



UDI Infrastructure Drainage & Water Committee w/ EPCOR Summary

Date: June 4, 2019, 9:00 – 10:00 am
Location: UDI Boardroom UDI #324, 10113 104 St
Subject: UDI Infrastructure Committee Combined Quarterly Meeting with Epcor Drainage & Water

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|--------------------------------|----------------|----------------|------------------|
| Attendees: Wade Zwicker | Larry Semeniuk | David Mathew | Andrew Kowalchyk |
| Jason Babichuk | Sherry Baik | Rick Evans | Kathy Le-Nguyen |
| Paul Vo | Otto Hedges | Mikaela Hanley | Fernando Sacluti |
| Richard Brown | Mark Pivovar | Deanna Kwong | |

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|-----------------------------|-------------------|----------------|---------------|
| Regrets: Sean Novak, | Doug VandenBrink, | Richard Demers | Kent Ruggles |
| Jon Heisler | Glen W. Thoman | Ryan Tomas | Tannis Wisheu |
| Betty Icharia | Shaun Andreas | | |

Action items highlighted in BLUE
Drainage

1. **Erosion Sediment Control Ad Hoc Committee – Glen Thoman**
No Update at this time

2. **Storm Water Management Facility Sizing Ad Hoc Committee – Jon Heisler**
On hold at this time as there has been some changes with EPCOR.
As per Fernando S, the Design standard changes – the engineering group is going to be taking that over. As well as a safety review that has just been completed and updated and will be released with recommendations.

3. **Sanitary Sewage Generation and Pipe Velocity Ad Hoc Committee – Larry Semeniuk**
Move is to make it equivalent - water consumption to sewage **Generation** – 220liters/capita/day.
One thing that still needs to be resolved is Pipe Velocity.
In other municipalities is minimum pipe slopes – simplifies approvals and designs. Still to be resolved

4. **Review of Storm Water Management restrictions to Green Field Commercial development – Jon Heisler/Mikaela Hanley**
No Update at this time

5. **Review of NF80&90 Manhole frames and Covers – Epcor Drainage**
Conversations going on with the Transportation Committee about concerns with the change and would like to stay with how it is currently. Epcor is looking into an alternative.
See attached email and Video to the “improper” installation of NF 80 style of manhole frames and covers. <https://youtu.be/06lldz7ArcA>
Reason for the change was because it is hard to inspect when the ring is installed and there are also concerns of safety issues (People hurting their backs lifting them)
Pavers are often paving right over top of it and coming back and lifting it – leaving a cold ring which is a \$2000 penalty. They often Mushroom up or sink down
Fernando and Mark to initiate conversations and to include Larry to engage individuals that can be helpful to the conversation

Water

1. Old Business

a. Over Depth CC's

- i. Request to increase depth of bury to 2.75m – Jason Babichuk
- ii. Deficiency Payment Agreement

Epcor is looking at increase in depth for Walk Outs only to 2.75m – to be reviewed this fall. Otherwise it is to meet the current standards.

***the Depth needs to be clearly indicated on the engineering drawings.

If CC's are too deep and EPCOR can't get to the issue quickly – that is the concern.

No concerns about needing to change the material as the keys still fit – any deeper a change will be required.

Deficiency payments have been sidelined by the work with IDEA (The infill group)

b. Water Flushing alternatives

i. Water Haulers – Riverview Hydrant

David M has not heard any concerns at this time.

If there are any concerns – please advise

ii. Automated installations

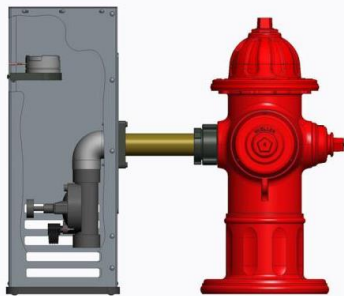
1. Pilot Project

a. Laural

b. Glenridding

Laurel did not go automated –contractor is going out and flushing - getting a monthly report and testing
Glenridding – has not moved forward yet – there is nothing on the engineering

What is an automated water flusher - Unidirectional **flushing** is a traditional method used to manually **flush water** lines for biofilm removal and **water** quality maintenance. ... **Automatic flushing** minimizes disinfectant residuals in **water** distribution systems by **flushing** at predetermined and programmed events.



photos may not be exact

iii. Outstanding Developer Invoices

No concerns we are aware of at this time

c. Review of Water and Sanitary Service details – Sean Novak

David M – Alberta Environment has advised Small Service Separations are not their concern, it is not a part of the distribution system.

Do not need to apply the 3m between sanitary and storm pipes.

If we have a service with a T intersection do not need to maintain 2.5m.

In order to maintain the concerns about cross contamination we would still like to maintain 1.5m from the sanitary and storm pipes to the water service and when running parallel.

Vertical separation – concerns where the water service is sitting right on top – need to come up with a standard detail. Where a water service crosses over a storm or sanitary or even a main line. Need to make sure we are not crushing the water services below or above. When Epcor is servicing – they need to have knowledge on where and what they are going to be digging into.

d. Review of sewer and water services depth of bury – Sean Novak

e. Watermain Cost Sharing Program – David Mathew

This has mostly been resolved – one submission for all 3 distribution, transition and transmission mains.

f. Inspectors Manual – David Mathew

Draft has been completed for both water and drainage though has not been released.

g. Epcor Requirements for Water CCC David Mathew

Still concerns about some individuals getting the information in ontime – continuing to monitor

Question as to why hard copies – Epcor keeps all hard copies for Emergency Planning – what should happen if all electronic copies were to disappear or be unavailable.

Working on blanket easement – Wade

2. New Business

a) Epcor Staff Changes – David Mathew

Mina Engleberger (SP?) – retired Mira Cruise – taking over as Senior Planning Tech

Natalie Hyyak – New IET

b) New Epcor initiatives – David Mathew

Fernando Sacluti - As of May 10 they have implemented a Stormwater Integrated Resource Plan

Deanna to set up a time for the group to see the presentation.

EPCOR Would also like to set up a working group to look at the changes to the design standards

Richard Brown – Drainage needs to update their standards looking for volunteers to review with Fernando –Wade Z, Kathy N, Glen T, Otto H

David M is looking for volunteers Review by a combination of Engineers and Landscape Architects to look at LID - Proposed Wording for Soil Cell/LID features around water mains – Already sent out for review and returned to David on July 2/19

c) Water services (at the joints) to have 1.5m horizontal separation to any storm/cb lead joint.

Every height is supposed to be centered at a crossing point – no joint.

When you build a storm line and you have a water line crossing it – they are supposed to be centered.

Replacement pipe is 3m, Pipe spacing is 3m – so we will maintain 1.5 m between the joint and the crossing.

A fitting or mainstock counts as a pipe joint – so it has to be outside.

Concerns are if there is a bad joint contamination can get into the watermain, and increased risk of pipe failure if you expose those joints during excavation.

If there are concerns with these standards - submit reasonable proposal that allows for tolerances beyond 2.5 and how that is going to be managed – this will then be reviewed as a part of the standards review. How is it going to be documented, how is it going to be maintained, manage curbs, and ensure the infrastructure EPCOR is going to be inheriting is going to be manageable.

The cost to construct in these ways – it causing the price of housing to go up.

Andrew will try and work on this

3 Next Meeting

9:00-10:30am – Tuesday September 24/19

Information from: 5. Review of NF80&90 Manhole frames and Covers – Epcor Drainage

From: Paul Vo <pvo@trojanind.ca>

Sent: May 15, 2019 10:21 AM

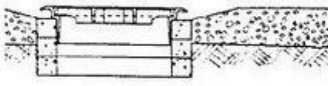
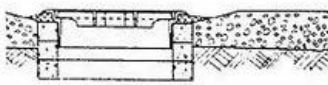
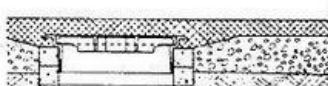
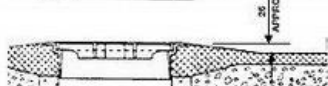

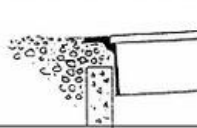
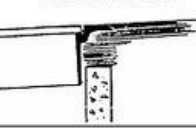
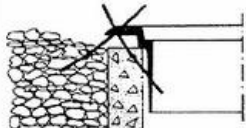
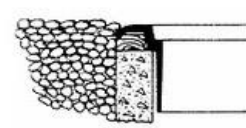

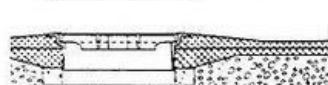
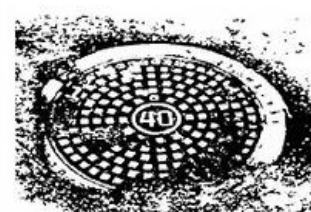
To: Larry Semeniuk <larry.semeniuk@g3development.ca>

Cc: bumstead_1@hotmail.com

Subject: Fwd: NF 80/90 Frames and Covers

Hello Larry

Sorry for the delay, I had to upload this video on youtube as the file was too large. In this link <https://youtu.be/06Ildz7ArcA> you will see improper installation of TF-80. Attached is some literature regarding installation as well. Please let me know if you need anything else. Thanks.

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|---|---|
| <p>NF-80 FLOATING STYLE MANHOLE INSTALLATION IN NEW ROADS</p> <p>NOTE: FOR USE WITH 610mm NOM. (635mm MAX) I.D. GRADE RINGS</p>  <p>WHEN PREPARING TO PAVE REMOVE ALL GRAVEL AND DIRT FROM AROUND FRAME. DO NOT DRIVE ACROSS FRAME AND COVER WHEN IT RESTS ON CONCRETE RING.</p>  <p>USE A FEW SHOVELS OF ASPHALT TO PACK UNDER THE FLANGE BEFORE PAVER DRIVES ACROSS. DO NOT LET ASPHALT GET COLD PRIOR TO ROLLING.</p>  <p>PRIOR TO APPLICATION OF ASPHALT, SPRAY THE FRAME AND COVER WITH OIL TO EASE REMOVAL OF ASPHALT. AFTER PAVER HAS LAID OUT ASPHALT REMOVE ALL ASPHALT FROM FRAME AND COVER.</p>  <p>LIFT FRAME AND COVER AND USE THE ASPHALT THAT WAS REMOVED FROM IT TO PACK UNDER FLANGE AND FEATHER OUT TO APPROX. 50 cm FROM EDGE OF FRAME.</p>  <p>THE ROLLER CAN NOW PRESS FRAME AND COVER TO A SMOOTH INSTALLATION.</p> <p>ASPHALTIC CONCRETE SURFACE COURSE BASE COURSE COMPACTED SUBGRADE</p> | <p>① DURING CONSTRUCTION AND IN GRAVEL ROADS THE NF-80 FRAME WILL FLOAT IN THE ROAD MATERIALS.</p>  <p>② WHEN THE ROAD IS PAVED, THE GRAVEL IS REMOVED SO THAT THE ASPHALT COMES IN CONTACT WITH THE MANHOLE RING.</p>  <p>③ FLOATING MANHOLE FRAMES MUST ONLY BE USED AS 'FLOATING'! FLOATING MANHOLE FRAMES MUST NOT REST ON THE CONCRETE RING - THEY SHALL FLOAT IN THE ROAD MATERIALS</p>  <p>④ DO NOT DRIVE ACROSS A MANHOLE WHERE THE FRAME RESTS ON THE CONCRETE RING. THE NF-80 FRAME WILL NOT BE DAMAGED, BUT WILL LIKELY FLIP AND THIS WILL PROBABLY DAMAGE THE CONCRETE RINGS.</p>  <p>⑤ SOME PIECES OF 2" x 4" UNDER THE FLANGE DURING CONSTRUCTION MAY SAVE THE MANHOLE, IF THE ROAD MATERIALS CANNOT BE USED.</p> |
| <p>INSTALLATION IN EXISTING ROADS</p>  <p>WHEN RESURFACING EXISTING ROADS, LOOSEN FRAME FROM ASPHALT. SPRAY FRAME AND COVER WITH OIL TO EASE REMOVAL OF NEW ASPHALT. AFTER PAVER HAS LAID OUT ASPHALT, REMOVE ALL ASPHALT FROM THE FRAME AND COVER.</p>  <p>LIFT THE FRAME AND COVER AND USE ASPHALT THAT WAS REMOVED TO PACK UNDER FLANGE AND FEATHER OUT TO APPROX. 50 cm FROM EDGE OF FRAME. THE ROLLER CAN PRESS FRAME AND COVER AS IN NEW INSTALLATION.</p> | <p>⑥ DEMAND FROM THE PAVING CONTRACTOR:</p> <ul style="list-style-type: none">- THAT THE FRAME IS LEVEL WITH THE ROAD SURFACE, NOT A LITTLE LOWER.- THAT THE COVER IS CLEANED PROPERLY BEFORE THE COMPACTOR ARRIVES.- THAT THE LIFTHOLES ARE CLEANED OUT BEFORE THE MANHOLE IS LEFT. <p>DO NOT ACCEPT THE INSTALLATION IF THE FRAME IS 5mm BELOW THE ROAD SURFACE. THE LIFTHOLES MUST BE CLEANED OUT WHILE THE ASPHALT IS HOT.</p> <p>INSTALL THE FRAMES RIGHT!</p>  <p>NOT LIKE THIS!</p> <p>IMPORTANT TIPS ABOUT THE USE OF FLOATING MANHOLE FRAMES</p> <p>NF-80 / NF-90 TIPS</p> |

Best Regards

Paul Vo

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