

Staff Report

for the Engineering Committee Meeting of March 10, 2020

TO: Engineering Committee
FROM: Doug Roderick, P.E., Engineering Manager
DATE: March 3, 2020
SUBJECT: **Project Status Report**

ENGINEERING

RECOMMENDATION:

Review the Engineering Department Project Status Report with the Committee.

BACKGROUND:

This item is to provide information to the Committee members regarding the progress, current status and next action to be taken on the projects in process in the Engineering Department.

BUDGETARY IMPACT:

No budget impact

DR

Attachment:

- Engineering Department Project Status Report

Engineering Department Project Status

| <u>Prty</u> | <u>Proj Mgr</u> | | <u>Facility Name</u> | <u>WO#</u> | <u>Description</u> | <u>Status</u> | <u>Comments</u> |
|---|------------------------|------|---|------------|--|-------------------|---|
| 01 - EXTENDED CEQA (\$200,000) 10151- 52913 | | | | | | | |
| 01 | DOUGLAS RODERICK | 2022 | Banner Cascade Canal | 6593-02 | Banner Cascade Pipeline: Monitoring Canopy Cover and Tree Health Assessment | Post-Construction | Consultant (Stantec) presenting the 2019 Tree Health Assessment at Engineering Committee on March 10, 2020 |
| 02 - PIPELINE REPLACEMENT (\$1,100,000) 10151-52907 | | | | | | | |
| 01 | ADRIAN SCHNEIDER | 2019 | CalTrans Hwy 174 Pipeline Relocation | 2423 | Relocation of 519.12 LF of 10" and 48.53 LF of 8" treated waterlines in the CalTrans right-of-way to accommodate CalTrans storm water work and roadway realignment on Hwy 174 | Construction | Materials will be staged and construction surveying to start the first week of March 2020. Construction to start first or second week in March 2020. Change order to include replacing PVC pipe with ductile and adding slurry backfill in critical location. |
| 02 | ADRIAN SCHNEIDER | 2019 | Long Ravine Campground | 2270 | Replacement of existing 50-year old system with approximately 7460 LF of 1 1/2", 3" and 4" pipe. Also replacing failing concrete storage tank and filter system. | Construction | New piping approximately 95% completed. Two new 15,500 gallon poly tanks will be retrofitted last week in February. Diamond Well Drilling on contract and will provide piping layout design for NID review; filter system and piping ordered and will be installed by end of March. New electrical conduit, wire and pedestals installed and completed. |
| 03 | DOUGLAS RODERICK | 2020 | Lidster Avenue & Country Club Terrace | 2071 | Replacement of deteriorated water mains and services in this area. 4,545 LF of 8" pipe. | Construction | Plans to Maintenance for construction in 2020. Design 100%. |
| 04 | TONIA TABUCCHI HERRERA | 2020 | Christian Life Way at Highway 49 | 6962 | Replace approximately 1500 LF of pipeline with 8" pipeline. Existing pipeline is undersized; has reached its useful life, is difficult to access, existing ROW is inadequate, requires new route for accessibility | Design | Design 10%. Survey is complete. |
| 03 - PRV REPLACEMENT (\$160,000) 10151-52908 | | | | | | | |
| 01 | TONIA TABUCCHI HERRERA | 2019 | Cedar Ridge PRV Replacement | 2366 | Existing PRV station is badly deteriorated with valves in a vault. Replacement station will be above ground. Additional ROW is required | Design | Design 90%. Property owner to be contacted regarding existing easement; easement adjustment is required. |
| 02 | TONIA TABUCCHI HERRERA | 2019 | East Ridge PRV Replacement | 2318 | Existing PRV station is badly deteriorated with valves in a vault. Replacement station will be above ground. Additional ROW is required. | Design | Design 10%. Survey is complete. |
| 03 | DOUGLAS HOBBS | 2020 | Berggren Lane PRV Replacement | 2370 | Replace PRV with 8" pipe connecting Red Dog Rd. with Jasper Agate Court | Design | Design at 50%. In process of obtaining easements. |
| 05 - RAW WATER SYSTEM IMPROV (\$1,200,000) 10151-52910 | | | | | | | |
| 01 | DOUGLAS RODERICK | 2019 | Doty North Canal (PC) | 1031 | Doty North canal which will encase approximately 450 feet of canal and replace siphon #1. | Design | IS/MND released for public review on January 8, 2020. Will apply for CDFW LSA permit now that CEQA document is out for public review. Anticipate having a public hearing at the March 25, 2020 Board meeting. A public information meeting is scheduled for March 12, 2020 at the Placer Maintenance yard. |
| 02 | DOUGLAS HOBBS | 2020 | Santini Siphon 1 | 1098 | Replacement of undersized Siphon with 1500 LF of 188" pipe. | Design | Evaluation for easement acquisition. Design concept in process. Looking at possible alignment routes. Design 10% |
| 03 | DOUGLAS RODERICK | 2020 | South Yuba Canal Repair & Upgrades Ph 1 | 2419 | Repair/Replace segments of So. Yuba Canal | Planning | Final scope is complete. Taking consulting contract to March 11, 2020 Board Meeting for approval. |
| 06 - BACKBONE EXTENSION (\$1,000,000)10151-52911 | | | | | | | |
| 01 | TONIA TABUCCHI HERRERA | 2020 | E. George to LWW Pipeline Project-Phase I | 2255 | Phase I will replace two existing PRVs and install approximately 8653 of 18" pipeline. Replacement PRVs will be above ground and will require ROW. Construction of the pipeline is within County ROW. | Design | Design 90%. Met with property owners at Sunset PRV and new PRV at Ponderosa. Adjusting location based on feedback. New location will be routed for comment. Sunset PRV is part of Phase I to be bid this year. |
| 07 - NON-PROGRAMMATIC, BUDGET 10151-52915 | | | | | | | |
| 01 | DOUGLAS RODERICK | 2021 | Combie I Replacement | 6746 | Combie Phase 1 Pipeline Bypass, 8900 LF of 96" pipe | Construction | Construction ongoing. Approximately 4338 feet of 96" RCP has been installed. Expect final pipe section to be installed by March 6, 2020. Inlet structure complete. On schedule to have in service by March 30, 2020. |

Engineering Department Project Status

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|--|------------------|------|---------------------------------------|--------------|---|--------------|--|
| 07 - NON-PROGRAMMATIC, BUDGET 10151-52915 | | | | | | | |
| 02 | DOUGLAS RODERICK | 2021 | Centennial Water Supply Project | 7013 | Centennial Water Supply Project | Planning | CEQA: Working on AB52 Consultation and Draft Alternatives Analysis. Had meeting with Nevada City Rancheria on January 23, 2020 where they were provided the Cultural Resources Report. Property acquisitions on hold. Quarterly update will be presented at the next Engineering Committee on March 10, 2020. |
| 03 | DOUGLAS HOBBS | 2020 | Alta Sierra Tank Replacement | 6971 | Replace existing Alta Sierra Hypalon-covered reservoir with storage tank | Design | Held kick-off meeting. Design underway. Construction to begin October 2020. |
| 08 - COMMUNITY INVESTMENT (\$600,000) 10151-52912 | | | | | | | |
| 01 | ADRIAN SCHNEIDER | 2019 | Iron Horse DFWLE | 1019 | Construction of 7,206 LF of 8" pipeline along Armstrong Rd., Iron Horse Drive & Brewer Road. | Construction | Piping and services installed and completed. Punch list items being addressed by contractor. Final paving and chip-seal anticipated as early as May (pending weather and paving company availability). Project walk through with property owners scheduled for March 4. |
| 02 | ADRIAN SCHNEIDER | 2020 | Table Meadow Ph 2 DFWLE | 2180 | Assist, Design and Construction of 5,770 LF of 8" pipeline for existing neighborhoods approved by Engineering Committee. | Design | Funding Agreements approved at the February 26, 2020 Board Meeting.Plans being finalized base on internal review & comments. Anticipate bid-ready plan set and specifications by the end of March 2020. |
| 10-1 - HYDRO NON-PROGRAMMATIC 50112-52915 (\$1,250,000) | | | | | | | |
| 01 | KEANE SOMMERS | 2019 | New Hydro Office Property Development | 2084 | New Hydro Office Property Development | Design | Award contract to WLC on December 11, 2019 |
| 10-2 - HYDRO POWERHOUSE IMPROV 50112-52920 (\$1,865,000) | | | | | | | |
| 01 | DARYL NOEL | 2019 | Combie Reservoir | 6943 | Combie South Access Road. Develop approx. 3,000 ft. from south abutment. | Planning | ROW working to acquire rights. |
| 02 | DARYL NOEL | 2019 | COMMS Upgrade | 20150 2-1 | COMMS Upgrade | Planning | Planning phase to identify alternative. |
| 03 | ADRIAN SCHNEIDER | 2019 | Chicago Park Fire Suppression System | 2164 | Upgrade of existing CO2 system (piping, alarms, sensors) to protect Generator. Includes installation of new Clean Agent suppression system for control room and the addition of a fire detection system for electrical cable trays. | Design | Discharge test of existing CO2 system completed 2/26/2020. Comments from hydro staff anticipated to complete Sabah's design/construction plans by end of February. Hydro requesting additions to plans that will increase cost and time to original contract. Installation of mechanical/plumbing portion of system planned to be completed before April 15 deadline. Final electrical connections to follow Hydro's updating of facility's as-builts and review by electrical engineer. |
| 04 | DARYL NOEL | 2019 | Combie South Electrical Upgrades | 2168 | Combie South Electrical Upgrades | Design | Transformer purchased. Starting design. |
| 05 | DARYL NOEL | 2019 | CSPH - Replace Switchgear/ISO Meter | 2210 | CSPH - Replace Switchgear/ISO Meter | Construction | Electrical complete. Working on CAL ISO meter and bucket list. Anticipate completion by May 1, 2020. |
| 06 | DARYL NOEL | 2019 | Bowman Governor | 2234 | Replace and integrate with BoP PLC. | Design | Hydro contracted with AI d'Heurle (dHSI). Working on construction contract. |
| 10-3 - HYDRO DAM & WATER IMPROV 50112-52921 (\$1,700,000) | | | | | | | |
| 01 | MIN CHEN | 2020 | Scotts Flat Spillway Repair | 2094 | Scotts Flat Spillway Repair & Upgrades | Planning | The Spill Crest Stability Analyses are being fine tuned to meet DSOD requirements. The task of configuration of the lower plunge pool to absorb energy from the PMF flow is to be initiated. |
| 02 | MIN CHEN | 2019 | Combie Abutment Scour | 20140 2 | Dam stabilization, abutments protection against scouring, and water supply upgrade | Planning | Photogrammetric survey of the dam and the grounds have been completed. Detailed geologic mapping to locate sound bedrocks is to be completed in March 2020 for the scour potential assessment. |
| 13 - ENGINEERING O&M 10151-NA | | | | | | | |
| 01 | GREG JONES | 2020 | District Wide | 1041 | Raw Water Master Plan / EIR | Planning | Draft Demand and Supply Technical memos being completed. |

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| 13 - ENGINEERING O&M 10151-NA | | | | | | | |
| 02 | TONIA TABUCCHI HERRERA | 2019 | LWW and N. Auburn Water Age Evaluation | 2027 | Model the water age in the LWW and N. Auburn Treated Water Systems. | Study | Final comments forwarded to consultant to incorporate in the draft study. |
| 13-1 - ADMIN CAPITAL 10114-52915 | | | | | | | |
| 01 | TONIA TABUCCHI HERRERA | 2020 | Hemphill Diversion | 7032 | Hemphill Diversion Maintenance Activities to facilitate Fish Passage. Modification of the downstream area of existing Diversion facility with anticipation to improve fish passage. | Design | NOP anticipated release by end of March 2020. Scoping meeting anticipated mid-April 2020. DEIR currently under development. |
| 17 - SEDIMENT REMOVAL PROJECTS (\$650,000) 10151-52914 | | | | | | | |
| 01 | GREG JONES | 2020 | Steephollow Sediment Removal | 6877 | Removal of sediment at Steep Hollow and protection of hydro facilities | Hold | Need funds to get things moving for Channel / Monitoring. ROW has one easement remaining. |
| 02 | ADRIAN SCHNEIDER | 2019 | Loma Rica Reservoir | 2090 | Cleaning of the Loma Rica Reservoir to increase capacity. | Closeout | Anticipate remaining 14,000 cubic yards stockpiled next to reservoir to be placed on airport location. This will complete the sediment program for this location. Communicating with the airport manager and Nevada City Engineering to plan for this project by spring. |
| 03 | ADRIAN SCHNEIDER | 2020 | Greenhorn Sediment Removal | 8515 | Removal accumulated sediment from the Greenhorn Creek arm of Rollins Reservoir. | Planning | Obtaining permits to conduct soil tests in order to provide information for future contractor for soil disposal/sales options. Tests to be done by NV5 during dry conditions. Sediment removal request for quotes to be sent out in 2020. |
| 04 | ADRIAN SCHNEIDER | 2020 | Orr Creek Reservoir | 6963 | Cleaning of Orr Creek Reservoir to increase capacity | Design | Project direction and planning being reviewed by staff. |
| 05 | ADRIAN SCHNEIDER | 2019 | Newtown Reservoir | 6958 | Install permanent bypass pipe & remove accumulated sediment from the reservoir to regain capacity. | Post-Construction | Anticipate removing previous year's stockpile of 700 cubic yards of sediment off site from private property. Potentially removing remaining sediment from reservoir as well. District to use recently installed bypass pipe to divert flows around reservoir to dry out sediment. |
| 06 | GREG JONES | 2019 | Combie Sediment Removal Project | 2135 | Removal of sediment at the east side of Combie Reservoir | Post-Construction | Sediment removal complete. Final disposal of material ongoing. |
| 07 | ADRIAN SCHNEIDER | 2020 | Dutch Flat Afterbay Sediment Removal | 2213 | Remove accumulated sediment from the afterbay to reduce outlet pipe clogging & operation. | Planning | Met with environmental consultant (Janelle Nolan & Associates) on December 12th and reviewed site and potential staging areas. Subsequent CEQA work to follow. |
| 18 - RECREATION (30250-52915) | | | | | | | |
| 01 | DOUGLAS RODERICK | 2020 | Ditch Tender House Scotts Flat | 2102 | Remodel of Ditch Tender House at Scotts Flat Lake | Construction | Final work to be completed by April 2020. |