



SOUTH TAHOE PUBLIC UTILITY DISTRICT 2018 Contractors Forum

January 17, 2018



Presented by: John Thiel, PE, MBA
Engineering Department Manager





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Agenda

- Capital Improvement Program
- Upcoming Construction Projects
- Specification Changes
- Good Faith Effort Process
- Discussion



Proposed 10_{YR} Water CIP

			24	25	26	27	28	10-YR TOTALS	
									20,000
									30,000
3	Caltrans Projects	18,19,20	30,000	30,000	30,000				60,000
4	SCADA Upgrades	18 to 28	100,000	100,000	100,000	100,000	100,000	50,000	750,000
5	System Planning	18,19		150,000					150,000
6	Water Repair Emergencies	TBD		500,000					500,000
7	Groundwater Management Plan	18 to 28	100,000	150,000	100,000	50,000	50,000	75,000	675,000
8	Well Destruction Program	18	60,000	60,000					60,000
9	Water Resource Development	18 to 23	80,000	50,000			1,000,000	1,000,000	2,050,000
10	Christmas Valley Tank Road, Paving and Drainage	17	45,000	45,000					45,000
11	Waterline - Ponderosa (1)	17	600,000	175,000					175,000
12	Waterline - Marlette (1)	18	750,000	500,000	250,000				750,000
13	Sierra Blvd Waterline Improvements	18		400,000					400,000
14	Meters - Phase 4 (1)	18	1,500,000	2,720,000					2,720,000
15	Meters - Phase 5a (1)	19		1,500,000	2,720,000				4,220,000
16	Meters - Phase 5b (1)	20			300,000	1,060,000			1,360,000
17	Keller-Heavenly Zone Improvements (3)	19, 20		700,000	1,250,000	1,250,000			3,200,000
18	Heavenly Tank Coating, Improvements	19		150,000	100,000				250,000
19	Keller Booster Improvements	18,19		75,000	150,000	100,000			325,000
20	David Lane Booster Improvements, Genset	18,19		75,000	250,000	200,000			525,000
21	2018 Hydrants	18	250,000	250,000					250,000
22	Pine Valley PRV	18		75,000					75,000
23	2019 Hydrants	19		500,000	500,000				1,000,000
24	Upper Montgomery Booster, Fire Pump, Waterline (1)	19		100,000	600,000	600,000			1,300,000
25	H-St Zone Booster, Fire Pump	19		100,000	150,000	150,000			400,000
26	Critical Waterline Improvements	21 to 24				100,000	500,000	500,000	2,100,000
27	PRV Improvements at 6 locations						400,000	400,000	800,000
28	Elks Club to Busch Waterline, PRV						700,000	700,000	1,400,000
29	Bowers Waterline						800,000	800,000	1,600,000
30	New PRV at Washoan-Nadowa						80,000		80,000
31	New PRV at Glen Eagles	20					80,000		80,000
32	Rocky Point Waterline	18 to 28					1,000,000	1,100,000	2,100,000
33	Sierra Tract Phase 1 Waterline	18 to 28						800,000	1,600,000
34	Pine Valley - Susquehanna Waterline	18 to 28							350,000
35	Ski Run Waterline	18 to 28					700,000	700,000	1,400,000
36	Black Bart Waterline	18 to 28					600,000	600,000	1,200,000
37	Gardner Mountain Waterline	18 to 28						750,000	1,500,000
38	Brockway Waterline	18 to 28						800,000	800,000
39	Sierra Tract Phase 2 Waterline	18 to 28						600,000	600,000
40	Tank Site and Access Improvements	23						250,000	500,000
41	Tank Seismic Evaluation	23						150,000	150,000
42	Electrical Improvements at 16 sites	24						250,000	250,000
43	Bijou Waterline	18 to 28						650,000	1,300,000
44	Tank Coatings	26,27						250,000	500,000
45	Wildwood Waterline	27,28							1,400,000
46	Meyers Waterline	27,28						800,000	2,200,000
47	Sierra Tract Phase 3 Waterline	27,28						900,000	1,800,000
48	Stateline Waterline	27,28						900,000	1,800,000
			WATER TOTALS:		8,455,000	6,500,000	3,610,000	3,710,000	4,650,000

Near Term = \$20M

10YR total = \$46M

(1) Loans executed
 (2) Loans in progress
 (3) Future loans

Water - Capital Improvement Program

Waterline - Marlette (1)	18	550,000
Sierra Blvd Waterline Improvements	18	400,000
Meters - Phase 4 (1)	18	4,220,000
Meters - Phase 5a (1)	19	4,220,000
Meters - Phase 5b (1)	20	1,360,000
2018 Hydrants	18	400,000
Pine Valley PRV	18	75,000
2019 Hydrants	19	1,000,000
Keller-Heavenly Zone Improvements (3)	19, 20	3,200,000
Heavenly Tank Coating, Improvements	19, 20	250,000
Keller Booster Improvements	20, 21	325,000
David Lane Booster Improvements, Genset	20, 21	525,000
Upper Montgomery Booster, Fire Pump, Waterline (1)	20, 21	1,300,000
H-St Zone Booster, Fire Pump	20, 21	400,000

Proposed 10_{YR} Sewer CIP

										24	25	26	27	28	10-YR TOTALS	
															20,000	
															30,000	
3	Caltrans Projects	18, 19, 20	30,000	20,000	20,000										40,000	
4	SCADA Upgrades	18 to 28	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000	
5	Collection System Planning	18, 19		150,000											150,000	
6	WWTP Piping - evaluation, protection, replacement	TBD	100,000	100,000											100,000	
7	Sewer Repair Emergencies	TBD		500,000											500,000	
8	Sewer Crossings Condition Assessment, Improvements	19 to 28	100,000	100,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	2,800,000	
9	Upper Truckee Marsh Adaptive Management	18, 19, 20	100,000	75,000	50,000										125,000	
10	FLL Sewer Upgrade Projects	18, 19, 20	400,000	400,000	400,000										800,000	
11	LPPS 700hp Pump	19		410,000											410,000	
12	WWTP Master Plan	18, 19, 20	50,000	75,000	75,000										150,000	
13	Tallac Creek Sewer Crossing	19, 20, 21	100,000	100,000	200,000										300,000	
14	Plant Generator (2)	18, 19	600,000	3,600,000	1,000,000										4,600,000	
15	Breakpoint Modification	18, 19	400,000	400,000											400,000	
17	FM Bypass - Al Tahoe	18	25,000	450,000											450,000	
18	FM Bypass - Upper Truckee	19	25,000	250,000	250,000										500,000	
19	Wet Well Improvements, Coatings, Repairs	19, 20	50,000	50,000	50,000										100,000	
20	Pump Station Assessment, Improvements (3)	19, 20, 21, 22	250,000	1,000,000	2,000,000	2,000,000	1,000,000	1,000,000							7,000,000	
21	Blower System Improvements	19, 20, TBD	100,000	100,000	150,000	150,000				750,000	750,000				1,900,000	
22	Emergency Blower Generator	19, 20		125,000	100,000										225,000	
23	Pump Station Switch Gear Improvements	19, 20, TBD		50,000	50,000	50,000									150,000	
24	DVR Roads	19		150,000	150,000										300,000	
25	ICR Vault Improvements	19		50,000	50,000										100,000	
26	Shop Facilities Master Plan	19		100,000	100,000										200,000	
27	Lower Shop Vehicle Covered Parking	20			200,000	200,000									400,000	
28	Plant Paving and Drainage Improvements	21, 22, 23	100,000			250,000	250,000								500,000	
29	Lower, Fountain Shops Improvements (3)	23					1,000,000	2,000,000							3,000,000	
30	LPPS Tank Coating and Cathodic Protection	21				200,000									200,000	
31	LPPS Valve and Piping Improvements	21				200,000									200,000	
32	WWTP Ballast Ponds	21				750,000	750,000								1,500,000	
33	Secondary Clarifiers Rehab (3)	22, 23				250,000	1,500,000	1,250,000							3,000,000	
34	Recycled Water Master Plan	20			100,000	150,000									250,000	
35	Harvey Place Emergency Storage Ponds (3)						100,000	100,000	1,500,000	1,400,000	1,400,000				4,500,000	
36	Filters 1,2 Rehab							500,000	500,000						1,000,000	
37	Mixed Liquor Splitter Box; gates, weir, coatings							180,000							180,000	
38	Emergency PS Improvements, conc rehab							120,000							120,000	
39	AB Splitter Box, Influent Channel Rehab							100,000							100,000	
40	Collection System Master Plan Update	23						100,000							100,000	
41	Plant electrical upgrades	23, 24						50,000	600,000						650,000	
42	EQ Basins, Remove piping, concrete repair	22						650,000	650,000						1,300,000	
43	Centrifuge Replacement	25								800,000	800,000				1,600,000	
44	RAS Building Replacement (3)	26, 27, 28									500,000	3,000,000	2,500,000		6,000,000	
45	Snowshoe Phase 2	27, 28										1,000,000	1,000,000		2,000,000	
46	Filters 3,4 Rehab	28											1,100,000		1,100,000	
47	Bio Bldg Odor Control	28											50,000		50,000	
48	Sewer Replacement 89 and 5th	24							1,000,000						1,000,000	
49	Bijou Relief Sewer	25, 26							500,000	1,500,000					2,000,000	
50	Sewer Replacement - Master Plan Priority 1	26, 27	6													
			Near Term = \$25M													
			10YR total = \$56M													
(1) Loans executed																
(2) Loans in progress			SEWER TOTALS:	8,605,000	5,545,000	4,600,000	5,000,000	5,800,000								
(3) Future loans																

Sewer - Capital Improvement Program

Plant Generator (2)	18,19	5,300,000
Breakpoint Modification	18,19	800,000
FM Bypass - Al Tahoe	18	475,000
FM Bypass - Upper Truckee	19, 20	525,000
Pump Station Assessment, Improvements (3)	19,20,21,22	7,250,000
Blower System Improvements	19, 20, TBD	400,000
Emergency Blower Generator	19, 20	225,000
DVR Roads	19	300,000
Shop Facilities Master Plan	19	200,000
Lower Shop Vehicle Covered Parking	20	400,000
Plant Paving and Drainage Improvements	21,22,23	600,000
Lower, Fountain Shops Improvements (3)	23	3,000,000
WWTP Ballast Ponds	21	1,500,000
Secondary Clarifiers Rehab (3)	22,23	3,000,000



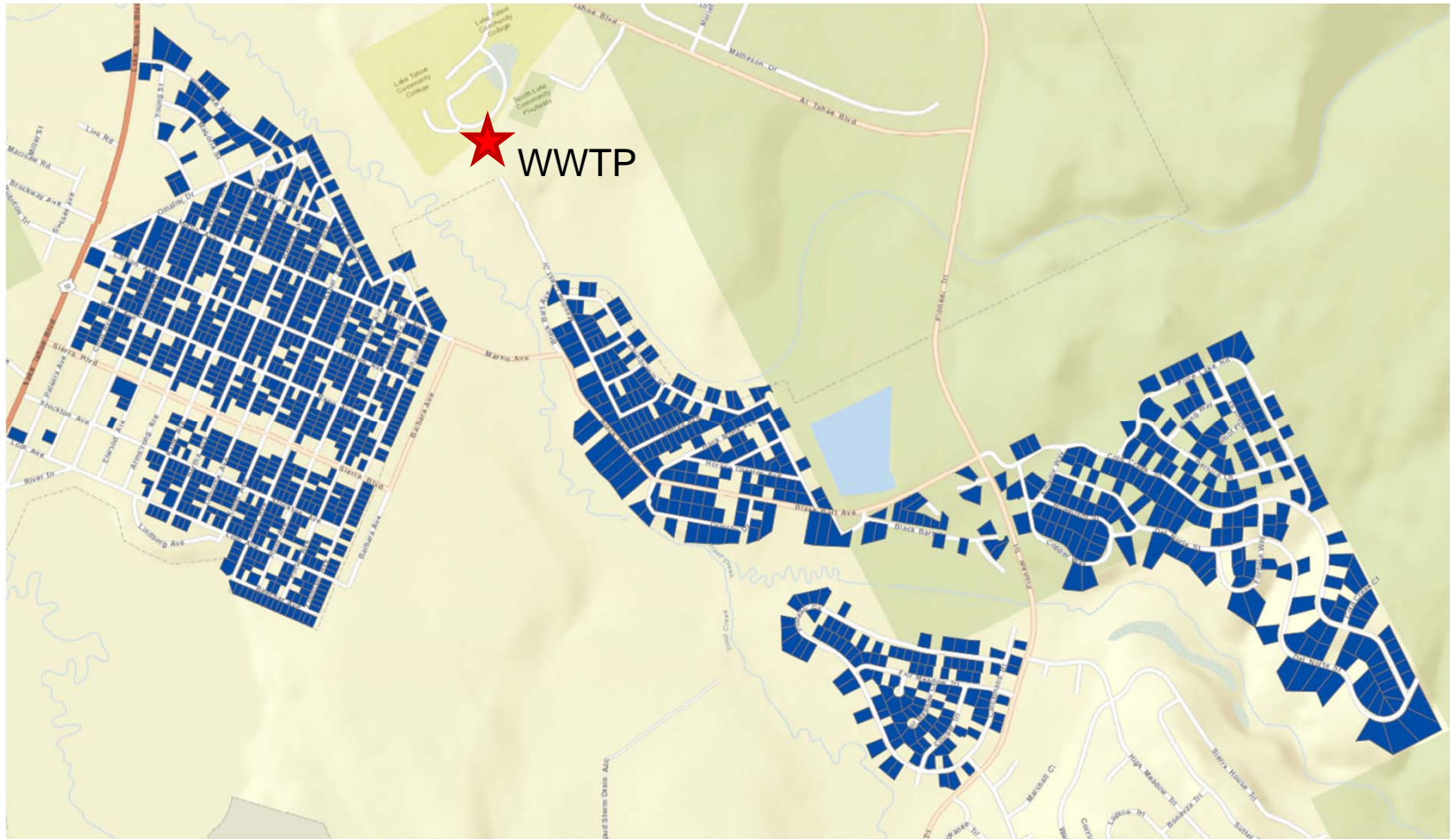
Upcoming Projects - 2018

- Water Meters
 - Trevor Coolidge
- Marlette Waterline
 - Julie Ryan
- Hydrants, FM Bypass, PRV
 - Julie Ryan
- Emergency Generator
 - Steve Caswell





Water Meter Installation Project



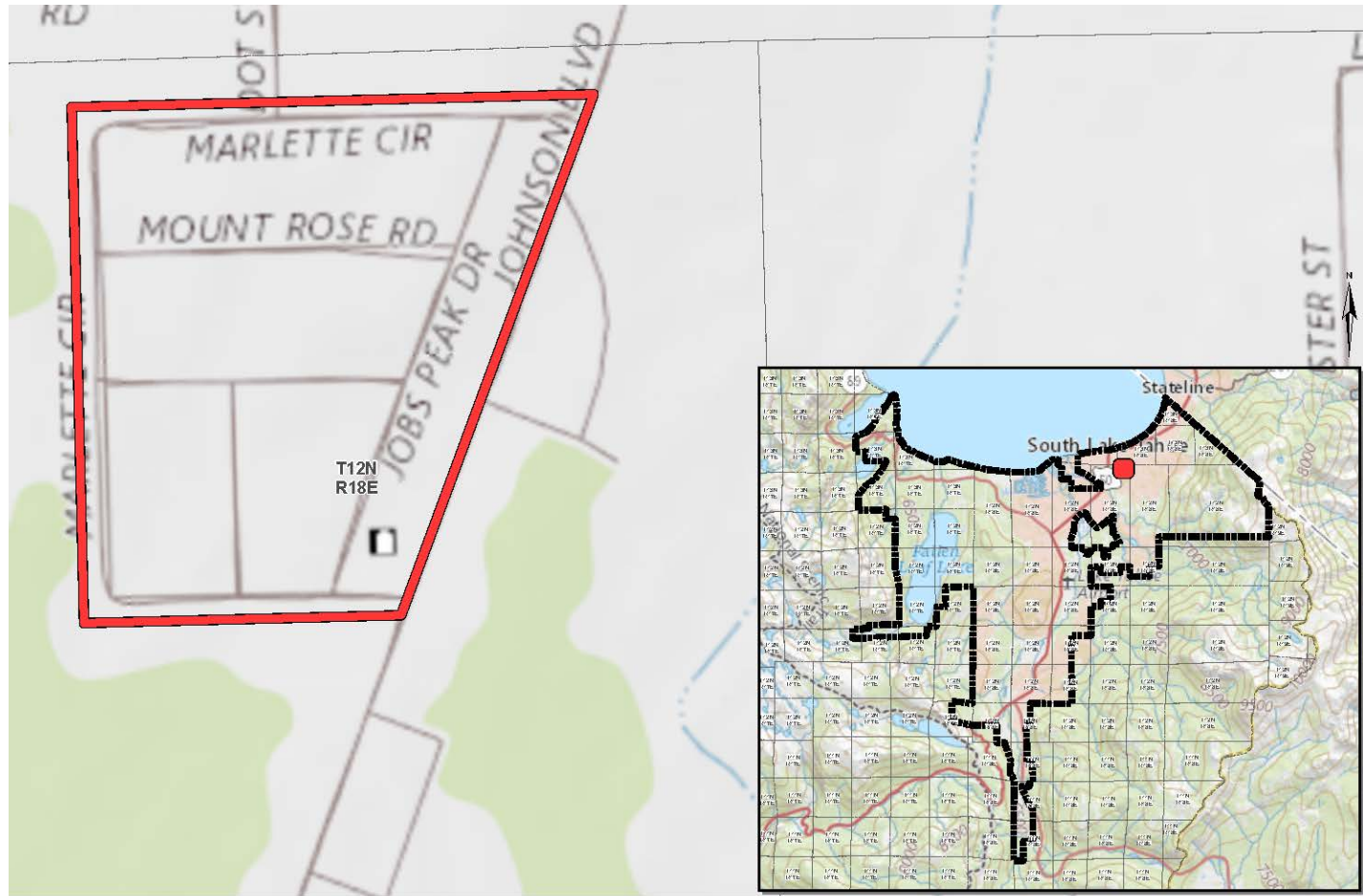


Water Meter Installation Project

- 2018 Project includes 1465 ¾” and 1” water meter installations
- Construction estimate \$3.3M-\$3.9M, financed via Clean Water State Revolving Fund
- District provides: meters & MXUs, meter covers, frames, valve boxes, and staging yard at WWTP
- Key Dates:
 - ✓ Advertisement – January 18th
 - ✓ Pre-bid meeting – February 1st @ 9:30 am
 - ✓ Bids due – March 6th
 - ✓ Contractor On-Site – May 1 to September 30 (approx.)
- Project Contact: Trevor Coolidge, (530) 543-6278



Marlette Waterline Project



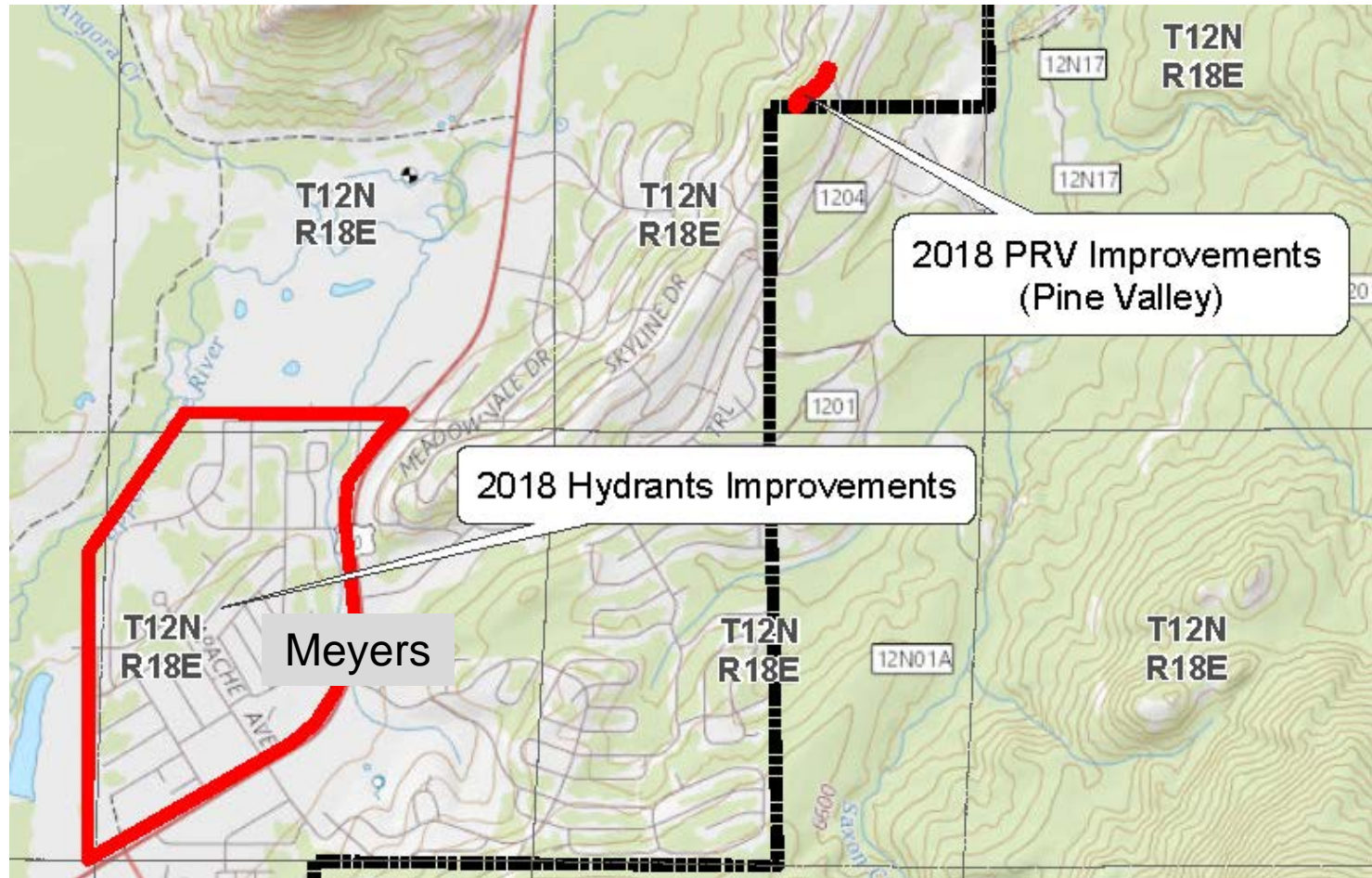


Marlette Waterline Project

- Scope: 1120 lf of 6" water main, 39 services and 110 meters
- Engineer's Estimate: approx. \$550K
- Financing: Drinking Water State Revolving Fund
- Key Dates:
 - ✓ Advertisement – February 16, 2018
 - ✓ Pre-bid meeting – March 5, 2018 @ 2pm (tentative)
 - ✓ Bids due – April 4, 2018 @ 2pm (tentative)
 - ✓ Contractor On-Site – May 1 to July 30 (approx.)
- Project Contact: Julie Ryan, (530) 543-6267



Misc. System Improvements Project

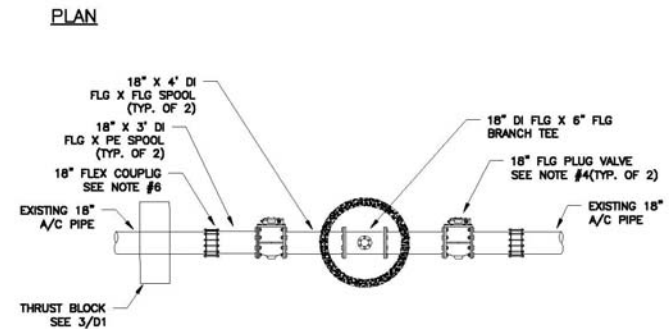
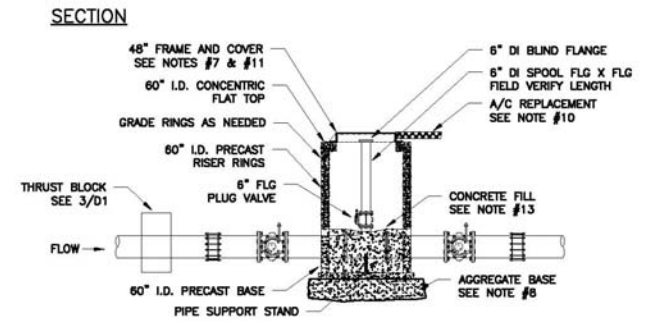




Al Tahoe Force Main Bypass



Conceptual Detail (in progress)





Misc. System Improvements Project

- Scope:
 - **Meyers Area Fire Hydrants**: ±18 fire hydrant installations and ±10 mainline valve replacements on 4" AC Pipe.
 - **Al Tahoe Force Main Bypass**: 3 vaults with piping and valving on 18" AC Sanitary Sewer Force Main.
 - **Pine Valley PRV Improvements**: Pressure Reducing Valve Replacement with addition of instrumentation and controls.
- Engineer's Estimate: approx. \$900K
- Financing: USFS Fire Partnership and US Bureau of Reclamation
- Key Dates:
 - ✓ Advertisement – May 4, 2018
 - ✓ Pre-bid meeting – May 21, 2018 (tentative)
 - ✓ Bids due – June 20, 2018 (tentative)
 - ✓ Contractor On-Site – August 1 to October 15, 2018 (approx.)
- Project Contact: Julie Ryan, (530) 543-6267



WWTP Emergency Generator

- Replacement of existing Emergency Generator and Main Switchgear
- Demolition of Breakpoint Chamber and replacement with underground piping
- Replacement of Emergency Pump diesel motor with electric motor and VFD
- Low bid – Cal Electro, Inc. \$6.1M; NTP end of January
- Possible FEMA grant
- Project Contact: Stephen Caswell, (530) 543-6202



Specification Updates

- Claims Resolution changes to be consistent with AB 626.
- Insurance Broker Certification
- Good Faith Effort
 - SBA **and/or** MBDA
 - Posting no longer possible on MBDA web portal
 - Other documented efforts





Discussion Points

- Projects
- Specifications
- Bid Schedule
- Bid Climate
- Process Improvements
- Reducing Risk
- Increasing Cost-effectiveness
- Building Partnerships
- Anything Else





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