

**PROPOSED DISINFECTION BUILDING
FOR
RCH WATER SUPPLY CORPORATION
ROCKWALL COUNTY, TEXAS
DECEMBER 2016**



DBI DANIEL & BROWN INC.
ENGINEERS/CONSULTANTS/PLANNERS

118 McKinney St.

P.O. Box 606

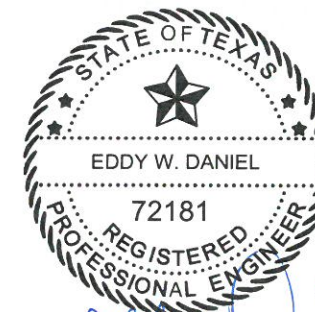
Farmersville, Texas 75442

Phone 972-784-7777

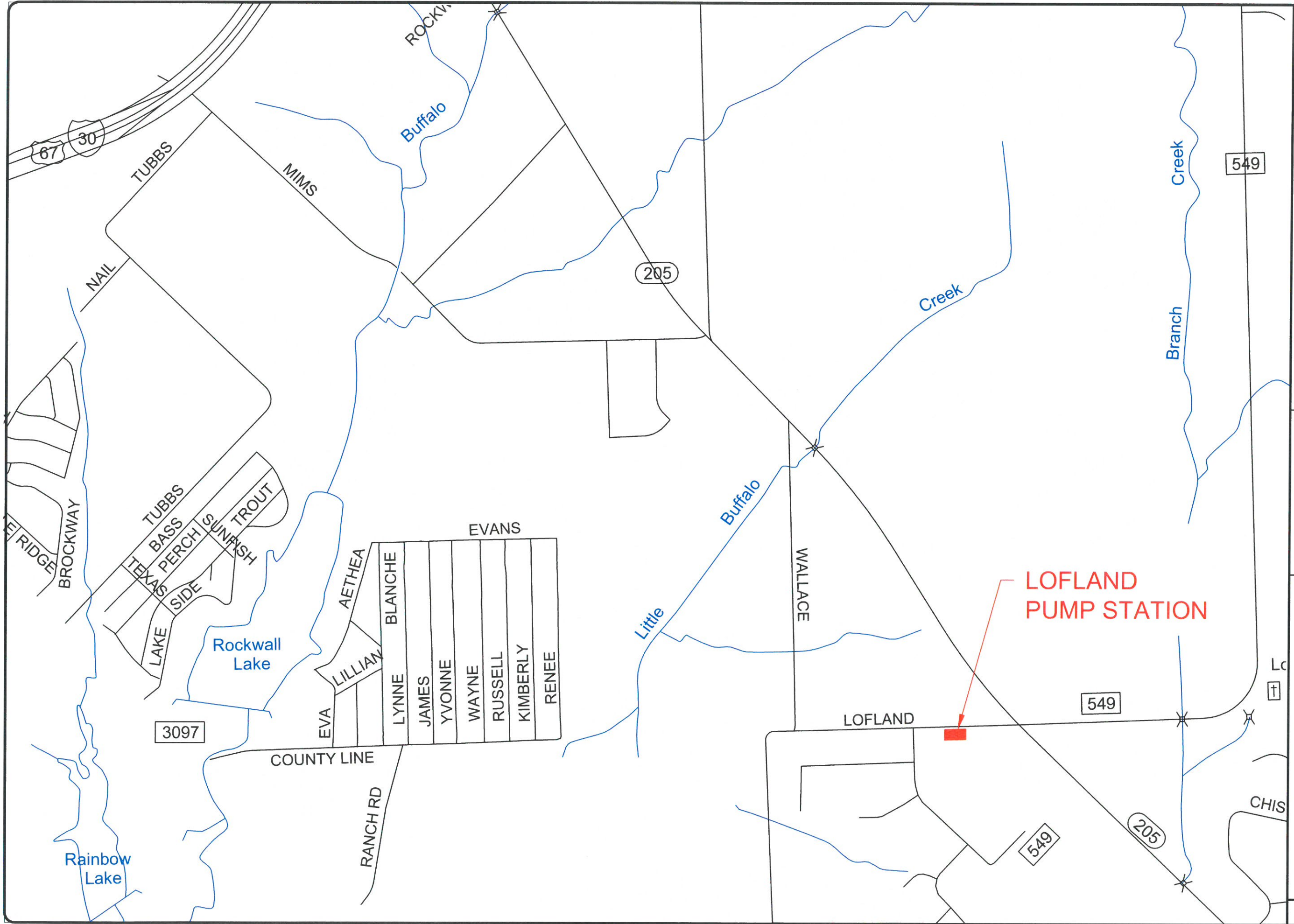
Fax 972-782-7721

www.DBIConsultants.com

Registration No.: F-002225

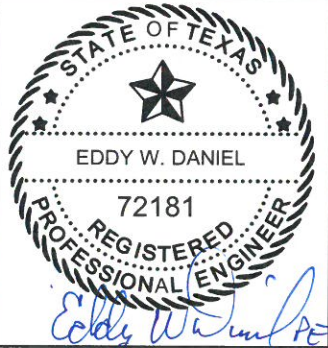


Eddy W. Daniel P.E.
12/8/16



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DESIGNED: E.W.D. DATE: 9/2/2016 FIRM REGISTRATION NO.:
 DRAWN: J.R.D. REVISION: 12/8/16 F-002225
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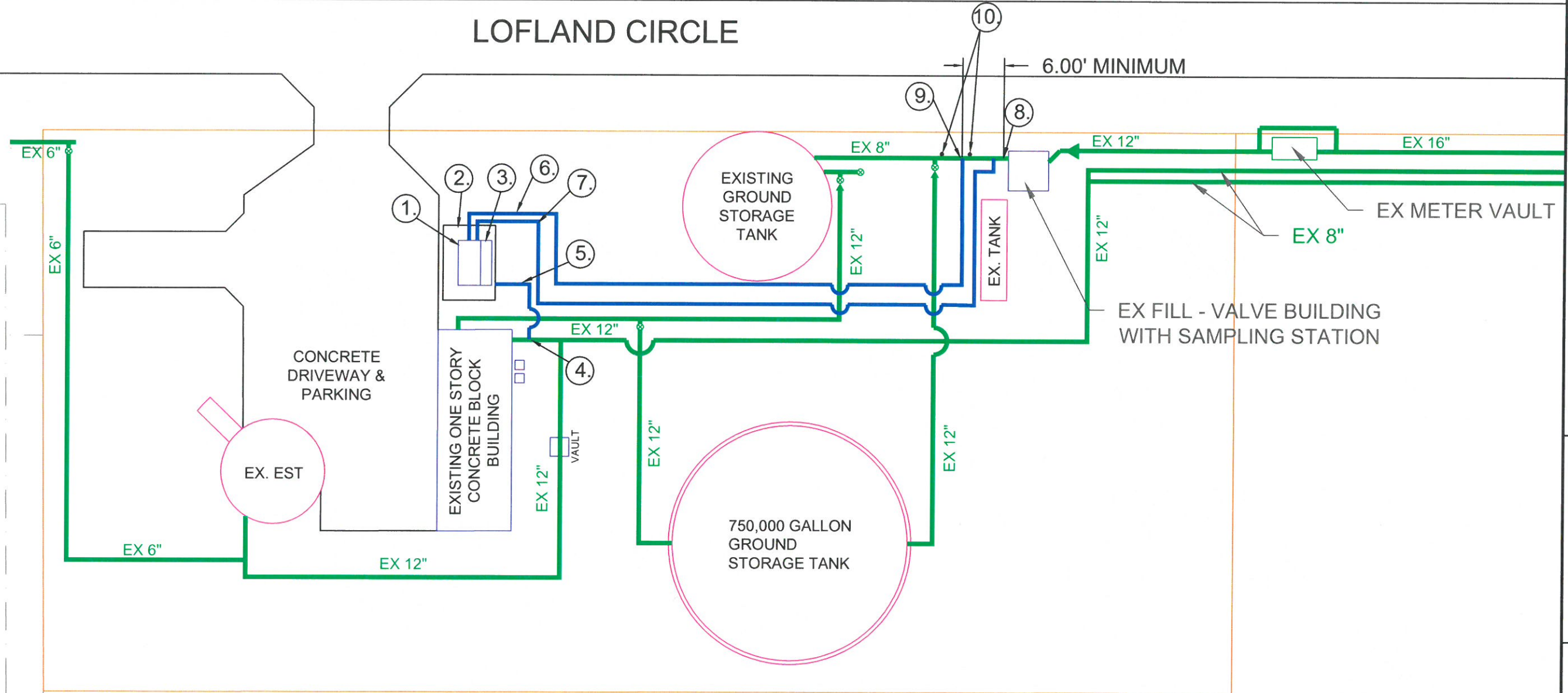


**LOFLAND
 PUMP STATION**

**PROPOSED DISINFECTION BUILDING
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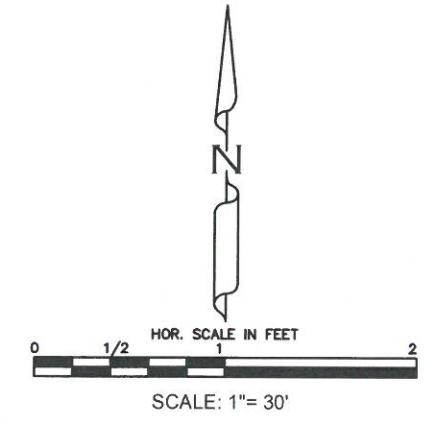
VICINITY MAP

LOFLAND CIRCLE



PROPOSAL LEGEND:

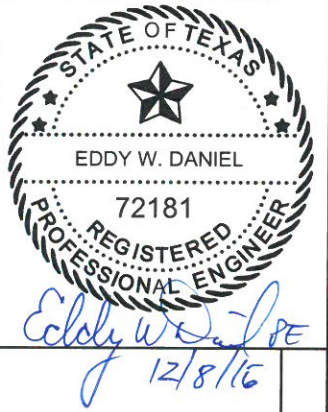
1. 12' x 6' FIBERGLASS CHLORINE AND LAS BUILDING
2. 14' x 20', 4" THICK CONCRETE SLAB
3. 3' x 12' AWNING EXTENDING FROM CHLORINE AND LAS BUILDING FOR 150LB CYLINDER STORAGE
4. 12" x 1" TAPPING SADDLE WITH 1" CORP STOP
5. 1" POLY SUCTION LINE FROM 12" DISCHARGE LINE
6. 1" POLY LAS INJECTION LINE
7. 1" POLY CL INJECTION LINE
8. 12" x 1" TAPPING SADDLE WITH 1" CORP STOP FOR LAS INJECTION LINE
9. 12" X 1" TAPPING SADDLE WITH 1" CORP STOP FOR CL INJECTION LINE
10. SAMPLING STATION AS SHOWN IN DETAIL ON SHEET 7. FIRST SAMPLING STATION SHALL BE PLACED 5' AFTER LAS INJECTION LINE. SECOND SAMPLING STATION SHALL BE PLACED 5' AFTER CL INJECTION LINE



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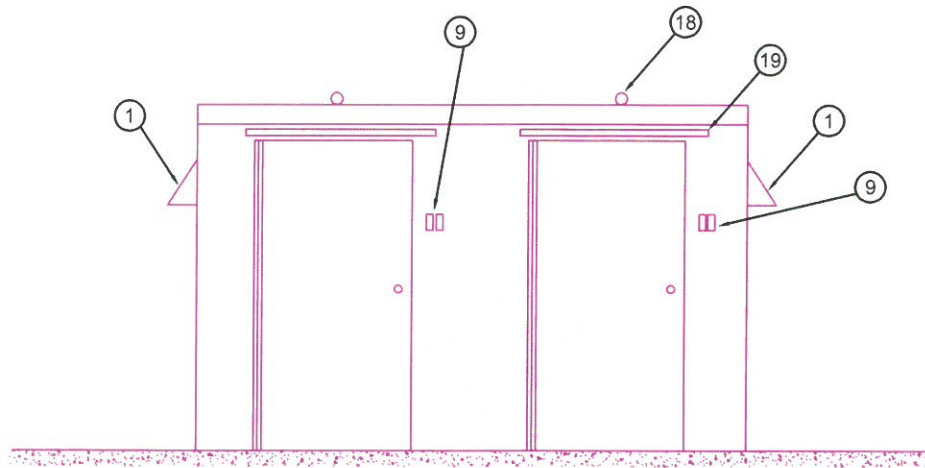
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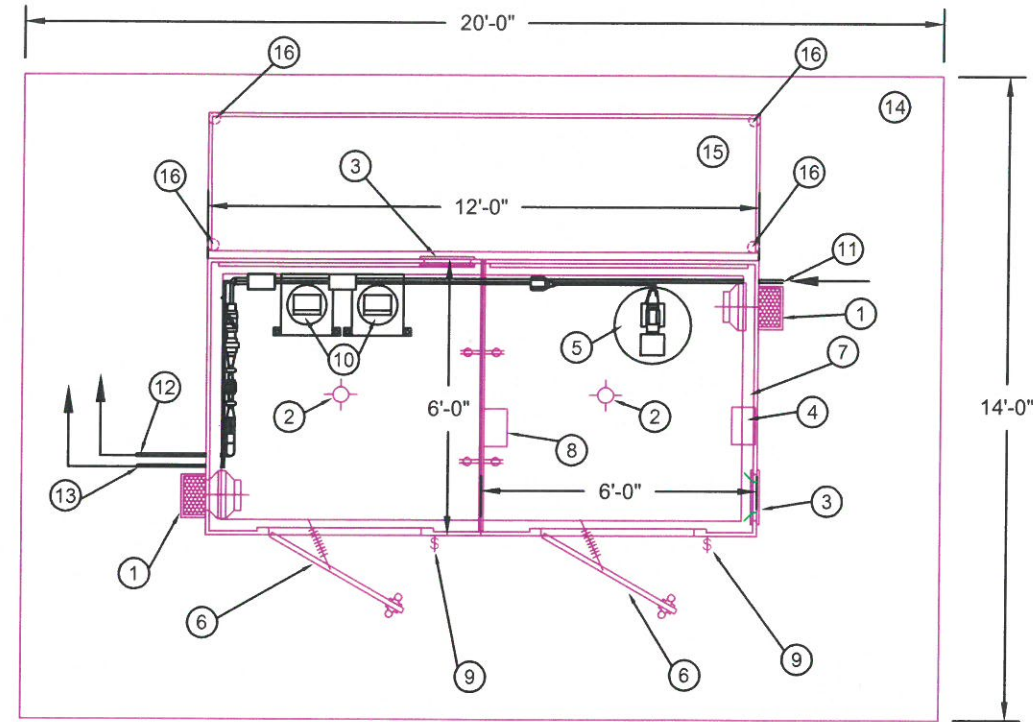
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SITE MAP



FRONT ELEVATION

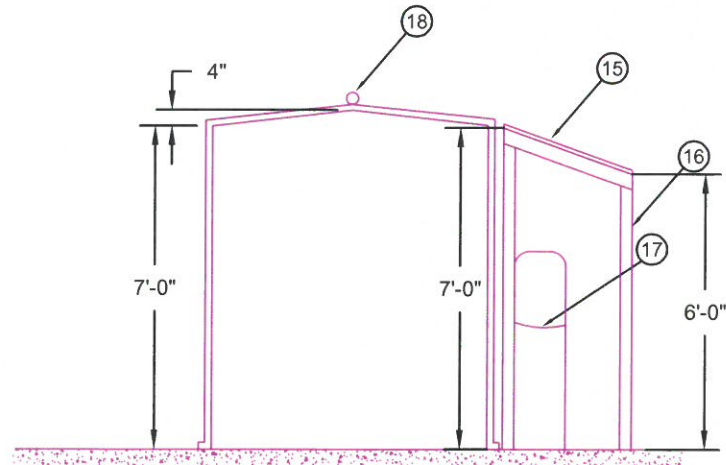
GENERAL NOTES:
 1. MATERIALS - 1/8" THK FIBERGLASS SKINS
 W/ 1" THK POLYISOCYANURATE FOAM (R=6.7)
 INSULATION CORE.
 2. EXTERIOR AND INTERIOR WHITE GEL COAT



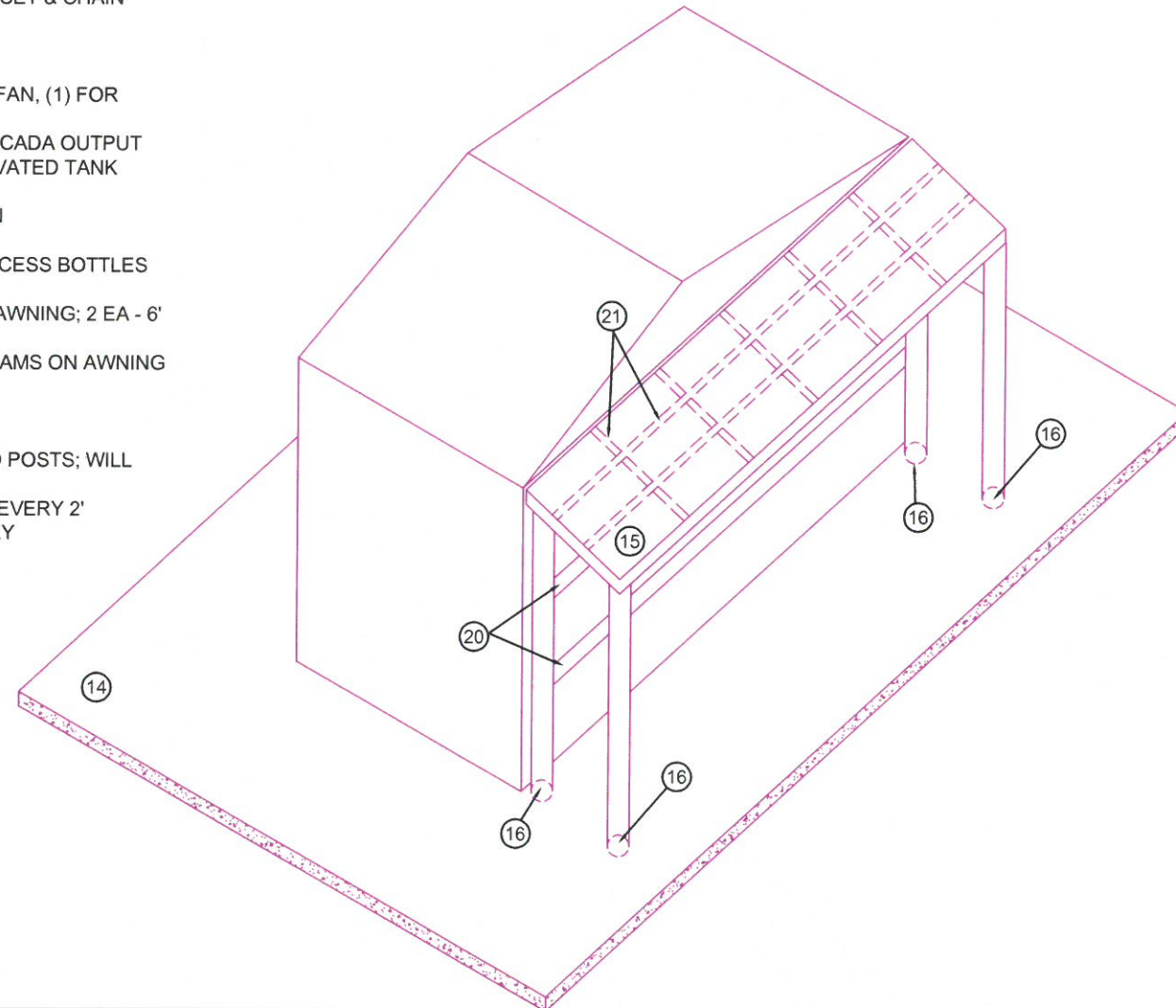
FLOOR PLAN

LEGEND:

1. 8" 623 CFM NON-METALLIC INTAKE FAN NEAR TOP WITH SCREENED HOOD
2. VAPOR TIGHT LAMP
3. 12"x12" ALUMINUM LOUVER NEAR BOTTOM
4. ELECTRICAL PANEL
5. LAS TANK
6. 40"x80" DOOR WITH SS HINGE STD. LOCKSET & CHAIN STOP
7. 3" INTERNAL MOUNTING FLANGE
8. SCBA
9. (2) WEATHERPROOF SWITCHES: (1) FOR FAN, (1) FOR LAMP
10. CHLORINE CYLINDER AND SCALE WITH SCADA OUTPUT
11. 1" SCH. 80 PVC SUCTION LINE FROM ELEVATED TANK
12. 1" POLY CL INJECTION LINE TO 12" TIE IN
13. 1" POLY LAS INJECTION LINE TO 12" TIE IN
14. 14' X 20', 4" THICK CONCRETE SLAB
15. COVERED AWNING FOR STORAGE OF EXCESS BOTTLES USING R-PANELS AND WELDED FRAME
16. 4 EA - 3" GALVANIZED FENCE POST FOR AWNING; 2 EA - 6' POSTS AND 2 EA - 7' POSTS
17. STEEL CHAIN CONNECTED TO CROSS BEAMS ON AWNING FOR BOTTLES
18. (2) CADMIUM PLATED LIFTING EYES
19. FIBERGLASS AWNING
20. SUPPORT BEAMS WELDED TO BACK TWO POSTS; WILL ATTACH STEEL CHAINS FOR BOTTLES
21. SUPPORT BEAMS FOR AWNING; PLACED EVERY 2' VERTICALLY AND EVERY 1' HORIZONTALLY

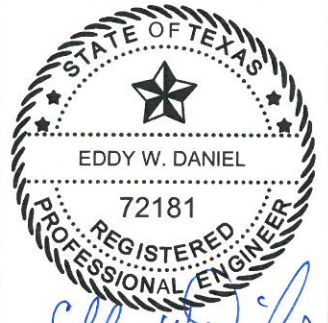


END ELEVATION



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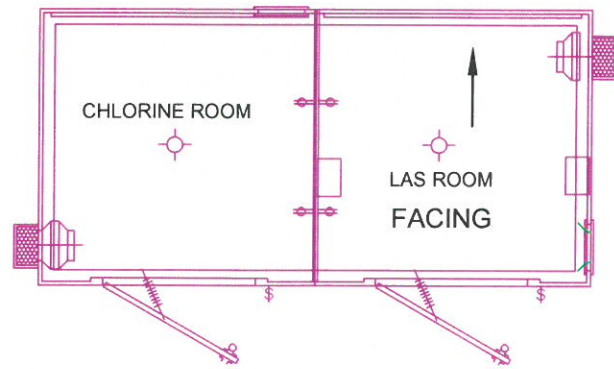


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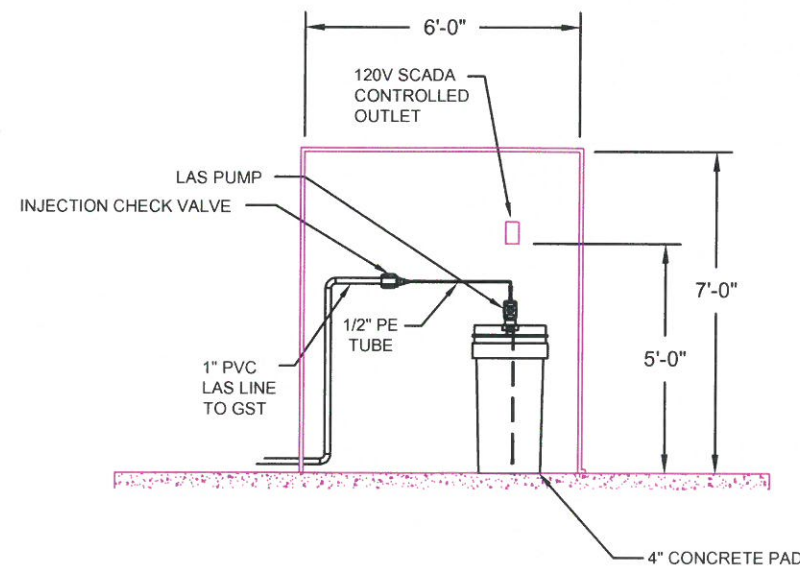
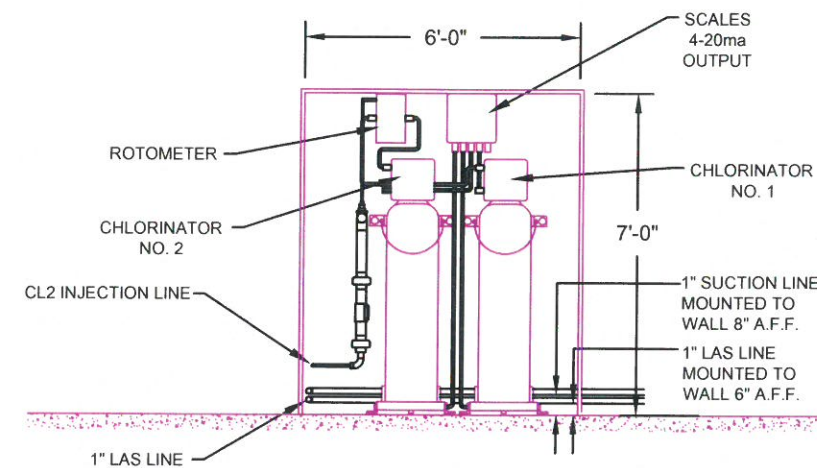
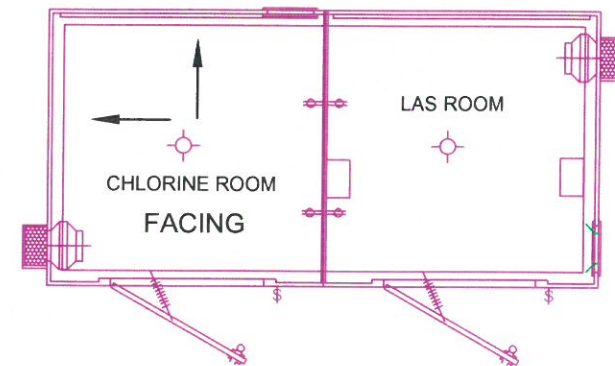
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BUILDING LAYOUT

LAS WALL ELEVATION SECTION

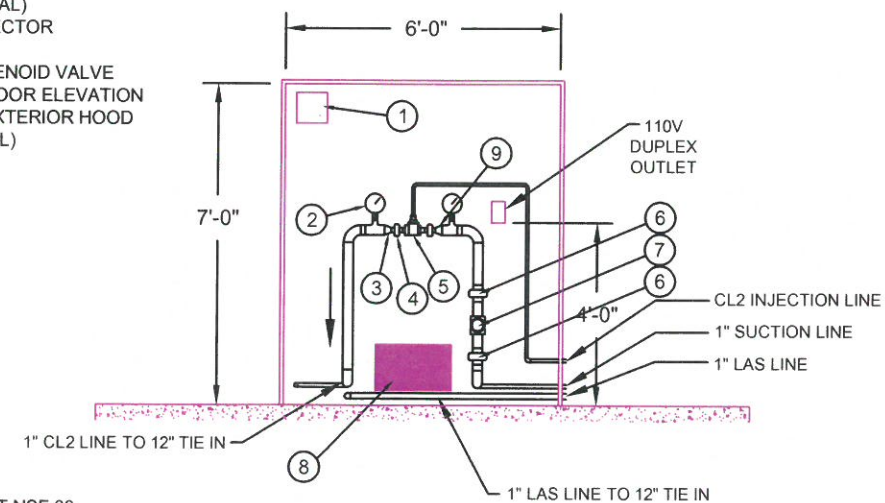


CHLORINE WALL ELEVATION SECTION



LEGEND :

1. 8" 623 CFM NON-METALLIC INTAKE FAN NEAR TOP WITH SCREENED HOOD
2. 2" TEE W/GAUGE: 0 TO 150 psi (2 TOTAL)
3. 1.5" TO 1" REDUCER (2 TOTAL)
4. 1" UNION COUPLER (2 TOTAL)
5. REGAL CHLORINATOR INJECTOR
6. 2" TRUE UNION (2 TOTAL)
7. SCADA CONTROLLED SOLENOID VALVE
8. 16"x16" VENT, 6" ABOVE FLOOR ELEVATION WITH INSECT SCREEN & EXTERIOR HOOD
9. 1" TO 2" REDUCER (2 TOTAL)



NOTES :

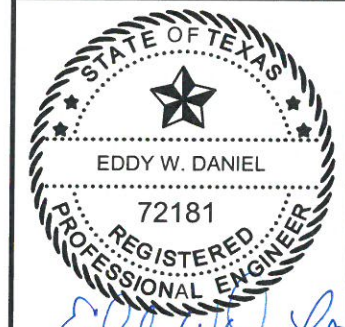
1. CHLORINE GAS SHALL MEET NSF 60 REQUIREMENTS

NOTES :

1. LAS SHALL MEET NSF 60 REQUIREMENTS
2. LAS TANK SHALL MEET NSF 61 REQUIREMENTS

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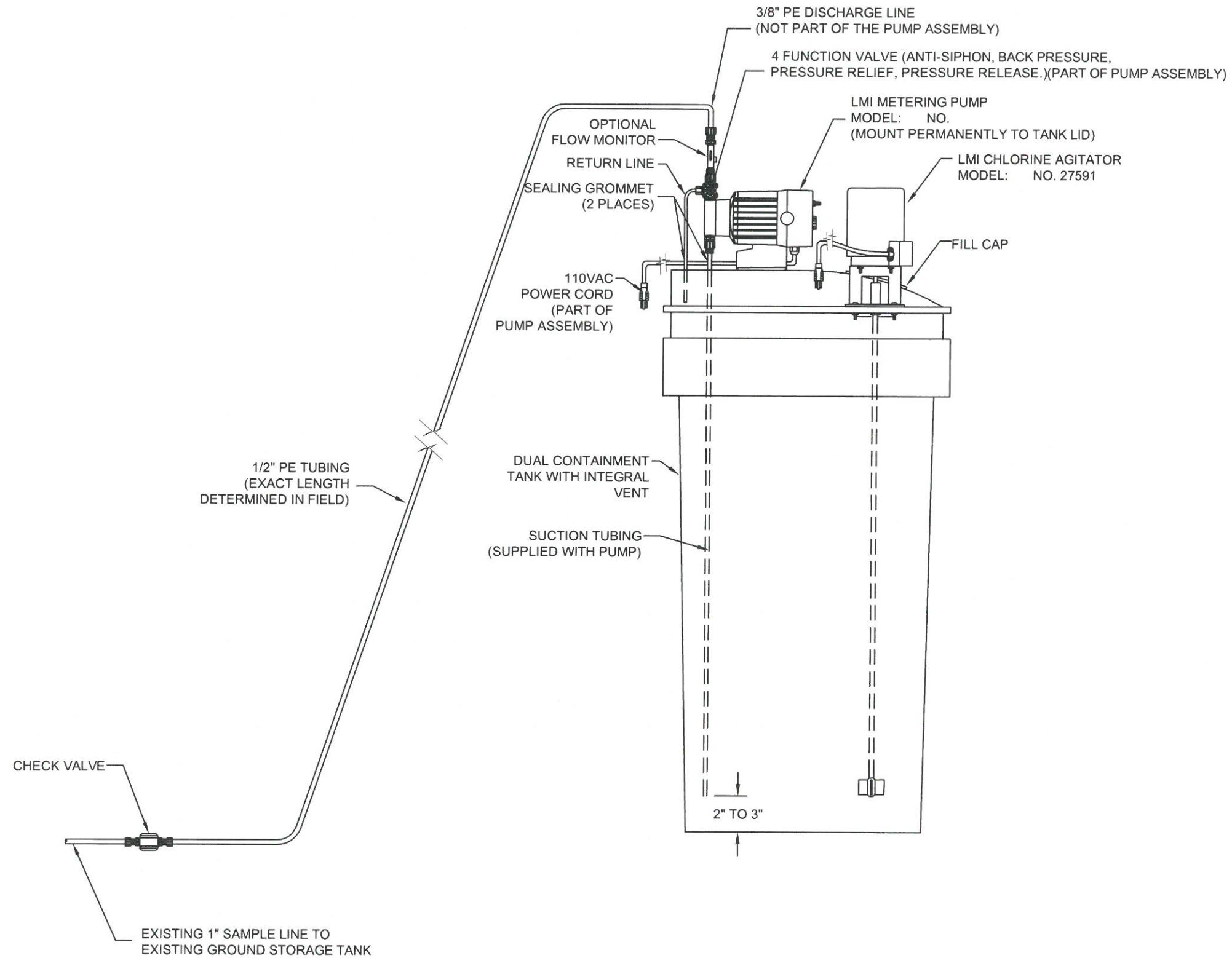
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ROOM LAYOUTS



**LIQUID CHEMICAL & HYPOCHLORINATION
FEED ASSEMBLY**
NOT TO SCALE

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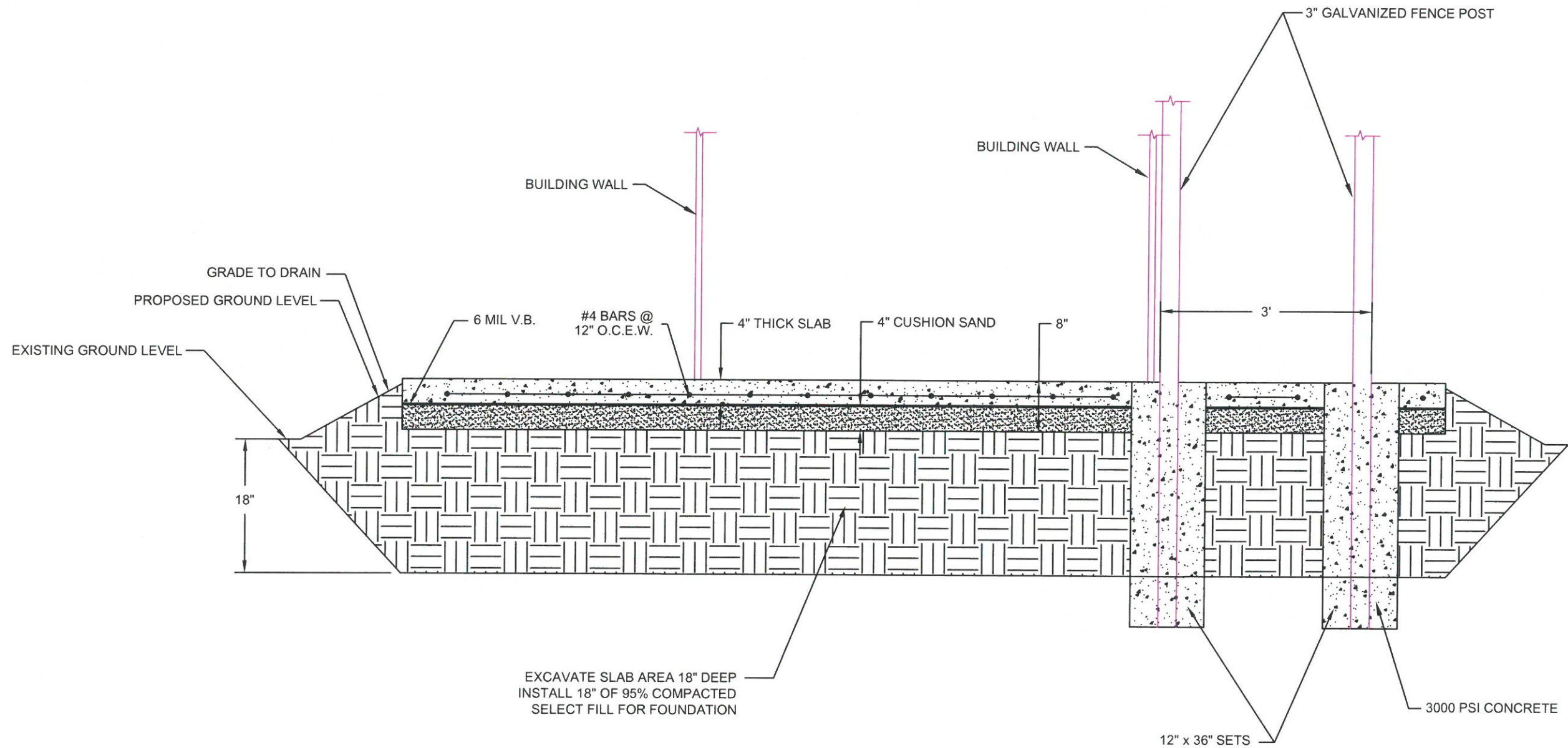
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LAS DETAILS

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BUILDING NOTES:

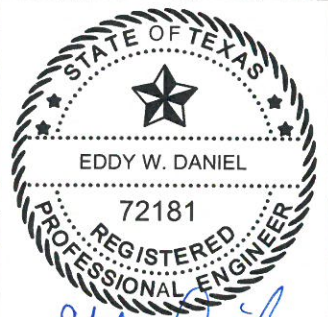
1. BUILDING FOUNDATION SHALL HAVE A MINIMUM OF 18" 95% COMPACTED SELECT FILL.
2. SLOPE CONCRETE AT ENTRY WAY, TO PREVENT WATER INTRUSION.



BUILDING FOUNDATION
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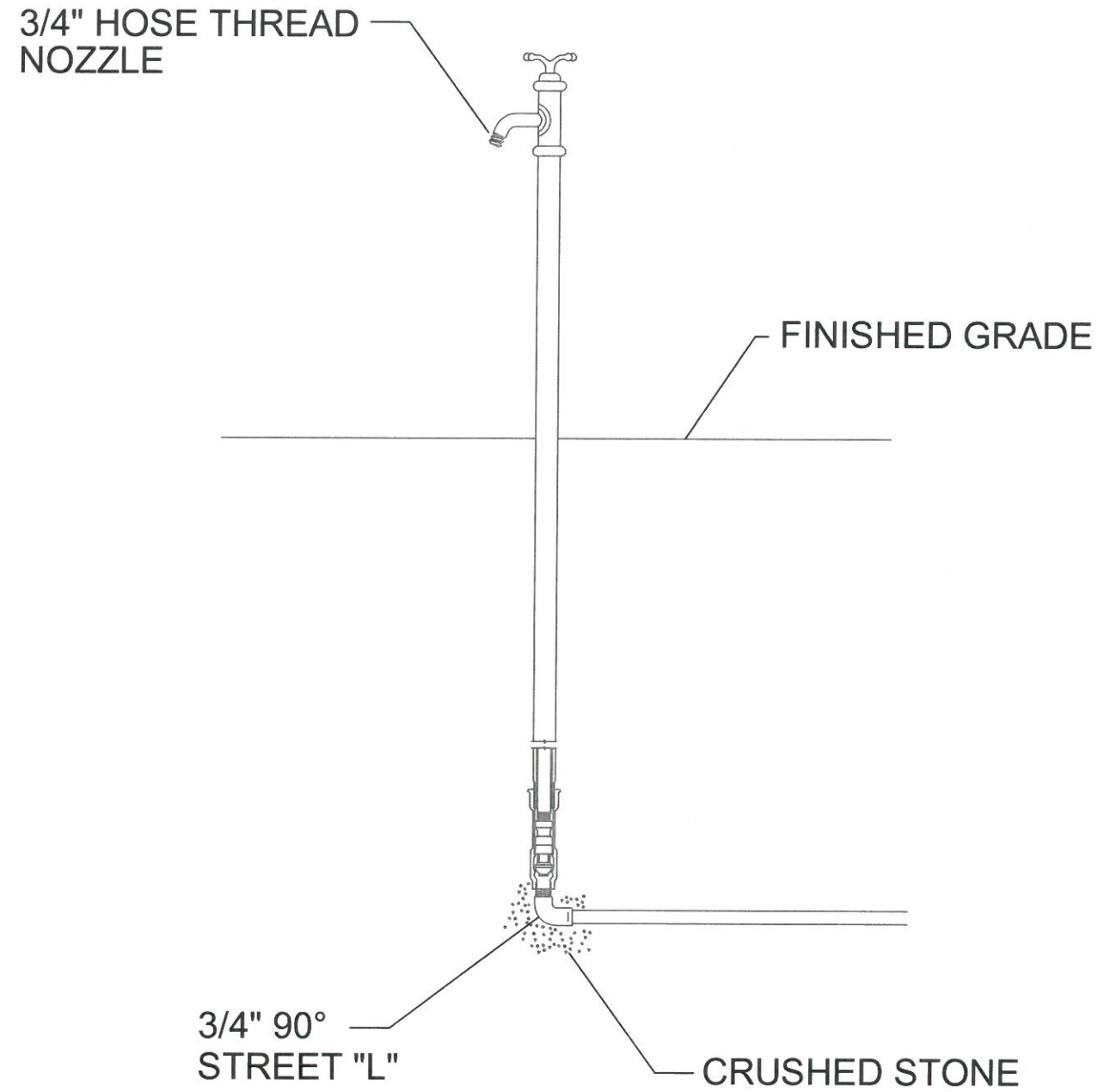
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CONCRETE PAD DETAILS

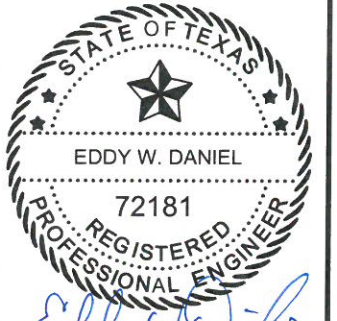


YARD HYDRANTS SHALL BE SELF-DRAINING, NON-FREEZING, COMPRESSION TYPE. INLET CONNECTION SHALL BE 3/4" IP. OUTLET SHALL BE 3/4" GHT.

SAMPLING STATION DETAIL
NOT TO SCALE

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SAMPLING STATION DETAILS