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INSUL•DECK®

STANDARD Estimating Reference Guide

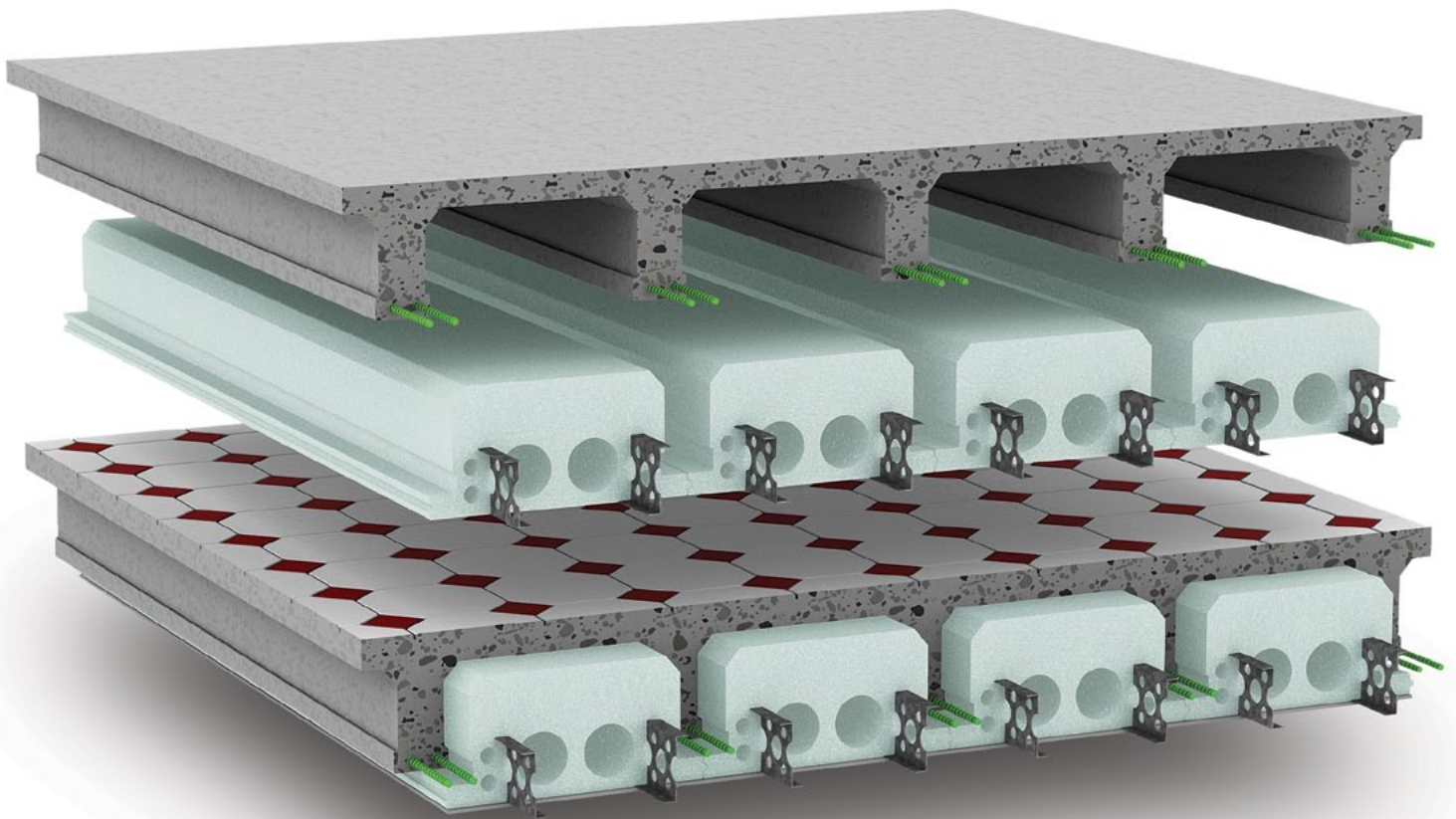


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How To Use This Insul-Deck Technical Specification Handbook

How To Use The Insul-Deck Technical Specification Handbook

- 1 Insul-Deck installations require a licensed professional engineer.
- 2 Read the *WHAT IS INSUL-DECK?* and *OTHER FLOORING SYSTEMS* sections to learn about the history of Insul-Deck and its advantages over other construction methods.
- 3 The building project and the area where it is located should be considered for any uncommon conditions that may require special attention, such as exposure to earthquakes, hurricanes, or tornados. This information will aid in determining any factors or concerns that will require specific attention.
- 4 Consult the blueprints to select the direction for placing the Insul-Deck panels. Generally the short direction is best. Consideration for other factors such as utility placement and point loading should also be noted. These decisions will determine the span of the Insul-Deck panels.
- 5 The *PRELIMINARY ESTIMATING SECTION* will then aid in determining the proper panel height to use. First read the estimating guidelines. Using these guidelines, refer to the panel charts to determine which combination of panel height, slab size, and reinforcing achieves the maximum span based on the live load conditions for the project. R-value, concrete coverage, and the total weight of the system can also be determined on these pages, along with the *GENERAL INFORMATION SECTION* for direct comparison.
- 6 In the *DETAILS SECTION* of this manual there are a series of details to aid in visualization of Insul-Deck panels in typical construction scenarios. These details do not cover every situation Insul-Deck can be used in.
- 7 For more information on estimating specialized projects or situations, contact Insul-Deck.

This information is for estimating purposes only, not for construction. The final design of a concrete structure must be completed by a licensed professional engineer.

What Is Insul-Deck?

Piero Cretti invented the Insul-Deck form system in Europe in 1978 to reduce a concrete floor's weight and increase efficiency in the building process. Insul-Deck became available in United States in 2001.

Insul-Deck is a lightweight form used to create reinforced concrete floors. This form is lightweight in two ways: first, two people can handle each form; and second, it reduces the floors weight by replacing concrete with Expanded Polystyrene (EPS), producing a T-beam shape instead of the conventional flat slab. This reduces the floors weight significantly while maintaining its strength. The Insul-Deck forms also contain two large service chases or openings to place utilities such as conduit and plumbing. Additionally, a finished ceiling can be attached directly to the Insul-Deck forms.

Insul-Deck uses a patented manufacturing process to create a reinforced concrete floor form. By using a continuous molding process, Insul-Deck is capable of providing forms with continuous metal furring strips in whatever length is requested.

Starting at the beginning of the process, Insul-Deck forms are made with Expanded Polystyrene (EPS), a petroleum-based product with excellent insulating properties. Initially EPS beads, roughly the size of a grain of sand, are delivered to our plant. We process the EPS beads with steam, expanding them to about half of their final volume, and place them in a large hopper (or mesh bag) for a day to stabilize. This is called Pre-Expanding.

Each Insul-Deck panel contains two continuous metal furring strips. These furring strips are perforated, meaning that they have holes punched in them. This will allow the Expanded Polystyrene to pass through the furring strips giving them a much stronger bond to the Expanded Polystyrene. The metal furring strips come to us in coils approximately a half-mile long. The metal coil is placed on the back of the production machine and rolled into the Z-shape prior to entering the mold. The back of the mold will slide back and grab the metal strips, then force everything forward. This leaves a six-foot gap inside the mold with only the metal strips in place. The back of the previous panel section acts as the front of the mold.

The mold is then completely filled with the half-expanded EPS, and steam is applied to the mold from the top, bottom and sides and internally by six steam pipes attached to the back of the mold. This causes the beads to expand again, this time to their full size. However, there is not enough room for the beads to fully expand inside the mold, so the beads fuse together in and around our metal strips and to the section of panel acting as the front of the mold. The tubular voids left by the steam pipes become the integrated utility chases. This process is then repeated until the desired panel length is reached, at which point it is cut to length by a large radial saw. Finally, the panels are loaded in a tractor trailer and shipped to the job site.

Because the Insul-Deck floor system is custom-made for each order, it is difficult to find other jobs that can accommodate the customized panels. For this reason, panels are not produced until we have a signed cut-list of panels to manufacture and payment is received. This also relieves you of any inventory cost that you would otherwise incur from storing our floor system.

Concrete floor design requires the use of a licensed professional engineer.

Other Flooring Systems

(How other floor systems work)

- 1 **Pre-Cast Concrete (Regular):** This is a concrete plank manufactured off-site and shipped to your job location. Because the planks are very heavy, shipping can be a problem. You will also need a crane and crew on-site just to unload and place the planks. A concrete crew is required to connect and place a topping slab. A crew is also needed to place and install insulation and/or a hanging ceiling. The advantage of this system is that you don't have to use shoring; just place the planks and go.
- 2 **Pre-Cast Concrete (Pre-Stressed):** Pre-stressed planks require the same type of work to install as regular pre-cast planks. However, the difference between this plank and the regular pre-cast plank is substantial. Pre-stressing means these planks are already under considerable load when they arrive on-site. Consequently, the planks are much thinner and considerably stronger than regular planks. In other words, they have increased span and load-carrying capabilities.
- 3 **Pre-Cast Concrete (Post-Tensioned):** This style is much the same as pre-stressed planks. The difference is that tensioning cables will be placed and torqued on the job, which compresses the concrete planks and creates similar span and load-carrying capabilities as the pre-stressed. Post-tensioning also requires the use of a certified post-tensioning contractor to compress the planks properly.
- 4 **Open Web Steel Joist and Concrete Slabs:** This system uses metal joist embedded into a thin concrete slab. To construct this system, first pour the walls and let them set up. Next attach the metal joists and anchor them to the walls, which will probably require using a crane and its crew. Then install the form for the concrete. Forms can be metal plates bolted, welded to, or even sheets of plywood hung from the top of the trusses. Once the forms have been placed, a couple of inches of concrete are poured on top of them. After the concrete has cured, the forms are removed if necessary and a hanging ceiling and/or insulation are placed.
- 5 **Conventional Cast-in-Place Floor:** First set up your shoring. Next place the floor form (generally plywood or metal plates). Then install the rebar and pour the concrete slab.
- 6 **Cast in Place (Post-Tensioned):** This system is the same as conventional cast-in-place concrete with a few minor changes. Tensioning cables are also placed in the concrete and tightened within a few days. The major advantages over conventional cast-in-place are the lower floor thickness, higher load capabilities and earlier removal of shoring.
- 7 **Wood Frame:** This is the most popular method of building in the U.S., and it requires a carpentry crew. The wood frame floor style is the least expensive and easiest to modify, however it generally isn't built to withstand the same conditions and doesn't possess the same properties as concrete floors. Carpenters frame up the floor, and then you need to add insulation and hang a ceiling. Keep in mind that the lumber supply is starting to dwindle and its quality is starting to suffer as well, generally because the greener lumber being sold hasn't had enough time to age, which would make it stiffer or harder. With greener lumber, the floor will start making noises when you walk on it. It can also lead to warping or twisting of the wood planks. Also, precautions must be taken to protect wood floors, as they are prone to mold, termites and decay from water damage.

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Preliminary Estimating Section

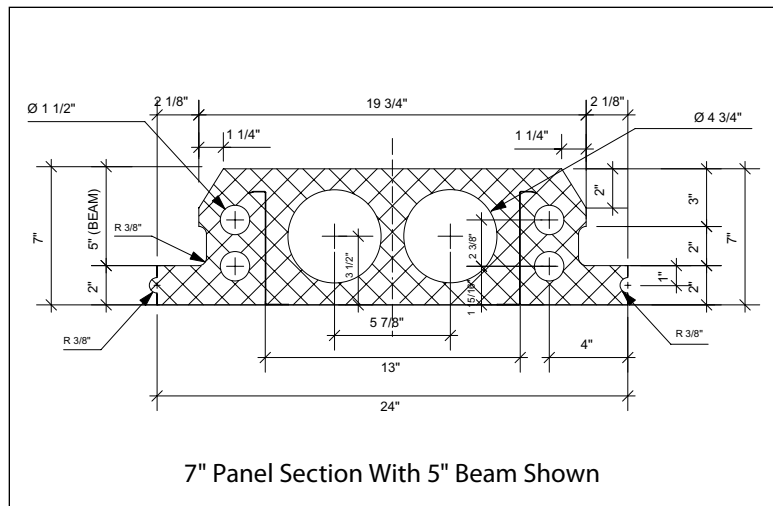
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Estimating Guidelines

- 1 Insul-Deck forms are used to create a reinforced concrete floor. This type of floor must be designed by a licensed professional engineer in accordance with all applicable codes and laws.
- 2 Information contained in these tables is for estimating purposes only.
- 3 The information also only relates to the bending and deflection of the floor system.
- 4 Issues that your local engineer of record will need to consider include: connections to the wall, shear reinforcing, negative moment reinforcing and any other local environmental conditions like earthquake and hurricane zones.
- 5 Insul-Deck panels are just a form and can be removed after the concrete has cured if needed. They do not provide structural support after the shoring has been removed. Fire resistance will come from the concrete itself and any fire barrier that is attached to the Insul-Deck panels.
- 6 Insul-Deck is available these standard sizes 7", 8", 9", 10", 11", 12", 12-1/2" overall thickness including a 2" thick bottom wing.
- 7 All spans are considered from center of support to center of support.
- 8 Insul-Deck forms must be supported by an adequate shoring system designed by a licensed professional engineer using ACI 347 "Guide to Formwork for Concrete." Do not remove the shoring until the concrete has reached its desired compressive strength or you have the consent of the engineer of record. In general, Insul-Deck recommends that shoring beams be placed no further than 6 feet apart and a shoring support is within 6 inches of the wall.
- 9 The information contained in these tables does not replace professional engineering judgment.
- 10 Every effort has been made to ensure that this information is correct and accurate; however, INSUL-DECK LLC is not responsible for misuse or misrepresentation of this information or improper installation in the field.

7 Inch Panel

Max span – 4000 psi concrete (2 - #7 rebar bottom and 1 - #6 rebar top)			
Live Load	Slab Height		
	2"	3"	4"
20	23'	25'	28'
40	21'	23'	26'
100	12'	14'	15'



2" SLAB (based on 3000 psi concrete, higher PSI concrete can increase span)

Live Load	Span (Feet)													
	10	11	12	13	14	15	16	17	18	19	20	21	22	23
20 psf	1 - #4	1 - #4	1 - #4	1 - #4	1 - #4	1 - #4	1 - #6	2 - #5	2 - #6					
40 psf	1 - #4	1 - #4	1 - #4	1 - #4	1 - #5	1 - #6	2 - #5	2 - #6						
100 psf	1 - #4	1 - #4	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ 100 PSF live load span can be increased by adding stirrups.

3" SLAB (based on 3000 psi concrete, higher PSI concrete can increase span)

Live Load	Span (Feet)													
	10	11	12	13	14	15	16	17	18	19	20	21	22	23
20 psf	1 - #4	1 - #4	1 - #4	1 - #4	1 - #4	1 - #4	1 - #5	2 - #5	2 - #5	2 - #6	2 - #6			
40 psf	1 - #4	1 - #4	1 - #4	1 - #4	1 - #5	1 - #5	2 - #5	2 - #5	2 - #6	2 - #6				
100 psf	1 - #4	1 - #5	1 - #5	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ 100 PSF live load span can be increased by adding stirrups.

4" SLAB (based on 3000 psi concrete, higher PSI concrete can increase span)

Live Load	Span (Feet)													
	10	11	12	13	14	15	16	17	18	19	20	21	22	23
20 psf	1 - #4	1 - #4	1 - #4	1 - #4	1 - #4	1 - #4	1 - #5	1 - #5	1 - #5	1 - #5	1 - #6	1 - #6	2 - #6	
40 psf	1 - #4	1 - #4	1 - #4	1 - #4	1 - #5	1 - #5	1 - #5	1 - #5	1 - #6	1 - #6	1 - #6	2 - #6		
100 psf	1 - #4	1 - #5	1 - #5	1 - #5	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ 100 PSF live load span can be increased by adding stirrups.

R-value: R16

Concrete coverage – Square feet per cubic yard**

Slab Size	2"	3"	4"	5"
Sq Ft	106	80	64	53

** To calculate cubic yardage, divide the total square footage of Insul-Deck by the number shown in the chart.

Floor Weight – PSF

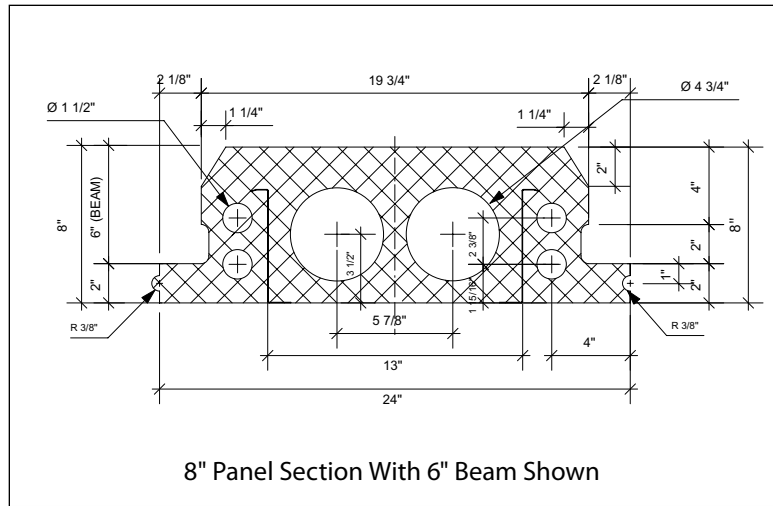
Slab Size	2"	3"	4"	5"
PSF	46	58	71	83

These estimated weights include the combined weight of panel, concrete, rebar, and miscellaneous.

These tables are for estimating purposes only, not for construction. The final design of a concrete structure must be completed by a licensed professional engineer.

8 Inch Panel

Max span – 4000 psi concrete (2 - #7 rebar bottom and 1 - #6 rebar top)			
Live Load	Slab Height		
	2"	3"	4"
20	25'	27'	29'
40	23'	25'	25'
100	14'	15'	16'



2" SLAB (based on 3000 psi concrete, higher PSI concrete can increase span)

Live Load	Span (Feet)													
	11	12	13	14	15	16	17	18	19	20	21	22	23	24
20 psf	1 - #4	1 - #4	1 - #4	1 - #4	1 - #4	1 - #4	1 - #5	2 - #5	2 - #5	2 - #6	2 - #6			
40 psf	1 - #4	1 - #4	1 - #4	1 - #4	1 - #5	1 - #6	2 - #5	2 - #5	2 - #6					
100 psf	1 - #5	1 - #5	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ 100 PSF live load span can be increased by adding stirrups.

3" SLAB (based on 3000 psi concrete, higher PSI concrete can increase span)

Live Load	Span (Feet)													
	11	12	13	14	15	16	17	18	19	20	21	22	23	24
20 psf	1 - #4	1 - #4	1 - #4	1 - #4	1 - #4	1 - #4	1 - #5	1 - #5	1 - #6	2 - #5	2 - #6	2 - #6		
40 psf	1 - #4	1 - #4	1 - #4	1 - #4	1 - #5	1 - #5	1 - #5	1 - #6	2 - #6	2 - #6				
100 psf	1 - #4	1 - #5	1 - #5	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ 100 PSF live load span can be increased by adding stirrups.

4" SLAB (based on 3000 psi concrete, higher PSI concrete can increase span)

Live Load	Span (Feet)													
	11	12	13	14	15	16	17	18	19	20	21	22	23	24
20 psf	1 - #4	1 - #4	1 - #4	1 - #4	1 - #4	1 - #4	1 - #5	1 - #5	1 - #5	1 - #5	2 - #6	2 - #6	2 - #6	2 - #6
40 psf	1 - #4	1 - #4	1 - #4	1 - #4	1 - #5	1 - #5	1 - #5	1 - #5	1 - #6	1 - #6	2 - #6	2 - #6		
100 psf	1 - #4	1 - #5	1 - #5	1 - #5	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ 100 PSF live load span can be increased by adding stirrups.

R-value: R19

Concrete coverage – Square feet per cubic yard**

Slab Size	2"	3"	4"	5"
Sq Ft	100	77	62	52

** To calculate cubic yardage, divide the total square footage of Insul-Deck by the number shown in the chart.

Floor Weight – PSF

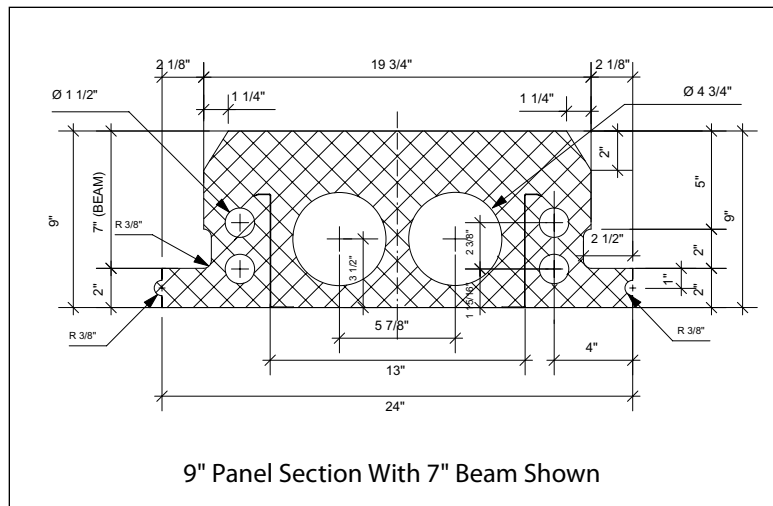
Slab Size	2"	3"	4"	5"
PSF	48	60	73	85

These estimated weights include the combined weight of panel, concrete, rebar, and miscellaneous.

These tables are for estimating purposes only, not for construction. The final design of a concrete structure must be completed by a licensed professional engineer.

9 Inch Panel

Max span – 4000 psi concrete (2 - #7 rebar bottom and 1 - #6 rebar top)			
Live Load	Slab Height		
	2"	3"	4"
20	27'	29'	30'
40	25'	26'	28'
100	16'	17'	17'



2" SLAB (based on 3000 psi concrete, higher PSI concrete can increase span)

Live Load	Span (Feet)													
	12	13	14	15	16	17	18	19	20	21	22	23	24	25
20 psf	1 - #4	1 - #4	1 - #4	1 - #4	1 - #4	1 - #4	1 - #5	1 - #6	2 - #5	2 - #5	2 - #6			
40 psf	1 - #4	1 - #4	1 - #4	1 - #4	1 - #5	1 - #5	1 - #6	2 - #5	2 - #6					
100 psf	1 - #5	1 - #5	1 - #6	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ 100 PSF live load span can be increased by adding stirrups.

3" SLAB (based on 3000 psi concrete, higher PSI concrete can increase span)

Live Load	Span (Feet)													
	12	13	14	15	16	17	18	19	20	21	22	23	24	25
20 psf	1 - #4	1 - #4	1 - #4	1 - #4	1 - #4	1 - #4	1 - #5	1 - #5	1 - #5	1 - #6	2 - #6	2 - #6		
40 psf	1 - #4	1 - #4	1 - #4	1 - #5	1 - #5	1 - #5	1 - #5	1 - #6	2 - #5	2 - #6	2 - #6			
100 psf	1 - #5	1 - #5	1 - #5	1 - #6	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ 100 PSF live load span can be increased by adding stirrups.

4" SLAB (based on 3000 psi concrete, higher PSI concrete can increase span)

Live Load	Span (Feet)													
	12	13	14	15	16	17	18	19	20	21	22	23	24	25
20 psf	1 - #4	1 - #4	1 - #4	1 - #4	1 - #4	1 - #4	1 - #5	1 - #5	1 - #5	1 - #5	1 - #6	1 - #6	1 - #6	2 - #6
40 psf	1 - #4	1 - #4	1 - #4	1 - #4	1 - #5	1 - #5	1 - #5	1 - #6	2 - #6	1 - #6	1 - #6	2 - #6	2 - #6	
100 psf	1 - #5	1 - #5	1 - #5	1 - #5	1 - #6	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ 100 PSF live load span can be increased by adding stirrups.

R-value: R22

Concrete coverage – Square feet per cubic yard**

Slab Size	2"	3"	4"	5"
Sq Ft	95	73	60	51

** To calculate cubic yardage, divide the total square footage of Insul-Deck by the number shown in the chart.

Floor Weight – PSF

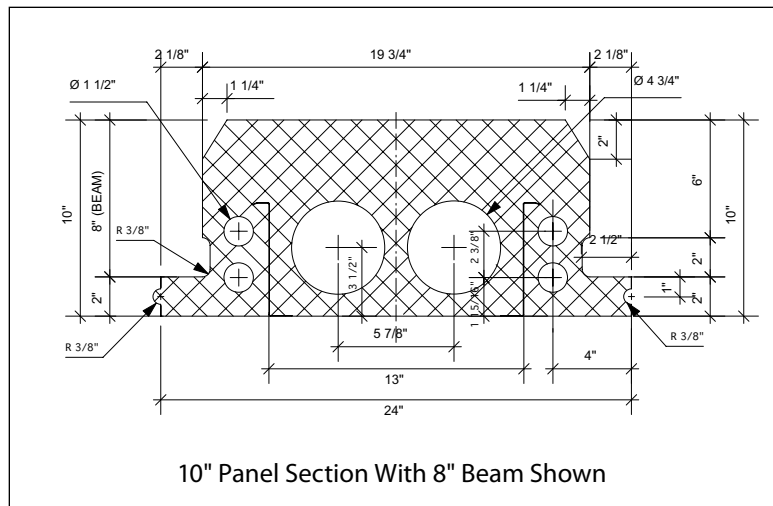
Slab Size	2"	3"	4"	5"
PSF	50	63	75	88

These estimated weights include the combined weight of panel, concrete, rebar, and miscellaneous.

These tables are for estimating purposes only, not for construction. The final design of a concrete structure must be completed by a licensed professional engineer.

10 Inch Panel

Max span – 4000 psi concrete (2 - #7 rebar bottom and 1 - #6 rebar top)			
Live Load	Slab Height		
	2"	3"	4"
20	29'	30'	32'
40	27'	28'	30'
100	18'	19'	20'



10" Panel Section With 8" Beam Shown

2" SLAB (based on 3000 psi concrete, higher PSI concrete can increase span)

Live Load	Span (Feet)													
	13	14	15	16	17	18	19	20	21	22	23	24	25	26
20 psf	1 - #4	1 - #4	1 - #4	1 - #4	1 - #4	1 - #4	1 - #5	1 - #5	1 - #6	2 - #5	2 - #5	2 - #6		
40 psf	1 - #4	1 - #4	1 - #4	1 - #4	1 - #5	1 - #5	1 - #5	1 - #6	2 - #5	2 - #6				
100 psf	1 - #5	1 - #5	1 - #5	1 - #6	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ 100 PSF live load span can be increased by adding stirrups.

3" SLAB (based on 3000 psi concrete, higher PSI concrete can increase span)

Live Load	Span (Feet)													
	13	14	15	16	17	18	19	20	21	22	23	24	25	26
20 psf	1 - #4	1 - #4	1 - #4	1 - #4	1 - #4	1 - #4	1 - #5	1 - #5	1 - #5	1 - #6	2 - #6	2 - #6	2 - #6	
40 psf	1 - #4	1 - #4	1 - #4	1 - #4	1 - #4	1 - #4	1 - #5	1 - #6	2 - #5	2 - #6	2 - #6			
100 psf	1 - #5	1 - #5	1 - #5	1 - #6	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ 100 PSF live load span can be increased by adding stirrups.

4" SLAB (based on 3000 psi concrete, higher PSI concrete can increase span)

Live Load	Span (Feet)													
	13	14	15	16	17	18	19	20	21	22	23	24	25	26
20 psf	1 - #4	1 - #4	1 - #4	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #6	2 - #6	2 - #6	2 - #6
40 psf	1 - #4	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #6	1 - #6	1 - #6	2 - #6	2 - #6	2 - #6	
100 psf	1 - #5	1 - #5	1 - #5	1 - #6	1 - #6	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ 100 PSF live load span can be increased by adding stirrups.

R-value: R25

Concrete coverage – Square feet per cubic yard**

Slab Size	2"	3"	4"	5"
Sq Ft	90	71	58	49

** To calculate cubic yardage, divide the total square footage of Insul-Deck by the number shown in the chart.

Floor Weight – PSF

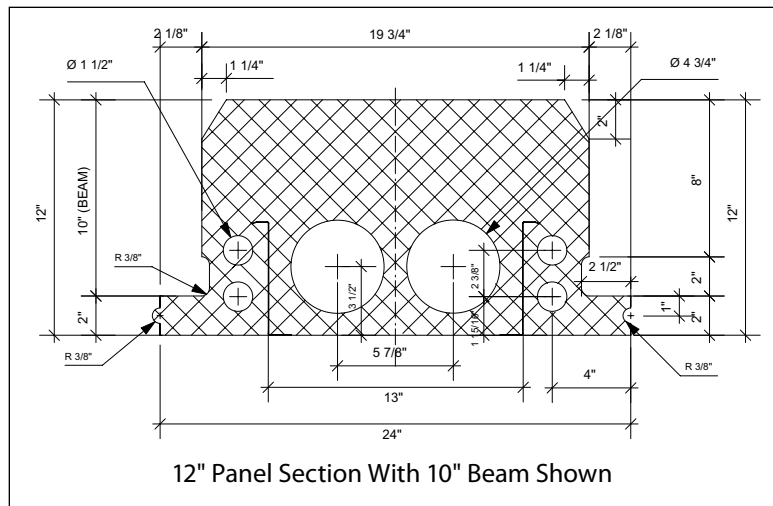
Slab Size	2"	3"	4"	5"
PSF	52	65	77	90

These estimated weights include the combined weight of panel, concrete, rebar, and miscellaneous.

These tables are for estimating purposes only, not for construction. The final design of a concrete structure must be completed by a licensed professional engineer.

12 Inch Panel

Max span – 4000 psi concrete (2 - #7 rebar bottom and 1 - #6 rebar top)			
Live Load	Slab Height		
	2"	3"	4"
20	32'	33'	34'
40	30'	31'	32'
100	21'	22'	22'



12" Panel Section With 10" Beam Shown

2" SLAB (based on 3000 psi concrete, higher PSI concrete can increase span)

Live Load	Span (Feet)													
	16	17	18	19	20	21	22	23	24	25	26	27	28	29
20 psf	1 - #4	1 - #4	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #6	2 - #5	2 - #6	2 - #6		
40 psf	1 - #4	1 - #4	1 - #5	1 - #5	1 - #5	1 - #5	1 - #6	2 - #5	2 - #5	2 - #6				
100 psf	1 - #5	1 - #6	1 - #6	1 - #6	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ 100 PSF live load span can be increased by adding stirrups.

3" SLAB (based on 3000 psi concrete, higher PSI concrete can increase span)

Live Load	Span (Feet)													
	16	17	18	19	20	21	22	23	24	25	26	27	28	29
20 psf	1 - #4	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	2 - #6	2 - #6	2 - #6		
40 psf	1 - #4	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #6	1 - #6	2 - #5	2 - #6	2 - #6			
100 psf	1 - #6	1 - #6	1 - #6	1 - #6	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ 100 PSF live load span can be increased by adding stirrups.

4" SLAB (based on 3000 psi concrete, higher PSI concrete can increase span)

Live Load	Span (Feet)													
	16	17	18	19	20	21	22	23	24	25	26	27	28	29
20 psf	1 - #4	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #6	1 - #6	2 - #6	2 - #6	2 - #6	2 - #6
40 psf	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #6	1 - #6	1 - #6	2 - #6	2 - #6	2 - #6		
100 psf	1 - #5	1 - #6	1 - #6	1 - #6	1 - #6	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ 100 PSF live load span can be increased by adding stirrups.

R-value: R32

Concrete coverage – Square feet per cubic yard**

Slab Size	2"	3"	4"	5"
Sq Ft	82	66	55	47

** To calculate cubic yardage, divide the total square footage of Insul-Deck by the number shown in the chart.

Floor Weight – PSF

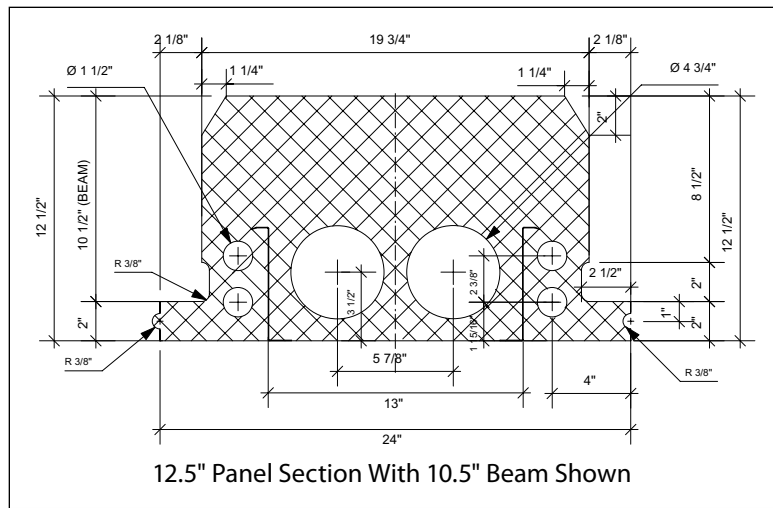
Slab Size	2"	3"	4"	5"
PSF	57	69	82	94

These estimated weights include the combined weight of panel, concrete, rebar, and miscellaneous.

These tables are for estimating purposes only, not for construction. The final design of a concrete structure must be completed by a licensed professional engineer.

12.5 Inch Panel

Max span – 4000 psi concrete (2 - #7 rebar bottom and 1 - #6 rebar top)			
Live Load	Slab Height		
	2"	3"	4"
20	33'	33'	35'
40	31'	31'	33'
100	22'	22'	23'



2" SLAB (based on 3000 psi concrete, higher PSI concrete can increase span)

Live Load	Span (Feet)													
	17	18	19	20	21	22	23	24	25	26	27	28	29	30
20 psf	1 - #4	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #6	2 - #5	2 - #6	2 - #6		
40 psf	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #6	2 - #5	2 - #6	2 - #6				
100 psf	1 - #6	1 - #6	1 - #6	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ 100 PSF live load span can be increased by adding stirrups.

3" SLAB (based on 3000 psi concrete, higher PSI concrete can increase span)

Live Load	Span (Feet)													
	17	18	19	20	21	22	23	24	25	26	27	28	29	30
20 psf	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #6	1 - #6	1 - #6	1 - #6	2 - #5	2 - #6	2 - #6		
40 psf	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #6	1 - #6	2 - #5	2 - #6	2 - #6	2 - #6			
100 psf	1 - #5	1 - #6	1 - #6	1 - #6	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ 100 PSF live load span can be increased by adding stirrups.

4" SLAB (based on 3000 psi concrete, higher PSI concrete can increase span)

Live Load	Span (Feet)													
	17	18	19	20	21	22	23	24	25	26	27	28	29	30
20 psf	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #6	1 - #6	2 - #6	2 - #6	2 - #6	2 - #6
40 psf	1 - #5	1 - #5	1 - #5	1 - #5	1 - #5	1 - #6	1 - #6	1 - #6	1 - #6	1 - #6	2 - #6	2 - #6		
100 psf	1 - #5	1 - #6	1 - #6	1 - #6	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ 100 PSF live load span can be increased by adding stirrups.

R-value: R33

Concrete coverage – Square feet per cubic yard**

Slab Size	2"	3"	4"	5"
Sq Ft	80	64	54	46

** To calculate cubic yardage, divide the total square footage of Insul-Deck by the number shown in the chart.

Floor Weight – PSF

Slab Size	2"	3"	4"	5"
PSF	58	70	83	95

These estimated weights include the combined weight of panel, concrete, rebar, and miscellaneous.

These tables are for estimating purposes only, not for construction. The final design of a concrete structure must be completed by a licensed professional engineer.

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General Information Section

Estimated Thermal Resistance (R-value)

	Panel Thickness (Inches)						
	7"	8"	9"	10"	11"	12"	12.5"
R-value	16	19	22	25	28	32	33

Note: These values are a weighted average of the R-value taken across a single Insul-Deck panel and are rounded to the nearest whole number.

Concrete Coverage Chart (Sq Ft Covered Per Cubic Yard)**

Panel Thickness (Inches)	Concrete Thickness (Inches)			
	2"	3"	4"	5"
7"	106	80	64	53
8"	100	77	62	52
9"	95	73	60	51
10"	90	71	58	49
11"	86	68	56	48
12"	82	66	55	47
12.5"	80	64	54	46

Note: Actual concrete coverage will vary depending on the accuracy of finished floor thickness.

** To calculate cubic yardage, divide the total square footage of Insul-Deck by the number shown in the chart.

Estimated Floor Weight (PSF)

Panel Thickness (Inches)	Concrete Thickness (Inches)			
	2"	3"	4"	5"
7"	46	58	71	83
8"	48	60	73	85
9"	50	63	75	88
10"	52	65	77	90
11"	54	67	79	92
12"	57	69	82	94
12.5"	58	70	83	95

Note: These weights are for estimating purposes only. The actual weight will vary depending on the finished floor and ceiling.

Note: These weights include the concrete, reinforcing, panel, and miscellaneous (5 psf).

These tables are for estimating purposes only, not for construction. The final design of a concrete structure must be completed by a licensed professional engineer.

Details Section

SCHEDULE OF DETAILS

INS-000	SCHEDULE OF DETAILS
INS-001	INSUL-DECK 7" PANEL DIMENSIONS
INS-002	INSUL-DECK 8" PANEL DIMENSIONS
INS-003	INSUL-DECK 9" PANEL DIMENSIONS
INS-004	INSUL-DECK 10" PANEL DIMENSIONS
INS-005	INSUL-DECK 11" PANEL DIMENSIONS
INS-006	INSUL-DECK 12" PANEL DIMENSIONS
INS-007	INSUL-DECK 12.5" AND INSUL-DECK 3" TOP HAT PANEL DIMENSIONS
INS-008	TRANSVERSE SECTION @ 'ICF' WALL-TO-FLOOR CONNECTION
INS-009	TRANSVERSE SECTION @ 'ICF' WALL-TO-FLOOR CONNECTION (ALTERNATE)
INS-010	LONGITUDINAL SECTION @ 'ICF' WALL-TO-FLOOR CONNECTION
INS-011	LONGITUDINAL SECTION @ 'ICF' WALL-TO-FLOOR CONNECTION (ALTERNATE)
INS-012	TRANSVERSE SECTION @ INTERNAL 'ICF' WALL-TO-FLOOR CONNECTION
INS-013	LONGITUDINAL SECTION @ INTERNAL 'ICF' WALL-TO-FLOOR CONNECTION
INS-014	TYPICAL TRANSVERSE SECTION OF FLOOR SYSTEM
INS-015	TRANSVERSE SECTION @ 'CMU' WALL-TO-FLOOR CONNECTION
INS-016	LONGITUDINAL SECTION @ 'CMU' WALL-TO-FLOOR CONNECTION
INS-017	TRANSVERSE SECTION @ INTERNAL 'CMU' WALL-TO-FLOOR CONNECTION
INS-018	LONGITUDINAL SECTION @ INTERNAL 'CMU' WALL-TO-FLOOR CONNECTION
INS-019	TRANSVERSE SECTION @ CONCRETE WALL-TO-FLOOR CONNECTION
INS-020	LONGITUDINAL SECTION @ CONCRETE WALL-TO-FLOOR CONNECTION
INS-021	TRANSVERSE SECTION @ FLUSH CONCRETE BEAM CONNECTION
INS-022	LONGITUDINAL SECTION @ FLUSH CONCRETE BEAM CONNECTION
INS-023	TRANSVERSE SECTION @ DROPPED CONCRETE BEAM CONNECTION
INS-024	LONGITUDINAL SECTION @ DROPPED CONCRETE BEAM CONNECTION
INS-025	TRANSVERSE SECTION @ PORCH PERIMETER BEAM CONNECTION
INS-026	LONGITUDINAL SECTION @ PORCH PERIMETER BEAM CONNECTION
INS-027	TRANSVERSE SECTION @ DROPPED STEEL BEAM CONNECTION
INS-028	LONGITUDINAL SECTION @ DROPPED STEEL BEAM CONNECTION
INS-029	SECTIONS @ DROPPED STEEL BEAM CONNECTION (ALTERNATE)
INS-030	TRANSVERSE SECTION @ FLUSH STEEL BEAM CONNECTION
INS-031	LONGITUDINAL SECTION @ FLUSH STEEL BEAM CONNECTION
INS-032	TRANSVERSE SECTION @ PARTIAL DROPPED STEEL BEAM CONNECTION
INS-033	LONGITUDINAL SECTION @ PARTIAL DROPPED STEEL BEAM CONNECTION
INS-034	TRANSVERSE SECTION @ PORCH PERIMETER WITH FLUSH STEEL BEAM CONNECTION
INS-035	LONGITUDINAL SECTION @ PORCH PERIMETER WITH FLUSH STEEL BEAM CONNECTION
INS-036	TRANSVERSE SECTION @ PORCH PERIMETER WITH DROPPED STEEL BEAM CONNECTION
INS-037	LONGITUDINAL SECTION @ PORCH PERIMETER WITH DROPPED STEEL BEAM CONNECTION
INS-038	TRANSVERSE SECTION @ PERIMETER BEAM WITH SUPPORTING COLUMN CONNECTION
INS-039	LONGITUDINAL SECTION @ PERIMETER BEAM WITH SUPPORTING COLUMN CONNECTION
INS-040	TRANSVERSE CROSS RIB OR CROSS BEAM
INS-041	TRANSVERSE SECTION @ STAIRWELL PENETRATION
INS-042	LONGITUDINAL SECTION @ STAIRWELL PENETRATION
INS-043	SECTIONS @ DUCT PENETRATION
INS-044	INSUL-DECK SOFFIT OVERHANG WITH 'ICF' WALL SYSTEM
INS-045	CONCRETE SOFFIT OVERHANG WITH 'ICF' WALL SYSTEM
INS-046	CONCRETE RAKE OR GABLE END OVERHANG WITH 'ICF' WALL SYSTEM
INS-047	METAL INSERT (FURRING STRIP) PROFILE

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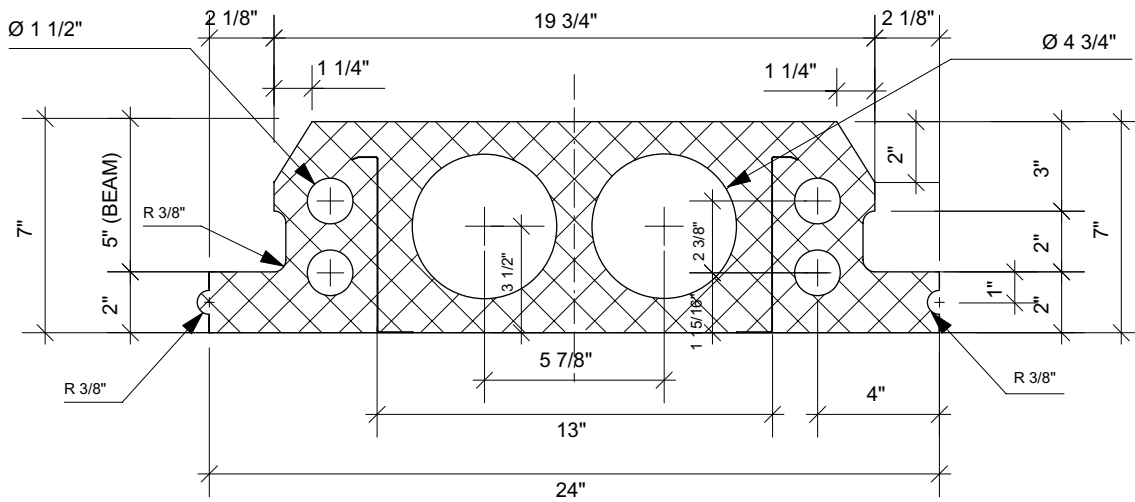
SCHEDULE OF DETAILS

DRAWN BY:	MSH	REVISION DATE:	
DATE:	05/01/2012	SCALE:	

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

DETAIL NO:	INS-000
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7" PANEL SECTION WITH 5" BEAM



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INSUL-DECK 7"
PANEL DIMENSIONS

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MSH

REVISION DATE:

DATE: 05/01/2012

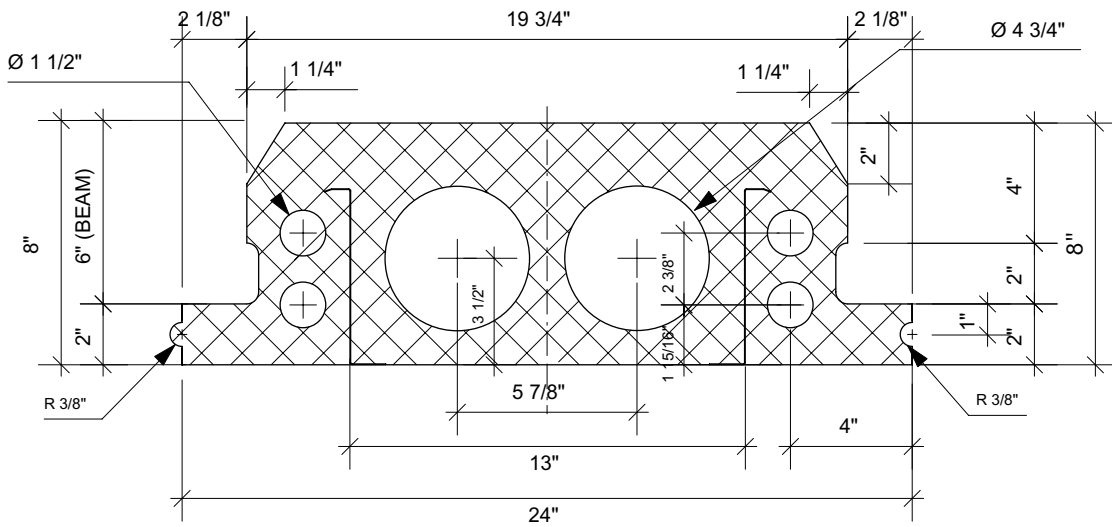
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DETAIL NO:

INS-001

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8" PANEL SECTION WITH 6" BEAM



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INSUL-DECK 8"
PANEL DIMENSIONS

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DATE: 05/01/2012

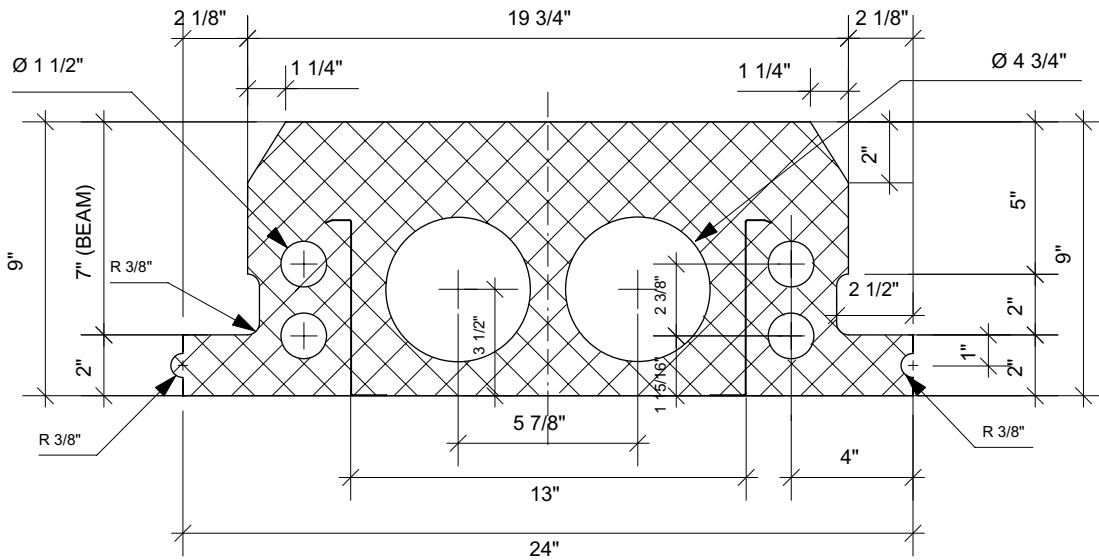
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DETAIL NO:

INS-002

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9" PANEL SECTION WITH 7" BEAM



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INSUL-DECK 9"
PANEL DIMENSIONS

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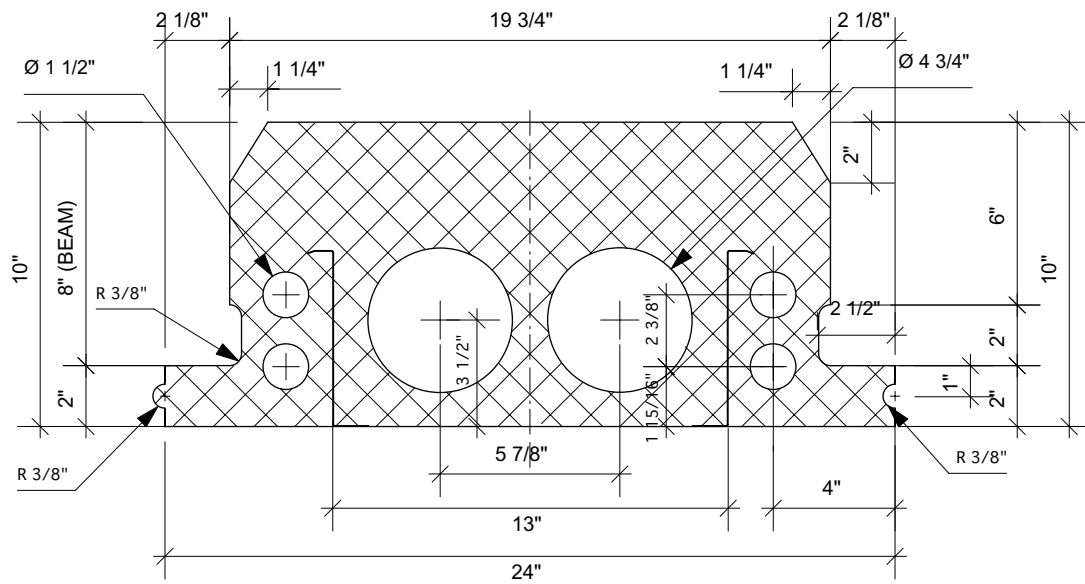
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DETAIL NO:

INS-003

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10" PANEL SECTION WITH 8" BEAM



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INSUL-DECK 10" PANEL DIMENSIONS

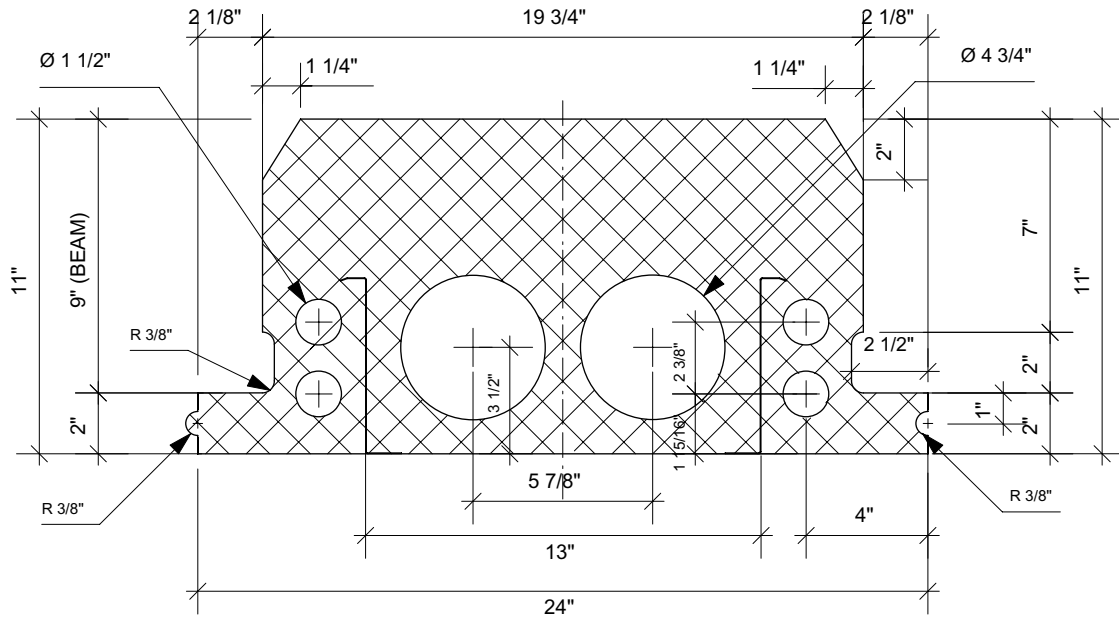
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DETAIL NO:

INS-004

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11" PANEL SECTION WITH 9" BEAM



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INSUL-DECK 11"
PANEL DIMENSIONS

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DATE: 05/01/2012

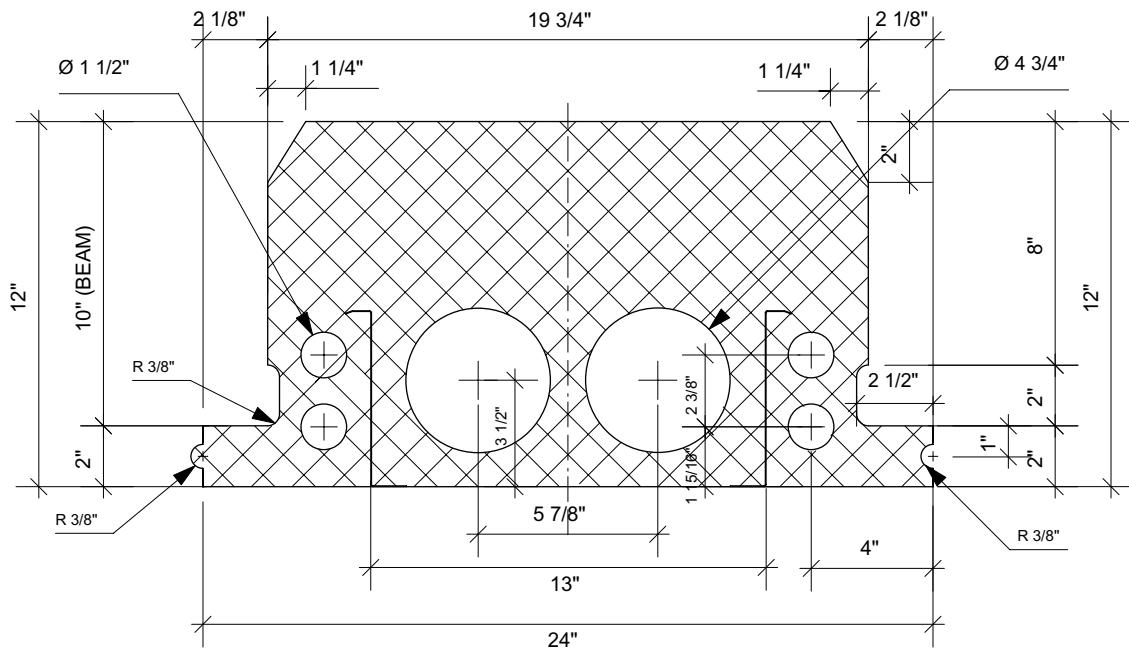
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12" PANEL SECTION WITH 10" BEAM



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INSUL-DECK 12"
PANEL DIMENSIONS

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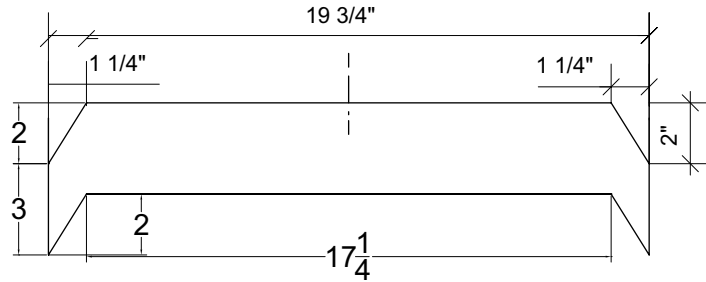
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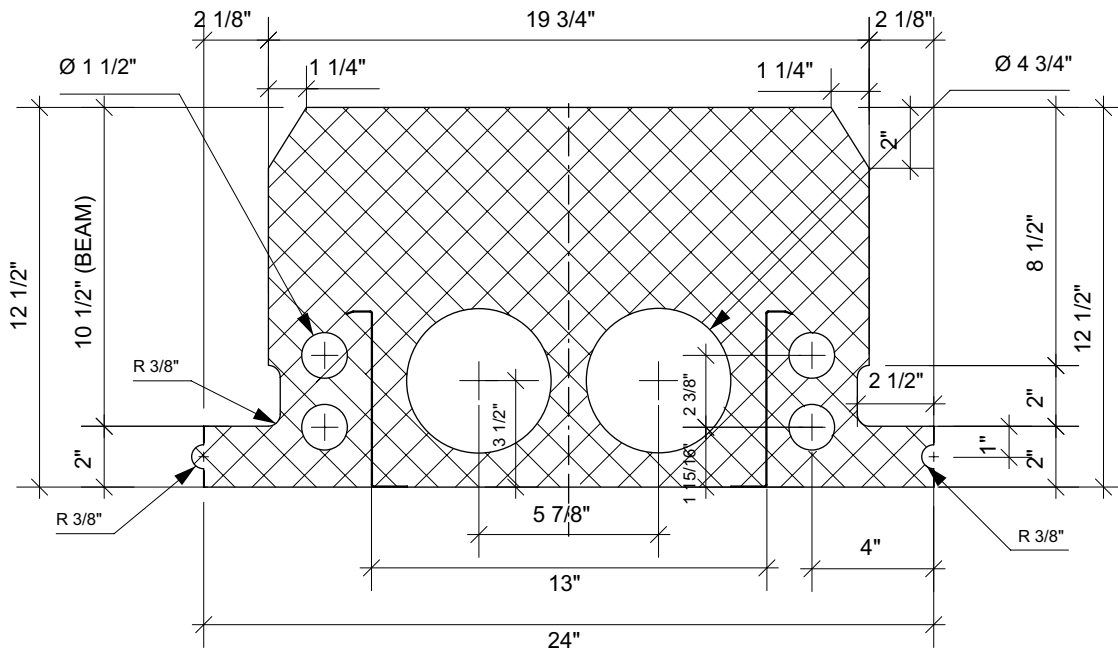
INS-006

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3 INCH TOP HAT TO FIT PANELS



12.5" PANEL SECTION WITH 10.5" BEAM



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INSUL-DECK 12.5" AND
INSUL-DECK 3" TOP HAT
PANEL DIMENSIONS

DRAWN BY: MSH

REVISION DATE:

DATE: 05/01/2012

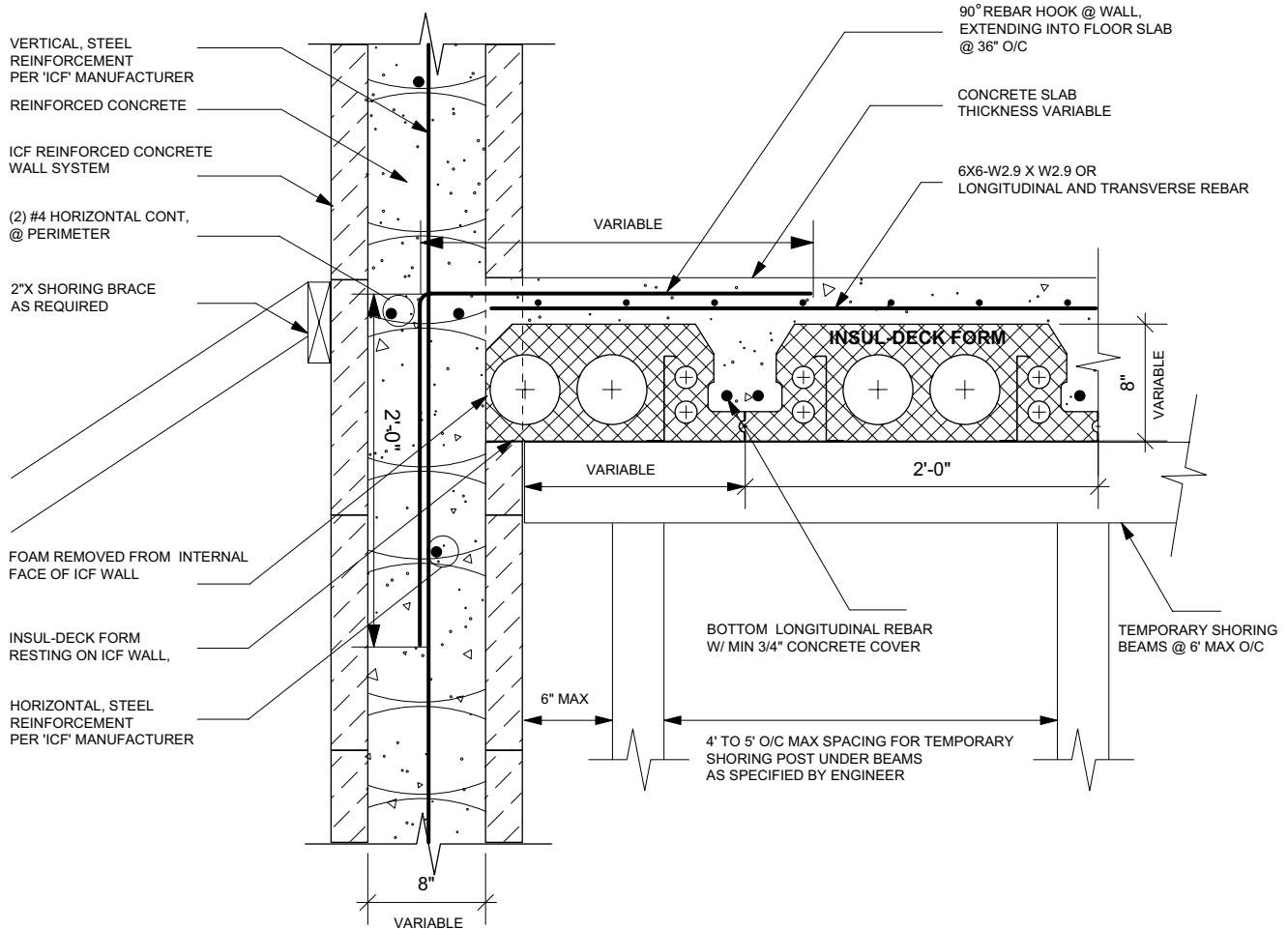
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DETAIL NO:

INS-007

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TRANSVERSE SECTION @ ICF WALL TO FLOOR (INSUL-DECK FORM RESTING ON ICF WALL)



NOTE:
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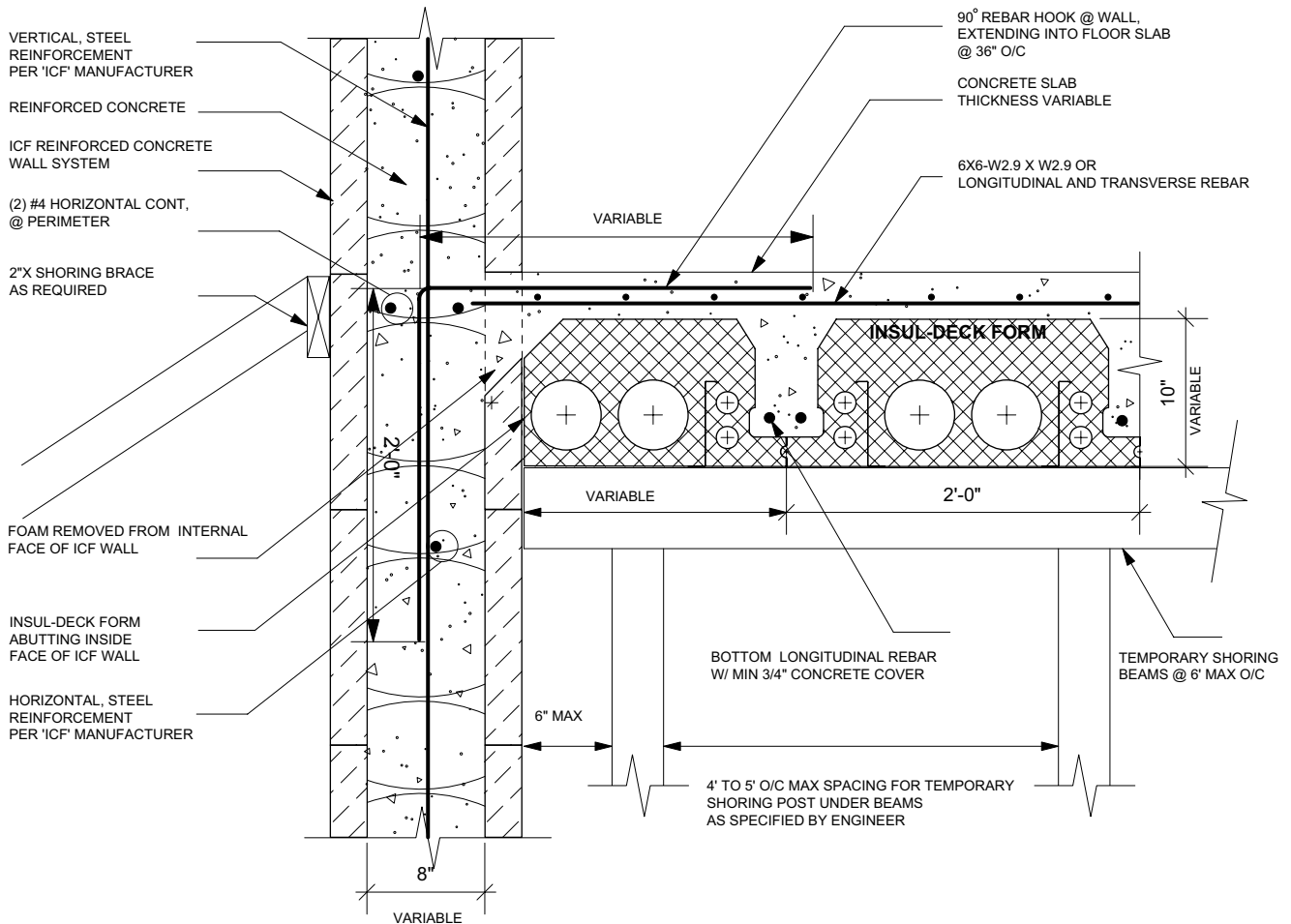
TRANSVERSE SECTION @
 ICF WALL TO FLOOR

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DATE: 05/01/2012	SCALE: 1" = 1'-0"

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

DETAIL NO: **INS-008**

TRANSVERSE SECTION @ ICF WALL TO FLOOR (INSUL-DECK FORM ABUTTING ICF WALL)



NOTE:
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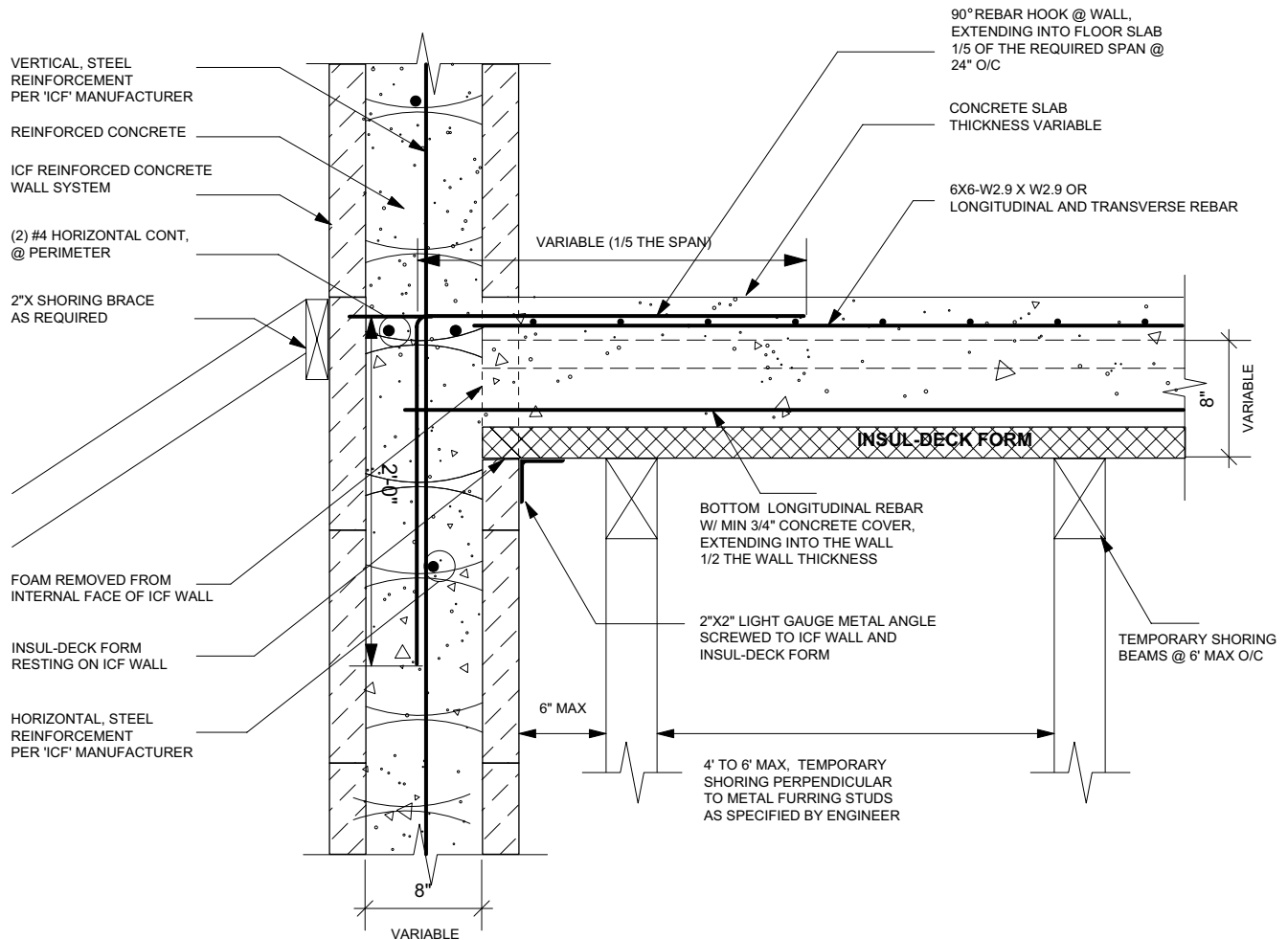
TRANSVERSE SECTION @
 ICF WALL TO FLOOR

DRAWN BY: MSH	REVISION DATE:
DATE: 05/01/2012	SCALE: 1" = 1'-0"

DETAIL NO: INS-009

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

LONGITUDINAL SECTION @ ICF WALL TO FLOOR (INSUL-DECK FORM RESTING ON ICF WALL)



NOTE:
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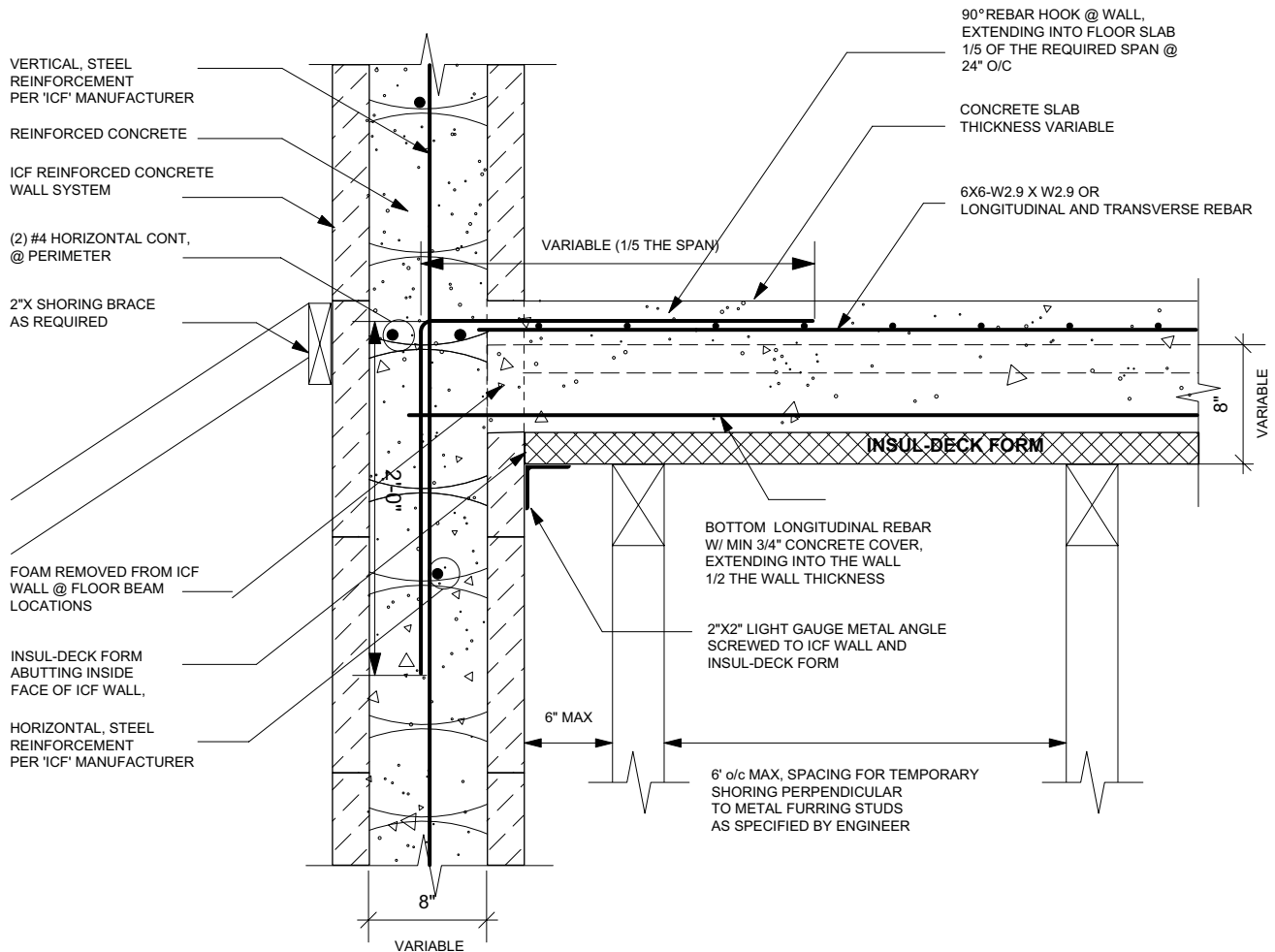
LONGITUDINAL SECTION @
ICF WALL TO FLOOR

DRAWN BY: MSH	REVISION DATE:
DATE: 05/01/2012	SCALE: 1" = 1'-0"

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

DETAIL NO: INS-010

LONGITUDINAL SECTION @ ICF WALL TO FLOOR (INSUL-DECK FORM ABUTTING ICF WALL)



NOTE:
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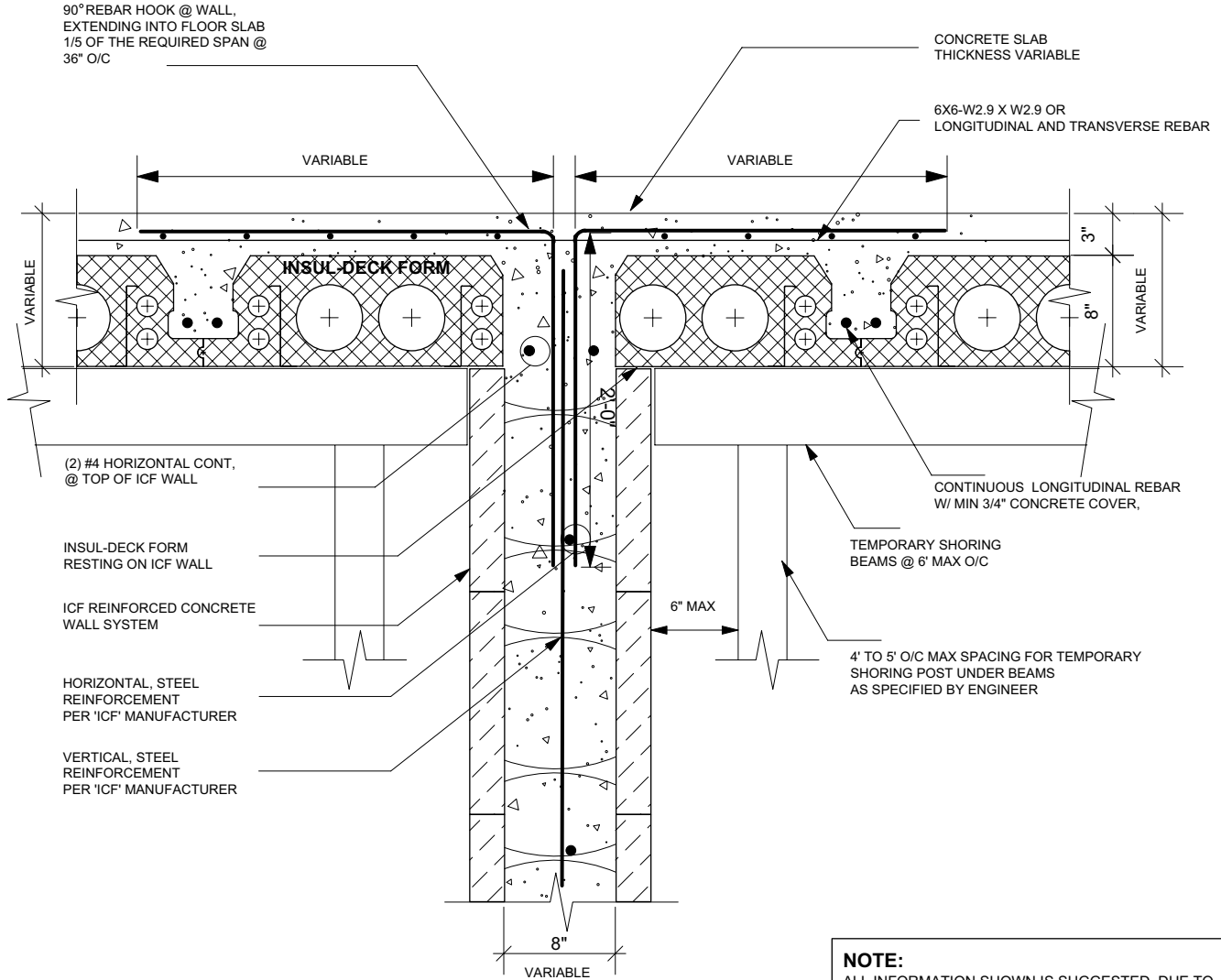
LONGITUDINAL SECTION @
ICF WALL TO FLOOR

DRAWN BY: MSH	REVISION DATE:
DATE: 05/01/2012	SCALE: 1" = 1'-0"

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

DETAIL NO: **INS-011**

SECTION @ INTERNAL ICF WALL TO FLOOR CONNECTION



NOTE:
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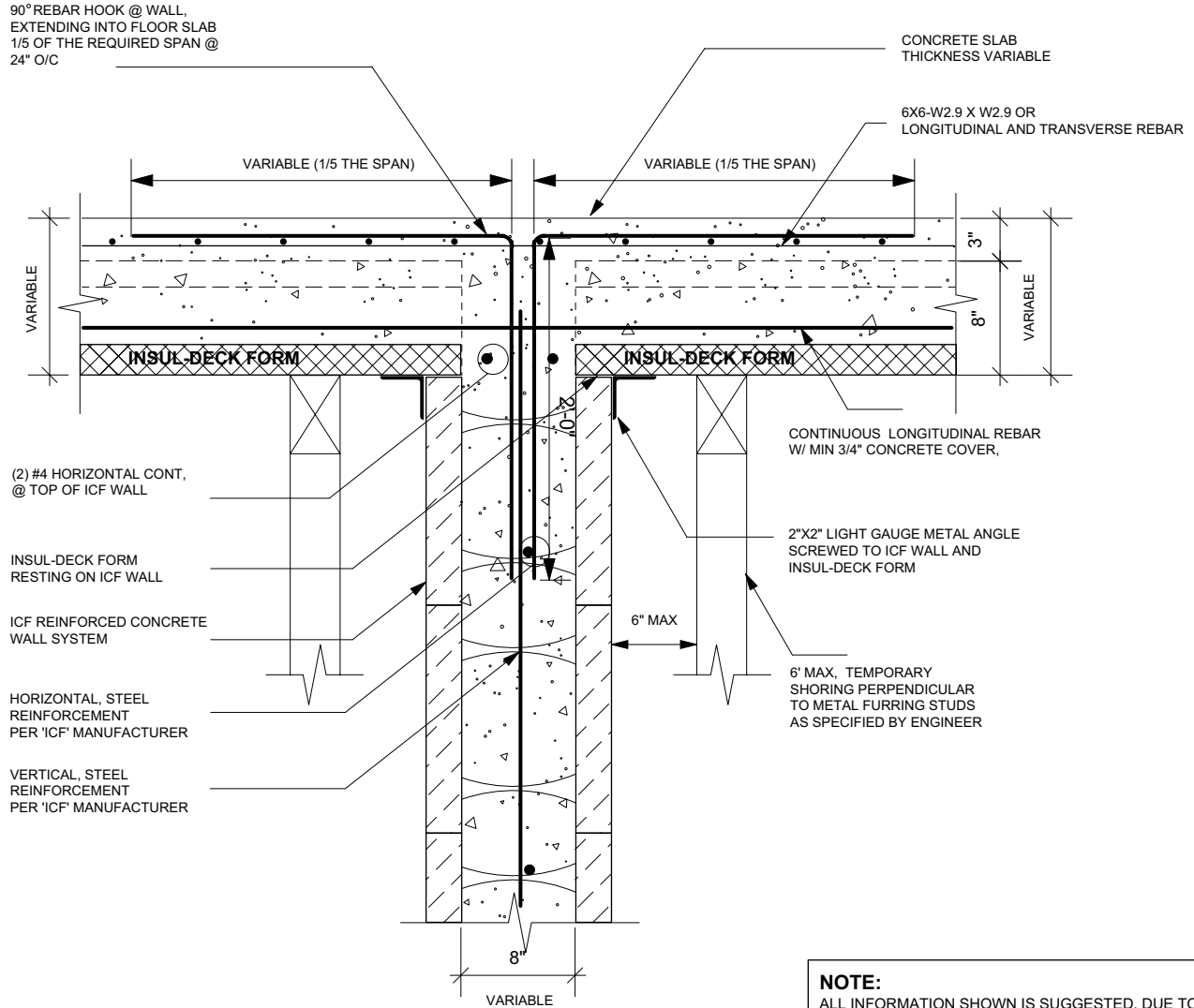
TRANSVERSE SECTION @
 INTERNAL ICF WALL

DRAWN BY: MSH	REVISION DATE:
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DETAIL NO: **INS-012**

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

SECTION @ INTERNAL ICF WALL TO FLOOR CONNECTION



NOTE:
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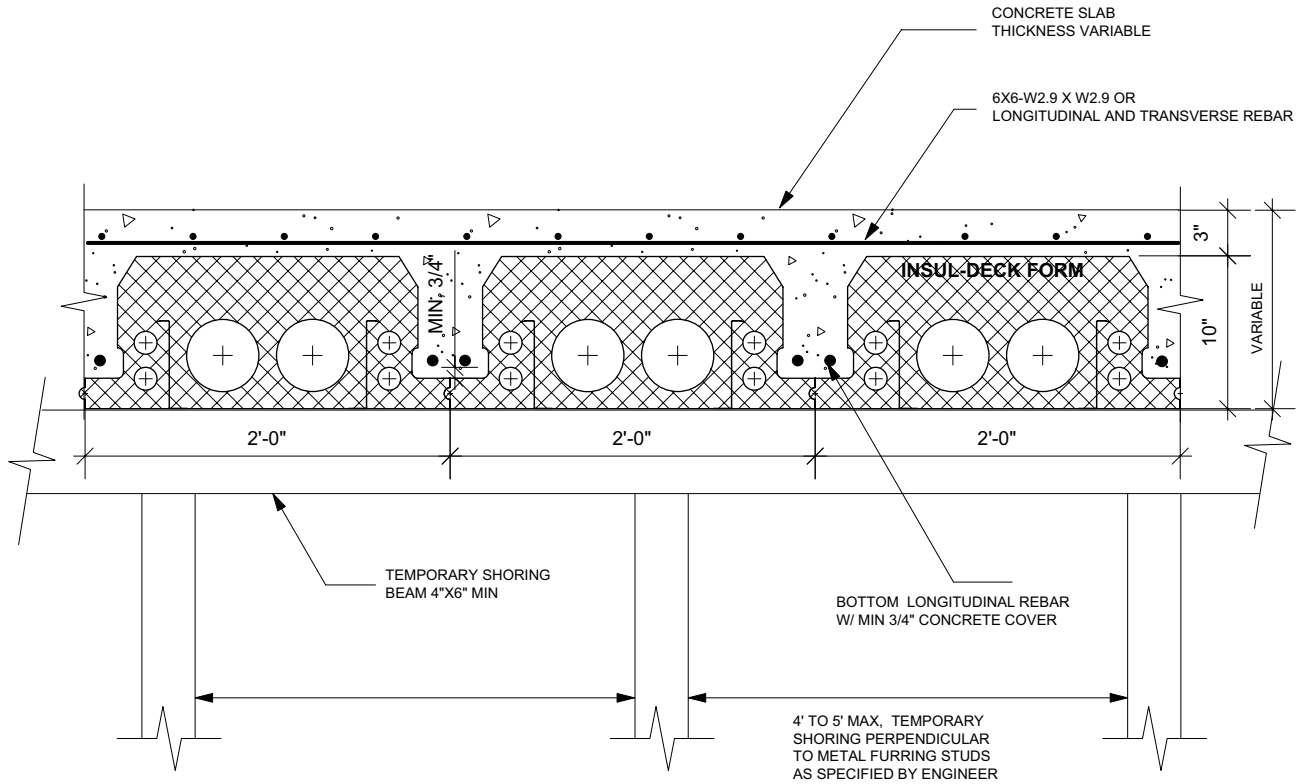
LONGITUDINAL SECTION @
 INTERNAL ICF WALL

DRAWN BY: MSH	REVISION DATE:
DATE: 05/01/2012	SCALE: 1" = 1'-0"

DETAIL NO: **INS-013**

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

TYPICAL TRANSVERSE SECTION



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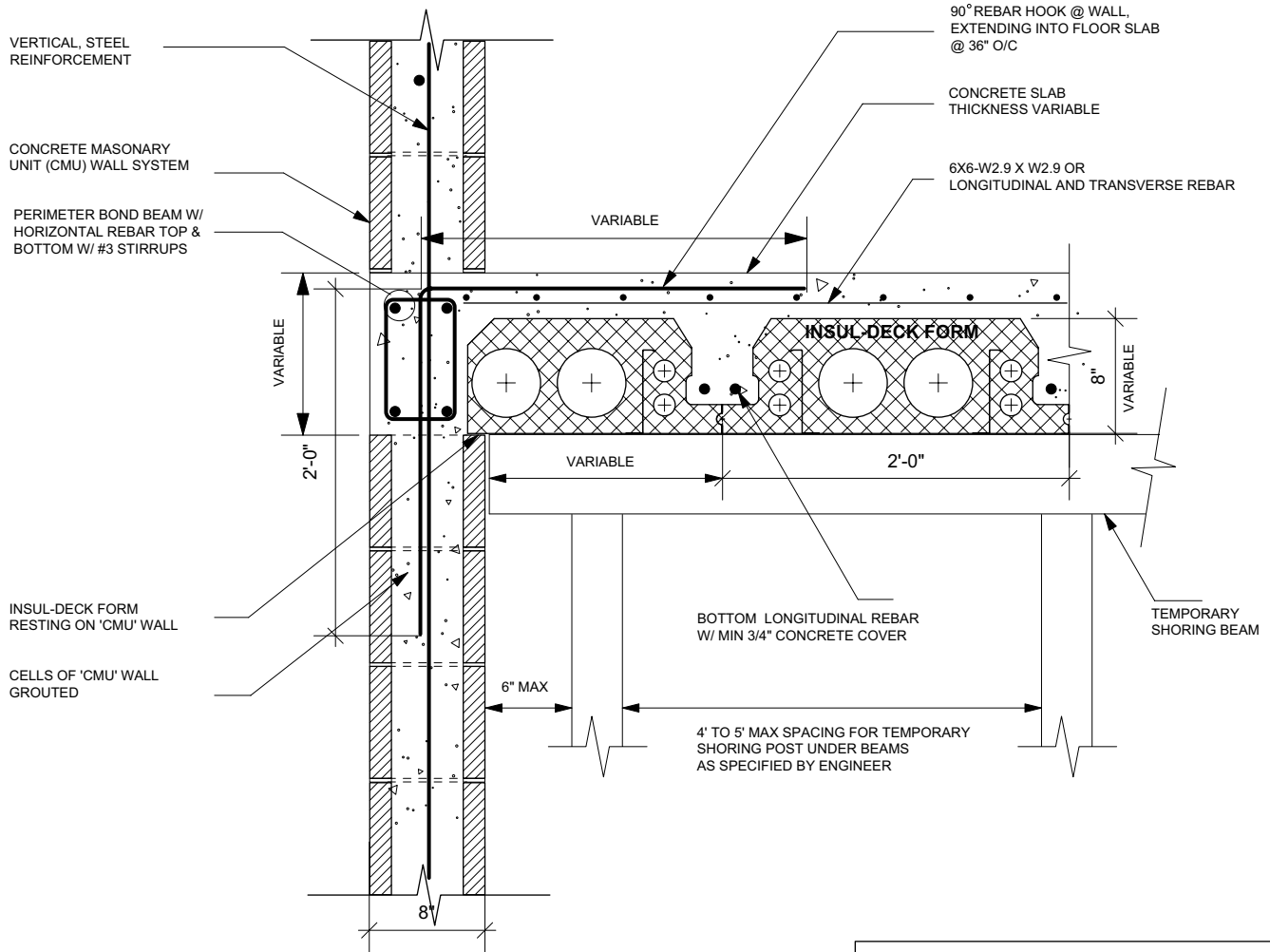
TRANSVERSE SECTION @
 ICF WALL TO FLOOR

DRAWN BY: MSH	REVISION DATE:
DATE: 05/01/2012	SCALE: 1" = 1'-0"

DETAIL NO: INS-014

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

TRANSVERSE SECTION @ 'CMU' WALL TO FLOOR (INSUL-DECK FORM RESTING ON CMU WALL)



NOTE:
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TRANSVERSE SECTION @
CMU WALL TO FLOOR

DRAWN BY: MSH

REVISION DATE:

DATE: 05/01/2012

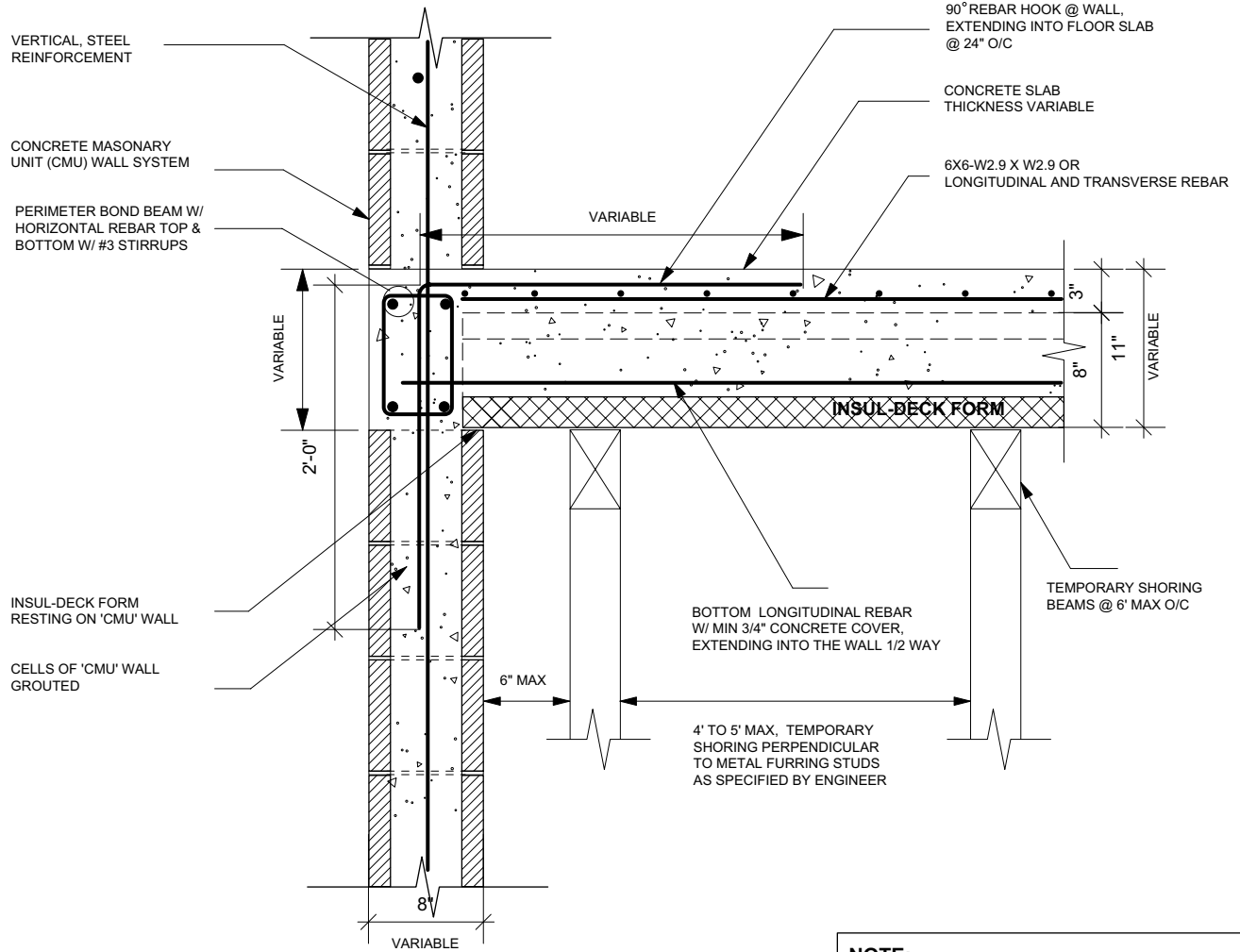
SCALE: 1" = 1'-0"

DETAIL NO:

INS-015

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

LONGITUDINAL SECTION @ 'CMU' WALL TO FLOOR (INSUL-DECK FORM RESTING ON CMU WALL)



NOTE:
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LONGITUDINAL SECTION @
CMU WALL TO FLOOR

DRAWN BY: MSH

REVISION DATE:

DATE: 05/01/2012

SCALE: 1" = 1'-0"

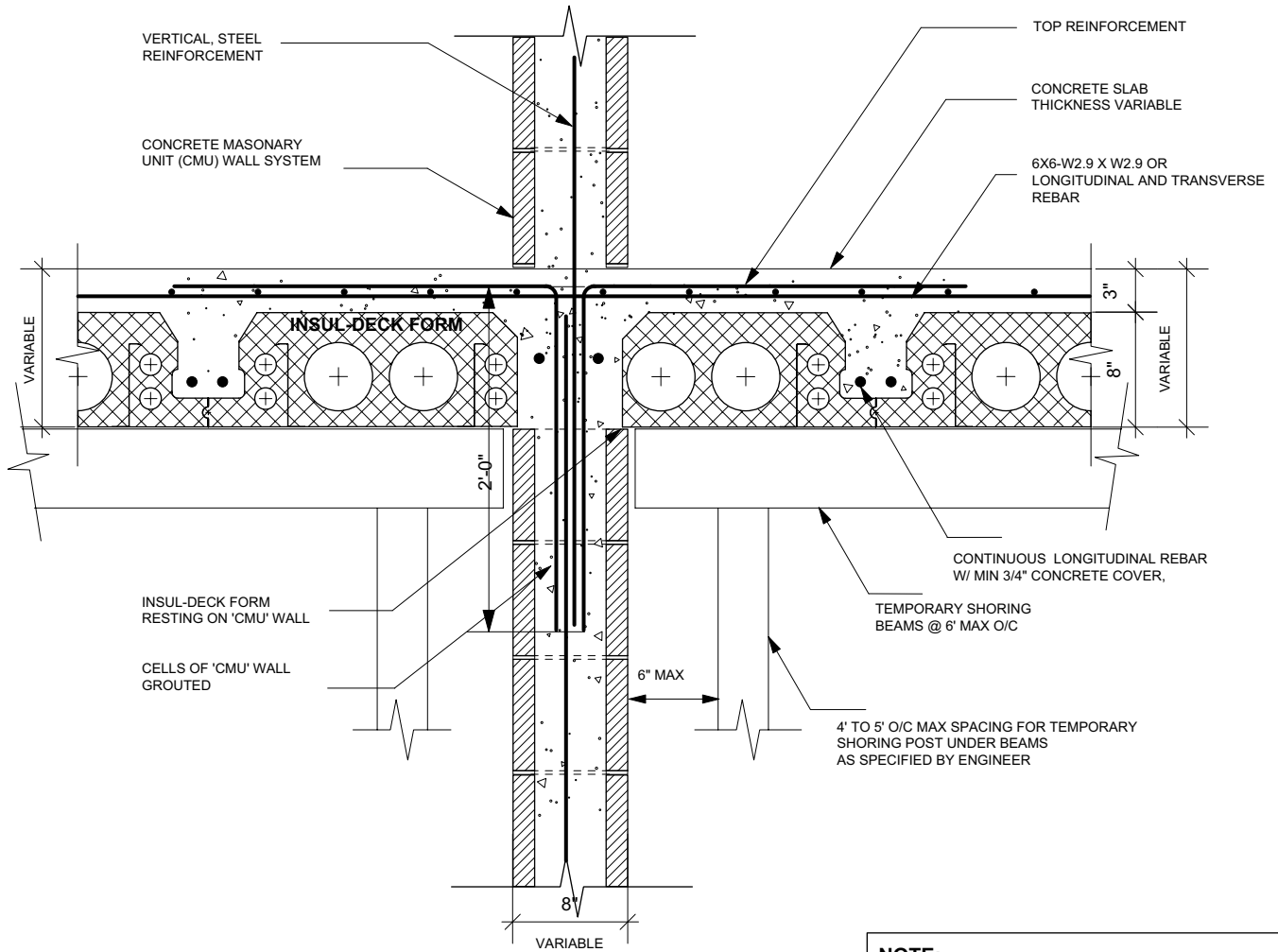
DETAIL NO:

INS-016

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

TRANSVERSE SECTION @ INTERNAL 'CMU' WALL TO FLOOR

(INSUL-DECK FORM RESTING ON CMU WALL)



NOTE:
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TRANSVERSE SECTION @
 INTERNAL CMU WALL TO FLOOR

DRAWN BY: MSH

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DATE: 05/01/2012

SCALE: 1" = 1'-0"

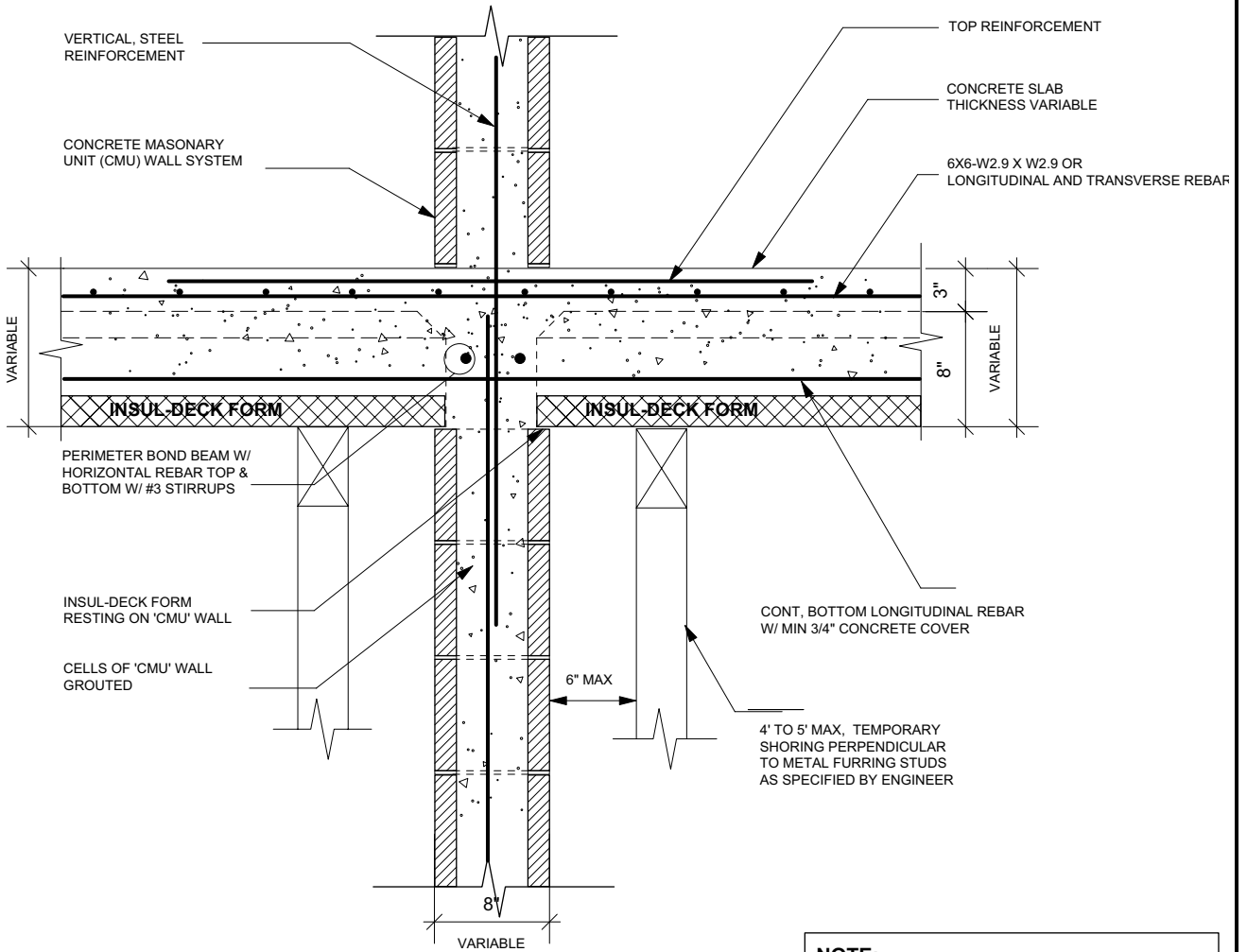
DETAIL NO:

INS-017

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

LONGITUDINAL SECTION @ INTERNAL 'CMU' WALL TO FLOOR

(INSUL-DECK FORM RESTING ON CMU WALL)



NOTE:
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LONGITUDINAL SECTION @
 INTERNAL CMU WALL TO FLOOR

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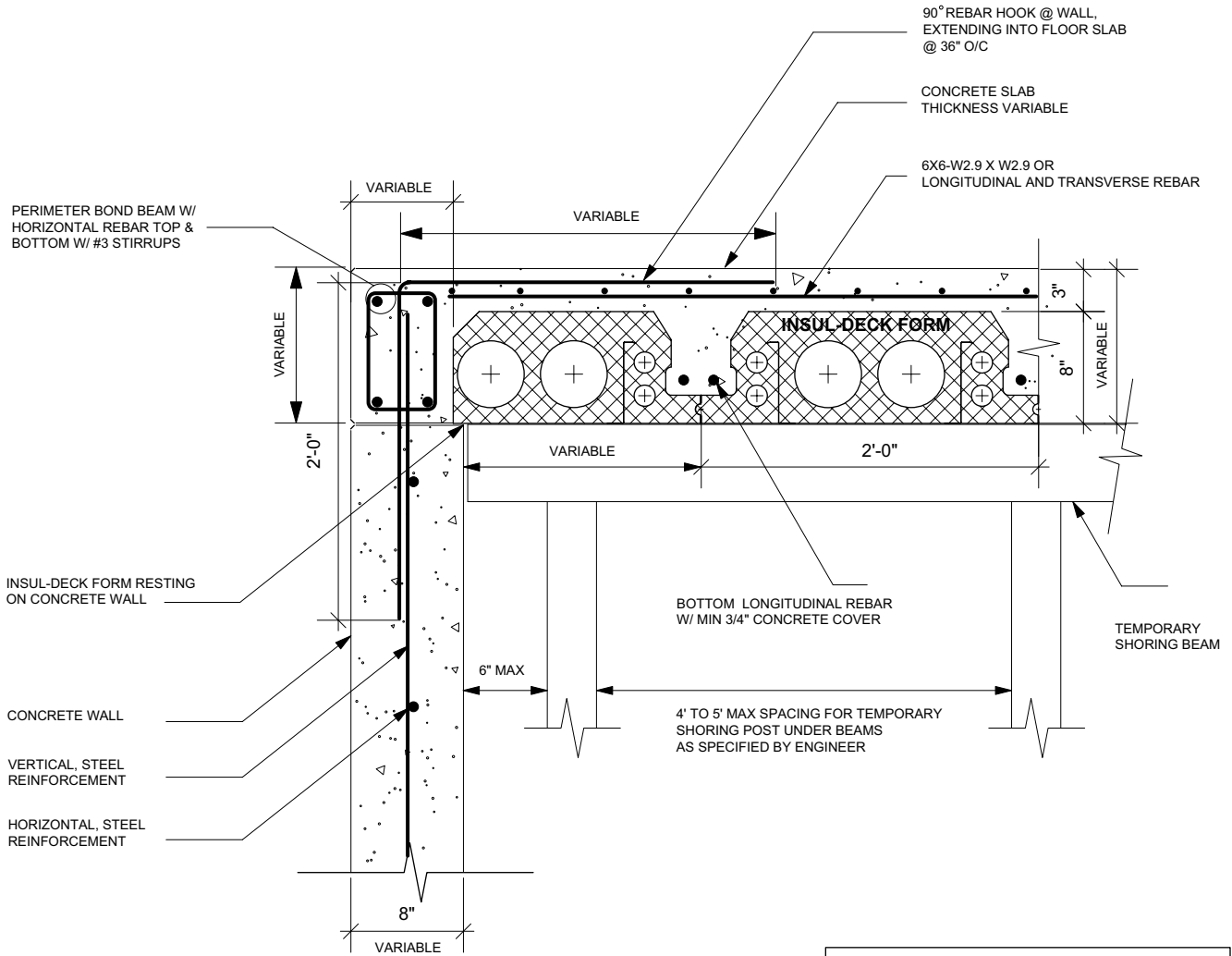
SCALE: 1" = 1'-0"

DETAIL NO:

INS-018

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

TRANSVERSE SECTION @ CONCRETE WALL TO FLOOR CONNECTION (INSUL-DECK FORM RESTING ON CONCRETE WALL)



NOTE:
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TRANSVERSE SECTION @
 CONCRETE WALL TO FLOOR

DRAWN BY: MSH

REVISION DATE:

DATE: 05/01/2012

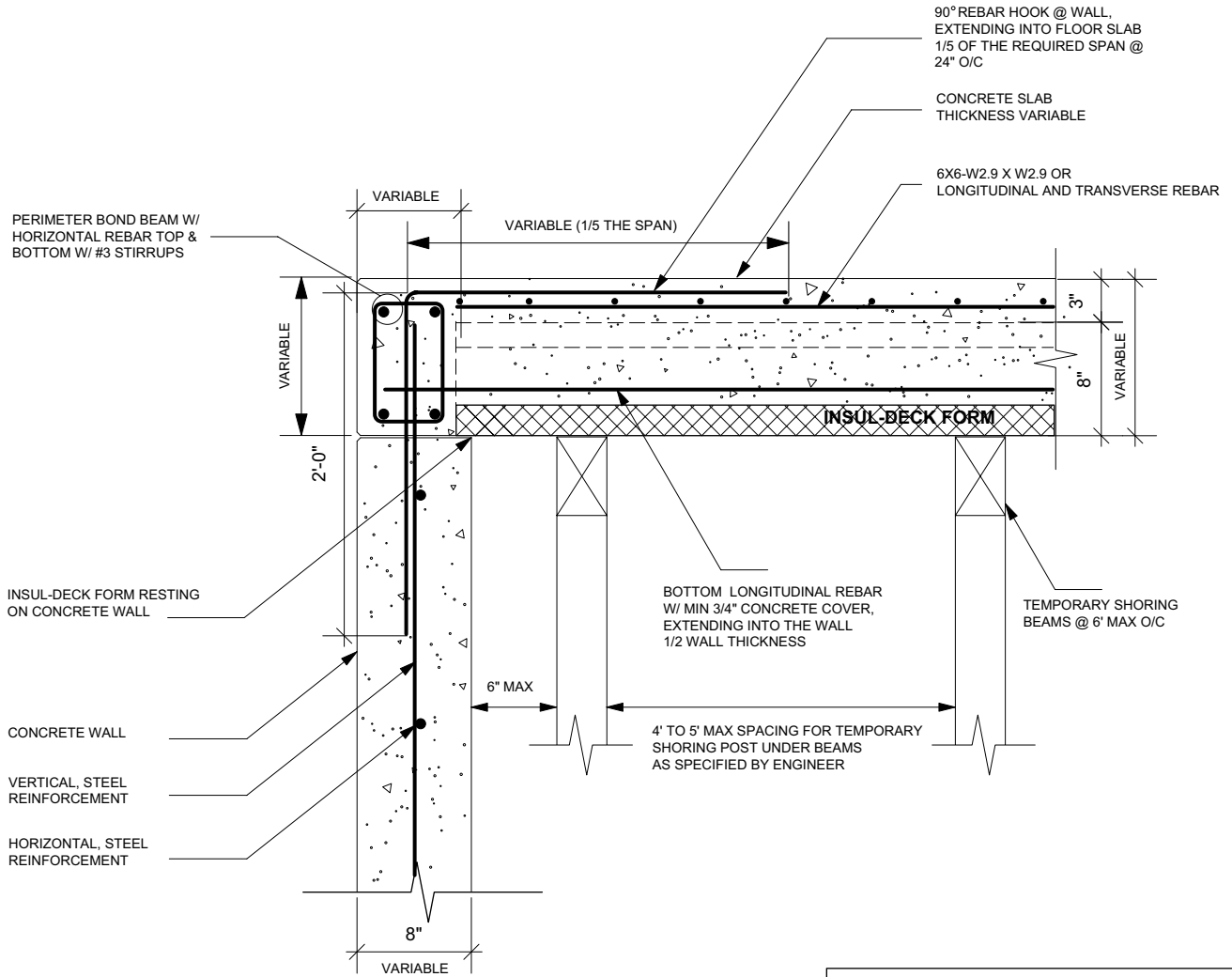
SCALE: 1" = 1'-0"

DETAIL NO:

INS-019

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

LONGITUDINAL SECTION @ CONCRETE WALL TO FLOOR CONNECTION (INSUL-DECK FORM RESTING ON CONCRETE WALL)



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LONGITUDINAL SECTION @
CONCRETE WALL TO FLOOR

DRAWN BY: MSH

REVISION DATE:

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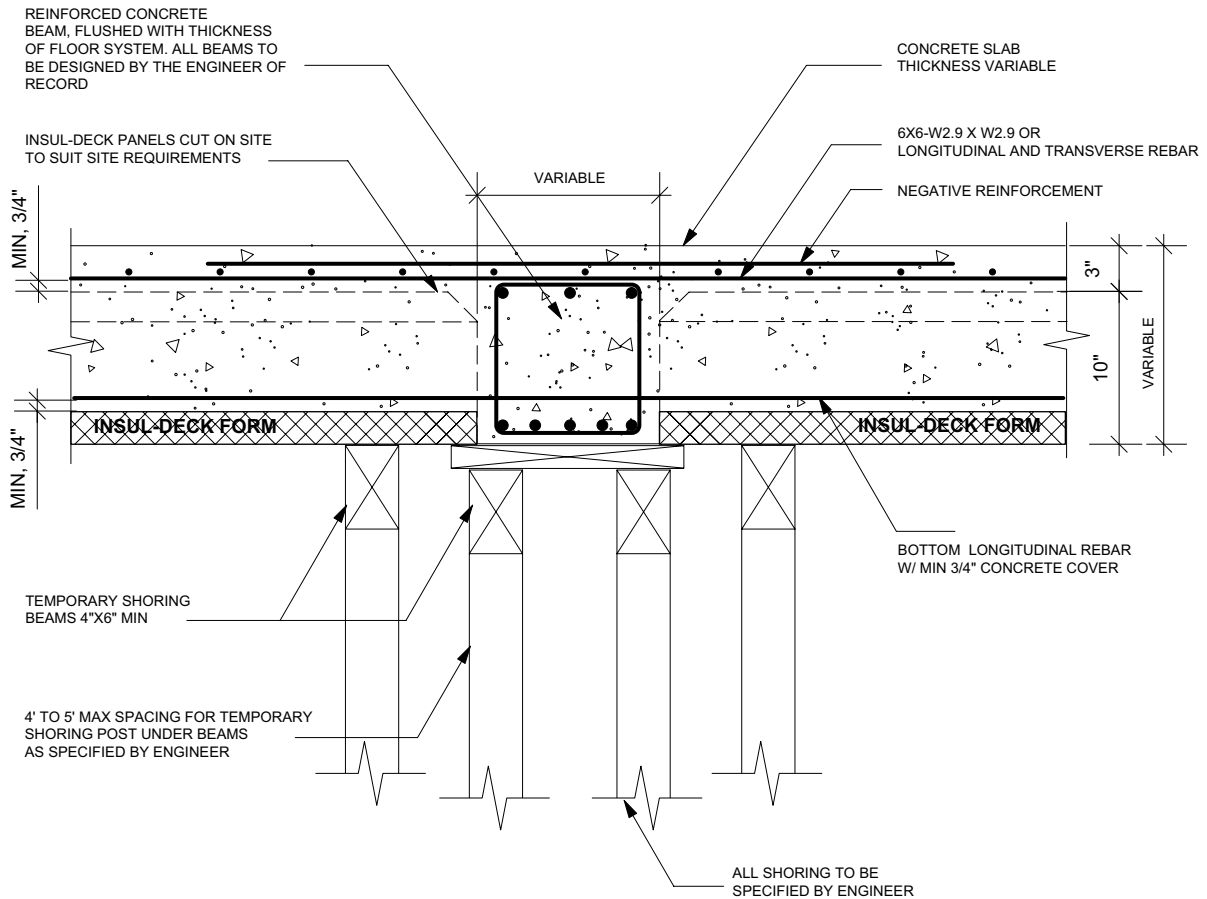
SCALE: 1" = 1'-0"

DETAIL NO:

INS-020

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

LONGITUDINAL SECTION @ FLUSH CONCRETE BEAM



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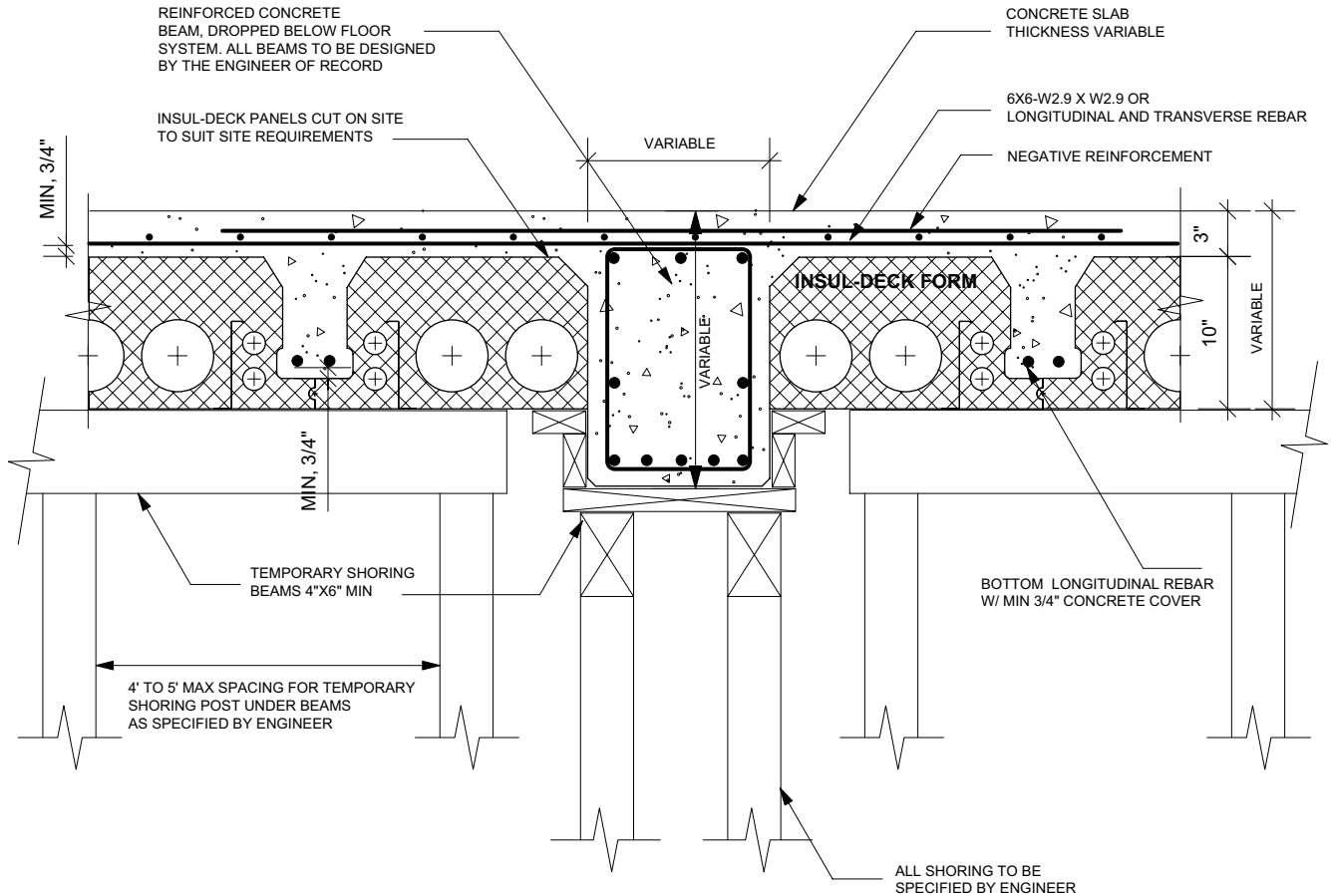
LONGITUDINAL SECTION @ FLUSH CONCRETE BEAM

DRAWN BY: MSH	REVISION DATE:
DATE: 05/01/2012	SCALE: 1" = 1'-0"

DETAIL NO: INS-022

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

TRANSVERSE SECTION @ DROPPED CONCRETE BEAM



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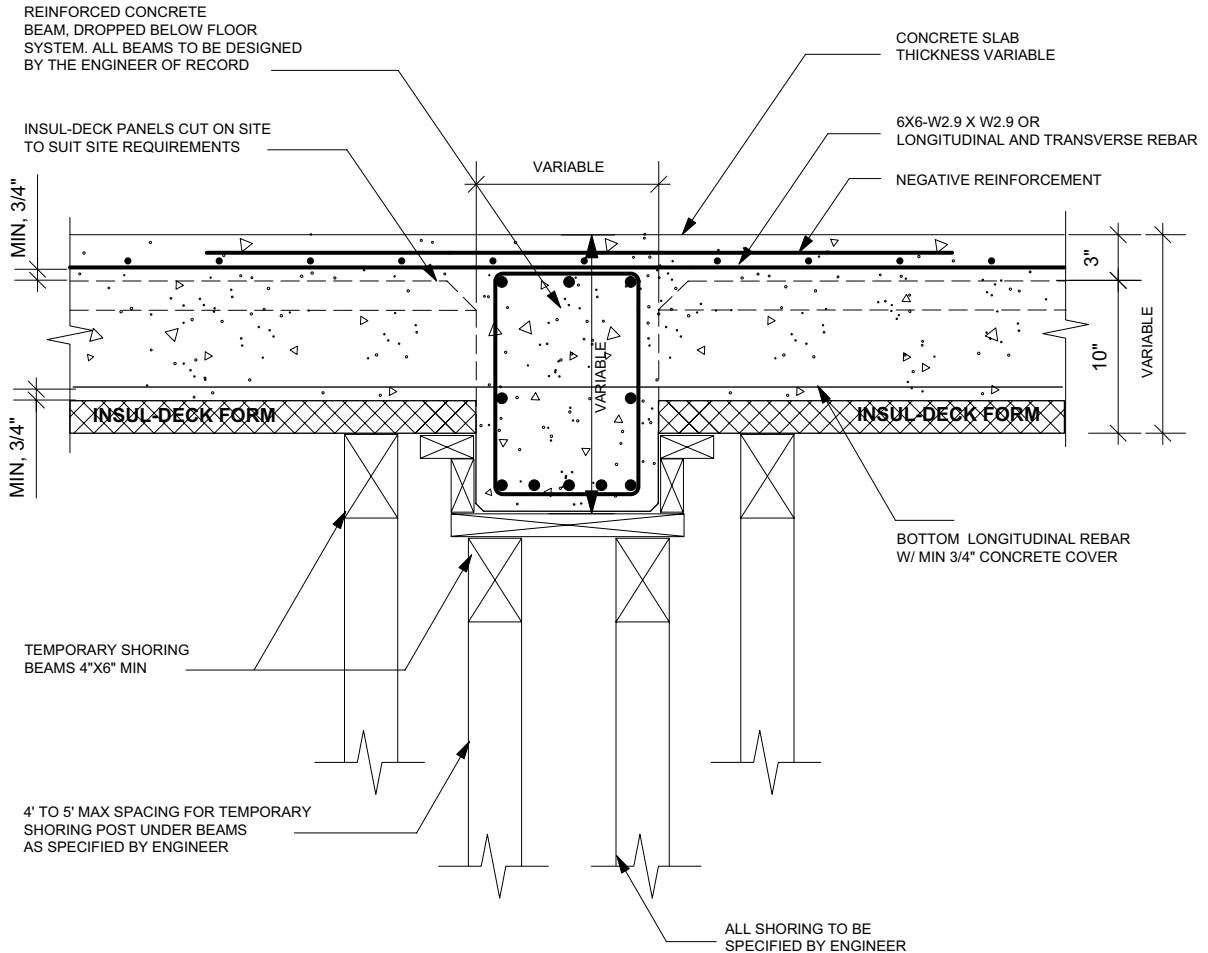
TRANSVERSE SECTION @ DROPPED CONCRETE BEAM

DRAWN BY: MSH	REVISION DATE:
DATE: 05/01/2012	SCALE: 1" = 1'-0"

DETAIL NO: INS-023

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

LONGITUDINAL SECTION @ DROPPED CONCRETE BEAM



NOTE:
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LONGITUDINAL SECTION @
 FLUSH CONCRETE BEAM

DRAWN BY: MSH

REVISION DATE:

DATE: 05/01/2012

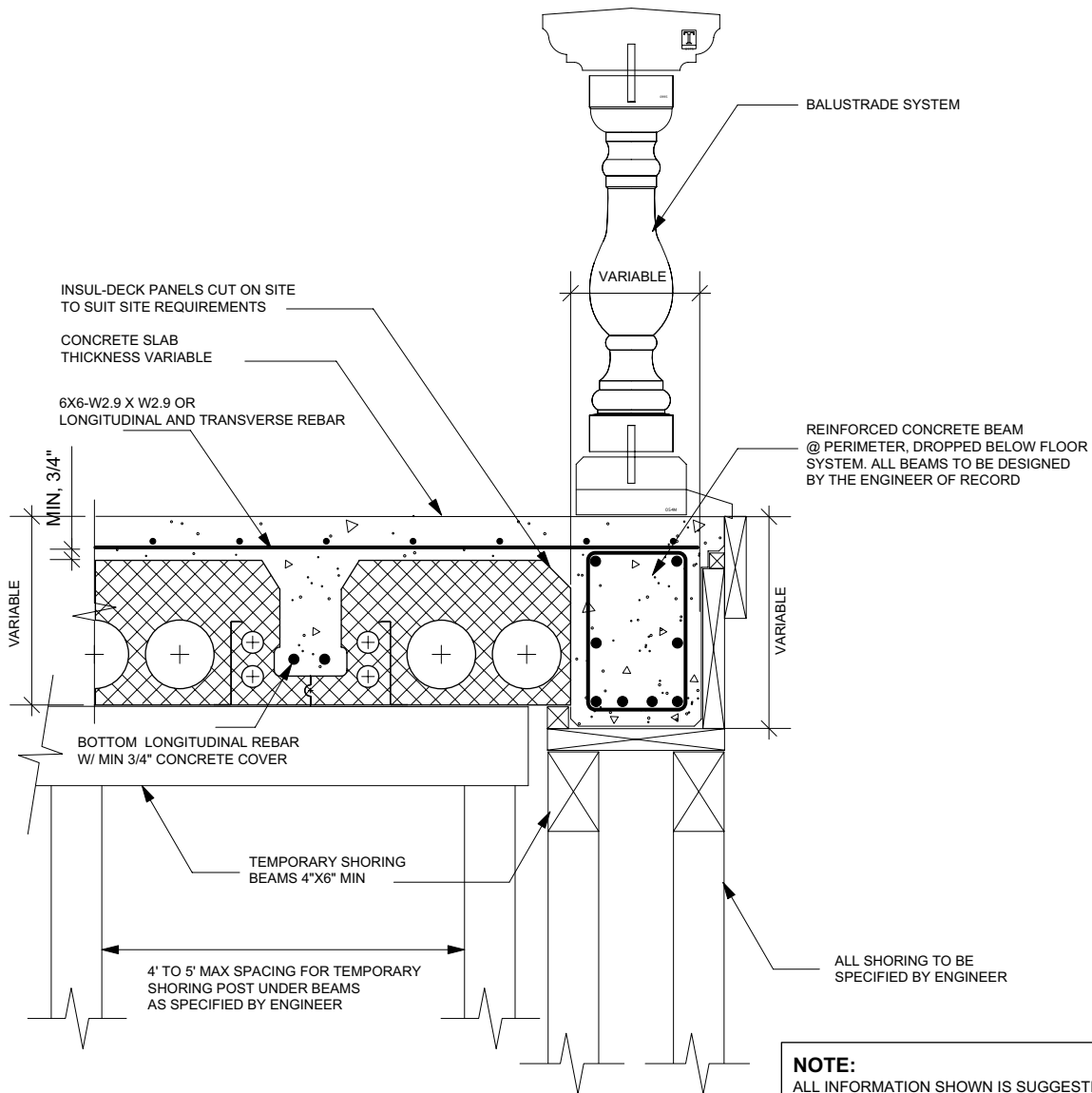
SCALE: 1" = 1'-0"

DETAIL NO:

INS-024

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

TRANSVERSE SECTION @ PORCH PERIMETER BEAM (INSUL-DECK FORM W/ REINFORCED CONCRETE BEAM)



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TRANSVERSE SECTION @
 PORCH PERIMETER BEAM

DRAWN BY: MSH

REVISION DATE:

DATE: 05/01/2012

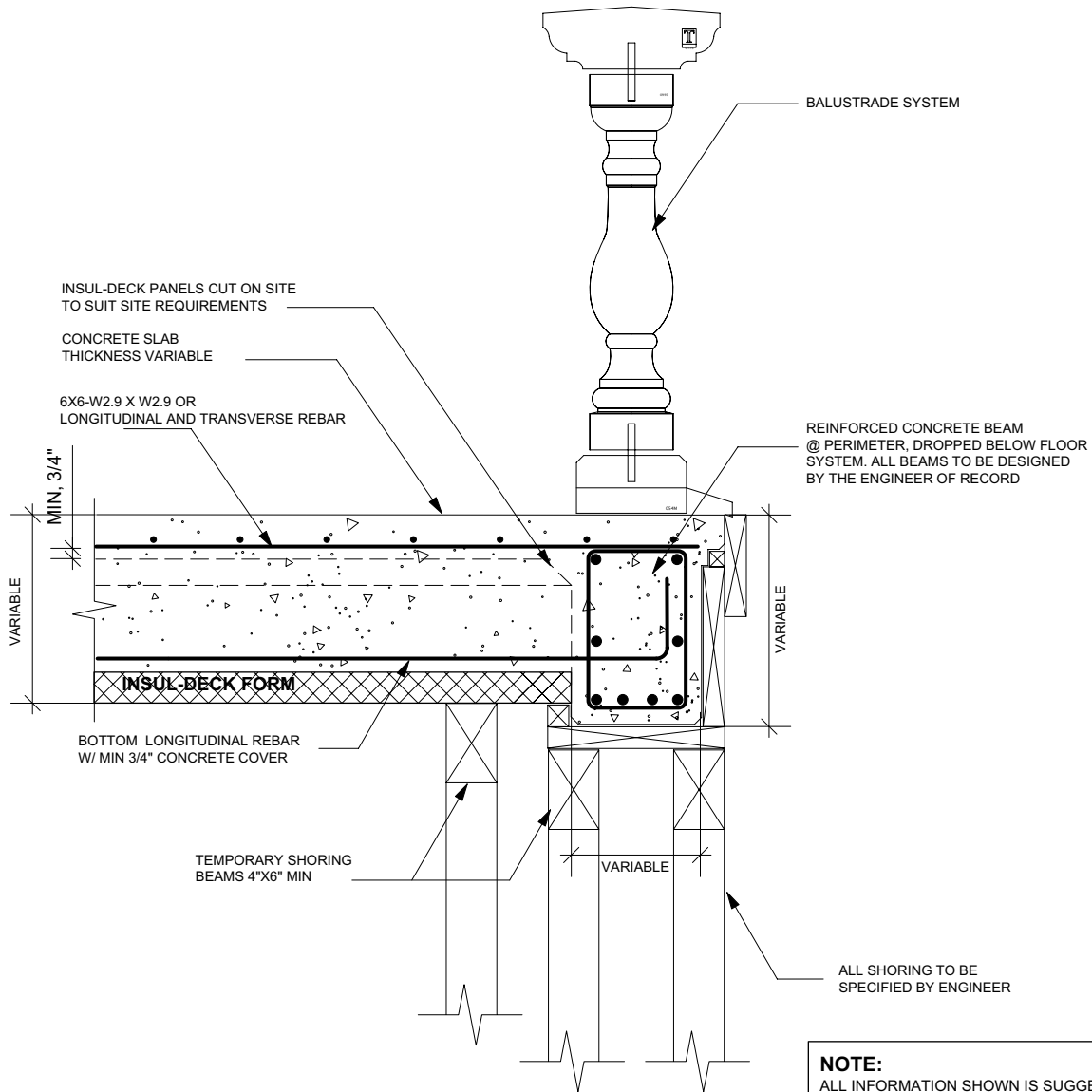
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DETAIL NO:

INS-025

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

LONGITUDINAL SECTION @ PORCH PERIMETER BEAM (INSUL-DECK FORM W/ REINFORCED CONCRETE BEAM)



NOTE:
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LONGITUDINAL SECTION @ PORCH PERIMETER BEAM

DRAWN BY: MSH

REVISION DATE:

DATE: 05/01/2012

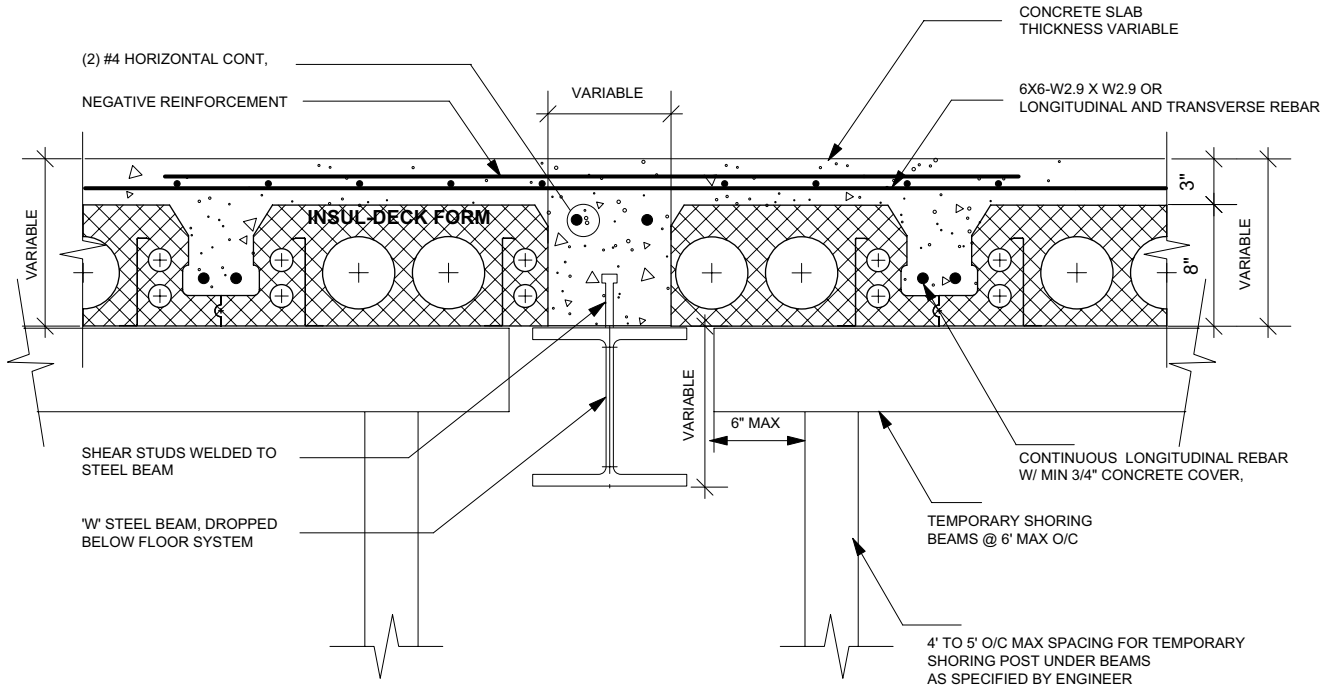
SCALE: 1" = 1'-0"

DETAIL NO:

INS-026

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

TRANSVERSE SECTION @ DROPPED STEEL BEAM



NOTE:

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TRANSVERSE SECTION @ DROPPED STEEL BEAM

DRAWN BY: MSH

REVISION DATE:

DATE: 05/01/2012

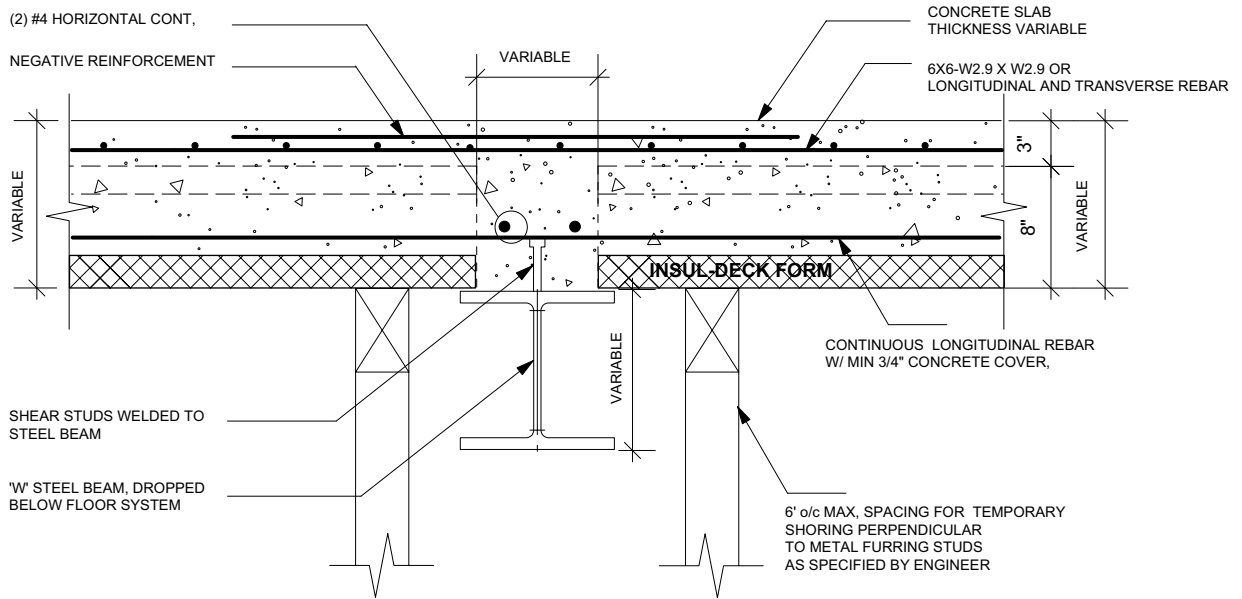
SCALE: 1" = 1'-0"

DETAIL NO:

INS-027

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

LONGITUDINAL SECTION @ DROPPED STEEL BEAM (INSUL-DECK PANELS CUT @ STEEL BEAM)



NOTE:
ALL INFORMATION SHOWN IS SUGGESTED. DUE TO APPLICATION VARIANCES IT IS THE RESPONSIBILITY OF THE ENGINEER OF RECORD TO PROVIDE ALL INFORMATION REQUIRED TO SUIT LOCAL BUILDING CODES AND REGULATIONS, TO INCLUDE ALL STEEL REINFORCEMENT AND SHORING SCHEDULES. THIS DETAIL SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT HAS BEEN CERTIFIED AND SEALED BY A QUALIFIED ENGINEER.

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LONGITUDINAL SECTION @
DROPPED STEEL BEAM

DRAWN BY: MSH

REVISION DATE:

DATE: 05/01/2012

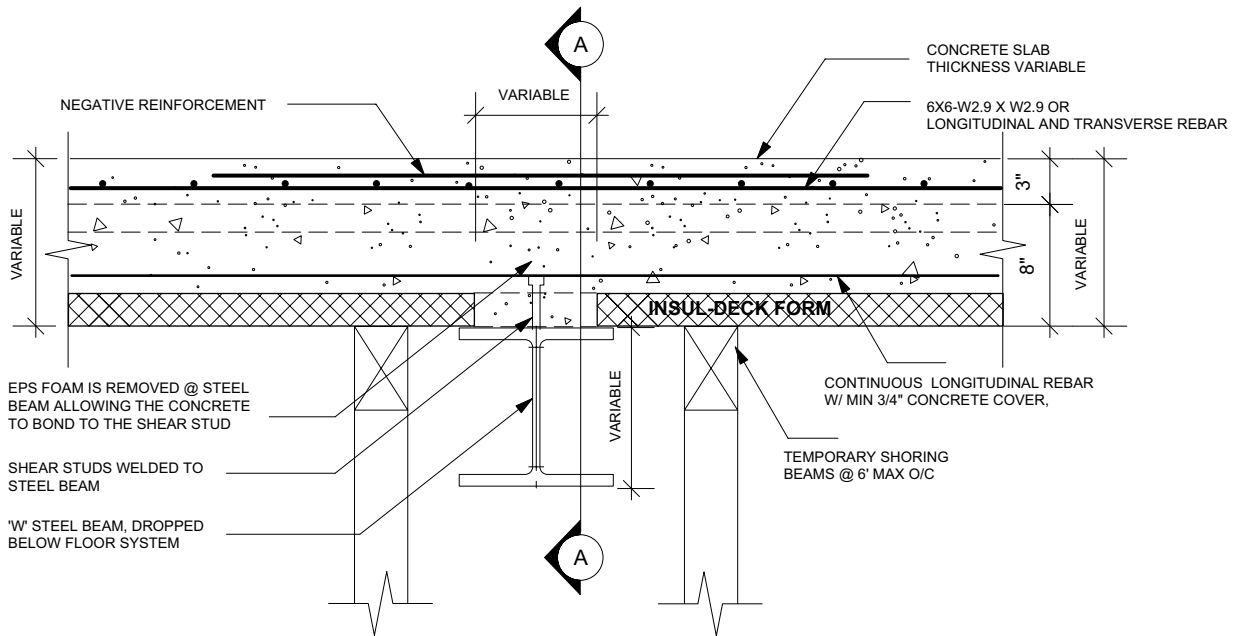
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DETAIL NO:

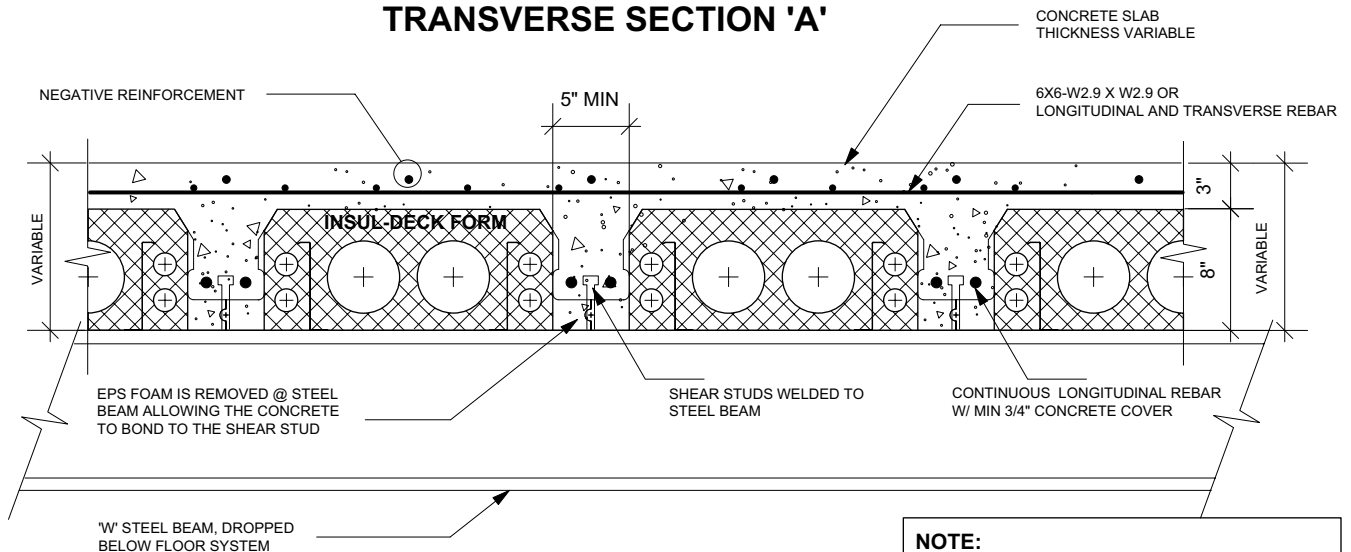
INS-028

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

SECTION @ DROPPED STEEL BEAM (INSUL-DECK PANELS ARE CONTINUOUS OVER STEEL BEAM)



TRANSVERSE SECTION 'A'



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SECTION @ DROPPED STEEL
BEAM W/ CONTINUOUS PANEL

DRAWN BY: MSH

REVISION DATE:

DATE: 05/01/2012

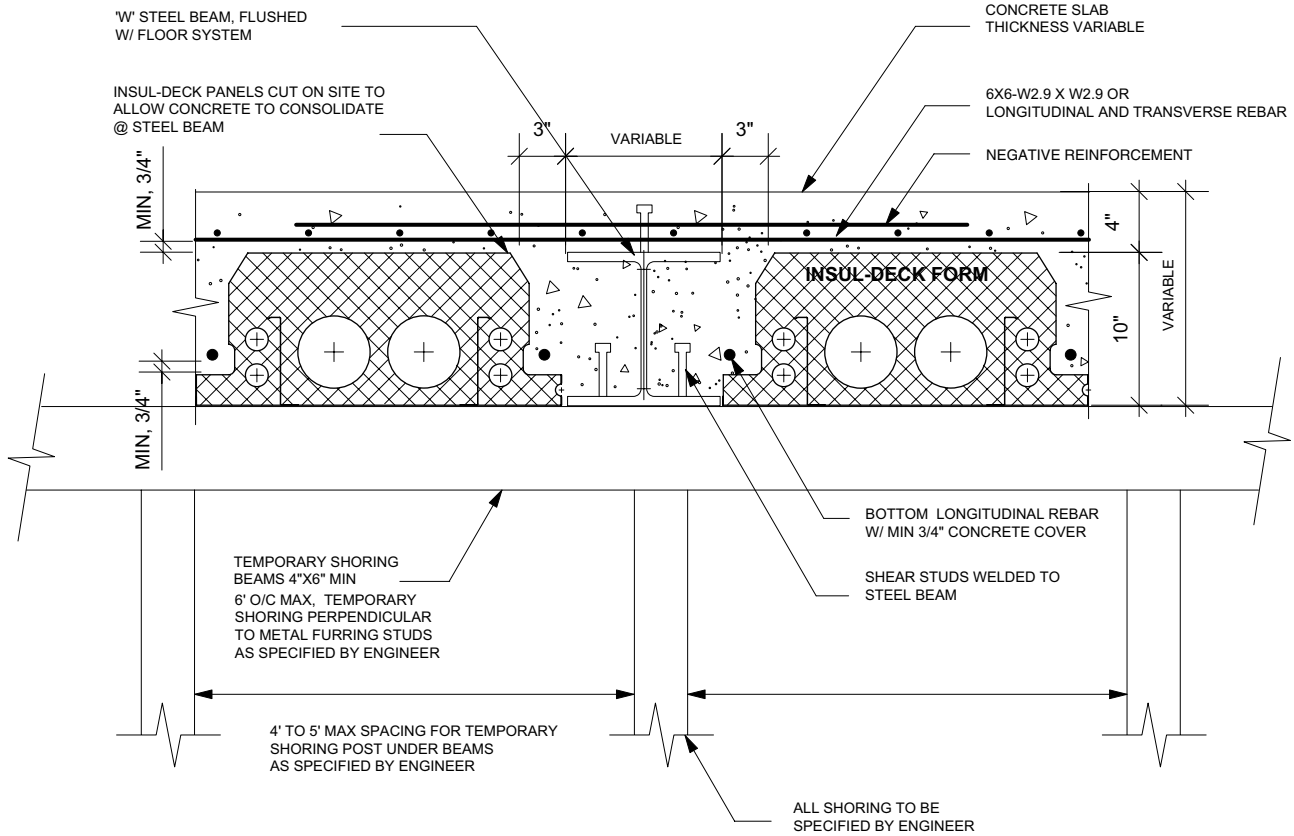
SCALE: 1" = 1'-0"

DETAIL NO:

INS-029

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

TRANSVERSE SECTION @ FLUSH STEEL BEAM



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TRANSVERSE SECTION @
FLUSH STEEL BEAM

DRAWN BY: MSH

REVISION DATE:

DATE: 05/01/2012

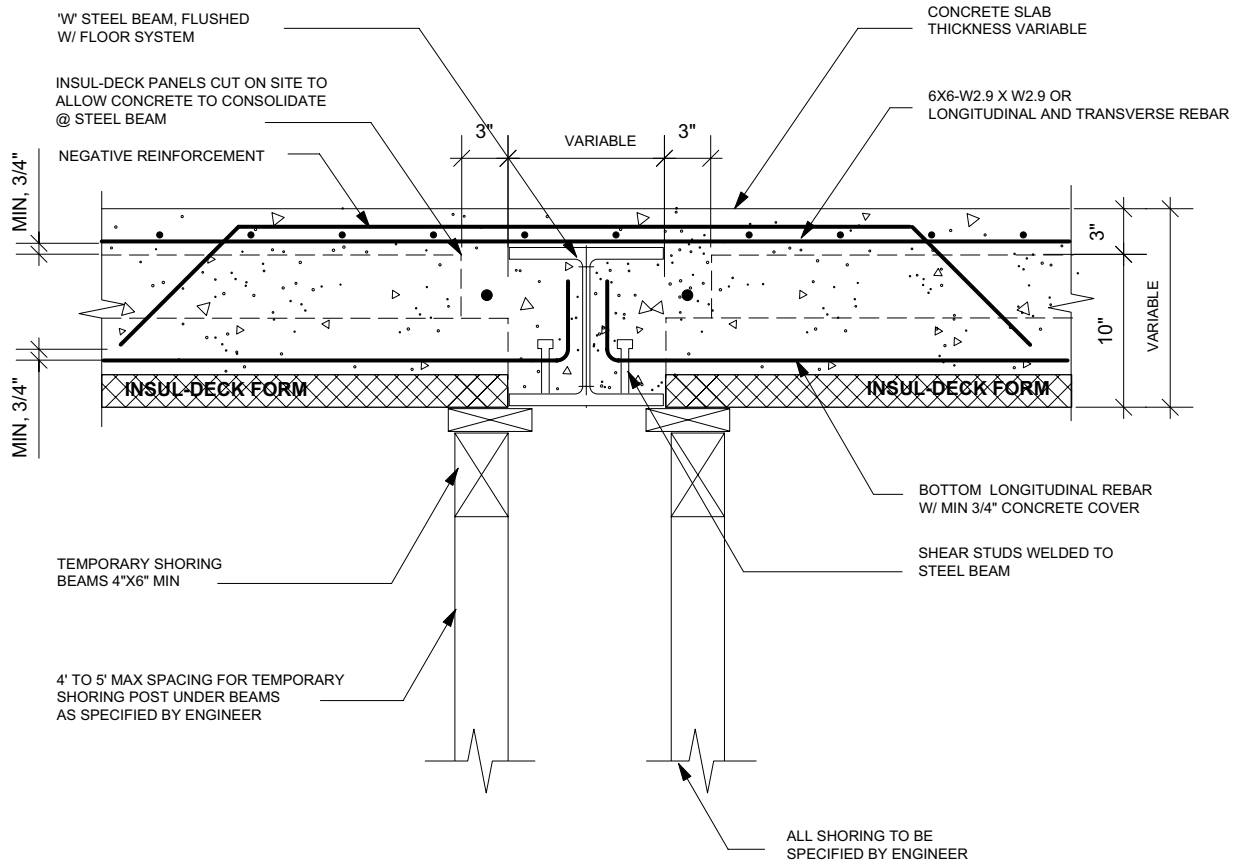
SCALE: 1" = 1'-0"

DETAIL NO:

INS-030

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

LONGITUDINAL SECTION @ FLUSH STEEL BEAM



NOTE:

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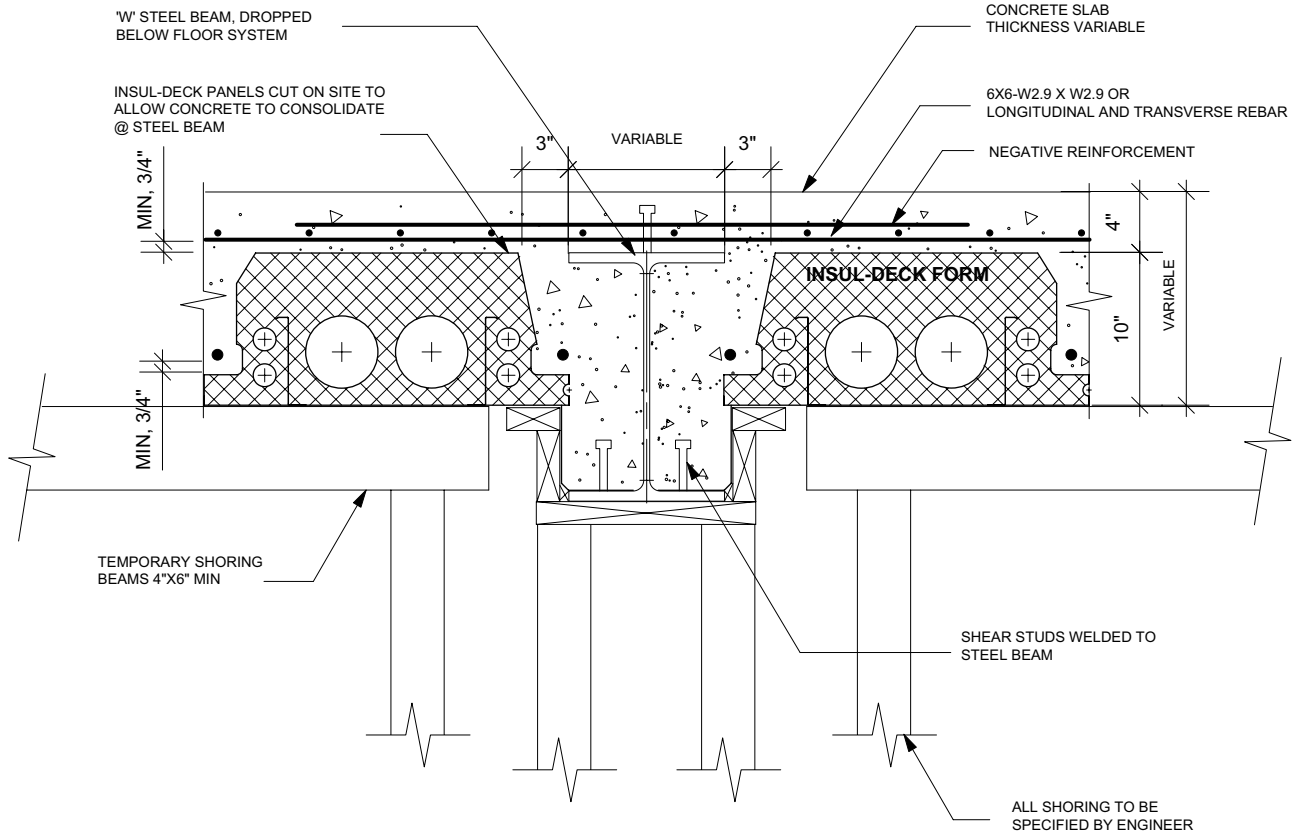
LONGITUDINAL SECTION @ FLUSH STEEL BEAM

DRAWN BY: MSH	REVISION DATE:
DATE: 05/01/2012	SCALE: 1" = 1'-0"

DETAIL NO: INS-031

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

TRANSVERSE SECTION @ PARTIAL DROP STEEL BEAM



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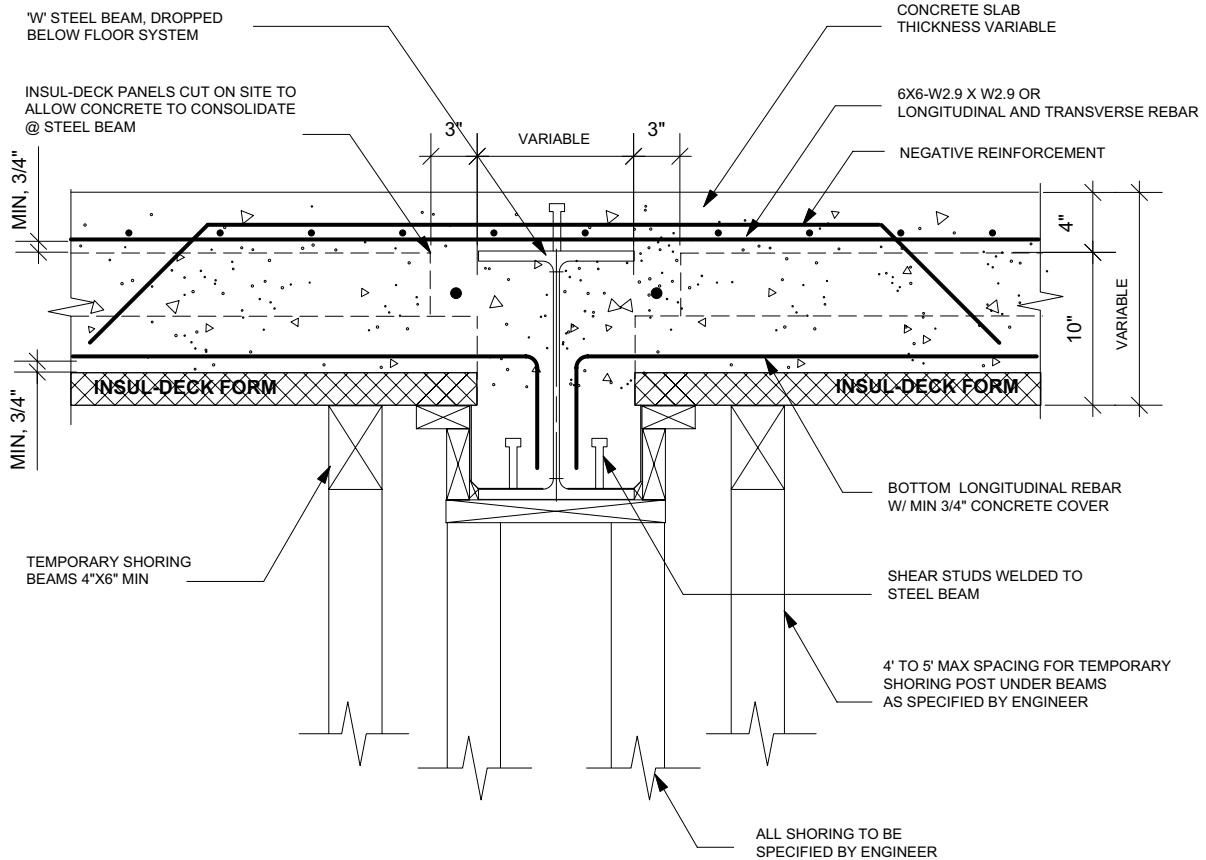
TRANSVERSE SECTION @ PARTIAL DROP STEEL BEAM

DRAWN BY: MSH	REVISION DATE:
DATE: 05/01/2012	SCALE: 1" = 1'-0"

DETAIL NO: INS-032

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

LONGITUDINAL SECTION @ PARTIAL DROP STEEL BEAM



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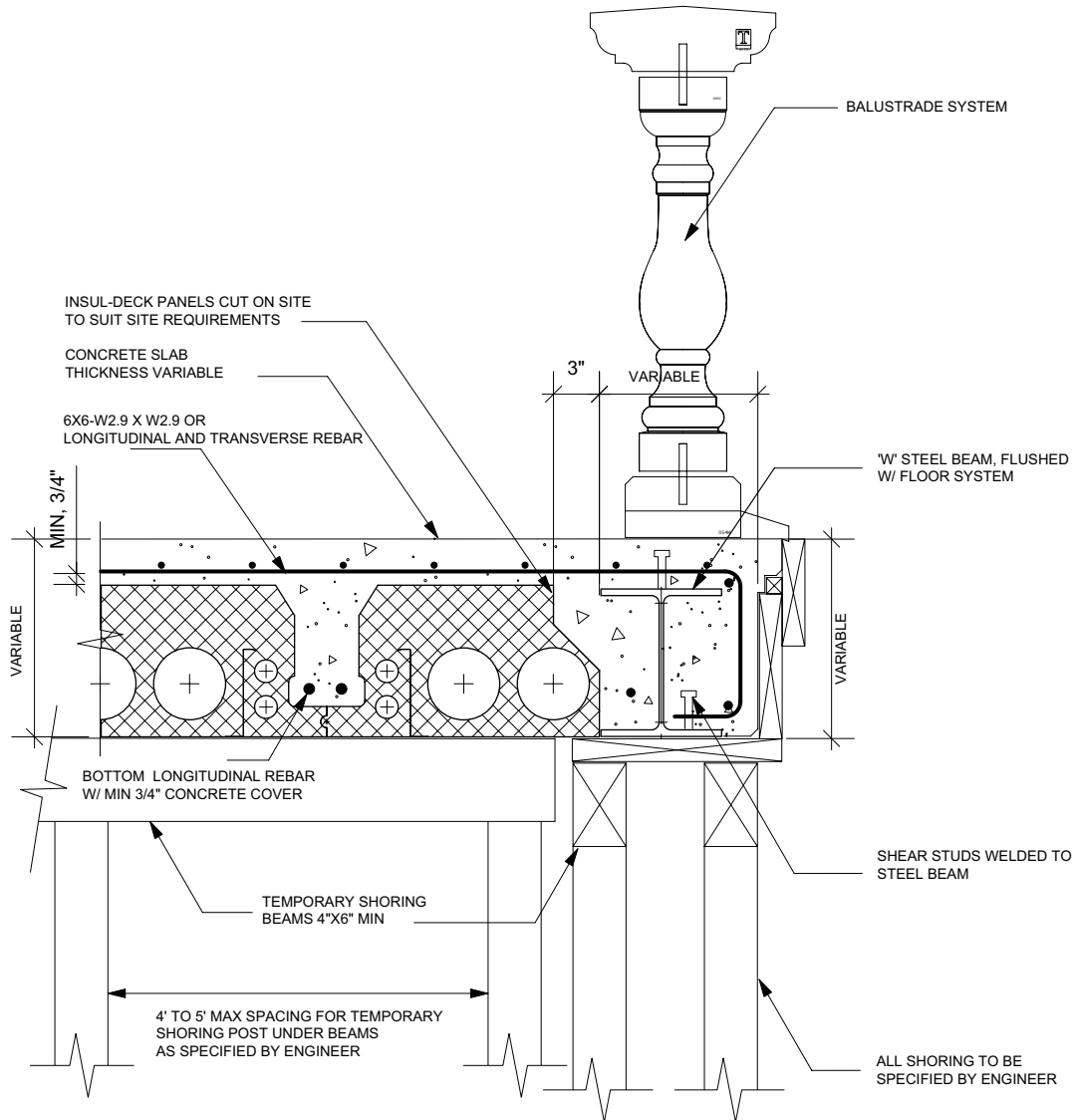
LONGITUDINAL SECTION @ PARTIAL DROP STEEL BEAM

DRAWN BY: MSH	REVISION DATE:
DATE: 05/01/2012	SCALE: 1" = 1'-0"

DETAIL NO: INS-033

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

SECTION @ PORCH PERIMETER WITH FLUSH STEEL BEAM



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TRANSVERSE SECTION @
 PORCH PERIMETER W/ STEEL BEAM

DRAWN BY: MSH

REVISION DATE:

DATE: 05/01/2012

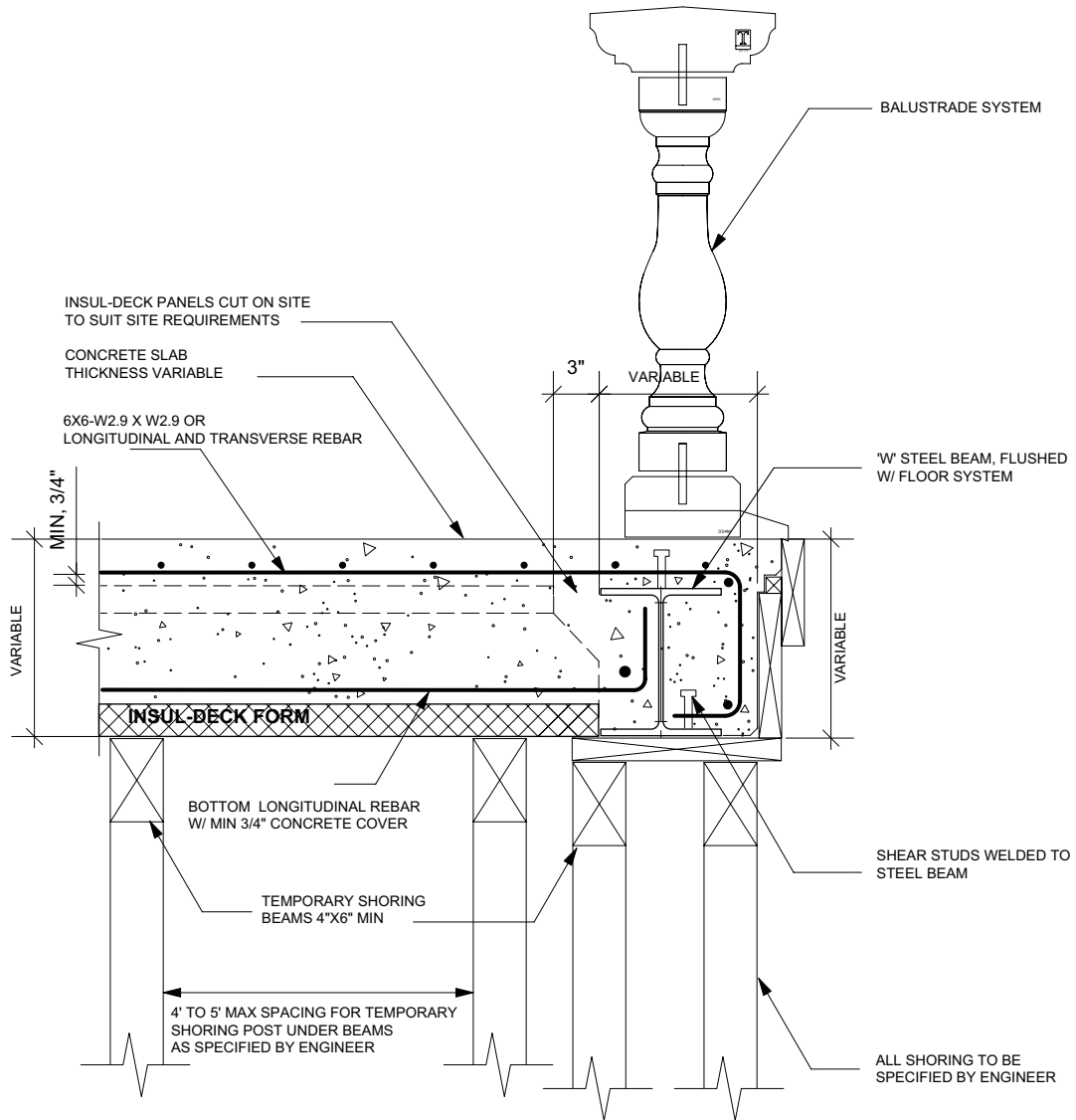
SCALE: 1" = 1'-0"

DETAIL NO:

INS-034

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

SECTION @ PORCH PERIMETER WITH FLUSH STEEL BEAM



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LONGITUDINAL SECTION @
 PORCH PERIMETER W/ STEEL BEAM

DRAWN BY: MSH

REVISION DATE:

DATE: 05/01/2012

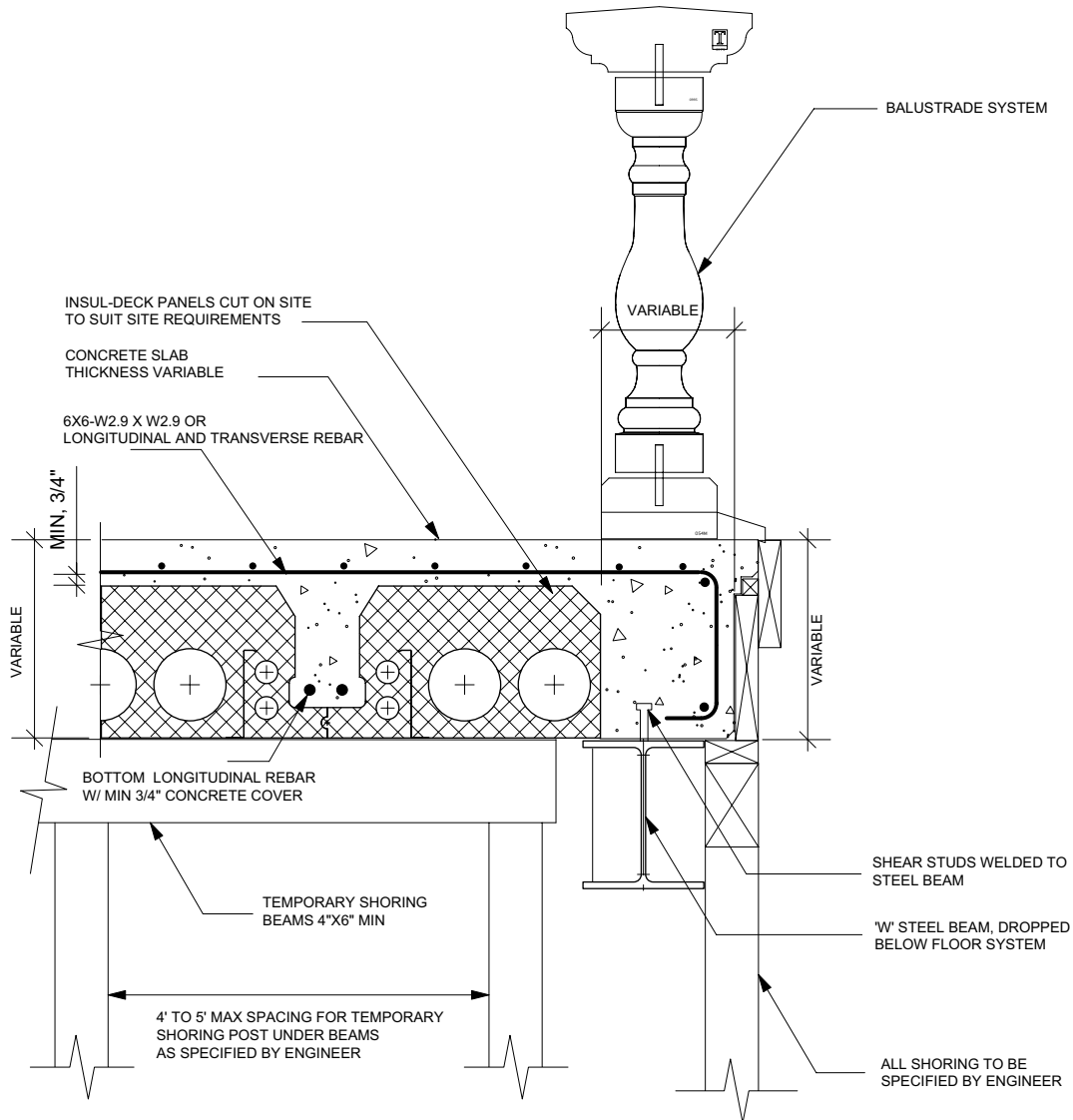
SCALE: 1" = 1'-0"

DETAIL NO:

INS-035

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

SECTION @ PORCH PERIMETER WITH DROPPED STEEL BEAM



NOTE:
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TRANSVERSE SECTION @ PORCH PERIMETER, DROPPED STEEL BEAM

DRAWN BY: MSH

REVISION DATE:

DATE: 05/01/2012

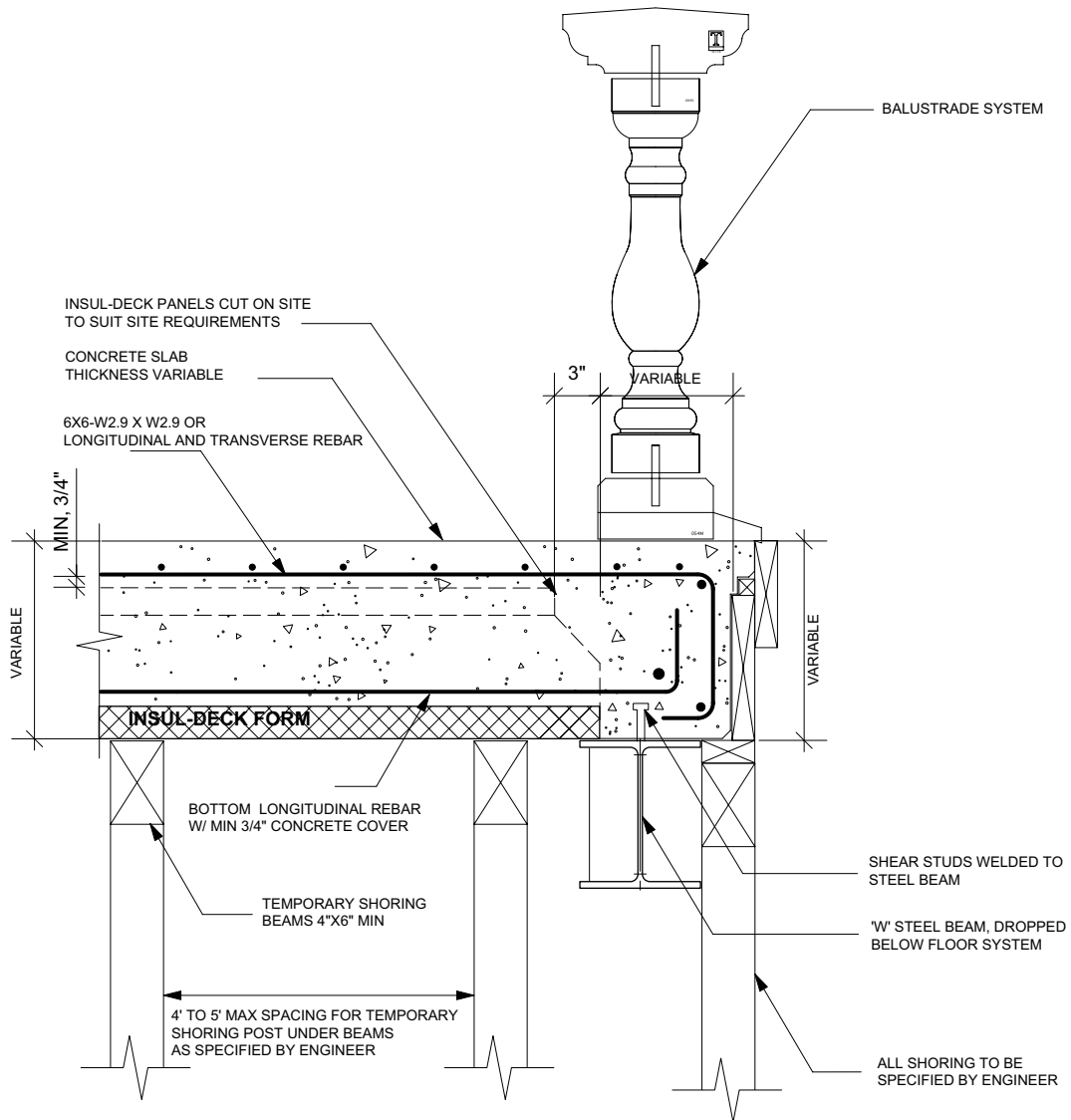
SCALE: 1" = 1'-0"

DETAIL NO:

INS-036

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

SECTION @ PORCH PERIMETER WITH DROPPED STEEL BEAM



NOTE:
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LONGITUDINAL SECTION @
 PORCH PERIMETER W/STEEL BEAM

DRAWN BY: MSH

REVISION DATE:

DATE: 05/01/2012

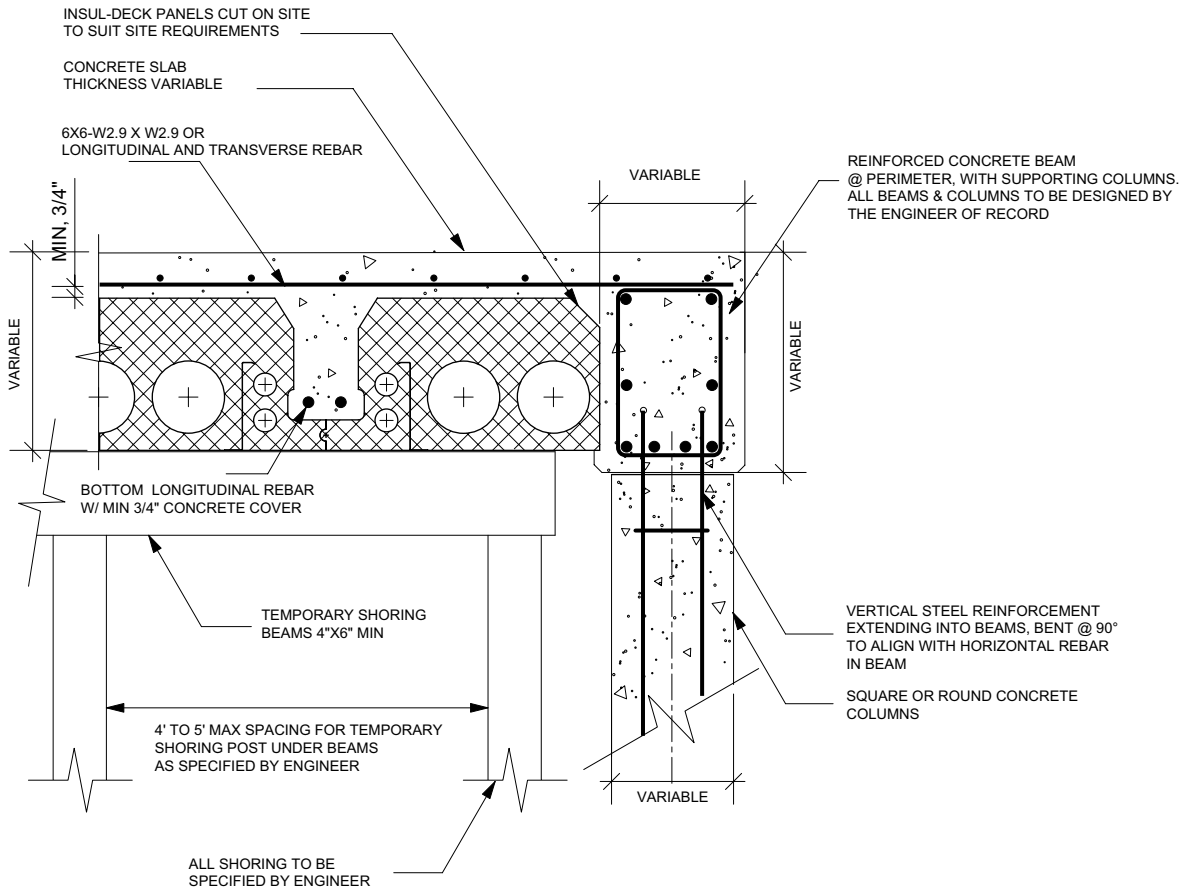
SCALE: 1" = 1'-0"

DETAIL NO:

INS-037

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

TRANSVERSE SECTION @ PERIMETER BEAM & COLUMN



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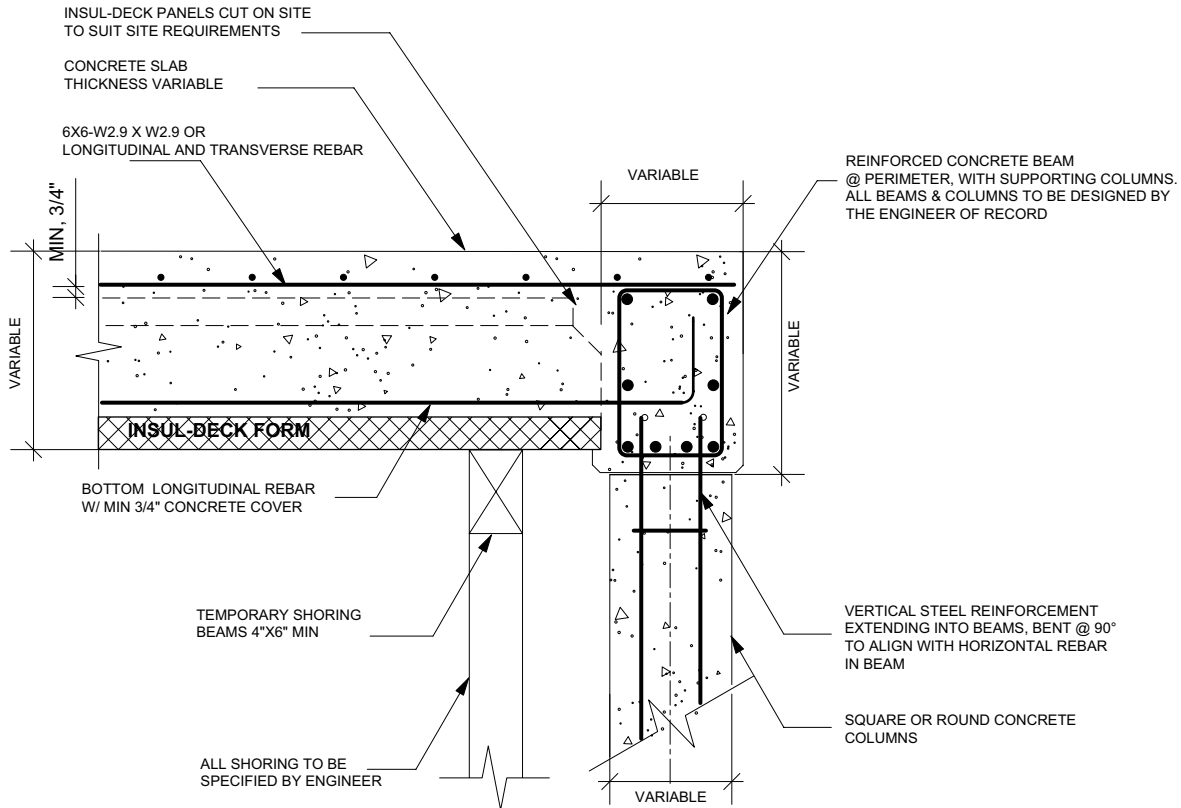
TRANSVERSE SECTION @ PERIMETER BEAM & COLUMN

DRAWN BY: MSH	REVISION DATE:
DATE: 05/01/2012	SCALE: 1" = 1'-0"

DETAIL NO: INS-038

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

LONGITUDINAL SECTION @ PERIMETER BEAM & COLUMN



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LONGITUDINAL SECTION @
 PERIMETER BEAM & COLUMN

DRAWN BY: MSH

REVISION DATE:

DATE: 05/01/2012

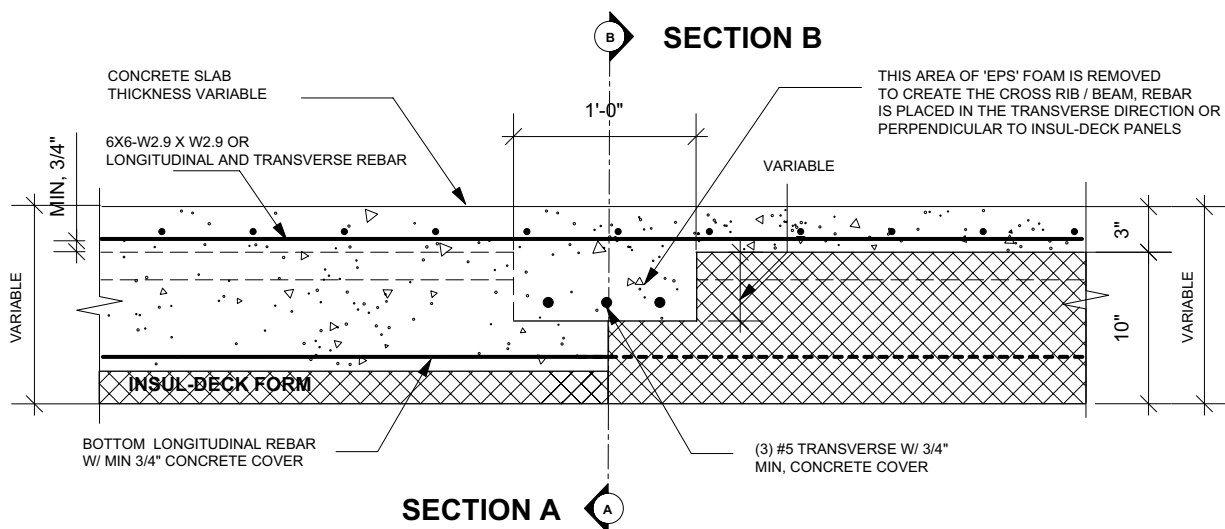
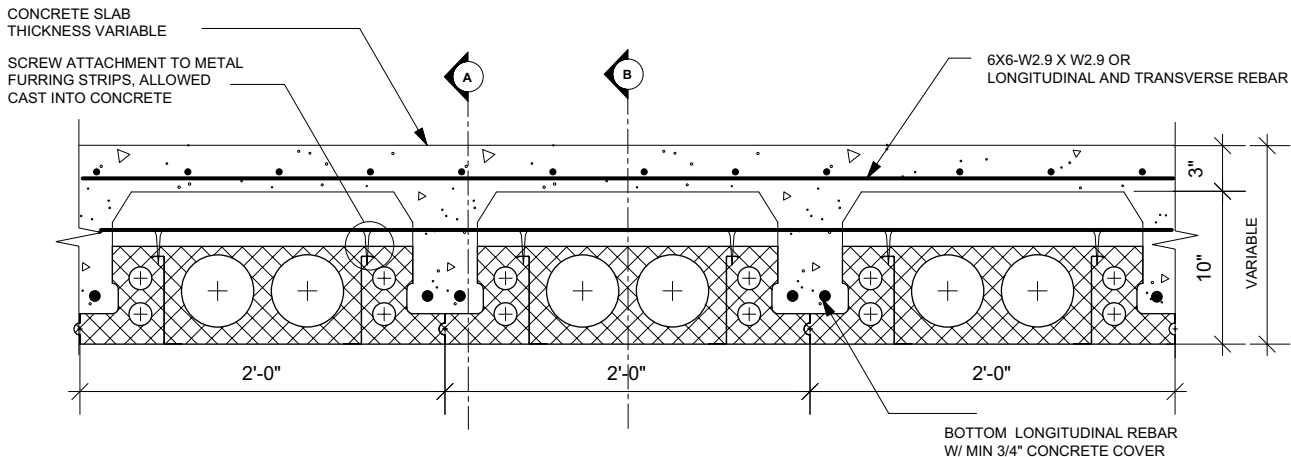
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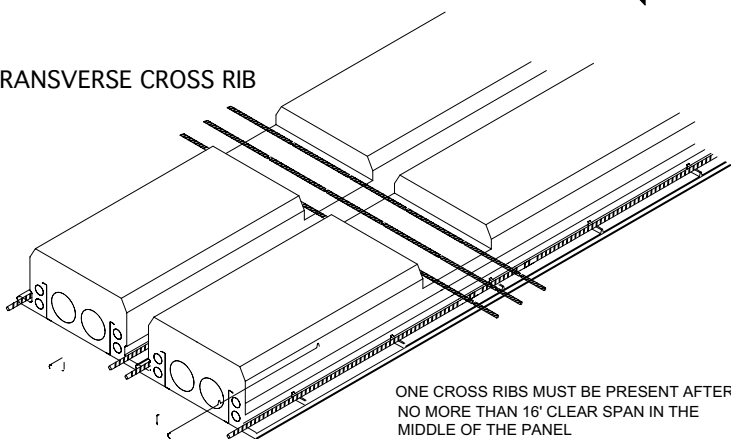
INS-039

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

TRANSVERSE CROSS RIB / BEAM



TRANSVERSE CROSS RIB



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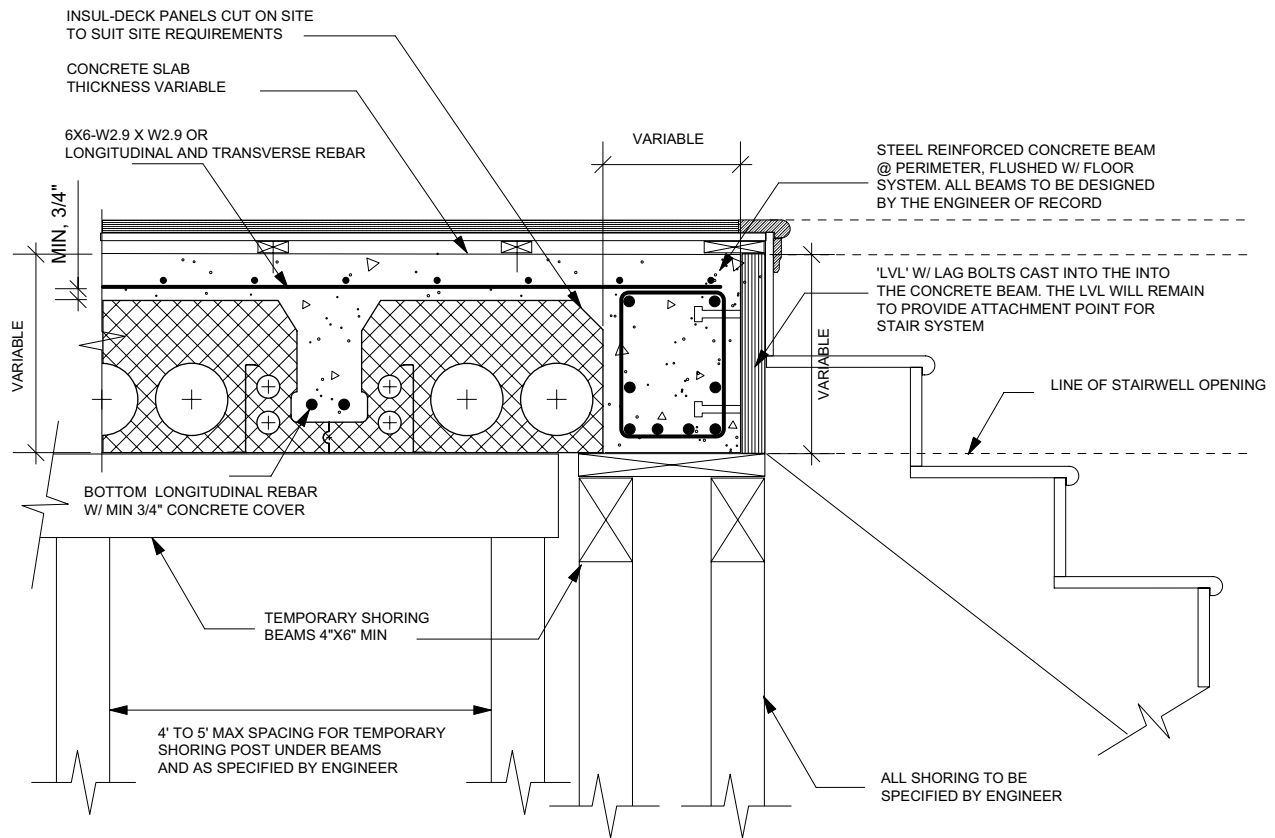
TRANSVERSE CROSS RIB / BEAM

DRAWN BY:	MSH	REVISION DATE:	
DATE:	05/01/2012	SCALE:	1" = 1'-0"

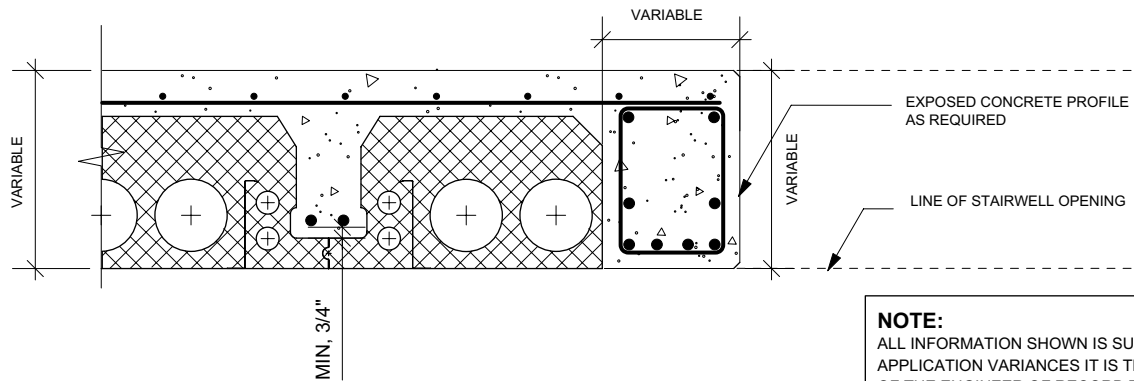
DETAIL NO: **INS-040**

DUE TO VARIANCES IN LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS ALL DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUCH LOCAL CODES, CONSTRUCTION PRACTICES, AND REQUIREMENTS REGARDLESS OF DETAIL CONSTRUCTION SHOWN IN DRAWING. INSUL-DECK, LLC RESERVES THE RIGHT TO CHANGE INFORMATION SHOWN WITHOUT NOTICE.

TRANSVERSE SECTION @ STAIRWELL PENETRATION



ALTERNATE DETAIL



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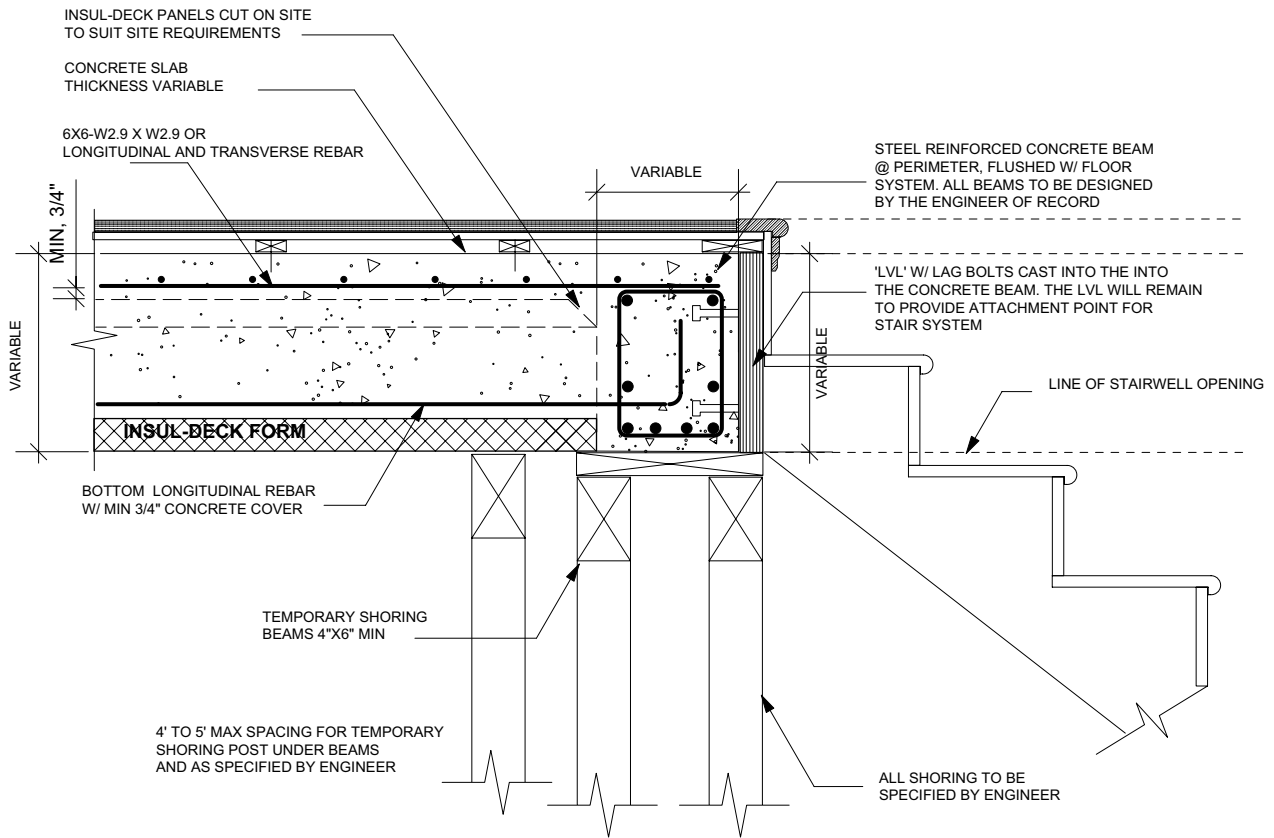
TRANSVERSE SECTION @ STAIRWELL PENETRATION

DRAWN BY: MSH	REVISION DATE:
DATE: 05/01/2012	SCALE: 1" = 1'-0"

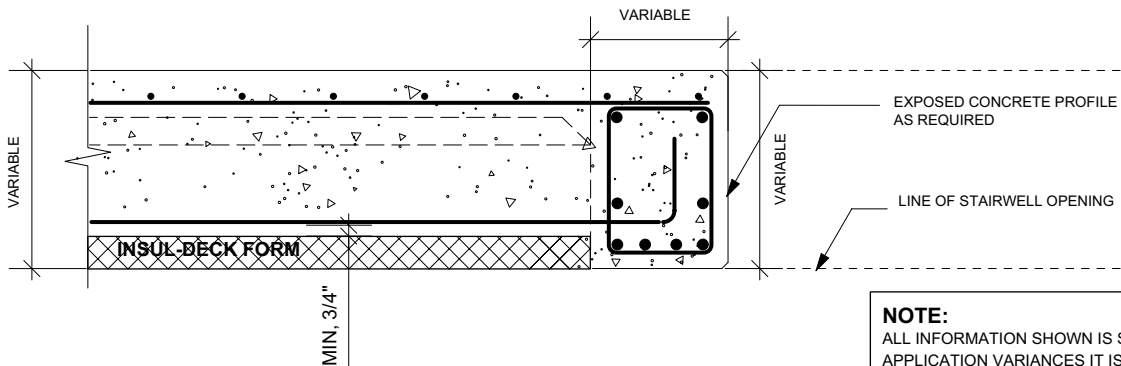
DETAIL NO: INS-041

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LONGITUDINAL SECTION @ STAIRWELL PENETRATION



ALTERNATE DETAIL



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LONGITUDINAL SECTION @ STAIRWELL PENETRATION

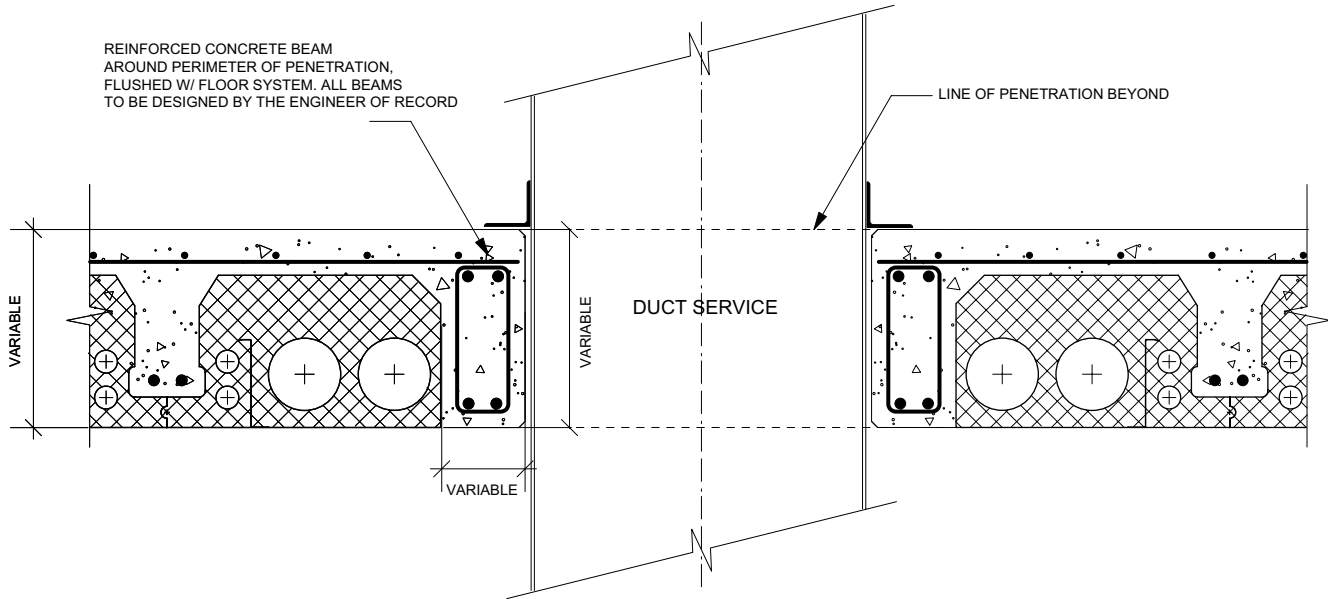
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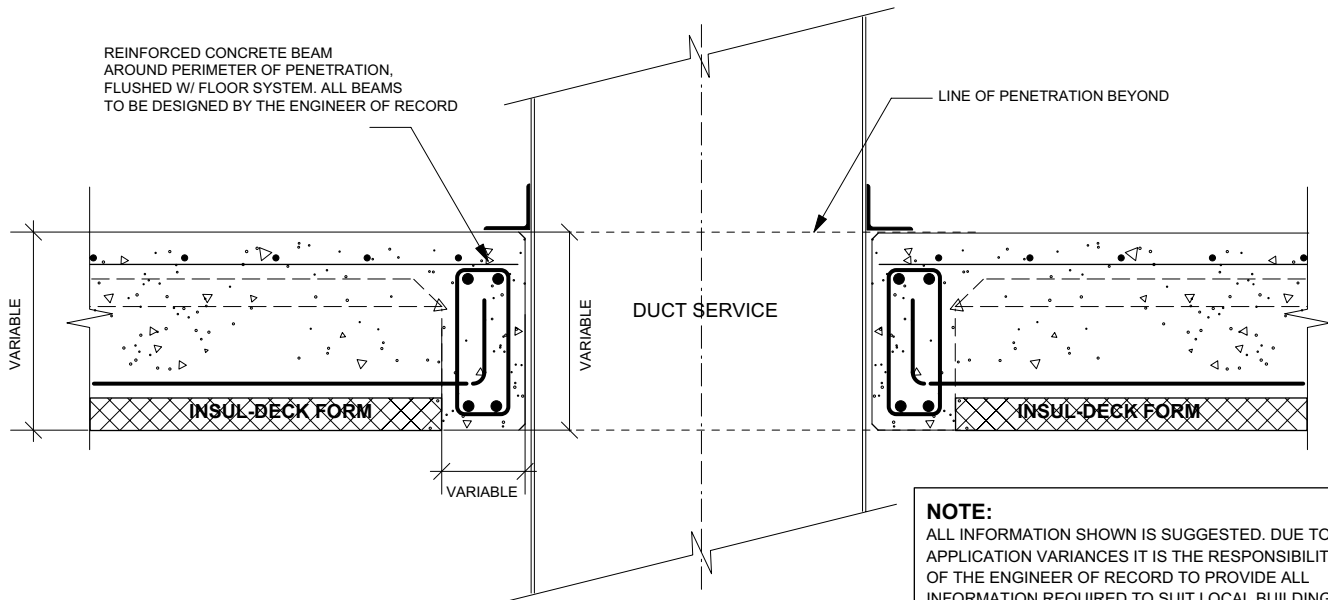
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SECTION @ DUCT SERVICE PENETRATION

TRANSVERSE SECTION



LONGITUDINAL SECTION



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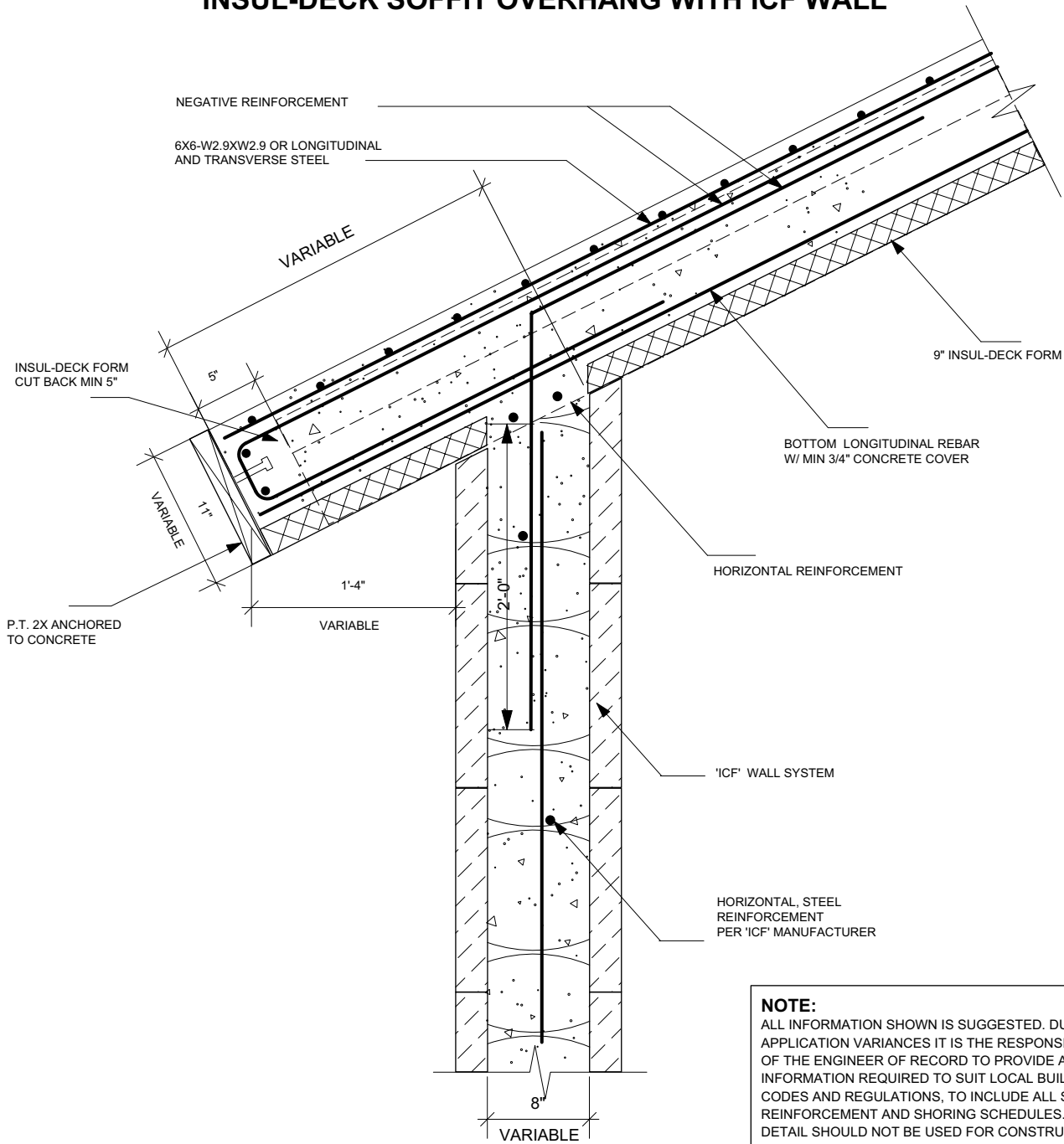
SECTION @ DUCT PENETRATION

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DETAIL NO: INS-043

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INSUL-DECK SOFFIT OVERHANG WITH ICF WALL



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DATE: 05/01/2012

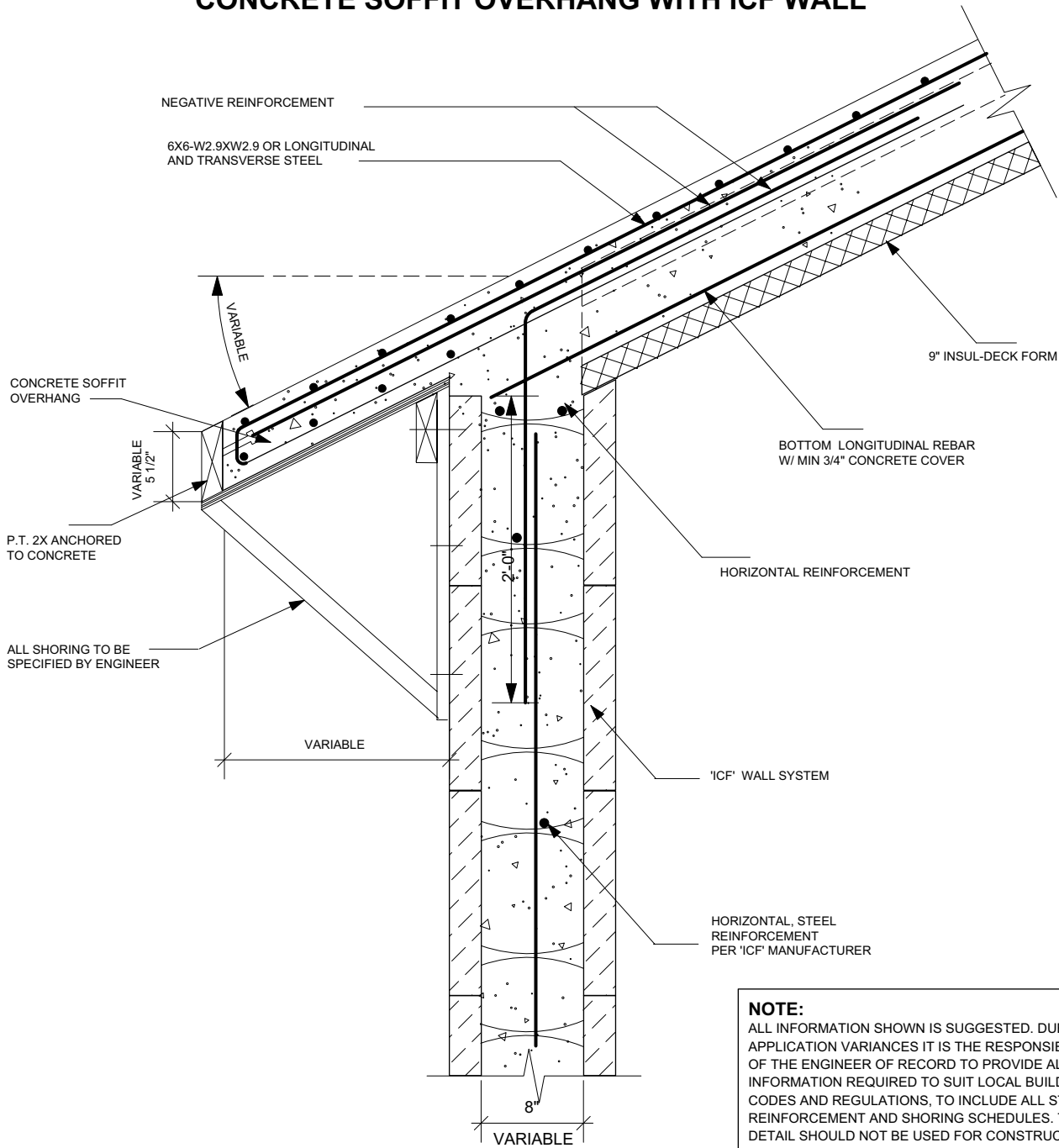
SCALE: 1" = 1'-0"

DETAIL NO:

INS-044

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CONCRETE SOFFIT OVERHANG WITH ICF WALL



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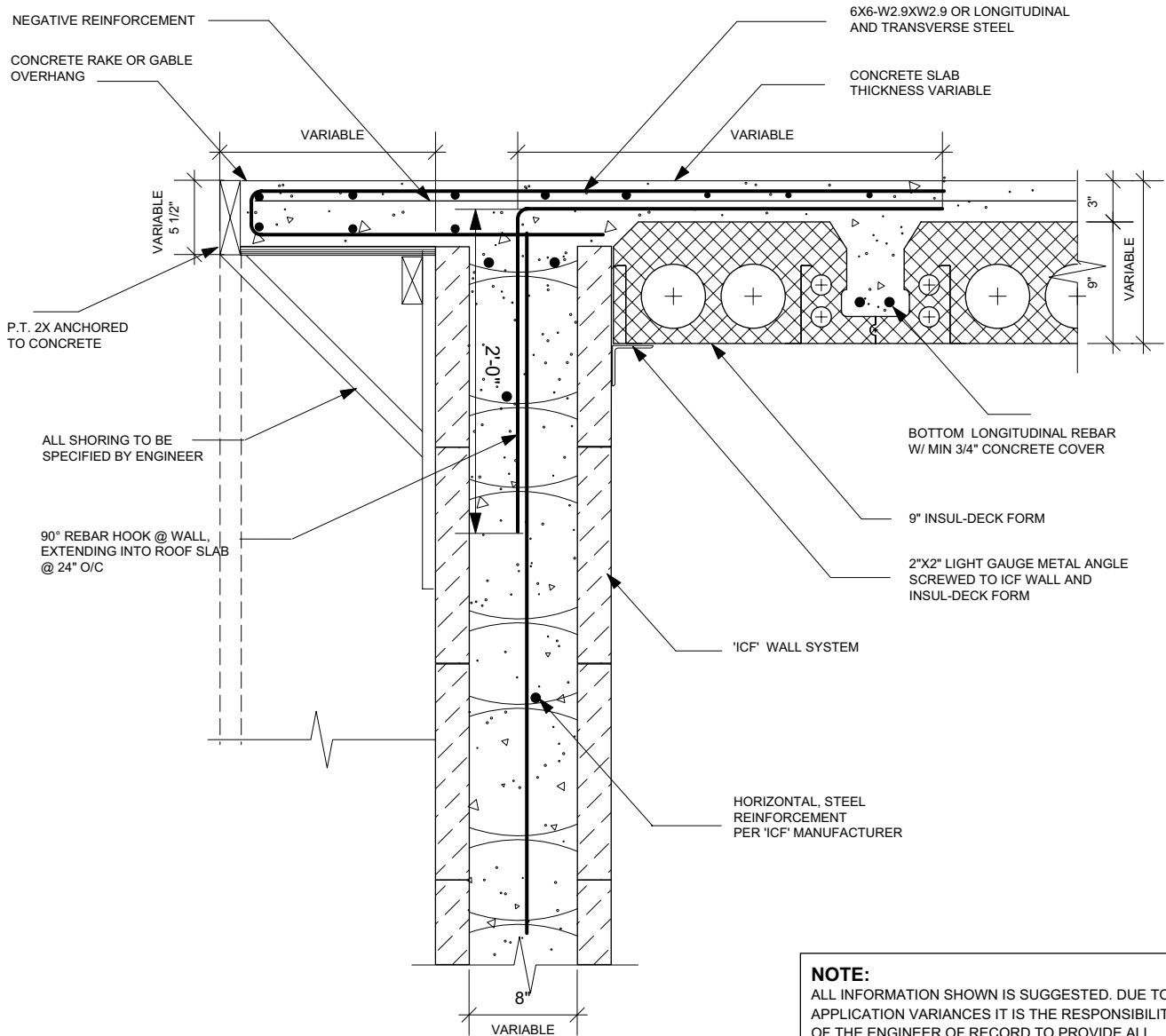
SCALE: 1" = 1'-0"

DETAIL NO:

INS-045

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CONCRETE RAKE OR GABLE OVERHANG WITH ICF WALL



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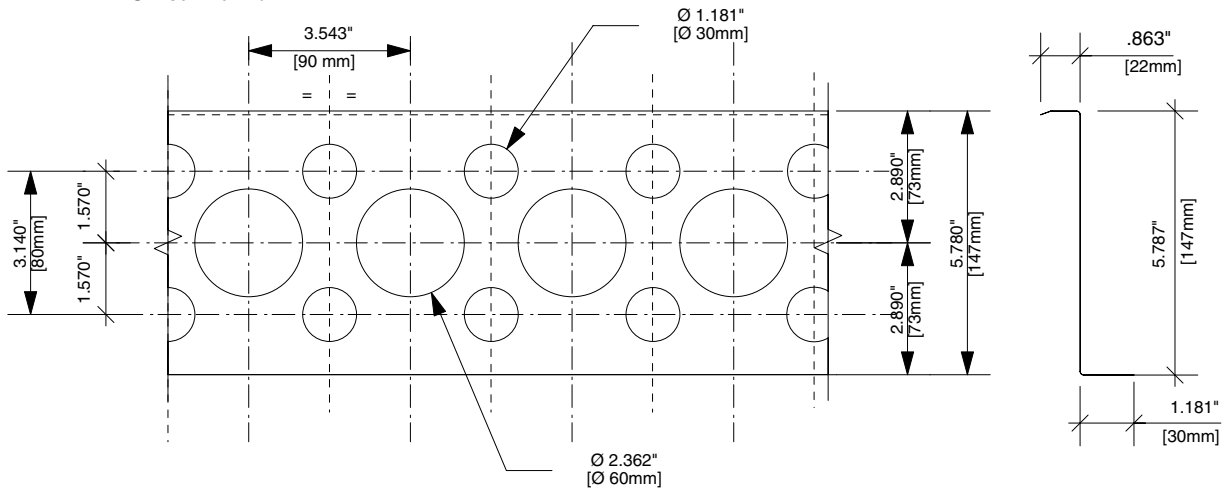
DRAWN BY: MSH	REVISION DATE:
DATE: 05/01/2012	SCALE: 1" = 1'-0"

DETAIL NO: INS-046

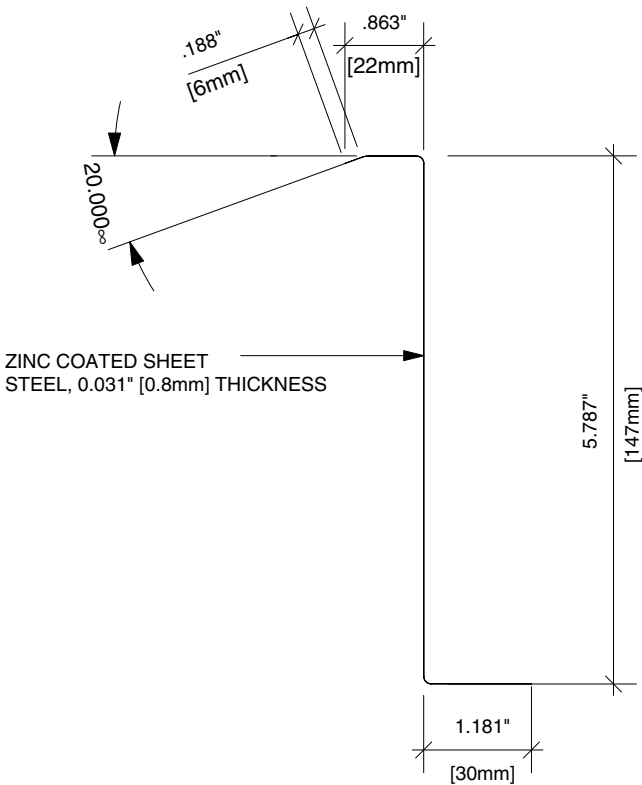
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METAL INSERT (FURRING STRIP) PROFILE

ELEVATION SCALE 3": 1'-0"



SECTION PROFILE SCALE 1: 2



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SCALE:

DETAIL NO:

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