuant to applicable emergency response laws, regulations and policy, and directives of the on-scene DEC Spill Responder or Project Manager must be followed.

requirements of subdivision 5.8(b)-(d) should be prepared for each non-emergency IRM undertaken, with the exception of those identified in paragraph (b)2 above. IRMs with no CCR will need to be documented in the FER prepared for the site.

- 4. Non-emergency IRMs should include the applicable citizen participation requirements for the program under which the IRM is undertaken.
- (d) Accelerated remediation is encouraged as an IRM subject to DER approval. IRMs are advanced pursuant to section 1.11 and may be conducted concurrently with sampling to delineate the contamination and to confirm contaminant removal.

1.12 Use of a Site

- DER's preference is to achieve a permanent cleanup of a contaminated site, including application of the unrestricted soil SCGs and restoration of groundwater to its classified use, resulting in no future land use restrictions. However, it is realized that achieving this goal is not required by some programs, nor will it always be feasible or practical, in the remedial programs identified in subdivisions 1.2 (a) and (b). Accordingly, the use of a site, or portion of a site, can be either unrestricted use or restricted use as set forth in 6 NYCRR 375-1.8(g).
 - 1. In developing a remedial program for a site the remedial party will:
 - i. first define the nature and extent of contamination through the RI; and
- consider use scenarios set forth in this section in developing a remedy consistent with the remedy selection provisions and limitations for the various remedial programs as set forth in Chapter 4.
- 2. Unrestricted use. A site designated for unrestricted use is a site subject to no imposed institutional or engineering controls, such as an environmental easement or deed restriction.
- 3. Restricted use. A site designated for restricted use is a site subject to imposed restrictions on its use, in the form of institutional or engineering controls, to manage exposure to remaining contamination at the site. DER recognizes four categories of restricted land use, from least restrictive to most restrictive as shown below:

residential:

Least Restrictive Use

restricted residential;

iii. commercial; and

Most Restrictive Use

- iv. industrial.
- (b) Categories of restricted use. The four categories of restricted use detailed in this subdivision require, at a minimum, institutional controls (e.g., environmental easement, deed restriction) in accordance with section 5.6.
- 1. Residential. The residential use category allows a site to be used for any use(s) other than producing animal products for human consumption. Residential use is the land use category intended for single family housing and requires the fewest restrictions on the use of the site. The residential use

Final DER-10 Page 36 of 226 May 2010 category:

- i. does not allow for the use of a SMP or other institutional or engineering controls to manage any remaining soil contamination on the site, although engineering controls without an institutional control, may be used to address:
 - (1) on-site soil vapor intrusion; or
 - (2) off-site impacts to other media attributable to site soil; and
 - ii. allows only two restrictions on the use of the site:
 - (1) a groundwater use restriction; and/or
 - (2) a prohibition against producing animal products for human consumption; and
- iii. will require an environmental easement or deed restriction, except when the remedial program achieves the residential use soil cleanup objectives (SCOs) set forth at 6 NYCRR 375-6.8 to a depth of fifteen feet below the developed ground surface or to bedrock, if shallower. This will only apply, where DER determines that the:
 - (1) protection of ecological resources SCOs are not applicable;
- (2) groundwater beneath the site is not contaminated above standards, or if there is a groundwater concern, there is a municipal prohibition on the extraction of groundwater for potable purposes; and
- (3) property will not be used for producing animal products for human consumption, either by:
 - (A) an existing restriction on such use; or
 - (B) by the site's location in an area which precludes such use.
- 2. Restricted residential. The restricted residential use category allows a site to be used for residential use but only when there is common ownership or control by a single owner/managing entity of the site. Restricted residential use is the land use category intended for apartments, condominium, cooperative or other multi-family/common property control residential development. The restricted residential use category:
- i. requires, in addition to the restrictions in 1.ii above, at a minimum the following additional restrictions on the use of the site:
- (1) a prohibition on vegetable gardens on the site, unless planted in gardens where the soil achieves the residential use soil cleanup objectives; and
 - (2) a prohibition of single-family housing;
- ii. requires a SMP to manage remaining contamination and institutional/ engineering controls at the site;
 - iii. is the appropriate use category for the following site uses:
 - (1) day care or other child care facilities;
 - (2) elementary or secondary schools; or

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(3) college or boarding school residential buildings; and iv. allows for active recreational uses, which includes recreational activities with a reasonable potential for soil contact, such as: note active recreational lexamples in this residential designated picnic areas; (1)subsection (2) playgrounds; or (3) natural grass sports playing fields, including surrounding unpaved spectator areas. 3. Commercial. The commercial use category anticipates use by businesses with the primary purpose of buying, selling or trading of merchandise or services. The commercial use category: restricts the use to commercial activities including the buying and/or selling of goods or services, or other uses identified in subparagraph iii below; requires a SMP to manage remaining soil contamination and institutional/ engineering controls at the site; The Harbor Point Peninsula was is the appropriate use category for the following site uses: remediated to commercial use health care facilities, including hospitals, clinics etc.; or college academic and administrative facilities; and allows for passive recreational, which includes recreational uses with limited potential for soil contact, such as: artificial surface fields: (1)outdoor tennis or basketball courts: other paved recreational facilities used for roller hockey, roller skating, shuffle board, etc.; outdoor pools; (4) indoor sports or recreational facilities; (5) golf courses; and (6) paved (raised) bike or walking paths. (7)Industrial. The industrial use category anticipates use for the primary purpose of manufacturing, production, fabrication or assembly processes and ancillary services. The industrial use category: allows the use of the site only for industrial purposes with access to the site limited

iii. requires a SMP to manage remaining soil contamination and institutional/engineering controls at the site.

includes all of the restrictions set forth in subparagraph 2.i, above; and

Final DER-10
Technical Guidance for Site Investigation and Remediation

to workers or occasional visitors;

ii.

Land-use exposure assessment. Site use categories are based on use-based exposure assessments to soil that will remain at a site and were developed pursuant to ECL 27-1415(6)(b). These exposure assessments were developed using a number of exposure scenarios which evaluated various receptors, all of which are presented and discussed in detail in the Technical Support Document as defined at 6 NYCRR 375-6.2(b). The use-based soil cleanup objectives (SCOs) for the protection of public health were developed based upon these scenarios. A summary of the receptors and pathways considered in these exposure scenarios, which are the basis of the protection of human health soil cleanup objectives for each of the unrestricted and restricted use categories set forth in subdivisions (a) and (b) above, are summarized in Table 1.12 below.

				n of Public Healt	
Use Category	Unrestricted	Residential	Restricted Residential	Commercial	Industrial
Exposed Person	Adult & Child	Adult & Child	Adult & Child	Adult & Child	Adult & Adolescent
Route of Exposure					
Incidental Soil Ingestion	V	V	~	V	V
Inhalation of Soil	V	<i>'</i>	~	~	V
Dermal Contact with Soil	~	V	~	~	~
Homegrown Vegetable Consumption	V	V			
Producing animal products for human consumption	~				
Groundwater Protection	~	Consider per 375-6.5	Consider per 375-6.5	Consider per 375-6.5	Consider pe 375-6.5
Ecological Resource Protection	~	Consider per 375-6.6	Consider per 375-6.6	Consider per 375-6.6	Consider pe 375-6.6

1. A check mark in the box indicates the person considered (e.g., child, adult) by category and route of exposure were included in the evaluation to determine the SCO for each use category. For example, the restricted residential exposure does not have the boxes for "Homegrown Vegetable Consumption" or "Raising of Livestock" checked, accordingly these activities are not allowed in the restricted categories.

Page 39 of 226 Final DER-10 May 2010 2. When groundwater or ecological resources are impacted by soil contamination at a site, the SCOs for the protection of groundwater or ecological resources will apply, respectively per 6 NYCRR 375-6.5 or 6 NYCRR 375-6.6. Since the unrestricted use SCO already has accounted for both protection of groundwater and ecological resources, the box is checked and there is no need to consider their applicability.

1.13 Standards, Criteria and Guidance

- (a) Applicability. The standards, criteria and guidance (SCGs) discussed in this section are intended to apply to the remedial program, unless good cause exists why conformity with particular SCGs should be dispensed with.
- 1. An index to potentially applicable New York State SCGs is provided on DEC's website identified in the table of contents, which lists some of the SCGs potentially applicable to site investigation and remediation activities conducted in New York State. This list is neither meant to be comprehensive nor to imply that all of the listed SCGs are appropriate for every investigation or remediation conducted.
- 2. The remedial party must also comply with other federal and local SCGs, if applicable to the site, which are also identified on the website SCG page.
- (b) SCG description. SCGs as defined at paragraph 1.3(b) 71, are promulgated requirements and non-promulgated guidance which guide site activities during investigation and remediation.
- 1. Standards and criteria are set forth in Federal or New York State law. They are cleanup standards, standards of control, and other substantive environmental protection requirements, criteria, or limitations which are generally applicable, consistently applied and officially promulgated under federal or State law that are either directly applicable or relevant and appropriate to a contaminant, remedial action, location, or other circumstance.
- 2. Guidance includes non-promulgated criteria which should be considered, for investigation and/or remediation.

1.14 Sustainability and Green Remediation

- (a) Role of green remediation in remedial programs. Green remediation seeks to minimize ancillary environmental impacts such as green house gas emissions (GHGs) from remedial programs. Applying green remediation concepts, such as minimizing energy consumption, maximizing the reuse of land and the recycling of materials, and conserving natural resources helps to achieve that objective.
- 1. Green remediation concepts will be applied to the cleanup of contaminated properties such that the remedies are protective of public health and the environment, economically sound, and as sustainable as possible.
- 2. Green remediation is not intended to encourage, and does not justify, implementation of a "no action" or lesser remedy when a more comprehensive remedy is called for, appropriate, and feasible.
 - 3. Consistent with existing laws and regulations, consideration of green remediation

From: <Klenkel>, "Laurie E (PARKS)" <Laurie.Klenkel@parks.ny.gov>

Date: Thursday, November 12, 2015 at 11:09 AM

To: Lisa Nagle < !nagle@elanpd.com">!nagle@elanpd.com, "birchwoodarch@yahoo.com" < birchwoodarch@yahoo.com

Cc: Steve Eckler <steve.eckler@obg.com>, Paul Romano <paul.romano@obg.com>

Subject: RE: 15PR06038 Utica Harbor Redevelopment Project

Hello Lisa-

Thanks so much for addressing our request for additional information. Unfortunately, we don't have the ability to access drop box. If you wouldn't mind, you could do one of 2 things:

- 1. Mail a CD to the address below, to my attention.
- 2. If the file is smaller than 30MB's you can uploaded it directly to our online data base, called CRIS. Here are the instructions to do so; you'll need this project number 15PR06038 and your email address.

Go to www.nysparks.com/shpo/online-tools/. Once on the CRIS site, log in as a guest and choose "submit" at the very top menu. Next choose "submit new information for an existing project." Here's where you enter the project number noted above and your e-mail address. For help: use the "Contact Us" and "Help" functions in the upper right hand corner of the screen. You can also email crishelp@parks.ny.gov for help. More Help: you may find more information about submitting projects electronically at the "Submitting a New Consultation Project" section of the CRIS online help system https://cris.parks.ny.gov/CRISHELP/topics/idh-topic120.htm or by viewing a 10-minute video walkthrough of the consultation submission process at https://youtu.be/6nP Wypr2mw.

Please let me know if you have any questions; I look forward to reviewing your project.

Very truly, Laurie

Laurie Klenkel

Historic Sites Restoration Coordinator Technical Preservation Services Bureau

New York State Parks, Recreation & Historic Preservation

Division for Historic Preservation
Peebles Island State Park
P.O. Box 189
Waterford, New York 12188-1089
PH 518.268.2170 | laurie.klenkel@parks.ny.gov
www.nysparks.com/shpo

From: Lisa Nagle [mailto:LNagle@elanpd.com]
Sent: Wednesday, November 11, 2015 9:40 AM

To: Birchwood Archaeological Svcs; Klenkel, Laurie E (PARKS)

Cc: Steve Eckler; Paul Romano

Subject: Re: 15PR06038 Utica Harbor Redevelopment Project

Hi Laurie,

We have completed a DGEIS and are in the final stages of preparing a FGEIS. Here is a link to the GEIS document which contains the information you requested from Dave. If you need further information please feel free to contact me.

If this link does not work just let me know and we can send you a

CD. https://www.dropbox.com/sh/g8596p3xyvzt35m/AAC7ENxL9fHxPbGW8pMjZcewa?dl=0

Thank you.

Laurie Klenkel

Historic Sites Restoration Coordinator Technical Preservation Services Bureau

New York State Parks, Recreation & Historic Preservation

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ANDREW M. CUOMO

ROSE HARVEY

Governor

Commissioner

November 30, 2015

Ms. Lisa Nagel, Principal Elan Planning, Design & Landscape Architecture 18 Division Street, Studio 304 Saratoga Springs, NY 12866

Re: DEC

Utica Harbor Redevelopment City of Utica, Oneida County

15PR06038

Dear Ms. Nagel:

Thank you for providing the additional information as requested by the Division for Historic Preservation of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have received the electronic copy of the City of Utica's SEQRA Draft Environmental Impact Statement and are in the process of reviewing the materials in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the Division for Historic Preservation and relate only to Historic/Cultural resources.

This new information provided negates our previous letter of November 9, 2015. We note on page 147 of the DEIS document, it is stated: "The UHLDC and the City of Utica are coordinating development activities with SHPO. These efforts are focused on the development of a LOR between the New York State and the City of Utica, which will guide Master Plan Activities within the APE to minimize and mitigate potential impacts to the Historic District."

We look forward to continuing to consult with you regarding the specifics of this project. When available we would appreciate additional correspondence be provided via our Cultural Resource Information System (CRIS) at www.nysparks.com/shpo/online-tools/. Once on the CRIS site, you can log in as a guest and choose "submit" at the very top menu. Next choose "submit new information for an existing project." You will need this project number and your e-mail address. If you have any questions, I can be reached at (518) 268-2180.

Sincerely,

Laurie E. Klenkel

Historic Site Restoration Coordinator e-mail: Laurie.Klenkel@parks.ny.gov

via e-mail only

Steve Eckler

From: Klenkel, Laurie E (PARKS) <Laurie.Klenkel@parks.ny.gov>

Sent: Tuesday, December 01, 2015 9:35 AM **To:** Birchwood Archaeological Svcs; Lisa Nagle

Cc: Steve Eckler; Paul Romano; Susan Rivers; Perazio, Philip (PARKS)

Subject: RE: 15PR06038 Utica Harbor Redevelopment Project

Attachments: 15PR06038 Utica Harbor Redevelopment ADDTL COMMENTS 11-30-15.pdf;

SAMPLE DRAFT LOR from SHPO.pdf

Hello Everyone—

I just prepared this letter, attached, to update you on the technical review of the DEIS (CD sent November 12, 2015). But now that you've updated me with this email before sending this letter, I'll give you a briefing here:

On page 147 of the DEIS document, it is stated: "The UHLDC and the City of Utica are coordinating development activities with SHPO. These efforts are focused on the development of a LOR between the New York State and the City of Utica, which will guide Master Plan Activities within the APE to minimize and mitigate potential impacts to the Historic District."

And stated in Change Order 12.1.15: "Birchwood Archaeological Services will prepare a historic structure report for two structures located within the Utica Harbor a warehouse constructed in 1917 and a machine shop dating to 1933. This work has been conducted at the request of the New York State Office of Parks, Recreation and Historic Preservation (NYSOPRHP)."

I am not aware that the preparation of a LOR has been initiated, or that SHPO has requested the preparation of an HSR for these resources. Please provide clarification on this if available, otherwise the next step should be the preparation of a LOR to mitigate project impacts. A sample LOR is attached for your reference.

Please note that our archeology staff has not reviewed this project yet and a determination of impact cannot be provided until after their review. Archeological comments will be sent in a separate letter.

I'm happy to help with the preparation of the LOR, or answer any questions you may have.

Very truly, Laurie

Laurie Klenkel

Historic Sites Restoration Coordinator Technical Preservation Services Bureau

New York State Parks, Recreation & Historic Preservation

Division for Historic Preservation
Peebles Island State Park
P.O. Box 189
Waterford, New York 12188-1089
PH 518.268.2170 | laurie.klenkel@parks.ny.gov
www.nysparks.com/shpo

From: Birchwood Archaeological Svcs [mailto:birchwoodarch@yahoo.com]

Sent: Tuesday, December 01, 2015 1:06 AM **To:** Lisa Nagle; Klenkel, Laurie E (PARKS)

LETTER OF RESOLUTION AMONG

NEW YORK STATE OFFICE OF PARKS, RECREATION & HISTORIC PRESERVATION NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION AND

LUTHER FOREST TECHNOLOGY PARK REGARDING THE REMOVAL OF X STRUCTURES 15PR00789

WHEREAS, the site changes proposed by the Luther Forest Technology Park ("Sponsor") will require a xxx permit by the New York State Department of Environmental Conservation (NYSDEC); and

WHEREAS, the NYSDEC has consulted with the New York State Office of Parks, Recreation, and Historic Preservation (OPRHP), in accordance with the Section 14.09 of the New York State Parks, Recreation, and Historic Preservation Act of 1980 and 9 NYCRR §428, and

WHEREAS, OPRHP has determined that the former Malta Rocket Test Station is eligible for inclusion in the State and National Registers of Historic Places, and

WHEREAS, the Sponsor is proposing to reuse a 2+ acre portion of the Tech Park campus for on-site construction worker training and parking, and

WHEREAS, this new use will require the removal of several buildings and structures which have been determined to contribute to the significance of the former Malta Rocket Test Station Historic District including following: No. 9 (Pump Assembly), No. 9 (Underground Shafts 1 & 2), No. 29 (Igniter Storage), No. 29A (Black Power Storage), No. 29B (Igniter Storage and No. 29C (Squib Storage), and

WHEREAS, OPRHP has consulted with representatives of the New York Department of Environmental Conservation (DEC) who are involved with the Project through a required permit in accordance with Section 14.09 implementing regulations of the New York State Parks, Recreation and Historic Preservation Law.

NOW, THEREFORE, the OPRHP, DEC and Sponsor agree that the Project shall be implemented in accordance with the following stipulations in order to take into account the impact of the undertaking on historic properties.

STIPULATIONS

The New York State Department of Environmental Conservation and the Sponsor will ensure that the following measures are carried out:

Structure Documentation Requirements (final product: 2 original, printed, hard copies)
The structures listed above are to have their current conditions documented using the following format:

Photographs

Photographs submitted as documentation should be clear, well-composed, and provide an accurate visual representation of the property and its significant features. Submit as many photographs as needed to depict the current condition and significant features of the property.

• Digital photographs should be taken using a ten (10) mega pixel or greater digital SLR camera.

- Images should be saved in Tag Image File format (TIFF) or RAW format images. This allows for the best image resolution. RGB color digital TIFFs are preferred.
- Selected images for documentation package should be printed as follows: 1-3, 8 by 10 inch views of the overall facility. Sufficient 5 by 7 inch additional images to fully document the present condition of all elevations the facility (several interior images representing open spaces as well as representative images of typical rooms).
- Several historic images (if available) depicting the facility should be reprinted at the 5 by
 7 inch size and included in the documentation.
- Images should be printed on a high quality color printer on compatible high quality photographic paper stock (HP printer use HP Paper, Epson printer use Epson paper)
- Each photograph must be numbered and that number must correspond to the photograph number on a photo log or key. For simplicity, the name of the photographer, photo date, etc. may be listed once on the photograph log and doesn't need to be labeled on every photograph.
- Write the label information within the white margin on the front of the photograph using an archival photo labeling pen. Label information can also be generated by computer and printed directly in the white margin (no adhesive labels).
- Do not print information on the actual image use only the photo margin or back of the photograph for labeling.
- At a minimum, photographic labels must include the following information: Photograph number, Name of the Property, County, and State.
- Photos should be placed in archival quality photo sleeves. Two (2) sets of images should be produced.

Historic Narrative

A brief narrative history pertaining to development and construction of the Malta Test Rocket Test Station property should be provided. Historic period documentation, *if available*, should also be included.

Plans/Drawings

Copies of construction plans, *if available*, should be reproduced and included in the documentation package.

CD Copy

The final report (including images and a PDF version of the Historic Narrative) should be saved on digital media (CD, DVD, or USB thumb drive) and included with each of the two final bound documentation packages.

Report

Two original printed, hard copies of the report are requested: one copy of the report should be mailed to OPRHP, Division for Historic Preservation, P.O. Box 189, Waterford, NY, 12188 for forwarding to the State Archives and another copy of the report should be sent to an appropriate local repository such as a historical society or library. Completed reports are to be submitted no late than *six months* after demolition begins.

EXECUTION AND IMPLEMENTATION of this Letter of Resolution evidences that DEC and the Sponsor have satisfied Section 14.09 responsibilities.

New York State Department of Environmental Conservation	
Charles E. Vandrei, Agency Preservation Officer	Date:
New York Office of Parks, Recreation and Historic Preservation	
Ruth L. Pierpont, Deputy Commissioner for Historic Preservation/Deputy S	Date: SHPO
Luther Forest Technology Park	
Name:	Oate:

State Environmental Quality Review Act (SEQRA) Final Generic Environmental Impact Statement

CITY OF UTICA – HARBOR POINT REDEVELOPMENT Utica, New York

Appendix B
Public Hearing Transcript

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 3
                          UTICA HARBOR POINT
 4
                      MASTER PLAN IMPLEMENTATION
 5
                        DRAFT GEIS PRESENTATION
 6
 7
 8
                     Tuesday, September 15, 2015
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11
      HELD AT:
                        North Utica Community Center
                        50 Riverside Drive
12
                        Utica, New York
13
14
      COMMENCING AT: 6:00 p.m.
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17
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19
      REPORTED BY:
                      Nora B. Lamica
                        Court Reporter/Notary Public
20
21
22
23
24
```

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1
      PRESENT:
 2
     Lisa Nagle, Principal
     ELAN Planning, Design, Landscape Architecture, PLLC
 3
      18 Division Street, Suite 304
      Saratoga Springs, New York 12866
 4
      Steven M. Eckler, Senior Managing Scientist
 5
     O'Brien & Gere
      333 West Washington Street
 6
      PO Box 4873
      Syracuse, New York 13221
 7
      Paul D. Romano, P.E., Project Manager
 8
     O'Brien & Gere
     101 First Street, 4th Floor
 9
     Utica, New York 13501
10
     Mayor Robert Palmieri
     City of Utica
11
     One Kennedy Plaza
     Utica, New York 13502
12
     Brian Thomas, Commissioner
13
     City of Utica
     Department of Urban and Economic Development
14
      1 Kennedy Plaza
     Utica, New York
                      13502
15
     Vin Gilroy, Chairman
     Utica Harbor Development LDC
16
      258 Genesee Street
17
     Utica, New York 13502
18
     Allison Damiano-DeTraglia,
     Vice President/Account Services
19
     The Paige Group
      258 Genesee Street, Suite 204
20
     Utica, New York 13502
21
     Catherine Manion,
     Public and Media Relations Manager
22
     The Paige Group
     258 Genesee Street, Suite 204
23
     Utica, New York 13502
24
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1
      Also Present:
 2
      Gene Allen
      Mary Beth Allen
 3
      Ed Bucciero
      Howard Bushinger
 4
      Barb Cremer
      Frank Dragotto
 5
      RoseAnn Givertino
      Emil Hrycan
 6
      Beth Irons
      Doug Joslin
 7
      Della Krol
      Chris Lawrence
 8
      Jack LoMedico
      Joan Majinski
 9
      Jared Malenewski
      Richard Mas
10
      Mark Mojave
      Emil Paparella
11
      Paul Risley
      Tom Sanno
      Fred Sokolowski
12
      Robert Steffensen
13
      Samantha Testa
      Tim Trent
      Brett Truett
14
      Daniel VanDyne
15
      Lucille Vincent
      Ron Vincent
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      Ed "Butch" Waszkiewicz
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PROCEEDINGS

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MR. GILROY: I'm Vin Gilroy. I'm the

Chairman of the Harbor Development Corporation.

We were here a few months ago, I think it was

October, and gave a little presentation on some of

our plans and some of the stuff we've been working

on. If you saw the press this weekend, we got

some great press - thank you very much - on the

positive things that are going on down there and

some of the ideas we have.

We have Lisa Nagle from Elan here, who is going to give you the specifics, because I don't know them as well as she does. And if we could let her get through her presentation, and then we'll open the floor up for questions and see where we go from here, all right? Thank you.

MS. NAGLE: Thanks, Vin. Good evening, everyone. How is everybody doing? I didn't know if we would get a crowd, it's so nice outside.

 $\label{thm:could} \mbox{UNIDENTIFIED SPEAKER:} \ \mbox{We could go outside}$ and sit.

MS. NAGLE: Oh, that would be great. It's a wonderful day after such a hot summer.

So my name is Lisa Nagle, and I'm with Elan Planning and Design, and I hail from Saratoga Springs. I've been working with the City of Utica on this project since 2013. I just want to introduce -- because I'm not doing this alone. It's a big project. I have a great team of folks over here helping work with us.

We have Brian Thomas from the City Community Economic Development Office. He's going to become critical later, because you could submit your comments on this document until September 28th to his office, and I'll go over that. So Brian becomes an important person if you want to submit comments.

We have Paul Romano and Steve Eckler from O'Brien & Gere. Paul is an engineer, and Steve and I will be tag-teaming, doing this planning related work.

And then we have -- over at the table we have The Paige Group. We have Allison Damiano-DeTraglia and Cat --

MS. MANION: Manion.

MS. NAGLE: I can never pronounce your last name, but The Paige Group is helping organize all

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of this. I don't know if anybody saw the TV clips or the article from the O-D. We have the O-D here. We were trying to get the word out to get as many people here as we could, and it seemingly worked, so we're happy about that.

So what I'd like to do is go through a brief presentation. As Vin said, if you would permit me to walk through it, we're going to have plenty of time at the end for some discussion.

I'm going to talk about why we're here. For those of you who are not familiar with the project, I'm going to go over a little bit of the background so you can see what -- the project overview.

I'm going to talk about the SEQR process, so this is your first acronym - I promise I won't use that many acronyms - but it means the State Environmental Quality Review Act, SEQR, S-E-Q-R. This is a tool that New York State provides for the evaluation of larger projects, of which this is a large project. And I'm going to explain why we use this tool in this project in just a moment.

I'm going to tell you what we learned. I'm going to summarize it. And then we'll talk about

what the next steps are so you can see what's forthcoming.

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We have a sign-in sheet, and we ask that everybody sign-in. The Paige Group is our publicist in getting information out. We did provide a brochure. Make sure everybody gets one. And in it, I'm going to be walking through these orange boxes when I get to those slides. It's going to be a summary of the document that we put together. It describes this process. basically going to summarize a lot of this brochure.

is in the lower left-hand corner, which is the website for the project. So all the material you're going to see today is on this website. We have, also, some historic photos and a historic article that was written by not only our engineer, but our resident historian, Paul Romano. Very interesting read if any of you wonder how the harbor got to Utica in the first place, some background on that, pictures of the plans that

The most important thing about this brochure you're going to see. Everything is on that website. And we're also going to take comments on that document at this website. I'll go over this again at the end, but I just wanted to make sure that you have a brochure.

So as we get started, what I'm going to be summarizing is what we call a Generic Environmental Impact Statement, which it's this. It's about 180 pages, and these are the appendices on all the special studies that we did. So I'm going to attempt to summarize a lot of information for you, and then take some comments at the end.

So what's the purpose of tonight's meeting?

It's to review this document with you, which you'll be able to follow along in the presentation. There are index cards also at the table, so if you have questions or comments that you want to write down to return back to us, we'll do that. I'm going to give one caveat. We're going to try to answer questions as we can. The purpose of tonight's meeting is to really take comments. It is a public hearing. It's to receive questions and comments from you.

We have a stenographer with us, a court stenographer, who is going to be recording everything that everybody says.

We're going to go away, largely Steve and I, and answer all of those questions and comments.

So you will get an answer, but you may not get it tonight, because it may be something we need to do some further research and confer about. So I don't want you to think I'm ignoring you. I just want to put that caveat out there. So we'll answer sort-of the easier questions, if you will. Even if we answer it, you're still going into the document of recorded questions and comments.

If you -- you have until September 28th to submit comments, so you can do that through the website or to Brian's office, or if you don't want to comment tonight, just simply write something down. You can take a card, an index card, and write your question and comments down and then return it back to Brian's office or drop it tonight to either Allison or Cat.

MR. ECKLER: I just want to add. For people that are filling out those cards, it would be very helpful if you put your name and your affiliation with an agency, or if you're just here as a member of the public. We would like to have that information.

MS. NAGLE: I just noticed we have two City Council representatives, who are also sitting on the Local Development Corporation Board with us, Sam and Ed. Thanks for coming. I just wanted to recognize them.

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So let's talk about how this project got started. In 2008, then Governor Paterson created legislation that would transfer approximately about 33 acres to the City of Utica.

I'll just orient you to this map. Here is the Mohawk River. Here is the Erie Canal. So the Thruway interchange would be right about here, Aqua Vino is here. As we come down Genesee Street, now many of these buildings are gone so you can kind-of -- you can almost see the harbor, where before you couldn't because those buildings were still there. But there's a sort-of spatula-shaped harbor that was created, and the area shaded in the lighter yellow is the lands that are set to be transferred to the City of Utica.

The City of Utica setup, then, a Utica Harbor Local Development Corporation, which Vin Gilroy is the Chairman. Sam and Ed sit on the LDC, as well,

and they're the ones -- we're working with the LDC to do this project. So when the land is transferred, it actually goes to the Local Development Corporation.

This project idea came from all of you. Back in 2011 was the Utica master plan. A lot of public outreach. Some of you may have attended those meetings. And a lot of people said, "Hey, let's use our waterfront. It's underutilized. Can we use it for other things?"

And all of those -- and then there were other studies that went on, and in each and every study, the message was consistent, "We have an underutilized waterfront. Let's use it again for something special." So this project is intended to implement the public input that we received from these past planning efforts.

So in 2013, we began the implementation of those ideas. How do we create a waterfront?

33 acres are being transferred, but we're really studying about 160 acres. We continued to do additional public meetings. We had some here. We met with individuals in the community. We did a market study. We asked if something were built

here, what could it be? Is there retail? Is there commercial? Is there office? Is it recreational? We asked those questions, and we have a professional on our team that looked at those. We looked at working with the canal, because, of course, if that land is transferred --- hello, Mayor.

MAYOR PALMIERI: Good evening.

MS. NAGLE: We looked at the canal relocation, because, of course, when those lands are transferred, the canal is operating there today. So we're working with the canal to find a home for them, where they can be.

And then we came up with what we call alternative land use concepts, so we looked at a couple of ideas in terms of what could be built here at the harbor.

So over about a year-and-a-half period, we created some -- two options on the master plan.

I'm going to orient you again. Same image. This is Genesee Street. The Thruway is up here, Mohawk River, Erie Canal. The harbor is coming in this way. And anything orange that you see are new buildings with associated parking, but the intent

of this is to really look at a vibrant, mixed use waterfront with bars and restaurants and shops, services for boaters and travelers. We have a marina in here. All that's sort-of over here, up here in this area, which we call the dredge spoils area. The Canal Corporation is currently putting dredge spoils in this area.

We looked at this area and we said, "Well, what can that be?" And we started to look at a mixture of uses with residential and commercial uses so that we can have some residential uses, primarily say apartments or living to really feed into Marcy Nano, so folks that are coming to work at the goings on over at Marcy or Utica Nano have a place to live.

Over on what we call the west side of the harbor, that's where National Grid is doing their cleanup, so we started to look then at the cleanup of that area, what we can do. We've been working with National Grid. National Grid sits on the Local Development Corporation Board. And we started to look at potential recreation, sort-of passive and active recreation on that side of the harbor. I'll go into more of this in detail.

So to sort-of simplify that busy looking drawing -- that drawing, by the way, is on the back of -- or is in the brochure.

As we look at this to simplify it. Anything red is really sort-of commercial or mixed use commercial. Blue would be more waterfront, so we have our marina in the water, promenades, walkways. If you've ever traveled and were able to go to a waterfront and enjoy just simply walking and sitting on a bench on a nice day such as today, that's what we're envisioning here. Anything green is more recreational-oriented with very passive -- more moving towards -- north towards the lock, because that area is in a flood plain. And perhaps we're even thinking about can we do some commercial uses that relate to the water. So if a use comes in and says, well, they would use the canal or use the harbor for commercial shipping, for example, we're looking at that potential.

So all this continued to sort-of be in our blender and our filter, and as we worked with the Local Development Corporation, we came up with a final plan. And this is in the Generic

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Environmental Impact Statement. This is the preferred master plan, and it's really not that different. It's just not as pretty as the first plan. We're still looking at the same uses.

We're still looking at a mixture of residential, commercial, entertainment, waterfront uses, restaurants, local crafts, local foods. There's a lot of local food movements going on. And really, we're looking at that as a complimentary use to many of the other things that are going on in Utica, mainly Bagg's Square east and west, and of course the Aud with the Comets and the popularity of that hockey team.

So one thing I wanted to mention, too, is connections. So we have Genesee Street, Mohawk River, harbor. As you come over Genesee Street onto -- down to downtown in the central business district, this is the John Street off-ramp. And the DOT is actually going to be working on that later this fall and widening the sidewalk. Right now it's only about a two-foot-wide sidewalk. It's a very narrow sidewalk, but we're envisioning this -- if we can improve that -- first we'll get the sidewalk in. If we can improve that, that

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becomes a physical connection to Bagg's Square east and west, The Children's Museum, the train station, the farmer's market, the coffee shop, and the new bakery and all these things that are happening and continue to happen on Bagg's Square east and west. So we're very excited that all of these uses really compliment each other and really help the City of Utica.

So let me talk about the State Environmental Quality Review Act process. This is the more drier part of the meeting. That was the more exciting part. Sorry.

So we've been busy. We were here actually on October 24th, last year, and we did a scoping meeting, and some of you attended that meeting.

And at that meeting, we said these are all the things we're going to study, and we studied all of those things, and I'm presenting the findings to you here today.

The lead agency for this is the City Common Council. So we met with them back in July, and they accepted the document. They accepted this body of work as what we say is complete and now we're here for a public hearing. So we're right

about down here.

And we're guided by state guidelines, so we do have a thirty-day public comment period, which is why we're leaving this open until September 28th for a public comment period. So you don't have to get all your comments in this evening. And I'll come back at the end to the final steps as we move along.

We're not doing this alone. There are a number of agencies that we have coordinated with since the beginning, and we continue to coordinate with. In our SEQR world, they're called involved agencies. It's really hard to take a dry topic and -- so they're called involved agencies, and those agencies include the Department of Environmental Conservation, the Department of State, who is a major funder of actually a lot of this work - we want to recognize that; the Department of Transportation, they're doing a lot of work, of course, as I mentioned, the John Street bridge; Empire State Development, another major funder of this effort through State grants to the City of Utica; SHPO, that's the State Historic Preservation Office. Many of you

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probably know that the canal and the associated buildings last summer were listed onto the National Register of Historic Places, so we have a lot of coordination to do with them. And we're happy to do that, because those are very interesting buildings, but we will have a lot of coordination with them as we go forward. And then other county and the Water Authority.

So each of those agencies are actually getting this body of work, and they will present their own comments, as well. In fact, we already started coordinating with the Department of Transportation and DEC on some of these matters in this document.

So what is a Draft Generic Environmental

Impact Statement? As I said, we were in here in

October and we did a scoping meeting. We

basically did a table of contents. We said we're

going to study all of these things, which we did.

So what we're trying to do -- and these are sort-of SEQR terms. The goal is to evaluate potentially significant adverse impact to the environment. I'll summarize a little bit. That's the goal of the State Environmental Quality Review

Act. For any project that comes in, there is some level of review, some lower levels of review, some higher levels of review. This is the highest level of review that we're doing, because we want to make sure that the implementation of the plan that I just showed you doesn't adversely affect the environment, and that's really what the purpose was of preparing this.

We do consider some alternatives, from doing nothing to some phased building, for example, a phase out building as we move forward, and I'll talk about those.

So that's what it is. So why did we do it?

Well, it's really integral for the LDC and the

City of Utica to have this as we move forward.

It's the first time where we've had a body of work

where we can look at everything from

transportation, to flood planes, to cultural and

archeological resources, to storm water impacts,

to all kinds of different things, which are inside

of your brochure. And so it presents us a body of

work so that the LDC and the City can make

informed decisions as we go forward. Without all

of this information, the LDC was sort-of operating

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in the dark.

So with our engineers, with our planners, with our designers, we've all been doing a lot of work and a lot of research, which is why we've been a little bit quiet for the last year, because it took a lot of time to pull all this information together. And I'm pulling this information together.

The second bullet is really the most important, and this is what we call -- I'm going to give credit to Steve Eckler. He came up with this, "Advances the project to a build-ready state."

So if every project in New York State has some level of review through the SEQR process, that means that if a private developer were to come in at the end of the day and try to build what we've designed, they would have to do all of this themselves. So what we're doing is trying to jump start that process and evaluate some of the key components that any private person will have to do. So we're helping pre-permit, if you will, or bring this project to a build-ready state. And this is critical, because we're looking at -- I'll

cut to the chase. We're looking to have SEQR done by the end of this year, which means we'll be able to look to solicit private development interests in 2016. And then lastly, it does guide the fulfillment of the master plan and all the other previous planning studies the city has done.

So what have we learned? So this is the piece that's in your brochure. So I'll paraphrase some of this. I won't go into this in a lot of detail. Again, if you've had a chance just to read the GEIS before tonight and have questions/comments, we're going to receive those this evening. You can go back and read the body of work and see what other questions you might have. Some topics may be of interest to you versus others. Some people might not care about groundwater and some people might care more about cultural and archeological resources. That's okay. We all have our own interests.

So you can go back and research the document. Each of these topic areas is its own chapter in the GEIS, so you can read it. Each chapter is formatted the same. It's a little dry, but you can look at it and look at our research.

So we looked -- on this slide -- I'll go through a series of slides. We looked at zoning, and land use, and public policy, and I've already mentioned this. We just want to make sure that the master plan as it's being designed and presented is consistent with any previous planning efforts, and we've already talked about that.

Community services. This is the thing that we look at in terms of will there be an impact on police or fire, schools, hospitals, recreational resources, community services. And what we did learn is that it will increase the demand for services - of course, we're going to have more people and more buildings - but it wouldn't be beyond the capacity that the existing community service entities have. They'll be able to service this project. Remember what we're looking for. Is there any significant adverse impacts on the environment?

So geology, soils and topography. We're looking at -- we're looking at the soils in there. It is an area that's had a lot of fill over the years, so we looked at that, and we said, well, the impacts are primarily limited construction

phase. So when buildings go in, we have to consider how they're built in terms of their stability. For example, like The Holiday Inn when it was built has a special sort-of foundation under it. I'm oversimplifying, but in terms of being able to be on that soil.

And then the last bullet is an important piece. We looked at also importing fill. So I told you the area up here is their dredge spoils area. You can look at it in like Google or Google Earth. This is actually an open body of water, it looks like on the Google maps, and they put their dredge spoils in that. So we're just designing now filling that and closing it so we can cap it, and build this mixed use residential commercial area on it. So we evaluated that.

The next thing we looked at were natural resources, plants and animals. So we actually had -- went out where the wetlands were. We did some field studies, and looked at birds and plants and those types of things, and we did not find that the master plan would impact them.

We looked at groundwater and surface water resources, and -- let me see -- what do I want to

say about this? The -- I guess to summarize here, we'll look to storm water and how it's designed. So we don't want runoff of storm water impacting any further areas. We're actually going to look to what we call green infrastructure and try to implement some of that, which is more of like a -- sometimes porous pavement or porous sidewalks or rain gardens, things of this nature, that help hold the storm water.

And then wetlands. There are some wetlands over on the National Grid side that they actually disturbed and rebuilt, so we're going to avoid those wetlands.

And then flooding. We're not looking at any development that's in the floodway. The entire area is in a flood plain, and as many of you know, sometimes it floods over Genesee Street. The tip of the harbor up here is actually in the floodway. There's no development allowed in a floodway, and then the development within the flood plain will adhere to the city's flood regulations that they have on the books.

We looked at infrastructure and we determined that there's enough capacity to service the master

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plan. We looked at traffic and transportation, so cars coming in and out of the project onto North Genesee Street. And really the only area that may need improvement would be Wells Avenue. And that goes into this mixed use residential/commercial area. So when this is built, we will look to see how we improve Wells Avenue, according to our traffic engineer who did an analysis. He said, "Okay. If you're going to build this, you're going to have to deal with Wells Avenue and get cars in and out."

Air quality. We'll -- we didn't see any impacts from air quality, and we always look to mitigate that during construction.

We looked at visual resources. Sometimes

SEQR -- I told you, we're looking for significant

adverse impacts to the environment, but there's

also positive impacts. And there's nothing wrong

within this document to note the positive impacts.

So we said here this would be a positive impact to

the city and the city skyline. It's very pretty

if you've been into that area looking back at

downtown and the Hotel Utica, and to the right

with a new lit sign. It's a very beautiful part

of the city.

Hazardous materials. This area was one of the oldest industrial areas. It was the largest energy production area at the turn of the last century. So yes, there's hazardous materials.

National Grid is in their cleanup phases. We'll continue to coordinate with the Canal Corporation and the DEC as we move forward.

Solid waste and construction. We recognize it will be a short-term construction contract impacts, as with any construction job.

Last slide. We didn't note any impacts from noise, odor and light. Again, another positive.

The socioeconomic impacts. We noted the positive impacts with job creation, an increase in the city's tax base, which is important for many cities in upstate New York. And then the cultural resources, and that was a big one that I started to talk about earlier, that we closed — the Barge Canal is on the State's National Historic Register, and we'll continue to coordinate with the State Office of Historic Preservation on the use of those buildings.

Okay. So the next step is what we're going

to do, as I said, is we'll answer some questions, though sort-of the simpler questions, if you will. We're going to receive all your questions and comments tonight with our stenographer. We will then read them and prepare answers to all of them. That will go into what we call a Final Generic Environmental Impact Statement. So the comment period closes on September 28th, and we have a busy October to receive and answer all of your questions and comments, and we'll publish the Final Generic Environmental Impact Statement.

The Final Generic Environmental Impact
Statement is actually the answer to your
questions. That will be placed online on the
website. So if anybody wants any of these extra
brochures for friends or family, please feel free
to take them, but again, if you want to keep this
website handy.

Once the FGEIS is done, we prepare what is something called a Findings Statement, and the Findings Statement becomes the critical piece, because it says if you come in and build the master plan as we've designed it, and you're within sort-of -- the Findings Statement are

essentially the quidelines. So if you're within our guidelines, your environmental quality review, your obligation to satisfy SEQR is complete. Somebody may propose something different, or something bigger or something, they'll have to do a supplemental to this document. But largely, we prepare the Findings Statement, which are kind-of quidelines. I'm simplifying a little bit, but they're kind-of guidelines for the future development for anybody to come in and undertake any of these activities. That's what we call the build-ready state. As long as you're within our guidelines, you're done with this step. That's what we call the build-ready state, and that's what that says.

So UticaHarborPoint.org. That's the website.

It's on here. And before we open it up to the floor, I'm just going to ask my colleagues if I forgot anything.

MR. ECKLER: You did great.

MS. NAGLE: The full document -- so this is the document, and these are the appendices, all of these. So the appendices have a traffic analysis. We did a cultural and archeological survey, a

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visual survey if you're interested in that. It's actually a pretty interesting document, a lot of old photographs. That's an interesting one. What else is in here? Flood plain analysis, geo-technical report. So this has a lot of technical background, and this is the interpretation of that background. Anything else?

And Brian -- if you cannot access on the internet, Brian Thomas has a hard copy in his office, and we have CDs, too. If anybody wants a CD to take back, we can get you that. I just want to make sure I didn't forget anything.

So now we're going to do comments and questions.

COURT REPORTER: And if anyone has comments or questions, they need to identify themselves and spell their name so that I can record it accurately on the record.

MS. NAGLE: Okay. I'll repeat that. If you have any comments or questions, please identify yourself and spell your name for Nora, and it would help to say where you're from, or if you're representing a group. We were talking to Butch earlier about the Children's Museum, for

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example, Howard about the historic calendar, 1 2 things of that nature that's of interest to us, so 3 we know how to reach out back to you. We'll go to 4 Howard first. 5 MR. BUSHINGER: I have a question. 6 Bushinger is the last name, Howard Bushinger. 7 you want me to spell that? 8 COURT REPORTER: Please. 9 MR. BUSHINGER: B-U-S-H-I-N-G-E-R. 10 curious. The two large bodies of water, ponds 11 let's call them adjacent to the harbor, what's the 12 purpose of those? Do they have something to do with the decontamination? 13 MS. NAGLE: Those are just wetlands. 14 15 They're wetlands that actually National Grid 16 cleaned and then put the wetlands back in their 17 state. 18 MR. BUSHINGER: Because they were not --19 they didn't exist not too long ago, right? 20 MR. ROMANO: Yeah. It's a triangular area 21 right next to the harbor, right, you're talking about to the west? 2.2 23 MR. BUSHINGER: Yeah. They're large. 24 MR. ROMANO: That's a temporary structure

where National Grid is putting sediment. That will be closed at some point in time. It's a temporary sediment base.

MR. BUSHINGER: It's temporary?

MS. NAGLE: It's actually right here.

MR. BUSHINGER: Question answered. Thank you.

MR. ROMANO: I was asked to clarify.

Dredge spoils is really another term for sediment taken out of the harbor or river that they need for either navigation, or in the case of National Grid, for cleanup. So the spoils or sediments go into a dredge spoil area, a sediment basin.

MR. BUSHINGER: Thank you.

MR. LOMEDICO: Jack LoMedico. It's

L-O-M-E-D-I-C-O. Just a quick question on the

mitigation portion, being that it is a flood

plain. Is there going to be like flood gates in

there and ponds and things of that nature, so if

it does -- if we do have a wet area where the

water is going to go, or are they going to build

it so many feet above the flood plain? What's the

plan on that?

1 MS. NAGLE: Well, those are the next set of 2 details. So that's one of the questions that 3 we'll take and answer in the Final Generic 4 Environment Impact Statement, unless you want a 5 generic answer, but it could be --6 There's a lot of -- I mean, MR. ROMANO: 7 there's a lot of layers to that question. 8 probably better off in the commentary. 9 MS. NAGLE: We'll provide a detailed answer 10 to that, but you can --11 MR. LOMEDICO: You're working on it, right? 12 MS. NAGLE: Yeah. MR. ROMANO: I would say the flood plain 13 part of it is different -- as part of building in 14 15 a flood plain is one part of this. As far as controlling flooding is -- flooding is a little 16

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different aspect to it.

MR. LOMEDICO: My main concern is somebody is going to invest in the area, and they're going to put a building there. They certainly will want to have some conditions that they know -- there's got to be things in place where they're not going to be flooded out, which make sense.

MS. NAGLE: And the city also has detailed

flood plain regulations. They're administered through the planning and engineering office, and we'll comply with those.

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MR. ROMANO: From a general standpoint, I mean, there are regulations that you have. You can't do anything that's going to raise --

COURT REPORTER: I can't hear you. You're going to need to speak -- I know you're answering him, but if I can't hear you, I can't record it.

MR. ROMANO: Because of the regulations the way they are, anybody that builds within a flood plain is virtually unheard of. Secondly, in order to -- you have to -- you have to prove as part of getting -- of obtaining the permit, that you're not raising a one-hundred-year flood elevation. You can't exacerbate a problem that already exists or move that problem --

COURT REPORTER: I can't hear you again.

MR. ROMANO: As part of the permitting process, you have to document that you're not going — that your development is not going to raise the one-hundred-year flood elevation.

Essentially, to put that in kind-of a layperson's term, that if you're building something in a flood

1 plain and a hundred-year flood comes, it's going 2 to hit -- it could hit that building and then move 3 those floodwaters into a new area. So you're 4 actually raising the hundred-year flood somewhere 5 else. So the permitting process is a means to 6 document that you're not going to do that. You're 7 going to either flood-proof, or you're going to 8 potentially raise it above -- two feet above the 9 flood elevation. 10 MR. LOMEDICO: So the plan is to make sure 11 that it doesn't hit the high water mark on the 12 hundred-year into the area; is that correct? MS. NAGLE: Essentially. We'll answer this 13 more completely in the FGEIS. 14 15 MR. LOMEDICO: And the Army Corp of 16 Engineers has bought off on all this, correct? MS. NAGLE: We will continue to coordinate 17

MS. NAGLE: We will continue to coordinate with them.

MR. LOMEDICO: So they haven't bought off on it yet?

MS. NAGLE: Right, because we're still -we're sort-of -- even though we've done a lot of
work, we're really in the early stages, so
engineering and design is about to happen. So

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we've done our analysis of potential impact. When we do that, that's when we coordinate with the permitting agencies.

MR. LOMEDICO: Thank you very much.

MR. WASKIEWICZ: Butch Waszkiewicz,
W-A-S-Z-K-I-E-W-I-C-Z. I know we have dockage
there, but I want to make sure we have dockage for
our fellow kayakers and canoeists and rowers,
because that requires some special dockage
different from a twenty-six-foot boat. So I just
want to make sure that we do have the proper
dockage for them in the harbor.

MS. NAGLE: Thank you.

MR. VINCENT: Ron Vincent, V-I-N-C-E-N-T, resident. With all the plans that are proposed for the entire project, what would be the most -- first step to be taken? What can we expect to see next as the first thing that's going to happen in this development?

MS. NAGLE: Well, that's also a multi-faceted approach -- answer in terms of what we get. The goal is to really start to talk to private development interests in 2016. So that, to me, is probably one of the more important,

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exciting things.

MR. VINCENT: Well, it's like when a developer starts a development, the first thing they do is their infrastructure, lay the roads and get everything ready, and then all of a sudden you start seeing homes going up.

MS. NAGLE: Right. Right.

MR. VINCENT: And what I'm seeing here is, okay, we're going to have housing. We're going to have restaurants. We're going to have this.

We're going to have ball fields. We just tore down the building on Genesee Street. And am I right in assuming that the next step would be maybe an entrance road?

MS. NAGLE: Right. Exactly. Yes.

MR. ROMANO: We can say the Wurz Avenue entrance is being planned right now into the harbor, and the public road network will be expanded throughout the area. As far as -- that's a multi-faceted question as far as phasing, what happens next. Some of it's dependant on what areas become available working with the Canal Corp, and what areas become available on the other side with National Grid property. So some of that

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depends on some of those factors, so I think I'm going to have to explain in the answer some of these.

MAYOR PALMIERI: If I could just interject a little bit. I think that we're looking over a long term of the harbor. The harbor, I guess on the development side, the right side where we're talking about, the buildings and the restaurants, I think that's going to take a little longer than potentially the recreational side of the facility, that may be able to be accelerated a little bit more at this time.

So I think from a residential standpoint of looking at it, I think you might be able to see a little bit more happening there than on the right side, just because of the environmental, the impact, the study, our piece that goes out and the whole thing.

MS. NAGLE: The gentlemen next to you. I'm going to give everybody a chance to speak.

MR. HRYCAN: Hi. My name is Emil Hrycan, E-M-I-L, last name Hrycan, H-R-Y-C-A-N. I'm for this development, but I'm not for this development. I don't see it as -- I mean, some of

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these buildings that you got going on in here are buildings we already have, like in North Utica, like a shopping center. We have a shopping center in North Utica.

The soccer fields and baseball fields. We have Murnane Field. We have Proctor Park.

Looking at the waterway. I don't see anywheres where somebody could pull in and launch a boat if they want to get into the river. People are going to be coming in through the lock system to here, to see this.

The building that's sitting there right now, the maintenance shop says 1933 on top of it.

We're suppose to be historic Utica. That would be nice to leave that building there as a maintenance building for boats that come in that have a problem, and they look at the thing and it's built in 1933. Have pictures of the harbor and Utica just laying around the area in the buildings.

There's a short building, a wooden structure that's sitting there. That's been there since the early 1900s. If that can be lifted up and moved over somewhere's, and have that a little time capsule, a museum of some sort that, you know,

here's the history of Utica. Seeing houses being built down there, seeing businesses being built down there, I don't see that.

The amphitheater, maybe it will draw a crowd down there to have concerts. That would be beautiful to have like an amphitheater down there, but then you've got to take into consideration again the flooding. That floods down there.

Water rises up there. It goes over the harbor walls, the marina walls, and it's got to be thought over better. It really has to be thought over better.

To preserve some of the buildings that are sitting there, it would be nice to keep them there. Add something else to it, but to jump to build all this, I think we're going on this too fast.

MS. NAGLE: We'll answer your question in detail, but we went through a lot of information in a very short period of time, and much of what you described is in the plan. So I guess I could say rest assured --

MR. HRYCAN: There's a lot more I would like to say, but I --

1 MS. NAGLE: There's a lot. We are saving 2 the '33 building. We are saving the 1917 3 building. We are -- even though they're all 4 sort-of colored the same, they're structures that 5 are proposed to be either saved or moved. 6 So that's a little finer edge than what we're 7 here to talk about with the SEQR process, but --8 and we'll answer you more thoroughly in the FGEIS, 9 but much of what you talked about is in the plan.

MR. HRYCAN: Is there a boat launch going to be there for people to use?

MS. NAGLE: Yeah. We're looking at all kinds of marina uses. This is still an image. We want a marina, whether it goes here, here, here. We don't know yet. This is just -- this is the plan. We're still back here, and we're about to move into more detail.

MR. HRYCAN: Thank you.

MS. NAGLE: Sure. Go ahead.

THE WITNESS: My name is Doug Joslin, D-O-U-G, J-O-S-L-I-N.

My first concern is the fill materials. I want to make sure that the fill materials is not junk that we get from demolishing old buildings,

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that the fill materials is clean, hard fill, like top soil. I want to make sure that the top soil goes in there, that it's not a dump site like Proctor Park is right now.

I also want to look toward sustainability.

We have all kind of trash receptacles, no recycling. Recycling is mandatory. I want this area to be eco-friendly and sustainable. I want there to be recycling, mandatory recycling. I want it to be easy for people to recycle, not to mix it with the garbage.

My other concern is the safety. As you were saying, the John Street ramp. You can't ride a bicycle on the sidewalk when there's somebody walking there. You have to get off the bike, get off the sidewalk, and let the people walk by. There has to be something so that it's safe for not only pedestrians, but for bicycling.

I see in the plans that you have plans for pedestrians and bicycling to Bagg's Square. We need a plan for bicycling in North Utica.

Currently it's dangerous, because the bike path ends at the DOT, and then they have to fight the traffic on Genesee Street in order to get to the

bike path on Route 5, and there's no signage.

They have no idea. I see the bicyclist looking at their maps and trying to figure out where to go and how to do it safely. I need you to incorporate the safety of the bicyclists into

North Utica and through North Utica, because we have bicyclists that bicycle from Buffalo to

Albany. We need good signage and we need safety.

We need it to be safe for bicyclists.

MS. NAGLE: Thank you.

MR. JOSLIN: Thank you.

MS. NAGLE: Okay. Thank you very much. Those were great suggestions. Howard, go ahead.

MR. BUSHINGER: Howard Bushinger. There was a large building that was formally the Department of Public Works, I believe, a big brick building, took up maybe an acre or two there. I wonder if that piece of property that's on Wurz Ave. on the corner of North Genesee, is that being broken up, or is that being sold as a separate piece or --

MR. ROMANO: 105-109, that's been taken down recently by the city. That's being incorporated into the entranceway improvements

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1 that are being planned right now on Wurz Ave. 2 that's part of the whole beautification underway 3 to the harbor. It's a very slim parcel. 4 I'm sorry if I've gotten the wrong building. 5 Are you talking about the old Department of Public 6 Works that was recently removed, or no? 7 MR. BUSHINGER: Yeah, the big building that 8 came down. 9 MS. NAGLE: Back here on Genesee? 10 MR. BUSHINGER: If somebody said, "I want 11 to build something there", it will be available? 12 MR. ROMANO: Well, right now, the width of that parcel -- the road is being widened there for 13 14 a turn lane, an extra turn lane, because of the 15 studies and everything. And we need an area so you have a nice view of the future harbor, and you 16 17 have some features there, landscaping features 18 that capture the image of the master plan for the 19 harbor and the mixed use development. 20 Right now, it's part of the landscaping plan 21 and the master plan. 2.2 MR. BUSHINGER: There will be big changes 23 there? 24 MR. ROMANO: Oh, absolutely.

MS. TESTA: Do you have an image of what
the entrance will look like?

MS. NAGLE: I don't have it with me, but we
did do that image, yes. I think it's on the
website.

MS. TESTA: You can go on the website and
check it out, and it actually gives you a better
image of what the entrance is going to look like.

MS. NAGLE: Sam just -- for those of you
that couldn't hear, we actually took -- it's the

MS. NAGLE: Sam just -- for those of you that couldn't hear, we actually took -- it's the building that the city recently took down during Wurz Ave. improvements, road improvements. Where that building was is a very narrow -- it's actually a very small parcel, even though the building looked quite large. Once we got it down and looked at it, it's very small, very narrow.

So we've actually done sort-of a birds-eye view into the harbor, and that's on the website so you can see. It's one idea, actually another early idea, but what we're talking about is that that's a main gateway into the harbor.

So maybe there's sort-of a water feature here, something that draws your eye, some landscaping for bicycles and pedestrians, safe

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1 access in through here. And that's part of the 2 next phase that we're working on. 3 UNIDENTIFIED SPEAKER: To followup, I heard 4 a rumor that that's for sale, that piece of 5 property there. Is that --6 MAYOR PALMIERI: Not to our knowledge. 7 parcel that went down, the one up by 109, you said that was for sale? 8 9 UNIDENTIFIED SPEAKER: It's on the 10 computer. It's for sale, \$900,000. 11 MR. THOMAS: You're talking about the 12 privately-owned property that's just to the north of that? 13 MAYOR PALMIERI: To the north of that, 14 15 that's not owned by the city. 16 UNIDENTIFIED SPEAKER: The DPW -- the old 17 DPW building? MR. THOMAS: It doesn't include that 18 19 property. What you're talking about is the two 20 parcels immediately north of where that building 21 sat. Those are privately-owned and they are --2.2 MAYOR PALMIERI: They're privately owned. 23 It's not the City of Utica. 24 MS. NAGLE: Anybody else before we're back

to Ron?

MR. VINCENT: Ron Vincent, still a resident. I don't know if you people have ever been there, but it might behoove you. There's a little town called Victor, New York. Apparently I don't have to say anymore. If somebody was to go out there and just walk along that canal and see all the little businesses that are out there — and they're little micro-businesses. I mean, they have a lumberyard that was about the size of this room. I mean, it was interesting. My wife and I were there for a couple of nights staying in a hotel. And to talk about the foot traffic and bicycling around that place, it was phenomenal. We ate at a restaurant that overlooked the canal.

MS. NAGLE: Is that Fairport or Victor?

UNIDENTIFIED SPEAKER: Fairport also has --

MS. NAGLE: Right. Those are great analogies, yeah.

MR. VINCENT: It was just beautiful. There were people driving, walking, riding bikes there.

MS. NAGLE: That's great. Thanks, Ron. Any other questions? Butch?

MR. WASZKIEWICZ: Butch Waszkiewicz,

W-A-S-Z-K-I-E-W-I-C-Z. There is currently a large canopy over there that's been used for the soil remediation. That could be enclosed as an indoor sports facility for year round use.

MS. NAGLE: That's exactly what we had

MS. NAGLE: That's exactly what we had planned on here. That's this. We nicknamed it the Parthanon.

MR. WASZKIEWICZ: Beautiful.

MS. NAGLE: That's what we started calling it. It's a nice building. It's not going anywhere. It's built really well.

MS. IRONS: Beth Irons, I-R-O-N-S, North
Utica resident. I also manage the Oneida County
Public Market at the train station, and I'm on the
Board of Directors for the Bagg's Square
Association.

I see on here that you have trails. Are those multi-use, like walking, bicycling, and that kind of thing?

MS. NAGLE: The intent will be to incorporate multi-use here, both. This gentleman's comment, good pedestrian access, bicycle access, even transit to get people in here.

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1 MS. IRONS: I also have like a semi-retired 2 hat of sitting on the Board of Directors for the 3 Utica Marsh Council. 4 So with this plan, is there potential at some 5 point in the future, and I would just leave that 6 dangling out in the wind somewhere, to join with 7 the trail system into the marsh? 8 MS. NAGLE: Yes. We -- it's just off of 9 here, but we were looking at -- because we're just 10 focusing on this, I didn't mention it, but there's 11 the tourism line, the rail line. 12 MS. IRONS: Yeah, the Adirondack Scenic Railroad. 13 14 MS. NAGLE: So we were looking at 15 potentially accessing in there and having a kayak or boat launch, perhaps, on the Mohawk River. 16 17 That was something that we had been talking about. 18 MR. TRENT: My name is Tim Trent, 19 T-R-E-N-T. My question is -- well, my comment first and then my followup question. 20 21 There are millions and millions and millions 2.2 and millions and millions and millions of cars on 23 the Thruway driving between -- cars and other

vehicles driving between Albany and Buffalo.

Every one of those vehicles has people in them, and probably somewhere around \$100 a piece. If you do the math, that's probably in the billions of dollars driving right through North Utica, a quarter of a mile away from this site, with an interchange right there. In addition to that, we have the railroad that runs the same span and other regional routes.

My question is: What is there about this project in particular that is designed or intended to pull those vehicles and those people with those dollars from outside our area into our area?

When we talk about economic development, that is passing us by. The kinds of things I'm imagining are something like the Water Safari in Old Forge that pulls tons of people up there all year, and they don't have the access to traffic that we do. Saratoga Performing Arts Center, Canandaigua Performing Arts Center in the Canandaigua Community College, something like the performing arts venues at the State Fair, the Chevy Court and whatever they call it, especially during the summertime. People would come from all over the state, via the Thruway, to attend events

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that are that accessible to the Thruway.

The Waterloo Premium Outlets just this side of Rochester, I travel to Rochester once or twice a year. Every time I go to Rochester, I plan a four-hour visit to the Waterloo Premium Outlets, and I always leave some money there.

Those are the kinds of things I'm imagining and always imagined that would be worked into this design going back to the days of Henry Morehouse, Sid Overman (phonetic), Don Klein, when downtown was a reality. The businesspeople always asked the Downtown Utica Development Association, which may or may not exist any longer, I don't know -- always asked, "What are we going to do to get people off the Thruway to come to our community?" And this is a once in a lifetime, and I mean once in my lifetime anyway, opportunity to accomplish that objective.

So my question, to repeat, is: What has been designed into being built into this project to pull those people in those numbers?

MS. NAGLE: That's another one we'll answer in more detail in the FGEIS, but in the beginning of this document, there's a detailed breakdown of

all the different uses that we have in our -- this is sort-of the simplified version, but there's all of that. The answer is all of that.

So again, I'm trying to paraphrase a large document in a short presentation, but this whole blue area is all -- somebody mentioned Pittsford and Fairport and Victor. This is a large scale of that. Buffalo is doing their waterfront right now as a destination. Syracuse has it. In its entirety, this entire project is the destination. You can come by car, transit, bike, foot, boat, marina, amphitheaters.

We're looking at potentially larger scale recreational, softball, which we've met with -there's a huge softball league in the city that draws from all around the region. Recreational entities in their entirety themselves -- I was just having this conversation with somebody yesterday -- generate the economic impact of tourism from both youth and adult leagues is huge, because people travel there. They come here.

We're looking at over here commercial and residential development, which will really serve either empty nesters, people looking to downsize

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out of their house, or people coming to work at some of the new announcements over at Utica Nano, Marcy Nano facility.

So in its entirety, this -- the older building, the 1933 building, we're envisioning that as one of the -- we sort-of call it a food emporium. That's the best thing we can come up with right now, but it's really intended to be -- you're coming to try Saranac beer. You're coming to try all of the local offerings that are here.

And so you can imagine umbrellas and tables, and chairs and benches, and people just coming to sit and watch the world go by, and look at the water and watch the fish jump, or the eagles fly over or what have you, the resurgence of some nice wildlife in the whole of the Mohawk River.

So in its entirety, it's being designed -what you just described is really the goal of the
Utica Harbor Local Development Corporation, is to
take this once in a lifetime opportunity and
create a destination for people to come to the
City of Utica and get off the Thruway and enjoy a
whole host of offerings.

MR. TRENT: I'm imagining not just a

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destination. I'm imagining an irresistible destination.

MS. NAGLE: That's good.

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MR. TRENT: Something that people driving the Thruway cannot resist visiting, because it's that exciting.

MS. NAGLE: That's a good tag line. I like that.

MS. IRONS: Beth Irons, North Utica resident. I just want to clarify what Mr. Trent has mentioned.

I'm on the Board of Directors for the Oneida County Tourism, and Oneida County alone, right now, today, generates over one billion dollars in tourism economy for upstate New York every year. One billion dollars. So this, I think, does a great job building on what we're already doing right. We've got a chunk of the harbor right in our lap, right in our front door. We're not utilizing it to its potential. This makes an attempt to do that. Whether the final product looks like it does on the picture is kind-of irrelevant at this point. The idea is planting the seed and developing the plan and moving

forward in some direction with support.

We have softball tournaments that run in South Utica now that bring people -- we already have people coming off the Thruway. We have people coming off international planes to come to Utica for multiple reasons, and this just feeds off of that, I think. I think the whole thing should be commended. I think thinking outside the box is exactly what you needed to do, and this is a great attempt to do that.

MR. MOJAVE: Mark Mojave, also from the Bagg's Square Association, M-O-J-A-V-E. I encourage the -- and I'm just speaking for myself. I encourage the idea of an enhanced pedestrian/bicycle connection to everywhere, and in particular to the north, Bagg's Square.

And has any thought been given not to just a pedestrian or bicycle connection, but if one were to be established, how it might fit into -- I guess I'm encouraging steps to be taken now to anticipate the idea of a pedestrians connection, just, I think, as a property owner, merchant in Bagg's Square. If people were parking down at the harbor, which I'm not against it, but I don't

think that they're going to come all the way out and then over and then into Bagg's Square.

They're not going to want to then have to walk all the way back to where their cars are parked. So I think that in terms of encouraging walking.

MS. NAGLE: Point well taken. So just a clarification. DOT is actually widening this sidewalk. It's planned in October, November of this year, to actually widen the sidewalk on the John Street bridge.

So we jokingly say this is Utica's high line. So we'll let the DOT get the sidewalk widened, and then we'll look and see if we can enhance it so it's a comfortable pedestrian experience, because you still have cars going by you and bikes and what have you. There is some discussion of how we could potentially make this connection on Washington Street over the railroad tracks, whether it's a pedestrian bridge or a gondola --

MAYOR PALMIERI: Or helicopters.

MS. NAGLE: -- or helicopters, drones that can carry people.

UNIDENTIFIED SPEAKER: Liability would be too high.

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MS. NAGLE: But yeah, we're considering 1 2 3 4 Ron? 5 MR. VINCENT: Just a suggestion. 6 Vincent. Just another suggestion. 7 Where you're talking about the sports fields 8 9 10 11 12 area. 13 14 15 that greater for revenue.

what that could potentially be. Obviously it's very costly. Anybody else before I go back to

and things over there. If I'm reading this right, on the other side of the tracks is all that open property, some of it owned by the city. Maybe that could eventually be turned into a parking

MAYOR PALMIERI: I hope not. Economic development. I would hope that we could utilize

MR. VINCENT: With an access bridge over to that point.

MAYOR PALMIERI: An access bridge, yes.

MR. VINCENT: And now you've killed a couple, three birds with one stone. You've got parking there, accessibility to the sports fields and the whole harbor, and the other half of the people can go over here to have a cup of coffee, eat some stuff.

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1 And another thing. In that sports field, you 2 ought to think about a bocce area. You could be 3 in competition with Rome. Have the bocce 4 tournaments in Utica. 5 MAYOR PALMIERI: I'm sure we can do that. 6 MS. IRONS: A harbor point trolley --7 MS. NAGLE: A harbor point trolley. 8 MS. IRONS: -- and offer transportation. 9 UNIDENTIFIED SPEAKER: That's a good idea. 10 MR. JOSLIN: Doug Joslin, J-O-S-L-I-N. 11 Have you abandoned the plans for the amphitheater? I don't see it on here. 12 MS. NAGLE: No. 13 MS. IRONS: It's right at the end of the 14 harbor, isn't it? 15 16 MR. JOSLIN: I'm seeing sports fields, softball fields. 17 MS. NAGLE: No. It's -- I mentioned when 18 we started in 2013 we did two alternatives. 19 20 is (A). I didn't show you (B), just in the 21 interest of time. 2.2 Here the amphitheater is -- we're actually 23 thinking of the water -- in the water where you 24 could watch from here. And the other alternative

that we had had this sort-of raised where the 1 2 triangle of water is where somebody else asked 3 about earlier, and the amphitheater being in the 4 water. So you're sitting here and looking out at 5 the water. That's actually one of the preferred 6 ideas of the Local Development Corporation. 7 it's not lost. It's just --8 MR. JOSLIN: It's just not in here. Okay. 9 MS. NAGLE: But no, that's not lost. 10 MR. JOSLIN: How big would it be? 11 MS. NAGLE: We don't know yet. Again, it's 12 an idea. MR. JOSLIN: Because again, we'd like to 13

MR. JOSLIN: Because again, we'd like to see cultural venues, concerts, things like that, and an amphitheater would be perfect for that.

MS. NAGLE: It is very much in the plan.

MR. JOSLIN: Thank you.

MR. BUCCIERO: Ed Bucciero,

B-U-C-C-I-E-R-O. One of the major points of developing this particular area, and the way we're going to develop it, is that we want it to be a four seasons type of development, not just a summer, where you can walk and bicycle and utilize this, and then eight months out of the year it

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becomes a ghost town, because nobody wants to traverse the North Utica bridge, and/or there's no other mechanism to get to downtown or some of the other hotels that are downtown.

So connecting this harbor to downtown was a major point that the Mayor had made when we first discussed and had our first -- very first meeting. And I commend him for that, because again, if we can connect downtown, and we can connect the auditorium, and we can create a triangle of venues that people will come off the Thruway to participate in, this just being one of them.

And to go to Mark's thought and some of the other comments that were kind-of -- I don't know if anybody could hear them, but they were talking about a trolley, there were talking about a pedestrian bridge. One of the things we've got to make sure of is whatever the mode of transportation is that are going to get people from this development to downtown, it has to accommodate that we're a four seasons community. So we have to keep people in shelters when they're going to be making that transition from the harbor to downtown or to the auditorium.

So there are a number of thoughts, and every one of them is on the table, believe it or not.

I'll make sure every one of them is on the table, and that's from a gondola to a trolley to a bridge to bus transportation to anything that we can — and then we'll analyze each and every one of them from its productivity, its practicality, its financial feasibility, and making sure that we pick one or possibly two of those particular transportation modes so that we can accomplish the overall goal of making this a four-season venue, not just a summer venue.

I hear a lot of talk about what we're going to do during the summer. That's why we want to have residential. That's why we want to have light industrial. That's why we want to have retail. So we want to be able to utilize this area all year long.

So when the Comets are playing -- they play in the wintertime -- and they're going to be drawing people off the Thruway. This is a place that they're going to want to stay, eat, and enjoy. We're going to have outdoor venues for winter skating rinks, things of that nature.

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So that this is going to be utilized continuously to bring commerce to the City of Utica and to this area.

So we are going to be considering each and every one of those transportation modes, and the best ones will win out. And we'll do our best to make sure of that.

MS. NAGLE: While there's a little bit of a lull, I'm just going to remind everybody that the public comment period is open until

September 28th. You can provide your comments to Brian Thomas, Community Economic Development

Office at City Hall. He also has a hard copy of this document there. The document is on the website, which is on this brochure. You can submit your comments through the website. There's index cards up here if you'd like to leave another comment, or if you've written comments and want to give them to Cat or Allison on your way out, that would be great.

After September 28th, we'll be responding to each and every question and comment, and we'll prepare what we call the Final Generic Environmental Impact Statement, and that will be

late October. And that will be online, as well.

So I want to remind everybody. If you don't have a question now, if you're sitting here contemplating some other thoughts but you want some more time to formulate them, you have it.

The 28th is a week from next Monday, two weeks from yesterday.

MR. DRAGOTTO: Frank Dragotto,
D-R-A-G-O-T-T-O. Lisa, is this working in
conjunction with the MV-500 program project?

MAYOR PALMIERI: Yes.

MS. NAGLE: Yes.

MR. DRAGOTTO: I was in Johnstown about five weeks ago. I spoke with Alicia Dix and Laura Cohen. I also spoke with John Swan.

I have a bold, innovative concept that I think is going to work perfect for this area. I think it's going to help a lot of people. It's going to create jobs, economic development. It's going to revitalize possibly a building. I have spoken with a number of people on this, also Mr. Bob Albrecht, who is the chairperson for Keeping Mohawk Valley Beautiful. I actually had breakfast with him about a month ago. We

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discussed this. He's interested in possibly doing something like this in Little Falls, but I think it would be great for the Utica area, because it's a bigger area.

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To make a long story short, it is a theater.

I know we're looking at an amphitheater here.

This is a different theater. It's actually a movie theater. It offers first run movies, but it's also a training theater. It trains disabled people, disabled veterans, veterans, all kinds of people, and it's going to create a lot of jobs.

We haven't had a good movie theater in Utica in years. These old buildings are terrific buildings to revitalize. It would be great. I remember when we used to have the Olympic, the Avon, the Stanley used to show movies, the Rialto. There was so many different movie theaters, neat-looking movie theaters. People love these old buildings. I think this would be perfect for this area, and it's going to create jobs and economic development and everything that we really need and want here. I think this is perfect for this area.

I did bring some information. I've been

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working on it for about six months now. I did bring some information. I'd like to leave some with Mayor Palmieri if I may, possibly Mr. Gilroy and whoever else may want to take a look. I did bring --

MS. NAGLE: That would be great. You could leave one with Allison and we'll get it to the team.

MR. DRAGOTTO: That would be terrific. And again, I think it's our ticket to winning the 500 million dollars. It's different. It's special. I think it's going to set us apart from everybody else who is in this competition. Thank you.

MS. NAGLE: Thank you. Questions or comments? We're here for about another -- well, we'll be here for as long as you like, but we'll be here until 8:00.

If there's no more questions or comments, we can just be here if you want to chat, but we encourage you to formally submit questions or comments by the venues that I had said. If there's no more questions, I thank everybody for coming.

MR. TRENT: I'll ask one more question.

Tim Trent. Has there been any input solicited

from other communities in the region, especially
those along the waterway like Marcy, Whitesboro,

Oriskany, Frankfort, Ilion, assuming that this
would emerge eventually as a regional -irresistible, regional destination?

The impressions, the concerns, interests, desires of people in communities around the region might inform the thinking and decisionmaking about what we do here.

Again, I'll just say, this is a once in a lifetime opportunity to create something that I'm not sure how many people can imagine at this point. And it would arise out of that kind of dialogue, perhaps.

MS. NAGLE: Thank you. Any other questions or comments?

Well, I don't know if Vin or the Mayor have any closing thoughts. I'll thank everybody for coming and providing your input. It's very valuable for us. It's been extremely interesting, some great ideas.

MR. STEFFENSEN: I have one comment. It's

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not on this thing. It's a wonderful thing that the old bank building has been rebuilt into a restaurant and everything.

MS. NAGLE: The landmark building?

MR. STEFFENSEN: Yeah, apartments. Is there any thought -- anybody talked about apartments in the top of the Hotel Utica?

 $\ensuremath{\mathsf{MS.}}$ NAGLE: I don't know the answer to that.

MR. STEFFENSEN: I think it would be a perfect thing.

MAYOR PALMIERI: The key is, at this point when we're talking about Hotel Utica, hopefully they are marketing that. The current owner, I don't think, honestly doesn't have the wherewithal, the financial, to do -- to not even pay the taxes at this point.

So I guess what we would be looking for, and to your point, there was somebody that looked at the facility to potentially put a hotel there, a flagship, but the cost was millions and millions of dollars more than they anticipated.

I'm -- on a consistent basis, I'm talking to
some people, because the last thing we want to do

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is to see that building become dark.

So to your point, I think lofts, suites, mixed use restaurant. I think Hotel Utica has ambiance like no other building that we have in the City of Utica. And thank God that things are happening, because there is interest in that building and it's not dormant the way it was before. But to your point, it's exactly what we envision.

MR. STEFFENSEN: Because that would give you enough income to start paying taxes if you had thirty apartments up there.

MAYOR PALMIERI: Again, that would be some of the professionals determining what they want to do with that. It would be looking for a brand, also, along with that, someone that has run a hotel. The building is structurally wonderful, but it's a little bit old and it needs some money. It needs a lot of money to bring it up to standards. But I think with everything that's happening in the city, I think you will see some good things happening, hopefully in the near future.

MR. STEFFENSEN: We don't have to wait for

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the grandchildren to see it.

MS. NAGLE: Can you just -- even though that was about the Hotel Utica, could you identify yourself for Nora, your name?

MR. STEFFENSEN: Steffensen, S-T-E-F-F-E-N-S-E-N, Robert.

MS. NAGLE: Thank you very much.

MR. HRYCAN: Emil. When this does become a reality and work starts to come forward on this, where is the funding coming from? Who is going to be paying for this, the taxpayers, all us taxpayers, or is this going to be state money?

MS. NAGLE: Another complicated answer.

MR. HRYCAN: Having the harbor development --

MS. NAGLE: Much of it is -- we already
have a significant amount of state grant dollars
that is funding all of our work to date through
the Empire State Development Corporation and the
New York State Department of State Local
Waterfront Revitalization Program. Both of those
entities have provided funding to the City of
Utica to fund this whole body of work that you've
seen and continuing. Once you get in with some of

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1 those state funding agencies, they become really 2 nice partners that you can kind-of keep going back 3 to. 4 We'll look to the MV-500 plan for funding. 5 The idea is to have public -- some public dollars 6 for some of the public infrastructure, so the 7 streets and the sidewalks. Private dollars then 8 undertake the development. 9 So it would be a public/private partnership 10 in the end. Good question. Thanks. 11 We're here to answer any more questions. So 12 thank you so much for coming. We appreciate all 13 your input and appreciate your time on such a 14 beautiful evening. Thank you. 15 (Whereupon, the Proceedings concluded at 16 7:21 p.m.) 17 18 19 20 21 2.2 23 24

CERTIFICATION I, NORA B. LAMICA, Shorthand Reporter and Notary Public within and for the State of New York, do hereby CERTIFY that the foregoing record taken by me at the time and place noted in the heading hereof is a true and accurate transcript of same, to the best of my ability and belief. Nora B. Lamica NORA B. LAMICA Court Reporter/Notary Public Dated: September 28, 2015

State Environmental Quality Review Act (SEQRA) Final Generic Environmental Impact Statement

CITY OF UTICA – HARBOR POINT REDEVELOPMENT Utica, New York

Appendix C
Traffic Impact Study Addendum

LOCHNER

December 15, 2015

Beth Watts, PE, PTOE
Planning and Program Management
New York State Department of Transportation
Region 2 Office
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Re: Harbor Point Redevelopment Traffic Impact Analysis, Utica, New York

Response to Comments on Draft GEIS for Harbor Point Development

Lochner No. 10083

Dear Ms. Watts:

In response to the NYSDOT's comments dated September 25, 2015 on the Draft Generic Environmental Impact Statement (DGEIS) for the Harbor Point Development, additional studies have been undertaken. The traffic analyses were updated to reflect the reduction in southbound Genesee Street lanes between Wells Avenue and the John Street/Broad Street ramp. An analysis of the future No-Build scenario was also performed. As requested, a traffic signal warrant analysis for the Genesee Street/I-790/Thruway Ramp intersection was also performed. The following sections summarize the findings of each of these studies:

1. Signal Warrant Study

A signal warrant study has been performed for the Genesee Street intersection with the eastbound I-790/Thruway ramp. Traffic data was collected for the time period from November 30, 2015 to December 3, 2015. The data collected from this 72-hour automated count is included as Attachment A. Table 1 (Attachment A) summarizes the "average day" count information for each approach to this intersection.

An evaluation of the traffic signal warrants outlined in the Manual of Uniform Traffic Control Devices (MUTCD) and the NYSDOT supplement was performed and summarized below.

- a. Warrant No. 1 Eight Hour Volumes: This warrant is applicable where a large volume of intersecting traffic is the principal reason to consider a traffic signal. To meet this warrant, specific traffic volumes on the major street and the higher volume minor street approach must be met or exceeded for at least 8 hours of an average day. From Table 4C-2, Eight Hour Vehicular Volumes for this intersection exceed 600 vph (total of both Genesee Street approaches) and 200 vph on the ramp approach. As shown in Table 2 (Attachment B), these volumes are exceeded for 12 hours on an average day. As a result, Warrant 1 is met.
- b. Warrant No. 2 Four Hour Vehicular Volumes: This warrant is intended to be applied where the volume of the intersecting traffic is the principal reason to install a traffic signal. This warrant requires the volumes of any four hours to be plotted above the applicable curve in Figure 4C-1. As shown in Figure 4C-1 (Attachment B), twelve (12) hours plot above the applicable curve. Warrant 2 is met.
- c. Warrant No. 3 Peak Hour: This warrant is intended for use where for a minimum of one hour per day, the minor street suffers undue delay when entering the major street. As shown in

Beth Watts, PE, PTOE Lochner No. 10083 December 15, 2015 Page 2

Figure 4C-3 (Attachment B), ten (10) hours plot above the applicable curve. Warrant 3 is also met

- d. Warrant No. 4 Pedestrian Volume: There is no pedestrian crossing of Genesee Street at this location. The warrant is not applicable.
- e. Warrant No. 5 School Crossing: There is no school crossing at this intersection. The warrant is not applicable.
- f. Warrant No. 6 Coordinated Signal System: This intersection is not part of a coordinated signal system. The warrant is not applicable.
- g. Warrant No. 7 Crash Experience: This warrant is applicable where the severity and frequency of crashes are the primary reason for installing a signal. There were four accidents over a threeyear period that might be corrected by the installation of a signal. This is less than the five or more per year of criteria B. This warrant is not met.
- h. Warrant No. 8 Roadway Network: This warrant could be justified to encourage concentration and organization of traffic flow on a roadway network. The entering volumes for this intersection exceed the minimum of 1,000 vph and currently exceed the thresholds for Warrants 1, 2, and 3. Genesee Street connects downtown Utica to the NYS Thruway (Route I-90) and could be considered a major route. This warrant can be considered as being met.
- Warrant No. 9 Intersection Near a Grade Crossing: This warrant is not applicable.

2. Conclusions and Recommendations – Traffic Signal Warrant Study

Signal Warrants 1, 2, 3, and 8 are met. Installation of a signal at the Genesee Street intersection with the eastbound I-790/Thruway ramp is warranted. The following "Traffic Analysis Update" section includes an analysis of traffic conditions of this intersection under signal control.

3. Traffic Analysis Update

The traffic analyses for the Genesee Street corridor from Lee Street to the intersection with the eastbound Route I-790/Thruway ramp has been updated to reflect the reduction in the number of southbound lanes between the John Street/Broad Street ramp and Wells Avenue. The lane reduction resulted from traffic mitigation measures implemented with the recent construction of the Fairfield Hotel

An analysis was also performed for the future no-build condition. This analysis evaluated year 2020 conditions with background growth only and no site development. The results of these analyses are summarized in Table 2. As shown in the table, there is only a minimal decrease in levels of service between the existing and no-build condition.

For the future build condition, it was assumed that the Genesee Street/Wells Avenue intersection would become signalized. Level of services conditions at all intersections, except for the Genesee Street/Route I-790/Thruway ramp intersection will operate at Level C or better. The I-790/Thruway ramp left turn movement onto Genesee Street will operate at Level E during the future under the build out scenario. The right turn will operate at Level of Service C. The result of the traffic analyses are included in Attachment C.



Beth Watts, PE, PTOE Lochner No. 10083 December 15, 2015 Page 3

A signal warrant analysis indicated that a traffic signal is warranted at the Genesee Street intersection with the ramps. An analysis of future conditions with build out under signal control would result in this intersection operating at the following overall levels of service:

Time of Day	Overall	Ramp Right Turn Approach
AM	B (18.9 sec)	A (6.6 sec)
Midday	A (5.8 sec)	B (14.1 sec)
PM	A (5.9 sec)	B (14.6 sec)

The results of the traffic analysis assuming signal control at this intersection are included in Attachment D.

4. Conclusions and Recommendations – Traffic Analysis

The analysis shows that Genesee Street will continue to operate at acceptable levels of service. The signalized intersections of Genesee Street/Wurz Avenue and Genesee Street/ Wells Avenue will operate at level of C or better under the build out scenario.

Under stop sign control, the eastbound I-790/Thruway ramp approach to Genesee Street will operate at Levels D and E under full build-out. Converting this intersection to signal control will result in an overall intersection level of service of B or better and the ramp approach operating at Level B or better.

Should you have any questions on these analyses or require additional information, please contact me at 315-292-6163 or via email at bmandryck@hwlochner.com.

Sincerely.

Brian P. Mandryck, PE Senior Traffic Engineer

BPM/tmc

			Ta	Table 2						
		Harbor P	oint - Leve	Harbor Point - Level of Service Summary	Summary					
			Existing		2	Future (No Build)	(PII		Future (Build)	_
Intersection/Approach	Control	AM	Midday	PM	WF	Midday	Md	AM	Midday	F
Genesee St / Wurz Ave	Signal	B (17.2")	B (17.1)	B (17.5)	B (17.0)	B (17.3)	B (17.7)	C (22.7)	C (20.2)	B (16.5)
Genesee St / Lee St	Stop Sign									
EB Lee St Right Turn		B (12.8)	B (12.4)	B (12.6)	B (13.2)	B (12.8)	B (13.0)	B (12.2)	C (15.2)	B (14.3)
WB Lee St Right Tum		B (11.7)	B (14.0)	C (17.0)	B (11.9)	B (14.5)	C (17.9)	B (14.1)	C (17.8)	C (22.7)
NB Genesee St Left Turn		B(11.0)	B (10.3)	A-B (10.0)	B(11.4)	B (10.5)	B (10.2)	B (12.0)	B (12.2)	B (11.2)
Genesee St / Wells Ave / HESS Station	Stop Sign/Signal**							B (13.2)	B (18.9)	B (15.0)
EB Wells Ave		C (19.4)	D (31.3)	D (33.3)	C (20.8)	D (34.7)	E (37.6)	C (22.4)	C (32.8)	C (24.6)
WB HESS Drive		C (19.8)	D (25.9)	F (51.8)	C (21.1)	D (28.5)	F (62.1)	C (21.3)	C (22.8)	C (21.4)
NB Genesee St Left Turn		B (10.3)	A (9.7)	A (9.6)	B (10.6)	A-B (9.9)	A (9.8)	A (9.6)	B (12.3)	B (12.6)
SB Genesee St Left Turn		A (8.6)	A (9.7)	B (10.8)	A (8.7)	A-B (9.9)	B (11.1)	B (14.3)	C (20.7)	B (15.8)
Genesee St / Harbor Lock Rd	Stop Sign									
EB Harbor Lock Rd Right Turn		B (12.2)	B (11.1)	B (11.0)	B (12.5)	B (11.2)	B (11.2)	B (13.2)	B (12.7)	B (12.2)
WB Harbor Lock Rd Right Turn		B (10.1)	B (11.4)	B (12.9)	B (10.2)	B (11.6)	B (13.3)	B (10.5)	B (13.5)	B (14.7)
Genesee St / Thruway / I-790 Ramp	Stop Sign									
EB Ramp Left Tum		C (18.3)	C (20.1)	D (26.1)	C (19.3)	C (21.4)	D (29.0)	E (36.4)	D (34.2)	E (42.8)
EB Ramp Right Tum		C (22.0)	B (12.9)	B (13.8)	D (25.3)	B (13.5)	B (14.5)	C (21.5)	C (19.5)	C (19.6)

^{*}Average delay in seconds.
**Future condition will be signal control.

	×	

ATTACHMENT A Existing Traffic Volumes



Table 1
Traffic Count Summary
Genesee Street and I790/TWY Ramp

START		Genesee Street	1	1790/	TWY Ramp App	roach
TIME	NB	SB	Combined	1790	TWY	Combined
12:00 AM	85	62	147	20	35	55
1:00 AM	60	47	107	12	27	39
2:00 AM	46	32	78	19	26	45
3:00 AM	59	25	84	15	27	42
4:00 AM	91	42	133	16	33	49
5:00 AM	145	84	229	52	50	102
6:00 AM	315	232	547	117	95	212
7:00 AM	543	552	1095	251	168	419
8:00 AM	639	575	1214	255	202	457
9:00 AM	722	493	1215	177	166	343
10:00 AM	712	467	1179	148	144	292
11:00 AM	820	494	1314	142	145	287
12:00 PM	960	623	1583	174	131	305
1:00 PM	862	578	1440	167	128	295
2:00 PM	929	529	1458	165	128	293
3:00 PM	1048	555	1603	215	125	340
4:00 PM	1213	541	1754	221	173	394
5:00 PM	876	536	1412	217	175	392
6:00 PM	538	401	939	129	143	272
7:00 PM	449	309	758	87	90	177
8:00 PM	374	232	606	72	67	139
9:00 PM	337	182	519	54	53	107
10:00 PM	204	116	320	41	46	87
11:00 PM	128	82	210	39	35	74

TOTAL 12155 7789 19944 2805 2412 5217

Location: Utica, NY Road: I-90 Eb Exit Ramp to Sb Genesee St Segment: 100' before merge with I-790 Ramp Technician: HD

Tri-State Traffic Data, Inc. TSTData.com (610) 466-1469

Site Code: Thruway ramp Station ID: 0000000000000

Start Time	Mon 30-Nov-15	Tue 01-Dec-15	Wed 02-Dec-15	Thu 03-Dec-15	Frl 04-Dec-15	Average Day	Sat 05-Dec-15	Sun 08-Dec-15	Week Average	
12:00 AM		31	36	38	*	35	*	*	35	
01:00		25	33	22		27			27	
02:00		20	31	26	*	26		*	26	
03:00		34	21	25	*2	27	9.0		27	
04:00		29	36	34		33		*	33	
05:00		51	53	46	*.	50			50	
06:00		85	82	119		95			95	
07:00		176	167	160	*	168		*	168	
08:00	183	179	204	244	*	202			202	
09:00	165	196	162	141		166			166	200
10:00	143	161	155	116	*	144	*		144	
11:00	133	142	153	153		145	*		145	
12:00 PM	145	142	117	120		131	*		131	(50)
01:00	122	129	150	110		128	*		128	
02:00	125	149	142	98		128	*		128	
03:00	120	131	125	*	5.53	125		*	125	
04:00	154	184	182	*		173	ń		173	
05:00	180	177	169			175		- •	175	
06:00	120	138	171	*		143			143	
07:00	91	87	92	*	100	90		*	90	
08:00	71	66	63	*		67	*		67	
09:00	45	50	63			53			53	
10:00	30	49	59	*	0.00	46			46	
11:00	34	35	37	*		35			35	
Day Total	1861	2466	2503	1452	0	2412	0	0	2412	
% Avg. WkDay	77.2%	102.2%	103.8%	60.2%	0.0%	no ralla			do T I Pro	
% Avg. Week	77.2%	102.2%	103.8%	60.2%	0.0%	100.0%	0.0%	0.0%		
AM Peak	08:00	09:00	08:00	08:00	-	- 08:00		-	- 08:00 -	
Vol.	183	196	204	244		- 202		-	- 202 -	
PNi Peak	17:00	16:00	16:00	12:00	-	- 17:00	27 (2)	•	- 17:00 -	
Vol.	180	184	182	120		- 175		-	- 175 -	

 Grand Total
 1861
 2466
 2503
 1452
 0
 2412
 0
 0
 2412

 ADT
 ADT 2,409
 AADT 2,409
 AA

Location: Utica, NY Road:I-790 Eb Exit Ramp Segment: 234 Yards West of Genesee Street Technician: HD

Tri-State Traffic Data, Inc. TSTData.com (610) 466-1469

Site Code: 790/EB ramp Station ID: 0000000000000

Start Time	Mon 30 <u>-N</u> ov-15	Tue 01-Dec-15	Wed 02-Dec-15	Thu 03-Dec-15	Fri 04-Dec-15	Average Day	Sat 05-Dec-15	Sun 06-Dec-15	Week Average		
12:00 AM	*	21	20	20	#	20	*		20	i	
01:00		12	11	12		12	5,4		12 🎚		
02:00	*	15	16	25		19	*	*	19 📗		
03:00		19	9	16		15			15 🖺		
04:00		17	16	14		16	*	*	16 📳		
05:00	*	48	54	55	*	52	•		52	-	
06:00		120	123	107		117	*	4	117 🎚		
07:00	*	245	253	256		251	*		251		
08:00	248	267	259	245		255	*		255		
09:00	175	174	189	171		177		*	177	ARRES VI	
10:00	139	150	153	151	*	148		*	148		
11:00	153	129	136	151	*	142	ŵ	*	142		
12:00 PM	168	164	165	200		174		*	174		
01:00	155	173	169	171		167			167		
02:00	164	160	172	165	*	165			165		
03:00	221	218	206			215		*	215		
04:00	201	235	227	- 1		221	*		221		
05:00	214	218	220			217			217		-
06:00	116	119	151	.05		129	*		129		
07:00	81	83	98	*		87			87	-	
08:00	78	75	64	2.5	1000	72	•		72		
09:00	54	51	56	*		54			54		
10:00	34	43	47	*	0.00	41			41 📜		
11:00	38	37	42			39	*	5*	39		
Day Total	2239	2793	2856	1759	0	2805	0	0	2805		
% Avg. WkDay	79.8%	99.6%	101.8%	62.7%	0.0%						
% Avg. Week	79.8%	99.6%	101.8%	62.7%	0.0%	100.0%	0.0%	0.0%			
AM Peak	08:00	08:00	08:00	0 7:00	_	- 08:00		-	- 08:00		
Vol.	248	267	259	256		- 255	-	-	- 255	-	
PM Peak	15:00	16:00	16:00	12:00	-	- 16:00		-	- 16:00		
Vol.	221	235	227	200	11 = 2 +5	- 221			- 221	_	

Grand Total 2239 2793 2856 1759 0 2805 0 0 2805

ADT ADT 2,790 AADT 2,790

Location: Utica, NY Road: Genesee St Sb Segment: North of I-790 Eb Ramp Technician: HB Tri-State Traffic Data, Inc. TSTData.com (610) 466-1469

> Site Code: 0Genesee St. Station ID: 000000000000

Start Time	Mon 30-Nov-15	Tue 01-Dec-15	Wed 02-Dec-15	Thu 03-Dec-15	Fri 04-Dec-15	Average Day	Sat 05-Dec-15	Sun 06-Dec-15	Week Average	
12:00 AM	*	47	62	77	*	62	*		62 📟	
01:00		45	40	55	*	47		*	47	
02:00	*	31	31	34	*	32	*		32 📗	
03:00	*	32	23	19		25		*	25	
04:00	*	49	31	46	*	42	*	*	42 🏬	
05:00	*	87	83	83		84	*	(0.0)	84	
06:00	*	247	203	247	*	232	*	*	232	
07:00		558	532	566	*	552			552	
08:00	*	556	573	595	*	575	*		575	Sept. 1
09:00	523	491	470	489		493			493	
10:00	474	444	462	487	7.0	467	*		467	
11:00	498	517	468	492	(197)	494			494	
12:00 PM	587	627	699	579	1.0	623			623	TORRES -
01:00	568	595	562	589	101	578			578	
02:00	547	512	508	549		529	*		529	
03:00	582	530	552	*		555		- 6	555	
04:00	555	534	535	*	*	541	*		541	
05:00	534	525	550		*	536	*		536	
06:00	369	363	471	*	*	401		*	401	
07:00	340	291	295		*	309			309	
08:00	230	252	215	*	*	232	*		232	
09:00	159	177	211			182			182	100
10:00	110	103	134	*		116	*		116	
11:00	81	85	80	*		82			82	
Day Total	6157	7698	7790	4907	0	7789	0	0	7789	
% Avg. WkDay	79.0%	98.8%	100.0%	63.0%	0.0%			- <u>-</u> <u></u>		· · · · · · · · · · · · · · · · · · ·
% Avg. Week	79.0%	98.8%	100.0%	63.0%	0.0%	100.0%	0.0%	0.0%		
AM Peak	09:00	07:00	08:00	08:00	-	- 08:00		-	- 08:00	-
Vol.	523	558	573	595		- 575			- 575	-
PM Peak	12:00	12:00	12:00	13:00	-	- 12:00		-	- 12:00	-
Vol.	587	627	699	589	D	623		0	- 623	-

 Grand Total
 6157
 7698
 7790
 4907
 0
 7789
 0
 0
 7789

 ADT
 ADT 7,740
 AADT 7,740
 AA

Location: Utica, NY Road: Genesse Street Nb Segment: South of I-790 Eb Ramp Technician: HD Tri-State Traffic Data, Inc. TSTData.com (610) 466-1469

Site Code: 0Genesee St. Station ID: 0000000000000

	Week Average	Sun 6-Dec-15	Sat 5-Dec-15	Average Dev		Frl 04-Dec-15	Thu 03-Dec-15	Wed 02-Dec-15	Tue 01-Dec-15	Mon 30-Nov-15	Start Time
	85 🌉	*	*	85		*	86	86	82	*	12:00 AM
	60 📗	*	(#)	60			65	52	62		01:00
	46 👭	*		46		*	33	39	67	*	02:00
	59 🖥			59			53	64	60		03:00
	91	*		91			82	86	105		04:00
	145	n n		145			155	136	145		05:00
	315	*	*	315		•	335	325	286		06:00
- 1	543			543			560	520	548		07:00
	639	*		639			673	627	642	615	08:00
	722		*	722			741	715	721	711	09:00
	712	4	*	712			791	639	722	696	10:00
	820			820			796	849	815	819	11:00
	960		*	960			986	942	969	945	12:00 PM
	852		*	862		*	860	895	837	855	01:00
2000	929			929			1023	867	896	929	02:00
	1048	5.0/		1048		w		1047	1052	1045	03:00
	1213	*		1213		*	*	1230	1219	1189	04:00
	876			876			*	853	865	909	05:00
	538	*		538		*	*	535	514	566	06:00
	449			449			*	429	447	471	07:00
	374	*	25	374		*	*	363	375	383	08:00
1	337		*	337				515	270	225	09:00
	204	*	*	204			*	235	194	184	10:00
	128	*	*	128		-		145	133	107	11:00
	12155	0	0	12155		0	7239	12194	12026	10649	Day Total
						0.0%	59.6%	100.3%	98.9%	87.6%	% Avg. WkDay
		0.0%	0.0%	100.0%		0.0%	59.6%	100.3%	98.9%	87.6%	% Avg. Week
-	11:00		-	11:00	-	-	11:00	11:00	11:00	11:00	AM Peak
	820		-100	820			796	849	815	819	Vol.
-	16:00		-	16:00		-	14:00	16:00	16:00	16:00	PM Peak
	1213			1213		-	1023	1230	1219	1189	Vol.

 Grand Total
 10649
 12026
 12194
 7239
 0
 12155
 0
 0
 12155

 ADT
 ADT 12,036
 AADT 12,036

ATTACHMENT B Warrant Analysis





Table 2
Traffic Count Summary
Genesee Street and I790/TWY Ramp
WARRANT No. 1 Eight Hour Volumes

START		Genesee Stre	et		1790/TWY Ram	np	Warrant
TIME	NB	SB	Combined	1790	TWY	Combined	Met
12:00 AM	85	62	147	20	35	55	
1:00 AM	60	47	107	12	27	39	
2:00 AM	46	32	78	19	26	45	
3:00 AM	59	25	84	15	27	42	
4:00 AM	91	42	133	16	33	49	
5:00 AM	145	84	229	52	50	102	
6:00 AM	315	232	547	117	95	212	i.
7:00 AM	543	552	1095	251	168	419	
8:00 AM	639	575	1214	255	202	457	
9:00 AM	722	493	1215	177	166	343	
10:00 AM	712	467	1179	148	144	292	
11:00 AM	820	494	1314	142	145	287	
12:00 PM	960	623	1583	174	131	305	
1:00 PM	862	578	1440	167	128	295	
2:00 PM	929	529	1458	165	128	293	
3:00 PM	1048	555	1603	215	125	340	
4:00 PM	1213	541	1754	221	173	394	
5:00 PM	876	536	1412	217	175	392	
6:00 PM	538	401	939	129	143	272	
7:00 PM	449	309	758	87	90	177	
8:00 PM	374	232	606	72	67	139	
9:00 PM	337	182	519	54	53	107	
10:00 PM	204	116	320	41	46	87	
11:00 PM	128	82	210	39	35	74	

TOTAL 12155 7789 19944 2805 2412 5217 12

Major roadway exceeds minimum of 600 vph

500 2 OR MORE LANES & 2 OR MORE LANES 400 2 OR MORE LANES & 1 LANE 98M MINOR 1 LANE & 1 LANE STREET 300 . 1 PM , 2PM , 48M e Uhm HIGHER-VOLUME 200 APPROACH -**VPH** 115* 100 80* 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 MAJOR STREET-TOTAL OF BOTH APPROACHES-**VEHICLES PER HOUR (VPH)** MET WARRANT

Figure 4C-1. Warrant 2, Four-Hour Vehicular Volume

*Note: 115 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 80 vph applies as the lower threshold volume for a minor-street approach with one lane.

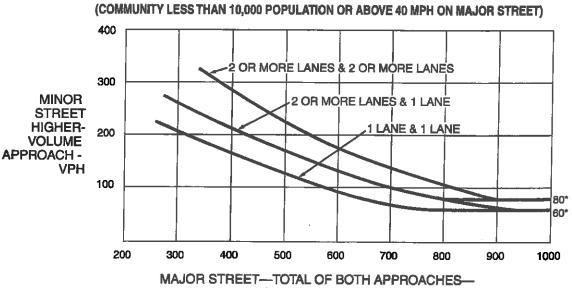


Figure 4C-2. Warrant 2, Four-Hour Vehicular Volume (70% Factor)

VEHICLES PER HOUR (VPH)

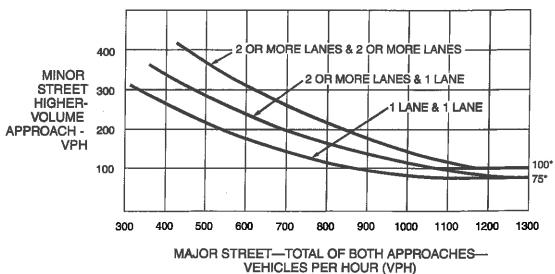
*Note: 80 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 60 vph applies as the lower threshold volume for a minor-street approach with one lane.

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Figure 4C-3. Warrant 3, Peak Hour 600 500 2 OR MORE LANES & 2 OR MORE LANES 5 PW MINOR 400 STREET 2 OR MORE LANES & 1 LANE HIGHER-300 **VOLUME** -1 LANE & 1 LANE APPROACH -VPH 200 100 100* 400 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 MAJOR STREET-TOTAL OF BOTH APPROACHES-**VEHICLES PER HOUR (VPH)**

*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor-street approach with one lane.

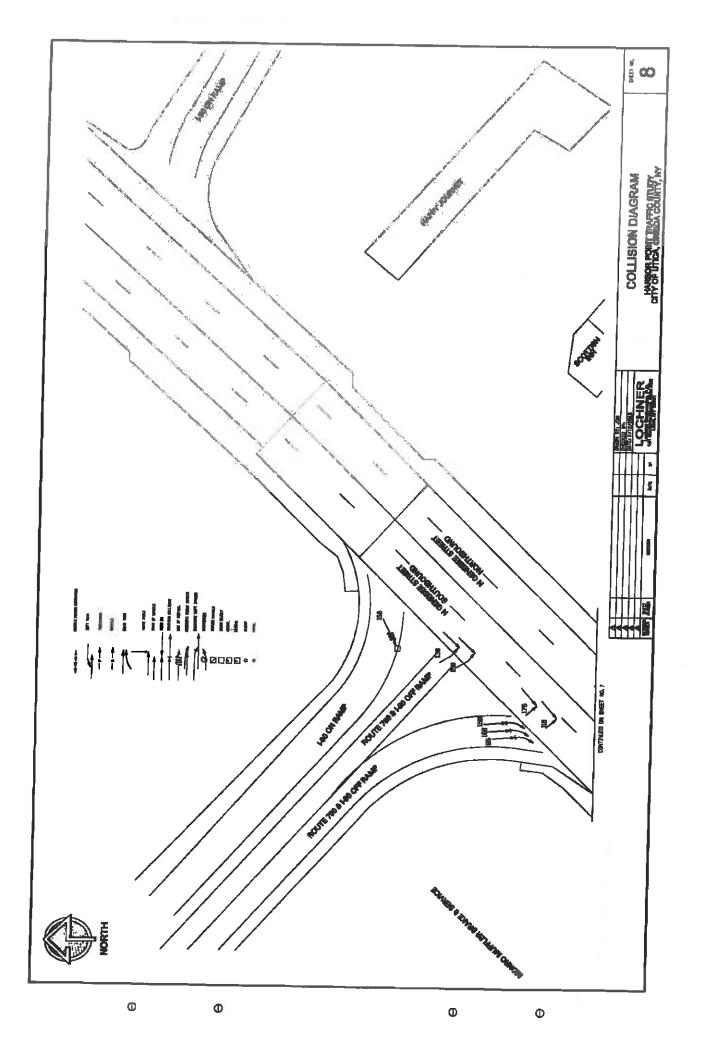
accidents involved the pedestrian being intoxicated. The majority of the accidents were associated with vehicles entering and exiting North Genesee Street.

I-90 Off-ramp at North Genesee Street

This is a three-legged intersection with the off-ramp of I-90 (Thruway) and Route I-790 sharing the same approach to Genesee Street. The ramp approach is stop sign controlled and includes separate right and left turn lanes.

The majority of accidents at this intersection are rear end accidents (3) caused by inattentive drivers looking at approaching Genesee Street traffic and rear-ending the vehicle in front of them that had not entered onto Genesee Street. Two of the right angle accidents involved vehicles making a left turn from the off-ramp onto northbound North Genesee Street. There are also two right-angle accidents involving vehicles turning right from the I-90 off-ramp onto southbound North Genesee Street. Intersection sight distance may have been a contributing factor to these accidents as turning vehicles had difficulty seeing the approach southbound vehicles. Guiderail and bridge rail associated with the structure carrying Genesee Street over Reall Creek impacts the sight distance to the left.

Improving Intersection sight distance for vehicles entering Genesee Street could improve the conditions at this intersection.



DESIGNED BY BO	M DATE 11-21-15	PROJECT Harbor Point SHEET NO OF
CHECKED BY	DATE	SUBJECT Synal Wawant Styly JOB NO. 10083
WARRANT	4, PEDESTRIAN	VOLUME
-	MINIMAL PEDESTRI	AN TRAFFIC -
No.	WARRANT NOT	APPLICABLE
WARRANT	5, SCHOOL CROSSI	NG.
	INTERSECTION IS NOT	A SCHOOL CROSSING LOCATION
	WARRANT NOT AR	PLICABLE
	APPROX : MATELY 1240 MIN WHERE WARRANT	TION AT MERKINGER ROAD IS A FROM RAMP INTERSECTION > 1000 FT WOULD NOT APPLY NOT PART OF OR WITHIN THE DARDINATED SYSTEM
-T/	HAT MIGHT BE CORRECT	DEWTS OVER A THREE YEAR PERIOD ED BY INSTALL ATION OF A SIGNAL HE FIVE OR MORE PER YEAR OF ACHED FROM ACCIDENT STUDY

WARRANT THE				C GREATER	THAN DOO UP	L AND
	Y MEGTS			AND 3. POWN	TANK UTO	a th
				NOBE CONS		
	71415	WARRAINT	CAN BE	CONSIDER ED	AS BENG	MET
WARRANT 9	INTERS	ECTION	NEAR A	GRADE C	20551116	
TH	15 WARRI	ANT 15	NOT APP	LICABLE		

ATTACHMENT C Level of Service Analysis

Existing Conditions



i_c	

	ঙা	N	2	<i>F</i>	K	*	7	Я	74	Ĺ	×	12
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		4		7	To.		7	11	7	7	11	7
Traffic Volume (veh/h)	0	0	5	275	0	30	5	485	150	100	815	5
Future Volume (veh/h)	0	0	5	275	0	30	5	485	150	100	815	
Number	3	8	18	7	4	14	5	2	12	1	6	16
Initial Q (Qb), veh	_	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1:00		1.00	1.00		1.00	1.00		1.00	1,00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h	0	0	6	296	0	32	5	533	165	114	926	6
Ad No of Lanes	Q	1	Q	1		0	1	2	1	1	2	1
Peak Hour Factor	0.90	0.90	0.90	0.93	0.93	0.93	0.91	0.91	0.91	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	Ô	0	376	434	0	376	291	1211	542	409	1741	779
Arrive On Green	0.00	0.00	0.24	0.24	0.00	0.24	0.34	0,34	0.34	0.08	0.49	0.49
Sat Flow, veh/h	0	0	1583	1404	0	1583	598	3539	1583	1774	3539	1583
Srp Volume(v), veh/h	Ű	Ö	6	296	Ď	32	5	533	165	114	926	6
Grp Sat Flow(s),veh/h/ln	0	0	1583	1404	Ô	1583	598	1770	1583	1774	1770	1583
O Serve(g_s), s	0.0	0.0	0.2	14.1	0.0	1,1	0.4	80	5.3	2.5	12.4	0.1
Cycle Q Clear(g_c), s	0.0	0.0	0.2	14.3	0.0	1.1	2.5	8.0	5.3	2.6	12.4	0.1
Prop to Lane	0.00		1.00	1.00		1.00	1.00		1.00	1,00		1.00
Lane Grp Cap(c), veh/h	0	0	376	434	0	376	291	1211	542	409	1741	779
V/CRANO(X)	0.00	0,00	0.02	0.68	0.00	0.09	0.02	0.44	0.30	0.28	0.53	0.01
Avail Cap(c_a), veh/h	0	0	390	446	0	390	346	1539	688	452	2154	964
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1,00	1,00	100	1,00	1,00	1,00	1.00
Upstream Filter(I)	0.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Juliom Delay (d), siveh	0.0	0.0	20.4	25.5	0.0	20.5	16.5	17.6	16.7	12.1	12.1	8.9
Incr Delay (d2), s/veh	0.0	0.0	0.0	4.6	0.0	0.1	0.0	0.4	0.4	0.1	1.2	0.0
Initial C Delay(d3) sheb	0.0	0.0	0,0	6.0	0,0	0.0	0.0	0.0	0.0	0,0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	0.1	6.0	0.0	0.5	0.1	4.0	2.4	1.3	6.3	0.1
Lifero Delay(d) s/zeki	0.0	0,0	20)	30.2	M	24	16.4	(7.5)	17.	12.2	13.2	9,0
LnGrp LOS			Č	C	. Maril 7	C	В	В	B	В	В	A
Approach Vol. véh/h		6			328			703			1046	
Approach Delay, s/veh		20.1			29.3			17.7			13.1	
		Ç			6			8			В	
Timer	- 3	- 2	3.	4	11 (5)	- 6	7/	8		Land II		
Assumed Phs	7	Ž		4		6		ō				
Phs Duration (G+Y+Rc), s	10.3	28.6		21.4		38.9		21.4				
Change Period (Y+Rc), s	5.0	5.0		5.0		5.0		5.0				
Max Green Setting (Gmax), s	7.0	30.0		17.0		42.0		17.0				
via te clear ime (0.66)) s	4.5	10.0		16.3		14.4		22				
Green Ext Time (p_c), s	0.0	13.6		0.1		17.0		1.5				
Intersection Summary	V.V	10.0		V. I		11.10						
			47.0									
HCM 2010 Ctrl Delay			17.2									
HCM2010 LOS			5							- EM		

3: Genesee St & Harbour Lock Rd

Intersection				117					-					- 11
Int Delay, s/veh	0.1													L
Movement	SEL	SET	SER	9.0	NWL	NWI	NWR		NEL	NET	NER	SWL	SWI	SWR
Traffic Voi, ven/n	0	0	10		0	Q.	- 5		0	525	5	Û	915	25
Future Vol, veh/h	0	0	10		0	0	5		Ō	525	5	0	915	25
Conflicting Peds, #/hr	0	0	0		0	. 0	Ó		0	0	0	0	0	(
Sign Control	Stop	Stop	Stop		Stop	Stop	Stop		Free	Free	Free	Free	Free	Free
RT Channelized		D.	Stop		-		Stop		5	· · · · · · · · · · · · · · · · · · ·	None		-	None
Storage Length		-	Ô		-	_	0			-				
Veh in Median Storage, #		0			_	0		-	- 5	0	115		0	
Grade, %	_	0	-		-	0	-		_	0	-	-	Ö	
Peak Hour Factor	92	92	92		92	92	92		92	92	92	92	92	92
Heavy Vehicles, %	2	2	2		2	2	2		2	2	2	2	2	2
Mvmt Flow	0	0	11	*	0	0	5		Ō	571	5	Ó	995	27
Major/Mingr	Minor2				MinorT			h	Ивјот1	_	_	Major2		
Conflicting Flow All	1293	1584	511		1070	1595	288		1022	0	0	576	Λ	
Stage 1	1008	1008	311		573	573	200		1022				0	0
Stage 2	285	576			497	1022	•			-		2	-	
Critical Hdwy	7.54	6.54	6.94		7.54	6.54	0.04		144	-		-		7,
Critical Hdwy Stg 1	6.54	5.54					6.94		4.14	 .		4.14		. 4
Critical Howy Stg 2	6.54		-		6.54	5.54				_	-			
		5.54	2 22		6.54	5.54	0.00		0.00		10	0.00	-	
Follow-up Hdwy	3.52	4.02	3.32		3.52	4.02	3.32		2.22			2.22		_
Pot Cap-1 Maneuver	120	107	508		175	106	709		675		-	993	-	
Stage 1	258	316			472	502			-	-	-	-	_	_
Stage 2	698	500			523	312	4	_				*	-	
Platoon blocked, %	7114			12	nare.				4.9/	-	-		_	_
Mov Cap-1 Maneuver	119	107	508		171	106	709		675	3	-	993	-	6
Mov Cap-2 Maneuver	119	107			171	106			-		-	-	-	-
Stage 1	258	316	-		472	502	C _a		- 1-	7		-		v e
Stage 2	693	500		= 11	512	312			-	3			-	
Approach	SE	Ш	M	Ш	NW				NE		وللرو	SW		
HCM Control Delay, s	12.2				10.1				.0			0		
HCM LOS	В				В									_
Minor Lane/Major Mvmt	NEL	NET	NER	WLnt	SELIN	SWL	SWI	SWR				-		
Capacity (ven/h)	675			709	508	993	-	(* 1						100
HCM Lane V/C Ratio	.21.7	-	-	0.008				1						-
HCM Control Delay (s)	0		100	10.1	12.2	0	-							-
HCM Lane LOS	Ā	000		В	В	A	_							
HCM 95th %tile Q(veh)	0			0		Ô	1100							
The second second second		150		V	V. 1		198	- 5						

Intersection			410				4.20				Ш	
Int Delay, s/veh	0.3											
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	ŚWŁ	SWT	SWR
Tranic Vol, veh/h	Û	Ū	10	0	Û	20	20	620	25	0	1035	60
Future Vol, veh/h	0	0	10	0	0		20	620	25	0	1035	60
Conflicting Peds, #/hr	0	0	Ö	D	D	0	0	D	0	Ò	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	Stop	•	-	Stop		1	Free	Ė	-	None
Storage Length	-	-	0	-	(-	0	160	-	-		-	0
Veh In Median Storage, #	4	0	-	1	0	-	4	0		15.	0	
Grade, %	-	0	-	-	0	-	-		-		0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	
Myraf Plaw	0	0	11	0	Ô	22	22	674	27	0	1125	65
Major/Minor	Minor2	2.1		Minort			Major1			Major2		
Conflicting Flow All	1438	1842	563	1280	1842	337	1125	0	-	674	0	0
Stage 1	1125	1125		717	717		- 4	3	4	Á		* §.
Stage 2	313	717	-	563	1125			-	-	-		_
Critical Howy	6.99	6.54	6.94	6.99	534	7.14	4 14		-	5,34	7	
Critical Howy Stg 1	6.54	5.54	-	7.34	5.54		, and and the second			-	-	_
Critical Howy Stg 2	6.74	5.54	÷	6.54	5.54		4	į.		-	-	-
Follow-up Hdwy	3.67	4.02	3.32	3.67	4.02	3.92	2.22	-	-	3.12	-	-
Pol Cap 1 Maneuver	115	74	470	146	73	562	617	- 2	Ō	561	÷	4
Stage 1	214	278		321	432	, WG-03(7-99)	-	-	0	-	-	-
Stege 2	638	432	2 7	484	278	- 6		£	0	T.		*
Platoon blocked, %	_ 54545.986						<u></u>	¥3	- 45		-	-
Mov Cap-1 Maneuver	108	71	470	139	7	562	617	3		561	ŧ	
Mov Cap-2 Maneuver	108	71	-	139	71	. 285.	- 2272	-	-	-		-
Sape 1	206	278	45	340	417	(4)	4	+	2		(*)	4
Stage 2	591	417	-	453	278	::#:	-	-	•	_		-
Approach	SE			NW			NE		20 11	SW		
(CV-Control Delay, 8	12.6			14.7			0,3			0	W	
HCM LOS	В			В			,7 59K.			,£ ,.		
Minor Lane/Major Mymt	NEL	NETN	IWLn1 S	ELM1 SWL	SWT	SWR	U E U U					
Sapacity (veh/h)	617		562		3	220						
HCM Lane V/C Ratio	0.035		0.039	0.023 -	- ii	-						
H-M (Control Célay (s)	11	Ž	11,7	20 0	3							
HCM Lane LOS	B		В	B A		3 -						
HCM 95th %tile Q(veh)	0.4	à	0.7	0.1 0	3							
	. The	<u></u> - <u></u>	MARK.	- dist	. 5	. x.						

Intersection		515				-				9 7 9 9			7
Int Delay, s/veh	0.7											_	
Movement	SEL	SET	SER		MWL	NWT	NWR	NEL	NET	NER	SWL	SWI	SWF
Traffic Vol, veh/h	5	0	15		10	0	10	15	475	25	15	895	20
Future Vol. veh/h	5	Ö	15		10	0	10	15		25	15	895	20
Conflicting Peds, #/hr	Ó	0	0		0	0	0	0		0	0	050	(
Sign Control	Stop	Stop	Stop		Stop	Stop	Stop	Free		Free	Free	Free	Free
RT Channelized	7.77		None			0.05	None	1100	1100	None	1100	1100	None
Storage Length	59		_		-		-	190		-	20	-	140110
Veh in Median Storage, #		0			- 1	Ő		100		_	-	0	
Grade. %	- 12	0				Ö	-					Ö	
Peak Hour Factor	92	92	92		92	92	92	92	_	92	92	92	92
Heavy Vehicles, %	2	2	2		2	2	2	2		2	2	2	2
Mymt Flow	5	ō	16		11	Ō	11	16	516	27	16	973	22
No.													
Major/Minor	Minor2	_ 4		1	Vinar1			Majort			Major2		
Conflicting Flow All	1307	1592	497		1081	1589	272	995	0	0	543	0	C
Stage 1	1016	1016	-		562	562	-		+.	-			
Stage 2	291	576	-		519	1027	-	-	-	-	_	-	
Critical Hdwy	7.54	6.54	6.94		7.54	6.54	6.94	4 14	-		4.14		
Critical Hdwy Stg 1	6.54	5.54	-		6.54	5.54	-	_	-	-		-	
Critical Hdwy Stg 2	6.54	5.54	-		6.54	5.54	- L	-				-	
Follow-up Hdwy	3.52	4.02	3.32		3.52	4.02	3.32	2.22	- 2	-	2.22	-	
Pot Cap-1 Maneuver	117	106	519		172	107	726	691	-	-	1022	-	
Stage 1	255	314	2		479	508	-	- 7-			5 K		
Stage 2	693	500			508	310	1167			100			
Platoon blocked, %									-	_			
Mov Cap-1 Maneuver	112	102	519		162	103	726	691	-	_	1022		
Mov Cap-2 Maneuver	112	102	-		162	103		-	_	-			
Stage 1	249	309	-		468	496	1727						
Stage 2	667	488	-		484	305	(4)		-	- 1	-	-	-
Approach	SE	_	_	_	KIMAL			6.10			-8100		
HCM Control Delay, s	19.4				NW.			NE			SW		
HCM LOS	19.4 C				19.8 C			0,3			0.1		
	N. O. C.	- Lane	College at The		and the second	-					T		
Minor Lane/Major Mymt	NEL	NET	NEF				SWT	SWR					
Capacity (veh/h)	691		-	265		1022	S*3	-					
HCM Lane V/C Ratio	0.024	_	-	0.082		0.016	-	-					
HCM Control Delay (s)	10.3			19.8	19.4	8.6	7						
HCM Lane LOS	В	-	-	С	C	A	-	-					
HCM 95th %tile Q(veh)	0.1	<u> </u>		0.3	0.3	0	_						

Intersection			227-0		HIR			- 11	
int Delay, s/veh 6	.7								
Movement	SEL	SER	N	EL NET		SWT	SWR	and the same	000
Traffic Vol., veh/h	25	455		0 530		485		-	=
Future Vol, veh/h	25	455		0 530		485			
Conflicting Peds, #/hr	0	0		0 0		Ò	0		
Sign Control	Stop			ee Free		Free			
RT Channelized		Stop		- None			None		
Storage Length	Ó	0		v . va. Turki Est san.		_			
/eh in Median Storage, #	Ō	*		- 0		0	-		
Grade, %	Ö			- 0		Ö	-		
Peak Hour Factor	92	92		92 92		92	92		
Heavy Vehicles, %	2	2		2 2		2			
Mymt Flow	27	495		0 576		527	76		
Karatana Karata .	.57			.YTV-E		77%			
Major/Minor	Minor2		Majo			Major2	80	DIE	
Conflicting Flow All	853	302	6	03 0			0		
Stage 1	565	-		# #			(#)		
Stage 2	288			-		:	-		
Ontical Howy	6.84	6.94	4	14 -		-	-		
Critical Hdwy Stg 1	5.84			- 1-			5 <u>#</u> \$		
Critical Howy Stg 2	5.84			• •			•		
ollow-up Hdwy	3.52	3.32	2.	22 -		-			
Pot Cap-1 Maneuver	298	694	9	71					
Stage 1	532	علىمنىك:	- ,:27	- (-					
Stage 2	735	·		3		÷	=		
Platoon blocked, %	\$272			-		-	-		
Mov Cap-1 Maneuver	298	694	9	71 6		-	-		
Mov Cap-2 Maneuver	298					-	-		
Stage 1	532			÷ #		i i	4		
Stage 2	735					-	-		
	. =4.01								
Approach	SE		- 0	E	4	SW		LL, KL	
HCM Control Delay, s HCM LOS	21,8 C			Q		9			
Minor Lane/Major Mvmt	NEL	NET SELDT	SELn2 SV	T SWR					
apacity (ven/n)	971	- 298	094	7 .7					Ī
ICM Lane V/C Ratio		- 0.091	0.713	. sa					
ICM Control Delay (s)	Ö	- 18.3	22	2 2					
HCM Lane LOS	A	- C	C	. 0					
ICM 95th %tile Q(veh)	0	. 0.3	6	<u> </u>					

	4	×	À	100	K	₹	7	A	a	Ĺ	K	100
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		4		7	1 >		٦	44	7	7	^	7
Traffic Volume (veh/h)	5	5	5	280	0	65	5	735	220	90	675	5
Future Volume (veh/h)	5	5	5	280	Ō	65	5	735	220	90	675	5
Number	3	8	18	7	4	14	5	2	12	1	6	16 0
Initial Q (Qb), veh	Ő	0	Ô	0	0	Ô	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h	5	5	5	329	0	76	6	845	253	94	703	5
Adj No. of Lanes	O	1	0	1	Ť	0	1	2	1	1	2	1
Peak Hour Factor	0.98	0.98	0.98	0.85	0.85	0.85	0.87	0.87	0.87	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	0.98 2	2	2	2	2	2	2	2	2	2
Cap, veh/h	168	165	132	451	0	390	389	1368	612	332	1881	842
Arrive On Green	0.25	0.25	0.25	0,25	0.00	0.25	0.39	0.39	0.39	0.07	0,53	0.53
Sat Flow, veh/h	401	668	534	1399	0	1583	738	3539	1583	1774	3539	1583
Grp Völume(v), veh/h	15	0	Ò	329	Ø	76	6	845	253	94	703	5
Grp Sat Flow(s),veh/h/ln	1603	0	Ô	1399	Ō	1583	738	1770	1583	1774	1770	1583
Q Serve(g_s), s	0.0	0.0	0.0	15.4	0.0	2.6	0.3	13.3	8.1	2.0	8.0	0.1
Cycle Q Clear(g_c), s	0.4	0.0	0.0	15.8	0.0	2.6	0.3	13.3	8.1	2.0	8.0	0.1
Prop In Lane	0.33		0.33	1,00		1 00	1,00		1.00	1,00		1.00
Lane Grp Cap(c), veh/h	464	0	0	451	0	390	389	1368	612	332	1881	842
V/C Ratio(X)	0.03	000	0.00	0.73	0.00	0.19	0.02	0.62	0.41	0.28	0.37	0.01
Avail Cap(c_a), veh/h	464	0	0	451	0	390	425	1539	688	384	2154	964
ACM Platoon Ratio	1.00	1,00	100	100	1,00	1 00	1.00	1.00	1.00	100	120	1,00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), siveh	19.8	0.0	0.0	25.5	0.0	20.6	13 1	17 1	15.5	116	9.4	7.6
Incr Delay (d2), s/veh	0.0	0.0	0.0	6.4	0.0	0.3	0.0	0.8	0.6	0.2	0.6	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0,0	0.0
%ile BackOfQ(50%),veh/in	0.2	0.0	0.0	6.9	0.0	1.2	0.1	6.6	3.6	1.0	4.1	0.0
in Grip Delay(d), s/veh	19.8	0.0	0,0	31.9	00	20,9	13.1	17.9	16 1	11.8	10.0	7.6
LnGrp LOS	В	Allenten		C		C	В	В	В	В	В	Ā
Approach Vol. vehih		15			405			1,104			802	
Approach Delay, s/veh		19.8			29.8			17.4			10.2	
Approach LGS		В			C			8			a	
Tiner	- 1	24	31	4	5	- 6	177	8			18 11	
Assigned Phs	1	2		4		6		ĕ				
Phs Duration (G+Y+Rc), s	10.0	31.7		22.0		41.7		22.0				
Change Period (Y+Rc), s	5.0	5.0		5.0		5.0		5.0				
Max Green Setting (Gmax), s	7.0	30.0		17.0		42.0		17.0				
Max Q Clear Time (g_c+11), s	4,0	15.3		17.8		10.0		24				
Green Ext Time (p_c), s	0.0	11.4		0.0		20.3		2.1				
Intersection Summary				Harris .	1						2200	
HCM 2010 Ctrl Delay			17.1									
HCM 2010 LOS			17.1 B									

North Genesee Existing (2015) Timing Plan: Mid Day

Intersection	52 3 5						THE RES	-	1110	-1111		
Int Delay, s/veh	0.2							Ξ				
Movement	SEL	SET	SER	NVVL	NWT	NVR	NEL	NET	NER	SWL	SWI	SWF
Traffic Vol, veh/h	0	0	15	0	. 0	15	0	755	25	0	700	18
Future Vol, veh/h	0	0	15	Ö	0	15	Ö	755	25	Ö	700	18
Conflicting Peds, #/hr	Ó	0	0	0	0	. 0	Ó	0	-0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	816	-	Stop			Stop			None		_	None
Storage Length	-	-	Ö	£5	_	Ö			-	12	_	
Veh in Median Storage, #		0			0			0		1	Ó	
Grade, %		0	-	45	0	-		0	-	51	Ō	
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvint Flow	0	0	16	0	0	16	0	821	27	ō	761	16
Major/Minor	Minor2	_	_	Minort			Malaut	_		18301100	_	_
Conflicting Flow All	1179	1617	389	1214	4044	404	Major1			Major2		
Stage 1	769	769			1611	424	777	0	0	848	0	C
Stage 2	410	848	2	834	834	- 6		-	-			
Critical Hdwy	7.54	6.54	6.94	380	777	-		-				
Critical Hdwy Stg 1	6.54	5.54	0.94	7.54	6.54	6 94	4.14	-		4.14		
Critical Howy Stg 2				6.54	5.54		-		-	-	-	
Follow-up Hdwy	6.54	5.54	2 20	6.54	5.54		2.00	-	-		- 1+	- 1
	3.52	4.02	3.32	3.52	4.02	3.32	2.22	_		2.22		
Pot Cap-1 Maneuver	146	103	610	137	103	579	835		. =	785	-	1.7
Stage 1	360	409	- 2	329	381	_		_		-		
Stage 2	589	376		614	405	-	-	-	-	5	32	1
Platoon blocked, %	440	400	040	100	4.60		*****	_	- 3	-11 2 -11	- 2	
Mov Cap-1 Maneuver	142	103	610	133	103	579	835	-		785	-	
Mov Cap-2 Maneuver	142	103		133	103		- 72	- 4	- 3	-	-	_
Stage 1	360	409	-	329	381	(2)	租	- 2		-		
Stage 2	572	376		598	405			- *				JOS
Approach	SE			NW			NE			SW	-	
HCM Control Delay, s	11.1			11.4			0			0		
HCM LOS	В			В			·			¥.		_
Vinor Lane/Major Mymt	NEL	NET	NEDWA	VLn1 SELn1	SWL	SWI	SIND					
Capacity (veh/h)	835	441-4	342,444	579 610			SITTLY					
HCM Lane V/C Ratio	0.71	-		.028 0.027	785	H	15.00					
HCM Control Delay (s)	0			11.4 11.1	0	_						
HCM Lane LOS	A				0		. =					
HCM 95th %tile Q(veh)	0		٠		A		-					
I IONI SOUI MUIE CI(VEII)	U		0.75	0.1 0.1	0	37	*:					

Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1	SEL 0 0 0 0 Stop 92 2 0 0	SET 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30 30 0 Stop Stop 0 		0 0 0 Stop	O O O Stop	40 40 0 Stop Stop	5 5 0 Free	920 920 920 0 Free	15 15 0 Free	5WL 0 0 0	920 920 0	40 40
Traffic Vol, veh/h Future Vol, veh/h Conflicting Peds, #/hr Sign Control RT Channelized Storage Length Veh in Median Storage, # Grade, % Peak Hour Factor Heavy Vehicles, % Mvmt Flow Major/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Critical Hdwy Stg 1	0 0 0 Stop 	0 0 0 Stop 0 0 92 2	30 30 0 Stop Stop 0 -		0 0 0 Stop	0 0 0 Stop	40 40 0 Stop Stop	5 5 0	920 920 0	15 15 0 Free	0 0 0	920 920	40 40
Traffic Vol, veh/h Future Vol, veh/h Conflicting Peds, #/hr Sign Control RT Channelized Storage Length Veh in Median Storage, # Grade, % Peak Hour Factor Heavy Vehicles, % Mvmt Flow Major/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Critical Hdwy Stg 1	0 0 Stop 	0 0 Stop 0 0 92 2	30 0 Stop Stop 0 - - 92 2		0 0 Stop -	0 0 Stop	40 0 Stop Stop	5 0	920 0	15 0 Free	0 0	920	40
Future Vol, veh/h Conflicting Peds, #/hr Sign Control RT Channelized Storage Length Veh in Median Storage, # Grade, % Peak Hour Factor Heavy Vehicles, % Mvmt Flow Magnificant Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1	0 0 Stop 	0 0 Stop 0 0 92 2	30 0 Stop Stop 0 - - 92 2		0 0 Stop -	Stop	Stop Stop	5 0	0	0 Free	0 0		40
Conflicting Peds, #/hr Sign Control RT Channelized Storage Length Veh in Median Storage, # Grade, % Peak Hour Factor Heavy Vehicles, % Mymt Flow Major/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Critical Hdwy Stg 1	Stop	Stop 0 0 92 2	Stop Stop 0 - - 92 2		Stop -	Stop	Stop Stop			Free	and the same from the	Ô	n
Sign Control RT Channelized Storage Length Veh in Median Storage, # Grade, % Peak Hour Factor Heavy Vehicles, % Mvmt Flow Major/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1	92 2 0	0 0 92 2	Stop Stop 0 - - 92 2		-	<u> </u>	Stop	Free	Free		Free		0
RT Channelized Storage Length Veh in Median Storage, # Grade, % Peak Hour Factor Heavy Vehicles, % Mvmt Flow Major/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1	92 2 0	0 0 92 2	92 2				and the state of the state of		_ 7	-		Free	Free
Veh in Median Storage, # Grade, % Peak Hour Factor Heavy Vehicles, % Mymt Flow Major/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1	92 2 0	0 0 92 2	92 2							Free	-	. 7.	None
Grade, % Peak Hour Factor Heavy Vehicles, % Mymt Flow Magn/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1	92 2 0	92	92 2			-	0	160	-	-		-	0
Peak Hour Factor Heavy Vehicles, % Mvmt Flow Magnification Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1	92 2 0	92	92			Ô	1	-	0	-	-	0	
Heavy Vehicles, % Mvmt Flow Major Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1	0	2	2		-	0	-	-	0	-	-		_
Mymt Flow Major/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1	0				92	92	92	92	92	92	92	92	92
Major/Minor N Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1		0	20		2	2	2	2	2	2	2	2	2
Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1	dinor2		33		0	0	43	5	1000	16	0 ;	1000	43
Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1			000	:Mi	nord			Majort		ALT D	Major2		
Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1	1411	2011	500		1511	2011	500	1000	0		1000	0	0
Stage 2 Critical Hdwy Critical Hdwy Stg 1	1000	1000	2		1011	1011	-	~	3		<u>।</u>	1	
Critical Howy Critical Howy Stg 1	411	1011			500	1000	-		-		-	-	-
Critical Hdwy Stg 1	6.99	6.54	6,94		6.99	6,54	7 14	4.14		#	5.34	-	-
	6.54	5.54	, 18492-41		7.34	5.54		. 315 15 . 1 .	-	-	= 40/500 · ·	-	-
Critical Howy Stg 2	6.74	5.54	+	i i	6:54	5.54	•	± .	-	*	1	T =	7
Follow-up Hdwy	3.67	4.02	3.32		3.67	4.02	3.92	2.22	-	-	3.12	-	_
Pol Cap-1 Maneuver	119	58	516		102	58	442	688	+0	0	391	(0)	4
Stage 1	254	319	_ 59mm×12% _	**	200	315	Special State of	- 1420 CELS	_	0		-	-
Stage 2	556	315	- 20		505	315	-	1 3	- 4	Ô	#		7
Platoon blocked, %		. al. Mei.			22:000							-	-
Mov Cap-1 Maneuver	107	58	516		95	58	442	688	÷		391	- E	-
Mov Cap-2 Maneuver	107	58	-		95	58	-	-	-	-	-	-	-
Stage 1	252	319			199	313			-	13		93	7
Stage 2	498	313	-		473	319				_	_	-	
Approach	SE		100		NW			NE		(IN)	SW		
HCM Control Delay, s	12.4				14			9.1			Q		
HCM LOS	В				B			. 281.72			. 14-		
Minor Lane/Major Mymt	NEL	NETN	WLn1:	SELM1 5	SWL	SWT	SWR		UL E		U. D. TI	DO 1	
Capacity (ven/n)	555	7	942	510	391	- 1							
HCM Lane V/C Ratio	0.008		0.098	0.063	-	-	-						
HCM Control Delay (s)	10.3	7	14	124	Ö	-	12						
HCM Lane LOS	В	-	В	В	Â	-							
HCM 95th %tile Q(veb)	ð	1	0.3	0.2	0		-						

Intersection											1000	
Int Delay, s/veh	0.8											
Movement	SEL	SET	SER	NW	L NWT	NWR	NEL	NET	NER	SWL	SWT	SWE
Traffic Vol, veh/h	15	0			5 0		20	750	35	15	755	20
Future Vol, veh/h	15	Ŏ			5 0		20	750	35	15	755	20
Conflicting Peds. #/hr	0	0	0		0 0		0	0	0	0	0	20
Sign Control	Stop	Stop	Stop	Sto	7		Free	Free	Free	Free	Free	Free
RT Channelized			None				1100	-		- 1100	1166	None
Storage Length	14		-			-	190	_	-	20		ITOH
Veh in Median Storage, #	- 4	Ö	-		- 0		100		2	20	0	
Grade, %	54	0			- 0			Ö	-		0	
Peak Hour Factor	92	92	92	Ç	2 92		92	92	92	92	92	92
Heavy Vehicles, %	2	2	2		2 2		2	2	2	2	2	2
Mvmt Flow	16	0	11		5 0		22	815	38	16	821	22
Major/Minor	Minor2		_	Minor	4)	_	Major1	_		Printella	_	_
Conflicting Flow All	1315	1761	421	132		427	842	_		Major2	_	
Stage 1	864	864	421	87				0	0	853	0	
Stage 2	451	897		44		-	-	-	=*		~	33
Critical Howy	7.54	6.54	6.94	7.5		6.94	4.14		-	4 4 4		
Critical Hdwy Stg 1	6.54	5.54	0.54	6.5		0.84	4.14	-		4.14	· .	
Critical Howy Stg 2	6.54	5.54		6.5				_				
Follow-up Hdwy	3.52	4.02	3.32	3.5			2.22	-	120	2.22	-	3
Pot Cap-1 Maneuver	116	84	581	11		576	789	-	- 54	782		25
Stage 1	315	369	JU 1	30		3/0	103			102	*	-
Stage 2	557	357	_	56		_			(3)		_	
Platoon blocked, %	001	001			T 100		-	-		-	1	
Mov Cap-1 Maneuver	111	80	581	10	9 80	576	789	-		782		-
Mov Cap-2 Maneuver	111	80	-	10		21.0	(03	- 6		702		12
Stage 1	306	361		30		_		- 3				_
Stage 2	536	347	-	54 54				-	-	- 2		
Approach	SE	=		NV	V		NE			SW		
HCM Control Delay, s	31.3			25			0.2			0.2		
HCM LOS	D				Ö		V-2			0.2		
Minor Lene/Major Mvmt	NEL	NET	NERN	WLn1 SELn	SWL	SWT	SWR		000	23300		
Capacity (veh/h)	789					10-			1200			
HCM Lane V/C Ratio	0.028	-		0.059 0.16		1000	*					
HCM Control Delay (s)	9.7	100		25.9 31		(67	8					
HCM Lane LOS	Α	-	-	D I	1	062	-					
HCM 95th %tile Q(veh)	0.1		+	0.2 0.		(#)						

Intersection	- 2	70.00	5 - 15		A STATE OF THE PARTY OF THE PAR	11.5	- 1-	
Int Delay, s/veh	2.3							
Aovement	SEL	SER	NEL	NET	SWT	SWR		
Traffic Vol, veh/h	20	250	Û	770	465	40		
Future Vol, veh/h	20	250	Ö	770	465	40		
Conflicting Peds, #/hr	0	0	0	0	0	Ō		
Sign Control	Stop	Stop	Free	Free	Free	Free		
RT Channelized	-	Stop		1000 0000		None		
Storage Length	0	0	-	- 3.7		-		
Veh in Median Storage, #		-	-	0	0			
Grade, %	0	-	74	Ö	Ö Ö	-		
Peak Hour Factor	92	92	92	92	92	92		
Heavy Vehicles, %	2	2	2	2	2	2		
Mymt Flow	22	272	Ŏ	837	505	43		
Major/Minor	Minor2		Majort		Major2	-		
Conflicting Flow All	945	274	549	0	I Wingura.	0		
Stage 1	527	214	J43		-			
Stage 2	418		-					
Critical Hdwy	6.84	5.94	4 14	4		-		
Critical Hdwy Stg 1	5.84	V.9-7	7.17			-		
Critical Howy Stg 2	5.84	4	¥			<u>.</u>		
Follow-up Hdwy	3.52	3.32	2.22	. J 5 • 8	-	- 7 		
Pot Cap-1 Maneuver	260	724	1017			179		
Stage 1	557	15.47		. Ī.	ζ.,	7		
Stage 2	632	Ž.		-	1	-		
Platoon blocked, %	VOL			58.8		-		
Mov Cap-1 Maneuver	260	724	1017	14		740		
Mov Cap-2 Maneuver	260	iea	1011	7		-		
Stage 1	557			Ģ	Ž.	740		
Stage 2	632	34				-		
Olaye 2	032							
Approach	SE		NE	110	SW		1100	
HCM Control Delay, s HCM LOS	13.4 B		0		0			
Minor Lane/Major Mymt	NEL	NET SELM1	SELH2 SWT	SWR				
Capacity (ven/n)	1017	- 260	724 -	12				
HCM Lane V/C Ratio	2 // 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	- 0.084	0.375 -	-				
HCM Control Delay (s)	Ø A	- 201	12.9 -	22				
HCM Lane LOS	Ā	- C	В -	-				
HCM 95th %tile Q(veh)	þ	- 0.3		1/4				

	4	¥	7	m	K	*	7	×	a	4	K	The state of the s
Movement	SEL.	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		4		7	Pe		7	11	ř	T	个个	7
Traffic Volume (veh/h)	0	Ö	5	190	Ö	185	5	1010	200	65	690	5
Future Volume (veh/h)	0	Ö	5	190	0	185	5	1010	200	65	690	
Number	3	8	18	7	4	14	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	Ö	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h	0	0	5	238	0	231	5	1086	215	69	734	5
Adj No. of Lanes	Ö	1	0	1	1	0	1	2	1		2	1
Peak Hour Factor	0.94	0.94	0.94	0.80	0.80	0.80	0.93	0.93	0.93	0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	Ő	0	331	394	0	331	402	1472	659	284	1954	874
Arrive On Green	0.00	0.00	0.21	0.21	0,00	0.21	0.42	0.42	0.42	0.06	0.55	0.55
Sat Flow, veh/h	0	0	1583	1405	0	1583	717	3539	1583	1774	3539	1583
Grp Volume(v), veh/h	Ď	Ď	5	238	Ò	231	5	1086	215	69	734	5
Grp Sat Flow(s), veh/h/ln	0	Ö	1583	1405	Ö	1583	717	1770	1583	1774	1770	1583
Q Serve(g_s), s	0.0	0.0	0.2	11,2	0,0	9.3	0.3	17.8	6.3	14	81	0.1
Cycle Q Clear(g_c), s	0.0	0.0	0.2	11.3	0.0	9.3	0.3	17.8	6.3	1.4	8.1	0.1
Prop In Lane	0.00	0.0	1300	1 00	0.0	1:00	1.00	17.0	1 00	130		1.00
Lane Grp Cap(c), veh/h	0.00	0	331	394	0	331	402	1472	659	284	1954	874
V/C Ratio(X)	0.00	0.00	0.02	0.60	0.00	070	0.01	0.74	0,33	0.24	0.38	0.01
Avail Cap(c_a), veh/h	7.77	0	390	447	0	390	416	1539	688	351	2154	964
HCM Platoon Ratio	100	100	100	1.00	1300	1.00	1:00	100	1.00	100	100	1.00
Upstream Filter(I)	0.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Unitom Delay (d), siveh	0.0	0.00	21.7	26.2	0.00	25.3	11.9	17.5	13.5	12.1	87	6,9
Incr Delay (d2), s/veh	0.0	0.0	0.0	2.4	0.0	5.3	0.0	2.0	0.4	0.2	0.6	0.0
nitial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0,0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	0.1	4.6	0.0	4.5	0.1	9.0	2.8	0.7	4.0	0.0
	0.0	0,0	217	28.5	0.0	30,6	113	19 Q	14.0	12.2	9.3	70
Ln Sp (Delay(d),s/ven LnGrp LOS	. Her	WSW	C	C		C C	В	B	B	B	A	- 12X
Mandaca Val vehih		Ė			459			1306			808	-
		21.7			29.6			18.1			9.5	
Approach Delay, s/veh								10.1			9.5 A	
Neman LOS		Ç			<u>C</u>		-15			_	.2	
Toner	- 1	-2	3	4	. 5	- 6	(CF).	8			_	
Assigned Pins	1	Ž		4		6		ô				-
Phs Duration (G+Y+Rc), s	9.4	33.7		19.4		43.1		19.4				
Change Period (Y+Rc), s	5.0	50		5,0		5. Q		5.0				
Max Green Setting (Gmax), s	7.0	30.0		17.0		42.0		17.0				
Marco Glear Time (o. 5811) (\$	3.4	19.8		13.3		10.1		2.2				
Green Ext Time (p_c), s	0.0	8.9		1.1		23.2		2.8				
Intersection Summary				-A.E.1	E			de la				
HCM 2010 Ctrl Delay			17.5									
HCM2010 LOS			8									

North Genesee Existing (2015) Timing Plan: PM

ntersection		HE.												
nt Delay, s/veh	0.2											_	100	
Movement	SEL	SET	SER	-	MWL	NWT	NWR		NEL	NET	NER	SWL	SWT	SWR
Traffic Vol, veh/h	0	Ũ	10		0	0	10		O	1025	20	5	705	15
Future Vol, veh/h	0	0	10		Ö	0	10		0	1025	20	5	705	15
Conflicting Peds, #/hr	0	0	0	77	Ö	0	0		0	0	0	0	0	0
Sign Control	Stop	Stop	Stop		Stop	Stop	Stop		Free	Free	Free	Free	Free	Free
RT Channelized	4	÷	Stop			-	Stop		18		None			None
Storage Length	- 15	_	Ö		_	-	0		7.0	-	_	+ A		
Veh in Median Storage, #		. 0	-			0	-1		-	0	1 - 2	*	0	
Grade, %		0	-		-	Ó	-		7.60	0		_	0	
Peak Hour Factor	92	92	92		92	92	92		92	92	92	92	92	92
Heavy Vehicles, %	2	2	2		2	2	2		2	2	2	2	2	2
Mvmt Flow	0	0	11		0	0	11		0	1114	22	5	766	16
Major/Minor	Mingr2			T)	Ainor1			1	Asjora II			Major2		
Conflicting Flow All	1342	1921	391		1519	1918	568	- 10	783	0	0	1136	_	
Stage 1	785	785	331		1125	1125	300		703	-			0	0
Stage 2	557	1136	10.		394	793					-		21	
Critical Hdwy	7.54	6.54	6.94		7.54	6.54	6.94		4.14	-		4.14	- 25	_
Critical Hdwy Stg 1	6.54	5.54	- ייט		6.54	5.54	0.34		4 14	_			_	
Critical Hdwy Stg 2	6.54	5.54			6.54	5.54				-			F	-
Follow-up Hdwy	3.52	4.02	3.32		3.52	4.02	3.32		2.22	-	-	2.22		
Pot Cap-1 Maneuver	110	66	608		82	67	466		831			611	- 20	
Stage 1	352	402	000		218	278	400		- 001	_	. *	011		===;
Stage 2	482	275	- 8		602	398	18		83	-				
Platoon blocked, %	102	210	,		002	J30	-		-		-		•	
Mov Cap-1 Maneuver	106	65	608		80	66	466		831			611		_
Mov Cap-2 Maneuver	106	65	-		80	66			001		-	.011		
Stage 1	352	396			218	278								
Stage 2	471	275			582	392	-			Ē	-	-		
Approach	SE			-	NW				NE			SW	_	
HCM Control Delay, s	-110	_	_	-		-							-	
HCM LOS	В				12.9 B				0			0.2		
Mary Name of the Name				TEN CON		40.17	Carlot Van						4 =	
Minor Lane/Major Mymt	NEL	NET	NERN	WLn1 S		SWL		SWR						
Capacity (veh/h)	831	.5.			DUB	611								
HCM Lane V/C Ratio	-	-	-	0.023			. 20, 11 - 2							
HCM Control Delay (s)	0		-	12.9	11	10.9	01							
HCM Lane LOS	A	-	-	В	В	В	Α	-						
HCM 95th %tile Q(veh)	0	=	1.7	0.1	0.1	0		7						

Intersection		000	-	110			-			1500	MI	-
Int Delay, s/veh	8.0											
Movement	SEL	SET	SER	NVVL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Frattic Vol., veh/h	0	0	60	Ō	0	60	5.	1155	10	0	870	15
Future Vol, veh/h	Ô	0	60	0	0	60	5	1155	10	0	870	15
Conflicting Peds, #/hr	Ō	Ö	Ō	0	b	0	Ö	0	Ó	Ö	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	Stop		÷.,	Stop	=	=	Free	†	₹.	None
Storage Length	-		0		-	0	160	-	_	-	-	0
Veh in Median Storage, #		0			0			0	E I	i.	0	
Grade, %	-	Ó	-	-	0	-	-	0	-	_	0	_
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92 2
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mymt Flow	Ō	0	65	0	Õ	65	5	1255	11	0	946	16
Major/Minor	Minor2		16.	Minorit			Majori			Major2		
Conflicting Flow All	1459	2212	473	1739	2212	628	946	0		1255	0	0
Stage 1	946	946		1266	1266			7		1	4	
Stage 2	513	1266	- 2	473	946	-	•		-	-	-	_
Critical Howy	5.99	6.54	8.94	6.99	6,54	7.14	4,14	2	7	5.34	7	4
Critical Hdwy Stg 1	6.54	5.54	\$00,000	7.34	5.54	. 2.50	60% 3 .	-	3.5	COM %	7.0	
Critical Howy Stg 2	6.74	5.54	1	6.54	5,54	· · · · · · · · · · · · · · · · · · ·		- 2	₹ -	3	٠	
Follow-up Hdwy	3.67	4.02	3.32	3.67	4.02	3.92	2.22	-		3.12	-	-
Pot Cap-1 Maneuver	113	43	538	72	43	365	72	-	0	294	1	
Stage 1	274	338		132	238	- 74 Tr		-	Ô	. 1774	ü. =	-
Stage 2	482	238		524	338	-	7	- 2	Ö	- 1	4	1
Platoon blocked, %	. Det	FNE.		_ 55	. 223		-2	-	. %		-	-
Mov Cap-1 Maneuver	94	43	538	63	43	365	721	-	é	294	Į.	
Mov Cap-2 Maneuver	91	43	. CENT 100	63	43	2572	-	-	-	. 27.	-	-
Stage 1	2/2	338		18)	236	-	39	-	14	- 2	T Z	7
Stage 2	393	236	-	460	338			*	(4			
Approach	SE			NW		75.0	NE	-	-	SW		
HCM CONTO DEIRY S HCM LOS	12.6 B			ţ <u>i</u> C	110		Q			Q		
Million I like Markey Aview	NEL	METN	WLn1S	ELn1 SWL	SWT	SWR		=				
Minor Lane/Major Mymt			-			-						
Dapacity (veh/h)	721	77	365	538 294	- 5	- 3						
HCM Lane V/C Ratio	0.008		0.179 (.121 -	-							
HCM Centrol Detay (s)	10	40	17	12.6		÷						
HCM Lane LOS	В		C 0.6	B A 0		· ·						
HCM 95th %tile Q(veh)	Ø	, in	0.0	VA V		, 7		_				

intersection	1000				100					750	10000		
Int Delay, s/veh	1.3												
Movement	SEL	SET	SER		NWL	NWT	NWR	NE	NET	NER	SWL	SWT	SWR
Traffic Vol. veh/h	10	- 5	25		10	0	5	3		70	10	725	
Future Vol, veh/h	10	. 5	25		10	0	5	3		70	10	725	25
Conflicting Peds, #/hr	0	. 0	0		0	0	0) 945	0	0	125	25
Sign Control	Stop	Stop	Stop		Stop		Stop	Free		Free	Free	Free	Free
RT Channelized	Осор	Olop	None		Olop -	Olop -	None	110		None	FIEE		None
Storage Length	-		110110				110116	19		- INONE	20	•	NONE
Veh in Median Storage, #		.0			_	0			- 0	- 320	1.4	0	_
Grade, %		0				1 21	-			_		0	
Peak Hour Factor	92	92	92		92	92	92	9:	-	92	92	92	92
Heavy Vehicles, %	2	2	2		2	2	2		2 2	2	2	2	92
Mvmt Flow	11	5	27		11	0	5	3		76	11	788	27
		. •	/** !.		.,	V.			1021	, 10	11	100	21
Major/Minor	Minor2			1	Minor1		- 41	Major			Major2		
Conflicting Flow All	1402	1991	408		1548	1967	552	81		0	1103	0	0
Stage 1	823	823			1130	1130	178			1994			<u> </u>
Stage 2	579	1168	-		418	837	-		_	-			-
Critical Hdwy	7.54	6.54	6.94		7.54	6.54	6.94	4.14			4.14		
Critical Hdwy Stg 1	6.54	5.54	-	•	6.54	5.54	-	. 107				-	_
Critical Hdwy Stg 2	6.54	5.54			6.54	5.54	-					-	
Follow-up Hdwy	3.52	4.02	3.32		3.52	4.02	3.32	2,22			2.22	_	
Pot Cap-1 Maneuver	100	60	593		78	62	477	808			629	,	
Stage 1	334	386			217	277	_	7,		-	, <u>, , , , , , , , , , , , , , , , , , </u>	_	
Stage 2	468	266	<u>Пи.</u> -		583	380	- 3				- 1		
Platoon blocked, %	1						-		_		707		
Mov Cap-1 Maneuver	95	57	593		66	58	477	808			629		
Mov Cap-2 Maneuver	95	57			66	58					.757	-	-
Stage 1	320	379	-		208	266			N			_	
Stage 2	444	255	-		539	373	-		_	_			
Approach	SE		-		NVV:			NE NE			SW		_
HCM Control Delay, s	33.3	$\overline{}$			51.8	_	0	0.3	_		0.1		
HCM LOS	Ď				F			U.			U.1		_
Minor Lane/Major Mymt	NEL	NET	NERN	WLn15	SELn1	SWL	SWT	SWR				100	
Capacity (ven/n)	808		-,	93	170	629							
HCM Lane V/C Ratio	0.04		-	0.175			_	-					
HCM Control Delay (s)	96			51.8	33.3	10.8	-						
HCM Lane LOS	Α			F	D	В		-					
HCM 95th %tile Q(veh)	0.1		-	0.6	1	0.1	1.5						

Intersection		Street Street	3 3 5	II DE				
Int Delay, s/veh	3							
Managara	CEL	050	SIE!	VICT	curr	DIME	-	
Movement	SEL	SER	NEL		SWT	SWR	_	
Traffic Vol, veh/h	50	310	0		415	60		
Future Vol, veh/h	50	310			415	60		
Conflicting Peds, #/hr	۵	0	_ 21		0	_ O		
Sign Control	Stop	Stop	Free		Free	Free		
RT Channelized		Stop	-	None	-	None		
Storage Length	0	0	-			-		
Veh in Median Storage, #	0		_ =	0	Ō	0.0		
Grade, %		00 992	_		0	-		
Peak Hour Factor	92	92	92	92	92	92		
Heavy Vehicles, %	2	2			2	2		
Mymt Flow	54	337	0	1125	451	65		
Major/Minor	Minor2		Major1		Major2		_	
Conflicting Flow All	1047	258	516	0	-	0		
Stage 1	484	200	1			Ĭ.		
Stage 2	563			_				
Critical Howy	6.84	6.94	4.14					
Critical Hdwy Stg 1	5.84	9,04						
Critical Howy Stg 2	5.84			2	- ig			
Follow-up Hdwy	3.52	3.32	2.22	74				
			1046		-			
Pot Cap-1 Maneuver	224	741		. .	*	37		
Stage 1	585	12		-		-		
Stage 2	534		*			ŧ		
Platoon blocked, %	707	784	4040		-	-7		
Mov Cap-1 Maneuver	224	741	1046	1	₹.	•	/	
Mov Cap-2 Maneuver	224	- 1		i è		-		
Stage 1	585				- 	- = _		
Stage 2	534	*		-		:4	-	
Approach	SE		NE		SW	. TELL		-
HCM Control Delay, s	15.6		0		0			
HCM LOS	Č		Ω.		_ * ,			
/finor Lane/Major Mvmt	NEL	NET SELn1	SELn2 SWT	SWR				
Capacity (ven/n)	11/46	7 224	741 -	*				
HCM Lane V/C Ratio	K .	- 0.243						
HCM Control Delay (s)	0	26.1						
HCM Lane LOS	Α.	- D	В -					
HCM 95th %tile Q(veh)	0	0.9	24 -	<i>≠</i> -2				

ATTACHMENT C Level of Service Analysis

No-Build 2020 Conditions



	4	¥	1	F	K	*	7	Ħ	74	Ĺ	K	100
Movement	SEL	SET	SER	NVVL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		4		7	4		7	十	7	7	十 个	7
Traffic Volume (veh/h)	0	0	5	289	0	31	5	510	158	105	855	5
Future Volume (veh/h)	0	0	5	289	0	31	5	510	158	105	855	5
Number	3	8	18	7	4	14	5	2	12	1	6	16
Initial Q (Qb), veh	0	Ò	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	,	1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adi Sat Flow, veh/h/ln	1900	1863	1900	1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h	0	0	6	311	0	33	5	560	174	119	972	6
Ad No. of Lanes	0	1	O	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.90	0.90	0.90	0.93	0.93	0.93	0.91	0.91	0.91	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	0	0	390	446	0	390	285	1249	559	409	1781	797
Arrive On Green	0.00	0.00	0.25	0.25	0.00	0.25	D.35	0.35	0.35	0.08	0.50	0.50
Sat Flow, veh/h	0	0	1583	1404	0	1583	573	3539	1583	1774	3539	1583
Grp Volume(v), veh/h	Ö	0	6	311	Ö	33	5	560	174	119	972	6
Grp Sat Flow(s),veh/h/ln	Ö	Ö	1583	1404	0	1583	573	1770	1583	1774	1770	1583
Q Serve(g_s), s	0.0	0.0	0.2	14.9	0.0	1.1	0.4	8.4	5.5	2.7	13.0	0.1
Cycle Q Clear(g_c), s	0.0	0.0	0.2	15.0	0.0	1.1	3.0	8.4	5.5	2.7	13.0	0.1
Prop In Lane	0.00		1.00	1.00	0.0	1.00	1.00	ÿT	1.00	100	10.0	1.00
Lane Grp Cap(c), veh/h	0.00	0	390	446	0	390	285	1249	559	409	1781	797
V/C.Ratto(X)	0.00	0.00	0.02	0.70	0,00	0.08	0.02	0,45	6.31	0.29	0.55	0.01
Avail Cap(c_a), veh/h	0	0.00	390	446	0.00	390	332	1539	688	451	2154	964
HCM Platoon Ratio	1,00	1.00	1:00	1,00	1.00	1.00	1.00	1.00	1,00	1,00	1.00	1.00
Upstream Filter(I)	0.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/yeh	0.0	0.0	19.7	25.4	0.0	20.0	16.3	172	16,2	117	11.7	8.5
Incr Delay (d2), s/veh	0.0	0.0	0.0	5.2	0.0	0.1	0.0	0.4	0.4	0.1	1.2	0.0
Initiai Q (Jelay(d3),s/veh	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	0.1	6.3	0.0	0.5	0.1	4.1	2.5	1.3	6.5	0.1
Lnam Delay(d) s/veh	0.0	0.0	19.7	30.5	0.0	20,1	18.4	7.5	18.7	119	12.9	8,6
LnGrp LOS	UAU	_0.0	В	C		C	B	B	В	B B	B	A
Approach Vol., veh/h		6		Ť	344	Ť		739			1097	11
Approach Delay, s/veh		19.7			29.5			17.3			12.8	
Approach Delay, siven		B			Č			17.5			12.0 B	
	-								_		. 2	=
Timer	- 1	2	3	4	5	- 6	70	8				
Assigned Phs	1	2		4		Ď		<u> </u>				
Phs Duration (G+Y+Rc), s	10.4	29.3		22.0		39.7		22.0				
Change Period (Y+Rc), s	5.0	50		5.0	-31	5.0		5,0				
Max Green Setting (Gmax), s	7.0	30.0		17.0		42.0		17.0				
Max Q Clear Time (g. celf), s	47	10.4		17.0	-	15,0		22				
Green Ext Time (p_c), s	0.0	13.9		0.0		17.6		1.6				
Intersection Summary	-	100				L.E						
HCM 2010 Ctrl Delay			17.0									
HCM 2010 LOS			В									

3: Genesee St & Harbour Lock Rd

Intersection												1 1		
Int Delay, s/veh	0.1													
Vlovement	SEL	SET	SER		NWL	NWT	NWR		NEL	NET	NER	CIAII	COUNT	P1.6.25
Traffic Vol, veh/h	0	0	10		0	0		-	0	551	5	SWL	960	SWF 26
Future Vol., veh/h	0	Ö	10		Ö	0			0	551	5	0	960	26
Conflicting Peds, #/hr	0	0	0		0	0			0	0	0	Ö	900	20
Sign Control	Stop	Stop	Stop		Stop	Stop			Free	Free	Free	Free	Free	Free
RT Channelized		O.Op	Stop		-	olop-			1100	1100	None	1100	1100	None
Storage Length	74		0		-		0.00	>	1		-			PAOLIC
Veh in Median Storage, #	79	0				Ó			27	0			0	
Grade, %	- 4	Ö	_		- 4	Ō			_	0			0	
Peak Hour Factor	92	92	92		92	92	92		92	92	92	92	92	92
Heavy Vehicles, %	2	2	2		2	2			2	2	2	2	2	2
Mvmt Flow	0	0	11		Ō	Ō	5		0	599	5	Ō	1043	28
Major/Minor	Minor2				Minori				421024			A A CT COM		
Conflicting Flow All	1357	1662	536			4074	200		Aajor1			Major2		
Stage 1	1058	1058			1124	1674	302		1072	0	0	604	0	C
Stage 2	299	604			602	602	-			-	÷	1	-	2
Critical Hdwy	7.54	6.54	6.94		522 7.54	1072	0.04			_		::	-	
Critical Hdwy Stg 1	6.54	5.54	0.94			6.54 5.54	6.94		4 14	-	-	4.14	→.	
Critical Hdwy Stg 2	6.54	5.54			6.54	5.54	-				- 85	- 13		
Follow-up Hdwy	3.52	4.02	3.32		6.54 3.52	4.02	2 22		0.00		200	0.00		-
Pot Cap-1 Maneuver	108	96	489		160	95	3.32		2.22			2.22	• 2	
Stage 1	240	300	409		453	487	694		646	- 3	- 2	970	-	
Stage 2	685	486	_		506	295			-	-		- 11	•	
Platoon blocked, %	000	400	-		500	290	•		- 3		- ·	- 2	-	
Mov Cap-1 Maneuver	107	96	489		156	95	694		646	- 3		070	-	_
Mov Cap-2 Maneuver	107	96			156	95			040	-	-	970	-	-
Stage 1	240	300	-		453	487	-		_			- 25		-
Stage 2	680	486	÷		495	295	192	-	-	- 8		- 3	-	-
	<u>,,,,</u>	400			733	233					النبيد	- 5		
Approach	SE	-			NW.			-5-	NE	_		SW		- 3
HCM Control Delay, s	12.5				10.2				0			0		
HCM LOS	В				В			-						
Minor Lane/Major Mymt	NEL	NET	NER	WLn1	SELnf	SWL	SWT	SWR			-010			
Capacity (ven/n)	646	-	-	694	489	970								
HCM Lane V/C Ratio	7.17	:-		0.008		-								
HCM Control Delay (s)	0			10.2	12.5	. 0								
HCM Lane LOS	A	-			В	A								
HCM 95th %tile Q(veh)	0	- 6		0	0.1	0				_				

6: Genese	e St	& L	_ee	Si
-----------	------	-----	-----	----

Intersection	0.0	5			84		-51	100	15,0			10.	
Int Delay, s/veh	0.4					5,8							
Mayement	SEL	SET	SER		NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWE
I rathe Vol, veh/h	Ü	Û	10		Q	Ū	21	21	651	26	0	1086	63
Future Vol, veh/h	Ö	0	10		0	Ô	21	21	651	26	0	1086	63
Conflicting Peds, #/hr	Q	Ő	0		0	0	0	0	Ò	0	0	Ô	(
Sign Control	Stop	Stop	Stop		Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized			Stop		7		4.5	+				=	None
Storage Length		- i.	0			-	0	160		de la charlesia.		- 20	(
Veh in Median Storage, #		0			+	0			0		-	0	-
Grade, %	_	ő			_	0			Ô			Ö	
Peak Hour Factor	92	92	92		92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2		2	2	2	2	2	2	2	2	
Mymt Flow	Ô	٥	11		ō	Ď	23	23	708	28		1180	68
MYTHE F DW	- ŭ	U			<u>, v</u>		<u> </u>	29	יעט	20		ा (५४)	
Major/Minor	Minor2			. Mi	nort			Majorf			Major2		
Conflicting Flow All	1509	1933	590		1343	1933	354	1180	0	-	708	0	
Stage 1	1180	1180	-		753	753	-	3	-	S	•	-	
Stage 2	329	753	-		590	1180		- '	=	-	-		
Critical Howy	6.99	6.54	6.94		6 99	6.54	7 14	4,14	-		5.34	-	
Critical Howy Stg 1	6.54	5.54	-		7.34	5.54	CB/Lat	osti Balti	-	-	6 %		
Ortical Howy, Stg 2	6.74	5.54	5		6.54	5,54	3	-	· ·	14	7	4	
Follow-up Hdwy	3.67	4.02	3.32		3.67	4.02	3.92	2.22	-	-	3.12	- 1-	
Por Cap-1 Maneuver	103	65	451		133	85	548	588	¥	Ó	540		
Stage 1	198	262	397		303	416	- 17	. Mes	_	0			
Stage 2	624	416			447	262	25	. THE	- 2	ď	3	÷	
Platoon blocked, %		7.10			III.	15.VE		5	-	- X.	. 4.	' <u>x</u>	
Mov Cap-1 Maneuver	96	62	451		126	62	548	588			540		
Mov Cap-2 Maneuver	96	62	787.		126	62	446	. 999	-	-		- 5 -	
a company of programming the filter of the	190	262	-11/2 ·		297	40)	181	(4)				-	
Stage 1	575	400			436	262	_	(4)		- 2	, <u>†</u> .		
Stage 2	5/5	400			430	202					أسسا		
Approach	SE	UL	J.V.J.L		NW			NE	III X	NO.	SW		
(O) Conirol Delay a	13,2				148			0.4			0		
HCM LOS	В				В	Ξ			Ξ		. 39.		_
Manager Hand Street March	NEL	METN	IVVLn1	CEI ## 14	SWL	SWT	SWR						
Minor Lans/Major Mymt		METER											
Capacity (veh/h)	588	- 1	548	451	540								
HCM Lane V/C Ratio	0.039		0.042			-	_						
HEM Control Delay (s)	11.4	į.	11.9	13.2	þ	- 3	-						
HCM Lane LOS	В	-	В	В	A	-	-						
HCM astr Valle Civer)	0.1	ş	0.1	0.1	0	- 6	105						

Intersection		10	7						100					
	0.7													
											-,-			
Movement	SEL	SET	SER		NWL	NWT	NWR		NEL	NET	NER	SWL	SWT	SW
Traffic Vol, veh/h	5	0	15		10	0	10		15	499	26	15	940	2
Future Vol, veh/h	5	0	15		10	0	10		15	499	26	15	940	2
Conflicting Peds, #/hr	0	0	0		0	0	0		0	0	. 0	0	0	
Sign Control	Stop	Stop	Stop		Stop	Stop	Stop		Free	Free	Free	Free	Free	Free
RT Channelized	-		None		12		None			_	None			None
Storage Length	-	-	-		- 2	-	_		190	-	-	20		
Veh in Median Storage, #		0			12	0	_		-	0		7.	0	
Grade, %	_	Ó				0	-		_	0	-		0	
Peak Hour Factor	92	92	92		92	92	92		92	92	92	92	92	92
Heavy Vehicles, %	2	2	2		2	2	2		2	2	2	2	2	
Mvmt Flow	5	0	16		11	0	11		16	542	28	16	1022	23
Marine D. Communication of the	E ALC HAPE				T-APT-100-100									
Major/Minor	Minor2	3	-		Minor1			- 1	Aajor1			Major2		
Conflicting Flow All	1370	1669	522		1132	1666	285		1045	0	0	571	0	(
Stage 1	1066	1066			589	589	-			-	-	-	*	- 3
Stage 2	304	603	-		543	1077	-		23	-	-	-	-	
Critical Hdwy	7 54	6.54	6.94		7.54	6.54	6.94		4.14	-	- 4	4.14	-	59
Critical Hdwy Stg 1	6.54	5.54	-		6.54	5.54	-		-	-		-	-	
Critical Hdwy Stg 2	6.54	5.54	9		6.54	5.54			-	-	37	-	-	- 0
Follow-up Hdwy	3.52	4.02	3.32		3.52	4.02	3.32		2.22	-	5#2	2.22	+:	
Pot Cap-1 Maneuver	105	95	499		158	96	712		661	1.5	-	998		-
Stage 1	237	297			461	494	-		-	-		-		- 9
Stage 2	681	487	-		492	293			-			-		
Platoon blocked, %											-			
Mov Cap-1 Maneuver	100	91	499		148	92	712		661	-		998	.	
Mov Cap-2 Maneuver	100	91	-		148	92	-		-			-		-
Stage 1	231	292			450	482	-		TE	-	-		-	
Stage 2	654	475	-		468	288				**	-	-	-	-
A copyright in	DP.	_			NOW	- 10								
Approach	SE				NW				NE			SW		
HCM Control Delay, s	20.8				21.1				0.3			0.1		
HCM LOS	С				С									
Minor Lane/Major Mymt	NEU	NET	NER	WLn1	SEI n1	SWL	SWT	SWR						
Capacity (veh/h)	661		- Marie Colo	245	250	998	SAMA	SULLS	7					
HCM Lane V/C Ratio	0.025	-	· · · · · ·		0.087		-	-						
HCM Control Delay (s)	10.6	-		21.1	20.8	8.7		_						
HCM Lane LOS	В	-		C	Z0.0	A	-							
HCM 95th %tile Q(veh)	0.1	-	*	0.3	0.3									- 5

Intersection			Sec. 1			100	-5-1
THE PROPERTY AND ADDRESS OF THE PARTY AND ADDR	.7						
Movement	SEL	SER	NEL	NET	SWT	SWR	
Traffic Vol, veh/h	26	478	Ô	556	509	73	
Future Vol, veh/h	26	478	0	556	509	73	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized		Stop	<u> </u>	None		None	
Storage Length	0	0	34	-	-	-	
Veh in Median Storage, #	0	-	-	0	0	<u> </u>	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2	2	2	2	
Mymt Flow	28	520	Ó	604	553	79	
Major/Minor	Minor2		Major1.		Major2		
Conflicting Flow All	895	316	633	0) <u>*</u>	0	
Stage 1	593		ė.	-	#	+:	
Stage 2	302	14		(4)	9	-	
Critical Howy	6.84	6.94	4.14	*	= = = =	4	
Critical Hdwy Stg 1	5.84	7.				-	
Critical Howy Stg 2	5.84	(4)	4	:	-	-	
Follow-up Hdwy	3.52	3.32	2.22	5.00	-	-	
of Cap-1 Maneuver	280	680	946	5	-	-	
Stage 1	515		سيمف تاتل مين	5.45	-	-	
Stage 2	724	14		14		-	
Platoon blocked, %	v .			: *:	-	-	
Mov Cap-1 Maneuver	280	680	946	-	*	100	
Mov Cap-2 Maneuver	280					-	
Stage 1	515	- 5	*	=	я	÷	
Stage 2	724	- 3	<u> </u>	-		-	
Approach	SE		NE		SW		
ICM Control Delay-s	25		Q		Q		
HCM LOS	D						
Minor Lane/Major Mvmt	NEL	NET SELm1 Si		SWR	NUS END		ALL DAY
apacity (ven/ij)	946	- 280	- 080	-			
HCM Lane V/C Ratio		- 0.101 0).764 -				
ICM Control Delay (\$)	0		25.3 -	į.			
HCM Lane LOS	Α	- C	D -	•			
HCM 95th %tile Q(veh)	0	- 0.3	72				

	'	×	1	100	K	₹	7	A	74	4	×	*
Movement	SEL	SET	SER	NWL	NVVT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		4		Ŋ	f		٦	什	7	7	个个	7
Traffic Volume (veh/h)	5	5 5	5	294	0	68	5	772	231	95	709	5
Future Volume (veh/h)	5	5	5	294	0	68	5	772	231	95	709	5
Number	3	8	18	7	4	14	5	2	12	1	6	16
Initial Q (Qb), veh	Ö	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h	5	5	5	346	0	80	6	887	266	99	739	5
Adj No, of Lanes	0	1	0	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.98	0.98	0.98	0.85	0.85	0.85	0.87	0.87	0.87	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	168	164	131	451	0	390	386	1397	625	329	1915	857
Arrive On Green	0.25	0.25	0.25	0.25	0.00	0.25	0.39	0.39	0.39	0.07	0.54	0.54
Sat Flow, veh/h	400	667	534	1399	0	1583	713	3539	1583	1774	3539	1583
Grp Volume(v), veh/h	15	Ő	Ö	346	0	80	6	887	266	99	739	5
Grp Sat Flow(s),veh/h/ln	1601	0	Õ	1399	0	1583	713	1770	1583	1774	1770	1583
Q Serve(g_s), s	0.0	0.0	0.0	16,5	0.0	2.8	0.4	14.0	8.4	2.0	8.4	0.1
Cycle Q Clear(g_c), s	0.4	0.0	0.0	16.9	0.0	2.8	0.4	14.0	8.4	2.0	8.4	0.1
Prop in Lane	0.33	T T	0.33	1.00		1.00	1.00		1.00	1.00		1,00
Lane Grp Cap(c), veh/h	464	0	0	451	0	390	386	1397	625	329	1915	857
V/C Ratio(X)	0.03	0.00	0.00	0.77	0.00	0.21	0.02	0.63	0.43	0.30	0.39	0.01
Avail Cap(c_a), veh/h	464	0	0	451	0	390	414	1539	688	378	2154	964
(CN/Platoon Ratio	1.00	1.00	1.00	1,00	1.00	1.00	1.00	1,00	1,00	1,00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	19.8	0.0	0.0	25.9	0.0	20.6	12.7	16.9	15.2	11.5	9.2	73
Incr Delay (d2), s/veh	0.0	0.0	0.0	8.2	0.0	0.4	0.0	0.9	0.7	0.2	0.6	0.0
Initial Q Delay(d3).s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.0	7.6	0.0	1.2	0.1	7.0	3.8	1.0	4.2	0.0
LnOm Delay(d),s/věh	19,8	0.0	0.0	34.1	0.0	210	12.8	17.3	15.8	11.7	9,8	7.3
LnGrp LOS	В	2 . 246.2	- 174 7 394	C		C	В	В	В	В	Α	Α
Approach Vol. veh/h		15			426			1159			843	
Approach Delay, s/veh		19.8			31.7			17.3			10.0	
And a less		8			Ç			B			Å	
Timer	- 1	- 2	3	4	5	. 8	7/.	- 8		BULL!		
Assigned Phs	j	Ž		4		ĥ		ŝ				
Phs Duration (G+Y+Rc), s	10.1	32.2		22.0		42.3		22.0				
Change Penet (Y 170, s	5.0	5.0		5.0	-	5:0		5.0				
Max Green Setting (Gmax), s	7.0	30.0		17.0		42.0		17.0				
Max Q Clear Time (g c+11), s	410	16.0	, E 3	18.9		D.4		2.4				U.E.
Green Ext Time (p_c), s	0.0	11.3		0.0		21.2		2.2				
Intersection Summary						191	-			F V 2		
HCM 2010 Ctrl Delay			17.3									
HCM 2010) LOS	- 0		В									

Intersection	معروا									-				
DESIGNATION OF THE PARTY OF THE	0.2												_	
Movement	SEL	SET	SER		NWL	NWI	NWR		NEL	NET	NER	SWL	SWI	SWE
Traffic Vol, veh/h	0	0	15		0	O	15		0	793	26	0	735	15
Future Vol, veh/h	0	0	15		0	0	15		0	793	26	0	735	15
Conflicting Peds, #/hr	0	0	0		0	0	0		0	0	0	0	0	
Sign Control	Stop	Stop	Stop		Stop	Stop	Stop		Free	Free	Free	Free	Free	Free
RT Channelized	74	-	Stop		-		Stop		- 13	1 2	None			None
Storage Length	- 3	-	0				0				-	12	_ 1	
Veh in Median Storage, #		0				0				0		12	0	
Grade, %	34	0	-		-	0	-		-	0	-		0	
Peak Hour Factor	92	92	92		92	92	92		92	92	92	92	92	92
Heavy Vehicles, %	2	2	2		2	2	2		2	2	2	2	2	2
Mvmt Flow	0	0	16		0	0	16		0	862	28	ō	799	16
											** ·			
Major/Minor	Minor2				Minur1			N	lajor1			Major2		
Conflicting Flow All	1238	1697	408		1275	1691	445		815	0	0	890	0	C
Stage 1	807	807			876	876								
Stage 2	431	890			399	815				_	_		_	- 6
Critical Hdwy	7.54	6.54	6.94		7 54	6 54	6.94		4.14		38	4.14		
Critical Hdwy Stg 1	6.54	5.54	-		6.54	5.54				_	_	7.17	-	
Critical Hdwy Stg 2	6.54	5.54			6.54	5 54								
Follow-up Hdwy	3.52	4.02	3.32		3.52	4.02	3.32		2.22		_	2.22		
Pot Cap-1 Maneuver	132	92	593		124	92	561		808	8		757		
Stage 1	341	392			310	365			i e	-	-	- 101		
Stage 2	573	359			598	389	-							
Platoon blocked, %	-,				200					_	_		_	
Mov Cap-1 Maneuver	128	92	593		121	92	561		808	-		757		
Mov Cap-2 Maneuver	128	92			121	92			-	ġ	-	101		
Stage 1	341	392			310	365			(2)					
Stage 2	556	359	-		582	389			7.20	2			_	
					· • • • • • • • • • • • • • • • • • • •							أحسا		
Approach	SE	-		-	NW	_		-	NE	-	_	SW	_	
HCM Control Delay, s	11.2	-		-	11.6				D		_			
HCM LOS	В								V			Q.		
					В				U.J					
Minor Lane/Major Mymt	NEL	NET	NERK	WLn1	SFI n1	SWL	SWT	SWR	_	-	_			
Capacity (veh/h)	808	- Albert	100-100	177	593	757								
HCM Lane V/C Ratio				0.029			. ₩.	The Control of the Co						
HCM Control Delay (s)	0			11.6	11.2	-		-						
HCM Lane LOS	A	12/1		11.0 B		0								
HCM 95th %tile Q(veh)	0		-	0.1	B 01	Α 0	-	- 42						
LICHA SOUL WHIC PALACITY	U.			U. I	UI	U	100							

Intersection		100			12.5		8		100	- 200	- L	3-10	
Int Delay, s/veh	0.5						Ξ						
Movement	SEL	SET	SER	N	VL NV	IT NV	R	NEL	NET	NER	SWL	SWT	SWR
I rattic you veh/h	0	Q	31		Ū	Q é	12	5	966	15	0	966	42
Future Vol, veh/h	0	0	31		0	0 4	42	5	966	15	0	966	42
Conflicting Peds, #/hr	0	Ô	0		0	Ď	0	Q	0	0	Ó	0	0
Sign Control	Stop	Stop	Stop	S	op St	p Sto		Free	Free	Free	Free	Free	Free
RT Channelized			Stop	-	-	- Sto	op			Free	-	-	None
Storage Length	-	-	0		-	-	0	160	-	-	-	-	0
Veh in Median Storage, #		0	5			0	*	į	0	-	1	0	
Grade, %	-	~	-			0	-	-	0	-		0	-
Peak Hour Factor	92	92	92		92	2 9)Ž	92	92	92	92	92	92
Heavy Vehicles, %	2		2		2	2	2	2	2	2	2	2	2
Myant Flow	0	0	34		0	0 4	16	5	1050	16	0	1050	46
Major/Minor	Minor2		161	Min	ari i	0/10		Major1		- 7	Major2		
Conflicting Flow All	1481		525	15		1 52	25	1050	0		1050	0	0
Stage 1	1050		020	10				1000	1	1	1000	1	,
Stage 2	431	1061	- 21		25 10				-		_	_	
Critical Howy	6.99	6.54	6.94		99 6			4 14	p	121	5.34		-
Critical Hdwy Stg 1	6.54	5.54	9,9T		34 5.		F	. ट्राप्ट			2.47		5.
Critical Howy Stg 2	6.74	5.54	15		54 54				· · ·	1		<u></u>	
Follow-up Hdwy	3.67	4.02	3.32		67 4.0	97 12 3.9		2.22	1		3.12		
Pot Cap-1 Maneuver	107	50	497			0 42		659	- 3	Q	370	7. 2	į
Stage 1	237	302	701		85 29		Y			ő	91. <u>9</u> .	10	
Stage 2	541	299	2		88 30		4	<u> </u>	7.	0		1	9
Platoon blocked, %	ידע	200			20 31		. 🧎	. 44					
Mov Cap-1 Maneuver	95	50	497	- I	84	0 42)R	659			370		- 1
Mov Cap-2 Maneuver	95	50	701			0	*	000			910		
Stage 1	235	302	÷		4 8		ni.	1	-	12		÷	
Stage 2	479	297		- 1	55 30	2	1	_		12	_ X		-
Glaye 2	פור	231	W.		55 50	_	Ì						
Approach	SE				NA /	JUL 1	Ш	NE			SW		
HCM LOS	12.5 B			Ţ,	B			0.1			Q		
Minor Lane/Major Mymt	NEL	NETN	WLn18		_	T SW	R			1.14	KIL		
Capacity (veh/h)	659	7		497 3	/U	1							
HCM Lane V/C Ratio	0.008	-	0.107	0.068	-	-	-						
EM Fortrol Delay (6)	10.5		14.5	12.8	Ŏ	£	ř						
HCM Lane LOS	В		В	В	A	-	-						
Lear Bull-aile (voi)	Ò		0.4	9.2	0	9	3						ЩЦ

Intersection														
Int Delay, s/veh	0.9													
Movement	SEL	SET	SER		NWL	NWT	NWR		NEL	NET	NER	SWL	SWI	SVVF
Traffic Vol, veh/h	15	0	10		5	0	5		21	788	37	15	793	2.
Future Vol, veh/h	15	0	10		5	0	5		21	788	37	15	793	2
Conflicting Peds, #/hr	0	0	0		0	0	0		0	0	0	0	0	
Sign Control	Stop	Stop	Stop		Stop	Stop	Stop		Free	Free	Free	Free	Free	Free
RT Channelized		-	None		1		None			_	None			None
Storage Length	12				- 1	_	-		190	_	-	20	_	
Veh in Median Storage, #		0	_		-	0				0			0	
Grade, %		0	-		-	0	-		- 12	0	-	_	0	
Peak Hour Factor	92	92	92		92	_	92		92	92	92	92	92	92
Heavy Vehicles, %	2	2	2		2		2		2	2	2	2	2	2
Mvmt Flow	16	0	11		5		5		23	857	40	16	862	23
Major/Minor	Minor2				Minort				Immed			1000000		
Conflicting Flow All	1380	1848	442			4000	440		fajor1			Major2	_	
Stage 1	906	906			1386	1839	448		885	0	0	897	0	. 0
Stage 2	474	942			922	922	•		-	7.	(7.0	- 4	-	
Critical Hdwy					464	917	004		-	_ 0	150	1	-	2
	7.54	6.54	6.94		7.54	6.54	6.94		4.14			4.14	-	
Critical Howy Stg 1	6.54	5.54	-		6.54	5.54	-		-)**		2.5		*	_
Critical Hdwy Stg 2	6.54	5.54	2 00		6.54	5.54				= 7	100		-	-
Follow-up Hdwy	3.52	4.02	3.32		3.52	4.02	3.32		2.22	- 7	-	2.22	1.0	
Pot Cap-1 Maneuver	104	74	563		102	75	558		760			753		-
Stage 1	297	353	-		291	347	-		- 0	- 7				
Stage 2	540	340	-		548	349	-		- 1	- 3	27		-	
Platoon blocked, %			di a a a										TE.	-
Mov Cap-1 Maneuver	99	70	563	. ——	96	71	558		760		- •	753	-	-
Mov Cap-2 Maneuver	99	70			96	71				-	- 12		-	
Stage 1	288	345	j -		282	336			-	-			-	
Stage 2	519	330			526	342	_			_	- 17		٠	
Approach	SE			-	NW				NE.		-	SW		
HCM Control Delay, s	34.7				28.5				0.2			0.2		
HCM LOS	D				D				V.2			٧٠٫٤		_
Minor Lane/Major Mvmt	NEL	NET	MED	WEn1	ecusal	SWL	SWT	SWR						
Capacity (veh/h)														
HCM Lane V/C Ratio	760	-		164	148	753		11.						
	0.03	-		0.066			-	-						
HCM Control Delay (s)	9.9	. •			34.7	9.9	-	- *						
HCM Lane LOS	A	-	-		D	Α	-	*						
HCM 95th %tile Q(veh)	0.1	1.7		0.2	0.6	0.1	•							

Intersection	·				-			
int Delay, s/veh 2	.5							
Movement	SEL	SER		NEL	NET	SWT	SWR	
Traffic Vol, veh/h	21	263	1	0	809	488	42	
Future Vol, veh/h	21	263		0	809	488	42	
Conflicting Peds, #/hr	0	0		0	0	0	0	
Sign Control	Stop	Stop		Free	Free	Free	Free	
RT Channelized	100	Stop		1.5	None		None	
Storage Length	0	0		-	-	-	-	
Veh in Median Storage, #	0			7	0	0	*	
Grade, %	0			-	0	Ó	-	
Peak Hour Factor	92	92		92	92	92	92	
Heavy Vehicles, %	2	2		2	2	2	2	
Mymt Flow	23	286		Ō	879	530	46	
Below Brown	11							
Major/Minor	Minor2	000	W	lajor1		Major2		
Conflicting Flow All	993	288		576	Ō	[4	0	
Stage 1	553			-			*	
Stage 2	440	+			200		+:	
Critical Hdwy	6.84	6.94		4,14			¥3	
Critical Hdwy Stg 1	5.84			-	(*)		- *:	
Critical Howy Stg 2	5.84				.	-	7.	
Follow-up Hdwy	3.52	3.32		2.22)*:		141	
Pot Cap-1 Maneuver	242	709		993				
Stage 1	540			*	**		-	
Stage 2	616	in the		-	₽		.	
Platoon blocked, %		<u> </u>		11811	-			
Mov Cap-1 Maneuver	242	709		993	-		- 1	
Mov Cap-2 Maneuver	242	×		8		9	-	
Stage 1	540	5		=	2			
Stage 2	616	-		-				
Approach:	SE			NE		SW		11 15 15 15
HCM Control Delay, s	14.1			0		Q		
HCM LOS	В					¥		
Minor Lane/Major Mvmt	NEU	NET SELET	SELn2	ŚWT	SWR	and the second		
Capacity (veh/h)	993		709	3.				
HCM Lane V/C Ratio		- 0.094			-			
ICM Control Delay (s)	0	- 21.4	13.5	-	<u></u>			
HCM Lane LOS	Ä	- C	В	-	. d			
HCM 95th %tile Q(veh)	0	- 0.3	2	4	13			

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	٧.	×	2	<i>p</i>	K	ť	7	A	734	Ĺ	K	100
Movement	SEL	SET	SER	NWL.	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		4		Y	1		7	44	7	7	十 个	7
Traffic Volume (veh/h)	0	0	5	200	0	194	5	1060	210	68	724	5
Future Volume (veh/h)		0	5	200	0	194		1060	210	68	724	5
Number	3	8	18	7	4	14	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/In	1900	1863	1900	1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h	0	0	5	250	0	242	5	1140	226	72	770	. 5
Adj No. of Lanes	0	1	0	1	1	Ø	1	2	1	1	2	1
Peak Hour Factor	0.94	0.94	0.94	0.80	0.80	0.80	0.93	0.93	0.93	0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	0	0	342	404	0	342	396	1491	667	278	1978	885
Arrive On Green	0.00	0.00	0.22	0.22	0.00	0.22	0.42	0.42	0.42	0,07	0.56	0.56
Sat Flow, veh/h	0	0	1583	1405	0	1583	693	3539	1583	1774	3539	1583
Grp Volume(v), veh/h	b	Ó	5	250	Ö	242	5	1140	226	72	770	5
Grp Sat Flow(s),veh/h/ln	0	0	1583	1405	0	1583	693	1770	1583	1774	1770	1583
O Serve(g_s), s	0.0	0.0	0.2	11.7	0.0	9.8	0.3	19.0	6.6	1.4	8.5	0.1
Cycle Q Clear(g_c), s	0.0	0.0	0.2	11.9	0.0	9.8	0.3	19.0	6.6	1.4	8.5	0.1
Prop In Lane	0.00		1.00	1 00		1 00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	0	0	342	404	0	342	396	1491	667	278	1978	885
V/C Ratio(X)	0.00	0.00	0.01	0.62	0.00	0.71	0.01	0.76	0.34	0.26	0,39	0.01
Avail Cap(c_a), veh/h	0	0	390	447	0	390	406	1539	688	342	2154	964
HIZM Platoon Ballo	1.00	1 00	1.00	1 00	1.00	1 00	1 00	1,00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	0,0	0.0	21.3	26.0	0.0	25.0	11,6	17.0	13.5	123	8.6	6.7
Incr Delay (d2), s/veh	0.0	0.0	0.0	2.8	0.0	5.8	0.0	2.5	0.4	0.2	0.6	0.0
Initial O Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0:0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	0.1	4.8	0.0	4.8	0.1	9.7	3.0	0.7	4.2	0.0
Intim Delay(d), siveh	0.0	0.0	213	28.7	0.0	30 B	11.7	19.5	13.9	12.5	9.2	6.7
LnGrp LOS			С	С	3420	С	В	В	В	В	Α	A
Aremach Vol. ven/h		5			492			137.1			847	
Approach Delay, s/veh		21.3			29.8			18.5			9.4	
Antread LOS		Ç			Ç			₿			A	
Timer	- 1	2	_ 3	4	5	- 6	- 7	8	4.3		-	
Assigned Phs	1	2		4		6		8				
Phs Duration (G+Y+Rc), s	9.5	34.1		19.9		43.6		19.9				
Change Period (YHRc), s	5.0	5.0		5.0		5,0		50				
Max Green Setting (Gmax), s	7.0	30.0		17.0		42.0		17.0				
Max (2 Clear Time (g. cfl1), s	3.4	21.0		1339		10.5		22	-			
Green Ext Time (p_c), s	0.0	8.1		1.0		24.0		3.0				
Intersection Summary	100	0 1										
HCM 2010 Ctrl Delay			17.7									
HCM 2010 LOS			B					THE				

North Genesee No Build (2020) Timing Plan: PM

Intersection	OF THE					11-55						
Int Delay, s/veh	0.2											
Movement	SEL	SET	SER	NWL	NWT	NWR	NE	NET	NIPP.	200	- PALL NOW	Park in
Traffic Vol. veh/h	0	0	10	0		10	NEL	NET	NER	SWL	SWT	SWF
Future Vol. veh/h	0	0	10	0		10	0	1076 1076	21	5	740	18
Conflicting Peds, #/hr	0	0	0	0		0	0		21 0	5	740	
Sign Control	Stop	Stop	Stop	Stop		Stop	Free	0 Free	Free	0 Free	0	
RT Channelized	Otop	Otop	Stop	Olop	_	Stop	-	riee	None		Free	Free
Storage Length	7.0	_	0			0			HOHE			None
Veh in Median Storage, #		0		_				. 0	_		0	
Grade, %		0						Ö	-	- 7	0	-
Peak Hour Factor	92	92	92	92		92	92	92	92	92	.92	92
Heavy Vehicles, %	2	2	2	2		2	2	2	2	2	2	
Mymt Flow	0	0	11	Ō		11	Ō	1170	23	5	804	16
Major/Minor	Minor2	_		Minort			Majort		_	Major2	_	
Conflicting Flow All	1408	2015	410	1594	2013	596		_			_	
Stage 1	823	823	410	1181	1181	590	821	0	0	1192	0	0
Stage 2	585	1192	-	413		- 1	-	-	-		-	
Critical Hdwy	7.54	6.54	6.94	7.54		6.94	4 14			4 14	-	
Critical Hdwy Stg 1	6.54	5.54	U.U.	6.54	5.54	0.54			-	4 14	-	
Critical Howy Stg 2	6.54	5.54		6.54	5.54			_	_	-		
Follow-up Hdwy	3.52	4.02	3.32	3.52	4.02	3.32	2.22		- 152	2.22	-	
Pot Cap-1 Maneuver	99	58	591	72		447	804		_	581	-	
Stage 1	334	386	-	202		7-11	- 004	. 5	-	, jo i	-	
Stage 2	464	259	22	587	382		-			- 2		
Platoon blocked. %				001	UUL		=				-	
Mov Cap-1 Maneuver	95	57	591	70	57	447	804			581	-	_
Mov Cap-2 Maneuver	95	57	-	70	57	-	007		1R	201		
Stage 1	334	380		202	262			+0.				===
Stage 2	453	259	4	567	376	_			:=		-	-
Approach	SE			NW			NE			SW		
HCivi Control Delay, s	11.2		TEE	13,3			0			0.2		
HCM LOS	В			В						0.2		
Minor Lane/Major Mymt	NEL	NET	NERWU	1 SELn1	SWL	SWT	SWR					
Capacity (veh/h)	804		- 44		581	2111						- 4
HCM Lane V/C Ratio	-			4 0.018		- 1.	-					
HCM Control Delay (s)	0		- 13		11.3	0.1	-					
HCM Lane LOS	Ä			B B	В	A						-
LCM DEH D/Ho O/reh			_									

HCM 95th %tile Q(veh)

Intersection	-	-	-	-				100	1000				
Int Delay, s/veh	0.9												
7.													
Movement	SEL	SET	SER	- 3	WYL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Traffic Vol, veh/h	0	Q	63		Q	9	63	5	1212	10	0	914	15
Future Vol, veh/h	0	0	63		0	0	63	5	1212	10	0	914	15
Conflicting Peds, #/hr	0	0	0		Ò	Ó	Ô	Ó	0	Ö	0	0	0
Sign Control	Stop	Stop	Stop		Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized		7	Stop		4		Stop		-1	Free			None
Storage Length	-		0		-	-	0	160	-		-	-	0
Veh in Median Storage, #	- 1	0			3.6	0	-	-	0	,		D	
Grade, %	-	0	=			0		-	0	-	-	0	25
Peak Hour Factor	92	92	92		92	92	92	92	92	92	92	92	92 2
Heavy Vehicles, %	2	2	2		2	2	2	2	2	2	2	2	2
Mybit Flow	0	0	68		Ö	Ò	68	5	1317	11	D	993	16
Major/Minor	Minor2		_	1.00	nort		_	Major1			Major2		_
		0004	407		_	2321	659	993	0		1317	0	0
Conflicting Flow All	1531 993	2321 993	497		825 328	1328	009			- 14		<u>.</u>	
Stage 1	538	Transfer of	-		497	993	· -	1.		-	±		
Stage 2	6.99	1328 6.54	6.94		49 <i>1</i> 8 99		744	4.14	-	_	5.34		
Critical Howy	6.54	5.54	14-17 15		7.34	8.54 5.54	7,14	404			W. 54	- 7	
Critical Hdwy Stg 1	6.74	5.54				5.54		-	- 5	_			
Critical Howy Stg 2	3.67	4.02	3.32		8. 54 3.67	4.02	3.92	2.22		-	3.12		-
Follow-up Hdwy			519	•	62	4.02	348	692	131	0	274		- 3
Pol Cap-1 Maneuver	99 257	37 322	319		119	223	346	032		Ö	611		
Stage 2	465	223			507	223			- 2	0	3	-	_
Platoon blocked, %	400				GGT	W. T.	. 7		2	Ň			
Mov Cap-1 Maneuver	70	37	519		54	37	348	692	21		274	<u>.</u>	
Mov Cap-2 Maneuver	79 79	37	010		54	37	878	902	-				- 4
Sage 1	255	322	1	-		22)		- 2	- 2	14	÷	(4)	1
Stage 2	371	221	T.	-	440	322			-				
Stage 2	3/1	221			עדד	JEZ							
Approach	SE			4.4	NW		4	NE		DI.	SW	844	
HCM Control Delay, s	15				7.7			D			Û		
HCM LOS	В				C								10
Minor Lane/Major Mymt	NEL	NETN	WLn1	SFIRT S	SVVL	SWT	SWR						
Capacity (veh/h)		10-511			274								
HCM Lane V/C Ratio	0.008		348 0.197	0 132	粉粒	- 50							
HCM Control Delay (\$)	10.2	-	17.9	13	ð		2 =						
HCM Lane LOS	B		C	B B	A	- 1	₹						
HCM 95th %tile Q(veh)	0		0.7	0.5	Ô								
			3-1	N. Y	20.	161	<u>.</u> ż						

Intersection Int Delay, s/veh	1.5													
ilit belay, siven	1.0													
Movement	SEL	SET	SER		NWL	NWT	NWR		NEL	NET	NER	SWL	SWT	SWR
Traffic Vol, veh/h	10	5	26		10	0	5		31	992	74	10	761	26
Future Vol. veh/h	10	5	26		10		5		31	992	74	10	761	26
Conflicting Peds, #/hr	0	0	0		0	0	0		0	0	0	0	0	
Sign Control	Stop	Stop	Stop		Stop		Stop		Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None		- 0		None				None	1100	-	
Storage Length		-	-			_	-		190		- 110110	20		TAOTIC
Veh in Median Storage, #		0	_			0			-	0			0	
Grade, %		0			_				_	0	-		0	
Peak Hour Factor	92	92	92		92	_	92	•	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2		2		2		2	2	2	2	2	2
Mvmt Flow	11	5	28		11		5		34	1078	80	11	827	28
										10.0	,UU	- 11	021	20
Major/Minor	Minor2				Minori		100	y	Major1		D. 10	Major2		
Conflicting Flow All	1470	2089	428		1624	2063	579		855	0	0	1159	0	0
Stage 1	863	863			1186	1186	-						-	Š.
Stage 2	607	1226			438	877	-		-	-	-		4	-
Critical Hdwy	7.54	6.54	6.94		7 54	6.54	6.94		4.14			4.14		
Critical Hdwy Stg 1	6.54	5.54			6.54	5.54	-			-	_	-	_	-
Critical Hdwy Stg 2	6.54	5.54			6.54	5.54	-		11 (*)			-		-
Follow-up Hdwy	3.52	4.02	3.32		3.52	4.02	3.32		2.22			2.22	- 5	- 4
Pot Cap-1 Maneuver	89	52	575		68	54	458		781	_	14	599		
Stage 1	316	370	-		200	260				_	25	000	-	
Stage 2	450	249			567	364					_			
Platoon blocked, %										_		- 35	-	- 5
Mov Cap-1 Maneuver	84	49	575		56	51	458	_	781			599		_
Mov Cap-2 Maneuver	84	49	1		56	51			701	-		บออ		
Stage 1	302	363			191	249	_			_			1.0	
Stage 2	425	238	- 2		521	357	-				•		300	-
	120	200			J21	331			_	•	-		7.00	
Approach	SE			1200	NW.				NE			SW		
HCM Control Delay, s	37.6				62.1				0.3		-	Ū 1		_
HCM LOS	Ε				F							V.I		
Minor Lane/Major Mymt	NEL	NET	Altres	IVAH Sara	oti ex	CIVI	CUM	THAT IS						
				W/Ln1		SWL		SWR						
Capacity (veh/h)	781	*	7	79	154	599		. -						
HCM Cantrol Policy (a)	0.043	-			0.289			-						
HCM Control Delay (s)	9,8	- 11	55		37.6	11.1		7-1						
HCM Lane LOS	Α	-	-	F	Ε	В	-	-						
HCM 95th %tile Q(veh)	0.1			0.7	1.1	0.1	-	-						

Intersection										
nt Delay, s/veh	3.2									
Movement	SEL	- 3	SER		NEL	NET	B	SWT	SWR	
Fraffic Vol, veh/h	53		325		0	1087		436	63	
Future Vol, veh/h	53		325		0	1087		436	63	
Conflicting Peds, #/hr	0		Ó		0	0		0	0	
Sign Control	Stop		Stop		Free	Free		Free	Free	
RT Channelized	₹6		Stop			None			None	
Storage Length	Õ		Ő		-	-		574		
Veh in Median Storage, #	0		7		-	Ö		0	-	
Grade, %	0					Ö		Ó		
Peak Hour Factor	92		92		92	92		92		
Heavy Vehicles, %	2		2		2	2		Ž		
Mymt Flow	58		353			1182		474		
HAMPO IT II.	**.		.75T.		.2.1					
Major/Minor	Minor2			198	Majori			Major2		
Conflicting Flow All	1099		271		542	0		-		
Stage 1	508		-			7				
Stage 2	591		-		-	÷3		:4	_	
Critical Howy	6.84		6.94		4 14	7		-	₹.	
Critical Howy Stg 1	5.84		-		-	-		(4	**	
Critical Howy Stg 2	5.84		=		-				+1	
ollow-up Hdwy	3.52		3.32		2.22			9	+:	
Pot Cap-1 Maneuver	207		727		1023			<u>4</u>	÷	
Stage 1	569				e de la companya de l					
Stage 2	516		i i		- 2	(6)				
Platoon blocked, %			-			-		_	-	
Moy Cap-1 Maneuver	207		727		1023	1				
Mov Cap-2 Maneuver	207		1/53		1020	š			-	
Stage 1	569		T		10 12					
Stage 2	516		I.			1				
ougo z	.010									1
Approach	SE	THE CO		- 1	NE			SW		
ICM Control Delay, s	16,5				Q			Q	THE P	
ICM LOS	C				,.٤					
Minor Lane/Major Mvmt	NEL	NET SE	Ln1S	SELn2	SWT	SWR	4 9 13			CLEUL S
Capacity (veh/h)	1023		_	727	5					
ICM Lane V/C Ratio	1274			0.486	š					
CM Control Delay (s)	Ö		29	14.5	F	2				
HCM Lane LOS	A		D	В						
CM 95th %tile Q(veh)	0		11	27	<u>.</u>	(4)				

North Genesee No Build (2020) Timing Plan: PM Synchro 9 Report Page 5

ATTACHMENT C Level of Service Analysis

Build-Out 2020 Conditions



	4	×	1	F	K	7	7	×	74	Ĺ	×	10
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		4		1	P		7	^	7	7	^	7
Traffic Volume (veh/h)	27	0	49	289	0	31	34	537	158	105	913	53 53
Future Volume (veh/h)	27	0	49	289	0	31	34	537	158	105	913	53
Number	3	8	18	7	4	14	5	2	12		6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_ppT)	1.00		1,00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h	30	0	54	311	0	33	37	590	174	119	1038	60
Adj No. of Lanes	Q	1	Đ	1		0	1	2	1.1		2	1
Peak Hour Factor	0.90	0.90	0.90	0.93	0.93	0.93	0.91	0.91	0.91	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	183	30	258	471	0	414	209	1001	448	337	1119	500
Arrive On Green	0.26	0.00	0.26	0.26	0.00	0.26	0.04	0.28	0,28	0.15	0.63	0.63
Sat Flow, veh/h	432	115	986	1345	0	1583	1774	3539	1583	1774	3539	158 <u>3</u>
Sm Velume(v), vehih	84	Ó	D	311	Ō	33	37	590	174	119	1038	60
Grp Sat Flow(s),veh/h/ln	1533	Ö	Ö	1345	Ő	1583	1774	1770	1583	1774	1770	1583
O Sefte(q.s), s	0.0	0.0	0.0	11.7	0.0		1.0	10.0	6.2	3.2	18,3	1.1
Cycle Q Clear(g_c), s	2.7	0.0	0.0	14.4	0.0	1.1	1.0	10.0	6.2	3.2	18.3	1.1
Prop. in Lane	0.36		0.64	1.00		1.00	1.00		1.00	(,bg		1.00
Lane Grp Cap(c), veh/h	471	0	Ô	471	0	414	209	1001	448	337	1119	500
Veracix	0.18	0.00	0.00	0.66	0.00	0.08	0.18	0459	0.39	0,35	0.93	0.12
Avail Cap(c_a), veh/h	657	0	0	638	0	611	283	1112	498	352	1119	500
HCM Plateon Ratio	100	1,00	1.00	1.00	1,00	100	1.00	130	1.00	2,00	2.00	2,00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	0.80	0.80	0.80
Unionni Delay (il Saven	20.1	0.0	0.0	24.1	9.0	19.5	18.2	21.5	20.2	14.8	12.2	9,0
Incr Delay (d2), s/veh	0.3	0.0	0.0	2.3	0.0	0.1	0.1	0.7	0.6	0.2	12.1	0.4
nitial Q.Celav.(C.) siven	0.0	0.0	0.0	0,0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.3	0.0	0.0	5.9	0.0	0.5	0.5	5.0	2.8	1.5	10.2	0.5
	20.4	0.0	0.0	26.3	0.0	193	18.3	22.5	20.8	15.1	24.2	9.4
LnGrp LOS	C			C	3	В	В	C	С	В	C	A
To complete Wall		84			344			80			1217	
Approach Delay, s/veh		20.4			25.7			21.8			22.6	
Approach Delay, swell		20.4 G			Z3.7			21.0			Ç	
		844	- 4		-	-					2	_
Timer	-	2	3	4	5	- 6	100	8				
ASSERIE (Pip	3	2		4	5	6		B				
Phs Duration (G+Y+Rc), s	10.4	24.8		23.3	8.1	27.1		23.3				
Ananga Period (V+Ra), a	50	5.0		5.0	5.0	5.0		540				
Max Green Setting (Gmax), s	6.0	22.0		27.0	6.0	22.0		27.0				
	52	12.0	9.701	16.4	30	20.3		47				
Green Ext Time (p_c), s	0.0	7.8		1.9	0.0	1.6		2.6				
intersection Summary.				1 1	7			100	7-		100	- 11
HCM 2010 Ctrl Delay			22.7									
HEAPPING LOS			C									

North Genesee Build (2020) Timing Plan: AM

intersection	2 1 1								74 7				
***************************************	0.1												
(Innovention	OT!	- PAPER	orn.		A STATE OF THE PARTY OF THE PAR	- FORT	. Week					-	
Movement	SEL	SET	SER		NWL	TWN	NWR	NEL	NET	NER	SWL	SWI	SWE
Traffic Vol. veh/h	0	0	10	_	0	0	5	0	612	5	Ų	1056	26
Future Vol, veh/h	. 0	0	10		0	Ō	5	0	612	5	0	1056	26
Conflicting Peds, #/hr	0	0	0		0	0	0	_ 0	. 0	_ 0	_ 0	0	0
Sign Control	Stop	Stop	Stop		Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized			Stop		; , 		Stop			None			None
Storage Length	-	-	0			-	0		-	-		-	
Veh in Median Storage, #	, amon		-		-	0		4	0	, ,	- 3	0	
Grade, %	-	0	7,8 50		+	0			0	-		0	
Peak Hour Factor	92	92	92		92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2		2	2	2	2	2	2	2	2	2
Mymt Flow	0	0	11		0	0	5	. 0	665	5	0	1148	28
Major/Minor	Minor2			TA.	Alribe 1			Majori			Major2		
Conflicting Flow All	1495	1833	588		1242	1844	335	1176	0	0	671	0	0
Stage 1	1162	1162	-	-	668	668	000	111111111111111111111111111111111111111	J	•	0/1	-	
Stage 2	333	671	_		574	1176		- 5	-		•	-	
Critical Hdwy	7.54	6.54	6.94		7.54	6.54	6.94	4 14	<u> </u>		4.14		_
Critical Hdwy Stg 1	6.54	5.54	0,04		6.54	5.54	U.04	4 14				1.790	-
Critical Howy Stg 2	6.54	5.54			6.54	5.54	· · · ·		-	-	-	-	
Follow-up Hdwy	3.52	4.02	3.32		3.52	4.02	3.32	2.22	-	7.1	0.00		
Pot Cap-1 Maneuver	85	75	452		131	74	661	590	-	-	2.22 915	-	
Stage 1	207	267	732		414	455	001	ฉูลบ	•	-	910	-	
Stage 2	654	453	. 2		471	263			-	3.5	_	-	_
Platoon blocked, %	U04	400	-		971	200	_			. = ; .		. "	
Mov Cap-1 Maneuver	84	75	452		128	74	004	FAA			N/S P		
Mov Cap-1 Maneuver	84	75		<u>. </u>			6 61	590	· · · · ·		915	-	
		267	_		128	74			_		-	-	
Stage 1	207			-	414	455	-		-	1.5	-		
Stage 2	649	453	23		460	263	-				_	- (*)	
Approach	SE	- 1			NW			NE			SW		
HCM Control Delay, s	13,2				10.5			0	1		0		
HCM LOS	В				В								_
Minor Lane/Major Mymt	NEL	NET	NEDA	Wints	El ni	SWL	SWT	SWR					
Capacity (veh/h)	590	OH:	Distill	661	452	915	_						
HCM Lane V/C Ratio	research or	- 51		0.008				÷.					-
HCM Control Delay (s)	0		====	10.5	13.2	0	_	*					
HCM Lane LOS													
HCM 95th %tile Q(veh)	A 0	_	_	B 0	В	A							
LICIAI SONI WING M(AGU)	Ų			U	0.1	0	-1.						

Intersection		w.	44		U. H.							
Int Delay, s/veh	0.5											
Movement	SEL	SET	SER	NWI	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Traffic Vol., veh/h	0	Õ	21			27	25	701	30		1175	76
Future Vol, veh/h	0		21	(0	27	25	701	30	Ö	1175	76
Conflicting Peds, #/hr	Ď	0	Q			0	Ó	0	0	O	0	0
Sign Control	Stop	Stop	Stop	Stop		Stop	Free	Free	Free	Free	Free	Free
RT-Charinetized		i i	Stop			200	2		Free	7	÷	None
Storage Length		_	0			0	160		an water week		-	0
Veh in Median Storage, #	2	0	-		D	1		0	253	*	0	
Grade, %	-	Ö			-	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2		2	2	2	2	2	2	2
Map Flow	Ō	D	23	į	Ö	29	27	762	33	Ō	1277	83
MajoriMinor	Minor2			Minor			Majort		-	Major2		
Conflicting Flow All	1636	2093	639	1455	2093	381	1277	0		762	0	0
Stage 1	1277	1277	1	816		001	1211	3.	7	- 102		
Stage 2	359	816	<u>_</u>	639	1277		100				- 3	
Critical Howy	6.99	6,54	6.94	6,99		7,14	4414		1	5,34		
Critical Hdwy Stg 1	6.54	5.54	010-7	7.34	5.54		312	-		2,07		
Criscal Howy Sto 2	674	5.54		6.54			179	- 2		1	-	
Follow-up Hdwy	3.67	4.02	3.32	3.67	4.02	3.92	2.22	-	%	3.12	1	- 3
Palsara Mareuver	84	52	419	112		527	540	- 6	Õ	509		-
Stage 1	172	236	. 328	274	Steamer		303	-	Õ	Kean.	-	
Stage 2	598	389		4 (8		15.00		*	Ö	2		
Platoon blocked, %	. With a							-			-	::
Mov Cap I Maneuver	76	49	419	102	49	527	540	*	1 30	509	Ī	_
Mov Cap-2 Maneuver	76	49	- CALLE	102		-	-	-		#T.		- 22
Stage 1	163	236	ź	260	370	Ž.	4	-	*	1	÷	
Stage 2	536	370		395	236	_		-	79	7.		
Approach	SE	-		NW			NE			SW		
(2110-11-11 2 11-14-1	14.1	_		12.2		-	9.4		-	P	-	
HCM LOS	В			В						K.		
Minor Lane/Major Mymt	NEL	NETN	WLn1	SELn1 SWL	SWT	SWR			000	J. W. H		
Capacity (velvio)	540	-	- different St.	419 509		325						
HCM Lane V/C Ratio	0.05		0.056	0.054 -		-						
	12		12.2			- 5						
HCM Lane LOS	В	- 72	В	B A								
den som sode Elven	02	-	0,2	0.2 0		3					14	

	'	×	2	*	K	₹	7	*	74	4	K	1
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWE
Lane Configurations		र्स	7		4		*	† }		7	ተቡ	
Traffic Volume (veh/h)	33	0	60	10	0	10	36	532	26	. 15	1001	56
Future Volume (veh/h)	33	0	60	10	0	10	36	532	26	15	1001	56
Number	7	4	14	3	8	18	` 1	6	16	5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	Ö	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	- i	1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1863	1900	1863	1900	1863	1863	1900	1863	1863	1900
Adi Flow Rate, veh/h	36	0	65	11	0	11	39	578	28	16	1088	61
Adj No. of Lanes	0	1	1	0	1	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	426	ō	362	222	24	169	305	1862	90	494	1795	101
Arrive On Green	0.23	0.00	0.23	0.23	0.00	0.23	0.03	0.54	0.54	0.02	0.53	0.53
Sat Flow, veh/h	1414	0.00	1583	633	107	740	1774	3437	166	1774	3408	191
Grp Volume(v), veh/h	36	0	65	22	0	0	39	297	309	16		
Grp Sat Flow(s), veh/h/ln	1414	0	1583	1479						1 1 1 1 1 1 1 1	565	584
Q Serve(g_s), s	0.5	0.0	2,3		0.0	0	1774	1770	1833	1774	1770	1829
Cycle Q Clear(g_c), s	1.2	2		0.0		0.0	0.7	6.5	6.5	0.3	15.5	15.5
		0.0	2.3	0.7	0.0	0.0	0.7	6.5	6.5	0.3	15.5	15.5
Prop In Lane	1.00		1.00	0.50		0.50	1.00	250	0.09	1.00		0.10
Lane Grp Cap(c), veh/h	426	0	362	415	0	0	305	959	993	494	932	963
V/C Ratio(X)	0.08	0.00	0.18	0.05	0.00	0.00	0.13	0.31	0.31	0.03	0.61	0.61
Avail Cap(c_a), veh/h	426	0	362	415	0	0	353	959	993	568	932	963
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1 00	1 00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	0.00	0.92	0.92	0.92	1.00	1.00	1.00
Uniform Delay (d), s/veh	21.3	0.0	21.7	21.1	0.0	0.0	8.9	8.8	8.8	7.6	11.5	11.5
Incr Delay (d2), s/veh	0.4	0.0	1.1	0.2	0.0	0.0	0.2	0.8	8.0	0.0	2.9	2.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	0.0	1.1	0.4	0.0	0.0	0.4	3.3	3.5	0.1	8.3	8.5
LnGrp Delay(d),s/veh	21.7	0.0	22.8	21.3	0.0	0.0	9.1	9.6	9.6	7.6	14.4	14.3
LnGrp LOS	С		С	С			Α	A	Α	Α	В	В
Approach Vol, veh/h		101			22			645			1165	
Approach Delay, s/veh		22.4			21.3			9.6			14.3	
Approach LOS		С		-	С	-		Α			В	
Timer	_ 1_	2	- 3	4	5	5	- 7	8				
Assigned Pris	1	Ž.		4	5	6		8				
Phs Duration (G+Y+Rc), s	7.1	41.9		21.0	6.1	42.9		21.0				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0		5.0				
Max Green Setting (Gmax), s	4.0	35.0		16.0	4.0	35.0		16.0				
Max Q Clear Time (g_c+l1), s	2.7	17.5		4.3	2.3	8.5		2.7				
Green Ext Time (p_c), s	0.0	10.4		0.3	0.0	13.3		0.3				
Intersection Summary			-									
HCM 2010 Ctrl Delay			13.2									
HCM 2010 LOS			В									

North Genesee Build (2020) Timing Plan: AM

Intersection							- 4 50	
Int Delay, s/veh	10.9							
Movement	SEL	SER	NEL.	NET	SWT	SWR	-	-
The state of the s								
Traffic vol. veh/h	2 <u>6</u> 26	524 524	0		559 559	73 73		
Future Vol, veh/h			0		009	0		
Conflicting Peds, #/hr Sign Control	D Store	O Ctop			Free	Free		
	Stop	Stop	Free		FIEB			
RT Channelized		Stop		all and the last time		None		
Storage Length	0 	0			-			
Veh in Median Storage, #	ŧ Ö	-		0	0	-		
Grade, %		00	. no		0	92		
Peak Hour Factor	92	92	92		92			
Heavy Vehicles, %	2	2	2		2	2		
Mymt Flow	28	570	้า	671	608	79		
Major/Minor	Minor2	-	Majort		Major2		-	
Conflicting Flow All	982	343	687	0	÷	0		
Stage 1	647							
Stage 2	335	-	_		-	-		
Critical Howy	6.84	6.94	4,14			F		
Critical Hdwy Stg 1	5.84	6 1.12	. dilb.3. L.			_		
Critical Howy Stg 2	5.84	- A		-		-		
Follow-up Hdwy	3.52	3.32	2.22		ş	0.60		
Pot Cap-1 Maneuver	246	653	903			-		
Stage 1	483				9	-		
Stage 2	697	-	4	1				
Platoon blocked, %	.7.51				_	/'. μ		
Mov Cap-1 Maneuver	246	653	903	(4)	Ţ.	-		
Mov Cap-2 Maneuver	246			-				
Stage 1	483			741	9	÷		
Stage 2	697	+	-	-	_	-		
July 2								
Approach	SE		NE		SW		100	
HCM Control Delay s	35.7		Q		9			
HCM LOS	E.							
Minor Lane/Major Mymt	NEL	NET SELVI	SELn2 SWT	SWR	-			
Capacity (ven/n)	903	- 246	653 -					
HCM Lane V/C Ratio	702	- 0.115	0.872 -	. = .9				
HCM Control Delay (s)	0	- 21.5	36.4					
HCM Lane LOS	Ä	- C	E -	-				
HCM 95th %tile Q(veh)	6	- 0.4	10.3	1				
The state of the s	<u> </u>							

North Genesee Build (2020) Timing Plan: AM

	4	×	1	<i>I</i>	X	*	7	A	- CAL	Ĺ	K	100
Movement	SEL	SET	SER	NVVL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		4		7	P		j	44	7	7	ተተ	7
Traffic Volume (veh/h)	93	5	83	294	0	68	92	962	231	95	900	83
Future Volume (veh/h)	93	5	83	294	0	68	92	962	231	95	900	83
Number	3	8	18	7	4	14	5	2	12	1	6	16
Initial Q (Qb), veh	Ö	0	0	0	0	0	0	0	0	0	0	0
Ped Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1 00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h	95	5	85	346	0	80	106	1106	266	99	938	86
Ad No. of Laries	Ď	j	0	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.98	0.98	0.98	0.85	0.85	0.85	0.87	0.87	0.87	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	278	36	201	496	0	488	339	1256	562	257	1251	560
Arrive On Green	0.31	0.31	0.31	0.31	0.00	0.31	0.07	0.36	0.36	0.15	0.71	0.71
Sat Flow, veh/h	650	116	651	1301	Ö	1583	1774	3539	1583	1774	3539	1583
Srp.Volume(v), Veh/h	185	Ď	ð	346	Ō	Q8	106	1106	266	99	938	86
Grp Sat Flow(s),veh/h/ln	1417	Ô	0	1301	0	1583	1774	1770	1583	1774	1770	1583
Q Serve (q_s), s	4.9	0.0	0.0	10.6	0.0	2.6	25	20.5	9,1	2.3	11.6	1.3
Cycle Q Clear(g_c), s	7.5	0.0	0.0	18.1	0.0	2.6	2.5	20.5	9.1	2.3	11.6	1.3
Prop in Lane	0.51		0.46	1.00		1.00	1.60		1.00	1:00		1.00
Lane Grp Cap(c), veh/h	514	0	0	496	0	488	339	1256	562	257	1251	560
VIC RabolX)	0.36	0.00	0.00	0.70	0.60	0.16	0.31	0.88	0.47	0.39	0.75	0.15
Avail Cap(c_a), veh/h	564	0	0	541	0	543	358	1264	565	279	1264	5 65
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	100	1.00	100	1.00	2,00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	0.64	0.64	0.64
Juliom Delay (d), siveh	19.3	0.0	0.0	23 1	0.0	17.6	13.4	21.2	17.5	14.7	8.3	6.8
Incr Delay (d2), s/veh	0.6	0.0	0.0	4.1	0.0	0.2	0.2	7.4	0.6	0.2	2.7	0.4
nitial C Delay(d3) siveh	0.0	0.0	0.0	0.D	0,0	0,0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.9	0.0	0.0	6.9	0.0	1.2	1.3	11.3	4.1	1.1	5.7	0.6
nero salaval seeli	20.0	0.0	0.0	27.2	10		N.5	28.5	18.1	14.9	110	7.2
LnGrp LOS	В	. Mek.	1 12	C		В	B	C	B	В	B	Α
Norbách Vál-ven/h		185			425			1478			1123	
Approach Delay, s/veh		20.0			25.4			25.6			11.1	
				_	20.4	-		20.0			8	
		В									₽.	
Timer		2	3	4	5	- 6	7	8				
Assigned Phs	j	Ž		4	ō	9.7		Ď				
Phs Duration (G+Y+Rc), s	10.1	29.9		26.6	10.2	29.7		26.6				
Change Period (Y4Rc), s	5 Q	5.0		5,0	5.0	5.0		5.Q				
Max Green Setting (Gmax), s	6.0	25.0		24.0	6.0	25.0		24.0				
Mare release international lines	4.3	22.5	<u> </u>	20.1	4.5	13.6		9.5				
Green Ext Time (p_c), s	0.0	2.3		1.5	0.0	9.9		3.6				
Intersection Summary		البيال		10 10								
HCM 2010 Ctrl Delay			20.2									
HCM 2010 LOS			C									

North Genesee Build (2020) Timing Plan: Mid Day

3: Genesee St & Harbour Lock Rd

SEL 0 0 0 0	SET	SER 15			30								
0 0 0	0												
0 0 0	0			TARREST.									
0		15		NWL	NWT	NWR		NEL	NET	NER	SWL	SWT	SWR
Ō	0			0	0	15		0	1094	26	0	983	15
	_	15		0	0	15		0	1094	26	0	983	15
	0	0		0	0	. 0		0	0	0	0	0	0
Stop	Stop	Stop		Stop	Stop	Stop		Free	Free	Free	Free	Free	Free
		Stop		_	-	Stop		1200		None			None
08	_	0		-	-	0		-	_	-	-	_	
	0	-		-	0	-		(6)	0	11/2	-	0	
-	Ó	-		-	Ö	-		-	0	_		0	-
92	92	92		92	92	92		92	92	92	92	92	92
2	2	2		2	2	2	A.*	2	2	2	2	2	1 2
0	.0	16		0	0	16		Ō	1189	28	0	1068	16
						•							
Minor2	U.L.		- 1	Visort			M	ajor1		1000	Major2		
1672	2294	542		1737	2288	609			0	0		0	0
1077	1077	1				-			-				Ĭ.
595	1217	-				-		-	42		-		
7.54	6.54	6.94				6.94		4.14	- 2		4 14		H
6.54		-								_	1.11	_	
												1 1 2	
		3.32				3.32		2 22		_			
		2,12									-		
		- 4									- 2		
					. 1. 3					-			
61	39	485		54	39	438		630		_	560		I I
						100		7 7 7/4			505	-	
						- 3							, a
						_						-	- 6
	202			701	231								
SE				NW				NE			SW		
В				В				Ų			<u> </u>		
NEL	NET	NERN	WLn13	ELn1	SWL	SWT	SWR					-	
639		-		-	_		-						
	- 6				1 - 2000								
		70											
	1672 1672 1077 595 7 54 6.54 6.54 3.52 63 234 458 61 61 234 441	0 0 Minor2 1672 2294 1077 1077 595 1217 7.54 6.54 6.54 5.54 6.54 5.54 3.52 4.02 63 39 234 293 458 252 61 39 61 39 234 293 441 252 SE 12.7 B NEL NET 639 - 0 - A	0 0 16 Minor2 1672 2294 542 1077 1077 - 595 1217 - 7 54 6.54 6.94 6.54 5.54 - 6.54 5.54 - 3.52 4.02 3.32 63 39 485 234 293 458 252 61 39 485 61 39 - 234 293 - 441 252 - SE 12.7 B NEL NET NERN 639 0 - A -	0 0 16 Minor2 1672 2294 542 1077 1077 - 595 1217 - 7 54 6.54 6.94 6.54 5.54 - 6.54 5.54 - 3.52 4.02 3.32 63 39 485 234 293 458 252 61 39 485 61 39 - 234 293 - 441 252 - NEL NET NERNWINT 8 NEL NET NERNWINT 639 - 438 0.037 0 - 13.5 A - B	Minor2	Minor2 Minor3 1672 2294 542 1737 2288 1077 1077 - 1203 1203 595 1217 - 534 1085 7.54 6.54 6.94 7.54 6.54 6.54 5.54 - 6.54 5.54 6.54 5.54 - 6.54 5.54 3.52 4.02 3.32 3.52 4.02 63 39 485 56 39 234 293 - 196 256 458 252 - 498 291 61 39 485 54 39 61 39 - 54 39 61 39 - 54 39 234 293 - 196 256 441 252 - 481 291 SE NW 12.7 13.5 B B B B N	Minor2	Minor2 Minor1 M 1672 2294 542 1737 2288 609 1077 1077 - 1203 1203 - 595 1217 - 534 1085 - 7 54 6.54 6.94 7.54 6.54 6.94 6.54 5.54 - 6.54 5.54 - 6.54 5.54 - 6.54 5.54 - 3.52 4.02 3.32 3.52 4.02 3.32 63 39 485 56 39 438 234 293 - 196 256 - 458 252 - 498 291 - 61 39 485 54 39 - 61 39 - 54 39 - 234 293 - 196 256 - 441 252 - 481 291 - SE NW 12.7 13.5 B NEL NET NERWINI SEL11 SWL SWF SWR 639 - 438 485 569 - 0.037 0.034 - 0 - 13.5 12.7 0 - A - B B A	Minor2	Minor	Minor2	Minor2	Minor2

	4	¥	1	~	K	ť	7	×	74	Ĺ	K	*
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		र्स	7		4	,	7	41		7	ተ ው	
raffic Volume (veh/h)	213	0	185	5 5	0	5	195	892	37	15	887	175
Future Volume (veh/h)	213	0	185			5	195	892	37	15	887	175
Number	7	4	14	3	8	18	1	6	16	5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped Bike Adj(A_pbT)	1,00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1863	1900	1863	1900	1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h	232	Ö	201	5	0	5	212	970	40	16	964	190
Adj No, of Lanes	D	1	1	Ö	j	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	340	0	385	80	24	28	350	1828	75	321	1345	265
Arrive On Green	0.24	0.00	0.24	0.24	0.00	0.24	0.09	0.53	0.53	0.02	0.46	0.46
Sat Flow, veh/h	976	0	1583	13	100	114	1774	3464	143	1774	2949	581
3rp Volume(v), veh/h	232	Ó	201	10	Ď	Ö	212	495	515	16	578	576
Grp Sat Flow(s),veh/h/ln	976	Ô	1583	228	Ō	0	1774	1770	1838	1774	1770	1760
Q Serve(g_s), s	0.0	0.0	12	0.1	0.0	0.0	4.1	12.9	12.9	0.3	18.5	18 5
Cycle Q Clear(g_c), s	16.7	0.0	7.7	16.8	0.0	0.0	4.1	12.9	12.9	0.3	18.5	18.5
Prop In Lane	100		1,00	0.50	-	0.50	1.00		0.08	1.00		0.33
Lane Grp Cap(c), veh/h	340	Ö	385	132	Ò	0	350	934	969	321	807	803
V/C Ratio(X)	0.68	0,00	0.52	0.08	DECO	0.00	0.61	0.53	0.53	0.05	0.72	0.72
Avail Cap(c_a), veh/h	340	0	385	132	Ō	0	398	934	969	395	807	803
HCA) Platoon Ratio	1.00	1.00	1,00	140	W	1.00	1.00	100	1.00	1,00	1.00	1:00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	0.00	0.55	0.55	0.55	1.00	1.00	1.00
Unition Delay (d), s/veh	26.4	0.0	23.0	217	00	0.0	12.6	10.3	10.8	10.3	15.4	15.4
Incr Delay (d2), s/veh	10.6	0.0	5.0	1.1	0.0	0.0	1.2	1.2	1.2	0.1	5.4	5.5
Inffial Q Delay(d3) s/veh	0.0	0.0	0.0	0,0	þö	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.4	0.0	3.9	0.2	0.0	0.0	2.1	6.5	6.7	0.2	10.2	10.2
rung Delay(d) aven	37.0	0.0	20.0	22.8	0.0	0.0	137	12.0	12.0	104	20.8	20.9
LnGrp LOS	D		C	C	3.5	20	. 38.44 B	B	В	B B	C	C
Rodesen vol Vedri		438			10			1222			1170	
Approach Delay, s/veh		32.8	_		22.8			12.3	_		20.7	
			_								20.7	
Agendaci) E&S		Ĉ			Č			9			H.	
Timer	- 3	2	130	- 4	5	- 6	7.	8				
Assigned Phs	. 1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	11.1	36.9		22.0	6.1	41.9		22.0				
Change Period (Y#Rc), s	5.0	5.0		5,0	5.0	50		5.0				
Max Green Setting (Gmax), s	8.0	30.0		17.0	4.0	34.0		17.0				
Max Q Clear Time (g. c+11), s	6 1	20.5		18.7	2,3	14.9		18.8				
Green Ext Time (p_c), s	0.1	7.6		0.0	0.0	13.5		0.0				
Intersection Summary						16 ,						
			18.9									
HGM20101LOS			8									
HCM 2010 Ctrl Delay HCM 2010 LOS			18.9 <u>§</u>				11.00					

North Genesee Build (2020) Timing Plan: Mid Day

Intersection	1000		100						97				
Int Delay, s/veh	0.7											=	
Movement	SEL	SET	SER		NWE	AVVVT	NWR	NEL	NET	NER	SWL	SWI	SWR
Trattic Vol, veh/h	. 0	0	46		0	0	58	13	1227	24	0	1219	-
Future Vol, veh/h	Ó	0	46		Ö	Ö	58	13	1227	24	0	1219	58
Conflicting Peds, #/hr	0	0	0		0	0	. 0	0	0	0	0	0	
Sign Control	Stop		Stop		Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	11112		Stop		1	-	Stop	1100	1100	Free	1100	-	
Storage Length	14	_	0		_	-	0.00	160		1100			140116
Veh in Median Storage, #		0			- 4	0		100	. 0			0	
Grade, %	0.4		_		_	0	<u>. </u>		0	-		0	
Peak Hour Factor	92	_	92		92	92	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2		2	2	2	2	2	2	2	2	
Mymt Flow	Ō	ō	50		0	Õ	63	14	1334	26	0	1325	63
6	***												
Major/Minor-	Minor2				Minort			Major1			Major2	THE	
Conflicting Flow All	1887	2687	663		2025	2687	667	1325	0	<u>:</u>	1334	0	
Stage 1	1325	1325	-		1362	1362	- 1	-			-	-	-
Stage 2	562	1362	-		663	1325	-			-	-	-	
Critical Hdwy	6 99	6.54	6.94		6.99	6.54	7 14	4.14	-	•.	5.34	-	-
Critical Hdwy Stg 1	6.54	5.54			7.34	5.54	-	_	_		-	-	
Critical Hdwy Stg 2	6.74	5.54			6.54	5.54	_	-	14.		-	-	
Follow-up Hdwy	3.67	4.02	3.32		3.67	4.02	3.92	2.22	-		3.12	-	
Pot Cap-1 Maneuver	57	21	404		45	21	344	517	10 347	0	269	_	
Stage 1	161	223	-		113	214	- 7,5,1			0	. 2,00	-	-
Stage 2	450	214	72		405	223			Ph.	D			
Platoon blocked, %						. .						_	
Mov Cap-1 Maneuver	46	20	404		39	20	344	517		49	269		
Mov Cap-2 Maneuver	46	20			39	20	- VIII		- 4		1 500		-
Stage 1	157	223	_		110	208							_
Stage 2	358	208	72		355	223	-		7/	:		2	
Americanski	in.	=			Chinas			TAVE					
Approach	SE		-	_	NW	_	_	NE			SW	200	
HCM Control Delay, s	15.2		15		17.8			0.1			0		
HCM LOS	С				С								
Minor Lane/Major Mvmt	NEL	NED	WLn1	SELn1	SWL	SWIT	SWR	10000					
Capacity (veh/h)	517	_	344	404	269	-	7						
HCM Lane V/C Ratio	0.027		0.183				- 12						
HCM Control Delay (s)	12.2		17.8	15.2	0								
HCM Lane LOS	В		().0	C	A								
HCM 95th %tile Q(veh)	0.1		0.7	0.4	0								
LISTE AGEL MINE OF ACITY	, U, I		9/1	U.4	U								

15: Genesee St & Thruway / I-790 Ramp

Intersection							
Int Delay, s/veh 3	1.5						
PACCOLANGE IN COLUMN TO THE PA	- AMILIA	200	C001		Nation	alvie.	
Movement	SEL	SER				SWR	
Traffic Vol, veh/h	21	350		1110	649	42	
Future Vol, veh/h	21	350			649	42	
Conflicting Peds, #/hr	0	0		. 0	0	0	
Sign Control	Stop	Stop				Free	
RT Channelized	-	Stop		None		None	
Storage Length	0	0	-	-	_	-	
Veh in Median Storage,#	0	7			0	-	
Grade, %	0			0	0	-	
Peak Hour Factor	92	92	- 2/92	W-	92	92	
Heavy Vehicles, %	2	2			2	2	
Mynt Flow	23	380	Ō	1207	705	46	
Major/Minor	Minor2		Majort		Major2		
Conflicting Flow All	1331	376	751	0		0	
Stage 1	728	=		7	2	1-7%	
Stage 2	603		-	-		-	
Critical Howy	6.84	6.94	4.14	- 4		-	
Critical Hdwy Stg 1	5.84		-	-		-	
Critical Howy Stg 2	5.84					-	
Follow-up Hdwy	3.52	3.32	2.22	_	-	-	
Pot Cap-1 Maneuver	146	622		*	1 2		
Stage 1	439			-	-	-	
Stage 2	509						
Platoon blocked, %	\$			-		-	
Mov Cap-1 Maneuver	146	622	854	7	7	14	
Mov Cap-2 Maneuver	146	- - - -	-			-	
Stage 1	439				1 T	-	
Stage 2	509			-		-	
Approach	SE	A COLUMN	NE		SW		
CM Control Delay, s	20,3		Q		P		
HCM LOS	C				- <u></u>		
Minor Lane/Major Mymt	NEL	NET SELn1	SELn2 SWT	SWR			
Capacity (yeh/h)	854	- 146	622 -	9			
HCM Lane V/C Ratio	7.726	- 0.156	0.612 -	-			
HCM Control Delay (s)	0	- 34.2	19.5				
HCM Lane LOS	Ā	- D					
HCM 95th %tile Q(veh)	0	- 0.5	4.2				

North Genesee Build (2020) Timing Plan: Mid Day

	4	X	À	F	K	*	7	*	a	4	K	100
Movement	SEL	SET	SER	NWL.	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		4		Y	14		7	44	7	7	^	7
Traffic Volume (veh/h)	58	0	44	200	0	194	98	1192	210	68	837	67
Future Volume (veh/h)	58	0	44	200	0	194	98	1192	210	68	837	67
Number	3	8	18	7	4	14	5	2	12	1	6	16
Initial Q (Qb), veh	Ö	0	0	0	0	0	0	Ô	0	0	0	0
Ped Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/lin	1900	1863	1900	1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h	62	0	47	250	Ô	242	105	1282	226	72	890	71
Ad No. of Lanes	0	1	0	1	1	O	1	2	1	1	2	1
Peak Hour Factor	0.94	0.94	0.94	0.80	0.80	0.80	0.93	0.93	0.93	0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	163	21	78	393	0	392	439	1540	689	257	1505	673
Arrive On Green	0.25	0,00	0.25	0.25	0.00	0.25	0.07	0.44	0.44	0.13	0.85	0.85
Sat Flow, veh/h	331	86	316	1353	0	1583	1774	3539	1583	1774	3539	1583
Grp Volume(v), veh/h	109	Ö	Ŏ	250	Q	242	105	1282	226	72	890	71
Grp Sat Flow(s), veh/h/ln	734	0	0	1353	0	1583	1774	1770	1583	1774	1770	1583
Q Serve(g_s), s	3.5	0.0	0.0	1.8	0.0	9,5	2.2	22.5	6.6	15	5.3	0.5
Cycle Q Clear(g_c), s	13.0	0.0	0.0	14.8	0.0	9.5	2.2	22.5	6.6	1.5	5.3	0.5
Prop in Lane	0.57	0.0	0.43	1.00	0.0	100	1.00	22.0	1.00	1.00	0.0	1,00
Lane Grp Cap(c), veh/h	262	0	. 8638	393	0	392	439	1540	689	257	1505	673
V/C Ratio(X)	0.42	0.00	0.00	0.64	0.00	0.62	0.24	0.83	0.33	0.28	0.59	0.11
Avail Cap(c_a), veh/h	275	0	0	406	0	407	458	1567	701	294	1567	701
HCM Platoon Ratio	1.00	1,00	100	1.00	1,00	1300	1.00	100	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	0.74	0.74	0.74
Uniform Delay (d), s/veh	25.6	0.0	0.0	25.5	0.0	23.A	9.6	17.5	13.0	12.7	3.4	31
Incr Delay (d2), s/veh	1.5	0.0	0.0	3.7	0.0	3.2	0.1	3.9	0.3	0.2	1.3	0.2
Initial Q Delay(d3);s/veh	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0,0	0.0
%ile BackOfQ(50%),veh/ln	2.1	0.0	0.0	5.1	0.0	4.5	1.1	11.7	2.9	0.7	2.5	0.2
Ingro Delayid).s/veh	27	0.0	0.0	29.2	0.0	26.5	9.7	21.5	13.3	12.9	4.7	3.3
LnGrp LOS	C	4.0	0.0	C	74	C	A	C	B	B	A	A
		109			492			1613			1033	
Approach Vol. veh/h					27.9			19.5			5.2	
Approach Delay, s/veh		27.1			21.9						0.Z	-
A Comment of the Comm		Ç			<u> </u>			В			M.	
Timer	1	2	3	4	. 5	- 6	76	8				
Assigned Phs	7	2		4	ā	6		ä				
Phs Duration (G+Y+Rc), s	9.5	35.5		22.3	10.2	34.8		22.3				
Ghange Period (Y+Rc), s	5.0	5.0		5,0	5.0	5.0		5,0				
Max Green Setting (Gmax), s	6.0	31.0		18.0	6.0	31.0		18.0				
Max & Clear Time (c. ctl.), s	3.5	24.5		16.8	42	73		15.0				
Green Ext Time (p_c), s	0.0	6.0		0.5	0.0	19.1		1.2				
Intersection Summary	-				-	يك		-	OE=	- 12		
HCM 2010 Ctrl Delay			16.5									
HGM2010LOS			В							8 1		

North Genesee Build (2020) Timing Plan: PM

Intersection		18				7 7		371		7 6 10		
Int Delay, s/veh	0.2											
Movement	SEL	SET	SER	NWL	NVVT	NWR	NEU	NET	NER	SWL	SWI	SWE
Traffic Vol, veh/h	0	0	10	0		10	0	1268	21	5	913	15
Future Vol. veh/h	0	0	10	O	·		Ö	1268	21	5	913	15
Conflicting Peds, #/hr	0	Ö	0	_			0	0	0	0	913	. (
Sign Control	Stop	Stop	Stop	Stop			Free	Free	Free	Free	Free	Free
RT Channelized	-	-	Stop	Ciop	Otop_	Stop	1100	1100	None	-	1166	None
Storage Length	-		0		-	0.00	_		140110	-		INOTIC
Veh in Median Storage, #		0			. 0	-		0		100	0	
Grade, %		0			_		-	0			0	
Peak Hour Factor	92	92	92	92		92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2			2	2	2	2	2	2
Mymt Flow	Ō.	Ō	11	Ō		11	0	1378	23	5	992	16
Major/Minor	Minor2	4		Minort			Major1			Major2		
Conflicting Flow All	1700	2412	504	1897		701	1009	0	0	1401	0	0
Stage 1	1011	1011	_ 2	1390				-	-	7.77	-	
Stage 2	689	1401		507	1020	-	-	-	1,50	-		12
Critical Hdwy	7.54	6.54	6.94	7.54		6.94	4.14	-	-	4.14	-	
Critical Hdwy Stg 1	6.54	5.54	_	6.54		_	-	-	-	-		2.5
Critical Hdwy Stg 2	6.54	5.54		6,54		-					2.0	7
Follow-up Hdwy	3.52	4.02	3.32	3.52		3.32	2.22		-0.5	2.22		
Pot Cap-1 Maneuver	60	32	513	42		381	683	-	-	484		-
Stage 1	257	315		150		-	-		1375			
Stage 2	402	205		516	312	-		-			71	3
Platoon blocked, %	5 50								(5)		7.	
Mov Cap-1 Maneuver	57	31	513	40	31	381	683	-	-	484	-	
Mov Cap-2 Maneuver	57	31	-	40	-	-	-	-		-		
Stage 1	257	307		150			-			- I	-	-
Stage 2	391	205	-	493	305		-	-	-		7.	
Approach	SE			NW		-	NE			SW	_	
HCM Control Delay, s	.12.2			14.7			0			0.2		
HCM LOS	В			В						0.2		
Minor Lane/Major Mvmt	NEL	NET	INCEPA	MIN WAS CITED AN	CHAR	200 A V	CAUD					
		NET		WLn1 SELn1	SWL		SWR		11		74	
Capacity (veh/h)	683		:- -	381 513	484	-	-					
HCM Lane V/C Ratio	-		-	0.029 0.021		-	-					
HCM Control Delay (s)	0.	- 1		14.7 12.2	12.5	0.1	-					
HCM Lane LOS	A	-	-	В В		Α	-					
HCM 95th %tile Q(veh)	0			0.1 0.1	0	-	*					

Intersection		100					E-12	1000	-		100	
	1.3											
	2000	-	-			-		V. Program	THE PERSON NAMED IN	CONTRACTOR	TO A PER	Ten were
Movement	SEL	SET	SER	NW		NWR	NEL	NET	NER	SWL	SWT	SWR
Traffic Vol, veh/h	0	9	78		0	85	33	1415	38	Ũ	1028	53
Future Vol, veh/h	0	0	78		0	85	33	1415	38	0	1028	53
Conflicting Peds, #/hr	0	0	0	{		0	D	0	0	_ 0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized		Ţ.	Stop		1	A PARAMETER AL	400		Free			None
Storage Length	_	-	0		·	0	160	-			-	0
Veh in Median Storage, #	4	0			. 0	-		0	. "		0	
Grade, %		0	- 22		0	1000	-	0		1 44	0	-
Peak Hour Factor	92	92	92	9		92	92	92	92	92	92 2	92
Heavy Vehicles, %	2	2	2			2	2	2	2	2	2	2
Myrint Flow	Ó	0	85	<u> </u>	Ō	92	36	1538	41	0.	1117	58
Major/Minor	Miner2			Minor	9		Majorf	100		Major2		
Conflicting Flow All	1804	2727	559	2169		769	1117	0		1538	0	0
Stage 1		1117		1631			· · · · · · · · · · · · · · · · · · ·	-	-		i i	ļ.
Stage 2	687	1610	_	559					-	-	-	-
Critical Flowy	6.99	6,54	6.94	6.93		7.14	4.14		- 1	5.34	- 8	
Critical Hdwy Stg 1	6.54	5.54		7.34		144.4		_	- 4			
Critical Howy Stg 2	6.74	5 54		6.54		· · · · · · · · · · · · · · · · · · ·	-		14	ų.		Ţ
Follow-up Hdwy	3.67	4.02	3.32	3.67		3.92	2.22	_		3.12		-
Pot Gap-1 Maneuver	65	20	472	34		295	621	· · · · · · · · · · · · · · · · · · ·	0	213		2
Stage 1	216	281	2.3.20	75	162	TORE.	. 2172	_	Ő	. 774.75		-
Slage 2	377	162	- G	49		2	35		0			1
Platoon blocked, %	79.00				er			_	"£,		-	
Mov Cap-1 Maneuver	43	19	472	2	19	295	621	7		213	100	70 ·
Mov Cap-2 Maneuver	43	19	4376.	28		77.00	<i>2072</i> t	- 4.	_	16e7		
Stage 1	203	281	Ę	7		- 5	1	- 5			7	
Stage 2	244	153	<u>.</u>	382			_	_	 		.5	-
Giago 2		100			201							
Approach	SE	UE.	7.	NV)		=1 1	NE			SW		
FICH Control Delayes	14.2			22.7			0.3			Q		
HCM LOS	В		-	C								_
WARRANT THE STATE OF THE STATE	Simi	(National)	NAME OF STREET	SELA1 SWL	CHAPT	SWR						
Minor Lane/Major Myrnt	NEL		WLn1 S									
Dapacity (veh/h)	621		295	412 213		Be	0.00		-			
HCM Lane V/C Ratio	0.058		0.313	0.18								
HCM Control Delay (s)	11.2	- -	22.7	143		. 1.						
HCM Lane LOS	В		C	B A		_						
FCM 95th %ile Q(veh)	0,2	<u> </u>	13	Q.6 G	- 3	= 88						

	4	×	1	*	K	7	7	×	a	Ĺ	K	*
Movement	SEL	SET	SER	NWL	INWT	NWR	NEL	NET	NER	SVVL	SWT	SWE
Lane Configurations		सी	7		4		*	†		*	ተጉ	
Traffic Volume (veh/h)	122	5	101	10	0	5	141	1072	74	10	861	99
Future Volume (veh/h)	122	5	101	10	0	5	141	1072	74	10	861	99
Number	7	4.	14	3	8	18	1	6	16	5	2	12
initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	THE STATE OF	1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1863	1900	1863	1900	1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h	133	5	110	11	0	5	153	1165	80	11	936	108
Adj No. of Lanes	0	1	1	0	1	0	1	2	0	i	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	425	14	362	232	16	73	372	1836	126	258	1566	181
Arrive On Green	0.23	0.23	0.23	0.23	0.00	0.23	0.07	0.55	0.55	0.01	0.49	0.49
Sat Flow, veh/h	1415	62	1583	636	69	320	1774	3361	231	1774	3198	369
Grp Volume(v), veh/h	138	0	110	16	0	0	153	613	632	11	518	526
Grp Sat Flow(s),veh/h/ln	1477	Ö	1583	1025	0	0	1774	1770	1822	1774	1770	11.1.64
Q Serve(g_s), s	0.0	0.0	4.0	0.0	0.0	0.0	28	16.8				1798
Cycle Q Clear(g_c), s	5.1	0.0	4.0	5.1	0.0	0.0	2.8		16.9	0.2	14.8	14.8
Prop In Lane	0.96	0.0	1.00	0.69	0.0			16.8	16.9	0.2	14.8	14.8
Lane Grp Cap(c), veh/h	439	0	362	321		0.31	1.00	000	0 13	1.00	007	0.21
V/C Ratio(X)	0.31	0.00	0.30	0.05	0.00	0	372	966	995	258	867	880
Avail Cap(c_a), veh/h	439	0.00	362	321		0.00	0.41	0.63	0.64	0.04	0.60	0.60
HCM Platoon Ratio	1 00	1.00	1 00	:	0	1.00	481	966	995	340	867	880
Upstream Filter(I)	1.00			1.00	1 00	1.00	1.00	1.00	1.00	1 00	1.00	1.00
		0.00	1.00	1.00	0.00	0.00	0.61	0.61	0.61	1.00	1.00	1.00
Uniform Delay (d), s/veh	22.8	0.0	22.4	21.1	0.0	0.0	9.5	11.0	11.0	10.0	12.9	12.9
Incr Delay (d2), s/veh	1.9	0.0	2.2	0.3	0.0	0.0	0.4	1.9	1.9	0.1	3.0	3.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	0.0	2.0	0.3	0.0	0.0	1.4	8.7	9.0	0.1	7.9	8.0
LnGrp Delay(d),s/veh	24.7	0.0	24 5	21 4	0.0	0.0	10.0	13.0	12.9	10.1	15.9	15.9
LnGrp LOS	С		С	С			Α	B	В	В	В	В
Approach Vol, veh/h	,	248			16			1398			1055	
Approach Delay, s/veh		24.6			21.4			12.6			15.8	
Approach LOS		С			C			В			В	
Timer	1	2	3	4	5	6	7	6				
Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	9.7	39.3		21.0	5.8	43.2		21.0				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0		5.0				
Max Green Setting (Gmax), s	9.0	30.0		16.0	4.0	35.0		16.0				
Max Q Clear Time (g_c+l1), s	4.8	16.8		7.1	2.2	18.9		7.1				
Green Ext Time (p_c), s	0.1	10.5		0.8	0.0	12.4		0.8				
intersection Summary		G 1 1 4					-		-			
HCM 2010 Ctrl Delay			15.0									
HCM 2010 LOS			В									

Intersection	36.		100		215	- A - F -		-	1123	
Int Delay, s/veh	4.4									
Movement	SEL	SER		NEL	NET		SWT	SWR		
Traffic Vol, veh/h	53	400		D	1272		534	63		
Future Vol, veh/h	53	400		0	1272		534	63		
Conflicting Peds, #/hr	Ő	0		0	0		0	0		
Sign Control	Stop	Stop		Free	Free		Free	Free		
RT Channelized	-	Stop		2	None			None		
Storage Length	0	0		-	-		1	=		
Veh in Median Storage, #	0	(*		-	0		0	#		
Grade, %	0			-	0		0	-		
Peak Hour Factor	92	92		92	92		92	92		
Heavy Vehicles, %	2			2	2		2	2		
Mvmt Flow	58	435		0	1383		580	68		
Major/Minor	Minor2	-	N.	tajor1	-		Major2		-	
Conflicting Flow All	1306	324		649	0		triage.ac	0		
Stage 1	615	J24		070				185		
Stage 2	691			-			-	-		
Critical Howy	6.84	6.94		4.14	-		19	÷		
Critical Hdwy Stg 1	5.84	-						2.0		
Critical Howy Stg 2	5,84			1	-			-		
Follow-up Hdwy	3.52	3.32		2.22				3.0		
Pot Cap-1 Maneuver	151	672		933	(S)		è	1		
Stage 1	502			. CHT.	-			-78		
Stage 2	459	1 1		÷	= =====================================			- -		
Platoon blocked, %	. A F.L.				1,4			2 4		
Mov Cap-1 Maneuver	151	672		933	-					
Mov Cap-2 Maneuver	151	W.C		_ 2222	===		9			
Stage 1	502			× ×	- 4		#	2		
Stage 2	459	*		-	-			-		
Approach	SE	1000		NE		-	SW			
ICM Control Delay, e	22.3			9			0			
-ICM LOS	C						¥.			
Minor Lane/Major Mymt	NEU	NET SELDT	SELn2	SWT	SWR				1.45	
Capacity (veh/h)	933	151	672		ī					
HCM Lane V/C Ratio	-	- 0.382	0.647	-	- 1					
(GM Control Delay (6)	Q	- 428	19.6	-	- 4					
HCM Lane LOS	Α	- E	C	-						
HCM 95th %tile Q(veh)	0	- 16	4.7	9	-					

North Genesee Build (2020) Timing Plan: PM

		22

ATTACHMENT D

Level of Service Analysis

Signalized Genesee Street/I-790/Thruway Ramp



	4	×	1	J C7	K	₹	7	1	74	4	K	*
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		4		7	3		- 1	11	7	7	十十	7
Traffic Volume (veh/h)	27	0	49	289	0	31	34	537	158	105	913	53
Future Volume (veh/h)	27	0	49	289	0	31	34	537	158	105	913	53
Number	3	- 8	18	7	4	14	5	2	12	1	6	16
Initial Q (Qb), veh	Ò	Ö	0	0	0	Ö	Ö	0	Ó	0	0	Ó
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h	30	0	54	311	0	33	37	590	174	119	1038	60
Adj No. of Lanes	0	1	0	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.90	0.90	0.90	0.93	0.93	0.93	0.91	0.91	0.91	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	183	30	258	471	0	414	209	1001	448	337	1119	500
Arrive On Green	0.26	0.00	0.26	0.26	0.00	0.26	0 04	0.28	0.28	0.15	0.63	0.63
Sat Flow, veh/h	432	115	986	1345	Ö	1583	1774	3539	1583	1774	3539	1583
Grp Volume(v), veh/h	84	0	0	311	Ò	33	37	590	174	119	1038	60
Grp Sat Flow(s),veh/h/ln	1533	0	0	1345	0	1583	1774	1770	1583	1774	1770	1583
Q Serve(g_s), s	0.0	0.0	0.0	11.7	0.0	1.1	1.0	10.0	6.2	3.2	18.3	11
Cycle Q Clear(g_c), s	2.7	0.0	0.0	14.4	0.0	1.1	1.0	10.0	6.2	3.2	18.3	1.1
Prop In Lane	0.36		0.64	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	471	.0.	0	471	0	414	209	1001	448	337	1119	500
V/C Ratio(X)	0 18	0.00	0.00	0.66	0.00	0.08	0.18	0.59	0.39	0.35	0.93	0.12
Avail Cap(c_a), veh/h	657	0	0	638	0	611	283	1112	498	352	1119	500
HCM Platoon Ratio	1.00	1.00	1 00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	0.80	0.80	0.80
Unitom Delay (d), s/veh	20.1	0.0	0.0	24.1	0.0	19.5	18.2	21.6	20.2	14.8	12.2	9.0
Incr Delay (d2), s/veh	0.3	0.0	0.0	2.3	0.0	0.1	0.1	0.7	0.6	0.2	12.1	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.3	0.0	0.0	5.9	0.0	0.5	0.5	5.0	2.8	1.5	10.2	0.5
LnGrp Delay(d),s/veh	20.4	0.0	0.0	26.3	0.0	19,6	18.3	223	20.8	15.0	24.2	9.4
LnGrp LOS	C	0,0	0.0	C	310	В	В	C	C	В	Č	À
Approach Vol. vehih		84			344		-	801			1217	
Approach Delay, s/veh		20.4			25.7			21.8			22.6	
Approach LOS		20.4 G			23.7 C			Z1.0	-11		, C	
											. 🔀	
Timer	. 1	2	3	4	5	- 6	70	8				
Assigned Phs	1	2		4	5	6		ô				
Phs Duration (G+Y+Rc), s	10.4	24.8		23.3	8.1	27.1		23.3				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0		5.0				
Max Green Setting (Grnax), s	6.0	22.0		27.0	6.0	22.0		27.0				
Max Q Clear Time (g_c+l1), s	5.2	12.0		16.4	3.0	20.3		4.7				
Green Ext Time (p_c), s	0.0	7.8		1.9	0.0	1.6		2.6				
Intersection Summary					100			100		10.00		
HCM 2010 Ctrl Delay			22.7									
HCM 2010 LOS			C									

3: Genesee St & Harbour Point Rd

Intersection											1 1 21	- Table 1		
Int Delay, s/veh	0.1													
Movement	SEL	SET	SER		NWL	NWT	NWR.		NEL	NET	NER	SWL	SWE	SWE
Traffic Vol, veh/h	0	0	10		0	0	5		Ō	612	5	Ü	1056	20
Future Vol., veh/h	0	0	10		Ö	0	5		0	612	5	0	1056	26
Conflicting Peds, #/hr	0	0	0		0	0	0		0	0	0	Ŏ	0	
Sign Control	Stop	Stop	Stop		Stop	Stop	Stop		Free	Free	Free	Free	Free	Free
RT Channelized		- 4	Stop		-	-1.5	Stop		_		None	1100	1100	None
Storage Length	-	-	0		_	_	0							(IOIIC
Veh in Median Storage, #		0			2	0	100		1220	0	- 21		0	
Grade, %		0			1	Ö	_			Ö	-		0	
Peak Hour Factor	92	92	92		92	92	92		92	92	92	92	92	92
Heavy Vehicles, %	2	2	2		2	2	2		2	2	2	2	2	2
Mvmt Flow	0	0	<u>11</u>		Ō	0	5		0	665	5	Ó	1148	28
Major/Minor	Minor2				Minort:	_			S//E	_		ADDRESS:	_	_
Conflicting Flow All		1022	EOO			4044	225		ajor1	_		Major2		
	1495	1833	588		1242	1844	335		1176	0	0	671	0	(
Stage 1	1162	1162			668	668	-			-	-		-	
Stage 2	333	671	-		574	1176	-				-			
Critical Hdwy	7.54	6.54	6.94		7.54	6.54	6.94		4.14		-	4 14		
Critical Hdwy Stg 1	6.54	5.54	-		6.54	5.54			-	-	-		-	- 1
Critical Hdwy Stg 2	6.54	5.54			6.54	5.54	- .				13		le le	
Follow-up Hdwy	3.52	4.02	3.32		3.52	4.02	3.32	,	2.22	-	-	2.22	-	- 1
Pot Cap-1 Maneuver	85	75	452	-	131	74	661	-	590	-	•	915	٠	
Stage 1	207	267			414	455	-		-	-	-	-	-	
Stage 2	654	453	- 8		471	263	-		=		7		-	
Platoon blocked, %	311	. ,			,					-	-		-	-
Mov Cap-1 Maneuver	84	75	452		128	74	661		590	-	-	915	-	
Mov Cap-2 Maneuver	84	75	-		128	74	-		-	-	-	-	-	
Stage 1	207	267			414	455	576		-	-		-		-
Stage 2	649	453			460	263				-		_		
Approad	SE		475		NW		100		NE		2000	SW	W-	
HCM Control Delay, s	13.2				10.5				0			0		
HCM LOS	В				В									
Minor Lane/Major Mymt	NEL	NET	NER	Wint	SELn1	SWL	SWT	SWR						
Capacity (veh/h)	590	-	CONTRACTOR OF THE PARTY OF THE	661	452	915	SJAN							
HCM Lane V/C Ratio	-	_		0.008		010	_	T.i.						
HCM Control Delay (s)	0		-	1 4 2 1 1	13.2	0								
HCM Lane LOS	Ā	-		В	13.2 B	A	-							
HCM 95th %tile Q(veh)	6		-	0	0.1	0	-							
TOTAL TOTAL STATE OF THE STATE	,	- 5	- 3	U	J.1	V								

Intersection						5 57						14.	
Int Delay, s/veh	0.5												
Movement	SEL	SET	SER		NWL	NWT	NWR	NEU	NET	NER	SWL	SWT	SWR
Fraffic Vol. veh/h	0	0	21		0	0	27	25	701	30	0	1175	76
Future Vol. veh/h	Ô	Ô	21		Ó	0	27	25	701	30	0	1175	76
Conflicting Peds, #/hr	0	0	0		0	0	0	0	0	Ö	0	0	0
Sign Control	Stop	Stop	Stop		Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-		Stop				Stop			Free			None
Storage Length	-	_	0		- 0	-	0	160	-	-	-	-	0
Veh in Median Storage, #		0	-		- 2	0		- 84	0	_	-	0	
Grade, %	_	Ö	-			0	-	-	Õ	-	-	Ô	-
Peak Hour Factor	92	92	92		92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2		2	2	2	2	2	2	2	2	2
Mymt Flow	0	0	23		0	D	29	27	762	33	Ô	1277	83
Major/Minor	Minor2			- 3	Minor1			Majort			Major2	100	
Conflicting Flow All	1636	2093	639		1455	2093	381	1277	0		762	0	Ö
Stage 1	1277	1277	000		816	816	-	1271				Ī	
Stage 2	359	816	- 2		639	1277	. 2	70		-			_
Critical Howy	6.99	6.54	6.94		6.99	6.54	7:14	4.14			5.34		
Critical Hdwy Stg 1	6.54	5.54	0.01		7.34	5.54	4.04.3						
Critical Howy Stg 2	6.74	5.54	-		6.54	5.54	<u>*</u>		-				
Follow-up Hdwy	3.67	4.02	3.32		3.67	4.02	3.92	2.22	-	_	3.12	_	
Pot Cap-1 Maneuver	84	52	419		112	52	527	540	-	0	509	7	
Stage 1	172	236	- 10		274	389	11984			0	310		
Stage 2	598	389	4		418	236	-		- 1	Ö			, i
Platoon blocked, %	0,00					When!		575	2.		· ·	_	
Mov Cap-1 Maneuver	76	49	419		102	49	527	540	_		509		8
Mov Cap-2 Maneuver	76	49	- 110		102	49				-	-		
Stage 1	163	236			260	370		-	-		÷	_ 3	3
Stage 2	536	370	-		395	236	-	-	-	-	-	-	- 2
Approach	SE				NW	1000		NE			SW		
inCM Control Delay, s	14.3	_		_	12.2			0.4			O		
HCM LOS	175.4 B				В								
Minor Lane/Major Mymt	NEL	NET	IVVLn1	SFI n1	SWL	SWT	SWR						
	540	of the day	-	419	509								
Capacity (ver/n) HCM Lane V/C Ratio	0.05			0.054									
HCM Control Delay (s)	12		12.2	14.1	0								
HCM Lane LOS	B		12.2 B	В	Ā	_							
HCM 95th %tile Q(veh)	0.2		0.2	0.2	8		-		-				
HEALT SHOT WHEN THE WASH	0.2		5.2	UZ	y								

	4	×	7	F	K	₹	7	1	74	Ĺ	K	1/2
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		र्भ	7		4		7	ተ Ъ		ħ	41	
Traffic Volume (veh/h)	33	0	60	10	0	10	36	532	26	15	1001	56
Future Volume (veh/h)	33	0	60	10	0	10	36	532	26	15	1001	56
Number	7	4	14	3	8	18	1	6	16	5	2	12
Initial Q (Qb), veh	0	0	0	0	Ō	0	0	0	0	0	0	(
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1863	1900	1863	1900	1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h	36	0	65	11	0	11	39	578	28	16	1088	61
Adj No. of Lanes	0	1	1	0	1	0	1	2	- 0	1	2	C
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	426	0	362	222	24	169	413	1862	90	494	1795	101
Arrive On Green	0.23	0.00	0.23	0.23	0.00	0.23	0.03	0.54	0.54	0.03	1.00	1.00
Sat Flow, veh/h	1414	0	1583	633	107	740	1774	3437	166	1774	3408	191
Grp Volume(v), veh/h	36	0	65	22	0	0	39	297	309	16	565	584
Grp Sat Flow(s), veh/h/ln	1414	0	1583	1479	0	0	1774	1770	1833	1774		
Q Serve(g_s), s	0.5	0.0	2.3	0.0	0.0	0.0	0.7				1770	1829
Cycle Q Clear(g_c), s	1.2	0.0	2.3	0.7	0.0	0.0		6.5	6.5	0.3	0.0	0.0
Prop In Lane	1.00	0.0	1 00		0.0		0.7	6.5	6.5	0.3	0.0	0.0
Lane Grp Cap(c), veh/h	426	0	362	0.50		0.50	1.00	050	0.09	1.00		0.10
V/C Ratio(X)	0.08	0 00		415	0	0	413	959	993	494	932	963
the state of the s		0.00	0.18	0.05	0.00	0.00	0.09	0.31	0.31	0.03	0.61	0.61
Avail Cap(c_a), veh/h HCM Platoon Ratio	426	100	362	415	0	0	461	959	993	568	932	963
and the second s	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1 00	1 00	2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	0.00	0.92	0.92	0.92	1.00	1.00	1.00
Uniform Delay (d), s/veh	21.3	0.0	21.7	21,1	0.0	0,0	7.0	8.8	8.8	7.5	0.0	0.0
Incr Delay (d2), s/veh	0.4	0.0	1.1	0.2	0.0	0.0	0.1	0.8	0.8	0.0	2.9	2.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln	0.6	0.0	1.1	0.4	0.0	0.0	0.3	3.3	3.5	0.1	0.8	0.8
LnGrp Delay(d),s/veh	21 7	0.0	22 8	21.3	0.0	0.0	71	9.6	9.6	7.5	2.9	2.8
LnGrp LOS	C		С	С			Α	Α	Α	Α	Α	Α
Approach Vol, veh/h		101			22			645			1165	
Approach Delay, s/veh		22.4			21.3			9.4			2.9	
Approach LOS		С			С			Α			Α	
Timer	1	2	3	4	0	6	Te	В	101	-	-	
Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	7.1	41.9		21.0	6.1	42.9		21.0				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0		5.0				
Max Green Setting (Gmax), s	4.0	35.0		16.0	4.0	35.0		16.0				
Max Q Clear Time (g_c+l1), s	2.7	2.0		4.3	2.3	8.5		27				
Green Ext Time (p_c), s	0.0	14.7		0.3	0.0	13.3		0.3				
intersection Summary												
HCM 2010 Ctrl Delay			6.3									
HCM 2010 LOS			Α									

	4	7	7	×	K	*	
ovement	SEL	SER	NEL	NET	SWT	SWR	
Lane Configurations	*	7		个 个	44		
Traffic Volume (veh/h)	26	524	0	617	559	73	
Future Volume (veh/h)	26	524	0	617	559	73	
Number	1	16	7	4	8	18	
Initial Q (Qb), veh	0	0	0	0	Ö	0	
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln	1863	1863	0.00	1863	1863	1900	
Adj Flow Rate, veh/h	28		e ,				
		0	0	671	608	79	
Adj No. of Lanes	1	1	0	2	2	0	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	
Percent Heavy Veh, %	2	2	0	2	2	2	
f . Car a c	1014	905	0	1112	990	128	
Arrive On Green	0.57	0.00	0.00	0.63	0.31	0.31	
Sat Flow, veh/h	1774	1583	0	3725	3245	409	
Grp Volume(v), veh/h	28	0	0	671	341	346	
Grp Sat Flow(s), veh/h/ln	1774	1583	Ó	1770	1770	1791	
Q Serve(q_s), s	0.5	0.0	0.0	7.9	11.5	11.5	
Cycle Q Clear(g_c), s	0.5	0.0	0.0	7.9	11.5	11.5	
Prop In Lane	1.00	1.00	0.00	7.0	11.0	0.23	
Lane Grp Cap(c), veh/h		905	0	1112	556	563	
	0.03	0.00	0.00	0.60	0.61		
	1014	905				0.62	
			0	1112	556	563	
	1.00	1.00	1 00	200	1.00	1.00	
Upstream Filter(I)	1.00	0.00	0.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh		0.0	0.0	10.4	20.4	20.4	
Incr Delay (d2), s/veh	0.1	0.0	0.0	2.4	5.0	5.0	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	00	
%ile BackOfQ(50%),veh.	/10.2	0.0	0.0	4.1	6.4	6.4	
LnGrp Delay(d),s/veh	6.6	0.0	0.0	12.8	25.4	25.4	
LnGrp LOS	Ā			В	C	Ĉ	
Approach Vol. veh/h	28		Г	671	687		
Approach Delay, s/veh	6.6			12.8	25.4		
Approach LOS	A			12.0 B			
	M			Ď	C		
of .	1	2	3	4	5	6	
Assigned Phs	W.			4		6	
Phs Duration (G+Y+Rc),	S			26.0		44.0	
Change Penod (Y+Rc), s				4.0		4.0	
Max Green Setting (Gma	x) s			22.0		40.0	
Max Q Clear Time (g_c+	11) e			9.9		2.5	
Green Ext Time (p_c), s	41, 3			6.6		0.1	
				0.0		U. I	
ntersection Summary							
1014 0040 Ot D. I.			18.9				
ICM 2010 Ctrl Delay							

North Genesee Build (2020)_2 Timing Plan: AM

	4	¥	7	A	K	ť	Ť	×	74	4	K	12
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWF
Lane Configurations		4		7	Po		7	44	7	Y	个 个	7
Traffic Volume (veh/h)	93	5	83	294	0	68	92	962	231	95	900	83
Future Volume (veh/h)	93	5	83	294	Ö	68	92	962	231	95	900	83
Number	3	8	18	7	4	14	5	2	12	1	6	16
Initial Q (Qb), veh	0	Ó	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1 00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h	95	5	85	346	0	80	106	1106	266	99	938	86
Adj No. of Lanes	0	1	0	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.98	0.98	0.98	0.85	0.85	0.85	0.87	0.87	0.87	0.96	0.96	0.96
Percent Heavy Veh. %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	278	36	201	496	Ō	488	339	1256	562	257	1251	560
Arrive On Green	0.31	0.31	0.31	0.31	0.00	0.31	0.07	0.36	0.36	0.15	0.71	0.71
Sat Flow, veh/h	650	116	651	1301	0	1583	1774	3539	1583	1774	3539	1583
Grp Volume(v), veh/h	185	0	0	346	0	80	106	1106	266	99	938	86
Grp Sat Flow(s), veh/h/ln	1417	0	Ö	1301	Ö	1583	1774	1770	1583	1774	1770	1583
Q Serve(g_s), s	4.9	0.0	0.0	10.6	0.0	26	2.5	20.5	9.1	2.3	11.6	1.3
Cycle Q Clear(g_c), s	7.5	0.0	0.0	18.1	0.0	2.6	2.5	20.5	9.1	2.3	11.6	1.3
Prop.In Lane	0.51	0.0	0.46	1.00	0.0	1.00	1 00	20.0	1.00	1 00	11.0	1.00
Lane Grp Cap(c), veh/h	514	0	0 40	496	0	488	339	1256	562	257	1251	560
V/C Ratio(X)	0.36	0.00	0.00	0.70	0.00	0.16	0.31	0.88	0.47	0.39	0.75	0.15
Avail Cap(c_a), veh/h	564	0.00	0.00	541	0	543	358	1264	565	279	1264	565
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2,00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	0.64	0.64	0.64
Uniform Delay (d), s/veh	19.3	0.00	0.0	23.1	0.00	17.6	13.4	21.2	17.5	14.7	83	6.8
	0.6	0.0	0.0	4,1	0.0	0.2	0.2	7.4	0.6	0.2	2.7	0.4
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	1 200	6.9	0.0	1.2	1.3	11.3	4.1	1.1	5.7	0.6
%ile BackOfQ(50%),veh/ln	2.9	0.0	0.0		0.0				18.1	14.9	11.0	7.2
LnGrp Delay(d),s/veh	20 0	U.U	0.0	27,2	A	17.9	13.5	28.6		14.9 B	B	
LnGrp LOS	В	382		<u>C</u>	200	В	В	C	B	<u>D</u>		A
Approach Vol, veh/h		185			426			1478			1123	
Approach Delay, s/veh		20.0			25.4			25.6			11.1	_
Approach LOS		В			.Q			Ç			В	
Timer	- 1	2	3	4	5	. 6	7	8		18		
Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	10.1	29.9		26.6	10.2	29.7		26.6				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0		50				
Max Green Setting (Gmax), s	6.0	25.0		24.0	6.0	25.0		24.0				
Max Q Clear Time (g_c+11), s	4.3	22 5		20.1	4.5	13.6		9.5				
Green Ext Time (p_c), s	0.0	2.3		1.5	0.0	9.9		3.6				
Intersection Summary												
HCM 2010 Ctrl Delay			20.2									
HCM 2010 LOS			C									

North Genesee Build (2020)_2 Timing Plan: Mid Day

Intersection	170	-					-	W. T.				200		
THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	0.2				_	_				*****	***			
Movement	SEL	SET	SER		NWL	NWT	NWR		NEL	NET	NER	NA/D:	CONT	DUND
Traffic Vol, veh/h	0	0	15		0	0	15	-	0	1094	26	SWL	SWI	SW
Future Vol, veh/h	0	0	15		0	0	15		0	1094	26	0	983 983	15 15
Conflicting Peds, #/hr	0	Ö	0		0	0	0		0	0	0	0	903	0
Sign Control	Stop	Stop	Stop		Stop	Stop	Stop		Free	Free	Free	Free	Free	Free
RT Channelized	Olop	Clop	Stop		Olop	Olop	Stop		1166	rice	None	riee	LIEE	None
Storage Length	-		0		2	_	Olop				HORE	-	•	NUNE
Veh in Median Storage, #		0	72		- 2	0			-	0			0	
Grade, %	-	0	-		- 2	Ö				0		120	0	
Peak Hour Factor	92	92	92		92	92	92		92	92	92	92	92	92
Heavy Vehicles, %	2	2	2		2	2	2		2	2	2	2	2	2
Mymt Flow	0	Ō	16		0	0	16		0	1189	28	0	1068	16
														,,
Major/Minor	Mirror2			_ N	Mnort:			M	071			Major2		
Conflicting Flow All	1672	2294	542		1737	2288	609	-	1085	0	0	1217	0	0
Stage 1	1077	1077	11-		1203	1203	_			-			P	
Stage 2	595	1217	-		534	1085	-			-				-
Critical Hdwy	7.54	6.54	6.94		7.54	6.54	6.94		4.14			4.14		
Critical Hdwy Stg 1	6.54	5.54	-		6.54	5.54	100			-		-		_
Critical Hdwy Stg 2	6.54	5.54			6.54	5.54	05		-	-				
Follow-up Hdwy	3.52	4.02	3.32		3.52	4.02	3.32		2.22	-	-	2.22		
Pot Cap-1 Maneuver	63	39	485		56	39	438		639	-		569		
Stage 1	234	293	-		196	256	-		_				-	
Stage 2	458	252			498	291	-		54		4		7.5	
Platoon blocked, %											-			-
Mov Cap-1 Maneuver	61	39	485		54	39	438		639			569		
Mov Cap-2 Maneuver	61	39	-		54	39				Ş	_	-		
Stage 1	234	293	-		196	256	1123		100	- 6				
Stage 2	441	252			481	291	-			- 2	-	- 5		-
Austrophile	ar.		_		AMAG				Ca laboration			THE STATE OF THE S		
Approach	SE				NW.				NE			SW		
HCM Control Delay, s	12.7				13.5				0			0		
HCM LOS	В				В									
Minor Lane/Major Mymt	NEU	NET	NERA	WLn1S	El pa	SWL	SWT	SWR			_			
Capacity (veh/h)	639				-									
HCM Lane V/C Ratio		12.	- 3		485	569	7.	**						
	n	120		0.037		-	-							
HCM Control Delay (s) HCM Lane LOS	0	- 1		13.5	12.7	0	7.	-						
HCM 95th %tile Q(veh)	Α 0	-	3	В	В	A	3.0							
LION SOUL WIRE (MACH)	, U	-		0.1	0.1	0	920	-						

250			1000		400		3-53	- 10	-	Mary or	100	
0.7												
SEL	SET	SER		NWL	NWT	NWR	NEL	NET	NER	SWL.	SWT	SWR
0		46		0	0	58	13	1227	24	0	1219	58
	14	2 2 3			Ô	to be man 1				Õ		58
					0	0	0		0	0	0	0
						Stop	Free		Free	Free	Free	Free
	-			-				-				None
- 14		0		-	-		160	-	-		-	0
ŧ .	0	10			0		-	0	-	7	0	mi.
- 14					**	-	-		-		0	-
92		92		92		92	92		92	92	92	92
		2.77		1,4	2.80		2	2	2	2	2	2
0	0	50		0	0	63	14	1334	26	0	1325	63
Minor2				diner1			Major1			Major2		
1887	2687	663			2687	667		0		1334	0	0
		***					*		110-11	-		
1 11 41		-				-	*	-	-	-	-	
		6.94				7.14	4.14	-	-	5.34		
					4		- 2	-	-	-		24
							F 15	- 5		-		- 64
77.1	and the second		. —			3.92	2.22	-	-		-	- 4
								_	0		-	
	42- 41-				11. man.		. 729	10.	Ò			
		12				Ξ.	-	-	0	-		- 1
								:				-
46	20	404		39	20	344	517	-		269	-	9
.4227			. —		20		-	:	-	En whe.	-	-
		1					4	÷		7	-	
358	208	-		355	223	-	-	141	- 27		e.	-
SE				NW		-	NE	100		SW	000	
15.2				17.8			0.1			0		
C				C								
NEL	NETN	WLn1	SELn1	SWL	SWT	SWR						
517	-	344	404	269	-				مسين			
				- 7.7.5	_							
				0								
the second second	-		and the same of th		-	-						
0.1	230	0.7	0,4	0	4							
	SEL 0 0 0 0 Stop 4 92 2 0 Minor2 1887 1325 562 6 99 6.54 6.74 3.67 57 161 450 46 46 157 358 SE 15.2 C	SEL SET 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SEL SET SER 0 0 46 0 0 46 0 0 0 0 Stop Stop Stop Stop 0 - 0 - 92 92 92 2 2 2 2 0 0 50 Minor2 1887 2687 663 1325 1325 562 1362 6 99 6.54 6 94 6.54 5.54 6.74 5.54 3.67 4.02 3.32 57 21 404 161 223 - 450 214 - 46 20 404 46 20 - 157 223 358 208 SEE 15.2 C NEL NETRWL11 517 - 344 0.027 - 0.183 12.2 - 17.8 B - C	SEL SET SER 0 0 46 0 0 0 46 0 0 0 0 Stop Stop Stop - Stop - O - 92 92 92 2 2 2 2 0 0 50 Minor2 1887 2687 663 1325 1325 - 562 1362 - 562 1362 - 562 1362 - 6.99 6.54 6.94 6.54 5.54 - 3.67 4.02 3.32 57 21 404 161 223 - 450 214 46 20 404 46 20 - 157 223 - 358 208 - SE 15.2 C NEL NETNWLn1 SELn1 517 - 344 404 0.027 - 0.183 0.124 12.2 - 17.8 15.2 B - C C	SEL SET SER NWL NWT NWR NEL NET NER SWL	SEL SET SER						

	W	×	1	A	K	*	7	1	4	Ĺ	K	1
Novement	SEL	SET	SER	NWL	NWT	NWE	MEL	NET	NER	SWL	SWT	SWR
Lane Configurations		4	7		4		14	1		*	41	
Traffic Volume (veh/h)	213	Ö	185	5	0	5	195	892	37	15	887	175
Future Volume (veh/h)	213	Ó	185	5	0	5	195	892	37	15	887	175
Number	7	4	14	3	8	18	1	6	16	5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	Ó	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1863	1900	1863	1900	1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h	232	0	201	5	0	5	212	970	40	16	964	190
Adj No of Lanes	0	1	1	0	1	0	1	2	0	1	2	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	340	ō	385	80	24	28	438	1828	75	321	1345	265
Arrive On Green	0.24	0.00	0.24	0.24	0.00	0.24	0.09	0.53	0.53	0.03	0.91	0.91
Sat Flow, veh/h	976	0	1583	13	100	114	1774	3464	143	1774	2949	581
Grp Volume(v), veh/h	232	0	201	10	0	0	212	495	515	16	578	576
Grp Sat Flow(s), veh/h/ln	976	0	1583	228	0	0	1774	1770	1838	1774	1770	1760
Q Serve(g_s), s	0.0	0.0	7.7	01	0.0	0.0	41	12.9	12.9	0.3		
Cycle Q Clear(g_c), s	16.7	0.0	7.7	16.8	0.0	0.0	4.1				5.8	5.8
Prop In Lane	1.00	0.0	1.00	0.50	0.0	0.50		12.9	12.9	0.3	5.8	5.8
Lane Grp Cap(c), veh/h	340	0	385	132	0		1.00	024	0.08	1,00	007	0.33
V/C Ratio(X)	0.68				0.00	0	438	934	969	321	807	803
Avail Cap(c_a), veh/h	340	0.00	0.52	0.08	0.00	0.00	0.48	0.53	0.53	0.05	0.72	0 72
HCM Platoon Ratio	1.00	1 00	385	132	0	0	486	934	969	395	807	803
			1.00	1.00	1.00	1.00	1.00	1.00	1 00	2 00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	0.00	0.55	0.55	0.55	1.00	1.00	1.00
Uniform Delay (d), s/veh	26.4	0.0	23.0	21.7	0.0	0.0	8 1	10.8	10.8	10.2	19	1.9
Incr Delay (d2), s/veh	10.6	0.0	5.0	1.1	0.0	0.0	0.5	1.2	1.2	0.1	5.4	5.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.4	0.0	3.9	0.2	0.0	0.0	1.9	6.5	6.7	0.2	3.5	3.5
LnGrp Delay(d),s/veh	37.0	0.0	28.0	22.8	0.0	0.0	8.5	12.0	12 0	10.2	7.3	7.4
LnGrp LOS	D		С	С			Α	В	B	В	Α	A
Approach Vol, veh/h		433			10			1222			1170	
Approach Delay, s/veh		32.8			22.8			11.4			7.4	
Approach LOS		С	-		C			В		-	Α	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs	1	2		4	5	6		8	-10			
Phs Duration (G+Y+Rc), s	11.1	36.9		22.0	6.1	41.9		22.0				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0		5.0				
Max Green Setting (Gmax), s	8.0	30.0		17.0	4.0	34.0		17.0				
Max Q Clear Time (g_c+l1), s	6.1	7.8		18.7	2.3	14.9		18.8				
Green Ext Time (p_c), s	0.1	15.0		0.0	0.0	13.5		0.0				
Intersection Summary											777	
HCM 2010 Ctrl Delay			13.1									-
HCM 2010 LOS			В									

North Genesee Build (2020)_2 Timing Plan: Mid Day

	٧.	1	7	A	K	100			<u></u> .
in the term of	SEL	SER	NEL	NET	SWT	SWR			
Lane Configurations	ħ	7		44	41				
Traffic Volume (veh/h)	21	350	0		649	42			
Future Volume (veh/h)	21	350	0	A VW .	649	42			
Number	1	16	7	4	8	18			
Initial Q (Qb), veh	0	0	0	0	Ó	0			
Ped-Bike Adj(A_pbT)	1 00	1.00	1.00			1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00			
Adj Sat Flow, veh/h/ln	1863	1863	0	1863	1863	1900	-		
Adj Flow Rate, veh/h	23	0	Ö	1207	705	46			
Adj No of Lanes	1	1	0	2	2	0			
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92			
Percent Heavy Veh, %	2	2	0.92	2	2	2			
Cap, veh/h	659	588	Ö	1820	1735	113			
Arrive On Green	0.37	0.00							
	1 177 4		0.00	1.00	0.51	0.51			
Sat Flow, veh/h	1774	1583	0	3725	3467	220			_
Grp Volume(v), veh/h	23	0	0	1207	370	381			
Grp Sat Flow(s), veh/h/lr		1583	0	1770	1770	1824			
Q Serve(g_s), s	0.6	0.0	0.0	0.0	9.0	90			
Cycle Q Clear(g_c), s	0.6	0.0	0.0	0.0	9.0	9.0			
Prop In Lane	1.00	1.00	0.00			0.12			
Lane Grp Cap(c), veh/h		588	0	1820	910	938			
V/C Ratio(X)	0.03	0.00	0.00	0.66	0.41	0.41			
Avail Cap(c_a), veh/h	659	588	0	1820	910	938			
HCM Platoon Ratio	1.00	1.00	1.00	2.00	1.00	1.00			
Upstream Filter(I)	1.00	0.00	0.00	1.00	1.00	1.00			
Uniform Delay (d), s/veh		0.0	0.0	0.0	104	10.4			
Incr Delay (d2), s/veh	0.1	0.0	0.0	1.9	1.3	1.3			
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh		0.0	0.0	0.5	4.7	4.8			
	14.1	0.0	0.0	1.9	11.8	11.7			
LnGrp LOS	В			A	B	B			
Approach Vol, veh/h	23			1207	751				
the total and the second and the second seco	14.1			1.9	11.8				
Approach LOS	B			A	B				
Mindai roo				· C					
er	3	2	3	4	5	6	7 7	8	
Assigned Phs				4		6		8	
Phs Duration (G+Y+Rc),	S			40.0		30.0	40.0	Sec.	
Change Period (Y+Rc), s	3			4.0		4.0	4.0		
Max Green Setting (Grna	ex), s			36.0		26.0	36.0		
Max Q Clear Time (g_c+	11), s			2.0		26	11.0		
Green Ext Time (p_c), s	73 .T			18.3		0.0	15.3		
ection Summary	3.74		I Fe		-	H			
HCM 2010 Ctrl Delay			5.8						
HCM 2010 LOS			A						
1010 2010 200									

	4	¥	1	×	K	ť	ን	1	774	4	K	10
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWF
Lane Configurations		4		7	1		7	- 44	7	7	^	1
Traffic Volume (veh/h)	58	0	44	200	0	194	98	1192	210	68	837	67
Future Volume (veh/h)	58	0	44	200	0	194	98	1192	210	68	837	67
Number	3	8	18	7	4	14	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	Õ	0	0	0	(
Ped-Bike Adj(A_pbT)	1.00		1 00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h	62	0	47	250	0	242	105	1282	226	72	890	71
Ad No. of Lanes	0	1	0	1	1	Ö	1	2	1	1	2	1
Peak Hour Factor	0.94	0.94	0.94	0.80	0.80	0.80	0.93	0.93	0.93	0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	163	21	78	393	Ô	392	439	1540	689	257	1505	673
Arrive On Green	0.25	0.00	0.25	0.25	0.00	0.25	0.07	0.44	0.44	0.13	0.85	0.85
Sat Flow, veh/h	331	86	316	1353	0	1583	1774	3539	1583	1774	3539	1583
Grp Volume(v), veh/h	109	Ö	0	250	0	242	105	1282	226	72	890	71
Grp Sat Flow(s),veh/h/ln	734	0	0	1353	0	1583	1774	1770	1583	1774	1770	1583
Q Serve(g_s), s	3.5	0.0	0.0	1.8	0.0	9.5	2.2	22.5	6.6	1.5	5.3	0.5
Cycle Q Clear(g_c), s	13.0	0.0	0.0	14.8	0.0	9.5	2.2	22.5	6.6	1.5	5.3	0.5
Prop In Lane	0.57		0.43	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	262	Ò	Ô	393	Ö	392	439	1540	689	257	1505	673
V/C Ratio(X)	0.42	0.00	0.00	0.64	0.00	0,62	0.24	0.83	0.33	0.28	0.59	0.11
Avail Cap(c_a), veh/h	275	0.00	0	406	0.55	407	458	1567	701	294	1567	701
HCM Platoon Ratio	1 00	1.00	1.00	1.00	1.00	1.00	1.00	1,00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	0.74	0.74	0.74
Uniform Delay (d), s/veh	25 6	0.0	0.0	25.5	0.0	23.4	96	17.5	13.0	12.7	3.4	3.1
Incr Delay (d2), s/veh	1.5	0.0	0.0	3.7	0.0	3.2	0.1	3.9	0.3	0.2	1.3	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.1	0.0	0.0	5.1	0.0	4.5	1.1	11.7	2.9	0.7	2.5	0.2
LnGrp Delay(d),s/veh	27.1	0.0	Õ.D	29.2	0.0	26.6	9.7	215	13.3	12.9	4.7	3.3
LnGrp LOS	C		2.0	C	20	C	Ā	Č	В	В	A	A
Approach Vol., veh/h		109			492		,,	1613		20 1	1033	
Approach Delay, s/veh		27.1			27.9			19.5			5.2	
Approach LQS		C			27.3 C			8			Ą	
Annual Control of the			-	- 4		14471	-			_	. 5.	
Timer	- 0	- 2	3	4	5	6	- 1	8	_	_		
Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	9.5	35.5		22.3	10.2	34.8		22.3				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0		5.0				
Max Green Setting (Gmax), s	6.0	31.0		18.0	6.0	31.0		18.0				
Max Q Clear Time (g_c+l1), s	3.5	24.5		16.8	4.2	7.3		15.0				
Green Ext Time (p_c), s	0.0	6.0		0.5	0.0	19.1		1.2				
Intersection Summary		96.4		-					-			
HCM 2010 Ctrl Delay			16.5									
HCM 2010 LOS			B									

North Genesee Build (2020)_2 Timing Plan: PM

Intersection	1 24			-							100			
Int Delay, s/veh	0.2													
Movement	SEL	SET	SER		NWL	NWT	NWR		NEL	NET	NER	SWL	SWT	SWF
Traffic Vol. veh/h	0	0	10	_	0		10	-	0	1268	21	5	913	15
Future Vol., veh/h	0	0	10		0	0	10		0	1268	21	5	913	15
Conflicting Peds, #/hr	Ö	_	Ō		0		. 0		Ö	0	0	0	0	(
Sign Control	Stop	Stop	Stop		Stop		Stop		Free	Free	Free	Free	Free	Free
RT Channelized	- /#	-	Stop		Clop		Stop		1100	-	None	1100	-	None
Storage Length		-	0.00		4		0				HONE		_	INONE
Veh in Median Storage, #		0	-		2		-			0			0	
Grade, %	54	0			12	_				0			0	
Peak Hour Factor	92	92	92		92		92		92	92	92	92	92	92
Heavy Vehicles, %	2	2	2		2		2		2	2	2	2	2	2
Mymt Flow	0	Ō	11		0		11		0	1378	23	5	992	16
	•				•		•		•	1010	20	 	VUZ	100
Wajor/Winer	Minor2	Dill	- 0	1	Minor		- 4	1	Aajor1			Major2		
Conflicting Flow All	1700	2412	504		1897	2410	701		1009	0	0	1401	0	0
Stage 1	1011	1011			1390	1390			1000			1401	-	
Stage 2	689	1401	-		507	1020	-		12	- 0				
Critical Hdwy	7.54	6.54	6.94		7.54	6.54	6.94		4.14	_		4.14		
Critical Hdwy Stg 1	6.54	5.54			6.54	5.54	-				-	-		
Critical Hdwy Stg 2	6.54	5.54			6.54	5.54	_			_		Line		
Follow-up Hdwy	3.52	4.02	3.32		3.52	4.02	3.32		2.22	_	_	2.22		_
Pot Cap-1 Maneuver	60	32	513		42	32	381		683			484	-	
Stage 1	257	315	_		150	208				0			-	
Stage 2	402	205	1		516	312	12		16	2				
Platoon blocked, %										- 12	-			
Mov Cap-1 Maneuver	57	31	513		40	31	381		683	E		484		
Mov Cap-2 Maneuver	57	31	-		40	31			-	_	-	-	1.00	
Stage 1	257	307			150	208						-		
Stage 2	391	205	-		493	305	2		14	- 2	-	- 4	_	_
Approach	SE	-			NW				NE		2371	SW		== /2
HCM Control Delay, s	12.2				14.7				0			0.2		
HCM LOS	В				В									
Minor Lane/Major Mymt	NEL	NET	NER	WLn1	SELn1	SWL	SWT	SWR				Contract of		
Capacity (veh/h)	683	2.70			513	484	CONTRACT	STATE						-
HCM Lane V/C Ratio	-	0.00		0.029			-							
HCM Control Delay (s)	0	-		14.7	12.2	12.5	0.1	-						
HCM Lane LOS	A			В	В	В	A	-						
HCM 95th %tile Q(veh)	0				0.1	0								
LICHT SOUL WHIE MACH	U	-		U. I	0,1	U	- 1 -							

Intersection	- CON .		- 70				2000			-	9	_	
Int Delay, s/veh	1.3												
Movement	SEL	SET	SER		NWL	NWT	NWR	NEL.	NET	NER	SWL	SWT	SWR
Traffic Vol, yeh/h	0	0	78		0	0	85	33	1415	38	0	1028	53
Future Vol, veh/h	Ó		78		0	0	85	33	1415	38	0	1028	53
Conflicting Peds, #/hr	0	0	0		0	Ö	0	0	Ò	0	0	0	0
Sign Control	Stop	Stop	Stop		Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-						0.	-		Free	(G)		None
Storage Length			Ö		-	-	Ô	160	¥	-	_	-	0
Veh in Median Storage, #	= =	0			-	0		- F	0	-		0	
Grade, %	9	0	-		-	0	-	43	0		-	0	
Peak Hour Factor	92	92	92		92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2		2	2	241.5	2	2	2	2	2	2
Mymt Flow	.0	0	85		0	0	92	36	1538	41	0	1117	58
Major/Minor	Minor2				Minor1			Major1			MajorZ		
Conflicting Flow All	1804	2727	559		2169	2727	769	1117	0		1538	0	0
Stage 1	1117	1117	-		1610	1610	-			1	1000		, i
Stage 2	687	1610	_		559	1117			_	-	_	-	_
Critical Howy	6.99	6.54	6.94		6.99	6.54	7.14	4.14	11 21		5.34	-	
Critical Howy Stg 1	6.54	5.54	U.U.T		7.34	5.54	464.1	7-17			WIW T		
Critical Howy Stg 2	6.74	5.54			6.54	5.54							
Follow-up Hdwy	3.67	4.02	3.32		3.67	4.02	3.92	2.22	-	_	3.12	-	
Pot Cap-1 Maneuver	65	20	472		36	20	295	621	π-	Ö	213	Ę	
Stage 1	216	281	7/2		75	162	-	WZ 1	-	ő	2.10	-	
Stage 2	377	162			466	281	. ,			Ö	14	_	-
Platoon blocked, %	211	102	_		עעד				. 5			1.	
Mov Cap-1 Maneuver	43	19	472		28	19	295	621		-	213	-	
Mov Cap-1 Maneuver	43	19	712		28	19	200	VZ1	Ţ		410	_	
Stage 1	203	281	-		71	153		100	-		-		
Stage 2	244	153			382	281		7.0	7	= 7			
Stage 2	244	100			302	201				عثب			
Approach	SE			The state of	NW		4011	NE		4	SW	DL	
nÇiri Control Delay, s	14.3				22.7			0.3			0		
HCM LOS	В				С								
Minor Lane/Major Mymt	NEL	NETN	WLn1	SELMI	SWL	SWT	SWR	MIL 3					
Capacity (veh/h)	621	17	295	4/2	213		-						
HCM Lane V/C Ratio	0.058		0.313	0.18	-	-	-						
HCM Control Delay (s)	11.2		22.7	14.3	0	- 1	-						
HCM Lane LOS	В	-	C	В	Α	_	-						
HCM 95th %tile Q(veh)	0.2	-	1.3	0.6	0		= =						

	4	×	1	1	K	7	7	1	a	4	K	100
Hovemen	SEL	SEI	SER	NWL	TWH	NWR	NEL	NET	NER	SWL	SWI	SWR
Lane Configurations		र्ब	7		4		7	1		7	†	
Traffic Volume (veh/h)	122	5	101	10	0	5	141	1072	74	10	861	99
Future Volume (veh/h)	122	5	101	10	0	5	141	1072	74	10	861	99
Number	7	4	14	3	8	18	1	6	16	5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1863	1900	1863	1900	1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h	133	5	110	11	0	5	153	1165	80	11	936	108
Adj No of Lanes	0	1	1	0	1	0	1	2	0	1	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	425	14	362	232	16	73	478	1836	126	258	1566	181
Arrive On Green	0.23	0.23	0.23	0.23	0.00	0.23	0.07	0.55	0.55	0.02	0.98	0.98
Sat Flow, veh/h	1415	62	1583	636	69	320	1774	3361	231	1774	3198	369
Grp Volume(v), veh/h	138	0	110	16	0	0	153	613	632	11	518	526
Grp Sat Flow(s), veh/h/ln	1477	Ö	1583	1025	Ö	0	1774	1770	1822	1774	1770	1798
Q Serve(g_s), s	0.0	0.0	4.0	0.0	0.0	0.0	2.8	16.8	16.9	0.2	1.0	1.0
Cycle Q Clear(g_c), s	5.1	0.0	4.0	5.1	0.0	0.0	2.8	16.8	16.9	0.2	1.0	1.0
Prop In Lane	0.96	0.0	1.00	0.69	0.0	0.31	1.00	10.0	0.13	1.00	1.0	0.21
Lane Grp Cap(c), veh/h	439	0	362	321	0	0.51	478	966	995	258	007	880
V/C Ratio(X)	0.31	0.00	0.30	0.05	0.00	0.00	0.32	0.63	0.64	0.04	867	
Avail Cap(c_a), veh/h	439	0.00	362	321	0.00	0.00	587	966	995	340	0.60 867	0.60
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00						880
Upstream Filter(i)	1.00	0.00	1.00	1.00	0.00	0.00	1.00 0.61	1.00 0.61	1.00	2.00	200	2 00
Uniform Delay (d), s/veh	22.8	0.00	22.4	21.1	0.00	0.00	7.1		0.61	1.00	1.00	1.00
Incr Delay (d2), s/veh	1.9	0.0	2.2	0.3		100 00		11.0	11.0	9.9	0.4	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0		0.0	0.0	0.2	1.9	1.9	0.1	3.0	3.0
				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/in	2.5	0.0	2.0	0.3	0.0	0.0	1.4	8.7	9.0	0.1	1.0	1.0
LnGrp Delay(d),s/veh	24.7	0.0	24.5	21 4	0.0	0.0	7.3	13.0	12.9	10.0	3.4	3.4
LnGrp LOS	С		С	С			Α	В	В	Α	A	A
Approach Vol, veh/h		248			16			1398			1055	
Approach Delay, s/veh		24.6			21.4			12.3			3.5	
Approach LOS		С			C			В			Α	
Timer	- 1	2	3	- 4	5	6	7	8				
Assigned Phs	1	2		4	5	6		8				- 5
Phs Duration (G+Y+Rc), s	9.7	39.3		21.0	5.8	43.2		21.0				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0		5.0				
Max Green Setting (Gmax), s	9.0	30.0		16.0	4.0	35.0		16.0				
Max Q Clear Time (g_c+l1), s	4.8	3.0		7.1	2.2	18.9		7.1				
Green Ext Time (p_c), s	0.1	18.2		0.8	0.0	12.4		0.8				
Intersection Summary	3000	37 31	E-THE-	-	9215	Serie			100			
HCM 2010 Ctrl Delay			10.1									
HCM 2010 LOS			В									

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Movement	SEL	SER	NEL	NET	SWT	SWR				200	
Lane Configurations	ሻ	7		44	1						
Traffic Volume (veh/h)	53	400	0	1272	534	63					
Future Volume (veh/h)	53	400	0	1272	534	63					
Number	1	16	7	4	8	18					
Initial Q (Qb), veh	Ó	0	0	0	Ö	Ó					
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1:00					
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00					
	1863	1863	0	1863	1863	1900					
Adj Flow Rate, veh/h	58	0	0	1383	580	68					
Adj No. of Lanes	1	1	0	2	2	Ó					
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92					
Percent Heavy Veh, %	2	2	0	2	2	2					
Cap, veh/h	659	588	0	1820	1642	192					
Arrivé On Green	0.37	0.00	0.00	1.00	0.51	0.51					
17 M	1774	1583	0.00	3725	3286	374					
Grp Volume(v), veh/h	58	0	0	1383	321	327					
Grp Sat Flow(s), veh/h/ln		1583	0	1770	1770	1797					
Q Serve(g_s), s	15	0.0	0.0	0.0	7.5	7.6					
Cycle Q Clear(g_c), s	1.5	0.0	0.0	0.0	7.5	7.6					
	1.00	1.00		0.0	7.0	0.21					
Prop In Lane		588	0.00	1820	910	924					
ane Grp Cap(c), veh/h											
//C Ratio(X)	0.09	0.00	0.00	0.76	0.35	0.35					
Avail Cap(c_a), veh/h	659	588	0	1820	910	924					
ICM Plateon Ratio	1.00	1.00	1.00	2 00	1.00	1,00		17.			
Jpstream Filter(I)	1.00	0.00	0.00	1.00	1.00	1.00					
Jniform Delay (d), s/veh		0.0	0.0	0.0	10.1	10.1					
ncr Delay (d2), s/veh	0.3	0.0	0.0	3.0	1.1	1.1					
nitial Q Delay(d3),s/veh		0,0	0.0	0.0	0.0	0.0					
%ile BackOfQ(50%),veh.		0.0	0.0	8.0	3.9	4.0					
	14.6	0.0	0.0	3.0	11.2	112					
_n Grp LOS	В			Α	В	В					_
Approach Vol, veh/h	58	- 1		1383	648						
	14.6			3.0	11.2						
opproach LOS	В			A	В		- 7				
Timer	1	2	3	4	5	- 6	7 8	-	-		
Assigned Phs				4		6	8				
hs Duration (G+Y+Rc),	S			40.0		30.0	40.0				
Change Period (Y+Rc), s				4.0		4.0	4.0				
Max Green Setting (Gma				36.0		26.0	36.0				
lax Q Clear Time (g_c+				2.0		3.5	9.6				
Green Ext Time (p_c), s	79.7			19.6		0.1	16.8				
ntersection Summary											
ICM 2010 Ctrl Delay			5.9								
1CM 2010 LOS			Α		-	_					

North Genesee Build (2020)_2 Timing Plan: PM

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State Environmental Quality Review Act (SEQRA) Final Generic Environmental Impact Statement

CITY OF UTICA – HARBOR POINT REDEVELOPMENT Utica, New York

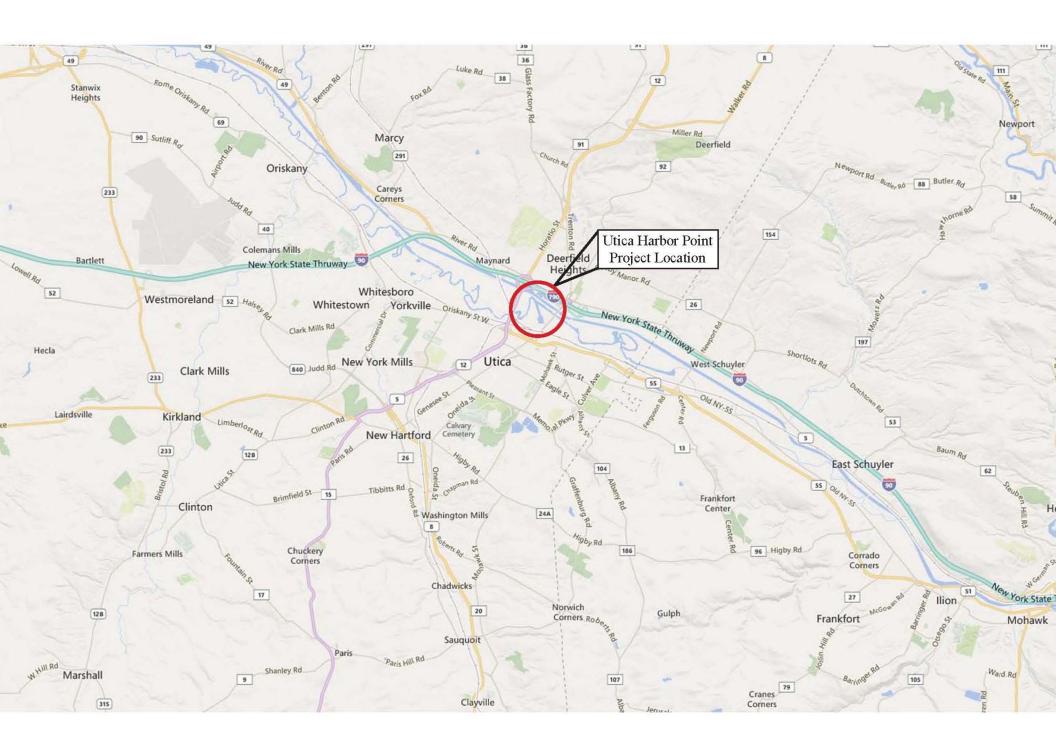
Appendix D
Notice of Completion of the DGEIS &
Notice of Hearing

14-12-9 (3/99)-9c SEQR

State Environmental Quality Review Notice of Completion of Draft and Notice of SEQR Hearing

Lead Agend	cy:	Project Number
Address:		Date
Article 8 (Sta	•	the implementing regulations pertaining to of the Environmental Conservation Law.
proposed ac	aft Environmental Impact Statement has ction described below. Comments are re	quested and will be accepted by the contact
held on	(date and time) at	A public hearing on the Draft EIS will be(place).
Name of Ac	ction:	
Description	of Action:	
Location:	(Include street address and the name appropriate scale is also recommende	of the municipality/county. A location map of d.)

SEQR Notice of Completion of Draft /Notice of Hearing	nge 2 of 2
Potential Environmental Impacts:	
A copy of the Draft / Final EIS may be obtained from:	
Contact Person:	
Address:	
Telephone Number:	
A copy of this notice must be sent to: Department of Environmental Conservation, 625 Broadway Albany, New York 12233-1750	
Chief Executive Officer, Town/City/Village of	
Any person who has requested a copy of the Draft / Final EIS	
Any other involved agencies	
Environmental Notice Bulletin 625Broadway Albany, NY 12233-1750	
Copies of the Draft EIS must be distributed according to 6NYCRR 617.12(b).	



CITY OF UTICA

Notice of Completion of a Draft Generic Environmental Impact Statement ("DGEIS"), and Notice of DGEIS Public Hearing Tuesday, September 15, 2015 at the North Utica Senior Center

PROJECT TITLE: City of Utica Harbor Point Master Plan Implementation

LEAD AGENCY: City of Utica Common Council

1 Kennedy Plaza Utica, NY 13502

INVOLVED AGENCIES:

Mohawk Valley Water Authority Mr. Richard Goodney, P.E. 1 Kennedy Plaza Utica, NY 13502

New York State Canal Corporation Mr. Joseph Moloughney, P.E. NYS Canal Corporation Exit 23 and Rt. 9W Albany, NY 12201

Oneida County Department of Health Phyllis Ellis, Director 185 Genesee Street Utica, NY 13501

New York State Department of Environmental Conservation Mr. Larry Ambeau Regional Permit Administrator NYSDEC, Region 6 317 Washington St. Watertown, NY 13601

New York State Department of Transportation Region 2 Mr. Brian Hoffmann, P.E. Regional Design Engineer Utica State Office Building 207 Genesee Street Utica, NY 13501

New York State Division for Historic Preservation
New York State Office of Parks, Recreation & Historic Preservation
Ms. Ruth Pierpont, Deputy Commissioner
Peebles Island State Park
P.O. Box 189
Waterford, NY 12188-0189

New York State Empire State Development Corporation Jane Thelen 625 Broadway Albany, New York 12207

Oneida County Department of Planning Mr. John R. Kent, Jr., Commissioner 321 Main Street Utica, NY 13501

Oneida County Soil & Water Conservation District Attn: Mr. Kevin L. Lewis, Exec. Director 121 Second Street Oriskany, New York 13424

Oneida County Department of Water Quality & Water Pollution Control Attn: Mr. Steven P. Devan, P.E. – Commissioner Post Office Box 442 Utica, New York 13503-0442

The ENB SEQRA Notice Publication Form - Please check all that apply

Deadline : Notices mu	st be received by 6 p.m	. Wednesday to appear in the	he following	Wednesday's ENB					
Negative Declar	ation - Type I	Draft EIS							
Conditioned Neg	gative Declaration	with Pul Generic	with Public Hearing Generic						
Draft Negative I		Supplen							
· ·		Final EIS	Final EIS Generic Supplemental						
Positive Declara with Public S									
DEC Region #	_ County:	Lead Agency:							
Project Title:									
Brief Project Descript	ion: The action involves	S							
Project Location (incl	ude street address/munio	cipality):							
Contact Person:									
		 City:	State	Zin:					
				_					
Phone:	Fax: _		E-mail:						
For Draft Negative De	eclaration / Draft EIS: P	Public Comment Period ends	::/	/					
		:/ / Time:							
	beoping bession. Date.	// Inne.	·•	_ ani/ pin					
Location:									
A hard copy of the DE	EIS/FEIS is available at	the following locations:							
The online version of	the DEIS/FEIS is availa	able at the following publica	ally accessible	e web site:					
For Conditioned Nega	tive Declaration: In sun	nmary, conditions include:							

CITY OF UTICA NOTICE OF INTENT TO DECLARE LEAD AGENCY

INVOLVED AGENCY: New York State Department of Environmental Conservation

Mr. Larry Ambeau

Regional Permit Administrator

NYSDEC, Region 6 317 Washington St. Watertown, NY 13601

PROJECT TITLE: Implementation of City of Utica Harbor Point Master Plan

MAILING DATE: August 14, 2014

This notification is for the purpose of designating a lead agency for the environmental review of the above titled project in accordance with the requirements of Article 8 of the New York State Environmental Conservation Law and the regulations promulgated thereunder.

PLEASE TAKE NOTICE that the Utica Common Council intends to declare Lead Agency, on behalf of the City of Utica, for environmental review of the Implementation the Utica Harbor Point Master Plan. The City has received funding through New York State Department of State to implement components of their Harbor Point Master Plan.

By resolution, the Utica Common Council has preliminarily classified the Proposed Action as a Type 1 Action. Part I of an Environmental Assessment Form (EAF) is enclosed with this notice.

A Lead Agency must be agreed to within 30 days of this notice. If no objection is received from an Involved Agency during that time period, the Utica Common Council will become the Lead Agency on behalf of the City of Utica. Objections to the designation of the Utica Common Council as the Lead Agency must be received in writing by September 13, 2014 at the following address:

Department of Urban & Economic Development Attn: Mr. Brian Thomas, Acting Commissioner Utica City Hall 1 Kennedy Plaza Utica, New York 13502

Copies with attachments sent to:

NYS Canal Corp
NYS DOS
NYS DOT
NYS ESD
NYS SHPO
Mohawk Valley Water Authority
Oneida County DOH
Oneida County Planning
Oneida County SWCD
Oneida County WQWPC