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It is the responsibility of the Professional Engineer to ensure that the design is adequate and meets the requirements of the project.

GENERAL NOTES

- 1. In accordance with A.A.C. R18-5-504, all construction materials will be lead free, excluding leaded joints for cast iron pipes.
- 2. All water treatment chemicals and water components in contact with potable water will conform to National Sanitation Foundation 60 and 61 respectively. All plastic pipes and fittings will have the National Sanitation Foundation seal in accordance with Engineering Bulletin No. 10.
- 3. The system is designed using good engineering practice in accordance to Engineering Bulletin No. 10, as stated in A.A.C R18-5-502.
- 4. The minimum pipe cover is 3 ft given by the Engineering Bulletin No. 10.
- 5. All pipes, valves and other appurtenances will conform to the current AWWA standards in accordance with Engineering Bulletin No. 10.
- 6. All connections have national standard threads in accordance with MAG 360-1.
- 7. All new waterlines shall be pressure tested in accordance with current AWWA C605 for PVC and AWWA C600 for DIP.
- 8. All new water system components or equipment will be disinfected and flushed in accordance to Engineering Bulletin No. 8 Disinfection of Water Systems or AWWA C651-14.
- 9. After disinfection, all water system components or equipment will be bacteriologically tested by the Bacti test through an Arizona Department of Health Services certified laboratory.
- 10. All paint systems and cathodic protection equipment used to protect against corrosion conform to current AWWA D102 standards.

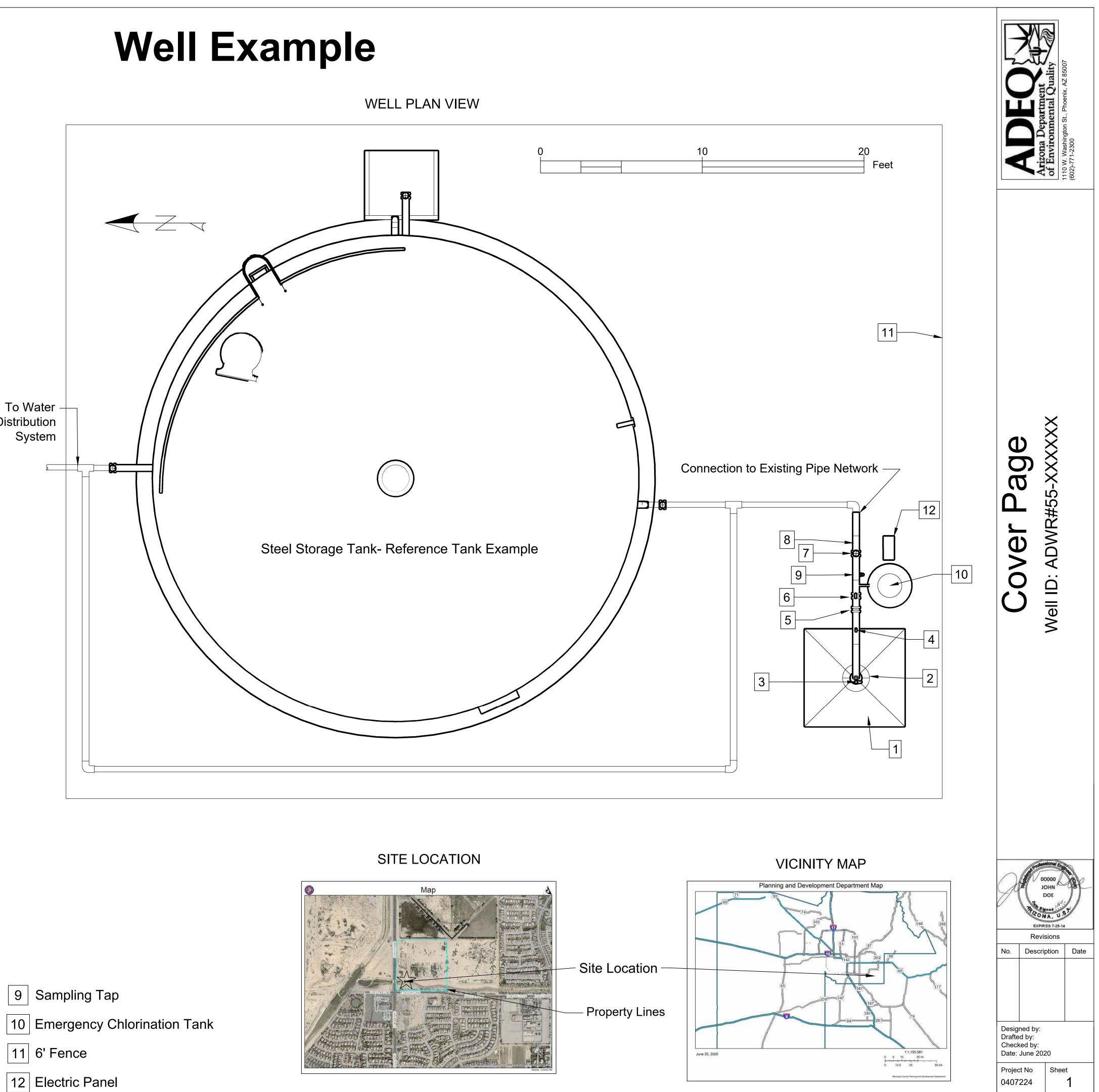
BASIS OF BEARING

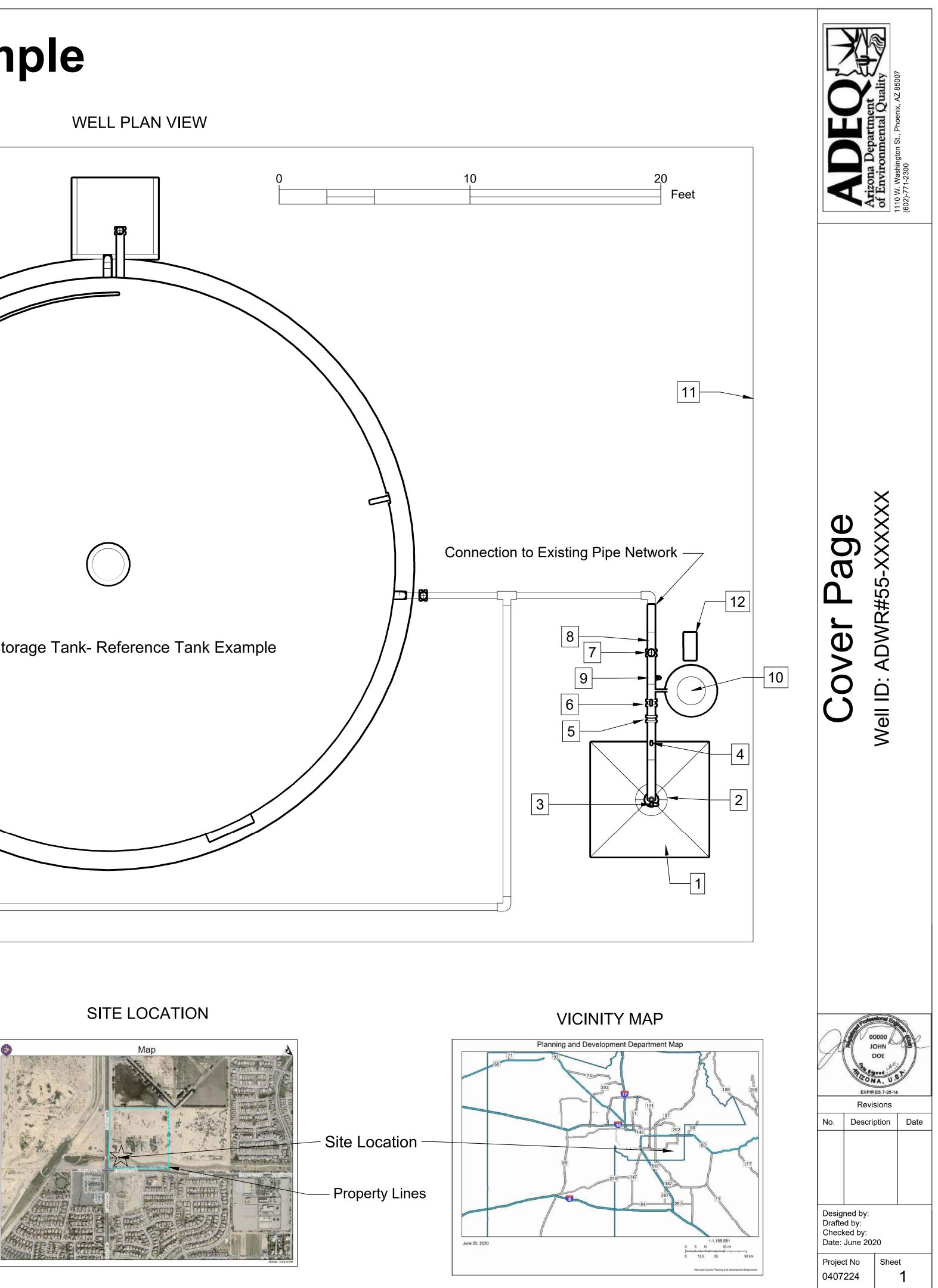
The site is located within Gilbert, AZ at the respective coordinates: Lat 33.24772615 N, Long 111.84106692 W. The township is 1S 6E, Section 14 SWSW. The site is located in the X-shaded flood zone and not within the 100 year flood zone.

MATERIALS AND QUANTITY

Materials		Quantity
8" Steel Well Casting		385'
4" Shut-off Valve		1
4" Positive Acting Check Valve		1
Air Release Valve w/ Pressure Gauge		1
4" 90° Bend Joint		1
Flow Meter		1
Pipe Support		3
Sampling Tap		1
Air vent w/ 16-mesh non-corrodible screen, 1.5" diameter		1
6'X6' Concrete Slab w/ minimum 6" thickness and $\frac{1}{2}$ " per 1' slope		1
4" PVC C900 Piping		395'
6' Fence w/ Locked Gate		192'
Sanitary Well Seal, 8" diameter- Steel Plate w/ Welded Connections		1
Cement Grout (per square ft)		10'
Submersible Pump		1
Emergency Chlorination Tank- 150 Gal		1
EGEND		
1 6'X6' Concrete Slab	5 4" Check Valve	
2 Sanitary Well Seal	6 Flow Meter	
3 Air Vent w/ 16-mesh screen	7 4" Shut-off Valve	
4 Air Release Valve w/ Pressure Gauge	8 4" Pipe	

Distribution





GENERAL NOTES

- a sewer main. Wells can be at least 20 ft away from the sewer main if pressure tested without excessive leakage to (a) 50 psi to be used for gravity sewers; or (b) 150 psi to be used for force mains. Additionally, a well will be constructed at least 100 ft from (a) a septic tank or subsurface disposal; (b) (c) a underground storage; (d) hazardous waste facilities regulated under the Arizona Hazardous Waste Management Act.

