AGENDA IRVINE RANCH WATER DISTRICT BOARD OF DIRECTORS REGULAR MEETING

April 22, 2024

CALL TO ORDER 5:00 p.m.

PLEDGE OF ALLEGIANCE

ROLL CALL Directors LaMar, McLaughlin, Swan, Withers, and President Reinhart

PUBLIC COMMENT NOTICE

This meeting will be held in-person at the District's headquarters located at 15600 Sand Canyon Avenue, Irvine, California. The meeting will also be broadcasted via Webex for those wanting to observe the meeting virtually.

To observe this meeting virtually, please join online using the link and information below:

Via Web: https://irwd.webex.com/irwd/j.php?MTID=m03968c67b23bb4e2dd151ca12585820e

Meeting Number (Access Code): 2490 775 2380

Meeting Password: gmPyPxaQ333

PLEASE NOTE: Webex observers of the meeting will be placed into the Webex lobby when the Board enters closed session. Participants who remain in the "lobby" will automatically be returned to the open session of the Board once the closed session has concluded. Observers joining the meeting while the Board is in closed session will receive a notice that the meeting has been locked. They will be able to observe the meeting once the closed session has concluded.

Public comments are limited to three minutes per speaker on each subject. If you wish to address the Board of Directors on any item, you may attend the meeting in person and submit a "speaker slip" to the Secretary. Forms are provided outside of IRWD's Board Room. If attending via Webex, please submit your request to speak, or your comment, via the "chat" feature and your remarks will be read into the record at the meeting. You may also submit a public comment in advance of the meeting by emailing comments@irwd.com before 12:00 p.m. on Monday, April 22, 2024.

COMMUNICATIONS TO THE BOARD

- 1. Written:
- 2. Oral:
- 3. ITEMS RECEIVED TOO LATE TO BE AGENDIZED

Recommendation: Determine the need to discuss and/or take immediate action on item(s).

PRESENTATIONS

4. SCIENCE FAIR WINNERS

Each year, IRWD recognizes local students for their water-related projects entered in the Irvine Unified School District Science Fair.

CONSENT CALENDAR, Items 5 through 12

5. BOARD MEETING MINUTES

Recommendation: That the minutes of the April 8, 2024 Regular Board meeting be approved as presented.

6. MARCH 2024 TREASURY REPORT

Recommendation: That the Board receive and file the Treasurer's Investment Summary report, the summary of fixed and variable rate debt, and the disclosure report of reimbursements to Board members and staff, approve the March 2024 summary of payroll ACH payments in the total amount of \$2,591,554, and approve the March 2024 accounts payable disbursement summary of warrants 441442 through 442001, Workers' Compensation distributions, ACH payments, virtual card payments, wire transfers, payroll withholding distributions, and voided checks in the total amount of \$18,440,207.

7. FISCAL YEAR 2023-24 GUIDING PRINCIPLES SCORECARD

Recommendation: Receive and file.

8. PLANNING AREA 51 HERITAGE FIELDS CAPITAL FACILITIES

Recommendation: That the Board authorize the General Manager to accept Heritage Fields' construction contract with L&S Construction, Inc. in the amount of \$619,993.64 for the Planning Area 51 District 2 Whatney Capital Sanitary Sewer Improvements, Project 12823; and authorize the addition of Project 12823 in the amount of \$875,000 to the FY 2023-24 Capital Budget for the Planning Area 51 District 2 Whatney Capital Sanitary Sewer Improvements.

CONSENT CALENDAR, Items 5 through 12, continued

9. <u>FINAL INITIAL STUDY/MITIGATED NEGATIVE DECLARATION FOR</u> THE LAKE FOREST WOODS SEWER IMPROVEMENTS PROJECT

Recommendation: That the Board find on the basis of the whole record before it, including the final Initial Study/Mitigated Negative Declaration and comments received, that there is no substantial evidence that the Lake Forest Woods Sewer Improvements Project will have a significant effect on the environment and that the final Mitigated Negative Declaration reflects IRWD's independent judgment and analysis; adopt the proposed final Mitigated Negative Declaration for the project and the associated Mitigation Monitoring and Reporting Program, approve the project, and authorize staff to post and file a Notice of Determination.

10. CONSTRUCTION SERVICES CREW TRUCK UTILITY BED PURCHASE

Recommendation: That the Board authorize the General Manager to execute a Purchase Order with PB Loader Corporation in the amount of \$334,702 (\$167,351 per unit) for the purchase and installation of two new crew truck utility beds.

11. <u>MICHELSON WATER RECYCLING PLANT SOLIDS DISPOSAL 18-INCH</u> FORCE MAIN SEGMENT RELOCATION FINAL ACCEPTANCE

Recommendation: That the Board accept construction of the Michelson Water Recycling Plant Solids Disposal 18-inch Force Main Segment Relocation, authorize the General Manager to file a Notice of Completion, and authorize the payment of the retention 35 days after the date of recording the Notice of Completion Project 12520.

12. <u>GEOGRAPHIC INFORMATION SYSTEM UTILITY NETWORK</u> <u>MIGRATION CONSULTANT SELECTION</u>

Recommendation: That the Board authorize the General Manager to execute a Professional Services Agreement with DCSE in the amount of \$599,130 for the Utility Network Migration, Project 11782.

ACTION CALENDAR

13. <u>DISTRICT-WIDE EMERGENCY GENERATOR DIESEL FUEL STORAGE</u> BUDGET INCREASE, VARIANCE, AND CONSTRUCTION AWARD

Recommendation: That the Board authorize a budget increase in the amount of \$1,327,200, from \$2,567,800 to \$3,895,000, for Project 11536 and in the amount of \$582,200, from \$1,995,800 to \$2,578,000, for Project 11537; authorize the General Manager to execute a Variance No. 3 with PSOMAS in the amount of \$232,970; and authorize the General Manager to execute a construction contract with SS Mechanical Construction Corporation in the amount of \$2,996,135, for the District-Wide Emergency Generator Diesel Fuel Storage, Projects 11536 and 11537.

OTHER BUSINESS

Pursuant to Government Code Section 54954.2, members of the Board of Directors or staff may ask questions for clarification, make brief announcements, and make brief reports on his/her own activities. The Board or a Board member may provide a reference to staff or other resources for information, request staff to report back at a subsequent meeting concerning any matter, or direct staff to place a matter of business on a future agenda. Such matters may be brought up under the General Manager's Report or Directors' Comments. Pursuant to AB 1234 and Government Code Section 53232.3(d), a written draft report of the meetings that any Board member attended on behalf of IRWD since the last Board Meeting will be available at the table near the Board Room entrance, and will be amended verbally, if necessary, during Directors' Comments.

- 14. General Manager's Report
- 15. Receive oral update(s) from District liaison(s) regarding communities within IRWD's service area and interests.
- 16. Directors' Comments and Meeting Reports
- 17. Adjournment

Availability of agenda materials: Agenda exhibits and other writings that are disclosable public records distributed to all or a majority of the members of the above-named Board in connection with a matter subject to discussion or consideration at an open meeting of the Board are available for public inspection in the District's office, 15600 Sand Canyon Avenue, Irvine, California ("District Office"). If such writings are distributed to members of the Board less than 72 hours prior to the meeting, they will be available from the District Secretary of the District Office at the same time as they are distributed to Board Members, except that if such writings are distributed one hour prior to, or during, the meeting, they will be available electronically via the Webex meeting noted. Upon request, the District will provide for written agenda materials in appropriate alternative formats, and reasonable disability-related modification or accommodation to enable individuals with disabilities to participate in and provide comments at public meetings. Please submit a request, including your name, phone number and/or email address, and a description of the modification, accommodation, or alternative format requested at least two days before the meeting. Requests should be emailed to comments@irwd.com. Requests made by mail must be received at least two days before the meeting. Requests will be granted whenever possible and resolved in favor of accessibility.

April 22, 2024 Prepared and

submitted by: K. Swan

Approved by: Paul A. Cook

CONSENT CALENDAR

BOARD MEETING MINUTES

SUMMARY:

Provided are the minutes of the April 8, 2024 Regular Board meeting for approval.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE APRIL 8, 2024 REGULAR BOARD MEETING BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" – April 8, 2024 Minutes

No. 5 Minutes 5

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EXHIBIT "A"

MINUTES OF REGULAR MEETING – APRIL 8, 2024

The regular meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) was called to order by Acting President LaMar at 5:04 p.m. on April 8, 2024 at the District offices, 15600 Sand Canyon Avenue, Irvine.

President LaMar said that prior to roll call, he asked the Secretary to make a statement.

Secretary Swan announced that Director Reinhart joined the Board meeting via teleconference pursuant to California Government Code Section 54953, and that he is participating from the Emerald Desert RV Resort located at 76000 Frank Sinatra Drive, Space 302, Palm Desert, CA 92211. In response to Secretary Swan's inquiry, Director Reinhart said that the agenda was posted at that site 72 hours in advance for any member of the public to review and that no one wished to participate in the meeting. Secretary Swan said that all votes this evening will be taken by a roll call vote.

Directors Present: Reinhart (via teleconference), McLaughlin, Withers, Swan, and LaMar.

Director Absent: None.

Oral and Written Communications: None.

Items too late to be agendized: None.

Also Present: General Manager Cook, Executive Director of Technical Services Burton, Executive Director of Operations Chambers, Executive Director of Finance Adly, Executive Director of Water Policy Weghorst, Director of Human Resources Mitcham, Director of Maintenance Manning, Director of Safety and Security Choi, Director of Strategic Communication and Advocacy Compton, Director of Water Quality and Regulatory Compliance Colston, Director of Water and Recycling Operations Zepeda, General Counsel Collins (via teleconference), Secretary Swan, Consultant Newell (via teleconference), and members of the staff and public.

CONSENT CALENDAR

On <u>MOTION</u> by Swan, seconded by Withers and unanimously carried on a roll call vote (5-0, Withers, Swan, Reinhart, McLaughlin, and LaMar voting aye), CONSENT CALENDAR ITEMS 4 THROUGH 5 WERE APPROVED AS FOLLOWS:

4. BOARD MEETING MINUTES

Recommendation: That the minutes of the March 25, 2024 Regular Board meeting be approved as presented.

5. 2024 LEGISLATIVE AND REGULATORY UPDATE

Recommendation: The Board adopt a "support" position on AB 2599 (Asm. ESTM Com.) and SB 1110 (Ashby); a "watch" position on AB 2533 (Carillo), AB 3121 (Hart), SB 1185 (Niello), and SB 1330 (Archuleta); a "seek amendments" position on AB 2409 (Papan); and an "oppose unless amended" position on AB 2079 (Bennett) and AB 2592 (Grayson).

OTHER BUSINESS

6. General Manager's Report

Mr. Cook stated that he did not have a report for the evening.

7. Receive oral update(s) from District liaison(s) regarding communities within IRWD's service area and interests.

Consultant Newell participated via teleconference, and via General Manager Cook, reported that all is well in the Canyons.

8. Directors' Comments and Meeting Reports

Director McLaughlin stated that she had nothing to report.

Director Withers reported on his participation in the ISDOC Executive Committee meeting and the WACO Monthly meeting.

Director Swan reported on his attendance for the West Basin Board Workshop meeting with the MWD Board of Directors in Carson; the MWDOC Planning and Operations Committee Meeting; the Southern California Water Dialogue Steering Committee Meeting; the MWDOC Workshop Board Meeting with MWD Directors; and the WACO Monthly Meeting.

President LaMar reported on his attendance for the CCEEB 501(c)(3) California Environmental Dialogue meeting; the Riverside County Water Task Force meeting; the ACWA Executive Committee; and the ACWA Board of Directors' meeting in Sacramento.

Director Reinhart reported on his participation in the MWDOC Planning and Operations Committee Meeting; the MWDOC Workshop Board Meeting with MWD Directors; the OCWD Communications and Legislative Liaison Committee Meeting; and the WACO Monthly Meeting.

9. CLOSED SESSION

President LaMar convened the meeting into Closed Session at 5:09 p.m. with General Legal Counsel Collins announcing the following:

A. CONFERENCE WITH LEGAL COUNSEL—EXISTING LITIGATION Pursuant to Government Code Section 54956.9(d)(1): *Graciela Montejano v. IRWD*, *et al.*, Case No. 30-2022-01251588-CU-OE-NJC

10. OPEN SESSION

Following the Closed Session, the meeting was reconvened in Open Session with Directors Withers, Swan, Reinhart (via teleconference), McLaughlin, and LaMar present. General Counsel Collins announced that there was no action to report.

11. Adjournment

There being no further business, President LaMar adjourned the meeting at 5:22 p.m.

APPROVED and SIGNED this 22 nd day o	f April 2024.
	President, IRVINE RANCH WATER DISTRICT
APPROVED AS TO FORM:	Secretary, IRVINE RANCH WATER DISTRICT
Claire Hervey Collins, General Counsel	
Hanson Bridgett LLP	

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April 22, 2024

Prepared by: O. Mendoza / J. Davis

Submitted by: N. Adly

Approved by: Paul A. Cook

CONSENT CALENDAR

MARCH 2024 TREASURY REPORT

SUMMARY:

The following is submitted for the Board's information and approval:

- A. The March 2024 Investment Summary Report. This Investment Summary Report conforms with the 2024 Investment Policy and provides sufficient liquidity to meet estimated expenditures during the next six months as outlined in Exhibit "A";
- B. The Summary of Fixed and Variable Rate Debt as of March 31, 2024, as outlined in Exhibit "B";
- C. The Monthly Interest Rate Swap Summary as of March 31, 2024, as outlined in Exhibit "C":
- D. The March 31, 2024, Disbursement Summary of warrants 441442 through 442001, Workers' Compensation distributions, ACH payments, virtual card payments, wire transfers, payroll withholding distributions, and voided checks in the total amount of \$18,440,207 as outlined in Exhibit "D";
- E. The Summary of Payroll ACH payments in the total amount of \$2,591,554 as outlined in Exhibit "E"; and
- F. The Disclosure Report of Reimbursements to Board members and staff for March 2024, detailing payments or reimbursements for individual charges of \$100 or more per transaction as outlined in Exhibit "F".

FISCAL IMPACTS:

As of March 31, 2024, the book value of the investment portfolio was \$373,822,259, with a 4.36% rate of return and a market value of \$372,219,406. Based on IRWD's March 31, 2024, quarterly real estate annualized investment rate of return of 15.18%, the weighted average return for the fixed income and real estate investments was 6.74%.

As of March 31, 2024, the outstanding principal amount of fixed and variable rate debt was \$587,895,000. The monthly weighted average all-in variable rate was 3.56%. Including IRWD's weighted average fixed rate bond issues of 3.73% and the negative cash accruals from fixed payer interest rate swaps, which hedge a portion of the District's variable rate debt, the total average debt rate was 3.70%.

Payroll ACH payments totaled \$2,591,554 and wire transfers, all other ACH payments, and checks issued for debt service, accounts payable, payroll, water purchases, and voided checks for March totaled \$18,440,207.

No. 6 Treasury Report

Consent Calendar: March 2024 Treasury Report

April 22, 2024

Page 2

ENVIRONMENTAL COMPLIANCE:

This item is not a project as defined in the California Environmental Quality Act Code of Regulations, Title 14, Chapter 3, Section 15378.

COMMITTEE STATUS:

All items in this report were not submitted to a Committee; the investment and debt reports are submitted to the Finance and Personnel Committee monthly.

RECOMMENDATION:

THAT THE BOARD RECEIVE AND FILE THE TREASURER'S INVESTMENT SUMMARY REPORT, THE SUMMARY OF FIXED AND VARIABLE RATE DEBT, AND THE DISCLOSURE REPORT OF REIMBURSEMENTS TO BOARD MEMBERS AND STAFF, APPROVE THE MARCH 2024 SUMMARY OF PAYROLL ACH PAYMENTS IN THE TOTAL AMOUNT OF \$2,591,554, AND APPROVE THE MARCH 2024 ACCOUNTS PAYABLE DISBURSEMENT SUMMARY OF WARRANTS 441442 THROUGH 442001, WORKERS' COMPENSATION DISTRIBUTIONS, ACH PAYMENTS, VIRTUAL CARD PAYMENTS, WIRE TRANSFERS, PAYROLL WITHHOLDING DISTRIBUTIONS, AND VOIDED CHECKS IN THE TOTAL AMOUNT OF \$18,440,207.

LIST OF EXHIBITS:

Exhibit "A" – Investment Summary Report

Exhibit "B" - Summary of Fixed and Variable Debt

Exhibit "C" – Monthly Interest Rate Swap Summary

Exhibit "D" – Monthly Summary of District Disbursements

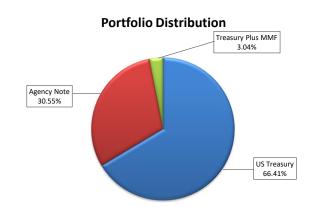
Exhibit "E" – Monthly Payroll ACH Summary

Exhibit "F" - Disclosure of Reimbursements to Board Members and Staff

Exhibit "A"

Irvine Ranch Water District Investment Portfolio Summary March 2024

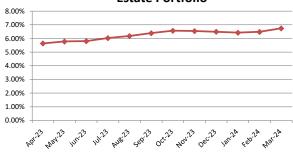




Investment Summary

Type	PAR	Book Value	Market Value
US Treasury	250,000,000	248,297,534	247,380,910
Agency Note	115,000,000	114,070,829	113,384,600
Treasury Plus MMF	11,453,897	11,453,897	11,453,897
Grand Total	376,453,897	373,822,259	372,219,406

Weighted Average Return Including Real Estate Portfolio



Maturity Distribution



Top Issuers

Issuer	PAR	% Portfolio
US Treasury	250,000,000	66.41%
Fed Farm Credit Bank	55,000,000	14.61%
Fed Home Loan Bank	40,000,000	10.63%
Fed Home Loan Mortgage Corp	15,000,000	3.98%
Wells Fargo / Allspring	11,453,897	3.04%
Fed Natl Mortgage Assoc	5,000,000	1.33%
Grand Total	376,453,897	100.00%

IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT

03/31/24

	SETTLMT	Call Schedule	Initial Call	Maturity Date	Rating	INVESTMENT TYPE	INSTITUTION / ISSUER	PAR Amount	COUPON DISCOUNT	YIELD	ORIGINAL COST	CARRY VALUE	MARKET VALUE ⁽¹⁾ 3/31/2024	UNREALIZED ⁽²⁾ GAIN/(LOSS)
	04/06/23			04/01/24		LAIF	State of California Tsy.	\$0.00		4.220%	\$0.00	\$0.00	0.00	0.00
	03/31/24			04/01/24		Treasury Plus MMF	Wells Fargo / Allspring	11,453,896.55		5.181%	11,453,896.55	11,453,896.55	11,453,896.55	0.00
	03/08/24	NA	NA	04/04/24	Aaa/NR/AAA	Treasury - Bill	US Treasury	5,000,000	5.265%	5.374%	4,980,256.25	4,997,806.25	4,997,804.15	(2.10)
	04/21/22	NA	NA	04/30/24	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	2.000%	2.600%	9,882,421.88	9,995,392.21	9,970,312.50	(25,079.71)
	05/31/22	NA	NA	05/31/24	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	2.500%	2.560%	9,988,281.25	9,999,038.13	9,950,781.30	(48,256.83)
	08/17/22	NA	NA	06/14/24	Aaa/AA+/AAA	FHLB - Note	Fed Home Loan Bank	5,000,000	3.125%	3.315%	4,983,199.99	4,998,136.13	4,977,600.00	(20,536.13)
	12/16/22	NA	NA	06/14/24	Aaa/AA+/AAA	FHLB - Note	Fed Home Loan Bank	5,000,000	4.875%	4.611%	5,018,300.00	5,002,480.22	4,994,900.00	(7,580.22)
	12/01/22	NA	NA	07/02/24	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000		4.450%	4,795,376.45	4,967,486.41	4,954,350.00	(13,136.41)
	02/21/24	NA	NA	07/11/24	Aaa/NR/AAA	Treasury - Bill	US Treasury	5,000,000		5.299%	4,899,976.17	4,928,351.72	4,927,441.30	(910.42)
	08/17/22	NA	NA	07/31/24	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000		3.249%	4,976,562.50	4,996,028.10	4,960,351.55	(35,676.55)
	11/30/23	NA	NA	07/31/24	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000		5.288%	9,770,312.50	9,886,097.59	9,881,640.60	(4,456.99)
	08/31/22	NA	NA	08/26/24	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	3.375%	3.500%	4,988,050.00	4,997,580.37	4,963,100.00	(34,480.37)
S	09/09/22	One Time	11/28/2022	08/28/24	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000		3.950%	4,995,000.00	4,998,963.84	4,976,300.00	(22,663.84)
	02/28/23	One Time	8/28/2023	08/28/24	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000		5.338%	4,993,750.00	4,998,297.53	4,998,950.00	652.47
	08/31/22	NA	NA	09/13/24	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000		3.530%	4,972,750.00	5,016,170.03	4,952,500.00	(63,670.03)
	09/30/22	NA	NA	09/13/24	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000		4.340%	4,898,930.00	4,976,643.49	4,952,500.00	(24,143.49)
	09/30/22	NA	NA	09/26/24	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000		4.334%	4,992,100.00	4,998,065.75	4,972,300.00	(25,765.75)
	10/17/22	NA	NA	10/17/24	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	10,000,000		4.535%	9,969,800.00	9,991,778.66	9,956,400.00	(35,378.66)
	03/14/24	NA	NA	10/31/24	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000		5.257%	4,908,007.81	4,915,176.03	4,914,648.45	(527.58)
	10/31/22	NA	NA	11/15/24	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000		4.489%	4,783,984.38	4,933,979.14	4,908,984.40	(24,994.74)
	12/22/22	NA	NA	11/18/24	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000		4.260%	4,693,316.75	4,898,358.92	4,862,950.00	(35,408.92)
	10/31/22	NA	NA	12/31/24	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000	2.250%	4.471%	4,773,046.88	4,921,483.39	4,893,359.40	(28,123.99)
	10/31/22	NA	NA	12/31/24	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000		4.483%	4,771,875.00	4,921,077.97	4,893,359.40	(27,718.57)
	10/31/22	NA	NA	01/15/25	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000	1.125%	4.476%	4,651,562.50	4,875,218.79	4,846,093.75	(29,125.04)
	10/31/22	NA NA	NA NA	01/13/25	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000	2.500%	4.483%	4,789,843.75	4,924,739.58	4,893,164.05	(31,575.53)
	11/30/23	NA NA	NA NA	01/31/25	Aaa/AA+/AA+	Treasury - Note Treasury - Note	US Treasury	10,000,000	2.500%	5.097%	9,708,593.75	9,792,339.00	9,786,328.10	(6,010.90)
	02/07/23	NA NA	NA NA	02/14/25	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000		4.500%	4,737,350.00	4,886,469.72	4,850,550.00	(35,919.72)
	12/30/22	NA NA	NA NA	02/14/25	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000		4.317%	4,839,453.13	4,932,412.00	4,896,679.70	(35,732.30)
	02/07/23	NA NA	NA NA	03/14/25	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000		4.518%	4,973,050.00	4,987,791.58	4,962,400.00	(25,391.58)
	12/30/22	NA NA	NA NA	03/14/23	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000	1.750%	4.318%	4,731,250.00	4,883,964.02	4,846,484.40	(37,479.62)
	04/12/23	NA NA	NA NA	03/13/25	Aaa/AA+/AA+ Aaa/AA+/AA+	Treasury - Note Treasury - Note	US Treasury US Treasury	20,000,000		4.329%	19,925,781.25	19,962,426.11	19,773,437.60	(188,988.51)
		NA NA	NA NA	03/31/23		FHLB - Note	Fed Home Loan Bank					, ,		
	12/22/22				Aaa/AA+/AAA			5,000,000		4.160%	5,004,550.00	5,001,998.50	4,959,550.00	(42,448.50)
	12/08/22 01/11/23	Quarterly	02/12/2023	05/12/25	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000		4.427%	4,843,000.00	4,928,056.43	4,897,600.00	(30,456.43)
		NA	NA	05/15/25	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000		4.148%	4,845,312.50	4,926,003.29	4,878,125.00	(47,878.29)
	12/13/22	NA	NA	06/13/25	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000		4.340%	4,989,400.00	4,994,914.79	4,965,750.00	(29,164.79)
	12/13/22	NA	NA	06/13/25	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	4.250%	4.352%	4,988,000.00	4,994,243.15	4,965,750.00	(28,493.15)
	08/01/23	NA	NA	07/15/25	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	3.000%	4.917%	9,646,875.00	9,767,550.77	9,764,453.10	(3,097.67)

IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT

03/31/24

				03/3	1/24							
Call Schedule	Initial Call	Maturity Date	Rating	INVESTMENT TYPE	INSTITUTION / ISSUER	PAR Amount	COUPON DISCOUNT	YIELD	ORIGINAL COST	CARRY VALUE	MARKET VALUE ⁽¹⁾ 3/31/2024	UNREALIZED ⁽²⁾ GAIN/(LOSS)
NA	NA	07/24/25	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	10,000,000	4.250%	4.253%	10,000,000.00	10,000,000.00	9,924,300.00	(75,700.00
NA	NA	09/23/25	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	10,000,000	0.375%	4.127%	9,143,400.00	9,477,918.74	9,365,900.00	(112,018.74
NA	NA	10/15/25	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000	4.250%	4.298%	4,993,359.38	4,996,442.30	4,958,593.75	(37,848.55
NA	NA	11/15/25	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	2.250%	4.719%	9,543,750.00	9,621,599.65	9,605,468.80	(16,130.85
Continuous after	9/12/2023	12/12/25	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	4.125%	4.694%	4,920,500.00	4,955,474.25	4,930,950.00	(24,524.25
NA	NA	02/15/26	Aaa/AA+/AA+	Treasury - Note	US Treasury	15,000,000	4.000%	4.553%	14,844,140.63	14,852,739.77	14,815,429.65	(37,310.12
NA	NA	06/15/26	Aaa/AA+/AA+	Treasury - Note	US Treasury	15,000,000	4.125%	4.566%	14,819,531.25	14,864,858.28	14,850,000.00	(14,858.28
NA	NA	09/15/26	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	4.625%	4.846%	9,939,453.13	9,949,898.02	10,023,437.50	73,539.48
NA	NA	10/15/26	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	4.625%	4.784%	9,956,640.63	9,962,679.54	10,027,343.80	64,664.26
NA	NA	12/15/26	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	4.375%	4.020%	10,098,046.88	10,089,446.28	9,977,343.80	(112,102.48)
NA	NA	01/15/27	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	4.000%	4.171%	9,952,734.38	9,955,404.01	9,882,031.30	(73,372.71)
NA	NA	09/30/27	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	4.125%	4.195%	9,976,953.13	9,977,326.00	9,922,656.30	(54,669.70)
NA	NA	10/31/28	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	4.875%	4.464%	10,179,687.50	10,167,202.27	10,253,125.00	85,922.73
NA	NA	11/30/28	Aaa/AA+/AA+	Treasury - Note	US Treasury	15,000,000	4.375%	3.897%	15,319,921.88	15,300,853.69	15,082,031.25	(218,822.44)
						\$376,453,897	- =	- -	\$370,851,335.03	\$373,822,258.97	\$372,219,406.45	(\$1,602,852.52)
						\$376,453,897	=	=	\$370,851,335.03	\$373,822,258.97	\$372,219,406.45	(\$1,602,852.52)
				Petty Cash					3,400.00			
				Ck Balance	Bank of America	ECR	1.77%		2,925,889.79			
				Ck Balance	Wells Fargo	ECR	2.00%		0.00	(5)		
	Schedule NA NA NA NA Continuous after NA	Schedule Call NA NA NA NA NA NA NA NA Continuous after 9/12/2023 NA NA NA NA	Schedule Call Date NA NA 07/24/25 NA NA 09/23/25 NA NA 10/15/25 NA NA 11/15/25 Continuous after 9/12/2023 12/12/25 NA NA 02/15/26 NA NA 06/15/26 NA NA 10/15/26 NA NA 10/15/26 NA NA 12/15/26 NA NA 01/15/27 NA NA 09/30/27 NA NA 10/31/28	Schedule Call Date Rating NA NA 07/24/25 Aaa/AA+/AAA NA NA 09/23/25 Aaa/AA+/AAA NA NA 10/15/25 Aaa/AA+/AA+ NA NA 11/15/25 Aaa/AA+/AA+ Continuous after 9/12/2023 12/12/25 Aaa/AA+/AAA NA NA 02/15/26 Aaa/AA+/AA+ NA NA 06/15/26 Aaa/AA+/AA+ NA NA 09/15/26 Aaa/AA+/AA+ NA NA 10/15/26 Aaa/AA+/AA+ NA NA 10/15/26 Aaa/AA+/AA+ NA NA 01/15/27 Aaa/AA+/AA+ NA NA 09/30/27 Aaa/AA+/AA+ NA NA 09/30/27 Aaa/AA+/AA+ NA NA 10/31/28 Aaa/AA+/AA+	Call Schedule Initial Call Maturity Date Rating INVESTMENT NA NA 07/24/25 Aaa/AA+/AAA FFCB - Note NA NA 09/23/25 Aaa/AA+/AAA FHLMC - Note NA NA 10/15/25 Aaa/AA+/AA+ Treasury - Note NA NA 11/15/25 Aaa/AA+/AA+ Treasury - Note Continuous after 9/12/2023 12/12/25 Aaa/AA+/AA+ FFCB - Note NA NA 02/15/26 Aaa/AA+/AA+ Treasury - Note NA NA 06/15/26 Aaa/AA+/AA+ Treasury - Note NA NA 09/15/26 Aaa/AA+/AA+ Treasury - Note NA NA 10/15/26 Aaa/AA+/AA+ Treasury - Note NA NA 10/15/26 Aaa/AA+/AA+ Treasury - Note NA NA 10/15/26 Aaa/AA+/AA+ Treasury - Note NA NA 10/15/27 Aaa/AA+/AA+ Treasury - Note NA NA 09/30/27 Aaa/AA+/AA+	Call Schedule Initial Call Date Maturity Rating INVESTMENT INSTITUTION / ISSUER NA NA 07/24/25 Aaa/AA+/AAA FFCB - Note Fed Farm Credit Bank NA NA 09/23/25 Aaa/AA+/AAA FFCB - Note Fed Home Loan Mortgage Corp NA NA 10/15/25 Aaa/AA+/AA+ Treasury - Note US Treasury NA NA 11/15/25 Aaa/AA+/AA+ Treasury - Note US Treasury Continuous after 9/12/2023 12/12/25 Aaa/AA+/AAA FFCB - Note Fed Farm Credit Bank NA NA 0A 02/15/26 Aaa/AA+/AAA FFCB - Note US Treasury NA NA 06/15/26 Aaa/AA+/AA+ Treasury - Note US Treasury NA NA 09/15/26 Aaa/AA+/AA+ Treasury - Note US Treasury NA NA 10/15/26 Aaa/AA+/AA+ Treasury - Note US Treasury NA NA 10/15/27 Aaa/AA+/AA+ Treasury - Note US Treasury NA<	Call Schedule Initial Call Maturity Date Rating TYPE ISSUER Amount NA NA NA 07/24/25 Aaa/AA/AAA FFCB - Note Fed Farm Credit Bank 10,000,000 NA NA 09/23/25 Aaa/AA+/AAA FHLMC - Note Fed Home Loan Mortgage Corp 10,000,000 NA NA 10/15/25 Aaa/AA+/AAA FFCB - Note US Treasury 5,000,000 NA NA 11/15/25 Aaa/AA+/AA+ Treasury - Note US Treasury 10,000,000 Continuous after 9/12/2023 12/12/25 Aaa/AA+/AA+ Treasury - Note US Treasury 15,000,000 NA NA 02/15/26 Aaa/AA+/AA+ Treasury - Note US Treasury 15,000,000 NA NA 09/15/26 Aaa/AA+/AA+ Treasury - Note US Treasury 10,000,000 NA NA 10/15/26 Aaa/AA+/AA+ Treasury - Note US Treasury 10,000,000 NA NA 10/15/26 Aaa/AA+/AA+ Treasury - Note US Tr	Call	Call	Call	Call	Call

and/or broker dealer pricing. Investment Balance:				\$373,780,625	
(2) Gain (loss) calculated against carry value using the trading value provided by Bank of New York/or Brokers Investment to Variable Rat	te Debt Ratio:			241%	
(3) Real estate rate of return is based on most recent quarter end return. Portfolio - Average Number	er of Days To Maturity			506	
⁽⁴⁾ Original Cost updated to reflect capital tenant improvements added for Fiscal Year 2023.					
of capital tenant improvements during FY 2023.					
(5) Cash balance in this account are funds that are pending purchase into the current money market fund.		Investment	Real Estate ⁽³⁾⁽⁴⁾	Weighted Avg.	
*S - Step up		Portfolio	Portfolio	Return	
This Investment Summary Report is in conformity with the 2024 Investment Policy	March	4.36%	15.18%	6.74%	
and provides sufficient liquidity to meet the next six months estimated expenditures.	February	4.26%	14.37%	6.48%	
	Change	0.10%		0.26%	

IRVINE RANCH WATER DISTRICT SUMMARY OF MATURITIES

03/31/24

DATE	TOTAL	%	LAIF	Agency Notes	Agency Discount	Municipal Bonds	US Treasury	Investment
					Notes			Sweep
3/24	11,453,897	3.04%						11,453,897
4/24	15,000,000	3.98%					15,000,000	
5/24	10,000,000	2.66%					10,000,000	
6/24	10,000,000	2.66%		10,000,000				
7/24	25,000,000	6.64%		5,000,000			20,000,000	
8/24	15,000,000	3.98%		15,000,000				
9/24	15,000,000	3.98%		15,000,000				
10/24	15,000,000	3.98%		10,000,000			5,000,000	
11/24	10,000,000	2.66%		5,000,000			5,000,000	
12/24	10,000,000	2.66%					10,000,000	
1/25	20,000,000	5.31%					20,000,000	
2/25	10,000,000	2.66%		5,000,000			5,000,000	
SUB-TOTAL	\$166,453,897	44.22%		\$65,000,000			\$90,000,000	\$11,453,897
12.M 4 2.VEADG								
13 Months - 3 YEARS	Φ45 000 000	11.050/		1,5,000,000			20,000,000	
3/01/2025 - 05/31/2025	\$45,000,000	11.95%		15,000,000			30,000,000	
06/01/2025 - 08/31/2025	\$30,000,000	7.97%		20,000,000			10,000,000	
9/01/2025 - 11/30/2025	\$25,000,000	6.64%		10,000,000			15,000,000	
12/01/2025 - 2/28/2026	\$20,000,000	5.31%		5,000,000			15,000,000	
3/01/2026 - 05/31/2026								
06/01/2026 - 08/31/2026	\$15,000,000	3.98%					15,000,000	
09/01/2026 - 11/30/2026	\$20,000,000	5.31%					20,000,000	
12/01/2026 - 2/28/2027	\$20,000,000	5.31%					20,000,000	
03/01/2027 +	\$35,000,000	9.30%					35,000,000	

% OF PORTFOLIO 30.55% 66.41% 3.04%

\$50,000,000

\$115,000,000

\$160,000,000

\$250,000,000

\$11,453,897

SUB-TOTAL

TOTALS

\$210,000,000

\$376,453,897

55.78%

100.00%

Irvine Ranch Water District Summary of Real Estate - Income Producing Investments 3/31/2024

ANNUALIZED

	ACQUISITION DATE	PROPERTY TYPE	OWNERSHIP INTEREST		ORIGINAL COST	MA	RKET VALUE 6/30/2023	RATE OF RETURN QUARTER ENDED 3/31/2024
Sycamore Canyon	Dec-92	Apartments	Fee Simple	\$	45,457,369	\$	178,606,250	24.67%
Wood Canyon Villas	Jun-91	Apartments	Limited Partner	\$	6,000,000	\$	36,246,127	8.61%
ITC (230 Commerce)	Jul-03	Office Building	Fee Simple	\$	5,568,747	\$	12,484,800	7.77%
Waterworks Business Pk.	Nov-08	Research & Dev.	Fee Simple	\$	8,983,395	\$	12,068,640	8.44%
Sand Canyon Professional Center - Medical Office	Jul-12	Medical Office	Fee Simple	\$	8,715,929	\$	12,380,760	8.19%
Sand Canyon Professional Center - General Office ⁽¹⁾	Sep-20	Office Building	Fee Simple	Fee Simple \$ 31,404,103		\$	40,559,820	7.90%
Total - Income Properties				\$	106,129,543	\$	292,346,397	15.18%

⁽¹⁾ Original Cost updated to reflect capital tenant improvements added for Fiscal Year 2023.

IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT INVESTMENT ACTIVITY⁽¹⁾

Mar-24

MATURITIES/SALES/CALLS

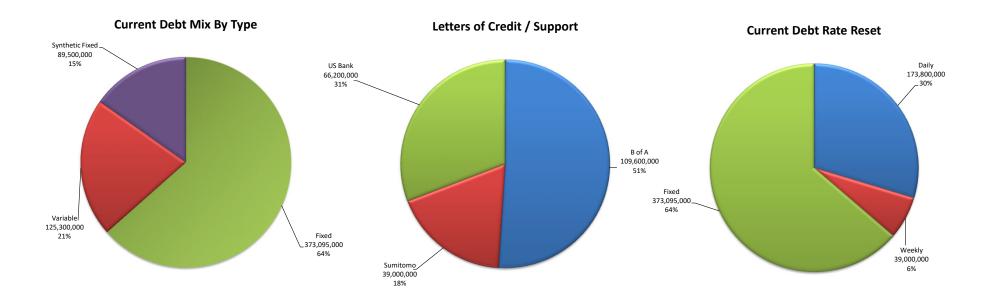
PURCHASES

DATE	SECURITY TYPE	PAR	YIELD	Settlement Date	Maturity Date	SECURITY TYPE	PAR	YIELD TO MATURITY
3/8/2024	FHLB - Note	\$10,000,000	1.68%	3/8/2024	4/4/2024	Treasury - Bill	\$5,000,000	5.37%
3/14/2024	Treasury - Bill	\$5,000,000	5.37%	3/11/2024	9/30/2027	Treasury - Note	\$10,000,000	4.19%
				3/14/2024	10/31/2024	Treasury - Note	\$5,000,000	5.26%

⁽¹⁾ Italicized entries indicate securities that are scheduled but not yet matured, sold, called, or purchased. There may be additional investment purchases if there are pending maturities for the month.

Exhibit "B"

Irvine Ranch Water District Summary of Fixed and Variable Rate Debt March 2024



Outstanding Par by Series

Series	Issue Date	Maturity Date	Remaining Principal	Percent	Letter of Credit/Support	Rmkt Agent	Mode	Reset
Series 1993	05/19/93	04/01/33	\$21,200,000	3.61%	US Bank	BAML	Variable	Daily
Series 2008-A Refunding	04/24/08	07/01/35	\$39,000,000	6.63%	Sumitomo	BAML	Variable	Weekly
Series 2011-A-1 Refunding	04/15/11	10/01/37	\$38,760,000	6.59%	B of A	Goldman	Variable	Daily
Series 2011-A-2 Refunding	04/15/11	10/01/37	\$25,840,000	4.40%	B of A	Goldman	Variable	Daily
Series 2009 - A	06/04/09	10/01/41	\$45,000,000	7.65%	US Bank	US Bank	Variable	Daily
Series 2009 - B	06/04/09	10/01/41	\$45,000,000	7.65%	B of A	Goldman	Variable	Daily
2016 COPS	09/01/16	03/01/46	\$101,490,000	17.26%	N/A	N/A	Fixed	Fixed
2010 Build America Taxable Bond	12/16/10	05/01/40	\$175,000,000	29.77%	N/A	N/A	Fixed	Fixed
Series 2016	10/12/16	02/01/46	\$96,605,000	16.43%	N/A	N/A	Fixed	Fixed
Total			\$587,895,000	100.00%				

IRVINE RANCH WATER DISTRICT

SUMMARY OF FIXED & VARIABLE RATE DEBT

March-24

Daily	

Weekly

	GI	ENERAL BO	ND INFORMAT	TION			LETTER OF CREDIT INFORMATION									TRUSTEE INFORMATION				
VARIABLE RATE ISSUES	Issue Date	Maturity Date	Principal Payment Date	Payment Date	Original Par Amount	Remaining Principal	Letter of Credit	Reimbursment Agreement Date		MOODYS	S&P	FITCH	LOC Stated Amount	LOC Fee	Annual LOC Cost	Rmkt Agent	Reset	Rmkt Fees	Annual Cost	Trustee
SERIES 1993	05/19/93	04/01/33	Apr 1	5th Bus. Day	\$38,300,000	\$21,200,000	US BANK	05/07/15	05/01/25	Aa3/VMIG1	AA-/A-1+	N/R	\$21,485,764	0.3000%	\$64,457	BAML	DAILY	0.10%	\$21,200	BANK OF NY
SERIES 2008-A Refunding	04/24/08	07/01/35	Jul 1	5th Bus. Day	\$60,215,000	\$39,000,000	SUMITOMO	04/01/11	05/28/25	A1/P-1	A/A-1	A/F1	\$39,576,986	0.3150%	\$124,668	BAML	WED	0.07%	\$27,300	BANK OF NY
SERIES 2011-A-1 Refunding	04/15/11	10/01/37	Oct 1	1st Bus. Day	\$60,545,000	\$38,760,000	B of A	02/01/24	02/08/27	Aa1/VMIG1	A+/A-1	AAA/F1+	\$39,193,262	0.3200%	\$125,418	Goldman	DAILY	0.07%	\$27,132	BANK OF NY
SERIES 2011-A-2 Refunding	04/15/11	10/01/37	Oct 1	1st Bus. Day	\$40,370,000	\$25,840,000	B of A	02/01/24	02/08/27	Aa1/VMIG1	A+/A-1	AAA/F1+	\$26,128,842	0.3200%	\$83,612	Goldman	DAILY	0.07%	\$18,088	BANK OF NY
SERIES 2009 - A	06/04/09	10/01/41	Oct 1	1st Bus. Day	\$75,000,000	\$45,000,000	US BANK	04/01/11	05/01/25	Aa2/VMIG 1	AA-/A-1+	AA/F1+	\$45,503,014	0.3000%	\$136,509	US Bank	DAILY	0.07%	\$31,500	US BANK
SERIES 2009 - B	06/04/09	10/01/41	Oct 1	1st Bus. Day	\$75,000,000	\$45,000,000	B of A	04/01/11	04/21/25	Aa2/VMIG 1	A/A-1	A1/F1+	\$45,503,014	0.2800%	\$127,408	Goldman	DAILY	0.07%	\$31,500	US BANK

													<u> </u>	(Wt. Avg)			:	(Wt. Avg)		=
FIXED RATE ISSUES																				
2010 GO Build America Taxable Bonds	12/16/10	05/01/40	May (2025)	May/Nov	\$175,000,000	\$175,000,000	N/A	N/A	N/A	Aa1	AAA	NR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	US BANK
2016 COPS	09/01/16	03/01/46	Mar 1	Mar/Sept	\$116,745,000	\$101,490,000	N/A	N/A	N/A	NR	AAA	AAA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	US BANK
SERIES 2016	10/12/16	02/01/46	Feb 1	Feb/Aug	\$103,400,000	\$96,605,000	N/A	N/A	N/A	NR	AAA	AAA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	BANK OF NY

\$217,390,882 0.3045% \$662,073

0.07% \$156,720

\$395,145,000 \$373,095,000 SUB-TOTAL FIXED RATE DEBT

\$744,575,000 \$587,895,000 TOTAL- FIXED & VARIABLE RATE DEBT

\$349,430,000 \$214,800,000 SUB-TOTAL VARIABLE RATE DEBT

Remark	eting Agents		GO VS COP's			
Goldman	109,600,000	51%	GO:	486,405,000	83%	
BAML	60,200,000	28%	COPS:	101,490,000	17%	
US Bank	45,000,000	21%	Total	587,895,000		
	214,800,000					

LOC I	3anks	Breakdown Between Variable & Fixed Rate Mode					
		Daily Issues	175,800,000	30%			
SUMITOMO BANK OF AMERICA	39,000,000 109,600,000	Weekly Issues	39,000,000	7%			
US BANK	66,200,000 214,800,000	Sub-Total	214,800,000				
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Fixed Rate Issues Sub-Total - Fixed	\$373,095,000 373,095,000	63%			
		TOTAL DEBT FIXED & VAR.	587,895,000	100%			

SUMMARY OF DEBT RATES Mar-24

Rmkt Agent Mode Bond Issue Par Amount LOC Bank Reset	GOLDMAN DAILY 2009 - B 45,000,000 BOFA	GOLDMAN DAILY 2011 A-1 38,760,000 BOFA	GOLDMAN DAILY 2011 A-2 25,840,000 BOFA	MERRILI DAILY 1993 21,200,000 US BANK	L LYNCH WEEKLY 2008-A 39,000,000 Sumitomo Wednesday	US BANK DAILY 2009-A 45,000,000 US BANK
3/1/2024	3.40%	3.40%	3.40%	3.75%	2.36%	3.55%
3/2/2024	3.40%	3.40%	3.40%	3.75%	2.36%	3.55%
3/3/2024	3.40%	3.40%	3.40%	3.75%	2.36%	3.55%
3/4/2024	3.30%	3.30%	3.30%	3.20%	2.36%	3.35%
3/5/2024	2.90%	2.90%	2.90%	3.00%	2.36%	2.85%
3/6/2024	3.20%	3.20%	3.20%	3.25%	2.36%	3.10%
3/7/2024	3.30%	3.30%	3.30%	3.35%	2.48%	3.25%
3/8/2024	3.50%	3.50%	3.50%	3.53%	2.48%	3.55%
3/9/2024	3.50%	3.50%	3.50%	3.53%	2.48%	3.55%
3/10/2024	3.50%	3.50%	3.50%	3.53%	2.48%	3.55%
3/11/2024	3.50%	3.50%	3.50%	3.40%	2.48%	3.50%
3/12/2024	3.10%	3.10%	3.10%	3.05%	2.48%	3.30%
3/13/2024	3.10%	3.10%	3.10%	2.95%	2.48%	3.05%
3/14/2024	3.10%	3.10%	3.10%	2.90%	2.54%	3.05%
3/15/2024	3.05%	3.05%	3.05%	2.77%	2.54%	3.00%
3/16/2024	3.05%	3.05%	3.05%	2.77%	2.54%	3.00%
3/17/2024	3.05%	3.05%	3.05%	2.77%	2.54%	3.00%
3/18/2024	2.85%	2.85%	2.85%	2.62%	2.54%	2.85%
3/19/2024	2.75%	2.75%	2.75%	2.42%	2.54%	2.75%
3/20/2024	2.75%	2.75%	2.75%	2.50%	2.54%	2.70%
3/21/2024	2.75%	2.75%	2.75%	2.65%	2.61%	2.75%
3/22/2024	3.05%	3.05%	3.05%	3.15%	2.61%	3.05%
3/23/2024	3.05%	3.05%	3.05%	3.15%	2.61%	3.05%
3/24/2024	3.05%	3.05%	3.05%	3.15%	2.61%	3.05%
3/25/2024	3.15%	3.15%	3.15%	3.32%	2.61%	3.25%
3/26/2024	3.45%	3.45%	3.45%	3.48%	2.61%	3.35%
3/27/2024	3.75%	3.75%	3.75%	3.73%	2.61%	3.70%
3/28/2024	4.35%	4.35%	4.35%	4.23%	2.85%	4.20%
3/29/2024	4.35%	4.35%	4.35%	4.23%	2.85%	4.20%
3/30/2024	4.35%	4.35%	4.35%	4.23%	2.85%	4.20%
3/31/2024	4.35%	4.35% 3.33%	4.35% 3.33%	4.23% 3.30%	2.85% 2.55%	4.20% 3.32%
Avg Interest Rates	3.33%					
Rmkt Fee	0.07%	0.07%	0.07%	0.10%	0.07%	0.07%
LOC Fee	0.28%	0.32%	0.32%	0.30%	0.32%	0.30%
All-In Rate	3.68%	3.72%	3.72%	3.70%	2.93%	3.69%
Par Amount		109,600,000		[60,20	0,000	45,000,000

	Percent of	Par	Weighted All-In		Base Rate
Interest Rate Mode	Total Variable Rate Debt	Outstanding	Average Rate		Average
Daily	81.84%	175,800,000	3.70%		3.33%
Weekly	18.16%	39,000,000	2.93%		2.55%
	100.00%	\$214,800,000	3.56%		3.19%
Fixed					
COPS 2016	27.20%	101,490,000	2.90%		
BABS 2010	46.90%	175,000,000	4.44%	(1)	
SERIES 2016	25.89%	96,605,000	3.32%		
	100.00%	\$373,095,000	3.73%	<u></u>	

⁽¹⁾ Rate adjusted up from 4.35% as a result of sequestration reducing BAB's subsidy by 5.7%

Note: This page is intentionally left blank.

Exhibit "C"

Irvine Ranch Water District Interest Rate Swap Summary March 2024

	Prior Mo.	Current Mo.	12-Mo Avg
LIBOR Flbk Avg %	5.44%	5.44%	5.34%

		Current	Fiscal Year A	Active Swaps						Cash I	Flow	(Since 3/07)	Mark to	Market
Effective Date	Maturity Date	Years to Maturity	Counter Party	Notional Amt	Туре	Base Index	Fixed Rate	Prio	or Month	Current Month	Fiscal YTD	Cumulative Net Accrual	Current Mark to Market	Notional Difference
	Fixed Payer S	Swaps - By E	ffective Date					_						
3/10/200	7 3/10/2029	4.9	ML	30,000,000	FXP	LIBOR	5.687%		(5,974)	(6,140)	(56,467)	(21,979,437)	27,863,379	(2,136,621)
3/10/200	7 3/10/2029	4.9	CG	30,000,000	FXP	LIBOR	5.687%		(5,974)	(6,140)	(56,260)	(21,979,230)	27,865,797	(2,134,203)
Totals/Weighted A	vgs	4.9	_	\$ 60,000,000	•		5.687%	\$	(11,948)	\$ (12,280)	\$ (112,727)	\$ (43,958,666)	\$ 55,729,176	\$ (4,270,824)
Total Current Ye Active Swaps	ar			\$ 60,000,000				\$	(11,948)	\$ (12.280)	\$ (112,727)	\$ (43,958,666)	\$ 55,729,176	\$ (4,270,824)

Current Fiscal Year Terminated Swaps										
	Maturity		Counter			Base				
Effective Date	Date		Party	Notional Amt	Type	Index	Fixed Rate			

Current Fiscal Year - Total Swaps

Cash Flow								
Prior	Current		Cumulative					
Month	Month	Fiscal YTD	Net Accrual					

Mark to Market					
Current Mark to	Notional				
Market	Difference				

Total Current Year Terminated Swaps

\$ -

Cash Flow
Prior Current Cumulative

Fiscal YTD

Net Accrual

Mark to Market

Current Mark to Notional

Market Difference

Total Current Year Active & Terminated Swaps

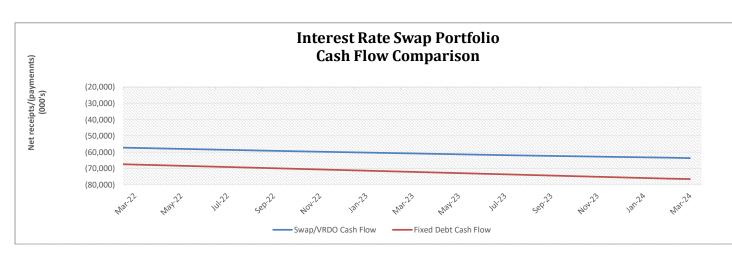
\$ 60,000,000

\$ (11,948) \$ (12,280) \$ (112,727) \$ (43,958,666)

Month

Month

55,729,176 \$ (4,270,824)



Cash Flow Comparison
Synthetic Fixed vs. Fixed Rate Debt

Cash Flow to Date \$63,653,046

Synthetic Fixed =

Fixed Rate = \$76,562,164

Assumptions:

- Fixed rate debt issued at 4.93% in Mar-07 (estimated TE rate Bloomberg)
- 'Synthetic' includes swap cash flow + interest + fees to date

Note: This page is intentionally left blank.

Exhibit "D"

IRVINE RANCH WATER DISTRICT AP DISBURSEMENTS AND VOIDS FOR MARCH 2024

CHECK OR	PAYMENT		PAYMENT		
ELECTRONIC #	DATE	SUPPLIERS	AMOUNT	PAYMENT METHOD	STATUS
441442	7-Mar-24	11:11 SYSTEMS INC.	14,092.79	IRWD Wells Fargo Check No Print	Reconciled
441443 441444	7-Mar-24 7-Mar-24	8X8 INC ACCUSTANDARD INC	13,742.71 236.48	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
441445	7-Mar-24	ADS CORP.	2,700.00	IRWD Wells Fargo Check No Print	Reconciled
441446	7-Mar-24	AGILENT TECHNOLOGIES, INC.	2,500.95	IRWD Wells Fargo Check No Print	Reconciled
441447	7-Mar-24	AIRGAS, INC.	1,461.69	IRWD Wells Fargo Check No Print	Reconciled
441448	7-Mar-24	AM CONSERVATION GROUP, INC.	3,594.07	IRWD Wells Fargo Check No Print	Reconciled
441449	7-Mar-24	AMERICAN WATER WORKS ASSOC	12,315.00	IRWD Wells Fargo Check No Print	Reconciled
441450	7-Mar-24	ANIXTER INC	69,859.71	IRWD Wells Fargo Check No Print	Reconciled
441451 441452	7-Mar-24 7-Mar-24	APCO GRAPHICS INC APPLIED INDUSTRIAL TECHNOLOGIES - CA LLC	298.20 4,128.95	IRWD Wells Fargo Check No Print	Reconciled Reconciled
441452	7-Mar-24 7-Mar-24	AQUA-METRIC SALES COMPANY	4,128.95 1,827.49	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled
441454	7-Mar-24	AT&T CORP	62.43	IRWD Wells Fargo Check No Print	Reconciled
441455	7-Mar-24	AT&T CORP	4,485.87	IRWD Wells Fargo Check No Print	Reconciled
441456	7-Mar-24	AT&T MOBILITY	95.47	IRWD Wells Fargo Check No Print	Reconciled
441457	7-Mar-24	ARAKELIAN ENTERPRISES, INC.	9,011.55	IRWD Wells Fargo Check No Print	Reconciled
441458	7-Mar-24	AUTOZONE PARTS, INC.	406.59	IRWD Wells Fargo Check No Print	Reconciled
441459 441460	7-Mar-24 7-Mar-24	BADGER METER INC.	3,802.62 531.58	IRWD Wells Fargo Check No Print	Reconciled Reconciled
441461	7-Mar-24 7-Mar-24	BATTERIES PLUS AND BATTERIES PLUS BULBS BAVCO BACKFLOW APPARATUS & VALVE COMPANY	98.46	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled
441462	7-Mar-24	BIOTAGE LLC	138.17	IRWD Wells Fargo Check No Print	Reconciled
441463	7-Mar-24	BIRMINGHAM FASTENER & SUPPLY, INCORPORATED	1,920.55	IRWD Wells Fargo Check No Print	Reconciled
441464	7-Mar-24	BORCHARD SURVEYING & MAPPING, INC.	1,902.50	IRWD Wells Fargo Check No Print	Reconciled
441465	7-Mar-24	BPS SUPPLY GROUP	658.15	IRWD Wells Fargo Check No Print	Reconciled
441466	7-Mar-24	C WELLS PIPELINE MATERIALS INC	12,195.15	IRWD Wells Fargo Check No Print	Reconciled
441467	7-Mar-24	CANON SOLUTIONS AMERICA, INC	885.78	IRWD Wells Fargo Check No Print	Reconciled
441468 441469	7-Mar-24 7-Mar-24	CHO DESIGN ASSOCIATES, INC CHU, JULIA	2,500.00 412.91	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
441470	7-Mar-24	CITY OF ORANGE	229.55	IRWD Wells Fargo Check No Print	Reconciled
441471	7-Mar-24	CITY OF SANTA ANA	608.72	IRWD Wells Fargo Check No Print	Reconciled
441472	7-Mar-24	CLA-VAL COMPANY	27,320.10	IRWD Wells Fargo Check No Print	Reconciled
441473	7-Mar-24	CLEAN ENERGY	9,114.89	IRWD Wells Fargo Check No Print	Reconciled
441474	7-Mar-24	COAST PLUMBING HEATING AND AIR, INC	639.00	IRWD Wells Fargo Check No Print	Reconciled
441475	7-Mar-24	COLE-PARMER INSTRUMENT CO	1,906.79	IRWD Wells Fargo Check No Print	Reconciled
441476	7-Mar-24 7-Mar-24	CORE & MAIN LP COUNTY OF ORANGE	3,920.48	IRWD Wells Fargo Check No Print	Reconciled Reconciled
441477 441478	7-Mar-24 7-Mar-24	COX COMMUNICATIONS, INC.	30.00 290.97	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled
441479	7-Mar-24	CURATIVE I.T. LLC	2,297.31	IRWD Wells Fargo Check No Print	Reconciled
441480	7-Mar-24	DABIC, CINDY	67.11	IRWD Wells Fargo Check No Print	Reconciled
441481	7-Mar-24	DAIOHS USA INCORPORATED	1,137.52	IRWD Wells Fargo Check No Print	Reconciled
441482	7-Mar-24	DBAC INC	1,193.97	IRWD Wells Fargo Check No Print	Reconciled
441483	7-Mar-24	DCS MANAGEMENT LLC	563.06	IRWD Wells Fargo Check No Print	Reconciled
441484	7-Mar-24 7-Mar-24	DE FAZIO, JOHN DELL MARKETING LP	515.24 313,987.88	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
441485 441486	7-Mar-24	DSD - BUILDING WORX, INC.	1,716.74	IRWD Wells Fargo Check No Print	Negotiable
441487	7-Mar-24	DWYER INSTRUMENTS INC	2,510.41	IRWD Wells Fargo Check No Print	Reconciled
441488	7-Mar-24	E.J. MEYER COMPANY	2,823.75	IRWD Wells Fargo Check No Print	Reconciled
441489	7-Mar-24	EDGE FALL PROTECTION	13,712.65	IRWD Wells Fargo Check No Print	Reconciled
441490	7-Mar-24	EMD MILLIPORE CORP.	5,801.76	IRWD Wells Fargo Check No Print	Reconciled
441491	7-Mar-24	ENVIRONMENTAL EXPRESS INC	3,679.73	IRWD Wells Fargo Check No Print	Reconciled
441492 441493	7-Mar-24 7-Mar-24	FASTBLUE COMMUNICATIONS INC. FISHER SCIENTIFIC COMPANY LLC	1,988.72 5,755.24	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
441494	7-Mar-24	FRONTIER CALIFORNIA INC.	301.12	IRWD Wells Fargo Check No Print	Reconciled
441495	7-Mar-24	GARY BALE REDI-MIX CONCRETE, INC.	1,157.94	IRWD Wells Fargo Check No Print	Reconciled
441496	7-Mar-24	GLOBAL TEST SUPPLY, LLC	408.43	IRWD Wells Fargo Check No Print	Reconciled
441497	7-Mar-24	GOFORTH & MARTI	12,747.16	IRWD Wells Fargo Check No Print	Reconciled
441498	7-Mar-24	GRAINGER	7,323.20	IRWD Wells Fargo Check No Print	Reconciled
441499	7-Mar-24	HDR ENGINEERING INC	6,886.00	IRWD Wells Fargo Check No Print	Reconciled
441500 441501	7-Mar-24 7-Mar-24	HERC RENTALS INC. HI-LINE INC	2,236.51 3,259.33	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
441501	7-Mar-24 7-Mar-24	HOME DEPOT USA INC	782.88	IRWD Wells Fargo Check No Print	Reconciled
441503	7-Mar-24	HOME DEPOT USA INC	243.66	IRWD Wells Fargo Check No Print	Reconciled
441504	7-Mar-24	IMPERIAL SPRINKLER SUPPLY, INC.	83.63	IRWD Wells Fargo Check No Print	Reconciled
441505	7-Mar-24	INFOSEND, INC.	20,610.74	IRWD Wells Fargo Check No Print	Reconciled
441506	7-Mar-24	INNOVATIVE CONSTRUCTION SOLUTIONS	392,432.95	IRWD Wells Fargo Check No Print	Reconciled
441507	7-Mar-24	INTERNATIONAL E-Z UP, INC.	2,040.19	IRWD Wells Fargo Check No Print	Reconciled
441508 441509	7-Mar-24 7-Mar-24	IRIS GROUP HOLDINGS LLC IRVINE COMMUNITY DEVELOPMENT COMPANY LLC	1,539.90 30,210.00	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Negotiable
441008	/ -i*iai -24	MANAE COMMONANT DEVELOPMENT COMPAINT LLC	30,210.00	HIVED WELLS FAIRD CHECK IND PHILL	Megorianie

D - 1 Page 1 of 14

CHECK OR	PAYMENT		PAYMENT		
ELECTRONIC #	DATE	SUPPLIERS	AMOUNT	PAYMENT METHOD	STATUS
441510	7-Mar-24	IRVINE UNIFIED SCHOOL DISTRICT	14.95	IRWD Wells Fargo Check No Print	Negotiable
441511	7-Mar-24	JAMISON ENGINEERING CONTRACTORS, INC.	6,150.00	IRWD Wells Fargo Check No Print	Reconciled
441512	7-Mar-24	KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES	7,120.00	IRWD Wells Fargo Check No Print	Reconciled
441513	7-Mar-24	KIMBALL MIDWEST	3,379.28	IRWD Wells Fargo Check No Print	Reconciled
441514	7-Mar-24	LEE, ROMY	392.13	IRWD Wells Fargo Check No Print	Reconciled
441515	7-Mar-24	LEIGHTON CONSULTING, INC.	7,084.90 374.70	IRWD Wells Fargo Check No Print	Reconciled
441516 441517	7-Mar-24 7-Mar-24	LIFECOM, INC. LILLESTRAND LEADERSHIP CONSULTING, INC.	10,375.00	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
441518	7-Mar-24	LINDE GAS & EQUIPMENT INC.	203.17	IRWD Wells Fargo Check No Print	Reconciled
441519	7-Mar-24	LOPEZ, ANDREA	22.14	IRWD Wells Fargo Check No Print	Negotiable
441520	7-Mar-24	MARK THOMAS & COMPANY, INC.	3,716.45	IRWD Wells Fargo Check No Print	Reconciled
441521	7-Mar-24	MARK THOMAS & COMPANY, INC.	20,195.03	IRWD Wells Fargo Check No Print	Reconciled
441522	7-Mar-24	MC FADDEN-DALE INDUSTRIAL	2,202.37	IRWD Wells Fargo Check No Print	Reconciled
441523	7-Mar-24	MC MASTER CARR SUPPLY CO	134.75	IRWD Wells Fargo Check No Print	Reconciled
441524	7-Mar-24	MORSCO SUPPLY, LLC	105.29	IRWD Wells Fargo Check No Print	Reconciled
441525 441526	7-Mar-24 7-Mar-24	MSA SAFETY INCORPORATED MSC INDUSTRIAL SUPPLY CO	541.52 1,922.23	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
441527	7-Mar-24	NATIONAL READY MIXED CONCRETE SALES, LLC	1,579.21	IRWD Wells Fargo Check No Print	Reconciled
441528	7-Mar-24	NATIONAL SPECIALITY ALLOYS LLC	2,018.16	IRWD Wells Fargo Check No Print	Reconciled
441529	7-Mar-24	NEW DIMENSION GENERAL CONSTRUCTION, INC.	12,049.00	IRWD Wells Fargo Check No Print	Reconciled
441530	7-Mar-24	NEWTERRA CORPORATION, INC	22,589.79	IRWD Wells Fargo Check No Print	Reconciled
441531	7-Mar-24	NINYO & MOORE	8,340.25	IRWD Wells Fargo Check No Print	Reconciled
441532	7-Mar-24	NMG GEOTECHNICAL INC	8,433.70	IRWD Wells Fargo Check No Print	Reconciled
441533	7-Mar-24	NOVACOASTINC	8,031.25	IRWD Wells Fargo Check No Print	Reconciled
441534	7-Mar-24	ONESOURCE DISTRIBUTORS LLC	16,763.19	IRWD Wells Fargo Check No Print	Reconciled
441535	7-Mar-24	ORACLE AMERICA, INC.	252,170.50	IRWD Wells Fargo Check No Print	Reconciled
441536	7-Mar-24	OSTS, INC	15,070.00	IRWD Wells Fargo Check No Print	Reconciled
441537 441538	7-Mar-24 7-Mar-24	PACIFIC HYDROTECH CORPORATION PACIFIC HYDROTECH CORPORATION	341,494.50 15,242.74	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
441539	7-Mar-24	PACIFIC HYDROTECH CORPORATION PACIFIC HYDROTECH CORPORATION	2,730.66	IRWD Wells Fargo Check No Print	Reconciled
441540	7-Mar-24	PARADA PAINTING INC	300.00	IRWD Wells Fargo Check No Print	Reconciled
441541	7-Mar-24	PARTNERS IN CONTROL, INC.	6,380.00	IRWD Wells Fargo Check No Print	Reconciled
441542	7-Mar-24	PENN ARCHIVE SERVICES	93.76	IRWD Wells Fargo Check No Print	Reconciled
441543	7-Mar-24	PILAR ONATE	5,800.00	IRWD Wells Fargo Check No Print	Reconciled
441544	7-Mar-24	QUADIENT LEASING USA, INC.	2,131.24	IRWD Wells Fargo Check No Print	Reconciled
441545	7-Mar-24	R C FOSTER CORPORATION	249,751.70	IRWD Wells Fargo Check No Print	Reconciled
441546	7-Mar-24	RENTOKIL NORTH AMERICA, INC	24,643.35	IRWD Wells Fargo Check No Print	Reconciled
441547 441548	7-Mar-24 7-Mar-24	ROBERT HALF INC. ROBINS BORGHEI LLP	26,205.16 78.00	IRWD Wells Fargo Check No Print	Reconciled Reconciled
441549	7-Mar-24 7-Mar-24	ROSS, MEGAN	90.46	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled
441550	7-Mar-24	RS AMERICAS, INC.	549.75	IRWD Wells Fargo Check No Print	Reconciled
441551	7-Mar-24	SAFETY CENTER INCORPORATED	5,580.00	IRWD Wells Fargo Check No Print	Reconciled
441552	7-Mar-24	SANDOVAL, JOSHUA	16.61	IRWD Wells Fargo Check No Print	Negotiable
441553	7-Mar-24	SANTA MARGARITA FORD	21.22	IRWD Wells Fargo Check No Print	Reconciled
441554	7-Mar-24	SHAMROCK SUPPLY CO INC	676.83	IRWD Wells Fargo Check No Print	Reconciled
441555	7-Mar-24	SHOETERIA	169.70	IRWD Wells Fargo Check No Print	Reconciled
441556	7-Mar-24	SITMATIC	485.07	IRWD Wells Fargo Check No Print	Reconciled
441557 441558	7-Mar-24 7-Mar-24	SOUTH COAST WATER CO. SOUTHERN CALIFORNIA EDISON COMPANY	80.00 287,747.58	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
441559	7-Mar-24 7-Mar-24	SOUTHERN CALIFORNIA SECURITY CENTERS, INC.	190.97	IRWD Wells Fargo Check No Print	Reconciled
441560	7-Mar-24	SPARKLETTS	157.07	IRWD Wells Fargo Check No Print	Reconciled
441561	7-Mar-24	STANTEC CONSULTING SERVICES INC.	16,166.50	IRWD Wells Fargo Check No Print	Reconciled
441562	7-Mar-24	STETSON ENGINEERS INC.	610.00	IRWD Wells Fargo Check No Print	Reconciled
441563	7-Mar-24	STICE COMPANY, INC.	1,465.05	IRWD Wells Fargo Check No Print	Reconciled
441564	7-Mar-24	STREAKWAVE WIRELESS, INC.	1,001.25	IRWD Wells Fargo Check No Print	Reconciled
441565	7-Mar-24	TALLEY INC	3,887.24	IRWD Wells Fargo Check No Print	Reconciled
441566	7-Mar-24	TANKVISIONS, INC	30.00	IRWD Wells Fargo Check No Print	Reconciled
441567	7-Mar-24	THERMO FISHER SCIENTIFIC (ASHEVILLE) LLC	1,881.74	IRWD Wells Fargo Check No Print	Reconciled
441568 441569	7-Mar-24	TK ELEVATOR CORPORATION TOWNSEND, DAVID	246.37 472.60	IRWD Wells Fargo Check No Print	Reconciled Reconciled
441570	7-Mar-24 7-Mar-24	TRI POINTE HOMES, INC.	472.60 241.47	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Negotiable
441571	7-Mar-24	TRIPAC MARKETING INC	663.64	IRWD Wells Fargo Check No Print	Reconciled
441572	7-Mar-24	ULINE INC	1,772.92	IRWD Wells Fargo Check No Print	Reconciled
441573	7-Mar-24	UNITED PARCEL SERVICE INC	140.95	IRWD Wells Fargo Check No Print	Reconciled
441574	7-Mar-24	UNIVAR SOLUTIONS USA INC.	1,105.52	IRWD Wells Fargo Check No Print	Reconciled
441575	7-Mar-24	USA BLUEBOOK	1,332.59	IRWD Wells Fargo Check No Print	Reconciled
441576	7-Mar-24	VERIZON WIRELESS SERVICES LLC	5,718.41	IRWD Wells Fargo Check No Print	Reconciled
441577	7-Mar-24	VILLA PARK LANDSCAPE	28,470.00	IRWD Wells Fargo Check No Print	Reconciled

- 2 Page 2 of 14

CHECK OR	PAYMENT		PAYMENT		
ELECTRONIC #	DATE	SUPPLIERS	AMOUNT	PAYMENT METHOD	STATUS
441578	7-Mar-24	VULCAN MATERIALS COMPANY	4,267.51	IRWD Wells Fargo Check No Print	Reconciled
441579	7-Mar-24	WARMINGTON HOMES	111.98	IRWD Wells Fargo Check No Print	Negotiable
441580	7-Mar-24	WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.	9,952.31	IRWD Wells Fargo Check No Print	Reconciled
441581	7-Mar-24	WAXIE'S ENTERPRISES, INC	1,920.24	IRWD Wells Fargo Check No Print	Reconciled
441582	7-Mar-24	WEST COAST SAND & GRAVEL INC.	3,688.24	IRWD Wells Fargo Check No Print	Reconciled
441583	7-Mar-24	WEST YOST & ASSOCIATES, INC.	396.00	IRWD Wells Fargo Check No Print	Reconciled
441584	7-Mar-24	ZHENGCHAO NIU	33,665.45	IRWD Wells Fargo Check No Print	Reconciled
441585 441586	13-Mar-24 14-Mar-24	FERREIRA CONSTRUCTION COMPANY, INC.	10,454.45 18,255.00	IRWD Wells Fargo Check No Print	Reconciled Reconciled
441587		ABERNETHY SCHWARTZ PARTNERS, LLC	360.00	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled
441588	14-Mar-24		108.24	IRWD Wells Fargo Check No Print	Negotiable
441589	14-Mar-24	ACCELERATED TECHNOLOGY LABORATORIES, LLC	8,649.05	IRWD Wells Fargo Check No Print	Reconciled
441590	14-Mar-24	AIRGAS, INC.	2,161.82	IRWD Wells Fargo Check No Print	Reconciled
441591	14-Mar-24	ANDERSON, JONI	93.88	IRWD Wells Fargo Check No Print	Reconciled
441592	14-Mar-24	AQUA WAVE SWIM SCHOOL	25.00	IRWD Wells Fargo Check No Print	Negotiable
441593		AQUA-METRIC SALES COMPANY	11,914.39	IRWD Wells Fargo Check No Print	Reconciled
441594		ARCADIS U.S., INC.	26,400.00	IRWD Wells Fargo Check No Print	Reconciled
441595		AT&T CORP	1,571.64	IRWD Wells Fargo Check No Print	Reconciled
441596 441597		AT&T CORP AT&T CORP	1,049.44 146.52	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
441598		AZTEC TECHNOLOGY CORPORATION	969.76	IRWD Wells Fargo Check No Print	Reconciled
441599	14-Mar-24	BAVCO BACKFLOW APPARATUS & VALVE COMPANY	121.10	IRWD Wells Fargo Check No Print	Reconciled
441600	14-Mar-24	BEAUCHAMP REALTY INC	67.51	IRWD Wells Fargo Check No Print	Reconciled
441601	14-Mar-24	BERTRAND, JEROME T	30.00	IRWD Wells Fargo Check No Print	Negotiable
441602	14-Mar-24	BOTERASHEVILI, DANI	130.20	IRWD Wells Fargo Check No Print	Negotiable
441603	14-Mar-24	BPS SUPPLY GROUP	159.10	IRWD Wells Fargo Check No Print	Reconciled
441604	14-Mar-24	BRANDON STRAND	186.30	IRWD Wells Fargo Check No Print	Reconciled
441605	14-Mar-24	BSI AMERICA PROFESSIONAL SERVICES INC.	9,114.30	IRWD Wells Fargo Check No Print	Reconciled
441606			1,060.25	IRWD Wells Fargo Check No Print	Reconciled
441607 441608		CANON SOLUTIONS AMERICA, INC CHEM TECH INTERNATIONAL INC	885.78 51,262.66	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
441609		CITY OF LAKE FOREST	15,000.00	IRWD Wells Fargo Check No Print	Reconciled
441610		CLA-VAL COMPANY	34,317.40	IRWD Wells Fargo Check No Print	Reconciled
441611	14-Mar-24	COUNTY OF ORANGE	3,740.91	IRWD Wells Fargo Check No Print	Reconciled
441612	14-Mar-24	CR & R INCORPORATED	521.65	IRWD Wells Fargo Check No Print	Reconciled
441613	14-Mar-24	DAIOHS USA INCORPORATED	876.46	IRWD Wells Fargo Check No Print	Reconciled
441614		DILYTICS INC	3,000.00	IRWD Wells Fargo Check No Print	Reconciled
441615		DINH, DENISE	58.71	IRWD Wells Fargo Check No Print	Negotiable
441616		DISCOVERY SCIENCE CENTER OF ORANGE COUNTY	23,319.03	IRWD Wells Fargo Check No Print	Reconciled
441617 441618	14-Mar-24 14-Mar-24	DUSTCON SOLUTIONS INC EAST ORANGE COUNTY WATER DISTRICT	15,300.00 2,081.83	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Negotiable Reconciled
441619		ELITE AUTOMOTIVE SERVICE, LLC	337.66	IRWD Wells Fargo Check No Print	Reconciled
441620		EMD MILLIPORE CORP.	7,322.36	IRWD Wells Fargo Check No Print	Reconciled
441621		ENTERPRISE HOLDINGS, INC.	14,585.50	IRWD Wells Fargo Check No Print	Reconciled
441622	14-Mar-24	ENVIRONMENTAL SCIENCE ASSOCIATES	9,154.50	IRWD Wells Fargo Check No Print	Reconciled
441623	14-Mar-24	FARRELL & ASSOCIATES	110.13	IRWD Wells Fargo Check No Print	Reconciled
441624	14-Mar-24		383.49	IRWD Wells Fargo Check No Print	Reconciled
441625		FISHER SCIENTIFIC COMPANY LLC	19,955.96	IRWD Wells Fargo Check No Print	Reconciled
441626		FRONTIER CALIFORNIA INC.	62.82	IRWD Wells Fargo Check No Print	Reconciled
441627 441628		FUSCOE ENGINEERING, INC. GEI CONSULTANTS INC	5,205.25	IRWD Wells Fargo Check No Print	Reconciled
441628		GEORGE HILLS COMPANY, INC.	12,570.00 38.50	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
441630		GOLDEN STAR TECHNOLOGY, INC.	16,275.41	IRWD Wells Fargo Check No Print	Reconciled
441631		GRAINGER	6,284.64	IRWD Wells Fargo Check No Print	Reconciled
441632	14-Mar-24	GRAYBAR ELECTRIC COMPANY	772.34	IRWD Wells Fargo Check No Print	Reconciled
441633	14-Mar-24	GSRP ST SOLAR I LLC	8,276.73	IRWD Wells Fargo Check No Print	Reconciled
441634	14-Mar-24	HI-LINE INC	76.19	IRWD Wells Fargo Check No Print	Reconciled
441635		HOME DEPOT USA INC	236.75	IRWD Wells Fargo Check No Print	Reconciled
441636		HOME DEPOT USA INC	247.61	IRWD Wells Fargo Check No Print	Reconciled
441637		HOWDEN USA COMPANY	351.07	IRWD Wells Fargo Check No Print	Reconciled
441638 441639		HOYA OPTICAL LABS OF AMERICA, INC. INDUSTRIAL METAL SUPPLY CO	211.00 47.52	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
441649		INFOSEND, INC.	38,030.43	IRWD Wells Fargo Check No Print	Reconciled
441641	14-Mar-24		2,808.00	IRWD Wells Fargo Check No Print	Reconciled
441642		IRON MOUNTAIN INFORMATION MANAGEMENT INC	2,821.08	IRWD Wells Fargo Check No Print	Reconciled
441643	14-Mar-24	ISFAHANI, FARZAN	200.35	IRWD Wells Fargo Check No Print	Negotiable
441644	14-Mar-24	JOENS, STACEY	22.46	IRWD Wells Fargo Check No Print	Reconciled
441645	14-Mar-24	JOHNSON-FRANK & ASSOCIATES, INC.	3,800.00	IRWD Wells Fargo Check No Print	Reconciled

- 3 Page 3 of 14

CHECK OR	PAYMENT		PAYMENT		
ELECTRONIC #	DATE	SUPPLIERS	AMOUNT	PAYMENT METHOD	STATUS
441646	14-Mar-24	KIMBALL MIDWEST	1,317.58	IRWD Wells Fargo Check No Print	Reconciled
441647	14-Mar-24	LINDE GAS & EQUIPMENT INC.	30,272.25	IRWD Wells Fargo Check No Print	Reconciled
441648		LINKEDIN CORPORATION	190.83	IRWD Wells Fargo Check No Print	Reconciled
441649		LOZANO SMITH, LLP	252.00	IRWD Wells Fargo Check No Print	Reconciled
441650		LSA ASSOCIATES INC	9,351.05	IRWD Wells Fargo Check No Print	Reconciled
441651 441652	14-Mar-24	MAP COMMUNICATIONS, INC. MC FADDEN-DALE INDUSTRIAL	2,987.50 555.21	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
441653		MC MASTER CARR SUPPLY CO	1,548.03	IRWD Wells Fargo Check No Print	Reconciled
441654		MENDOZA, ARNOLD E	245.15	IRWD Wells Fargo Check No Print	Negotiable
441655	14-Mar-24	METTLER-TOLEDO RAININ, LLC	3,797.80	IRWD Wells Fargo Check No Print	Reconciled
441656	14-Mar-24	MICROSOFT CORPORATION	24.00	IRWD Wells Fargo Check No Print	Reconciled
441657		MORRIS INC	1,341.79	IRWD Wells Fargo Check No Print	Reconciled
441658		MORSCO SUPPLY, LLC	772.27	IRWD Wells Fargo Check No Print	Reconciled
441659	14-Mar-24 14-Mar-24	MUTUAL PROPANE NANOPRECISE SCI CORP	27.00 15,388.78	IRWD Wells Fargo Check No Print	Reconciled
441660 441661	14-Mar-24	NATIONAL OILWELL VARCO, L.P.	5,204.09	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Negotiable Reconciled
441662		NICK BARBIERI TRUCKING, LLC	2,896.44	IRWD Wells Fargo Check No Print	Reconciled
441663	14-Mar-24	NORIMA CONSULTING US	7,400.00	IRWD Wells Fargo Check No Print	Negotiable
441664	14-Mar-24	ODP BUSINESS SOLUTIONS, LLC	193.93	IRWD Wells Fargo Check No Print	Reconciled
441665	14-Mar-24	ONESOURCE DISTRIBUTORS LLC	10,176.90	IRWD Wells Fargo Check No Print	Reconciled
441666		ONYX PAVING COMPANY INC.	22,120.00	IRWD Wells Fargo Check No Print	Reconciled
441667	14-Mar-24		2,407.15	IRWD Wells Fargo Check No Print	Reconciled
441668		PACIFIC EH&S SERVICES, INC. PACIFIC HYDROTECH CORPORATION	9,511.47 88,102.05	IRWD Wells Fargo Check No Print	Reconciled
441669 441670	14-Mar-24	PACIFIC HYDROTECH CORPORATION PACIFIC HYDROTECH CORPORATION	4,636.95	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Negotiable
441671		PACIFIC STAR CHEMICAL, LLC	3,723.72	IRWD Wells Fargo Check No Print	Reconciled
441672	14-Mar-24	PALP INC. DBA EXCEL PAVING COMPANY	184,626.56	IRWD Wells Fargo Check No Print	Reconciled
441673	14-Mar-24	PARK WEST APTS	16,381.87	IRWD Wells Fargo Check No Print	Negotiable
441674	14-Mar-24	PENN ARCHIVE SERVICES	93.76	IRWD Wells Fargo Check No Print	Reconciled
441675	14-Mar-24	PFM FINANCIAL ADVISORS, LLC	61,055.55	IRWD Wells Fargo Check No Print	Reconciled
441676	14-Mar-24	PLUMBERS DEPOT INC.	643.70	IRWD Wells Fargo Check No Print	Negotiable
441677 441678		PRUDENTIAL OVERALL SUPPLY PULTE GROUP	11,934.60 64.50	IRWD Wells Fargo Check No Print	Reconciled
441678	14-Mar-24	QUINCY COMPRESSOR LLC	408.05	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Negotiable Reconciled
441680	14-Mar-24	R.F. MACDONALD CO.	856.62	IRWD Wells Fargo Check No Print	Reconciled
441681		REFRIGERATION SUPPLIES DISTRIBUTOR	2,202.71	IRWD Wells Fargo Check No Print	Reconciled
441682	14-Mar-24	RENTOKIL NORTH AMERICA, INC	1,132.05	IRWD Wells Fargo Check No Print	Reconciled
441683	14-Mar-24	RESOLUTE CONTRACTORS, INC	1,393.66	IRWD Wells Fargo Check No Print	Reconciled
441684	14-Mar-24	ROBERT HALF INC.	19,814.83	IRWD Wells Fargo Check No Print	Reconciled
441685	14-Mar-24	RODNEY HARMSWORTH ASSOCIATES, INC.	10,193.75	IRWD Wells Fargo Check No Print	Reconciled
441686	14-Mar-24	RONEY, JENNY LAUREN ROSEMOUNT INC.	250.00	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled
441687 441688	14-Mar-24	SANTA MARGARITA FORD	6,801.84 1,744.20	IRWD Wells Fargo Check No Print	Reconciled Reconciled
441689		SCA OF CA, LLC	2,130.00	IRWD Wells Fargo Check No Print	Reconciled
441690		SCHINDLER ELEVATOR CORPORATION	306.90	IRWD Wells Fargo Check No Print	Reconciled
441691		SERRANO WATER DISTRICT	5,622.82	IRWD Wells Fargo Check No Print	Reconciled
441692	14-Mar-24	SHIMANO AMERICAN CORP	4,241.31	IRWD Wells Fargo Check No Print	Reconciled
441693		SHIMMICK CONSTRUCTION INC.	87,915.85	IRWD Wells Fargo Check No Print	Reconciled
441694		SIMS TREE HEALTH SPECIALIST, INC	6,460.00	IRWD Wells Fargo Check No Print	Reconciled
441695		SKORUZ TECHNOLOGIES	5,040.00	IRWD Wells Fargo Check No Print	Reconciled
441696 441697		SOUTH COAST WATER DISTRICT SOUTHERN CALIFORNIA EDISON COMPANY	1,127.67 279,811.44	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
441698		SOUTHERN CALIFORNIA GAS COMPANY	8,810.67	IRWD Wells Fargo Check No Print	Reconciled
441699		STANTEC CONSULTING SERVICES INC.	2,648.00	IRWD Wells Fargo Check No Print	Reconciled
441700	14-Mar-24	STETSON ENGINEERS INC.	9,387.50	IRWD Wells Fargo Check No Print	Reconciled
441701	14-Mar-24	SWAINS ELECTRIC MOTOR SERVICE	8,445.48	IRWD Wells Fargo Check No Print	Negotiable
441702		SYNAGRO-WWT, INC.	42,846.69	IRWD Wells Fargo Check No Print	Reconciled
441703		TAIT ENVIRONMENTAL SERVICES, INC.	3,301.56	IRWD Wells Fargo Check No Print	Reconciled
441704		TESCO CONTROLS, INC.	26,500.00	IRWD Wells Fargo Check No Print	Reconciled
441705 441706		THE BOYD GROUP US INC THE FORGE MEDIA GROUP LLC	556.99 20,300.00	IRWD Wells Fargo Check No Print	Reconciled Reconciled
441706 441707		THE RJ NOBLE COMPANY	20,300.00 1,634.34	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled
441707		THOMAS, MARC	112.19	IRWD Wells Fargo Check No Print	Reconciled
441709		TIERRA VERDE INDUSTRIES	17.24	IRWD Wells Fargo Check No Print	Reconciled
441710		TRUSSELL TECHNOLOGIES, INC.	3,292.50	IRWD Wells Fargo Check No Print	Reconciled
441711	14-Mar-24	UNITED PARCEL SERVICE INC	38.41	IRWD Wells Fargo Check No Print	Reconciled
441712		UNITED SITE SERVICES OF CALIFORNIA INC	1,078.29	IRWD Wells Fargo Check No Print	Reconciled
441713	14-Mar-24	USA WASTE OF CALIFORNIA, INC.	1,237.69	IRWD Wells Fargo Check No Print	Reconciled

CHECK OR	PAYMENT		PAYMENT		
ELECTRONIC #	DATE	SUPPLIERS	AMOUNT	PAYMENT METHOD	STATUS
441714	14-Mar-24	VEOLIA WATER TECHNOLOGIES TREATMENT SOLUTIONS USA INC.	12,117.98	IRWD Wells Fargo Check No Print	Reconciled
441715	14-Mar-24	•	1,429.08	IRWD Wells Fargo Check No Print	Reconciled
441716		WANG, BIN	44.36	IRWD Wells Fargo Check No Print	Reconciled
441717		WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.	1,786.91	IRWD Wells Fargo Check No Print	Reconciled
441718		WEST COAST SAND & GRAVEL INC.	8,681.16	IRWD Wells Fargo Check No Print	Reconciled
441719 441720	14-Mar-24	WESTERN WEATHER GROUP INC WOODBRIDGE PARKWAY	3,475.00 101.12	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
441721		YUNMI MARTIN	7.750.00	IRWD Wells Fargo Check No Print	Reconciled
441722		ZEBRON CONTRACTING INC	30,330.00	IRWD Wells Fargo Check No Print	Reconciled
441723	14-Mar-24	ZION MARKET	1,655.18	IRWD Wells Fargo Check No Print	Negotiable
441724	14-Mar-24	CALIFORNIA BANK & TRUST	40,895.84	IRWD Wells Fargo Check	Reconciled
441725	14-Mar-24		18,686.00	IRWD Wells Fargo Check	Reconciled
441726	14-Mar-24		163.00	IRWD Wells Fargo Check	Reconciled
441727	14-Mar-24	DUDLEY RIDGE WATER DISTRICT	252,092.39	IRWD Wells Fargo Check	Reconciled
441728 441729	14-Mar-24 14-Mar-24		92.00 29.46	IRWD Wells Fargo Check IRWD Wells Fargo Check	Negotiable Reconciled
441730	14-Mar-24		8,281.41	IRWD Wells Fargo Check	Reconciled
441731	14-Mar-24		661.00	IRWD Wells Fargo Check	Reconciled
441732		STATE OF ARKANSAS	1,126.52	IRWD Wells Fargo Check	Reconciled
441733	21-Mar-24	AIR TECHNOLOGY LABORATORIES	781.00	IRWD Wells Fargo Check No Print	Negotiable
441734	21-Mar-24	AIRGAS, INC.	181.70	IRWD Wells Fargo Check No Print	Reconciled
441735	21-Mar-24		969.66	IRWD Wells Fargo Check No Print	Reconciled
441736		ALAN SMITH POOL PLASTERING, INC	1,014.97	IRWD Wells Fargo Check No Print	Reconciled
441737		AMERICAN TRAINCO LLC	2,390.00	IRWD Wells Fargo Check No Print	Negotiable
441738		ASSOCIATED READY MIXED CONCRETE, INC	1,729.53	IRWD Wells Fargo Check No Print	Reconciled
441739 441740		AT&T CORP AT&T CORP	12,266.27 6,657.00	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
441741		AT&T CORP	165.87	IRWD Wells Fargo Check No Print	Negotiable
441742		AUTOZONE PARTS, INC.	936.59	IRWD Wells Fargo Check No Print	Reconciled
441743		AVALOS, ANDRES U	62.73	IRWD Wells Fargo Check No Print	Reconciled
441744	21-Mar-24	BATTERIES PLUS AND BATTERIES PLUS BULBS	65.31	IRWD Wells Fargo Check No Print	Reconciled
441745	21-Mar-24	BAVCO BACKFLOW APPARATUS & VALVE COMPANY	1,443.31	IRWD Wells Fargo Check No Print	Reconciled
441746	21-Mar-24	BIRMINGHAM FASTENER & SUPPLY, INCORPORATED	1,206.82	IRWD Wells Fargo Check No Print	Reconciled
441747	21-Mar-24	BORCHARD SURVEYING & MAPPING, INC.	2,745.00	IRWD Wells Fargo Check No Print	Reconciled
441748	21-Mar-24	•	1,785.00	IRWD Wells Fargo Check No Print	Reconciled
441749 441750		BUENA VISTA WATER STORAGE DISTRICT C WELLS PIPELINE MATERIALS INC	247,500.00 140.07	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Negotiable
441751		C.L. OLSON & ASSOCIATES, INC dba IRVINE WELDING	3,975.97	IRWD Wells Fargo Check No Print	Reconciled
441752		CABCO YELLOW INC.	264.90	IRWD Wells Fargo Check No Print	Reconciled
441753	21-Mar-24	CALPINE CORPORATION	364,733.87	IRWD Wells Fargo Check No Print	Reconciled
441754	21-Mar-24	CANON FINANCIAL SERVICES, INC.	8,944.25	IRWD Wells Fargo Check No Print	Reconciled
441755	21-Mar-24	CHAO, JAMES	5.66	IRWD Wells Fargo Check No Print	Negotiable
441756	21-Mar-24	CITY OF NEWPORT BEACH	26.74	IRWD Wells Fargo Check No Print	Reconciled
441757	21-Mar-24		2,086.69	IRWD Wells Fargo Check No Print	Reconciled
441758	21-Mar-24		51.71	IRWD Wells Fargo Check No Print	Reconciled
441759 441760	21-Mar-24	CITY OF NEWPORT BEACH COEN, SHARON	42.33 4.41	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Negotiable
441761	21-Mar-24	•	3,465.40	IRWD Wells Fargo Check No Print	Reconciled
441762		CORELOGIC INC	606.41	IRWD Wells Fargo Check No Print	Reconciled
441763	21-Mar-24	COUNTY OF ORANGE	9,206.87	IRWD Wells Fargo Check No Print	Reconciled
441764	21-Mar-24	COUNTY OF ORANGE	11,050.00	IRWD Wells Fargo Check No Print	Negotiable
441765	21-Mar-24	COUNTY OF ORANGE	8,050.00	IRWD Wells Fargo Check No Print	Reconciled
441766	21-Mar-24		10,000.00	IRWD Wells Fargo Check No Print	Negotiable
441767	21-Mar-24		3,139.87	IRWD Wells Fargo Check No Print	Reconciled
441768	21-Mar-24	DB INDUSTRIAL SUPPLY CO	1,414.43	IRWD Wells Fargo Check No Print	Reconciled
441769 441770	21-Mar-24	DCS MANAGEMENT LLC DURHAM GEO SLOPE INDICATOR	414.00 953.38	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Negotiable
441770	21-Mar-24	ENEL X ADVISORY SERVICES NORTH AMERICA, INC.	3,000.00	IRWD Wells Fargo Check No Print	Negotiable
441772	21-Mar-24		1,230.00	IRWD Wells Fargo Check No Print	Negotiable
441773	21-Mar-24	•	110.13	IRWD Wells Fargo Check No Print	Reconciled
441774	21-Mar-24		297.87	IRWD Wells Fargo Check No Print	Reconciled
441775	21-Mar-24	FISHER SCIENTIFIC COMPANY LLC	7,253.03	IRWD Wells Fargo Check No Print	Reconciled
441776	21-Mar-24	FRONTIER CALIFORNIA INC.	311.27	IRWD Wells Fargo Check No Print	Negotiable
441777	21-Mar-24		325.96	IRWD Wells Fargo Check No Print	Negotiable
441778		GLADWELL GOVERNMENTAL SERVICES, INC.	350.00	IRWD Wells Fargo Check No Print	Reconciled
441779	21-Mar-24		145.46	IRWD Wells Fargo Check No Print	Negotiable
441780 441781	21-Mar-24		54.99 3,760.09	IRWD Wells Fargo Check No Print	Reconciled Reconciled
441/01	∠1-11a1-24	GRAINGER	3,700.09	IRWD Wells Fargo Check No Print	neconciled

- 5 Page 5 of 14

CHECK OR	PAYMENT		PAYMENT		
ELECTRONIC #	DATE	SUPPLIERS	AMOUNT	PAYMENT METHOD	STATUS
441782	21-Mar-24	H.S.G. PROFESSIONAL WINDOW CLEANERS, LLC	2,377.00	IRWD Wells Fargo Check No Print	Negotiable
441783	21-Mar-24	HACH COMPANY	4,453.34	IRWD Wells Fargo Check No Print	Reconciled
441784		HDR ENGINEERING INC	27,808.00	IRWD Wells Fargo Check No Print	Reconciled
441785		HETRICK, JIM	47.90	IRWD Wells Fargo Check No Print	Negotiable
441786 441787		HI-LINE INC	860.90 220.93	IRWD Wells Fargo Check No Print	Reconciled
441788		HOME DEPOT USA INC HOME DEPOT USA INC	425.07	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
441789	21-Mar-24	INTERNATIONAL ACCREDITATION SERVICE, INC	5,500.00	IRWD Wells Fargo Check No Print	Reconciled
441790		INTERPRO SOLUTIONS, LLC.	1,575.00	IRWD Wells Fargo Check No Print	Negotiable
441791		JUST ENERGY SOLUTIONS INC.	210.05	IRWD Wells Fargo Check No Print	Reconciled
441792	21-Mar-24	JWC ENVIRONMENTAL INC.	7,723.55	IRWD Wells Fargo Check No Print	Reconciled
441793	21-Mar-24	KAN VENTURES, INC	7,750.00	IRWD Wells Fargo Check No Print	Negotiable
441794	21-Mar-24	KONNECKE, SAMANTHA	79.79	IRWD Wells Fargo Check No Print	Reconciled
441795		LANDSEA HOMES	397.99	IRWD Wells Fargo Check No Print	Negotiable
441796		LEARFIELD SUB, LLC	20,000.00	IRWD Wells Fargo Check No Print	Reconciled
441797 441798		LIN, JUIFENG LINDE GAS & EQUIPMENT INC.	103.79 11,489.94	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Negotiable Reconciled
441798		LSA ASSOCIATES INC	3,185.00	IRWD Wells Fargo Check No Print	Reconciled
441800		MARK THOMAS & COMPANY, INC.	7,062.54	IRWD Wells Fargo Check No Print	Reconciled
441801		MC FADDEN-DALE INDUSTRIAL	22.07	IRWD Wells Fargo Check No Print	Reconciled
441802	21-Mar-24	MC GEE, JAMES F	1,063.21	IRWD Wells Fargo Check No Print	Reconciled
441803	21-Mar-24	MC MASTER CARR SUPPLY CO	1,184.59	IRWD Wells Fargo Check No Print	Reconciled
441804	21-Mar-24	MICROSOFT CORPORATION	480.53	IRWD Wells Fargo Check No Print	Reconciled
441805	21-Mar-24	MILES CHEMICAL COMPANY, INC.	711.00	IRWD Wells Fargo Check No Print	Reconciled
441806		MISSION COMMUNICATIONS, LLC	1,198.80	IRWD Wells Fargo Check No Print	Reconciled
441807		MORSCO SUPPLY, LLC	86.20	IRWD Wells Fargo Check No Print	Reconciled
441808	21-Mar-24		1,624.00	IRWD Wells Fargo Check No Print	Reconciled
441809 441810	21-Mar-24 21-Mar-24	MSA SAFETY INCORPORATED NATIONAL ECON CORPORATION	11,141.63 6,500.00	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Negotiable
441810		NETWORK INTEGRATION COMPANY PARTNERS	8,585.39	IRWD Wells Fargo Check No Print	Reconciled
441812		NGAI, DANIEL	441.32	IRWD Wells Fargo Check No Print	Reconciled
441813		NORTHWOOD PARK APTS	85.10	IRWD Wells Fargo Check No Print	Reconciled
441814	21-Mar-24	O'REILLY AUTO ENTERPRISES, LLC	89.58	IRWD Wells Fargo Check No Print	Reconciled
441815	21-Mar-24	OLEN COMMERCIAL REALTY	8,121.20	IRWD Wells Fargo Check No Print	Reconciled
441816	21-Mar-24	ONESOURCE DISTRIBUTORS LLC	50,870.23	IRWD Wells Fargo Check No Print	Reconciled
441817		PACIFIC COAST BOLT CORP	1,394.69	IRWD Wells Fargo Check No Print	Reconciled
441818	21-Mar-24	PACIFIC HYDROTECH CORPORATION	672,464.64	IRWD Wells Fargo Check No Print	Reconciled
441819 441820	21-Mar-24 21-Mar-24	PACIFIC HYDROTECH CORPORATION PINNACLE TOWERS LLC	35,392.88 911.53	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
441821	21-Mar-24		293.25	IRWD Wells Fargo Check No Print	Reconciled
441822	21-Mar-24	QUAIL HILL COMMUNITY (QUHC)	9,807.31	IRWD Wells Fargo Check No Print	Negotiable
441823		R. G. HELMER CO.,INC	4,370.00	IRWD Wells Fargo Check No Print	Reconciled
441824	21-Mar-24	RANCHO MARIPOSA APTS	112.39	IRWD Wells Fargo Check No Print	Reconciled
441825	21-Mar-24	REALTECH CONTROLS, LLC	3,131.25	IRWD Wells Fargo Check No Print	Negotiable
441826	21-Mar-24	RENTOKIL NORTH AMERICA, INC	32,378.75	IRWD Wells Fargo Check No Print	Negotiable
441827	21-Mar-24	ROBERT HALF INC.	5,475.70	IRWD Wells Fargo Check No Print	Reconciled
441828	21-Mar-24	*	160.24	IRWD Wells Fargo Check No Print	Reconciled
441829		ROSEMOUNT INC.	19,275.50	IRWD Wells Fargo Check No Print	Reconciled
441830 441831	21-Mar-24 21-Mar-24	SAFETY-KLEEN SYSTEMS, INC SANTA MARGARITA FORD	296.00 238.68	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
441832		SCA OF CA, LLC	1,420.00	IRWD Wells Fargo Check No Print	Reconciled
441833	21-Mar-24	SCHULER CONSTRUCTORS, INC.	75,792.25	IRWD Wells Fargo Check No Print	Reconciled
441834	21-Mar-24		78,896.74	IRWD Wells Fargo Check No Print	Reconciled
441835	21-Mar-24	SERVERSUPPLY.COM INC	639.90	IRWD Wells Fargo Check No Print	Negotiable
441836	21-Mar-24	SHADY CANYON COMMUNITY ASSN	6,792.19	IRWD Wells Fargo Check No Print	Negotiable
441837	21-Mar-24	SHATSKY, TERRI	149.32	IRWD Wells Fargo Check No Print	Reconciled
441838	21-Mar-24	•	179.23	IRWD Wells Fargo Check No Print	Reconciled
441839	21-Mar-24	SOUTH COAST WATER CO.	95.00	IRWD Wells Fargo Check No Print	Reconciled
441840 441841	21-Mar-24 21-Mar-24	SOUTHERN CALIFORNIA EDISON COMPANY SOUTHERN CALIFORNIA EDISON COMPANY	41,539.11 60.98	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Negotiable
441841 441842		SOUTHERN CALIFORNIA EDISON COMPANY SOUTHERN CALIFORNIA GAS COMPANY	21,311.42	IRWD Wells Fargo Check No Print	Negotiable Reconciled
441843	21-Mar-24		16.16	IRWD Wells Fargo Check No Print	Reconciled
441844	21-Mar-24		2,663.00	IRWD Wells Fargo Check No Print	Reconciled
441845	21-Mar-24		260.00	IRWD Wells Fargo Check No Print	Reconciled
441846	21-Mar-24	SUPERIOR ELECTRIC MOTOR SERVICE, INC.	9,795.67	IRWD Wells Fargo Check No Print	Reconciled
441847	21-Mar-24	TEMPO INDUSTRIES	229.23	IRWD Wells Fargo Check No Print	Negotiable
441848		THE FORGE MEDIA GROUP LLC	20,300.00	IRWD Wells Fargo Check No Print	Reconciled
441849	21-Mar-24	THE PARK AT IRVINE SPECTRUM	448.73	IRWD Wells Fargo Check No Print	Reconciled

- 6 Page 6 of 14

CHECK OR	PAYMENT		PAYMENT		
ELECTRONIC #	DATE	SUPPLIERS	AMOUNT	PAYMENT METHOD	STATUS
441850	21-Mar-24	THE PARK AT IRVINE SPECTRUM	390.40	IRWD Wells Fargo Check No Print	Reconciled
441851	21-Mar-24	TODDS	21.36	IRWD Wells Fargo Check No Print	Negotiable
441852		TOXGUARD FLUID TECHNOLOGIES	952.17	IRWD Wells Fargo Check No Print	Reconciled
441853		TRINH, TUNG	59.65	IRWD Wells Fargo Check No Print	Negotiable
441854		TROPICAL PLAZA NURSERY INC	4,960.00	IRWD Wells Fargo Check No Print	Reconciled
441855 441856	21-Mar-24 21-Mar-24	UNITED PARCEL SERVICE INC VALIN CORPORATION	49.44 1,731.55	IRWD Wells Fargo Check No Print	Reconciled Reconciled
441856		VILLA CORONADO APTS	1,731.55	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled
441858		VISTA PAINT CORPORATION	700.16	IRWD Wells Fargo Check No Print	Reconciled
441859		WANG, CHING YUAN	765.40	IRWD Wells Fargo Check No Print	Reconciled
441860	21-Mar-24	WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.	676.20	IRWD Wells Fargo Check No Print	Reconciled
441861	21-Mar-24	WAXIE'S ENTERPRISES, INC	1,900.99	IRWD Wells Fargo Check No Print	Reconciled
441862		WCT PRODUCTS, INC.	3,869.12	IRWD Wells Fargo Check No Print	Reconciled
441863	21-Mar-24	WEST COAST SAND & GRAVEL INC.	5,509.78	IRWD Wells Fargo Check No Print	Reconciled
441864		WEST YOST & ASSOCIATES, INC.	4,442.77	IRWD Wells Fargo Check No Print	Reconciled
441865 441866	21-Mar-24	ZEBRON CONTRACTING INC ZOOMINFO MIDCO LLC	132,120.00 6,000.00	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
441867		ANTHEM BLUE CROSS	337.32	IRWD Wells Fargo Check	Reconciled
441868	21-Mar-24	SOUTHERN CALIFORNIA EDISON COMPANY	4,121.40	IRWD Wells Fargo Check	Negotiable
441869	28-Mar-24	7HILLSPRODUCTION,LLC	21,700.00	IRWD Wells Fargo Check No Print	Reconciled
441870	28-Mar-24	A G BODY, INC	12,580.59	IRWD Wells Fargo Check No Print	Negotiable
441871	28-Mar-24	ALLEN, JENIFFER	588.23	IRWD Wells Fargo Check No Print	Negotiable
441872		AMETEK BROOKFIELD	425.00	IRWD Wells Fargo Check No Print	Negotiable
441873		AQUATIC BIOASSAY & CONSULTING LABORATORIES, INC.	6,620.00	IRWD Wells Fargo Check No Print	Negotiable
441874		ASHFORD, WALT	143.20	IRWD Wells Fargo Check No Print	Negotiable
441875 441876		AT&T CORP ATLAS INTEGRATED SYSTEMS INC.	196.26 10,253.21	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Negotiable Negotiable
441877		AUTOZONE PARTS, INC.	300.80	IRWD Wells Fargo Check No Print	Negotiable
441878		AVIAT U.S., INC	8,952.95	IRWD Wells Fargo Check No Print	Negotiable
441879	28-Mar-24	BATTERIES PLUS AND BATTERIES PLUS BULBS	3,276.86	IRWD Wells Fargo Check No Print	Negotiable
441880	28-Mar-24	BORCHARD SURVEYING & MAPPING, INC.	12,060.00	IRWD Wells Fargo Check No Print	Negotiable
441881	28-Mar-24	BPS SUPPLY GROUP	1,649.73	IRWD Wells Fargo Check No Print	Negotiable
441882	28-Mar-24	BRIGHTVIEW LANDSCAPE DEVELOPMENT	1,579.04	IRWD Wells Fargo Check No Print	Negotiable
441883	28-Mar-24	BRONSTEIN, KATHY	1,087.32	IRWD Wells Fargo Check No Print	Negotiable
441884 441885		C WELLS PIPELINE MATERIALS INC	8,196.81 26.97	IRWD Wells Fargo Check No Print	Negotiable
441886		CANON SOLUTIONS AMERICA, INC CAVALCADE OF HOMES, INC.	45.88	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Negotiable Negotiable
441887		CHARLES KING COMPANY	26,600.00	IRWD Wells Fargo Check No Print	Negotiable
441888		CITY OF TUSTIN	220.43	IRWD Wells Fargo Check No Print	Negotiable
441889	28-Mar-24	CLA-VAL COMPANY	25,603.60	IRWD Wells Fargo Check No Print	Reconciled
441890	28-Mar-24	CLARKE MOSQUITO CONTROL PRODUCTS, INC.	27,900.68	IRWD Wells Fargo Check No Print	Negotiable
441891		COMMERCIAL DOOR OF ORANGE COUNTY, INC.	771.84	IRWD Wells Fargo Check No Print	Negotiable
441892		COX COMMUNICATIONS, INC.	3,202.01	IRWD Wells Fargo Check No Print	Negotiable
441893		DAVIS FARR LLP	2,700.00	IRWD Wells Fargo Check No Print	Reconciled
441894 441895		DC FROST ASSOCIATES, INC DCS MANAGEMENT LLC	293.74 973.08	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Negotiable Reconciled
441896		DEALERS SERVICE COMPANY, INC	1,232.75	IRWD Wells Fargo Check No Print	Negotiable
441897		DENALI WATER SOLUTIONS LLC	22,055.13	IRWD Wells Fargo Check No Print	Negotiable
441898	28-Mar-24	DG INVESTMENT INTERMEDIATE HOLDINGS 2, INC.	1,140.00	IRWD Wells Fargo Check No Print	Negotiable
441899	28-Mar-24	DIRECTV INC	471.47	IRWD Wells Fargo Check No Print	Negotiable
441900	28-Mar-24	EAGLE AERIAL PHOTOGRAPHY INC	21,457.23	IRWD Wells Fargo Check No Print	Negotiable
441901		EMD MILLIPORE CORP.	6,456.81	IRWD Wells Fargo Check No Print	Negotiable
441902		ENVIRO-CHEM, INC.	2,380.00	IRWD Wells Fargo Check No Print	Negotiable
441903		ENVIRONMENTAL EQUIPMENT SUPPLY	467.23 2,500.00	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Negotiable
441904 441905		FACCOC FILIPINO AMERICAN CHAMBER OF COMMERCE OF ORANGE COUNTY FAN, ZHEYUAN	4.23	IRWD Wells Fargo Check No Print	Negotiable Negotiable
441906		FARRELL & ASSOCIATES	110.13	IRWD Wells Fargo Check No Print	Reconciled
441907	28-Mar-24		498.71	IRWD Wells Fargo Check No Print	Reconciled
441908		FEDEX NATIONAL LTL, INC	1,613.36	IRWD Wells Fargo Check No Print	Negotiable
441909	28-Mar-24	FIRE EXTINGUISHING SAFETY & SERVICE	915.08	IRWD Wells Fargo Check No Print	Negotiable
441910		FISHER SCIENTIFIC COMPANY LLC	3,795.50	IRWD Wells Fargo Check No Print	Reconciled
441911		FRONTIER CALIFORNIA INC.	319.65	IRWD Wells Fargo Check No Print	Negotiable
441912		GARY BALE REDI-MIX CONCRETE, INC.	6,089.23	IRWD Wells Fargo Check No Print	Reconciled
441913 441914		GARZA INDUSTRIES, INC GEIGER BROS	1,680.47 694.83	IRWD Wells Fargo Check No Print	Negotiable
441914 441915		GOVERNMENTJOBS.COM, INC.	12,950.85	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Negotiable Negotiable
441916		GRAINGER	3,322.27	IRWD Wells Fargo Check No Print	Negotiable
441917		GRAYBAR ELECTRIC COMPANY	1,928.31	IRWD Wells Fargo Check No Print	Reconciled
				-	

CHECK OR	PAYMENT		PAYMENT		
ELECTRONIC #	DATE	SUPPLIERS	AMOUNT	PAYMENT METHOD	STATUS
441918	28-Mar-24	GUNTON, GLORIA J	145.04	IRWD Wells Fargo Check No Print	Negotiable
441919	28-Mar-24	HA, TRUNG	42.00	IRWD Wells Fargo Check No Print	Reconciled
441920		HANNA, YOUSSEF	36.03	IRWD Wells Fargo Check No Print	Negotiable
441921	28-Mar-24	·	908.09	IRWD Wells Fargo Check No Print	Negotiable
441922		HI-LINE INC	3.38	IRWD Wells Fargo Check No Print	Negotiable
441923		HOME DEPOTUSAING	110.42	IRWD Wells Fargo Check No Print	Negotiable
441924 441925	28-Mar-24 28-Mar-24	HOME DEPOT USA INC INORGANIC VENTURES INC	794.92 296.42	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Negotiable
441926	28-Mar-24		16.32	IRWD Wells Fargo Check No Print	Negotiable Negotiable
441927	28-Mar-24		79,200.20	IRWD Wells Fargo Check No Print	Negotiable
441928		J & R CONCRETE PRODUCTS, INC.	14,357.69	IRWD Wells Fargo Check No Print	Negotiable
441929		LA HABRA FENCE COMPANY INC	1,977.00	IRWD Wells Fargo Check No Print	Negotiable
441930	28-Mar-24	LAKE FOREST CHAMBER OF COMMERCE INC	1,000.00	IRWD Wells Fargo Check No Print	Negotiable
441931	28-Mar-24	LEE, SUNNY	79.90	IRWD Wells Fargo Check No Print	Negotiable
441932	28-Mar-24	LEIGHTON CONSULTING, INC.	3,647.82	IRWD Wells Fargo Check No Print	Negotiable
441933	28-Mar-24	LIKENS, SHALYCE	85.82	IRWD Wells Fargo Check No Print	Negotiable
441934	28-Mar-24	LINCOLN, DEBRA	26.88	IRWD Wells Fargo Check No Print	Negotiable
441935		LINDE GAS & EQUIPMENT INC.	907.03	IRWD Wells Fargo Check No Print	Negotiable
441936		LUBRICATION ENGINEERS	3,436.90	IRWD Wells Fargo Check No Print	Negotiable
441937		MARX, DANIELLE	54.52	IRWD Wells Fargo Check No Print	Negotiable
441938		MC FADDEN-DALE INDUSTRIAL	157.51	IRWD Wells Fargo Check No Print	Negotiable
441939	28-Mar-24 28-Mar-24	•	3,917.87 805.97	IRWD Wells Fargo Check No Print	Reconciled
441940 441941	28-Mar-24	MSC INDUSTRIAL SUPPLY CO NETWORK INTEGRATION COMPANY PARTNERS	19,325.00	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Negotiable Negotiable
441941	28-Mar-24	NEWAGE INDUSTRIES INC	2,194.27	IRWD Wells Fargo Check No Print	Negotiable
441943	28-Mar-24	OUTSOURCE TECHNICAL LLC	22,315.00	IRWD Wells Fargo Check No Print	Negotiable
441944	28-Mar-24	PARK WEST APTS	145,441.86	IRWD Wells Fargo Check No Print	Negotiable
441945		PLUMBERS DEPOT INC.	24,909.02	IRWD Wells Fargo Check No Print	Negotiable
441946	28-Mar-24	PRESTON ELLIS COMPANY	25.32	IRWD Wells Fargo Check No Print	Negotiable
441947	28-Mar-24	PSOMAS	4,792.50	IRWD Wells Fargo Check No Print	Negotiable
441948	28-Mar-24	R&B AUTOMATION, INC.	2,917.50	IRWD Wells Fargo Check No Print	Negotiable
441949	28-Mar-24	RANCHO ALISAL APTS	4.46	IRWD Wells Fargo Check No Print	Negotiable
441950	28-Mar-24	REAL WATER CONSULTANTS INC.	14,500.00	IRWD Wells Fargo Check No Print	Negotiable
441951	28-Mar-24	REFRIGERATION SUPPLIES DISTRIBUTOR	102.79	IRWD Wells Fargo Check No Print	Reconciled
441952	28-Mar-24	RENTOKIL NORTH AMERICA, INC	100.00	IRWD Wells Fargo Check No Print	Negotiable
441953	28-Mar-24	RICHARD C. SLADE & ASSOCIATES LLC	2,611.70	IRWD Wells Fargo Check No Print	Negotiable
441954 441955	28-Mar-24 28-Mar-24	RICHARD PETRULIO ROBERT HALF INC.	18.30 5,017.89	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Negotiable Reconciled
441956	28-Mar-24	ROBERTS ROOFING INC	1,800.00	IRWD Wells Fargo Check No Print	Negotiable
441957	28-Mar-24	RODNEY HARMSWORTH ASSOCIATES, INC.	10,788.20	IRWD Wells Fargo Check No Print	Negotiable
441958	28-Mar-24	SAN LEON APTS	739.67	IRWD Wells Fargo Check No Print	Negotiable
441959	28-Mar-24	SAND CANYON MEDICAL GROUP	760.00	IRWD Wells Fargo Check No Print	Reconciled
441960	28-Mar-24	SANTA MARGARITA FORD	788.59	IRWD Wells Fargo Check No Print	Reconciled
441961	28-Mar-24	SANTA MARIA APTS	1,584.71	IRWD Wells Fargo Check No Print	Negotiable
441962	28-Mar-24	SANTA ROSA APARTMENTS	2,210.07	IRWD Wells Fargo Check No Print	Negotiable
441963	28-Mar-24	SAOIRSE LLC	4,650.00	IRWD Wells Fargo Check No Print	Negotiable
441964	28-Mar-24	SITEONE LANDSCAPE SUPPLY, LLC	749.12	IRWD Wells Fargo Check No Print	Negotiable
441965	28-Mar-24	SOUTH COAST BOBCAT	883.55	IRWD Wells Fargo Check No Print	Negotiable
441966		SOUTH COAST WATER DISTRICT	385.51	IRWD Wells Fargo Check No Print	Negotiable
441967	28-Mar-24	SOUTHERN CALIFORNIA EDISON COMPANY	358,097.00	IRWD Wells Fargo Check No Print	Negotiable
441968	28-Mar-24		469.62	IRWD Wells Fargo Check No Print	Negotiable
441969 441970	28-Mar-24	SOUTHERN CALIFORNIA SECURITY CENTERS, INC. SPARKLETTS	2,538.25 272.16	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Negotiable
441971	28-Mar-24		628.75	IRWD Wells Fargo Check No Print	Negotiable Negotiable
441972	28-Mar-24		897.02	IRWD Wells Fargo Check No Print	Negotiable
441973	28-Mar-24	STORMS CONSULTING ENGINEERS	1,104.00	IRWD Wells Fargo Check No Print	Negotiable
441974		TAIT ENVIRONMENTAL SERVICES, INC.	1,640.90	IRWD Wells Fargo Check No Print	Negotiable
441975		TEAM MOBILE WEST CORP	6,293.29	IRWD Wells Fargo Check No Print	Negotiable
441976		THE LANDING	109.22	IRWD Wells Fargo Check No Print	Negotiable
441977		THERMO FISHER SCIENTIFIC (ASHEVILLE) LLC	3,855.00	IRWD Wells Fargo Check No Print	Negotiable
441978	28-Mar-24	TIC-IPG-COMMON	40.46	IRWD Wells Fargo Check No Print	Negotiable
441979	28-Mar-24	TIC-OFFICE PROPERTIES	136.88	IRWD Wells Fargo Check No Print	Negotiable
441980		TIC-SPECTRUM OFFICE	133.56	IRWD Wells Fargo Check No Print	Negotiable
441981		TICIC SUB LLC	6,234.91	IRWD Wells Fargo Check No Print	Negotiable
441982		UNITED PARCEL SERVICE INC	32.90	IRWD Wells Fargo Check No Print	Negotiable
441983		UNIVAR SOLUTIONS USA INC.	44,051.70	IRWD Wells Fargo Check No Print	Negotiable
441984		US BANK NAT'L ASSOCIATION NORTH DAKOTA	75,701.16	IRWD Wells Fargo Check No Print	Negotiable
441985	28-Mar-24	USA WASTE OF CALIFORNIA, INC.	3,911.81	IRWD Wells Fargo Check No Print	Negotiable

CHECK OR	PAYMENT		PAYMENT		
ELECTRONIC #	DATE	SUPPLIERS	AMOUNT	PAYMENT METHOD	STATUS
441986	28-Mar-24	VENTURE ONE HOLDINGS, LLC	89.52	IRWD Wells Fargo Check No Print	Negotiable
441987	28-Mar-24	VULCAN INDUSTRIES INC	106,252.28	IRWD Wells Fargo Check No Print	Negotiable
441988	28-Mar-24	WAXIE'S ENTERPRISES, INC	2,981.12	IRWD Wells Fargo Check No Print	Reconciled
441989	28-Mar-24	WCT PRODUCTS, INC.	185.88	IRWD Wells Fargo Check No Print	Negotiable
441990		WEBB, DANIEL	66.03	IRWD Wells Fargo Check No Print	Negotiable
441991		WEST YOST & ASSOCIATES, INC.	17,715.00	IRWD Wells Fargo Check No Print	Negotiable
441992		WESTAIR GASES & EQUIPMENT, INC.	102.36	IRWD Wells Fargo Check No Print	Reconciled
441993 441994	28-Mar-24		3,887.00 22.86	IRWD Wells Fargo Check No Print	Reconciled
441995		YAMASHITA, LISA ZION MARKET	224.55	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Negotiable Negotiable
441996		AMERICAN FAMILY LIFE ASSURANCE COMPANY OF COLUMBUS	1,704.02	IRWD Wells Fargo Check	Reconciled
441997	28-Mar-24		92.00	IRWD Wells Fargo Check	Negotiable
441998		INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47	8,281.41	IRWD Wells Fargo Check	Negotiable
441999	28-Mar-24	ORANGE COUNTY FIRE AUTHORITY	776.00	IRWD Wells Fargo Check	Reconciled
442000	28-Mar-24	PERS LONG TERM CARE	661.00	IRWD Wells Fargo Check	Reconciled
442001	28-Mar-24	STATE OF ARKANSAS	1,126.52	IRWD Wells Fargo Check	Negotiable
SUB-TOTAL IRWD V	WELLS FARGO	CHECK AND IRWD WELLS FARGO CHECK NO PRINT DISBURSEMENTS	7,839,672.48		
1002885		Aguilar, Alan C	14.61	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002886		Almazan, Robert (Chris)	54.27	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002887		Aryan, Stephen Bosley, Kelleen M	1,232.88	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002888 1002889	14-Mar-24	Bronstein, Louis (Lou)	16.99 123.95	IRWD Wells Fargo ACH for Expense Reports IRWD Wells Fargo ACH for Expense Reports	Reconciled Reconciled
1002899	14-Mar-24	Cervantes, Isela J	15.54	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002891	14-Mar-24	•	17.29	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002892	14-Mar-24	Cortez, Brian	113.90	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002893	14-Mar-24	Daniel, Matthew (Matthew)	55.11	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002894	14-Mar-24	Daquial, Dixie	428.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002895	14-Mar-24	De Castro, Earl	32.03	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002896	14-Mar-24	Drew, Michael A	250.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002897	14-Mar-24	•	60.30	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002898	14-Mar-24	Haug, Jack Philip Ryan	65.13	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002899		Hesch, Jessee j	38.78 965.48	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002900 1002901	14-Mar-24	Kanoff, Debbie G (Debbie) Lindsay, Marina D	965.48 37.43	IRWD Wells Fargo ACH for Expense Reports IRWD Wells Fargo ACH for Expense Reports	Reconciled Reconciled
1002901	14-Mar-24	Madding, Joshua	190.54	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002903		Marquez, Jesus	84.96	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002905	14-Mar-24	Pulles, Margaret M (Margaret)	27.43	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002906	14-Mar-24	Ramirez, Miguel	50.38	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002907	14-Mar-24	Rios, Elias L	67.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002908	14-Mar-24	Swift, Ian P (Ian)	250.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002909		Trigg, Tyler	51.49	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002910		Valencia, Reynaldo (Rey)	108.23	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002911	14-Mar-24		58.29	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002912	14-Mar-24	Zamora, Victor A	213.94	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002822 1002823	7-Mar-24 7-Mar-24	Aguilar, Alan C Cariker, Cody J (Cody)	29.22 232.25	IRWD Wells Fargo ACH for Expense Reports IRWD Wells Fargo ACH for Expense Reports	Reconciled Reconciled
1002824	7-Mar-24 7-Mar-24	Compton, Christine A	182.34	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002825	7-Mar-24	Daniel, Matthew (Matthew)	70.22	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002826	7-Mar-24	De Castro, Earl	32.03	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002827	7-Mar-24	Frost, Garrick A (Garrick)	19.03	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002828	7-Mar-24	Garcia, Alejandro (Alex)	274.88	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002829	7-Mar-24	Garibay, Erika Isela	27.20	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002830	7-Mar-24	Giatpaiboon, Scott	10.05	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002831	7-Mar-24	Kanoff, Debbie G (Debbie)	114.04	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002832	7-Mar-24	Koenig, Timothy (Tim)	16.75	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002833	7-Mar-24	Kulick, Michael	158.38	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002834 1002835	7-Mar-24 7-Mar-24	Ludwig, Jason Madding, Joshua	128.64 95.27	IRWD Wells Fargo ACH for Expense Reports IRWD Wells Fargo ACH for Expense Reports	Reconciled Reconciled
1002836	7-Mar-24 7-Mar-24	Martinez, Jose A IV (Jose)	26.10	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002837	7-Mar-24	Martinez, Michael P.	98.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002838	7-Mar-24	Monday, Jason	165.90	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002839	7-Mar-24	Munoz, Ruben	22.78	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002840	7-Mar-24	Nguyen, Jeanny	30.28	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002841	7-Mar-24	Norman, Tammy	161.88	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002842	7-Mar-24	Olivolo, Eric J (Eric)	34.30	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002843	7-Mar-24	Rawlins, Othniel Jr.	58.95	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002844	7-Mar-24	Reed, Megan A	25.86	IRWD Wells Fargo ACH for Expense Reports	Reconciled

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
1002845	7-Mar-24	Richardson, Kyle	58.41	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002846	7-Mar-24	Rios, Elias L	67.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002847	7-Mar-24	Rodriguez, Jimmy	13.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002848	7-Mar-24	Smith, Brianna	18.22	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002849	7-Mar-24	Torres, Nicole	125.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002850	7-Mar-24	Villella, Aaren	100.37	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002952	21-Mar-24	Berry, Wyatt	21.44	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002953	21-Mar-24	Cervantes, Angel	26.80	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002954	21-Mar-24	Coleman, Nicholas (Nick)	82.41	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002955	21-Mar-24	Contreras, Joaquin	85.62	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002956	21-Mar-24	Contreras, Max Albert	17.29	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002957		Estrada, Robert C	173.94	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002958		Grier, Corey	62.16	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002959		Habiger, Steve Jr (Steve)	358.25	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002960		Hall, William P (William)	71.42	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002961		Haug, Jack Philip Ryan	86.84	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002962		Koenig, Timothy (Tim)	16.75	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002963		Kulick, Michael	303.38	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002964		Legesma, Alejandro (Alex)	250.00 33.78	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002965 1002966		Lu, Michael	9.38	IRWD Wells Fargo ACH for Expense Reports IRWD Wells Fargo ACH for Expense Reports	Reconciled Reconciled
1002967		Ludwig, Jason	64.32	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002968		Marquez, Jesus	42.48	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002969		Mendoza, Evelyn	100.50	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002970		Monday, Jason	82.95	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002971		Oldewage, Lars Daniel (Lars)	32.05	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002972		Orozco, Gustavo A (Gus)	54.14	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002973	21-Mar-24	Reed, Megan A	25.86	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002974	21-Mar-24	Rice, Tera L	20.10	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002975	21-Mar-24	Rilloraza, Rhoda F	82.97	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002976	21-Mar-24	Rios, Elias L	67.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002977	21-Mar-24	Santos, Lina	35.92	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002978	21-Mar-24	Scagliotti, Lucas Matthew	29.05	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002979	21-Mar-24	Shapiro, Matthew	116.58	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002980		Smith, Brianna	18.22	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002981		Valencia, Reynaldo (Rey)	176.46	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002982		Villella, Aaren	401.48	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002983		Zamora, Victor A	120.31	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003020		Aguilar, Alan C	43.83	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003021		Cervantes, Angel	26.80	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003022 1003023		Chaney, Michael A (Michael)	20.77	IRWD Wells Fargo ACH for Expense Reports IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003023		Cho, Harry K (Harry) Coleman, Nicholas (Nick)	58.00 61.47	IRWD Wells Fargo ACH for Expense Reports	Reconciled Reconciled
1003024		Compton, Christine A	78.11	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003025		Corral, Edward Jr (Ed)	53.45	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003027		Daniel, Matthew (Matthew)	159.13	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003028		Hernandez, Tony	294.24	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003029		Loukeh, Jacob	53.74	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003030		Madding, Joshua	95.27	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003031		Munoz, Ruben	22.78	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003032	28-Mar-24	Pennington, Jared (Jared)	74.78	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003033	28-Mar-24	Ramirez, Eric	46.36	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003034	28-Mar-24	Ramirez, Miguel	48.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003035	28-Mar-24	Rawlins, Othniel Jr.	60.30	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003036	28-Mar-24	Smithson, Christopher F (Christopher)	780.11	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003037	28-Mar-24	Villella, Aaren	100.37	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1003038		Wilson, Brett	125.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
SUB-TOTAL IRWD V	WELLS FARGO	ACH FOR EXPENSE REPORTS	12,292.66		
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1002851	7-Mar-24	AECOM TECHNICAL SERVICES, INC.	33,077.50	IRWD Wells Fargo ACH	Reconciled
1002852	7-Mar-24	ALEXANDER'S CONTRACT SERVICES, INC.	135,065.96	IRWD Wells Fargo ACH	Reconciled
1002853	7-Mar-24	ALSTON & BIRD LLP	51,770.67	IRWD Wells Fargo ACH	Reconciled
1002854	7-Mar-24	AMAZON CAPITAL SERVICES, INC.	9,160.61	IRWD Wells Fargo ACH	Reconciled
1002855	7-Mar-24	CALIFORNIA BARRICADE RENTAL, INC.	27,451.40	IRWD Wells Fargo ACH	Reconciled
1002856 1002857	7-Mar-24	CENTROID SYSTEMS, INC.	46,500.00	IRWD Wells Fargo ACH	Reconciled
1002857	7-Mar-24 7-Mar-24	CITY OF IRVINE CONSTELLATION NEWENERGY, INC.	1,081.14 17,077.47	IRWD Wells Fargo ACH IRWD Wells Fargo ACH	Reconciled Reconciled
1002859	7-Mar-24 7-Mar-24	DEMARIA ELECTRIC MOTOR SERVICES, INC.	5,373.49	IRWD Wells Fargo ACH	Reconciled
1002033	, riui-24	S.E. W. W. LEEGTING FIGURE OF OUT OUT OF OUT OUT OF OUT	0,070.40	man wells raigo AOII	Hosomoneu

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CHECK OR	PAYMENT		PAYMENT		
ELECTRONIC #	DATE	SUPPLIERS	AMOUNT	PAYMENT METHOD	STATUS
1002860	7-Mar-24	DRAKE TRAFFIC CONTROL SERVICES INC	1,500.00	IRWD Wells Fargo ACH	Reconciled
1002861	7-Mar-24	E.J. MEYER COMPANY	53,651.25	IRWD Wells Fargo ACH	Reconciled
1002862	7-Mar-24	EHS INTERNATIONAL,INC	1,650.00	IRWD Wells Fargo ACH	Reconciled
1002863	7-Mar-24	EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.	4,650.00	IRWD Wells Fargo ACH	Reconciled
1002864	7-Mar-24	FOUGHT, CYNTHIA J.	2,768.70	IRWD Wells Fargo ACH	Reconciled
1002865	7-Mar-24	FUEL EQUIPMENT SERVICES, INC	1,168.41	IRWD Wells Fargo ACH	Reconciled
1002866	7-Mar-24	GM SAGER CONSTRUCTION CO,INC.	178,500.00	IRWD Wells Fargo ACH	Reconciled
1002867	7-Mar-24	HELPMATES STAFFING SERVICES LLC	1,136.00	IRWD Wells Fargo ACH	Reconciled
1002868 1002869	7-Mar-24 7-Mar-24	HILL BROTHERS CHEMICAL COMPANY LANDCARE HOLDINGS, INC.	9,477.60 98,804.40	IRWD Wells Fargo ACH IRWD Wells Fargo ACH	Reconciled Reconciled
1002809	7-Mar-24	MERRIMAC PETROLEUM, INC.	33,264.89	IRWD Wells Fargo ACH	Reconciled
1002870	7-Mar-24	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	796,669.95	IRWD Wells Fargo ACH	Reconciled
1002871	7-Mar-24	NEWPORT WINDOW MAINTENANCE INC	130.00	IRWD Wells Fargo ACH	Reconciled
1002872	7-Mar-24	O.C. SUPERIOR CUSTOM CLEANING	4,732.00	IRWD Wells Fargo ACH	Reconciled
1002874	7-Mar-24	OLIN CORPORATION	33,165.69	IRWD Wells Fargo ACH	Reconciled
1002875	7-Mar-24	OLSON REMCHO LLP	806.00	IRWD Wells Fargo ACH	Reconciled
1002876	7-Mar-24	ORANGE COUNTY AUTO PARTS CO	561.86	IRWD Wells Fargo ACH	Reconciled
1002877	7-Mar-24	ORIGIN CONSULTING LLC	22,737.50	IRWD Wells Fargo ACH	Reconciled
1002878	7-Mar-24	PACIFIC PARTS & CONTROLS INC	1,210.54	IRWD Wells Fargo ACH	Reconciled
1002879	7-Mar-24	PYRO-COMM SYSTEMS INC	985.00	IRWD Wells Fargo ACH	Reconciled
1002880	7-Mar-24	RAM AIR ENGINEERING INC	9,861.45	IRWD Wells Fargo ACH	Reconciled
1002881	7-Mar-24	RED WING SHOE STORE	569.29	IRWD Wells Fargo ACH	Reconciled
1002882	7-Mar-24	RLG ENTERPRISES, INC	1,704.87	IRWD Wells Fargo ACH	Reconciled
1002883	7-Mar-24	SUNSHINE SUPPLY COMPANY, INC.	2,997.61	IRWD Wells Fargo ACH	Reconciled
1002884	7-Mar-24	TETRA TECH, INC	2,345.00	IRWD Wells Fargo ACH	Reconciled
1002913	14-Mar-24	ACE INDUSTRIES, INC.	1,692.81	IRWD Wells Fargo ACH	Reconciled
1002914	14-Mar-24	AECOM TECHNICAL SERVICES, INC.	1,016,182.28	IRWD Wells Fargo ACH	Reconciled
1002915	14-Mar-24	AMAZON CAPITAL SERVICES, INC.	667.99	IRWD Wells Fargo ACH	Reconciled
1002916	14-Mar-24	ARAG NORTH AMERICA, INC.	593.00	IRWD Wells Fargo ACH	Reconciled
1002917 1002918	14-Mar-24	·	23,782.30 8,789.50	IRWD Wells Fargo ACH	Reconciled
1002918	14-Mar-24 14-Mar-24	CAROLLO ENGINEERS, INC CDW GOVERNMENT LLC	649.47	IRWD Wells Fargo ACH IRWD Wells Fargo ACH	Reconciled Reconciled
1002919	14-Mar-24	CENTROID SYSTEMS, INC.	7,084.62	IRWD Wells Fargo ACH	Reconciled
1002921		CITY OF IRVINE	12,546.15	IRWD Wells Fargo ACH	Reconciled
1002922	14-Mar-24	CONSERV CONSTRUCTION INC.	8,218.75	IRWD Wells Fargo ACH	Reconciled
1002923	14-Mar-24		690.00	IRWD Wells Fargo ACH	Reconciled
1002924	14-Mar-24	DRAKE TRAFFIC CONTROL SERVICES INC	1,625.00	IRWD Wells Fargo ACH	Reconciled
1002925	14-Mar-24	ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC.	21,622.50	IRWD Wells Fargo ACH	Reconciled
1002926	14-Mar-24	FIDELITY SECURITY LIFE INSURANCE COMPANY	8,277.38	IRWD Wells Fargo ACH	Reconciled
1002927	14-Mar-24	FOUGHT, CYNTHIA J.	635.36	IRWD Wells Fargo ACH	Reconciled
1002928	14-Mar-24	GANAHL LUMBER CO.	377.72	IRWD Wells Fargo ACH	Reconciled
1002929	14-Mar-24	HAAKER EQUIPMENT COMPANY	280.97	IRWD Wells Fargo ACH	Reconciled
1002930	14-Mar-24	HILL BROTHERS CHEMICAL COMPANY	17,344.03	IRWD Wells Fargo ACH	Reconciled
1002931	14-Mar-24	JCI JONES CHEMICALS INC	14,980.85	IRWD Wells Fargo ACH	Reconciled
1002932	14-Mar-24	LANDCARE HOLDINGS, INC.	64,779.00	IRWD Wells Fargo ACH	Reconciled
1002933		MARK ENTERPRISES TECHNOLOGIES LLC	126,153.79	IRWD Wells Fargo ACH	Reconciled
1002934		MORRISROE, EDWARD	523.27	IRWD Wells Fargo ACH	Reconciled
1002935		MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	35,479.32	IRWD Wells Fargo ACH	Reconciled
1002936		N1 CRITICAL TECHNOLOGIES, INC	5,686.61	IRWD Wells Fargo ACH	Reconciled
1002937	14-Mar-24		29,760.00	IRWD Wells Fargo ACH	Reconciled
1002938		OLIN CORPORATION	112,604.80	IRWD Wells Fargo ACH	Reconciled
1002939	14-Mar-24	ORANGE COUNTY AUTO PARTS CO	288.25 5,520.20	IRWD Wells Fargo ACH	Reconciled
1002940 1002941		PACIFIC PARTS & CONTROLS INC PROBOLSKY RESEARCH LLC	14,375.00	IRWD Wells Fargo ACH IRWD Wells Fargo ACH	Reconciled Reconciled
1002941		RAM AIR ENGINEERING INC	10,655.82	IRWD Wells Fargo ACH	Reconciled
1002942	14-Mar-24	RED WING SHOE STORE	601.44	IRWD Wells Fargo ACH	Reconciled
1002944		RINCON TRUCK CENTER INC.	272.54	IRWD Wells Fargo ACH	Reconciled
1002945		RLG ENTERPRISES, INC	240.59	IRWD Wells Fargo ACH	Reconciled
1002946		SIEMENS INDUSTRY INC	13,844.80	IRWD Wells Fargo ACH	Reconciled
1002947		TETRA TECH, INC	10,067.50	IRWD Wells Fargo ACH	Reconciled
1002948		VSS SALES INC	14,056.36	IRWD Wells Fargo ACH	Reconciled
1002949	14-Mar-24	WATERSMART SOFTWARE INC	16,402.87	IRWD Wells Fargo ACH	Reconciled
1002950	14-Mar-24	WEST COAST SAFETY SUPPLY INC	8,902.75	IRWD Wells Fargo ACH	Reconciled
1002951	14-Mar-24	WESTAMERICA COMMUNICATIONS, INC.	640.00	IRWD Wells Fargo ACH	Reconciled
1002984	21-Mar-24	AECOM TECHNICAL SERVICES, INC.	23,254.00	IRWD Wells Fargo ACH	Reconciled
1002985	21-Mar-24	AMAZON CAPITAL SERVICES, INC.	1,315.61	IRWD Wells Fargo ACH	Reconciled
1002986	21-Mar-24	CALIFORNIA BARRICADE RENTAL, INC.	19,810.50	IRWD Wells Fargo ACH	Reconciled
1002987	21-Mar-24	CAROLLO ENGINEERS, INC	15,340.50	IRWD Wells Fargo ACH	Reconciled

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1002/2009 21-96-24 DIAL CLEAN COMPORATION 2,4111-25 Restrict West Freign ACH Reconciled 2002/2012 22-96-24 DIAL CLEAN COMPORATION 2,4111-25 Reconciled Reconciled 2002/2012 22-96-24 DIAL CLEAN COMPORATION 2,611-20	ELECTRONIC #	DATE	SUPPLIERS	AMOUNT	PAYMENT METHOD	STATUS
1002989 2-14-0-24 DEL REPAIRO, DE CALEPONIA 100-0000 100-0000 100-0000 100-0000 100-0000 100-0000 100-0000 100-000					•	
100.0952 21 Mary 24 DUDICES 100.000 RWD Wells Flago ACH Reconcised 100.0993 21 Mary 24 DUDIONIS CHINGO MENTS INCC 09.15.00 RWD Wells Flago ACH Reconcised 100.0993 21 Mary 24 DURIONIS CHINGO MENTS INCC 25.47.71 RWD Wells Flago ACH Reconcised 100.0993 21 Mary 24 DURIONIS CHINGO MENTS INCC 25.47.71 RWD Wells Flago ACH Reconcised 100.000 12.47.000 RWD Wells Flago ACH Reconcised RWD Wells Flago				*	-	
1003980 21 Mar 24 EUROCHAN ENVIRONMENT TESTING AMERICA (INCL.) NICE, 25,547.27 RWD WHISE Farge ACM Reconcional 1002984 21 Mar 24 AGRESCRICO CONSILITATION, AND CONSILITATION RECONCIONAL TOTAL NICE, 25,547.27 RWD WHISE Farge ACM Reconcional 1002984 21 Mar 24 AGRESCRICO CONSILITATION, AND CONSILITATION RECONCIONAL TOTAL NICE, 25,547.27 RWD WHISE Farge ACM Reconcional 1002998 21 Mar 24 AGRESCRICO CONSILITATION RECONCIONAL TOTAL NICE, 25,547.27 RWD WHISE Farge ACM Reconcional 1002999 21 Mar 24 AGRESCRICO CONSILITATION RECONCIONAL TOTAL NICE, 25,547.27 RWD WHISE Farge ACM Reconcional 1002990 21 Mar 24 AGRESCRICO CONSILITATION RECONCIONAL TOTAL NICE, 25,547.27 RWD WHISE Farge ACM Reconcional 1002990 21 Mar 24 AGRESCRICO CONSILITATION RECONCIONAL TOTAL NICE, 25,547.27 RWD WHISE Farge ACM Reconcional 1002990 21 Mar 24 AGRESCRICO CONSILITATION RECONCIONAL TOTAL NICE, 25,547.27 RWD WHISE Farge ACM Reconcional 1002990 21 Mar 24 AGRESCRICO CONSILITATION RECONCIONAL TOTAL NICE, 25,547.27 RWD WHISE Farge ACM Reconcional 1002990 21 Mar 24 AGRESCRICO CONSILITATION RECONCIONAL TOTAL NICE, 25,547.27 RWD WHISE Farge ACM Reconcional 1002990 21 Mar 24 AGRESCRICO CONSILITATION RECONCIONAL TOTAL NICE, 25,547.27 RWD WHISE Farge ACM Reconcional 1002990 21 Mar 24 AGRESCRICO CONSILITATION RECONCIONAL TOTAL NICE, 25,547.27 RWD WHISE Farge ACM Reconcional 1002990 21 Mar 24 AGRESCRICO CONSILITATION RECONCIONAL TOTAL NICE, 25,547.27 RWD WHISE Farge ACM REconcional 1002990 21 Mar 24 AGRESCRICO CONSILITATION RECONCIONAL TOTAL NICE, 25,547.27 RWD WHISE Farge ACM REconcional 1002991 21 Mar 24 RWD WHISE Farge ACM RECONCIONAL TOTAL NICE, 25,547.27 RWD WHISE Farge ACM RECONC					-	
10007986 31 Mars 24 (GREWNITC CONSULTIONS), MARC 186,970.000 1890 Wells Farge ALM Reconcised 1000798 21-Mars 24 (MARCER CONSINICION) (CONFANY 877.30 1890 Wells Farge ALM Reconcised 1000798 21-Mars 24 (MARCER CONFINANY 877.30 1890 Wells Farge ALM Reconcised 1000797 21-Mars 24 (MARCER COMPANY 877.30 1890 Wells Farge ALM Reconcised 1000797 21-Mars 24 (MARCER COMPANY 877.30 1890 Wells Farge ALM Reconcised 1000797 21-Mars 24 (MARCER COMPANY 877.30 1890 Wells Farge ALM Reconcised 1000797 12-Mars 24 (MARCER COMPANY 877.30 1890 Wells Farge ALM Reconcised 1000797 12-Mars 24 (MARCER COMPANY 877.30 1890 Wells Farge ALM 1000797 12-Mars 24 (MARCER COMPANY 877.30 1890 Wells Farge ALM 1000797 12-Mars 24 (MARCER COMPANY 877.30 1890 Wells Farge ALM 1000797 1890 Wells Farge ALM 18					•	
1909989 21-Mar-24 AMARECONSTRUCTION COUNCY 9,774.2 88VD Wells Farge ACH Reconciled 1009989 21-Mar-24 AMARECONSTRUCTION COUNCY 9,774.2 88VD Wells Farge ACH Reconciled 1009989 21-Mar-24 AMARECONSTRUCTION COUNCY 9,774.2 88VD Wells Farge ACH Reconciled 1009989 21-Mar-24 AMARECONSTRUCTION COUNCY 9,774.2 88VD Wells Farge ACH Reconciled 1009989 21-Mar-24 AMARECONSTRUCTION COUNCY 9,774.2 88VD Wells Farge ACH Reconciled 1009092 21-Mar-24 AMARECONSTRUCTION COUNCY 9,774.2 1009001 1009001 21-Mar-24 1009002 21-Mar-24 1009001 21-Mar-24 1009					ŭ	
1002996			·	*	-	
1909/09/09 2-Man-24 MONH MICHAEL COWAS 174-70 RWOV Worls Fraga Act Reconciled 1909/09/09 2-Man-24 LANCARE HOLDINGS, INC. 43-721.45 RWOV Worls Fraga Act Reconciled 1909/09/09 2-Man-24 LANCARE HOLDINGS, INC. 43-721.45 RWOV Worls Fraga Act Reconciled 1909/09/09 2-Man-24 LANCARE HOLDINGS, INC. 43-721.45 RWOV Worls Fraga Act Reconciled 1909/09/09 1909/09/09/09/09/09/09/09/09/09/09/09/09/	1002995	21-Mar-24	HAAKER EQUIPMENT COMPANY	877.39	IRWD Wells Fargo ACH	Reconciled
1002006 2-Men-24 MINODICK MOSKOVIT EREPSANN & GIPARD 3.545.40 IRVO Wells Farip ACH Reconciled 1003001 2-Men-24 LIEBERT CASSIDY WITHORE 1.08.50 IRVO Wells Farip ACH Reconciled 1003002 2-Men-24 LIEBERT CASSIDY WITHORE 1.08.50 IRVO Wells Farip ACH Reconciled 1003002 2-Men-24 MIRK ARCHESH 1.08.10 IRVO Wells Farip ACH Reconciled 1003002 2-Men-24 MIRK ARCHESH 1.08.10 IRVO Wells Farip ACH Reconciled 1003002 2-Men-24 MIRK ARCHESH 1.08.10 IRVO Wells Farip ACH Reconciled 1003002 2-Men-24 MIRK ARCHESH 1.08.10 IRVO Wells Farip ACH Reconciled 1003002 2-Men-24 MIRK ARCHESH IRVO Wells Farip ACH Reconciled 1003009 2-Men-24 MIRK ARCHESH IRVO Wells Farip ACH Reconciled 1003009 2-Men-24 MIRK ARCHESH IRVO Wells Farip ACH Reconciled 1003009 2-Men-24 MIRK ARCHESH IRVO Wells Farip ACH Reconciled 1003009 2-Men-24 MIRK ARCHESH IRVO Wells Farip ACH Reconciled 1003009 2-Men-24 MIRK ARCHESH IRVO Wells Farip ACH Reconciled 1003009 2-Men-24 MIRK ARCHESH IRVO Wells Farip ACH Reconciled 1003009 2-Men-24 MIRK ARCHESH IRVO Wells Farip ACH Reconciled 1003009 2-Men-24 MIRK ARCHESH IRVO Wells Farip ACH Reconciled 1003001 2-Men-24 MIRK ARCHESH IRVO Wells Farip ACH Reconciled 1003001 2-Men-24 MIRK ARCHESH IRVO Wells Farip ACH Reconciled 1003001 2-Men-24 MIRK ARCHESH IRVO Wells Farip ACH Reconciled 1003001 2-Men-24 MIRK ARCHESH IRVO Wells Farip ACH Reconciled 1003001 2-Men-24 MIRK ARCHESH MI	1002996	21-Mar-24	HILL BROTHERS CHEMICAL COMPANY	5,287.42	IRWD Wells Fargo ACH	Reconciled
10000000 2 May 24 May 24 Mar 24 LIBERGA HOLDRORS, INC. 4,773.45 RWOV Weits Faige ACH Reconciled 1000000 22 Man 24 LIBERGA MARK ADBSH 1,922.00 RWOV Weits Faige ACH Reconciled 1003000 22 Man 24 Mark ADBSH MARK ADBSH 1,922.00 RWOV Weits Faige ACH Reconciled 1003000 22 Man 24 May 24 PACIFIC PARTS ACO WINDOWS INC. 8,800.00 RWOV Weits Faige ACH Reconciled 1003000 22 Man 24 PARTS ACH PARTS ACO WINDOWS INC. 8,800.00 RWOV Weits Faige ACH Reconciled 1003000 22 Man 24 PARTS REPORT DOCUMENT DESTRUCTION LLC 29.50 IRWO Weits Faige ACH Reconciled 1003000 22 Man 24 PARTS REPORT DOCUMENT DESTRUCTION LLC 1,988.60 IRWO Weits Faige ACH Reconciled 1003000 22 Man 24 PARTS REPORT DOCUMENT DESTRUCTION LLC 1,988.60 IRWO Weits Faige ACH Reconciled 1003001 22 Man 24 PARTS REPORT DOCUMENT DESTRUCT 1,988.60 IRWO Weits Faige ACH Reconciled 1003010 22 Man 24 PARTS REPORT DOCUMENT DESTRUCT 1,988.60 IRWO Weits Faige ACH Reconciled 1003010 22 Man 24 PARTS REPORT DOCUM	1002997	21-Mar-24	JOHN MICHAEL COVAS	174.70	IRWD Wells Fargo ACH	Reconciled
1009007 12-Mar-24 LIBERT CASSIDY VIMINOPE 10,821.00 BWD Wells Fage ACH Reconcised 1009003 21-Mar-24 CHILD COPPORATION 78,859.52 BWD Wells Fage ACH Reconcised 1009003 21-Mar-24 CHILD COPPORATION 12,859.52 BWD Wells Fage ACH Reconcised 1009005 21-Mar-24 CHILD COPPORATION 12,859.52 BWD Wells Fage ACH Reconcised 1009006 21-Mar-24 BWD Wells Fage ACH Reconcised 1009006 21-Mar-24 BWD Wells Fage ACH Reconcised 1009007 21-Mar-24	1002998	21-Mar-24	KRONICK MOSKOVITZ TIEDEMANN & GIRARD	3,545.40	IRWD Wells Fargo ACH	Reconciled
1008002 21-Mar-24 MARK KARSH 10.821.00 RIVO Wells Targe ACH Reconcised 1008004 21-Mar-24 ORANGE COUNTY ATO PARTS CO 1.280.47 RIVO Wells Targe ACH Reconcised 1008006 21-Mar-24 PARCE PARTS & CONTROLS INC 88.00 RIVO Wells Targe ACH Reconcised 1008006 21-Mar-24 PARCE PARTS & CONTROLS INC 83.00 RIVO Wells Targe ACH Reconcised 1008007 21-Mar-24 PARCE REPORT DOCUMENT DESTRUCTION LLC 25.00 RIVO Wells Targe ACH Reconcised 1008007 21-Mar-24 RIVO REPORT PARTS & CONTROLS INC 1.080.00 RIVO Wells Targe ACH Reconcised 1008007 21-Mar-24 RIVO REPORT PARTS & CONTROLS INC 1.080.00 RIVO Wells Targe ACH Reconcised 1008007 21-Mar-24 RIVO REVORT PARTS & CONTROLS AND LIFE RECONCISED 1008007 21-Mar-24 RIVO RECONCISED 1.080.00 RIVO Wells Targe ACH Reconcised 1008007 21-Mar-24 RIVO RECONCISED 1.080.00 RIVO Wells Targe ACH Reconcised 1008007 21-Mar-24 RIVO RECONCISED 1.080.00 RIVO Wells Targe ACH Reconcised 1008007 21-Mar-24 RIVO RECONCISED 1.080.00 RIVO Wells Targe ACH Reconcised 1008007 21-Mar-24 RIVO RECONCISED 1.080.00 RIVO Wells Targe ACH Reconcised 1008007 21-Mar-24 RIVO RECONCISED 1.080.00 RIVO Wells Targe ACH Reconcised 1008007 21-Mar-24 RIVO RECONCISED 1.080.00 RIVO Wells Targe ACH Reconcised 1008007 21-Mar-24 RIVO RECONCISED 1.080.00 RIVO Wells Targe ACH Reconcised 1008007 21-Mar-24 RIVO RECONCISED 1.080.00 RIVO Wells Targe ACH Reconcised 1008007 21-Mar-24 RIVO RECONCISED 1.080.00 RIVO Wells Targe ACH Reconcised 1008007 21-Mar-24 RIVO RECONCISED 1.080.00 RIVO Wells Targe ACH Reconcised 1008007 21-Mar-24 RIVO RECONCISED 1.080.00 RIVO Wells Targe ACH Reconcised 1008007 21-Mar-24 RIVO RECONCISED 1.080.00 RIVO Wells Targe ACH RECONCISED 1.080.00 RIVO					-	
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1003007 21, Mary 2, RAM ARR KNONEERING INC 1,086.00 RRWO Wells Fargo ACH Reconciled 1003009 21, Mary 2, RED WING SHOE STORE 542,78 RRWO Wells Fargo ACH Reconciled 1003010 21, Mary 2, RED WING SHOE STORE 542,78 RRWO Wells Fargo ACH Reconciled 1003011 21, Mary 2, RED WING SHOE STORE RRWO Wells Fargo ACH Reconciled 1003011 21, Mary 2, RED WING SHOE STORE RRWO Wells Fargo ACH Reconciled 1003012 21, Mary 2, RED KNOW WELL STORAGE DISTRICT 42,88.00 RRWO Wells Fargo ACH Reconciled 1003013 21, Mary 2, RED KNOW WELL STORAGE DISTRICT 42,88.00 RRWO Wells Fargo ACH Reconciled 1003013 21, Mary 2, RED KNOW WELL STORAGE DISTRICT 42,88.00 RRWO Wells Fargo ACH Reconciled 1003013 21, Mary 2, RED KNOW WELL STORAGE DISTRICT 27,450.00 RRWO Wells Fargo ACH Reconciled 1003015 21, Mary 2, RED KNOW WELL STORAGE DISTRICT 27,250.00 RRWO Wells Fargo ACH Reconciled 1003016 21, Mary 2, RED KNOW WELL STORAGE DISTRICT 21, Mary 2					-	
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1003000 21-Mar-24 REUNINO SHOE STORE 542.74 RIVD Wells Fargo ACH Reconciled 1003011 21-Mar-24 RINCHANCE STANDARD LIER INSURANCE COMPANY 37.078.44 RIVD Wells Fargo ACH Reconciled 1003012 21-Mar-24 RINCHANCE STANDARD WEIR STORAGE DISTRICT 48.288.00 RIVD Wells Fargo ACH Reconciled 1003013 21-Mar-24 SITESTING 7.450.00 RIVD Wells Fargo ACH Reconciled 1003013 21-Mar-24 SITESTING 7.550.00 RIVD Wells Fargo ACH Reconciled 1003014 21-Mar-24 SITESTING 7.550.00 RIVD Wells Fargo ACH Reconciled 1003015 21-Mar-24 SITESTING 7.570.00 RIVD Wells Fargo ACH Reconciled 1003015 21-Mar-24 SITESTING 7.570.00 RIVD Wells Fargo ACH Reconciled 1003016 21-Mar-24 SITESTING 7.570.00 RIVD Wells Fargo ACH Reconciled 1003016 21-Mar-24 SITESTING 7.570.00 RIVD Wells Fargo ACH Reconciled 1003017 21-Mar-24 SITESTING 7.570.00 RIVD Wells Fargo ACH Reconciled 1003017 21-Mar-24 SITESTING 7.570.00 RIVD Wells Fargo ACH Reconciled 1003017 21-Mar-24 SITESTING 7.570.00 RIVD Wells Fargo ACH Reconciled 1003018 21-Mar-24 RIVD Wells Fargo ACH Reconciled 1003014 22-Mar-24 ACCM TECHNICAL SERVICES, INC. 1,747.21 RIVD Wells Fargo ACH Reconciled 1003040 22-Mar-24 ACCM TECHNICAL SERVICES, INC. 1,747.21 RIVD Wells Fargo ACH Reconciled 1003041 22-Mar-24				* * * * * * * * * * * * * * * * * * * *	-	
22 - Mar. 24 RINCONT PURCK CENTER INC. 1.06.493 IRWD Wells Farge ACH Reconciled 1003013 22 - Mar. 24 SITESTING 7.45.000 IRWD Wells Farge ACH Reconciled 1003014 22 - Mar. 24 SITESTING 7.45.000 IRWD Wells Farge ACH Reconciled 1003015 22 - Mar. 24 SITESTING 7.587.195 IRWD Wells Farge ACH Reconciled 1003016 22 - Mar. 24 SITESTING RECONCILED		21-Mar-24	RED WING SHOE STORE		-	Reconciled
1093812 21-Min-24 STESTING 7,450.00 IRVD Welts Farge ACH Reconciled 1093814 21-Min-24 STISTING 7,450.00 IRVD Welts Farge ACH Reconciled 1093815 21-Min-24 STISTING 7,570.28 IRVD Welts Farge ACH Reconciled 1093815 21-Min-24 STISTING 7,570.28 IRVD Welts Farge ACH Reconciled 1093815 21-Min-24 STISTING 7,570.28 IRVD Welts Farge ACH Reconciled 1093815 21-Min-24 STISTING 7,570.28 IRVD Welts Farge ACH Reconciled 1093815 21-Min-24 STISTING 7,570.28 IRVD Welts Farge ACH Reconciled 1093816 21-Min-24 STISTING 7,570.28 IRVD Welts Farge ACH Reconciled 1093816 21-Min-24 WESTAMERICA COMMUNICATIONS, INC. 880.00 IRVD Welts Farge ACH Reconciled 1093816 21-Min-24 WESTAMERICA COMMUNICATIONS, INC. 880.00 IRVD Welts Farge ACH Reconciled 1093816 21-Min-24 WESTAMERICA COMMUNICATIONS, INC. 880.00 IRVD Welts Farge ACH Reconciled 1093816 21-Min-24 WESTAMERICA COMMUNICATIONS, INC. 1,582.24 IRVD Welts Farge ACH Reconciled 1093816 22-Min-24 ACCOM TECHNICAL SERVICES, INC. 1,172.50 IRVD Welts Farge ACH Reconciled 1093816 22-Min-24 ACCOM TECHNICAL SERVICES, INC. 1,174.21 IRVD Welts Farge ACH Reconciled 1093816 22-Min-24 ACCOM TECHNICAL SERVICES, INC. 1,774.21 IRVD Welts Farge ACH Reconciled 1093816 22-Min-24 BENNICAP PACIFIC INC 7,774.21 IRVD Welts Farge ACH Reconciled 1093816 22-Min-24 CHINCHICAL SERVICES, INC. 9,772.81 IRVD Welts Farge ACH Reconciled 1093816 22-Min-24 CHINCHICAL SERVICES, INC. 9,772.81 IRVD Welts Farge ACH Reconciled 1093816 22-Min-24 CHINCHICAL SERVICES, INC. 3,787.72 IRVD Welts Farge ACH Reconciled 1093816 22-Min-24 CHINCHICAL SERVICES, INC. 3,787.75 IRVD Welts Farge ACH Reconciled 1093816 22-Min-24 CHINCHICAL SERVICES, INC. 3,936.75 IRVD Welts Farge ACH Reconciled 1093816 22-Min-24 CHINCHICAL SERVICES, INC. 3,936.75 IRVD Welts Farge ACH Reconciled 1093816 22-M	1003010	21-Mar-24	RELIANCE STANDARD LIFE INSURANCE COMPANY	37,076.44	IRWD Wells Fargo ACH	Reconciled
1003013 21-Min-24 SITESTING 7,450.00 IRVD Wells Fargo ACH Reconciled 1003015 21-Min-24 SUNLE ADVERTISING INC. 75,871.95 IRVD Wells Fargo ACH Reconciled 1003016 21-Min-24 ITEM FLICH, INC 75,871.95 IRVD Wells Fargo ACH Reconciled 1003016 21-Min-24 ITEM FLICH, INC 75,871.95 IRVD Wells Fargo ACH Reconciled 1003016 21-Min-24 ITEM FLICH, INC 75,871.95 IRVD Wells Fargo ACH Reconciled 1003018 21-Min-24 ITEM FLICH, INC 3,234.62 IRVD Wells Fargo ACH Reconciled 1003018 21-Min-24 VS SALES INC 3,234.62 IRVD Wells Fargo ACH Reconciled 1003019 21-Min-24 VS SALES INC IRVD Wells Fargo ACH Reconciled 1003019 22-Min-24 IRVD Wells Fargo ACH Reconciled 1003019 22-Min-24 AUSTRAIN MEDICAL SERVICES, INC 1,442.24 IRVD Wells Fargo ACH Reconciled 1003040 22-Min-24 AUSTRAIN MEDICAL SERVICES, INC 1,472.20 IRVD Wells Fargo ACH Reconciled 1003041 22-Min-24 AUSTRAIN MEDICAL SERVICES, INC 1,472.20 IRVD Wells Fargo ACH Reconciled 1003041 22-Min-24 AUSTRAIN MEDICAL SERVICES, INC 3,006.04 IRVD Wells Fargo ACH Reconciled 1003042 22-Min-24 AUSTRAIN MEDICAL SERVICES, INC 3,946.16 IRVD Wells Fargo ACH Reconciled 1003043 22-Min-24 AUSTRAIN MEDICAL SERVICES, INC 3,946.16 IRVD Wells Fargo ACH Reconciled 1003044 22-Min-24 AUSTRAIN MEDICAL SERVICES, INC 3,178.75 IRVD Wells Fargo ACH Reconciled 1003045 22-Min-24 AUSTRAIN MEDICAL SERVICES, INC 3,178.75 IRVD Wells Fargo ACH Reconciled 1003045 22-Min-24 CULTIFOLIS SYSTEMS, INC 3,178.75 IRVD Wells Fargo ACH Reconciled 1003046 22-Min-24 CULTIFOLIS SYSTEMS, INC 3,178.75 IRVD Wells Fargo ACH Reconciled 1003047 22-Min-24 DUDEK AUSTRAIN MEDICAL SERVICES, INC 3,236.75 IRVD Wells Fargo ACH Reconciled 1003047 22-Min-24 DUDEK AUSTRAIN MEDICAL SERVICES, INC 3,236.75 IRVD Wells Fargo ACH Reconciled 1003047 22-Min-24 IRVD Wells Fargo ACH Reconciled 1003047 22-Min-24	1003011	21-Mar-24	RINCON TRUCK CENTER INC.	1,054.93	IRWD Wells Fargo ACH	Reconciled
1003014 21-Mar24 SWITH SYSTEM DRIVER INFOVENENT INSTITUTE, INC. 5,702.28 IRWD Weils Fargo ACH Reconciled 1003016 21-Mar24 TETRA TECH, INC 27,215.00 IRWD Weils Fargo ACH Reconciled 1003016 21-Mar24 TETRA TECH, INC 1,805.00 IRWD Weils Fargo ACH Reconciled 1003017 21-Mar24 TETRA TECH, INC 1,805.00 IRWD Weils Fargo ACH Reconciled 1003018 21-Mar24 SS ALES INC RECONCILED RECONCILED REVOLUTION REVOLUTI	1003012	21-Mar-24	ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT	48,298.00	IRWD Wells Fargo ACH	Reconciled
1003015 21-Mar24 SUKLE ADVERTISHING INC. 75,871.95 IRWD Wells Fargip ACH Reconciled 1003017 21-Mar24 TOTAL RESOURCE MANAGEMENT, INC 1,805.00 IRWD Wells Fargip ACH Reconciled 1003018 21-Mar24 VISS SALES INC 3,324.62 IRWD Wells Fargip ACH Reconciled 1003018 21-Mar24 VISS SALES INC 3,324.62 IRWD Wells Fargip ACH Reconciled 1003019 21-Mar24 VISS SALES INC 3,324.62 IRWD Wells Fargip ACH Reconciled 1003019 22-Mar24 ACE INDUSTRIES, INC. 1,548.24 IRWD Wells Fargip ACH Reconciled 1003049 28-Mar24 ACE INDUSTRIES, INC. 1,172.50 IRWD Wells Fargip ACH Reconciled 1003049 28-Mar24 ACE INDUSTRIES, INC. 1,172.50 IRWD Wells Fargip ACH Reconciled 1003041 28-Mar24 ACE INDUSTRIES, INC. 1,172.50 IRWD Wells Fargip ACH Reconciled 1003042 28-Mar24 ACE INDUSTRIES, INC. 3,066.04 IRWD Wells Fargip ACH Reconciled 1003044 28-Mar24 ACE INDUSTRIES, INC. 3,066.04 IRWD Wells Fargip ACH Reconciled 1003044 28-Mar24 CUNFORNIA BARRICADE RENTAL, INC. 39,948.16 IRWD Wells Fargip ACH Reconciled 1003044 28-Mar24 CUNFORNIA BARRICADE RENTAL, INC. 3,172.75 IRWD Wells Fargip ACH Reconciled 1003044 28-Mar24 CUNFORNIA BARRICADE RENTAL, INC. 3,172.75 IRWD Wells Fargip ACH Reconciled 1003045 28-Mar24 CUNFORNIA BARRICADE RENTAL, INC. 3,172.75 IRWD Wells Fargip ACH Reconciled 1003045 28-Mar24 CUNFORNIA BARRICADE RENTAL, INC. 3,267.50 IRWD Wells Fargip ACH Reconciled 1003045 28-Mar24 CUNFORNIA BARRICADE RENTAL, INC. 3,267.50 IRWD Wells Fargip ACH Reconciled 1003045 28-Mar24 CUNFORNIA BARRICADE RENTAL, INC. 3,267.50 IRWD Wells Fargip ACH Reconciled 1003045 28-Mar24 CUNFORNIA BARRICADE RENTAL BARR	1003013	21-Mar-24	SITESTING	7,450.00	IRWD Wells Fargo ACH	Reconciled
1003016 21-Mar 24 TEFRA TECH, INC 19.05.00 IRWD Wells Fargo ACH Reconciled 1003018 21-Mar 24 VESTAMERICA COMMUNICATIONS, INC 19.05.00 IRWD Wells Fargo ACH Reconciled 1003018 21-Mar 24 VESTAMERICA COMMUNICATIONS, INC 3.324.62 IRWD Wells Fargo ACH Reconciled 1003019 21-Mar 24 VESTAMERICA COMMUNICATIONS, INC 15.48.24 IRWD Wells Fargo ACH Reconciled 1003034 28-Mar 24 ACO IN INCENTINES, INC 15.04.24 IRWD Wells Fargo ACH Reconciled 1003040 28-Mar 24 ACO IN INCENTINES, INC 1.172.50 IRWD Wells Fargo ACH Reconciled 1003041 28-Mar 24 ACO IN INCENTINES, INC 1.172.50 IRWD Wells Fargo ACH Reconciled 1003042 28-Mar 24 AUMINIS GROUP BENETIS LLC 3.06.06 IRWD Wells Fargo ACH Reconciled 1003042 28-Mar 24 AUFORNIA BARRICADE RENTAL, INC 3.94.84.16 IRWD Wells Fargo ACH Reconciled 1003044 28-Mar 24 COW GOVERNMENT LLC 5.77.28 IRWD Wells Fargo ACH Reconciled 1003046 28-Mar 24 COW GOVERNMENT LLC 5.77.28 IRWD Wells Fargo ACH Reconciled 1003046 28-Mar 24 COW GOVERNMENT LLC 5.77.28 IRWD Wells Fargo ACH Reconciled 1003046 28-Mar 24 COUNTINES ACCOLOR 1.06.25 IRWD Wells Fargo ACH Reconciled 1003047 28-Mar 24 COUNTINES ACCOLOR 1.06.25 IRWD Wells Fargo ACH Reconciled 1003047 28-Mar 24 COUNTINES ACCOLOR 1.06.25 IRWD Wells Fargo ACH Reconciled 1003045 28-Mar 24 UDICK IRWD Wells Fargo ACH Reconciled 1003045 28-Mar 24 UDICK IRWD Wells Fargo ACH Reconciled 1003045 28-Mar 24 UDICK IRWD Wells Fargo ACH Reconciled 1003053 28-Mar 24 UDICK IRWD Wells Fargo ACH Reconciled 1003055 28-Mar 24 IRWD Wells Fargo ACH Reconciled 1003055 28-Mar 24 IRWD Wells Fargo ACH Reconciled 1003055 28-Mar 24 IRWD Wells Fargo ACH Reconciled 1003056 28-Mar 24 IRWD Wells Fargo ACH Reconciled 1003057 28-Mar 24 IRWD Wells Fargo ACH Reconciled 1003057 28-Mar 24 IRWD Wells Fargo ACH Reconciled 1003057 28-Mar 24 I					•	
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1003046 28-Mar-24 CITY OF IRVINE 360.38 IRWD Wells Fargo ACH Reconciled 1003047 28-Mar-24 COLONIAL LIFE & ACCIDENT INSURANCE CO. 652.98 IRWD Wells Fargo ACH Reconciled 1003049 28-Mar-24 DEMARIA ELECTRIC MOTOR SERVICES, INC. 23,667.50 IRWD Wells Fargo ACH Reconciled 1003049 28-Mar-24 DEMARIA ELECTRIC MOTOR SERVICES INC 1,062.50 IRWD Wells Fargo ACH Reconciled 1003050 28-Mar-24 DEMARIA ELECTRIC MOTOR SERVICES INC 40.00 IRWD Wells Fargo ACH Reconciled 1003051 28-Mar-24 EUROFINIS ENVIRONMENT TESTING AMERICA HOLDINGS, INC. 971.25 IRWD Wells Fargo ACH Reconciled 1003052 28-Mar-24 EUROFINIS ENVIRONMENT TESTING AMERICA HOLDINGS, INC. 971.25 IRWD Wells Fargo ACH Reconciled 1003053 28-Mar-24 FISHER & PHILLIPS LLP 34,016.88 IRWD Wells Fargo ACH Reconciled 1003055 28-Mar-24 FISHER & PHILLIPS LLP 34,016.88 IRWD Wells Fargo ACH Reconciled 1003055 28-Mar-24 HAKKER EQUIPMENT COMPANY 669.14 IRWD Wells Fargo ACH Reconciled 1003056 28-Mar-24 JCI JONES CHEMICAL COMPANY 27,429.92 IRWD Wells Fargo ACH Reconciled 1003056 28-Mar-24 JCI JONES CHEMICAL COMPANY 27,429.92 IRWD Wells Fargo ACH Reconciled 1003056 28-Mar-24 JCI JONES CHEMICAL COMPANY 28,363.97 IRWD Wells Fargo ACH Reconciled 1003056 28-Mar-24 MINICIPAL WATER DISTRICT OF ORANGE COUNTY 948,571.48 IRWD Wells Fargo ACH Reconciled 1003056 28-Mar-24 MINICIPAL WATER DISTRICT OF ORANGE COUNTY 948,571.48 IRWD Wells Fargo ACH Reconciled 1003061 28-Mar-24 ORANGE COUNTY SANITATION DISTRICT 1,404,578.57 IRWD Wells Fargo ACH Reconciled 1003062 28-Mar-24 ORANGE COUNTY SANITATION DISTRICT 1,404,578.57 IRWD Wells Fargo ACH Reconciled 1003066 28-Mar-24 RECENTED FINE COUNTY SANITATION DISTRICT 1,404,578.57 IRWD Wells Fargo ACH Reconciled 1003066 28-Mar-24 RECENTED FINE COUNTY SANITATION DISTRICT 1,404,578.57 IRWD Wells Fargo ACH Reconciled 1003066 28-Mar-24 RECENT	1003044	28-Mar-24	CDW GOVERNMENT LLC	577.28	IRWD Wells Fargo ACH	Reconciled
1003047 28-Mar-24 COLONIAL LIFE & ACCIDENT INSURANCE CO. 652.98 IRWD Welts Fargo ACH Reconciled 1003048 28-Mar-24 DARKE TRAINER COLOMOTOR SERVICES, INC. 23,667.50 IRWD Welts Fargo ACH Reconciled 1003050 28-Mar-24 DARKE TRAFFIC CONTROL SERVICES INC 1,062.50 IRWD Welts Fargo ACH Reconciled 1003051 28-Mar-24 DUDEK DUDEK 40.00 IRWD Welts Fargo ACH Reconciled 1003051 28-Mar-24 EUROFINIS ENVIRONMENT TESTING AMERICA HOLDINGS, INC. 971.25 IRWD Welts Fargo ACH Reconciled 1003052 28-Mar-24 FIDELITY SECURITY LIFE INSURANCE COMPANY 8,106.99 IRWD Welts Fargo ACH Reconciled 1003054 28-Mar-24 HILL BROTHERS CHEMICAL COMPANY 669.14 IRWD Welts Fargo ACH Reconciled 1003055 28-Mar-24 HILL BROTHERS CHEMICAL COMPANY 27,429.92 IRWD Welts Fargo ACH Reconciled 1003055 28-Mar-24 JCI JONES CHEMICAL COMPANY 27,429.92 IRWD Welts Fargo ACH Reconciled 1003055 28-Mar-24 LABOCARE HOLDINGS, INC. 4,590.00 IRWD Welts Fargo ACH Reconciled 1003055 28-Mar-24 MERRIMAC PETROLEUM, INC. 33,514.69 IRWD Welts Fargo ACH Reconciled 1003055 28-Mar-24 MERRIMAC PETROLEUM, INC. 33,514.69 IRWD Welts Fargo ACH Reconciled 1003056 28-Mar-24 MUNICIPAL WATER DISTRICT OF ORANGE COUNTY 948,571.48 IRWD Welts Fargo ACH Reconciled 1003060 28-Mar-24 OLIN CORPORATION 56,632.91 IRWD Welts Fargo ACH Reconciled 1003061 28-Mar-24 OLIN CORPORATION 56,632.91 IRWD Welts Fargo ACH Reconciled 1003062 28-Mar-24 ORANGE COUNTY AUTO PARTS CO 765.70 IRWD Welts Fargo ACH Reconciled 1003063 28-Mar-24 ORANGE COUNTY AUTO PARTS CO 765.70 IRWD Welts Fargo ACH Reconciled 1003063 28-Mar-24 RECENTS OF THE UNIVERSITY OF CALIFORNIA 800.00 IRWD Welts Fargo ACH Reconciled 1003066 28-Mar-24 RECENTS OF THE UNIVERSITY OF CALIFORNIA 800.00 IRWD Welts Fargo ACH Reconciled 1003066 28-Mar-24 RECENTS OF THE UNIVERSITY OF CALIFORNIA 800.00 IRWD Welts Fargo ACH Reconciled	1003045	28-Mar-24	CENTROID SYSTEMS, INC.	8,178.75	IRWD Wells Fargo ACH	Reconciled
1003048		28-Mar-24	CITY OF IRVINE		IRWD Wells Fargo ACH	Reconciled
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1003072 28-Mar-24 WATER TREATMENT CHEMICALS INC 20,268.00 IRWD Wells Fargo ACH Reconciled					-	
SUB-TOTAL IRWD WELLS FARGO ACH DISBURSEMENTS 6,594,579.83	1003072	28-Mar-24	WATER TREATMENT CHEMICALS INC	20,268.00	IRWD Wells Fargo ACH	Reconciled
	SUB-TOTAL IRWD V	VELLS FARGO	ACH DISBURSEMENTS	6,594,579.83		

2000616 7-Mar-24 CAPTIVE AUDIENCE MARKETING INC. 79.00 IRWD Wells Fargo PC Reconciled

IRVINE RANCH WATER DISTRICT AP DISBURSEMENTS AND VOIDS FOR MARCH 2024

CHECK OR	PAYMENT		PAYMENT		
ELECTRONIC #	DATE	SUPPLIERS	AMOUNT	PAYMENT METHOD	STATUS
2000617	7-Mar-24	FERGUSON ENTERPRISES, LLC	18,527.40	IRWD Wells Fargo PC	Reconciled
2000618	7-Mar-24	FLEET SOLUTIONS LLC	5,216.87	IRWD Wells Fargo PC	Reconciled
2000619	7-Mar-24	HARRINGTON INDUSTRIAL PLASTICS LLC	11,579.30	IRWD Wells Fargo PC	Reconciled
2000620	7-Mar-24	IDEXX DISTRIBUTION, INC	14,656.67	IRWD Wells Fargo PC	Reconciled
2000621	7-Mar-24	NCL OF WISCONSIN INC	116.58	IRWD Wells Fargo PC	Reconciled
2000622	7-Mar-24	PARKHOUSE TIRE INC	1,999.13	IRWD Wells Fargo PC	Reconciled
2000623	7-Mar-24	POLYDYNE INC	80,295.30	IRWD Wells Fargo PC	Reconciled
2000624 2000625	7-Mar-24	WECK LABORATORIES INC	40.00	IRWD Wells Fargo PC	Reconciled Reconciled
2000625	14-Mar-24 14-Mar-24	ABBA TERMITE & PEST CONTROL, INC. HARRINGTON INDUSTRIAL PLASTICS LLC	350.00 7,290.49	IRWD Wells Fargo PC IRWD Wells Fargo PC	Reconciled
2000627	14-Mar-24	INNOVATIVE MACHINE TOOL REPAIR LLC	1,237.21	IRWD Wells Fargo PC	Reconciled
2000628	14-Mar-24	PARKHOUSE TIRE INC	4,073.25	IRWD Wells Fargo PC	Reconciled
2000629	14-Mar-24		8,921.70	IRWD Wells Fargo PC	Reconciled
2000630	14-Mar-24	THERMO ELECTRON NORTH AMERICA LLC	1,206.19	IRWD Wells Fargo PC	Reconciled
2000631	14-Mar-24	THOMPSON & PHIPPS INC	1,460.22	IRWD Wells Fargo PC	Reconciled
2000632	14-Mar-24	UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA	5,622.56	IRWD Wells Fargo PC	Reconciled
2000633	21-Mar-24	BIO-ACOUSTICAL CORP.	3,750.00	IRWD Wells Fargo PC	Reconciled
2000634	21-Mar-24	FERGUSON ENTERPRISES, LLC	14,618.57	IRWD Wells Fargo PC	Reconciled
2000635	21-Mar-24	HARRINGTON INDUSTRIAL PLASTICS LLC	1,553.50	IRWD Wells Fargo PC	Reconciled
2000636	21-Mar-24	IDEXX DISTRIBUTION, INC	571.08	IRWD Wells Fargo PC	Reconciled
2000637	21-Mar-24	INNOVATIVE MACHINE TOOL REPAIR LLC	1,187.63	IRWD Wells Fargo PC	Reconciled
2000638	21-Mar-24	POLYDYNE INC	4,146.22	IRWD Wells Fargo PC	Reconciled
2000639	21-Mar-24	ROSSI AUTOMOTIVE EQUIPMENT INC	422.74	IRWD Wells Fargo PC	Reconciled
2000640 2000641	21-Mar-24 21-Mar-24	THOMPSON & PHIPPS INC WECK LABORATORIES INC	1,402.47 9,810.00	IRWD Wells Fargo PC IRWD Wells Fargo PC	Reconciled Reconciled
2000641	21-Mar-24 28-Mar-24		9,810.00 175.00	IRWD Wells Fargo PC	Reconciled
2000643	28-Mar-24	ACCUSOURCE, INC.	475.10	IRWD Wells Fargo PC	Negotiable
2000644	28-Mar-24		459.40	IRWD Wells Fargo PC	Reconciled
2000645	28-Mar-24	HARRINGTON INDUSTRIAL PLASTICS LLC	2,266.38	IRWD Wells Fargo PC	Reconciled
2000646	28-Mar-24	THOMPSON & PHIPPS INC	12,942.68	IRWD Wells Fargo PC	Reconciled
2000647	28-Mar-24	TREE OF LIFE NURSERY	283.06	IRWD Wells Fargo PC	Negotiable
SUB-TOTAL IRWD	WELLS FARGO) PC	216,735.70		
100105	13-Mar-24	•	1,905.38	IRWD Wells Fargo Wire	Negotiable
100106	19-Mar-24	BANK OF NEW YORK MELLON TRUST COMPANY NA	41,723.90	IRWD Wells Fargo Wire	Negotiable
100107	22-Mar-24	CITIGROUP GLOBAL MARKETS INC.	27,519.23	IRWD Wells Fargo Wire	Negotiable
100108	22-Mar-24	•	27,518.94	IRWD Wells Fargo Wire	Negotiable
100110 100111	25-Mar-24 25-Mar-24	U.S. BANK NATIONAL ASSOCIATION BANK OF AMERICA	97,254.13 96,344.23	IRWD Wells Fargo Wire IRWD Wells Fargo Wire	Negotiable Negotiable
100111	25-Mar-24		121,169.13	IRWD Wells Fargo Wire	Negotiable
100112	25-Mar-24	U.S. BANK NATIONAL ASSOCIATION	43,807.54	IRWD Wells Fargo Wire	Negotiable
100114		SUMITOMO MITSUI BANKING CORPORATION	78,522.13	IRWD Wells Fargo Wire	Negotiable
100115	26-Mar-24	BANK OF NEW YORK MELLON TRUST COMPANY NA	183,709.02	IRWD Wells Fargo Wire	Negotiable
100116	27-Mar-24	WELLS FARGO BANK, N.A.	1,654.30	IRWD Wells Fargo Wire	Negotiable
100117	27-Mar-24	WELLS FARGO BANK, N.A.	1,719.53	IRWD Wells Fargo Wire	Negotiable
100118	27-Mar-24	WELLS FARGO BANK, N.A.	1,351.38	IRWD Wells Fargo Wire	Negotiable
100119	27-Mar-24	WELLS FARGO BANK, N.A.	1,238.66	IRWD Wells Fargo Wire	Negotiable
100120	27-Mar-24	WELLS FARGO BANK, N.A.	1,577.17	IRWD Wells Fargo Wire	Negotiable
100121		WELLS FARGO BANK, N.A.	4,705.00	IRWD Wells Fargo Wire	Negotiable
SUB-TOTAL IRWD	WELLS FARGO	O WIRE DISBURSEMENTS	731,719.67		
45000	4 14	CALPERC	740.405.00	IDIAID IAE	Alexant III
15833	4-Mar-24	CALPERS	748,125.90	IRWD Wire	Negotiable
15834	4-Mar-24	CALPERS CHARD SNYDER & ASSOCIATES INC.	4,620.74	IRWD Wire	Negotiable
15835 15836	5-Mar-24 5-Mar-24	CHARD SNYDER & ASSOCIATES, INC. CHARD SNYDER & ASSOCIATES, INC.	23,388.64 6,548.46	IRWD Wire IRWD Wire	Negotiable Negotiable
15837	5-Mar-24	YORK RISK SERVICES GROUP, INC.	4,859.65	IRWD Wire	Negotiable
15838	7-Mar-24	JAMBOREE SMOG	93.00	IRWD Wire	Negotiable
15839	11-Mar-24		10,205.90	IRWD Wire	Negotiable
15840	11-Mar-24	CHARD SNYDER & ASSOCIATES, INC.	8,305.30	IRWD Wire	Negotiable
15841	11-Mar-24	BANK OF AMERICA MERRILL LYNCH	92,667.68	IRWD Wire	Negotiable
15842	11-Mar-24	WELLS FARGO BANK, N.A.	5,955.74	IRWD Wire	Negotiable
15843	12-Mar-24	INTERNAL REVENUE SERVICE	267,322.05	IRWD Wire	Negotiable
15844	12-Mar-24	FRANCHISE TAX BOARD	89,005.12	IRWD Wire	Negotiable
15845	12-Mar-24	EMPLOYMENT DEVELOPMENT DEPARTMENT	21,115.51	IRWD Wire	Negotiable
15846	12-Mar-24	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	3,267.60	IRWD Wire	Negotiable
15847	12-Mar-24		211,206.09	IRWD Wire	Negotiable
15848	12-Mar-24	YORK RISK SERVICES GROUP, INC.	4,068.54	IRWD Wire	Negotiable
15849	12-Mar-24	WELLS FARGO BANK, N.A.	5,442.77	IRWD Wire	Negotiable

D - 13 Page 13 of 14

IRVINE RANCH WATER DISTRICT AP DISBURSEMENTS AND VOIDS FOR MARCH 2024

CHECK OR	PAYMENT		PAYMENT		
ELECTRONIC #	DATE	SUPPLIERS	AMOUNT	PAYMENT METHOD	STATUS
15850	13-Mar-24	CALPERS	1,321.80	IRWD Wire	Negotiable
15851	13-Mar-24	CALPERS	311,155.80	IRWD Wire	Negotiable
15852	18-Mar-24	CHARD SNYDER & ASSOCIATES, INC.	1,155.17	IRWD Wire	Negotiable
15853	18-Mar-24	CHARD SNYDER & ASSOCIATES, INC.	6,542.82	IRWD Wire	Negotiable
15854	22-Mar-24	YORK RISK SERVICES GROUP, INC.	5,603.50	IRWD Wire	Negotiable
15855	22-Mar-24	INTERNAL REVENUE SERVICE	294,239.28	IRWD Wire	Negotiable
15856	22-Mar-24	FRANCHISE TAX BOARD	99,684.45	IRWD Wire	Negotiable
15857	22-Mar-24	EMPLOYMENT DEVELOPMENT DEPARTMENT	21,002.21	IRWD Wire	Negotiable
15858	22-Mar-24	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	3,267.60	IRWD Wire	Negotiable
15859	22-Mar-24	EMPOWER RETIREMENT, LLC	238,815.47	IRWD Wire	Negotiable
15860	25-Mar-24	CHARD SNYDER & ASSOCIATES, INC.	5,482.75	IRWD Wire	Negotiable
15861	25-Mar-24	CHARD SNYDER & ASSOCIATES, INC.	3,461.32	IRWD Wire	Negotiable
15862	26-Mar-24	YORK RISK SERVICES GROUP, INC.	18,627.91	IRWD Wire	Negotiable
15863	26-Mar-24	CALPERS	309,032.41	IRWD Wire	Negotiable
15864	26-Mar-24	BANK OF AMERICA MERRILL LYNCH	92,667.68	IRWD Wire	Negotiable
15865	27-Mar-24	WELLS FARGO BANK, N.A.	5,482.29	IRWD Wire	Negotiable
15868	27-Mar-24	CHARD SNYDER & ASSOCIATES, INC.	1,411.55	IRWD Wire	Negotiable
15869	27-Mar-24	WELLS FARGO BANK, N.A.	5,852.90	IRWD Wire	Negotiable
15870	27-Mar-24	WELLS FARGO BANK, N.A.	5,739.43	IRWD Wire	Negotiable
15871	27-Mar-24	WELLS FARGO BANK, N.A.	5,550.39	IRWD Wire	Negotiable
SUB-TOTAL IRWD	BOFA WIRE D	SBURSEMENTS	2,942,295.42		
SUB-TOTAL BOFA	AND WELLS F	ARGO CHECK AND ELECTRONIC DISBURSEMENTS	18,337,295.76		
15866	27-Mar-24		1,023.13	IRWD Wire	Voided
15867	27-Mar-24	BANK OF AMERICA	2,624.78	IRWD Wire	Voided
100109	25-Mar-24	BANK OF AMERICA	97,254.13	IRWD Wells Fargo Wire	Voided
1002904	14-Mar-24	Oldewage, Lars Daniel (Lars)	32.05	IRWD Wells Fargo ACH for Expense Reports	Voided
1002999	21-Mar-24	LA HABRA FENCE COMPANY INC	1,977.00	IRWD Wells Fargo ACH	Voided
SUB-TOTAL BOFA	AND WELLS F	ARGO CHECK AND ELECTRONIC ISSUED AND VOIDED IN MARCH 2024	102,911.09		
TOTAL			10 440 200 25		
TOTAL			18,440,206.85		

D - 14 Page 14 of 14

Exhibit "E"

MONTHLY SUMMARY OF PAYROLL ACH PAYMENTS

March 2024

	AMOUNT	VENDOR	PURPOSE
3/8/2024 3/22/2024	1,253,217.11 1,338,336.45 \$2,591,553.56	BANK OF AMERICA BANK OF AMERICA	ACH Payments for Payroll ACH Payments for Payroll

Exhibit "F"

IRWD Gov Code 53065.5 Disclosure Report

Payment or Reimbursements for Individual charges of \$100 or more per transaction for services or product received. 01-MAR-24 to 31-MAR-24

NAME	CHECK NO.	CHECK DATE	AMOUNT	ITEM DESCRIPTION	EXPENSE JUSTIFICATION
Aryan, Stephen	1002887	14-Mar-24	305.16	Lodging	PARMA 50th Anniversary Conference, Indian Wells, CA - Feb. 20, 2024
Aryan, Stephen	1002887	14-Mar-24	305.16	Lodging	PARMA 50th Anniversary Conference, Indian Wells, CA - Feb. 21, 2024
Aryan, Stephen	1002887	14-Mar-24	305.16	Lodging	PARMA 50th Anniversary Conference, Indian Wells, CA - Feb. 22, 2024
Aryan, Stephen	1002887	14-Mar-24	147.40	Mileage	Roundtrip - Attended PARMA 50th Anniversary Conference, Indian Wells, CA - Feb. 20-23, 2024
Bronstein, Louis	1002889	14-Mar-24	123.95	Mileage	Roundtrip - Attended CASA's 2024 Winter Conference, Palm Springs - Jan. 24-26, 2024
Cariker, Cody	1002823	7-Mar-24	232.25	Certification	SWS - Small Water System Operation and Maintenance
Compton, Christine	1002824	7-Mar-24	121.20	Mileage	Roundtrip - Attended CASA's 2024 Winter Conference, Palm Springs - Jan. 24-26, 2024
Daquial, Dixie	1002894	14-Mar-24	221.00	Membership	CWEA membership
Daquial, Dixie	1002894	14-Mar-24	207.00	Certification	CWEA Electrical/Instrumentation Technician Grade II
Drew, Michael	1002896	14-Mar-24	250.00	Other(Misc)	Safety shoe allowance
Estrada, Robert	1002957	21-Mar-24	106.67	Other(Misc)	Reimbursement for wireless device deductible
Garcia, Alex	1002828	7-Mar-24	250.00	Other(Misc)	Safety shoe allowance
Habiger, Steve Jr	1002959	21-Mar-24	358.25	Certification	SWRCB Water Distribution Grade V
Kanoff, Debbie	1002900	14-Mar-24	305.16	Lodging	PARMA 50th Anniversary Conference, Indian Wells, CA - Feb. 20, 2024
Kanoff, Debbie	1002900	14-Mar-24	305.16	Lodging	PARMA 50th Anniversary Conference, Indian Wells, CA - Feb. 21, 2024
Kanoff, Debbie	1002900	14-Mar-24	305.16	Lodging	PARMA 50th Anniversary Conference, Indian Wells, CA - Feb. 22, 2024
Ledesma, Alex	1002964	21-Mar-24	250.00	Other(Misc)	Safety shoe allowance
Norman, Tammy	1002841	7-Mar-24	161.88	Other(Misc)	ESRI meeting Feb. 28, 2024 lunch provided
Smithson, Christopher	1003036	28-Mar-24	326.25	Lodging	Gartner Data & Analytics Summit, Orlando, FL - Mar. 11, 2024
Smithson, Christopher	1003036	28-Mar-24	326.25	Lodging	Gartner Data & Analytics Summit, Orlando, FL - Mar. 12, 2024
Swift, lan	1002908	14-Mar-24	250.00	Other(Misc)	Safety shoe allowance
Torres, Nicole	1002849	7-Mar-24	125.00	Other(Misc)	Safety shoe allowance
Villella, Aaren	1002850	7-Mar-24	100.37	Mileage	Overtime Feb. 23, 2024
Villella, Aaren	1002982	21-Mar-24	100.37	Mileage	Overtime Mar. 3, 2024
Villella, Aaren	1002982	21-Mar-24	100.37	Mileage	Overtime Mar. 13, 2024
Villella, Aaren	1002982	21-Mar-24	100.37	Mileage	Overtime Mar. 15, 2024
Villella, Aaren	1002982	21-Mar-24	100.37	Mileage	Overtime Mar. 16, 2024
Villella, Aaren	1003037	28-Mar-24	100.37	Mileage	Overtime Mar. 18, 2024
Zamora, Victor	1002912	14-Mar-24	213.94	Other(Misc)	Shadetree expense for soil additives
Zamora, Victor	1002983	21-Mar-24	120.31	Other(Misc)	Shadetree refreshment reimbursement
		Total Amount:	\$6,224.53		

April 22, 2024

Prepared by: V. Li / C. Smithson

Submitted by: N. Adly

Approved by: Paul A. Cook

CONSENT CALENDAR

FISCAL YEAR 2023-24 IRWD GUIDING PRINCIPLES SCORECARD

SUMMARY:

The IRWD Guiding Principles Scorecard through the third quarter of Fiscal Year (FY) 2023-24 is provided as Exhibit "A". This document reflects the critical performance measures that gauge the District's key business objectives, based on the Board-adopted Guiding Principles.

BACKGROUND:

IRWD's Guiding Principles Scorecard is based on four Board-adopted Guiding Principles used to achieve its vision. These principles relate to: 1) Customer Service, 2) Resource Management, 3) Employee Development, and 4) Community Leadership. The Scorecard includes measures that reflect operating performance, financial, customer and other key measures that provide an overview of the ongoing operations of IRWD. Staff has also included additional detailed information on certain selected key indicators.

FISCAL IMPACTS:

Not applicable.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

RECOMMENDATION:

RECEIVE AND FILE.

LIST OF EXHIBITS:

Exhibit "A" – IRWD Guiding Principles Scorecard

IRVINE RANCH WATER DISTRICT

Guiding Principles Closer Perspective

Through the Third Quarter of Fiscal Year 2023-24



Water Supply (in Acre Feet)*

Resource Management

Potable TOTAL 40,906 42,988 45,000 ■ Baker 40,000 5,458 35,000 ■ Imported 30,000 25,000 Clear Wells 21,357 20,414 20,000 DATS 15,000 **21 & 22** 10,000 5,000 2,017 ■ PTP 0 Actual Projection

0

0

0

Q2 2023

0

0

Q3 2023

0

Q4 2023

1

Q1 2024

0

Q1 2023

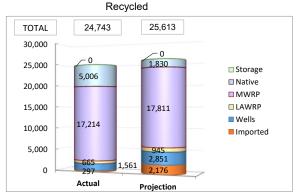
AQMD

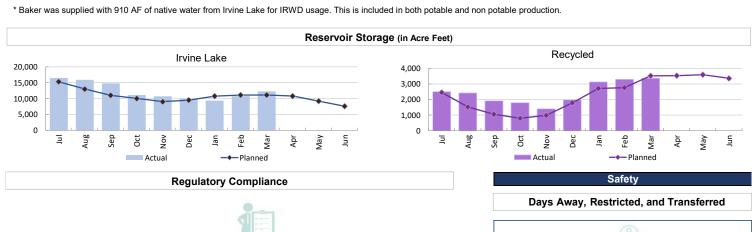
Plants

0

Q4 2022

Sewer Spills





3.3

4.5

2.2

3

0

0

0

April 22, 2024

Prepared by: K. Lew / B. Rios / E. Akiyoshi

Submitted by: K. Burton

Approved by: Paul A. Cook

CONSENT CALENDAR

PLANNING AREA 51 HERITAGE FIELDS CAPITAL FACILITIES

SUMMARY:

Heritage Fields, LLC is proceeding with development of Planning Area 51 (Great Park), which includes the construction of streets, storm drains, domestic water, sanitary sewer, and recycled water improvements. As part of the development, Heritage Fields will construct IRWD capital facilities under an existing Supplemental Reimbursement Agreement (SRA). Staff recommends that the Board:

- Authorize the General Manager to accept Heritage Fields' construction contract with FYDAQ Company, Inc. in the amount of \$619,993.64 for the Planning Area 51 District 2 Whatney Capital Sanitary Sewer Improvements project; and
- Authorize the addition of Planning Area 51 District 2 Whatney Capital Sanitary Sewer Improvements, Project 12823 in the amount of \$875,000 to the FY 2023-24 Capital Budget.

BACKGROUND:

Heritage Fields is moving forward with the Planning Area 51 District 2 commercial development. As shown in Exhibit "A", the triangular development site is bordered by Bake Parkway to the north, the I-5 Freeway to the west, and the existing Irvine Auto Center and other commercial lots to the east. Heritage Fields is constructing storm drain improvements for the site and will need to relocate IRWD's 18-inch sanitary sewer. IRWD and Heritage Fields worked together to upsize the existing sewer line to 24 inches, providing greater operational flexibility. IRWD will fund the costs related to the upsizing. Staff negotiated the upsize costs based on recent construction bids for 18-inch sewer construction in the Great Park area. The required IRWD capital facilities are documented in the September 2016 Planning Area 51 Sub-Area Master Plan Update and all subsequent addendums and updates prepared by Stantec.

The design and construction of the IRWD facilities will be performed under the terms of the Master Reimbursement Agreement approved by the Board in August 2012 and as further refined in the SRA dated November 25, 2019.

Whatney Sanitary Sewer Improvements:

The Whatney Capital Sanitary Sewer Improvements consist of installing approximately 800 feet of 24-inch diameter sanitary sewer pipeline. Heritage Fields retained Hunsaker and Associates and Proactive Engineering to prepare the design plans and received bids from four contractors. Based on IRWD paying for the upsize from 18 to 24 inches, as compared to recent construction in the area, IRWD will pay for 54.5% of the total construction. The cost increase for the upsized pipeline is attributable to higher materials costs, larger manholes, and a larger steel casing pipe.

Consent Calendar: Planning Area 51 Heritage Fields Capital Facilities

April 22, 2024

Page 2

Heritage Fields recommends awarding the construction contract to the lowest bidder, L&S Construction Inc., for a bid amount of \$619,993.64 as shown in Exhibit "B". In addition, Heritage Fields has received consultant proposals for geotechnical observation and testing, surveying, construction support services, and field archeological and paleontological monitoring. Staff has reviewed the consultant proposals and the construction bids and find the amounts to be acceptable. A summary of the Whatney Sanitary Sewer Improvements costs are shown below:

Design (Hunsaker)	\$1,744.68
Design (Proactive)	\$18,809.79
Construction (L&S)	\$619,993.64
Geotechnical Services (Engeo)	\$12,049.17
Surveying (Hunsaker)	\$29,059.77
Construction Engineering (Proactive)	\$5,332.17
Archeo/Paleo Monitoring	\$4,361.69
Heritage Fields Administration Fee (1%)	<u>\$6,199.94</u>
	\$697,550.85

FISCAL IMPACTS:

Staff requests the addition of Project 12823 to the FY 2023-24 Capital Budget as follows:

Project	Current	Addition	Total
No.	Budget	<reduction></reduction>	Budget
12823	\$0	\$875,000	\$875,000

ENVIRONMENTAL COMPLIANCE:

Construction of capital sanitary sewer facilities for the Great Park Development is subject to CEQA. In conformance with the California Code of Regulations Title 14, Chapter 3, Article 7 an Environmental Impact Report was certified by the City of Irvine, the lead agency on April 4, 2012 (SCH# 2002101020).

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on April 16, 2024.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO ACCEPT HERITAGE FIELDS' CONSTRUCTION CONTRACT WITH L&S CONSTRUCTION, INC. IN THE AMOUNT OF \$619,993.64 FOR THE PLANNING AREA 51 DISTRICT 2 WHATNEY CAPITAL SANITARY SEWER IMPROVEMENTS, PROJECT 12823; AND AUTHORIZE THE ADDITION OF PROJECT 12823 IN THE AMOUNT OF \$875,000 TO THE FY 2023-24 CAPITAL BUDGET FOR THE PLANNING AREA 51 DISTRICT 2 WHATNEY CAPITAL SANITARY SEWER IMPROVEMENTS.

Consent Calendar: Planning Area 51 Heritage Fields Capital Facilities

April 22, 2024

Page 3

LIST OF EXHIBITS:

Exhibit "A" – Location Map

Exhibit "B" – Bid Summary, Whatney Capital Sanitary Sewer Improvements

Exhibit "A"

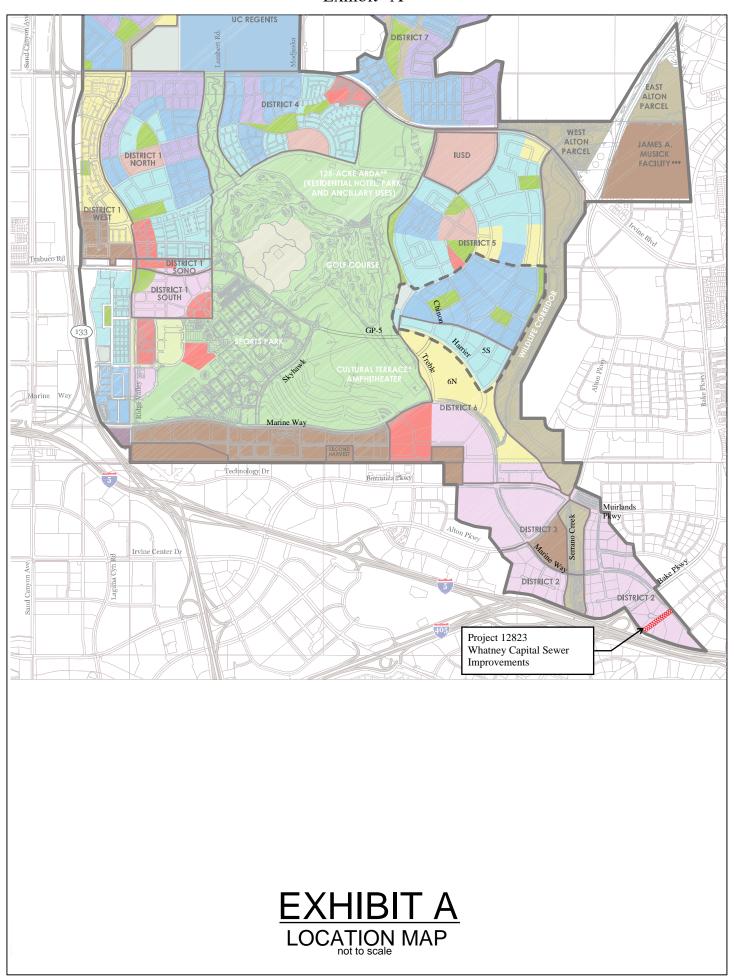


Exhibit "B"

PROJECT: Whatney Sewer Capital and Non-Capital IRWD Code 8001 OWNER: Heritage Fields El Toro, LLC **CAP BID SPREAD** KEC **Engineer's Estimate** L&S - LOW Fydaq Leatherwood CAPITAL - D2 WHATNEY SEWER IRWD - CODE 8001 Capital - Whatney Sewer, IRWD Code 8001 Capital - Whatney Sewer, IRWD Code 8001 A.1 SUB-TOTAL, SUBSECTION A.1 - IRWD Capital General Items
A.2 SUB-TOTAL, SUBSECTION A.2 - Whatney Sewer - Capital 40.000.00 25,600.00 32.253.1 58.500.00 61.075.00 1,324,370.00 1,111,562.00 1.188.372.50 1,526,100.00 1,263,601.00 SUB-TOTAL, SUBSECTION A.3 - Additional Capital Construction Items on Plans not Identified in the Bid CPS (List Items) TOTAL Capital - Whatney Sewer, IRWD Code 8001 CONTRACT PRICE SCHEDULE \$1,364,370.00 \$1,137,162.00 \$1,220,625.67 \$1,584,600.00 \$1,324,676.00 \$1,364,370.00 IRWD CAPITAL GRAND TOTAL - CONTRACT PRICE SCHEDULE \$1,137,162.00 \$1,220,625.67 \$1,584,600.00 \$1,324,676.00 **CAPITAL IMPROVEMENTS - Whatney Sewer** Whatney Sewer - Capital CODE IRWD Capital General Items
126-01 Mobilization, (Not to Exceed 2% of Section A) QTY UNIT UNIT PRICE AMOUNT UNIT PRICE AMOUNT UNIT PRICE AMOUNT AMOUNT UNIT PRICE 126-01 Develop Construction Water Supply & Storage 002 1 LS \$ 2 500 00 9 2 500 00 1.000.00 \$ 1 000 00 5,575.00 13,500.00 003 126-01 Performance, Labor and Payment Bond 1 LS \$ 20,000.00 \$ 20.000.00 14.900.00 \$ 14.900.00 004 126-01 SWPPP & BMP's (Interim Erosion Control) 5.000.00 \$ 5,000.00 1.200.00 \$ 1,200.00 15,000.00 5,000.00 005 126-01 Traffic Control 1 LS \$ 2,500.00 \$ 1,000.00 A.1 SUB-TOTAL, SUBSECTION A.1 - IRWD Capital General Items 40,000.00 25,600.00 61,075.00 QUAN UNIT UNIT PRICE AMOUNT UNIT PRICE AMOUNT NO. CODE Whatney Sewer - Capital OUNT Furnish and install 24" PVC Green C900 (DR14) sewer main with sewer indicator tape per 006 IRWD std. dwg. S-6 and specifications, pressure test and acceptance, complete.

Furnish and install 24* PVC Green C900 (DR14) sewer main within steel casing including 208 1F 600.00 \$ 124,800.00 590.00 122,720.00 156,000.00 007 586 LF 600.00 \$ 351.600.00 500.00 spacers, pressure test and acceptance, complete. 293,000.00 334,020.00 800 130-05 Furnish and install 42" steel casing with minimum wall thickness of 1/2" per IRWD std. dwg. S-586 LF 700.00 410,200.00 640.00 375.040.00 351,600.00 including bedding, end seals, complete Construct 60" diameter manhole per IRWD std. dwg. S-1 with 30" diameter manhole frame and 009 130-05 EΑ 20,000.00 \$ 80 000 00 18 000 00 72,000.00 114,000.00 010 Construct 60" diameter manhole per IRWD std. dwg. S-1 with 30" diameter manhole frame and 130-05 EΑ 25,000.00 \$ 25,000.00 21,500.00 21,500.00 34,150.00 cover, reinforcement per detain on plans, complete. 130-05 Rechannel existing manhole per detail on the plans, and join existing sewer, complete 011 FΑ 5,000,00 \$ 5.000.00 14 500 00 \$ 14 500 00 7.500.00 130-05 Join existing sewer at manhole EΑ 5,000.00 \$ 5,000.00 17,000.00 \$ 17,000.00 4,750.00 Furnish and install casing test stations per IRWD std. dwg. CP-3 including meter box, wire EΑ 4,000.00 \$ 24,000.00 3 800 00 22,800.00 21,000.00 anodes, connection to casing, complete.

Remove and dispose of 18" VCP sewer pipe including, trenching, back filling, disposal of pipe 014 130-05

	Construct all weather access road per details on plans, CMB per CFD stockpile (within 5 miles								
	of project site), compacted CMB, compacted subgrade per soils engineer, complete (deletable	24,340	SF	7.50	\$	182,550.00			
A.2	SUB-TOTAL, SUBSECTION A.2 - Whatney Sewer - Capita	ı			\$	1,324,370.00			
NO.	CODE Additional Capital Construction Items on Plans not Identified in the Bid CPS (List Items)								
018					\$				
019					\$	-			
020					\$	-			
021					\$	-			
022					\$				
	SUB-TOTAL, SUBSECTION A.3 - Additional Capital Construction Items on Plans no	t			•				
A.3	Identified in the Bid CPS (List Items)			*				
Α	A TOTAL WHATNEY SEWER - CAPITAL \$1,364,370.00								

Remove and dispose of 15" VCP sewer pipe including, trenching, back filling, disposal of pipe off site, complete
Remove and Dispose of Existing sewer manhole and base including demolition of concrete to

minus, haul and place into CFD stockpile (within 5 miles of project site) for crushing, manhole

TOTAL WHATNEY SEWER - IRWD FUNDED PORTION (36.36%)

cover and frame to be disposed of off site, complete

016

017

130-05

130-05

LF 706

EΑ

120.00 \$

100.00

10,000.00 \$

84,720.00

11,500.00

20,000.00

77.00

6,500.00 \$

4 00 \$

\$ \$ \$

54 362 00

8,280.00

13.000.00

97.360.00

1,111,562.00

\$1,137,162.00

\$413,472.10

UNIT PRICE		AMOUNI
\$ 15,260.00	\$	15,260.00
\$ 1,000.00	\$	1,000.00
\$ 13,493.17	\$	13,493.17
\$ 1,000.00	\$	1,000.00
\$ 1,500.00	\$	1,500.00
	\$	32,253.17
		AMOUNT
289.00	\$	60,112.00
559.00	\$	327,574.00
667.25	\$	391,008.50
15,225.00	\$	60,900.00
22,000.00	\$	22,000.00
2,388.00	\$	2,388.00
3,500.00	\$	3,500.00
4,100.00	\$	24,600.00
175.00	\$	123,550.00
175.00	\$	20,125.00
18,500.00	\$	37,000.00
4.75	\$	115,615.00
	\$	1,188,372.50
4.75		
	\$	
	\$	-
	\$	-
	\$	
	\$	
	\$	-
	-	
		\$1,220,625.67
		+

30,000.00	\$	30,000.00	\$	22,000.00	\$ 22,000.00
5,000.00 \$ 5,000.00		\$	5,575.00	\$ 5,575.00	
20,000.00	\$	20,000.00	\$	13,500.00	\$ 13,500.00
2,500.00	\$	2,500.00	\$	15,000.00	\$ 15,000.00
1,000.00	\$	1,000.00	\$	5,000.00	\$ 5,000.00
	\$	58,500.00			\$ 61,075.00
UNIT PRICE		AMOUNT	U	INIT PRICE	AMOUNT
600.00	\$	124,800.00		750.00	\$ 156,000.00
600.00	\$	351,600.00		570.00	\$ 334,020.00
950.00	\$	556,700.00		600.00	\$ 351,600.00
20,000.00	\$	80,000.00		28,500.00	\$ 114,000.00
25,000.00	\$	25,000.00		34,150.00	\$ 34,150.00
2,500.00	\$	2,500.00		7,500.00	\$ 7,500.00
10,000.00	\$	10,000.00		4,750.00	\$ 4,750.00
2,500.00	\$	15,000.00		3,500.00	\$ 21,000.00
100.00	\$	70,600.00		91.00	\$ 64,246.00
100.00	\$	11,500.00		133.00	\$ 15,295.00
17,500.00	\$	35,000.00		7,500.00	\$ 15,000.00
10.00	\$	243,400.00		6.00	\$ 146,040.00
	\$	1,526,100.00			\$ 1,263,601.00
			-		
1	\$	-	-		\$ -
	\$	-			\$ -
	\$	-			\$ -
	s				\$ -
	\$	-			\$ -
	\$	-		'!	\$ -
•					
		\$ <u>1,584,600.00</u>			\$ <u>1,324,676.00</u>
			-		

April 22, 2024

Prepared by: A. Uk / K. Welch

Submitted by: F. Sanchez / P. Weghorst

Approved by: Paul A. Cook

CONSENT CALENDAR

FINAL INITIAL STUDY/MITIGATED NEGATIVE DECLARATION FOR THE LAKE FOREST WOODS SEWER IMPROVEMENTS PROJECT

SUMMARY:

A Final Initial Study/Mitigated Negative Declaration (IS/MND) has been prepared for the proposed Lake Forest Woods Sewer Improvements Project (Improvements Project). The project will replace, relocate, and protect existing sewer facilities and construct access improvements within The Woods community in Lake Forest. The improvements will reduce the risk of damage to IRWD sewer facilities from erosion during storm events. Staff recommends that the Board adopt the Final IS/MND and the associated Mitigation Monitoring and Reporting Program (MMRP), approve the proposed project, and authorize staff to file a Notice of Determination.

BACKGROUND:

The Improvements Project will replace and relocate portions of IRWD's Lake Forest Woods sewer system located within Upper San Diego Creek and tributary channels. The purpose of the project is to reduce the risk of sewer pipe failures during storm-induced erosion events. The existing sewer system was constructed in 1971 when it was common practice to construct gravity sewers in and around creeks. Since the initial construction, significant erosion in the creek and tributary has reduced the amount of cover over the existing sewer pipes to less than one foot in some locations. Erosion of the creek banks has also encroached into The Woods Community homeowners' association walking paths adjacent to the creek. In some areas, the sewer pipe has been exposed by scour, and several of the manholes are inaccessible due to their locations within the heavily eroded creek channel. The project is located within The Woods community in Lake Forest, which is bounded by Lake Forest Drive, Toledo Way, Ridge Route, and Jeronimo Road, as shown on the map attached as Exhibit "A".

Lake Forest Woods Sewer Improvements Project:

Previously, IRWD relocated a short segment of the sewer out of the creek. In February 2023, emergency riprap protection measures were installed to protect a manhole and associated pipeline, which were exposed during large storm events. The more comprehensive Improvements Project is needed to provide a permanent solution to protect the sewer system over the long term and to avoid emergency repairs as well as potential sewer spills. The scope of work for the Improvements Project includes:

- Replacing the existing sewer pipe with the highest risk of failure and least remaining cover with new sewer segments located outside of the scour envelope of the creek;
- Eliminating sewer crossings of the creek where possible;
- Installing check dams in the Glenwood Tributary and San Diego Creek to reduce scour; and

No. 9 Lake Forest Woods MND

Consent Calendar: Final Initial Study/Mitigated Negative Declaration for the Lake Forest Woods Sewer Improvements Project

April 22, 2024

Page 2

• Improving access roads to the existing sewer facilities for maintenance purposes.

Environmental Review:

A Draft IS/MND for the proposed Improvements Project was prepared by environmental consultants at LSA. On January 12, 2024, the Draft IS/MND was circulated for a 30-day public review period pursuant to the California Environmental Quality Act (CEQA). Staff did not receive any comments during the public review period that concluded on February 12, 2024. The draft document was recirculated for another 30-day public review period starting on February 16. Staff did not receive any comments during the recirculated public review period that ended on March 18, 2024. Staff finalized the Draft IS/MND and worked with LSA to prepare an MMRP. The MMRP and the Final IS/MND are provided as Exhibit "B". Staff recommends the Board adopt the Final IS/MND and the associated MMRP, approve the proposed project, and authorize staff to file a Notice of Determination.

FISCAL IMPACTS:

The funds necessary for the environmental review and required filing fees associated with the proposed project are included in Project 11123 of the Fiscal Year 2023-24 Capital Budget. The existing budget and Expenditure Authorizations are sufficient.

ENVIRONMENTAL COMPLIANCE:

This project is subject to CEQA and in conformance with California Code of Regulations Title 14, Chapter 3, Article 6. A Notice of Intent (NOI) to adopt a Mitigated Negative Declaration was filed with the County of Orange and the State Clearinghouse on January 12, 2024. Pursuant to State Guideline §15073, the Initial Study/Mitigated Negative Declaration (IS/MND) was made available for public review ending on March 18, 2024. IRWD did not receive any comments during the extended review period.

COMMITTEE STATUS:

This item was not reviewed by Committee.

RECOMMENDATION:

THAT THE BOARD FIND ON THE BASIS OF THE WHOLE RECORD BEFORE IT, INCLUDING THE FINAL INITIAL STUDY/MITIGATED NEGATIVE DECLARATION AND COMMENTS RECEIVED, THAT THERE IS NO SUBSTANTIAL EVIDENCE THAT THE LAKE FOREST WOODS SEWER IMPROVEMENTS PROJECT WILL HAVE A SIGNIFICANT EFFECT ON THE ENVIRONMENT AND THAT THE FINAL MITIGATED NEGATIVE DECLARATION REFLECTS IRWD'S INDEPENDENT JUDGMENT AND ANALYSIS; ADOPT THE PROPOSED FINAL MITIGATED NEGATIVE DECLARATION FOR THE PROJECT AND THE ASSOCIATED MITIGATION MONITORING AND REPORTING PROGRAM, APPROVE THE PROJECT, AND AUTHORIZE STAFF TO POST AND FILE A NOTICE OF DETERMINATION.

Consent Calendar: Final Initial Study/Mitigated Negative Declaration for the Lake Forest Woods Sewer Improvements Project

April 22, 2024

Page 3

LIST OF EXHIBITS:

Exhibit "A" – Lake Forest Woods Sewer Improvements Project Location Map

Exhibit "B" – Lake Forest Woods Sewer Improvements Project Final Initial Study/Mitigated Negative Declaration

EXHIBIT A: LAKE FOREST WOODS LOCATION MAP

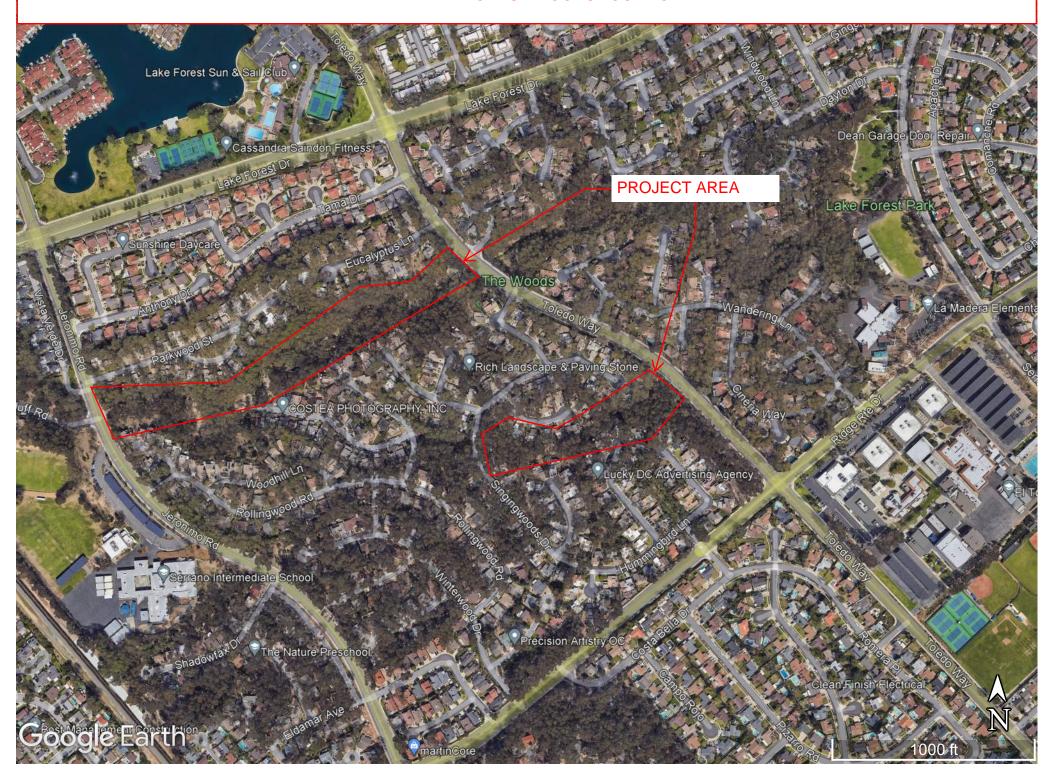


Exhibit "B"

A COPY OF EXHIBIT "B" CAN BE OBTAINED FROM THE DISTRICT SECRETARY AND IS AVAILABLE FOR DOWNLOAD AT THE FOLLOWING LINK:

https://www.irwd.com/images/pdf/doing-business/environmental-documents/env-documents-2024/The%20Woods FinalDraft%20IS MND%20w.%20Errata.pdf

April 22, 2024

Prepared by: F. Tedescucci Submitted by: W. Chambers

Approved by: Paul A. Cook

CONSENT CALENDAR

CONSTRUCTION SERVICES CREW TRUCK UTILITY BED PURCHASE

SUMMARY:

IRWD Construction Services Department utilizes specialized crew trucks to efficiently transport personnel, tools, traffic control equipment, lighting, and all essential construction materials in a single, consolidated vehicle. In December 2023, two new truck chassis were ordered, and upon delivery, new utility beds need to be installed onto the chassis. Staff recommends that the Board authorize the General Manager to execute a purchase order with PB Loader Corporation in the amount of \$334,702 (\$167,351 per unit) for the purchase and installation of two new crew truck utility beds.

BACKGROUND:

IRWD's Construction Services crews rely on specialized crew trucks as the backbone of field operations. The versatile vehicles transport crews, tools, and equipment needed to install, replace, and maintain critical infrastructure throughout the District, including water lines, sewer systems, and maintenance access points. In emergencies, staff in these trucks are typically the first to respond, expediting situation stabilization and the repair work.

Crew trucks are specially designed with utility beds that provide secure and organized storage for the necessary tools and supplies. This consolidated approach eliminates the need for multiple dispatches and ensures crews have everything they need on-site, significantly improving safety and efficiency and reducing response times.

The two existing crew trucks, acquired in 2000 and 2007, have significantly exceeded their expected lifespan, accumulating over 9,310 and 6,227 hours of operation, respectively (equivalent to roughly 558,600 and 373,620 miles). Their age, condition, and increased maintenance needs necessitate replacement to guarantee continued operational effectiveness and crew safety.

New truck chassis were purchased in December 2023 and will be delivered in June 2024. The new chassis will be shipped directly to the body fabricator to be outfitted with new utility beds. The fully equipped crew trucks are expected to be operational by early 2025.

Bid Process:

Staff solicited proposals for two new crew truck utility beds from Feterl Body by Teamco Inc (Feterl) and PB Loader Corporation, both approved vendors through the Sourcewell Cooperative Purchasing Agreement. Staff received proposals from both distributors, with Feterl bidding \$190,605 per unit and PB Loader Corporation submitting the lowest conforming bid at a total price of \$167,351 per unit. PB Loader Corporation's proposal is provided as Exhibit "A".

No. 10 Crew Truck Utility Beds

Consent Calendar: Construction Services Crew Truck Utility Bed Purchase

April 22, 2024

Page 2

FISCAL IMPACTS:

Fiscal Year 2024-25 Capital Budget includes sufficient funds to purchase the crew truck utility beds.

ENVIRONMENTAL COMPLIANCE:

This item is not a project as defined in the California Environmental Quality Act (CEQA), Code of Regulations, Title 14, Chapter 3, Section 15378.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PURCHASE ORDER WITH PB LOADER CORPORATION IN THE AMOUNT OF \$334,702 (\$167,351 PER UNIT) FOR THE PURCHASE AND INSTALLATION OF TWO NEW CREW TRUCK UTILITY BEDS.

LIST OF EXHIBITS:

Exhibit "A" – PB Loader Corporation Proposal

EXHIBIT "A"



CUSTOMER: IRVINE RANCH WATER DISTRICT (IRWD) IRVINE, CALIFORNIA SOURCEWELL MEMBER ACCOUNT # 20158

PROJECT: 16' SERVICE TRUCK

QUOTATION NO. 12128

DATE: 1/31/2024
TERMS: NET 30
F.O.B: IRVINE
MFG PRODUCT: SEE NOTES
INSTALL: SEE NOTES

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- ONE (1) WILTON TRADESMAN VISE MODEL 1780A-9" WILE-SIZE, MOUNTED ON WORKSENCH BUMPER, PRIVES BY ONE (1) IGLOG 5-GAL, HAND WASH JUG LOCATED AT REAR OF CR SIGE PACK JOK (1) IGLOG 5-GAL, HAND WASH JUG LOCATED AT REAR OF CR SIGE PACK JOK (1) IGLOG 5-GAL, HAND WASH JUG LOCATED AT REAR OF CR SIGE PACK JOK (1) IGLOG 5-GAL, HAND WASH JUG LOCATED AT REAR OF CR SIGE PACK JOK (1) IGLOG 5-GAL, HAND WASH JUG LOCATED AT REAR OF CR SIGE PACK JOK (1) IGLOG 5-GAL, HAND WASH JUG LOCATED AT REAR OF CR SIGE PACK JOK (1) IGLOG 5-GAL, HAND WASH JUG LOCATED AT REAR OF CR SIGE PACK JOK (1) IGLOG 5-GAL, HAND WASH JUG LOCATED AT REAR OF CR SIGE PACK JOK (1) IGLOG 5-GAL SIGE PACK JOK (2) STORAGE BASEF ON 1070 OF CACH SIGE PACK MAUNTED ON POLE AVOVE LYOUNG 15 TORAGE BASEF ON 1070 OF CACH SIGE PACK JOK (1) IGLOG 5-GAL SIGE PACK JOK (2) IGLOG 5-GAL SIGE PACK JOK (2) IGLOG 5-GAL SIGE PACK JOK (2) IGLOG 5-GAL SIGE PACK JOK (3) IGLOG 5-GAL SIGE PACK JOK (3) IGLOG 5-GAL SIGE PACK JOK (3) IGLOG 5-GAL SIGE PACK JOK (4) IGLOG 5-GAL SIGE PACK JOK (5) IGLOG 5-GAL SIGE PACK JOK (6) IGLOG 5-GAL SIGE PACK JOK (6) IGLOG 5-GAL SIGE PACK JOK (7) IGLO			- ONE (1) AIR HOSE CONNECTOR WITH GATE VALVE AND CONNECTOR FITTING (TBD) MOUNTED AT FRONT BUMBER		
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- ONE (1) 150 WART 120 DC PIONEER LIGHT HEAD Model PEHCPI MOUNTED ON POLE AVOVE - TWO (2) STORAGE BARKET ON TO 9 CEACH SIDE PACK AMBUHACTURE PERM STRUCTURAL STEEL AND FLATTERED EXPANDED META., 15° TALL OUTSIDE WALL AND 12° TALL INTERIOR WALL WITH WIDTH TO BE - BACK UP CAMERS SYSTEM WITH HOSE CAMERA REAR AND 7° COLOR MONTOR IN CAB - ONE (1) 110 VOLT OF DOUBLE OUTLET AT REAR OF DRIVER SIDE PACK MOUNTED FLUSH AND WATER TIGHT OUTLET COVERS - EIGHT (8) WORK UGHTS MIDD SERIES PAO WHITE THE ON DEAD SIZE WIEDO TO INDIVIDUAL.S WITCH FRONT GRILL TWO ASSISTED SERIES PAO WHITE THE ON DEAD SIZE WIEDO TO INDIVIDUAL.S WITCH FRONT GRILL TWO ASSISTED AS END AND THE THE ON DEAD SIZE WIEDO TO INDIVIDUAL.S WITCH FRONT GRILL TWO ASSISTED AS END AS INDIVIDED ON A DEAD THAT WO MOUNT AS HIGH AS POSSIBLE ON FRONT GRILL TWO ASSISTED AS THE ARM OF BODY AND TWO AT WHEEL WELL - TWO (2) TIBE STYLE SHOVEL HOLDERS MOUNTED ON EACH SIDE COMPARTMENT AT FRONT OF SIDE COMPARMENT BETWEEN BODY AND CHASSIS - WELDING REEL, WITH 100 FEET OF 300 WELDING CABLE - ONE PUSH BUTTON CONTROL IN CHASSIS FOR LIGHTING - VERLING REEL, WITH 100 FEET OF 300 WELDING CABLE - ONE PUSH BUTTON CONTROL IN CHASSIS FOR LIGHTING - VERLING REPROXY WITH STORAGE CABINET WITH 9 DRAWERS (8) 30.5° W X 6° H X 20 # DRAWER - AS WIDE GAPPROXY WITH STORAGE CABINET WITH 9 DRAWERS (8) 30.5° W X 6° H X 20 # DRAWER SET - AS WIDE GAPPROXY WITH ONE (1) TO SHELF MID-POINT AND THE DEAD FOR THE ADDRESS BELOW FOR FOUR (4) CUBBY HOLES - AS WIDE CAPPROXY WITH ONE (1) TO SHELF MID-POINT AND THE DEAD FOR THE ADDRESS BELOW FOR FOUR (4) CUBBY HOLES - AS WIDE CAPPROXY WITH ONE (1) TO SHELF MID-POINT AND THE DEAD FOR THE ADDRESS BELOW FOR FOUR (4) CUBBY HOLES - AS WIDE CAPPROXY WITH ONE (1) TO SHELF MID-POINT AND THE DEAD FOR THE ADDRESS BELOW FOR FOUR (4) CUBBY HOLES - AS WIDE CAPPROXY WITH ONE COMPARTMENT AND ACCESSORIES > - AS WIDE CAPPROXY WITH ONE COMPARTMENT AND ACCESSORIES > - AS WIDE CAPPROXY WITH STORAGE CABINET WITH (6) 20° X 27 H X 200 # ADDRESS FOR BATTERY - AS WIDE CAPPROXY WITH STORAGE			- TWO (2) IGLOO 5 GALLON WATER JUGS WITH MOUNTING BRACKETS, DRIVER SIDE REAR OF BODY		
- TWO (2) STORAGE BASKET ON TOP OF EACH SIDE PACK MANUFACTURED FROM STRUCTURAL STEEL AND PLATTENED EXPANDED METAL, 18T FLAL OUTSIDE WAL AND 12" TALL INTERFORM PALL WITH WOTH TO BE APPROXIMATELY THE SAME WITH AS THE SIDE PACK. - PARTICLE OF THE SAME WITH AS THE SIDE PACK. - PARTICLE OF THE SAME WITH AS THE SIDE PACK. - PARTICLE OF THE SAME WITH AS THE SIDE PACK. - PARTICLE OF THE SAME WITH AS THE SIDE PACK. - PARTICLE OF THE SAME WITH AS THE SIDE PACK. - PARTICLE OF THE SAME WITH AS THE SIDE PACK. - PARTICLE OF THE SAME WITH AS THE SIDE PACK. - PARTICLE OF THE SAME WITH AS THE SIDE PACK. - PARTICLE OF THE SAME WITH AS THE SIDE PACK. - PARTICLE OF THE SAME WITH AS THE SIDE OF THE SIDE					
- BACK UP CAMERA SYSTEM WITH ONE CAMERA REAR AND TO COLOR MONITOR IN CAB - ONE (1) 110 VOLT GIP DOUBLE OUT LET AT REAR OF BOTRY SIDE PACK MONITOR IN LOSH AND WATER TIGHT OUTLET COVERS - EIGHT (1) WOR (LIGHTS-RIGID D SERIES PRO, (WHITE) FOUR ON EACH SIDE WIRED TO INDIVIDUAL SWITCH - FRONT GRILL, TWO AS HIGH AS POSSIBLE AT REAR OF BODY AND TWO AT WHEEL WELL - TWO (2) TUBE STYRE SHOVEH LOIDER MOUNTEO ON EACH SIDE COMPARTMENT AT FRONT OF SIDE COMPARMENT BETWEEN BODY AND CHASSIS - WELDING REGI. WITH 100 FEET OF 3IO WELDING CABLE - ONE PUSH BUTTON CONTROL IN CHASSIS FOR LIGHTING - STORY OF THE CONTROL OF THE CONTROL OF SIDE COMPARMENT AT FRONT OF SIDE COMPARMENT BETWEEN BODY AND CHASSIS - WELDING REGI. WITH 100 FEET OF 3IO WELDING CABLE - ONE PUSH BUTTON CONTROL IN CHASSIS FOR LIGHTING - AS THE CONTROL OF THE CONTROL OF SIDE COMPARMENT AT FRONT OF SIDE COMPARMENT BETWEEN BODY AND CHASSIS - WE MIDE (APPROX) WITH SIDE CARE CABINET WITH BOTTOM SIDE CONTROL OF THE COMPARMENT AND CACESSORIES >> - 45° WIDE (APPROX) WITH SIDE CABLE CABINET WITH BOTTOM SIDE CONTROL OF THE COMPARMENT AND CACESSORIES >> - 46° WIDE (APPROX) WITH SIDE CABINET WITH BOTROM SHELVES BELOW IT BESIDE DRAWER SET - CORPURED SIDE SIDE SIDE SIDE OF SHELVES AND VERTICAL DIVIDERS SHELOW IT BESIDE DRAWER SET - 46° WIDE (APPROX) WITH TOME (1) TOP SHELE MID-POINT AND THREE DIVIDERS BELOW FOR FOUR (4) CUBBY HOLES - 46° WIDE (APPROX) WITH SIDE OF COMPARTMENT AND ACCESSORIES >> - 46° WIDE (APPROX) TO A SHELVES AND CARE SHELD			- TWO (2) STORAGE BASKET ON TOP OF EACH SIDE PACK MANUFACTURED FROM STRUCTURAL STEEL AND		
- ONE (1) 110 VOLT GFI DOUBLE OUTLET AT REAR OF DRIVER SIDE PACK MOUNTED FLUSH AND WATER TIGHT OUTLET COVINES - EIGHT (8) WORK LIGHTS-RIGID D SERIES PRO (WHITE) FOUR ON EACH SIDE WIRED TO INDIVIDUAL SWITCH - SK (8) WHELEIN SV3A AMBER WARNING LIGHTS WI WHITE PUDDE LIGHT, TWO MOUNTED AS HIGH AS POSSIBLE ON HELD AND STAND AND CHASSIS - WELDING REEL WITH 100 FEET OF 300 WELDING CABLE - ONE PUSH BUTTON CONTROL IN CHASSIS FOR LIGHTING **C PRIVER SIDE 1ST VERTICAL COMPARTMENT AND ACCESSORIES >> - 45° WIDE (APPROX) WITH SHELVES AND VERTICAL DIVIDERS PER PICTURES WITH BOTTOM SLIDE-OUT TRAY FOR PUMP RATED FOR 300 BES. WITH LOCK-IN, LOCK-COUTL **C PRIVER SIDE 1ST VERTICAL COMPARTMENT AND ACCESSORIES >> - 45° WIDE (APPROX) WITH SHELVES AND VERTICAL DIVIDERS PER PICTURES WITH BOTTOM SLIDE-OUT TRAY FOR PUMP RATED FOR 300 BES. WITH LOCK-IN, LOCK-COUTL **C PRIVER SIDE 28D VERTICAL COMPARTMENT AND ACCESSORIES >> - 45° WIDE (APPROX) WITH STORAGE CABINET WITH BOTROWERS, (9) 300.5° W x" "H, (3) 30.5° W x" "H x 230 # DRAWER BES AND VERTICAL COMPARTMENT AND ACCESSORIES >> - 46° WIDE (APPROX) WITH STORAGE CABINET WITH BOTTOMS SHE BELOW IT BESIDE DRAWER SET **C PRIVER SIDE 38D HORIZONTAL COMPARTMENT AND ACCESSORIES >> - 46° WIDE (APPROX) WITH STORAGE CABINET WITH BOTTOMS PER PICTURES WITH BOTTOM SLIDE-OUT TRAY FOR PUMP HELD STORAGE AND ACCESSORIES >> - 46° WIDE (APPROX) TO RAWER SET WITH (9) 20° W x 3" H x 250 # DRAWER RATING, LOCK IN ONLY, COMPARTMENT VERY EOR OF XYACHED WITH IN X 40 PLACE COMING OUT THE BACK OF THE COMPARTMENT WITH ROLLER GUIDES **C PASSISHERS IS BUT SHOT COLL COMPARTMENT AND ACCESSORIES >> - 45° WIDE (APPROX) TO RAWER SET WITH (9) 20° W x 3" H x 250 # DRAWER RATING, FOR X 5" WITH STORAGE CABINET WITH 18" A 20° STORAGE RATING, FOR X 5" WITH STORAGE CABINET WITH BORAWERS, (4) 35° W x 5" H x 250 # DRAWER RATING, FOR X 5" WITH STORAGE CABINET WITH BORAWERS, (4) 35° W x 5" H x 250 # DRAWER RATING, (1) 35.5 W x 5" H x 250 # DRAWER RATING, (1) 35.5 W x 5" H x 250 # DRAWER RATING, (1) 35.5 W x 5" H x 250 # DRAWER RAT			APPROXIMATELY THE SAME WIDTH AS THE SIDE PACK		
- EIGHT (9) WORK LIGHTS-RIGID O SERIES PRO (WHITE) FOUR ON EACH SIDE WIRED TO INDIVIDUAL SWITCH - SIX (6) WHELEN SVA AMBER MANNING LIGHTS WITHET PUDDLE LIGHT, TWO MOUNTED AS HIGH AS POSSIBLE ON FRONT GRILL, TWO AS HIGH AS POSSIBLE AT REAR OF BODY AND TWO AT WHELE WELL - TWO (2) TIMES FYTLE SHOVER HOLDERS MOWNED TO NEACH SIDE COMPARTMENT AT FRONT OF SIDE COMPARMENT BETWEEN BODY AND CHASSIS - WELDING REEL, WITH 100 FEET F 30 WELDING CABLE - ONE PUBH BUTTON CONTROL IN CHASSIS FOR LIGHTING - KORE PUBH BUTTON CONTROL IN CHASSIS FOR LIGHTING - VERY MIDE (APPROX) WITH STREEL VES AND VERTICAL DIVIDERS PER PICTURES WITH BOTTOM SLIDE-OUT TRAY FOR PUBP PRATEE FOR 300 LBS WITH LOCK AL LOCK-OUT - CONTROL OF THE STREET FOR SIDE SHAPE AND VERTICAL DIVIDERS PER PICTURES WITH BOTTOM SLIDE-OUT TRAY FOR PUBP PRATEE FOR 300 LBS WITH LOCK AL LOCK-OUT - CONTROL OF THE STREET FOR SIDE SHAPE AND VERTICAL DIVIDERS PER PICTURES WITH BOTTOM SLIDE-OUT TRAY FOR PUBP PRATEE FOR 300 LBS WITH LOCK AL LOCK-OUT - CONTROL ON THE STREET FOR SIDE SHAPE AND VERTICAL DIVIDERS PER PICTURES WITH BOTTOM SLIDE-OUT TRAY FOR PUBP PRATEE FOR 300 LBS WITH LOCK AL LOCK-OUT - CONTROL ON THE STREET FOR SIDE SHAPE AND VERTICAL PROVIDERS - 48' WIDE (APPROX) WITH STORAGE CABINET WITH AD ACCESSORIES >> - 48' WIDE (APPROX) WITH STORAGE CABINET WITH AD ACCESSORIES >> - 48' WIDE (APPROX) TO RAWRER SET WITH BO JOZY W. 31' H. 230 # ATAINO (1) 20' W. 34' H. X 250 # DRAWER RATING, - 40' WIDE (APPROX) TO RAWRER SET WITH BO JOZY W. 31' H. 230 # ATAINO (1) 20' W. 34' H. X 250 # DRAWER RATING, - 40' WIDE (APPROX) TO RAWRER SET WITH BO JOZY W. 31' H. 230 # ATAINO (1) 20' W. 34' H. X 250 # DRAWER RATING, - 40' WIDE (APPROX) TO RAWRER SET WITH BO JOZY W. 31' H. 23' DE DRAWER RATING, - 40' WIDE (APPROX) WITH STORAGE CABINET WITH BO JOZY W. 31' H. 23' DE DRAWER RATING, - 40' WIDE (APPROX) WITH STORAGE CABINET WITH BO JOZY W. 31' H. 3' AD BOX WER RATING, (1) 35' X - 41' X 250 # DRAWER RATING, (2) 35' W. 35' H. 3' 50' F A STALLED AND THE SECOND THE SECOND THE SECOND THE SECOND T			- ONE (1) 110 VOLT GFI DOUBLE OUTLET AT REAR OF DRIVER SIDE PACK MOUNTED FLUSH AND WATER TIGHT		
FRONT GRILL, TWO AS HIGH AS POSSIBLE AT REAR OF BODY AND TWO AT WHEEL WELL - TWO (2) TIME STATE SHOWLE HOLDERS MOUTHED ON EACH SIDE COMPARTMENT AT FRONT OF SIDE COMPARMENT BETWEEN BODY AND CHASSIS - WELDING REEL, WITH 100 FEET OF 30 WELDING CABLE - ONE PUSH BUTTON CONTROL IN CHASSIS FOR LIGHTING - CAN EVER SIDE 1ST VERTICAL COMPARTMENT AND ACCESSORIES >> - 45" WIDE (APPROX) WITH SHELVES AND VERTICAL DIVIDERS PER PICTURES WITH BOTTOM SLIDE-OUT TRAY FOR PUMP RATED FOR 300 LBS. WITH LOCK-IN, LOCK-OUT - OPIVER SIDE SIDE VERTICAL COMPARTMENT AND ACCESSORIES >> - 45" WIDE (APPROX) WITH STERRAG COMPARTMENT AND ACCESSORIES >> - 46" WIDE (APPROX) WITH ONE STERRAG COMPARTMENT AND ACCESSORIES >> - 48" WIDE (APPROX) WITH ONE (1) TOP SHELF MID-POINT AND THREE DIVIDERS BELOW FOR FOUR (4) CUBBY HOLES EVENLY SPACED - 46" WIDE (APPROX) THRONE (1) TOP SHELF MID-POINT AND THREE DIVIDERS BELOW FOR FOUR (4) CUBBY HOLES EVENLY SPACED - 46" WIDE (APPROX) TO ACCESSORIES >> - 46" WIDE (APPROX) WITH STORAGE CABINET WITH 6 DRAWERS, (6) 22" W X 3"H, X 250 # DRAWER RATING, FORK STITLE SHOWLE HOLDER ON LIEST DISE FOR BANKER RATING, COMPARTMENT WITH FOLDER OUT AND ACCESSORIES >> - 46" WIDE (APPROX) WITH STORAGE CABINET WITH 6 DRAWERS, (6) 32" W X 3"H, X 250 # DRAWER RATING, (4) 35" X 4"H, X 250 # DRAWER RATING, (2) 35" W X 5"H X 500 # DRAWER RATING, (3) 35" X 4"H, X 250 # DRAWER RATING, (4) 35" X 4"H, X 250 # DRAWER RATING, (3) 35" W X 5"H X 500 # DRAWER RATING, (4) 35" X 4"H, X 250 # DRAWER RATING, (3) 35" W X 5"H X 500 # DRAWER RATING, (4) 35" X 4"H, X 250 # DRAWER RATING, (6) STORAGE CABINET WITH 8 DRAWERS, (6) 35" W X 5"H X 500 # DRAWER RATING, (1) 33.5 W X 5"H X 500 # DRAWER RATING, (1) 35.5 W X 5"H X 500 # DRAWER RATING, (1) 35.5 W X 5"H X 500 # DRAWER RATING, (1) 35.5 W X 5"H X 500 # DRAWER R			- EIGHT (8) WORK LIGHTS-RIGID D SERIES PRO (WHITE) FOUR ON EACH SIDE WIRED TO INDIVIDUAL SWITCH		
BETWEEN BODY AND CHASSIS - WELDING REEL, WITH 100 FEET OF 3/0 WELDING CABLE - ONE PUBLY BUTTON CONTROL IN CHASSIS FOR LIGHTING **C PRIVER SIDE 1ST VERTICAL COMPARTMENT AND ACCESSORIES >> - 4.6" WIDE (APPROX) WITH SHELVES AND VERTICAL COMPARTMENT AND ACCESSORIES >> - 4.6" WIDE (APPROX) WITH SHELVES AND VERTICAL COMPARTMENT AND ACCESSORIES >> - 4.6" WIDE (APPROX) WITH STORAGE CABINET WITH 9 DYAMERS, (6) 30.5" W X.4" H, (3) 30.5" W X.5" H X.25.0" BDRAWER RATING, LOCK NO UNLY. ONE SHELVE ABOVE DRAWERS, (6) 30.5" W X.4" H, (3) 30.5" W X.5" H X.25.0" BDRAWER RATING, LOCK NO UNLY. ONE SHELVE ABOVE DRAWERS, (6) 30.5" W X.4" H, (3) 30.5" W X.5" H X.25.0" BDRAWER SET ** **C DRIVER SIDE SRD HORIZONTAL COMPARTMENT AND ACCESSORIES >> - 4.6" WIDE (APPROX) WITH ONE (1) TOPS SHELE MIPPOPIOTIT AND THREE DIVIDERS BELOW FOR FOUR (4) CUBBY HOLES EVENLY SPACED ** **C PRIVER SIDE ON HY SETICAL COMPARTMENT AND ACCESSORIES >> - 4.6" WIDE (APPROX) WITH ONE FET WITH (6) 20" W X.5" H X.25.0" # RATING (1) 20" W X.4" H X.25.0 # BDRAWER RATING, OWNER RATING, OWNER AND ACCESSORIES >> - 4.5" WIDE (APPROX) WITH STORAGE CABINET WITH 6) DRAWERS, (6) 22" W X.3" H, X.25.0 # BDRAWER RATING, FORK STORE AND ACCESSORIES >> - 4.5" WIDE (APPROX) WITH STORAGE CABINET WITH 6 DRAWERS, (6) 22" W X.3" H, X.25.0 # BDRAWER RATING, FORK STORE AND ACCESSORIES >> - 4.5" WIDE (APPROX) WITH STORAGE CABINET WITH 6 DRAWERS, (6) 32" W X.3" H, X.25.0 # BDRAWER RATING, (1) 35" X 4" H, X.25.0 # BDRAWER RATING, (2) 35" W X.5" H, X.50.0 # BDRAWER RATING, (3) 35" X 4" H, X.25.0 # BDRAWER RATING, (3) 35" W X.5" H, X.25.0 # BDRAWER RATING, (3) 35" W X.5" H, X.25.0 # BDRAWER RATING, (3) 35" W X.5" H, X.25.0 # BDRAWER RATING, (3) 35" W X.5" H, X.25.0 # BDRAWER RATING, (3) 35" W X.5" H, X.25.0 # BDRAWER RATING, (3) 35" W X.5" H, X.25.0 # BDRAWER RATING, (3) 35" W X.5" H, X.25.0 # BDRAWER RATING, (3) 35" W X.5" H, X.25.0 # BDRAWER RATING, (3) 35" W X.5" H, X.25.0 # BDRAWER RATING, (3) 35" W X.5" H, X.25.0 # BDRAWER RATING, (3) 35" W X.5" H, X.25.0 # BDRAWER RATING, (FRONT GRILL, TWO AS HIGH AS POSSIBLE AT REAR OF BODY AND TWO AT WHEEL WELL		
- ONE PUSH BUTTON CONTROL IN CHASSIS FOR LIGHTING - DRIVER SIDE 1ST VERTICAL COMPARTMENT AND ACCESSORIES >> - 45' WIDE (APPROX) WITH SITE VERY AND WATERIAL DIVIDERS PER PICTURES WITH BOTTOM SLIDE-OUT TRAY FOR PUMP RATED FOR 390 LBS. WITH LOCK-NI, LOCK-OUT - DRIVERS SIDE 280D VERTICAL COMPARTMENT AND ACCESSORIES >> - 45' WIDE (APPROX) WITH STORAGE CABINET WITH 9 DRAWERS, (6) 30.5' W X 4" H, (3) 30.5' W X 6" H X 250 # DRAWER RATINS, LOCK NO NILY, ONE SHELVE ABOVE DRAWER BUTTON AT SHELVES BELOW IT BESTIDE DRAWER SET - ABY WIDE (APPROX) WITH ONE) TO PROME THE AND ACCESSORIES >> - 48' WIDE (APPROX) WITH ONE) TO PROME STAY AND ACCESSORIES >> - 48' WIDE (APPROX) TO PROME SET WITH (6) 20' W X 3"H X 250 # RATING (1) 20' W X 4" H X 250 # DRAWER RATING, LOCK IN ONLY, COMPARTMENT VENTED FOR COXYACCET WITH 1/4" X 40 FT REEL, HOSE COMING OUT THE BACK OF THE COMPARTMENT WITH ROLLER GUIDES - 45' WIDE (APPROX) WITH STORAGE CABINET WITH 6 DRAWERS, (6) 22'W X 3"H, X 250 # DRAWER RATING, FORK STYLE SHOVEL HOLDER ON LEFT SIDE FOR SMALL GRIP HANDLED SHOVELS, CHAIN BAR AND ONE ROVD PRING STYLE SHOVEL HOLDER ON LEFT SIDE FOR SMALL GRIP HANDLED SHOVELS, CHAIN BAR AND ONE ROVD PRING STYLE SHOVEL HOLDER ON LEFT SIDE FOR SMALL GRIP HANDLED SHOVELS, CHAIN BAR AND ONE ROVD PRING STYLE SHOVEL HOLDER ON LEFT SIDE FOR SMALL GRIP HANDLED SHOVELS, CHAIN BAR AND ONE ROVD PRING STYLE SHOVEL HOLDER ON LEFT SIDE FOR SMALL GRIP HANDLED SHOVELS, CHAIN BAR AND ONE ROVD PRING STYLE SHOVEL HOLDER ON LEFT SIDE FOR SMALL GRIP HANDLED SHOVELS, CHAIN BAR AND ONE ROVD PRING STYLE SHOVEL HOLDER ON LEFT SIDE FOR SMALL GRIP HANDLED SHOVELS, CHAIN BAR AND ONE ROVD PRING STYLE SHOVEL HOLDER ON LEFT SIDE FOR SMALL GRIP HANDLED SHOVELS, CHAIN BAR AND ONE ROVD PRING STYLE SHOVEL SHOW THE STORAGE CABINET WITH B DRAWERS, (6) 32"W X 3"H X 250 # DRAWER RATING, (1) 33.5" X 4"H X 250 # DRAWER RATING, (1) 35" X 4"H X 250 # DRAWER RATING, (1) 35" X 4"H X 250 # DRAWER RATING, (1) 35" X 4"H X 250 # DRAWER RATING, (1) SHELP SHOVE SHOW THE SHOW THE SHOW THE SHOW THE SHOW			BETWEEN BODY AND CHASSIS		
- 45" WIDE (APPROX) WITH SHELVES AND VERTICAL DIVIDERS PER PICTURES WITH BOTTOM SLIDE-OUT TRAY FOR PHUM RATED FOR 300 LBS. WITH LOCK-IN, LOCK-OUT					
- 45" WIDE (APPROX) WITH STORAGE CABINET WITH 9 DRAWERS, (6) 30.5" W X 4" H, (3) 30.5" W X 6" H X 250 # DRAWER RATING, LOCK IN ONLY, ONE SHELVE ABOVE DRAWER SET RATING, LOCK IN ONLY, ONE SHELVE ABOVE DRAWER WITH AND 3 SHELVES BELOW IT BESIDE DRAWER SET * PRIVER SIDE 3RD HORIZONTAL COMPARTMENT AND ACCESSORIES >> * 48" WIDE (APPROX) WITH DNC (1) TOP SHELF MID-POINT AND THREE DIVIDERS BELOW FOR FOUR (4) CUBBY HOLES EVENLY SPACED ** ORIVER SIDE 41H VERTICAL COMPARTMENT AND ACCESSORIES >> * 45" WIDE (APPROX) 7 DRAWER SET WITH (6) 20" W X 3"H X 250 # BRATING (1) 20" W X 4" H X 250 # DRAWER RATING, LOCK IN ONLY. COMPARTMENT VENTED FOR OXYIACET WITH 1/4" X 40 FT REEL, HOSE COMING OUT THE BACK OF THE COMPARTMENT WITH ROLLER GUIDES ** OPASENGER SIDE 1ST VERTICAL COMPARTMENT AND ACCESSORIES >> * 45" WIDE (APPROX) WITH STORAGE CABINET WITH 6 DRAWERS, (6) 32"W X 3"H, X 250 # DRAWER RATING, FORK STYLE SHOVEL HOLDER ON LEFT SIDE FOR SMALL GRIP HANDLED SHOVELS, CHAIN BAR AND ONE ROW D RING TRACK FOR TIE DOWNS AT MID POINT ON LEFT SIDE ** OPASENGER SIDE 2ND WITH STORAGE CABINET WITH 6 DRAWERS, (4) 35"W X 3"H X 250 # DRAWER RATING, (4) 35" X 4"H X 250 # DRAWER RATING, (2) 35"W X 3"H X 250 # DRAWER RATING, (4) 35" X 4"H X 250 # DRAWER RATING, (2) 35"W X 3"H X 250 # DRAWER RATING, (4) 35" X 4"H X 250 # DRAWER RATING, CONE SHELF ABOVE DRAWER WITH AND ACCESSORIES >> ** 45" WIDE (APPROX) WITH STORAGE CABINT WITH 4 DRAWERS, (3) 35.5"W X 6"H X 500 # DRAWER RATING, (1) 33.5 W X 6"H, 500 # DRAWER RATING, CONE SHELF ABOVE DRAWER WITH AND ACCESSORIES >> ** 45" WIDE (APPROX) WITH STORAGE CABINT WITH 4 DRAWERS, (3) 35.5"W X 6"H X 500 # DRAWER RATING, (1) 33.5 W X 6"H, 500 # DRAWER RATING, CONE SHELF ABOVE DRAWER WITH AND ACCESSORIES >> ** 45" WIDE (APPROX) WITH STORAGE CABINT WITH 4 DRAWERS, (3) 35.5"W X 6"H X 500 # DRAWER RATING, (1) 35.5 W X 6"H, 500 # DRAWER RATING, CONE SHELF ABOVE DRAWER WITH AND ACCESSORIES >> ** 45" WIDE (APPROX) WITH STORAGE CABINT WITH A DRAWERS, (3) 35.5"W X 6"H X 500 # DRAWER RATING, (1) 35.			- 45" WIDE (APPROX) WITH SHELVES AND VERTICAL DIVIDERS PER PICTURES WITH BOTTOM SLIDE-OUT TRAY FOR PUMP RATED FOR 300 LBS. WITH LOCK-IN, LOCK-OUT		
 CDRIVER SIDE 4TH VERTICAL COMPARTMENT AND ACCESSORIES >>			- 45" WIDE (APPROX) WITH STORAGE CABINET WITH 9 DRAWERS, (6) 30.5" W X 4" H, (3) 30.5" W X 6" H X 250 # DRAWER RATING, LOCK IN ONLY. ONE SHELVE ABOVE DRAWER UNIT AND 3 SHELVES BELOW IT BESIDE DRAWER SET << DRIVER SIDE 3RD HORIZONTAL COMPARTMENT AND ACCESSORIES >>		
			<< DRIVER SIDE 4TH VERTICAL COMPARTMENT AND ACCESSORIES >> - 45" WIDE (APPROX) 7 DRAWER SET WITH (6) 20" W X 3"H X 250 # RATING (1) 20" W X 4" H X 250 # DRAWER RATING, LOCK IN ONLY. COMPARTMENT VENTED FOR OXY/ACET WITH 1/4" X 40 FT REEL, HOSE COMING OUT THE BACK OF THE		,
- 45" WIDE (APPROX) WITH STORAGE CABINET WITH 6 DRAWERS, (6) 22"W X 3"H, X 250 # DRAWER RATING, FORK STYLE SHOVEL HOLDER ON LEFT SIDE FOR SMALL GRIP HANDLED SHOVELS, CHAIN BAR AND ONE ROW D RING TRACK FOR TIE DOWNS AT MID POINT ON LEFT SIDE < PASSENGER SIDE 2ND VERTICAL COMPARTMENT AND ACCESSORIES >> - 45" WIDE (APPROX) WITH STORAGE CABINET WITH 8 DRAWERS, (4) 35" W X 3"H X 250 # DRAWER RATING, (4) 35" X 4"H X 250 # DRAWER RATING, (2) 35"W X 8"H X 500 # DRAWER RATING, ONE SHELF AT TOP OF DRAWER UNIT < PASSENGER SIDE 3RD HORIZONTAL COMPARTMENT AND ACCESSORIES >> - 45" WIDE (APPROX) WITH STORAGE CABINET WITH 4 DRAWERS, (3) 33.5"W X 6"H X 500 # DRAWER RATING, (1) 33.5W X 6"H, 500 # DRAWER RATING, ONE SHELF ABOVE DRAWER RATING, (1) 33.5W X 6"H, 500 # DRAWER RATING, (1) 33.5W X 6"H, 500 # DRAWER RATING, ONE SHELF ABOVE DRAWER WITH AND VERTICAL WALL AND 4 CUBBYS ON LEFT SIDE OF CABINET < PASSENGER SIDE 3RD HORIZONTAL COMPARTMENT AND ACCESSORIES >> 45" WIDE (APPROX) WITH 3500 WATT INVERTER, SHELF FOR MICRO WAVE AND TWO SHELVES FOR BATTERY CHARGING STATION. VAN AIR UDSM CONTROL PANEL AND MYEC CONTROL PANEL INSTALLED IN THIS COMPARTMENT SUBTOTAL: SALES TAX (7.25%): FREIGHT: TOTAL WITH FREIGHT: TOTAL WITH FREIGHT: TOTAL WITH FREIGHT: TOTAL WITH FREIGHT: 1. LEAD TIME FOR PRODUCTION WILL BE DETERMINED AFTER RECEIPT OF A SIGNED "APPROVED" DRAWINGS, WHICHWILL BE SUBMITTED UPON RECEIPT OF AN ORDER. LEAD TIME FOR BODY UPFIT DETERMINED UPON RECEIPT OF CHASSIS. 2. BODY UPFIT REQUIRES A 120" CAB TO AXLE. REQUIREMENT MUST BE MUTUALLY AGREED UPON WITH PB LOADER PRIOR TO ORDERING THE CHASSIS. PB LOADER WILL NOT BE RESPONSIBLE FOR FRAME CHANGES DUE TO INSUFFICIENT CHASSIS FRAME SPACE. 3. DELIVERY DATE FOR CHASSIS TO PB LOADER MUST BE MUTUALLY AGREED UPON.			COMPARTMENT WITH ROLLER GUIDES		
			- 45" WIDE (APPROX) WITH STORAGE CABINET WITH 6 DRAWERS, (6) 22"W X 3"H, X 250 # DRAWER RATING, FORK		
CUBBYS BESIDE DRAWER UNIT			<< PASSENGER SIDE 2ND VERTICAL COMPARTMENT AND ACCESSORIES >> - 45" WIDE (APPROX) WITH STORAGE CABINET WITH 8 DRAWERS, (4) 35"W X 3"H X 250 # DRAWER RATING, (4) 35" X		
6"H, 500 # DRAWER RATING, ONE SHELF ABOVE DRAWER UNIT AND VERTICAL WALL AND 4 CUBBYS ON LEFT SIDE OF CABINET			CUBBYS BESIDE DRAWER UNIT << PASSENGER SIDE 3RD HORIZONTAL COMPARTMENT AND ACCESSORIES >>		
CHARGING STATION. VAN AIR UDSM CONTROL PANEL AND MVEC CONTROL PANEL INSTALLED IN THIS COMPARTMENT SUBTOTAL: SALES TAX (7.25%): FREIGHT: TOTAL WITH FREIGHT: NOTES: 1. LEAD TIME FOR PRODUCTION WILL BE DETERMINED AFTER RECEIPT OF A SIGNED "APPROVED" DRAWINGS, WHICHWILL BE SUBMITTED UPON RECEIPT OF AN ORDER. LEAD TIME FOR BODY UPFIT DETERMINED UPON RECEIPT OF CHASSIS. 2. BODY UPFIT REQUIRES A 120" CAB TO AXLE. REQUIREMENT MUST BE MUTUALLY AGREED UPON WITH PB LOADER PRIOR TO ORDERING THE CHASSIS. PB LOADER WILL NOT BE RESPONSIBLE FOR FRAME CHANGES DUE TO INSUFFICIENT CHASSIS FRAME SPACE. 3. DELIVERY DATE FOR CHASSIS TO PB LOADER MUST BE MUTUALLY AGREED UPON.			CABINET << PASSENGER SIDE 3RD HORIZONTAL COMPARTMENT AND ACCESSORIES >>		
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			Delivery times are approximate.		<u> </u>

April 22, 2024

Prepared by: N. Mai / M. Cortez

Submitted by: K. Burton

Approved by: Paul A. Cook

CONSENT CALENDAR

MICHELSON WATER RECYCLING PLANT SOLIDS DISPOSAL 18-INCH FORCE MAIN SEGMENT RELOCATION <u>FINAL ACCEPTANCE</u>

SUMMARY:

The Michelson Water Recycling Plant (MWRP) 18-inch Force Main Segment Relocation is complete. The contractor, Paulus Engineering Inc., completed the required work. The project has received final inspection and acceptance of construction is recommended.

BACKGROUND:

The District is completing the design of the new Purchasing warehouse, which is sited in the northwest corner of the existing material storage yard at MWRP and will extend towards the biosolids access road. The new warehouse location will overlay a segment of the existing 18-inch force main that is used to send excess flow to Orange County Sanitation District should a treatment process emergency occur at MWRP. This force main segment relocation project realigned the 18-inch force main to move it away from the new warehouse building footprint.

West Yost Associates completed the design in June 2023, and Paulus Engineering, Inc. was awarded the construction contract on August 15, 2023. Paulus Engineering mobilized in December 2023 and completed construction of all improvements on April 11, 2024.

Two contract change orders were issued during construction. The change order items were added to the project at the direction of IRWD. Differing site conditions impacted construction requiring additional time, labor, and materials by Paulus Engineering to address the unsuitable soil, groundwater dewatering, and deviations in the existing force main alignment.

Project Title: Michelson Water Recycling Plant Solids Disposal

18-inch Force Main Segment Relocation

Project No.: 12520

Design Engineer: West Yost Associates

Construction Management by: IRWD Staff

Contractor: Paulus Engineering, Inc.

Original Contract Cost: \$299,777.00

Final Contract Cost: \$381,343.00

Original Contract Days: 120

Final Contract Days: 146

Final Change Order Approved On: March 14, 2024

Consent Calendar: Michelson Water Recycling Plant Solids Disposal 18-inch Force Main Segment Relocation Final Acceptance

April 22, 2024

Page 2

FISCAL IMPACTS:

MWRP Solids Disposal 18-inch Force Main Segment Relocation, Project 12520, is included in the FY 2023-24 Capital Budget. The existing budget is sufficient to fund the final payment for the project.

ENVIRONMENTAL COMPLIANCE:

This project was exempt from the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations Title 14, Chapter 3, Article 7, Section 15302, which states that replacement or reconstruction of existing structures and facilities where the new structure will be located on the same site as the structure replaced and will have substantially the same purpose and capacity as the structure replaced including but not limited to: (b) replacement of a commercial structure with a new structure of substantially the same size, purpose and capacity; and (c) replacement of or reconstruction of existing utility systems and/or facilities involving negligible or no expansion of capacity. A Notice of Exemption for the project was filed with the Orange County Clerk-Recorder on August 15, 2023.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD ACCEPT CONSTRUCTION OF THE MICHELSON WATER RECYCLING PLANT SOLIDS DISPOSAL 18-INCH FORCE MAIN SEGMENT RELOCATION, AUTHORIZE THE GENERAL MANAGER TO FILE A NOTICE OF COMPLETION, AND AUTHORIZE THE PAYMENT OF THE RETENTION 35 DAYS AFTER THE DATE OF RECORDING THE NOTICE OF COMPLETION PROJECT 12520.

LIST OF EXHIBITS:

Exhibit "A" – Construction Change Order Summary

MWRP Solids Disposal 18-inch Force Main Segement Relocation PR 12520 **Construction Change Order Summary**

Contractor: Paulus Engineering Inc
Design Engineer: West Yost Associates

Award Date: 8/15/2023

					Contract Amount						Contract Days				Original Completion Date:
								Original Contra	ct Amount:	\$299,777.00	О	riginal Con	tract Days:	120	12/13/2023
Chan	ge Order	Description	Category]	nange Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
1		Approved by Executive Director of Technical Services on February 26, 2024.				\$5,244.00	\$0.00	\$5,244.00	1.75%	\$305,021.00	0	0	0	120	12/13/2023
		Trench backfill material substitution: CMB for native	Α	\$	5,244.00						0				
2		Approved by Executive Director of Technical Services on March 14, 2024.				\$76,322.00	\$5,244.00	\$81,566.00	25.46%	\$381,343.00	26	0	26	146	1/8/2024
	2.1	Additional pothole to investigate alignment discrepancy and addition of 11.25 deg fitting to resolve differing alignment.	В	\$	13,151.00						2				
	2.2	Additional labor and modifications to the inspection manhole due to conflicting electrical utility.	В	\$	11,102.00						6				
		Addition of trench dewatering, groundwater testing, overexcavation, and crushed rock backfill due to discovery of groundwater within trench.	В	\$	27,181.00						10				
	2.4	Additional earthwork due to differing soil conditions and trench restoration following rain events.	В	\$	24,888.00						8				

Category	То	tal Amount	% of Original Contract
A - Owner Directed Change	\$	5,244.00	1.75%
B - Differing/Unknown Condition	\$	76,322.00	25.46%
C - External Agency, Regulatory, and/or Permit Required Change	\$	-	0.00%
D - Design Oversight	\$	-	0.00%
Total Change Order Amount $(A + B + C + D)$	\$	81,566.00	27.21%

April 22, 2024

Prepared by: M. Robinson / J. Shih /

E. Akiyoshi

Submitted by: K. Burton

Approved by: Paul A. Cook

CONSENT CALENDAR

GEOGRAPHIC INFORMATION SYSTEM UTILITY NETWORK MIGRATION CONSULTANT SELECTION

SUMMARY:

IRWD's Geographic Information System (GIS) provider, Environmental Systems Research Institute (Esri), is sunsetting the 25-year-old data model and geographic database that provides the foundation for housing GIS data. The Utility Network (UN) migration project will convert the GIS data model to the next-generation Utility Network database. Proposals were received from four consultant teams. The team of DCSE and Esri is the most qualified, has the best understanding of IRWD's business needs, and is the most experienced with the UN. Staff recommends that the Board authorize the General Manager to execute a Professional Services Agreement with DCSE in the amount of \$599,130.

BACKGROUND:

The GIS Master Plan was presented to the IRWD Board in May 2023, and since then staff has been progressing on the roadmap activities. The Esri Enterprise License Agreement was executed in May 2023 and major upgrades to IRWD's mobile work force and mapping solutions were completed in early 2024. The next step is to migrate the GIS data model from the existing Geometric Network to the new UN. Every 20 to 25 years, Esri (IRWD's GIS software vendor) updates its underlying data structure and supporting database. Esri is sunsetting the Geometric Network in 2026 which requires every user to move to the UN. This will impact every IRWD Enterprise System business process that integrates with GIS (e.g., Maximo, CC&B, Field Mapplet, Plan Check, and all interactive mapping solutions). Additionally, IRWD will need the new UN to continue updating and adding new facilities into GIS. The new UN will provide significant benefits to IRWD including the following highlights:

- Ability to build digital twins of vertical assets (e.g. pump stations, tanks, and wells),
- Enhanced tracing capabilities within distribution and collection systems,
- Ability to build hydraulic network diagrams of specific areas of IRWD (e.g. built-in hydraulic schematics for Santiago Canyon areas); and
- Optimized use of secure web-based interactive office and field mobile solutions.

The scope of work for this project includes future proofing the GIS system by upgrading the GIS infrastructure for the UN and reviewing IRWD's business processes and system architecture to help ensure successful integrations with the Enterprise systems. Additionally, the team will be implementing a test environment to minimize disruptions to the production systems, completing error resolution and data cleanup to maximize benefits of the UN, and updating all integrations between GIS and other IRWD systems. Training and documentation for editing workflows and management of the UN will also be provided.

Consent Calendar: Geographic Information System Utility Network Migration Consultant

Selection April 22, 2024

Page 2

Consultant Selection:

Staff invited five consultants to propose on the project. Proposals were received from four consultants: 1898, DCSE, Cyient, and Langan. HDR declined to submit a proposal. While all consultants were well qualified, DCSE teamed with Esri to help create a well-balanced team, presented the most clearly articulated project approach, best understands IRWD's business needs, and showed an excellent project understanding that meets IRWD's goals and objectives for this project.

- Project Team: Esri's Professional Services team will bring the most updated and thorough understanding of how to bridge IRWD needs with the new UN. With DCSE as the project lead, this team is best suited for the migration. DCSE has extensive experience in all aspects of this project. They recently completed successful UN water projects for San Bernadino Municipal Water District, Santa Clarita Valley Water Agency, and the City of Long Beach. DCSE's project manager, Ali Diba, has over 30 years of experience implementing GIS in the water industry and has managed numerous projects to completion for IRWD over the years.
- *Project Understanding*: DCSE's proposal demonstrated the most clearly described methodology to successfully migrate IRWD into the UN and fully maximize the tools available for advanced modeling, tracing, and editing functionalities. Additionally, the level of effort presented in each of the tasks indicates a clear understanding of how to update the integrations with other IRWD Enterprise Systems (e.g. Oracle CC&B, Maximo, Field Mapplet, and other GIS based mapping solutions).
- *Technical Approach*: DCSE articulated a robust approach that discusses in detail the System Architecture design, pilot environment for proof of concepts and training, full testing environment to ensure successful integrations without disrupting IRWD's current business processes, and final production environment.

The Consultant Evaluation Matrix is provided as Exhibit "A". DCSE's scope of work and fee proposal are provided as Exhibit "B". Staff anticipates that the project will be completed in October 2025.

FISCAL IMPACTS:

The Capital Planning Support 23/24-24/25, Project 11782, is included in the FY 2023-24 Capital Budget and has sufficient funds for the Utility Network Migration project.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on April 16, 2024.

Consent Calendar: Geographic Information System Utility Network Migration Consultant

Selection

April 22, 2024

Page 3

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH DCSE IN THE AMOUNT OF \$599,130 FOR THE UTILITY NETWORK MIGRATION, PROJECT 11782.

<u>LIST OF EXHIBITS</u>:

Exhibit "A" – Consultant Evaluation Matrix

Exhibit "B" – DCSE's Scope of Work and Fee Proposal

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Exhibit "A"

GIS Utility Network Migration Consultant Selection Matrix

Item	Description	Weights	189	8 & Co.	D	CSE	Су	ient	La	angan
Α	TECHNICAL APPROACH									
1	Project Understanding	30%		3 1		2		4		
2	Preliminary Data Readiness Assessment	25%		3	1		2		4	
3	Error Resolution and data cleanup plan	15%		2		1	3		4	
4	GIS Integration Approach	20%		3		1	2		4	
5	Innovative Approach and Solutions 10% 1		2 4		4	3				
	TECHNICAL APPROACH (WEIGHTED SCORE) 100%			2.7	1.1		2.4		3.9	
В	QUALIFICATION AND EXPERIENCE 40			2.0	1.0		3.0		4.0	
	COMBINED WEIGHTED SCORE			2.4	1.1		3.0		3.5	
	Ranking of Consultants		2 1		1	3		4		
С	SCOPE OF WORK						<u> </u>			
TASK			Task Hours	FEE	Task Hours	FEE	Task Hours	FEE	Task Hours	FEE
	SUB-TOTAL ENGINEERING SERVICES, FEE		2,804	\$549,030	4,410	\$587,920	Not Provided	\$497,499	1,744	\$292,000
	Optional Tasks									
2	Upgrade to 2024 or 2025 Network Management Release				70	\$11,210				
	TOTAL ENGINEERING SERVICES, FEE		2,804	\$549,030	4,480	\$599,130	Not Provided	\$497,499	1,744	\$292,000

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REQUEST FOR PROPOSAL FOR

Utility Network Migration

Response File

March 22nd, 2024



Submitted by:
DCSE Inc.
23461 S. Pointe Drive, Suite 300
Laguna Hills, CA 92653



CONTENTS

Сс	nte	ents		TOC-1	
Lis	t o	f Figu	ures	TOC-2	
Lis	t o	f Tab	lles	TOC- 2	
Сс	vei	r Lett	ter	Cover- 1	
EX	EC	UTIVI	E SUMMARY	Exec-1	
	Fir	m Ov	verview	Exec-1	
	Un	ique	Differentiators	Exec- 2	
Α.	9	SCOP	PE	1	
	A.1	1.	Project Understanding	1	
	A.2	2.	Project Approach	2	
	Α.3	3.	Scope of Work	6	
В.	-	TEAM	Л	26	
C.	E	EXPE	RIENCE	33	
C.1. Specific Utility Network & Intergrations Experiences					
C.2. References					
	C.3	3.	Other Unique UN Capabilities	37	
D.	9	SCHE	DULE	42	
	D.1	1.	Milestone Summary	42	
	D.2	2.	Detailed Schedule	42	
E.	1	BUDG	GET	44	
F.	J	JOINT	T VENTURE	45	
G.	(CONF	FLICT OF INTEREST	46	
Н.	(CONT	TRACT	47	
l.	I	INSUI	RANCE	48	
J.	ſ	PUBL	IC WORK REQUIREMENTS	49	
Αp	Appendix A – Utility Network Assessment50				
Αp	ре	ndix I	B – Resumes	51	
Αp	ре	ndix (C – Project Sheets	52	
Αp	Appendix D – Product Sheets53				
Αp	Appendix E – Sample Architecture Design Report54				
Αp	ре	ndix I	F – Insurance	55	
Αp	ре	ndix (G – Registration with DIR	56	



LIST OF FIGURES	
Figure 1 – DCSE Award History at a Glance	1
Figure 2 - DCSE Awards	2
Figure 3 – High Level Project Workflow Diagram	2
Figure 4 - DCSE's Agile Process	5
Figure 5 - Azure DevOps Interface	5
Figure 6 - Utility Network Migration Workplan	6
Figure 7 - Microsoft TEAMS Configuration for Managing the Utility Network	7
Figure 8 - Review of Impact on Existing Systems from Adopting the Utility Network	8
Figure 9 – Left side - Sample Drone Model overlaid with UN Data, Right side – UN data in 3D View ,	
refined per Drone model	25
Figure 10 - Organization Chart	26
Figure 11- Extending the Utility Network Water Asset Package to Support Water Tanks	38
Figure 12 - Pump Station Reality Capture Combined with Utility Network	39
Figure 13 - Sewer Lift Station Reality Capture Combined with Utility Network	39
Figure 14 - GeoMerge Interface	40
Figure 15 - GEAR Interface for Managing Vertical Assets in Utility Network	41
Figure 16 - Proposed Project Schedule with Milestones	43
LIST OF TABLES	
Table 1 – UN Configurations	15
Table 2 - List of Deliverables	20
Table 3 - Staff Experience & Availability Summary	27
Table 4 - Recent UN Experience	33
Table 5 - QR Codes for Webinars Related to Utility Network	34
Table 6 - Reference – City of San Bernardino Municipal Water Department	
Table 7 - Reference - Santa Clarita Valley Water Agency	36
Table 8- Reference - Contra Costa Water District (CCWD)	36
Table 9 - Milestone Summary	42



FXFCUTIVE SUMMARY

FIRM OVERVIEW

Established in 1989 in Southern California, DCSE is a multidisciplinary firm with more than 30 professionals in water, wastewater, and environmental engineering, including experts in chemical, mechanical, civil, and software engineering. Our team also comprises skilled project managers, GIS analysts, software engineers, and developers, all with significant experience. DCSE is known for its innovative GIS-enabled water/wastewater information management systems and offers a wide range of integrated GIS services. These services span needs assessment, system implementation, GIS data conversion, enterprise system deployments, geodatabase and Utility Network migrations, and the development of advanced applications.

Our principals have been deeply involved with Esri GIS since the mid-1980s, applying GIS solutions to a variety of challenges. Over four decades, we have developed a diverse array of GIS skills, serving over 300 cities, municipalities, and water and wastewater authorities. Our focus at DCSE is threefold:

- Providing clients with optimal solutions that respect budget and schedule constraints.
- Promoting efficient solutions within the engineering services industry.
- Maintaining our leadership position in GIS consulting.

DCSE has been an Esri Silver Business Partner for the past 23 years, currently transitioning to Gold. Our partnership with Esri has been marked by several awards:

- Esri IMGIS Conference 2022 Award for Utility Network Implementation.
- Esri 2006 Foundation Partner of the Year.
- Our MapLibrary product was featured by Esri at their 22nd and 23rd User Conferences (UC) for hosting Map Gallery content and the People's Choice Award.
- Esri User Conference 1992 Winner of the Most Analytical Solution Using Dynamic Segmentation Toolbox.

Our specialties at DCSE include:

- ArcGIS Utility Network Management Specialty.
- ArcGIS System Ready Specialty.
- ArcGIS Marketplace Provider Award.

Figure 1 and Figure 2 show DCSE's award history and the type of awards, respectively. The DCSE team has extensive experience with GIS, having worked on as many as 150 water, 100 sewer, and 50 storm drain systems. This deep expertise in managing wet utilities through GIS will be a significant advantage that the DCSE team contributes to this project.

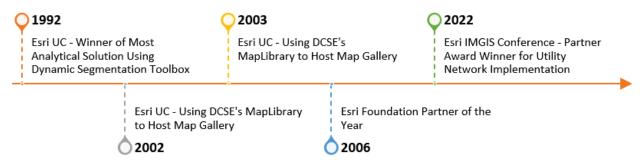


Figure 1 – DCSE Award History at a Glance





Figure 2 - DCSE Awards

UNIQUE DIFFERENTIATORS

Proximity to IRWD: DCSE's main office, located in Laguna Hills, is conveniently situated within a half-hour drive of the City of Irvine. This proximity allows our managers and analysts to attend all required meetings and training sessions in person if needed, ensuring prompt and efficient collaboration.

Experience with IRWD's GIS Data: Leveraging over a decade of partnership with IRWD, DCSE possesses unparalleled expertise in the district's GIS data. Our profound familiarity with IRWD's infrastructure not only minimizes the need for introductory phases but also accelerates our ability to customize solutions to meet IRWD's specific requirements efficiently.

Key highlights of our collaboration with IRWD include:

- ♣ Execution of a pilot Utility Network migration project for IRWD's water system. This initiative allowed us to identify key challenges and necessities, ensuring a robust understanding of what's required for success in a full migration.
- Our team has implemented a wide array of systems for the district, including, but not limited to, MapLibrary, Mapplet & Field Mapplet, as well as Plancheck, CC&B and Maximo Integrations. Notably, our software engineers are the original architects behind the MapLibrary & Mapplet systems for the district. This foundational involvement grants us an exceptional understanding of the intricacies involved in system integration dynamics.
- ♣ The recent development of a GIS master plan for IRWD further deepened our knowledge of the agency's systems and operational workflows. Our engagement provided us with comprehensive insights into the nuances of IRWD's infrastructure and strategic objectives.

dcse

At DCSE, our extensive history of successful projects and profound knowledge of IRWD's GIS infrastructure positions us uniquely to deliver customized, effective solutions that address the specific challenges and ambitions of the district.

Esri Partnership and Industry Leadership: As an Esri partner, DCSE remains at the cutting edge of industry developments. Our active involvement in beta-testing Esri solutions and related technologies keeps us ahead in the GIS field. We are also harnessing the expertise of Esri, the global market leader in GIS software, by bringing them into this project as a subcontractor for System Architecture Design.

Esri Partner Award Recognition: Our receipt of the Esri Partner Award for Utility Network Implementation in the water industry in 2022 is a testament to our expertise and leadership in this sector, highlighting our commitment to delivering top-tier GIS solutions.

This project & upgrade, informed by previous pilot projects and a comprehensive GIS Master Plan, promises advanced modeling, tracing, editing functionalities, and increased data quality. Key to this transformation is the meticulous preparation involving staff, infrastructure alignment, and the integration of IRWD's systems with critical enterprise systems like Maximo, Oracle CC&B, and Field Mapplet.

DCSE's approach leverages its extensive experience with IRWD's systems and its proven track record in similar migrations. The project entails a detailed preliminary data readiness assessment, adoption of Esri's latest network management releases, and a focused upgrade on system architecture to support the Utility Network fully. Critical to the project's success are a proactive project management team, the application of agile methodologies for smooth execution, and a strategic testing phase to ensure seamless integration and functionality across IRWD's enterprise environment. This holistic approach not only addresses the technical transition but also emphasizes training and change management to ensure IRWD staff are fully prepared to leverage the new system capabilities effectively.



A. SCOPE

A.1. PROJECT UNDERSTANDING

IRWD's GIS team has been managing the infrastructure GIS data for potable water, recycled water, and wastewater systems in an enterprise geodatabase. The data is used to support workflows at IRWD for operations, engineering, planning, customer service, and conservation. Though the data has geometric networks present in it, IRWD is planning to drop the geometric networks to be able to edit the data in ArcGIS Pro. IRWD has been researching the Utility Network for some time, and aligning the infrastructure, staffing, and resources in preparation. IRWD has pursued a couple of projects building towards the proposed project:

- Pilot area utility network migration for water system about a couple of years ago this project provided an overview to IRWD on the migration process, and how the data looks like upon migrating to Utility Network format. DCSE assisted IRWD with this effort. Key takeaways of this pilot migration project were:
 - IRWD has the migration mapping ready between the existing GIS data ad utility network for the water system. It only needs to be validated against the latest data, and latest asset package from Esri.
 - DCSE also has an insight into the validation errors for the data. We hence have developed methodologies to resolve them or pre-empt them before occurring.
- Recent GIS Master Plan studied the feasibility and benefits of adopting the Utility Network as
 IRWD's data model. IRWD's incentive to migrate data to ESRI's Utility Network data model is to
 enable new data management and analysis capabilities. DCSE has demonstrated to IRWD
 through the pilot some examples of these functionalities including advanced tracing, 3D models
 for vertical assets, and the robust quality control measures built into the utility network.

The goal at the end of the project is to have IRWD fully maximize Utility Network's tools, including advanced modeling, tracing, and editing functionalities with increased data fidelity. Additionally, the project will catalog, identify impacts, and integrate GIS with enterprise systems including but not limited to Maximo, Oracle CC&B, and Field Mapplet.

DCSE has experience in successfully migrating data to the Utility Network at agencies with similar requirements to IRWD. Specifically, with IRWD, DCSE has extensive understanding of the enterprise environment, integrations, business processes in place, and how Utility Network can be leveraged to enrich the user experience.

As part of the proposal, DCSE is including a preliminary data readiness assessment of IRWD's three systems to properly scope the project. The assessment includes a review of IRWD's geodatabase, evaluation of the initial health of the data.

Our report is in *Appendix A – Utility Network Assessment* section of the proposal. The proposal's scope of work, approach, and recommendations shall reflect the results of the preliminary data readiness analysis. The Approach and Scope sections following contain sufficient detail that allow IRWD to clearly understand the proposed approach and the dependent tasks that may impact the timely delivery of the products and/or services.



A.2. PROJECT APPROACH

A.2.1. Overall Project Approach

DCSE Team has several years of experience with GIS for water and wastewater systems, and specifically for utility Networks. We also have experience with IRWD's GIS environment and the integrations in place and have working experience with IRWD's staff. The following project workflow has been created to provide IRWD with the deliverables within schedule, and budget. We have 3 project components that will be worked on simultaneously by different team members. *Figure 3* shows the integration activities with green lines, data related activities in orange, and infrastructure related activities in blue.

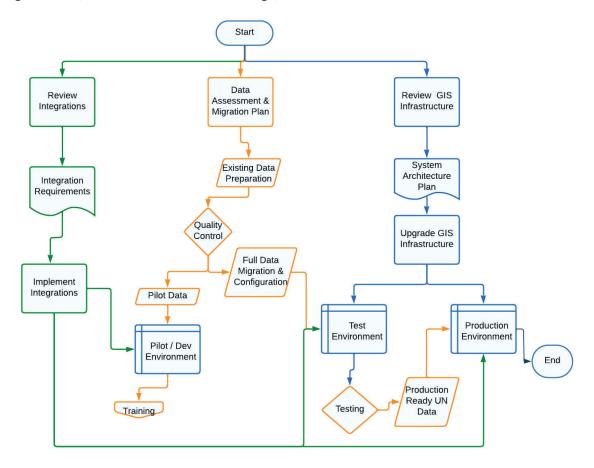


Figure 3 - High Level Project Workflow Diagram

The following are the highlights of our project approach:

- Proactive Project Management Team with Agile approach will ensure the project runs smoothly.
 We have included an Assistant Project Manager to our team who will be dedicated for ensuring timely deliverables, and seamless communication.
- Network Management Plan Esri has several software releases every year or so. For
 organizations planning the migration, upgrading to the latest version can be overwhelming
 considering data, integrations, and infrastructure need to be migrated. With the goal of easing
 change management, Esri has hence developed a network management plan. This plan defines
 the software versions, and ensures a stable environment with these versions for a 4-year
 window. We plan to implement the Network Management Release 2023 for IRWD which will



- provide a stable environment until mid-2027. Additionally, there are several new functionalities that are available for the enterprise and ArcGIS Pro versions corresponding to this plan. As an optional task, we are also providing IRWD with an optional task, to upgrade to the 2024 network management release which will be stable until 2028.
- The System Architecture will be designed using Industry Standard Best Practices, and considers scalability, availability, security, performance, and integrations. Several of the components recommended should already be covered by IRWD's Enterprise Agreement for licensing with Esri.
- We will provide recommendations for continuing system monitoring, measuring performance and validation. During the testing phase we will identify discrepancies with latency, indexes, and the overall health of the system. We will then optimize the system with resolution to issues around configurations, capacity, and environment.
- Testing is a critical component of this project. The following is our plan for testing, and final implementation:
 - A pilot environment with limited data will be set up in the beginning especially for testing integrations. It will be used for prototyping and proof of concepts. It will also be used to provide IRWD with training at the early stages of the project. The pilot will facilitate testing integrations and their impact on data models, service configuration, applications, system architecture, business processes, and staff training.
 - A full testing environment will be created once the data migration is complete. The
 original intention of this environment is to perform testing on the data, integrations,
 and all utility network functionalities implemented. Testing will be performed by DCSE
 as well as IRWD in this environment.
 - When testing is completed, DCSE will deploy the final Utility Networks on Production.
 There will be some testing to ensure that the production is working, along with
 integration points. (The full testing environment will now serve as IRWD's development
 environment to test any new integrations, or for staff training.)
 - Our testing process will validate all deliverables including business requirements, data models, data editing workflows, system interfaces, map products, data migration approach and tools.
- Utility Network Architecture and Schema We identified 2 separate Utility Networks that will be necessary as per the data models and Industry Standard Best Practices.
 - The Potable and Recycled water systems will be one data set. The water type attribute separates the facilities. They will be further sub-divided into separate subnetworks at system tier as potable water system, and recycled water system respectively. Within each system, there will be separate subnetworks for pressure zones, cathodic protection system, isolation, and district metered areas.
 - The Wastewater system will be in a separate data set, with tiers at system level, and sub area level.
 - The project timing coincides with the release of Esri's Essential Data Model for water and sewer systems. We plan to use these latest asset packages from Esri and extend the data model to accommodate IRWD's needs. This includes adding new asset types, attributes, attribute and topology rules, and domains.



- Utility Network functionalities will be implemented including sub networks (as described above), Containers, Assemblies, Pre-defined traces, Network Diagrams, and Z-Coordinates.
- Our wholistic approach to migration encompasses all aspects of the IRWD's GIS components –
 not just data. Understanding that this is a big step for IRWD, we will port over elements on the
 enterprise level not just individual user level. E.g. Styles, shared network traces will be created
 for use at enterprise level.
- ArcGIS Pro editing experience will be fine-tuned for the IRWD GIS editors with attribute rules, connectivity rules, containment rules, relationships, group templates, label expressions, and symbology. Note that these will be set at enterprise level. The result will enable IRWD staff to edit and maintain the infrastructure data in the Utility Network format along with the existing integrations.
- We encourage IRWD staff to leverage training resources (listed in the GIS Master Plan, and Appendix A Assessment) available from Esri to prepare for the Utility Network editing and management. While Esri training is generalized, the training in this project will cover the specifics of IRWD's workflows. The end goal of the training is to ensure that IRWD staff can edit and administer the Utility Network, and the new environment successfully upon go-live. This is indicated by the business process continuity and optimal performance of the enterprise GIS after the utility network migration.
- Most importantly, we prioritize change management in this project. Adopting new technology depends on the user education, and the learning curve. Wherever possible, we will minimize changes to the user interface e.g. ensuring same mapping symbology, and functionalities. Building in pilot will promote faster adoption, and minimizing User interface changes will promote broader adoption. The GIS Team can participate in all the scrum meetings held for the project. DCSE team will conduct meetings with the GIS Team to review each deliverable. The GIS Editors and Administrators will get the opportunity to work with the Utility Network from pilot stage itself, and by the end of the project, be proficient in editing and leveraging the new Utility Network capabilities. The users will be provided with demonstrations of new functionalities as soon as they are ready, to maximize exposure.

A.2.2. Project Management

DCSE Team includes a seasoned Project Manager supported by a dedicated Assistant Project Manager for this project. The DCSE Team follows the Project Management Institute's (PMI) approach for Initiating, Planning, Monitoring, Controlling, and Closing all its Projects' tasks and processes.

DCSE will be setting up a Teams channel for regular communication with IRWD. The Teams channel will contain all meeting notes and facilitate communications. Details of this approach are described in *Task 1* – *Project and Data Management*.

DCSE will also utilize the Agile project methodology to provide specific item delivery and progress transparency and provide a platform for all project stakeholders to communicate. *Figure 4* describes the agile process.



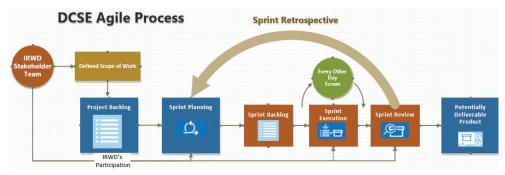


Figure 4 - DCSE's Agile Process

The tool used for this purpose is Azure DevOps, shown in Figure 5.

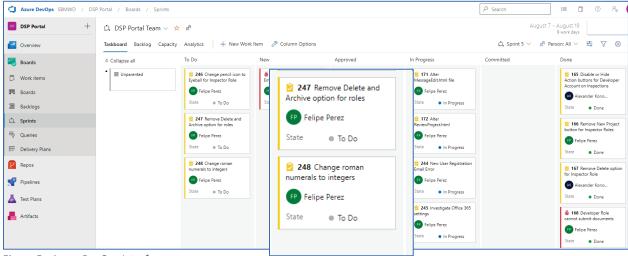


Figure 5 - Azure DevOps Interface

IRWD's project members will be given an introduction and training to using Azure DevOps during Task 1. The Project will be divided into individual Sprints with goals and objectives defined in the Sprint Planning meeting. The Sprint Planning meeting is a crucial meeting where participation of IRWD staff will help define the immediate deliverables resulting from Sprint. The process of formulating the project Sprints is shown in *Figure 4*. IRWD staff, as the stakeholders and product owners, are expected to participate in the Sprint Planning and Sprint Review processes. Project Tasks 1 will serve as the steps for creating the DevOps tasks.

Per the Sprint structure, the project team will hold bi-weekly SCRUM Meetings (lasting 15-20 minutes) to check in on item progress and, if necessary, address any item where progress has halted. The conclusion of a Sprint will result in a project item delivery.

IRWD can view project status at any time and receive automatic email notifications on items of interest in the Microsoft TEAMS Channel.

A.2.3. Quality Control

Our project organization and implementation strategies are designed to reduce risk by incorporating different project phases. Different aspects of the project will undergo QA/QC efforts. SCRUM meetings within the proposed Agile methodology will provide rapid feedback during QA/QC efforts and provide transparency to all stakeholders regarding staff management, budgeted item progress, and the

dcse

scheduling of invoicing. Sprints are based upon a timeline and must end with a delivery of a scoped deliverable. As a result, the nature of Sprints will help keep the Project progressing according to schedule.

An important note on quality control for Utility Network (UN) is that implementing the Utility Network inherently improves the data quality tremendously due to Utility Network functionalities like topology, and attribute rules. Having a test environment allows for thorough testing of all functionalities. However, prior to Go live, the production will also be tested and validated against workflows, for accessibility and performance. DCSE uses TestRail to streamline and automate testing workflows and applications.

A.3. SCOPE OF WORK

The following scope of work has a breakdown of required tasks per the RFP, and some optional tasks we believe will add value to IRWD. Each task lists the associated deliverables, and expectations from IRWD. The *Figure 6* illustrates the components of our utility network migration plan.

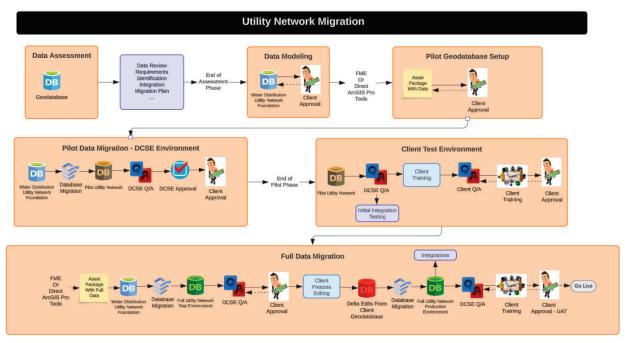


Figure 6 - Utility Network Migration Workplan

A.3.1. Required Tasks

A.3.1.1. Task 1 – Project and Data Management

DCSE understands the importance and the need for managing this project formally. We propose to use Microsoft TEAMS technology, which is a technology used by both IRWD and DCSE, to manage this project. All projects management activities will be tracked in a Microsoft TEAMS channel created by DCSE (or IRWD if desired) which will be shared with the project team. This includes:

 Project Progress Meetings (bi-weekly) – Agendas to be provided as part of the meeting invite and recorded in TEAMS. Project progress meeting notes will be documented in Microsoft TEAMS TEAMS.Notes, action items will be tracked in TEAMS.Tasks.



- Original schedule and bi-weekly schedule updates uploaded document containing Gantt chart in TEAMS.Files
- Work Plan will be developed at the start of the project and will be maintained in Microsoft
 TEAMS.Files and updated bi-weekly (if revised). A typical workplan is shown *Figure 6* This can
 serve as a starting point for the project for water, sewer, and recycled systems. Note the QA/QC
 steps and the IRWD team approval at different deliverable stages of the system.
- Brief project summary will be provided by the project team on a bi-weekly basis covering the
 activities and accomplishments of the prior week. Briefs will be updated on the Microsoft
 TEAMS.Files.
- Status tracking and reporting including issue tracking will be done in either Azure DevOps or Jira
 depending on the preference of the IRWD team. Any resource needs will be identified and
 tracked in these systems as we perform Sprints in the project.
- Project Budget Tracking and Invoicing will also be tracked in Microsoft TEAMS. Files. Budget
 tracking will be maintained in a Microsoft Excel file which will be updated when a new invoice is
 created and submitted to IRWD. The *Figure 7* shows the configuration of the Microsoft TEAMS
 for managing the Utility Network Conversion.

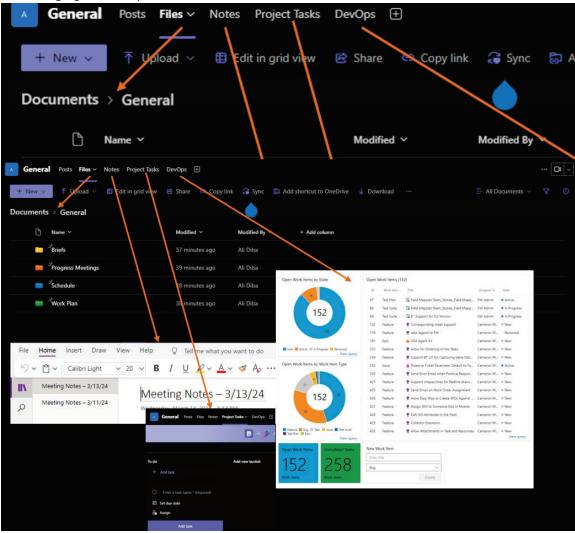


Figure 7 - Microsoft TEAMS Configuration for Managing the Utility Network



DCSE Deliverables: Meeting Minutes and Recordings, Project Schedule in GANTT Chart Format, Work Plan, Status Reports, DevOps — Organized inside Microsoft TEAMS Channel **IRWD's Responsibility:** Provide information, Participate in Meetings, review, and approve deliverables.

A.3.1.2. Task 2 – Review of Existing Information

This task covers the review of the IRWD's existing geodatabase setup and to identify the roadmap for implementing the capabilities such as existing GIS data schema, attribute rules, editing processes, integrations, and workflows. As with regard to integrations we anticipate visiting all of the systems referenced in the RFP including, MapLibrary, Plancheck, Field Mapplet, Mapplet, Maximo, and CC&B. *Figure 8* shows the elements of the integration that need to be revisited and sourced to the proper branch version of IRWD.

Utility Network Adoption Review of Impact on Existing Systems

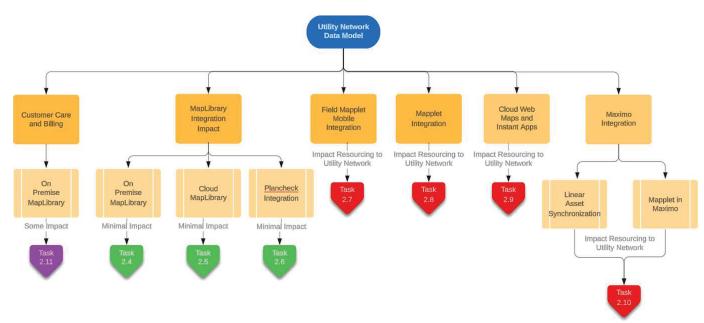


Figure 8 - Review of Impact on Existing Systems from Adopting the Utility Network

The subtasks of this Task 2 include the following:

Sub Task 2A – Identify and document the existing GIS data schema.

This task will use the data shared by IRWD for the assessment process. This task will also identify and document the attribute data that needs to be carried to the Utility Network data schema beside the fundamental changes of the core Utility Network data model. Approaches on how to preserve the attributes, e.g., GlobalIDs, will also be discussed in this sub-task.

DCSE Deliverables: Document with Existing GIS Data Schema, overview of how data will be migrated, and recommendations for UN schema extension to support IRWD's requirements. **IRWD's Responsibility:** Provide information, review, and approve deliverables.



Sub Task 2B - Identify and document the existing attribute rules.

This task will include the identification of the existing attribute rules and the associated roadmap for implementing them under the Utility Network data model. This task will provide for planning the migration of the attribute rules. We may also identify new attribute rules during this task given the capabilities of the Utility Network.

DCSE Deliverables: Document with Existing Attribute Rules, and Recommendations for additional rules in UN environment

IRWD's Responsibility: Provide information, review, and approve deliverables.

Sub Task 2C – Editing processes and workflows.

This task will document the "existing" and "to-be" workflows for editing and maintenance of the GIS data in Utility Network data model. It will include the details of the new process including the design of the branch versioning for editing of the data. Workflows that impact the attribute data of Utility Network features, e.g., workflows related to adding new GPSed meters, will be discussed and a road map created for handing these meters. This information will be used in task 7 to ensure continuation of the workflows with the new Utility Network environment.

DCSE Deliverables: Document with Existing Attribute Rules, and Recommendations for Workflows in UN environment

IRWD's Responsibility: Provide information, review, and approve deliverables.

Sub Task 2D – MapLibrary Integration Sourcing to Utility Network.

This task covers the integration requirements and the roadmap to be used to make sure MapLibrary remains functional, connected, and able to retrieve the artifacts as related to GIS content.

DCSE Deliverables: Document with MapLibrary Integration Requirements for UN environment **IRWD's Responsibility:** Provide information, review, and approve deliverables.

Sub Task 2E – Cloud MapLibrary Integration Sourcing to Utility Network.

This task covers the integration requirements and the roadmap to be used to make sure Cloud version of MapLibrary remains functional, connected, synchronized, and able to retrieve the artifacts as related to GIS content.

DCSE Deliverables: Document with Cloud MapLibrary Integration Requirements for UN environment **IRWD's Responsibility:** Provide information, review, and approve deliverables.

Sub Task 2F – Plancheck Integration Sourcing to Utility Network

This task covers the integration requirements for the Plancheck which is a module of MapLibrary. Any linking of documents in Plancheck with the GIS features needs to be revisited to make sure that the link is not broken.

DCSE Deliverables: Document with Plancheck Integration Requirements for UN environment **IRWD's Responsibility:** Provide information, review, and approve deliverables.

Sub Task 2G – Field Mapplet Mobile Integration

Field Mapplet uses Mobile Map Packages that are produced in an automated process from ArcGIS Pro. So the ArcGIS Pro projects used by Field Mapplet needs to be resourced to the new Utility Network branch versioned data sources. All extension of Field Mapplet, including, Sewer Line Cleaning, Manhole



Inspection, Leak Detection Protection, Leak Tracking, Underground Service Alerts, Cathodic Protection, Water Loss Prevention, OnSite Zero Usage, Illegal Connection, and Customer Care and Billing Meter Service Requests. This task also includes resourcing the Esri Dashboards that are setup to view the progress of the above in Field Mapplet.

DCSE Deliverables: Document with Field Mapplet Integration Requirements for UN environment **IRWD's Responsibility:** Provide information, review, and approve deliverables.

Sub Task 2H – Mapplet Integration

Mapplet is a viewer application that is used in many applications at IRWD including MapLibrary, Maximo, Cloud Mapplet, as well as being used as a standalone tool for viewing online maps of IRWD. Mapplet currently includes data such as potable, recycled, and sewer facilities. These data sources will all be moved to Utility Network and Mapplet needs to be resourced accordingly. In addition, Mapplet connects to data from external data sources such as viewing of the CC&B data.

DCSE Deliverables: Document with Mapplet Integration Requirements for UN environment **IRWD's Responsibility:** Provide information, review, and approve deliverables.

Sub Task 2I – Cloud Web Maps and Instant Apps

Some of the data layers used in Mapplet are also published to ArcGIS.COM for use with the Cloud Mapplet and the Instant Apps that are available for all Mapplet users. Migration to Utility Network would pose a requirement to add a new step which is converting the data to basic geodatabase which can be uploaded to ArcGIS.COM. This is due to the fact that ArcGIS.COM currently does not support Utility Network although this capability may be in the road map of Esri for the future. This requirement will be revisited at the time of implementation in case the support for Utility Network in ArcGIS.COM has changed.

DCSE Deliverables: Document with Cloud Web Maps Integration Requirements for UN environment **IRWD's Responsibility:** Provide information, review, and approve deliverables.

Sub Task 2J – Maximo Integration

Maximo integration includes two distinct activities. These include the synchronization of the GIS assets as well as displaying the Mapplet inside Maximo. The synchronization needs to be revisited and resourced while preserving the linkage and the history of the assets, locations, as it related to GIS. A plan will be developed during this task to achieve these objectives. The Mapplet inside Maximo will benefit from the general Mapplet conversion and resourcing but needs to also be visited to make sure all functionalities currently provided in Mapplet for Maximo is supported under the Utility Network framework.

DCSE Deliverables: Document with Maximo Integration Requirements for UN environment **IRWD's Responsibility:** Provide information, review, and approve deliverables.

Sub Task 2K – Customer Care and Billing (CC&B) Integration

Integration of the CC&B extension in Field Mapplet and the associated Esri Dashboards needs to be visited considering resourcing the meter/service point data under the Utility Network data model.

DCSE Deliverables: Document with CC&B Requirements for UN environment **IRWD's Responsibility:** Provide information, review, and approve deliverables.



A.3.1.3. Task 3 – Review and Upgrade GIS Infrastructure – Esri, Haritha, Ali

Under this task, the DCSE Team will conduct a System Architecture Design Workshop and prepare a System Architecture Design Report as described below followed by implementation.

Sub Task 3A – Develop Architecture Plan – Per 2023 Network Management Release Plan

IRWD is in the process of upgrading to ArcGIS Enterprise 10.9.1, which is consistent with the 2022 network management release plan. This plan is good until mid-2026. Considering that the existing environment must run in parallel until go-live for Utility Network, we recommend a parallel new environment for the Utility Network. Also, to provide longevity to IRWD's enterprise environment, we are recommending the implementation of Esri's 2023 Network Management Release plan with ArcGIS Enterprise 11.1, which will be good until at least mid-2027.

The DCSE Team will lead a three-day remote System Architecture Design Workshop to determine an appropriate GIS architecture for the needs and business drivers identified by the District. Each eight (8) hour workshop will be led by a senior Esri system architecture design consultant with active participation by DCSE Team and appropriate IRWD GIS, IT, operations, and business representatives. To help prepare for and facilitate the activity, DCSE Team will provide preparatory materials before the remote meetings. During the System Architecture Design Workshop, the system architecture design consultant will lead discussions on the following topics:

- Architecture vision
- Business drivers
- Sites (e.g., offices, data centers)
- User workflows
- Data architecture
- Application architecture
- Technology architecture
- System security
- Other Considerations

This workshop will help the DCSE Team to identify appropriate system architecture and configuration opportunities, while considering technical inputs including non-functional requirements, constraints, standards, and policies. Based on the workshop results, DCSE Team will prepare a System Architecture Design Report. A sample table of contents for the report is provided in *Appendix E – Sample Architecture Design Report*. The System Architecture Design Report will consider the District's current hardware and architecture standards and practices. The System Architecture Design Report will include the following:

- System architecture diagram showing the location and interaction of GIS hardware and software components.
- System sizing recommendations
- Hardware platform recommendations
- Network security and communications recommendations.

The System Architecture Design Report will be submitted for review, comment, and acceptance.



DCSE Deliverables: Three-day Remote System Architecture Design Workshop, System Architecture Design Report

IRWD's Responsibility: Provide information, review, and approve deliverables.

Sub Task 3B - Implement Architecture Plan with 2023 Network Management Release Plan

Based on the architecture plan, DCSE team will coordinate with IRWD IT staff for getting the infrastructure ready. This includes providing the specs, and when the machines are ready, validating the specs. DCSE team will then create the databases, update them with the utility network for pilot datasets so that integrations task can get a head start while rest of the data gets migrated. DCSE Team will perform installations and configurations in compliance with the Architecture plan from sub task 3A.

Next, DCSE Team will review the Utility Network management Plan, alongside the integration roadmap listed in the GIS Master Plan. We will create a document with roadmap and guidelines or the maintenance and upgrades of the GIS infrastructure for the Utility Network and all the integrations for the foreseeable future.

DCSE Deliverables: Software Installation Checklist, Upgraded Enterprise Environment Ready to Support the New Utility Network on IRWD Site, Roadmap and Guidelines documentation for maintaining the GIS Infrastructure for Utility Network and All IRWD Integrations.

IRWD's Responsibility: Provide information, access to IRWD infrastructure, review, and approve deliverables.

A.3.1.4. Task 4 – Data Assessment and Migration Plan

The DCSE Team will create a tailored migration plan that complies with industry standard best practices for UN after the data assessment is finished. The purpose of this activity is to confirm the data's integrity and provide a comprehensive plan of recommendations for getting ready for migrating the data to the Utility Network asset package. A thorough plan for getting IRWD's GIS ready for the migration will also be part of the task's deliverable. The DCSE team will perform the following subtasks for this task.

Subtask 4A - Data Review and Planning

DCSE Team has included the preliminary data readiness in **Appendix A – Utility Network Assessment**. This task builds on the preliminary data readiness, with in-depth data assessment necessary to migrate to the utility network and implement all the desired functionalities. It also includes conducting a data completeness and accuracy analysis of the existing GIS data. We will perform the following checks in the data using ArcGIS Data reviewer, Python and SQL scripts, and network connectivity tools in ArcGIS Desktop:

- Geometry checks
- Spatial Coincidence checks
- Network Connectivity checks.
- Unique ID checks
- Domain consistency checks
- Attribute completeness checks for essential attributes (lifecycle status, subtype, ownership, integration fields, etc.)
- Sewer system will have additional checks.
 - Pipes
 - Flow Direction



- Upstream Inverts > Downstream Inverts
- Identify and flag structures with:
 - Split manholes.
 - Elevated manholes
 - Drop manholes.
 - Junction structures

DCSE Deliverables: Updated Data Assessment Report

IRWD's Responsibility: Provide latest Geodatabase Data, review, and approve deliverables.

Subtask 4B - Prepare Existing Data on Enterprise Geodatabase

IRWD already has editor tracking fields in the data which will be leveraged to track edits in existing data while DCSE team migrates the data. DCSE team will add a couple of fields for tracking migration status of the features on IRWD's enterprise geodatabase using a python script.

- **The migration ID field** this will be a concatenation of the feature class, subtype, object ID and global ID. An automatic rule will be set up so that the field gets automatically populated for new features.
- The destination field this will be concatenation of the destination feature class, asset group, and asset type. (This field will be blank originally, and populated at the end of this task, based on the migration plan.)

DCSE Deliverables: Updated Enterprise Geodatabase on IRWD site **IRWD's Responsibility:** Provide Access to Enterprise Geodatabase, review, and approve deliverables.

Subtask 4C - Data Remediation Plan and Analysis Summary Results

DCSE will create documentation for the data health report and data remediation plan. The data remediation plan will include all necessary changes to the data that must be done prior to migration. DCSE team will categorize the errors by type, priority, and provide a resolution for fixing the errors. It will also have QA/QC measures to ensure that the errors are completely resolved.

DCSE Deliverables: Data Health Report and Data Remediation Plan. **IRWD's Responsibility:** Review Documentation, Provide Feedback, and Approve deliverables.

Subtask 4D - Asset Packages Configuration

An asset package contains the schema for the utility network. Industry standard Asset packages are available from Esri for water and wastewater systems. DCSE team will also compare the latest Esri Asset packages for water and wastewater systems with IRWD's existing schema. At this stage, we will update the Industry Standard Asset Packages to meet IRWD's needs. These changes include adding new domains, domain values, adding new fields to support integrations, adding attribute rules, connectivity rules, containment rules, and adding new asset types and groups if necessary. The result from this activity will be updated Utility Network asset packages for water, and wastewater systems, that support migration, integrations, and workflows for IRWD. Configurations will be documented – including associations, terminals, subnetworks, traces, network diagrams, etc. The configurations in asset package will be leveraged first, and we will build on it based on IRWD's requirements.

DCSE Deliverables: Updated Asset Package, Schema documentation. **IRWD's Responsibility:** Review Schema, Provide Feedback, and Approve deliverables.



Subtask 4E - Data Mapping and Analysis

DCSE team will analyze IRWD's GIS data to determine suitability for the core Utility Network model and identify data irregularities that are incompatible with Utility Network requirements. As part of this task, we will prepare the migration spreadsheets that map all feature classes, fields, subtypes, and domains to the utility network dataset. DCSE will walk through the spreadsheets with IRWD first. IRWD will have the opportunity to review the spreadsheets prior to use in migration.

DCSE Deliverables: Data Migration Spreadsheets.

IRWD's Responsibility: Review Spreadsheets, Provide Feedback, and Approve deliverables.

Subtask 4F - Migration Plan

The DCSE Team will develop a detailed customized migration plan and roadmap for full migration to the Utility Network. The following is an overview of the migration plan as it relates to IRWD.

- DCSE Team will use the Esri's Data Loading Tools for the migration. The Data Loading Tools use spreadsheets to migrate the data. These spreadsheets are user-friendly and can be used to repeat the migration several times if necessary (e.g. migrating before fixing errors and after fixing errors).
- For the potable and recycled water systems, DCSE can leverage the work done during the pilot study from the past. For the wastewater system, DCSE has a template used for schemas similar to IRWD's Sewer dataset.
- The migration plan will also document the quality control measures to ensure accuracy, and completeness of the migrated data.

DCSE Deliverables: Migration Plan Document including Quality Control Measures. **IRWD's Responsibility:** Review Plan Document, Provide Feedback, and Approve deliverables.

Subtask 4G - Data Loading to Utility Network Asset Package in ArcGIS Pro

DCSE team will load the existing GIS data into the updated Utility Network asset packages in ArcGIS Pro using the Data Loading Tools from Esri. We will stage the Utility Network and apply the asset package which will result in the utility network datasets with the water, recycled water, and wastewater data. These datasets will be used to further investigate irregularities in the Utility Network data. The data will be in file geodatabase format at this stage. DCSE will perform this task on pilot data set, which will be deployed on the test environment to test integrations. The pilot data will have all errors resolved and configurations completed and will allow for thorough testing of the integrations. IRWD's GIS Editors, and Administrators will be provided with the necessary privileges, and licensing to access the Utility Network on the pilot environment.

Then the task will be repeated for the entire dataset, and the full dataset with utility networks will be deployed to the production environment. The full dataset will have some errors that will be resolved in task 5. By this time, IRWD should have ability to work in the Utility Network using the preliminary utility network data on the production environment. All GIS Editors, and Administrators will be provided with the necessary privileges, and licensing to access the Utility Network in the production environment.

DCSE Deliverables: Pilot UN datasets (deployed to pilot test server for integrations), Full UN Dataset (deployed to IRWD's test & production server).

IRWD's Responsibility: Review deliverables, provide feedback, and approve deliverables.



A.3.1.5. Task 5 – Test Environment, Error Resolution, and Data Cleanup Sub Task 5A – Develop a Plan for Error Resolution and Testing

This task will use information from prior Task to test the migration process and develop an error resolution and cleanup plan. The DCSE team will describe the test plan, define test cases, and describe the various stages of testing to final user acceptance and deployment. DCSE team will clearly define and communicate the process to IRWD to ensure existing integration points are kept and in working condition.

DCSE Deliverables: Test Plan Documentation with test cases, and Error Clean Up Plan **IRWD's Responsibility:** Review deliverables, provide feedback, and approve deliverables.

Sub Task 5B - Quality Control and Fixing the Data

The DCSE team will perform analysis and QA/QC of IRWD's existing database for the Utility Network conversion. We will provide a systematic approach to identifying, understanding, and resolving issues that may occur during the data migration. This will include reviewing errors, checking, and verifying ESRI documentations, examining log files, identifying patterns and dependencies, validating, and testing the data. DCSE team will include documentation on resolving the errors, cleanup process, issues encountered, recommended resolution options and solutions implemented.

DCSE will update the utility network datasets with the z coordinates, if IRWD prefers. (The pilot dataset will have the z-coordinates populated to give IRWD the experience of working with the 3D dataset.) Water and recycled systems will be provided with the z coordinates using contour data. Sewer system will use the invert elevations for the z-coordinates.

DCSE Deliverables: Error-free Datasets with Utility Networks for Water (potable and recycled) and Wastewater Systems, and Supporting Data

IRWD's Responsibility: Review deliverables, provide feedback, and approve deliverables.

Sub Task 5C – Utility Networks Deployments and Configurations

The Utility Networks will be deployed to DCSE's environment first. DCSE team will then proceed with fixing the errors based on the documentation provided. Subnetwork definitions and container definitions often result in dirty areas. Due to this reason, DCSE team will also create the subnetworks, and containers at this stage, and validate and test them for error-free utility network datasets.

The Utility Networks will be configured with the functionalities described in table below: (note that we are providing some examples below -this is not a complete list. Complete list will be developed as part of asset package configuration subtask 4D and implemented in this task).

Table 1 – UN Configurations

Configuration	Water & Recycled Water Examples	Wastewater Examples
Containers	Pump stations, PR Stations, Tank sites, Vaults, Wells, Interconnections	Lift stations, Treatment Plants, Network / Junction Structures
Associations	All facilities that are not connected by a line – e.g. backflows to meters	All facilities where flow direction must be enforced – e.g. junction structures
Subnetworks	Potable Water & Recycled Water Systems, Pressure Zones, Cathodic Protection, Isolation, Water Metering Areas	Wastewater System, Sub areas,
Traces	Isolation, System (Water, Recycled)	Upstream, downstream



Configuration	Water & Recycled Water Examples	Wastewater Examples
Network	Schematics of major facilities, Pressure zones	Schematics of major facilities, Sub
Diagrams		areas
Attribute Rules	Unique ID, Symbol Rotation,	Attribute transfer of invert
		elevations
Connectivity	Valves must connect to 2 pipes	Connectivity between cleanouts
Configurations		and service lines.
Terminals	Pump stations, System meters, Tanks, Wells, Pumps,	Lift stations, Junction structures,
	Check valves, PR stations and valves	outfalls

A copy of the dataset will be preserved at this stage to get ready for production.

DCSE Deliverables: Error free, Configured Datasets with Utility Networks for Water (potable and recycled) and Wastewater Systems, and Supporting Data

IRWD's Responsibility: Review deliverables, provide feedback, and approve deliverables.

Sub Task 5D – Utility Networks Testing

At this stage, DCSE will migrate the completed and Configured Utility Network datasets to IRWD's test environment. Thorough testing will be conducted on the new utility network datasets including the integrations on IRWD's test environment. Upon DCSE's completion of testing and validation, IRWD can start testing the Utility Networks, along with configurations and integrations. IRWD's GIS Editors and Administrators will be provided with the necessary privileges, and licensing to access the Utility Network in this Environment.

DCSE Deliverables: Error free, Configured Datasets with Utility Networks for Water (potable and recycled) and Wastewater Systems – Deployed to IRWD's Test Environment. **IRWD's Responsibility:** Review deliverables, participate in testing, provide feedback, and approve deliverables.

A.3.1.6. Task 6 – Final Implementation and GIS Integrations Update Sub Task 6A – Final Implementation

After Tasks 4 and 5 have been completed, this task will implement the plans described for full implementation and migration to the Utility Network. DCSE Team will compare the Utility Network datasets archived prior to testing stage and update it with any changes that happened to existing data. IRWD's GIS Editors and Administrators will be provided with the necessary privileges, and licensing to access the Utility Network on the final implementation / production.

The DCSE Team will provide support until the utility network is fully implemented. This will include support for user training, issue resolution, performance monitoring and other training required during the Final Implementation process. The final implementation will result in a fully working utility network environment that enables IRWD to use all tools available in the utility network (tracing, subnetworks, containers, etc.).

DCSE Deliverables: Error free, Configured Datasets with Utility Networks for Water (potable and recycled) and Wastewater Systems – Deployed to IRWD's Production Environment. **IRWD's Responsibility:** Review deliverables, provide feedback, and approve deliverables.

Sub Task 6B – Update Existing Integrations

IRWD's GIS system is integrated with several enterprise business systems described in Task 2. This task includes the following:



- Analyze and document the impacts of the UN migration to all existing integrations.
- Provide recommendations on how and when the integrations should move forward alongside the Utility Network migration process.
- Implement the recommendations for updating the integrations.
- The goal of this task is to ensure seamless data exchange between GIS and other enterprise systems.

DCSE Deliverables: Updated Integrations on IRWD's Production Environment, working with the new Utility Network datasets.

IRWD's Responsibility: Review deliverables, provide feedback, and approve deliverables.

A.3.1.7. Task 7 – Workflow To Edit and Manage UN Data/Schema and Data Analysis

Sub Task 7 A – Workflow Configuration and Documentation

Task 2 documents the current workflows for IRWD. As part of this task, DCSE will configure workflows for IRWD to ensure that the GIS administration and editing experience is smooth, and seamless. We will be setting up map templates in ArcGIS Pro for publishing, editing, quality control, and data analytics. Editing templates, feature templates, and group templates will be created according to IRWD's Standards. Current business processes will be automated using scripting, geoprocessing tools, or tasks wherever feasible.

The workflows related to branch versioning will also be defined, with editing process for typical redlines, new developments, bulk edits to facilitate integrations, and the like. Right after the pilot migration in task 4, we will assist in setting up workspace setup, permissions, templates, and establish rules. This will establish a structured and efficient workflow for editing in Utility Network. Later, the configuration will be done for the final production datasets and Utility Network Feature Services. As part of the configuration, DCSE team will create 1 Web Map, 1 Web Scene, and 1 Experience Builder with tracing capability each for water, and wastewater systems.

Documentation will be created, and tested to validate that the workflows perform successfully in the new Utility Network environment for editing, versioning, quality control, testing, and backup and recovery. Separate documents will be created for the GIS Users, GIS Editors and GIS Administrators.

DCSE Deliverables: Workflow Documentation, Workflow Configuration, ArcGIS Pro Templates for Editing, Mapping, Publishing, Feature Templates, Styles, Web Maps, Web Scenes, and Experience Builder Apps. **IRWD's Responsibility:** Review deliverables, provide feedback, and approve deliverables.

Sub Task 7B - Training

Most of our training sessions will be held in person, with some remote training when preferred by IRWD. All training sessions will be recorded, and videos will be provided to IRWD.

Prior to training:

The IRWD staff will be ready for training by the time pilot is completed. DCSE team will create a training roster with the IRWD staff names, roles, and identify the privileges needed based on the workflows performed by the user or editor. With the IRWD GIS Administrator's approval, we will define the roles on the server. IRWD's GIS Administrator can shadow DCSE staff performing these administrative tasks – this will be part of the administrator training as well.



DCSE team will conduct a pretraining session with each GIS User / Editor / Administrator to ensure that:

- The IRWD Staff has the right tools, licenses, and extensions (ArcGIS Pro 3.1, Utility Network User Type if necessary, right browser if using web maps or Experience Builder).
- The IRWD Staff have access to the Utility Network feature service.
- The performance of the Utility Network Service on the IRWD Staff's is optimal we will test with some edits, and traces.

Pre-training checklists will be used to ensure that the requirements have been met. DCSE will also collect source material from IRWD for use in training demos and hands-on exercises. E.g. red line markups, as-built drawings for Capital Improvement Project, or for a new development.

Training Materials:

DCSE team will provide the trainees with the following materials prior to training:

- 1. User Guide and Workflows Documentation separated for each system and user group systems are water (Potable water, and recycled water) and Wastewater systems. User groups are user, QC staff, and editor. Administrators will have same documentation as their material does not vary by the system type.
- 2. Cheat sheet with short cuts.
- 3. Power point presentation to guide the training.
- 4. Hands on training exercises for each workflow.

Training Session:

A typical training session will start with explaining the concept using the power point, referencing the documents, and demonstrating an example. Training sessions will always have a recap of the prior session. All training sessions will be recorded and provided as deliverables.

For the hands-on exercises part, DCSE team will oversee the trainees while they work on the sample workflows. If the exercises cannot be completed during session, DCSE team will be available to answer any queries whenever IRWD staff is working on the exercises. DCSE Training Team will be available on Microsoft Teams and be ready for a screen share session.

Administrator Training

Duration

Upon completion of the pre-training, DCSE team will start with the training spread over 2 weeks, and in increments of 4 hours. Training will be conducted 2 times a week, with a total of 16 hours (2 weeks x 4 times a week x 2 hours).

Training Outline

- Administration of the UN Geodatabase
- Administration of the UN Feature Service
- Understanding UN Schema and Architecture
- Schema changes
- Administering Bulk Edits, and bulk migration (new developments)
- User and License Administration
- Optimizing ArcGIS Pro for Administrative Tasks



- Branch Version Administration
- UN Configuration and Management (specific to water, and sewer)
 - Terminals
 - Subnetworks
 - UN Rules
 - Network diagrams.
 - Asset Packages
- Portal Administration for UN Components Sharing, Access

GIS Editor Training

Training Duration

Upon completion of the pre-training, DCSE team will start with the training spread over 8 weeks, and in increments of 2 hours. Training will be conducted 2 times a week, with a total of 32 hours (8 weeks x 2 times a week x 2 hours). Roughly 60% of the training will focus on the water (potable + recycled) system, and 40% on the wastewater system.

Training Outline

- Introduction to Utility Network Elements, and Schema
- Migration mapping how the data was migrated and where all features are now located including network, non-network, basemap, and annotation datasets.
- IRWD Editing Configuration settings in ArcGIS Pro
- Version management workflow this will feature some simple edits performed by editors,
 Quality control by staff responsible for QC. This exercise will walk-through the different steps
 following documented workflows so that editors and quality control staff become comfortable
 with the branch version workflows.
- Editing Workflows
 - Document Linking
 - Maintaining the Integration Fields, Unique IDs
 - New facilities such as hydrant assemblies, meter manifolds
 - Editing attributes impact on traceability
 - Realigning pipes
 - Segmenting (splitting) pipes
 - Lifecycle status changes Abandoning, replacing, or removing facilities.
 - New developments with as-built drawings (CAD drawings to be leveraged if available)
 - Managing casings, easements
 - Working with annotations
 - Working with related tables
 - Connectivity and Associations
 - Containments at pump stations, tanks, treatment plants, vaults how to maintain them, create new facilities, and leverage them.
- Data Validation (performed by editors)
 - Network Topology Fixing Errors, validation.
 - Ensuring data is trace-able understanding the sub networks, and editing to maintain the network connectivity, running different kinds of traces like isolation trace, subnetwork trace.



- Network diagrams creating, updating, leveraging.
- Quality Control Workflows (performed by Quality Controllers)
 - Data integrity checks using ArcGIS Data Reviewer, and Automation in ArcGIS Pro
 - Network connectivity checks.
 - o Topology Validation
- Publishing
 - Map Publishing web map optimization, 3D scene optimization.
 - Atlas Map Series Management
 - Sharing network traces, network diagrams, and new functionalities of Utility Network for water and sewer utility network users.

GIS User Training

Please note that we will minimize changes to users view of the GIS data by having similar interfaces, symbology, and layerization that they are used to seeing. The training will focus on new UN functionalities that have become available, e.g., tracing. This will help with minimizing the change management overall.

Training Duration

DCSE team will provide training for the GIS Users – there will be 2 separate training sessions – for the water system, and sewer system. Each training will be for a duration of 3 hours, and a total of 6 hours.

Training Outline

- Introduction to the new UN data
- Accessing the UN through web applications— URLs, Credentials
- Querying data
- Tracing
- 3D Views

DCSE Deliverables: Pretraining check lists, Training, User Guides and Workflows Documentations, Hands on Training Workbooks, Cheat sheets, Training Power Points, Training Recordings **IRWD's Responsibility:** Provide source sample material needed for training, Coordinate training sessions, Attend training sessions, Follow through training exercises, Review deliverables, provide feedback, and approve deliverables.

A.3.1.8. Task 8 – Deliverables

DCSE has provided deliverable listing for each task in the scope described above, which we are listing in the table below. Our list of deliverables includes Meeting minutes for all meetings, and Digital Word, Excel, Access, and GIS files for all tasks.

Table 2 - List of Deliverables

Task #	Task / Sub Task	DCSE Deliverables
1	Project and Data Management	Meeting Minutes and Recordings, Project Schedule in GANTT Chart Format, Work Plan, Status Reports, DevOps – Organized inside Microsoft TEAMS Channel
2	Utility Geodatabase Migration	



Task #	Task / Sub Task	DCSE Deliverables		
2A	Identify and document the existing GIS data schema	Document with Existing GIS Data Schema, overview of how data will be migrated, and recommendations for UN schema extension to support IRWD's requirements		
2B	Identify and document the existing attribute rules	Document with Existing Attribute Rules, and Recommendations for additional rules in UN environment		
2C	Editing processes and workflows	Document with Existing Attribute Rules, and Recommendations for Workflows in UN environment		
2D	MapLibrary Integration Sourcing to Utility Network	Document with MapLibrary Integration Requirements for UN environment		
2E	Cloud MapLibrary Integration Sourcing to Utility Network	Document with Cloud MapLibrary Integration Requirements for UN environment		
2F	Plancheck Integration Sourcing to Utility Network	Document with Plancheck Integration Requirements for UN environment		
2G	Field Mapplet Mobile Integration	Document with Field Mapplet Integration Requirements for UN environment		
2H	Mapplet Integration	Document with Mapplet Integration Requirements for UN environment		
21	Cloud Web Maps and Instant Apps	Document with Cloud Web Maps Integration Requirements for UN environment		
2J	Maximo Integration	Document with Maximo Integration Requirements for UN environment		
2K	Customer Care and Billing (CC&B) Integration	Document with CC&B Requirements for UN environment		
3	Review and Upgrade GIS Infrastr	ucture		
<i>3A</i>	Develop Architecture Plan – Per 2023 Network Management Release Plan	Updated Architecture Documentation for Utility Network Migration Per 2023 Network Management Release Plan		
3В	Implement Architecture Plan with 2023 Network Management Release Plan	Upgraded Enterprise Environment Ready to Support the New Utility Network on IRWD Site, Roadmap and Guidelines documentation for maintaining the GIS Infrastructure for Utility Network and All IRWD Integrations.		
4	Data Assessment and Migration Plan			
4A	Data Review and Planning	Updated Data Assessment Report		
4B	Prepare Existing Data on Enterprise Geodatabase	Updated Enterprise Geodatabase on IRWD site		
4C	Data Remediation Plan and Analysis Summary Results	Data Health Report and Data Remediation Plan.		
4D	Asset Packages Configuration	Updated Asset Package, Schema documentation.		
4E	Data Mapping and Analysis	Data Migration Spreadsheets.		
4F	Migration Plan	Migration Plan Document including Quality Control Measures.		
4G	Data Loading to Utility Network Asset Package in ArcGIS Pro	Pilot UN datasets (deployed to pilot test server for integrations), Full UN Dataset (deployed to IRWD's test & production server).		



Task #	Task / Sub Task	DCSE Deliverables			
5	Test Environment, Error Resolution, and Data Cleanup				
5A	Develop a Plan for Error Resolution and Testing	I PST PIAN DOCUMENTATION WITH TEST CASES, AND ETTOT CIENN LIN PIAN			
5B	Quality Control and Fixing the Data	ol and Fixing the Error-free Datasets with Utility Networks for Water (potable and recycled) and Wastewater Systems, and Supporting Data			
5C	Utility Networks Deployments Error free, Configured Datasets with Utility Networks for Water (potable and recycled) and Wastewater Systems, and Supporting Data				
5D	Utility Networks Testing	Error free, Configured Datasets with Utility Networks for Water (potable and recycled) and Wastewater Systems — Deployed to IRWD's Test Environment.			
6	Final Implementation and GIS Integrations Update				
6A	Final Implementation Error free, Configured Datasets with Utility Networks for Water (potable and recycled) and Wastewater Systems – Deployed to IRWD's Production Environment				
6B	Update Existing Integrations Updated Integrations on IRWD's Production Environment, working with the new Utility Network datasets.				
7	Workflow To Edit and Manage UN Data/Schema and Data Analysis				
<i>7A</i>	Workflow Configuration and Documentation and Editing, Mapping, Publishing, Feature Templates, Styles, Web Maps, Web Scenes, and Experience Builder Apps.				
7B	Training	Pretraining check lists, Training, User Guides and Workflows Documentations, Hands on Training Workbooks, Cheat sheets, Training Power Points, Training Recordings			

We have several reports listed for each task and sub task. We will be creating a draft report in PDF format at end of the project with all the deliverables described in above table. It will contain a summary and detailed description of all tasks, and include detailed guidelines including Assessments, data models, workflows, system architecture, technical requirements, data mapping, test plans and cases, quality assurance process, training material, strategy, and ongoing maintenance plan.

Upon IRWD's Review and Approval, the DCSE Team will provide IRWD with the Final Report in PDF format.

DCSE Deliverables: Draft Report, Final Report

IRWD's Responsibility: Review Draft Report, Provide feedback, and Approve Final Report.

A.3.2. Optional Tasks

A.3.2.1. Task OPT-O-1 – System Performance Support

The DCSE Team will provide IRWD with remote system performance testing support in the District's test environment (during system acceptance testing) and tuning support in the production environment (during system rollout) for the utility network implementation.

ArcGIS Monitor

At least one week prior to the engagement, DCSE Team will install and configure ArcGIS Monitor, review the District's monitoring requirements, and demonstrate ArcGIS Monitor functionality.



After the ArcGIS Monitor deployment, DCSE Team will conduct two-day review and implement ArcGIS Monitor configuration settings based on the District's requirements specified in the accepted System Architecture Design Report, and provide knowledge transfer of standard ArcGIS Monitor technology topics such as:

- Configuration
- Administration
- Analysis and interpretation of monitoring outputs
- Custom monitoring counters and extensions, and reports.

Prior to the start of this task, DCSE Team will prepare a Software Installation Checklist that will be used to validate the completeness of ArcGIS Monitor installation. The Software Installation Checklist will be submitted for review, comment, and acceptance.

Network System Performance Testing Support – Test Environment

During the system acceptance testing task, the DCSE Team will provide five days of remote support to conduct system performance testing on the ArcGIS Enterprise system in the test environment for utility networks for water and sewer systems. The consulting services will include the following:

- Discuss and examine top 5 workflows that exhibit poor performance based on ArcGIS Monitor log files
- Review current ArcGIS product implementation and configuration
- Discuss best practices for troubleshooting performance issues
- Determine where the time is being spent in slow performing operations
- Report any system-level bottlenecks found
- Review and discuss components that are impacting performance

Upon completion of the remote system performance testing support, DCSE Team will prepare a System Performance Testing Report – Test Environment that will detail DCSE Team's findings, observations, evaluations conducted, and actions taken through the course of the testing effort.

The System Performance Testing Report – Test Environment will be submitted for review, comment, and acceptance.

System Performance Tuning Support – Production Environment

During completion of the District's production system rollout activities, DCSE Team will provide five days of remote support to conduct the system performance tuning of the production ArcGIS Enterprise system supporting the water utility network. The consulting services will include the following tasks:

- Discuss and examine top 5 workflows that exhibit poor performance based on ArcGIS Monitor log files
- Review current ArcGIS product implementation and configuration.
- Discuss best practices for troubleshooting performance issues.
- Determine where the time is being spent in slow performing operations.
- Report any system level bottlenecks found.
- Review and discuss components that are impacting performance.



Upon completion of the remote system performance tuning support, DCSE Team will prepare a System Performance Tuning Report - Production Environment that will detail DCSE Team's findings, observations, evaluations conducted, and actions taken through the course of the tuning effort. The System Performance Tuning Report - Production Environment will be submitted for review, comment, and acceptance.

DCSE Deliverables: Two-Day Remote Installation and Configuration of ArcGIS Monitor, Five-Day Remote System Performance Testing Support for Test Environment, System Performance Testing Report – Test Environment, Five-Day Remote System Performance Tuning Support for Production Environment, System Performance Tuning Report - Production Environment

IRWD's Responsibility: Provide access to environment, provide licensing files, review and approve deliverables.

A.3.2.2. Task OPT-O-2 – Upgrade to the Network Management Release 2024 or 2025

For the proposed project, DCSE Team will be implementing the 2023 Network Management Release plan for Esri that includes ArcGIS Enterprise 11.1 and ArcGIS Pro versions range from 3.1 to 3.5. This release provides IRWD with a stable environment until mid-2027. Esri is expected to release the 2024 Network Management Release (2024 to 2028) and 2025 Network Management Release (2025 to 2029) plans by the end of the proposed project. It is anticipated that the new releases will provide more functionalities, and most importantly, a stable environment for IRWD's utility network that works well with other enterprise components, operating systems, applications, and databases. In this optional task, DCSE team will upgrade IRWD to the latest Network management release plan, and ensure that all integrations, and workflows continue to be operational at IRWD.

Assumptions: Assuming IRWD staff will assist with the hardware portions.

DCSE Deliverables: Upgrade IRWD' environment to comply with latest Network Management Release plan (2024 or 2025 – TBD, documentation, training on maintaining the upgraded environment **IRWD's Responsibility:** Provide access to environment, provide licensing files, review and approve deliverables.

A.3.2.3. Task OPT-O-3 - Yard Piping

This task is to assist IRWD in filling in data gaps, particularly at major facilities using as-built drawings.

Sub Task O-3.1 – Adding Yard Piping for Potable & Recycled Water Systems

DCSE is providing this optional task so that we can update any information from as-built drawings if deemed necessary by IRWD. If IRWD opts for this task, it is best to perform it within Task 4, prior to data migration.

Assumptions: Assuming 200 as-built sheets of Standard Arch D or E size, 1'' = 40' scale.

IRWD Responsibility: Provide source as-builts, review, and approve deliverables.

Deliverables: Updated Potable & Recycled Water Utility Network Data

Sub Task O-3.2 – Adding Yard Piping for Wastewater System

DCSE is providing this optional task so that we can update any information from as-built drawings if deemed necessary by IRWD. If IRWD opts for this task, it is best to perform it within Task 4, prior to data migration.

Assumptions: Assuming 200 as-built sheets of Standard Arch D or E size, 1'' = 40' scale.

IRWD Responsibility: Provide source as-builts, review, and approve deliverables.



Deliverables: Updated Wastewater Utility Network Data

A.3.2.4. Task OPT-O-4 - 3D Models.

DCSE will utilize Al-powered drones to collect high-resolution aerial photographs of four (4) of IRWD's plant sites (One tank site, one booster station, and two Lift stations).

The collected images will then be processed by our photogrammetry specialist to generate a precise and dynamic 3D model of the asset. The 3D model will take advantage of the Utility network's 3D support and act as a digital counterpart to the physical structure/asset, allowing the user to view the asset and its features from multiple angles.). *Figure 9* provides an example of the resulting deliverable for this optional task.

3D models help our clients to make informed decisions based on complete visibility. They can also be used to document the existing conditions of the structure/asset with impressive detail and clarity. This 3D model can also be used to improve the details of the Utility Network in the plant areas where the geometry and location of the vertical assets are currently unavailable.

DCSE team has performed this task as part of pilot study for IRWD a couple of years ago for a water pump station.



Figure 9 – Left side - Sample Drone Model overlaid with UN Data, Right side – UN data in 3D View, refined per Drone model.

Assumptions:

- Contiguous outdoor areas larger than 8,000 sqft and indoor areas larger than 5,000 sqft need to be assessed on a case-by-case basis.
- Outdoor areas are not within restricted airspace. DCSE will assess each site before the data gathering phase.

Deliverables: 3D Models of **4** facilities, Documentation, and usage demonstration, Updated Utility Network Data.

IRWD Responsibility: Provide access to the facility, review and approve deliverables.



B. TEAM

The *Figure 10* presents the organization chart specifically tailored for this project, illustrating the dedicated team structure and roles. Later in this section, we will detail the qualifications and expertise of our team members.

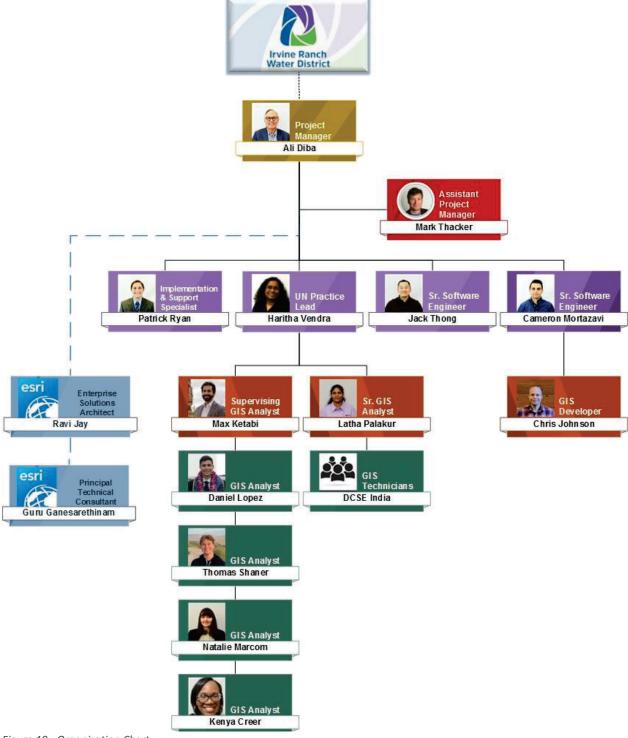


Figure 10 - Organization Chart



Table 3 - Staff Experience & Availability Summary

Table 3 - Staff Experies Staff	Proposed	Location	Experience Summary	IRWD UN &
	Project Titles (% Time Commitment)			Integration-related Experience
Ali Diba	CEO of DCSE/ Project Manager (15%)	Laguna Hills, California HQ	30+ years of experience implementing GIS in the Water Industry. Seasoned architect and evangelist of Utility Network implementations. Experienced agile technology implementer.	Architect of many IRWD integrations. Main author of IRWD's GIS Masterplan.
Mark Thacker	Assistant Project Manager (15%)	Laguna Hills, California HQ	20+ years of experience in project management, spanning acquisitions, SaaS transformation, and global expansion. Proven track record in leading diverse teams and driving product development across various sectors.	
Haritha Vendra	Utility Network Practice Lead / Senior GIS Analyst (25%)	Laguna Hills, California HQ	20+ years of experience in implementing GIS for Water/Wastewater agencies. Highly Experienced with Utility Network implementations, Vertical assets, GIS workflow development, ArcGIS Enterprise, Enterprise Geodatabases.	Managed IRWD's pilot Utility Network migration for water.
Jack Thong	Sr. Software Engineer (10 %)	Laguna Hills, California HQ	20+ years of experience in creating custom GIS solutions and web-based applications. Lead developer for DCSE/Spatial Wave's MapLibrary product.	Has integrated and provided support for IRWD's Maximo, Mapplet and MapLibrary.
Max Ketabi	Supervising GIS Analyst (20%)	Laguna Hills, California HQ	9+ years of GIS experience with an extensive background in environmental planning, land development, photogrammetry, and GIS project management. Highly experienced with ArcGIS Pro and Utility Network.	Worked on the pilot Utility Network. Produced a 3D model of the Shaw Pump Station in UN.
Latha Palakur	Senior GIS Analyst (15%)	Laguna Hills, California HQ	20+ years of experience in implementing GIS for Water agencies. Highly experienced with UN Migrations, Schema Development, Scripting, Data Reviewer, Enterprise Geodatabases, Reporting, Mapping, ArcGIS Portal, and ArcGIS Online.	Worked on schema configurations & UN viewers for the Utility Network Pilot project.
Ravi Jay (Esri)	Enterprise Solutions Architect	Redlands, California (Esri HQ)	More than 20 years of experience developing, designing, and architecting solutions using ArcGIS Suite of products.	
Guru Ganesarethinam (Esri)	Principal Technical Consultant	Redlands, California (Esri HQ)	More than 29 years of experience in GIS technology with project and technical management skills. Collaborated in creating Water Asset Package for Utility Network	



Staff	Proposed Project Titles (% Time Commitment)	Location	Experience Summary	IRWD UN & Integration-related Experience
Chris Johnson	GIS Developer (10%)	Laguna Hills, California HQ	10+ years of experience working with utility agencies – highly experienced in implementing GIS Integrations.	Has worked on Web Maps, Field Mapplet, Cloud Mapplet, and Instant Apps for IRWD.
Patrick Ryan	Implementatio n & Support Specialist (5%)	Las Vegas, Nevada	9+ years of experience in analysis and business process evaluation, software design/architecture proven in various projects of different scales.	Has worked on IRWD's ArcGIS Enterprise Configuration.
Cameron Mortazavi	Sr. Software Engineer (10%)	Laguna Hills, California HQ	10+ years of experience developing Web- Based related applications for DCSE/Spatial Wave. Field Mapplet lead implementer.	Has integrated and provided support for IRWD's CC&B and Field Mapplet
Natalie Marcom	GIS Analyst (15%)	Laguna Hills, California HQ	2+ years of experience in GIS data editing, QC/QA, ArcGIS Online, and geostatistical analysis.	
Daniel Lopez	GIS Analyst (15%)	Porter Ranch, California	2+ years of experience in GIS data editing, QC/QA, ArcGIS Online, and geostatistical analysis.	
Thomas Shaner	GIS Analyst (15%)	Redlands, California	1+ year of experience in GIS data editing, QC/QA, ArcGIS Online, and geostatistical analysis.	
DCSE India	Off-shore GIS Technicians (40%)	Bangalore , India	20+ year of experience with GIS utility mapping, data adjustment & data conversion.	Has assisted with Schema Mapping for the pilot UN project.

Below is a concise overview of our staff's qualifications and areas of expertise. For a more comprehensive understanding of each team member's experience and specific contributions to various projects, please refer to *Appendix B – Resumes*. This appendix provides detailed resumes that delve deeply into the individual backgrounds, skill sets, and professional journeys of our project members, offering a thorough perspective on their capabilities and accomplishments. DCSE hereby makes the unequivocal commitment that, in the event of an award of a contract to DCSE, the entire project staff identified in this proposal will be fully available and dedicated to fulfilling the duties required to complete this project on time and successfully.

ALI DIBA, PH.D, P.E. [Project Manager]

Dr. Ali Diba, a seasoned architect and evangelist of Utility Network implementations at DCSE, has played a pivotal role since the early development stages of Utility Network by Esri. He has led multiple implementation projects and is experienced in integrating Asset Management and CIS/Billing Systems such as Maximo and Oracle CC&B with diverse enterprise systems. His expertise extends to GIS-centric applications using Oracle, including SDE synchronization and mobile GIS-enabled applications. With a rich experience spanning over 30 years, Dr. Diba has managed the development of GIS-based asset management systems and worked with numerous public and private agencies across the US. He has led projects for cities like Los Angeles, San Bernardino, Riverside, Anaheim, Oceanside, and San Diego. His technical proficiency encompasses GIS applications in both Microsoft Windows and Linux environments,



28

distributed geospatial database design, and service-oriented architecture. Dr. Diba is proficient in design and implementation of Utility Network in the water and wastewater industry. His most recent work included extending the Utility Network data model to vertical asset facilities such as treatment plants and pump stations.

<u>Dr. Diba will be responsible for project implementation and delivery. He will oversee all aspects of the project.</u>

MARK THACKER, B.A. [Assistant Project Manager]

Mr. Thacker is a seasoned project manager with a strong background in Agile project management and leadership across multicultural and cross-functional teams. His expertise spans large-scale project delivery, transformation of ERP products to SAAS models, and the development of teams focused on continuous improvement. With global experience in the USA, UK, Hong Kong, India, and Australia, he excels in strategic development, stakeholder engagement, risk management, and achieving results through decisive leadership and a client-centric approach.

Mr. Thacker will be responsible for supporting project planning, coordinating team communications, managing resources, assisting in identifying and mitigating risks, facilitating stakeholder communications, helping in problem-solving, and applying project management best practices, contributing to the project's overall success.

HARITHA VENDRA, P.E., GISP, M.S. [UN Practice Lead]

Ms. Haritha Vendra, with over two decades of GIS and Hydraulic Modeling expertise, has a strong background in Utility Network, GIS project management, and water & wastewater system GIS. Her credentials include a Utility Network Specialty Certification from Esri, and she has been instrumental in several Utility Network migrations. Her skillset is robust in Oracle and MS-SQL Server for back-end databases and includes comprehensive knowledge in GIS database administration, such as version management and performance optimization. Ms. Vendra's experience encompasses GIS integration projects involving Utility Billing Systems, Hydraulic Modeling, CMMS, Asset Management Systems, Document Management Systems, SCADA, and field applications.

Ms. Vendra will be responsible for Utility Network Conversion Planning and Implementation. She will participate in all the tasks, including configuring the Utility Network, deploying to test and production environments, and training. She will work closely with IRWD, and the DCSE team, to ensure smooth flow of information, and daily project progress.

LATHA PALAKUR, M.S. [Senior GIS Analyst]

Ms. Latha Palakur brings over 20 years of GIS experience, with a focus on geodatabase design, scripting/automation, application development, and Utility Network. She is well-versed in ArcGIS Desktop applications, ArcGIS Pro, Servers, Online, Portal technologies, Python, and AutoCAD. She is also instrumental in product documentation, testing, and training. Her work includes conversion/migration projects for various utilities and the development of Utility Network elements like assemblies, containers, and subnetworks, along with extensive experience in schema updates and geodatabase management.



29

Ms. Palakur will be responsible for Utility Network schema design, data mapping, and implementation of any reports. She will provide any support needed for integration and set up native apps and maps on ArcGIS Portal to leverage Utility Networks. She will also facilitate training – especially in branch versioning.

MAX KETABI, M.S. [Supervising GIS Analyst]

Mr. Max Ketabi's 9-year tenure as a GIS professional and FAA-certified drone pilot is marked by extensive work in environmental planning, land development, photogrammetry, and geospatial analysis. He has a keen interest in integrating Utility Networks with digital twins derived from drone imagery. His expertise extends to integrating Utility Networks with digital twins from drone imagery and ensuring data integrity using ArcGIS tools.

Mr. Ketabi will lead the data assessment and documentation process and guide a team of GIS Analysts through Utility Network migration and data cleanup. He is tasked with quality control, ensuring both premigration and post-migration data meet stringent standards. Additionally, Mr. Ketabi will develop internal and external dashboards and manage the implementation of 3D components for the project, including the creation of 3D models when required.

JACK THONG, B.S. [Sr. Software Engineer]

Mr. Thong has over 20 years of experience in GIS solutions, Internet GIS, Document Management, Business Automation, and Web Application Development. He is skilled in innovative design and problem-solving with strong management abilities. His expertise includes development with ColdFusion Studio, Visual Studio .NET, especially in GIS and database integration, as well as creating Windows-based applications and custom GIS applications using .NET and ESRI's toolkit. He is the lead developer for DCSE/Spatial Wave's MapLibrary product.

Mr. Thong will be responsible for UN integrations, specifically with MapLibrary, Plancheck, and Maximo.

CAMERON MORTAZAVI, B.S. [Sr. Software Engineer]

Mr. Mortazavi brings over a decade of experience in developing web-based applications, specializing in integrating Enterprise GIS systems with Computerized Maintenance Management Systems (CMMS) for DCSE and Spatial Wave. He has led implementations for notable products like Field Mapplet. He has significantly contributed to the Los Angeles Bureau of Sanitation's data management system (SANSTAR), and developed tailored data reports for Eastern Municipal Water District's mobile GIS. Additionally, he played a crucial role in upgrading IRWD's plan check system to Spatial Wave's MapLibrary, enhancing document tracking and retrieval, and developed a cloud-based application for maintaining and advancing their EGIS system.

Mr. Mortazavi will be responsible for UN integrations, specifically with Mapplet, Field Mapplet, and CC&B.

CHRIS JOHNSON B.S. [GIS Developer]

Mr. Johnson, with a decade of software development experience, specializes in creating custom solutions for municipalities. He is proficient in programming languages like Python and HTML/JavaScript and is well-versed in databases such as SQL Server and PostgreSQL. His expertise in utilizing ESRI

dcse

products for GIS web application development is notable, particularly in configuring dashboards and integrating GIS with various third-party systems. His proficiency also encompasses cloud computing and asset management tools.

Mr. Johnson will be responsible for providing integration support to our senior software engineers. He will also identify opportunities to automate the data migration, schema updates, and any workflow needing repetition throughout the project.

PATRICK RYAN B.A., B.S. [Implementation & Support Specialist]

Mr. Ryan brings over nine years of experience in technology, specializing in requirements analysis, business process evaluation, and software design. He has effectively implemented DCSE's software solutions, demonstrating proficiency in C++, Python, Java, JavaScript, and SQL, along with key technologies like Visual Studio, Linux, and .NET. Known for his strong problem-solving and mentoring skills, Mr. Ryan excels in coding, debugging, and IT infrastructure support, making him a versatile and a valuable asset in any technical team.

Mr. Ryan will be responsible for evaluating and providing recommendations for the environment, architecture, servers, and their specs for the proposed test and production environments. He will also assist with any deployments to the test and production environments.

NATALIE MARCOM, M.A. [GIS Analyst]

Ms. Marcom has 2 years of experience in geospatial and geostatistical analysis, dashboard configuration, software development, remote sensing, web mapping, and social sciences. Ms. Marcom's work at DCSE has focused on data collection, quality checking, reviewing, and processing GIS data for Utility Network. Ms. Marcom's work background in geography and scripting has built a solid foundational skillset for her use of GIS.

Ms. Marcom will be responsible for data review, data clean-up, quality checking, and GIS support.

DANIEL LOPEZ, B.S. [GIS Analyst]

Mr. Lopez is a GIS Analyst with 2 years of experience in GIS projects and software, with a keen interest in utilities and satellite imagery projects. He is skilled in ArcGIS Pro and has experience with data cleanup and addressing dirty areas within Utility Networks.

Mr. Lopez will be responsible for data review, data clean-up, quality checking, and GIS support.

THOMAS SHANER, B.A. [GIS Analyst]

Mr. Shaner is a GIS Analyst with a background in geography and GIS. He has contributed to key projects, including the IRWD's Meter to Parcel, where he enhanced landscape measurement accuracy, and the GIS Master Plan Story Map, creating an engaging summary of the district's master plan.

Mr. Shaner will be responsible for data review, data clean-up, quality checking, and GIS support.



KENYA CREER, M.A. [GIS Analyst]

Ms. Creer is proficient in GIS, with a comprehensive grasp of data maintenance, software integration, and geodatabase management. Her expertise extends to optimizing GIS workflows, evaluating spatial data, and supporting others with GIS tools and needs.

Mr. Creer will be responsible for data review, data clean-up, quality checking, and GIS support.

THOMAS SHANER, B.A. [GIS Analyst]

Mr. Shaner is a GIS Analyst with a background in geography and GIS. He has contributed to key projects, including the IRWD's Meter to Parcel, where he enhanced landscape measurement accuracy, and the GIS Master Plan Story Map, creating an engaging summary of the district's master plan.

Mr. Shaner will be responsible for data review, data clean-up, quality checking, and GIS support.

DCSE INDIA [Offshore GIS Technicians]

Our Offshore team brings 20+ years of expertise in GIS, CAD, and 3D modeling to their role as GIS/CAD Technicians for DCSE. They handle a range of tasks including the inventory of source as-builts, their conversion to GIS with detailed geometry, attributes, and linking, as well as migration from legacy GIS formats to modern schemas like the Utility Network. Their proficiency in drafting, understanding of water and wastewater systems, and experience with utility GIS projects form a solid skill base.

<u>DCSE India, under direct supervision of our onshore team, will be responsible for data adjustment, schema preparation, data mapping and GIS support.</u>

Esri is providing services on some of the tasks for the proposed project. The following is a summary of the staff experience, and detailed resumes have been included in *Appendix B – Resumes*.

RAVI JAY, M.SC., M.PHIL [Enterprise Solutions Architect] – Esri

Mr. Jayaraman has extensive experience architecting the integration of Spatial solutions with SAP/OMS/DMS/CIS/WMS. He has more than 20 years of experience developing, designing, and architecting solutions using ArcGIS Suite of products.

Mr. Jayaraman will be responsible for System Architecture Development.

GURU GANESARETHINAM [Principal Technical Consultant] - Esri

Mr. Ganesarethinam is a project manager and principal technical consultant in Esri's Professional Services Division. He worked on numerous data modeling and migration projects. He has completed several utility network migration projects. He also collaborated in creating Water Asset Package for Utility Network.

Mr. Ganesarethinam will be responsible for providing guidance on Data Migrations, and Utility Network Configurations.



C. EXPERIENCE

C.1. SPECIFIC UTILITY NETWORK & INTERGRATIONS EXPERIENCES

DCSE has specific domain expertise in GIS for water, wastewater, and recycled water systems - most of our clients are utility agencies. DCSE has deployed Utility Networks for similar agencies. DCSE's qualities and core values, along with our past experiences with similar projects, will ensure that IRWD's GIS needs for this project are fully and optimally addressed. Some of these qualities and past experiences are as follows:

- We have developed a Utility Network for *five agencies*, with more on the horizon.
- We have integrated with over **20** enterprise system vendors across document management systems, CMMS, CCTV, Permitting, SCADA, and utility billing. Several included data synchronizations with GIS, where we set up the mapping and automated the process.
- As Esri's partner, we have followed the industry changes, beta-testing the Utility Network and related technologies. We have established ourselves as a proven leader in the Water & Wastewater GIS domain for Utility Network.
- We have supported ArcGIS enterprise integrations with asset management systems, SCADA, document management systems, customer billing systems, etc. DCSE is an engineering firm with water & wastewater expertise, so we understand the requirements of additional integrations, such as Field Mapplet, MapLibrary, and Maximo.
 - We are the implementers of MapLibrary, Mapplet, Field Mapplet, Maximo Integration, Mapplet in Maximo, CC&B Integration, Plancheck, and Cloud Mapplet for IRWD. With our expertise in transitioning the data source from Geometric Network to Utility Network for these systems, IRWD can trust in a seamless and successful implementation. This approach minimizes risk and ensures the project's success.
- DCSE specializes in Utility Network deployment this involves migrating the GIS data to the
 enterprise and making it accessible through the Utility Network's service-based architecture.
 DCSE also has experience setting up access to Utility Network functionalities based on required
 privileges.

The matrix shown in *Table 4 - Recent UN Experience* provides the relevant experience summary of projects performed by DCSE in recent years. For most agencies, we have set up separate production and development environments. *Appendix C – Project Sheets* describes some of the projects listed here.

Table 4 - Recent UN Experience

Project	Business Process Assessment & Data Review	Data Migration	System Integrations	Training & Support
Irvine Ranch Water District (Utility Network – Water – Pilot Complete)	•	•	•	•
San Bernardino Municipal Water Department (Utility Network – Water & Sewer)	•	•	•	•



33

Project	Business Process Assessment & Data Review	Data Migration	System Integrations	Training & Support
Santa Clarita Valley Water Agency (Utility Network – Water – Vertical Assets, Horizontal Assets in Progress)	•	•	•	•
City of Long Beach (Utility Network – Recycled Water)	•	•	•	•
Elsinore Valley Municipal Water District (Utility Network – Wastewater – Pilot Complete)	•	•	•	•
City of Salem (Utility Network – Water, Sewer, Irrigation & Storm)	•			
Soquel Creek Water District (Utility Network – Water – Pilot Complete)	•	•	•	•
Moulton Niguel Water District (Utility Network – Water, Sewer, Recycled Water)	•			
Phelan Pinon Hills CSD (Utility Network – Water)	•			

Our vast and flexible team allows the client to use the right resources with the required skill set to perform the tasks. This ensures the successful completion of tasks efficiently and economically. In addition to our substantial work with our clients, we have hosted multiple webinars on Utility Network on the following topics: migration, functionality, applications, and maintenance. The QR codes below will give you access to a few of our webinar sessions on Utility Network.

Table 5 - QR Codes for Webinars Related to Utility Network

Webinar Session Topic	QR Code
Utility Network Functionalities	
Utility Network Capabilities for Water Systems: Study & Demo [Pt. 1]	
Utility Network Capabilities for Water Systems: Study & Demo [Pt. 2]	



Webinar Session Topic	QR Code
Utility Network in ArcGIS Pro Editing, Quality Control, Containment, Network Diagrams	
Utility Network on the Web Experience Builder	
Utility Network in 3D & Interactive Slice	
Public Notification and Utility Network Isolation	
GeoMerge Add-In for ArcGIS Pro to Synchronize Utility Network Data with Enterprise Systems such as CMMS/AMS	

C.2. REFERENCES

The following is a list of three (3) project references where we provided similar services within the last 5 years. We encourage IRWD to contact any or all our references listed in this section.

Table 6 - Reference – City of San Bernardino Municipal Water Department

Item	Information
Agency	City of San Bernardino Municipal Water Department
Name	Julie Abinto
Title	GIS Coordinator
Address	1350 South E Street, San Bernardino, CA 92408
Phone	(909) 522-3408
Email	julie.abinto@sbmwd.org
Project Size	Entire extent of SBMWD's data for Water System (48,000 services, 700 miles of mains) and Sewer System (38,300 services, and 493 miles of mains)



Project Objectives & Scope	Utility Network (UN): DCSE has also recently converted their Water, Sewer, Recycled systems to UN; we are currently providing training to their staff on Utility Network. This was a comprehensive Utility Network migration. DCSE performed a detailed database readiness assessment, migrated the data to the Utility Network, and conducted thorough testing in a development environment before the final deployment in the production environment. We also created 3D digital twins of plant sites using AI-powered drone technology and incorporated them into the Utility Network system.
DCSE Team Member(s) Involved	Ali Diba (Project Management), Haritha Vendra (Utility Network Conversion Lead), Latha Palakur (Application Developments & Utility Network conversion Support), Max Ketabi (3D Modelling & Utility Network Support), Natalie Marcom (data QC), Patrick Ryan (cloud infrastructure planning for enterprise GIS – test and production)
Project(s) Cost Date	\$186,026 2022-24

Table 7 - Reference - Santa Clarita Valley Water Agency

Item	Information
Agency	Santa Clarita Valley Water Agency (SCVWA)
Name	Cris Perez
Title	Director of Technology Services
Address	24631 Avenue Rockefeller, Valencia, CA 91355
Phone	(661) 295.6507
Email	cperez@scvwa.org
Project Size	Entire SVVWA Water System with 938 miles of pipe and 70,000 Services. The Vertical Asset Project involved data for treatment plants, pumpstations, wells, tanks, PR Stations, and Buildings. DCSE is currently working on the migration of the agency's linear assets.
Project Objectives & Scope	Phase 1 - Development of a Utility Network data model and application to manage vertical assets. This project provided the capability to switch branched versions of Utility Network when editing data. Numerous data quality python scripting was done to prepare the vertical asset data for loading into Utility Network. Phase 2 - DCSE just started assisting SCVWA in horizontal asset migration also for the water distributions system.
DCSE Team Member(s)	Ali Diba (Project Management), Haritha Vendra (Utility Network Development & Vertical Asset Management), Max Ketabi (3D Modelling & Utility Network Support), Latha Palakur (Utility Network conversion Support), Daniel Lopez (data QC)
Project(s) Cost	\$176,390 (Phase 1 + Phase 2 total)
Date	2022-24

Table 8- Reference - Contra Costa Water District (CCWD)

Item	Information
Agency	Contra Costa Water District (CCWD)
Name	David Cao
Title	GIS Analyst
Address	1331 Concord Avenue Concord, CA 9452
Phone	(925) 688-8005
Email	dcao@ccwater.com



 DCSE is currently conducting a Utility Network Assessment for CCWD. Migration from Oracle to SQL Server & Enterprise GIS Setup: In May 2019, DCSE assisted the District in migrating from Oracle to SQL Server for the GIS Geodatabase. Next, DCSE installed, configured, and set up an enterprise GIS environment using ArcGIS 10.6 Portal. Treated Water GIS Data Development: In 2005, DCSE converted the District's water system data to GIS from various formats such as as-builts and Microstation Atlas maps. The project began with a review of the District's geodatabase design, followed by data conversion. DCSE also scanned the District's as-built drawings and Microfiches for storage and retrieval from MapLibrary. The drawings were linked to the water mains in GIS. Untreated Water GIS Data Development: DCSE migrated the District's untreated water system from shapefile to Geodatabase format. The watershed data was also migrated to enterprise GIS. Site Maps GIS Data Development: DCSE has developed site maps for CCWD using data available in different formats (CAD, as-built scans). The site maps consisted of the facilities' information in various GIS layers that conveyed a complete picture to the users.
DCSE Team Ali Diba, Haritha Vendra, Max Ketabi, Latha Palakur, Natalie Marcom, Thomas Shaner, Jack Member(s) Thong & Patrick Ryan
Project(s) Cost \$1M+
Date 2005 - Present

C.3. OTHER UNIQUE UN CAPABILITIES

DCSE offers several capabilities which are unique but applicable in this project. These include the following:

- DCSE's expertise in extending Utility Network to cover Vertical Assets (i.e., pump stations, lift stations, treatment facilities, etc.)
- Modeling 3-D and Reality Capture of vertical facilities. This combined with Utility Network data model provides for a digital twin of the vertical facilities which can be viewed in Experience Builder.
- Software to Assist the Conversion and Integrations We have several products which will be available and used during this project if called for. These products include GeoMerge and GEAR.

Appendix D – Product Sheets showcase some of our products that work with Utility Network, while the following section has brief descriptions.



C.3.1. Vertical Assets in Utility Network

Utility Network has several capabilities including support for elevation (Z values) as well as support for containers which allow for maintaining vertical facilities data in Utility Network. This feature allows for extending the Utility Network data model to cover vertical facilities.

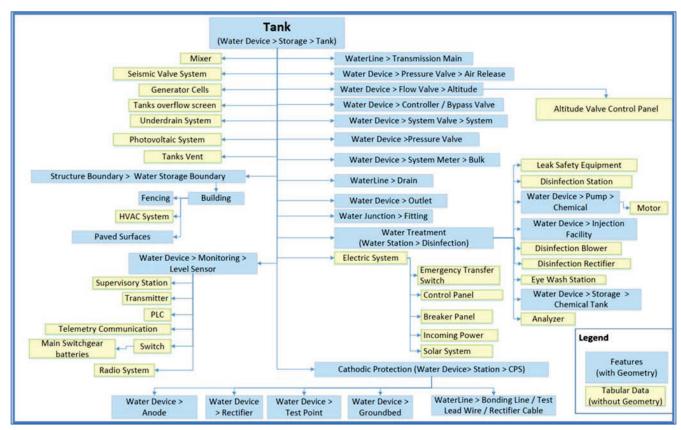


Figure 11- Extending the Utility Network Water Asset Package to Support Water Tanks

The *Figure 11* shows an example of extending the Utility Network data model to support water tanks. Yellow boxes refer to extensions implemented as tabular data which the blue boxes are Utility Network features. If interested, DCSE team can share their experience with the IRWD team in this area to develop a single system of record (i.e., Utility Network) for managing both linear and vertical assets in Utility Network.

C.3.2. Reality Capture of Vertical Facilities

One of the separating qualifications of DCSE includes the capability to create reality captures combined with Utility Network. Two examples of these capabilities are shown in *Figure 12* and *Figure 13*. This capability allows for the creation of an Experience Builder Application to edit the Utility Network data using a 3D viewer.





Figure 12 - Pump Station Reality Capture Combined with Utility Network

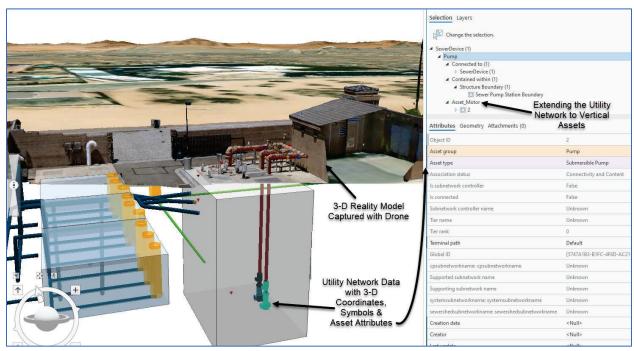


Figure 13 - Sewer Lift Station Reality Capture Combined with Utility Network

C.3.3. GeoMerge

Synchronizing data in different data sets is a challenge during the Utility Network conversion process. This challenge is aggravated due to the fact the ArcGIS Pro no longer supports editing geodatabases datasets that have Geometric Network. DCSE has developed a data synchronization tool which supports synchronizing of data between any source or destination including Utility Network, other Geodatabases,

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or tabular data. <u>GeoMerge is listed in the ArcGIS Marketplace</u>. IRWD may find this tool useful during post migration of the Utility Network. *Figure 14* below shows GeoMerge interface as an add-on to ArcGIS Pro.

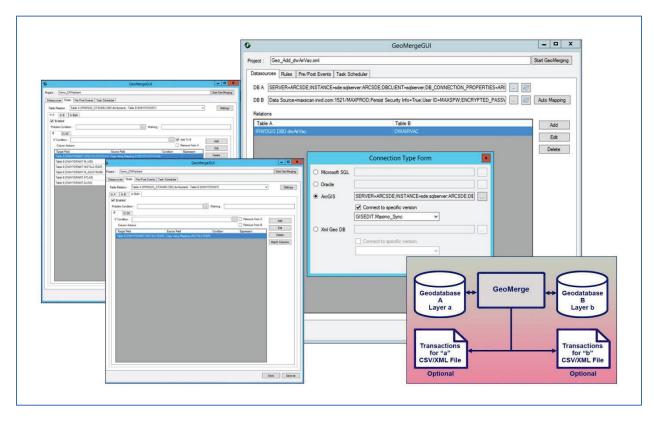


Figure 14 - GeoMerge Interface

C.3.4. GEAR

GEAR stands for GIS Enabled Asset Registry which provides a web interface to edit the Utility Network data by non-GIS users who are in charge of maintaining and managing vertical assets. GEAR connects to a branch versioned Utility Network. GEAR has the functionality to simplify the vertical asset maintenance in Utility Network to be performed by the engineering and operational supervisors that have been maintaining the vertical assets in a CMMS or spreadsheets used by operations. *Figure 15* shows the GEAR web interface. The web editing functionality of GEAR includes:

- Web enabled updating of the attribute data for a given asset.
- Web enabled replacement of an existing asset with or without geometry.
- Creation of a new asset in related UN tables.
- Visualization of the locations and the vertical assets in containers.



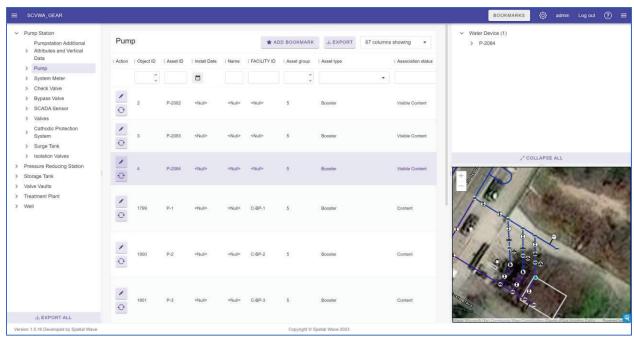


Figure 15 - GEAR Interface for Managing Vertical Assets in Utility Network



D. SCHEDULE

DCSE is providing a schedule that finishes the project within the October 2025 timeline specified in the RFP.

D.1. MILESTONE SUMMARY

The following is a summary of milestones in the schedule, in chronological order. Overall, the schedule reflects our approach of leveraging the pilot deployments for integration testing, and for training purposes. This ensures that the integrations will be ready by the time all data is migrated, and for IRWD staff to be ready with training needed well before the Go Live date.

Table 9 - Milestone Summary

Milestone #	Milestone Description	Milestone Date
1	Project Initiation & Kick off Meeting	5/1/2024
2	End of Assessment Phase	8/19/2024
3	Testing, Production Environments Ready	9/19/2024
4	Integration Requirements Complete	12/9/2024
5	End of Pilot Phase	12/9/2024
6	Training Completed	4/29/2025
7	Testing Completed	8/19/2025
8	IRWD to Freeze Edits	8/20/2025
9	Go Live on Production	9/23/2025
10	Project Completed	10/31/2025

D.2. DETAILED SCHEDULE

The DCSE Team's staff with skillsets will perform tasks in parallel as identified in the schedule, to accomplish this project in the timeframe. The schedule is also dependent on IRWD providing all the necessary information, scheduling required meetings and training.

Freezing Edits at IRWD

The schedule also identifies the time frame at which IRWD will be testing, training, and freezing edits prior to going live. We are proposing that IRWD can continue editing existing data until just before go-live date and freeze edits for about a month (8/20/2025 to 9/23/25). During this period, DCSE will reconcile the changes that happened in the existing data with the Utility Network Data on production. From 9/23/2025, the Go Live Date for production, it is anticipated that IRWD will work on the production environment with the Utility Networks.

GANTT Chart

Figure 16 on following page has a GANTT chart shows the project schedule with milestones identified for each task. The project schedule will be discussed during the project initiation stage and confirmed with IRWD. The GANTT Chart will be used to track the progress of the project.



42

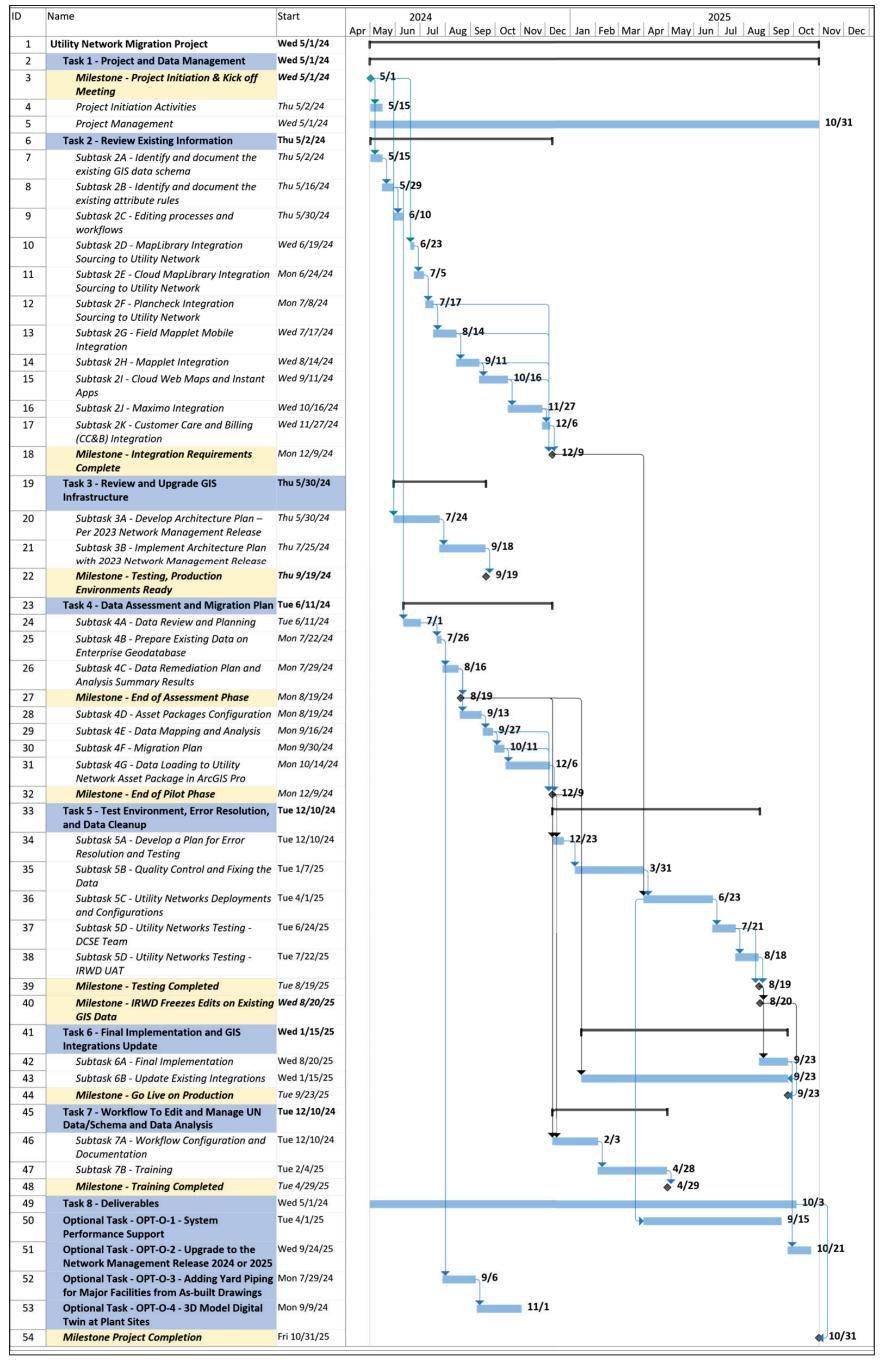


Figure 16 - Proposed Project Schedule with Milestones



Irvine Ranch Water District Budget Proposal

B.1. BUDGET FOR REQUIRED TASKS

Please see below the table with the budget for required tasks:

Table 2 - Cost Table for Required Tasks

Task #	Task Name	Principal / Project Manager \$210/Hr.	Assist. PM \$170/ Hr.	Utility Network Lead \$185/Hr.	Sr. GIS Analyst \$170/ Hr.	Supervising GIS Analyst \$170/ Hr.	Implement. & Support Specialist \$155/ Hr.	Software Engineer / GIS Dev. \$170/ Hr.	GIS Analyst \$140/Hr.	DCSE India GIS Tech \$20/ Hr.	Esri Professional Services Cost*	Total Labor Hours **	Cost
1	Project and Data Management	60	120	16		40		8				244	\$44,120
2	Review Existing Information	0	0	62	54	16	0	440	40	80		692	\$105,370
2A	Identify and document the existing GIS data schema			4	4	4			16	40		68	\$5,140
2B	Identify and document the existing attribute rules			4	4	4			8	40		60	\$4,020
2C	Editing processes and workflows			8		8			16			32	\$5,080
2D	MapLibrary Integration Sourcing to Utility Network			2	2			8				12	\$2,070
2E	Cloud MapLibrary Integration Sourcing to Utility Network			2	2			40				44	\$7,510
2F	Plancheck Integration Sourcing to Utility Network			2	2			8				12	\$2,070
2G	Field Mapplet Mobile Integration			8	8			100				116	\$19,840
2H	Mapplet Integration			2	2			60				64	\$10,910
21	Cloud Web Maps and Instant Apps			12	12			80				104	\$17,860
2J	Maximo Integration			12	12			120				144	\$24,660
2K	Customer Care and Billing (CC&B) Integration			6	6			24				36	\$6,210
3	Review and Upgrade GIS Infrastructure	8	2	44	40	40	40	16	0	0	\$ 77,000	190	\$109,680
<i>3A</i>	Develop Architecture Plan – Per 2023 Network Management Release Plan - System Architecture Design	4	2	4							\$ 77,000	10	\$78,920
3В	Implement Architecture Plan with 2023 Network Management Release Plan	4		40	40	40	40	16				180	\$30,760



Utility Network Migration

Irvine Ranch Water District Budget Proposal

Task #	Task Name	Principal / Project Manager \$210/Hr.	Assist. PM \$170/ Hr.	Utility Network Lead \$185/Hr.	Sr. GIS Analyst \$170/ Hr.	Supervising GIS Analyst \$170/ Hr.	Implement. & Support Specialist \$155/ Hr.	Software Engineer / GIS Dev. \$170/ Hr.	GIS Analyst \$140/Hr.	DCSE India GIS Tech \$20/ Hr.	Esri Professional Services Cost*	Total Labor Hours **	Cost
4	Data Assessment and Migration Plan	10	2	104	78	88	0	0	200	620	\$ 21,000	654	\$111,300
4A	Data Review and Planning	2		16	16	16			40	120		210	\$16,820
4B	Prepare Existing Data on Enterprise Geodatabase			4	12							16	\$2,780
4C	Data Remediation Plan and Analysis Summary Results			16	6	16			24	80		142	\$11,660
4D	Asset Packages Configuration	2		16	16	16			16	120		186	\$13,460
4E	Data Mapping and Analysis			4	12				24	60		100	\$7,340
4F	Migration Plan	2		8		16			16	40	\$ 21,000	82	\$28,660
4G	Data Loading to Utility Network Asset Package in ArcGIS Pro	4	2	40	16	24			80	200		366	\$30,580
5	Test Environment, Error Resolution, and Data Cleanup	10	0	96	56	72	0	56	184	1,080		1,554	\$98,500
5A	Develop a Plan for Error Resolution and Testing	2		24	8	16		24	24	40		138	\$17,180
5B	Quality Control and Fixing the Data			16	16	24			40	600		696	\$27,360
5C	Utility Networks Deployments and Configurations	4		40	16	16		24	80	400		580	\$36,960
5D	Utility Networks Testing	4		16	16	16		8	40	40		140	\$17,000
6	Final Implementation and GIS Integrations Update	12	8	26	18	16	0	68	16	0		164	\$28,270
6A	Final Implementation	4	4	16	8	16		8	16			72	\$12,160
6B	Update Existing Integrations	8	4	10	10			60				92	\$16,110
7	Workflow To Edit and Manage UN Data/Schema and Data Analysis	12	8	80	40	80	0	0	180	400		800	\$72,280
7A	Workflow Configuration and Documentation	4	4	40	24	40			120	200		432	\$40,600
7B	Training	8	4	40	16	40			60	200		368	\$31,680



Irvine Ranch Water District Budget Proposal

Task #	Task Name	Principal / Project Manager \$210/Hr.	Assist. PM \$170/ Hr.	Utility Network Lead \$185/Hr.	Sr. GIS Analyst \$170/ Hr.	Supervising GIS Analyst \$170/ Hr.		Software Engineer / GIS Dev. \$170/ Hr.	GIS Analyst \$140/Hr.	Tech	Esri Professional Services Cost*	Total Labor Hours **	Cost
8	Deliverables	8	8	16		40			40			112	\$18,400
	Total	120	148	444	286	392	40	588	660	2,180	\$ 98,000	4,410	\$587,920

^{*} Esri provides the services on fixed cost basis.

B.2. BUDGET FOR OPTIONAL TASKS

The DCSE Team has identified several optional tasks that can be beneficial for IRWD and add value to the Utility Network Implementation. Each task has been listed separately, with any applicable subtasks below.

Table 3 - Costing for Optional Tasks

Task#	Task Name	Utility Network Lead \$185/Hr.	Supervising GIS Analyst \$170/Hr.	GIS Analyst \$140/Hr.	DCSE India GIS Tech \$20/Hr.	Esri Professional Services Cost*	Labor Hours**	Cost
-0PT-0-1	System Performance Support	_				\$ 97,000		\$97,000
ОРТ-О-2	Upgrade to the Network Management Release 2024 or 2025	10	32	28	0		70	\$11,210
-OPT-O-3	Adding Yard Piping for Major Facilities from As-built Drawings		28	88	1,300		1,416	\$43,080
- OPT-O-3.1	Adding Yard Piping for Potable Water & Recycled Water Systems***	_	12	40	600		652	\$19,640
-OPT-O-3.2	Adding Yard Piping for Wastewater System***		16	48	700		764	\$23,440
	3D Model Digital Twin at 4 Plant Sites****		76	0	100		176	\$14,920

^{*} Esri provides the services on fixed cost basis.



^{**}Hours do not include Esri Professional Services hours. These services only have the associated cost.

^{**}Hours do not include Esri Professional Services hours. These services only have the associated cost.

^{***}Assuming 200 Plant as-built sheets for each system

^{*****}Contiguous outdoor areas larger than 8,000 sqft and indoor areas larger than 5,000 sqft need to be assessed on a case-by-case basis. Outdoor areas are not within restricted airspace. DCSE will assess each site before the data gathering phase.

April 22, 2024

Prepared by: D. Drake / J. Moeder

Submitted by: K. Burton

Approved by: Paul A. Cook

ACTION CALENDAR

DISTRICT-WIDE EMERGENCY GENERATOR DIESEL FUEL STORAGE BUDGET INCREASE, VARIANCE, AND CONSTRUCTION AWARD

SUMMARY:

The District-Wide Emergency Generator Diesel Fuel Storage project will increase the diesel fuel storage at emergency generators serving four domestic water pump stations and five sewage lift stations to provide 72 hours of operation. The existing emergency generators at two of these domestic water pump stations and five sewage lift stations will be replaced with new generators to accommodate 72 hours of diesel fuel storage. Staff recommends that the Board:

- Authorize a budget increase in the amount of \$1,327,200, from \$2,567,800 to \$3,895,000, for Project 11536, and in the amount of \$582,200, from \$1,995,800 to \$2,578,000, for Project 11537;
- Authorize the General Manager to execute Variance No. 3 in the amount of \$232,970 with Psomas for additional design services and construction support services; and
- Authorize the General Manager to execute a construction contract with SS Mechanical Corporation in the amount of \$2,996,135 for the District-Wide Emergency Generator Diesel Fuel Storage project.

BACKGROUND:

IRWD operates many of its facilities with emergency generators located on-site to provide electric power in the event of a power outage. These generators generally have enough fuel to power each facility for 24 hours. IRWD has undertaken a project to increase diesel fuel storage at many of its critical water pump stations and sewage lift stations to provide 72 hours of emergency power supply from on-site generators.

Originally, 18 domestic water pump stations and sewage lift stations were included in the scope of work. Psomas and staff completed a comprehensive evaluation of the generator sites and determined that five of the sites should remain as-is and be removed from the project due to the minimal benefit for additional incremental fuel storage compared to the overall cost of the improvements. Four additional sites were removed from this project as they will be completed under separate projects due to other planned construction at the sites or due to the complexity of the improvements. The four removed sites are Santiago Hills Zone 5-8 Pump Station, Baker Water Treatment Plant, Michelson Water Recycling Plant/Operations Center, and Zone A to Rattlesnake Reservoir Pump Station.

A total of nine sites are included in this project, including four domestic water pump stations and five sewer lift stations. The project locations and description of generator and storage improvements are described in the following table.

Action Calendar: District-Wide Emergency Generator Diesel Fuel Storage Project Budget

Increase, Variance, and Construction Award

April 22, 2024

Page 2

Replace Generator and Add Fuel Storage	Add Fuel Storage Only for Existing Generators
1. Cabinland Pump Station	1. Lake Forest Zone 5-6 West (2-3 West) Pump Station
2. Foothill Zone 4-6 Pump Station	2. Portola Zone 8-9 Pump Station
3. Cañada Lift Station	
4. Coastal Ridge Lift Station	
5. Coyote Canyon Lift Station	
6. Newport Coast Lift Station	
7. University Lift Station	

A location map of the nine project sites is shown in Exhibit "A".

Variance No. 3:

Psomas submitted Variance No. 3 that includes additional tasks that were required to complete the design and construction phase services. The additional design phase tasks include additional effort to procure the Orange County Fire Authority and City of Newport Beach Fire Department permits, support with pre-procuring the generators, and replacing the belly tank on the generator at Portola Zone 6-8 Pump Station to eliminate the need for mechanical pumps that would transfer fuel from an auxiliary tank to the main tank. The construction phase services, which is the majority of the variance request, includes meetings, review of submittals and requests for information, plan revisions, and record drawings.

The total cost of Variance No. 3 is \$232,970 and is shown in Exhibit "B". Staff negotiated the final variance amount with Psomas and believes the variance is reasonable for the additional requested work and construction phases services.

Construction Bid:

The project was advertised to a select list of 20 contractors on February 1, 2024. The bid opening occurred on March 12, 2024, with three bids received, summarized below:

Bidder	Bid Amount
SS Mechanical Construction Corp.	\$2,996,135
Schuler Constructors	\$3,427,790
Pacific Hydrotech Corp	\$3,648,500
Engineer's Estimate	\$2,315,250

SS Mechanical Construction Corp. was the lowest responsive bidder with a bid of \$2,996,135. SS Mechanical's bid results are shown in Exhibit "C". All bids were higher than the engineer's estimate of \$2,315,250. The discrepancy between the bids and the engineer's estimate can be attributed to higher construction costs in the current market for labor and materials. SS Mechanical has completed many IRWD construction projects and is well-qualified to construct this project. Staff recommends the Board authorize the General Manager to award a construction contract to SS Mechanical in the amount of \$2,996,135.

Action Calendar: District-Wide Emergency Generator Diesel Fuel Storage Project Budget

Increase, Variance, and Construction Award

April 22, 2024

Page 3

Material Sole Source:

Certain materials are routinely sole sourced on IRWD projects in order to match other products in use on a particular public improvement or in order to obtain a necessary item that is only available from one source. While most sole sources items are individually under \$35,000 and only require a single bid per the District's procurement policy, there are occasionally items that are of higher value. On this project, there are no sole sourced items exceeding \$35,000 in value.

FISCAL IMPACTS:

Staff requests budget increases to Projects 11536 (Domestic Water) and 11537 (Sewer) as shown in the table below. The budget adjustment includes additional design costs and higher construction costs. The spilt between the two domestic water and sewer project numbers is based on the project construction costs for the domestic water pump stations and sewer lift stations.

Project	Current	Addition	Total
No.	Budget	<reduction></reduction>	Budget
11536	\$2,567,800	\$1,327,200	\$3,895,000
11537	\$1,995,800	\$582,200	\$2,578,000
Total	\$4,563,600	\$1,909,400	\$6,473,000

ENVIRONMENTAL COMPLIANCE:

The effects of the proposed project are Categorically Exempt from the requirements to prepare additional environmental documentation per California Environmental Quality Act (CEQA) Guidelines, Section 15301, Class 1 (Existing Facilities) and CEQA Guidelines, Section 15302, Class 2 (Replacement or Reconstruction). The Class 1 Exemption provides for the operation, repair, maintenance, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of use beyond that existing at the time of the lead agency's determination. The Class 2 Exemption provides for replacement of existing structures and facilities where the new structure will be located on the same site as the structure replaced and will have substantially the same purpose. A Notice of Exemption was filed with the Orange County Clerk Recorder on December 6, 2022.

COMMITTEE STATUS:

The variance was reviewed by the Engineering and Operations Committee on April 16, 2024. Construction awards are not routinely reviewed by a Committee prior to submittal to the Board.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE A BUDGET INCREASE IN THE AMOUNT OF \$1,327,200, FROM \$2,567,800 TO \$3,895,000, FOR PROJECT 11536 AND IN THE AMOUNT OF \$582,200, FROM \$1,995,800 TO \$2,578,000, FOR PROJECT 11537;

Action Calendar: District-Wide Emergency Generator Diesel Fuel Storage Project Budget Increase, Variance, and Construction Award April 22, 2024

Page 4

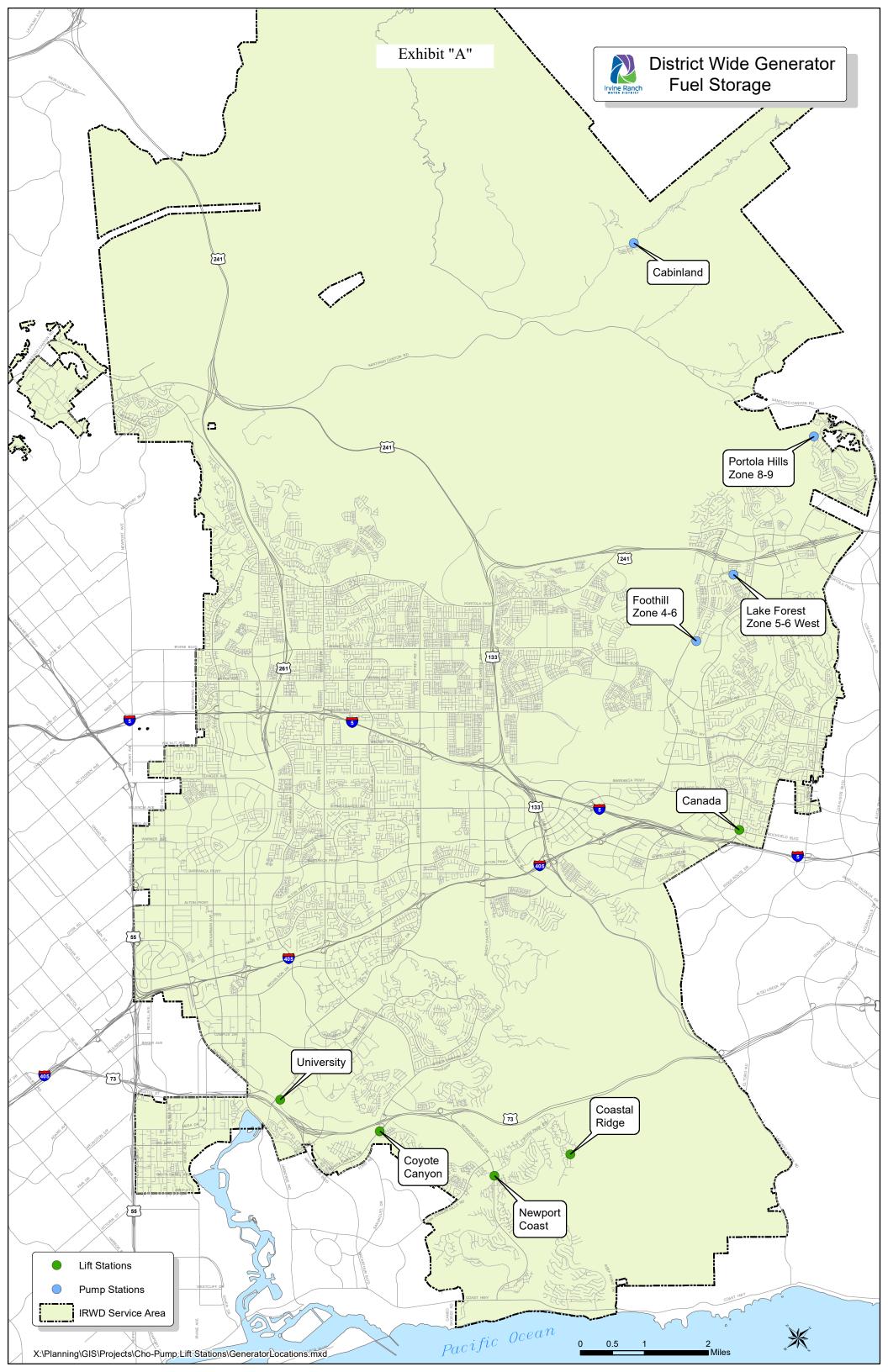
AUTHORIZE THE GENERAL MANAGER TO EXECUTE VARIANCE NO. 3 WITH PSOMAS IN THE AMOUNT OF \$232,970; AND AUTHORIZE THE GENERAL MANAGER TO EXECUTE A CONSTRUCTION CONTRACT WITH SS MECHANICAL CONSTRUCTION CORPORATION IN THE AMOUNT OF \$2,996,135, FOR THE DISTRICT-WIDE EMERGENCY GENERATOR DIESEL FUEL STORAGE, PROJECTS 11536 AND 11537.

LIST OF EXHIBITS:

Exhibit "A" - Location Map

Exhibit "B" – Variance No. 3 with Psomas

Exhibit "C" - Bid Results



Note: This page is intentionally left blank.

Exhibit "B" IRVINE RANCH WATER DISTRICT PROFESSIONAL SERVICES VARIANCE

	e: District-Wide Emerge	ency Generator Die			4 6 404		
Project No.:	11536 and 11537 rder No.: 625903			ate: <u>Mar</u> ariance No.	ch 6, 2024		
Originator:		ENGINEER/CONS			ther (Expla	in)	
	of Variance (attach any besign phase services. Please refe						
Engineering	g & Management Cost Imp	pact:					
	Classification	Manhours	Billing Rate	Labor \$	Direct Costs	Subcon.	Total \$
Engineerin	ng	-	-	153,510	8,400	71,060	232,970
(Reference	e attached fee breakdown)						
Schedule In	npact:					Total	232,970
Task No.	Task Description	Original Schedule		Schedul Varianc		Nev Sched	
Required A	pproval Determination:						
Total Original Previous Variation Total Sum New Continuous Percentage	inal Contract Variances \$182,090	\$428,713 \$415,060 \$843,773 _97_%	\$75, [] Exector or education	ctor: Cumulative 000. cutive Director: qual to \$125,000 eral Manager: Cult to \$200,000.	Cumulative of the Cumulative to	total of Varianc	es less than
M. Salcedo Project Eng M. Salcedo		MAS pany Name 03/11/2024 Date 03/11/2024 Date Date	<u>Kew</u> Depar	NE RANCH V in L Bur tment Director al Manager/B	ton or		8/24

IRVINE RANCH WATER DISTRICT

PROFESSIONAL SERVICES VARIANCE REGISTER

Project Title: <u>Γ</u>	District-Wide Emergency Ge	nerator Diesel I	Fuel Storage	
Project No.: 1	1536 and 11537 Project	Manager: Mai	ira Salcedo	
Variance		Dat		Variance
No.	Description	Initiated	Approved	Amount
1	Revise Design Engineering Scope	01/17/2022	1/21/2022	\$145,260
2	Revise Design Engineering Scope	04/19/2023	5/04/2023	\$36,830
3	Revise Design Engineering Scope and Add Construction Support	03/11/2024		\$232,970

March 11, 2024

Harry Cho, PE Irvine Ranch Water District 15600 Sand Canyon Avenue Irvine, CA 92618

Subject: District-Wide Emergency Generator Diesel Fuel Storage

Request for Professional Services Variance No. 3

Dear Harry:

Pursuant to our discussions, this proposal summarizes the additional engineering services provided for the District-Wide Emergency Generator Diesel Fuel Storage Project. Modifications to the plans were required based on plan check comments from OCFA, City of Newport Beach, as well as District comments. Additional permitting fees required by the above agencies are also included.

A general description of additional work is summarized as follows:

1. Response to OCFA, Newport Beach Fire Department Permitting Comments

Psomas' original scope of work for $Task\ 2.G - Permitting$ included estimated labor costs for permit processing with OCFA in the amount of \$8,340. After initiation of permit applications with OCFA and the City of Newport Beach Fire Department, OCFA and the City of Newport Beach Fire Department required some of the sites be processed through the City, in lieu of directly through fire departments, triggering additional coordination.

Our estimated fee for labor costs for administration, coordination and processing to complete permit processing for this project is \$17,430, including efforts by Mullen & Associates.

2. Permitting Fees and Direct Costs

To date, Psomas has expended \$11,250 on direct costs to OCFA and City of Newport Beach Fire Department, including permit application fees, reproduction costs and mileage. Our original proposal had a budgetary number of \$3,000, so an additional amount of \$8,250 is requested. Permit fees paid on behalf of IRWD are summarized in the table below:

3. Address IRWD Comments on 100% Submittal

Psomas responded to IRWD comments provided in the 100% and Final plan submittals, some of which are not in our scope of work. While many of the comments provided by IRWD are considered typical and are not considered out of scope, some comments involved changes in the design previously submitted. A brief summary of the out-of-scope comments follows:

A. Portola Zone 8-9 PS: The original PDR proposed a transfer fuel pump; during design, IRWD requested the removal of the transfer pump to reduce maintenance costs. Instead, the existing aboveground belly tank was replaced with a larger belly tank also reducing the construction

5 Hutton Centre Drive Suite 300 Santa Ana, CA 92707

Tel 714.751.7373 Fax 714.545.8883 www.psomas.com Harry Cho, PE Irvine Ranch Water District Page 2 of 3

footprint. In addition, the existing concrete pad was modified to provide adequate maintenance personal with access to the generator panels doors for the increased belly tank height.

- B. Portola Zone 6-8 PS: This site required multiple design revisions in the short window between the 100% submittal and Final Submittal. Initially the proposed transfer fuel pump was removed and replaced with an upsized sub-base fuel storage tank. Then, following a site visit and coordination with Cummins it was determined the existing enclosure also needed to be replaced to accommodate the proposed improvements adding time to procure the generator and belly tank. The design team was also notified the OCFA was requiring minimum property line/building clearances be met from the new belly tank and enclosure as well as a 25-foot brush clearance setback requirement, which could not be met. Considering the 25-foot setback could not be met and the cost for the enclosure, which was nearly the cost of a new generator and additional permitting requirements, IRWD ultimately decided to remove this site from the project. Psomas revised the construction documents to various levels at each decision step and ultimately removed the site from the contract documents.
- C. University Lift Station: Upon review of the approved shop drawing submittals, the project team determined the modifying the existing concrete pad to provide a raised curb to panel access would better serve the project in lieu of the proposed raised platform. The concrete modifications on both sides of the generator required relocating the generator/sub-base tank to provide a 3-foot minimum clearance between the concrete pad and wall.
- D. Psomas provided additional pre-procurement support and coordination for the generators which included synthesizing the approved shop drawing submittals and the design documents, identifying items to be provided by the contractor vs. the supplier, and updating the Project Manual to reflect the IRWD approved generator submittals.

Our estimated fee to address all additional comments on the plans and specs is \$54,740, including efforts by Mullen & Associates and Arcon Structural Engineers. This fee includes additional efforts by Arcon Structural Engineers and Mullen & Associates. Due to schedule being delayed, we have also included additional fees for management and administrative costs.

4. Construction Support

Pursuant to our discussions and per IRWD's request, construction phase services have been added to the project scope. A general description of additional work is summarized as follows:

- A. Project management for 20 months
- B. Project teleconference meetings 8 meetings for 2 hours each
- C. 15 RFI responses
- D. 30 submittal reviews
- E. Plan revisions 40 hours
- F. Site visits 6 visits for 2 hours each
- G. Record drawings. It is being assumed up to one update will be required to complete the record drawings and all submittals will be in digital format.
- H. Energy Control Procedure (ECP), prepared by Mullen and Associates 1 per site (9 total). It is being assumed up to one update will be required to complete the ECP and all submittals will be in digital format.
- I. Provide \$15,000 for additional services, as needed.

Our estimated fee for labor costs for Construction Support for this project is \$148,110, including efforts by Mullen & Associates and Arcon Structural Engineers.

Harry Cho, PE Irvine Ranch Water District Page 3 of 3

ESTIMATED HOURS AND FEE

We propose to complete this additional work for \$232,970 as shown in the attached Fee Summary Table. If you have any questions, please do not hesitate to call.

Very truly yours,

PSOMAS

Maira Salcedo, PE Senior Project Manager

Attachments:

Variance Form Fee Summary Table

IRVINE RANCH WATER DISTRICT

Additional Engineering Design Services for the District Wide Generator Fuel Storage Project

PSOMAS - FEE SCHEDULE - VARIANCE NO. 3

							Work Hours							Sub	Sub		
		Q	A/QC		PM		PE		PD	A	dmin			Electrical	Structural		
	Scope of Work Tasks		\$270		\$255		\$195		\$150		\$120	Total Hours	Labor Cost			Direct Costs	Total Fee
		Wk-Hrs	Amount	Wk-Hrs	Amount	Wk-Hrs	Amount	Wk-Hrs	Amount	Wk-Hrs	Amount			Amount	Amount		
SCOPE	OF WORK TASKS - VARIANCE NO. 3					•	'		'								
Task 1	- Project Management																
	Project Status Reports	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -
	Meetings/Coordination	0	\$ -	4	\$ 1,020	12	\$ 2,340	0	\$ -	0	\$ -	16	\$ 3,360	\$ -	\$ -	\$ -	\$ 3,360
	Quality Control/Quality Assurance	4	\$ 1,080	0	\$ -	0	\$ -	0	\$ -	0	\$ -	4	\$ 1,080	\$ -	\$ -	\$ -	\$ 1,080
	Sub-total Task 1 - Project Management	4	\$ 1,080	4	\$ 1,020	12	\$ 2,340	0	\$ -	0	\$ -	20	\$ 4,440	\$ -	\$ -	\$ -	\$ 4,440
Task 2	A - Permitting																
	Address OCFA and City of Newport Beach Fire Dept Permitting Plan Check Comments	0	\$ -	6	\$ 1,530	20	\$ 3,900	40	\$ 6,000	50	\$ 6,000	116	\$ 17,430	\$ -	\$ -	\$ -	\$ 17,430
	Sub-total Task 2A - Permitting	0	\$0	6	\$1,530	20	\$3,900	40	\$6,000	50	\$6,000	116	\$17,430	\$0	\$0	\$0	\$ 17,430
Task 2I	B - Permitting Fees																
	Additional Permit Fees - Direct Costs Only	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ 8,250	\$ 8,250
Task 3	- Final Design																
	Address IRWD Comments at 100% Submittal - Additional Design Effort	1	\$ 270	22	\$ 5,610	56	\$ 10,920	110	\$ 16,500	0	\$ -	189	\$ 33,300	\$ 13,000	\$ 8,440	\$ -	\$ 54,740
	Sub-total Task 3 - Final Design	1	\$270	22	\$5,610	56	\$10,920	110	\$16,500	0	\$0	189	\$33,300	\$13,000	\$8,440	\$0	\$ 54,740
Task 4	- Construction Support																
	Project Management	0	\$ -	40	\$ 10,200	20	\$ 3,900	0	\$ -	8	\$ 960	68	\$ 15,060	\$ -	\$ -	\$ -	\$ 15,060
	Project Meetings	0	\$ -	24	\$ 6,120	12	\$ 2,340	0	\$ -	0	\$ -	36	\$ 8,460	\$ 2,400	\$ 440	\$ -	\$ 11,300
	Request for Information	0	\$ -	16	\$ 4,080	40	\$ 7,800	0	\$ -	0	\$ -	56	\$ 11,880	\$ 4,500	\$ 880	\$ -	\$ 17,260
	Submittal Reviews	0	\$ -	20	\$ 5,100	90	\$ 17,550	0	\$ -	0	\$ -	110	\$ 22,650	\$ 6,000	\$ 1,320	\$ -	\$ 29,970
	Plan Revisions	0	\$ -	0	\$ -	8	\$ 1,560	32	\$ 4,800	0	\$ -	40	\$ 6,360	\$ 6,000	\$ 1,380	\$ -	\$ 13,740
	Site Visits	0	\$ -	18	\$ 4,590	6	\$ 1,170	0	\$ -	0	\$ -	24	\$ 5,760	\$ 2,700	\$ 880	\$ 150	\$ 9,490
	Record Drawings	0	\$ -	2	\$ 510	6	\$ 1,170	68	\$ 10,200	0	\$ -	76	\$ 11,880	\$ 6,740	\$ 1,380	\$ -	\$ 20,000
	Energy Control Procedure	0	\$ -	2	\$ 510	4	\$ 780	0	\$ -	0	\$ -	6	\$ 1,290	\$ 15,000	\$ -	\$ -	\$ 16,290
	Contingency	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ 15,000	\$ -	\$ -	\$ -	\$ 15,000
	Sub-total Task 4 - Construction Support	0	\$ -	122	\$ 31,110	186	\$ 36,270	100	\$ 15,000	8	\$ 960	416	\$ 98,340	\$ 43,340	\$ 6,280	\$ 150	\$ 148,110
	Total Estimated Work	5	\$1,350	154	\$39,270	274	\$53,430	250	\$37,500	58	\$6,960	741	\$153,510	\$56,340	\$14,720	\$ 8,400	\$ 232,970

Legend

In-House Staff and Billing Rate

QA/QC - QA/QC Manager (\$270/hr)

PM - Project Manager (\$245/hr)

PE - Project Engineer (\$190/hr)

PD - Project Designer (\$145/hr)

Admin - Administrative Assistant (\$105/hr)

Subconsultants

Electrical Engineering - Mullen and Associates Structural Engineering - Arcon Structural Engineers

Exhibit "C"

Bid Results

Bidder Details

Vendor Name SS Mechanical Construction Corp.

Address 26561 Jacinto Drive

Mission Viejo, California 92692

United States

Respondee John Whelan
Respondee Title President
Phone 714-847-1317

Email john@ssmechanical.com

Vendor Type CADIR License # 1027264 CADIR 1000049566

Bid Detail

Bid Format Electronic

Submitted 03/12/2024 1:24 PM (PDT)

Delivery Method Bid Responsive

Bid Status Submitted Confirmation # 368165

Respondee Comment

Buyer Comment

Attachments

File TitleFile NameFile TypeBID DOCS COMPLETED.pdfBID DOCS COMPLETED.pdfBid Form

Subcontractors

Showing 4 Subcontractors

Name & Address	Desc	License Num	CADIR	Amount	Туре
Beach Paving, Inc PO Box 10442 Costa Mesa, California 92627	Paving	597202	1000009033	\$50,203.00	CADIR
PARADA PAINTING INC. 14281 PALISADES DRIVE POWAY, California 92064	Painting and Coating	742112	1000004724	\$30,324.00	CADIR
R.R. Leonard Co. 10910 Shoemaker Ave. Santa Fe Springs, California 90670	Rebar	250779	1000008895	\$19,040.00	
Southern Contracting Company 559 N. Twin Oaks Valley Road San Marcos, California 92069	Electrical	222252	1000002172	\$986,700.00	CADIR

Line Items

Discount Terms No Discount

Item #	Item Code	Type	Item Description	UOM	QTY	Unit Price	Line Total	Response	Comment
BASE BI	DITEMS						\$2,996,135.00		
1			Mobilization/Demobilization (Max 4% of Base Bid)	LS	1	\$120,000.00	\$120,000.00	Yes	
2			Foothill Zone 4-6 Pump Station Improvements for the lump sum price of:	LS	1	\$1,272,245.00	\$1,272,245.00	Yes	
3			Portola Hills Zone 8-9 Pump Station Improvements for the lump sum price of:	LS	1	\$270,990.00	\$270,990.00	Yes	
4			Lake Forest Zone 5-6 West Pump Station Improvements for the lump sum price of:	LS	1	\$215,715.00	\$215,715.00	Yes	
5			Cabinland Pump Station Improvements for the lump sum price of:	LS	1	\$148,358.00	\$148,358.00	Yes	
6			University Lift Station Improvements for the lump sum price of:	LS	1	\$126,996.00	\$126,996.00	Yes	
7			Newport Coast Lift Station Improvements for the lump sum price of:	LS	1	\$241,851.00	\$241,851.00	Yes	
8			Coyote Canyon Lift Station Improvements for the lump sum price of:	LS	1	\$149,745.00	\$149,745.00	Yes	
9			Canada Lift Station Improvements for the lump sum price of:	LS	1	\$182,915.00	\$182,915.00	Yes	
10			Coastal Ridge Lift Station Improvements for the lump sum price of:	LS	1	\$232,055.00	\$232,055.00	Yes	
11			Trench Safety Measures	LS	1	\$11,750.00	\$11,750.00	Yes	
12			Startup, Testing, and Training	LS	1	\$16,750.00	\$16,750.00	Yes	
13			Operation and Maintenance Manuals	LS	1	\$1,765.00	\$1,765.00	Yes	
14			Final Record Drawings	LS	1	\$5,000.00	\$5,000.00	Yes	
ADDITIV	E AND DEDUC	TIVE BIL	DITEMS				\$0.00		
15			ADDITION (+) or DEDUCTION (-)	LS	1	\$0.00	\$0.00	Yes	

Line Item Subtotals

Section Title	Line Total
BASE BID ITEMS	\$2,996,135.00
ADDITIVE AND DEDUCTIVE BID ITEMS	\$0.00
Grand Total	\$2,996,135.00