



Custom inground pools
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GENERAL NOTES AND REQUIREMENTS – POOL & SPA CONSTRUCTION

Reference Standard: 2015 International Swimming Pool and Spa Code (ISPSC)

1. Errors and Omissions

Any omissions or conflicts between various elements on the drawings and/or in these general notes shall be brought to the attention of the Design Firm **before proceeding with the work**. Failure to do so will result in the contractor assuming **full responsibility and liability** for the work as installed.

The Contractor/Owner shall indemnify the Design Firm from any **errors and omissions** that may occur during the preparation of these design documents.

2. Scope of Work

The subcontractor shall provide and furnish at the site **all labor, materials, tools, scaffolding, apparatus, supplies, equipment, machinery, transportation, supervision, insurance, taxes**, and other technical or professional services necessary to perform all operations required to complete the work indicated and/or implied by the drawings and these notes.

All work shall comply with the **2015 ISPSC**, manufacturer installation instructions, and applicable local and state codes.

2. Scope of Work (Updated for Steel Panel Vinyl Liner Pool)

The subcontractor shall provide and furnish at the job site **all labor, materials, equipment, tools, scaffolding, supervision, insurance, transportation, permits, and taxes** necessary to complete the work as shown on the construction drawings and described in these notes.

This includes but is not limited to the complete installation of an **in-ground steel wall vinyl liner swimming pool**, and shall include the following tasks and responsibilities:

General Requirements

- Comply with all applicable codes, including the **2015 International Swimming Pool and Spa Code (ISPSC)**, local building ordinances, and manufacturer instructions.
- Verify site conditions and report discrepancies before beginning work.
- Protect all existing site features, utilities, and structures.
- Maintain a safe, clean, and organized work site.

Steel Panel Pool Construction Scope

1. Layout and Excavation

- Lay out pool per approved plans and elevations.
- Excavate to required depth and profile, including deep end hopper if applicable.
- Provide any required dewatering or trench stabilization.

2. **Steel Panel Wall System**

- Supply and install pre-engineered galvanized steel wall panels with braces per manufacturer specifications.
- Anchor walls, align to plan dimensions, and secure with concrete footing per engineered design.
- Ensure wall system is square, plumb, and level within tolerances.

3. **Bracing and Deck Support**

- Install diagonal and vertical bracing per the wall system's structural requirements.
- Set up deck support system as required to support cantilevered or concrete decks.

4. **Plumbing System**

- Install suction and return lines, main drain(s), skimmers, and pressure-tested circulation piping in accordance with **2015 ISPSC Section 307** and mechanical code.
- Pressure test plumbing lines to code requirements before backfill.
- Protect piping from mechanical damage and excessive temperature per **ISPSC 304.3**.

5. **Electrical Bonding & Conduit**

- Install electrical bonding grid and grounding connections in accordance with **NEC (NFPA 70)** and **ISPSC Section 804**.
- Coordinate with licensed electrician for bonding of steel walls, ladders, light niches, and metallic components.

6. **Concrete Footing and Collar**

- Pour concrete collar around the base of steel walls per engineering requirements.
- Ensure collar provides structural stability and locks panels in place.

7. **Bottom Preparation**

- Shape and compact pool floor to final dimensions using clean fill or sand.
- Install a vermiculite or sand/cement bottom as specified.

8. **Liner Installation**

- Furnish and install custom-fitted vinyl liner.
- Use vacuum system to properly seat liner before filling.
- Inspect for wrinkles, leaks, and defects prior to pool filling.

9. **Backfill and Compaction**

- Backfill around exterior of steel walls using clean, compactable material in uniform lifts.
- Avoid using debris, rocks, or frozen soil as fill.
- Compact backfill to prevent future settling.

10. **Equipment Installation**

- Set up and connect pool equipment (pump, filter, heater, chlorinator, etc.) in accordance with manufacturer instructions and applicable codes.
- Ensure proper circulation and function before final inspection.

11. **Start-Up and Owner Orientation**

- Perform initial system start-up, check for leaks, adjust circulation, and verify all systems are operational.
- Provide orientation to the owner regarding operation and maintenance.

12. **Warranty**

- The pool warranty shall begin after pool start-up.
- Subcontractor shall honor manufacturer and workmanship warranties per contract.

3. **Codes, Ordinances, Permits & Tests**

1. All construction must comply with the **latest adopted Michigan Rehabilitation Code for Existing Buildings**, including the **2015 International Swimming Pool and Spa Code (ISPSC)**, **International Building Code**, **Plumbing, Mechanical, Electrical**, and **State of Michigan Energy Codes**.
2. The contractor shall **obtain and pay for all permits, bonds, inspections, and required tests**.

3. **Swimming Pools and Spas (Section R326 per 2015 ISPSC):** Design and construction must comply with all applicable sections of the **2015 ISPSC**.
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4. Insurance

All subcontractors shall carry **broad form comprehensive liability insurance** and **worker's compensation insurance**, and submit certificates of insurance to the contractor **prior to executing any work**.

5. Site Examination

Before submitting a bid, the subcontractor must examine the site and understand existing conditions, including utilities and services. No extras will be allowed due to failure to do so. The subcontractor is also responsible for any unauthorized disruptions to utilities, services, or facilities.

6. Workmanship

All work must be performed in a **first-class, safe, and workmanlike manner**, in accordance with industry standards and the **2015 ISPSC**. Workmanship is subject to approval by the contractor.

7. Protection of Property

The subcontractor shall protect all materials on site and be responsible for any damage to buildings, landscaping, sidewalks, or curbs due to their operations. Materials remain the subcontractor's responsibility until installed and accepted.

8. Job Site Cleanliness

The subcontractor must clean up and remove all debris daily or as required by the contractor. All disposal must comply with local laws and ordinances.

9. Shoring & Bracing

The subcontractor shall provide all shoring, bracing, and means necessary to protect the stability and safety of all construction. The **contractor is solely responsible** for determining erection procedure and sequence.

10. Miss Dig Notification

The contractor must contact **MISS DIG (1-800-482-7171)** at least **72 hours** before starting any construction or excavation.

11. Soil Erosion Control

The contractor shall obtain a valid **Act 347 Soil Erosion and Sedimentation Control Permit**, pay necessary fees and provide bonds. No excavation may begin prior to permit issuance.

12. Coordination & Verification

All subcontractors must **verify and coordinate all dimensions** with drawings, elevations, sections, and details before starting work. Use **printed dimensions only**. Scaling drawings is not permitted. Any conflicts must be reported prior to construction.

13. Pool Warranty

The pool warranty shall begin **after pool startup**.

14. Sand Backfill

NS Sand Backfill is required **where indicated** by Custom Pools LLC.

APPLICABLE CODE EXCERPTS – BASED ON 2015 ISPSC

Section 301 – Minimum Standards (ISPSC 2015 §301)

- All components (pipes, fittings, traps, fixtures) must be **certified and labeled** by a third-party agency per **Section 301.2** of the **2015 ISPSC**.
 - Pools, spas, and hot tubs must be equipped with approved mechanical equipment, including filters, pumps, and valves (§301.2.3).
 - Fuel gas piping must comply with the mechanical code (§301.2.4).
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Section 302 – Workmanship & Installation Practices (ISPSC 2015 §302)

- Schedule 40 for non-threaded plastic piping; Schedule 80 for threaded.
 - Bending and installation of plastic/copper piping must follow **Sections 302.3–302.4**.
 - Burred ends must be reamed and cleaned (§302.6).
 - Proper reducers/increasers must be used between pipe sizes (§302.6.1).
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Section 304 – Piping Protection (ISPSC 2015 §304)

- Piping shall not be embedded directly in concrete/masonry.
 - No damage shall be made to structural members (per IBC and §304.1).
 - PVC piping exposed to sunlight must be painted or wrapped per §304.12.
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Section 305 – Excavation & Backfill (ISPSC 2015 §305)

- Trenches shall remain open for inspection before backfilling (§305.3).
 - Proper backfill material and compacting procedures must be used (§305.4).
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Section 306 – Energy Efficiency (ISPSC 2015 §306)

- Pool heaters must have accessible shutoffs and no continuously burning pilot lights (§306.1.1).
 - Heated pools >90°F must have R-12 insulated covers unless exempt (§306.1.2).
 - Time switches required unless continuous pump operation is mandated (§306.1.3).
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Section 307 – Water Supply & Circulation Materials (ISPSC 2015 §307)

- Materials must comply with NSF 61 and be free of defects (§307.1).
 - Previously used piping is prohibited (§307.7).
 - Plastic piping must include tracer wire per §307.8.1.
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Section 308 – Plastic Pipe Joints (ISPSC 2015 §308.12)

- Joints must follow manufacturer instructions and ISPSC §§308.12.1–308.12.3.
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Section 401 – Lighting (ISPSC 2015 §401.3)

- Minimum lighting levels required:
 - Indoor water surface: 60 footcandles
 - Outdoor water surface: 10 footcandles
 - Decks: 10 footcandles (§401.3.1)
 - Underwater lighting requirements are specified in §401.3.2.
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Section 402 – Pool Construction Requirements (ISPSC 2015 §402)

- All public and private pools must follow ISPSC and manufacturer's instructions (§402.1).
 - Pools must be watertight, reinforced concrete or approved materials (§402.2).
 - Freeze protection and bonding of dissimilar materials required (§402.2.1–402.2.2).
 - Pools must be designed for hydrostatic, seismic, geotechnical, and full/empty loading conditions (§402.3).
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NOTE:

All contractors, subcontractors, and trades shall maintain full compliance with the **2015 International Swimming Pool and Spa Code, NFPA 70**, and applicable local/state codes throughout the construction, inspection, and close-out process.