

RFI 13

Project: COOLEY LABORATORY RENOVATION
Job: 3146 COOLEY LAB, PPA# 10-0023
Customer: STOFMT MSU BOZEMAN

POTENTIAL IMPACTS
Cost Impact: Yes
Schedule Impact: No

Issued To: CONSTRUCTION MANAGEMENT SERV.
P.O. BOX 7274
BOZEMAN, MT 59715

Attention: DONALD J. PLATISHA
Phone/Fax: 406 585-0611 / 406 585-2698

Coordination copies to:

Item: Bentonite Waterproofing Type: ARCH/STRUC

Reference: B/A5.1, B/A5.2 Spec. Section:

Attachments:

Description of Request

Question:

Is the use of bentonite clay waterproofing over dampproofing needed at the the elevator addition foundation walls. The elevator addition foundation walls will be surrounded on all three sides by a 10" to 12" shotcrete shoring wall and will be backfilled using +/-3' of followable fill, this will serve as a formidable waterproofing system.

Recommendation:

Remove the use of the bentonite clay waterproofing from the project and use only the dampproofing system. The cost savings to the owner will be \$2,150.00. If bentonite panels are still desired we recommend the use of waterstop between the lower concrete grade beams and lower slab on grade, and between lower walls and slab on grade. If water is a concern there is no reason it will not run down the foundation walls to the lower slab on grade and run up the expansion joint.

Respond By: 08/15/11 By: TIM THOLT

Response

The bentonite waterproofing was specified in response to recommendations contained in the Owner's Geotechnical report which identifies the potential for fluctuating water levels and seepage. The bentonite was an alternative to a perimeter collection system.

We agree in principle that the foundation is at minimal risk for water infiltration especially given the shoring method and the backfill.

We cannot however unilaterally ignore the Geotechnical recommendations but welcome a discussion with DAC and MSU where we can agree on a course of action.

Note that RX water stop and trowel on bentonite are part of the overall system that is specified for all foundation walls at both levels.

Signed: FJ di Stefano

Date: 8-11-11

Proceed as Indicated:

Date:

Owner Authorized Representative