

**REPORT NO. 1 of the  
ENVIRONMENT & TRANSPORTATION STANDING COMMITTEE**  
of its meeting held May 25, 2011

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**Present:** Councillor Halberstadt  
Councillor Sleiman  
Councillor Valentinis

**Absent:** Councillor Hatfield  
Councillor Payne

That the following recommendations of the Environment and Transportation Standing Committee **BE APPROVED:**

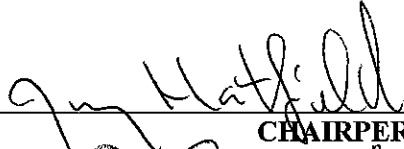
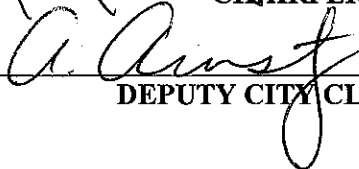
Moved by Councillor Valentinis, seconded by Councillor Sleiman,

That the report of Provincial/Division Road Drainage Study and Storm and Sanitary Sewer Functional Design, completed by AECOM, dated May 18, 2011, **BE RECEIVED** for information and

That the recommended works **BE REFERRED** to the future capital budget process and used when planning road construction as approved by the Provincial/Division Road Environmental Assessment report.

Carried.

**NOTE:** The report of the Engineer III (Acting) dated May 4, 2011 entitled "Provincial/Division Road Drainage Study and Storm and Sanitary Sewer Functional Design" is attached.

  
CHAIRPERSON  
  
DEPUTY CITY CLERK

Notification		
Engineer III (A)		
City Engineer		

**THE CORPORATION OF THE CITY OF WINDSOR**  
**Environment & Transportation Standing Committee - Administrative Report**

**MISSION STATEMENT:**

*"The City of Windsor, with the involvement of its citizens, will deliver effective and responsive municipal services, and will mobilize innovative community partnerships"*

<b>LiveLink REPORT #: 15268 SW/10242</b>	<b>Report Date: May 4, 2011</b> (#3080-05/10/11:ebr)
<b>Author's Name: Jane He</b>	<b>Date to Standing Committee: May 25, 2011</b>
<b>Author's Phone: 519 255 6257 ext. 6358</b>	<b>Classification #:</b>
<b>Author's E-mail: jhe@city.windsor.on.ca</b>	

**To: Environment & Transportation Standing Committee**

**Subject: Provincial/Division Road Drainage Study and Storm and Sanitary Sewer Functional Design**

**1. RECOMMENDATION: City Wide: Ward(s): 9**

THAT the report of Provincial/Division Road Drainage Study and Storm and Sanitary Sewer Functional Design, completed by AECOM, dated May 18, 2011, **BE RECEIVED** for information and

That the recommended works **BE REFERRED** to the future capital budget process and used when planning road construction as approved by the Provincial/Division Road Environmental Assessment report.

**EXECUTIVE SUMMARY:**

**2. BACKGROUND:**

As part of required work in the Provincial/Division Road Class Environmental Assessment, Environmental Study Report, which was approved in August, 2007 (see attached lane cross-sections) by the Ministry of Environment, Council approved funding of \$132,895 in total for the Provincial/Division Corridor drainage study (Project#7086003) in the 2008, 2009 and 2010 Capital Budget. CAO report #1041 approved retaining the firm of UMA Engineering Limited, currently renamed and known as AECOM, to conduct the Provincial Road/Division Road Drainage Study and Storm & Sanitary Functional Design, within the Class 'C' Environmental Assessment Study area shown in the drawing 4M-109, in accordance with their proposal for consulting services, dated September 9, 2008. The scope of the work was extended further to

Howard from Division to Grand Marais Drain south of E.C. Row Expressway and to North Roseland storm water retention facility based on the required outlet and storage capacities.

### **3. DISCUSSION:**

The study area covers 238 hectare commercial and industrial properties with some residential and recreational areas. Existing drainage problems, future development requirements, environmental concerns and alternative solutions were investigated and analyzed. By using modelling methods, storm water management alternatives were compared and optimized, and preliminary functional design of storm and sanitary sewers were completed.

The recommended solution includes the following major works:

- Enclose all the road side ditches and install storm sewer in Provincial/Division corridor including:
  - o Provincial Road from Walker Road to Division Road
  - o Division Road from Provincial Road to Howard Avenue
  - o Howard Avenue from Division Road to the Grand Marais Drain (upgrade)
  - o Sixth Concession road from Highway 401 to Cabana Road;
- Install underground storm water storage facility in a City owned park to minimize land acquisition requirements and to avoid creating further birds problem for the Windsor Airport;
- Improve North Roseland pond pump station to increase pumping capacity instead of installing more pump stations;
- Eliminate the existing lift station serving the Devonwood Subdivision;
- To make sanitary sewer services available to developed and vacant lands and eliminate septic tank and private forcemains.

To gain required outlet capacity for the area, the section of Grand Marais Drain between Howard and Dougall Avenue needs to be improved prior to the implementation of recommended solution Phase 5 as shown in recommended option FD-5A, or more storm water storage capacity would be required for the corridor, as shown in recommended option FD-5B.

It is noted that Phase 1 of the work is included in the City's planned construction of the Provincial & Cabana Intersection Improvements.

### **4. FINANCIAL MATTERS:**

The estimated costs to implement recommended storm & sanitary functional design solutions outlined in the report will be in the approximately total amount up to \$ 17,752,000. The work will be phased as shown on attached Proposed Phasing Drawing and breakdown as follows:

- Phase 1 – Provincial Cabana Intersection Improvements - \$ 425,000 (included in Provincial/Cabana Intersection work)
- Phase 2 – North Roseland storm water facility and pump station improvements - \$4,690,000
- Phase 3 – Provincial Road from south limit of Phase 1 to south of Legacy park Dr - \$2,224,000
- Phase 4 – Provincial Road from south limit of Phase 3 to Walker Road - \$322,000
- Phase 5 – Howard/Division from Grand Marais Drain to Sydney Ave - \$1,274, 000 to \$6,366,000

Phase 6 – Division Road from Sydney Ave. to Marentette Ave. - \$527,000 to \$2,787,000  
Phase 7– Provincial Road from Marentette Ave. to north limit of Phase 1 - \$192,000 to \$220,000  
Phase 8- Remainder of Division Road, Sixth Concession Road and Cabana Road East - \$121,000

Phase Z\* – Enclosure 5<sup>th</sup> Concession Drain from Highway 401 to CN railway on Sixth Concession Road - \$ 597,000

\*: This part of the work is outside the scope of Provincial/Division Corridor Environmental Assessment Study Report; however, the drainage capacity has been included in this functional design and study. The Phase Z work can be implemented any time after Phase 2 North Roseland storm water facility and pump station improvements.

It is noted that road construction for the entire Provincial/Division Corridor as outlined in drawing 4M-109 is estimated at an additional cost \$24,000,000.

## 5. CONSULTATIONS:

Scheduled progress meetings were held with Essex Region Conservation Authority (ERCA) and internal departments including Public Works Operations, Parks & Recreations, Pollution Controls. Planning and Legal Department were consulted for the future land development.

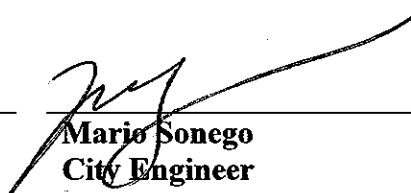
Draft Report has been reviewed and commented by ERCA, Public Works Operations, Parks & Recreations, and Pollution Controls.

## 6. CONCLUSION:

Administration recommends the report be received and used to plan for future road construction in this Provincial/Cabana area outlined in drawing 4M-109.



Jane Z. He  
Engineer III (A)



Mario Sonego  
City Engineer

Bmw/JH

**APPENDICES: Provincial/Division Road Drainage Study and Storm and Sanitary Sewer Functional Design; 4M-109; Typical lane cross-sections; Sketch of Proposed Phasing.**

### **DEPARTMENTS/OTHERS CONSULTED:**

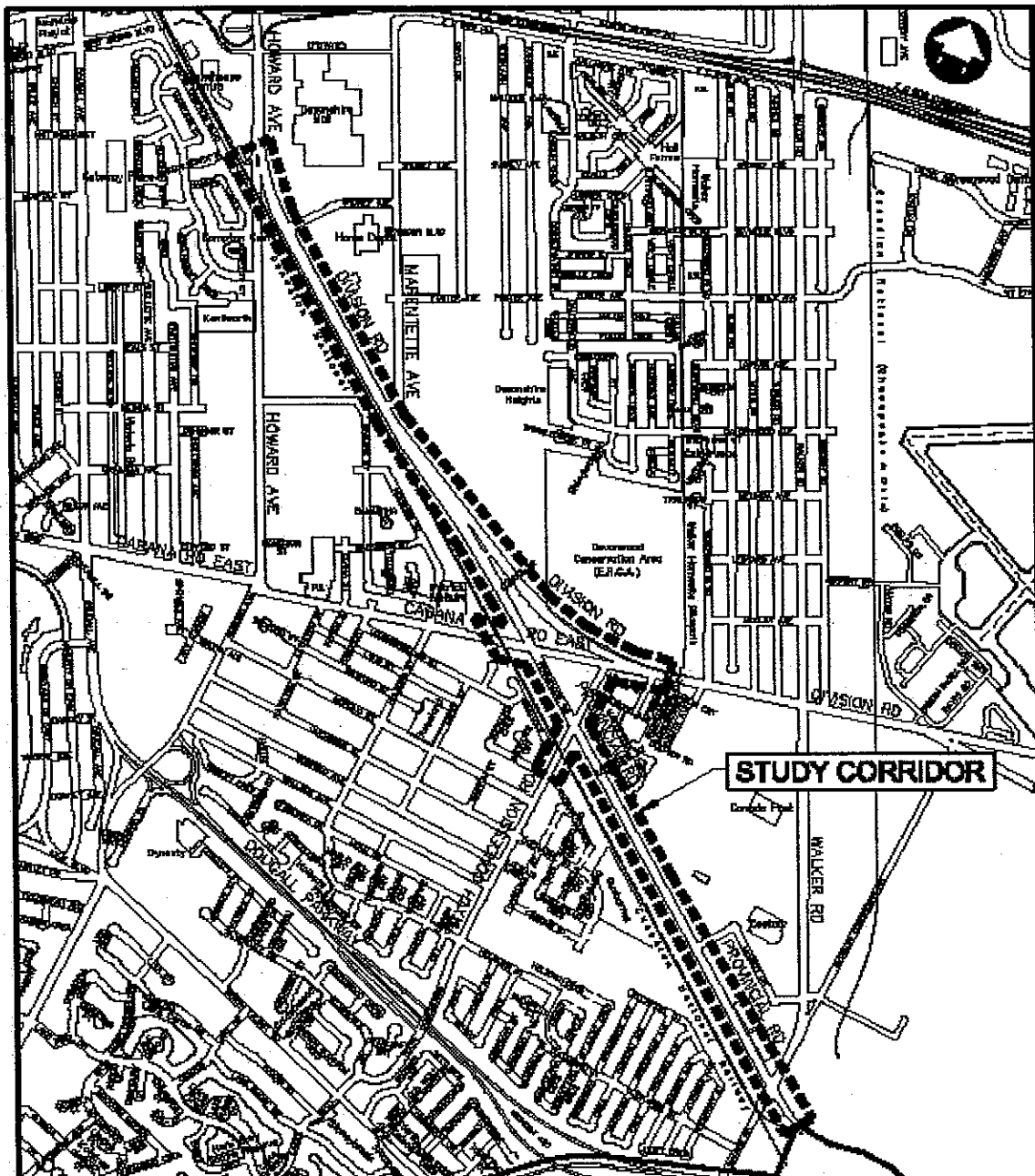
Name:

Phone #: 519

ext.

**NOTIFICATION :**

Name	Address	Email Address	Telephone	FAX
Paolo Eugeni, P. Eng.	350 Cabana Road East	Paolo.Eugeni@aecom.com	519-969-8449	519-969-9420



THE CORPORATION OF THE CITY OF WINDSOR – INFRASTRUCTURE SERVICES

**KEY PLAN FOR PROVINCIAL ROAD / DIVISION ROAD  
ENVIRONMENTAL STUDY REPORT**

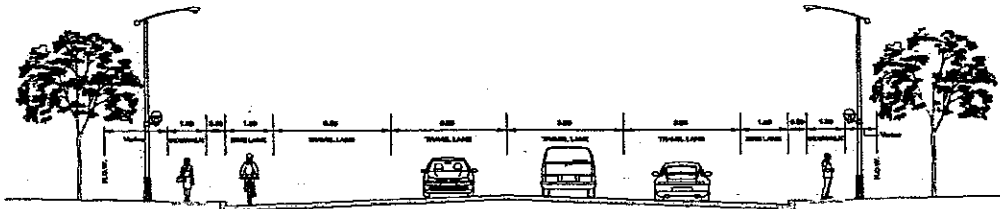
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DATE: JANUARY/08

DWC. NO. 4M-108

DWN BY: M. BONTORIN

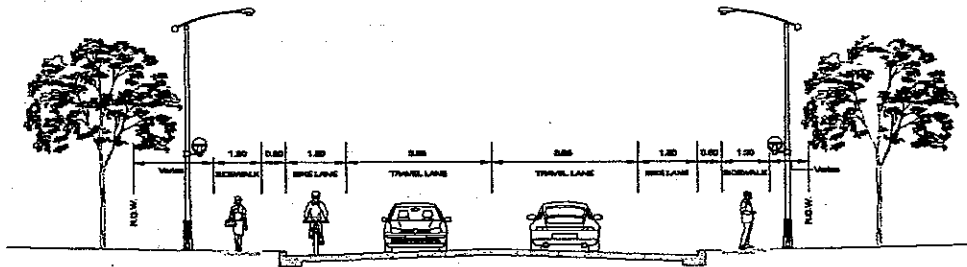
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### TYPICAL 4 LANE CROSS SECTION

CABANA ROAD EAST - DFTF RAIL to BARRACUDA AVENUE

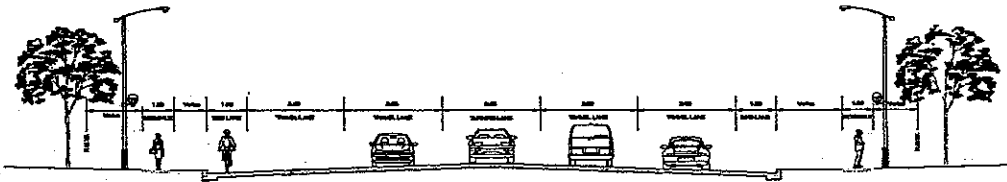
FIGURE 5.0c  
Not to Scale



### TYPICAL 2 LANE CROSS SECTION

6th CONCESSION ROAD - DFTF RAIL to CABANA ROAD EAST

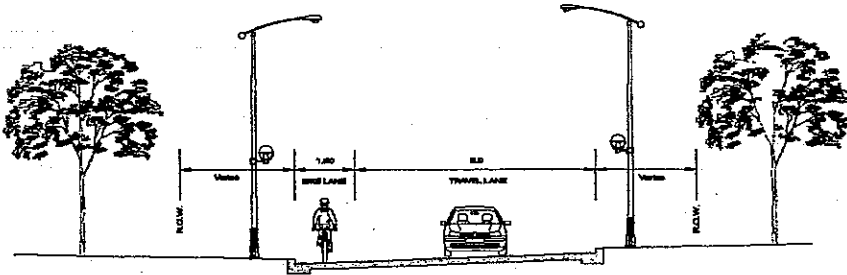
FIGURE 5.0d  
Not to Scale



### TYPICAL 5 LANE CROSS SECTION

PROVINCIAL / DIVISION ROAD - SYDNEY AVENUE to WALKER ROAD

FIGURE 5.0a  
Not To Scale

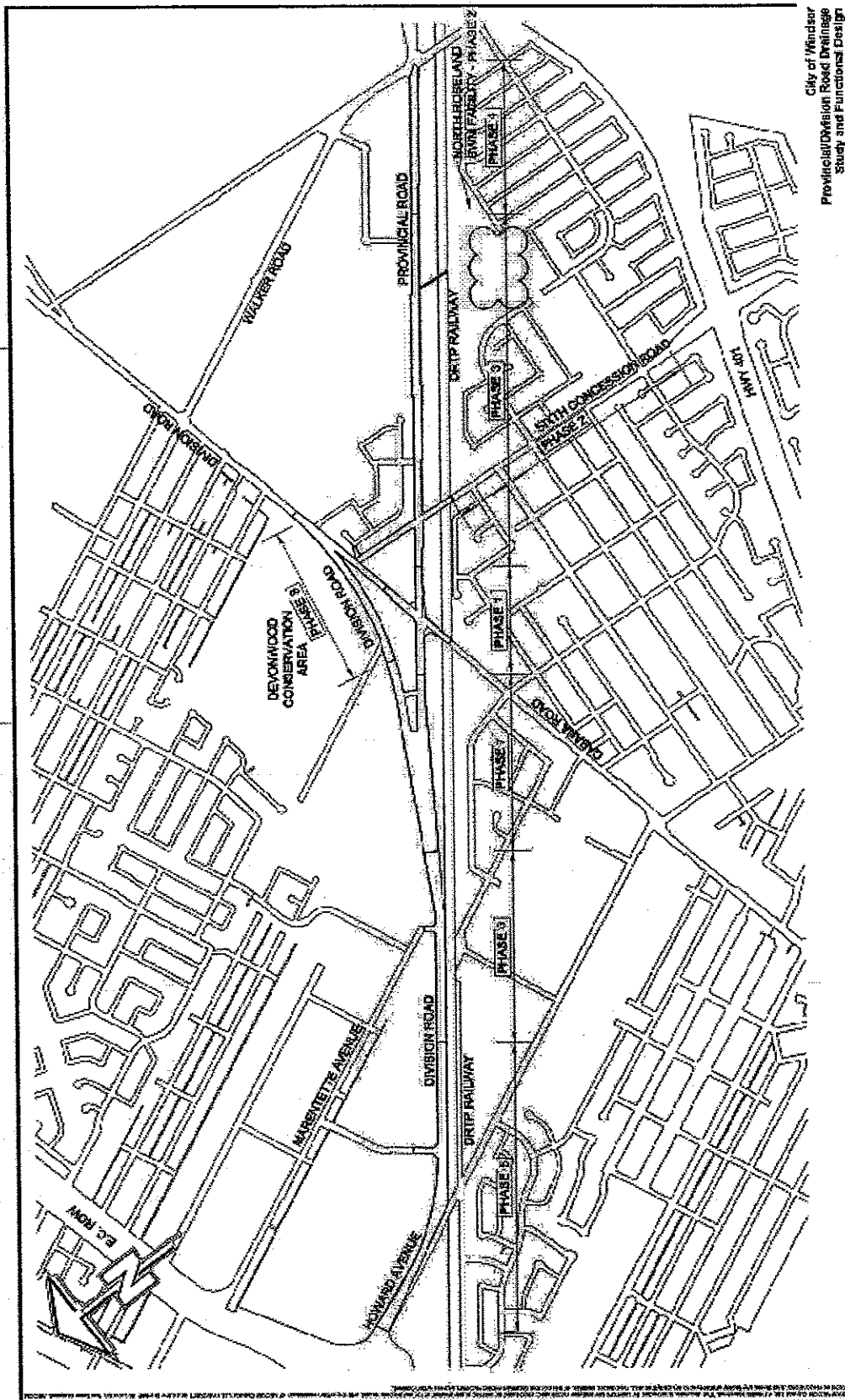


### TYPICAL 1 LANE CROSS SECTION

DIVISION ROAD - CABANA ROAD EAST to MARENTETTE AVENUE

FIGURE 5.0b  
Not To Scale





City of Windsor  
 Provincial/Division Road Drainage  
 Study and Functional Design

**Proposed Phasing**