



August 18, 2014

Dana Shuler  
Weber County Engineering

**Project: Mallard Springs**  
**Re: Weber County Engineering Division**

Below please find our response to your Miradi posted comments dated April 11, 2014. Please note that our numbering reference system corresponds to your comment numbering system.

Improvement Plan Responses:

1. Approval Letters will be provided once they have been obtained.
2. Efforts have been made to identify the actual location of the land drain in questions. The land drain has been shown on Sheet 1 with a note that the location is to be verified in field.
3. Proposed contours have been provided.
4. All 8" sewer is a minimum .33%.
5. Detailed calculations of the retention basins have been provided on plans. See sheets 4, 7, and 8. Retention basin information has been provided, including finished grades. The calculations have been reviewed and updated as of June 2, 2014.
6. Sheet 1 has been modified to include a call out for a 6' vinyl fence along the irrigation ditch.
7. The road section on Sheet 2 has been modified.
8. Sidewalk has been modified to terminate at the curb. Ex. Driveways have been shown.
9. Grading of the retention pond has been included. The calculations have been reviewed and updated as of June 2, 2014.
10. The plans have been modified to show the road tie into the existing ground at property line. The flow calculations have been updated and provided. The Q was determined using the following:  $C=0.37$   $I=1.6$  inches per hour and  $A=9.93$  acres.  
 $(0.37)(1.6)(9.93)=5.88$  CFS
11. The sewer easement is shown on Sheet 10. Approval letter to be provided by developer.
12. Notes have been provided on the profile to indicate a minimum separation of 18".
13. Potholing was performed, and all information obtained from the potholes has been incorporated into the plan set.
14. The profile on Sheet 14 has been modified to indicate the required 18" separation between the water and sewer.
15. Sheet 15
  - a. The SW is shown in its current/existing location.
  - b. The sewer line has been upsized to a 12" pipe
  - c. The surrounding grades have been reviewed, and the drop will only require a 2" drop. The water will still have a path to follow and get to its historical location.

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- d. Potholing was performed, and all information obtained from the potholes has been incorporated into the plan set.
- e. Note on plans indicates the minimum separation between the water and sewer needs to be 18”.

We appreciate your review and trust we have changed and/or clarified all of your comments. If you have any questions, or we can be of further assistance, please let us know.

Sincerely,  
REEVE & ASSOCIATES, INC.

A handwritten signature in black ink, appearing to read 'Nate Reeve', is positioned above a horizontal line.

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Nate Reeve, P.E.  
Principal Engineer  
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