

## Memorandum

**To:** Kelsey Jones

**Copies To:** Eric DenOuden

**From:** Jennifer Diaz, P.Eng., Senior Project Manager

**Date:** August 16, 2024

**Reference:** Fawcettville Subdivision DPA  
Pedestrian Lane - Existing Fawcett Avenue  
Ainley File No. 17533-1

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We understand that Council and the public have expressed a desire to have sidewalks added to the existing portion of Fawcett Ave.

To evaluate the feasibility of adding a pathway for pedestrians to the existing road cross section, we've reviewed as-built drawings by G.D. Jewell Engineering Inc. dated October 15, 2007 and visually reviewed the site using Google Streetview and Google Earth. In general, the drawings are a good representation of the existing conditions.

### Existing Conditions

Fawcett Ave is approximately 385 meters long with a 20 meter wide road allowance. It is designed to a rural cross-section with ditches for drainage. The paved surface width is +/- 7.5 meters. The following variations between edge of pavement to property line exist:

- Curb and storm sewer at intersection with County Road 49 (storm sewer along CR49).
- Buried culvert (shallow) with grass, driveway, decorative stone and/or landscaping cover.
- Small gravel shoulders approximately 0.3m wide, rounding to ditch, culverts under driveways (one case of a brick & stone channel) and remainder of boulevard.
- Rounding to ditch and boulevard.

There are poles with overhead hydro and bell as well as underground gasmain located within the boulevard and sometimes under the ditch alignment.

There are several trees located within the area from edge of pavement to property line or within the private property close to the property line.

Hydrants and community mailboxes are located on the north side of the road.

We also observed that the front yards are relatively small with potential encroachment of fences and front porches into the right of way.

Images obtained from Google Streetview showing examples of the existing road cross section are attached for reference.

### Typical Design Standard – Rural Cross Sections

Prince Edward County Transportation Master Plan Nov 2021 provides typical cross section details for County roads. Below is an excerpt of the Master Plan that would apply to Fawcett Ave.

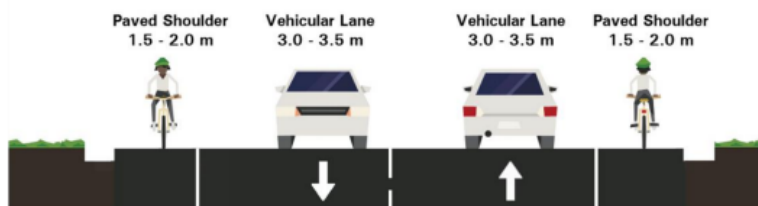
#### 7.1.1 Sample Cross Sections

Typical cross sections were developed to show how the right-of-way can be used through a complete streets lens. A cross section was developed for a both a typical rural and urban landscape to reflect the County's land use context.

The typical rural cross section, as shown in **Figure 7-1**, includes a paved shoulder that can be used for walking and cycling on paved rural roads. The paved shoulders can also be used to preserve the lifecycle of the street by providing additional space for vehicle travel and for agricultural equipment and wide trucks. The enhanced cross section includes a 0.5m buffer, which increases the separation, comfort and safety for the users on the paved shoulder. The enhanced cross section is recommended where space permits and where traffic volumes are higher. Pavement markings for shoulders should be provided for higher speed and volume roads where there is dedicated space for cyclists in the shoulder (minimum 1.5m), for safety purposes.

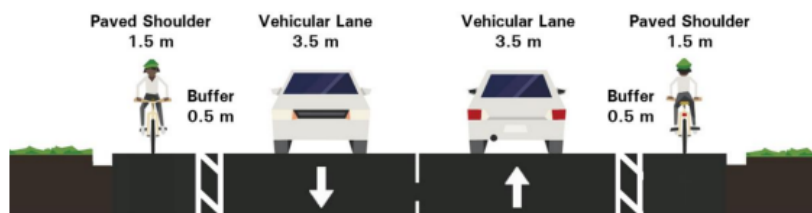
**Figure 7-1. Typical and Enhanced Rural Cross Section**

#### Typical Rural – 1.5 – 2.0 m paved shoulders



\*Edge lines are recommended for posted speeds of 50 km/h and above and volumes over 1000 vpd

#### Enhanced Rural – 1.5 m paved shoulders + 0.5 m buffer



Due to the density of the existing subdivision an Enhanced Rural section is the appropriate design for Fawcett Ave. cross section and associated sidewalk/pedestrian lane.

The existing cross section based on our review discussed above, along with cross sections incorporating two paved shoulder (Option A) and one paved shoulder (Option B) for pedestrian use are provided on the attached CROSS- SECTION DRAWING.

The existing 7.5 m paved surface width is not sufficient to accommodate a pedestrian lane. An additional paved surface of 3.5 m and 1.75 m would be required for Option A and B, respectively, resulting in an overall pavement width of 11 and 9.25 meters.

Due to the close proximity of houses to the property line and hydrants being located on the north side of Fawcett Ave., the south side of the road would be preferred if only one paved lane was provided (9.25m full width).

The increased pavement width will require the following adjustments where a paved surface is added to either side of the street:

- Realignment and regrading of ditching and culverts.
- Removal and reinstatement of driveway, culverts, landscaping, utilities poles with lighting, bell, hydro, etc., a wooden fence
- Other potential adjustments to utilities such as lowering of gasmain, may be required however would require a detailed investigation and design to confirm.
- Loss of several established trees and landscaping.
- Reduction in driveway lengths and front yard appearance.

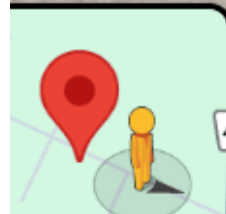
In conclusion, the work required to add a pedestrian paved lane to the existing Fawcett Ave. right of way is significant. The information provided in this memorandum is based on a preliminary review only. To determine the feasibility, further investigations would be required. Upon doing further investigations such as topographical surveying and grading design, it may be determined that maintaining a rural cross section is not feasible and upgrades to urban cross section with storm sewer and curbs would be required.

Document1

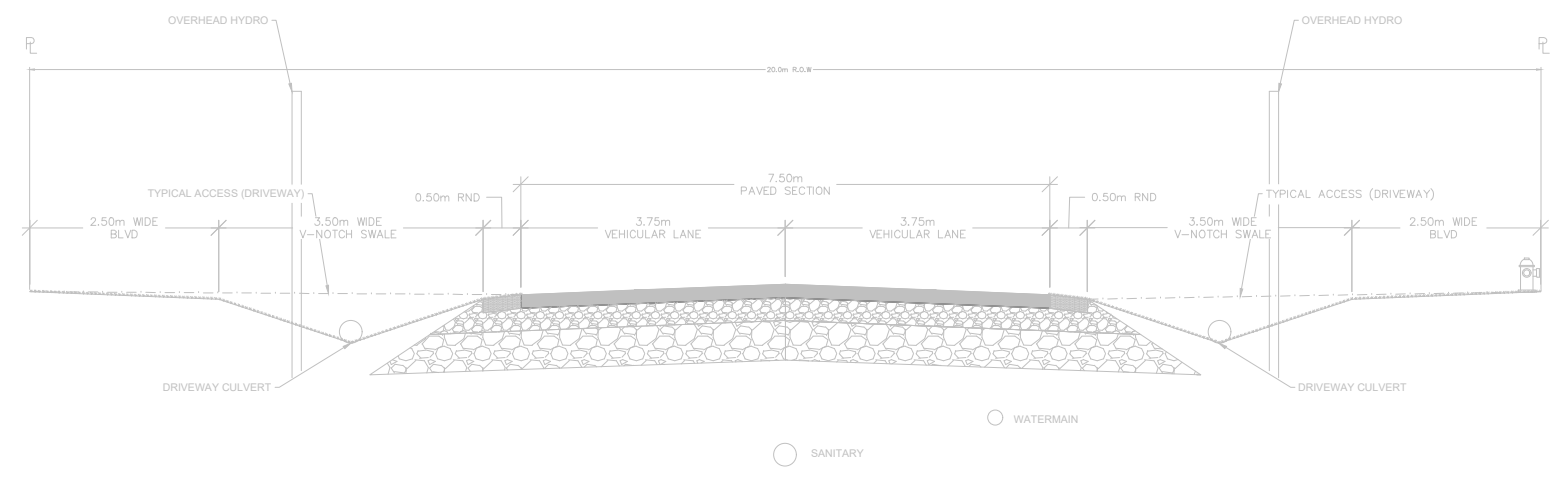




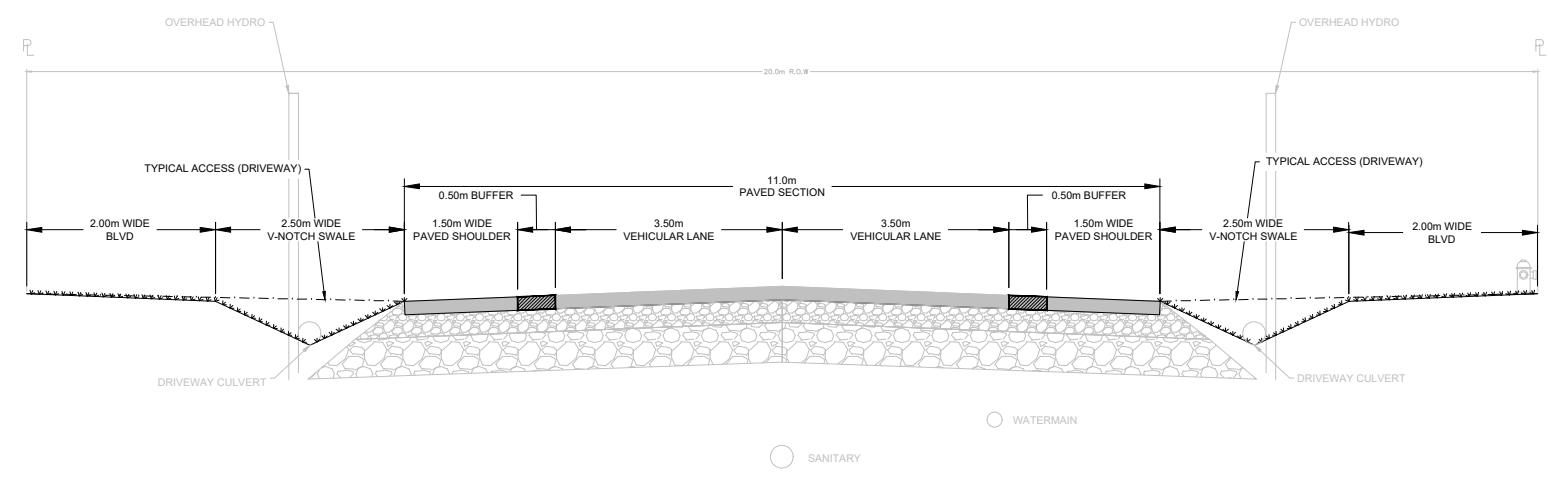
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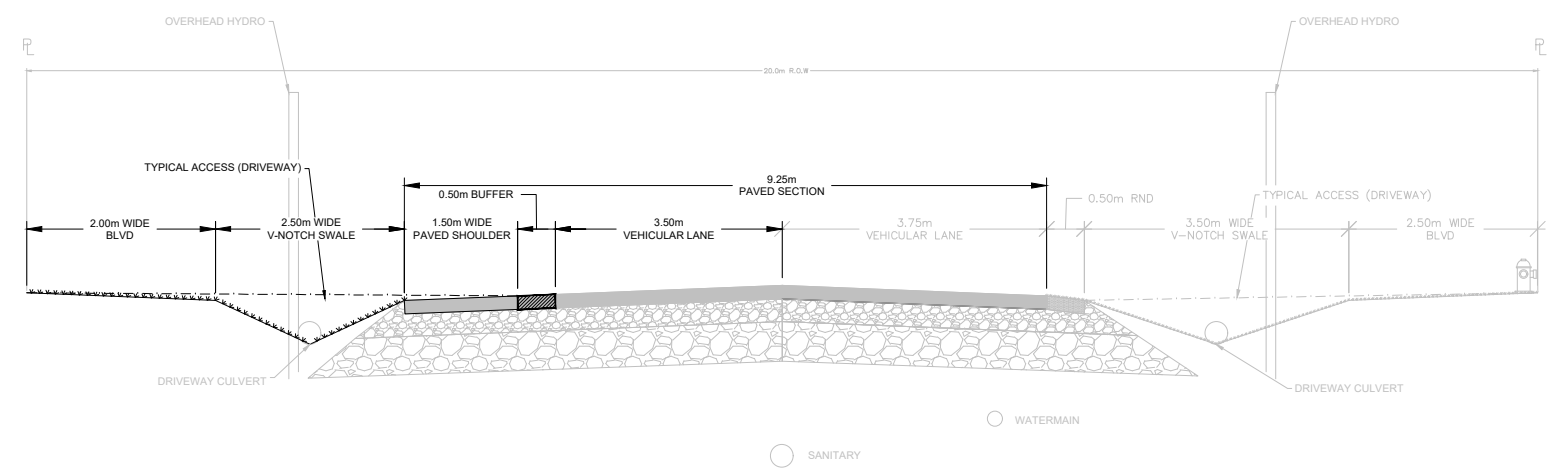
PATH&FILE NAME: K:\Projects\17533 - Fawcettville Subdivision\17533-1 Project\Drawing\\_civil\Exhibits\17533-1 - Fawcettville Avenue Proposed Alterations.dwg



EXISTING FAWCETTVILLE AVENUE  
20.0m R.O.W TYPICAL ROAD SECTION  
(RURAL)



PROPOSED OPTION 'A' FAWCETTVILLE AVENUE  
20.0m R.O.W TYPICAL ROAD SECTION  
(ENHANCED RURAL)



PROPOSED OPTION 'B' FAWCETTVILLE AVENUE  
20.0m R.O.W TYPICAL ROAD SECTION  
(ENHANCED RURAL)



**FAWCETTVILLE AVENUE  
PROPOSED ALTERATIONS  
FOR PEDESTRIAN LANE**

**FAWCETTVILLE SUBDIVISION  
COUNTY OF PRINCE EDWARD  
PICTON, ON**

Consultant File No.  
**17533-1**

Drawing No.  
**CROSS-SECTION**