CITY OF UNDERWOOD, IOWA
Building & Safety Department
241 Third Street
P.O. Box 40
Underwood, IA 51576
Telephone: (712) 566-2373
Fax: (712) 566-2083
Inspection Request: (712) 309-2935

SWIMMING POOL/SPA & SAFETY BARRIER PERMIT APPLICATION

Permit Amount	Permit Number

JOB SITE ADDRESS: | **PARCEL NUMBER:**

LEGAL DESCRIPTION: ☐ *Attachment* | **LOT SIZE:**

ZONING DISTRICT:

☐ **OS-A Open Space- Agriculture** ☐ **R-1 Single Family Residential** ☐ **R-2 Two Family Residential**
☐ **R-3 Multiple Family Residential** ☐ **R-1M Single Family Mobile/Manufactured Home Residential**
☐ **DC Downtown Commercial** ☐ **CC Corridor Commercial**
☐ **M-1 Light Industrial District** ☐ **M-2 General Industrial**

PROPERTY OWNER: | **PHONE NUMBER:**

PROPERTY OWNERS ADDRESS: | **STATE:** | **ZIP CODE:**

APPLICANT/CONTRACTOR NAME: | **STATE LICENSE #:** | **PHONE NUMBER:**

MAILING ADDRESS: | **STATE:** | **ZIP CODE:**

SUB-CONTACTORS NAME & STATE LICENSE #'s: *(if applicable)*

Electrical: _____ **Plumbing:** _____ **Mechanical:** _____

State License #: _____ **State License #:** _____ **State License #:** _____

Class of Work: ☐ New ☐ Addition ☐ Alteration ☐ Repair ☐ Replacement ☐ Other _____

Use Type: ☐ Private/Residential ☐ Public ☐ Other _____

Type: ☐ Above Ground ☐ In Ground ☐ Other _____

Water Supply: ☐ Private Well ☐ Public Connection ☐ Other _____

Drainage Discharged to: ☐ Private Property ☐ Public Storm Sewer ☐ Other _____

Number of Gallons in Pool/Spa: _____ (1 square foot = 7.48 g) **Approximate Pool/Spa Dimensions:** _____

PERMIT FEES		AMOUNTS
This permit fee will be verified during plan review and collected at the time of permit issuance. *(See next page to figure cost)*	**Permit Fee**	**$**
Figuring the Plan Review Fee at 25% of the calculated Permit Fee cost. The Plan Review Fee will be a required deposit at the time of your permit application submittal. *(see next page to figure cost)*	**Plan Review Fee** *(Submittal Deposit)*	**$**
	TOTAL AMOUNT	**$**

I have indicated all natural and man-made water courses which may have impact on or be impacted by the proposed retaining wall, block wall or fence. I understand and agree that should the City determine that this retaining wall, block wall or fence be detrimental to the safe flow of any water course, this permit will be rendered invalid immediately. I further agree that if I fail to adhere to the above requirements, the retaining wall, block wall or fence may be abated, removed or altered at my expense. I will save, indemnify, and keep harmless the City of Underwood, its officers, employees, and agents against all liabilities, judgments cost, and expenses which may accrue against them in consequence of the granting of this permit, inspections, or use of any on-site or off-site improvements placed by virtue hereof, and will in all things strictly comply with all applicable rules, ordinances, and laws; and I understand all permit fees are non-refundable. My signature constitutes an attestation by the applicant that this application complies with all covenants, conditions, and restrictions.

APPLICANTS SIGNATURE _____ DATE _____

Issued By:	Date:

PERMIT ISSUANCE – Part A		
	COST	AMOUNT
For the issuance of each permit and for all new Above Ground Pools & Spas greater than 5,000 gallons.	$ 23.50	***$ 23.50***
For the issuing of each supplemental permit for which the original permit has not expired, been canceled, or finale.	$ 7.25	
ELECTRICAL FEE		
Public Swimming In-ground Pools – For new public, in ground swimming pools & spas for, including a complete system of necessary branch circuit wiring, bonding, grounding, underwater lighting, water pumping and other similar electrical equipment directly related to the operation.	$ 82.25	
Private Above Ground Swimming Pools—For new above ground swimming pools & spas for single-family and multi-family occupancies including a complete system of necessary apparatus, conduits and conductors and other similar electrical equipment directly related to the operation.	$ 18.25	
Private Swimming In-ground Pools – For new private, in ground swimming pools & spas for single-family and multifamily occupancies, including a complete system of necessary branch circuit wiring, bonding, grounding, underwater lighting, water pumping and other similar electrical equipment directly related to the operation.	$49.50	
PLUMBING FEE		
Public Swimming Pool – For new public, in ground swimming pools, including a complete system of necessary water piping lines, filter piping lines and other similar plumbing equipment directly related to the operation.	$ 91.25	
Public Spa – For new public, in ground swimming pools, including a complete system of necessary water piping lines, filter piping lines and other similar plumbing equipment directly related to the operation.	$ 60.75	
Private Swimming In-ground Pool – For ***in ground*** swimming pools over 5,000 gallons.	$ 60.75	
Private In-ground Spa and/or Pool – For ***in ground*** spas and/or pools less than 5,000 gallons.	$ 30.25	
	Part A Total (Permit Issuance, Electrical & Plumbing Fee)	**$**

BARRIER / FENCE FEE – Part B		
The wall/fence as described below is totally within the boundaries of the property. ☐ Yes ☐ No		
The wall/fence as described below is located on the property line. ☐ Yes ☐ No		
Fence Type: ☐ Chain Link ☐ Wood ☐ Wrought Iron ☐ Other _____		
Total Lineal Feet @ 4' to 6' High x $2.75 = _____ **Total Permit Valuation:** _____		
After calculating the lineal footage with the permit valuation multiplier and determining your total permitted valuation, use the Building Permit Fee Schedule (see below) and determine your Permit Fee. This permit fee will be verified during plan review and collected at the time of permit issuance.	**Part B Total** (Barrier/Fence Fee)	**$**

TOTAL VALUATION	PERMIT FEE
$1 to $500	$ 23.50 (minimum fee)
$501 to $2,000	$ 23.50 for the first $ 500.00 plus $ 3.05 for each additional $ 100.00, or fraction thereof, to and including $ 2,000.00
$2,001 to $25,000	$ 69.25 for the first $ 2,000.00 plus $ 14.00 for each additional $ 1,000.00, or fraction thereof, to and including $ 25,000.00

	Permit Fee *(Part A + Part B)*	**$**

SECTION B – ZONING INFORMATION
Table 1 – Height & Area Matrix

			Minimum Yard Setbacks							
DISTRICT	**Minimum Lot Area (Sq. ft.)**	**Maximum Height (ft.)**	**Front**	**Side**	**Street Side**	**Rear**	**Maximum Lot Coverage**	**Minimum Lot Width**	**Minimum Lot Depth**	**Maximum Impervious Coverage**
OS-A	**217,800**	**35/50**	**50**	**50**	**50**	**50**	**------**	**450**	**-------**	**------**
R-1	**7,500/8,000**	**35**	**20**	**7**	**20**	**25**	**40%**	**60/70/35**	**100**	**60**
R-2	**6,000/3,000**	**35**	**20**	**7**	**20**	**25**	**40%**	**60/70/35**	**100**	**60**
R-3	**10,000/2,000**	**45/35**	**25/35**	**10**	**25**	**25**	**60%**	**------**	**------**	**75**
R-1M	**5,200/7,500**	**15**	**25**	**10**	**20**	**20**	**------**	**60/70/35**	**100**	**------**
CC	**7,500**	**35**	**25**	**7/15**	**25**	**10/15**	**------**	**------**	**------**	**------**
DC	**2,000**	**45**	**None**	**0/10**	**None**	**15/25**	**------**	**------**	**------**	**------**
M-1	**10,000**	**None**	**25**	**10/20**	**25**	**10/25**	**------**	**------**	**------**	**------**
M-2	**10,000**	**None**	**25**	**10/20**	**25**	**10/25**	**------**	**------**	**------**	**------**
FP & FW	**Same as underlying base district**									

Note: Provided in Table 1, Height and Area Matrix, are the height and area requirements for each zoning district. Where there are two (2) or more values shown, the first is for the permitted use in the district followed by supplemental requirements for other uses and site conditions. For example, in the R-1 District the minimum lot width is shown as 60/70/35, which means that sixty (60) feet is the minimum lot width for most lots, seventy (70) feet is the minimum lot width for corner lots, and thirty-five (35) feet is the minimum lot width (at the curb) for lots abutting a cul-de-sac. The second value shown for rear and side setbacks in the commercial and industrial zoning districts are for lots that are adjacent to residential areas.

SECTION C- FLOOD PLAIN DEVELOPMENT

Rate Map Information		*Rate Map*	*Flood Zone:* ☐ *.2%* ☐ *A* ☐ *AE* ☐ *AH* ☐ *AO* ☐ *X*	*Floodplain?* ☐ *Yes* ☐ *No*	*Floodway?* ☐ *Yes* ☐ *No*
PROJECT DESCRIPTION	**Type of Development**	☐ *Filing* ☐ *Routine Maintenance* ☐ *Substantial Improvement* ☐ *Grading/Excavation* ☐ *Minor Improvement* ☐ *New Construction(Skip Structural Improvements)*			
	Detailed Description of Development Proposed	☐ *Per Attachment*			
STRUCTURAL IMPROVEMENTS	**Is the existing structure non-conforming?**	☐ *Not Applicable* ☐ *There is no existing structure* ☐ *Yes* ☐ *No*			
	Size of existing structure(s):				
	Value of existing structure(s):	**$**	*Source of value of existing structure*	☐ *Assessor* ☐ *Appraisal*	
	Size of proposed structure and/or addition:				
	Estimated cost of improvements:	**$**			
	Type of structure being constructed/improved:	☐ *Residential Dwelling* ☐ *Non-Residential* ☐ *Accessory Building* ☐ *Other:*			
FLOODPLAIN/FLOODWAY DATA	**Is property located in a designated floodway?**	☐ *Yes* ☐ *No*	*If answered yes, certification must be provided prior to the issuance of a permit to develop, that the proposed development will result in no increase in the 100-year base flood elevation. No new residential or substantially improved buildings are permitted in the floodway.*		
	Is property located in a designated floodway fringe?	☐ *Yes* ☐ *No*	*If this permit is issued, it will be with the condition that the lowest floor (including basement) of any new or substantially improved residential building will be elevated at least 1.0 above the 100-year base flood elevation. If the proposed development is a non-residential building, this permit will be issued with the condition that the lowest floor (including basement) of a new or substantially improved non-residential building will be elevated or flood proofed to at least 1.0 foot above the 100-year base flood elevation. Detached accessory structures to a residential use may be exempt if it meets certain criteria. Contact the Planning Dept. of details.*		
	MSL/NGVD=Mean Sea Level/National Geodetic Vertical Datum of 1929	*Elevation of the 100-Year Base Flood:*		*MSL/NGVD:*	
		Elevation of the proposed development site (natural ground/grade):		*MSL/NGVD:*	
		Required elevation/flood proofing level for lowest floor:		*MSL/NGVD:*	
		Proposed elevation/flood proofing level for lowest floor (including basement):		*MSL/NGVD:*	

Please make be certain that you want to proceed with this project when you submit your application. The fees that you submit are not refundable once the application is submitted.

PLAN SUBMITTAL REQUIREMENTS FOR IN-GROUND SWIMMING POOLS AND SPAS

DRAWINGS SUBMITTAL: Two (2) copies of the following drawings are required. Drawings must be drawn to scale, dimensioned and of sufficient clarity. Drawings must be submitted along with a completed permit application form.

PROFESSIONAL CERTIFICATION: Depth of the swimming pool shall maintain a ratio of 1:1 from the nearest foundation up to a maximum depth of 5'-0" (i.e. for a depth of 5'-0" the pool must be located 5'-0" from the nearest foundation) otherwise an engineered drawing is required.

REQUIRED DRAWINGS: The following is a general outline of drawings necessary for plan review (Plan Examiner may request additional information if necessary).

1. Site plan must include all dimensions, (scale: 1"=20'-0") including location of pool in reference to the property line and all building locations. All easements must be shown on site plan and location, type, and height of pool spa barrier.
2. Pool plans must include all dimensions (scale: 1/8"=1'0" or ¼"= 1"0")
3. Section through the pool structure must include all depth dimensions.
4. Equipment drawings' diagrams must include dimension in reference to property line.
5. All decking is required to be shown on the pool plans. Decking is prohibited in utility/electric easements.
6. Manufacturer's brochure or details of pool required for above ground pools.

NOTE:

1. Fences and barriers surrounding pools are subject to special requirements (refer to Appendix G, Section AG105, 2006 IRC) See Pool Barrier Requirements.
2. Self-contained units without hardwiring do not require an electrician to perform the work.
3. Pre-plaster inspection cannot be done unless the swimming pool barrier has been installed and approved.
4. Provide pool barrier information on the drawings; refer to glazing requirements of Chapter 3, of 2006 IRC. (Impact resistance glazing is required when the glazing is within 5 feet of a swimming pool or spa water's edge and the bottom edge of the glazing is less than 60" above the poolside of the glazing).
5. Where the fence is existing, it is the applicant's responsibility to upgrade the pool barrier to comply with the pool barrier requirements.
6. Where the pool and fence are existing and only the fence is being replaced, the fence has to comply with the pool barrier requirements.
7. Permit holder is responsible for requesting and completing all required inspections.
8. Public swimming pools and spas shall comply with Iowa Department of Health Standards for Public Swimming Pool and Spa. For copies of the Standard, contact the State of Iowa.
9. Diving board for residential pools (drawings required) shall comply with ANSI/NSPI-5 2003 Article 5.8, 5.9, 5.10.
10. Manufacturer's specifications required for diving equipment including pool type & maximum height above the water.
11. Swimming pools shall comply with the 2003 International Energy Conservation Code Section 504.3 – 504.3.3.

POOL BARRIER REQUIREMENTS FOR RESIDENTIAL POOL

International Residential Code 2006 Appendix G, Section AG105-2- AG105.5

AG105.2 Outdoor Swimming Pool. An outdoor swimming pool, including an in-ground, aboveground or on-ground pool, hot tub or spa shall be provided with a barrier, which shall comply with the following:

1. The top of the barrier **shall be at least 54 inches** (1219mm) above grade measured on the side of the barrier, which faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of the barrier shall be 2 inches (51mm) measured on the side of the barrier, which faces away from the swimming pool. Where the top of the pool structure is above grade, such as an aboveground pool, the barrier may be at ground level, such as the pool structure, or mounted on top of the pool structure. Where the barrier is mounted on top of the pool structure, the maximum vertical clearance between the top of the pool structure and the bottom of the barrier shall be 4 inches (102mm).
2. Openings in the barrier shall not allow passage of a 4-inch-diameter (102mm) sphere.
3. Solid barriers which do not have openings, such as masonry or stone wall, shall not contain indentations or protrusions except for normal construction tolerances and tooled masonry joints.
4. When the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is less than 45 inches (1143mm), the horizontal members shall be located on the swimming pool side of the fence, or shall be so constructed as to not provide a climbable surface. Spacing between vertical members shall not exceed 1.75 inches (44mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches (44 mm) in width.
5. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches (1143 mm) or more, spacing between vertical members shall not exceed 4 inches (102 mm) not exceed 1.75 inches (44 mm) in width.
6. Maximum mesh size for chain link fences shall be a 2.25-inch (57 mm) square unless the fence is provided with slats fastened at the top or the bottom which reduce the openings to not more than 1.75 inches (44 mm).
7. Where the barrier is composed of diagonal members, such as a lattice fence, the maximum opening formed by the diagonal members shall not be more than 1.75 inches (44 mm).

8. Access gates shall comply with the requirements of Section AG105.2, Items 1 through 7, and shall be equipped to accommodate a locking device. Pedestrian access gates shall open outward away from the pool and shall be self-closing and have a self-latching device. Gates other than pedestrian access gates shall have a self-latching device. Where the release mechanism of the self-latching device is located less than 54 inches (1372 mm) from the bottom of the gate, the release mechanism and openings shall comply with the following:
    a. The release mechanism shall be located on the pool side of the gate at least 6 inches (152 mm) below the top of the gate, and
    b. The gate and barrier shall have not opening greater than 0.5 inch (12.7 mm) within 18 inches (457 mm) of the release mechanism.
9. Where a wall of a dwelling serves a part of the barrier, one of the following conditions shall be met:
    a. The pool shall be equipped with a powered safety cover in compliance with ASTM F1346; or
    b. All doors with direct access to the pool through that wall shall be equipped with an alarm which produces an audible warning when the door and its screen, if present, are opened. The alarm shall sound continuously for a minimum of 30 seconds immediately after the door is opened and be capable of being heard throughout the house during normal household activities. The alarm shall automatically reset under all conditions. The alarm system shall be equipped with a manual means, such as touchpad or switch, to temporarily deactivate the alarm for a single opening. Such deactivation shall last for not more than 15 seconds. The deactivation switch(s) shall be located at least 54 inches (1372 mm) above the threshold of the door; or
    c. Other means of protection, such as self-closing doors with self-latching devices, which are approved by the governing body, shall be acceptable so long as the degree of protection afforded is not less than the protection afforded by Item 9.1 or 9.2 described above.
10. Where an above-ground pool structure is used as a barrier or where the barrier is mounted on top of the pool structure and the means of access is a ladder or steps, then:
    a. The ladder or steps shall be capable of being secured, locked or removed to prevent access, or
    b. The ladder or steps shall be surrounded by a barrier which meets the requirements of Section AG105.2, Items 1 through 9. When the ladder or steps are secured, locked or removed, any opening created shall not allow the passage of a 4-inch-diameter (102 mm) sphere.

AG105.3 Indoor Swimming Pool. All walls surrounding an indoor swimming pool shall comply with Section AG105.2, Item 9.

AG105.4 Prohibited Locations. Barrier shall be located so as to prohibit permanent structures, equipment or similar objects from being used to climb the barriers.

AG105.5 Barrier Exceptions. Spas or hot tubs with a safety cover which complies with ASTM F 1346, as listed in Section AG107, shall be exempt from the provisions of this appendix.