

Alternative	Advantages	Disadvantages
Alternative 1: Pipe down CR15	<ul style="list-style-type: none"> - Lower infrastructure sizing at CR46 - Decrease channel footprint for Slough Reach - Minimal impacts to existing habitat 	<ul style="list-style-type: none"> - High Cost - Impractical - Multiple utility relocations
Alternative 2: Allow Historic Discharge into Hillsboro Ditch	<ul style="list-style-type: none"> - Low Cost - Decreased Infrastructure sizing - Decreased channel footprint - Lower Discharge downstream of Ditch 	<ul style="list-style-type: none"> - Higher Risk for public - Coordination with ditch company
Alternative 3: Construct Major Drainageway	<ul style="list-style-type: none"> - Low flood risk - Aesthetically pleasing - Increased infrastructure sizing - Opportunity to provide open space/trail 	<ul style="list-style-type: none"> - Decreased developable land - Moderate Construction Cost - High Land Acquisition cost

Table 12: Alternatives Advantages and Disadvantages

The Recommended Plan was determined based on both quantitative and qualitative factors. However, based on qualitative factors there is one option that is far superior from the other options. Constructing a major drainageway is the recommended plan. Allowing historic discharge into Hillsboro ditch is a viable option that could be considered at the time of final design. However, piping down CR15 is not recommended. Explanations for whether an alternative was recommended or not is as follows:

- Alternative 1:

Placing a pipe down CR15 was not recommended because of the feasibility of this situation. The pipe would be a large 84" pipe and would have to be contained within the right of way where there are already many existing utilities as well as a 36" storm drain from the Granary. This would require many utility relocations and finding an outlet alongside the 36" pipe at the Little Thompson River. This option could become more viable if future development on the Spaur property were to over detain its stormwater, however, even then most of the water in this system is coming from existing developments that no longer have that option.

- Alternative 2:

Allowing historic discharge into the Hillsboro ditch was not recommended because the Hillsboro Ditch has had issues with flooding in the past and this option does nothing to help improve that issue. It is of the Town's best interest to protect the public from flooding throughout the Town of Johnstown and the best way to do that is to relieve the ditch from as much stormwater as possible due to its lack of capacity. However, this option could be used in some capacity at the developer's, Town's, and Hillsboro Ditch's discretion.

- Alternative 3:

Constructing a major drainageway was recommended due to mostly to its feasibility and flood protection benefits. This is an option that was originally recommended in the 2001 Stormwater Master Plan for Johnstown. This option provides the most protection to the residents of Johnstown while providing opportunities for the Town to develop a recreational trail along the drainageway. A full description of this plan is included in Section 6.