

Priorities Committee Meeting_Jun14_2016

REPORT FOR INFORMATION**Design and cost updates for North of Yellowhead/Range Road 232****Report Purpose**

To provide an update to Priorities Committee on the design and cost for North of Yellowhead and Range Road 232.

Council History

November 30, 2015 – Council passed motion 2015/266: That Administration provide an update to Priorities Committee, before the end of the second quarter of 2016, on the design for north of Yellowhead project, including upgrades to Range Road 232, North of the Yellowhead, including the estimated costs of, and plans for funding, these upgrades.

December 13, 2011 – Council approved the 2012 Capital Budget.

Strategic Plan Priority Areas

Economy: Future upgrades will contribute to effective and efficient municipal infrastructure to meet the needs of our growing community.

Governance: N/A

Social: The future roadway upgrades support safe roads and active transportation for Strathcona residents.

Culture: N/A

Environment: N/A

Other Impacts

Policy: N/A

Legislative/Legal: N/A

Interdepartmental: Planning & Development Services; Recreation, Parks & Culture; Transportation & Agriculture Services; Utilities.

Summary

The North of Yellowhead area is located north of Highway 16, west of Highway 21, south of Township Road 534, and east of Range Road 232. These boundaries define the North of Yellowhead levy basin, wherein all developers provide funding for off-site infrastructure improvements, including but not limited to transportation, water main and sanitary sewer.

Capital Planning & Construction, in conjunction with other County departments, has been progressing with the design, land acquisition and third-party utility coordination for the North of Yellowhead project, including upgrades to Range Road 231, Range Road 232, Township Road 534 and interim provincial highway upgrades.

Phase 1 of the North of Yellowhead project is anticipated to include two lane roadway upgrades for Range Road 231, from Highway 16 to north 2 km, including a CN Rail overpass, Highway 16 Intersection Improvements, and interim improvements (signals) at Township Road 534 & Highway 21. It also includes water and sanitary servicing connections on Range Road 231 & Township Road 534 (see map in Enclosure 1, slide 4). The Phase 1 costs are estimated at \$86M, with contingencies included. The timing of this work is dependent on development initiation.

Future phases for the North of Yellowhead project include two lane roadway upgrades on Range Road 231, Township Road 534, and Range Road 232 from Aurum Access to Township Road 534 (see map in Enclosure 1, slide 5). These costs are estimated at \$74M, with contingencies included. Timing of this work is dependant by additional area developments.

The North of Yellowhead long-term design includes upgrading all roadways to four lanes, as well as providing overpasses at all railroads (see map in Enclosure 1, slide 6). Overall costs for these improvements are estimated at \$223M. Timing of the four lane upgrades varies and are based on the rate of development and subsequent traffic volumes.

Range Road 232 was previously upgraded, in 2000 and in 2009, from Highway 16 to 400m south of 137 Avenue (Township Road 534). The remaining portion south of Township Road 534 requires an upgrade to a standard two lane roadway, and is included in the above noted future phases. Costs to complete the two lane upgrade on Range Road 232 are estimated at \$3M. Costs to upgrade Range Road 232 to a four lane section as well as construction of two railroad overpasses is estimated to be \$88M.

Timing of the above noted work is subject to the rate in which further development occurs and outside influences which may cause an increase of traffic volume (see map in Enclosure 1, slide 7): 1) The North East Anthony Henday Drive (NEAHD) project, 2) Broadmoor Boulevard interchange, 3) the removal of temporary signals at Liberty Road, 4) NEAHD/137 Ave interchange in the City of Edmonton, 5) 137 Ave connection to Aurum Drive in the City of Edmonton.

The Alberta Capital Region Wastewater Commission has plans in the near term (estimated by 2018) for a South East Regional Truck System (SERTS) North Pipe Rehabilitation in the event this project proceeds, upgrades to Range Road 232 may be advanced based on economic opportunity. Impacts to traffic including the High Load Corridor would also require an assessment.

Trail planning, design, and construction is also underway, with trail construction scheduled for 2016 and 2017 on the east side of Range Road 232, from Highway 16 to Township Road 534. Future trail construction is proposed by the River Valley Alliance, in partnership with Strathcona County, to continue the trail on Range Road 232 north of Township Road 534.

In summary, the overall cost estimate for all phases of the North of Yellowhead project is \$383M, including contingencies. The overall costs include all future upgrades for Range Road 232, at \$91M (two-lane upgrade section, and long-term four-lane upgrades and two railroad overpasses).

Enclosure

1 Encl 1 ppt Design and cost updates for North of Yellowhead