



**RESIDENTIAL
WATER WELL**

**Handout
603**

REV 07/19

ADOPTED CODES (with City Amendments per Ordinance 2019-12):

**2018 International Building Code (IBC)
2018 International Residential Code (IRC)
2018 International Plumbing Code (IPC)
2018 International Fuel & Gas Code (IFGC)
2018 International Mechanical Code (IMC)
2018 International Energy Conservation Code (IECC)
2018 International Property Maintenance Code (IPMC)
2017 National Electric Code (NEC)
2010 Americans with Disabilities Act Accessible Guidelines (ADAAG)
2018 International Fire Code (IFC)**

Current Peoria Zoning Ordinances

**Development & Engineering Department
Building Development**

9875 N. 85th Avenue
Peoria, Arizona 85345
623-773-7225 (FAX: 623-773-7245)
building.applications@peoriaaz.gov

www.peoriaaz.gov/development

PURPOSE:

To provide electrical power for the operation of a residential water well.

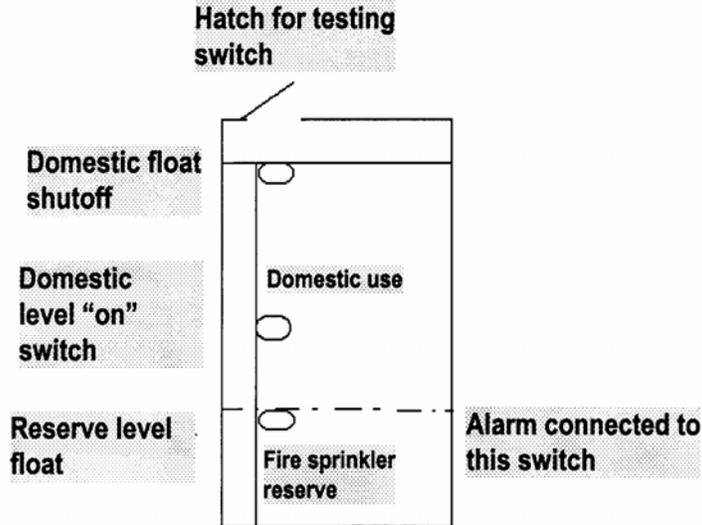
APPLICATION:

The applicant shall submit a completed permit application, signed and dated, and provide the following documents:

1. Provide a site plan specifying the location of the water well and the electrical service entrance section powering the well, the location of the residence, the water service line from the well to the residence, distance from SES to control panel and well, and location, size and type of tank.
2. Provide 2 copies of the manufacturer's control wiring and well pump and motor installation guidelines.
3. Provide 2 copies of single-line electrical plan showing all conduit (type & size), feeders (type & size), equipment grounding and grounding electrodes.
4. Provide 2 copies of panel schedules with AIC ratings.
5. Provide 2 copies of load calculations including ground fault calculations and short circuit analysis of series-rated equipment installed.
6. Provide an approval letter from the State of Arizona Department of Environmental Quality allowing the well site to be installed. Provide copy of well driller report showing well depth and provide submersible pump depth.
7. The application shall be assigned an address and processed for a permit.
8. If the customer is on an existing well, they must provide a copy of an executed Shared Well Agreement.
9. How many dwellings is the well going to serve? A minimum of 300 gallons reserve to be stored in the tank.

REQUIREMENTS FOR WELL WATER SUPPLIES

- ()** 1. A separate permit is required for the electrical pedestal at the well site.
- ()** 2. Water storage for wells - A minimum of 300 gallons of domestic water is required to be stored for the fire sprinkler system.
- ()** 3. There shall be a low level warning alarm at the 300 gallon level, or per requirements of sprinkler plans
 - a. The low level alarm must be audible inside the house.
 - b. with a minimum of - (Horn, minimum 85 dBA @ 10 ft. and a Strobe, minimum 100 candela).
 - c. This alarm must be testable before the system will be accepted.
(DO NOT COVER UNDERGROUND TANK BEFORE TEST)
- ()** 4. A pump shall produce a minimum PSI per prints. The PSI must be maintained for a minimum of ten (10) minutes.



The test switch for the low water level warning in the storage tank must be accessible for testing before the final clearance will be issued.

ELECTRICAL FOR RESIDENTIAL WATER WELL

**Two (2) copies of the following documents must be submitted
With a completed Building Permit Application as follows:**

1. Site plan specifying:	<ul style="list-style-type: none">a. location of water wellb. electric service entrance section powering the wellc. location of residenced. water service line from well to residencee. distance from SES to control panel and wellf. location, size and type of tank
2. Pump specifying:	<ul style="list-style-type: none">a. manufacturer's control wiringb. well pump installation guidelinesc. well motor installation guidelines
3. Electrical specifying:	<ul style="list-style-type: none">a. Single-line electrical plan showing conduit (size & type), feeders (size & type), equipment grounding and grounding electrodes
4. Panel specifying:	<ul style="list-style-type: none">a. Panel schedules with AIC ratings
5. Calculations specifying:	<ul style="list-style-type: none">a. Load calculations including ground fault calculationsb. Short circuit analysis of series-rated equipment installed
6. State of Arizona Department Environmental Quality specifying:	<ul style="list-style-type: none">a. Approval letter allowing well site to be installedb. Well driller report showing well depth and submersible pump depth
7. Existing well specifying:	<ul style="list-style-type: none">a. Executed Shared Well Agreementb. How many residences is well going to serve? Minimum of 300 gallon reserve required to be stored in tankc. Note on plans must comply with current Grounding and Bonding requirements.

WELL SUBMERSIBLE MOTOR & PUMP INFORMATION SHEET

MOTOR:

Manufacturer _____

Model # _____

HP _____ FLA _____

Voltage _____ Phase _____

PUMP:

Manufacturer _____

Model # _____

Curve # _____ Rating: _____

GPM @ _____ ft.

CONTROL PANEL:

Manufacturer _____

Model # _____

Short Circuit Device: Circuit Breaker Rating _____

Fuses Rating _____

WIRE SIZES & DISTANCE: Include Derating for Distance

Meter to Subpanel _____ ft. Wire Size _____

Type of Wire _____

or

Meter to Control Box _____ ft. Wire Size _____

Type of Wire _____

Subpanel to Control Box _____ ft. Wire Size _____

Type of Wire _____

Control Box to Motor _____ ft. Wire Size _____

Type of Wire _____

WELL WATER INFORMATION:

Desired GPM _____ Standing Water Level _____ ft.

Pumping Water Level _____ ft.

Pump Setting Level _____ ft.

Elevation Difference Between Top Of Well & Holding Tank _____ ft.

SHARED WELL AGREEMENT

WATER SERVICE WITHIN THE CITY OF PEORIA WATER SERVICE AREA WATER SERVICE CONSTRUCTION AGREEMENT

An agreement which is effective as of _____ hereby entered into between the owners of the following described parcels of land:

(FOR OWNERS AND LEGAL DESCRIPTIONS SEE ATTACHED EXHIBITS)

These parcels are located within the City of Peoria's Water Service area and are eligible to be served by the City of Peoria. The subject parcels are located within the City of Peoria.

In lieu of providing for the extension of the water infrastructure of the City of Peoria, the owners of the above referenced parcels of land have elected to provide water service from a private well.

The owners of the above referenced parcel of land hereby acknowledge that they have read the City of Peoria's Private Exempt Well information sheet.

The owners of the above referenced parcels of land hereby agree that in the event of failure of the private well they will be responsible for all associated costs for the extension of the water infrastructure of the City of Peoria to serve the subject parcels of land. "Failure" of a private well shall be defined to include the following:

1. The water produced by the well is of a quality, which is unacceptable to the owner (the City recommends water quality testing, although this is not required by the State of Arizona for exempt wells).
2. The well production does not satisfy the owner's requirements (this is the Owner's determination).
3. The well runs dry (the owner makes the determination to connect to the City of Peoria's water system rather than redrilling the well).
4. The owner simply makes the determination to connect to the City of Peoria's water system.

The extension of the water infrastructure shall conform to the City of Peoria minimum standards.

This agreement shall be binding on the owners, heirs, executors and assigns; further the owner's consent to the recordation of this Agreement in the office of the Maricopa County Recorder.

City Not Obligated. The City of Peoria is not responsible for the above referenced facilities and does not certify the adequacy of the private water service.

Indemnity. The owners agree to indemnify and hold the City of Peoria harmless for, from and against any claims, actions, suits, proceedings, damages, and liabilities, arising out of (a) any agreements or disputes between the owners of the above referenced parcels of the land and/or City of Peoria, (b) the construction of the facilities, and (c) the availability or adequacy of water service from the private well or from the City of Peoria.

Date

Owner(s) Name –please print

Owner(s) Signature

Address

Date

Owner(s) Name-please print

Owner(s)

Signature

Address

CITY OF PEORIA

Date

By: Utilities Director

Approved as to Form:

By: City Attorney

ATTEST:

By: City Clerk