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September 8, 2009

Brian Dunphy, Chairman, HDC
c/o Derek Delacourt, Deputy Director
Planning and Development Department
City of Rochester Hills
1000 Rochester Hills Dr.
Rochester Hills MI 48309

Re: Tienken Road Bridge Project over Stoney Creek
Approval Application Addendum and Additional Information

Dear Mr. Dunphy,

As the Road Commission for Oakland County was required to submit an approval application on the same date as the previous August 20, 2009 Historic District Commission (HDC) meeting, the RCOC did not have the opportunity to address some of the comments received at that meeting in the approval application package. The following information is provided to the HDC for their consideration and approval;

- 1) Revised Plans: We are providing the following revised/additional plans;
 - i) Revised plan sheet showing retaining wall/limit of earth disruption along the SE quadrant of the bridge.
 - ii) Revised cross-section plan showing an updated depiction of the vintage barrier with steel posts.
 - iii) Cross sections of the roadway/bridge through the retaining wall area every 12.5' indicating offsets to the existing water main. The cross sections also indicate the near vertical retaining wall excluding the vegetated blocks in order to minimize earth disruption and maximize clear distance between the wall and water main. The maximum exposed wall height is approx 8' high (at the bridge), tapering to approx 3' in height, with the majority of exposed wall height in the 6' high range.
- 2) Photos of examples of the various railings to be utilized as part of the project including;
 - i) Photos (1&2) of the two tube traffic barrier railing along M-131 in Kent County. A full picture of the concrete ending is not shown, but additional information regarding the ending is noted on the photo. A guardrail approach ending is connected to the other end of the 8' long concrete end wall.



- ii) Photo (3) of the vintage railing panels as currently in use (soon to be replaced) along Paddock Street in the City of Pontiac. The vintage railing to be installed as part of the Tienken Road project is proposed to utilize steel posts, not the concrete posts as depicted in this photo.
- iii) Photos (4, 5 & 6) depicting the condition of the salvaged galvanized railings located at the Michigan Department of Transportation (MDOT) yard.
- iv) Photos (7, 8) of a recently constructed straight split retaining wall at the 14 Mile @ Farmington Road roundabout in Farmington Hills. The color of the wall was the Walnut Blend, whereas, the RCOC is proposing to use the Limestone Blend or Grey straight split retaining wall for the Tienken Road bridge retaining wall.

In addition to the above, the RCOC is proposing to install/refurbish the traffic barrier railings, vintage pedestrian railing and guardrail approach endings in the standard galvanized coating. As can be seen from Photos 1 & 2, the galvanized coatings change to a weathered grey appearance and would blend well with a grey concrete architectural coating over time. In addition, this will minimize the potential for future maintenance of the appearance of the railings as maintenance budgets continue to be diminished. The installation of the vintage railing will be dependent on approval by the City of Rochester Hills to fund the refurbishment costs of the railing and future maintenance of the railing.

The RCOC is also proposing to utilize the Federal color No. 36515 (Medium grey – Lusterless finish) as the architectural coating for the exposed concrete portions of the structure. The palettes can be reviewed at <http://www.colorservers.net/browse/>. In addition, please find attached the MDOT special provision for the concrete surface coatings that stipulate that the contractor must submit color samples for review and approval by the Engineer.

The RCOC has been requested by the City of Rochester Hills, as part of the Mayor's Stoney Creek/Winkler Pond Advisory Committee, to include a mid-block pedestrian crossing west of the bridge, which includes a refuge island, lighting and overhead crosswalk signs. The overhead signage would be span wire mounted with two steel strain poles. A preliminary plan of the crossing is attached for HDC review and approval. The RCOC is prepared to include this feature as part of the project pending approval by the City to fund this improvement.



The RCOC is continuing to work with interested parties to make this a successful project. Please feel free to contact me if you require any additional information or have questions regarding the above at 248-645-2000, Ext 2268.

Sincerely,

Jeff O'Brien, PE
Design Engineer

cc. Dennis Kolar, PE, Deputy Managing Director/County Highway Engineer
Tom Blust, PE, Director of Engineering
Bill McEntee, Director of Permits and Environmental Concerns