Welcome

Virtual Presentation

Reconstruction Project

Sydney Street South (Delta Street to King Street East)
Delta Street (Sydney Street South to Charles Street East)
Maurice Street (Sydney Street South to Ottawa Street South)
Sydney Street South Multiuse Trail (Delta Street to Nyberg Street)

March 2021

Posted Online
**Project Information**

**Reconstruction Project**

**Sydney Street South** (Delta Street to King Street East), **Delta Street** (Sydney Street South to Charles Street East) **Maurice Street** (Sydney Street South to Ottawa Street South) and **Sydney Street South** Multi-Use Trail (Delta Street to Nyberg Street)

**Purpose of the Meeting:**
To present for public comment and input, the proposed reconstruction details.

**Project Description:**
The existing storm and sanitary sewers, watermains, as well as service connections, curbs, sidewalk, and the road structure will be replaced.

**Project Funding:**
This project is funded by the ratepayers of Kitchener.

**Construction Schedule:**
Construction is anticipated to begin in April 2021 with paving complete by November 2021.

**Contractor:**
J-AAR Excavating

**Project Management:**
The City of Kitchener Development Services Department, Engineering Services Division.

**Personnel to Contact:**
Should you have any questions or comments about this project and wish to speak with someone personally, you may call:
Licino Costa, CET. 519-741-2200 ext.7132, licino.costa@kitchener.ca
Arend Lootsma, P.Eng., 519-585-2255, Arend.Lootsma@ibigroup.com
The Sidewalk Infill Policy directs staff to construct sidewalk on both sides of a street where feasible.

Using best engineering practices staff have developed a design which balances the challenges associated with the new sidewalk.

Delta Street is being converted from a local road to an active transportation corridor similar to the Iron Horse Trail. This transition has been approved as part of a separate consultation process.

Infill sidewalk is being proposed on the east side of Sydney Street from Charles Street to Delta Street and a Multi-Use Trail has been proposed on the east side of Sydney Street from Delta Street to Nyberg Street.
Staging

In order to reduce disruption, the project is being undertaken in three (3) stages:

• Stage 1: Sydney St. S. - Nyberg St. to King St. E.
• Stage 2: Maurice St – Ottawa St. S. to Sydney St. S.
• Stage 3: Delta Street – Sydney St. S. to Charles St. E.
Project Highlights

Sydney Street South (Delta Street to King Street East)

- Overview of work:
  - Complete Reconstruction of Sydney Street South including new curbs, sidewalks, asphalt roadway, sanitary sewer and services, watermain and services and storm sewer including infiltration of ground water.

- Proposed changes from existing roadway:
  - Reduction of street width from existing 9.0m to 7.0m to meet City of Kitchener Complete Streets guidelines. Parking to remain on west side of street and remain restricted on the east side of the street.
  - Increase in sidewalk width from existing 1.5m to 1.8m to meet City of Kitchener Complete Streets guidelines.
  - Addition of sidewalk on the east side of the street.
  - The existing speed humps will be re-instated.

The next two slides will illustrate the identified changes with proposed layout overlaid on top of the existing aerial image.
**Project Highlights**

**Sydney Street South** (Nyberg Street to Delta Street)

- **Overview of work:**
  - Installation of a new multi-use trail on the east side of the road from Nyberg Street to Delta Street, including new curbs and minor storm works.

- **Proposed changes from existing roadway:**
  - Reduction of street width from existing 9.0m to 7.0m to meet City of Kitchener Complete Streets guidelines. Parking to remain on west side of street and remain restricted on the east side of the street.
  - Addition of a new multi-use trail on the east side of the roadway.
  - The existing speed humps will be re-instated.
  - Minor storm works to account for the adjustment of the roadway.

The next slide will illustrate the identified changes with proposed layout overlaid on top of the existing aerial image.
PROPOSED CONDITIONS FROM STA. 3+000 TO STA. 3+165
SYDNEY STREET SOUTH

H1:250  V1:50

NOTES:

SERVICE CONNECTIONS

ALL WATER SERVICE CONNECTIONS ARE 25mm∅ P.E. PIPE WITH SERVICE BOXES SET ON PROPERTY LINE, UNLESS OTHERWISE NOTED.

STORM SERVICES ARE 150mm∅ PVC DR 28, AND CONNECTION TO EXISTING WILL BE AT PROPERTY LINE, UNLESS OTHERWISE DIRECTED.

SANITARY SERVICES ARE 100mm∅ OR 150mm∅ PVC DR 28, AND CONNECTION TO EXISTING WILL BE AT PROPERTY LINE, UNLESS OTHERWISE DIRECTED.

FOR PARALLEL INSTALLATION OF WATERMAIN AND A SANITARY/STORM SEWER (INCLUDING A CATCHBASIN LEAD), PROVIDE MINIMUM 2.5m CLEAR HORIZONTAL SEPARATION DISTANCE FROM PIPE EDGE TO PIPE EDGE. FOR CROSSING OF A WATERMAIN BELOW OR ABOVE A SANITARY/STORM SEWER (INCLUDING A CATCHBASIN LEAD) PROVIDE A 0.5m CLEAR VERTICAL SEPARATION DISTANCE BETWEEN CROW WATERMAIN AND INVERT OF SEWER.

ROAD PAVEMENT STRUCTURE

HL3 SURFACE ASPHALT-40mm
HL4 BINDER ASPHALT-80mm
GRANULAR "A" BASE-150mm
GRANULAR "B" BASE-450mm

ALL RESIDENTIAL DWYS. PER COK 109. ALL INDUSTRIAL, COMMERCIAL AND HIGH DENSITY RESIDENTIAL DWYS. PER OPSD 350.010. ALL SIDEWALK RAMPS PER COK 116, AND 117.

OTHER UTILITIES

TEMPORARY SUPPORT OF EXISTING UTILITY POLES MUST BE APPROVED BY KITCHENER-WILMOT HYDRO. ALL ASSOCIATED COSTS WILL BE THE RESPONSIBILITY OF CONTRACTOR.

SERVICE CONNECTION INFORMATION MAY BE INCOMPLETE, OR ONLY GENERALLY ACCURATE. SOME SANITARY SERVICES MAY ALSO HAVE SEPARATE CELLAR DRAIN PIPES.

- PROPOSED SANITARY AND/OR WATER SERVICES TO BE TUNNELLED TO AVOID CONFLICTS WITH TREES, PLANTING BEDS, ETC.
- IDENTIFIES LOTS APPEARING TO HAVE MULTIPLE SANITARY SERVICES.

BOREHOLES

MANHOLES, CATCHBASIN MANHOLES, CATCHBASINS
FOR MANHOLES, CATCHBASIN MANHOLES, AND CATCHBASINS GRATE ELEVATIONS ARE THE FINISHED PAVEMENT ELEVATION AT THE CENTRE OF THE STRUCTURE.
SIDE INLET CATCHBASIN GRATE ELEVATION ARE THE TOP OF CURB ELEVATION.
MANHOLE TAPER CONES AND FRAMES SHALL BE ROTATED TO ENSURE THE COVER IS NOT POSITIONED IN THE WHEEL PATH.

STORM SEWER PIPE MATERIAL
UNLESS OTHERWISE NOTED AS PER THE DGSSMS C.3.1.7 THE CONTRACTOR MAY CHOOSE TO INSTALL EITHER PVC DR-35 (CSA B182.2) OR HDPE (CSA 182.8 - WATERTIGHT GASKETS) WITH INTEGRAL BELL AND PVC (CSA 182.2) FITTINGS, OR OTHER MATERIAL AS PERMITTED BY THE CONTRACT CONDITIONS.

REFER TO REPORTS No: 160-P-0016322-0-08-107-GE-R-0001-00(SYDNEY), 160-P-0016322-0-07-106-GE-R-0001-00(DELTA), 160-P-0016322-0-11-110-GE-R-0001-00(MAURICE) BY ENGLOBE DATED NO

COMMERCIAL PAVEMENT STRUCTURE

HL3 SURFACE ASPHALT-40mm
HL4 BINDER ASPHALT-50mm
GRANULAR "A" BASE-150mm
GRANULAR "B" BASE-300mm

OTHER UTILITIES

MANHOLES, CATCHBASIN MANHOLES, CATCHBASINS
FOR MANHOLES, CATCHBASIN MANHOLES, AND CATCHBASINS GRATE ELEVATIONS ARE THE FINISHED PAVEMENT ELEVATION AT THE CENTRE OF THE STRUCTURE.
SIDE INLET CATCHBASIN GRATE ELEVATION ARE THE TOP OF CURB ELEVATION.
MANHOLE TAPER CONES AND FRAMES SHALL BE ROTATED TO ENSURE THE COVER IS NOT POSITIONED IN THE WHEEL PATH.

STORM SEWER PIPE MATERIAL
UNLESS OTHERWISE NOTED AS PER THE DGSSMS C.3.1.7 THE CONTRACTOR MAY CHOOSE TO INSTALL EITHER PVC DR-35 (CSA B182.2) OR HDPE (CSA 182.8 - WATERTIGHT GASKETS) WITH INTEGRAL BELL AND PVC (CSA 182.2) FITTINGS, OR OTHER MATERIAL AS PERMITTED BY THE CONTRACT CONDITIONS.

REFER TO REPORTS No: 160-P-0016322-0-08-107-GE-R-0001-00(SYDNEY), 160-P-0016322-0-07-106-GE-R-0001-00(DELTA), 160-P-0016322-0-11-110-GE-R-0001-00(MAURICE) BY ENGLOBE DATED NO

COMMERCIAL PAVEMENT STRUCTURE

HL3 SURFACE ASPHALT-40mm
HL4 BINDER ASPHALT-50mm
GRANULAR "A" BASE-150mm
GRANULAR "B" BASE-300mm

OTHER UTILITIES

MANHOLES, CATCHBASIN MANHOLES, CATCHBASINS
FOR MANHOLES, CATCHBASIN MANHOLES, AND CATCHBASINS GRATE ELEVATIONS ARE THE FINISHED PAVEMENT ELEVATION AT THE CENTRE OF THE STRUCTURE.
SIDE INLET CATCHBASIN GRATE ELEVATION ARE THE TOP OF CURB ELEVATION.
MANHOLE TAPER CONES AND FRAMES SHALL BE ROTATED TO ENSURE THE COVER IS NOT POSITIONED IN THE WHEEL PATH.

STORM SEWER PIPE MATERIAL
UNLESS OTHERWISE NOTED AS PER THE DGSSMS C.3.1.7 THE CONTRACTOR MAY CHOOSE TO INSTALL EITHER PVC DR-35 (CSA B182.2) OR HDPE (CSA 182.8 - WATERTIGHT GASKETS) WITH INTEGRAL BELL AND PVC (CSA 182.2) FITTINGS, OR OTHER MATERIAL AS PERMITTED BY THE CONTRACT CONDITIONS.

REFER TO REPORTS No: 160-P-0016322-0-08-107-GE-R-0001-00(SYDNEY), 160-P-0016322-0-07-106-GE-R-0001-00(DELTA), 160-P-0016322-0-11-110-GE-R-0001-00(MAURICE) BY ENGLOBE DATED NO
Project Highlights

Maurice Street (Sydney Street South to Ottawa Street South)

• Overview of work:
  • Complete Reconstruction of Maurice Street including new curbs, sidewalks, asphalt roadway, sanitary sewer and services, watermain and services and storm sewer.

• Proposed changes from existing roadway:
  • Reduction of street width from existing 9.0m to 7.0m to meet City of Kitchener Complete Streets guidelines. Parking to remain on south side of street and remain restricted on the north side of the street.
  • Increase in sidewalk width from existing 1.5m to 1.8m on the north side of the street to meet City of Kitchener Complete Streets guidelines. The sidewalk on the south side of the street will remain 1.5m wide as a result of conflicts.

The next slide will illustrate the identified changes with proposed layout overlaid on top of the existing aerial image.
PROPOSED CONDITIONS
FROM STA. 2+000 TO STA. 2+166
MAURICE STREET

NOTES:

SERVICE CONNECTIONS

- All water service connections are 25mm∅ P.E. pipe with service box on property line, unless otherwise noted.
- Storm services are 150mm∅ PVC DR 28, and connection to existing will be at property line, unless otherwise directed.
- Sanitary services are 100mm∅ or 150mm∅ PVC DR 28, and connection to existing will be at property line, unless otherwise directed.

- For parallel installation of watermain and a sanitary/storm sewer (including a catchbasin lead), provide minimum 2.5m clear horizontal separation distance from pipe edge to pipe edge. For crossing of a watermain below or above a sanitary/storm sewer (including a catchbasin lead), provide a 0.5m clear vertical separation distance between crown watermain and invert of sewer.

ROAD PAVEMENT STRUCTURE

HL3 SURFACE ASPHALT - 40mm
HL4 BINDER ASPHALT - 80mm
GRANULAR "A" BASE - 150mm
GRANULAR "B" BASE - 450mm

ALL RESIDENTIAL DWYS. PER COK 109. ALL INDUSTRIAL, COMMERCIAL AND HIGH DENSITY RESIDENTIAL DWYS. PER OPSD 350.010. ALL SIDEWALK RAMPS PER CO 116, AND 117.

OTHER UTILITIES

- Temporary support of existing utility poles must be approved by Kitchener-Wilmot Hydro. All associated costs will be the responsibility of the contractor.
- Service connection information may be incomplete, or only generally accurate. Some sanitary services may also have separate cellar drain pipes.

- Proposed sanitary and/or water services to be tunnelled to avoid conflicts with trees, planting beds, etc.
- Identifies lots appearing to have multiple sanitary services.

BOREHOLES

- Manholes, catchbasin manholes, and catchbasins.
- For manholes, catchbasin manholes, and catchbasins, grate elevations are the finished pavement elevation at the centre of the structure. Side inlet catchbasin grate elevations are the top of curb elevation.
- Manhole taper cones and frames shall be rotated to ensure the cover is not positioned in the wheel path.

STORM SEWER PIPE MATERIAL

Unless otherwise noted as per the DGSSMS C.3.1.7, the contractor may choose to install either PVC DR-35 (CSA B182.2) or HDPE (CSA 182.8 - Watertight Gaskets) with integral bell and PVC (CSA 182.2) fittings, or...
Project Highlights

Delta Street (Sydney Street South to Charles Street East)

- Overview of work:
  - Complete Reconstruction of Delta Street including sanitary sewer and services, watermain and services and storm sewer and new multi use trail.

- Proposed changes from existing roadway:
  - The existing roadway will be converted from a through traffic roadway to a multi use trail for active transportation.

The next three slides will illustrate the identified changes with proposed layout overlaid on top of the existing aerial image.
PROPOSED CONDITIONS
FROM STA. 1+000 TO STA. 1+150
DELTA STREET

MATCHLINE - STA. 1+150
MATCHLINE - STA. 1+000

NOTES:
- PROPOSED SANITARY AND/OR WATER SERVICES TO BE TUNNELLED TO AVOID CONFLICTS WITH TREES, PLANTING BEDS, ETC.
- IDENTIFIES LOTS APPEARING TO HAVE MULTIPLE SANITARY SERVICES.

ROAD PAVEMENT STRUCTURE
HL3 SURFACE ASPHALT-40mm
HL4 BINDER ASPHALT-80mm
GRANULAR "A" BASE-150mm
GRANULAR "B" BASE-450mm

ALL RESIDENTIAL DWYS. PER COK 109. ALL INDUSTRIAL, COMMERCIAL AND HIGH DENSITY RESIDENTIAL DWYS. PER OPSD 350.010. ALL SIDEWALK RAMPS PER COK 116, AND 117.

OTHER UTILITIES
TEMPORARY SUPPORT OF EXISTING UTILITY POLES MUST BE APPROVED BY KITCHENER-WILMOT HYDRO. ALL ASSOCIATED COSTS WILL BE THE RESPONSIBILITY OF CONTRACTOR.

SERVICE CONNECTION INFORMATION MAY BE INCOMPLETE, OR ONLY GENERALLY ACCURATE. SOME SANITARY SERVICES MAY ALSO HAVE SEPARATE CELLAR DRAIN PIPES.

BOREHOLES
MANHOLES, CATCHBASIN MANHOLES, CATCHBASINS
FOR MANHOLES, CATCHBASIN MANHOLES, AND CATCHBASINS GRATE ELEVATIONS ARE THE FINISHED PAVEMENT ELEVATION AT THE CENTRE OF THE STRUCTURE. SIDE INLET CATCHBASIN GRATE ELEVATION ARE THE TOP OF CURB ELEVATION. MANHOLE TAPER CONES AND FRAMES SHALL BE ROTATED TO ENSURE THE COVER IS NOT POSITIONED IN THE WHEEL PATH.

STORM SEWER PIPE MATERIAL
UNLESS OTHERWISE NOTED AS PER THE DGSSMS C.3.1.7 THE CONTRACTOR MAY CHOOSE TO INSTALL EITHER PVC DR-35 (CSA B182.2) OR HDPE (CSA 182.8 - WATERTIGHT GASKETS) WITH INTEGRAL BELL AND PVC (CSA 182.2) FITTINGS, OR OTHER EQUIVALENT MATERIAL.

REFER TO REPORTS No: 160-P-0016322-0-08-107-GE-R-0001-00(SYDNEY), 160-P-0016322-0-07-106-GE-R-0001-00(DELTA), 160-P-0016322-0-11-110-GE-R-0001-00(MAURICE) BY ENGLOBE DATED NO,

COMMERCIAL PAVEMENT STRUCTURE
HL3 SURFACE ASPHALT-40mm
HL4 BINDER ASPHALT-50mm
GRANULAR "A" BASE-150mm
GRANULAR "B" BASE-300mm
MATCHLINE = STA. 1+150

FROM STA. 1+150 TO STA. 1+280

DELTA STREET

H1:250  V1:50

IBI GROUP
101 - 410 Albert Street
Waterloo ON  N2L 3V3 Canada
tel 519 585 2255
ibigroup.com

NOTES:

SERVICE CONNECTIONS

- ALL WATER SERVICE CONNECTIONS ARE 25mm∅ P.E. PIPE WITH SERVICE BOXES SET ON PROPERTY LINE, UNLESS OTHERWISE NOTED
- STORM SERVICES ARE 150mm∅ PVC DR 28, AND CONNECTION TO EXISTING WILL BE AT PROPERTY LINE, UNLESS OTHERWISE DIRECTED.
- SANITARY SERVICES ARE 100mm∅ OR 150mm∅ PVC DR 28, AND CONNECTION TO EXISTING WILL BE AT PROPERTY LINE, UNLESS OTHERWISE DIRECTED.
- FOR PARALLEL INSTALLATION OF WATERMAIN AND A SANITARY/STORM SEWER (INCLUDING A CATCHBASIN LEAD), PROVIDE MINIMUM 2.5m CLEAR HORIZONTAL SEPARATION DISTANCE FROM PIPE EDGE TO PIPE EDGE.
- FOR CROSSING OF A WATERMAIN BELOW OR ABOVE A SANITARY/STORM SEWER (INCLUDING A CATCHBASIN LEAD), PROVIDE A 0.5m CLEAR VERTICAL SEPARATION DISTANCE BETWEEN CROWNS OF WATERMAIN AND INVERT OF SEWER.

ROAD PAVEMENT STRUCTURE

HL3 SURFACE ASPHALT-40mm
HL4 BINDER ASPHALT-80mm
GRANULAR "A" BASE-150mm
GRANULAR "B" BASE-450mm

ALL RESIDENTIAL DWYS. PER COK 109. ALL INDUSTRIAL, COMMERCIAL AND HIGH DENSITY RESIDENTIAL DWYS. PER OPSD 350.010. ALL SIDEWALK RAMPS PER COK 116, AND 117.

OTHER UTILITIES

TEMPORARY SUPPORT OF EXISTING UTILITY POLES MUST BE APPROVED BY KITCHENER-WILMOT HYDRO. ALL ASSOCIATED COSTS WILL BE THE RESPONSIBILITY OF CONTRACTOR.

SERVICE CONNECTION INFORMATION MAY BE INCOMPLETE, OR ONLY GENERALLY ACCURATE. SOME SANITARY SERVICES MAY ALSO HAVE SEPARATE CELLAR DRAIN PIPES.

- PROPOSED SANITARY AND/OR WATER SERVICES TO BE TUNNELLED TO AVOID CONFLICTS WITH TREES, PLANTING BEDS, ETC.
- IDENTIFIES LOTS APPEARING TO HAVE MULTIPLE SANITARY SERVICES.

BOREHOLES
MANHOLES, CATCHBASIN MANHOLES, CATCHBASINS
FOR MANHOLES, CATCHBASIN MANHOLES, AND CATCHBASINS GRATE ELEVATIONS ARE THE FINISHED PAVEMENT ELEVATION AT THE CENTRE OF THE STRUCTURE.
SIDE INLET CATCHBASIN GRATE ELEVATION ARE THE TOP OF CURB ELEVATION.
MANHOLE TAPER CONES AND FRAMES SHALL BE ROTATED TO ENSURE THE COVER IS NOT POSITIONED IN THE WHEEL PATH.

STORM SEWER PIPE MATERIAL

UNLESS OTHERWISE NOTED AS PER THE DGSSMS C.3.1.7 THE CONTRACTOR MAY CHOOSE TO INSTALL EITHER PVC DR-35 (CSA B182.2) OR HDPE (CSA 182.8 - WATERTIGHT GASKETS) WITH INTEGRAL BELL AND PVC (CSA 182.2) FITTINGS, OR OTHER MATERIALS AS APPROVED. REFER TO REPORTS No: 160-P-0016322-0-08-107-GE-R-0001-00(SYDNEY), 160-P-0016322-0-07-106-GE-R-0001-00(DELTA), 160-P-0016322-0-11-110-GE-R-0001-00(MAURICE) BY ENGLOBE DATED NOVEMBER 11, 2012.

COMMERCIAL PAVEMENT STRUCTURE

HL3 SURFACE ASPHALT-40mm
HL4 BINDER ASPHALT-50mm
GRANULAR "A" BASE-150mm
GRANULAR "B" BASE-300mm
MATCHLINE = STA. 1+280

DELTA ST. AND CHARLES ST. E.

H1:250  V1:50

13

NORTH

BEFORE STARTING WORK

DWG. No.

APPROVED BY:

CITY OF

The Corporation Of The

KITCHENER

Development Services

Engineering Division

BENCHMARK

SURVEY

DESIGNED BY:

CONSULTANT DWG. No.

121507

DRAWN BY:

SCALE:

DATE:  (MM.DD.YY)

CHECKED BY:

CONTRACT NO:

NOTES:

SERVICE CONNECTIONS

ALL WATER SERVICE CONNECTIONS ARE 25mm∅ P.E. PIPE WITH SERVICE BOXES SET ON PROPERTY LINE, UNLESS OTHERWISE NOTED

STORM SERVICES ARE 150mm∅ PVC DR 28, AND CONNECTION TO EXISTING WILL BE AT PROPERTY LINE, UNLESS OTHERWISE DIRECTED.

SANITARY SERVICES ARE 100mm∅ OR 150mm∅ PVC DR 28, AND CONNECTION TO EXISTING WILL BE AT PROPERTY LINE, UNLESS OTHERWISE DIRECTED.

FOR PARALLEL INSTALLATION OF WATERMAIN AND A SANITARY/STORM SEWER (INCLUDING A CATCHBASIN LEAD), PROVIDE MINIMUM 2.5m CLEAR HORIZONTAL SEPARATION DISTANCE FROM PIPE EDGE TO PIPE EDGE. FOR CROSSING OF A WATERMAIN BELOW OR ABOVE A SANITARY/STORM SEWER (INCLUDING A CATCHBASIN LEAD) PROVIDE A 0.5m CLEAR VERTICAL SEPARATION DISTANCE BETWEEN CROWNS OF WATERMAIN AND INVERT OF SEWER.

ROAD PAVEMENT STRUCTURE

HL3 SURFACE ASPHALT-40mm

HL4 BINDER ASPHALT-80mm

GRANULAR "A" BASE-150mm

GRANULAR "B" BASE-450mm

ALL RESIDENTIAL DWYS. PER COK 109. ALL INDUSTRIAL, COMMERCIAL AND HIGH DENSITY RESIDENTIAL DWYS. PER OPSD 350.010. ALL SIDEWALK RAMPS PER COK 116, AND 117.

OTHER UTILITIES

TEMPORARY SUPPORT OF EXISTING UTILITY POLES MUST BE APPROVED BY KITCHENER-WILMOT HYDRO. ALL ASSOCIATED COSTS WILL BE THE RESPONSIBILITY OF CONTRACTOR.

SERVICE CONNECTION INFORMATION MAY BE INCOMPLETE, OR ONLY GENERALLY ACCURATE. SOME SANITARY SERVICES MAY ALSO HAVE SEPARATE CELLAR DRAIN PIPES.

-PROPOSED SANITARY AND/OR WATER SERVICES TO BE TUNNELED TO AVOID CONFLICTS WITH TREES, PLANTING BEDS, ETC.

-IDENTIFIES LOTS APPEARING TO HAVE MULTIPLE SANITARY SERVICES.

BOREHOLES

MANHOLES, CATCHBASIN MANHOLES, CATCHBASINS

FOR MANHOLES, CATCHBASIN MANHOLES, AND CATCHBASINS GRATE ELEVATIONS ARE THE FINISHED PAVEMENT ELEVATION AT THE CENTRE OF THE STRUCTURE.

SIDE INLET CATCHBASIN GRATE ELEVATION ARE THE TOP OF CURB ELEVATION.

MANHOLE TAPER CONES AND FRAMES SHALL BE ROTATED TO ENSURE THE COVER IS NOT POSITIONED IN THE WHEEL PATH.

STORM SEWER PIPE MATERIAL

UNLESS OTHERWISE NOTED AS PER THE DGSSMS C.3.1.7 THE CONTRACTOR MAY CHOOSE TO INSTALL EITHER PVC DR-35 (CSA B182.2) OR HDPE (CSA 182.8 - WATERTIGHT GASKETS) WITH INTEGRAL BELL AND PVC (CSA 182.2) FITTINGS, OR AS PER THE CONTRACTUAL AGREEMENT.

REFER TO REPORTS No: 160-P-0016322-0-08-107-GE-R-0001-00(SYDNEY), 160-P-0016322-0-07-106-GE-R-0001-00(DELTA), 160-P-0016322-0-11-110-GE-R-0001-00(MAURICE) BY ENGLOBE DATED NO

COMMERCIAL PAVEMENT STRUCTURE

HL3 SURFACE ASPHALT-40mm

HL4 BINDER ASPHALT-50mm

GRANULAR "A" BASE-150mm

GRANULAR "B" BASE-300mm

THE POSITION OF THE POLE LINES, CONDUITS, WATERMAINS, SEWER OTHER UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. THE CONTRACTOR SHALL CONFIRM THE POSITION AND EXACT LOCATION OF ALL SUCH UTILITIES, AND SHALL ASSUME ALL LIABILITY FOR ANY DAMAGE CAUSED TO THEM MADE DURING THE COURSE OF THE CONTRACT WORK.

IBI GROUP

101 - 410 Albert Street

Waterloo ON  N2L 3V3 Canada

tel 519 585 2255

ibigroup.com

PROPOSED CONDITIONS

DELTA ST. AND CHARLES ST. E.
Questions?

Personnel to Contact: Should you have any questions or comments about this project and wish to speak with someone personally, you may call:

Licino Costa, CET  
519-741-2200 ext.7132  
Licino.Costa@kitchener.ca

Arend Lootsma, P.Eng.,  
519-585-2255  
Arend.Lootsma@ibigroup.com