



MEMORANDUM

To: Mr. Johnnie Mack, PE - HDR

From: Byron Anderson, PG, CEG - Kleinfelder

Pages: 1

Date: 08/9/2010

Re: Revised Typical Seepage Berm Configuration, Plate 5-2

GBODR – Upper Yuba River

Levee Improvement Project, Yuba River South Levee Evaluation

Yuba County, California

File No.: 104634

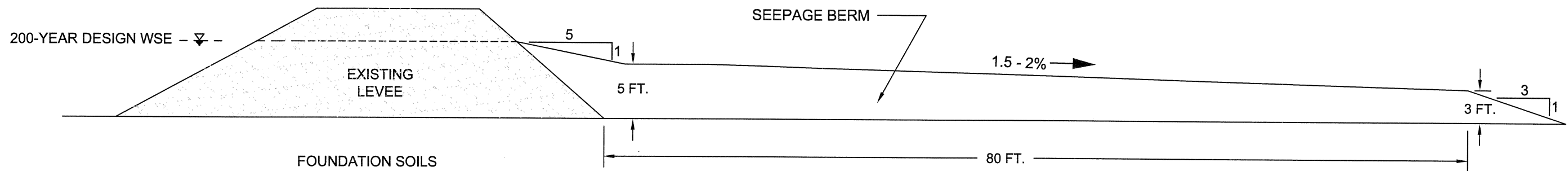
This memorandum provides a revised version of Plate 5-2 that was included in Kleinfelder's Revised Geotechnical Basis of Design Report, dated June 11, 2010. Please replace the existing copy of Plate 5-2 in the June 11th report with the updated version attached to this memorandum.

Should you have questions or comments regarding this request, or have additional geotechnical issues that need clarification please contact Tim Williams or Byron Anderson at (916) 366-1701.

cc: Mr. Larry Dacus, PE – MBK Engineers

WATERSIDE

LANDSIDE




Notes:

1. Undrained seepage berm material should generally meet the following requirements:
 - >50% passing #4 sieve
 - No limit passing #200 sieve
 - No limit to liquid limit and plasticity index
2. The undrained seepage berm should have a minimum thickness of 3 feet at the end of the berm and a minimum thickness of 5 feet at the levee toe.
3. The top of the undrained seepage berm should slope downward towards the berm toe at a minimum slope of 1.5%.
4. The undrained stability berm should have a side slope of 5H to 1V.
5. The top of the undrained stability berm should be equal to the design 200-yr WSE.
6. This detail is conceptual only and is intended to illustrate the conceptual mitigation shown at the schematic level only. It should not be used for final design.

NOT TO SCALE

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 <p>KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com</p>	PROJECT NO. 104634	<p>TYPICAL SEEPAGE BERM CONFIGURATION</p>	PLATE
	DRAWN: 12/10/2009		<p>GEOTECHNICAL BASIS OF DESIGN REPORT UPPER YUBA LEVEE IMPROVEMENT PROJECT YUBA RIVER SOUTH LEVEE EVALUATION YUBA COUNTY, CALIFORNIA</p>
DRAWN BY: D. Ross	CHECKED BY: CAW		
	FILE NAME: PLATE 5-2.dwg		