



Existing pier at bridge #1

Derby

US 5 Connector (TH 1) Bridge 1 over I 91

Derby Bridge 1 – IM 091-3(49)

Project Location: Town of Derby, Village of Derby Line, in Orleans County on US 5 connector, also known as Town Highway 1, over Interstate 91. The bridge is located approximately 500 feet east of the I91, exit 29, Southbound on/off ramp.

The Derby, US 5 connector, Bridge 1 project will replace the bearings, structural steel, deck, pavement and railing on existing bridge. One of the supporting piers will be removed and the cap beams on the remaining three piers will be rebuilt. The existing abutments will be retained.

The existing Derby, US 5 connector, Bridge 1, is a five-span, two lane structure which was constructed in 1962. The existing spans are not continuous across the piers, which leads to leakage at the joints at the piers. The bridge railing is aluminum railing, which was installed in 1991. This type of railing is no longer used and is considered to be sub-standard. The bridge is 315 feet in length and it is 38 feet wide. It includes two travel lanes for vehicles and a sidewalk on the north side. The bridge superstructure, which is a concrete deck on painted steel beams, is in poor condition.

The new bridge superstructure will be a paved concrete deck supported by un-painted steel girders. The girders will be continuous across all four spans of the rehabilitated bridge. The new bridge rail will be made of galvanized steel tubing. On the bridge there will be two travel lanes and two wide shoulders for pedestrian and bicycle use.

The existing bridge will remain in use during the rehabilitation project. The construction will take place in phases, with one lane of the bridge available at all times. Traffic will alternate directions and temporary traffic signals will be used to control the flow of traffic.

Bridge closure was considered for the construction period. Emergency vehicle access and an excessively long detour were some of the major reasons that phased construction (alternating traffic in both directions) was selected over closure and detour.

PROJECT MILESTONES

Preliminary Plans

Spring 2016

Permitting

Fall 2016

Final Design

Spring 2017

Right-of-Way

None Anticipated

Bid Opening

Winter 2017

Construction Schedule

Spring and Summer
2018



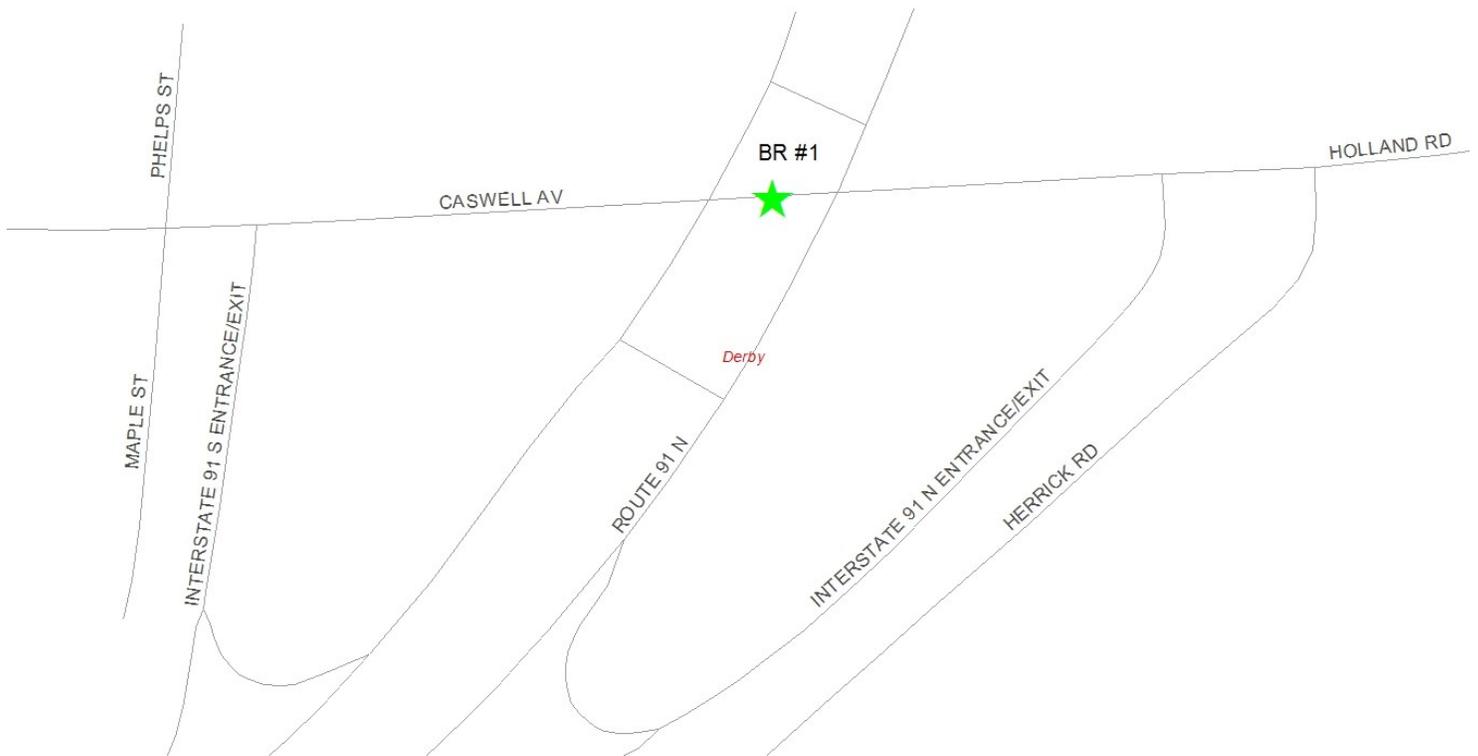


Target Construction Schedule: Construction activities will take place during the spring and summer of 2018. Phased construction will be utilized, on Town Highway 1. Traffic signals will allow alternating one-way traffic on bridge 1. Temporary stoppages of I 91 north and south will be used during certain construction activities. These stoppages will be timed to avoid peak time on I 91.

Project Manager: Carolyn Carlson, P.E.



Existing Bridge #1



Location Map



<https://www.facebook.com>



<https://twitter.com/511VT>

For more details, [click here.](#)

