

Department of Public Works – Engineering Division

MEMO

TO: Utilities Committee

FROM: Paula Vandehey, Director of Public Works
Sue Olson, Staff Engineer
Pete Neuberger, Staff Engineer

DATE: December 1, 2020

RE: Approval to single source and award 2021C stormwater consulting services contract for Spartan Drive Apple Creek Culvert and Stormwater Management Practices (SMP) Final Design and Construction Documents with Brown and Caldwell (BC) in an amount not to exceed \$141,767.

The Department of Public Works is requesting approval to single source and award 2021C stormwater consulting services contract for Spartan Drive Apple Creek Culvert and Stormwater Management Practices (SMP) Final Design and Construction Documents with Brown and Caldwell in an amount not to exceed \$141,767. This project is funded through accounts 17014 and 5230.

BC has previously completed the stormwater analysis, 30% preliminary engineering, and 60% plans and permit applications for the Spartan Drive area. The original work was contracted after an RFP process and BC has continued to perform exceptionally well on this project, including design and construction assistance with the culvert and retaining wall at Bear Creek near Sommers Drive and Spartan Drive (Unit AA-19) and three stormwater ponds with road construction associated with Unit H-20. Permits for the Apple Creek stream crossing from the WDNR and ACOE are valid until 2023. Therefore, it will be most efficient to continue with BC to complete the final bidding documents for this phase. OMNNI will be a subconsultant to BC for structural and geotechnical work.

This phase includes:

- Construction of utilities and grade/gravel in Spartan Drive from the east end of Unit H-20 in the Clearwater Creek development to Meade Street
- Construction of the Apple Creek crossing, including a large culvert and end walls approximately 11 feet in height
- Compliance with DNR and ACOE permits limiting time and extent of disturbance within Apple Creek and associated wetlands
- Construction of 2 wet stormwater ponds for water quality and quantity control

All work in this phase is anticipated to be included in one bid package and is currently budgeted in 2022. The City will be designing the utility and roadway work that will be included in the bid package. BC will be designing the culvert and end walls and integrating geotechnical requirements

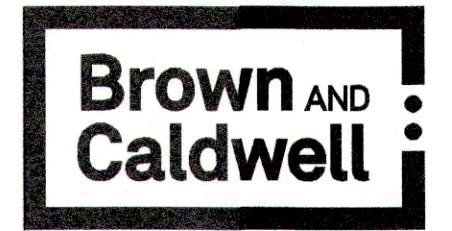
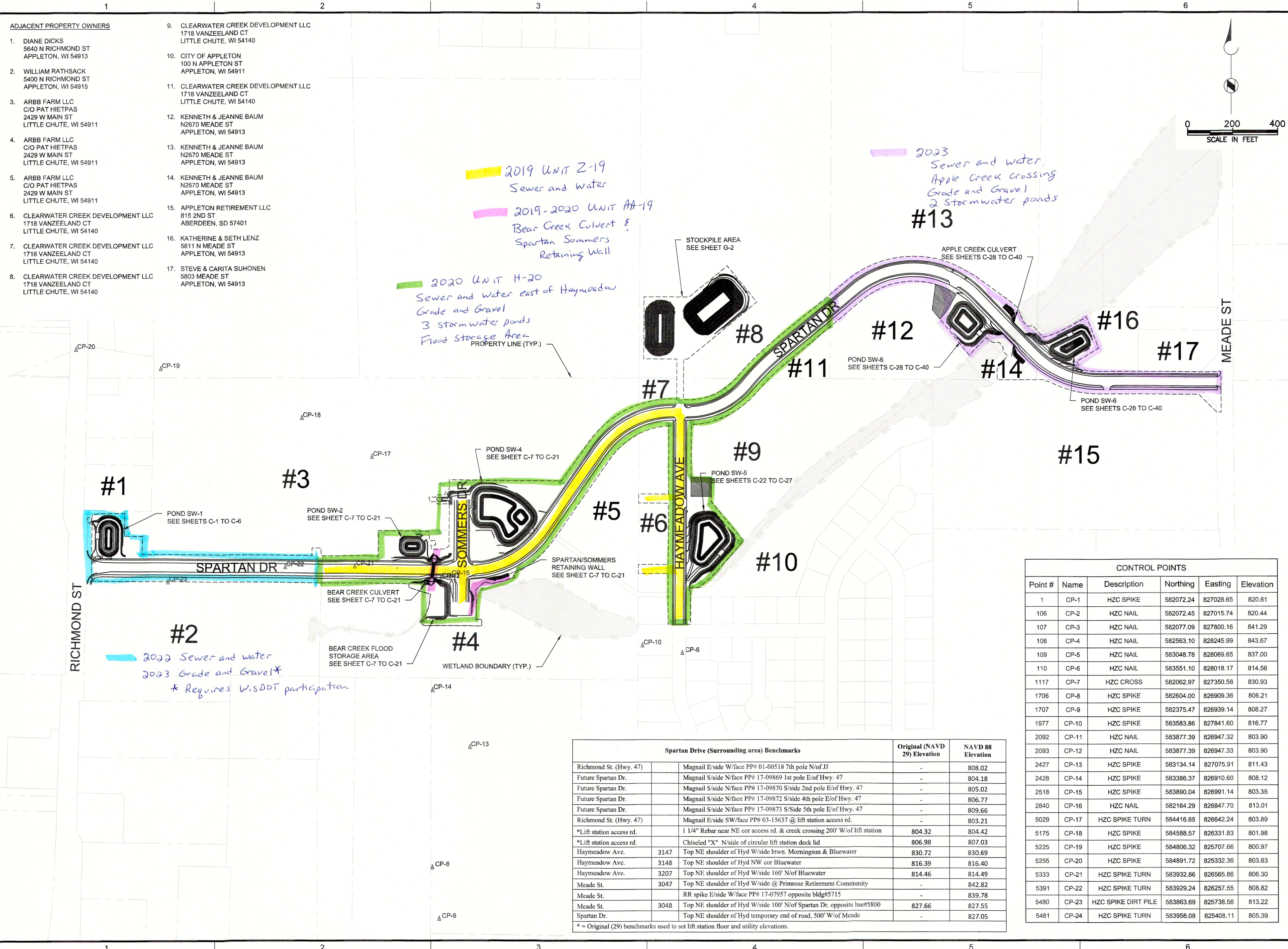
for the ponds and road, since they are adjacent to each other. The City will be designing the grade/gravel, which will be combined with the BC pond plans for construction.

Work performed by BC under this contract will include:

- Prepare agendas and attend approximately 11 meetings during the development of the bidding documents
- Review 60% plans developed for permitting with new information such as soils reports obtained in fall 2020, relocation of septic field for private home adjacent to Spartan Drive, completion of the Primrose development, and changes requested by the Clearwater Creek developer
- Update costs estimates for 2022 budget development
- Prepare final designs and specifications for 2 wet ponds and the Apple Creek culvert and end walls
- Update XPSWMM and WinSLAMM models for the final designs
- Prepare one bid package, incorporating City roadway and utility plans
- Combine earthwork calculations for the stormwater practices and the city street plans
- Provide engineer's estimate for the bid package
- Submit a new application for the WDNR Construction Site Permit, which has expired (WDNR Ch. 30 and ACOE permits remain in effect)
- Provide assistance during bidding to answer contractor questions

Staff anticipates one additional phase to complete Spartan Drive, to connect it to STH 47 (Richmond Street) in conjunction with WisDOT improvements to STH 47 for the connection. There is no schedule at this time for the work with WisDOT. Contracts will be brought forward to Utilities Committee and Council at the appropriate time.

Path: P:\APPLETON CITY OF\150665 SPARTAN SW 60 PERCENT\CAD\2-SHEET\SC-CIVIL\PERMIT\PLANSET FILENAME: 4-G-3_PROJECTLAYOUT.DWG PLOT DATE: 12/14/18 8:24 AM CAD USER: MIKE WEGNER



PERMIT APPLICATION DRAWINGS NOT FOR CONSTRUCTION



SPARTAN DRIVE STORMWATER TREATMENT

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: M WEGNER
DRAWN: M WEGNER
CHECKED: K MATTFIELD

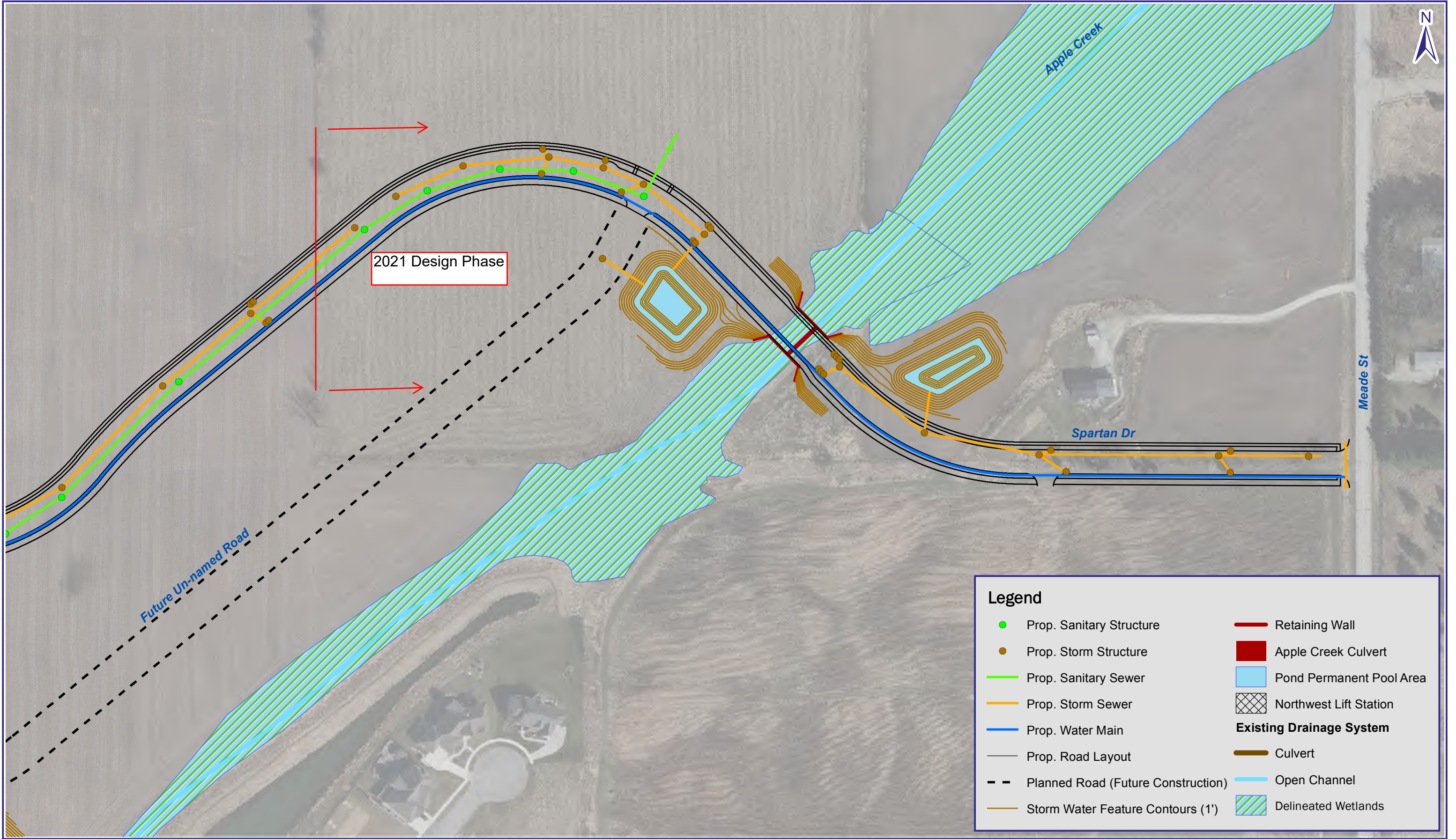
CHECKED:

APPROVED:

FILENAME: 4-G-3_PROJECTLAYOUT.DWG
BC PROJECT NUMBER: 150665
CLIENT PROJECT NUMBER: X-XX

GENERAL PROJECT LAYOUT

DRAWING NUMBER: G-3
SHEET NUMBER: 4 OF 60



Legend

● Prop. Sanitary Structure	— Retaining Wall
● Prop. Storm Structure	■ Apple Creek Culvert
— Prop. Sanitary Sewer	■ Pond Permanent Pool Area
— Prop. Storm Sewer	 Northwest Lift Station
— Prop. Water Main	Existing Drainage System
— Prop. Road Layout	— Culvert
- - Planned Road (Future Construction)	— Open Channel
— Storm Water Feature Contours (1')	 Delineated Wetlands



Figure 1-6C
Proposed Components - East Spartan Area
Spartan Drive Permit Application
City of Appleton, WI

