

Our File/N/Réf. **50 23-00-R013-C**
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DATE 18 August 2000

TO/DEST. Co-ordinator Transportation Committee

FROM/EXP. Director Mobility Services and Corporate Fleet Services
Environment and Transportation Department

SUBJECT/OBJET **PROPOSED UNDERPASS ON JOCKVALE ROAD (REGIONAL
ROAD 13) 530 M SOUTH OF CAMBRIAN ROAD TO
ACCOMMODATE THE STONEBRIDGE GOLF COURSE
COMMUNITY**

DEPARTMENTAL RECOMMENDATION

That the Transportation Committee recommend Council approve the construction of an underpass on Jockvale Road 530 m south of Cambrian Road to facilitate the Stonebridge Golf Course Community subject to Monarch Construction Limited:

- 1. funding the total project cost which would include paying annual maintenance and inspection costs, utility relocations and the conveyance of any property required to relocate the utilities; and,**
- 2. executing a legal agreement with respect to (1) above.**

BACKGROUND

Monarch Construction Limited is currently developing the Stonebridge Golf Course Community on 290 hectares of land that is situated on both sides of Jockvale Road south of the Jock River and north of Prince of Wales Drive (Old Highway 16). The focal point of this community is an 18-hole golf course that will straddle Jockvale Road with the first nine holes of the course on the east side of the roadway substantially completed and the remaining nine holes on the west side of the roadway currently under construction. Linking the two halves of the golf course, the proponents are planning an underpass for the safe conveyance of golfers, maintenance staff and equipment.

The proposed location of the underpass is shown in an area context in Annex A.

EXISTING CONDITIONS

Jockvale Road in this area is a two-lane rural roadway with a nominal pavement width of 6.8 m, 3.0 m travel lanes, 2.5 m gravel shoulders and ditches of varying depths on both sides.

Pedestrians

Traffic volumes were recently recorded on 18 July 2000 on Prince of Wales Drive at Jockvale Road which is the nearest surveyed location at 1.1 km south of the proposed underpass. This survey indicates no pedestrian activity along Jockvale Road within the selected eight-hour study period. By inference, existing pedestrian activity in the vicinity of the proposed underpass is very light.

Bicycles

Jockvale Road in the vicinity of the proposed underpass is identified for on-road cycling facilities in the Transportation Master Plan and the Official Plan. Currently, bicycle lanes are not provided along any part of Jockvale Road.

Bicycle volumes can be described as very light along this section of roadway. Over a selected eight-hour period only six cyclists, two eastbound and four westbound, were detected travelling on this section of roadway.

Transit

Transit service is not provided along this section of Jockvale Road.

Automobiles

The same traffic volume survey revealed that approximately 950 motorists travel in each direction over a selected eight-hour period. A combined total of approximately 3,100 motorists travel along this section of roadway over a 24-hour period.

The speed limit on this portion of Jockvale Road is 70 km/h.

DESIGN PROPOSAL

The proposed underpass is, in essence, a large (2.5 m high x 3.7 m wide), prefabricated, internally illuminated, concrete box culvert that will be used to convey golfers, course maintenance staff and equipment underneath Jockvale Road without impeding surface traffic operations. Annex B provides an illustration of this proposed structure.

Currently a 34 m right-of-way is protected along this section of Jockvale Road; however, long-term future designs for this roadway include flattening the curves immediately to the north and providing a four-lane, median-divided, rural cross-section which would necessitate a 42 m right-of-way. The proposed underpass will be constructed of sufficient length to accommodate this future widened right-of-way.

Of critical importance during construction is the presence of a 406 mm watermain that is the sole provider of water to the Village of Manotick. It is essential that an uninterrupted water supply is maintained throughout the construction of the underpass. Hence, Monarch has agreed to relocate the watermain around the underpass, at their expense, while maintaining service to the Manotick community.

Pedestrians

The proposed underpass will have no effect on existing pedestrian travel along this section of Jockvale Road.

Bicycles

The proposed underpass will have no effect on cycling on this portion of Jockvale Road.

Transit

The proposed underpass will not adversely affect future transit service the OC Transpo may provide for the area.

Automobiles

Automobile travel will not be affected by the proposed underpass.

CONFORMITY TO THE TRANSPORTATION MASTER PLAN

The guiding principle from the Transportation Master Plan is the provision of a modal hierarchy with the emphasis on walking, cycling and transit usage. The proposed underpass will facilitate private property and is not intended for use by the general public.

FINANCIAL STATEMENT

Should Regional Council approve the proposed underpass to accommodate the Stonebridge Golf Course Community, then Monarch Construction Limited will be responsible for 100% of the costs.

<u>Item</u>	<u>Cost Estimate</u>
Box Culvert Structure	\$160,000
Construction	\$ 80,000
Utilities	\$ 60,000
Engineering	\$ 40,000
Contingencies	<u>\$ 30,000</u>
Total Estimated Cost before GST	\$370,000
GST @ 7%	<u>\$ 26,000</u>
TOTAL ESTIMATED COST	<u>\$396,000</u>

CONSULTATION

Although there are no requirements under the Municipal Act of Ontario to hold a public hearing for this project, over the last five years, the proposed underpass at this location on Jockvale Road was presented in conjunction with the Stonebridge Golf Course Community development at a number of formal public meetings as required under the Planning Act of Ontario and displayed at a number of informal community association meetings.

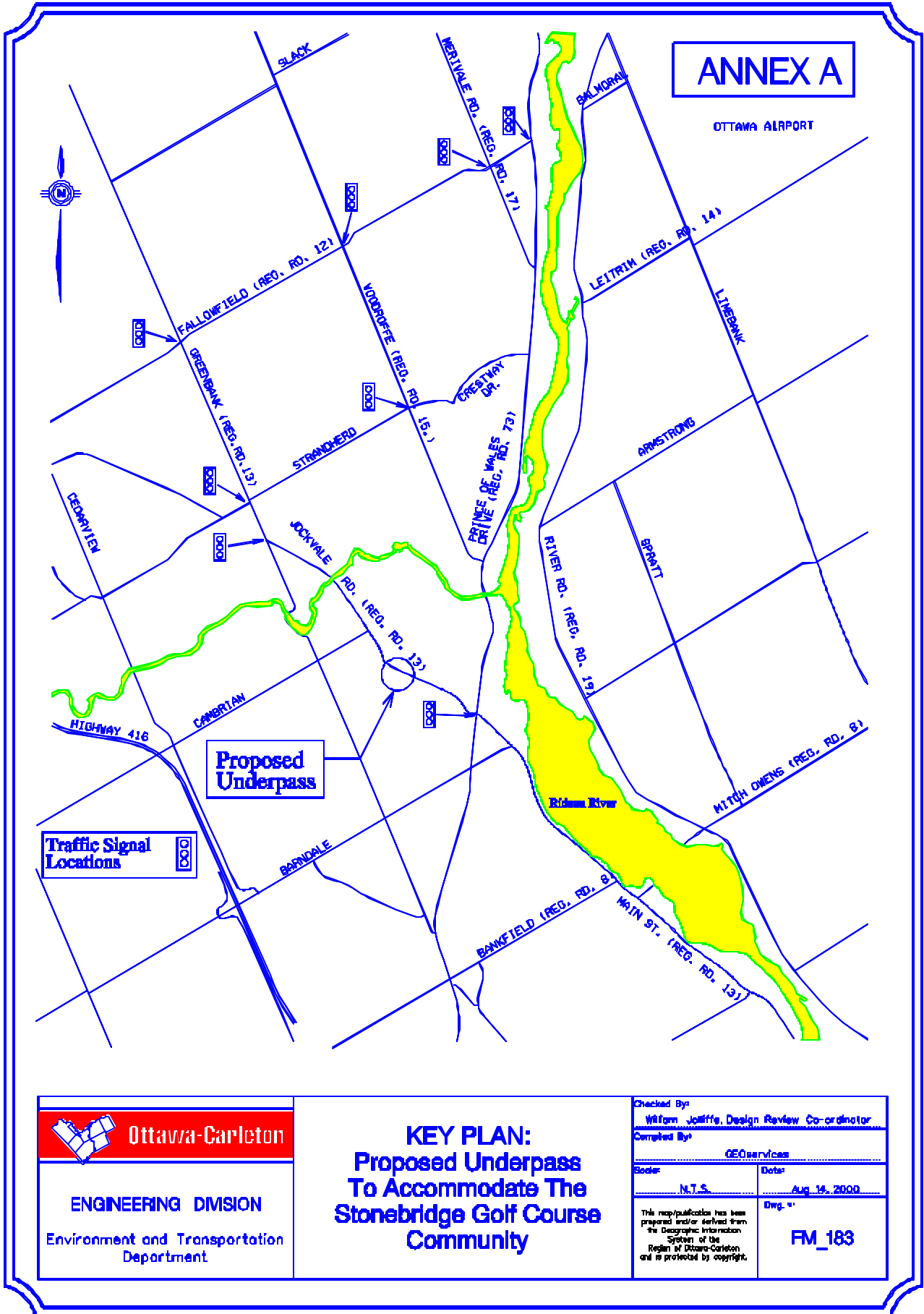
COMMENTS FROM THE REGIONAL CYCLING ADVISORY GROUP

Although no roadway modifications are planned, a conceptual drawing of the underpass will be provided to the Regional Cycling Advisory Group for their review. Staff have requested that should they have any comments, they be made available for the Transportation Committee meeting.

*Approved by
Doug Brousseau*

WJ/gc

Attach. (2)




ANNEX A

OTTAWA AIRPORT

Proposed Underpass

Traffic Signal Locations



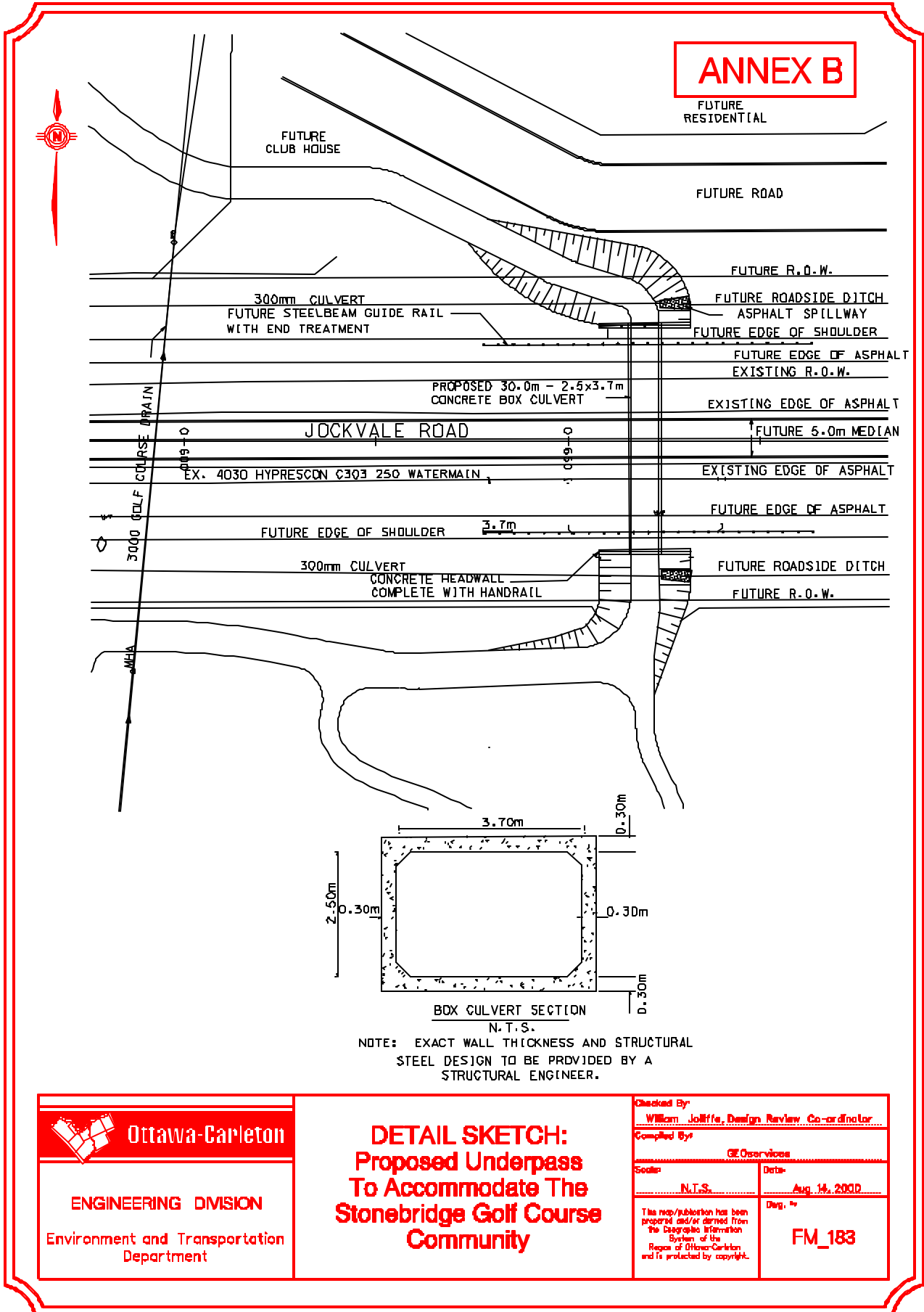
Ottawa-Carleton

ENGINEERING DIVISION

Environment and Transportation Department


**KEY PLAN:
Proposed Underpass
To Accommodate The
Stonebridge Golf Course
Community**

Checked By William Joffe, Design Review Co-ordinator	
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ANNEX B

BOX CULVERT SECTION
 N.T.S.
 NOTE: EXACT WALL THICKNESS AND STRUCTURAL
 STEEL DESIGN TO BE PROVIDED BY A
 STRUCTURAL ENGINEER.

 **Ottawa-Carleton**
ENGINEERING DIVISION
 Environment and Transportation
 Department

**DETAIL SKETCH:
 Proposed Underpass
 To Accommodate The
 Stonebridge Golf Course
 Community**

Checked By: William Joffe, Design Review Co-ordinator	
Compiled By: GE Overseas	
Scale: N.T.S.	Date: Aug. 14, 2000
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