ADDENDUM NO. 1

ECHOWATER FACILITY FOG STATION SYSTEM REPAIRS PROJECT
RFB No. 8514

SACRAMENTO AREA SEWER DISTRICT
SACRAMENTO COUNTY, CALIFORNIA

RECEIPT OF THIS ADDENDUM MUST BE ACKNOWLEDGED IN THE SPACE PROVIDED IN THE RFB, APPENDIX F

Addendum No. 01 is hereby made part of SacSewer RFB No. 8514

Dated: September 22, 2025

Gerardo Aguirre, PE
Senior Civil Engineer
EchoWater Operations

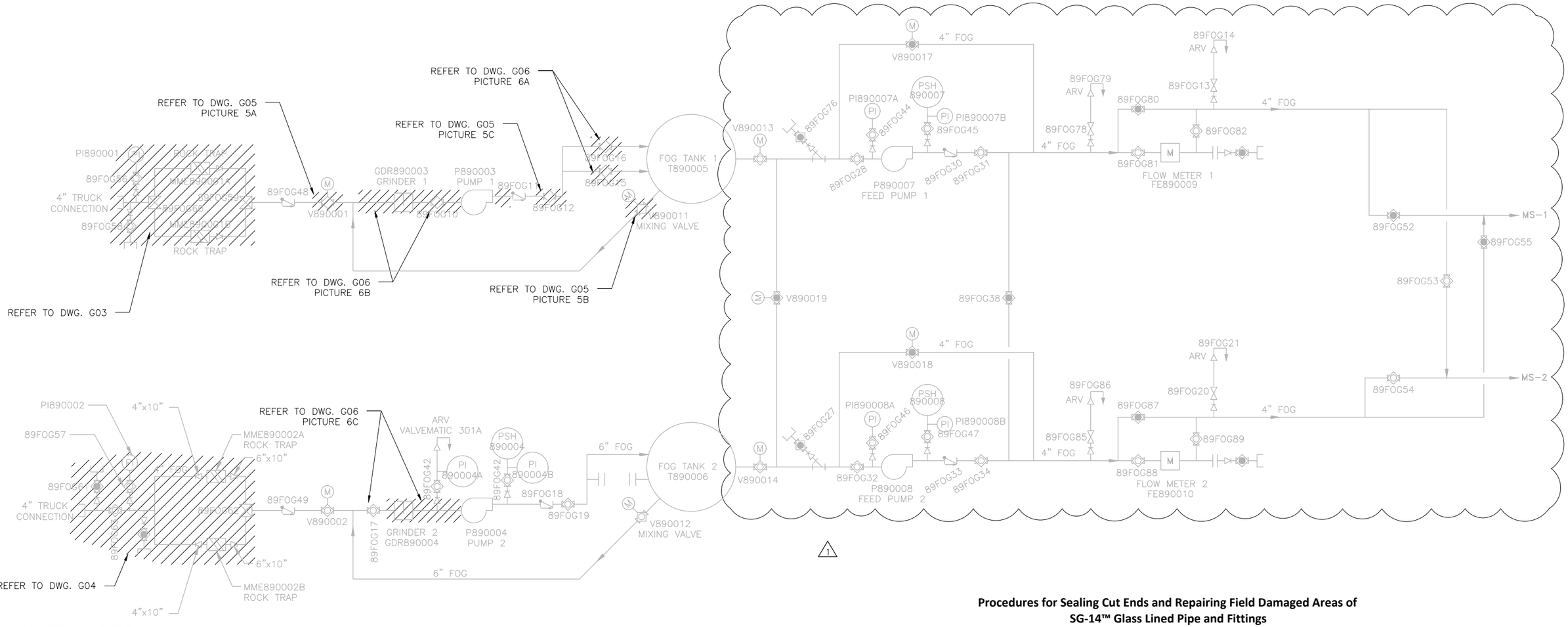
William Yu, PE
Principal Engineer
EchoWater Operations

ADDENDUM ITEM	SECTION AND PAGE OR DRAWING NO.	LOCATION AND DESCRIPTION OF CHANGE
1.01	DWG No. G02	Replace existing drawing G02 with the attached. New drawing shows equipment numbers originally omitted and does not affect the scope of work.
1.02	DWG No. G05	Replace existing drawing G05 with the attached. Add Callout/Note 4 on Detail Picture 5B: Install district provided expansion joint immediately downstream of ball valve V890011. See DWG G07 Piping Schematic.
1.03	DWG No. G07	Replace existing drawing G07 with the attached. Added scope: • Add pump callout: Contractor to reinstall district provided pump P890003 including belts connecting motor to pump. District will supply belts. • Add Expansion joint callout & Note 11: Contractor to install district provided expansion joint immediately downstream of ball valve V890011.
1.04	DWG No. G08	Replace existing drawing G08 with the attached. • Moved Equipment IDs callout: pressure gauge and ball salvaged from existing installation PI890001 & 89FOG56 and PI890002 & 89FOG57. • Add pump callout: Contractor to reinstall district provided pump P890003 including belts connecting motor to pump. District will supply belts.
1.05	DWG No. G09	Replace existing drawing G09 with the attached: • Add pump callout: Contractor to reinstall district provided pump P890003 including belts connecting motor to pump. District will supply belts.

1.06	Section 40 05 24	Section 2.05 Connection material, C. Fasteners, C. • Delete section 1 and 3. Supply fasteners as specified in section 2.
1.07	Section 46 24 23	Page 12, section 3.03 Macerator Schedule – Cutter Assembly, revise Maximum Particle Passing Size, Inch – 0.25 to Screen Size, millimeters – 34 as shown in the Figure attached.

This Addendum No. 01 shall be incorporated into, and made part of, the contract documents for RFB No. 8514, EchoWater Facility FOG Station System Repairs Project.

*****END OF SECTION*****



GENERAL NOTES:

1. WORK INVOLVES THE REPLACEMENT OF FOUR (4) SIX INCH PLUG VALVES WITH DISTRICT PROVIDED BALL VALVES. THE NEW SIX INCH BALL VALVES ARE LONGER THAN THE EXISTING VALVES AND TWO EXISTING SPOOLS SHALL BE SHORTENED. OTHER WORK COMPONENTS INCLUDES:
   - DEMOLISH TRUCK OFFLOADING PIPING, ROCK TRAPS AND THREE–WAY VALVES UP TO EXISTING CHECK VALVES.
   - DEMOLISH THE TWO GRINDERS, PIPING AND VALVES IMMEDIATELY BEFORE AND AFTER THE GRINDERS.
   - OTHER WORK AS INDICATED IN THE DRAWINGS.
2. SUBMIT FOR REVIEW A COPY OF THE CONTRACTOR'S SAFETY PLAN AND ACCESS REQUEST (AR) FOR APPROVAL IN ORDER TO SCHEDULE THE WORK. REFER TO SPEC SECTIONS 00 73 19 AND 01 14 16.
3. SUBMIT FOR REVIEW AND APPROVAL COPIES OF PROPOSED PROJECT MATERIALS.
4. WORK SHALL BE COMPLETED NO LATER THAN 180 WORKING DAYS AFTER NOTICE TO PROCEED. LIQUIDATED DAMAGES SHALL BE $500/DAY IF WORK EXTENDS BEYOND THIS PERIOD. PROVIDE A PROJECT SCHEDULE IN ACCORDANCE WITH SAC COUNTY SPEC SECTION 7–5.
5. DISPOSE OF ALL DEMOLISHED MATERIALS OFF–SITE AT THE CONTRACTOR'S EXPENSE.
6. FOG PIPING HAS A HEAT TRACING SYSTEM. PROTECT THE WIRING WHILE PERFORMING WORK AND RE–ATTACH ONCE MECHANICAL WORK IS COMPLETE.

Procedures for Sealing Cut Ends and Repairing Field Damaged Areas of SG-14™ Glass Lined Pipe and Fittings

1. **Remove burrs caused by field cutting of ends or handling damage and smooth out the edge of the lining if rough.**
2. **Remove all traces of oil, grease, asphalt, dust, dirt, etc. using a clean rag and cleaning solvent.**
3. **Remove any damaged lining caused by field cutting operations or handling and clean any exposed metal by sanding or scraping. Sandblasting or power tool cleaning or roughening is also acceptable although care should be used to not further damage the glass surface with blast media. Remove any loose lining.**
4. **With the area to be sealed or repaired absolutely clean and roughened, apply a coat of SG-14™ Glass Repair Epoxy using the following procedure:**
   - **a. The repair kit contains two small cans of a two-component epoxy, marked as Par "A", and part "B".**
   - **b. Mix thoroughly one part of the activator to 4 parts of the "base" material using the wooden paddle included in the kit.**
   - **c. Only mix as much material as will be needed within 1 hour. Once mixed, the activator will limit the usable life of the material.**
   - **d. Apply to surface to be repaired using the brush provided, overlapping onto the glass at least 1 inch onto sound SG-14™ Glass Lining.**
5. **Technical Data for SG-14™ Glass Repair Epoxy**
   - **a. Description- A brush able polyamide epoxy designed for sealing ends and repairs when pipes are lined with SG-14™ Glass Lining.**
   - **b. Limitation- Glass repair epoxy should be used over glass or bare metal for repairing cut ends of pipe or small damaged areas. The glass repair epoxy must be used over properly prepared ductile iron or steel surfaces or roughened glass surface.**
   - **c. The surface preparation shall be equal to the specifications for the project or as outlined above. Do not apply glass repair over wet or frozen surfaces or glass surfaces that have not been roughened.**
   - **d. Dry film thickness should be per specifications standards, usually 3.0-5.0 mils per coat in two coats, or 6.0-10.0 mils dry film thickness.**

SACRAMENTO AREA SEWER DISTRICT

REGISTERED PROFESSIONAL ENGINEER — GERARDO AGUIRRE — NO. C 68362 — EXP: 09/30/25 — CIVIL — STATE OF CALIFORNIA

REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.
	1	EXISTING EQUIPMENT ID ADDED	AD	09/18	

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE
DRAWN
DESIGNED
CHECKED

ECHOWATER RESOURCE RECOVERY FACILITY

RFB# 8514
CONTRACT NUMBER

GENERAL

FOG STATION SCHEMATIC DEMOLITION WORK OVERVIEW

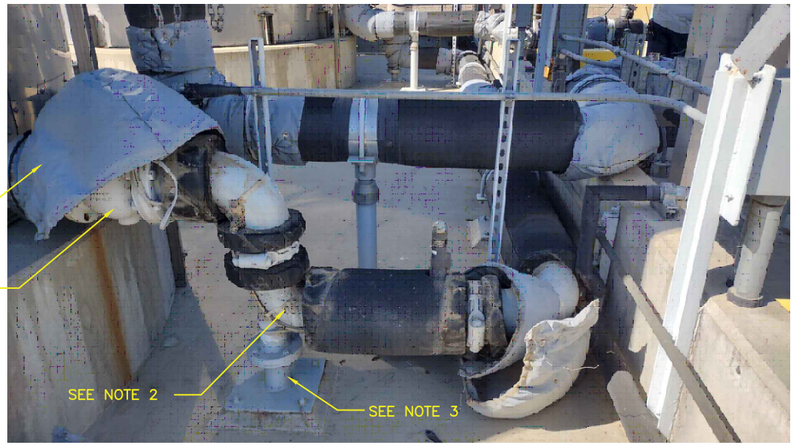
SCALE: NO SCALE

DRAWING NUMBER: G02

SHEET NUMBER: 2 OF 10

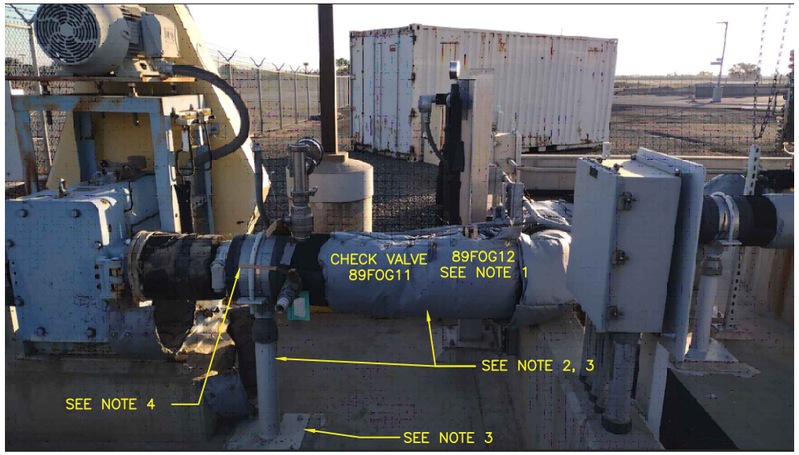
PICTURE 5A

1. REMOVE PLUG VALVE AND INSTALL 6" BALL VALVE. NEW BALL VALVE IS LONGER THAN EXISTING ONE AND WILL PUSH CHECK VALVE INTO THE FENCE.
2. MOUNT DISTRICT PROVIDED ACTUATOR ONTO NEW BALL VALVE.



PICTURE 5B

1. REMOVE PLUG VALVE AND INSTALL 6" BALL VALVE. MOUNT DISTRICT PROVIDED ACTUATOR.
2. SHORTEN SPOOL APPROXIMATELY 5", CUT-IN GROOVE FOR VICTAULIC CONNECTION AND REPAIR GLASS-LINING PER INSTRUCTIONS ON DWG. 02.
3. RELOCATE PIPE SUPPORT AS REQUIRED DUE TO SHIFT FROM LONGER BALL VALVE.
4. INSTALL DISTRICT PROVIDED EXPANSION JOINT IMMEDIATELY DOWNSTREAM OF BALL VALVE V890011. SEE DWG G07 PIPING SCHEMATIC.



PICTURE 5C

1. REMOVE PLUG VALVE AND INSTALL 6" BALL VALVE. NEW VALVE IS LONGER,
2. RELOCATE PIPE SUPPORT IN BETWEEN BALL VALVE AND CHECK VALVE. REPLACE PIPE SUPPORT HEAD WITH DISTRICT PROVIDED PIPE SUPPORT FLANGE.
3. REMOVE GROUT PAD AND ANCHOR BOLTS. PROVIDE A SMOOTH SURFACE FINISH.
4. SHORTEN SPOOL APPROXIMATELY 5". CUT-IN GROOVE FOR VICTAULIC CONNECTION AND REPAIR GLASS LINING PER DWG. 02 INSTRUCTIONS.

SACRAMENTO AREA SEWER DISTRICT

REGISTERED PROFESSIONAL ENGINEER
GERARDO AGUILAR
NO. C 68362
EXP: 09/30/25
CIVIL
STATE OF CALIFORNIA

REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.
	1	ADDITION OF EXPANSION JOINT NOTE 4	AD	09/18	

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE
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DESIGNED
CHECKED

ECHOWATER RESOURCE RECOVERY FACILITY

RFB# 8514
CONTRACT NUMBER

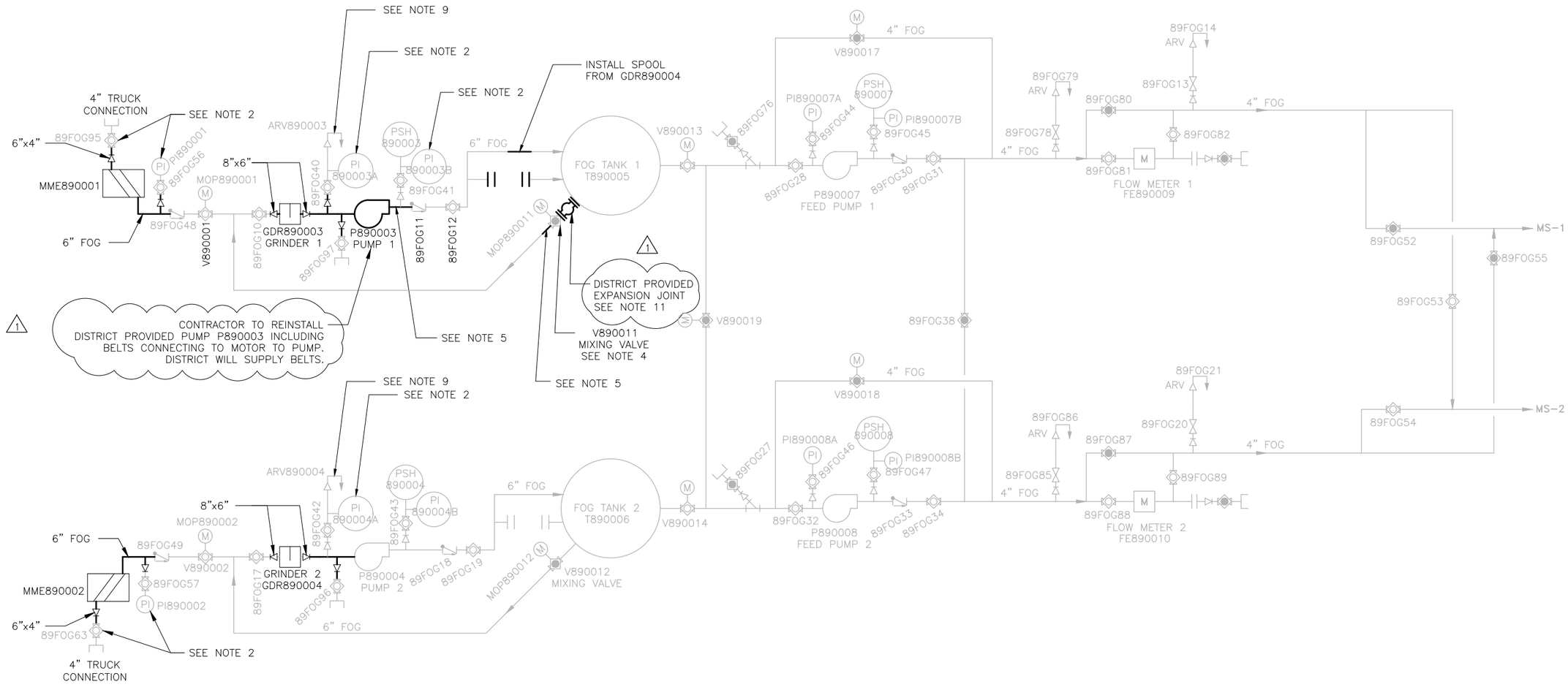
GENERAL

OFFLOADING STATION 1 PICTURES

SCALE
NO SCALE

DRAWING NUMBER
G05

SHEET NUMBER
5 OF 10



GENERAL NOTES

1. GLASS LINING FOR THE TWO SHORTENED SPOOL FITTINGS SHALL BE REPAIRED PER INSTRUCTIONS ON DWG. G02. ENSURE TO COAT OVER EDGE OF PIPE.
2. 4" BALL VALVE, PRESSURE GAUGE, AND 2" BALL VALVE ARE SALVAGED FROM EXISTING INSTALLATION.
3. PROVIDE NEW VICTAULIC GASKETS OR FLANGED GASKETS AT ALL APPLICABLE PIPING LOCATIONS.
   - 3.1. VICTAULIC GASKETS SHALL BE TYPE O, FLUOROELASTOMER (FKM).
   - 3.2. FLANGED GASKETS SHALL BE PTFE BONDED EPDM, LOW TORQUE AV GASKETS, ASAHI/AMERICA OR EQUAL.
4. 6" BALL VALVES AND ACTUATORS ARE DISTRICT PROVIDED.

SHORTENED SPOOLS CUT IN THE FIELD

5. SHORTEN EXISTING SPOOL AS REQUIRED TO FIT NEW BALL VALVE. APPLICABLE AT V890011 AND 89FOG11.
6. ENSURE GROOVE AREA IS CLEAN, FREE OF OIL, GREASE AND DIRT.
7. APPLY TWO COATS OF MULTIPURPOSE EPOXY MASTIC, PITT-GUARD 97-948, DEVOE BAR-RUST 231 LOW VOC OR EQUAL. TOTAL OF 10-14 MILS DFT.

NEW PIPE SECTIONS / SPOOLS / FITTINGS

8. REFER TO SS 40 05 24. & SS 40 05 03
9. INSTALL DISTRICT PROVIDED AIR RELIEF VALVE AND RECONSTRUCT 2" SECTION WITH PRESSURE GAUGE AS SHOWN.
10. NEW SPOOLS AND FITTINGS SHALL COME FROM FABRICATION SHOP WITH A 5-7 MIL DFT PRIME COAT. CONTRACTOR SHALL APPLY A FINISH COAT TO NEW PIPE SEGMENTS AND FITTINGS. FINISH COAT SHALL BE 5-7 MIL DFT, PITT-GUARD 97-948 OR EQUAL.

1. 11. CONTRACTOR TO INSTALL DISTRICT PROVIDED EXPANSION JOINT IMMEDIATELY DOWNSTREAM OF BALL VALVE V890011.

SACRAMENTO AREA SEWER DISTRICT

REGISTERED PROFESSIONAL ENGINEER — ALVARO AGUIRRE — NO. C 68362 EXP: 09/30/25 — CIVIL — STATE OF CALIFORNIA

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
	1	ADDED EXP. JOINT & PUMP CALLOUT/NOTE	AD	09/18	

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE
DRAWN
DESIGNED
CHECKED

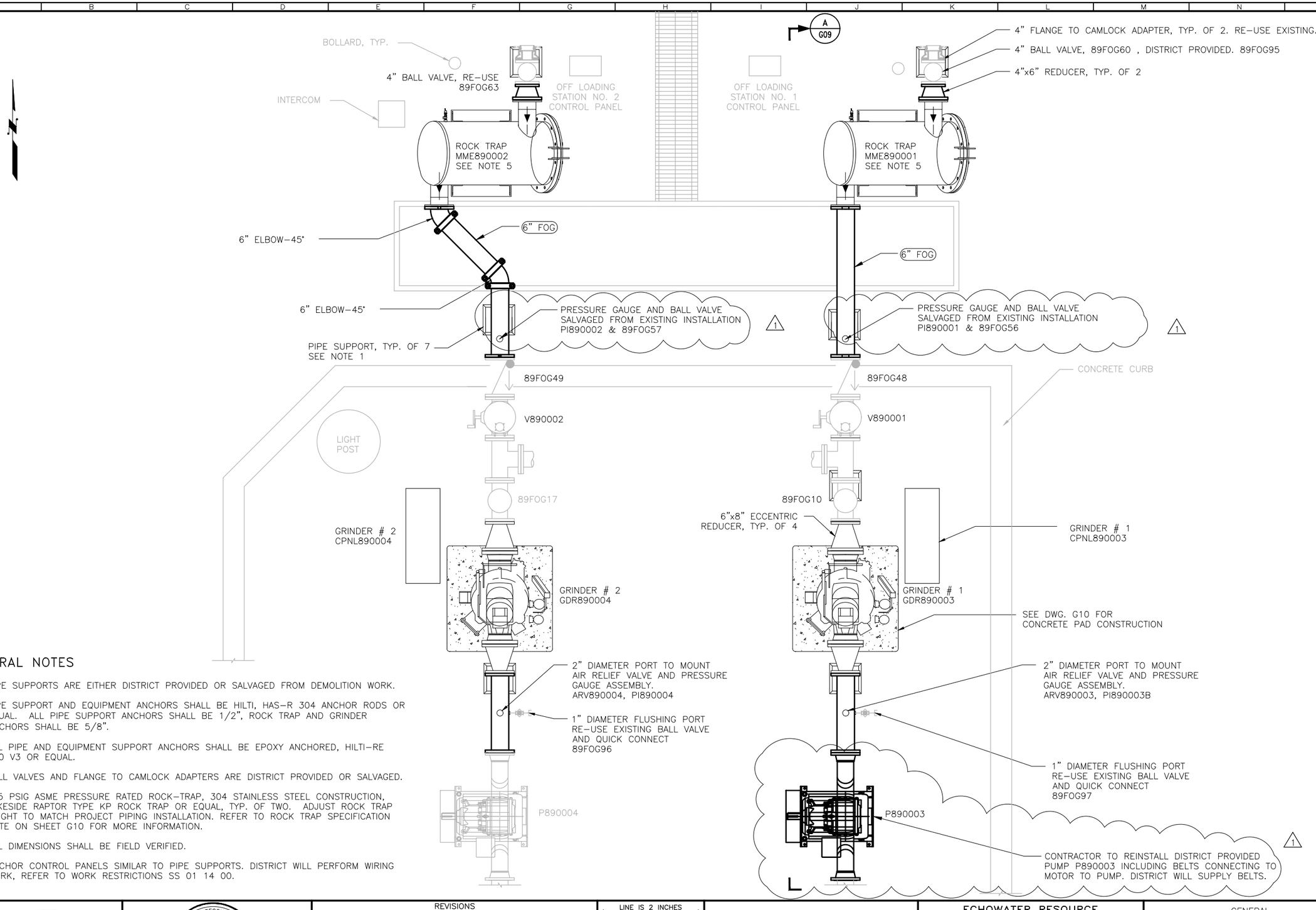
ECHOWATER RESOURCE RECOVERY FACILITY

RFB# 8514
CONTRACT NUMBER

GENERAL

FOG STATION
REVISED PIPING SCHEMATIC

SCALE: NO SCALE
DRAWING NUMBER: G07
SHEET NUMBER: 7 OF 10



GENERAL NOTES

1. PIPE SUPPORTS ARE EITHER DISTRICT PROVIDED OR SALVAGED FROM DEMOLITION WORK.
2. PIPE SUPPORT AND EQUIPMENT ANCHORS SHALL BE HILTI, HAS-R 304 ANCHOR RODS OR EQUAL. ALL PIPE SUPPORT ANCHORS SHALL BE 1/2", ROCK TRAP AND GRINDER ANCHORS SHALL BE 5/8".
3. ALL PIPE AND EQUIPMENT SUPPORT ANCHORS SHALL BE EPOXY ANCHORED, HILTI-RE 500 V3 OR EQUAL.
4. BALL VALVES AND FLANGE TO CAMLOCK ADAPTERS ARE DISTRICT PROVIDED OR SALVAGED.
5. 125 PSIG ASME PRESSURE RATED ROCK-TRAP, 304 STAINLESS STEEL CONSTRUCTION, LAKESIDE RAPTOR TYPE KP ROCK TRAP OR EQUAL, TYP. OF TWO. ADJUST ROCK TRAP HEIGHT TO MATCH PROJECT PIPING INSTALLATION. REFER TO ROCK TRAP SPECIFICATION NOTE ON SHEET G10 FOR MORE INFORMATION.
6. ALL DIMENSIONS SHALL BE FIELD VERIFIED.
7. ANCHOR CONTROL PANELS SIMILAR TO PIPE SUPPORTS. DISTRICT WILL PERFORM WIRING WORK, REFER TO WORK RESTRICTIONS SS 01 14 00.

SACRAMENTO AREA SEWER DISTRICT

REGISTERED PROFESSIONAL ENGINEER GERARDO AGUIRRE NO. C 68362 EXP: 09/30/25 CIVIL STATE OF CALIFORNIA

REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.
	1	EQUIP. ID MOVED & PUMP CALLOUT NOTE	AD	09/18	

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

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DESIGNED
CHECKED

ECHOWATER RESOURCE RECOVERY FACILITY

RFB# 8514
CONTRACT NUMBER

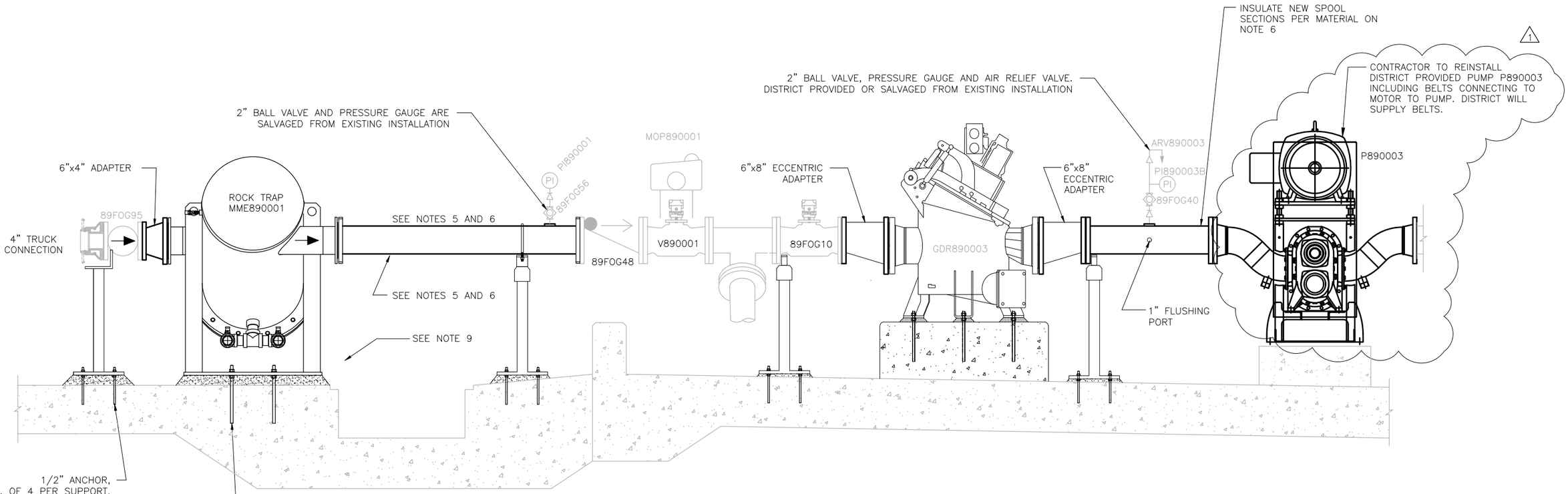
GENERAL

FOG STATION OFFLOADING PARTIAL PLAN

SCALE 1" = 1.5 FT

DRAWING NUMBER G08

SHEET NUMBER 8 OF 10



FOG SYSTEM TRUCK OFFLOADING (A / G08)

1 IN = 1 FT
HALF SCALE

GENERAL NOTES

1. PIPE SUPPORTS ARE EITHER DISTRICT PROVIDED OR SALVAGED FROM DEMOLITION WORK.
2. PIPE SUPPORT AND EQUIPMENT ANCHORS SHALL BE HILTI, HAS–R 304 ANCHOR RODS OR EQUAL. ALL PIPE SUPPORT ANCHORS SHALL BE 1/2" AND ROCK TRAP ANCHORS SHALL BE 5/8".
3. ALL PIPE SUPPORT AND ROCK TRAP ANCHORS SHALL BE EPOXY ANCHORED, HILTI–RE 500 V3 OR EQUAL.
4. BALL VALVES AND FLANGE TO CAMLOCK ADAPTERS ARE DISTRICT PROVIDED OR SALVAGED.
5. FOG PIPING HAS HEAT TRACE CABLES. PROTECT DURING DISASSEMBLY AND RE–ATTACH ONTO NEW PIPING LEADING TO ROCK TRAPS.
6. INSULATE NEW PIPING UP TO ROCK TRAPS USING 2" THICK, EPDM ELASTOMETRIC TUBE INSULATION, AEROCEL/AEROFLEX USA, INC. OR EQUAL.
7. RE–USE INSULATION BLANKETS AND INSTALL AT PIPING CONNECTION POINTS.
8. PROVIDE GROUT PADS UNDER ALL PIPE SUPPORTS AND EQUIPMENT SUPPORTS.
9. 125 PSIG ASME PRESSURE RATED ROCK–TRAP, 304 STAINLESS STEEL CONSTRUCTION, LAKESIDE RAPTOR TYPE KP ROCK TRAP OR EQUAL, TYP. OF TWO. ADJUST ROCK TRAP HEIGHT TO MATCH PROJECT PIPING INSTALLATION. REFER TO ROCK TRAP SPECIFICATION ON SHEET G10 FOR MORE INFORMATION.

SACRAMENTO AREA SEWER DISTRICT

REGISTERED PROFESSIONAL ENGINEER — ALBERTO ARGUELLES — NO. C 68362 — EXP: 09/30/25 — CIVIL — STATE OF CALIFORNIA

REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.
	1	PUMP P890003 REINSTALL CALLOUT NOTE	AD	09/18	

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE
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ECHOWATER RESOURCE RECOVERY FACILITY

RFB# 8514
CONTRACT NUMBER

GENERAL

FOG STATION OFFLOADING PARTIAL CROSS SECTION

SCALE: 1 IN = 1 FT

DRAWING NUMBER: G09

SHEET NUMBER: 9 OF 10

3.03 MACERATOR SCHEDULE

Tag Numbers	GDR890003, GDR890004
General	
Product Fluid Type	FOG / Food Processing Waste / Biological Solids / Food Waste Sludges / High Strength Waste
Rated Capacity, gpm	Greater than 300
Maximum Percent Solids, %	10
Pressure Rating, psi	29
Maximum Pressure Loss at Maximum Rated Flow, feet	3.5
Flanges	
Suction Flange Size, inches	6 or 8
Discharge Flange Size, inches	6 or 8
Clean-Out Size, inches	8
Cutter Assembly	
Screen Size, millimeters	34
Drive Motor	
Horsepower	7.5
Voltage/Phases/Hertz	460/3/60
Service Factor	1.15
Enclosure	TEFC

****END OF SECTION****