Appendix F
Utility Plans and Correspondence

HWY 50 REGION OF PEEL --- UTILITY CONTACT LIST

| Utility / Agency | Contact | Contact Info |
| :---: | :---: | :---: |
| City of Vaughan 2141 Major Mackenzie Drive Vaughan, Ontario L6A 1T1 | Michael Frieri | Tel: 905.832.8585 ext. 8729 |
| City of Brampton Planning Design and development Dept 2 Wellington Street West., 3rd Floor Brampton, ON L6Y 4R2 | Attn: Philip | Tel: 905-874-2522 <br> Fax: 905-874-2499 <br> mike.colangelo@brampton.ca |
| York Region 17250 Yonge Street, Newmarket, Ontario, L3Y 6Z1 | Environmental Services | Tel: 905.895.1231 Ext. 5931 <br> EnvironmentalServices@york.ca |
| Peel Region <br> Operations and Maintenance <br> 2 Copper Road <br> Brampton, ON L6T 4W5 | Attn: Robert Perkins | Tel: 905-791-5997 X 3221 <br> Fax: 905-450-0288 <br> Robert.Perkins@ peelregion.ca |
| Bell Canada <br> Municipal Operations Centre C/O Plantec <br> 610 Alden Road., Suite 201 <br> Markham, ON L3R 9Z1 | Attn: Sharmila Kumar For utility conflict issues contact the following offices Chris Seaton 5115 Creekbank Rd. 3 West Mississauga, ON L4W 5R1 <br> Maureen Marshall Kleinburg Cables 444 Millard Ave. Floor 2 Newmarket, ON L3Y 2A3 | ```Tel: 905-470.2112 sharmila.kumar@Prestigetel.com Send markups to - bell.moc@prestigetel.com``` |
| Hydro One Brampton Network 175 Sandalwood Parkway West Brampton, ON L7A 1E8 | Attn: Emil Sampaga | Tel: 905-840-6300 X 3355 Fax: esampaga@hydroonebrampton.com |
| Rogers Cable TV 3573 Wolfedale Road Mississauga, ON L5C 3T6 | Attn: Edgar Henriquez | Tel: 905-897-6457 <br> Fax: <br> edgar.henriquez@rci.rogers.com |
| Enbridge Gas Distribution <br> Record Department <br> Post A2, P.O. Box 650 <br> Scarborough, ON M1K 5E3 <br> Enbridge Gas Distribution Inc. <br> 500 Consumers Road <br> 4th Floor <br> North York, ON M2J 1P8 | Attn: Bruno Pereira Or <br> Jamie Delaney - 416-4955160 (press 3, 1 for Jamie Delaney) markups@enbridge.com | $\begin{aligned} & \text { Bruno - Tel: 416-758-7906 } \\ & \text { Fax: 416-758-4373 } \\ & \text { utilitycirculations@enbridge.com } \end{aligned}$ |
| FCI Broadband Now Rogers Cable 280 Hillmount Road., Unit 9 <br> Markham, ON L6C 3A1 <br> In the GTA FCI Broadband is owned by Rogers Cable | Attn: Edgar Henriquez | Tel: 905-897-6457 <br> Fax: <br> edgar.henriquez@rci.rogers.com |
| MTS Allstream 50 Worchester Road Etobicoke, ON M9W 5X2 | Attn: Christine Anderson Cory Knight | Tel: 416-649-7527 <br> Fax: 416-649-7500 <br> Cory K. Tel: 416-649-7509 <br> christine.anderson@mtsallstream.com correy.knight @mtsallstream.com utility.circulations@mtsallstream.com |
| Hydro One Telecom 65 Kelfield Street Rexdale, ON M9W 5A3 | Attn: Ian Mitchell | Tel: 416-240-6701 <br> Fax: 416-240-6790 <br> ian.mitchell@hydroone.com |
| Telus Network 2700 Matheson Blvd East <br> 5th Floor, West Tower Mississauga, ON L4W 4V9 <br> Telus Communications 82 Locust Street Kitchener, ON N2H 1W9 | Stephen Hoy <br> Bob Quick | Tel: 905-804-6223 Fax: 905-804-6104 Stephen.hoy@ telus.com |

From:
Sent:
To:
Cc:
Subject:
Attachments:

Agnew, Tim [Tim.Agnew@york.ca]
Wednesday, September 07, 2011 2:15 PM
Baudais, Nathalie
Chiu, Edward; Servera, Vinor
RE: Project \#4956 - Highway 50 Road Widening
020.zip

The zip file:
<<020.zip>>

# Tim Agnew, bsc. (Phys.) 

Special Projects Technologist
Infrastructure \& Business Management
Strategy \& Business Planning
Environmental Services Department
The Regional Municipality of York
17250 Yonge Street
Newmarket, ON L3Y $6 Z 1$
Phone 905-830-4444 ext. 5122
Toll Free 1-877-464-9675
Fax 905-952-0982
e-mail tim.agnew@york.ca

From: Agnew, Tim
Sent: Wednesday, September 07, 2011 2:02 PM
To: 'nathalie.baudais@hdrinc.com'
Cc: Chiu, Edward; Servera, Vinor
Subject: Project \#4956-Highway 50 Road Widening
Hi Nathalie,
Attached is a zip file containing plan \& profile drawings of all York Region's water/wastewater infrastructure located within the study area.

The Region of York is not responsible for the accuracy, sufficiency or interpretation of the information on the drawing. This plan is provided for information only. Accuracy of measurements is not guaranteed and should be verified in the field.

If you have any questions or would like additional drawings please do not hesitate to contact me.
Thanks,
Tim Agnew, bsc. (Phys.)
Special Projects Technologist
Infrastructure \& Business Management
Strategy \& Business Planning
Environmental Services Department
The Regional Municipality of York
17250 Yonge Street
Newmarket, ON L3Y $6 Z 1$
Phone 905-830-4444 ext. 5122
Toll Free 1-877-464-9675





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Bell Canada Municipal Operations Centre - C/O PRESTIGE TELECOM
200 Town Centre Blvd., Suite \#300
Markham, Ontario L3R 8G5
Ph: (905) 470-2112 Fax: (905) 460-8956

## APPLICATION FOR PLANT LOCATION AND CONSENT

Applicant: HDR | iTRANS
Mark Up \#:30879
Applicant Ref \#: 4956
Location: Mayfield Rd from Coleraine Dr to Hwy 50; Hwy 50 from Mayfield Rd to Castlemore Rd
SwitchingCenter/NNX: BRAMPTON-WALKER DR/458 BOLTON/857 KLEINBURG/893
Date Received From Applicant: 2011-08-15
Marked By: Ryan Su

## APPLICATION FOR PLANT LOCATION AND REQUEST

Existing and/or proposed Bell Canada underground plant are indicated on the attached plan
Our records show no existing and / or proposed underground plant within $\mathbf{2 m}$ of your proposed installation

Conflict indicated
Meets with our approval
Not for PUCC approval - Mark up only
V
If within 1 metre of bell plant, hand dig

REMARKS: Call for locates 1.800 .400 .2255 . Maintain clearance of 0.6 m . Hand dig when crossing Bell plant.

## PROCEDURES TO FOLLOW:

1. Request locates prior to construction 1-800-400-2255
2. If exact location and depth are critical - test pits are recommended
3. Bell Canada plant location information is approximate
4. If the location of your proposed design changes, it will be necessary to re-apply
5. Permits expire six(6) months from approval date














Bell Canada Municipal Operations Centre
c/o Plantec Consulting Engineers
200 Town Centre Blvd, Suite \#300
Markham, Ontario L3R 8G5
Tel no. 905-470-2112 Fax no. 905-470-8956

## APPLICATION FOR PLANT LOCATION AND CONSENT

Applicant: HDR Corporation
Mark Up \#:32187
Applicant Ref \#: 4956
Location: Mayfield Rd from Coleratine Dr to Hwy 50; Hwy 50 from Mayfield Rd to Castlemore Rd
SwitchingCenter/NNX: 458 Brampton - Walker Dr; 857 Bolton; 893 Kleinburg
Date Received From Applicant: 2011-10-12
Marked By: Keizerling

## APPLICATION FOR PLANT LOCATION AND REQUEST

Existing and/or proposed Bell Canada underground plant are indicated on the attached plan
Our records show no existing and/or proposed underground plant within $\mathbf{2 m}$ of your proposed installation

Conflict indicated
Meets with our approval
Not for PUCC approval - Mark up only
V
If within 1 metre of bell plant, hand dig

## REMARKS: Caution

Call for locates 1.800.400.2255. Maintain clearance of 0.6 m . Hand dig when crossing Bell plant. Bell has existing plant within 2 m of proposed.

## PROCEDURES TO FOLLOW:

1. Request locates prior to construction 1-800-400-2255
2. If exact location and depth are critical - test pits are recommended
3. Bell Canada plant location information is approximate
4. If the location of your proposed design changes, it will be necessary to re-apply
5. Permits expire six(6) months from approval date
```
Signature: Date:
```

File: 2.9

## Meeting Minutes

Project: Highway 50 / Mayfield Road Class EA
Subject: Hydro One Brampton Liaison Meeting
Meeting Date: 2:30 p.m., Monday, November 22, 2010
Location: TRCA Office, 5 Shoreham Drive
Prepared by: Stephen Keen-HDR|TRANS
Attendees: Solmaz Zia - Peel Region Robert Evangelista, Hydro One Brampton

Distribution Solmaz Zia
Robert Evangelista

|  | Item | Action |
| :---: | :---: | :---: |
| 1.0 | Background |  |
| 1.1 | Robert provided a plan with hydro utility locations (mainly west side of Hwy. 50) to HDR and will forward a CAD file of same. <br> Closer to Mayfield Road, Hydro One Network, Power Stream (Vaughan) and Hydro One Brampton (HOB) all use the same poles. | R. Evangelista |
| 2.0 | Expansion |  |
| 2.1 | HOB has no current plans for expansion - future development will change that of course. |  |
| 3.0 | Clear Zone |  |
|  | HOB requires a 5 m clear zone behind the poles. The current crosssection shows 2.25 m of ROW available resulting in a potential 2.75 aerial easement. This easement is usually obtained in the City's requirement for a 4.5 m buffer strip in front of any future development. |  |
| 4.0 | Illumination |  |
|  | Illumination brackets need to be 0.15 m below the neutral line i.e. no more than 7.45 m above ground. |  |


| $\mathbf{5 . 0}$ | Other Issues/Further Actions |  |
| :--- | :--- | :--- |
| 5.1 | HOB would like to know where the exact municipal boundary is in <br> relation to Mayfield Road. | Solmaz Zia |
| 5.2 | HOB may require a permanent easement for cable supports for the <br> poles. Locations of poles will need to be determined by HOB once a <br> plan of the 30\% design is received. This will take HOB approximately <br> 4 to 6 weeks to provide this information. | HDR |
| 5.3 | R. <br> For the tight cross-section adjacent to the watercourse at Mayfield Road, <br> the pole could be placed behind the proposed barrier which would then <br> need a 4m space behind the barrier to accommodate both the sidewalk <br> and pole. | HDR |
|  | Meeting adjourned at 3:45 PM |  |


| From: | Edgar Henriquez [Edgar.Henriquez@rci.rogers.com] |
| :--- | :--- |
| Sent: | Friday, August 13, 2010 9:19 AM |
| To: | Lamontagne, Larry |
| Subject: | RE: HWY 50 Rogers Utility Markup Request |
| Attachments: | M103726_Hwy 50 from Mayfield Rd to Rutherford Rd_HDR iTRANS.dwg; ATT00001..txt |
|  |  |
| Follow Up Flag: | Follow up |
| Flag Status: | Completed |

Hi Larry,
Please find attached the mark-up drawing for the area under your study.
Rogers has aerial fiber TV plant in this area.
Rogers File M103726
Thanks

## Edgar Henriquez

Mark-up Coordinator GTAW
OPE - GTA West
Rogers Cable System Inc
3573 Wolfedale Road
Mississauga, On. L5C 3T6
Tel: 9058976457
Fax: 9052735233
------Original Message-----
From: Lamontagne, Larry [mailto:Laurent.Lamontagne@hdrinc.com]
Sent: Wednesday, May 19, 2010 10:37 AM
To: Edgar Henriquez
Cc: Keen, Stephen; Glofcheskie, Chris
Subject: HWY 50 Rogers Utility Markup Request
Hi Edgar
As per our conversation today please find attached the AutoCadd file of our EA study limits. Please markup all existing and future Rogers Cable plant.

Study limits:

- Hwy 50 (Mayfield Road to Rutherford Road)
- Mayfield Road (Hwy 50 to Coleraine Drive)

Could you please let me know the turnaround time for my request.
If you have any questions regarding my request please don't hesitate to contact me.
Thank you

## Larry Lamontagne. Dipl.T.

Transportation Designer
HDR | iTRANS
100 York Boulevard, Suite 300 | Richmond Hill, ON | L4B 1J8
Phone: $905.882 .4100 \times 5348$ | Fax: 905.882 .1557 | Email: llamontagne@itransconsulting.com
www.hdrinc.com
www.itransconsulting.com

Noss, Melissa

| From: | Keen, Stephen |
| :--- | :--- |
| Sent: | Thursday, May 20, 2010 4:28 PM |
| To: | McLaughlin, Barry |
| Cc: | Ngau, Guinevere |
| Subject: | FW: Notice of Public Information |
|  |  |
| Follow Up Flag: | Follow up |
| Flag Status: | Completed |

Barry - for your action
Guin - fyi

From: Marilou Ignacio [mignacio@enersource.com]
Sent: May 20, 2010 3:42 PM
To: solmaz.zia@peelregion.ca; nick.colarusso@york.ca; Keen, Stephen
Cc: Dal Cheema
Subject: Notice of Public Information

## Hello-

Effective immediately, please forward all Environmental Assessment Study notices to the same address c/o:

Mr. Dal Cheema, Senior Manager, Customer Engineering Department
Your cooperation is greatly appreciated.

M.B. (Lau)7quacia / Project Coordinator, Customer Engineering / Tel: (905) 283-4088 / Fax: (905)

566-2737 / Email: mignacio@enersource.com
3240 Mavis Road, Mississauga, Ontario L5C 3K1

## Noss, Melissa

From:
Sent:
To:
Subject:
Attachments:

Keen, Stephen
Monday, May 31, 2010 2:05 PM
Lamontagne, Larry
FW: 80058 - PROJECT 09-4390 - CLASS ENVIRONMENTAL ASSESSMENT STUDY -
GENERAL LOCATION
ap_AG128.pdf; ap_MV3.pdf; ap_MV4.pdf; ap_MV5.pdf; ap_MV6.pdf; ap_MV7.pdf; ap_MV8.pdf; 2007-2008 Third Party Requirements .pdf

Larry
Did you get all this info in your utilities search?
Stephen Keen, M.Sc., P.Eng.
Senior Project Manager
HDR | iTRANS
144 Front Street W, Suite 655 | Toronto, ON | M5H 2L7
Phone: $416.847 .0005 \times 5557$ | Fax: 416.857 .3127 | Email: stephen.keen@hdrinc.com
www.hdrinc.com
www.itransconsulting.com
From: Zia, Solmaz [mailto:Solmaz.Zia@peelregion.ca]
Sent: Monday, May 31, 2010 9:02 AM
To: Keen, Stephen; McLaughlin, Barry
Subject: FW: 80058-PROJECT 09-4390 - CLASS ENVIRONMENTAL ASSESSMENT STUDY - GENERAL LOCATION
To be incorporated into the base plan

Solmaz Zia, P.Eng.
Project Manager
Transportation Program Planning
Public Works, Region of Peel
Tel: (905) 791-7800 ext. 7845
Solmaz.Zia@peelregion.ca

From: Jamie Delaney [mailto:Jamie.Delaney@enbridge.com]
Sent: May 25, 2010 10:27 AM
To: Zia, Solmaz
Subject: 80058 - PROJECT 09-4390 - CLASS ENVIRONMENTAL ASSESSMENT STUDY - GENERAL LOCATION

```
PROJECT 09-4390 - CLASS ENVIRONMENTAL ASSESSMENT STUDY - HWY 50 FROM
CASTLEMORE RD/RUTHERFORD RD TO MAYFIELD RD/ALBION VAUGHAN; AND
MAYFIELD RD FROM HWY 50 TO COLERAINE DR
```

Attached is the information you had requested.
Should you require anything further please let me know.
Kind Regards,
Jamie Delaney
Distribution Planning
Enbridge Gas Distribution Inc
500 Consumers Road
4th Floor - Post A2 - VPC

North York, ON
M2J 1P8
Tel\# 416-495-6321
866-326-2924
Fax\# 416-758-4373
¡amie.delaney@enbridge.com
Enbridge Gas Distribution cannot provide information regarding the depth of cover over our gas infrastructure.
We suggest that a field locate be performed through Ontario One Call (1800 400-2255).
If further details are still required, it is suggested that test holes be performed by an outside party in order to determine the actual Enbridge Infrastructure depth.

NOTICE OF CONFIDENTIALITY: This information transmitted is intended for the person or entity to which it is addressed and may contain confidential and / or privileged material. Any review, re-transmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is prohibited. If you received this in error, please contact the sender immediately by return electronic transmission and then immediately delete this transmission, including any attachments, without copying, distributing or disclosing same.

Noss, Melissa

|  |  |
| :--- | :--- |
| From: | Keen, Stephen |
| Sent: | Friday, October 15, 2010 3:44 PM |
| To: | Lamontagne, Larry |
| Subject: | Fw: Highway 50 EA - Request for Gasmain Installation |
| Attachments: | Enbridge 1.TIF; Enbridge 2.TIF; Enbridge 3.TIF |
|  |  |
| Follow Up Flag: | Follow up |
| Flag Status: | Flagged |
|  |  |
| Fyi |  |

From: Chiu, Edward [mailto:Edward.Chiu@york.ca]
Sent: Friday, October 15, 2010 01:56 PM
To: Zia, Solmaz [Solmaz.Zia@peelregion.ca](mailto:Solmaz.Zia@peelregion.ca); Keen, Stephen
Cc: Scott, Christopher [Christopher.Scott@york.ca](mailto:Christopher.Scott@york.ca); Qiu, Julie [Julie.Qiu@york.ca](mailto:Julie.Qiu@york.ca)
Subject: Highway 50 EA - Request for Gasmain Installation

Solmaz/Steve,
Attached please proposed gasmain installation from Enbridge. As per the current agreement, Peel Region is the responsible proponent for utility coorination and approvals with York Region providing input. We will inform Enbridge accordingly.

I will find out from others if there are any comments and forward them to you.
<<Enbridge 1.TIF>> <<Enbridge 2.TIF>> <<Enbridge 3.TIF>>
Edward Chiu, P.Eng.
Sr. Project Manager
Capital Delivery - Roads
Transportation Services
The Regional Municipality of York
90 Bales Dr. E.
East Gwillimbury, Ont. LOG 1 VO
P\# 905-830-4444 x5908
F\# 905-836-4590
email: edward.chiu@york.ca







$$
\begin{aligned}
& \text { - General Requirements } \\
& \text { - Support of Gas Pipelines } \\
& \text { - Blasting Requirements } \\
& \text { - Pile Driving or Compaction Requirements } \\
& \text { - Heavy Equipment Operation in the Vicinity of } \\
& \text { Gas Pipelines }
\end{aligned}
$$

October 2007

|  |  |  |
| :--- | :--- | :--- |
|  | APPENDIX "A", |  |
|  | REGIONAL CONTACT LIST |  |

EQUIPMENT MOVING ALONG THE PIPELINE
Heavy equipment may be operated parallel to existing pipelines provided that a minimum offset of 1.0 m is maintained on pipeline sizes less than NPS 12 and 2.0 m on pipelines NPS 12 and larger unless otherwise directed by
Enbridge Gas Distribution.
Only lightweight rubber tired equipment shall be operated directly over existing gas pipelines unless a minimum pipe cover of twice the pipe diameter or 1.0 m (whichever is greater) can be verified.
When working directly over existing gas pipelines, all equipment movements shall be transverse to the staked location rather than parallel to it. COMPACTION EQUIPMENT RESTRICTIONS
Mechanical equipment shall not be operated within 0.3 m of the pipeline.
Hand held compaction equipment shall be used within 1.0 m of the sides or top of all gas pipelines.
Heavier compaction equipment may be used once the pipe cover equals the greater of twice the diameter or 1.0 m .
general vehicle external Loading restrictions
For most vehicles, other than heavy construction equipment discussed above, external loading will not be factor because the standard Enbridge Gas
Distribution pipeline cover requirements provide sufficient protection.
In cases where extreme loading is likely to occur, the following table provides vehicle load restrictions based on the depth of cover of pipe. If the loads the permit application should be contacted to specify required precautions and/or perform any loading calculation.
Since the depth of cover is important, if the depth is questionable, the pipeline should be located by hand. During wet weather conditions, increasing the
amount of cover should be considered due to the rutting over the main.

| Table No. 7 |  |  |
| :---: | :---: | :---: |
| Weight / Axle Maximum Allowable Load (kg) |  |  |
| Cast Iron (CI) | Steel (ST) | Plastic (PE) |
| 12,000 | 12,000 | 7,000 |

Vehicle Load Restrictions Based on Minimum Depth of 0.6 m .
Third Party Requirements in the Vicinity of Natural Gas Facilities
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HEAVY EQUIPMENT OPERATION IN THE VICINITY OF GAS
This information is presented as a guideline to cover precautions necessary when heavy construction equipment (gross weight greater than 10 tonnes) is where grading operations are taking place.
Prior to any crossing, the location of the gas plant must first be located by an
Enbridge Gas Distribution representative.
The excavator/constructor is responsible for confirming the location and depth of the gas plant by having test holes excavated as necessary with respect to
the local conditions but not more than 50 m intervals.

## EQUIPMENT MOVING ACROSS THE PIPELINE

Crossing locations for heavy equipment are to be kept a minimum.
Distribution representative and the excavator/constructor. The crossing
location shall be based on the following:
Nature of the construction operations

- The types and number of equipment involved
 equipment must be restricted to crossing at these localions only. It is the responsibility of the excavator/constructor to inform their personnel of the
Gas plants shall be protected from possible damage at crossing locations at all times. The protection can be provided by constructing berms over the staked lines unless minimum cover of twice the pipe diameter or 1.0 m
Equipment shall be operated at "dead slow " speeds when crossing pipelines to minimize impact loading.

| (Occupational Health and Safety Act |  |
| :---: | :---: |
| And Regulations for Construction Projects) |  |
| (1) | For the purposes of this Part, soil shall be classified as Type 1, 2, 3, or 4 in accordance with the descriptions set out in this section. |
| (2) | Type 1 Soil |
|  | a) is hard, very dense and only able to be penetrated with difficulty by a small sharp object; <br> b) has a low natural moisture content and a high degree of internal strength; <br> c) has no signs of water seepage; and <br> d) can be excavated only by mechanical equipment. |
| (3) | Type 2 Soil |
|  | a) is very stiff, dense and can be penetrated with moderate difficulty by a small sharp object; <br> b) has a low to medium natural moisture content and a medium degree of internal strength; and <br> c) has a damp appearance after it is excavated. |
| (4) | Type 3 Soil |
|  | a) is stiff to firm and compact to loose in consistency or is previously excavated soil; <br> b) exhibits signs of surface cracking; <br> c) exhibits signs of water seepage; <br> d) if it is dry, may run easily into a well-defined conical pile; and <br> e) has a low degree of internal strength. |
| (5) | Type 4 Soil |
|  | a) is soft to very soft and very loose in consistency, very sensitive and upon disturbance is significantly reduced in natural strength; <br> b) runs easily or flows, unless it is completely supported before excavating procedures; <br> c) has almost no internal strength; <br> d) is wet or muddy, and <br> e) exerts substantial fluid pressure on its supporting system. |

### 2.0 GENERAL REQUIREMENTS

## WORK IN THE VICINITY OF GAS PIPELINES

All work in the vicinity of gas pipelines must be approved by Enbridge Gas
Distribution (the "Company").
All work within 30.0 metres of an NEB operated pipeline right-of-way must have the approval from Enbridge. This is a requirement of all NEB pipelines, which are under the jurisdiction of the National Energy Board, and follows the NEB Pipeline Crossing Regulations.

A stake out of the gas pipeline must be requested prior to any Construction. Call Ontario One Call at 1-800-400-2255 or 905-709-1717 at least 48 hours in advance of the proposed work.

Mechanical equipment shall not be operated within 0.3 m of the pipeline. Hand Excavation shall be performed when locating and digging within 0.3 m of the pipeline.

Mechanical excavation is not permitted within 3.0 m of the NEB or Vital pipelines
without the approval of Enbridge.
Hand held compaction equipment shall be used within 1.0 m of the sides or top of all gas pipelines.

Spoil from excavation shall not be piled on the gas pipeline. This blocks access to the gas pipeline in the event that maintenance or operations activities are required on the pipeline.

The gas pipeline must be inspected for damage before backfilling the excavation.
It is the excavator's responsibility, under Section 18 and 19 of the Energy Act to ensure the gas pipeline(s) is not undermined or endangered in any way.

## SUPPORT OF PIPELINES REQUIRED AT ALL TIMES

It is the responsibility of the Contractor to ensure that existing underground plant is properly supported.

Precautions must be taken to support underground plant at all times and to
 constituting a hazard to persons and property.

When excavation is necessary over, under, near or parallel to underground Gas plant, the support is the responsibility of the excavator. The methods of support

Third Party Requirements in the Vicinity of Natural Gas Facilities
vary from case to case depending on the characteristics of the excavation,
adjacent soil and the pipeline material. Failure to provide proper support will
render the excavator responsible for all consequential damage or loss. (Refer to
Section 3.0, Support of Gas Pipelines, for details on supporting the gas
pipeline.)
2.3 ENCROACHMENT
Permanent awnings and roof structures are prohibited above gas pipelines within
the public right-of-way, or within the Company's right-of-way. Enbridge Gas
Distribution will not accept responsibility for any damages to the encroaching
structure within the public right-of-way, or within the Company's right-of-way, if it
is necessary for the maintenance or operation of the existing underground plant
or to install new underground facilities in the future.
TREE PLANTING
For pipelines regulated by the NEB and Vital Mains (identified as critical
pipelines), trees or large shrubs must have a minimum lateral clearance between
the edge of the root ball or open bottom container and adjacent edge of the
existing pipeline of not less than 2.5 m (8 feet).
For all other pipelines, a minimum clearance of 1.2 m ( 4 feet) horizontally must
be maintained between the edge of the root ball or open bottom container and
adjacent edge of the existing gas pipeline
In cases where 1.2 m (4 feet) clearance cannot be maintained, a minimum
clearance of 0.6 m (2 feet) can be permitted provided a root deflector is installed
on the sides of the root ball adjacent to the gas pipeline.
Final location of the trees must be confirmed with Enbridge Gas Distribution to
avoid interference with the existing gas pipelines.
Root Deflectors
A root deflector is a mechanical barrier placed between tree roots and pipelines
to prevent damage to the pipelines. A root deflector can be made from $1 / 4-$ inch
rigid plastic, fiberglass or a non-degradable material. As the root tip of a tree
travels out from the root ball the tip will contact the barrier, unable to penetrate to
the barrier, the root will turn.
Root deflectors must be installed 0.6 meters (2 feet) from the pipeline on the side
of the tree facing the pipeline and must extend 1.2 meters ( 4 feet) from the center
of the tree trunk, parallel to the pipeline, at both directions; or the deflector must
circle the tree.

Third Party Requirements in the Vicinity of Natural Gas Facilities URABTDGE

[^1]
MINIMUM CLEARANCE FROM OTHER STRUCTURES
The following clearances must be maintained between the outside wall of the gas
pipeline and other underground structures:
Horizontal - 0.6 m minimum
Vertical - 0.3 m minimum
Vertical - 0.6 m minimum for pipelines 16 inches in diameter and larger

Excavations for permanent structures (i.e. pools, root cellars, septic tanks etc.)
must be at least 10.0 m from the limit of the existing right-of-way of the NEB pipeline.

Any work performed within 30.0 meters of an NEB pipeline right-of-way must be approved by Enbridge.

|  | Location | Minimum <br> cover (m) |
| :--- | :--- | :---: |
| Mains | Below traveled surfaces (roads), Road Crossings, General, Rights- <br> of-way (roads) | $1.2 / 0.9^{*}$ |
|  | Water crossings | 1.5 |
|  | Controlled Access Highways crossings, Below base of rails (cased) | 1.7 |
|  | Rights-of-way (railroads), Drainage, Irrigation Ditches | 1.0 |
|  |  |  |
| Services | Private property | 0.3 |
|  | Streets and Roads | 0.45 |
|  | Wet Gas Areas @ Main/Building | $1.2 / 0.9$ |
| *1.2m is required for Transmission Lines 0.9m is required for Distribution Lines |  |  |

2.7 POINTS OF THRUST

Precautions must be taken when working in the immediate vicinity of points of thrust. Points of thrust occur at pipeline fittings such as Elbows ( $45^{\circ}$ or $90^{\circ}$ ), End
Caps, Weld Tees, Reducer Couplings and closed Valves. In the event that the excavation involves exposing a point of thrust, or exposing an area near a point
of thrust, specific instructions provided by the Company must be followed.
Failure to follow these instructions can result in significant harm to persons and property.

### 2.8 REPAIR OF DAMAGED PIPE AND PIPE COATING

In all cases where the pipe or the pipe coating is damaged by the construction
operation, contact the Company immediately and leave the excavation open until Company personnel have made the necessary repairs.
2.9 BLASTING, PILE DRIVING OR COMPACTION

Blasting, Pile Driving, or Compaction activities in the vicinity of natural gas pipelines requires the prior approval by the owner of the pipeline.
(TSSA Act 2001).

No operations shall be permitted within a standoff distance of 1.5 meters from Distribution.

Auguring of the soil up to the base of the pipeline may be required in order to
avoid deviation of the piles within a distance of 1.5 m from the pipeline.
All operations must comply with the Provincial Occupational Health and
Safety Act and Regulations for Construction Projects as well as all applicable
Company specifications, standards and guidelines.
Leak surveys (flame ionization) shall be conducted at any time following the higher vibration intensities or displacements notwithstanding any delays or costs incurred by the contractor or authority responsible for the proposed work.

## POST PILING OR COMPACTION OPERATIONS

A summary of all operations including pile driving and compaction logs,



On completion of the daily operations, and approximately 30 days after the end of the operations, Enbridge Gas Distribution shall conduct a leak survey (flame ionization) of the pipeline. The resulting damages will be repaired at
the expense of the Contractor responsible for the proposed work.
 of seismographs, is mandatory. The seismographs shall be the portable types with the capability of producing on site printouts. This control will confirm the
 regular basis or at the request of Enbridge Gas Distribution.
Should a situation with low energy compaction operations with a soil cover of less than 1.5 meters above the pipeline at a stand-off distance of 3 meters or less from a pipeline be encountered, Enbridge Gas Distribution may require
In addition, if a Type 3 soil (refer to Section 5.6 Soil Types, page 30) is present on site, Enbridge Gas Distribution may, again, require the opinion of
an independent Engineer.

For the start of the construction operations, the equipment and method used for pile driving shall comply with the guidelines presented in Figure 2, page 28 , and Table 6, page 29 , which identify the maximum vibration guidelines can be replaced by actual vibration testing (portable seismograph) | 9 |
| :---: |
| $\frac{9}{6}$ |

The Peak Particle Velocity (PPV) measured on the pipeline, or at the closest point of the related structure with respect to the work, shall not exceed $50 \mathrm{~mm} / \mathrm{s}$. Furthermore, the maximum displacement for the vertical and/or shall not exceed 50 mm at any given length of the pipeline in question.
For all operations, if the Peak Particle Velocity (PPV) and/or the displacement limit are surpassed, all operations must stop notwithstanding any delays or Gas Distribution will require that the cause of these higher vibrations or displacement be investigated. The operations shall resume only when the cause and remedy are established and with the approval of Enbridge Gas
Distribution's Engineering Department.
Should any subsequent recordings indicate vibration intensities or displacements above the prescribed limits all operations shall immediately stop. Enbridge Gas Distribution shall require that the work be carried out
according to methods it judges to be acceptable to the integrity of the pipeline according to methods it judges to be acceptable to the integrity of the pipeline
or related structure notwithstanding any delays or costs incurred by the Contractor responsible for the proposed work.


vMBRIDCE Enbridge Gas Distribution shall be responsible for isolating the area of the
pipeline in the direct vicinity of the operations as required. The Contractor will be responsible for all Company costs during piling operations.
In the event a third party is affected as a result of the pile driving and/or compaction operations, all expenses associated therewith incurred by
Enbridge Gas Distribution shall also be at the Contractor's expense.

## GUIDELINE FOR PILE DRIVING OR COMPACTION

The information provided in this section is to be viewed as a guideline only | 8 |
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| 0 | by the piling and/or compaction operations. The contractor is responsible for ensuring that all pile driving and/or compaction work is performed in a good and workmanlike manner in accordance with all applicable laws, codes, by-

aws and regulations.
Prior to pile driving and/or compaction work, a site meeting shall be arranged with an authorized representative of the Contractor and an Enbridge Gas Distribution representative to confirm details of the location of Company
acilities and the proposed work.
The pipeline should not be excavated prior to the piling or compaction
operation. If the particular situation warrants the excavation of the pipeline, Procedures.
If in the assessment of Enbridge Gas Distribution, the soil cover is deemed to be insufficient, Enbridge Gas Distribution shall require that a protective ramp
 to pass over a pipeline without the authorization of a Company representative.

[^2][^3]Third Party Requirements in the Vicinity of Natural Gas Facilities

- If required, a technical report with appropriate analysis and
prediction of the vibration levels according to the opinion of an
independent Engineer specialized in vibration control and analysis;
- A clause stating that the work will be carried out by qualified
personnel with appropriate experienced supervision;
A clause stating that all vibration testing results, or other
preventative control testing, will be submitted to Enbridge Gas
Distribution on a regular basis, or upon request.

To help with the preparation of the written request, locates to determine the
location of the pipeline can be requested by calling "Ontario One Call" listed in
Regional Contact List on Appendix A, and appropriate markups of drawings
can be obtained by contacting "Distribution Planning" listed in Regional
Contact List on Appendix A.
EVALUATION BY ENBRIDGE GAS DISTRIBUTION
Enbridge Gas Distribution shall conduct a record search on the natural gas
facilities in the vicinity of the proposed work to identify their materials, location and maintenance history.

Enbridge Gas Distribution shall assess the impact of the proposed operation on the pipeline or related facility versus the stand-off distance. If it is detrimental, the Contractor must retain the services of an independent Engineer. This Engineer must be specialized in vibration control, analysis and soil movement in order to evaluate and validate the proposed method of
work and operation.

Enbridge Gas Distribution shall conduct leak surveys (flame ionization unit) of the pipelines and other related natural gas facilities prior, during and after the start of work. Leak surveys shall be conducted at any time during the project
notwithstanding any delays or costs incurred by the Contractor responsible for proposed work.

Enbridge Gas Distribution shall prepare a contingency plan in case the isolation of the line or shut down of the related facility becomes necessary.
 notwithstanding any delays or costs incurred by the Contractor responsible for proposed work.

Enbridge Gas Distribution shall locate all control valves within the vicinity of
the approved location and check all valves involved in the contingency plan to ensure accessibility and proper operability.


| Table No. 3 <br> Support Beam Sizes <br> Given: max. span between Beam Supports |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pipe Size (NPS) | Steel |  | PE |  | Cast Iron |  |
|  | $\leq 2 \mathrm{~m}$ | $\leq 4.5 \mathrm{~m}$ | $\leq 2 \mathrm{~m}$ | $\leq 4.5 \mathrm{~m}$ | $\leq 2 \mathrm{~m}$ | $\leq 4.5 \mathrm{~m}$ |
| 1/2-2 | Nil | $4 \times 6$ | $4 \times 4$ | $4 \times 6$ | $4 \times 4$ | $6 \times 8$ |
| 3-6 | Nil | Nil | $4 \times 4$ | $6 \times 6$ | $4 \times 4$ | $8 \times 8$ |
| 8-12 | Nil | Nil | $4 \times 4$ | $8 \times 8$ | $6 \times 6$ | $10 \times 10$ |
| 16-24 | Nil | Nil | Nil | Nil | $8 \times 8$ | $12 \times 12$ |

The beam shall be placed above the pipeline with the ends of the beam resting on firm undisturbed soil. The beam shall not bear directly on the gas pipeline.
The pipeline shall be supported from the beam with rope, chain or equivalent in a manner that will prevent damage to the pipeline and pipeline coating, and eliminate sag. The spacing between the rope, canvas sling or equivalent, shall not exceed 1.0 m (see Drawing No. 1, page 15, for details).

Backfill material underneath the exposed pipeline shall be compacted to a level 150 mm above and below the pipeline. Perform compaction with the loose lift height not exceeding 200 mm or one-quarter of the trench width, whichever is less. Injecting water into the backfill beneath the pipeline is not an acceptable method of compaction.

Mechanical equipment shall not be operated within 0.3 m of the pipeline. Hand Excavation shall be performed when locating and digging within 0.3 m of the sides or top of all gas pipelines.

### 3.3.2 Cast Iron Pipelines

Any cast iron pipeline NPS 8 or less which is completely exposed crossing a trench for a length greater than 1.0 m must either be replaced or temporarily suppored and proped backiled. Any cast iron pipeline NFS 12 or grealy

 the two $45^{\circ}$ lines projected upward from the trench bottom (see Drawing No. 3, page 16, for details).

If the pipeline is to be temporarily supported, the spacing of the rope, canvas If the pipeline is to be temporarily supported, the spacing of the rope, canvas
sling or equivalent, shall be a maximum of 1.0 m . Any exposed joint shall be supported by canvas sling or rope at either side of the joint and at 1.0 m spacings along the pipeline's length (see Drawing No. 1, page 15, for details).
3.3.3 Steel and Polyethylene Pipelines

All steel and polyethylene pipelines exposed to a length greater than indicated in Drawing No. 2, page 15, and as outlined in Section 3.3.1, Temporary Support. NOTE: All temporary support on polyethylene pipes must be removed prior to permanent backfill. Adequate support shall remain in place until the backfill
material has restored support.

## 

### 3.4.1 General

Two cases exist for pipelines parallel to an excavation;
i) trench $<1.2 \mathrm{~m}$ deep,
ii) trench $\geq 1.2 \mathrm{~m}$ deep. provide direct support.

Trench wall support is not required for excavations provided the pipeline meets the following criteria:
depth is less than 1.2 metres,
the pipeline is at least 0.6 metres from the edge of excavation or is outside the shaded area as indicated in Drawing No. 2 and, - soil is stable (TYPE 1or 2, refer to Soil Types, page 30)


PILE DRIVING OR COMPACTION REQUIREMENTS

## POLICY

Prior to any pile driving or compaction operations within the vicinity of a gas pipeline, the potential damage to Enbridge Gas Distribution plant will be

 the proposed work.

If, in the opinion of Enbridge Gas Distribution, the particular pile driving or compaction operation cannot be carried out without affecting the pipeline or
facility integrity, the following alternatives, or contingencies, may be facility integrity, the following alternatives, or contingencies, may be
a review of the particular situation by an independent consultant including a risk analysis and a prevention program;

- change in the construction methods;
- replacement or relocation of the pipeline/facility.

All costs incurred will be covered by the Contractor undertaking the proposed work with final approval being granted by Enbridge Gas Distribution PILE DRIVING OR COMPACTION APPLICATION

The application must include the following information:

- Name of project owner, general contractor and relevant sub-trades; - A copy of the permits, certificates or other forms required by
municipal bylaws;
- Name of design engineer and a copy of plans issued for construction with detailed drawings identifying all affected natura
gas facilities;

The type of piles and equipment used; including the methods of control to prevent the deviation of the piles; Geo-technical reports and other pertinent information;

A copy of the location of other public utilities such as telephone, cable TV, sewer and water mains, electrical services, etc.;

Third Party Requirements in the Vicinity of Natural Gas Facilities


Trench wall support is required for excavations if one of the following
conditions exists:


NOTE: Adequate support shall remain in place until the backfill material has
restored support.
Table No. 3 gives minimum distances from the edge of the trench to the pipeline in which the excavation influences pipelines for the given soil types.



NOTE: BEAM SHALL EXTEND TO 1.0 m BEYOND THE SIDE OF THE TRENCH ON PROPOSED EXCAVATION WHICHEVFR IS GREATER.

GROUND WATER MONITORING
Where there is a potential for damage to nearby wells, the blaster shall conduct an evaluation designed and implemented to minimize adverse impacts on potentially affected wells. Generally, all water wells within 100 meters of proposed blasting locations should be monitored for quality and quantity prior to
construction.

Blasting in a watercourse requires Department of Fisheries and Oceans (DFO)
authorization authorization.

### 4.5 GUIDELINES FOR BLASTING

The information provided in this section is not to be construed as an exhaustive list of performance specifications, but rather a guide for conducting blasting in the vicinity of Enbridge Gas Distribution pipelines. The applicant is responsible for accordance with all applicable laws, codes, by-laws, and regulations.

The contractor shall be liable for and indemnify Enbridge Gas Distribution in relation to any and all damage directly or indirectly caused or arising as a result of blasting operations carried out by the applicant, its employees, contractors or
those for whom the applicant is responsible at law.

Prior to blasting operations, a site meeting shall be arranged with an authorized representative of the applicant and an Enbridge Gas Distribution representative to confirm details of the location of Company facilities and the proposed blast.

Enbridge Gas Distribution pipelines shall not be excavated prior to blasting. If excavation is unavoidable, then the pipeline shall be properly supported booklet. The applicant shall take suitable precautions to protect the exposed
 Explosives shall be of a type that will not propagate between holes nor desensitize due to compression pressures. No explosives shall be left in the drill hole overnight.

For surface blasts located at distances of 10 meters or less from a pipeline and when the excavation of the first blast hole has attained a depth equal to the top of the buried natural gas pipeline, the vertical depth of subsequent blast holes shall natural gas pipeline. The required independent blasting consultants' report shall specifically address the impact of these conditions. This condition is not
applicable for tunnel blasting operations.

Horizontal stand-off distances for surface blasting and directs stand-off distances for tunnel blasting of less than 3 meters are not permitted.

Third Party Requirements in the Vicinity of Natural Gas Facilities

DWG NO. 3: Influence Lines for Gas Pipelines Adjacent to Excavations


NOTE: IF PIPE IS LOCATED IN THE SHADED AREA, IF SOIL IS UNSTABLE (TYPE 3 or 4),
Third Party Requirements in the Vicinity of Natural Gas Facilities

EVALUATION BY ENBRIDGE GAS DISTRIBUTION
Enbridge Gas Distribution will conduct a record search on the facilities in the vicinity of the blast to determine the material, location and maintenance history.

Enbridge Gas Distribution will evaluate the impact of the blast on the facilities, assessing the charge weight to be detonated in relation to the stand off distance. If, in the opinion of Enbridge Gas Distribution, a hazardous condition may resif. in writing. The applicant shall not commence operations and shall retain the services of an independent blasting consultant to evaluate and validate the


Enbridge Gas Distribution shall conduct a leak survey (flame ionization unit) of 'бu หeə
to
Enbridge Gas Distribution shall prepare a contingency plan to respond in the event that isolation of the pipeline becomes necessary. Blasting operations implemented and the applicant has received written notification of it.

Enbridge Gas Distribution shall locate all control valves within the vicinity of the approved blast area. Check all valves involved in the contingency plan to ensure accessibility and proper operability.

In the event a third party is affected as a result of the blasting operations, all
expenses associated therewith incurred by Enbridge Gas Distribution shall also be at the applicant's expense
BLASTING REQUIREMENTS
POLICY
Prior to any blasting operation in the vicinity of a gas pipeline, the hazard to
Enbridge Gas Distribution Inc. plant will be evaluated to ensure the uninterrupted operation and long-term safety of its underground facilities. Responsibility for the design of the blast and any resultant damage is born entirely by the party using the explosives.
A recognized independent blasting consultant shall be retained at the applicants' expense to evaluate and validate the risks for blasting under any of the following
conditions:
a) Explosive charge weight per delay in Table 5, page 22, is exceeded.
b) Blasting requirements less than 3 meters from Company facilities.
c) Blasting in the vicinity of cast iron and wrought iron pipelines.
d) Any tunnel blasting operation in the vicinity of Company facilities.

 the pipeline and subsequent blast hole depths are greater than one half the horizontal distance to the closest portion of the pipeline.
f) Any time if in the opinion of Enbridge Gas Distribution Inc., it is felt the integrity of Company facilities may be affected by the blast.
The Independent Blasting Consultant shall be a Registered Professional
 blasting.
A copy of the consultant's report shall be forwarded to Enbridge Gas Distribution
Inc. Engineering Department for review.
If in the opinion of Enbridge Gas Distribution Inc. or an independent blasting consultant, blasting cannot be carried out without affecting the facility's integrity, alternatives shall be considered, including the replacement or relocation of the
affected facility at the applicants' expense. In these situations, additional time must be allowed to obtain the necessary permits and to complete the necessary construction work.

Noss, Melissa

| From: | Keen, Stephen |
| :--- | :--- |
| Sent: | Wednesday, May 25, 2011 4:08 PM |
| To: | Baudais, Nathalie |
| Cc: | Sparham, Richard |
| Subject: | FW: EGD 102010 - Class Environmental Assessment - Hwy 50-Castlemore Rd to Rutherford |
|  | Rd |

fyi

From: Diana Beaulne [mailto:Diana.Beaulne@enbridge.com]
Sent: Wednesday, May 25, 2011 3:12 PM
To: Keen, Stephen
Subject: EGD 102010 - Class Environmental Assessment - Hwy 50 - Castlemore Rd to Rutherford Rd

Thank you for your letter informing us of your future planned work. Enbridge has buried plant in numerous locations throughout your planned work area. Currently the scope of your project is too general to determine if a conflict exists. During the engineering design of your project please send us copies of your plans per normal procedure so we may review.

Kind Regards,

Diana Beaulne
Right of Way Approval Technician
Enbridge Gas Distribution Inc.
Distrubution Planning $4^{\text {th }}$ Floor
500 Consumers Rd
North York, ON.
M2J 1P8
markups@enbridge.com
Tel: 416-495-5160
FAX: 416-758-4373



| From: | Edgar Henriquez [Edgar.Henriquez@rci.rogers.com] |
| :--- | :--- |
| Sent: | Friday, August 13, 2010 9:19 AM |
| To: | Lamontagne, Larry |
| Subject: | RE: HWY 50 Rogers Utility Markup Request |
| Attachments: | M103726_Hwy 50 from Mayfield Rd to Rutherford Rd_HDR iTRANS.dwg; ATT00001..txt |
|  |  |
| Follow Up Flag: | Follow up |
| Flag Status: | Completed |

Hi Larry,
Please find attached the mark-up drawing for the area under your study.
Rogers has aerial fiber TV plant in this area.
Rogers File M103726
Thanks

## Edgar Henriquez

Mark-up Coordinator GTAW
OPE - GTA West
Rogers Cable System Inc
3573 Wolfedale Road
Mississauga, On. L5C 3T6
Tel: 9058976457
Fax: 9052735233
------Original Message-----
From: Lamontagne, Larry [mailto:Laurent.Lamontagne@hdrinc.com]
Sent: Wednesday, May 19, 2010 10:37 AM
To: Edgar Henriquez
Cc: Keen, Stephen; Glofcheskie, Chris
Subject: HWY 50 Rogers Utility Markup Request
Hi Edgar
As per our conversation today please find attached the AutoCadd file of our EA study limits. Please markup all existing and future Rogers Cable plant.

Study limits:

- Hwy 50 (Mayfield Road to Rutherford Road)
- Mayfield Road (Hwy 50 to Coleraine Drive)

Could you please let me know the turnaround time for my request.
If you have any questions regarding my request please don't hesitate to contact me.
Thank you

## Larry Lamontagne. Dipl.T.

Transportation Designer
HDR | iTRANS
100 York Boulevard, Suite 300 | Richmond Hill, ON | L4B 1J8
Phone: $905.882 .4100 \times 5348$ | Fax: 905.882 .1557 | Email: llamontagne@itransconsulting.com
www.hdrinc.com
www.itransconsulting.com


## Noss, Melissa

| From: | Utility Circulations [Utility.Circulations@mtsallstream.com] |
| :--- | :--- |
| Sent: | Tuesday, May 25, 2010 10:03 AM |
| To: | Lamontagne, Larry |
| Subject: | RE: HWY 50 Allstream Utility Markup Request |
|  |  |
| Follow Up Flag: | Follow up |
| Flag Status: | Flagged |

Good morning Larry,
Allstream has no existing plant in the area indicated in your submission. No mark-up \& no objection.
Regards,
Utility Circulations
Utility.Circulations@mtsallstream.com

From: Lamontagne, Larry [mailto:Laurent.Lamontagne@hdrinc.com]
Sent: Wednesday, May 19, 2010 11:00 AM
To: Utility Circulations
Cc: Keen, Stephen; Glofcheskie, Chris
Subject: HWY 50 Allstream Utility Markup Request
Please find attached an AutoCadd file of our EA study limits. Please markup all existing and future Allstream plant.
Study limits:

- Hwy 50 (Mayfield Road to Rutherford Road)
- Mayfield Road (Hwy 50 to Coleraine Drive)

Could you please let me know the turnaround time for my request.
If you have any questions regarding my request please don't hesitate to contact me.
Thank you

Larry Lamontagne. Dipl.T.
Transportation Designer

## HDR | iTRANS

100 York Boulevard, Suite 300 | Richmond Hill, ON | L4B 1J8
Phone: 905.882.4100 x 5348 | Fax: 905.882.1557 | Email: |lamontagne@itransconsulting.com
www.hdrinc.com
www.itransconsulting.com

| From: | Keen, Stephen |
| :--- | :--- |
| Sent: | Monday, June 14, 2010 10:30 AM |
| To: | McLaughlin, Barry |
| Subject: | FW: Highway 50 and Mayfield Road Improvements Class EA |
| Follow Up Flag: | Follow up |
| Flag Status: | Completed |

From: Zia, Solmaz [mailto:Solmaz.Zia@peelregion.ca]
Sent: Thursday, June 10, 2010 2:55 PM
To: Keen, Stephen
Subject: FW: Highway 50 and Mayfield Road Improvements Class EA
Steve,
fyi

Solmaz Zia, P.Eng.
Project Manager
Transportation Program Planning
Public Works, Region of Peel
Tel: (905) 791-7800 ext. 7845
Solmaz.Zia@peelregion.ca

From: Jennifer.Long@HydroOne.com [mailto:Jennifer.Long@HydroOne.com]
Sent: June 4, 2010 9:17 AM
To: Zia, Solmaz
Cc: ierullo@HydroOne.com
Subject: Highway 50 and Mayfield Road Improvements Class EA
Dear Ms. Zia,

In our initial review, we can confirm that there are no Hydro One Transmission Facilities in the subject area. Please find our response form in the attachment.

Please be advised that this is only a preliminary assessment based on current information. No further consultation with Hydro One Networks Inc. is required if no changes are made to the current information.

If you have any further questions or concerns, please feel free to contact me.
Regards,

## Jen Long

Transmission Lines Sustainment
System Investment, Asset Management
Hydro One Networks Inc.
Tel: 416-345-4421
Jennifer.Long@HydroOne.com

Hydro One Networks Inc.
West Central Zone 2
40 Olympic Drive
Box 585
Dundas, On
L9H 7P5
Attn, Scheduling
Re: Highway 50 from Castlemore Road/Rutherford Road to Mayfield Road/Albion Vaughan Road, and Mayfield Road from Hwy 50 to Coleraine Drive in the City of Brampton, City of Vaughan and Town of Caledon, Region of Peel and Region of York

Dear Sir / Madam,
The Region of Peel along with York Region is undertaking a Class C Environmental Assessment (EA) Study for the above noted project.

Please be advised that HDR/ iTrans is undertaking the EA including the preliminary design on behalf of the Municipalities of Peel and York for the identification of utility relocations involved with this project.

As per the EA recommendation, widening of Highway 50 and Mayfield Road to 6 and 4 lanes respectively is proposed which requires a number of Hydro poles relocation.

We are at the third phase of the EA and the preliminary design for the noted corridor has been developed. We will mail 1 set of our preliminary design drawings under separate cover. Please review them and provide us with the existing plants along the noted road and your future plans for this corridor.

We request that you provide us with a preliminary estimate for the proposed relocation.
We would like to offer a meeting with you to review the conceptual relocation requirements. Please advise when your staff is available to meet with us.

The anticipated detailed design schedule is summer 2011 and utility relocation is 2015.
Your co-operation in providing the information required is anticipated and appreciated.
If you have any questions, do not hesitate to contact the undersigned.

## Public Works

9445 Airport Road, $3{ }^{\text {rd }}$ Floor, Brampton, ON. L6S 4J3
Telephone: 905-791-7800 / www.peelregion.ca

Regards,
Solnz ia
Solmaz Zia, P.Eng.
Project Manager
Transportation Program Planning
Public Works, Region of Peel
Tel: (905) 791-7800 ext. 7845
Fax: 905-791-1442
Solmaz.Zia@peelregion.ca

## CC: Edward Chiu, York Region

 Steve Keen, HDR/iTrans
## Public Works

9445 Airport Road., ${ }^{\text {rd }}$ Floor, Brampton, ON. L6S 4J3
Telephone: 905-791-7800 / www.peelregion.ca

March 15, 2011
Project No. 09-4390
Hydro One Networks Inc.
West Central Zone 2
40 Olympic Drive
Box 585
Dundas, On
L9H 7P5
Attn, Scheduling
Re: Highway 50 from Castlemore Road/Rutherford Road to Mayfield Road/Albion Vaughan Road, and Mayfield Road from Hwy 50 to Coleraine Drive in the City of Brampton, City of Vaughan and Town of Caledon, Region of Peel and Region of York

Dear Sir / Madam,
We provided, under separate cover, 1 set of plans of the above described work project, with existing utilities and anticipated conflicts based on our initial preliminary design review.

Please examine the noted plans for corrections or omissions, and conflicts with proposed construction. We also request to plot your proposed relocation and return sets of plans to Steve Keen's attention at HDR|iTrans office (144 Front Street W, Suite 655, Toronto, ON, M5H 2L7) giving existing and proposed depth of plant, where applicable.

Include in your submission, a preliminary cost estimate in order that we may establish a cost effective relocation strategy. It is anticipated the utility relocation to take place by 2014/2015.

Hydro One Brampton is notified of the utility relocation requirement.
Regards,


Solmaz Ria, P.Eng.
Project Manager, Transportation Division

CC: Edward Chiu, York Region<br>Steve Keen, HDR|iTrans<br>Richard Sparham, Peel Region

## Public Works

9445 Airport Road, $3{ }^{\text {rd }}$ Floor, Brampton, ON. L6S 4J3
Telephone: 905-791-7800 / www.peelregion.ca

| From: | barbara.kolodziej@HydroOne.com |
| :--- | :--- |
| Sent: | Wednesday, May 19, 2010 3:14 PM |
| To: | Lamontagne, Larry |
| Cc: | Rebeca.Fu@HydroOne.com; ian.mitchell@HydroOne.com |
| Subject: | FW: HWY 50 Hydro One Utility Markup Request |
| Attachments: | Castlemore - Hwy50-9HO05007P.dwg |
| Importance: | High |

Hello Larry,
Please find attached DWG file. Hydro One Telecom has fiber optic cable only between Rutherford Rd \& Old Castlemore
Rd on the East side of Hwy 50, then crossing to Old Castlemore Rd on the South side of the road. At the intersection is $\mathrm{U} / \mathrm{G}$ fiber, otherwise Aerial. Look only at pages 12 to 15 , which include this area.

Regards,
Barbara Kolodziej
Outside Plant Engineering
Hydro One Telecom
Tel: 416-240-6842
Fax: 416-240-6790

From: MITCHELL Ian
Sent: Wednesday, May 19, 2010 2:46 PM
To: HOT OUTSIDE PLANT
Subject: FW: HWY 50 Hydro One Utility Markup Request
Importance: High
Barbara/Rebecca,
Can you please review these drawings and mark up where our facilities are and send back to Larry by end of next week.
Thank you,
Ian Mitchell
Outside Plant Manager
Hydro One Telecom Inc.
P. 416-240-6701
F. 416-240-6790
C. 647-287-3007
ian.mitchell@hydroone.com
From: Lamontagne, Larry [mailto:Laurent.Lamontagne@hdrinc.com]
Sent: Wednesday, May 19, 2010 2:29 PM
To: MITCHELL Ian
Cc: Keen, Stephen; Glofcheskie, Chris
Subject: RE: HWY 50 Hydro One Utility Markup Request
Hi lan

Thank you for the quick response.
Please find attached the DWG file showing the EA corridor and study limits for Hwy 50 and Mayfield Road. Please markup all existing and future Hydro One Utility plant.

Study limits:

- Hwy 50 (Mayfield Road to Rutherford Road)
- Mayfield Road (Hwy 50 to Coleraine Drive)

Could you please let me know the turnaround time for my request.
If you have any questions regarding my request please don't hesitate to contact me.
Thank you

Larry Lamontagne. Dipl.T.
Transportation Designer

## HDR | iTRANS

100 York Boulevard, Suite 300 | Richmond Hill, ON | L4B 1J8
Phone: $905.882 .4100 \times 5348$ | Fax: 905.882 .1557 | Email: llamontagne@itransconsulting.com
www.hdrinc.com
www.itransconsulting.com

From: ian.mitchell@HydroOne.com [mailto:ian.mitchell@HydroOne.com]
Sent: Wednesday, May 19, 2010 12:48 PM
To: Lamontagne, Larry
Cc: Keen, Stephen; Glofcheskie, Chris
Subject: RE: HWY 50 Hydro One Utility Markup Request
Larry,
I am the contact for Hydro One Telecom and I would prefer all drawings sent in DWG but we can work with PDF or ZIP as well. If it's the electrical distribution information you are looking for then you need to contact Hydro One Brampton. I have provided Dave Robinson's information, if he is not the right person he will pass you on to who is.

```
D.Robinson, E.Tech.
Hydro One Brampton Networks Inc.
175 Sandalwood Pkwy, West
Brampton, ON
L7A 1E8
    Engineering Technician
Tel: (905) 840-6300 ext. 3356
E-mail Address: drobinson@hydroonebrampton.com
```

Thank you,
Ian Mitchell
Outside Plant Manager
Hydro One Telecom Inc.
P. 416-240-6701
F. 416-240-6790
C. 647-287-3007
ian.mitchell@hydroone.com
From: Lamontagne, Larry [mailto:Laurent.Lamontagne@hdrinc.com]
Sent: Wednesday, May 19, 2010 11:14 AM
To: MITCHELL Ian
Cc: Keen, Stephen; Glofcheskie, Chris
Subject: HWY 50 Hydro One Utility Markup Request

Hi lan
I am following up on the message I left you today (May 19, 2010) regarding a Utility Markup plan request for Hwy 50 (Mayfield Rd. to Rutherford) showing Hydro One's existing and future plant.

Could you please let me know if you are the contact person for the markup plans or direct me to who may be in charge. Also, I will need to know what format you require the drawings (DWG, PDF...)

Thank you

## Larry Lamontagne. Dipl.T.

Transportation Designer
HDR | iTRANS
100 York Boulevard, Suite 300 | Richmond Hill, ON | L4B 1J8
Phone: $905.882 .4100 \times 5348$ | Fax: 905.882 .1557 | Email: Ilamontagne@itransconsulting.com
www.hdrinc.com
www.itransconsulting.com
















## Hydro One Telecom Inc.

65 Kelfield Street
Rexdale, Ontario M9W 5A3
www.HydroOne.com

August 10, 2011
Attn: Nathalie Baudais, P.Eng.
Project Coordinator
HDRliTRANS
100 York Blvd. Suite 300
Richmond Hill, ON L4B 1J8

RE: Notification of Potential Utility Impacts
Hwy 50, Castlemore Rd to Mayfield Rd
Mayfield Rd, Coleraine Dr to Hwy 50
Class Environmental Assessment Study
Hydro One Telecom has U/G fiber optic cable only at Castlemore Rd \& Hwy 50 intersection, as per attached plans. No future work is planned in this area.

Please contact the undersigned should you have any questions or need additional information with regard to this project.

Yours truly,

Barbara Mahon
PUCC Coordinator
Hydro One Telecom
Tel: 416-240-6842
Fax: 416-240-6790




| From: | Keen, Stephen |
| :--- | :--- |
| Sent: | Monday, June 14, 2010 10:30 AM |
| To: | McLaughlin, Barry |
| Subject: | FW: Highway 50 and Mayfield Road Improvements Class EA |
| Follow Up Flag: | Follow up |
| Flag Status: | Completed |

From: Zia, Solmaz [mailto:Solmaz.Zia@peelregion.ca]
Sent: Thursday, June 10, 2010 2:55 PM
To: Keen, Stephen
Subject: FW: Highway 50 and Mayfield Road Improvements Class EA
Steve,
fyi

Solmaz Zia, P.Eng.
Project Manager
Transportation Program Planning
Public Works, Region of Peel
Tel: (905) 791-7800 ext. 7845
Solmaz.Zia@peelregion.ca

From: Jennifer.Long@HydroOne.com [mailto:Jennifer.Long@HydroOne.com]
Sent: June 4, 2010 9:17 AM
To: Zia, Solmaz
Cc: ierullo@HydroOne.com
Subject: Highway 50 and Mayfield Road Improvements Class EA
Dear Ms. Zia,

In our initial review, we can confirm that there are no Hydro One Transmission Facilities in the subject area. Please find our response form in the attachment.

Please be advised that this is only a preliminary assessment based on current information. No further consultation with Hydro One Networks Inc. is required if no changes are made to the current information.

If you have any further questions or concerns, please feel free to contact me.
Regards,

## Jen Long

Transmission Lines Sustainment
System Investment, Asset Management
Hydro One Networks Inc.
Tel: 416-345-4421
Jennifer.Long@HydroOne.com

Hydro One Networks Inc.
West Central Zone 2
40 Olympic Drive
Box 585
Dundas, On
L9H 7P5
Attn, Scheduling
Re: Highway 50 from Castlemore Road/Rutherford Road to Mayfield Road/Albion Vaughan Road, and Mayfield Road from Hwy 50 to Coleraine Drive in the City of Brampton, City of Vaughan and Town of Caledon, Region of Peel and Region of York

Dear Sir / Madam,
The Region of Peel along with York Region is undertaking a Class C Environmental Assessment (EA) Study for the above noted project.

Please be advised that HDR/ iTrans is undertaking the EA including the preliminary design on behalf of the Municipalities of Peel and York for the identification of utility relocations involved with this project.

As per the EA recommendation, widening of Highway 50 and Mayfield Road to 6 and 4 lanes respectively is proposed which requires a number of Hydro poles relocation.

We are at the third phase of the EA and the preliminary design for the noted corridor has been developed. We will mail 1 set of our preliminary design drawings under separate cover. Please review them and provide us with the existing plants along the noted road and your future plans for this corridor.

We request that you provide us with a preliminary estimate for the proposed relocation.
We would like to offer a meeting with you to review the conceptual relocation requirements. Please advise when your staff is available to meet with us.

The anticipated detailed design schedule is summer 2011 and utility relocation is 2015.
Your co-operation in providing the information required is anticipated and appreciated.
If you have any questions, do not hesitate to contact the undersigned.

## Public Works

9445 Airport Road, $3{ }^{\text {rd }}$ Floor, Brampton, ON. L6S 4J3
Telephone: 905-791-7800 / www.peelregion.ca

Regards,
Solnz ia
Solmaz Zia, P.Eng.
Project Manager
Transportation Program Planning
Public Works, Region of Peel
Tel: (905) 791-7800 ext. 7845
Fax: 905-791-1442
Solmaz.Zia@peelregion.ca

## CC: Edward Chiu, York Region

 Steve Keen, HDR/iTrans
## Public Works

9445 Airport Road., ${ }^{\text {rd }}$ Floor, Brampton, ON. L6S 4J3
Telephone: 905-791-7800 / www.peelregion.ca

March 15, 2011
Hydro One Networks Inc.
West Central Zone 2
40 Olympic Drive
Box 585
Dundas, On
L9H 7P5
Attn, Scheduling
Re: Highway 50 from Castlemore Road/Rutherford Road to Mayfield Road/Albion Vaughan Road, and Mayfield Road from Hwy 50 to Coleraine Drive in the City of Brampton, City of Vaughan and Town of Caledon, Region of Peel and Region of York

Dear Sir / Madam,
We provided, under separate cover, 1 set of plans of the above described work project, with existing utilities and anticipated conflicts based on our initial preliminary design review.

Please examine the noted plans for corrections or omissions, and conflicts with proposed construction. We also request to plot your proposed relocation and return sets of plans to Steve Keen's attention at HDR|iTrans office (144 Front Street W, Suite 655, Toronto, ON, M5H 2L7) giving existing and proposed depth of plant, where applicable.

Include in your submission, a preliminary cost estimate in order that we may establish a cost effective relocation strategy. It is anticipated the utility relocation to take place by 2014/2015.

Hydro One Brampton is notified of the utility relocation requirement.
Regards,


Solmaz Zia, P.Eng.
Project Manager, Transportation Division

CC: Edward Chiu, York Region<br>Steve Keen, HDR|iTrans<br>Richard Sparham, Peel Region

[^4]From: Lamontagne, Larry
Sent: Monday, October 31, 2011 1:10 PM
To: Baudais, Nathalie
Cc:
Keen, Stephen
Subject:
FW: Hwy 50 / Mayfield Road Utility Conflict Plan

- Utility contact tacking log has been updated as per below.
- Still waiting on Hydro One Brampton for both Hwy 50 and Sandalwood plans. I will contract Emil and see when he will be delivering his design.


## LARRY LAMONTAGNE,

DIPL. T.
HDR Corporation
Sr. Transportation Designer

100 York Blvd., Suite 300 | Richmond Hill, ON L4B 1J8
$905.882 .4100 \times 5348$
larry.lamontagne@hdrinc.com $\mid \underline{\text { hdrinc.com }}$
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From: Telus Utility Markups [mailto:telusutilitymarkups@prestigetel.com]
Sent: Monday, October 31, 2011 12:11 PM
To: Lamontagne, Larry
Subject: RE: Hwy 50 / Mayfield Road Utility Conflict Plan
TELUS has no infrastructure along the proposed route or area within a radius of 2.0 m . Prestige File No. 27355453555.

Thanks \& Regards,
Prathibha Parameswaran
MOC CAD TECH
Prestige Telecom Inc.
200 Town Centre Blvd, Suite 300, Markham, Ontario L3R 8 G5
Ph: (905) 470-2112 Ext: 40257
Fax: (905) 470-8956
Email: telusutilitymarkups@prestigetel.com (TELUS MARKUPS )
Email: prathibha.parameswaran@prestigetel.com
Prestige Telecom
ServicingYour Network Votre réseau en tète
Man has infinite power within himself \& he can realise it - Swami Vivenkananda
From: Lamontagne, Larry [mailto:Laurent.Lamontagne@hdrinc.com]
Sent: Wednesday, October 12, 2011 2:11 PM
To: Telus Utility Markups
Cc: Baudais, Nathalie; Keen, Stephen
Subject: Hwy 50 / Mayfield Road Utility Conflict Plan

Telus Utility Markup Personel,
HDR requested utility conflict mark-up plans by letter and CD on July 29, 2011 for Hwy 50 and Mayfield Road and to this day we have not received the requested plans.

I have tried to contact Stephen Hoy but with no success.
I have attached PDF's of HDR's design for your reference.

Please advise on the status of our request.
Your immediate attention to this matter is greatly appreciated.
Thank you

LARRY LAMONTAGNE, DIPL. T.<br>HDR Corporation<br>Sr. Transportation Designer<br>100 York Blvd., Suite 300 | Richmond Hill, ON L4B 1J8 905.882.4100 x 5348<br>larry.lamontagne@hdrinc.com | hdrinc.com<br>Follow Us - Architizer | Facebook | Twitter | YouTube | Flickr


[^0]:    ### 1.0 DEFINITIONS

    Enbridge Gas Distribution Inc. or any of its representatives Local Distribution Company

    Any individual, partnership, corporation, public agency or other entity that dig, bore, trench, grade excavate or break ground with mechanical equipment or explosives in the
    vicinity of a gas pipeline or related facility. Defined as any Enbridge Gas Distribution Inc. Company Pipeline (main or service), regulator station or storage facility and their related components

    Any vertical or slightly slanted structural member introduced or constructed in the soil in order to transmit loads and forces from the superstructure to the subsoil; the retaining wall system

    > The placement of piles carried out by gravity hammer, vibratory hammer, auguring, pressing, screwing or any combinations of the above methods

    An operation involving the excavation of rock foundations highways or railroads, canals (trenches) for water supply or collection purposes.

    Operations involving the piercing of below ground (generally horizontal) opening in rock.

    The person or persons responsible for setting the charges and performing the blast.

    The owner of the proposed work
    Any vibration generating operation which will result in a
     ग!ueuरp до э!lets өq

    A Professional Engineer who is registered as a member of the Professional Engineers of Ontario (PEO) and a holder
    of Certificate of Authorization (C of A) Activities associated with excavation, blasting, piling or compaction

    A horizontal distance of 30 meters, or less, from any
    Enbridge Gas Distribution Inc. natural gas facility (aboveEnbridge Gas Distribution Inc. natural gas facility (above-
    ground or below-ground)
    Terms used in the following Guideline are defined as follows unless otherwise specified: Company

    Contractor or Contractor or
    Excavator
    Facility
    Pile
    Pile Driving
    Surface
    Blasting
    Tunnel
    Blasting
    Blaster Contractor or
    Excavator
    File
    Pility
    Pile Driving
    Surface
    Blasting
    Tunnel
    Blasting

    Blaster | Excavator |
    | :--- |
    | Facility |
    | Pile |
    |  |
    | Pile Driving |
    | Surface |
    | Blasting |
    | Tunnel |
    | Blasting |
    | Blaster | Contractor or

    Excavator
    File
    Pility
    Pile Driving
    Surface
    Blasting
    Tunnel
    Blasting
    Blaster Contractor or
    Excavator
    File
    Pility
    Pile Driving
    Surface
    Blasting
    Tunnel
    Blasting
    Blaster Contractor or
    Excavator
    File
    Pility
    Pile Driving
    Surface
    Blasting
    Tunnel
    Blasting
    Blaster Contractor or
    Excavator
    File
    Pility
    Pile Driving
    Surface
    Blasting
    Tunnel
    Blasting
    Blaster

    ## Applicant <br> Compaction

    Enbridge Gas Distribution Inc. or any of its represen

    Engineer,
    Independent blasting
    consultant
    Construction
    Operations
    Vicinity

[^1]:    evel, and they should extend down to the bottom of the root-ball as shown in Figure 2.4.

[^2]:    The following situations will require the opinion of an independent Engineer. movement in order to evaluate and validate the proposed method of work and operation.

[^3]:    a) Compaction of soils or backfill rated at 10,000 ft-lbs or higher at a stand-off distance of 6 meters or less from the pipeline
    b) Pile driving at a stand-off distance of 10 meters or less from the pipeline or other natural gas facility.
    c) High-energy dynamic compaction for the rehabilitation of soils at a distance of 30 meters or less from the pipeline.

[^4]:    Public Works
    9445 Airport Road, $3{ }^{\text {rd }}$ Floor, Brampton, ON. L6S 4J3
    Telephone: 905-791-7800 / www.peelregion.ca

