LOGIX®
INSULATED CONCRETE FORMS

SWIMMING POOL DESIGN GUIDE (USA)

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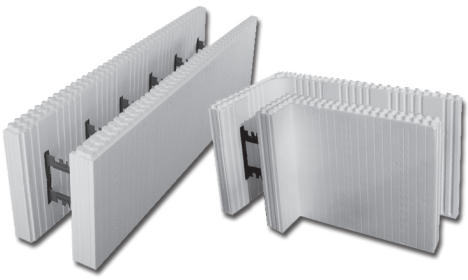

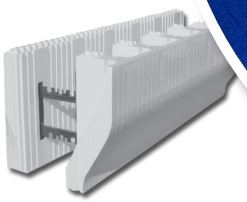

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DISCLAIMER

This engineering in this guide was developed in accordance with ACI 318 Building Code Requirements for Structural Concrete and should only be used for Logix pool construction within the United States.

By using the Logix Pool Design Guide, in part or in whole, the user accepts the following terms and conditions.

The Logix Pool Design Guide shall be used for the sole purpose of estimating, design or construction of pool structures constructed with Logix Insulated Concrete Forms that are within the scope of the prescriptive engineering tables found in this document.

The information represented herein is to be used as a reference guide only. The user shall check to ensure the information provided in this guide, including updates and amendments, meets local building codes and construction practices by consulting local building officials, construction and design professionals, including any additional requirements.

Logix reserves the right to make changes to the information provided herein without notice and assumes no liability in connection with the use of this guide including modification, copying or distribution.

The user shall check to ensure that any construction projects utilizing the Logix Pool Design Guide includes the latest updates/amendments (related to the version of the Logix Pool Design Guide being used at the time of the construction project). Updates/amendments to the Logix Pool Design Guide are available for download in the "Technical Library" under "Addenda" at www.logixicf.com.

1.0 - INTRODUCTION

Logix ICF walls are intended to be used both above and below grade, and can carry large vertical as well as lateral loads. They are particularly effective for residential, commercial and industrial buildings and pools; providing excellent insulation as well as thermal mass and structural strength. They can be easily adapted to accommodate concrete floors and other "non-standard" building systems.

Construction must be in conformance with the Logix Pool Design Guide, Logix Pool Installation Guide, and the Logix Installation Manual, including assembly of formwork, bracing, accurate rebar positioning, concrete mix design & placement, and details for interconnection with the other building components. These documents are available in the Technical Library at www.LogixICF.com.

2.0 - STRUCTURAL DESIGN AND PERFORMANCE

The Logix Building System can be used for an infinite variety of building situations with proper engineering. This report, with its load tables and diagrams, is intended to assist with the structural design of Logix ICF walls used to construct below- and at-grade pools.

Where unusual conditions are encountered, it is recommended that the user consult a designer who can evaluate the loadings to the various components and who can appreciate the limitations of "prescriptive" design under unusual conditions.

3.0 - REINFORCEMENT TABLES

The reinforcement tables provided in this report were developed using the applicable sections of ACI 318 Building Code Requirements for Structural Concrete.

The tables cover in- and above-ground pools, including with and without surcharge loads, and sloped slabs, and covers size and corresponding reinforcement requirements for Logix ICF walls and footings.

4.0 - REFERENCE STANDARDS

- IBC 2018 International Building Code
- ASCE 7–16 American Society of Civil Engineers (Minimum design loads for buildings & other structures)
- AISC 360–10 American Institute of Steel Construction (Specification for structural steel buildings)
- AISI 2007 American Iron and Steel Institute (Design of cold formed steel & structural members)
- ACI 318–14 American Concrete Institute (Building code requirements for structural concrete)

5.0 - DESIGN PARAMETERS

5.1 - GRAVITY DESIGN LOADS

Water load = 63 psf (for above-ground pool design)

5.2 - CONCRETE

Structural concrete shall be designed in accordance with the building code requirements for reinforced concrete (ACI 318-14).

The concrete used for footing and slab shall have minimum ultimate compressive strength of 3000 PSI.

Normal-Weight structural concrete (145 pcf) must be coarse aggregate confirming to ASTM C330.

5.3 - REINFORCING STEEL

The reinforcement used shall confirm to ASTM A615 of Grade 60 ksi.

Vertical reinforcement in ICF walls are assumed to be placed at center of wall for in- and above-ground pool walls.

Horizontal reinforcing in the pool wall shall be #4@16" alternately placed on each side of the vertical reinforcing.

When a splice is required in continuous reinforcement, rebar shall overlap a minimum of 40Ø (Ø=bar diameters). Steel hook length shall be 1'-0" minimum.

5.4 -SOIL DATA

Minimum Soil Bearing capacity is assumed as 2000 psf.

Equivalent Fluid Density Soil Classification[1, 2]

MAXIMUM EQUIVALENT FLUID DENSITY, pcf	USC[2] CLASSIFICATION	SOIL DESCRIPTION
30 pcf	GW, GP, SW, SP	Well-drained cohesionless soils such as clean (few or no fines) sand and gravels.
45 pcf	GM, GC, SM, SM-SC, ML	Well-drained cohesionless soils such as sand and gravels containing silt or clay.
60 pcf	SC, MH, CL, CH, ML-CL	Well-drained inorganic silts or clays that are broken up into smaller pieces.

1. User must verify that the values in this table agree with local codes and practices.
2. USC - Uniform soil classification

6.0 - LIMITATIONS

Limitations on pool height, footing size and subjected loadings are as shown in the tables. Slabs specified are minimum 6 inch thick.

More specific design assumptions and limitations may be located within the corresponding tables.

7.0 - IN-GROUND SWIMMING POOL PRESCRIPTIVE TABLES - WITHOUT SURCHARGE

TABLE 1: 6.25" LOGIX IN-GROUND SWIMMING POOL WALL & FOOTING REINFORCING (W/O SURCHARGE)

TABLE 1: 6" ICF IN-GROUND SWIMMING POOL WALL AND FOOTING REINFORCING (WITHOUT SURCHARGE)																		
WALL HEIGHT (FT)	EQUIVALENT FLUID PRESSURE (PCF)																	
	30 PCF						45 PCF						60 PCF					
	WALL		FOOTING				WALL		FOOTING				WALL		FOOTING			
	HORIZ REINF.	VERT REINF.	SIZE	ECC. (Inch)	REINFORCING LONG.	REINFORCING TRANS.	HORIZ REINF.	VERT REINF.	SIZE	ECC. (Inch)	REINFORCING LONG.	REINFORCING TRANS.	HORIZ REINF.	VERT REINF.	SIZE	ECC. (Inch)	REINFORCING LONG.	REINFORCING TRANS.
3'-0"	#4 @16	#4 @16	W=24 T=10	B=15	3-#5	#5 @16	#4 @16	#4 @16	W=24 T=10	B=15	3-#5	#5 @16	#4 @16	#4 @16	W=26 T=10	B=16	3-#5	#5 @16
4'-0"	#4 @16	#4 @16	W=24 T=10	B=15	3-#5	#5 @16	#4 @16	#4 @16	W=30 T=10	B=18	3-#5	#5 @16	#4 @16	#4 @16	W=32 T=10	B=20	3-#5	#5 @16
5'-0"	#4 @16	#4 @16	W=30 T=10	B=18	4-#5	#5 @16	#4 @16	#4 @16	W=34 T=10	B=20	4-#5	#5 @16	#4 @16	#4 @12	W=40 T=10	B=24	4-#5	#5 @16
6'-0"	#4 @16	#4 @16	W=34 T=10	B=20	4-#5	#5 @16	#4 @16	#4 @10	W=46 T=10	B=28	4-#5	#5 @16	#4 @16	#5 @12	W=48 T=12	B=30	4-#5	#5 @12
7'-0"	#4 @16	#4 @10	W=40 T=10	B=24	5-#5	#5 @16	#4 @16	#5 @10	W=48 T=12	B=30	5-#5	#5 @12	#4 @16	#5 @7	W=56 T=12	B=32	5-#5	#5 @12
8'-0"	#4 @16	#6 @8	W=46 T=12	B=28	5-#5	#5 @12	Not Recommended						Not Recommended					
9'-0"	#4 @16	#6 @6	W=52 T=12	B=30	6-#5	#5 @12	Not Recommended						Not Recommended					

TABLE 2: 8" LOGIX IN-GROUND SWIMMING POOL WALL & FOOTING REINFORCING (W/O SURCHARGE)

TABLE 2: 8" ICF IN-GROUND SWIMMING POOL WALL AND FOOTING REINFORCING (WITHOUT SURCHARGE)																		
WALL HEIGHT (FT)	EQUIVALENT FLUID PRESSURE (PCF)																	
	30 PCF						45 PCF						60 PCF					
	WALL		FOOTING				WALL		FOOTING				WALL		FOOTING			
	HORIZ REINF.	VERT REINF.	SIZE	ECC. (Inch)	REINFORCING LONG.	REINFORCING TRANS.	HORIZ REINF.	VERT REINF.	SIZE	ECC. (Inch)	REINFORCING LONG.	REINFORCING TRANS.	HORIZ REINF.	VERT REINF.	SIZE	ECC. (Inch)	REINFORCING LONG.	REINFORCING TRANS.
3'-0"	#5 @16	#4 @16	W=24 T=10	B=15	3-#5	#5 @16	#5 @16	#4 @16	W=24 T=10	B=15	3-#5	#5 @16	#5 @16	#4 @16	W=28 T=10	B=16	3-#5	#5 @16
4'-0"	#5 @16	#4 @16	W=24 T=10	B=15	3-#5	#5 @16	#5 @16	#4 @16	W=30 T=10	B=18	3-#5	#5 @16	#5 @16	#4 @16	W=34 T=10	B=20	3-#5	#5 @16
5'-0"	#5 @16	#4 @16	W=28 T=10	B=16	4-#5	#5 @16	#5 @16	#4 @16	W=34 T=10	B=20	4-#5	#5 @16	#5 @16	#5 @16	W=40 T=10	B=24	4-#5	#5 @16
6'-0"	#5 @16	#4 @12	W=34 T=10	B=20	4-#5	#5 @16	#5 @16	#4 @10	W=42 T=10	B=24	4-#5	#5 @16	#5 @16	#6 @12	W=52 T=12	B=30	4-#5	#5 @12
7'-0"	#5 @16	#5 @16	W=40 T=10	B=22	5-#5	#5 @16	#5 @16	#5 @8	W=50 T=12	B=30	5-#5	#5 @12	#5 @16	#6 @9	W=56 T=12	B=32	5-#5	#5 @12
8'-0"	#5 @16	#6 @12	W=46 T=12	B=26	5-#5	#5 @12	#5 @16	#6 @8	W=56 T=12	B=32	5-#5	#5 @12	Not Recommended					
9'-0"	#5 @16	#6 @8	W=52 T=12	B=30	6-#5	#5 @12	Not Recommended						Not Recommended					

NOTES:

1. Refer to Figures 1 and 2 for wall details, and Figure 8 for sloped slab details.
2. Minimum 28 day concrete compressive strength = 3000 psi
3. Minimum steel yield strenght = 60 ksi
4. W = width, T = Thickness
5. B = Edge distance from center of ICF wall to edge of footing.

TABLE 3: 6.25" LOGIX IN-GROUND SWIMMING POOL WALL & FOOTING REINFORCING (W/ SURCHARGE)

TABLE 3: 6" ICF IN-GROUND SWIMMING POOL WALL AND FOOTING REINFORCING (WITH SURCHARGE OF 100 PSF)																		
WALL HEIGHT (FT)	EQUIVALENT FLUID PRESSURE (PCF)																	
	30 PCF						45 PCF						60 PCF					
	WALL		FOOTING				WALL		FOOTING				WALL		FOOTING			
	HORIZ REINF.	VERT REINF.	SIZE	ECC. (Inch)	REINFORCING LONG.	REINFORCING TRANS.	HORIZ REINF.	VERT REINF.	SIZE	ECC. (Inch)	REINFORCING LONG.	REINFORCING TRANS.	HORIZ REINF.	VERT REINF.	SIZE	ECC. (Inch)	REINFORCING LONG.	REINFORCING TRANS.
3'-0"	#4 @16	#4 @16	W=24 T=10	B=15	3-#5	#5 @16	#4 @16	#4 @16	W=28 T=10	B=16	4-#5	#5 @16	#4 @16	#4 @16	W=32 T=10	B=16	4-#5	#5 @16
4'-0"	#4 @16	#4 @16	W=30 T=10	B=18	3-#5	#5 @16	#4 @16	#4 @16	W=34 T=10	B=20	4-#5	#5 @16	#4 @16	#4 @16	W=40 T=10	B=22	4-#5	#5 @16
5'-0"	#4 @16	#4 @16	W=32 T=12	B=18	4-#5	#5 @12	#4 @16	#4 @16	W=40 T=12	B=24	4-#5	#5 @12	#4 @16	#4 @10	W=46 T=12	B=28	5-#5	#5 @12
6'-0"	#4 @16	#5 @16	W=38 T=12	B=20	4-#5	#5 @12	#4 @16	#5 @16	W=46 T=12	B=28	4-#5	#5 @12	#4 @16	#5 @10	W=54 T=12	B=32	5-#5	#5 @12
7'-0"	#4 @16	#5 @10	W=44 T=12	B=24	5-#5	#5 @12	#4 @16	#5 @10	W=52 T=12	B=30	5-#5	#5 @12	#4 @16	#6 @8	W=62 T=12	B=36	5-#5	#5 @12
8'-0"	#4 @16	#6 @10	W=48 T=12	B=28	6-#5	#5 @12	#4 @16	#6 @10	W=60 T=12	B=34	6-#5	#5 @12	Not Recommended					
9'-0"	Not Recommended						Not Recommended						Not Recommended					

TABLE 4: 8" LOGIX IN-GROUND SWIMMING POOL WALL & FOOTING REINFORCING (W/ SURCHARGE)

TABLE 4: 8" ICF IN-GROUND SWIMMING POOL WALL AND FOOTING REINFORCING (WITH SURCHARGE OF 100 PSF)																		
WALL HEIGHT (FT)	EQUIVALENT FLUID PRESSURE (PCF)																	
	30 PCF						45 PCF						60 PCF					
	WALL		FOOTING				WALL		FOOTING				WALL		FOOTING			
	HORIZ REINF.	VERT REINF.	SIZE	ECC. (Inch)	REINFORCING LONG.	REINFORCING TRANS.	HORIZ REINF.	VERT REINF.	SIZE	ECC. (Inch)	REINFORCING LONG.	REINFORCING TRANS.	HORIZ REINF.	VERT REINF.	SIZE	ECC. (Inch)	REINFORCING LONG.	REINFORCING TRANS.
3'-0"	#5 @16	#4 @16	W=24 T=10	B=15	3-#5	#5 @16	#5 @16	#4 @16	W=28 T=10	B=16	4-#5	#5 @16	#5 @16	#4 @16	W=32 T=10	B=18	4-#5	#5 @16
4'-0"	#5 @16	#4 @16	W=30 T=10	B=18	3-#5	#5 @16	#5 @16	#4 @16	W=34 T=10	B=20	4-#5	#5 @16	#5 @16	#4 @16	W=40 T=10	B=22	4-#5	#5 @16
5'-0"	#5 @16	#4 @16	W=34 T=10	B=18	4-#5	#5 @16	#5 @16	#4 @12	W=42 T=10	B=24	4-#5	#5 @16	#5 @16	#4 @10	W=50 T=10	B=30	5-#5	#5 @16
6'-0"	#5 @16	#5 @16	W=40 T=12	B=22	4-#5	#5 @12	#5 @16	#5 @10	W=48 T=12	B=28	4-#5	#5 @12	#5 @16	#5 @8	W=58 T=12	B=32	5-#5	#5 @12
7'-0"	#5 @16	#5 @10	W=44 T=12	B=24	5-#5	#5 @12	#5 @16	#6 @8	W=54 T=12	B=30	5-#5	#5 @12	#5 @16	#6 @8	W=66 T=12	B=36	5-#5	#5 @12
8'-0"	#5 @16	#6 @9	W=54 T=12	B=30	6-#5	#5 @12	Not Recommended						Not Recommended					
9'-0"	Not Recommended						Not Recommended						Not Recommended					

NOTES:

1. Refer to Figures 3 and 4 for wall details, and Figure 8 for sloped slab details.
2. Minimum 28 day concrete compressive strength = 3000 psi
3. Minimum steel yield strenght = 60 ksi
4. W = width, T = Thickness
5. B = Edge distance from center of ICF wall to edge of footing.
6. A surcharge load is any heavy load placed near the pool, other than basic earth pressure, that is within a distance equal to the height of the pool walls. Use these tables in cases where frequent large gatherings or any light to heavy equipment is expected near the pool walls.

TABLE 5: 6.25" LOGIX ABOVE-GROUND SWIMMING POOL WALL &

TABLE 5: 6" ICF ABOVE GROUND SWIMMING POOL WALL AND FOOTING REINFORCING						
	EQUIVALENT FLUID PRESSURE (PCF)					
	63 PCF					
	WALL		FOOTING			
					REINFORCING	
WALL HEIGHT (FT)	HORIZ REINF.	VERTICAL REINF.	SIZE (Inch)	ECC. (Inch)	LONG.	TRANS.
3'-0"	#4 @16	#4 @16	W=30 T=10	B=13	3-#5	#5 @16
4'-0"	#4 @16	#4 @16	W=38 T=12	B=16	4-#5	#5 @12
5'-0"	#4 @16	#5 @16	W=50 T=12	B=20	5-#5	#5 @12
6'-0"	#4 @16	#6 @10	W=62 T=12	B=26	5-#5	#5 @12
7'-0"	#4 @16	#5 @6	W=70 T=12	B=30	5-#5	#5 @12
8'-0"	#4 @16	#6 @8	W=80 T=12	B=36	5-#5	#5 @12
9'-0"	Not Recommended					

TABLE 6: 8" LOGIX ABOVE-GROUND SWIMMING POOL WALL & FOOTING REINFORCING

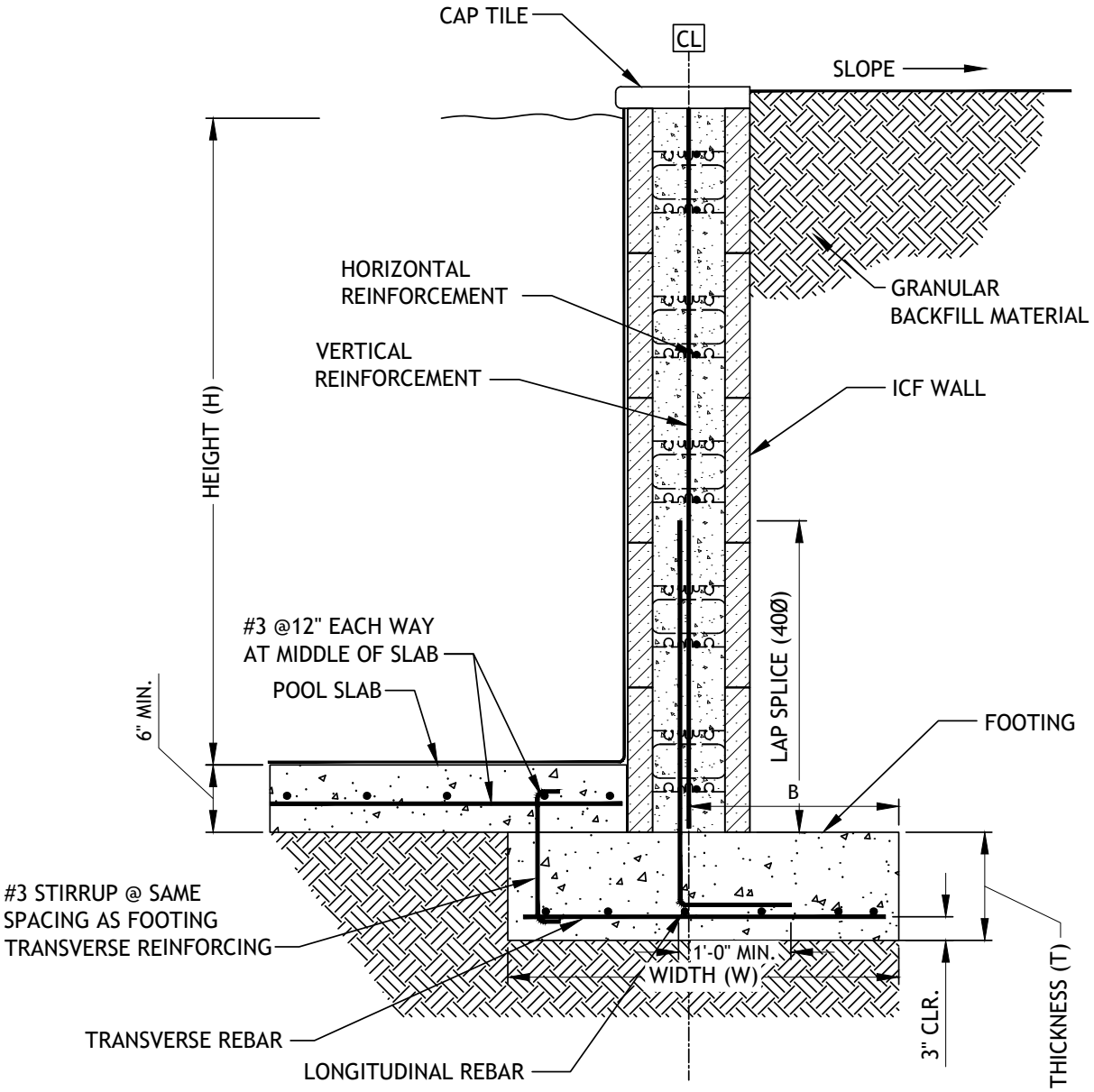
TABLE 6: 8" ICF ABOVE GROUND SWIMMING POOL WALL AND FOOTING REINFORCING						
	EQUIVALENT FLUID PRESSURE (PCF)					
	63 PCF					
	WALL		FOOTING			
					REINFORCING	
WALL HEIGHT (FT)	HORIZ REINF.	VERTICAL REINF.	SIZE (Inch)	ECC. (Inch)	LONG.	TRANS.
3'-0"	#5 @16	#4 @16	W=30 T=10	B=13	3-#5	#5 @16
4'-0"	#5 @16	#4 @16	W=38 T=12	B=16	4-#5	#5 @12
5'-0"	#5 @16	#5 @16	W=48 T=12	B=20	5-#5	#5 @12
6'-0"	#5 @16	#5 @10	W=60 T=12	B=24	5-#5	#5 @12
7'-0"	#5 @16	#6 @10	W=68 T=12	B=28	6-#5	#5 @10
8'-0"	#5 @16	#6 @8	W=78 T=12	B=32	8-#5	#5 @10
9'-0"	Not Recommended					

NOTES:

1. Refer to Figures 5 and 6 for wall details with strip footings, Figure 7 for wall details with thickened slab, and Figure 8 for sloped slab details.
2. Minimum 28 day concrete compressive strength = 3000 psi
3. Minimum steel yield strength = 60 ksi
4. W = width, T = Thickness
5. B = Edge distance from center of ICF wall to edge of footing.
6. Tables do not include surcharge loading.

LEGEND :-
CL - CENTER LINE
Ø - REBAR DIA.

NOTES :-
1. CONCRETE STRENGTH = 3 KSI MIN.
2. REBAR YIELD = 60 KSI
3. REFER TABLE 1 TO 2 FOR ALL THE PARAMETERS.

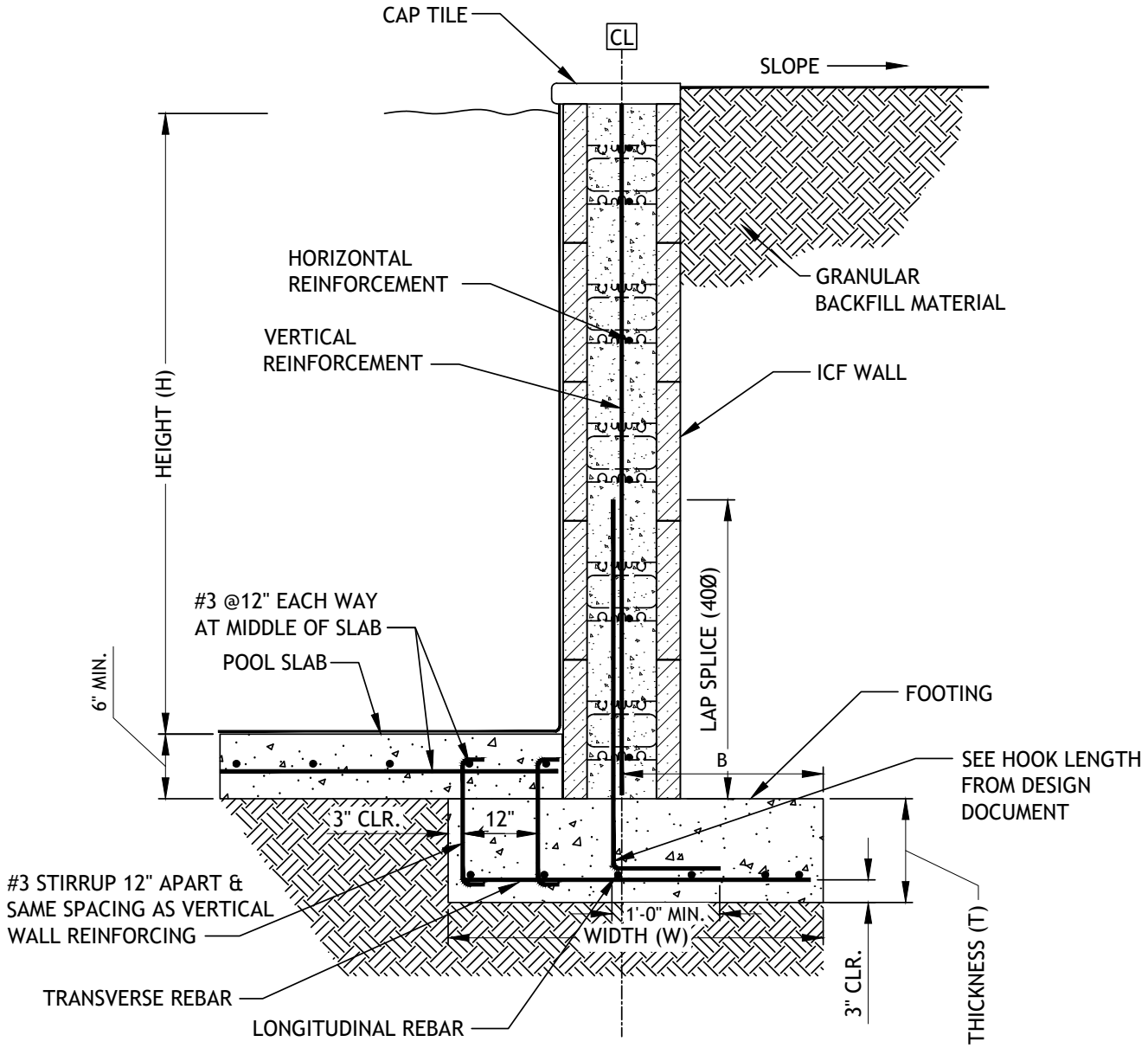


IN GROUND ICF SWIMMING POOL WALL DETAIL (W/O SURCHARGE)
SCALE: NTS
(ICF POOL HEIGHT ≤ 4'-0")

FIGURE 1: IN-GROUND POOL WALL DETAIL (W/O SURCHARGE) - HEIGHT ≤ 4'-0"

LEGEND :-
CL - CENTER LINE
Ø - REBAR DIA.

NOTES :-
1. CONCRETE STRENGTH = 3 KSI MIN.
2. REBAR YIELD = 60 KSI
3. REFER TABLE 1 TO 2 FOR ALL THE PARAMETERS.

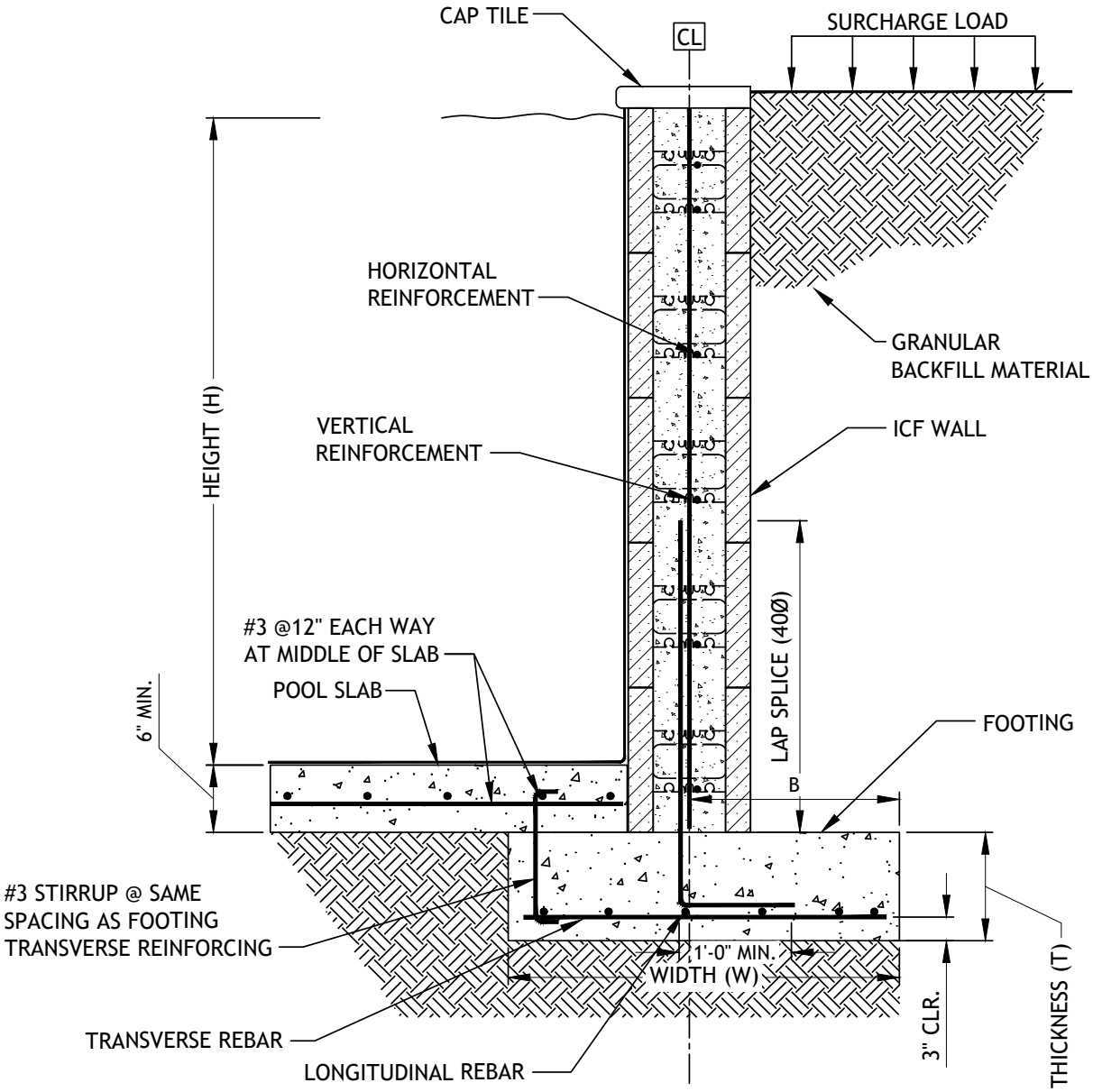


IN GROUND ICF SWIMMING POOL WALL DETAIL (W/O SURCHARGE)
SCALE: NTS
(ICF POOL HEIGHT > 4'-0")

FIGURE 2: IN-GROUND POOL WALL DETAIL (W/O SURCHARGE) - HEIGHT > 4'-0"

LEGEND :-
CL - CENTER LINE
Ø - REBAR DIA.

NOTES :-
1. CONCRETE STRENGTH = 3 KSI MIN.
2. REBAR YIELD = 60 KSI
3. REFER TABLE 3 TO 4 FOR ALL THE PARAMETERS.

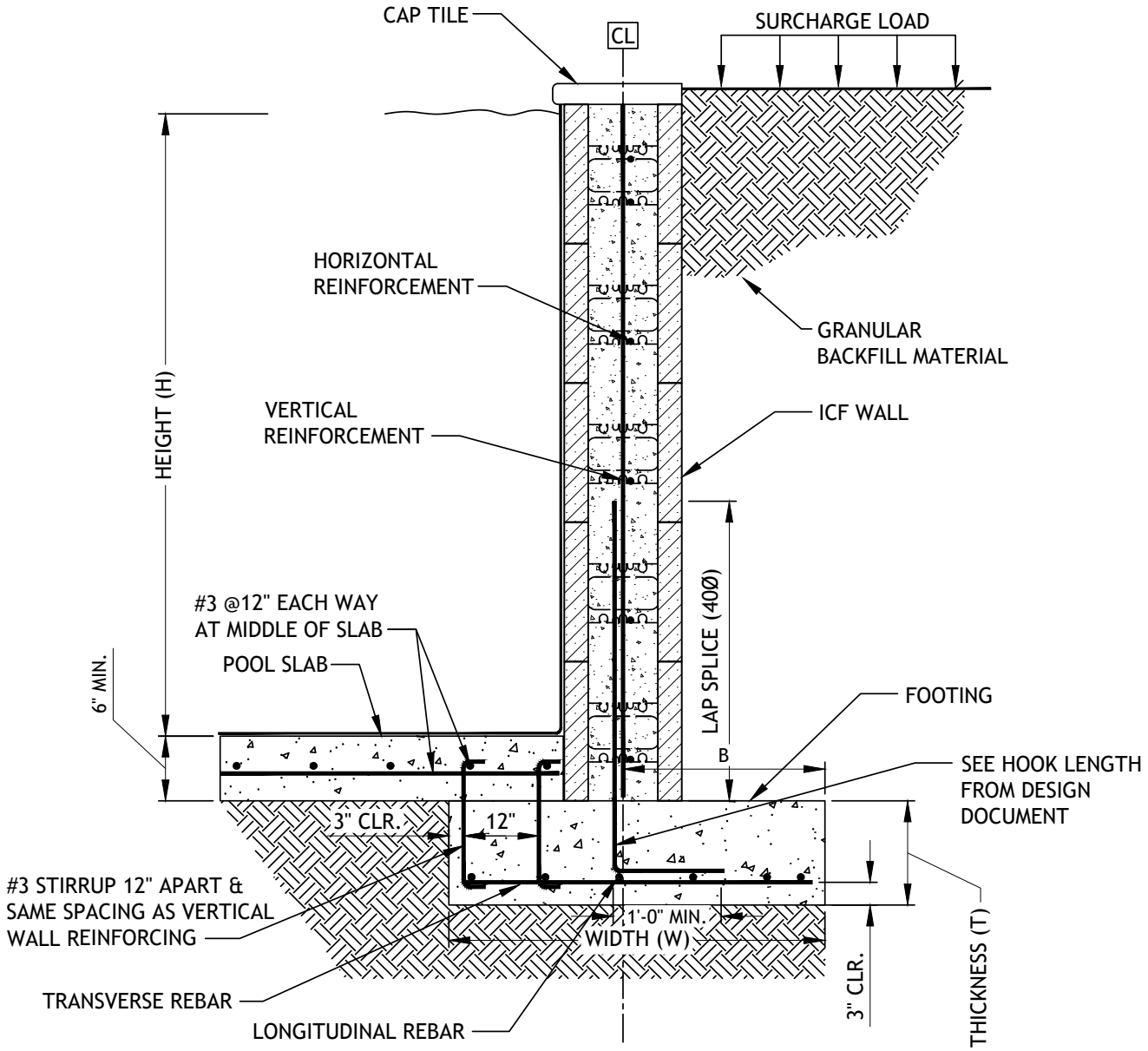


IN GROUND ICF SWIMMING POOL WALL DETAIL (W/ SURCHARGE)
SCALE: NTS
(ICF POOL HEIGHT ≤ 4'-0")

FIGURE 3: IN-GROUND POOL WALL DETAIL (W/ SURCHARGE) - HEIGHT ≤ 4'-0"

LEGEND :-
CL - CENTER LINE
Ø - REBAR DIA.

NOTES :-
1. CONCRETE STRENGTH = 3 KSI MIN.
2. REBAR YIELD = 60 KSI
3. REFER TABLE 3 TO 4 FOR ALL THE PARAMETERS.

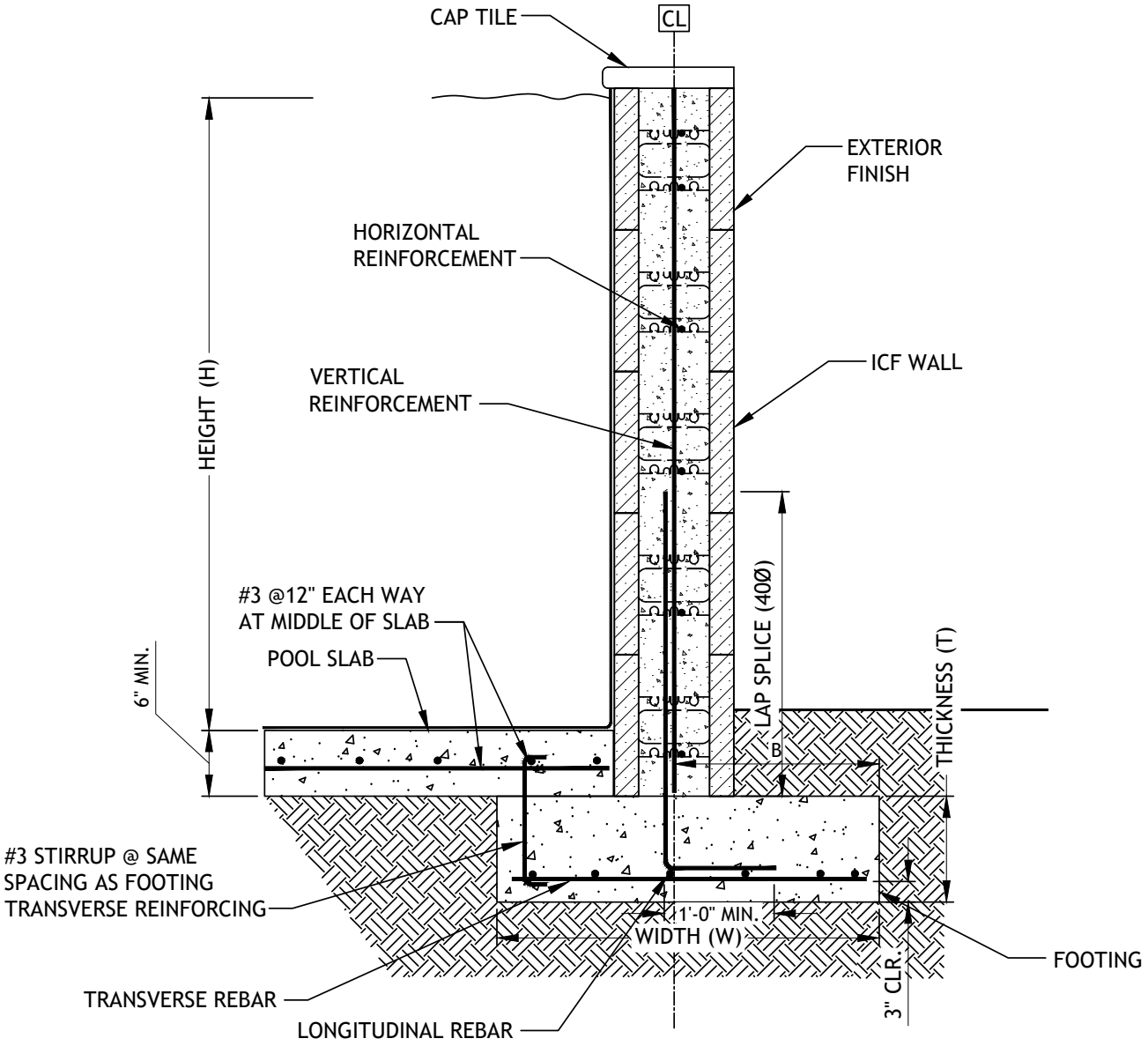


IN GROUND ICF SWIMMING POOL WALL DETAIL (W/ SURCHARGE)
SCALE: NTS
(ICF POOL HEIGHT > 4'-0")

FIGURE 4: IN-GROUND POOL WALL DETAIL (W/ SURCHARGE) - HEIGHT > 4'-0"

LEGEND :-
CL - CENTER LINE
Ø - REBAR DIA.

NOTES :-
1. CONCRETE STRENGTH = 3 KSI MIN.
2. REBAR YIELD = 60 KSI
3. REFER TABLE 5 TO 6 FOR ALL THE PARAMETERS.

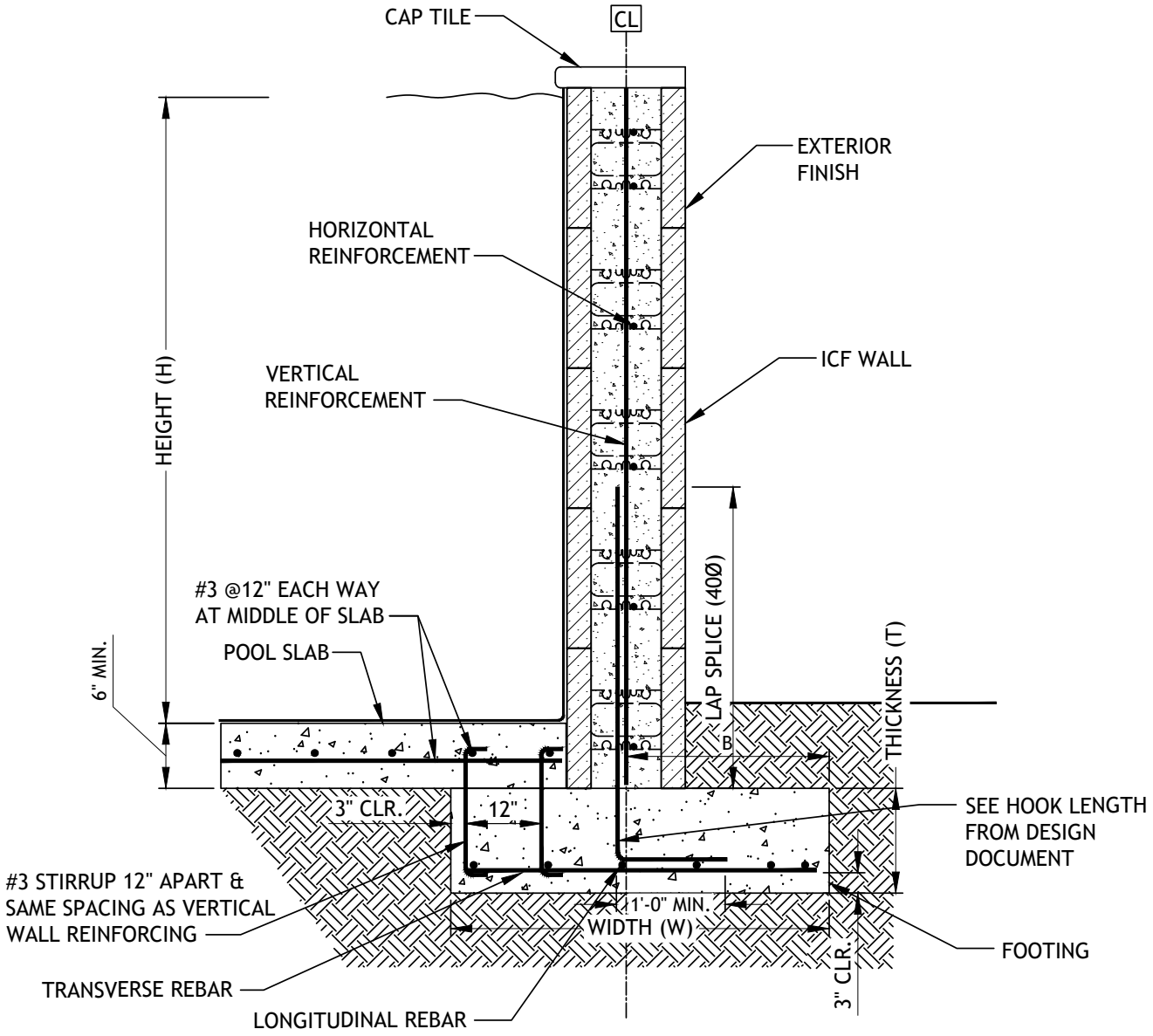


ABOVE GROUND ICF SWIMMING POOL WALL DETAIL (W/O SURCHARGE)
SCALE: NTS
(ICF POOL HEIGHT ≤ 4'-0")
(OPTION - A)

FIGURE 5: OPTION A: ABOVE-GROUND POOL WALL DETAIL - HEIGHT ≤ 4'-0"

LEGEND :-
CL - CENTER LINE
Ø - REBAR DIA.

NOTES :-
1. CONCRETE STRENGTH = 3 KSI MIN.
2. REBAR YIELD = 60 KSI
3. REFER TABLE 5 TO 6 FOR ALL THE PARAMETERS.

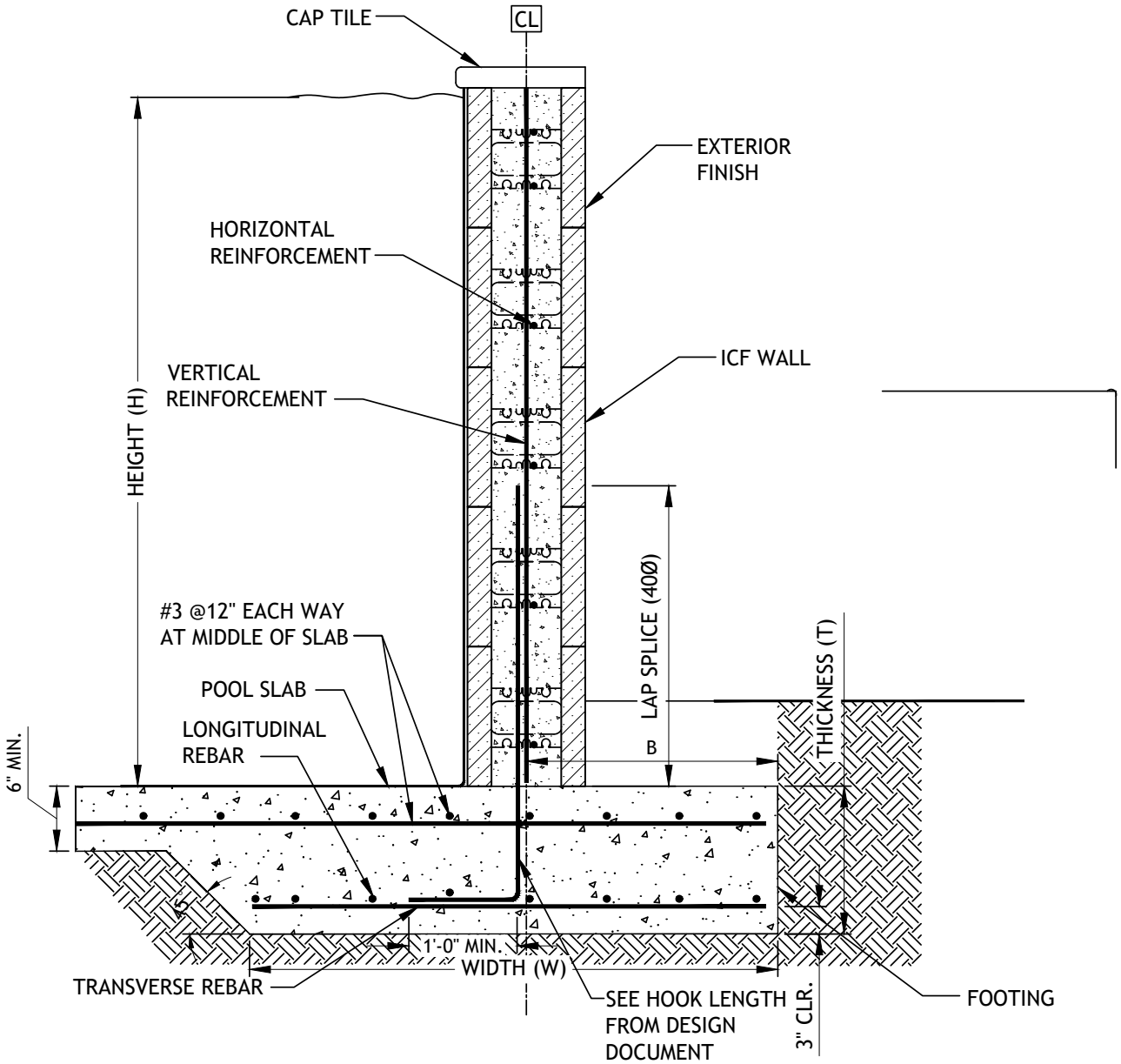


ABOVE GROUND ICF SWIMMING POOL WALL DETAIL (W/O SURCHARGE)
SCALE: NTS
(ICF POOL HEIGHT > 4'-0")
(OPTION - A)

FIGURE 6: OPTION A: ABOVE-GROUND POOL WALL DETAIL - HEIGHT > 4'-0"

LEGEND :-
CL - CENTER LINE
Ø - REBAR DIA.

NOTES :-
1. CONCRETE STRENGTH = 3 KSI MIN.
2. REBAR YIELD = 60 KSI
3. REFER TABLE 5 TO 6 FOR ALL THE PARAMETERS.

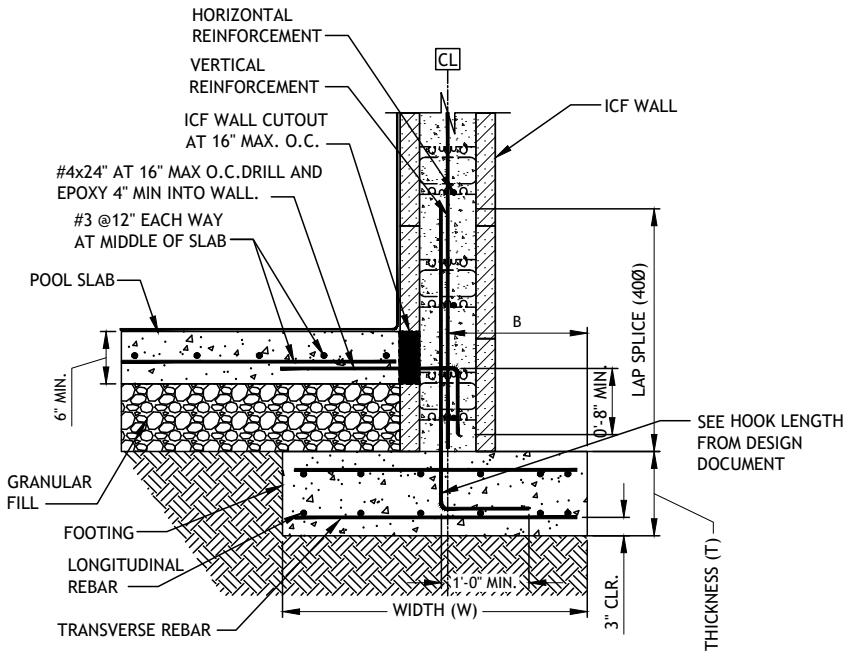


ABOVE GROUND ICF SWIMMING POOL WALL DETAIL (W/O SURCHARGE)
SCALE: NTS
(OPTION - B)

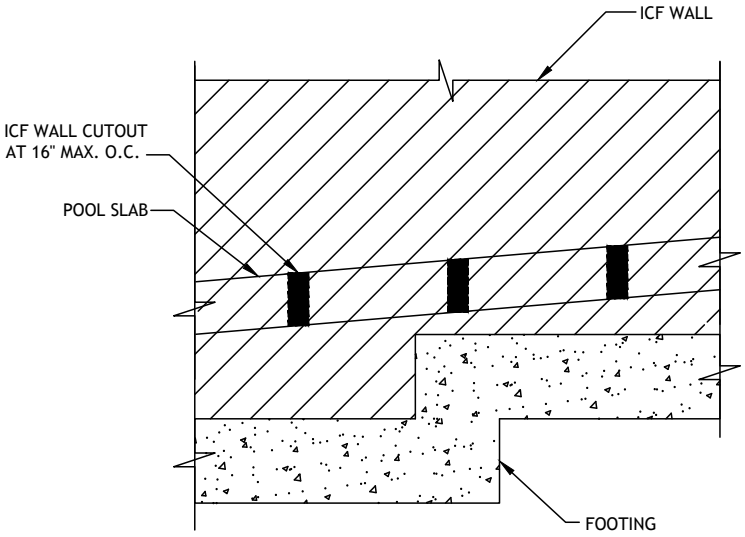
FIGURE 7: OPTION B: ABOVE-GROUND POOL WALL DETAIL

LEGEND :-
CL - CENTER LINE
Ø - REBAR DIA.

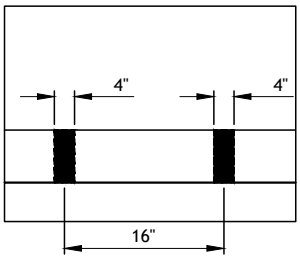
NOTES :-
1. CONCRETE STRENGTH = 3 KSI MIN.
2. REBAR YIELD = 60 KSI



SWIMMING POOL WALL AT SLOPED BASE - SECTION

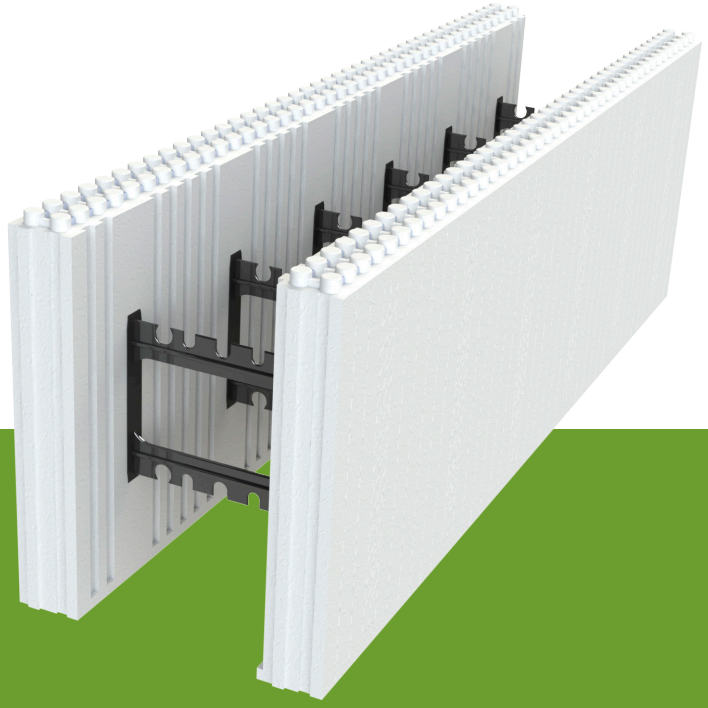


STEPPED FOOTING AND WALL AT SLOPED BASE - ELEVATION



ICF WALL CUT OUTS

FIGURE 8: WALL DETAIL AT SLOPED BASE



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