

Regular Meeting of the Board of Directors

9751 Merced Falls Road
JULY 20, 2020 at 1:00 p.m.

Mission Statement: *The Lake Don Pedro CSD is dedicated to providing our customers with ample quantities of high quality water meeting all standards, in a fiscally responsible manner.*

AGENDA

1. CALL TO ORDER: Presiding Officer: Establish Quorum, Pledge of Allegiance:

2. PUBLIC COMMENT:

Any person may address the Board at this time on any matter within the jurisdiction of the Board that is NOT ON THE AGENDA A maximum of three minutes is allowed each person and a maximum of 20 minutes per topic. Any person wishing to address the Board on an item ON THE AGENDA will be given the opportunity at that time. Speakers are encouraged to consult District Management or Directors prior to agenda preparation regarding any District matters, as no action will be taken on non-agenda issues.

3. PRESENTATION ONLY:

- a. Presiding Officer's Report
- b. General Manager's Report:
 - Grant / Study Updates
 - Current District Projects
 - Operations Update
 - Administrative Update

4. APPROVAL OF CONSENT AGENDA: The following items may all be approved in one motion or considered separately as determined appropriate by the President

- a. Read and file the Treasurer's Report for the period ending June 2020 including summary of claims paid
- b. Approval of the Minutes of the Regular Meeting of June 15, 2020

5. PUBLIC HEARING: a Notice of Public Hearing has been published and hearing to be held for the purpose of receiving public input and comment as required for the following revenue collection and budget related items. At the conclusion of the public Hearing, the Board will consider adoption of Resolution approving the various actions.

- a. Adoption of a Resolution Approving the Placement of the Availability Billing and Delinquent Account balances on the Mariposa and Tuolumne County 2020-2021 Tax Rolls for collection
- b. Adoption of a Resolution Approving the LDPCSD 2020-21 Final Budget

Meeting agendas and written materials supporting agenda items, if produced, can be received by the public for free in advance of the meeting by any of the following options:

- A paper copy viewed at the District office, 9751 Merced Falls Rd., La Grange, CA 95329 during business hours or mailed pursuant to a written request and payment of associated mailing fees
- An electronic copy received by email. Note - a form requesting email delivery of agendas and/or meeting materials must be completed a minimum of one week in advance of the meeting
- Viewed on the Board page of the District's website
- A limited number of copies of agenda materials will also be available at the meeting

Americans with Disabilities Act Compliance: If you require special assistance to participate in Board Meetings, please contact the LDPCSD Board Secretary at (209) 852-2251 Ext. 2. Advance notification will enable the District to make reasonable arrangements to insure accessibility

6. DISCUSSION AND ACTION ITEMS:

- a. Approval of an Estimate for Ceqa/Nepa Environmental review for the Deep Water Intake Project from Augustine Planning Associates
- b. Adoption of a Resolution Calling for a General District Election in Mariposa County
- c. Adoption of a Resolution Calling for a General District Election in Tuolumne County
- d. Approval of AT&T Cell Site Option and Lease Agreement #13787672
- e. Discussion regarding the Final Draft of the USDA PER for the Water Intake Pump Station Project

7. ADJOURNMENT:

Meeting agendas and written materials supporting agenda items, if produced, can be received by the public for free in advance of the meeting by any of the following options:

- A paper copy viewed at the District office, 9751 Merced Falls Rd., La Grange, CA 95329 during business hours or mailed pursuant to a written request and payment of associated mailing fees
- An electronic copy received by email. Note - a form requesting email delivery of agendas and/or meeting materials must be completed a minimum of one week in advance of the meeting
- Viewed on the Board page of the District's website
- A limited number of copies of agenda materials will also be available at the meeting

Americans with Disabilities Act Compliance: If you require special assistance to participate in Board Meetings, please contact the LDPCSD Board Secretary at (209) 852-2251 Ext. 2. Advance notification will enable the District to make reasonable arrangements to insure accessibility



Lake Don Pedro Community Services District

GENERAL MANAGER'S REPORT

July 14, 2020

As the temperatures increase naturally water demand rises. We are experiencing an influx of water main/service line leaks at this time. We are doing everything in our power to minimize the interruptions in water services at this time. Please continue notifying the District when leaks are spotted. We appreciate your patience!

In addition to finding me in my office, I can be reached at the following:

- District phone – (209) 984-6082
- E-mail - Patrick@ldpcsd.org

Grant/Study Updates

- **Water Rate Study.** Postponed at this time.
- **PER.** The final draft has been submitted to the USDA for review. Upon approval our next step is beginning the environmental reviews of our potential project **Notification**
- **CEQA.** The District recently received an estimate to perform all the environmental documentation and technical studies for our Raw water Intake Project. **ACTION**

Current District Projects

- **WHOLE SYSTEM METER AUDIT.** 27 meters were replaced in June. These meters were not capturing consumer usage. District staff are in the process of visually inspecting each service within our system. This time allows for minor repairs to be made as well as gathering all pertinent information on the meter. A flow test is performed if an adjacent water nozzle is nearby. **September 2020**

- **EMERGENCY LEAK CREW.** We have been averaging two to three new leaks a week so far this summer. Since our last meeting staff have replaced 6 service lines, performed 2 water main repairs, and place 2 emergency bands on service lines. **ONGOING**
- **TANK INSPECTION/CLEANING.** The Districts raw water, and central tank are currently being cleaned and inspected. Once complete the District will receive a thorough report and video footage. I am confident the cleaning of our raw water tank will improve overall water quality prior to the treatment process. This potentially can save the District the labor expense of our constant backwashing. In addition there should be a reduction in chemical costs.
- **BARGE RENOVATION.** The pumps have been set and our Trolley system is close to complete. **9/1/2020.**

Operations

- **SYSTEM METER AUDIT.** Staff continue visiting meters within our district. Collecting all pertinent information and making any minor repairs or corrections needed. 27 non-operable meters were replaced in June.
- **SERVICE ORDERS.** Since our last meeting operations staff have performed 39 service order requests for District customers. 27 faulty meters were replaced, 4 leaks were called in and various meter reads were requested.
- **EMERGENCY LEAK CREW.** We have completed 6 service line upgrades, 2 water main repairs, and 2 emergency bands placed.
- **SITE INSPECTIONS.** A weekly inspection is performed on ALL District sites. Routine maintenance is performed and any issue found are reported and addressed as soon as the schedule permits.
- **VEHICLES/EQUIPMENT.** All District vehicles are up to date on maintenance schedules. Staff recently identified an issue with our backhoe overheating. A belt was replaced the equipment was serviced and operations staff is using this piece of equipment as I type. Anything we can handle in house greatly aides the District.
- **MONTHLY METER READS.** Staff performed 1463 monthly meter reads for billing.
- **WATER SAMPLES.** Working with our water lab under the guidance of the SWRCB, District staff grab water samples typically on Thursdays throughout the month. The amount of samples required to maintain our system increase each year.

Administrative

- **(PER)**. District staff have been extremely busy gathering any pertinent information for our preliminary engineering report. The Final report was recently submitted. We are awaiting a response, and then will move on to our environmental review.
- **AT&T LEASE AGREEMENT**. We recently received a negotiated increase in the already agreed upon monthly lease amount. **ACTION**
- **RATE STUDY. POSTPONED**
- **WEBINARS**. I participated in a PG&E PSPS information webinar.
- **EMPLOYEE PERFORMANCE EVALUATIONS**. The second of all full-time District employees biannual performance evaluations were recently completed. These evaluations help all staff involved to maintain communication, and share expectations in a clear manor. **COMPLETE**
- **WATER SERVICE RELOCATION**. We have been working with a District resident on the relocation of their existing service line. District staff will perform the water service construction. The District with contract out the asphalt repairs. **SCHEDULED**

Sincerely,

Patrick McGowan
General Manager

EXCHEQUER

JULY 2020

MERCED IRRIGATION DISTRICT DAILY WATER TABULATION AND USE REPORT FOR THE MONTH OF JULY

DATE	EXCHEQUER RESERVOIR FT ELEVATION	(+)(-) FT ELEVATION	EXCHEQUER RESERVOIR AF STORAGE	(+)(-) FT STORAGE AF CHANGE	AVE. PH DRAFT CFS 24 HOURS	ACRE FEET DISCHARGED 24 HOURS	AVERAGE INFLOW CFS 24 HOURS	TOTAL ACRE FT DISCHARGED YEAR TO DATE	PRECIPITATION (IN)		DATE	TEMPERATURE*			EXCHEQUER ACRE FEET SPILLED	EXCHEQUER ACRE FEET BYPASSED	WEATHER	AVERAGE DISCHARGE CFS	EXCHEQUER DISCHARGE ACRE FEET	LEAKAGE WEIR CFS	GROSS GENERATION KWH	
									DAILY	SEASON TOTAL		HIGH	LOW	OBS								
1	819.31	-0.59	725.837	-3,230	1.864	3,696	264	304,126	0.00	0.00	1	94	67	71	0	50	CLEAR	1,893	3,754	4	1,330,000	
2	818.74	-0.57	722,727	-3,110	1,749	3,468	210	307,652	0.00	0.00	2	93	67	72	0	50	CLEAR	1,778	3,526	4	1,240,000	
3	818.20	-0.54	719,791	-2,936	1,652	3,276	201	310,986	0.00	0.00	3	93	67	73	0	50	CLEAR	1,681	3,334	4	1,180,000	
4	817.72	-0.48	717,189	-2,602	1,526	3,026	243	314,070	0.00	0.00	4	96	68	73	0	50	CLEAR	1,555	3,084	4	1,040,000	
5	817.20	-0.52	714,380	-2,809	1,589	3,151	202	317,279	0.00	0.00	5	97	67	71	0	50	CLEAR	1,618	3,209	40	1,090,000	
6	816.60	-0.60	711,148	-3,232	1,746	3,463	147	320,802	0.00	0.00	6	95	64	67	0	50	CLEAR	1,777	3,523	5	1,250,000	
7	815.79	-0.81	706,805	-4,343	2,221	4,405	61	325,265	0.00	0.00	7	91	66	74	0	50	CLEAR	2,251	4,463	4	1,630,000	
8	815.03	-0.76	702,750	-4,055	2,227	4,416	211	329,739	0.00	0.00	8	95	69	76	0	50	CLEAR	2,256	4,474	4	1,570,000	
9	813.72	-1.31	695,804	-6,946	2,211	4,384	270	337,221	0.00	0.00	9	95	70	77	0	3,090	CLEAR	3,773	7,482	4	1,650,000	
10	812.59	-1.13	689,857	-5,947	2,087	4,139	367	343,895	0.00	0.00	10	98	72	81	0	2,527	CLEAR	3,366	6,674	4	1,560,000	
11	811.25	-1.34	682,859	-6,998	1,932	3,831	368	351,622	0.00	0.00	11	102	74	83	0	3,888	CLEAR	3,897	7,727	4	1,440,000	
12	809.90	-1.35	675,868	-6,991	1,920	3,609	404	359,415	0.00	0.00	12	102	72	79	0	4,176	CLEAR	3,930	7,793	4	1,350,000	
13	808.52	-1.38	668,781	-7,087	2,283	4,527	390	367,275	0.00	0.00	13	98	68	73	0	3,325	CLEAR	3,964	7,860	4	1,660,000	
14	807.07	-1.45	661,396	-7,385	2,354	4,668	409	375,471	0.00	0.00	14	94	69	71	0	3,520	CLEAR	4,133	8,196	4	1,690,000	
15											15											
16											16											
17											17											
18											18											
19											19											
20											20											
21											21											
22											22											
23											23											
24											24											
25											25											
26											26											
27											27											
28											28											
29											29											
30											30											
31											31											

LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
Water Audit

Water Distribution System:

Date (mo/yyr)	Plant Eff Meter Reading (ccf)	(A) Plant Eff Meter Corrected (ccf)	Central Tank Level (feet)	(B) Central Tank Volume (cu. ft.)	Enebro Tank Level (feet)	(C) Enebro Tank Volume (cu. ft.)	Alamo Tank Level (feet)	(D) Alamo Tank Volume (cu. ft.)	Coronado Tank Level (feet)	(E) Coronado Tank Volume (cu. ft.)	Lazo Tank Level (feet)	(F) Lazo Tank Volume (cu. ft.)	Arbolada Tank Level (feet)	(G) Arbolada Tank Volume (cu. ft.)	Sturtevant Tank Level (feet)	(H) Sturtevant Tank Volume (cu. ft.)	Customer Meters Readings (ccf)	(I) Customer Meters Corrected (ccf)
Current	753,735	753,735	12.30	104,487	21.70	18,559.98	6.20	23,860.40	22.30	49,197.89	16.20	9,275.40	25.10	55,375.20	24.90	64,933.97	23,195	23,195
Last:	727,999	727,999	26	220,867	22	18,645.51	6	24,630.09	20	43,903.05	18	10,248.74	24	52,507.17	23	49,639.13	16,760	16,760
Difference:		25,736	-13.70	-116,379.67	-0.10	-85.53	-0.20	-769.69	2.40	5,294.84	-1.70	-973.34	1.30	2,868.04	2.40	5,294.84		6,435

Other metered and unmetered uses (J):

Item	**Method Measured	Quantity (ccf)
Fire fighting		
Other hydrant usage		922 (ccf)
Main flushing, Backwash		
Bulk water sales		
Repaired leaks		
Water quality testing		
Tank drainage or overflow		
Other: Main Breaks	Water in mainlines	901 (ccf)
Other:		
Total (ccf): (G)		1823 (ccf)

Totals for Zone:

Flow into System (A):	25,736.00 (ccf)
Change in Storage (B+C+D+E+F+G+H)	-1,047.51 (ccf)
Flow out of Zone (I+J):	25,018 (ccf)

Real and Apparent Treated Water Loss: **1,766 CCF =**

Pumped from Lake	Pumped from Wells	Total Pumped	Change in RW Storage	Used at Plant	Loss in Transmission
83.22	8.80	72.02	0.66	3.00	11.32

11.32 AC-FT for period: 05/27/20 through 08/29/20 System Loss, % 7%

LAKE DON PEDRO COMMUNITY SERVICES DISTRICT

Treasurer's Report

Reporting Period: June 2020

The district ended the month of June 2020 with the following balances in our accounts:

* All bank accounts verified against bank statements

Restricted:		
Investment - LAIF	\$	173,414
Total Restricted:		<u>\$ 173,414</u>
Unrestricted:		
Checking	\$	76,485
Money Market - Working Capital	\$	859,837
Petty Cash	\$	<u>125</u>
Total Unrestricted:		<u>\$ 936,447</u>
Total Restricted & Unrestricted:		<u>\$ 1,109,861</u>

The district ended June 2020 with the following amounts affecting our financial status:

	Jun-2020	Year to Date
Sales & Business Revenue:	\$ 143,997	\$ 1,523,787
Total Operating Expenses:	\$ (105,173)	\$ (1,265,167)
Non-Operating Income/Expense:	\$ (13,605)	\$ (123,523)
Water Drought Income/Expense:	\$ (2,759)	\$ 315,416
Change in Net Assets (P&L):	\$ 22,460	\$ 450,513
Net Cash Flow:	\$ 43,009	\$ 172,858

Accounts Receivable:

Billing Time Frame	Utility Billing	Availability Billing	A/R Other	A/R Accrue	A/R Water IRWMP	A/R Water DWR
Current	\$ 28,296	\$ -	\$ -	\$ 127,264	\$ -	\$ -
> 30 Days	\$ 729	\$ -	\$ -	\$ -	\$ -	\$ -
> 60 Days	\$ 11,024	\$ -	\$ -	\$ -	\$ -	\$ -
> 90 Days	\$ 10,541	\$ -	\$ -	\$ -	\$ -	\$ -
> 120 Days	\$ 6,111	\$ -	\$ 5,241	\$ -	\$ -	\$ -
Credits	\$ (19,450)					
Total	\$ 37,251	\$ -	\$ 5,241	\$ 127,264	\$ -	\$ -
Total Combined	\$ 164,515		\$ 5,241		\$ -	
 G/L Balance	 \$ 164,515		 \$ 5,241		 \$ -	
Difference	\$ -		\$ -			\$ -

* Amount of availability payments received: \$185,874

* Amount of availability payments outstanding: \$0

Accounts Payables:

Payable Time Frame	A/P Trade	A/P Accruals	A/P Water Accrual
Current	\$ 33,900	\$ -	\$ 10,317
> 30 Days	\$ -	\$ -	\$ 7,695
> 60 Days	\$ -	\$ -	\$ 6,773
> 90 Days	\$ -	\$ -	\$ 14,014
Credits	\$ -	\$ -	\$ -
Total	\$ 33,900	\$ -	\$ 38,799
 G/L Balance	 \$ 33,900	 \$ -	 \$ 38,799
Difference	\$0	\$0	\$0

“ I certify that the District investments have been made in accordance with the Investment Policy. I further certify that the District has adequate revenue to cover its operating expenses for the next six months, in accordance with California Government Code Sections 53646 (b) (2) and (3) respectively”.

Name	Title	Date
------	-------	------

Statement of Revenues and Expenses (P&L)
 June 2020 & Year-To-Date Versus 6/30/20 Approved Budget

		June 20	June vs Budget %	2019-2020 YTD	YTD vs Budget %	2019-2020 Budget	Remaining Budget
Revenue							
01-0-3010-301	Meter Reconnection Fee	50	#DIV/0!	400	#DIV/0!	-	(400)
01-0-3010-302	Donated Capital - Meters Curre	5,000	33.33%	90,000	599.98%	15,000	(75,000)
01-0-4010-400	Water Sales Residential	46,055	15.37%	353,287	117.91%	299,627	(53,659)
01-0-4010-402	Water Availability Revenue	15,463	8.24%	184,848	98.55%	187,573	2,725
01-0-4010-403	Water Service Charges	81,028	8.46%	964,119	100.67%	957,732	(6,387)
01-0-4020-410	Interest Income - LAIF	-	0.00%	3,987	88.40%	4,510	523
01-0-4020-413	Int Inc Penalties - Customer	36	0.13%	20,937	75.60%	27,694	6,757
01-0-4020-414	Transfer Fee Income	900	15.00%	6,800	113.33%	6,000	(800)
01-0-4020-415	Other Income*	110	1.40%	12,911	163.97%	7,874	(5,037)
01-0-4020-416	Meter Set Fee	500	11.90%	10,000	238.10%	4,200	(5,800)
01-0-4020-900	Hydrant Service Charge	-	0.00%	239	71.77%	333	94
01-0-4020-901	Hydrant Rental	-	0.00%	560	72.92%	768	208
01-0-4020-902	Hydrant Consumption	-	0.00%	1,767	69.75%	2,533	766
01-0-4020-999	Avail Fee Income	-	0.00%	1,767	99.76%	1,771	4
01-0-4040-100	Lease Fee	3,691	10.58%	36,054	103.35%	34,884	(1,170)
TOTAL REVENUE		152,833	9.86%	1,687,676	108.85%	1,550,500	(137,176)
Expenses							
01-1-5010-100	Regular Pay - Plant	11,904	11.50%	140,285	135.51%	103,521	(36,764)
01-1-5010-101	Overtime Pay	1,955	11.16%	21,046	120.13%	17,519	(3,527)
01-1-5010-102	Sick Pay	655	14.72%	6,384	143.52%	4,448	(1,936)
01-1-5010-104	Vacation Pay	1,057	14.89%	8,688	122.46%	7,095	(1,593)
01-1-5010-105	Holiday Pay	628	9.99%	6,444	102.49%	6,287	(157)
01-1-5010-200	PERS	1,110	11.69%	13,225	139.23%	9,499	(3,726)
01-1-5010-201	FICA/Medicare	1,192	11.89%	13,906	138.64%	10,030	(3,876)
01-1-5010-202	SUI	-	0.00%	1,547	141.41%	1,094	(453)
01-1-5010-203	Health Insurance	4,857	10.43%	54,649	117.36%	46,564	(8,085)
01-1-5010-204	Workers Compensation	687	9.58%	8,239	114.96%	7,167	(1,072)
01-1-5010-206	Dental Insurance	315	10.41%	3,109	102.63%	3,029	(80)
01-1-5010-546	Travel, Meetings & Mileage	-	0.00%	-	0.00%	212	212
01-1-5020-510	Repair & Maintenance - Plant	4,420	24.56%	45,031	250.17%	18,000	(27,031)
01-1-5020-511	Repair & Maintenance - Vehicle	93	4.65%	24,717	1235.83%	2,000	(22,717)
01-1-5020-512	Repair & Maintenance - Distribution	2,777	3.67%	43,402	57.32%	75,719	32,317
01-1-5020-515	R&M Transmission - Intake	-	0.00%	-	0.00%	32,000	32,000
01-1-5020-517	R&M Transmission - Well #2	-	#DIV/0!	5,851	#DIV/0!	-	(5,851)
01-1-5020-520	Small Tools & Equipment	364	13.66%	4,472	167.99%	2,662	(1,810)
01-1-5020-522	Gas, Oil & Lubricant - Plant	1,011	7.95%	12,544	98.57%	12,726	182
01-1-5020-524	Health & Safety	219	4.86%	6,893	153.34%	4,495	(2,398)
01-1-5020-529	Telephone - T & D	613	8.50%	9,215	127.74%	7,214	(2,001)
01-1-5020-544	Water Testing Fees	1,345	9.50%	16,340	115.38%	14,162	(2,178)
01-1-5020-545	Water System Fees	-	0.00%	4,823	108.31%	4,453	(370)
01-1-5020-548	Water Testing Materials	1,347	59.88%	2,520	112.01%	2,250	(270)
01-1-5021-521	Water Treatment Chemicals	750	3.56%	39,020	185.31%	21,057	(17,963)
01-1-5021-524	P G & E Power - Office	261	10.19%	2,263	88.37%	2,561	298
01-1-5021-525	P G & E Power - Intake	9,561	13.55%	86,346	122.35%	70,574	(15,772)
01-1-5021-526	P G & E Power - Well	96	34.51%	210	75.75%	277	67
01-1-5021-527	P G & E Power - Water Treatment	3,426	12.04%	30,441	106.96%	28,460	(1,981)
01-1-5021-528	P G & E Power - Distribution	3,862	10.70%	33,682	93.28%	36,108	2,426
01-1-5021-529	P G & E Power - Well 2	395	3.35%	1,137	9.65%	11,785	10,648
01-1-5021-530	P G & E Power - Medina	254	7.02%	4,709	130.04%	3,621	(1,088)
01-1-5021-532	P G & E Power - Well 5/6	254	8.18%	4,709	151.41%	3,110	(1,599)
01-1-5021-561	Purchased Water Actual-mid-p	10,318	14.45%	89,229	125.00%	71,381	(17,848)
01-1-5023-533	Outside Services	589	6.39%	4,482	48.60%	9,223	4,741
01-1-5023-535	Fire Protection/Weed Control	-	#DIV/0!	80	#DIV/0!	-	(80)
01-1-5023-537	Pest Control	34	0.59%	4,808	83.53%	5,756	948
01-1-5023-538	Engineering Services	-	0.00%	493	1.77%	27,817	27,325
01-1-5023-539	Employee Education	-	0.00%	814	389.47%	209	(605)
01-1-5024-540	Memberships	-	0.00%	1,179	233.85%	504	(675)
01-1-5024-542	Publications	696	60.46%	1,315	114.22%	1,151	(164)
01-1-5024-543	Licenses, Permits & Cert.	-	0.00%	273	29.14%	937	664

	Jun-20	June vs Budget %	2019-2020 YTD	YTD vs Budget %	2019-2020 Budget	Remaining Budget	
01-1-5032-583	Depreciation Expense	17,159	6.70%	223,680	87.36%	256,049	32,369
01-2-6010-100	Regular Pay - Administration	15,039	8.19%	192,826	104.98%	183,674	(9,152)
01-2-6010-101	Overtime Pay	202	9.32%	1,693	78.16%	2,166	473
01-2-6010-102	Sick Pay	324	4.60%	4,810	68.30%	7,042	2,232
01-2-6010-104	Vacation Pay	496	6.30%	6,893	87.53%	7,875	982
01-2-6010-105	Holiday Pay	331	7.09%	4,308	92.14%	4,675	367
01-2-6010-200	PERS	1,282	7.69%	17,511	105.09%	16,663	(848)
01-2-6010-201	FICA/Medicare	1,253	8.03%	15,851	101.64%	15,596	(255)
01-2-6010-202	SUI	79	5.23%	1,287	84.70%	1,519	232
01-2-6010-203	Health Insurance	4,592	8.65%	55,436	104.46%	53,069	(2,367)
01-2-6010-204	Workers Compensation	68	4.09%	815	49.03%	1,662	847
01-2-6010-206	Dental Insurance	319	15.87%	2,867	142.85%	2,007	(860)
01-2-6010-207	Vision Care	-	#DIV/0!	200	#DIV/0!	-	(200)
01-2-6010-546	Travel, Meetings & Mileage	-	0.00%	22	44.92%	49	27
01-2-6020-512	Propane	-	0.00%	603	75.68%	797	194
01-2-6020-515	Customer Billing Supplies	958	68.79%	2,963	212.73%	1,393	(1,570)
01-2-6020-529	Telephone - Admin	530	13.56%	4,550	116.42%	3,908	(642)
01-2-6020-530	Office Supplies	360	11.87%	3,461	114.14%	3,032	(429)
01-2-6020-531	Postage	451	5.72%	7,327	92.84%	7,892	565
01-2-6023-531	Computer IT	1,130	3.48%	41,046	126.54%	32,436	(8,610)
01-2-6023-532	R & M Equipment	-	#DIV/0!	1,044	#DIV/0!	-	(1,044)
01-2-6023-533	Outside Services	5,000	8.06%	51,085	82.32%	62,054	10,970
01-2-6023-535	Office Cleaning Serv	-	0.00%	1,460	85.18%	1,714	254
01-2-6023-536	Legal Services	1,378	13.37%	10,139	98.44%	10,300	161
01-2-6023-537	Audit Services	-	0.00%	7,000	79.37%	8,820	1,820
01-2-6023-539	Employee Education	-	0.00%	538	35.90%	1,500	962
01-2-6024-540	Memberships	-	0.00%	5,344	79.49%	6,723	1,379
01-2-6024-542	Publications	-	0.00%	873	64.22%	1,360	487
01-2-6024-543	Licenses, Permits & Cert.	-	#DIV/0!	105	#DIV/0!	-	(105)
01-2-6024-547	County Fees	-	0.00%	-	0.00%	101	101
01-2-6024-999	County Avail Fee	-	0.00%	1,774	78.76%	2,252	478
01-3-6025-100	Regular Pay	500	7.63%	4,900	74.79%	6,552	1,652
01-3-6025-201	FICA/Medicare	38	7.63%	375	74.82%	501	126
01-9-6030-546	Travel, Meetings & Mileage	-	0.00%	861	1163.82%	74	(787)
01-9-6030-569	Credit Card Service Charges	578	8.18%	7,201	101.87%	7,069	(132)
01-9-6030-572	Business Insurance Expense	3,223	6.64%	49,481	101.95%	48,535	(946)
01-9-6030-576	Misc Other Expense	248	88.60%	1,658	592.13%	280	(1,378)
01-9-6030-577	Retired Employee Health	2,318	8.14%	27,558	96.81%	28,464	907
01-9-6030-580	Retired EE Benefit Expense	-	0.00%	-	0.00%	155,549	155,549
01-9-6031-580	Interest Long Term Debt	2,700	6.64%	34,308	84.39%	40,654	6,347
01-9-6032-583	Depreciation Expense	17	7.83%	209	95.28%	219	10
TOTAL EXPENSES		127,615	7.64%	1,552,580	92.92%	1,670,904	118,324
CAPITAL IMPROVEMENT PROJECTS (IN PROGRESS)							
01-9-6030-590	NBS Rate Evaluation	-	#DIV/0!	17,705	#DIV/0!	-	(17,705)
01-9-6030-591	IRWMP Service Lines	-	#DIV/0!	182,459	#DIV/0!	-	(182,459)
01-9-6030-592	IRWMP Administrative Expenses	-	#DIV/0!	750	#DIV/0!	-	(750)
01-9-6030-593	IRWMP Water Use Efficiency	-	#DIV/0!	3,000	#DIV/0!	-	(3,000)
01-9-6030-594	Grant Application Services	-	#DIV/0!	-	#DIV/0!	-	-
01-9-6030-596	USDA Intake Upgrade	2,759	#DIV/0!	28,031	#DIV/0!	-	(28,031)
TOTAL CIP IN PROGRESS		2,759	#DIV/0!	231,945	#DIV/0!	-	(231,945)
CARRYOVER PROJECT (GRANT) REVENUE							
01-0-4020-430	DWR Grant	-	#DIV/0!	400,000	#DIV/0!	-	(400,000)
01-0-4020-425	IRWMP Service Line Replacement	-	#DIV/0!	39,909	#DIV/0!	-	(39,909)
01-0-4020-427	IRWMP Regional Water Use Efficiency	-	#DIV/0!	84,522	#DIV/0!	-	(84,522)
01-0-4020-426	IRWMP Grant Administration	-	#DIV/0!	22,930	#DIV/0!	-	(22,930)
TOTAL CARRYOVER PROJECT REVENUE		-	#DIV/0!	547,361	#DIV/0!	-	(547,361)
NEW CAPITAL PURCHASES / IMPROVEMENTS							
01-0-1090-216	Auto Meter Read/Replace	-	#DIV/0!	8,045	#DIV/0!	-	(8,045)

		Jun-20	June vs Budget %	2019-2020 YTD	YTD vs Budget %	2019-2020 Budget	Remaining Budget
01-0-1090-170	Treatment Plant Upgrade		#DIV/0!		#DIV/0!		-
01-0-1090-306	Service Line		#DIV/0!	46,991	#DIV/0!		(46,991)
01-0-1090-314	Barge Renovation	11,378	22.76%	70,687	141.37%	50,000	(20,687)
01-0-1090-316	Horniga Water Line Replacement	-	#DIV/0!		#DIV/0!	-	-
01-0-1090-318	2018 SCADA Update Project		#DIV/0!	30,708	#DIV/0!	-	(30,708)
01-0-1090-319	Fire Hydrant Replace 2018/19		#DIV/0!	-	#DIV/0!		-
01-0-1090-320	Alamo, Enebro & Intake		#DIV/0!	799	#DIV/0!		(799)
TBD	Replacement Truck		0.00%		0.00%	75,000	75,000
01-0-1090-305	Ranchito Well #1		0.00%	849	2.12%	40,000	39,151
TBD	Rate Study		0.00%		0.00%	60,000	60,000
01-0-1090-191	Intake Pump	-	0.00%	15,000	25.00%	60,000	45,000
01-0-1090-219	Fence At Sites	-	#DIV/0!	2,480	#DIV/0!	-	(2,480)
01-0-1090-317	Water Main Replacement	-	#DIV/0!	6,890	#DIV/0!	-	(6,890)
TOTAL NEW CAPITAL PURCHASES/IMPROVEMENTS		11,378	3.99%	175,559	61.60%	285,000	109,441

*includes \$5,369 from Modesto Junk Co

LDPCSD Financials**Asset :**

Cash and investments	\$	1,109,861
Restricted cash	\$	-
Accts Receivable net of res	\$	171,166
Water Drought Receivable	\$	-
Inventory	\$	69,931
Prpd expense & deposits	\$	583
Deferred Outflow of Resources - OPEB	\$	66,944
Deferred Outflow of Resources - Pension	\$	122,875
Total current assets	\$	1,541,360

Property, plant & equipment	\$	12,675,001
less depreciation	\$	(7,454,594)
C I P	\$	580,771
Net P P & E	\$	5,801,178

Other L T Assets

Total Assets	\$	7,342,538
---------------------	-----------	------------------

Liabilites:

Accounts payable	\$	33,900
Interest payable	\$	9,450
Water Accrual	\$	38,799
Accrued Payroll	\$	72,632
A/P Accrued Payables	\$	2,682
L T debt, current	\$	87,675
Total current liab	\$	245,138

L T debt

Post Retirement Benefit	\$	1,329,681
Net Pension Liability	\$	272,644
Deferred Inflow of Resources - OPEB	\$	38,713
Deferred Inflow of Resources - Pension	\$	49,481
Muni Loan	\$	654,595
less current above	\$	(87,675)

Total Liabilites	\$	2,502,577
-------------------------	-----------	------------------

Net assets	\$	4,839,961
-------------------	-----------	------------------

Total liab & net ass't	\$	7,342,538
-----------------------------------	-----------	------------------

<u>Check Number</u>	<u>Vendor No</u>	<u>Vendor Name</u>	<u>Check Date</u>	<u>Check Amount</u>
24474	000076	USPS	06/01/2020	442.14
24530	0000231	Bonander Buick-GMC	06/02/2020	27.30
24531	000383	BUSINESS CARD	06/02/2020	288.44
24532	000383	BUSINESS CARD	06/02/2020	51.85
24533	000383	BUSINESS CARD	06/02/2020	21.54
24534	0028330	Core & Main LP	06/02/2020	396.32
24535	000550	LUIS'S HOUSEKEEPING / YARDS	06/02/2020	140.00
24536	003165	NANCY JENKINS	06/02/2020	218.34
24537	000091	VALERO MARKETING & SUPPLY	06/09/2020	918.95
24538	000203	GRISWOLD, LaSALLE, COBB, DOWD	06/09/2020	1,215.00
24539	000128	GRAINGER, INC.	06/09/2020	290.40
24540	000196	AQUA SIERRA CONTROLS, INC	06/09/2020	525.90
24541	004779	California CAD Solutions	06/09/2020	3,562.50
24542	702	Warmerdam CPA Group	06/09/2020	2,500.00
24543	000105	PACIFIC GAS & ELECTRIC	06/09/2020	15,707.84
24544	00071	Mother Lode Answering Service	06/09/2020	342.00
24545	UB*10728	ROGELIO / MILA SOROTEN	06/09/2020	119.28
24546	UB*10729	CASEY / TIFFANY SCATENA	06/09/2020	167.90
24547	UB*10730	SWAIN MORRIS	06/09/2020	73.00
24548	000012	AQUA LAB	06/18/2020	1,345.00
24549	000165	ACWA/JPIA	06/18/2020	11,765.92
24550	0000605	Black Water Consulting Engineers Inc	06/18/2020	2,758.75
24551	0028330	Core & Main LP	06/18/2020	1,463.67
24552	0002487	GREG COX TRUCKING	06/18/2020	488.23
24553	0007349	Recology Mariposa	06/18/2020	294.69
24554	0002321	STREAMLINE	06/18/2020	200.00
24555	100987	Twin Lakes Management Co.	06/18/2020	1,160.00
24556	000094	USA BlueBook	06/18/2020	1,347.19
24557	000136	AT&T	06/29/2020	746.42
24558	000606	BARRY ELECTRIC	06/29/2020	330.00
24559	000263	Brenntag	06/29/2020	749.50
24560	000118	D & D PEST CONTROL *	06/29/2020	34.00
24561	000425	MARTECH *	06/29/2020	4,043.65
24562	000105	PACIFIC GAS & ELECTRIC	06/29/2020	508.68
24563	000105	PACIFIC GAS & ELECTRIC	06/29/2020	394.87
24564	0006293	WEX Bank	06/29/2020	911.39
24565	660108	VERIZON WIRELESS	06/29/2020	255.01
24566	702	Warmerdam CPA Group	06/29/2020	2,500.00
24567	000383	BUSINESS CARD	06/29/2020	8.95
24568	000383	BUSINESS CARD	06/29/2020	359.75
24569	000383	BUSINESS CARD	06/29/2020	1,526.58
24570	000383	BUSINESS CARD	06/29/2020	162.90
24571	000383	BUSINESS CARD	06/29/2020	278.75

Report Total: 60,642.60

b. Discussion – Action - AT&T Cell Site Option and Lease Agreement #13787672

Motion: To maintain our current agreement with AT&T of monthly payments

Votes: Carried 5-0

First: Warren Second: Ross

Ayes: Warren, Ross, Hankemeier, Johnson, and Sperry

Nays:

c. Discussion / Action – Revision regarding Policy 2171 Stand by Duty -On Call Policy

Consensus of the full Board of Directors to defer the item to a future meeting with the direction to the GM to bring back additional information

d. Approval – Regarding the Board of Directors receiving the Monthly Board Packets via email

Motion: To approve the procedure of the monthly board packets delivered to the Directors via email to the emails provided on the LDPCSD tablets and a hard copy printed and provided at the board meeting

Votes: Carried 4-1

First: Hankemeier Second: Ross

Ayes: Hankemeier, Ross, Johnson, and Sperry

Abstain: Warren

6. ADJOURNMENT: 2:47 p.m.

Respectfully submitted by,

S. Marchesiello
Board Secretary



Lake Don Pedro Community Services District

STAFF REPORT

To: Board of Directors
From: Syndie Marchesiello
Date: July 13, 2020
Subject: Availability Billing / Delinquent Accounts
Purpose: For the Board of Directors to approve placing the amounts on the tax rolls for collections.

At the beginning of the fiscal year in July the availability lots are billed. The availability fee and delinquent charges are placed on the tax rolls for collection.

Per Government Code 61115(b), a notice was posted for a Public Hearing held July 4, 2019 & June 29, 2019 & at the District office. In addition, a lien may be filed on the delinquent properties.

**Recommendation – The Board of Directors make a motion that states:
The Board approves availability, delinquent charges and lien & release fees, to be sent to Mariposa and Tuolumne Counties to be placed on the 2020 / 2021 tax rolls for collection with the exception of any balances that have been paid prior to placing them on the tax rolls. In addition, to have liens placed on the appropriate properties so as to meet the requirements of the counties and aid in collection of those fees.**

Amount Applied to Mariposa and Tuolumne Co.
2020-2021 Tax Rolls

Mariposa County Availability (Standby) Fee

\$118,922.00

Tuolumne County Availability (Standby) Fee

\$68,370.60

Delinquents without Processing Fees

\$8,088.17

Total \$195,380.77

APN	Amount
0211300060	776.00
0201500090	496.00
0212300190	934.00
0211700160	730.00
0191000150	854.00
0202900100	1428.00
076150013000	1047.10
076070017000	1087.97
075170029000	735.10

LAKE DON PEDRO COMMUNITY SERVICES DISTRICT

RESOLUTION 2020-xxxx

Approving 2020-2021 Availability and Delinquent Charges applied to the tax rolls for collection

WHEREAS, the Lake Don Pedro Community Services District collects (Water) Availability Charges from vacant parcels within its boundaries, as well as collecting delinquent monthly service charges from active water customers as authorized in law; and

WHEREAS, the 2020-2021 Availability Fees and Delinquent Charges were submitted to the Board, and requested certification of the proposed charges to be place on the tax rolls for collection in addition to lien and lien release fees, and

WHEREAS, the 2020-2021 Availability and Delinquent Charges were duly presented to the public at the Regular Board Meeting of July 20, 2020 and opportunity for public input provided; and

WHEREAS, the District must certify the 2020-2021 Availability and Delinquent Charges and submit them as approved to the County of Tuolumne and County of Mariposa for collection on the tax rolls by August 1st and August 10th of each year.

NOW THEREFORE BE IT RESOLVED that the Availability and Delinquent Charges as submitted are hereby certified and approved for submission to the respective counties for collection on the tax rolls.

This resolution was passed and adopted by the Board of Directors of the Lake Don Pedro Community Services District, this 20th day of July 2020 by the following vote:

- AYES:** ()
- NAYS:** ()
- ABSENT:** ()
- ABSTAIN:** ()

ATTEST:

Dan Hankemeier, Vice President of the Board

Syndie Marchesiello, Secretary

CERTIFICATE OF SECRETARY

I, Syndie Marchesiello, as the duly appointed Secretary of the Lake Don Pedro Community Services District, do hereby certify that the foregoing Resolution was duly and regularly adopted on the 20th day of July 2020 at the Regular Meeting of the Board of Directors.



Lake Don Pedro Community Services District

STAFF REPORT

To: Board of Directors
From: Patrick McGowan
Date: July 14, 2020
Subject: FY 2020/2021
Purpose: For the Board of Directors to approve our FY budget 2020/21

The Districts preliminary budget was recently accepted by ldpcsd board of directors. Minor changes have been made to final budget draft.

Recommendation – Accept FY 2020/2021 final budget.

		2019-2020 Approved Budget	2019-2020 YTD Totals Thru 05/31/2020	2019-2020 Projected Amounts	2020-2021 Proposed Budget
Revenue					
01-0-3010-301	Meter Reconnection Fee	-	350	350	
01-0-3010-302	Donated Capital - Meters Curre	15,000	85,000	85,000	90,000
01-0-4010-400	Water Sales Residential	299,627	307,232	335,162	351,920
01-0-4010-402	Water Availability Revenue	187,573	169,385	184,784	194,023
01-0-4010-403	Water Service Charges	957,732	883,091	963,372	1,011,541
01-0-4020-410	Interest Income - LAIF	4,510	3,987	4,349	4,567
01-0-4020-413	Int Inc Penalties - Customer	27,694	20,902	22,802	23,942
01-0-4020-414	Transfer Fee Income	6,000	5,900	6,436	6,758
01-0-4020-415	Other Income*	7,874	12,801	13,965	14,663
01-0-4020-416	Meter Set Fee	4,200	9,500	10,364	10,882
01-0-4020-900	Hydrant Service Charge	333	239	261	274
01-0-4020-901	Hydrant Rental	768	560	611	641
01-0-4020-902	Hydrant Consumption	2,533	1,767	1,927	2,024
01-0-4020-999	Avail Fee Income	1,771	1,767	1,927	2,024
01-0-4040-100	Lease Fee	34,884	32,363	35,305	37,070
TBD	Transfer From Reserve	-	-	0	0
TOTAL REVENUE		1,550,500	1,534,843	1,666,615	1,750,328
Expenses					
01-1-5010-100	Regular Pay - Plant	103,521	128,381	140,052	172,000
01-1-5010-101	Overtime Pay	17,519	19,091	20,827	25,000
01-1-5010-102	Sick Pay	4,448	5,729	6,250	6,562
01-1-5010-104	Vacation Pay	7,095	7,632	8,326	8,742
01-1-5010-105	Holiday Pay	6,287	5,816	6,344	6,661
01-1-5010-200	PERS	9,499	12,115	13,217	16,857
01-1-5010-201	FICA/Medicare	10,030	12,714	13,870	16,751
01-1-5010-202	SUI	1,094	1,547	1,688	1,772
01-1-5010-203	Health Insurance	46,564	49,793	54,319	58,279
01-1-5010-204	Workers Compensation	7,167	7,553	8,239	8,651
01-1-5010-206	Dental Insurance	3,029	2,793	3,047	3,748
01-1-5010-546	Travel, Meetings & Mileage	212	-	0	250
01-1-5020-510	Repair & Maintenance - Plant	18,000	40,611	44,303	20,000
01-1-5020-511	Repair & Maintenance - Vehicle	2,000	24,624	26,862	15,000
01-1-5020-512	Repair & Maintenance - Distribution	75,719	40,625	44,318	46,534
01-1-5020-515	R&M Transmission - Intake	32,000	-	0	5,000
01-1-5020-517	R&M Transmission - Well #2		5,851	6,383	6,702
01-1-5020-520	Small Tools & Equipment	2,662	4,108	4,482	4,706
01-1-5020-522	Gas, Oil & Lubricant - Plant	12,726	11,533	12,581	13,211
01-1-5020-524	Health & Safety	4,495	6,674	7,281	7,645
01-1-5020-529	Telephone - T & D	7,214	8,601	9,383	9,852
01-1-5020-544	Water Testing Fees	14,162	14,995	16,358	17,176
01-1-5020-545	Water System Fees	4,453	4,823	5,262	5,525
01-1-5020-548	Water Testing Materials	2,250	1,173	1,280	1,344
01-1-5021-521	Water Treatment Chemicals	21,057	38,270	41,749	43,837
01-1-5021-524	P G & E Power - Office	2,561	2,002	2,184	2,293
01-1-5021-525	P G & E Power - Intake	70,574	76,785	83,765	87,954
01-1-5021-526	P G & E Power - Well	277	114	125	131
01-1-5021-527	P G & E Power - Water Treatment	28,460	27,015	29,471	30,944
01-1-5021-528	P G & E Power - Distribution	36,108	29,820	32,531	34,157
01-1-5021-529	P G & E Power - Well 2	11,785	742	810	850
01-1-5021-530	P G & E Power - Medina	3,621	4,455	4,860	5,102
01-1-5021-532	P G & E Power - Well 5/6	3,110	4,455	4,859	5,102

		2019-2020 YTD	2019-2020	2020-2021	
		Totals Thru	Projected	Proposed	
		05/31/2020	Amounts	Budget	
		2019-2020			
		Approved Budget			
01-1-5021-561	Purchased Water Actual-mid-p	71,381	78,911	86,085	90,389
01-1-5023-533	Outside Services	9,223	3,893	4,247	4,459
01-1-5023-535	Fire Protection/Weed Control	-	80	87	92
01-1-5023-537	Pest Control	5,756	4,774	5,208	5,468
01-1-5023-538	Engineering Services	27,817	493	537	20,000
01-1-5023-539	Employee Education	209	814	888	932
01-1-5024-540	Memberships	504	1,179	1,286	1,350
01-1-5024-542	Publications	1,151	619	675	709
01-1-5024-543	Licenses, Permits & Cert.	937	273	298	313
01-1-5032-583	Depreciation Expense	256,049	206,521	225,296	236,561
01-2-6010-100	Regular Pay - Administration	183,674	177,787	193,949	214,008
01-2-6010-101	Overtime Pay	2,166	1,491	1,627	1,708
01-2-6010-102	Sick Pay	7,042	4,486	4,894	5,139
01-2-6010-104	Vacation Pay	7,875	6,397	6,978	7,327
01-2-6010-105	Holiday Pay	4,675	3,976	4,338	4,555
01-2-6010-200	PERS	16,663	16,230	17,705	20,793
01-2-6010-201	FICA/Medicare	15,596	14,599	15,926	17,804
01-2-6010-202	SUI	1,519	1,207	1,317	1,383
01-2-6010-203	Health Insurance	53,069	50,845	55,467	55,098
01-2-6010-204	Workers Compensation	1,662	747	815	856
01-2-6010-206	Dental Insurance	2,007	2,548	2,780	3,799
01-2-6010-207	Vision Care	-	200	218	229
01-2-6010-546	Travel, Meetings & Mileage	49	22	24	25
01-2-6020-512	Propane	797	603	658	691
01-2-6020-515	Customer Billing Supplies	1,393	2,005	2,187	2,297
01-2-6020-529	Telephone - Admin	3,908	4,020	4,385	4,604
01-2-6020-530	Office Supplies	3,032	3,101	3,383	3,552
01-2-6020-531	Postage	7,892	6,876	7,501	7,876
01-2-6023-531	Computer IT	32,436	39,916	43,544	20,000
01-2-6023-532	R & M Equipment	-	1,044	1,139	4,000
01-2-6023-533	Outside Services	62,054	46,085	50,274	52,788
01-2-6023-535	Office Cleaning Serv	1,714	1,460	1,593	1,672
01-2-6023-536	Legal Services	10,300	8,761	9,558	10,036
01-2-6023-537	Audit Services	8,820	7,000	7,636	8,018
01-2-6023-539	Employee Education	1,500	538	587	617
01-2-6024-540	Memberships	6,723	5,344	5,830	6,121
01-2-6024-542	Publications	1,360	873	953	1,000
01-2-6024-543	Licenses, Permits & Cert.	-	105	115	120
01-2-6024-547	County Fees	101	-	0	0
01-2-6024-999	County Avail Fee	2,252	1,774	1,935	2,032
01-3-6025-100	Regular Pay	6,552	4,400	4,800	5,040
01-3-6025-201	FICA/Medicare	501	337	367	386
01-9-6030-546	Travel, Meetings & Mileage	74	861	940	986
01-9-6030-569	Credit Card Service Charges	7,069	6,623	7,225	7,587
01-9-6030-572	Business Insurance Expense	48,535	46,259	50,464	60,000
01-9-6030-576	Misc Other Expense	280	1,410	1,538	1,615
01-9-6030-577	Retired Employee Health	28,464	25,240	27,534	28,911
01-9-6030-580	Retired EE Benefit Expense	155,549	-	0	0
01-9-6031-580	Interest Long Term Debt	40,654	31,608	34,481	36,205
01-9-6032-583	Depreciation Expense	219	192	209	220
TOTAL EXPENSES		1,670,904	1,424,965	1,554,507	1,647,710
CAPITAL IMPROVEMENT PROJECTS (IN PROGRESS)					
01-9-6030-590	NBS Rate Evaluation		17,705	17,705	42,000

	2019-2020 Approved Budget	2019-2020 YTD Totals Thru 05/31/2020	2019-2020 Projected Amounts	2020-2021 Proposed Budget
01-9-6030-591 IRWMP Service Lines	-	182,459	182,459	
01-9-6030-592 IRWMP Administrative Expenses	-	750	750	
01-9-6030-593 IRWMP Water Use Efficiency	-	3,000	3,000	
01-9-6030-596 USDA Intake Upgrade	-	25,272	25,272	30,000
TOTAL CIP IN PROGRESS	-	229,186	229,186	72,000
CARRYOVER PROJECT (GRANT) REVENUE				
01-0-4020-430 DWR Grant		400,000	400,000	
01-0-4020-425 IRWMP Service Line Replacement	-	39,909	39,909	
01-0-4020-427 IRWMP Regional Water Use Efficiency	-	84,522	84,522	
01-0-4020-426 IRWMP Grant Administration	-	22,930	22,930	
TOTAL CARRYOVER PROJECT REVENUE	-	547,361	547,361	-
NEW CAPITAL PURCHASES / IMPROVEMENTS				
01-0-1090-216 Auto Meter Read/Replace		8,045	8,045	5,000
01-0-1090-306 Service Line		46,991	46,991	
01-0-1090-314 Barge Renovation	50,000	59,310	59,310	15,000
01-0-1090-318 2018 SCADA Update Project	-	30,708	30,708	20,000
01-0-1090-320 Alamo, Enebro & Intake		799	799	30,000
TBD Replacement Truck	75,000		0	35,000
01-0-1090-305 Ranchito Well #1/Scada upgrade	40,000	849	849	7,000
01-0-1090-191 Intake Repairs	60,000	15,000	15,000	30,000
01-0-1090-219 Fence At Sites	-	2,480	2,480	45,000
01-0-1090-317 Water Main Replacement	-	6,890	6,890	5,000
TBD Flushing/Valve progtam				20,000
TBD Filter?Tank Inspevction & Cleaning				30,000
TBD Plant Septic Upgrades				5,000
TOTAL NEW CAPITAL PURCHASES/IMPROVEMENTS	225,000	164,181	164,181	247,000
BUDGET SUMMARY				
OPERATING REVENUE	1,550,500	1,534,843	1,666,615	1,750,328
OPERATING EXPENSES	1,670,904	1,424,965	1,554,507	1,647,710
INCOME/LOSS FROM OPERATIONS	(120,404)	109,878	112,108	102,618
LOAN PAYMENTS (PRINCIPAL)	79,507	83,491	83,491	87,675
TOTAL CIP AND STUDIES	225,000	393,367	393,367	319,000
TOTAL OPERATING EXPENSES PLUS LOAN & CIP OVER EXPENSES	(424,911)	180,381	182,611	(304,057)
DEPRECIATION (ADD BACK IN)	256,268	206,713	225,505	236,781
GASB 45 LIABILITY				
TRANSFER FROM RESERVES				
FINAL NET INCOME/LOSS	(168,642)	387,095	408,117	(67,276)

RESOLUTION 2020 - xxxx

**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE LAKE DON PEDRO
COMMUNITY SERVICES DISTRICT APPROVING THE DISTRICT'S FISCAL YEAR
2020-21 FISCAL YEAR BUDGET**

WHEREAS, the Lake Don Pedro Community Services District (District) Board of Directors reviews and accepts a monthly treasurer's report that includes statements of cash flows, account and investment balances, and budget to actual reports; and

WHEREAS, California Government Code Section 61110 (a) states that on or before July 1 of each year or, for districts using two one-year budgets or a biennial budget, every other year, the board of directors may adopt a preliminary budget that conforms to generally accepted accounting and budgeting procedures for special districts; and

WHEREAS, the District discussed the goals and objectives of the 2020-21 Budget preparation and reviewed a draft budget proposal during its regular, public Board meeting held on June 15, 2020 and

WHEREAS, the District has prepared a Draft Final Budget for the 2020/21 Fiscal Year in accordance with the guidance and direction of the Board in public meetings; and

WHEREAS, the Board intends to adopt a Final Budget for the 2020/21 Fiscal Year at this July 20, 2020 Regular Board meeting, and has caused the preparation and publication of the required Notice of Public Hearing in the newspaper of general circulation, regarding final budget adoption; and

WHEREAS, said Final Draft 2020/21 Fiscal Year Budget is included herein for consideration.

NOW, THEREFORE, BE IT RESOLVED that:

SECTION 1. The Board of Directors of the District does hereby approve and adopt the Final 2020/21 Fiscal Year Budget as presented.

SECTION 2. The District General Manager or his/her designee is hereby authorized to expend the funds contained within the 2020/21 Budget in accordance with financial policies adopted by the Board.

PASSED AND ADOPTED by the Board of Directors of the Lake Don Pedro Community Services District on July 20, 2020 by the following vote:

AYES: (0)
NOES: (0)
ABSENT: (0)

Dan Hankemeier, Vice President of the Board

ATTEST:

Syndie Marchesiello, Secretary to the Board

CERTIFICATE OF SECRETARY

I, Syndie Marchesiello, the duly appointed Secretary of the Lake Don Pedro Community Services District, do hereby certify that the foregoing Resolution was duly and regularly adopted on the 20th day of July 2020 at the Regular Meeting of the Board of Directors.

Syndie Marchesiello, Secretary to the Board



Lake Don Pedro Community Services District

STAFF REPORT

To: Board of Directors
From: Patrick McGowan
Date: July 14, 2020
Subject: CEQA environmental review (Deep water intake project)
Purpose: For the Board of Directors to approve the estimate received to move forward with an environmental review.

With the final draft of our preliminary engineering report submitted it is now time to move forward with an environmental review. Working with our contracted engineer Black Water Consulting we recently secured an estimate for the environmental review. This is a lengthy yet essential process that must take place in order to move forward.

Recommendation – Accept Augustine planning associates estimate to perform an environmental review.



Augustine Planning Associates, Inc.

Proposal to Prepare Environmental Documentation and Environmental Technical Studies for the:

Lake Don Pedro Community Services District Raw Water Intake Project – Lake McClure

Understanding:

The Lake Don Pedro Community Services District (LDPCSD) intends to rehabilitate the raw water intake pump station and extend the pumps deeper into Lake McClure. This will correct the issues caused by failing equipment at the existing pump station and help the District to maintain water supply in drought conditions.

The project will replace 420 linear of pipeline, one 200 HP submersible pump and motor, one 125 HP submersible pump and motor, check and gate valves, pipe fittings, and electrical and controls for the system. The project will also add 160 linear feet of pipeline and fittings to extend the system's depth to 635 feet ASL. The pipeline will have a total length of 580 Linear Feet. The pipes will be 12" in diameter and made of high strength, low alloy (HSLA) steel.

LDPCSD intends to fund the project using USDA monies.

Scope:

Augustine Planning Associates, Inc. (APA) in association with Area West Environmental (AWE) and Patrick GIS (PG) proposes to provide the following services to assist in completing the required environmental documentation and special studies for the proposed project:

Task 1: Project Review/Project Coordination

Review current project plans, associated documents, and environmental reviews conducted on or adjacent to the project site. Attend up to 2 inter-agency, LDPCSD meetings and/or teleconferences in Tuolumne County and one at LDPCSD. Coordinate the environmental review process in coordination with Black Water Consulting Engineers, the USDA, and the LDPCSD.

Task 2: Outreach - Early CEQA/NEPA Consultation

Contact and consult with applicable advisory agencies (local, state, and federal agencies and stakeholder agencies, all applicable agencies listed on the NEPA advisory agency checklist). and landowners located within 500 feet of the project site. This task includes responding to comments received by agencies and landowners (or referring respondents to the appropriate agencies or personnel).

Task 3: Technical Studies (Includes Site Surveys)

The following technical studies will be prepared by APA (Biological), Patrick GIS (Cultural), and Wetlands Delineation (Area West Environmental) as specified.

Task 3A Cultural Resources Study:

A Cultural Resources Study will be completed by Patrick GIS, Inc.

Subtask 3A1 Research

Contextual research will be conducted to determine the sensitivity for, and types of, resources in or near the project area. A records search will be performed at the Central California Information Center, California State University, Stanislaus to identify previously recorded resources and studies in and within a one-quarter mile radius of the project area.

Optional Task: Additional research may be conducted at local repositories, the offices of the County Assessor and Recorder, the files of Patrick GIS, and any other repositories deemed necessary.

Subtask 3A.2 Coordination

Coordination will be conducted with interested parties who may have an interest in, or knowledge of, cultural resources in the vicinity of the project area including, but not limited to, the Native American Heritage Commission (NAHC), parties listed on the Native American Contact List, and historical societies (if applicable). One letter and one follow up contact (phone/email) will be initiated. If the individual/group does not respond within 30 days, Patrick GIS will assume the party does not have questions or concerns regarding the project. Patrick GIS will draft Native American consultation letters for use by the appropriate agency in formal Native American consultation.

Subtask 3A.3 Survey and Documentation

Patrick GIS will conduct an intensive pedestrian survey of the project area. Cultural resources will be recorded, photographed, and mapped on the appropriate California Department of Parks and Recreation (DPR) forms. Upon completion of the survey, Patrick GIS will communicate informally with the Client, regarding the findings of the survey to determine if any additional work will be required that is not addressed in this scope of work. If the findings are negative, a letter report will suffice.

Extended Identification Efforts and Evaluations

Dependent upon the findings and results of the archival research and the survey, the Consultant(s) may recommend extended identification efforts to determine the presence/absence of subsurface deposits or delineate site boundaries. This task is not included in the current budget. No evaluations of additional resources are included at this time. A separate budget will be prepared upon completion of the survey if resources cannot be avoided.

Subtask 3.A.4. Technical Report

The Consultant(s) will prepare a Cultural Resources Inventory Report, commensurate with the project findings. Deliverables will include electronic copies of the draft reports and attachments via email or Dropbox to the Client and Lead Agency. A total of one draft and the final will be prepared, allowing for the Client and the Agency one review. The final report will be submitted electronically unless otherwise requested. One unbound report copy will be

provided to the CCalC as required by their research agreement.

Task 3B Biological Study

Task 3B – Biological Survey/Study Update.

APA will conduct a review of the current California Natural Diversity Database, USFWS species list and California Native Plant Society records. APA will conduct a reconnaissance survey of the project site to identify any special status species that may occur on site.

APA anticipates two survey days spaced to take advantage of the blooming periods for special status plants. Surveys will include:

- a. A botanical survey of the area during the blooming periods for special status plant species likely to occur in the area;
- b. In conjunction with botanical surveys, APA will note areas of potential general biological sensitivity that may provide valuable wildlife habitat for special status and common wildlife (e.g. potential bat roosts, bird nests) that may be susceptible to disturbance from camping activities.
- c. APA will record the locations of any special status species identified on site.
- d. One evening/night survey may be required to evaluate the potential for special status bat and frog species.

APA shall address oak woodland mitigation, as necessary. One field day, one lab day, one day mapping, and preparation of a species list and proposed mitigation measures are included in this proposal.

A biological technical report will be produced addressing mitigation measures to minimize and avoid impacts to special status species. Formal species consultation with state and federal agencies is not anticipated at this time and is not included in the budget.

Task 3C Wetlands Delineation

A wetlands delineation/assessment will be conducted by Area West Environmental to characterize and quantify potential wetlands to be disturbed (if any). The delineation will be suitable for use in Section 401 and Section 404 (Clean Water Act) permits and, if necessary, a California Dpt. of Fish and Wildlife Lake and Streambed Alteration Agreement (1600 Permit). Permit applications are not included in the project budget but may be completed pursuant to a separate cost and scope.

Task 4: Administrative Draft EA/MND/MMRP

Prepare one administrative draft Environmental Assessment (EA)- Initial Study (IS) - Mitigated Negative Declaration (MND) with a Mitigation Monitoring and Reporting Plan for review by the District and USDA. The report format will address all CEQA Appendix G checklist items and the USDA EA guidelines, including an alternatives analysis.

Task 5: Final Draft EA – IS/MND/MMRP

Prepare one final draft EA – IS/MND/MMRP in response to comments in Task 4.

Task 6: Clearinghouse Review/Federal Review – Notice of Completion (NOC)

APA shall include a letter from LDPCSD stating that LDPCSD gives permission to APA to send the copies of the document to the State Clearinghouse. APA will prepare and transmit the Draft EA/MND/MMRP to State Clearinghouse (30-day review) with Notice of Completion (NOC) for the CEQA process.

APA will prepare and transmit 8 copies of the Draft EA/MND/MMRP to USDA staff and assist in drafting all pertinent noticing for the EA.

Task 7: Notice of Intent (NOI)/Federal Notice of Availability

Draft a Notice of Intent (NOI) to adopt a mitigated negative declaration (CEQA). Assist LDPCSD in publishing the legal notice and posting the notice at the County Clerk's office. Legal notice in the local paper also is required.

Coordinate with USDA to publish a Notice of Availability for the EA (generally requires Federal Register publication and publication in local newspaper).

Task 8: Response to Comments, Final EA/MND/MMRP

Prepare responses to comments received from State clearinghouse, the public, USDA, and federal review. Proposal includes responding to up to five comments from agencies or individuals. Additional responses may be provided at additional cost. Prepare a Final EA/MND/MMRP in response to comments.

Task 9: Staff Report, Public Hearing Notice, Resolution

Draft a public hearing notice, staff report and LDPCSD Resolution for the project (adopting the MND, MMRP and CEQA Findings). Assist USDA in preparing and publishing necessary NEPA notices.

Task 10: Public Hearing

Attend the public hearing to consider certifying the MND/MMRP and approving the project pursuant to CEQA.

Task 11: Notice of Determination (NOD)/Finding of No Significant Impact (FONSI)

Prepare a Notice of Determination (NOD), gather signatures for, prepare for filing, and assist LDPCSD in filing NOD at County Clerk and State Clearinghouse (CEQA).

Assist the USDA in drafting a Finding of No Significant Impact (FONSI) to complete the NEPA process.

Budget:

Task #	Task Description	# Hours	Hourly Rate	Cost
1	Project Review, Coordination, Meetings (2)	24	@ \$85	\$2,040.00
2	Outreach – Notify Advisory Agencies Notify Adjoining Landowners within 500 feet	16	@ \$85	\$1,360.00
3A	Cultural Resources Study (Patrick GIS) /b/	--	--	\$6,536.00
3B	Biological Study	80	@\$85	\$6,800.00
3C	Wetlands Delineation			\$7,000.00
4	Administrative Draft EA/MND/MMRP	100	@ \$85	\$8,500.00
5	Draft EA/MND/MMRP	20	@ \$85	\$1,700.00
6	Transmit EA/MND/MMRP to State Clearinghouse (30-days) and USDA for federal review	8	@ \$85	\$680.00
7	Notice of Availability/Intent to Adopt MND/ Notice of EA availability/a/	8	@ \$85	\$680.00
8	Response to Comments; Final EA/MND/MMRP	12	@ \$85	\$1,020.00
9	Staff Report, Public Hearing Notice /a/	8	@ \$85	\$680.00
10	Public Hearing	2	@ \$85	\$170.00
11	File Notice of Determination with County and State Clearinghouse and Draft Finding of No Significant Impact (FONSI) for USDA/a/	4	@ \$85	\$340.00
	10% Contingency			\$3,751.00
--	Costs Postage \$250.00 Copies (MND) - \$250.00 Mileage \$200.00	--	--	\$700.00
Total				\$41,957.00

/a/ Excludes legal notice costs for publishing legal notices and filing fees

/b/ Flat fee by Patrick GIS and flat fee by Area West Environmental

Optional Task:

Task #	Task Description	Cost
12	Air Quality/Greenhouse Gas Conformity Study	\$10,000- \$12,000

Timeline:

The EA/MND process generally takes a minimum of 6 months from the issuance of a notice to proceed. Project amendments and slow responses from lead federal agencies (i.e., USDA) may extend this timeline. In addition, the blooming period for most special status plants has passed for the season (i.e., and the ability to conduct biological surveys acceptable by the federal agency). An extension to allow for surveys to be completed in Spring 2021 may be required but will be determined in consultation with the USDA.

Assumptions & Exclusions:

Technical studies not identified herein will not be required but may be provided by APA at additional cost upon request if determined necessary.

This proposal excludes the costs of obtaining a Section 1600 Lake or Streambed Alteration Agreement through the USFWS, Section 401 Water Quality Certification and Section 404 Clean Water Act Permit. These items can be provided by APA at additional cost.

Blackwater Engineering will prepare the NPDES/SWPPP for the project.

Environmental documentation will be in the form of a joint Environmental Assessment/Mitigated negative declaration with a mitigation monitoring and reporting plan. Separate NEPA and CEQA documents are not required.

The project description will not change significantly during the environmental review process.

Proposed costs include one amendment to the administrative draft of each environmental document. Additional significant document amendments may be incorporated at additional cost, upon request.

Proposed costs include response to comments from the State Clearinghouse totaling five comments (excluding air quality responses to be provided subject to additional cost).

Proposal costs exclude CA Fish and Wildlife administration fees and filing fees for the Notice of Determination. These costs will be paid by LDPCSD.

Proposal costs exclude legal notice publication fees for the publication of legal notices and public hearing notices. These costs will be paid by LDPCSD.

Should the project cover multiple years, project costs are subject to an annual cost of living increase.

For Cultural Resources:

- No more than one additional simple archaeological resource will be identified and recorded; additional or complex sites (e.g. mining complexes or prehistoric habitation sites) may require supplemental efforts submitted through a Change Order.
- Coordination with interested parties beyond the scope herein will result in a Change Order. Patrick GIS will solicit information under the requirements of a Phase I; assistance with consultation may require additional time and money.
- The budget and scope of work are based on email correspondence and does not include more than **the estimated 0.5 acre**.
- The budget does not provide for unanticipated discoveries or project changes. If necessary, additional work will be directed through a Change Order and budget amendment.
- The records search will not exceed \$1000.00. Expenditures exceeding the estimated budget will be billed at cost.

- Meetings and/or additional site visits shall be billed at cost. Meetings with the Lead Agency and Native Americans will be billed at cost.
- Task 1 and 2 will commence within two weeks of a signed contract.
- Fieldwork will commence two weeks upon receipt of the records search.
- A draft report will be produced 30-45 days **after** fieldwork has been completed.

This proposal remains in effect through December 31, 2020; or until a contract is executed or a notice to proceed approved, whichever occurs first.

LAKE DON PEDRO COMMUNITY SERVICES DISTRICT

RESOLUTION 2020-xxx

**Resolution calling for General District Election in the
Lake Don Pedro Community Services District**

WHEREAS, an election will be held within the Lake Don Pedro Community Services District on November 3, 2020 for the purpose of electing two members for Full Term Seats to the Lake Don Pedro Community Services District Board of Directors

and

WHEREAS, whenever two or more elections are called to be held on the same day, in the same territory, or in part of the same territory, such elections should be consolidated,

and

WHEREAS, the Lake Don Pedro Community Services District Board of Directors hereby certifies that there have been no changes to the boundaries of the Lake Don Pedro Community Services District since the last election held within the District. The map previously submitted to Mariposa County in 2008 is certified by the District to be true and correct.

NOW, THEREFORE, BE IT RESOLVED that an election be held on November 3, 2020 for the purpose of electing three (3) full term members to the District Board of Directors;

and

BE IT FURTHER RESOLVED, that the Lake Don Pedro Community Services District requests the governing body of the County of Mariposa, as prescribed by Elections Code Section 10402 and 10403 to consolidate the regularly scheduled District Election with any other elections to be held on November 3, 2020.

and

BE IT FURTHER RESOLVED, that the Candidate is to pay for the publication of the candidate’s statement pursuant to Elections Code Section 13307. The limitation of the number of words that a candidate may use in his/her Candidate’s Statement is 200 words maximum;

and

BE IT FURTHER RESOLVED, that the Lake Don Pedro Community Services District agree to reimburse the County of Mariposa for the District’s share of the costs of the election.

THEREFORE, this resolution was passed and approved by the Board of Directors of the

Lake Don Pedro Community Services District, this 20th day of July 2020 by the following vote:

AYES: (0)

NOES: (0)

ABSENT: (0)

Dan Hankemeier, Vice President of the Board

ATTEST:

Syndie Marchesiello, Secretary to the Board

CERTIFICATE OF SECRETARY

*I, Syndie Marchesiello, the duly appointed Secretary of the **Lake Don Pedro Community Services District**, do hereby certify that the foregoing Resolution was duly and regularly updated on the 20th day of July, 2020 at the Regular Meeting of the Board of Directors.*

Syndie Marchesiello, Secretary to the Board

LAKE DON PEDRO COMMUNITY SERVICES DISTRICT

RESOLUTION 2020-xxx

**Resolution calling for General District Election in the
Lake Don Pedro Community Services District**

WHEREAS, an election will be held within the Lake Don Pedro Community Services District on November 3, 2020 for the purpose of electing two members for Full Term Seats to the Lake Don Pedro Community Services District Board of Directors

and

WHEREAS, whenever two or more elections are called to be held on the same day, in the same territory, or in part of the same territory, such elections should be consolidated,

and

WHEREAS, the Lake Don Pedro Community Services District Board of Directors hereby certifies that there have been no changes to the boundaries of the Lake Don Pedro Community Services District since the last election held within the District. The map previously submitted to Tuolumne County in 2008 is certified by the District to be true and correct.

NOW, THEREFORE, BE IT RESOLVED that an election be held on November 3, 2020 for the purpose of electing three (3) full term members to the District Board of Directors;

and

BE IT FURTHER RESOLVED, that the Lake Don Pedro Community Services District requests the governing body of the County of Tuolumne, as prescribed by Elections Code Section 10402 and 10403 to consolidate the regularly scheduled District Election with any other elections to be held on November 3, 2020

and

BE IT FURTHER RESOLVED, that the Candidate is to pay for the publication of the candidate’s statement pursuant to Elections Code Section 13307. The limitation of the number of words that a candidate may use in his/her Candidate’s Statement is 200 words maximum;

and

BE IT FURTHER RESOLVED, that the Lake Don Pedro Community Services District agree to reimburse the County of Tuolumne for the District’s share of the costs of the election.

THEREFORE, this resolution was passed and approved by the Board of Directors of the

Lake Don Pedro Community Services District, this 20th day of July 2020 by the following vote:

AYES: 0

NOES: 0

ABSENT: 0

Dan Hankemeier, Vice President of the Board

ATTEST:

Syndie Marchesiello, Secretary to the Board

CERTIFICATE OF SECRETARY

*I, Syndie Marchesiello, the duly appointed Secretary of the **Lake Don Pedro Community Services District**, do hereby certify that the foregoing Resolution was duly and regularly updated on the 20th day of July 2020 at the Regular Meeting of the Board of Directors.*

Syndie Marchesiello, Secretary to the Board



Lake Don Pedro Community Services District

STAFF REPORT

To: Board of Directors
From: Patrick McGowan
Date: July 14, 2020
Subject: At&t cell tower lease agreement
Purpose: Review negotiated monthly lease agreement offers.

With the Boards direction the District is involved in discussions with at&t on our current cell tower lease agreement. The board has rejected the buy-out option presented in past conversations. I successfully increased the negotiated monthly lease rate. Here are our two options at this time:

- Option A: Commencing on December 1, 2020, the monthly rent will be \$1,450.00 per month and will increase 10% every 5 years, beginning on December 1, 2025.
- Option B: Commencing on December 1, 2020, the monthly rent will be \$1,550.00 per month and will increase 10% every 5 years, beginning on December 1, 2030.

Recommendation – Accept Option A



Lake Don Pedro Community Services District

Lake Don Pedro Community Services District Raw Water Intake Pump Station Project

Preliminary Engineering Report

DRAFT

JULY 2020

Prepared for:

LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
9751 Merced Falls Road
La Grange, CA 95329

Prepared by:

BLACK WATER CONSULTING ENGINEERS, INC.
602 Lyell Drive
Modesto, CA 95356
(209) 322-1820

BLACKWATER
CONSULTING ENGINEERS, INC.

TABLE OF CONTENTS

Purpose 1

1 Project Planning..... 2

 1.1 Project Summary..... 2

 1.2 Location..... 2

 1.3 Environmental Resources 5

 1.4 Population Trends..... 6

 1.5 Community Engagement 6

2 Existing Facilities 7

 2.1 Facility Layout Map 7

 History..... 9

 2.2 Existing Conditions..... 10

 2.3 Financial Status 15

3 Need for Project..... 17

 3.1 Health, Sanitation, and Security..... 17

 3.2 Infrastructure Issues 17

 3.3 Reasonable Design Capacity 18

4 Alternatives Considered 18

 4.1 Project Need and Solution 18

 4.2 Description of Alternatives 19

 4.2.1 Alternative A: Build New Groundwater Wells 19

 4.2.2 Alternative B: Replace Existing Pump Station..... 19

 4.2.3 Alternative C: Replace and Extend Existing Pump Station..... 19

 4.2.4 Alternative D: Build a New Pump Station 19

 4.2.5 Alternative E: Build a Cofferdam..... 19

 4.2.6 Alternative F: Pump Station Extension with Solar Power 19

 4.3 Design Criteria..... 19

 4.4 Map 20

 4.5 Environmental Impacts 21

 4.6 Land Requirements..... 21

 4.6.1 Alternative A: Build New Groundwater Wells 21

 4.6.2 Alternative B: Replace Existing Pump Station..... 21

 4.6.3 Alternative C: Replace and Extend Existing Pump Station..... 21

4.6.4	Alternative D: Build a New Pump Station	21
4.6.5	Alternative E: Build a Cofferdam.....	21
4.6.6	Alternative F: Pump Station Extension with Solar Power	21
4.7	Potential Construction Problems.....	21
4.8	Sustainability Considerations.....	22
4.8.1	Alternative A: Build New Groundwater Wells	22
4.8.2	Alternative B: Replace Existing Pump Station.....	23
4.8.3	Alternative C: Replace and Extend Existing Pump Station.....	23
4.8.4	Alternative D: Build a New Pump Station	23
4.8.5	Alternative E: Build a Cofferdam.....	23
4.8.6	Alternative F: Pump Station Extension with Solar Power	23
4.9	Cost Estimates.....	24
4.9.1	Alternative A: Build New Groundwater Wells	25
4.9.2	Alternative B: Replace Existing Pump Station.....	26
4.9.3	Alternative C: Replace and Extend Existing Pump Station.....	27
4.9.4	Alternative D: Build a New Pump Station	28
4.9.5	Alternative E: Build a Cofferdam.....	29
4.9.6	Alternative F: Pump Station Extension with Solar Power	30
5	Selection of an Alternative	31
5.1	Life Cycle Cost Analysis	31
5.2	Non-Monetary Factors.....	31
6	Proposed Project	33
6.1	Preliminary Project Design.....	33
6.1.1	Water Supply.....	36
6.1.2	Treatment	36
6.1.3	Storage	36
6.1.4	Pumping Station.....	36
6.1.5	Distribution Layout.....	36
6.2	Project Schedule	36
6.3	Permit Requirements.....	38
6.4	Sustainability Considerations.....	38
6.5	Total Project Cost Estimate.....	38
6.6	Annual Operating Budget	39
6.6.1	Income	39

6.6.2	Annual O&M Costs	39
6.6.3	Debt Repayments.....	40
6.6.4	Reserves	40
6.6.4.1	Debt Service Reserve	40
6.6.4.2	Short-lived Asset Reserve	40
7	Conclusions and Recommendations.....	42

LIST OF TABLES

Table 1-1	– Estimated Population of the District.....	6
Table 2-1	– District Water Storage.....	7
Table 2-2	– District Water Sources	7
Table 2-3	– District Water System Components.....	10
Table 2-4	– 2019 Water Production.....	11
Table 2-5	– District User Rates.....	15
Table 2-6	– Water System Connections.....	15
Table 2-7	– 2019-20 Fiscal Year Operating Budget.....	16
Table 2-8	– Water Treatment Plant Improvement Loan	16
Table 4-1	– Summary of Alternatives.....	18
Table 4-2	– Well Design Criteria.....	19
Table 4-3	– Pump Station Design Criteria	20
Table 4-4	– Cofferdam Design Criteria.....	20
Table 4-5	– Location of Alternatives	20
Table 4-6	– Estimated Annual District O&M Expenses by Alternative	24
Table 4-7	– Cost Estimate for Groundwater Wells	25
Table 4-8	– Cost Estimate for Pump Replacement	26
Table 4-9	– Cost Estimate for Pump Extension.....	27
Table 4-10	– Cost Estimate for New Pump Station.....	28
Table 4-11	– Cost Estimate for Building a Cofferdam	29
Table 4-12	– Cost Estimate for Pump Station Extension with Solar Power	30
Table 5-1	– Life Cycle Cost Analysis	31
Table 6-1	– Pump Criteria	36
Table 6-2	– Project Schedule.....	37
Table 6-3	– Project Cost Estimate	39
Table 6-4	– Annual O&M Expenses.....	40
Table 6-5	– Annual Debt Repayment.....	40
Table 6-6	– Short-Lived Assets for Water System.....	41
Table 7-1	– Construction and Non-Construction Costs.....	42

LIST OF FIGURES

Figure 1-1 – Aerial Map of LDPCSD 3
 Figure 1-2 – USGS Topographic Map of LDPCSD..... 4
 Figure 1-3 – Rolling Hills in LDPCSD 5
 Figure 1-4 – Lake McClure and Surrounding Hills 5
 Figure 2-1 – System Map 8
 Figure 2-2 – Raw Water Intake Pump Station..... 12
 Figure 2-3 – The McClure Barge..... 12
 Figure 2-4 – Raw Water Intake Pump Station Diagram 13
 Figure 2-5 – Connection to Water Treatment Plant 14
 Figure 4-1 – Lake McClure Water Level 22
 Figure 6-1 – Project Location 34
 Figure 6-2 – Proposed New System 35

APPENDICES

Appendix A	Water Distribution Map	Appendix F	2018 Hazard Mitigation Plan
Appendix B	Service Line Replacements	Appendix G	Schedule of Rates and Charges
Appendix C	Pump #2 Improvement Project	Appendix H	2019-20 Annual Budget
Appendix D	Barge Rehabilitation Project	Appendix I	2017-18 Audit
Appendix E	Pump Station and Barge Photos	Appendix J	MID Water Contract

ABBREVIATIONS

ACP	Asbestos Cement Pipe
ASL	Above Sea Level
ATC	Authority to Construct
CEQA	California Environmental Quality Act
EA	Each
FTE	Full-time Equivalent
Gal	Gallons
gpd	Gallons per day
gpm	Gallons per minute
hcf	hundred cubic feet
HP	Horsepower
HSLA	High Strength Low Alloy
ISMND	Initial Study/Mitigated Negative Declaration
LCC	Life Cycle Cost
LDPCSD/ District	Lake Don Pedro Community Services District
LF	Linear Feet
LS	Lump Sum
MGD	Million Gallons per Day
MID	Merced Irrigation District
NEPA	National Environmental Policy Act
O&M	Operations and Maintenance
PER	Preliminary Engineering Report
PTE	Part-time Equivalent
PVC	Polyvinyl Chloride
RUS	Rural Utility Service
SCADA	Supervisory Control and Data Acquisition
USDA	United States Department of Agriculture
WTP	Water Treatment Plant

Purpose

The purposes of this Preliminary Engineering Report (PER) are to:

1. Describe the Lake Don Pedro Community Services District (LDPCSD/District) and the current raw water delivery system;
2. Describe the condition of the LDPCSD's raw water intake pump station;
3. Analyze alternatives for correcting deficiencies at the District's raw water intake pump station;
4. Provide a recommendation for the most cost-effective course of action to improve the performance and reliability of the raw water intake pump station; and
5. Aid the LDPCSD in obtaining funding from the United States Department of Agriculture (USDA) to implement the recommendations of the PER.

This PER is intended to meet the requirements of the USDA's Rural Utility Service (RUS) Bulletin 1780-2 for the Water and Waste Disposal Loan and Grant Program. USDA guidelines require the analysis and discovery of implications for project-related factors that include but are not limited to the following: environmental impact(s), project sustainability, technical feasibility, water and energy efficiency, economic feasibility, life-cycle analysis, and the awareness and support of the general public. These factors, implications, and costs are discussed in this PER.

1 Project Planning

1.1 Project Summary

The LDPCSD serves approximately 1,400 active connections and a population of 2,737. The District has two sources of water supply: surface water from Lake McClure and four hard rock wells. The surface water system, referred to in this PER as the Raw Water Intake Pump Station, consists of dual submersible pumps installed at Lake McClure within screened steel casings that have a combined capacity of 3,600 gallons per minute (gpm). The four wells can generally produce a combined 355 gpm, but their capacity fluctuates with the time of year.

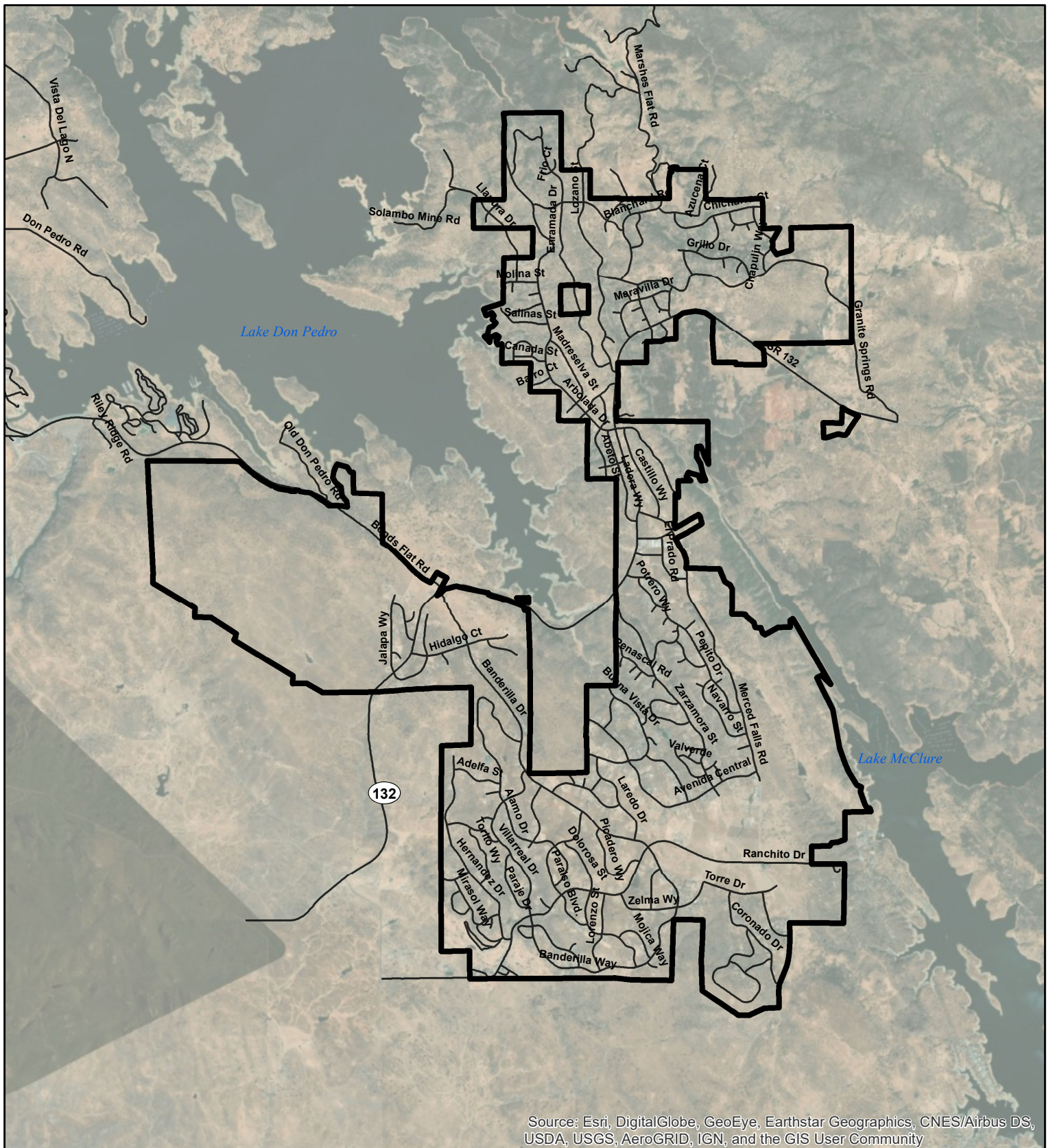
The surface water treatment system includes a clarification and pressure filtration process followed by a disinfection step. The capacity of the surface water treatment plant is 1,400 gpm. The water treatment plant also includes a backwash supply pump station, backwash treatment, and treated backwash return pump station. A water storage tank and booster pump station are located at the treatment plant as well.

On an annual basis during periods of maximum demand, the District is in jeopardy of not providing adequate water supply to its residents. The surface water supply from Lake McClure is not reliable in drought conditions and only one of the raw water intake pumps is functional. When Lake McClure's water level drops below 700 feet above sea level (ASL), the District uses the McClure Barge, which is an emergency barge, to pump water from the lake into a storage tank at the pump station. The water is then transferred to the water treatment plant using booster pumps.

The reliability of the four wells is unsure since drought conditions can severely impact their capacity. If the functional raw water intake pump fails, the District will be solely reliant on well water, which is insufficient on its own. To mitigate this risk, it is recommended that the raw water intake pump station be replaced and extended deeper into Lake McClure.

1.2 Location



The District includes sections of Mariposa and Tuolumne Counties and lies between Lake McClure and Lake Don Pedro. An aerial view of the service area is shown in **Figure 1-1** and a topographical map is in **Figure 1-2**.



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Legend

-  District Boundary
-  County Routes

0 0.3 0.6 1.2 1.8 2.4 Miles

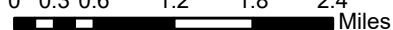
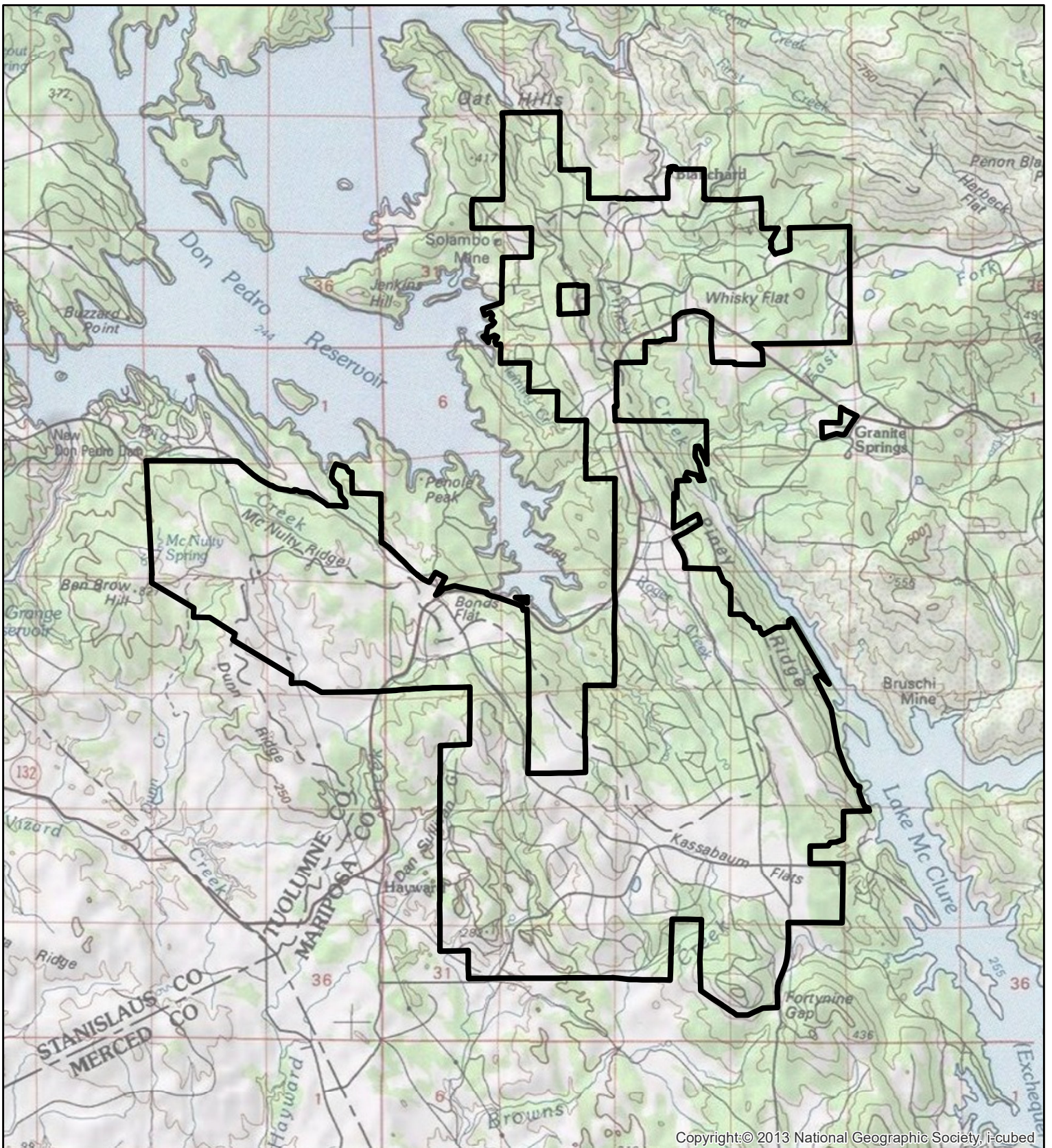


Figure 1-1

Aerial Map

Lake Don Pedro
Community Services District


BLACK
WATER
CONSULTING
ENGINEERS, INC.



Copyright:© 2013 National Geographic Society, i-cubed



Legend

 Sphere of Influence

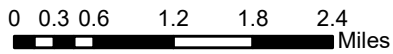


Figure 1-2

Topographic Map

Lake Don Pedro
Community Services District

BLACK
WATER
CONSULTING
ENGINEERS, INC.

1.3 Environmental Resources

The District is in the foothills of the Sierra Nevada. Lake Don Pedro is at the northwest edge of the District, and the top of Lake McClure aligns with the southern half of the District’s eastern border. **Figure 1-3** shows the rolling hills present in the area with Lake McClure at a low lake level in the background. **Figure 1-4** shows an overhead view of the lake during the most recent drought.

Figure 1-3 – Rolling Hills in LDFPCSD



Figure 1-4 – Lake McClure and Surrounding Hills



The California Environmental Quality Act (CEQA) requires that all state and local government agencies consider the environmental consequences of projects over which they have discretionary authority before they approve or implement those projects. Upon project approval, an Initial Study/Mitigated Negative Declaration (ISMND) will be prepared by the District. All mitigations listed in the document will be implemented to minimize environmental impact.

In addition to being CEQA compliant, the project will comply with the National Environmental Policy Act (NEPA). An environmental study that meets NEPA requirements for the recommended project will be conducted upon project approval.

1.4 Population Trends

Population data is limited because the District crosses multiple counties and is not defined by a city or town boundary. **Table 1-1** shows the population projection for the service area based on data from the U.S. Census Bureau. This projection has the annual growth rate at -0.035%.

Table 1-1 – Estimated Population of the District

Year	Estimated Population
1990	2,812
2000	2,868
2010	2,742
2020	2,737
2030	2,702
2040	2,667
2050	2,632

1.5 Community Engagement

The District will provide written notices to property owners within its boundaries. The notices will contain helpful information as to the locations affected by the project and provide information regarding the purpose, benefits, and schedule of the project. Notices will also describe the project costs, sources of funding, and impacts on the ratepayers. Project updates will be provided on the District’s Facebook page and at monthly board meetings.

2 Existing Facilities

The District has eight (8) water storage facilities with a total storage capacity of 4,352,000 gallons (**Table 2-1**). Additionally, the District has five (5) water sources that have a combined operating capacity of 3,955 gpm (**Table 2-2**).

Table 2-1 – District Water Storage

Name	Size (kGal)
Alamo Reservoir	500
Arbolada Tank	2
Arbolada Reservoir	500
Central Reservoir	2,000
Coronado Reservoir	500
Enebro Reservoir	250
Lazo Reservoir	100
Sturtevant Reservoir	500
Total	4,352

Table 2-2 – District Water Sources

Name	Type	Operating Capacity (gpm)
Raw Water Intake Pump Station (Lake McClure)	Surface Water	3,600
Medina #1	Groundwater	90
Medina #2	Groundwater	100
Ranchito #1	Groundwater	75
Ranchito #2	Groundwater	90

2.1 Facility Layout Map

A map of the water system components is shown in **Figure 2-1**. A map of the water distribution piping is **Appendix A**.


LEGEND

- ▲ BOOSTER STATION
- RESERVOIR
- ▲ HYDROPNEUMATIC TANK
- TREATMENT PLANT
- POTABLE WELL
- PUMP STATION
- PIPE LOCATION
- ◻ PRESSURE REDUCING VALVE

KEY LOCATIONS	
1	ARBOLADA RESERVOIR
2	TULIPAN BOOSTER STATION
3	STURTEVANT RESERVOIR
4	ENEbro RESERVOIR & BOOSTER STATION
5	ARBOLADA HYDROPNEUMATIC TANK & BOOSTER STATION
6	ALAMO RESERVOIR, BOOSTER STATION AND HYDROPNEUMATIC SYSTEM
7	CENTRAL RESERVOIR & BOOSTER STATION
8	WATER TREATMENT PLANT AND BOOSTER STATION
9	RAW WATER INTAKE PUMP STATION
10	RANCHITO WELLS
11	CORONADO RESERVOIR AND BOOSTER STATION
12	LAZO RESERVOIR
13	MEDINA WELLS

FIGURE 2-1
SYSTEM MAP

LAKE DON PEDRO
COMMUNITY SERVICES DISTRICT
JUNE, 2020

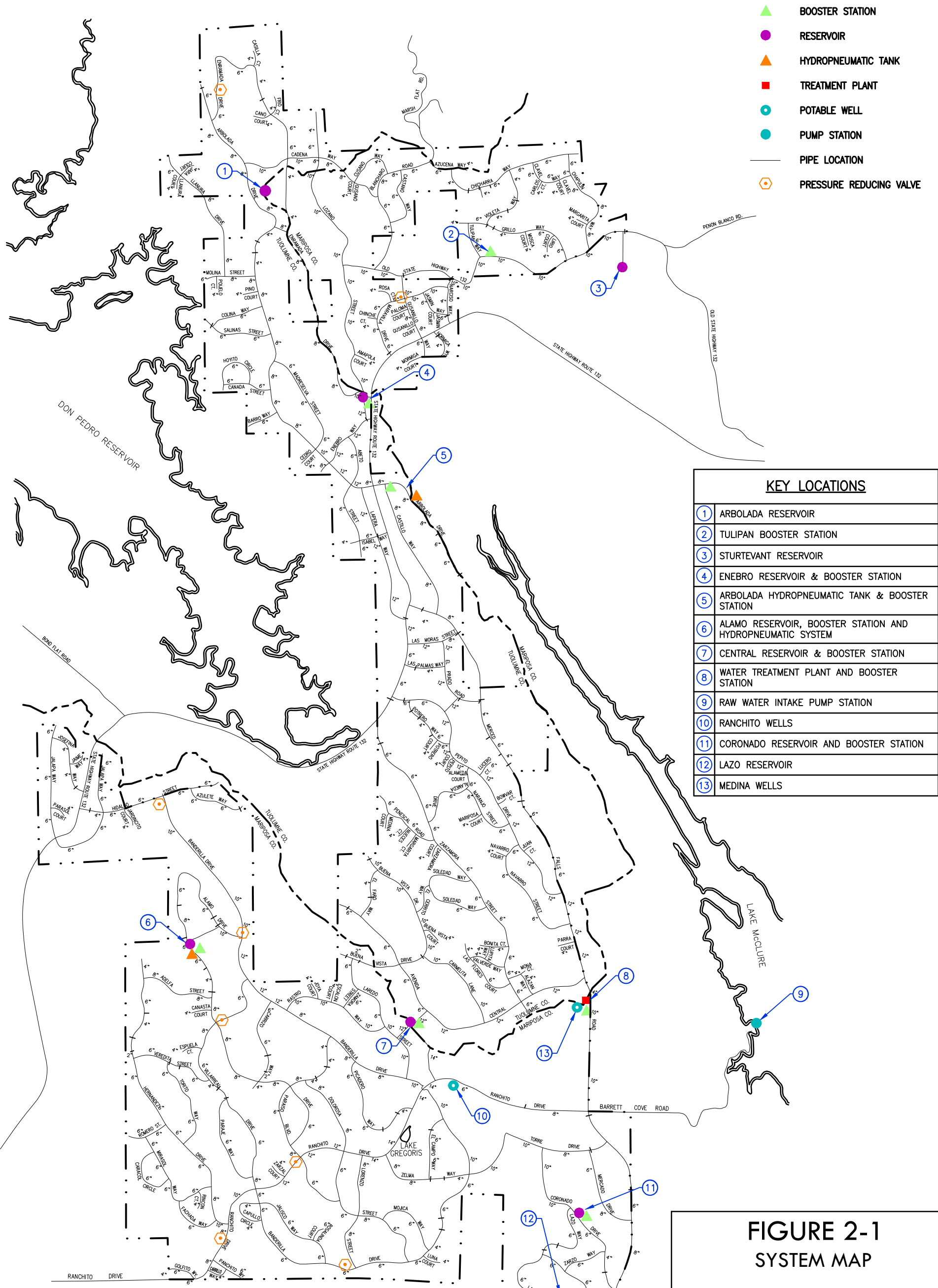


0 3000' 6000'

SCALE: 1"=3000'

BLACKWATER
CONSULTING ENGINEERS, INC.
602 LYELL DRIVE, MODESTO, CA 95356 PH. 209.322.1820

I:\J18210 LAKE DON PEDRO CSD\CAD_TASK-20A PER EXHIBITS\SYSTEM MAP.DWG PLOT: 6/17/2020 1:58:03 PM BY STEPHANIE DE WELCO



History

The water system was installed when the District was founded in 1966. The system has two types of water supply: surface water from Lake McClure and four hard rock wells. The District solely relied on surface water from two lake intake pumps until the 2011 to 2019 drought. At that time, Lake McClure's water level dropped below the lowest lake intake. The McClure Barge, which has emergency floating raw water pumps, was used when the water level dropped below 700 feet ASL. However, as the water level continued to drop, Lake McClure was not able to be used for water supply due to federal and state controls on the minimum lake level.

Under an emergency project, the LDPCSD drilled 15 test wells at various sites and found three wells that supply a combined 280 gpm. The fourth was built on private property in the 1990s and purchased by the District during the drought. The four wells were the sole suppliers of water to the District until Lake McClure's water level surpassed 585 feet ASL.

The lake intake pumps were both installed in 1966. In the 1990s, Pump #2 was renovated to fix its defects and upgraded to 200 HP. However, the pump is no longer functional. The District is in the process of rehabilitating the McClure Barge.

The District has a networked water distribution system and is in the process of upgrading and replacing some of the water service lines to reduce water loss and install meters. The original treated water mains in the system were constructed primarily using asbestos cement pipes (ACP), and 2-inch and 4-inch connection lines were installed using polyvinyl chloride (PVC) pipe. PVC C900 is used during repairs to replace the ACP water mains, but the system still primarily consists of ACP. Untreated water is transported from the groundwater well and surface water locations to the water treatment plant using welded steel pipe. Water meters are installed at all residential and commercial locations, excluding vacant lots.

The water system components and their statuses are shown in **Table 2-3**. A report with service line replacements done from 2013-2019 is in **Appendix B**.

Table 2-3 – District Water System Components

Name	Year Built	Year Renovated	Status
Lake Intake Pump #1 (125 HP)	1966		Needs Work
Lake Intake Pump #2 (200 HP)	1966	The 1990s	Not Functional
Surface Water Treatment Plant	1966	The 2010s	Functional
Distribution System Piping	1966	Present	Needs Work
McClure Barge	The 1970s	Present	Not Functional
Alamo Reservoir & Hydropneumatic System	1982		Functional
Arbolada Hydropneumatic System	1982		Functional
Arbolada Reservoir	1982		Functional
Central Reservoir & Booster	1982		Needs Work
Coronado Reservoir & Booster	1982		Functional
Enebro Reservoir & Booster	1982	1997	Needs Work
Lazo Reservoir	1982		Functional
Sturtevant Reservoir	1982		Functional
Tulipan Booster	1982	2003	Needs Work
Ranchito Well #1	1993	2015	Functional
Ranchito Well #2	2015		Functional
Medina Well #1	2015		Functional
Medina Well #2	2015		Functional

2.2 Existing Conditions

The District produced a total of 151,457,000 gallons of water in 2019 as shown in **Table 2-4**. 11% of raw groundwater and surface water was lost in transfer to the water treatment plant. The maximum day demand in 2019 was 1.150 MGD on September 25, 2019. The water produced from groundwater fluctuates with the time of year and rainfall. The percentage of the District’s potable water provided by the four groundwater wells in 2019 ranged from 33% in January to 3% in November, with an average of 15% of water produced by the wells.

Table 2-4 – 2019 Water Production

Month	Groundwater (kGal)	Lake Intake (kGal)	Total Potable Water Produced (kGal)	Water Measurement at Treatment Plant (kGal)	Water Loss (%)
Jan	3,912	8,014	11,926	10,810	9%
Feb	865	7,906	8,770	7,044	20%
Mar	3,265	7,377	10,642	8,987	16%
Apr	3,149	9,479	12,627	10,735	15%
May	3,589	9,876	13,465	11,697	13%
Jun	2,513	15,487	18,000	17,109	5%
Jul	2,748	19,922	22,670	20,996	7%
Aug	1,917	22,290	24,206	23,204	4%
Sep	5,506	14,911	20,417	17,484	14%
Oct	1,685	18,011	19,696	16,787	15%
Nov	371	10,643	11,014	10,040	9%
Dec	574	8,075	8,648	7,374	15%
Total	26,180	143,976	170,156	151,457	11%

The raw water intake pump station has two submersible horizontal pumps. Pump #2 is not functional, and Pump #1 allows water to drain into the lake after the pump shuts off. A secondary valve on the pump control valve can be closed to stop the water loss; however, this deactivates the automatic control of the pump control valve, essentially rendering it a manual valve. The manufacturer of this valve, along with other system valves, is no longer in business which increases the difficulty of service. With only one functional pump at the raw water intake pump station, the system lacks redundancy. A photo of the raw water intake pump station is in **Figure 2-2**. The plan set for the Pump #2 Rehabilitation Project is in **Appendix C**.

The McClure Barge is used when the lake intake level falls below 700 feet ASL. The barge connects directly to a water tank that is near the pump station. The water is then transferred to the water treatment plant using two booster pumps. The McClure Barge is currently under construction. A photo of the McClure Barge in use prior to the rehabilitation project is shown in **Figure 2-3**. The plan set for its ongoing rehabilitation project is in **Appendix D**.

A diagram showing the Raw Water Intake Pump Station is in **Figure 2-4**. The path of the welded steel pipeline that connects the raw water intake pump station to the water treatment plant is in **Figure 2-5**. Additional photos of the raw water intake pump station and the Barge are in **Appendix E**. The connection to the water treatment plant is leaking and has needed frequent repairs in the last few years.

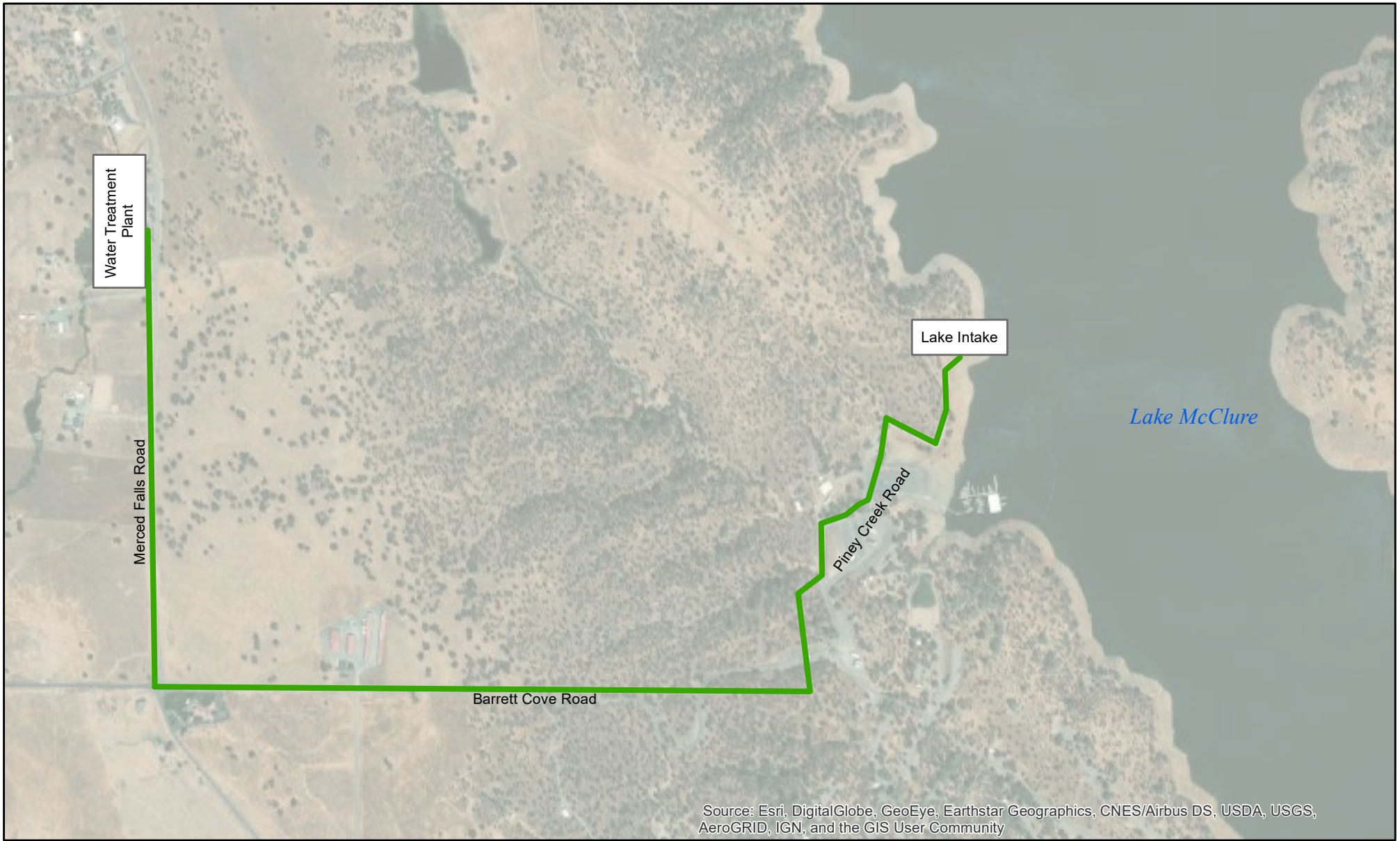
The Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan 2018 Annex V (**Appendix F**) was created to address risks faced by the District. Much of the work done on the water system in recent years has been in alignment with this plan, which was created to mitigate hazards that contributed to the water shortage during the 2011-2019 drought.

Figure 2-2 – Raw Water Intake Pump Station



Figure 2-3 – The McClure Barge





Legend

 18" Welded Steel Pipe

0 0.1 0.2 0.4 Miles




Figure 2-5 - Connection to Water Treatment Plant

Lake Don Pedro
Community Services District

BLACK
WATER
CONSULTING
ENGINEERS, INC.

2.3 Financial Status

The District’s current rate schedule is shown in **Table 2-5**. These rates were set in July 2014 using a progressive schedule (**Appendix G**). The number of water system connections is shown in **Table 2-6**. **Table 2-7** shows the breakdown of operations and maintenance (O&M) expenses by category based on the District’s 2019-20 Annual Budget (**Appendix H**).

Table 2-5 – District User Rates

Meter Size	Monthly Service Charge
5/8-inch	\$ 53.00
3/4-inch	\$ 80.00
1-inch	\$ 106.00
1-1/2-inch	\$ 159.00
2-inch	\$ 265.00
3-inch	\$ 530.00
4-inch	\$1,060.00
Water Usage Rate Rate per hcf*	\$ 2.00
Water Availability	\$60-180

* 1 hcf = 100 cubic feet, or about 750 gallons of water.

Table 2-6 – Water System Connections

Type of Connection	Number of Connections
Single-family Residential	1,430
Multi-family Residential	15
Commercial/Institutional	8
Industrial	9
Landscape Irrigation	2
Total Connections	1,464

Table 2-7 – 2019-20 Fiscal Year Operating Budget

Item	Cost
Personnel	\$705,000.00
Administration	\$55,000.00
Office Supplies	\$3,000.00
Accounting & Auditing	\$9,000.00
Legal Fees	\$10,000.00
Water Treatment	\$4,500.00
Water Purchase	\$71,000.00
Chemicals	\$21,000.00
Repair & Maintenance	\$143,000.00
Business Insurance	\$49,000.00
Professional Services	\$112,000.00
Energy	\$157,000.00
Monitoring & Testing	\$16,000.00
Utilities	\$4,000.00
Supplies	\$1,500.00
Interest	\$40,500.00
Miscellaneous	\$12,500.00
Total	\$1,414,000.00

The salaries and benefits include four full-time equivalent employees (FTEs) and one part-time equivalent employee (PTE). The FTEs include the Office Manager/Board Secretary, the Operations Manager, the Operations Lead, and the Water Operator. The PTE is the Office Assistant.

The District secured financing with Board approval on July 17, 2006, for improvements to the water treatment plant. Repayment is made to the Municipal Financial Corporation in semi-annual payments, as shown in **Table 2-8**.

Table 2-8 – Water Treatment Plant Improvement Loan

Authorized Amount	\$1,500,000
Loan Balance	\$738,000
Interest Rate	4.95%
Semi-Annual Payments	\$59,503
Final Maturity	2026

The District previously received grants through the California Department of Water Resources and the Integrated Regional Water Management Plan. The funding was used to replace service lines, install wells, and make repairs to the McClure Barge.

The District’s 2018 Fiscal Year Audit is in **Appendix I**.

3 Need for Project

3.1 Health, Sanitation, and Security

The District needs a reliable water supply for its residents. The region has a limited supply of groundwater, and the amount available fluctuates by the time of year and rainfall. Despite 15 test wells being drilled in 2015, only three low-producing and unreliable groundwater wells were built. The District is at risk of losing approximately 85% of its water supply if the working raw water intake pump, which already does not function properly, goes out-of-service. Approximately 11% of water that is produced by the system is lost in transfer to the water treatment plant. The altitude valves and pressure reducing valves in the water system are past their useful life and need replaced.

Even when both pumps are functional, the surface water supply from Lake McClure is susceptible to drought conditions that can eliminate surface water as a raw water source. Towards the end of the most recent drought, the District was not able to use water from Lake McClure. The District used groundwater wells to meet demands with strict emergency water conservation (<50 gpd per person limit) guidelines. The District was weeks away from being without water for the community when it was finally able to resume use of the surface water intake pump station.

If the system remains in its current state, energy and water losses will continue. Eventually, it is expected that the remaining raw water intake pump will stop working. If surface water becomes inaccessible during a period of maximum demand, the District will have to enforce strict emergency water conservation guidelines on its residents. Even with the four active groundwater wells, it will not take long for the District to run out of water supply and be required to either import water or purchase bottled water for its residents until an emergency solution can be implemented.

3.2 Infrastructure Issues

The LDPCSD is experiencing significant energy and water losses due to the failing pumping system, which is over 50 years old. The useful life of pumping systems is generally 15-20 years. One of the raw water intake pumps was renovated in the late 1990s, at which point the pumps were over 30 years old. The renovated pump has failed due to electrical issues in the system. To ensure that repairs will be sustainable and address the issue of aging infrastructure, any project alternative that utilizes the raw water intake pump station must replace its submersible pumps, piping, valves, and power and controls. Since most of the elements are 50 years old and the portion of the system that was renovated in the 1990's no longer works, the stationary pump portion of the raw water intake pump station has surpassed its useful life.

Once renovations are completed, the useful life of the McClure Barge will be approximately 20 years. The renovation project for the McClure Barge has been quite difficult to complete, so it is desirable for the project alternative to remove the need for a barge when lake levels drop below 700 ft ASL. The water tank that is used with the McClure Barge should last at least another 30 years. A second booster pump was added to send water from the McClure Barge water tank to the water treatment plant in the 2010s. The booster pumps should last at least another 10 years.

3.3 Reasonable Design Capacity

The current annual growth rate according to U.S. Census Bureau data is -0.035%. Since the population is not expected to grow in the next 20 years, any future planning will focus on maintaining water supply rather than increasing it.

4 Alternatives Considered

4.1 Project Need and Solution

The District needs a reliable water source that is sustainable, efficient, and can continue to provide adequate water supply to the community in drought conditions. The water system collects water through two sources: groundwater wells and surface water from Lake McClure, with the main source being surface water.

The alternatives analyzed in this PER include:

- A. Adding groundwater wells to the water system to replace the raw water intake pump station;
- B. Replacing the pumps at the raw water intake pump station and continuing to use the McClure Barge when water levels drop below the pump set levels;
- C. Replacing and extending the raw water intake pump station deeper into Lake McClure;
- D. Building a new raw water intake pump station at McClure Point;
- E. Building a cofferdam at the bottom of Lake McClure; and
- F. Replacing and extending the raw water intake pump station and using solar panels.

A summary of the four alternatives is shown in **Table 4-1**.

Table 4-1 – Summary of Alternatives

Project Components	Alt. A	Alt. B	Alt. C	Alt. D	Alt. E	Alt. F
New Groundwater Wells	X					
New Pump(s) and Motor(s)	X	X	X	X	X	X
New Power & Controls	X	X	X	X	X	X
New Piping and Valves	X	X	X	X	X	X
Deepening of Lake McClure Water Access			X	X	X	X
New Pump Station				X	X	
New Water Line to Water Treatment	X			X		
Construction Agreement with MID		X	X	X	X	X
New Construction Project	X			X	X	

The Water Rights Agreement with Merced Irrigation District (MID Agreement) signed in 2008 is in **Appendix J**. The MID Agreement establishes guidelines for construction on MID property, the extension of the intake pipes to 635 feet ASL, and the construction of a new intake pump station at McClure Point. Based on these established guidelines, obtaining an agreement with MID as required for Alternatives B, C, D, or F should not come with significant issues. Because the raw water intake pump station does not pump more than 1,000,000 gpd, the District will not need to submit the project design to the Federal Energy Regulatory Commission for approval.

4.2 Description of Alternatives

4.2.1 Alternative A: Build New Groundwater Wells

Alternative A installs two new groundwater wells on land that is already owned by the District. The new wells would need to produce enough water to replace surface water demand entirely.

4.2.2 Alternative B: Replace Existing Pump Station

Alternative B rehabilitates the raw water intake pump station. The submersible pumps, piping, valves, and power and controls would be replaced in this alternative.

4.2.3 Alternative C: Replace and Extend Existing Pump Station

Alternative C rehabilitates the raw water intake pump station, as described in Alternative B, and extends the pumps and piping deeper into Lake McClure to an elevation of 635 feet ASL.

4.2.4 Alternative D: Build a New Pump Station

Alternative D abandons the current pump station and constructs an entirely new station at McClure Point. Rather than using an identical design, the new pump station would include updates to make the water intake process more automated and efficient. The new pump station would place the submersible pumps at approximately 550 feet ASL.

4.2.5 Alternative E: Build a Cofferdam

Alternative E builds a cofferdam at the lake bottom near the raw water intake pump station. Floating pumps would send water from the cofferdam to the existing raw water intake pump station. This alternative utilizes the existing pipeline between the raw water intake pump station and the water treatment plant.

4.2.6 Alternative F: Pump Station Extension with Solar Power

Alternative F replaces and extends the existing raw water intake pump station as described in Alternative C. Additionally, this alternative adds solar panels to the surrounding area to power the system.

4.3 Design Criteria

The design criteria for Alternative A are shown in **Table 4-2**. The design criteria for Alternatives B, C, D, and F are shown in **Table 4-3**. The design criteria for Alternative E are shown in **Table 4-4**.

Table 4-2 – Well Design Criteria

Parameter	Value
Minimum Sewer Line Separation	50 ft
Minimum Annular Seal Depth	50 ft
Minimum Radial Thickness of Seal	2 in
Well Casing Material	HSLA Steel
Reliable pumping capacity (ea.)	150 gpm

Table 4-3 – Pump Station Design Criteria

Parameter	Value
Pumping Capacity	1,400 gpm/ea.
Number and Type of pumps	2 / Submersible
Pump Set Elevation	700*/635 ft ASL
High Water Level	867 ft ASL
Pipe Material	HSLA Steel
Hazen-Williams' C	100
Velocity, pipe	Minimum 2 ft/s (2-10 ft/s typ.)
Pipe Pressure	Maximum 150 psi

*Pump Set Elevation is 700 ft ASL for Alternative B only

Table 4-4 – Cofferdam Design Criteria

Parameter	Value
Pumping Capacity	1,400 gpm/ea.
Number and Type of pumps	2 / Floating
Lake Bottom	540 ft ASL
High Water Level	867 ft ASL
Cofferdam Height	410 ft (25% taller than maximum water level)
Cofferdam Material	Steel Sheet Piles
Pipe Material	HSLA Steel
Hazen-Williams' C	100
Velocity, pipe	Minimum 2 ft/s (2-10 ft/s typ.)
Pipe Pressure	Maximum 150 psi

4.4 Map

Table 4-5 shows the location of each alternative.

Table 4-5 – Location of Alternatives

Alt.	Location
A	To be determined; Land currently owned by the District is preferred
B	Same as current lake intake system
C	Same as current lake intake system
D	McClure Point; See Exhibit B of the MID Agreement
E	Deepest point of Lake McClure near the current lake intake system
F	Same as current lake intake system

4.5 Environmental Impacts

The environmental impact of the selected alternative will be minimized by implementing the mitigation measures that will be identified in the ISMND. Additional environmental impact information will be obtained by conducting an environmental study to satisfy NEPA requirements after a recommended project has been identified.

The addition of wells would likely impact the groundwater resources in the area and be subject to the Sustainable Groundwater Management Act and the local Groundwater Sustainability Agency. The alternatives that use surface water would impact the lakebed and shoreline of any location where the pumps and piping will be modified. Solar energy is a preferred source of energy when considering environmental impact. Until studies are performed, there is limited information on the impact that each alternative could have on the environment.

4.6 Land Requirements

4.6.1 Alternative A: Build New Groundwater Wells

It is assumed in this alternative that new groundwater wells would be located on a parcel that the District owns, such as one that contains a reservoir. This would remove the need to acquire easements or new land. However, new land may need to be purchased depending on groundwater availability.

4.6.2 Alternative B: Replace Existing Pump Station

The pump replacement alternative would not require any additional land or easements.

4.6.3 Alternative C: Replace and Extend Existing Pump Station

The pump extension alternative is designed for the pumping and piping equipment to be extended further into Lake McClure. This does not require the acquisition of new land, but an agreement between MID and the District will be necessary.

4.6.4 Alternative D: Build a New Pump Station

Land must be purchased or leased at McClure Point if this alternative is selected. The attainment of right-of-way in the form of easements and/or leases would be required, particularly for connecting the new pump station to the water treatment plant using approximately 6 miles of pipeline. Alternative D requires a modification to the water rights permits because of the change of location and deeper intake location. However, the outline for this agreement was included in the most recent agreement signed in 2008.

4.6.5 Alternative E: Build a Cofferdam

Building a cofferdam does not require land purchase, but an agreement to build in Lake McClure must be made with MID.

4.6.6 Alternative F: Pump Station Extension with Solar Power

In addition to the requirements mentioned in Alternative C, the solar panels would use approximately 0.75 acres of land. The land would either need to be on the existing parcel or purchased/leased nearby.

4.7 Potential Construction Problems

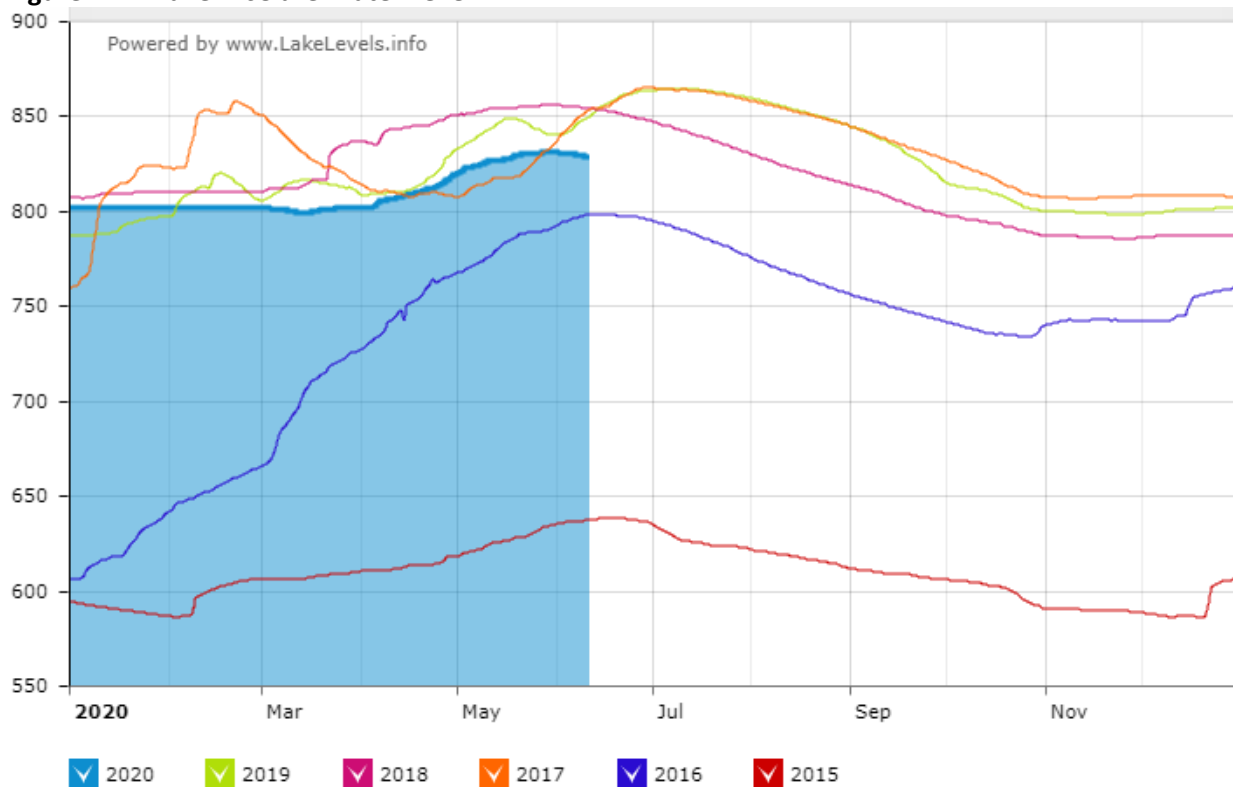
Potential construction problems associated with building new groundwater wells include:

- Inadequate groundwater supply at drilling sites

- Potentially poor water quality
- Contaminants in the groundwater supply that require additional water treatment

The lake levels from January 2015 to June 2020 are shown in **Figure 4-1**. The construction of a raw water intake pump station or cofferdam must be coordinated with managed lake levels and the need for specialized construction methods, including divers. Construction must not interfere with the District’s ability to meet the water system demands during the construction period.

Figure 4-1 – Lake McClure Water Level



4.8 Sustainability Considerations

The current system requires a significant amount of manual labor for operation and does not intake water efficiently. Raw water is continually leaking during intake due to the failing pump control valve, which decreases operational efficiency and wastes energy. Furthermore, reliance on the single remaining operational pump leaves the District susceptible to losing access to lake water if the working pump goes out-of-service.

4.8.1 Alternative A: Build New Groundwater Wells

Aquifers vary in water level based on time of year and rainfall, leaving them susceptible to drought conditions. This method may also impact nearby private wells. Based on the water production previously shown in **Table 2-4**, it is highly unlikely that the District’s water supply can be sustainably met through groundwater wells exclusively. One environmental benefit of using groundwater wells is that they require significantly less energy to run than raw water intake pumps.

4.8.2 Alternative B: Replace Existing Pump Station

Replacing the pumps and valves would mitigate the issues of water loss and energy waste in the system and provide reliable water to the District. The use of electric pump motors for this alternative is sustainably preferred to fossil fuel-powered generators that would otherwise be used to pump water from Lake McClure to the District's water treatment plant. This alternative requires the McClure Barge to be used to extend pumping capabilities if the water level falls below 700 feet ASL. This reduces the pump capacity from 3,600 gpm to 2,200 gpm.

4.8.3 Alternative C: Replace and Extend Existing Pump Station

Replacing the pumps and valves would mitigate the issues of water loss and energy waste in the system and provide reliable water to the District. The pump extension alternative would extend the usability of the raw water intake pump station when water levels drop and prepare the District for future droughts. Implementation of this alternative would decrease the District's reliance on groundwater as an alternative water source and improve the sustainability of the regional groundwater supply. The use of electric pump motors for this alternative is also sustainably preferred to fossil fuel-powered generators that would otherwise be used to pump water from Lake McClure to the District's water treatment plant. The McClure Barge would still be necessary if water level falls below 635 feet ASL.

4.8.4 Alternative D: Build a New Pump Station

Building a new pump station would mitigate the issues of water loss and energy waste in the system and provide reliable water to the District. The new pump station alternative would increase surface water accessibility when water levels drop and prepare the District for future droughts. Implementation of this alternative would decrease the District's reliance on groundwater as an alternative water source and improve the sustainability of the regional groundwater supply. The use of electric pump motors for this alternative is also sustainably preferred to fossil fuel-powered generators that would otherwise be used to pump water from Lake McClure to the District's water treatment plant.

4.8.5 Alternative E: Build a Cofferdam

Building a cofferdam with float pumps would mitigate the issues of water loss and energy waste in the system and provide reliable water to the District. The cofferdam would be ideal in droughts but is not a very sustainable or ideal solution for typical water levels. The use of electric pump motors for this alternative is also sustainably preferred to fossil fuel-powered generators that would otherwise be used to pump water from Lake McClure to the District's water treatment plant.

4.8.6 Alternative F: Pump Station Extension with Solar Power

This alternative would have the same sustainability considerations as Alternative C with the additional benefit of producing solar power rather than using an outside energy source.

4.9 Cost Estimates

The projected District O&M budget by alternative is shown in **Table 4-6**. Alternative A is estimated to reduce energy costs by \$60,000 per year, water purchase cost by \$71,000 per year, and repair/maintenance costs by \$30,000 per year. The annual energy use of the raw water intake pump system is expected to decrease by 15% if Alternative B or C is selected, which would reduce the annual energy bill by \$10,000. If Alternative D is selected, the annual energy cost is expected to remain the same and repair/maintenance costs will increase by approximately 5% per year to service the new pipeline. If Alternative E is selected, the annual energy use is expected to decrease by 15% and the repair/maintenance cost is expected to increase by 15%. If Alternative F is selected, energy costs are expected to be reduced by \$70,000 annually and repair/maintenance costs would increase by roughly \$10,000 per year. All surface water alternatives are expected to pay 11% less for water when the system is made more efficient.

Table 4-6 – Estimated Annual District O&M Expenses by Alternative

Item	Alt. A	Alt. B/C	Alt. D	Alt. E	Alt. F
Personnel	\$705,000	\$705,000	\$705,000	\$705,000	\$705,000
Administration	\$63,500	\$63,500	\$63,500	\$63,500	\$63,500
Water Treatment	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500
Water Purchase	\$-	\$63,190	\$63,190	\$63,190	\$63,190
Chemicals	\$21,000	\$21,000	\$21,000	\$21,000	\$21,000
Repair & Maintenance	\$110,000	\$143,000	\$150,150	\$172,673	\$153,000
Business Insurance	\$49,000	\$49,000	\$49,000	\$49,000	\$49,000
Professional Services	\$131,000	\$131,000	\$131,000	\$131,000	\$131,000
Energy	\$100,000	\$147,000	\$157,000	\$147,000	\$87,000
Monitoring & Testing	\$16,000	\$16,000	\$16,000	\$16,000	\$16,000
Miscellaneous	\$53,000	\$53,000	\$53,000	\$53,000	\$53,000
Total	\$1,253,000	\$1,396,190	\$1,413,340	\$1,425,863	\$1,346,190

Opinions of Total Project Costs and any revisions thereof shall reflect compliance with American Iron & Steel requirements mandated by Section 746 of Title VII of the Consolidated Appropriations Act of 2017 (Division A - Agriculture, Rural Development, Food and Drug Administration, and Related Agencies Appropriations Act, 2017) and subsequent statutes mandating domestic preference.

4.9.1 Alternative A: Build New Groundwater Wells

The estimated construction and non-construction costs for installing two groundwater wells are shown in **Table 4-7**.

Table 4-7 – Cost Estimate for Groundwater Wells

Description	Quantity	Unit	Unit Cost	Subtotal
New Well	2	EA	\$200,000	\$400,000
Well Site Distribution Piping and Valving	2	EA	\$125,000	\$250,000
Connection to Ex. Water System, Site Piping	2	EA	\$10,000	\$20,000
Disinfection and Testing	2	EA	\$10,000	\$20,000
Electrical Controls	2	EA	\$60,000	\$120,000
60 kW Generator	1	EA	\$50,000	\$50,000
Well Site Grading, Pad, and Fencing	2	EA	\$35,000	\$70,000
Mobilization & Permits	1	LS	\$15,000	\$15,000
Total Construction Cost				\$945,000
Contingency (15%)				\$141,750
Bond and Legal Counsel (5%)				\$47,250
Interim Financing Expenses (3%)				\$28,350
Engineering Services & Construction Management (25%)				\$236,250
Materials Testing Lab (3%)				\$28,350
Environmental Report				\$75,000
Total Non-Construction Costs				\$556,950
Total Costs				\$1,501,950

4.9.2 Alternative B: Replace Existing Pump Station

The estimated construction and non-construction costs for replacing the raw water intake pump station are shown in **Table 4-8**.

Table 4-8 – Cost Estimate for Pump Replacement

Description	Quantity	Unit	Unit Cost	Subtotal
200 Horsepower Submersible Pump	1	EA	\$135,000	\$135,000
125 Horsepower Submersible Pump	1	EA	\$120,000	\$120,000
Check Valve (10-in)	2	EA	\$9,800	\$19,600
Gate valve (10-in)	2	EA	\$4,200	\$8,400
Expansion joint	2	EA	\$2,650	\$5,300
Misc. pipe and fittings	1	LS	\$100,000	\$100,000
150 kW Generator	1	EA	\$88,000	\$88,000
Electrical & Controls	1	LS	\$150,000	\$150,000
Coatings	1	LS	\$2,500	\$2,500
Mobilization and Permits	1	LS	\$15,000	\$15,000
Total Construction Cost				\$643,800
Contingency (15%)				\$96,570
Bond and Legal Counsel (5%)				\$32,190
Interim Financing Expenses (3%)				\$19,314
Engineering Services & Construction Management (25%)				\$160,950
Materials Testing Lab (3%)				\$19,314
Environmental Report				\$75,000
Total Non-Construction Costs				\$403,338
Total Costs				\$1,047,138

4.9.3 Alternative C: Replace and Extend Existing Pump Station

The estimated construction and non-construction costs for replacing and extending the raw water intake pump station are shown in **Table 4-9**.

Table 4-9 – Cost Estimate for Pump Extension

Description	Quantity	Unit	Unit Cost	Subtotal
200 Horsepower Submersible Pump	1	EA	\$135,000	\$135,000
125 Horsepower Submersible Pump	1	EA	\$120,000	\$120,000
Check Valve (10-in)	2	EA	\$9,800	\$19,600
Gate valve (10-in)	2	EA	\$4,200	\$8,400
Expansion joint	2	EA	\$2,650	\$5,300
Misc. pipe and fittings	1	LS	\$150,000	\$150,000
150 kW Generator	1	EA	\$88,000	\$88,000
Electrical & Controls	1	LS	\$150,000	\$150,000
Coatings	1	LS	\$2,500	\$2,500
Mobilization and Permits	1	LS	\$20,000	\$20,000
Total Construction Cost				\$698,800
Contingency (15%)				\$104,820
Bond and Legal Counsel (5%)				\$34,940
Interim Financing Expenses (3%)				\$20,964
Engineering Services & Construction Management (25%)				\$174,700
Materials Testing Lab (3%)				\$20,964
Environmental Report				\$75,000
Easement Acquisition / Right of Way / Water Rights Agreements				\$10,000
Total Non-Construction Costs				\$441,388
Total Costs				\$1,140,188

4.9.4 Alternative D: Build a New Pump Station

The estimated construction and non-construction costs for building a new raw water intake pump station at McClure Point are shown in **Table 4-10**.

Table 4-10 – Cost Estimate for New Pump Station

Description	Quantity	Unit	Unit Cost	Subtotal
Submersible Pump and Motor (200 HP)	1	EA	\$135,000	\$135,000
Submersible Pump and Motor (125 HP)	1	EA	\$120,000	\$120,000
Check Valve (10-in)	2	EA	\$9,800	\$19,600
Gate valve (10-in)	2	EA	\$4,200	\$8,400
Expansion joint	2	EA	\$2,650	\$5,300
Valve Vault	2	EA	\$75,000	\$150,000
Misc. pipe and fittings (Lake Intake)	1	LS	\$250,000	\$250,000
150 kW Generator	1	EA	\$88,000	\$88,000
Electrical & Controls	1	LS	\$150,000	\$150,000
New Electrical Building	1	LS	\$200,000	\$200,000
Water Meter & Vault	1	LS	\$15,000	\$15,000
Coatings	1	LS	\$2,500	\$2,500
18" welded steel pipe to WTP	6	mile	\$1,500,000	\$9,000,000
Mobilization and Permits	1	LS	\$100,000	\$100,000
Total Construction Cost				\$10,243,800
Contingency (15%)				\$1,536,570
Bond and Legal Counsel (5%)				\$512,190
Interim Financing Expenses (3%)				\$307,314
Engineering Services & Construction Management (25%)				\$2,560,950
Materials Testing Lab (3%)				\$307,314
Environmental Report				\$75,000
Property Purchase/Lease Agreement				\$200,000
Easement Acquisition / Right of Way / Water Rights Agreements				\$50,000
Total Non-Construction Costs				\$5,549,338
Total Costs				\$15,793,138

4.9.5 Alternative E: Build a Cofferdam

The estimated construction and non-construction costs for building a cofferdam are shown in **Table 4-11**.

Table 4-11 – Cost Estimate for Building a Cofferdam

Description	Quantity	Unit	Unit Cost	Subtotal
Floating Pump and Motor (200 HP)	1	EA	\$135,000	\$135,000
Floating Pump and Motor (125 HP)	1	EA	\$120,000	\$120,000
Check Valve (10-in)	2	EA	\$9,800	\$19,600
Gate valve (10-in)	2	EA	\$4,200	\$8,400
Expansion joint	2	EA	\$2,650	\$5,300
Misc. pipe and fittings	1	LS	\$200,000	\$200,000
150 kW Generator	1	EA	\$88,000	\$88,000
Electrical & Controls	1	LS	\$150,000	\$150,000
Coatings	1	LS	\$2,500	\$2,500
Steel Structure and Supports	1	LS	\$5,000,000	\$5,000,000
Mobilization and Permits	1	LS	\$115,000	\$115,000
Total Construction Cost				\$5,843,800
Contingency (15%)				\$876,570
Bond and Legal Counsel (5%)				\$292,190
Interim Financing Expenses (3%)				\$175,314
Engineering Services & Construction Management (25%)				\$1,460,950
Materials Testing Lab (3%)				\$175,314
Environmental Report				\$75,000
Easement Acquisition / Right of Way / Water Rights Agreements				\$10,000
Total Non-Construction Costs				\$3,065,338
Total Costs				\$8,909,138

4.9.6 Alternative F: Pump Station Extension with Solar Power

The estimated construction and non-construction costs for replacing and extending the water intake pump station and powering the system using solar panels are shown in **Table 4-12**.

Table 4-12 – Cost Estimate for Pump Station Extension with Solar Power

Description	Quantity	Unit	Unit Cost	Subtotal
Submersible Pump and Motor (200 HP)	1	EA	\$135,000	\$135,000
Submersible Pump and Motor (125 HP)	1	EA	\$120,000	\$120,000
Check Valve (10-in)	2	EA	\$9,800	\$19,600
Gate valve (10-in)	2	EA	\$4,200	\$8,400
Expansion joint	2	EA	\$2,650	\$5,300
Misc. pipe and fittings	1	LS	\$150,000	\$150,000
150 kW Generator	1	EA	\$88,000	\$88,000
Electrical & Controls	1	LS	\$150,000	\$150,000
Coatings	1	LS	\$2,500	\$2,500
Solar Array	325	HP	\$1,790	\$581,750
Mobilization and Permits	1	LS	\$20,000	\$20,000
Total Construction Cost				\$1,280,550
Contingency (15%)				\$192,083
Bond and Legal Counsel (5%)				\$64,028
Interim Financing Expenses (3%)				\$38,417
Engineering Services & Construction Management (25%)				\$320,138
Materials Testing Lab (3%)				\$38,417
Environmental Report				\$75,000
Property Purchase/Lease Agreement				\$100,000
Easement Acquisition / Right of Way / Water Rights Agreements				\$10,000
Total Non-Construction Costs				\$838,083
Total Costs				\$2,118,633

5 Selection of an Alternative

5.1 Life Cycle Cost Analysis

Table 5-1 shows the life cycle cost (LCC) analysis for the four alternatives. The analysis assumes a 20-year planning period and a 1.875% interest rate. The LCC analysis shows that Alternative A, building new groundwater wells, has the lowest net present worth.

Table 5-1 – Life Cycle Cost Analysis

Alt.	Capital Cost	Annual O&M	P.W. O&M P/A	Salvage Value	P.W. Salvage P/F	Net Present Worth
A	\$1,501,950	\$1,253,000	\$20,737,658	\$45,059	\$31,076	\$22,208,532
B	\$1,047,138	\$1,404,000	\$23,236,770	\$31,414	\$21,666	\$24,262,242
C	\$1,140,188	\$1,404,000	\$23,236,770	\$34,206	\$23,591	\$24,353,367
D	\$15,793,138	\$1,421,150	\$23,520,609	\$473,794	\$326,766	\$38,986,981
E	\$8,909,138	\$1,425,863	\$23,598,603	\$267,274	\$184,334	\$32,323,407
F	\$2,118,633	\$1,346,190	\$22,279,991	\$63,559	\$43,835	\$24,354,789

5.2 Non-Monetary Factors

Table 5-2 compares the alternatives using the following non-monetary factors:

- Land and permitting;
- Community and traffic;
- Constructability, elements, and schedule;
- Water source reliability;
- Environmental impact;
- Utilities; and
- Operations and maintenance.

In the non-monetary analysis, the most desirable option is Alternative C, replacing and extending the raw water intake pump station.

TABLE 5-2 - Non-Monetary Evaluation of Water Supply Alternatives

Criteria	Ranking Weight	Alternative A Groundwater Wells		Alternative B Pump Replacement		Alternative C Pump Extension		Alternative D New Pump Station		Alternative E Cofferdam		Alternative F Pump Extension + Solar Power	
		Unweighted Score	Weighted Score	Unweighted Score	Weighted Score	Unweighted Score	Weighted Score	Unweighted Score	Weighted Score	Unweighted Score	Weighted Score	Unweighted Score	Weighted Score
Land and Permitting	5%	Advantages: - Expected to use existing land Disadvantages: - New land and encroachments possibly required	3 0.15	Advantages: - No new land or encroachments required Disadvantages: - none	5 0.25	Advantages: - No new land or encroachments required Disadvantages: - MID Agreement	4 0.2	Advantages: - None Disadvantages: - MID Agreement - New land - ROW permits for pipeline to WTP	1 0.05	Advantages: - No new land or encroachments required Disadvantages: - MID Agreement (brand new)	2 0.1	Advantages: - No encroachments required Disadvantages: - MID Agreement - New land for solar panels	1 0.05
Community and Traffic	5%	Advantages: - Removes dependence on Lake McClure Disadvantages: - Traffic impacted	3 0.15	Advantages: - Minimal community disturbances Disadvantages: - none	5 0.25	Advantages: - Minimal community disturbances Disadvantages: - none	5 0.25	Advantages: - None Disadvantages: - Traffic impacted	2 0.1	Advantages: - Minimal community disturbances Disadvantages: - none	5 0.25	Advantages: - Minimal community disturbances Disadvantages: - none	5 0.25
Constructability, Elements, and Schedule	50%	Advantages: - Does not disrupt current system Disadvantages: - Difficult to find adequate supply	2 1	Advantages: - Simplest design and construction Disadvantages: - Dependent on water levels	4 2	Advantages: - Improves current system Disadvantages: - Dependent on water levels	4 2	Advantages: - Does not disrupt current system Disadvantages: - Large project - Dependent on water levels	3 1.5	Advantages: - Does not disrupt current system Disadvantages: - Highly difficult due to water level	1 0.5	Advantages: - Improves current system Disadvantages: - Dependent on water levels - Hills make installing solar difficult	2 1
Water Source Reliability	15%	Advantages: - none Disadvantages: - Unlikely to provide adequate water supply	1 0.15	Advantages: - Water supplied in normal conditions Disadvantages: - Barge necessary in drought conditions	3 0.45	Advantages: - Water supplied in drought conditions Disadvantages: - none	4 0.6	Advantages: - Water supplied in extreme drought conditions Disadvantages: - none	5 0.75	Advantages: - Water supplied in extreme drought conditions Disadvantages: - none	5 0.75	Advantages: - Water supplied in drought conditions Disadvantages: - none	4 0.6
Environmental Impact	5%	Advantages: - Reduces impact on Lake McClure Disadvantages: - New construction - Underground water supply impacted	2 0.1	Advantages: - Minimal change to current setup Disadvantages: - None	4 0.2	Advantages: - No new land impacted Disadvantages: - Lakebed disturbance	3 0.15	Advantages: - none Disadvantages: - New construction - Lakebed disturbance	1 0.05	Advantages: - none Disadvantages: - New construction - Lakebed disturbance	1 0.05	Advantages: - Solar power Disadvantages: - Lakebed disturbance - New land required	4 0.2
Utilities	5%	Advantages: - Reduces energy use Disadvantages: - None	4 0.2	Advantages: - Reduces energy use Disadvantages: - Uses more energy than wells	3 0.15	Advantages: - Reduces energy use Disadvantages: - Uses more energy than wells	3 0.15	Advantages: - none Disadvantages: - Uses the most energy	2 0.1	Advantages: - Reduces energy use Disadvantages: - Uses more energy than wells	3 0.15	Advantages: - Self-sufficient energy source Disadvantages: - None	5 0.25
Operations and Maintenance	15%	Advantages: - Wells require less O&M than surface intake pumps Disadvantages: - none	5 0.75	Advantages: - No change in O&M Disadvantages: - Barge still necessary	3 0.45	Advantages: - Removes barge from service (except extreme drought) Disadvantages: - none	4 0.6	Advantages: - Removes barge from service Disadvantages: - Long pipeline to WTP	3 0.45	Advantages: - none Disadvantages: - May need frequent, expensive repairs	2 0.3	Advantages: - Removes barge from service (except extreme drought) Disadvantages: - Solar panel maintenance	3 0.45
Final Score	100%		2.50		3.75		3.95		3.00		2.10		2.80

Note:
1. Unweighted Score: Least Desirable = 1, Most Desirable = 5.

6 Proposed Project

6.1 Preliminary Project Design

The proposed project, Alternative C, is a drinking water project that will rehabilitate the raw water intake pump station and extend the pumps deeper into Lake McClure. This will correct the issues caused by failing equipment at the existing pump station and help the District to maintain water supply in drought conditions. A map showing the project location is in **Figure 6-1**. The layout of the proposed system is in **Figure 6-2**.

The project will replace 420 lf of pipeline, one 200 HP submersible pump and motor, one 125 HP submersible pump and motor, check and gate valves, pipe fittings, and electrical and controls for the system. The project will also add 160 lf of pipeline and fittings to extend the system's depth to 635 feet ASL. A detailed list of expected components and a diagram of items to be replaced in the control vault are in **Appendix C**, which is from the Pump #2 Renovation Project completed in the 1990's. During the project design phase, options to update and automate the system will be researched and implemented.



Legend

— County Routes

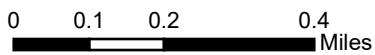
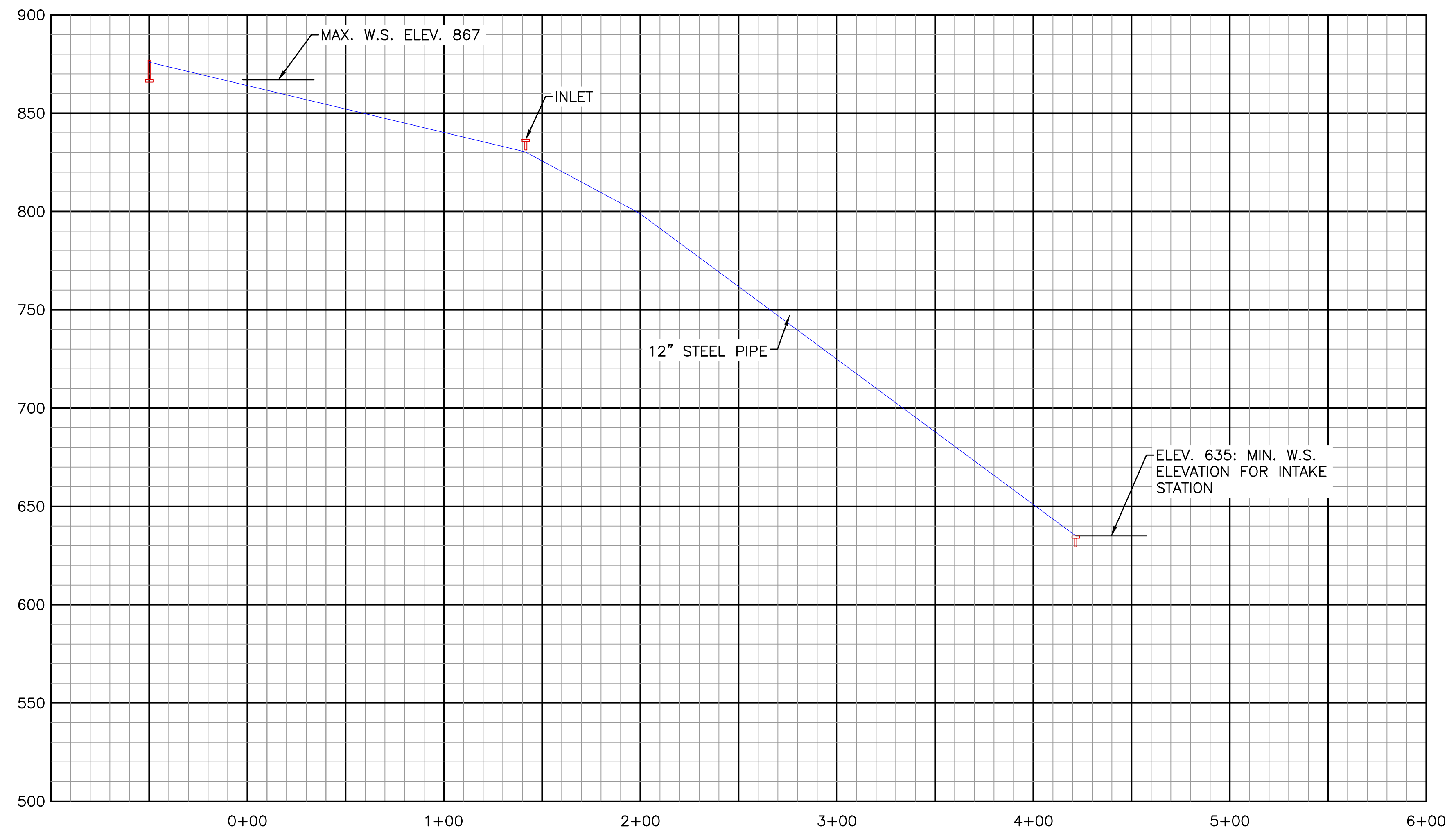
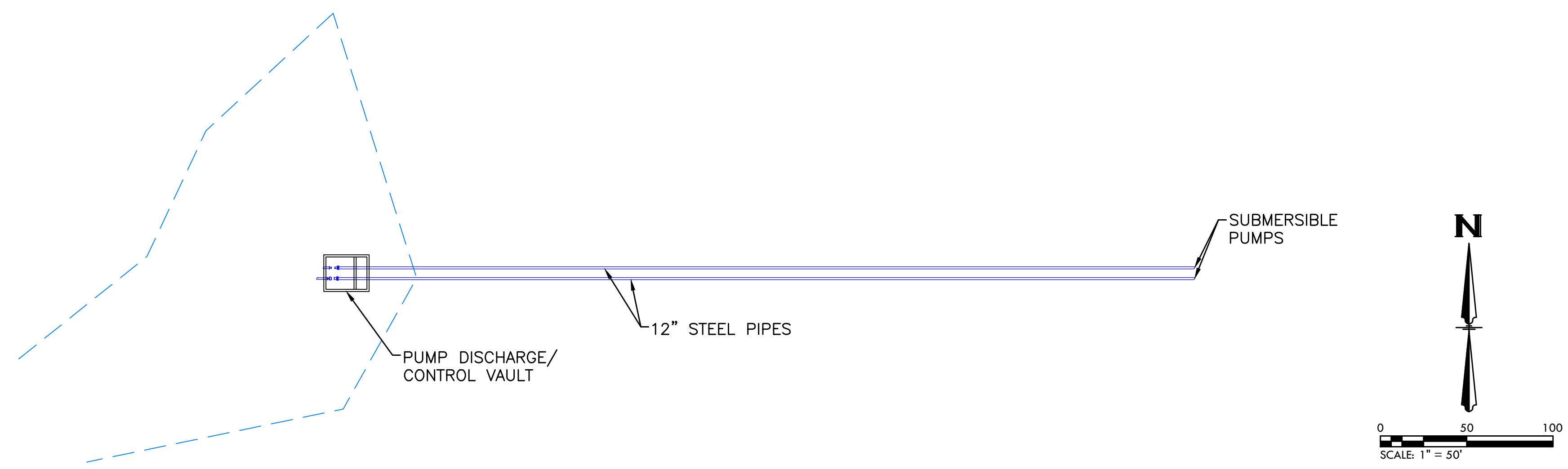


Figure 6-1

Project Location

Lake Don Pedro
Community Services District

BLACK
WATER
CONSULTING
ENGINEERS, INC.



- LEGEND**
- LAND
 - INTAKE STATION PIPING
 - CONNECT TO WTP

FIGURE 6-2

PROPOSED NEW SYSTEM
LAKE DON PEDRO COMMUNITY
SERVICES DISTRICT

6.1.1 Water Supply

The water supply for the proposed project will remain unchanged; the sources include four groundwater wells and surface water from Lake McClure. This project improves upon the raw water intake pump station by replacing its components and extending the pumps and pipes deeper into the lake.

6.1.2 Treatment

No changes to the water treatment plant are proposed in this PER.

6.1.3 Storage

No additional water storage will be added to the system in the proposed project.

6.1.4 Pumping Station

The recommended alternative is a pump station rehabilitation project. The system has two submersible pumps and two valves on the land surface that need to be replaced for the system to function properly. The electrical and controls for each of the pumps will also be replaced.

The pump criteria are shown in **Table 6-1**.

Table 6-1 – Pump Criteria

Name	Pump #1	Pump #2
Power	125 HP	200 HP
Speed	Variable	Variable
Voltage	480 V	480 V
Type of Pump	Submersible	Submersible
Min. Pump Flow	1,400 gpm	1,400 gpm

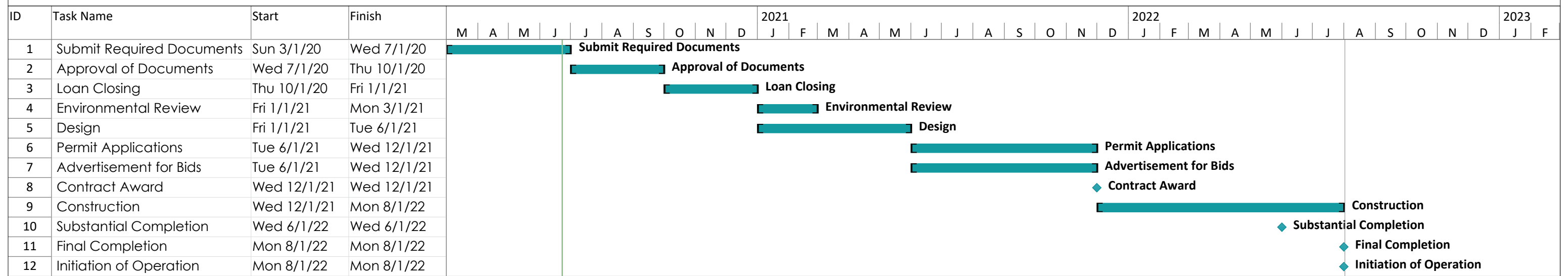
6.1.5 Distribution Layout

The raw water intake pump station has approximately 420 LF of pipeline that runs from the valve structures to the submerged pumps. The entire pipeline will be replaced, and approximately 160 LF will be added to extend the intake station’s piping to an elevation of 635 feet ASL. The pipeline will have a total length of 580 LF. The pipes will be 12” in diameter and made of high strength, low alloy (HSLA) steel.

6.2 Project Schedule

The project schedule is outlined in **Table 6-2**.

Table 6-2



Project: 210_20A Project Timeline
Date: Tue 6/23/20

Task █ Milestone ◆

6.3 Permit Requirements

The following permits will be obtained for the project:

- Mariposa County Air Pollution Control District ATC permit
- Lake and Streambed Alteration Agreement with the California Department of Fish and Wildlife
- MID agreement to extend the pipe into Lake McClure and construction approval
- U.S. Army Corps of Engineers, Sacramento District, permit to construct in Lake McClure in compliance with Section 404 of the Clean Water Act

6.4 Sustainability Considerations

This project extends the usability of the raw water intake pump station when water levels drop and prepares the District for future droughts. Having two functional pumps will add redundancy to the system. Through this project, the District's reliance on groundwater as an alternative water source will be reduced, thus improving the sustainability of the regional groundwater supply. The use of electric pump motors for this alternative is also sustainably preferred to fossil fuel-powered generators that would otherwise be used to pump water from Lake McClure to the District's water treatment plant.

6.5 Total Project Cost Estimate

The cost estimate for the recommended project is outlined in **Table 6-3**.

Table 6-3 – Project Cost Estimate

Item		Amount
Easement Acquisition / Right of Way / Water Rights Agreements		\$10,000
Bond Counsel (1%)		\$6,988
Legal Counsel (4%)		\$27,952
Interim Financing Expense (3%)		\$20,964
Environmental Report Services		\$75,000
Engineering Services	Subtotal	
Exhibit A		
- A1.01 Study and Report Phase (5%)	\$34,940	
- A1.02/3 Design Phase (10%)	\$69,880	
- A1.04 Bidding/Negotiating Phase (1%)	\$6,988	
- A1.05 Construction Phase (3%)	\$20,964	
- A1.06 Post Construction Phase (1%)	\$6,988	
Exhibit D		
- D1.01 Resident Project Representative (5%)	\$34,940	
Total - Engineering Services		\$174,700
Owner Direct Procurement Agreements	Subtotal	
- Materials Testing Lab (construction phase) (3%)	\$20,964.00	
- Electrical Power Service Fee for New Construction	N/A	
Total - Direct Procurement		\$20,964
Construction Contract		\$698,800
Contingency (15%)		\$104,820
Total Project Cost Estimate:		\$1,140,188

6.6 Annual Operating Budget

The impact of the project on the District’s annual operating budget is analyzed based on the District’s income, annual O&M costs, debt repayments, and reserves.

6.6.1 Income

The District’s income is derived from water service charges and connection fees. Based on the District’s Annual Budget, the expected income for the 2019-20 fiscal year is \$1,550,500. Because the population is not projected to grow in the next 20 years, the District’s income is not projected to change.

6.6.2 Annual O&M Costs

The projected O&M expenses are based on the District’s Annual Budget (**Table 6-4**). Energy usage will be reduced by approximately 15% and water purchase price will be reduced by approximately 11%.

Table 6-4 – Annual O&M Expenses

Item	Cost
Personnel	\$705,000
Administration	\$55,000
Office Supplies	\$3,000
Accounting & Auditing	\$9,000
Legal Fees	\$10,000
Water Treatment	\$4,500
Water Purchase	\$63,190
Chemicals	\$21,000
Repair & Maintenance	\$143,000
Business Insurance	\$49,000
Professional Services	\$112,000
Energy	\$147,000
Monitoring & Testing	\$16,000
Utilities	\$4,000
Supplies	\$1,500
Interest	\$40,500
Miscellaneous	\$12,500
Total	\$1,396,190

6.6.3 Debt Repayments

Table 6-5 shows the assumed factors used to calculate the annual payment amount of \$40,772.

Table 6-5 – Annual Debt Repayment

Number of Years	40
Interest Rate	1.875%
Initial Loan	\$1,140,188.00
Annual Payments	\$40,772.00

6.6.4 Reserves

Two types of reserves must be included in the District’s annual budget: debt service reserve and short-lived asset reserve.

6.6.4.1 Debt Service Reserve

The debt service reserve is required to be 10% of the total annual debt service for all the District’s loans. The District currently pays \$59,503 semi-annually for a loan that will reach final maturity in 2026. Combined, the loans would have an annual payment amount of \$159,778. Based on the total annual loan payment, the required debt service reserve is \$15,978. If a loan payment is made from reserves, the loan debt service reserve must be replenished back to its original value.

6.6.4.2 Short-lived Asset Reserve

Table 6-6 shows the short-lived assets for the water system.

Table 6-6 – Short-Lived Assets for Water System

Infrastructure	Useful Life (years)	Replacement Cost	Annual Reserve
Chemical Feed Pumps	5	\$10,000	\$2,000
Altitude Valves	15	\$200,000	\$13,333
Field & Process Instrumentation	10	\$50,000	\$5,000
Granular Filter Media	5	\$10,000	\$2,000
Air Compressors & Control Units	15	\$35,000	\$2,333
Pump Controls	15	\$20,000	\$1,333
Pressure Transducers	5	\$3,000	\$600
Flow Meters	15	\$15,000	\$1,000
SCADA Systems	15	\$80,000	\$5,333
Raw Water Intake Pumps & Motors	15	\$160,000	\$10,667
Booster Pumps & Motors	15	\$200,000	\$13,333
Production Well Pumps & Motors	15	\$125,000	\$8,333
Intake/Well Screens	15	\$45,000	\$3,000
Pressure Reducing Valves	15	\$40,000	\$2,667
Water Level Sensors	15	\$85,000	\$5,667
		Total	\$76,600

7 Conclusions and Recommendations

The District’s water system is at risk of losing water supply due to drought, equipment failure, or natural disaster. By replacing and extending the surface water intake at the Lake McClure raw water intake pump station, significant water loss in the system will be mitigated and the reliability of the pumps will be restored. **Table 7-1** shows the construction and non-construction costs associated with the project. The total estimated cost of the project is \$1,140,188. If this amount is paid for over a 40-year repayment period with an interest rate of 1.875%, it is expected that payments of \$40,772 will be made by the District annually.

Table 7-1 – Construction and Non-Construction Costs

Construction Total	\$698,800
Non-Construction Total	\$441,388
Total Project Cost	\$1,140,188

When the expected debt repayment amount of \$40,772 is added to the O&M budget, the annual expenses increase to \$1,436,962. This amount is \$113,538 less than the District’s expected annual income. Service rates are not required to increase to repay the debt incurred through this project.

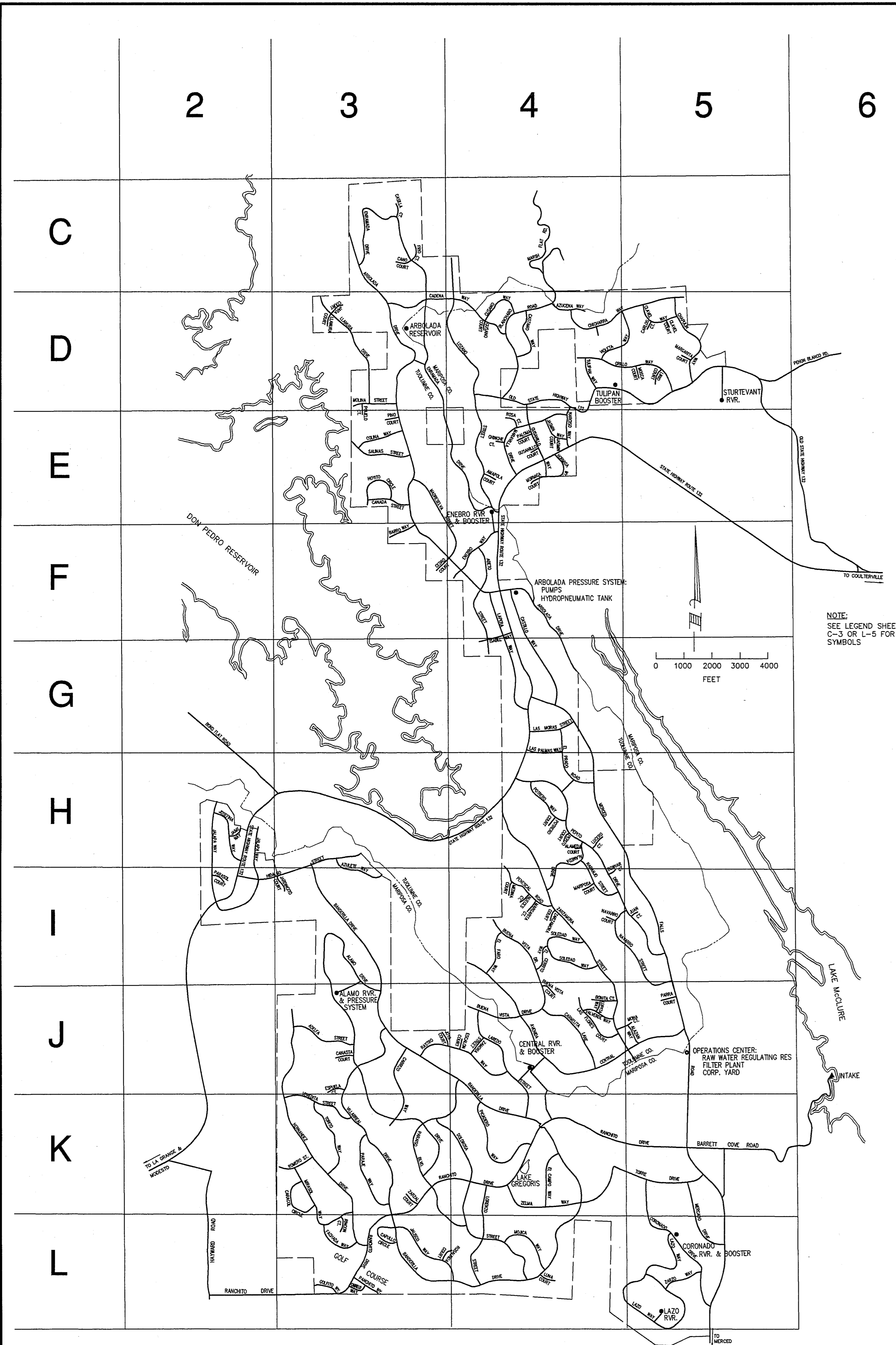
This PER recommends that the LDPCSD obtain funding from the USDA to proceed with implementing Alternative C – replacing and extending the raw water intake pump station into Lake McClure.

Appendix A
Water Distribution Map

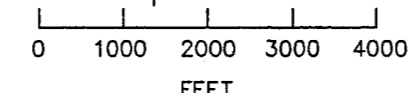
WATER SYSTEM MAP

LAKE DON PEDRO COMMUNITY SERVICES DISTRICT

9751 MERCED FALLS ROAD, LA GRANGE, CALIFORNIA



NOTE:
SEE LEGEND SHEETS
C-3 OR L-5 FOR
SYMBOLS



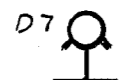
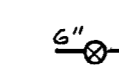
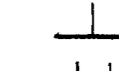
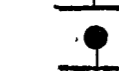

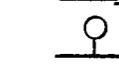
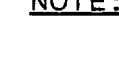

STREET INDEX

- A**
ABETO STREET F-4, G-4
ADELPHA STREET J-3
ALAMEDA COURT H-4
ALAMEDA DRIVE H-4, I-4
ALAMO DRIVE I-3, J-3, K-3
ALAZAN WAY J-5
AMAZOLA COURT E-4
ARBOLADA DRIVE C-3, D-3, E-3, F-3, F-4, G-4
AVENIDA CENTRAL I-4, J-4, J-5
AZUCENA WAY D-4
AZULETTE WAY H-3, I-3
- B**
BANDERILLA DRIVE I-3, J-3, J-4, K-4, L-3, L-4
BARRETT COVE ROAD K-5, K-6
BARRO WAY F-3
BLANCHARD ROAD C-4, D-4
BOLIVAR COURT I-4
BOND FLAT ROAD H-2, H-3
BONITA COURT J-4
BUENA VISTA COURT J-4
BUENA VISTA DRIVE I-4, J-4
- C**
CADENA WAY D-3, D-4
CANADA STREET E-3
CANASTA COURT J-3
CANO COURT C-3
CAPULLO CIRCLE L-3
CARACOL CIRCLE K-3, L-3
CARLOS COURT D-5
CARMELITA LANE J-4
CARRILLO WAY L-3
CARRIZO WAY J-3, K-3
CASILLA COURT C-3
CASTANO WAY D-4
CASTILLO WAY F-4, G-4
CEDRO COURT F-3, F-4
CHAPULIN WAY D-5
CHICHARRA COURT D-4
CHICHARRA WAY D-4, D-5
CHINCHIC COURT E-4
CLAYEL COURT D-5
CLAYEL WAY D-5
COLINA WAY E-3
CORONADO DRIVE K-5, L-5
- D**
DOLOROSA STREET K-3, K-4, L-4
- E**
EL CAMPO WAY K-4
EL CERRITO WAY I-4
EL FARO WAY I-4
EL NARANJO STREET H-4, I-4
EL PRADO ROAD G-4, H-4
ENEBRO WAY F-4
ENRAMADA DRIVE C-3, D-3, E-4
ESCALON COURT J-4
ESPUELA COURT J-3
- F**
FACHADA WAY L-3
FRIO COURT C-3
- G**
GAZA WAY L-3
GOLFITO WAY L-3
GRANITE SPRINGS ROAD (OLD STATE HWY) D-4, D-5
GRILLO DRIVE D-4, D-5
GUSANILLO COURT E-4
GUSANILLO WAY E-4
GUSANO COURT D-4
GUSANO WAY D-4
- H**
HAYWARD ROAD K-2, L-2 (INDEX ONLY)
HERNANDEZ DRIVE K-3, L-3, J-3
HILDALGO STREET H-3, I-2, I-3
HIGHWAY 132 E-4, F-4, G-4, H-4, H-3, H-2, I-2
HORMIGA COURT E-4
HORMIGA WAY E-4
HOYITO CIRCLE E-3
- I**
ISABEL WAY G-4, F-4
- J**
JAIME WAY H-2
JALAPA WAY H-2, I-2
JALISCO WAY L-3
JARA COURT D-3
JARDINCITO COURT I-3
JASMIN COURT E-4
JASMIN WAY E-4
JOSEFINA WAY H-2
JOYA COURT J-3
JUAN COURT I-5
- L**
LADERA WAY F-4, G-4
LAREDO STREET J-4, K-4
LAS FLORES COURT J-4
LAS MORAS STREET G-4
LAS PALMAS WAY G-4, H-4
LAZO WAY L-5, L-4
LIRIO COURT D-5
LLANURA COURT D-3
LLANURA DRIVE D-3
LORENZO STREET K-4, L-4
LOZANO STREET C-4, D-4, E-4
LUCERO COURT H-4
LUNA COURT L-4
LUPITA WAY J-4
- M**
MADRESELVA STREET E-3, F-4
MARAVILLA DRIVE E-4
MARGARITA COURT D-5
MARIPOSA COURT I-4
MARSH FLAT ROAD C-4
MEDINA COURT I-4
- N**
NARANJO STREET H-4, I-4
NARCISO WAY E-4
NAVARRO COURT I-4
NAVARRO STREET I-4, I-5, J-5
NUECES COURT I-4
- O**
OLD STATE HIGHWAY 132 D-4, D-5
- P**
PALOMA COURT E-4
PANCHITO WAY L-3
PARAISO BOULEVARD J-4, K-3, K-4, L-3, L-4
PARAJE WAY K-3
PARASOL COURT I-2
PARRA COURT J-5
PENESCAL ROAD H-4, I-4
PEPITO COURT H-4
PEPITO DRIVE H-4, I-4, I-5
PICADERO WAY K-4
PINO COURT E-3
POTRERO WAY H-4
POZUELO COURT D-3, E-3
- R**
RANCHITO DRIVE K-3, K-4, K-5, L-3
RASTRO WAY J-3, J-4
RINCON COURT L-3
ROMERO STREET K-3
ROSA COURT E-4
ROSALINDA COURT L-3
- S**
SALINAS STREET E-3
SOLEDAO WAY I-4
STATE HIGHWAY ROUTE 132 E-4, F-4, G-4, H-3, H-2, I-2
STONY COURT I-4
- T**
TORITO WAY K-3
TORRE DRIVE K-4, K-5
TULIPAN WAY D-4
- V**
VALVERDE WAY J-4
VEREDITA STREET K-3
VILLARREAL DRIVE J-3, K-3
VIOLETA WAY D-4, D-5
- Z**
ZAMORA STREET J-4
ZARZAL COURT K-3
ZARZAMORA COURT I-4
ZARZAMORA STREET H-4, I-4, J-4, J-5
ZARZO WAY L-5
ZELMA WAY K-4
- MERCADO DRIVE** K-5, L-5
MERCED FALLS ROAD G-4, H-4, K-5, J-5, L-5
MIRASOL WAY K-3, L-3
MOJICA WAY L-4
MOLINA STREET D-3
MONA COURT J-4, J-5
MOSCA COURT D-5


DATE: 4/74		D.P.	G.R.B.	G.R.B.	R.P.P.
8/06	GENERAL - UPDATE				
10/94	GENERAL - UPDATE				
12/98	ADD SERVICES				
03/01	REVISION				
03/01	REVISION				
DWG.# D279A1	DATE: 4/74	CHECKED: G.R.B.			
DRAWN: D.F.	RECOMM'D:	APP'D:			
SCALE: 1" = 2250'					
LOCATION	RANGE	SECTION	COUNTY		
TWP. 25	14E	15E	MARIPOSA & TUOLUMNE		
35	14E	15E	LAKE DON PEDRO, CALIFORNIA		
LAKE DON PEDRO COMMUNITY SERVICES DISTRICT WATER DISTRIBUTION SYSTEM					

Binkley Associates
7248 SHAW BLVD. SUITE 200, LA GRANGE, CALIFORNIA 94030 • (415) 297-5925

LEGEND

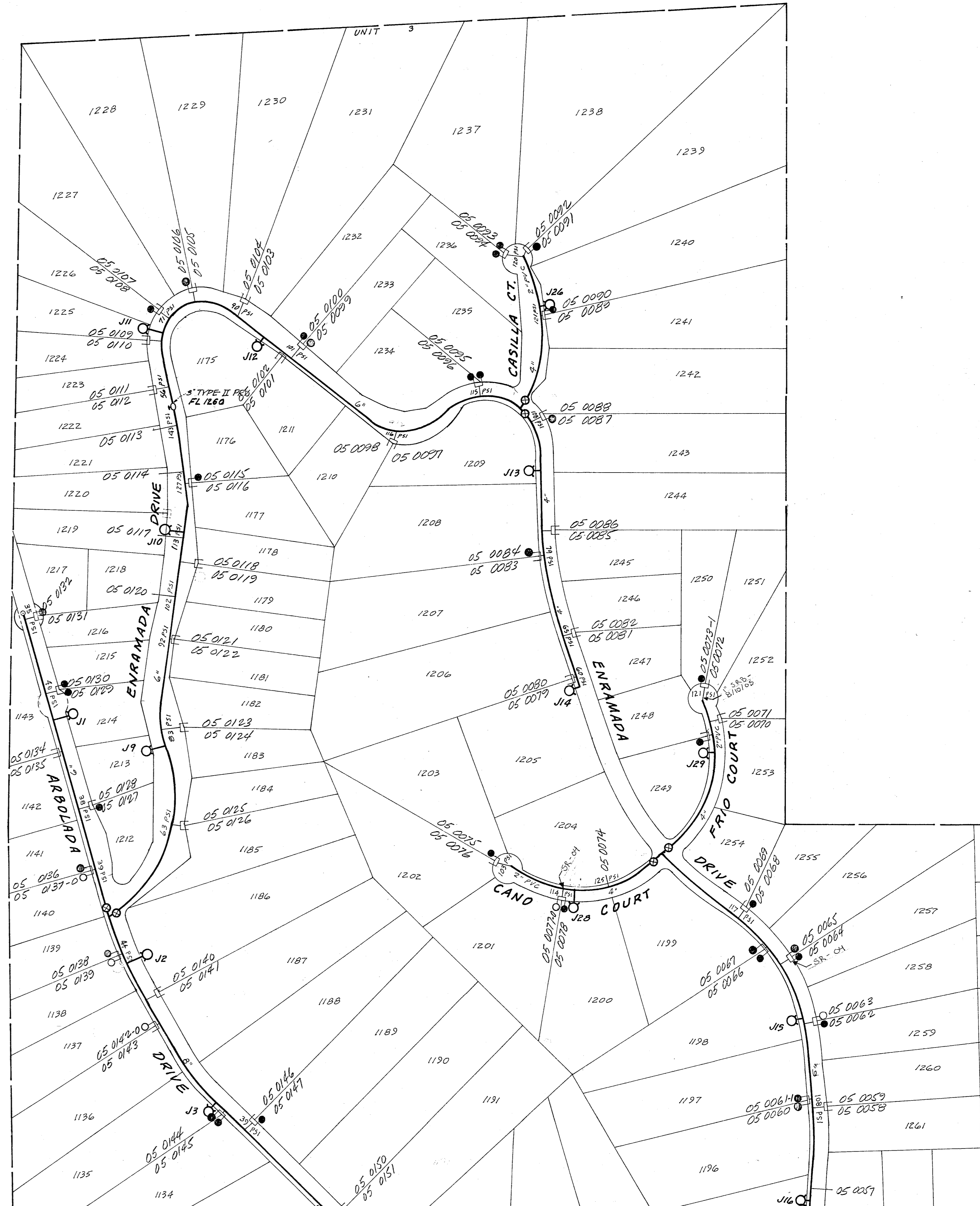
-  FIRE HYDRANT AND NUMBER: DRESSER #300 "TRAFFIC" DRY BARREL W/4" DRESSER #450 F X ACP BUTTERFLY VALVE AND LATERAL (6" F X ACP BFV AND LATERAL ON 6" AND LARGER MAINS).
-  LINE SIZE ACP END DRESSER 450 BUTTERFLY VALVE.
-  SINGLE SERVICE - 3/4" PE PIPE.
-  DUAL SERVICE - 1" PE PIPE WITH FORD #2 CM BRANCH.
-  ACTIVE SERVICE.
-  AUTOMATIC AIR RELEASE VALVE.
-  2" BLOW-OFF PIPE AND VALVE AT END OF MAIN.
-  METER REMOVED

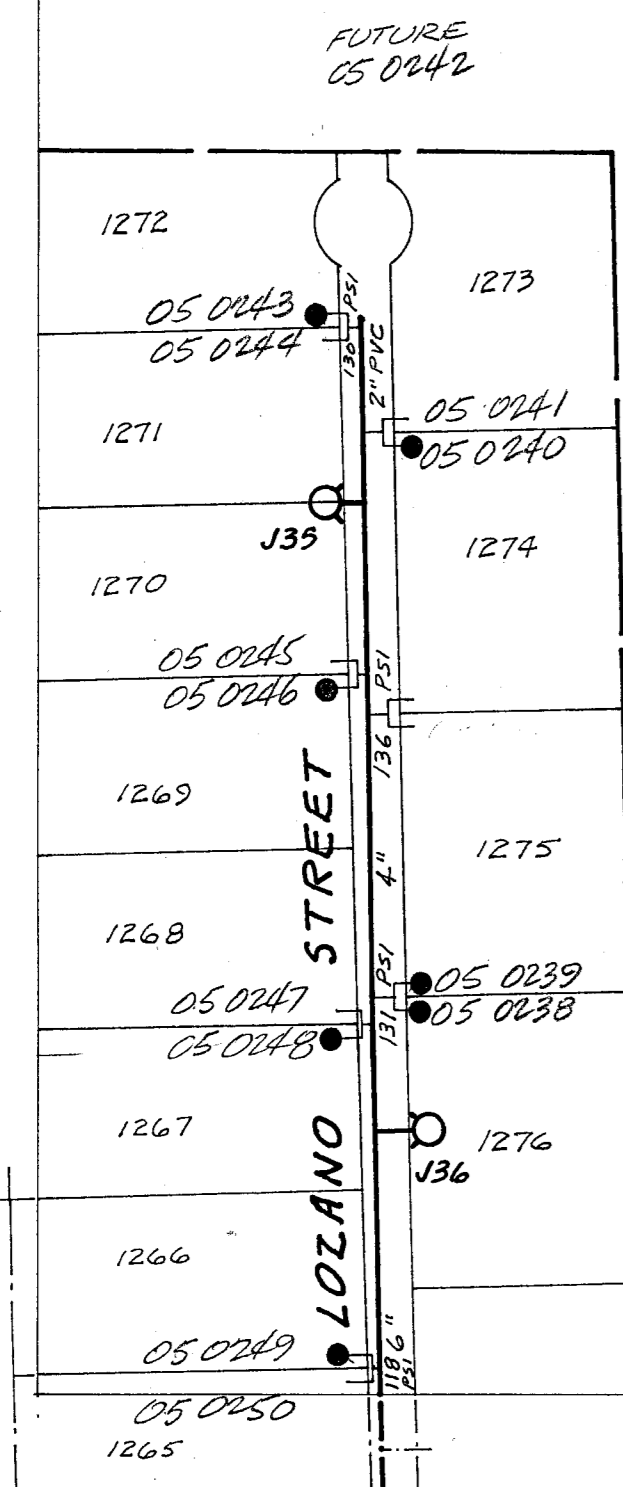
NOTE:

1. ALL TREATED WATER MAINS ARE CLASS 150 ACP UNLESS OTHERWISE NOTED. 2" AND 4" PVC PIPE IS CLASS 160 SDR 26 RUBBER RING.
2. ALL SERVICES ARE HIGH DENSITY POLYETHYLENE (PE) IRON PIPE SIZE WITH PACK JOINT CONNECTIONS USING INSERT STIFFENERS.
3. CORP STOPS ARE DRESSER STYLE 193 GALVANIZED QUIKTAP ON ACP MAINS. JM "HEAVY TAPPED COUPLING" IS USED ON 4" PVC, AND DRESSER STYLE 194 GALVANIZED SADDLE IS USED ON 2" PVC WITH FORD PACK JOINT CORP STOP.
4. 1981 KASSABAUM EXTENSION (INDICATED BY  ON SHEETS J5, K4, K5) NOT CHECKED OR APPROVED BY BINKLEY ASSOCIATES, AND SPECIFICATIONS OF INSTALLED VALVES, HYDRANTS, AND SERVICE MATERIALS ARE NOT KNOWN.

- SRB - # SERVICE REPAIR BAND - DATE
- CIR - # - # CUT IN MAIN REPAIR - DATE - LENGTH OF CUT IN
- SR - # SERVICE ENTIRELY REPLACED BETWEEN TAPPING SADDLE AND METER - DATE
- MRB - # MAIN REPAIR BAND - DATE (STAINLESS STEEL UNLESS OTHERWISE NOTED)

RESERVE
05 0133





C-4

**LAKE DON PEDRO
 COMMUNITY SERVICES DISTRICT
 WATER DISTRIBUTION SYSTEM**

INDEX MAP REF. **D 275 41**

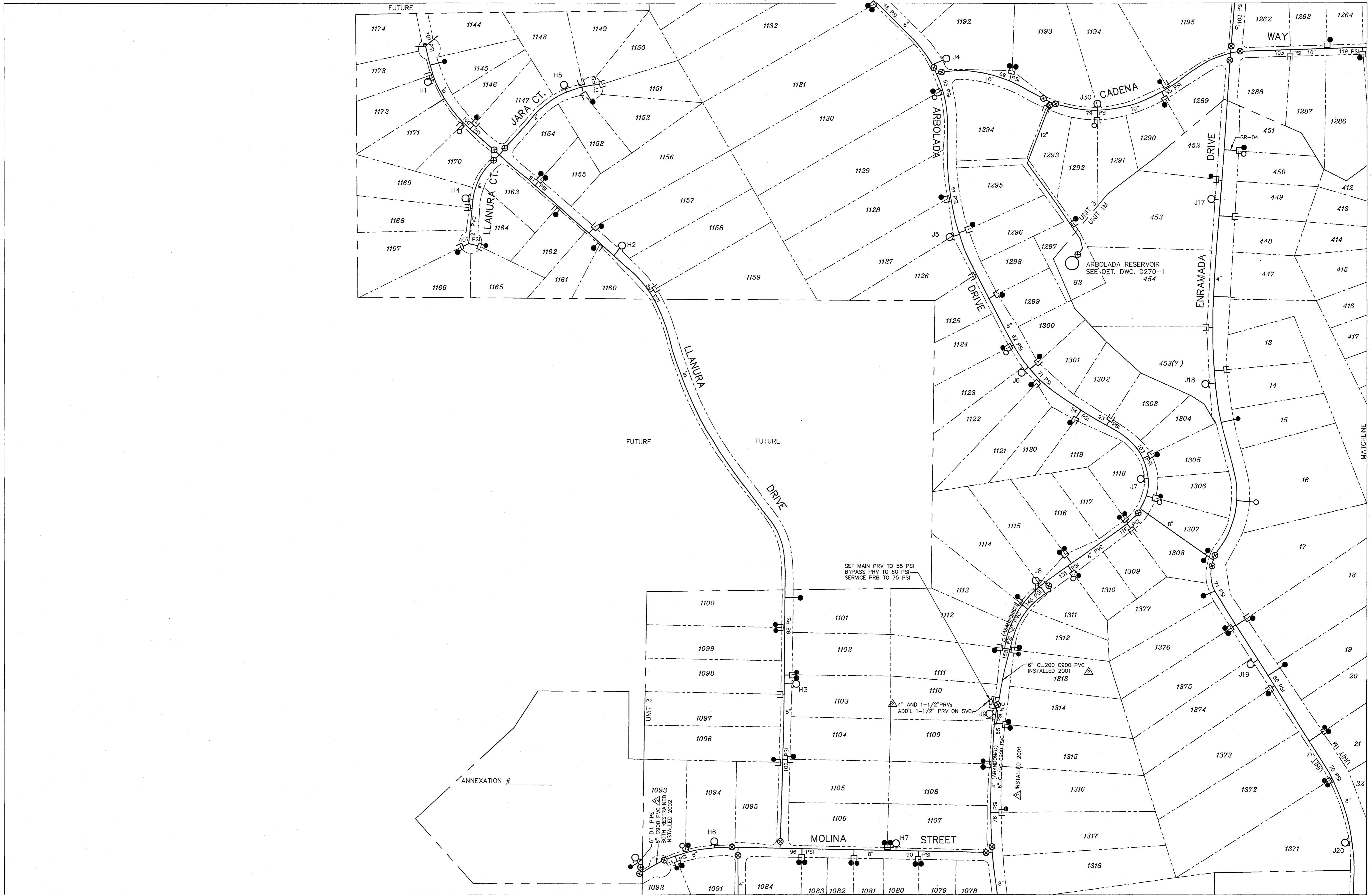
LOCATION
 TWP. RANGE **25°** SECTION **26, 29** COUNTY **FRANCISCO**

NO. **D 275 41** DATE **3/74**
 DRAWN **JF** CHECKED **GB**
 RECORD **D** APP'D. **D**

806 GENERAL-UPDATE
 1094 GENERAL-UPDATE
 / 277 400 P.M. 10/95
 NO DATE REVISION REVISIONS

DJP
 GB
 2/83
 AFFE

Blinkley Associates
 718 BROADWAY • SUITE 201 • OAKLAND, CA 94612

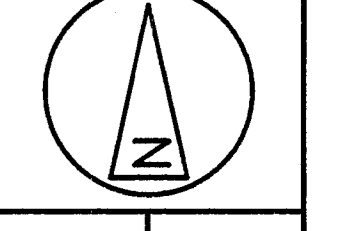


Binkley Associates
 CONSULTING ENGINEERS
 1746 SHAWAN DRIVE • SAN JOSE • CALIFORNIA 95128 • (408) 257-9922

D.P.	DATE	DESCRIPTION
8/06	GENERAL-UPDATE	
2/03	ARBOLADA INTERIE	
10/94	MOLINA EXTENSION	
10/94	GENERAL-UPDATE	
1	15/77	ADD F.H.NOS.
		REVISION

DWG.# D279A4	DATE: 3/74
DRAWN: DF	CHECKED: GRB
RECOMD:	APP'D:

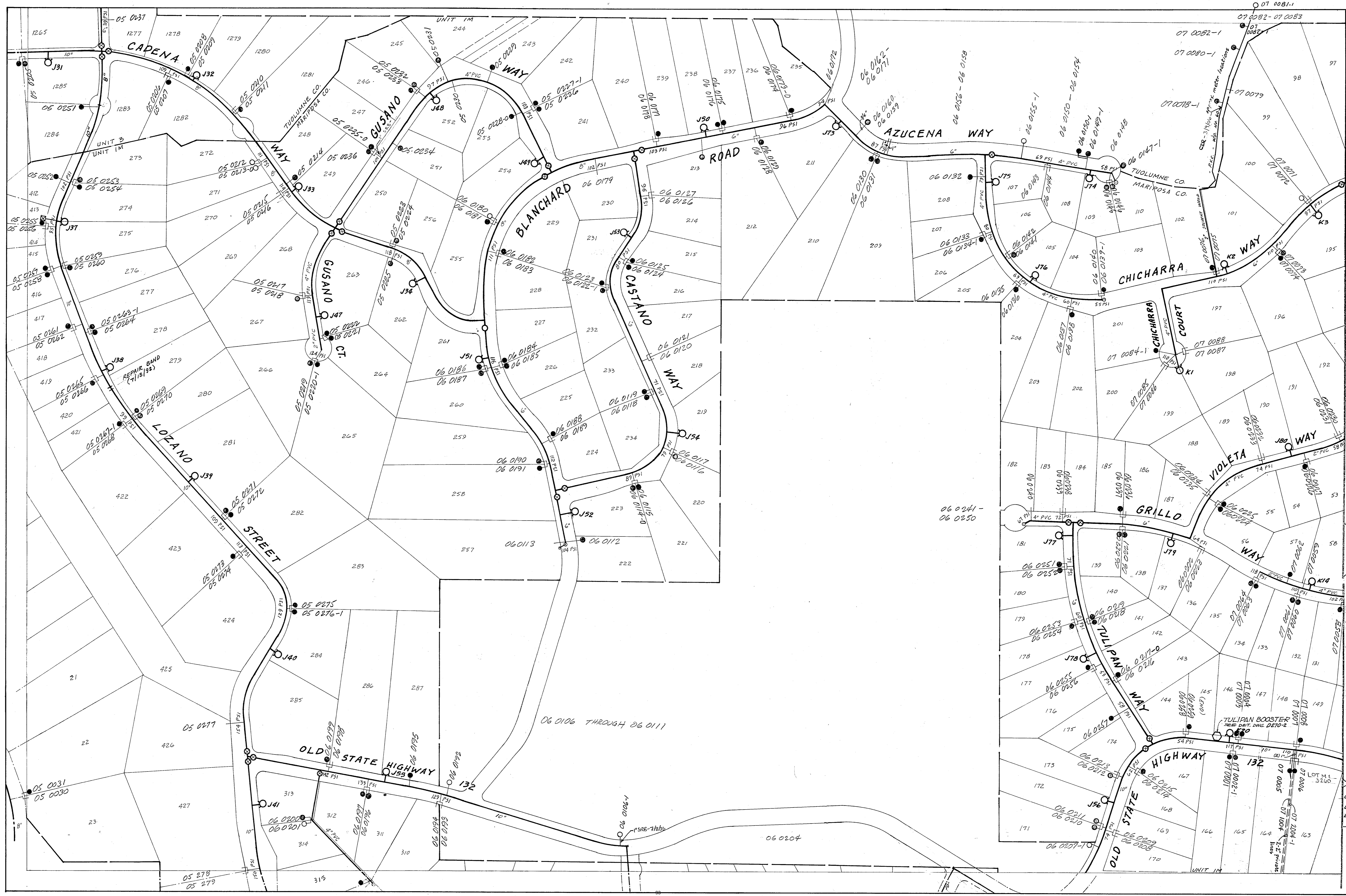
LOCATION	
TWP. 25	COUNTY TUOLUMNE
RANGE 15E	SECTION 32
INDEX MAP REF. D279 A1	MARIPOSA



**LAKE DON PEDRO
 COMMUNITY SERVICES DISTRICT
 WATER DISTRIBUTION SYSTEM**

C3	C4
E3	E4

D-3



D-4

**LAKE DON PEDRO
COMMUNITY SERVICES DISTRICT
WATER DISTRIBUTION SYSTEM**

INDEX MAP REF. D-279-A1

NO. 0270-A5	DATE 3/74	80% GENERAL UPDATE	DIP
DRWN BY	CHECKED GAB	100% GENERAL UPDATE	GBR
RECORD 100	APP'D.	1/277	REVISION
		NO DATE	REVISION
			APP'D.

SCALE 1" = 400'

Binkley Associates
10000 1st St., Corona, CA 92625



D-5

**LAKE DON PEDRO
COMMUNITY SERVICES DISTRICT
WATER DISTRIBUTION SYSTEM**

INDEX MAP REF. D.272.41

LOCATION: TWP. 25° N, R. 122° W, S. 2725.34 MAR/2014

NO. D.272.41 DATE 3/17/14

805 GENERAL-UPDATE	DJP
1094 GENERAL-UPDATE	GAB
627 ADD E. L. 10/25	GAB
NO DATE REVISION	AFS

SCALE: 1" = 100'

Blainey Associates
1115 S. HANCOCK ST., SUITE 100, COVINGTON, LA 70038

10" x 7 1/2" S.S.
REPAIR BAND
(3/2" x 1/4")
34" PEPP
LOT L

STURTEVANT RESERVOIR
SEE DET. DWG. D.270-5

LOT 3310
BLAINE STURTEVANT

07-0159 INSTALLED

07-0181

07-0182

07-0180

07-0179

07-0187

07-0188

07-0189

07-0190

07-0191

07-0192

07-0193

07-0194

07-0195

07-0196

07-0197

07-0198

07-0199

07-0200

07-0201

07-0202

07-0203

07-0204

07-0205

07-0206

07-0207

07-0208

07-0209

07-0210

07-0211

07-0212

07-0213

07-0214

07-0215

07-0216

07-0217

07-0218

07-0219

07-0220

07-0221

07-0222

07-0223

07-0224

07-0225

07-0226

07-0227

07-0228

07-0229

07-0230

07-0231

07-0232

07-0233

07-0234

07-0235

07-0236

07-0237

07-0238

07-0239

07-0240

07-0241

07-0242

07-0243

07-0244

07-0245

07-0246

07-0247

07-0248

07-0249

07-0250

07-0251

07-0252

07-0253

07-0254

07-0255

07-0256

07-0257

07-0258

07-0259

07-0260

07-0261

07-0262

07-0263

07-0264

07-0265

07-0266

07-0267

07-0268

07-0269

07-0270

07-0271

07-0272

07-0273

07-0274

07-0275

07-0276

07-0277

07-0278

07-0279

07-0280

07-0281

07-0282

07-0283

07-0284

07-0285

07-0286

07-0287

07-0288

07-0289

07-0290

07-0291

07-0292

07-0293

07-0294

07-0295

07-0296

07-0297

07-0298

07-0299

07-0300

07-0301

07-0302

07-0303

07-0304

07-0305

07-0306

07-0307

07-0308

07-0309

07-0310

07-0311

07-0312

07-0313

07-0314

07-0315

07-0316

07-0317

07-0318

07-0319

07-0320

07-0321

07-0322

07-0323

07-0324

07-0325

07-0326

07-0327

07-0328

07-0329

07-0330

07-0331

07-0332

07-0333

07-0334

07-0335

07-0336

07-0337

07-0338

07-0339

07-0340

07-0341

07-0342

07-0343

07-0344

07-0345

07-0346

07-0347

07-0348

07-0349

07-0350

07-0351

07-0352

07-0353

07-0354

07-0355

07-0356

07-0357

07-0358

07-0359

07-0360

07-0361

07-0362

07-0363

07-0364

07-0365

07-0366

07-0367

07-0368

07-0369

07-0370

07-0371

07-0372

07-0373

07-0374

07-0375

07-0376

07-0377

07-0378

07-0379

07-0380

07-0381

07-0382

07-0383

07-0384

07-0385

07-0386

07-0387

07-0388

07-0389

07-0390

07-0391

07-0392

07-0393

07-0394

07-0395

07-0396

07-0397

07-0398

07-0399

07-0400

07-0401

07-0402

07-0403

07-0404

07-0405

07-0406

07-0407

07-0408

07-0409

07-0410

07-0411

07-0412

07-0413

07-0414

07-0415

07-0416

07-0417

07-0418

07-0419

07-0420

07-0421

07-0422

07-0423

07-0424

07-0425

07-0426

07-0427

07-0428

07-0429

07-0430

07-0431

07-0432

07-0433

07-0434

07-0435

07-0436

07-0437

07-0438

07-0439

07-0440

07-0441

07-0442

07-0443

07-0444

07-0445

07-0446

07-0447

07-0448

07-0449

07-0450

07-0451

07-0452

07-0453

07-0454

07-0455

07-0456

07-0457

07-0458

07-0459

07-0460

07-0461

07-0462

07-0463

07-0464

07-0465

07-0466

07-0467

07-0468

07-0469

07-0470

07-0471

07-0472

07-0473

07-0474

07-0475

07-0476

07-0477

07-0478

07-0479

07-0480

07-0481

07-0482

07-0483

07-0484

07-0485

07-0486

07-0487

07-0488

07-0489

07-0490

07-0491

07-0492

07-0493

07-0494

07-0495

07-0496

07-0497

07-0498

07-0499

07-0500

07-0501

07-0502

07-0503

07-0504

07-0505

07-0506

07-0507

07-0508

07-0509

07-0510

07-0511

07-0512

07-0513

07-0514

07-0515

07-0516

07-0517

07-0518

07-0519

07-0520

07-0521

07-0522

07-0523

07-0524

07-0525

07-0526

07-0527

07-0528

07-0529

07-0530

07-0531

07-0532

07-0533

07-0534

07-0535

07-0536

07-0537

07-0538

07-0539

07-0540

07-0541

07-0542

07-0543

07-0544

07-0545

07-0546

07-0547

07-0548

07-0549

07-0550

07-0551

07-0552

07-0553

07-0554

07-0555

07-0556

07-0557

07-0558

07-0559

07-0560

07-0561

07-0562

07-0563

07-0564

07-0565

07-0566

07-0567

07-0568

07-0569

07-0570

07-0571

07-0572

07-0573

07-0574

07-0575

07-0576

07-0577

07-0578

07-0579

07-0580

07-0581

07-0582

07-0583

07-0584

07-0585

07-0586

07-0587

07-0588

07-0589

07-0590

07-0591

07-0592

07-0593

07-0594

07-0595

07-0596

07-0597

07-0598

07-0599

07-0600

07-0601

07-0602

07-0603

07-0604

07-0605

07-0606

07-0607

07-0608

07-0609

07-0610

07-0611

07-0612

07-0613

07-0614

07-0615

07-0616

07-0617

07-0618

07-0619

07-0620

07-0621

07-0622

07-0623

07-0624

07-0625

07-0626

07-0627

07-0628

07-0629

07-0630

07-0631

07-0632

07-0633

07-0634

07-0635

07-0636

07-0637

07-0638

07-0639

07-0640

07-0641

07-0642

07-0643

07-0644

07-0645

07-0646

07-0647

07-0648

07-0649

07-0650

07-0651

07-0652

07-0653

07-0654

07-0655

07-0656

07-0657

07-0658

07-0659

07-0660

07-0661

07-0662

07-0663

07-0664

07-0665

07-0666

07-0667

07-0668

07-0669

07-0670

07-0671

07-0672

07-0673

07-0674

07-0675

07-0676

07-0677

07-0678

07-0679

07-0680

07-0681

07-0682

07-0683

07-0684

07-0685

07-0686

07-0687

07-0688

07-0689

07-0690

07-0691

07-0692

07-0693

07-0694

07-0695

07-0696

07-0697

07-0698

07-0699

07-0700

07-0701

07-0702

07-0703

07-0704

07-0705

07-0706

07-0707

07-0708

07-0709

07-0710

07-0711

07-0712

07-0713

07-0714

07-0715

07-0716

07-0717

07-0718

07-0719

07-0720

07-0721

07-0722

07-0723

07-0724

07-0725

07-0726

07-0727

07-0728

07-0729

07-0730

07-0731

07-0732

07-0733

07-0734

07-0735

07-0736

07-0737

07-0738

07-0739

07-0740

07-0741

07-0742

07-0743

07-0744

07-0745

07-0746

07-0747

07-0748

07-0749

07-0750

07-0751

07-0752

07-0753

07-0754

07-0755

07-0756

07-0757

07-0758

07-0759

07-0760

07-0761

07-0762

07-0763

07-0764

07-0765

07-0766

07-0767

07-0768

07-0769

07-0770

07-0771

07-0772

07-0773

07-0774

07-0775

07-0776

07-0777

07-0778

07-0779

07-0780

07-0781

07-0782

07-0783

07-0784

07-0785

07-0786

07-0787

07-0788

07-0789

07-0790

07-0791

07-0792

07-0793

07-0794

07-0795

07-0796

07-0797

07-0798

07-0799

07-0800

07-0801

07-0802

07-0803

07-0804

07-0805

07-0806

07-0807

07-0808

07-0809

07-0810

07-0811

07-0812

07-0813

07-0814

07-0815

07-0816

07-0817

07-0818

07-0819

07-0820

07-0821

07-0822

07-0823

07-0824

07-0825

07-0826

07-0827

07-0828

07-0829

07-0830

07-0831

07-0832

07-0833

07-0834

07-0835

07-0836

07-0837

07-0838

07-0839

07-0840

07-0841

07-0842

07-0843

07-0844

07-0845

07-0846

07-0847

07-0848

07-0849

07-0850

07-0851

07-0852

07-0853

07-0854

07-0855

07-0856

07-0857

07-0858

07-0859

07-0860

07-0861

07-0862

07-0863

07-0864

07-0865

07-0866

07-0867

07-0868

07-0869

07-0870

07-0871

07-0872

07-0873

07-0874

07-0875

07-0876

07-0877

07-0878

07-0879

07-0880

07-0881

07-0882

07-0883

07-0884

07-0885

07-0886

07-0887

07-0888

07-0889

07-0890

07-0891

07-0892

07-0893

07-0894

07-0895

07-0896

07-0897

07-0898

07-0899

07-0900

07-0901

07-0902

07-0903

07-0904

07-0905

07-0906

07-0907

07-0908

07-0909

07-0910

07-0911

07-0912

07-0913

07-0914

07-0915

07-0916

07-0917

07-0918

07-0919

07-0920

07-0921

07-0922

07-0923

07-0924

07-0925

07-0926

07-0927

07-0928

07-0929

07-0930

07-0931

07-0932

07-0933

07-0934

07-0935

07-0936

07-0937

07-0938

07-0939

07-0940

07-0941

07-0942

07-0943

07-0944

07-0945

07-0946

07-0947

07-0948

07-0949

07-0950

07-0951

07-0952

07-0953

07-0954

07-0955

07-0956

07-0957

07-0958

07-0959

07-0960

07-0961

07-0962

07-0963

07-0964

07-0965

07-0966

07-0967

07-0968

07-0969

07-0970

07-0971

07-0972

07-0973

07-0974

07-0975

07-0976

07-0977

07-0978

07-0979

07-0980

07-0981

07-0982

07-0983

07-0984

07-0985

07-0986

07-0987

07-0988

07-0989

07-0990

07-0991

07-0992

07-0993

07-0994

07-0995

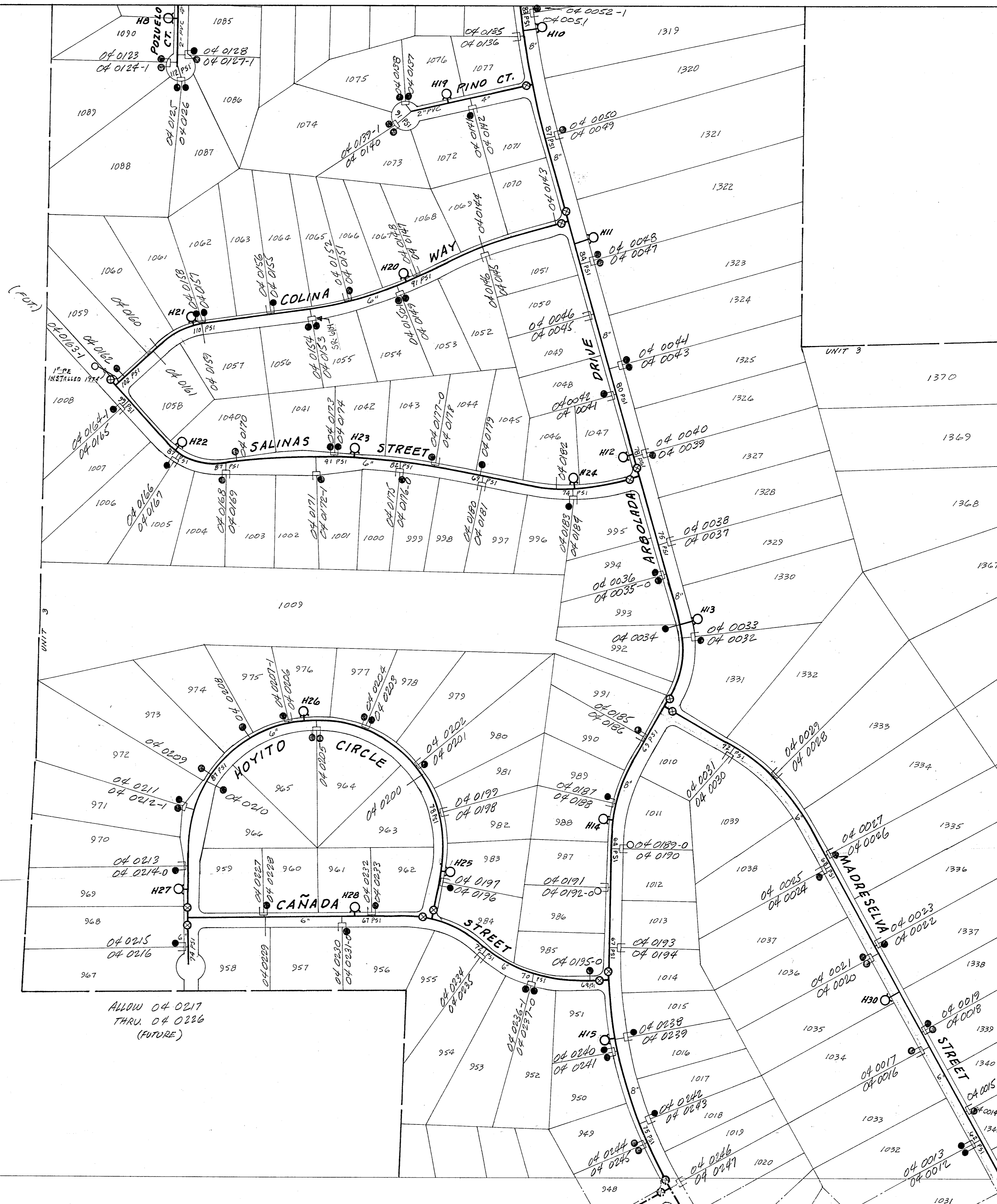
07-0996

07-0997

07-0998

07-0999

07-1000



E-3

LAKE DON PEDRO
COMMUNITY SERVICES DISTRICT
WATER DISTRIBUTION SYSTEM

INDEX: MAP REF. D.27D A1

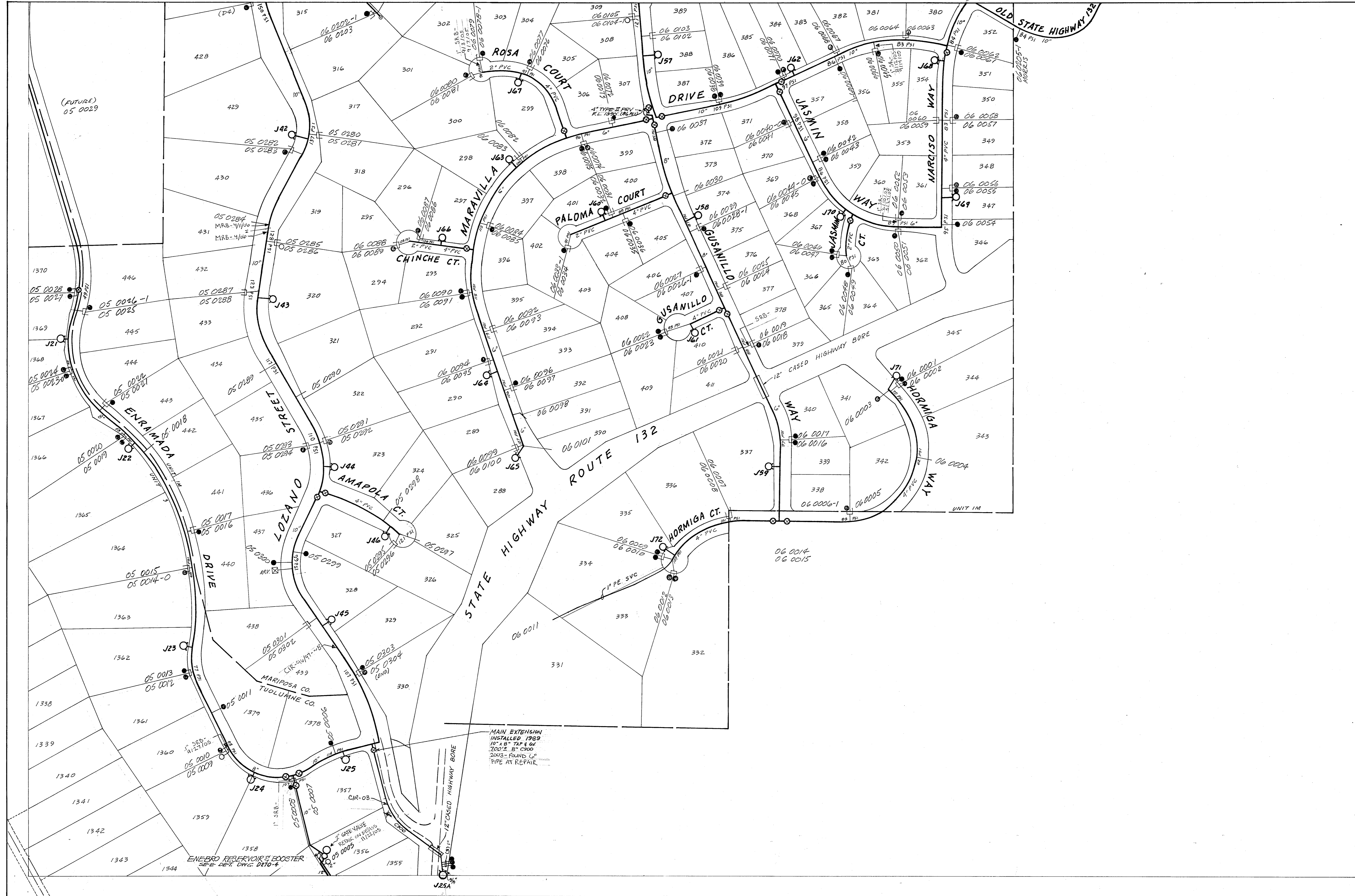
LOCATION
TWP RANGE 25
SECTION 35
COUNTY 5
PARISH/STATE 5
SCALE 1" = 100'

NO. 2579 A1	DATE 4/74	CHECKED 465	APP'D.
DRAWN BY	RECORD	100	400

REVISIONS

NO.	DATE	REVISION
1005	GENERAL-UPDATE	
1094	GENERAL-UPDATE	
1077	ADD EX. 1021	
1078	ADD EX. 1021	
1079	ADD EX. 1021	
1080	ADD EX. 1021	
1081	ADD EX. 1021	
1082	ADD EX. 1021	
1083	ADD EX. 1021	
1084	ADD EX. 1021	
1085	ADD EX. 1021	
1086	ADD EX. 1021	
1087	ADD EX. 1021	
1088	ADD EX. 1021	
1089	ADD EX. 1021	
1090	ADD EX. 1021	
1091	ADD EX. 1021	
1092	ADD EX. 1021	
1093	ADD EX. 1021	
1094	ADD EX. 1021	
1095	ADD EX. 1021	
1096	ADD EX. 1021	
1097	ADD EX. 1021	
1098	ADD EX. 1021	
1099	ADD EX. 1021	
1100	ADD EX. 1021	
1101	ADD EX. 1021	
1102	ADD EX. 1021	
1103	ADD EX. 1021	
1104	ADD EX. 1021	
1105	ADD EX. 1021	
1106	ADD EX. 1021	
1107	ADD EX. 1021	
1108	ADD EX. 1021	
1109	ADD EX. 1021	
1110	ADD EX. 1021	
1111	ADD EX. 1021	
1112	ADD EX. 1021	
1113	ADD EX. 1021	
1114	ADD EX. 1021	
1115	ADD EX. 1021	
1116	ADD EX. 1021	
1117	ADD EX. 1021	
1118	ADD EX. 1021	
1119	ADD EX. 1021	
1120	ADD EX. 1021	
1121	ADD EX. 1021	
1122	ADD EX. 1021	
1123	ADD EX. 1021	
1124	ADD EX. 1021	
1125	ADD EX. 1021	
1126	ADD EX. 1021	
1127	ADD EX. 1021	
1128	ADD EX. 1021	
1129	ADD EX. 1021	
1130	ADD EX. 1021	
1131	ADD EX. 1021	
1132	ADD EX. 1021	
1133	ADD EX. 1021	
1134	ADD EX. 1021	
1135	ADD EX. 1021	
1136	ADD EX. 1021	
1137	ADD EX. 1021	
1138	ADD EX. 1021	
1139	ADD EX. 1021	
1140	ADD EX. 1021	
1141	ADD EX. 1021	
1142	ADD EX. 1021	
1143	ADD EX. 1021	
1144	ADD EX. 1021	
1145	ADD EX. 1021	
1146	ADD EX. 1021	
1147	ADD EX. 1021	
1148	ADD EX. 1021	
1149	ADD EX. 1021	
1150	ADD EX. 1021	
1151	ADD EX. 1021	
1152	ADD EX. 1021	
1153	ADD EX. 1021	
1154	ADD EX. 1021	
1155	ADD EX. 1021	
1156	ADD EX. 1021	
1157	ADD EX. 1021	
1158	ADD EX. 1021	
1159	ADD EX. 1021	
1160	ADD EX. 1021	
1161	ADD EX. 1021	
1162	ADD EX. 1021	
1163	ADD EX. 1021	
1164	ADD EX. 1021	
1165	ADD EX. 1021	
1166	ADD EX. 1021	
1167	ADD EX. 1021	
1168	ADD EX. 1021	
1169	ADD EX. 1021	
1170	ADD EX. 1021	
1171	ADD EX. 1021	
1172	ADD EX. 1021	
1173	ADD EX. 1021	
1174	ADD EX. 1021	
1175	ADD EX. 1021	
1176	ADD EX. 1021	
1177	ADD EX. 1021	
1178	ADD EX. 1021	
1179	ADD EX. 1021	
1180	ADD EX. 1021	
1181	ADD EX. 1021	
1182	ADD EX. 1021	
1183	ADD EX. 1021	
1184	ADD EX. 1021	
1185	ADD EX. 1021	
1186	ADD EX. 1021	
1187	ADD EX. 1021	
1188	ADD EX. 1021	
1189	ADD EX. 1021	
1190	ADD EX. 1021	
1191	ADD EX. 1021	
1192	ADD EX. 1021	
1193	ADD EX. 1021	
1194	ADD EX. 1021	
1195	ADD EX. 1021	
1196	ADD EX. 1021	
1197	ADD EX. 1021	
1198	ADD EX. 1021	
1199	ADD EX. 1021	
1200	ADD EX. 1021	
1201	ADD EX. 1021	
1202	ADD EX. 1021	
1203	ADD EX. 1021	
1204	ADD EX. 1021	
1205	ADD EX. 1021	
1206	ADD EX. 1021	
1207	ADD EX. 1021	
1208	ADD EX. 1021	
1209	ADD EX. 1021	
1210	ADD EX. 1021	
1211	ADD EX. 1021	
1212	ADD EX. 1021	
1213	ADD EX. 1021	
1214	ADD EX. 1021	
1215	ADD EX. 1021	
1216	ADD EX. 1021	
1217	ADD EX. 1021	
1218	ADD EX. 1021	
1219	ADD EX. 1021	
1220	ADD EX. 1021	
1221	ADD EX. 1021	
1222	ADD EX. 1021	
1223	ADD EX. 1021	
1224	ADD EX. 1021	
1225	ADD EX. 1021	
1226	ADD EX. 1021	
1227	ADD EX. 1021	
1228	ADD EX. 1021	
1229	ADD EX. 1021	
1230	ADD EX. 1021	
1231	ADD EX. 1021	
1232	ADD EX. 1021	
1233	ADD EX. 1021	
1234	ADD EX. 1021	
1235	ADD EX. 1021	
1236	ADD EX. 1021	
1237	ADD EX. 1021	
1238	ADD EX. 1021	
1239	ADD EX. 1021	
1240	ADD EX. 1021	
1241	ADD EX. 1021	
1242	ADD EX. 1021	
1243	ADD EX. 1021	
1244	ADD EX. 1021	
1245	ADD EX. 1021	
1246	ADD EX. 1021	
1247	ADD EX. 1021	
1248	ADD EX. 1021	
1249	ADD EX. 1021	
1250	ADD EX. 1021	
1251	ADD EX. 1021	
1252	ADD EX. 1021	
1253	ADD EX. 1021	
1254	ADD EX. 1021	
1255	ADD EX. 1021	
1256	ADD EX. 1021	
1257	ADD EX. 1021	
1258	ADD EX. 1021	
1259	ADD EX. 1021	
1260	ADD EX. 1021	
1261	ADD EX. 1021	
1262	ADD EX. 1021	
1263	ADD EX. 1021	
1264	ADD EX. 1021	
1265	ADD EX. 1021	
1266	ADD EX. 1021	
1267	ADD EX. 1021	
1268	ADD EX. 1021	
1269	ADD EX. 1021	
1270	ADD EX. 1021	
1271	ADD EX. 1021	
1272	ADD EX. 1021	
1273	ADD EX. 1021	
1274	ADD EX. 1021	
1275	ADD EX. 1021	
1276	ADD EX. 1021	
1277	ADD EX. 1021	
1278	ADD EX. 1021	
1279	ADD EX. 1021	
1280	ADD EX. 1021	
1281	ADD EX. 1021	
1282	ADD EX. 1021	
1283	ADD EX. 1021	
1284	ADD EX. 1021	
1285	ADD EX. 1021	
1286	ADD EX. 1021	
1287	ADD EX. 1021	
1288	ADD EX. 1021	
1289	ADD EX. 1021	
1290	ADD EX. 1021	
1291	ADD EX. 1021	
1292	ADD EX. 1021	
1293	ADD EX. 1021	
1294	ADD EX. 1021	
1295	ADD EX. 1021	
1296	ADD EX. 1021	
1297	ADD EX. 1021	
1298	ADD EX. 1021	
1299	ADD EX. 1021	
1300	ADD EX. 1021	
1301	ADD EX. 1021	
1302	ADD EX. 1021	
1303	ADD EX. 1021	
1304	ADD EX. 1021	
1305	ADD EX. 1021	
1306	ADD EX. 1021	
1307	ADD EX. 1021	
1308	ADD EX. 1021	
1309	ADD EX. 1021	
1310	ADD EX. 1021	
1311	ADD EX. 1021	
1312	ADD EX. 1021	
1313	ADD EX. 1021	
1314	ADD EX. 1021	
1315	ADD EX. 1021	
1316	ADD EX. 1021	
1317	ADD EX. 1021	
1318	ADD EX. 1021	
1319	ADD EX. 1021	
1320	ADD EX. 1021	
1321	ADD EX. 1021	
1322	ADD EX. 1021	
1323	ADD EX. 1021	
1324	ADD EX. 1021	
1325	ADD EX. 1021	
1326	ADD EX. 1021	
1327	ADD EX. 1021	
1328	ADD EX. 1021	
1329	ADD EX. 1021	
1330	ADD EX. 1021	
1331	ADD EX. 1021	
1332	ADD EX. 1021	
1333	ADD EX. 1021	
1334	ADD EX. 1021	
1335	ADD EX. 1021	
1336	ADD EX. 1021	
1337	ADD EX. 1021	
1338	ADD EX. 1021	
1339	ADD EX. 1021	
1340	ADD EX. 1021	
1341	ADD EX. 1021	
1342	ADD EX. 1021	
1343	ADD EX. 1021	
1344	ADD EX. 1021	
1345	ADD EX. 1021	
1346	ADD EX. 1021	
1347	ADD EX. 1021	
1348	ADD EX. 1021	
1349	ADD EX. 1021	
1350	ADD EX. 1021	

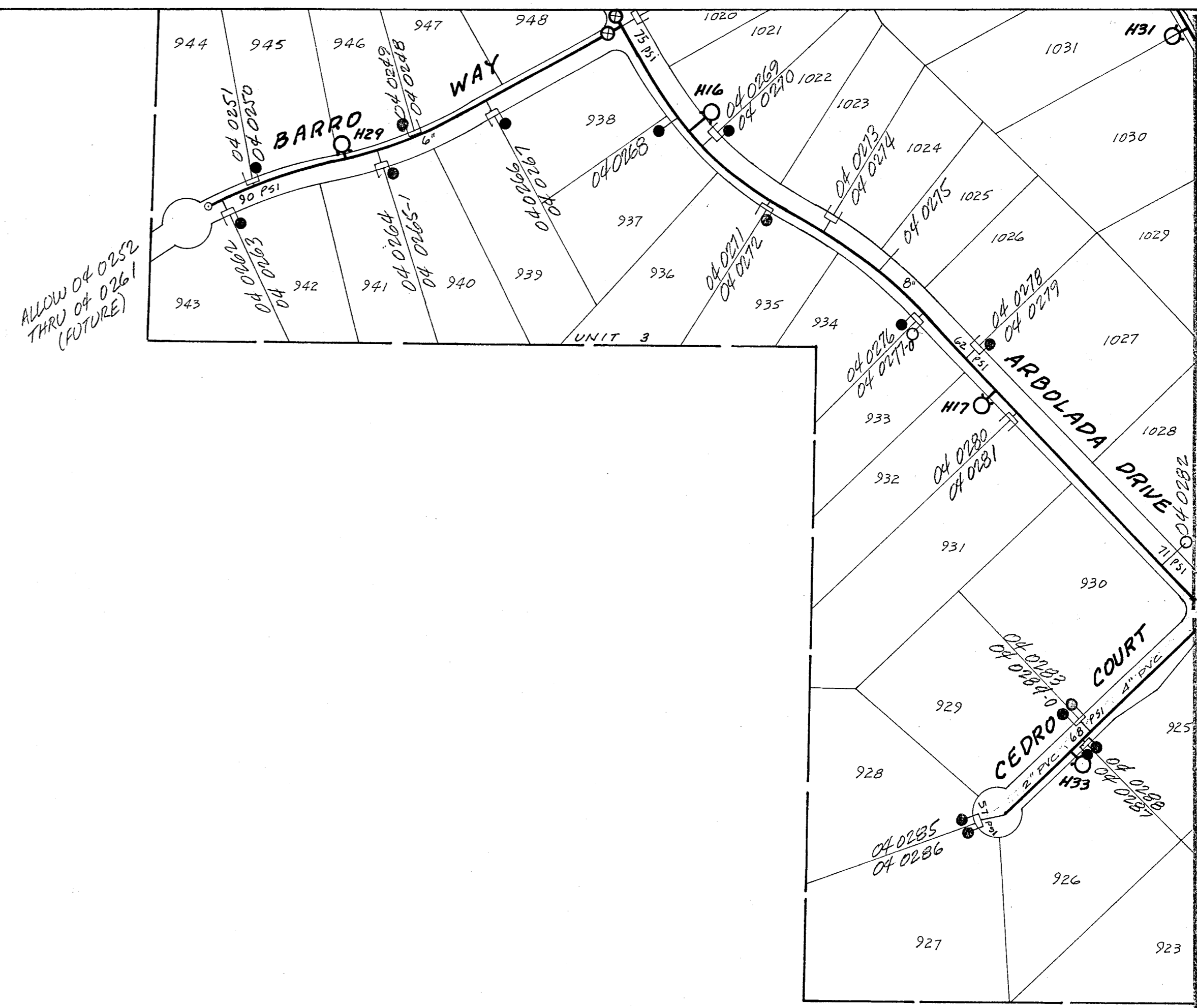
Blunkley Associates
10000 W. 10th St., Suite 100, Overland Park, KS 66211
TEL: 913-666-1100 FAX: 913-666-1101



MAIN EXTENSION
 INSTALLED 1989
 10" x 8" TAP & 6"
 200'± 8" CHOD
 2003 - FOUND 6"
 PIPE AT REPAIR

ENEPRO RESERVOIR'S BOOSTER
 SEE DET. DWG. DT10-4

NO. 2752.18		DATE 3/74	805 GENERAL UPDATE	DIP
DRAWN 2P		CHECKED GAB	1094 GENERAL UPDATE	GRB
RECORD D.		APP D.	1 6/77 12/77 2/78 12/78	APP
INDEX MAP REF. 279 A1		SCALE	NO DATE REVISION	APP
TWP. 12S		R. 4E	Binkley Associates <small>INCORPORATED - 1968</small>	
COUNTY 200/200		REVISIONS		
LOCATION		LAKE DON PEDRO		
RANGE 12S		COMMUNITY SERVICES DISTRICT		
SECTION 33		WATER DISTRIBUTION SYSTEM		
INDEX MAP REF. 279 A1		E-4		



F-3

LAKE DON PEDRO
COMMUNITY SERVICES DISTRICT
WATER DISTRIBUTION SYSTEM

TWP. RANGE 35 SECTION 9 COUNTY TULSA

INDEX: MAP REF. D 279 A1

NO. 047249 DATE 3/74
DRAWN BY CHECKED GEB
RECORD D. 100 APP'D.

NO. DATE REVISION
1094 GENERAL UPDATE 1/87
1095 GENERAL UPDATE 1/87
1096 GENERAL UPDATE 1/87

DIP 688
GRR 622
APP'D.

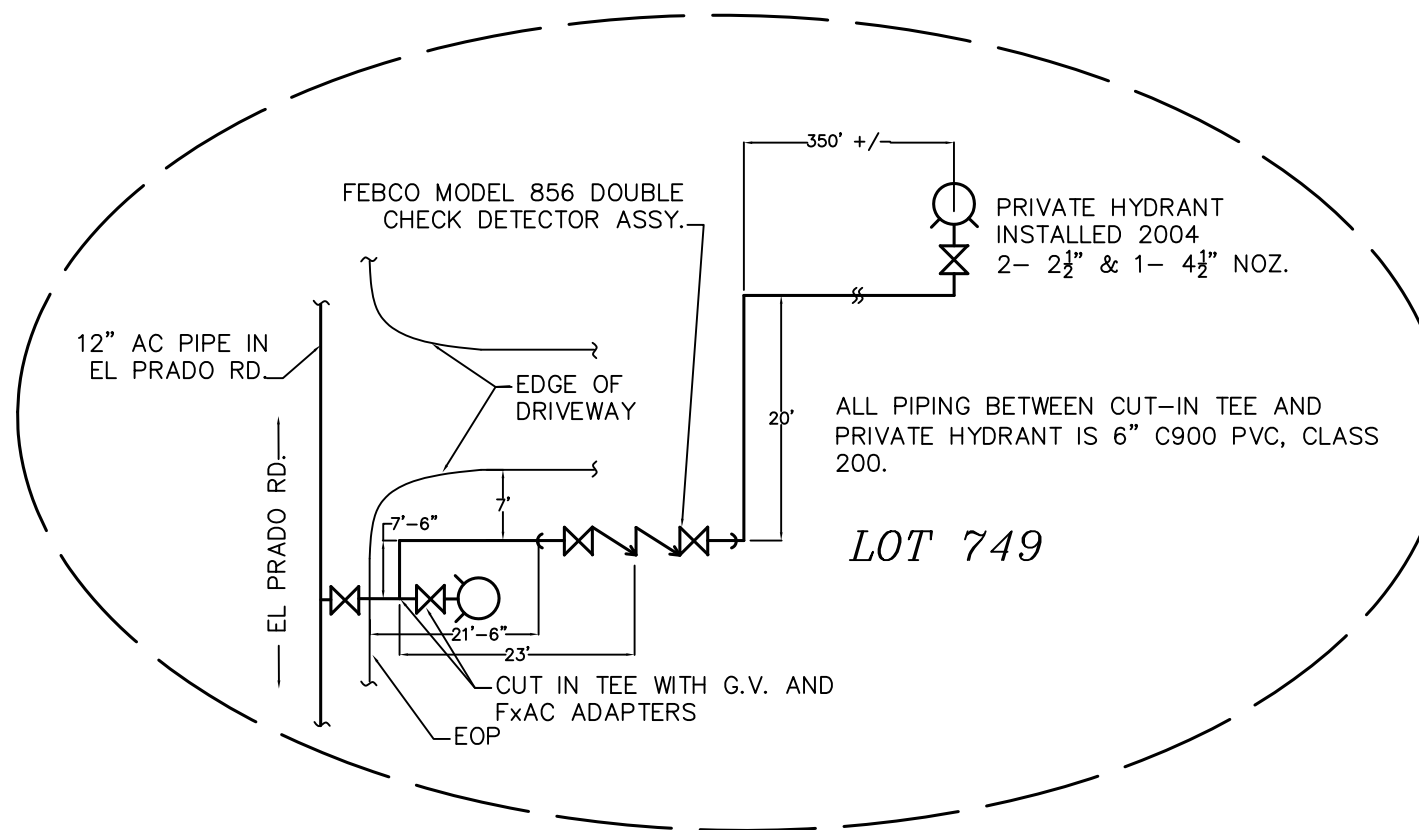
REVISIONS

SCALE

Blunkley Associates
CONSULTING ENGINEERS
1000 N. W. 10th St., Oklahoma City, Oklahoma 73102

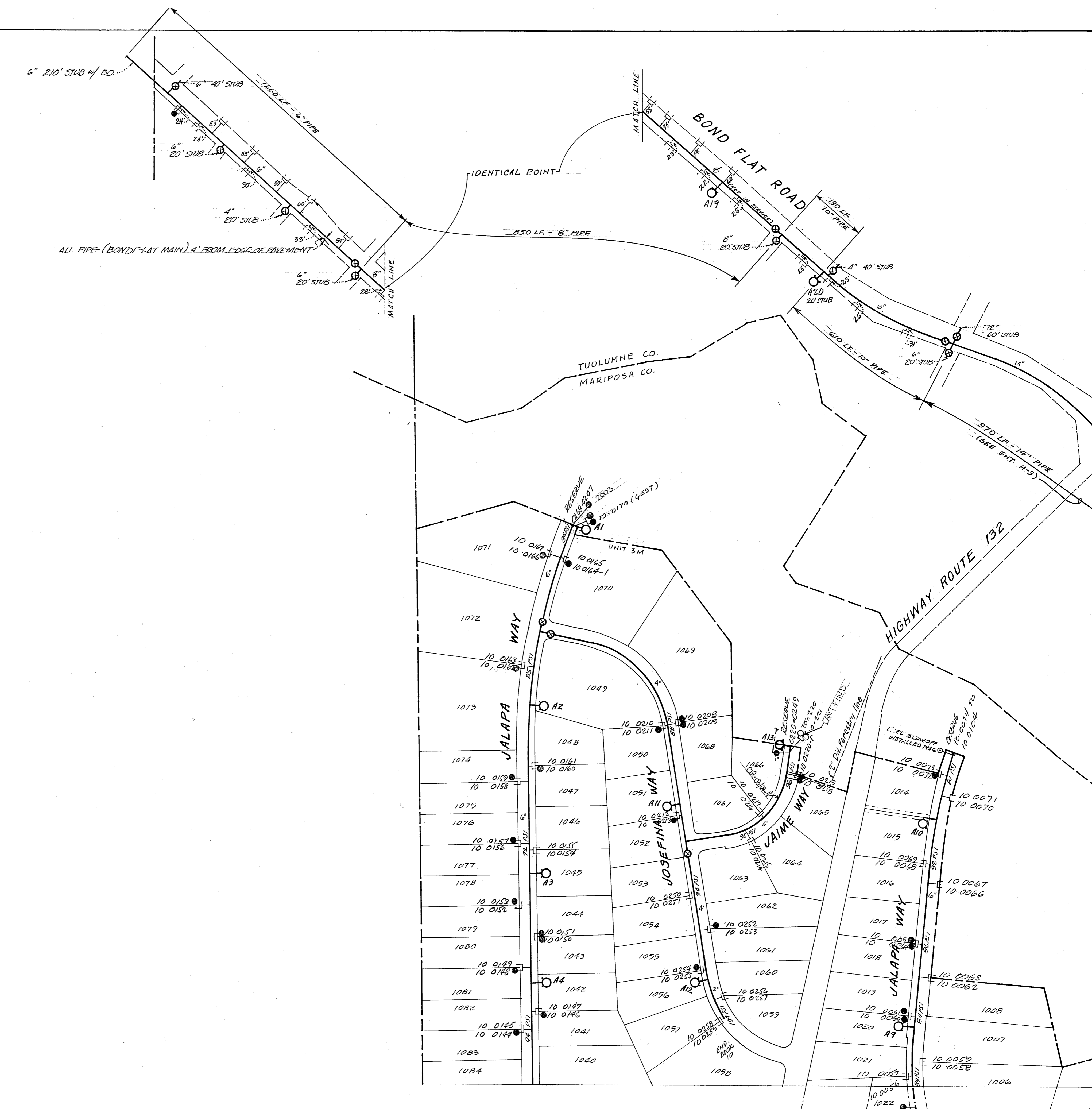


F-4 LAKE DON PEDRO COMMUNITY SERVICES DISTRICT WATER DISTRIBUTION SYSTEM		LOCATION TWP. 39 N. R. 72E. S. 4529 COUNTY 7000LWAZ	NO. 0270410 DATE 3/74 DRAWN DF RECD. 0	CHECKED GEB APP'D. GEB SCALE	808 GENERAL UPDATE 1084 GENERAL UPDATE 1 1/277 1/22/24/201 NO. DATE REVISION REVISIONS	Binkley Associates <small>INCORPORATED - SAN JOSE, CALIFORNIA 95128</small>
		INDEX MAP REF. D.27041	808 GENERAL UPDATE 1084 GENERAL UPDATE 1 1/277 1/22/24/201 NO. DATE REVISION REVISIONS	Binkley Associates <small>INCORPORATED - SAN JOSE, CALIFORNIA 95128</small>		



DETAIL A
N.T.S.

<p>LAKE DON PEDRO COMMUNITY SERVICES DISTRICT</p>		<p>LOCATION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>TWP:</td> <td>RANGE</td> <td>SECTION</td> <td>COUNTY</td> </tr> <tr> <td>35</td> <td>15E</td> <td>8, 9</td> <td>TUOLUMNE</td> </tr> </table>	TWP:	RANGE	SECTION	COUNTY	35	15E	8, 9	TUOLUMNE	<p>DATE: 3/74</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DRAWN: DF</td> <td>CHECKED: GRB</td> </tr> <tr> <td>RECOM'D:</td> <td>APP'D:</td> </tr> </table>	DRAWN: DF	CHECKED: GRB	RECOM'D:	APP'D:	<p>DWG.# D279A11</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>GENERAL - UPDATE</td> <td>D.P.</td> </tr> <tr> <td>DIGITIZE SHEET, ADD LOT 749</td> <td>EAB</td> </tr> <tr> <td>GENERAL - UPDATE</td> <td>GRB</td> </tr> <tr> <td>ADD F.H. NRS.</td> <td>GRB</td> </tr> <tr> <td>REVISION</td> <td>GRB</td> </tr> </table>	GENERAL - UPDATE	D.P.	DIGITIZE SHEET, ADD LOT 749	EAB	GENERAL - UPDATE	GRB	ADD F.H. NRS.	GRB	REVISION	GRB
TWP:	RANGE	SECTION	COUNTY																							
35	15E	8, 9	TUOLUMNE																							
DRAWN: DF	CHECKED: GRB																									
RECOM'D:	APP'D:																									
GENERAL - UPDATE	D.P.																									
DIGITIZE SHEET, ADD LOT 749	EAB																									
GENERAL - UPDATE	GRB																									
ADD F.H. NRS.	GRB																									
REVISION	GRB																									
<p>WATER DISTRIBUTION SYSTEM</p>		<p>INDEX MAP REF. D279 A1</p>	<p>SCALE</p>	<p>REVISIONS</p>																						
<p>G-4</p>		<p>6</p>	<p>10/18 UPGRADE MAIN IN LAS PALMAS EAB</p>	<p>Binkley Associates CONSULTING ENGINEERS 7246 SHAWNEE DRIVE • SAN JOSE • CALIFORNIA 95129 • (408) 251-9252</p>																						



H-2

**LAKE DON PEDRO
COMMUNITY SERVICES DISTRICT
WATER DISTRIBUTION SYSTEM**

NO. 2729A12 DATE 3/74
DRAWN BY CHECKED SLS
RECORD 5489 APP'D.

805 GENERAL-UPDATE
1084 GENERAL-UPDATE
1 6/77 400 FEM 1084S
NO DATE REVISION
NO DATE REVISION

SCALE

LOCATION
TWP. RANGE SECTION COUNTY
3S 3E 7/36 TUOLUMNE CO.
12/12 MARIPOSA

UNITS: 1/8" = 100'

72


73

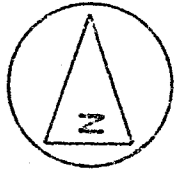
Binkley Associates
1000 N. G Street, Suite 100, Merced, CA 95341
TEL: (209) 385-1111 FAX: (209) 385-1112



H-3		LAKE DON PEDRO COMMUNITY SERVICES DISTRICT WATER DISTRIBUTION SYSTEM				<table border="1"> <tr> <th colspan="2">LOCATION</th> </tr> <tr> <td>TWP.</td> <td>SECTION</td> </tr> <tr> <td>38</td> <td>17/18</td> </tr> <tr> <td colspan="2">COUNTY</td> </tr> <tr> <td colspan="2">MARIPOSA CO.</td> </tr> <tr> <td colspan="2">INDEX MAP REF. D 275 A 1</td> </tr> </table>		LOCATION		TWP.	SECTION	38	17/18	COUNTY		MARIPOSA CO.		INDEX MAP REF. D 275 A 1		<table border="1"> <tr> <td>NO.</td> <td>DATE</td> <td>DATE</td> <td>DATE</td> </tr> <tr> <td>DRAWN BY</td> <td>3/74</td> <td>GENERAL-UPDATE</td> <td>DIP</td> </tr> <tr> <td>RECORD.</td> <td>APPROV.</td> <td>10/94</td> <td>GRB</td> </tr> <tr> <td></td> <td></td> <td>GENERAL-UPDATE</td> <td></td> </tr> <tr> <td></td> <td></td> <td>1/97</td> <td>REVISION</td> </tr> <tr> <td></td> <td></td> <td>NO DATE</td> <td>REVISION</td> </tr> <tr> <td></td> <td></td> <td></td> <td>APPROV.</td> </tr> </table>		NO.	DATE	DATE	DATE	DRAWN BY	3/74	GENERAL-UPDATE	DIP	RECORD.	APPROV.	10/94	GRB			GENERAL-UPDATE				1/97	REVISION			NO DATE	REVISION				APPROV.			Binkley Associates <small>ENGINEERS AND ARCHITECTS</small> <small>1150 S. 1ST ST., SUITE 100, SACRAMENTO, CA 95811</small>	
LOCATION																																																					
TWP.	SECTION																																																				
38	17/18																																																				
COUNTY																																																					
MARIPOSA CO.																																																					
INDEX MAP REF. D 275 A 1																																																					
NO.	DATE	DATE	DATE																																																		
DRAWN BY	3/74	GENERAL-UPDATE	DIP																																																		
RECORD.	APPROV.	10/94	GRB																																																		
		GENERAL-UPDATE																																																			
		1/97	REVISION																																																		
		NO DATE	REVISION																																																		
			APPROV.																																																		



INDEX MAP REF. D. 279 A1 		SCALE <small>1" = 100'</small>	
LOCATION TWP. RANGE 38S SEC. 16E COUNTY SACRAMENTO TOWNSHIP		NO. D. 279 A1 DRAWN BY: [blank] RECON'D. [blank]	
LAKE DON PEDRO COMMUNITY SERVICES DISTRICT WATER DISTRIBUTION SYSTEM		REVISIONS NO. DATE REVISION 1 12/27/00 1094 GENERAL UPDATE 2 12/27/00 1094 GENERAL UPDATE 3 12/27/00 1094 GENERAL UPDATE	
H-4		BLINKLEY ASSOCIATES <small>INCORPORATED</small> <small>1000 S. 10TH ST. SACRAMENTO, CA 95833</small> <small>TEL: 916.442.1100 FAX: 916.442.1101</small>	

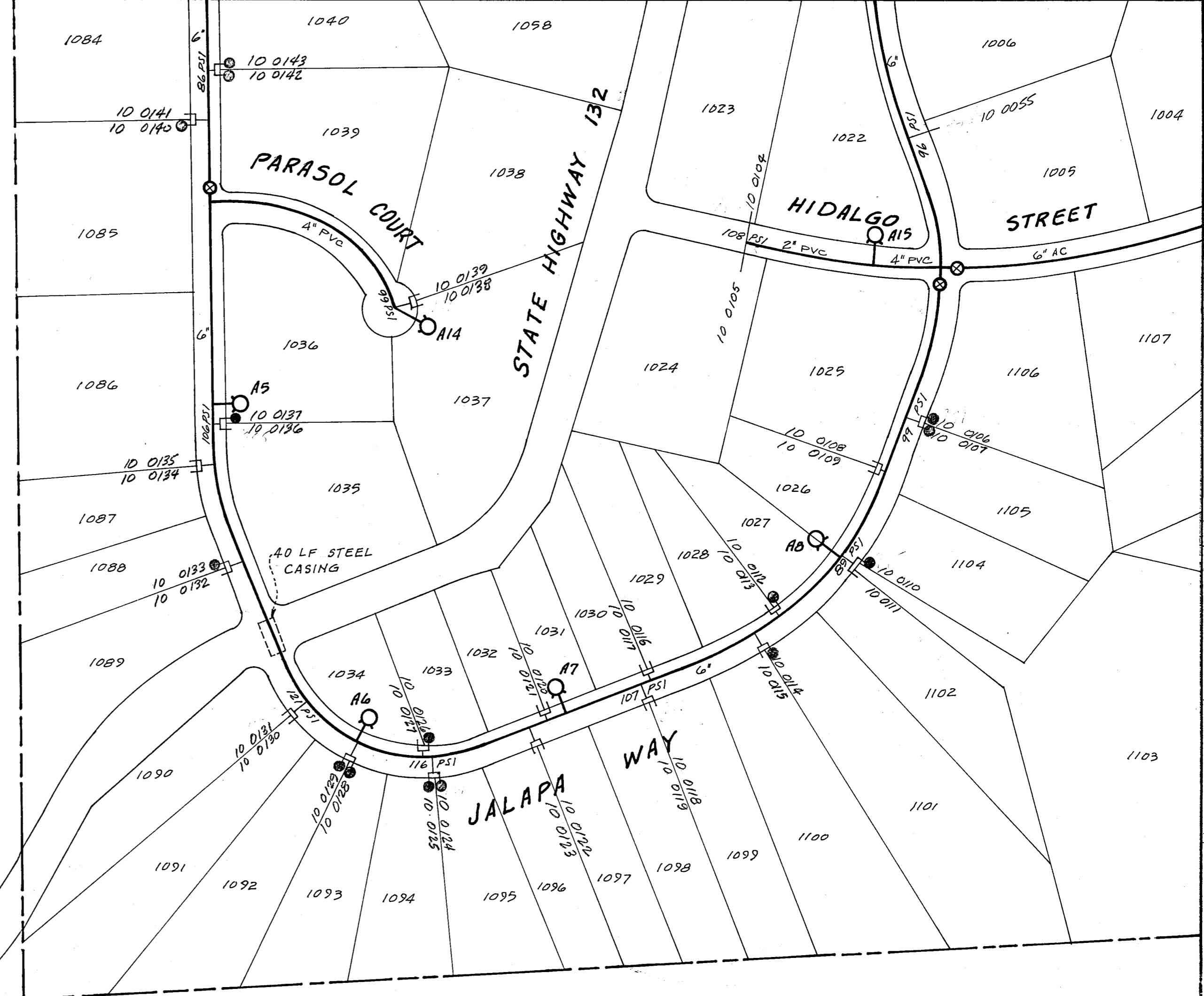


TWP.		RANGE		SECTION		COUNTY	
33	7E	17	17	MARICOPA		ARIZONA	
INDEX MAP REF.		D. 279 A1					

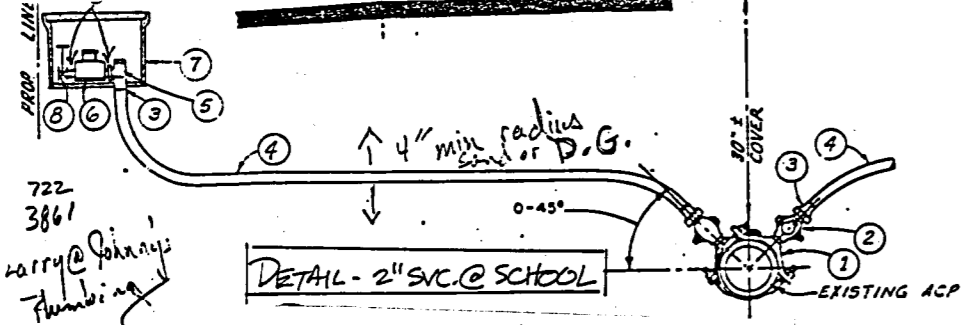
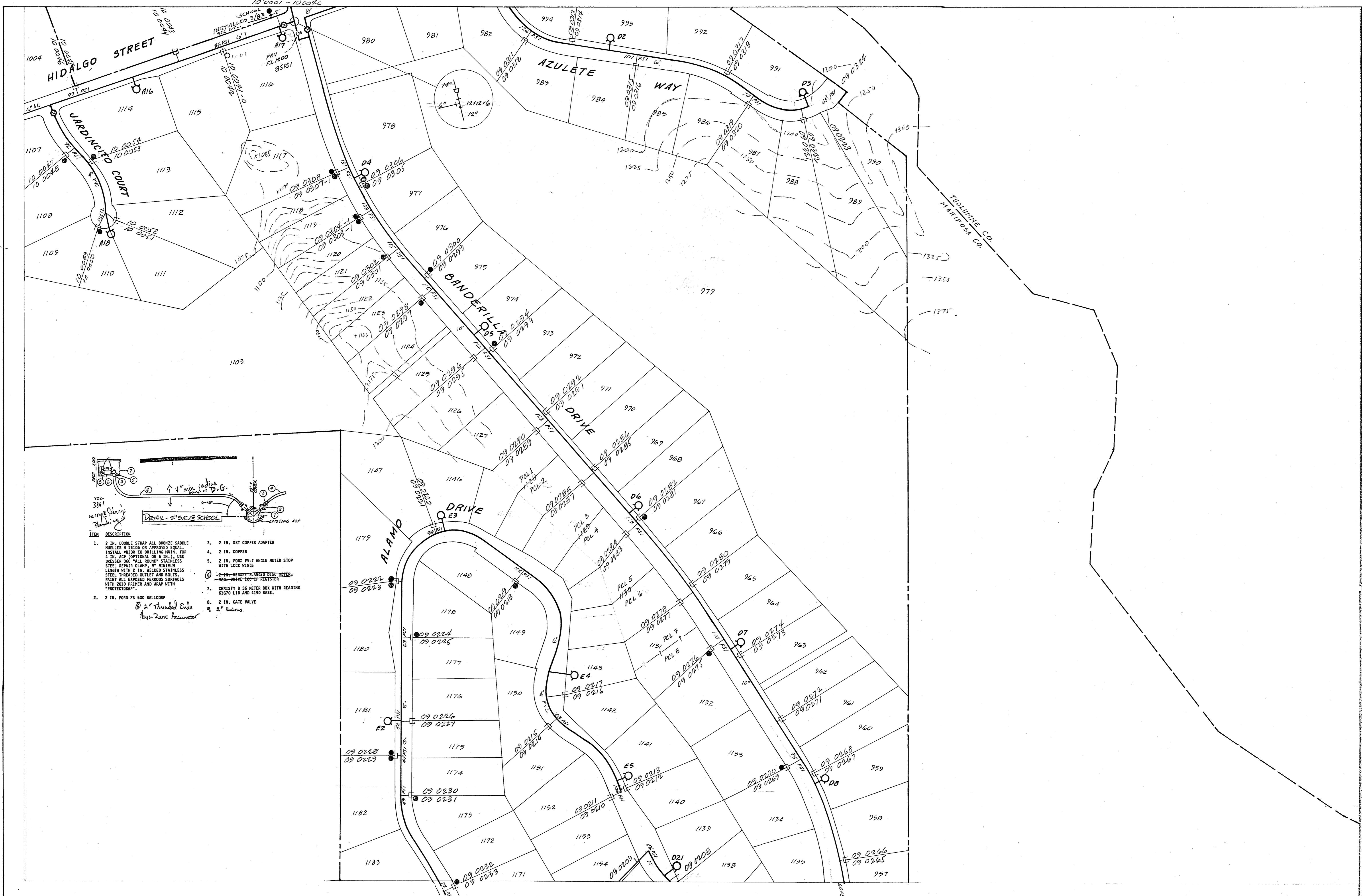
NO.	DRAWN BY	DATE	CHECKED
1094	CB	5/74	CCS
NO.	RECORD D.	DATE	APPROVED
1094	CB	5/74	CCS

806 GENERAL UPDATE		DIP
1094 GENERAL UPDATE		CB
1094 GENERAL UPDATE		CCS
1094 GENERAL UPDATE		CCS
NO DATE		REVISION
NO DATE		REVISION

Binkley Associates
INCORPORATED
 1700 BROADWAY - SUITE 202 - CALIFORNIA, CA 94612



12	13
13	14



- | ITEM | DESCRIPTION |
|------|--|
| 1. | 2 IN. DOUBLE STRAP ALL BRONZE SADDLE WHEELER 1/2" OR APPROX EQUAL. INSTALL PRIOR TO DRILLING MAIN. FOR 4 IN. ACP (OPTIONAL ON 6 IN.), USE PRESSURE JOG "HALL MONROE" STAINLESS STEEL REPAIR CLAMP, 9" MINIMUM LENGTH WITH 2 IN. WELDED STAINLESS STEEL THREADED OUTLET AND BOLTS. PAINT ALL EXPOSED FERROUS SURFACES WITH ZINC PRIMER AND WRAP WITH "PROTECTOPAK". |
| 2. | 2 IN. FORD FB 500 BALLCOOP @ 2" Threaded Ends
@ 2" Thru Accometer |
| 3. | 2 IN. SXT COPPER ADAPTER |
| 4. | 2 IN. COPPER |
| 5. | 2 IN. FORD FV-7 ANGLE METER STOP WITH LOCK WINGS |
| 6. | 2 IN. HERSEY FLANGED DISC METER. 100-DRIVE-100 CF REGISTER |
| 7. | CHRISTY 8 3/8 METER BOX WITH READING FLUID LID AND 1/2" BASE. |
| 8. | 2 IN. GATE VALVE |
| 9. | 2" Valve |

1-3

H2 H3 H4
12 14 14

J3 J4

**LAKE DON PEDRO
COMMUNITY SERVICES DISTRICT
WATER DISTRIBUTION SYSTEM**

INDEX MAP REF. D-279-41

TWP. RANGE 1 SECTION 1 COUNTY MARIQUESA

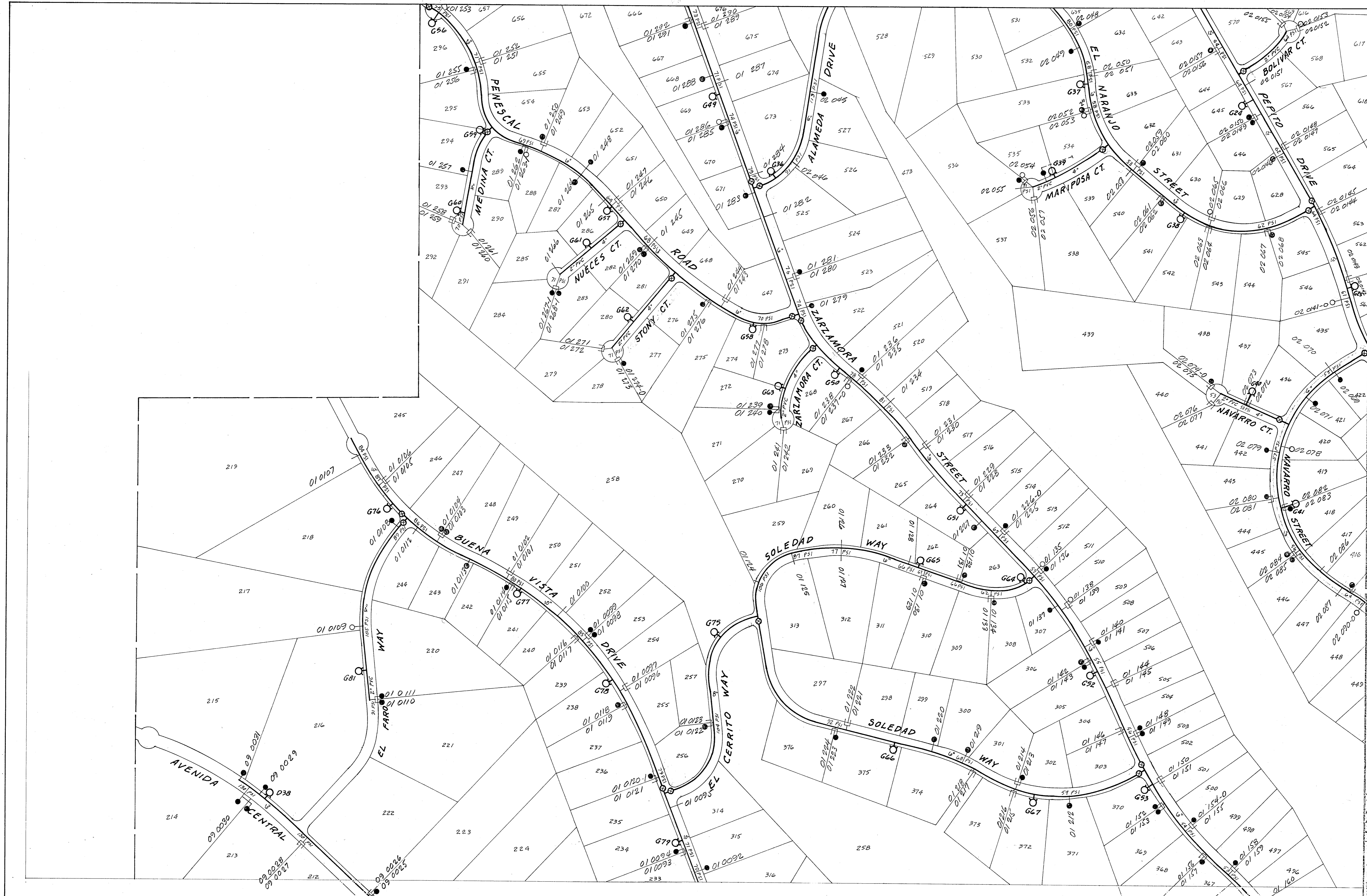
NO. 279-41/6 DATE 3/77
DRAWN BY CHECKED GEB
RECORD. APP'D.

806 GENERAL UPDATE
1084 GENERAL UPDATE
7 277 222 277/282
NO DATE REVISION APP'D

REVISIONS

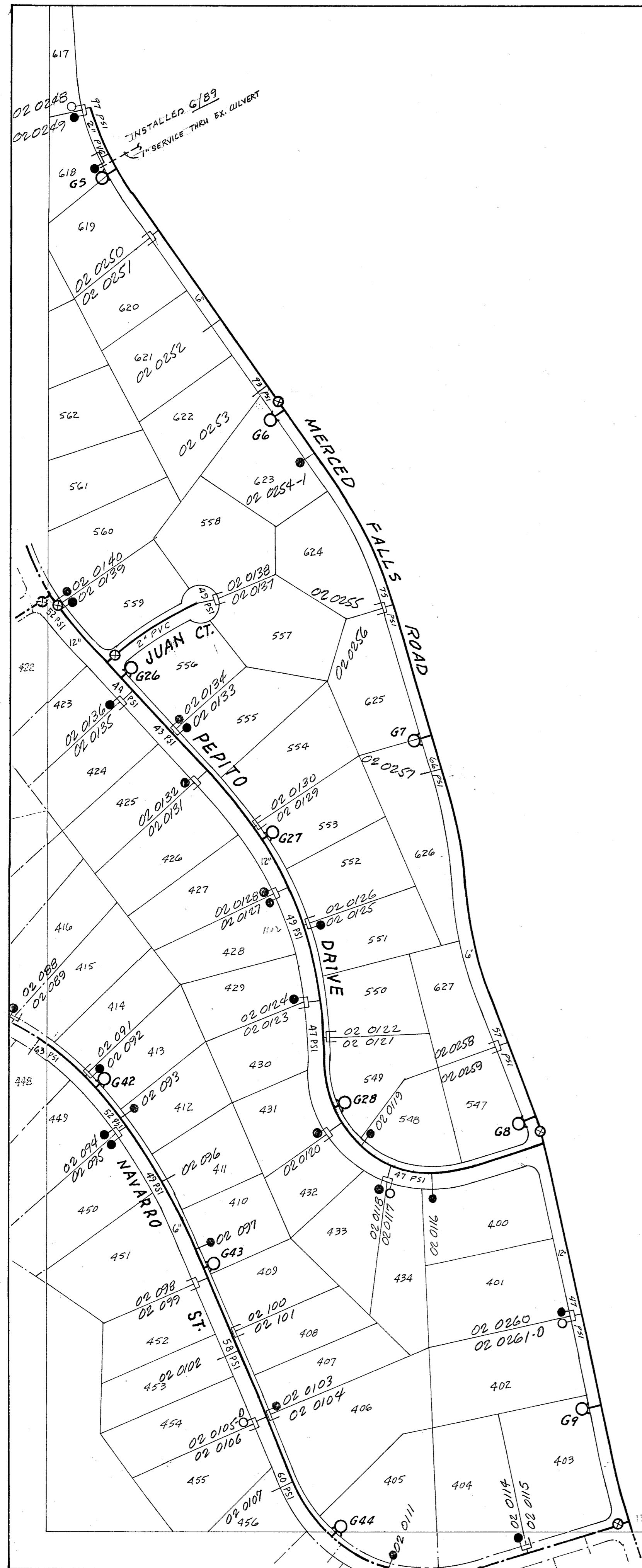
SCALE

Binkley Associates
INCORPORATED
1800 W. 10TH ST. SUITE 201 - CALUMET, ILL.



INDEX MAP REF. 2273.1		SCALE	
TWP. RANGE	SECTION	COUNTY	RECORD
25	12	22	220222
LOCATION		NO. 2273.1	
LAKE DON PEDRO		DATE 3/74	
COMMUNITY SERVICES DISTRICT		DRAWN BY	
WATER DISTRIBUTION SYSTEM		CHECKED GEB	
		10/84 GENERAL UPDATE	
		GEB	
		1/77 ADD FOR APP'D.	
		GEB	
		NO DATE REVISION	
		APP'D.	
		APP'D.	

Blinkley Associates
10000 W. 15th Ave., Suite 100, Denver, CO 80202



1-5

LAKE DON PEDRO
COMMUNITY SERVICES DISTRICT
WATER DISTRIBUTION SYSTEM

INDEX MAP REF. D.279 A1

NO. 279-A1/B

DATE 3/74

CHECKED 4/85

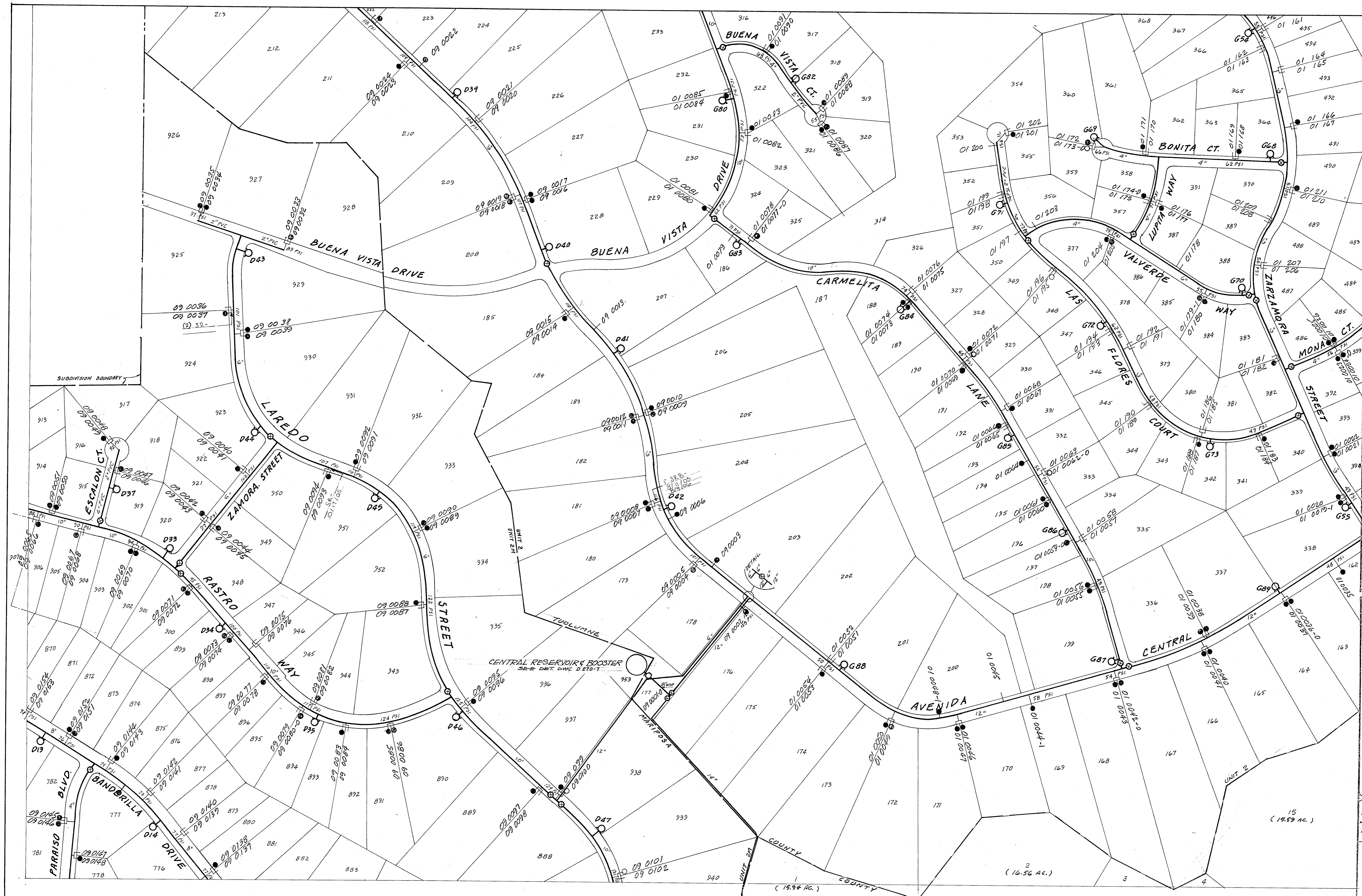
APP'D.

SCALE

LOCATION		NO. 279-A1/B		DATE 3/74	
TWP.	RANGE	SECTION	COUNTY	DRAWN BY	CHECKED
35	12E	12 1/2 E 12	72222	D.F.	4/85
INDEX MAP REF. D.279 A1		NO. 279-A1/B		DATE 3/74	
NO. 279-A1/B		DATE 3/74		CHECKED 4/85	
NO. 279-A1/B		DATE 3/74		APP'D.	
NO. 279-A1/B		DATE 3/74		SCALE	
NO. 279-A1/B		DATE 3/74		REVISION	
NO. 279-A1/B		DATE 3/74		APP'D.	

Binkley Associates

1215 SOUTH 10TH - SUITE 202 - OAKLAND, CALIF. 94612



**LAKE DON PEDRO
COMMUNITY SERVICES DISTRICT
WATER DISTRIBUTION SYSTEM**

J-4

NO. 2 2729 220	DATE 3/74	GENERAL-UPDATE	DIP
DRAWN BY	CHECKED GEB	ADD WORKSHEET NOS.	8/05 GENERAL-UPDATE
RECORD.	APP'D.	DATE	Binkley Associates
NO. 2 2729 220	DATE 3/74	GENERAL-UPDATE	DIP
DRAWN BY	CHECKED GEB	ADD WORKSHEET NOS.	8/05 GENERAL-UPDATE
RECORD.	APP'D.	DATE	Binkley Associates

LOCATION: TWP. RANGE 15E, SECTION 35, COUNTY 75E, MARICOPA CO, ARIZONA

HIDEK MAP REF. 2 2729 220

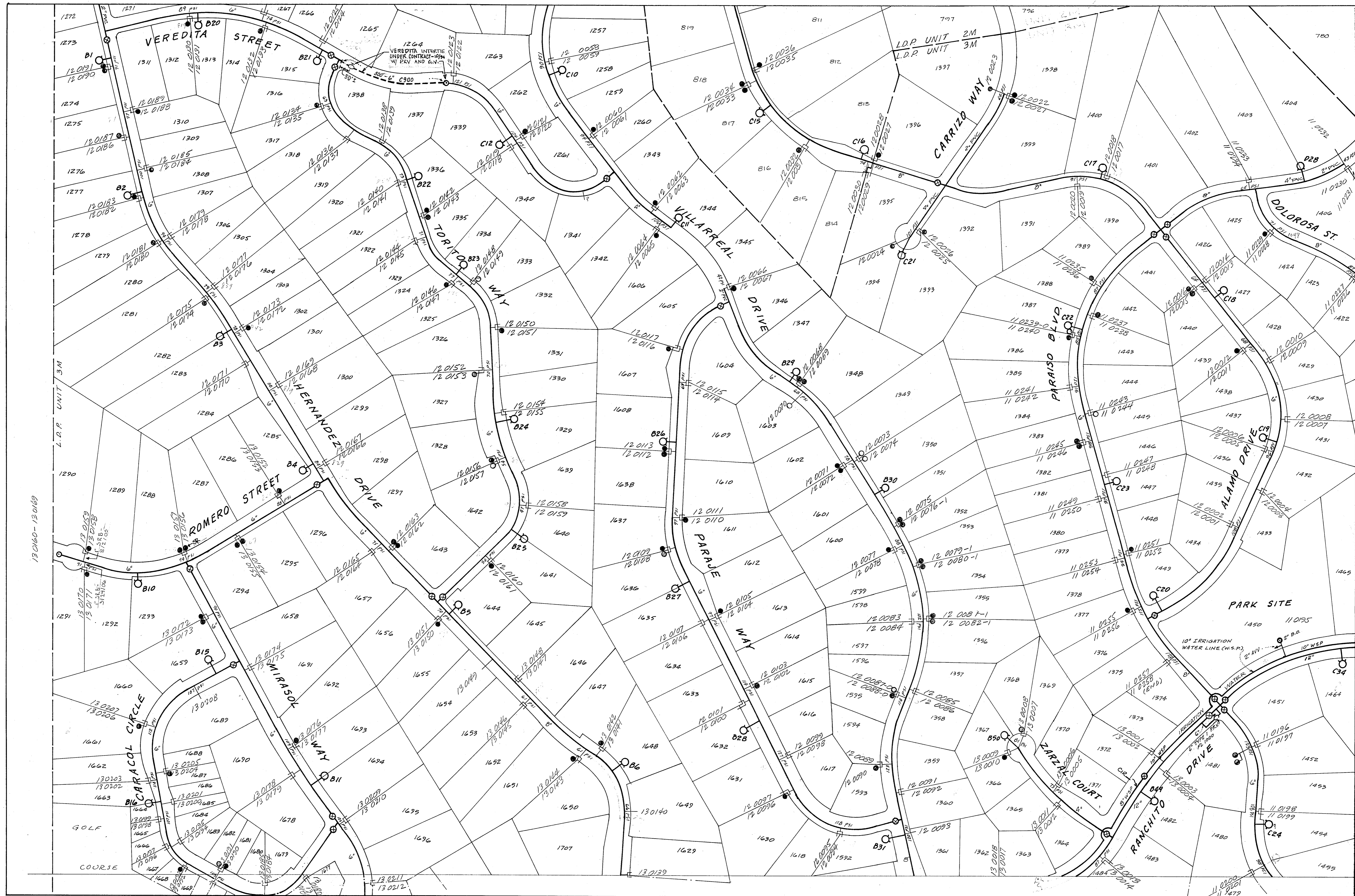
SCALE: 1" = 100'

REVISIONS:

NO.	DATE	DESCRIPTION
1	3/74	GENERAL-UPDATE
2	3/74	ADD WORKSHEET NOS.
3	3/74	ADD WORKSHEET NOS.

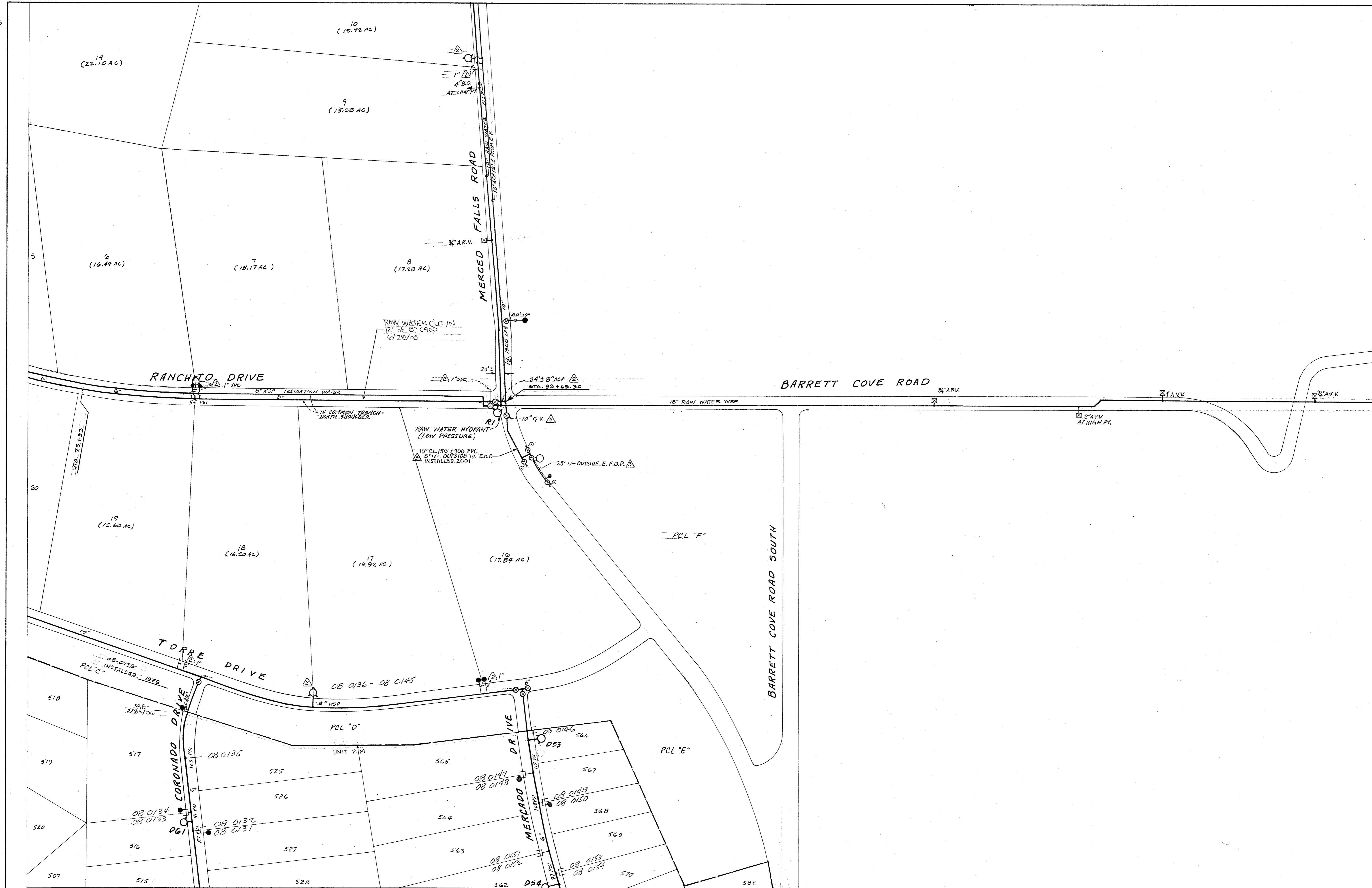
(15.59 AC.)

(16.56 AC.)

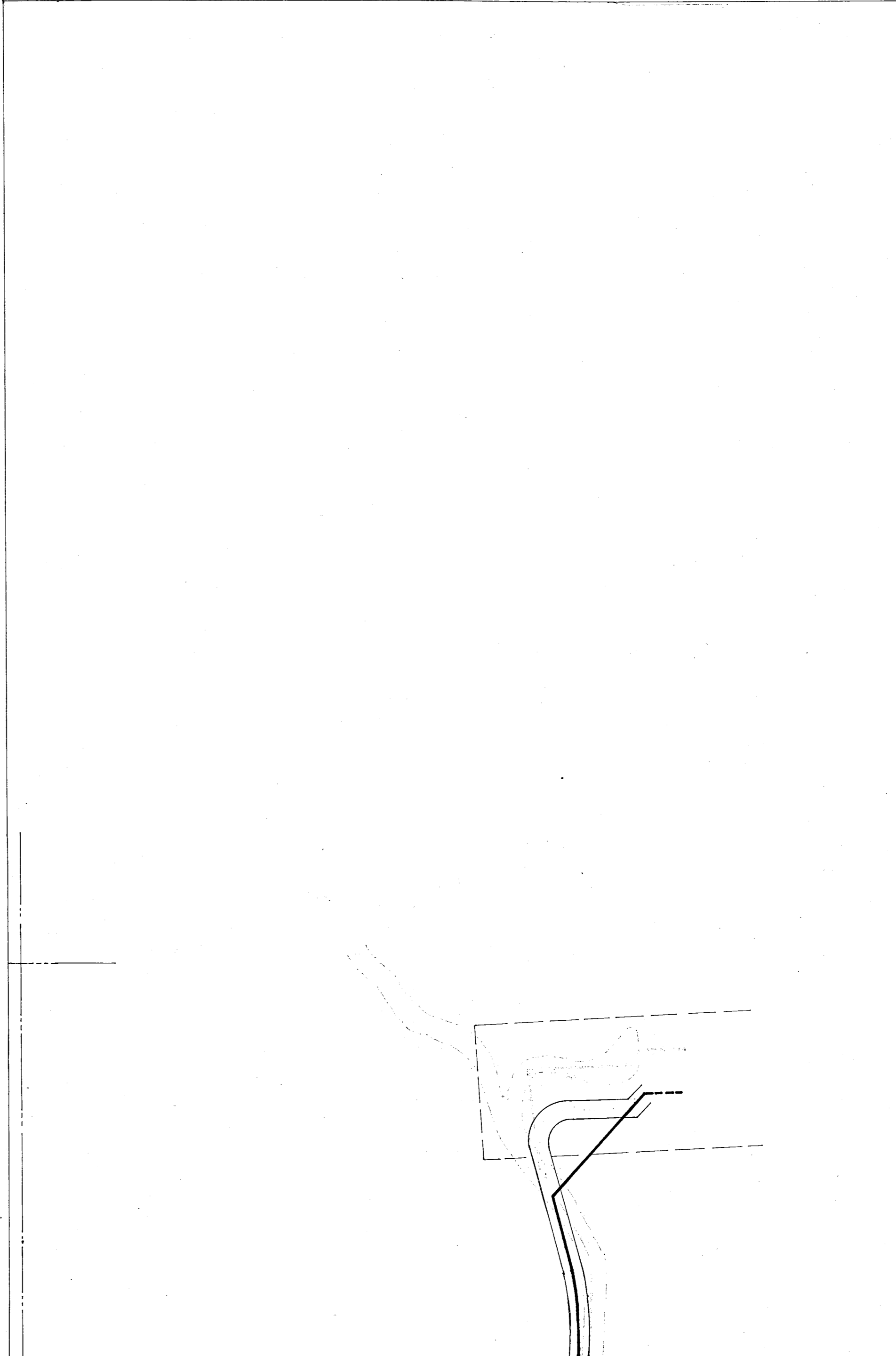
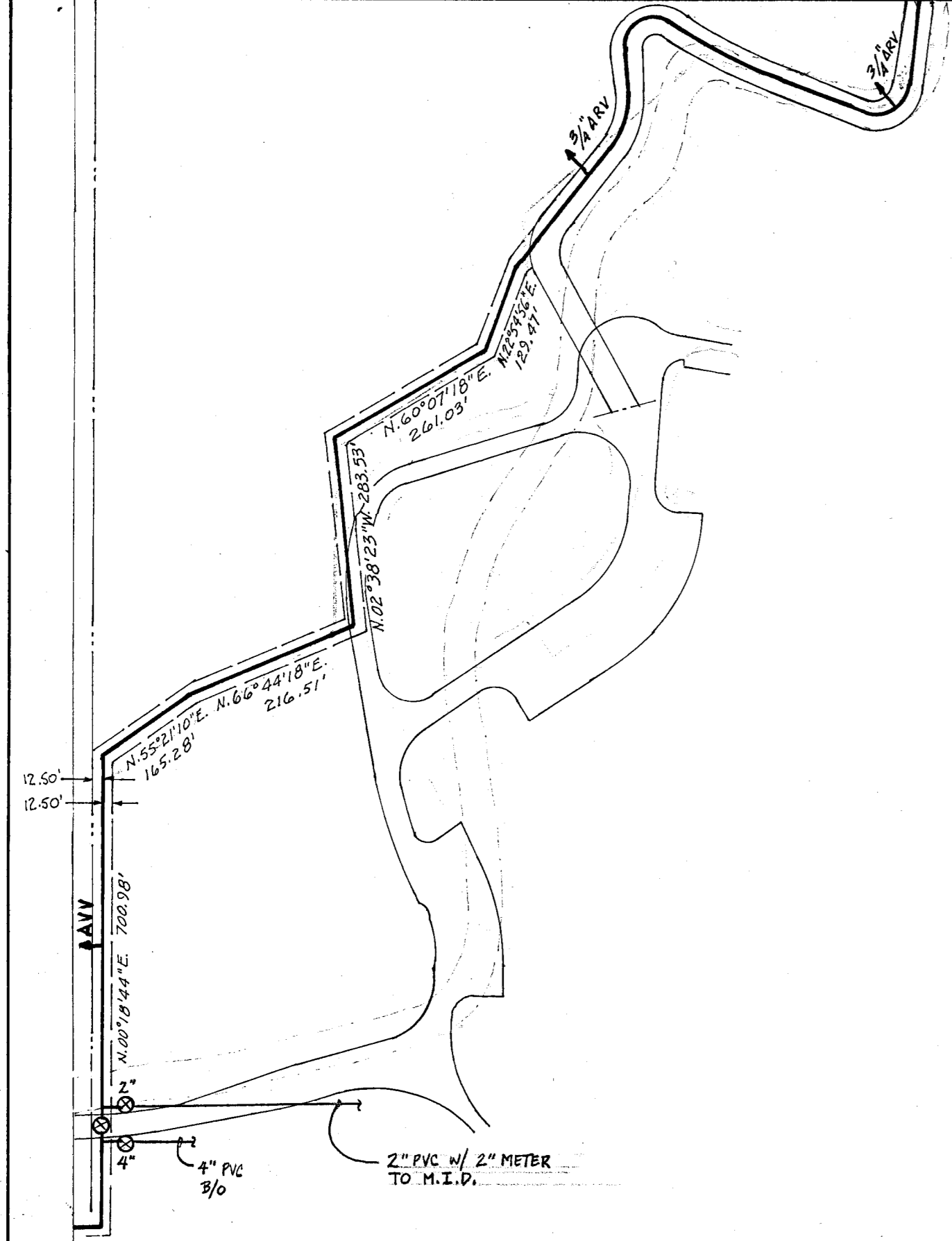


130160-130169

NO. 2273-122 DATE 5/14		NO. 1094 GENERAL-UPDATE DATE 12/27		NO. 806 GENERAL-UPDATE DATE 12/27		NO. 806 GENERAL-UPDATE DATE 12/27	
DRAWN BY 35		CHECKED BY 35		DRAWN BY 35		DRAWN BY 35	
RECORD D. 99.30		APP'D. 12/27		REVISION 12/27		REVISION 12/27	
INDEX MAP REF. 2273-122		SCALE		SCALE		SCALE	
LOCATION		COUNTY		SECTION		TWP.	
LAKE DON PEDRO		SANTA BARBARA		36		35	
COMMUNITY SERVICES DISTRICT							
WATER DISTRIBUTION SYSTEM							
K-3							



K-5 1" = 100' 1" = 100' 1" = 100'	LAKE DON PEDRO COMMUNITY SERVICES DISTRICT WATER DISTRIBUTION SYSTEM			LOCATION TWP. 35 RANGE 12 SECTION 2728 COUNTY MERCED INDEX MAP REF. D-279-A1		NO. 272-A24 DATE 3/74 DRAWN BY RECD. D.		CHECKED GAB APP. D.		SCALE 1" = 100'	
	TOBA GENERAL UPDATE 11/01 1/07 1/07			GBA 005 103		GENERAL UPDATE PARCEL EXTENSION REVISIONS		Binkley Associates 17400 BENTLEY WAY, SUITE 201, CALIFORNIA 95131			



K-6

**LAKE DON PEDRO
COMMUNITY SERVICES DISTRICT
WATER DISTRIBUTION SYSTEM**



LOCATION
TWP. RANGE 35 / 2E 26
COUNTY MARICOPA
INDEX MAP REF. D 272 A1

NO. D 272 A 25
DRAWN / DF
RECOM. D. / CD
DATE 3/74
CHECKED / GRS
APP. D. /

8/06 GENERAL-UPDATE DJP
10/94 GENERAL-UPDATE GRB
4/77 4/22 5/11 1/25/01
NO. DATE REVISION APPD.

Binkley Associates
CONSULTING ENGINEERS
214 BROADWAY, SUITE 200
PHOENIX, ARIZONA 85004



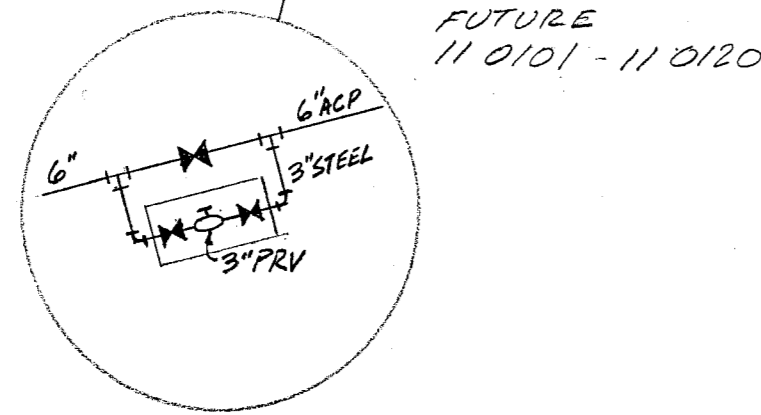
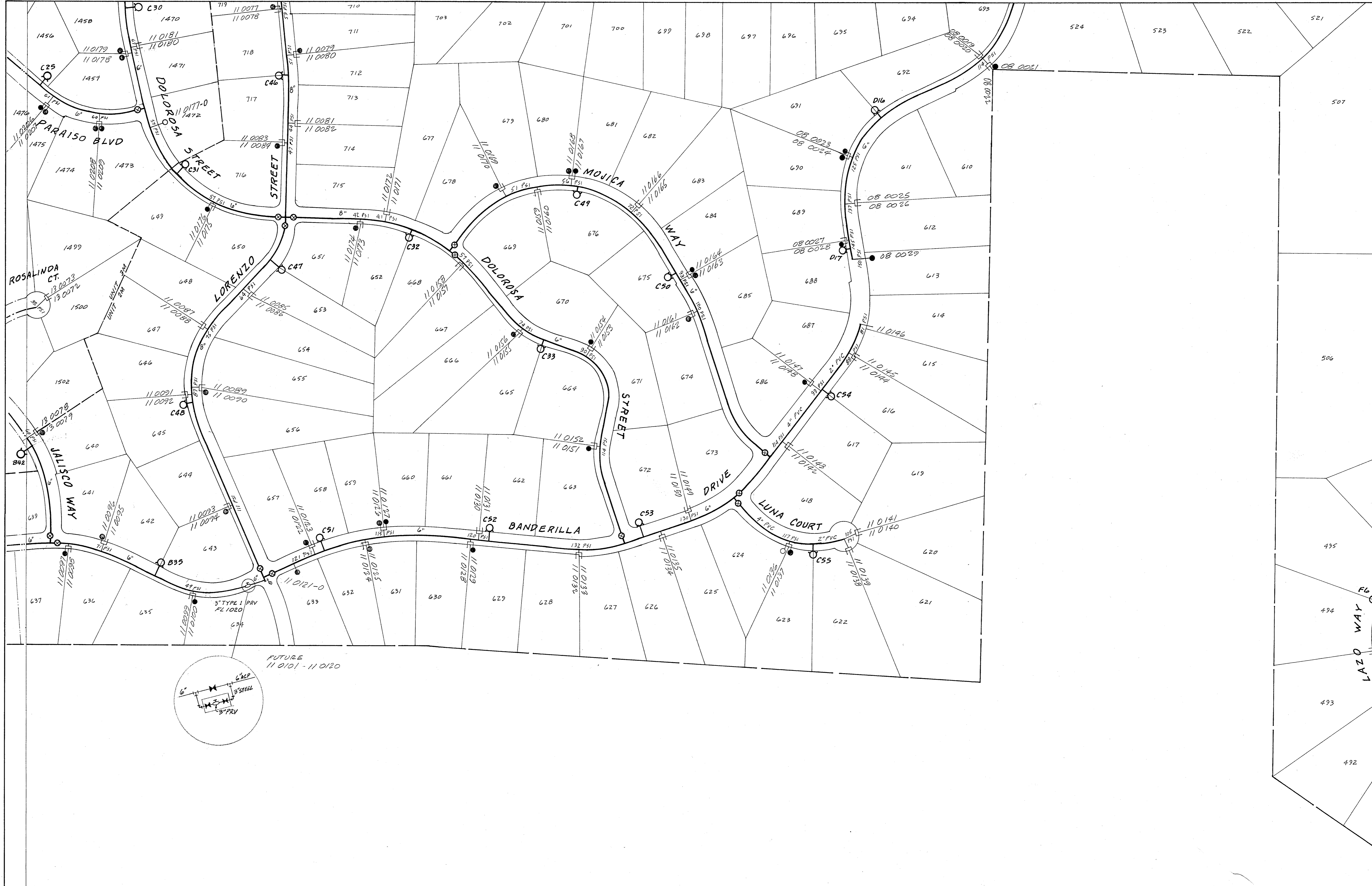
TOWNHOUSES DETAIL B
SCALE 1" = 100'

TOWNHOUSES DETAIL A
SCALE 1" = 100'

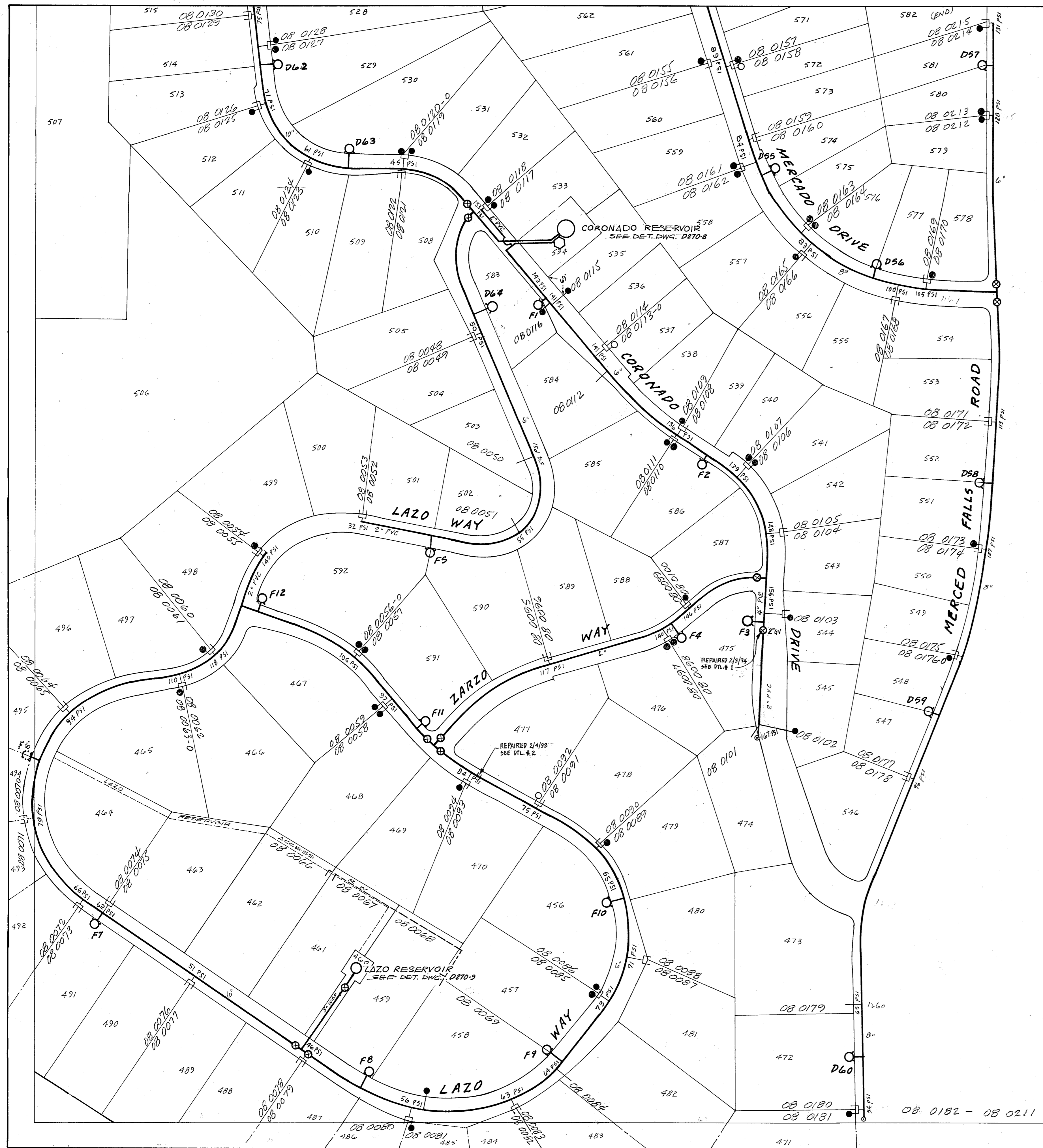
<p>L-3</p>		<p>K3 K4 L4</p>	
<p>LAKE DON PEDRO COMMUNITY SERVICES DISTRICT WATER DISTRIBUTION SYSTEM</p>			
<p>INDEX MAP REF. D279 A1</p>		<p>LOCATION</p>	
TWP.	RANGE	SECTION	COUNTY
35	15E	29,30,31,32	MARIPOSA
DWG.#	DATE	DATE	DATE
D279A26	3/74	3/04	10/04
DRAWN: DF	CHECKED: GRB	RECORD: GRB	APP'D:
<p>DATE: 3/74</p>			
<p>GENERAL - UPDATE</p>			
<p>GENERAL - UPDATE</p>			
<p>ADD. F.H. NRS.</p>			
<p>REVISIONS</p>			
<p>NO. DATE REVISION</p>			
4	8/06	GENERAL - UPDATE	DJP
3	3/04	GENERAL - UPDATE	GRB
2	10/04	GENERAL - UPDATE	GRB
1	6/77	ADD. F.H. NRS.	GRB

DWG.# D279A26 DATE: 3/74
 DRAWN: DF CHECKED: GRB
 RECORD: GRB APP'D:
 SCALE 0 100 400

Binkley Associates
 CONSULTING ENGINEERS
 7246 SHAWN DRIVE • SAN JOSE • CALIFORNIA 95128 • (408) 257-9202



	LAKE DON PEDRO COMMUNITY SERVICES DISTRICT WATER DISTRIBUTION SYSTEM	
	NO. 2722.427 DATE 3/74 CHECKED 4/68 DRAWN 2/74 RECORDED APP'D.	808 GENERAL-UPDATE 1094 GENERAL-UPDATE 1 6/77 222 274 2825- NO DATE REVISION 1 6/77 222 274 2825- NO DATE REVISION
	TWP. RANGE SECTION COUNTY 35 7SE R22S3E3S INMARIPOSA	INDEX MAP REF. 2, 279, 41 SCALE
	L-4 K3 K4 K5 L3 L4 L5	Binkley Associates <small>INCORPORATED - CIVIL ENGINEERS - CALIFORNIA LICENSE NO. 45678</small>



LEGEND

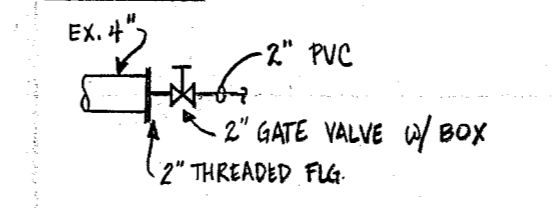
- FIRE HYDRANT AND NUMBER: DRESSER #300 "TRAFFIC" DRY BARREL W/4" DRESSER #450 F X ACP BUTTERFLY VALVE AND LATERAL (6" F X ACP BFV AND LATERAL ON 6" AND LARGER MAINS).
- LINE SIZE ACP END DRESSER 450 BUTTERFLY VALVE.
- SINGLE SERVICE - 3/4" PE PIPE.
- DUAL SERVICE - 1" PE PIPE WITH FORD #2 CM BRANCH.
- ACTIVE SERVICE.
- AUTOMATIC AIR RELEASE VALVE.
- 2" BLOW-OFF PIPE AND VALVE AT END OF MAIN.
- METER REMOVED

NOTE:

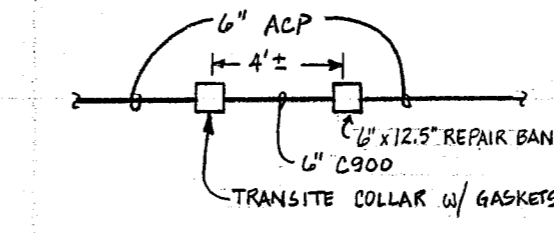
1. ALL TREATED WATER MAINS ARE CLASS 150 ACP UNLESS OTHERWISE NOTED. 2" AND 4" PVC PIPE IS CLASS 160 SDR 26 RUBBER RING.
2. ALL SERVICES ARE HIGH DENSITY POLYETHYLENE (PE) IRON PIPE SIZE WITH PACK JOINT CONNECTIONS USING INSERT STIFFENERS.
3. CORP STOPS ARE DRESSER STYLE 193 GALVANIZED QUIKTAP ON ACP MAINS. JH "HEAVY TAPPED COUPLING" IS USED ON 4" PVC, AND DRESSER STYLE 194 GALVANIZED SADDLE IS USED ON 2" PVC WITH FORD PACK JOINT CORP STOP.
4. 1981 KASSABAUM EXTENSION (INDICATED BY ON SHEETS J5, K4, K5) NOT CHECKED OR APPROVED BY BINKLEY ASSOCIATES, AND SPECIFICATIONS OF INSTALLED VALVES, HYDRANTS, AND SERVICE MATERIALS ARE NOT KNOWN.

SRB - # SERVICE REPAIR BAND - DATE
 CIR - # - # CUT IN MAIN REPAIR - DATE - LENGTH OF CUT IN
 SR - # SERVICE ENTIRELY REPLACED BETWEEN TAPPING SADDLE AND METER - DATE
 MRB - # MAIN REPAIR BAND - DATE (STAINLESS STEEL UNLESS OTHERWISE NOTED)

DETAIL # 1



DETAIL # 2



Binkley Associates <small>INCORPORATED</small>																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">NO. 0275-2-28</td> <td style="width: 25%;">DATE 3/74</td> <td style="width: 25%;">800 GENERAL-UPDATE</td> <td style="width: 25%;">DIP</td> </tr> <tr> <td>DRAWN DF</td> <td>CHECKED GRS</td> <td>1094 GENERAL-UPDATE</td> <td>GRB</td> </tr> <tr> <td>RECORD</td> <td>APP'D.</td> <td>7 6/77 APP. F.M. 1/26/7</td> <td>1/28</td> </tr> <tr> <td>0</td> <td>100</td> <td>INC/DATE</td> <td>REVISION</td> </tr> <tr> <td colspan="2"></td> <td colspan="2" style="text-align: center;">SCALE</td> </tr> </table>	NO. 0275-2-28	DATE 3/74	800 GENERAL-UPDATE	DIP	DRAWN DF	CHECKED GRS	1094 GENERAL-UPDATE	GRB	RECORD	APP'D.	7 6/77 APP. F.M. 1/26/7	1/28	0	100	INC/DATE	REVISION			SCALE		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">LOCATION</td> </tr> <tr> <td style="width: 50%;">TWP. RANGE 15E</td> <td style="width: 50%;">COUNTY 27E2334</td> </tr> <tr> <td colspan="2" style="text-align: center;">INDEX MAP REF. 0275-2-1</td> </tr> </table>	LOCATION		TWP. RANGE 15E	COUNTY 27E2334	INDEX MAP REF. 0275-2-1	
NO. 0275-2-28	DATE 3/74	800 GENERAL-UPDATE	DIP																								
DRAWN DF	CHECKED GRS	1094 GENERAL-UPDATE	GRB																								
RECORD	APP'D.	7 6/77 APP. F.M. 1/26/7	1/28																								
0	100	INC/DATE	REVISION																								
		SCALE																									
LOCATION																											
TWP. RANGE 15E	COUNTY 27E2334																										
INDEX MAP REF. 0275-2-1																											
LAKE DON PEDRO COMMUNITY SERVICES DISTRICT WATER DISTRIBUTION SYSTEM																											
L-5		K41 K5 K6 24																									

Appendix B

Service Line Replacements

Service Connection - Replacement Status Report (203 records)

Service ID	Type	Diameter (in)	Replaced?	Date	NOTES
S-517	Dual	1	Yes	2020-02-24	Replaced service line
S-130	Dual	1	Yes	2020-01-08	Replaced service line
S-1024	Dual	1	Yes	2019-08-27	Replaced 42ft of poly pipe and depth of 6" AC main is 2.5ft deep
S-981	Dual	1	Yes	2019-08-26	Replaced all 40ft of leaking line, 3.5ft deep @ main
S-18	Dual	1	Yes	2019-08-22	Replaced all 20ft of leaking service line, 2.5ft deep @ main
S-1506	Dual	1	Yes	2019-08-16	Replaced 40 ft of poly and depth of main is at 3ft
S-852	Dual	1	Yes	2019-08-15	Replaced 36ft of poly pipe, depth is at 6" main
S-86	Dual	1	Yes	2019-08-08	Replaced all 18ft of leaking service line, 4.5ft deep @ main
S-1640	Single	1	Yes	2019-07-31	Replaced all 43 ft of leaking service line, 2.5ft deep @ main
S-439	Dual	1	Yes	2019-07-26	Replaced all 12ft of leaking service, 2ft deep @ main
S-732	Dual	1	Yes	2019-07-25	Replaced all 30ft of leaking service line. 2.5ft deep @ main
S-663	Dual	1	Yes	2019-07-24	Replaced all 38ft of leaking service line. 2'5" deep @ main
S-1382	Dual	1	Yes	2019-07-03	Replaced 55ft of poly pipe and the depth of 8" main is @ 3.5ft
S-638	Dual	1	Yes	2019-06-17	18' of poly pipe replaced 2.5' depth
S-474	Dual	1	Yes	2019-05-09	2" main depth at 4ft / 50ft of 1" service line was replaced
S-58	Dual	1	Yes	2019-05-08	Replaced all 20 ft of leaking service line, 4ft deep @ Main
S-1317	Dual	1	Yes	2019-04-09	Main @ 3'5" depth, 27' of 1" IPS poly line replaced
S-162	Dual	1	Yes	2019-04-02	4" PVC depth of main 2.5ft and the length of Poly replaced is 63 ft total
S-1059	Dual	1	Yes	2019-04-01	Main depth @ 2.5ft and the length replaced of service line is 38.5ft. N
S-229	Dual	1	Yes	2019-03-14	Main @ 3'2", 3ft of 1" IPS poly line replaced
S-343	Dual	1	Yes	2019-01-11	Replaced 44ft of Poly Pipe (1" poly) depth of main is 2.5'
S-1277	Dual	1	Yes	2019-01-10	12ft of new 1" IPS poly line replaced / Main at 2'8"
S-588	Dual	3/4	Yes	2019-01-08	6" main 10 ft replacement of main. Service line replaced 24ft and depth
S-400	Dual	1	Yes	2018-12-11	23ft of new 1" IPS poly line installed / Main @ 2'8" Depth
S-1183	Dual	1	Yes	2018-12-03	
S-495	Dual	1	Yes	2018-11-01	Replaced all 32' of leaking service line. 3.5' deep @ main
S-148	Dual	1	Yes	2017-10-24	
S-293	Dual	1	Yes	2017-10-20	

Service ID	Type	Diameter (in)	Replaced?	Date	NOTES
S-1276	Dual	1	Yes	2017-10-17	
S-1582	Single	3/4	Yes	2017-10-13	
S-1581	Single	3/4	Yes	2017-10-13	
S-152	Dual	1	Yes	2017-10-11	
S-665	Dual	1	Yes	2017-10-04	
S-636	Single	3/4	Yes	2017-10-03	
S-1116	Single	3/4	Yes	2017-09-29	
S-1286	Dual	1	Yes	2017-09-28	
S-380	Dual	1	Yes	2017-09-28	
S-1445	Dual	1	Yes	2017-09-27	
S-1479	Dual	1	Yes	2017-09-26	
S-1091	Dual	1	Yes	2017-09-21	
S-561	Dual	1	Yes	2017-09-08	
S-893	Dual	1	Yes	2017-09-07	
S-334	Dual	1	Yes	2017-09-05	
S-674	Dual	1	Yes	2017-08-25	
S-1292	Dual	1	Yes	2017-08-02	
S-1555	Dual	1	Yes	2017-07-31	
S-1275	Dual	1	Yes	2017-07-26	
S-1588	Single	1	Yes	2017-07-24	
S-953	Dual	1	Yes	2017-07-11	
S-342	Dual	1	Yes	2017-07-10	
S-1449	Dual	1	Yes	2017-07-10	
S-548	Dual	1	Yes	2017-07-07	
S-1452	Dual	1	Yes	2017-07-07	
S-1191	Dual	1	Yes	2017-07-03	
S-551	Dual	1	Yes	2017-06-28	
S-331	Dual	1	Yes	2017-06-27	
S-1421	Dual	1	Yes	2017-06-26	

Service ID	Type	Diameter (in)	Replaced?	Date	NOTES
S-1195	Dual	1	Yes	2017-06-15	
S-193	Dual	1	Yes	2017-06-15	
S-653	Single	3/4	Yes	2017-06-14	
S-875	Dual	1	Yes	2017-06-14	
S-1262	Dual	1	Yes	2017-06-13	
S-1379	Dual	1	Yes	2017-06-13	
S-1615	Single	3/4	Yes	2017-06-12	
S-849	Dual	1	Yes	2017-06-12	
S-398	Dual	1	Yes	2017-06-07	
S-1247	Dual	1	Yes	2017-06-05	
S-1251	Dual	1	Yes	2017-06-05	
S-1060	Dual	1	Yes	2017-05-23	
S-1591	Dual	1	Yes	2017-05-21	
S-798	Dual	1	Yes	2017-05-19	
S-949	Dual	1	Yes	2017-05-18	
S-332	Dual	1	Yes	2017-05-09	
S-868	Dual	1	Yes	2017-05-05	
S-165	Dual	1	Yes	2017-05-03	
S-645	Dual	1	Yes	2017-05-02	
S-76	Dual	1	Yes	2017-05-01	
S-755	Dual	1	Yes	2017-04-28	
S-848	Dual	1	Yes	2017-04-26	
S-1410	Dual	1	Yes	2017-04-24	
S-1416	Dual	1	Yes	2017-04-14	
S-1433	Dual	1	Yes	2017-04-10	
S-421	Dual	1	Yes	2017-03-30	
S-475	Dual	1	Yes	2017-03-29	
S-319	Dual	1	Yes	2017-03-28	
S-156	Single	3/4	Yes	2017-03-08	

Service ID	Type	Diameter (in)	Replaced?	Date	NOTES
S-208	Dual	1	Yes	2015-10-27	Replaced service line
S-218	Dual	1	Yes	2015-10-23	Replaced service line
S-219	Dual	1	Yes	2015-10-22	Replaced service line
S-1485	Dual	1	Yes	2015-10-21	Replaced service line
S-1066	Dual	1	Yes	2015-10-20	Replaced service line
S-246	Single	3/4	Yes	2015-10-19	Replaced service line
S-1270	Dual	1	Yes	2015-10-07	Replaced service line
S-1268	Dual	1	Yes	2015-10-06	Replaced service line
S-881	Dual	1	Yes	2015-10-01	Replaced service line
S-658	Dual	1	Yes	2015-09-28	Replaced service line
S-1092	Dual	1	Yes	2015-09-24	Replaced service line
S-494	Dual	1	Yes	2015-09-16	Replaced service line
S-492	Dual	1	Yes	2015-09-16	Replaced service line
S-1556	Dual	1	Yes	2015-09-15	Replaced service line
S-1045	Dual	1	Yes	2015-09-10	Replaced service line
S-1617	Single	3/4	Yes	2015-09-03	
S-491	Dual	1	Yes	2015-09-02	Replaced service line
S-417	Dual	1	Yes	2015-08-31	Replaced Service
S-151	Dual	1	Yes	2015-08-27	Replaced Service
S-873	Dual	1	Yes	2015-08-19	Replaced Service
S-164	Dual	1	Yes	2015-08-10	Replaced Service
S-535	Dual	1	Yes	2015-08-04	Replaced Service
S-467	Dual	1	Yes	2015-08-03	Replaced Service
S-1086	Dual	1	Yes	2015-07-30	Replaced Service
S-1562	Single	3/4	Yes	2015-07-29	Replaced Service
S-766	Dual	1	Yes	2015-07-28	Replaced Service
S-1563	Single	3/4	Yes	2015-07-27	Replaced Service
S-328	Dual	1	Yes	2015-07-23	Replaced Service
S-1405	Dual	1	Yes	2015-06-19	

Service ID	Type	Diameter (in)	Replaced?	Date	NOTES
S-586	Single	3/4	Yes	2015-06-12	
S-153	Dual	1	Yes	2015-06-11	
S-434	Dual	1	Yes	2015-06-10	
S-670	Dual	1	Yes	2015-06-04	
S-1237	Dual	1	Yes	2015-06-03	
S-1284	Dual	1	Yes	2015-06-02	
S-351	Dual	1	Yes	2015-05-27	
S-133	Dual	1	Yes	2015-05-26	
S-1378	Dual	1	Yes	2015-05-22	
S-1061	Dual	1	Yes	2015-04-15	
S-1120	Dual	1	Yes	2015-04-14	
S-651	Dual	1	Yes	2015-04-03	
S-748	Dual	1	Yes	2015-04-01	
S-637	Dual	1	Yes	2015-03-23	
S-1483	Dual	1	Yes	2015-03-23	
S-511	Dual	1	Yes	2015-02-18	
S-757	Dual	1	Yes	2015-02-12	
S-9	Dual	1	Yes	2015-02-11	
S-1518	Dual	1	Yes	2015-02-09	
S-299	Dual	1	Yes	2014-12-22	
S-788	Dual	1	Yes	2014-12-16	
S-1540	Dual	1	Yes	2014-12-05	
S-1606	Single	1	Yes	2014-11-21	
S-442	Dual	1	Yes	2014-11-21	
S-1385	Dual	1	Yes	2014-11-05	
S-978	Dual	1	Yes	2014-10-27	
S-324	Dual	1	Yes	2014-10-21	
S-385	Dual	1	Yes	2014-10-15	
S-831	Dual	1	Yes	2014-10-07	

Service ID	Type	Diameter (in)	Replaced?	Date	NOTES
S-1123	Dual	1	Yes	2014-10-06	
S-1497	Single	3/4	Yes	2014-10-01	
S-1442	Dual	1	Yes	2014-10-01	
S-789	Dual	1	Yes	2014-09-22	
S-574	Dual	1	Yes	2014-09-11	
S-406	Dual	1	Yes	2014-09-05	
S-1444	Dual	1	Yes	2014-08-26	
S-756	Dual	1	Yes	2014-08-19	
S-1381	Dual	1	Yes	2014-08-08	
S-485	Single	3/4	Yes	2014-07-24	
S-1590	Single	3/4	Yes	2014-07-24	
S-142	Dual	1	Yes	2014-07-15	
S-1263	Dual	1	Yes	2014-07-09	
S-1266	Dual	1	Yes	2014-07-08	
S-1559	Dual	1	Yes	2014-06-30	
S-1495	Dual	1	Yes	2014-06-30	
S-54	Dual	1	Yes	2014-05-28	
S-422	Dual	1	Yes	2014-05-21	
S-247	Dual	1	Yes	2014-04-02	
S-40	Dual	1	Yes	2014-03-11	
S-1364	Dual	1	Yes	2014-03-10	
S-268	Dual	1	Yes	2014-02-03	
S-42	Dual	1	Yes	2014-01-21	
S-224	Dual	1	Yes	2014-01-14	
S-62	Dual	1	Yes	2014-01-08	
S-92	Dual	1	Yes	2014-01-07	
S-1538	Single	3/4	Yes	2014-01-06	
S-2	Dual	1	Yes	2013-12-10	
S-77	Dual	1	Yes	2013-11-01	

Service ID	Type	Diameter (in)	Replaced?	Date	NOTES
S-432	Dual	1	Yes	2013-10-02	Replaced 1" service line
S-879	Dual	1	Yes	2013-10-01	Replaced 1" service line
S-1395	Dual	1	Yes	2013-09-10	Replaced 1" service line
S-1661	Single	3/4	Yes	2013-09-04	Replaced 1" service line
S-869	Dual	1	Yes	2013-08-22	Replaced 1" service line
S-898	Dual	1	Yes	2013-08-19	Replaced 1" service line
S-141	Dual	1	Yes	2013-08-06	Replaced 1" service line
S-1446	Dual	1	Yes	2013-08-02	Replaced 1" service line
S-1484	Dual	1	Yes	2013-08-01	Replaced 1" service line
S-1396	Dual	1	Yes	2013-07-15	Replaced service line
S-500	Dual	1	Yes	2013-07-12	Replaced service line
S-896	Dual	1	Yes	2013-06-18	Replaced 1" service line
S-895	Dual	1	Yes	2013-06-17	Replaced 1" service line
S-374	Dual	1	Yes	2013-05-09	Replaced 1" service line
S-213	Single	3/4	Yes	2013-04-16	Replaced 1" service line
S-1662	Single	3/4	Yes	2013-03-13	Replaced 3/4" service line
S-80	Single	3/4	Yes	2013-03-12	Replaced 3/4" service line
S-93	Dual	1	Yes	2013-03-11	Replaced 1" service line
S-348	Dual	1	Yes	2013-03-04	Replaced 1" service line
S-478	Dual	1	Yes	2013-02-20	Replaced 1" service line
S-1448	Dual	1	Yes	2013-02-20	
S-1450	Dual	1	Yes	2013-02-19	
S-196	Dual	1	Yes	2013-02-14	Replaced 1" service line
S-1623	Dual	1	Yes	2013-02-11	Replaced 1" service line
S-362	Dual	1	Yes	2013-02-06	Replaced 1" service line
S-1583	Single	1	Yes	2006-07-08	
S-754	Dual	1	Yes		Replaced date unknwn
S-657	Dual	1	Yes		Replaced date unknwn
S-1293	Dual	1	Yes		Replaced date unknwn

Service ID	Type	Diameter (in)	Replaced?	Date	NOTES
S-567	Dual	1	Yes		Replaced date unkown

Appendix C
Pump #2 Improvement Project

PROJECT STAGING

PHASE I
 1. BEFORE DROUGHT CONDITIONS BEGIN: CONSTRUCT TANK AND BOOSTER PUMP STATION AT ELEVATION 880 AND TIE-IN.
 2. REPLACE 30 HP FLOAT PUMP, REFURBISH FLOAT

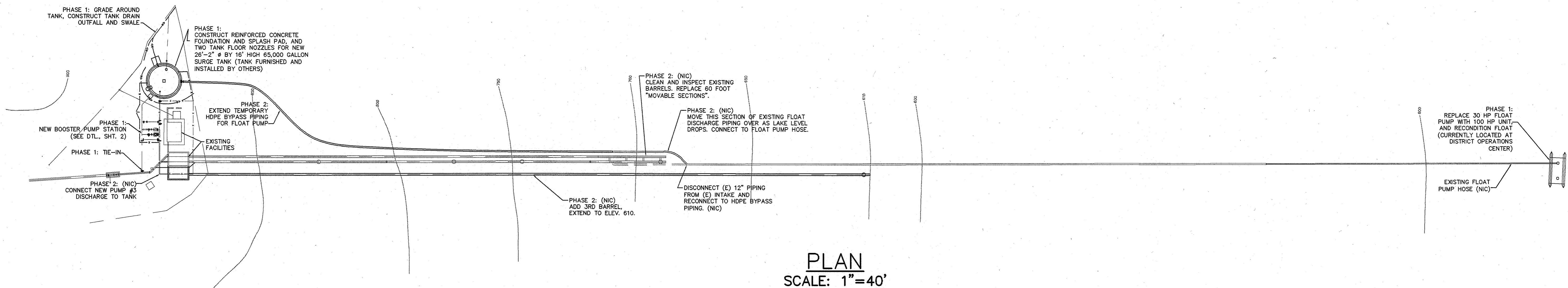
PHASE II:
 1. AS LAKE LEVEL DROPS: INSTALL FLOAT PUMP DISCHARGE LINE ON HILLSIDE AND CONNECT TO NEW TANK AT ELEV. 880.
 2. LAKE LEVEL FALLS BELOW ELEV. 700: REPLACE "MOVABLE SECTION" OF BOTH INTAKES (APPROX 60 FEET EACH). CLEAN AND INSPECT CONDITION OF EXISTING WELLS. CONSTRUCT UPPER PORTION OF 3RD BARREL.
 3. LAKE LEVEL DROPS TO ELEV. 610: CONSTRUCT LOWER PORTION OF THIRD BARREL AND INSTALL PUMP.

LAKE DON PEDRO COMMUNITY SERVICES DISTRICT LAKE McCLURE INTAKE IMPROVEMENTS PROJECT #02-01

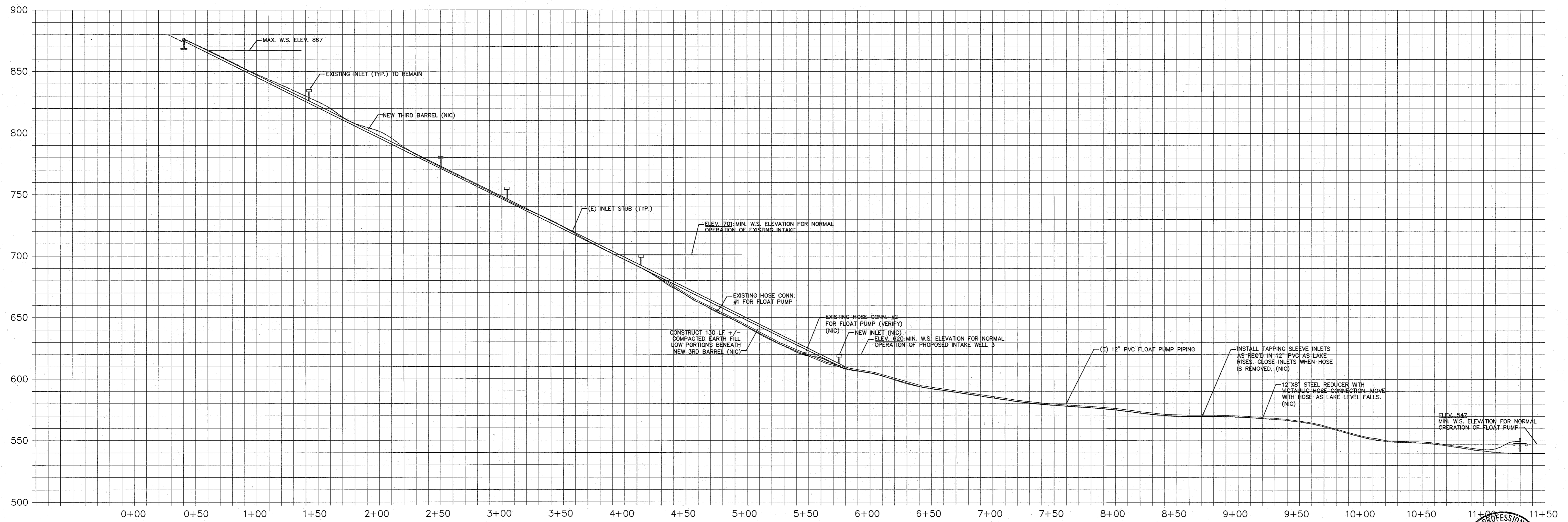
PHASE I MECHANICAL AND SITEWORK (ELECTRICAL UNDER SEPARATE CONTRACT)

PHASE I - SCOPE OF WORK

1. INSTALL REINFORCED CONCRETE TANK FOUNDATION.
2. INSTALL AND CONNECT BOOSTER PUMP STATION AND RELATED PIPING AND VALVING, INCLUDING ONE BOOSTER PUMP
3. SITE GRADING AND DRAINAGE, BASE ROCK SURFACING AND FENCING.
4. REPLACE 30 HORSEPOWER FLOAT PUMP AND REFURBISH FLOAT (SEE SPECIFICATIONS BOOKLET).



PLAN
 SCALE: 1"=40'



PROFILE
 HORIZ. AND VERT. SCALE: 1"=40'



REVISIONS	BY

Binkley Associates
 CONSULTING ENGINEERS
 7246 SHARON DRIVE • SAN JOSE • CALIFORNIA 95129 • (408) 257-9252

COVER SHEET

LAKE DON PEDRO
 COMMUNITY SERVICES DISTRICT
 LAKE McCLURE INTAKE IMPROVEMENTS
 PROJECT #02-01 - PHASE I

DATE:	7/3/02
SCALE:	AS SHOWN
DRAWN:	EAB
DWG.#	0840601
SHEET	1
OF	3 SHEETS

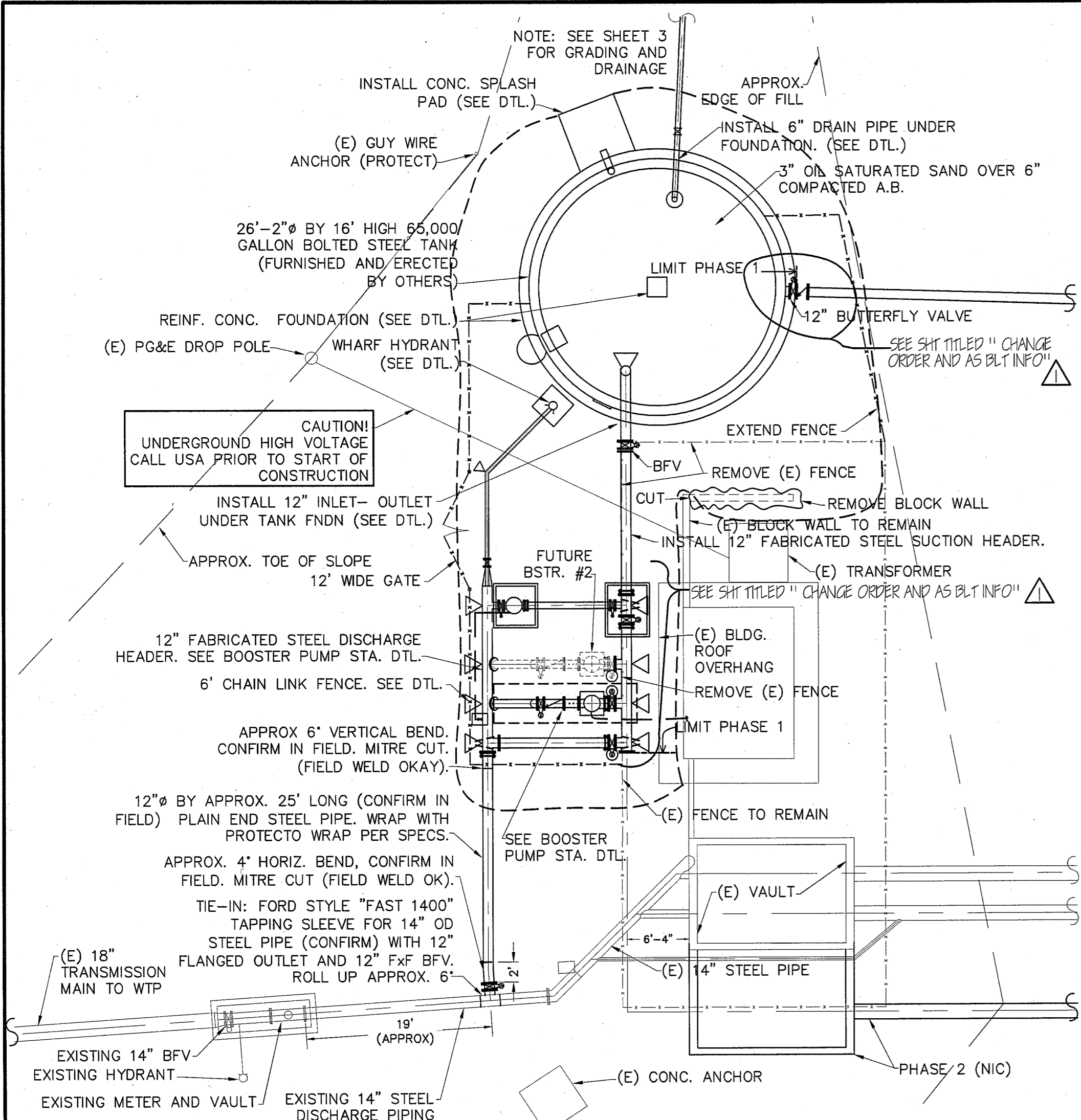
REVISIONS	BY
11/16/07	JR
CO+ AS BLT	

Binkley Associates
 CONSULTING ENGINEERS
 7246 SHAFER DRIVE • SAN JOSE • CALIFORNIA 95129 • (408) 257-9252

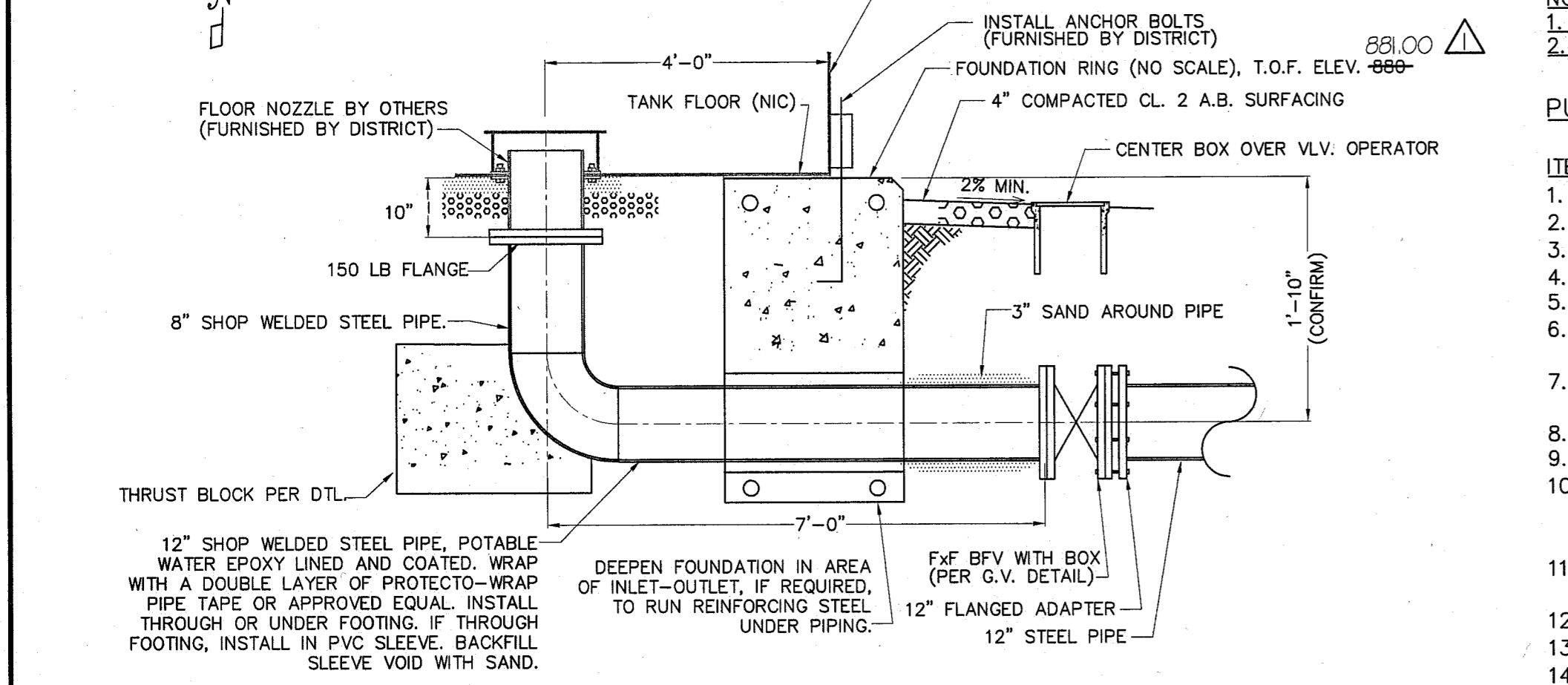
SITE PLAN
 AND DETAILS

LAKE DON PEDRO
 COMMUNITY SERVICES DISTRICT
 LAKE MCLURE INTAKE IMPROVEMENTS
 PROJECT #02-01 - PHASE I

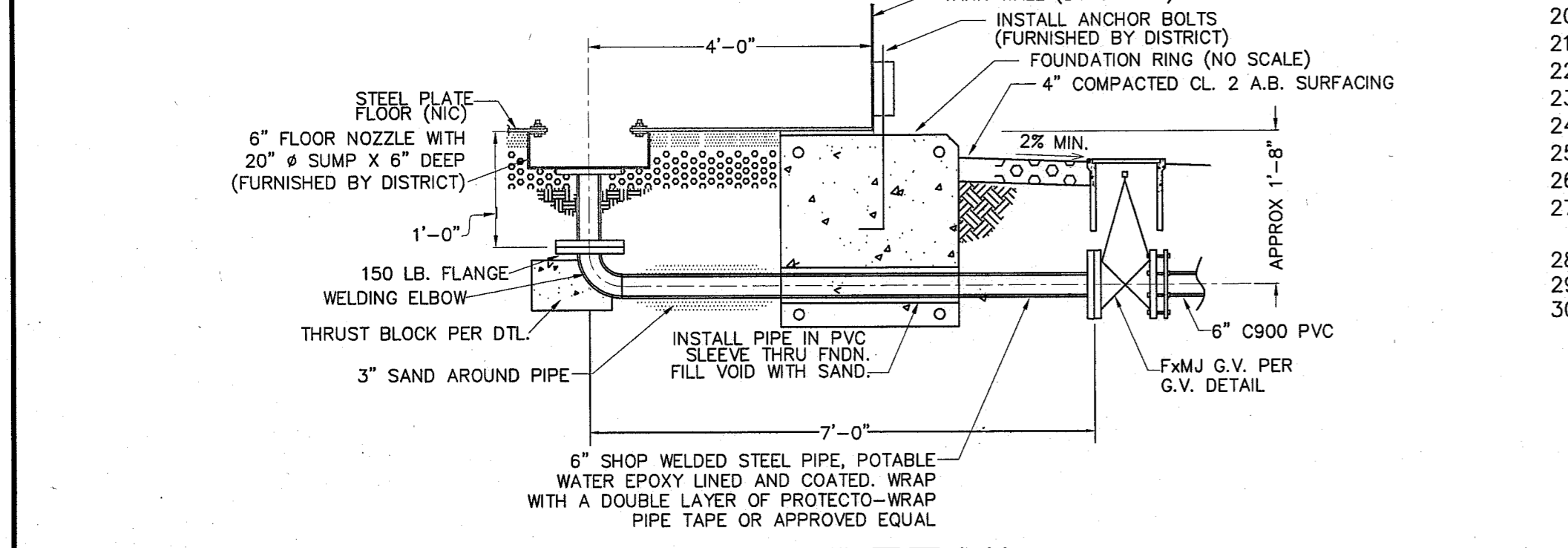
DATE:	7/3/02
SCALE:	AS SHOWN
DRAWN:	EAB
DWG.#:	0840601
SHEET	2
OF	3 SHEETS



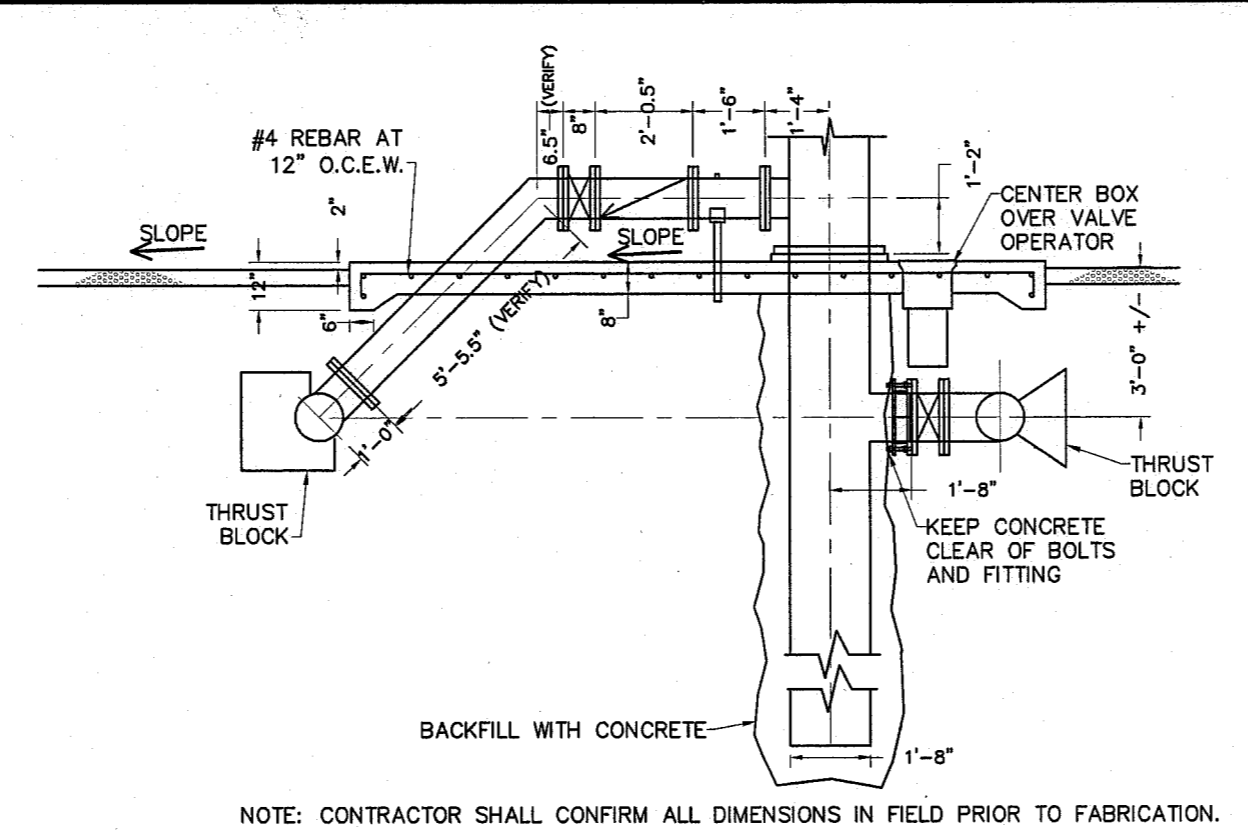
SITE PLAN
SCALE: 1"=10'



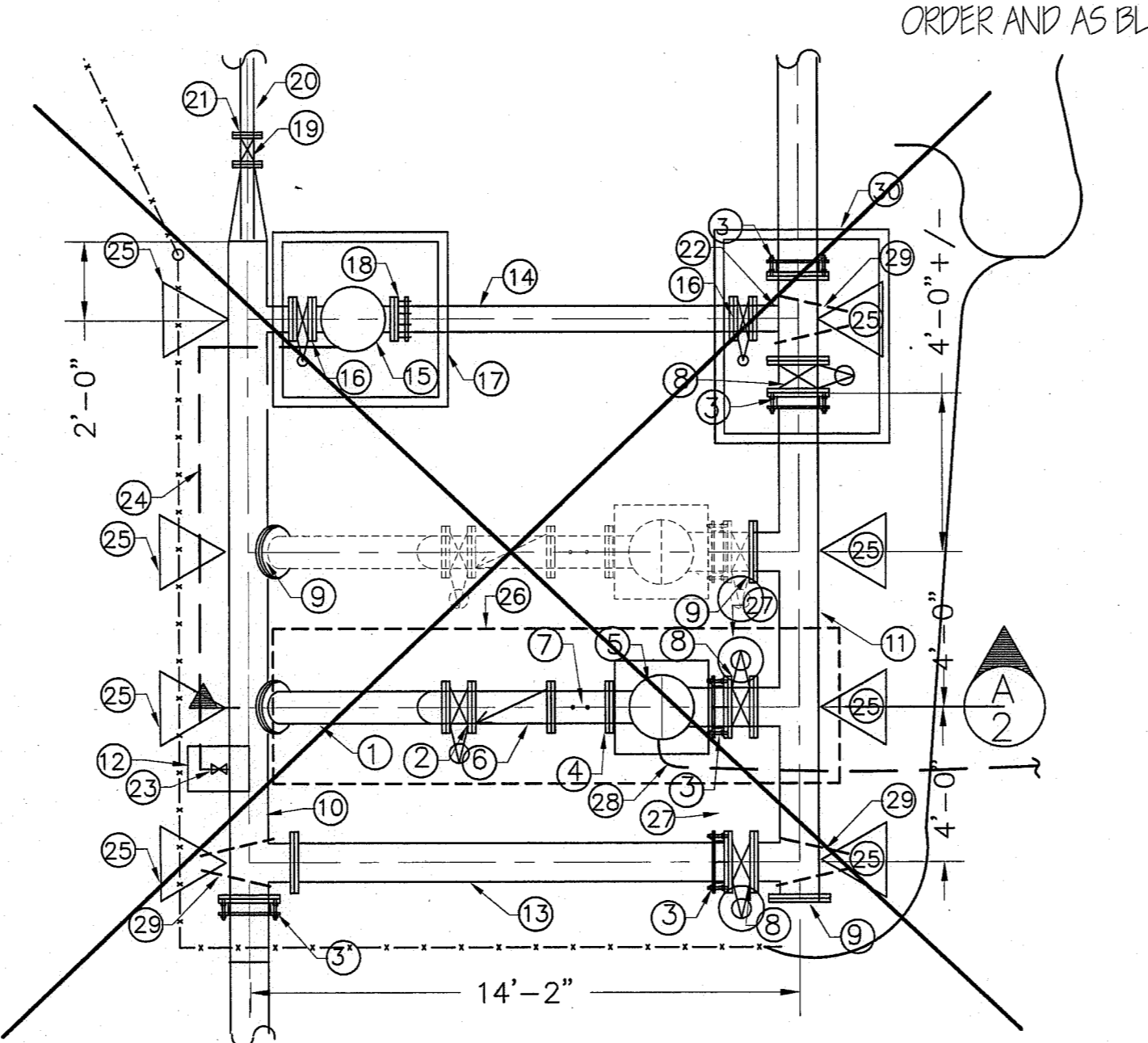
INLET-OUTLET DETAIL
SCALE: 1/2"=1'



DRAIN DETAIL
SCALE: 1/2"=1'



SECTION A
SCALE: 1/4"=1'



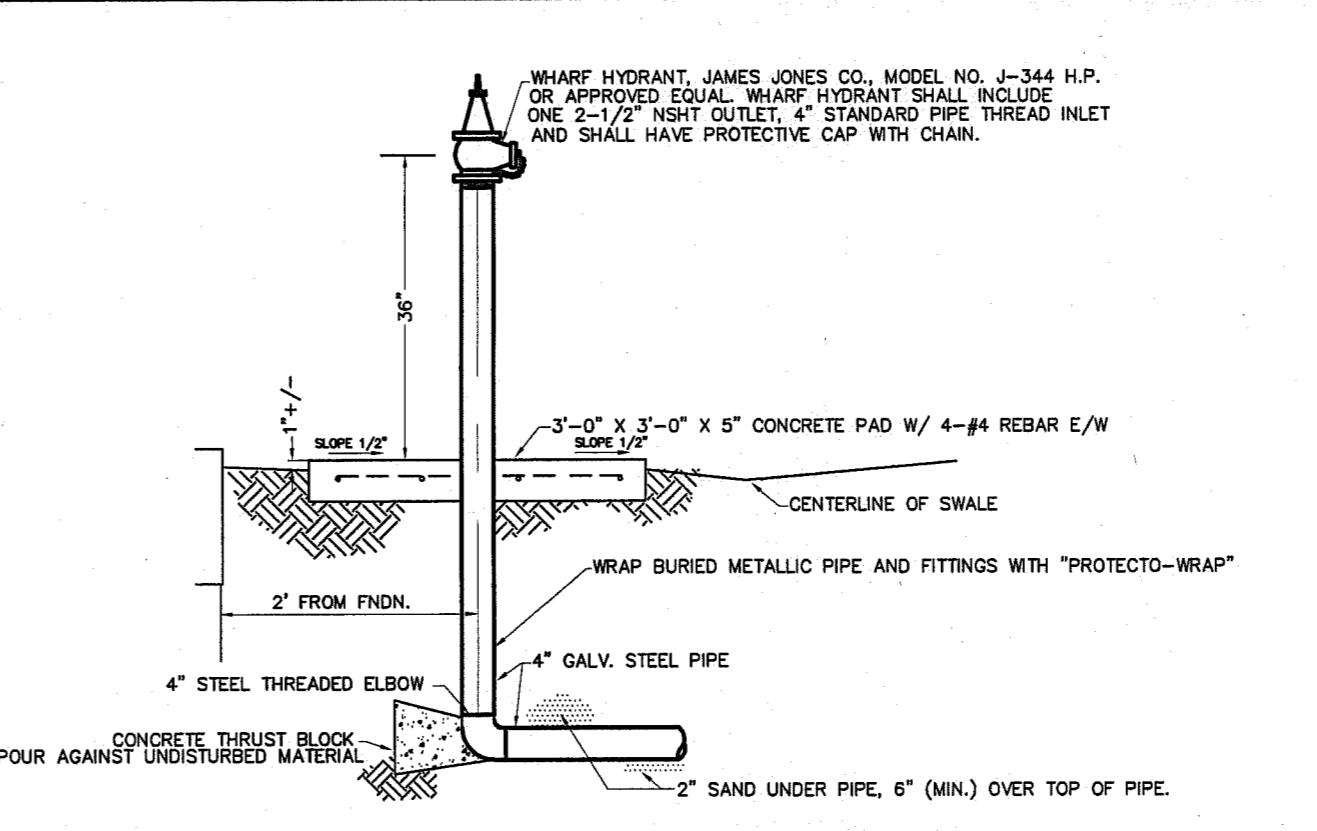
NOTE:
 1. CONTRACTOR SHALL CONFIRM ALL DIMENSIONS IN FIELD PRIOR TO FABRICATION OF STEEL PIPE.
 2. USE STAINLESS STEEL BOLTS AND NUTS

PUMP STATION BILL OF MATERIALS

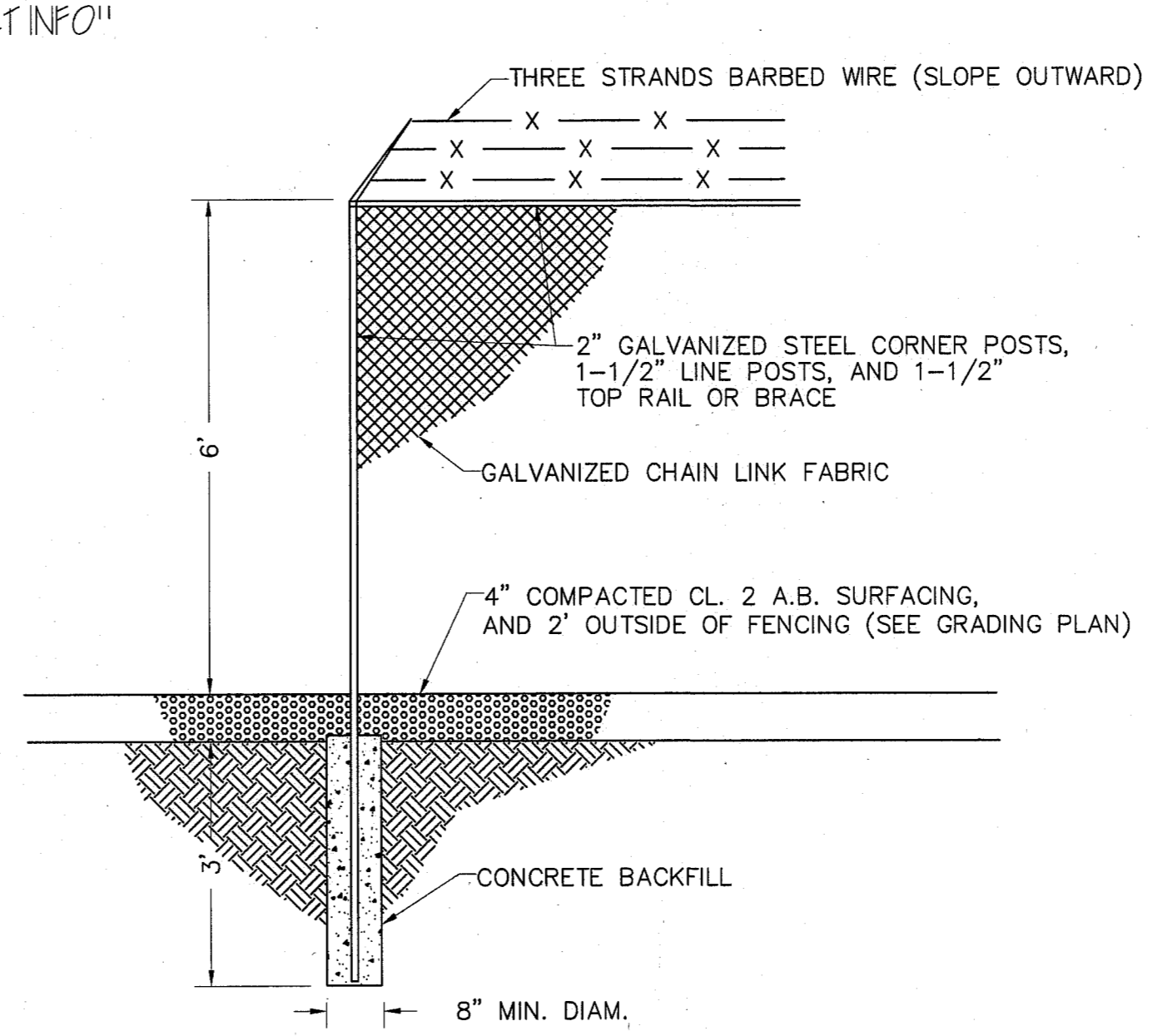
- | ITEM | DESCRIPTION |
|------|---|
| 1. | 10" FxF FABRICATED STEEL 45° ELBOW. LENGTH AS REQ'D (SEE SECT. A) |
| 2. | 10" FLANGED BUTTERFLY VALVE, WHELL OPERATOR, POSITION INDICATOR |
| 3. | 12" FLANGED ADAPTER |
| 4. | 10" VICTAULIC FLANGE |
| 5. | BOOSTER PUMP ASSEMBLY. |
| 6. | 10" FLANGED CHECK VALVE, RUBBER FLAPPER TYPE, APCO MODEL 110, 108 PSI AVE. WORKING PRESSURE |
| 7. | FLANGE BY VICTAULIC END STEEL SPOOL WITH ONE EACH 3/4" AND 1-1/2" THREAD-O-LETS WITH BUSHING AND HOSEBIB. |
| 8. | 12" FLANGED BUTTERFLY VALVE, UNDERGROUND OPERATOR AND BOX (SEE G.V. DETAIL) |
| 9. | BLIND FLANGE |
| 10. | 12" FABRICATED STEEL DISCHARGE HEADER WITH TWO 10" FLANGED INLETS ROTATED UP 45° FROM HORIZ., ONE 12" FLANGED HORIZ. INLET, AND ONE 8" FLANGED HORIZ. INLET. ONE END SHALL BE 12" FLANGED, AND OTHER END SHALL BE 4" FLANGED. |
| 11. | 12" SUCTION HEADER, FABRICATED STEEL. TWO 12" FLANGED OUTLETS, ONE FLANGED END, ONE PLAIN END. |
| 12. | CHRISTY B9 BOX(S) (STACKED) WITH LID |
| 13. | 12" FLANGE BY PLAIN END STEEL SPOOL |
| 14. | 8" FLANGE BY PLAIN END STEEL SPOOL |
| 15. | 8" CLA-VAL SURGE ANTICIPATOR VALVE, MODEL 52-03, FLANGED |
| 16. | 8" FLANGED BUTTERFLY VALVE, UNDERGROUND OPERATOR |
| 17. | CHRISTY R27 PIT WITH 52J 2-PIECE GALV. STEEL CHECKER PLATE PARKWAY CVR. |
| 18. | 8" FLANGED ADAPTER |
| 19. | 4" FLANGED C509 GATE VALVE. SEE DETAIL. |
| 20. | 4" GALV. STEEL PIPE, SCH. 40, THREADED |
| 21. | 4" COMPANION FLANGE |
| 22. | 12" F BY 12" F BY 8" F TEE |
| 23. | 1" WELD-O-LET, AND 3/4" CORP. STOP |
| 24. | 3/4" GALV. SENSING LINE TO SURGE CONTROL VALVE |
| 25. | THRUST BLOCK (SEE DTL.) |
| 26. | CONCRETE PAD (SEE SECTION A) |
| 27. | CHRISTY G5 BOX WITH LID. CENTER BOX OVER OPERATION. USE 8" DIAMETER PIPE SLEEVE AS EXTENSION IF NEEDED. (TYPICAL FOR BUTTERFLY VALVE) |
| 28. | CONDUIT TO BUILDING |
| 29. | 2 #5 STEEL REBAR HOOPS |
| 30. | CHRISTY R33 PIT WITH 2 PIECE GALV. PARKWAY LID |

BOOSTER PUMP STA. DTL.
SCALE: 1/4"=1'

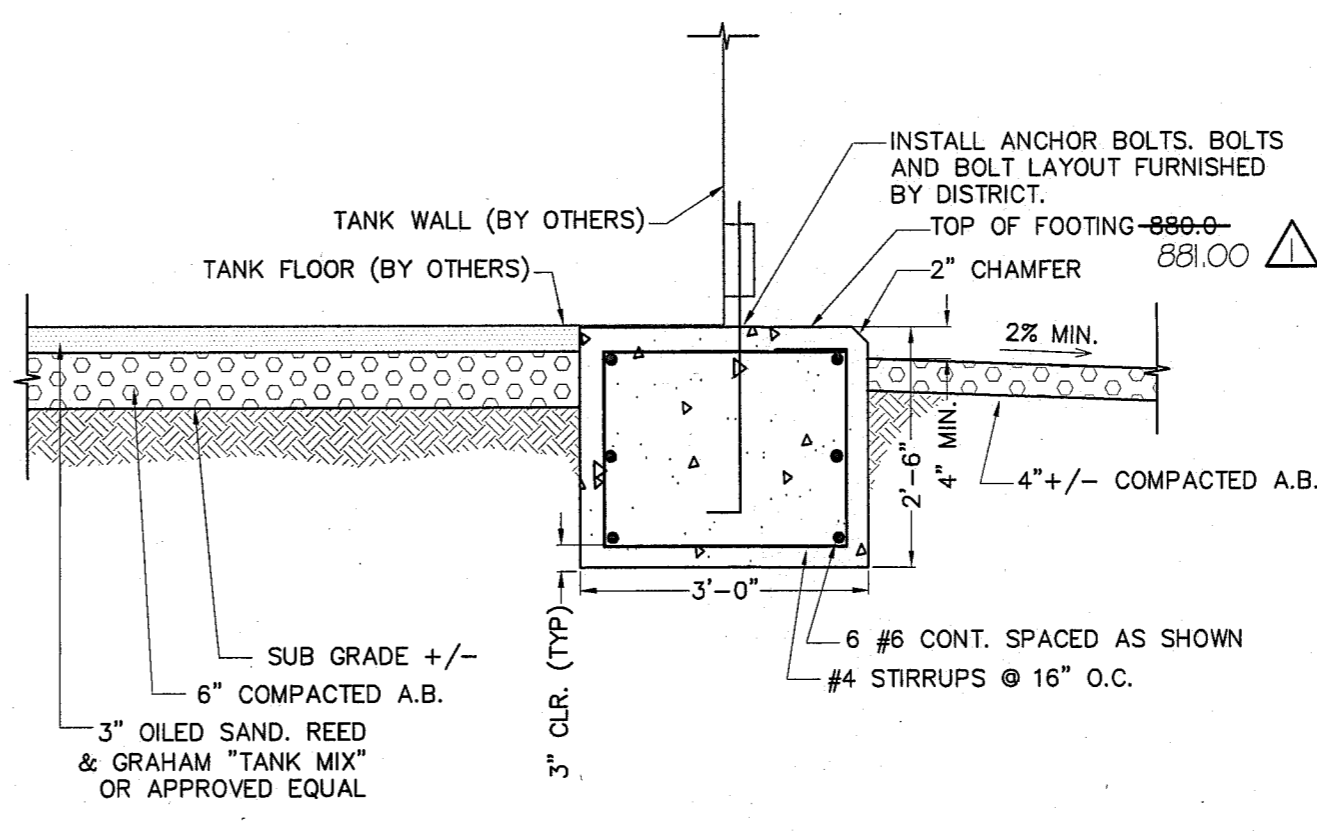
AS BUILT NOTE FONT



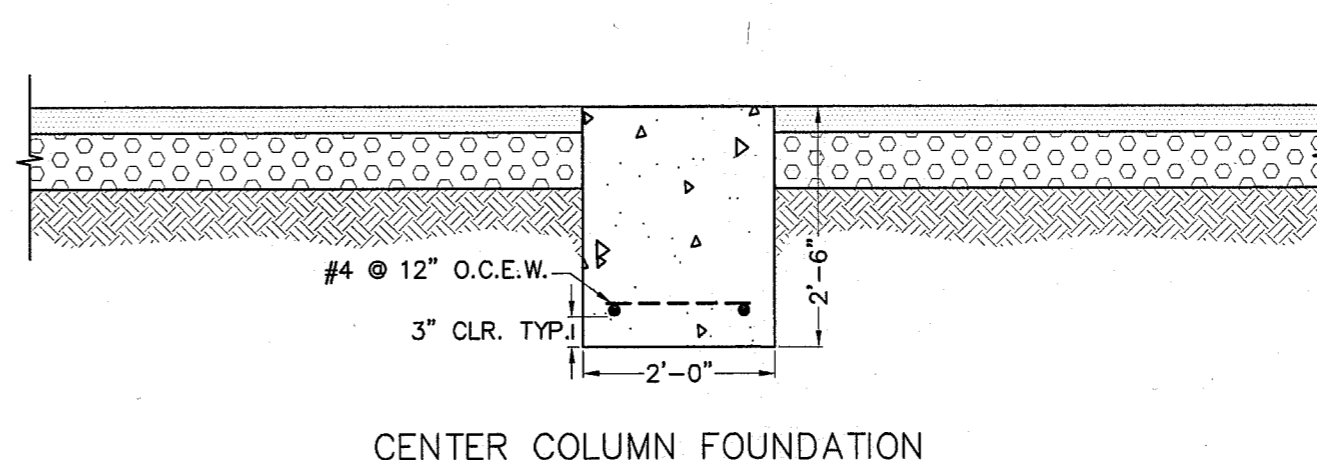
WHARF HYDRANT DETAIL
N.T.S.



FENCE DETAIL
N.T.S.



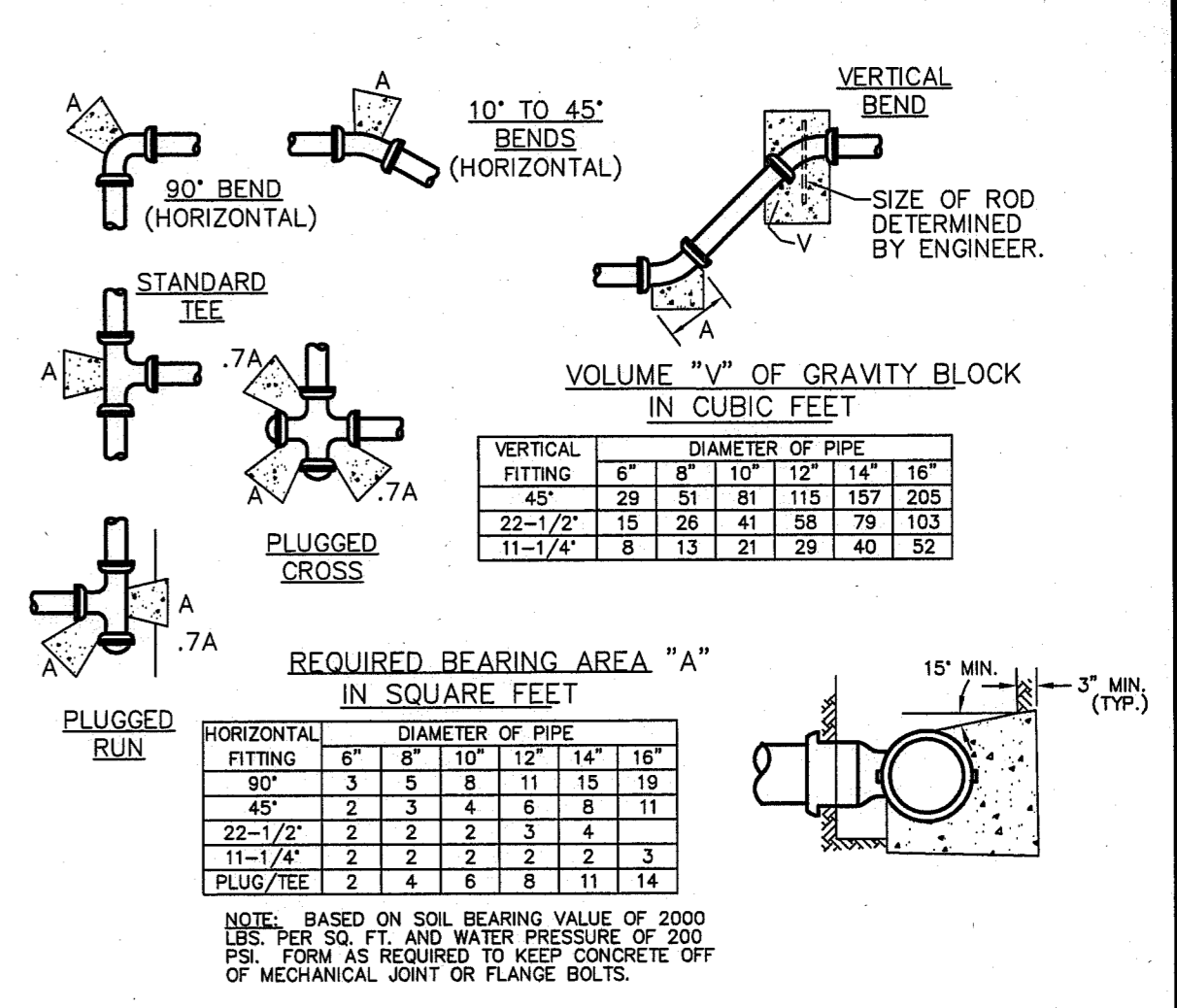
RING FOUNDATION



CENTER COLUMN FOUNDATION

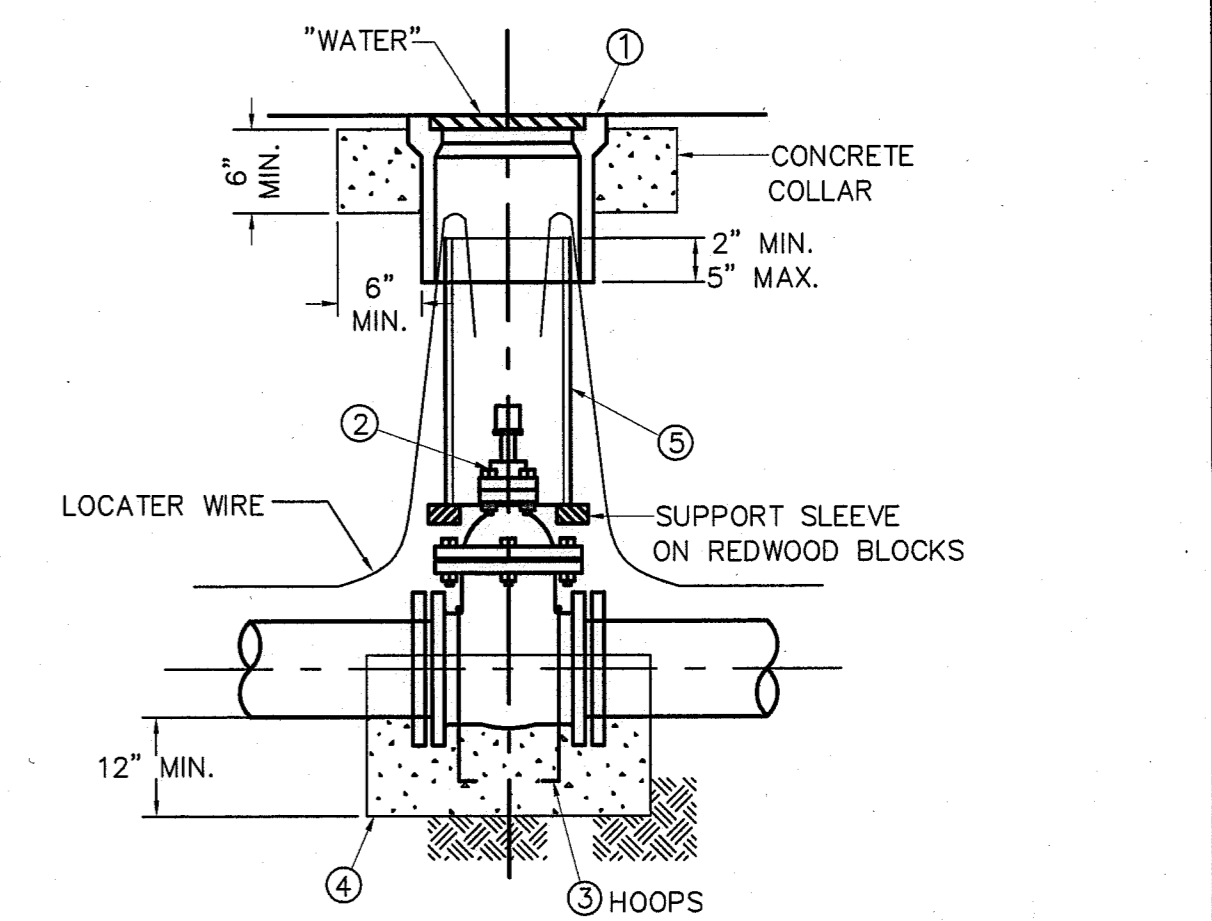
FOUNDATION DETAIL
SCALE: 1/2"=1'

NOTES:
 1. ALL STEEL REINFORCEMENT BARS SHALL BE SCHEDULE 60.



THRUST BLOCK DETAILS
N.T.S.

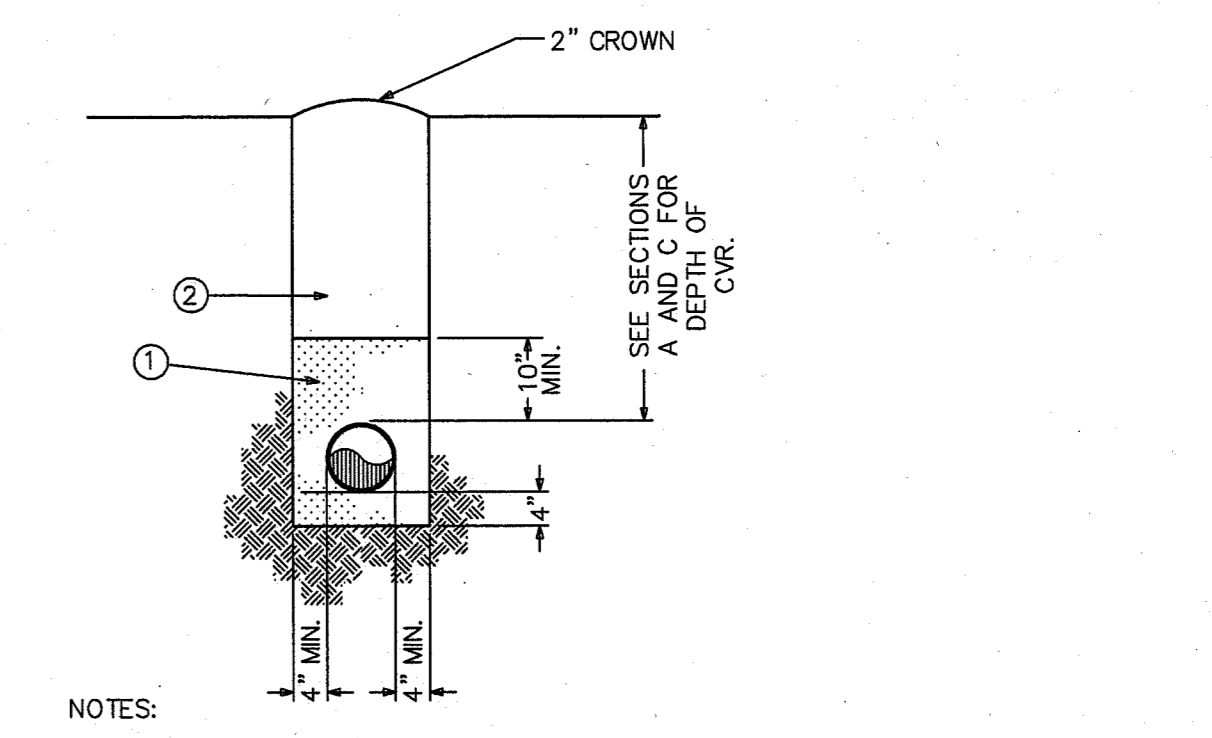
NOTES:
 1. ALL THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH, BACK AND BOTTOM.
 2. A MINIMUM OF 24 HOURS CURING TIME REQUIRED FOR CONCRETE THRUST BLOCKS BEFORE ANY WATER SHOULD BE INTRODUCED INTO PIPELINE AND A MINIMUM OF 7 DAYS CURING TIME BEFORE PRESSURE TEST.



MATERIALS:
 1. CHRISTY G5 TRAFFIC BOX W/ COVER MARKED "WATER."
 2. M & H AWWA C509 NRS RESILIENT SEATED GATE VALVE W/ 2 - "O" RINGS AND 2" SQ. OPERATING NUT.
 3. 1/2" DIAMETER REBAR ANCHORS (2 REQ'D).
 4. CONCRETE THRUST BLOCKS (REFER TO THRUST BLOCK TABLE OF BEARING AREAS).
 5. 8" DIAMETER PIPE SLEEVE, LENGTH AS REQ'D.

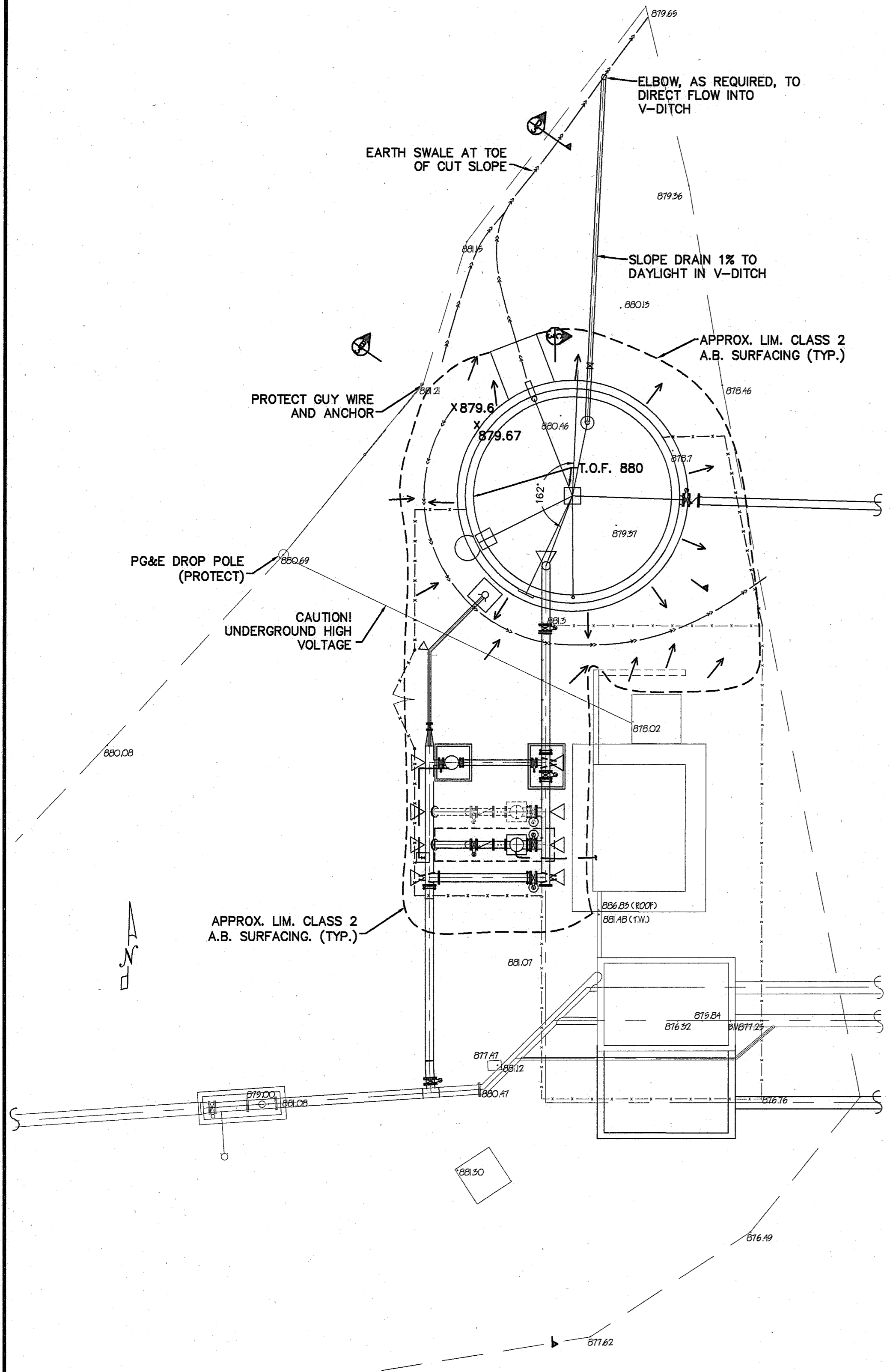
NOTES:
 1. ALL FERROUS METAL FITTINGS, TIE RODS, BOLTS, NUTS, ETC. IN CONTACT WITH EARTH SHALL BE COATED WITH COAL TAR ENAMEL.
 2. VALVE BOX MUST BE CENTERED ON THE AXIS OF THE VALVE OPERATING NUT AND SHAFT.

GATE VALVE DETAIL
N.T.S.



TRENCH SECTION
N.T.S.

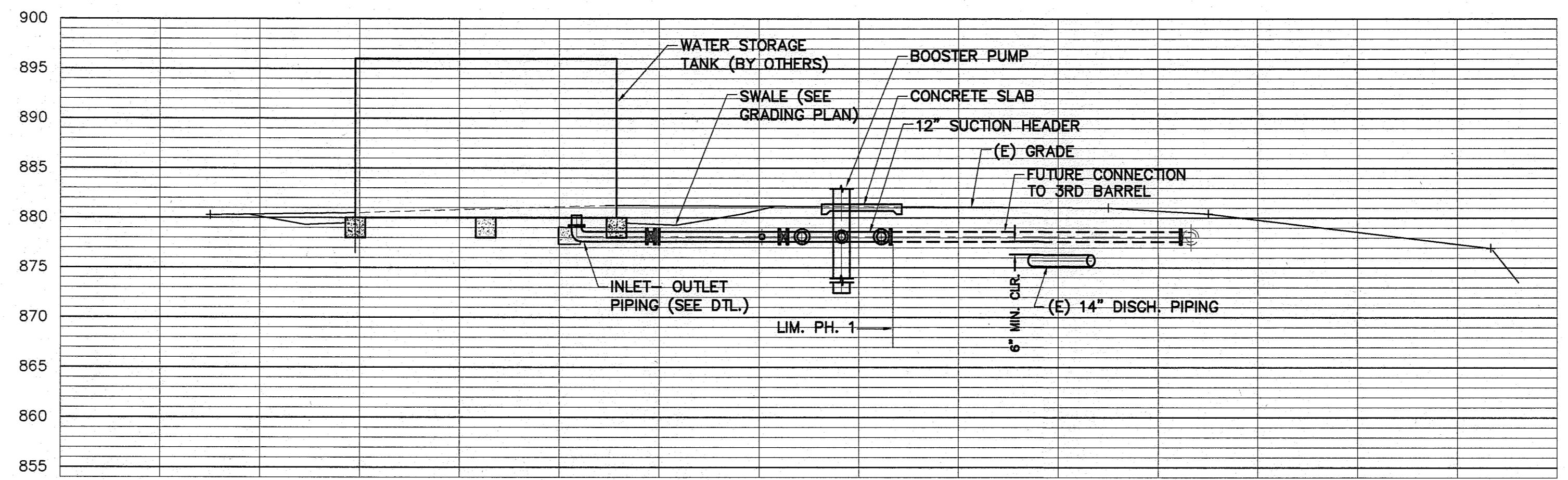
NOTES:
 1. BEDDING AND INITIAL BACKFILL MATERIAL, 90% COMPACTION
 2. SELECT NATIVE OR IMPORTED SOIL, COMPACT TO 95%, 12" LIFTS.



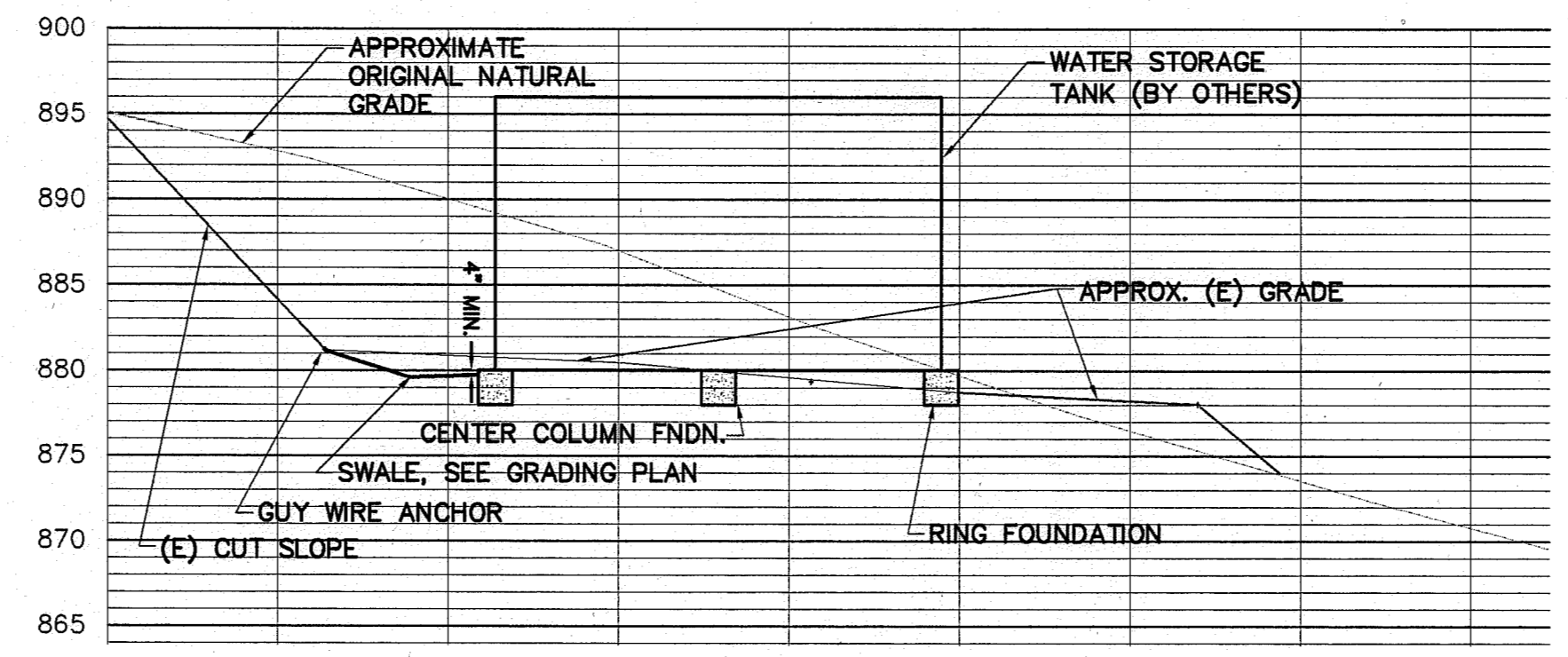
GRADING PLAN
SCALE: 1"=10'

LEGEND

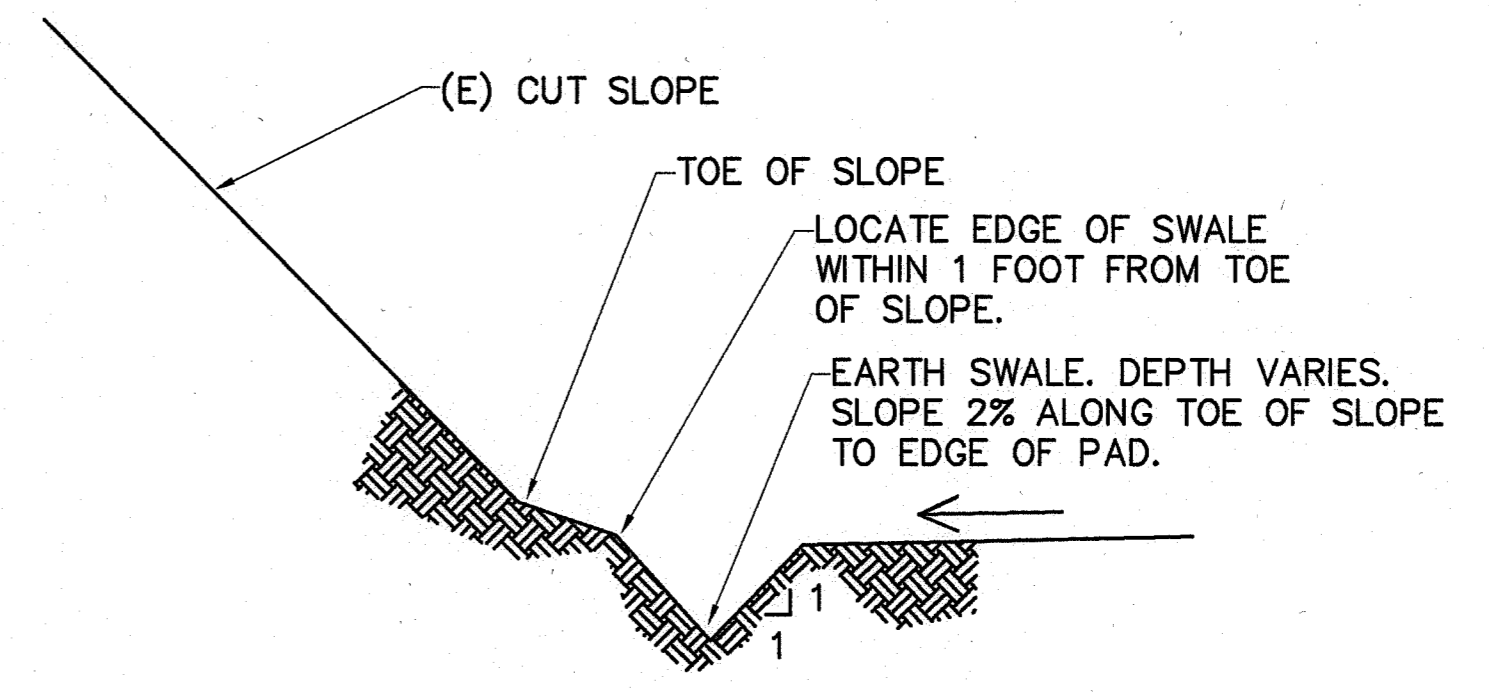
SYMBOL	DESCRIPTION
←	SLOPE SURFACE (2% MIN.)
→	NEW SWALE (SLOPE 2% MIN.)
—	EXISTING BUILDING WALL
- - -	EXISTING FENCE
- - -	PROPOSED FENCE
△	THRUST BLOCK (TB)
881.15	EXISTING ELEVATION
x 879.67	FINISH ELEVATION
(E)	EXISTING



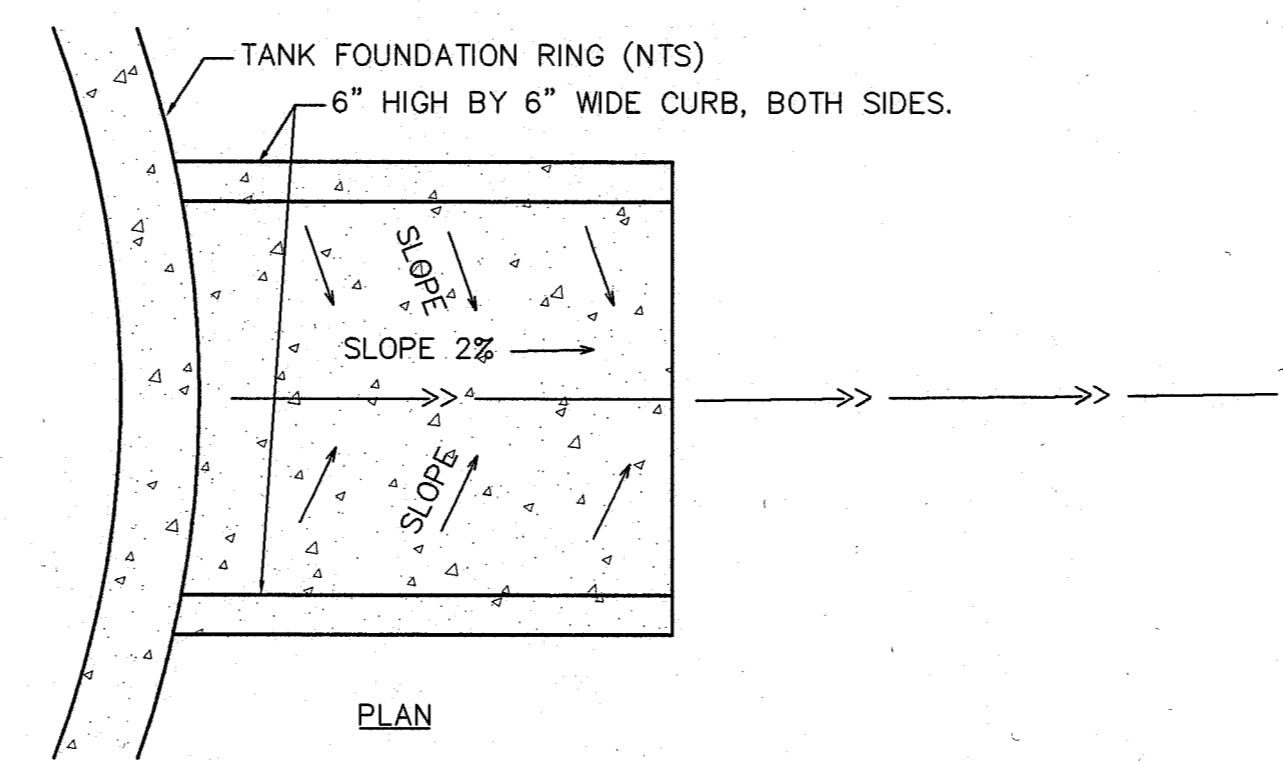
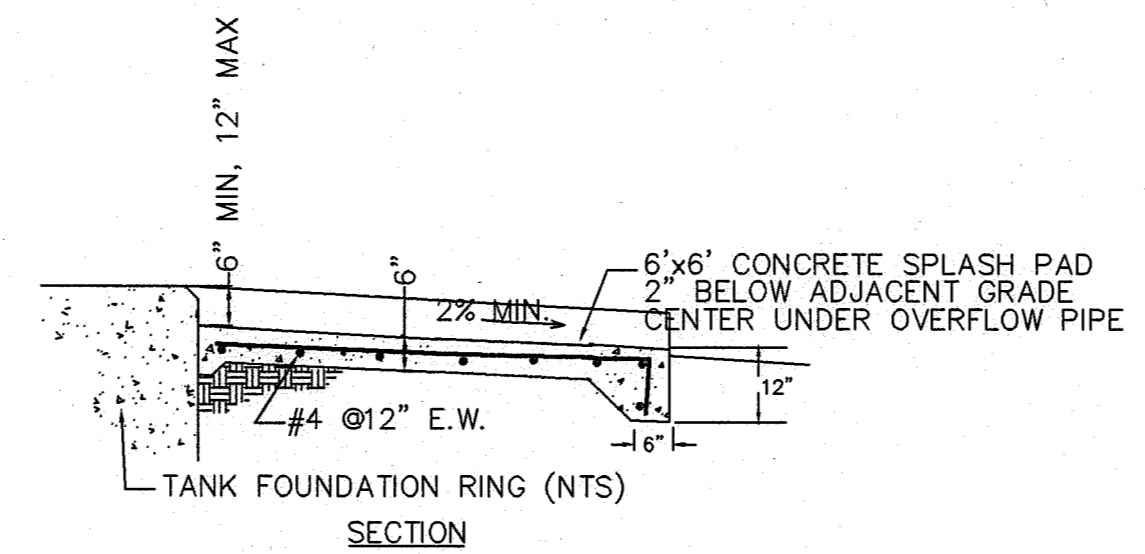
SECTION C
SCALE: 1"=10'



SECTION B
SCALE: 1"=10'



SECTION D
SCALE: 1/2"=1'



SPLASH PAD DETAIL
N.T.S.

REVISIONS	BY

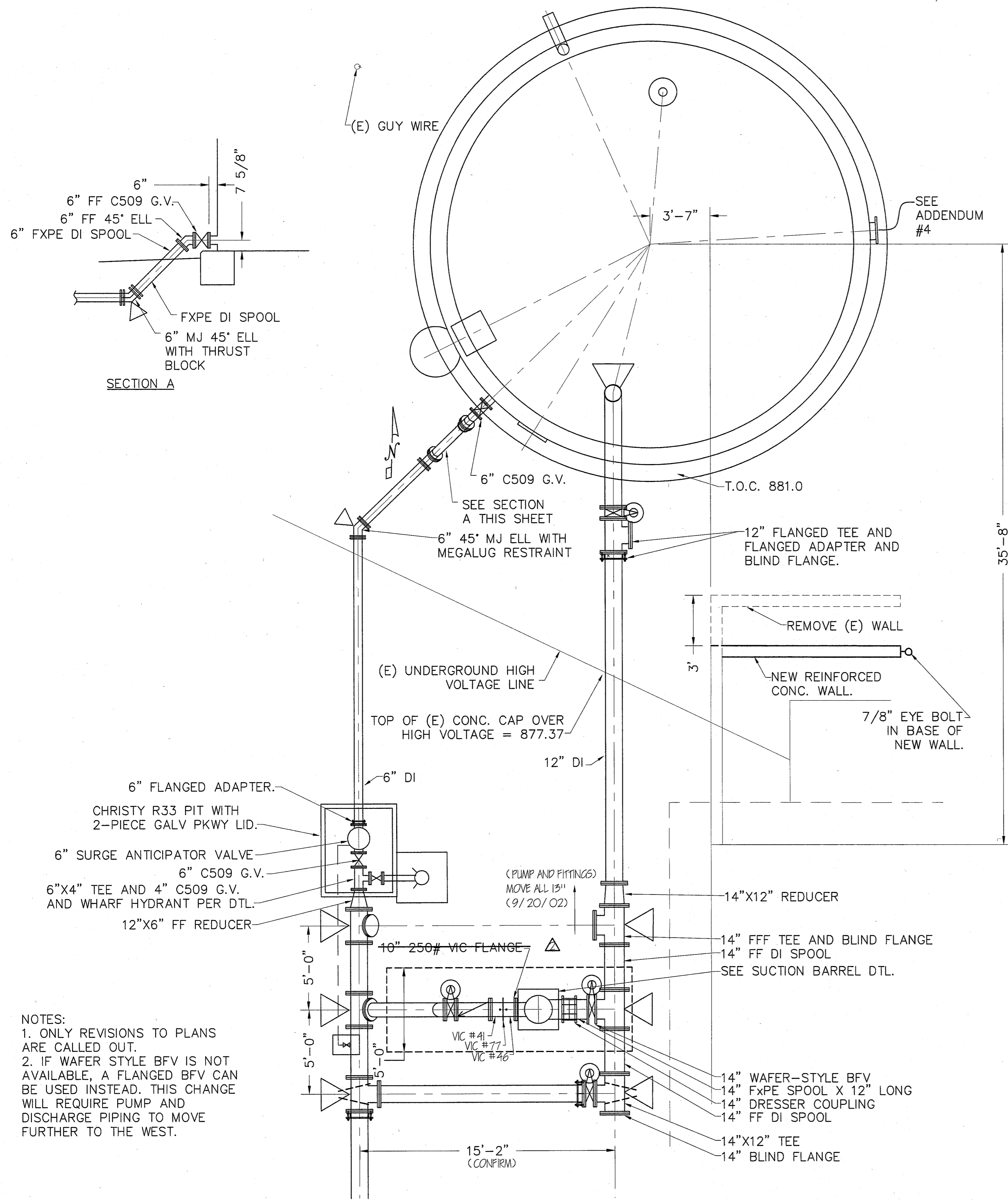
Binkley Associates
CONSULTING ENGINEERS
7246 SHARON DRIVE • SAN JOSE • CALIFORNIA 95128 • (408) 257-9252

GRADING PLAN AND DETAILS

LAKE DON PEDRO
COMMUNITY SERVICES DISTRICT
LAKE MCCLURE INTAKE IMPROVEMENTS
PROJECT #02-01 - PHASE I

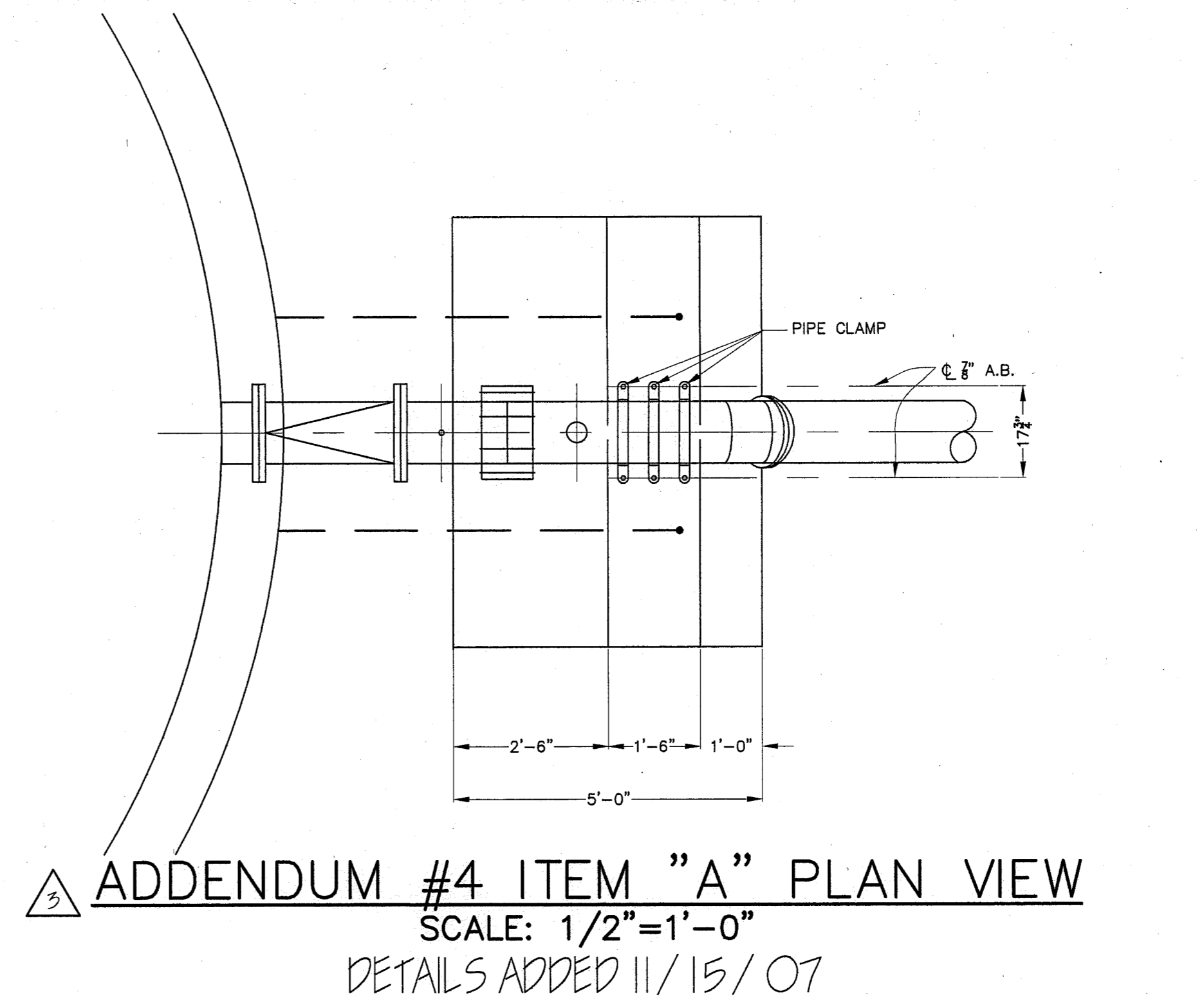
DATE: 7/3/02
SCALE: AS SHOWN
DRAWN: EAB
DWG.#0840601
SHEET 3 OF 3 SHEETS



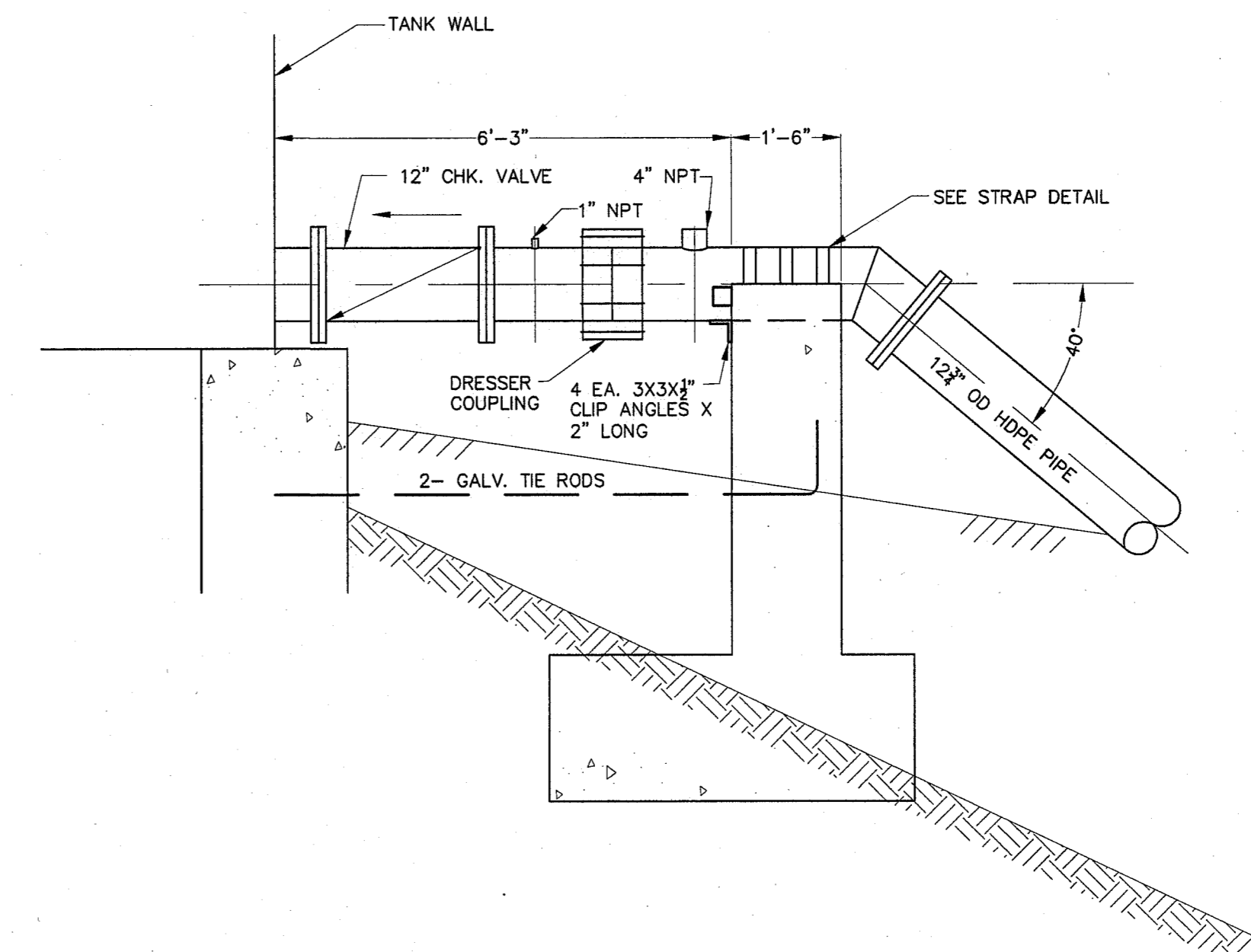


NOTES:
 1. ONLY REVISIONS TO PLANS ARE CALLED OUT.
 2. IF WAFER STYLE BFV IS NOT AVAILABLE, A FLANGED BFV CAN BE USED INSTEAD. THIS CHANGE WILL REQUIRE PUMP AND DISCHARGE PIPING TO MOVE FURTHER TO THE WEST.

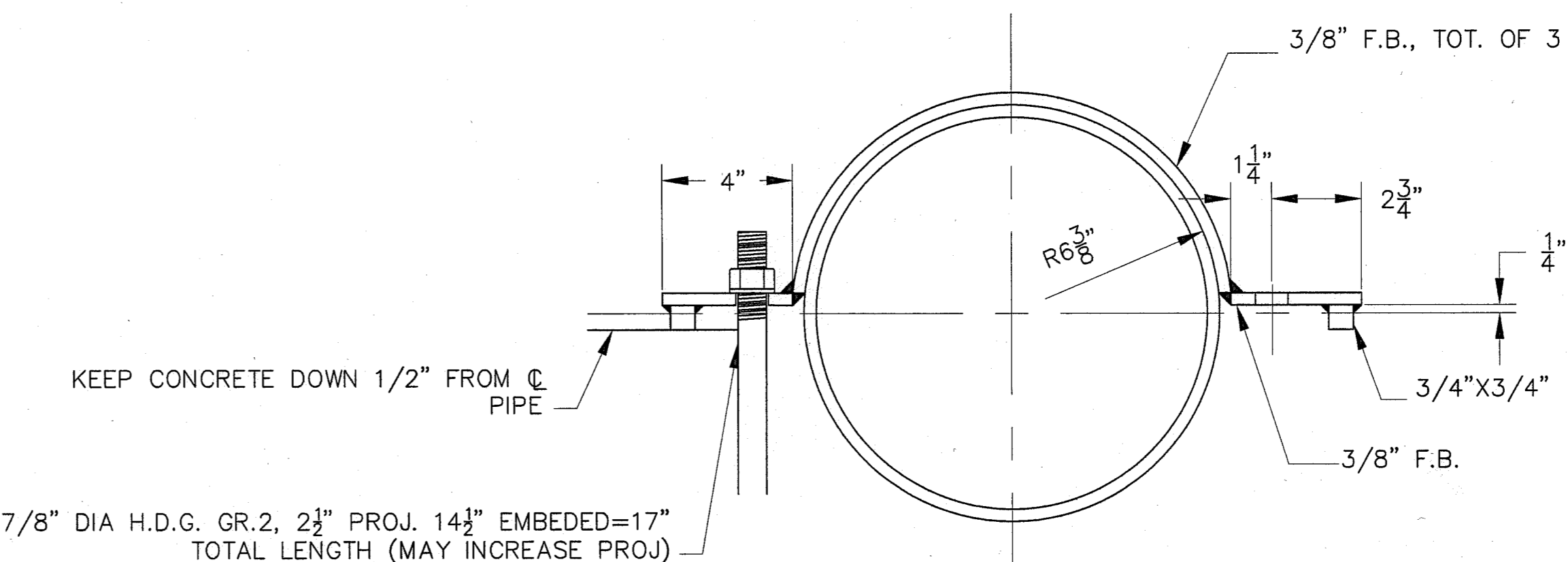
△ PIPING AND PUMP STATION REVISIONS
 SCALE: 1/4"=1'-0"



△ ADDENDUM #4 ITEM "A" PLAN VIEW
 SCALE: 1/2"=1'-0"
 DETAILS ADDED 11/15/07



△ ADDENDUM #4 ITEM "A"
 HDPE PIPE CONNECTION AND ANCHOR
 SCALE: 1/2"=1'-0"
 DETAILS ADDED 11/15/07



△ LAKE McCLURE TANK SHELL INLET
 SCALE: 1/4"=1'-0"
 DETAILS ADDED 11/15/07

AS BUILT NOTE FONT

REVISIONS	BY
△ 8/23/02	EAB
△ 8/28/02	EAB
△ 11/15/07 CO+AS BLT	JR

Binkley Associates	
CONSULTING ENGINEERS	
7246 SHARON DRIVE • SAN JOSE • CALIFORNIA 95129 • (408) 257-9252	

CHANGE ORDER #1
AND AS BUILT INFO

LAKE DON PEDRO COMMUNITY SERVICES DISTRICT LAKE McCLURE INTAKE IMPROVEMENTS PROJECT #02-01 - PHASE IIB

DATE: 11/16/07
SCALE: AS SHOWN
DRAWN: EAB
DWG.#0840601
SHEET
1
OF 1 SHEETS

ELECTRICAL NOTES:

A. GENERAL REQUIREMENTS:

1. ELECTRICAL INSTALLATION SHALL COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, INCLUDING THE FOLLOWING:
TITLE 24, CCR, PART 2, 1998 (1997 UBC W/CALIF. AMENDMENTS)
TITLE 24, CCR, PART 3, 1998 (1996 NEC W/CALIF. AMENDMENTS)
TITLE 24, CCR, PART 4, 1998 CMC (1997 UMC W/CALIF. AMENDS.)
TITLE 24, CCR, PART 9, 1998 CFC (1997 UFC W/CALIF. AMENDS.)
SAN JOAQUIN VALLEY AIR QUALITY BOARD REQUIREMENTS
ALL APPLICABLE STATE CODES
2. ELECTRICAL CONTRACTOR SHALL VERIFY ELECTRICAL SERVICE AT SITE PRIOR TO BIDDING. SERVICES TO CONFORM TO UTILITY COMPANY REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL ARRANGE FOR SERVICE INSTALLATION PER UTILITY COMPANY REQUIREMENTS AND PAY ALL CUSTOMER CHARGED SERVICE COSTS. COORDINATE WITH OWNER AND UTILITY COMPANY FOR SERVICE REMOVALS AND INSTALLATION SO AS TO MINIMIZE POWER OUTAGES.
3. ELECTRICAL CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, LICENSES, ETC. REQUIRED TO CARRY ON AND COMPLETE THE WORK.
4. THE INTENT OF THIS PROJECT IS TO INSTALL A FULLY FUNCTIONAL LIFT PUMP STATION. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, PLANT EQUIPMENT, TRANSPORTATION TO PERFORM ALL OPERATIONS NECESSARY FOR THE COMPLETION OF THE WORK. PROVIDE ALL LABOR AND MATERIALS FOR ANY REASONABLE INCIDENTAL WORK REQUIRED FOR PROPER EXECUTION OF THIS PROJECT WHETHER SPECIFICALLY MENTIONED OR NOT, ALL AS IMPLIED BY THE INTENT ABOVE.
5. ALL MATERIALS SHALL BE NEW AND LISTED WITH THE UNDERWRITERS' LABORATORIES, INC., SHALL MEET THEIR REQUIREMENTS AND SHALL BEAR THEIR LABEL WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY THAT AGENCY.
6. ELECTRICAL DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH THE SIZE AND LOCATIONS OF EQUIPMENTS ARE SHOWN TO SCALE WHEREVER POSSIBLE, ELECTRICAL CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION AT THE SITE. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT AND INSTALLING HIS WORK TO AVOID INTERFERENCE WITH OTHER TRADES.

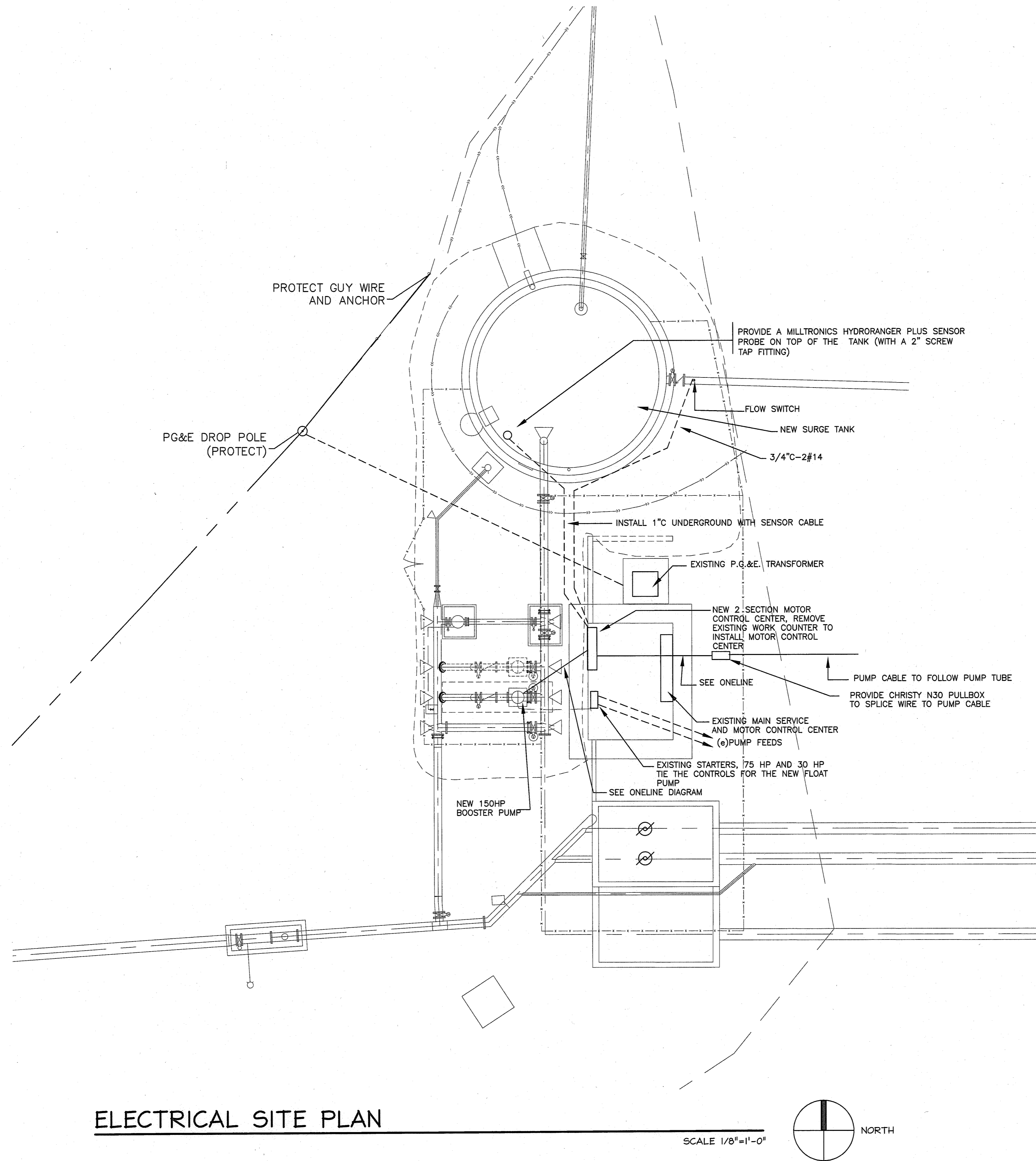
B. SITE WORK CONDITIONS:

1. IRRESPECTIVE OF WHETHER IT SHOWS UP ON THE PLANS OR NOT, THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL ELECTRICAL (LIGHTS AND RECEPTACLES AND CONTROL SYSTEM DEVICES (STARTERS, ETC.)) THIS SHALL BE DONE AT NO ADDITIONAL CHARGE TO THE OWNERS.

C. RACEWAYS & WIRING SYSTEMS:

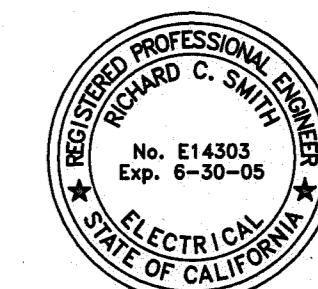
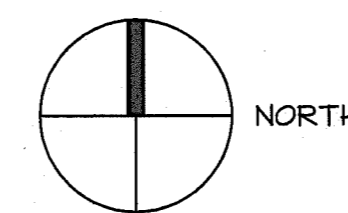
1. ALL WIRING SHALL BE INSTALLED IN CONDUITS. CONDUITS SHALL BE CONCEALED UNDERGROUND AS FAR AS PRACTICAL. ALL CONDUITS INSTALLED ON EXTERIOR WALLS (I.E. EXTERIOR SURFACE) SHALL BE GALVANIZED RIGID STEEL.
2. CONDUCTORS SHALL BE COPPER CONDUCTORS TYPE THHN/THWN FOR #8 OR SMALLER AND COPPER CONDUCTORS TYPE THW FOR #6 OR LARGER UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.
3. ALL DEVICES, CONDUITS, RACEWAYS AND CABLES SHOWN ARE NEW TO BE PROVIDED UNLESS OTHERWISE NOTED.
4. SEPARATION OF WIRING OF DIFFERENT VOLTAGE CLASSIFICATIONS:
 - A. WIRING FOR DIFFERENT VOLTAGE CLASSIFICATIONS SHALL BE INSTALLED IN ENTIRELY SEPARATE RACEWAYS/ CONDUITS SYSTEM AND ENCLOSURES/BOXES.

CLASSIFICATION 1	- 0 TO 30 V
CLASSIFICATION 2	- 100 TO 250 V
CLASSIFICATION 3	- 251 TO 500 V
 - B. DISCONNECTS SHALL NOT BE USED AS THROUGH RACEWAYS FOR WIRING NOT DIRECTLY SERVING THE DISCONNECTS. SERVICING OUTLETS SHALL NOT BE MOUNTED ON DISCONNECTS.
5. WORK SHOWN ON THE DRAWINGS TO BE INSTALLED UNDERGROUND SHALL BE INSTALLED AT LEAST 24" BELOW GRADE UNLESS OTHERWISE NOTED. BACKFILL IN 6" THICK, PROPERLY MOISTENED LAYERS, SOLIDLY PACKED AND IRON TAMPED TO A DENSITY NOT LESS THAN THAT OF ADJACENT, UNDISTURBED EARTH. RESTORE SURFACES, ROADWAYS, WALKS, CURBS, WALLS AND EXISTING UNDERGROUND INSTALLATIONS TO ORIGINAL CONDITION IN AN ACCEPTANCE MANNER.



ELECTRICAL SITE PLAN

SCALE 1/8"=1'-0"



HCS ENGINEERING, INC.
CONSULTING ELECTRICAL ENGINEERS
4651 QUAIL LAKES DRIVE
STOCKTON, CA 95207 (209)478-8270
E-MAIL ADDRESS - mike@hcsengineering.com
PROJ. 2002.183 DES. MEC ENG. RCS

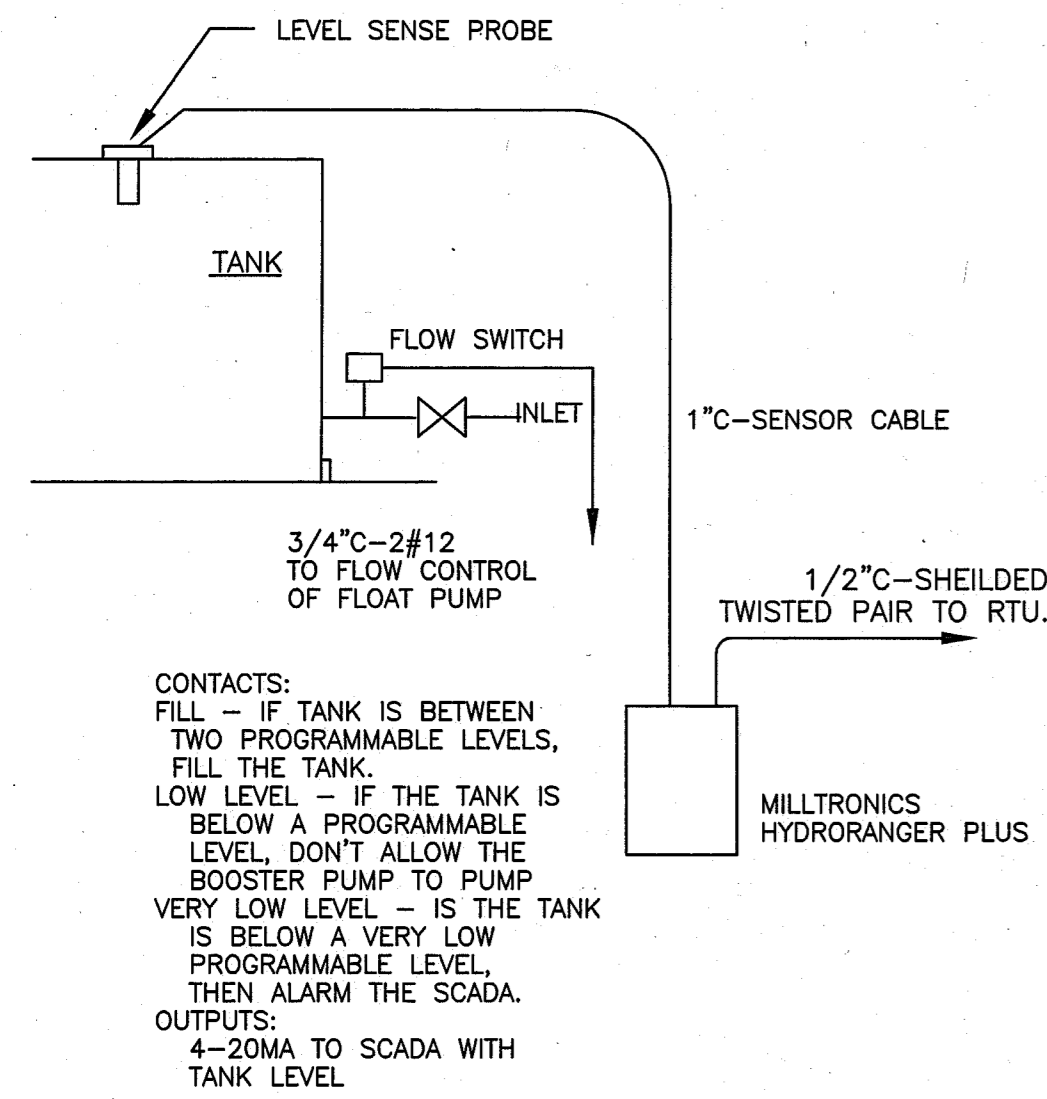
REVISIONS	BY

Binkley Associates
CONSULTING ENGINEERS

7246 SHARON DRIVE • SAN JOSE • CALIFORNIA 95129 • (408) 257-9252

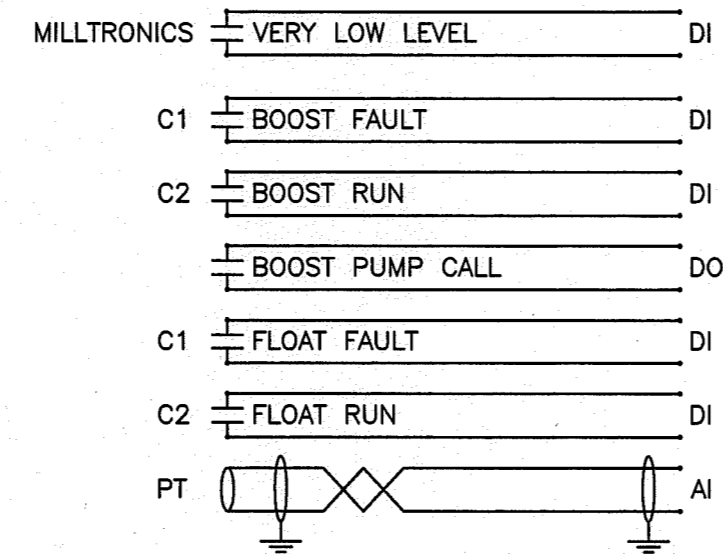
LAKE DON PEDRO
COMMUNITY SERVICES DISTRICT
LAKE McCLURE INTAKE IMPROVEMENTS
PROJECT #02-01 - PHASE I

DATE: 7/29/02
SCALE: AS SHOWN
DRAWN: MEC
DWG.#0840601
SHEET
E1
OF SHEETS



TANK INTERFACE DIAGRAM

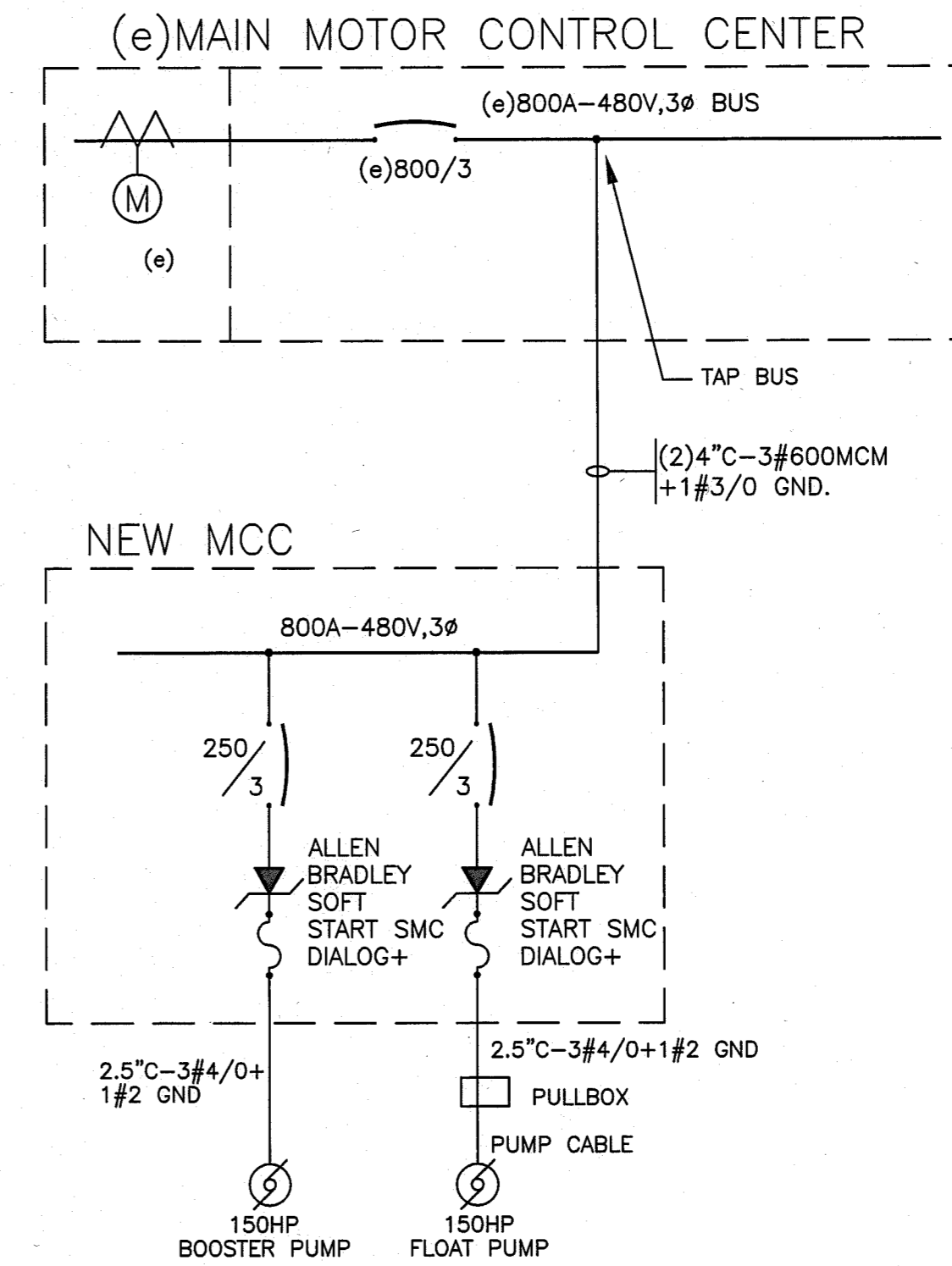
NTS



SCADA INTERCONNECTION

NTS

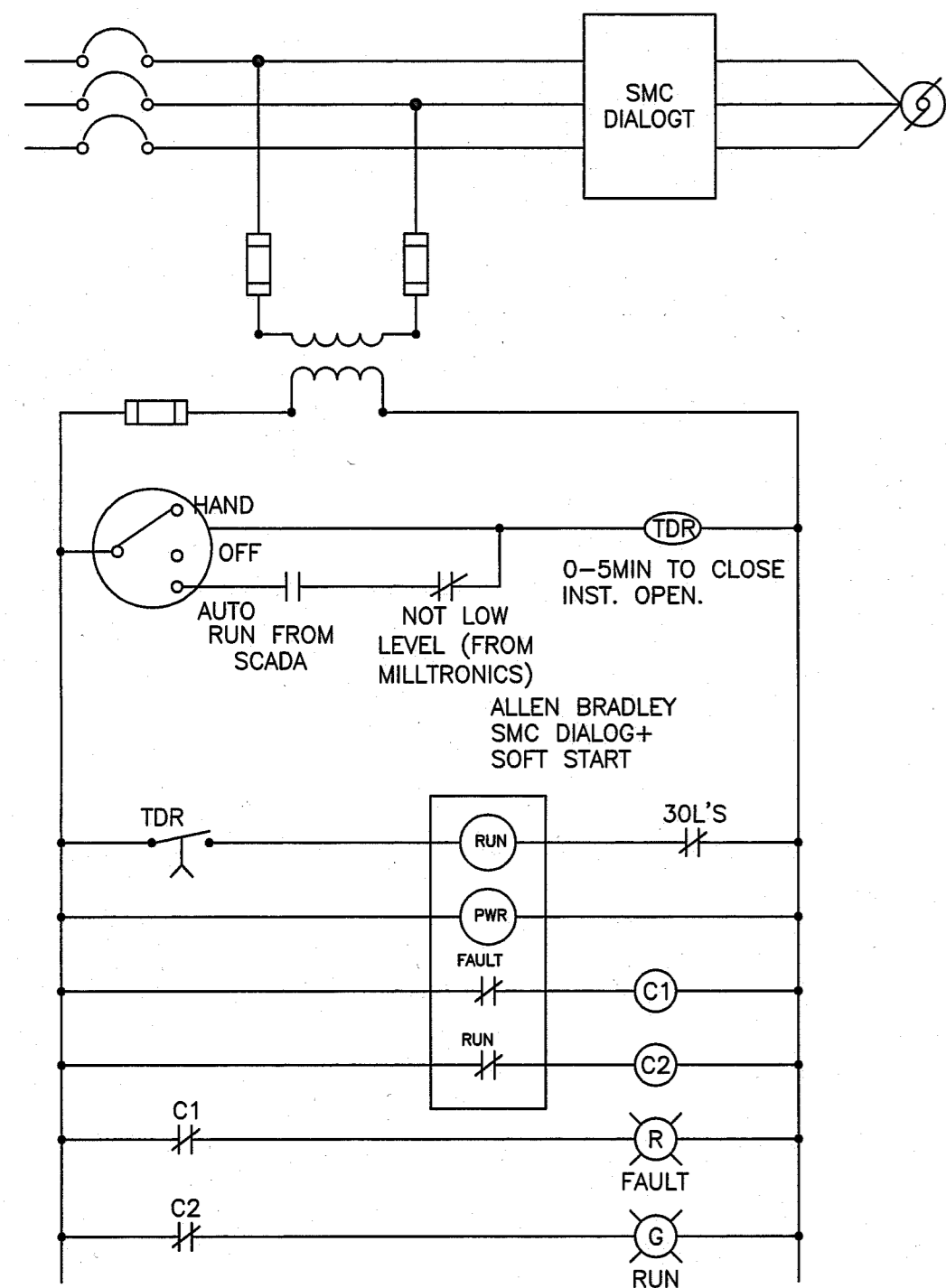
OPERATIONAL MATRIX					
	200hp RESV. PUMP	200hp RESV. PUMP	75hp FLOAT PUMP	150hp FLOAT PUMP	150hp BOOSTER PUMP
PUMP FROM RESV.	X				
PUMP FROM RESV.		X			
FILL TANK			X		
FILL TANK				X	
FILL TANK & PUMP FROM RESV.	X	X			
FILL TANK & PUMP FROM RESV.	X		X		
FILL TANK & PUMP FROM RESV.	X	X			
FILL TANK & PUMP FROM RESV.		X	X		
PUMP FROM TANK					X
FILL TANK/PUMP FROM TANK.			X	X	
FILL TANK/PUMP FROM TANK.				X	X



ONE LINE DIAGRAM

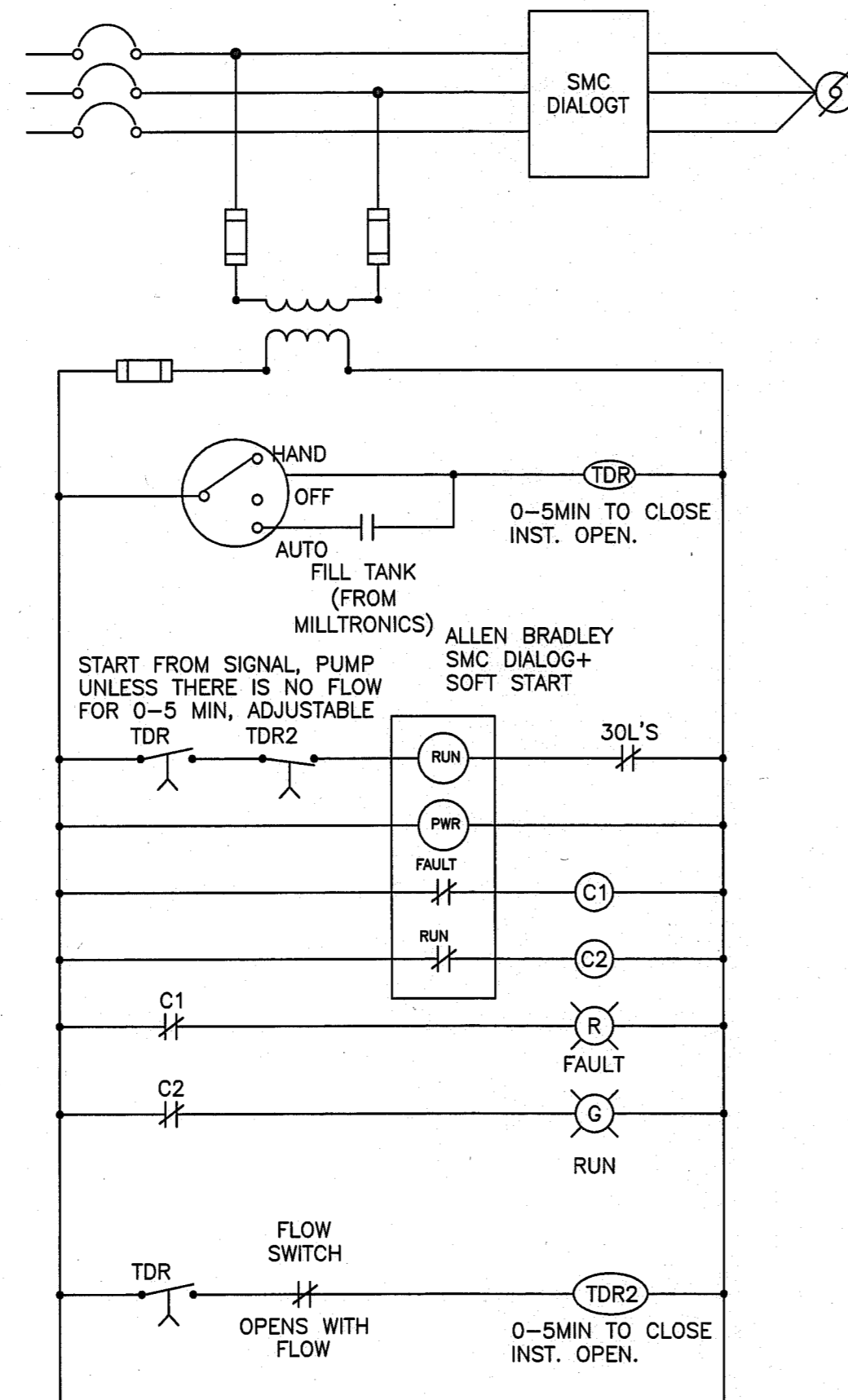
NTS

L E G E N D	
⊠	KIRK KEY
⊞	LIGHT SWITCH - SPST
⊞	120 VOLT DUPLEX WALL OUTLET
⊞	JUNCTION BOX
⊞	FUSED DISCONNECT SWITCH
⊞	MANUAL MOTOR STARTER/DISCONNECT
⊞	MOTOR OUTLET
---	CONDUIT CONCEALED IN FLOOR OR UNDERGROUND
---	SEALTITE FLEX CONNECTION
---	DISTRIBUTION PANEL
---	LIGHTING PANEL
U.O.N.	UNLESS OTHERWISE NOTED
CO	CONDUIT ONLY
WP	WEATHERPROOF
GFI	GROUND FAULT INTERRUPTER
⊞	GROUND ROD 3/4" x 10'-0" LONG WITH CHRISTY GROUNDWELL CONCRETE BOX
ETM	ELAPSED TIME METER, NON-RESET 0-9999 HOURS
⊞	LIGHT STANDARD
⊞	FLOW METER
⊞	LIMIT SWITCH
MCC	MOTOR CONTROL CENTER
PLC	PROGRAMMABLE CONTROLLER



MOTOR CONTROL : BOOSTER PUMP

NTS



MOTOR CONTROL : FLOAT PUMP

NTS

REVISIONS BY

Binkley Associates
 CONSULTING ENGINEERS

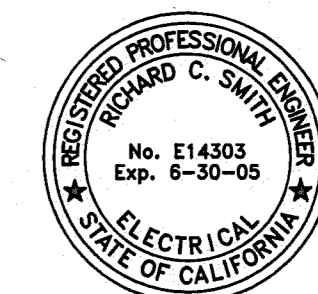
7246 SHARON DRIVE • SAN JOSE • CALIFORNIA 95129 • (408) 257-9252

**ELECTRICAL
 DETAILS**

LAKE DON PEDRO
 COMMUNITY SERVICES DISTRICT
 LAKE McCLURE INTAKE IMPROVEMENTS
 PROJECT #02-01 - PHASE I

DATE: 7/29/02
 SCALE: AS SHOWN
 DRAWN: MEC
 DWG.#0840601
 SHEET
E2
 OF SHEETS

HCS ENGINEERING, INC.
 CONSULTING ELECTRICAL ENGINEERS
 4651 QUAIL LAKES DRIVE
 STOCKTON, CA 95207 (209)478-8270
 E-MAIL ADDRESS - mike@hcsengineering.com
 PROJ. 2002.183 DES. MEC ENG. RCS



Appendix D

Barge Rehabilitation Project

5/29/2018 4:25 PM
 AARON TAYLOR
 C:\Users\AaronTaylor\Desktop\KU Project Backup\Temp LDPCSD BarrettCoveBarge 1770029.00\CAD\1770029.00-S.dwg

SHEET LIST	
SHEET	SHEET TITLE
S0.1	EXISTING REFERENCE PHOTOS
S1.1	EXISTING TOP DECK PLAN
S1.2	EXISTING BOTTOM HULL PLAN
S2.1	EXISTING SIDE VIEWS
S3.1	TOP DECK PLAN MODIFICATIONS
S3.2	VERTICAL TURBINE PUMP MOUNTING
S3.3	CRANE SECTIONS
S4.1	FABRICATION DETAILS - 1
S4.2	FABRICATION DETAILS - 2
S4.3	FABRICATION DETAILS - 3
S4.4	FABRICATION DETAILS - 4
S4.5	FABRICATION DETAILS - 5



EXISTING BARGE PHOTO #4



EXISTING BARGE PHOTO #3



EXISTING BARGE PHOTO #2

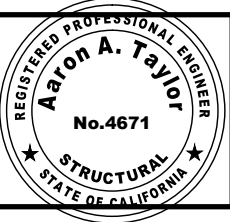


EXISTING BARGE PHOTO #1

USE OF DOCUMENTS
 THIS DOCUMENT, INCLUDING THE INCORPORATED DESIGNS, IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF KENNEDY/JENKS CONSULTANTS.

SCALES
 0 ————— 1"
 IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

**100% DWGS
 FOR CLIENT REVIEW
 NOT FOR CONSTRUCTION**



DESIGNED
AAT
 DRAWN
 CHECKED
PDS 134

**LDPCSD - BARRETT COVE
 PUMP BARGE REHABILITATION**
 Kennedy/Jenks Consultants
 10850 GOLD CENTER DRIVE, SUITE 350
 RANCHO CORDOVA, CA 95670

**FLOATING BARGE
 EXISTING REFERENCE PHOTOS**

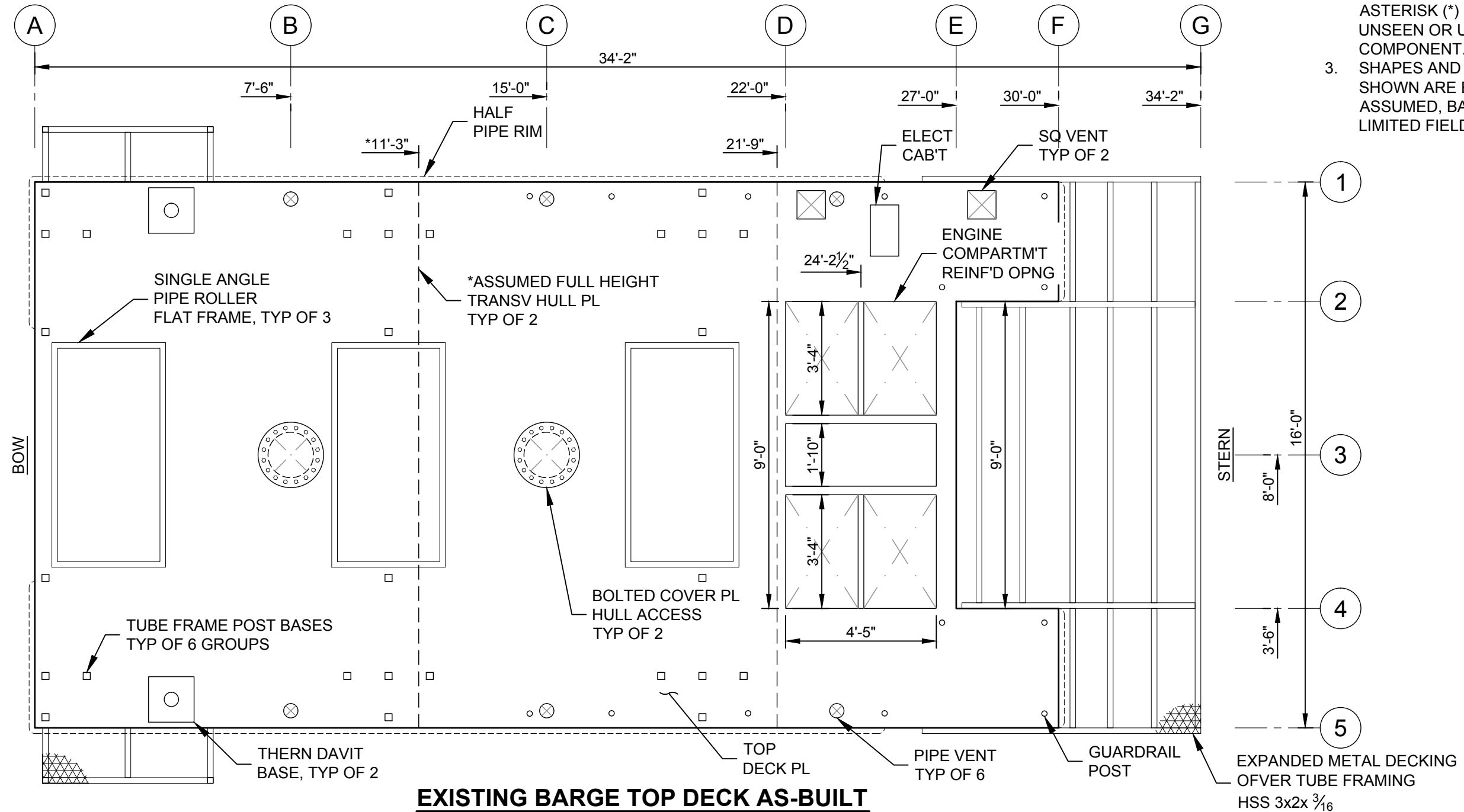
FILE NAME
 JOB NO. 1770029*00
 DATE 2018-05-29
 SHEET
S0.1

TOP DECK DATA	
COMPONENT	PARAMETER
TOP DECK FLAT GROSS AREA	453 sqft
DECK OPNGS	40 sqft
TOP DECK FLAT NET AREA	413 sqft
DECK PL THICK	*5/16"

← NOT CONSIDERING REINFORCED AREAS

NOTES

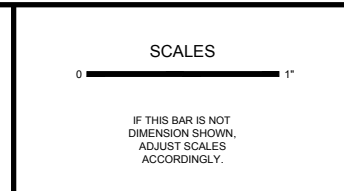
1. DIMENSIONS SHOWN ARE APPROXIMATE, TYPICALLY PLUS OR MINUS 3".
2. DIMENSIONS WITH AN ASTERISK (*) INDICATE AN UNSEEN OR UNMEASURED COMPONENT. VERIFY.
3. SHAPES AND PL THICKNESS SHOWN ARE ESTIMATED OR ASSUMED, BASED ON LIMITED FIELD DATA.



EXISTING BARGE TOP DECK AS-BUILT
APPROX SCALE: 1 = 40

C:\Users\AaronTaylor\Desktop\KU Project Backup\Temp_LDPDSD BarrettCoveBarge_1770029.00\CAD\1770029.00-S.dwg
5/29/2018 4:25 PM
AARON TAYLOR

USE OF DOCUMENTS
THIS DOCUMENT, INCLUDING THE INCORPORATED DESIGNS, IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF KENNEDY/JENKS CONSULTANTS.



100% DWGS FOR CLIENT REVIEW NOT FOR CONSTRUCTION



DESIGNED: AAT
DRAWN:
CHECKED: PDS 135

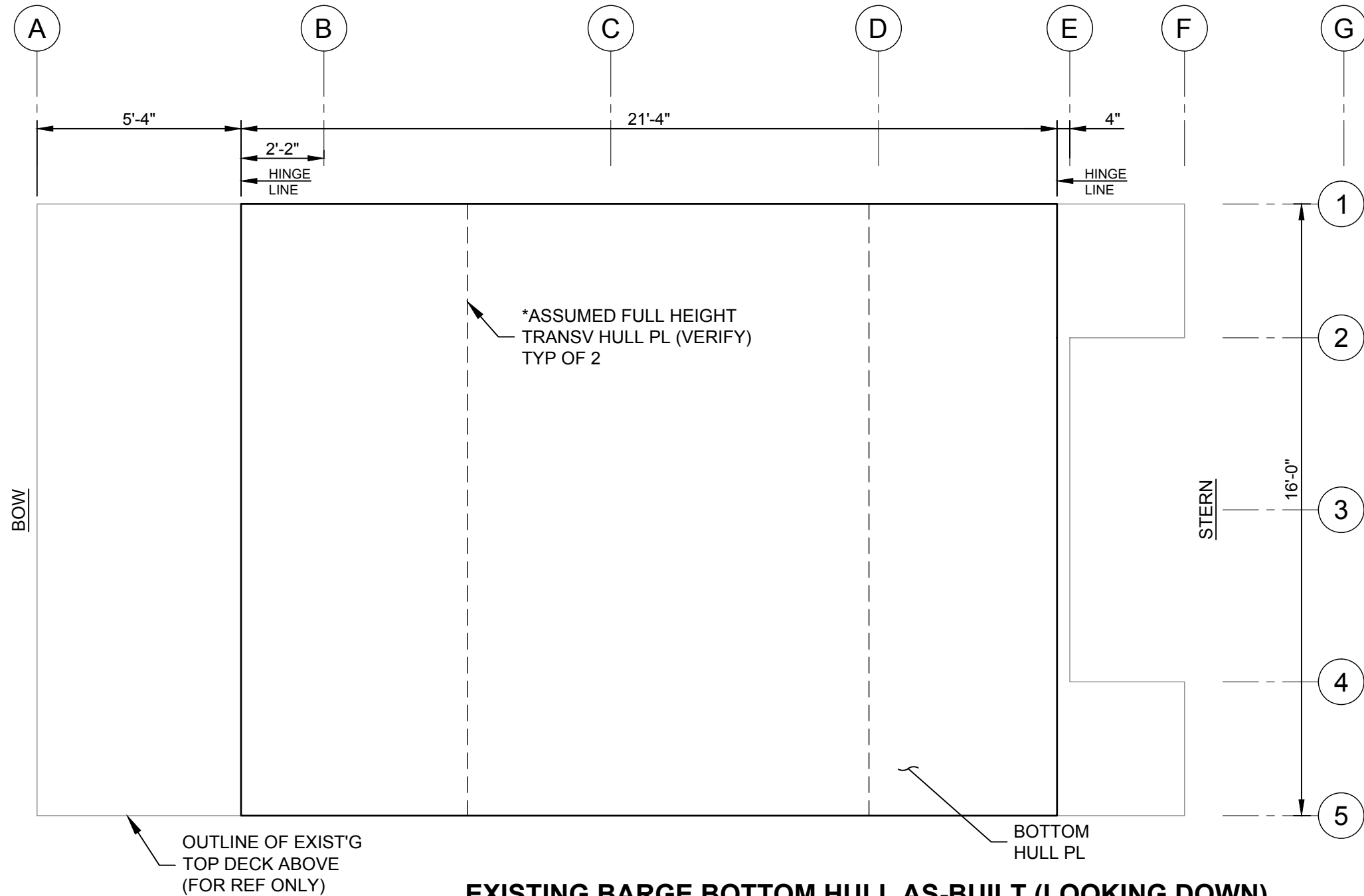
LDPCSD - BARRETT COVE PUMP BARGE REHABILITATION
Kennedy/Jenks Consultants
10850 GOLD CENTER DRIVE, SUITE 350
RANCHO CORDOVA, CA 95670

FLOATING BARGE EXISTING TOP DECK PLAN

FILE NAME:
JOB NO.: 1770029*00
DATE: 2018-05-29
SHEET: **S1.1**

BOTTOM HULL DATA	
COMPONENT	PARAMETER
BOTTOM FLAT GROSS AREA	341 sqft
BOTTOM FLAT OPNGS	NONE
DECK PL THICK	*5/16"

← NOT CONSIDERING REINFORCED AREAS



EXISTING BARGE BOTTOM HULL AS-BUILT (LOOKING DOWN)

APPROX SCALE: 1 = 40

USE OF DOCUMENTS

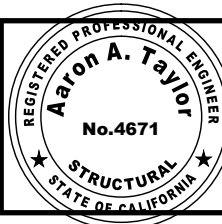
THIS DOCUMENT, INCLUDING THE INCORPORATED DESIGNS, IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF KENNEDY/JENKS CONSULTANTS.

SCALES



IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

**100% DWGS
FOR CLIENT REVIEW
NOT FOR CONSTRUCTION**



DESIGNED
AAT
DRAWN
CHECKED
PDS 136

**LDPCSD - BARRETT COVE
PUMP BARGE REHABILITATION**

Kennedy/Jenks Consultants
10850 GOLD CENTER DRIVE, SUITE 350
RANCHO CORDOVA, CA 95670

**FLOATING BARGE
EXISTING BOTTOM HULL PLAN**

FILE NAME

JOB NO. 1770029*00

DATE 2018-05-29

SHEET

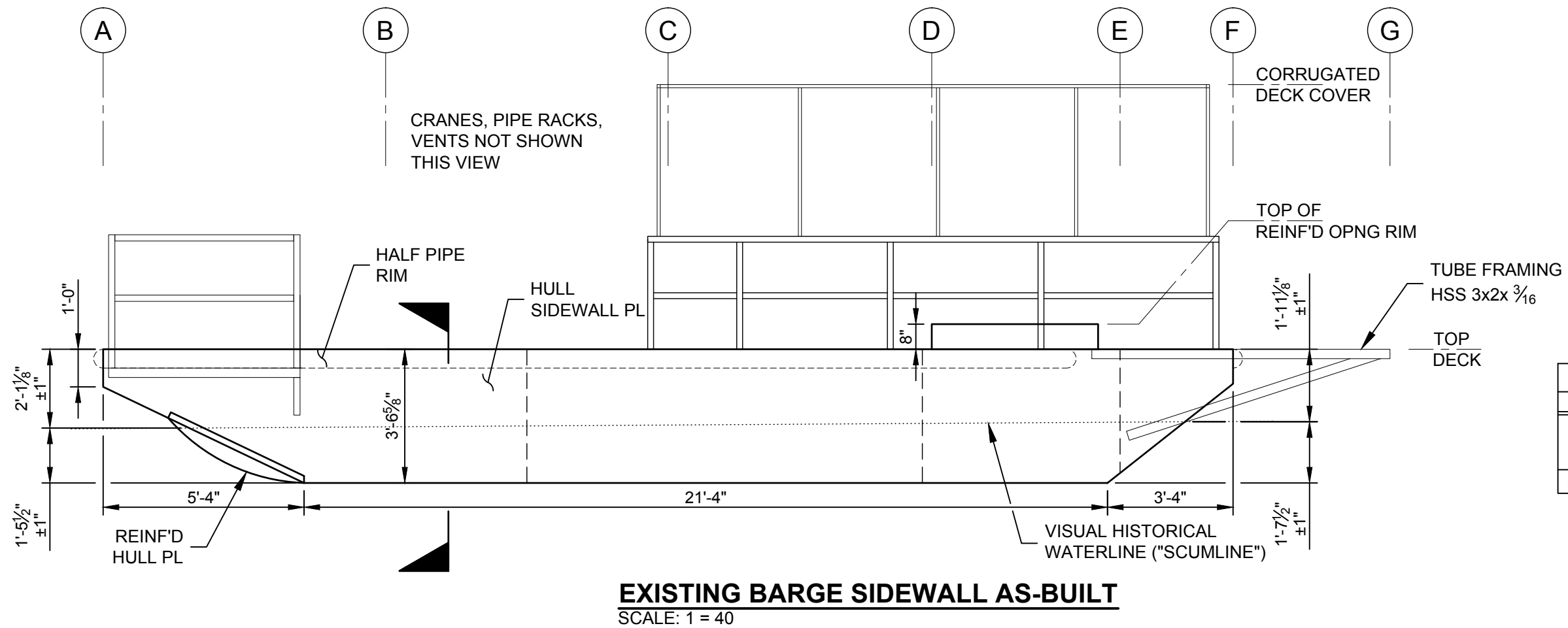
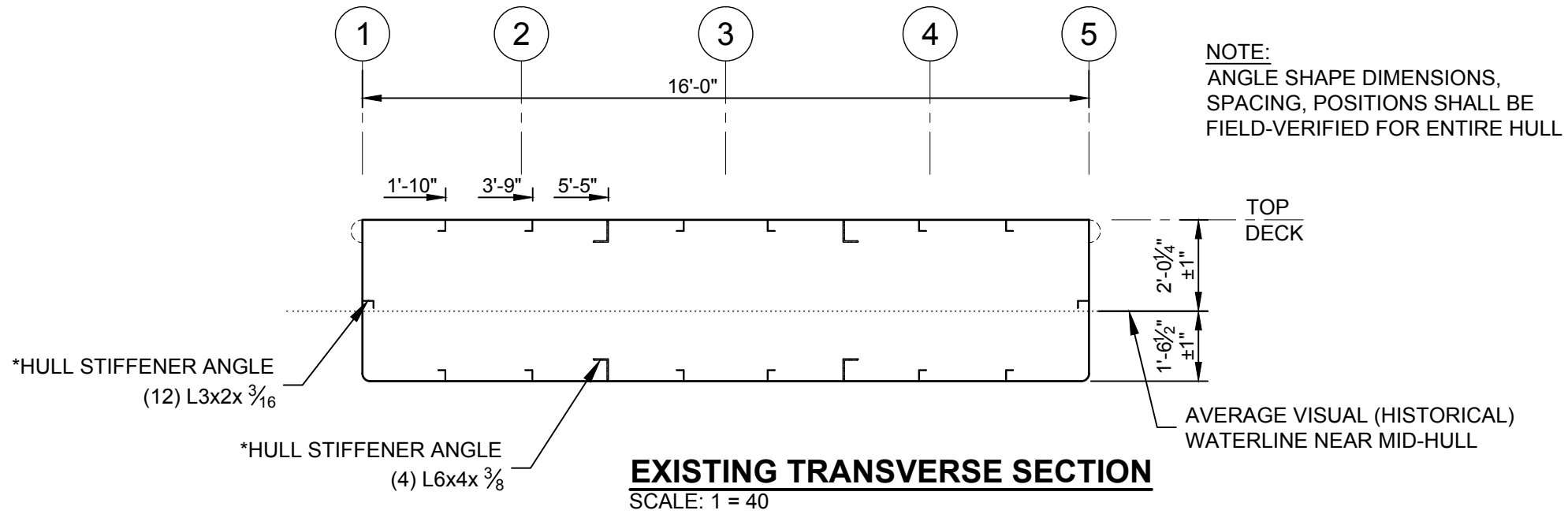
S1.2

5/29/2018 4:25 PM

AAARON TAYLOR

C:\Users\AaronTaylor\Desktop\KU Project Backup\Temp LDPCSD BarrettCoveBarge 1770029.00\CAD\1770029.00-S.dwg

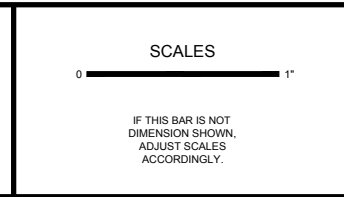
C:\Users\AaronTaylor\Desktop\KU Project Backup\Temp_LDPCSD BarrettCoveBarge_1770029.00\CAD\1770029.00-S.dwg
 5/29/2018 4:25 PM
 AARON TAYLOR



SIDEWALL DATA	
COMPONENT	PARAMETER
SIDEWALL FLAT GROSS AREA	95 sqft EACH SIDE
DECK PL THICK	*5/16"

USE OF DOCUMENTS

THIS DOCUMENT, INCLUDING THE INCORPORATED DESIGNS, IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF KENNEDYJENKS CONSULTANTS.



**100% DWGS
FOR CLIENT REVIEW
NOT FOR CONSTRUCTION**



DESIGNED
AAT

DRAWN

CHECKED
PDS 137

**LDPCSD - BARRETT COVE
PUMP BARGE REHABILITATION**

Kennedy/Jenks Consultants
10850 GOLD CENTER DRIVE, SUITE 350
RANCHO CORDOVA, CA 95670

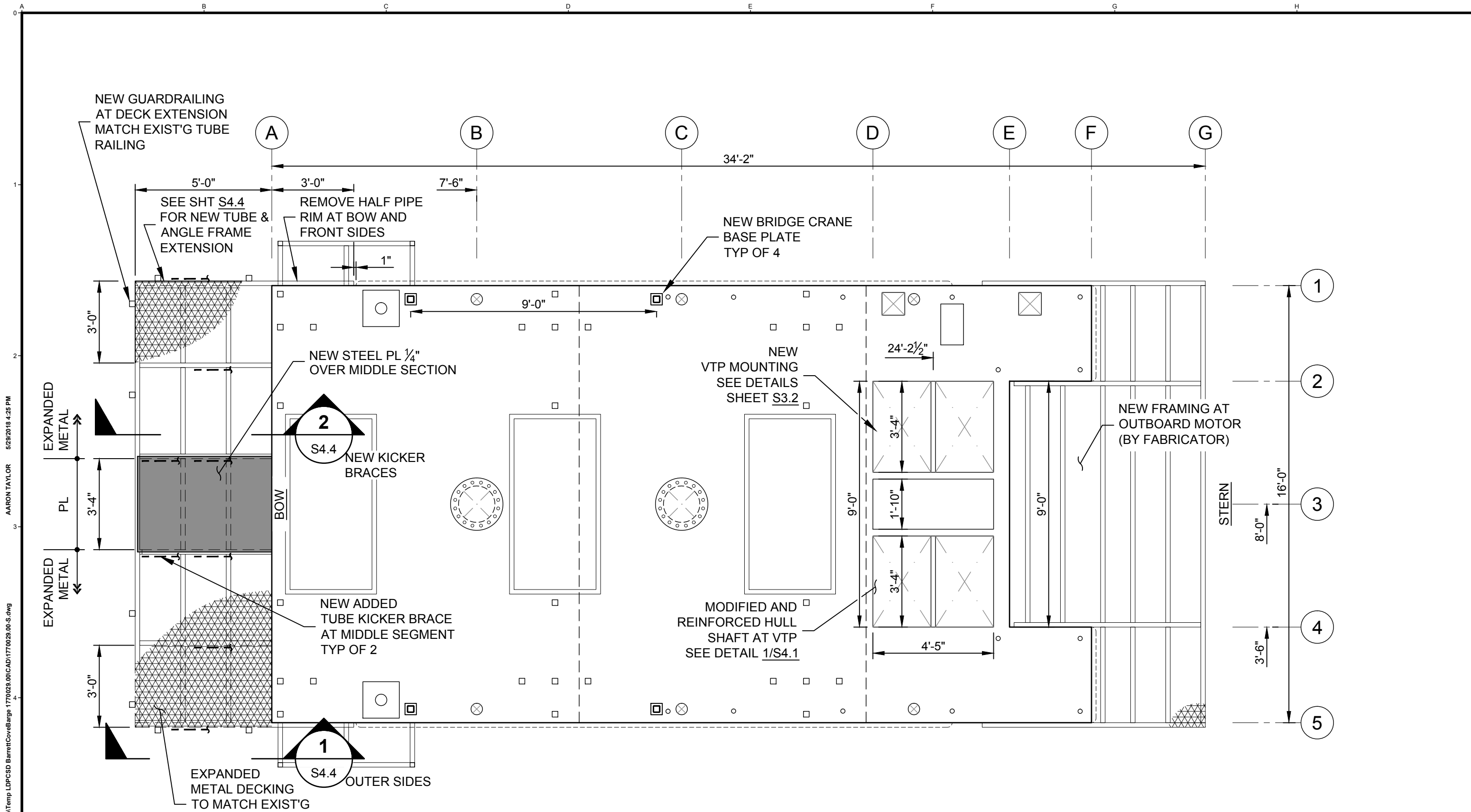
**FLOATING BARGE
EXISTING SIDE VIEWS**

FILE NAME

JOB NO.
1770029*00

DATE
2018-05-29

SHEET
S2.1



BARGE TOP DECK MODIFICATIONS

APPROX SCALE: 1 = 40

C:\Users\AaronTaylor\Desktop\KU Project Backup\Temp_LDPDSD BarrettCoveBarge 1770029.00\CAD\1770029.00-S.dwg
 AARON TAYLOR
 5/29/2018 4:25 PM

USE OF DOCUMENTS
 THIS DOCUMENT, INCLUDING THE INCORPORATED DESIGNS, IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF KENNEDY/JENKS CONSULTANTS.

SCALES
 0 ————— 1"
 IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

**100% DWGS
 FOR CLIENT REVIEW
 NOT FOR CONSTRUCTION**



DESIGNED
AAT
 DRAWN
 CHECKED
PDS 138

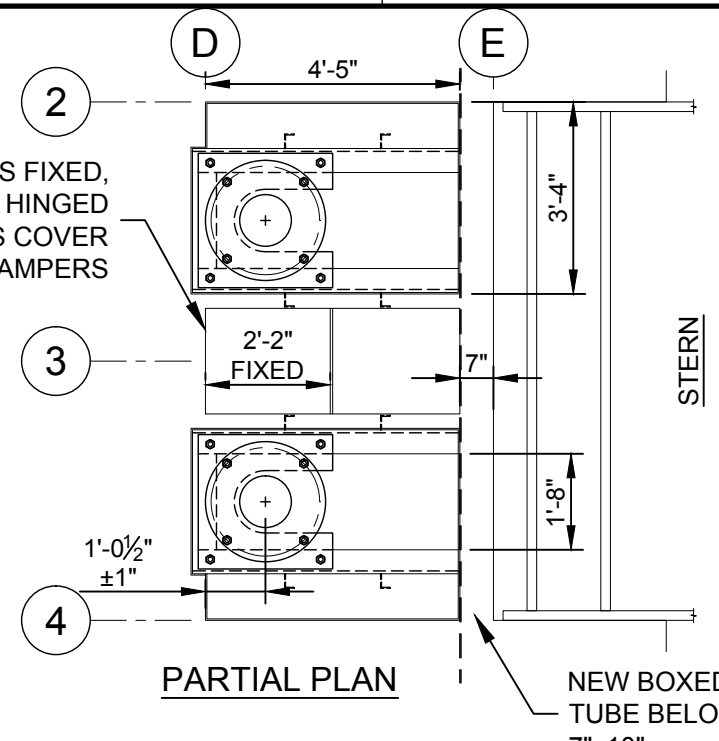
**LDPCSD - BARRETT COVE
 PUMP BARGE REHABILITATION**
 Kennedy/Jenks Consultants
 10850 GOLD CENTER DRIVE, SUITE 350
 RANCHO CORDOVA, CA 95670

**FLOATING BARGE
 TOP DECK PLAN MODIFICATIONS**

FILE NAME
 JOB NO. 1770029*00
 DATE 2018-05-29
 SHEET
S3.1

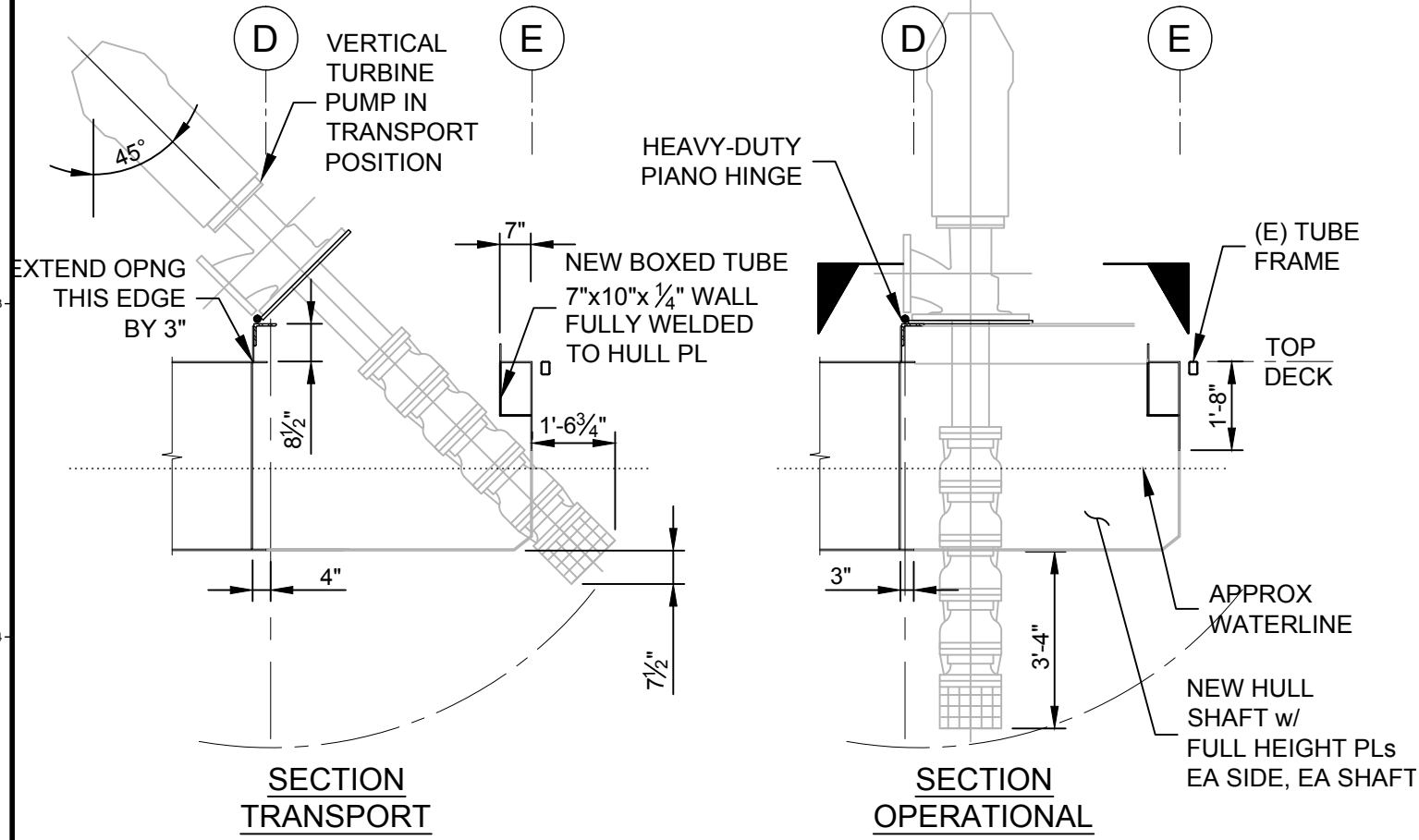
MODIFY: HALF OF COVER IS FIXED,
OTHER HALF IS HINGED
ACCESS COVER
W/ HYDRAULIC DAMPERS

SEE DRAWING SHEETS
S4.1 THRU S4.5
FOR STEEL DETAILS

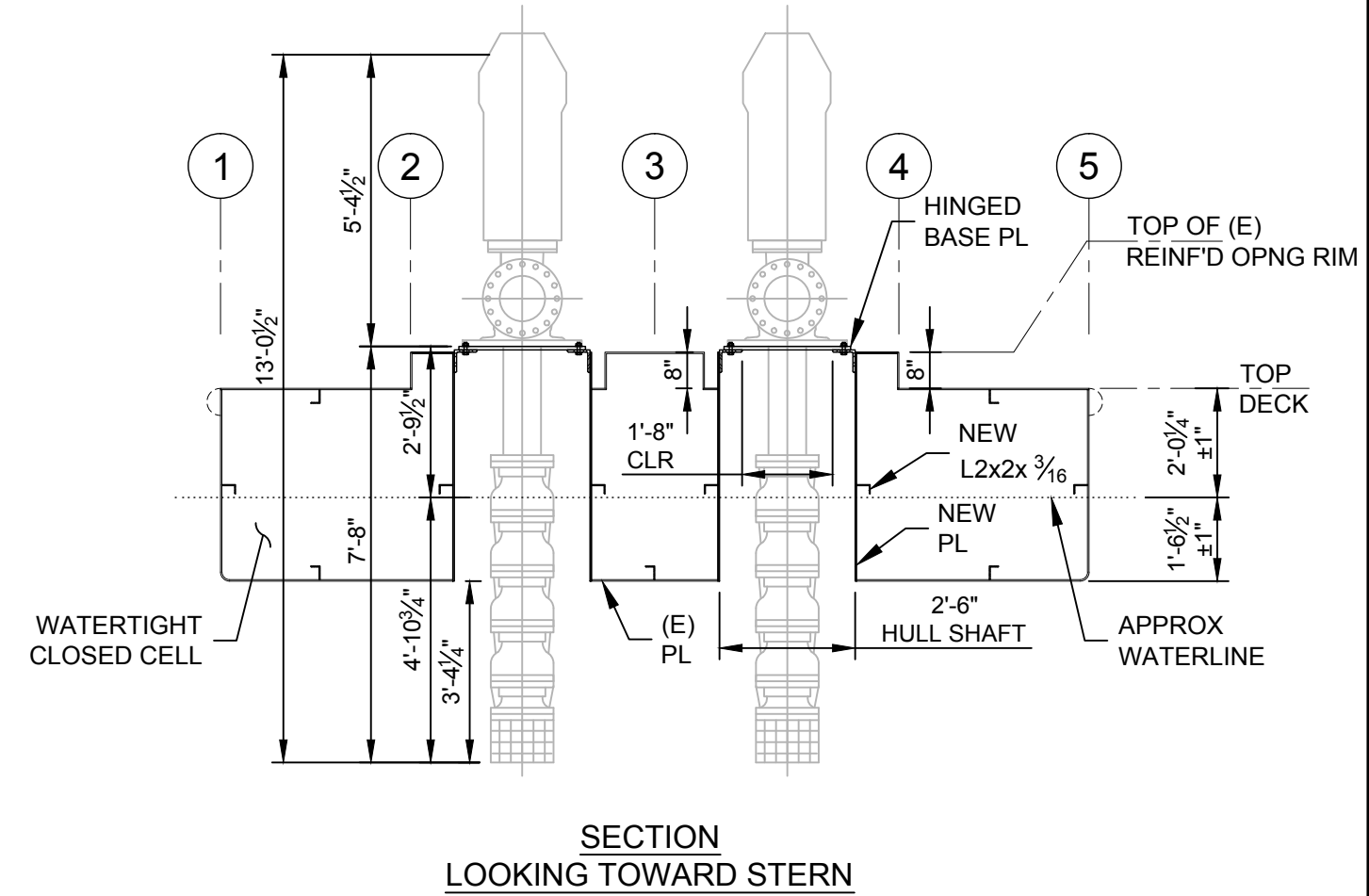


- STEEL FABBRICATION SCOPE NOTES:**
- CUT EXISTING HULL PLATE IN ENGINE COMPARTMENT AND REINFORCE SHAFT WITH NEW PL AND SINGLE ANGLE.
 - INSTALL NEW BASE PLATE FOR VERTICAL TURBINE PUMP ("VTP") WITH HEAVY DUTY PIANO-STYLE HINGE.
 - THE NEW OUTBOARD MOTOR MOUNT ("TRANSOM") AND STERN FRAMEWORK MODIFICATIONS ARE NOT SHOWN ON THIS DRAWING SET; CONTRACTOR SHALL PROVIDE COMPLETE DETAILED SHOP DRAWINGS FOR PROPOSED WORK FOR REVIEW BEFORE FABRICATION COMMENCES.

STEEL FABRICATION SCOPE 1



VTP POSITION IN NEW HULL SHAFT 3
APPROX SCALE: 1 = 40



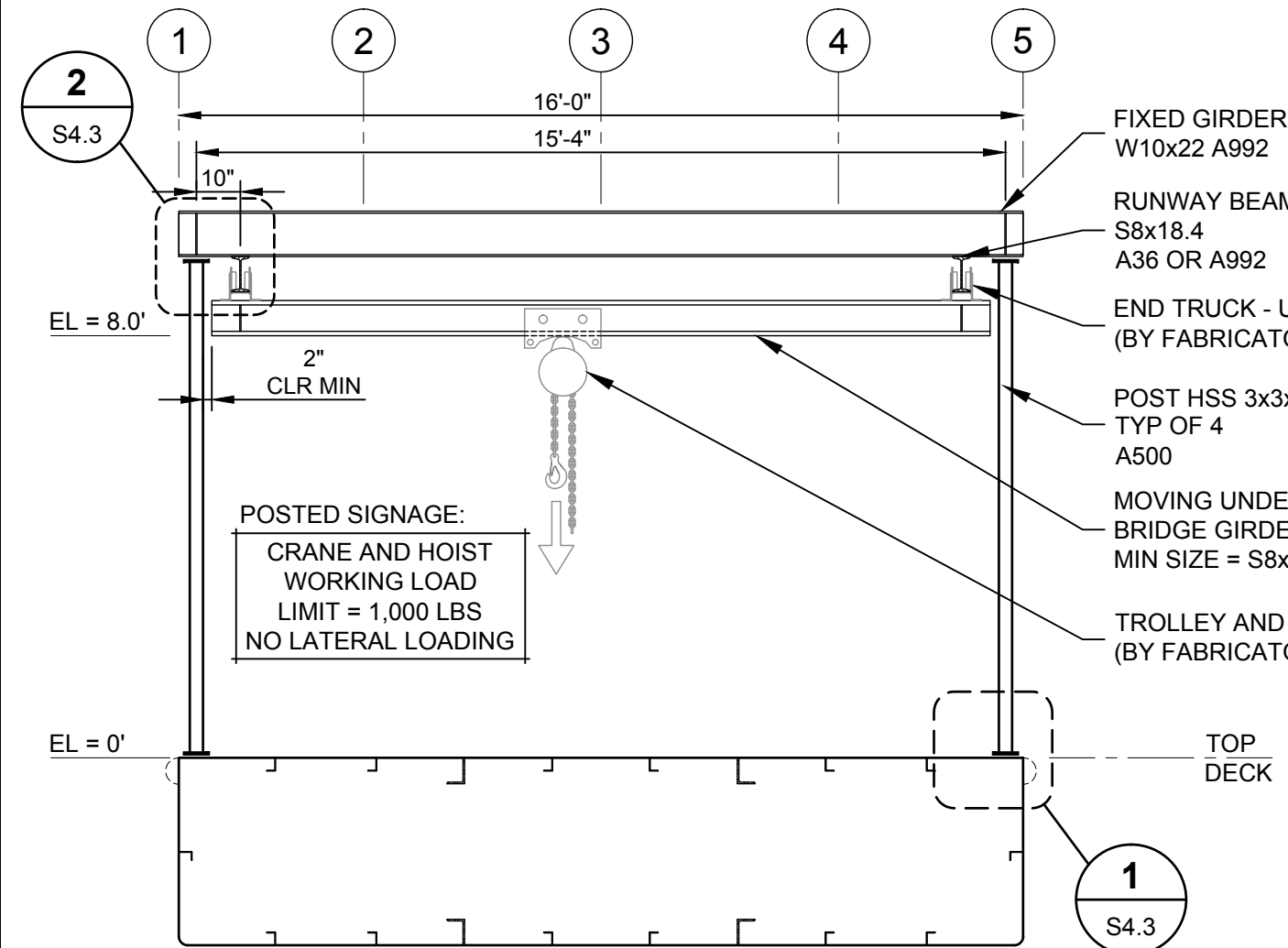
VTP POSITION IN NEW HULL SHAFT 2
APPROX SCALE: 1 = 40

AARON TAYLOR 5/29/2018 4:25 PM C:\Users\AaronTaylor\Desktop\KU Project Backup\Temp_LDPDSD BarrettCoveBarge 1770029.00\CAD\1770029.00-S.dwg

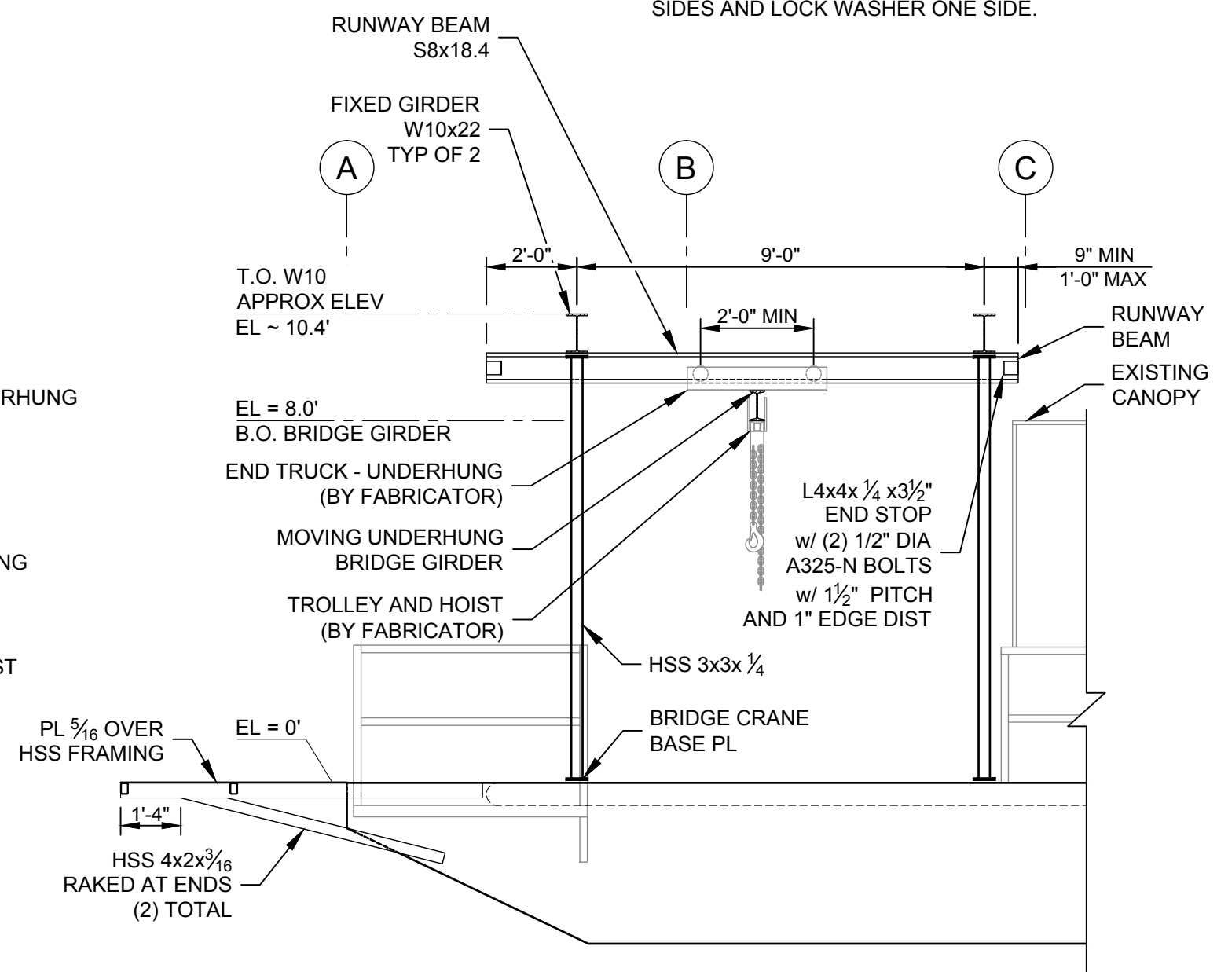
<p>USE OF DOCUMENTS</p> <p>THIS DOCUMENT, INCLUDING THE INCORPORATED DESIGNS, IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF KENNEDY/JENKS CONSULTANTS.</p>	<p>SCALES</p> <p>0 ————— 1"</p> <p>IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.</p>	<p>100% DWGS FOR CLIENT REVIEW NOT FOR CONSTRUCTION</p>		<p>DESIGNED: AAT DRAWN: CHECKED: PDS 139</p>	<p>LDPCSD - BARRETT COVE PUMP BARGE REHABILITATION</p> <p>Kennedy/Jenks Consultants 10850 GOLD CENTER DRIVE, SUITE 350 RANCHO CORDOVA, CA 95670</p>	<p>FLOATING BARGE VERTICAL TURBINE PUMP MOUNTING</p>	<p>FILE NAME: JOB NO.: 1770029*00 DATE: 2018-05-29 SHEET: S3.2</p>
--	---	--	--	--	--	---	---

NOTES:

1. ALL STEEL SHALL RECEIVE A HIGH PERFORMANCE PROTECTIVE COATING, OR BE HOT-DIP GALV.
2. BOLTED CONNECTIONS REQUIRE WASHERS BOTH SIDES AND LOCK WASHER ONE SIDE.



SECTION AT CRANE POST - TOWARD BOW
SCALE: 1 = 40



SIDE ELEVATION AT CRANE - TOWARD PORT SIDE
SCALE: 1 = 40

AARON TAYLOR 5/29/2018 4:25 PM

C:\Users\AaronTaylor\Desktop\KU Project Backup\Temp_LDPCSD BarrettCoveBarge 1770029.00\CAD\1770029.00-S.dwg

USE OF DOCUMENTS
THIS DOCUMENT, INCLUDING THE INCORPORATED DESIGNS, IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF KENNEDY/JENKS CONSULTANTS.



100% DWGS FOR CLIENT REVIEW NOT FOR CONSTRUCTION

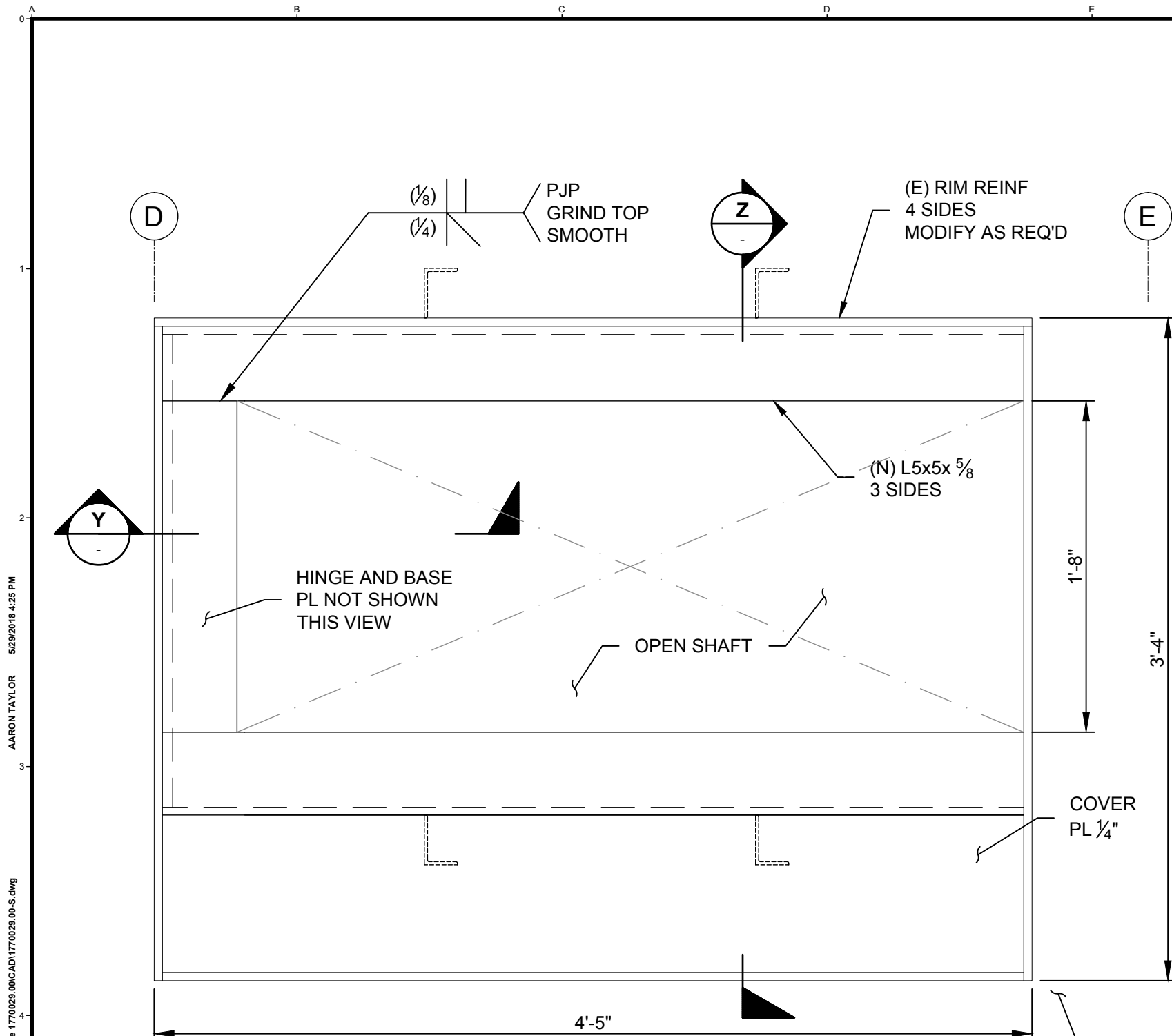


DESIGNED: AAT
DRAWN:
CHECKED: PDS 140

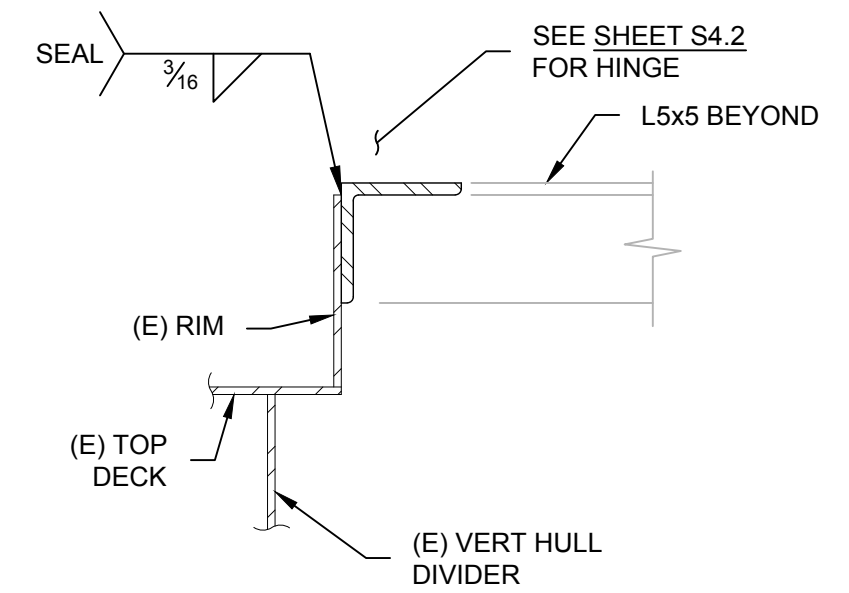
LDPCSD - BARRETT COVE PUMP BARGE REHABILITATION
Kennedy/Jenks Consultants
10850 GOLD CENTER DRIVE, SUITE 350
RANCHO CORDOVA, CA 95670

FLOATING BARGE CRANE SECTIONS

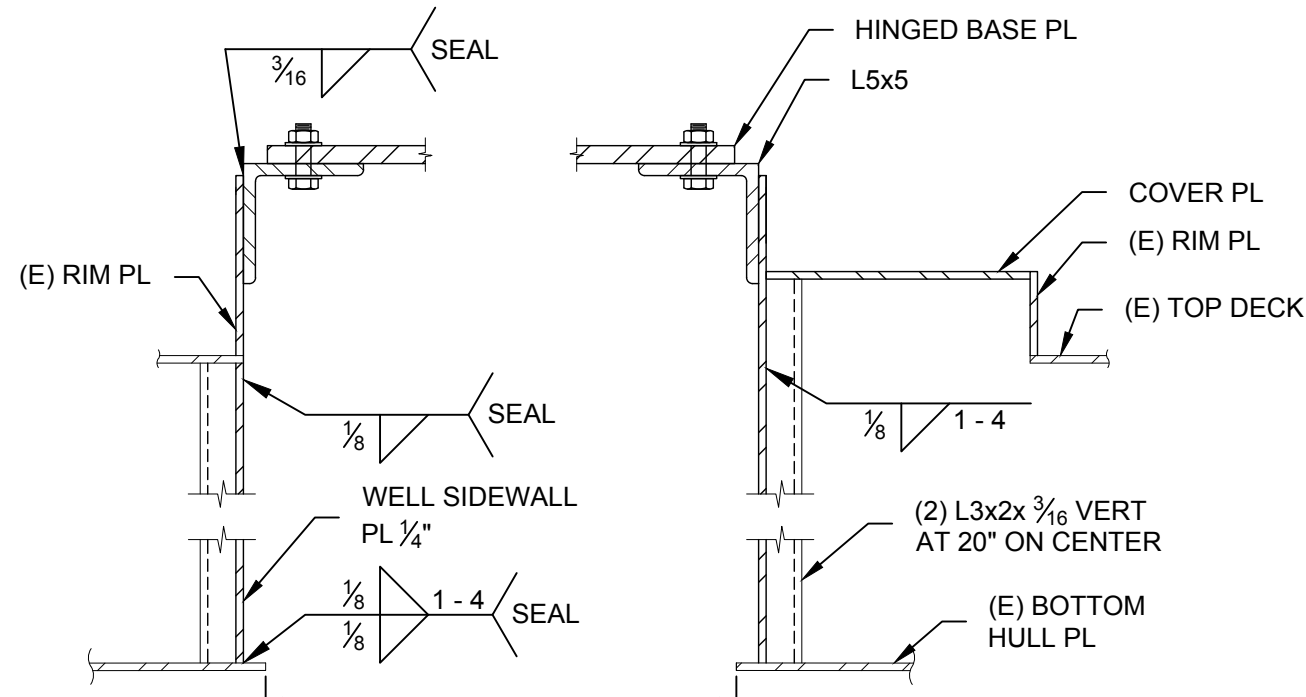
FILE NAME:
JOB NO.: 1770029*00
DATE: 2018-05-29
SHEET: **S3.3**



(X) PARTIAL PLAN



(Y) SECTION AT HINGE END



(Z) SECTION - TRANSV

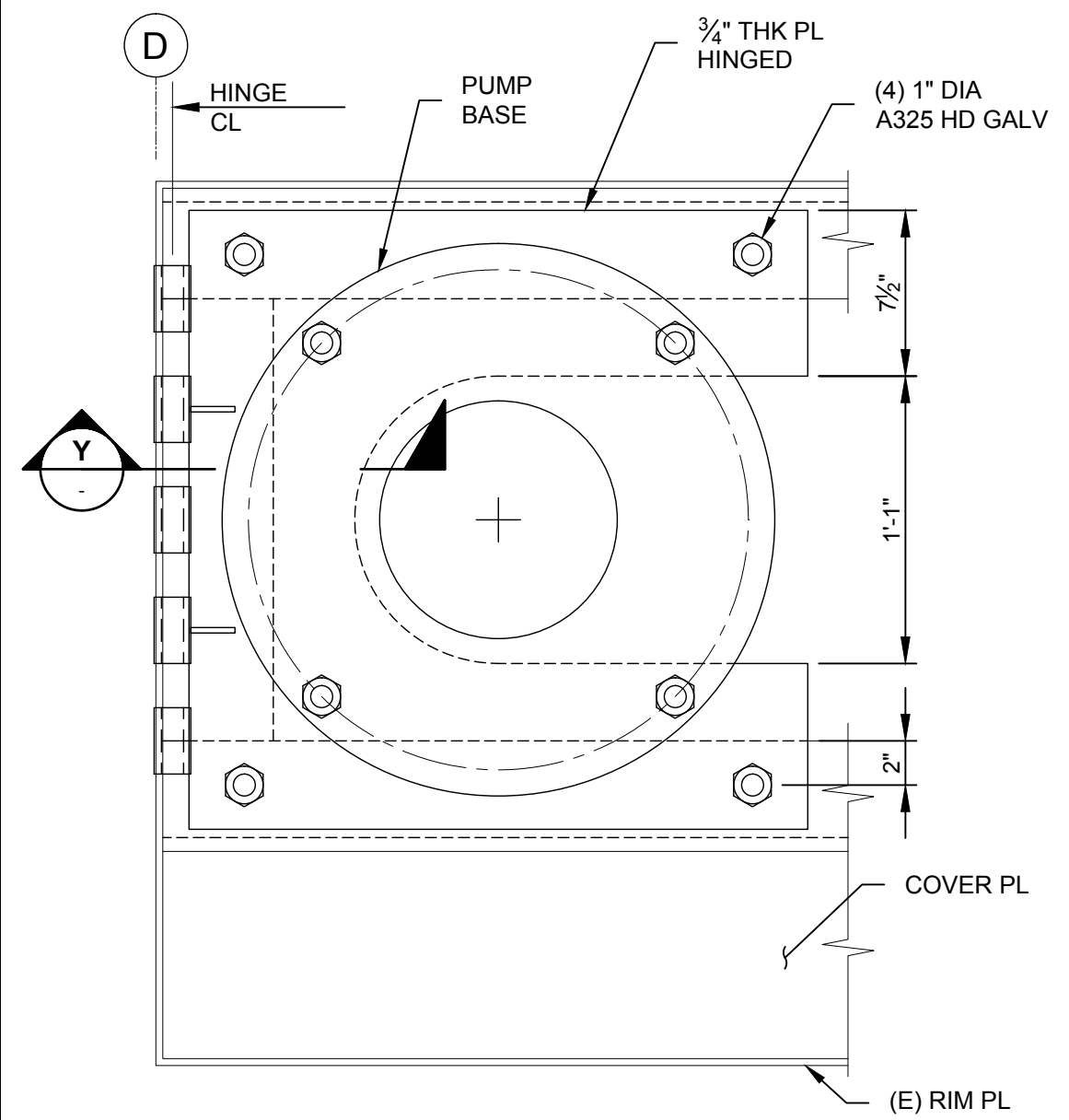
NEW BOX SECTION BELOW NOT SHOWN THIS VIEW

REINFORCED HULL SHAFT AT VTP 1
APPROX SCALE: 1 = 8

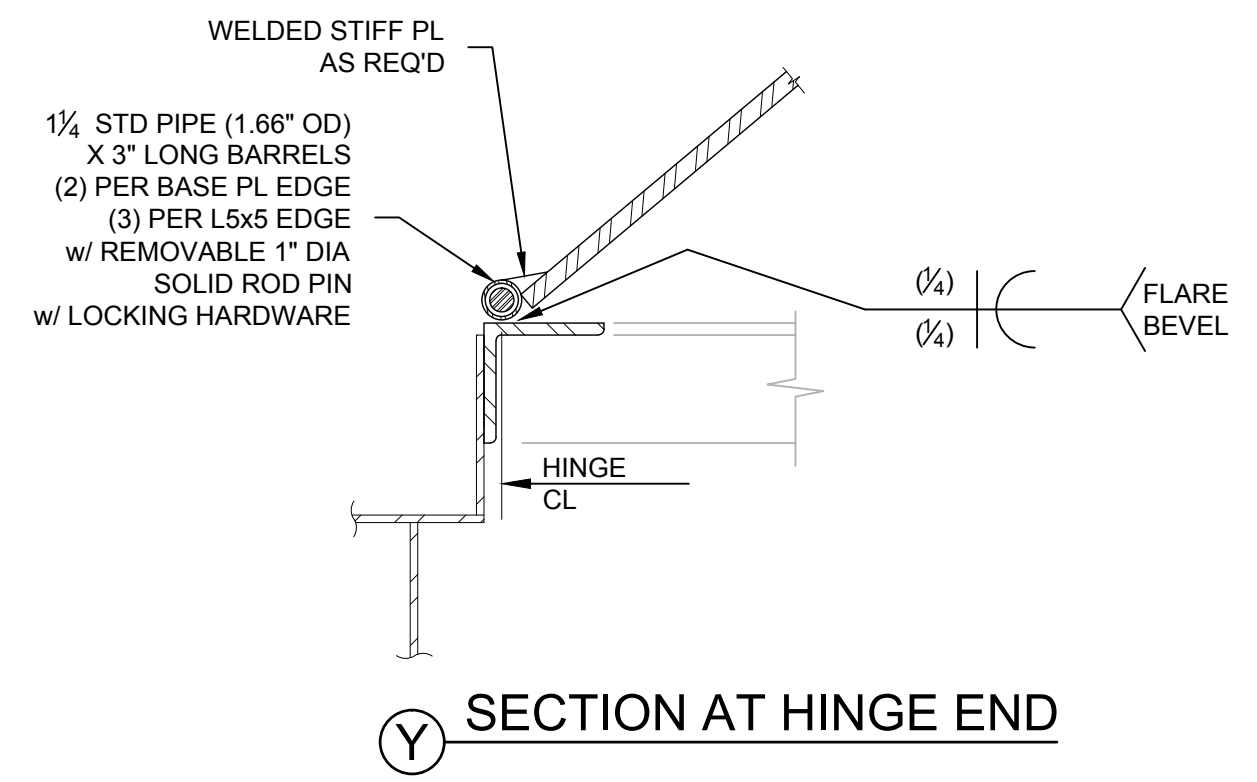
C:\Users\Aaron Taylor\Desktop\KU Project Backup\Temp_LDP_CSD BarrettCove\Barge 1770029.00\CAD\1770029.00-S.dwg
AAARON TAYLOR 5/29/2018 4:25 PM

<p>USE OF DOCUMENTS</p> <p>THIS DOCUMENT, INCLUDING THE INCORPORATED DESIGNS, IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF KENNEDY/JENKS CONSULTANTS.</p>	<p>SCALES</p> <p>0 ————— 1"</p> <p>IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.</p>	<p>100% DWGS FOR CLIENT REVIEW NOT FOR CONSTRUCTION</p>		<p>DESIGNED: AAT DRAWN: CHECKED: PDS 141</p>	<p>LDPCSD - BARRETT COVE PUMP BARGE REHABILITATION</p> <p>Kennedy/Jenks Consultants 10850 GOLD CENTER DRIVE, SUITE 350 RANCHO CORDOVA, CA 95670</p>	<p>FLOATING BARGE FABRICATION DETAILS - 1</p>	<p>FILE NAME: JOB NO.: 1770029*00 DATE: 2018-05-29 SHEET: S4.1</p>
---	--	--	--	--	--	--	---

C:\Users\AaronTaylor\Desktop\KU Project Backup\Temp LDPCSD BarrettCoveBarge 1770029.00\CAD\1770029.00-S.dwg
 AARON TAYLOR 5/29/2018 4:25 PM



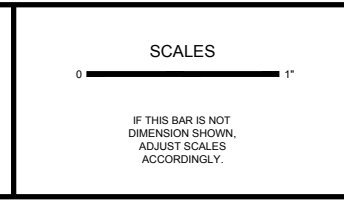
(X) PARTIAL PLAN



(Y) SECTION AT HINGE END

HINGED BASE PL 1
 APPROX SCALE: 1 = 8

USE OF DOCUMENTS
 THIS DOCUMENT, INCLUDING THE INCORPORATED DESIGNS, IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF KENNEDY/JENKS CONSULTANTS.



**100% DWGS
 FOR CLIENT REVIEW
 NOT FOR CONSTRUCTION**



DESIGNED: AAT
 DRAWN:
 CHECKED: PDS 142

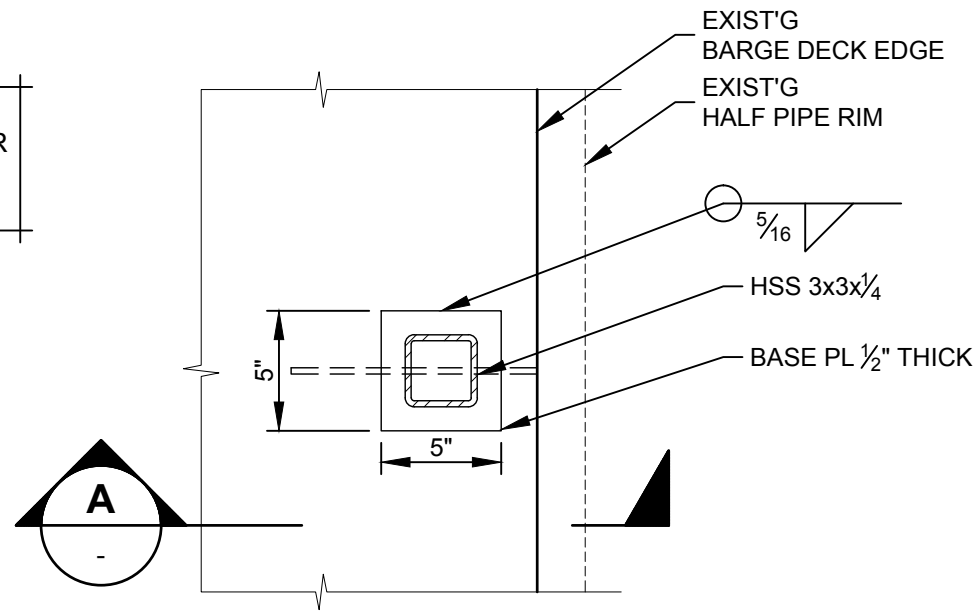
**LDPCSD - BARRETT COVE
 PUMP BARGE REHABILITATION**

Kennedy/Jenks Consultants
 10850 GOLD CENTER DRIVE, SUITE 350
 RANCHO CORDOVA, CA 95670

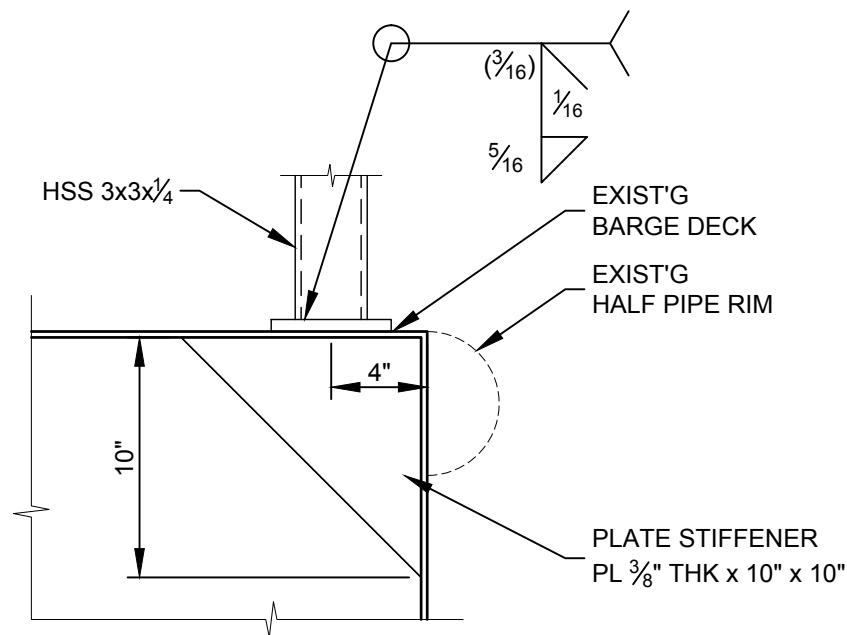
**FLOATING BARGE
 FABRICATION DETAILS - 2**

FILE NAME:
 JOB NO.: 1770029*00
 DATE: 2018-05-29
 SHEET: **S4.2**

ALTERNATE DETAIL:
SEE DETAIL 1/S4.5 FOR
ALTERNATE BASE PL
CONSTRUCTION

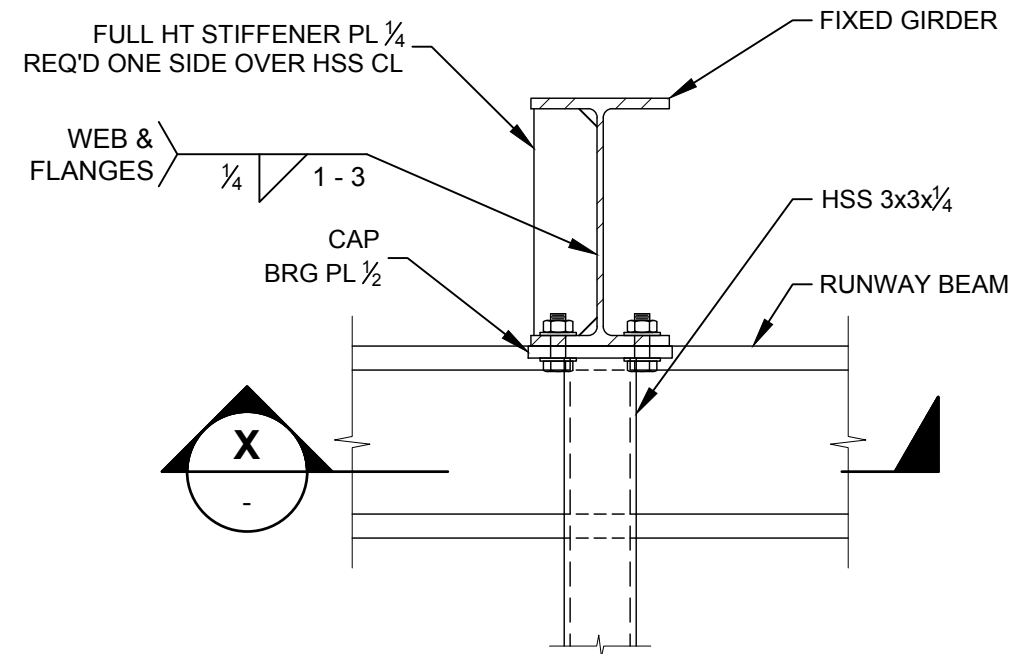


(B) BASE PLATE PLAN



(A) SIDE SECTION

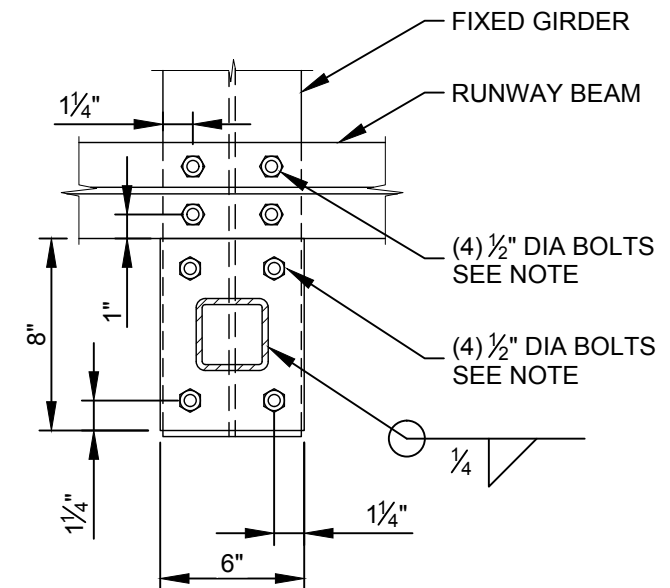
BRIDGE CRANE BASE PLATE 1
APPROX SCALE: 1 = 8
S3.3



(Y) SIDE SECTION

NOTE:

- BOLTS ARE A325-N HDG PRETENSIONED W/ STD WASHERS AND LOCK WASHERS.
- USE BEVEL WASHERS AS REQ'D AT SLOPED FLANGES.



(X) PLAN - LOOKING UP

GIRDER AND RUNWAY BEAMS AT HSS CAP 2
APPROX SCALE: 1 = 8
S3.3

USE OF DOCUMENTS

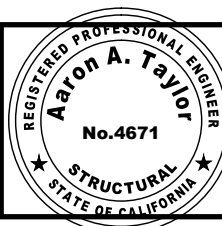
THIS DOCUMENT, INCLUDING THE INCORPORATED DESIGNS, IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF KENNEDY/JENKS CONSULTANTS.

SCALES



IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

**100% DWGS
FOR CLIENT REVIEW
NOT FOR CONSTRUCTION**



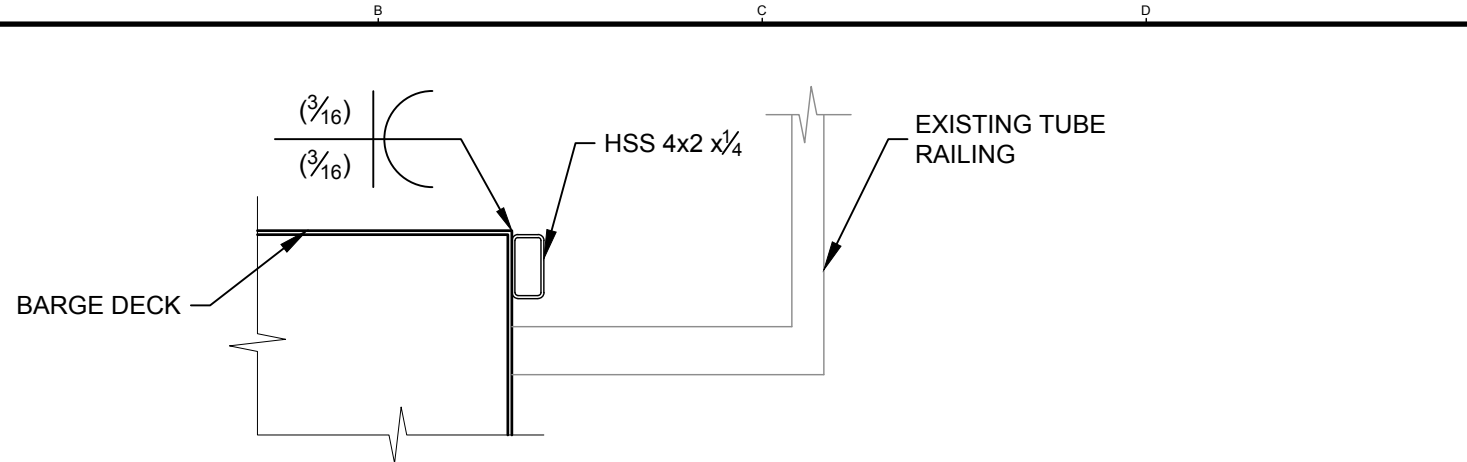
DESIGNED
AAT
DRAWN
CHECKED
PDS 143

**LDPCSD - BARRETT COVE
PUMP BARGE REHABILITATION**

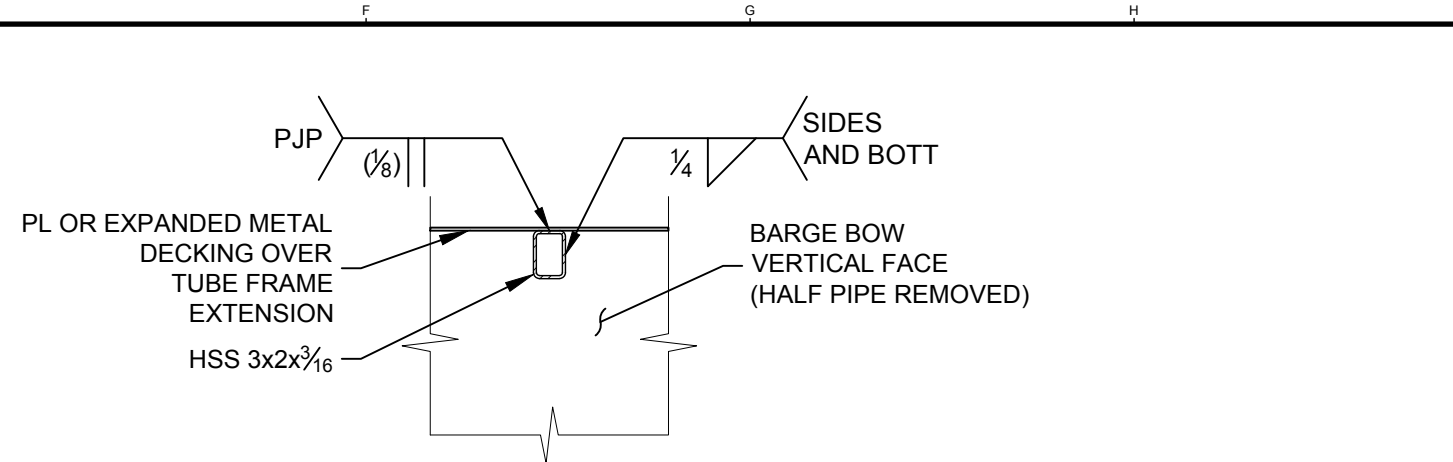
Kennedy/Jenks Consultants
10850 GOLD CENTER DRIVE, SUITE 350
RANCHO CORDOVA, CA 95670

**FLOATING BARGE
FABRICATION DETAILS - 3**

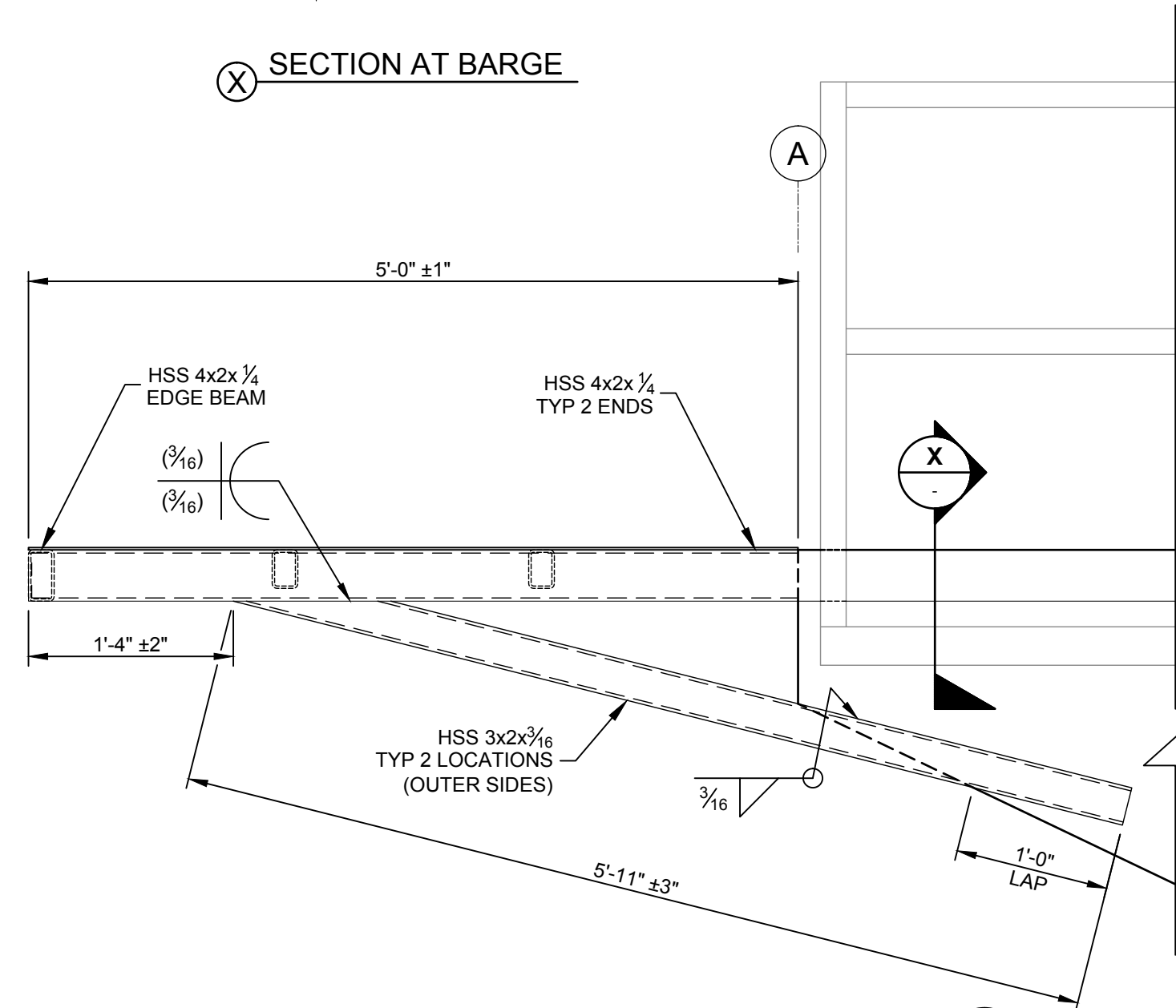
FILE NAME
JOB NO.
1770029*00
DATE
2018-05-29
SHEET
S4.3



(X) SECTION AT BARGE

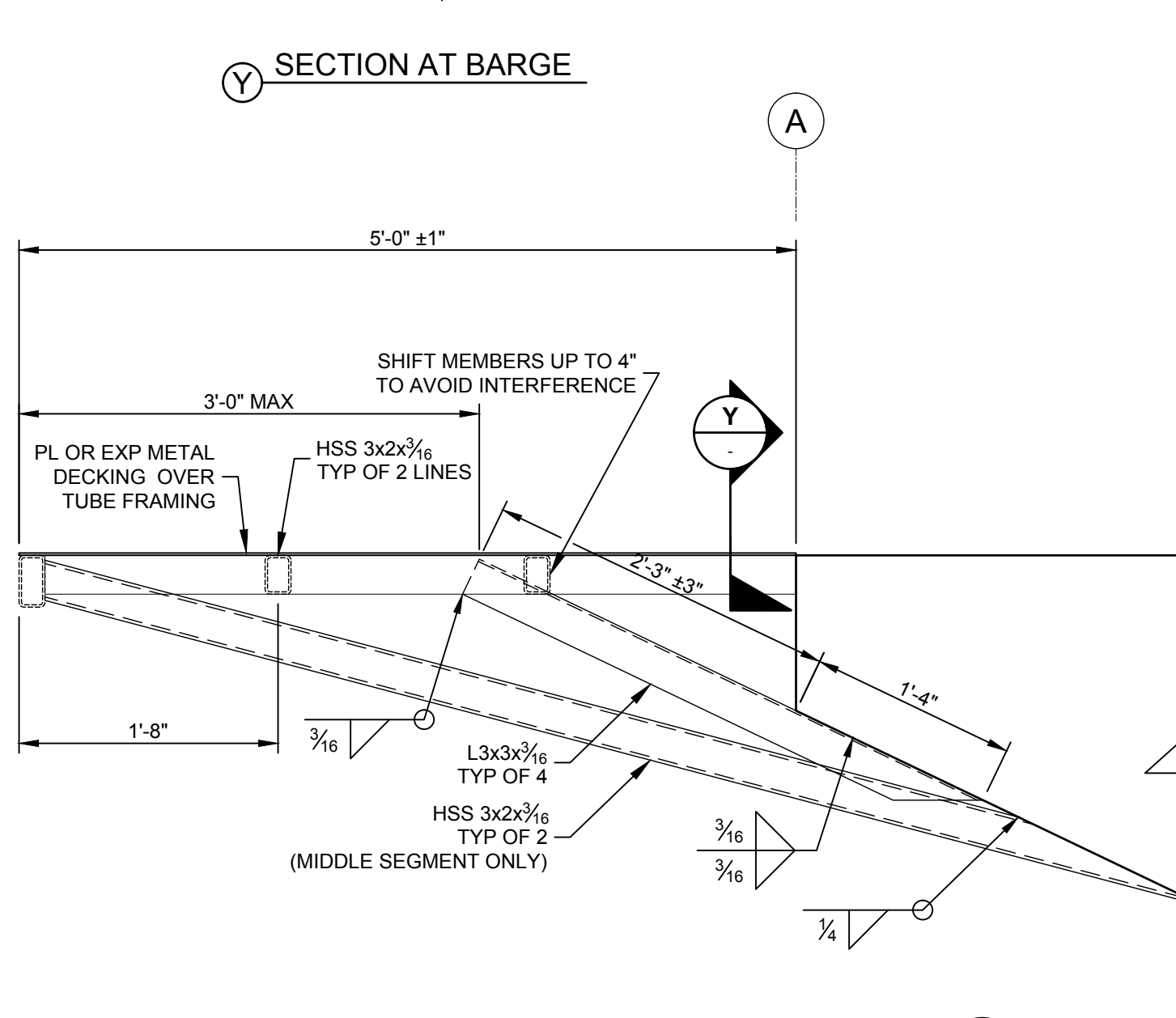


(Y) SECTION AT BARGE



TUBE FRAME EXTENSION - END CONNECTION
APPROX SCALE: 1 = 12

1
S3.1



TUBE FRAME EXTENSION - KICKER BRACE
APPROX SCALE: 1 = 12

2
S3.1

C:\Users\AaronTaylor\Desktop\KU Project Backup\Temp LDPCSD BarrettCoveBarge 1770029.00\CAD\1770029.00-S.dwg
AARON TAYLOR 5/29/2018 4:28 PM

USE OF DOCUMENTS
THIS DOCUMENT, INCLUDING THE INCORPORATED DESIGNS, IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF KENNEDYJENKS CONSULTANTS.

SCALES
0 1"
IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

100% DWGS FOR CLIENT REVIEW NOT FOR CONSTRUCTION



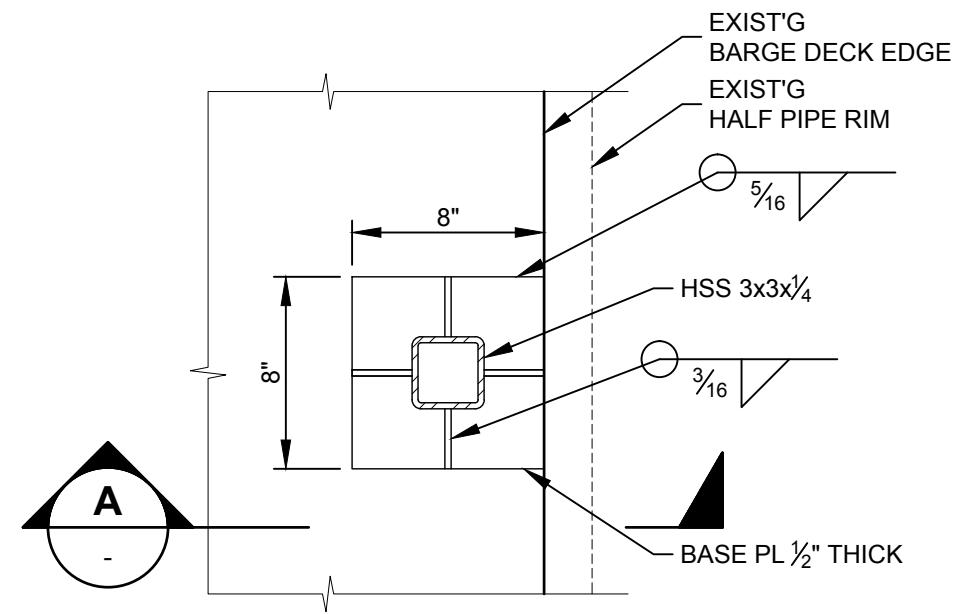
DESIGNED AAT
DRAWN
CHECKED PDS 144

LDPCSD - BARRETT COVE PUMP BARGE REHABILITATION
Kennedy/Jenks Consultants
10850 GOLD CENTER DRIVE, SUITE 350
RANCHO CORDOVA, CA 95670

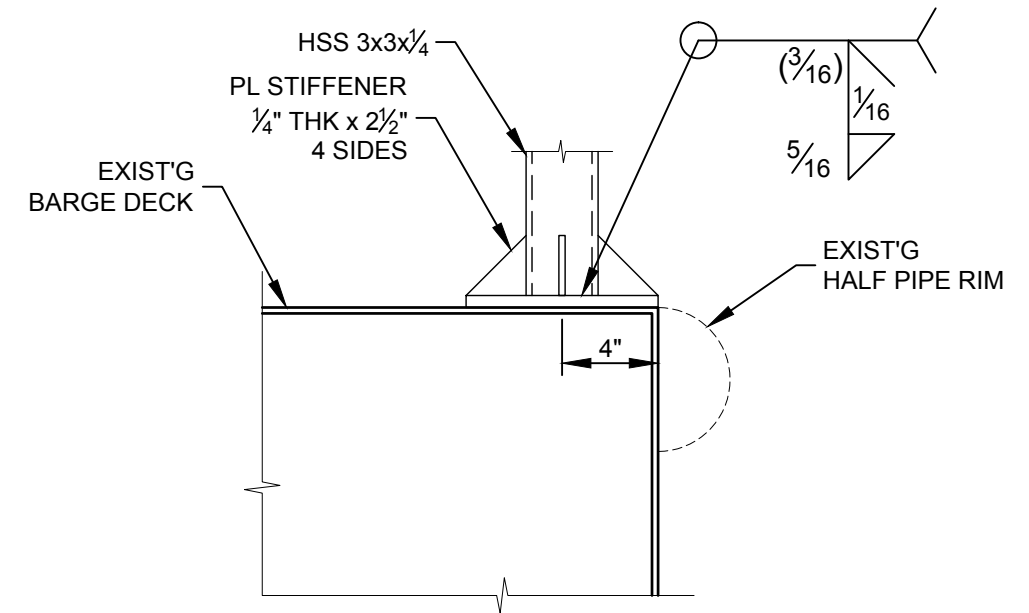
FLOATING BARGE FABRICATION DETAILS - 4

FILE NAME
JOB NO. 1770029*00
DATE 2018-05-29
SHEET **S4.4**

C:\Users\AaronTaylor\Desktop\KU Project Backup\Temp LDPCSD BarrettCoveBarge 1770029.00\CAD\1770029.00-S.dwg
 AARON TAYLOR
 5/29/2018 4:28 PM



(B) BASE PLATE PLAN



(A) SIDE SECTION

ALTERNATE - BRIDGE CRANE BASE PLATE 1
 APPROX SCALE: 1 = 8 S3.3

<p>USE OF DOCUMENTS</p> <p><small>THIS DOCUMENT, INCLUDING THE INCORPORATED DESIGNS, IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF KENNEDYJENKS CONSULTANTS.</small></p>	<p>SCALES</p> <p>0 ————— 1"</p> <p><small>IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.</small></p>	<p>100% DWGS FOR CLIENT REVIEW NOT FOR CONSTRUCTION</p>		<p>DESIGNED: AAT</p> <p>DRAWN:</p> <p>CHECKED: PDS 145</p>	<p>LDPCSD - BARRETT COVE PUMP BARGE REHABILITATION</p> <p><small>Kennedy/Jenks Consultants 10850 GOLD CENTER DRIVE, SUITE 350 RANCHO CORDOVA, CA 95670</small></p>	<p>FLOATING BARGE FABRICATION DETAILS - 5</p>	<p>FILE NAME</p> <p>JOB NO. 1770029*00</p> <p>DATE 2018-05-29</p> <p>SHEET S4.5</p>
---	---	--	--	--	---	--	--

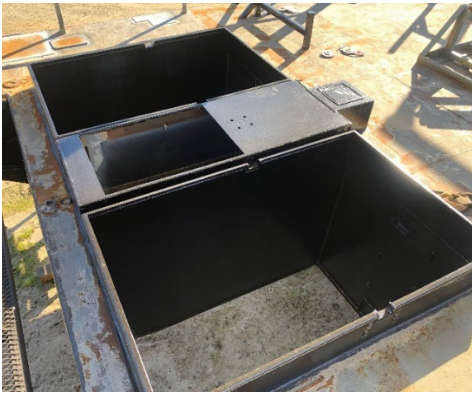
Appendix E

Pump Station and Barge Photos

Raw Water Intake Pump Station Photos



Barge Photos (Construction Progress)



Appendix F

Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan 2018 Annex V

**Tuolumne County
Multi-Jurisdictional
Hazard Mitigation Plan
2018**

**Annex V: Lake Don Pedro
Community Services District**



ANNEX V: LAKE DON PEDRO COMMUNITY SERVICES DISTRICT

I. JURISDICTION PROFILE4

II. PLANNING PROCESS.....5

A. DMA 2000 Requirements5

B. Plan Development and Public Input Process5

C. Jurisdiction Specific Planning and Approval Process6

III. RISK ASSESSMENT7

A. DMA 2000 Requirements7

B. Jurisdiction Specific Risks7

C. Jurisdiction Specific Hazard Event History8

D. Jurisdiction Specific Hazard Ranking10

IV. VULNERABILITY ASSESSMENT11

A. Overview11

B. DMA 2000 Requirements12

C. Critical Facilities and Infrastructure12

D. Jurisdictional Assets at Risk to Applicable Hazards13

E. Methodology Used13

F. Loss Estimations.....13

G. Development Trend Analysis.....14

V. CAPABILITY ASSESSMENT14

A. Legal and Regulatory14

B. Administrative and Technical14

C. Financial15

D. Physical Assets15

E. Political Will of Community15

VI. MITIGATION STRATEGY15

A. DMA 2000 Requirements15

B. 2013 Mitigation Action Progress Report15

C. Goals, Objectives and Mitigation Actions 201817

D. How Mitigation Goals Address Buildings and Infrastructure25

VII. MITIGATION ACTION IMPLEMENTATION29

A. DMA 2000 Requirements29

B. Prioritization of Mitigation Actions29



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

C. Action Plan.....	30
D. Implementation Through Existing Plans and Programs	35
E. Continued Public Involvement.....	35
F. Plan Maintenance, Updating and Evaluating	35
ACRONYMS.....	37
Plan Approval Documentation - Resolution No. 2017-19.....	38

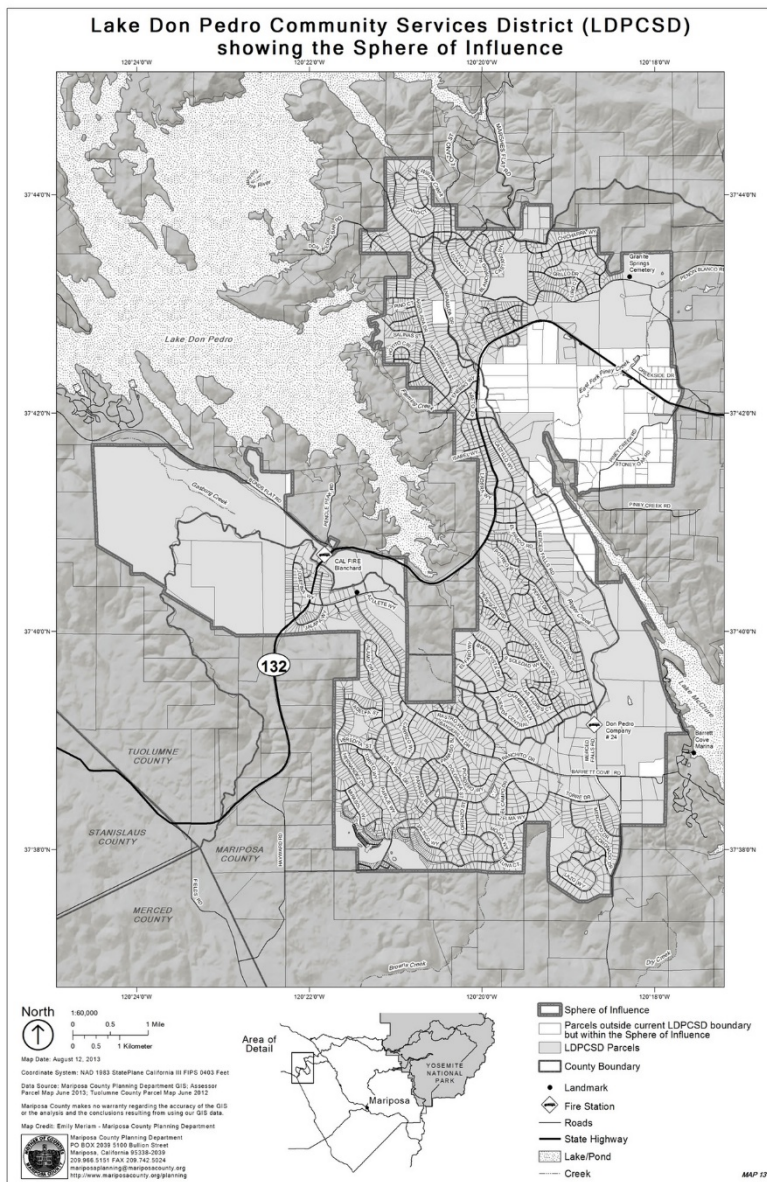


Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

LAKE DON PEDRO COMMUNITY SERVICES DISTRICT

I. Jurisdiction Profile

The Lake Don Pedro Community Services District (LDPCSD) provides municipal potable water services to a current population of 2,700 through approximately 1,400 active connections in the rural residential community of Don Pedro; which lies between Lake McClure and Lake Don Pedro in Mariposa and Tuolumne Counties. The LDPCSD water system is also designed to serve an additional 1,900 vacant parcels that exist within the community. The LDPCSD service area is composed of 60 percent Mariposa County parcels (1,920 parcels), and 40 percent Tuolumne County parcels (1,280 parcels).



The LDPCSD water supply is derived from surface water from Lake McClure; through a contract with Merced Irrigation District, and four groundwater wells. The Lake McClure surface water intake consists of two 200 Horsepower submersible pumps fixed to the shore of the reservoir and capable of pumping down to a water surface elevation of 710 above sea level. An emergency floating pump system is used to pump water from Lake McClure when the water surface elevation drops below 710 feet ASL, down to a minimum pool elevation of 560 feet ASL; beyond which no surface water is available. One groundwater well was installed to provide water supply to LDPCSD customers outside of the Place of Use for Lake McClure water supply under the MEID water right, and three additional wells were installed to provide emergency water supply during the drought of 2013 – 2016; at which time the Lake McClure water surface elevation was predicted to drop below 560 ASL.



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

The estimated yield of the four wells combined is approximately 355 gallons per minute, and the peak customer water demand, under mandatory 50% water restrictions, was approximately 464 gallons per minute in July 2015.

The LDPCSD water treatment plant is a conventional filtration system surface water plant, and its water distribution system consists of 7 treated water storage tanks, 1 raw water storage tank, six booster pump sites, three hydropneumatics systems, eleven pressure regulating stations, 821 main isolation valves and 485 fire hydrants. Water mains range in size from 2-inch PVC to 12-inch asbestos cement.

II. PLANNING PROCESS

A. DMA 2000 Requirements

**DMA Requirements
§201.6(b) and
§201.6(c)(1):**

An open public involvement process is essential to the development of an effective plan. In order to develop a more comprehensive approach to reducing the effects of natural disasters, the planning process shall include:

- (1) An opportunity for the public to comment on the plan during the drafting stage and prior to plan approval;
- (2) An opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, and agencies that have the authority to regulate development, as well as businesses, academia and other private and non-profit interests to be involved in the planning process; and
- (3) Review and incorporation, if appropriate, of existing plans, studies, reports, and technical information.

The plan shall document the planning process used to develop the plan, including how it was prepared, who was involved in the process, and how the public was involved.

B. Plan Development and Public Input Process/Countywide Elements

Volume 1 is the master planning document which contains all elements applicable to the County of Tuolumne and each of the 22 individual jurisdictions. Plan development commenced with a review and revision of the updated 2013 Hazard Mitigation Plan. Each of the participating jurisdictions participated fully in the mitigation plan update.

A news release was developed and issued and informative letters were sent out to community groups and neighboring jurisdictions inviting public participation. A Hazard Mitigation Planning Group was constructed with representatives from all involved jurisdictions and community stakeholders. Planning group meetings were held which explained the process that was going to be taken to construct the new



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

plan, reviewed hazards of concern and hazard rankings, and explained the risks and vulnerability to the communities' people, buildings and infrastructure. Mitigation goals, objectives and actions were discussed and reviewed thoroughly with all planning group members until concurrence was reached. A capability assessment and action plan were developed to ensure mitigation actions were realistic and attainable and to assign funding sources and responsibility for each proposed activity.

After the MJHMP Planning Group Members, their respective jurisdictions, and Tuolumne County Office of Emergency Services were all satisfied with the newly updated draft plan and its mitigation goal, objectives and actions, a noticed public hearing occurred at the County Emergency Operation's Center. This meeting was widely advertised both locally and in neighboring counties to provide an opportunity for the general public, bordering communities and regional agencies involved in hazard mitigation activities to participate in the planning process. Notice of the public hearing was posted, two weeks in advance, on the County website, community bulletin boards and through a press release. Notification letters were sent to Office of Emergency Services managers in all neighboring Counties. Several weeks prior to the hearing, the newly constructed Plan was posted on the County website to enable the public and stakeholders ample time to read and evaluate it. A Power Point presentation was developed that provided a detailed explanation of the risks and vulnerabilities the community faced.

The mitigation goals, objectives and actions were explained in detail as were the resources that would be used to help mitigate these hazards. In addition, the general public had an opportunity to ask questions and comment on the proposed plan and each of the annexes as they moved through the approval process for Tuolumne County and each of the participating jurisdictions. All comments were reviewed with the stakeholder group and incorporated into the plan as appropriate.

C. Jurisdiction Specific Planning and Approval Process

The district manager for Lake Don Pedro CSD participated in the Hazard Mitigation Planning Group. He reviewed the findings with special attention being paid to the issues of wildland fire and extreme weather preparedness. The district manager's input was incorporated into both draft and final documents, and reviewed by District staff. A staff report was prepared and made available to the general public for comment and was eventually forwarded to the Lake Don Pedro CSD Board of Directors. A public meeting was held within the jurisdiction; input was received from the general public and incorporated into the final approved agency specific plan.

Adoption by the District demonstrates the jurisdiction's commitment to fulfilling the hazard mitigation goals and actions outlined in the plan. Adoption legitimizes the plan and authorizes the District to execute its responsibilities.



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

III. RISK ASSESSMENT

A. DMA 2000 Requirements

DMA Requirement §201.6(c)(2)(i):	The risk assessment shall include a description of the type of all natural hazards that can affect the jurisdiction.
DMA Requirement §201.6(c)(2)(i):	The risk assessment shall include a description of the location and extent of all natural hazards that can affect the jurisdiction. The plan shall include information on previous occurrences of hazard events and on the probability of future hazard events.
DMA Requirement §201.6(c)(2)(iii):	For multi-jurisdictional plans, the risk assessment must assess each jurisdiction’s risks where they vary from the risks facing the entire planning area.

B. Jurisdiction Specific Risks

While a detailed hazard description and analysis can be found in the individual hazard profiles found in Volume 1 of this plan, as outlined below the District is susceptible to the following hazards.

Jurisdiction	Earthquake	Wildfire	Extreme Weather	Flood	Volcano	Haz Mat	Sinkholes
Lake Don Pedro CSD	✓	✓	✓	✓	✓	✓	✓

Hazard Specifics: The Lake Don Pedro Community Services District has several unique risks which are listed below:

- The majority of the LDPCSD water system is made up of miles of inflexible asbestos cement (AC) pipe, which is subject to damage and failure from an earthquake, sinkholes and similar ground shifting. AC water main ruptures can drain the treated water supply from system tanks in minutes, and cause washout damage to roads and properties.
- The functionality of the LDPCSD water system and its 460 fire hydrants relies on a continuous source of electrical power. The District tanks only fill when pumps have power to operate, and to fill some tanks, the water is pumped up three times by means of electric powered booster pumps. The LDPCSD treatment plant and booster pump locations are very susceptible to damage from wildfire, and power outages result in the inability to fill water tanks to keep hydrants charged.
- Extended drought causes the Lake McClure water surface elevation to fluctuate widely, regularly dropping below the District’s submersible pumps. The District emergency pumping system is not capable to operate for extended periods and has deteriorated to the point of being



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

decommissioned in 2016 after three years of continuous operation. Lake McClure surface water is not available in the area of the emergency pumps below elevation 560 feet ASL; at which point groundwater is the only water supply available. District groundwater supply is not adequate to meet summer water demand, even with 50% mandatory water use restrictions.

C. Jurisdiction Specific Hazard Event History

While a detailed hazard history can be found in the individual hazard profiles found in Volume 1 of this plan, the following events are specific to the District or have occurred in close proximity:

Earthquake History

Historically, earthquake activity in Tuolumne County is significantly below the California state average. In fact, it has one of the lowest earthquake risks in the State. As outlined below, a total of 5 historical earthquake events with recorded magnitudes of 3.5 or greater occurred in or near (50 Miles) Tuolumne County this past century.

Date	Description	Distance from Sonora	Impacts
March 26, 1872	7.6 – 8.0 Magnitude	Epicenter Unknown	Unknown
June 25, 1933	6.1 Magnitude	49.6 Miles	Unknown
June 10, 1965	3.5 Magnitude	42.6 Miles	None
August 10, 1975	4.0 Magnitude	44.3 Miles	None
August 9, 1983	4.0 Magnitude	40.8 Miles	None

Extreme Weather History

Date	Description	Impacts
1989 - 1992	Severe localized drought	Near loss of surface water supply
2012 - 2016	Severe drought	Loss of surface water supply due to regulatory restrictions



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

Flood History

DATE	EVENT DETAILS
Winter of 1887	The earliest record rainfall amount found in The Union Democrat indicates that 67 inches of rain fell. No damages were noted.
December of 1964	The County Board of Supervisors declares a state of emergency based on localized flooding within the County.
Winter of 1969	A series of cold storms dropped 8 inches of snow on the City of Sonora, elevation 1800 feet. The snow stayed on the ground for a full week as a cold front moved in behind the last storm. The County came to a standstill as the limited numbers of snow plows were unable to keep the roads open. Flooding was reported as snow melted.
February of 1986	Early season storms completely saturated the soils. A fast moving rain storm in February caused Sonora Creek to overbank flooding the Mother Lode Fairgrounds.
March of 1995	The Governor of California request federal assistance after the County Board of Supervisors declares a state of emergency based on localized flooding within the County.
April of 2006	On April 11 the Board of Supervisors passed an Emergency Resolution proclaiming the existence of a local emergency due to a series of winter storms that had “caused conditions of extreme peril to the safety of persons and property because of localized flooding in the County of Tuolumne”. In Sonora proper, Sonora High was flooded as Sonora Creek overbanked.
March 2011	With the season rainfall accumulations of nearly 60 inches, a late season storm, accompanied by extremely high winds, caused nearly \$750,000 in damages across the county. Damages to the flume systems, roadways, electrical distribution system and tree damage to numerous residences resulted in a request for a Federal Disaster Declaration.

Local Lake Don Pedro Community Drought History

Date	EVENT DETAILS
1989 - 1992	Precipitation was far below normal in the region during the winters of 1989, 1990, 1991 and 1992, causing the Lake McClure water level to drop 120 feet below LDPCSD pumps. Emergency floating pumps were launched and operated in 1991 and 1992 to provide community water supply
2013 - 2016	Beginning in the winter of 2012/13, precipitation was far below normal causing Lake McClure water level to drop 130 feet below LDPCSD pumps, resulting in the launch of the emergency floating pumps in October 2013. By January 2015, predictions placed the lake water level below the emergency pumps within 60 days. On January 1, 2016, the state prohibited further pumping from Lake McClure creating a surface water outage and reliance on minimal local groundwater



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

Volcanic History

There is no history of volcanic activity in recorded history. The proximity to volcanic active areas does present a remote threat of ash fall and the associated respiratory illnesses.

Hazardous Materials

While there is not a significant history of hazardous material spills or releases in the immediate area the location of Highway 49 parallel to and above the Merced River canyon as it enters Lake McClure make the threat of hazardous materials spills in Lake McClure near the LDPCSD water intake a distinct possibility.

Sinkholes

There is a poorly documented history of small sinkholes and subsidence as a result of mining activity and the occurrence below ground of carbonated rock formations. There are no recorded events of significance.

Wildfire

In 2017, two wildfires occurred within the District boundaries causing minor localized structure damage, but threatening the entire community. Water supply from the LDPCSD system was used to assist in controlling these fires quickly. In addition, major wildfires occurred in 2017 adjacent to the District boundaries (Detweiler Fire), causing major losses of structures, power outages, and threatening the water supply and pumping facilities of the District.

Date	Description	Impacts
August, 1987	Stanislaus Complex	6 major fires burn 145,950 acres, 28 structures, and 1 life was lost.
September, 2004	Tuolumne Fire	750 acres burned and 1 firefighter fatality.
August 2013	Rim Fire	257,314 acres burned 112 Structures destroyed
October 2017	Detwiler Fire	81,826 acres burned 63 residences, 67 minor structures and 1 commercial structure destroyed

D. Jurisdiction Specific Hazard Ranking

Given the past history, the current conditions, and the overall life and property threat to the Lake Don Pedro Community Services District the Planning Committee has deemed the probability and severity of each hazard as follows:



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

Lake Don Pedro CSD	Wildfire	Earthquake	Extreme Weather	Flood	Volcano	Haz Mat	Sinkholes
Probability	H	L	H	M	L	M	L
Severity	H	H	H	M	L	L	L

L = Low, M= Medium, H = High

III. VULNERABILITY ASSESSMENT

A. Overview

The vulnerability assessment is a summary of the hazard’s impact to the District’s vulnerable structures. District assets and development trends will be identified and assessed with respect to the developed hazard profiles to ascertain the potential amount of damage that could ensue from each identified hazard. This section will include: 1) A description of the critical buildings and infrastructure within the study areas including future building and land use decisions. 2) A general description of the extent of each hazard’s impacts to these vulnerable structures, 3) An estimate of the potential dollar losses to vulnerable structures.

B. DMA 2000 Requirements

DMA Requirement §201.6(c)(2)(ii):

The risk assessment shall include a description of the jurisdiction’s vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description shall include an overall summary of each hazard and its impact on the community.

DMA Requirement §201.6(c)(2)(ii)(A):

The plan should describe vulnerability in terms of the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard areas.

DMA Requirement §201.6(c)(2)(ii)(B):

[The plan should describe vulnerability in terms of an] estimate of the potential dollar losses to vulnerable structures identified in paragraph (c)(2)(i)(A) of this section and a description of the methodology used to prepare the estimate .

DMA Requirement §201.6(c)(2)(ii)(C):

[The plan should describe vulnerability in terms of] providing a general description of land uses and development trends within the community so that mitigation options can be considered in future land decisions.

DMA Requirement §201.6(c)(2)(iii):

For multi-jurisdictional plans, the risk assessment must assess each jurisdiction’s risks where they vary from the risks facing the entire planning area.



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

C. Critical Facilities and Infrastructure

Critical facilities and infrastructure are those systems within each community whose incapacity or destruction would have a debilitating effect on the community's ability to recover subsequent to a major disaster. The following critical facility and infrastructure are categorized as follows:

1. **Emergency Services** for the health and welfare of the whole population (e.g., hospitals, police, fire stations, emergency operations centers, evacuation shelters, schools).
2. **Lifeline Utility Systems** such as potable water, wastewater, oil, natural gas, electric power and communications systems.
3. **Transportation Systems** including railways, highways, waterways, airways and city streets to enable effective movement of services, goods and people.
4. **High Potential Loss Facilities** such as power plants, dams and levees.

Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan



D. Jurisdictional Assets at Risk to Applicable Hazards

Critical Facilities and Infrastructure	Address	Building Value	Wildfire	Flood	Earthquake	Landslides/Sinkholes	Volcano	Extreme Weather	Hazardous Materials
Water Treatment Plant	9751 Merced Falls Rd., La Grange 9329	\$12,000,000.	✓					✓	✓
Water Tanks (7 locations)	Throughout LDPCSD	\$7,000,000.	✓		✓	✓		✓	
Lake McClure Pumping Station	Barrett Cove Road, Barrett Cove Marina, Lake McClure	\$5,000,000	✓	✓		✓		✓	
Booster Pump Stations (6 locations)	Throughout LDPCSD	\$1,500,000	✓					✓	
Water Distribution System including 480 Fire Hydrants	Throughout LDPCSD	\$15,000,000.	✓		✓	✓		✓	

E. Methodology Used

To determine the number of critical structures and infrastructure at risk, a combination of field surveys, aerial photos, GIS maps, and Google Earth software were used. The methodology used in preparing the Vulnerability Estimate consisted of determining the value of critical buildings and facilities from insurance property schedules. Critical infrastructure values were established by using actual replacement costs which were determined by recent comparable replacement projects.

F. Loss Estimations

Dollar losses to buildings and infrastructure vary depending upon the natural hazard occurring and the severity of the hazard. In general, earthquakes can extensively damage a wide area therefore critical structure and infrastructure losses should be estimated at a 100% value. Destruction from flooding takes place in specific areas and the damage is historically less severe than that of an earthquake. Thus, the estimated loss as a result of flooding should be calculated at the 50% level. Damage resulting from wildfires should be calculated at 25% of structural value for those structures located within 300 feet of the wildfire areas. Extreme weather could impact any portion of the jurisdiction. Historical data indicates that these events are extremely localized and a 10% loss should be anticipated.



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

G. Development Trend Analysis

While the population of Tuolumne County is not expected to grow significantly in the next five years, there are Land Use policies and elements within the County General Plan to help assure orderly development when it does occur.

In addition, the Local Agency Formation Commission (LAFCO) of Tuolumne County is tasked with the mission to provide an orderly pattern of growth that reconciles the varied needs of the County. One of the fundamental principles of LAFCO is to ensure the establishment of an appropriate and logical municipal government structure for the distribution of efficient and appropriate public services. LAFCO Land Use Objectives include:

- The discouragement of urban sprawl
- Preservation of the physical and economic integrity of agricultural lands
- Preservation of open space within urban development patterns
- Orderly formation and development of agencies by shaping local agency boundaries
- The minimization of agencies providing services to a given area
- Utilization of Spheres of Influence to guide future development of agency boundaries

IV. CAPABILITY ASSESSMENT

The following resources are available to the jurisdiction in order to mitigate the effects of the identified hazards:

A. Legal and Regulatory

Lake Don Pedro Community Services District (JSD) is a Special District formed pursuant to California Government Code 61000 et seq. The LDPCSD is governed by an elected 5 person Board of Directors. Legal services (District Counsel), financial audits and district engineering services are provided by independent consultants on an as required and needed basis as appointed by the Board of Directors.

B. Administrative and Technical

Lake Don Pedro Community Services District has well qualified staffing and organizational capability. Under the policy direction of the Board of Directors, the General Manager is responsible for the day to day management of the district finances, facilities, personnel and services. Under direction of the General Manager, an Office Manager is responsible for the district records, accounting functions and Board records.

Field staff, under the direction of the Water Operations Manager, consists of certified water treatment plant and water distribution system operators; certified by the State of California. The field staff is responsible for the day to day operation of the water treatment plant and operation/maintenance of the water distribution system of the District.

General engineering (District Engineer) is provided by an independent consultant on an as needed basis and under the direction of the General Manager. Other specialty consultants are hired on an as needed basis to perform independent auditing, long term planning and design for water system needs.



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

C. Financial

The District is funded by user fees for operations and maintenance. Capital improvements projects are funded by user fees, developer capacity/connection fees and grant/loans as available. Reserve funds are available for unanticipated operating expenses, but would be insufficient in a catastrophic event.

D. Physical Assets

The District has adequate manpower, contractors, equipment and resources to plan and implement the hazard mitigation projects identified, and to conduct major system repairs.

E. Political Will

The District’s Board of Directors recognizes the need for promoting, planning and implementing hazard mitigation strategies. The reduction in potential effects from a natural disaster will prove to be a tangible result of such planning. Efforts to secure funding for large-scale hazard mitigation projects are supported by the Board of Directors.

V. MITIGATION STRATEGY

A. DMA 2000 Requirements

DMA Requirement §201.6(c)(3)(i):	The hazard mitigation strategy shall include a description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.
DMA Requirement §201.6(c)(3)(ii):	The mitigation strategy shall include a section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure.

B. 2013 Mitigation Action Progress Report

2013 Jurisdiction Specific Mitigation Actions	Progress Made
Lake Don Pedro CSD was not include in the 2013 MJHMP.	



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

Other Mitigation Progress Accomplishments

As a result of the extended drought and dangerously low lake water level and community water supply, the LDPCSD received grant funding from four different sources beginning in January 2015 for the construction of groundwater wells to offset the impending loss of its Lake McClure water supply. By December 2015, three groundwater wells were completed at a cost of \$1.8 million and providing adequate water supply to meet the winter community water demand. On January 1, 2016 the State Water Resources Control Board mandated the discontinuance of surface water pumping from Lake McClure until the water surface elevation reached the 625 foot statutory minimum pool elevation, which occurred in March 2016. The emergency groundwater wells provided 100% of the community water supply needs for January and February 2016.

In August 2017, the District completed installation of a second booster pump at the Lake McClure pumping facility to provide redundant pumping capacity in low lake conditions caused by drought at a cost of approximately \$130,000. In addition, the emergency Lake McClure floating pump system which is operated during low lake levels caused by drought, was decommissioned due to structural failure and the design of a renovated floating pump system begun in November 2017. Completion of the renovated emergency floating pump system is expected to take 90 days following completion of design in January 2018. The estimated cost of emergency pump system renovation is approximately \$80,000.

The District has also been experiencing water distribution system leakage and losses totaling up to 30% of the total water pumped into the system. Grant funds and District reserves have been used to implement a Water Service Line Replacement Project which began under emergency conditions in 2015, and is planned for completion by September 2018, at a total cost of approximately \$1.5 million.



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

C. Goals, Objectives and Mitigation Actions 2018

Goal 1 **Promote understanding and support for hazard mitigation by key stakeholders and the public within Tuolumne County.**

Applies to: All jurisdictions

Objective 1 Educate key stakeholders and the public to increase awareness of hazards and opportunities for mitigating hazards.

Mitigation Action 1A: Through newsletters, advertisements, speaking engagements and other public contacts, educate the general public and key stakeholders on the issues, responsibilities, and current efforts and successes in the area of disaster preparedness as they impact each agency.

Mitigation Action 1B: Conduct periodic workshops and promotion of the Emergency Notification Systems available to the public to ensure familiarity of the public to warning applications.

Goal 2 **Ensure that future development is protected from natural disasters.**

Applies to: Tuolumne County, City of Sonora, Tuolumne Band of Me-Wuk Indians, and the Tuolumne Utilities District.

Objective 2 Limit new development in hazardous areas, and as permissible, build to standards that will prevent or reduce damage.

Mitigation Action 2A: Educate the County and City planning staffs, administrative staffs and elected officials on the importance of keeping current on trends and developments in disaster preparedness.

Mitigation Action 2B: Encourage planning staffs to attend seminars and lectures on naturally occurring hazards so that they may better assist the appropriate governing bodies as they process future developments.



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

Mitigation Action 2C: In order to better protect life and property, continue to develop a more accurate and comprehensive series of countywide GIS geology, fire, and flood maps and data sets.

Goal 3 **Build and support local capacity and commitment to minimize the jurisdictions within Tuolumne County’s vulnerability to potential hazards.**

Applies to: All jurisdictions

Objective 3.1 Improve existing capabilities to manage emergency situations.

Objective 3.2 Enhance the safety of residents, students and staff within the community and jurisdictions.

Objective 3.3: Enhance the communications between agencies to support emergency response

Mitigation Action 3.1A: In order to ensure that employees are available to assist during a major emergency, develop and adopt a Family Support Plan for all jurisdictions and County agencies.

Mitigation Action 3.1B: Review and when necessary, update the jurisdiction’s Emergency Operations Plans and supporting documents to ensure coordination with the County’s new Emergency Services’ Plan.

Mitigation Action 3.1C: Assist with Public Health Emergency Preparedness to plan and prepare for medical and healthcare impacts which would result from all hazards within the County

Mitigation Action 3.2A: Review the initial planning requirements and research the development of standard operating procedures which would minimize helicopter operations over Sonora Elementary School as they utilize the helistop at Sonora Regional Medical Center

Mitigation Action 3.2B: Support the efforts of the Tuolumne Utilities District to better protect public health by initiating a Watershed Sanitary Survey

Mitigation Action 3.2C: Assist the County in identifying opportunities for additional evacuation routes within single-access areas



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

Mitigation Action 3.2D: TUD will study and seek funding to increase the raw water storage or establish a secure conveyance from Lyons Reservoir to ensure service for both domestic consumption and urban fire protection

Mitigation Action 3.2E: Make improvements to wastewater systems by replacing or relining collection pipes so as to reduce sewer overflows and limit inflow and infiltration subsequently reducing the public health threat.

Mitigation Action 3.2F: Develop a program that would, in emergency situations, enable water districts and water companies to share water resources through interconnections

Mitigation Action 3.2G: Develop a program to secure water rights for Tuolumne County

Mitigation Action 3.2 H: Promote a county-wide sewer connection to reduce septic failure impacts and improve water quality.

Mitigation Action 3.2I: Promote land use recommendations that new developments occur adjacent to public water and wastewater facilities.

Mitigation Action 3.3: Build and maintain communications between County agencies, Special Districts, and the Tuolumne Band of Me-Wuk Indians to assist in the response to emergencies

Goal 4 **Minimize the level of damage and losses to people, existing and future critical facilities and infrastructure due to flooding.**

Applies to: Tuolumne County, City of Sonora, Curtis Creek School District, Belleview School District

Objective 4 Enhance the ability of community assets, particularly critical facilities, located in the 100-year floodplain to handle existing and projected flood levels

Mitigation Action 4A Work to improve localized flood prone areas through a combination of vegetation management and storm drain improvements. (i.e. Sonora, Curtis, Sullivan, and Woods Creeks)



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

- Mitigation Action 4B: Maintain compliance with the National Flood Insurance Program (NFIP) requirements.
- Mitigation Action 4C: Through the Development Process Review Team, restrict construction of essential service facilities in the 100-year flood plain.
- Mitigation Action 4D: In order to better protect life and property, record a notice on properties located in flood zones utilizing FIRM maps and notify property owners of said action.
- Mitigation Action 4E: Continue to work cooperatively with the state and federal flood related agencies for funding improvements through grant and agency programs.
- Mitigation Action 4F: Seek funding sources for and initiate watershed improvement projects for the County.
- Mitigation Action 4G: In cooperation with Jamestown Sanitary District, investigate planning and funding for relocation of the wastewater treatment facility away from Wood's Creek and its potential flooding capabilities.
- Mitigation Action 4H: Study ways to improve drainage to prevent erosion on the steep slopes of the Curtis Creek campus and seek funding sources for mitigation.
- Mitigation Action 4I: Study ways to improve drainage to prevent erosion on the steep slopes of the Belleview School campus and seek funding sources for mitigation.
- Mitigation Action 4J: Work with Belleview School to identify and evaluate opportunities to create additional evacuation routes within the single-access areas in the district.

Goal 5 **Minimize the level of damage and losses to people, existing and future critical facilities and infrastructure due to wildland fires.**

Applies to: All Jurisdictions



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

- Objective 5.1 Continue the comprehensive approach to reducing the level of damage and losses due to wildland fires through vegetation management, code enforcement, GIS mapping, and planning process.
- Objective 5.2 Enhance collaboration amongst all fire agencies and stakeholders.
- Mitigation Action 5.1A: In order to assist fire prevention efforts and to better manage large fires when they occur, continue to improve GIS mapping and tracking efforts by gathering and maintaining relevant GIS data layers and imagery and utilizing the best available mapping applications and software.
- Mitigation Action 5.1B: Continue to work with the Hwy 108 Fire Safe Council, Yosemite Foothills FireSafe Council, and SWIFT to initiate fuel thinning and chipping projects in high priority areas. Collaborate with property owners and regulatory agencies in order to utilize prescribed fire on private and state owned lands in the county.
- Mitigation Action 5.1C: Work with the Hwy 108 Fire Safe Council, Yosemite Foothills Fire Safe Council, and SWIFT to update as needed the Community Wildfire Protection Plans for the County so that they will continue to:
- Assess the fire hazard in the County
 - Prioritize treatment areas
 - Enhance collaboration amongst all fire agencies and stakeholders
 - Streamline environmental review processes
- Mitigation Action 5.1D: Develop a wildfire evacuation plan which includes sheltering in place at Curtis Creek School.
- Mitigation Action 5.1E: Work with the Tuolumne Utilities District to improve fire flow, system reliability and redundancy, and increased water supply in their responsibility areas.
- Mitigation Action 5.1F: Protect water conveyance system by reducing fuels adjacent to wooden flumes.
- Mitigation Action 5.1G: Develop a County Fire Agency GIS layer showing fire water draft locations.
- Mitigation Action 5.1H: Work with the Lake Don Pedro Community Services District to improve system reliability and redundancy, and increased water supply in their responsibility areas.



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

- Mitigation Action 5.1I: Work with the Lake Don Pedro Community Services District and PG&E to improve the reliability of the electrical grid in Don Pedro and provide for emergency backup power supply to be used during power outages at critical water system facilities.
- Mitigation Action 5.2A: Encourage participation of all Fire Agencies in the monthly Fire Chief Association meetings and support, when possible, efforts by the Association to improve fire protection and preventions efforts in the County.
- Mitigation Action 5.2B: Encourage participation in cooperative automatic and mutual aid agreements between Districts, the County and the City of Sonora.

Goal 6 **Minimize the level of damage and losses to people, existing and future critical facilities and infrastructure due to geological events (earthquakes, volcanoes, landslides, and sinkholes).**

Applies to: All jurisdictions

Objective 6 Continue public education efforts so as to better prepare the citizens of Tuolumne County from the effects of a significant geological event

Mitigation Action 6A: Working with Cal OES, increase participation in earthquake preparedness activities such as the annual Great California Shake-Out drill

Mitigation Action 6B: Continue to support the work of utility districts in replacing sewer and water lines and portions of the flume that are the most vulnerable to an earthquake or landslide

Goal 7 **Limit risk to, and impacts from hazardous materials spills, intentional discharges, illegal disposals, transportation accidents, or system failures**

Applies to: All Jurisdictions



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

- Objective 7.1 Continue efforts to manage the use, sale, distribution and disposal of hazardous materials in Tuolumne County
- Objective 7.2 Improve emergency response efforts in the control and clean-up of accidental spills and releases
- Mitigation Action 7.1A: Educate community members on the dangers associated with household hazardous materials including proper storage techniques
- Mitigation Action 7.1B: Continue efforts to educate applicable employees on the handling, use, storage and disposal of hazardous materials utilized in the workplace
- Mitigation Action 7.2A: In coordination with the Environmental Health Director, develop procedures to enhance the response to Hazardous Material Incidents

Goal 8 **Minimize the level of damage and losses to people, existing and future infrastructure, and critical facilities due to extreme weather**

- Applies to: All Jurisdictions
- Objective 8.1 Continue the comprehensive approach to reducing the level of damage and losses due to extreme weather and drought through GIS mapping, planning process, and the removal of dead and dying trees.
- Mitigation Action 8.1A : Analyze and remove hazards that threaten public safety due to the cascading effects of drought such as dry wells and tree mortality
- Mitigation Action 8.1B: Encourage water agencies to conduct water supply evaluations for each public water system to determine the effect of drought on community water supply
- Mitigation Action 8.1C: Work with the Lake Don Pedro Community Services District to improve the availability and reliability of Lake McClure pumping capacities at lower water surface elevations



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

Mitigation Action 8.1D: Work with the Lake Don Pedro Community Services District to increase groundwater supply and/or identify other alternate water sources to be used when drought and related reservoir operational requirements diminish the water supply available from Lake McClure



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

D. How Mitigation Goals Address Existing and New Buildings and Infrastructure

The following tables demonstrate how the proposed mitigation goals take into account both existing and new buildings and infrastructure.

MITIGATION GOALS	EXISTING BUILDINGS AND INFRASTRUCTURE						
	Electrical and Power Infrastructure	Dams and Water Management	Communication Facilities	Critical Roads & Bridges	Essential Service Facilities (Fire, Law, Hospitals)	Agricultural Infrastructure	Public Structures
Goal 1-General Mitigation: Promote understanding and support for hazard mitigation by key stakeholders and the public within the County of Tuolumne.	X	X	X	X	X	X	X
Goal 2-General Mitigation: Ensure that future development is protected from natural disasters.	X	X	X	X	X	X	X
Goal 3-General Mitigation: Build and support local capacity and commitment to minimize the County of Tuolumne's vulnerability to potential hazards.		X		X	X	X	X
Goal 4-Flood: Minimize the level of damage and losses to people, existing and future critical facilities and infrastructure due to flooding.	X	X	X	X	X	X	X



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

<p>Goal 5-Wildfire: Minimize the level of damage and losses to people, existing and future critical facilities and infrastructure due to wildfire.</p>	X	X	X	X	X	X	X
<p>Goal 6-Earthquake: Minimize the level of damage and losses to people, existing and future critical facilities and infrastructure due to earthquake, landslide and sinkholes.</p>	X	X	X	X	X	X	X
<p>Goal 7-Hazardous Materials: Limit risk to, and impacts from hazardous materials spills, intentional discharges, illegal disposals, transportation accidents, or system failures</p>		X			X	X	X
<p>Goal 8- Extreme Weather: Minimize the level of damage and losses to people, existing and future critical facilities, and infrastructure due to extreme weather.</p>	X	X		X	X		X



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

MITIGATION GOALS	NEW PROJECTS/BUILDINGS AND INFRASTRUCTURE					
	Residential Subdivisions	Various mixed use projects (residential	Ag Clusters (residential, open space, and Ag uses)	Commercial and Industrial Projects	Essential Service Facilities	Public Structures
Goal 1-General Mitigation: Promote understanding and support for hazard mitigation by key stakeholders and the public within the County of Tuolumne.	X	X	X	X	X	X
Goal 2-General Mitigation: Ensure that future development is protected from natural disasters.	X	X	X	X	X	X
Goal 3-General Mitigation: Build and support local capacity and commitment to minimize the County of Tuolumne's vulnerability to potential hazards.	X	X	X	X	X	X
Goal 4-Flood: Minimize the level of damage and losses to people, existing and future critical facilities and infrastructure due to flooding.	X	X	X	X	X	X



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

<p>Goal 5-Wildfire: Minimize the level of damage and losses to people, existing and future critical facilities and infrastructure due to wildfire.</p>	X	X	X	X	X	X
<p>Goal 6-Earthquake: Minimize the level of damage and losses to people, existing and future critical facilities and infrastructure due to earthquake, landslide and sinkholes.</p>	X	X	X	X	X	X
<p>Goal 7-Hazardous Materials: Limit risk to, and impacts from hazardous materials spills, intentional discharges, illegal disposals, transportation accidents, or system failures</p>	X	X	X	X	X	X
<p>Goal 8- Extreme Weather: Minimize the level of damage and losses to people, existing and future critical facilities, and infrastructure due to extreme weather.</p>	X	X			X	X



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

VI. MITIGATION ACTION IMPLEMENTATION

A. DMA 2000 Requirements:

DMA Requirement §201.6(c)(4)(i):	The plan maintenance process shall include a section describing the method and schedule of monitoring, evaluating, and updating the mitigation plan within a five-year cycle.
DMA Requirement §201.6(c)(4)(ii):	The plan shall include a process by which local governments incorporate the requirements of the mitigation plan into other planning mechanisms such as comprehensive or capital improvement plans, when appropriate.
DMA Requirement §201.6(c)(3)(iii):	The mitigation strategy section shall include an action plan describing how the actions identified in section (c)(3)(ii) will be prioritized, implemented, and administered by the local jurisdiction. Prioritization shall include a special emphasis on the extent to which benefits are maximized according to a cost benefit review of the proposed projects and their associated costs.
DMA Requirement §201.6(c)(3)(iv):	For multi-jurisdictional plans, there must be identifiable action items specific to the jurisdiction requesting FEMA approval or credit of the plan.

B. Prioritization of Mitigation Actions

The Mitigation actions were prioritized using a system which is outlined below. This system factored in the following components: 1) Probability of Occurrence 2) Effectiveness of Mitigation Actions, 3) Practicality of mitigation action for the jurisdiction based on the STAPLE+E criteria of Social, Technical, Administrative, Political, Legal, Economic and Environmental components. This gave rise to the development of an overall relative risk value that resulted in ratings of HIGH, MEDIUM and LOW for each of the mitigation actions. The resultant prioritization was presented to criteria key stakeholders and lengthy discussions were held to ensure that the results were indeed applicable to the priorities and capabilities of the jurisdictions served.



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

Sample Mitigation Action Prioritization Worksheet

Mitigation Action	Probability of Associated Threat Occurrence Low=1 Med.=2 High=3	Effectiveness of Mitigation Action Minimal=1 Moderate=2 High=3	Practicality (based on STAPLE+E criteria) Low=1 Medium=2 High=3	Relative Risk (Product of Risk Components)
1.A	3	2	3	18

In assessing and evaluating each strategy, the following factors were considered:

- The benefit justified the cost
- The availability of financial resources
- The availability of staff resources
- Impact on County department functions
- Strategies reflect the goals and objectives

C. Action Plan

Once the MJHMP has received formal adoption by the Board of Supervisors and the various governing bodies the following action plan, agreed upon by Hazard Mitigation Planning Group, will be used to ensure the Plan is implemented and remains an active and relevant document. Actual implementation may be dependent upon funding availability.

Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan



ACTION PLAN FOR TUOLUMNE COUNTY MULTI-JURISDICTIONAL PLAN

MITIGATION ACTION		IMPLEMENTATION STRATEGY			
ID	DESCRIPTION	RESPONSIBLE DEPARTMENT	FUNDING SOURCES	COMPLETION DATE	PRIORITY
1.A	Educate Public and Stakeholders	OES - lead All support	General Funds	Ongoing	Medium
1.B	Promote Everbridge	OES- lead All Support	None Required	Ongoing	Low
2.A	Educate Staff	OES – lead All support	None Required	Ongoing	Medium
2.B	Continuing Education	OES –lead All support	General Funds	Ongoing	Medium
2.C	Improve GIS Capabilities	County CRA, City of Sonora & CAL Fire	General Funds	Ongoing	Medium
3.1A	Develop/ Adopt Family Support Plan	All agencies OES support	General Funds	12/01/18	Medium
3.1B	Emergency Operations Plans	All agencies OES support	None Required	06/30/18	Medium
3.1C	Medical Preparedness	Public Health-Lead All Support	None Required	Ongoing	Medium
3.2A	Helicopter Operations	OES	None Required	07/01/18	Low
3.2B	Watershed Survey	TUD	Grant	Ongoing	Medium
3.2C	Single Access Routes	Fire Safe Council and Community Resources Agency	Grant and General Fund	Ongoing	Medium
3.2D	Raw Water Storage	TUD	Grant	Ongoing	Medium



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

3.2E	Wastewater System Improvements	TUD	General Fund & Grants	Ongoing	High
3.2F	Water Interconnections	All water agencies	None Required	Ongoing	Medium
3.2G	Water Rights	All water agencies	Grants & General Funds	Ongoing	Medium
3.2H	Promote Sewer Connection	Water Agencies with support of all agencies	None Required	Ongoing	Low
3.2I	Promote Development adjacent water facilities	Water Agencies with support of all agencies	None Required	Ongoing	Low
3.3	Maintain Communications	All agencies	None Required	Ongoing	Medium
4.A	Creek/Storm Drain Management	County CRA and City of Sonora	General Fund	Fall of each year	Low
4.B	NFIP Requirements	County CRA and City of Sonora	General Fund	Ongoing	Medium
4.C	Development Review	County CRA and City of Sonora	General Fund	Ongoing	Medium
4.D	Notice Property Owners	County CRA and City of Sonora	General Fund	09/01/19	Medium
4.E	Storm Drain Improvements	County CRA and City of Sonora	Grants	Ongoing	Medium
4.F	County Watershed Projects	County CRA	Grants	Ongoing	Medium
4.G	Jamestown Water Treatment Plant Relocation	Jamestown Sanitary District with County OES & CRA support	Grants	Ongoing	Medium
4.H	Drainage	Curtis Creek School District	Grants	Ongoing	Medium
4.I	Drainage	Bellevue School District	Grants	Ongoing	Medium



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

5.1A	Improve GIS Mapping and Tracking	CAL Fire-County Fire	General Fund	Ongoing	Medium
5.1B	Fuel Thinning and Chipping Projects	All fire agencies	Grants	Ongoing	High
5.1C	Community Wildfire Protection Plan Update	CAL Fire-County Fire	General Fund	08/01/14	Medium
5.1D	Improve Water Supply/ Storage at Curtis Creek School	Curtis Creek School District	Grants	11/01/18	High
5.1E	Evacuation Plans for Curtis Creek	District Superintendent with fire agencies supporting	None Required	09/01/19	High
5.1F	Water Supply/Fire Flow	TUD, with fire agencies supporting	General Funds and Grants	Ongoing	High
5.1G	Protect Flumes	TUD, with fire agencies supporting	General Funds and Grants	Ongoing	Medium
5.1H	County Fire GIS Layer	County GIS- Lead OES- Support	General Funds	Ongoing	Low
5.1I	Increase Water Supply for Lake Don Pedro CSD	Lake Don Pedro CSD- Lead OES-Support	General Funds and Grants	Ongoing	Medium
5.1J	Increase Alternate Power Source for Lake Don Pedro	Lake Don Pedro CSD- Lead OES-Support	General Funds and Grants	Ongoing	Medium
5.2A	Fire Chiefs Association	All fire agencies	None Required	Ongoing	Medium



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

5.2B	Mutual/Auto Aid	All fire agencies	None Required	Ongoing	Medium
6.A	Earthquake Preparedness Exercises	OES – lead All support	None Required	Fall of Each Year	Medium
6.B	Replace Vulnerable Water/Sewer Lines	TUD	General Fund	Ongoing	Medium
7.1A	Educate Community on Hazardous Materials	OES – lead All support	None Required	Ongoing	Medium
7.1B	Educate Staff on Hazardous Materials	OES – lead All support	None Required	Ongoing	Medium
7.2A	Improve Response Capabilities	Environmental Health– lead fire agencies support	None Required	Ongoing	Medium
8.1A	Removal of safety hazards caused by dry wells and Tree Mortality	All Agencies	Grant	Ongoing	High
8.1B	Water Supply Evaluation at Lake McClure	Lake Don Pedro CSD- Lead OES Support	Grant and General Fund	Ongoing	Medium
8.1C	Improve Pumping Capacity at Lake McClure	Lake Don Pedro CSD- Lead OES Support	Grant and General Fund	Ongoing	High
8.1D	Alternate Water Sources to Lake McClure	Lake Don Pedro CSD- Lead OES Support	Grant and General Fund	Ongoing	Medium



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

D. Implementation Through Existing Plans and Programs

Tuolumne County currently uses comprehensive land use planning, capital improvements planning, and building codes to guide and control development within the County. This MJHMP will be provided to those responsible for the County's General Plan development mechanisms to ensure that consistency is maintained. The same holds true whenever substantive changes are made.

Mitigation Actions have been assigned to specific jurisdictions. These individual actions will fall under the general administrative oversight of the local governing body. Should technical expertise not be available in these agencies, the County Office of Emergency Services is committed to, when possible, coordinating the resources of the County to assist with implementation of the mitigation actions.

The general administrative oversight of this MJHMP rests with the Tuolumne County Office of Emergency Services.

E. Continued Public Involvement

Tuolumne County and the District understand the importance of involving the public in the ongoing Hazard Mitigation Plan review and updating process. Resultantly, the following actions will be taken:

- A copy of the MJHMP will be posted on the County and LDPCSD websites
- Hard copies of the Plan will be available at the County Office of Emergency Services, LDPCSD office and the County Library

F. Plan Monitoring, Evaluating and Updating

DMA Requirement §201.6(d)(3): A local jurisdiction must review and revise its plan to reflect changes in development, progress in local mitigation efforts, and changes in priorities, and resubmit if for approval within 5 years in order to continue to be eligible for mitigation project grant funding.

In order to continue to be an effective representation of each jurisdiction's overall strategy for reducing its risks from natural hazards, the mitigation plan must reflect current conditions. Monitoring and evaluating the plan will occur annually to make certain that the goals and objectives for the County and participating jurisdictions are current and mitigation activities are being carried out.

To ensure that regular review and update of this Multi-Jurisdictional Hazard Mitigation Plan takes place, the County Office of Emergency Services will communicate with the MJHMP Planning Group members annually to see if their plan components are up-to-date and meet current realities.



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

The MJHMP Planning Group will review each goal and objective to evaluate its:

- Relevance to current and evolving situations in Tuolumne County
- Consistency with changes in local, state and federal policy

The planning group will review the risk assessment component of the plan to ascertain if the information needs to be updated or modified. Each jurisdiction will report on:

- Current status of their mitigation actions
- How coordination efforts are proceeding
- Implementation processes that worked well
- Any difficulties encountered
- Any strategies in need of revision

If the plan review leads the Hazard Mitigation Planning Group to determine that modifications are necessary, then the County or the applicable jurisdiction can initiate a plan amendment.



Acronyms

Acronym	Definition
CGS	California Geological Survey
Cal EPA	California Environmental Protection Agency
Caltrans	California Department of Transportation
CAL Fire	California Department of Forestry and Fire Protection
CDF	California Department of Forestry and Fire Protection
CDHS	California Department of Health Services
CFR	Code of Federal Regulations
CGS	California Geological Survey
CISN	California Integrated Seismic Network
CSSC	California Seismic Safety Commission
DFG	State Department of Fish and Game
DHS	Department of Homeland Security
DWR	Department of Water Resources
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
FMA	Flood Mitigation Assistance
FMP	Floodplain Management Plan
FRAP	Fire and Resource Assessment Program
GIS	Geographic Information System
HMGP	Hazard Mitigation Grant Program
LHMP	Local Hazard Mitigation Plan
NFIP	National Flood Insurance Program
NOAA	National Oceanic and Atmospheric Administration
NPS	National Park Services
OES	Governor's Office of Emergency Services
SEMS	Standardized Emergency Management System
SFHA	Special Flood Hazard Area
USDA	U.S. Department of Agriculture
USGS	U.S. Geological Survey



LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
RESOLUTION NO. 2017-19

ADOPTION OF AN UPDATED MULTI-JURISDICTION LOCAL HAZARD
MITIGATION PLAN

WHEREAS, the Lake Don Pedro Community Services District's (District) recognizes that natural hazards threaten the well-being of people and property within the Lake Don Pedro community and that the risk of such threats can be reduced by undertaking hazard mitigation planning and pre-disaster mitigation projects; and

WHEREAS, the Disaster Mitigation Act of 2000 (Disaster Act) was put in place to reduce the risks of natural hazards and the costs of post-disaster assistance by establishing a national program for pre-disaster mitigation, including a Hazard Mitigation Grant Program (HGMP) that helps fund pre-disaster mitigation projects; and

WHEREAS, the Disaster Act requires local governments to develop and submit local mitigation plans in order to qualify for the HGMP funds; and

WHEREAS, the other Districts in Tuolumne County participated in hazard mitigation planning and adopted local Hazard Mitigation Plans in 2012, which were included as attachments to the 2013 Tuolumne County (County) Multi-Jurisdiction Hazard Mitigation Plan (2013 Plan); and

WHEREAS, the District, in conjunction with County and other local agencies, have participated in a mitigation planning process to update the 2013 Plan; and

WHEREAS, the attached District Hazard Mitigation Plan includes the results from said process that will be incorporated as an annex to the updated County Multi-Jurisdiction Hazard Mitigation Plan upon adoption by the District Board.

NOW, THEREFORE, BE IT RESOLVED, by the District Board of Directors that:

1. The District accepts the updated Tuolumne County Multi-Jurisdiction Hazard Mitigation Plan as an official plan and adopts the attached District Hazard Mitigation Plan to be attached as an annex to said County Plan.
2. The District shall forward this Resolution and District Hazard Mitigation Plan to the Governor's Office of Emergency Services and the Federal Emergency Management Agency to enable final approval of the Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan.

PASSED AND ADOPTED, by the Board of Directors of Lake Don Pedro Community Services District on December 14, 2017 by the following vote:

AYES:
NOES:
ABSENT:
ABSTAIN:

ATTEST:

Danny Johnson, Board President

Syndie Marchesiello, Board Secretary

Appendix G

Schedule of Rates and Charges

SCHEDULE OF WATER RATES AND CHARGES

	Current Rates	Water Rates Effective					Proposed Maximum Rates*
		Jan-1 2011	Jul-1 2011	Jul-1 2012	Jul-1 2013	Jul-1 2014	
FIXED MONTHLY SERVICE CHARGE							
<u>Meter Size</u>							
5/8-inch	\$ 27.00	\$ 47.00	\$ 47.00	\$ 49.00	\$ 51.00	\$ 53.00	\$ 53.00
3/4-inch	\$ 40.50	\$ 71.00	\$ 71.00	\$ 74.00	\$ 77.00	\$ 80.00	\$ 80.00
1-inch	\$ 54.00	\$ 94.00	\$ 94.00	\$ 98.00	\$ 102.00	\$ 106.00	\$ 106.00
1&1/2-inch	\$ 81.00	\$ 141.00	\$ 141.00	\$ 147.00	\$ 153.00	\$ 159.00	\$ 159.00
2-inch	\$ 135.00	\$ 235.00	\$ 235.00	\$ 245.00	\$ 255.00	\$ 265.00	\$ 265.00
3-inch	\$ 270.00	\$ 470.00	\$ 470.00	\$ 490.00	\$ 510.00	\$ 530.00	\$ 530.00
4-inch	\$ 540.00	\$ 940.00	\$ 940.00	\$ 980.00	\$1,020.00	\$1,060.00	\$1,060.00
WATER USAGE RATE (Residential & Hydrant Consumption)							
Rate per hcf**	\$ 2.00	\$ 2.00	\$ 2.00	\$ 2.00	\$ 2.00	\$ 2.00	\$ 2.00
WATER AVAILABILITY							
	\$60-180	\$60-180	\$60-180	\$60-180	\$60-180	\$60-180	\$60-180
* Maximum water rates proposed to be adopted.							
** 1 hcf = 100 cubic feet, or about 750 gallons of water.							

Appendix H

2019-20 Annual Budget

		2018-2019 Approved Budget	2018-2019 YTD Totals Thru 04/30/19	2018-2019 Projected Amounts	2019-2020 Proposed Budget
Revenue					
01-0-3010-301	Meter Reconnection Fee	-	250	300	-
01-0-3010-302	Donated Capital - Meters Curre	15,000	25,000	25,000	15,000
01-0-4010-400	Water Sales Residential	315,917	249,689	299,627	299,627
01-0-4010-402	Water Availability Revenue	186,971	156,311	187,573	187,573
01-0-4010-403	Water Service Charges	951,430	798,110	957,732	957,732
01-0-4020-410	Interest Income - LAIF	2,322	3,758	4,510	4,510
01-0-4020-413	Int Inc Penalties - Customer	28,847	23,079	27,694	27,694
01-0-4020-414	Transfer Fee Income	7,680	5,000	6,000	6,000
01-0-4020-415	Other Income	5,536	6,562	7,874	7,874
01-0-4020-416	Meter Set Fee	1,800	3,500	4,200	4,200
01-0-4020-417	Interest Income Guaranty Fed	-	-	-	-
01-0-4020-900	Hydrant Service Charge		333	333	333
01-0-4020-901	Hydrant Rental	192	640	768	768
01-0-4020-902	Hydrant Consumption	48	2,111	2,533	2,533
01-0-4020-999	Avail Fee Income	1,607	1,771	1,771	1,771
01-0-4040-100	Lease Fee	43,200	29,070	34,884	34,884
01-0-4050-575	Office Fire Reimbursement	32,000	-	-	-
TBD	Connection/Capacity Fees	-	-	-	-
TBD	Transfer From Reserve	-	-	-	-
TOTAL REVENUE		1,592,550	1,305,184	1,560,800	1,550,500
Expenses					
01-1-5010-100	Regular Pay - Plant	156,093	74,223	89,067	103,521
01-1-5010-101	Overtime Pay	17,634	13,904	16,685	17,519
01-1-5010-102	Sick Pay	5,543	3,531	4,237	4,448
01-1-5010-104	Vacation Pay	7,498	5,631	6,757	7,095
01-1-5010-105	Holiday Pay	6,568	4,990	5,988	6,287
01-1-5010-200	PERS	9,665	7,539	9,047	9,499
01-1-5010-201	FICA/Medicare	13,367	7,960	9,552	10,030
01-1-5010-202	SUI	1,810	868	1,042	1,094
01-1-5010-203	Health Insurance	54,646	36,956	44,347	46,564
01-1-5010-204	Workers Compensation	6,054	5,688	6,826	7,167
01-1-5010-206	Dental Insurance	3,428	2,404	2,885	3,029
01-1-5010-546	Travel, Meetings & Mileage	3,000	169	202	212
01-1-5020-501	Lease Of Equipment	643	-	-	-
01-1-5020-510	Repair & Maintenance - Plant	18,000	1,936	2,323	18,000
01-1-5020-511	Repair & Maintenance - Vehicle	11,637	10,876	13,052	2,000
01-1-5020-512	Repair & Maintenance - Distribution	58,950	60,094	72,113	75,719
01-1-5020-515	R&M Transmission - Intake	10,000	13,862	16,635	32,000
01-1-5020-520	Small Tools & Equipment	2,923	2,113	2,535	2,662
01-1-5020-522	Gas, Oil & Lubricant - Plant	11,956	10,100	12,120	12,726
01-1-5020-524	Health & Safety	6,000	3,568	4,281	4,495
01-1-5020-529	Telephone - T & D	7,751	5,725	6,870	7,214
01-1-5020-544	Water Testing Fees	18,999	11,240	13,488	14,162
01-1-5020-545	Water System Fees	10,437	3,534	4,241	4,453
01-1-5020-548	Water Testing Materials	3,811	1,786	2,143	2,250
01-1-5021-521	Water Treatment Chemicals	40,000	16,712	20,054	21,057
01-1-5021-524	P G & E Power - Office	2,581	2,033	2,439	2,561

		2018-2019 Approved Budget	2018-2019 YTD Totals Thru 04/30/19	2018-2019 Projected Amounts	2019-2020 Proposed Budget
01-1-5021-525	P G & E Power - Intake	65,049	56,011	67,213	70,574
01-1-5021-526	P G & E Power - Well	3,000	220	264	277
01-1-5021-527	P G & E Power - Water Treatment	33,088	22,587	27,105	28,460
01-1-5021-528	P G & E Power - Distribution	31,868	28,657	34,389	36,108
01-1-5021-529	P G & E Power - Well 2	3,000	9,353	11,224	11,785
01-1-5021-530	P G & E Power - Medina	3,000	2,874	3,448	3,621
01-1-5021-532	P G & E Power - Well 5/6	3,000	2,468	2,962	3,110
01-1-5021-561	Purchased Water Actual-mid-p	76,546	56,652	67,982	71,381
01-1-5023-533	Outside Services	28,203	7,320	8,784	9,223
01-1-5023-535	Fire Protection/Weed Control	-	-	-	-
01-1-5023-537	Pest Control	5,836	4,568	5,482	5,756
01-1-5023-538	Engineering Services	10,000	6,204	7,445	27,817
01-1-5023-539	Employee Education	4,000	166	199	209
01-1-5024-540	Memberships	862	400	480	504
01-1-5024-542	Publications	618	914	1,097	1,151
01-1-5024-543	Licenses, Permits & Cert.	800	744	892	937
01-1-5032-583	Depreciation Expense	199,967	203,213	243,856	256,049
01-2-6010-100	Regular Pay - Administration	87,058	70,376	84,451	183,674
01-2-6010-101	Overtime Pay	2,466	1,719	2,063	2,166
01-2-6010-102	Sick Pay	5,969	5,589	6,707	7,042
01-2-6010-104	Vacation Pay	7,099	6,250	7,500	7,875
01-2-6010-105	Holiday Pay	4,459	3,710	4,452	4,675
01-2-6010-200	PERS	6,464	7,193	8,632	16,663
01-2-6010-201	FICA/Medicare	8,382	6,610	7,932	15,596
01-2-6010-202	SUI	1,580	861	1,034	1,519
01-2-6010-203	Health Insurance	23,873	19,737	23,684	53,069
01-2-6010-204	Workers Compensation	604	565	678	1,662
01-2-6010-206	Dental Insurance	1,804	1,593	1,911	2,007
01-2-6010-207	Vision Care	252	-	-	-
01-2-6010-546	Travel, Meetings & Mileage	1,200	39	47	49
01-2-6020-512	Propane	684	633	759	797
01-2-6020-515	Customer Billing Supplies	1,667	1,106	1,327	1,393
01-2-6020-529	Telephone - Admin	3,802	3,102	3,722	3,908
01-2-6020-530	Office Supplies	2,406	2,407	2,888	3,032
01-2-6020-531	Postage	9,042	6,264	7,517	7,892
01-2-6023-531	Computer IT	44,572	25,743	30,891	32,436
01-2-6023-533	Outside Services	136,017	104,805	125,766	62,054
01-2-6023-534	Temporary Outside Labor	-	-	-	-
01-2-6023-535	Office Cleaning Serv	1,512	1,360	1,632	1,714
01-2-6023-536	Legal Services	10,283	5,818	6,981	10,300
01-2-6023-537	Audit Services	12,350	7,000	8,400	8,820
01-2-6023-539	Employee Education	1,500	348	418	1,500
01-2-6024-540	Memberships	6,495	5,336	6,403	6,723
01-2-6024-542	Publications	3,137	1,079	1,295	1,360
01-2-6024-547	County Fees	101	80	96	101
01-2-6024-999	County Avail Fee	2,035	1,788	2,145	2,252
01-3-6025-100	Regular Pay	5,544	5,200	6,240	6,552
01-3-6025-201	FICA/Medicare	424	398	477	501
01-3-6025-546	Travel, Meetings & Mileage	2,000	59	70	74
01-9-6030-546	Travel, Meetings & Mileage	95	-	-	-
01-9-6030-569	Credit Card Service Charges	6,172	5,610	6,732	7,069

		2018-2019 Approved Budget	2018-2019 YTD Totals Thru 04/30/19	2018-2019 Projected Amounts	2019-2020 Proposed Budget
01-9-6030-572	Business Insurance Expense	42,289	38,520	46,224	48,535
01-9-6030-576	Misc Other Expense	2,000	222	267	280
01-9-6030-577	Retired Employee Health	27,655	22,591	27,109	28,464
01-9-6030-580	Retired EE Benefit Expense	148,142	-	148,142	155,549
01-9-6031-580	Interest Long Term Debt	44,692	32,265	38,718	40,654
01-9-6032-583	Depreciation Expense	219	174	209	219
TOTAL EXPENSES		1,623,876	1,105,938	1,475,268	1,670,904

		2018-2019 Approved Budget	2018-2019 YTD Totals Thru 04/30/19	2018-2019 Projected Amounts	2019-2020 Proposed Budget
CAPITAL IMPROVEMENT PROJECTS (IN PROGRESS)					
		-	-	-	
01-0-1090-314	CIP-Barge Renovation	80,000	1,988	1,988	50,000
TBD	Springbrook Update	30,000	-	-	
01-0-1090-305	Ranchito Well #1 Renovation	15,000	6,155	36,155	40,000
01-9-6030-591	IRWMP Service Lines	950,000	389,133	1,101,133	
01-9-6030-592	IRWMP Administrative Expenses	11,307	1,820	1,820	
01-9-6030-593	IRWMP Water Use Efficiency	83,369	86,989	86,989	
TOTAL CIP IN PROGRESS		1,169,676	486,084	1,228,084	90,000
CARRYOVER PROJECT (GRANT) REVENUE					
01-0-4020-428	USDA Grant	-	-	-	
TBD	DWR Grant	86,520	86,520	86,520	
01-0-4020-425	IRWMP Service Line Replacement	847,287	183,973	183,973	
01-0-4020-427	IRWMP Regional Water Use Efficiency	107,260	115,264	115,264	
01-0-4020-426	IRWMP Grant Administration	12,000	4,380	4,380	
01-0-4020-429	Flood Reimb		45,672	45,672	
TOTAL CARRYOVER PROJECT REVENUE		1,053,067	435,810	435,810	-
NEW CAPITAL PURCHASES / IMPROVEMENTS					
TBD	Replacement Truck			-	75,000
TBD	Tablets for System Maintenance			-	
01-0-1090-318	SCADA Improvments 2019	55,000	33,624	50,000	
01-0-1090-319	Fire Hydrant Replace 18/19		26,958		
01-0-1090-320	Alamo, enebro, & Intake		2,041		
TBD	Water fee rate study				60,000
TBD	Intake pump				60,000
TOTAL NEW CAPITAL PURCHASES/IMPROVEMENTS		55,000	62,623	50,000	195,000
PROJECT PLANNING, DESIGN AND STUDIES					
TBD	CIP Development	20,000	0	-	
TBD	Connection Fee Study	10,000	0	-	
01-9-6030-594	Grant Application Services	19,000	54,194	54,194	
01-9-6030-594	District Map Digitizing and Updates	5,000	-	-	
TBD	Planning Study re Lake McClure	-	-	-	
TOTAL PLANNING, DESIGN AND STUDIES		54,000	54,194	54,194	-

	2018-2019 Approved Budget	2018-2019 YTD Totals Thru 04/30/19	2018-2019 Projected Amounts	2019-2020 Proposed Budget
--	---------------------------------	--	-----------------------------------	---------------------------------

BUDGET SUMMARY

OPERATING REVENUE	1,592,550	1,305,184	1,560,800	1,550,500
OPERATING EXPENSES	1,623,876	1,105,938	1,475,268	1,670,904
INCOME/LOSS FROM OPERATIONS	(31,326)	199,246	85,532	(120,404)
LOAN PAYMENTS (PRINCIPAL)	75,713	75,313	79,507	79,507
TOTAL CIP AND STUDIES	1,278,676	602,901	1,332,278	285,000
TOTAL OPERATING EXPENSES PLUS LOAN & CIP	2,978,265	1,784,152	2,887,052	2,035,411
NET REVENUE OVER EXPENSES INCLUDING PROJECTS AND GRANTS	(332,648)	(43,159)	(890,443)	(484,911)
DEPRECIATION (ADD BACK IN)	200,186	203,387	244,065	256,268
GASB 45 LIABILITY	148,142	-	148,142	155,549
TRANSFER FROM RESERVES	-	-	-	-
FINAL NET INCOME/LOSS	15,680	160,229	(498,236)	(73,094)

Appendix I

2017-18 Audit

**LAKE DON PEDRO
COMMUNITY SERVICES DISTRICT**

ANNUAL FINANCIAL REPORT

For the Fiscal Year Ended June 30, 2018

LAKE DON PEDRO COMMUNITY SERVICES DISTRICT

TABLE OF CONTENTS

JUNE 30, 2018

Management’s Discussion and Analysis	1-4
Independent Auditors’ Report	5-6
<i>Government-Wide Financial Statements</i>	
Statement of Net Position – Proprietary Funds	7
Statement of Activities, and Changes in Net Position – Proprietary Funds	8
Statements of Cash Flows – Proprietary Funds	9
Notes to the Financial Statements	10-25
Schedule of Required Supplementary Information- Pension Plan	26
Other Auditor’s Report	
Report on Internal Control over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance with <i>Government Auditing Standards</i>	27-28

**LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
MANAGEMENT'S DISCUSSION AND ANALYSIS**

June 30, 2018

This section of the annual financial report of the Lake Don Pedro Community Services District (District) presents the discussion and analysis of the District's financial performance during the fiscal year ended June 30, 2018. The Management's Discussion and Analysis (MD&A) should be read in conjunction with the District's financial statements, including the notes and the supplementary information that immediately follow this section.

FINANCIAL HIGHLIGHTS

The following summarizes the District's financial highlights for the year ended June 30, 2018.

- Total assets of the District were \$6,283,891 in 2018 and \$5,813,950 in 2017, an increase of \$469,941.
- Total liabilities increased by \$239,456 during the same period.
- Operating revenues increased by \$29,452 during the same period.
- Operating expenses increased by \$171,822.

OVERVIEW OF THE FINANCIAL STATEMENTS

This financial report consists of the following basic parts: management's discussion and analysis (this section) of the basic financial statements.

The basic financial statements contained in this report are presented using Governmental Accounting Standard's Board (GASB) accounting principles. These statements provide overall information about The District's financial activities on both a short-term and long-term basis. The statement of net position presents information about its assets (resources) and liabilities (the amount obligated to its creditors). The statements of revenues, expenses, and changes in net position present information about the current year revenues and expenses. The statement also provides useful information for determining whether the District's service revenue and other revenue sources were sufficient to allow the District to recover all of its costs. The final financial statement in this report is the statement of cash flows, which provides information about The District's cash from operations, investing, and financing activities. In addition, this statement provides useful information to answer questions such as where cash came from, what cash was used for, and what was the change in cash balance during the reporting period.

LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
MANAGEMENT'S DISCUSSION AND ANALYSIS
June 30, 2018

OVERVIEW OF FINANCIAL STATEMENTS (Continued)

FUND FINANCIAL STATEMENTS

Proprietary fund - All of the District's expenses incurred for the provision of Water Services are reported to a proprietary fund, which focuses on measuring the total costs of the service, including depreciation, and primarily recovering those costs through user charges or other revenue sources. This fund is reported using the accrual basis of accounting, which recognizes revenue where earned and expenses when incurred.

NET POSITION

As of June 30, 2018, the District had net position totaling \$3,717,173. Below is a table showing the District's net position at year end with comparative numbers for 2018 and 2017.

TABLE 1: NET POSITION

	<u>June 30, 2018</u>	<u>June 30, 2017</u>
Assets		
Cash and Investments	\$ 964,048	\$ 773,155
Other Assets	432,168	322,044
Capital Assets-Net	<u>4,887,675</u>	<u>4,718,751</u>
 Total Assets	 <u>6,283,891</u>	 <u>5,813,950</u>
Liabilities		
Loan Payable	817,593	893,306
Other Liabilities	<u>1,749,125</u>	<u>1,433,956</u>
 Total Liabilities	 <u>2,566,718</u>	 <u>2,327,262</u>
Net Position		
Invested in Capital Assets, Net of Related Debt	4,070,082	3,825,445
Unrestricted (Deficit)	<u>(352,909)</u>	<u>(338,757)</u>
 Total Net Position	 <u>\$ 3,717,173</u>	 <u>\$ 3,486,688</u>

**LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
MANAGEMENT'S DISCUSSION AND ANALYSIS
June 30, 2018**

NET POSITION (Continued):

The District has invested 109.49% of its total net position in capital assets, which total \$4,070,082, net of related debt.

After stabilizing the District's financial position, we have returned to policy specifications where the LAIF account cannot be accessed without Board approval.

GOVERNMENTAL ACTIVITIES

The District's total revenues exceeded expenses by \$230,485. Total revenues for the year were \$2,003,079. Of this, \$1,493,814 was received from operating revenues, \$1,935 from investment earnings, \$41,400 from miscellaneous sources and \$465,930 from various grants. Prior year's total revenue was \$1,991,481.

Expenses totaled \$1,772,594 attributable to water service. Prior year's expenses were \$1,604,414.

CAPITAL ASSETS

During fiscal year 2018, the District purchased a net amount of \$464,321 in capital assets with District and grant funds. The majority of capital asset additions were drought emergency wells.

TABLE 2: CAPITAL ASSETS

	<u>June 30, 2018</u>	<u>June 30, 2017</u>
Capital Assets		
Land	\$ 157,325	\$ 157,325
Plant and Structures	9,863,471	9,402,967
Equipment and Vehicles	1,431,448	1,697,912
Construction in Progress	459,401	288,978
Less: Accumulated Depreciation	<u>(7,023,970)</u>	<u>(6,828,432)</u>
 Total Capital Assets -Net	 <u>\$ 4,887,675</u>	 <u>\$ 4,718,750</u>

**LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
MANAGEMENT'S DISCUSSION AND ANALYSIS**

June 30, 2018

LONG-TERM DEBT

The Water District also had a loan with Municipal Finance Corporation for the Treatment Plant Upgrades with a balance of \$817,593. Payments of principal for 2018 and 2017 totaled \$75,713 and \$72,100, respectively. Interest paid for 2018 and 2017 totaled \$42,214 and \$45,856, respectively.

CONTACTING THE DISTRICT'S FINANCIAL MANAGEMENT

This financial report is designed to provide our citizens and taxpayers with a general overview of the finances of those funds maintained by the District and to show the District's accountability for the money it receives. If you have questions about this report or need additional information, contact Lake Don Pedro Community Service District at 9751 Merced Falls Road, La Grange, CA 95329.



Blomberg & Griffin Accountancy Corporation
Certified Public Accountant

INDEPENDENT AUDITOR'S REPORT

To The Board of Directors
Lake Don Pedro Community Services District
La Grange, California

We have audited the accompanying financial statements of governmental activities of Lake Don Pedro Community Services District, as of and for the years ended June 30, 2018, and the related notes to the financial statements, which collectively comprise the District's basic financial statements as listed in the table of contents. The prior year summarized comparative information has been derived from the District's 2017 financial statements which we audited and expressed an unqualified opinion.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express opinions on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the *State Controller's Minimum Audit Requirements for California Special Districts*. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Opinions

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of Lake Don Pedro Community Services District, as of June 30, 2018, and the respective changes in financial position thereof for the year then ended, in accordance with accounting principles generally accepted in the United States of America.

Other Matters

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and schedule of required supplementary information on pages 1 through 4 and page 27, respectively, be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Reporting Required by Government Auditing Standards

In accordance with Government Auditing Standards, we have also issued our report dated December 19, 2018 on our consideration of the Lake Don Pedro Community Services District's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with Government Auditing Standards in considering Lake Don Pedro Community Services District's internal control over financial reporting and compliance.



Blomberg & Griffin A.C.
Stockton, California
December 19, 2018

LAKE DON PEDRO COMMUNITY SERVICES DISTRICT

Statement of Net Position - Proprietary Funds

June 30, 2018 and 2017

	Business-Type Activities Enterprise Fund	
	2018	2017
Asset		
Cash And Invesments	\$ 964,048	\$ 773,155
Accounts Receivable	156,231	146,715
Prepaid Expense	48,839	50,938
Inventory	69,931	69,932
Land	157,325	157,325
Construction In Progress	459,401	288,978
Fixed Assets	11,294,919	11,100,880
Accumulated Depreciation	(7,023,970)	(6,828,432)
Deferred Outflows of Resources- Pension (Note-6)	157,167	54,459
Total Assets	6,283,891	5,813,950
Liabilities		
Accounts Payable	110,495	61,332
Interest Payable	11,801	12,880
Accrued Payroll	9,200	10,068
Compensated Absences	43,306	35,159
Net OEPB Liability (Note-4)	1,168,000	1,049,179
Net Pension Liability (Note-5)	310,692	195,610
Loans Payable	817,593	893,306
Deferred Inflows of Resources- Pension (Note-6)	95,631	69,728
Total Liabilities	2,566,718	2,327,262
Net Position		
Invested In Capital Assets -		
Net of Related Debt	4,070,082	3,825,445
Unrestricted (Deficit)	(352,909)	(338,757)
Total Net Position	\$ 3,717,173	\$ 3,486,688

See accompanying notes to basic financial statements.

LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
Statements of Activities and Changes in Net Position - Proprietary Funds
For the Years Ended June 30, 2018 and 2017

	Business-Type Activities Enterprise Fund	
	2018	2017
Operating Revenues		
Water Sales And Assessments	\$ 1,449,038	\$ 1,411,290
Transfer Connection and Meter Fees	16,720	29,549
Interest and Penalties On Delinquent Accounts	28,056	23,523
	<u>1,493,814</u>	<u>1,464,362</u>
Operating Expenses		
Salaries And Benefits - Plant	186,076	277,942
Salaries And Benefits - Administrative	151,637	147,409
Post Retirement Benefit	194,459	141,330
Supplies And Services - Plant	797,106	586,760
Supplies And Services - Administrative	205,564	241,903
Depreciation	195,538	163,214
	<u>1,730,380</u>	<u>1,558,558</u>
Operating Income (Loss)	<u>(236,566)</u>	<u>(94,196)</u>
Nonoperating Revenues (Expenses)		
Grant Income (Drought Emergency)	465,930	491,060
Investment Earnings	1,935	1,059
Miscellaneous	41,400	35,000
Interest Expense	(42,214)	(45,856)
	<u>467,051</u>	<u>481,263</u>
Change In Net Position	230,485	387,067
Total Net Position - Beginning of Year	<u>3,486,688</u>	<u>3,099,621</u>
Total Net Position - End of Year	<u>\$ 3,717,173</u>	<u>\$ 3,486,688</u>

See accompanying notes to basic financial statements.

LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
Statements of Cash Flows - Proprietary Funds
For the Years Ended June 30, 2018 and 2017

	Business-Type Activities Enterprise Fund	
	2018	2017
Cash Flows From Operating Activities		
Receipts From Customers	\$ 1,484,298	\$ 1,691,695
Payments To Suppliers	(988,768)	(840,594)
Payments To Employees	(330,434)	(377,069)
Net Cash Provided By (Used In) - Operating Revenues	165,096	474,032
Cash Flows From Non- Capital Financing Activities		
Miscellaneous Income	41,400	35,000
Net Cash Provided by (Used In) Non-Capital - Financing Activities	41,400	35,000
Cash Flows From Capital And Related - Financing Activities		
Grants Income	465,930	491,060
Capital Asset	(194,039)	(734,284)
Construction In Progress	(170,423)	-
Principal Payments On Long Term Debt	(75,713)	(72,100)
Interest Paid	(43,293)	(45,856)
Net Cash Provided by (Used In) Capital - And Related Financing Activities	(17,538)	(361,180)
Cash Flows From Investing Activities		
Interest Received	1,935	1,059
Net Cash Provided by (Used In) Investing Activities	1,935	1,059
Net Increase (Decrease) In Cash	190,893	148,911
Cash and Investments - Beginning	773,155	624,244
Cash and Investments - Ending	\$ 964,048	\$ 773,155
Reconciliation of Operating Loss to Net Cash Provided by Operating Activities		
Operating Income (Loss)	\$ (236,566)	\$ (94,196)
Adjustments to Reconcile Operating Loss to Net Cash Provided by Operating Activities		
Depreciation	195,538	163,214
Change in Assets and Liabilities		
Accounts Receivable	(9,516)	229,906
Prepaid Expenses and Other Current Assets	2,100	(2,574)
Accounts Payable	49,163	15,240
Accrued Expenses and other liabilities	7,279	3,117
Retirement Obligations	157,098	159,325
Net Cash Provided by (used for) Operating Activities	\$ 165,096	\$ 474,032

See accompanying notes to basic financial statements.

LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
JUNE 30, 2018

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The basic financial statements of the Lake Don Pedro Community Services District have been prepared in conformity with accounting principles generally accepted in the United States of America (GAAP). The Governmental Accounting Standards Board (GASB) is the accepted standard-setting body for establishing governmental accounting and financial reporting principles. In June 1999, the GASB unanimously approved Statement No. 34, *Basic Financial Statements – and Management's Discussion and Analysis for State and Local Governments*. Certain of the significant changes in the statement include the following:

The financial statements include:

- A Management's Discussion and Analysis (MD&A) section providing an analysis of the District's overall financial position and results of operations.
- Financial statements prepared using the full accrual accounting for all of the District's activities, including infrastructure.
- A change in the financial statements to focus on the major funds.

These and other changes are reflected in the accompanying financial statements (including notes to financial statements).

The more significant of the Districts accounting policies are described below:

A. Financial Reporting Entity

The Lake Don Pedro Community Services District was incorporated in August 1980. The District was formed to supply the inhabitants of the District with water for domestic use, irrigation, sanitation, industrial use, fire protection, and recreation.

The District operates under a Board of Directors form of government. The Board of Directors consists of five members elected at large for overlapping four year terms. The district appoints legal counsel.

B. Measurement Focus, Basis of Accounting and Financial Statement Presentation

The proprietary fund Financial Statements are reported using the economic resources measurement focus and the accrual basis of accounting. Revenues are recorded when earned and expenses are recorded when a liability is incurred, regardless of the timing of related cash flows: The District reports the following major proprietary funds:

The **Water Fund** accounts for the activities of the District's water service.

**LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
JUNE 30, 2018**

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

C. Assets, Liabilities, Net Position or Equity

1. Cash and Investments

Cash and cash equivalents include amounts in demand deposits as well as short-term investments with a maturity date within three months of the date acquired by the District. The District follows the practice of pooling the cash from all funds for investment purposes.

California State statute authorizes the District to invest in obligations of the U.S. Treasury, commercial paper, corporate bonds and repurchase agreements. Investments are stated at fair value.

2. Receivables and Payables

Billings for water services are sent monthly and are reflected on the accrual basis of accounting. Delinquent accounts are submitted to the Counties of Mariposa and Tuolumne and are attached to the County tax roles.

3. Prepaid Items

Payments made to vendors for services that will benefit periods beyond June 30, 2018 are recorded as prepaid items.

4. Restricted Assets

Certain proceeds of revenue bonds, as well as certain resources set aside for their repayment, are classified as restricted assets on the balance sheet because their use is limited by applicable bond covenants.

5. Capital Assets

Capital assets are defined by the District as assets with an initial, individual cost of \$2,500 for equipment and \$25,000 for buildings and infrastructure. Such assets are recorded at historical cost or estimated historical cost if purchased or constructed. Donated capital assets are recorded at their estimated fair value at the date of donation. The cost of normal maintenance and repairs that do not add to the value of the asset or materially extend assets lives are not capitalized.

Depreciation is recorded in amounts sufficient to relate the cost of the depreciable assets to operations over their estimated service life using the straight-line method.

LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
JUNE 30, 2018

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

6. Compensated Absences

District employees earn vacation leave, and compensation time. It may be either taken or accumulated with prior approval of the general manager. Vacation is paid upon termination or retirement. Vacation and sick leave may be accumulated without limitation. Sick leave is not paid if an employee quits or is terminated, however, a 100% credit is allowed for eligible employee for longevity of service on retirement. In accordance with generally accepted accounting principles, an accrual for compensated absences is reflected in the accompanying general purpose financial statements.

7. Long-term Debt

Long-term debt and other obligations financed by proprietary funds are reported as liabilities in the appropriate funds

8. Net Position & Fund Equity

In proprietary fund financial statements, net position is reported in three categories: net position invested in capital assets, net of related debt; restricted net position and unrestricted net position. Restricted net position represents net position restricted by parties outside the District (such as creditors, grantors, contributors, laws and regulations of other governments).

All other net position is considered unrestricted.

Proprietary funds contributed capital represents equity acquired through capital grants and capital contributions from developers, customers, or other funds.

9. Use of Estimates

The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results could differ from those estimates.

**LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
JUNE 30, 2018**

NOTE 2 - STEWARDSHIP, COMPLIANCE AND ACCOUNTABILITY

A. Budgetary Information

Annual budgets are adopted on a basis consistent with generally accepted accounting principles. Annual appropriated budgets are adopted for all funds. All annual appropriations lapse at fiscal year-end.

Prior to June 30th, the proposed budget is presented to the Board of Directors for review. The Board of Directors holds public hearings and may add to, subtract from or change appropriations.

NOTE 3 - DETAILED NOTES ON ALL FUNDS AND ACCOUNT GROUPS

A. Cash and Investments

Cash and investments as of June 30, 2018 and 2017 are classified in the accompanying financial statements as follows:

Statement of Net Position

	2018	2017
Cash and Investments	\$ 964,048	\$ 773,155

Cash and investments as of June 30, 2018 and 2017 consist of the following:

Cash on Hand	\$ 125	\$ 125
Deposits with Financial Institutions	798,254	609,296
Local Agency Investment Fund	165,669	163,734
Total Cash and Investments	\$ 964,048	\$ 773,155

**LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
JUNE 30, 2018**

**NOTE 3 - DETAILED NOTES ON ALL FUNDS AND ACCOUNT GROUPS
(Continued)**

Investments Authorized by the District's Investment Policy

The District's investment policy authorizes investment in the local government investment pool administered by the State of California (LAIF). The District's investment policy also authorizes cash to be invested in Certificates of Deposits, Bankers Acceptances, and Passbook Savings Demand Deposits. The District's investment policy does not contain any specific provisions intended to limit the District's exposure to interest rate risk, credit risk, and concentration of credit risk.

Disclosures Relating to Interest Rate Risk

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of an investment. Generally, the longer the maturity of an investment, the greater the sensitivity of its fair value to changes in market interest rates. As of year-end, the weighted average maturity of the investments contained in the LAIF investment pool is approximately 6.36 months.

		Maturity Date
State Investment Pool	<u>\$ 165,669</u>	6.36 months average maturity
Total	<u><u>\$ 165,669</u></u>	

LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
JUNE 30, 2018

NOTE 3 - DETAILED NOTES ON ALL FUNDS AND ACCOUNT GROUPS
(Continued)

Disclosures Relating to Credit Risk

Generally, credit risk is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. This is measured by the assignment of a rating by a nationally recognized statistical rating organization. LAIF does not have a rating provided by a nationally recognized statistical rating organization.

Concentration of Credit Risk

The investment policy of the District's contains no limitations on the amount that can be invested in any one issuer beyond that stipulated by the California Government Code.

Custodial Credit Risk

Custodial credit risk for deposits is the risk that, in the event of the failure of a depository financial institution, a government will not be able to recover its deposits or will not be able to recover collateral securities that are in the possession of an outside party. The California Government Code and the District's investment policy do not contain legal or policy requirements that would limit the exposure to custodial credit risk for deposits, other than the following provision for deposits: The California Government Code requires that a financial institution secure deposits made by state or local governmental units by pledging securities in an undivided collateral pool held by a depository regulated under state law (unless so waived by the governmental unit). The market value of the pledged securities in the collateral pool must equal at least 110% of the total amount deposited by the public agencies. California law also allows financial institutions to secure District deposits by pledging first trust deed mortgage notes having a value of 150% of the secured public deposits.

At June 30, 2018, the District's deposits with financial institutions were covered by Federal Depository Insurance Corporation (FDIC) or the multiple financial institution collateral pool that insures public deposits. The custodial credit risk for investments is the risk that, in the event of the failure of the counterparty (e.g., broker-dealer) to a transaction, a government will not be able to recover the value of its investment or collateral securities that are in the possession of another party. The California Government Code and the District's investment policy do not contain legal or policy requirements that would limit the exposure to custodial credit risk for investments. With respect to investments, custodial credit risk generally applies only to direct investments in marketable securities. Custodial credit risk does not apply to a local government's indirect investment in securities through the use of mutual funds or government investment pools (such as LAIF).

**LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
JUNE 30, 2018**

**NOTE 3 - DETAILED NOTES ON ALL FUNDS AND ACCOUNT GROUPS
(Continued)**

Investment in State Investment Pool

The District is a voluntary participant in the Local Agency Investment Fund (LAIF) that is regulated by the California Government Code under the oversight of the Treasurer of the State of California. The fair value of the District's investment in this pool is reported in the accompanying financial statements at amounts based upon the District's pro-rata share of the fair value provided by LAIF for the entire LAIF portfolio (in relation to the amortized cost of that portfolio). The balance available for withdrawal is based on the accounting records maintained by LAIF, which are recorded on an amortized cost basis with funds generally available next business day.

Deferred Compensation Plan

The District offers its employees a deferred compensation plan created in accordance with Internal Revenue Code Section 457. The District deposits deferred compensation plan assets with the California Public Employees Retirement System (PERS). Federal legislation requires that the assets of such plans be held in trust for the exclusive benefit of the plan participants and their beneficiaries. PERS act as the trustees for the plan assets and the District is considered to have limited fiduciary responsibility for the plan assets. As such, the District does not report the deferred compensation plan assets on its financial statements.

B. Accounts Receivable

Receivables at June 30, 2018 and 2017 for the District's water services are sent monthly and are reflected on the accrual basis of accounting. Delinquent accounts are submitted to the Counties of Mariposa and Tuolumne and are attached to the County tax role. All receivables are expected to be collected within one year.

	Water	
	2018	2017
Business-Type Activities		
Utility Billings	\$ 156,231	\$ 146,715
Total	\$ 156,231	\$ 146,715

**LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
JUNE 30, 2018**

**NOTE 3 - DETAILED NOTES ON ALL FUNDS AND ACCOUNT GROUPS
(Continued)**

C. Payables And Other Liabilities

Payables at June 30, 2018 and 2017 for the District's individual major funds in the aggregate are as follows:

	<u>2018</u>	<u>2017</u>
Business-Type Activity		
Vendors	\$ 110,495	\$ 61,244
Salaries and Benefits	9,200	10,068
Accrued Compensated Absences	43,306	35,159
Interest Payable	<u>11,801</u>	<u>12,880</u>
 Total	 <u>\$ 174,802</u>	 <u>\$ 119,351</u>

Capital Assets

Capital asset activity for the year ended June 30, 2018 was as follows:

Depreciation was charged to functions/programs of the primary government as follows:

	<u>Balance 2017</u>	<u>Increase</u>	<u>Decrease</u>	<u>Balance 2018</u>
Business-Type Activities				
Capital Assets not Being Depreciated:				
Land	\$ 157,325	\$ -	\$ -	\$ 157,325
Construction in Progress	<u>288,978</u>	<u>204,838</u>	<u>34,415</u>	<u>459,401</u>
Total Capital Assets not Depreciated	<u>446,303</u>	<u>204,838</u>	<u>34,415</u>	<u>616,726</u>
Capital Assets Depreciated:				
Plant	8,964,448	460,504	-	9,424,952
Equipment	1,566,402	3,817	270,281	1,299,938
Structure	438,519	-	-	438,519
Vehicles	<u>131,510</u>	<u>-</u>	<u>-</u>	<u>131,510</u>
Total Capital Assets Depreciated	11,100,879	464,321	270,281	11,294,919
Less Accumulated Depreciation	<u>(6,828,432)</u>	<u>(195,538)</u>	<u>-</u>	<u>(7,023,970)</u>
Net Capital Assets Depreciated	<u>4,272,447</u>	<u>268,783</u>	<u>270,281</u>	<u>4,270,949</u>
 Total Net Capital Assets - Business-Type Activities	 <u>\$ 4,718,750</u>	 <u>\$ 473,621</u>	 <u>\$ 304,696</u>	 <u>\$ 4,887,675</u>

**LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
JUNE 30, 2018**

**NOTE 3 - DETAILED NOTES ON ALL FUNDS AND ACCOUNT GROUPS
(Continued)**

D. Capital Assets (continued)

Depreciation was charged to functions/programs of the primary government as follows:

Business-Type Activity	Water	
	2018	2017
Depreciation Expense	\$ 195,538	\$ 163,214
Total	\$ 195,538	\$ 163,214

E. Long-Term Debt

The District secured financing with board approval on July 17, 2006 in the amount of \$1,500,000 for the improvements for the water treatment plant. Repayment will be made to the Municipal Financial Corporation in semi-annual payments of \$59,503 including interest at 4.95% through 2026. Note is secured by all net revenues.

The annual debt service requirements of the notes payable are as follows:

Year Ending June 30,	Muni	
	Principal	Interest
2019	\$ 79,507	\$ 39,499
2020	83,491	35,515
2021	87,676	31,330
2022	92,069	26,937
2023-2027	474,850	60,678
Total	\$ 817,593	\$ 193,959

**LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
JUNE 30, 2018**

**NOTE 3 - DETAILED NOTES ON ALL FUNDS AND ACCOUNT GROUPS
(Continued)**

E. Long-Term Debt (Continued)

The following is a summary of changes in the District's long-term debt and other long-term liabilities during the year ended June 30, 2018:

	<u>Beginning Balance</u>	<u>Additions</u>	<u>Deductions</u>	<u>Ending Balance</u>	<u>Due Within One Year</u>
Business-Type Activities					
Loans Payable	\$ 893,306	\$ -	\$ (75,713)	\$ 969,019	\$ 79,507
Compensated Absences	<u>35,159</u>	<u>8,147</u>	<u>-</u>	<u>43,306</u>	<u>4,331</u>
Total Long-Term Liabilities	<u>\$ 928,465</u>	<u>\$ 8,147</u>	<u>\$ (75,713)</u>	<u>\$1,012,325</u>	<u>\$ 83,838</u>

NOTE 4 - OTHER INFORMATION

A. Risk Management

The District is exposed to various risks of loss to torts; theft of, damage of, and destruction of assets; errors and omissions; injuries to employees; and natural disasters. The District joined together with other special districts for insurance coverage under Special District Risk Management Authority (SDRMA). The District pays an annual premium to SDRMA for its general insurance coverage.

The District continues to carry commercial insurance for all other risks of loss, including workers' compensation, and employee health and accident insurance.

B. Commitments and Contingencies

The District has received various grants subject to audit by the grantor agencies. Any liability for reimbursement that may arise as a result is believed to be immaterial by management.

C. Post-Employment Benefits

The District implemented GASB Statement No. 75, *Financial Reporting for Postemployment Benefit Plans (OPEB) other than Pension Accounting and Financial Reporting by Employers for Postemployment Benefits other than Pension Plans* in FYE 2018. The District provides certain health care benefits which are recognized as an expenditure of health care premiums paid.

**LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
JUNE 30, 2018**

NOTE 4 - OTHER INFORMATION (Continued)

Significant Actuarial Assumptions Used for Total OPEB Liability:

Actuarial Assumption	June 30, 2018 Measurement Date
Actuarial Valuation Date	30-Jun-18
Contribution Policy	No pre-funding
Discount Rate	3.87% at June 30, 2018 (Bond Buyer 20-bond Index)
General Inflation	2.75% annually
Mortality, Retirement, Disability, Termination	CalPERS 1997-2015 Experience Study
Mortality Improvement	Post-retirement mortality projected fully generational with Scale MP-17
Salary Increases	Aggregate - 3% Annually. Merit - Tables from CalPERS 1997-2015 Experience Study
Medical Trend	Non-Medicare - 7.5% fro 2020, decreasing to an ultimate rate of 4.0% in 2076 and later years. Medicare - 6.5% for 2020, decreasing to an ultimate rate of 4.0% in 2076 and later years.
Medical Participation at Retirement	100%
Medical Plan at Retirement	Currently covered - Same as current election Currently waived - n/a

Sensitivity of the Net OPEB Liability to changes in the Trend rate – The following presents the District’s Net OPEB Liability if it were calculate using a trend table that is 1% point lower or 1% point higher than the current rate:

Net OPEB Liability as of June 30, 2017 measurement date: \$1,168,600.

Sensitivity of Total OPEB Liability: Changes in the Discount Rate

	<u>1% Decrease (2.87%)</u>	<u>Current Rate (3.87%)</u>	<u>1% Increase (4.87%)</u>
Total OPEB Liability	\$ 1,391,506	\$ 1,168,600	\$ 993,546

Changes in the Healthcare Trend Rate

	<u>1% Decrease</u>	<u>Current Trend</u>	<u>1% Increase</u>
Total OPEB Liability	\$ 963,420	\$ 1,168,600	\$ 1,446,100

**LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
JUNE 30, 2018**

NOTE 4 - OTHER INFORMATION (Continued)

Schedule of OPEB Expenses for Fiscal Year Ended June 30, 2018:

Changes in Total OPEB Liability	
Balances at 6/30/2017	\$ 1,147,347
Changes for the year	
Service Cost	64,722
Interest	42,904
Benefit changes	-
Actual vs. expected experience	-
Assumption changes	(59,089)
Benefit payments	(27,284)
	21,253
Net Changes	21,253
Balance at 6/30/2018	\$ 1,168,600

Deferred Inflows/Outflows of Resources:

	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between expected and actual experience	\$ -	\$ -
Changes of Assumptions	-	48,901
Employer contributions made subsequent to the measurement date	-	-
Total	\$ -	\$ 48,901

Amounts reported as deferred outflows of resources and deferred inflows of resources related to OPEB will be recognized in OPEB expense as follows:

Fiscal Year Ended June 30	Deferred Outflows/(Inflows) of Resources
2019	\$ (10,188)
2020	(10,188)
2021	(10,188)
2022	(10,188)
2023	(8,149)
Thereafter	-
	\$ (48,901)

**LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
JUNE 30, 2018**

NOTE 5 - DISTRICT EMPLOYEES RETIREMENT PLAN (DEFINED BENEFIT PENSION PLAN)

DEFINED BENEFITS PENSION PLANS – Miscellaneous Plan

The District provides eligible employee's pension plans benefits through the Lake Don Pedro Community Services District – Miscellaneous Plan (The Plan).

Plan Description, Benefits Provided and Employees Covered

The plan is a cost-sharing multiple-employer defined benefit pension plan administered by the California Public Employees; Retirement System (CalPERS). A full description of the pension plan benefit provisions, assumptions for funding purposes but not accounting purposes, and membership information is listed in the June 30, 2017 Annual Actuarial Valuation Report. Details of the benefits provided can be obtained in Appendix B of the June 30, 2017 actuarial valuation report. This report is a publically available valuation report that can be obtained at CalPERS' website under Forms and Publications.

Contribution Description

Section 20814(c) of the California Public Employees' Retirement Law (PERL) requires that the employer contribution rates for all public employers are determined on an annual basis by the actuary and shall be effective on the July 1 following notice of a change in the rate. The total plan contributions are determined through the CalPERS' annual actuarial valuation process. For public agency cost-sharing plans covered by either the Miscellaneous or Safety risk pools, the Plan's actuarially determined rate is based on the estimated amount necessary to pay the Plan's allocated share of the risk pool's costs of benefits earned by employees during the year, and any unfunded accrued liability. The employer is required to contribute the difference between the actuarially determined rate and contribution rate of employees. For the measurement period ended June 30, 2017 (the measurement date), the active employee contribution rate is 6.900 percent of annual pay, and the average employer's contribution rate is 7.850 percent of annual payroll and unfunded accrual liability contribution is 2.701 percent. Employer contributions rates may change if plan contracts are amended. It is the responsibility of the employer to make necessary accounting adjustments to reflect the impact due to any Employer Paid Member Contributions or situations where members are paying a portion of the employer contribution

**LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
JUNE 30, 2018**

DEFINED BENEFITS PENSION PLANS – Miscellaneous Plan (Continued)

Actuarial Methods and Assumptions Used to Determine Total Pension Liability

For the measurement period ending June 30, 2017 (the measurement date), the total pension liability was determined by rolling forward the June 30, 2016 total pension liability. Both the June 30, 2016 total pension liability and the June 30, 2017 total pension liability were based on the following actuarial methods and assumptions.

Actuarial Cost Method	Entry Age Normal in accordance with the requirements of GASB Statement No. 68
Actuarial Assumptions	
Discount Rate	7.15%
Inflation	2.75%
Salary Increases	Varies by Entry Age and Service
Mortality Rate Table	Delivered using CalPERS' Membership Data for all Funds
Post Retirement Benefit Increase	Contract COLA up to 2.75% until Purchasing Power Protection Allowance Floor on Purchasing Power applies 2.75% thereafter.

Discount Rate

The discount rate used to measure the total pension liability was 7.15 percent. To determine whether the municipal bond rate should be used in the calculation of a discount rate for each plan, CalPERS stress tested plans that would most likely results in a discount rate that would be different from the actuarially assumed discount rate. Based on the testing, none of the tested plans run out of assets. Therefore, the current 7.15 percent discount rate is adequate and the use of the municipal bond rate calculation is not necessary. The long term expected discount rate of 7.15 percent is applied to all plans in the Public Employees Retirement Fund. The stress test results are presented in a detailed report called "GASB Crossover Testing Report" that can be obtained at CalPERS' website under the GASB 68 section.

**LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
JUNE 30, 2018**

DEFINED BENEFITS PENSION PLANS – Miscellaneous Plan (Continued)

The following presents the net pension liability/(assets) of the Plan as of the measurement date, calculated using the discount rate of 7.15 percent, as well as what the net pension liability/(asset) would be if it were calculated using a discount rate that is 1 percentage-point lower (6.15 percent) or 1 percentage-point higher (8.15 percent) than the current rate:

	<u>Discount Rate - 1 % (6.15 %)</u>	<u>Current Discount Rate (7.15 %)</u>	<u>Discount Rate + 1 % (8.15 %)</u>
Net Pension Liability	\$536,282	\$310,692	\$123,855

PENSION EXPENSE AND DEFERRED OUTFLOWS AND DEFERRED INFLOWS

For the fiscal year ended June 30, 2018 and 2017, pension expense recognized is as follows:

	<u>2017</u>	<u>2018</u>
Service Cost	\$ 30,843	\$ 40,124
Interest on Total Pension Liability	93,069	110,347
Changes of Benefits Terms	96	198
Recognize Changes of Assumptions	(5,740)	17,919
Recognize difference between Expected and Actual Experience	514	(2,174)
Net Plan to Plan Resource Movement	(2,148)	2,667
Employee Contributions	(14,484)	(17,226)
Projected Earnings on Pension Plan Investment	(74,811)	(79,516)
Recognize difference between Project and Actual Earnings on Plan Investment	7,810	(314)
Deferred Outflows of Resources	-	16,506
Deferred Inflows of Resources	-	5,062
Administrative Expenses	608	1,667
Pension Expense	<u><u>\$ 35,757</u></u>	<u><u>\$ 95,260</u></u>

**LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
JUNE 30, 2018**

DEFINED BENEFITS PENSION PLANS – Miscellaneous Plan (Continued)

	Deferred Outflows of Resources	Deferred Inflows of Resources
Changes of Assumptions	\$ 68,438	\$ 7,902
Difference between Expected and Actual Experience	552	5,218
Difference between Projected and and Actual Investment	15,478	-
Difference between Employer's Contribution and Proportionate Share of Contribution	-	33,610
Changes in Employer's Proportion Pension Contribution Made Subsequent to Measurement Date	48,884	-
	23,815	-
 Total	 \$ 157,167	 \$ 46,730

Amounts reported as deferred outflows of resources related to pensions will be recognized in future pension expense as follows:

Measurement Period Ended June 30,	Deferred Outflows/(Inflows) of Resources
2019	\$ 44,694
2020	32,538
2021	18,578
2022	(9,189)
2023	-
Thereafter	-

NOTE 6 – SUBSEQUENT EVENTS

Management has evaluated subsequent events through January 22, 2019 the date which the financial statements were available to be issued.

LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
Schedule of Required Supplementary Information- Pension Plan
For the Years Ended June 30, 2018, 2017 and 2016

Schedule of the Plan's Proportionate Share of the Net Pension Liability

	<u>June 30, 2016</u>	<u>June 30, 2017</u>	<u>June 30, 2018</u>
Plan's Proportion of the Net Pension Liability/(Asset)	0.001%	0.00563%	0.00313%
Plan's Proportionate Share of the Net Pension Liability/(Asset)	\$ 131,415	\$ 195,610	\$ 310,692
Plan's Covered-Employee Payroll	\$ 77,723	\$ 165,150	\$ 191,364
Plan's Proportionate Share of the Net Pension Liability/(Asset) as a Percentage of its Covered-Employee Payroll	55.03%	84.43%	162.36%
Plan's Proportionate Share of the Fiduciary Net Position as a Percentage of the Plan's Total Pension Liability	0.00%	0.00%	73.31%
Plan's Proportionate Share of Aggregate Employer Contributions	\$ -	\$ -	\$ -

Schedule of Plan Contributions

	<u>June 30, 2016</u>	<u>June 30, 2017</u>	<u>June 30, 2018</u>
Actuarially Determined Contribution	\$ 18,621	\$ 21,388	\$ 23,815
Contributions in Relation to the Actuarially Determined Contribution	<u>(18,621)</u>	<u>(21,388)</u>	<u>(23,815)</u>
Contribution Deficiency (Excess)	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
Covered-Employee Payroll	\$ 72,723	\$ 165,150	\$ 174,478
Contributions as a Percentage of Covered-Employee Payroll	25.61%	12.95%	13.65%

Notes to Schedule

Change in Benefit Terms: The figures above do not include any liability impact that may have resulted from plan changes which occurred after June 30, 2016 as they have minimal cost impact.

Change in Assumptions: None



Blomberg & Griffin Accountancy Corporation
Certified Public Accountant

**INDEPENDENT AUDITORS' REPORT ON INTERNAL CONTROL OVER
FINANCIAL REPORTING AND ON COMPLIANCE AND OTHER MATTERS
BASED ON AN AUDIT OF FINANCIAL STATEMENTS PERFORMED IN
ACCORDANCE WITH *GOVERNMENT AUDITING STANDARDS***

Governing Board
Lake Don Pedro Community Services District
La Grange, California

We have audited the financial statements of the governmental activities, the business-type activities, and each major fund of Lake Don Pedro Community Services District as of and for the year ended June 30, 2018, which collectively comprise Lake Don Pedro Community Services District's basic financial statements and have issued our report thereon dated December 19, 2018. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the *State Controller's Minimum Audit Requirements for California Special Districts*.

Internal Control over Financial Reporting

In planning and performing our audit, we considered Lake Don Pedro Community Services District's internal control over financial reporting as a basis for designing our auditing procedures for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Lake Don Pedro Community Services District's internal control over financial reporting. Accordingly, we do not express an opinion on the effectiveness of the Lake Don Pedro Community Services District's internal control over financial reporting.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent or detect and correct misstatements on a timely basis. *A material weakness* is a deficiency, or combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis.

Our consideration of internal control over financial reporting was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over financial reporting that might be deficiencies, significant deficiencies or material weaknesses. We did not identify any deficiencies in internal control over financial reporting that we consider to be material weaknesses, as defined above.

Compliance and Other Matters

As part of obtaining reasonable assurance about whether Lake Don Pedro Community Services District's financial statements are free of material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matter that are required to be reported under Government Auditing Standards.

This report is intended solely for the information and use of the governing board, management, and the State Controller's Office, and is not intended to be and should not be used by anyone other than these specified parties.

A handwritten signature in cursive script that reads "Blomberg & Griffin A.C." with a small star-like symbol above the ampersand.

Blomberg & Griffin A.C.
Stockton, CA
December 19, 2018

Appendix J

MID Water Contract

GRISWOLD, LASALLE, COBB, DOWD & GIN, L.L.P.

ATTORNEYS

A California Limited Liability Partnership including Professional Corporations

311 N. DOUTY STREET
HANFORD, CA 93230

TELEPHONE (559) 584-6656 - FACSIMILE (559) 582-3106

Robert M. Dowd*
Robert W. Gin*
Randy L. Edwards
Jim D. Lee
Jeffrey L. Levinson*
Raymond L. Carlson
Ty N. Mizote*
Kristine M. Howe
Michael R. Johnson
Steven S. Dias
*a Professional Corporation

July 10, 2008

VIA UPS NEXT DAY AIR

TRACKING NO. 1Z F74 78R 22 1002 861 3

Kenneth M. Robbins
MASON, ROBBINS,
BROWNING & GODWIN
700 Loughborough, Suite D
Merced, CA 95348

Re: MID-Lake Don Pedro Community Services District Agreement

Dear Mr. Robbins:

Enclosed is Lake Don Pedro CSD's check no. 10345 in the amount of \$160,536.91 in payment of MID invoice nos. 427428, 471823, 472823, and 512157. Also enclosed is an original of the above Agreement which was approved and signed by the LDPCSD Board at a special meeting on June 30, 2008, so I propose we date the Agreement with that date. Exhibit A to the Agreement was produced by LDPCSD staff using GIS and is provided as an interim or place holder without warranty of accuracy until a final exhibit is produced. Exhibit B was previously provided to MID by Bob Kent's June 28, 2007 letter to Ms. Larson of your office.

Very truly yours,

GRISWOLD, LaSALLE, COBB,
DOWD & GIN, L.L.P.

By: 

RAYMOND L. CARLSON

Enclosures

cc: Bob Kent (w/encl.)
CARL\LDPCSD\MID\ROBBINS.710

Vendor: MERCED IRRIGATION DISTRICT
Vendor No: 000051 Vendor Acct No:

Check Date: 06/26/2008
Check Amount: \$160,536.91

<u>Invoice Number</u>	<u>Date</u>	<u>Description</u>	<u>Invoice Amount</u>
427428	03/21/2007	Domestic water contracts 10/05 to 6/06	60,615.31
471823	08/28/2007	Correction to wtr contract 10/05 to 6/06	2,085.00
472823	08/30/2007	Domestic water contract 1/07 to 6/07	35,848.80
512157	01/31/2008	Domestic water contract 7/07 to 12/07	61,987.80

10345

**LAKE DON PEDRO
COMMUNITY SERVICE DISTRICT**
9751 MERCED FALLS RD LA GRANGE, CALIFORNIA 95329
(209) 852-2331

**Guaranty
BANK**

90-7053/3211

DATE

AMOUNT

*** One hundred sixty thousand five hundred thirty-six dollars and Ninety-one cents

PAY
TO THE
ORDER
OF:

06/26/2008

\$160,536.91

MERCED IRRIGATION DISTRICT
720 WEST 20th ST.
MERCED, CA 95344

[Handwritten Signature]

[Handwritten Signature]

AUTHORIZED SIGNATURE

Security features. Details on back.

⑈010345⑈ ⑆321170538⑆ 3801317466⑈

AGREEMENT

This Agreement is made and entered into this ____ day of _____, 2008, by and between Merced Irrigation District, a California irrigation district, hereafter MID, and Lake Don Pedro Community Services District, a California community services district, hereafter CSD. This Agreement replaces that agreement executed between MID and Sierra Highlands Water Company, assignee of Pacific-Cascade Land Company, Inc., dated March 26, 1968, and that agreement dated October 7, 1969, between MID and David Solomon. CSD is the ultimate assignee of both contracts. The parties agree that this Agreement shall supersede each agreement which is hereby extinguished.

WITNESSETH:

WHEREAS, MID has developed water supplies on the Merced River by acquisition of pre-1914 water rights, state appropriated water rights and by the construction of New Exchequer Dam on the Merced River, thereby establishing the storage capacity of Lake McClure at 1,024,600 acre feet; and

WHEREAS, it is the desire of CSD to contract for the purchase of water from MID for beneficial use on the lands of CSD also contained in the place of use designation of the licenses of MID which land is outside of the boundaries of MID. The lands upon which such water may be beneficially used (hereafter the "MID place of use") are set forth on the map attached hereto and incorporated herein by this reference as Exhibit "A."

NOW, THEREFORE, in consideration of the mutual promises, covenants and agreements hereinafter set forth, it is agreed by and between the parties hereto as follows:

1.0 Recitals. The Recitals hereto are incorporated herein as operable paragraphs to this agreement.

2.0 Water Supply.

2.1 MID agrees, deeming it to be in the best interests of MID, that during each and every year, subject to the conditions hereinafter set forth, it is willing to sell water to CSD, not to exceed five thousand one hundred sixty (5,160) acre feet in any one year, withdrawn by CSD from Lake McClure for domestic water supply for that portion of CSD located within the MID Place of Use as authorized from time to time in the licenses of MID issued by the State Water Resources Control Board (SWRCB). Further, nothing in this agreement shall obligate MID to request any modification of that Place of Use. The water supply available to CSD hereunder shall be a Firm Water Supply.

2.2 Firm Water Supply means that MID will use its best efforts to provide such water at all times in which it is legally and reasonably possible to do so but only from water stored on Lake McClure over which MID has operational discretion and only then to the extent reasonably and beneficially used by CSD. Only water over which MID has operational discretion is available for diversion to consumptive use.

2.3 Water stored in Lake McClure, or flowing by direct diversion into, or through, Lake McClure is not deemed subject to the operational discretion of MID and therefore not available to CSD for diversion under this agreement if such water is necessary to meet state or federal mandates or regulations. Such regulations include, but are not limited to current and future requirements for minimum pool storage, instream flow, fish flows, flows required to support endangered species, water quality or flood control releases, releases for riparian habitat, superior downstream water rights, emergency declarations, or judgments from competent legal authority, wildlife refuge deliveries, other mitigation releases or deliveries. Further, water shall not be deemed for purposes of this agreement, to be subject to MID operational discretion if MID, in the exercise of its sole discretion determines it is necessary to release water for the protection of life or property or for the remediation of lake, Exchequer Project, river, or water conditions which are unresolved, or which are likely to precipitate regulatory or legal action against MID, its water rights or its directors or employees.

2.4 Nothing in this agreement shall prevent MID from contracting to deliver water for domestic use to other parties located in Mariposa and Merced Counties on an equal and pro-rata basis with CSD. In the event other domestic or municipal users are receiving water from MID and a curtailment event occurs which has the effect of requiring municipal or domestic curtailment, all diversions of municipal domestic surface water from MID shall be curtailed pro-rata as the total annual water diversion by the municipal domestic user for the prior calendar year bears to the total of all diversions for domestic municipal use (not including diversions for groundwater storage).

2.5 A curtailment event means that the total surface water available to MID not including ground water, underground storage, in lieu storage or offstream storage or credits is insufficient to meet all consumptive demands. In such an event MID may reduce deliveries to customers by reductions or curtailments in delivery. The order of curtailment shall have the following priorities beginning with the first class of water to curtail and continuing to the last to curtail. Customers in the same class shall curtail pro-rata as set forth above. Each class shall be fully curtailed before the next curtailment. Priority of curtailment is set forth hereafter from the first to curtail to the last:

- 2.5.1. Water transfer not required by regulation or contract
- 2.5.2. Sphere of influence deliveries
- 2.5.3. Domestic/municipal sales used for outdoor landscapes and lawns
- 2.5.4. General Agricultural surface water deliveries, not necessary to prevent death of permanent orchards and vineyards

- 2.5.5. El Nido fifty-percent (50%) curtailment together with other lower priority annexations in order of their MID annexation.
- 2.5.6. All agricultural deliveries
- 2.5.7. All domestic-municipal deliveries
- 2.5.8. No curtailment shall be required of groundwater, underground storage, or water over which MID has no operational discretion, or water stored on behalf of others, if any.

2.6 The provision of water hereunder shall be included in MID operations plans for Lake McClure such that the water level in Lake McClure shall be managed to ensure MID uses its best efforts to retain water available to CSD consistent with its rights under this agreement. The parties agree to meet and confer regarding such operations plans at such times, and on such conditions, as may appear necessary or desirable to the parties. MID shall have no obligation to carry over storage from one water year to another. As used in this paragraph "water year" means October 1 through September 30, annually.

3.0 Location of Diversion.

3.1 CSD shall take delivery of water supplied hereunder at the existing Barrett Cove intake works. In addition, the parties shall, as soon as practicable after the execution hereof, negotiate in good faith an agreement providing for the extension of the existing Lake McClure fixed intake structure at Barrett Cove to 635 feet elevation, and also providing for the construction of an additional low water intake diversion at McClure Point, together with such license agreements, rights of way or other appropriate instrument(s) as may be necessary or desirable to effectuate the extension of the existing Lake McClure intake and the construction of the McClure Point intake. Parties will submit plans and specifications to FERC for approval.

3.2. The McClure Point intake site shall be located generally as shown on Exhibit "B" hereto. The parties further agree to negotiate in good faith an agreement whereby CSD will provide treated water to the MID campground at McClure Point or to such other location(s) as the parties may agree. Both agreements contemplated by paragraph 3.1 and this paragraph 3.2 are subject to the authorization by the SWRCB, of an additional Point Of Diversion, if required.

4.0 Annual Reservations.

4.1 The requirement for an annual deposit against the total "reservation" of water is revoked. In prior agreements a "reservation" or maximum potential build-out of the lands in CSD anticipated the consumptive use of 5,160 acre feet per year. A "standby" or deposit against such ultimate build-out was paid by CSD to MID which is hereby abolished. Because of the implementation of "best management practices" water management for construction and landscaping, the total projected build-out water use in CSD is estimated to be that amount set forth in Paragraph 2.1 above.

5.0 Cap Limit.

5.1 The annual maximum amount of water to be delivered by MID to CSD, the cap "limit," is the amount of water set forth in Paragraph 2.1 above (5,160 acre feet per year). Because this amount is an estimate based upon conservation practices and the number of unconstructed units, it may be necessary to either increase or decrease the "cap limit" in the future. To that end the parties agree that every five (5) years the parties will, if either party so desires, renegotiate the "cap limit" in good faith.

5.2 Notwithstanding paragraph 5.1 the parties do not anticipate a material increase in the cap limit. A refusal by MID to increase the cap limit nor a refusal by CSD to decrease the cap limit does not demonstrate bad faith

6.0 Place of Use.

6.1 It is specifically agreed that CSD shall not serve any MID purchased water to any CSD customer outside the MID Place of Use. Any such customers of CSD shall be served by CSD from its wells or other sources.

6.2 To ensure compliance, CSD shall monthly provide MID with an account containing the following information:

- 6.2.1. Number of customers receiving water from CSD.
- 6.2.2. Total water deliveries by month to CSD customers.
- 6.2.3. Total water deliveries by month to CSD customers located outside the MID Place of Use.
- 6.2.4. Total groundwater production by month for any month in which water was delivered to any CSD customer outside the MID Place of Use.
- 6.2.5. Such further information as the SWRCB, or a court of competent jurisdiction shall require, or as MID shall reasonably require to adequately assure MID that no surface water diversions from Lake McClure are being made outside the Place of Use of MID.

7.0 Best Management Practices.

7.1 The industry standard for Best Management Practices is now in effect in CSD. These policies require construction using low water use fixtures and landscaping. They prevent excessive water use for landscaping, washing of cars, streets and sidewalks, among others. These standards are established by CSD and are modified from time to time. CSD warrants as an integral part of this Agreement, that it will use best management practices at all times and will modify those practices to include new technology or techniques as they are incorporated in the industry standard.

7.2 No relaxation of water use practices shall be undertaken even in “wet” or “above normal” precipitation years without the prior approval of the Board of Directors of MID. The parties acknowledge that Mariposa and Tuolumne Counties, as the case may be, are the authorities responsible for building code and permit inspections to enforce compliance with plumbing, building, and other relevant codes, which codes incorporate the best management practices.

8.0 Diversion.

8.1 CSD shall pay MID only for that water actually diverted from MID facilities. CSD and MID shall agree upon how such diversion shall be measured or if not, they shall be measured by periodically calibrated meters.

8.2 CSD is granted a restricted license during the term of this Agreement to encroach upon the lands and waters of MID as follows:

- 8.2.1. CSD has placed upon the waters of Lake McClure, facilities for the capture and extraction of raw water from the Lake. CSD shall maintain those facilities which contain a float, pump, pipelines and other permanent equipment for such water extraction, in a safe, neat, and orderly manner.
- 8.2.2. No alteration of the current visible structures or systems shall be undertaken without the prior consent of MID, subject to Paragraph 2 above.
- 8.2.3. CSD may have such access across MID lands, without cost or expense to MID, as may be reasonably required to operate, maintain, repair, install and replace, the facilities of CSD which shall be the sole responsibility of CSD. Any new or reconstruction of facilities shall not increase the burden of this license without the written consent of MID.
- 8.2.4. CSD shall conduct its operations upon MID property in a safe and workmanlike manner insuring the safety of its employees and equipment with absolute responsibility for any damages which might arise from its operations with regard to water quality, toxic emissions to the air or soil, or other contamination.
- 8.2.5. To that end CSD shall defend, indemnify and hold MID harmless from the acts of its agents, employees, contractors, sub-contractors or others upon the premises or affecting the premises of MID including but not limited to injury to its employees, contractors, and agents while upon the premises or affecting the premises of MID, or arising from water quality.

8.2.6 Notwithstanding anything contained in this agreement generally and in this paragraph 8 specifically to the contrary, MID shall have sole and absolute discretion on the location of all facilities of CSD on MID property. Unless written authorization to the contrary be first obtained, access by CSD to MID property for the operation and maintenance of CSD facilities shall be undertaken upon existing roads, rights-of-way or as otherwise directed by MID. All CSD operations upon the property of MID shall, except in the case of emergency be conducted in day-light hours of week days to minimize the impacts to MID patrons and staff. Finally all construction operations on MID property shall only be commenced pursuant to the execution by CSD and MID of a construction agreement in the usual form of MID setting forth the terms and obligations of the parties with regard to such construction.

9.0 Insurance.

9.1 CSD shall at all times have in full force and effect a policy of general liability insurance of not less than Two Million Dollars (\$2,000,000.00).

9.2 In addition, a policy of workmens' compensation shall be in full force and affect at all times. The policies, when read together shall in addition to general liability, be sufficient to indemnify MID from any injury to an invitee, employee, agent, or contractor of CSD acting in the scope of their duties or permission upon the premises or affecting the premises of MID.

9.3 Certificates of such insurance shall be provided to MID annually naming MID as an additional insured, or in the absence of such designation, granting MID thirty (30) days notice prior to cancellation. If such insurance is canceled, MID may place such insurance on behalf of CSD and bill CSD for such costs, which CSD shall pay upon invoice.

9.4 During the term of this agreement the minimum coverage set forth in Section 9.1 shall be adjusted every three (3) years by the cumulative increase in the Consumer Price Index published by the U.S. Department of Labor for California.

10.0 Water Quality.

10.1 MID provides no assurance or warranty of water quality. CSD shall extract raw water from Lake McClure as it shall find it, and shall distribute said raw water for irrigation, recreation or other beneficial uses or treat such water to applicable standards as is required by state, local and federal drinking water standards.

10.2 Notwithstanding the above, MID will take no action not reasonably required which has the effect upon the Lake of substantially reducing water quality. However, nothing in this paragraph shall prevent MID from operating the Lake levels in conformance with regulatory authority, irrigation, domestic or municipal and industrial water demand in MID, its sphere of influence, annexations, or for other customers authorized by the SWRCB under its appropriate permits or by the MID Board of Directors under its pre-1914 water rights.

10.3 Additionally, nothing contained herein shall prevent MID from constructing new facilities on the Merced River either upstream or downstream of Lake McClure, or other off stream storage facilities, including diversions from the Merced River or from storage which may impact Lake McClure levels.

10.4 Nothing herein shall require MID to curtail recreational activity on Lake McClure including but not limited to boating, houseboating, skiing, personal water craft, fishing, camping, hiking, or facilities to support the same.

11.0 Price. The price that CSD shall pay to MID for raw water shall be calculated as follows:

11.1 Target Price: The "Target Price" shall be One Hundred Twenty-Five Dollars (\$125.00), per acre foot extracted from any point on Lake McClure.

11.2. Initial Phase In of Target Price: Because the Target Price represents a significant increase in water prices to CSD, the Target Price shall be phased in as follows:

11.2.1 Beginning July 1, 2006 the water price shall be Ninety Dollars (\$90.00) per acre foot.

11.2.2 Beginning July 1, 2007 the water price shall be One Hundred Five Dollars (\$105.00) per acre foot

11.2.3 Beginning July 1 2008 the water price shall be One Hundred Fifteen Dollars (\$115.00) per acre foot.

11.2.4 Beginning July 1, 2009 the water price shall be One Hundred Twenty-Five Dollars (\$125.00) per care foot.

11.2.5 July 1, 2010, cumulative adjustments set forth in paragraph 11.3 from July 1, 2006, forward, by determining the total increase in the CPI set forth above, compounded annually, for the years 2007 through 2010, inclusive, multiplying the result by the \$125 per acre foot price and adding the result to the \$125 price per acre foot. Thereafter, annually the CPI adjustment shall be made effective July 1.

11.3. Increases or Decreases: The Target Price and each annual phase-in portion of the Target Price shall be increased or decreased annually on July 1 for each water year. Water years for this contract shall begin July 1 and extend to June 30, annually. The increase or decrease for any given water year shall be computed using the Consumer Price Index described in paragraph 9.4.

11.4. Payment: MID will bill CSD twice annually. CSD shall report to MID on or before the 15th of each month the information set forth in Paragraph 6.2, for the preceding calendar month. MID will bill CSD for the period July 1 through December 31 (first period) and January 1 through June 30 (second period). The billed amounts shall be due March 1 for the first period, and September 1 for the second. If not paid by said dates, any amount then due shall bear interest at the legal rate for judgments in California, until paid. No interest shall be due for any payment delay caused by the failure of MID to bill for such water, unless the failure to bill arises from the failure by CSD to provide water use information set forth in Paragraph 6.2.

11.5 Notwithstanding anything to the contrary contained herein on or after March 1, 2014 the parties agree to meet, confer, and negotiate in good faith changes to this agreement as may be reasonable and necessary. In the event the Parties cannot agree they shall agree the matter shall be submitted to binding arbitration pursuant to the rules of the American Arbitration Association. The price of the water shall then be fair market value but not greater than the price charged to other domestic-municipal customers of MID.

12.0 Term.

12.1 This Agreement shall expire not earlier than June 30, 2014, but shall continue so long thereafter as MID or its successor(s) shall have a license from the Federal Energy Regulatory Commission for the production of power on the Merced River and consumptive water right licenses from the SWRCB, unless terminated earlier by mutual agreement of the parties, or by regulatory, legislative, or judicial action of the State of California or the United States Government or any subdivision thereof.

12.2 Notwithstanding paragraph 11.1, this agreement may be terminated by either party as a result of a material breach by the other party

13.0 Annexation. CSD may annex lands to its service area as may otherwise be appropriate provided CSD establishes in writing with reasonable certainty that such new lands, if not then within the MID Place of Use, will be served with groundwater or some source other than under this Agreement as set forth in Paragraph 6.2.

14.0 Miscellaneous.

14.1. Inspection. MID shall have the right, during reasonable times, to inspect the books, records, facilities, and equipment of CSD as it relates to compliance with this Agreement. CSD has heretofore, and will continue, to provide water measuring devices for both raw water and treated water measurement at no cost to MID.

14.2 Remedies. Either party shall have all remedies in equity or at law as may arise from a breach of this Agreement, except that no remedy may be granted either party which would contravene an order of the SWRCB or the Federal Energy Regulatory Commission except by a court with jurisdiction competent to do so.

14.3 Waiver. No claim or right arising out of a breach of this Agreement can be discharged in whole or in part by a waiver or renunciation of the claim or right unless the waiver or renunciation is supported by consideration and is in writing signed by the aggrieved party.

14.4 Interpretation and Parol Evidence. This writing is intended by the parties as a final expression of their agreement concerning the matters contained herein, and is also intended as a complete and exclusive statement of the terms of their agreement. No course of prior dealings between the parties shall be relevant to supplement or explain any term used in this contract. Acceptance or acquiescence in a course of performance rendered under this contract shall not be relevant to determine the meaning of this Contract even though the accepting or acquiescing party has knowledge of the nature of the performance and opportunity for objection.

14.5. Authority of Agents. No agent, employee, or representative of either party has any authority to bind either party to any affirmation, representation, or warranty concerning the matters under this contract and unless an affirmation, representation, or warranty made by an agent, employee, or representative is specifically included within this written Agreement, it has not constituted a part of the basis of this bargain and shall not in any way be enforceable, without the prior specific ratification of the parties' Board of Directors.

14.6. Modifications. This contract can be modified or rescinded only by a writing signed by both of the parties or their agents as authorized by the Boards of Directors of each party.

14.7. Assignment or Delegation. No right or interest in this contract may be assigned by either party without the written permission of the other party, and no delegation of any obligation owed, or of the performance of any obligation, by either party, may be made without the written permission of the other party. Any attempted assignment or delegation shall be wholly void and totally ineffective for all purposes unless made in conformity with this paragraph.


14.8. Severability. The provisions of this Agreement shall be deemed to be independent and several in that the invalidity or partial invalidity or unenforceability of any one provision or portion thereof shall not effect the validity or the enforceability of any other provision hereof, and this Agreement shall be construed as if such unenforceable provision had not been contained herein. As used herein, the term "unenforceable" is used in its broadest and most comprehensive sense and includes the concepts void and voidable.

IN WITNESS WHEREOF, we have fixed our hands on the date first above written at Merced, California.

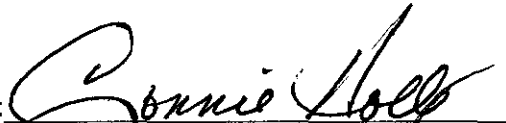
MERCED IRRIGATION DISTRICT

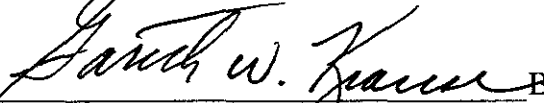
LAKE DON PEDRO COMMUNITY
SERVICES DISTRICT


By: 
TIM PELLISSIER, President

By: 
SALLY PUNTE, President

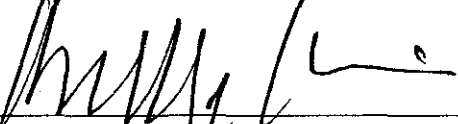
By: 
JACK F. HOOPER, Secretary

By: 
CONNIE HOLLEY, Board Secretary

By: 
GARITH W. KRAUSE, General Manager

By: 
ROBERT KENT, General Manager

APPROVED AS TO FORM:


KENNETH M. ROBBINS, General Counsel

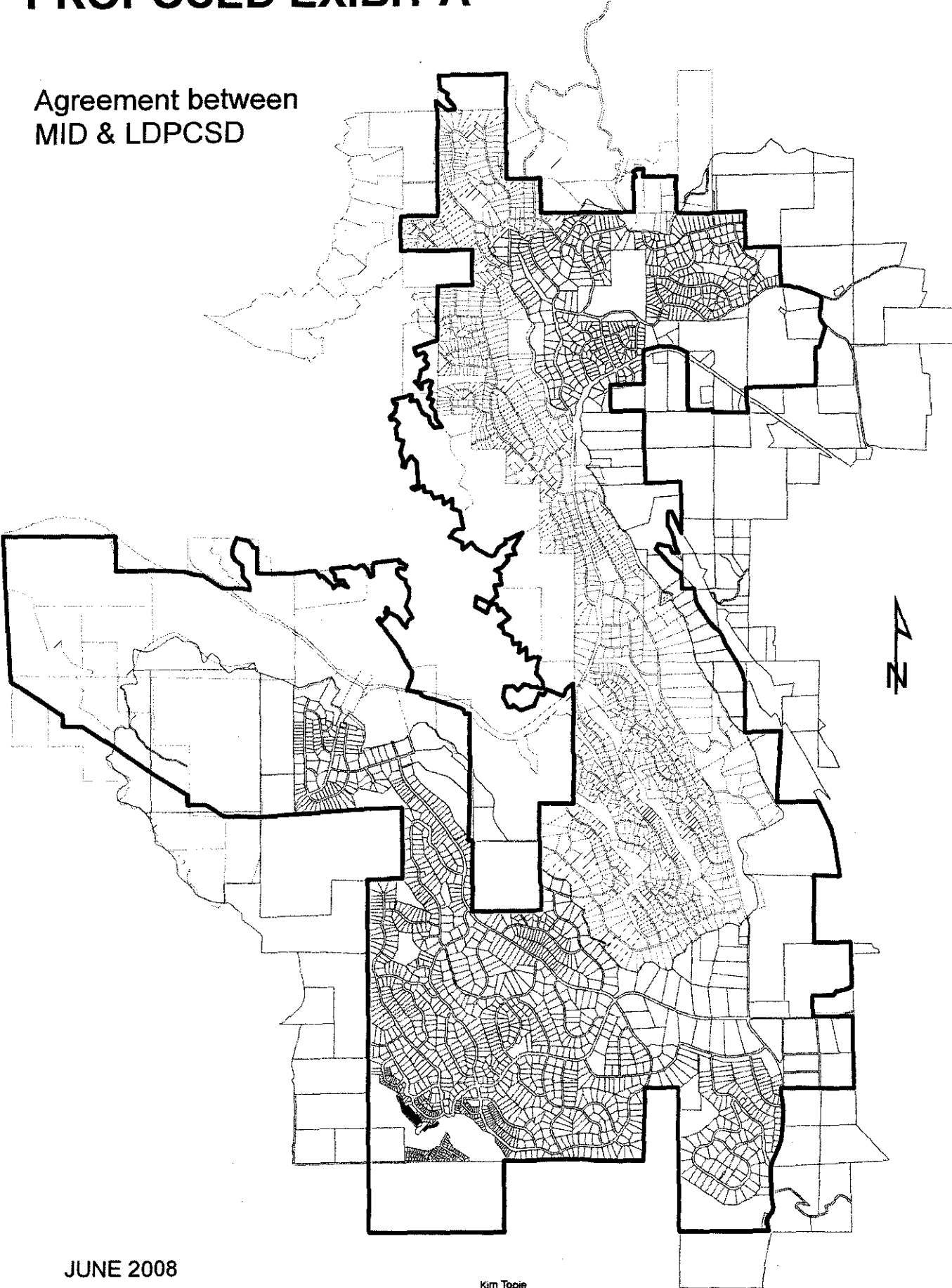
APPROVED AS TO FORM:


RAYMOND L. CARLSON, General Counsel

Z:\My Documents\Word\Garith\LDPCSD 031708.doc

PROPOSED EXHIBIT A

Agreement between
MID & LDPCSD



JUNE 2008

Kim Topie
GIS Tech.

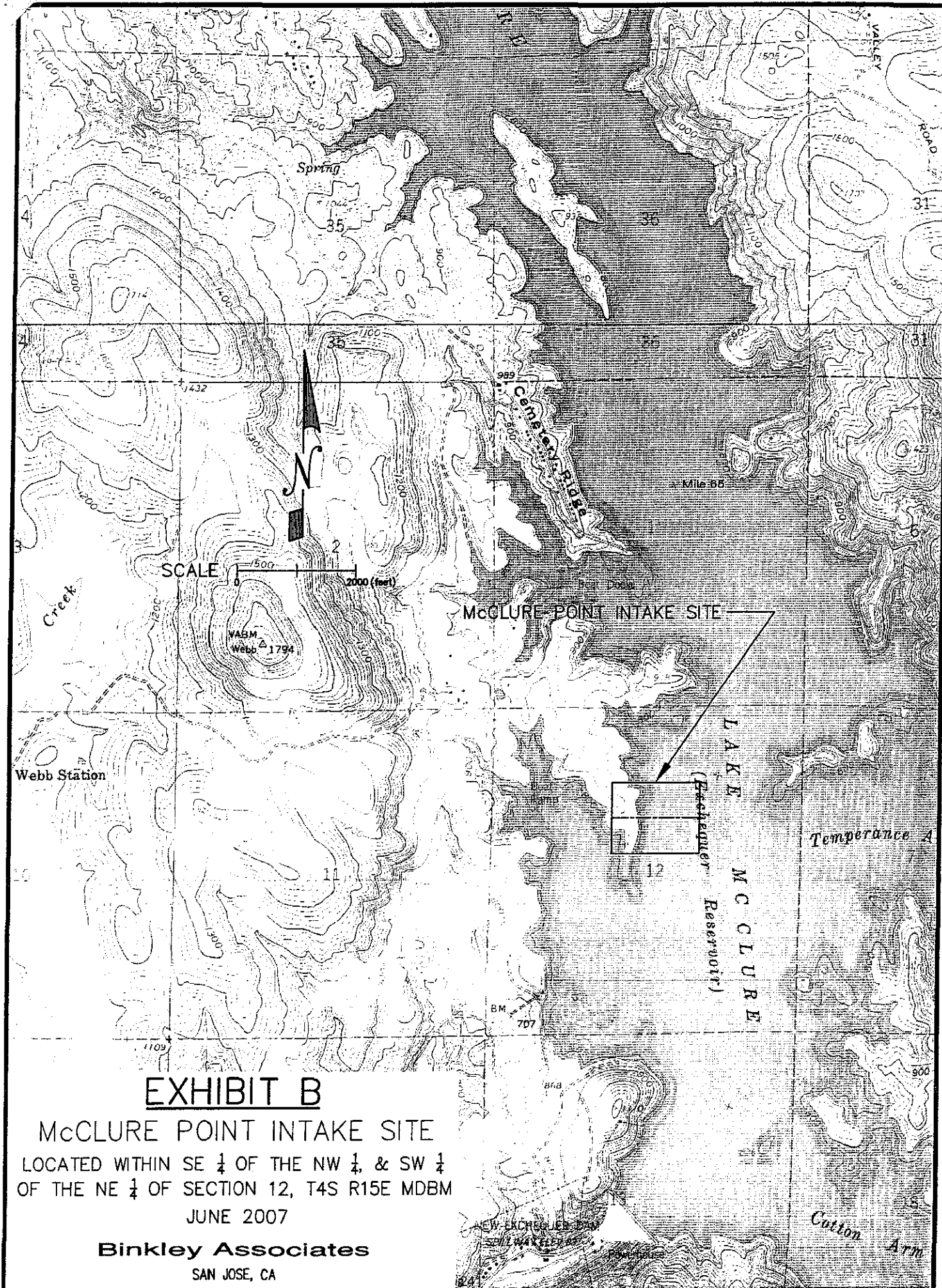


EXHIBIT B

McCLURE POINT INTAKE SITE

LOCATED WITHIN SE $\frac{1}{4}$ OF THE NW $\frac{1}{4}$, & SW $\frac{1}{4}$
OF THE NE $\frac{1}{4}$ OF SECTION 12, T4S R15E MDBM

JUNE 2007

Binkley Associates

SAN JOSE, CA