



SAN ANTONIO WATER COMPANY

BOARD OF DIRECTORS MEETING

Tuesday, November 19, 2024 at
5:00 p.m.

In the Upland City Hall Council Chambers 460 N.
Euclid Avenue, Upland, CA 91786
And Virtual/Online or Teleconference

Members of the public may join the meeting by computer, tablet or smartphone.

<https://meet.goto.com/146726317>

You can also dial in using your phone.

Access Code: 146-726-317

United States: [+1 \(872\) 240-3311](tel:+18722403311)

Call to Order

Salute to the Flag

1. Recognitions and Presentations:

2. Additions-Deletions to the Agenda:

3. Shareholder-Public Testimony:

This is the time for any shareholder or member of the public to address the board members on any topic under the jurisdiction of the Company, which is on or not on the agenda. Please note, pursuant to the Brown Act the board is prohibited from taking action on items not listed on the agenda. For any testimony, speakers are requested to keep their comments to no more than four (4) minutes, including the use of any visual aids, and to do so in a focused and orderly manner. Anyone wishing to speak is requested to voluntarily fill out and submit a speaker's form to the manager prior to speaking.

4. Consent Calendar Items:

All items listed hereunder are considered to be routine and there will be no separate discussion of these items unless members of the board request specific items to be removed from the consent calendar for separate action. All items listed or remaining will be voted upon in a single action.

A. Approval of Board Meeting Minutes

Regular Meeting Minutes of October 15, 2024

B. Planning, Resources, and Operations Committee (PROC) Meeting Minutes

Approve meeting minutes of August 27, 2024.

C. Administration and Finance Committee (AFC) Meeting Minutes

No meeting minutes to approve.

D. AdHoc Committee for Office Feasibility Study

No meeting minutes to approve.

E. Financial Statement

Income Statement and Balance Sheet for September 30, 2024.

F. Investment Activity Report

Monthly Report of Investments Activity.

G. Water Production and Consumption

Monthly water production and consumption figures.

H. Prominent Issues Update

Status summaries on certain on-going active issues.

I. Projects and Operations Update

Status summaries on projects and operations matters.

J. Groundwater Level Patterns [Quarterly in January, April, July, and October]

Tracking patterns of groundwater elevations relative to ground surface.

K. Conservation Program Update [Quarterly in January, April, July, and October]

Update on SAWCo's existing water conservation programs.

L. Correspondence of Interest

5. Board Committee – Delegate Report:

A. PVPA Representative Report

- Verbal report by Director Parker.
- B. Six Basins Representative Report
Verbal report by Mr. Lee.
- C. Chino Basin Representative Report
Verbal report by Mr. Lee.
- D. Cucamonga Basin Representative Report
Verbal report by Mr. Lee.
- E. Administration and Finance Committee (AFC) Chairman's Report
No meeting to report.
- F. Planning, Resources, and Operations Committee (PROC) Chairman's Report
Verbal report by Director Elliott.
- G. Office & Yard Feasibility Study Ad Hoc Committee
No meeting to report.

6. 139 N. Euclid Homeless Issue

Discussion and possible action regarding proposal to fence office property.

7. Annual Review of Employee Health and Welfare Benefits

Review and Possibly Approve Health and Welfare Benefits Package for 2025

8. Workplace Violence Prevention Plan

Review and Possibly Approve proposed Workplace Violence Prevention Plan

9. Award of Construction Contract for Well 31 Pipeline

Review and Possibly Authorize Staff to Execute a Construction Contract for the Well 31 Pipeline Replacement

10. Closed Session:

A. CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION [Government Code Section 54956.9(d)(1)] Name of Case: San Antonio Water Company v. Foothill Irrigation Company, et al., San Bernardino Superior Court Case No. 92645

B. CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION (Initiation of Litigation) [Gov't Code § 54956.9(d)(4)]: two potential matters

C. CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION [Gov't Code § 54956.9(d)(1)] Name of Case: Aqueous Film-Forming Foams Product Liability Litigation, Master Docket No. 2:18-mn-2873-RMG

D. EMPLOYEE PERFORMANCE EVALUATION [Government Code § 54957]: General Manager

11. Open Session:

Report out from Closed Session.

12. Director's Comments and Future Agenda Items

Adjournment

The next regular Board Meeting will be held on Tuesday December 17, 2024 at 5:00 p.m.

NOTE: All agenda report items and back-up materials are available for review and/or acquisition from the Company Office (139 N. Euclid Avenue, Upland, CA.) during regular office hours, Monday through Thursday [7:30a – 11:30a and 12:30p – 5:00p] and on the Company's website www.sawaterco.com. The agenda is also available for review and copying at the Upland Public Library located at 450 N. Euclid Avenue.

POSTING STATEMENT: On November 14, 2024, a true and correct copy of this agenda was posted at the entry of the Water Company's office (139 N. Euclid Avenue), on the City of Upland public bulletin board (460 N. Euclid Ave.), Public Library (450 N. Euclid Ave.), and on the Water Company's website.

SAN ANTONIO WATER COMPANY
MINUTES OF THE SAN ANTONIO WATER COMPANY
Tuesday, October 15, 2024

An open meeting of the Board of Directors of the San Antonio Water Company (SAWCo) was called to order at 5:00 p.m. on the above date at the City of Upland Council Chambers, 460 N. Euclid Ave., Upland, California. Directors present were Rudy Zuniga, Will Elliott, Bill Velto, Kati Parker, Bob Cable, and Becky Miller. Virtually in attendance was Director Bob Bowcock. Also in attendance were SAWCo's General Manager Brian Lee, General Legal Counsel Derek Hoffman, and Senior Administrative Specialist Tiffany Dickinson. President Zuniga presided.

Director Velto led all in attendance in the flag salute.

1. Recognitions and Presentations: Mr. Lee confirmed with Ms. Dickinson Director Bowcock was online in attendance.
2. Additions-Deletions to the Agenda: Mr. Lee stated there is an addition to the agenda adding Director Bowcock was called away for a business emergency out of the state and is therefore participating remotely. The Board of Directors will have to make a motion to approve Director Bowcock's participation virtually. Mr. Hoffman added this situation falls under the "just cause" exception of the Ralph M. Brown Act.

Director Elliott moved and Director Velto seconded to approve the "just cause" exception in allowing Director Bowcock to participate remotely. Motion carried unanimously.

3. Shareholder-Public Testimony: None.
4. Consent Calendar Items:
 - A. Approval of Board Meeting Minutes
Regular Meeting Minutes of September 17, 2024.
 - B. Planning, Resources and Operations Committee (PROC) Meeting Minutes
No meeting minutes to approve.
 - C. Administration and Finance Committee (AFC) Meeting Minutes
Approve meeting minutes of July 23, 2024.
 - D. AdHoc Committee for Office Feasibility Study
No meeting minutes to approve.
 - E. Financial Statement
Income Statement and Balance Sheet for August 31, 2024.
 - F. Investment Activity Report
Monthly Report of Investments Activity.
 - G. Water Production and Consumption
Monthly water production and consumption figures.
 - H. Prominent Issues Update
Status summaries on certain on-going active issues.
 - I. Projects and Operations Update
Status summaries on projects and operations matters.
 - J. Groundwater Level Patterns [Quarterly in January, April, July, and October]
Tracking patterns of groundwater elevations relative to ground surface.
 - K. Conservation Program Update [Quarterly in January, April, July, and October]
Update on SAWCo's existing water conservation programs.
 - L. Disposal of Records
Recommend approval of record disposal based on adopted retention schedule.
 - M. Correspondence of Interest

Director Velto moved and Director Parker seconded to approve the Consent Calendar as presented. Motion carried unanimously.

5. Board Committee – Delegate Report:
 - A. **Pomona Valley Protective Association (PVPA) Representative's Report** – Director Parker stated there was nothing significant to report from the previous meeting held.
 - B. **Six Basins Representative Report** – Mr. Lee stated there is no update to report.
 - C. **Chino Basin Representative Report** – Mr. Lee stated he attended an assessment package workshop that morning with nothing further to update.
 - D. **Cucamonga Basin Representative Report** – Mr. Lee stated there is no update to report.
 - E. **Administration and Finance Committee (AFC) Chairman's Report** – Mr. Lee reported all the AFC items are currently on the agenda for board consideration.

F. **Planning, Resources, and Operations Committee (PROC) Chairman’s Report** – No meeting to report.

G. **Office Feasibility Study Ad Hoc Committee** – No meeting to report.

6. Employee Year End Gift:

With no discussion from the board on this item, Director Velto moved and Director Cable seconded to approve the Board’s year end gift to employees. Motion carried unanimously.

7. Review of 2025 SAWCO Major Activities Calendar: Mr. Lee stated this is a yearly confirmation of company calendar with highlighted potential dates for board meetings, committee meetings and holidays.

Director Parker moved and Director Miller seconded to approve the 2025 SAWCO major activities calendar as presented. Motion carried unanimously.

8. Proposal to Conduct 2025 Rate Study: Mr. Lee stated he has nothing further to add than what is already in the agenda packet and if there is no further discussion or questions, staff is looking for approval to move forward with the proposal for the rate study.

Director Cable added at the AFC meeting the discussion was to not exceed cost of \$33,975.00.

Director Cable moved and Director Miller seconded to approve to authorize the GM to execute a contract for a rate study to not exceed \$33,975.00. Motion carried unanimously.

9. Annual Meeting of Pomona Valley Protective Association (PVPA): Mr. Lee stated this is a yearly item and PVPA typically sends out proxy documentation after the October board meeting and in the past the board has appointed Director Parker.

Director Elliott moved and Director Cable seconded to approve appointing Director Parker as proxy to the annual PVPA meeting. Motion carried unanimously.

10. Closed Session:

A. CONFERENCE WITH LEGAL COUNSEL— EXISTING LITIGATION [Government Code Section 54956.9(d)(1)] Name of Case: Victor Asemota et al. v. City of Claremont, et al., Los Angeles County Superior Court Case No. 24STCV08598

B. EMPLOYEE PERFORMANCE EVALUATION [Government Code § 54957]: General Manager

C. CONFERENCE WITH LABOR NEGOTIATOR [Government Code § 54957.6]

Designated Representative: General Counsel Derek Hoffman

Unrepresented Employee: General Manager

Mr. Hoffman stated prior to going into closed session, regarding Item 10C, the Board must identify the designated negotiator, if other than himself as listed on the agenda.

Director Parker moved and Director Miller seconded to nominate Mr. Hoffman as the designated negotiator for Item 10C.

11. Open Session:

A. Report out from Closed Session.

B. General Manager Setting of Annual Compensation.

The Board went into closed session at 5:12 PM. Upon return from the closed session at 6:30 PM, Mr. Hoffman stated the Board met in closed session on the items listed on the agenda and there is no reportable action on items 10A and 10B. For Item 10C, the Board gave direction to the designated negotiator and discussions occurred and the Board is open for further discussion and any decisions to be made.

Director Zuniga reported the Board met in closed session on the setting of annual compensation of the general manager and the Board came to an agreement of a 4.5% increase in compensation which comes out to \$275,880.00 per year.

12. Director's Comments and Future Agenda Items: None.

Adjournment:

With no further business to discuss the meeting was adjourned at 6:32 PM.

Assistant Secretary
Brian Lee

MINUTES OF THE SAN ANTONIO WATER COMPANY
PLANNING, RESOURCES, and OPERATIONS COMMITTEE

August 27, 2024

An open meeting of the Planning, Resources, and Operations Committee (PROC) of the San Antonio Water Company (SAWCo) was called to order at 3:31 p.m. on the above date. Committee members present were Kati Parker and Rudy Zuniga. Also in attendance were SAWCo's legal counsel Derek Hoffman of Fennemore, General Manager Brian Lee and Senior Administrative Specialist Tiffany Dickinson. Director Parker presided.

1. Recognitions and Presentations – None.
2. Additions-Deletions to the Agenda – None.
3. Public Comments – None.
4. Approval of Committee Meeting Minutes:
 - A. **Regular Committee Minutes of February 27, 2024** – Director Zuniga moved, and Director Parker seconded to approve the meeting minutes of February 27, 2024, as presented. Motion carried unanimously.
5. Planning and Operational Issues:
6. Planning and Operational Updates -
 - A. **Project Status Report/Project List** – Mr. Lee reported the Well 31 pipeline at the Upland Hills Golf Course, nearing dig phase, plans and specs are completed, and staff is waiting for final approval before released to bid.

Mr. Lee stated staff is working on updating the Forebay outfall plans and specs. He added we are down to one minor mechanical issue which is how to break through 300 psi of head without causing too much vibration and noise.

Mr. Lee added the new campus and yard facility on 20th street, CEQA consultants are working on CEQA documents hoping to be completed by the end of the year. Staff will approach the City of Upland with zone changes in hopes to move forward.

He concluded stating from an operational standpoint, staff is hiring CP Construction to go into the intake at the canyon to clean out rock debris.
7. Basin Issues and Updates
 - **San Antonio Canyon Watershed** – Mr. Lee stated the Watershed Committee has their Annual Clean Up Day scheduled for Saturday, October 12, 2024, in which a flyer will be presented to the Board at the upcoming September Board meeting.
 - **Chino Basin** – Mr. Lee stated they are trying to get lawsuits behind them and expecting a decision by the judge regarding the Ontario and Monte Vista vs. others lawsuit on who pays the legal fees. The AP Pool majority has said Ontario and Monte Vista owe these fees they have spent defending this case, and in turn Ontario and Monte Vista have responded, Chino Basin AP joined the case willingly and should pay said legal fees.
 - **Six Basins** – No report given.
 - **Cucamonga Basin** – No report given.
8. Closed session: None.
9. Committee's Comments and Future Agenda Items: None.

Adjournment: –The meeting adjourned at 3:35 p.m.

Assistant Secretary
Brian Lee



San Antonio Water Company, CA

Income Statement

Group Summary

For Fiscal: 2024 Period Ending: 09/30/2024

IncomeStatement	Original Total Budget	Current Total Budget	MTD Activity	YTD Activity	Budget Remaining
Category: 4 - Income					
SubCategory: 40 - Shareholder Revenue					
1185 - Water Sales - Domestic	730,000.00	730,000.00	-200.31	388,281.79	341,718.21
1230 - Water Fixed Charges - Domestic	261,000.00	261,000.00	44.33	176,317.39	84,682.61
1245 - Water Sales - Municipal	3,100,000.00	3,100,000.00	299,402.70	2,272,102.80	827,897.20
1268 - Water Fixed Charges - Municipal	554,000.00	554,000.00	46,170.00	415,530.00	138,470.00
1274 - Water Sales - Misc.	260,000.00	260,000.00	30,822.93	192,516.83	67,483.17
1288 - Water Fixed Charges - Misc.	46,000.00	46,000.00	3,848.00	34,760.00	11,240.00
1295 - Water Fixed Charges - Inactive Shareholders	52,000.00	52,000.00	0.00	34,261.01	17,738.99
1309 - Shareholder Fees	8,800.00	8,800.00	5,369.14	13,926.58	-5,126.58
1405 - Capital Facility Connection Fee	0.00	0.00	14,855.74	20,546.74	-20,546.74
SubCategory: 40 - Shareholder Revenue Total:	5,011,800.00	5,011,800.00	400,312.53	3,548,243.14	1,463,556.86
SubCategory: 42 - Non-Shareholder Revenue					
1725 - Misc. Income	2,000.00	2,000.00	0.00	11,528.59	-9,528.59
1750 - Service/Litigation Agreements	0.00	0.00	223.29	1,795.44	-1,795.44
1753 - Ground Lease Income	70,000.00	70,000.00	5,070.54	46,834.86	23,165.14
1755 - Interest Earned	20,000.00	20,000.00	0.00	93,627.25	-73,627.25
SubCategory: 42 - Non-Shareholder Revenue Total:	92,000.00	92,000.00	5,293.83	153,786.14	-61,786.14
Category: 4 - Income Total:	5,103,800.00	5,103,800.00	405,606.36	3,702,029.28	1,401,770.72
Category: 5 - O & M Expense					
SubCategory: 50 - Operating Facilities					
2175 - Field Labor	480,000.00	480,000.00	36,651.80	319,914.69	160,085.31
2235 - Repairs to Facilities and Equipment	350,000.00	350,000.00	23,393.48	219,480.17	130,519.83
2265 - Power-Gas & Electric (utilities)	900,000.00	900,000.00	136,744.03	691,326.84	208,673.16
SubCategory: 50 - Operating Facilities Total:	1,730,000.00	1,730,000.00	196,789.31	1,230,721.70	499,278.30
SubCategory: 51 - Operating Activities					
2475 - Customer Service	10,000.00	10,000.00	2,129.27	8,777.03	1,222.97
2498 - Conservation	26,000.00	26,000.00	534.09	11,128.06	14,871.94
SubCategory: 51 - Operating Activities Total:	36,000.00	36,000.00	2,663.36	19,905.09	16,094.91
SubCategory: 52 - Other Operating Expense					
2210 - O & M - All Other	3,500.00	3,500.00	0.00	3,064.53	435.47
2295 - Supplies (Inventory & Tools Expense)	10,000.00	10,000.00	654.03	16,507.68	-6,507.68
2565 - Depreciation/Amortization	1,100,000.00	1,100,000.00	94,707.80	852,775.07	247,224.93
2715 - Property Taxes	240,000.00	240,000.00	0.00	127,296.41	112,703.59
2805 - Water Resource Mgmt.	143,000.00	143,000.00	43.76	209,438.74	-66,438.74
SubCategory: 52 - Other Operating Expense Total:	1,496,500.00	1,496,500.00	95,405.59	1,209,082.43	287,417.57
Category: 5 - O & M Expense Total:	3,262,500.00	3,262,500.00	294,858.26	2,459,709.22	802,790.78
Category: 6 - G & A Expense					
SubCategory: 60 - Personnel					
2115 - Administrative Labor	540,000.00	540,000.00	45,051.00	412,671.65	127,328.35
2325 - Payroll Taxes	80,000.00	80,000.00	4,786.60	67,961.15	12,038.85
2355 - Worker's Compensation Insurance	18,000.00	18,000.00	1,857.00	10,948.80	7,051.20
2385 - Benefit Pay (Vac., sick, etc.)	195,000.00	195,000.00	15,647.46	179,356.65	15,643.35
2415 - Benefit Insurance (Pension,Life,Medical,Vision etc)	250,000.00	250,000.00	21,906.40	198,953.05	51,046.95
2430 - Benefit Administrative Services	2,000.00	2,000.00	0.00	100.00	1,900.00
SubCategory: 60 - Personnel Total:	1,085,000.00	1,085,000.00	89,248.46	869,991.30	215,008.70
SubCategory: 61 - Other					
2445 - Office/IT Support	60,000.00	60,000.00	6,649.21	77,455.49	-17,455.49
2505 - Directors Fees & Expense	32,000.00	32,000.00	4,374.73	29,454.29	2,545.71
2535 - Liability Insurance	60,000.00	60,000.00	0.00	79,417.69	-19,417.69
2595 - Communication	43,000.00	43,000.00	3,708.03	29,989.20	13,010.80

Income Statement

For Fiscal: 2024 Period Ending: 09/30/2024

IncomeStatement	Original Total Budget	Current Total Budget	MTD Activity	YTD Activity	Budget Remaining
2625 - Dues & Publications	3,500.00	3,500.00	945.00	10,403.00	-6,903.00
2655 - Outside Services	20,000.00	20,000.00	0.00	16,161.05	3,838.95
2745 - Income Tax Expense	12,500.00	12,500.00	0.00	19,200.00	-6,700.00
2775 - Accounting	20,000.00	20,000.00	0.00	21,888.77	-1,888.77
2776 - Legal	200,000.00	200,000.00	25,026.96	198,441.00	1,559.00
2790 - Human Resources Expense	0.00	0.00	1,269.23	1,359.79	-1,359.79
2865 - All other	30,000.00	30,000.00	1,595.08	5,311.10	24,688.90
SubCategory: 61 - Other Total:	481,000.00	481,000.00	43,568.24	489,081.38	-8,081.38
Category: 6 - G & A Expense Total:	1,566,000.00	1,566,000.00	132,816.70	1,359,072.68	206,927.32
Total Surplus (Deficit):	275,300.00	275,300.00	-22,068.60	-116,752.62	

Income Statement

For Fiscal: 2024 Period Ending: 09/30/2024

Fund Summary

Fund	Original Total Budget	Current Total Budget	MTD Activity	YTD Activity	Budget Remaining
10 - 10	275,300.00	275,300.00	-22,068.60	-116,752.62	392,052.62
Total Surplus (Deficit):	275,300.00	275,300.00	-22,068.60	-116,752.62	



San Antonio Water Company, CA

Balance Sheet

Account Summary

As Of 09/30/2024

Account	Name	Balance
Fund: 10 - 10		
Assets		
BalSubCategory: 10 - Cash		
10-00-00-10100-00000	Petty Cash	250.00
10-00-00-10201-00000	Checking Account-8431	1,722,105.08
10-00-00-10415-00000	D&O Checking Account	627,172.19
10-00-00-10438-00000	Depre/Obsolescene Res (LAIF)	2,688,010.47
	Total BalSubCategory 10 - Cash:	5,037,537.74
BalSubCategory: 11 - Accounts Receivable		
10-00-00-11100-00000	Accounts Receivable-Domestic	41,279.21
10-00-00-11200-00000	Accounts Receivable-Municipal	345,572.70
10-00-00-11250-00000	Accounts Receivable-Misc.	57,654.62
10-00-00-11260-00000	Accounts Receivable - Dormant	2,144.00
10-00-00-11275-00000	Contra Accounts Receivable - Unapplied C	-24,993.01
10-00-00-11300-00000	Accounts Receivable-Other	219,607.70
	Total BalSubCategory 11 - Accounts Receivable:	641,265.22
BalSubCategory: 12 - Inventory		
10-00-00-12100-00000	Inventories-Materials & Supply	151,159.05
	Total BalSubCategory 12 - Inventory:	151,159.05
BalSubCategory: 13 - Prepaid		
10-00-00-13100-00000	Prepaid Insurance	8,868.75
10-00-00-13105-00000	PREPAID POSTAGE	369.00
	Total BalSubCategory 13 - Prepaid:	9,237.75
BalSubCategory: 14 - Investments		
10-00-00-14150-00000	P.V.P.A. Investment	1.00
10-00-00-14151-00000	457B Plan Investment	108,989.24
	Total BalSubCategory 14 - Investments:	108,990.24
BalSubCategory: 15 - Property, Plant, & Equipment		
10-00-00-15100-00000	Land & Water Rights	920,161.26
10-00-00-15110-00000	Work in Progress	301,620.16
10-00-00-15110-1507J	Work in Progress "Proj J"	222,837.92
10-00-00-15110-1602U	Work in Progress	2,224,783.83
10-00-00-15110-20070	Work in progress	1,332,515.61
10-00-00-15110-2201	Work in Progress	74,866.13
10-00-00-15110-2203	Work in Progress-Proj 2203	46,202.55
10-00-00-15110-23030	Work in Progress	1,614,870.00
10-00-00-15150-00000	Buildings & Site Improvements	1,827,589.96
10-00-00-15200-00000	Wells-Shafts, Bldgs, & Equip	5,320,782.90
10-00-00-15250-00000	Boosters-Bldgs & Equip	2,629,884.62
10-00-00-15300-00000	Reservoirs	3,078,102.33
10-00-00-15350-00000	Tunnels, Forebay, & Ponds	1,592,905.29
10-00-00-15400-00000	Spreading Works-Cuamonga Wash	54,859.53
10-00-00-15410-00000	Spreading Works-SanAntonio Wsh	50,235.18
10-00-00-15450-00000	Pipelines	19,727,407.10
10-00-00-15500-00000	Autos & Equipment	693,786.89
10-00-00-15550-00000	Tools	109,906.68
10-00-00-15600-00000	Telemetry System	704,419.66
10-00-00-15650-00000	Office Equipment	510,373.67
10-00-00-15990-00000	Accumulated Depreciation	-17,121,264.57
	Total BalSubCategory 15 - Property, Plant, & Equipment:	25,916,846.70
BalSubCategory: 16 - Other Assets		
10-00-00-16100-00000	Documents & Studies	952,379.74
10-00-00-16105-2204	Work in Progress (Docs)	10,398.75

Balance Sheet

As Of 09/30/2024

Account	Name	Balance
10-00-00-16990-00000	Accumulated Amortization	-654,498.99
	Total BalSubCategory 16 - Other Assets:	308,279.50
	Total Assets:	32,173,316.20
		<u>32,173,316.20</u>
Liability		
BalSubCategory: 20 - Short-term less than 1 year		
10-00-00-20100-00000	Trade Accounts Payable	158,020.41
10-00-00-20115-00000	D&O Trade Accounts Payable	1,782.50
10-00-00-20261-00000	Section 125 - Dental	0.88
10-00-00-20262-00000	Section 125 - Vision	0.80
10-00-00-20263-00000	Section 125 - Medical	0.41
10-00-00-20600-00000	Water Hydrant Meter Deposit	1,700.00
10-00-GN-20820-00000	Accrued Vacation Payable	20,404.60
10-00-OP-20820-00000	Accrued Vacation Payable	24,818.57
	Total BalSubCategory 20 - Short-term less than 1 year:	206,728.17
BalSubCategory: 21 - Long-term more than 1 year		
10-00-00-20152-00000	457B Deferred Comp Liability	108,989.24
10-00-00-21500-00000	Unclaimed Credits	124,893.25
	Total BalSubCategory 21 - Long-term more than 1 year:	233,882.49
	Total Liability:	440,610.66
Equity		
BalSubCategory: 30 - Stockholder equity		
10-00-00-30200-00000	Contributed Capital - Ext. Fee	447,258.02
10-00-00-30210-00000	Contr. Property, Plant & Equip	2,432,256.77
10-00-00-30300-00000	Capital Account	1,500,000.00
10-00-00-30310-00000	Unissued Capital Stock	-861,100.00
10-00-00-30400-00000	Retained Earnings-Brd Designated	3,400,452.40
10-00-00-30410-00000	Retained Earnings-Unrestricted	24,930,590.97
	Total BalSubCategory 30 - Stockholder equity:	31,849,458.16
	Total Beginning Equity:	31,849,458.16
Total Revenue		3,702,029.28
Total Expense		3,818,781.90
Revenues Over/Under Expenses		-116,752.62
	Total Equity and Current Surplus (Deficit):	31,732,705.54
	Total Liabilities, Equity and Current Surplus (Deficit):	<u>32,173,316.20</u>

Monthly Investment Activity Summary - Compiled from Banking Statements for Correlation with Monthly Financials

						Reserves		
	Institution	Type of Investment	Date of Maturity	Rate of Interest	Account Balance as of 9/30/2024	Operating target: \$930k-\$1.85M	Depreciation & Obsolescence target: \$1.3M-\$5.2M	
							Capital Investment & Depreciation	Modernization
Undesignated	Citizens Business Bank (CBB)	Checking	N/A	None	\$ 1,722,358.08	\$1,722,358.08		
Designated	Citizens Business Bank (CBB)	Checking	N/A	None	\$ 627,172.19		\$ 627,172.19	
	Local Agency Investment Fund	LAIF	N/A	4.710%	\$ 2,688,010.47		\$ 904,848.27	\$1,783,162.20
					\$ 5,037,540.74	\$1,722,358.08	\$ 1,532,020.46	\$1,783,162.20

2024 Production

CHINO BASIN	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR
Yearly Production Rights = 1232	0.22%	0.28%	0.28%	0.29%	0.31%	8.46%	12.39%	24.62%	36.48%	48.21%	60.19%	72.08%	
Well #12 - inactive	-	-	-	-	-	-	-	-	-	-	-	-	-
Well #15 - Domestic	0.05	-	-	0.04	-	-	0.11	0.15	-	0.18	-	-	0.53
Well #16 - Domestic	0.19	0.83	-	0.08	0.26	100.34	152.54	150.55	146.08	144.35	-	-	695.21
Well#18 - inactive	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal	0.23	0.83	-	0.12	0.26	100.34	152.65	150.70	146.08	144.53	-	-	695.74
CUCAMONGA BASIN	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR
Yearly Production Rights = 5637 (1137 10-yr Average Spread)	2.92%	6.01%	8.71%	12.02%	16.98%	25.39%	37.76%	50.71%	59.56%	68.46%	77.40%	86.38%	
Well #2	108.71	106.00	105.14	112.23	114.98	110.98	109.93	106.56	104.73	106.75	-	-	1,086.01
Well #3	0.24	-	-	0.19	-	-	0.27	0.22	-	0.21	-	-	1.13
Well#19 - inactive	-	-	-	-	-	-	-	-	-	-	-	-	-
Well #22	4.21	1.30	6.17	17.16	33.10	55.70	70.04	68.00	44.87	43.67	-	-	344.22
Well #24	0.61	-	-	0.46	-	76.81	354.80	357.29	349.36	351.23	-	-	1,490.57
Well #31	0.48	-	-	-	-	-	-	-	-	-	-	-	0.48
Well #32 - Domestic	-	-	-	-	-	-	-	-	-	-	-	-	-
Upl. # 15 (SAWCo's Rts)	50.06	67.43	40.33	56.68	131.58	230.70	162.42	197.56	-	-	-	-	936.75
Subtotal	164.32	174.73	151.64	186.71	279.66	474.18	697.46	729.64	498.96	501.86	-	-	3,859.15
Upl. # 15 (WEWCWCo's Rts) Memo Only	-	-	-	-	-	-	-	-	-	-	-	-	-
SIX BASINS	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR
Yearly Production Rights = 932	7.58%	15.95%	30.05%	38.93%	54.81%	70.53%	86.97%	103.10%	118.67%	134.76%	149.06%	164.16%	
Well #25-A	-	-	-	-	-	-	-	-	-	-	-	-	-
Well #26	0.19	3.22	54.64	7.75	70.60	69.57	73.03	72.01	70.51	71.97	-	-	493.48
Well 27-A	70.47	74.80	76.77	75.02	77.40	76.98	80.19	78.38	74.58	78.04	-	-	762.64
Subtotal	70.66	78.02	131.41	82.76	148.01	146.55	153.22	150.39	145.09	150.01	-	-	1,256.12
TOTAL PUMPED	235.22	253.57	283.05	269.60	427.92	721.07	1,003.33	1,030.72	790.13	796.40	-	-	5,811.00
GRAVITY FLOW	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR
V screen	510.78	581.62	982.80	1,055.15	1,100.92	1,000.66	915.66	666.06	415.53	374.46	-	-	7,603.63
backwash from city treatment plant	0.96	0.18	1.75	0.98	3.30	2.79	1.40	1.14	0.90	1.40	-	-	14.79
San Antonio Tunnel (forebay)	200.81	226.66	239.26	245.10	267.55	248.86	253.72	226.37	246.75	235.68	-	-	2,390.76
Frankish & Stamm Tunnel 8" PRODUCTION	26.39	85.95	125.18	108.82	91.86	58.81	29.04	12.70	2.17	-	-	-	540.92
San Ant. Tunnel Connect to City	-	-	-	-	-	-	-	-	-	-	-	-	-
Discharge to waste	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL GRAVITY	738.94	894.41	1,349.00	1,410.03	1,463.64	1,311.12	1,199.82	906.26	665.36	611.53	-	-	10,550.10
Monthly													
San Antonio Tunnel	200.81	226.66	239.26	245.10	267.55	248.86	253.72	226.37	246.75	235.68	-	-	2,390.76
V Screen, Frankish & Stamm Tunnel and TP Backwash	538.13	667.75	1,109.73	1,164.94	1,196.09	1,062.26	946.10	679.89	418.60	375.85	-	-	8,159.34
Gravity Production	738.94	894.41	1,349.00	1,410.03	1,463.64	1,311.12	1,199.82	906.26	665.36	611.53	-	-	10,550.10
Cumulative													
San Antonio Tunnel	200.81	427.47	666.73	911.83	1,179.38	1,428.24	1,681.96	1,908.33	2,155.08	2,390.76	-	-	2,390.76
V Screen, Frankish & Stamm Tunnel and TP Backwash	538.13	1,205.88	2,315.61	3,480.55	4,676.63	5,738.89	6,684.99	7,364.88	7,783.49	8,159.34	-	-	8,159.34
Gravity Production	738.94	1,633.35	2,982.34	4,392.38	5,856.01	7,167.13	8,366.95	9,273.21	9,938.57	10,550.10	-	-	10,550.10
Purchased Water - Upl. City to Dom. Sys.	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Production	974.16	1,147.98	1,632.05	1,679.63	1,891.56	2,032.19	2,203.16	1,936.99	1,455.48	1,407.93	-	-	16,361.10
Total Cumulative Production	974.16	2,122.14	3,754.18	5,433.81	7,325.37	9,357.55	11,560.71	13,497.69	14,953.18	16,361.10	-	-	16,361.10
Domestic Production	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR
Domestic Production	201.05	227.49	239.26	245.22	267.81	349.20	406.38	377.07	392.83	380.21	-	-	3,086.50
Irrigation Production	773.11	920.50	1,392.78	1,434.41	1,623.75	1,682.99	1,796.78	1,559.92	1,062.65	1,027.72	-	-	13,274.60
Rainfall (Inches)													
RainFall (Inches)	2.28	15.90	6.10	1.60	0.78	-	-	-	-	0.39	-	-	-
Cumulative (Inches)	2.28	18.18	24.28	25.88	26.66	26.66	26.66	26.66	26.66	27.05	-	-	-

2024 Consumption

DOMESTIC	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR
Dom. Sys. - Base	45.61	23.31	50.00	31.15	75.93	76.63	116.52	90.64	111.11	75.99	-	-	696.89
Dom. Sys. - Supplemental	6.60	12.14	15.00	2.37	5.22	33.93	11.74	49.69	12.90	44.78	-	-	194.37
Dom Sys - Tier 3	4.02	15.88	2.00	7.29	2.24	17.15	3.36	35.68	2.28	31.31	-	-	121.21
Dom. Sys. - Del. to Upland(24th/Campus)	39.88	36.96	55.00	51.63	76.65	68.14	42.33	39.70	24.71	29.16	-	-	464.15
Dom. Sys. -Del. To Upland (Well 16/15)	-	-	-	-	-	92.54	155.74	144.38	158.55	146.21	-	-	697.41
Dom. Sys. - Del. to Upland(24th/Mtn)-installed 4/2/19	0.11	0.01	0.27	0.21	-	-	0.12	0.10	-	-	-	-	0.81
Tunnel meter to the Upland	-	-	-	-	-	-	-	-	-	-	-	-	-
Discharge to waste	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	96.22	88.30	122.27	92.65	160.04	288.39	329.81	360.18	309.55	327.44	-	-	2,174.85

Truck Loads - note only crosswall projects	-	-	-	-	-	-	-	-	-	-	-	-	-
Well 32 Hydrant Mtr. - note only(started 8/6/18)Crosswalls	0.02	0.02	0.04	0.04	0.89	-	2.15	-	-	2.56	-	-	5.72

Irr. Note only Del. to MVWD(wheeled through Upland)	38.39	-	-	-	21.44	79.10	23.44	-	0.05	-	-	-	162.42
---	-------	---	---	---	-------	-------	-------	---	------	---	---	---	--------

IRRIGATION	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR
Irrig. Sys.-Upland(Pump & Rec'd) (City W#15)	50.06	67.43	40.33	56.68	131.58	230.70	162.42	197.56	-	-	-	-	936.75
Irrig. Sys. - Upl. City - Tier 1	435.80	175.31	386.45	420.89	479.93	463.44	868.58	905.10	733.68	723.54	-	-	5,592.71
Irrig. Sys. - Upl. City - Tier 2	-	-	-	-	-	-	-	-	-	-	-	-	-
Irrig. Sys. - Monte Vista - Tier 1	38.10	37.20	45.70	40.40	46.00	129.20	75.24	51.80	49.75	51.50	-	-	564.89
Irrig. Sys. - Monte Vista - Tier 2	-	-	-	-	-	-	-	-	-	-	-	-	-
Irrig. Sys. - Ont. City - Tier 1	33.80	33.00	40.50	35.90	40.80	44.40	45.90	45.90	44.10	45.70	-	-	410.00
Irrig. Sys. - Ont. City - Tier 2	-	-	-	-	-	-	-	-	-	-	-	-	-
Irrig. Sys. - Cucamonga Valley - Tier 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Irrig. Sys. - Cucamonga Valley - Tier 2	-	-	-	-	-	-	-	-	-	-	-	-	-
Irrig. Sys. - Holiday Rock Co - Tier 1	14.52	6.22	10.28	17.31	22.86	28.10	31.67	31.67	31.67	25.72	-	-	220.03
Irrig. Sys. - Holiday Rock Co - Tier 2	0.12	-	-	-	6.41	8.62	14.39	9.07	7.86	9.77	-	-	56.24
Irrig. Sys. - Holiday Rock Co - Tier 3	-	-	-	-	-	-	-	-	-	-	-	-	-
Irrig. Sys. - Red Hill Golf Course - Tier 1	4.03	1.24	5.91	16.43	31.73	42.02	47.36	47.36	43.10	38.46	-	-	277.63
Irrig. Sys. - Red Hill Golf Course - Tier 2	-	-	-	-	-	11.42	19.87	17.92	-	3.49	-	-	52.70
Irrig. Sys. - Red Hill Golf Course - Tier 3	-	-	-	-	-	-	-	-	-	-	-	-	-
Irrig. Sys. - Red Hills HOA - Tier 1	0.03	0.03	0.10	1.19	1.47	1.81	2.04	2.04	2.04	1.65	-	-	12.39
Irrig. Sys. - Red Hills HOA - Tier 2	-	-	-	0.39	0.64	0.19	0.68	0.14	0.23	0.09	-	-	2.35
Irrig. Sys. - Red Hills HOA - Tier 3	-	-	-	-	-	-	-	-	-	-	-	-	-
Irrig. Sys. - Minor Irrigators - Tier 1	1.04	0.11	0.13	0.23	1.47	5.12	6.43	5.47	4.78	5.62	-	-	30.39
Irrig. Sys. - Minor Irrigators - Tier 2	-	-	-	-	0.13	0.02	0.33	0.90	0.68	1.27	-	-	3.33
Irrig. Sys. - Minor irrigators - Tier 3	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	577.50	320.54	529.40	589.42	763.02	965.02	1,274.90	1,314.92	917.88	906.81	-	-	8,159.41

COMPANY TOTALS	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR
San Antonio Heights	56.23	51.33	67.00	40.81	83.39	127.71	131.62	176.01	126.29	152.08	-	-	1,012.47
City of Upland	525.85	279.72	482.05	529.40	688.16	854.81	1,229.19	1,286.83	916.94	898.90	-	-	7,691.84
Monte Vista Water District	38.10	37.20	45.70	40.40	46.00	129.20	75.24	51.80	49.75	51.50	-	-	564.89
City of Ontario	33.80	33.00	40.50	35.90	40.80	44.40	45.90	45.90	44.10	45.70	-	-	410.00
Cucamonga Valley Water District	-	-	-	-	-	-	-	-	-	-	-	-	-
Holiday Rock Company	14.64	6.22	10.28	17.31	29.27	36.72	46.06	40.74	39.53	35.49	-	-	276.26
Red Hills Golf Course	4.03	1.24	5.91	16.43	31.73	53.43	67.23	65.28	43.10	41.95	-	-	330.33
Red Hill HOA	0.03	0.03	0.10	1.59	2.11	1.99	2.72	2.17	2.26	1.75	-	-	14.74
Minor Irrigators	1.04	0.11	0.13	0.23	1.60	5.14	6.76	6.37	5.46	6.89	-	-	33.72
TOTAL	673.72	408.84	651.67	682.06	923.06	1,253.40	1,604.72	1,675.11	1,227.43	1,234.26	-	-	10,334.25

IRRIGATORS	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR
Irrigator Emberton	0.12	0.09	0.11	0.18	0.25	0.53	0.93	1.50	1.28	1.23	-	-	6.22
Irrigator McMurray - now Dicarlo 7/23	0.00	-	0.02	0.05	0.10	0.15	0.17	0.18	0.26	0.16	-	-	1.08
Irrigator Mistretta	-	-	-	-	0.60	0.62	0.84	0.84	0.84	0.74	-	-	4.48
Irrigator Nisbit	-	-	-	-	-	-	-	-	-	-	-	-	-
Irrigator Scheu	0.79	-	-	-	-	3.47	3.97	3.17	2.38	3.97	-	-	17.75
Irrigator Pfister	0.13	0.01	-	-	0.64	0.37	0.85	0.68	0.71	0.79	-	-	4.19

2024 Spread and Storage

Cucamonga Basin	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR
23rd St. (Meter) - Basin 6 - A	0.08	65.79	205.56	180.93	139.47	76.99	62.97	20.89	0.01	0.01	-	-	752.70
15th Street Basin	-	-	-	0.08	-	-	-	-	-	-	-	-	0.08
Basin 3 meter (23rd street Clock)	156.69	178.49	236.03	228.30	247.65	241.93	242.51	179.46	115.01	129.51	-	-	1,955.58
Frankish & Stamm Tunnel to Basin 3	26.39	85.95	125.18	39.62	93.21	59.40	28.96	11.94	1.94	-	-	-	472.59
Vscreen via Frankish & Stamm Meter to Basin 3	47.08	68.23	70.57	101.79	3.23	-	0.01	-	-	-	-	-	290.92
PRV Station (res 1)(basin 6)	2.61	-	73.29	0.14	0.26	6.31	0.03	0.01	0.08	0.02	-	-	82.73
Monthly Spread	232.85	398.46	710.64	550.86	483.81	384.63	334.47	212.30	117.04	129.54	-	-	3,554.60
Cumulative Spread	232.85	631.31	1,341.95	1,892.81	2,376.62	2,761.25	3,095.73	3,308.02	3,425.06	3,554.60	-	-	

Six Basins

Note: City of Upland Well Exercising may contribute to spread

Monthly Spread	61.44	324.45	61.92	20.80	0.26	0.07	0.04	54.61	86.55	52.71	-	-	662.84
Cumulative Spread	61.44	385.89	447.81	468.60	468.86	468.93	468.97	523.58	610.12	662.84	662.84	662.84	

Note: Maximum end of year storage limit: 2,000 AF

Previous Storage	985.50	1,053.94	1,378.04	1,386.21	1,401.91	1,331.83	1,263.02	1,187.51	1,169.39	1,188.51	1,168.89	-	
Spread	61.44	324.45	61.92	20.80	0.26	0.07	0.04	54.61	86.55	52.71	-	-	
Unused Monthly OSY	7.00	(0.35)	(53.74)	(5.10)	(70.34)	(68.88)	(75.55)	(72.72)	(67.42)	(72.34)	-	-	
Current Storage Estimate	1,054	1,378	1,386	1,402	1,332	1,263	1,188	1,169	1,189	1,169	1,169	1,169	

932 yearly OSY = 77.67 monthly OSY

Chino Basin (storage numbers were changed in June 2024 to match CBWM numbers)

Monthly Spread	-	-	270.69	383.44	429.58	315.09	247.77	0.01	-	-	-	-	1,646.60
Cumulative Spread	-	-	270.69	654.14	1,083.72	1,398.82	1,646.58	1,646.60	1,646.60	1,646.60	1,646.60	1,646.60	

Local Supplemental Account (Spreading)*	3,923.25	3,923.25	3,923.25	4,193.94	4,577.39	5,557.50	5,872.59	6,120.36	6,120.38	6,120.38	-	-	
Carry Over Account	1,232.00	1,232.00	1,232.00	1,232.00	1,232.00	1,855.90	1,232.00	1,232.00	1,232.00	1,232.00	-	-	
Excess Carry Over Account*	2,104.00	2,206.43	2,308.27	2,410.94	2,513.49	5,953.90	5,956.22	5,906.24	5,858.21	5,814.80	-	-	
Preemptive Replenishment Account	-	-	-	-	-	-	-	-	-	-	-	-	
Total Storage	7,259.25	7,361.68	7,463.52	7,836.88	8,322.87	13,367.30	13,060.82	13,258.60	13,210.59	13,167.17	-	-	
Spread	-	-	270.69	383.44	429.58	315.09	247.77	0.01	-	-	-	-	
Unused Monthly OSY	102.43	101.84	102.67	102.55	102.41	2.32	(49.99)	(48.03)	(43.41)	(41.86)	-	-	
Current Storage Estimate*	7,362	7,464	7,837	8,323	8,855	13,685	13,259	13,211	13,167	13,125	-	-	

1,232 yearly OSY = 102.67 monthly OSY

* Does not include yearly storage losses calc of 0.07%

Company Wide

Monthly Spread	294.30	722.91	1,043.25	955.10	913.66	699.80	582.28	266.92	203.59	182.25	-	-	5,864.04
Cumulative Spread	294.30	1,017.20	2,060.45	3,015.55	3,929.20	4,629.00	5,211.28	5,478.20	5,681.78	5,864.04	-	-	
Total Current Storage Estimate	8,416	8,842	9,223	9,725	10,187	14,948	14,446	14,380	14,356	14,294	1,169	-	

Meter to spread ponds (NOTE ONLY)	0.18	-	-	-	-	-	-	0.57	0.49	0.51	-	-	1.75
-----------------------------------	------	---	---	---	---	---	---	------	------	------	---	---	------

2024 GW Production Rights

Yearly %	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
	8%	17%	25%	33%	42%	50%	58%	67%	75%	83%	92%	100%

Cucamonga Basin Production

Yearly Production Rights = 5637 (4,500AF + 1137AF 10-yr Average Spread)

	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR
Production	164.32	174.73	151.64	186.71	279.66	474.18	697.46	729.64	498.96	501.86	-	-	
Cumulative Production	164.32	339.05	490.69	677.40	957.06	1,431.24	2,128.70	2,858.33	3,357.29	3,859.15	-	-	3,859.15
Cumulative Production Rights	469.72	939.45	1,409.17	1,878.90	2,348.62	2,818.35	3,288.07	3,757.80	4,227.52	4,697.25	-	-	5,637
% of Production Rights*	2.92%	6.01%	8.71%	12.02%	16.98%	25.39%	37.76%	50.71%	59.56%	68.46%	77.40%	86.38%	68.5%

Six Basins Production

Yearly Production Rights = 932AF

	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR
Production	70.66	78.02	131.41	82.76	148.01	146.55	153.22	150.39	145.09	150.01	-	-	
Cumulative Production	70.66	148.68	280.09	362.85	510.86	657.41	810.63	961.02	1,106.11	1,256.12	-	-	1,256.12
Cumulative Production Rights	77.68	155.35	233.03	310.70	388.38	466.05	543.73	621.40	699.08	776.75	-	-	932
% of Production Rights*	7.58%	15.95%	30.05%	38.93%	54.81%	70.53%	86.97%	103.10%	118.67%	134.76%	149.06%	164.16%	134.8%

Chino Basin Production

Note: Chino Basin production rights are calculated from July through June.

Yearly Production Rights = 1232AF

	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR
Production		0.23	0.83	-	0.12	0.26	100.34	152.65	150.70	146.08	144.53	-	-	695.74
Cumulative Production for 2023	2.43	0.23	1.06	1.06	1.18	1.44	101.78	254.43	405.13	551.21	695.74	-	-	
Water Year 23-24														
Cumulative Production	2.43	2.66	3.49	3.49	3.61	3.87	104.21							104.21
Cumulative Rights	616.00	718.67	821.33	924.00	1,026.67	1,129.33	1,232.00							1,232.00
% of Production Rights 22-23*		0.22%	0.28%	0.28%	0.29%	0.31%	8.46%							
Water Year 24-25														
Cumulative Production								152.65	303.35	449.43	593.96	-	-	1,499.39
Cumulative Rights								102.67	205.33	308.00	410.67	513.33	616.00	1,232.00
% of Production Rights 22-23*								12.39%	24.62%	36.48%	48.21%	60.19%	72.08%	

* - Out months are Exponential Smoothing (ETS) forecasts based on basin production to date

Chino Basin	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	WY19-20
Water Year 19-20													
Cumulative Production	5.24	110.22	227.03	351.18	470.30	470.30	470.53	470.80	470.80	471.09	486.34	614.43	
Cumulative Rights	102.67	205.33	308.00	410.67	513.33	616.00	718.67	821.33	924.00	1,026.67	1,129.33	1,232.00	1,232.00
% of Production Rights 19-20	5.10%	53.68%	73.71%	85.51%	91.62%	76.35%	65.47%	57.32%	50.95%	45.89%	43.06%	49.87%	

2024 Production v Consumption

Yearly %	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
	8%	17%	25%	33%	42%	50%	58%	67%	75%	83%	92%	100%

Consumption versus Entitlement, Company Wide **Active Shares**

	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR
Consumption	673.72	408.84	651.67	682.06	923.06	1,253.40	1,604.72	1,675.11	1,227.43	1,234.26	-	-	
Cumulative Consumption	673.72	1,082.56	1,734.23	2,416.29	3,339.34	4,592.75	6,197.46	7,872.57	9,100.00	10,334.25	-	-	10,334.25
<i>Cumulative Entitlement (straight line)</i>	1,048.45	2,096.89	3,145.34	4,193.78	5,242.23	6,290.68	7,339.12	8,387.57	9,436.01	10,484.46	-	-	12,581
% of Entitlement*	5.35%	8.60%	13.78%	19.21%	26.54%	36.50%	49.26%	62.57%	72.33%	82.14%	91.97%	102.05%	82.1%

Consumption versus Entitlement, Company Wide **Total Shares**

	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR
Consumption	673.72	408.84	651.67	682.06	923.06	1,253.40	1,604.72	1,675.11	1,227.43	1,234.26	-	-	
Cumulative Consumption	673.72	1,082.56	1,734.23	2,416.29	3,339.34	4,592.75	6,197.46	7,872.57	9,100.00	10,334.25	-	-	10,334.25
<i>Cumulative Entitlement (straight line)</i>	1,083.33	2,166.67	3,250.00	4,333.33	5,416.67	6,500.00	7,583.33	8,666.67	9,750.00	10,833.33	-	-	13,000
% of Entitlement*	5.18%	8.33%	13.34%	18.59%	25.69%	35.33%	47.67%	60.56%	70.00%	79.49%	89.01%	98.77%	79.5%

Production versus Consumption, Company Wide

	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR
Production	974.16	1,147.98	1,632.05	1,679.63	1,891.56	2,032.19	2,203.16	1,936.99	1,455.48	1,407.93	-	-	16,361.10
Consumption	673.72	408.84	651.67	682.06	923.06	1,253.40	1,604.72	1,675.11	1,227.43	1,234.26	-	-	10,334.25
Spread	294.30	722.91	1,043.25	955.10	913.66	699.80	582.28	266.92	203.59	182.25	-	-	5,864.04
Total Consumption	968.01	1,131.75	1,694.91	1,637.16	1,836.71	1,953.20	2,187.00	1,942.02	1,431.01	1,416.51	-	-	16,198.29
Difference	6.14	16.23	(62.87)	42.47	54.85	78.99	16.16	(5.04)	24.47	(8.58)	-	-	162.81
% of Production	0.6%	1.4%	-3.9%	2.5%	2.9%	3.9%	0.73%	-0.3%	1.7%	-0.6%	0.0%	0.0%	1.0%

Production versus Consumption, Domestic System

	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR
Production	201.05	227.49	239.26	245.22	267.81	349.20	406.38	377.07	392.83	380.21	-	-	3,086.50
Consumption	96.22	88.30	122.27	92.65	160.04	288.39	329.81	360.18	309.55	327.44	-	-	2,174.85
Monthly Difference	104.83	139.18	117.00	152.57	107.77	60.82	76.56	16.88	83.28	52.77	-	-	911.65
% difference	108.95%	157.62%	95.69%	164.68%	67.34%	21.09%	23.21%	4.69%	26.90%	16.11%	0.00%	0.00%	41.9%

Production versus Consumption, Irrigation System

	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR
Production	773.11	920.50	1,392.78	1,434.41	1,623.75	1,682.99	1,796.78	1,559.92	1,062.65	1,027.72	-	-	13,274.60
Addition from Domestic	104.83	139.18	117.00	152.57	107.77	60.82	76.56	16.88	83.28	52.77	-	-	911.65
Total Production	877.94	1,059.68	1,509.78	1,586.98	1,731.52	1,743.80	1,873.34	1,576.80	1,145.93	1,080.49	-	-	14,186.26
Consumption	871.80	1,043.45	1,572.65	1,544.51	1,676.67	1,664.82	1,857.18	1,581.84	1,121.46	1,089.07	-	-	14,023.44
Monthly Difference	6.14	16.23	(62.87)	42.47	54.85	78.99	16.16	(5.04)	24.47	(8.58)	-	-	162.81
% difference	0.70%	1.56%	-4.00%	2.75%	3.27%	4.74%	0.87%	-0.32%	2.18%	-0.79%	0.00%	0.00%	1.2%

* - Out months are Exponential Smoothing (ETS) forecasts based on consumption to date

2024 Consumption Analysis

Yearly %	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
	8%	17%	25%	33%	42%	50%	58%	67%	75%	83%	92%	100%

COMPANY TOTALS

Active Shares

	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR
Consumption	673.72	408.84	651.67	682.06	923.06	1,253.40	1,604.72	1,675.11	1,227.43	1,234.26	-	-	
Cumulative Consumption	673.72	1,082.56	1,734.23	2,416.29	3,339.34	4,592.75	6,197.46	7,872.57	9,100.00	10,334.25	-	-	10,334.25
Cumulative Entitlement	984.72	1,969.45	2,970.88	3,987.21	5,036.92	6,127.49	7,245.92	8,364.36	9,482.79	10,554.83	-	-	12,581.35
% of Yearly Entitlement*	5.35%	8.60%	13.78%	19.21%	26.54%	36.50%	49.26%	62.57%	72.33%	82.14%	91.97%	102.05%	82.14%

Shares | 6,183

COMPANY TOTALS

All Shares

	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR
Consumption	673.72	408.84	651.67	682.06	923.06	1,253.40	1,604.72	1,675.11	1,227.43	1,234.26	-	-	
Cumulative Consumption	673.72	1,082.56	1,734.23	2,416.29	3,339.34	4,592.75	6,197.46	7,872.57	9,100.00	10,334.25	-	-	10,334.25
Cumulative Entitlement	1,083.33	2,166.67	3,250.00	4,333.33	5,416.67	6,500.00	7,583.33	8,666.67	9,750.00	10,833.33	-	-	13,000.00
% of Yearly Entitlement*	5.18%	8.33%	13.34%	18.59%	25.69%	35.33%	47.67%	60.56%	70.00%	79.49%	89.01%	98.77%	79.49%

Shares | 6,389

San Antonio Heights

	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR
Consumption	56.23	51.33	67.00	40.81	83.39	127.71	131.62	176.01	126.29	152.08	-	-	
Cumulative Consumption	56.23	107.56	174.56	215.37	298.76	426.47	558.09	734.10	860.39	1,012.47	-	-	1,012.47
Cumulative Entitlement	70.95	141.89	223.31	314.06	425.71	562.97	717.67	872.38	1,027.09	1,152.73	-	-	1,314.45
% of Yearly Entitlement*	4.28%	8.18%	13.28%	16.38%	22.73%	32.44%	42.46%	55.85%	65.46%	77.03%	88.07%	99.04%	77.03%

Shares | 646

City of Upland

	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR
Consumption	525.85	279.72	482.05	529.40	688.16	854.81	1,229.19	1,286.83	916.94	898.90	-	-	
Cumulative Consumption	525.85	805.56	1,287.61	1,817.01	2,505.17	3,359.98	4,589.18	5,876.00	6,792.94	7,691.84	-	-	7,691.84
Cumulative Entitlement	764.98	1,529.96	2,294.94	3,059.92	3,824.90	4,589.88	5,354.86	6,119.84	6,884.82	7,649.80	-	-	9,179.76
% of Yearly Entitlement*	5.73%	8.78%	14.03%	19.79%	27.29%	36.60%	49.99%	64.01%	74.00%	83.79%	93.64%	103.80%	83.79%

Shares | 4,511.50

Monte Vista Water District

	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR
Consumption	38.10	37.20	45.70	40.40	46.00	129.20	75.24	51.80	49.75	51.50	-	-	
Cumulative Consumption	38.10	75.30	121.00	161.40	207.40	336.60	411.84	463.64	513.39	564.89	-	-	564.89
Cumulative Entitlement	56.42	112.84	169.27	225.69	282.11	338.53	394.95	451.37	507.80	564.22	-	-	677.06
% of Yearly Entitlement*	5.63%	11.12%	17.87%	23.84%	30.63%	49.72%	60.83%	68.48%	75.83%	83.43%	92.93%	102.64%	83.43%

Shares | 333

City of Ontario

	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR
Consumption	33.80	33.00	40.50	35.90	40.80	44.40	45.90	45.90	44.10	45.70	-	-	
Cumulative Consumption	33.80	66.80	107.30	143.20	184.00	228.40	274.30	320.20	364.30	410.00	-	-	410.00
Cumulative Entitlement	50.06	100.13	150.19	200.25	250.32	300.38	350.44	400.51	450.57	500.63	-	-	600.76
% of Yearly Entitlement*	5.63%	11.12%	17.86%	23.84%	30.63%	38.02%	45.66%	53.30%	60.64%	68.25%	75.75%	83.27%	68.25%

Shares | 295

* - Out months are Exponential Smoothing (ETS) forecasts based on consumption to date

2024 Consumption Analysis

Yearly %	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
	8%	17%	25%	33%	42%	50%	58%	67%	75%	83%	92%	100%

Cucamonga Valley Water District

	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR	Shares	4
Consumption	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cumulative Consumption	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cumulative Entitlement	-	-	-	-	-	-	-	-	-	-	-	-	8.14		
% of Yearly Entitlement*															

Holiday Rock Company

	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR	Shares	132
Consumption	14.64	6.22	10.28	17.31	29.27	36.72	46.06	40.74	39.53	35.49	-	-			
Cumulative Consumption	14.64	20.86	31.14	48.45	77.72	114.43	160.49	201.24	240.77	276.26	-	-	276.26		
Cumulative Entitlement	14.52	29.05	45.72	64.29	87.15	115.25	146.92	178.60	210.27	235.99	-	-	269.10		
% of Yearly Entitlement*	5.44%	7.75%	11.57%	18.00%	28.88%	42.53%	59.64%	74.78%	89.47%	102.66%	116.01%	129.65%	102.66%		

Red Hills Golf Course

	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR	Shares	198
Consumption	4.03	1.24	5.91	16.43	31.73	53.43	67.23	65.28	43.10	41.95	-	-			
Cumulative Consumption	4.03	5.27	11.18	27.61	59.34	112.77	180.00	245.28	288.38	330.33	-	-	330.33		
Cumulative Entitlement	21.72	43.44	68.36	96.14	130.32	172.33	219.69	267.05	314.41	352.87	-	-	402.37		
% of Yearly Entitlement*	1.00%	1.31%	2.78%	6.86%	14.75%	28.03%	44.73%	60.96%	71.67%	82.10%	92.60%	103.63%	82.10%		

Minor Irrigators

	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	THIS YEAR	Shares	55
Consumption	1.04	0.11	0.13	0.23	1.60	5.14	6.76	6.37	5.46	6.89	-	-			
Cumulative Consumption	1.04	1.15	1.28	1.51	3.10	8.24	15.00	21.38	26.84	33.72	-	-	33.72		
Cumulative Entitlement	6.07	12.14	19.10	26.86	36.41	48.15	61.38	74.61	87.84	98.59	-	-	112.42		
% of Yearly Entitlement*	0.92%	1.02%	1.14%	1.34%	2.76%	7.33%	13.34%	19.01%	23.87%	30.00%	36.00%	42.00%	30.00%		

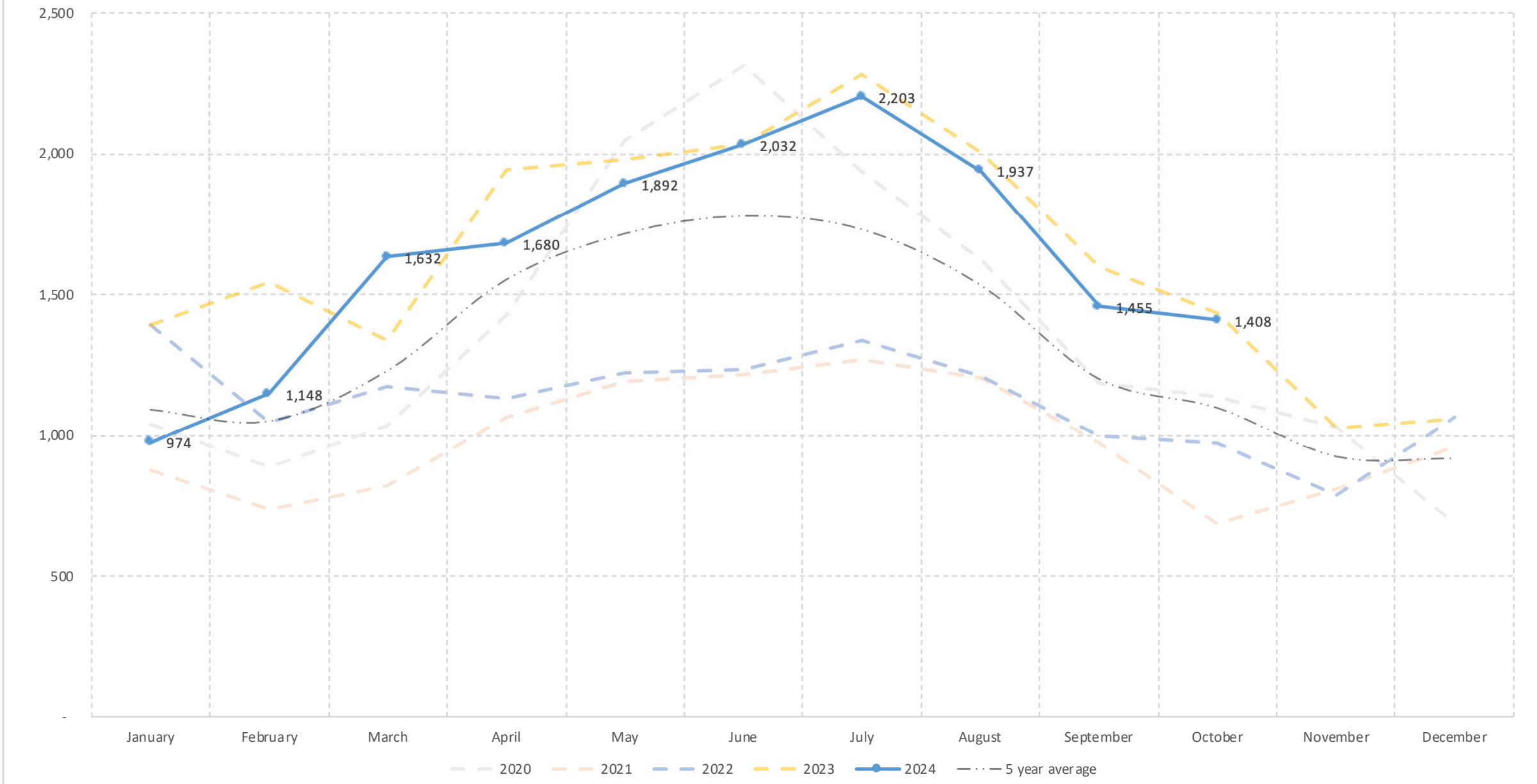
* - Out months are Exponential Smoothing (ETS) forecasts based on consumption to date

Cumulative Consumption to Date

	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24
Domestic	56.23	107.56	174.56	215.37	298.76	426.47	558.09	734.10	860.39	1,012.47	-	-
Municipal	597.75	947.66	1,515.91	2,121.61	2,896.57	3,924.99	5,275.32	6,659.85	7,670.63	8,666.73	-	-
Misc	19.74	27.34	43.76	79.31	144.01	241.29	364.05	478.62	568.98	655.05	-	-
Total Consumption	674	1,083	1,734	2,416	3,339	4,593	6,197	7,873	9,100	10,334	-	-

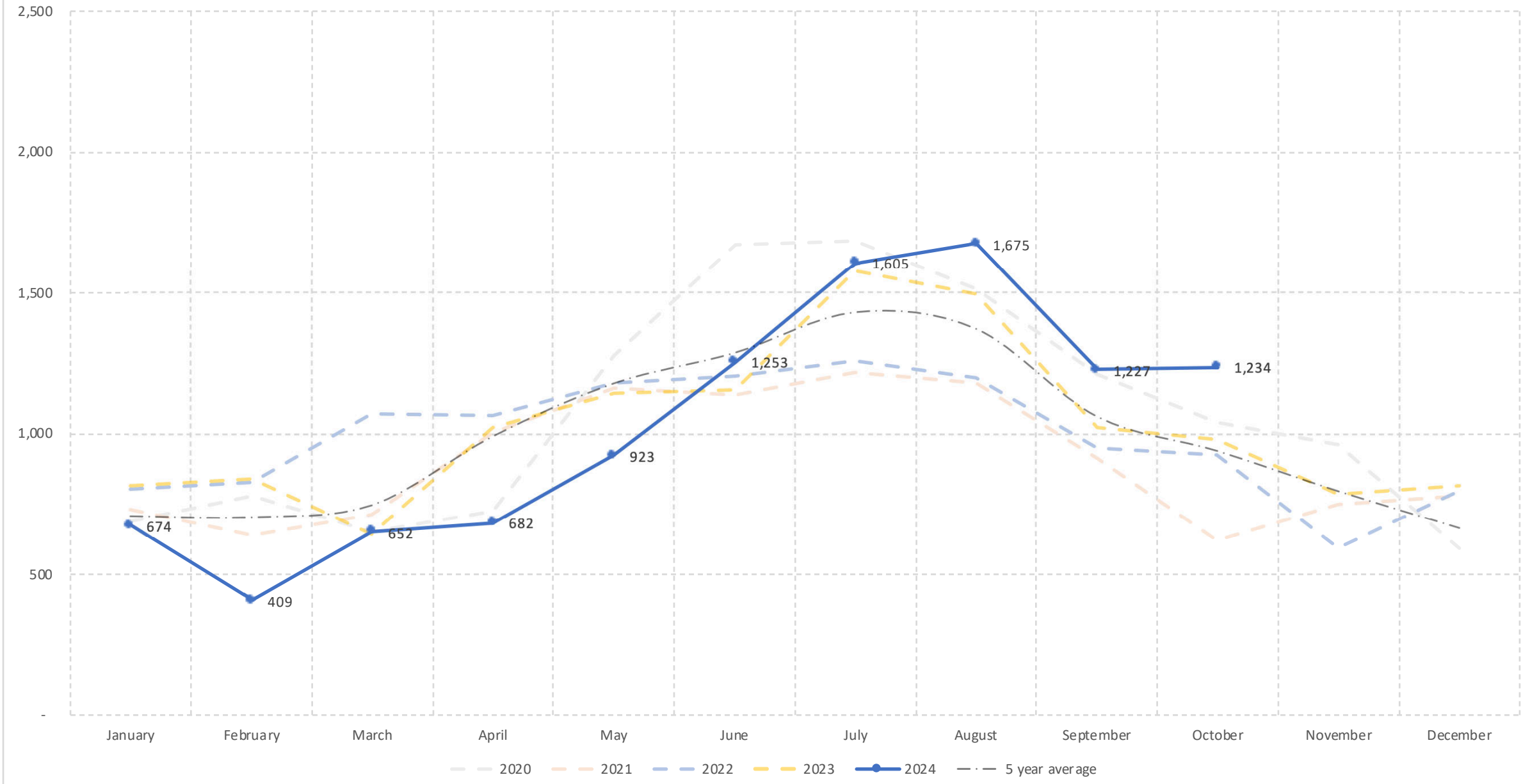
5yr Production

5 Year Production (AF)



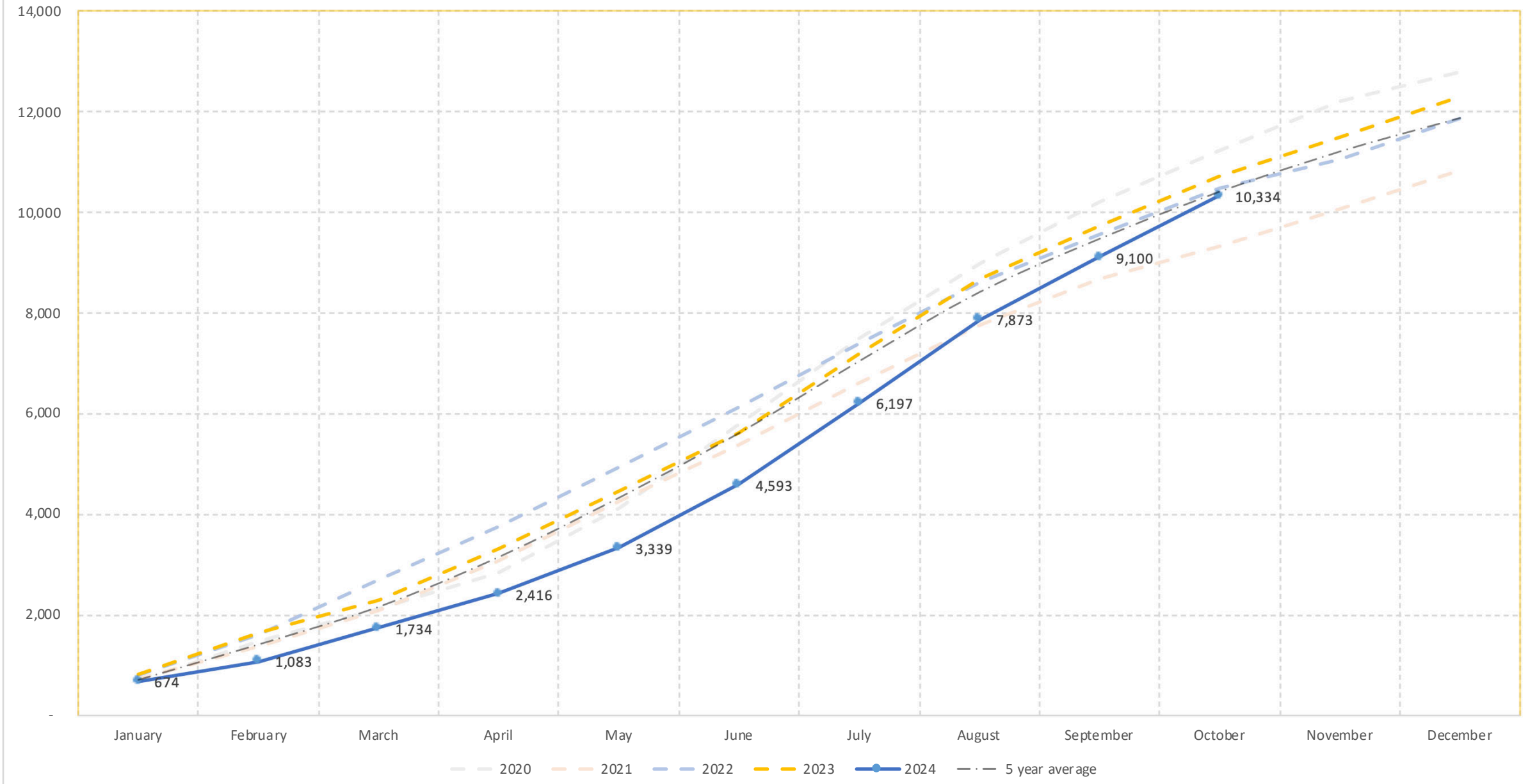
5yr Consumption

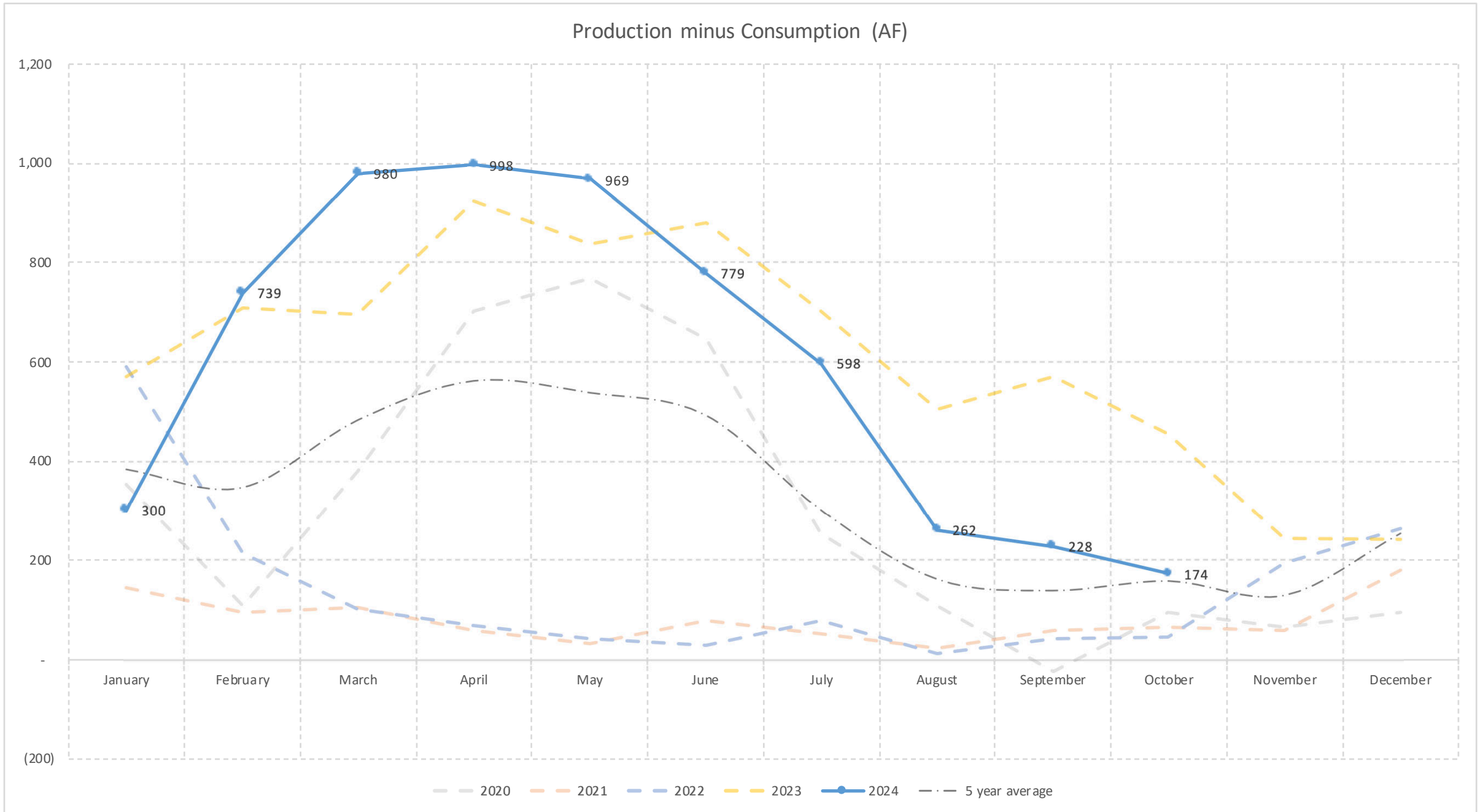
5 Year Consumption (AF)



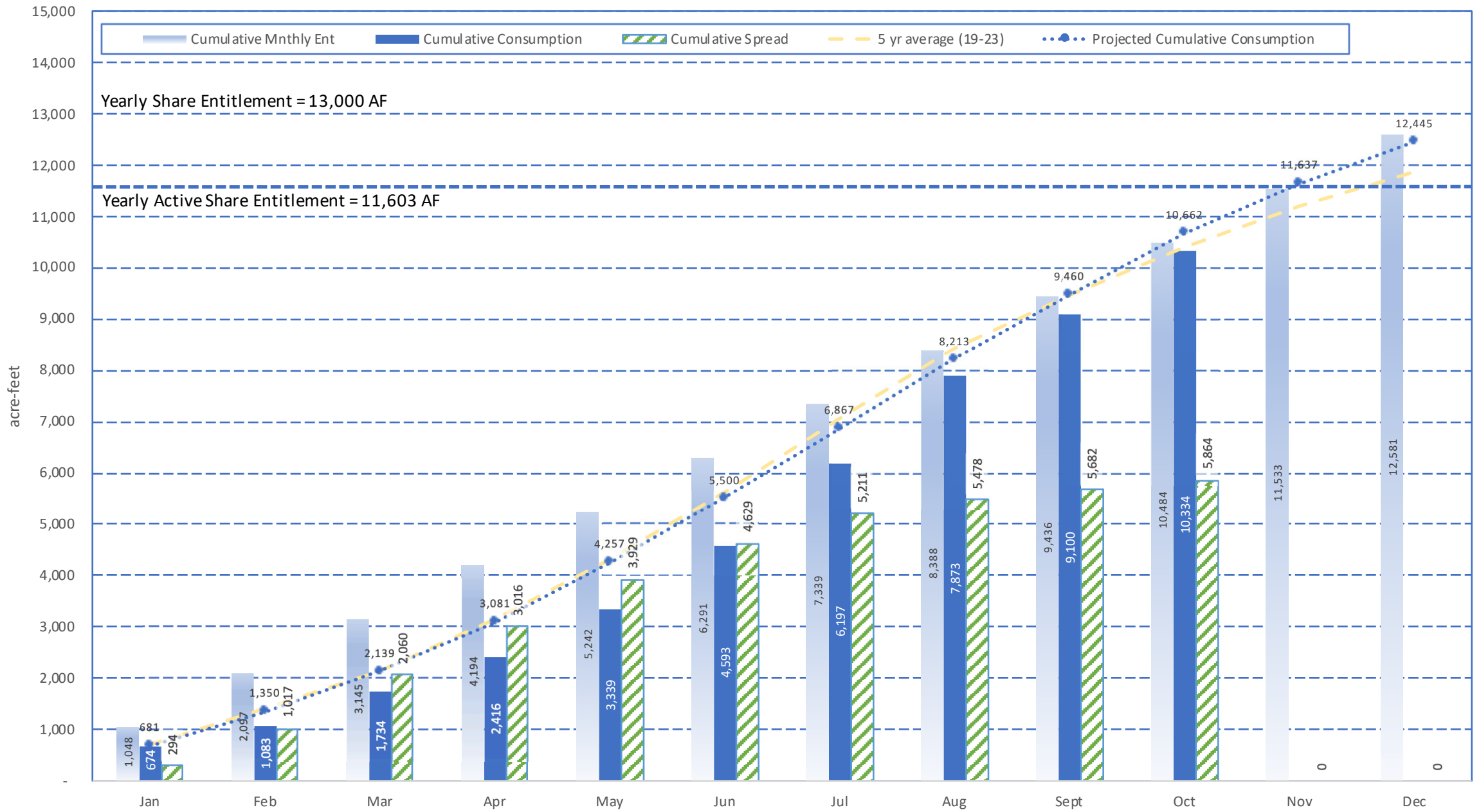
5yr Cumulative Consumption

Cumulative Consumption (AF)

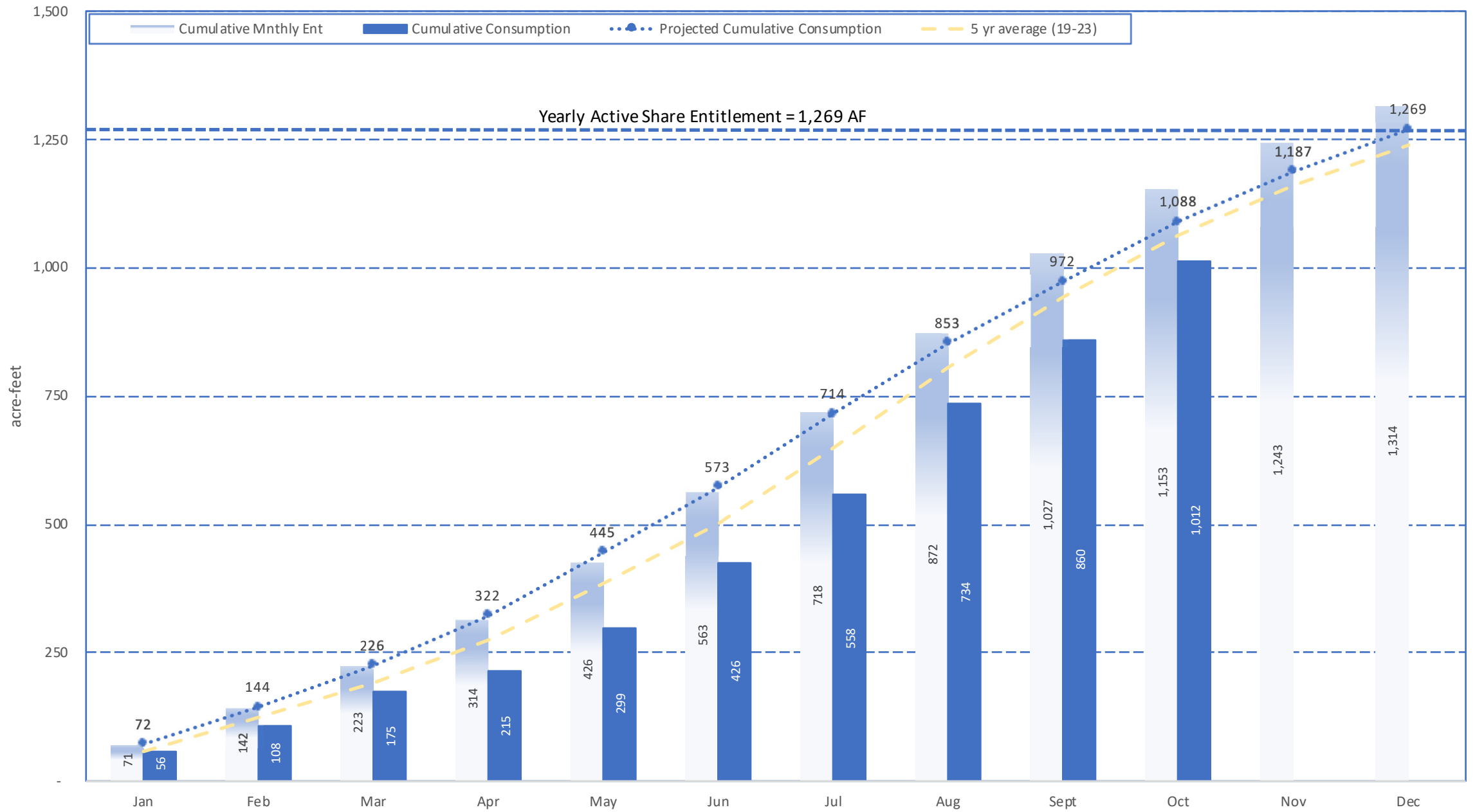




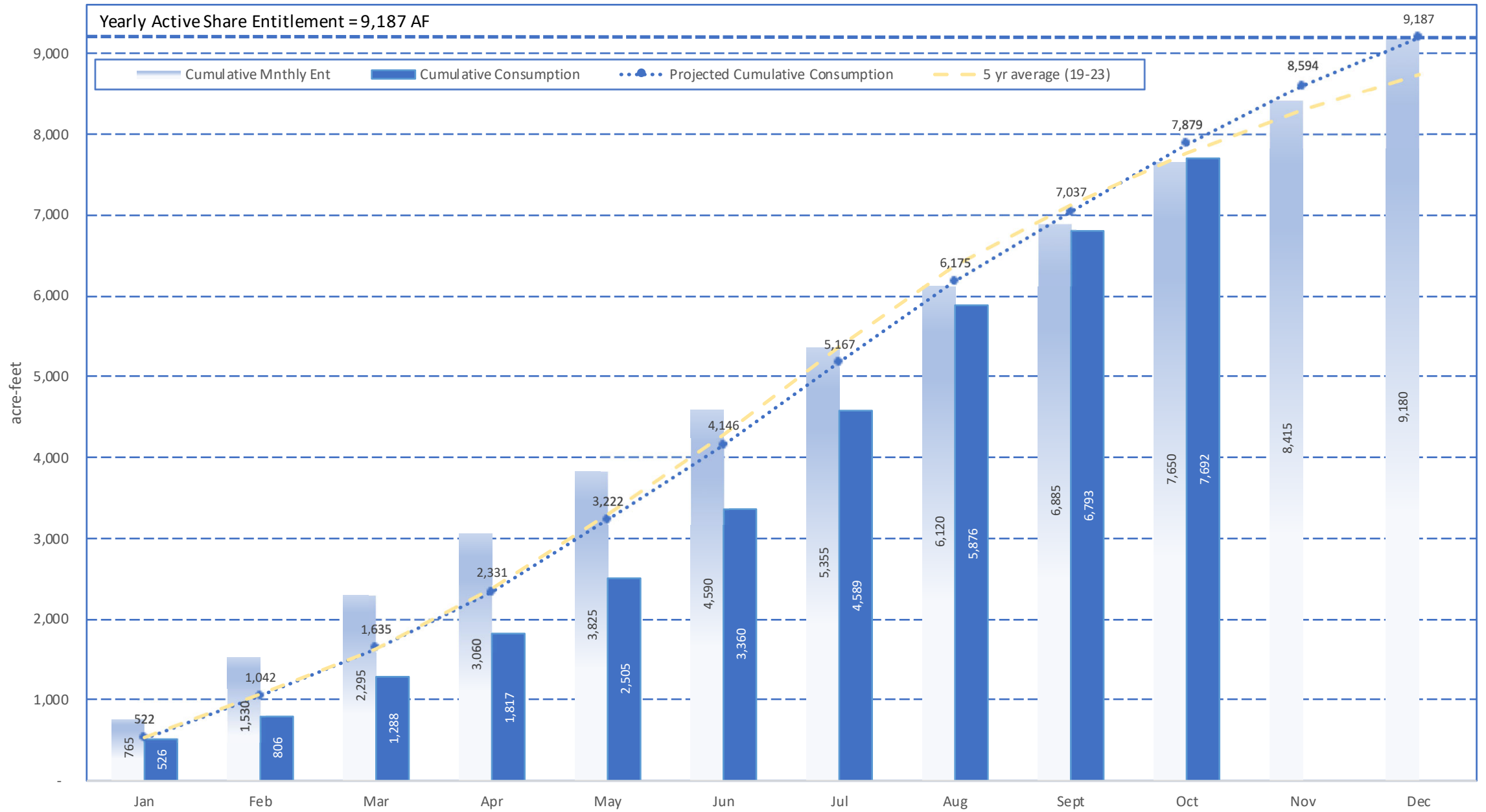
2024 Consumption Chart



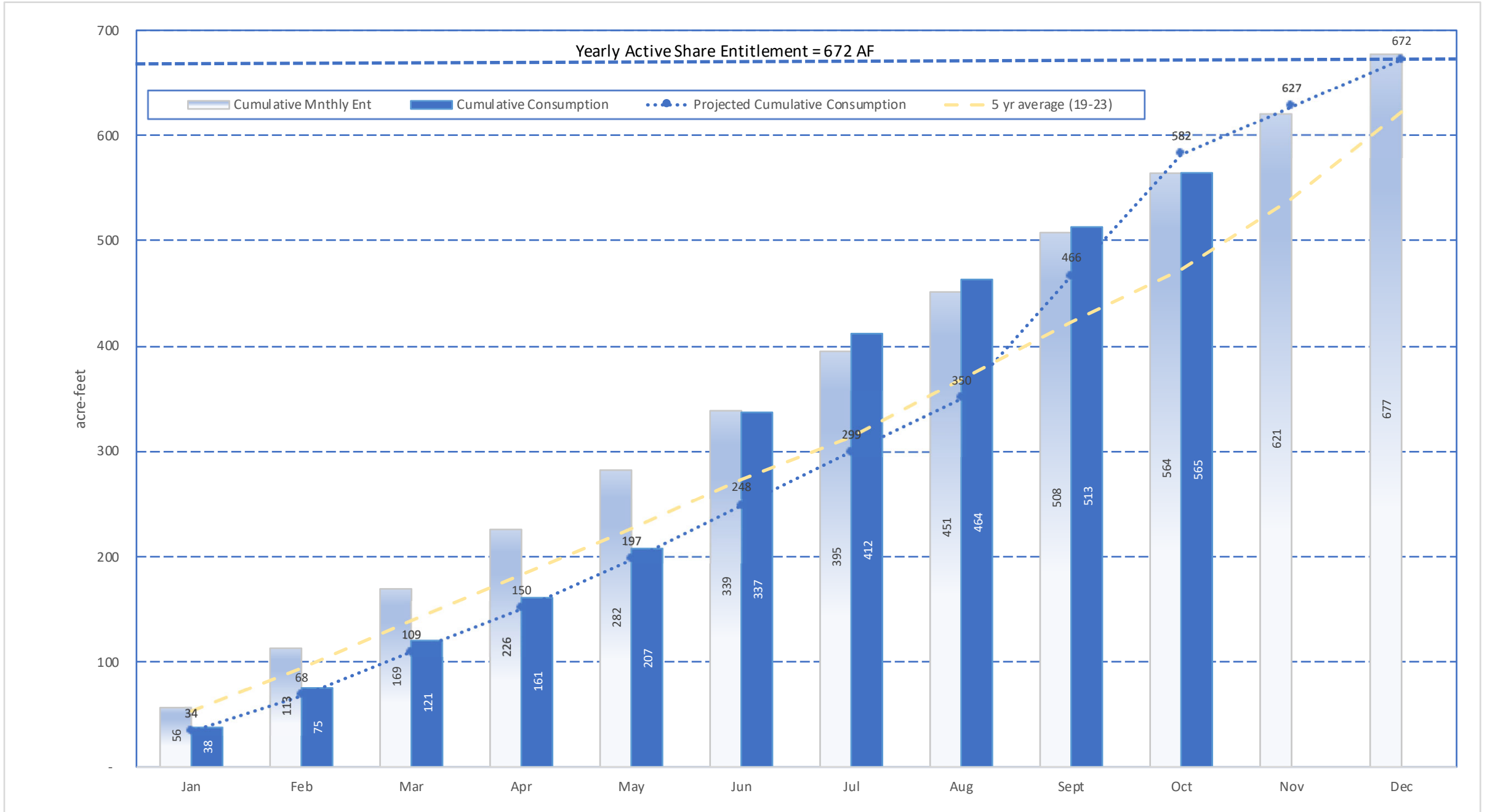
2024 Domestic Consumption



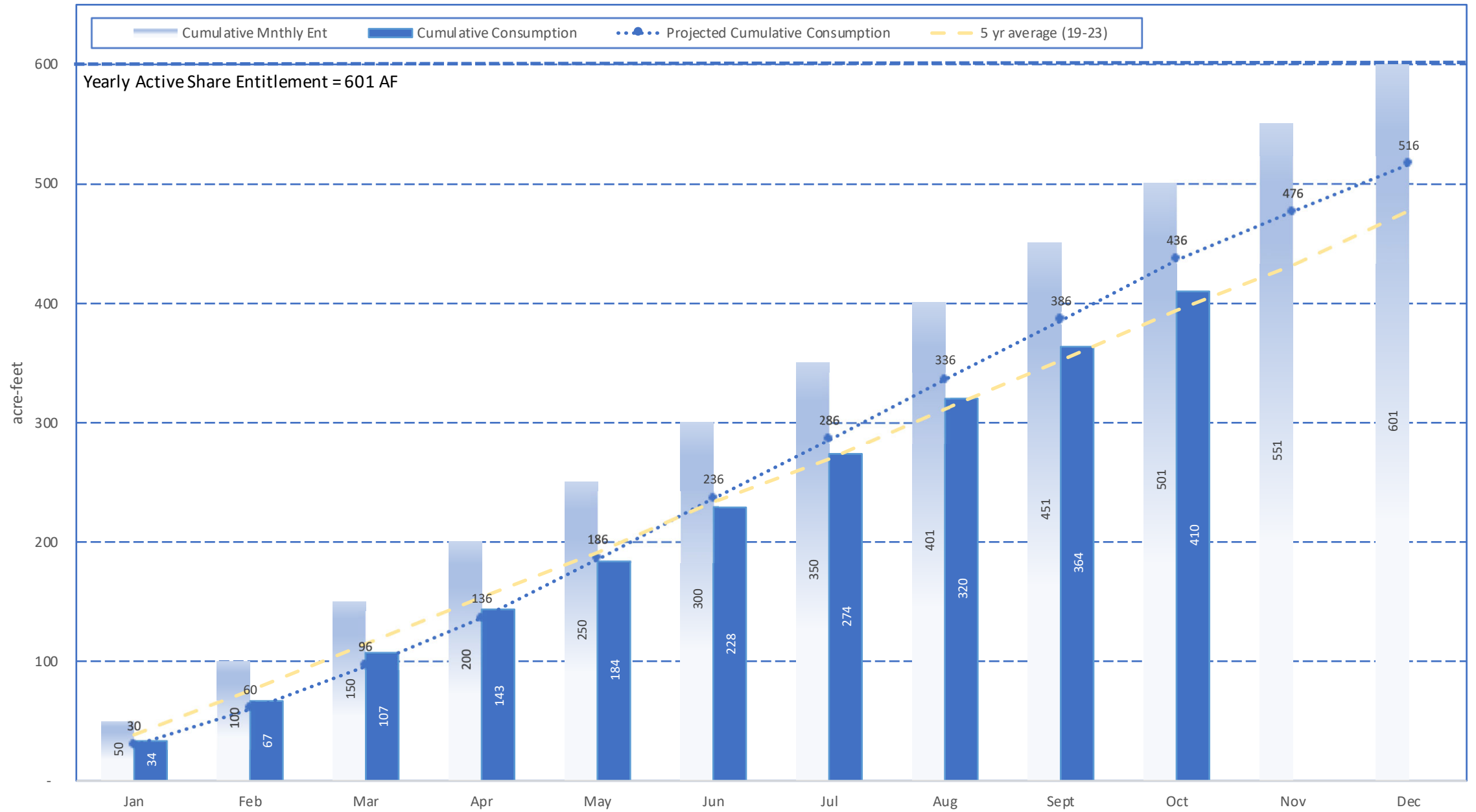
2024 Upland Consumption



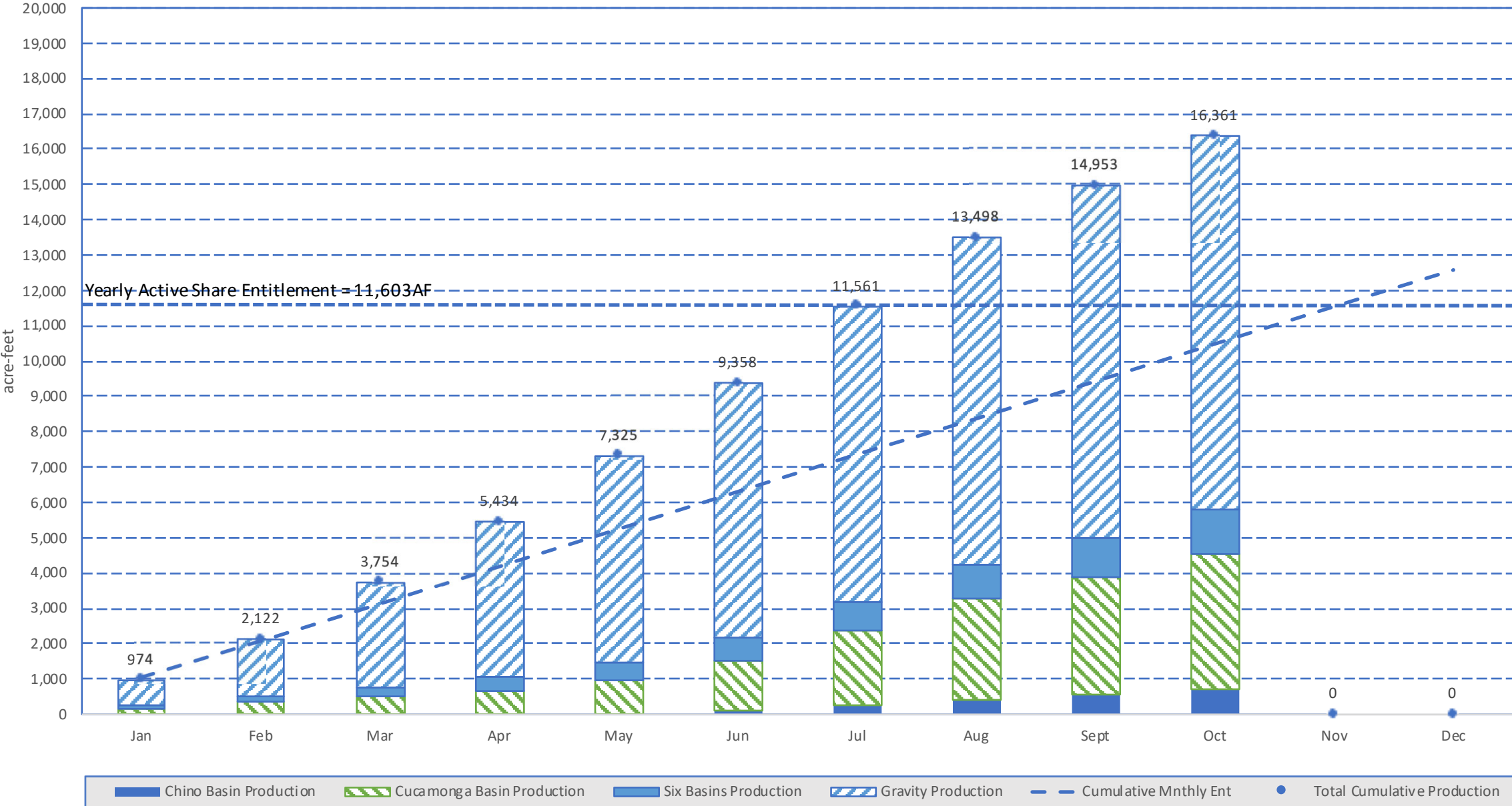
2024 Monte Vista Consumption



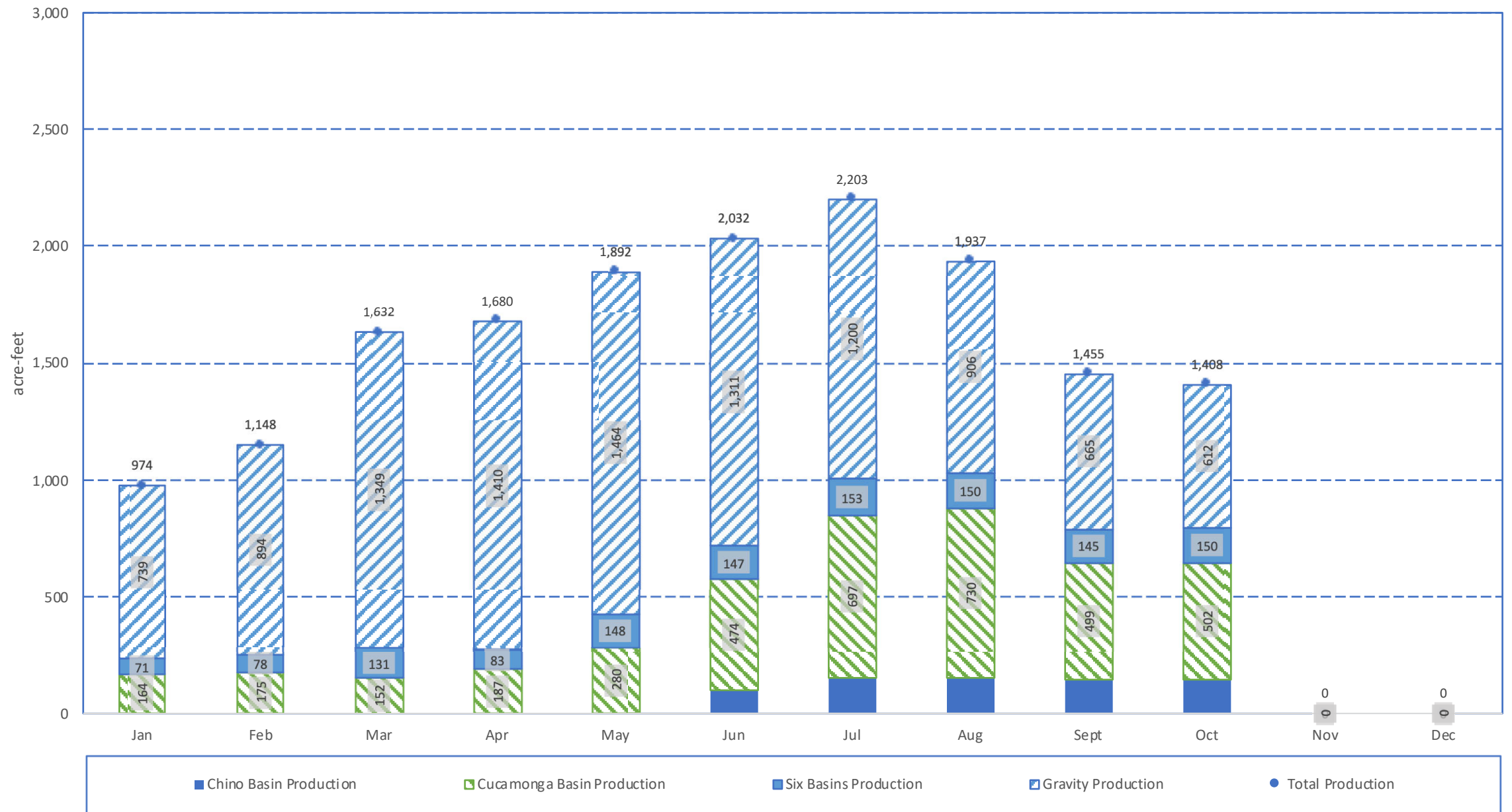
2024 Ontario Consumption



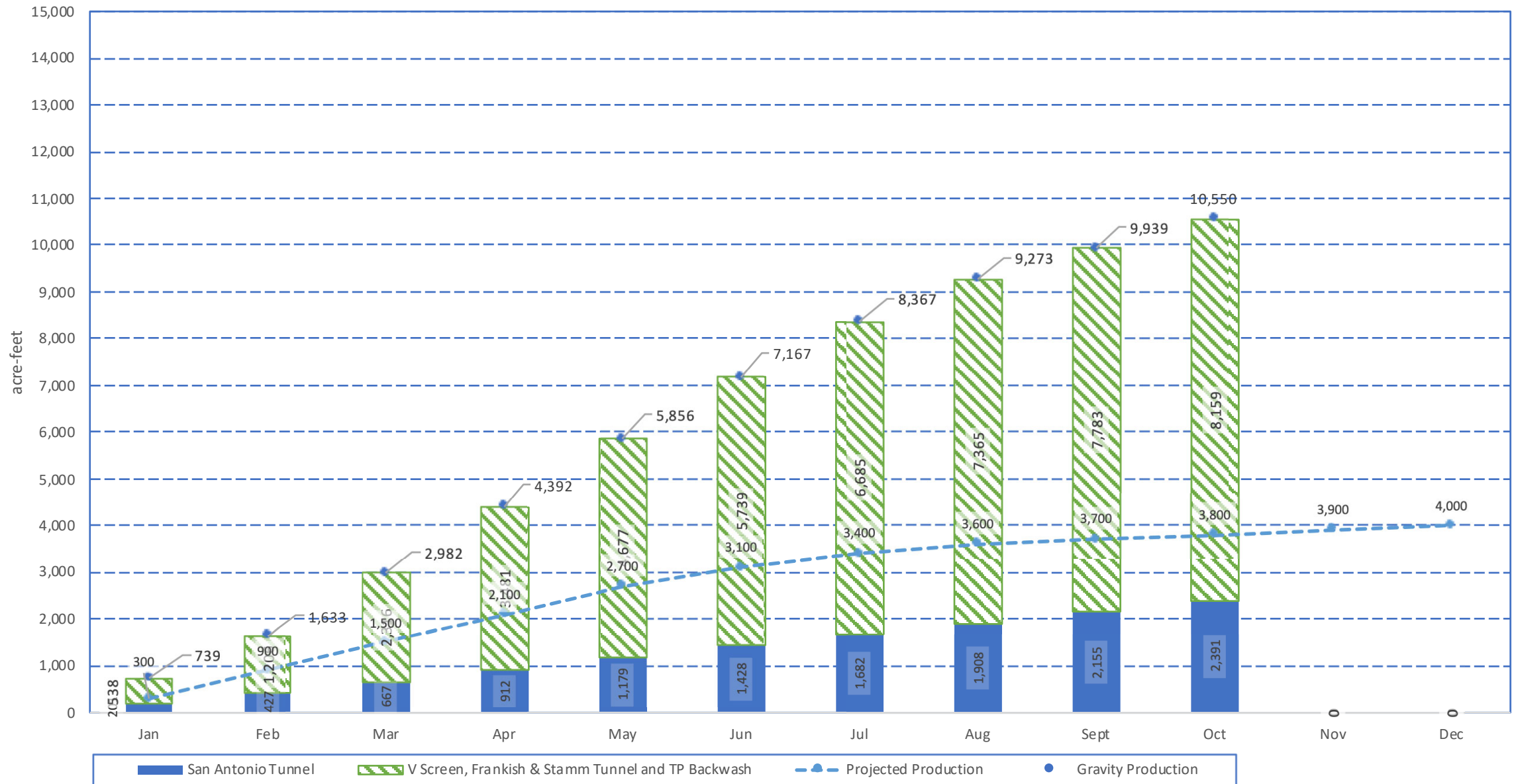
2024 Total Yearly Production



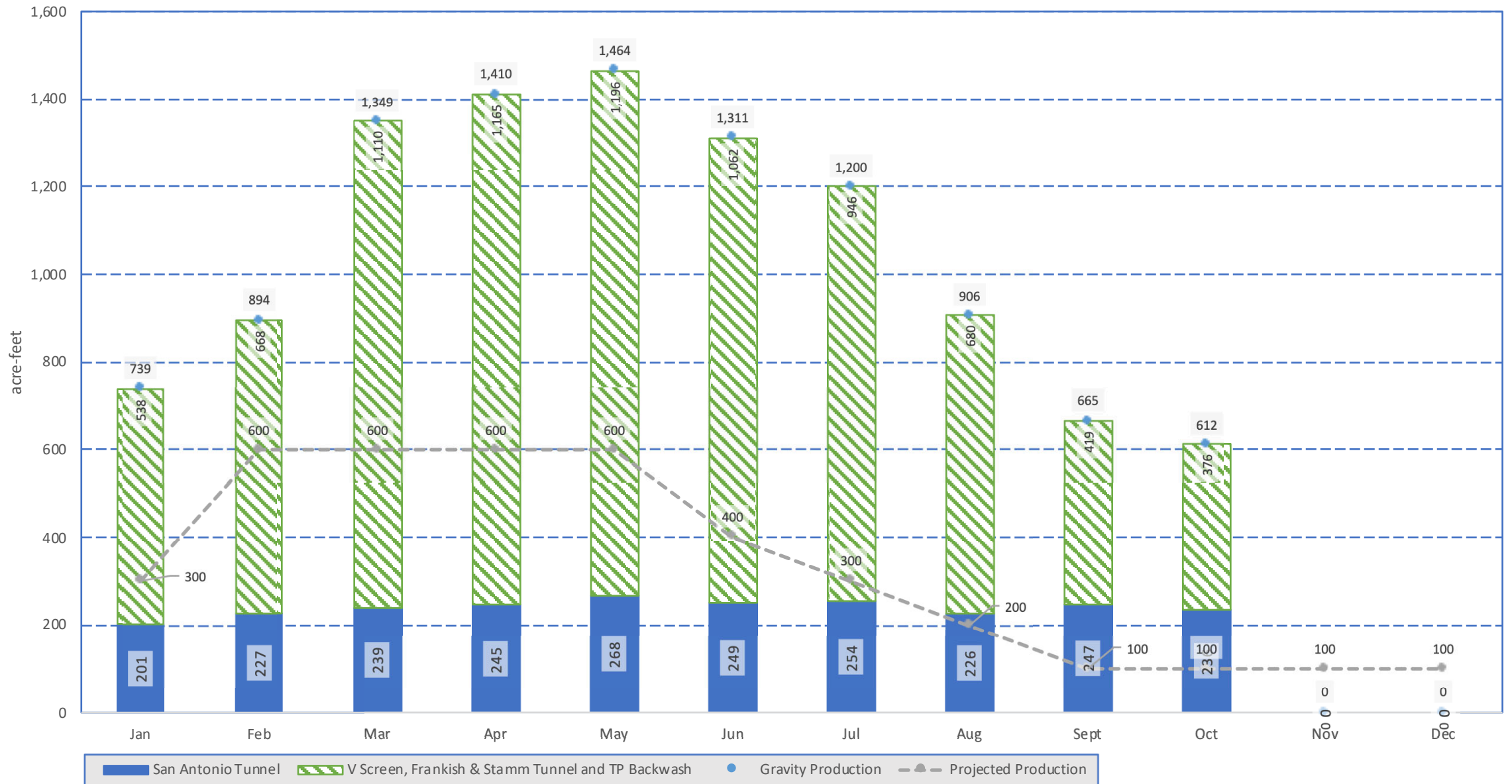
2024 Monthly Production



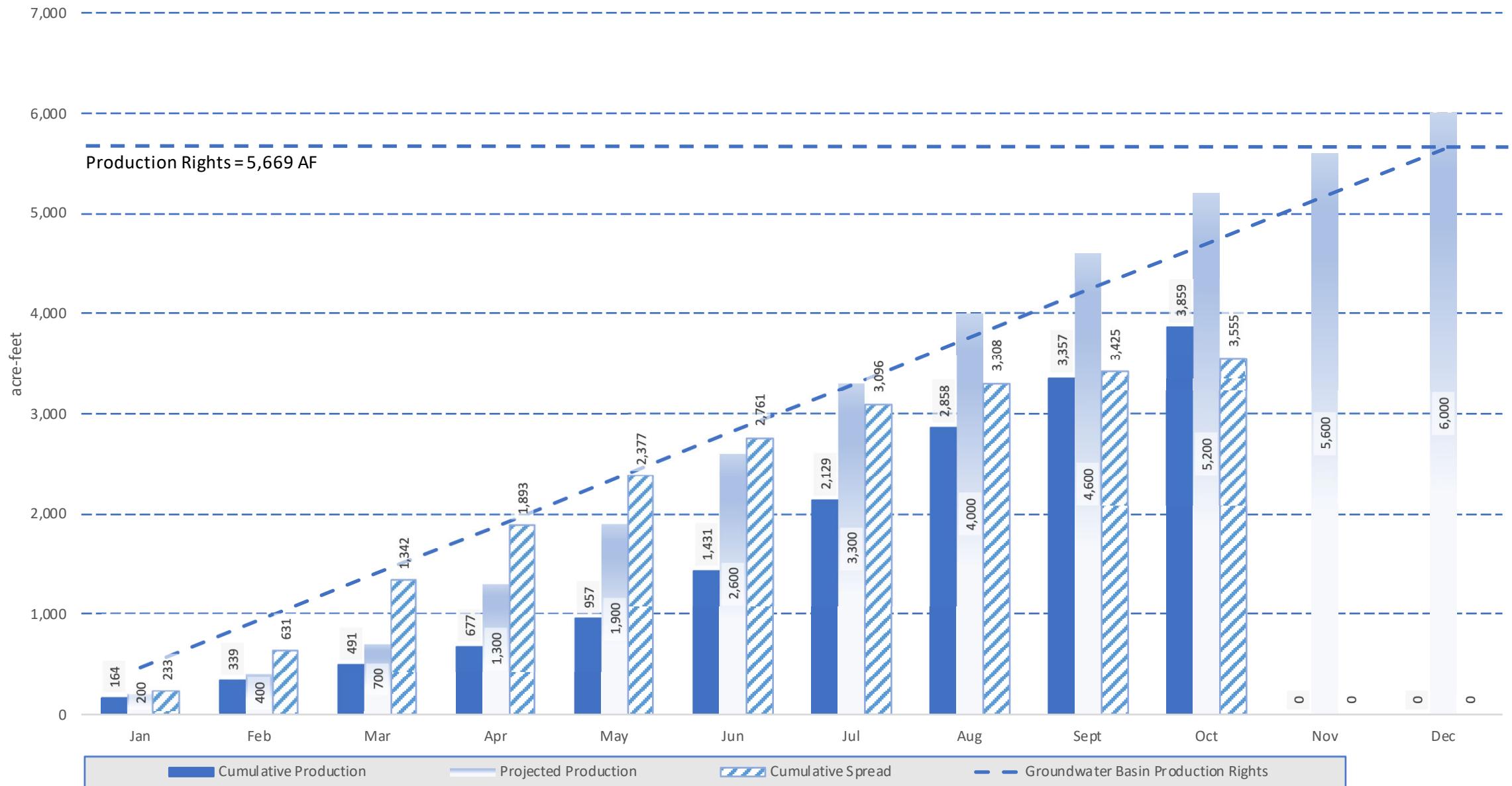
2024 Gravity Cumulative



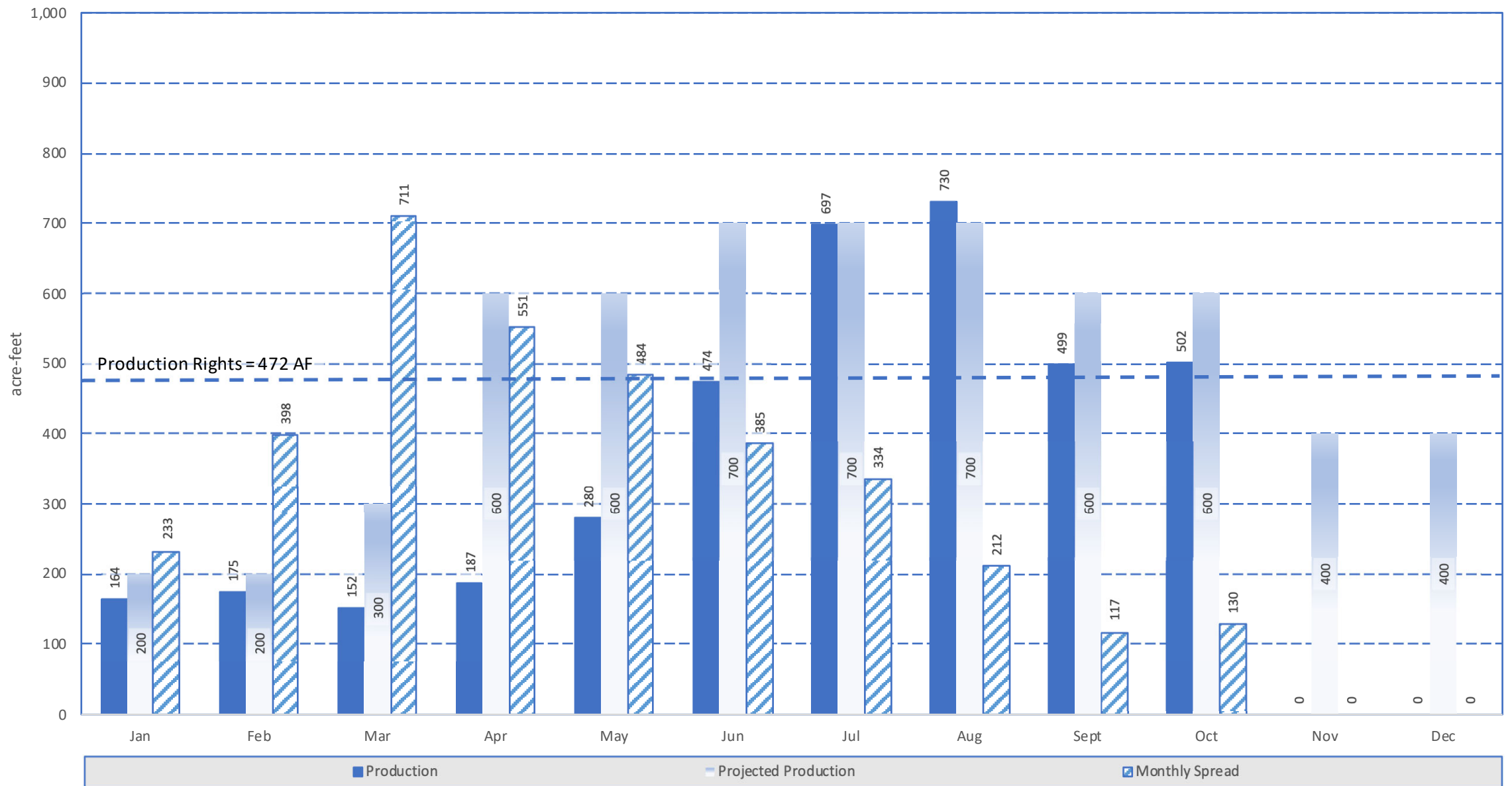
2024 Gravity Monthly



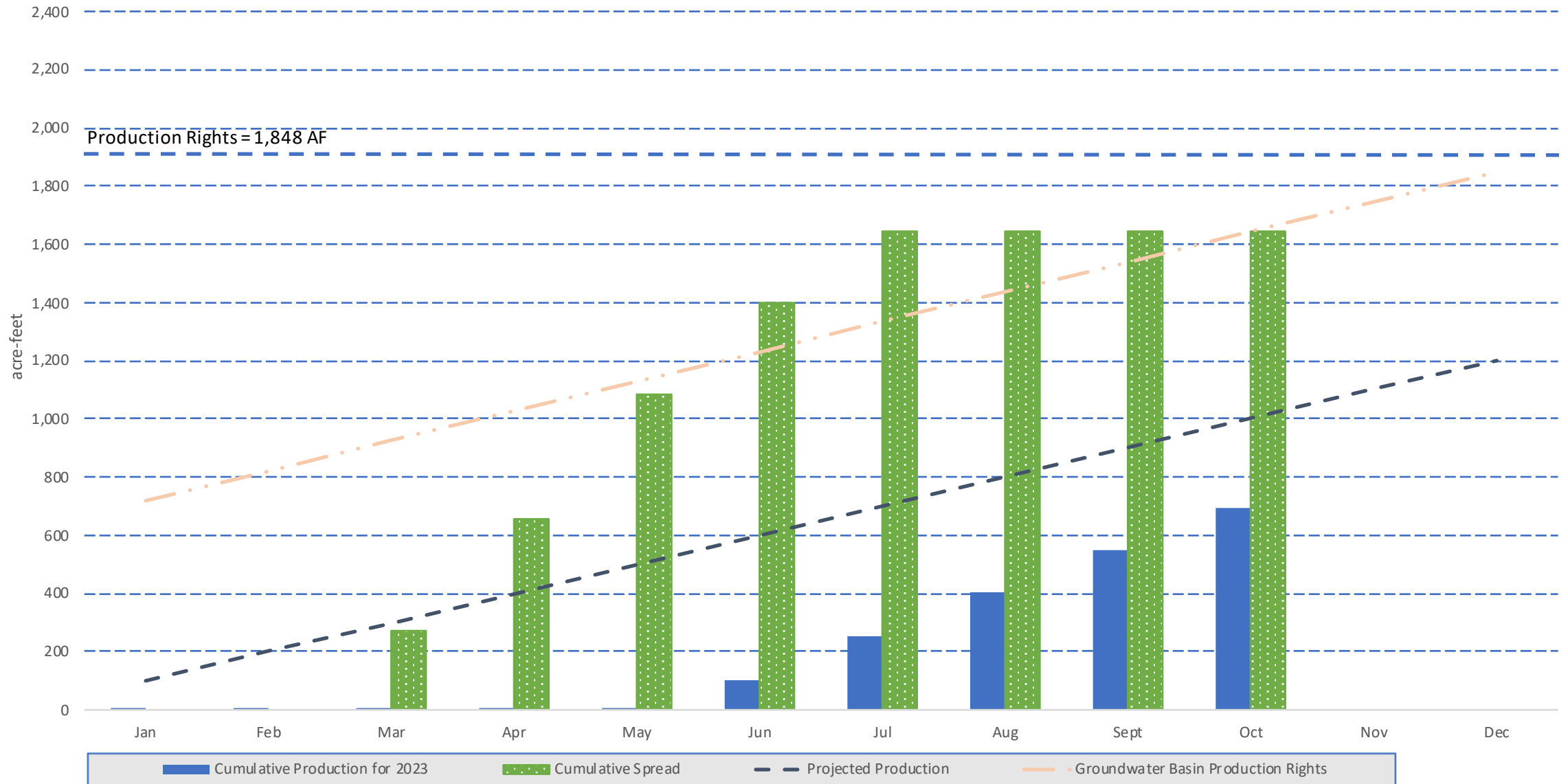
2024 Cucamonga Basin Cumulative



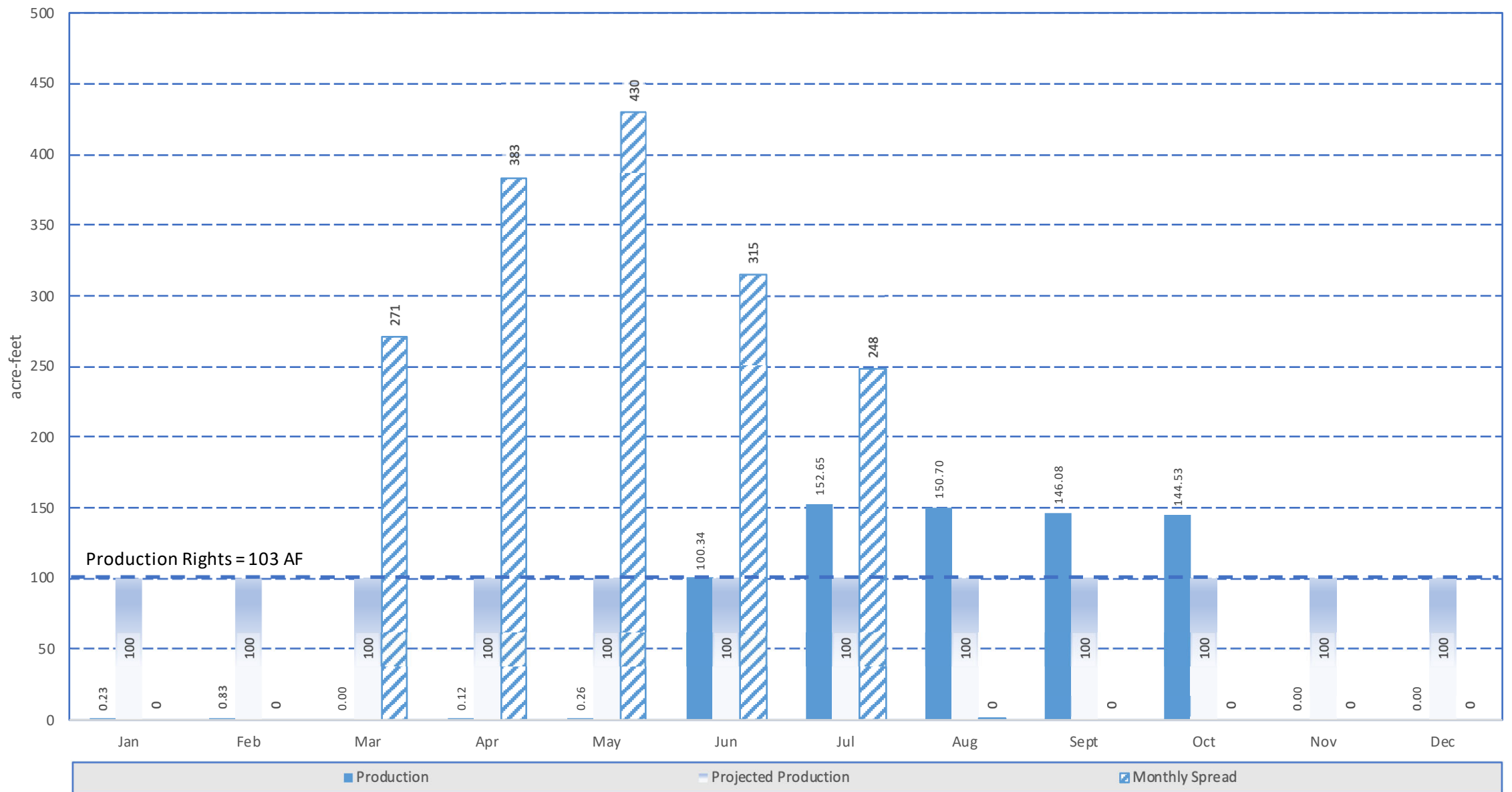
2024 Cucamonga Basin Monthly



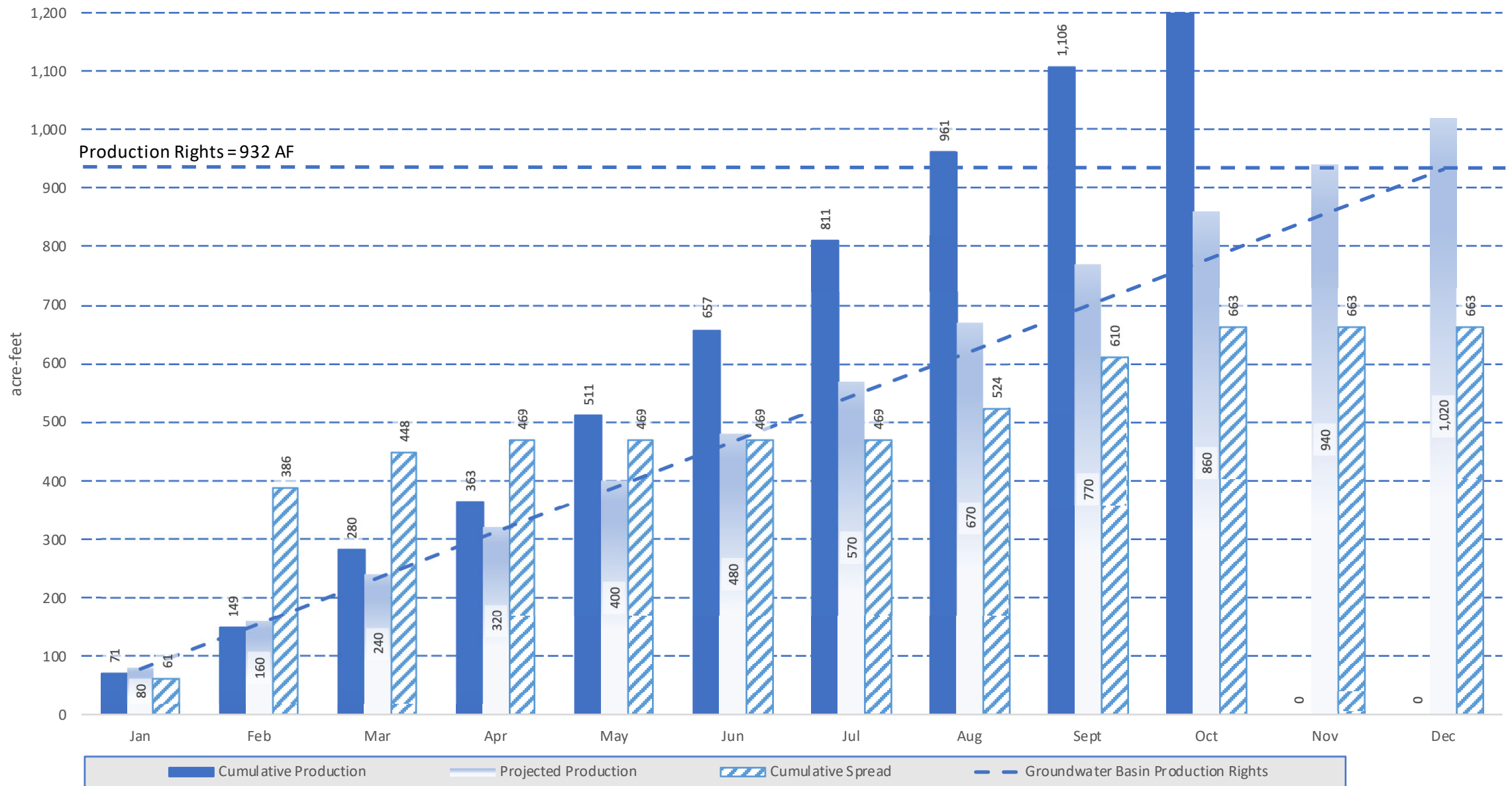
2024 Chino Basin Cumulative



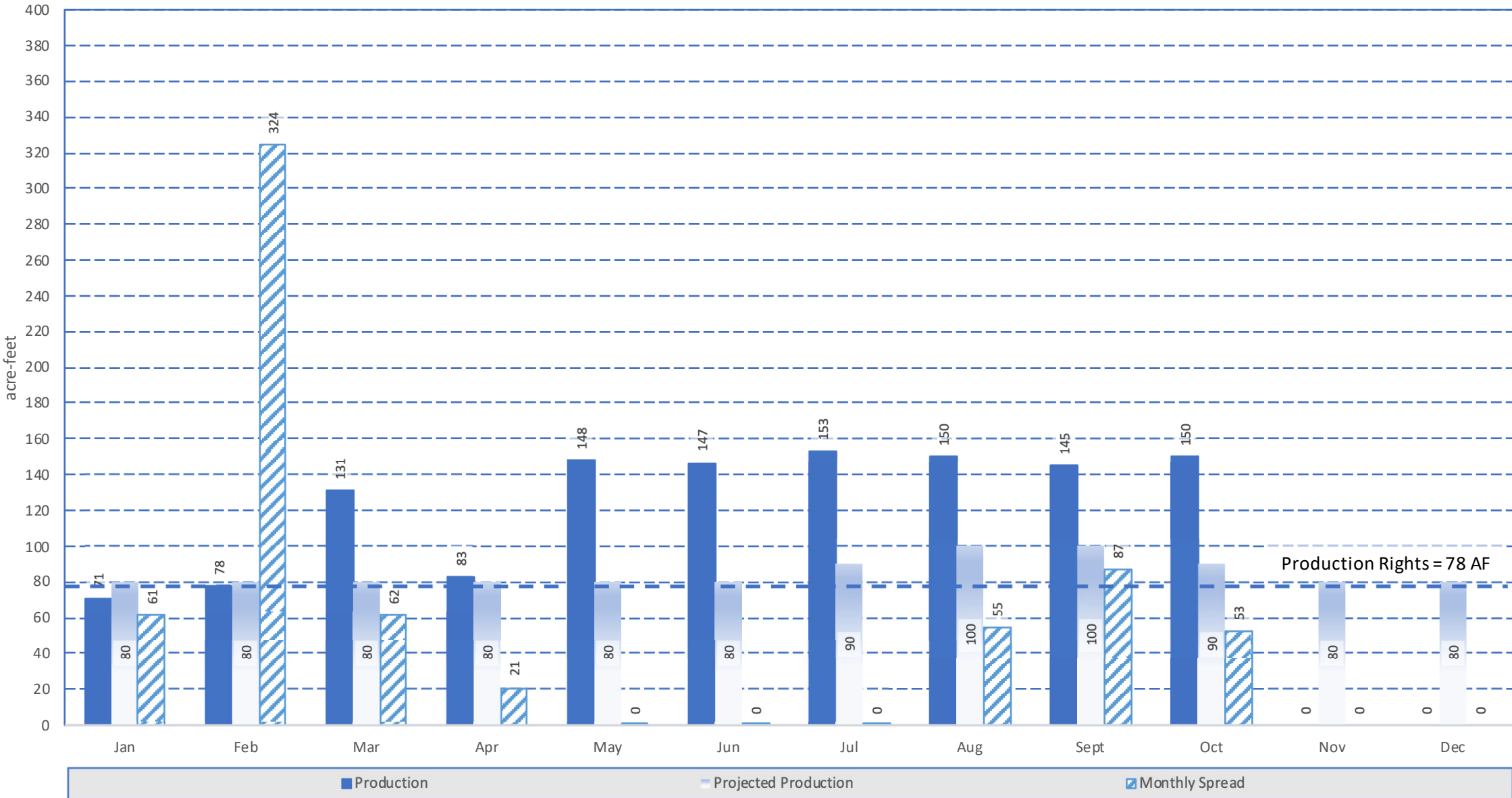
2024 Chino Basin Monthly



2024 Six Basins Cumulative



2024 Six Basins Monthly



- Water Supply through October 2024
 - Annual entitlement for CY2024 is 13,000 AF
 - Cumulative yearly production is 16,361 AF
 - Cumulative yearly consumption was 10,334 AF
 - Cumulative yearly spread was 5,864 AF
 - Cumulative unaccounted water was 163 AF

Six Basins Production for 2024

- Annual production right is 932 AF.
- Cumulative production is 1,256 AF.
Production is sent to the WFA treatment facility to meet City of Ontario and MVWD entitlement.
- The Company spread a total of 663 AF.

Cucamonga Basin Production for 2024

- Annual production right is 5,637 AF.
- Cumulative production was 3,859 AF.
- The Company spread a total of 3,555 AF.

Chino Basin Production for 2024

- Annual production right is 1,232 AF.
- Cumulative production was 696AF.
- The Company spread a total of 1,647 AF.

Surface Water (San Antonio Creek) flow for 2024

Total flow was 7,604 AF.

Tunnel flow for 2024

San Antonio Tunnel flow was 2,391 AF.
Frankish and Stamm Tunnel flow was 541 AF.

- Company Stock
 - Three-quarter (3/4) shares of water stock moved from active to dormant this transfer period.
 - One and one-half (1 1/2) shares of water stock moved from dormant to active this transfer period.
 - Stock auction held on November 12. One ¼-share auctioned. Five bids received.
 - \$17,995
 - \$11,500
 - \$11,011
 - \$10,500
 - \$10,101
- Communication and Information Activities
Quarterly Fall Newsletter was mailed via email to approximately 550 shareholders.
- Administration Matters
Meetings of interest:
 - Thu, Oct 17 – GM attended CBWM Advisory and AP Special Closed Session Meeting
 - Thu, Nov 14 – GM attended CBWM AP Meeting

• Upcoming Meetings of interest

- Thursday, November 21 – San Antonio Heights Association Annual Meeting (6:30 PM)
- Tuesday, November 24 – Propose canceling the AFC Meeting

- Monday, December 9 – Board Budget Workshop (10am) and Christmas Luncheon
- Friday, January 24 – Chino Basin Groundwater Management workshop hosted by Monte Vista Water District (10am)

- Groundwater Basin Matters

- Chino Basin -

- Safe Yield – CBWM has begun discussions on the court mandated 2025 safe yield reset. There were two workshops held in Aug. regarding calibration and uncertainty analysis. AP consultant is reviewing, discussing with AP and responding with comments. Currently looking at individual agency water plan scenarios. Next workshop tentatively scheduled for Nov 20. Date subject to change.

- Spread Water from SAWCo - Application to spread 2,500 AF per year for years 21/22 through 25/26 was approved by WM Board in July, 22. We started spreading water in January 2023.

- Legal Issues-

- AP Motion for Costs and Fees
 - Fully briefed. Next scheduled court date is Nov 8
 - Fiscal Year 21-22 and 22-23 Assessment Packages
 - Fully briefed. Tentative ruling by end of the year
 - Fiscal Year 22-23 Watermaster Budget Expense re CEQA
 - Tentative ruling upheld Judge's ruling in Watermaster's favor. Oral arguments likely in Nov-Dec
 - San Sevaine Basin
 - Storm water silt from upstream development. Notice has been sent to offending party for failure to meet Storm Water Pollution Prevention Plan (SWPPP) requirements. City of Fontana currently reluctant to act. Two legal actions possible; tort suite and/or Clean Water Act suite.

- Six Basins –

- October 23rd meeting discussion focused on high groundwater occurring in a retirement community constructed within a known ciénega (swamp).

- Cucamonga Basin –

- The November 4st meeting discussion focused on managing of Data Management System (DMS) going forward, cost sharing for past work and a grant possibility for stream gage improvements

Subject: Chino Basin Peace Agreement Meet and Confer Process - Invitation to Presentation/Discussion
Date: Tuesday, November 12, 2024 at 11:53:54 AM Pacific Standard Time
From: Justin Scott-Coe
To: Justin Scott-Coe
CC: Stephanie Reimer, Andrew Gagen
Attachments: image001.png, image002.png, image003.png, image004.png

Dear Regional Partners,

This email is being sent to the managers of the parties to the [Chino Basin Peace Agreement \(2000\)](#). The Peace Agreement is a consensus-based approach to managing the Chino Basin’s groundwater resources under the Superior Court’s continuing jurisdiction. For the past two-and-a-half decades, the Peace Agreement, as amended, has established the framework under which the Chino Basin Optimum Basin Management Program is implemented.

In the Peace Agreement, our respective agencies “agree to meet and confer during the 25th year of this Agreement to discuss any new or modified terms which may be requested or required by each Party in order to continue the term of this Agreement.” Additionally, two parties – the Overlying Agricultural Pool and the Appropriative Pool – each have an independent right to extend the Agreement for another 30-year term, but must decide to do so prior to the end of the 25th year. The 25th year of the Peace Agreement is 2025.

Monte Vista Water District (MVWD) values the consensus-based approach to managing our local water resources. In that spirit, and as an informal kick-off to the meet and confer process, we invite you all to an overview presentation and discussion on the Chino Basin’s groundwater management agreements and Court orders. Please see below for a list of Peace Agreement parties. All party representatives – board/council members, staff, legal counsels, consultants – as well as Watermaster representatives and others are welcome to attend. Meanwhile, MVWD’s Legal Counsel will be reaching out to your respective legal representatives with an invitation to coordinate on the formal meet and confer process under the Peace Agreement.

What: Chino Basin Groundwater Management, or “The Law of the Basin” – overview presentation and discussion

I. Elements

II. Development

III. What Happens After 2030?

Where: Chino Basin Water Conservation District, 4594 San Bernardino Street, Montclair

When: Friday, January 24, 2025, 10am – 12pm (lunch served after)

RSVP: Brandi Goodman-Decoud, bgdecoud@mvwd.org (no later than COB January 20th if you plan to stay for lunch)

FYI, the following is a list of Peace Agreement parties (in alphabetical order):

- Appropriative Pool
- Chino Basin Water Conservation District

- City of Chino
- City of Chino Hills
- City of Ontario
- City of Pomona
- City of Upland
- Cucamonga Valley Water District
- Fontana Union Water Company
- Inland Empire Utilities Agency
- Jurupa Community Services District
- Monte Vista Water District
- Overlying Agricultural Pool
- Overlying Non-Agricultural Pool
- San Antonio Water Company
- State of California
- Three Valleys Municipal Water District
- Western Municipal Water District

Thank you!

Best,
Justin



Justin Scott-Coe, PhD, CSDM
General Manager
Monte Vista Water District
O: 909.267.2125 | C: 909.238.6199



Agenda Item No. 4I

Item Title: Projects and Operations Update

Purpose:

To update the Board and Shareholders on Company capital projects.

Updates:

1507 – Office Relocation

The Board approved a design and construction management contract at its March 2023 regular meeting. Contract has been executed and Architect is currently working on plans. Consultant has started discussions with Edison regarding eastern easement onto property. Company hired a CEQA consultant in May 2024. Architect hired civil engineering, geotechnical and survey subconsultants in May 2024.

~~Project CEQA Description has been completed. Traffic Survey workplan has been approved by the City of Upland. Notices to interested tribal organizations have been mailed out. Company is planning to submit application package to the City of Upland this week or next. Planning package has been submitted to the City of Upland to begin the Zone Change process. Architect is engages with SCE to solidify access across their property.~~

Original Budget.....	\$4,000,000
Original Contracts	\$283,550
New Contracts or	
Authorized Change Orders	\$163,550
Current Contracts	\$447,100

1902 – Cucamonga Crosswalls Mitigation

TKE Engineering is working with staff to close out certain State and Federal Permits. Staff is also looking into long-term maintenance permits that will allow the Company yearly access to the site for clearing and grubbing.

2201 Paloma Hydraulic Break

Predesign meeting was held in June and consultant is working on a predesign report. Survey has been completed and predesign work is ongoing. Engineer is currently reviewing elevations and flow to determine best solution. Predesign meeting held to discuss difficulty in controlling flow at such high static head. Options were discussed and engineer is reviewing.

Original Predesign Budget	\$40,000
Original Design/Const. Budget.....	\$1,080,000
Original Contracts	\$39,750
Authorized Change Orders.....	NA
Current Contracts	\$39,750

2203 Well 31 Pipeline

Project budgeted in the 2022 year. Replace approximately 1,400 linear feet of 14” pipeline from Well 31 delivering water to facilities at Golf Club Drive along backside of homes and within Upland Hills Country Club waterline easement. Abandon aged

pipeline. The current steel pipeline was installed before 1976 and has exceeded its useful life. Identified by staff as a high maintenance pipeline. Design contract has been awarded to TKE Engineering. ~~Project is currently out to bid. Prebid job walk scheduled for October 23. Bid opening scheduled for October 31. Bids will be presented at the November Board Meeting for award consideration.~~ Project is on tonight's agenda for possible award of construction contract.

Original Budget	\$420,000
Original Contracts	<u>\$86,500</u>
Authorized Change Orders.....	NA
Current Contracts	<u>\$86,500</u>

2204 GIS Update

At the August Special Meeting, the Board authorized a contract with WSC to update the Company's GIS maps. Contract has been executed. Consultant working on updates. WSC conducted training and system review with staff in May. Staff is providing field updates into the GIS system for consultant to correct on a quarterly/half year basis. Staff has executed a change order extending GIS services for another year.

Original Budget	\$11,110
Original Contracts	\$11,110
Authorized Change Orders.....	<u>\$6,221</u>
Current Contracts	<u>\$17,331</u>

Rate Study - 2025

Staff prepared and AFC approved release of a Rate Study Request for Proposals (RFP). It has been over six years since the Company has reviewed it's rates and charges. ~~Staff has sent the RFP to four select firms: Carollo, NBS, Raftelis and Willdan. Project is scheduled for discussion at tonight's meeting. Contract was awarded to Willdan at the October 2024 Board Meeting. Contract has been executed and kick-off meeting is scheduled for this week.~~

Original Budget	<u>\$34,000</u>
Original Contracts	<u>\$34,000</u>
Authorized Change Orders.....	NA
Current Contracts	<u>\$34,000</u>

Item Title: 139 N. Euclid Homeless Issue

Purpose:

To review solutions to deter camping in front of the office.

Issue:

What can the company do to deter overnight camping on our Euclid Avenue property?

Manager's Recommendation:

Authorize the General Manager to sign a not-to-exceed \$22,000 contract for construction of a picket iron fence along the setback line of the front property of Euclid Avenue.

Background:

For a number of years the company has had homeless individuals camping overnight in the planters at the front of the Euclid office building. This presents a safety issue for company staff. Overnight campers have left trash, feces and drug paraphernalia, including sharps (needles) scattered on Company property. We even recently had an individual enter the office during business hours, causing office staff stress and concern.

Staff believes the largest issue is the planter area set back from Euclid Avenue that provides an inviting semblance of seclusion. Staff has been discussion alternate solutions internally. The most successful solution would be to construct a picket iron fence along the 20 foot setback limit of Euclid Avenue. Staff obtained quotes for three options:

- Option 1: fence installed at planter
- Option 2: fence installed midpoint of front yard
- Option 3: fence installed at sidewalk.

City of Upland code does not allow six foot fences at the sidewalk. There is a 20 foot setback requirement. Therefore, staff is proposing to have a fence installed 'midway' (option 2), behind the lemon tree but in front of the ramp and stairway. Gates would be installed at the walkway and ramp.

Impact on the Budget:

\$22,000 contract for fence installation.

Previous Actions:

None.

Fence Craft

OF UPLAND, INC.

(909) 981-7095 • (800) 974-2551 • Fax (909) 949-6273

1801 West 11th St.

Upland, CA 91786

CA State Contractor's License #220653

--	--

Tommyh@SAwaterco.com
Blee@SAwaterco.com

Tommy

10-9-2024

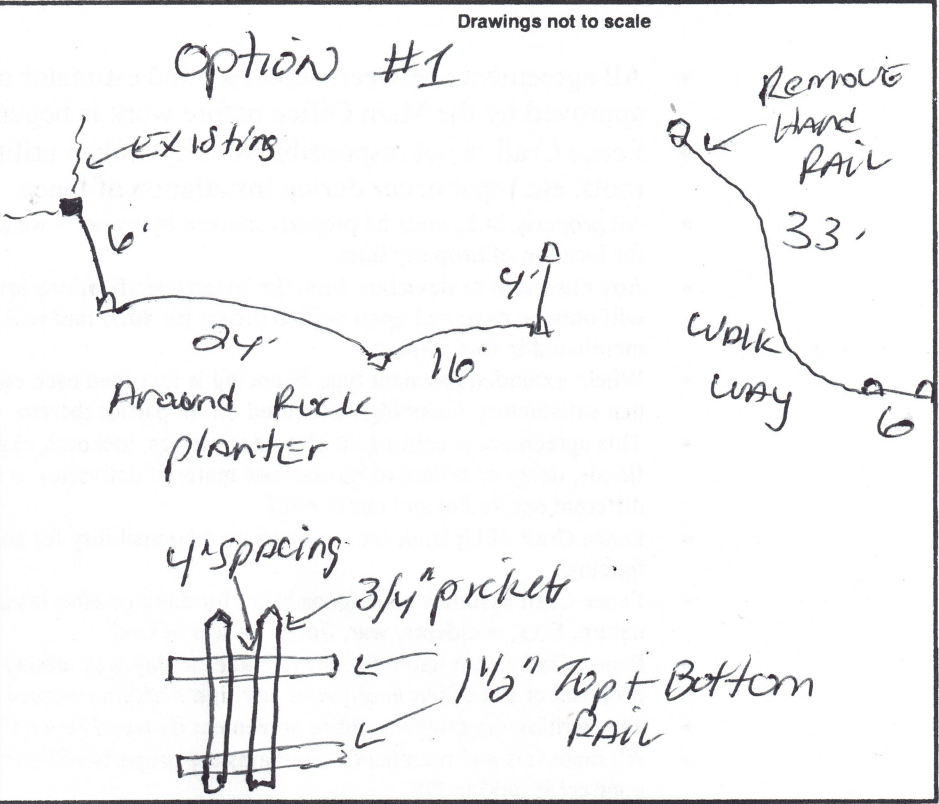
Proposal to: San Antonio Water Phone: 909-215-2403 Alt. Phone _____

Address: _____

Job Address & Directions: 139 N. Euclid Ave Upland CA 91786

We propose to furnish labor & materials Materials only

Type of terrain					
(Circle) LEVEL <u>EARTH</u> HILL ASPHALT <u>CONCRETE</u> ROCK _____					
Type of obstr.					
(Circle) Old fence fgt Trees Branches Shrubs _____					
Who moves obstructions? _____					
Special equipment necessary? _____					
Chain Link <u>Red Brick color Iron</u>					
height	<u>6'</u>	amt.	<u>39'</u>	height	amt.
height		amt.		height	amt.
knuckles	up	down	style	<u>Straight</u>	
line post	size	type	gate	gate	
terminal	size	type	gate		
gate post	size	type	post type	<u>2" x 2"</u>	
top rail	size	type	face	in	out alter.
gate	frame size	wheel type			
Safety Issues and Concerns					



Job Description: Remove And HAUL AWAY Approx 39' of existing Hand RAIL by walk way
Install 39' of 6' tall Redbrick in color Straight picket Iron fence, on 2" x 2" Square post, 1 1/2 Top + Bottom Rails, 3/4" pickets, 4" spacing

\$ 18,487.38

All of the above work is to be completed in a substantial and workmanlike manner according to standard practices.

*By signing this proposal the purchaser agrees that he/she has read and agrees with all terms outlined on both front and back of this contract.

Acceptance: This proposal upon acceptance this _____ day of _____, 20____ becomes a contract between the two parties whose signatures appear below.

This proposal is valid for 15 days & subject to quote thereafter.

*Accepted by: _____ Buyer

Payment in full is due at completion on job. Job must be executed within 90 days of signature.

MAO
Fence Consultant, Fence Craft of Upland, Inc.

Fence Craft

OF UPLAND, INC.

(909) 981-7095 • (800) 974-2551 • Fax (909) 949-6273

1801 West 11th St.

Upland, CA 91786

CA State Contractor's License #220653

--	--

Tommy

10-9

2024

Proposal to: San Antonio Water Phone: 909-215-2403 Alt. Phone: _____

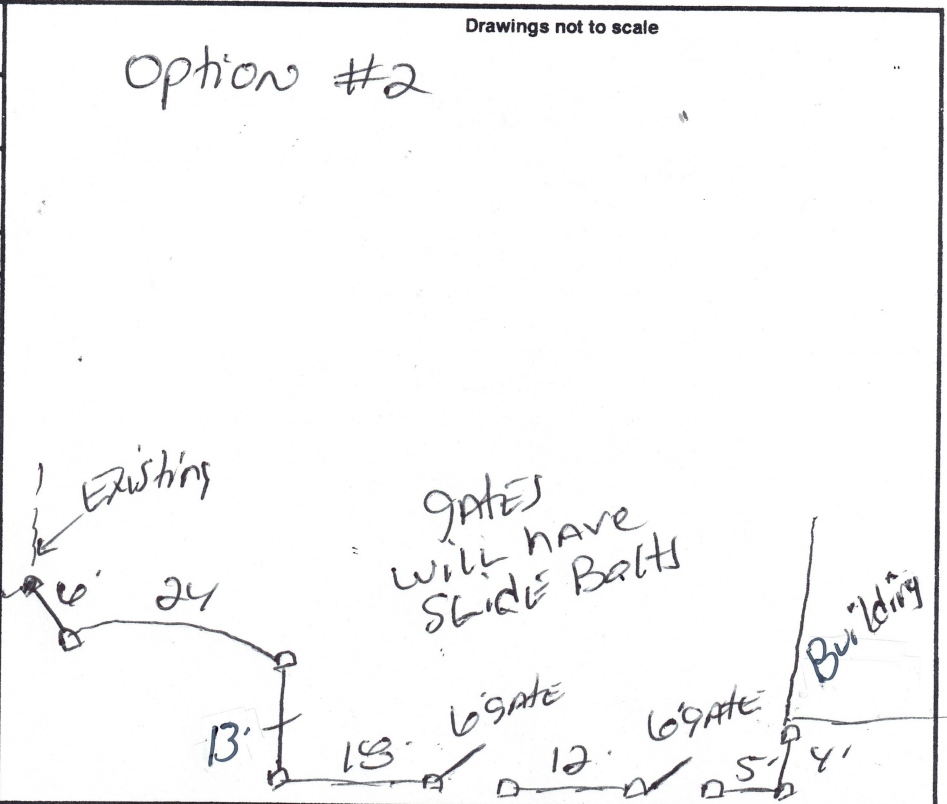
Address: _____

Job Address & Directions: 139 N. Euclid Ave Upland CA 91786

We propose to furnish labor & materials

Materials only

Type of terrain					
(Circle) LEVEL <u>EARTH</u> HILL ASPHALT CONCRETE ROCK _____					
Type of obstr.					
(Circle) Old fence ftg <u>Trees</u> Branches Shrubs _____					
Who moves obstructions? _____					
Special equipment necessary? _____					
Chain Link <u>Redbrick in color Iron</u>					
height	6'	amt.	94'	height	amt.
height		amt.		height	amt.
knuckles	up	down	style	<u>STRAIGHT</u>	
line post	size	type	gate	gate	
terminal	size	type	gate	2	6'x6'
gate post	size	type	post type	<u>2"x2"</u>	
top rail	size	type	face	in	out alter.
gate	frame size	wheel type			



Safety Issues and Concerns

Job Description: Install 94' of 6' tall Redbrick in color Straight Picket Iron fence Inc 2-gates on 2"x2" square posts, 1 1/2" Top + Bottom rails, 3/4" pickets, 4" spacing

\$ 21,883.32

All of the above work is to be completed in a substantial and workmanlike manner according to standard practices.

*By signing this proposal the purchaser agrees that he/she has read and agrees with all terms outlined on both front and back of this contract.

Acceptance: This proposal upon acceptance this _____ day of _____, 20____ becomes a contract between the two parties whose signatures appear below.

This proposal is valid for 15 days & subject to quote thereafter.

*Accepted by: _____
Buyer

Payment in full is due at completion on job. Job must be executed within 90 days of signature.

MARCO AT
Fence Consultant, Fence Craft of Upland, Inc.

Fence Craft

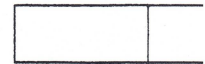
OF UPLAND, INC.

(909) 981-7095 • (800) 974-2551 • Fax (909) 949-6273

1801 West 11th St.

Upland, CA 91786

CA State Contractor's License #220653



Tommy

10-9

Proposal to: San Antonio Water

Phone: 909-215-2403 Alt. Phone _____

Address: _____

Job Address & Directions: 139 N. Euclid Ave Upland CA 91786

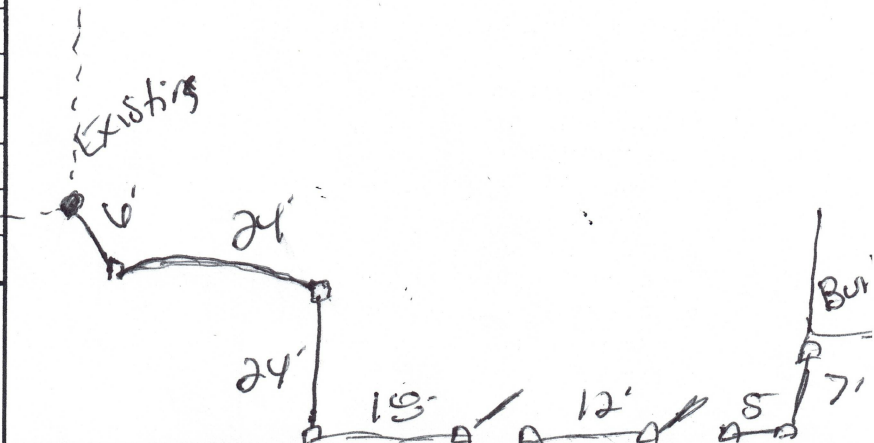
We propose to furnish labor & materials

Materials only

Type of terrain (Circle) LEVEL <u>(EARTH)</u> HILL ASPHALT CONCRETE ROCK _____					
Type of obstr. (Circle) Old fence ftg <u>(Trees)</u> Branches Shrubs _____					
Who moves obstructions? _____					
Special equipment necessary? _____					
Chain Link <u>Redbrick in color Iron</u>					
height	<u>6'</u>	amt.	<u>100</u>	height	amt.
height		amt.		height	amt.
knuckles	up	down	style	<u>straight</u>	
line post	size	type	gate	gate	
terminal	size	type	gate	<u>2- 6' x 6'</u>	
gate post	size	type	post type	<u>2" x 2"</u>	
top rail	size	type	face	in	out
gate	frame size	wheel type	alter.		

Drawings not to scale

Option #3



Job Description: Install 94' of 6' tall Redbrick in color straight Picket Iron fence, Inc 2 gates, on 2" x 2" square posts 1 1/2" Top + Bottom Rails, 3/4" pickets, 4" spacing

\$ 22,848.27

All of the above work is to be completed in a substantial and workmanlike manner according to standard practices.

*By signing this proposal the purchaser agrees that he/she has read and agrees with all terms outlined on both front and back of this contract.

Acceptance: This proposal upon acceptance this _____ day of _____, 20____ becomes a contract between the two parties whose signatures appear below

This proposal is valid for 15 days

& subject to quote thereafter.

*Accepted by: _____

Buyer

Payment in full is due at completion on job.

Job must be executed within 90 days of signature.

MARCO
Fence Consultant, Fence Craft of Upland, Inc

Item Title: Annual Review of Employee Health and Welfare Benefits

Purpose:

To review employee health, dental, vision, life and death & dismemberment insurance coverage and premiums for the upcoming 2025 fiscal year.

Issue:

Should the Company maintain its current employee health and welfare benefits package?

Manager's Recommendation:

That the Board maintain the Company's current employee health and welfare benefits package.

Background:

The Company offers full time and regular part-time employees health and welfare benefits for the employee and their dependents.

- Health Insurance

Attached to this report is the upcoming renewal for HealthNet. Our current plan is 'grandfathered', avoiding many of the Affordable Health Care Act mandates. The HealthNet premium is scheduled to increase 5.26% starting January 2025. For the 2024 fiscal year the premium for employee health insurance was \$151,564 per year. For the 2025 fiscal year the premium for employee health insurance is proposed to be \$159,530.

- Life, Dental and Vision

Attached to this report is the upcoming renewal for Principal. There are no rate changes for AD&D, Vision or Group Term Life Insurance. Dental premiums are increasing 6.5%. For the 2025 fiscal year the premium employee life, dental and vision was \$16,584.00. For the 2025 fiscal year the premium for employee life, dental and vision is proposed to be \$18,978.

Impact on the Budget:

If health benefits are approved tonight, for the 2025 fiscal year the company's initial draft budget will include \$179,000 for health, dental, vision and life insurance benefits.

Previous Actions:

None.



Health Net

Small Business Group

STANDARD PROPOSAL

Prepared for

SAN ANTONIO WATER COMPANY

Effective date: 01/01/2025

Quote date: 10/11/2024

Case ID: 108981

Quote number: 546381-01

Presented by:

Producer: Health Net Broker Agency

Agency: JLR AGENCY AND INSURANCE SOLUTION INC

Address: 130 S Chaparral Court

Suite 215

Anaheim CA 92807

Work: (714) 997-4944

Fax: (714) 997-4901

General Agency: WORD & BROWN, INSURANCE ADMINISTRATORS, INC.

Sales Representative: Gregory Voorhees

Work: (800)447-8812



Health Net of California, Inc.
Health Net Life Insurance Company
SBG Account Management
CA21281-02-502
PO Box 9103
Van Nuys, CA 91409-9103

SAN ANTONIO WATER COMPANY
139 N EUCLID AVE
UPLAND CA 91786

10/11/2024
Policyholder ID:
108981

Renew your group coverage for 2025

Dear TERI LAYTON,

It's time to renew your small business group (SBG) coverage or designate your new coverage with Health Net of California, Inc. (Health Net). This year, you can once again choose Health Net for your coverage needs, whether medical, dental, vision, or life!¹ Keep your employees and your business healthy with these small business-focused plans.

Your premium for 2025 and choices for 2025

There is a change to your monthly premium rates, effective 01/01/2025. The amounts shown below are based on your current plan(s). If you have one or more plans that are closing or changing for the upcoming year, the premium below is for the most similar plan(s).

Current monthly premium: **\$12,630.33**

Renewal monthly premium: **\$13,294.14**

*Premium change: **\$663.81***

*Percent change: **5.26%***

Rate changes are driven by increases in provider reimbursement, increased costs attributable to the use of medical technologies and prescription drugs, and other factors that impact cost such as Affordable Care Act (ACA) provisions. These include modified underwriting and rating rules for children under the age of 21, requirements for minimum Essential Health Benefits, and the addition of certain taxes and fees.

CASBG RENEWAL LTR2025

Page 1 of 5

Your renewals made easy – Take action now

1. Review the enclosed materials. You'll find everything you need to renew or select a new plan!
 - Custom renewal or new plan quote.
 - Census listing all covered employees.
 - Renewal Guide with details about our 2025 plans and any benefit changes. Please use this guide to find your perfect fit for 2025.

You'll also find information about buying coverage through Covered California. The Centers for Medicare & Medicaid Services (CMS) requires that we send employer groups this information.

2. Talk with your broker or give me a call to discuss your options and find your best fit for the coming year.
3. Let Health Net know your plan choice after you've made your decision. If we do not hear from you prior to the effective date, we will automatically renew your group in the same plan, if available, or the most similar plan. Plan change requests received after the effective date could slow the delivery of ID cards and impact billing accuracy.
4. Your Employer Group Size Verification form must reflect any changes occurring during the calendar year that could impact your employer size determination related to Medicare Secondary Payer or Health Care Reform.

Check out our full plan portfolio!

Find options that can lower your premium rates. Plus, our Enhanced Choice option lets you define your contribution costs and give your employees multiple choices.

More helpful information:

- **Summary of Benefits and Coverage (SBC) Documents.** Visit www.healthnet.com/sbc to find a copy of your SBCs, along with distribution instructions. To comply with federal mandates, you are required to distribute electronic or printed copies of the SBC documents to all eligible and covered plan participants.
- **The Affordable Care Act and You.** Visit Health Net's ACA Information Center at www.healthnet.com/employer/reformguide for a high-level overview of the key reform provisions, including those that have a financial impact.

Your partner for a smooth renewal

Renewing your group coverage or selecting new coverage can be a positive experience – that’s why I’m here! Please give me a call at (800)447-8812, or send an email to Gregory.Voorhees@healthnet.com.

On behalf of everyone at Health Net, thank you for making us part of your health coverage team. We’re proud to support the health of your employees and your business. We look forward to continuing our partnership for the coming year.

Sincerely,

Gregory Voorhees

Account Manager

License number #4024942

Enclosures

cc: JLR AGENCY AND INSURANCE SOLUTION INC

¹ Vision and Life/AD&D insurance plans are underwritten by Health Net Life Insurance Company.

Health Net HMO, PPO and Salud con Health Net HMO y Más plans are offered by Health Net of California, Inc. Vision plans, other than pediatric vision, and Life/AD&D insurance plans are underwritten by Health Net Life Insurance Company. Health Net Dental HMO and PPO plans, other than pediatric dental, are offered and serviced by Dental Benefit Providers of California, Inc. (DBP). Obligations of DBP are neither the obligations of, nor guaranteed by, Health Net, LLC. or its affiliates. Health Net of California, Inc. and Health Net Life Insurance Company are subsidiaries of Health Net, LLC and Centene Corporation. Health Net and Salud con Health Net are registered service marks of Health Net, LLC. All other identified trademarks/service marks remain the property of their respective companies. All rights reserved.



Health Net of California, Inc.
Health Net Life Insurance Company
SBG Account Management: CA21281-02-502
PO Box 9103
Van Nuys, CA 91409-9103

**Important: We're continuing to offer your group health coverage.
It's time to renew!**

Dear Group Administrator,

Your group health insurance coverage is coming up for renewal. **On 01/01/2025, your group members will be automatically re-enrolled and can keep your group's current coverage.** Below are changes we'll be making to the plan and options to consider to possibly lower your costs or choose a new plan.

Changes we're making to your group's current coverage

- Premium – Your new premium starts in January 2025. Your plan and estimated monthly premium are shown in the enclosed Renewal Comparison page. This is an estimate based on current enrollment. This amount may change depending on the individuals who actually enroll in the plan.
- See your Renewal Guide for 2025 benefits.

What if I want to change plans?

- You can choose any of our other small group plans. Call 1-800-447-8812, opt 2, or visit www.healthnet.com to learn about plans available to you. Or you may work with your agent or broker to select another Health Net plan.
- You can choose to buy a new health plan directly from any insurance company or with the help of an agent or broker.

Small employer tax credit

If you have fewer than 25 full-time equivalent employees, you might qualify for a small business health care tax credit. For more information, visit CoveredCA.com or call 1-844-332-8384.

Your tax consultant can determine whether your business qualifies for the small business health care tax credit and the amount you are entitled to be credited.

(continued)

When do I need to make a decision?

You generally can buy coverage any time. If group members enroll by the 15th of the month, coverage can begin on the 1st of the following month. If we do not hear from you prior to the effective date, we will automatically renew your group in the same plan, if available, or the most similar plan.

What else should I look at before deciding to keep or change my plan?

Call or visit the plan's website to check which doctors, other health care providers and prescription medications are covered by the plan. This is an important step when choosing a plan that meets the needs of your group members.

Questions?

Please contact your agent, broker, or Health Net account manager for any questions that you may have.

Getting help in other languages

Para recibir ayuda en español, llame al 1-800-447-8812 y un intérprete le asistirá con este aviso sin ningún costo.

如需中文協助，請致電 1-800-447-8812，將有口譯員會免費協助您處理本通知相關事宜。

한국어 도움을 받기 원하시면 1-800-447-8812 번으로 문의해 주십시오. 본 통지서에 대해 통역사가 무료로 도움을 드릴 것입니다.

Sincerely,

Gregory Voorhees

Account Manager

License number #4024942

¹ Vision and Life/AD&D insurance plans are underwritten by Health Net Life Insurance Company.

Health Net HMO, PPO and Salud con Health Net HMO y Más plans are offered by Health Net of California, Inc. Vision plans, other than pediatric vision, and Life/AD&D insurance plans are underwritten by Health Net Life Insurance Company. Health Net Dental HMO and PPO plans, other than pediatric dental, are offered and serviced by Dental Benefit Providers of California, Inc. (DBP). Obligations of DBP are neither the obligations of, nor guaranteed by, Health Net, LLC. or its affiliates. Health Net of California, Inc. and Health Net Life Insurance Company are subsidiaries of Health Net, LLC and Centene Corporation. Health Net and Salud con Health Net are registered service marks of Health Net, LLC. All other identified trademarks/service marks remain the property of their respective companies. All rights reserved.



Renewal Proposal

Employer Demographics

Employer Zip Code, County: 91786, San Bernardino
 Worldwide Employee Count: -
 Quoted Subscribers: 9
 Quoted Members: 19

Tax Identification Number: 951183990
 Waiting Period: FOMF 1 month
 SIC Code: 4941
 Current RAF: 1.05
 Renewal RAF: 1.05

Renewal Premium Summary

	Current Premium		Renewal Premium	% Change
Medical Premium	\$12,630.33	Medical Premium	\$13,294.14	5.26%
Total Monthly Premium	\$12,630.33	Total Monthly Premium	\$13,294.14	5.26%

Please note that COBRA rates do not include administrative fees.
 Grandfathered (GF) plans remain rated based on Employee Zip Code.
 Non-Grandfathered (NG) plan rates include the cost of coverage for mandatory pediatric dental and vision.
 RAF only applies to Grandfathered (GF) Plans.
 Non-Grandfathered (NG) plans are rated based on Employer zip code.
 The premium rates quoted are subject to change.

Medical Renewal

Enrollment			
Quoted Plan	Employees	Dependents	Premium
HMO 10 Standard GF	4	0	\$3,998.17
HMO 20 Value GF	5	10	\$9,295.97

Benefits								
Quoted Plan	Network	Annual Deductible Single/Family	Office Visit PCP Specialist	Inpatient Hospital	Emergency Room	Urgent Care	OOPM Single/Family	Rx Ded T1 T2 T3 SP
HMO 10 Standard GF	In-Network	\$0/\$0	\$10 \$10	\$0	\$100	\$50	\$1,500/\$3,000	\$0/\$0 \$10 \$25 \$50 N/A
	Out of Network	Not Covered	Not Covered Not Covered	Not Covered	\$100	Not Covered	Not Covered	Not Covered
HMO 20 Value GF	In-Network	\$0/\$0	\$20 \$20	20%	\$100	\$50	\$2,500/\$5,000	\$150/N/A \$15 \$30 (after ded.) \$50 (after ded.) N/A
	Out of Network	Not Covered	Not Covered Not Covered	Not Covered	\$100	Not Covered	Not Covered	Not Covered

* Health Net HMO, EOA, POS, PPO and Salud con Health Net HMO y Más plans are offered by Health Net of California, Inc. Life/AD&D insurance plans are underwritten by Health Net Life Insurance Company. Vision plans, other than pediatric vision, are underwritten by Health Net Life Insurance Company and administered by Centene Vision Services. Health Net Dental HMO and PPO plans, other than pediatric dental, are offered and serviced by Dental Benefit Providers of California, Inc. (DBP). Obligations of DBP are neither the obligations of, nor guaranteed by, Health Net, LLC. or its affiliates. Health Net of California, Inc. and Health Net Life Insurance Company are subsidiaries of Health Net, LLC and Centene Corporation. Health Net and Salud con Health Net are registered service marks of Health Net, LLC. All other identified trademarks/service marks remain the property of their respective companies. All rights reserved.
 * Optional infertility coverage is available for PPO, Full Network HMO, WholeCare HMO, SmartCare HMO and Salud HMO y Más. These plans are available for quoting and listed in the Health Net Rate Guide.
 * Dental HMO and PPO plans are offered and serviced by Dental Benefit Providers of California, Inc. (DBP). Vision plans are underwritten by Health Net Life Insurance Company and administered by Centene Vision Services. DBP is not affiliated with Health Net of California, Inc. or Health Net Life Insurance Company (together, the Health Net Entities). Obligations under dental plans are neither the obligations of, nor guaranteed by, the Health Net Entities.
 * To view the complete **Summary of Benefits (SBC)**, please go to <http://www.healthnet.com/sbc>



Renewal Proposal

Available Ancillary Plans

Available Dental Plans									
Dental Plan	Annual Deductible Single/Family	Coinsurance % Prev Basic Major	Benefit Max Per Member Per Calendar Yr.	Orthodontic Lifetime Max.	EE (4)	ES (2)	EC (1)	EF (2)	Premium
HN Plus DHMO 225 - S (Bundled)	N/A	0 0 225	N/A	N/A	\$14.67	\$27.87	\$29.34	\$41.81	\$227.38
HN Plus DHMO 225 - S	N/A	0 0 225	N/A	N/A	\$15.44	\$29.34	\$30.88	\$44.01	\$239.34
HN Plus DHMO 225 - S (v)	N/A	0 0 225	N/A	N/A	\$16.02	\$30.44	\$32.03	\$45.67	\$248.33
HN Plus DHMO 150 - S (Bundled)	N/A	0 0 150	N/A	N/A	\$17.13	\$32.56	\$34.24	\$48.81	\$265.50
HN Plus DHMO 150 - S	N/A	0 0 150	N/A	N/A	\$18.03	\$34.27	\$36.04	\$51.38	\$279.46
HN Plus DHMO 150 - S (v)	N/A	0 0 150	N/A	N/A	\$19.02	\$36.12	\$38.01	\$54.19	\$294.71
Essential 2 1000 (Bundled)	\$50/\$150	100% 80% 50%	\$1,000	Not Covered	\$30.13	\$60.27	\$66.31	\$101.27	\$509.91
Essential 2 1000	\$50/\$150	100% 80% 50%	\$1,000	Not Covered	\$31.72	\$63.44	\$69.80	\$106.60	\$536.76
Essential 2 1000 (v)	\$50/\$150	100% 80% 50%	\$1,000	Not Covered	\$33.56	\$67.15	\$73.81	\$112.75	\$567.85
Essential 6 1500 (Bundled)	\$50/\$150	100% 80% 50%	\$1,500	Not Covered	\$36.15	\$72.29	\$75.72	\$117.14	\$599.18
Essential 6 1500	\$50/\$150	100% 80% 50%	\$1,500	Not Covered	\$38.05	\$76.09	\$79.70	\$123.30	\$630.68
Essential 6 1500 (v)	\$50/\$150	100% 80% 50%	\$1,500	Not Covered	\$40.30	\$80.60	\$84.34	\$130.53	\$667.80
Essential 5 1500 with Ortho (Bundled)	\$50/\$150	100% 80% 50%	\$1,500	\$1,500	\$40.21	\$80.43	\$94.38	\$141.82	\$699.72
Essential 5 1500 with Ortho	\$50/\$150	100% 80% 50%	\$1,500	\$1,500	\$42.33	\$84.66	\$99.35	\$149.28	\$736.55
Essential 5 1500 with Ortho (v)	\$50/\$150	100% 80% 50%	\$1,500	\$1,500	\$44.81	\$89.62	\$105.02	\$157.85	\$779.20
Classic 4 1500 (Bundled)	\$50/\$150	100% 80% 50%	\$1,500	Not Covered	\$50.53	\$101.05	\$105.32	\$163.15	\$835.84
Classic 4 1500	\$50/\$150	100% 80% 50%	\$1,500	Not Covered	\$53.19	\$106.37	\$110.86	\$171.74	\$879.84



Renewal Proposal

Classic 5 1500 with Ortho (Bundled)	\$50/\$150	100% 80% 50%	\$1,500	\$1,500	\$51.93	\$103.88	\$117.66	\$178.36	\$889.86
Classic 7 Unlimited (Bundled)	\$50/\$150	100% 80% 50%	Unlimited	Not Covered	\$54.55	\$109.07	\$110.86	\$172.90	\$893.00
Essential 9 3000 with Ortho (Bundled)	\$50/\$150	100% 90% 50%	\$3,000	\$3,000	\$51.97	\$103.94	\$124.14	\$185.73	\$911.36
Classic 4 1500 (v)	\$50/\$150	100% 80% 50%	\$1,500	Not Covered	\$56.41	\$112.81	\$117.48	\$182.04	\$932.82
Classic 5 1500 with Ortho	\$50/\$150	100% 80% 50%	\$1,500	\$1,500	\$54.66	\$109.35	\$123.85	\$187.75	\$936.69
Classic 7 Unlimited	\$50/\$150	100% 80% 50%	Unlimited	Not Covered	\$57.42	\$114.81	\$116.69	\$182.00	\$939.99
Essential 9 3000 with Ortho	\$50/\$150	100% 90% 50%	\$3,000	\$3,000	\$54.70	\$109.41	\$130.67	\$195.50	\$959.29
Classic 5 1500 with Ortho (v)	\$50/\$150	100% 80% 50%	\$1,500	\$1,500	\$57.93	\$115.88	\$131.10	\$198.78	\$992.14
Classic 7 Unlimited (v)	\$50/\$150	100% 80% 50%	Unlimited	Not Covered	\$60.90	\$121.80	\$123.71	\$192.98	\$996.87
Essential 9 3000 with Ortho (v)	\$50/\$150	100% 90% 50%	\$3,000	\$3,000	\$57.92	\$115.86	\$138.14	\$206.75	\$1,015.04
Classic 11 Unlimited with Ortho (Bundled)	\$50/\$150	100% 90% 60%	Unlimited	\$3,000	\$75.76	\$151.51	\$171.92	\$260.50	\$1,298.98
Classic 11 Unlimited with Ortho	\$50/\$150	100% 90% 60%	Unlimited	\$3,000	\$79.75	\$159.48	\$180.97	\$274.21	\$1,367.35
Classic 11 Unlimited with Ortho (v)	\$50/\$150	100% 90% 60%	Unlimited	\$3,000	\$84.54	\$169.09	\$191.58	\$290.40	\$1,448.72

Please refer to www.healthnet.com, your renewal guide, or contact your Account Manager for more information regarding Dental Out of Network Benefits. Please refer to Dental Underwriting Guidelines included in this document to determine plan qualification requirements.

Available Vision Plans

Vision Plan	Exam Glasses Contacts	Lens Single/Bifocal/Trifocal /Std Progressive	Frame Allowance	Frequency Exam Lens & Contacts Frames	EE (4)	ES (2)	EC (1)	EF (2)	Premium
Exam Only (Bundled)	\$0 Not Covered	Not Covered/Not Covered/Not Covered/Not Covered	Not Covered	Once every 24 months Not Covered Not Covered	\$1.80	\$3.41	\$3.59	\$5.39	\$28.39
Exam Only	\$0 Not Covered	Not Covered/Not Covered/Not Covered/Not Covered	Not Covered	Once every 24 months Not Covered Not Covered	\$1.89	\$3.59	\$3.78	\$5.67	\$29.86



Renewal Proposal

Plus 20-1 (Bundled)	\$20 Copay Not Covered	\$50/\$70/\$105/\$135	35% discount off retail price	Once every 12 months Unlimited Unlimited	\$2.21	\$4.21	\$4.43	\$6.64	\$34.97
Plus 20-1	\$20 Copay Not Covered	\$50/\$70/\$105/\$135	35% discount off retail price	Once every 12 months Unlimited Unlimited	\$2.33	\$4.43	\$4.66	\$6.99	\$36.82
Preferred Value 10-3 (materials only) (Bundled)	Not Covered Not Covered	\$10/\$10/\$10/\$75	\$100 Allowance	N/A Once every 24 months Once every 24 months	\$4.73	\$8.99	\$9.46	\$14.19	\$74.74
Exam Only (v)	\$0 Not Covered	Not Covered/Not Covered/Not Covered/Not Covered	Not Covered	Once every 24 months Not Covered Not Covered	\$4.89	\$9.29	\$9.78	\$14.67	\$77.26
Preferred Value 10-3 (materials only)	Not Covered Not Covered	\$10/\$10/\$10/\$75	\$100 Allowance	N/A Once every 24 months Once every 24 months	\$4.98	\$9.46	\$9.96	\$14.94	\$78.68
Plus 20-1 (V)	\$20 Copay Not Covered	\$50/\$70/\$105/\$135	35% discount off retail price	Once every 12 months Unlimited Unlimited	\$5.33	\$10.13	\$10.66	\$15.99	\$84.22
Preferred 1025-3 (Bundled)	\$10 Copay \$55 (Up to)	\$25/\$25/\$25/\$90	\$100 Allowance	Once every 12 months Once every 24 months Once every 24 months	\$6.37	\$12.11	\$12.75	\$19.12	\$100.69
Preferred 1025-2 (Bundled)	\$10 Copay \$55 (Up to)	\$25/\$25/\$25/\$90	\$100 Allowance	Once every 12 months Once every 12 months Once every 24 months	\$6.71	\$12.74	\$13.41	\$20.12	\$105.97
Preferred 1025-3	\$10 Copay \$55 (Up to)	\$25/\$25/\$25/\$90	\$100 Allowance	Once every 12 months Once every 24 months Once every 24 months	\$6.71	\$12.75	\$13.42	\$20.13	\$106.02
Preferred 1025-2	\$10 Copay \$55 (Up to)	\$25/\$25/\$25/\$90	\$100 Allowance	Once every 12 months Once every 12 months Once every 24 months	\$7.06	\$13.41	\$14.12	\$21.18	\$111.54
Preferred Value 10-3 (materials only) (V)	Not Covered Not Covered	\$10/\$10/\$10/\$75	\$100 Allowance	N/A Once every 24 months Once every 24 months	\$7.98	\$15.16	\$15.96	\$23.94	\$126.08
Supreme 010-2 (Bundled)	\$0 \$55 (Up to)	\$10/\$10/\$10/\$75	\$120 Allowance	Once every 12 months Once every 12 months Once every 24 months	\$7.99	\$15.18	\$15.98	\$23.97	\$126.24
Supreme 010-2	\$0 \$55 (Up to)	\$10/\$10/\$10/\$75	\$120 Allowance	Once every 12 months Once every 12 months Once every 24 months	\$8.41	\$15.98	\$16.82	\$25.23	\$132.88
Elite 1010-1 (Bundled)	\$10 Copay \$55 (Up to)	\$10/\$10/\$10/\$75	\$150 Allowance	Once every 12 months Once every 12 months Once every 12 months	\$8.75	\$16.63	\$17.50	\$26.25	\$138.26



Renewal Proposal

Elite 1010-1	\$10 Copay \$55 (Up to)	\$10/\$10/\$10/\$75	\$150 Allowance	Once every 12 months Once every 12 months Once every 12 months	\$9.21	\$17.50	\$18.42	\$27.63	\$145.52
Preferred 1025-3 (V)	\$10 Copay \$55 (Up to)	\$25/\$25/\$25/\$90	\$100 Allowance	Once every 12 months Once every 24 months Once every 24 months	\$9.71	\$18.45	\$19.42	\$29.13	\$153.42
Preferred 1025-2 (V)	\$10 Copay \$55 (Up to)	\$25/\$25/\$25/\$90	\$100 Allowance	Once every 12 months Once every 12 months Once every 24 months	\$10.06	\$19.11	\$20.12	\$30.18	\$158.94
Supreme 010-2 (V)	\$0 \$55 (Up to)	\$10/\$10/\$10/\$75	\$120 Allowance	Once every 12 months Once every 12 months Once every 24 months	\$11.41	\$21.68	\$22.82	\$34.23	\$180.28
Elite 1010-1 (V)	\$10 Copay \$55 (Up to)	\$10/\$10/\$10/\$75	\$150 Allowance	Once every 12 months Once every 12 months Once every 12 months	\$12.21	\$23.20	\$24.42	\$36.63	\$192.92

Please refer to www.healthnet.com, your renewal guide, or contact your Account Manager for more information regarding Vision Out of Network Benefits. Please refer to Vision Underwriting Guidelines included in this document to determine plan qualification requirements.

<i>Available Life Plans</i>		
Basic Life and AD&D	Per \$1,000	Premium
Flat 15K	\$6.00	\$90.00

Approval of coverage and final rates will be based on actual enrollment and final underwriting.



Renewal Proposal

Quoted Medical Plan Rate Sheets

Plan Name: HMO 20 Value GF

	Age Range	Region 101	Region 102	Region 103	Region 104	Region 105	Region 106	Region 107	Region 108	Region 109
Employee	0-29	947.01	793.05	718.81	565.65	444.82	541.03	717.82	428.02	422.64
	30-39	1056.66	884.96	802.27	631.35	496.46	603.73	801.19	477.55	471.72
	40-49	1241.29	1039.58	942.47	741.50	583.16	709.23	941.36	560.95	554.09
	50-54	1682.70	1409.19	1277.49	1005.10	790.59	961.42	1275.95	760.44	751.17
	55-59	2122.92	1777.78	1611.71	1267.90	997.25	1212.96	1609.69	959.41	947.56
	60-64	2731.80	2287.95	2074.02	1631.77	1283.57	1560.90	2071.38	1234.63	1219.53
65+	3586.33	3003.46	2722.62	2142.05	1684.89	2049.04	2719.17	1620.75	1600.88	
Employee + Spouse	0-29	2188.34	1832.67	1661.26	1307.07	1028.13	1250.33	1659.27	988.89	976.87
	30-39	2432.92	2037.64	1847.04	1453.23	1143.02	1390.07	1844.61	1099.46	1085.99
	40-49	2825.03	2365.88	2144.73	1687.28	1327.24	1614.07	2142.05	1276.78	1261.01
	50-54	3433.52	2875.38	2606.51	2050.72	1613.07	1961.76	2603.25	1551.71	1532.62
	55-59	4418.35	3700.07	3354.38	2638.89	2075.75	2524.24	3350.14	1996.63	1972.20
	60-64	5318.61	4454.38	4038.07	3176.96	2498.82	3038.89	4032.90	2403.77	2374.18
65+	6813.81	5706.15	5172.85	4069.70	3201.24	3893.03	5166.39	3079.28	3041.60	
Employee + Child(ren)	0-29	2294.08	1921.34	1741.70	1370.33	1077.76	1310.62	1739.48	1036.77	1023.97
	30-39	2357.48	1974.09	1789.67	1408.02	1107.44	1346.89	1787.42	1065.39	1052.22
	40-49	2346.50	1965.06	1781.35	1401.51	1102.46	1340.70	1779.24	1060.51	1047.45
	50-54	2587.12	2166.44	1964.05	1545.33	1215.41	1478.17	1961.50	1169.20	1154.81
	55-59	3107.83	2602.86	2359.51	1856.35	1460.14	1775.74	2356.52	1404.54	1387.28
	60-64	3673.20	3076.12	2788.73	2193.87	1725.69	2098.74	2785.15	1660.04	1639.59
65+	4756.00	3983.16	3610.87	2840.70	2234.44	2717.38	3606.08	2149.36	2123.01	
Employee + Family	0-29	3629.44	3039.54	2755.28	2167.81	1705.11	2073.59	2751.95	1640.19	1620.07
	30-39	3785.75	3170.34	2874.02	2261.03	1778.51	2162.90	2870.23	1710.86	1689.78
	40-49	3936.32	3296.60	2988.12	2351.15	1849.29	2249.04	2984.67	1778.87	1757.07
	50-54	4511.21	3777.97	3424.79	2694.34	2119.40	2577.38	3420.33	2038.77	2013.64
	55-59	4961.24	4154.78	3766.48	2963.33	2330.79	2834.67	3761.72	2242.10	2214.52
	60-64	5907.56	4947.39	4485.01	3528.34	2775.37	3375.31	4479.33	2669.77	2636.93
65+	7626.12	6386.31	5789.54	4554.73	3582.62	4357.14	5782.25	3446.47	3403.89	



Renewal Proposal

Plan Name: HMO 10 Standard GF

	Age Range	Region 101	Region 102	Region 103	Region 104	Region 105	Region 106	Region 107	Region 108	Region 109
Employee	0-29	1241.73	1032.15	928.63	758.14	627.49	716.28	964.70	608.42	596.20
	30-39	1385.54	1152.17	1036.46	846.11	700.17	799.24	1076.53	678.98	665.26
	40-49	1627.82	1353.30	1217.51	994.01	822.68	939.04	1264.68	797.57	781.65
	50-54	2206.40	1834.55	1650.46	1347.39	1114.90	1272.98	1714.25	1081.12	1059.29
	55-59	2783.55	2313.93	2081.97	1699.72	1406.54	1606.09	2162.55	1363.99	1336.37
	60-64	3582.23	2978.01	2679.59	2187.35	1810.06	2066.76	2783.11	1755.44	1719.77
Employee + Spouse	65+	4702.43	3909.31	3517.41	2871.46	2376.23	2712.87	3653.53	2304.27	2257.73
	0-29	2869.34	2385.34	2146.21	1752.04	1449.99	1655.35	2229.30	1405.94	1377.64
	30-39	3190.11	2652.00	2385.99	1947.89	1611.97	1840.43	2478.55	1563.20	1531.55
	40-49	3704.37	3079.52	2770.63	2261.76	1871.91	2137.15	2878.00	1815.24	1778.52
	50-54	4502.17	3742.81	3367.51	2748.91	2274.87	2597.48	3497.91	2206.08	2161.40
	55-59	5793.43	4816.43	4333.54	3537.50	2927.64	3342.34	4501.05	2838.92	2781.59
Employee + Child(ren)	60-64	6974.26	5798.05	5216.56	4258.44	3524.15	4023.62	5418.74	3417.56	3348.35
	65+	8934.71	7427.69	6682.76	5455.32	4514.52	5154.56	6941.64	4378.04	4289.32
	0-29	3008.13	2500.75	2250.16	1836.84	1520.07	1735.55	2337.06	1473.97	1444.24
	30-39	3091.23	2569.82	2312.17	1887.51	1561.98	1783.41	2401.49	1514.66	1484.05
	40-49	3076.83	2557.96	2301.40	1878.86	1554.65	1775.14	2390.52	1507.81	1477.12
	50-54	3392.40	2820.11	2537.34	2071.40	1714.16	1957.13	2635.64	1662.01	1628.66
Employee + Family	55-59	4075.06	3387.95	3048.27	2488.40	2059.19	2351.03	3166.10	1996.91	1956.51
	60-64	4816.54	4004.24	3602.71	2940.96	2433.90	2778.81	3742.22	2360.06	2312.48
	65+	6236.37	5184.55	4664.65	3807.84	3151.44	3597.91	4845.48	3055.99	2994.23
	0-29	4759.04	3956.48	3559.79	2905.94	2404.88	2745.67	3697.60	2332.05	2284.93
	30-39	4963.83	4126.51	3712.88	3030.98	2508.25	2863.75	3856.69	2432.39	2383.11
	40-49	5161.47	4291.10	3860.82	3151.56	2608.12	2977.87	4010.16	2529.27	2478.02
Employee + Family	50-54	5915.22	4917.65	4424.39	3611.82	2988.90	3412.64	4595.67	2898.50	2839.84
	55-59	6505.28	5408.07	4866.04	3972.06	3287.31	3753.15	5054.37	3187.65	3123.34
	60-64	7746.17	6439.74	5793.85	4729.85	3914.36	4469.04	6018.42	3795.83	3719.07
	65+	9999.61	8313.15	7479.63	6105.67	5052.83	5768.95	7769.20	4899.86	4800.80

Health Net and the Cigna HealthcareSM PPO Network*

PREVAILING NETWORK DETERMINATION



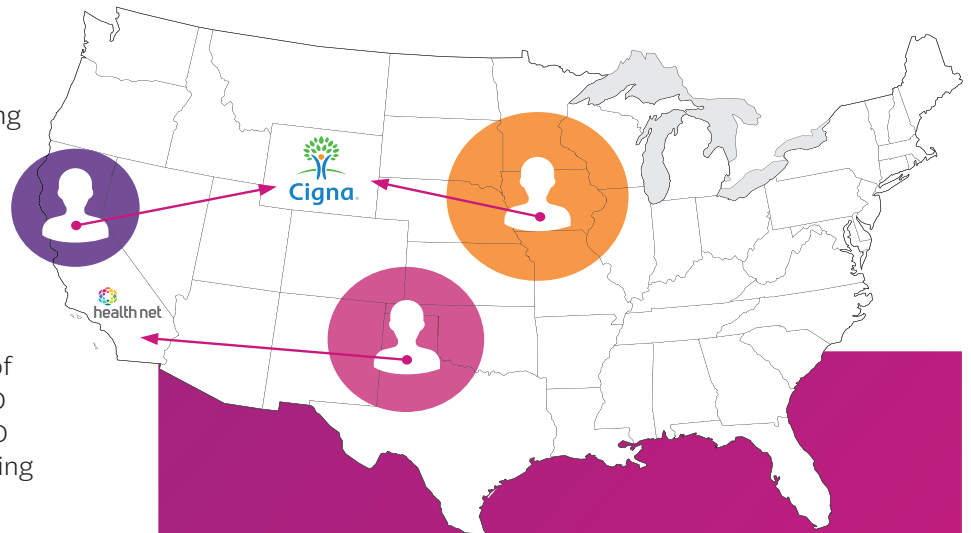
Lives in CA and traveling out of state: When traveling outside of CA but within US, Health Net PPO group plan members can access the Cigna Healthcare PPO Network



Lives in another state, traveling within CA: Out of state Health Net group PPO members can use their PPO plan's network when traveling within CA



Lives in another state, needing services outside of CA: Out of state Health Net group PPO members obtaining services outside of CA can access the Cigna Healthcare PPO Network



Since **November 1, 2023**, members covered under Health Net group PPO plans issued in California have access to the national Cigna Healthcare PPO Network for services outside of California.

This gives our members access to over **1 million** providers and **6,200 facilities**** Nationwide

Members can log in to Find A Doctor at: <https://hcpdirectory.cigna.com/web/public/consumer/directory/search?consumerCode=HDC064>

Members can contact Health Net at 800-522-0088 or find more information online at www.healthnet.com.

*The Cigna Healthcare PPO Network refers to the health care providers (doctors, hospitals, specialists) contracted as part of the Cigna Healthcare PPO for Shared Administration.

**Cigna Healthcare analysis of actual providers contracted as part of the Cigna Healthcare PPO for Shared Administration as of July 2023. Data is subject to change.

Cigna HealthcareSM is an independent company and not affiliated with Health Net of California, Inc. Access to the Cigna HealthcareSM PPO Network is available through Cigna Healthcare's contractual relationship with Health Net of California, Inc. All Cigna Healthcare products are provided exclusively by or through operating subsidiaries of The Cigna Group, including Cigna Health and Life Insurance Company. The Cigna Healthcare name, logo, and other marks are owned by Cigna Intellectual Property, Inc.

Health Net of California, Inc. is a subsidiary of Health Net, LLC and Centene Corporation. Health Net is a registered service mark of Health Net, LLC. All other identified trademarks/service marks remain the property of their respective companies. All rights reserved.

FLY1437303EH01w (1/24)



health net.

Health Net of California, Inc.
SBG Account Management
CA21281-02-502
PO Box 9103
Van Nuys, CA 91409-9103

www.healthnet.com/employer

Dear Valued Client,

Attached is your 2025 California Small Business Group quote which includes the monthly rate for your renewing and/or new plan. However, the rate and/or plan is subject to change pending regulatory review. We will update you if there are any changes.

To see information about this rate, go to:

For HMO and PPO:

<http://wpso.dmhc.ca.gov/premiumratereview/FilingList.aspx>

Please feel free to contact your dedicated Health Net Representative with any questions that you may have. We appreciate your business, and we will continue to keep you informed of future updates to your health plan.

Sincerely,

Health Net of California, Inc.

Health Net HMO and PPO plans are offered by Health Net of California, Inc. Health Net of California, Inc. is a subsidiary of Health Net, LLC. Health Net is a registered service mark of Health Net, LLC and Centene Corporation. All rights reserved.

1/25 Small Group Enhanced Choice Underwriting Guidelines

Eligibility:

- ◆ 1-100 employees with a principal business address in California, subject to Out-of-Area Requirements below.
- ◆ Owner-only groups are not eligible. There must be a minimum of one W-2 employee who is not a spouse of the owner or partner.
- ◆ Out-of-Area Requirements
 - The majority of employees must be employed in California.
 - Eligible employees residing in the United States, but outside of the California service area, may be written on a PPO plan.
- ◆ Probationary period for new hires can be first of the month following the date of hire, or 1 month, 30 days, or 60 days, after the date of hire.
- ◆ Carve-outs are not available.
- ◆ Eligible employees can be defined as employees working an average of 20 or 30 hours per week.
- ◆ 1099s are not eligible for coverage.

Contribution/Participation:

- ◆ A minimum employer contribution to the employee rate of \$100 or 50% of the lowest cost plan is required.
- ◆ For groups of 1-4 enrolling employees, a minimum of 70% participation is required. For groups of 5-100 enrolling employees, a minimum of 25% participation is required.
- ◆ Health Net is not required to be sole carrier as long as participation guidelines are met.
- ◆ Eligible employees waiving coverage due to group coverage through another employer (e.g., spousal coverage) will not count against participation.

Rate Information:

- ◆ 12-month rate guarantee for new and renewing business.
- ◆ Rating is based on the employer's principal business address in California for all employees.
- ◆ Age-banded rates only.

Submission:

- ◆ All cases requesting coverage on the 1st must be submitted by the 5th of the month for which coverage is to be effective.
- ◆ For groups effective on the 15th cases must be submitted by the 20th of the month for which coverage is to be effective. *Note:* This option is available for groups losing coverage mid-month only.
- ◆ For groups not meeting participation and/or contribution guidelines, cases must be submitted between 11/15 and 12/15 for a 1/1 effective date.

Choices:

- ◆ Groups of 2 or more can mix and match all plans in any of the following networks:
 - Full Network HMO
 - WholeCare HMO
 - SmartCare HMO
 - Salud HMO y Más
 - PPO
- ◆ Service area restrictions apply to all networks with the exception of PPO.

Riders:

- ◆ If selected, the chiropractic rider will be applied to all plans within the package.
- ◆ If selected, the infertility rider will be applied to all plans within the package.

PEO Groups:

- ◆ The group must demonstrate it has the right to direct the work of its employees, as well as the right to make personnel decisions, such as hiring and firing.
- ◆ All standard underwriting guidelines apply.

1/25 Small Group Dental & Vision Adult Buy-Up Underwriting Guidelines

Group Eligibility:

- ◆ 2-100 employees with a principal business address in California, subject to out-of-area requirements below.
- ◆ Owner-only groups are not eligible. There must be a minimum of one W-2 employee who is not a spouse of the owner or partner.
- ◆ Out-of-Area Requirements
 - The majority of employees must be employed in California.
 - Eligible employees residing in the United States, but outside of the California service area, may be written on a PPO plan.
- ◆ Carve-outs are not available.
- ◆ Health Net SBG dental and/or vision coverage is not available to guaranteed associations.
- ◆ Dental and/or Vision may be written on a standalone basis or in conjunction with Medical.

Employee Eligibility:

- ◆ Probationary period for new hires can be first of the month following: date of hire, 1 month, 30 days, or 60 days. *Note:* the probationary period must match Medical.
- ◆ Eligible employees can be defined as employees working at least 20 or 30 hours per week. *Note:* the hours per week must match Medical.
- ◆ 1099 employees are not eligible for coverage.
- ◆ With the exception of owners, all employees must be covered by workers' compensation.

Dependent Eligibility:

- ◆ Although dependents under age 19 have access to pediatric dental benefits through their medical plan, they may also be enrolled onto a dental buy-up plan to access enhanced benefits. Please see the Dental Details section for more information.

Eligibility Verification:

- ◆ Groups enrolling in Employer Paid Dental and/or Vision plans must submit their most current DE9C. *Note:* Payroll and/or ownership documentation is required for anyone not on the DE9C.
- ◆ Groups enrolling in Voluntary Dental and/or Vision plans are not required to submit a DE9C as long as they meet the minimum enrollment requirements.

Contribution/Participation/Minimum Enrollment:

- ◆ Employer paid rates require a minimum employer contribution of 50% of the employee premium and a minimum participation of 50% of the eligible employees. *Note:* Employees waiving coverage due to group coverage through another employer (i.e. spousal coverage) will not count against participation.
- ◆ Voluntary rates apply to those cases with less than 50% contribution and/or less than 50% participation.
- ◆ A minimum of 2 active subscribers per plan is required, unless otherwise noted below.

Rate Information:

- ◆ 12-month rate guarantee for cases sold/renewed in conjunction with Medical.
- ◆ Cases sold off cycle from Medical will have their first renewal in conjunction with Medical.

Submission:

- ◆ All cases requesting coverage on the 1st must be submitted by the 5th of the month for which coverage is to be effective.
- ◆ Mid-month effective dates are not allowed.

Vision Details:

- ◆ Dual Choice Vision is not available.

Dental Details:

- ◆ Implant coverage is available in DHMO plans only.
- ◆ Orthodontia is available in Plus DHMO 150 and 225, DPPO Classic 5 and 11, and DPPO Essential 5 and 9 only.
- ◆ Groups electing Employer Paid DPPO with orthodontia and are enrolling 2-4 eligible employees must provide proof of immediately prior indemnity orthodontic coverage.
- ◆ Groups electing Employer Paid or Voluntary DPPO with orthodontia and are enrolling 5 or more eligible employees are not required to provide proof of prior indemnity orthodontic coverage.
- ◆ Dual Choice Dental is available. Groups may select 1 DHMO and 1 DPPO, 2 DHMO, or 2 DPPO plans, with a minimum of 2 active subscribers on each plan. *Note:* Groups electing DPPO with orthodontia are subject to the minimum enrollment requirements indicated above.

1/25 Small Group Life Underwriting Guidelines

Eligibility:

- ◆ 2-100 employees with a principal business address in California, subject to Out-of-Area Requirements below.
- ◆ Owner-only groups are not eligible. There must be a minimum of one W-2 employee who is not a spouse of the owner or partner.
- ◆ Out-of-Area Requirements
 - The majority of employees must be employed in California.
- ◆ Probationary period for new hires can be first of the month following: date of hire, 1 month, 30 days, or 60 days. *Note:* the probationary period must match Medical.
- ◆ “Flat” benefit schedules only.
- ◆ Benefits reduce to 65% of the original benefit at age 65, and further reduce to 50% of the original benefit at age 70.
- ◆ Contribution and participation requirements vary by group size. *Note:* Unlike Medical, waiving for other coverage will count against participation.
- ◆ Carve-outs are not available.
- ◆ Employees must meet the actively-at-work requirement in order to be eligible. Additionally, they must be working full-time at the employer’s regular place of business at least 20 hours per week to be eligible. *Note:* The number of hours must coincide with Health Net medical eligibility guidelines.
- ◆ Retirees, COBRA enrollees, part-time employees, seasonal employees, and 1099s are not eligible for coverage.

Medical Evidence of Insurability:

- ◆ EOIs are necessary:
 - If coverage is applied for later than 31 days after the date of eligibility.
- ◆ Subject to Underwriting Approval:
 - Medical conditions reported on the EOI.
 - Coverage requiring EOIs will not become effective until approved in writing by Health Net Life.
 - Some SIC classifications are excluded.

Submission:

- ◆ All cases requesting coverage on the 1st must be submitted by the 5th of the month for which coverage is to be effective.
- ◆ For medical groups that are effective on the 15th of the month, Life coverage will be effective on the first of the month prior to the start of medical coverage. For example, for medical groups that are effective on 1/15/2015, Life coverage will be effective on 1/1/2015.

Groups of 2-9 Eligible Employees:

- ◆ Standalone Life is not available.
- ◆ Life benefit of \$15,000.
- ◆ Employer contribution and participation must be 100%.
- ◆ No more than 25% of employees may be 60 or older.

Groups of 10-14 Eligible Employees:

- ◆ Standalone Life is available.
- ◆ Life benefit of \$15,000.
- ◆ Minimum of 50% employer contribution.
- ◆ Minimum participation:
 - 75% if contributory.
 - 100% if non-contributory.

Groups of 15-24 Eligible Employees:

- ◆ Standalone Life is available.
- ◆ Life benefit of \$15,000 or \$25,000.
- ◆ Minimum of 50% employer contribution.
- ◆ Minimum participation:
 - 75% if contributory.
 - 100% if non-contributory.

Groups of 25-100 Eligible Employees:

- ◆ Standalone Life is available.
- ◆ Life benefit of \$15,000, \$25,000, or \$50,000.
- ◆ Minimum of 50% employer contribution.
- ◆ Minimum participation:
 - 75% if contributory.
 - 100% if non-contributory.

Account Number: 1104768

RECEIVED

Anniversary Date: January 1, 2025

OCT 25 2024

San Antonio Water Company



October 20, 2024

005120

SAN ANTONIO WATER COMPANY
ATTN: Teri Layton
139 N EUCLID AVE
UPLAND, CA 91786

JLR AGENCY AND INSURANCE SOLUTIONS INC
130 S CHAPARRAL CT STE 215
ANAHEIM, CA 92808-2238

As you approach your upcoming renewal with Principal Life Insurance Company®, we would like to thank you for your continued business over the past year. Our goal is to offer competitive benefit solutions supported with exceptional service. Your business is very important to us and we look forward to supporting your business needs in the coming years!

Your renewal

Your renewal rates are on the following pages. Your coverage will renew on your policy anniversary date (January 1, 2025).

Help your renewal go smoothly by reviewing this checklist: principal.com/groupinsurancerenewal

How to renew your coverage

To renew coverage, please notify your agent and your payment of the premium due is your acceptance of the rates. We look forward to continuing our relationship with you.

Contact Us

If you have questions about this renewal or exploring alternate benefit designs, contact your broker or local Principal Life Insurance Company® sales office at 657-261-2592.

Sincerely,

Group Benefits Underwriting
Specialty Benefits Division



Insurance issued by Principal Life Insurance Company®, Des Moines, IA 50392

GP61123-23

1 69
100 000000 000000000000022945819102005005 0000891 001 of 003

06/2024

Renewal rates

Effective January 1, 2025

Rates below assume all coverages are renewed. A change to coverages may cause rates to change.

Group term life - rates are expressed as per \$1,000

ALL MEMBERS				
Volume Lives	Current rate	Current monthly premium	Renewal rate	Renewal monthly premium
\$1,043,000 9	\$0.253	\$263.88	\$0.253	\$263.88
Renewal rates are guaranteed through December 31, 2025.				
Your rates aren't changing.				

Accidental Death & Dismemberment - rates are expressed as per \$1,000

Active members only				
Volume Lives	Current rate	Current monthly premium	Renewal rate	Renewal monthly premium
\$1,043,000 9	\$0.037	\$38.59	\$0.037	\$38.59
Renewal rates are guaranteed through December 31, 2025.				
Your rates aren't changing.				

Dental

ALL MEMBERS					
	Lives	Current rates	Renewal rates	Current monthly premium	Renewal monthly premium
Employee	2	\$52.34	\$55.74	\$104.68	\$111.48
Employee & one dependent	4	\$101.03	\$107.59	\$404.12	\$430.36
Family	3	\$182.52	\$194.38	\$547.56	\$583.14
Total				\$1,056.36	\$1,124.98
Renewal rates are guaranteed through December 31, 2025.					

Vision

ALL MEMBERS					
	Lives	Current rates	Renewal rates	Current monthly premium	Renewal monthly premium
Employee	4	\$8.55	\$8.55	\$34.20	\$34.20
Employee & spouse	3	\$18.11	\$18.11	\$54.33	\$54.33
Employee & child(ren)	0	\$20.74	\$20.74	\$0.00	\$0.00
Family	2	\$32.75	\$32.75	\$65.50	\$65.50
Total				\$154.03	\$154.03
Renewal rates are guaranteed through December 31, 2025.					
Your rates aren't changing.					





IMPORTANT NOTICE - CALIFORNIA

California requires insurance carriers to provide information regarding the standards for timely access to health care services annually. Please copy the attached notice and provide to all employees enrolled in Dental and/or Vision benefits.

TIMELY ACCESS TO CARE

The state of California wants you to know you have the right to expect the following from your Preferred Provider:

- Urgent appointments must be offered within 72 hours of the time of request for an appointment, when consistent with your needs and as required by professionally recognized standards of practice;
- Non-urgent appointments must be offered within 36 business days of the request for an appointment; and
- Preventive appointments must be offered within 40 business days of the request for an appointment.

The applicable waiting time for a particular appointment may be extended if the referring or treating licensed health care provider, or the health professional providing triage or screening services, has determined and noted in the record that a longer waiting time will not have a detrimental impact on your health.

When it is necessary for you or your Preferred Provider to reschedule an appointment, the appointment must be promptly rescheduled in a manner that is appropriate for your health care needs, and ensures continuity of care consistent with good professional practice.

At the time of your appointment, you can get an interpreter. For help, call us at the number listed on your ID card or 1-800-247-4695. For more help, persons may contact:

California Insurance Department
Health Claims Bureau
300 South Spring Street, South Tower
Los Angeles, CA 90013
Phone: 1-800-927-4357 (HELP)
TDD: 1-800-482-4833
Website: www.insurance.ca.gov

This notice is for your information only and does not become a part or condition of your dental benefits.



San Antonio Water

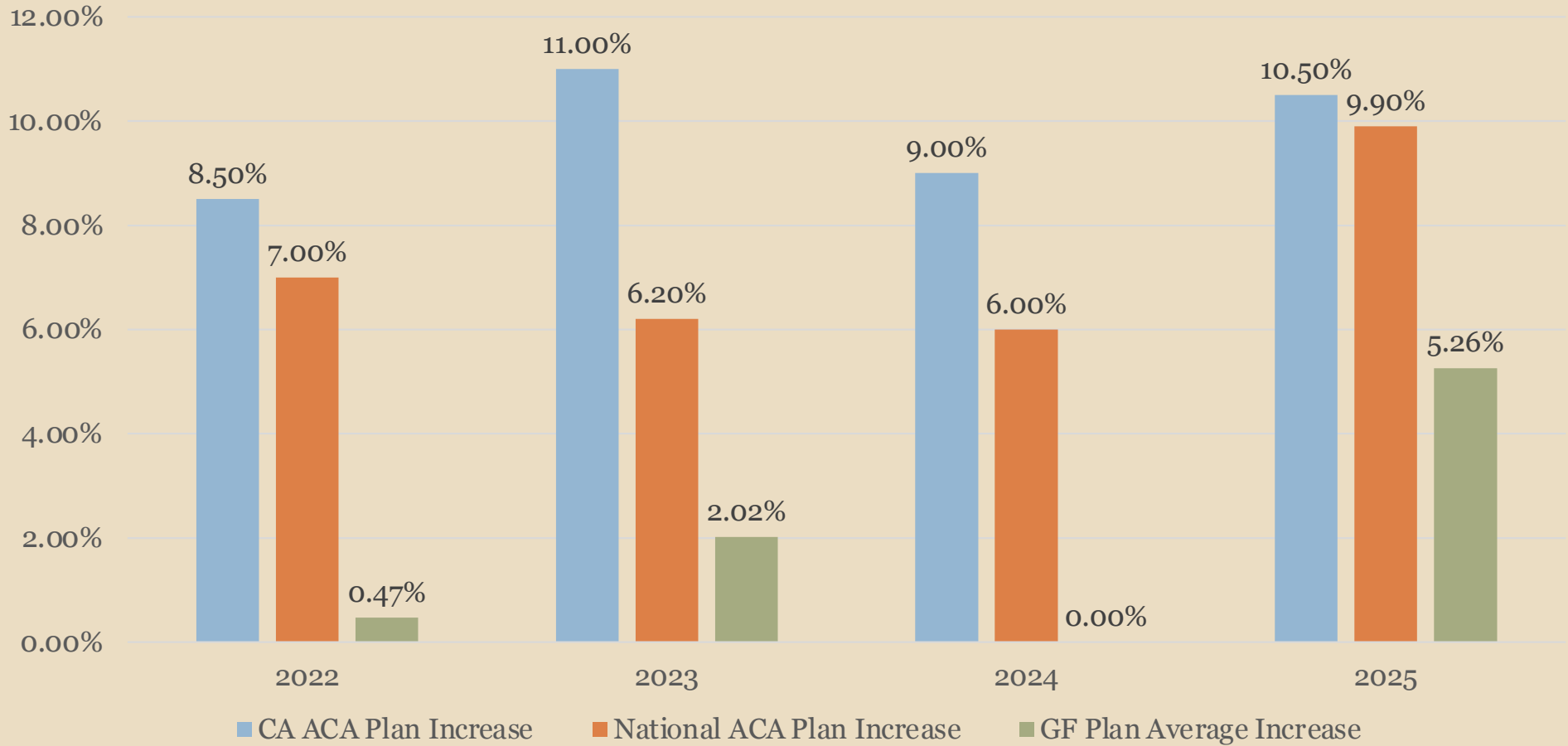


MARKET REVIEW 2025

Rate Review ACA Versus Grandfathered Plans



Rate Progression 2022-2025



What's Happened/Future Outlook



Changes to ACA Plans to Date

- **Steady increases over past 4 years**
 - Increased utilization claims being realized due to COVID 19 limitations ending.
 - Small groups in 2024 had increases between 10%-15%, and large group sustained larger increase this year due to CAA Act reporting.
- **Plan designs continue to change annually:**
 - OOPM continues to increase annually and are as high as \$9350.00 per individual and doubled for families.
 - Specialist Office Visits continue to increase. Ranges average from \$20-\$100 per visit.
 - Hospital and Emergency costs are more expensive to the member. percentage cost has been used more often versus Co-Pays .
 - Tiered Copays added impact cost based on access point. Utilizing benefits in a hospital setting versus a stand-alone facility cost more.
 - Plan designs have pushed consumers to use the ER as a last resort for care.
 - Labs and x-rays not included with office visits anymore and also have more access points.
 - ER Visits are not all inclusive to co-pay now. Charges for imaging, pharmacy or labs can add cost.
 - Rate are based on Annual year age bands versus the 10 year age bands on grandfathered plans to age 49 and 5 year age bands after that.

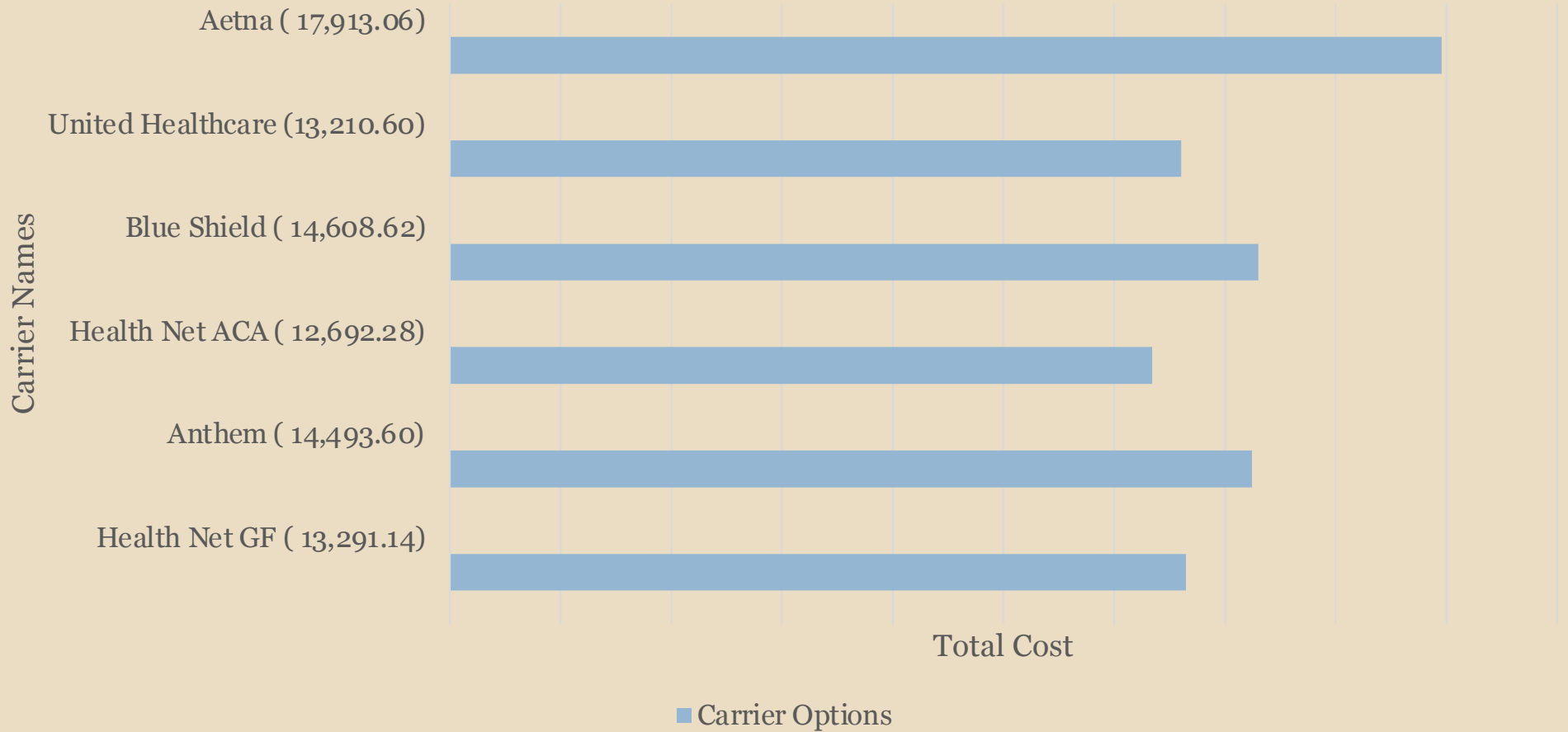
Future Outlook

- Individual market imploding in many states- Employees look to employer for plans especially now after the pandemic. In California, Blue Shield lost a major player (Providence) in their Trio plan.
- Rates projected to increase by the end of 2025 approximately 9.90% according to market trends analysis. Kaiser has stabilized after gross miss management of money during COVID and hope to not lead carriers with the biggest increases again in 2025.
- Carrier contracts with Providers have been harder to obtain. Longer negotiations are taking place.
- Deductibles, Copays, OOPM projected to rise again for individuals and ACA compliant plans.
- Uncertainty in the marketplace on the future of healthcare due to Single payer plans, upcoming election and inflation.
- California Appropriation Act of 2021 continuing to roll out requiring prescription transparency and gag order removal . Expected to impact pharmacy and ultimately medical costs . Requires reporting form all access points to health insurance.
- Individual mandate still intact for California for 2024.
- Grandfathered plans continue to be protected from any material changes to the benefits.
- Another attempt at Single Payer signed by Gavin Newsome was defeated but continues to be an item on the agenda.

Overall Cost Per Carrier



Per Month Company Wide



Carrier Benefit Comparison



Benefits	Health Net (GF)	UHC	Blue Shield	Health Net (ACA)	Anthem
Deductible	\$0	\$0	\$0	\$0	\$0
OOPM	\$1500/\$3000	\$3500/\$7000	\$2350/\$4600	\$2500/\$5000	\$2300/\$4600
Office Visit/Specialist	\$10	\$20/\$40	\$25/\$55	\$20/\$40	\$25/\$50
Labs/X-rays	\$0	\$20/\$20	\$25/\$50	\$20/\$20	\$10/\$10/\$30
Emergency	\$100	\$200	\$250	\$200	\$275
Urgent care	\$50	\$20 in Area/\$75 out of Area	\$25	\$20	\$25
Outpatient Surgery	\$0	\$200/ \$500	\$100/\$150	\$200/\$500	\$150/\$200
Hospital	\$0	10 %	\$250-1st 3 days	\$350/1 st 3 Days	\$300/1st 3 days

Dental and Vision



Dental

- 4%(\$3.40) Increase on PPO
- No benefit change
- Price competitive to current dental plan offerings.

Vision/Life

- Vision rate pass issued
- No benefit change
- Basic Life rate pass issued (.25 per 1000).

Agenda Item No. 8

Item Title: Workplace Violence Prevention Plan

Purpose:

Recommend approving a Workplace Violence Prevention Plan

Issue:

Comply with new employer regulations imposed by Senate Bill 553

Managers Recommendation:

That the Board approve the proposed Workplace Violence Prevention Plan as presented.

Background:

Senate Bill 553 imposes workplace violence standards on virtually all employers. Most requirements take effect July 1, 2024. Employers have a number of obligations around workplace violence including:

- Creating a workplace violence prevention plan.
- Training employees on the plan.
- Recording workplace violence incidents.
- Maintaining related records and making certain records are available to employees and their representatives upon request.

Staff currently has monthly training sessions and has included the workplace violence training as part of its schedule.

The attached Workplace Violence Prevention Plan has been reviewed by legal counsel and presented to the AFC, who unanimously recommended moving it forward with a recommendation for Board approval.

Previous Actions:

None

Impact on Budget:

\$290.00 annual fee for Workplace Violence training for 10 learners.

WORKPLACE VIOLENCE PREVENTION PROGRAM for San Antonio Water Company

SAN ANTONIO WATER COMPANY'S Workplace Violence Prevention Plan (WVPP) addresses the hazards known to be associated with the four types of workplace violence as defined by Labor Code (LC) section 6401.9.

Date of Last Review: August 1, 2024

Date of Last Revision(s): August 1, 2024

DEFINITIONS

Emergency - Unanticipated circumstances that can be life threatening or pose a risk of significant injuries to employees or other persons.

Engineering controls - An aspect of the built space or a device that removes a hazard from the workplace or creates a barrier between the employee and the hazard.

Log - The violent incident log required by LC section 6401.9.

Plan - The workplace violence prevention plan required by LC section 6401.9.

Serious injury or illness - Any injury or illness occurring in a place of employment or in connection with any employment that requires inpatient hospitalization for other than medical observation or diagnostic testing, or in which an employee suffers an amputation, the loss of an eye, or any serious degree of permanent disfigurement, but does not include any injury or illness or death caused by an accident on a public street or highway, unless the accident occurred in a construction zone.

Threat of violence - Any verbal or written statement, including, but not limited to, texts, electronic messages, social media messages, or other online posts, or any behavioral or physical conduct, that conveys an intent, or that is reasonably perceived to convey an intent, to cause physical harm or to place someone in fear of physical harm, and that serves no legitimate purpose.

Workplace violence - Any act of violence or threat of violence that occurs in a place of employment.

Workplace violence includes, but is not limited to, the following:

- The threat or use of physical force against an employee that results in, or has a high likelihood of resulting in, injury, psychological trauma, or stress, regardless of whether the employee sustains an injury.
- An incident involving a threat or use of a firearm or other dangerous weapon, including the use of common objects as weapons, regardless of whether the employee sustains an injury.
- The following four workplace violence types:

Type 1 violence - Workplace violence committed by a person who has no legitimate business at the worksite and includes violent acts by anyone who enters the workplace or approaches employees with the intent to commit a crime.

Type 2 violence - Workplace violence directed at employees by customers, clients, patients,

students, inmates, or visitors.

Type 3 violence - Workplace violence against an employee by a present or former employee, supervisor, or manager.

Type 4 violence - Workplace violence committed in the workplace by a person who does not work there, but has or is known to have had a personal relationship with an employee.

Workplace violence does not include lawful acts of self-defense or defense of others.

Work practice controls - Procedures and rules which are used to effectively reduce workplace violence hazards.

RESPONSIBILITY

The WVPP administrator and General Manager have the authority and responsibility for implementing the provisions of this plan for San Antonio Water Company. If there are multiple persons responsible for the plan, their roles will be clearly described.

Responsible Persons	Job Title/Position	WVPP Responsibility(ies)	Phone #	Email
Brian Lee	General Manager	Overall responsibility for the plan; <i>Brian approves the final plan and any major changes.</i>]	(909) 982-4107	Blee@sawaterco.com
Teri Layton	Assistant General Manager WVPP administrator	Responsible for employee involvement and training; <i>Teri organizes safety meetings, updates training materials, and handles any reports of workplace violence.</i>	(909) 982-4107	Tlayton@sawaterco.com]
Kelly Mitchell	Senior Administrative Assistant	Responsible for emergency response, hazard identification, and coordination with other employers; <i>Kelly and Tommy conducts safety inspections, coordinates emergency response procedures, and communicates with other employers about the plan.</i>	(909) 982-4107	Kmitchell@sawaterco.com
Tommy Hudspeth	Water Utility Supervisor			TommyH@sawaterco.com

All managers and supervisors are responsible for implementing and maintaining the WVPP in their work areas and for answering employee questions about the WVPP.

EMPLOYEE ACTIVE INVOLVEMENT

The WVPP administrator ensures the following policies and procedures to obtain the active involvement of employees and authorized employee representatives in developing and implementing the plan:

- Management will work with and allow employees and authorized employee representatives to participate in:
 - Identifying, evaluating, and determining corrective measures to prevent workplace violence.

Management will address once a month during a staff meeting with employees to discuss identification of workplace violence related concerns/hazards, evaluate those hazards and/or concerns, and how to correct them. These meetings could involve brainstorming sessions, discussions of recent incidents, and reviews of safety procedures.

- Designing and implementing training

Employees are encouraged to participate in designing and implementing training programs, and their suggestions may be incorporated into the training materials. For example, an employee might suggest a new training scenario based on a recent incident.

- Reporting and investigating workplace violence incidents. Refer to Employee Handbook regarding reporting.

- Management will ensure that all workplace violence policies and procedures within this written plan are clearly communicated to all employees. Managers and supervisors will enforce the rules fairly and uniformly.
- All employees will follow all workplace violence prevention plan directives, policies, and procedures, and assist in maintaining a safe work environment. Refer to Employee Handbook.
- The plan shall be in effect at all times and in all work areas and be specific to the hazards and corrective measures for each work area and operation.

EMPLOYEE COMPLIANCE

Our system to ensure that employees comply with the rules and work practices that are designed to make the workplace more secure, and do not engage in threats or physical actions which create a security hazard for others in the workplace, include at a minimum:

- Effective procedures to ensure that supervisory and nonsupervisory employees comply with the WVPP
- Training employees, supervisors, and managers in the provisions of San Antonio Water Company Workplace Violence Prevention Plan (WVPP)

COMMUNICATION WITH EMPLOYEES

The Company encourages two-way communication between management and staff about workplace violence issues. Every employee needs to be committed to a safe and productive workplace. The following communication system is designed to facilitate a continuous flow of workplace violence prevention information between management and staff in a form that is readily understandable by all employees, and consists of one or more of the following:

- New employee orientation includes workplace violence prevention policies and procedures.
- Workplace violence prevention training programs.
- Regularly scheduled meetings that address security issues and potential workplace violence hazards
- Effective communication between employees and supervisors about workplace violence prevention and violence concerns.
- Posted or distributed workplace violence prevention information.
- How employees can report a violent incident, threat, or other workplace violence concern to employer or law enforcement without fear of reprisal or adverse action. Employees can anonymously report a violent incident, threat, or other violence concerns.
 - Call Local Law Enforcement – Upland Police Department - (909) 946-7624 [24 hours]
 - Dial 911 when in doubt
- Employees will not be prevented from accessing their mobile or other communication devices to seek emergency assistance, assess the safety of a situation, or communicate with a person to verify their safety. Employees' concerns will be investigated in a timely manner and they will be informed of the results of the investigation and any corrective actions to be taken.

WORKPLACE VIOLENCE INCIDENT REPORTING PROCEDURE

All threats or acts of workplace violence shall be reported to a supervisor or manager immediately, who will take appropriate action and also inform the WVPP administrator. If notifying a supervisor is not possible, employees will report incidents directly to the General Manager or WVPP administrator.

A strict non-retaliation policy is in place, and any instances of retaliation are dealt with swiftly and decisively.

EMERGENCY RESPONSE PROCEDURES

During an Emergency Event employees may receive notification by cell phone, texting, email or other means of communication. The intent of such communication is to alert employees of the presence, location, and nature of workplace violence emergencies.

Such communications may instruct employees to evacuate their present location or shelter in place. In the event of an emergency, including a Workplace Violence Emergency, contact the General Manager or WVPP administrator.

WORKPLACE VIOLENCE HAZARD IDENTIFICATION AND EVALUATION

The following policies and procedures are established and required to be conducted by the Company's WVPP administrator to ensure that workplace violence hazards are identified and evaluated:

- Inspections shall be conducted when the plan is first established, after each workplace violence incident, and whenever the employer is made aware of a new or previously unrecognized hazard.
- Review all submitted/reported concerns of potential hazards as they are received.

Periodic Inspections

Periodic inspections of workplace violence hazards will identify unsafe conditions and work practices. This may require assessment for more than one type of workplace violence.

Periodic inspections to identify and evaluate workplace violence and hazards will be performed by the following designated personnel in the following areas of the workplace:

Inspections for workplace violence hazards include assessing:

- The exterior and interior of the workplace for its attractiveness to robbers.
- The need for violence surveillance measures, such as mirrors and cameras.
- Procedures for employee response during a robbery or other criminal act, including our policy prohibiting employees, who are not security guards, from confronting violent persons or persons committing a criminal act.
- Procedures for reporting suspicious persons or activities.
- Effective location and functioning of emergency buttons and alarms.
- Posting of emergency telephone numbers for law enforcement, fire, and medical services.
- Whether employees have access to a telephone with an outside line.
- Whether employees have effective escape routes from the workplace.
- Whether employees have a designated safe area where they can go to in an emergency.
- Adequacy of workplace security systems, such as door locks, entry codes or badge readers, security windows, physical barriers, and restraint systems.
- Frequency and severity of threatening or hostile situations that may lead to violent acts by persons who are service recipients of our establishment.

- Employees' skill in safely handling threatening or hostile service recipients.
- Effectiveness of systems and procedures that warn others of actual or potential workplace violence danger or that summon assistance, e.g., alarms or panic buttons.
- The use of work practices such as the "buddy" system for specified emergency events.
- How well our establishment's management and employees communicate with each other.
- Access to and freedom of movement within the workplace by non-employees, including recently discharged employees or persons with whom one of our employees is having a dispute.
- Frequency and severity of employees' reports of threats of physical or verbal abuse by managers, supervisors, or other employees.
- Any prior violent acts, threats of physical violence, verbal abuse, property damage or other signs of strain or pressure in the workplace.

WORKPLACE VIOLENCE HAZARD CORRECTION

Workplace violence hazards will be evaluated and corrected in a timely manner. San Antonio Water Company will implement the following effective procedures to correct workplace violence hazards that are identified:

- If an imminent workplace violence hazard exists that cannot be immediately abated without endangering employee(s) , all exposed employee(s) will be removed from the situation except those necessary to correct the existing condition. Employees necessary to correct the hazardous condition will be provided with the necessary protection.
- All corrective actions taken will be documented and dated on the appropriate forms.
- Corrective measures for workplace violence hazards will be specific to a given work area.

PROCEDURES FOR POST INCIDENT RESPONSE AND INVESTIGATION

After a workplace incident, the General Manager or their designee will implement the following post-incident procedures:

- Visit the scene of an incident as soon as safe and practicable.
- Interview involved parties, such as employees, witnesses, law enforcement, and/or security personnel.
- Review security footage of existing security cameras if applicable.
- Examine the workplace for security risk factors associated with the incident, including any previous reports of inappropriate behavior by the perpetrator.
- Determine the cause of the incident.
- Take corrective action to prevent similar incidents from occurring.
- Record the findings and ensuring corrective actions are taken.
- Obtain any reports completed by law enforcement.
- The violent incident log will be used for every workplace violence incident and will include information, such as:
 - The date, time, and location of the incident.

- The workplace violence type or types involved in the incident.
- A detailed description of the incident.
- A classification of who committed the violence, including whether the perpetrator was a client or customer, family or friend of a client or customer, stranger with criminal intent, coworker, supervisor or manager, partner or spouse, parent or relative, or other perpetrator.
- A classification of circumstances at the time of the incident, including, but not limited to, whether the employee was completing usual job duties, working in poorly lit areas, rushed, working during a low staffing level, isolated or alone, unable to get help or assistance, working in a community setting, or working in an unfamiliar or new location.
- A classification of where the incident occurred, such as in the workplace, parking lot or other area outside the workplace, or other area.
- The type of incident, including, but not limited to, whether it involved any of the following:
 - Physical attack without a weapon, including, but not limited to, biting, choking, grabbing, hair pulling, kicking, punching, slapping, pushing, pulling, scratching, or spitting.
 - Attack with a weapon or object, including, but not limited to, a firearm, knife, or other object.
 - Threat of physical force or threat of the use of a weapon or other object.
 - Sexual assault or threat, including, but not limited to, rape, attempted rape, physical display, or unwanted verbal or physical sexual contact.
 - Animal attack.
 - Other.
- Consequences of the incident, including, but not limited to:
 - Whether security or law enforcement was contacted and their response.
 - Actions taken to protect employees from a continuing threat or from any other hazards identified as a result of the incident.
 - Information about the person completing the log, including their name, job title, and the date completed.
- Reviewing all previous incidents.
- Ensure that no personal identifying information is recorded or documented in the written investigation report. This includes information which would reveal identification of any person involved in a violent incident, such as the person's name, address, electronic mail address, telephone number, social security number, or other information that, alone or in combination with other publicly available information, reveals the person's identity.

TRAINING AND INSTRUCTION

All employees, including managers and supervisors, will have training and instruction on general and job-specific workplace violence prevention practices. These sessions could involve presentations, discussions, and practical exercises. Training and instruction will be provided as follows:

- When the WVPP is first established.

- Annually to ensure all employees understand and comply with the plan.
- Whenever a new or previously unrecognized workplace violence hazard has been identified and when changes are made to the plan. The additional training may be limited to addressing the new workplace violence hazard or changes to the plan.

San Antonio Water Company will provide its employees with training and instruction on the definitions found on page 1 of this plan and the requirements listed below:

- The employer's WVPP, how to obtain a copy of the employer's plan, and how to participate in development and implementation of the employer's plan.
- How to report workplace violence incidents or concerns to the employer or law enforcement without fear of reprisal.
- Workplace violence hazards specific to the employees' jobs, the corrective measures implemented, how to seek assistance to prevent or respond to violence, and strategies to avoid physical harm.
- The violent incident log and how to obtain copies of records pertaining to hazard identification, evaluation and correction, training records, and violent incident logs.
- Strategies to avoid/prevent workplace violence and physical harm, such as:
 - How to recognize workplace violence hazards including the risk factors associated with the four types of workplace violence.
 - Ways to defuse hostile or threatening situations.
- How to recognize alerts, alarms, or other warnings about emergency conditions and how to use identified escape routes or locations for sheltering.
- Employee routes of escape.
- Emergency medical care provided in the event of any violent act upon an employee
- Post-event trauma counseling for employees desiring such assistance.

EMPLOYEE ACCESS TO THE WRITTEN WVPP

The WVPP plan shall be available and easily accessible to employees, authorized employee representatives, and representatives of Cal/OSHA at all times.

RECORDKEEPING

San Antonio Water Company will:

- Create and maintain records of workplace violence hazard identification, evaluation, and correction, for a minimum of five (5) years.
- Create and maintain training records for a minimum of one (1) year and include the following:
 - Training dates.
 - Contents or a summary of the training sessions.
 - Names and qualifications of persons conducting the training.
 - Names and job titles of all persons attending the training sessions.
- Maintain violent incident logs for minimum of five (5) years.
- Maintain records of workplace violence incident investigations for a minimum of five (5) years.

- The records shall not contain medical information per subdivision (j) of section 56.05 of the Civil Code.
- All records of workplace violence hazard identification, evaluation, and correction; training, incident logs and workplace violence incident investigations required by LC section 6401.9(f), shall be made available to Cal/OSHA upon request for examination and copying.

EMPLOYEE ACCESS TO RECORDS

The following records shall be made available to employees and their representatives, upon request and without cost, for examination and copying within **15 calendar days of a request**:

- Records of workplace violence hazard identification, evaluation, and correction.
- Training records.
- Violent incident logs.

REVIEW AND REVISION OF THE WVPP

The San Antonio Water Company WVPP will be reviewed for effectiveness:

- At least annually.
- When a deficiency is observed or becomes apparent.
- After a workplace violence incident.
- As needed.

Review and revision of the WVPP will include the procedures listed in the EMPLOYEE ACTIVE INVOLVEMENT section of this WVPP, as well as the following procedures to obtain the active involvement of employees and authorized employee representatives in reviewing the plan's effectiveness:

- Review of the WVPP should include, but is not limited to:
 - Review of incident investigations and the violent incident log.
 - Assessment of the effectiveness of security systems, including alarms, emergency response, and security personnel availability (if applicable).
- Review that violence risks are being properly identified, evaluated, and corrected. Any necessary revisions are made promptly and communicated to all employees. [These revisions could involve changes to procedures, updates to contact information, and additions to training materials.

EMPLOYER REPORTING RESPONSIBILITIES

As required by California Code of Regulations (CCR), Title 8, Section 342(a). Reporting Work-Connected Fatalities and Serious Injuries, San Antonio Water Company will immediately report to Cal/OSHA any serious injury or illness (as defined by CCR, Title 8, Section 330(h)), or death (including any due to Workplace Violence) of an employee occurring in a place of employment or in connection with any employment.

Violent Incident Log

This log must be used for every workplace violence incident that occurs in our workplace. At a minimum, it will include the information required by LC section 6401.9(d).

The information that is recorded will be based on:

- Information provided by the employees who experienced the incident of violence.
- Witness statements.
- All other investigation findings.

All information that personally identifies the individual(s) involved will be omitted from this log, such as:

- Names
- Addresses – physical and electronic
- Telephone numbers
- Social security number

[Enter the date the incident occurred (Day, Month, Year)]

[Enter the time (or approximate time) that the incident occurred] a.m./p.m.

Location(s) of Incident	Workplace Violence Type (Indicate which type(s) (Type 1, 2,3,4))
[Enter location(s) where the incident occurred]	[Enter the workplace violence type(s)]

Check which of the following describes the type(s) of incident, and explain in detail:

Note: *It's important to understand that "Workplace Violence Type" and "Type of Incident" have separate requirements. For this part of the log, "Type of Incident" specifically refers to the nature or characteristics of the incident being logged. It does not refer to the type of workplace violence.*

- Physical attack without a weapon, including, but not limited to, biting, choking, grabbing, hair pulling, kicking, punching, slapping, pushing, pulling, scratching, or spitting.
- Attack with a weapon or object, including, but not limited to, a firearm, knife, or other object.
- Threat of physical force or threat of the use of a weapon or other object.
- Sexual assault or threat, including, but not limited to, rape, attempted rape, physical display, or unwanted verbal or physical sexual contact.
- Animal attack.
- Other.

Explain: [Provide a detailed description of the incident and any additional information on the violence incident type and what it included. Continue on separate sheet of paper if necessary.]

Workplace violence committed by: [For confidentiality, only include the classification of who committed the violence, including whether the perpetrator was a client or customer, family or friend of a client or customer, stranger with criminal intent, coworker, supervisor or manager, partner or spouse, parent or relative, or other perpetrator.]

Circumstances at the time of the incident: [write/type what was happening at the time of the incident, including, but not limited to, whether the employee was completing usual job duties, working in poorly lit areas, rushed, working during a low staffing level, isolated or alone, unable to get help or assistance, working in a community setting, or working in an unfamiliar or new location.]

Where the incident occurred: [Where the incident occurred, such as in the workplace, parking lot or other area outside the workplace, or other area.]

Consequences of the incident, including, but not limited to:

- Whether security or law enforcement was contacted and their response.
- Actions taken to protect employees from a continuing threat or from any other hazards identified as a result of the incident.

[Include information on what the consequences of the incident were.]

- Were there any injuries? Yes or No. Please explain:

[Indicate here if there were any injuries, if so, provide description of the injuries]

- Were emergency medical responders other than law enforcement contacted, such as a Fire Department, Paramedics, On-site First-aid certified personnel? Yes or No. If yes, explain below:

Did the severity of the injuries require reporting to Cal/OSHA? If yes, document the date and time this was done, along with the name of the Cal/OSHA representative contacted.

A copy of this violent incident log needs to be provided to the employer. Indicate when it was provided and to whom.

This violent incident log was completed by:

[Name of person completing this log], [Job Title of person completing this log], [Date this log was completed]

[Signature of person completing this log]

[Date of completion]

Agenda Item No. 9

Item Title: Well 31 Pipeline Replacement Project

Purpose:

To consider construction contract award for the Well 31 Pipeline Replacement project (Project Description Sheet attached).

Issue:

Does the Board agree with Staff’s recommendation to execute a fixed-cost construction services contract at \$413,585 for completion of the proposed project?

Manager’s Recommendation:

Authorize the General Manager to execute a fixed-cost construction services contract for completion of the proposed project.

Background:

This project was included in the 2024 Budget.

Project design was completed and bid during the month of October and November 2024. Bids were received and opened on November 14, 2024 (last Thursday). A total of 3 bids were received.

Merlin Johnson	\$618,135
Norstar Construction.....	\$489,176
CP Construction	\$413,585

Engineer has reviewed the bids and finds that CP Construction is the lowest responsible bidder at \$413,585.

Impact on the Budget:

Original Budget.....	\$420,000
Professional Services Contract.....	\$86,500
<u>Proposed Construction Contract.....</u>	<u>\$413,585</u>
Proposed Contracts.....	\$500,085

Previous Actions:

Project was included in the 2022, 2023 and 2024 Company Budgets. Award of Professional Services Contract at May 2023 Board Meeting

Project Title: Well 31 Pipeline Relocation/Replacement

Total Budget: **\$420,000 (1,400 LF x \$300/LF)**

Soft Costs (Engineering, Permitting, Easements, Inspection, Testing): \$63,000 (15% of project cost)

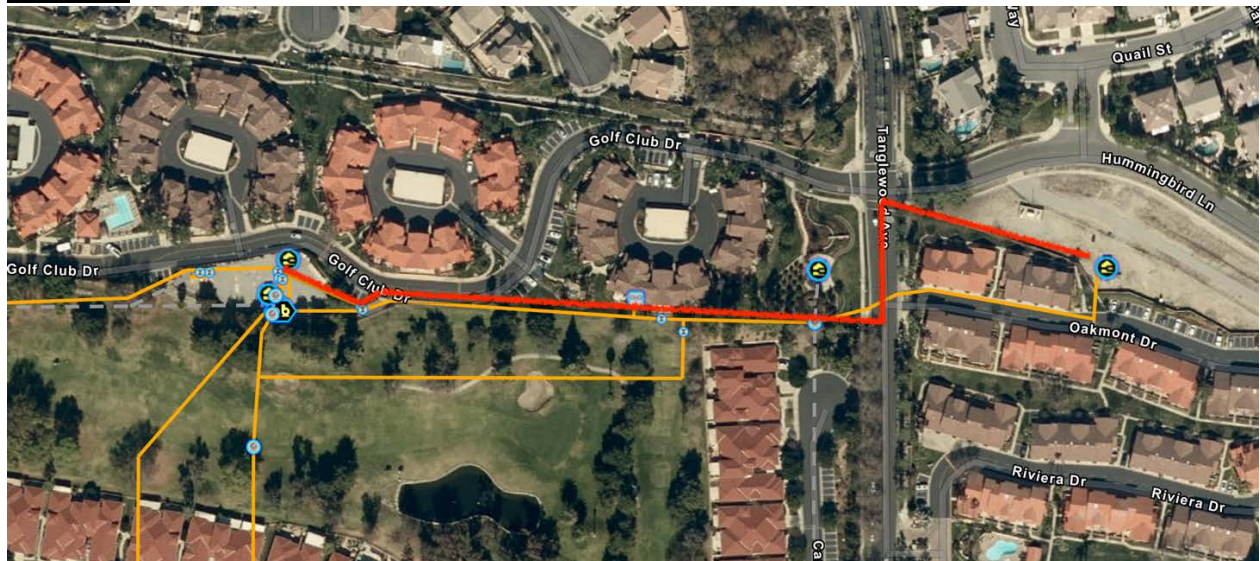
Construction: \$357,000 (85% of project cost)

Schedule:

Design: March 2022 – May 2022

Construction: August 2022 – October 2022

Location:



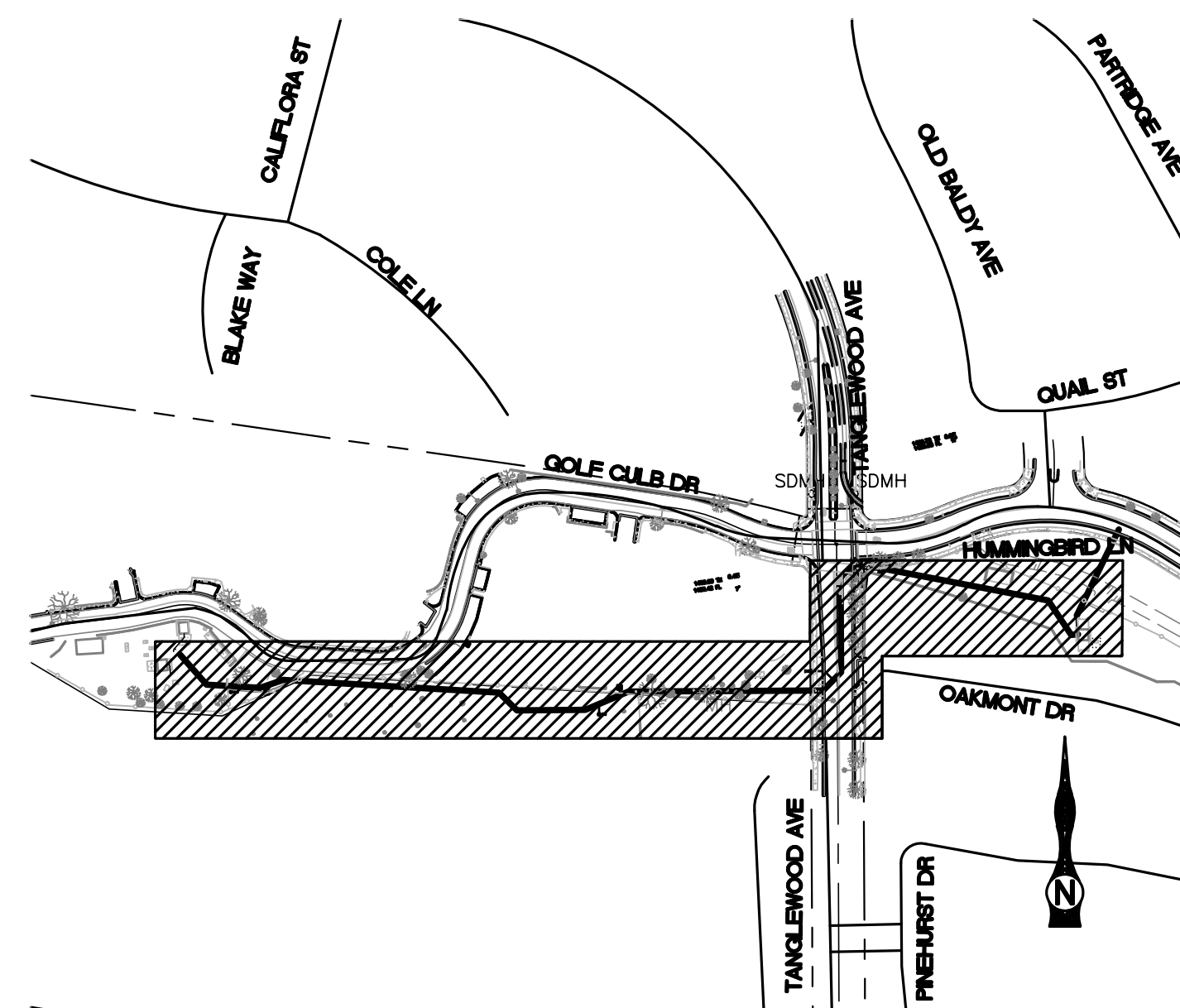
Justification:

Replace approximately 1,400 linear feet of 14" pipeline from Well 31 delivering water to facilities at Golf Club Drive along backside of homes and within Upland Hills Country Club waterline easement. Abandon aged pipeline. The current steel pipeline was installed before 1976 and has exceeded its useful life. Identified by staff as a high maintenance pipeline.

SAN ANTONIO WATER COMPANY

WELL 31 PIPELINE REPLACEMENT

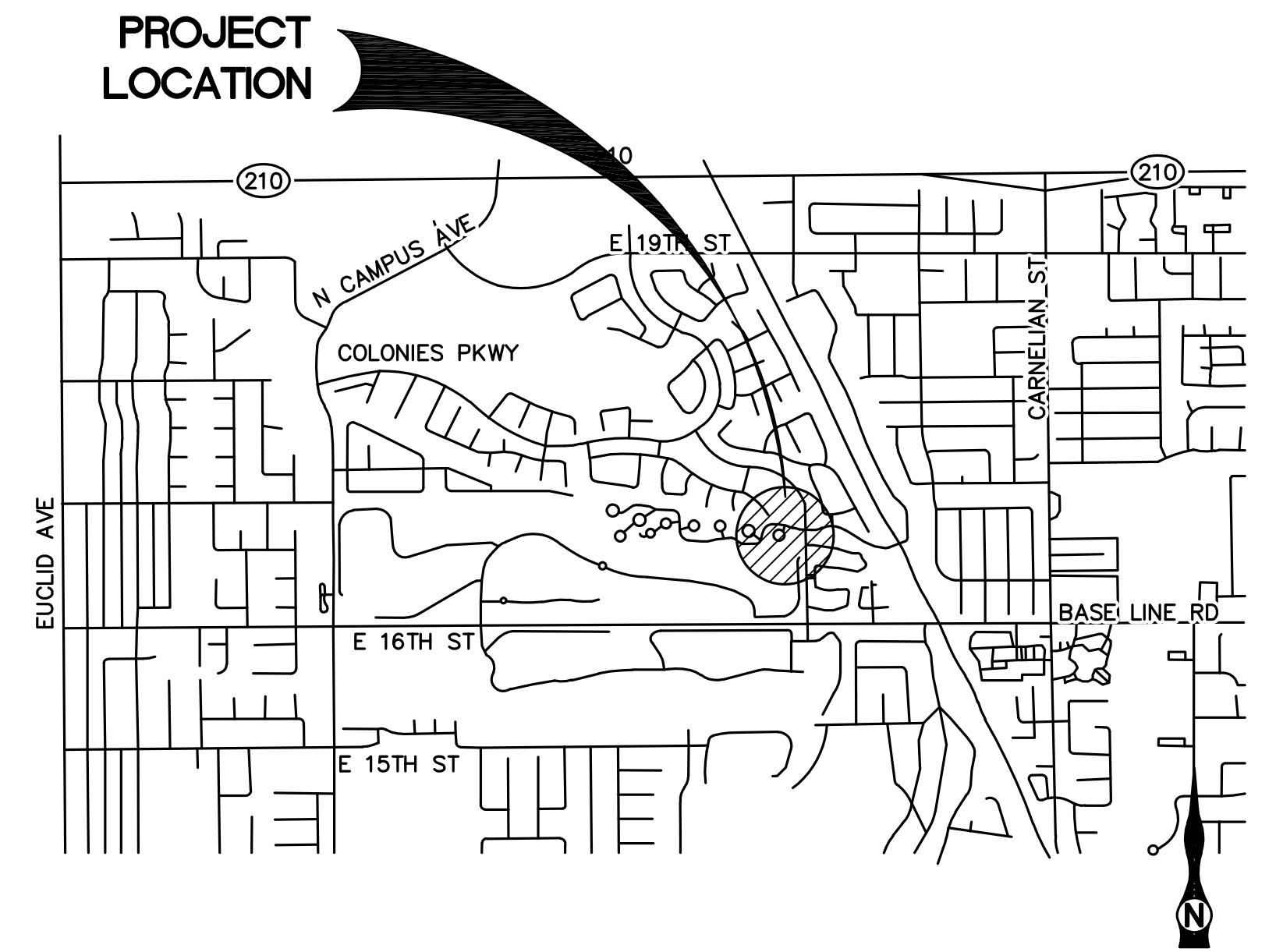
COUNTY OF SAN BERNARDINO



LOCATION MAP:
SCALE: 1"=40'

SHEET INDEX

SHT. NO.	DWG. NO.	DESCRIPTION
1.	T1	TITLE SHEET
2.	G1	GENERAL NOTES
3.	C1	WATER PLAN STA. 10+00.00 TO 21+00.00
4.	C2	WATER PLAN STA. 21+00.00 TO 23+39.00
5.	D1	DETAILS SHEET



VICINITY MAP

Underground Service Alert



KNOW WHAT'S BELOW
CALL BEFORE YOU DIG
TWO WORKING DAYS BEFORE YOU DIG

REVISIONS					
MARK	DATE	INITIAL	DESCRIPTION	DATE	APP'D

BENCHMARK:
2" CITY OF UPLAND BRASS DISC
IN PCG SIDEWALK ON BRIDGE
OVER THE CUCAMONGA CREEK,
FLOOD CONTROL CHANNEL, 40'
SOUTH OF CL BASELINE AND 88'
EAST OF CL ALTA CUESTA
ELEV.= 1448.707'



TKE ENGINEERING, INC.
2305 CHICAGO AVENUE
RIVERSIDE, CA 92507
(951) 680-0440
FAX: (951) 680-0490
TERRY M. RENNER REGISTERED ENGINEER No. 66984

DRAWN BY: JR
DESIGNED BY: SK
CHECKED BY: TMR
RECOMMENDED BY:

APPROVED BY:
Brian C. Lee 10/15/2024
SAN ANTONIO WATER COMPANY GENERAL MANAGER DATE

SAN ANTONIO WATER CO.
WELL 31 PIPELINE REPLACEMENT
PROJECT
TITLE SHEET

WATER DRAWING NO. —
SHEET 1
OF 5 SHEET
DRAWING NO. T1

GENERAL NOTES:

- ALL WORK AND MATERIAL SHALL CONFORM TO THE HIGHER STANDARD IN EITHER "STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF WATER FACILITIES, WATER MAINS AND APPURTENANCES, AS ESTABLISHED BY THE SAN ANTONIO WATER COMPANY, OR "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION," LATEST ISSUE AND AMENDMENTS, KNOWN AS THE "GREEN BOOK."
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR LOCATING AND PROTECTING FROM DAMAGE ALL EXISTING FACILITIES AND IMPROVEMENTS WHETHER OR NOT SHOWN ON THESE PLANS. THE FACILITIES AND IMPROVEMENTS ARE BELIEVED TO BE CORRECTLY SHOWN BUT THE CONTRACTOR IS REQUIRED TO SATISFY HIMSELF AS TO THE COMPLETENESS AND ACCURACY OF THE LOCATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE APPROPRIATE UTILITY COMPANIES FOR THE PURPOSE OF LOCATING ALL UNDERGROUND IMPROVEMENTS WITHIN THE PROJECT AREA PRIOR TO EXCAVATION. CALL 1-800-422-4133.
- QUANTITIES SHOWN ON THE PLANS ARE ESTIMATED. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE ACCURACY OF QUANTITIES BEFORE BIDDING ON ANY ITEM.
- THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE STATE OF CALIFORNIA, DEPARTMENT OF INDUSTRIAL RELATIONS, DIVISION OF INDUSTRIAL SAFETY, BEFORE STARTING THE EXCAVATION OF ANY TRENCH FIVE FEET OR MORE IN DEPTH. SHORING, BRACING, SLOPING AND ALL OTHER PROVISIONS FOR WORKER PROTECTION SHALL CONFORM TO THE PROVISIONS CONTAINED IN ARTICLE 6 OF THE STATE OF CALIFORNIA, DEPARTMENT OF INDUSTRIAL RELATIONS CONSTRUCTION SAFETY ORDERS, EFFECTIVE AUGUST 8, 1965, AND AS AMENDED JULY 27, 1973. IF VARIATION FROM THESE STANDARDS IS DESIRED, A DETAILED PLAN SHALL BE PREPARED BY A REGISTERED CIVIL ENGINEER.
- ALL WATER AND SEWER MAINS SHALL MEET THE STATE OF CALIFORNIA, DEPARTMENT OF HEALTH REQUIREMENTS FOR THE SEPARATION BETWEEN WATER MAINS AND SANITARY SEWER.
- THE CONTRACTOR IS REQUIRED TO REPAIR THE EXISTING PAVEMENT AND TRENCH WHICH IS REMOVED OR DAMAGED BY HIS OPERATIONS IN ACCORDANCE SAN BERNARDINO COUNTY STANDARD DRAWING AND SPECS.
- FIRE HYDRANTS SHALL BE INSTALLED PER SAWCO STANDARD DRAWING NO. 15 (2 OF 2) ON FILE AT THE SAN ANTONIO WATER COMPANY.
- CONNECTIONS TO EXISTING WATER MAINS SHALL BE AS SHOWN ON THE DRAWINGS.
- MINIMUM COVER OVER WATERLINE IS 32".
- ACCESS TO WATER VALVES SHALL BE MAINTAINED DURING ALL PHASES OF THE PROJECT. VALVE BOXES TO REMAIN FREE AND CLEAR OF DEBRIS.
- ALL SHUT DOWNS OF EXISTING WATER MAINS TO BE DONE BY AND COORDINATED WITH THE SAN ANTONIO WATER COMPANY. CONTRACTOR SHALL NOTIFY ALL AFFECTED WATER USERS 72 HOURS IN ADVANCE OF SHUTDOWN.

PROJECT SPECIFIC NOTES:

- ALL TRENCH EXCAVATION SHALL COMPLY WITH THE MOST CURRENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STANDARDS. TRENCH BACKFILL SHALL BE PLACED IN NO GREATER THAN 4-INCH LIFTS IN HAND COMPACTED OR NO GREATER THAN 8-INCH LIFTS IF POWER COMPACTED. TRENCH BACKFILL COMPACTION WITHIN U.S. ARMY CORPS RIGHT-OF-WAY SHALL BE COMPACTED TO 95 PERCENT RELATIVE COMPACTION (ASTM 1557).

WATER CONSTRUCTION NOTES:

- INSTALL 12" C900 DR14 PRESSURE CLASS 305, POLYVINYL CHLORIDE (P.V.C.) PIPE PER SAN ANTONIO WATER COMPANY STANDARD DRAWING NO. SAWCO-4 WITH DUCTILE IRON FITTINGS.
- INSTALL 12" BUTTERFLY VALVE (FL x FL) PER SAN ANTONIO WATER COMPANY STANDARD DRAWING NO. SAWCO-6.
- INSTALL 12" DUCTILE IRON 90° ELBOW (MJ x MJ).
- INSTALL 12" DUCTILE IRON 45° ELBOW (MJ x MJ).
- INSTALL 12" DUCTILE IRON 22.5° ELBOW (MJ x MJ).
- INSTALL 12" DUCTILE IRON 11.25° ELBOW (MJ x MJ).
- INSTALL FLEXIBLE COUPLING CONNECTION.
- INSTALL 2" AIR RELEASE VALVE AND ENCLOSURE PER SAN ANTONIO WATER COMPANY STANDARD DRAWING NO. SAWCO-4.
- INSTALL TEMPORARY 12" END CAP WITH 2.5" RISER PIPING FOR FLUSHING AND DISINFECTION.
- CONSTRUCT 4" BLOW-OFF ASSEMBLY PER SAN ANTONIO WATER COMPANY STANDARD DRAWING NO. SAWCO-8.
- CONSTRUCT THRUST BLOCK IN ACCORDANCE WITH SAN ANTONIO WATER COMPANY STANDARD DRAWING NO. SAWCO-13.
- RECONSTRUCT EXISTING CURB RETURN PER DETAIL 1 ON SHEET 5.
- INSTALL 12" SPRING LOADED SWING CHECK VALVE, MUELLER OR AVK, CL150, EPOXY COATED, FLANGED ENDS.
- CONSTRUCT AC PAVEMENT TRENCH REPAIR PER CITY OF UPLAND STANDARD DRAWING CU-Z-3.
- CONSTRUCT 8" (TYPE A) CURB AND GUTTER PER CITY OF UPLAND STANDARD DRAWING CU-R-2.
- CONSTRUCT 4" MIN. PCC SIDEWALK PER CITY OF UPLAND STANDARD DRAWING CU-P-3.
- CONSTRUCT CURB RAMP PER CITY OF UPLAND STANDARD DRAWING CU-P-8 CASE E.
- CONSTRUCT CROSS GUTTER AND SPANDREL PER CITY OF UPLAND STANDARD DRAWING CU-R-3.

PRIVATE ENGINEER'S NOTE:

THE EXISTENCE AND APPROXIMATE LOCATION OF ANY UNDERGROUND UTILITIES OR SUBSTRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES OR STRUCTURES EXCEPT AS SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO LIABILITY AS TO THE EXACT LOCATION OF SAID LINES NOR FOR UTILITIES OR IRRIGATION LINES WHOSE LOCATIONS ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY AND IRRIGATION COMPANIES PRIOR TO WORK ON EXCAVATION TO DETERMINE EXACT LOCATION OF ALL LINES AFFECTING THIS WORK, WHETHER OR NOT SHOWN HERON, AND FOR ANY DAMAGE OR PROTECTION OF THESE LINES.

NOTICE TO CONTRACTORS:

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK OF THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

SURVEY MONUMENT NOTE:

SURVEY MONUMENTS THAT EXIST AS SHOWN ON RECORDED MAPS, HIGHWAY MAPS OR POINTS THAT PROVIDE SURVEY CONTROL WITHIN THE CONSTRUCTION AREA, SHALL BE LOCATED AND REFERENCED OUT BY A LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER (AUTHORIZED TO PRACTICE LAND SURVEYING), AND CORNER RECORDS SHALL BE FILED WITH THE COUNTY SURVEYOR PRIOR TO THE START OF CONSTRUCTION. THESE CORNER RECORDS SHALL DESCRIBE THE MONUMENTS FOUND WITH THE DISTANCES TO REFERENCE POINTS FOR RESETTING OF THE SURVEY MONUMENTS. WHEN CONSTRUCTION IS COMPLETED, MONUMENTS SHALL BE SET AND CORNER RECORDS SHALL BE FILED WITH THE COUNTY SURVEYOR SHOWING THE NEW MONUMENTS.

CONTRACTOR'S RESPONSIBILITY FOR SAFETY:

IN SUBMITTING A BID FOR THIS WORK THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THIS PROJECT; INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNERS AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

SAN ANTONIO WATER COMPANY

TERI LAYTON, PROJECT MANAGER
139 N. EUCLID AVENUE
UPLAND, CA 91786
PHONE: (909) 982-4107
FAX: (909) 920-3047

BASIS OF BEARING

THE COORDINATES AND BEARINGS SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATES SYSTEM OF 1983, ZONE 5, (EPOCH 2017.50) IN ACCORDANCE WITH THE CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 8801-8819; SAID COORDINATES AND BEARINGS ARE BASED LOCALLY UPON FIELD-OBSERVED TIES TO THE FOLLOWING CALIFORNIA SPATIAL REFERENCE NETWORK, OR EQUIVALENT FROM STATION RTCM0028 (N:1855454.8820, E:6757465.4550) TO STATION RTCM0019 (N:1870992.7890, E:6636093.0500) WITH A BEARING OF N82°42'17"W.

LEGEND OF SYMBOLS AND ABBREVIATIONS

ABAN	ABANDONED	---	EXISTING ROAD CENTERLINE
APN	ASSESSORS PARCEL NUMBER	---	EXISTING RIGHT-OF-WAY
AVE	AVENUE	---	EXISTING EDGE OF PAYMENT
BSMWC	BOX SPRINGS MUTUAL WATER COMPANY	---	EXISTING CURB AND GUTTER
CL	CENTERLINE	---	EXISTING STREET LIGHT
CL	PRESSURE CLASS	---	EXISTING UTILITY POLE
DI	DUCTILE IRON	---	EXISTING SIGN
DWG	DRAWING	---	EXISTING WATER LINE
EL	ELEVATION	---	PROPOSED WATER LINE
ELEC	ELECTRICAL	---	EXISTING UNDERGROUND ELECTRICAL LINE
EXIST	EXISTING	---	EXISTING OVERHEAD ELECTRICAL LINE
FE	FLANGED END	---	EXISTING UNDERGROUND FIBER OPTIC LINE
FO	FIBER OPTIC	---	EXISTING OVERHEAD FIBER OPTIC LINE
FH	FIRE HYDRANT	---	EXISTING OVERHEAD TELEPHONE LINE
G	GAS	---	EXISTING SEWER LINE
GB	GRADE BREAK	---	EXISTING STORM DRAIN LINE
HPG	HIGH PRESSURE GAS	---	EXISTING GAS LINE
HP	HIGH POINT	---	EXISTING TELEPHONE LINE
INV	INVERT	---	EXISTING SEWER MANHOLE
LEB	LARGE END BELL REDUCER	---	EXISTING STORM DRAIN MANHOLE
LF	LINEAR FEET	---	EXISTING FIRE HYDRANT
LT	LEFT	---	PROPOSED FIRE HYDRANT
MH	MANHOLE	---	EXISTING VALVE
MIN	MINIMUM	---	PROPOSED RESILIENT SEAT GATE VALVE
MJ	MECHANICAL JOINT	---	EXISTING AIR VAC/RELEASE VALVE
N.T.S	NOT TO SCALE	---	PROPOSED AIR VAC/RELEASE VALVE
NO.	NUMBER	---	EXISTING REDUCER/INCREASER
OH	OVERHEAD	---	PROPOSED REDUCER/INCREASER
PE	PLAIN END	---	EXISTING BLOW OFF VALVE
PO	PUSH ON	---	PROPOSED BLOW OFF VALVE
PP	POWER POLE	---	EXISTING WATER METER SERVICE
PROP	PROPOSED	---	EXISTING WATER METER SERVICE
PVC	POLYVINYL CHLORIDE	---	PROPOSED RESTRAINED FLANGE ADAPTER
RCB	REINFORCED CONCRETE BOX	---	PROPOSED MECHANICAL JOINT RESTRAINT
RCFD	RIVERSIDE COUNTY FLOOD CONTROL DISTRICT	---	PROPOSED ADAPTER
RSGV	RESILIENT SEAT GATE VALVE	---	PROPOSED ADAPTER
RT	RIGHT	---	PROPOSED TEE
S	SEWER	---	PROPOSED BEND
ST	STREET	---	PROPOSED CAP OR PLUG
STA	STATION	---	PROPOSED RESTRAINED FLEXIBLE COUPLING
STD	STANDARD	---	ANGLE
SD	STORM DRAIN	---	THRUST BLOCK
SDMH	STORM DRAIN MANHOLE	---	
SMH	SEWER MANHOLE	---	
TSB	TRAFFIC SIGNAL BOX	---	
W	WATER	---	
WM	WATER METER	---	
WV	WATER VALVE	---	
R/W	RIGHT OF WAY	---	
L	LENGTH	---	

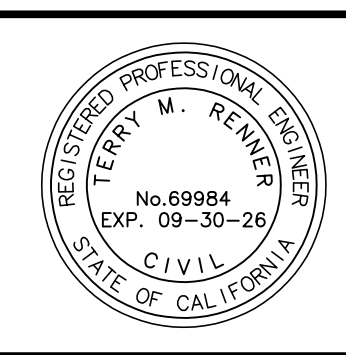
Underground Service Alert



KNOW WHATS BELOW
CALL BEFORE YOU DIG
TWO WORKING DAYS BEFORE YOU DIG

REVISIONS					
MARK	DATE	INITIAL	DESCRIPTION	DATE	APP'VD

BENCHMARK:
2" CITY OF UPLAND BRASS DISC
IN PCC SIDEWALK ON BRIDGE
OVER THE CUCAMONGA CREEK,
FLOOD CONTROL CHANNEL, 40'
SOUTH OF CL BASELINE AND 88'
EAST OF CL ALTA CUESTA
ELEV.= 1448.707'



TKE ENGINEERING, INC.
2305 CHICAGO AVENUE
RIVERSIDE, CA 92507
(951) 680-0440
FAX: (951) 680-0490

TERRY M. RENNEN REGISTERED ENGINEER No. 66984

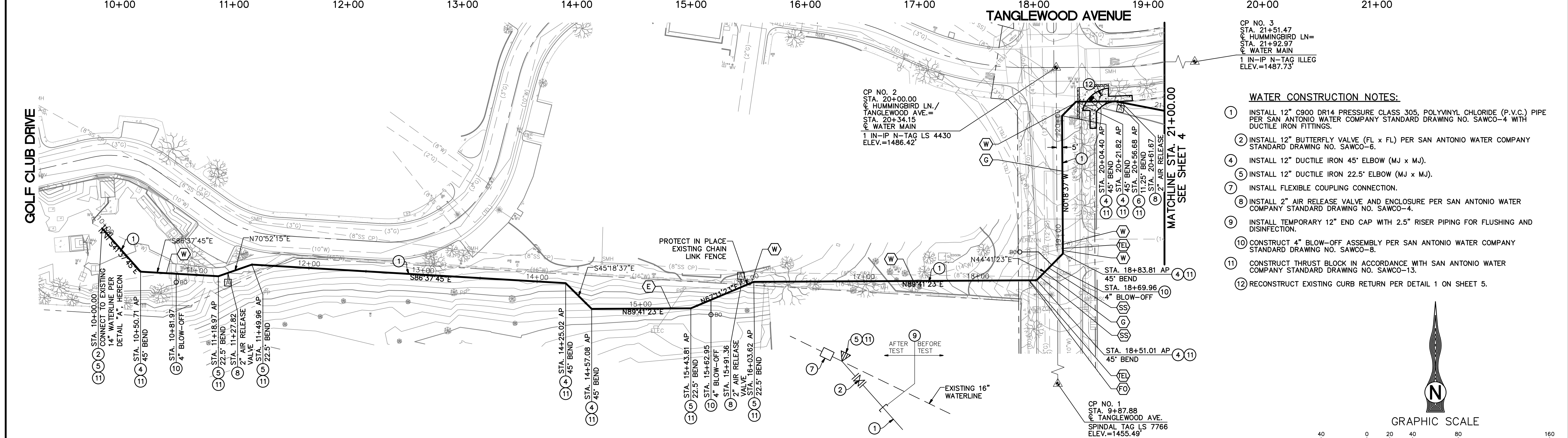
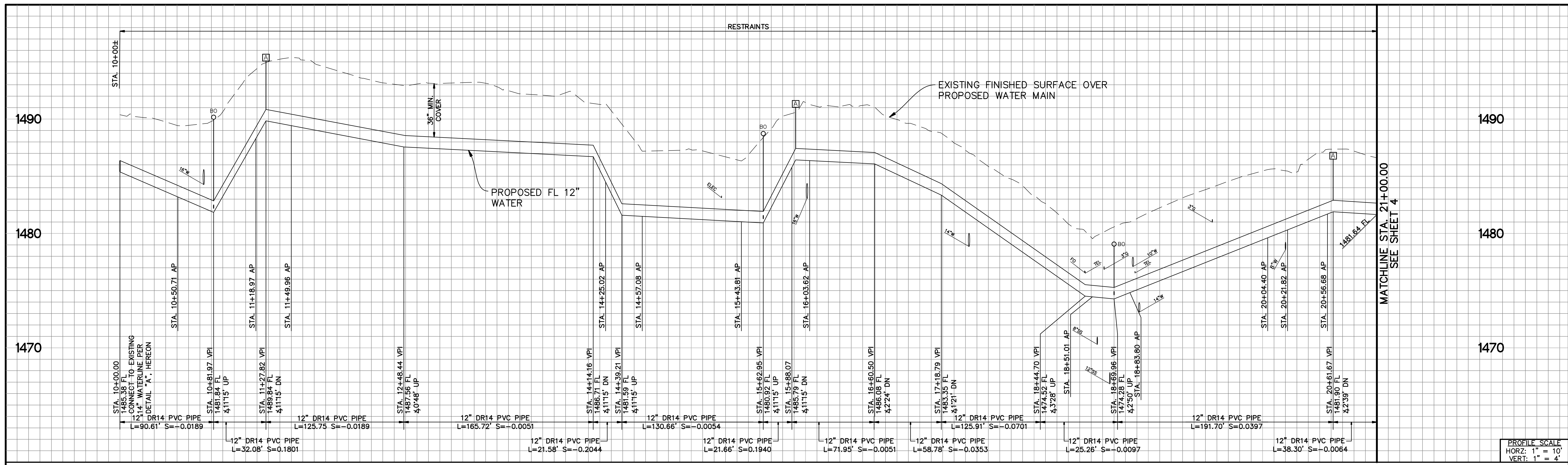
DRAWN BY:	JR
DESIGNED BY:	SK
CHECKED BY:	TMR
RECOMMENDED BY:	

APPROVED BY:
Brian C. Lee
SAN ANTONIO WATER COMPANY GENERAL MANAGER

10/15/2024
DATE

SAN ANTONIO WATER CO.
WELL 31 PIPELINE REPLACEMENT
PROJECT
GENERAL NOTES

WATER DRAWING NO.	---
SHEET	2
OF 5 SHEET	
DRAWING NO.	G1



CP NO. 3
 STA. 21+51.47
 HUMMINGBIRD LN=
 STA. 21+92.97
 WATER MAIN
 1 IN-IP N-TAG ILLEG
 ELEV.=1487.73'

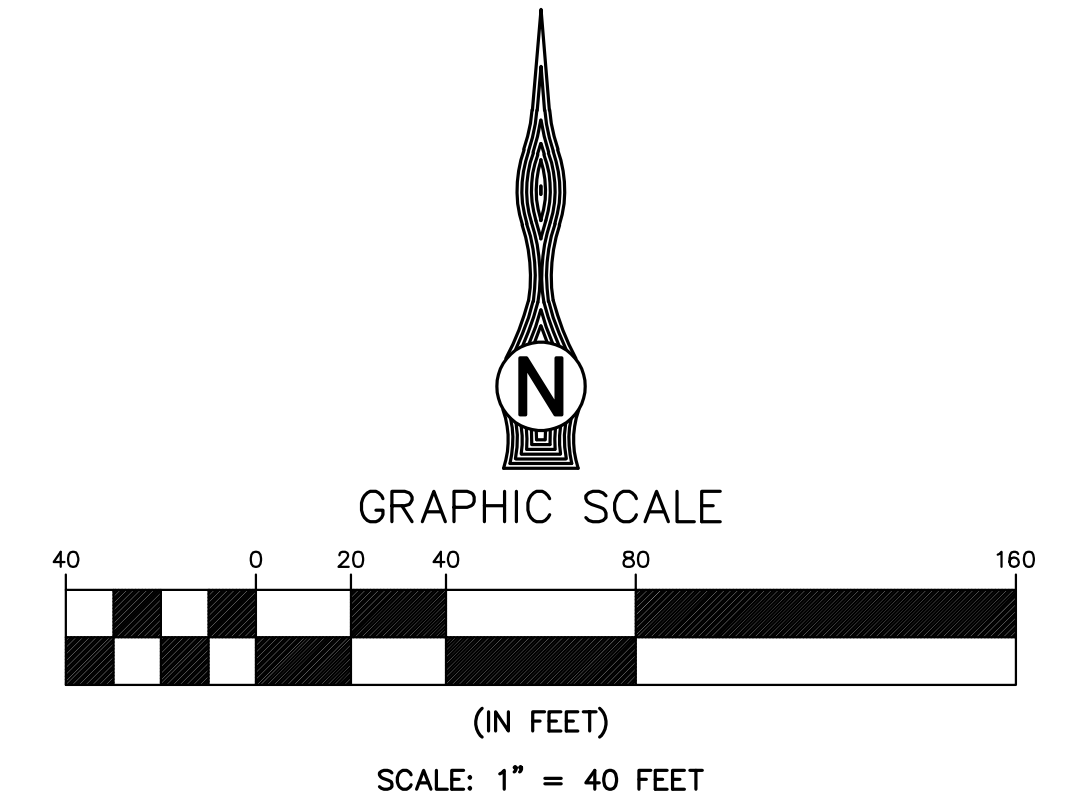
CP NO. 2
 STA. 20+00.00
 HUMMINGBIRD LN/
 TANGLEWOOD AVE. =
 STA. 20+34.15
 WATER MAIN
 1 IN-IP N-TAG LS 4430
 ELEV.=1486.42'

CP NO. 1
 STA. 9+87.88
 TANGLEWOOD AVE.
 SPINDAL TAG LS 7766
 ELEV.=1455.49'

- WATER CONSTRUCTION NOTES:**
- INSTALL 12" C900 DR14 PRESSURE CLASS 305, POLYVINYL CHLORIDE (P.V.C.) PIPE PER SAN ANTONIO WATER COMPANY STANDARD DRAWING NO. SAWCO-4 WITH DUCTILE IRON FITTINGS.
 - INSTALL 12" BUTTERFLY VALVE (FL x FL) PER SAN ANTONIO WATER COMPANY STANDARD DRAWING NO. SAWCO-6.
 - INSTALL 12" DUCTILE IRON 45' ELBOW (MJ x MJ).
 - INSTALL 12" DUCTILE IRON 22.5' ELBOW (MJ x MJ).
 - INSTALL FLEXIBLE COUPLING CONNECTION.
 - INSTALL 2" AIR RELEASE VALVE AND ENCLOSURE PER SAN ANTONIO WATER COMPANY STANDARD DRAWING NO. SAWCO-4.
 - INSTALL TEMPORARY 12" END CAP WITH 2.5" RISER PIPING FOR FLUSHING AND DISINFECTION.
 - CONSTRUCT 4" BLOW-OFF ASSEMBLY PER SAN ANTONIO WATER COMPANY STANDARD DRAWING NO. SAWCO-8.
 - CONSTRUCT THRUST BLOCK IN ACCORDANCE WITH SAN ANTONIO WATER COMPANY STANDARD DRAWING NO. SAWCO-13.
 - RECONSTRUCT EXISTING CURB RETURN PER DETAIL 1 ON SHEET 5.

DETAIL "A"
 SCALE: N.T.S.

CP No.	NORTHING	EASTING	BEARING	DISTANCE
1	2031090.09	6742076.56	N0°37'06"W	1986.21'
2	2033076.18	6742055.16	S81°33'40"	150.01'
3	1867863.81	6675388.50		

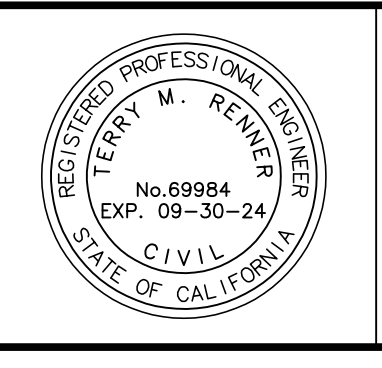


Underground Service Alert

KNOW WHAT'S BELOW
 CALL BEFORE YOU DIG
 TWO WORKING DAYS BEFORE YOU DIG

REVISIONS					
MARK	DATE	INITIAL	DESCRIPTION	DATE	APP'VD

BENCHMARK:
 2" CITY OF UPLAND BRASS DISC
 IN PCC SIDEWALK ON BRIDGE
 OVER THE CUCAMONGA CREEK
 FLOOD CONTROL CHANNEL, 40'
 SOUTH OF CL BASELINE AND 88'
 EAST OF CL ALTA CUESTA
 ELEV.= 1448.707'



TKE
 ENGINEERING
 TERRY M. RENNER REGISTERED ENGINEER No. 66984

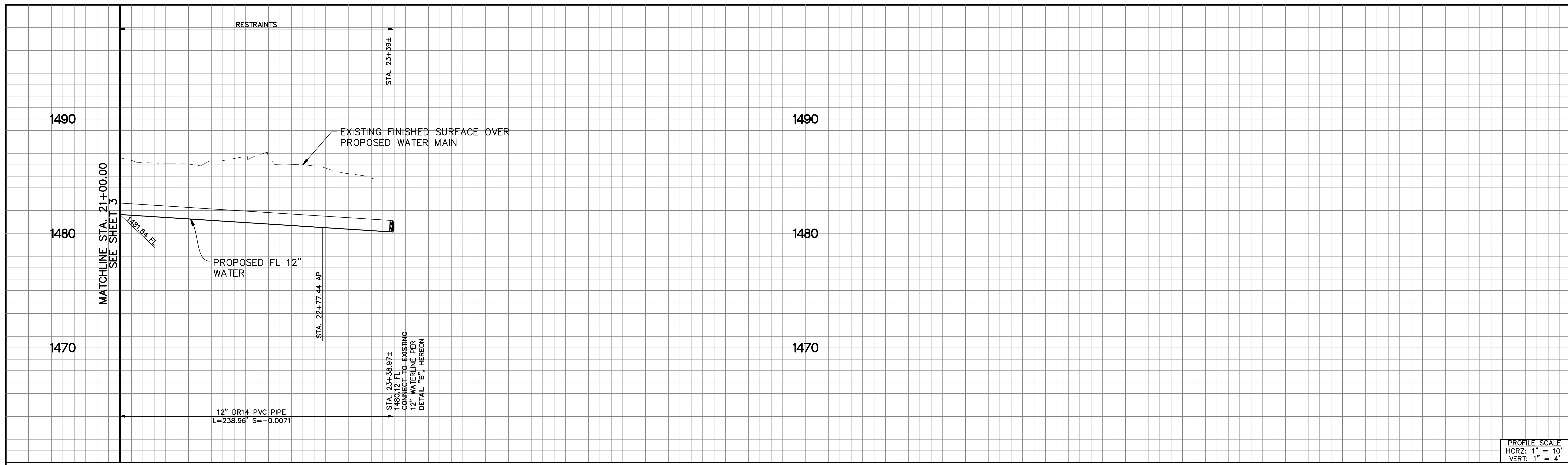
TKE ENGINEERING, INC.
 2305 CHICAGO AVENUE
 RIVERSIDE, CA 92507
 (951) 680-0440
 FAX: (951) 680-0490

DRAWN BY: JR
 DESIGNED BY: SK
 CHECKED BY: TMR
 RECOMMENDED BY:

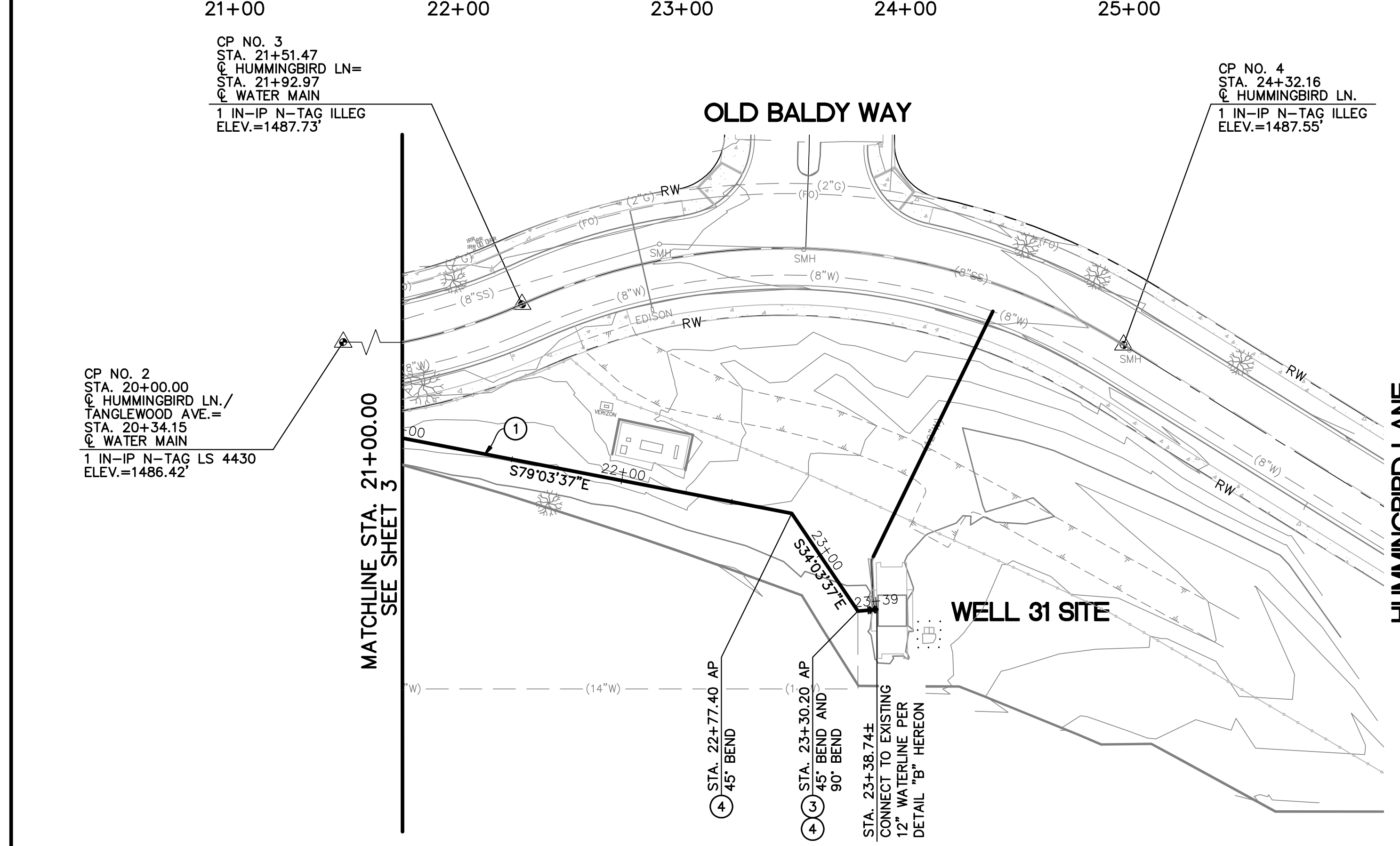
APPROVED BY:
Brian C. Lee 10/15/2024
 SAN ANTONIO WATER COMPANY GENERAL MANAGER DATE

SAN ANTONIO WATER CO.
 WELL 31 PIPELINE REPLACEMENT
 PROJECT
 PLAN/PROFILE SHEET
 STA. 10+00.00 TO STA. 21+00.00

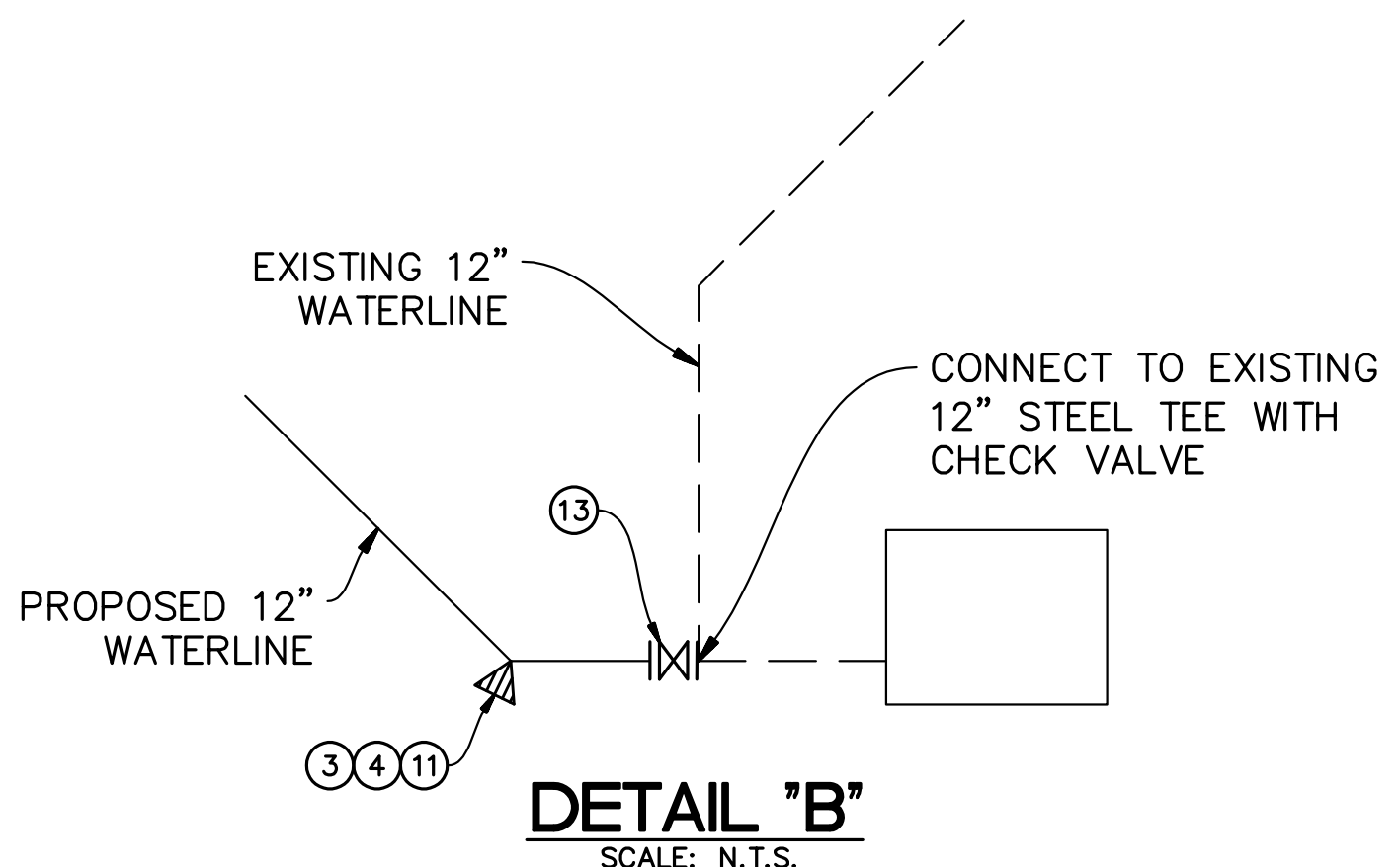
WATER DRAWING NO. —
 SHEET **3**
 OF 5 SHEET
 DRAWING NO. C1



PROFILE SCALE
 HORZ: 1" = 10'
 VERT: 1" = 4'

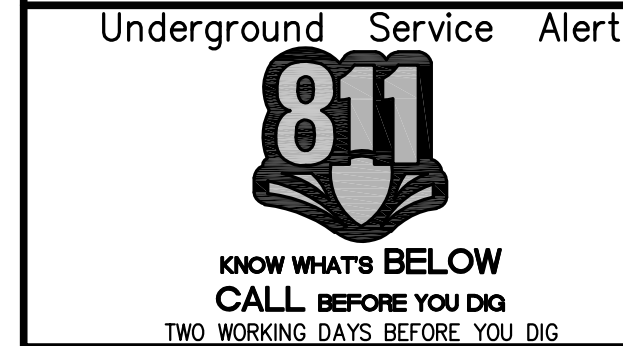
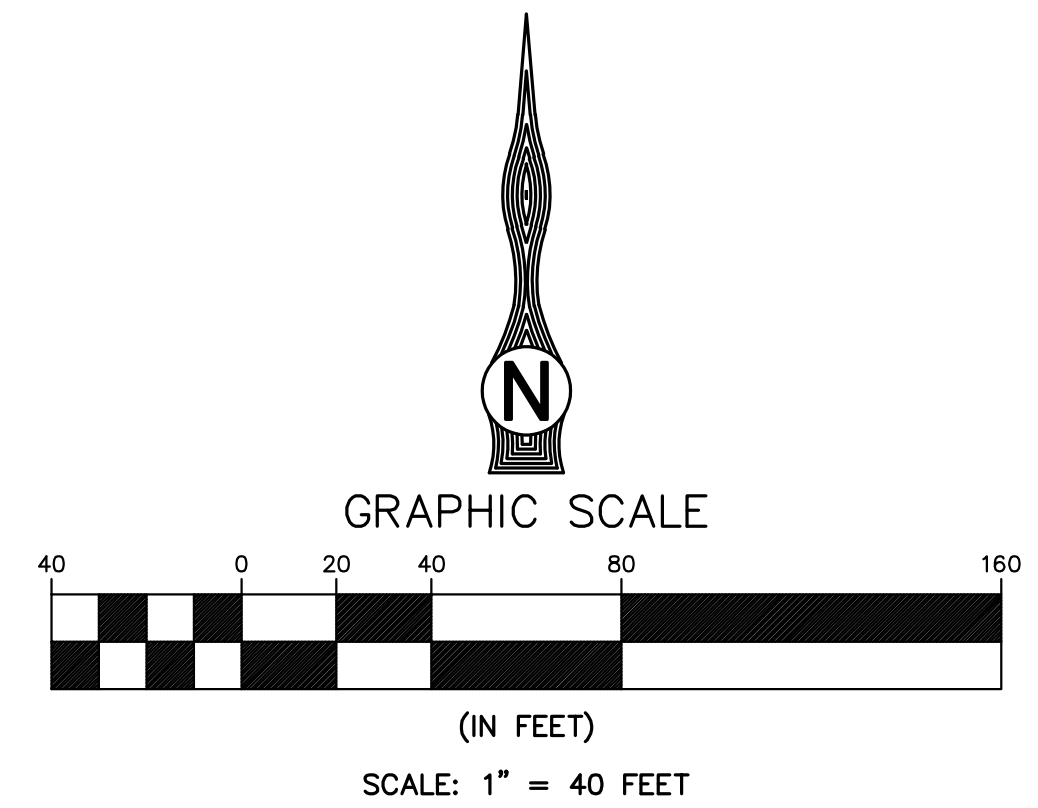


- WATER CONSTRUCTION NOTES:**
- ① INSTALL 12" C900 DR14 PRESSURE CLASS 305, POLYVINYL CHLORIDE (P.V.C.) PIPE PER SAN ANTONIO WATER COMPANY STANDARD DRAWING NO. SAWCO-4 WITH DUCTILE IRON FITTINGS.
 - ③ INSTALL 12" DUCTILE IRON 90° ELBOW (MJ x MJ).
 - ④ INSTALL 12" DUCTILE IRON 45° ELBOW (MJ x MJ).
 - ⑪ CONSTRUCT THRUST BLOCK IN ACCORDANCE WITH SAN ANTONIO WATER COMPANY STANDARD DRAWING NO. SAWCO-13.
 - ⑬ INSTALL 12" SPRING LOADED SWING CHECK VALVE, MUELLER OR AVK, CL150, EPOXY COATED, FLANGED ENDS.



SURVEY CONTROL TABLE:

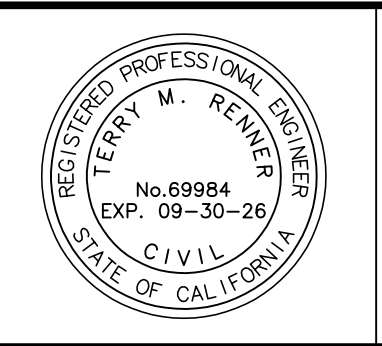
CP No.	NORTHING	EASTING	BEARING	DISTANCE
2	2033076.18	6742055.16	S81°33'40"	150.01'
3	1867863.81	6675388.50	S86°07'58"	269.65'
4	1867845.62	6675657.53		



REVISIONS

MARK	DATE	INITIAL	DESCRIPTION	DATE	APP'VD

BENCHMARK:
 2" CITY OF UPLAND BRASS DISC IN PCC SIDEWALK ON BRIDGE OVER THE CUCAMONGA CREEK FLOOD CONTROL CHANNEL, 40' SOUTH OF CL BASELINE AND 88' EAST OF CL ALTA CUESTA
 ELEV.= 1448.707'



TKE ENGINEERING
 TERRY M. RENNER REGISTERED ENGINEER No. 66984
 TKE ENGINEERING, INC.
 2305 CHICAGO AVENUE
 RIVERSIDE, CA 92507
 (951) 680-0440
 FAX: (951) 680-0490

DRAWN BY: JR
 DESIGNED BY: SK
 CHECKED BY: TMR
 RECOMMENDED BY:

APPROVED BY:
Brian C. Lee
 SAN ANTONIO WATER COMPANY GENERAL MANAGER
 10/15/2024
 DATE

SAN ANTONIO WATER CO.
 WELL 31 PIPELINE REPLACEMENT PROJECT
 PLAN/PROFILE SHEET
 STA. 21+00.00 TO STA. 23+39±

WATER DRAWING NO. —
 SHEET **4**
 OF 5 SHEET
 DRAWING NO. C2

SAN ANTONIO WATER COMPANY UPLAND, CALIFORNIA



CONTRACT DOCUMENTS

- Well 31 Pipeline Replacement

**San Antonio Heights
Upland, California**

BID DATE

October **XX**, 2024 at 10:00 a.m.

TABLE OF CONTENTS

The following pages constitute the complete Specification. It shall be the responsibility of the Bidder to verify the inclusion of all the listed pages in the set of documents upon which his bid is submitted.

CONTRACT DOCUMENTS – BIDDING REQUIREMENTS

DESCRIPTIONS	PAGE
SECTION 1 NOTICE INVITING BIDS	NB-1-3
SECTION 2 INSTRUCTIONS TO BIDDERS	IB-1-5
SECTION 3 CONTRACTOR'S PROPOSAL	CP-1-2
SECTION 3 BIDDING SCHEDULING / DECLARATION	CP-3
SECTION 3 BID SCHEDULE	CP-4-7
SECTION 3 BIDDING SHEET	CP-8
SECTION 3 BIDDER'S STATEMENT OF EXPERIENCE AND REFERENCES	CP-9-12
SECTION 4 CERTIFICATE OF NON-DISCRIMINATION	ND-1
SECTION 5 CERTIFICATION LABOR CODE – SECTION 1861	LC-1
SECTION 6 CERTIFICATION OF NONSEGREGATED FACILITIES	CNF-1
SECTION 7 BIDDER'S STATEMENT ON PREVIOUS CONTRACTS SUBJECT TO EEO CLAUSE	EEO-1
SECTION 8 NON-COLLUSION AFFIDAVIT	NA-1
SECTION 9 CONTRACTOR'S LICENSING STATEMENT	CL-1

SECTION 10 FORM OF BID BOND	BB-1
SECTION 11 CONSTRUCTION AGREEMENT	CA-1-5
SECTION 12 PAYMENT BOND	PY-1-2
SECTION 13 PERFORMANCE BOND	PB-1-2

GENERAL PROVISIONS

DESCRIPTIONS	PAGE
SECTION 1 GENERAL	GP-1
SECTION 2 SCOPE OF THE WORK	GP-5
SECTION 3 CONTROL OF THE WORK	GP-6
SECTION 4 CONTROL OF MATERIALS	GP-8
SECTION 5 LEGAL RELATIONS AND RESPONSIBILITIES	GP-9
SECTION 6 PROSECUTION AND PROGRESS OF THE WORK	GP-10
SECTION 7 MEASUREMENT AND PAYMENT	GP-12
SECTION 8 FACILITIES FOR AGENCY PERSONNEL (BLANK)	GP-13

SPECIAL PROVISIONS

DESCRIPTIONS	PAGE
SECTION 1 GENERAL REQUIREMENTS	SP-1
SECTION 2 EARTHWORK	SP-4
SECTION 3 ASPHALT PAVING	SP-9
SECTION 4 MATERIAL	SP-10
SECTION 5 INSTALLATION OF PIPE	SP-11
SECTION 6 INSTALLATION OF VALVES, HYDRANT, AND FITTINGS	SP-13
SECTION 7 THRUST BLOCKS AND ANCHOR BLOCKS	SP-14
SECTION 8 CLEANING AND DISINFECTION OF WATER MAINS	SP-15
SECTION 9 HYDROSTATIC TESTING & LEAKAGE ALLOWANCE	SP-17

MATERIALS

DESCRIPTIONS	PAGE
SECTION 1 CONTROL OF MATERIALS	MAT-1
SECTION 2 PORTLAND CEMENT CONCRETE REINFORCING	MAT-2
SECTION 3 PVC WATER PIPE	MAT-3
SECTION 4 CAST IRON FITTINGS	MAT-4
SECTION 5 TYPES OF JOINTS	MAT-7
SECTION 6 RESILIENT WEDGE GATE VALVES	MAT-8
SECTION 7 BUTTERFLY VALVES	MAT-9
SECTION 8 MISCELLANEOUS VALVES	MAT-10

TECHNICAL SPECIFICATIONS

<u>SECTION</u>	<u>DESCRIPTIONS</u>
01000	SUMMARY OF WORK
01010	WORK RESTRICTION & SEQUENCE OF WORK
01300	SUBMITTALS
02100	SITE PREPARATION
02200	EARTHWORK
02513	ASPHALT CONCRETE PAVING
03100	CONCRETE FORMWORK
03200	CONCRETE REINFORCEMENT
03300	CAST-IN-PLACE CONCRETE
15076	PIPING AND APPURTENANCES
15100	VALVES

**SECTION 1.1
Of
PROCEDURAL DOCUMENTS**

NOTICE INVITING BIDS

NOTICE IS HEREBY GIVEN that San Antonio Water Company, hereinafter referred to as the "Company", on behalf of and as authorized by the Board of Directors of Company, will receive sealed bids for construction of:

- *Well 31 Pipeline Replacement, Upland, CA. – CO#2203*

Bids will be received in the office of San Antonio Water Company up to the hour of 10:00 o'clock a.m. on October XX, 2024 and then publicly opened and read aloud. Said bids will thereafter be referred to the Board of Directors for consideration.

Bids should be marked on the outside of the sealed envelope:

RE: "Contract Documents and Specifications for Project
Well 31 Pipeline Replacement"

Mailed or dropped off sealed bids may be delivered to:

San Antonio Water Company
139 North Euclid Avenue
Upland, California 91786

Owner reserves the right to reject any and all proposals, to waive any irregularity or to award the contract to other than the lowest responsible bidder. Bidder may not withdraw his/her bid for 30 days after the bid opening.

The proposed contract is under and subject to Executive Order 11246, as amended, of September 24, 1965, and to the Equal Employment Opportunity (EEO) and the Federal Labor Provisions.

Each bidder must complete, sign and furnish, with completed bid documents, the "Bidder's Statement on previous contracts subject to the EEO clause", a "Certification of Non-segregated Facilities", and the "Assurance of Minority Business Enterprise Participation" as contained in the Bid Documents.

Prior to the award of this contract, the contractor must file a compliance Report (SF 100), if the contractor has not submitted a complete and accurate Compliance Report within 12 months preceding the date of award.

CONTRACT DOCUMENTS

Copies of the Contract documents may be examined and obtained at the office of San Antonio Water Company, 139 North Euclid Avenue, Upland, California 91786, upon a non-refundable payment of \$25.00 for each hard copy or flash drive set.

If Contract Documents are to be mailed, an added charge of \$10.00 per set will be added to cover handling and cost of postage.

PRE-BID MEETING

A pre-bid meeting / job walk for prospective bidders will be conducted on **October XX, 2024 at 10:00 a.m.** at the San Antonio Water Company Office at 139 North Euclid Avenue.

PLANS AND SPECIFICATIONS

All of the above work is to be done under Contract with the Company and in accordance with those certain plans specifications and drawings prepared by San Antonio Water Company, hereafter called the "Engineer", and considered and approved by the Board of Directors of Company to which Documents reference is hereby made for a description of said works and improvements.

BONDS

The Contractor will be required to execute a Contract on the Company's standard form; furnish Contract Performance Bond (100% of contract amount) and Payment (Materials) Bond (50% of contract amount) with a corporate surety in conformance with the Contract Documents, or equivalent substitution in lieu of bonds, each for not less than the aforementioned amount of the total bid price; furnish certificates of insurance evidencing that all insurance coverage required by the Contract Documents has been secured.

PAYMENT

Company payments will be made by check to the Contractor in accordance with the provisions of the specifications and on itemized estimates duly certified and approved by the General Manager of the Company and Engineer submitted in accordance therewith, based on labor and materials incorporated into said works and improvements during the preceding month by the Contractor, less 10% withholding.

Payment shall not be made more often than once each thirty-(30) days. Final payment shall be made thirty-five (35) days subsequent to filing of Notice of Completion.

Contractor is advised that he/she may, at his/her sole cost and expense, substitute securities equivalent to any monies withheld by the Company to insure performance under the Contract. Such securities shall be deposited with a State or Federally Chartered Bank, located in Upland and as approved by the Company, as escrow agent who shall pay such monies to the Contractor upon satisfactory completion of the Contract. The Contractor shall be the beneficial owner of any securities substituted for monies withheld and shall receive any interest thereon. Securities eligible for investment under this section shall include those listed in Government Code Section 16430 or bank or savings and loan certificates of deposit.

BID SECURITY

All proposals or bids shall be accompanied by a cashier's or certified check payable to the order of Company, amounting to ten (10) percent of the bid or by a bond in said amount and payable to Company, signed by the Bidder and a corporate surety. Said check shall be forfeited or said bond shall become payable to Company in case the Bidder depositing the same does not, within ten (10) days after written notice, sign the Contract.

AWARD AND EXECUTION

The Award of Contract, if made, will be within thirty (30) calendar days from the date of the bid opening.

Bidders shall agree that the Bid shall be good and may not be withdrawn for a period of thirty (30) calendar days after the scheduled closing time for receiving Bids.

The Contractor shall execute the Contract within ten (10) working days after he has been notified in writing of the award.

The Company hereby reserves the right to reject any and all proposals, to waive any irregularity, and to award the Contract to the lowest responsive and responsible Bidder.

CONTRACTOR'S LICENSE CLASSIFICATION

The prime Contractor must possess the following California Contractor's License: Class A – General Contractor or a C-34 license at the time of the scheduled bid opening of this Contract.

DATED: August 23, 2024.

SAN ANTONIO WATER COMPANY

Charles Moorrees/ General Manager

INSTRUCTIONS TO BIDDERS

Bids will be received by the San Antonio Water Company hereinafter called the “Company”, at 139 North Euclid Avenue, Upland, California 91786, until **10:00 a.m. October XX, 2024.**

Each Bid proposal must be submitted along with supporting Documents and bid proposals guarantee, all signed in a sealed envelope, and addressed to the Company at the above referenced address. Each sealed envelope containing a Bid must be plainly marked on the outside as:

Contract Documents and Specifications for

- *Well 31 Pipeline Replacement, Upland, CA. – CO#2203*

and the envelope should bear on the outside the name of the Bidder, his address and his license number. If forwarded by mail, the sealed envelope containing the Bid must be enclosed in another envelope, labeled as shown in the advertisement for Bid, and addressed to:

San Antonio Water Company
139 North Euclid Avenue
Upland, California 91786

Bidders are advised that in selecting a Contractor, Company reserves the right to consider the financial responsibility and general competency of each Bidder, as well as his/her reputation within the industry. Company expects each Bidder to fully and truthfully disclose all information required of the Bidder by the Bidding Documents. Each Bidder must be properly licensed and must sign and submit with his/her Proposal, Bidding Schedule / Declaration, the Bidder's Statement of Experience and References, Financial Statement (if requested), Plan for Construction, Bidding sheets, list of manufacturers, Bidder's Statement on Previous Contracts subject to EEO Clause, Certification of Non-segregated Facilities, Labor Code Certification, Certificate of Non-Discrimination, License Number Statement and other Supporting Documents. All Bidders shall supply the names and addresses of major material Suppliers and subcontractors as set forth in the bid.

All bid proposals shall be opened and read at the time and place set forth in the Notice Inviting Bids herein. Bidders and/or their authorized representatives are invited to be present. The award, if made, will be made within ten (10) days of the opening. The Company's policy is to award to the lowest responsible Bidder who can comply with the projected delivery and/or completion schedules. The Company may make such investigations as he deems necessary to determine the ability of the Bidder to perform the work, and the Bidder shall furnish to the Company all such information and data for this purpose as the Company may request. The Company reserves the right to reject any Bid if the evidence submitted by, or investigation of, such Bidder fails to satisfy the Company that such Bidder is properly qualified to carry out the obligations of the Agreement and to complete the work contemplated therein. The Company reserves the right to reject any and all bids, to waive any irregularity, minor defects, or to award the subject Contract to other than the lowest Bidder. Notice of Award shall be made to a successful Bidder in writing and mailed to the address as set forth on the signature page of the Bidding Documents.

All Bids must be made on the required Bid forms. All blank spaces for Bid prices must be filled in, in ink or typewritten, and the Bid form must be fully completed and executed when submitted. Only one copy of the Bid form is required.

In the event there is more than one bid item in a Bidding Schedule, the Bidder shall furnish a price for all bid items in the schedule, and failure to do so will render the Proposal informal and may cause its rejection. The Bidder shall state in figures, the unit pieces or the specific sums as the case may be, for which he proposes to supply the labor, materials, supplies or machinery, and completely perform the Contract. The total amount of each item bid and the total amount of the bid shall be stated in words and figures.

If the unit price and total amount named by a Bidder for any items are not in agreement, the unit price alone will be considered, as representing the Bidders intention and the total will be corrected to conform thereto. Quantities set forth in the bidding sheet are estimates of the amount of materials and equipment to be furnished and the amount of work to be done, and are given only as a basis for comparison of bids. Final payment shall be made for the actual final quantities of the items at the unit prices bid in the proposal.

Each Bidder shall complete the attached Bid Proposal and Supporting Documents including any addenda or bulletins issued before receipt of bids and public opening of same. Each blank of each page shall be completed in full. The completed forms shall be without interlineations, alterations, or erasures; however, Bidder may correct errors by striking or lining out mistakes, entering corrections immediately there above and initialing the strikeout.

Company may, at its discretion, reject any bid to which the Bidder has added conditions, limitations, provisions, or any interlineations or alterations. Unauthorized conditions, limitations, or provisions attached to the Proposal will render it non-responsive and may cause its rejection. The completed Proposal forms shall be without interlineation, alterations or erasures. Alternative proposals will not be considered unless specifically requested. **Oral, telephonic proposals or modifications will not be considered.** A person, firm, or corporation shall not be allowed to make or file, or to be interested in, more than one bid, except an alternative bid when specifically requested; provided however, a person, firm, or corporation who has submitted a sub-proposal to a Bidder submitting a Proposal, or who has quoted prices on material to such Bidders, is not thereby disqualified from submitting a sub-proposal or firm quoting prices to other Bidders submitting proposals, or from submitting a Proposal as a prime Contractor. Company may also, at its discretion, reject any bid for which the Bidder has failed to supply all requested information or has misrepresented any of same information. Company will not consider alternative proposals unless they are called for by these instructions or the supplemental proposals on forms other than those bound herein, and those forms shall not be removed from the bound volume.

Separate copies of Bidder's Proposal with Supporting Documents are available for Bidder's use. Bidder shall retain said copies for his/her record. They shall not be submitted as a proposal.

Company will not consider any proposal, which is not complete.

Should a Bidder find discrepancies in, or omissions from the Special Provisions, General Provisions, Drawings, or other Documents bound herein, or should he/she be in doubt as to their meaning, he/she should immediately notify the Company who may send a written clarification to all Bidders.

If the Bid Proposal is made by an individual, it shall be signed and his/her full name and address shall be given; if it is made by a co-partnership, it shall be signed with the co-partnership name by one of the partners, who shall sign his/her own name and, in addition, the name and address of each partner shall be given; if it is made by a corporation, the name of the corporation shall be signed by its duly authorized officer, or officers, attested by the corporation seal, and the names and titles of all current officers of the corporation shall be given.

Any bid may be withdrawn prior to the above scheduled time for the opening of Bids or authorized postponement thereof. The Bidder by means of a written request, signed by the Bidder or their properly authorized representative may withdraw the Proposal. Such written request must be delivered to the place stipulated in the Notice Inviting Bids for receipt of proposals prior to the scheduled closing time for receipt of proposals. No Proposal may be withdrawn after the hour fixed for opening bids without making the accompanying certified or cashier's check, or Bidder's bond, subject to forfeiture as liquidated damages in like manner as in the case of failure to execute the Contract of furnish required bonds as hereinafter provided. Any bid received after the time and date specified shall not be considered. No Bidder may withdraw a Bid within ten (10) days after the actual date of the opening thereof. Should there be reasons why the Contract cannot be awarded within the specified period, the time may be extended by mutual agreement between the Company and the Bidder.

Bidders must satisfy themselves of the character of the work to be performed by examination of the site and review of the Drawings and Specifications, including Addenda. Each Bidder is responsible for inspecting the site and for reading and being thoroughly familiar with the Contract Documents. The failure or omission of any Bidder to do any of the foregoing shall in no way relieve any Bidder from any obligation in respect to his Bid. After bids have been submitted, the Bidder shall not assert that there was a misunderstanding concerning the nature of the work to be done.

The Company shall provide to Bidders, prior to Bidding, all information, which is pertinent to, and delineates and describes, the land owned and rights-of-way acquired or to be acquired.

The Contract Documents contain the provisions required for the construction of the Project. Information obtained from an officer, agent, or employee of the Company or any other person shall not affect the risks or obligations assumed by the Contractor or relieve him from fulfilling any of the conditions of the Contract.

Each Bid must be accompanied by a Bid Bond (on the required form) payable to the Company for ten (10) percent of the total amount of the bid. Each bid proposal shall be accompanied by a certified or cashier's check or bid bond (bid bond shall be submitted on the form attached herein), or equivalent substitution of sureties for an amount of not less than 10 percent of the total bid amount named in the Bidding Sheet. Said check, bond or substitute shall be made payable to the Company and shall be given as a guarantee that the Bidder will enter into the Contract described in the Notice Inviting Bids herein if awarded the work. By submitting a proposal, each Bidder agrees that the Company may retain the bid proposal guarantee as liquidated damages if the Bidder is awarded the work but fails to or refuses to timely enter the Contract except as may otherwise be required by California Government Code Sections 37933-37935. As soon as the Bid prices have been compared, the Company will return the Bonds of all except the three lowest responsive and responsible Bidders. When the Agreement is executed, the bonds of the two remaining unsuccessful Bidders will be retained until all Contract Documents have been executed and approved, after which it will be returned.

Bonds and Insurance Certificates must be in the form required by the Company (substitutions are not permitted) and the Company must be authorized to do business in the State of California. Surety Companies executing bonds must possess a certificate of authority from the California Insurance Commissioner authorizing them to write surety insurance defined in Section 105 of the California Insurance Code. Surety Companies executing bond must also appear on the "Treasury List" of companies holding a Certificate of Authority as acceptable surety on Federal Bonds and possess an underwriting authority limitation exceeding the contract amount.

The successful Bidder shall, upon receipt of Notice of Acceptance of his/her bid, promptly secure with a responsible corporate surety or sureties approved by the Company, a Payment Bond and a Contract Performance Bond (on the required form), each in the amount of one hundred (100) percent of the Contract Price, will be required for the faithful performance of the Contract. Contractor may, upon written request, and at his sole expense after approval by the Board of Directors, deposit substitute securities referenced in Government Code Section 16430, or bank or savings and loan certificates of deposit, as authorized by Public Contract Code Section 22300 in lieu of retention monies withheld to ensure performance.

Attorneys-in-fact who sign Bid Bonds or Labor and Material Payment Bonds and Contract Performance Bonds must file with each Bond a certified and effective dated copy of the Power of Attorney.

The party to whom the Contract is to be awarded will be required to execute the Agreement and submit the Payment Bond, Contract Performance Bond and Insurance Certificates on the required forms within ten (10) calendar days from the date when the necessary Contract Agreement, Bonds, and Insurance Certificate forms and Notice of Award are delivered to lowest responsive Bidder. A corporation to which an award is made will be required, before the Contract is finally executed, to furnish evidence of its corporate existence and of the authority of the officer signing the Contract and bond for the corporation to so sign. In case of failure of the Bidder to execute the Agreement, the Company may, at its option, consider the Bidder in default; in which case the Bid bond accompanying the proposal shall become the property of the Company.

The Company, within ten (10) days of receipt of acceptable Labor and Material Payment bond, Contract Performance Bond, Insurance Certificate & Special Endorsement, and Agreement signed by the party to whom the Agreement was awarded, shall sign the Agreement and return to such party an executed duplicate of the Agreement. Should the Company not execute the Agreement within such period, the Bidder may, by Written Notice, withdraw his signed Agreement. Such notice of withdrawal shall be effective upon receipt of the notice by the Company.

A Notice to Proceed will be issued by the Company as a part of this Contract within ten (10) days of the execution of the agreement by the Company. Should there be reasons why the Notice to Proceed cannot be issued within such period, the time may be extended by mutual agreement between the Company and Contractor. If the Notice to Proceed has not been issued within the above-specified period or within the period mutually agreed upon, the Contractor may terminate the Agreement without further liability on the part of either party.

The Company may make such investigations as he deems necessary to determine the ability of the Bidder to perform the Work, and the Bidder shall furnish to the Company all such information

and data for this purpose as the Company may request. The Company reserves the right to reject any bid if the evidence submitted by, or investigation of, such Bidder fails to satisfy the Company that such Bidder is properly qualified to carry out the obligations of the Agreement and to complete the Work contemplated therein.

The Company reserves the right to reject all bids.

Award, if made, will be made to the lowest responsive and responsible Bidder, as determined by the Company.

All applicable laws, ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the Project shall apply to the Contract throughout. The Bidder's attention is directed to the Standard Specifications for Public Works construction and modifications of the Special Provisions bound herein for additional requirements of the Proposal and Contract Documents.

Each Bidder is responsible for inspecting the site and for reading and being thoroughly familiar with the Contract Documents. The failure or omission of any Bidder to do any of the foregoing shall in no way relieve any Bidder from any obligation in respect to his Bid.

All work shall be completed within **ninety (90) calendar days.**

CONTRACTOR'S PROPOSAL

BID PROPOSAL WITH SUPPORTING DOCUMENTS FOR

CO-2203

Installation of Well 31 Pipeline Replacement

FROM:

NAME OF BIDDER: _____

BUSINESS ADDRESS: _____

TELEPHONE NO: _____

TO:

**BOARD OF DIRECTORS
SAN ANTONIO WATER COMPANY**

GENTLEMEN:

Pursuant to your invitation to provide Sealed Bids for the “*Well 31 Pipeline Replacement, Upland Hills Country Club, Upland, CA.*”, the undersigned hereby declares that the only persons interested in this Proposal as principals are those named herein, that the Bidder has no connection with any other parties bidding on this project (except for a corporate division of the undersigned which may submit an independent bid), and that this bid has been prepared and submitted independently, without consultation, communication, or agreement with any other Bidder or competitor, without any collusion, fraud, misrepresentation, or deceit.

In submitting this Proposal, the undersigned further declares that he/she has read the Notice Inviting Bids, the Instruction to Bidders, the unexecuted Contract, and all other Documents incorporated by reference, including the Special Provisions, the Basic Specifications, Modifications thereto, and the Construction Plans and Standard Drawings and that he/she has inspected the work site and hereby proposes to furnish all materials, machinery, tools, labor and services, and do all the work necessary to complete the Project in accordance with said plans, specifications and provisions at the below stated item prices.

In exchange for consideration of this Proposal by the Company, the Bidder agrees that if his/her bid is accepted by the Company, the Bidder will execute said Contract, furnish and provide the items set forth in this Proposal and required by the Contract, the Standard Specifications for Public Works Construction, the Special Provisions and Specifications, and the Construction Plans and Standard Drawings (**all within 90 calendar days**), and will accept as full payment the prices set forth in the Bidding Sheet.

The undersigned further agrees that he/she shall execute such Contract within ten days from the date of mailing to him of written notice of the Company’s acceptance of this proposal and within the same time shall furnish bond(s), along with the required certificates of insurance, and that upon failure to do so within said time, the proposal guaranty shall become the property of the Company as liquidated damages for such failure or refusal, and shall be deposited as monies belonging to the Company; provided that if said Bidder shall execute the Contract and aresaid, his/her proposal guaranty shall be returned to him within ten days thereafter.

Bidder agrees with the Company that if the project is not fully completed within said time, he will pay as liquidated damages, the sum of \$800 for each consecutive calendar day thereafter as provided in Section 6-9 of the Standard Specifications, and that this amount shall be presumed to be the amount of damages sustained by Company in the event of such a breach by Bidder, as it would be impracticable or extremely difficult to fix the actual damage.

BY: _____

TITLE: _____

**PROPOSAL
BIDDING SCHEDULING / DECLARATION**

The undersigned agrees that all of the work included in the Proposal shall be completed in **90 calendar days** as provided in the Contract Plans and Specifications. The undersigned further agrees that in case of default in executing the required Contract with necessary bonds within ten (10) working days, from the date of mailing of a notice from the Company that the Contract has been awarded, the proceeds of the check or bond accompanying his bid shall become the property of San Antonio Water Company.

Licensed in accordance with an Act providing for the registration of Contractors.

LICENSE NUMBER: _____

CONTRACTOR: _____

BY: _____

TITLE: _____

BUSINESS ADDRESS:

If an individual, so state. If a firm is co-partnership, state the firm name, and give the names and addresses of all individuals, co-partners, composing the firm. If a corporation, state the legal name of corporation; also the names of President, Secretary, manager, and Treasurer thereof, with their business addresses:

Corporate chartered under the laws of the State of: _____

CO-2203
INSTALLATION OF APPROXIMATELY 1340 LF OF 12" WATER LINE

ITEM NO.	QTY	UNIT	DESCRIPTION	UNIT PRICE (In Figures)	TOTAL AMT. (In Figures)
1	1339	LF	Install 12' C900 DR14 Pressure Class 305, Polyvinyl Chloride (P.V.C) Pipe Per San Antonio Water Company Standard Drawing No. SAWCO-4.	\$ _____	\$ _____
			(words)		
2	1	EA	Install 12" Butterfly Valve (FL x FL) Per San Antonio Water Company Standard Drawing No. SAWCO-6.	\$ _____	\$ _____
			(words)		
3	1	EA	Install 12" 90° Elbow (MJ x MJ)	\$ _____	\$ _____
			(words)		
4	8	EA	Install 12" 45° Elbow (MJ x MJ)	\$ _____	\$ _____
			(words)		
5	5	EA	Install 12" 22.5° Elbow (MJ x MJ)	\$ _____	\$ _____
			(words)		
6	1	EA	Install 12" 11.25° Elbow (MJ x MJ)	\$ _____	\$ _____
			(words)		

ITEM NO.	QTY	UNIT	DESCRIPTION	UNIT PRICE (In Figures)	TOTAL AMT. (In Figures)
7	1	EA	Install Flexible Coupling Connection	\$ _____	\$ _____
			(words)		
8	0	EA	Install 2" Air Release Valve and Enclosure Per San Antonio Water Company Standard No. SAWCO-4	\$ _____	\$ _____
			(words)		
9	0	EA	Install Temporary 12" End Cap with 2.5" Riser Piping for Flushing and Disinfection	\$ _____	\$ _____
			(words)		
10	1	EA	Construct 4" Blow-Off Assembly per San Antonio Water Company Standard Drawing No. SAWCO-8	\$ _____	\$ _____
			(words)		
11	13	EA	Construct Thrust Block in Accordance with San Antonio Water Company Standard Drawing No. SAWCO-13.	\$ _____	\$ _____
			(words)		
12	1	EA	Reconstruct Existing Curb Return Per Detail 1 on Sheet 5.	\$ _____	\$ _____
			(words)		
13	1	EA	Install 12" Spring Loaded Swing Check Valve, Mueller or AVK, CL150, Epoxy Coated Flanged Ends	\$ _____	\$ _____
			(words)		

Total Bid Schedule (Items 1 thru 13) = \$ _____

(In Words)

Name of Person Completing this Bid Form:

Title:

Company Name

Telephone Number:

NAME OF BIDDER: _____

BIDDING SHEET

In the blanks provided, fill in the prices at which you propose to furnish the scheduled construction, including all labor, materials, equipment, work and methods necessary to complete the work, and all applicable sales and use taxes imposed pursuant to the laws of the State of California.

Bidders are advised that they must include a proportional amount of overhead, profit, sales tax and all other applicable taxes and fees, etc., within the bid prices for each bid item, since the amount of bid under which award will be made, if made, will be determined by the Company after the bids have been received.

Quantities set forth in the Bidding Sheet are estimates of the amount of materials and equipment to be furnished and the amount of work to be done and are given only as a basis for comparison of bids. Final payment shall be made for the actual final quantities of the items at the unit prices bid in the proposal

All Bidders must bid on all Item No.'s.

ADDENDA

Bidder acknowledges receipt of the following Addenda:

_____ DATED _____
_____ DATED _____
_____ DATED _____

The Company's policy is to award to the lowest responsive and responsible Bidder.

However, Bidders are advised that Company reserves the right not to make an award. Bidder agrees to perform all the work described in the Contract Documents for the following unit prices or lump sum:

BIDDER'S STATEMENT OF EXPERIENCE AND REFERENCES

Names and addresses of all members of co-partnership or names and titles of all officers of the corporation:

The bidder declares that the surety (sureties) named in the space provided below have agreed to furnish bonds in the amounts set forth in the Instruction to the Bidders, in the event the Contract is awarded on the basis of this proposal.

Names and addresses of surety or sureties agreeing to furnish bond:

Each Bidder (Contractor) is required to furnish work record for Sub-bidders (Subcontractors). List at least two projects each that the Sub-bidders have completed within the past three- (3) years. Responses must be full and explicit. Use reverse side or additional sheets as necessary. The Sub-bidder's name should correspond to the names of Subcontractors shown on the following page of Subcontractor performing in excess of one-half of one percent of the total bid price.

PROJECT NAME: _____

DESCRIPTION: _____

CONTRACT AMOUNT: \$ _____ DATE COMPLETED: _____

OWNER'S NAME: _____

ADDRESS: _____

TELEPHONE NO: () _____

PROJECT NAME: _____

DESCRIPTION: _____

CONTRACT AMOUNT: \$ _____ DATE COMPLETED: _____

OWNER'S NAME: _____

ADDRESS: _____

TELEPHONE NO: () _____

PROJECT NAME: _____

DESCRIPTION: _____

CONTRACT AMOUNT: \$ _____ DATE COMPLETED: _____

OWNER'S NAME: _____

ADDRESS: _____

TELEPHONE NO: () _____

FINANCIAL STATEMENT

If requested by the Company, the bidder shall furnish a notarized financial statement, references, and other information, sufficiently comprehensive to permit an appraisal of his current financial condition.

SUBCONTRACTORS

List the name and address of **all subcontractors** who will perform work in or about the work or improvement in excess of one-half of one percent of the total bid price and indicate what part of the work will be done by each such Contractor. (Submit additional sheets if required.) Only one sub-bidder shall be listed for each portion of work.

If the Contractor fails to specify a subcontractor for any portion of the work in excess of one-half (1/2) of one (1) percent of the total Bid to be performed under the Contract, he shall be deemed to have agreed to perform such portion himself and he shall not be permitted to subcontract that portion of the work except under conditions permitted by law.

Subletting or subcontracting of any portion of the work as to which no subcontractor was designated in the original Bid shall only be permitted in case of public emergency or necessity, or otherwise permitted by law, and then only after a finding reduced to writing as a public record of the Company.

Item No. of Work	Name of Firm/Contractor	Location of Mill/shop/office	% of Item to be Performed by Subcontractor

Has Bidder, as Contractor, been involved in litigation with any owner of any project within the last ten- (10) years? If so, please describe the projects(s) and the nature and results of any litigation including any lawsuits settled prior to trial.

Has any sub-bidder, as contractor, been involved in litigation with any owner of any project within the last ten(10) years? If so, please describe the project(s) and the nature and results of any litigation including any lawsuits settled prior to trial.

List the name of the person who examined the work site of the proposed work for your firm:

Date of Inspection: _____

LISTING OF MANUFACTURERS

The contractor shall submit this sheet with his bid, completed, to list the manufacturers of materials he intends to use. It shall be understood that where the contractor elects to not use the material manufacturers called for in the Specifications he will substitute only items of equal quality, durability, functional character and efficiency as determined by the Engineer. The contractor should ascertain prior to bidding the acceptability of substitutes. Only one manufacturer shall be listed for each item.

ITEM OR MATERIAL	MANUFACTURER ADDRESS AND PHONE NUMBER	SUPPLIER ADDRESS AND PHONE NUMBER

No change shall be allowed of any material manufacturer listed after receipt of Bids unless the manufacturer so listed cannot furnish materials meeting the Specifications. Should such change be allowed, there will be no increase in the amount of the bid originally submitted.

In submitting a Bid to a purchasing body, the Bidder offers and agrees that if the Bid is accepted, it will assign to the purchasing body all rights, title and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Section 15) or under the Cartwright Act (Chapter 2 of Part 2 of Division 7 of the business and Professions Code) arising from purchases of goods, materials, or services by the Bidder for sale to the purchasing body pursuant to the bid. Such assignment shall be made and become effective at the time the purchasing body tenders final payment to the Bidder.

RESPECTFULLY SUBMITTED:

SIGNATURE

TITLE

DATE

ADDRESS

TELEPHONE NUMBER

CITY, STATE, ZIP

CONTRACTOR'S LICENSE NO.

TYPE OF LICENSE AND CLASS

FEDERAL IDENTIFICATION NO.

SEAL -(IF BID IS BY A CORPORATION)

ATTEST

CERTIFICATE OF NONDISCRIMINATION

On behalf of the Bidder making this proposal, the undersigned certifies that there will be no discrimination in employment with regards to ethnic group identification, color, religion, sex, age, or physical or mental disability, or national origin; that all applicable laws and directives regarding nondiscrimination in employment will be complied with; and that the principle of equal opportunity in employment will be demonstrated positively and aggressively.

DATED

NAME OF BIDDER

SIGNATURE

TYPED NAME AND TITLE

**CERTIFICATION
LABOR CODE - SECTION 1861**

I, the undersigned Contractor, am aware of the provisions of Section 3700 ET. Seq. of the Labor Code which requires every employer to be insured against liability for Worker's Compensation or to undertake self-insurance in accordance with the provisions of that Code, and I, the undersigned Contractor, agree to and will comply with such provisions before commencing the performance of the work of this Contract.

CONTRACTOR:

FIRM NAME

BY: _____

BY: _____

SECOND PARTY

**CERTIFICATION OF NONSEGREGATED FACILITIES
(CONTRACTORS / SUBCONTRACTORS)**

(A certification of Nonsegregated Facilities must be submitted prior to the award of a contract of subcontract exceeding \$10,000 which is not exempt from the provisions of the Equal Opportunity Clause.)

The federally assisted construction contractor certifies that he/she does not maintain or provide for his/her employees any segregated facilities at any of his/her establishments, and that he/she does not permit his/her employees to perform their services at any location, under his/her control, where segregated facilities are maintained. The federally assisted construction contractor certifies further that he/she will not maintain or provide for his/her employees any segregated facilities at any of his establishments, and that he/she will not permit his/her employees to perform their services at any location, under his/her control, where segregated facilities are maintained. The federally assisted construction contractor agrees that a breach of this certification is a violation of the Equal Opportunity Clause in this contract. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, sex or national origin, because of habit, local custom, or any other reason. The federally assisted construction contractor agrees that (except where he/she has obtained identical certifications from proposed subcontractors prior to the award of subcontract exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity Clause, and that he/she will retain such certifications in his/her files.

Certification - The information above is true and complete to the best of my knowledge and belief.

Name and Title

Signature

Date

NOTE: The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.

CNF-1

SAWCO
CONTRACT DOCUMENTS
CERTIFICATION OF NON-SEGREGATED FACILITIES

**BIDDER'S STATEMENT ON PREVIOUS
CONTRACTS SUBJECT TO EEO CLAUSE**

The Bidder shall complete the following statement by checking the appropriate spaces.

The Bidder has _____ has not _____ participated in a previous contract subject to the Equal Opportunity Clause prescribed by Executive Order 11246, as amended, of September 24, 1965.

The Bidder has _____ has not _____ submitted all compliance reports in connection with any such contract due under the applicable filing requirements; and that representatives indicating submission of required compliance reports signed by proposed subcontractors will be obtained prior to award of subcontracts.

If the Bidder has participated in a previous contract subject to the equal opportunity clause and has not submitted compliance reports due under applicable filing requirements, the Bidder shall submit a compliance report on Standard Form 100, "Employee Information Report EEO-1" prior to award of the contract.

NON-COLLUSION AFFIDAVIT

STATE OF CALIFORNIA)

) ss.

COUNTY OF _____)

_____, being first duly sworn, deposes and
(NAME OF AFFIANT)

and says that he/she is _____
(TITLE)

of _____, the part making the foregoing bid; that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, Company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the Bidder has not directly or indirectly induced or solicited any other Bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any Bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the Bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the Bidder or any other Bidder, or to fix any overhead, profit or cost element of the bid price, or of that of any other Bidder, or to secure any advantage against the public body awarding the Contract of anyone interested in the proposed Contract; that all statements contained in the bid are true; and, further, that the Bidder has not directly or indirectly, submitted his/her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, Company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

(SIGNATURE)

(TYPED NAME)

SUBSCRIBED BEFORE ME on this _____ day of _____, 20_____.

(NOTARY PUBLIC)

My Commission Expires: _____

CONTRACTOR'S LICENSING STATEMENT

I, the undersigned Contractor, am aware of State Business and Professions Code, Section 7028.15 which requires that the information shown below shall be included in the bid. Any bid not containing this information, or if this information is subsequently proven to be false shall be considered non-responsive and shall be rejected.

NAME OF CONTRACTOR: _____

BUSINESS ADDRESS: _____

Corporation organized
under the laws of the State of: _____

STATE LICENSE NO. _____

STATE LICENSE CLASSIFICATION _____

STATE LICENSE EXPIRATION DATE _____

I certify under penalty of perjury under the laws of the State of California that the representations made in this Bid are true and correct.

SIGNED _____

TITLE _____

DATE _____

FORM OF BID BOND

KNOW ALL PERSONS BY THESE PRESENTS, that we, the undersigned _____

as Principal, and _____

as Surety, are hereby held and firmly bound unto San Antonio Water Company as owner in the penal sum of \$ _____

(in words)

for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns.

Signed this _____ day of _____, 2018.

The condition of the above obligation is such that, whereas the Principal has submitted to the San Antonio Water Company a certain bid, attached hereto and hereby made a part hereof, to enter in to a Contract in writing for:

- o **Well 31 Pipeline Replacement**

NOW, THEREFORE,

- a. If said Bid shall be rejected, or in the alternate,
- b. If said Bid shall be accepted and the Principal shall execute and deliver a Contract in the form of Contract attached hereto (properly completed in accordance with said Bid) and shall furnish a bond for his/her faithful performance of said Contract, and shall in all other respects perform the agreement created by the acceptance of said Bid.

Then this obligation shall be void; otherwise, the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by an extension of the time within which the Company may accept such Bid; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first mentioned.

SEAL

PRINCIPAL

SURETY

BY: _____

**SAN ANTONIO WATER COMPANY
CONSTRUCTION AGREEMENT
For**

- **Well 31 Pipeline Replacement, Upland, CA. – CO#2203**

THIS AGREEMENT, is made and entered into this _____ day of _____, 2024, by and between the **San Antonio Water Company**, a Stockholder owned Mutual Water Company and California Corporation located in Upland, California, hereinafter called the OWNER, and by

_____ ,
a _____ ,
located in _____ ,

WITNESSETH: That the OWNER and CONTRACTOR have mutually covenanted and agreed with each other as follows:

1. THE CONTRACT DOCUMENTS. The complete Contract is comprised of and includes: The Notice Inviting Bids, Instructions to Bidders, the Non-Collusion Affidavit, the accepted Bid Proposal, the Construction Agreement and Bonds, the Certifications of Required Insurance Coverage and Endorsements, the Special Provisions, the Standard Specifications for Public Works Construction – 1997 Edition, Modifications to Standard Specifications, the Plans and Drawings and associated permit(s), all Addenda or Supplemental amendments, provisions, regulations, ordinances, codes, and laws otherwise applicable to the work of improvements are incorporated as though fully set forth herein.

All of the above Documents are intended to cooperate so that any work called for in one and not mentioned in the other, or vice versa, is to be executed the same as if mentioned in all said Documents. The Documents comprising the complete Contract are hereinafter referred to as the Contract Documents.

2. THE WORK. CONTRACTOR agrees to furnish all tools, apparatus, facilities, equipment, labor and materials (except that specifically mentioned as being furnished by others) necessary to perform and complete the work in a good and worker like manner as called for, and in the manner designated in, and in strict conformity with the aforesaid Contract Documents.

3. CONTRACT PRICE. The OWNER agrees to pay and the CONTRACTOR agrees to accept, in full payment for the work above agreed to be done, the prices set forth in the Bid Proposal (\$ _____) as full compensation for fulfilling all obligations hereunder or as modified by any valid Contract change order. Said compensation shall cover all expenses, losses, damages, and consequences arising out of the nature of work during its progress or prior to its acceptance including those for well and faithfully completing the work and the whole thereof in the manner and time specified in the Contract Documents; and also including those expenses arising from actions of the elements, unforeseen difficulties or obstructions encountered in the prosecution of the work.

4. DISPUTES PERTAINING TO PAYMENT FOR WORK. Should any disputes arise respecting the true value of any work done or any work omitted, or of any extra work which the CONTRACTOR may be required to do, or respecting the amount of any payment to the CONTRACTOR during the performance of this Contract, said dispute shall be decided by arbitration in accordance with the prevailing rules and procedures of the American Arbitration

Association and the arbitrators' chosen by the OWNER and the CONTRACTOR, and said arbitrators' decision shall be final and conclusive. Under no condition shall there be a cessation of work by the CONTRACTOR during the dispute. This article does not exclude recovery of damages by either party for delays.

5. PAYMENT. Not later than the 1st day of each calendar month, a partial payment request, from the CONTRACTOR, will be provided to the OWNER for review, approval and funding on the basis of an estimate approved by the Engineer of the work performed since the CONTRACTOR's last partial payment request during the preceding month, if any, with ten (10) percent of the amount of each such estimate retained until the final and execution of a Notice of Acceptance of all work covered by this Contract. Payments due shall be made within 15-days of approval.

The Notice of Acceptance will be in letter form and will include the acceptance signature of the OWNER's representative. Release of CONTRACTOR's retention funds will be 36-days after the recording of the Notice of Completion.

6. TIME FOR COMPLETION AND DAMAGES. All work under this Contract shall be completed within a period of **Ninety (90) calendar days** after the date the CONTRACTOR receives the Notice to Proceed, respectively, unless either period for completion is extended by the OWNER. CONTRACTOR and OWNER are aware of the damages, which may be incurred by OWNER if the Work is not completed within the time specified in this Agreement. Accordingly, OWNER and CONTRACTOR agree that the sum of \$800 per calendar day is a reasonable sum to assess as liquidated damages to OWNER by reason of the failure of CONTRACTOR to complete the Work within the time specified.

7. EXTENSION OF TIME. If the CONTRACTOR is delayed by the acts of negligence of the OWNER, or its employees or agents, or by changes ordered in the work, or by strikes, lockouts, fire, unavoidable casualties, or any causes beyond the CONTRACTOR's reasonable control, or by delay authorized by the OWNER, or by any justifiable cause which the Engineer shall authorize, then the CONTRACTOR shall make out a written claim addressed to the OWNER setting forth the reason for the delay and the extension of time requested and forward a copy of the claim to the Engineer for approval. The Engineer will evaluate the claim and if the claim is justifiable, will request the OWNER's approval. No such extension will be allowed unless written claim therefore has been delivered within three (3) calendar days after the delay became apparent.

This article does not exclude the recovery of damage for delay by either part under other provisions in the Contract Documents and CONTRACTOR specifically acknowledges that he has read and agrees to the provisions in the Contract Documents relating to liquidated damages.

8. INFORMATION AND REPORTS. The CONTRACTOR hereby agrees to provide all information and reports required by the Contract Documents or by Regulations pursuant thereto and shall permit access to its books, records, accounts, other sources of information and its facilities as may be determined by the OWNER to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of CONTRACTOR is in the exclusive possession of another who fails or refuses to furnish this information, the CONTRACTOR shall so certify to the OWNER, as appropriate, and shall set forth what efforts it has made to obtain the information.

9. INDEMNITY AND LITIGATION. To the fullest extent permitted by law, CONTRACTOR agrees to indemnify and hold harmless OWNER and all of its officers, directors, agents and employees from and against any and all claims, demands, or causes of action, including related expenses, attorney's fees, and costs, based in, arising out of, or in any way related to the Work performed by the CONTRACTOR, or anyone directly or indirectly employed by CONTRACTOR and for which the CONTRACTOR may be liable hereunder.

Should any litigation or arbitration be commenced between the parties hereto concerning said Work, any provision of this Agreement, or the rights and obligations of either in relation hereto, the party prevailing in such litigation shall be entitled, in addition to such other relief as may be granted, to a reasonable sum for its attorney's fees in such litigation, and related costs.

10. INSURANCE. CONTRACTOR shall procure and maintain insurance, for protection against claims. Without limiting CONTRACTOR's indemnification, CONTRACTOR agrees to procure and maintain, pursuant to the Specifications, at its sole cost and expense, in a form and content satisfactory to OWNER, during the entire term of this Agreement including any extension thereof, the following policies of insurance:

Coverage (Check if applicable)	Minimum Limits
(X) Comprehensive General Liability Insurance (including) premises and combined operations) not auto	\$1,000,000 per occurrence single limit
() Contractual Liability Insurance Products Liability Insurance	\$1,000,000 limit
(X) Comprehensive Automobile Liability Insurance (including owned, non-owned, and hired automobile hazards	\$1,000,000 per occurrence combined single limit
() Professional Liability Insurance (providing for a one year discovery period)	\$1,000,000 per occurrence combined single limit
(X) Workers' Compensation/ Employer's Liability Insurance	Statutory \$1,000,000 per occurrence

Conditions: In accordance with Public code Section 20170, the insurance of surety companies who provide or issue the policy shall have been Admitted to do business in the State of California with a credit rating of "A-" or better in the most recent edition of A.M. Best Company Rating guide, and only if they are of a financial category Class VIII or better, unless otherwise waived by the OWNER.

Any insurance maintained by the OWNER shall apply in excess of and not combined with insurance provided by this policy. The OWNER, its officers, directors, agents, employees and representatives shall be named as additional insured on this policy.

Prior to commencement of any work under this Contract, CONTRACTOR shall deliver to the OWNER the required insurance certificates and endorsements confirming the existence of the insurance required by this Contract, and including the applicable clauses reference above and in the Contract Documents. Such endorsements shall be signed by an authorized representative of the insurance Company and shall include the signatory's Company affiliation and title. Should it be deemed necessary by the OWNER, it shall be the CONTRACTOR's

responsibility to see that the OWNER receives documentation, acceptable to the OWNER, which sustains that the individual signing said endorsements is indeed authorized to do so by the insurance Company.

11. SUCCESSORS AND ASSIGNS. OWNER and CONTRACTOR hereby bind themselves, their successors and assigns to the other party hereto in respect to covenants, agreements, and obligations contained in this Agreement. Neither party hereto shall assign or attempt to assign this Agreement in part or as a whole without the prior written consent of the other party hereto.

12. NOTICE. Written notice shall be deemed to have been duly served if delivered in person to the individual or a member of the party's hereto or to an office of the party for which it was intended, or if delivered by registered or certified mail to the last business address known to the party giving the notice.

San Antonio Water Company
139 No. Euclid Avenue
Upland, California 91786
FAX: (909) 920-3047
Telephone: (909) 982-4107

FAX: _____

Telephone: _____

13. GOVERNING LAW. This Agreement shall be governed by the laws of the State of California.

14. ENTIRE AGREEMENT. This Agreement constitutes the entire agreement between OWNER and CONTRACTOR and supersedes all prior written or oral understandings, except to the extent specifically referenced and incorporated herein. This Agreement may only be amended, supplemented, modified or canceled by a duly executed written instrument.

15. SEVERABILITY. Any provision or part of the Agreement held to be void or unenforceable under any law or regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon OWNER and CONTRACTOR, who agree that the Agreement shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision as close as possible to expressing the intention of the stricken provision.

16. TIME IS OF THE ESSENCE. The time periods in the Sequence of Work and Construction Schedule and the Time for completion are of the essence of this Agreement. By executing the Agreement, CONTRACTOR confirms that the time periods are reasonable for performing in accordance with the Contract Documents.

17. PARTIES HAVING PRINCIPAL INTEREST. CONTRACTOR affirms that the signatures, titles, and seals set forth hereinafter in execution of this Agreement represent all individuals, firm members, partners, joint ventures, and/or corporate officers having a principal interest herein.

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed by their authorized officers, this Agreement in two (2) copies each of which shall be deemed an original and effective as of the date first written above.

OWNER:

CONTRACTOR:

Title: _____

PAYMENT BOND
(MATERIALS)

- **Well 31 Pipeline Replacement, Upland, CA. – CO#2203**

KNOW ALL PERSONS BY THESE PRESENTS: That we, _____,
as Principal, and _____,
a corporation organized and existing under the laws of the State of _____,
and duly authorized to transact business under the laws of the State of California, as
Surety, are held and firmly bound unto the SAN ANTONIO WATER COMPANY and to
any and all persons, companies or corporations entitled to file stop notices under
Section of the California Civil Code in the sum of (\$ _____),

(in words)

payable under the terms of the Agreement between _____

and San Antonio Water Company, for which payment well and truly to be made, we bind
ourselves, and heirs, executors and administrators, successors and assigns, jointly and
severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that, if said Principal or his/her
subcontractors, shall fail to pay for any materials, provisions, provender, or other
supplies or teams, implements or machinery used in, upon, for or about the
performance of the Work Contracted to be done, or shall fail to pay any person,
Company or corporation for any labor or work performed thereon of any kind, or for any
amounts required to be deducted, withheld, and paid over to the Internal Revenue
Service and/or Franchise Tax Board from the wages of employees of said Principal or
his/her subcontractors, the Surety will pay for the same in an amount not exceeding the
sum specified above. In case suit is brought upon this bond, the Principal and the
Surety will pay a reasonable attorney's fee to be fixed by the court having jurisdiction in
the case. In addition to the provisions herein above, it is agreed that this bond will inure
to the benefit of any and all persons, companies and corporations entitled to serve stop
notices, so as to give a right of action to them or their assigns in any suit brought under
this bond.

No final settlement between the OWNER and the CONTRACTOR hereunder shall
abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

(Signatures and attachments on second page)

IMPORTANT: Surety companies executing bonds must possess a certificate of authority from the California Insurance Commissioner authorizing them to write surety insurance defined in Section 105 of the California Insurance Code. Surety companies executing bond must also appear on the "Treasury List" of companies holding a Certificate of Authority as acceptable Surety on Federal Bonds and possess an underwriting authority limitation exceeding the Contract Amount.

In addition to the attachment of a Notary acknowledgment of the signatures hereto, a copy of the power of attorney to the local representatives of the Bonding Company must also be attached hereto.

IN WITNESS WHEREOF, we have hereunto set our hands and seals this _____ day of _____, in the year _____.

Business name of Contractor

By: _____ (seal)

Title: _____

INDIVIDUAL ____ PARTNERSHIP ____ CORPORATION ____ OTHER ____

If OTHER, explain: _____

SURETY INFORMATION

SURETY NAME: _____

ADDRESS: _____

(seal)

TELEPHONE: () _____

SURETY SIGN: _____

TITLE: _____

NOTARY INFORMATION

"SIGNATURE OF SURETY MUST BE ACKNOWLEDGED BEFORE A NOTARY PUBLIC. PLEASE ATTACH APPROPRIATE ACKNOWLEDGMENT FORM."

PERFORMANCE BOND

- o **Well 31 Pipeline Replacement, Upland, CA. – CO#2203**

KNOW ALL PERSONS BY THESE PRESENTS: That we, _____

as Principal, and _____,
a corporation organized and existing under the laws of the State of _____,
and duly authorized to transact business under the laws of the State of California, as
Surety, are held and firmly bound unto the SAN ANTONIO WATER COMPANY and to
any and all persons, companies or corporations entitled to file stop notices under
Section of the California Civil Code in the sum of (\$ _____),

(in words)

payable under the terms of the Agreement between _____

and San Antonio Water Company, for which payment well and truly to be made, we bind
ourselves, and heirs, executors and administrators, successors and assigns, jointly and
severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that, if said Principal, its heirs,
executors, administrators, successors or assigns shall in all things stand to and abide
by, and well and truly keep and perform the covenants, conditions and agreements in
the appended Agreement and any alteration thereof as provided, on his/her or their part,
to be kept and performed at the time and in the manner therein specified, and in all
respects according to their intent and meaning; and shall faithfully fulfill the one-year
guarantee of all materials and workmanship; and indemnify and save harmless the
OWNER, its officers, directors, agents and employees as stipulated in the Agreement,
then this obligation shall become null and void; otherwise it shall be and remain in full
force and effect. In case suit is brought upon this bond, the Principal and the Surety will
pay a reasonable attorney’s fee to be fixed by the Court having jurisdiction in the case.

The Surety, for value received, hereby stipulates and agrees that no change, extension
of time, alteration or addition to the terms of the Agreement or to the work to be
performed thereunder or the Specifications accompanying the same shall in any way
affect its obligations on this bond, and it does hereby waive notice of any such change,
extension of time, alteration of addition to the terms of the Agreement or to the Work or
to the Specifications.

No final settlement between the OWNER and the CONTRACTOR hereunder shall
abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

(Signatures and attachments on second page)

IMPORTANT: Surety companies executing bonds must possess a certificate of
authority from the California Insurance Commissioner authorizing them to write surety

ornia Insurance Code. Surety companies executing bonds must also appear on the "Treasury List" of companies holding a Certificate of Authority as acceptable surety on Federal Bonds, and possess an underwriting authority limitation exceeding the Contract Amount.

In addition to the attachment of a Notary acknowledgment of the signatures hereto, a copy of the power of attorney to the local representatives of the Bonding Company must also be attached hereto.

IN WITNESS WHEREOF, we have hereunto set our hands and seals this _____ day of _____, in the year _____.

Business name of Contractor

By: _____ (seal)

Title: _____

INDIVIDUAL _____ PARTNERSHIP _____ CORPORATION _____ OTHER _____

If OTHER, explain: _____

SURETY INFORMATION

SURETY NAME: _____

ADDRESS: _____

(seal)

TELEPHONE: _____ () _____

SURETY SIGN: _____

TITLE: _____

NOTARY INFORMATION

"SIGNATURE OF SURETY MUST BE ACKNOWLEDGED BEFORE A NOTARY PUBLIC. PLEASE ATTACH APPROPRIATE ACKNOWLEDGMENT FORM."

GENERAL PROVISIONS SECTION

INDEX

DESCRIPTIONS	PAGE
SECTION 1 TERMS, DEFINITIONS, ABBREVIATIONS AND SYMBOLS	GP-1
SECTION 1-6 REQUIRMENTS AND CONDITIONS	GP-3
SECTION 2 SCOPE AND CONTROL OF WORK	GP-5
SECTION 3 CHANGES IN WORK	GP-8
SECTION 4 CONTROL OF MATERIALS	GP-9
SECTION 5 UTILITIES (BLANK)	GP-10
SECTION 6 PROSECUTION, PROGRESS AND ACCEPTANCE OF THE WORK	GP-11
SECTION 7 RESPONSIBILITIES OF THE CONTRACTOR	GP-13
SECTION 8 FACILITIES FOR AGENCY PERSONNEL (BLANK)	GP-15
SECTION 9 MEASUREMENT AND PAYMENT	GP-16

SAN ANTONIO WATER COMPANY GENERAL PROVISIONS

SECTION 1 “TERMS, DEFINITIONS, ABBREVIATIONS AND SYMBOLS”

The Standard Specifications for the San Antonio Water Company shall be the **STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1998 EDITION OR LATEST REVISION THEREOF** (sometimes hereinafter referred to as the *Green Book*), written and promulgated by the Southern California Chapter, American Public Works Association, and Southern California Districts Associated General Contractors of California Joint Cooperative Committee, including all published amendments thereto except for the following amendments, deletions and modifications.

Any conflict arising between these modifications and the Standard Specifications for Public Works Construction shall be resolved by the Engineer, whose decision shall be final.

Modifications to the Standard Specifications for Public Works Construction.

The following amendments, additions and deletions are hereby incorporated:

1-2 Definitions.

Acceptance, Final Acceptance – The formal action by the Owner accepting the Work as being complete.

Accepted Bid – the bid (proposal) accepted by the Owner (**added**).

Agency - As used in the Standard Specifications shall be the Company (**amended**).

Board - The Board of Directors of the Company (**amended**).

Company (or Owner) – The San Antonio Water Company, a stockholder Mutual Water Company and California Corporation, acting through its Board of Directors and General Manager.

County - County of San Bernardino (**added**).

City – City of Upland (**added**)

Engineer - The General Manager of San Antonio Water Company or his authorized and designated employee or agent (**amended**).

Federal - United States of America (**added**).

Laboratory - The official testing laboratory of the San Antonio Water Company or other laboratories designated, in writing, by the Engineer (**added**).

Special Conditions – Modifications to Detailed Technical Provisions (**added**).

Street - Any dedicated right of way for public use as an avenue, highway, lane, alley, court, crossing or intersection (**added**).

Substantial Completion – That date as certified by the Engineer when the construction of the Project or a specified part thereof is sufficiently completed, in accordance with the Contract Documents, so

SAN ANTONIO WATER COMPANY GENERAL PROVISIONS

or specified part can be utilized for the purposes for which it is intended **(added)**.

Written Notice – Any notice to any party of the Agreement relative to any part of this Agreement in writing and considered delivered and the service thereof completed, when posted by certified or registered mail to the said party at his last given address, or delivered in person to said party or his authorized representative on the Work **(added)**.

1-3.3 Institutions.

ACI - American Concrete Institute **(added)**.

AISI - American Iron and Steel Institute **(added)**.

A.S.M.E. - The latest American Society of Mechanical Engineers **(added)**.

PCA - Portland Cement Association **(added)**.

AWWA – American Water Works Association

ASTM – American Society for Testing and Materials

SAN ANTONIO WATER COMPANY GENERAL PROVISIONS

SECTION 1-6 “REQUIREMENTS AND CONDITIONS”

A new **Section 1-6** hereby is **added** to Section 1 of the *Green Book*, as follows:

1-6.1 Availability of Plans and Specifications: Plans and specifications may be examined at the San Antonio Water Company. Copies of the Notice to Bidders and proposal forms may be obtained from the San Antonio Water Company.

1-6.2 Approximate Estimate: The quantities given in the Notice to Bidders, proposal and contract forms are approximate only, being given as a basis for the comparison of bids, and the Agency does not, expressly or by implication, agree that the actual amount of work will correspond therewith. For work bid on a lump sum price basis, any estimate of quantities is provided for the convenience of Bidders and for comparison of bids and is not guaranteed to be correct by the Agency.

1-6.3 Examination of Plans, Specifications and Site of the Work: The Bidder shall examine carefully the site of the work contemplated and the proposal, plans, specifications and contract forms therefor. It will be assumed that the Bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality and quantities of work to be performed and materials to be furnished, and as to the requirements of these specifications, the plans and the contract.

The Bidder acknowledges satisfaction as to the nature and location of the work, the general and local conditions, particularly those bearing upon the availability of transportation, access to the site, disposal, handling and storage of materials, availability of labor, water, electrical power, roads and uncertainties of weather, physical conditions at the site, the conformation and conditions of the ground, the character of equipment and facilities needed preliminary to and during the prosecution of the work, and all other matters which can in any way effect the work or the cost thereof under this contract.

The failure or omission of any Bidder to receive or examine any contract Document, form, instrument, addendum, or other document or to visit the site and become acquainted with conditions then existing shall not relieve any bidder from obligations with respect to the bid or the Contract. The submission of a bid shall be taken as prima facie evidence of compliance with this Section. Bidders shall not at anytime after submission of the bid, dispute or assert that there were any misunderstandings in regard to the nature or amount of work.

1-6.4 Proposal Form: All proposals must be submitted on forms for that purpose furnished by the Company. Letters of transmittal cannot be considered as part of the bid. All proposals shall give the prices proposed, both in writing and figures, and shall be signed by the Bidder, who must give the Bidder's address. The Bidder shall fill out all blanks in the proposal form as therein required. In case of error, unit prices will govern over extensions and written words will govern over numerals, unless it can be established that an obviously incorrect entry has been made.

1-6.5 Rejection of Proposals Containing Alterations or Irregularities: Proposals may be rejected if they show any alterations of form, additions not called for, conditional bids, incomplete bids, or irregularities of any kind. When proposals are signed by an agent, other than an officer or manager of a corporation or a member of a partnership, a power of attorney or written authorization must be on file with the Agency prior to opening bids or shall be submitted with the proposal; otherwise, the proposal will be rejected as irregular and unauthorized.

1-6.6 Proposal Guaranty: All bids shall be presented in a sealed envelope and shall be or the

SAN ANTONIO WATER COMPANY GENERAL PROVISIONS

amount equal to at least ten percent (10%) of the bid unless otherwise specified on the "Notice Inviting Sealed Bids or Proposals." Said guaranty shall be cash, an unconditional certified or cashier's check, or a bank or postal money order, or bid bond executed as surety by a corporation authorized to issue surety bonds in the State of California.

The check or bond of a Bidder to whom the Contract has been awarded will be returned to him after all of the acts, for the performance of which said security is required, have been fully performed. The checks or bid bonds of the second and third lowest Bidders will returned when the Bidder to whom the Contract has been awarded has properly executed all of the required Contract Documents. Check or bid bonds of other Bidders will returned when their proposals are rejected or in any event, at the expiration of sixty (60) days form the date of opening bids.

1-6.7 Withdrawal of Proposals: Any bid may be withdrawn at any time prior to, but not after, the hour fixed in the public notice for the opening of bids, provided that a request in writing executed by the Bidder or the Bidder's duly authorized representative, for the withdrawal of such bid is filed with the Agency. The withdrawal of a bid shall not prejudice the right of a Bidder to file a new bid.

1-6.8 Disqualification of Bidders: More than one proposal from an individual, a firm or partnership, a corporation or an association under the same or different names will not be considered. Reasonable ground for believing that any Bidder is interested in more than one (1) proposal for the work contemplated will cause the rejection of all proposals in which such Bidder is interested. If there is reason for believing that collusion exists among the Bidders, none of the participants in such collusion will be considered in this or future proposals. Proposals in which the prices are unbalanced may be rejected.

1-6.9 Competency of Bidders: Except as required by California Public Contract Code § 20103.5, prior to the submission of bids, the Contractor shall be licensed in accordance with the provisions of Chapter 9 of Division III of the Business and Professions Code of the State of California and evidence of such license shall be presented to the Engineer on request. The Engineer may require the Bidder to present satisfactory evidence that the Bidder has sufficient experience and is fully prepared with the necessary capital, materials, machinery and skilled workmen to carry out the contract.

1-6.10 Material Guaranty: Before any contract is awarded, Bidders may be required to furnish a complete statement of the origin, composition and manufacture of any or all materials to be used in the construction of the work, together with samples, which samples may be subjected to the tests provided for in these specifications to determine their quality and fitness for the work.

1-6.11 Progress Schedule: The successful Bidder shall submit a progress schedule showing thereon the time proposed to be occupied in prosecuting the various major divisions of the work and the proposed sequence of operations.

SAN ANTONIO WATER COMPANY GENERAL PROVISIONS

SECTION 2 “SCOPE AND CONTROL OF WORK”

Section 2-1 of the *Green Book* hereby is **amended** to read as follows:

2-1 Award and Execution of Contract

2-1.1 Consideration of Bids: Bids will be opened publicly by the Agency’s designated representative on the date and at the time set forth in the "Notice Inviting Sealed Bids or Proposals." The right is reserved by the Agency, by action of the Board, to reject any or all bids, to advertise for new proposals, to negotiate in the open market for a contract at a reasonable price, to purchase in the open market, or to have the work performed by Agency employees, or to abandon the work if, in the judgment of the Board, the best interests of the Agency will be promoted thereby.

2-1.2 Award of Contract: The award of the contract, if it were awarded, will be to the lowest responsible Bidder whose proposal complies with all the requirements prescribed. The award, if made, will be made within sixty (60) calendar days after the opening of the proposals unless otherwise specified in the “Notice to Bidders.”

All bids will be compared on the basis of the Agency's estimate of the quantities of work to be done.

2-1.3 Return of Proposal Guarantees: All proposal guarantees will be held by the Agency until the contract has been signed, after which they will be returned to the respective Bidders whose proposals they accompany. If bids are rejected, the proposal guarantees will be returned after the date of the rejection.

2-1.4 Execution of Contract: The contract shall be signed by the successful Bidder and returned together with the contract bonds, within ten (10) calendar days after the Notice of Award of Contract has been mailed, unless otherwise specified by the Agency.

2-5.2 Precedence of Contract Documents: Section 2-5.2 is hereby amended as follows: Should there be a conflict between the Plans and the Specifications, the plans shall control over the specifications.

2-5.3 Shop Drawings and Submittals:

Section 2-5.3 hereby is **amended** by the addition of a new § 2-5.3.4:

2-5.3.4 Shop Drawing Corrections/Notations:

If one print of the drawing is returned to the Contractor **marked “NO EXCEPTIONS TAKEN”** or **“MAKE CORRECTIONS NOTED”**, formal revision and re-submittal of said drawing will not be required.

If one print of the drawing is returned to the Contractor **marked “AMEND RESUBMIT”** or **“REJECTED RESUBMIT”**, the Contractor shall revise said drawing and shall resubmit three (3) copies of said revised drawing to the Agency.

Fabrication of an item shall not be commenced before the Agency has reviewed the pertinent shop drawings and returned copies to the Contractor marked either **“NO EXCEPTIONS TAKEN”**, **“MAKE CORRECTIONS NOTED”**, or **“AMEND RESUBMIT.”** Revisions indicated on shop drawings shall

SAN ANTONIO WATER COMPANY GENERAL PROVISIONS

be considered as changes necessary to meet the requirements of the Contract Drawings and Specifications and shall not be taken as the basis for claims for extra work. The Contractor shall have no claim for damages or extension of time due to any delay resulting from the Contractor's having to make the required revisions to shop drawings (unless a review by the Owner of said drawings is delay beyond a reasonable period of time and unless the Contractor can establish that the Agency's delay in review actually resulted in a delay in the Contractor's Construction Schedule). The review of said drawings by the Agency will be limited to checking for general agreement with the Specifications and Drawings, and shall in no way relieve the Contractor of responsibility for errors or omissions contained therein nor shall such review operate to waive or modify any provision contained in the Specifications or Contract Drawings. Fabricating dimensions, quantities of material, applicable code requirements and other contract requirements shall be the Contractors responsibility.

Pipeline – In order to eliminate excessive field joints or closures, as well as undesirable change in vertical and horizontal alignment, bends, thrust restraints, and appurtenances, the Contractor shall conduct his clearing and benching operations far enough in advance to determine the need for any modifications in alignment prior to the preparation or submittal of shop drawings for approval. Shop drawings shall be submitted to the Engineer for the following items:

- a. Valves (all types)
- b. Piping and fittings (all types)
- c. Typical field welding details.
- d. Paint and joint sealer.
- e. Typical detail of connection to existing mains and specs for fittings to be used.
- f. Pumps & Motors
- g. Fencing
- h. Flow Meters
- i. Guages
- j. Air/Vacs

2-9.2 Survey Service: Add the following paragraph at the end of **§ 2-9.2** of the *Green Book*:

The Owner shall provide necessary surveying adequate for construction, which will include grade and line stakes for the underground piping and appurtenances.

2.11 Inspection:

Add the following paragraphs at the end of **§ 2-11** of the *Green Book*:

The Contractor shall give the Engineer notice of the time when the Contractor or any subcontractor will start the various units or operations of the work. Notice shall be given at least forty-eight (48) hours in advance of starting or resumption time exclusive of Saturdays, Sundays or holidays, for the purpose of permitting the Engineer to make the necessary assignment of a representative or inspector on the work. Any work performed by the Contractor or subcontractor(s) in conflict with said notice shall be removed if so ordered by the Engineer or the representative or inspector on the work.

The inspection of the work shall not relieve the Contractor of any of the obligations to fulfill the contract as prescribed. Defective work shall be made good, and unsuitable materials may be rejected, notwithstanding the fact that such defective work or unsuitable materials may have been previously overlooked by the Engineer and accepted or estimated for payment.

Any project undertaken by the Agency in cooperation with, or under the control or supervision of, or

**SAN ANTONIO WATER COMPANY
GENERAL PROVISIONS**

quasi-public entity shall be subject, at all times, to inspection by the participating entity.

**SAN ANTONIO WATER COMPANY
GENERAL PROVISIONS**

**SECTION 3
“CHANGES IN WORK”**

3-2.1 General: Add the following paragraphs at the end of § 3-2.1 of the *Green Book*:

The Engineer shall approve change Orders that do not exceed the cumulative total of ten percent (10%) of the Contract amount.

Change Orders that exceed the cumulative total of ten percent (10%) of the Contract amount shall be reviewed and approved by the Board in advance of the actual work.

Where changes are necessary due to emergency needs and the cumulative total exceeds ten percent (10%) of the Contract amount, the Change Order shall be approved by the Engineer with subsequent ratification by the Board.

3-5.1 Retention of Imperfect Work: Add to § 3-5 of the *Green Book*:

If any portion of the Work done or materials furnished under the Contract proves defective or not in accordance with specifications and Contract drawings and if the imperfection in the same is not of sufficient magnitude or importance to make to Work dangerous or undesirable, or if the removal of such Work is unpractical or will create conditions which are dangerous or undesirable in the opinion of the Engineer the engineer shall have the right and authority to retain the work instead of requiring it to be removed and reconstructed but shall make such deductions therefor in the payment due the Contractor as may be just and reasonable.

**SAN ANTONIO WATER COMPANY
GENERAL PROVISIONS**

**SECTION 4
“CONTROL OF MATERIALS”**

4-1.2 Protection of Work and Materials: Add the following paragraph at the end of § 4-1.2 of the *Green Book*:

The Contractor shall properly safeguard all equipment, materials, and work against loss, damage, malicious mischief, or tampering by unauthorized persons until acceptance of the work by the Agency. Locked and covered storage or continuous surveillance by a watchman shall be provided if required to accomplish this purpose.

4-1.3.2 Inspection of Materials not locally produced: Add the following paragraph at the end of § 4-1.3.2 of the *Green Book*:

The Engineer may inspect the production of material, or the manufacture of products at the source of supply. Plant inspection, however, will not be undertaken until the Engineer is assured of the cooperation and assistance of both the Contractor and the material producer. The Engineer, or his duly authorized representative, shall have free entry at all times to such parts of the plants as concerns the manufacture or production of the materials. Adequate facilities shall be furnished free of charge to make the necessary inspection. The Agency assumes no obligation to inspect materials at the source of supply.

4-1.4 Test of Materials: Add the following paragraph at the end of § 4-1.4 of the *Green Book*:

The Company at its option may require testing and/or certification of soils and materials for this project. Any re-testing of soils or materials required by the engineer due to failure of the original test shall be at the Contractor's expense. All expenses incurred for obtaining samples and preparing and restoring field test sites, shall be the responsibility of the Contractor. Full compensation for conforming to the above requirements will be considered as included in the prices bid for various Contract items of Work and no additional compensation will be allowed therefor.

Testing of materials shall be provided by the Agency to insure compliance with Contract Specifications. The Contractor shall notify the Agency in writing two (2) working days in advance for any testing required maintaining progress without delays. Delays caused by the Contractor's failure to provide sufficient notice shall be the responsibility of the Contractor.

4-1.9 Title to Materials Found on the Work: A new § 4-1.9 is added to the *Green Book* as follows:

The Agency reserves the right to retain title to all soils, stone, sand, gravel, and other materials developed and obtained from excavations and other operations connected with the work. Unless otherwise specified in the Special Provisions, neither the Contractor nor any subcontractor shall have any right, title, or interest in or to any such materials. The Contractor will be permitted to use in the work, without charge, any such materials, which meet the requirements of the Specifications and Drawings.

**SAN ANTONIO WATER COMPANY
GENERAL PROVISIONS**

**SECTION 5
“UTILITIES”**

[No Changes]

**SAN ANTONIO WATER COMPANY
GENERAL PROVISIONS**

**SECTION 6
“PROSECUTION, PROGRESS AND ACCEPTANCE OF THE WORK”**

6-7.2 Working Day

Add the following paragraphs at the end of § 6-7.2.1 of the *Green Book*:

CONSTRUCTION SCHEDULE:

The Contractor shall furnish a work schedule for the project to the Company and the Engineer as indicated in the Notice of Award. It shall indicate the estimated dates of completion of the various construction phases, from fabrication to field installation and connection to the existing systems.

The Owner reserves the right to alter this schedule in order to activate part of the project or coordinate its completion with other simultaneous construction projects.

The Contractor shall give the Engineer notice of the time when he or his subcontractors will start the various units or operations of the work. Notice shall be given at least forty-eight (48) hours in advance of starting or resumption time exclusive of Saturdays, Sundays or holidays, for the purpose of permitting the Engineer to make the necessary assignment of his representative or inspector on the work. Any work performed by the Contractor or his subcontractors in conflict with said notice shall be removed if so ordered by the Engineer or his representative or inspector on the work.

The inspection of the work shall not relieve the Contractor of any of his obligations to fulfill the contract as prescribed. Defective work shall be made good, and unsuitable materials may be rejected, notwithstanding the fact that such defective work or unsuitable materials may have been previously overlooked by the Engineer and accepted or estimated for payment.

Any project undertaken by the Agency in cooperation with, or under the control or supervision of, another public or quasi-public entity shall be subject, at all times, to inspection by the participating entity.

The first working day of the Contract shall be as indicated in the Contract and the Special Provisions and as follows:

Normal Day: Commencement of performance shall be ten (10) calendar days after date of written Notice to Proceed.

Urgent: No more than two (2) hours after receipt by Contractor of telephone notice to proceed.

Emergency: No more than one-half (1/2) hour after receipt by Contractor of telephone notice to proceed.

WORKDAY:

Normal: The Contractor's working hours shall be limited to the hours between 7:00 a.m. and 4:30 p.m. Monday through Thursday and 7:00 a.m. to 4:00 p.m. on Fridays, excluding the following recognized holidays. Deviation from normal working hours will not be allowed without prior consent of the Company.

**SAN ANTONIO WATER COMPANY
GENERAL PROVISIONS**

New Year's Day President's Day Memorial Day Independence Day Labor Day Thanksgiving Day (and day after) Christmas Day

In the event work is allowed by the Company outside of normal working hours, at the request of and for the benefit of the Contractor, inspection service fees may be levied against the Contractor at a rate of \$46.00 per hour, including travel time where applicable, with a minimum hourly charge for four (4) hours. Payment for inspection overtime will be deducted from the Contractors payment.

The above charge may also be levied if inspection services are deemed necessary by the Company as a matter of public safety or to otherwise insure the quality of the work.

Urgent: The Contractor's working hours shall be from 6:00 a.m. to 9:00 p.m., Monday through Saturday, excluding recognized holidays.

Emergency: The Contractor's working hours shall be any time, any day without exception.

If work is done at night, the Contractor shall provide adequate light for proper prosecution of the work, for the safety of the workmen and the public, and for proper inspection.

6-7.3 Contract Time Accounting

Section 6-7.3 of the *Green Book* is **amended** by changing the term "working days" to calendar days."

6-8 Completion and Acceptance. Add the following paragraph at the end of **§ 6-8** of the *Green Book*:

The Contractor shall provide a surety bond, prior to final pay release. The bond shall be in an approved form and executed by a surety company or companies satisfactory to the Agency, in the amount of ten percent (10%) of the contract price, or one thousand dollars (\$1,000.00), whichever is greater. Said bond shall remain in force for the duration of the guarantee period.

SAN ANTONIO WATER COMPANY GENERAL PROVISIONS

SECTION 7 "RESPONSIBILITIES OF THE CONTRACTOR"

7.0 All references in § 7 to the Division of Industrial Safety shall mean the State Division of Occupational Safety and Health, or its successor agency or agencies.

Section 7-2.2 of the *Green Book* hereby is **amended** to read:

7-2.2 Laws to be Observed: The Contractor shall keep fully informed of all State and National laws and all municipal ordinances and regulations of the Agency which in any manner affect those engaged or employed in the work, or which in any way affect the conduct of the work, and of all such orders and decrees of bodies or tribunals having any jurisdiction or authority over the same.

The Contractor shall at all times observe and comply with, and shall cause all of the Contractor's agents, employees and subcontractors to observe and comply with all such laws, ordinances, regulations, orders and decrees; and shall protect and indemnify the Agency, the Board and the Engineer, and all of its and their elected and appointed officials, officers, agents and servants against any claim or liability arising from or based on the violation of any such law, ordinance, regulation, order or decree, whether by the Contractor or the Contractor's employees. If any discrepancy or inconsistency is discovered in the plans, drawings, specifications or contract for the work in relation to any such law, ordinance, regulation, order or decree, the Contractor shall forthwith report the same in writing to the Engineer.

7-2.2.6 Contractor's Responsibility for Work: Until the formal acceptance of the work, the Contractor shall have the charge and care thereof, except as provided in § 7-2.2, and shall bear the risk of injury or damage to any part thereof by the action of the elements or from any other cause, whether arising from the execution or from the non-execution of the work. The Contractor shall rebuild, repair, restore and make good all injuries or damages to any portion of the work occasioned by any cause before final acceptance and shall bear the expense thereof, except such injuries or damages as occasioned by Acts of War.

In case of suspension of Work from any cause whatever, the Contractor shall be responsible for all materials and the proper temporary storage thereof.

7-2.2.7 Correction of Errors, Recovery for Errors, Dishonesty or Collusion: The Agency reserves the right to correct any error that may have been made in any estimate that has been paid. The Agency also reserves the right to claim and recover, by process of law, any sums sufficient to correct any error or make good any deficiency in the work resulting from such error or from dishonesty or collusion between any of the parties or individuals having dealings pursuant to the construction of the work, regardless of when such error, dishonesty or collusion shall be discovered.

7-2.2.8 Rights in Materials and Salvage: Ownership of material incorporated in the work is vested in the name of the Agency. Any material delivered and paid for in part by the Agency or any material furnished by the Agency to be incorporated in the work, is or becomes the property of the Agency. Any salvageable materials or installations existing at the site of the work (such as valve boxes and other steel, cast iron or metallic materials) that are the property of the Agency, if they are to be removed, shall be delivered F.O.B. (Free on Board) to the storage yard designated by the Agency. The salvageable materials shall be cleaned of clinging concrete and debris and delivered to the storage yard in the same condition as it existed prior to removal, unless the Engineer instructs the Contractor otherwise.

7-2.2.9 Warranty of Title: No materials, supplies or equipment for the work under this Contract shall

**SAN ANTONIO WATER COMPANY
GENERAL PROVISIONS**

ortgage or under a conditional sale Contract or other agreement by which an interest therein or any part thereof is retained by the seller or supplier. The Contractor warrants clear and good title, to all materials, supplied and equipment installed and incorporated in the Work, and agrees upon completion of all work to deliver the premises, together with all improvements and appurtenances constructed or placed thereon by him, to the company free from any claims, liens, encumbrances or charges, and further agrees that neither he nor any person, firm, or corporation furnishing any material or labor for work covered by the Contract shall have any right to a lien upon the premises or any improvement installing metering devices or other equipment of utility companies the title of which is commonly retained by the utility Company. Nothing contained in this article, however, shall defeat or impair the right of such persons furnishing materials or labor under any bond given by the Contractor for their protection, or any right under any law permitting such persons to look to funds due the Contractor, which are in the hands of the Company. The provisions of this article shall be inserted in all subcontractors and material Contracts and notices of its provisions shall be given to all persons furnishing materials for the work when no formal Contract is entered into regarding such materials.

Section 7-3 of the *Green Book* hereby is **deleted**, in its entirety. **Insurance requirements are set forth in the contract.**

7-7 Cooperation and collateral work.

The contractor is advised of the performance of other work on site requiring coordination and scheduling of tasks and responsibilities as referenced in this section of the *Green Book*.

7-15 Notice and Service Thereof: Add § 7-15 to the *Green Book*:

Any notice required or given by one party to the other under the Contract shall be in writing and shall be dated and signed by the party giving such notice or by a duly authorized representative of such party. Any such notice shall not be effective for any purpose whatever unless served in the following manner:

Notice shall be given to the Company by personal delivery thereof to the Engineer or by depositing the same in the United States mail enclosed in a sealed envelope, registered and with postage prepaid, addressed to:

**General Manager
San Antonio Water Company
139 North Euclid Avenue
Upland, California 91786**

Notice shall be given to the Contractor, by personal delivery thereof to said Contractor or to his authorized representative at the site of the project, or by depositing the same in the United States mail, enclosed in a sealed envelope addressed to said Contractor at the address established for the conduct of the Work under this Contract, postage prepaid and registered.

Notice shall be given to the Surety, or any other person, by personal delivery to said Surety or other person, or by depositing the same in the United States mail, enclosed in a sealed envelope addressed to such Surety or persons at the address of said Surety or persons last communicated by him to the party giving the notice, postage prepaid and registered.

**SAN ANTONIO WATER COMPANY
GENERAL PROVISIONS**

**SECTION 8
“FACILITIES FOR AGENCY PERSONNEL”**

[No Changes]

SAN ANTONIO WATER COMPANY GENERAL PROVISIONS

SECTION 9 “MEASUREMENT AND PAYMENT”

9-3.1 General: Add to this section of the *Green Book* as follows:

Retention funds will be released pursuant to the Public Contract Code Section 7107 except as may be provided for in Civil Code Section 3179 ET. Seq.

9-3.2 Partial and Final Payment: Amend this section of the *Green Book* as follows:

The Contractor, at the pre-construction meeting, shall provide a breakdown of Lump Sum prices by preparing a Schedule of Values, with estimates of completed work on each of the various elements of work on which to base applications for partial payments. The breakdown shall be a true representation of the price for the work covered by the Specifications and Drawings and shall be subject to acceptance by the Engineer. An unbalanced breakdown will not be acceptable. The values assigned to the price breakdown will be used only as a basis for partial payments and not as a basis for additions to or deletions from the Contract Price.

On the 5th day of each month the Contractor shall submit, to the Engineer, a written progress estimate of the work completed. The Engineer will review the estimate and approve it or notify the Contractor of any exceptions. No such progress estimate will be required and no payment will be made when the total number of working days is twenty-five (25) or less or when the value of the work totals less than \$500.00.

Progress payments made after the scheduled completion date shall not constitute a waiver of liquidated damages.

The Contractor may, at Contractor's sole cost and expense, substitute securities equivalent to any monies withheld by the owner to insure performance under the Contract. Such security shall be deposited with the owner or a state or federally chartered bank as escrow agent, who shall pay such monies to the Contractor upon satisfactory completion of the Contract. The Contractor shall be the beneficial owner of any security substituted for monies withheld and shall receive any accrued interest thereon. Securities eligible for investment shall include those listed in government Code Section 16430 or bank or savings and loan certificates of deposit.

WORK PERFORMED WITHOUT DIRECT PAYMENT

Whenever the Contractor is required to perform work or furnish equipment, labor, tools and materials of any class for which no price is fixed in the proposal, it shall be understood that such work, equipment, labor, tools and materials shall be provided without extra charge, allowance, or direct payment of any kind. The cost of performing such work or furnishing such equipment, labor, tools and materials shall be included in the unit bid prices in the Proposal and no additional compensation will be made therefor.

SPECIAL PROVISIONS SECTION

INDEX

DESCRIPTIONS	PAGE
SECTION 1 GENERAL REQUIREMENTS	SP-1
SECTION 2 EARTHWORK	SP-4
SECTION 3 ASPHALT PAVING	SP-8
SECTION 4 MATERIAL	SP-9
SECTION 5 INSTALLATION OF PIPE	SP-10
SECTION 6 INSTALLATION OF VALVES, HYDRANTS, AND FITTINGS	SP12
SECTION 7 THRUST BLOCKS AND ANCHOR BLOCKS	SP-13
SECTION 8 CLEANING AND DISINFECTION OF WATER MAINS	SP-14
SECTION 9 HYDROSTATIC TESTING & LEAKAGE ALLOWANCE	SP-15

**SAN ANTONIO WATER COMPANY
SPECIAL PROVISIONS**

**SECTION 1
“GENERAL REQUIREMENTS”**

1.01 DESCRIPTION OF WORK

The Contractor shall furnish, in accordance with the Specifications, drawings, Storm Water Permit, and San Bernardino County permits, all plant, labor, equipment, and materials required for the construction of the project stated in the Contract Documents and Bidding Schedule.

1.02 SEQUENCE OF WORK

Prior to starting construction, the Contractor shall submit to the Owner a schedule, which shall coordinate the various construction phases, from fabrication to field installation and connection to the existing systems pursuant to Section 7-7 of the Green Book.

1.03 COMPLETION OF WORK

All work must be substantially completed within the time specified in the Contract Documents. Final completion including re-pavement of asphalt surface and clean up must be completed within the time specified in the Contract Documents as well as the conditions set forth in the permit issued by the governing agency. ***If the Contractor does not complete the contracted work in the time allocated per the Specifications and the Notice to Proceed, he shall be liable to the Company for all inspection time for each day after the established Contract completion date that the work remains incomplete. He shall remain liable until the job is approved and accepted by the Company (for extension of time, see General Provisions, Section 6-6.2).***

1.04 LIQUIDATED DAMAGES

The Contractor shall, as provided in Section 6-9 of the General Provisions, pay to the Company as fixed, agreed, and liquidated damages for each calendar days delay, in substantial completion and final completion of the work beyond the time agreed upon, the amount of **\$800.00** per calendar day.

1.05 PRE-CONSTRUCTION MEETING

Following award of Contract, but prior to commencement of work, the Contractor shall schedule a meeting with the Owner, City & County Inspectors, and affected utilities to review proposed construction and shall furnish the following items:

(A) A schedule of completing the principal items of work (Construction Schedule).

(B) Projection of monthly payments to be earned (if applicable)

(C) A list of names, titles, addresses, and telephone numbers of the Contractor's responsible personnel indicating those who may be reached outside of normal working hours for emergency response.

(D) Provide a signed document stating that the Contractor has contacted the City of Upland Police Department, the City of Upland Fire District, County Fire District and the Chaffey Unified School District (Bus Division) of notification of commencement of work.

(E) Shop Drawings. All understandings, interpretations and agreements reached at said conference shall be reduced to writing by the Owner and mailed to all parties attending said pre-construction conference.

1.06 FAILURE TO COMPLY

If the Contractor cannot be contacted or fails to respond, or refuses to comply with instruction given by the City/County Permit Inspector then, the Company may take corrective action as necessary to protect the roadway and traveling public. The Contractor shall reimburse the Company for any such costs thereof.

SAN ANTONIO WATER COMPANY SPECIAL PROVISIONS

1.07 CONSTRUCTION UTILITIES

(A) POTABLE WATER - All drinking water on the site, during construction, shall be furnished by the Contractor and shall be bottled water or water furnished in approved dispensers.

(B) CONSTRUCTION WATER – Water for construction, dust control, testing, compaction and other phases of the work requiring water, shall be furnished by the Contractor at his own expense and no additional allowance will be made therefore. The Contractor shall comply with all regulations of the appropriate Water and Fire agencies regarding connection to fire hydrants or standpipes.

The Contractor is advised to contact the appropriate agency regarding the availability of water, cost of hydrant meter & cost of water.

The cost for water shall be included in the lump sum bid of the work and no additional allowance will be made therefor.

1.08 PERMITS AND LICENSE

At his own expense, the Contractor shall apply and obtain all other permits (i.e., San Bernardino County permit, Storm Water Permit) and licenses required for the execution of work under this Contract.

1.09 PRIVATE PROPERTY

Any private property damaged by the Contractor's operations shall be repaired or replaced in kind by the Contractor at his own expense and to the satisfaction of the property owner and/or the Company's Inspector.

1.10 AS-BUILT DRAWINGS

The Contractor shall maintain on the job site a set of full size blue-line drawings. On these, he shall mark all as-built conditions, locations, configurations, and other details shown on the original Contract Drawings. Upon completion of work and prior to final acceptance, the as-built drawings shall be turned over to the Company.

1.11 PROTECTION OF EXISTING UTILITIES

The Contractor shall exercise his best effort and care to protect existing utilities (water lines, gas mains, power poles, etc.) against damage from his operations. All damages shall be repaired by the Contractor at his own expense.

1.12 CONSTRUCTION STAKING

The Company shall provide for all field staking during construction per Section 2-9.5 of the General Provisions. ***The Contractor shall provide the Company with five (5) working days advance notice of any required survey staking.***

1.13 BID ITEM FOR SAFETY MEASURES

Each bid proposal submitted under these Specifications for the construction of a pipeline, boring or jacking pits, or similar trenches or open excavations, which are five (5) feet or deeper, or the use of such a trench or open excavation shall contain a separate bid item to provide sheeting, shoring and bracing, or equivalent method, for the protection of life or limb, which shall conform to applicable safety orders, including the Construction Safety Orders of the California Division of Industrial Safety, in accordance with the requirements of the California Occupational Safety and Health Act.

Nothing in this requirement shall be construed to impose tort liability on the awarding body or any of its employees.

SAN ANTONIO WATER COMPANY SPECIAL PROVISIONS

1.14 TRENCH SHORING APPROVAL

Any contract for excavation of any trench or trenches five (5) feet or more in depth, the Company shall require submission by the Contractor and acceptance by the awarding body or by a Registered Civil or Structural Engineer to whom authority to accept has been delegated, in advance of excavation, a detailed plan showing the design of shoring, bracing, sloping, or other provisions to be made for worker protection from the hazard of caving ground during the excavation of such trench or trenches. This plan shall be prepared by a Registered Civil or Structural Engineer.

Nothing in this Section shall be deemed to allow the use of a shoring, sloping, or protective system less effective than that required by the safety standards set forth by the State of California Safety Requirements.

Nothing in this Section shall be construed to impose tort liability on the awarding body or any of its employees.

SAN ANTONIO WATER COMPANY SPECIAL PROVISIONS

SECTION 2 "EARTHWORK"

2.01 GENERAL

The Contractor shall perform all earthwork required for construction of the proposed improvements as specified and shown. Earthwork includes all plant, labor, equipment, and materials, as required or necessary to clear shrub, excavate, trench, fill, backfill, and grade for the construction of all structures, pipe lines, ditches, embankments, and graded areas.

2.02 UNKNOWN UNDERGROUND FACILITIES

The Company has attempted to show all known underground facilities on the plans. The Contractor's attention is directed to the possible existence of pipe and other underground improvements, which may or may not be shown on the plans. ***The Contractor shall request Underground Service Alert sufficiently ahead of his excavation (72 hours minimum) to correctly locate the existing underground facilities.*** When the exact location of a utility becomes doubtful, the Contractor shall excavate and expose the utility ahead of trenching operations. The inspector representing the Engineer of Work may adjust the alignment of the pipeline to provide the least amount of interference with the utility as determined by the inspector. All reasonable precautions shall be taken to preserve and protect any such improvements whether shown on the plans or not. Where it is necessary to remove and replace or to relocate such improvements in order to prosecute the work, they shall be removed, maintained, and permanently replaced following a review by the Company and owners of the utility.

2.03 GRADING

In addition to the requirements herein set forth for piping and structural earthwork, all shall be in accordance with the requirements of any other agencies having jurisdiction.

2.04 GENERAL EXCAVATION

Except when specifically provided to the contrary, excavation shall include the removal of all materials of whatever nature encountered, including all obstructions of any nature that would interfere with the proper execution and completion of the work. The removal of said materials shall conform to the lines and grades shown or ordered.

Unless otherwise provided, the areas of construction shall be stripped of all vegetation and debris and such material shall be removed from the site prior to performing any excavation or placing any fill. Excavated material suitable for backfill shall be stored temporarily in such a manner as will facilitate work under the Contract.

Any damage done to private property by reason of work on easements shall be the responsibility of the Contractor. Fences and landscaping, which are removed or damaged by the Contractor, shall be restored to their original condition at the Contractor's expense.

The Contractor shall furnish, place, and maintain all supports and shoring that may be required for the sides of the excavations, and all pumping, ditching, or other approved measures for the removal or exclusion of water, including taking care of storm water reaching the site of the work from any source so as to prevent damage to the work or adjoining property.

Excavation shall be sloped or otherwise supported in a safe manner in accordance with applicable state and federal industrial safety requirements. Barriers shall be placed at each end of all excavations and at such places as may be necessary along excavations to prevent accidents. Lights shall also be placed along excavations from sunset each day to sunrise of the next day until such excavation is entirely refilled. All excavations shall be performed, protected, and supported as required for safety and in the manner set forth in the operating rules, orders, and regulations prescribed by the Division of Industrial Safety of the Department of Industrial Relations of the State of California.

**SAN ANTONIO WATER COMPANY
SPECIAL PROVISIONS**

2.05 PIPELINE TRENCH EXCAVATION

Unless otherwise shown or ordered, excavation for pipelines, fittings, valves, and appurtenances, shall be open-cut trenches. The bottom of the trench shall have a minimum width equal to the outside diameter of the pipe plus 12 inches and a maximum width equal to the outside diameter of the pipe plus 20 inches. Except when otherwise shown or ordered by the Company, the bottom of the trench shall be excavated uniformly to the grade of the bottom of the pipe. Rounding out the trench to form a cradle for the pipe will not be required.

(A) TRENCH OVER-EXCAVATED WHERE SHOWN - Trenches shall be over-excavated where shown, to the depth shown, and backfilled to the grade of the bottom of the pipe with suitably selected granular material or with sand. Said backfill shall be brought to optimum moisture content and compacted to 95 percent of maximum dry density where the pipeline trench passes under structures, and 90 percent elsewhere. Work specified in this subsection shall be performed by the Contractor at his own expense.

(B) TRENCH OVER-EXCAVATED WHEN ORDERED - Trenches shall be over-excavated beyond the depth shown, when ordered by the Inspector and in areas where poor soil (soft, spongy, or unstable material) or rock is encountered. Such over-excavation shall be to the depth ordered by the Inspector. The trench then shall be refilled to the grade of the bottom of the pipe with either selected granular material obtained from the excavation, sand, or crushed rock, at the option of the Company. When crushed rock bedding is ordered, the material shall be a well-graded material (Class II Aggregate Base). Bedding shall be placed in layers, brought to optimum moisture content, and compacted to 95 percent of maximum dry density where the pipeline trench passes under structures and 90 percent elsewhere. All work specified in this Subsection shall be performed by the Contractor at his own expense when the over-excavation ordered by the Company is less than 6 inches below the limits shown. When the over-excavation ordered by the Company is 6 inches or greater below the limits shown, additional payment will be made to the Contractor for that portion of the additional payment will be made under a separate unit price bid item for over-excavation and bedding if such bid item has been established. Otherwise, payment will be made in accordance with a negotiated price for execution of a change order.

(C) OVER-EXCAVATION NOT ORDERED, SPECIFIED, OR SHOWN - Any excavation carried below the grade ordered, specified, or shown, shall be refilled to the required grade with suitably selected granular material. Such material shall be moistened as required and compacted to 95 percent of the maximum dry density under structures and 90 percent elsewhere. The Contractor at his own expense shall perform such work.

2.06 SITE GRADING

After stripping has been done, all areas covered by the work, including excavated and filled sections shall be graded uniformly to the lines and grades indicated on the Drawings. The finished surface shall be reasonably smooth and well compacted. All excavated material suitable for fill shall be transported to and placed in the fill area within the limits of the work. All excavated materials which are unsuitable for fill shall be disposed of by the Contractor at his own expense. During construction, excavation and filling shall be performed in a manner and sequence that will provide drainage at all times. Ditches shall be cut accurately to the cross-sections and grades indicated. Any excessive ditch excavation shall be backfilled to grade with suitable, thoroughly compacted material or with suitable stone or cobble to form an adequate paving.

2.08

2.07 ROCK EXCAVATION AND BLASTING

Rock excavation shall include removal and disposal of the following:

- (a) All boulders measuring 1/3 of a cubic yard or more in volume

SAN ANTONIO WATER COMPANY SPECIAL PROVISIONS

- (b) All rock material in ledges, bedding deposits, and un-stratified masses which cannot be removed without systematic drilling and blasting
- (c) Concrete or masonry structures which have been abandoned
- (d) Conglomerate deposits which are so firmly cemented that they possess the characteristics of solid rock and which cannot be removed without systematic drilling and blasting.

Said rock excavation shall be performed by the Contractor at his own expense, provided that should the quantity of rock excavation be affected by any change in the scope of the work, and appropriate adjustment of the Contract price will be made under a separate additive-deductive bid item if such bid item has been established. Otherwise, payment will be made in accordance with a negotiated price.

All operations, storage, and handling of explosives shall be according to provisions of Division II, Part I, of the Health and Safety Code, State of California, and shall comply with all State, County, and local laws. Drilling and blasting are to be done only by personnel skilled in such operations. All necessary precautions shall be taken for protection of life and property. Warnings shall be given to nearby property owners that blasting is in progress. Safety mats shall be used to restrict flying particles. The Contractor shall size each blast to minimize nuisance and reduce the possibility of damage to local structures.

2.08 DISPOSAL OF EXCESS EXCAVATED MATERIAL

The Contractor shall remove and dispose of all excess excavated or waste material at his own expense.

Excavated material shall not be deposited on private property unless the Contractor furnish written permission, duly assigned by the owner of the private property involved, to the owner before such material is placed on private property.

2.09 BACKFILL (GENERAL)

Backfill shall not be dropped directly upon any structure or pipe. Materials used for backfill shall be selected material, free from grass, roots, brush, or other vegetation, or boulders having maximum dimension larger than twelve inches. Material coming within six inches of any structure or pipe shall be free of rocks or unbroken masses of earthy materials having maximum dimensions larger than three inches. Backfill shall not be placed around or upon any structure until the concrete has attained sufficient strength to withstand the loads imposed. Backfill around water retaining structures shall not be placed until the structures have been tested, and the structures shall be full of water while backfill is being placed.

Whenever the excavated material is unsuitable for backfill, the Contractor shall arrange for and furnish imported backfill material at his own expense.

All compaction shall be done in accordance with the applicable City requirements and regulations

2.10 PIPELINE TRENCH BACKFILL

- (A) Pipeline trenches shall be backfilled to a level 12 inches above the top of the pipe with selected sandy material obtained from the excavation; provided if, in the Engineer's opinion, said material is unsuitable for backfill purposes, imported material having a sand equivalent value of not less than 20 shall be used for this portion of the trench backfill. Imported sand backfill, when ordered by the Engineer, will be paid for under a separate unit price bid item if such bid item has been established; otherwise, payment will be made in accordance with negotiated price. Such material shall be compacted to 85 percent of maximum dry density.
- (B) After the initial portion of backfill has been placed as specified above, and after all excess water has completely drained from the trench, backfilling of the remainder of the trench may proceed. The remaining portion of the backfill shall be selected material obtained from the excavation per Section 2.12. Each layer shall be moistened and placed in horizontal layers. Each layer shall

SAN ANTONIO WATER COMPANY SPECIAL PROVISIONS

or otherwise compacted to 95 percent of maximum dry density where the trench is located under structures and 90 percent of maximum dry density within the top 3 feet.

- (C) Backfill around and beneath structures, and beneath paved areas except where otherwise specified for a particular structure or ordered by the Engineer, backfill placed around and beneath structures, and beneath paved areas, shall be placed in horizontal layers not to exceed 8 inches in thickness, as measured before compaction, where compaction is attained by mechanical means. Where the use of sheepsfoot rollers is impractical, the layers shall not exceed 6 inches in thickness before compaction, and compaction shall be attained by means of hand-operated power-driven tampers. The backfill shall be brought up evenly with each layer moistened and compacted by mechanical means to 95 percent of maximum dry density beneath structures and beneath paved areas, and 90 percent of maximum dry density around the sides of structures within the top 3 feet of the top of pipe.

2.11 COMPACTION TESTS

All compaction tests required by the Company shall be performed by the Company or its agent at the Company's expense. However, in the event these tests prove the compaction to be unacceptable to either the governing agency or the Owner, all cost for subsequent test will be deducted from the progress payments to the contractor.

In-place soil densities shall be determined by testing in accordance with the latest published edition of the ASTM D-1556 sand cone method or ASTM D-2922 for nuclear method.

Optimum soil moisture-density relations shall be established in accordance with the method of test specified in the latest published edition of ASTM Standard D-1557 method C.

In either case, the tests will be scheduled within 24 hours of the Contractor's request for tests, at locations to be selected by the Owner and/or the governing agency. However, tests shall not be scheduled until a minimum 4 hours work is available for the testing laboratory, as determined by the Engineer. Results of these tests shall then be available within 24 hours.

Required depth for testing relative compaction will be at top of pipe zone and every 3 feet thereafter. (Reference standard trench repair detail)

In accordance with provisions for guarantee of the work, the Contractor shall return at his expense to correct any backfill conditions subsequently found to be substandard by either failure or more extensive testing. The Contractor shall provide all labor and equipment necessary to prepare for all tests and to assist the soils engineer in taking the tests, as directed by the Engineer. The Contractor's attention is directed to additional provisions related to testing contained in Section 4-1.4 of the General Provisions.

**SAN ANTONIO WATER COMPANY
SPECIAL PROVISIONS**

**SECTION 3
“ASPHALT PAVING”**

3.01 GENERAL

This Section covers the furnishing and placement of asphalt concrete required for the repair and replacement of pavement along streets, private driveways, drainage easements and parking areas damaged by Contractor's operations. Where pavement is within the rights-of-way of the State Division of Highways, the County Transportation Department, County Flood Control District, and any City of other governmental agency having jurisdiction, paving shall be done in accordance with the requirements and the provisions of the permits issued by those agencies for the construction within their respective rights-of-way. Such requirements and provisions, where applicable, shall take precedence and supersede the provisions of these specifications. These technical specifications shall be the minimum requirement. In any case, the highway surface excavated or damaged by the Contractor shall be replaced in as good or better condition as the same was before such work was begun.

3.02 TEMPORARY PAVEMENT REPAIR

Place a minimum of 3 inches of aggregate base bedding material in the trench, then place 2 inches of compacted “cold mix” or regular asphalt concrete flush with existing pavement surface. On primary roads, after tacking the existing pavement and placement of base, AR 4000, Type B, 1/2 inch maximum hot mixed asphalt concrete shall be placed and compacted to finish grade

3.03 PERMANENT PAVEMENT REPAIR

Shall be performed by a licensed paving contractor.

3.04 SPREADING AND ROLLING EQUIPMENT

- (A) All distribution and spreading equipment shall conform to the Standard Specifications for Public Works Construction, Section 302-5.5. Additionally, all self propelled vibrating screen paving machines shall have no more than a (1) foot extension on its spreader box.

- (B) All rolling equipment shall conform to the Standard Specifications for Public Works Construction Section 302-5.6.

**SAN ANTONIO WATER COMPANY
SPECIAL PROVISIONS**

**SECTION 4
“MATERIAL”**

4.01 MATERIALS FURNISHED BY THE CONTRACTOR

Except as otherwise stated on the bidding sheets, these Special Provisions, or ordered by the Company, all material shall be furnished by the Contractor. Contractor shall furnish all material noted with the following provisions applying:

- (A) The Contractor shall furnish the Company, as soon as issued duplicate copies of all orders placed outside the Contractor's plant for articles or materials to be furnished by the Contractor for incorporation in the work.

- (B) The Contractor shall also furnish the Company with Certificates of Compliance respecting the character of the material to be used.

SAN ANTONIO WATER COMPANY SPECIAL PROVISIONS

SECTION 5 "INSTALLATION OF PIPE"

5.01 GENERAL

The work covered in this section includes the furnishing, installation, and testing of pipe, fittings, and all required appurtenances as shown on the plans. Water line shall be either ductile iron pipe (DIP), or steel pipe (CLML&W steel or CML& steel) as specified herein. In addition to the referenced AWWA Standards, pipe handling, storage and installation shall be in accordance with the following instructions.

- (A) **INSPECTION** - Examine the pipe and fittings for cracks, dents, abrasions, or other flaws prior to installation. Mark defective pipe and remove from the site.
- (B) **DUCTILE PIPE AND FITTINGS** - Install DIP per AWWA Standard C600. Proper and suitable tools and appliances for safe handling of pipe and fittings shall be employed. Care shall be exercised to avoid damage to pipe and fittings. All pipe and fittings shall be carefully examined by the Contractor for defects at the time of laying, and no defective pipe or fittings shall be installed. The engineer may waive rejection on the condition that cradling or encasement is provided or the corrective measures taken. All such work shall be done at the Contractor's expense. All pipe and fittings shall be thoroughly clean at the time of installation and shall be handled in such a manner as to maintain this condition by preventing the entrance of foreign material. Whenever workmen are absent from the job site, open ends of pipe shall be kept plugged. Each section of pipe shall be accurately laid to the required line and grade and shall have a firm bearing for its full length except for a minimum distance at bell holes. After the socket and plain end are wiped clean of all sand and dirt, the plain end should be entered into the socket. It is essential that pipe and fittings be kept level and in straight alignment and that the pipe sections be pulled together slowly to assure proper installation. Joints shall not be deflected beyond the maximum values as specified by the manufacturer.
- (C) **STEEL PIPE**— Steel pipe shall be cement lined and coated (CML & C) for buried pipe and (CML & painted for above ground installations. Installation shall be in accordance with Section 207-10 "Steel Pipe" of the Standard Specifications for Public Works Construction, 1997 Edition, the project plans and the Special Provisions of the San Antonio Water Company. Pipe shall standard steel cylinder with weld ends. All joints shall be solid welded.

The cement mortar coating on buried steel pipe in the vicinity of couplings shall be removed to facilitate the installation of the coupling. The extent of coating removal shall be only the minimum required for proper installation and function of the coupling.

Trench excavation, bedding and structure backfill shall be in accordance with the San Antonio Water Company's Typical Backfill Schematic.

Full compensation for furnishing all labor, materials, tools, equipment and incidentals for doing all the work involved in the construction of CML&C steel water main, complete in place, shall be considered as included in the contract unit price per lineal foot paid for CML&C water main, and no additional compensation will be allowed therefor.

- (D) **FITTINGS** – Water main fittings, tees, bends and reducers shall be made of the same material and finish as the main line. Couplings, adapters, flanges and other appurtenances shall be in conformance with the San Antonio Water Company Special provisions covering construction materials. Steel welded fittings, which meet the San Antonio Water Company Special Provisions, are acceptable for bends and reducers.

**SAN ANTONIO WATER COMPANY
SPECIAL PROVISIONS**

Full compensation for furnishing all labor, materials, tools, equipment and incidentals for doing all the work involved in the construction of the water main fittings, tees, bends and reducers, complete in place, shall be considered as included in the contract unit price for the fitting, tee, bend or reducer and no additional compensation will be allowed therefor.

**SAN ANTONIO WATER COMPANY
SPECIAL PROVISIONS**

**SECTION 6
“INSTALLATION OF VALVES, HYDRANTS, AND FITTINGS”**

7.01 VALVES

Unless otherwise indicated on the plans, all line valves shall be buried with the exception of all geared valves (or any other valves indicated on the plans), which shall be set in valve vaults or manholes. The operating nut on a buried valve shall be readily accessible for operation through a valve box which has been set to finish grade and in a vertical position. Rubber ring grooves of valves shall be inspected before installation by the Contractor for ridges or holes, which would interfere with the rubber ring. Interference with the rubber ring shall be corrected to a satisfactory connection or the valves replaced, as required by the Company. All valves shall have the same rubber-ring groove profile as the profile in the groove on the pipe couplings furnished with the pipe. All gate valves shall be anchored in concrete as specified by these Special Provisions and Standard Drawings herein. The anchor shall bear against undisturbed ground in all cases, except where unstable conditions are encountered, in unstable conditions, the bearing surface shall be as directed by the Inspector

Valve boxes shall be firmly supported and shall be kept centered and plumb over the wrench nut of the valve; the box cover shall be flush with the surface of the finished pavement or at any other level designated by the Inspector.

7.02 AIR AND VACUUM RELEASE VALVES

Air and vacuum release valves shall be installed as shown on the job plans.

**SAN ANTONIO WATER COMPANY
SPECIAL PROVISIONS**

**SECTION 7
“THRUST BLOCKS AND ANCHOR BLOCKS”**

8.01 GENERAL

Anchors and thrust blocks shall be constructed as specified herein, shown on the Standard Drawings or where directed by the Inspector and as specified herein. In general, thrust blocks and anchors must be placed at all angles greater than five degrees, at changes in pipe size, at cast-iron fittings, at hydrant locations and on steep slopes.

Steel rods used for tie downs and enforcement shall be Rebar No. 4 coated with Minnesota Mining and Manufacturing EC44, Koppers Bitumastic 505 (Supertank), or an approved equal.

Concrete used will be a minimum class rating of 450-C-2000.

8.02 THRUST BLOCKS

The area and design of the bearing surface shall be as specified by the Standard Drawing for thrust blocks. The bearing surface shall be against undisturbed ground in all cases, except where unstable conditions are encountered. In unstable conditions, the bearing surface shall be as directed by the Inspector. Unless otherwise directed by the Inspector, the thrust blocks shall be placed so that the pipe and fitting joints are accessible for repair. Polyethylene shall be installed between the fitting and concrete to provide as a bond break.

SAN ANTONIO WATER COMPANY SPECIAL PROVISIONS

SECTION 8 “CLEANING AND DISINFECTION OF WATER MAINS”

9.01 GENERAL (Not Applicable)

Disinfection of water mains applies to all construction involving *domestic* pipelines. After the pipelines have been cleaned and tested, but before they have been connected to the existing system, disinfection shall be accomplished. In the event groundwater is encountered and it is impossible to prevent its entrance into the mains, or the mains are not free from dirt, they shall be thoroughly flushed prior to disinfecting. During the chlorinating process, all valves and facilities shall be operated. All water mains, water services, attached appurtenances, and connections if any shall be disinfected in accordance with the latest revision of AWWA C601 and as specified herein.

9.02 DISINFECTION OF WATER MAINS (Not Applicable)

- a. Tablet Disinfection – Tablet disinfection may be used. This method may be used only for lines when scrupulous cleanliness has been exercised. It shall not be used if water or foreign material has entered the main, or if dewatering and repairs are required because preliminary flushing cannot be used. Where tablet disinfection is permitted, the disinfection solution shall be made by the use of hypochlorite tablets attached by means of gasket cement to the inside top of the lengths of pipe as they are being laid, followed by the filling of the main with water. The amount of adhesives shall be limited to the smallest practicable amount applied to one side of the tablet only. The tablets shall have an average weight of 5 grams each and shall contain not less than 70 percent of available chlorine.
- b. Residual Chlorine Test – After 24 hours of retention, the hypochlorite solution will be tested by the Engineer, and to be acceptable, shall have a minimum of twenty-five (25) parts per million of residual chlorine.
- c. Additional Disinfection – If the test results are not satisfactory, the Contractor shall provide a 2-inch outlet for the connection of injection type chlorination equipment, after which the Contractor shall inject chlorine solution into the main for the necessary additional disinfection.

9-03 FLUSHING OF WATER MAINS (Not Applicable)

Following the period of retention and after testing of residual chlorine by the Owner, the chlorinated water shall be thoroughly flushed from the line until the replacement water throughout the length of the pipeline is comparable in quality to the water served the public for the existing system. The Owner shall take the necessary samples for bacteriological tests in accordance with the State Department of Public Health Standards.

Care shall be taken that the water is flushed from the line at its extremities and that the services are free of chlorinated water before being placed in service.

The chlorinated water may be used later for the testing of other lines, or if not so used, shall be disposed of by the Contractor. The Company will not be responsible for loss or damage resulting from such disposal. When a hypochlorite solution has been used for disinfecting the main, the flushing shall be in a direction opposite to that from which the line was filled.

The Contractor shall furnish all equipment in good operating condition, labor, material, and water necessary for chlorinating and flushing the pipeline and for certification of the pipeline disinfecting.

The Company may require chlorinating of new water main facilities to be done by an independent chlorinating company who will provide a certified operator for the duration of the tests and a certified chlorinating result to the Engineer.

SAN ANTONIO WATER COMPANY SPECIAL PROVISIONS

SECTION 9 “HYDROSTATIC TESTING & LEAKAGE ALLOWANCE”

10.01 GENERAL

Hydrostatic and leakage test specifications applies to all construction involving pipelines, whether it is a main construction, booster plant piping, or reservoir piping, excepting reservoir drain lines.

The required test pressures shall be applied by a pump connected to the pipe in a manner satisfactory to the Engineer. The Contractor shall provide calibrated meters for measurement of the leakage, necessary bulkhead, piping, gauges, pumps, power, and labor, and perform and furnish everything necessary for making all tests required, at his own expense and shall furnish to the Engineer copies of all tests performed.

The Contractor, at his own expense, shall do all excavation necessary to locate and repair leaks or other defects which may develop under test, including removal of backfill already placed, and shall replace such excavated material and shall make all repairs necessary to the required water tightness, after which the required tests shall be repeated until the pipe and fittings meet the requirements set forth herein.

10-02 HYDROSTATIC TESTING

Upon completion of the laying, joining, backfilling and compacting of backfill, and at least seven days after the last concrete thrust device has been placed, the pipe and fittings involved in the construction shall be filled with water for a minimum of 24 hours. Care shall be taken to see that all air vents are open during the filling, and after the section has been completely filled, it shall be allowed to stand under a light pressure for a sufficient length of time to allow any cement mortar lining to absorb and to allow the escape of air from any air pockets. During this period, all fittings and connections shall be examined for leaks. If any are found, they shall be stopped. A test pressure 50% greater than the class of pipe and fittings shall then be applied to sections and maintained for a four-hour period. Test sections will be chosen which give, as nearly as possible, constant pressure throughout the section with the pressure being measured at the lowest point. Any noticeable leaks shall be stopped and any defective pipe shall be replaced with new sections.

The test shall be made prior to connecting the new line with the existing Company's pipes and mains. The test shall further be conducted with the open ends of pipes, valves, and fittings suitably closed. Valves shall be operated during the test period.

The test shall be conducted in the following manner. All air shall be expelled from the pipe. To accomplish this, if air valves, hydrants, or other outlets are not available, taps shall be made at the high points to expel the air, and these taps shall be tightly plugged afterwards. The pressure in the pipeline shall then be pumped up to the specified test pressure. When the test pressure has been reached, pumping shall be discontinued until the pressure in the line has dropped 5 psi, at which time the pressure shall again be pumped up to the specified test pressure. This procedure shall be repeated until four hours have elapsed from the time the specified test pressure was first applied. At the end of the four-hour test period, the pressure shall be pumped up to the test pressure for the last time.

Contractor shall provide at his own expense, the installation and material for all temporary blowoffs.

10.03 LEAKAGE ALLOWANCE

The leakage allowance shall be in accordance with the latest revision of AWWA C-600. The leakage shall be considered, as the total amount of water pumped into the pipeline during the four-hour period including the amount required in reaching the test pressure for the final time. Leakage shall not exceed the rate of 11.65 gallons per inch of diameter per mile of pipe per 24 hours. Any noticeable leak shall be

**SAN ANTONIO WATER COMPANY
SPECIAL PROVISIONS**

ories discovered in consequence of the test, shall be removed and replaced by the Contractor with sound material and the test shall be repeated until the total leakage during a test of two hours duration does not exceed the rate specified below. The following table indicates the leakage allowance for various sizes of pipe and is equal to the number of gallons per hour test per 1,000 feet of pipe being tested.

**ALLOWABLE LEAKAGE
STEEL & DIP PER 1000 FEET OF PIPELINE*
(GALLONS PER HOUR)**

Pipe Test Pressure at Lowest Point in Line (psig)

Avg. Test Pressure (psi)	NOMINAL PIPE DIAMETER / INCHES										
	3	4	6	8	10	12	14	16	18	20	24
450	0.48	0.64	0.95	1.27	1.59	1.91	2.23	2.55	2.87	3.18	3.82
400	2.45	0.60	0.90	1.20	1.50	1.80	2.10	2.40	2.70	3.00	3.60
350	0.42	0.56	0.84	1.12	1.40	1.69	1.97	2.25	2.53	2.81	3.37
300	0.39	0.52	0.78	1.04	1.30	1.56	1.82	2.08	2.34	2.60	3.12
275	0.37	0.50	0.75	1.00	1.24	1.49	1.74	1.99	2.24	2.49	2.99
250	0.36	0.47	0.71	0.95	1.19	1.42	1.66	1.90	2.14	2.37	2.85
225	0.34	0.45	0.68	0.90	1.13	1.35	1.58	1.80	2.03	2.25	2.70
200	0.32	0.43	0.64	0.85	1.06	1.28	1.48	1.70	1.91	2.12	2.55
175	0.30	0.40	0.59	0.80	0.99	1.19	1.39	1.59	1.79	1.98	2.38
150	0.28	0.37	0.55	0.74	0.92	1.10	1.29	1.47	1.66	1.84	2.21
125	0.25	0.34	0.50	0.67	0.84	1.01	1.18	1.34	1.51	1.68	2.01
100	0.23	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	1.50	1.80

- * If the pipeline under test contains sections of various diameters, the allowable leakage will be the sum of the computed leakage for each size.

MATERIALS SECTION

INDEX

DESCRIPTIONS	PAGE
SECTION 1 CONTROL OF MATERIALS	MAT-1
SECTION 2 PORTLAND CEMENT CONCRETE REINFORCING	MAT-2
SECTION 3 PVC WATER PIPE	MAT-3
SECTION 4 CAST IRON FITTINGS	MAT-4
SECTION 5 TYPES OF JOINTS	MAT-7
SECTION 6 RESILIENT WEDGE GATE VALVES	MAT-8
SECTION 7 BUTTERFLY VALVES	MAT-9
SECTION 8 MISCELLANEOUS VALVES	MAT-10

SAN ANTONIO WATER COMPANY MATERIALS

SECTION 1 “CONTROL OF MATERIALS”

1.01 SAMPLES AND TESTS

At the option of the Company, the source of supply of each of the materials shall be approved before the delivery is started and before such materials is used in the work.

All tests of materials furnished by the Contractor shall be made in accordance with the commonly recognize standards of national technical organizations and such special methods and tests as are prescribed in these Specifications.

The Contractor shall furnish the Company a certified copy of all requested factory and mill test reports. Any materials shipped by the Contractor from a factory or mill prior to having satisfactorily passed such testing and inspections by a representative of the Company, shall not be incorporated in the work unless the Company has notified the Contractor verbally and/or in writing that such testing and inspections will not be required.

The Contractor shall furnish and deliver to the laboratory such samples of materials as are requested by the Agency without charge. No material shall be useful until it has been approved by the Agency and/or Inspector. Samples will be secured and tested whenever necessary to determine the quality of the material. All testing expenses are to be paid by the Contractor.

1.02 DEFECTIVE MATERIALS

All materials not conforming to these Specifications shall be considered defective, and all such materials whether in place or not, shall be rejected and shall be removed immediately from the site of the work unless otherwise permitted by the Agency. No rejected material, the defects of which have been subsequently corrected, shall be used until approved in writing by the Agency.

SAN ANTONIO WATER COMPANY MATERIALS

SECTION 2 “PORTLAND CEMENT CONCRETE REINFORCING”

2.01 GENERAL AND CLASSES

All Portland Cement Concrete shall conform to the provisions of Section 201 of the Standard Specifications for Public Works Construction, latest edition, except as herein modified. The cement aggregate content for the various classes of concrete shall be as specified in Subsection 201-1.1.2 of the aforementioned Standards.

2.02 CEMENT

Portland Cement, including Portland Cement used in pre--cast products, shall be Type II or Type V, conforming to ASTM C150.

2.03 PORTLAND CEMENT

Portland Cement Concrete shall be composed of Portland Cement, fine aggregate, coarse aggregate, and water proportioned and mixed to produce a smooth dense workable mixture. It can be of the ready-mix variety as produced by any reliable ready-mix concrete firm.

2.04 REINFORCING STEEL

Reinforcing steel shall be deformed bars from new billet stock or intermediate grade conforming to the requirements of the latest revision of ASTM A15 and A305, and shall be of the required sizes and shapes and placed where shown on the Drawings or prescribed by the Company. The reinforcement shall be so secured in portion that it will not be displaced during the depositing of concrete. All reinforcing steel shall be completely encased in concrete. Wire mesh shall conform to ASTM A185. All bars shall be bent cold and at the time of concrete placement. They shall be free from rust, scale, oil, or any other coating which would reduce or destroy the bond between concrete and steel.

2.05 PRECAST CONCRETE VAULT STRUCTURES

Per Plan.

2.06 AGGREGATE FOR USE IN CONCRETE

All aggregates for use in concrete shall conform to the requirements as set forth in the Standard Specifications for Public Works Construction, Subsection 200-1. Aggregates shall be of such character that it will be possible to produce workable concrete within the limits of slump and water content in Subsections 201-1.1.2 and 201-1.3.3 of the Standard Specifications for Public Works Construction, latest edition.

SAN ANTONIO WATER COMPANY MATERIALS

SECTION 3 "PVC WATER PIPE"

3.01 PVC WATER PIPE

PVC shall be made from all new rigid unplasticized polyvinyl chloride. PVC pipe shall be Class 150 unless otherwise noted on the drawings and shall conform to the requirements of AWWA C900 "Standard for Polyvinyl Chloride (PVC) Pressure Pipe, 4-inch through 12" for water". PVC Pipe shall be furnished in cast-iron pipe equivalent outside diameters with rubber gasketed couplings.

Approved pipe:

1. J-M Pipe (Johns-Manville)
2. PW Pipe (Pacific Western)
3. Vinyltech

SAN ANTONIO WATER COMPANY MATERIALS

SECTION 4

“CAST IRON FITTINGS”

4.01 GENERAL

All cast iron fittings shall comply with the latest revision of AWWA Standard C110, “Cast Iron Fittings, 3 inches through 48 inches for Water and Other Liquids”. All fittings will be made in the United States of America, no substitutions will be allowed unless pre-approved by Agency.

Unless otherwise specified, the inside coating for fittings shall be cement lined as thick as practicable, and conform to all appropriate requirements for seal-coat in the latest revision of AWWA Standard C104.

The exterior surfaces shall be coated with a bituminous material in conformance with AWWA Standard C110. The coating shall be free from blisters and holes, shall adhere to the metal surface at all temperatures encountered in the field, shall be smooth, and shall not become sticky when exposed to the sun. The coating shall be checked by the manufacturer with a suitable electrical holiday detector.

If specified in the Bidding Documents, each fitting shall be tested to 1-1/2 times the working pressure for a duration of ten seconds. Suitable controls and recording devices shall be provided so that the test pressure and duration may be adequately ascertained. Any fitting that does not withstand the test pressure shall be rejected. The Contractor may be required to notify the Agency in advance of the date, time, and place of inspection and testing of the fittings in order that the Agency may be represented at the tests. When specified in the Bidding Documents, a certification of compliance to these Specifications shall be filed with the Agency.

(A) STANDARD CAST IRON FITTINGS - Standard bell and spigot cast iron pipe fittings shall conform to the requirements of the “American National Standard for Ductile-Iron and Gray-Iron Fittings, 3 inch thorough 48 inch for Water and Other Liquids” (AWWA C110). Standard flanged cast iron fittings shall conform to the requirements of the “American Standard for Cast Iron Pipe Flanges and Flanged Fittings” (ANSI B16.1), Class 125.

(B) SHORT BODY CAST IRON FITTINGS- (Push-on fittings or flange x push-on for PVC only). Short body cast iron fittings shall conform to the requirements of the “American National Standard for Ductile Iron Fittings, 3 inch through 16 inch, for Water and Other Liquids” (AWWA C153). Fittings shall have a wall thickness of not less than that of the pipe with which they are used.

Approved manufacturers:

1. Tyler
2. Union Foundry
3. U.S. Pipe

SAN ANTONIO WATER COMPANY MATERIALS

SECTION 5 "TYPES OF JOINTS"

5.01 TYPE

The joints shall be as specified on the Drawings and detailed therein.

5.02 FITTINGS FOR DUCTILE IRON

Fittings shall be cast iron (gray or ductile) in accordance to the applicable requirements of AWWA Standard C110 (ANSI A21.10). The ends of the fittings shall be push-on, rubber gasketed type, mechanical or flanged joints, as required or shown on the Drawings. Restraint joint fittings shall be used when shown on the Drawings and shall be in accordance with AWWA Standard C110 (ANSI A21.10). Fittings shall be "TR-Flex" as manufactured by U.S. Pipe, or equal. Restraint push-on joints for pipe and fittings shall be rated for a water working pressure of not less than 350 psi.

5.03 FLANGES

Unless otherwise indicated on the Drawings, all cast iron fittings with flanged ends shall comply with the latest version of ANSI B16.1, "Cast Iron Pipe Flanges and Flanged Fittings, Class 125".

The gasket surface shall have a serrated finish of approximately sixteen serration's per inch, approximately 1/32 inch deep, with serration's in either a concentric or spiral pattern. In addition, all flanges shall meet the following tolerances:

Bolt circle drilling	(plus or minus)	1/16 inch
Bolt hole spacing	(plus or minus)	1/32 inch
Eccentricity of bolt circle and facing		1/32 inch
(with respect to bore)	maximum	

Approved manufacturers:

1. Tyler
2. Union Foundry

5.04 GASKET MATERIAL FOR FLANGES

Gaskets for flanged joints shall be made of asbestos composition sheet packing, graphitize on both sides, 1/16 inch in thickness. Gaskets shall be of a quality equal to Crane Company, Granite, Johns Manville 60 Asbestos, or Garlock 7071.

5.05 BOLTS AND STUDS FOR FLANGED FITTINGS

Bolts and studs shall be cadmium plated and shall conform to ASTM A307, Grade B, "Steel Machine Bolts and Nuts and Tap Holes", when a ring gasket is used and shall conform to either ASTM A261, "Heat Treated Carbon Steel Bolting Material", or ASTM A193, "Alloy Steel Bolting Material for High Temperature Service", when a full face gasket is used.

Bolts and nuts shall be heavy hexagon series, Nuts shall conform to ASTM A194, "Carbon and Alloy Steel Nuts for Bolts for High Pressure and High Temperature Service", either in Grade 1,2 or 2H. The fit shall be ANSI B1.1, "Unified Screw Threads", Class 2, except that Class 3 fit shall be used in holes tapped for studs. Threads may be made by either cutting or cold forming. Between 1/4 inch and 3/8 inch shall project through the nut when drawn tight.

5.06 COUPLINGS

Flex coupling, center and end rings shall be ductile iron and shall conform to ASTM A536 Grade 65-45-12. Gaskets shall be virgin SBR compounded for water and sewer service and conform to ASTM alloy steel for AWWA C-111-64 specifications.

Flex couplings are to be used as called out per plan on steel tie-ins only.

**SAN ANTONIO WATER COMPANY
MATERIALS**

Approved manufacturers:

1. Romac 501 series only (no substitute)

SAN ANTONIO WATER COMPANY MATERIALS

SECTION 6 RESILIENT WEDGE GATE VALVES

6.01 GENERAL

All valves shall be new and of current manufacture. Valves shall only be installed where specifically called for on the construction plans approved by the Agency.

The laying lengths and the end flanges of flanged valves shall conform in dimensions and drilling to ANSI B16.1 for Cast Iron Flanges and Flanged Fittings. Flanges of valves designed for a working pressure of 175 psi or less shall be faced and drilled to a 125 pound American Standard Dimension. Flanges of all valves designed for a working pressure of greater than 175 psi shall be faced and drilled to a 260 pound American Standard Dimension.

Push-on joints shall conform to the requirements of ANSI/AWWA C111/A21.11.

Each valve shall be tested under a test pressure equal to twice its design water working pressure.

The Contractor is to make a choice of an approved valve and then use it throughout the total project.

6.02 RESILIENT WEDGE GATE VALVES

Resilient wedge gate valves shall conform to the latest revision of AWWA C509, "Standard for Resilient Wedge Gate Valves for Ordinary Water Works Service". Resilient wedge gate valves shall be designed for a water working pressure of 200 psi and shall be iron bodied, non-rising stem opening to the left, and provided with two o-ring stem seals and a two inch square operating nut. All interior parts of gate valves, except the gate, shall be constructed of bronze conforming to the requirements of ASTM B62. All ferrous parts of the valve, inside only except the gate, shall be coated with fusion-bonded epoxy in accordance with the latest revision of AWWA C-550. The gate shall be fully encapsulated in molded rubber conforming to the requirements of ASTM D2000. The manufacturer's name or symbol, the size of the valve, the year of manufacturer, and the working water pressure shall be cast in the bonnet or body of the valve. Each valve shall be tested to twice the working pressure. Valves shall be furnished with ends as specified on the plans or by the Inspector.

The interior of all valves shall be fusion-bonded epoxy-coated to a thickness of 6-8 mils of epoxy.

Approved types:

1. Mueller
2. American AVK
3. Clow
4. M & H

SAN ANTONIO WATER COMPANY MATERIALS

SECTION 7 "BUTTERFLY VALVES"

7.01 **GENERAL**

Butterfly valves shall be furnished and installed by the Contractor at the location and in accordance with the type of ends as shown on the Plans and as herein specified.

7.02 **BUTTERFLY VALVES**

All butterfly valves shall be tight closing, with rubber seats, which are recess mounted and securely fastened to the valve body or fastened to the disc. Valves shall be bubble tight at rated pressures and shall be satisfactory for applications involving valve operation after long periods of inactivity. Valve discs shall rotate 90 degrees from the full open position to the tightly shut position. Valves shall meet the full structural requirements of the applicable classes of latest revision of AWWA C504. The manufacturer shall have manufactured tight closing rubber seated butterfly valves for a period of at least five years.

Valve bodies shall be constructed of cast iron ASTM A126, Class B. Flange drilling shall be in accordance with ANSI B16.1 Standard for cast iron flanges. Two trunnions for shaft bearings shall be integral with each valve body. Body thickness shall be strictly in accordance with the latest revision of AWWA 504. The interior of the valve body shall be fusion-bonded epoxy-coated with 8-10 mils of epoxy or factory applied thermosetting epoxy.

Shafts of all valves shall be turned, ground, and polished. Valve shafts shall be constructed of 18-8, Type 304 stainless steel or high tensile strength carbon steel, provided the shaft is sealed from the line contents and shall be a one piece unit extending full size through the valve disc and valve bearings.

Valves shall be fitted with sleeve type bearings. Bearings shall be corrosion resistant and self-lubricating. Bearing load shall not exceed 2,500 psi.

Valve operators shall be designed to hold the valve in any intermediate position between fully opened and fully closed without creeping or fluttering. Valve operators shall be of the enclosed gear or screwed rod type manufactured specifically for buried service operation. Orientation of actuator shall be on left side of valve when viewed through valve from the flanged end. Valves shall open with a counterclockwise or left rotation of the operator nut. All butterfly valves shall have the minimum shutoff pressure rating of 150 psi.

Approved types:

1. Henry Pratt Company
5. Mueller
6. M&H

SAN ANTONIO WATER COMPANY MATERIALS

SECTION 8 "MISCELLANEOUS VALVES"

8.01 AIR RELEASE AND VACUUM VALVES

Valves shall be of the size shown and shall have flanged or screwed ends to match piping. Bodies shall be of high strength cast iron. The float, seat, and all moving parts shall be constructed of Type 18-8 stainless steel. Seat washers and gaskets shall be of material ensuring water tightness with a minimum of maintenance. Valves shall be designed for minimum 150-psi water-working pressure. Unless otherwise noted, valves shall be combination air release and vacuum valves.

Approved valves:

1. APCO/Bulletin 623, #143C (1") #145C (2")
2. Crispin
3. Golden-Anderson Valve Specialty Company
4. or approved equal

8.02 PRESSURE GAUGES

Unless otherwise shown, pressure gauges shall be plain case, bottom connection with bronze bourdon tube and bronze or stainless steel movement. Gauge accuracy shall be plus or minus 1 percent of full scale. Range shall be shown. Dial size shall be 4-1/2 inches. Gauges shall be liquid filled with glycerin or silicone.

Gauge protectors shall be provided. Protectors shall be flanged diaphragms having a stainless steel diaphragm and 1/2-inch connection.

Approved gauges:

1. Irrrometer

CONSTRUCTION OF THE HOLLY DRIVE RESERVOIR PHASE III

TECHNICAL SPECIFICATIONS SECTION

INDEX

<u>SECTION</u>	<u>DESCRIPTIONS</u>
01000	SUMMARY OF WORK
01010	WORK RESTRICTION & SEQUENCE OF WORK
01300	SUBMITTALS
02100	SITE PREPARATION
02200	EARTHWORK
02513	ASPHALT CONCRETE PAVING
03100	CONCRETE FORMWORK
03200	CONCRETE REINFORCEMENT
03300	CAST-IN-PLACE CONCRETE
15076	PIPING AND APPURTENANCES
15100	VALVES

SECTION 01000 SUMMARY OF WORK

PART 1 – GENERAL

1.1 WORK UNDER THIS CONTRACT

- A. The CONTRACTOR shall furnish all labor, materials, equipment and means to construct the project entitled **Well 31 Pipeline Replacement**, as shown on the Drawings and described herein. The work includes, but is not limited to, the following:

1. Replacing the existing 14" P.V.C pipeline with a 12" P.V.C pipeline that connects the existing SAWCO Well 24 Site to Well 31 Site. Construction improvements include but are not limited to; excavate, removal and disposal of the existing pipeline; installation of pipeline, valves, fittings, couplings, thrust blocks, drainage, concrete work, and reconstruction of existing curb return.

1.1 LOCATION

- A. All work is to be performed on property owned by San Bernardino County with San Antonio Water Company as an easement holder. The property is located in the Well 24 site to the Well 31 site in Upland, California, 91784.

1.2 COMPLETION OF WORK

- A. All work shall be completed within the number of calendar days consistent with the Contract Completion Schedule noted in the Information for Bidders. If work is not completed within the number of calendar days specified, Contractor shall bear all additional expenses incurred after contract completion schedule.

1.3 LIQUIDATED DAMAGES

- A. As defined in Contract Documents, the amount fixed for liquidated damages for delay in completion of Contract work is \$1000 per day.

1.4 HOURS OF WORK

- A. The Contractor's activities shall be confined to an eight-hour shift between the hours of 8:00 a.m. and 4:30 p.m. Monday through Thursday and 8:00 a.m. to 4:30 pm on Fridays, excluding holidays. Deviation from these hours will not be permitted without the prior consent of the Engineer, except in emergencies involving immediate hazard to persons or property. In the event of either a requested or emergency deviation, inspection service fees for Owner personnel and any third-party inspector will be charged against the Contractor. The service fees will be calculated at overtime rates including benefits, overhead, and travel time. The service fees will be deducted from any amounts due the Contractor. Charges will be made for any change to extraordinary work hours, including standby time due to late crew arrival or "no-show" by crew.
- B. Inspections requested by or made necessary as a result of actions by the Contractor on Saturdays, Sundays or holidays must be scheduled and approved by Engineer and paid

for by Contractor at the prevailing rate for overtime or holiday work.

1.5 SITE INSPECTION

- A. It shall be the Contractor's responsibility to make all examinations, inspections, field studies and measurements necessary for his own determination of the character of conditions that will be encountered in the work and to fully determine all related cost factors.
- B. Contractors may obtain assistance in inspecting the site by calling the Water Company, telephone (909) 982-4107.

1.6 DEFINITIONS

- A. "Engineer" refers to the person authorized by the Water Company to oversee the execution of the contract, acting either directly or through his properly authorized agents, each agent acting only within the scope of authority delegated to him.
- B. "Company" and "Owner" refers to the San Antonio Water Company.
- C. "Company Inspector" refers to the person authorized by the Company to oversee the coating and painting operations and construction activities acting only within the scope of authority delegated to him.

1.7 WORK BY OTHERS

- A. Where two or more contracts are being performed at one time on the same site or adjacent land in such manner that work under one contract may interfere with work under another, the OWNER will determine the sequence and order of the Work in either or both contracts. When the site of one contract is the necessary or convenient means of access for performance of the work under another, the OWNER may grant privilege of access or other reasonable privilege to the contractor so desiring, to the extent, amount and in manner and at time that the OWNER may determine. No OWNER determination of method or time or sequence or order of the work or access privilege shall be the basis for a claim for delay or damage except under provisions of the General Conditions for temporary suspensions of the work. The CONTRACTOR shall conduct its operations so as to cause a minimum of interference with the work of such other contractors, and shall cooperate fully with such contractors to allow continued safe access to their respective portions of the site, as required to perform work under their respective contracts.

1.8 CONTRACTOR USE OF SITE

The job site is located in a golf course and residential community.

- A. Access to Well 24 and 31 Site: There is a restricted access to the SAWCO Well 24 and 31 Site and must be coordinated with the District prior to Construction. **The District will provide a temporary access code for the duration of the Project.**
- B. Time restrictions for performing all work shall be as specified on applicable permits and in applicable local ordinances.

- C. Utility outages and shutdown: Shall be coordinated with the Company sufficiently in advance of the need to assure that service to Company's customers will not be affected.
- D. The CONTRACTOR may not have exclusive use of the site during his construction operations. CONTRACTOR may be required to work concurrently with in close proximity to the COMPANY and to coordinate his work with the work of the COMPANY.
- E. Since the job site is located in a private gated community, it will be Contractor responsibility to obtain written permission from the private property owners to store or park any equipment, parts or excavation/backfill materials. A copy of said permission shall be provided to the District prior to construction.

1.9 WORK SEQUENCE

- A. The work shall be carried on at such places on the project and also in such order or precedence as may be found necessary by the Engineer to expedite the completion of the project. After work has begun on any portion of designated part of the project, it shall be carried forward to its final completion. All work shall conform to the provisions of the approved Contractor's schedule and as specified in Section 01010 Work Restrictions and Sequence of Work.
- B. The Contractor shall cooperate fully with all utility forces of the Owner or forces of other public or private agencies engaged in the relocation, altering, or otherwise rearranging of any facilities which interfere with the progress of the work, and shall schedule the work so as to minimize interference with said relocation, altering, or other rearranging of facilities.

1.10 ABBREVIATIONS

Wherever the following abbreviations are used they shall have the meanings indicated:

AASHTO....	American Association of the State Highway and Transportation Officials
ACI.....	American Concrete Institute
AGA.....	American Gas Association
AGMA.....	American Gear Manufacturer's Association
AI.....	The Asphalt Institute
AIA.....	American Institute of Architects
AISC.....	American Institute of Steel Construction
AISI.....	American Iron & Steel Institute
AITC.....	American Institute of Timber Construction
ANSI.....	American National Standards Institute
APA.....	American Plywood Association
API.....	American Petroleum Institute
ASCE.....	American Society of Civil Engineers
ASHRAE....	American Society of Heating, Refrigerating, and Air Conditioning Engineers
ASME.....	American Society of Mechanical Engineers
ASQC.....	American Society for Quality Control
ASTM.....	American Society for Testing and Materials
AWPA.....	American Wood Preservers Association
AWPI.....	American Wood Preservers Institute
AWS.....	American Welding Society
AWWA.....	American Water Works Association
CBM.....	Certified Ballast Manufacturers
CLFMI....	Chain Link Fence Manufacturers Institute
CRSI.....	Concrete Reinforcement and Steel Institute
ETL.....	Electrical Test Laboratories
EPA.....	Environmental Protection Agency
IEEE.....	Institute of Electrical and Electronics Engineers
IPCEA....	Insulated Power Cable Engineers Association
ISA.....	Instrument Society of America
ISO.....	Insurance Services Office
NACE.....	National Association of Corrosion Engineers
NEC.....	National Electrical Code
NEMA.....	National Electrical Manufacturers Association
NFPA.....	National Fire Protection Association
NFPA.....	National Forest Products Association
OSHA.....	Occupational Safety and Health Act of 1970
PCA.....	Portland Cement Association
SAE.....	Society of Automotive Engineers
SSPC.....	Society for Protective Coatings
UBC.....	Uniform Building Code, International Conference of Building Officials
ULI.....	Underwriters' Laboratories, Inc.
WCLIB....	West Coast Lumber Inspection Bureau
WCRSI....	Western Concrete Reinforcing Steel Institute

WRI..... Wire Reinforcement Institute
WWPA..... Western Wood Products Association

PART 2 – PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 COORDINATION AND MEETINGS

A. PRE-BID CONFERENCE

1. Not-Mandatory but **strongly recommended** Pre-Bid Conference for the project will be conducted by the Engineer at Company's office, follow by the site visit. The object of the Pre-Bid Conference is to acquaint bidders with existing facility and site. The conditions and requirements of the plans and specifications shall govern over any information presented at the Pre-Bid Conference, unless amended in writing by the Engineer. The property is located within the gated community; therefore, the site visit will be limited prior to construction.

B. PRE-CONSTRUCTION CONFERENCE

1. A Pre-Construction Conference shall be scheduled upon issuance of Notice of Award. The Owner, Contractor and Engineer shall be present. The sequence of work will be discussed and will be mutually agreed upon to ensure the work is accomplished and completed as stated in the Contract, and to allow for inspection and operations flexibility by Owner. A schedule of work to be accomplished and a list of labor, material and equipment rates for additional work will be established and maintained throughout the project. Contractor shall furnish resumes of all personnel assigned to project, and a complete set of approved submittal data for use by inspection personnel.
2. Where applicable, Contractor shall submit manufacturers' literature and Material Safety Data Sheets (MSDS) on all materials to be used. Contractor shall maintain copies of MSDS's at jobsite at all times.

PART 4 – MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. The work described herein will not be measured for payment.

4.2 PAYMENT

- A. The work described herein will not be paid for separately. Payment for these items will be included in the price for pay items of associated work.

END OF SECTION

SECTION 01010 WORK RESTRICTION AND SEQUENCE OF WORK

PART 1 – GENERAL

The work restrictions and sequence of work described below are requirements during construction of the Well 31 Pipeline Replacement. These requirements are applicable during all work required for the construction, testing, and operation of the project. All work shall be completed in accordance with this specification and the contract drawings and specifications.

1.1 CONSTRAINTS ON SEQUENCE AND SCHEDULING OF WORK

- A. All components of the work must be completed to ensure that the operation and control of the District's existing and proposed system components are maintained to ensure continuous operation and control of the District's existing water reservoir.
- B. Contractor shall conduct work in a manner that will not impair the operational capabilities of essential elements of the SAWCO's existing facilities or reduce the operating capacity of said facilities, unless specifically outlined in this specification.
- C. Contractor shall include costs in his bid price for compliance with the specific sequencing limitations and all the constraints, temporary facilities, and the related general factors pertaining to maintaining the full operational existing Holly Drive Reservoir, and all related systems.
- D. Prior to commencing work, Contractor shall submit for District's approval, an overall schedule of the work to be completed. Where work involves sequencing requirements to construction of new reservoir, removal or abandonment of the existing facilities, a detailed project schedule with narrative descriptions for the proposed Sequence of Work shall be provided.
- E. Contractor shall be responsible for enforcing safety measures throughout the duration of construction and shall leave the site secure between work shifts.

1.2 INTERRUPTION OF EXISTING DISTRICT FACILITIES

- A. Contractor shall execute the work while the District's existing Well 24 and 31 Site is in operation.
- B. Contractor shall not begin alterations until District's written permission has been received.
- C. Isolation of individual facilities will require valve closures and draining of existing pipe. All valves shall be operated by District's staff or at the direction of District staff.

1.3 OPERATIONS AND MAINTENANCE ACCESS

- A. Contractor shall provide safe, continuous access to all existing facilities, pipelines, valves and appurtenances for District staff.

1.4 UTILITIES

- A. Maintain in service all electrical, telephone, water, gas, and other utilities within the project area. Provide temporary utilities when necessary.
- B. Contractor shall provide advance notice to and utilize the services of Underground Services Alert (USA) for location and marking of underground utilities operated by utility agencies other than the District. Contractor shall call 811 for marking of all underground utilities.
- C. Provide a minimum of 72 hours advance notice to District's Inspector for marking/locating District's underground facilities as specified in SP, Section 2.02.

1.5 GENERAL REQUIREMENTS

- A. The work sequence and restrictions presented herein do not include all items affecting completion of the work but are intended to describe some of the critical events necessary to minimize disruption of the existing facilities and to ensure compliance with project requirements. It is Contractor's responsibility to identify any additional constraints for completion of the work and keep the existing systems and facilities fully operational at all times.
- B. Contractor shall comply with shutdown constraints to keep the existing facilities operational as required by the District.
- C. Prior to beginning construction, Contractor shall excavate, expose, and determine ("pothole") the exact size, elevation, and horizontal location of each and every potential interference, including, but not limited to, all facilities specifically shown (location and/or depth) on the Drawings. In addition, Contractor shall field verify all locations and dimensions at connections with existing piping systems. If necessary, Contractor shall revise the plans or dimensions in order to meet the tie-in time constraint without violating the intent of the design. All Contractor revisions shall be approved by the District prior to any work.
- D. Contractor shall complete all possible portions of new construction and/or modifications to existing facilities, prior to making any connection to existing facilities. All parts, fabrications, and other components necessary to complete the work during the shutdown and startup must be at the job site prior to final scheduling of the shutdown unless otherwise authorized herein or by District.
- E. Contractor shall be responsible for all dewatering, evacuation of all fluids and gases from the existing facilities, proposed work area, nuisance water in excavations for pipelines and abandonments, and all other work associated with making connections to the existing facilities with the specified shutdown limitations.
- F. Contractor shall mark-up red-lined as-built notes on the drawings to identify any corrections or additions to the plans as a result of this work.

1.6 WORK SEQUENCE

In accordance with the operational limitations of the existing systems, the following sections describe work restrictions and sequencing constraints.

A. General Requirements

1. Existing Well 24 and 31 Site must remain in service until the construction of new Well 31 Pipeline, valving, and all appurtenances are complete and operational.
2. Notification to SAWCO Administrator, or designee, shall be **48 hours** prior to start of construction.
3. All temporary and permanent piping shall be assembled in advance, prior to commencing shutdown work, unless otherwise noted. Locate temporary facilities in a manner that minimizes interference to District's operation and maintenance personnel.
4. When required, the District will isolate existing reservoir and supply water mains. This is not anticipated to happen prior to completion, testing and disinfection of the new Reservoir and all appurtenances. All work shall be coordinated with the SAWCO.

B. Detailed Sequence of Work

An anticipated construction sequence for this portion of work is presented below and shown on the drawings. The Contractor may submit to the District an alternate sequence for approval. The District reserves the right to reject the proposed alternate construction sequence. The construction sequence is generally anticipated to be completed in steps described as follows:

1. Pothole existing utilities.
2. Construction of new Well 31 Pipeline and all appurtenances.
3. Installation of temporary piping, valves, and appurtenances required to conduct field testing and disinfection.
4. Testing disinfection of new facility. The testing and disinfection shall be closely coordinated with the District.
5. Completion of all site improvements, including precise grading, curb return, paving, clean-up, and final punch list items.

PART 2 – EXECUTION

2.01 COORDINATION OF WORK

- A. Contractor shall maintain overall coordination of work execution.
- B. Contractor shall obtain schedules from subcontractors and suppliers and assume responsibility for correctness.
- C. Contractor shall incorporate schedules from subcontractors and suppliers into Progress Schedule to plan for and comply with work, sequencing, and shutdown constraints.
- D. Work by others: Where proper execution of the work depends upon work by others, inspect and promptly report discrepancies and defects.

PART 3 – MEASUREMENT AND PAYMENT

3.1 MEASUREMENT

- A. The work described herein will not be measured for payment.

3.2 PAYMENT

- A. The work described herein will not be paid for separately. Payment for these items will be included in the price for pay items of associated work.

END OF SECTION

SECTION 01300 SUBMITTALS

PART 1 - GENERAL

1.1 SHOP DRAWINGS

- A. The CONTRACTOR shall promptly supply to the ENGINEER for approval, shop drawings with details and schedules for all items contained in the list of required Shop Drawings included at the end of this Section, or for other items as may be required by the ENGINEER.
- B. Six (6) copies of all drawings, schedules and brochures shall be submitted for approval, unless otherwise stated. Black line prints, blue line prints or reproducible transparencies are required. Blueprints (white lines on a blue background) are not acceptable. Each submittal shall have the job name on it and the appropriate specification section or contract drawing reference.
- C. The CONTRACTOR shall identify and bring to the attention of the ENGINEER any deviations to the Contract Documents contained in the submittal. For shop drawings being resubmitted the CONTRACTOR shall identify and bring to the attention of the ENGINEER any revisions other than those originally requested by the ENGINEER.
- D. Allow not less than 14 calendar days for review and response to submittals. Review may be delayed if contingent on receipt of other submittals. Upon timely written request by contractor, the Engineer will make reasonable efforts to shorten review periods which may fall on Contractor's critical path.
- E. It is emphasized that the ENGINEER'S approval of CONTRACTOR'S submitted data is for general conformance to the Contract Drawings and Specifications, but subject to the detailed requirements of Drawings and Specifications. Although the ENGINEER may check submitted data in more or less detail, such checking is an effort to discover errors and omissions in CONTRACTOR'S drawings and to assist the CONTRACTOR in coordinating and expediting his work, and shall in no way relieve the CONTRACTOR of his responsibility to engineer the details of the Work in such manner that the purpose and intent of the Contract will be achieved, nor shall such detail check by the ENGINEER be construed as placing on the ENGINEER, any responsibility for the accuracy, and for proper fit, functioning and performance of any phase of the Work included under this Contract.

1.2 SAMPLES

- A. When required by the ENGINEER or where noted in other Sections of these specifications, samples or materials shall be submitted for approval.
- B. Submit samples to illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
- C. Submit samples of finishes from the full range of manufacturer's standard colors, textures, and patterns for ENGINEER'S selection.

- D. Include identification on each sample, with full project information.
- E. Submit the number or samples specified in individual specification sections; one of which will be retained by ENGINEER.
- F. Reviewed samples, which may be used in the Work, are indicated in individual specification sections.

1.3 RECORD DRAWINGS

- A. The Contractor shall keep and maintain, at the Site, one record set of Drawings. On these, it shall mark all project conditions, locations, configurations, and any other changes or deviations which may vary from the information represented on the original Contract Drawings, including buried or concealed construction and utility features which are revealed during the course of construction. Special attention shall be given to recording the horizontal and vertical location of all buried utilities that differ from the locations indicated, or which were not indicated on the Contract Drawings. Said record drawings shall be supplemented by any detailed sketches as necessary or directed to indicate, fully, the Work as actually constructed.
- B. The Record drawings shall be accessible to the Engineer at all times during the construction period.
- C. Final payment will not be acted upon until the Record drawings have been prepared and delivered to the Engineer.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

PART 4 – MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. The work described herein will not be measured for payment.

4.2 PAYMENT

- A. The work described herein will not be paid for separately. Payment for these items will be included in the price for pay items of associated work.

END OF SECTION

SECTION 02100 SITE PREPARATION

PART 1 – GENERAL

1.1 DESCRIPTION

- A. This Section describes the work necessary during the CONTRACTOR'S initial move onto the Site to protect existing fences, pavement, potable water reservoir, water pipeline, valves, any other water accessories, walls, storm water drainage patterns, and associated improvements, private properties, and streets from damage due to trees or other objects dislodged during the construction process, clearing, grubbing and stripping.
- B. The Contractor shall provide all labor, material, tools, equipment necessary to perform all construction layout, control and reference staking for satisfactory completion of the project.

1.2 RELATED SECTIONS

- A. Section 01000 – SUMMARY OF WORK
- B. Section 02200 – EARTHWORK
- C. Section 3300 – CAST-IN-PLACE CONCRETE

1.3 SITE INSPECTION

- A. Prior to moving onto the Site, the CONTRACTOR shall inspect the Site conditions and review maps of the Site and off-site pipeline routes and facilities delineating the OWNER's property and right-of-way lines.

PART 2 – PRODUCTS

2.1 MATERIALS

- A. Hubs shall be 1½ inch x 1½ inch x 16-inch oak and witness stakes shall be 1-inch x 1-inch x 36-inch oak or other hardwood.

PART 3 - EXECUTION

3.1 PRIMARY SITE ACCESS

- A. The CONTRACTOR shall develop any necessary access to the Site, including access barriers to prohibit entry of unauthorized persons.
- B. Utility Interference: Where existing utilities interfere with the Work, notify the utility owner and the ENGINEER before proceeding in accordance with the General Conditions.

3.2 CLEARING, GRUBBING AND STRIPPING

- A. Construction areas shall be cleared of grass and weeds to at least a depth of six inches and cleared of structures, pavement, concrete or masonry debris, trees, logs upturned

stumps, loose boulders, and any other objectionable material of any kind which would interfere with the performance or completion of the WORK, create a hazard to safety, or impair the subsequent usefulness of the WORK, or obstruct its operation. Loose boulders shall be removed from the Site. Trees and other natural vegetation outside the actual lines of construction shall be protected from damage during construction as directed by the ENGINEER.

- B. Within the limits of clearing, the areas below the natural ground surface shall be grubbed to a depth necessary to remove all stumps, roots, buried logs, and all other objectionable material. Any debris or waste shall be removed if found on the Site. All objectionable material from the clearing and grubbing process shall be removed from the Site and wasted in approved safe locations.
- C. Unless otherwise indicated, native trees larger than three inches in diameter at the base shall not be removed without the ENGINEER'S approval. The removal of any trees, shrubs, fences, or other improvements outside of rights-of-way, if necessary, for the CONTRACTOR'S choice of means and methods, shall be arranged with the owner of the property, and shall be removed and replaced, at no additional cost to the OWNER.

3.3 OVEREXCAVATION, REGRADING AND BACKFILL UNDER RESERVOIR

- A. After the designated areas have been cleared and grubbed, the designated areas will require over excavation, regrading and backfill, consisting of the removal and/or stockpiling of undesirable soils. The ground surface shall be re-contoured for keying the fill and removing severe or abrupt changes in the topography of the Site. Over-excavation and backfill shall be accomplished in accordance to the geotechnical investigation report in Appendix A.

3.4 CONSTRUCTION STAKING

- A. Control benchmarks and grades are identified on the plans. Subsequent control stakes as may be required shall be placed and maintained by the CONTRACTOR. Benchmarks, monuments and other permanent reference points, if unnecessarily disturbed or destroyed, will be restored by the OWNER at the CONTRACTOR'S expense.
- B. Hubs with tacks shall be used for all control points, centerline or baseline offsets and structure stakeout and shall be accompanied by witness stakes marked with the pertinent information. For supplemental stakeout only, witness stakes alone may be used. For laser grade control and the verification of the laser elevation a hub with witness shall be provided.
- C. If impacted during construction activities, each removed marker shall be re-established by the CONTRACTOR'S surveyor.

PART 4 – MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. The work described herein will be measured for payment as Lump Sum item.

4.2 PAYMENT

- A. Payments for these items will be paid at the contract lump sum price stated in the Schedule of Pay Items. Payments shall constitute full compensation for all materials, equipment and incidentals to satisfactory complete the work.

END OF SECTION

SECTION 02200 EARTHWORK

PART 1 – GENERAL

1.1 DESCRIPTION

- A. Earthwork describes the work including loosening, removing, loading, transporting, depositing and compacting in its final location of all materials, wet and dry, as required for purposes of construction of all Work shown; the furnishing, placing and removing of all sheeting and bracing necessary to safely support the sides of the excavations; all pumping, ditching, draining and other required measures for the removal or exclusion of water; the supporting of structures above and below the ground; all backfilling around structures and all backfilling of trenches and pits; the disposal of excess excavated materials, and all other incidental earthwork as shown.

1.2 RELATED SECTIONS

- A. Section 01000 – SUMMARY OF WORK
- B. Section 01300 – SUBMITTALS
- C. Section 02100 – SITE PREPARATION

1.3 REFERENCES

- A. The geotechnical investigation reports prepared for this project are made as part of the project specifications. Appendix A contains certain portions of the geotechnical study for reference. The Contractor shall be familiar with these recommendations and complete the work in accordance with these recommendations.
- B. ASTM C136 Sieve Analysis of fine and Coarse Aggregates
- C. ASTM D1556 Density and Unit Weight of Soil in Place by the Sand Cone Method
- D. ASTM D1557 Laboratory Compaction Characteristics of Soil Using Modified Effort
- E. ASTM D2922 Density of Soil and Soil Aggregate in Place by Nuclear Methods (Shallow Depth)
- F. ASTM D4253 Maximum Index Density and Unit Weight of Soils Using Vibratory Table
- G. ASTM D4254 Maximum Index Density and Unit Weight of Soils and Calculation of Relative Density
- H. Caltrans Test Method 216
- I. Caltrans Test Method 217 Sand equivalence

1.4 SUBMITTALS

- A. The CONTRACTOR shall submit a copy of the excavation permit issued by the California Department of Industrial Safety.
- B. A detailed plan for design of shoring, bracing, sloping or other excavation shall be submitted a minimum of 5 days before CONTRACTOR begins excavation.
- C. The CONTRACTOR shall submit samples of all materials proposed to be used in the work in accordance with the requirements in Section 01300, SUBMITTALS.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. GENERAL: Fill, backfill and embankment materials shall be selected or processed clean, fine earth, rock, or sand, free from grass, roots, brush, other vegetation or miscellaneous inorganic debris and inert rubble.
- B. Fill and backfill materials shall be free of rocks or unbroken masses of earth materials having a maximum dimension larger than 3 inches.
- C. Fill material shall have an Expansion Index (EI) less than 20.
- D. Suitable Materials: Materials not defined as unsuitable below are defined as suitable materials and may be used in fills, backfilling, and embankment construction subject to the indicated limitations. In addition, when acceptable to the ENGINEER, some of the material listed as unsuitable may be used when thoroughly mixed with suitable material to form a stable composite.
- E. Suitable materials may be obtained from on-site excavations, may be processed on-site materials, or may be imported. If imported materials are required by this Section or to meet the quantity requirements of the project, the CONTRACTOR shall provide the imported materials at no additional expense to the OWNER, unless a unit price item is included for imported materials in the bidding schedule.
- F. The following soil and backfill materials shall be defined and specified:
 - 1. Pipe Zone Material - Material from below pipe to less than 12 inches above top of pipe shall be sand or gravel in compliance with ASTM D1557 minimum sand equivalence of 30 material free from shale, sod, stones and clods over 2 inches in diameter, roots, trash, organic material and other debris.
 - 2. Trench Zone Material – Material in pipe trench above pipe zone and below street zone shall be suitable soil material in compliance with ASTM D1557.
 - 3. Surface Zone Material – Material in upper 12 inches of trench to finish surface in unimproved or landscaped areas shall be suitable topsoil in compliance with ASTM D1557.
 - 4. No material greater than two inches in any dimension shall be placed within one foot of any pipe, valve or structure.
 - 5. All backfill within 24-inches of ductile-iron fittings or valves shall be clean, washed sand.

2.2 UNSUITABLE MATERIAL

- A. Soils which cannot be compacted sufficiently to achieve the density specified for the intended use.
- B. Rocks larger than three (3) inches in the largest dimension shall not be placed within the

fill. Rocks larger than one (1) inch shall not be placed within the upper 12 inches of subgrade soils.

- C. Materials that contain hazardous or designated waste materials including petroleum hydrocarbons, pesticides, heavy metals, and any material which may be classified as hazardous or toxic according to applicable regulations.
- D. Soils that contain greater concentrations of chloride or sulfate ions, or have a soil resistivity or pH less than the existing on-site soils.
- E. When material for the excavation is unsuitable for use in backfill, it shall be disposed of off-site and suitable material that is capable of being compacted to the required relative density shall be arranged for and furnished by the Contractor at his expense.

PART 3 - EXECUTION

3.1 EXCAVATION – GENERAL

- A. The existence and location of existing underground facilities shown on the plans were obtained by a search of the available records. To the best of our knowledge, no other facilities exist except as shown on the plans. The possibility exists of pipe and other underground improvements which may or may not be shown on the plans. Preserve and protect any such improvements whether shown or not. Where necessary to remove and replace or to relocate such improvements in order to prosecute the Work, they shall be removed, maintained and permanently replaced by the Contractor at his expense, except as otherwise provided in the Contract documents.
- B. Control grading to prevent water running into excavations. Do not obstruct surface drainage. Provide swales, gutters temporary drains or other means of channeling flow without interruption around excavation.
- C. Preserve existing drainage patterns except as otherwise shown. Where construction methods cause temporary obstruction of drainage patterns, provide temporary facilities adequate for expected flows and a means of emergency removal of the obstruction.
- D. Provide and maintain ample means and devices and promptly remove and properly dispose of all water from any source entering the excavation or other parts of work. Dewatering methods shall ensure preservation of final lines and grades of bottoms of excavations. Said methods may include well points, sump points, suitable rock or gravel placed below required bedding for drainage and pumping purposes, temporary pipelines, and other means that will not be detrimental to the proposed construction. Contractor is responsible for obtaining all water discharge permits required.
- E. Contractor must stay in compliance with Section SC-8 (Sandbag Barrier) STORMWATER POLLUTION PREVENTION PLAN (SWPPP) and/or San Bernardino County applicable BMPs for the discharge of storm water associated with construction activities.
- F. Do not place concrete footings in water. Do not allow water to rise over Work until concrete or mortar has set at least eight hours.

- G. During excavation, place the excavated material only within the working area. Do not obstruct any roadways or access ways.

3.2 SITE EXCAVATION

- A. Stripping: Strip all vegetation such as roots, brush, heavy sods, heavy growth or grass and all decayed vegetable matter, rubbish and other unsuitable materials within area of Work prior to starting excavation or embankment. Trees and other natural growths outside the actual lines of construction operations shall not be destroyed and such measures as are necessary shall be taken by the Contractor, at his own expense, for the protection thereof.
- B. After stripping, excavation of whatever substances are encountered within grading limits of the Work shall be carried to lines and grades shown. All suitable excavated material shall be used to meet embankment and backfill requirements of Work. Material in excess or not suitable for embankment or backfill shall be disposed of as specified herein.
- C. Areas to receive embankment or fill shall be benched, if sloping, and scarified to a depth of 6-inches, then compacted as required to complete the project or to at least 90 percent of the laboratory maximum dry density. All fill should be compacted at moisture content within three (3) percent of optimum moisture content. Do not deposit unsuitable material in fill areas where compaction is required.
- D. Finish: All areas covered by the Work, including excavated and filled sections and transition areas, shall be uniformly graded to elevations shown. Finished surface shall be reasonably smooth, compacted, and free from irregular surface changes. Round edges of spoil and borrow areas to blend into natural contours. The degree of finish ordinarily obtainable from a blade grader will be satisfactory for open areas, but hand grading and raking will be required around structures and walkways. Finished surface shall be not more than 0.1 foot above or below established grade and sloped to prevent ponding.

3.3 STRUCTURAL EXCAVATION

- a. Structure excavation shall conform to these Specifications and to Section 300-3, "Structure Excavation and Backfill," of the Standard Specifications.
- b. Provide excavation of whatever nature is required for construction of the work. Refer to the referenced soil reports for difficulties which may be encountered during excavation.
- c. All existing colluvial material and/or undocumented fill shall be removed under each structure. The soils investigation indicates the depth of these soils to be six to eight feet below the ground surface.
- d. Excavate and remove unacceptable earth materials encountered within areas scheduled for subgrade construction. Unacceptable materials include, but are not limited to cobbles greater than 6 inches in diameter, trash, vegetation, debris, undocumented fill and colluvial materials.

- e. Over-excavation under each structure shall be to the following limits, whichever is greater:
 - 1. Removal of all colluvial material and/or undocumented fill.
 - 2. A minimum of three feet below the bottom of the structure's footing.
 - 3. To a minimum five feet laterally beyond the structure outline.
- f. When excavating for footings, take care not to disturb bottom of excavation. Trim bottoms to required lines and grades to leave solid base to receive concrete.
- g. Unauthorized excavation consists of removal of materials beyond indicated subgrade elevations or dimensions without review of the Owner's Representative.
 - 1. If excavations for footings and foundations are made deeper than indicated or ordered, fill with same concrete as specified for footings at Contractor's expense.
 - 2. If excavations for slabs, curbs and gutters or flatwork are made deeper than indicated, fill to required level beneath slabs or flatwork with coarse, fresh water sand or non-expansive sandy soil. Compaction shall be at optimum moisture content to 95% density, ASTM D1557.

3.4 TRENCH EXCAVATION

- A. Alignment and Grades: Alignment and grade for pipe shall be field verified by potholing prior to preparing shop drawings or fabrication of pipe. When flow line is shown, it shall be the invert or interior bottom of pipe. When top of pipe is shown, it shall be the exterior of pipe barrel. In absence of such profile grade, pipe shall be laid on a straight grade to permit complete drainage and to provide a minimum of 36-inches of cover to finish ground or street subgrade unless otherwise shown.
- B. The Contractor shall excavate and expose buried points of connection to existing utilities where indicated on the Drawings for connections and before fabrication of pipe and the data obtained shall be used in preparing shop drawings.
- C. In accordance with Industrial Safety requirements and Green Book, the Contractor is required to obtain a permit for the excavation of trench which is five feet or more in depth and into which a person is required to descend. The Contractor shall furnish all labor, equipment and materials required to design, construct and remove all sheeting, shoring and bracing or other equivalent method of support for the walls of open excavations required for the construction of this project.
- D. Trench Width: Overall trench width measured at a level of one foot above the top of pipe shall not exceed the limits listed as follows:
 - 1. Nominal Inside Pipe Diameter of 4" to 12" – Minimum width equal to OD plus 12" and Maximum width equal to OD plus 16".
 - 2. Nominal Inside Pipe Diameter of 14" to 48" – Minimum width equals OD plus 16" and Maximum width equal to OD plus 24".

3. Excavation and trenching shall be true to line so that the pipe is centered in the trench.
- E. Grade Trench Bottom: Provide smooth, firm and stable foundation such that each pipe section will be continually in contact with the bedding along the extreme bottom of the pipe. Excavation for pipe bells and welding shall be made as required. If excessively wet, soft, spongy, unstable or similarly unsuitable material is encountered at subgrade, it shall be removed and replaced by gravel of sufficient thickness to form an unyielding foundation. The Contractor shall maintain adequate dewatering procedures to ensure that an otherwise stable foundation will not be rendered unfit due to accumulation of water in trench.
1. Should large gravel, cobbles or rock be encountered at the trench bottom or pipe subgrade, they shall be removed from beneath the pipe and replaced with granular material which shall be compacted to provide uniform support and a firm foundation.

3.5 VAULT AND CATCH BASIN EXCAVATION

- A. Vault excavation shall have a flat bottom conforming to the grade at which the existing pipe is laid. Vault bottom shall be laid upon firm soil cut true and even, so that bottom of the vault will have a bearing for its full length. Any part of the excavation cut below the needed grade by the Contractor shall be corrected with approved material and thoroughly compacted.
- B. When the bottom material uncovered is soft and in the opinion of the Engineer cannot support the vault, excavate a further depth and/or width and refill to needed elevation. Remove boulders and large stones and refill to grade with a material approved by Engineer, then thoroughly compacted.
- C. Excavation for construction shall be carried out to lines and grades shown and as required to provide working clearance and safe construction slopes and to emplace shoring, sheeting, bracing and other Work required.

3.6 BACKFILL GENERAL

- A. The fill material placed on the scarified and compacted soil should be compacted as specified and shown on the drawings for construction of the retaining wall or at least to 90 percent of laboratory maximum dry density, and the top 24 inches of the fill underlying the concrete ring foundation should be compacted to 95 percent of the laboratory maximum dry density.
- B. All fill should be compacted at moisture condition to within three (3) percent of optimum for fine-grained soils.
- C. Flooding, ponding or jetting shall not be used for fill around reservoir ring walls.
- D. Equipment weighing more than 10,000 pounds shall not be used closer to ring walls than a horizontal distance equal to the depth of the fill at that time. Hand operated power compaction equipment shall be used where use of heavier equipment is impractical or

restricted due to weight limitations.

- E. Material for mechanical compacted backfill shall be placed in lifts which shall not exceed the following depth:
 - 1. Impact, free fall or stomping equipment – maximum lift depth of 3 feet. Not permitted over rigid or cement mortar lined pipe.
 - 2. Vibratory equipment with smooth contact surface – maximum lift depth of 2 feet.
 - 3. Rolling equipment, including vibratory interrupted surface equipment – maximum 1 foot.
 - 4. Hand directed mechanical tampers – maximum lift depth of 6 inches.

3.7 TRENCH BACKFILL

- A. The pipe bedding is defined as the portion of the trench between the trench subgrade and the bottom of the pipe. After compacting the bedding, the Contractor shall perform a final trim using a stringline for establishing grade, such that each pipe section when first laid shall be continually in contact with the bedding along the extreme bottom of the pipe. Excavation for pipe bells and welding shall be made as required.
- B. After pipe has been properly laid, exterior joints grouted and inspected, backfilling shall be commenced. Compaction method or methods used shall result in obtaining the compaction of the backfill in the various specified zones and within the maximum lifts specified. Compaction methods used shall not damage pipe, adjacent ground, existing improvements or improvements installed as part of Work.
- C. If a moveable trench shield is used during excavation, pipe installation, and backfill operations, the shield shall be moved by lifting the shield free of the trench bottom or backfill and then moving the shield horizontally. The Contractor shall not drag trench shields along the trench causing damage or displacement to the trench sidewalls, the pipe or the bedding and backfill.
- D. Water settling may be used in pipe zone and trench zone in lieu of mechanical compaction, only where material being backfilled is sufficiently sandy and permeable so that specified compaction is achieved. Compaction by saturation shall be accomplished by inserting a pipe, through which water is being supplied under pressure, to the bottom of the lift of material to be consolidated, and applying to each square yard or lesser surface area in this manner sufficient water to completely saturate the backfill, there over and cause obvious settlement.
 - 1. Vibrating compacting equipment may be necessary to supplement water saturation process where required densities cannot be attained by saturation alone.
 - 2. If water does not readily drain from trench, it shall be removed by sump pump.
- E. Trench Backfill by Zones: Backfill shall be constructed by zones, regardless of compaction method used. The compaction requirements for each zone shall be as

follows, unless otherwise specified.

1. **Pipe Zone Backfill:** Backfill from below pipe to less than 12 inches above top of pipe. The pipe shall be backfilled with the specified material per Section 2.1 E. to 90% compaction. The Contractor shall exercise care to prevent damage to the pipeline coating, cathodic bonds and the pipe itself during the installation and backfill operations. Backfill shall be placed in layers simultaneously on each side of the pipe for full trench width. In placing and compacting backfill give particular attention to underside of pipe and fittings to provide firm support along full pipe length.
2. **Trench Zone Backfill:** Backfill in pipe trench above pipe zone and below Surface Zone. The zone shall be backfilled with the specified material per Section 2.1 E. to 90% compaction. Backfill may be either mechanical compaction or water settling, based on characteristics of material.
3. **Surface Zone Backfill:** Upper 12 inches of trench to finish surface. Zone shall be backfilled with the specified material per Section 2.1 E. If finish surface is in unimproved or landscape area, 80% compaction is sufficient. If finish surface is within travel way compaction shall be 90%. If finish surface is to be paved, compaction shall be 95%.

3.8 COMPACTION

- A. **Degree of Compaction.** The ratio, expressed as a percentage, of the in-place dry density of the compacted fill material to the maximum dry density of the same material as determined by ASTM Test Designation D1557.
- B. **Methods.** Fill material shall be compacted by mechanical means only in uniform lifts not exceeding 8 inches in un-compacted thickness. The moisture content of fill material at time of compaction shall be within 2 percent of laboratory optimum. Each lift shall be thoroughly mixed before compaction to insure uniform distribution of moisture.
- C. **Compaction Limits.**
 1. Earth fill including the foundation fill beneath the reservoir or utility vaults shall be compacted to a minimum degree of compaction of 95 percent as determined by ASTM Test Designation D1557. Field density tests shall be performed in accordance with either ASTM Test Designation D1556-82 (Sand-Cone Method) or ASTM Test Designation D2922-81 and D3017-78 (Nuclear Probe Method). The locations and number of field density tests shall be determined by the District. The results of these tests and compliance with these specifications shall be the basis upon which satisfactory completion of work shall be judged by the District. See the geotechnical report in Appendix A.
 2. Areas under asphalt paving shall be scarified to a depth of 12", worked to a finely divided condition with all rocks larger than 3" removed and

moisture conditioned and compacted to 95 percent of optimum as determined by ASTM Test Designation D1557.

3.9 FIELD TESTING

- A. Compaction testing method for pipelines shall be per the Standard Specifications. Compaction testing method for structural foundation shall be per the five (5) layer test ASTM Standard D-1557 of the latest edition. Compaction test will be performed by the Owner as required. The Contractor shall pay all costs for any retesting of work not conforming to the Specifications and the Contract Drawings.

PART 4 – MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. The work described herein will be measured for payment as Lump Sum item.

4.2 PAYMENT

- A. Payments for these items will be paid at the contract lump sum price stated in the Schedule of Pay Items. Payments shall constitute full compensation for all materials, equipment and incidentals to satisfactory complete the work.

END OF SECTION

**SECTION 02513
ASPHALT CONCRETE PAVING**

PART 1 – GENERAL

1.1 DESCRIPTION

- A. This Section includes materials, testing, and installation of asphalt concrete pavement, aggregate base course, and prime, tack, and seal coats.

1.2 RELATED SECTIONS

- A. Section 01000 – SUMMARY OF WORK
- B. Section 02200 – EARTHWORK
- C. Section 3 of Special Provisions – ASPHALT PAVING

1.3 REFERENCED STANDARDS

- A. Standard Specifications for Public Works Construction, Latest Edition (“Standard Specifications”).

1.4 SUBMITTALS

- A. Submit three copies of a report from a testing laboratory verifying that aggregate material contains less than 1% asbestos by weight or volume and conforms to the specified gradations or characteristics. Submit batch test prior to permanent paving.

1.5 TESTING FOR COMPACTION

The Owner will test for compaction as described herein and in Section 02200, Earthwork.

PART 2 - MATERIALS

2.1 ASPHALT CONCRETE PAVING

Asphalt concrete paving shall conform to III-C2-AR-4000 as listed in Section 400-4 of the Standard Specifications for Public Work Construction (Standard Specifications).

2.2 AGGREGATE BASE COURSE

Aggregate base shall be crushed aggregate base as specified in Section 400-2 of the Standard Specifications. Aggregate shall contain less than 1% asbestos by weight or volume.

2.3 PRIME COAT

Apply prime coat to all areas to be paved. Prime coat shall be slow curing (SC-70) in accordance with Section 203-2 of the Standard Specifications.

2.4 TACK COAT

Tack coat shall conform to Section 302-5.4 of the Standard Specifications and shall be either AR 1000 paving asphalt or Grade SS-1h emulsified asphalt.

2.5 ASPHALT

Asphalt shall be viscosity grade AR 4000 or AR 8000. Asphalt content in the pavement shall be 5.5% to 6.0%.

2.6 AGGREGATE FOR ASPHALT CONCRETE

Aggregate shall be in accordance with Sections 400-1.1 and 400-1.2 of the Standard Specifications. Aggregate shall contain less than 1% asbestos by weight or volume.

2.7 SLURRY SEAL COAT

Seal slurry shall be Type II slurry seal per Section 37 of the State Specifications or Emulsion Aggregate Slurry with Type II grade aggregate per Section 203-5 of the Standard Specifications.

PART 3 - EXECUTION

3.1 PAVEMENT REMOVAL

- A. Initially cut asphalt concrete pavement with pneumatic pavement cutter or other equipment at the limits of the excavation and remove the pavement. After backfilling the excavation, saw cut asphalt concrete pavement to a minimum depth of eight inches at a point not less than twelve inches outside the limits of the excavation or the previous pavement cut, whichever is greater, and remove the additional pavement.
- B. Make arrangements for and dispose of the removed pavement.
- C. Final pavement saw cuts will be straight along both sides of trenches, parallel to the pipeline alignment or perpendicular to same, parallel to vault sides, and provide clean, solid, vertical faces free from loose material. Saw cut and remove damaged or disturbed adjoining pavement.

3.2 PAVEMENT REPLACEMENT

- A. The final asphalt surface course shall be two inches thick with total asphalt thickness of six inches.

3.3 INSTALLATION

Producing, hauling, placing, compacting and finishing of asphalt concrete shall conform to Section 302-5 of the Standard Specifications. Apply seal coat to all paving except open asphalt concrete.

3.4 PREPARATION OF SUBGRADE

- A. Excavate and shape subgrade to line, grade, and cross-section to twelve inches below top of pavement.
- B. Compact the top six inches of subgrade to 90% relative compaction.
- C. The finished subgrade shall be within a tolerance of ± 0.08 of a foot of the grade and shall be smooth and free from irregularities and at the specified relative compaction.

3.5 PLACING PRIME COAT

Apply prime coat to the surface of the leveling course of aggregate base at the rate of 0.25 gallon per square yard per Section 302-5.3 of the Standard Specifications.

3.6 PLACING TACK COAT

Apply tack coat on surfaces to receive finish pavement per Section 302-5.4 of the Standard Specifications. Apply tack coat to metal or concrete surfaces that will be in contact with the asphalt concrete paving.

3.7 PLACING ASPHALT PAVING

Place asphalt paving to a minimum thickness of six inches. Install in accordance with Section 302-5 of the Standard Specifications.

3.8 COMPACTION OF ASPHALT CONCRETE PAVING

Compact until roller marks are eliminated and a density of 92% minimum to 98% maximum has been attained per ASTM D 2041.

3.9 APPLYING SLURRY SEAL COAT

After final paving, apply slurry seal coat at the rate of 10 to 18 pounds of dry aggregate per square yard to the repaved section and to any area damaged by the Contractor during construction.

3.10 SURFACE TOLERANCE

After paving has been installed and compacted, spray water over the entire paved area. Correct any areas where water collects and does not drain away.

3.11 PROTECTION

Immediately after placement, protect pavement from mechanical injury for two days.

PART 4 – MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. The work described herein will be measured for payment as a Lump Sum Item.

4.2 PAYMENT

- A. Payments for these items will be paid at the contract lump sum price stated in the Schedule of Pay Items. Payments shall constitute full compensation for all materials, equipment and incidentals to satisfactory complete the work.

END OF SECTION

SECTION 3100 - CONCRETE FORMWORK

PART 1 - GENERAL

1.1 SCOPE

- A. The work includes the furnishing and installing and removing of forms for all cast-in-place concrete work as shown and noted on the plans and specified herein.

1.2 CODES AND STANDARDS

- A. The American Concrete Institute's "Recommended Practice for Concrete Formwork", ACI 347, and the Uniform Building Code, Section 2606, are hereby made a direct part of this specification, and all concrete formwork included in this contract shall conform with the applicable requirements therein except as specified otherwise herein.

1.3 RELATED WORK

- A. Section 01000: SUMMARY OF WORK
- B. Section 03200: CONCRETE REINFORCEMENT
- C. Section 03300: CAST-IN-PLACE CONCRETE
- D. Section 13656: NEW BOLTED STEEL TANK

1.4 QUALITY ASSURANCE

- A. Design of structures shown on drawings includes no allowance for imposed construction loads. Provide forms, shoring and falsework adequate for dead loads and live loads plus imposed loads during construction.
- B. It shall be the Contractor's responsibility to design, construct and maintain safe forms, shoring and falsework at all times in accordance with applicable OSHA regulations.
- C. Tolerances of formwork shall comply with ACI 117. Failure of finished concrete work to meet specified tolerances shall be remedied at Contractor's expense.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Boards for unexposed concrete, not otherwise scheduled or specified, shall be Douglas Fir, conforming to the "Standard Grading and Dressing Rules No. 16", most current edition, of the West Coast Lumber Inspection Bureau. Boards shall be S4S. Contractor at his option, may use plywood for forms in lieu of boards. Plywood, if used shall be "B-B Plyform Class I Exterior" grade, conforming to U.S. Products Standard PS 1, 5/8" minimum thickness. Plywood used for exposed concrete shall be a high density overlay type especially manufactured for form work.

- B. FORM TIES AND SPREADERS: Standard metal form clamp assembly, of type acting as spreaders and leaving no metal within 2" of concrete face. Inner tie rod shall be left in concrete when forms are removed. Submit samples and manufacturer's specifications to Engineer for review and approval of District before using. Wood spreaders will not be permitted.
- C. FORM COATING: Nongrain raising and nonstaining type that will not leave residual matter on surface of concrete or adversely affect proper bonding of subsequent application of other material applied to concrete surface. Coatings containing mineral oils or other nondrying ingredients are not permitted.

PART 3 - EXECUTION

3.1 CONSTRUCTION

- A. Earth Forms: Construct wood edge strips at each side of trench at top to secure reinforcing and prevent trench from sloughing. Form sides of footings where earth sloughs. Earth forms shall be tamped firm and cleaned of all debris and loose material before depositing concrete.
- B. Formwork – General: The engineering and construction of all formwork, shoring and bracing shall be carried out by and under the direction of the Contractor, who shall be responsible for the engineering, construction, maintenance, and safety of all formwork during the entire construction period.
- C. The formwork shall be designed for the loads and lateral pressures outlined in Part 3, Section 102, of ACI 347.
- D. Wood forms shall be constructed of sound material, shall be of the correct shape and dimensions, mortar tight, and of sufficient strength, and so braced and tied together that the movement of men, equipment, materials, or placing and vibrating the concrete will not distort the forms from their design shape under all imposed loads. The form shall be so constructed that they may be easily removed without damage to the concrete. Before concrete is placed in any form, the horizontal and vertical positions of the form shall be carefully verified and all inaccuracies corrected. All wedging and bracing shall be completed in advance of placing of concrete.
- E. Framing and Bracing: Framing bracing, supporting members, and centering shall be of ample size and strength to safely carry, without deflection, all dead and live loads to which forms may be subjected, and shall be spaced sufficiently close to prevent any bulging or sagging of forms. Concrete out of line, level, or plumb will be cause for rejection of the whole work affected.
- F. Tolerances: Variation from plumb in lines, surfaces and arises shall not exceed 1/8" in 10 feet.
- G. Chamfered Corners: All exposed corners shall be chamfered 3/4", unless shown otherwise on plans. Provide molding in forms for all chamfering required.

- H. Form Ties: Form ties shall be of sufficient strength and used in sufficient quantities to prevent spreading of the forms. Ties shall be placed at least 2" away from the finished surface of the concrete.
- I. Arrangement: Arrange formwork to allow proper erection sequence and to permit form removal without damage to concrete.
- J. Embedded Items: Provisions shall be made for pipes, sleeves, anchors, inserts, reglets, anchor slots, nailers, and other features. No wood other than necessary nailing blocks shall be imbedded in concrete. Complete cooperation shall be extended to suppliers of imbedded items from other trades as required. All imbedded items shall be securely anchored in correct location and alignment prior to placing concrete. All imbedded items shall be subject to Engineer's review, inspection and approval.
- K. Coating of Forms: Thoroughly clean forms and coat with specified form coating before each use. Do not reuse any form for exposed work which cannot be reconditioned to "like new" condition. Apply form coating to all forms before placing reinforcing steel.
- L. Inspection: Prior to placing of any concrete, and after placement of reinforcing steel in the forms, contractor shall notify Owner so that proper inspection may be made. Such notification shall be made at least 24 hours in advance of placing concrete to permit proper arrangements to be made for inspection.
- M. Rejection of Defective Work Due to Improper Forms: Any movement or bellying of forms during construction or variations in excess of the tolerances specified will be considered just cause for the removal of such forms and, in addition, the concrete work so affected. Reconstruction of forms and new concrete (including disposal of rejected materials) shall be furnished at no additional cost to the Owner.

3.2 REMOVAL OF FORMS

- A. The minimum time for forms and shoring to remain in place for slabs on grade and sides of footings shall be 24 hours.
- B. During the period that forms are in place on the concrete work, said forms shall be kept wet at all times.
- C. Re-use of Forms: Clean and recondition form material before each re-use. Unsatisfactory material shall be rejected and removed from the site.

PART 4 – MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. The work described herein will not be measured for payment.

4.2 PAYMENT

- A. The work described herein will not be paid for separately. Payment for these items will be included in the price for pay items of associated work.

END OF SECTION

SECTION 3200 - CONCRETE REINFORCEMENT

PART 1 - GENERAL

1.1 SCOPE

- A. The work includes the furnishing and installing of reinforcing steel for all cast-in-place concrete. Contractor shall check project or drawings for anchors, inserts, conduits, sleeves, and any other items which are required to be cast in concrete, and shall make necessary provisions as required so that reinforcing steel will not interfere with the placement of such embedded items.

1.2 CODES AND STANDARDS

- A. Except as modified by the requirements specified herein and/or the details on the drawings, all work included in this section shall conform to the applicable provisions of the following codes and standards:
 - 1. "California Building Code": 2007 Edition, Chapter 19, Concrete as adopted by City of Riverside.
 - 2. Concrete Reinforcing Steel Institute (CRSI): "Recommended Practice for Placing Reinforcing Bars", latest edition.
 - 3. American Concrete Institute (ACI): "Manual of Standard Practice for Detailing Reinforced Concrete Structures", ACI 315, latest edition.
 - 4. American Society for Testing and Materials (ASTM): The Specifications and standards hereinafter referred to, latest edition.

1.3 RELATED WORK

- A. Section 01000: SUMMARY OF WORK
- B. Section 03100: CONCRETE FORMWORK
- C. Section 03300: CAST-IN-PLACE CONCRETE
- D. Section 13656: NEW BOLTED STEEL TANK

1.4 SUBMITTALS

- A. Mill affidavits, stating the grades and physical and chemical properties of the reinforcing steel, and conformance with ASTM Specifications, shall be submitted to the Engineer for review and approval by Owner before delivery of the steel to the job site.
- B. Shop bending diagrams, placing lists and drawings of reinforcing steel shall be submitted to the Engineer, including actual bar lengths to nearest inch measured to intersection of tangent extensions of the outside bar surface. Bar placement diagrams shall clearly show dimensions of each bar splice.
- C. Engineer's review shall be general and approval will not relieve Contractor of responsibility for accuracy.

1.5 STORAGE

- A. Reinforcing steel shall be transported to the building site, stored and covered in a manner which will insure that no damage shall occur to it from moisture, dirt, grease, or any other cause that might impair bond to concrete.
- B. A sufficient supply of approved reinforcing steel shall be stored on the building site at all times to insure that there will be no delay of the work. Identification of steel shall be maintained after bundles are broken.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Reinforcing Bars: New, deformed, billet steel bars conforming to ASTM A615-82(S1) Grade 60 unless otherwise indicated. Deliver bars new and free from rust and mill scale in original bundles with mill tags intact.
- B. Accessories: Reinforcement accessories, consisting of spacers, chairs, ties, and similar items shall be provided as required for spacing, assembling, and supporting reinforcement in place. Use no aluminum, galvanized steel, plastic or stainless steel supports or accessories. Supports shall conform to the applicable requirements of the CRSI Standards Chapter 3 specified herein. Use precast concrete block supports with embedded wire ties or dowels for placement on grade or on membranes.
- C. Tie Wire: Tie wire for reinforcement shall be 16 gauge or heavier, where indicated or specified, black or galvanized steel wire, conforming to ASTM A82-79.

PART 3 - EXECUTION

3.1 FABRICATION

- A. Fabrication of steel reinforcement shall be in accordance with the details shown on the plans. Where specific details are not shown or noted, comply with the applicable requirements of the "Codes and Standards" hereinbefore specified.
- B. Bars shall be accurately bent, cut, and placed as indicated on the drawings. Bars shall be bent cold; heating of bars will not be permitted. Bars shall not be bent or straightened in any manner that will injure the material. Bars with kinks or bends not scheduled will be rejected.

3.2 PLACING

- A. General: Place reinforcing steel as indicated and in accordance with the applicable requirements of referenced specified. Install reinforcement accurately and secure against movement, particularly under the weight of workmen and placement of concrete.

1. Clean reinforcement of loose rust and mill scale, earth, and other materials which may reduce or destroy bond with concrete.
- B. Reinforcing Supports: Support reinforcing bars above earth and on forms by concrete blocks or other approved noncorrodible supports. Support legs of accessories in forms without embedding in form surface. Space chairs and accessories to conform with CRSI's "Recommended Practice for Placing Bar Supports". No wood will be permitted inside forms.
- C. Placing and Tying: Set reinforcing in place, and rigidly and securely tie or wire with 16 gauge steel tie wire in the position indicated, or as directed. Point ends of wire away from forms.
- D. Spacing: Minimum center to center distance between parallel bars shall be in accordance with the details on the plans or, where not shown, the clear spacing shall be 2 times the bar diameter but in no case less than 1-1/2" nor less than 1-1/3" times the maximum size aggregate.
- E. Splices: Laps of splices, where shown or noted on plans, shall be adequate to transfer stress by bond. Splicing shall meet requirements of ACI 318 and applicable building codes unless noted otherwise on drawings. Splices of adjacent bars shall be staggered with no more than 50% of the laps at any given joint. Reinforcing bars marked continuous shall be spliced with a minimum lap of (40) bar diameters in masonry and (30) bar diameters in concrete. Approved mechanical coupling may be used for horizontal steel.
- F. Dowels: Dowels shall be tied securely in place before concrete is deposited. In the event there are no bars in position to which dowels may be tied, No. 3 minimum shall be added to provide proper support and anchorage. Bending of dowels after placement of concrete will not be permitted.
- G. Welding of reinforcing bars is not permitted.
- H. Cleaning: Reinforcement, at time of pour, shall be free of all coatings that would impair bond to concrete.
- I. Additional Reinforcing: Provide additional reinforcing bars at sleeves and openings as indicated or required. Where additional bars are not shown for such location, obtain Engineer instructions and provide additional bars as directed; at no extra cost to the Owner.

3.3 INSPECTION

- A. Contractor shall notify Engineer at least 24 hours ahead of each concrete pour, and no concrete shall be placed until all reinforcing steel has been installed, inspected and approved by the Inspector.

- B. The following reinforcing steel work will be considered defective and shall be removed and replaced at no additional cost to the Owner.
1. Bars with kinks or bends not shown on drawings.
 2. Bars injured due to bending or straightening.
 3. Bars heated for bending.
 4. Reinforcement not placed in accordance with the plans and/or specifications.

PART 4 – MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. The work described herein will not be measured for payment.

4.2 PAYMENT

- A. The work described herein will not be paid for separately. Payment for these items will be included in the price for pay items of associated work.

END OF SECTION

SECTION 3300 - CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 SCOPE

- A. The work includes the furnishing and installing of cast-in-place concrete work as shown and noted on the drawings and specified herein.

1.2 CODES AND STANDARDS

- A. Except as modified by the requirements specified herein and/or the details on the drawings, all work included in this section shall conform to the applicable provisions of the following codes and standards:
 - 1. "California Building Code": 2007 Edition, Chapter 19, Concrete as adopted by City of Riverside.
 - 2. American Concrete Institute (ACI): "Building Code Requirements for Reinforced Concrete". ACI 318-71.
 - 3. American Society for Testing and Materials (ASTM): The specifications and standards hereinafter to, latest edition.

1.3 RELATED WORK

- A. Section 01000: SUMMARY OF WORK
- B. Section 03100: CONCRETE FORMWORK
- C. Section 03200: CONCRETE REINFORCEMENT

1.4 MIX DESIGNS

- A. Designs of concrete mixes, including recommended amounts of admixture and water to be used in the mixes, shall be obtained by the Contractor from a recognized independent testing laboratory. Costs of obtaining the mix designs shall be paid for by the Contractor. Contractor shall be responsible for incorporating into the structure, concrete of the minimum strengths specified. The contractor shall submit design for concrete for the Engineer's review. Concrete mix design shall bear the signatures and seal of a California Registered Civil Engineer.
- B. At Contractor's expense, the Testing Laboratory shall perform preliminary testing in accordance with the following requirements. Utilizing materials similar to those intended for this project, together with a minimum of three certified test reports of the 28-day strength and drying shrinkage of the proposed concrete mix. These results shall be submitted to the Engineer.
- C. In lieu of trial batch testing, Contractor may submit previously designed, tested and successfully used concrete mixes using materials similar to those intended for this project, together with a minimum of three certified test reports of 28 day strength of the proposed concrete mix.

1.5 CONCRETE STRENGTHS AND PROPORTIONS

- A. Provide concrete with the following minimum compressive strength of 4000 (Class A) at 28 days with; maximum aggregate size of 1 1/2", minimum of 6.0 sacks of cement per cubic yard and maximum slump of 3 1/2".
- B. The exact proportions of the mix, including amounts of admixture (if any) and water, shall be determined by the Testing Laboratory or Mill, based cement and aggregate submitted by the Contractor.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. PORTLAND CEMENT: ASTM C150, Type II Portland cement.
- B. FINE AGGREGATE: ASTM C33, Gradation shall be 15% to 30% passing #50 screen and 5% to 10% passing #100 screen. Fineness modulus less than 3.00.
- C. COARSE AGGREGATE: ASTM C33, Clean, hard fine-grained sound crushed rock or washed gravel from pits acceptable to Engineer. Gradation from 1/4" to maximum sizes specified.
- D. ADMIXTURE: ASTM C-494, of a type that increases workability and reduces water demand, but will not increase shrinkage. Admixture shall be submitted to Engineer for review and approval. Admixtures shall be free of chlorides or triethanolamine.
- E. WATER: Clean and potable, free of impurities detrimental to concrete.
- F. CURING-SEALER: Curing and sealing shall be one of the following acrylate resin compounds or equal.
 - 1. Aqua Resin Cure, as manufactured by Burke Concrete Accessories, San Jose California.
 - 2. Masterkure 200W, as manufactured by Master Builders Technologies, Cleveland Ohio.
- G. SHEET CURING MATERIALS: ASTM C171, waterproof paper, polyethylene film or white burlap-polyethylene sheet of 30 mils, non-staining.

PART 3 - EXECUTION

3.1 MIXING

- A. Use ready-mixed concrete mixed and delivered in accordance with the requirements of ASTM C 94 latest revision, and UBC Standard No. 26-13. In the event concrete is mixed at a central batching plant, arrange delivery so intervals between batches are kept at a minimum, and in any event not more than 30 minutes. No water shall be added during transit or at the Project site without the Inspector's approval. Place concrete within maximum transit time of 90 minutes after cement has been mixed with aggregate

and water. Trucks shall be in first-class condition and kept in constant rotation during delivery.

1. When temperature of concrete is 85 degrees F or above, reduce holding time to 45 minutes.

3.2 CONVEYING AND PLACING CONCRETE

- A. NOTIFICATION: Notify the Owner's Inspector at least two working days in advance of the placing of any concrete.
- B. FORMS: Before placing concrete, forms shall be thoroughly inspected. All wood chips, dirt, etc., shall be removed, all temporary bracing and cleats taken out, all openings for pipes, etc., properly boxed, all forms properly secured in their correct position and made tight, all reinforcement, anchors, and embedded items secured in their proper places. Concrete which may be on the forms or reinforcement and which is set and dry shall be cleaned off and the forms and steel washed off before proceeding.
- C. Sprinkle semiporous subgrades with water sufficiently to eliminate suction, but free from standing water or mud.

3.3 HANDLING AND DEPOSITING

- A. Complete concreting, once started, in a continuous operation until the section of approved sized and shape is completed.
- B. Handle concrete as rapidly as practical from the mixer to place of final deposit by methods which prevent the separation or loss of ingredients. Deposit in its final position to avoid rehandling or flowing.
 1. Do not drop concrete freely where reinforcing will cause segregation, nor more than 4 feet. Deposit concrete to maintain a plastic surface approximately horizontal.
 2. Do not deposit concrete that has partially hardened.
 3. Pumping: Maintain controls for proportioning, mixing, adjustment of mix and placement in accordance with ACI 301 and ACI 304.2R

3.4 VIBRATING AND COMPACTING

- A. Consolidate and compact concrete by suitable means during the operation of placing and depositing, and thoroughly work around reinforcement, embedded items, and into the corners of the forms. Use internal vibrators, and keep out of contact with reinforcement and wood forms. Do not use vibrators in a manner that forces mortar between individual form members.
- B. Vibrate close to the forms but do not continue at one spot to the extent that large areas of grout are formed or heavier aggregates are caused to settle. Take care not to disturb concrete which has taken its initial set.

3.5 TEMPERATURE AND WEATHER REQUIREMENTS

- A. Maximum placing temperature of concrete, when deposited, shall be 85 degrees F. If the weather causes the placing temperature to exceed 85 degrees f, cool the mix by wetting aggregate or other appropriate methods specified in ACI 305-77, Hot Weather Concreting; a copy of which shall be kept at the job site at all times.
- B. Do not place concrete during rain or freezing weather unless approved measures are taken to prevent damage to concrete.

3.6 PATCHING

- A. Immediately after stripping forms, patch minor defects, form tie holes, honeycombed areas, before concrete is thoroughly dry. Remove ledges and bulges. Repair gravel pockets by cutting out to solid surface, form key, and thoroughly wet before placing patching mortar. Use patching mortar consisting of one part cement to two parts fine sand; compact into place and neatly finish to match surface. Grind or fill surfaces to produce level, true planes.

3.7 CONCRETE SLAB FINISHES

- A. STEEL TROWEL FINISH: Screed, wood float, and steel trowel surfaces. Provide a smooth, hard, dense, impervious surface, free of defects. Mechanical troweling machines may be used if the desired finish and level tolerances can be obtained by their use.

3.8 CURING AND SEALING

- A. Protect concrete from injurious action of the elements and defacement of any nature during construction operations.
- B. Keep concrete in a thoroughly moist condition from the time it is placed until it has cured for at least 14 days. Keep all forms sufficiently wet to prevent drying out of the concrete. Allow no slabs to become dry at any time until curing operations are complete.
- C. Cure with curing-sealing compound. Apply by method and at rates recommended by manufacturer.

3.9 DEFECTIVE WORK

- A. Defective concrete work shall be removed and replaced at Contractor's expense.

3.10 TESTING

- A. The Contractor shall supply test cylinders of fresh concrete pours for use by Engineer and/or Owner in accordance with Subsection 201.1.1.4 of the "Green Book". Slump testing per ASTM C143 shall be accomplished at the ¼ point and ¾ point of each batch. The maximum slump for concrete to be used in footings and slabs shall be three (3) inches; the maximum slump for all other concrete shall be four (4) inches.

- B. Cylinder sampling shall be performed by the Owner in accordance to ASTM C31. Sample each 100 cy concrete and each separate mix design placed on any day. Make a minimum of four (4) cylinders per 100 cy of concrete. First test will be at 7 days, second test at 28 days and remaining cylinders will be held to verify test results, if needed.
 - 1. Backfilling against concrete shall not be performed until the concrete has reached a minimum of 70% of the design strength.
- C. All concrete which fails to meet the ACI requirements and these specifications, is subject to removal and replacement at no additional cost to the Owner.

PART 4 – MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. The work described herein will be measured for payment as a Lump Sum Item.

4.2 PAYMENT

Payments for these items will be paid at the contract lump sum price stated in the Schedule of Pay Items. Payments shall constitute full compensation for all materials, equipment and incidentals to satisfactory complete the work.

END OF SECTION

SECTION 15076 PIPING AND APPURTENANCES

PART 1 – GENERAL

1.1 DESCRIPTION

- A. This Section includes materials, testing, equipment, and installation of all pipe, fittings, valves, closure pieces, supports, bolts, nuts, gaskets, jointing materials and appurtenances as shown and specified and shall furnish and install all auxiliary piping and appurtenances as required for a complete and workable piping system in strict accordance with the plans and specifications.

1. Buried Pipe – Polyvinyl Chloride (PVC) pipe

1.2 RELATED SECTIONS

- A. Refer to the following Specification section(s) for additional requirements:

1. Section 01300 – SUBMITTALS
2. Section 02200 – EARTHWORK
3. Section 03300 – CAST-IN-PLACE CONCRETE

1.3 REFERENCES

- A. ASTM A283 Low and Intermediate Tensile Strength Carbon Steel Plates, Shapes and Bars
- B. ASTM A570 Hot-rolled Carbon Steel Sheet and Strip, Structural Quality
- C. ASTM C150 Portland Cement
- D. AWWA C200 Steel Water Pipe 6 inches and Larger
- E. AWWA C205 Cement-Mortar Protective Lining and Coating for Steel Water Pipe
- F. AWWA C206 Field Welding of Steel Water Pipe
- G. AWWA C207 Steel Pipe Flanges
- H. AWWA C208 Dimensions for Fabricated Steel Water Pipe Fittings
- I. AWWA C210 Liquid Epoxy Coating Systems for Interior and Exterior of Steel Water Pipelines
- J. AWWA C213 Fusion-Bonded Epoxy Coating for the Interior and Exterior of Steel Water Pipelines
- K. AWWA C602 Cement-Mortar Lining of Water Pipelines 4-in and Larger in Place
- L. AWWA MII Steel Pipe Guide for Design and Installation
- M. Standard Specifications Public Works Construction

1.4 QUALITY ASSURANCE

- A. Use adequate number of skilled workmen who are thoroughly trained and experienced in the necessary trades and crafts and who are completely familiar with the specified requirements and methods needed for the proper performance of the work of this section.

- B. The manufacture is responsible for the performance of all inspection requirements as specified in AWWA Standards. In addition, all pipe and fittings to be installed under this Contract may be inspected at the plant by Owner for compliance with these Specifications or by an independent testing laboratory selected by the Owner.
- C. Inspection of the pipe and fittings will also be made by the Owner or other representatives of the Owner after delivery. The pipe shall be subject to rejection at any time on account of failure to meet any of the Specification requirements, even though sample pipes may have been accepted as satisfactory at the place of manufacture. Pipe rejected after delivery shall be marked for identification and shall be removed from the job at once.
- D. All pipe and fittings shall be hydrostatically tested at the plant to 50 percent above the normal operating pressure or 150 psig, whichever is greater. If the fittings are made from hydrostatically tested pipe, then only dye testing of the welds is required. Any pin holes or porous welds which may be revealed by the test shall be chipped out and rewelded and the pipe or fitting retested.

1.5 SUBMITTALS

- A. Furnish submittals in accordance with the requirements of Section 01300, SUBMITTALS.
- B. The following submittals are required:
 - 1. Shop drawings shall be submitted in accordance with the General Provisions and as specified herein.
 - 2. Submit materials list showing material of pipe and fittings with ASTM reference and grade.

PART 2 - PRODUCTS

2.1 PVC PIPING MATERIALS

The PVC pipe for water services shall conform to the latest revision of SAWCO Material Specification and shall comply with these specifications as applicable.

A. General Requirements

- 1. PVC pipe shall be manufactured in accordance with AWWA C900 and shall be of the sizes and pressure classes shown on the plans. The dimension ratio (DR) for C900 PVC pressure pipe shall be DR-14 or thicker walled (lower DR). The pipe shall have gasketed bell end or plain end with elastomeric gasketed coupling.
- 2. Material: Material used to produce the pipe and couplings shall be made from Class 12454-A or B virgin compounds as defined in ASTM D1785, with an established hydrostatic design basis rating of 4,000 psi for water at 73.4°F (23°C).

3. Pipe Lengths: Laying lengths shall be 20 feet with the manufacturer's option to supply up to 15% random lengths (minimum length 10 feet).
4. Pipe Marking: Each pipe length shall be marked showing the date of manufacture, nominal pipe size and O.D. base, the AWWA DR, and the AWWA specification designation (AWWA C900). For potable water application, the seal of the testing agency that verified the suitability of the material for such service shall be included.
5. Pipe shall be designed for a minimum of 150 psi working pressure with an additional 50% of the working pressure allowance for surge pressure unless otherwise specified.

B. Fittings

Unless otherwise shown on the Plans:

1. All specials and fittings shall conform to the dimensions of AWWA Standard C208.
2. Pipe material used in fittings shall be of the same material and thickness as the pipe.
3. The minimum radius of elbows shall be 2.5 times the pipe diameter and the maximum miter angle on each section of the elbow shall not exceed 11 1/4 degrees (One cut elbow up to 22 1/2 deg.).
4. If elbow radius is less than 2.5 x pipe diameter, stresses shall be checked per AWWA M-11 and wall thickness or yield strength increased if necessary.
5. Fittings shall be equal in pressure design strength.
6. Specials and fittings, unless otherwise shown on the Plans, shall be made of segment ally welded sections from hydrostatically tested pipe, with ends compatible with the type of joint or coupling specified for the pipe.
7. All welds made after hydrostatic testing of the straight sections of pipe shall be checked per the requirements of AWWA C-200 Section 5.2.2.1

C. Joints

1. Rolled-Groove Rubber Gasket Joint: the standard joint shall be rolled-groove rubber gasket joint unless otherwise noted on the plans. Rolled-grooved rubber gasket joints shall conform to AWWA C900 Standard and as shown in Chapter 8 of AWWAM-11

D. Mechanical Couplings

1. Mechanical couplings where indicated on the plans shall be Romac Style 501, 400RG, Dresser style 38 or 138, Smith Blair Style 411, Baker Style 200, EBBAIRON Series 3800, or equal.
2. Insulating mechanical couplings where indicated on the plans shall be double insulated Romac, Smith Blair Style 416, Baker Style 216, or equal.
3. Mechanical couplings shall be rated to meet or exceed the working pressures and surge pressure of the pipe.

E. Flanges

1. Flanges shall be in accordance with AWWA C207 Class D for operating pressures to 175 psi on 4 inch through 12-inch diameter, and operating pressures to 150 psi on diameters over 12 inches; or Flanges shall be AWWA C207 Class E for operating pressures up to 275 psi; or Flanges shall be AWWA C207 Class F for pressures to 300 psi. (drilling matches ANSI B 16.5 Class 250) Shop lining and coating shall be continuous to the end of the pipe or back of the flange. Flange faces shall be shop coated with a soluble rust preventive compound.
2. Gaskets: Full face, 1/8-inch thick, cloth-inserted rubber, Garlock 3000, John Crane Co. Style 777 or equal.
3. Bolts and Nuts for Flanges
 - a. Bolts for flanges located indoors and in enclosed vaults and structures shall be carbon steel, ASTM A307, Grade B for class B and D flanges and nuts shall be ASTM A563, Grade A heavy hex. Bolts for class E and F flanges shall be ASTM A 193 grade B7 and nuts shall be ASTM A194, grade 2 H, heavy hex.
 - b. Bolts for buried and submerged flanges and flanges located outdoors above ground or in open vaults in structures shall be TYPE 316 stainless steel conforming to ASTM A193, Grade B8M, Class 1 for class B and D Flanges with ASTM 194, Grade 8M nuts. For Class E and F flanges the bolts shall be ASTM A194 grade 2H nuts with bolt and nuts to be zinc plated in accordance with ASTM B633

F. Linings and Coatings

1. Polyethylene Tape Coating
 - a. Coating of Fittings, Specials and Joints
 - (1) General – Fittings, specials and joints which cannot be machine coated in accordance with above, shall be coated in accordance with AWWA Standard C209. Prefabricated tape shall be Type II and shall be

compatible with the tape system used for straight-line pipe. The system shall consist of 3 layers consisting of the following: Alternate coating methods for fittings specials and field joints would be Shrink sleeves per C-216, or paint per C-210, C-218, or C-222. The field coating shall completely encapsulate the joint bonds on O-ring joints.

- (2) Coating Repair - Coating repair for fittings and specials shall be in accordance with the procedure described above for straight-line pipe and as recommended by the manufacturer.

b. Fittings:

1. Fittings shall be lined and coated per AWWA C205.

2.2 GASKETS

- A. Except as otherwise provided, gaskets for flanged joints shall be 1/16-inch-thick laminated non-asbestos fiber, Cranite, or an approved equal.
- B. Wherever blind flanges are shown, the gaskets shall consist of 1/16-inch-thick reinforced rubber which shall cover the entire inside surface of the blind flange and shall be cemented to the surface of the blind flange or as approved by the Engineer.

2.3 NUTS AND BOLTS

- A. All bolts, cap screws, anchor bolts and nuts that are buried or in contact with water shall be 316 Stainless Steel.
- B. All bolts, cap screws, anchor bolts and nuts that are above ground shall be ASTM A307 Steel galvanized after fabrication.
- C. All other hardware shall be of the size, type and number as required and recommended by the piping, or fitting manufacturer and as specified herein.

PART 3 - EXECUTION

3.1 GENERAL

- A. Pothole and make field measurements needed to install pipe before submitting shop drawings or ordering. Make minor changes in dimensions and alignments as needed to avoid utilities or structural conflicts.
- B. Trench Preparation: Earthwork shall be carried out in accordance with Section 02200, EARTHWORK. Pipe laying shall be scheduled so that the bell end of the pipe faces in the direction of laying. Prior to laying the pipe, the bottom of the trench shall be graded and prepared to provide uniform bearing throughout the entire length of each joint. Excavation shall be made as needed to facilitate removal of handling devices after the pipe is laid and to permit adequate access to the joints for field welding or connection operations and for application of coating on field joints.

- C. Lined and coated pipe shall be handled, stored and shipped in a manner that will prevent damage to the lining and/or coating. Pipe shall be handled with multiple wide fabric slings, padded cradles, or other devices acceptable to the Engineer, which are designed and constructed to prevent damage to the pipe coating. Metal chains, cables, tongs, metal tools, heavy objects or other equipment likely to cause damage to the pipe or coating shall not be used. The pipe shall not be rolled and shall be secured to prevent accidental rolling.
- D. All pipe and fittings, special and couplings shall be examined before installing, and no piece shall be installed which is found defective. Any damage to the coatings or linings shall be repaired as acceptable to the Owner.
- E. If any defective pipe is discovered after it has been installed, it shall be removed and replaced with a sound pipe in a satisfactory manner by the Contractor, at his own expense.
- F. All exposed piping shall be adequately supported with devices of appropriate design. Where details are shown, the supports shall conform thereto and shall be placed as indicated; provided that support for all piping shall be complete and adequate regardless of whether or not supporting devices are specifically called for on the drawings.
- G. All pipe shall be fabricated in the shop in accordance with the plans, specifications and shop drawings. Field fabrication of any pipe shall not be allowed unless the Contractor has submitted, to the District, a written request to perform pipe fabrication in the field. Field fabrication of any pipe shall not be performed until approval of the Contractor's request has been received. All field fabrication work shall be inspected during fabrication and prior to installation. It shall be the Contractor's responsibility to notify the Engineer a minimum of 24 hours prior to any field fabrication work.

3.2 INSTALLATION

- A. Install pipe according to manufacturer's installation and warranty requirements. Manufacturer's requirements for installation, application, connection, erection, maintenance, operating, cleaning, conditioning, and startup of products shall be strictly followed.
- B. Pipe shall be furnished and installed by the Contractor at the location shown on the Plans and Submittals. Each section of pipe shall be laid in the order and position shown on the laying diagrams and to the line and grade shown. Pipe shall be laid directly on the bedding material. Bumping of the pipe in the trench will not be permitted. Fabric slings and spreader bar shall be used for handling coated pipe.
- C. The Contractor shall regulate his equipment and construction operations such that the loading of the pipe does not exceed the loads for which the pipe is designed and manufactured. Sandbags shall be used to support the pipe when stockpiled.
- D. The Contractor shall permit and aid in the inspection of coating on the pipe at the time of installation and shall repair any damage before lowering the pipe into place.
- E. The Contractor shall take all necessary precautions to prevent the pipe from floating due to water entering the trench from any source, shall assume full responsibility for any

damage due to this cause, and shall restore and replace the pipe to its specified condition and grade if it is displaced due to flotation.

- F. Except for short runs, which may be permitted by the Engineer, pipe shall not be laid uphill on grades exceeding 10 percent. Pipe which is laid on a downhill grade shall be blocked and held in place until sufficient support is furnished by the following pipe to prevent movement.
- G. As pipe laying progresses, the Contractor shall keep the pipe interior free of all debris. The Contractor shall completely clean the interior of the pipe of all sand, dirt, and any other debris following completion of pipe laying, pointing or joints as applicable, and any necessary interior repairs prior to testing and disinfecting the completed pipeline.
- H. At all times when the pipe laying is not in progress, open end of pipes shall be closed with tight-fitting cap, plug or other approved means to prevent entrance of animals and foreign matter into the pipe.
- I. Good alignment shall be preserved during installation. The deflections at joints shall not exceed that recommended by the manufacturer. Fittings for closures, in addition to those shown on the Drawings, shall be provided. These fittings shall be cut to fit pieces for any make up required for proper construction.
- J. Connections to existing closed valves or isolated sections of active domestic water mains are permissible under direct Owner inspection and approval by an Owner, Engineer or Inspector. During construction and prior to pressure test, all valves will be equipped with a test plate, which will be provided by the Contractor.
- K. Installation of PVC Pipe
 - 1. Pipe Cutting: When pipe is cut and is to be joined to a ductile-iron fitting or another piece of pipe, the end shall be beveled in the field or shop to create a beveled end equal in workmanship to the machined ends of the pipe as furnished by the manufacturer. Such machining shall not result in undercutting the wall thickness and must be approved by the City Representative before installation.
 - 2. Joints: Connecting parts of pipe, rings, couplings, and castings shall be cleaned before assembly. After bearing has been obtained, couplings shall be assembled in a workmanlike manner. The use of excessive lubricant will not be permitted, and the assembly of the couplings and rings shall be in accordance with the manufacturer's recommendations. Lubricant and rubber rings shall be supplied by the pipe manufacturer.
 - 3. Trench, Bedding and Backfilling: All trenching, bedding and backfilling for steel piping to be laid in open trench shall be in accordance with the requirements specified in Special Provision, Section 2 and as specified herein.

3.3 CLEANING, DISINFECTION AND TESTING

- A. The Contractor will only be allowed to perform a pressure test on a water line when all valves adjacent to active water lines are protected with a test plate.
- B. Disinfect and test the pipe in accordance with Section 15040, PRESSURE TESTING, DISINFECTION AND FLUSHING OF PIPELINES.

PART 4 – MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. The work described herein will be measured for payment as Lump Sum Items.

4.2 PAYMENT

- A. Payments for these items will be paid at the contract lump sum price stated in the Schedule of Pay Items. Payments shall constitute full compensation for all materials, equipment and incidentals to satisfactory complete the work.

END OF SECTION

SECTION 15100 VALVES

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This Section includes materials, testing, and installation of manually operated valves and check valves.

1.2 RELATED WORK

- A. Section 01300: SUBMITTALS
- B. Section 15076: PIPING AND APPURTENANCES

1.3 SUBMITTALS

- A. Furnish submittals in accordance with the requirements of Section 01300, SUBMITTALS. The following submittals are required:
 - 1. Manufacturer's catalog data and detail construction sheets showing all valve parts and describing material of construction by material and specification (such as AISI, ASTM, SAE, or CDA).
 - 2. Valve dimensions including laying lengths. Show dimensions and orientation of valve operators, as installed on the valves.
 - 3. Valve linings and coatings.

PART 2 - MATERIALS

2.1 GENERAL

- A. Provide valves complete with operating handwheels, levers, chainwheels, extension stems, floor stands, worm gear operators, operating nuts, chains, and wrenches required for operation. All valves shall be new and of current manufacture. Valves shall have the name of the manufacturer and the size of the valve cast or molded onto the valve body or bonnet or shown on a permanently attached plate.

2.2 VALVES

- A. Gate Valves 3-Inches and Larger: Valves shall be resilient wedge type in conformance with AWWA C509 and District's Standard Specifications Section 5.2.2.1. Valve bodies shall be made of ductile iron. Gate valves shall be provided with "O" ring stem seals, fully rubber encapsulated wedges, minimum 8.0 mil fusion bonded epoxy coating inside and outside, full size unobstructed flow way and low zinc bronze non-rising stems.

Valves shall be Mueller, M&H, Clow and American AVK or approved equal.

- B. Butterfly Valves 4-Inches and Larger, Class 150B: Butterfly valves shall be short body, flanged type, conforming to AWWA C504, Class 150B. Do not use wafer style valves. Unless otherwise noted, minimum working differential pressure across the valve disc shall be 150 psi. Valve ends shall be as shown on the drawings; flanged ends shall be Class 125, ANSI B16.1. Valve shafts shall be Type 304 or 316 stainless-steel, or carbon steel with Type 304 or 316 stainless-steel journals and static seals. Valve shall be “seat on body” construction. Test valve bodies at 200 psi for 20 inch size and smaller and 175 psi for 24 inch and larger. Valves shall be minimum 8.0 mil fusion bonded epoxy coating inside and outside.

The rubber seat shall be an integral part of the valve body. Rubber seats fastened to the disc by any means are not allowed. Valves shall be M&H, Dezurik, or approved equal.

- C. Ball Valves 2-Inches and Smaller: Ball valves, 2-inches and smaller, for water service shall be bronze, and shall be rated at a pressure of 600 psi WOG at a temperature of 150°F. All body bolts shall be type 316 stainless steel. Valves shall conform to the requirements of the Technical conditions of the District’s Standard Specifications Section 3.2.4.

- D. Altitude Valves: Altitude valve shall be hydraulically operated, pilot controlled, with a single removable seat. Altitude valve for two way flow shall control high water level in tank without need for floats or other devices. Valve shall be ASTM A536 with a ductile iron body and cover. The valve disc shall be resilient synthetic rubber having a rectangular cross-section and shall be retained on three and a half sides. The flanged ends shall be Class 150, ANSI B16.42. Valve seat and disc shall be replaceable without removing the valve body from the pipeline. Valves shall be minimum 12.0 mil fusion bonded epoxy coating inside and outside. No external packing glands will be permitted. The diaphragm shall be manufactured of nylon fabric bonded with synthetic rubber and shall not be used as a seating surface. Valve shall shut when the water reaches the high level setting and automatically re-open when the level drops a present distance below the high level setting. Valves shall be Cla-Val Model number 210-16 or approved equal.

1. The pilot control operates on the differential in forces between a spring load and the water level in the tank. The pilot control measures the tank head through a sensing line connected directly to the tank. The entire valve and control system shall be designed so that no surface water can be drawn into the pilot system or main valve at any time. The tank liquid level outlet and altitude control valve shall be connected by means of a level sensing line. The level sensing line shall be of the size and type recommended by valve manufacture.

2.3 PAINTING AND COATING

- A. Above Ground Valves or Valves in Vaults: Coat metal valves (except bronze and stainless-steel valves) located above ground or in vaults and structures shall be a minimum of 8.0 mil fusion bonded epoxy coating inside and outside. Handwheels shall receive the same coating as the valves.
- B. Buried Valves: Coat buried metal valves and extension stems at the factory with a minimum of 8.0 mil fusion bonded epoxy coating inside and outside.

2.4 VALVE OPERATORS

- A. Operators for Exposed Valves Smaller Than 6-Inches: Provide lever or wrench operators having adjustable, open stop memory positions for exposed valves smaller than 6-inches.
- B. Operators for Buried and Submerged Valves
 - 1. Provide direct acting 2-inch square AWWA operating nuts for all buried and submerged valves less than 6-inches, and for buried and submerged gate valves less than 24-inches.
 - 2. Provide watertight shaft seals and watertight valve and actuator cover gaskets. Provide totally enclosed operators designed for buried or submerged service.
- C. Operating Torque Requirement for Buried Valves: Design operators on buried valves to produce the required torque on the operating nut with a maximum input of 150-foot pounds.
- D. Opening Direction: Valve operators, handwheels, or levers shall open by turning counterclockwise.
- E. Position Indicators: Provide valve position indicators for all above ground valves.

2.5 EXTENSION STEMS FOR BURIED VALVE OPERATORS

- A. Where the depth of the valve is such that its operating nut is more than 4-feet below grade, provide operating extension stems to bring the operating nut to a point between 24 to 36-inches below the surface of the ground and/or box cover. Extension stems shall be Type 316 Stainless steel solid core, and shall be complete with 2-inch-square operating nut. Provide stem with a 1/8-inch center guide to keep stem centered. Do not use pinned couplings.

2.6 OPERATOR WELLS FOR BURIED VALVES

- A. General: Valve operator wells shall be 8-inch Class 150 PVC c-gov.
- B. Valve Well Caps: Valve well caps shall be cast-iron or ductile iron and shall be designed to rest without a frame on a cast-in-place concrete ring surrounding the valve extension pipe. Taper the cap skirt for a close fit inside the upper sleeve portion of the valve well. Minimum weight of nominal 10-inch cap shall be 40 pounds. Color for potable waterlines shall be caterpillar yellow.
- C. Manufacturers: Valve wells for potable water lines shall be Brooks 4TT CVWD LFD, V4-T LID and valve was manufactured by J&R Concrete Products or approved equal. Valve boxes for reclaimed water lines shall be Brooks 4TT, Eisel Enterprises, Inc. H & C 4TT, or approved equal.

PART 3 – EXECUTION

3.1 JOINTS

- A. Flanged Joints: Bolt holes of flanged valves shall straddle the horizontal and vertical centerlines of the pipe run to which the valves are attached. Clean flanges by wire brushing before installing flanged valves. Clean flange bolts and nuts by wire brushing, lubricate threads with oil and graphite, and tighten nuts uniformly and progressively. If flanges leak under pressure testing, loosen or remove nuts and bolts, reseal or replace the gasket; reinstall or re-tighten the bolts and nuts; and re-test the joint. Joints shall be watertight.
- B. Threaded Joints: Clean threaded joints by wire brushing or swabbing. Apply Teflon joint compound or Teflon tape to pipe threads before installing threaded valves. Joints shall be watertight.

3.2 VALVE INSTALLATION

- A. Valves in Horizontal Piping: Unless otherwise indicated on the drawings, install valves in horizontal runs of pipe having centerline elevations 4'-6", or less, above the floor, with their operating stems vertical. Install valves in horizontal runs of pipe having centerline elevations between 4'-6" and 6'-9" above the floor with their operating stems horizontal.
- B. Valves in Vertical Piping: Install valves on vertical runs of pipe that are next to walls with their stems horizontal, away from the wall. Install valves on vertical runs of pipe that are not located next to walls with their stems horizontal, oriented to facilitate valve operation.
- C. Buried Valves: Wrap buried valves with two layers of 8-mil polyethylene wrap per AWWA C105.
- D. Valve Supports: Anchor valves in concrete as shown on the valve detail drawings. Concrete supports are not required for valves bolted to flanged pipe or fittings.
- E. Backfill: Backfill within 24-inches of valves shall be clean washed sand in accordance with the requirements of Section 02200, EARTHWORK.

3.3 VALVE BOXES

- A. Firmly support valve boxes and keep them centered and plumb over the operating nut of the valve. Do not use beveled sections of pipe at the top of the valve extension pipe. The top cut shall be square and machine made. In new tracts, and where pavement has not been placed, the valve extension risers for "key valves" shall extend well above the ground level to permit ease of location in case of emergency shutoffs. The final valve box elevation shall be flush with the finished pavement surface, or at the level shown on Drawing.

3.4 VALVE LEAKAGE TESTING

- A. Unless otherwise specified, each valve body shall be shop tested drip tight at 200 psi minimum, and shall test pressure equal to twice its design water-working pressure.
- B. Test valves for leakage at the same time that the connecting pipelines are tested.

PART 4 - PAYMENT

4.1 Measurement

- A. The work described herein will not be measured for payment.

4.2 Payment

- A. The work described herein will not be paid for separately. Payment for these items will be included in the price for pay items associated with work.

END OF SECTION