CLEARVIEW WATER SUPPLY AGENCY

MANAGEMENT COMMITTEE MEETING
Wednesday, April 15, 2026
2:30 p.m.
AGENDA

1. **REPORTS**

   A. Maintenance and Operations Report
   Tyler Gardner, M&O Superintendent

   B. Engineering and Development Report
   Paul Richart, Engineering & Development Director

   C. Financial Report
   Alexis Dickie, Finance Manager

2. **ADJOURNMENT**

CLEARVIEW WATER SUPPLY AGENCY

BOARD OF DIRECTORS MEETING
Wednesday, April 15, 2026
3:00 p.m.
AGENDA

1. **CALL TO ORDER**
2. **ROLL CALL**
3. **PUBLIC COMMENT**
4. **ADDITIONS TO OR DELETIONS FROM THE AGENDA**
5. **CONSENT AGENDA**
   - **A. Minutes**
     - I. February 18, 2026
   - **B. Disbursements –** In the amount of **$723,975.78**
   - **C. Vouchers –** In the amount of **$46,338.94**
6. **NEW BUSINESS – None**
7. **UNFINISHED BUSINESS - None**
8. **REPORTS**
   - **A.** Maintenance and Operations Report
     Tyler Gardner, M&O Superintendent
   - **B.** Financial Report
     Alexis Dickie, Finance Manager
   - **C.** Engineering & Development Report
     Paul Richart, Engineering & Development Director
9. **NEXT MEETING DATE**
   May 20, 2026, 2026
10. **ADJOURNMENT**

Clearview Water Supply Agency (CWSA)

Date: February 18, 2026

CWSA BOARD MEETING MINUTES

Attendees:

- John Warner, CWSA Board
- Dean Lotz, CWSA Board President
- Warren Schott, CWSA Board - Absent
- John McClellan, AWWD
- Mike Johnson, CVWD
- Curt Brees, SLWD
- Paul Richart, AWWD
- Ashley Rindero, AWWD
- Tyler Gardner, AWWD
- Masood Ul-Haque
- Caryn Saban, AWWD
- Alexis Dickie, AWWD
- Tyan Schreck, AWWD
- Seth Richards, AWWD
-

1. CALL TO ORDER

The meeting was called to order at 3:00 pm.

2. ROLL CALL

Roll call was taken. Board Members Warner and Lotz were present. Board Member Schott was absent.

3. PUBLIC COMMENT

There were no public comments.

4. ADDITIONS TO OR DELETIONS FROM THE AGENDA

There were no additions to or deletions from the agenda.

5. CONSENT AGENDA

A. Minutes

I. December 17, 2025

B. Disbursements – In the amount of **$54,441.48**

C. Vouchers – In the amount of **$40,944.92**

MOTION: CWSA Board Member Warner moved to approve the consent agenda as presented. The motion was seconded by Board Member Lotz. The motion passed 2-0.

6. NEW BUSINESS – None

7. UNFINISHED BUSINESS – None

8. REPORTS

A. Maintenance and Operations Report
Tyler Gardner, M&O Superintendent

Tyler Gardner provided a summary of the monthly Maintenance & Operations report. There were no emergency callouts. Staff performed general housekeeping and landscaping, standby for contractor boring in new line under Clearview Transmain (SLWD was on site), repaired fence and gutter from windstorm, inspected fire extinguishers, deep cleaned pipe gallery, safety equipment inspected, crane inspected, HVAC, exhaust fans, diesel fuel polisher was serviced, and pumps 1 & 2 were greased.

B. Financial Report
Alexis Dickie, Finance Manager

Alexis Dickie provided a summary of the December 2025 and January 2026 financial reports. She reviewed the Key Bank balances, LGIP balances, combined monetary asset balances, expenses, and water consumption. The water utilization by CWSA member districts during December 2025 was as follows: SLWSD 31.52%, CVWD 6.59%, AWWD 61.89%.

C. Engineering & Development Report
Paul Richart, Engineering & Development Director

Paul Richart provided a summary Engineering & Development Report. Kennedy Jenks continues the design work for the pump station. They are finalizing the 30% report. Staff is recommending the original design for the new medium-voltage generator which will take the station back to a single-voltage with a new transfer switch.

9. NEXT MEETING DATE

March 18, 2026

10. ADJOURNMENT

ALDERWOOD
WATER & WASTEWATER
DISTRICT

3626 - 156th Street SW • Lynnwood, WA 98087-5021 • 425-743-4605 • 425-742-4562 Fax • www.awwd.com

MEMORANDUM

To: The Board of Directors

Dean Lotz, President

Warren Schott, Board Member

John Warner, Board Member

From: Alexis Dickie, Finance Manager

Date: April 15, 2026

Subject: Disbursements authorized by the Alderwood Water & Wastewater District Finance Director

Amount: $723,975.78 AD

Pursuant to Clearview Water Supply's Agency's Resolution No. 01-2021, the Alderwood Water & Wastewater District's Finance Director is authorized to prepare vouchers, certify the claim and authorize the issuance of Agency checks, prior to acceptance and approval of the Board of Directors for such expenses as water, utilities, reimbursement of expenses and work orders submitted, and others deemed necessary for effective operations. The following disbursements are presented for your review and ratification.

SUMMARY AND AUTHORIZATION FORM FOR FEBRUARY AND OTHER DISBURSEMENTS

April 15, 2026 **February** **$723,975.78**

I, the undersigned, do hereby certify under penalty of perjury that the materials have been furnished, the services rendered as described herein and that each claim is a just, due and unpaid obligation , and that I am authorized and certify said claim.

Alexis Dickie

Digitally signed by Alexis Dickie
Date: 2026.04.13 06:49:43 -07'00'

Alexis Dickie, Finance Manager

Clearview Water Supply Agency

Signed this 13 **day of** April

Prepared by: *Seth Richards*

Allowed in the sum of: **$723,975.78**

ALDERWOOD WATER & WASTEWATER DISTRICT
3626 156TH ST. SW
LYNNWOOD WA 98037-2399

Alexis Dickie
Digitally signed by Alexis Dickie
Date: 2026.03.19 12:00:10 -07'00'

CERTIFICATION

State of Washington - County of Snohomish

I, the undersigned, do hearby certify under penalty of perjury that the materials have been furnished, the services rendered or the labor performed as described herein and that each claim is a just, due and unpaid obligation against Alderwood Water & Wastewater District, and that I am authorized and certify said claim.

As of the date 4/15/2026 , the Board of Commissioners, by a unanimous vote, does approve for payment Vouchers 2021-0168 thru 2021-0168 included in the listing and further described as follows:

Water Maintenance Fund:	$723,975.78
Sewer Maintenance Fund:	$0.00
Water Construction Fund:	$0.00
Sewer Construction Fund:	$0.00
TOTAL	$723,975.78

Subscribed on 4/15/2026 at Lynnwood, Washington

_____ Chairman, Commissioner

ALDERWOOD WATER & WASTEWATER DISTRICT

_____ Secretary, Commissioner

(For Department or Taxing District)

Ashley Rindero
2026.03.18 15:54:47 -07'00'
2025.001.20997

_____ Vice President, Commissioner

Approved & Authorized By Auditing Officer

_____ Commissioner

_____ Commissioner

VOUCHER NO.	CLAIMANT	PURPOSE	TOTAL VOUCHER AMOUNT	FUND 40 WATER MAINTENANCE	FUND 41 SEWER MAINTENANCE	FUND 49 WATER CONSTRUCTION	FUND 51 SEWER CONSTRUCTION
2021-0168	ALDERWOOD WATER & WASTEW	2026 FEB EXP		$723,975.78			
		Total	$723,975.78				

ALDERWOOD
WATER & WASTEWATER
DISTRICT

3626 156th St. S.W. Lynnwood, Washington 98087-5021 (425) 743-4605 Fax (425) 742-4562

TO:
Clearview Water Supply Agency
3626 156th St SW
Lynnwood, WA 98087

DATE: 2/28/2026

INVOICE: 11596

Description				Amount	CWSA Coding
Wholesale Water -12/1/26-1/2/26 adjusted bill with old rates			City of Everett	364,894.64	1-51-510-701
Wholesale Water -1/2/26-2/2/26 adjusted bill with old rates			City of Everett	303,193.59	1-51-510-701
Pump Station Power - 1/9/26-2/5/26 223714072		8114 64th St SE, Snohomish	Snoho Cnty PUD	21,744.12	1-51-515-101
Reservoir Power - 2.3.26-3.4.26 201441276		15830 73rd Ave SE, Snohomish	Snoho Cnty PUD	98.03	1-51-510-301
Postage	0 pieces of mail @	$0.74		-	1-51-539-802
Photocopies	0 photocopies @	$0.15		-	1-51-539-802

	Amount	GL Number
The Home depot 1/28/26	206.55	1-51-539-406
Ziply Fiber - CWSA Monthly Facility Access - 1/15/26-3/14/26	75.25	1-51-533-101
Ziply Fiber - Jan Service 1/28/26 to 2/27/26	1,181.14	1-51-533-101
Grainger 9/25/2025	181.16	1-51-539-208
Commericial Filter Sales and Service 10/16/25	282.04	1-51-539-208
Grainger 12.02.25	979.92	1-51-520-202
Bennett Law, PLLC 1.31.26	160.00	1-51-539-802
Verizon 864205786-00005 1.7.26-2.6.26	80.02	1-51-533-101
Verizon 864205786-00005 12.7.25-1.6.26	80.02	1-51-533-101
Elecsys International, LLC - Feb cell data services	26.52	1-51-539-614

Work Order	Work Order #	Date	Amount	GL Number
Work Order	MECH-372556	2/2/2026	415.41	1-51-539-210
Work Order	MECH-372446	2/2/2026	103.85	1-51-539-206
Work Order	MECH-372145	2/2/2026	103.85	1-51-539-210
Work Order	MECH-372146	2/2/2026	103.85	1-51-539-210
Work Order	MECH-372147	2/2/2026	103.85	1-51-539-210
Work Order	MECH-372148	2/2/2026	103.85	1-51-539-210
Work Order	MECH-372149	2/2/2026	103.85	1-51-539-210
Work Order	MECH-372140	2/3/2026	655.58	1-51-539-210
Work Order	WQ-372609	2/4/2026	202.83	1-51-539-408
Work Order	MECH-372699	2/6/2026	425.85	1-51-539-210
Work Order	MECH-372808	2/9/2026	425.85	1-51-539-210
Work Order	SCADA-368639	2/10/2026	14,200.35	1-51-539-409
Work Order	WQ-372862	2/11/2026	202.83	1-51-539-408
Work Order	ELEC-371533	2/11/2026	220.16	1-51-539-207
Work Order	MECH-372953	2/13/2026	415.41	1-51-539-210
Work Order	MECH-373255	2/17/2026	415.41	1-51-539-210
Work Order	MECH-372649	2/18/2026	103.85	1-51-539-208
Work Order	MECH-372369	2/18/2026	415.41	1-51-539-210
Work Order	MECH-372477	2/18/2026	415.41	1-51-539-210
Work Order	MECH-372519	2/18/2026	207.70	1-51-539-208
Work Order	MECH-372520	2/18/2026	207.70	1-51-539-208
Work Order	MECH-372652	2/18/2026	207.70	1-51-539-210
Work Order	MECH-372655	2/18/2026	415.41	1-51-539-210
Work Order	MECH-372544	2/18/2026	311.55	1-51-539-210
Work Order	WQ-373284	2/18/2026	202.83	1-51-539-408
Work Order	MECH-373420	2/20/2026	425.85	1-51-539-210
Work Order	MECH-373515	2/23/2026	415.41	1-51-539-210
Work Order	WQ-373608	2/25/2026	202.83	1-51-539-408
Work Order	ELEC-371521	2/26/2026	112.26	1-51-539-207
Work Order	ELEC-371522	2/26/2026	112.26	1-51-539-207
Work Order	ELEC-371519	2/26/2026	168.39	1-51-539-207
Work Order	ELEC-367374	2/26/2026	230.93	1-51-539-207
Work Order	ELEC-371527	2/26/2026	346.39	1-51-539-207
Work Order	ELEC-362817	2/26/2026	112.26	1-51-539-207
Work Order	ELEC-365671	2/26/2026	461.85	1-51-539-207
Work Order	ELEC-367386	2/26/2026	449.04	1-51-539-207
Work Order	ELEC-371520	2/26/2026	112.26	1-51-539-207
Work Order	ELEC-367387	2/26/2026	336.32	1-51-539-207
Work Order	ELEC-372469	2/26/2026	266.00	1-51-539-207
Work Order	ELEC-372473	2/26/2026	664.84	1-51-539-207
Work Order	ELEC-244653	2/26/2026	664.84	1-51-539-207
Work Order	BGEASE-372794	2/27/2026	775.90	1-51-539-206
Work Order	MECH-373704	2/27/2026	415.41	1-51-539-210
Work Order	SCADA-371616	2/19/2026	1,315.41	1-51-539-209

Admin and Finance Hours through: 02/28/26

Staff	Hours	Rate	Amount	GL Number
H. Culver	0.25	99.47	24.87	1-51-539-802
A. Dickie	6.00	109.64	657.84	1-51-539-802
S. Richards	5.75	81.20	466.90	1-51-539-802
A. Rindero	0.75	150.89	113.17	1-51-539-802
C. Saban	4.00	82.08	328.32	1-51-539-802
payroll accountant	0.00	73.06	-	1-51-539-802
T. Schreck	3.00	89.52	268.56	1-51-539-802
T. Shipley	0.25	63.82	15.96	1-51-539-802
D. Van Giesen	9.00	70.93	638.37	1-51-539-802

TOTAL DUE $ 723,975.78

Description	Amount	CWSA Coding

AWWD Coding:	
Purchased Water/Power	
1-00-466-500	689,832.35
1-00-184-400	-
1-00-466-500	-
Other Revenue	
1-00-474-600	30,792.78
1-00-184-400	3,350.65
1-00-184-300	
Total Invoice	**723,975.78**

Utilities & Reimbursables

Row Labels	Sum of Amount
1-51-533-101	1,416.43
1-51-539-406	206.55
1-51-539-208	463.20
1-51-520-202	979.92
1-51-539-614	26.52
1-51-539-802	160.00
Grand Total	**3,252.62**

Work Orders

Row Labels	Sum of Amount
1-51-539-206	879.75
1-51-539-208	519.25
1-51-539-210	6,294.91
1-51-539-408	811.32
1-51-539-409	14,200.35
1-51-539-207	4,257.80
1-51-539-209	1,315.41
Grand Total	**28,278.79**

AWWD Labor

Row Labels	Sum of Amount
1-51-539-802	2,513.99
Grand Total	**2,513.99**

Approved for Payment

General Manager

Date: 3/19/2026

ALDERWOOD WATER & WASTEWATER DISTRICT
3626 156TH ST. SW
LYNNWOOD WA 98037-2399

CERTIFICATION

State of Washington - County of Snohomish

I, the undersigned, do hearby certify under penalty of perjury that the materials have been furnished, the services rendered or the labor performed as described herein and that each claim is a just, due and unpaid obligation against Alderwood Water & Wastewater District, and that I am authorized and certify said claim.

As of the date 4/15/2026 , the Board of Commissioners, by a unanimous vote, does approve for payment Vouchers 2021-0170 thru 2021-0171 included in the listing and further described as follows:

Water Maintenance Fund:	$46,338.94
Sewer Maintenance Fund:	$0.00
Water Construction Fund:	$0.00
Sewer Construction Fund:	$0.00
TOTAL	$46,338.94

Subscribed on 4/15/2026 at Lynnwood, Washington

Chairman, Commissioner

ALDERWOOD WATER & WASTEWATER DISTRICT

(For Department or Taxing District)

Secretary, Commissioner

Heather Culver Digitally signed by Heather Culver
Date: 2026.04.10 14:10:51 -07'00'

Approved & Authorized By Auditing Officer

Vice President, Commissioner

Commissioner

Commissioner

VOUCHER NO.	CLAIMANT	PURPOSE		TOTAL VOUCHER AMOUNT	FUND 40 WATER MAINTENANCE	FUND 41 SEWER MAINTENANCE	FUND 49 WATER CONSTRUCTION	FUND 51 SEWER CONSTRUCTION
2021-0170	ALDERWOOD WATER & WASTEW				$42,215.34			
			Total	$42,215.34				
2021-0171	SNOHOMISH COUNTY TREASUR				$4,123.60			
			Total	$4,123.60				

ALDERWOOD
WATER & WASTEWATER
DISTRICT

3626 156th St. S.W. Lynnwood, Washington 98087-5021 (425) 743-4605 Fax (425) 742-4562

TO:
Clearview Water Supply Agency
3626 156th St SW
Lynnwood, WA 98087

DATE: 3/31/2026

INVOICE: 11605

	Description			Amount	CWSA Coding
Pump Station Power - 2/6/26-3/11/26 223714072		8114 64th St SE, Snohomish	Snoho Cnty PUD	30,498.19	1-51-515-101
Reservoir Power - 3.5.26-4.1.26 201441276				90.69	1-51-510-301
Postage	0 pieces of mail @	$0.74		-	1-51-539-802
Photocopies	0 photocopies @	$0.15		-	1-51-539-802

	Amount	GL Number
Ziply Fiber - CWSA Monthly Facility Access - 3.15.26 to 04.14.26	75.25	1-51-533-101
Ziply Fiber - 2.28.26 to 3.27.26 206/188-1877	1,181.14	1-51-533-101
Comcast 3.1.26 to 3.28.26 8498 31 009 0863247	174.39	1-51-533-101
Verizon 864205786-00005 2.7.26 to 3.6.26	80.02	1-51-533-101
Elecsys International, LLC - March cell data services	26.52	1-51-539-614
CBPacific- Tempered Networks renewal 12 mo	3,315.00	1-51-539-209

Work Order	Work Order #	Date	Amount	GL Number
Work Order	MECH-373907	3/2/2026	623.11	1-51-539-210
Work Order	MECH-374135	3/3/2026	207.70	1-51-539-206
Work Order	METER-373660	3/4/2026	465.54	1-51-539-210
Work Order	WQ-374128	3/4/2026	202.83	1-51-539-408
Work Order	MECH-374240	3/6/2026	425.85	1-51-539-210
Work Order	MECH-374097	3/9/2026	207.70	1-51-539-206
Work Order	MECH-374337	3/9/2026	415.41	1-51-539-210
Work Order	WQ-374440	3/11/2026	212.92	1-51-539-408
Work Order	MECH-374517	3/13/2026	415.41	1-51-539-210
Work Order	MECH-374613	3/16/2026	519.26	1-51-539-210
Work Order	WQ-374685	3/18/2026	212.92	1-51-539-408
Work Order	MECH-374764	3/20/2026	425.85	1-51-539-210
Work Order	MECH-374851	3/23/2026	415.41	1-51-539-210
Work Order	WQ-374904	3/25/2026	140.24	1-51-539-408
Work Order	MECH-375023	3/27/2026	282.41	1-51-539-210
Work Order	MECH-375123	3/30/2026	415.41	1-51-539-210

Admin and Finance Hours through: 03/31/26

Staff	Hours	Rate	Amount	GL Number
H. Culver	0.25	99.47	24.87	1-51-539-802
A. Dickie	3.25	109.64	356.33	1-51-539-802
S. Richards	0.50	81.20	40.60	1-51-539-802
Finance Director			-	1-51-539-802
C. Saban	0.25	82.08	20.52	1-51-539-802
T. Schreck	1.00	89.52	89.52	1-51-539-802
T. Shipley	0.25	63.82	15.96	1-51-539-802
D. Van Giesen	9.00	70.93	638.37	1-51-539-802

TOTAL DUE $ 42,215.34

Description	Amount	CWSA Coding

AWWD Coding:	
Purchased Water/Power	
1-00-466-500	30,498.19
1-00-184-400	-
1-00-466-500	-
Other Revenue	
1-00-474-600	6,774.14
1-00-184-400	4,943.01
1-00-184-300	
Total Invoice	**42,215.34**

Utilities & Reimbursables

Row Labels	Sum of Amount
1-51-533-101	1,510.80
1-51-539-614	26.52
1-51-539-209	3,315.00
Grand Total	**4,852.32**

Work Orders

Row Labels	Sum of Amount
1-51-539-206	415.4
1-51-539-210	4403.66
1-51-539-408	768.91
Grand Total	**5587.97**

AWWD Labor

Row Labels	Sum of Amount
1-51-539-802	1,186.17
Grand Total	**1,186.17**

ALDERWOOD WATER & WASTEWATER DISTRICT

Digitally signed by John McClellan
Date: 2026.04.10 14:07:31 -07'00'

Approved for Payment: Date:

General Manager

Date: April 15, 2026

Clearview Water Supply Agency
Pump Station Monthly Operations Report for February/March 2026

1. **Emergency Call Out Responses at the Pump Station**

    - No Callouts.

2. **Pump Station/Reservoir Site**

    - General housekeeping and landscaping.
    - Replaced Insertion control meter at the pump station.
    - AWWD plans to install 15' double opening gates on south side of reservoir property near AWWD meter for easement pipeline access.
    - High risk tree identified that needs to be removed on pump station site, cost is approximately $10-12K. Budgeted amount for the year is $27K. We are currently at $2,300 spent for the year in that G.L.

3. **Routine/Repair Maintenance**

    - We completed all the weekly reads and safety inspections to include the monthly fire extinguisher inspections. Mon/Fri.
    - Greased the check valves on all the pumps.
    - Generator was load bank tested and passed.
    - Pump room and generator room intake filters were all cleaned.
    - All suction and discharge valves were exercised on all pumps.
    - Annual oil samples were taken for the upper and lower bearing sets on all 5 pumps. -All have passed and are good for another year.
    - VFD's, transformer disconnect, and RTD's all had tests and PM's done.
    - Generator exhaust fan was greased and serviced.

4. **Average Set Point for Pumping Activity**

    - During February/March our flows ranged from 6.28-9.69 MGD.


POWER GENERATION
PACIFIC
POWER GROUP


PACIFICORP
Little Giant



Date: April 15, 2026

Clearview Water Supply Agency
Financial Report
February 2026 and March 2026

CWSA's balances as of **March 31, 2026**

- Key Bank: **$660,827.75** (see attached reconciliation and bank statement)
- Local Government Investment Pool (LGIP): **$740,499.31** (see attached statement)
  - The net earnings rate for the month was **3.7101%**
  - The net earnings for the month amounted to **$2,326.00**
- Combined monetary assets totaled: **$1,401,327.06**

Expenses for February and March 2026 totaled **$770,314.72**

February 2026 Disbursements in the amount of $723,975.78 (see attached disbursements).

- Wholesale water purchase of **$668,088.23** accounts for 92.3% of the month's total disbursements.
  - i. **AWWD and the City of Everett have not yet come to an agreement on the 2024-2025 or the 2025-2026 Water Rate.**
  - ii. **February 2026 disbursements included water purchases for January and February 2026 bills from the City of Everett**
- Power expenses payable to Snohomish County PUD of **$21,842.15** account for 3.0% of the month's total expenses.
- As of February 28, 2026, CWSA has spent **$764,920.70** or 6.78% of the $11,282,239.47 budgeted for the year.
- CWSA Water Consumption (in million gallons)

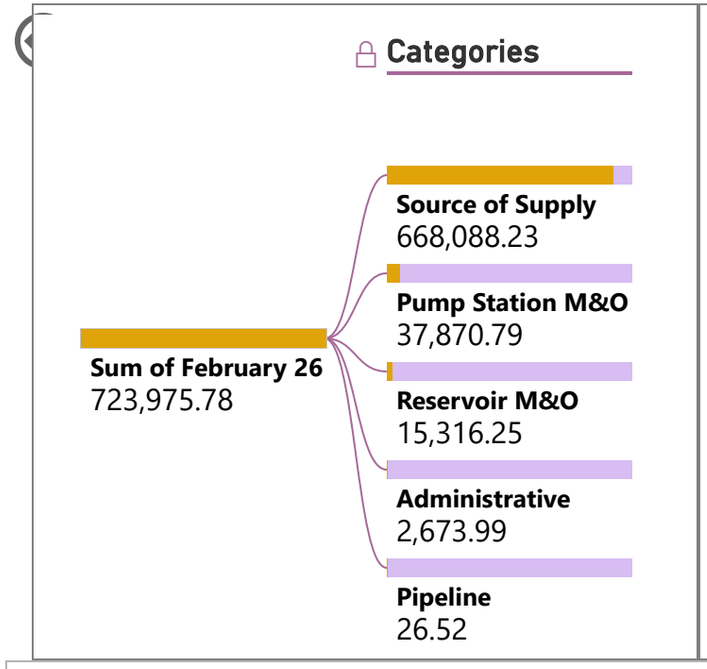
Feb 2026	Feb 2025	Variance	Jan-Feb 2026	Jan-Feb 2025	Variance
213.9	211.8	2.1	440.0	461.1	(21.1)
		1.0%			(4.6%)

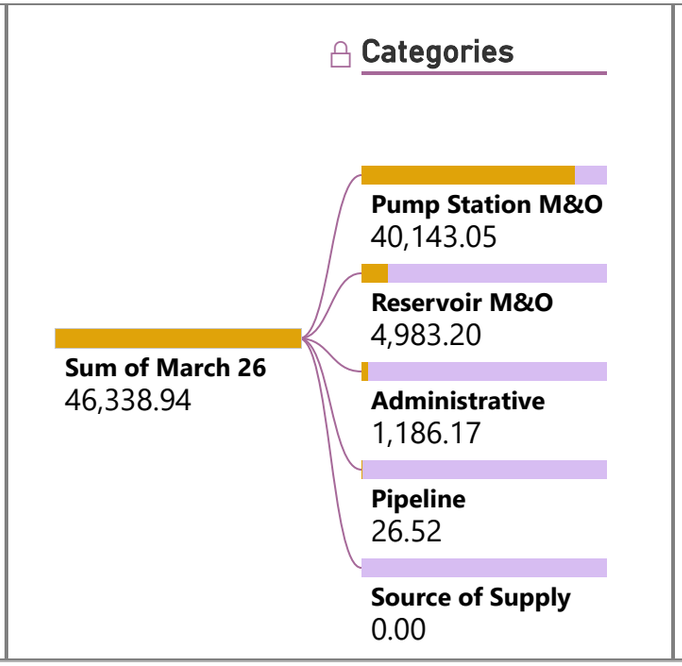
March 2026 Accounts Payable Voucher Packet for expenses incurred in the amount of $46,338.94 (see attached vouchers).

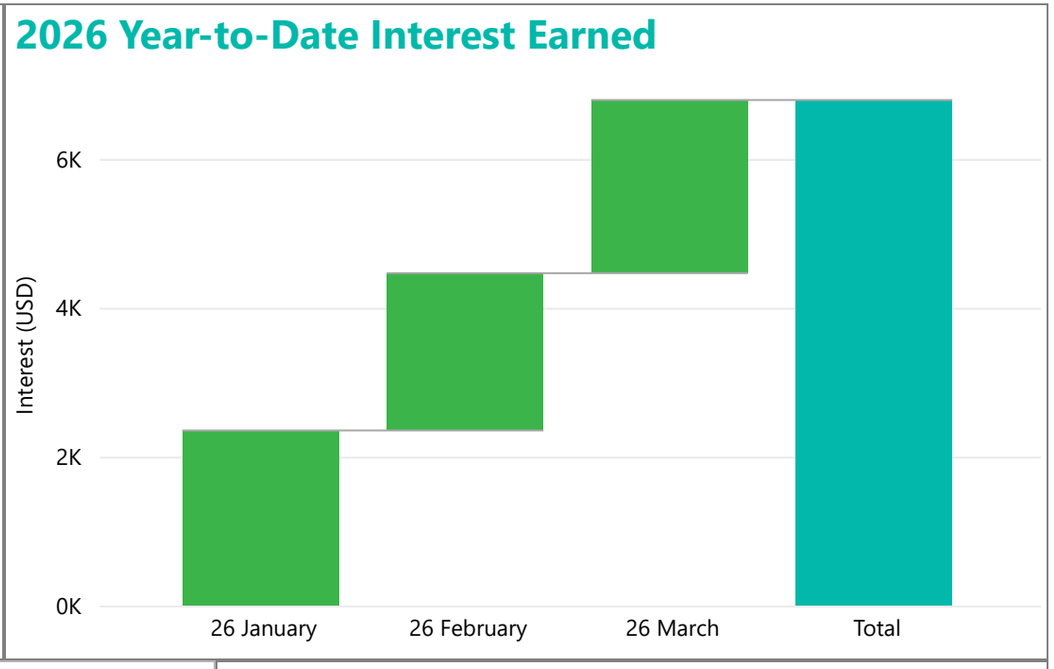
- Wholesale water purchase of **$0** accounts for 0.0% of the month's total expenses.
  - i. **AWWD and the City of Everett have not yet come to an agreement on the 2024-2025 or the 2025-2026 Water Rate.**
  - ii. **AWWD has not received a March 2026 bill from the City of Everett.**
- Power expenses payable to Snohomish County PUD of **$30,588.88** account for 66.0% of the month's total expenses.
- As of March 31, 2026, CWSA has spent **$811,259.64** or 7.2% of the $11,282,239.47 budgeted for the year.
- CWSA Water Consumption (in million gallons)

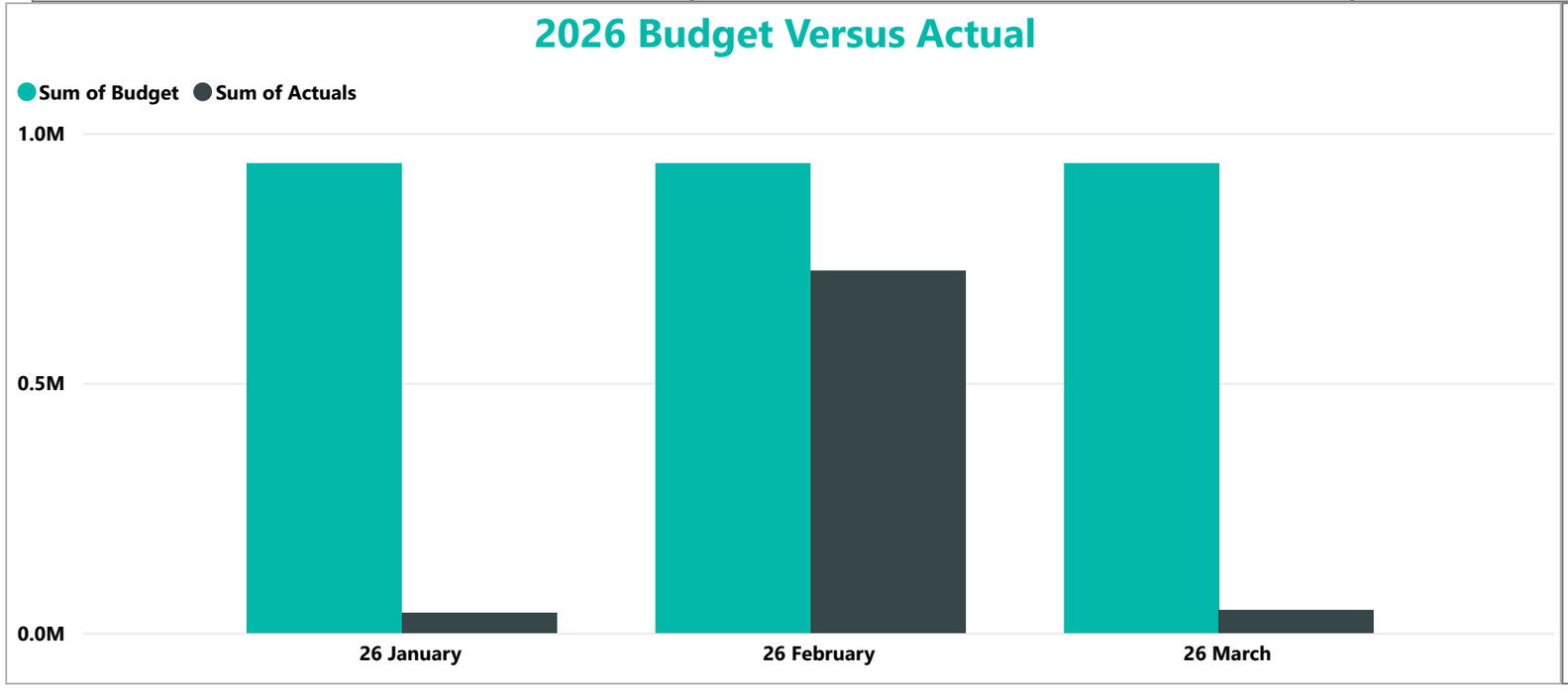
Mar 2026	Mar 2025	Variance	Jan-Mar 2026	Jan-Mar 2025	Variance
282.4	222.7	59.7	722.4	683.8	38.6
		26.8%			5.6%

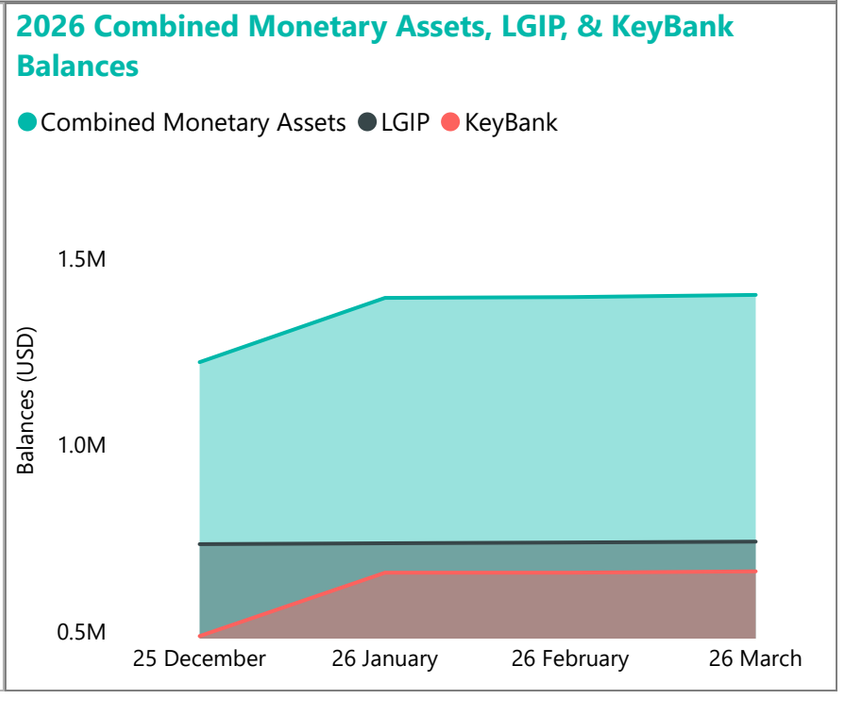
- The water utilization by CWSA member districts during March 2026 was as follows:
  SLWSD: 26.17% CVWD: 5.93% AWWD: 67.90%


Categories
Sum of February 26
723,975.78
Source of Supply
668,088.23
Pump Station M&O
37,870.79
Reservoir M&O
15,316.25
Administrative
2,673.99
Pipeline
26.52

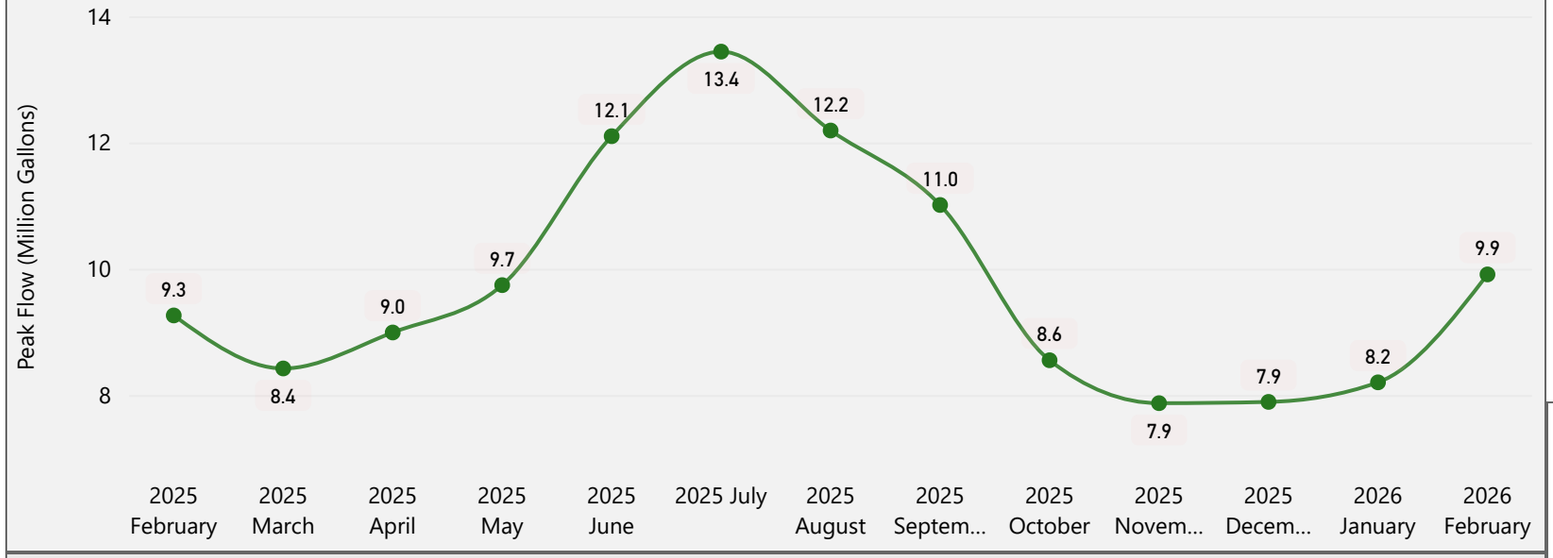

Categories
Sum of March 26
46,338.94
Pump Station M&O
40,143.05
Reservoir M&O
4,983.20
Administrative
1,186.17
Pipeline
26.52
Source of Supply
0.00


2026 Year-to-Date Interest Earned
Interest (USD)
6K
4K
2K
0K
26 January
26 February
26 March
Total

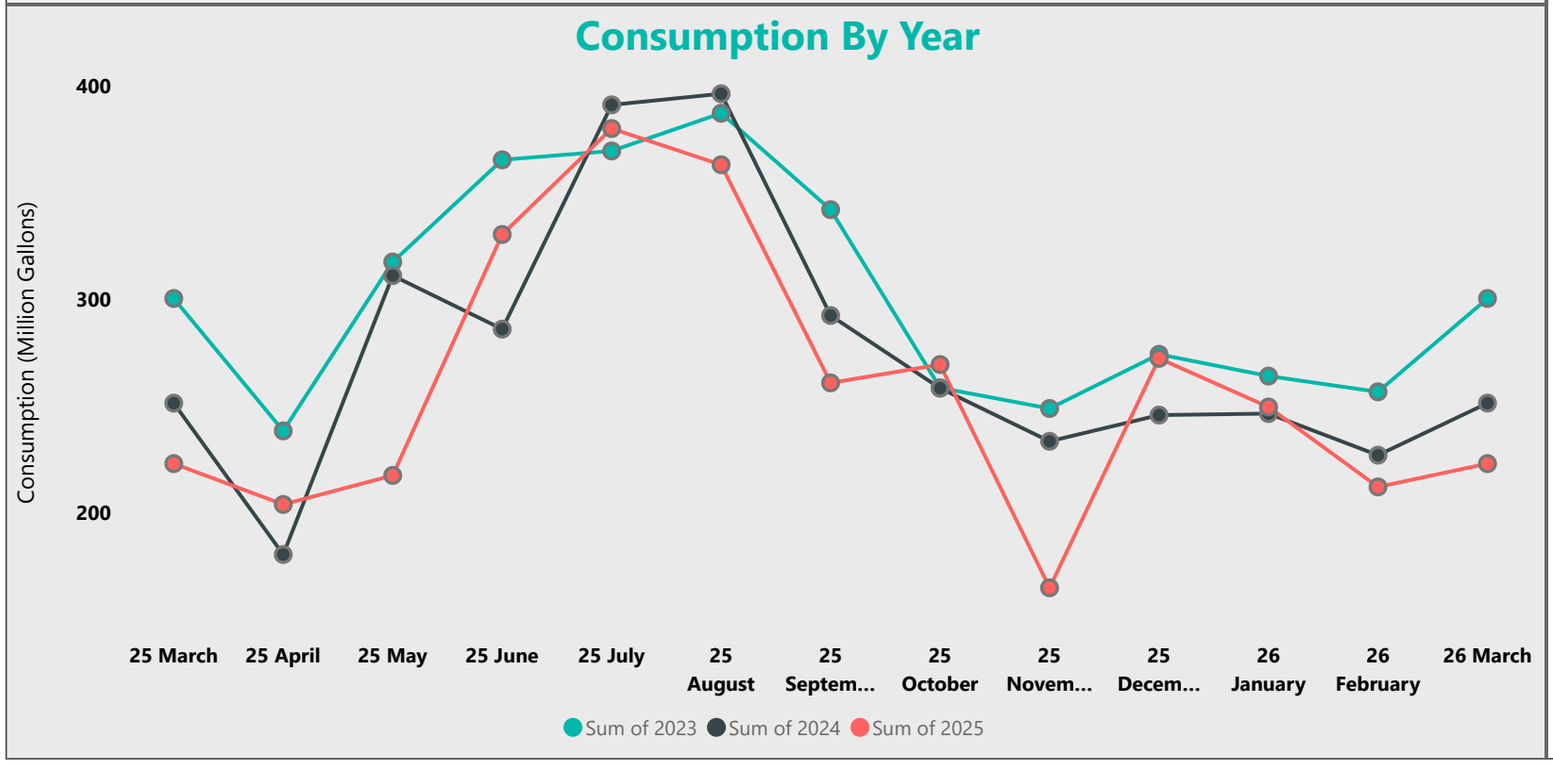

2026 Budget Versus Actual
Sum of Budget
Sum of Actuals
1.0M
0.5M
0.0M
26 January
26 February
26 March


2026 Combined Monetary Assets, LGIP, & KeyBank Balances
Combined Monetary Assets
LGIP
KeyBank
Balances (USD)
1.5M
1.0M
0.5M
25 December
26 January
26 February
26 March

Monthly Peak Day Flows



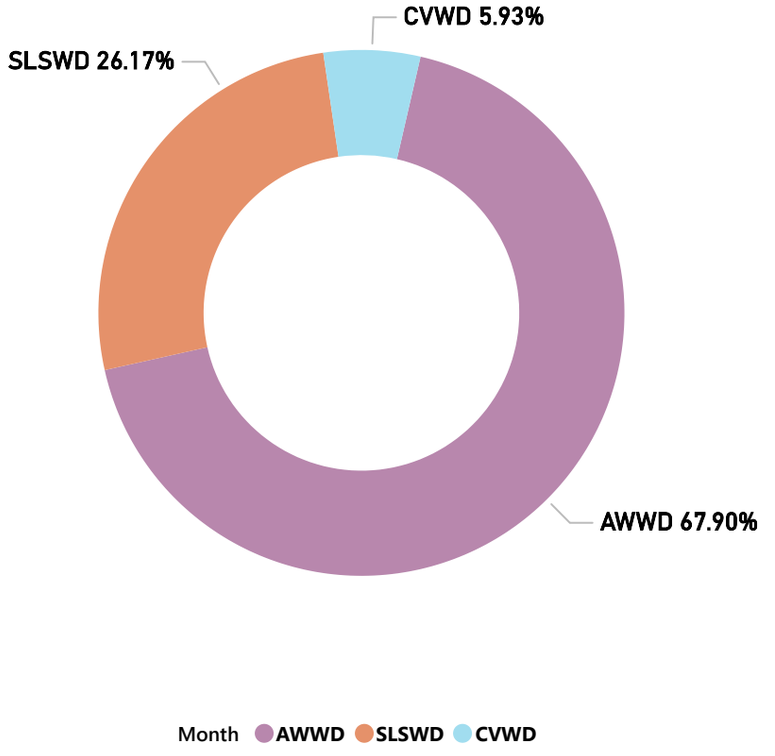
Consumption By Year



Consumption Variances

Month	Monthly	YTD
26 February	2.10	-21.10
26 March	59.66	38.56

Water Utilization By Member



Clearview Water Supply Agency

Bank Reconciliation

Key Bank

For The Month of Mar 2026

Bank Statement Beginning Balance - Key Bank					$	565,441.35
Deposits	Deposit per Bank		$	95,386.40	$	95,386.40
	Deposit per GL		$	79,333.85		
	Difference	1	$	16,052.55		
Cleared Checks & Charges	Per Bank	posted last mo	$	(91,790.65)		
	Per GL					
		3	$	(91,790.65)		
Fees & Charges					*	
Bank Statement Ending Balance - Key Bank					$	660,827.75
Add: Deposit posting in Transit					1 $	(16,052.55)
Less: Outstanding Checks					2	
Outstanding Checks:						
Total Outstanding Checks		2				
Total Previously Outstanding Checks		$ (91,790.65)	3			
Balance Per Books					**$**	**644,775.20**
	General Ledger Balances:	**Total Cash**	1-00-131-700		**$**	**644,775.20**
		Difference			**$**	**-**

Prepared By: Debi Van Giesen **Date:** 4/8/2026

Reviewed By: Heather Culver **Date:** 4/8/2026

KeyBank
P.O. Box 93885
Cleveland, OH 44101-5885

479681120040

3 31 T 809 00000 R EM AO
CLEARVIEW WATER SUPPLY AGENCY
3626 156TH STREET SW
LYNNWOOD WA 98087-5021

Questions or comments?
Call our Key Business Resource Center
1-888-KEY4BIZ (1-888-539-4249)
Dial 711 for TTY/TRS

Notice of Amendments to our *Deposit Account Agreement and Funds Availability Policy* effective June 1, 2026.

What's Changing
We're amending **Section 25: Arbitration Provision**. Specifically, we're clarifying when arbitration does and does not apply to collection actions. Here's what we're adding to Section 25, paragraph 3: *In addition, notwithstanding this Arbitration Provision, collection actions against you for debts owed to us (e.g., on an overdrawn account) are not subject to this arbitration provision unless either (i) you request that we switch to arbitration, or (ii) you assert a Claim against us during a collection action and we then request a switch to arbitration.*

Public Transaction 479681120040
CLEARVIEW WATER SUPPLY AGENCY

Beginning balance 2-28-26	$657,232.00
3 Additions	+95,386.40
3 Subtractions	-91,790.65
Ending balance 3-31-26	**$660,827.75**

Additions

Deposits	*Date*	*Serial #*	*Source*		
	3-3		Deposit	Branch 0475 Washington	$53,440.38
	3-3		Deposit	Branch 0475 Washington	25,893.47
	3-3		Deposit	Branch 0475 Washington	16,052.55
			Total additions		**$95,386.40**

Subtractions

Paper Checks ** check missing from sequence*

Check	*Date*	*Amount*	*Check*	*Date*	*Amount*	*Check*	*Date*	*Amount*
2098	3-3	$50,275.73	2099	3-6	570.00	2100	3-3	40,944.92
					Paper Checks Paid			**$91,790.65**

Local Government Investment Pool
Statement of Account for No: 00376
Primary Account
March 2026

ACCOUNTING
CLEARVIEW WATER SUPPLY AGENCY
3626 156TH ST SW
LYNNWOOD, WA 98087-2399

Date	Description	Comment	Deposits	Withdrawals	Balance
03/01/2026	Beginning Balance				738,173.31
03/31/2026	Month End Balance				738,173.31
	March Earnings	Daily Factor Earnings	2,326.00		
	Net Ending Balance				740,499.31

Account Summary

Beginning Balance:	738,173.31	**Gross Earnings:**	2,329.95
Deposits:	0.00	**Administrative Fee:**	3.95
Withdrawals:	0.00	**Net Earnings:**	2,326.00
Month End Balance:	738,173.31		
Administrative Fee Rate:	0.0063 %	**Net Ending Balance:**	740,499.31
Gross Earnings Rate:	3.7164 %		
Net Earnings Rate:	3.7101 %	**Average Daily Balance:**	738,173.31

Clearview Water Supply Agency
Budget Variance Report - Clearview
For the Two Months Ending Saturday, February 28, 2026

Acct. #	Description	Actual February	Budget February	Variance $	Variance %	Actual YTD	Total Annual Bdgt.	Variance $	Variance %
	Clearview Water Supply Agency								
	Administrative Expenses								
1-51-539-802-000	Financial Services	$2,673.99	$2,704.63	$30.64	99%	$5,003.67	$32,455.56	$27,451.89	15%
1-51-539-809-000	Professional Services	0.00	416.67	416.67	0%	0.00	5,000.04	5,000.04	0%
1-51-545-801-000	General Administrative	0.00	13.69	13.69	0%	0.00	164.28	164.28	0%
1-51-545-802-000	Meetings	0.00	2.92	2.92	0%	0.00	35.00	35.00	0%
1-51-555-100-000	Insurance	0.00	2,791.67	2,791.67	0%	0.00	33,500.04	33,500.04	0%
	Pump Station - Operations								
1-51-515-101-000	Purchased Power	21,744.12	34,449.73	12,705.61	63%	44,562.37	413,396.76	368,834.39	11%
1-51-516-102-000	Diesel Fuel	0.00	250.00	250.00	0%	0.00	3,000.00	3,000.00	0%
1-51-531-108-000	Alarm Monitoring	0.00	100.00	100.00	0%	490.95	1,200.00	709.05	41%
1-51-533-101-000	Communication Services	1,416.43	1,885.81	469.38	75%	2,848.43	22,629.72	19,781.29	13%
	Pump Station - Maintenance								
1-51-520-202-000	Maintenance Supplies	979.92	208.33	(771.59)	470%	979.92	2,499.96	1,520.04	39%
1-51-539-206-000	R&M - Structures, Grounds & Improvements	879.75	2,250.00	1,370.25	39%	2,303.08	27,000.00	24,696.92	9%
1-51-539-207-000	R&M - Electrical	4,257.80	3,750.00	(507.80)	114%	4,257.80	45,000.00	40,742.20	9%
1-51-539-208-000	R&M - Mechanical	982.45	1,666.67	684.22	59%	2,554.08	20,000.04	17,445.96	13%
1-51-539-209-000	R&M - Telemetry	1,315.41	4,333.33	3,017.92	30%	1,315.41	51,999.96	50,684.55	3%
1-51-539-210-000	R&M - Pumps	6,294.91	5,416.67	(878.24)	116%	10,770.47	65,000.04	54,229.57	17%
1-51-539-211-000	R&M - Back up Generator	0.00	3,750.00	3,750.00	0%	627.50	45,000.00	44,372.50	1%
	Reservoir - Operations								
1-51-510-301-000	Purchased Power	98.03	68.37	(29.66)	143%	199.20	820.44	621.24	24%
	Reservoir - Maintenance								
1-51-539-406-000	R&M - Structures, Grounds & Improvements	206.55	2,583.33	2,376.78	8%	5,251.56	30,999.96	25,748.40	17%
1-51-539-407-000	R&M - Electrical	0.00	650.00	650.00	0%	0.00	7,800.00	7,800.00	0%
1-51-539-408-000	R&M - Mechanical	811.32	625.00	(186.32)	130%	1,414.64	7,500.00	6,085.36	19%
1-51-539-409-000	R&M - Scada & Telemtry	14,200.35	2,500.00	(11,700.35)	568%	14,200.35	30,000.00	15,799.65	47%
	Pipeline - Maintenance								
1-51-539-612-000	R&M - Pipeline & Appurtanences	0.00	1,500.00	1,500.00	0%	0.00	18,000.00	18,000.00	0%
1-51-539-613-000	R&M - Easement Maintenance	0.00	1,250.00	1,250.00	0%	0.00	15,000.00	15,000.00	0%
1-51-539-614-000	R&M - Cathodic Protection	26.52	2,500.00	2,473.48	1%	53.04	30,000.00	29,946.96	0%
1-51-539-616-000	R&M - SCADA & Telemetry	0.00	1,020.83	1,020.83	0%	0.00	12,249.96	12,249.96	0%
	Source of Supply - Operations								
1-51-510-701-000	Purchased Water	668,088.23	863,498.98	195,410.75	77%	668,088.23	10,361,987.71	9,693,899.48	6%
	Total Expenses	**$723,975.78**	**$940,186.63**	**$216,210.85**	**77%**	**$764,920.70**	**$11,282,239.47**	**$10,517,318.77**	**7%**

Clearview Water Supply Agency
Budget Variance Report - Clearview
For the Three Months Ending Tuesday, March 31, 2026

Acct. #	Description	Actual March	Budget March	Variance $	Variance %	Actual YTD	Total Annual Bdgt.	Variance $	Variance %
	Clearview Water Supply Agency								
	Administrative Expenses								
1-51-539-802-000	Financial Services	$1,186.17	$2,704.63	$1,518.46	44%	$6,189.84	$32,455.56	$26,265.72	19%
1-51-539-809-000	Professional Services	0.00	416.67	416.67	0%	0.00	5,000.04	5,000.04	0%
1-51-545-801-000	General Administrative	0.00	13.69	13.69	0%	0.00	164.28	164.28	0%
1-51-545-802-000	Meetings	0.00	2.92	2.92	0%	0.00	35.00	35.00	0%
1-51-555-100-000	Insurance	0.00	2,791.67	2,791.67	0%	0.00	33,500.04	33,500.04	0%
	Pump Station - Operations								
1-51-515-101-000	Purchased Power	30,498.19	34,449.73	3,951.54	89%	75,060.56	413,396.76	338,336.20	18%
1-51-516-102-000	Diesel Fuel	0.00	250.00	250.00	0%	0.00	3,000.00	3,000.00	0%
1-51-531-108-000	Alarm Monitoring	0.00	100.00	100.00	0%	490.95	1,200.00	709.05	41%
1-51-533-101-000	Communication Services	1,510.80	1,885.81	375.01	80%	4,359.23	22,629.72	18,270.49	19%
	Pump Station - Maintenance								
1-51-520-202-000	Maintenance Supplies	0.00	208.33	208.33	0%	979.92	2,499.96	1,520.04	39%
1-51-539-206-000	R&M - Structures, Grounds & Improvements	415.40	2,250.00	1,834.60	18%	2,718.48	27,000.00	24,281.52	10%
1-51-539-207-000	R&M - Electrical	0.00	3,750.00	3,750.00	0%	4,257.80	45,000.00	40,742.20	9%
1-51-539-208-000	R&M - Mechanical	0.00	1,666.67	1,666.67	0%	2,554.08	20,000.04	17,445.96	13%
1-51-539-209-000	R&M - Telemetry	3,315.00	4,333.33	1,018.33	77%	4,630.41	51,999.96	47,369.55	9%
1-51-539-210-000	R&M - Pumps	4,403.66	5,416.67	1,013.01	81%	15,174.13	65,000.04	49,825.91	23%
1-51-539-211-000	R&M - Back up Generator	0.00	3,750.00	3,750.00	0%	627.50	45,000.00	44,372.50	1%
	Reservoir - Operations								
1-51-510-301-000	Purchased Power	90.69	68.37	(22.32)	133%	289.89	820.44	530.55	35%
	Reservoir - Maintenance								
1-51-539-406-000	R&M - Structures, Grounds & Improvements	4,123.60	2,583.33	(1,540.27)	160%	9,375.16	30,999.96	21,624.80	30%
1-51-539-407-000	R&M - Electrical	0.00	650.00	650.00	0%	0.00	7,800.00	7,800.00	0%
1-51-539-408-000	R&M - Mechanical	768.91	625.00	(143.91)	123%	2,183.55	7,500.00	5,316.45	29%
1-51-539-409-000	R&M - Scada & Telemtry	0.00	2,500.00	2,500.00	0%	14,200.35	30,000.00	15,799.65	47%
	Pipeline - Maintenance								
1-51-539-612-000	R&M - Pipeline & Appurtanences	0.00	1,500.00	1,500.00	0%	0.00	18,000.00	18,000.00	0%
1-51-539-613-000	R&M - Easement Maintenance	0.00	1,250.00	1,250.00	0%	0.00	15,000.00	15,000.00	0%
1-51-539-614-000	R&M - Cathodic Protection	26.52	2,500.00	2,473.48	1%	79.56	30,000.00	29,920.44	0%
1-51-539-616-000	R&M - SCADA & Telemetry	0.00	1,020.83	1,020.83	0%	0.00	12,249.96	12,249.96	0%
	Source of Supply - Operations								
1-51-510-701-000	Purchased Water	0.00	863,498.98	863,498.98	0%	668,088.23	10,361,987.71	9,693,899.48	6%
	Total Expenses	**$46,338.94**	**$940,186.63**	**$893,847.69**	**5%**	**$811,259.64**	**$11,282,239.47**	**$10,470,979.83**	**7%**

CWSA Expense Allocation - Mar 2026

Acct No.	Category	Allocation Basis	Total Expense	AWWD		Cross Valley		Silver Lake	
1.51.539.802	Financial Services	Equal Shares	1,186.17		395.39		395.39		395.39
1.51.533.101	Telephone Service	Base Pump Station	1,510.80	55.22%	834.26	17.91%	270.58	26.87%	405.96
1.51.539.206	Structures Grounds & Imp	Base Pump Station	415.40	55.22%	229.38	17.91%	74.40	26.87%	111.62
1.51.539.209	Telemetry	Base Pump Station	3,315.00	55.22%	1,830.54	17.91%	593.72	26.87%	890.74
1.51.539.210	Pumps	Base Pump Station	4,403.66	55.22%	2,431.70	17.91%	788.70	26.87%	1,183.26
1.51.510.301	Purchased Power	Base Reservoir	90.69	63.03%	57.16	16.81%	15.25	20.16%	18.28
1.51.539.406	Structures, Grounds & Imp	Base Reservoir	4,123.60	63.03%	2,599.10	16.81%	693.18	20.16%	831.32
1.51.539.408	Mechanical	Base Reservoir	768.91	63.03%	484.64	16.81%	129.25	20.16%	155.02
1.51.539.614	R&M Cathodic Protection	Pipeline	26.52	63.03%	16.72	16.81%	4.45	20.16%	5.35
1.51.510.701	Purchased Water	Commodity	0.00	67.90%	0.00	5.93%	0.00	26.17%	0.00
1.51.515.101	Pump Station Power	Commodity	30,498.19	67.90%	20,706.75	5.93%	1,809.15	26.17%	7,982.29
		Total Expenses	46,338.94		29,585.64		4,774.07		11,979.23
							Total to 3 entities		46,338.94

Clearview Water Supply Agency (CWSA) Monthly Billing Reconciliation For Water

	Net Consumption Everett Cubic Feet			Gallons	Everett $ Billed	Beginning Elevation Feet	Ending Elevation Feet	Elevation Change Feet	Elevation X 198,795 Gallons *	Alderwood WWD % of Total Billed	Alderwood WWD Consumption Gallons	Alderwood WWD $ Amount Billed	Silver Lake WSD % of Total Billed	Silver Lake WSD Consumption Gallons	Silver Lake WSD $ Amount Billed	Cross Valley WD % of Total Billed	Cross Valley WD Consumption Gallons	Cross Valley WD $ Amount Billed	Agg. Gallons Through Meters	Difference Between Everett's Bill & (7 Meters & Res Change)	Total $ Allocated
						Note: 198,795 Gallons = 1 Foot															
January-25	33,324,900	X	7.48	249,287,581	$ 334,351.75	44.74	40.10	(4.64)	-922,409	62.008%	145,892,000	$ 207,323.24	31.572%	74,282,816	$ 105,561.33	6.421%	15,106,312	$ 21,467.18	235,281,128	14,928,862	$ 334,351.75
February	28,314,200	X	7.48	211,804,939	$ 284,078.90	40.10	40.76	0.66	131,205	61.889%	154,508,000	$ 175,812.42	31.522%	78,696,076	$ 89,547.13	6.589%	16,450,995	$ 18,719.35	249,655,071	(37,981,336)	$ 284,078.90
March	29,776,700	X	7.48	222,745,200	$ 298,753.01	40.76	44.20	3.44	683,855	61.671%	137,598,000	$ 184,245.21	31.505%	70,292,864	$ 94,122.91	6.823%	15,223,846	$ 20,384.89	223,114,710	(1,053,365)	$ 298,753.01
April	27,219,300	X	7.48	203,614,518	$ 273,093.46	44.20	41.03	(3.17)	-630,180	55.699%	118,091,000	$ 152,110.84	36.410%	77,194,880	$ 99,433.30	7.891%	16,729,772	$ 21,549.31	212,015,652	(7,770,954)	$ 273,093.46
May	29,033,400	X	7.48	217,184,929	$ 291,295.20	41.03	37.90	(3.13)	-622,228	47.136%	113,457,000	$ 137,303.47	43.004%	103,511,658	$ 125,267.81	9.861%	23,735,241	$ 28,723.93	240,703,899	(22,896,741)	$ 291,295.20
June	44,141,700	X	7.48	330,202,870	$ 442,878.19	37.90	42.90	5.00	993,975	52.878%	177,856,000	$ 234,183.56	39.244%	132,000,256	$ 173,805.15	7.878%	26,497,603	$ 34,889.48	336,353,859	(7,144,964)	$ 442,878.19
July	50,782,100	X	7.48	379,876,515	$ 509,501.78	42.90	40.06	(2.84)	-564,578	48.557%	187,337,000	$ 247,399.75	42.234%	162,940,800	$ 215,181.81	9.209%	35,529,111	$ 46,920.22	385,806,911	(5,365,819)	$ 509,501.78
August	48,508,000	X	7.48	362,865,064	$ 486,685.82	40.06	40.89	0.83	165,000	48.186%	178,412,000	$ 234,513.67	42.991%	159,178,369	$ 209,232.03	8.823%	32,667,745	$ 42,940.12	370,258,114	(7,558,050)	$ 486,685.82
September	34,843,600	X	7.48	260,648,247	$ 349,589.12	40.89	43.90	3.01	598,373	48.631%	132,564,000	$ 170,009.40	42.804%	116,679,168	$ 149,637.57	8.565%	23,347,249	$ 29,942.15	272,590,417	(12,540,543)	$ 349,589.12
October	35,984,000	X	7.48	269,179,032	$ 361,030.68	43.90	43.03	(0.87)	-172,952	58.193%	152,691,000	$ 210,095.10	34.295%	89,986,048	$ 123,816.25	7.512%	19,709,539	$ 27,119.33	262,386,587	6,965,396	$ 361,030.68
November	21,984,000	X	7.48	164,451,752	$ 220,567.28	43.03	42.30	(0.73)	-145,120	57.369%	125,119,000	$ 126,538.17	35.376%	77,152,489	$ 78,027.59	7.255%	15,822,055	$ 16,001.52	218,093,544	(53,496,672)	$ 220,567.28
December	36,369,000	X	7.48	272,059,032	$ 820,047.77	42.30	41.11	(1.19)	-236,566	61.163%	138,625,000	$ 501,569.24	31.789%	72,048,791	$ 260,685.00	7.048%	15,973,124	$ 57,793.53	226,646,915	45,648,682	$ 820,047.77
'25Totals	**420,280,900**			**3,143,919,678**	**$ 4,671,872.96**					**54.51%**	**1,762,150,000**	**$ 2,581,104.07**	**37.55%**	**1,213,964,215**	**$ 1,724,317.88**	**7.94%**	**256,792,594**	**$ 366,451.01**	**3,232,906,809**	**-88,265,505**	**$ 4,671,872.96**
January-26	30,219,300	X	7.48	226,056,078	$ 681,323.22	41.11	39.57	(1.54)	-306,144	60.537%	150,950,000	$ 412,451.26	32.039%	79,890,304	$ 218,289.88	7.424%	18,512,163	$ 50,582.08	249,352,467	(22,990,244)	$ 681,323.22
February	28,593,600	X	7.48	213,894,997	$ 644,670.85	39.57	42.53	2.96	588,433	66.090%	167,730,000	$ 426,060.54	27.546%	69,910,144	$ 177,582.74	6.364%	16,151,587	$ 41,027.57	253,791,731	(40,485,168)	$ 644,670.85
March		X	7.48	0		42.53	40.90	1.63	324,036	67.895%	191,745,406	$ -	26.173%	73,916,416	$ -	5.932%	16,752,333	$ -	282,414,155	(282,738,191)	$ -
April		X	7.48	0		40.90		-	0	0.000%		$ -	0.000%		$ -	0.000%		$ -	-	-	$ -
May		X	7.48	0		0.00		-	0	0.000%		$ -	0.000%		$ -	0.000%		$ -	-	-	$ -
June		X	7.48	0		0.00		-	0	0.000%		$ -	0.000%		$ -	0.000%		$ -	-	-	$ -
July		X	7.48	0		0.00		-	0	0.000%		$ -	0.000%		$ -	0.000%		$ -	-	-	$ -
August		X	7.48	0		0.00		-	0	0.000%		$ -	0.000%		$ -	0.000%		$ -	-	-	$ -
September		X	7.48	0		0.00		-	0	0.000%		$ -	0.000%		$ -	0.000%		$ -	-	-	$ -
October		X	7.48	0		0.00		-	0	0.000%		$ -	0.000%		$ -	0.000%		$ -	-	-	$ -
November		X	7.48	0		0.00		-	0	0.000%		$ -	0.000%		$ -	0.000%		$ -	-	-	$ -
December		X	7.48	0		0.00		-	0	0.000%		$ -	0.000%		$ -	0.000%		$ -	-	-	$ -
'26Totals	**58,812,900**			**439,951,075**	**$ 1,325,994.07**					**64.98%**	**510,425,406**	**$ 838,511.80**	**28.48%**	**223,716,864**	**$ 395,872.62**	**6.55%**	**51,416,083**	**$ 91,609.65**	**785,558,352**	**-346,213,603**	**$ 1,325,994.07**

Clearview Water Supply Agency

Alderwood Water & Wastewater District

AWWD @ CVR

Date Read	Meter Reading	Total Calculated Gallons	Total Calculated CCF (0.0013369)
1/2/2025	1,110,361,000	163,103,000	218,052
1/31/2025	1,256,253,000	145,892,000	195,043
3/4/2025	1,410,761,000	154,508,000	206,561
4/1/2025	1,548,359,000	137,598,000	183,955
5/1/2025	1,666,450,000	118,091,000	157,876
6/2/2025	1,779,907,000	113,457,000	151,680
7/1/2025	1,957,763,000	177,856,000	237,775
8/1/2025	2,145,100,000	187,337,000	250,451
9/2/2025	2,323,512,000	178,412,000	238,519
10/1/2025	2,456,076,000	132,564,000	177,225
11/3/2025	2,608,767,000	152,691,000	204,132
12/1/2025	2,733,886,000	125,119,000	167,271
12/31/2025	2,872,511,000	138,625,000	185,328
2/2/2026	3,023,461,000	150,950,000	201,805
2/11/2026	3,092,542,000	69,081,000	92,354
3/2/2026	65,103,000	98,649,000	131,884
4/1/2026	256,831,000	191,728,000	256,321

Clearview Water Supply Agency

Silver Lake Water District			Silver Lake Water District			Silver Lake Water District				Silver Lake Water District			Silver Lake Water District			Total Consumption Gallons	Total Consumption CCF
7429 Cathcart Way Meter #4			14932 Snoh-Cascade DR. Meter #5*			3917 180th St SE #8				Snoh-Cascade Dr Meter #9			Meter #7 - 7809 132nd Place SE				
Date Read	Meter Reading	Consumption Gallons	Date Read	Meter Reading	Consumption Gallons	Date Read	Meter Reading 2"	Meter Reading 8"	Consumption Gallons	Date Read	Meter Reading	Consumption Gallons	Date Read	Meter Reading	Consumption Gallons		0.001336898
1/2/2025	5,152,446,976	43,226,112	1/2/2025	1,060,353,472	14,708,736	1/2/2025	0	24,000	0	1/2/2025	2,422,462,976	14,071,040	1/2/2025	16,377	0	72,005,888	96,265
1/31/2025	5,197,082,112	44,635,136	1/31/2025	1,075,410,176	15,056,704	1/31/2025	0	24,000	0	1/31/2025	2,437,053,952	14,590,976	1/31/2025	16,377	0	74,282,816	99,309
3/4/2025	5,244,262,912	47,180,800	3/4/2025	1,091,644,160	16,233,984	3/4/2025	0	24,000	0	3/4/2025	2,452,335,104	15,281,152	3/4/2025	16,517	140	78,696,076	105,209
4/1/2025	5,286,368,768	42,105,856	4/1/2025	1,106,029,184	14,385,024	4/1/2025	0	24,000	0	4/1/2025	2,466,137,088	13,801,984	4/1/2025	16,517	0	70,292,864	93,974
5/1/2025	5,332,622,848	46,254,080	5/1/2025	1,121,940,992	15,911,808	5/1/2025	0	24,000	0	5/1/2025	2,481,166,080	15,028,992	5/1/2025	16,517	0	77,194,880	103,202
6/2/2025	5,394,706,944	62,084,096	6/2/2025	1,142,937,344	20,996,352	6/2/2025	0	24,000	0	6/2/2025	2,501,594,112	20,428,032	6/2/2025	19,695	3,178	103,511,658	138,385
7/1/2025	5,473,781,760	79,074,816	7/1/2025	1,169,715,968	26,778,624	7/1/2025	0	24,000	0	7/1/2025	2,527,740,928	26,146,816	7/1/2025	19,695	0	132,000,256	176,471
8/1/2025	5,571,366,912	97,585,152	8/1/2025	1,202,758,528	33,042,560	8/1/2025	0	24,000	0	8/1/2025	2,560,054,016	32,313,088	8/1/2025	19,695	0	162,940,800	217,835
9/2/2025	5,666,539,008	95,172,096	9/2/2025	1,235,205,888	32,447,360	9/2/2025	0	24,000	0	9/2/2025	2,591,612,928	31,558,912	9/2/2025	19,696	1	159,178,369	212,805
10/1/2025	5,736,458,752	69,919,744	10/1/2025	1,258,878,208	23,672,320	10/1/2025	0	24,000	0	10/1/2025	2,614,700,032	23,087,104	10/1/2025	19,696	0	116,679,168	155,988
11/3/2025	5,790,431,744	53,972,992	11/3/2025	1,277,149,184	18,270,976	11/3/2025	0	24,000	0	11/3/2025	2,632,442,112	17,742,080	11/3/2025	19,696	0	89,986,048	120,302
12/1/2025	5,835,847,168	45,415,424	12/1/2025	1,290,562,432	13,413,248	12/1/2025	0	24,000	0	12/1/2025	2,650,765,056	18,322,944	12/1/2025	20,569	873	77,152,489	103,145
12/31/2025	5,879,044,608	43,197,440	12/31/2025	1,305,135,488	14,573,056	12/31/2025	0	24,000	0	12/31/2025	2,665,042,944	14,277,888	12/31/2025	20,976	407	72,048,791	96,322
2/2/2026	5,927,132,672	48,088,064	2/2/2026	1,321,137,664	16,002,176	2/2/2026	0	24,000	0	2/2/2026	2,680,843,008	15,800,064	2/2/2026	20,976	0	79,890,304	106,805
3/2/2026	5,969,175,040	42,042,368	3/2/2026	1,335,166,336	14,028,672	3/2/2026	0	24,000	0	3/2/2026	2,694,682,112	13,839,104	3/2/2026	20,976	0	69,910,144	93,463
4/1/2026	6,013,643,776	44,468,736	4/1/2026	1,349,980,032	14,813,696	4/1/2026	0	24,000	0	4/1/2026	2,709,316,096	14,633,984	4/1/2026	20,976	0	73,916,416	98,819

Clearview Water Supply Agency

Cross Valley Water District Cross Valley Water @ CVR			Cross Valley Water District Cross Valley Water @ CVPS			Cross Valley Water District Cross Valley Water @ 77th and Lowell				
Date Read	Meter Reading	Calculated Gallons	Date Read	Meter Reading	Calculated Gallons	Date Read	Meter Reading	Calculated Gallons	Total Consumption Gallons	Total Consumption CCF 0.001336898
1/2/2025	57,503,300	8,653,466	1/2/2025	48,319,100	1,163,969	1/2/2025	63,282,528	7,199,963	17,017,398	22,751
1/31/2025	58,468,300	7,218,702	1/31/2025	48,459,800	1,052,509	1/31/2025	64,196,248	6,835,101	15,106,312	20,196
3/4/2025	59,483,400	7,593,476	3/4/2025	48,618,600	1,187,907	3/4/2025	65,221,526	7,669,613	16,450,995	21,993
4/1/2025	60,475,900	7,424,416	4/1/2025	48,751,100	991,169	4/1/2025	66,131,658	6,808,261	15,223,846	20,353
5/1/2025	61,560,600	8,114,120	5/1/2025	48,901,900	1,128,062	5/1/2025	67,132,603	7,487,589	16,729,772	22,366
6/2/2025	63,331,100	13,244,261	6/2/2025	49,099,400	1,477,403	6/2/2025	68,337,543	9,013,578	23,735,241	31,732
7/1/2025	65,334,300	14,984,978	7/1/2025	49,372,500	2,042,930	7/1/2025	69,603,457	9,469,695	26,497,603	35,425
8/1/2025	68,142,800	21,009,040	8/1/2025	49,736,100	2,719,917	8/1/2025	71,180,908	11,800,154	35,529,111	47,499
9/2/2025	70,698,900	19,120,957	9/2/2025	50,043,700	2,301,008	9/2/2025	72,684,250	11,245,780	32,667,745	43,673
10/1/2025	72,466,400	13,221,819	10/1/2025	50,237,100	1,446,733	10/1/2025	73,844,423	8,678,697	23,347,249	31,213
11/3/2025	73,845,300	10,314,889	11/3/2025	50,397,000	1,196,135	11/3/2025	74,940,405	8,198,515	19,709,539	26,350
12/1/2025	74,961,100	8,346,764	12/1/2025	50,527,700	977,704	12/1/2025	75,809,006	6,497,587	15,822,055	21,152
12/31/2025	76,017,000	7,898,681	12/31/2025	50,669,900	1,063,730	12/31/2025	76,746,202	7,010,713	15,973,124	21,354
2/2/2026	77,249,300	9,218,245	2/2/2026	50,818,600	1,112,353	2/2/2026	77,839,918	8,181,564	18,512,163	24,749
3/2/2026	78,336,500	8,132,821	3/2/2026	50,940,300	910,379	3/2/2026	78,790,171	7,108,387	16,151,587	21,593
4/1/2026	79,440,900	8,261,486	4/1/2026	51,076,300	1,017,351	4/1/2026	79,789,232	7,473,496	16,752,333	22,396

Clearview Water Supply Agency

Billing Month	Date Read	Everett Billing Meter Reading	Calculated Gallons	CWSA Master Meter @CVPS Reading	Calculated Gallons	AWWD (G)	SLWD (G)	CVWD (G)	Total Consumption Gallons	Difference w/ Everett	Difference w/ CWSA MM	Difference between Everett BM & CWSA MM	AWWD (CCF)	SLWD (CCF)	CVWD (CCF)
	12/31/2010	188,740,000	New register 0 start												
January	1/31/2025	16,678,930,000	225,310,000	10,412,100,000	231,190,000	145,892,000	74,282,816	15,106,312	235,281,128	-9,971,128	-4,091,128	-5,880,000	195,043	99,309	20,196
February	3/4/2025	16,921,350,000	242,420,000	10,660,760,000	248,660,000	154,508,000	78,696,076	16,450,995	249,655,071	-7,235,071	-995,071	-6,240,000	206,561	105,209	21,993
March	4/1/2025	17,136,630,000	215,280,000	10,881,160,000	220,400,000	137,598,000	70,292,864	15,223,846	223,114,710	-7,834,710	-2,714,710	-5,120,000	183,955	93,974	20,353
April	5/1/2025	17,338,000,000	201,370,000	11,089,120,000	207,960,000	118,091,000	77,194,880	16,729,772	212,015,652	-10,645,652	-4,055,652	-6,590,000	157,876	103,202	22,366
May	6/2/2025	17,559,700,000	221,700,000	11,318,360,000	229,240,000	113,457,000	103,511,658	23,735,241	240,703,899	-19,003,899	-11,463,899	-7,540,000	151,680	138,385	31,732
June	7/1/2025	17,888,860,000	329,160,000	11,654,300,000	335,940,000	177,856,000	132,000,256	26,497,603	336,353,859	-7,193,859	-413,859	-6,780,000	237,775	176,471	35,425
July	8/1/2025	18,268,340,000	379,480,000	12,039,290,000	384,990,000	187,337,000	162,940,800	35,529,111	385,806,911	-6,326,911	-816,911	-5,510,000	250,451	217,835	47,499
August	9/2/2025	18,631,970,000	363,630,000	12,408,690,000	369,400,000	178,412,000	159,178,369	32,667,745	370,258,114	-6,628,114	-858,114	-5,770,000	238,519	212,805	43,673
September	10/1/2025	18,889,845,000	257,875,000	12,681,570,000	272,880,000	132,564,000	116,679,168	23,347,249	272,590,417	-14,715,417	289,583	-15,005,000	177,225	155,988	31,213
October	11/3/2025	19,153,440,000	263,595,000	12,943,850,000	262,280,000	152,691,000	89,986,048	19,709,539	262,386,587	1,208,413	-106,587	1,315,000	204,132	120,302	26,350
November	12/1/2025	19,363,380,000	209,940,000	13,160,130,000	216,280,000	125,119,000	77,152,489	15,822,055	218,093,544	-8,153,544	-1,813,544	-6,340,000	167,271	103,145	21,152
December	12/31/2025	19,582,490,000	219,110,000	13,387,040,000	226,910,000	138,625,000	72,048,791	15,973,124	226,646,915	-7,536,915	263,085	-7,800,000	185,328	96,322	21,354
January	2/2/2026	19,822,760,000	240,270,000	13,634,700,000	247,660,000	150,950,000	79,890,304	18,512,163	249,352,467	-9,082,467	-1,692,467	-7,390,000	201,805	106,805	24,749
February	3/2/2026	20,038,690,000	215,930,000	13,855,380,000	220,680,000	167,730,000	69,910,144	16,151,587	253,791,731	-37,861,731	-33,111,731	-4,750,000	224,238	93,463	21,593
March	4/1/2026	20,321,160,000	282,470,000	285,470,000	285,470,000	191,745,406	73,916,416	16,752,333	282,414,155	55,845	3,055,845	-3,000,000	256,344	98,819	22,396

CWSA Capital Improvement Project Updates

April 15th, 2026

Water for Life, Forever | Clean Reliable Water and Wastewater Services for a Healthy Community

Agenda

1. Clearview infrastructure updates
   - Clearview pump station
   - Clearview reservoir & pipeline
2. Recommended contracting strategy

Clearview Infrastructure Updates

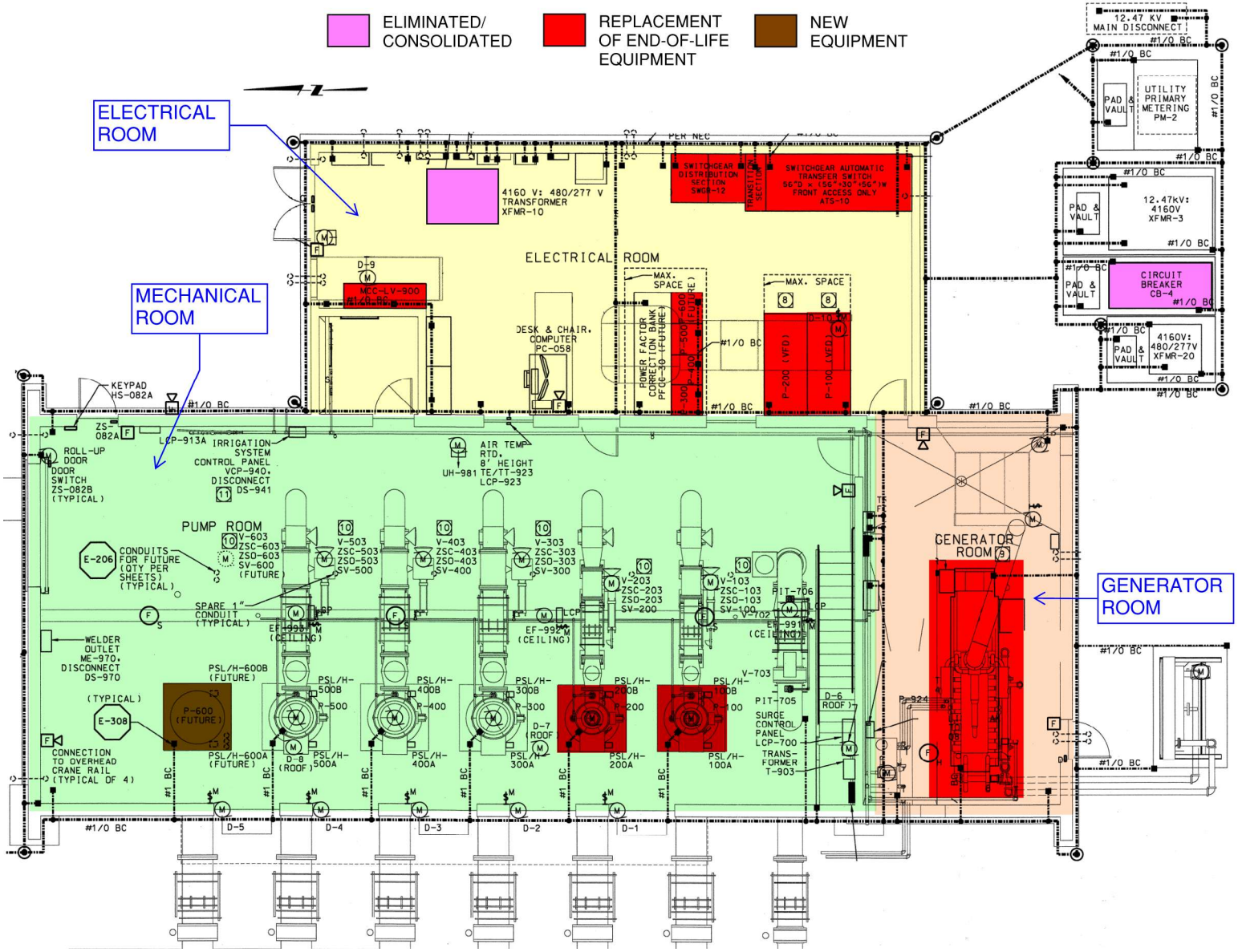
Clearview Pump Station

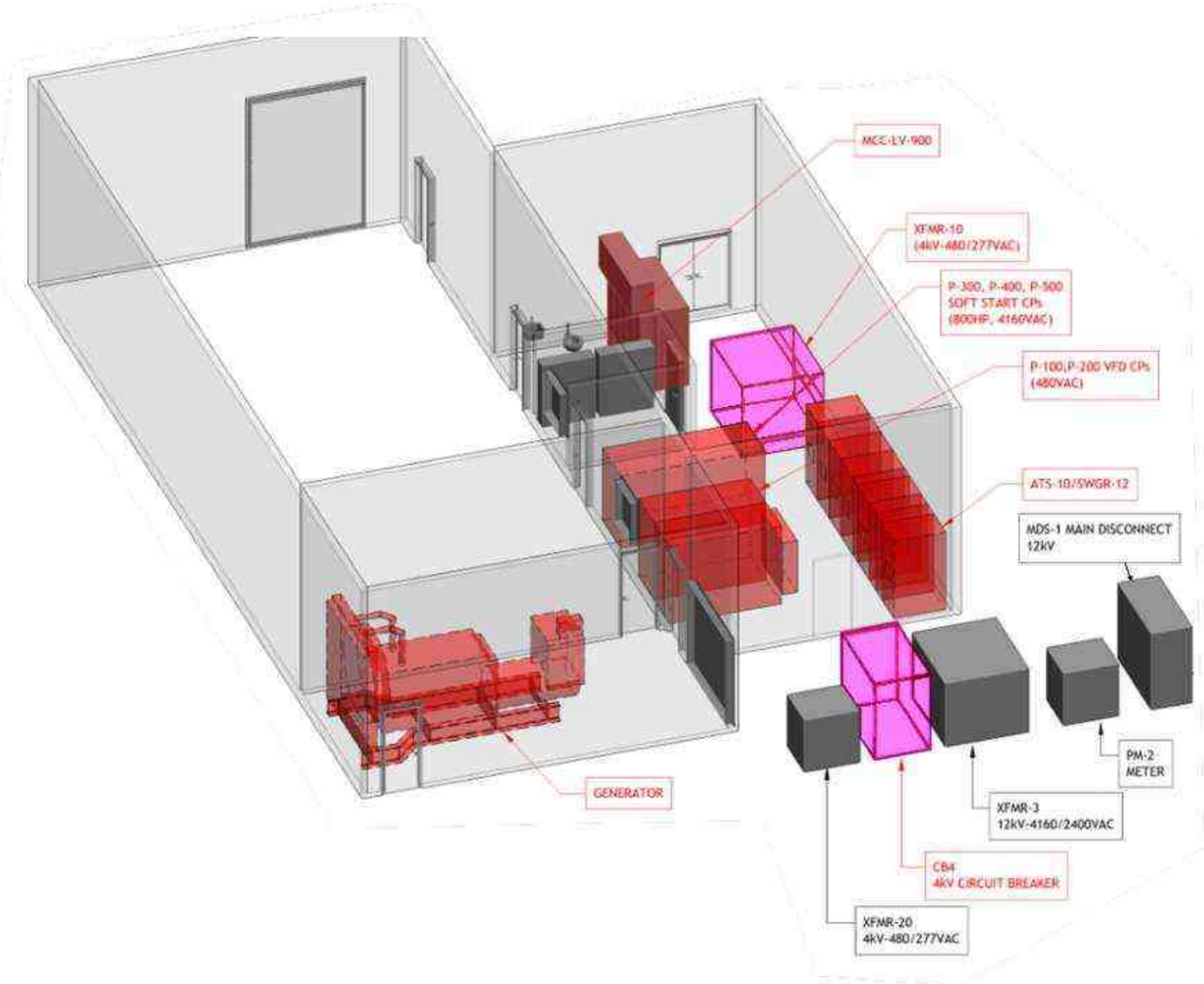
Electrical Modernization:

1. Replace aging electrical infrastructure
2. Upgrade to medium-voltage architecture
3. Enhance O&M and station readiness

Mechanical Upgrades:

1. Close current capacity gap
2. Ensure 24/7/365 system reliability
3. Optimize long-term O&M


ELIMINATED/ CONSOLIDATED
REPLACEMENT OF END-OF-LIFE EQUIPMENT
NEW EQUIPMENT
ELECTRICAL ROOM
MECHANICAL ROOM
GENERATOR ROOM
12.47 KV MAIN DISCONNECT
UTILITY PRIMARY METERING PM-2
12.47kV: 4160V XFMR-3
CIRCUIT BREAKER CB-4
4160V: 480/277V XFMR-20
4160 V: 480/277 V TRANSFORMER XFMR-10
SWITCHGEAR DISTRIBUTION SECTION SWGR-12
SWITCHGEAR AUTOMATIC TRANSFER SWITCH ATS-10
MCC-LV-900
DESK & CHAIR, COMPUTER PC-058
POWER FACTOR CORRECTION BANK PFCB-30 (FUTURE)
P-500 (FUTURE)
P-400
P-300
P-200 (VFD)
P-100 (VFD)
KEYPAD HS-082A
ZS-082A
LCP-913A
IRRIGATION SYSTEM CONTROL PANEL VCP-940, DISCONNECT DS-941
ROLL-UP DOOR SWITCH ZS-082B (TYPICAL)
AIR TEMP RTD, 8' HEIGHT TE/TT-923 LCP-923
PUMP ROOM
E-206
CONDUITS FOR FUTURE (QTY PER SHEETS) (TYPICAL)
SPARE 1" CONDUIT (TYPICAL)
WELDER OUTLET ME-970, DISCONNECT DS-970
E-308
CONNECTION TO OVERHEAD CRANE RAIL (TYPICAL OF 4)
P-600 (FUTURE)
PSL/H-600B (FUTURE)
PSL/H-600A (FUTURE)
PSL/H-500B
PSL/H-500A
PSL/H-400B
PSL/H-400A
PSL/H-300B
PSL/H-300A
PSL/H-200B
PSL/H-200A
PSL/H-100B
PSL/H-100A
V-603 ZSC-603 ZSO-603 SV-600 (FUTURE
V-503 ZSC-503 ZSO-503 SV-500
V-403 ZSC-403 ZSO-403 SV-400
V-303 ZSC-303 ZSO-303 SV-300
V-203 ZSC-203 ZSO-203 SV-200
V-103 ZSC-103 ZSO-103 SV-100
V-702
V-703
PIT-706
PIT-705
SURGE CONTROL PANEL LCP-700
TRANS-FORMER T-903
EF-990 (CEILING)
EF-991 (CEILING)
EF-992 (CEILING)
D-1
D-2
D-3
D-4
D-5
D-6 ROOF
D-7 ROOF
D-8 (ROOF)
D-9
D-10
GENERATOR ROOM
P-924
#1/0 BC


MCC-LV-900
XFMR-10
(4kV-480/277VAC)
P-350, P-400, P-500
SOFT START CPs
(800HP, 4160VAC)
P-100,P-200 VFD CPs
(480VAC)
ATS-10/SWGR-12
MDS-1 MAIN DISCONNECT
12kV
PM-2
METER
XFMR-3
12kV-4160/2400VAC
CB4
4kV CIRCUIT BREAKER
XFMR-20
4kV-480/277VAC
GENERATOR

Clearview Infrastructure Updates

Clearview Reservoir

1. Implement active corrosion protection
2. Extend asset service life

Clearview Pipeline

1. Assessment status
2. System performance
3. Operational optimization

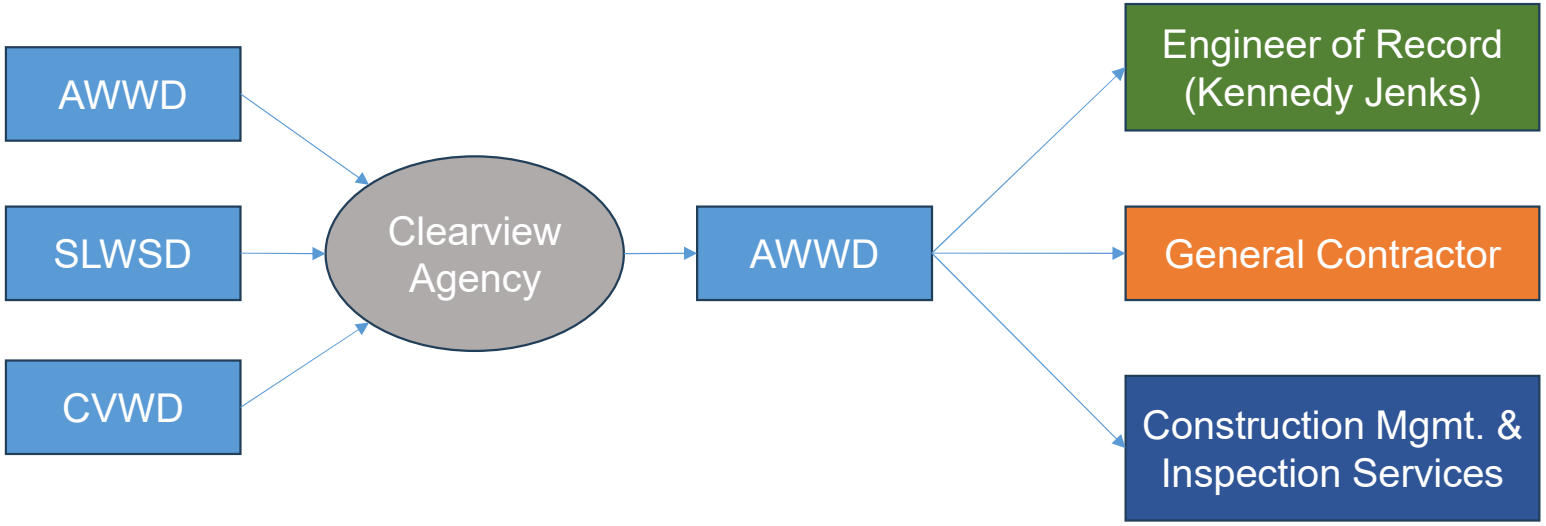
Recommended Contracting Strategy: GC/CM

Delivery Method: General Contractor/Construction Manager (GC/CM) per **RCW 39.10**

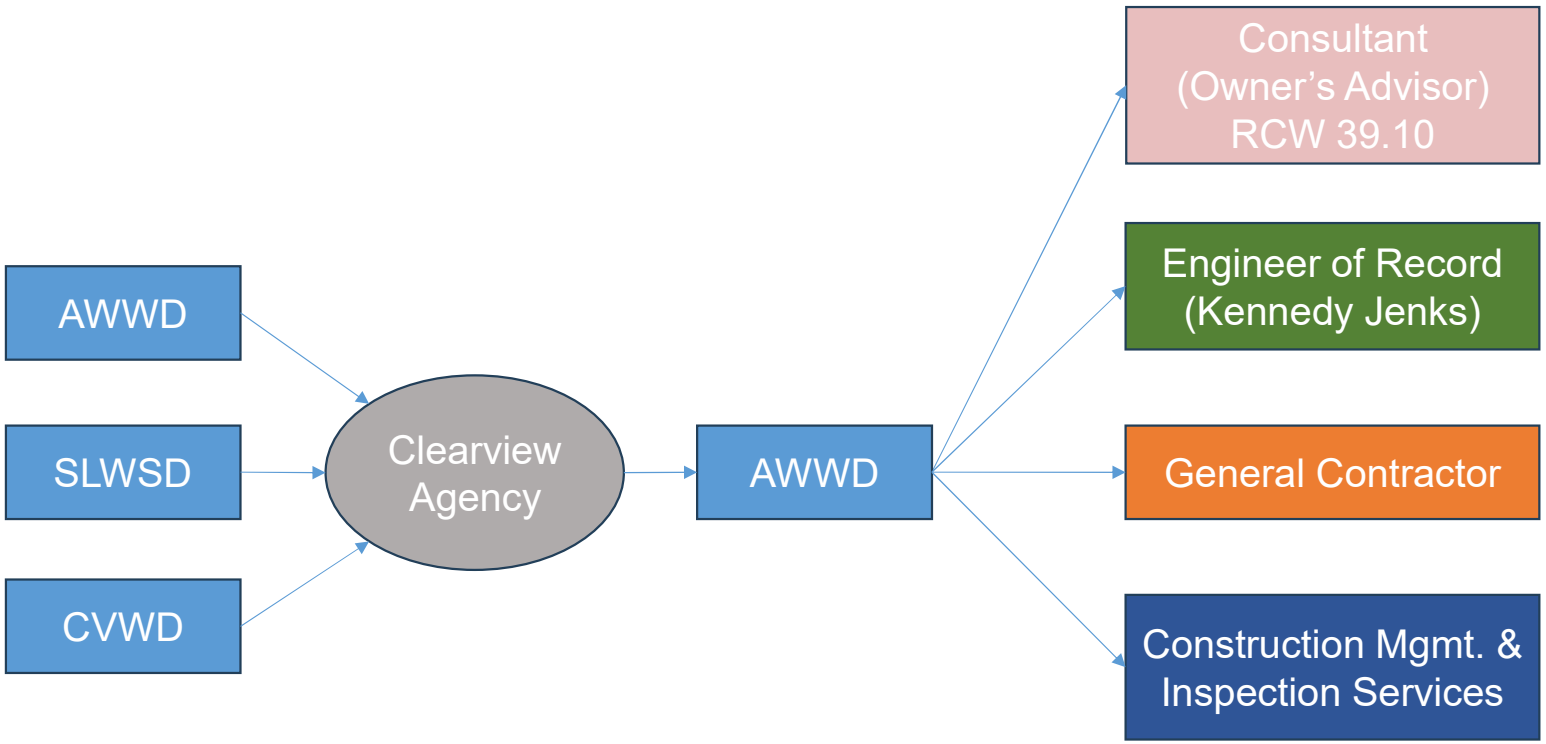
Reasons:

1. Mitigating procurement and schedule volatility
2. Vetted shutdown & execution planning
3. Integrated technical startup strategy
4. Qualifications-based risk management

Organizational Structure: Design-Bid-Build



Organizational Structure: GC/CM



Program Summary & Key Takeaways

Securing System Longevity:
- Modernize and protect critical infrastructure
- Provide years of reliable, 24/7/365 service

Proactive Risk Management:
- Utilize WA State-approved GC/CM contracting method (RCW 39.10)
- Actively manage risk throughout each project phase
- Protect schedule and budget to fulfill our commitment to our customers

Questions?

WA State Dept. of Enterprise Services

- **Design-Build & GC/CM Alternative Public Works Projects**

https://des.wa.gov/services/public-works/project-delivery-systems/design-build-gccm-alternative-public-works-projects

- **Project Review Committee (PRC)**

https://des.wa.gov/about/boards-committees-groups/project-review-committee-prc

Project Summary Report

KENNEDY JENKS

The Clearview Water Supply Agency (CWSA) and Kennedy Jenks (KJ) are currently on the Clearview Improvements Project, which will define, design, and construct needed improvements to the Clearview Pump Station. CWSA prepared a facility plan in 2023 which recommended several improvements to the pump station, including

- Intermediate pump
- Surge protection upgrades
- Valve replacements
- VFD Replacement and Transformer Relocation
- Generator and ATS Replacement

CWSA and KJ have been further evaluating these proposed improvements and issues identified by CWSA to define an improvements project meeting CWSA's goals for the facility. A condition assessment including testing of the facility has been performed. The recommendations from the Facility Plan have been further evaluated by CWSA, with an updated list of recommended improvements that includes

- Standby generator replacement. The existing generator has had ongoing maintenance issues, and parts availability has become a challenge as generator was not manufactured by an established U.S. manufacturer. Supplying a new generator with improve reliability and decrease. Relocating the unit outdoors will improve maintenance access and make additional space in the pump station available for other uses.

- Automatic transfer switch replacement. The existing transfer switch is unreliable and difficult to maintain. The switch was also not originally designed for regular use over a long period of time. A new U.L. listed transfer switch will eliminate reliability and maintenance concerns and will also address maintenance issues with the main circuit breaker serving the facility.

- Elimination of the 4160/480 transformer inside the pump station. The original pump station design did require the use of a 416/480 V transformer for the 400 hp variable speed pumps. The transformer was provided as part of a cost reduction effort but has been a facility that is more difficult to operate. The transformer takes up valuable space and increases heat rejection to the electrical room. Additionally, there is a resonance issue between the transformer and variable drives that can interfere with pump operation. Elimination of the transformer will improve reliability and provide space for other improvements.

- Replacement of existing two 400 hp 480 V variable speed drives with 4160 V drives. The existing 480 V drives are starting to show signs of age. Replacement of the variable speed drives with 4160 V drives will allow elimination of the 4160/480 V transformer described above, improving reliability and providing space for other improvements.

- Installation of a new 400 Hp variable speed pump. The Facility Plan considered adding a new pump with slightly more capacity than the two existing variable speed pumps. After discussion with staff and further evaluation it became apparent that providing a third

variable speed pump matching the two existing pumps provides additional redundancy and flexibility that was not provided by the larger fixed speed pump.

- Replacement of existing 400 hp 480 V pumps with new 4160 V pumps. The existing 400 hp variable speed pumps will require new motors and other potential modifications to operate on 4160 V. The existing pumps each have well over 100,000 hours of operation and one of the pump heads is showing signs of wear. The complete replacement of the pumps will allow the use of 4160 V motors and the elimination of the 4160/480 V transformer and provide pumps that are in good operating condition for the foreseeable future.

- Replacement of the 480 V motor control center. The 480 V motor control center is over 20 years old, and parts are becoming difficult to locate. The replacement of the motor control center will provide equipment that is in good operating condition and easy to maintain going forward.

- Replacement of the 4160 V motor starters. Similarly to the motor control center described previously, the motor starters are over 20 years old and replacement parts are becoming difficult to locate.

The improvements described above will improve the facility's ability to meet current and future demands, improve equipment redundancy and replace aging equipment that is difficult to maintain due to parts availability.

The CWSA project team has finished the alternatives process and is preparing to begin with Preliminary Design, which will include a report and 30% design documents. The current estimated costs for construction is $12,600,000, with a range of +50% to -30% based on AACE Level 4 accuracy.

The CWSA project team has evaluated delivery options and recommends the General Contractor/Construction Manager (GC/CM) approach, authorized under RCW 39.10. This delivery method allows early procurement of long-lead equipment, facilitates coordinated shutdown and startup planning among the engineer, agency, and GC/CM, and provides preconstruction support for risk identification, constructability review, and sequencing issues. CWSA and KJ both support pursuing this project delivery approach.

Final design is anticipated to be completed in the Spring of 2027, with construction taking 18 to 24 months.

Preliminary Construction Cost Estimate

KENNEDY JENKS

OPINION OF PROBABLE CONSTRUCTION COST **KENNEDY/JENKS CONSULTANTS**

Project: Alderwood Water District - Clearview Pump Station Improvements

Prepared By: JLH
Date Prepared: 1-Apr-26
K/J Proj. No.: 2497017*00

Location: Snohomish,WA

Estimate Type:
- [x] **Conceptual**
- [ ] **Preliminary (w/o plans)**
- [ ] **Design Development @ 100% Complete**
- [ ] **Construction**
- [ ] **Change Order**

Months to Midpoint of Construct 26

DIV. No.	ITEM DESCRIPTION			MATERIALS	INSTALLATION	EQUIPMENT	SUB-CONTRACTOR	TOTAL
1	General Requirements							
2	Demo / Existing Conditions							
3	Concrete							
4	Masonry							
5	Metals							
6	Wood & Plastics & Composites							
7	Thermal & Moisture Protection							
8	Openings							
9	Finishes							
10	Specialties							
11	Equipment							
12	Furnishings (Including Casework)							
13	Special Construction (including PreEngineered Metal Buildings/ Canopies/ Fabric Structures)							
21	Fire Protection							
22	Plumbing (Bolted/ Welded Steel Tanks)							
23	HVAC							
26	Electrical							
27	Communications							
28	Electronic Safety & Security							
31	Earthwork (Including Piles)							
32	Exterior Improvements (Paving / Curb/ Gutter/ Sidewalks/ Fencing & Gates)							
33	Utilities (Yard Piping)							
40M	Process Interconnections (Pipe/ Valves/ Gates/ Couplings/ Supports)							
40C	Process Interconnections: Controls (PLC /RTU/ Telemetry/SCADA/ Instrumentation)							
41	Material Processing & Handling Equipment (Bridge Cranes / Hoists)							
43	Process Gas & Liquid Handling, Purifation & Storage Equipment (Blowers/ Pumps/ Chemical Tanks)							
46	Water and Wastewater Process Equipment (including chemical feed pumps)							
	Subtotals			3,628,271	291,815	62,443	1,308,215	5,290,745
	Division 1 Costs	@	12%	435,393	35,018	7,493	156,986	634,889
	Subtotals			4,063,664	326,833	69,937	1,465,201	5,925,634
	Contractor Markup for Sub	@	15%				219,780	219,780
	Subtotals			4,063,664	326,833	69,937	1,684,981	6,145,414
	Contractor OH&P	@	18%	731,459	58,830	12,589		802,878
	Subtotals			4,795,123	385,662	82,525	1,684,981	6,948,292
	Bonds & Insurance	@	2.5%					173,707
	Subtotals							7,121,999
	Estimate Contingency	@	40%					2,848,800
	Subtotals							9,970,799
	Escalate to Midpt of Const. (per year)	@	5%					498,540
	Subtotals							10,469,339
	Sales Tax (WA)	@	9.3%					973,649
	Estimated Bid Cost (Not Rounded)							11,442,987
	Estimated Bid Cost							**11,443,000**
	Unforseen Costs During Construction	@	10.0%					1,144,300.00
	Total Construction Cost (Rounded)							**12,600,000**

Estimate Accuracy	
+50%	-30%

Estimated Range of Probable Cost		
+50%	Total Est.	-30%
$17,165,000	**$11,443,000**	**$8,010,000**

OPINION OF PROBABLE CONSTRUCTION COST

KENNEDY/JENKS CONSULTANTS

Client: Alderwood Water District
Project: Clearview Pump Station Improvements
Location: Snohomish, WA
Estimate Type: Conceptual

Prepared By: JLH
Date Prepared: 4/ / 2026
K/J Proj. No. 2497017*00

Area / Bldg	CSI Spec. Division			Description	Qty	Units	Materials $/Unit	Materials Total	Installation MH/ Unit	Installation MHRS	Installation Labor Rate	Installation $/Unit	Installation Total	Construction Equipment $/Unit	Construction Equipment Total	Sub-contractor $/Unit	Sub-contractor Total	Total
	2			**Existing Conditions/ Demolition/ Abandonment**														
				Demo Existing Generator Pad (Indoor)	180	SF						5.00	900					900
				Demo Existing Generator Radiator Pad (Outdoor)	34	SF						5.00	169					169
				Demo Existing ATS Pad (indoor)		SF						3.00						
				Demo Existing Transformer-10 Pad (in building)	26	SF						5.00	130					130
				Demo MCCs LV-900 and MCC MV-2 Pad in Building	25	SF						5.00	124					124
				Demo Existing VFD Pad in Builiding	33	SF						5.00	165					165
				Demo Existing Generator (indoor 1600 KW) with Silencer and Exhaust	1	LS			200.00		100	20,000.00	20,000	10,000.00	10,000			30,000
				Demo Existing Generator Radiator and Piping (Outdoor)	1	LS			40.00		100	4,000.00	4,000	2,000.00	2,000			6,000
	3			**Concrete**														
				Generator Equipment Slab - Assumes 2' thick	39	CY	600.00	23,467				800.00	31,289					54,756
				ATS Slab	2	CY	600.00	1,348				800.00	1,798					3,146
				New/ Modified Electrical Room Equipment Pads	2	CY	600.00	1,348				800.00	1,798					3,146
	5			**Metals**														
	7			**Thermal and Moisture Protection**														
	9			**Finishes**														
			Generator Ro	Misc Building Architectural Modifications for removal of generator and silencer	1	LS						5,000.00	5,000	2,500.00	2,500			7,500
			Generator Ro	Seal Gen Exhaust and Pipe Penetrations	3	EA	500.00	1,500				500.00	1,500					3,000
			Generator Ro	Misc Repainting	852	VSF										5	4,260	4,260
			Generator Ro	Floor Repairs	282	SF										10	2,820	2,820
			Electrical Roo	Misc Building Architectural Modifications (if needed)	1	LS	2,500.00	2,500				2,500.00	2,500					5,000
			Electrical Roo	Misc Repainting	1,176	VSF										5	5,880	5,880
			Electrical Roo	Floor Repairs	455	SF										10	4,550	4,550
	10			**Specialties**														
	26			**Electrical**														
				New Generator (1750KW Outdoor) with Sound Att Enclosure	1	EA	1,261,931.00	1,261,931			125			15,000.00	15,000	48,000	48,000	1,324,931
				Conduit/wire In Pump Station	1	LS										150,000	150,000	150,000
				Demo Existing ATS	1	EA										10,000	10,000	10,000
				ATS (Outdoor)	1	EA	200,000.00	200,000						4,000.00	4,000	36,000	36,000	240,000
				Ductbank (6) 6" Inc sch 40 PVC conduit/ trenching/ concrete/ bedding/ Backfill compaction	180	LF										309.28	55,670	55,670
				Ductbank (2) 6"	225	LF										115.71	26,035	26,035
				Demo Existing Transformer (located Indoors 4160V- 480V)	1	EA										50,000	50,000	50,000
				Demo Existing LV VFDs (400 HP Pumps)	2	EA										15,000	30,000	30,000
				New 400 HP MV VFD	3	Ea	300,000.00	900,000						6,000.00	18,000	129,000	387,000	1,305,000

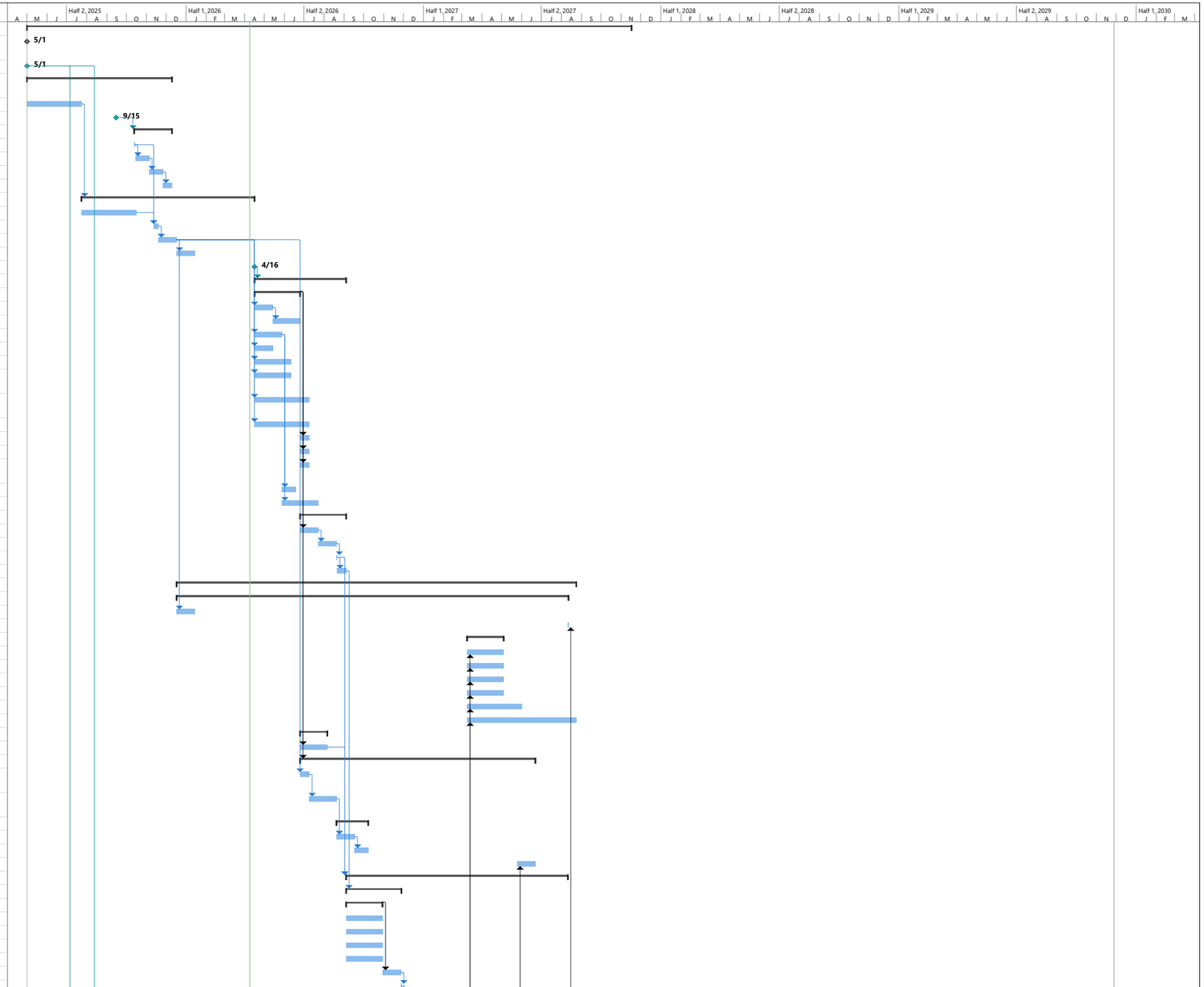
Area / Bldg	CSI Spec. Division			Description	Qty	Units	Materials		Installation					Construction Equipment		Sub-contractor		Total
							$/Unit	Total	MH/ Unit	MHRS	Labor Rate	$/Unit	Total	$/Unit	Total	$/Unit	Total	
				Demo LV MCC	5	EA										1,200	6,000	6,000
				Demo MCC	1	LS										5,000	5,000	5,000
				Replacement MCC LV-900 (In Kind)	1	LS	100,000.00	100,000						2,000.00	2,000	23,000	23,000	125,000
				Demo 800 HP Starter	3	EA												
				New 800 HP Starter (In Kind)	3	EA	100,000.00	300,000						2,000.00	6,000	23,000	69,000	375,000
	27			**Communications**														
	31			**Earthwork**														
				Earthwork/ Subgrade Prep for Generator Slab	528	SF	2.00	1,056				5.00	2,640	5.00	2,640			6,336
				Earthwork/ Subgrade Prep for ATS Slab	61	SF	2.00	121				5.00	303	5.00	303			728
	32			**Exterior Improvements**														
				Landscaping Removal / Restoration	1	LS										20,000	20,000	20,000
				Stormwater Improvements/ Modifications	1	LS										50,000	50,000	50,000
				Driveway/Misc Improvements	1	LS										75,000	75,000	75,000
	33			**Utilities**														
	40			**Process Piping**														
				Check Valve	1	EA	20,000.00	20,000				2,000.00	2,000					22,000
				Pump Control Valve	1	EA	30,000.00	30,000				5,000.00	5,000					35,000
				Pump Pipiing	1	LS	25,000.00	25,000				15,000.00	15,000					40,000
				Fuel System	1	LS	10,000.00	10,000				10,000.00	10,000					20,000
	40			**Process Interconnections: Controls (PLC /RTU/ Telemetry/SCADA/ Instrumentation)**														
				Allowance - recoonect/upgrade existing as needed	1	LS											150,000	150,000
	43			**Process Gas & Liquid Handling, Purifation & Storage Equipment (Blowers/ Pumps/ Chemical Tanks)**														
				New 400 HP Vertical Turbine Pump (for MV VFD)	3	Ea	250,000.00	750,000				62,500.00	187,500					937,500

Area / Bldg	CSI Spec. Division			Description	Qty	Units	Materials		Installation					Construction Equipment		Sub-contractor		Total
							$/Unit	Total	MH/ Unit	MHRS	Labor Rate	$/Unit	Total	$/Unit	Total	$/Unit	Total	
				Startup / Commisioning (per phase)	**1**	**EA**										**100,000**	100,000	100,000
	Grand Total							$ 3,628,271					$ 291,815		$ 62,443		$ 1,308,215	$ 5,290,745

Preliminary Project Schedule

KENNEDY JENKS

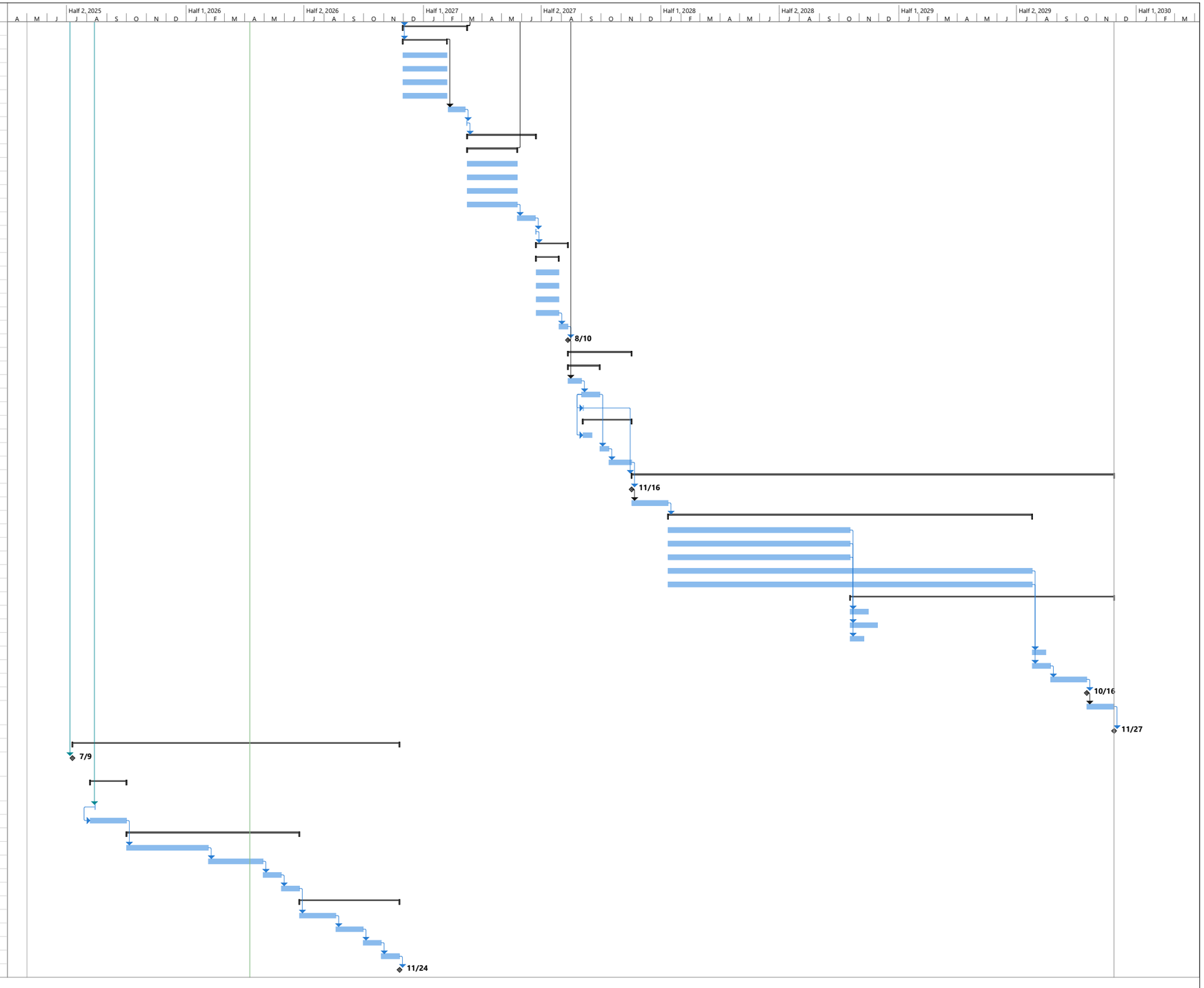
ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
1		**Phase 1: Pump Station Improvements**	**664d**	**Thu 5/1/25**	**Tue 11/16/27**	
2		**Task 100: Project Administration and Coordination**	**0d**	**Thu 5/1/25**	**Thu 5/1/25**	
3		Notice to Proceed	0d	**Thu 5/1/25**	Thu 5/1/25	
4		**Task 110: Existing Conditions and Data Collection**	**159d**	**Thu 5/1/25**	**Tue 12/9/25**	
5		110.2 Review Background Information	60d	Thu 5/1/25	Wed 7/23/25	
6		110.1 Kickoff Meeting	0d	Mon 9/15/25	Mon 9/15/25	
7		**110.3 Condition Assessment**	**42d**	**Mon 10/13/25**	**Tue 12/9/25**	**6FS+5d**
8		Site visit	1d	Mon 10/13/25	Mon 10/13/25	
9		Draft Tech memo	15d	Wed 10/15/25	Tue 11/4/25	8
10		AWWD Review	15d	Wed 11/5/25	Tue 11/25/25	9
11		Final Tech Memo	10d	Wed 11/26/25	Tue 12/9/25	10
12		**Task 120 Conceptual Design Alternatives**	**190d**	**Thu 7/24/25**	**Thu 4/16/26**	**5**
13		Alternatives Analysis	60d	Thu 7/24/25	Wed 10/15/25	
14		Workshop	5d	Wed 11/12/25	Tue 11/18/25	13,8
15		AWWD Review and decision	20d	Wed 11/19/25	Tue 12/16/25	14
16		Final Report	20d	Wed 12/17/25	Tue 1/13/26	15
17		Board Approval	0d	Thu 4/16/26	Thu 4/16/26	
18		**Task 130 Pre-Design**	**101d**	**Thu 4/16/26**	**Thu 9/3/26**	**17**
19		**130.1 Pump Station Pre-Design**	**50d**	**Thu 4/16/26**	**Wed 6/24/26**	
20		Pumping Capacity and Hydraulics	20d	Thu 4/16/26	Wed 5/13/26	15
21		Surge Analysis (sub)	30d	Thu 5/14/26	Wed 6/24/26	20
22		Equipment Selections and Layout	30d	Thu 4/16/26	Wed 5/27/26	15
23		Site Layout	20d	Thu 4/16/26	Wed 5/13/26	15
24		Electrical Requirements	40d	Thu 4/16/26	Wed 6/10/26	15
25		Instrumentation and Control Requirements	40d	Thu 4/16/26	Wed 6/10/26	15
26		130.2 Permitting and Environmental Requirements	60d	Thu 4/16/26	Wed 7/8/26	15
27		130.3 Agency Coordination	60d	Thu 4/16/26	Wed 7/8/26	15
28		130.4 Construction Costs	10d	Thu 6/25/26	Wed 7/8/26	19
29		130.5 Project Schedule	10d	Thu 6/25/26	Wed 7/8/26	19
30		130.6 Construction Methods and Sequencing	10d	Thu 6/25/26	Wed 7/8/26	19
31		130.7 Geotechnical Review	15d	Thu 5/28/26	Wed 6/17/26	22
32		Noise study	40d	Thu 5/28/26	Wed 7/22/26	22
33		130.8 Pre-Design Report	**51d**	**Thu 6/25/26**	**Thu 9/3/26**	
34		Draft Report	20d	Thu 6/25/26	Wed 7/22/26	19
35		AWWD review	20d	Thu 7/23/26	Wed 8/19/26	34
36		Review meeting	1d	Thu 8/20/26	Thu 8/20/26	35
37		Final Report	10d	Fri 8/21/26	Thu 9/3/26	36
38		**Task 140 Environmental and Permitting**	**439d**	**Wed 12/17/25**	**Mon 8/23/27**	
39		**140.1 Permit Management Plan**	**431d**	**Wed 12/17/25**	**Wed 8/11/27**	
40		Initial Plan	20d	Wed 12/17/25	Tue 1/13/26	15
41		Final Plan	1d	Wed 8/11/27	Wed 8/11/27	90
42		**140.2 Prepare Permit Applications**	**40d**	**Tue 3/9/27**	**Mon 5/3/27**	
43		Building Permit	40d	Tue 3/9/27	Mon 5/3/27	67
44		Land Use	40d	Tue 3/9/27	Mon 5/3/27	67
45		Conditional Use	40d	Tue 3/9/27	Mon 5/3/27	67
46		Stormwater Site Plan	40d	Tue 3/9/27	Mon 5/3/27	67
47		140.3 Permit Meetings	60d	Tue 3/9/27	Mon 5/31/27	67
48		140.4 Other Permitting Assistance	120d	Tue 3/9/27	Mon 8/23/27	67
49		**Task 141 Survey and Utility Locates**	**30d**	**Thu 6/25/26**	**Wed 8/5/26**	
50		Survey	30d	Thu 6/25/26	Wed 8/5/26	19
51		**Task 142 Geotechnical Investigation**	**258d**	**Thu 6/25/26**	**Mon 6/21/27**	**19**
52		142.1 Geotechnical Exploration Planning and Site Visit	10d	Thu 6/25/26	Wed 7/8/26	15
53		142.2 Geotechnical Exploration/Analysis	30d	Thu 7/9/26	Wed 8/19/26	52
54		**142.3 Geotechnical Engineering Report**	**35d**	**Thu 8/20/26**	**Wed 10/7/26**	
55		Draft Report	20d	Thu 8/20/26	Wed 9/16/26	53
56		Final Report	15d	Thu 9/17/26	Wed 10/7/26	55
57		142.4 Plan and Specification Review	20d	Tue 5/25/27	Mon 6/21/27	76
58		**Task 150: Design Services**	**243d**	**Fri 9/4/26**	**Tue 8/10/27**	50,36
59		**30% Design**	**61d**	**Fri 9/4/26**	**Fri 11/27/26**	**37**
60		**30% Design Docs**	**40d**	**Fri 9/4/26**	**Thu 10/29/26**	
61		150.1 Plans	40d	Fri 9/4/26	Thu 10/29/26	
62		150.2 Specifications	40d	Fri 9/4/26	Thu 10/29/26	
63		150.3 OPCC	40d	Fri 9/4/26	Thu 10/29/26	
64		150.4 Schedule	40d	Fri 9/4/26	Thu 10/29/26	
65		AWWD Review	20d	Fri 10/30/26	Thu 11/26/26	60
66		Review meeting	1d	Fri 11/27/26	Fri 11/27/26	65



Project: ClearviewSched4
Date: Thu 4/9/26

Task | Milestone | Project Summary | Inactive Milestone | Manual Task | Manual Summary Rollup | Start-only | External Tasks | Deadline | Manual Progress
Split | Summary | Inactive Task | Inactive Summary | Duration-only | Manual Summary | Finish-only | External Milestone | Progress

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
67		**60% Design**	**71d**	**Mon 11/30/26**	**Mon 3/8/27**	**66**
68		**60% Design Docs**	**50d**	**Mon 11/30/26**	**Fri 2/5/27**	**66**
69		150.1 Plans	50d	Mon 11/30/26	Fri 2/5/27	
70		150.2 Specifications	50d	Mon 11/30/26	Fri 2/5/27	
71		150.3 OPCC	50d	Mon 11/30/26	Fri 2/5/27	
72		150.4 Schedule	50d	Mon 11/30/26	Fri 2/5/27	
73		AWWD Review	20d	Mon 2/8/27	Fri 3/5/27	68
74		Review meeting	1d	Mon 3/8/27	Mon 3/8/27	73
75		**90% Design**	**76d**	**Tue 3/9/27**	**Tue 6/22/27**	**74**
76		**90% Design Docs**	**55d**	**Tue 3/9/27**	**Mon 5/24/27**	
77		150.1 Plans	55d	Tue 3/9/27	Mon 5/24/27	
78		150.2 Specifications	55d	Tue 3/9/27	Mon 5/24/27	
79		150.3 OPCC	55d	Tue 3/9/27	Mon 5/24/27	
80		150.4 Schedule	55d	Tue 3/9/27	Mon 5/24/27	
81		AWWD Review	20d	Tue 5/25/27	Mon 6/21/27	80
82		Review meeting	1d	Tue 6/22/27	Tue 6/22/27	81
83		**100% Design**	**35d**	**Wed 6/23/27**	**Tue 8/10/27**	**82**
84		**100% Design Docs**	**25d**	**Wed 6/23/27**	**Tue 7/27/27**	
85		150.1 Plans	25d	Wed 6/23/27	Tue 7/27/27	
86		150.2 Specifications	25d	Wed 6/23/27	Tue 7/27/27	
87		150.3 OPCC	25d	Wed 6/23/27	Tue 7/27/27	
88		150.4 Schedule	25d	Wed 6/23/27	Tue 7/27/27	
89		AWWD Review	10d	Wed 7/28/27	Tue 8/10/27	88
90		Design Complete	0d	Tue 8/10/27	Tue 8/10/27	89
91		**Task 160 Advertisement and Bid Services**	**70d**	**Wed 8/11/27**	**Tue 11/16/27**	
92		**Task 160.1 Prebid Assistance**	**35d**	**Wed 8/11/27**	**Tue 9/28/27**	
93		Prepare bid documents	15d	Wed 8/11/27	Tue 8/31/27	90
94		Invitation to Bid	20d	Wed 9/1/27	Tue 9/28/27	93
95		Prebid conference	1d	Fri 9/3/27	Fri 9/3/27	94SS+2d
96		**Task 160.2 Bid Evaluation**	**53d**	**Fri 9/3/27**	**Tue 11/16/27**	
97		Bid questions and addenda	10d	Fri 9/3/27	Thu 9/16/27	94SS+2d
98		Bid opening/bidder evaluation	10d	Wed 9/29/27	Tue 10/12/27	94
99		Board approval/award	25d	Wed 10/13/27	Tue 11/16/27	98
100		**Task 170 Construction Support**	**530d**	**Tue 11/16/27**	**Tue 11/27/29**	**95**
101		NTP	0d	Tue 11/16/27	Tue 11/16/27	99
102		Submittals	40d	Wed 11/17/27	Tue 1/11/28	101
103		**Procurement**	**400d**	**Wed 1/12/28**	**Tue 7/24/29**	**102**
104		Pump	200d	Wed 1/12/28	Tue 10/17/28	
105		Valves	200d	Wed 1/12/28	Tue 10/17/28	
106		VFD	200d	Wed 1/12/28	Tue 10/17/28	
107		Transformer	400d	Wed 1/12/28	Tue 7/24/29	
108		Generator	400d	Wed 1/12/28	Tue 7/24/29	
109		**Construction**	**290d**	**Wed 10/18/28**	**Tue 11/27/29**	
110		Pump	20d	Wed 10/18/28	Tue 11/14/28	104
111		Valves	30d	Wed 10/18/28	Tue 11/28/28	105
112		VFD's	15d	Wed 10/18/28	Tue 11/7/28	106
113		Transformer	15d	Wed 7/25/29	Tue 8/14/29	107
114		Generator	20d	Wed 7/25/29	Tue 8/21/29	108
115		Closeout	40d	Wed 8/22/29	Tue 10/16/29	114
116		Construction Complete	0d	Tue 10/16/29	Tue 10/16/29	115
117		Post Construction (Record Drawings, etc)	30d	Wed 10/17/29	Tue 11/27/29	116
118		Phase 1 Project Complete	0d	Tue 11/27/29	Tue 11/27/29	117
119		**Phase 2: Pipeline Improvements**	**359d**	**Wed 7/9/25**	**Tue 11/24/26**	
120		**Task 200: Project Administration and Coordination**	0d	Wed 7/9/25	Wed 7/9/25	3FS+50d
121		**Task 210 Existing Conditions and Data Collection**	**40d**	**Wed 8/6/25**	**Tue 9/30/25**	
122		210.1 Kickoff Meeting	1d	Wed 8/13/25	Wed 8/13/25	3FS+70d
123		210.2 Information Review	40d	Wed 8/6/25	Tue 9/30/25	122SS-5d
124		**Task 220 Corrosion Protection Assessment**	**190d**	**Wed 10/1/25**	**Tue 6/23/26**	
125		Field Work	90d	Wed 10/1/25	Tue 2/3/26	123
126		Draft Report	60d	Wed 2/4/26	Tue 4/28/26	125
127		AWWD Review	20d	Wed 4/29/26	Tue 5/26/26	126
128		Final Report	20d	Wed 5/27/26	Tue 6/23/26	127
129		**Task 230 Air Valve Assessment**	**110d**	**Wed 6/24/26**	**Tue 11/24/26**	
130		Field Work	40d	Wed 6/24/26	Tue 8/18/26	128
131		Draft Report	30d	Wed 8/19/26	Tue 9/29/26	130
132		AWWD Review	20d	Wed 9/30/26	Tue 10/27/26	131
133		Final Report	20d	Wed 10/28/26	Tue 11/24/26	132
134		Phase 2 Complete	0d	Tue 11/24/26	Tue 11/24/26	133



Project: ClearviewSched4
Date: Thu 4/9/26

Task | Split | Milestone | Summary | Project Summary | Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start-only | Finish-only | External Tasks | External Milestone | Deadline | Progress | Manual Progress

Preliminary Design

KENNEDY JENKS

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ABBREVIATIONS

'	FOOT, FEET
"	INCH, INCHES
#	NUMBER
%	PERCENT
&	AND
@	AT
±	APPROXIMATELY
<	LESS THAN
=	EQUALS
>	GREATER THAN
A	AMPERE(-S)
A/C	AIR CONDITIONING
A/D	ANALOG TO DIGITAL
A/M	AUTO/MANUAL
ABAN(-D)	ABANDON(-ED)
AC	ALTERNATING CURRENT
AF	AMPERE FRAME
AFCI	ARC-FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AI	ANALOG INPUT
AIC	AMPERES INTERRUPTING CAPACITY
ANN	ANNUNCIATOR
ANT	ANTENNA
AO	ANALOG OUTPUT
APPROX	APPROXIMATE(-LY)
ARCH	ARCHITECT(-URAL)
AS	AMMETER SWITCH
ASD	ADJUSTABLE SPEED DRIVE (DC)
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAGE
BATT	BATTERY
BC	BARE COPPER
BKR	BREAKER
C	CONDUCTOR, CONTACT
C/S	CONSTANT SPEED
CAB	CABINET
CALC(S)	CALCULATION(S)
CAT	CATEGORY
CB	CATCH BASIN
CCTV	CLOSED-CIRCUIT TELEVISION
CHEM	CHEMI(-CAL, -STRY)
CID1	CLASSIFICATION I, DIVISION 1
CID2	CLASSIFICATION I, DIVISION 2
CKT	CIRCUIT
CLR	CLEAR(-ANCE)
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CO	CONDUIT ONLY
COAX	COAXIAL
COM	COMMON
COMM	COMMUNICATION
COND	CONDUIT
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY
CT	CURRENT TRANSFORMER
CTRL	CONTROL
CU IN	CUBIC INCH(-ES)
DC	DIRECT CURRENT
DCS	DISTRIBUTED CONTROL SYSTEM
DEG	DEGREE(-S)
DEG C	DEGREES CELSIUS
DEG F	DEGREES FARENHEIT
DEMO	DEMOLISH
DI	DISCRETE INPUT
DIA	DIAMETER
DIAG	DIAGRAM
DISC	DISCONNECT
DISTR	DISTRIBUTION
DO	DISCRETE OUTPUT
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
DR	DOOR
DTL(-S)	DETAIL(-S)
DUP	DUPLEX
EFFIC	EFFICIENCY
EFFL	EFFLUENT
ELEC	ELECTRIC(-AL)
ELEM	ELEMENTARY
EMERG	EMERGENCY
ENCL	ENCLOSURE
ENET	ETHERNET
ENGR	ENGINEER
EPA	ENVIRONMENTAL PROTECTION AGENCY
EQPM	EQUIPMENT
EST	ESTIMATE(-D)
E-STOP	EMERGENCY STOP
ETC	ET CETERA
ETM	ELAPSED TIME METER
EUSERC	ELECTRIC UTILITY SERVICE EQUIPMENT REQUIREMENTS COMMITTEE
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERNAL
FA	FIRE ALARM
FACIL	FACILIT(-Y, -IES)
FDR	FEEDER
FIG	FIGURE
FLA	FULL LOAD AMPERES
FLEX	FLEXIBLE
FO	FIBER OPTIC
FREQ	FREQUENCY
FT	FOOT, FEET
FU	FUSE
FUT	FUTURE
FVNR	FULL VOLTAGE, NON REVERSING
FVR	FULL VOLTAGE, REVERSING
FWD	FORWARD
G	GROUND (ELECTRICAL)
GAC	GRANULAR ACTIVATED CARBON
GAL	GALLON(-S)
GFCI	GROUND-FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRS	GALVANIZED RIGID STEEL
H	HIGH, HEIGHT
HD	HEAT DETECTOR
HDPE	HIGH DENSITY POLYETHYLENE
HGR	HANGER
HH	HANDHOLE
HMI	HUMAN MACHINE INTERFACE
HOA	HAND-OFF-AUTOMATIC
HOR	HAND-OFF-REMOTE
HP	HORSEPOWER
HR(S)	HOUR(-S)
HTR	HEATER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HZ	HERTZ (CYCLES PER SECOND)
I&C	INSTRUMENTATION AND CONTROL
I/O	INPUT/OUTPUT
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IL	INDICATING LIGHT
IN	INCH(-ES)
INST	INSTANTANEOUS
INSTR	INSTRUMENT(-ATION)
IP	INTERNET PROTOCOL
IR	INFRARED
IS	INTRINSICALLY SAFE
ISA	INTERNATIONAL SOCIETY OF AUTOMATION
ISO	ISOLAT(-E, -ION)
ISR	INTRINSICALLY SAFE RELAY
JB	JUNCTION BOX
KA	KILOAMPERE(-S)
KCMIL	THOUSANDS OF CIRCULAR MILS
KHZ	KILOHERTZ
KV	KILOVOLT(-S)
KVA	KILOVOLT-AMPERE(-S)
KVAR	KILOVOLT-AMPERE(-S) REACTIVE
KVARH	KILOVOLT-AMPERE REACTIVE HOUR(-S)
KW	KILOWATT(-S)
KWH	KILOWATT HOUR(-S)
L	LENGTH, LINE
LA	LIGHTNING ARRESTER
LAN	LOCAL AREA NETWORK
LB(-S)	POUND(-S)
LCP	LOCAL CONTROL PANEL
LCS	LOCAL CONTROL STATION
LEL	LOWER EXPLOSIVE LIMIT
LOC	LOCATION
LOR	LOCAL-OFF-REMOTE
LOTO	LOCK-OUT, TAG-OUT
LP	LIGHTING PANELBOARD
L-R	LOCAL-REMOTE
LS	LIMIT SWITCH
LT	LIGHT
LTG	LIGHTING
LV	LOW VOLTAGE
mA	MILLIAMPERE(-S)
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MHZ	MEGAHERTZ
MIL(-S)	ONE-THOUSANDTH OF AN INCH
MIN	MINIMUM, MINUTE(-S)
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MM	MULTIMODE
MOCP	MAXIMUM OVERCURRENT PROTECTION
MOD(-S)	MODIF(-Y, -ICATIONS)
MOV	MOTOR OPERATED VALVE
MT(-D, -G)	MOUNT(-ED, -ING)
MTR	MOTOR
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
N	NORTH, NEUTRAL
N/A	NOT APPLICABLE
NAOCL	SODIUM HYPOCHLORITE
NAOH	SODIUM HYDROXIDE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE (NFPA 70)
NECA	NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NETA	INTERNATIONAL ELECTRICAL TESTING ASSOCIATION
NFC	NOT FOR CONSTRUCTION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NH3	AMMONIA
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN, NUMBER
NORM	NORMAL
NTS	NOT TO SCALE
O/C	OPEN/CLOSE
O3	OZONE
ODP	OPEN DRIP PROOF
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OIT	OPERATOR INTERFACE TERMINAL
OL	THERMAL OVERLOAD RELAY
ORIG	ORIGINAL
OSC	OPEN/STOP/CLOSE
OT	OVER TEMPERATURE
P	POLE
PA	PUBLIC ADDRESS
PB	PULLBOX, PUSHBUTTON
PC(-S)	PIECE(-S), PHOTOCELL
PCC	POINT OF COMMON COUPLING
PE	PHOTOELECTRIC
PF	POWER FACTOR
PFR	POWER FACTOR RELAY
PH	PHASE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PM	POWER MONITOR
PNL	PANEL
PNLBD	PANELBOARD
POE	POWER OVER ETHERNET
PP	POWER POLE
PRI	PRIMARY
PRV	PRESSURE RELIEF VALVE, PRESSURE REDUCING VALVE
PS	POWER SUPPLY
PT(-S)	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
R, RAD	RADIUS
RCPT	RECEPTACLE
RCT	REPEAT CYCLE TIMER
RIO	REMOTE INPUT/OUTPUT
RM	ROOM
RMT	REMOTE
RPM	REVOLUTIONS PER MINUTE
RST	RESET
RT	RESET TIMER
RTU	REMOTE TELEMETRY UNIT
RVSS	REDUCED VOLTAGE, SOLID STATE
S/S	START/STOP
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
SCR	SILICON CONTROLLED RECTIFIER
SD	SMOKE DETECTOR
SEC	SECONDARY
SER	SERVICE ENTRANCE RATED
SGNL	SIGNAL
(SH)	SHIELDED
SHT	SHEET
SM	SINGLEMODE
SP	SET POINT
SPD	SURGE PROTECTIVE DEVICE
SPDT	SINGLE POLE, DOUBLE THROW
SPEC(-S)	SPECIFICATION(-S)
SS	STAINLESS STEEL, SOLID STATE
STB	SHORTING TERMINAL BLOCK
STD(-S)	STANDARD(-S)
STL	STEEL
STP	SHIELDED TWISTED PAIR
STRC	STRUCTUR(-E, -AL)
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYNC	SYNCHRONIZING
T	TIME(-R)
TB	TERMINAL BLOCK
TC	TRAY CABLE
TCP	TRANSMISSION CONTROL PROTOCOL
TEFC	TOTALLY ENCLOSED FAN COOLED
TEL	TELEPHONE
TEMP	TEMPERATURE, TEMPORARY
TENV	TOTALLY ENCLOSED NON-VENTILATED
THRU	THROUGH
TOT	TOTAL, TOTALIZE(R)
TSTAT	THERMOSTAT
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UNKN	UNKNOWN
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
UV	ULTRAVIOLET
V	VOLTS
V/S	VARIABLE SPEED
VA	VOLT-AMPERES
VAR	VARIES, VARIABLE, VOLT-AMPERES REACTIVE
VCP	VENDOR CONTROL PANEL
VFD	VARIABLE FREQUENCY DRIVE (AC)
VFI	VACUUM FAULT INTERRUPTER
VS	VOLTMETER SWITCH
W	WIDE, WIDTH, WIRE, WATTS, WEST
W/	WITH
W/O	WITHOUT
WAN	WIDE AREA NETWORK
WHDM	WATT-HOUR DEMAND METER
WHM	WATT-HOUR METER
WP	WEATHERPROOF, WEATHER PROTECTED
WR	WEATHER RESISTANT
WTP	WATER TREATMENT PLANT
WTR	WATER
WW	WASTEWATER
WWTP	WASTEWATER TREATMENT PLANT
XFMR	TRANSFORMER
XP	EXPLOSION PROOF

ELECTRICAL NOTES

1. THIS IS A GENERALIZED LEGEND SHEET. THIS CONTRACT MAY NOT USE ALL INFORMATION SHOWN.
2. THE INSTALLATION OF ALL EQUIPMENT, RACEWAYS, CONDUCTORS, AND CABLES SHOWN ON THESE DRAWINGS OR DESCRIBED IN THE SPECIFICATIONS SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES AND UTILITY COMPANY STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANY AND VERIFY THEIR REQUIREMENTS.
3. ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING THE PROJECT TO VERIFY THE SCOPE OF WORK WITH FIELD CONDITIONS. PARTICULAR ATTENTION SHOULD BE GIVEN TO NEW CONDUIT RUNS IN EXISTING BUILDINGS.
4. NOTIFY THE ENGINEER IMMEDIATELY IN WRITING IF CONFLICTS IN EQUIPMENT LOCATIONS ARE DISCOVERED OR IF PROBLEMS ARISE DUE TO FIELD CONDITIONS, LACK OF INFORMATION OR ANY OTHER REASON. NO PAYMENT WILL BE MADE FOR CHANGES WHICH HAVE NOT BEEN FAVORABLY REVIEWED BY THE ENGINEER.
5. CONDUIT ROUTING SHOWN ON PLAN DRAWINGS IS DIAGRAMMATIC ONLY. RACEWAYS SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT OR STRUCTURAL CONDITIONS. EXPOSED RACEWAYS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BEAMS AND WALLS. REFER ALSO TO THE CONTRACT SPECIFICATIONS.
6. VERIFY THE EXACT LOCATION OF TERMINAL BOXES AND CONDUIT ENTRANCES TO ALL EQUIPMENT AGAINST APPROVED SHOP DRAWINGS BEFORE STUBBING UP CONDUITS. CONDUIT STUB-UPS SHALL NOT BE MORE THAN 6 INCHES FROM THE CENTERLINE OF TERMINAL BOXES.
7. CONNECTIONS BETWEEN RIGID CONDUIT AND MOTOR TERMINAL BOXES OR SIMILAR EQUIPMENT SUBJECT TO VIBRATION SHALL BE FLEXIBLE LIQUID-TIGHT CONDUIT.
8. CONDUITS SHALL BE TERMINATED SO AS TO PERMIT NEAT CONNECTION TO MOTORS AND OTHER EQUIPMENT.
9. CONDUITS FOR FUTURE EQUIPMENT OR EXTENSIONS SHALL BE TERMINATED AS SHOWN IN THE DETAILS OR AS SPECIFIED.
10. LOCATIONS OF PULLBOXES ARE APPROXIMATE. COORDINATE EXACT LOCATION IN THE FIELD TO ENSURE 6 INCHES (MINIMUM) CLEARANCE FROM MECHANICAL PIPING FLOW LINES.
11. ONLY MAJOR PULLBOXES ARE SHOWN. PROVIDE ADDITIONAL PULLBOXES WHERE REQUIRED TO MAKE A WORKABLE INSTALLATION.
12. PERFORM WORK IN ACCORDANCE WITH THE DETAILS WHETHER OR NOT THEY ARE REFERENCED ON THE DRAWINGS.
13. VERIFY ALL COLOR REQUIREMENTS BEFORE ORDERING MATERIALS.
14. THE WIRING DIAGRAMS, QUANTITY AND SIZE OF WIRES AND CONDUIT REPRESENT A SUGGESTED ARRANGEMENT BASED UPON SELECTED STANDARD COMPONENTS OF ELECTRICAL EQUIPMENT. MODIFICATIONS ACCEPTABLE TO THE ENGINEER MAY BE MADE BY THE CONTRACTOR TO ACCOMMODATE EQUIPMENT ACTUALLY PURCHASED. THE BASIC SEQUENCE AND METHOD OF CONTROL MUST BE MAINTAINED AS INDICATED ON THE DRAWINGS AND/OR SPECIFICATIONS.
15. REFER TO THE MECHANICAL DRAWINGS FOR CERTAIN CONTROL DIAGRAMS, EXACT LOCATIONS OF MECHANICAL EQUIPMENT, AND FOR CERTAIN CONNECTIONS TO BE MADE TO ELECTRICAL CIRCUITS.
16. CONDUIT SIZE AND FILL SHALL BE AS INDICATED ON THE CONDUIT AND CABLE SCHEDULES. WHERE NO SIZE IS SHOWN, THE CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED BY THE AUTHORITY HAVING JURISDICTION. MINIMUM CONDUIT SIZE IS 3/4 INCH, EXCEPT WHERE ENCASED OR BURIED. MINIMUM ENCASED OR BURIED CONDUIT SIZE IS 1 INCH.
17. PROVIDE EXPANSION OR EXPANSION AND DEFLECTION FITTINGS FOR ALL CONDUIT RUNS CROSSING EXPANSION JOINTS. REFER TO THE STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION JOINTS.
18. PROVIDE 3/16 INCH NYLON PULL ROPE IN EACH EMPTY CONDUIT.
19. FOR LIGHTING AND RECEPTACLE SYSTEMS, ONLY CIRCUIT NUMBERS ARE SHOWN. PROVIDE ALL NECESSARY CONDUITS, WIRES, FITTINGS, JUNCTION BOXES AND NECESSARY COMPONENTS SHOWN OR NOT SHOWN ON THE DRAWINGS, TO MAKE THE ELECTRICAL INSTALLATION COMPLETE AND OPERATIONAL. SIZE CONDUITS AND WIRING IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. ALL CONDUIT RUNS SHALL BE CONCEALED UNLESS INDICATED OTHERWISE. CIRCUIT LOADING SHALL BE AS INDICATED IN THE PANEL SCHEDULES. ALL LIGHTING AND RECEPTACLE CIRCUITS SHALL INCLUDE GROUND WIRE.
20. MOUNT LUMINAIRES ACCORDING TO THE MOUNTING HEIGHT GIVEN ON THE DRAWINGS, WITH THE DISTANCE BEING MEASURED FROM THE BOTTOM OF THE LUMINAIRE TO THE FINISHED FLOOR. PROVIDE APPROPRIATE BRACKETS AND HARDWARE FOR MOUNTING.
21. ALL RECEPTACLES IN OUTDOOR AND ANTICIPATED WET AREAS SHALL BE GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES WITH WEATHERPROOF WHILE IN-USE COVERS.
22. ALL FREE STANDING ELECTRICAL EQUIPMENT AND CONTROL PANELS SHALL BE SET ON CONCRETE HOUSEKEEPING PADS WITH LEVELING CHANNELS EMBEDDED IN THE PAD.
23. ALL PANELBOARDS SHALL BE MOUNTED SO THAT THE DISTANCE FROM THE CENTERLINE OF THE TOP CIRCUIT BREAKER OPERATING HANDLE IN THE UPPERMOST POSITION TO THE FINISHED FLOOR SHALL NOT EXCEED 6'-7".
24. ALL SURFACE MOUNTED PANELS AND PANELBOARDS ON THE INTERIOR OF EXTERIOR WALLS ABOVE GRADE OR IN OTHER LOCATIONS CONSIDERED DAMP OR WET SHALL BE MOUNTED SO AS TO MAINTAIN A 1/4 INCH (MINIMUM) AIR SPACE BETWEEN THE ENCLOSURE AND THE WALL.
25. PROVIDE LOCKOUTS IN STRICT ACCORDANCE WITH OWNER'S REQUIREMENTS.
26. REFER TO THE SINGLE LINE DIAGRAMS, EQUIPMENT ELEVATIONS, PANELBOARD SCHEDULES, AND COMPONENT/DEVICE LABELS IN THE CONTROL SCHEMATICS FOR NAMEPLATE INFORMATION. SEE THE CONTRACT SPECIFICATIONS FOR NAMEPLATE SIZE, COLOR, MATERIAL, AND PLACEMENT REQUIREMENTS.
27. "NORMAL" STATUS OF SWITCHES OR CONTACTS SHOWN IN CONTROL SCHEMATICS IS THE SHELF POSITION.

ELECTRICAL DEMOLITION NOTES

1. BIDDING CONTRACTORS SHALL VISIT THE SITE TO ASSESS THE SCOPE OF DEMOLITION, REMOVAL AND MODIFICATION WORK.
2. ELECTRICAL CONTRACTOR AND THE OWNER SHALL DE-ENERGIZE ALL WIRING PRIOR TO REMOVAL OF EQUIPMENT, DEVICES, MOTORS INSTRUMENTATION, CONTROL PANELS, ETC. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM THE OWNER.
3. EXPOSED RACEWAYS: REMOVE CONDUIT, WIRES, AND BOXES. PATCH TO MATCH EXISTING. FINISH ALL OPENINGS LEFT IN WALLS AND FLOORS.
4. CONCEALED CONDUITS IN THE SLAB: REMOVE EXISTING WIRES TO THE EXTENT POSSIBLE AND ABANDON CONDUITS IN THE SLAB. CUT CONDUIT FLUSH AND PATCH THE FLOOR TO MATCH EXISTING.
5. CONTROL PANELS: ELECTRICAL CONTRACTOR SHALL DE-ENERGIZE AND REMOVE ALL CONDUIT AND WIRE AS DESCRIBED IN NOTES 3 AND 4. CONTRACTOR SHALL REMOVE PANELS AS NOTED ON THE CONTRACT DRAWINGS.
6. MOTOR CONTROL CENTERS: DISCONNECT AND REMOVE ALL CONDUITS AND WIRING TO EXISTING STARTERS AND/OR BREAKERS, PANELBOARDS, BRANCH CIRCUITS, INTERLOCKS AND STATUS WIRING WITHIN MCC.
7. REFER TO THE CONTRACT SPECIFICATIONS FOR ADDITIONAL ELECTRICAL DEMOLITION AND REMOVAL REQUIREMENTS.

__% SUBMITTAL

PRELIMINARY DESIGN PHASE

NOT FOR CONSTRUCTION

THIS DOCUMENT IS AN INTERIM DOCUMENT AND NOT SUITABLE FOR CONSTRUCTION. AS AN INTERIM DOCUMENT, IT MAY CONTAIN DATA THAT IS POTENTIALLY INACCURATE OR INCOMPLETE AND IS NOT TO BE RELIED UPON WITHOUT THE EXPRESS WRITTEN CONSENT OF THE PREPARER.

NO	REVISION	DATE	BY

SCALES

0 1"

0 25mm

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

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ALDERWOOD WATER & WASTEWATER DISTRICT

CLEARVIEW WATER SUPPLY AGENCY

W2307 CLEARVIEW WATER SUPPLY IMPROVEMENTS

Kennedy Jenks

ELECTRICAL ABBREVIATIONS AND NOTES

SCALE NTS

JOB NO 2497017 W2307

DATE OCTOBER 2025

SHEET E-001 OF ---

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SINGLE LINE DIAGRAM SYMBOLS

BUS

BUS (EXISTING)

FEEDER

FEEDER (EXISTING)

X — AMPS FRAME — 100A / 70A — AMPS TRIP
LOW VOLTAGE THERMAL-MAGNETIC CIRCUIT BREAKER
3-POLE EXCEPT WHERE NOTED
X = CIRCUIT NUMBER OR LOCATION (SEE ELEVATION)

X — AMPS CONTINUOUS — 100A / MCP
LOW VOLTAGE MOTOR CIRCUIT PROTECTOR
3-POLE EXCEPT WHERE NOTED
X = CIRCUIT NUMBER OR LOCATION (SEE ELEVATION)

400AF / 200AT
LOW VOLTAGE DRAWOUT CIRCUIT BREAKER
INCLUDING L-S-I-G SETTINGS UNLESS NOTED OTHERWISE
L = LONG TIME
S = SHORT TIME
I = INSTANTANEOUS
G = GROUND FAULT

52
MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER

FVNR #
FULL VOLTAGE COMBINATION STARTER
WITH CONTROL POWER TRANSFORMER
# = NEMA SIZE
FVR = REVERSING TYPE
FVNR = NON-REVERSING TYPE

RVSS _A
REDUCED VOLTAGE STARTER
WITH CONTROL POWER TRANSFORMER
RATING IN AMPERES AS INDICATED
RVSS = SOLID STATE TYPE
RVAT = AUTO-TRANSFORMER TYPE

VFD _A
VARIABLE FREQUENCY DRIVE
WITH CONTROL POWER TRANSFORMER
RATING IN AMPERES AS INDICATED

30A
DISCONNECT SWITCH
3 POLE EXCEPT WHERE NOTED
RATING IN AMPERES AS INDICATED

30A / 25A
FUSED DISCONNECT SWITCH
3 POLE EXCEPT WHERE NOTED
RATINGS IN AMPERES AS INDICATED

480:120 (3)
POTENTIAL TRANSFORMER
RATIO AND NUMBER OF PT'S AS INDICATED

(3)
CURRENT TRANSFORMER
RATIO AND NUMBER OF CT'S AS INDICATED

*
METERING DEVICE
* = METER TYPE
WHM = WATT HOUR METER
WM = WATT METER
AM = AMMETER
VM = VOLTMETER
PFM = POWER FACTOR METER
SSM = SOLID STATE METER

#
RELAY DEVICE FUNCTION
PER ANSI NUMBER C37.2

15/25	AUTO SYNCHRONIZER RELAY	50/51N	INST/TIME RESIDUALLY CONNECTED GND OVERCURRENT
25	SYNCHRONISM CHECK RELAY	51G	GND FAULT RELAY
27	UNDERVOLTAGE RELAY	52	POWER CIRCUIT BREAKER
27/59	UNDER/OVERVOLTAGE RELAY	55	POWER FACTOR TRIP RELAY
32	DIRECTIONAL POWER RELAY	60	VOLTAGE BALANCE
37	UNDERCURRENT RELAY	62	TIME DELAY
38	HIGH TEMP (BEARING)	65	GOVERNOR LOAD SHARING/SOFT LANDING CONTROL
39	VIBRATION RELAY	66	TIME BETWEEN STARTS RELAY
40	LOSS OF FIELD/UNDER EXCITATION RELAY	67	DIRECTIONAL REVERSE VAR/KW RELAY
41	FIELD CONTACTOR	71L	LOW OIL LEVEL RELAY
43	SELECTOR SWITCH	81O/U	OVER/UNDER FREQUENCY RELAY
46	CURRENT IMBALANCE RELAY	83	CONTROL POWER TRANSFORMER
47	PHASE SEQUENCE/FAILURE RELAY	86	UTILITY LOCKOUT RELAY
48	GROUND FAULT INCOMPLETE SEQUENCE RELAY	87TL	TRANSFORMER DIFFERENTIAL RELAY
49	HIGH TEMP (OIL OR STATOR)	87M	MOTOR DIFFERENTIAL RELAY
50/51	INST/TIME OVERCURRENT RELAY	90	VAR/PF AND CROSS CURRENT COMPENSATION CONTROLLER
50/51G	INST/TIME DIRECTLY CONNECTED GND OVERCURRENT RELAY		

K — KEY INTERLOCK

ST — SHUNT TRIP

SSMP — SOLID STATE MOTOR PROTECTIVE DEVICE

SPD — SURGE PROTECTIVE DEVICE

EARTH GROUND CONNECTION

LIGHTNING ARRESTOR AND SURGE CAPACITOR

FLA / HP
MOTOR
HORSEPOWER AND FULL LOAD AMPERES AS INDICATED

A / # KW
PACKAGED EQUIPMENT
LOAD (IN KW OR KVA) AND AMPERES AS INDICATED

MOV
ELECTRICAL MOTOR OPERATED VALVE
WITH INTEGRAL REVERSING STARTER

TERMINATOR / POTHEAD

POWER OR DISTRIBUTION TRANSFORMER
CONFIGURATION AND RATING AS INDICATED

DELTA-WYE

DELTA-WYE GROUNDED

DELTA-DELTA

GEN
GENERATOR
RATINGS AS INDICATED

AUTOMATIC OR MANUAL TRANSFER SWITCH
RATING AND CONFIGURATION AS INDICATED

5
CAPACITOR
RATING IN KVAR AS INDICATED

A / SEC
NEUTRAL GROUNDING RESISTOR
CURRENT RATING IN AMPERES AS NOTED
TIME RATING IN SECONDS AS NOTED

#
CONTACTOR
NUMBER INDICATES NEMA SIZE

OVERLOAD (THERMAL OR SOLID STATE)

5A
FUSE
SIZE AS INDICATED

AS — AMMETER SWITCH

VS — VOLTMETER SWITCH

RECEPTACLE, 120V

SPECIAL RECEPTACLE, 208V OR 240V, 1-PHASE

SPECIAL/WELDING RECEPTACLE, 208V OR 240V, 3-PHASE

SPECIAL RECEPTACLE, 480V, 3-PHASE

CONTROL SCHEMATIC SYMBOLS

CONDUCTORS - NOT CONNECTED

CONDUCTORS - CONNECTED

TERMINAL

** / #
CONTROL DEVICE COIL
** = TYPE
CR = CONTROL RELAY
TD = TIME DELAY RELAY
ISR = INTRINSICALLY SAFE RELAY
PC = PHOTOCELL

CR 1 — XXXX, XXXX
XXXX — NORMALLY OPEN CONTACT LINE REFERENCE
XXXX — NORMALLY CLOSED CONTACT LINE REFERENCE

SV-#
SOLENOID COIL

CR# CR#
CONTACT
NORMALLY OPEN / CLOSED

MCP — 5A
CIRCUIT BREAKER OR MCP AS NOTED
1-POLE / 3-POLE

OL
OVERLOAD (THERMAL OR SOLID STATE)

DISCONNECT SWITCH
1-POLE / 3-POLE

M
MOTOR

CONTROL POWER TRANSFORMER

BATTERY

5A
FUSE
RATING IN AMPERES

EARTH GROUND CONNECTION

CHASSIS GROUND CONNECTION
(NOT NECESSARILY EARTH GROUNDED)

DI
DIGITAL INPUT TO PLC/RTU/DCS

DIGITAL OUTPUT FROM PLC/RTU/DCS
NORMALLY OPEN

DIGITAL OUTPUT FROM PLC/RTU/DCS
NORMALLY CLOSED

AI
ANALOG INPUT TO PLC/RTU/DCS
4-20 mA (UNLESS INDICATED OTHERWISE)

AO
ANALOG OUTPUT FROM PLC/RTU/DCS
4-20 mA (UNLESS INDICATED OTHERWISE)

SINGLE POLE SWITCH
NORMALLY OPEN / CLOSED

H O A — XOO — OOX
THREE-POSITION SELECTOR SWITCH
X: INDICATES CONTACTS CLOSED
H-O-A: HAND-OFF-AUTO
L-O-R: LOCAL-OFF-REMOTE
O-S-C: OPEN-STOP-CLOSE

L R — XOO — OOX
TWO-POSITION SELECTOR SWITCH
X: INDICATES CONTACTS CLOSED
L-R: LOCAL-REMOTE
O-C: OPEN-CLOSE
A-M: AUTO-MANUAL

O S C — XOO — OOX
THREE-POSITION SELECTOR SWITCH
WITH SPRING-RETURN MOMENTARY CONTACT

E-STOP E-STOP
EMERGENCY PUSHBUTTON
NORMALLY OPEN / CLOSED

PUSHBUTTON
NORMALLY OPEN / CLOSED

MULTI-POSITION
SELECTOR SWITCH

X
PUSH-TO-TEST INDICATING LIGHT
X = COLOR
A = AMBER
B = BLUE
G = GREEN
R = RED
W = WHITE

X
INDICATING LIGHT

ETM
ELAPSED TIME METER

BUZZER

BELL

HORN

RESISTANCE TEMPERATURE DETECTOR (RTD)

HEATER

COMMUNICATION JACK
(ETHERNET UNLESS INDICATED OTHERWISE)

RECEPTACLE, 120V

NEUTRAL GROUNDING RESISTOR

1
LOCATION SYMBOL
LEGEND SHOWN ON SCHEMATIC DRAWINGS
ALL DEVICES ARE LOCATED IN THE MCC
UNLESS INDICATED OTHERWISE

POTENTIOMETER

REACTOR (LINE OR LOAD
DEPENDING ON PLACEMENT)

SENSING SWITCHES		
CLOSE ON		SENSED VARIABLE
RISING	FALLING	
FS	FS	FLOW
LS	LS	LEVEL
PS	PS	PRESSURE
TS	TS	TEMPERATURE
LIMIT SWITCHES		
ZS	NORMALLY OPEN,CLOSE ON REACHING LIMIT	
ZS	NORMALLY CLOSED, OPEN ON REACHING LIMIT	
TORQUE SWITCH		
	NORMALLY CLOSED, OPEN ON INCREASING TORQUE	

TIMED CONTACTS			
SYMBOL	NORMAL	OPEN TO CLOSED	CLOSED TO OPEN
TR	OPEN	DELAYED	INSTANTANEOUS
TR	CLOSED	INSTANTANEOUS	DELAYED
TR	OPEN	INSTANTANEOUS	DELAYED
TR	CLOSED	DELAYED	INSTANTANEOUS

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DESIGNED

DRAWN

CHECKED

ALDERWOOD WATER & WASTEWATER DISTRICT
CLEARVIEW WATER SUPPLY AGENCY
W2307 CLEARVIEW WATER SUPPLY IMPROVEMENTS

Kennedy Jenks

ELECTRICAL LEGEND - I

SCALE: NTS
JOB NO: 2497017 W2307
DATE: OCTOBER 2025
SHEET OF ---
E-002

Plot Date: 4/10/2026 11:10 AM
User: TY BIENVENU
pw:\\kjce-pw.bentley.com:kjce-pw\Documents\Clients\Alderwood Water & Wastewater District\Projects\W2307 Clearview Improvement Project_2497017.00\10-Design\10.06-Drawings\Electrical\2497017.00-E-003

PLAN SYMBOLS

CONDUIT AND RACEWAYS

- CONDUIT - MULTIPLE IN DUCT BANK
- MULTIPLE CONDUIT RUN
- CONDUIT - ENCASED OR UNDERGROUND
- CONDUIT - EXPOSED OR CONCEALED
- CALLOUT INDICATING CONDUIT PER SCHEDULE (P-135)
- HOME RUN TO PANELBOARD OR AS INDICATED (3/4 " CONDUIT, 2 #12, 1 #12 GND UNLESS INDICATED OTHERWISE)
- FLEXIBLE CONDUIT
- CONDUIT RUN, CONTINUES ON SAME SHEET OR AS NOTED
- CONDUIT - CAPPED OR SEALED
- OPEN CIRCLE DENOTES UPWARD CONDUIT RISER
- SEMI CIRCLE DENOTES DOWNWARD CONDUIT RISER
- JUNCTION BOX (J)
- UNDERGROUND RACEWAY HANDHOLE DIMENSIONS AS NOTED (HH-#)
- UNDERGROUND RACEWAY MANHOLE DIMENSIONS AS NOTED (MH-#)

EQUIPMENT

- MOTOR (M)
- PANEL OR CABINET - AS LABELED SWBD, SWGR, MCC, LP, PNLBD, PLC, ETC

GROUNDING

- BARE COPPER GROUND TO GROUND WIRE IN SLAB, OR UNDERGROUND GROUND GRID, SIZE AS NOTED
- GROUND CONNECTION - BOLTED
- GROUND CONNECTION - EXOTHERMICALLY WELDED
- GROUND ROD - IN WELL WITH BOX
- GROUND ROD - BURIED

FIRE PROTECTION

- FIRE ALARM PULL STATION (F)
- FIRE ALARM STROBE (F)
- FIRE ALARM HORN (F)
- FIRE ALARM HORN/STROBE (F)
- SMOKE DETECTOR (SD)
- HEAT DETECTOR (HD)

LIGHTING

- LUMINAIRE CALLOUT (A / *)
  A = LUMINAIRE TYPE
  * = APPROXIMATE MOUNTING HEIGHT AFF
  CLG = CEILING MOUNT
  (SEE LUMINAIRE SCHEDULE FOR MORE DETAILS)
- LUMINAIRE - STRIP OR TROFFER TYPE (X-#a)
  (SWITCHED/UNSWITCHED)
  X = LIGHTING PANEL DESIGNATION
  # = CIRCUIT NUMBER
  a = SWITCH DESIGNATION
- WALL MOUNTED LUMINAIRE (SWITCHED/UNSWITCHED)
- PENDANT/CEILING MOUNTED LUMINAIRE (SWITCHED/UNSWITCHED)
- POLE, BRACKET, ARM, AND MOUNTED LUMINAIRE
- RECESSED CAN LUMINAIRE (SWITCHED/UNSWITCHED)
- EMERGENCY LUMINAIRE WITH SELF CONTAINED BATTERY
- WALL/CEILING MOUNTED EXIT LIGHT DIRECTIONAL ARROW WHERE INDICATED, SHADED AREA INDICATES ILLUMINATED FACE
- LIGHT SWITCH ($ X-#a *)
  X = LIGHTING PANEL DESIGNATION
  # = CIRCUIT NUMBER
  a = SWITCH DESIGNATION
  * = SWITCH TYPE
  1 1 WAY
  3 3 WAY
  4 4 WAY
  D DIMMER
- MOTION SENSOR (M)
- OCCUPANCY SENSOR (O)
- PHOTOCELL (PC)
- TIME CLOCK (TC)

RECEPTACLES

- DUPLEX RECEPTACLE, 120V, WALL MOUNT (X-#/*)
  NEMA 5-20R CONFIGURATION
  X = LIGHTING PANEL DESIGNATION
  # = CIRCUIT NUMBER
  * = RECEPTACLE TYPE
  WP WEATHERPROOF
  XP EXPLOSION PROOF
  GFCI GROUND FAULT CIRCUIT INTERRUPTER
- DUPLEX RECEPTACLE, 120V, FLOOR MOUNT (X-#/*)
  NEMA 5-20R CONFIGURATION
- SINGLE SPECIAL RECEPTACLE, 208V OR 240V, 1-PHASE (X-#/A)
  X = PANEL DESIGNATION
  # = CIRCUIT NUMBER
  A = AMPERAGE
- SINGLE SPECIAL/WELDING RECEPTACLE, 208V OR 240V, 3-PHASE (X-#/A)
  X = PANEL DESIGNATION
  # = CIRCUIT NUMBER
  A = AMPERAGE
- SINGLE SPECIAL RECEPTACLE, 480V, 3-PHASE (X-#/A)
  X = PANEL DESIGNATION
  # = CIRCUIT NUMBER
  A = AMPERAGE

SECURITY AND COMMUNICATION

- ANTENNA
- VIDEO CAMERA (VC *)
  * = TYPE
  F FIXED
  PTZ PAN-TILT-ZOOM
  360 360 DEGREE FIXED
- SECURITY ACCESS DEVICE (*)
  * = TYPE
  CR CARD READER
  KS KEY SWITCH
  KP KEYPAD
  RF RADIO FREQUENCY ID
- TELEPHONE OUTLET
  WALL MOUNTED/FLOOR MOUNTED
- DATA OUTLET
  WALL MOUNTED/FLOOR MOUNTED
- TELEPHONE/DATA COMBINATION OUTLET
  WALL MOUNTED/FLOOR MOUNTED
- TELEVISION ANTENNA/CABLE OUTLET (TV)

MISCELLANEOUS

- DISCONNECT SAFETY SWITCH
- INSTRUMENT
- SWITCH - SPECIAL PURPOSE ($ X-# *)
  X = LIGHTING PANEL DESIGNATION
  # = CIRCUIT NUMBER
  * = SWITCH TYPE
  M MOTOR RATED
  K KEY OPERATED
  T TIMER
- THERMOSTAT (T)
- CID1 — CLASS I, DIVISION 1 HAZARDOUS AREA BOUNDARY (LABEL APPEARS IN CLASSIFIED AREA)
- CID2 — CLASS I, DIVISION 2 HAZARDOUS AREA BOUNDARY (LABEL APPEARS IN CLASSIFIED AREA)

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ALDERWOOD WATER & WASTEWATER DISTRICT
CLEARVIEW WATER SUPPLY AGENCY
W2307 CLEARVIEW WATER SUPPLY IMPROVEMENTS

Kennedy Jenks

ELECTRICAL LEGEND - II

SCALE: NTS
JOB NO: 2497017 W2307
DATE: OCTOBER 2025
SHEET OF ---
E-003

Plot Date: 4/10/2026 11:10 AM
User: TY BIENVENU
pw:\\kje-pw.bentley.com:kje-pwDocuments\Clients\Alderwood Water & Wastewater District\Projects\W2307 Clearview Improvement Project_2497017.00\10-Design\10.06-Drawings\Electrical\2497017.00-E-005

GENERAL SHEET NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING ANY WORK.

PUD 12.47kV OVERHEAD DISTRIBUTION SYSTEM w/ UPSTREAM TRANSFER EQUIPMENT
MAXIMUM AVAILABLE FAULT CURRENT (AFC): 5.05kA 3ϕ, 3.260kA SLG, X1/R1: 3.43
MINIMUM AVAILABLE FAULT CURRENT (AFC): 1.44kA 3ϕ, .9kA SLG, X1/R1: 1.53
(AS OF NOVEMBER 2025)

PUD POLE: DF 14 X
PUD METER
METER #:1000140297
55175191
PUD FUSED CUTOUTS
PM-2
PUD PAD-MOUNT
PRIMARY METER
MDS-1
MAIN DISCONNECT SWITCH
XFMR-3
2500 kVA PAD-MOUNT OIL FILL
12470-4160/2400VAC 3PH, Y/Y,
5.48%Z
52 CB4
480AT/1200AF CB
OUTSIDE
CLEARVIEW PUMP STATION STRUCTURE

XFMR-20
225 kVA PAD-MOUNT OIL FILL
4160-480/277VAC 3PH, Δ/Y

G GENERATOR
INDOOR STANDBY
DIESEL GENERATOR
1600KW
4160VAC 3PH, 4W
52

SWGR-12
4160V, 1200A, 3ϕ, 3W
METAL ENCLOSED
EATON MVS
5kV 600A SWITCHES
41kA MOMENTARY
41kA FAULT CLOSE

150A
400A
SPARE 200A
65A

XFMR-10
1000 kVA
4160-480/277VAC 3PH,
Δ/Y, 6.24%Z
1000AT
1200AF

P100/P200 POWER CONTROL PANEL

ATS-10
5kV, 1200A, 3P
BUSSED w/ SWRG-10
61kA MOMENTARY
61kA FAULT CLOSE
EATON 2 SWITCH AUTO
TRANSFER SYSTEM w/
MOTOR OPERATED
LINEAR ACTUATORS

P-100 VFD CP
3-COMPARTMENT
FREE-STANDING
ENCLOSURE
1200AT
1200AF
18 PULSE XFMR
18 PULSE DIODE BRIDGE
PRECHARGE
VFD
FVNR BYPASS
400 HP
P-100

P-200 VFD CP
3-COMPARTMENT
FREE-STANDING
ENCLOSURE
1200AT
1200AF
18 PULSE XFMR
18 PULSE DIODE BRIDGE
PRECHARGE
VFD
FVNR BYPASS
400 HP
P-200

MCC-MV-2
4160V, 600A,
3ϕ, 50kAIC

ISOLATION
BYPASS RVSS
800 HP
P-300

ISOLATION
BYPASS RVSS
800 HP
P-400

ISOLATION
BYPASS RVSS
800 HP
P-500





ATS-10 & SWGR-12 REFERENCE PHOTOS

MCC-LV-900
480VAC, 600A,
3ϕ, 3W, 40kAIC

1C 350AT 400AF
1A PPM
1B SPD
2A
2B 20AT — SPACE
2C 15AT — BRIDGE CRANE
2D 90AT — WELDER OUTLET
2E 15AT — 5kW UNIT HEATER
2F 50AT — HP-1 39A FLA
2G 15AT — SPARE
2H MCP — SPARE
2I — SPACE
3A MCP — 7.5 HP EF-992 PUMP ROOM EXHAUST FAN
3B 15AT — SPARE
3C MCP — SPARE ~~SF-994 ELECTRIC ROOM SUPPLY FAN~~
3D 15AT — SPARE
3E MCP — 3 HP EF-995 ELECTRIC ROOM EXHAUST FAN
4A MCP — 7.5 HP EF-991 PUMP ROOM EXHAUST FAN
4B MCP — 7.5 HP EF-993 PUMP ROOM EXHAUST FAN
4C MCP — SPACE
4D 50AT — UPS MBP — T-901, PANELBOARD LP-911
4E — SPACE
4F 50AT — T-902, PANELBOARD LP-912
4G — SPACE
4H 50AT — T-903, PANELBOARD LP-913
4I — SPACE
4J 50AT — T-904, PANELBOARD LP-914
5A 50AT — 15 HP EF-997 GEN ROOM EXHAUST FAN
5B MCP — SPACE
5C 15AT — 40 HP ME-804 RADIATOR FAN GENERATOR
5D — DEVICENET TRUNK

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CLEARVIEW WATER SUPPLY AGENCY
W2307 CLEARVIEW WATER SUPPLY IMPROVEMENTS

Kennedy Jenks

ELECTRICAL DEMOLITION ONE-LINE

SCALE NTS
JOB NO 2497017 W2307
DATE OCTOBER 2025
SHEET - OF ---
E-005

Plot Date: 10/28/2025 11:18 AM
User: TY BIENVENU
pw:\\kjce-pw.bentley.com:kjce-pw\Documents\Clients\Alderwood Water & Wastewater District\Projects\W2307 Clearview Improvement Project_2497017.00\10-Design\10.06-Drawings\Electrical

GENERAL SHEET NOTES

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(AS OF NOVEMBER 2025)

PUD POLE: DF 14 X
PUD FUSED CUTOUTS
PUD METER
METER #:1000140297
55175191
PM-2
PUD PAD-MOUNT PRIMARY METER
MDS-1
MAIN DISCONNECT SWITCH
XFMR-3
2500 kVA PAD-MOUNT OIL FILL
12470-4160/2400VAC 3PH, Y/Y, 5.48%Z

GENERATOR
OUTDOOR STANDBY DIESEL GENERATOR IN WEATHERPROOF SOUND-ATTENUATING ACOUSTICAL ENCLOSURE
2500kW
4160VAC 3PH, 4W

NGR
NEUTRAL GROUNDING RESISTOR

ATS
5kV 1200A
3ϕ
NEMA 1
DELAYED TRANSITION
ANTICIPATED CABLE ENTRY
NORMAL: BOTTOM
EMERGENCY: BOTTOM
LOAD: TOP
CBN
CBE

XFMR-20
225 kVA PAD-MOUNT OIL FILL
4160-480/277VAC 3PH, Δ/Y

OUTSIDE

CLEARVIEW PUMP STATION STRUCTURE

MCC-MV-1
4160V, -A, 3ϕ, 50kA
CALCULATED MAXIMUM AVAILABLE FAULT CURRENT:
6.241kA 3ϕ @ 4160VAC

SPARE
VFD LINE ISOLATION CONTACTOR (ALTERNATE FOR 800 HP VFD)
SPARE
SPARE
VFD LINE ISOLATION CONTACTOR
VFD LINE ISOLATION CONTACTOR
VFD LINE ISOLATION CONTACTOR
SPARE

MCC-MV-2
4160V, -A, 3ϕ, 50kA
CALCULATED MAXIMUM AVAILABLE FAULT CURRENT:
6.241kA 3ϕ @ 4160VAC

ISOLATION BYPASS RVSS — 800 HP P-300
ISOLATION BYPASS RVSS — 800 HP P-400
OR AUX / SPARE IF ALT FOR 800 HP VFD
ISOLATION BYPASS RVSS — 800 HP P-500

XFMR DIODE BRIDGE PRECHARGE VFD — 400 HP P-100
XFMR DIODE BRIDGE PRECHARGE VFD — 400 HP P-200
XFMR DIODE BRIDGE PRECHARGE VFD — 400 HP P-600

MCC-LV-900
480VAC, 600A, 3ϕ, 3W, 65kA

1C DPM 350AT 400AF
1A SPD
SPACE
2B 20AT — 5 HP AIR COMPRESSOR
2C 15AT — BRIDGE CRANE
2D 90AT — WELDER OUTLET
2E 15AT — 5kW UNIT HEATER
2F 50AT — HP-1 39A FLA
SPARE
2G 15AT
SPARE
2H MCP
SPACE
3A MCP — 7.5 HP EF-992 PUMP ROOM EXHAUST FAN
SPARE
3B MCP
3C 15AT — SPARE ~~SF-994 ELECTRIC ROOM SUPPLY FAN~~
SPARE
3D 15AT
3E MCP — 3 HP EF-995 ELECTRIC ROOM EXHAUST FAN
4A MCP — 7.5 HP EF-991 PUMP ROOM EXHAUST FAN
4B MCP — 7.5 HP EF-993 PUMP ROOM EXHAUST FAN
SPACE
4D 50AT — UPS — MBP — T-901, PANELBOARD LP-911
SPACE
4F 50AT — T-902, PANELBOARD LP-912
SPACE
4H 50AT — T-903, PANELBOARD LP-913
SPACE
4J 50AT — T-904, PANELBOARD LP-914
5A MCP
SPARE
5B
SPACE
5C 15AT
SPACE

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NO	REVISION	DATE	BY

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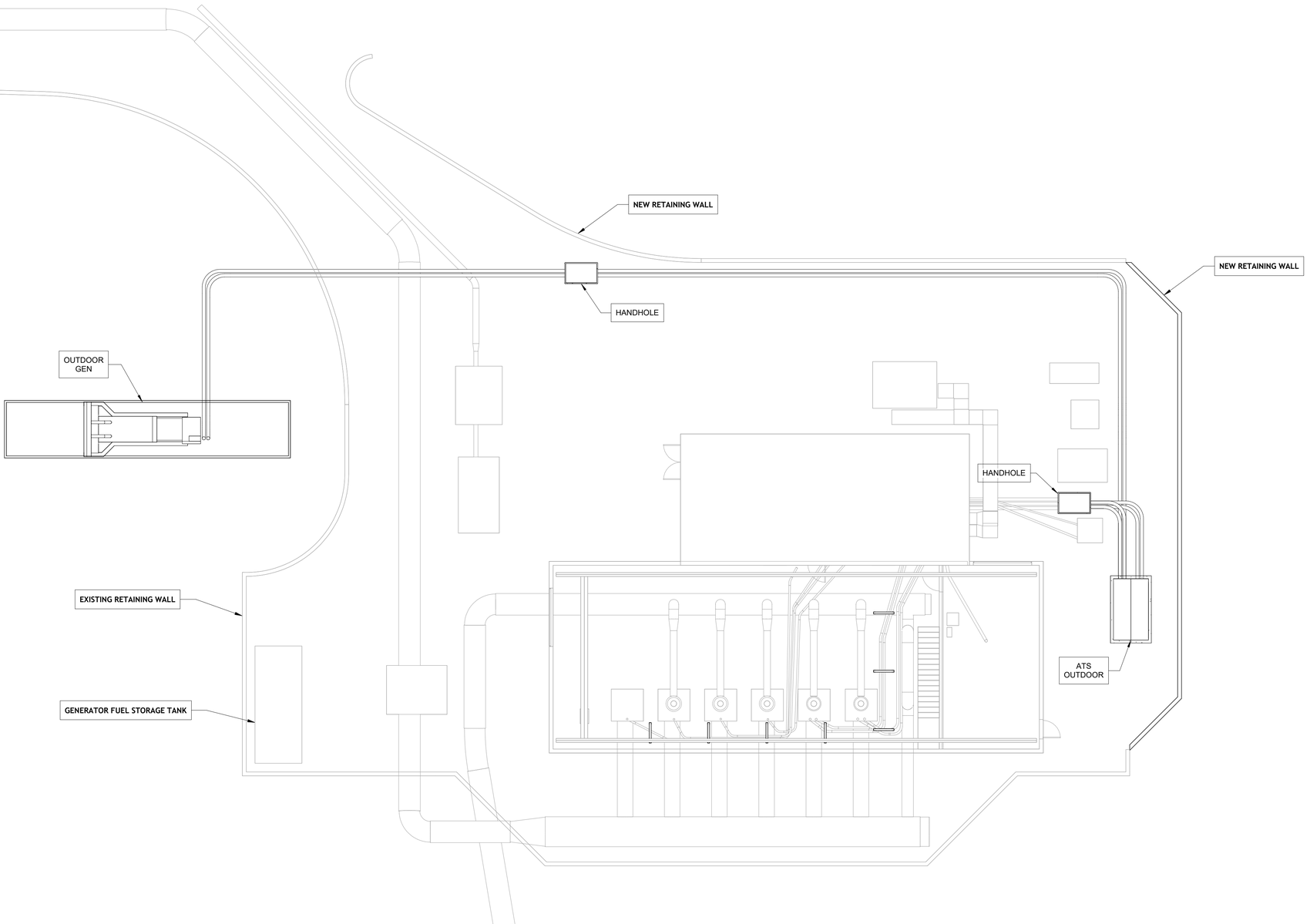
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ALDERWOOD WATER & WASTEWATER DISTRICT
CLEARVIEW WATER SUPPLY AGENCY
W2307 CLEARVIEW WATER SUPPLY IMPROVEMENTS

Kennedy Jenks

ELECTRICAL ONE-LINE

SCALE NTS
JOB NO 2497017 W2307
DATE OCTOBER 2025
SHEET - OF ---
E-006



Plot Date: 4/10/2026 10:58:06 AM

B:\d0277831\Clearview Electrical Revit.rvt

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NO	REVISION	DATE	BY

SCALES
0 — 1"
0 — 25mm
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Issue Date

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DRAWN TK
CHECKED

ALDERWOOD WATER &WASTEWATER DISTRICT
CLEARVIEW WATER SUPPLY AGENCY
W2307 CLEARVIEW WATER SUPPLY IMPROVEMENTS

Kennedy Jenks

SITE PLAN

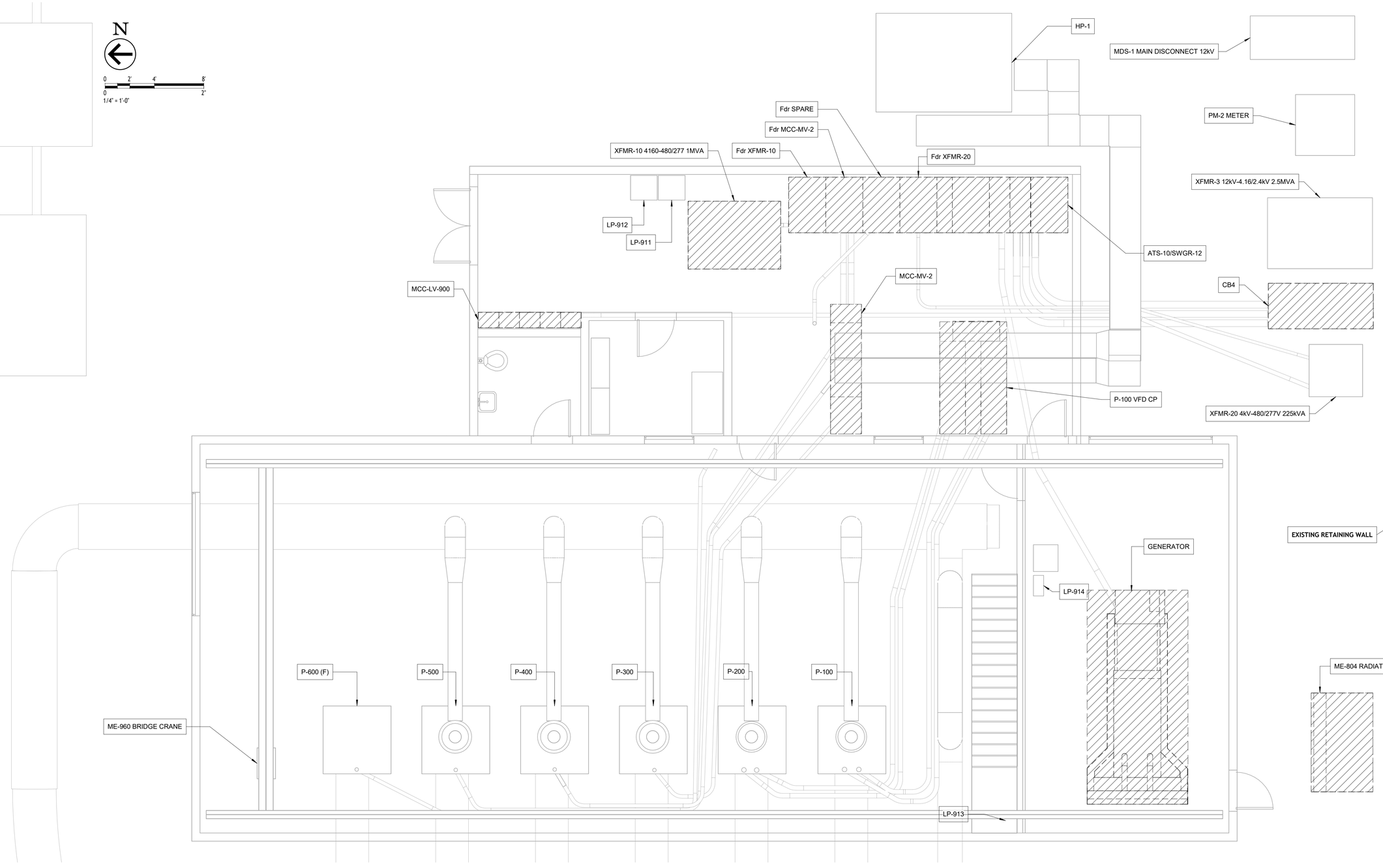
SCALE 1" = 10'-0"
JOB NO 2497017 W2307
DATE Issue Date

E-004

Plot Date: 4/10/2026 10:58:08 AM

N

0 2' 4' 8'
0 2"
1/4" = 1'-0"



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SCALES
0 1"
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DRAWN Author
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ALDERWOOD WATER &WASTEWATER DISTRICT
CLEARVIEW WATER SUPPLY AGENCY
W2307 CLEARVIEW WATER SUPPLY IMPROVEMENTS

Kennedy Jenks

ELECTRICAL DEMO PLAN

SCALE 1/4" = 1'-0"
JOB NO 2497017 W2307
DATE Issue Date

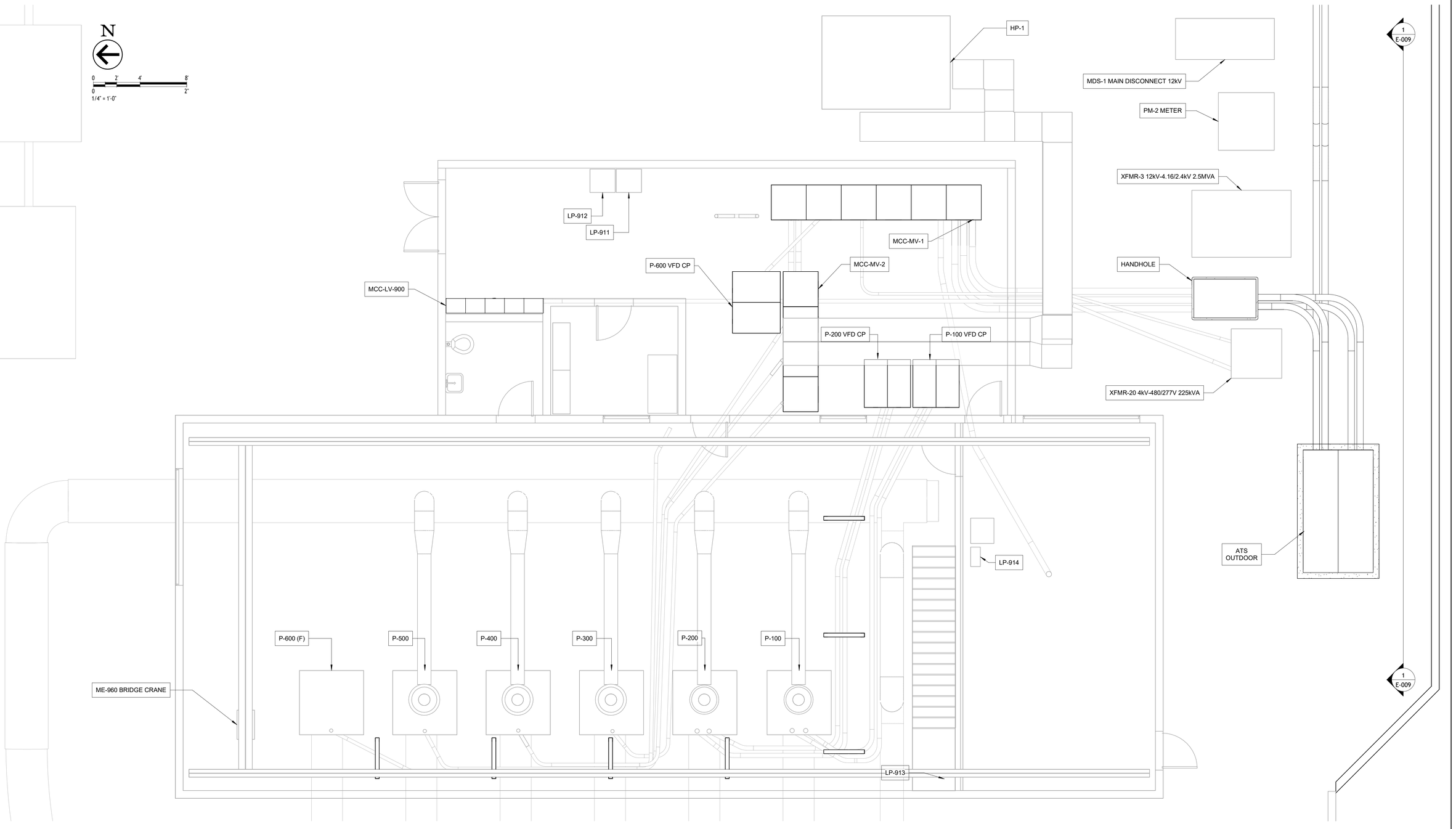
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0 2' 4' 8'
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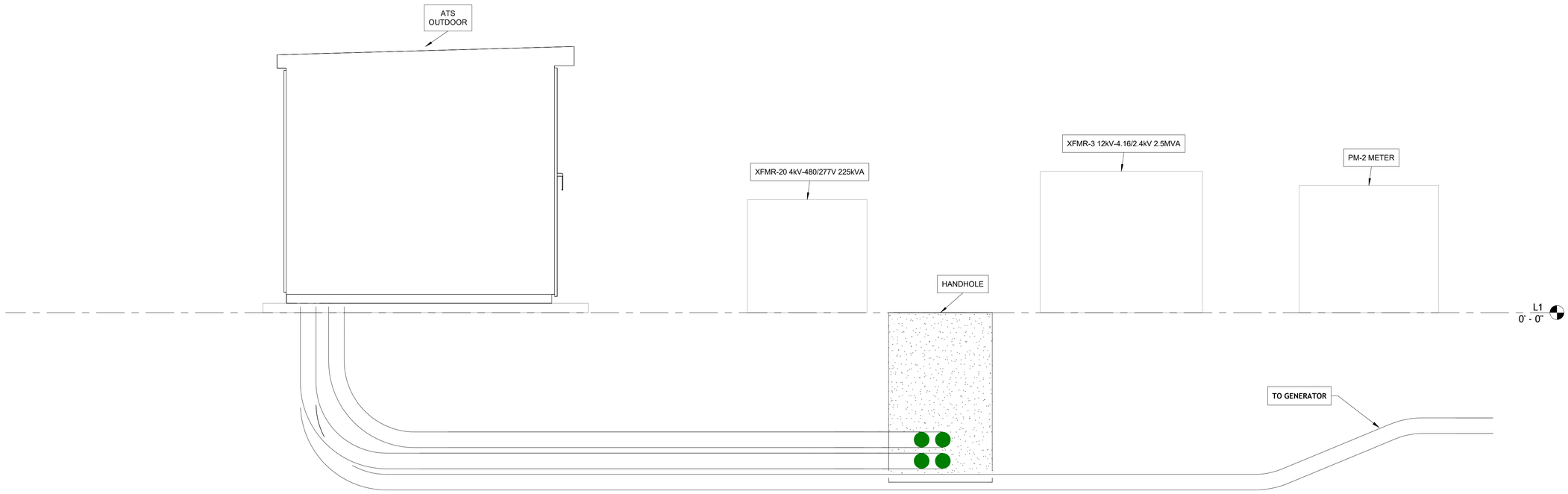
ELECTRICAL NEW PLAN

SCALE 1/4" = 1'-0"
JOB NO 2497017 W2307
DATE Issue Date

E-008

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Plot Date: 4/10/2026 10:58:09 AM



1 E-008 OUTDOOR POWER FEED ELEVATION
SCALE 1/2" = 1'-0"

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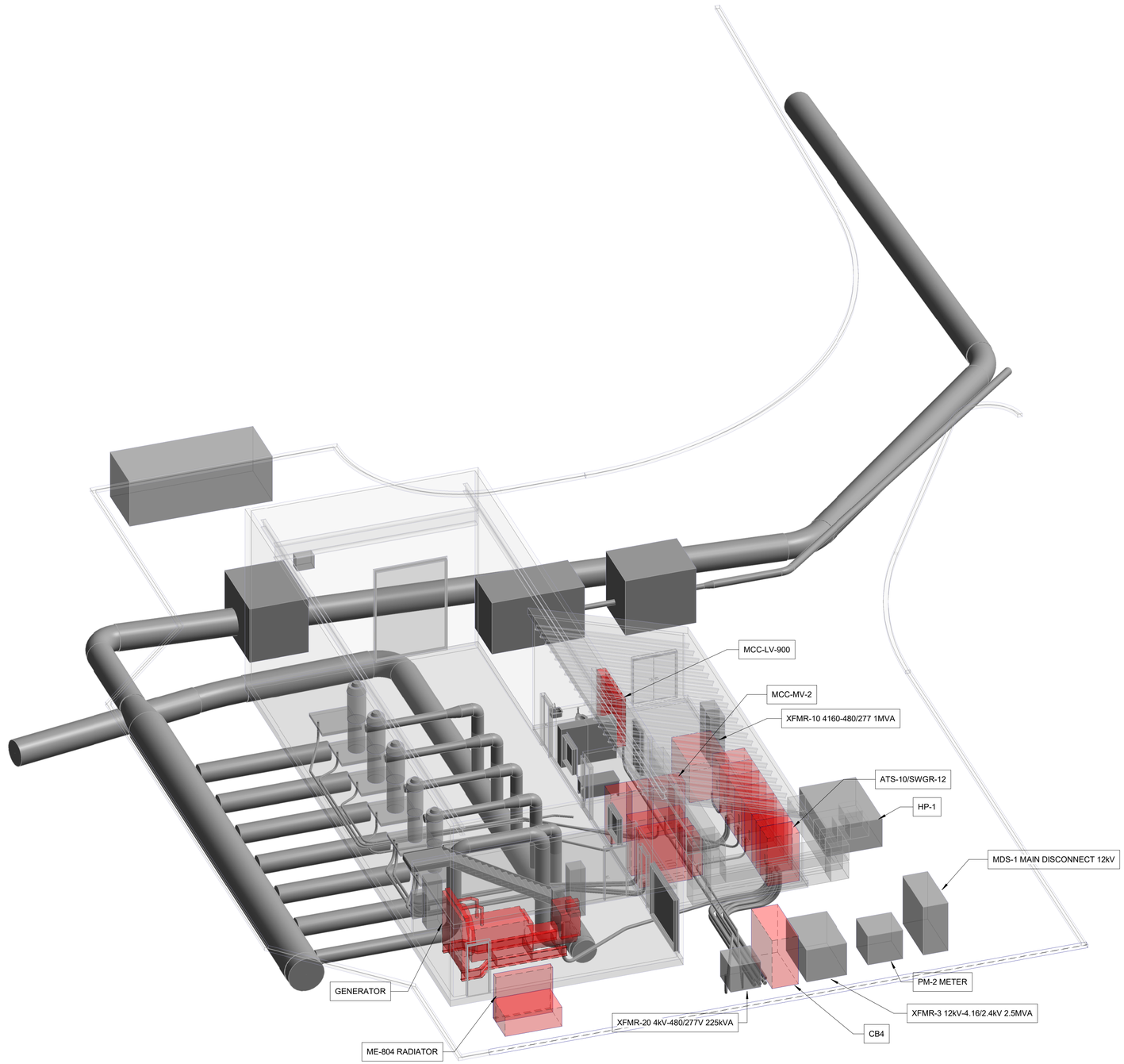
SECTION VIEW

SCALE 1/2" = 1'-0"
JOB NO 2497017 W2307
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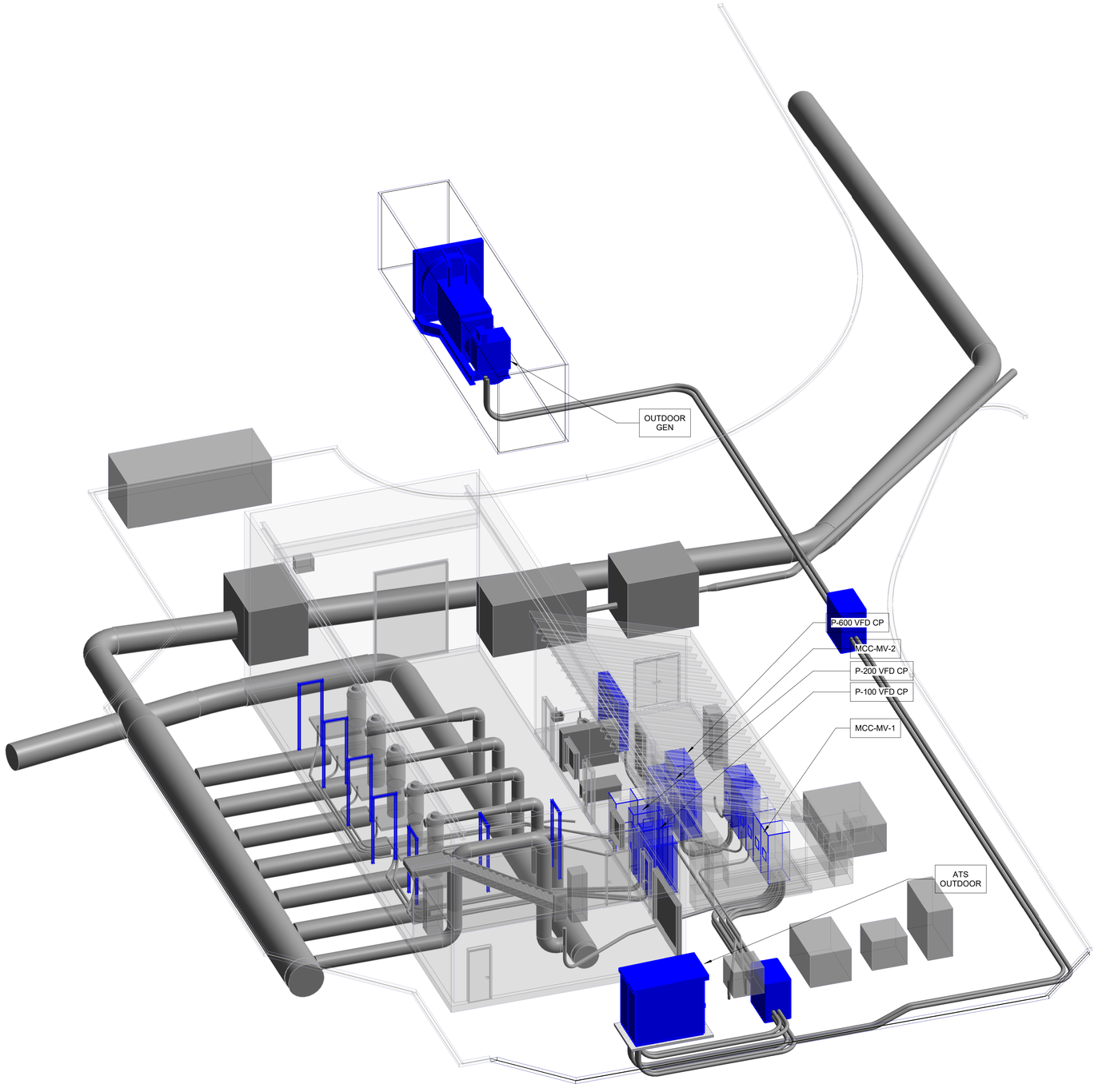
DEMO 3D VIEW

SCALE
JOB NO 2497017 W2307
DATE Issue Date

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NEW 3D VIEW

SCALE
JOB NO 2497017 W2307
DATE Issue Date

E-011

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Clearview Reservoir Corrosion Protection Testing Report

KENNEDY JENKS

February 14, 2026

Northwest Corrosion Engineering
7403 W. Country Club Drive, Arlington, WA 98223
Phone: (360) 391-1041 Cell: (360) 391-0822

Mr. Jeff Foray, P.E.
Kennedy/Jenks
32001 32nd Ave S, #100
Federal Way, WA 98001

Subject: Clearview Water Supply Agency 12.0 MG Reservoir – Interior Cathodic Protection Current Requirement Testing

Mr. Foray,

Northwest Corrosion Engineering performed cathodic protection current requirement testing for the Clearview reservoir on December 30, 2025. The purpose of this testing was to determine the quantity of current needed to provide corrosion protection to the interior submerged surfaces and to determine the qualitative condition of the interior submerged coating system. Using this information, the type and general arrangement of corrosion control equipment can be determined.

The 12.0 MG coated carbon steel reservoir measures 184-feet in diameter and 63-feet tall. The reservoir includes an exterior staircase, two roof access hatches, and a bare stainless steel interior ladder. Provisions for corrosion control in the form of cathodic protection were not included in the reservoir design. The reservoir was constructed in 2002 and all coating systems are original.

BACKGROUND

Corrosion Process

Quantity of protective current required for corrosion control is directly proportional to the amount of exposed steel surface area. A well coated reservoir having only a few coating defects will require much less corrosion protection current then will a reservoir with poor coatings. In addition, may reservoirs incorporate stainless steel ladders and/or safety climb equipment. In most instances, the stainless steel is left uncoated because of its' ability to withstand corrosion in neutral waters. Unfortunately, when the stainless steel is directly connected to the carbon steel reservoir through welding or by mechanical fastening means, a dissimilar metal corrosion cell is developed.

Because carbon steel has a more active electrical potential, it will corrode preferential to stainless steel. As the carbon steel surfaces are often well coated and the stainless steel is bare, a small anode / large cathode surface area ratio is developed whereby a small carbon steel surface area sacrifices itself to a large stainless steel surface area. This results in accelerated corrosion of the carbon steel. To counteract this corrosion cell activity, the application of cathodic protection is introduced. Using a system that is more electrically active than both carbon and stainless steel, the corrosion process of both these metal surfaces can be halted. In using this technique, adequate corrosion protection current must be supplied to overcome the electrical energy developed between the carbon and stainless steel, resulting in having to provide corrosion protection to the stainless steel (which normally will not corrode in this water service) as well as the carbon steel. When carbon steel and stainless steel are connected together and immersed in water, the limited driving potential of galvanic anodes is often not effective in providing complete corrosion control and the

use of an impressed current system with a transformer rectifier and AC power source becomes necessary.

Corrosion Protection Criteria

Corrosion protection criteria is met when the polarized (Instant Off) potential is at or more negative than -850 millivolts or if a minimum of 100 millivolts of polarization can be achieved. If the surfaces to be protected are comprised of dissimilar metals, the current necessary to protect the most active metal becomes the standard for the system design. In the case of electrically continuous carbon and stainless steel, the use of the -850 millivolt polarized potential criteria becomes applicable[1].

TEST PROCEDURES

Current requirement testing is completed by inserting a temporary anode into the water and applying a known electrical current between the temporary anode and the reservoir using a 12-volt battery source. Potential measurements are then recorded at two-foot intervals from the water surface to the bottom of the reservoir using a portable copper-copper sulfate reference electrode.

Prior to application of the test current, native state structure-to-electrolyte potential measurements were collected. This baseline data is used to determine the amount of polarization (corrosion protection) that is being achieved through the application of cathodic protection current. After recording native data, potential measurements were recorded with the test current applied (ON reading) and temporarily switched off (Instant Off or polarized potential). Using this information, the amount of protective current required for corrosion control can be calculated.

The quantity of protective current needed to achieve corrosion protection is directly proportional to the metallic surface area in contact with the water. As protective coatings provide a barrier between the water and the steel, corrosion protection current will not be picked up at locations of sound coating. Where coatings are dislodged or missing, cathodic protection current will flow to those exposed metal locations providing corrosion control. This testing methodology also provides a decent approximation as to the quality of the submerged coating, as a well coated structure requires much less current to achieve corrosion protection relative to a poorly coated structure.

RESULTS AND ANALYSIS

Data collected during the current requirement testing of the Clearview reservoir is presented in Table 1. 190 milliamps of current were allowed to discharge off the temporary anode for a period of 10 minutes to allow for a degree of polarization development. After this time, On and Instant Off potential measurements were made at the same two-foot intervals as the native state data.

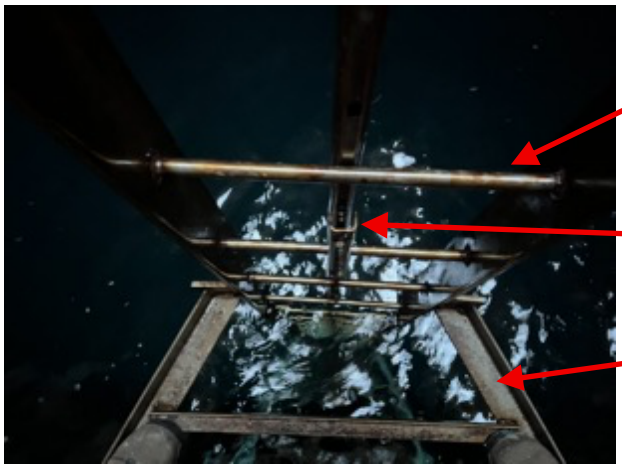
[1]National Association of Corrosion Engineers Recommended Practice SP0169 *Control of External Corrosion on Underground or Submerged Metallic Piping Systems*

Table 1: Structure-To-Electrolyte Potential Data, Clearview Reservoir

Ref. Cell Depth (ft)	Native (mV)	ON (mV)	Instant Off (mV)	Polarization (mV)
Water Level	-235	-1815	-442	207
2	-241	-1835	-443	202
4	-245	-1745	-449	204
6	-251	-1590	-453	202
8	-259	-1425	-455	196
10	-267	-1215	-453	186
12	-275	-1022	-451	176
14	-281	-875	-447	166
16	-285	-782	-447	162
18	-289	-702	-437	148
20	-290	-633	-431	141
22	-291	-587	-420	129
24	-294	-551	-419	125
26	-294	-527	-412	118
28	-296	-505	-413	117
30	-297	-489	-405	108
32	-297	-474	-403	106
34	-300	-464	-401	101
36	-300	-455	-401	101
38	-301	-451	-402	101
40	-302	-445	-403	101
42	-203	-443	-399	196

1. Potential measurements are in reference to a portable copper-copper sulfate reference electrode.
2. Corrosion protection criteria is satisfied when the Instant Off potential is at or more negative than -850 millivolts CSE.
3. 190 mA of DC current was applied for 10 minutes prior to collecting ON and Instant Off data.
4. Water level in reservoir: ~42 feet.

Results of this current requirement test showed that while 100 – 200 millivolts of polarization were achieved, the significant amount of bare stainless steel prevented the structure from meeting corrosion protection criteria using 190 milliamps of test current output. To meet the -850 millivolt polarized potential, approximately 1,200 milliamps of current will be needed. These results are typical for larger reservoirs with a 20+ year coating and submerged bare stainless steel.



CORROSION CONTROL OPTIONS

As part of this testing, a water sample was collected and tested for resistivity, an important variable used in calculating total circuit resistance. The higher the water resistivity, the higher the circuit resistance that must be overcome to provide the necessary protective current. The sampled water resistivity measured 26,500 ohm-cm which is on the high end for typical potable water (generally potable water ranges from 10,000 – 20,000 ohm-cm). While high resistivity does not affect water quality, it does limit options for cathodic protection system considerations.

Galvanic Anode Cathodic Protection

A galvanic anode system relies upon the electrical potential inherent in the anode material which in turn supplies the voltage to drive the protective current, such as zinc anodes on a boat.

For the amount of current required and the high water resistivity associated with this reservoir, a galvanic anode system would include over 50 separate anode strings, with each anode string consisting of three each 1-in diameter x 12-ft long magnesium rods. This quantity of anodes exceeds what would be considered a reasonable anode system design.

Impressed Current Cathodic Protection

An impressed current system utilizes a transformer rectifier to provide power to inert anodes installed within the reservoir. Similar to a galvanic system, the anodes would be suspended from the roof with lead wires routed to a rectifier. This type of system allows for more control over current output by adjusting the rectifier voltage and provides complete corrosion protection coverage to the submerged surfaces using less anode material.

An estimated 15 anodes evenly distributed within the reservoir would likely provide the necessary current. The life of an impressed current system would exceed 30 years with material and installation costs in the $40,000 range.

Based upon the data collected during the current requirement testing, an impressed current anode cathodic protection system would be the more appropriate of the two types of corrosion control options.

CONCLUSIONS

The following conclusions are based upon the results of our testing.

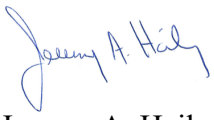
1. The coated carbon steel reservoir includes a bare stainless steel interior ladder and safety climb equipment.
2. Current requirement testing shows that 1.2 amperes of current would be needed to provide full corrosion protection to the submerged surfaces.
3. The resistivity of a collected water sample from this reservoir was 26,500 ohm-cm. This high value creates an increased circuit resistance for the cathodic protection system to overcome.
4. The original 2002 interior coating is in decent condition based upon current requirement testing.
5. A review of the Evergreen Coating Engineers coating assessment report dated December 2021 describes the interior coating as being in good condition for its age with the only significant corrosion noted at the bare stainless steel ladder/coated carbon steel reservoir connections. It was estimated at that time that the interior coating has approximately 5 to 10 years of service life remaining.

RECOMMENDATIONS

1. For interior corrosion control of the reservoir submerged surfaces, an impressed current cathodic protection system should be designed and installed. This system will include a rectifier, reference electrodes, and anodes suspended from the reservoir roof.
2. Alternatively, if all interior carbon steel surfaces were recoated and the stainless steel surfaces were coated or made to be electrically isolated from the carbon steel, a galvanic anode system would provide adequate current.

We appreciate the opportunity to assist you with this project. If you have any questions or would like additional information, please do not hesitate to contact our office.

Sincerely,
Northwest Corrosion Engineering



Jeremy A. Hailey, P.E.
NACE Cathodic Protection Specialist, No 5401