

Jordan Valley Water Conservancy District

8215 SOUTH 1300 WEST WEST JORDAN, UTAH 84088 PHONE (801) 565-4300

JA-2 FLOW CONTROL VAULT IMPROVEMENTS

PROJECT NUMBER: 4352 SEPTEMBER 2025

SHEET NO.	DRAWING NO.	SHEET TITLE				
1	G1	COVER SHEET				
2	G2	GENERAL NOTES				
3	G3	VICINITY MAP				
4	D1	DEMOLITION PLAN				
5	M1	FCV PLAN VIEW				
6	M2	FCV ELEVATION VIEW				
7	M3	DUTLET VALVE VAULT				
8	E1	LIGHTING PLAN				
9	E2	ELECTRICAL PLAN				
10	E3	WEST WALL ELEVATION				



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F		REV.	DESCRIPTION BY	DATE			ULL SIZE LLE ACCORDINGLY)	JA-2 FLOW CONTROL VAULT IMPROVEMENTS 9/9/2025	`_
					JORDAN VALLEY WATER			COVER SHEET PROJECT NUMBER	<u> </u>
					CONSERVANCY DISTRICT	DESIGN:	JTK	4352	-
					0210 000011 1000 17000	DRAWING:	JTK	DRAWING NUMBER	<u> </u>
					West Jordan, UT 84088 801-565-4300	APPROVAL:	JIK	SHEET NUMBER	
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9/9/2025

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2 OF 10

GENERAL NOTES:

- ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS INCLUDED AS PART OF THE CONTRACT DOCUMENTS.
- 2. IT IS INTENDED THAT THESE PLANS AND SPECIFICATIONS REQUIRE ALL NECESSARY AND PROPER LABOR AND MATERIALS NECESSARY FOR THE WORK CONTEMPLATED AND THAT THE WORK BE IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES OR AMBIGUITIES WHICH MAY EXIST IN THE PLANS OR SPECIFICATION. THE ENGINEER'S INTERPRETATION THEREOF SHALL BE CONCLUSIVE.
- 3. WHERE THE PLANS OR
 SPECIFICATION DESCRIBE PORTIONS
 OF THE WORK IN GENERAL TERMS
 BUT NOT IN COMPLETE DETAIL, IT IS
 UNDERSTOOD THAT ONLY THE BEST
 GENERAL PRACTICE IS TO PREVAIL
 AND THAT ONLY MATERIALS AND
 WORKMANSHIP OF THE HIGHEST
 QUALITY ARE TO BE USED.
- 4. THE CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PROJECT PLANS AND SPECIFICATIONS. THEREFORE, THE OWNER IS RELYING UPON THE EXPERIENCE AND EXPERTISE OF THE CONTRACTOR; IT SHALL BE EXPECTED THAT PRICES PROVIDED WITHIN THE CONTRACT DOCUMENTS SHALL INCLUDE ALL MATERIALS **NECESSARY AND PROPER LABOR** FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THE TRUE INTENT AND PURPOSE, THE CONTRACTOR SHALL BE COMPETENT, KNOWLEDGEABLE AND HAVE SPECIAL SKILLS IN THE NATURE. EXTENT AND INHERENT CONDITIONS OF THE WORK TO BE PERFORMED. CONTRACTOR SHALL ALSO ACKNOWLEDGE THAT THERE ARE CERTAIN PECULIAR AND INHERENT CONDITIONS EXISTENT IN THE CONSTRUCTION OF THE PARTICULAR FACILITIES, WHICH MAY CREATE, DURING THE CONSTRUCTION PROGRAM, UNUSUAL OR UNSAFE CONDITIONS HAZARDOUS TO PERSONS, PROPERTY AND THE **ENVIRONMENT, CONTRACTOR SHALL** BE AWARE OF SUCH PECULIAR RISKS AND HAVE THE SKILL AND EXPERIENCE TO FORESEE AND TO ADOPT PROTECTIVE MEASURES TO ADEQUATELY AND SAFELY PERFORM

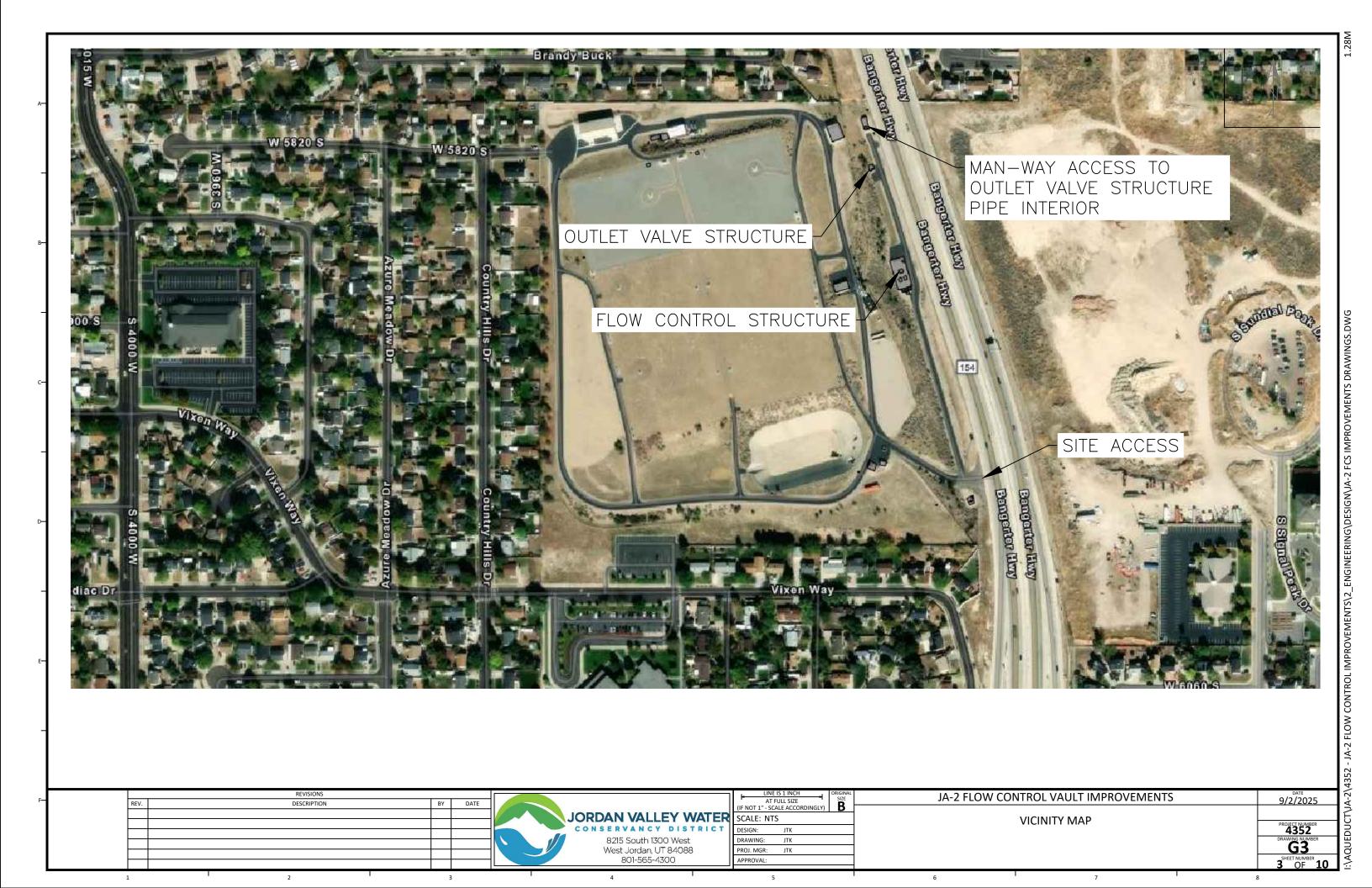
- THE CONSTRUCTION WORK WITH RESPECT TO SUCH HAZARDS.
- 5. THE CONTRACTOR SHALL BE
 RESPONSIBLE FOR ALL PERMITS AND
 LICENSES REQUIRED FOR THE
 CONSTRUCTION AND COMPLETION
 OF THE PROJECT, AND SHALL
 PERFORM ALL WORK IN
 ACCORDANCE WITH THE
 REQUIREMENTS AND CONDITIONS OF
 ALL PERMITS AND APPROVALS
 APPLICABLE TO THIS PROJECT. THE
 CONTRACTOR SHALL ENSURE THAT
 THE NECESSARY RIGHT-OF WAYS,
 EASEMENTS, AND/OR PERMITS ARE
 SECURED PRIOR TO CONSTRUCTION.
- 6. THE CONTRACTOR SHALL, AT THE TIME OF BIDDING, AND, THROUGHOUT THE PERIOD OF THE CONTRACT, BE LICENSED IN THE STATE OF UTAH TO DO THE TYPE OF WORK CONTEMPLATED IN THE PLANS AND SPECIFICATIONS, AND SHALL BE BONDABLE FOR AN AMOUNT EQUAL TO OR GREATER THAN THE AMOUNT OF THE BID.
- 7. CONTRACTOR SHALL INSPECT THE SITE OF THE WORK PRIOR TO BIDDING TO SATISFY THEMSELVES BY PERSONAL EXAMINATION OR BY SUCH OTHER MEANS AS THEY MAY PREFER, OF THE LOCATION OF THE PROPOSED WORK, AND OF THE ACTUAL CONDITIONS OF AND AT THE SITE OF WORK, IF, DURING THE COURSE OF THEIR EXAMINATION, A BIDDER FINDS FACTS OR CONDITIONS WHICH APPEAR TO THEM TO BE IN CONFLICT WITH THE LETTER OR SPIRIT OF THE PROJECT PLANS AND SPECIFICATIONS, THEY SHALL CONTACT THE ENGINEER FOR ADDITIONAL INFORMATION AND **EXPLANATION BEFORE SUBMITTING** THEIR BID. SUBMISSION OF A BID BY THE CONTRACTOR SHALL CONSTITUTE ACKNOWLEDGMENT THAT, IF AWARDED THE CONTRACT, THEY HAVE REVIEWED AND ARE RELYING ON THEIR OWN EXAMINATION OF (1) THE SITE OF THE WORK, (2) ACCESS TO THE SITE, AND (3) ALL OTHER DATA AND MATTERS REQUISITE TO THE FULFILLMENT OF THE WORK AND ON THEIR OWN KNOWLEDGE OF EXISTING FACILITIES ON AND IN THE VICINITY OF THE SITE OF THE WORK TO BE CONSTRUCTED UNDER THIS CONTRACT. THE INFORMATION PROVIDED BY THE OWNER OR THE ENGINEER IS NOT INTENDED TO BE A SUBSTITUTE FOR, OR A SUPPLEMENT TO THE INDEPENDENT VERIFICATION BY THE CONTRACTOR TO THE EXTENT SUCH INDEPENDENT INVESTIGATION OF

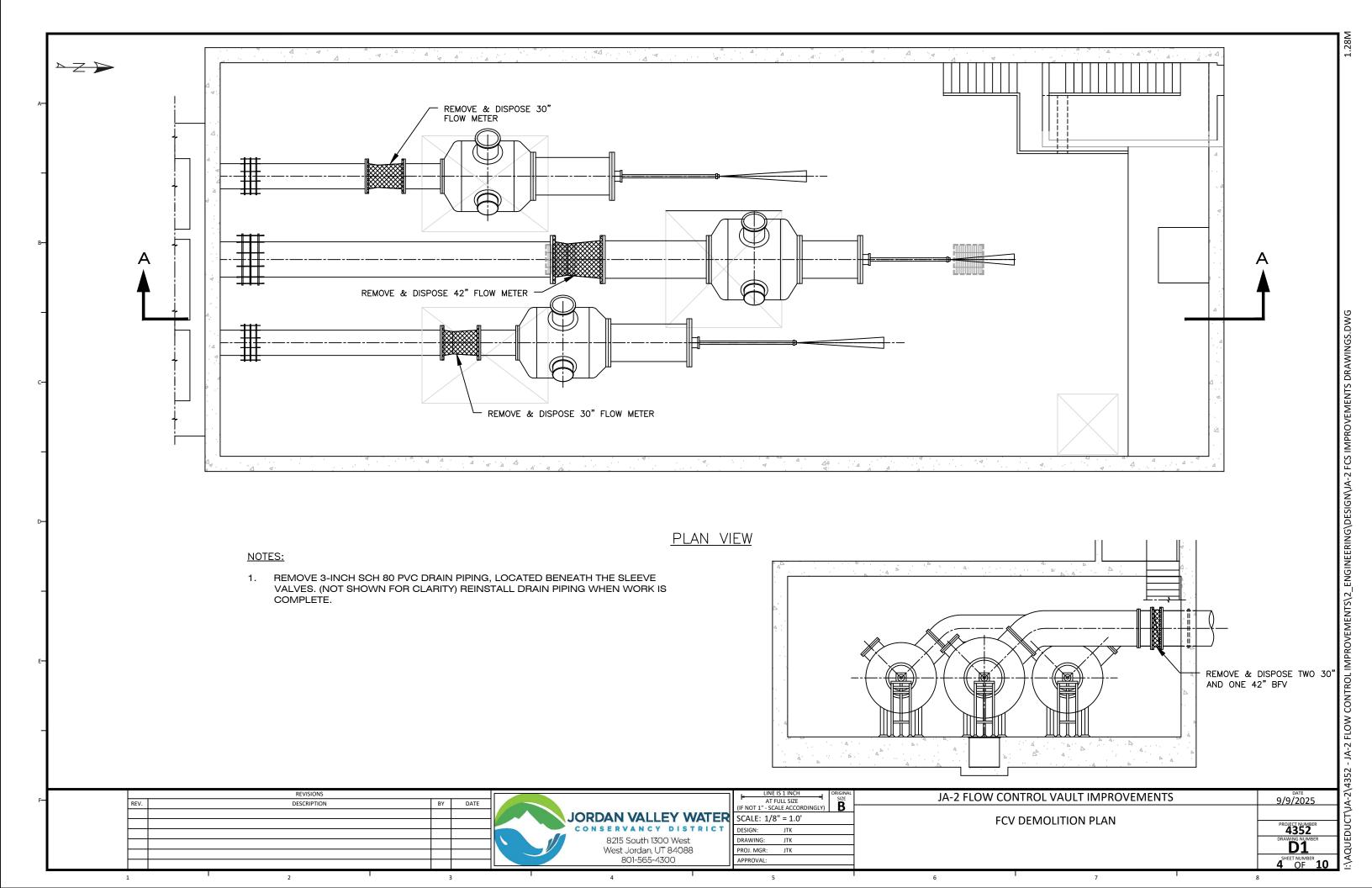
- SITE CONDITIONS IS DEEMED NECESSARY OR DESIRABLE BY THE CONTRACTOR. CONTRACTOR SHALL ACKNOWLEDGE THAT THEY HAVE NOT RELIED SOLELY UPON OWNER OR ENGINEER FURNISHED INFORMATION REGARDING SITE CONDITIONS IN PREPARING AND SUBMITTING.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL WATER, POWER, SANITARY FACILITIES AND TELEPHONE SERVICES AS REQUIRED FOR THE CONTRACTOR'S USE DURING CONSTRUCTION.
- 9. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER AND ENGINEER.
- 10.THE CONTRACTOR AGREES THAT:
 - A. THEY WILL BE RESPONSIBLE TO CLEAN THE JOB SITE AT THE END OF EACH PHASE OF WORK.
 - B. THEY WILL BE RESPONSIBLE TO REMOVE AND DISPOSE OF ALL TRASH, SCRAP AND UNUSED MATERIAL AT THEIR OWN EXPENSE IN A TIMELY MANNER.
 - C. THEY WILL BE RESPONSIBLE TO MAINTAIN THE SITE IN A NEAT, SAFE AND ORDERLY MANNER.
 - D. THEY WILL BE RESPONSIBLE TO KEEP MATERIALS, EQUIPMENT, AND TRASH OUT OF THE WAY OF OTHER CONTRACTORS SO AS NOT TO DELAY THE JOB. FAILURE TO DO SO WILL RESULT IN A DEDUCTION FOR THE COST OF CLEAN UP FROM THE FINAL PAYMENT.
 - E. THEY SHALL BE RESPONSIBLE FOR THEIR OWN SAFETY, TRAFFIC CONTROL, PERMITS, RETESTING AND RE-INSPECTION AT THEIR OWN EXPENSE.
- 11.THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS

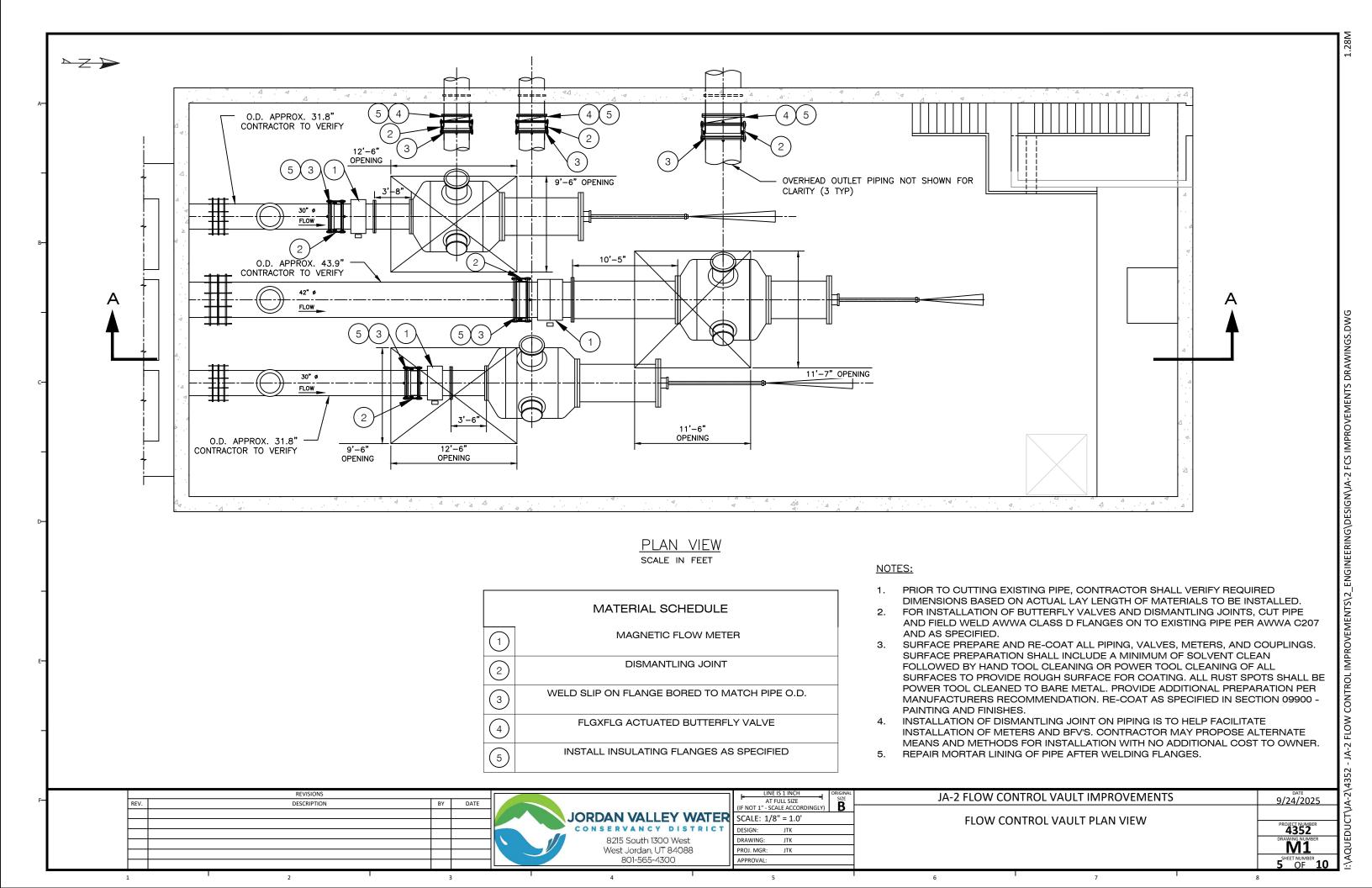
- PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- 12.IF EXISTING IMPROVEMENTS NEED
 TO BE DISTURBED AND/OR REMOVED
 FOR THE PROPER PLACEMENT OF
 IMPROVEMENTS TO BE
 CONSTRUCTED BY THESE PLANS, THE
 CONTRACTOR SHALL BE
 RESPONSIBLE FOR PROTECTING
 EXISTING IMPROVEMENTS FROM
 DAMAGE. COST OF REPLACING OR
 REPAIRING EXISTING IMPROVEMENTS
 SHALL BE INCLUDED IN THE UNIT
 PRICE BID. THERE WILL BE NO EXTRA
 COST DUE TO THE CONTRACTOR FOR
 REPLACING OR REPAIRING EXISTING
 IMPROVEMENTS.
- 13. WHENEVER EXISTING FACILITIES ARE REMOVED, DAMAGED, BROKEN, OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE PLANS OR SPECIFICATIONS, SAID FACILITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE, AFTER PROPER BACKFILLING AND/OR CONSTRUCTION, WITH MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL EXISTING FACILITIES. THE FINISHED PRODUCT SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER. THE ENGINEER, AND THE RESPECTIVE REGULATORY AGENCY.
- 14.THE CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF AS-BUILT RECORD DRAWINGS SHOWING THE FINAL LOCATION, DIMENSION, AND LAYOUT OF ALL STRUCTURES AND OTHER FACILITIES. AS-BUILT RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, MODIFICATIONS, AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED, WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR, PRIOR TO ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL DELIVER TO THE ENGINEER, ONE SET OF NEATLY MARKED AS-BUILT RECORD DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. AS-BUILT RECORD DRAWINGS SHALL BE REVIEWED AND THE COMPLETE AS-BUILT RECORD DRAWING SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS REDLINED AS PRECONDITION TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL ACCEPTANCE.
- 15.WORK IN ANY EASEMENT AND/OR RIGHT-OF-WAY IS SUBJECT TO THE

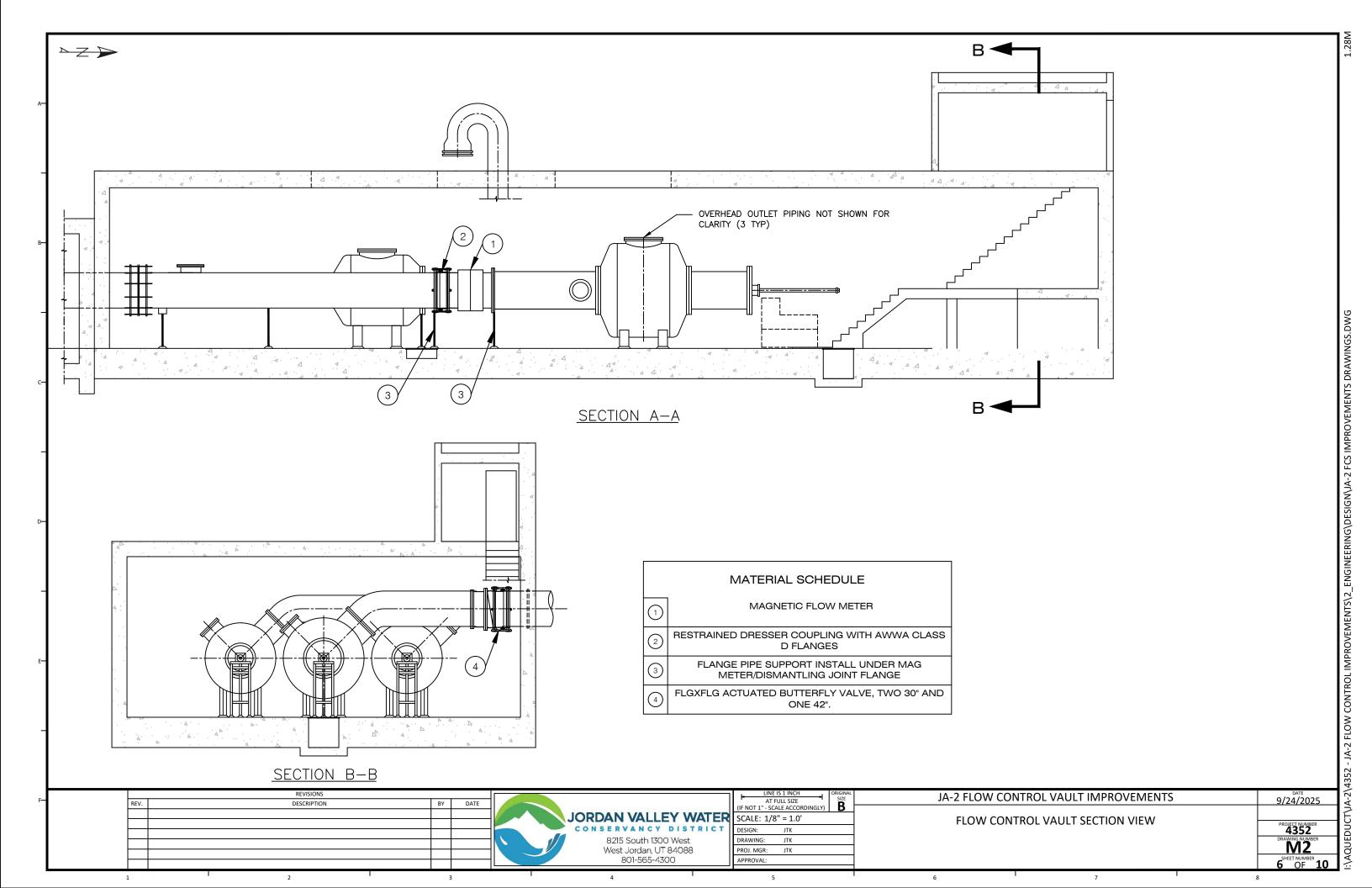
- APPROVAL AND ACCEPTANCE OF THE REGULATORY AGENCY RESPONSIBLE FOR OPERATION AND/OR MAINTENANCE OF SAID EASEMENT AND/OR RIGHT-OF-WAY.
- 16.UPON SUBSTANTIAL COMPLETION OF WORK, THE CONTRACTOR SHALL BROOM SWEEP EACH SITE PRIOR TO CALLING FOR INSPECTION.
- 17.JVWCD STAFF WILL SERVE AS ENGINEER ON THIS PROJECT.
- 18.THE ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MOST RECENTLY ADOPTED REQUIREMENTS OF THE INTERNATIONAL MECHANICAL CODE, INTERNATIONAL PLUMBING CODE, INTERNATIONAL BUILDING CODE, NATIONAL ELECTRICAL CODE, AND ALL OTHER APPLICABLE CITY, COUNTY, STATE, AND NATIONAL CODES AND REGULATIONS IN EFFECT AT THE DATE OF THE BID.
- 19.CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
- 20.ANY PART OF THIS INSTALLATION THAT FAILS, IS UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 21.ALL EQUIPMENT SHALL BE
 INSTALLED IN STRICT ACCORDANCE
 WITH THE EQUIPMENT
 MANUFACTURER'S
 RECOMMENDATIONS. PROVIDE ALL
 FITTINGS, TRANSITIONS, AND OTHER
 DEVICES/ACCESSORIES REQUIRED
 FOR A COMPLETE WORKABLE
 INSTALLATION.
- 22.CONTRACTOR IS REQUIRED FOR ALL MATERIAL TESTING COSTS.

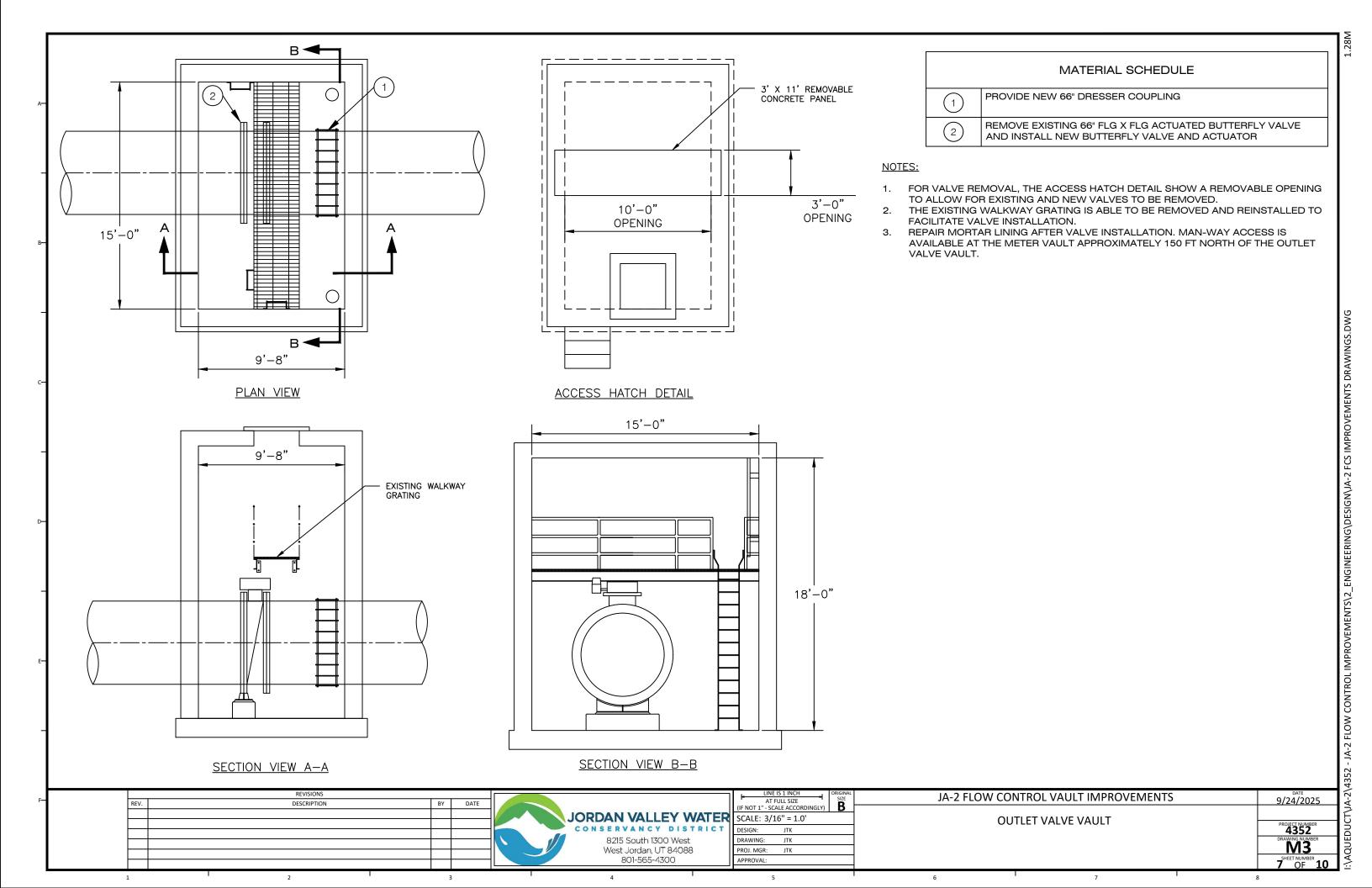
REVISIONS JA-2 FLOW CONTROL VAULT IMPROVEMENTS AT FULL SIZE DESCRIPTION BY DATE IF NOT 1" - SCALE ACCORDINGLY) JORDAN VALLEY WATER SCALE: **GENERAL NOTES** DESIGN: DRAWING: JTK 8215 South 1300 West West Jordan, UT 84088 PROJ. MGR: JTK 801-565-4300 APPROVAL:

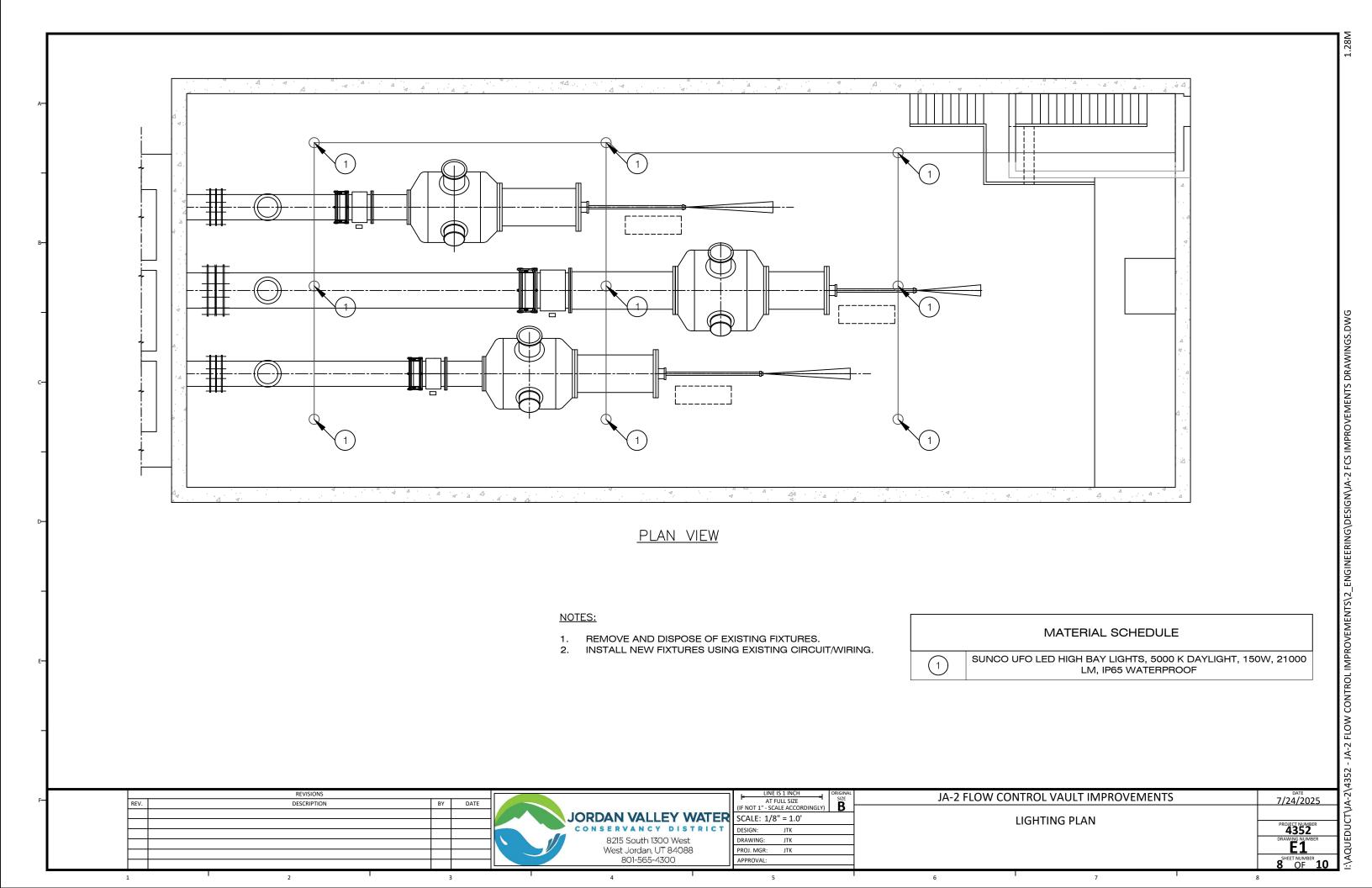


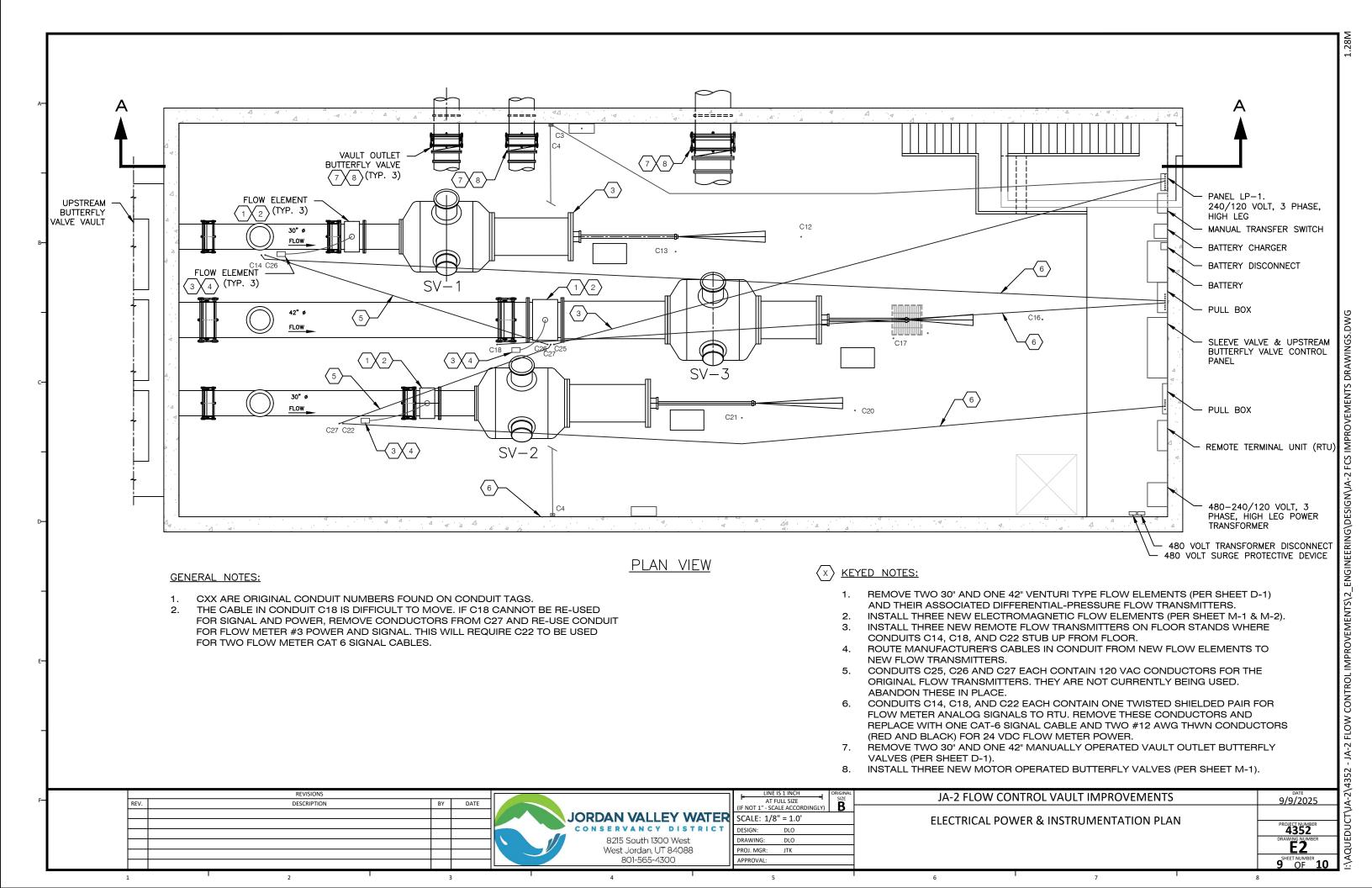












GENERAL NOTES:

- ALL CONDUITS SHALL BE RIGID GALVANIZED STEEL (RGS) OR LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC).
- USE LFMC NEXT TO THE BUTTERFLY VALVE OPERATORS, MAXIMUM LENGTH 3 FEET.
- CONDUIT BODIES AND BOXES SHALL BE GALVANIZED CAST IRON.
- CONDUCTORS SHALL BE STRANDED COPPER.
- 5. USE BACKSTRAP CLAMPS TO FASTEN CONDUITS TO WALL.
- ROUTE CONDUITS AGAINST THE WALL AND BEHIND THE EXISTING FAN & HEATER ASSEMBLY.
- PART OF FAN & HEATER ASSEMBLY MAY NEED TO BE TEMPORARILY REMOVED THEN RE-INSTALLED IN ORDER TO REPLACE ADJACENT BUTTERFLY VALVE.
- ELECTRIC POWER DISCONNECT SWITCH FOR EACH VALVE OPERATOR SHALL BE HUBBELL HBLDS3.
- VALVE REMOTE CONTROL DEVICE SHALL BE FURNISHED BY VALVE OPERATOR MANUFACTURER.
- PANEL LP-1 IS A 240/120 VOLT, 3 PHASE, HIGH LEG PANEL. ONLY 3 POLE, 3 PHASE BREAKERS MAY CONNECT TO THE HIGH LEG.

KEYED NOTES:

- **EXISTING ITEM TO REMAIN**
- **NEW ITEM**
- REMOVE EXISTING MANUAL BUTTERFLY VALVE AND INSTALL A NEW ELECTRICALLY OPERATED BUTTERFLY VALVE PER SHEET M-2.
- MOUNT BUTTERFLY VALVE REMOTE CONTROL ENCLOSURE 5' ABOVE FLOOR TO TOP.
- MOUNT ELECTRIC POWER DISCONNECT SWITCH 5' ABOVE FLOOR TO TOP.
- DRILL HOLE FOR 3" CONDUIT IN THE SIDE OF THE EXISTING PORTABLE HEATER RECEPTACLE BOX. INSTALL CONDUIT FROM BOX TO CROSS IN FRONT OF EXISTING 3" RECEPTACLE CONDUIT AND 1" WATER PIPE, THEN TO A HORIZONTAL & VERTICAL CONDUIT RUN TO FEED THREE DISCONNECTS FOR NEW BFVs.
- 7. INSTALL 3" CONDUITS BETWEEN EACH DISCONNECT AND BFV OPERATOR, INSTALL FOUR #12 AWG CONDUCTORS FROM EACH BFV DISCONNECT TO EACH BFV OPERATOR.
- INSTALL & CONDUIT AND REQUIRED CONDUCTORS BETWEEN EACH REMOTE CONTROL ENCLOSURE AND BFV OPERATOR.
- REMOVE THREE #10 AWG CONDUCTORS FROM C3 WHICH PRESENTLY FEED THE WEST PORTABLE HEATER RECEPTACLE. RETAIN CONDUCTORS WHICH FEED THE EAST PORTABLE HEATER RECEPTACLE THROUGH C4. INSTALL ONE THREE PHASE CIRCUIT CONSISTING OF FOUR #12 AWG STRANDED COPPER CONDUCTORS (BLACK, RED, BLUE, GREEN) FROM LP-1 TO THE THREE BFV DISCONNECTS, ONE CIRCUIT TO FEED ALL THREE DISCONNECTS.
- 10. INSTALL A BLANK COVER ON THE WEST PORTABLE HEATER RECEPTACLE BOX.
- 11. REMOVE THE 2 POLE, 30 AMP WEST PORTABLE HEATER BREAKER IN PANEL LP-1. RE-ARRANGE CIRCUIT BREAKERS AS NECESSARY AND INSTALL A 3 POLE, 20 AMP BREAKER, EATON QBHW3020H, IN THE PANEL TO FEED THE NEW BFV OPERATORS.

CONTROL (1YP3) CONDUIT C3 (1X9) (1) 3/4" RECEPTACLE CONDUIT C3 (1X9) SECTION A—A WEST WALL ELEVA	MENTS DRAWINGS
GENERAL NOTES: 1. ALL CONDUITS SHALL BE RIGID GALVANIZED STEEL (RGS) OR LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC). 2. USE LFMC NEXT TO THE BUTTERFLY VALVE OPERATORS, MAXIMUM LENGTH 3 FEET. 3. CONDUIT BODIES AND BOXES SHALL BE GALVANIZED CAST IRON. 4. CONDUCTORS SHALL BE STRANDED COPPER. 5. USE BACKSTRAP CLAMPS TO FASTEN CONDUITS TO WALL. 6. ROUTE CONDUITS AGAINST THE WALL AND BEHIND THE EXISTING FAN & HEATER ASSEMBLY. 7. PART OF FAN & HEATER ASSEMBLY MAY NEED TO BE TEMPORARILY REMOVED THEN RE-INSTALLED IN ORDER TO REPLACE ADJACENT BUTTERFLY VALVE. 8. ELECTRIC POWER DISCONNECT SWITCH FOR EACH VALVE OPERATOR SHALL BE HUBBELL HBLDS3. 9. VALVE REMOTE CONTROL DEVICE SHALL BE FURNISHED BY VALVE OPERATOR MANUFACTURER. 10. PANEL LP-1 IS A 240/120 VOLT, 3 PHASE, HIGH LEG PANEL. ONLY 3 POLE, 3 PHASE BREAKERS MAY CONNECT TO THE HIGH LEG.	1. EXISTING ITEM TO REMAIN 2. NEW ITEM 3. REMOVE EXISTING MANUAL BUTTERFLY VALVE AND INSTALL A NEW ELECTRICALLY OPERATED BUTTERFLY VALVE PER SHEET M-2. 4. MOUNT BUTTERFLY VALVE REMOTE CONTROL ENCLOSURE 5' ABOVE FLOOR TO TOP. 5. MOUNT ELECTRIC POWER DISCONNECT SWITCH 5' ABOVE FLOOR TO TOP. 6. DRILL HOLE FOR CONDUIT IN THE SIDE OF THE EXISTING PORTABLE HEATER RECEPTACLE BOX. INSTALL CONDUIT FROM BOX TO CROSS IN FRONT OF EXISTING "RECEPTACLE CONDUIT AND 1" WATER PIPE, THEN TO A HORIZONTAL & VERTICAL CONDUIT RUN TO FEED THREE DISCONNECTS FOR NEW BFVS. 7. INSTALL CONDUCTORS FROM EACH BFV DISCONNECT AND BFV OPERATOR. 8. INSTALL CONDUCTORS FROM EACH BFV DISCONNECT TO EACH BFV OPERATOR. 9. REMOVE THERE #10 AWG CONDUCTORS BETWEEN EACH REMOTE CONTROL ENCLOSURE AND BFV OPERATOR. 9. REMOVE THERE #10 AWG CONDUCTORS FROM C3 WHICH PRESENTLY FEED THE WEST PORTABLE HEATER RECEPTACLE. RETAIN CONDUCTORS WHICH FEED THE EAST PORTABLE HEATER RECEPTACLE. RETAIN CONDUCTORS WHICH FEED THE EAST PORTABLE HEATER RECEPTACLE. RETAIN CONDUCTORS (BLACK, RED, BLUE, GREEN) FROM LP-1 TO THE THREE BFV DISCONNECTS. ONE CIRCUIT TO FEED ALL THREE DISCONNECTS. 10. INSTALL A BLANK COVER ON THE WEST PORTABLE HEATER RECEPTACLE BOX. 11. REMOVE THE 2 POLE, 30 AMP WEST PORTABLE HEATER RECEPTACLE BOX. 12. REMOVE THE 2 POLE, 30 AMP WEST PORTABLE HEATER BREAKER IN PANEL LP-1. RE-ARRANGE CIRCUIT BREAKERS AS NECESSARY AND INSTALL A 3 POLE, 20 AMP BREAKER, EATON QBHW3020H, IN THE PANEL TO FEED THE NEW BFV OPERATORS.
JORDAN VALLEY WATER S CONSERVANCY DISTRICT 8215 South 1300 West West Jordan, UT 84088	LINE IS 1 INCH AT FULL SIZE B JA-2 FLOW CONTROL VAULT IMPROVEMENTS 9/9/2025 SCALE: 1/8" = 1.0' WEST WALL ELEVATION PROJECT NUMBER 4352 DRAWING: DLO PROJ. MGR: JTK APPROVAL: DRAWING STORM