



2018 POOL/SPA PLAN REVIEW CHECKLIST / SUBMITTAL CHECKLIST

The following items must be shown on construction documents before plan review approval. This may not be a comprehensive list depending on the scope of your project and additional corrections may be required before approval.

SCOPE OF REVIEW:

The scope of this plan review covers architectural, structural, energy conservation, fire, and electrical. All Code references are to the 2018 International Code Council suite of codes, 2017 NEC, and Town of Sahuarita local amendments.

NOTE: With the first inspection, there shall be a Pre-Construction meeting on the job site with the property owner, the pool contractor, and a Town of Sahuarita Building Inspector. Call Ted Rodriguez, Chief Building Inspector, at 520-275-3354 to schedule.

A 3rd party verification report for the backflow will be required at final inspection, completed by an approved Town of Sahuarita company and individual. IRC P2902.3.

See: https://www.tucsonaz.gov/files/water/docs/Backflow_Tester_List_2020_March.pdf

GENERAL REQUIREMENTS:

- Details, data, and information provided to the Building Safety Department shall not be included by reference or attachment only. The data must be delineated on one drawing by notes or graphics as part of the original tracings or masters. R106.1.1
Planning & Zoning approval. IRC Section R106.2
Provide the approved Town of Sahuarita engineering model plan (with model permit number and approved stamps). IRC R106.1.
1. On Model Pool Plans indicate / highlight all the details on the engineered plan that are going to be used on the project including Reinforcement and Gunite Thickness Schedule. IRC Section R106.1.1.
2. Model Pool Plans require a letter of authorization from the Model Pool Plan permit holder including the owner's name and address. IRC Section R106.1.
3. The approved pool Model plan expiration date is current. IRC Section R106.1.

INDICATE AND NOTE ON THE PLAN THE FOLLOWING INFORMATION:

- The project address and owner on the plans. IRC Section R106.1.1.
That all work shall comply with the current adopted codes. IRC Section R106.1.1.
On the site plan showing the location of the pool/spa with all the setbacks from all sides. IRC Section R106.2
The surface area of the pool and spa. IRC Section R106.1.1.
The Pool Depths (cross-sectional). IRC R106.1.1.
Custom pools and Spa's plans shall have structural calculations sealed by an AZ Registrant. IRC Section R106.1.

ELECTRICAL REQUIREMENTS:

➤ **INDICATE AND NOTE ON THE PLAN THE FOLLOWING INFORMATION:**

- The size and type of feeder wire (THWN) or equivalent. **TABLE E3705.1**
- The conduit size & schedule type Schedule 40 below ground and schedule 80 above ground. IRC Section E3802.3.2. NEC Reference Article 352.1.
- The minimum electrical burial cover requirements. Indicate item 2 below on plans per IRC Section Table E3803.1
 1. The interior of enclosures or raceways installed underground shall be considered to be a wet location. Insulated conductors and cables installed in such enclosures or raceways in underground installations shall be listed for use in wet locations. IRC Section E3803.10.
 2. Nonmetallic raceways listed for direct burial shall be 18 inches deep. IRC Section E3803.1
- The panel service size and rating. IRC Section E3602, E3606.4, and E3701.2, E3706.1.
 1. Indicate and note on the plan service load for the existing service and subpanel. IRC Section E3602.2.
- Overcurrent protection is required. Branch-circuit conductors and equipment shall be protected by overcurrent protective devices having a rating or setting not exceeding the allowable ampacity and be GFCI protected. IRC Section E3705.1. E4203.1.4.
- The location of the convenience receptacle on the plans no closer than 6' and no farther than 20' measured from the inside wall of the pool/spa. IRC Section E4203.1.3.
- Where installed in wet locations, 15 and 20 amp, 125 – and 250-volt receptacles shall have an enclosure that is weatherproof with an outlet box hood listed and identified as “extra-duty.” These receptacles shall also be listed and identified as the weather-resistant type (WR) and tamper resistant.(TR). IRC Section E4002.9.
- Indicate that all new receptacles require WR and TR with a plug in use cover. IRC Sections E4002.10 and E4002.14.
- The equipotential bonding on the plans. IRC Section E4204.1 E4204.2.
- All metal within 5' of the pool/spa is required to be bonded. IRC Section E4204.2 (7).
- ALL RECEPTACLES LOCATED WITHIN 20 FEET OF WATERS EDGE OF POOLS AND OUTDOOR SPAS AND HOT TUBS SHALL BE PROTECTED BY GFCI WR/TR IRC SECTION E4002.9.
- NONMETALLIC RACEWAYS LISTED FOR DIRECT BURIAL SHALL BE 18 INCHES DEEP IRC SECTION E3803.1.

PLUMBING REQUIREMENTS:

➤ **INDICATE AND NOTE ON THE PLAN THE FOLLOWING INFORMATION:**

- The type and size and burial depth of water pipe. ISPSC Section 302. IRC Section P2603.5., P2604.

SAFETY REQUIREMENTS:

➤ **INDICATE AND NOTE ON THE PLAN THE FOLLOWING INFORMATION:**

- The required type and height of barrier walls on the plan are a minimum height of 60". 2018 ISPSC amendment Section 305.2 (1).

- Access gates shall have self-closing, self-latching devices installed at a height of 54 inches and be located on the pool side of the gate. The top of the gate shall be a minimum of 60" high from grade and shall have a maximum 2" clearance from the bottom of the gate to grade. The gate shall open outward away from the pool area. ISPSC Section 305.3.3.
- Doors with direct access to the pool through that wall shall be equipped with an alarm listed and labeled as a water hazard entrance alarm in accordance with UL 2017. The operable parts of the alarm deactivation switches shall be located at least 54" above the finish floor. ISPCP 305.4.1.
- Pet doors with direct access to the pool will not be permitted. IRC Section 106.1.1 and letter dated March 1, 2021
- Fiberglass pools are required to have all barriers in place before starting construction. IRC Section 106.1.1

POOL HEATERS:

➤ **INDICATE AND NOTE ON THE PLAN THE FOLLOWING INFORMATION:**

- Whether it is gas or electric and the location of the meter.
 1. For gas indicate the Btu's, the size/type of gas line, the burial depth of the gas line, and if a tracer wire is required.
 2. For electric indicate the amps, the circuit number at the main panel, and/or is it a new breaker, indicate the location of the subpanel and size, size/type of wiring installed, and the type of conduit is being used. IRC Sections G2413.3, Table G2413.4 (1) through (21), G2415.11, G2415.12, G2415.17, G2417.1.3, G2420.5, G2422.1.2.1, G2415.22.1.2.3, E3705, Table E3705.1, Table E3705.2, E3802.3.2, E3802.7, E3803.3, E3803.10, Table E3803.1, E3905.11, E4002.8, E4002.9, E4002.10 and E4002.14.
- Outdoor heated pools and outdoor permanent spas shall be provided with a vapor-retardant cover or other approved vapor-retardant means in accordance with ISPSC Section 104.11. ISPSC Section 303.1.3. (HAVE COVER AVAILABLE ON SITE AT FINAL INSPECTION)

OTHER REQUIREMENTS FOR SPA's:

- In outdoor pool, outdoor spa and outdoor hot tub areas, luminaires, lighting outlets, and ceiling-suspended paddle fans shall not be installed over the pool or over the area extending 5' (1524mm) horizontally from the inside walls of a pool except where no part of the luminaire or ceiling-suspended paddle fan is less than 12' (3658) above the maximum water level. IRC Section E4203.4.1.
- Spas or hot tubs with a lockable safety cover that comply with ASTM F 1346 shall be exempt from the provisions of the ISPSC Sections 305.2 through 305.7. ISPSC 305.1.
- Existing lighting outlets and luminaires that are located within 5' horizontally from the inside walls of pools and outdoor spas and hot tubs shall be permitted to be located not less than 5' vertically above the maximum water level, provided that such luminaires and outlets are rigidly attached to the existing structure and are protected by a ground-fault circuit-interrupter. IRC Section E4203.4.4.
- Indicate that the spa is no closer than 5' measured horizontally to any window or door glass. IRC Section R308.4.5.
- For above-ground spas, indicate that the disconnecting means is a minimum of 5' measured horizontally from the water edge of the outdoor spa. Indicate the size of the breaker to be used. IRC Section 106.1.1. Section E4203.3.

SAMPLE SITE PLAN

"WITH THE FIRST INSPECTION THERE SHALL BE A PRE-CONSTRUCTION MEETING ON THE JOB SITE WITH THE PROPERTY OWNER, THE POOL CONTRACTOR, AND A TOWN OF SAHUARITA BUILDING INSPECTOR. CALL TED RODRIQUEZ, CHIEF BUILDING INSPECTOR AT (520) 275-3354 TO SCHEDULE.

ALL WORK SHALL COMPLY WITH THE 2018 ICC SUITE OF CODES AND THE 2017 NEC.

OUTDOOR HEATED POOLS AND OUTDOOR PERMANENT SPAS SHALL BE PROVIDED WITH A VAPOR-RETARDANT COVER OR OTHER APPROVED VAPOR-RETARDANT MEANS IN ACCORDANCE WITH ISPSC SECTION 104.11. ISPSC 303.1.3. (HAVE COVER ON SITE AT FINAL INSPECTION)

"A 3RD PARTY VERIFICATION REPORT FOR THE BACKFLOW WILL BE REQUIRED AT FINAL INSPECTION, COMPLETED BY AN APPROVED TOWN OF SAHUARITA COMPANY AND INDIVIDUAL. IRC SECTION P2902.3.

WHERE INSTALLED IN WET LOCATIONS, 15 AND 20 AMP, 125 - AND 250-VOLT RECEPTACLES SHALL HAVE AN ENCLOSURE THAT IS WEATHERPROOF WITH AN OUTLET BOX HOOD LISTED AND IDENTIFIED AS "EXTRA-DUTY" THESE RECEPTACLES SHALL ALSO BE LISTED AND IDENTIFIED AS THE WEATHER-RESISTANT TYPE (WR) AND TAMPER RESISTANT (TR). IRC SECTION E4002.9.

OVERCURRENT PROTECTION REQUIRED. BRANCH-CIRCUIT CONDUCTORS AND EQUIPMENT SHALL BE PROTECTED BY OVERCURRENT PROTECTIVE DEVICES HAVING A RATING OR SETTING NOT EXCEEDING THE ALLOWABLE AMPACITY AND BE GFCI PROTECTED. IRC SECTION E3705.1. E4203.1.4

ALL RECEPTACLES LOCATED WITHIN 20 FEET OF WATERS EDGE OF POOLS AND OUTDOOR SPAS AND HOT TUBS SHALL BE PROTECTED BY GFCI. IRC SECTION E4203.1.4.

INDICATE ON PLAN THE CONVENIENCE RECEPTACLE NO CLOSER THAN 6' AND NO FARTHER THAN 20' FROM WATERS EDGE OF POOL IRC SECTION E4203.1.3.

NONMETALLIC RACEWAYS LISTED FOR DIRECT BURIAL SHALL BE 18 INCHES DEEP IRC SECTION E3803.1.

ALL METAL WITHIN 5' OF THE POOL/SPA IS REQUIRED TO BE BONDED. IRC SECTION E4204.2 (7).

INDICATE ON PLANS THE EQUIPOTENTIAL BONDING. IRC SECTION E4204.1.1. E4204.2.

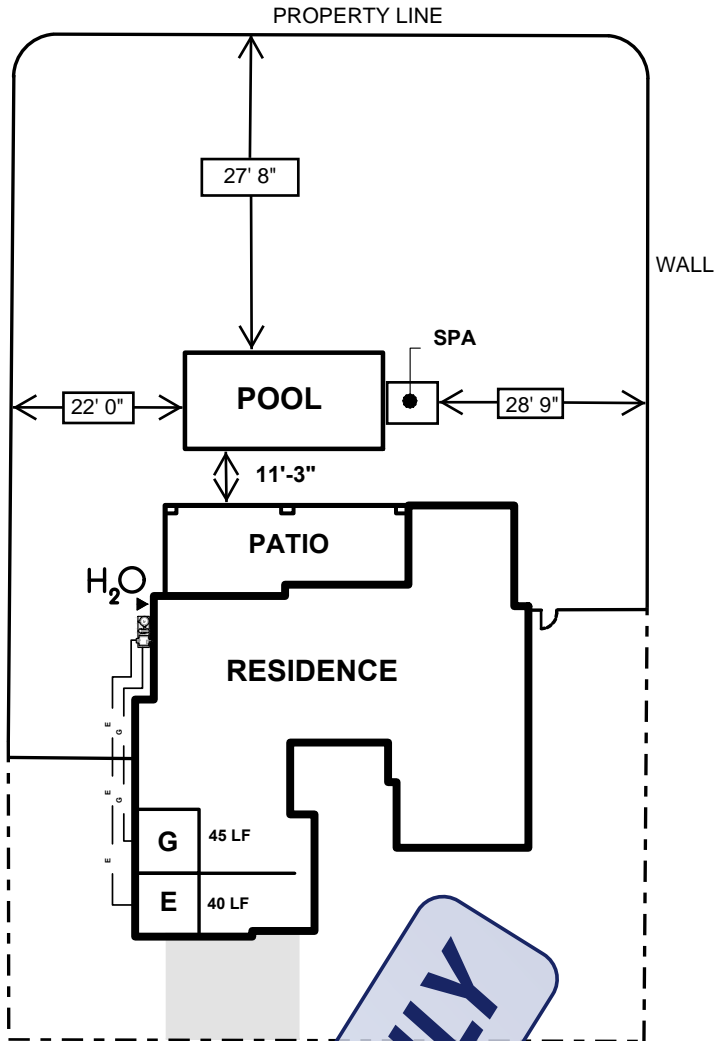
MAIN PANEL SIZE SUB PANEL SIZE IRC SECTION E3602, E3606.4, AND E3701.2, E3706.1 E3602.2.

DOORS WITH DIRECT ACCESS TO THE POOL THROUGH THAT WALL SHALL BE EQUIPPED WITH AN ALARM LISTED AND LABELED AS A WATER HAZARD ENTRANCE ALARM IN ACCORDANCE WITH UL 2017. THE OPERABLE PARTS OF THE DEACTIVATION SWITCHES SHALL BE LOCATED AT LEAST 54" ABOVE THE FINISH FLOOR. ISPSC SECTION 305.4.1.

ALL ACCESS GATES SHALL HAVE SELF-CLOSING, SELF-LATCHING DEVICES INSTALLED AT A HEIGHT OF 54" LOCATED ON THE POOL SIDE OF THE GATE. THE TOP OF THE GATE SHALL BE A MINIMUM OF 60" HIGH FROM GRADE AND SHALL HAVE A MAXIMUM OF 2" CLEARANCE FROM THE BOTTOM OF THE GATE TO GRADE. THE GATE SHALL OPEN OUTWARD AWAY FROM THE POOL AREA. ISPSC SECTION 305.3.3.

INDICATE ON THE PLAN THE REQUIRED TYPE AND HEIGHT OF BARRIER WALLS ARE A MINIMUM HEIGHT OF 60". ISPSC AMENDMENT SECTION 305.2 (1).

PET DOORS WITH DIRECT ACCESS TO THE POOL WILL NOT BE PERMITTED. IRC SECTION 106.1.1. LETTER DATED 03-01-2021.



INFORMATION ONLY

UTILITIES		
	ELECTRIC	PLUMBING
LENGTH	50'	134'
TYPE	RIGID PVC	RIGID PVC
DEPTH	-18"	-18"
SIZE	#8	2½"
TRACER WIRE	CONDUCTOR	PURPLE
CONDUIT SIZE	1"	
BREAKER SIZE	30 AMPS	
FLA	15 AMPS	
UNDER GROUND	SCH #40	
ABOVE GROUND	SCH #80	

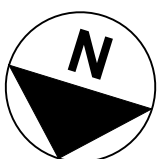
GAS LINES (1) [TOTAL LENGTH - 25 LF]	
SOURCE	METER
DESTINATION	POOL EQUIP
DEMANDS	400K BTU
LENGTH	25 LF
SIZE	1"
TYPE	POLYETHYLENE PIPE
DEPTH	-18"
TRACER	YELLOW
TOTAL LENGTH	25 LF TOTAL
TOTAL BTU	400K BTU

POOL & SPA DATA	
POOL AREA FT ²	525
SPA AREA FT ²	49
TOTAL FT ²	574
POOL DEPTHS	
SHALLOW	3.5
MIDDLE	5.0
DEEP	8.0

**Pool Company
Name - Address
- Phone
Number**

**Customer Name -
Address and Phone
Number**

**DESIGNER: ??
DWG BY: ??
DATE: ??
SCALE: ??
ROC # ??**





**INDICATE THE FOLLOWING
ON THE PLAN**

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CONDUIT SIZE		
BREAKER SIZE		
FLA		
UNDER GROUND		
ABOVE GROUND		

GAS LINE	
SOURCE	METER
DESTINATION	POOL EQUIP
DEMANDS	
LENGTH	
SIZE	
TYPE	
DEPTH	
TRACER	
TOTAL LENGTH	
TOTAL BTU	

POOL & SPA DATA	
POOL AREA FT2	
SPA AREA FT2	
TOTAL FT2	
POOL DEPTHS	
SHALLOW	
MIDDLE	
DEEP	

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