

You can see your future from here

BUILDING & ZONING

ABOVE GROUND POOL PERMIT ATTACH DRAWING AND DESCRIPTION OF POOL Must have PART A & B

DATE:	
TOTAL PERMIT FEE: \$75.00	
NAME OF POOL COMPANY:	W
ADDRESS:	
PHONE:	
RETAIL VALUE:	
NAME OF HOMEOWNER:	-
ADDRESS:	***************************************
PHONE:	
SETBACKS:	
10 feet from house	
5 feet from underground electric	
15 feet overhead electric	

Part A must be submitted with Part B before any permits are issued. Homeowners can submit applications if all information is completed on Parts A and B.

ABOVE GROUND POOL BONDING APPLICATION

PART B

Bonding needs to be done before setup and water is in pool.

DATE:	
NAME OF HOMEOWNER:	·
ADDRESS:	
PHONE:	
PERSON/COMPANY DOING THE BONDING:	

ATTACH DRAWING OF POOL AND IDENTIFY LOCATIONS WHERE IT WILL BE BONDED. ATTACH LIST OF APPROVED BONDING SUPPLIES TO BE USED (examples in packet). If you do not use bonding equipment list, a new list must be submitted before inspection.

Contractors that have done pool bonding in Godfrey:

Bickle Electric	618-259-4499
Franks Electric	618-465-4573
Camp Electric	618-462-9287
Wood-N-Electric	217-723-4413
Jerrco Electric	618-972-1273
J.A. Electric	618-791-3898
Wegman Electric	618-258-1130

Section 60.211. - Swimming pools.

No swimming pool, whether public or private, shall be located in any front yard. All swimming pools of more than two feet in depth shall have appropriate fencing installed which shall be not less than four feet in height around the pool to limit access to it unless, upon application, the zoning administrator, subject to review by the planning and zoning commission, approves a different, but equivalent, means of limiting access to the swimming pool. Unless otherwise approved by the zoning administrator upon application, subject to review by the planning and zoning commission, no fence installed around a private swimming pool may exceed a height of eight feet. A permit from the building and zoning administrator is required for all new swimming pool construction or renovation. The construction must comply with all building code requirements and the 2011 NEC as adopted by the Village of Godfrey. The electrical and bonding must be done by a certified electrician and he/she must sign the building permit along with the property owner or general contractor.

(Ord. No. 07-2009, 3-3-2009; Ord. No. 18-2017, § 2, 9-19-2017)

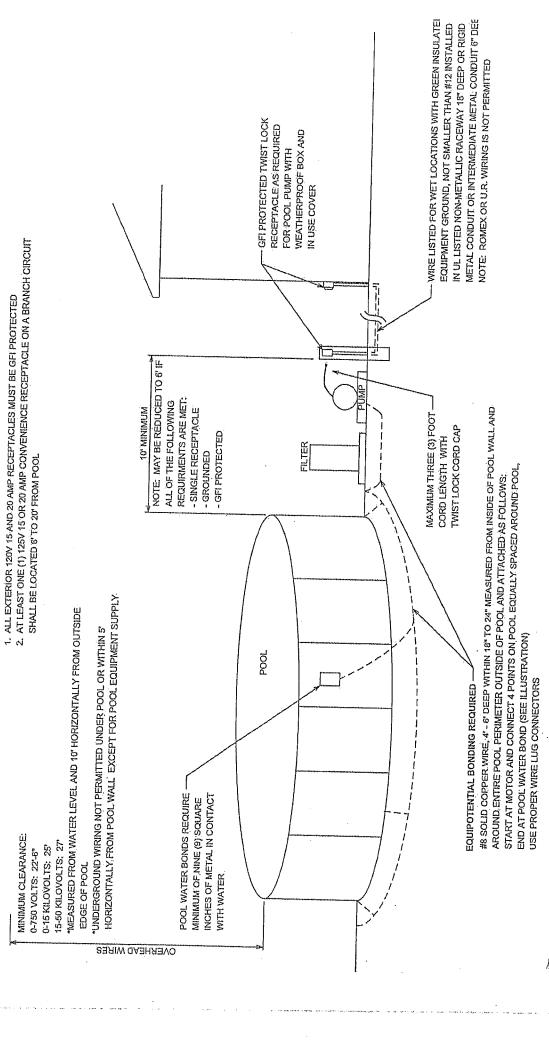
about:blank 8/24/2020

2012 INTERNATIONAL PROPERTY MAINTENANCE CODE SECTION 303

SWIMMING POOLS, SPAS AND HOT TUBS

303.1 Swimming pools. Swimming pools shall be maintained in a clean and sanitary condition, and in good repair. 303.2 Enclosures. Private swimming pools, hot tubs and spas, containing water more than 24 inches (610 mm) in depth shall be completely surrounded by a fence or barrier at least 48 inches (1219 mm) in height above the finished ground level measured on the side of the barrier away from the pool. Gates and doors in such barriers shall be self-closing and self-latching. Where the self-latching device is a minimum of 54 inches (1372 mm) above the bottom of the gate, the release mechanism shall be located on the pool side of the gate. Self-closing and self-latching gates shall be maintained such that the gate will positively close and latch when released from an open position of 6 inches (152 mm) from the gatepost. No existing pool enclosure shall be removed, replaced or changed in a manner that reduces its effectiveness as a safety barrier.

Exception: Spas or hot tubs with a safety cover that complies with ASTM F 1346 shall be exempt from the provisions of this section.



GENERAL NOTES:

MINIMUM CLEARANCE:

POOL PARTS LIST FOR INSTALLATION TO CODE

PART #	DESCRIPTION	QUANTITY
GND588CU	GROUND ROD COPPER 5/8X8 (NOT ALL POOLS)	1
BLAJAB58H	BLKBRN JAB58H 5/8 GRND ROD CLP	2
BARE8SOL	WIRE 8-SD-SOL BARE COPPER	
M1BU3802	MILB U3802 NON-FUSE AC DISC	170
1DE30030	IDEAL 30-030 NOALOX BOTL 8-OZ	1
LEV2310	LEV 2310 LKG FLUSH RECEPTACLE	1
		1
LEV14512W	LEV 1451-2W WHT SP QUIET SW	1
BURKS20	BURNDY KS20 5STR SOLDERLESS	10
BLAL70	BKJBRB K70 14-4 CU SCR LUG	10
APPWSL150	EGS WSL150 1-GANG WPRF BOX 4-1	1
APPWSM175	EGS WSM175 1-GANG WPRF BOX 3-3	
DOTFG1100C	DOTTIE FG1100C CLR 2-1/2 WP RC	2
	and and the	2

Conding Componen



1 - One-Hole Tinned Copper Lay-In Lug

Copper ray-til rad			
Part No.	Conductor Range (AWG)	Bolt Hole Size	
TCLI414DB	4 - 14	#10	
Suitable for d	I want be set at	77 40	

Suitable for direct burial.



VL) Listed 486 (NL) Listed 467

2 - Copper Split Bolt

-		Мариа
Part No.	Range for Equal Main (AWG)	Minimum Tan
GESB6		Tap
GESDO	4 Sol 8 Sol.	16 Sol.
- Codhalata C		22 3011

Suitable for direct burial.



(A) Listed 486

3 - Copper Offset Terminal Lug

	1592141	No.
Part No.	Conductor Range (AWG)	Bolt Hole Size
GEOL2	14 Str 6 Str.	#8

· Not suitable for direct burial.







4 & 5 - Rebar & Water Pipe Ground Clamps

Part No.	Pipe & Rebar Range	Conductor Range (AWG)
RB12A	3/8" - 1"	10 Sol 2 Str.
RB12B	3/8" - 1"	10 Sol 2 Str.
- Culhalala Ca		20 00% 2 00%

Sultable for direct burial.





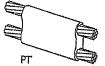
6 - CPC Pipe Clamps

P	7		
Part No.	Materia)	Nom. Pipe Size Range	Pipe Outside Diameter
CPC1.5/2	Tinned Bronze	1.5" - 2"	1" - 2,4"
CPC2.5/3	Tinned Bronze	2.5" - 3"	2.25" - 3.5"

· Sultable for direct burial.

Conductor Range #6 - 250 MCM.

Other sizes available.





7 & 8 - Cable to Cable **Ultraweld Exothermic Connection Molds**

Part No.		d Metal	LIOII MOIGS
	UltraShot	NUWTUBE	Required Handle
PT8S8SB	US25	NUWTUBE25	MH1
PS8S8SL	US25	NUWTUBE25	MH3 (Included)
PS8S6SL	US25	NUWTUBE25	MH3 (Included)



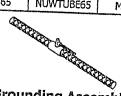
Listed 467



9 & 10 - Cable to Rebar

Ultraweld Exothermic Connection Molds

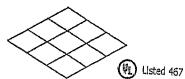
The section of the se					
Part No.	- Wel	Weld Metal			
. a 140.	UltraShot	NUWTUBE	Required Handle	Packing Mat'l No.	
RP38SB	US25	NUWTUBE25	MH1	WRPSLV	
RP4L8SA	US25	NUWTUBE25	Included		
RO38SB	US65	NUWTUBE65	MH1	CERPM1	
RO48SB	US65	NUWTUBE65	MH1	WRPSLV	
RO58SB	US65	NUWTUBE65		WRPSLV	
		NOW TOBESS	MH1	WRPSLV	



11 - Rebar Grounding Assembly

The second liverage and the se		-5 - 4000011105	y	
 Part No.	Rebar Size	Conductor Type (AWG)	Conductor Length (ft.)	
RB3GA8SX5	3	8 Sol.	5	
n Drofeladaad	THE OWNER OF THE OWNER OF THE OWNER, THE OWN			

- Prefabricated rebar grounding assembly with exothermically welded connection.
- Standard 24" long rebar.
- Can be wire tied or welded to rebar cage prior to concrete pour.



12 - UL Listed Prefabricated #8 Solid Copper Ground Mesh

Part No.	Width (ft.)	Length (ft.)	Conductor Spacing (in.)	Approx. Wt. (ibs.)
GM350812	3	50	12	27
GM375812	3	75	12	- 32
GM3100812	3	100	12	42
. 041-	-,-	(11)	12	51

Other mesh sizes and wire gauges available.

Pool Grounding & Bonding Technical

TECHNICAL NOTES:

680.26 Equipotential Bonding* (Summarized)

(A) Performance. The equipotential bonding required by this section shall be installed to reduce voltage gradients in the pool area.

(B) Bonded Parts. The parts specified in 680,26(B)(1) through (B)(7) shall be bonded together using solid copper conductors, insulated covered, or bare, not smaller than 8 AWG or with rigid metal conduit of brass or other identified corrosion-resistant metal. Connections to bonded parts shall be made in accordance with 250.8**. An 8 AWG or larger solid copper bonding conductor provided to reduce voltage gradients in the pool area shall not be required to be extended or attached to remote panelboards,

(1) Conductive Pool Shells. Bonding to conductive pool shells shall be provided as specified in 680.26(B)(1)(a) or (B)(1)(b), Poured concrete, pneumatically applied or sprayed concrete, and concrete block with painted or plastered coatings shall all be considered conductive materials due to water permeability and porosity. Vinyl liners and fiberglass composite shells

shall be considered to be nonconductive materials.

(a) Structural Reinfording Steel. Unencapsulated structural reinfording steel shall be bonded together by steel tie wires or the equivalent. Where structural reinforcing steel is encapsulated in a nonconductive compound, a copper conductor grid shall be installed in accordance with 680.26(B)(1)(b).

(b) Copper Conductor Grid. A copper conductor grid shall be provided and shall comply with (b)(1) through (b)(4).

(1) Be constructed of minimum 8 AWG bare solid copper conductors bonded to each other at all points of crossing. The bonding shall be in accordance with 250.8 or approved means.

(2) Conform to the contour of the pool and the pool deck.

(3) Be arranged in a 300 mm (12 in.) by 300 mm (12 in.) network of conductors in a uniformly spaced perpendicular grid pattern (4) Be secured within or under the pool no more than 150 mm (6 in.) from the outer contour of the pool shell.

(2) Perimeter Surfaces. The perimeter surface shall extend for 1 m (3 ft.) horizontally beyond the inside walls of the pool and shall include unpaved surfaces as well as poured concrete surfaces and other types of paving. Perimeter surfaces less than 2 m (3 ft) separated by a permanent wall or building 1.5 m (5 ft) in height or more shall require equipotential bonding on the pool side of the permanent wall or building. Bonding to perimeter surfaces shall be provided as specified in 680.26(B)(2)(a) or (2)(b) and shall be attached to the pool reinforcing steel or copper conductor grid at a minimum of four (4) points uniformly spaced around the perimeter of the pool. For nonconductive pool shells, bonding at four points shall not be required,

(a) Structural Reinforcing Steel. Structural reinforcing steel shall be bonded in accordance with 680.26(B)(1)(a).

(b) Alternate Means. Where structural reinforcing steel is not available or is encapsulated in a nonconductive compound, a copper conductor(s) shall be utilized where the following requirements are met: (1) At least one minimum 8 AWG bare solid copper conductor shall be provided.

(2) The conductors shall follow the contour of the perimeter surface.

(3) Only listed splices shall be permitted.

(4) The required conductor shall be 450 to 600 mm (18 to 24 ln.) from the inside walls of the pool.
(5) The required conductor shall be secured within or under the perimeter surface 100 to 150 mm (4 ln. to 6 ln.) below the

- (3) Metallic Components. All metallic parts of the pool structure, including reinforcing metal not addressed in 680,26(B)(1)(a), shall be bonded. Where reinforcing steel is encapsulated with a nonconductive compound, the reinforcing steel shall not be
- (4) Underwater Lighting.

(5) Metal Fittings.

(6) Electrical Equipment.

(7) Fixed Metal Parts. All fixed metal parts shall be bonded including, but not limited to, metal-sheathed cables and raceways, metal piping, metal awnings, metal fences, and metal door and window frames. Exception No 1: Those separated from the pool by a permanent barrier that prevents contact by a person shall not be required to

Exception No. 2: Those greater than 1.5 m (5 ft.) horizontally of the inside walls of the pool shall not be required to be bonded. Exception No 3: Those greater than 3.7 m (12 ft.) measured vertically above the maximum water level of the pool, or as measured vertically above any observation stands, towers, or platforms, or any diving structures, shall not be required to

(C) Pool Water. An intentional bond of a minimum conductive surface area of 5600 mm² (9 in.²) shall be installed in contact with the pool water. This bond shall be permitted to consist of parts that are required to be bonded in 680.26(B).

250.8 Connection of Grounding and Bonding Equipment**

(A) Permitted Methods. Equipment grounding conductors, grounding electrodes conductors, and bonding jumpers shall be connected by one of the following means: (1) Listed pressure connectors

(2) Terminal bars

(3) Pressure connectors listed as grounding and bonding equipment

(4) Exothermic welding process

- (5) Machine screw-type fasteners that engage not less than two threads or are secured with a nut
- (6) Thread-forming machine screws that engage not less than two threads in the enclosure

(7) Connections that are part of a listed assembly

(8) Other listed means

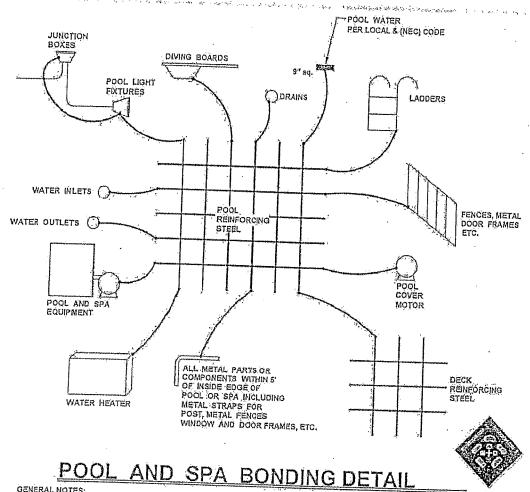
(B) Methods Not Permitted, Connection devices or fittings that depend soley on solder shall not be used.

*NEC 2011 Equipotential Bonding Article 680.26

**NEC 2011 Connection of Grounding and Bonding Equipment Article 250.8



Phone: 800-842-7437 • Fax: 847-548-8755 Website: www.harger.com • Email: hargersales@harger.com



GENERAL NOTES:

NTS

- 1.) ALL CONNECTIONS WILL BE MADE BY EXOTHERMIC WELDING OR BY PROVIDING A LISTED PRESSURE CONNECTOR OR CLAMPS THAT ARE SUITABLE FOR THE REQUIRED PURPOSE AND ARE MADE OF STAINLESS STEEL, BRASS OR COPPER
- 2.) ALL BONDING CONNECTIONS WILL BE #8
- 3.) WHERE AS STEEL REINFORCEMENT IS NOT INSTALLED THEN ALL ITEMS WILL BE BONDED TOGETHER WITH #8 COPPER

680.26(B)(6) Bonding of Electrical Equipment

