

**Engineering & Hydroelectric Project Status Report
January 31, 2025**

Priority Score	Project No.	Project Name	Description	Status	Comments	Current Year Budget	Budget Years	DIV	PM
CIP Budgeted Projects									
68	2645	Combie and Ophir 2 & 3 Siphon Replacement	Design and construct 853 lf of pipeline to replace Orr Creek siphon, 3,292 lf of pipeline to replace Dry Creek siphon and 1,392 lf of pipeline to replace Rock Creek siphon. All siphons require crossing of various creeks, Hwy 49, and hospital property, requiring extensive permitting and CEQA	Construction	Orr Creek Siphon contract with C&D was approved by the Board of Directors on August 28, 2024. On January 22, 2025, the Board approved an amendment to the 2025 CIP budget to finalize the project in 2025. Permit applications submitted, CDFW permit in draft form to be modified and changed. Construction is expected to start in August-September 2025. Dry Creek design is to be completed in 2025, and construction is scheduled for 2026. Rock Creek Siphon design starts in the middle of 2026, with construction rescheduled to 2027.	\$ 850,000	2024-2025	4	AS
53	8099-4	Maben Canal IV	Rehabilitate and enlarge the Maben Canal, placing approximately 662 feet of 18" pipe within the existing canal alignment, and replacing an existing 12" pipe/siphon with a new 24" pipe 480 feet long. A water flow measuring device will be installed at the end of the new pipe installation as part of the project.	Construction	All piping of the canal and the replacement of the existing siphon will be done by January 23, 2025. Final outage for canal is scheduled for February 10-14 and will include installation of control valve, parshall flume, and pressure testing of the new pipe. Final cleanup through the end of February 2025. On January 22, 2025, the Board approved an amendment to the 2025 CIP budget to finalize the project in 2025.	\$ 725,382	2024-2025	3	AS
57	2376	North Auburn Treatment Plant	Rebuild the motor control center for highlift pumps and convert to variable frequency drives.	Construction	All electrical conduits have been installed, and asphaltting completed. Building generator structure walls installed. On January 22, 2025, the Board approved an amendment to the 2025 CIP budget to finalize the project in 2025. Waiting for revised schedule based on supplier's availability, and start of new electrical subcontractor.	\$ 525,840	2022-2025	3	AS
73	2716	Lake Wildwood Treatment Plant Chemical Tanks	This project is necessary to provide redundant storage of water treatment chemicals at the plant. The goal is to have two tanks for each chemical so repairs and maintenance can be completed without interruption. To ensure basic water treatment needs when supplier availability is questionable.	Planning	Project assigned.	\$ 140,000	2025	5	TTH
72	2568	Lake Wildwood Treatment Plant	Treatment plant upgrades include replacing clearwells, pumps, drying beds, sediment ponds, intake structure, and electrical.	Design	Board approved contract with HDR on December 11, 2024. Kick-off meeting scheduled for February 10, 2025.	\$ 200,000	2024-2026	5	TTH
70	2721	Summit Ridge Tank Replacement	The Summit Ridge Tank has experienced corrosion to the exterior coating and has rusted through. The tank is ceramic coated and cannot be repaired.	Planning	Project assigned.	\$ 325,000	2025	1	AS
69	2378	Loma Rica Water Treatment Plant	Improve chlorine contact time for treatment plant effluent.	Planning	Project assigned.	\$ 80,000	2025	1	TTH

**Engineering & Hydroelectric Project Status Report
November 30, 2024**

Priority Score	Project No.	Project Name	Description	Status	Comments	Current Year Budget	Budget Years	DIV	PM
----------------	-------------	--------------	-------------	--------	----------	---------------------	--------------	-----	----

CIP Budgeted Projects

62	2685	Christian Life Way - CalTrans Pipeline Relocation	Replace and relocate the District's infrastructure and easements in the area designated in the CalTrans Hwy 49 widening project. The Christian Life Way Project was postponed previously in anticipation of the CalTrans Project.	Planning	District's submitted relocation plans for Hwy 49 crossing have been approved by Caltrans. Additional plans for relocation of existing pipe under Bethel Church Way is being routed internally for comment. Construction to start Fall 2025. Caltrans Encroachment permit will be needed.	\$ 350,000	2025	5	AS
49	2718	Meadowbrook Pipeline Replacement	Service lines are located in backyards and tree roots have broken the mainline several times in 2017, 2018, and 2019. Placer County had a five-year moratorium after Bell Road was repaved, which halted the project.	Planning	Project assigned.	\$ 60,000	2025	3	AS
53	2690	Hughes Road Pipeline Replacement	The original 20" steel pipe has leaked as it crosses under the Lower Grass Valley Canal. It is a primary transmission main and will be replaced with approximately 1,120 feet of new pipe. The 520-foot section at the end of Litton Drive will be connected with a 10" pipe to provide redundancy and connectivity.	Design	Request for quotes sent out January 17, due February 14, 2025. Finalizing Right-of-Entry for 2nd property related to Litton Extension. Will seek Board approval to add project to 2025 CIP budget for construction to start March 2025	TBD	2024	2	AS
62	2720	Smith Road PRV	The existing pressure-reducing valve (PRV) has reached its service life and will be compromised with the widening of HWY 49. The station needs to be relocated to reduce the service main pressure across LaBarr Meadows property. The project is necessary for CalTrans widening of HWY 49 and is the only source of water supply across HWY 49 in the Smith Road area.	Planning	Project assigned.	\$ 150,000	2025	5	ND
53	2715	East Ridge PRV	Replace an aged, underground PRV station currently located within a driveway entrance.	Planning	Project assigned.	\$ 150,000	2025	1	AS
55	2719	Silver Way PRV	The existing PRV station is difficult to service and only has a 4-inch valve for fire flow.	Planning	Project assigned.	\$ 150,000	2025	2	ND
69	2713	Cascade at Banner Gaging Station	This section of the Cascade Canal utilizes a rated section for measurement. Rated sections lack consistent reads and require extra manpower. This project includes the installation of a gaging station with accurate, automated reporting. The Cascade is a high-priority canal as it provides source water for a majority of the Nevada County drinking water supply.	Planning	Project assigned.	\$ 120,000	2025	1	ND
68	2717	Lower Grass Valley Canal Gaging Station	The head gate and gaging station for the Lower Grass Canal need replacement.	Planning	Project assigned.	\$ 120,000	2025	1	AS

**Engineering & Hydroelectric Project Status Report
November 30, 2024**

Priority Score	Project No.	Project Name	Description	Status	Comments	Current Year Budget	Budget Years	DIV	PM
----------------	-------------	--------------	-------------	--------	----------	---------------------	--------------	-----	----

CIP Budgeted Projects

65	2706	China Pipe Crossing at Rifflebox	The elevated pipe crossing over Riffle Box Creek has rusted through and is collapsing around the support structure. The canal provides water supply to the Smartsville Water Treatment Plant and many in-home irrigation water users.	Pre-Construction	Plans finalized in 2024. Maintenance to construct in 2025. Access to crane is critical at location to remove existing pipe and replace with new pipe	\$ 150,000	2025	5	AS
73	2714	DS Canal Shotgun Culverts (Red Dog Rd.)	The twin culvert crossing under Red Dog Road limits maximum flows in the DS Canal. The twin culvert design is susceptible to catching debris between the pipes. The DS Canal is a main artery for water supply for Nevada County, including multiple drinking water facilities.	Planning	Project assigned.	\$ 300,000	2025	1	TTH
57	2602	DS Canal Shotgun Culverts	Replace existing Shotgun culverts with 4' x 8' Box Culvert to allow for higher summer flows.	Pre-Construction	Installation of culvert delayed due to PGE constraints on water flow in upper country.	n/a	2023	1	TTH
57	2336	Tarr Diversion Wolf Creek	Replace existing diversion structure with a new concrete structure. Existing diversion structure is deteriorated and needs major repairs.	Planning	Data from the surveyor was reviewed. Feedback will be provided.	\$ 200,000	2023-2025	2	TTH
52	2373	Pet Hill Extension	The 4" pipe is maxed at head (Moratorium). Project replaces undersized head gate and pipe. Approximately 800' of canal section.	Planning	Right of Way meeting with property owner's attorney regarding the easement on January 28, 2025.	n/a		5	TTH

**Engineering & Hydroelectric Project Status Report
November 30, 2024**

Priority Score	Project No.	Project Name	Description	Status	Comments	Current Year Budget	Budget Years	DIV	PM
----------------	-------------	--------------	-------------	--------	----------	---------------------	--------------	-----	----

CIP Budgeted Projects (Admin)

67	2689	Charging Stations - GV	Installation of new PG&E service meters and transformers, and installation of two electric vehicle charging stations.	Design	A new task order was executed for design and procurement. A kick-off meeting was held on November 13, 2024.	\$ 800,000	2024-2026	N/A	SP
62	2687	ADA Transition Plan	Review the District offices and buildings to ensure compliance with the Americans with Disabilities Act (ADA) and develop a plan to make improvements as necessary.	Planning	The Board of Directors awarded a consulting agreement with Bureau Veritas at the October 23, 2024 Board meeting. Notice of Award and Agreement sent to consultant. Kick-off meeting held on November 21, 2024	\$ 150,000	2024-2028	N/A	SP
62	2647	Ramp Repairs - Main Office - Operations	Existing ramp is failing and requires extensive reconstruction. Replace existing ramp and bring it up to current design standards.	Design	Contract with Morrison Structures has been executed and design is underway. Anticipate draft by February 2025. Permits and approval from the City of Grass Valley in March 2025. Bidding and Construction in April/May 2025.	\$ 750,000	2024-2025	N/A	AS
	2729; 2730; 2731	PLC Replacements	Replace the Programmable Logic Controllers at the Lake of the Pines, E. George, and North Auburn Water Treatment Plants	Design	Materials ordered	\$ 200,000	2025	1&3	PG
	2688	Automated Gaging Head Gates	Replacement of manual headgate control structures with automated gates that will allow for real-time adjustment and measurement. The existing stations have met their life expectancy.	Planning	A purchase order has been created. Gates will be installed at the end of irrigation season.	\$ 35,000	2024-2025	N/A	CC

CIP Budgeted Projects (Hydro)

72	2432	New Hydro Field Office	Complete office/building renovations, make repairs to the roof, install perimeter fencing, upgrade communications, and install a backup generator.	Construction	Construction of the roof overlay is complete and the sign-off inspection is scheduled for 02/03/2025. Once the warranty is issued and permits are closed, this phase of the project will be complete. The NID Board of Directors approved the contract award for the architectural design scope on January 22, 2025, and contract negotiations are underway.	\$2,000,000	2023-2025	N/A	ND
----	------	------------------------	--	--------------	--	-------------	-----------	-----	----

**Engineering & Hydroelectric Project Status Report
November 30, 2024**

Priority Score	Project No.	Project Name	Description	Status	Comments	Current Year Budget	Budget Years	DIV	PM
CIP Budgeted Projects (Hydro)									
84	2094	Scotts Flat Spillway	Design and replacement of Scotts Flat Spillway	Design	Received comments from DSOD on the 60% submittal, along with comments regarding the upper plunge pool. Comments will be responded to and included in the 90% design submittal. CEQA/NEPA development is ongoing. Scheduling meeting with DSOD to discuss required replacement of upper plunge pool. Potential for additional scope and costs for the upper plunge pool design.	\$ 600,000	2022-2027	N/A	DIR of ENG
77	2726	Scotts Flat Powerhouse Penstock Pipe Seismic Upgrades	Secure the penstock to the supports for stability during a seismic event.	Planning	Project assigned.	\$ 50,000	2025	N/A	Hydro
85	2655	Chicago Park Powerhouse Refurbishment	Replace or upgrade the existing turbine, main transformer, and their appurtenances. Replace deteriorated generator windings, insulation, poles, and other generator appurtenances. The last rewind was completed in 1991, and test results are showing signs of needing to complete another.	Planning	A request for proposals for the specification development and procurement of a new GSU transformer is being developed and will be released in 2025.	\$ 500,000	2023-2025	N/A	ND
80	2658	French Lake LLO Gate Improvements	The existing hydraulic lines, pump, and ram are showing signs of degradation and must be refurbished or replaced to ensure proper and safe operation of the low-level outlet valve for French Lake and to mitigate potential maintenance-related failures.	Planning	Engineering to meet with Hydro to discuss approach. Need to submit draft QCIP to FERC for approval and extension request from last year. Likely sending out RFP to dive companies in February. Construction to take place August-October 2025.	\$ 200,000	2024-2025	N/A	AS
77	2392	Rollins Powerhouse Governor	Replace or upgrade the existing governor and appurtenances.	Design	The 30% design is expected by January 31, 2025, for NID review.	\$ 100,000	2023-2025	N/A	ND
81	2727	South Yuba 8.5 Mile Slide Repair	Repair the active landslide above the South Yuba Canal.	Planning	Project assigned.	\$ 700,000	2025	N/A	DIR of ENG
69	2339	Rucker Creek Spillgate	Replace existing radial gate at Rucker Creek Diversion with an overshot gate to improve safety and operational performance	Planning	Final Plans and Specifications completed and sent to FERC on September 29 for review and approval.	\$ -	TBD	N/A	Hydro

**Engineering & Hydroelectric Project Status Report
November 30, 2024**

Priority Score	Project No.	Project Name	Description	Status	Comments	Current Year Budget	Budget Years	DIV	PM
----------------	-------------	--------------	-------------	--------	----------	---------------------	--------------	-----	----

CIP Budgeted Projects (Hydro)

83	2395	Deer Creek Powerhouse Exciter Replacement	Replace the failing exciter at Deer Creek Powerhouse	Design	The first design submittal has been reviewed and approved by NID which included a revision to the equipment specification. A revised quote for the excitation system was received on January 27, 2025. This purchase will go to the NID Board of Directors for approval in February.	\$ 245,000	2024-2025	N/A	ND
82	2722	Deer Creek Powerhouse Generator Breaker	Replace the existing generator breaker and switchgear to reduce safety risks for onsite staff.	Planning	Project assigned.	\$ 300,000	2025-2026	N/A	Hyrdo
78	2665	Deer Creek Powerhouse Communications Upgrades	Establish a new data link for critical information transfer from KLOVE Tower/Deer Creek Powerhouse to Hydro HQ.	Planning	Project assigned.	\$ 150,000	2025	N/A	Hydro
70	2483	Dutch Flat #2 Powerhouse Backup Generator	Design and install a new backup generator.	Design	Switchgear delivery was delayed but finally received after the outage. Expect installation to occur with the revised outage schedule in Spring.	\$ 23,135	2024-2025	N/A	TTH
82	2723	Dutch Flat #2 RTU Replacement	Replace end-of-life remote terminal unit (RTU) with modern and more reliable equipment.	Planning	Project assigned.	\$ 100,000	2025	N/A	TTH
50	2724	Dutch Flat Flume Repair	Make repairs to improve the reliability of the Dutch Flat Flume.	Planning	Project assigned.	\$ 100,000	2025-2026	N/A	Hydro
75	2725	Dutch Flat Forebay Drain Line Repair	Inspect the blanket drain and write an engineering evaluation per FERC Part 12D Recommendation.	Planning	Project assigned.	\$ 75,000	2025-2026	N/A	Hydro
70	2667	SCADA Upgrades	Update hardware and software associated with NID Hydro's SCADA system.	Planning	Project assigned.	\$ 100,000	2025	N/A	Hydro
80	2359	Bowman North Dam Upstream Lining Improvements	Repair the failing lining on the upstream face of Bowman North Dam that has been damaged by extreme freeze/thaw action of the concrete. Repairs are required by the DSOD	Planning	FERC approval is pending. Hydro Maintenance Staff is performing maintenance level work on joints and surficial spalls as the reservoir elevation falls.	\$ 100,000	2024-2025	N/A	Hydro

**Engineering & Hydroelectric Project Status Report
November 30, 2024**

Priority Score	Project No.	Project Name	Description	Status	Comments	Current Year Budget	Budget Years	DIV	PM
Budgeted Projects (Non-Capital)									
01	2611	Plan for Water Hydrology	Updating the existing unimpaired hydrology and HEC-ResSim reservoir operations model and development of a land-use-based integrated demand model.	Planning	Final technical documents have been posted on the District's website at www.nidwater.com/plan-for-water . This will be removed from future project status updates.	TBD	2022-2025	All	DR
02	N/A	Capacity Fee Study	Updating the existing unimpaired hydrology and HEC-ResSim reservoir operations model and development of a land-use-based integrated demand model.	Study	Staff gathering documentation for consultant. Working on 5-yr CIP to inform study. Presented draft 5-YR CIP to the Board on May 22, 2024. Capacity study by fourth quarter 2024.	\$ 32,950	2025	All	DR
03	N/A	Water Rate Study	Development of a comprehensive capacity charge update study designed to recover cost of infrastructure and assets benefitting new development.	Study	Staff gathering documentation for the consultant. Presented draft 5-YR CIP to the Board on May 22, 2024. 5-YR CIP to consultant for water rate study.	\$ 44,500	2025	All	DR

Developer Installed Private Fire Service (PFS)

01	2649	Perry Builders	Installation of a 6-inch Private Fire Service	Design	Waiting for Title Insurance.	N/A		5	TTH
02	2686	Ranch House	Installation of an 8-inch Private Fire Service	Construction	Construction completed. Waiting for As-builts.	N/A		1	AS
03	2695	Driftwood Village	Installation of an 8-inch Private Fire Service	Planning	Received second plan submittal.	N/A		4	TTH
04	2700	Sienna Terrace	Installation of a 6-inch Private Fire Service	Construction	Construction almost complete, waiting on hot box delivery.	N/A		4	ND
05	2710	Sutton Resource Center	Installation of a 6-inch Private Fire Service	Planning	Plans approved by District on January 15, 2025.	N/A		1	AS
06	2711	LWW Maintenance Facility	Installation of an 8-inch Private Fire Service	Planning	Plans submitted for plan check	N/A		5	TTH
07	2712	Country Inn & Suites	Installation of a 6-inch Private Fire Service	Design	Waiting for Title Insurance.	N/A		1	AS

**Engineering & Hydroelectric Project Status Report
November 30, 2024**

Priority Score	Project No.	Project Name	Description	Status	Comments	Current Year Budget	Budget Years	DIV	PM
----------------	-------------	--------------	-------------	--------	----------	---------------------	--------------	-----	----

Developer Installed Waterline Extensions

01	2566	Queen Lil Place	Installation of approx 695 lf of 8-inch waterline, 486 lf of 4-inch waterline and 1 fire hydrant	Plan-Check	Waiting for easement and design changes to place pipe on private road (Developer).	N/A		1	AS
02	2543	Loma Rica Ranch	Installing approximately 9,700 lf of waterline, 17 fire hydrants, 1 PRV station, 235 new services	Close out	Construction completed. Waiting for subdivision map to record.	N/A		1	DR
03	2613	Towntalk Village	Installing approximately 935 lf of waterline on Towntalk Rd. 221 lf of 4-inch, 1 fire hydrant, and all appurtenances. 11 new services.	Plan-Check	Nelson Engineering to provide signed conveyance agreement. Plans approved.	N/A		1	AS
04	2642	Kemper Oaks II	Installation of approximately 2,000 lf of 8-inch and 300 lf of 10-inch, five public fire hydrants, and all appurtenances to serve 47 new lots.	Plan-Check	Plans approved for Phase I. Developer will renew the project with the County and resume with future phase planning. Spill and access easements received.	N/A		4	AS
05	2707	Ventana Sierra Drive	Developer Installed Waterline Extension of approximately 550 lineal feet of waterline, including one public fire hydrant and all appurtenances to serve new lots.	Planning	Plans approved. Conveyance agreement signed. Going to the Board of Directors for consent at the December 11, 2024 meeting.	N/A		1	AS
06	2708	Sherwin Williams	Installation of approximately 160 lineal feet of waterline, including a private fire service to serve Sherwin Williams.	Planning	Plans approved. Conveyance agreement signed. Going to the Board of Directors for consent at the December 11, 2024 meeting.	N/A		1	TTH
07	2733	Rustic Woods	Installation of approximately 614 lineal feet of 8-inch waterline; including one fire hydrant and all appurtenances to serve 9 new lots						TBD

Developer Installed Canal Encasements

02	2608	Hemphill Canal Encasement	Encase Hemphill Canal through Esplanade	Construction	Contractor has received final punch list items.	N/A		4	TTH
03	2679	Allison Ranch Canal	GV RV Resort Canal Enclosure	Planning	Plans approved. Conveyance agreement signed. Going to the Board of Directors for consent at the December 11, 2024 meeting.	N/A		5	AS