

Josh Gennings

From: Caitlin Luo <luoc@ae.ca>
Sent: Thursday, January 19, 2017 8:16 AM
To: Lindsay Poitras
Cc: Carma Holmes
Subject: RE: Photos
Attachments: Harbour Pool-joint on concrete slab.pdf; Harbour Pool-other joints.pdf

Hi Lindsay,

We have reviewed the existing structural drawings and the photos you sent. It appears that the joint along grid line 2 is a construction joint within the slab on grade (see the first attachment). The epoxy to be injected at this joint should have capacity to allow some movement.

The vertical crack found along the beam at the construction joint should also be repaired.

The other three locations you showed me are also joints (see the second attachment). Similar to the joint along grid line 2, the epoxy to be injected at these joint should allow some movement.

Caitlin Luo, P.Eng.
structural engineer

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-----Original Message-----

From: Lindsay Poitras [mailto:LPoitras@fortsask.ca]

Sent: January-18-17 3:18 PM

To: Caitlin Luo

Subject: Photos

Good Afternoon Caitlin.

I have taken photos of the basement below the one area of the pool deck. The drawings would be correct that this is a slab on grade area. I have included a picture of the crack that would be where the slab meets the structure wall in the basement.

Please let me know if there is anything else.

Lindsay Poitras
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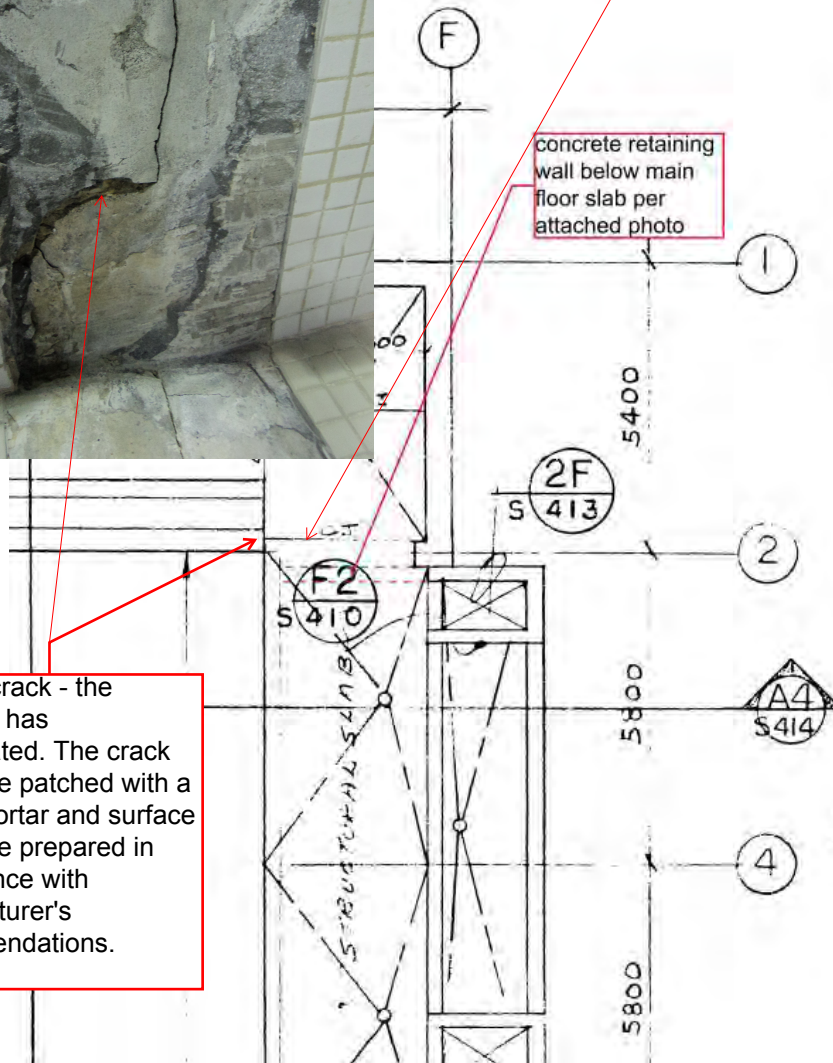
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construction joint

concrete retaining wall below main floor slab per attached photo

vertical crack - the concrete has deteriorated. The crack should be patched with a repair mortar and surface should be prepared in accordance with manufacturer's recommendations.



CONDENSED SPECIFICATIONS

All slabs on grade for the project shall be constructed as follows:

Sub-Base - Native soil mechanically compacted with compacting/vibratory equipment, and the addition of water to provide the required moisture content, to attain and maintain a density of 100% Standard Proctor Density.

Base - 100mm Gravel as per specifications, or acceptable native soil (silty sand), as per Special Instructions to Bidders, mechanically compacted as sub-base above.

Moisture Barrier - 4 mil polyethelene film.

Concrete Slab - Ground Level: 125mm thick concrete slab.
- Basement: 150mm thick concrete slab.

Reinforcing - Top Layer: 150 x 150 P13/P13 WWM
Bottom Layer: 15M bars at 400mm centers both ways, supported off the poly by metalor plastic supports, 35mm off the bottom of slab.

Finish - All areas, steel trowel finish, to slopes indicated on the drawings. The finish is also applicable for all structural slabs in the Pool area and the upper level Mechanical Room, and the exposed surfaces of all walls.

Hardener - The following rooms shall have non-metallic hardener on their floors, as per specifications: Rooms 123, 125, 126, 127, 130.

Expansion Joints (EJ) - Saw cuts 40mm deep where shown on the drawings. Cut to extend clear through the end of the slab. If that is not possible, an artificial breaker shall be placed in the end of cut during the pouring of slab. Care should be taken not to damage the PVC Deck Drain during the cutting.

Construction Joints (CJ) - Full bulkhead between two slabs or slab and foundation wall, and having a 10mm thick joint filler between the two surfaces.

NOTE: For Pool base and walls and other structural portions of this project, see specific details for expansion and construction

concrete wall below
main floor slab

















