

# Staff Report

for the Engineering Committee Meeting of May 12, 2020

**TO:** Engineering Committee  
**FROM:** Doug Roderick, P.E., Engineering Manager  
**DATE:** May 5, 2020  
**SUBJECT:** Project Status Report

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***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>
<b>02 - PIPELINE REPLACEMENT (\$1,500,000) 10151-52907</b>							
01	ADRIAN SCHNEIDER	2019	CalTrans Hwy 174 Pipeline Relocation (DIV 2)	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	Closeout	Construction completed, final paving done May 4, 2020.
02	ADRIAN SCHNEIDER	2019	Long Ravine Campground (DIV 2)	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	Remaining work includes installation of filter system and replacing existing pressure pump. Anticipate completion by middle of May, 2020.
03	DOUGLAS RODERICK	2020	Lidster Avenue & Country Club Terrace (DIV 5)	2071	Replacement of deteriorated water mains and services in this area. 4,545 LF of 8" pipe.	Construction	Construction is underway. Work being performed by Maintenance.
04	TONIA TABUCCHI HERRERA	2020	Christian Life Way at Highway 49 (DIV 5)	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.
<b>03 - PRV REPLACEMENT (\$160,000) 10151-52908</b>							
01	TONIA TABUCCHI HERRERA	2019	Cedar Ridge PRV Replacement (DIV 2)	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 (DIV 1)	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 (DIV 1)	2370	Replace PRV with 8" pipe connecting Red Dog Rd. with Jasper Agate Court	Design	Design at 50%. In process of obtaining easements.
<b>05 - RAW WATER SYSTEM IMPROV (\$2,100,000) 10151-52910</b>							
01	DOUGLAS RODERICK	2019	Doty North Canal (PC) (DIV 4)	1031	Doty North canal which will encase approximately 450 feet of canal and replace siphon #1.	Design	Public hearing on the CEQA document scheduled for May 13th Board meeting. Held public information meeting on March 12th. Consultant has reached out to CDFW regarding the LSAA permit. Construction still anticipated for fall of this year.
02	DOUGLAS HOBBS	2020	Santini Siphon 1 (DIV 4)	1098	Replacement of undersized Siphon with 1500 LF of 18" 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 (DIV 1)	2419	Repair/Replace segments of So. Yuba Canal	Planning	Contract with GHD awarded by the Board on March 11, 2020. Held kickoff meeting on April 29th. Site visits still to be determined due to COVID-19. Tunnel inspections to occur during fall outage.
<b>06 - BACKBONE EXTENSION (\$1,700,000) 10151-52911</b>							
01	TONIA TABUCCHI HERRERA	2020	E. George to LWW Pipeline Project-Phase I (DIV 5)	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	New location for Sunset PRV okayed. Appraisal received. Offer package sent to escrow company. Sunset PRV is located in Phase I. Information received from PGE regarding lines near proposed location of Ponderosa PRV, is under review.
<b>07 - NON-PROGRAMMATIC (5,850,000) 10151-52915</b>							
	ADRIAN SCHNEIDER	2020	North Auburn Treatment Plant (DIV 3)	2376	Upgrade of high lift pumps at North Auburn Water Treatment Plant	Planning	Creating Request for Quotes (RFQ) for electrical consultants to design and plan generator install and coordination with existing operation of plant. Second RFQ to be sent out to contractors for purchase & install of generator and motor control items.
01	DOUGLAS RODERICK	2021	Combie I Replacement (DIV 3)	6746	Combie Phase 1 Pipeline Bypass, 8900 LF of 96" pipe	Construction	4,615 feet of 96-inch RCPP has been installed and is in service. Contractor working on removing 36-inch bypass pipe to allow for construction of the two pipe crossings/ramps.
02	DOUGLAS RODERICK	2021	Centennial Water Supply Project (DIV 3 & 4)	7013	Centennial Water Supply Project	Planning	Due to COVID-19, no consulting work or AB52 consultation has taken place since the last update. Next Quarterly update will be presented at the June 9th Engineering Committee meeting.

Engineering Department Project Status

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<b>07 - NON-PROGRAMMATIC (5,850,000) 10151-52915</b>							
03	DOUGLAS HOBBS	2020	Alta Sierra Tank Replacement (DIV 2)	6971	Replace existing Alta Sierra Hypalon-covered reservoir with storage tank	Design	Design underway. Construction to begin October 2020.
<b>08 - COMMUNITY INVESTMENT (\$800,000) 10151-52912</b>							
01	ADRIAN SCHNEIDER	2019	Iron Horse DFWLE (DIV 3)	1019	Construction of 7,206 LF of 8" pipeline along Armstrong Rd., Iron Horse Drive & Brewer Road.	Construction	Anticipate final paving in May, 2020. Waiting for consistent weather and temperatures.
02	ADRIAN SCHNEIDER	2020	Table Meadow Ph 2 DFWLE (DIV 3)	2180	Assist, Design and Construction of 5,770 LF of 8" pipeline for existing neighborhoods approved by Engineering Committee.	Design	Contract awarded to Teichert Construction at April 22, 2020 Board Meeting. Teichert to finalize contract signing and submit with required documents, and scheduling pre-construction activities. Anticipate construction to start in May, 2020.
<b>10-1 - HYDRO NON-PROGRAMMATIC (\$250,000) 50112-52915</b>							
01	KEANE SOMMERS	2019	New Hydro Office Property Development	2084	New Hydro Office Property Development	Design	Award contract to WLC on December 11, 2019
<b>10-2 - HYDRO POWERHOUSE IMPROV (\$1,585,000) 50112-52920</b>							
01	NATHAN DROIVOLD	2020	Dutch Flat #2 Powerhouse Balance of Plant.	2348	Install an expandable balance of plant to monitor critical plant systems such as excess vibration of the turbine and generator, temperature, and flow.	Design	Design contract expected to be fully executed by May 5, 2020 with d'Heurle Systems. Equipment purchase request will go to APC on May 5, 2020.
02	NATHAN DROIVOLD	2020	Chicago Park Powerhouse Governor Replacement	2402	Replace governor, install instrumentation that will enable operators to monitor flow, temperature, and pressure of vital powerhouse components.	Planning	Design for cooling water system upgrades should be completed by May 29, 2020. Remaining project scope for 2021-2022 is being assessed by Hydro.
03	NATHAN DROIVOLD	2019	Combie Reservoir (DIV 3)	6943	Combie South Access Road. Develop approx. 3,000 ft. from south abutment.	Planning	ROW contacted property owners to request an easement donation to improve the existing road and has received unfavorable responses. Hydro will request direction from WHO Committee on May 20, 2020.
04	NATHAN DROIVOLD	2019	COMMS Upgrade	20150 2-1	COMMS Upgrade	Planning	Planning phase to identify alternative.
05	ADRIAN SCHNEIDER	2019	Chicago Park Fire Suppression System (DIV 2)	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	Changes to draft design and additions from HYDRO to be reviewed as change order from Sabah. New visitor entry procedure being developed by District's safety officer. After approval of pending change order, design likely to be revised, reviewed, then finalized. Install of mechanical and plumbing anticipated mid-summer.
06	NATHAN DROIVOLD	2019	Combie South Electrical Upgrades	2168	Combie South Electrical Upgrades	Design	Transformer purchased. Starting design.
07	NATHAN DROIVOLD	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.
08	NATHAN DROIVOLD	2019	Bowman Governor	2234	Replace and integrate with BoP PLC.	Design	Hydro contracted with Al d'Heurle (dHSI). Working on construction contract.
09		2020	Dutch Flat #2 Powerhouse Fire Suppression System	2240	Designing, installing and commissioning a new CO2 fire suppression system for the Dutch Flat #2 Powerhouse.	Planning	Hydro is preparing the Project Definition Memo to hand this off to Engineering.
10	NATHAN DROIVOLD	2020	Rollins Powerhouse Balance of Plant (DIV 2)	2393	Install an expandable balance of plant to monitor critical plant systems such as excess vibration of the turbine and generator, temperature, and flow.	Planning	Hydro is defining the project scope and preparing the Project Definition Memo.
11	NATHAN DROIVOLD	2020	Rollins Powerhouse Relay Protection Upgrade (DIV 2)	2394	Replace aging relay protection system to improve protection of the powerhouse relay, transformer, and generator.	Planning	Hydro is defining the project scope and preparing the Project Definition Memo.
<b>10-3 - HYDRO DAM &amp; WATER IMPROV (\$1,595,000) 50112-52921</b>							
01	MIN CHEN	2020	Scotts Flat Spillway Repair (DIV 1)	2094	Scotts Flat Spillway Repair & Upgrades	Planning	The upper crest structure stability re-evaluation report has been submitted to DSOD for approval. HDR will prepare a plan for physical hydraulic modeling of the spillway, including the lower plunge pool. The plan will be submitted to DSOD and FERC for review and approval June, 2020, before the physical model is built and tested.

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<b>10-3 - HYDRO DAM &amp; WATER IMPROV (\$1,595,000) 50112-52921</b>							
02	MIN CHEN	2019	Combie Abutment Scour (DIV 3)	201402	Dam stabilization, abutments protection against scouring, and water supply upgrade	Planning	The photogrammetric survey and geologic mapping have been completed, and the data are being evaluated by the geologic engineer for the bedrock scouring potential at the abutments.
<b>13 - ENGINEERING O&amp;M 10151-NA</b>							
01	GREG JONES	2020	District Wide	1041	Raw Water Master Plan / EIR	Planning	Draft Demand and Supply Technical memos being completed.
02	TONIA TABUCCHI HERRERA	2019	LWW and N. Auburn Water Age Evaluation (DIV 3&5)	2027	Model the water age in the LWW and N. Auburn Treated Water Systems.	Study	Consultants comments are under review.
<b>13-1 - ADMIN CAPITAL 10114-52915</b>							
01	TONIA TABUCCHI HERRERA	2020	Hemphill Diversion (DIV 4)	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	Scope of the project has expanded. District reissued RFP for CEQA. Proposals are under review.
<b>17 - SEDIMENT REMOVAL PROJECTS (\$1,200,000) 10151-52914</b>							
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 (DIV 2)	2090	Cleaning of the Loma Rica Reservoir to increase capacity.	Closeout	Removing remaining stockpile. 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 (DIV 2)	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 (DIV 3)	6963	Cleaning of Orr Creek Reservoir to increase capacity	Design	Project direction and planning being reviewed by staff.
05	ADRIAN SCHNEIDER	2019	Newtown Reservoir (DIV 1)	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 (DIV 3)	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	Creating and finalizing project description. Further development of CEQA document by consultant
<b>18 - RECREATION (\$315,000) 30250-52915</b>							
01	DOUGLAS RODERICK	2020	Ditch Tender House Scotts Flat (DIV 1)	2102	Remodel of Ditch Tender House at Scotts Flat Lake	Construction	Maintenance department completing final work dependent on maintenance schedule. Work should be completed in May.