

# CONFORM INSTALLATION NOTES

## 7. HOT WEATHER REQUIREMENTS

- .1 **CONCRETE SLUMP:** THE CONCRETE PLACED IN WALLS USING CONFORM SHALL BE PROVIDED FOR HOT WEATHER IN ACCORDANCE WITH THE REQUIREMENTS OF CAN/CSA A23.1 OR ACI 318. IN ORDER TO MAINTAIN THE WORKABILITY OF THE CONCRETE, TYPICALLY, THE CONCRETE SLUMP IS INCREASED DURING HOT WEATHER DUE TO THE RAPID RATE OF EVAPORATION.
- .2 **RATE OF CONCRETE PLACEMENT:** THE USE OF HIGHER SLUMP CONCRETE IN HOT WEATHER MEANS THAT THERE IS MORE WATER IN THE MIXTURE AND THE HYDRAULIC PRESSURE FROM THE CONCRETE IS INCREASED. THE CONCRETE SHOULD BE PLACED IN LIFTS OF 1.5m (5'-0") TO 2.0m (6'-8") AND/OR PLACED AT A SLOWER RATE, IN ORDER TO MINIMIZE THE HYDRAULIC PRESSURE. IN ADDITION, AT EACH SIDE OF DOORS AND OPENINGS AND IN EACH LEG OF WALLS AT CORNERS AND INTERSECTIONS, THE CONCRETE SHOULD BE PLACED TO HALF THE HEIGHT AND ALLOWED TO SET PRIOR TO FILLING THE WALLS, FULL HEIGHT.
- .3 **WETTING OF WALLS : THE INSIDE OF THE WALLS SHALL BE SPRAYED WITH WATER JUST PRIOR TO PLACING CONCRETE.** THIS WILL COOL THE WALLS TO PREVENT RAPID EVAPORATION OF MOISTURE FROM THE CONCRETE AND WILL LUBRICATE THE SURFACE OF THE WALL TO INCREASE THE WORKABILITY AND FLOW OF THE CONCRETE IN THE COMPONENTS
- .4 **ADDITIONAL BRACING:** THE HIGHER SLUMP USED IN HOT WEATHER CAN CAUSE AN INCREASE IN THE LATERAL HYDRAULIC PRESSURES AND THAT CAUSES INCREASED LATERAL MOVEMENT OF THE WALLS DURING CONCRETE PLACEMENT. ADDITIONAL BRACING IS RECOMMENDED AT CORNERS, OPENINGS, INTERSECTIONS AND OTHER WALL LOCATIONS WHERE THE CONCRETE PRESSURE IS FROM ONE SIDE ONLY.
- .5 **BOWING OF COMPONENT FACE:** THE HIGHER SLUMP USED IN HOT WEATHER CAN CAUSE ADDITIONAL BOWING OF THE FACE OF THE CONFORM COMPONENTS, ESPECIALLY AT BOX CONNECTORS AND CORNER BOXES. A REDUCTION IN THE HEIGHT OF THE CONCRETE LIFTS AND/OR A SLOWER RATE OF PLACEMENT WILL REDUCE THE BOWING AND PROVIDE A FLATTER WALL SURFACE.

- DETAIL FOR FORMWORK ONLY

- ALL DETAILS, REINFORCING STEEL & CONCRETE MUST BE DESIGNED & CONFIRMED BY PROJECT STRUCTURAL ENGINEER AND / OR PROJECT ARCHITECT.



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## CONFORM INSTALLATION - NOTE 7



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SCALE:

2":1'

REVISION No.:

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