

THE CORPORATION OF THE TOWNSHIP OF HORTON

PUBLIC WORKS COMMITTEE

March 01, 2010

There was a Meeting of the Public Works Committee held in the Upstairs Meeting Room of the Fire Hall on Monday March 1, 2010. Present were Chair Dave Bennett, Councillor Bob Kingsbury, Murray Humphries and Rick Lester. Staff present was Jeff Schruder Municipal Infrastructure Manager, Rod Eady Public Works Superintendent and Mackie McLaren CAO/Clerk.

1. CALL TO ORDER

Chair Bennett called the meeting to order at 8:30 a.m.

2. DECLARATION OF PECUNIARY INTEREST

There was no declaration of pecuniary interest by members of the Committee.

3. MINUTES OF FEBRUARY 1, 2010 MEETING

Chair Bennett reviewed the February 1, 2010 Meeting Minutes with the members.

4. BUSINESS ARISING

Irene Purdie's Request for Children at Play Signs

Rick Lester asked if there was any comment from Mrs. Purdie.

The CAO/Clerk said not at this point. Rod Eady said the sign will go up shortly.

Holiday Shutdown

Jeff Schruder informed the Committee that he has plotted out last year's holidays for the Public Works Department, including time off in lieu periods and work carried on for other departments. He said some holidays are already scheduled for 2010 and the employees do not seem too supportive. Three employees have between them seven weeks vacation, which will increase to eight weeks in 2010. Last year four weeks of banked time was used. In addition to this the Road Superintendent has six weeks of holidays.

After discussion Chair Bennett asked Mr Schruder to plot the holidays the men want this year and overlay the work schedule he is preparing for 2010 projects to see if there are problem areas, and report to the next Committee Meeting.

5. DELEGATIONS

9:12 Ed Vickers – Stantec Engineering – Garden of Eden Road

Also present Randy Gaddess and Gerry Richards, ratepayers who live on Garden of Eden Road, who have been asked to join our Committee for this Project

Soil Report

Mr Vickers said the Soil Report was completed in June 2009. The asphalt thickness ranges from 40 to 90 mm, granular thickness ranges from 70 to 1400 mm. The section of Pinnacle Road has sandy sub-soil which has low frost susceptibility while the Garden of Eden Road section is clay which is high frost susceptibility. Mr Vickers suggested that the process of reconstruction would pulverize the asphalt and reuse it into the gravel with 150 mm of granular and 50 mm of asphalt added and over the road culverts add an additional 150 mm of gravel. This type of improvement is used on other roads and works well.

Chair Bennett asked if granular B is required as a sub-base?

Mr Vickers said no, only granular A is required.

Mr Vickers referred to the area near Bruce Street that was reconstructed when Highway 417 went through in the 1970's, he advised that if improvements were not made to this section at this time that the life cycle would differ. He recommended we pulverize the asphalt and add a lift of gravel and repave.

Bob Kingsbury asked if we don't do it now, when would we have to do it? Mr Vickers said in 5 to 10 years. If costs are a concern with the contract, this section could be removed.

Randy Gaddess questioned the 300 mm over the culverts, would they be tapered to blend into the road? Mr. Vickers said it would be tapered including a frost taper. He noted that we can't stop a frost bump at a culvert, but the area around the culvert is tapered with granular material so that the bump will be more gradual.

Rod Eady noted that there is a section of road near Laura Martin's place which is low swampy area and is our worst road section. Would the contractor excavate the base of the road in this location? Mr. Vickers took note of this location and asked for input on other sections of the road that experiences spring breakup problems.

Fish Report

Mr. Vickers reported that the Fish Study Report was produced in November 2009. The engineers contacted Environment Canada, Fisheries and Oceans and Ontario Ministry of Natural Resources. Eighteen crossings were investigated on June 23 & 24 and again on October 27.

No brook trout were found, but other species were found that would require mitigation but nothing was found that would stop construction. The work on the cold stream culverts would have to be carried out between July 15 and September 30.

There would have to be silt control and any refueling of equipment would have to take place away from the streams.

He noted that they will recommend that we change "like culverts" for "like culverts", which is replace the existing concrete open bottom culverts with concrete open bottom culverts. Mr. Vickers said that approvals would be faster and there would not be a need for compensation agreements.

Both Gerry Richards and Randy Gaddess questioned the design costs for the open bottom concrete culverts.

Chair Bennett questioned the additional cost that would be required to put in concrete culverts, as installing CSP steel culverts would be cheaper and quicker to install. Mr Vickers said the concern is the remedial cost for work that is unknown. Chair Bennett noted that few concrete culverts are put in on construction jobs now.

Murray Humphries noted that the County installed a CSP culvert on County Road 20 when they reconstructed that section of Castelford Road within the last fifteen years.

Design Criteria as per Grant Application

Mr Vickers said that the design criteria that was presented in the Grant Application may be more that we need. Traffic volume and speed determine the basic criteria. He is estimating that the traffic on this road is 400 to 1000 vehicles per day. The speed is not posted which means it is 80 kph. He noted that there are certain areas that do not meet the

design speed requirements, there are several knolls that are too sharp and there are several low spots that do not give proper sight lines. He advised that there are no traffic signs for traffic heading north on Garden of Eden Road towards Pinnacle. He suggested that unless there are accidents in areas that the Municipality could leave them as they are with proper signage. The crest of the hill by the Cole properties is deficient but suggested that we could fill on both sides to improve the sight distance. There is a sag and a crest issue near Martins where more fill over the sag would help. The remainder of the road is fine.

Mr Vickers discussed the existing pavement on Pinnacle Road, average is 6.15 metres wide, Garden of Eden Road new section at Bruce Street is 6.5 metres the balance of the road is 6.2 metres, on average. The platform width, which is outside shoulder to outside shoulder is 9.5 metres. A grade rise of 150 mm adds one metre to the width of the road.

Rod Eady noted that there was one accident within the last ten years at the intersection of Garden of Eden and Pinnacle which resulted in a recommendation from the OPP for a four way stop.

Design Speed

Mr Vickers suggested that the design be equal to the posted speed i.e. 80 kph.

Lane Width

Gerry Richards and Randy Gaddess noted that the pedestrian and bicycle traffic is high and with wider farm equipment wider pavement would be a benefit.

Chair Bennett asked if the concern was cost?

Mr Vickers said yes and recommended three metre width per lane (six metre total). Murray Humphries suggested that if you made it 3.1 metres per lane you come out to the standard of ten feet width per lane.

Mr Vickers said six metre wide lanes would mean that the road platform is currently in place.

Gerry Richards said that the real concern is farm equipment on the road particularly near Cole's hill where there is not enough sight lines for traffic meeting him to know that he is towing wide farm equipment. The other concern is left turns into laneways.

Jeff Schruder noted that if the granular lift was less that you could reduce the platform lift. Mr Vickers said our road is now within the design standard for platform of a 6.1 metre wide road.

Mr Vickers then recommended that we design for daily traffic of 400 – 1000 vehicles, the posted speed be 80 kph, the design be for an 80 kph road, the surface width be 3 metres in the Garden of Eden section and 3.25 metres per lane in the Pinnacle Road section, due to large gravel trucks on that section. The shoulder be one metre wide and the rounding be half a metre. The Committee agreed.

Gerry Richards asked if the intersection at Pinnacle Road would have a wider width, to make it easier for transport trucks to turn? Mr Vickers noted that Pinnacle Road has a four way stop. Rod Eady said he would recommend that Pinnacle Road be straight through, with stop signs at Garden of Eden Road. Both Gerry Richards and Randy Gaddess said they wanted four way stops at this intersection as they can not get equipment out from Garden of Eden in time due to the speeds of the loaded gravel trucks and the sight lines on Pinnacle Road. The Committee agreed to leave a four way stop.

Mr. Vickers said there would be a curb constructed at this intersection which would give extra area for trucks to turn onto Garden of Eden Road.

Murray Humphries suggested that the asphalt width of the lanes on the curve near Bruce Street should be as wide as they are now. Mr Vickers agreed.

Culvert size – Mr Vickers suggested that we design for a ten year flood criteria. The Committee agreed.

Clearing of Right of Way

Mr Vickers suggested removing all trees except trees planted by adjoining property owners. Gerry Richards said they would like the ditches sloped as shallow as possible so that they can be maintained by the property owners. The Committee agreed.

Ed Vickers noted that the road would be closed, except for local traffic, during construction, which frees up the contractor.

Murray Humphries asked about replacing entrance culverts? Mr Vickers said they would change them if they are ditching in the area, otherwise not.

Rod Eady recommended that we replace all the driveway culverts, or check and replace as needed. The Committee agreed.

The Committee again discussed the type of culverts that would be installed, “like for like”, or CSP replacing concrete.

Chair Bennett asked for a schedule on what the cost would be, the timing and dollars to change concrete to CSP. Mr Vickers said he would get this information.

Chair Bennett said the contract has to be awarded by July 2010. Mr Vickers said he is aiming for earlier than that as he wants the contractor ready to go for July 15, 2010. Mr Vickers will have a report for the April 5, 2010 Committee Meeting.

6. INFRASTRUCTURE MANAGER’S REPORT

Jeff Schruder presented the following report for February 2010.

- Public Works Committee Meeting
- Met with MOE on septage
- Electrical switches for generator at rink building
- Work on Public Works holidays
- Asset Management
- Bonnechere Valley landfill site re electric fence – Bear Wise Program
- View trees at pit
- Price steel grates for garage
- Two webinars on Asset Management
- Building Inspection
- Garden of Eden design proposals
- Waste Management Meeting
- Ontario Good Roads Convention
- Safety Committee minutes and meeting agenda
- Council Meeting
- Tipping fees
- Invoices
- Hours schedule for Public Works at rink

7. PUBLIC WORKS SUPERINTENDENT'S REPORT
Rod Eady presented the following report for February 2010.

WINTER EVENTS

- Monday Feb 1 There were strong winds over the weekend. We have white ice on the pavement and gravel roads. Sand Twp Roads
- Tuesday Feb 9 strong wind last night. TR#2 went out at 7 am to plow off drifts
- Tuesday Feb 16 we had 4 to 5 cm of snow with very strong wind – plows went out at 7 am to clean up drifts and sand ice spots.
- Wednesday Feb 17 light dusting of snow last night 2 – 3 cm. Still snowing at 7 am. Snowing hard at 8 am. Still snowing at 10 am 5 – 6 cm down. Quit snowing 11 am plows went out at 11:30 am plow off pavement and main gravel roads.
- Thursday Feb 18 plows went out at 7 am to finish plowing the back roads and sand the pavement. Strong wind today.
- Friday Feb 19 strong wind blowing all night. Big drifts on twp. Roads. Plows started at 6 am.
- Monday Feb 22 windy over the weekend. TR#2 started at 7 am to plow drifts. The grader went out to wing back snow banks.
- Tuesday Feb 23 light snow fell last night 3 – 4 cm. Still snowing at 7 am. Plows went out at 12:30. 5 – 6 cm down.
- Wednesday Feb 24 snowed 8 – 10 cm from yesterday and last night. Plows started at 6 am to plow and sand all Twp. Roads.
- Thursday Feb 25 snowed 4 – 5 cm last night – heavy wet snow – still snowing at 6 am. Plows went out at 6 am. Snowed all morning, still snowing at 1:30 p.m. Snowed all day. At 4 pm we had 10 – 12 cm down.
- Friday Feb 26 snowed 12 – 15 cm. last night. Heavy wet snow. Plows started at 4:30 am.

MISCELLANEOUS JOBS

- Cleaned out gutter in the garage
- Moved snow from septage lot
- Hung signs at rink
- Worked on screening at the rink
- Kept garage clean
- Cold patching
- Fix the gate at the landfill site
- Brushing along side of township roads
- Backhoe opened up pit
- Kept trucks washed and greased
- Set up and take down stage at Community Centre

REPAIRS

- Changed oil and filter on Trucks 2 & 3
- Fixed the cloth on the zamboni
- Changed oil and filter – greased the backhoe
- Welding on ditching bucket
- Fixed lights on TR 2
- Fixed band around exhaust pipe on TR 2
- Drained oil and changed filter on the air compressor

Rod Eady noted that he and Jeff Schruder attended the Good Roads Convention in Toronto February 21 – 23, 2010.

8. CORRESPONDENCE

Email from County re Castleford Road bump.

Chair Bennett noted that there is paint on the road as if an engineer is looking at the bump situation. There is no bump sign yet.

Chair Bennett also noted that the County work on Thomson Road culvert is moving. He said that the County is still monitoring.

9. FEBRUARY FINANCIAL REPORT

The Committee reviewed the February expenses and revenue.

10. OTHER BUSINESS

There was no other business discussed.

11. NEXT MEETING

The Committee agreed that the next meeting would be Monday April 5, 2010 at 8:30 am.

12. CONFIRMING RESOLUITON

Moved by Rick Lester, seconded by Road Eady

That the Committee pass this confirming resolution to cover any actions or directions given during the open portion of this Committee Meeting which are minor in nature and which were not set out in By-law or Resolution.

Carried.

13. ADJOURNMENT

Moved by Murray Humphries, seconded by Jeff Schruder

That this Committee Meeting be adjourned at 11:10 am.

Carried.

Chair

CAO/Clerk