

ROCKDALE WATER RESOURCES WATER TREATMENT PLANT

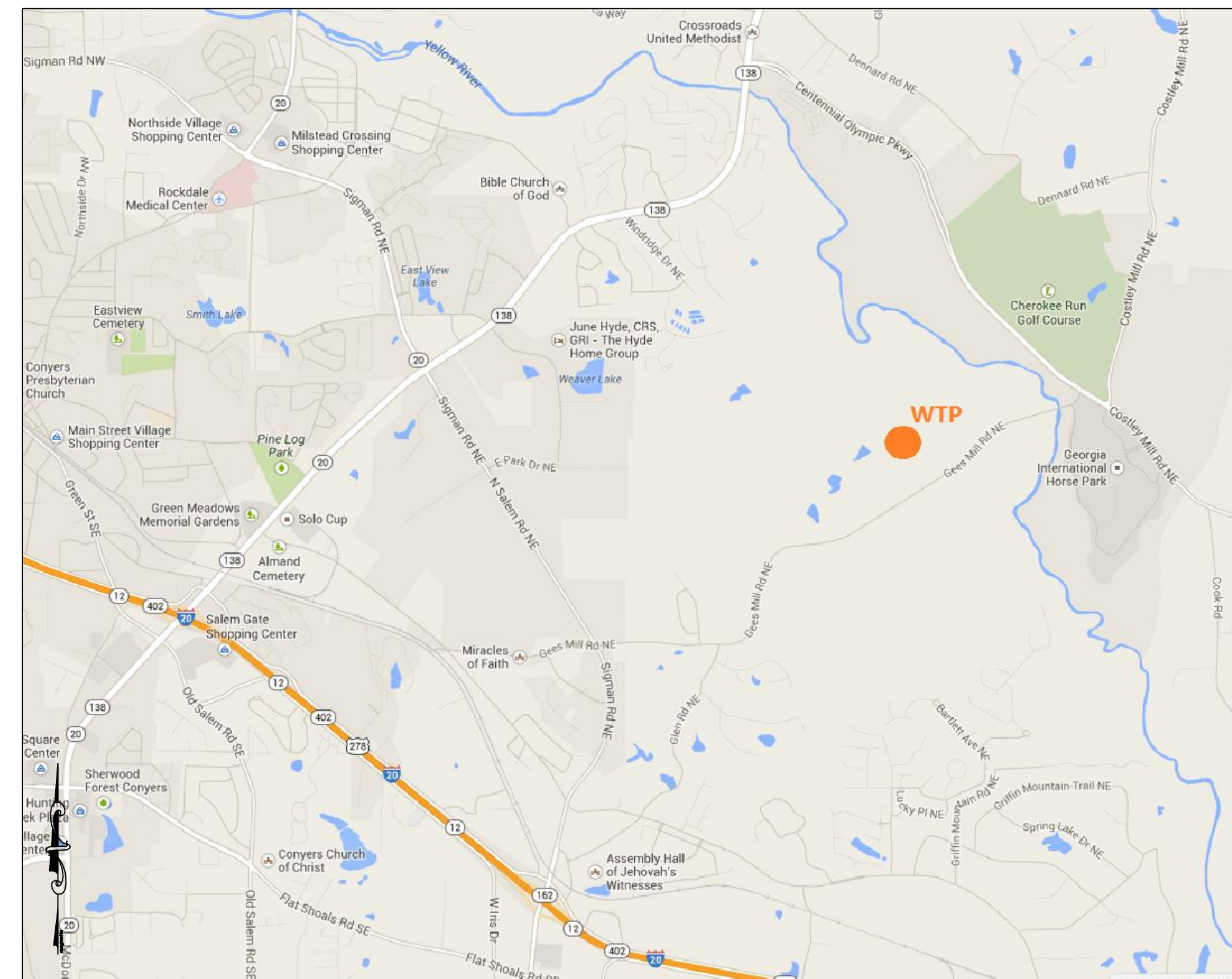
ONSITE SODIUM HYPOCHLORITE GENERATION SYSTEM REPLACEMENT

OWNER/DEVELOPER:

ROCKDALE COUNTY
DEPARTMENT OF WATER RESOURCES
1329 PORTMAN DR. SUITE H
CONYERS, GA 30094
(770)278-7450

ENGINEER:

ROCKDALE COUNTY
DEPARTMENT OF WATER RESOURCES
1329 PORTMAN DR. SUITE H
CONYERS, GA 30094
CONTACT: DAVID CERVONE
(770)278-7486



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SUITE H
CONYERS, GEORGIA 30094
PHONE (770)278-7432
FAX (770)918-6629

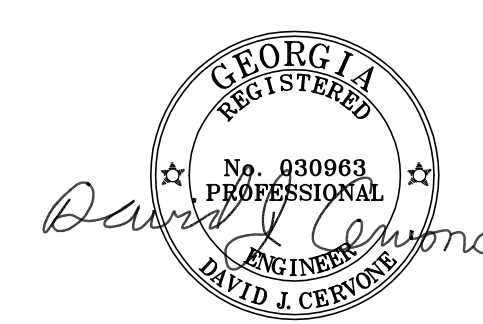


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0	04/09/14	ISSUED FOR EPD APPROVAL
A	04/29/14	ISSUED FOR BID

COVER PAGE

DESIGNED BY: DAVID CERVONE
DRAWN BY: ELIZABETH LEE
CHECKED BY: DAVID CERVONE
DATE: 4/29/2014
FILE NAME: COVER PAGE

G-00



VALVES

	BALL VALVE
	BUTTERFLY VALVE
	DIAPHRAGM VALVE
	CHECK VALVE
	PRESSURE REGULATING VALVE
	PRESSURE RELIEF VALVE
	SOLENOID VALVE
	ACTUATED BUTTERFLY VALVE
	ACTUATED DIAPHRAGM VALVE
	ACTUATED BALL VALVE

PIPING CONNECTIONS

	PIPE REDUCER
	CAPPED LINE
	FLANGE CONNECTION
	FLEX CONNECTOR/ VIBRATION ISOLATION
	GAUGE ISOLATOR
	FLOW ARROW
	DRAIN CONNECTION
	SANITARY CLAMP
	SOURCE LEADER
	LINE CONTINUATION TAG

EQUIPMENT

	CARTRIDGE FILTER HOUSING
	FLOW INDICATOR/ ROTO METER
	CENTRIFUGAL PUMP
	BLOWER

INSTRUMENTATION

	PRESSURE INDICATOR
	PANEL MOUNT PRESSURE INDICATOR
	FLOW ELEMENT
	LEVEL TRANSMITTER
	ANALYTICAL ELEMENT
	PLC TAG REFERENCE
	PLANT HMI TAG REFERENCE

LINE TYPES

	PROCESS FLOW, MAIN FLOW
	LOW CURRENT/ SIGNAL WIRING
	FUTURE EQUIPMENT, LINES, VALVES, ETC.
	SINGLE PHASE WIRING
	3 PHASE WIRING
	SKID LIMITS
	EXISTING STRUCTURES, EQUIPMENT (UNLESS INDICATED OTHERWISE)

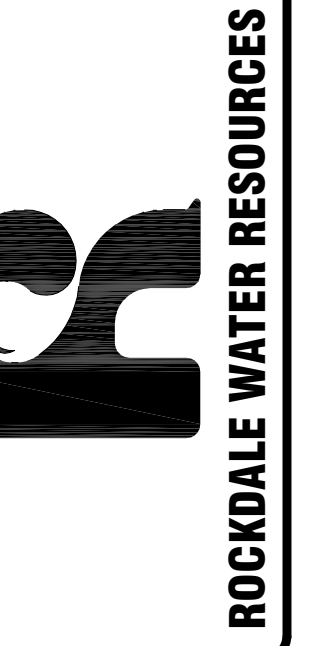
GENERAL NOTES

1. THE LOCATIONS OF EXISTING UTILITIES, SUCH AS WATER MAINS, SEWER LINES, GAS LINES, ETC., AS SHOWN ON THE PLANS, HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. HOWEVER, THE OWNER DOES NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF THE LOCATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES & UPC (811) SEVENTY-TWO HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND HAVE THEIR FACILITIES LOCATED IN THE FIELD.
2. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES BETWEEN THE PLAN AND FIELD CONDITIONS. ALL WORK SHALL ADHERE TO ROCKDALE COUNTY'S WATER AND WASTEWATER SYSTEM STANDARDS AND SPECIFICATIONS DURING CONSTRUCTION OF THE PROJECT (UNLESS INDICATED OTHERWISE).
3. NOTIFY THE APPROPRIATE INSPECTORS AT LEAST SEVENTY-TWO HOURS PRIOR TO COMMENCING CONSTRUCTION.
4. EQUIPMENT AND MATERIALS SHALL BE STORED IN AREAS DESIGNATED BY THE OWNER'S REPRESENTATIVE. CONSTRUCTION AND STORAGE AREAS SHALL BE KEPT NEAT AND CLEAN AT ALL TIMES.
5. PRIOR TO INSTALLING ANY PIPE OR STRUCTURES, THE CONTRACTOR SHALL FIELD CHECK THE LOCATION AND ELEVATION OF EXISTING UTILITIES. PIPE LOCATORS SHALL BE USED TO LOCATE EXISTING PIPELINES.
6. CONTRACTOR SHALL COMPLY WITH OSHA STANDARDS.
7. CONTRACTOR TO PROVIDE PIPE SUPPORTS.

ABBREVIATIONS

A	AIR	H2	HYDROGEN
AC	ACTIVATED CARBON	LS	LEVEL SWITCH
AE	ANALYTICAL ELEMENT	MV	MOTORIZED VALVE
AI	ANALYTICAL INDICATOR	NC	NORMALLY CLOSED
AI	ANALOG INPUT	OSHG	ONSITE SODIUM HYPOCHLORITE GENERATOR
AIT	ANALYTICAL INDICATOR TRANSMITTER	P	PUMP
AFS	AIR FLOW SWITCH	PE	POLYETHYLENE PIPING
AL	ALARM LIGHT	PI	PRESSURE INDICATOR
BFV	BUTTERFLY VALVE	PLC	PROGRAMMABLE LOGIC CONTROLLER
BRN	BRINE	PR	PRESSURE REGULATING VALVE
CP	CHEMICAL PUMP	PRV	PRESSURE RELIEF VALVE
CV	CHECK VALVE	PS	PRESSURE SWITCH
D	DRAIN	PVC 30	POLYVINYL CHLORIDE PIPING, SCHEDULE 30
DI	DIGITAL INPUT	PW	PLANT WATER
DPS	DIFF PRESSURE SWITCH	S	SOFTENER
DV	DIAPHRAGM VALVE	SFW	SOFTENED WATER
EL	ELEVATION	SHC	SODIUM HYPOCHLORITE
FE	FLOW ELEMENT	SP	SAMPLE POINT
FH	FILTER HOUSING	T	TANK
FI	FLOW INDICATOR	TE	TEMPERATURE ELEMENT
FIQ	FLOW INDICATOR/TOTALIZER	TI	TEMPERATURE INDICATOR
FIT	FLOW INDICATOR TRANSMITTER	TYP	TYPICAL
GM	GALLON METER METER	V	VALVE
		VNT	VENT

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SUITE H
CONYERS, GEORGIA 30094
PHONE (770)278-7432
FAX (770)918-6629



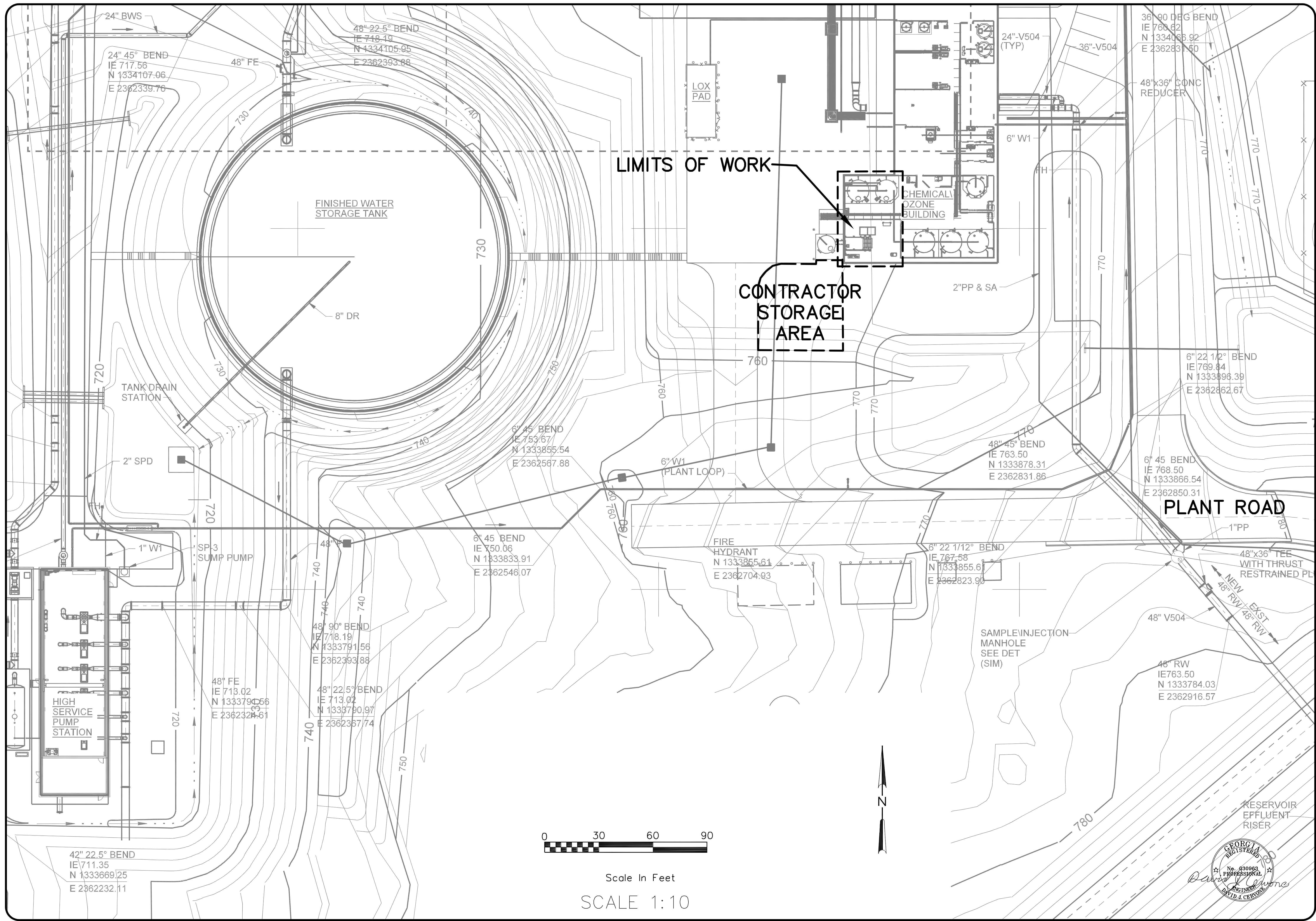
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GENERAL NOTES, ABBREVIATIONS, & SYMBOLS

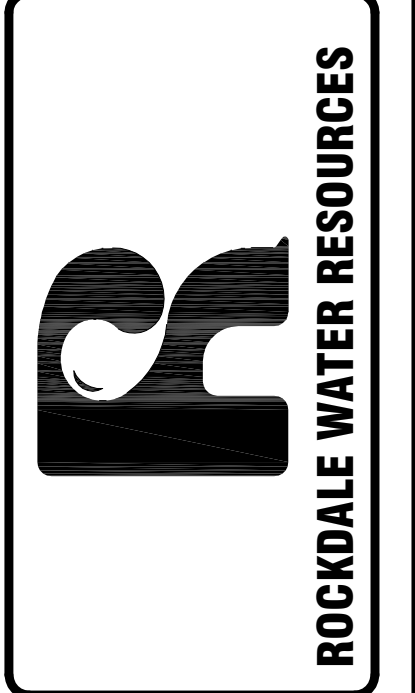
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DRAWN BY:	ELIZABETH LEE
CHECKED BY:	DAVID CERVONE
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FILE NAME:	G-01



G-01



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GENERAL SITE PLAN

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DATE: 4/29/2014
FILE NAME: C-01

C-01

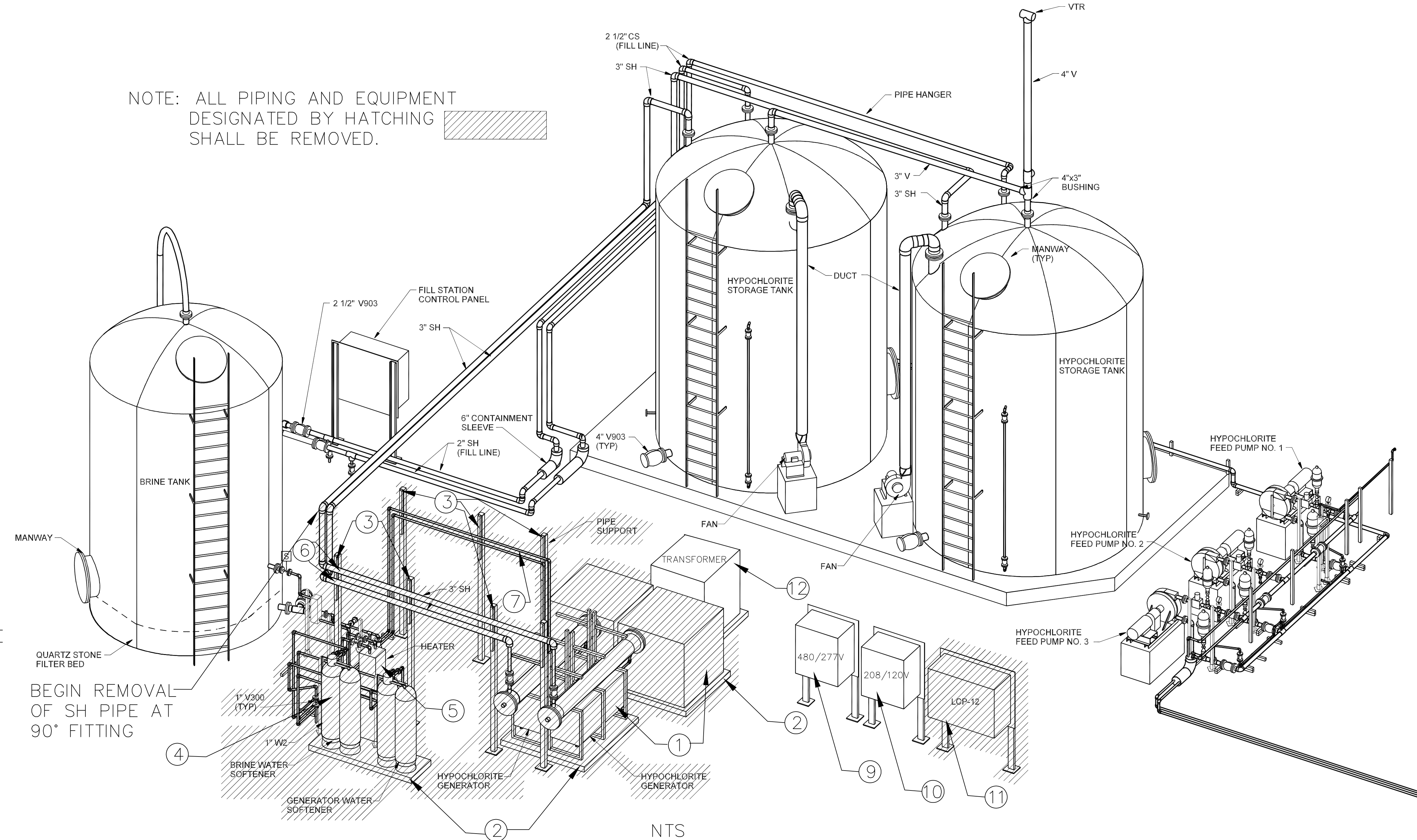
GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS PRIOR TO COMMENCING ANY WORK AT THE SITE.
2. ALL VALVES AND OTHER EQUIPMENT SHALL BE TURNED OVER OR REUSED AS NOTED ON THESE DRAWINGS.
3. REFER TO SPEC SECTION FOR ADDITIONAL DEMOLITION AND SALVAGE REQUIREMENTS.
4. EXISTING PLYWOOD ENCLOSURE (NOT SHOWN) SHALL BE DEMOLISHED.
5. REFER TO ELECTRICAL SHEETS FOR ADDITIONAL DEMOLITION AND/OR RELOCATION REQUIREMENTS.

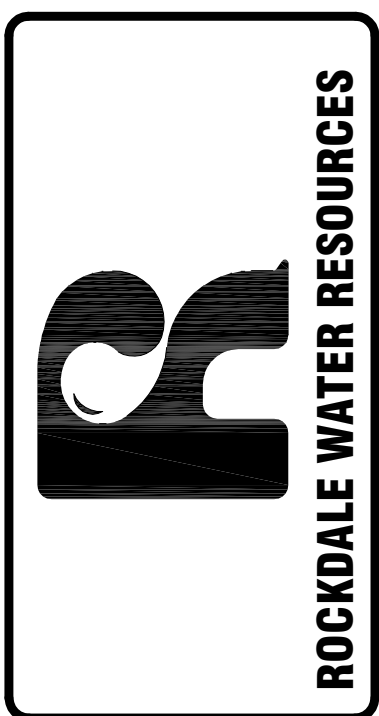
NOTE: ALL PIPING AND EQUIPMENT DESIGNATED BY HATCHING  SHALL BE REMOVED.

KEY NOTES:

- ① DEMOLISH HYPOCHLORITE GENERATORS
- ② REMOVE CONCRETE BASE TO FLUSH WITH FLOOR
- ③ REMOVE PIPE SUPPORTS
- ④ REMOVE WATER SOFTENERS (2)
- ⑤ REMOVE HEATER AND CONCRETE BASE
- ⑥ REMOVE 3" SODIUM HYPO LINE
- ⑦ REMOVE 1" BRINE
- ⑧ REMOVE 1" WATER (SOFTENED)
- ⑨ 480V PANEL TO BE RELOCATED
- ⑩ 208V PANEL TO BE RELOCATED
- ⑪ LCP-12 TO BE REMOVED
- ⑫ EXISTING TRANSFORMER TO BE RELOCATED



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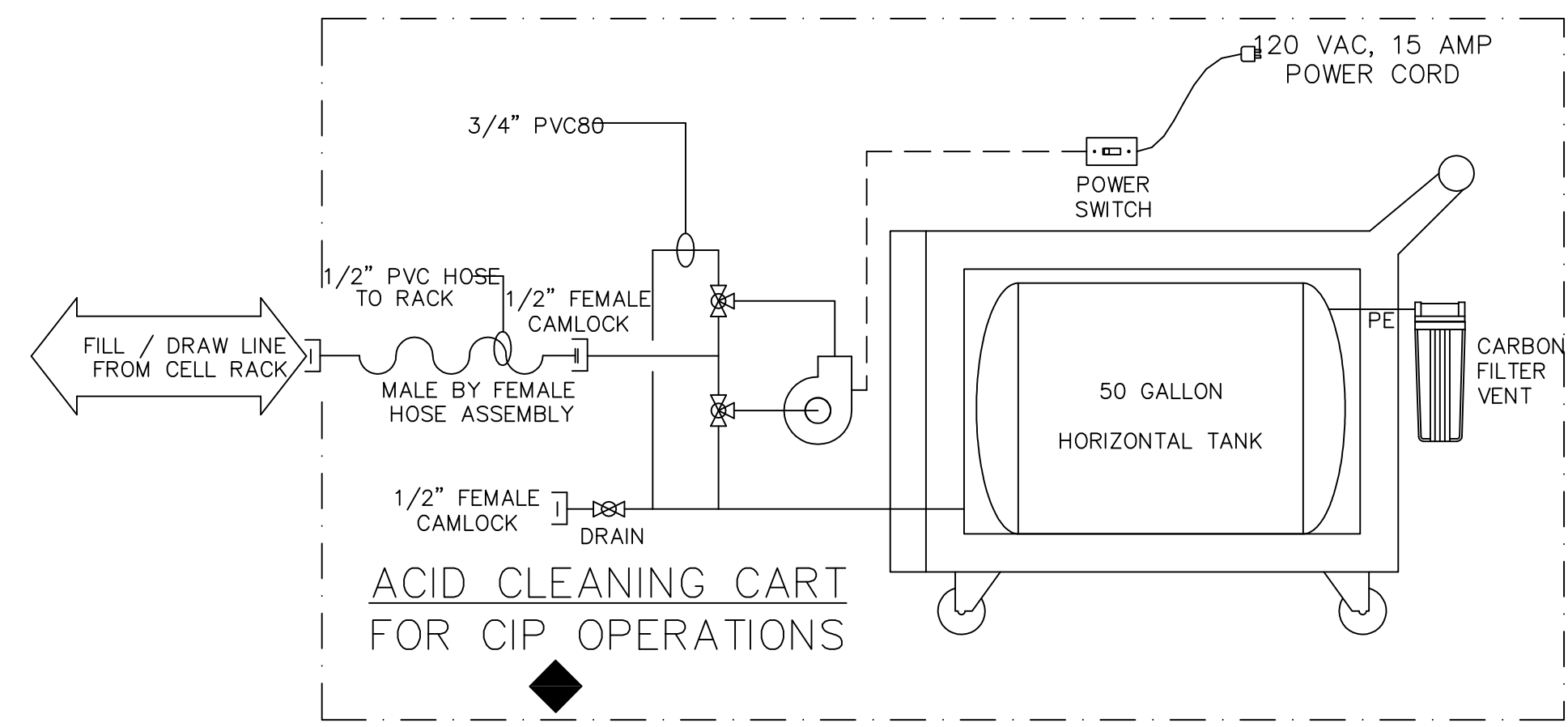
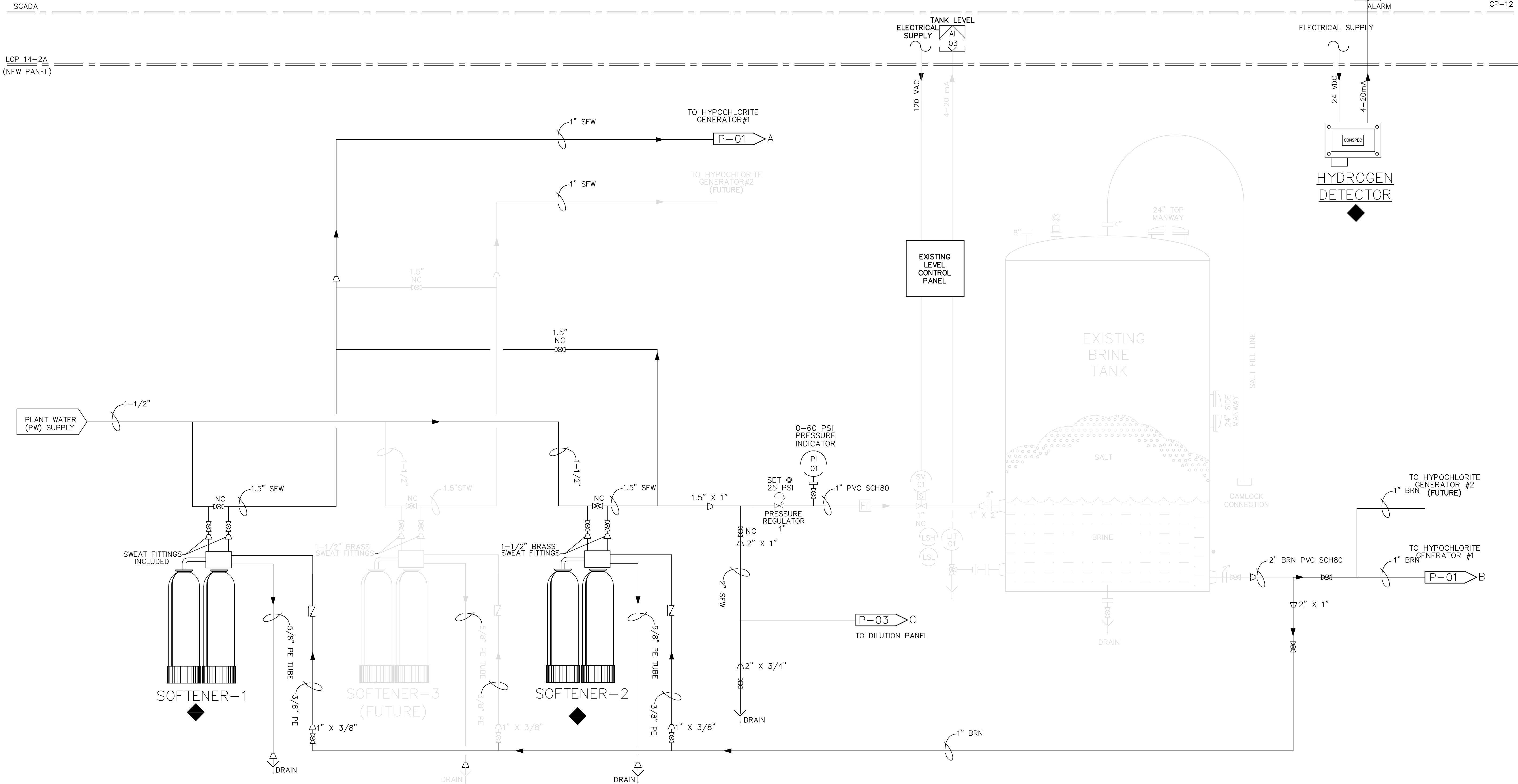
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DEMOLITION PLAN

DESIGNED BY: DAVID CERVONE
DRAWN BY: ELIZABETH LEE
CHECKED BY: DAVID CERVONE
DATE: 4/29/2014
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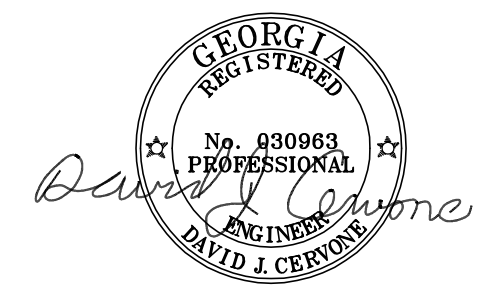


C-02

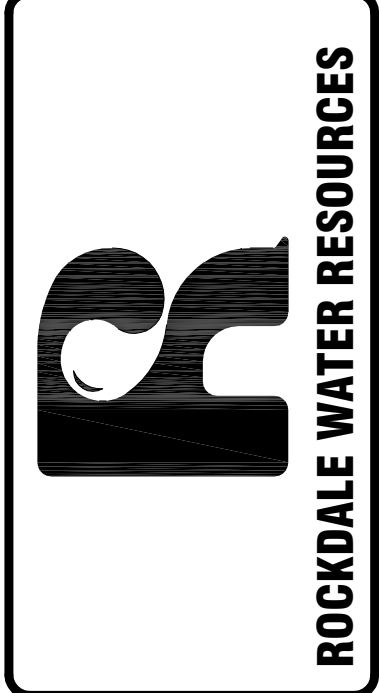


NOTES:

- ◆ = ITEMS TO BE SUPPLIED BY ONSITE HYPOCHLORITE GENERATION SYSTEM SUPPLIER.
- 1. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND ALL PIPING, VALVES, CABLE, & CONDUIT REQUIRED FOR PROPER INSTALLATION.
- 2. PROVIDE ALL VALVES SHOWN ON P DRAWINGS EVEN IF NOT INDICATED ON MECHANICAL DRAWINGS (M SHEETS)
- 3. PROPOSED VALVES MAY NOT BE LABELED, USE LEGEND AND LINE SIZE TO IDENTIFY VALVE TYPE AND SIZE.



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SUITE H
CONYERS, GEORGIA 30094
PHONE (770)278-7432
FAX (770)918-6629



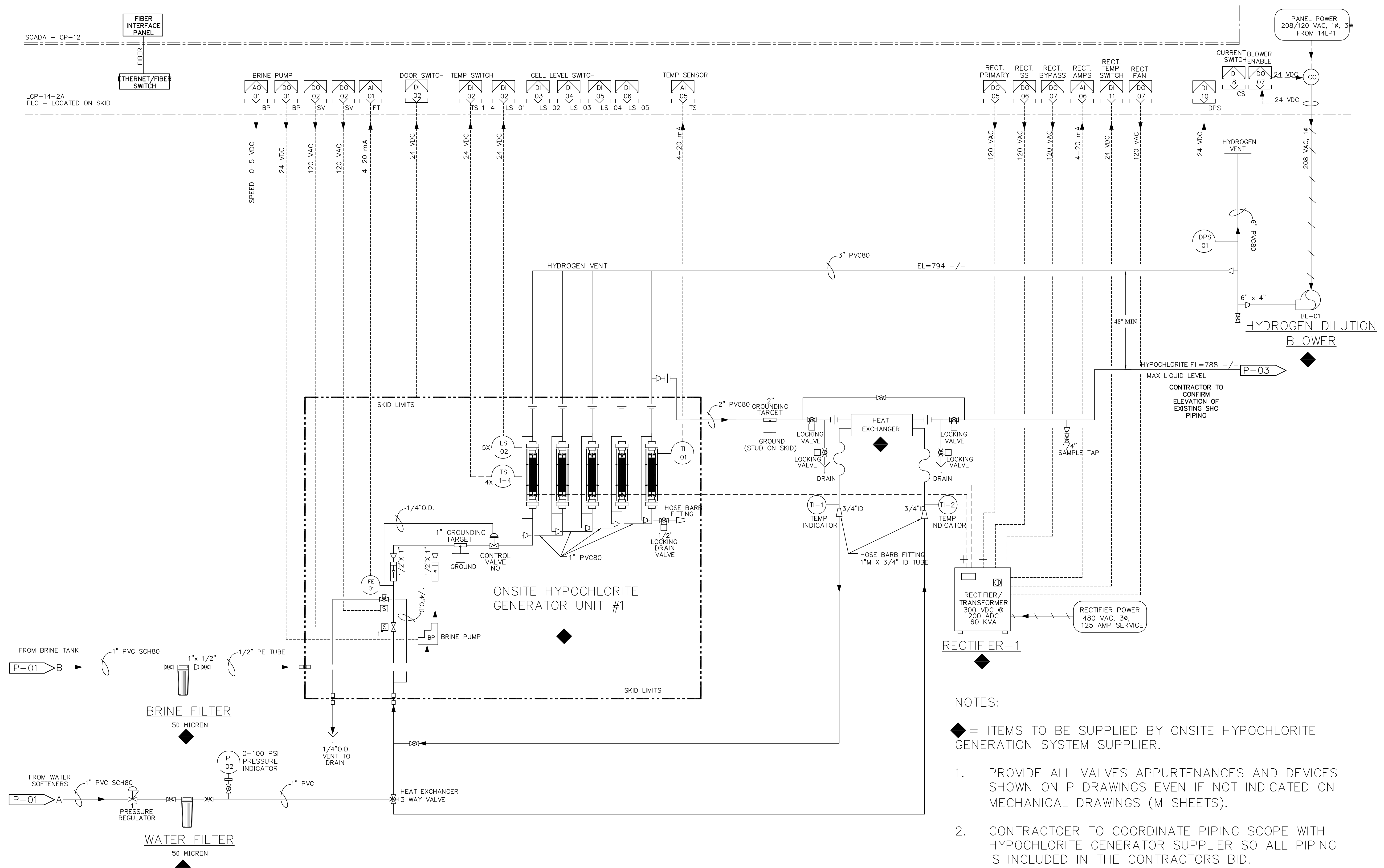
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PROCESS/PIPING AND INSTRUMENTATION DIAGRAM - WATER SOFTENERS AND CLEANING CART

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DRAWN BY: ELIZABETH LEE
CHECKED BY: DAVID CERVONE
DATE: 4/29/2014
FILE NAME: P-02

P-01

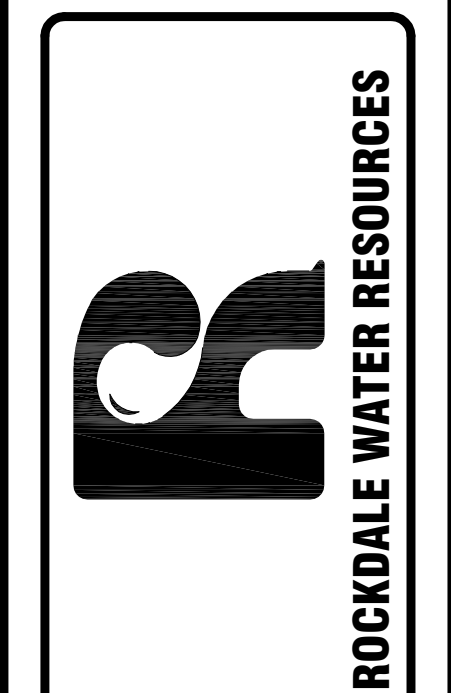


- NOTES:**
- ◆ = ITEMS TO BE SUPPLIED BY ONSITE HYPOCHLORITE GENERATION SYSTEM SUPPLIER.
 - 1. PROVIDE ALL VALVES APPURTENANCES AND DEVICES SHOWN ON P DRAWINGS EVEN IF NOT INDICATED ON MECHANICAL DRAWINGS (M SHEETS).
 - 2. CONTRACTOR TO COORDINATE PIPING SCOPE WITH HYPOCHLORITE GENERATOR SUPPLIER SO ALL PIPING IS INCLUDED IN THE CONTRACTORS BID.
 - 3. PROPOSED MAY NOT BE LABELED, USE LEGEND AND LINE SIZE TO IDENTIFY VALVE TYPE AND SIZE.

David J. Cervone

 ENGINEER

1329 PORTMAN DRIVE
 SUITE H
 CONYERS, GEORGIA 30094
 PHONE (770)278-7432
 FAX (770)918-6629



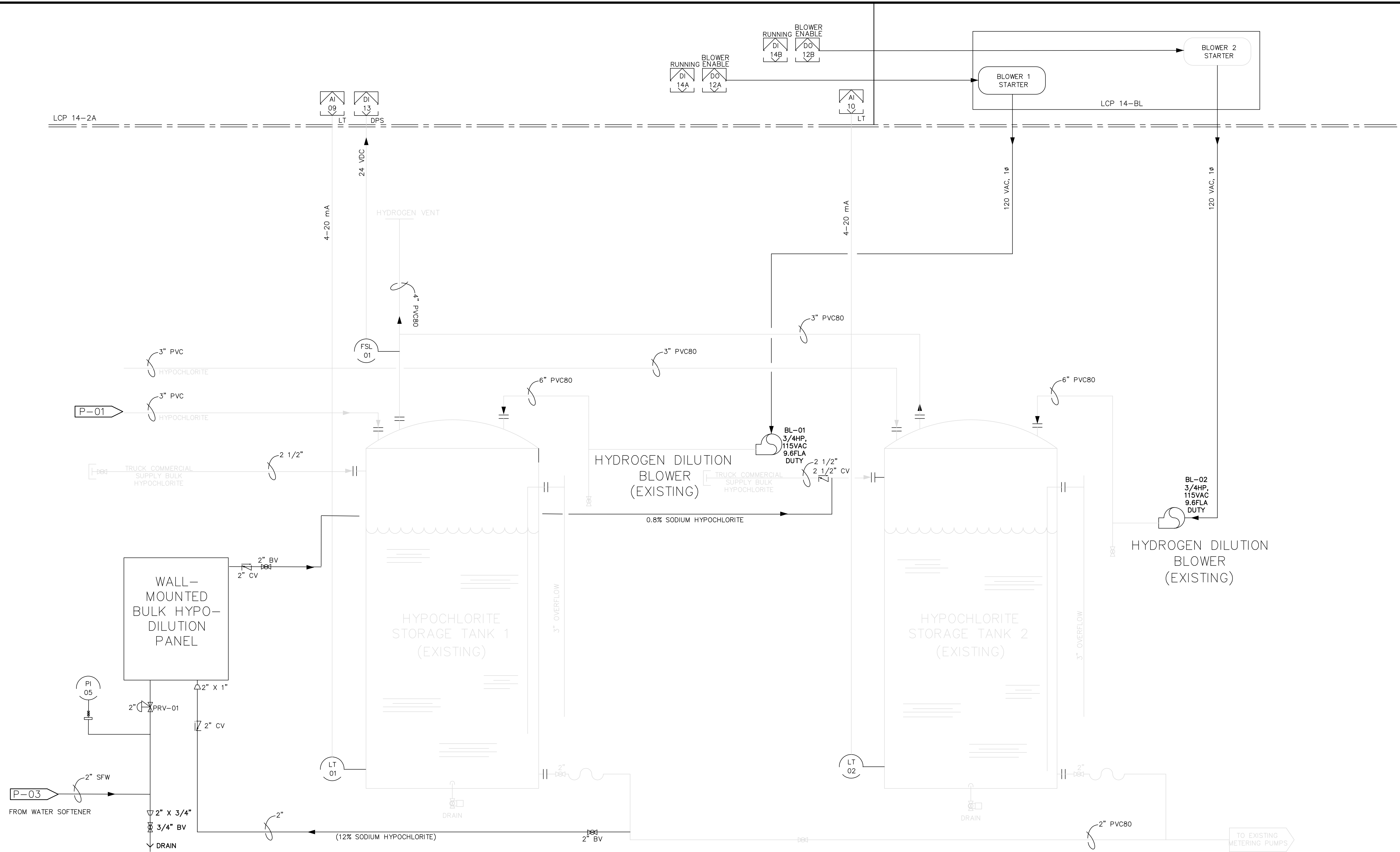
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PROCESS/PIPING AND INSTRUMENTATION DIAGRAM - HYPOCHLORITE GENERATOR 1

DESIGNED BY: DAVID CERVONE
 DRAWN BY: ELIZABETH LEE
 CHECKED BY: DAVID CERVONE
 DATE: 4/29/2014
 FILE NAME: P-03

P-02

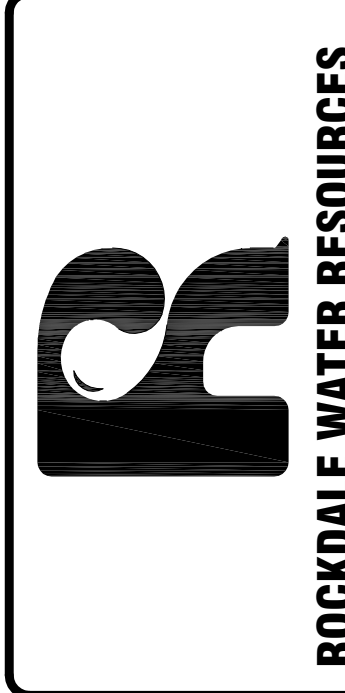


NOTES:

- ◆ = ITEMS TO BE SUPPLIED BY ONSITE HYPOCHLORITE GENERATION SYSTEM SUPPLIER.
- 1. PROVIDE ALL VALVES APPURTENANCES AND DEVICES SHOWN ON P DRAWINGS EVEN IF NOT INDICATED ON MECHANICAL DRAWINGS (M SHEETS).
- 2. CONTRACTOR TO COORDINATE PIPING SCOPE WITH HYPOCHLORITE GENERATOR SUPPLIER SO ALL PIPING IS INCLUDED IN THE CONTRACTORS BID.
- 3. REFER TO SODIUM HYPOCHLORITE DILUTION PANEL SCHEMATIC FOR SPECIFIC DETAILS (SHEET M-05).



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SUITE H
CONYERS, GEORGIA 30094
PHONE (770)278-7432
FAX (770)918-6629



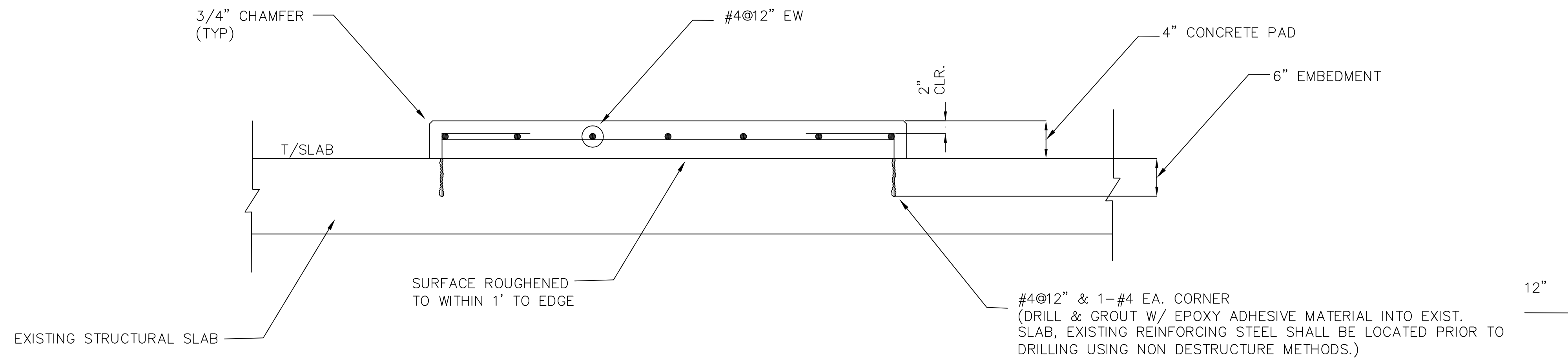
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PROCESS/PIPING AND INSTRUMENTATION DIAGRAM - HYPOCHLORITE STORAGE TANKS 1 & 2 (EXISTING)

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DATE: 4/29/2014
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P-03



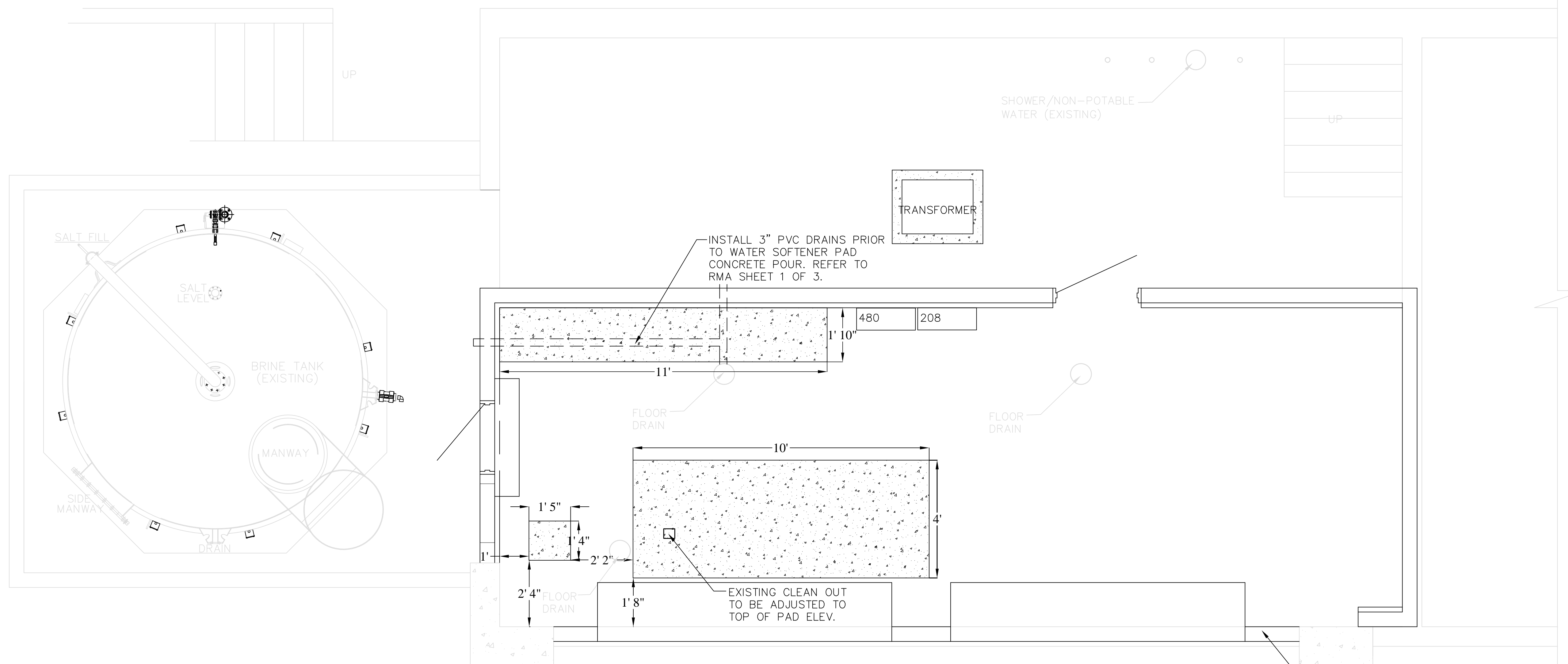
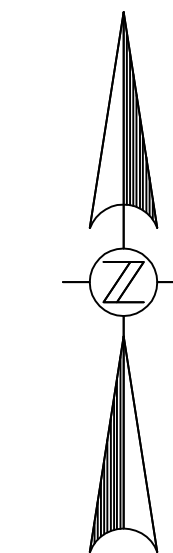
GENERAL NOTES:

1. FIELD VERIFY ALL DIMENSIONS, LOCATIONS AND ELEVATIONS SHOWN ON THE DRAWINGS FOR EXISTING STRUCTURES. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
2. THE SIZE AND LOCATIONS OF EQUIPMENT PADS ARE DEPENDENT ON THE ACTUAL EQUIPMENT FURNISHED. VERIFY AND COORDINATE ALL SUCH ITEMS.

NOTES:

1. EQUIPMENT ANCHORAGE NOT SHOWN FOR CLARITY AND SHALL BE DETERMINED BY EQUIPMENT MANUFACTURER. EMBEDMENT OF ANCHOR TO BE MEASURED FROM T/SLAB AND NOT T/PAD.
2. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE LOCATION AND DIMENSIONS OF CONCRETE PADS WITH EQUIPMENT MANUFACTURER.

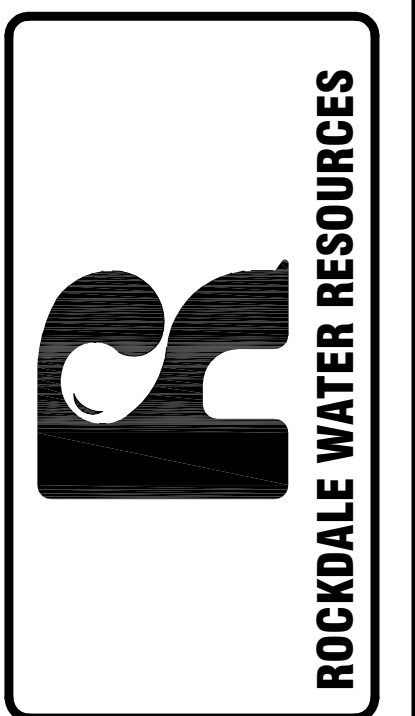
**CONCRETE EQUIPMENT PAD
(NTS)**



ON-SITE HYPOCHLORITE GENERATOR ROOM – EQUIPMENT PAD DETAILS

1/2" = 1'

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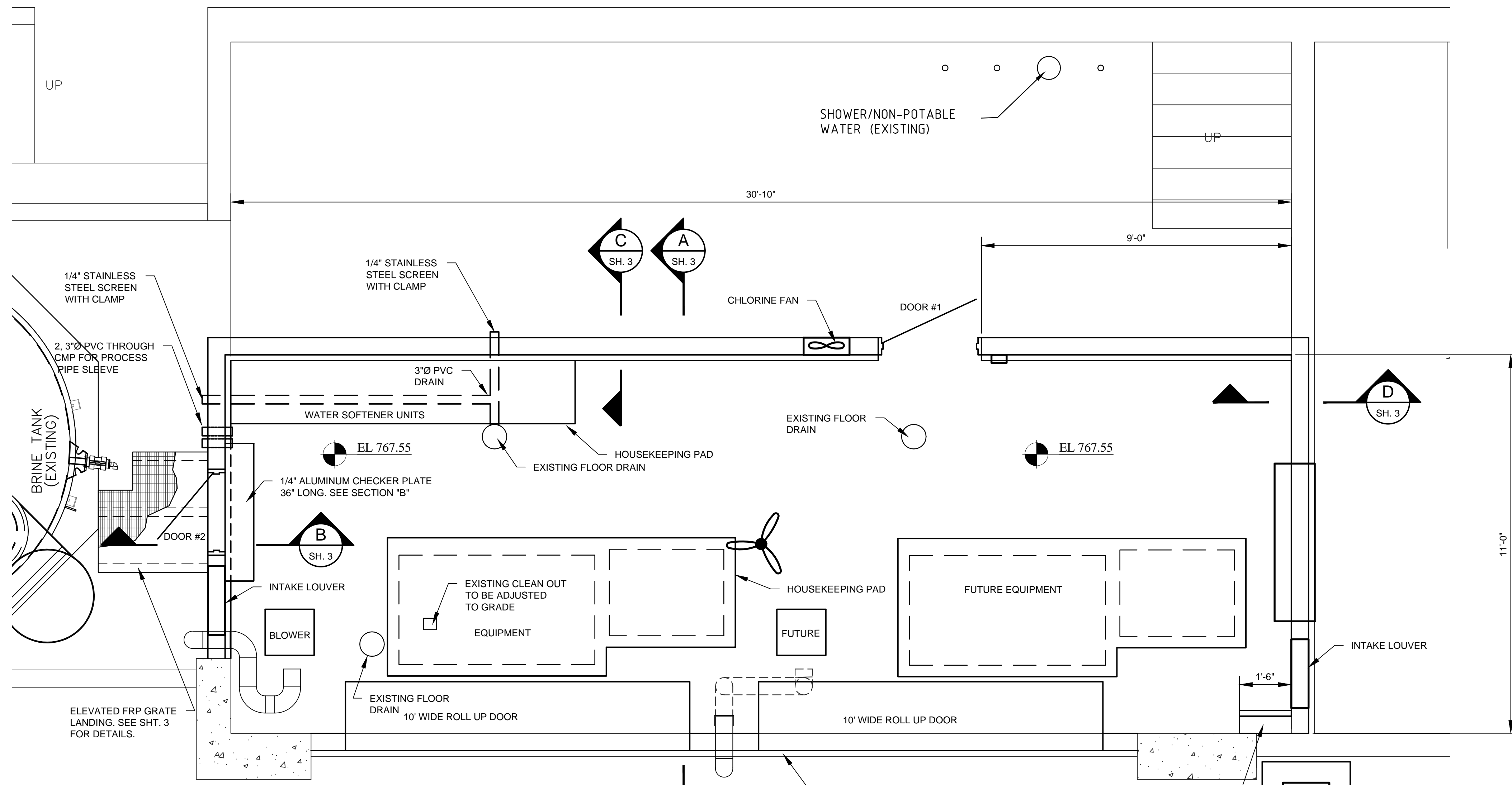
EQUIPMENT PAD PLAN

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CHECKED BY: DAVID CERVONE
DATE: 4/29/2014
FILE NAME: S-01

S-01



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PLAN VIEW
1/2"=1'-0"

NOTE:
SEE EQUIPMENT PAD PLAN FOR SIZE AND
LOCATIONS OF THE HOUSE KEEPING PADS.

General Notes

- All construction shall comply with all State, County and Local building codes.
- "Rafter to double plate hurricane ties" shall be used on all rafters.
- Wall and roof panels shall be KirbyRib II, 29 gauge or approved equal.
Color to be selected by owner.
- Roll up doors shall be by Roll Up Doors Direct Model 1000 or approved equal.
Door opening: 10' wide by 10' high
Chain operator
26 gauge galv. steel curtain with foil backed insulation.
Color to be determined by owner.
- Entry doors shall be 1.75" hollow metal insulated with locking handset to match existing in plant.
Door 1 3'-0" x 6'-8" with 24" x 36" 1/4" wire glass
Door 2 2'-6" x 6'-8" with 24" x 36" 1/4" wire glass, door to be equipped with door stop to protect piping on brine tank.
- PVC drain pipe shall be secured to the existing floor and encased within the housekeeping pad.
- FRP wall panels shall be manufactured by Stabilit America, Inc. DBA Glasteel or approved equal. Specified wall panels available at Home Depot. Panels shall be min of 0.090" thick. Panels shall be installed horizontally (8' wide) with manufactures recommended adhesive and trim appurtenances. All seams to be sealed as recommended.
- Screened panel removed from opening shall be delivered to the Rockdale Water Resources maintenance facility.
- Installation of all materials and equipment shall be according to the manufactures recommendations.

PAINTING

- All coatings shall be Tnemec or approved equal.
- Workmanship shall be performed by skilled workmen thoroughly trained in necessary crafts and completely familiar with specific requirements necessary for the product specified.
- The Contractor shall examine all surfaces scheduled to receive paint or other finishes for conditions that will adversely affect execution, permanence, or quality of work covered by this item.
- Contractor shall not proceed with surface preparation or coating application until surface conditions are suitable.
- Finish coats shall be smooth, free of brush marks, streaks, runs, laps or pile-up of paint, and skipped or missed areas. Moldings, trim, and other ornaments shall be left clean and true to details with no undue amount of paint in corners and depressions. The edges of paint adjoining other materials or colors shall be clean and sharp with no overlapping. Where any portion of the finish of a wall has been damaged or is not acceptable, the entire wall shall be refinished.
- Hardware, trim, and other items shall be removed, as required, for proper application of coatings.
- Application rate shall be:
Exterior/Interior Exposure - Acrylic Epoxy System
a. Surface Preparation
1) Surface shall be clean and dry
b. 1st Coat
1) TNEMEC Series 1 Omnithane Surfaces other than wood
TNEMEC Series 113 H.B. Tnemec-Tufcoat Wood Surfaces
2) 2.5 - 3.5 mils dft
c. 2nd Coat
1) TNEMEC Series 113 H.B. Tnemec-Tufcoat
2) 2 - 3 mils dft
d. 3rd Coat
1) TNEMEC Series 113 H.B. Tnemec-Tufcoat
2) 2 - 3 mils dft



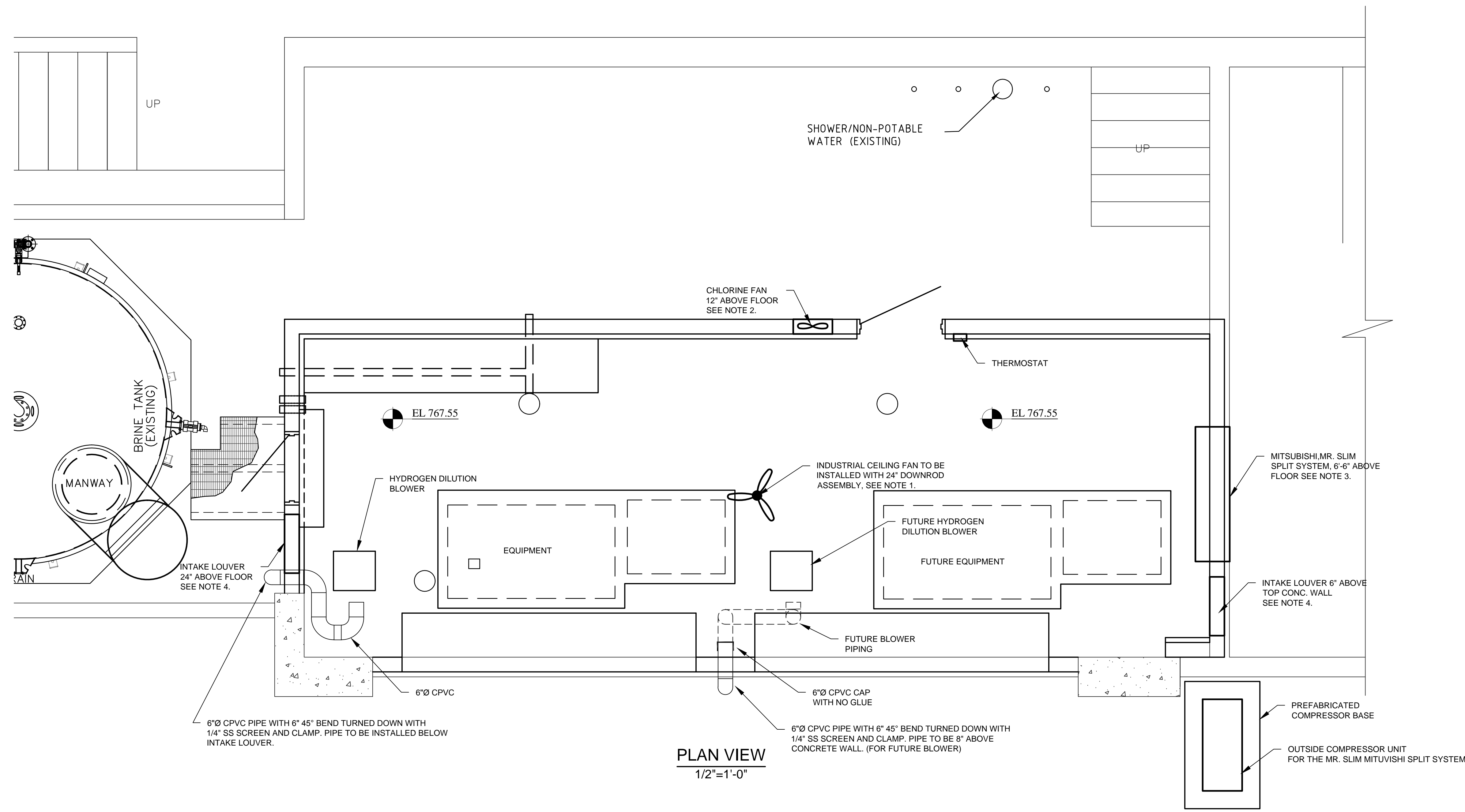
Date	Initial	Revisions	No.
4/9/2014	KFK	ISSUE FOR EPD APPROVAL	0



GEES MILL WATER TREATMENT PLANT
HYPOCHLORITE GENERATION SYSTEM
BUILDING FLOOR PLAN

Drawn: GC	Design: KK	Checked: KK	Project No: R2014-003
Scale: AS SHOWN	Date: MARCH 2014	14-003-PLANT DESIGN_recover.dwg	

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PLAN VIEW
1/2"=1'-0"

- NOTES:
- INDUSTRIAL CEILING FAN SHALL BE DAYTON 1 SPEED REVERSIBLE, MOISTURE RESISTANT ITEM NUMBER 5NP29 IN GRAINGER CATALOG PAGE 4298 OR EQUAL.
 - CHLORINE FAN 16" CORROSION-RESISTANT SHURRER-MOUNT EXHAUST FAN ITEM NUMBER 1BLJ1 IN GRAINGER CATALOG PAGE 4257 OR EQUAL.
 - HVAC UNIT TO BE MITSUBISHI ELECTRIC MR. SLIM SPLIT-ZONING SYSTEM. PKA-SERIES WALL MOUNTED A/C AND HEAT PUMP INDOOR UNIT MODEL NUMBER PKA-A24FA / OUTDOOR MODEL NUMBER PUZ-A14NHA WITH MITSUBISHI ELECTRIC HARD-WIRED, MULTILINGUAL REMOTE CONTROLLER PAR-21MAA OR EQUAL.
 - INTAKE LOUVERS SHALL BE DAYTON MODEL #5NKH7 WITH SCREEN. LOUVER TO BE SET UP FOR AUTO/GRAVITY OPERATION TO OPEN AND SPRING CLOSURE BASED ON THE EXHAUST FAN OPERATION.
 - ALL HYDROGEN DILUTION BLOWER PIPING SHALL BE CPVC.



No.	Revisions	Initial	Date
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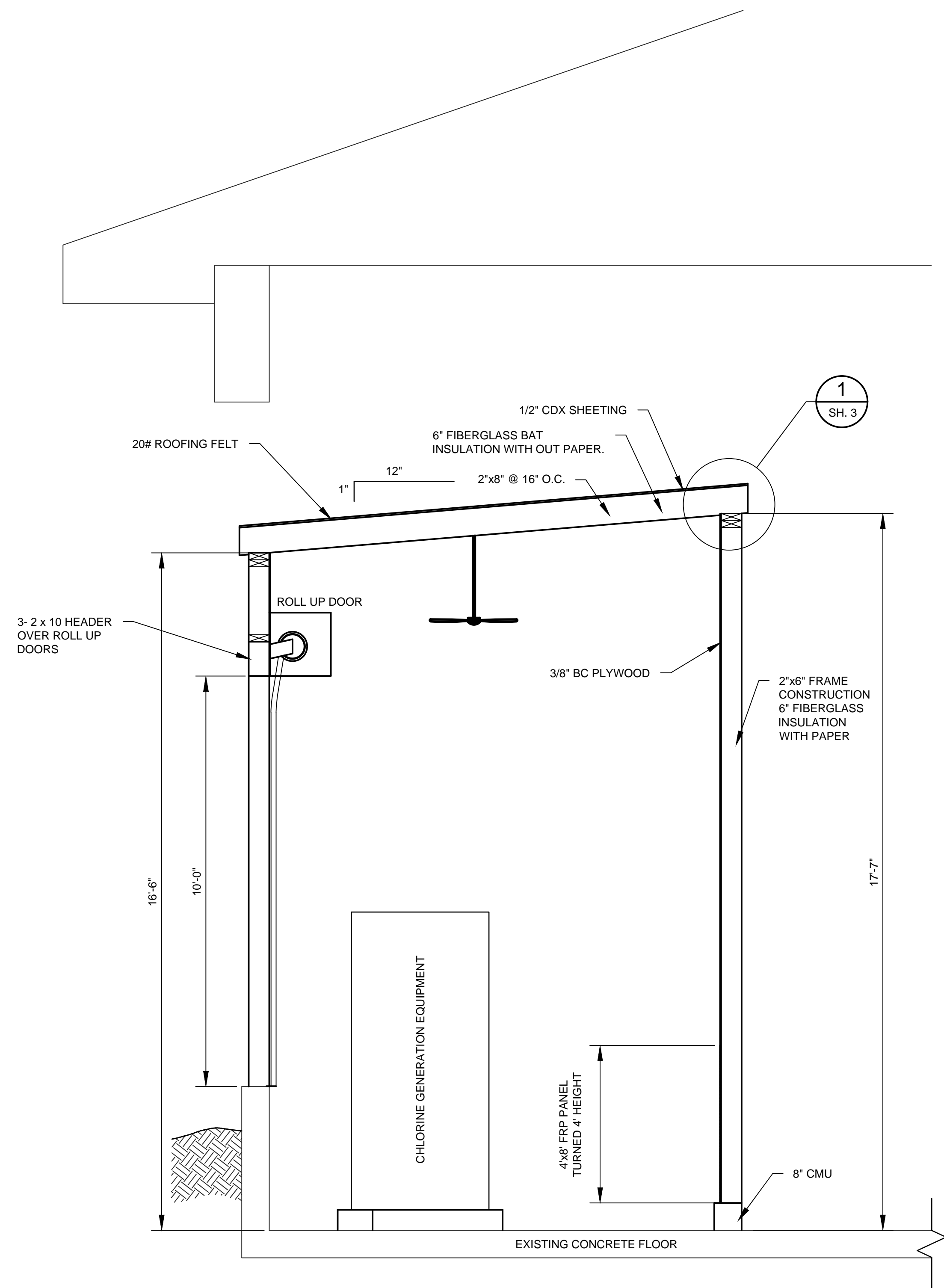


GEES MILL WATER TREATMENT PLANT
HYPOCHLORITE GENERATION SYSTEM

HVAC PLAN

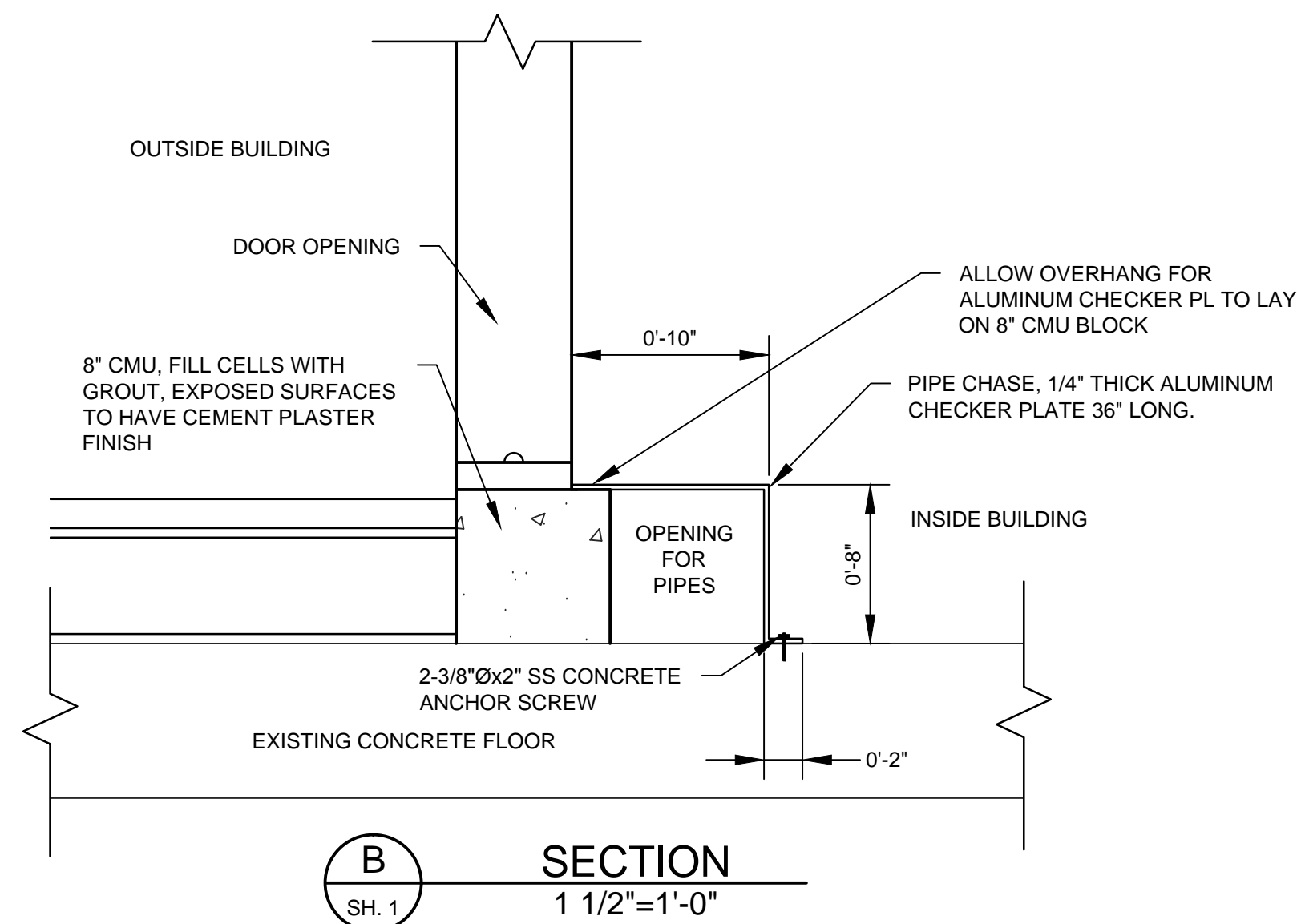
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14-003-PLANT DESIGN_recover.dwg	

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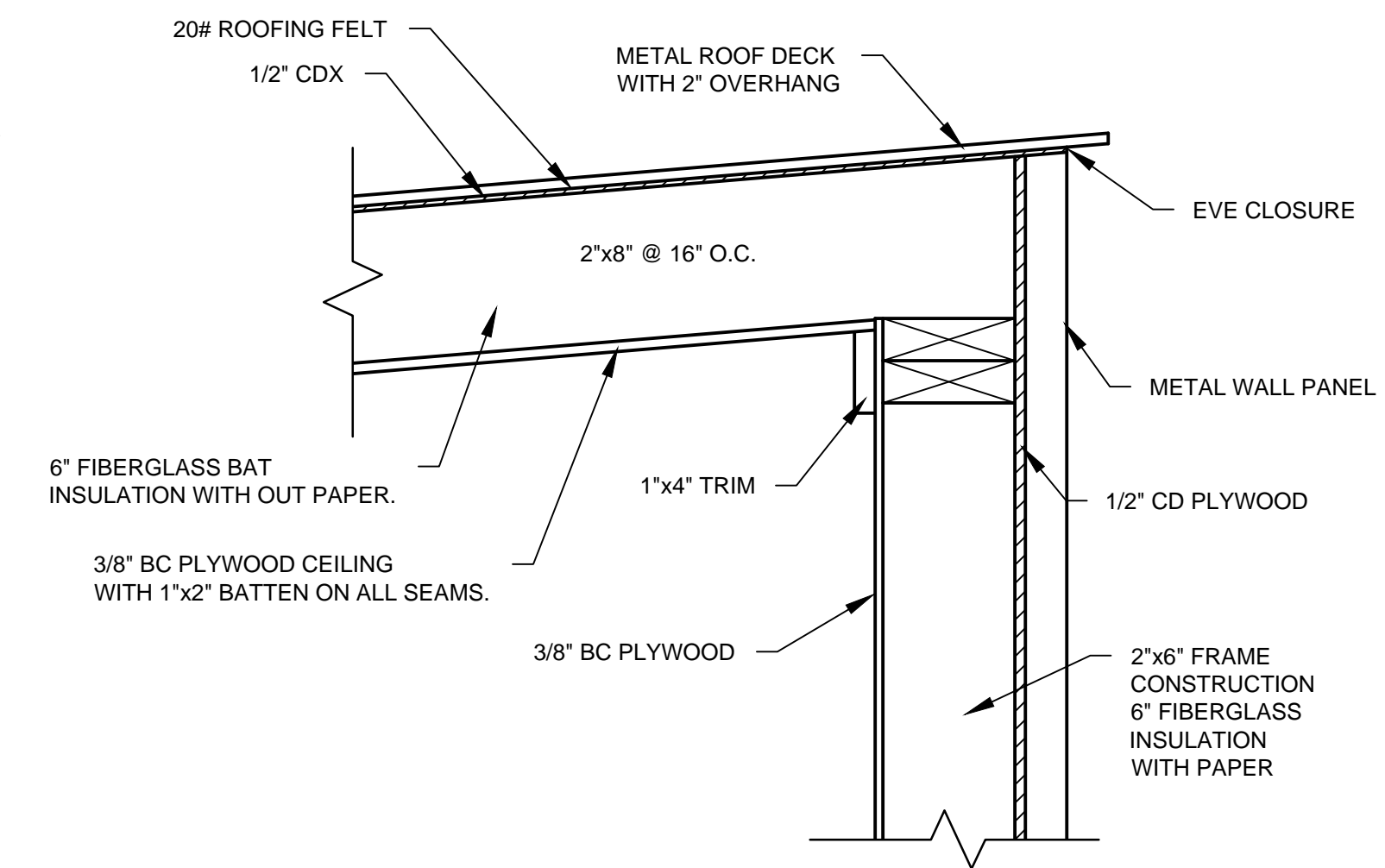


NOTES:
1. ROOF AND WALL PANELS SHALL BE KIRBY II OR APPROVED EQUAL. COLOR TO BE SELECTED BY OWNER.

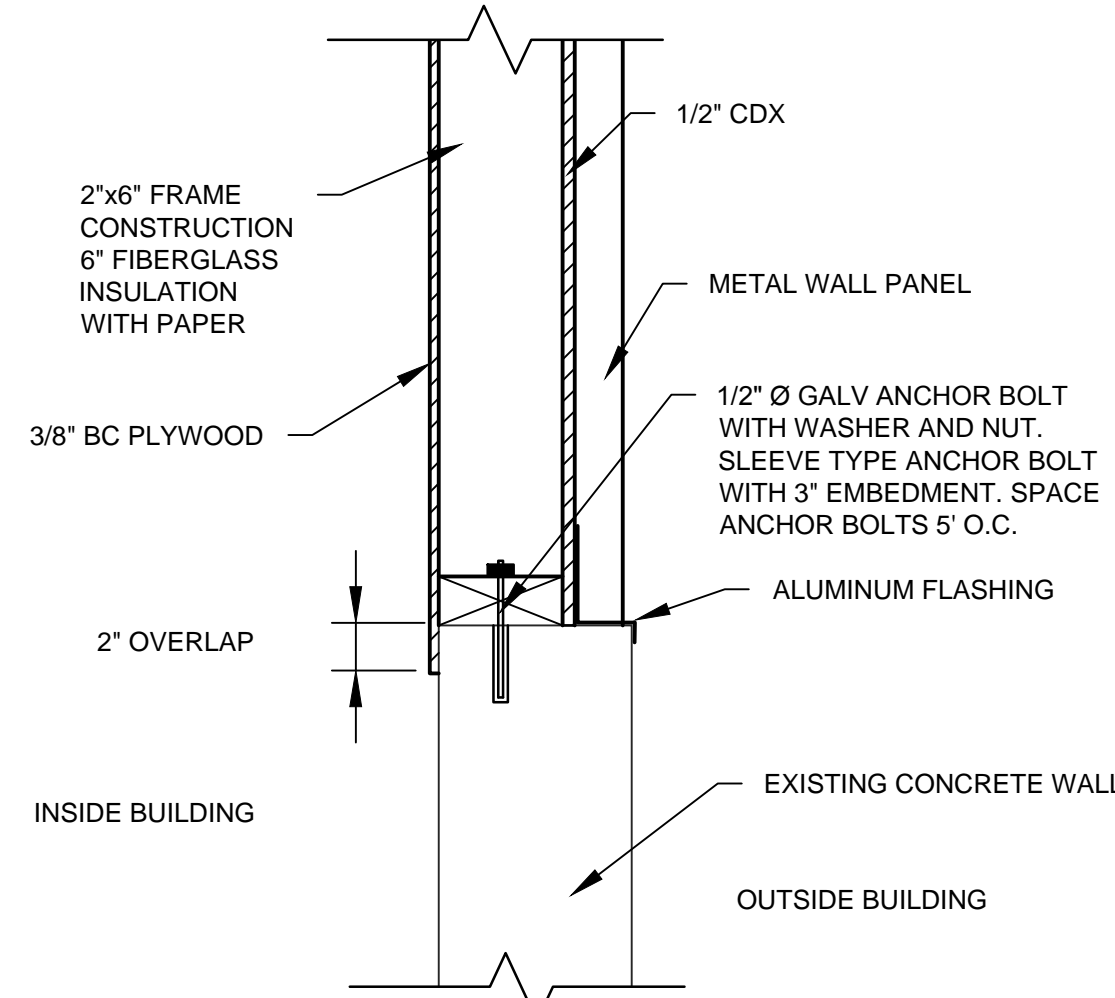
A SECTION
SH. 1 1/2"=1'-0"



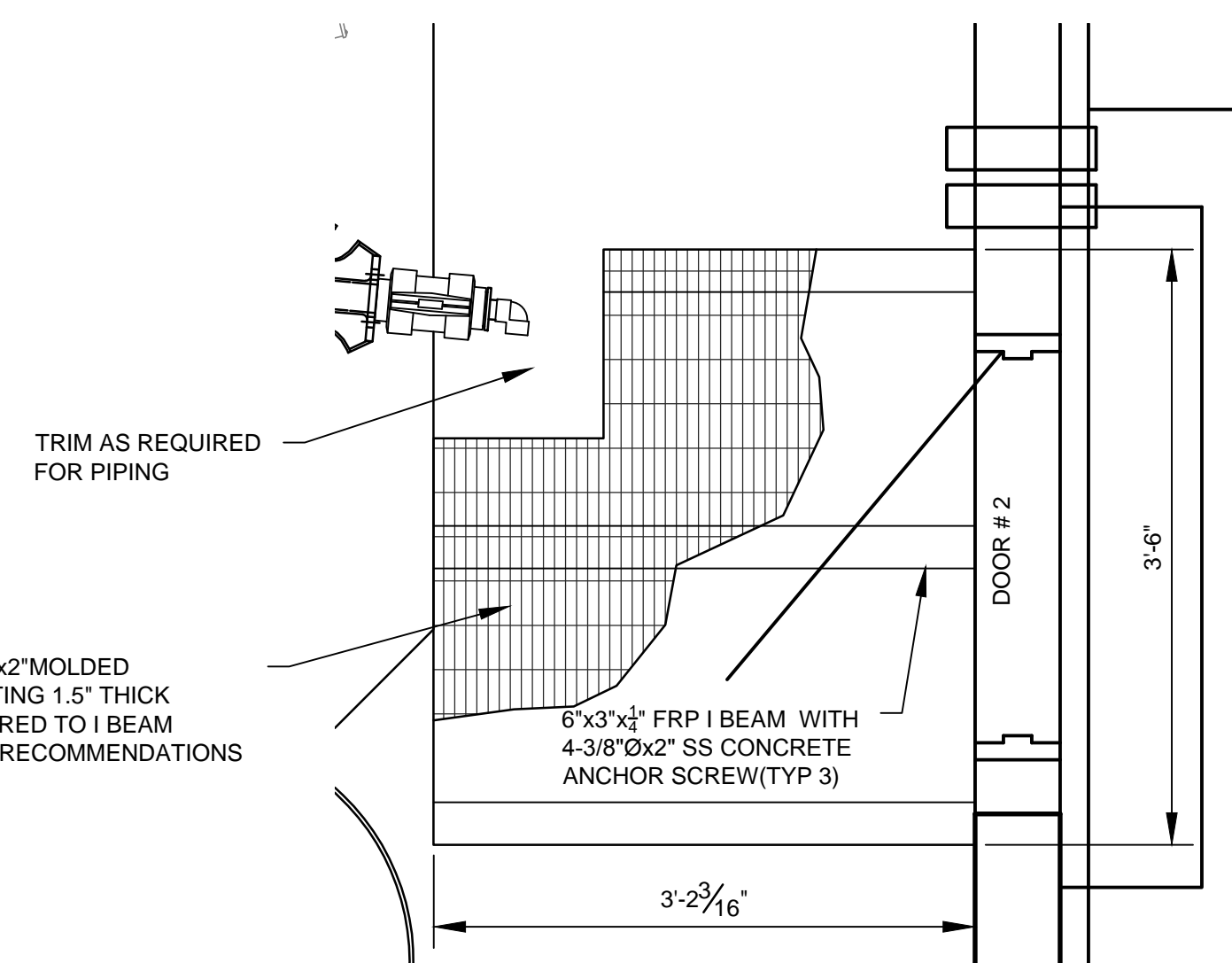
B SECTION
SH. 1 1 1/2"=1'-0"



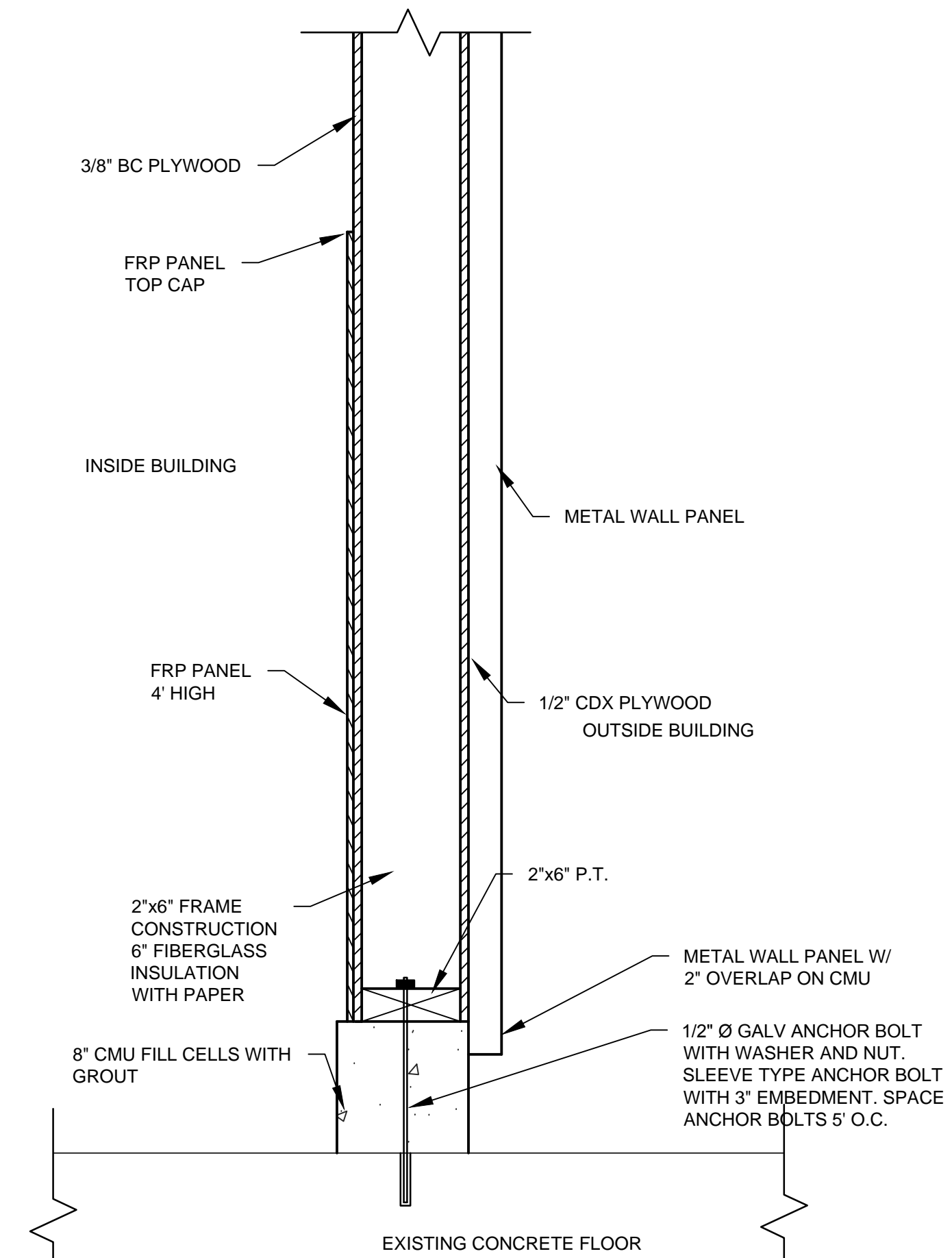
1 DETAIL
SH. 3 1 1/2"=1'-0"



D SECTION
SH. 1 1 1/2"=1'-0"



ELEVATED FRP GRATE LANDING
1"=1'-0"



C SECTION
SH. 1 1 1/2"=1'-0"



Date	4/9/2014
Initial	KFK
Revisions	ISSUE FOR EPD APPROVAL
No.	0



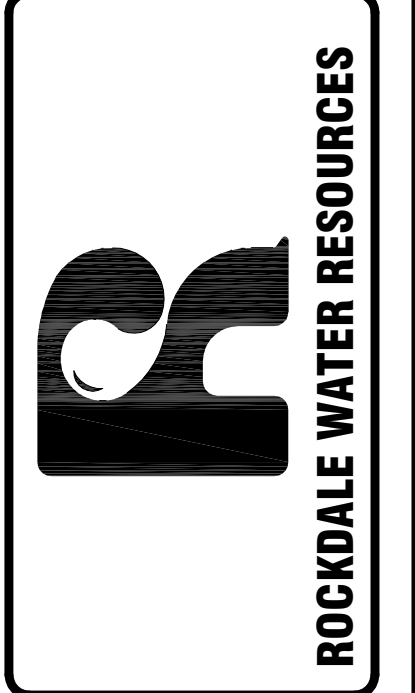
**GEES MILL WATER TREATMENT PLANT
HYPOCHLORITE GENERATION SYSTEM**

SECTION AND DETAILS

Drawn:	GC
Design:	KK
Checked:	KK
Project No.:	R2014-003
Scale:	AS SHOWN
Date:	MARCH 2014

Sheet No. 3 of 3

1329 PORTMAN DRIVE
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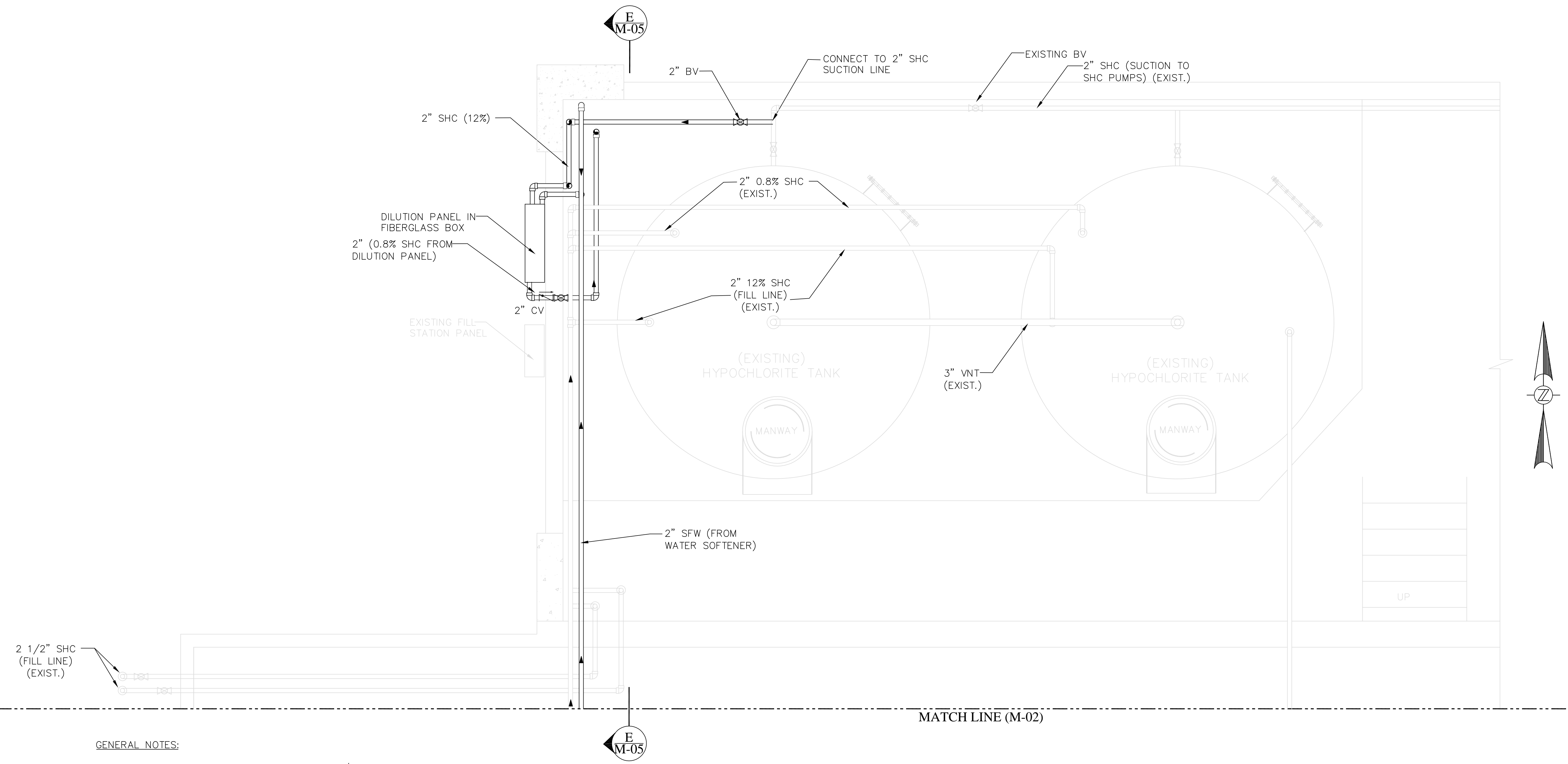


REVISION	
No.	DESCRIPTION
0	04/09/14 ISSUED FOR EPD APPROVAL
A	04/29/14 ISSUED FOR BID

PARTIAL PLAN

DESIGNED BY: DAVID CERVONE
 DRAWN BY: ELIZABETH LEE
 CHECKED BY: DAVID CERVONE
 DATE: 4/29/2014
 FILE NAME: M-01

M-01



GENERAL NOTES:

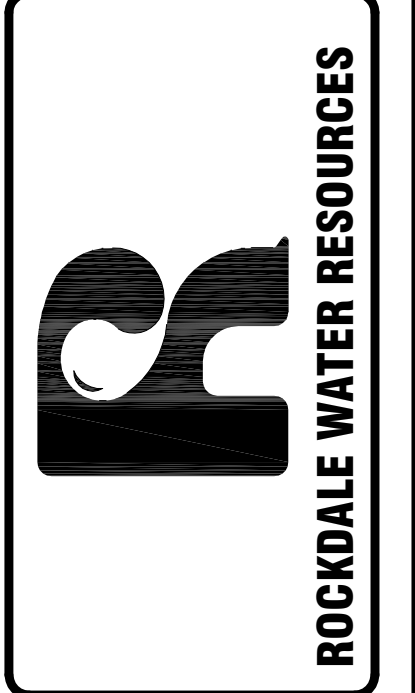
1. CONTRACTOR SHALL COORDINATE LOCATION/PLACEMENT OF DILUTION PANEL WITH WTP PERSONNEL.
2. CONTRACTOR RESPONSIBLE FOR PROVIDING SUPPORTS/AND OR MOUNTING HARDWARE FOR DILUTION PANEL.
3. CONTRACTOR TO PROVIDE PIPE SUPPORTS FOR ALL PIPING. SEE SPECIFICATION SECTION 15096.
4. HEAT TRACE AND INSULATE EXPOSED PIPING (I.E. OUTSIDE OF NEW BUILDING ENCLOSURE) SEE SPECIFICATIONS AND ELECTRICAL DRAWINGS FOR ADDITIONAL DETAILS.
5. REFER TO P&ID'S FOR ADDITIONAL INFORMATION ON VALVE AND FITTINGS REQUIRED. CONTRACTOR TO PROVIDE ALL FITTINGS REQUIRED FOR COMPLETE INSTALLATION.
6. FOR CLARITY SOME CONDUIT AND EXISTING PIPING NOT SHOWN. CONTRACTOR SHALL COORDINATE INSTALLATION WITH ALL EXISTING PIPING/CONDUIT.

ON-SITE HYPOCHLORITE GENERATOR SYSTEM PARTIAL PLAN

1/2" = 1'



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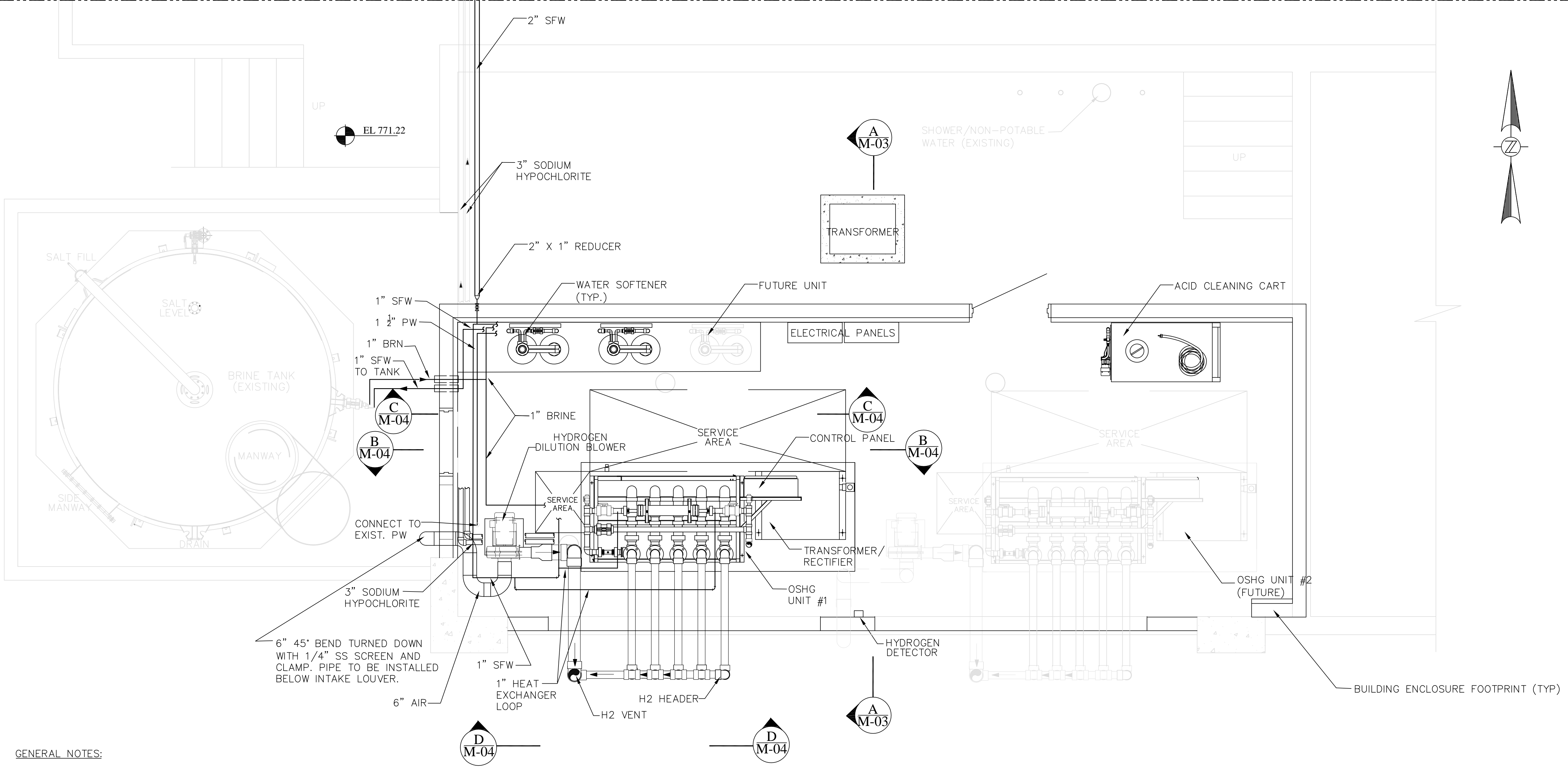
REVISION	DESCRIPTION
No.	DATE
0	04/09/14
1	ISSUED FOR EFD APPROVAL
A	04/29/14
	ISSUED FOR BID

PARTIAL PLAN

DESIGNED BY: DAVID CERVONE
 DRAWN BY: ELIZABETH LEE
 CHECKED BY: DAVID CERVONE
 DATE: 4/29/2014
 FILE NAME: M-02

M-02

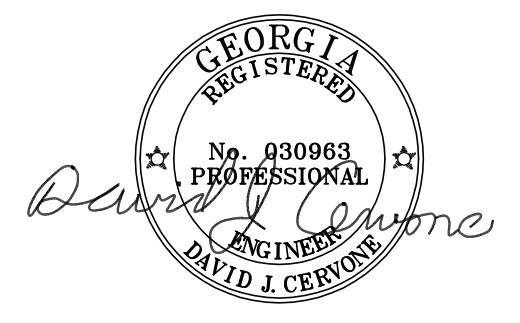
MATCH LINE (M-01)

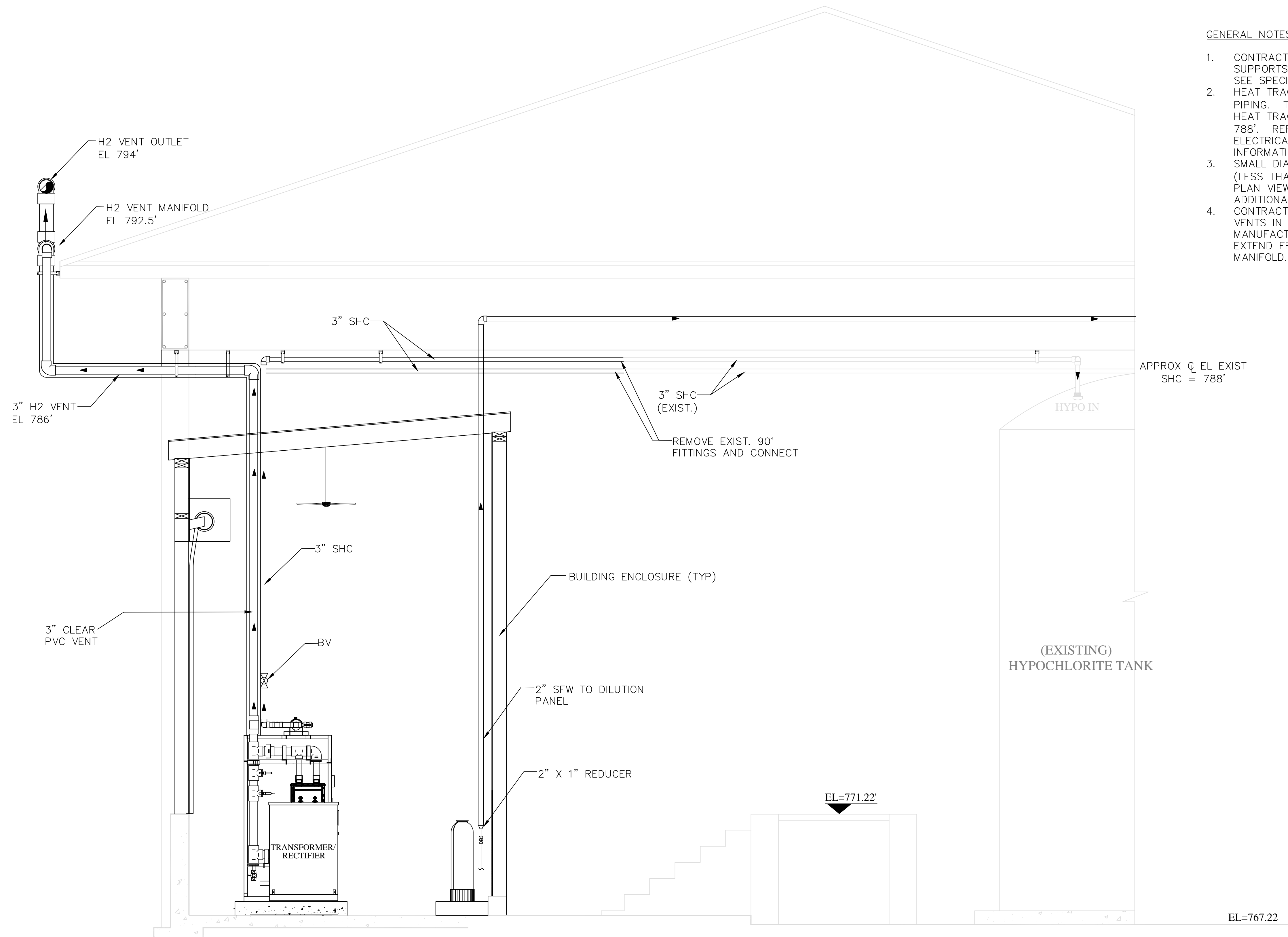


GENERAL NOTES:

1. COORDINATE LOCATION OF PIPING AND PROCESS EQUIPMENT WITH BUILDING DRAWING, HVAC PLAN, AND ELECTRICAL DRAWINGS.
2. HEAT TRACE AND INSULATE EXPOSED PIPING (I.E. OUTSIDE OF NEW BUILDING ENCLOSURE) SEE SPECIFICATIONS AND ELECTRICAL DRAWINGS FOR ADDITIONAL DETAILS.
3. REFER TO P&ID'S FOR ADDITIONAL INFORMATION ON VALVES AND FITTINGS REQUIRED. CONTRACTOR TO PROVIDE ALL FITTINGS REQUIRED FOR COMPLETE INSTALLATION.

ON-SITE HYPOCHLORITE GENERATOR SYSTEM PARTIAL PLAN
 1/2" = 1'





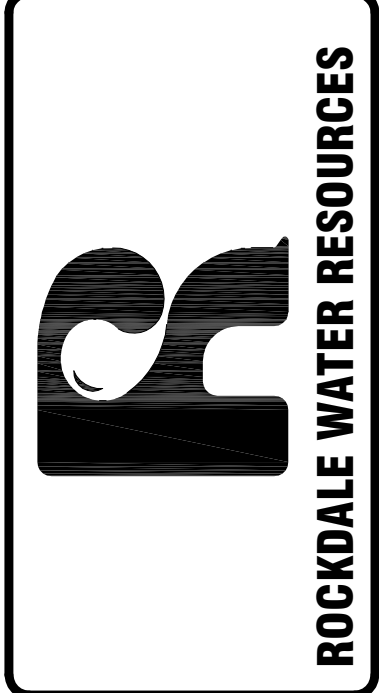
GENERAL NOTES:

1. CONTRACTOR TO PROVIDE PIPE SUPPORTS FOR ALL PIPING AND VENTS. SEE SPECIFICATION SECTION 15096.
2. HEAT TRACE AND INSULATE ALL EXPOSED PIPING. THE 3" H2 VENT PIPE SHALL BE HEAT TRACED AND INSULATED TO ELEV. 788'. REFER TO SPECIFICATIONS AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. SMALL DIAMETER PIPING NOT SHOWN (LESS THAN 2"). REFER TO P&ID'S, PLAN VIEW, AND DETAIL DRAWINGS FOR ADDITIONAL INFORMATION.
4. CONTRACTOR TO PROVIDE CLEAR PVC VENTS IN ACCORDANCE WITH OSHG MANUFACTURER. CLEAR PVC SHALL EXTEND FROM CONNECTIONS AT SKIT TO MANIFOLD.

SECTION A
M-02

1/2" = 1'

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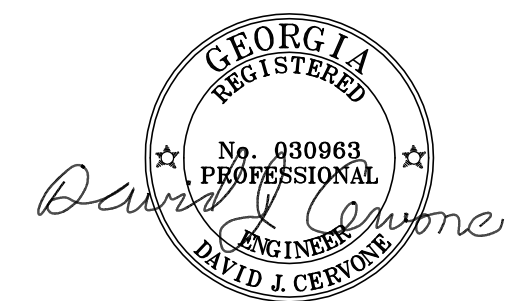
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A	04/29/14	ISSUED FOR BID

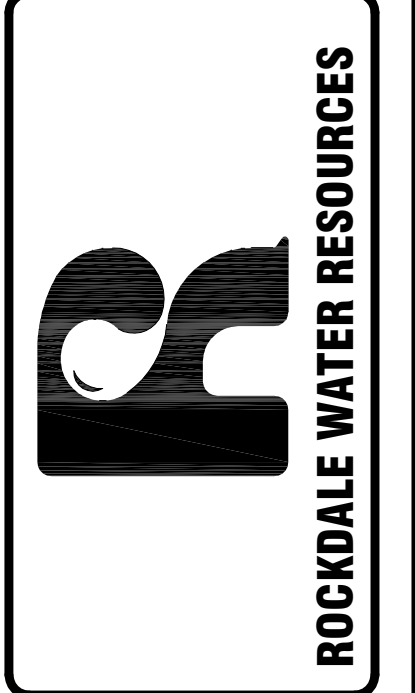
SECTION VIEW

DESIGNED BY:	DAVID CERVONE
DRAWN BY:	ELIZABETH LEE
CHECKED BY:	DAVID CERVONE
DATE:	4/29/2014
FILE NAME:	M-03

M-03



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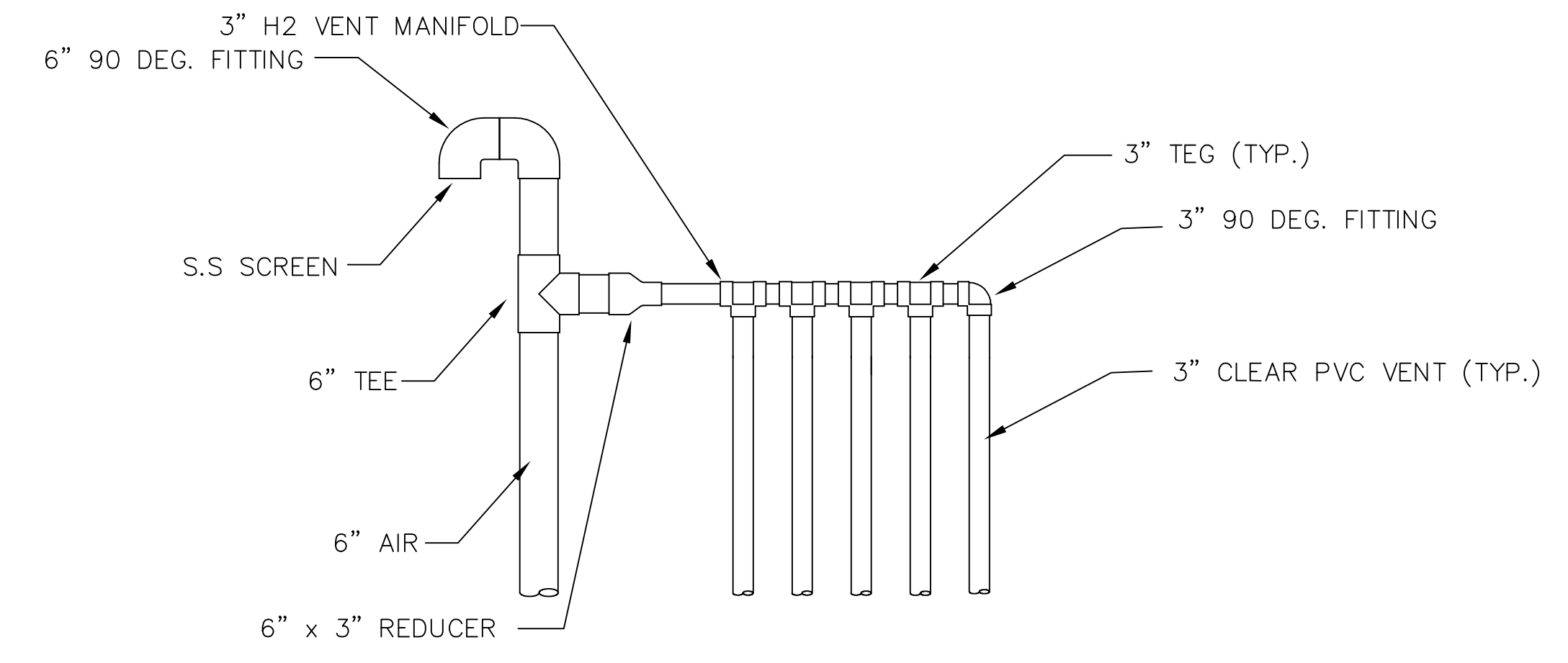


REVISION	
No.	DESCRIPTION
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A	04/29/14 ISSUED FOR BID

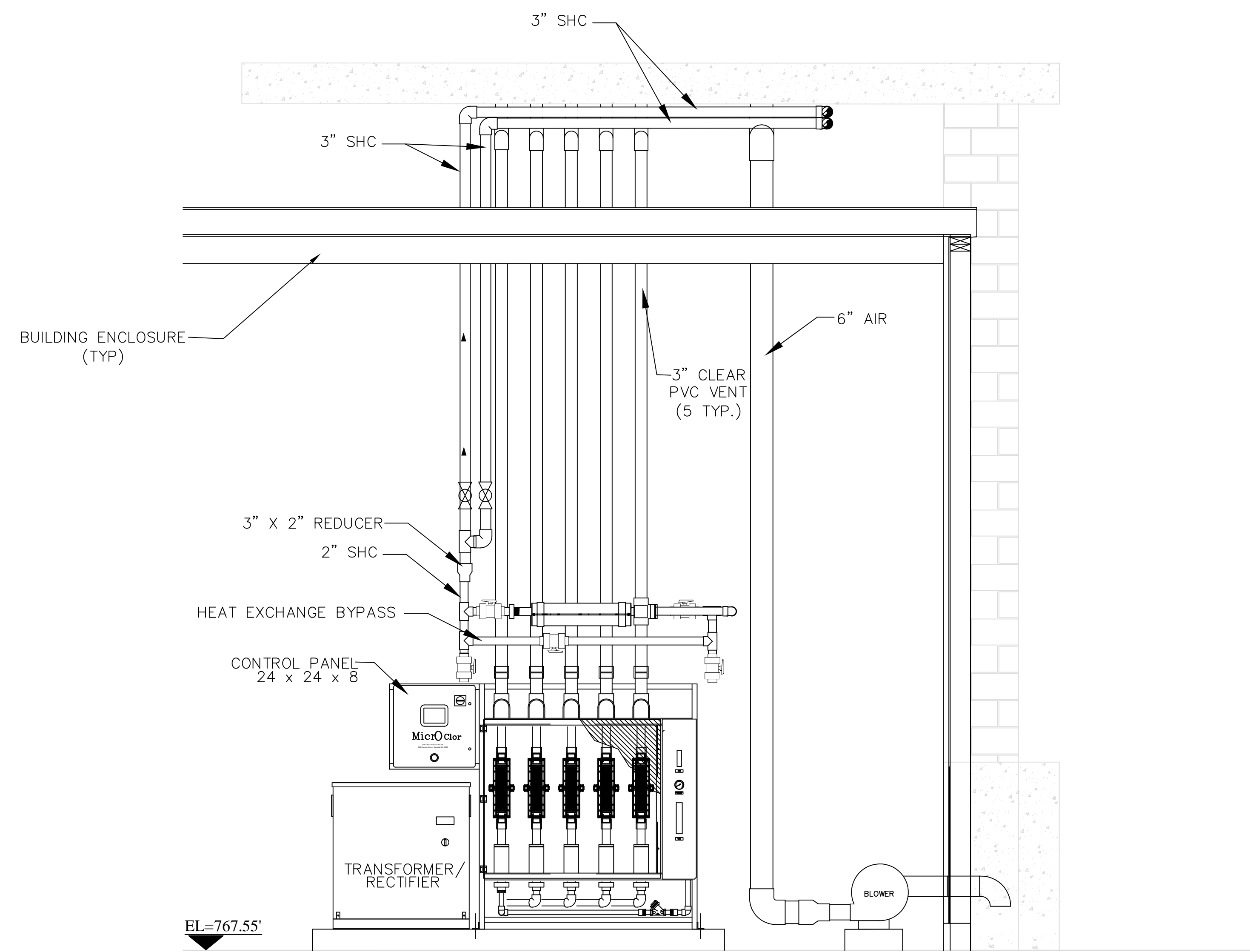
SECTION VIEW

DESIGNED BY:	DAVID CERVONE
DRAWN BY:	ELIZABETH LEE
CHECKED BY:	DAVID CERVONE
DATE:	4/29/2014
FILE NAME:	M-04

M-04

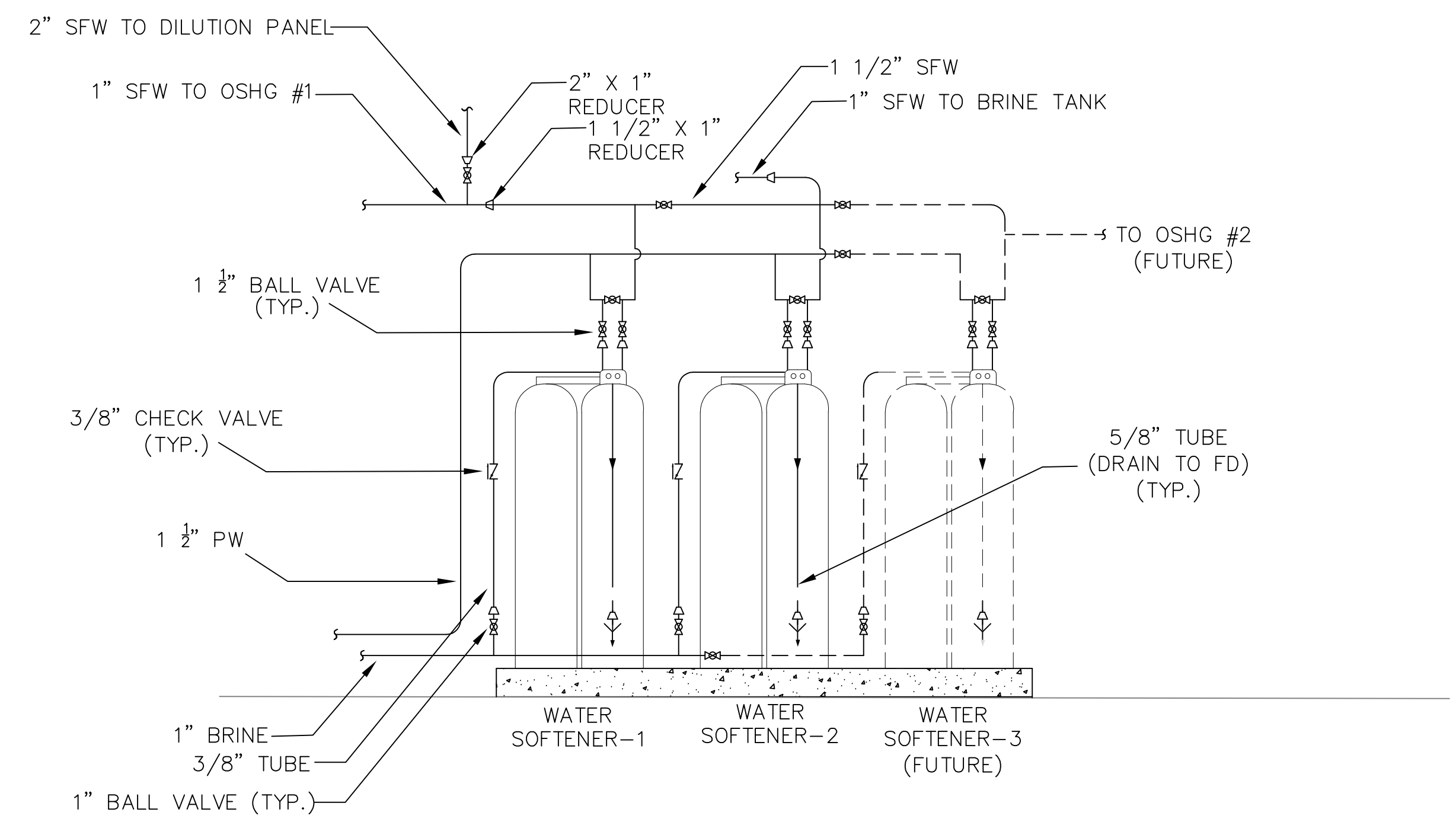


SECTION D M-02
H2 MANIFOLD DETAIL
 $\frac{1}{2}'' = 1'$

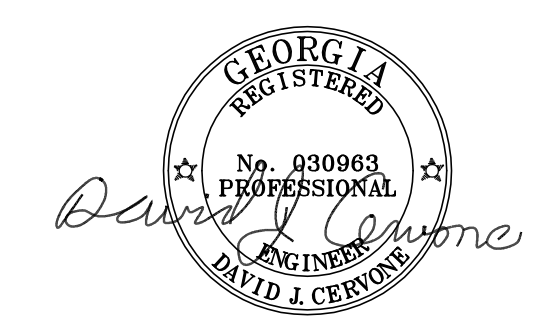


NOTE:
 SMALL DIAMETER PIPING NOT SHOWN. (BRINE, SFW). REFER TO P&ID,
 PLAN VIEW AND DETAIL DRAWINGS FOR ADDITIONAL INFORMATION

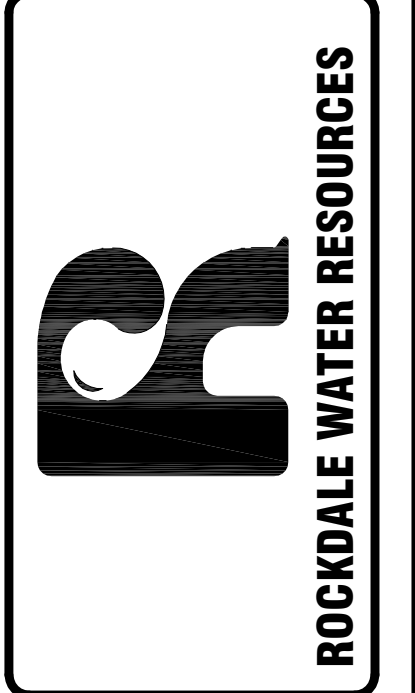
SECTION B M-02
 $\frac{1}{2}'' = 1'$



SECTION C M-02
 $\frac{1}{2}'' = 1'$



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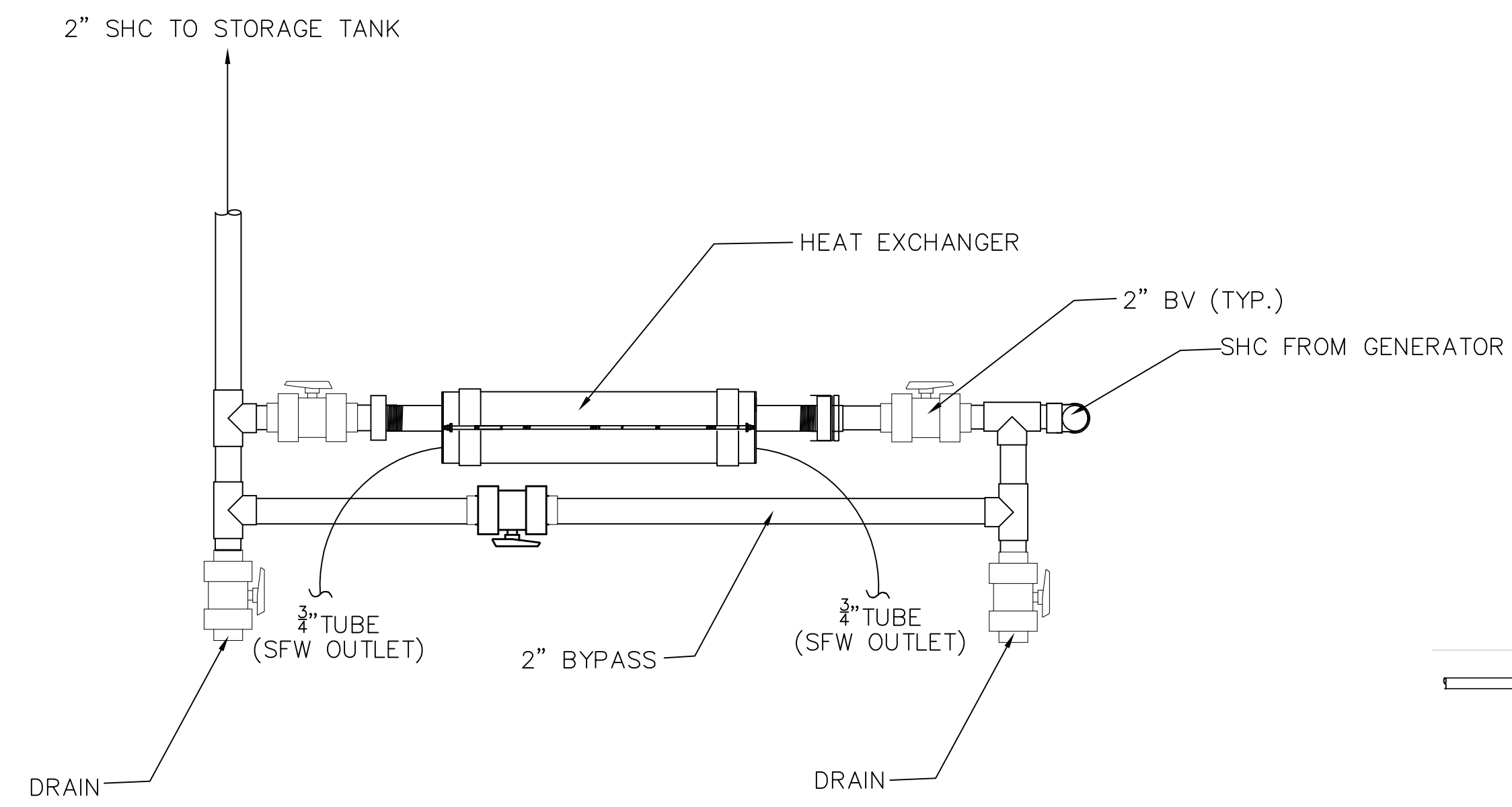
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No.	DESCRIPTION
0	04/09/14 ISSUED FOR EPD APPROVAL
A	04/29/14 ISSUED FOR BID

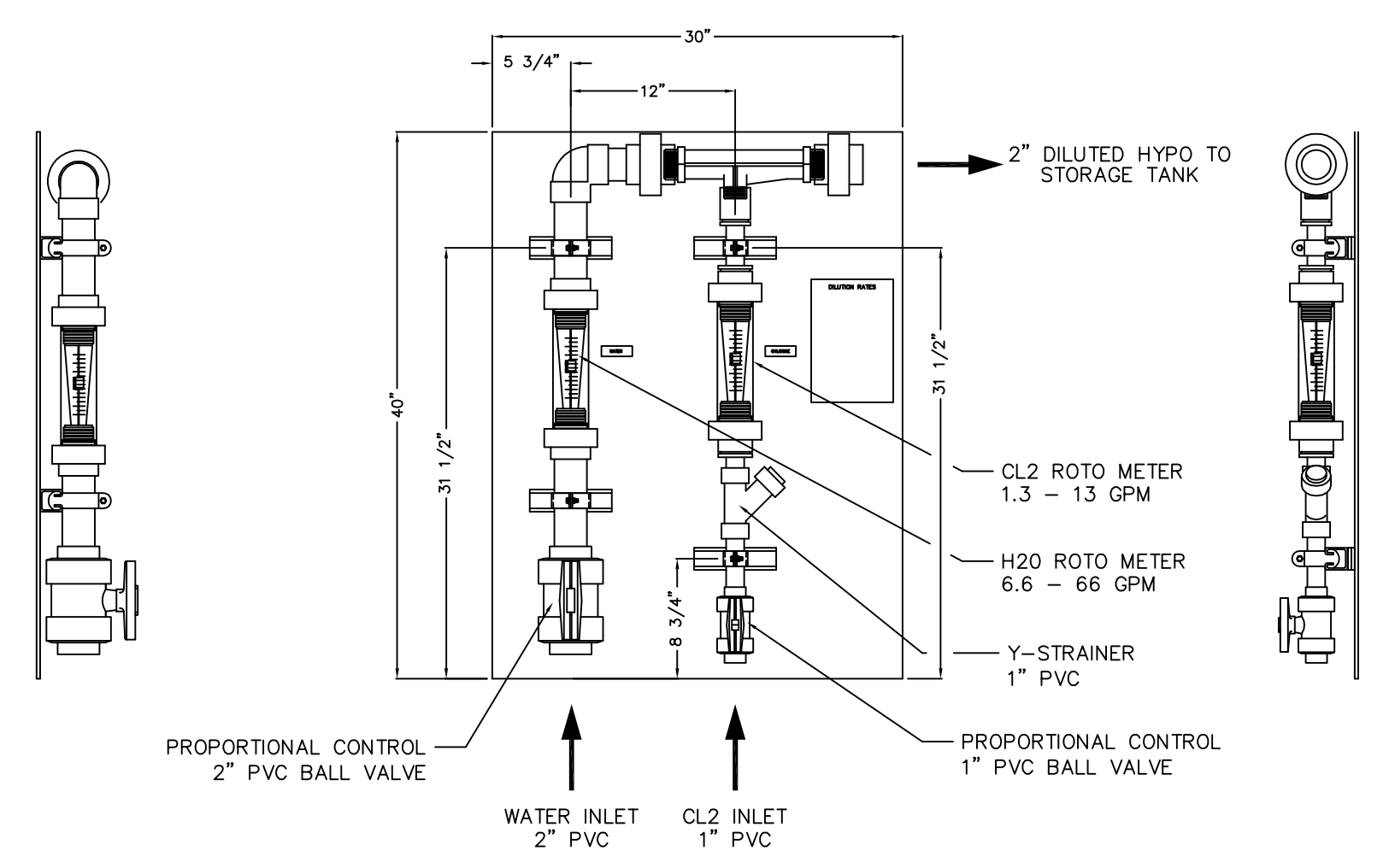
DETAILS

DESIGNED BY: DAVID CERVONE
 DRAWN BY: ELIZABETH LEE
 CHECKED BY: DAVID CERVONE
 DATE: 5/2/2014
 FILE NAME: M-05

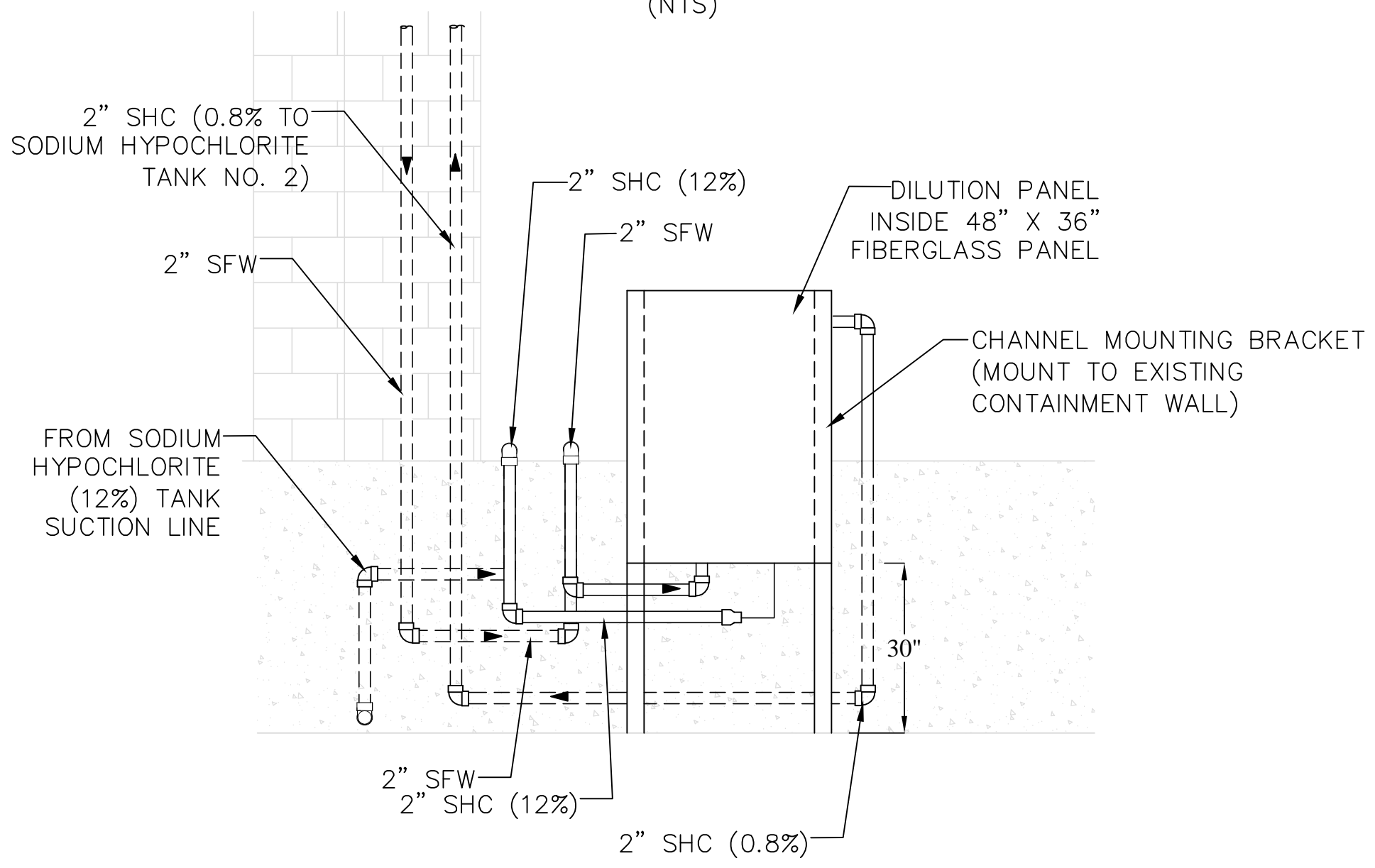
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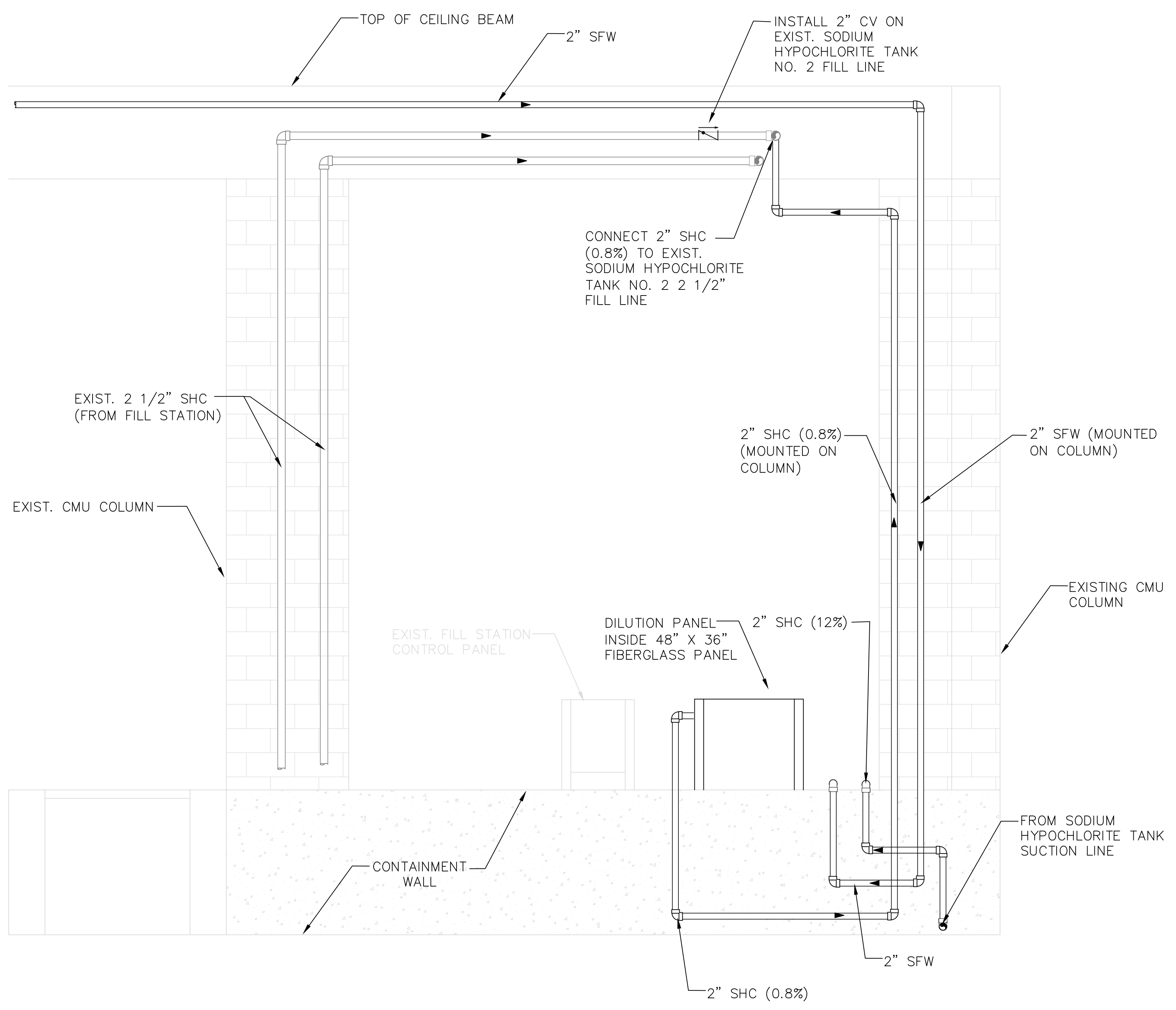
HEAT EXCHANGER DETAIL
 (NTS)



DILUTION PANEL DETAIL
 (SUPPLIED PRE-ASSEMBLED BY OSHG SYSTEM VENDOR)
 (NTS)



DILUTION PANEL FRONT VIEW
 $\frac{1}{2}'' = 1'$



SECTION E
DILUTION PANEL/TANK PIPING
 $\frac{1}{2}'' = 1'$



SCHEMATIC DIAGRAM SYMBOLS

Table of schematic diagram symbols including conductors, circuit breakers, fuses, switches, transformers, and motors with their respective symbols and descriptions.

ONE LINE DIAGRAM SYMBOLS

Table of one line diagram symbols including low voltage power circuits, lighting arrestors, disconnects, magnetic-only circuit breakers, fuses, transformers, current transformers, meters, and variable frequency drives.

CIRCUIT AND RACEWAY SYMBOLS

Table of circuit and raceway symbols including raceway/wiring systems, home runs, lighting/receptacle branch circuiting, and current transformers.

GENERAL ABBREVIATIONS

Table of general abbreviations for electrical components such as alarm relays, ammeters, alternating current, circuit breakers, conductors, and various types of switches and relays.

GENERAL NOTES:

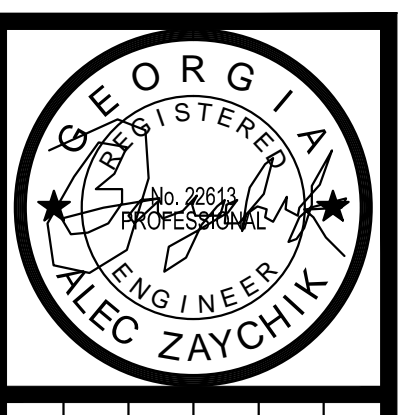
- 1. SCOPE: A. FURNISH ALL LABOR, MATERIAL, EQUIPMENT AND TOOLS REQUIRED TO COMPLETE INSTALLATION OF THE ELECTRICAL SYSTEM INCLUDING BUT NOT LIMITED TO WIRING, BOXES, LIGHT FIXTURES, PANELS, SWITCHES, RECEPTACLES, DISCONNECTS, STARTERS, AND ALL OTHER WORK INDICATED ON THE DRAWINGS OR AS SPECIFIED HEREIN. B. OBTAIN ALL PERMITS, INSPECTIONS, AND APPROVALS AS REQUIRED BY THE LOCAL AUTHORITIES HAVING JURISDICTION AND DELIVER CERTIFICATE OF APPROVAL TO THE GENERAL CONTRACTOR. ALL ASSOCIATED FEES SHALL BE PAID BY THE CONTRACTOR. C. ALL MATERIALS AND EQUIPMENT OF THE ELECTRICAL SYSTEM NECESSARY FOR ITS PROPER OPERATION, BUT NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED WITHOUT ADDITIONAL CHARGE. D. WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2011 NATIONAL ELECTRICAL CODE, THE LATEST STANDARD BUILDING CODE, NFPA 820, AND LOCAL AUTHORITIES HAVING JURISDICTION. 2. ALL SUBSTITUTIONS FOR EQUIPMENT AND MATERIAL SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION. 3. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL OTHER TRADES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACTUAL LOCATION OF EQUIPMENT, DUCTWORK, PIPING, ETC. AND COORDINATE THE INSTALLATION ACCORDINGLY. 4. ALL CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM CONDUCTOR SIZE FOR POWER AND LIGHTING WIRING. USE #14 AWG MINIMUM CONDUCTOR FOR SIGNAL WIRING. THE INSULATION FOR ALL CONDUCTORS SHALL BE THWN-2. SERVICE ENTRANCE CONDUCTORS SHALL BE XHHW. 5. POWER WIRES SIZES #12 AWG AND #10 AWG SHALL BE SOLID TYPE. ALL OTHER SIZES SHALL BE STRANDED. 6. ALL EXPOSED OUTDOOR CONDUITS SHALL BE GALVANIZED RIGID STEEL, MINIMUM OF 3/4". ALL BURIED CONDUIT SHALL BE PVC-40, MINIMUM OF 1". ALL UNDERGROUND CONDUITS SHALL HAVE RIGID ELBOWS. 7. ALL FITTINGS SHALL BE CAST WITH THREADED HUBS. ALL CONNECTIONS SHALL BE COMPRESSION TYPE.

GROUNDING SYMBOLS

- Ground rod symbols and descriptions: 3/4" x 10'-0", copperplated (unless otherwise noted); ground rod and well; compression type grounding bond to motor casing or equipment; exothermic type grounding bond to motor casing or equipment; bare copper grounding conductor - #2 unless otherwise noted; buried bare copper grounding conductor - #4/0 unless otherwise noted.

PLAN DRAWING SYMBOLS

- Motor connection symbols and descriptions: motor connection; motor starter, individual; combination motor starter/disconnect; disconnect switch; field instrument connection; start/stop hand station; 120V, 20A, 1P toggle switch; duplex 120V receptacle; GFCI duplex 120V receptacle; quadruplex 120V receptacle; combo telephone/data box; junction box; 60A, 480V, 3PH welding receptacle.

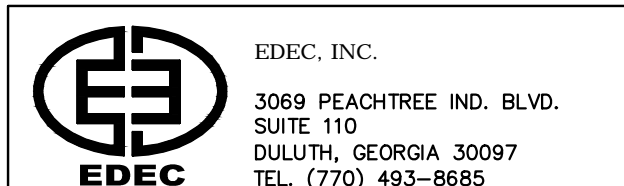


Revisions table with columns for No., Description, Date, and Initials. Includes entries for 'ISSUED FOR APPROVAL' and 'ISSUED FOR BID'.

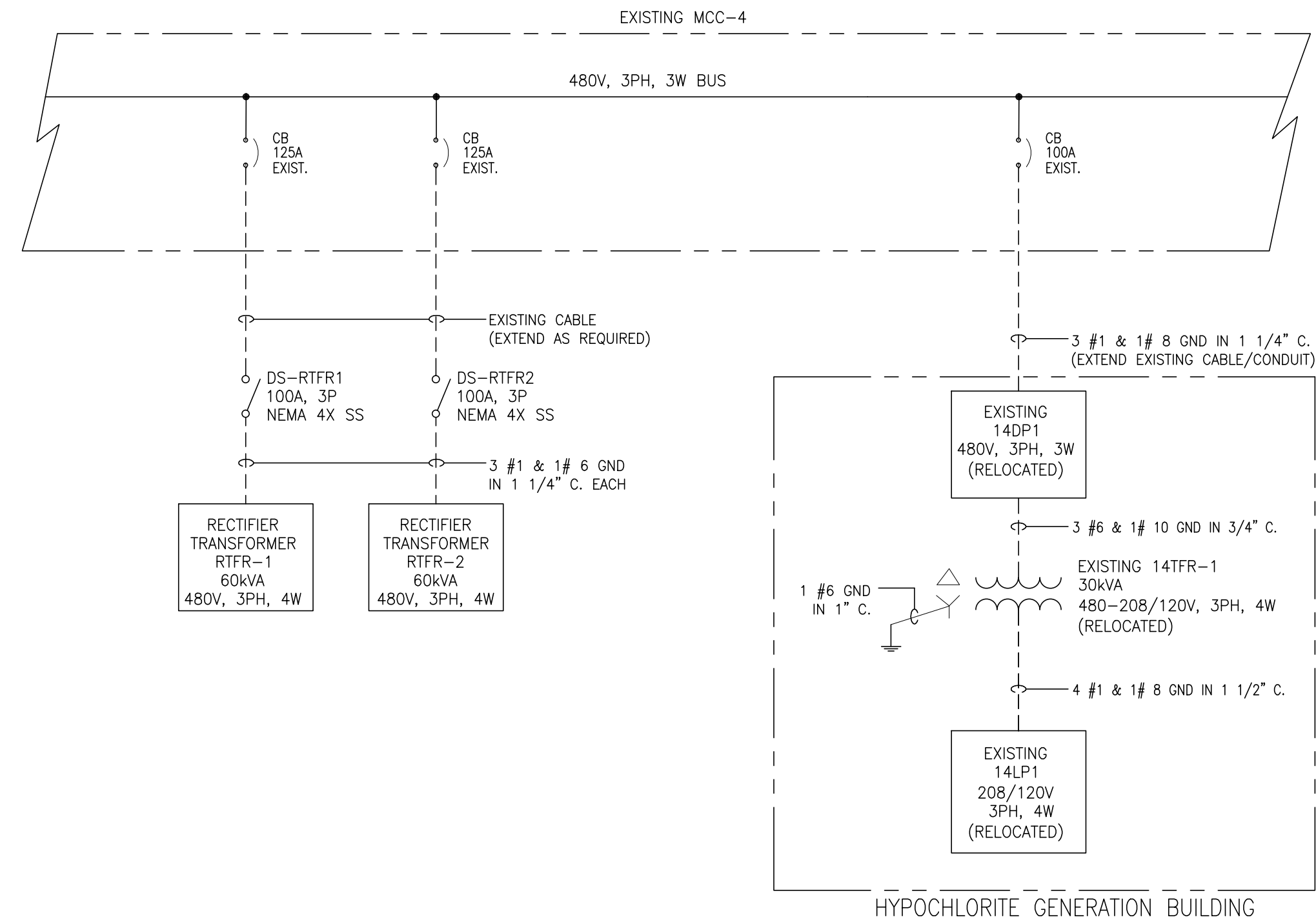


GEES MILL WATER TREATMENT PLANT HYPOCHLORITE GENERATION SYSTEM ELECTRICAL LEGEND AND NOTES

Project information table including Drawn: RV, Design: AZ, Checked: AZ, Project No: R2014-003, Scale: AS SHOWN, Date: MARCH 2014, and Sheet No. E-1 of 5.



R:\2014 Projects\14001-RM Rockdale Hypochlorite Generators\1.0 Drawings\1.1 Electrical\E-2 One Line Diagram.dwg 04/21/2014 9:31am Remma



1 PARTIAL MCC-4 ONE LINE DIAGRAM

NOTES:

1. RECTIFIER TRANSFORMERS RTRF-1 AND RTRF-2 SHALL BE SUPPLIED BY EQUIPMENT VENDOR. SEE DWG. E-4 FOR WIRING DIAGRAM.

EXISTING PANEL 14DP1		ENCLOSURE TYPE: NEMA 1								
VOLTAGE (L-N): 480		MOUNTING: SURFACE								
VOLTAGE (L-L): ---		AIC RATING (A): 22000								
PHASES, WIRES: 3 ϕ 3 W		NOTES: LOCATED IN MAIN ELECTRICAL ROOM								
MINIMUM BUS CAPACITY (A): 100A		MAIN O.C. DEVICE (A): 100A MLO								
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (AMP)			POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	SPARE	50	3	0.0	0.0		3	20	SPARE	2
3				0.0	0.0					4
5										6
7	SPACE			0.0	0.0				SPACE	8
9	SPACE								SPACE	10
11	SPACE								SPACE	12
13	SPACE			0.0	0.0				SPACE	14
15	SPACE								SPACE	16
17	SPACE								SPACE	18
19	SPACE			0.0	0.0				SPACE	20
21	SPACE								SPACE	22
23	SPACE			0.0	0.0				SPACE	24
25	SPACE	20	3	0.0	36.0		3	40	TRANSFORMER 14TFR-1	26
27										28
29										30
				CONNECTED LOAD PHASE TOTALS (AMP)						
				36	36	36				

USE #12 WIRES FOR 20A CB
 USE #8 WIRES FOR 40A CB
 USE #6 WIRES FOR 50A CB
 SEE CABLE SCHEDULE FOR CABLE/CONDUIT SIZES IF FEEDER BREAKER SIZE IS GREATER THAN 30A.

EXISTING PANEL 14LP-1		ENCLOSURE TYPE: NEMA 1								
VOLTAGE (L-N): 208		MOUNTING: SURFACE								
VOLTAGE (L-L): 120		AIC RATING (A): 22000								
PHASES, WIRES: 3 ϕ 4 W		NOTES: LOCATED IN MAIN ELECTRICAL ROOM								
MINIMUM BUS CAPACITY (A): 100A		MAIN O.C. DEVICE (A): 100A MB								
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (AMP)			POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	CONTROL PANEL LCP14-2A	30	2	20.0	20.0		2	30	AC OUTDOOR UNIT AC-1-OUT	2
3										4
5	CONTROL PANEL LCP14-2B	30	2				2	20	AC INDOOR UNIT AC-1-IN	6
7				20.0	1.0					8
9	BLOWER CONTROL PANEL LCP14-BL	40	1							10
11	SPACE								SPACE	12
13	SPACE			0.0	0.0		1	20	SPACE	14
15	SPACE						1	20	SPACE	16
17	LIGHTING	20	1				1	20	HEAT TRACE (NOTE 1)	18
19	LIGHTING	20	1	2.0	10.0		1	20	HEAT TRACE (NOTE 1)	20
21	RECEPTACLES	20	1				1	20	EXHAUST FAN	22
23	HEATER	20	1				2	60		24
25	HEATER	20	1	0.0	0.0					26
27	SPACE	15	2				2	15	SPACE	28
29										30
31	SPACE			0.0	0.0				SPACE	32
33	SPACE								SPACE	34
35	SPACE								SPACE	36
				CONNECTED LOAD PHASE TOTALS (AMP)						
				73	68	38				

USE #12 WIRES FOR 20A CB
 USE #10 WIRES FOR 30A CB
 USE #8 WIRES FOR 40A CB
 SEE CABLE SCHEDULE FOR CABLE/CONDUIT SIZES IF FEEDER BREAKER SIZE IS GREATER THAN 30A.

NOTES:

1. THE CONTRACTOR SHALL PROVIDE HEAT TRACE FOR THE PIPING AS SPECIFIED ON MECHANICAL DRAWINGS. RUN 2 #12 & 1 #12 GND IN 3/4" C TO THE CONNECTION POINT OF HEAT TRACE. PROVIDE JUNCTION BOX IF REQUIRED.



Date	Initial	Revisions
03-19-14	AZ	ISSUED FOR APPROVAL
05-28-14	AZ	ISSUED FOR BID
04-21-14	AZ	ISSUED FOR EPD APPROVAL



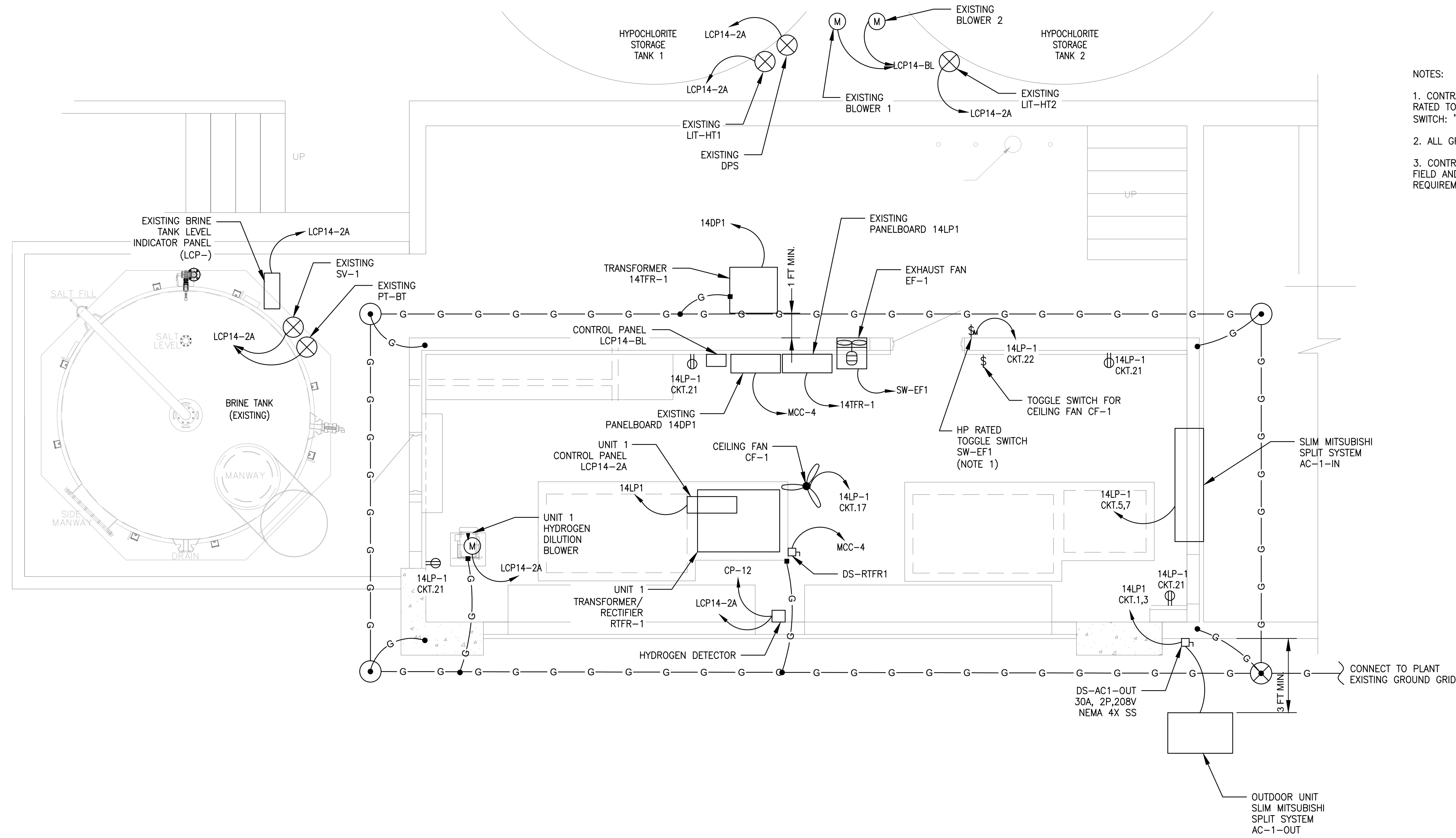
GEES MILL WATER TREATMENT PLANT
 HYPOCHLORITE GENERATION SYSTEM
 ONE LINE DIAGRAM AND
 PANELBOARD SCHEDULES

Drawn: RV	Checked: AZ	Project No: R2014-003
Design: AZ	Scale: AS SHOWN	Date: MARCH 2014
E-2 One Line Diagram.dwg		

Sheet No. E-2	2 of 5
---------------	--------

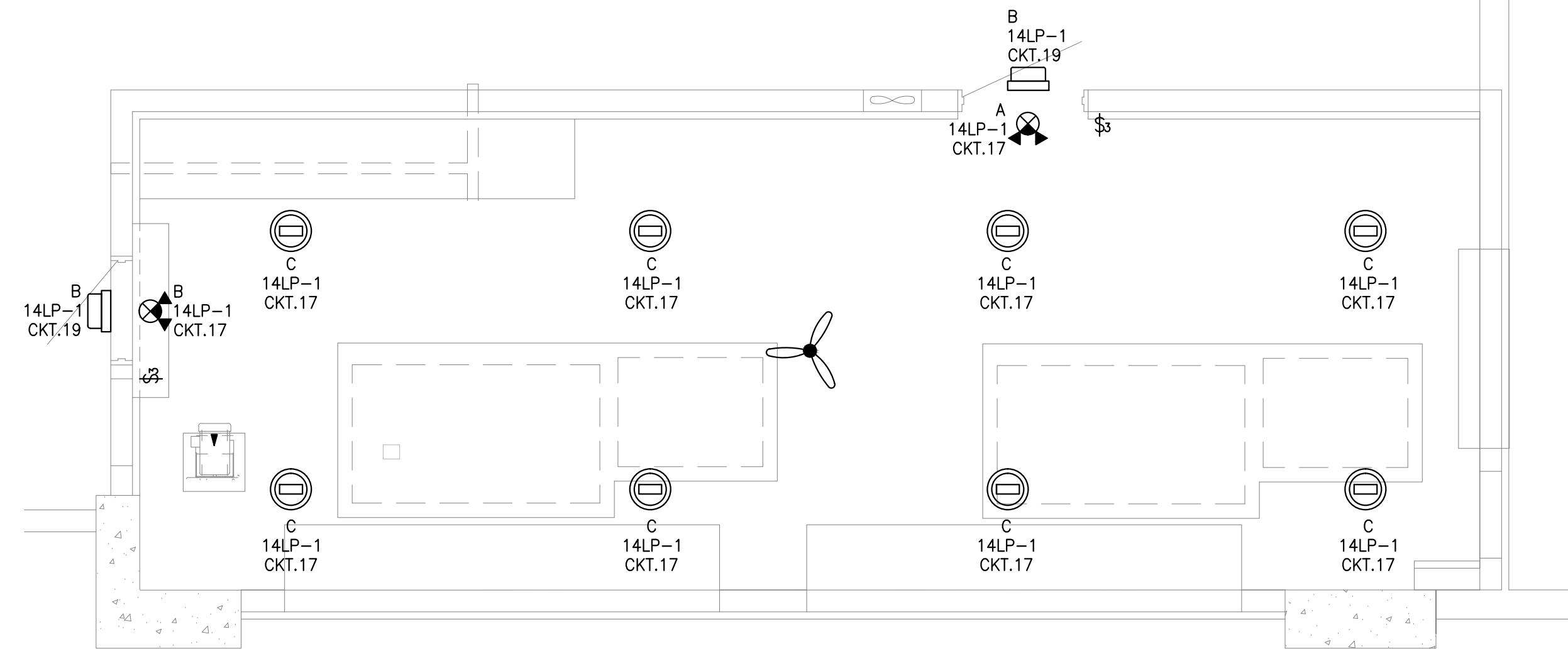
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 3069 PEACHTREE IND. BLVD.
 SUITE 110
 DULUTH, GEORGIA 30097
 TEL. (770) 493-8685

R:2014 Projects\14001-RM Rockdale Hypochlorite Generators\1.0 Drawings\1.1 Electrical\E-3 Power Plan REV.B.dwg 03/28/2014 3:01pm Reema



- NOTES:
1. CONTRACTOR SHALL PROVIDE AND INSTALL NEMA 4X STAINLESS STEEL, HP RATED TOGGLE SWITCH FOR EXHAUST FAN EF-1. PROVIDE A SIGN ABOVE THE SWITCH: "TURN ON EXHAUST FAN BEFORE ENTERING!"
 2. ALL GROUND WIRE CONNECTIONS SHALL BE CADWELDED EXOTHERMIC TYPE.
 3. CONTRACTOR SHALL COORDINATE THE EXACT EQUIPMENT LOCATIONS IN THE FIELD AND ADJUST AS NEEDED TO MEET MINIMUM WORKING SPACE NEC REQUIREMENTS.

1 HYPOCHLORITE GENERATOR SYSTEM POWER AND GROUNDING PLAN
SCALE: 3/8"=1'-0"



2 HYPOCHLORITE GENERATOR SYSTEM LIGHTING PLAN
SCALE: 3/8"=1'-0"

LIGHT FIXTURE SCHEDULE			
SYMBOL/TYPE	DESCRIPTION	LAMP/VOLTAGE	MOUNTING
A	WALLPACK, 100W METAL HALIDE WITH PHOTOCELL LITHONIA #TWH-100M-TB-PE-LPI	120V/1PH 100WATTS	WALL
B	EMERGENCY EXIT LIGHT COMBO UNIT LITHONIA #LHQM-LED-R-HO	120/1PH 6WATTS	WALL/ CEILING
C	100W LED HIGH BAY INDUSTRIAL CEILING MOUNT FIXTURE EVERMORE #EM-HB-B-100 (WWW.EVERMORELED.COM)	120V/1PH 100WATTS	CEILING
⊕	DUPLEX WEATHERPROOF RECEPTACLE INCLUDES BACK BOX, RECEPTACLE, AND WEATHERPROOF COVER	115VAC/1PH	

NOTE:
DESIGN IS BASED ON THE EQUIPMENT SHOWN IN THE ABOVE SCHEDULE.
LIGHTS AND POLE SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR PER SCHEDULE. ANY SUBSTITUTIONS SHALL BE APPROVED BY ENGINEER PRIOR TO PURCHASE/INSTALLATION.



No.	Revisions	Date	Initial
A	ISSUED FOR APPROVAL	03-19-14	AZ
B	ADDED CEILING FAN	03-21-14	AZ
C	ISSUED FOR BID	03-28-14	AZ



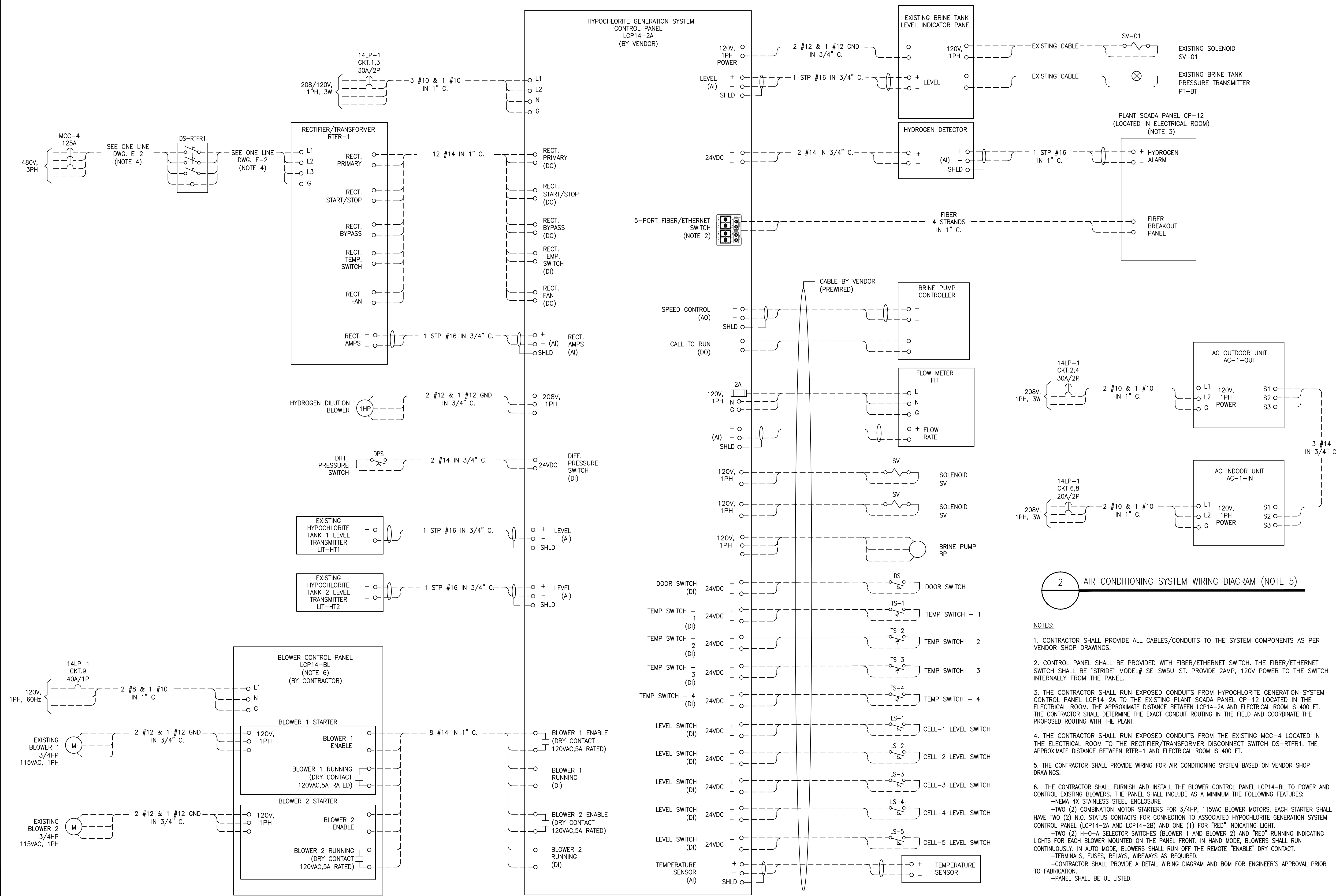
GEES MILL WATER TREATMENT PLANT
HYPOCHLORITE GENERATION SYSTEM

POWER, GROUNDING AND LIGHTING PLANS

Drawn: RV	Project No: R2014-003
Design: AZ	Scale: AS SHOWN
Checked: AZ	Date: MARCH 2014
E-3 Power Plan REV.B.dwg	

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R:2014 Projects\14001-RM Rockdale Hypochlorite Generators\1.0 Drawings\1.1 Electrical\E-4 Schematic Diagram.dwg 03/28/2014 3:01pm Reema



1 TYPICAL HYPOCHLORITE GENERATOR SYSTEM CONTROL PANEL LCP14-2A AND LCP14-2B SCHEMATIC

2 AIR CONDITIONING SYSTEM WIRING DIAGRAM (NOTE 5)

- NOTES:**
- CONTRACTOR SHALL PROVIDE ALL CABLES/CONDUITS TO THE SYSTEM COMPONENTS AS PER VENDOR SHOP DRAWINGS.
 - CONTROL PANEL SHALL BE PROVIDED WITH FIBER/ETHERNET SWITCH. THE FIBER/ETHERNET SWITCH SHALL BE "STRIDE" MODEL# SE-SWSU-ST. PROVIDE 2AMP, 120V POWER TO THE SWITCH INTERNALLY FROM THE PANEL.
 - THE CONTRACTOR SHALL RUN EXPOSED CONDUITS FROM HYPOCHLORITE GENERATION SYSTEM CONTROL PANEL LCP14-2A TO THE EXISTING PLANT SCADA PANEL CP-12 LOCATED IN THE ELECTRICAL ROOM. THE APPROXIMATE DISTANCE BETWEEN LCP14-2A AND ELECTRICAL ROOM IS 400 FT. THE CONTRACTOR SHALL DETERMINE THE EXACT CONDUIT ROUTING IN THE FIELD AND COORDINATE THE PROPOSED ROUTING WITH THE PLANT.
 - THE CONTRACTOR SHALL RUN EXPOSED CONDUITS FROM THE EXISTING MCC-4 LOCATED IN THE ELECTRICAL ROOM TO THE RECTIFIER/TRANSFORMER DISCONNECT SWITCH DS-R1FR1. THE APPROXIMATE DISTANCE BETWEEN R1FR-1 AND ELECTRICAL ROOM IS 400 FT.
 - THE CONTRACTOR SHALL PROVIDE WIRING FOR AIR CONDITIONING SYSTEM BASED ON VENDOR SHOP DRAWINGS.
 - THE CONTRACTOR SHALL FURNISH AND INSTALL THE BLOWER CONTROL PANEL LCP14-BL TO POWER AND CONTROL EXISTING BLOWERS. THE PANEL SHALL INCLUDE AS A MINIMUM THE FOLLOWING FEATURES:
 - NEMA 4X STAINLESS STEEL ENCLOSURE
 - TWO (2) COMBINATION MOTOR STARTERS FOR 3/4HP, 115VAC BLOWER MOTORS. EACH STARTER SHALL HAVE TWO (2) N.O. STATUS CONTACTS FOR CONNECTION TO ASSOCIATED HYPOCHLORITE GENERATION SYSTEM CONTROL PANEL (LCP14-2A AND LCP14-2B) AND ONE (1) FOR "RED" INDICATING LIGHT.
 - TWO (2) H-O-A SELECTOR SWITCHES (BLOWER 1 AND BLOWER 2) AND "RED" RUNNING INDICATING LIGHTS FOR EACH BLOWER MOUNTED ON THE PANEL FRONT. IN HAND MODE, BLOWERS SHALL RUN CONTINUOUSLY. IN AUTO MODE, BLOWERS SHALL RUN OFF THE REMOTE "ENABLE" DRY CONTACT.
 - TERMINALS, FUSES, RELAYS, WIREWAYS AS REQUIRED.
 - CONTRACTOR SHALL PROVIDE A DETAIL WIRING DIAGRAM AND BOM FOR ENGINEER'S APPROVAL PRIOR TO FABRICATION.
 - PANEL SHALL BE UL LISTED.

EDEC, INC.
 3069 PEACHTREE IND. BLVD.
 SUITE 110
 DULUTH, GEORGIA 30097
 TEL. (770) 493-8685



Date	Initial	Revisions
03-19-14	AZ	ISSUED FOR APPROVAL
03-28-14	AZ	ISSUED FOR BID

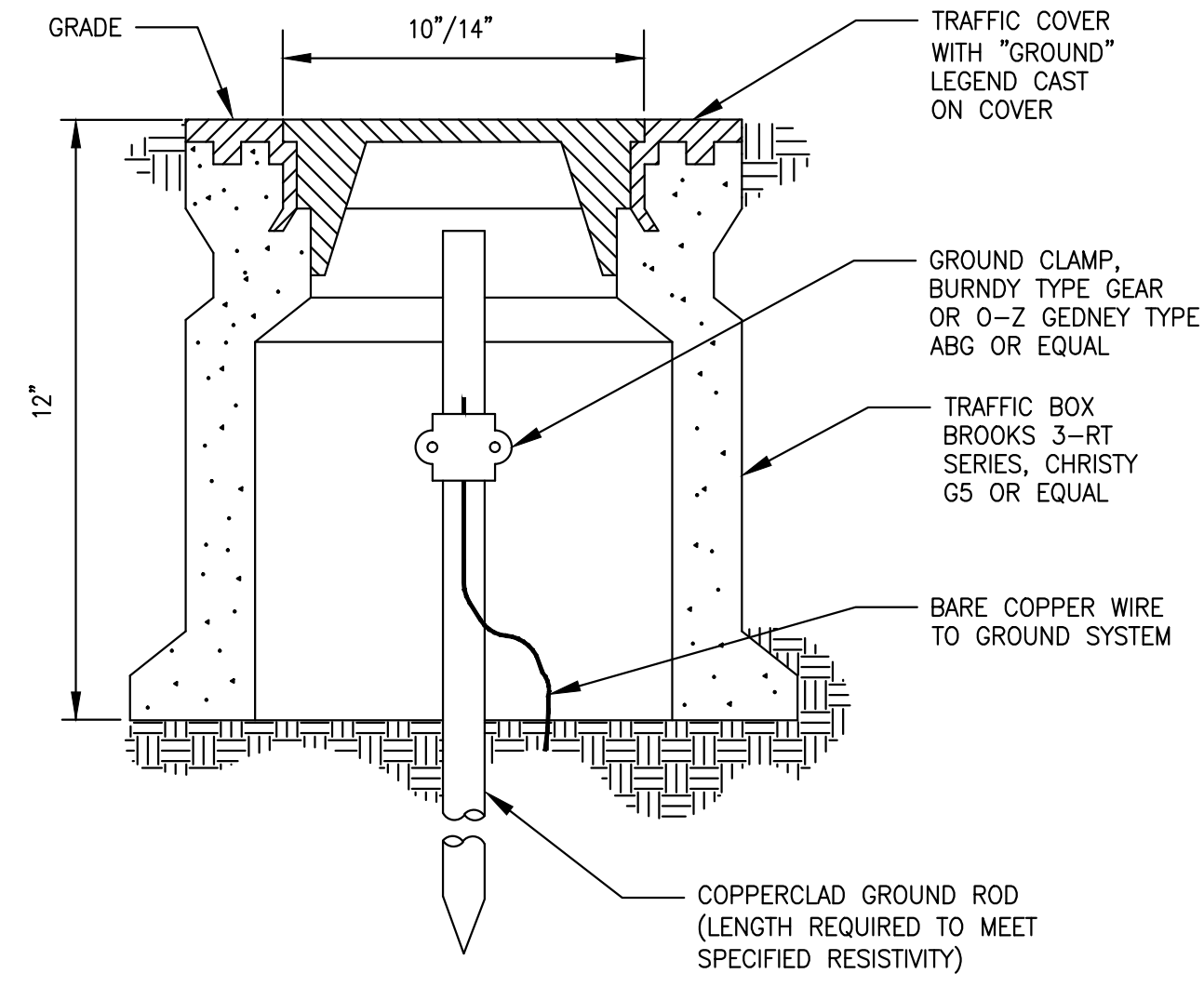


**GEES MILL WATER TREATMENT PLANT
 HYPOCHLORITE GENERATION SYSTEM**

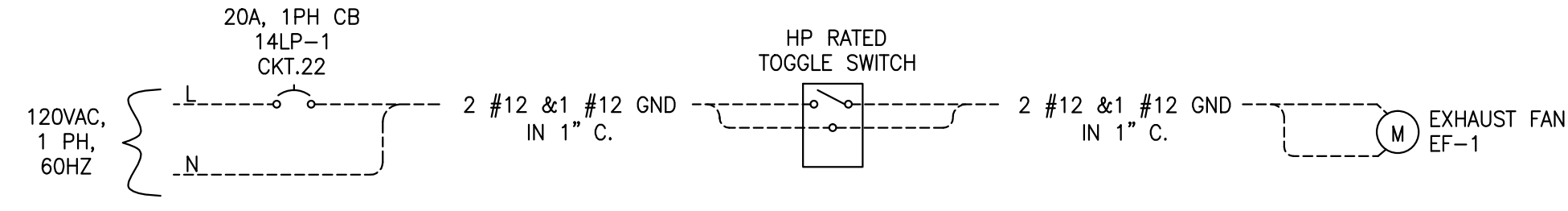
SCHEMATIC WIRING DIAGRAM

Drawn: RV	Design: AZ	Checked: AZ	Project No: R2014-003
Date: MARCH 2014	Scale: AS SHOWN	Sheet No: 4	of 5

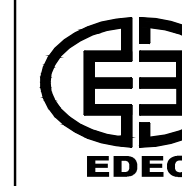
R:2014 Projects\14001-RM Rockdale Hypochlorite Generators\1.0 Drawings\1.1 Electrical\E-5 Details.dwg 03/28/2014 3:02pm Reema



1 GROUND WELL DETAIL



2 EXHAUST FAN SCHEMATIC DIAGRAM



EDEC, INC.
3069 PEACHTREE IND. BLVD.
SUITE 110
DULUTH, GEORGIA 30097
TEL. (770) 493-8685

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**Gees Mill Water Treatment Plant
HYPOCHLORITE GENERATION SYSTEM
ELECTRICAL INSTALLATION DETAILS**



No.	Revisions	Initial	Date
A	ISSUED FOR APPROVAL	AZ	03-19-14
B	ISSUED FOR BID	AZ	03-28-14

