CITY COUNCIL MEETING
STAFF REPORT

Meeting Date: May 16, 2022	Subject: Resolution No. 2977 Amending the Adopted 2012 Stormwater Master Plan Project List to Add Project MC-1: Meridian Creek Culvert Replacement Staff Member: Zachary J. Weigel, P.E., City Engineer Department: Community Development

Action Required		Advisory Board/Commission Recommendation	
☒	Motion	☐	Approval
☐	Public Hearing Date:	☐	Denial
☐	Ordinance 1st Reading Date:	☐	None Forwarded
☐	Ordinance 2nd Reading Date:	☐	Not Applicable
☒	Resolution	**Comments:** N/A	
☐	Information or Direction		
☐	Information Only		
☐	Council Direction		
☒	Consent Agenda		

| Staff Recommendation: Staff recommends Council adopt the Consent Agenda.		
Recommended Language for Motion: I move to adopt the Consent Agenda.		
Project / Issue Relates To:		
☐Council Goals/Priorities:	☒Adopted Master Plan(s): Frog Pond West Master Plan, 2012 Stormwater Master Plan	☐Not Applicable

ISSUE BEFORE COUNCIL:

A City of Wilsonville Resolution amending the 2012 Stormwater Master Plan project list, under Table 9-2 Prioritized Capital Improvement Project (CIP) Projects, adding project MC-1: Meridian Creek Culvert Replacement. Addition of this project to the stormwater CIP list is needed to allocate stormwater Systems Development Charge (SDC) fees to the project funding.

EXECUTIVE SUMMARY:

The Meridian Creek drainage basin (Figure 1) is located in eastern Wilsonville, extending from the Willamette River to just north of Boeckman Road. The drainage basin (Figure 1) includes portions of neighborhoods on the west and east sides of Wilsonville Road, Wilsonville High School, Boeckman Creek Primary, and portions of Frog Pond neighborhoods. Drainage from Meridian Creek is currently conveyed from Frog Pond West to the south, under Boeckman Road through two existing 18-inch culverts (Attachment 1).

Figure 1: Wilsonville Drainage Basin Map
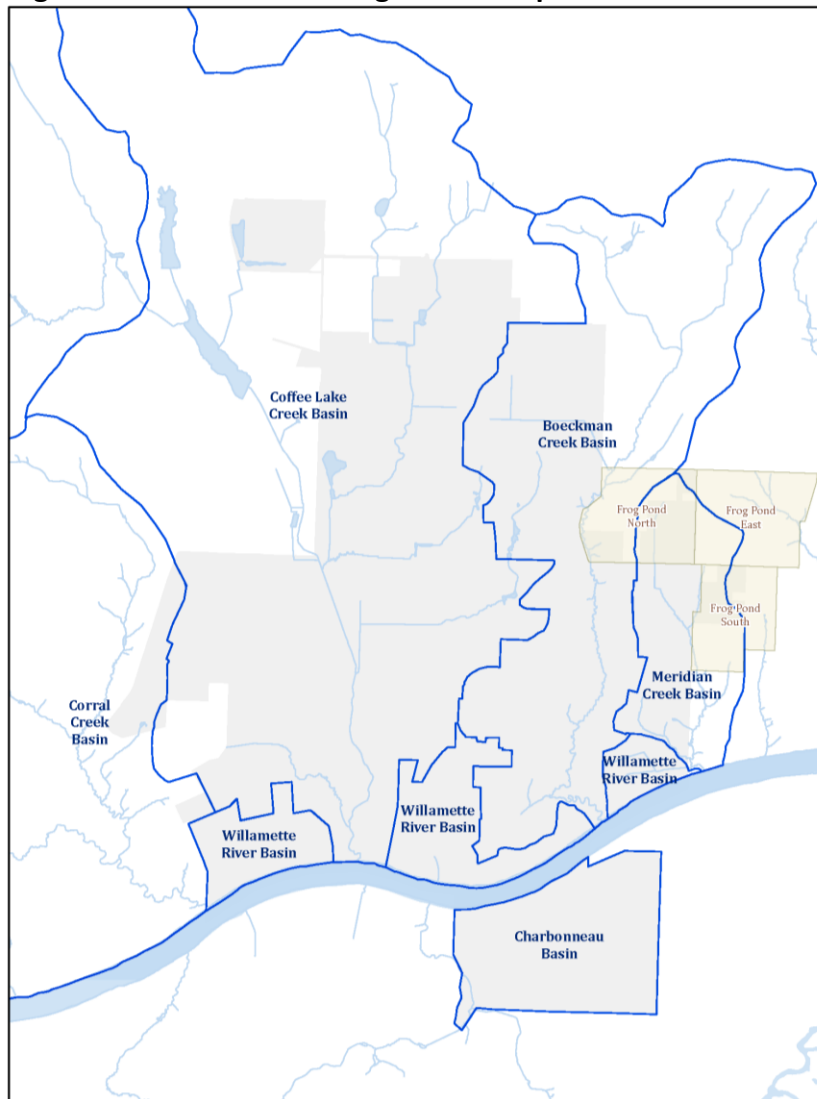
An update to the Wilsonville Stormwater Master Plan (CIP No. 7064) is currently underway and preliminary analysis of the City's stormwater drainage system indicates that the existing culverts under Boeckman Road do not provide enough capacity at full build out of the Frog Pond West neighborhood. Stream flow in Meridian Creek north of Boeckman Road has been modeled and is predicted to overtop Boeckman Road during large rainfall events.

A capital improvement project, Meridian Creek Culvert Replacement (Attachment 1), will be identified in the updated Stormwater Master Plan to increase capacity at the Meridian Creek crossing of Boeckman Road. However, the Boeckman Road Corridor Project (BRCP), which includes roadway improvements between Canyon Creek Road and Advance Road, is scheduled to begin design in June 2022 and the Meridian Creek culverts are located within the BRCP project limits.

In order to allow construction of the Meridian Creek culverts with the Boeckman Roadway improvements as part of the BRCP project, the project needs to be added to the stormwater CIP list prior to completion and adoption of the Stormwater Master Plan update. By amending the 2012 Stormwater Master Plan project list, the Meridian Creek Culvert Replacement project will be eligible for Stormwater System Development Charge (SDC) funding and is then allowed to be constructed timely with the BRCP project.

EXPECTED RESULTS:
Adding capacity to the Meridian Creek crossing of Boeckman Road will support development of the Frog Pond neighborhoods and prevent creek flows from overtopping Boeckman Road during large rainfall events. Advancing the Meridian Creek Culvert Replacement project with the Boeckman Road Corridor Project will allow for coordinated design and construction activities and prevent removal and replacement of roadway improvements that will take place over the next two years.

TIMELINE:
The Boeckman Road Corridor Project (BRCP) is scheduled to begin design in June 2022 with construction completion anticipated for December 2024. The Meridian Creek Culvert Replacement project will be coordinated with the BRCP and is anticipated to follow the same design and construction timeframe.

CURRENT YEAR BUDGET IMPACTS:
There are no current year budget impacts by adding the Meridian Creek Culvert Replacement project to the 2012 Stormwater Master Plan project list. Addition of this project to the stormwater CIP list allows the design and construction of the project to advance and makes the project eligible for stormwater SDC funding.

COMMUNITY INVOLVEMENT PROCESS:
The Stormwater Master Plan Update project (CIP No. 7064) is currently underway and has included a community involvement and stakeholder engagement process with multiple meetings, on-line events and surveys through Let's Talk, Wilsonville!, as well as creation and distribution of public education materials. The public engagement feedback has been used to determine community values related to stormwater in Wilsonville and has helped build consensus on the stormwater management needs and services for Wilsonville.

POTENTIAL IMPACTS OR BENEFIT TO THE COMMUNITY:
Coordination between design and construction of the BRCP and the Meridian Creek Culvert Replacement project will result in reduced construction impacts to the traveling public and nearby residences, as well as cost savings to rate payers by avoiding removal and replacement of planned roadway improvements. Additionally, upsizing of the culverts will eliminate the potential for future flooding at this location, protecting people and property.

ALTERNATIVES:
As part of the Stormwater Master Plan update work, the consultant team lead by Brown and Caldwell assessed a number of alternatives to add capacity to the Meridian Creek crossing of Boeckman Road. The selected alternative (Attachment A) provides the best solution in consideration of cost, environmental and downstream impacts, and impacts to community and private property.

CITY MANAGER COMMENT:
N/A

ATTACHMENTS:
1. Meridian Creek Culver Replacement Capital Project Summary Sheet
2. Resolution No. 2977
    A. 2012 Stormwater Master Plan – Replacement Table 9.2 – Prioritized CIP Projects