



Jordan Valley Water Conservancy District

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

SWGWTP CHEMICAL FEED MODIFICATIONS

8215 SOUTH 1300 WEST
 WEST JORDAN, UTAH 84088

PROJECT NUMBER: 4369
 April 2026



Know what's below.
 Call before you dig.

REVISIONS			
REV.	DESCRIPTION	BY	DATE



LINE IS 1 INCH AT FULL SIZE (IF NOT 1" - SCALE ACCORDINGLY)	ORIGINAL SIZE B
SCALE: NTS	
DESIGN: JS	
DRAWING: TMP	
PROJ. MGR: JS	
APPROVAL:	

SWGWTP CHEMICAL FEED MODIFICATIONS
COVER SHEET

DATE 4/14/26
PROJECT NUMBER 4369
DRAWING NUMBER G1
SHEET NUMBER 1 OF 6



8215 SOUTH 1300 WEST, WEST JORDAN, UTAH 84088

REVISIONS			
REV.	DESCRIPTION	BY	DATE



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DESIGN: JS	
DRAWING: TMP	
PROJ. MGR: JS	
APPROVAL:	

SWGWTW CHEMICAL FEED MODIFICATIONS

PROJECT LOCATION

DATE	4/14/26
PROJECT NUMBER	4369
DRAWING NUMBER	G2
SHEET NUMBER	2 OF 6

The contractor shall carefully read all of the notes and specification, the contractor shall accept the true meaning and be responsible for complying with each.

GENERAL NOTES:

1. 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, 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.

CONCRETE:

1. Materials shall comply with the Standards specified in American Concrete Institute (ACI) 318-14, "Building Code Requirements for Structural Concrete."
2. Concrete mix design requirements shall be as follows:
 - 2.1. f'c at 28 days: 4000 psi
 - 2.2. Max W/C Ratio: 0.45
 - 2.3. Air Content: --
 - 2.4. Max Aggregate Size: 3/4"
 - 2.5. Exposure Classes*
 - 2.5.1. F0
 - 2.5.2. S2
 - 2.5.3. C2
- * Exposure Classes are per ACI 318, Section 19.3.1.1, where F, S and C are exposure categories for freezing and thawing, sulfate, and corrosion protection of reinforcement, respectively.
3. Cementitious Materials:
 - 3.1. Portland Cement (ASTM C150):
 - 3.2. Type I or II for exposure class S0.
 - 3.3. Type II or V for exposure class S1.
 - 3.4. Type V for exposure class S2 and S3.
 - 3.5. Fly Ash (ASTM C618, Class C or F): maximum fly ash content as a percentage of total weight of cementitious materials shall be 25 percent.
4. Concrete Density (Maximum Air Dry Weight):
 - 4.1. Normal weight concrete shall be approximately 145 to 155 pounds per cubic foot. Aggregate shall be ASTM C33.
 - 4.2. Lightweight concrete shall not exceed 110 pounds per cubic foot and shall be made of lightweight coarse aggregates and either lightweight and/or normal weight fines meeting ASTM C330.
5. Steel Reinforcement:
 - 5.1. ASTM A615 Grade 60, fy = 60,000 psi min. unless noted otherwise.
 - 5.2. Reinforcement at concrete moment frames, concrete shear walls, and all components of shear walls including coupling beams and wall piers shall comply with ASTM A706, Grade 60. ASTM A615 Grade 60 reinforcement shall be permitted if:
 - 5.3. The actual yield strength based on mill tests does not exceed 78,000 psi, and
 - 5.4. The ratio of actual tensile strength to the actual yield strength is not less than 1.25.
6. Concrete cover requirements for deformed bar reinforcing steel shall comply with ACI 318, "Building Code Requirements for Structural Concrete".
 - 6.1. Cast-in-place Concrete:
 - 6.1.1. Cast against and permanently exposed to earth: 3"
 - 6.1.2. Formed concrete exposed to earth or weather:
 - #6 thru #18 bars: 2"
 - #5 and smaller bars: 1.1/2"
 - 6.2. Concrete not exposed to weather or in contact with ground:
 - 6.2.1. Slabs, Walls, Joists; #11 bars and smaller: 3/4"
 - 6.2.2. Beams, Columns: primary reinforcement, ties, stirrups, spirals: 1.1/2"
 - 6.3. Concrete Tilt-Up Panels:
 - #8 and smaller bars: 1"
 - #9 thru #18 bars: 2"
 - 6.4. Pre-cast Concrete (manufactured under plant controlled conditions):
 - 6.4.1. Wall Panels #11 bars and smaller: 3/4"
 - 6.4.2. Other members #6 thru #11 bars: 1.1/2"
 - 6.4.3. Other members #5 bars and smaller: 1.1/4"

GRATING:

1. FRP grating must support 300 psf uniform load or 1200 lb/ft line load at mid point of clear span

CONCRETE COATING:

1. Containment wall shall be prepped and coated according to the following specifications
 - 1.1. Surface Preparation:
 - 1.1.1. The substrate shall be free of all wax, grease, oils,

fats, soil, loose or foreign materials and laitance. Laitance and unbounded cement particles shall be removed by mechanical methods, i.e., abrasive blasting or scarifying. Other contaminants may be removed using an industrial detergent followed by a thorough clean water rinse. Prepared surface shall show open pores throughout and have the texture of rough sandpaper.

- 1.1.2. 1st Coat:
 - 1.1.2.1. Semstone 800 Series Vinyl Ester Primer applied at 5.0 mils minimum wet film thickness to achieve 5.0 mils minimum dry film thickness.
- 1.1.3. 2nd Coat:
 - 1.1.3.1. Semstone 870 Vinyl Ester Lining applied at 50.0 mils minimum wet film thickness to achieve 50.0 mils minimum dry film thickness. Apply fiberglass scrim cloth itro th ewet film and then broadcast 20 mesh aggregate onto the surface at a rate of two pounds per square foot. Allow material to dry thoroughly and remove all loose remaining aggregate.
- 1.1.4. 3rd Coat:
 - 1.1.4.1. Semstone 870 Vinyl Ester Lining applied at 15.0 mils minimum wet film thickness to achieve 15.0 mils minimum dry film thickness.

ABBREVIATIONS:

CONC	CONCRETE
FRP	FIBER REINFORCED PLASTIC
NTS	NOT TO SCALE
TYP	TYPICAL
EX	EXISTING

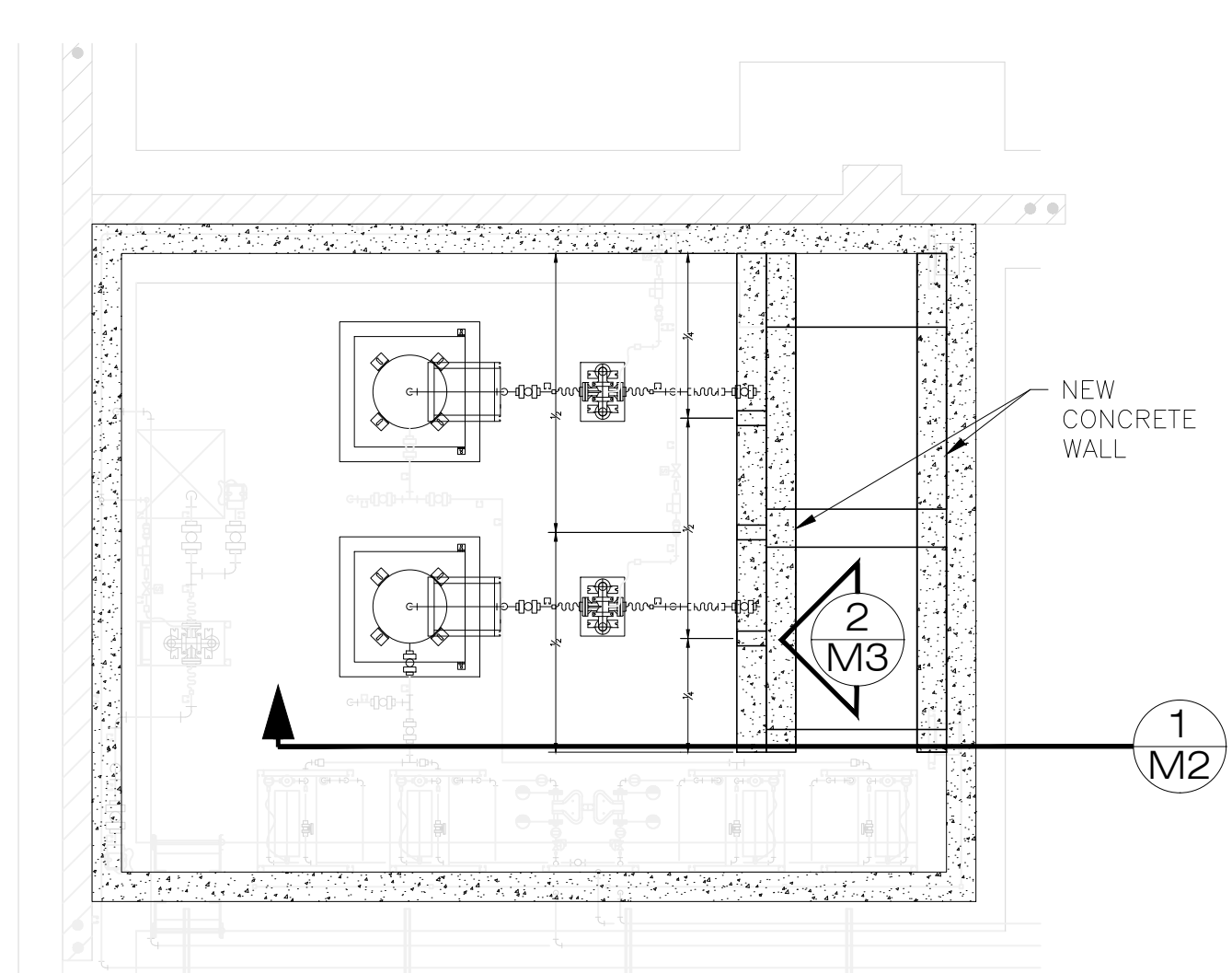
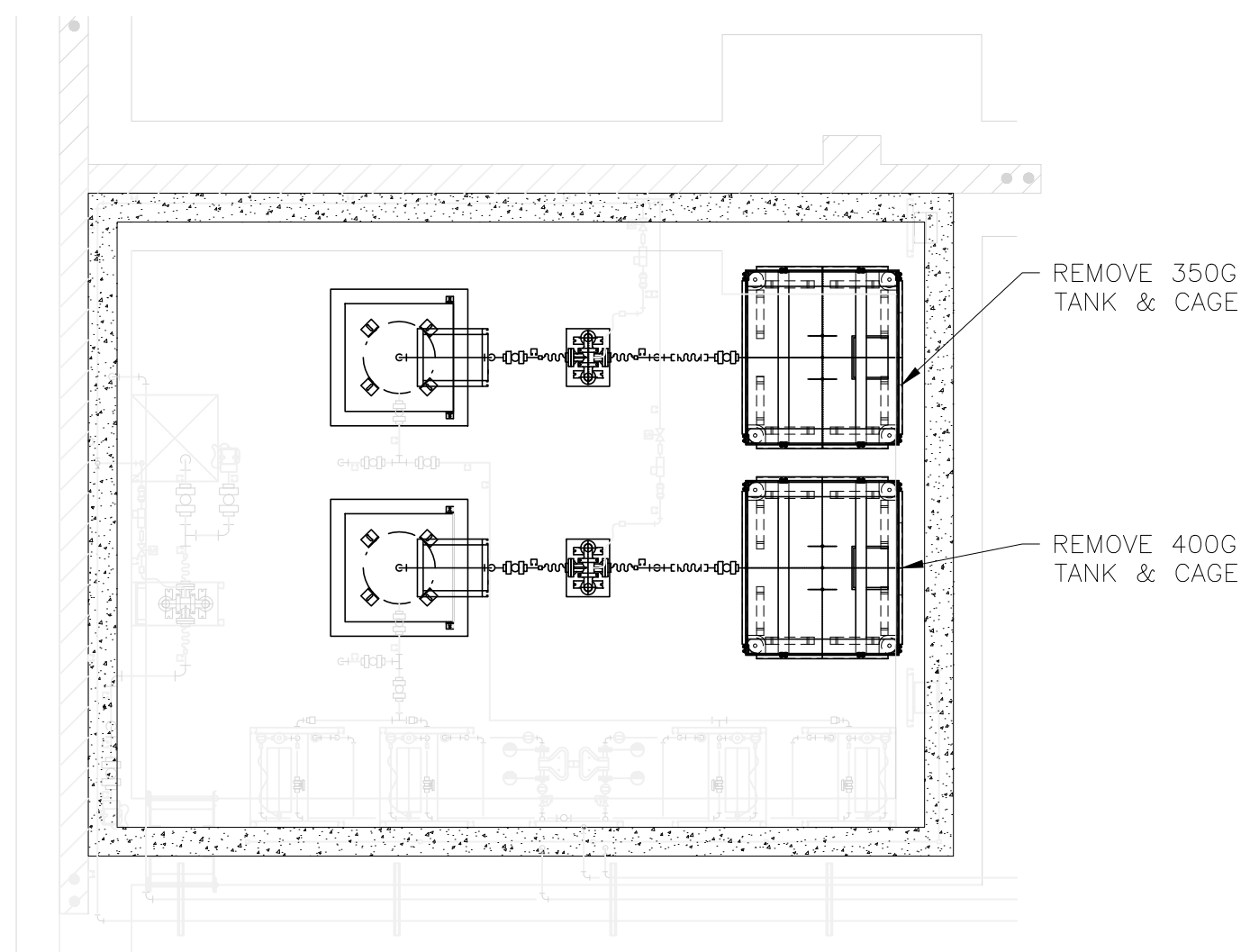
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APPROVAL:	

SWGWT Chemical Feed Modifications	
GENERAL NOTES	

DATE	4/14/26
PROJECT NUMBER	4369
DRAWING NUMBER	G3
SHEET NUMBER	3 OF 6



1 EXISTING LAYOUT
SCALE: 1/4" = 1'-0"

2 NEW LAYOUT
SCALE: 1/4" = 1'-0"

REVISIONS			
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JORDAN VALLEY WATER
CONSERVANCY DISTRICT
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088-0070
PHONE (801) 565-4300

LINE IS 1 INCH
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APPROVAL:

ORIGINAL SIZE **B**

SWGWTP CHEMICAL FEED MODIFICATIONS

PLAN VIEW

DATE
4/14/26

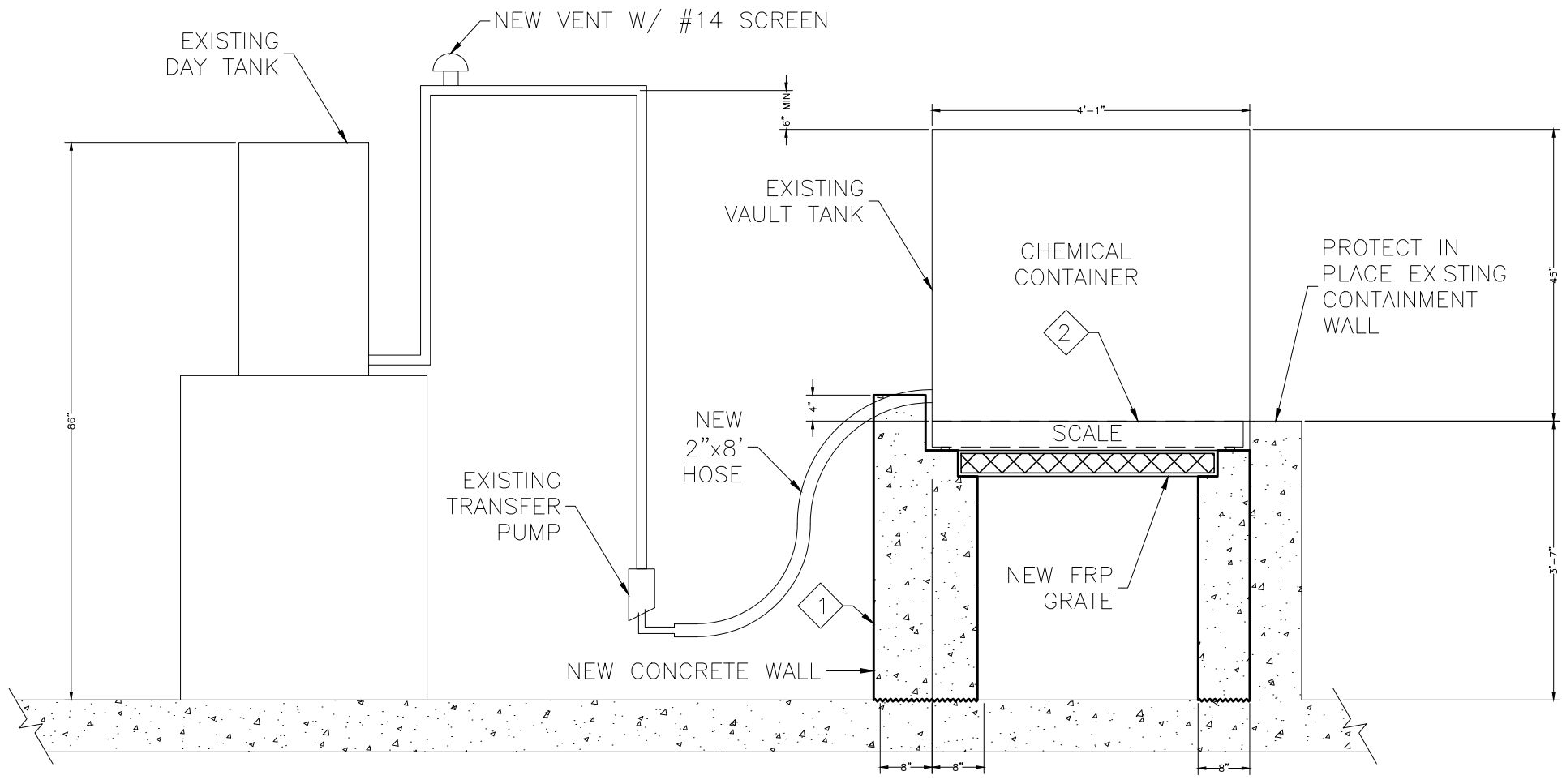
PROJECT NUMBER
4369

DRAWING NUMBER
M1

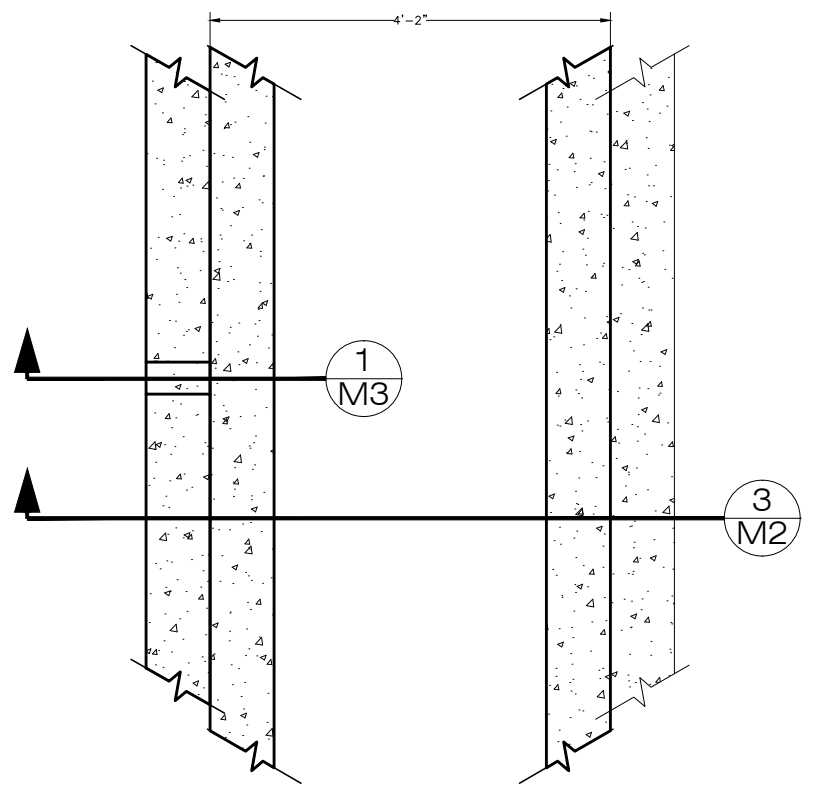
SHEET NUMBER
4 OF 6

KEY NOTES

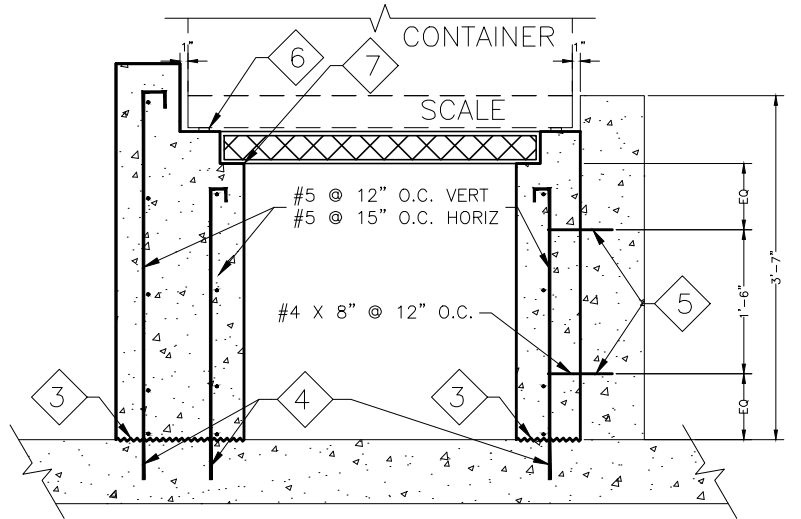
- 1 PROVIDE COATING ON NEW WALL
- 2 TOP OF SCALE TO MATCH ELEVATION OF EXISTING CONTAINMENT WALL
- 3 INTENTIONALLY ROUGHEN SURFACE TO 1/4" APTITUDE
- 4 DOWEL INTO EXISTING CONCRETE WITH HILTI HY-200 V3 WITH 5" EMBEDMENT
- 5 DOWEL INTO EXISTING CONCRETE WITH HILTI HY-200 V3 WITH 4" EMBEDMENT
- 6 CONCRETE TO BE BELOW FOOT OF SCALE
- 7 FOLLOW MANUFACTURER RECOMMENDATION FOR RFP GRATE BEARING LENGTH AND ATTACHMENT



1 PROFILE VIEW
SCALE: 1/2" = 1'-0"



2 ENLARGED PLAN VIEW
SCALE: NTS



3 WALL SECTION
SCALE: 1/2" = 1'-0"

REVISIONS			
REV.	DESCRIPTION	BY	DATE

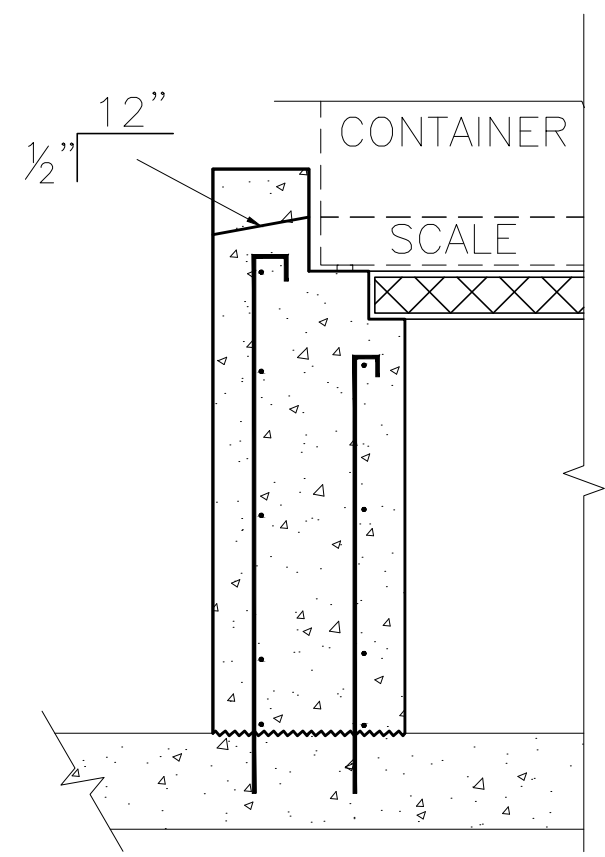
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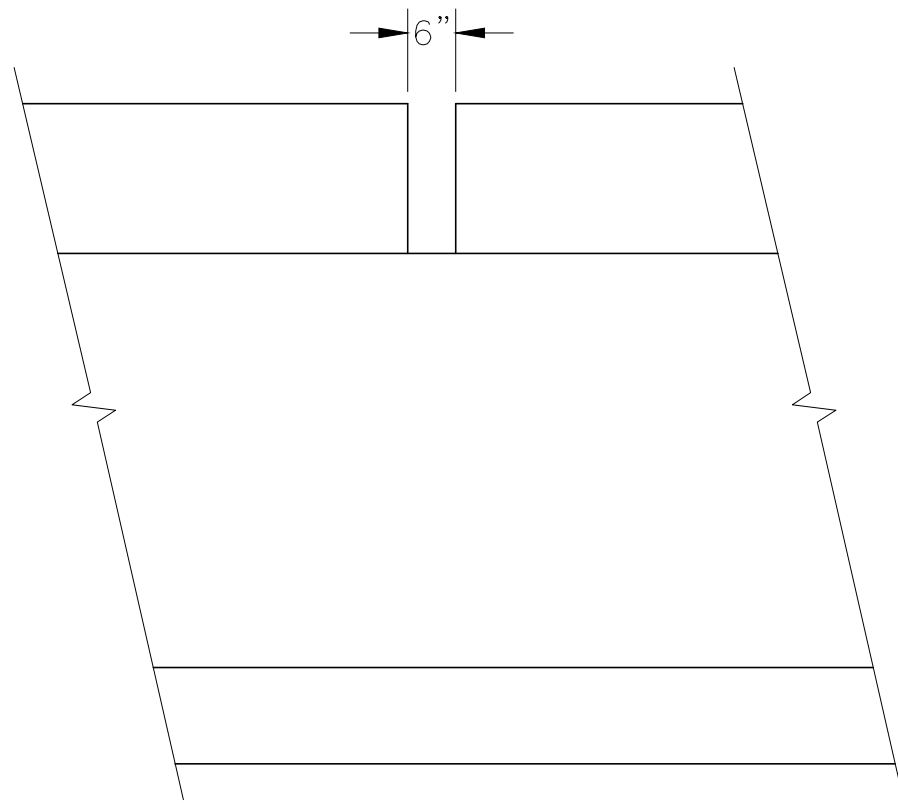
SWGTP CHEMICAL FEED MODIFICATIONS

DETAILS

DATE: 4/14/26
PROJECT NUMBER: 4369
DRAWING NUMBER: M2
SHEET NUMBER: 5 OF 6



1 WALL SECTION
M3 SCALE:NTS



2 WALL ELEVATION
M3 SCALE:NTS

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SWGWTP CHEMICAL FEED MODIFICATIONS

Details

DATE	4/14/26
PROJECT NUMBER	4369
DRAWING NUMBER	M3
SHEET NUMBER	6 OF 6