

Engineering West, L.L.C.

3785 North 1100 West
Pleasant View, UT 84414
(801) 643-5710

2 October 2013

MEMO:

RE: The Retreat Cul-de-sac
Rock Wall Design

Gentlemen:

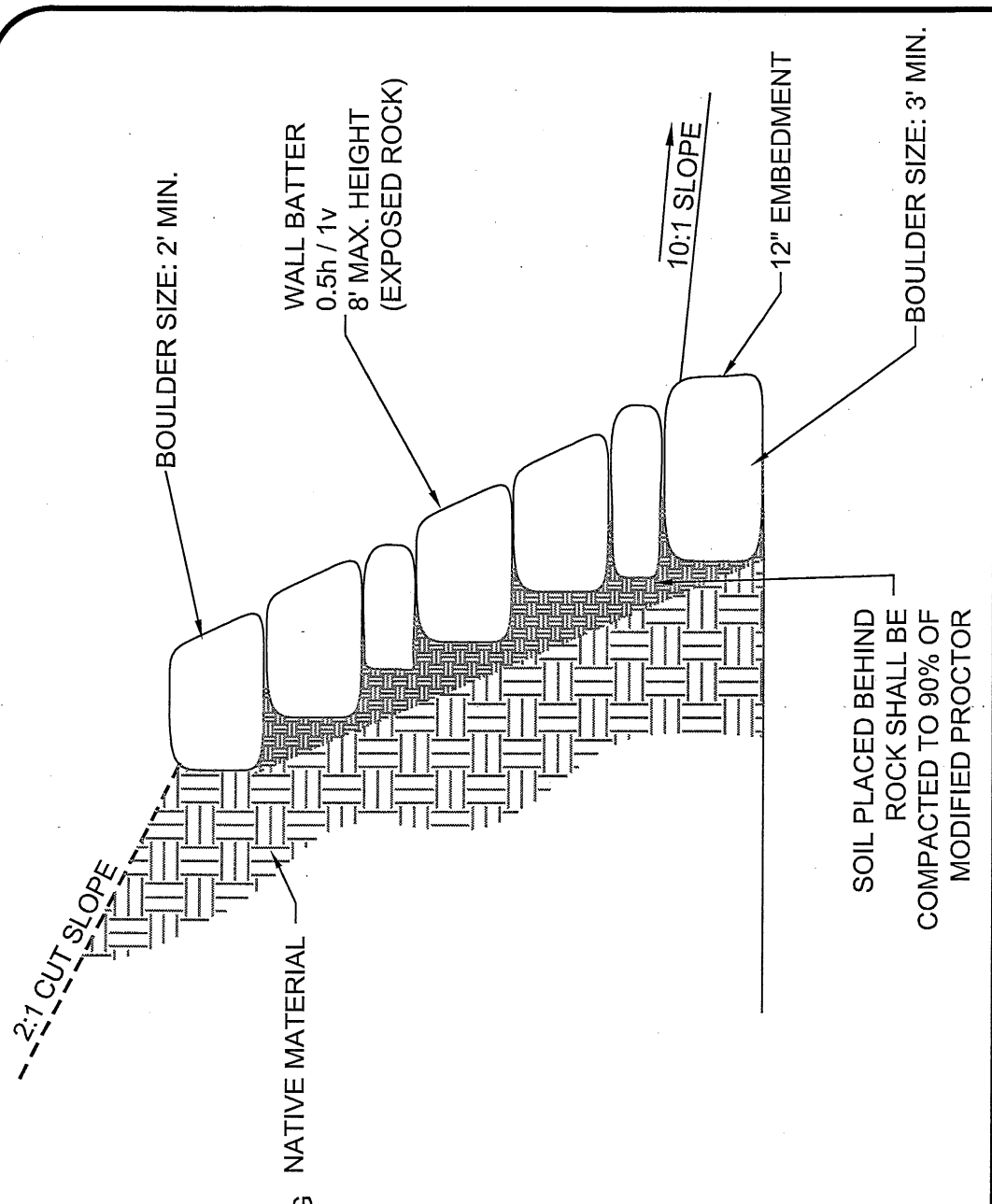
Attached is a stamped detail, and partial calculations, for the referenced rock wall.

If the details shown are followed the rock wall will be adequate up to 8'-0.

Respectfully,
Engineering West, L.L.C.

Steven J. Carlson, P.E.



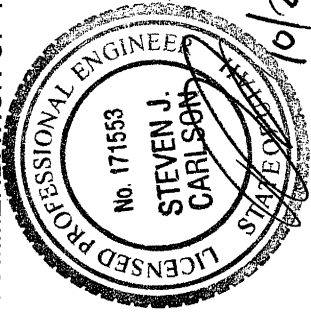


NOTE:

INFORMATION PROVIDED IN THIS DETAIL IS AN ILLUSTRATION AND SUMMARY OF THE DESIGN PROVIDED BY ENGINEERING WEST DATED OCTOBER 2, 2013.

MULHOLLAND DEVELOPMENT SOLUTIONS IS NOT RESPONSIBLE FOR THE DESIGN OF THE ROCK PROTECTED SLOPE.

PRIOR TO CONSTRUCTING ROCK PROTECTED SLOPE, CONTRACTOR SHALL COMPLY WITH THE DESIGN RECOMMENDATION OF THE REPORT.

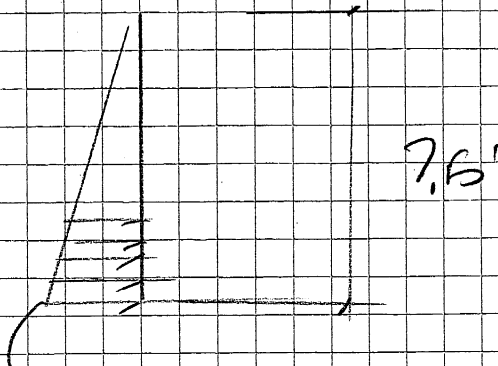


SOIL PLACED BEHIND ROCK SHALL BE COMPACTED TO 90% OF MODIFIED PROCTOR

ROCK PROTECTED SLOPE DETAIL

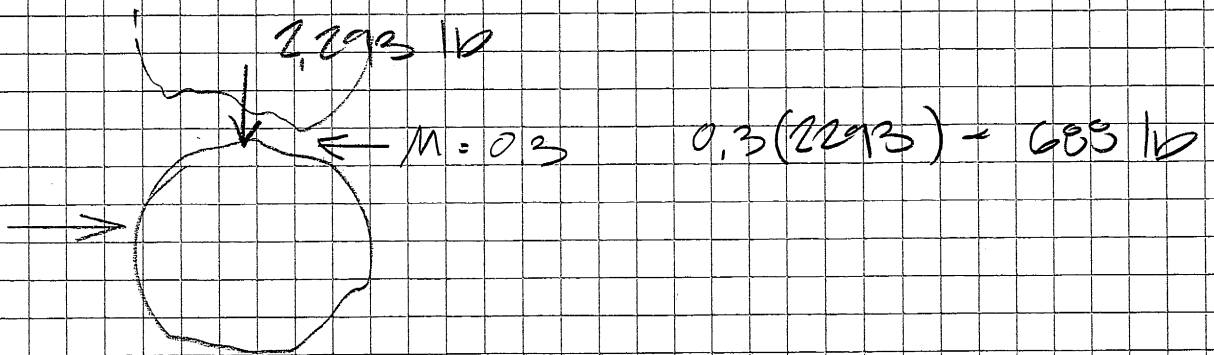
THE RETREAT / ROCK HAW

LATERAL FROM 2:1 CUT \leftarrow SURF



$$120(0.4) = 48 \text{ psf}$$

$$2293 \text{ lb}$$



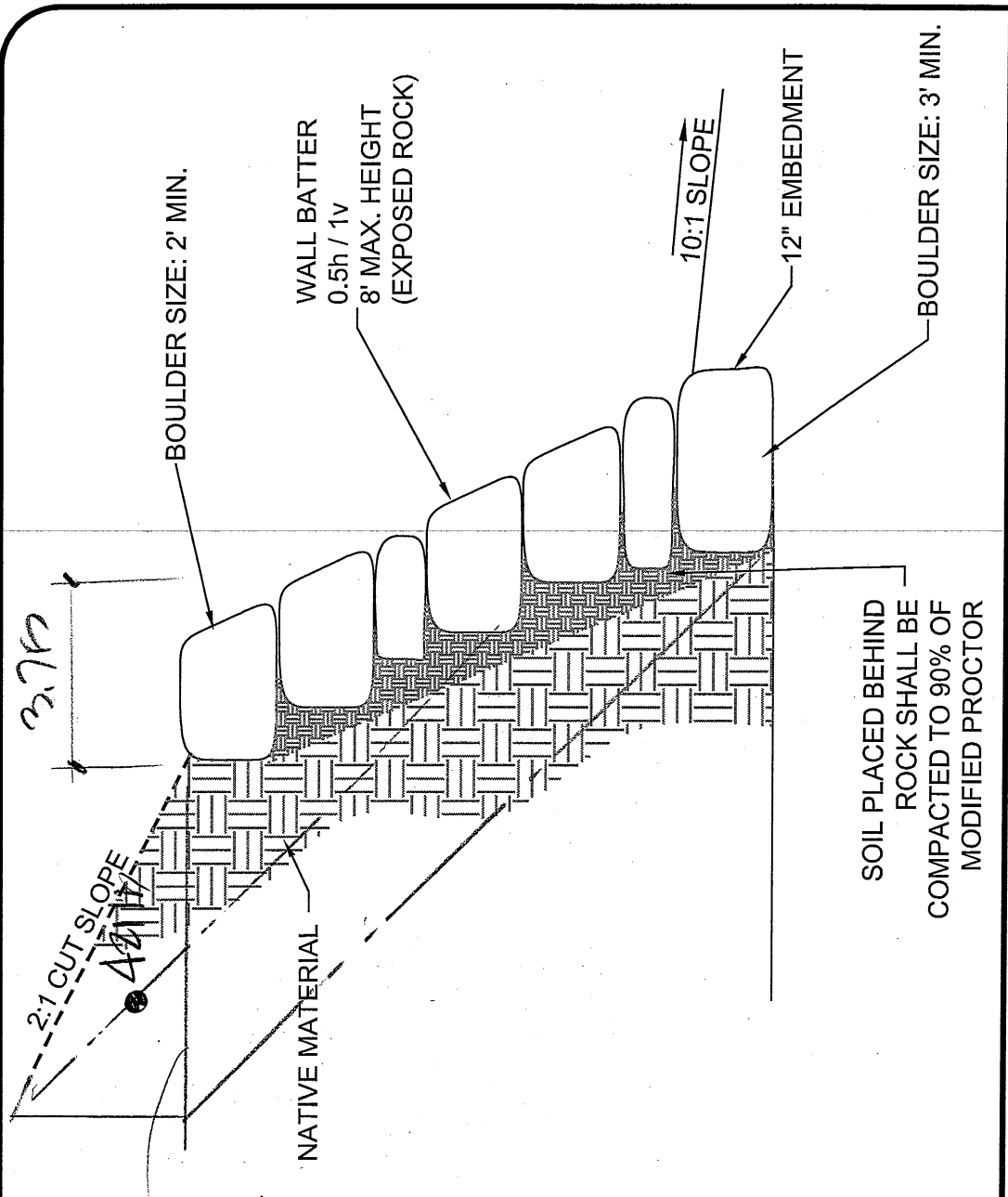
FORCE of ROCK

$$7.0606 \text{ ft}^2 (48) = 339 \text{ lb}$$

FORCE @ BASE \leftarrow SF SLIDING $\frac{688}{339} = 2.0$

$$48(7.5) \frac{1}{2} \left(\frac{2}{3}\right) = 120 \text{ lb } 9\%$$

9:30



NOTE:

INFORMATION PROVIDED IN THIS DETAIL IS AN ILLUSTRATION AND SUMMARY OF THE DESIGN PROVIDED

BY _____ DATED JUNE XX, 2013.

MULHOLLAND DEVELOPMENT SOLUTIONS IS NOT RESPONSIBLE FOR THE DESIGN OF THE ROCK PROTECTED SLOPE.

PRIOR TO CONSTRUCTING ROCK PROTECTED SLOPE, CONTRACTOR SHALL COMPLY WITH THE DESIGN RECOMMENDATION OF THE REPORT.

ROCK PROTECTED SLOPE DETAIL