

CITY OF VAUGHAN

EXTRACT FROM COUNCIL MEETING MINUTES OF MAY 17, 2016

Item 14, Report No. 21, of the Committee of the Whole, which was adopted without amendment by the Council of the City of Vaughan on May 17, 2016.

**14 TEMPORARY ROAD CLOSURE FOR CONSTRUCTION PURPOSES
STEGMAN'S MILLS ROAD FROM RAVENDALE COURT TO KIPLING AVENUE AND
TESTON ROAD FROM KIPLING AVENUE TO PINE VALLEY DRIVE
BLOCK 55 EXTERNAL SERVICING
WARD 1 – VICINITY OF TESTON ROAD AND KIPLING AVENUE**

The Committee of the Whole recommends:

- 1) That the recommendation contained in the following report of the Deputy City Manager, Planning & Growth Management and the Director of Development Engineering and Infrastructure Planning, dated May 3, 2016, be approved; and**
- 2) That appropriate signage be installed along Highway 27 alerting road users of the proposed temporary closure of Stegmans Mill Road and Teston Road and the related detour routes.**

Recommendation

The Deputy City Manager, Planning & Growth Management and the Director of Development Engineering and Infrastructure Planning, in consultation with the Deputy City Manager, Public Works and the Director of Transportation Services and Parks & Forestry Operations, recommend:

1. That the necessary by-law be passed authorizing the temporary sequential closure of Stegman's Mills Road from Ravendale Court to Kipling Avenue and Teston Road from Kipling Avenue to Pine Valley Drive to facilitate the timely construction of the municipal services associated with the approved residential development in Block 55 which is tentatively scheduled to occur between July 5th 2016 and November 25th, 2016 inclusive.

Economic Impact

There are no immediate economic impacts resulting from the adoption of this report. All costs associated with the proposed servicing works and road closure will be borne by the Block 55 East Landowners Group.

Prior to the start of any construction on Stegman's Mill Road and Teston Road, the developer will be required to enter into a servicing agreement with the City and post the necessary financial securities.

Communications Plan

A comprehensive communication plan will be implemented to inform all stakeholders of the proposed temporary closure of Stegmans Mill Road and Teston Road and related detour routes. This communication plan will include written notification of the road closure to the area property owners and stakeholders including emergency public service agencies (police, fire and ambulance) and the Region of York. There are no transit routes currently operating on either road. The appropriate notice will be advertised in the local newspapers advising the general public of the proposed road closures.

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Access Vaughan will be provided with information regarding the closures and associated contact information in order to effectively respond to enquiries from the general public. The developer's contractor will be responsible for the installation and maintenance of all barricades and construction signage in order to provide pedestrian and cyclist safety and local access around the construction area. The appropriately worded road side signage will be installed a minimum of two weeks prior to the road closure as a means of informing the public of the temporary road closure. The placement of the road side signage will be in accordance with the Ontario Traffic Manual, Book 7.

Access to several properties along these sections of Stegmans Mill Road and Teston Road will be directly affected by the road closure. The owners of these properties will be contacted directly (hand delivered flyers) and arrangements made to ensure that local access is maintained at all times during the road closure period.

Purpose

The purpose of this report is to seek Council's approval to the temporary sequential closure of Stegman's Mills Road from Ravendale Court to Kipling Avenue and Teston Road from Kipling Avenue to Pine Valley Drive to facilitate the timely construction of the municipal services required to service the Block 55 development.

Background – Analysis and Options

The proposed community of Kleinburg Summit is located within Block 55 East, northeast of the Village of Kleinburg. The community is a mix of 796 low density residential dwelling units of various types, a small commercial block and four park blocks. The design of the new community is heavily influenced by the extensive environmental and rural lands surrounding it. The East Humber River valley will form the western edge of the community and Greenbelt lands surround the other three sides. An enhanced drainage feature augmented by the location of stormwater ponds and a neighbourhood park runs through the developable areas and will divide the community into discrete neighbourhoods.

The Block 55 East Landowners Group are preparing to begin the servicing for the proposed residential development (Kleinburg Summit) located in Block 55 along Stegman's Mill Road and Teston Rd and Kipling Avenue. It is anticipated that the development of the plan will occur in three phases including the construction of a sanitary pumping station, sanitary forcemains, watermain, sewers, storm ponds and the road network. Before servicing can begin within the Block, trunk municipal services will need to be constructed along Stegman's Mills/Teston Road between Pine Valley and Ravendale Court.

Constructing the required municipal services on Stegman's Mill Road and Teston Road will be challenging

STAGE 1 - Stegman's Mills Road from East of Ravendale Court to West of Kipling Avenue from July 5, 2016 to July 29, 2016. In this location a physical road closure will be required between the Hydro One Corridor and Kipling Avenue, however, local traffic will be permitted from Ravendale Court to the Hydro One corridor in order to maintain access to residences within this stretch. The road closure in this location provides for the installation of a large storm box culvert across Teston Road, watermain, sanitary forcemain, storm channel works and associated restoration activities. The works in this area require near-water and in-water works to be carried out between July 1 and September 15 in accordance with DFO, MNR, and TRCA fish window regulations. The installation of the storm box culvert and chambers will require excavations to remain open for multiple days at separate times during the road closure.

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STAGE 2 - Teston Road from East of Kipling Avenue to West of Pine Valley Drive from August 2, 2016 to November 25, 2016. Local traffic will be permitted from Kipling to Pine Valley in order to maintain access to residents within this stretch. The road closure in this stretch provides for the construction of a trunk watermain and sanitary forcemain together with the associated restoration works. Within this section of work there are four independent horizontal directional drill (HDD) installation procedures required in order to cross two drainage features. The four HDD installation works are to be carried out between July 1 and September 15 in accordance with DFO, MNR, and TRCA fish window regulations and will commence in advance of the road closure in this section. This process will be off-road and utilize temporary lane restrictions during daytime working hours. There are an additional two crossings of a drainage culvert which will occur outside of the fish timing window but during the road closure period. Following the installation of the fisheries timing window works, the construction process will continue to progress with the linear open cut installation sections of the work.

A temporary road closure will significantly reduce the construction period and disruption to the immediate community

Given the constructability issues noted above and the fact that there are few lots currently fronting onto this section of roadway, the developer has requested the City's permission to temporarily close Stegman's Mill Road and Teston Road to facilitate the construction of the required municipal services. City staff has had several meetings with the developer to discuss alternatives to closing these roads. Through examining construction schedules it was found that completing the servicing with and without a full road closure resulted in an additional eleven months of construction period being required should the closure not be granted. This would mean that the servicing would not be completed until Late 2017. After exploring the available construction methods, processes and staging alternatives for this work, staff concur that a temporary road closure is the best option in this case.

The closure of the road will establish a safer work environment for the construction workers, especially given the hilly rural nature of Teston Road, and will significantly shorten the construction timeframe for the project. A shorter construction period will minimize the disruption to the immediate property owners and road users. Subject to the execution of the development agreement to construct municipal services, the anticipated start date is July 5th. The construction of the municipal services are expected to take approximately 20 weeks to complete (July 5th to November 25th), weather permitting. Following the installation of the services, the developer plans to restore the disturbed roadway to an original condition or better condition.

The impact on the overall transportation network resulting from the short term closure of Stegman's Mill Road and Teston Road is expected to be minimal and can be managed

Stegman's Mill Road and Teston Road are Minor and Major collector roads respectively, which currently extend between Islington Avenue and east of Pine Valley Drive. Traffic volumes on these sections of roads are currently 2880 vehicles/day (2011) on Stegman's Mill Road, east of Ravendale Court and 3870 vehicles/day (2012) on Teston Road, east of Kipling Avenue. This daily traffic demand tends to decrease during the summer months, which corresponds with the initial stage of the proposed road closure.

The developers group retained the transportation consulting firm of Poulos and Chung to assess the impact of temporarily closing Stegman's Mill Road and Teston Road to facilitate the planned construction work. The evaluation of temporary detour operations presented in the Poulos & Chung temporary road closure report dated March 10, 2016 identifies that:

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- The temporary detour will cause some temporary increased vehicle delays at two key intersections, namely Highway 27 and Kirby Road and the north Teston Road intersection with Pine Valley Drive.
- During the AM and PM peak hour the westbound traffic on Kirby Road will experience some delay at the Highway 27 intersection, however the volume to capacity ratio of this intersection is still considered reasonable and acceptable.
- Adjustment to the signal timing of the Highway 27 and Kirby Road intersection has been examined and it was concluded that adjustments to the signal timing to improve the westbound traffic flow on Kirby Road will adversely impact the Highway 27 traffic flow; since Highway 27 carries significantly higher traffic flows, an adjustment to the signal timing is not recommended.
- During the AM peak hour the westbound traffic on Teston Road proceeding with left turn to southbound on Pine Valley Drive will experience vehicle delays, it is noted that the vehicle delay is not considered onerous for a temporary condition at this unsignalized intersection.
- During the PM peak hour the Pine Valley Drive and Teston Road intersection provides satisfactory operating condition for all traffic flows including diverted traffic.
- The majority of the daily traffic occurs during the morning and afternoon rush hour periods;
- The road network in the area provides alternatives for detour routes.
- Appropriate road and detour signage will be installed to direct traffic through alternate streets within the neighborhood two weeks in advance.
- Only one of the roads will be closed at any given time allowing for through traffic on the other.
- Several properties along these sections of Stegmans Mill Road and Teston Road will be directly affected by the road closure; local access for residents as well as for solid waste collection will be maintained at all times during the road closure period.

The conclusions and recommendations presented in the Poulos & Chung temporary road closure report dated March 10, 2016 identifies that:

- The Stage 1 and Stage 2 temporary road closure of Stegman's Mill Road and Teston Road can be implemented with the traffic detour plan (Attachments 2 and 3) from a traffic operating perspective.
- The resulting temporary diverted traffic flows along with the existing traffic flows can be satisfactorily accommodated by the existing roadway network and the directional detour signs to be implemented.
- No existing intersections require physical changes to lane configuration or approach conditions.
- No adjustments are needed to the existing signal timing at the Highway 27 and Kirby Road intersection.
- Implementation of advanced detour notice signage to the north, east, south and west of the Stegman's Mill Road / Teston Road detour location and immediate area is required. This advanced signage would inform drivers, especially those with longer distance travel to seek alternate east – west and north – south routes further away from the road closure area. Even diverting a small portion of this longer distance traffic from the immediate diversion route would have significant benefit to the offset Pine Valley Drive and Teston Road intersection.

The consulting engineer will prepare a detailed traffic management plan for the temporary road closures to the satisfaction of the City and the Region. Road closure signage and barricades will be installed and maintained by the contractor along Stegman's Mill Road and Teston Road as a means of notifying the public of the closure period together with the appropriate detour route

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information signage on Pine Valley Drive, Islington Avenue, Major Mackenzie Drive and Kirby Road. The servicing works will be carried out in a timely manner to help mitigate traffic impacts resulting from this construction.

Relationship To Term of Council Service Excellence Strategy Map (2014-2018)

The construction of the municipal services related to the Block 55 residential development is consistent with the initiatives outlined in the Term of Council Service Excellence Strategy Map. The construction of these municipal services will:

- Invest, renew and manage infrastructure and assets;
- Attract investment and create jobs
- Continue to ensure the safety and well-being of citizens; and
- Continue to cultivate an environmentally sustainable city.

This report is therefore consistent with the priorities previously set by Council.

Regional Implications

The Region of York is currently in the process of widening and reconstructing Major Mackenzie Drive from Weston road to Pine Valley Drive. As such, the Region was engaged to discuss the potential impacts on the Major Mackenzie road project resulting from the proposed detour routes. Traffic travelling southbound will still be able to access Major Mackenzie Drive but will be provided options to travel eastward on Kirby and then access Major Mackenzie Drive via Weston Road. The road closure and traffic management plan has been coordinated with the Region of York and provisions made to ensure signage is placed at sufficient intervals to provide ample warning of the construction in the area.

Conclusion

To facilitate the construction of the required municipal services to support the approved residential development in Block 55, it is recommended that a by-law be passed to provide for the temporary sequential closure of Stegman's Mill Road and Teston Road, which is tentatively scheduled to occur between July 5th, 2016 and November 25th, 2016 inclusive.

A comprehensive communication plan will be implemented to inform all stakeholders of this temporary road closure as set out in this report. In addition, City Development Engineering staff will continue to monitor the traffic management plan, construction and staging of the servicing works to ensure the works are completed in an appropriate manner and make modifications if required.

Attachments

1. Location Plan Road Closure on Stegman's Mill Road and Teston Road
2. Stegman Mills Road Closure (Stages 1) and Traffic Management Plan
3. Teston Road Closure (Stages 2) and Traffic Management Plan

Report prepared by:

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(A copy of the attachments referred to in the foregoing have been forwarded to each Member of Council and a copy thereof is also on file in the office of the City Clerk.)