



September 1, 2016

Braden Felix  
Weber County Engineering Division  
2380 Washington Blvd. #240  
Ogden, UT 84401

Sent via e-mail to [bfelix@co.weber.ut.us](mailto:bfelix@co.weber.ut.us)

RE: Horizon Neighborhood Civil Improvement Plans  
Response to Engineering Comments Received on August 30, 2016

Mr. Felix,

The following are comments and responses pertaining to the civil engineering plans from your review and received on August 30, 2016.

Sheet 2.00

1. There's a note 12 and 13 on the same bend. Is this right or does a decision need to be made?  
[Water system has been updated. See updated plans](#)
2. Eliminate the conflict with the power box and the curb on the east entrance.  
[Added callout to relocate existing Communications box.](#)
3. Where does the fire hydrant get its supply?  
[Fire hydrant \(stand pipe\) in the driveway is to be supplied water through a fire truck parked in the driveway. The water flows through the fire line in the development to the standpipe in the development. Fire response teams will connect hose to the standpipe to fight fires in that portion of the development. This strategy has been coordinated and approved through the Weber County Fire Marshal. See attached fire protection variance letter.](#)
4. Add note 16 for building 8  
[Added callout to building 8](#)

Sheet 2.01

1. Add note 27 to all sewer connections just like sheet 2.00.  
[Added callout 46 for 1.5" sewer wye connection.](#)

2. Add water bend notes with respective angles of bend to water lateral from main line under drive entrance.

Call outs have been added

3. Where does the fire hydrant get its supply?

Fire hydrant (stand pipe) in the driveway is to be supplied water through a fire truck parked in the driveway. The water flows through the fire line in the development to the standpipe in the development. Fire response teams will connect hose to the standpipe to fight fires in that portion of the development. This strategy has been coordinated and approved through the Weber County Fire Marshal. See attached fire protection variance letter.

#### Sheet 3.00

1. Show radii and length of curb arcs and dimensions of the paved drives.

Dimensions have been added

2. Add culverts to carry water under both entrances.

Culverts have been added to both entrances

#### Sheet 3.01

1. Show radii and length of curb arcs and dimensions of paved drives.

Dimensions have been added

2. Add storm drain box at top right corner of parking lot, across from P4 and west of building 22. I suggest a 15" pipe going directly south to a flared-end section with riprap to reduce head.

Due to the proposed use of ribbon curb in this development there will be no stormwater water collected along the curb line. Stormwater is intended to sheet flow from the driveway to the south. Based on this design a catch basin is unnecessary and would provide no benefit.

3. Add a culvert under the entrance to keep runoff above from entering the development at the west entrance.

Culverts have been added to the North side of Horizon Run

4. the wall creates a difference in elevation of about 12 feet. If a wall is any taller than 4 feet, we need structural calcs. Many designers therefore step the wall with 4' increments with 4' in between. It therefore would go down four feet, go sloped away at 5% for 4 feet, repeated three times.

Walls have been tiered to 8' max per the attached Geotechnical reports and structural analysis from IGES.



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Sheet 4.00

1. Provide a legend or key note list detailing the hatch and line work for your BMPs. Show details of these BMPs either on this sheet or the details sheet with clear instruction on the proper implementation of them.

A legend has been added to the Erosion Control sheet and Details for BMPs added to sheet 6.00

Sheet 6.00

1. If the propane tanks are going to be buried, show a finish grade line and label the fill material.  
Updated detail to show sand backfill and finished grade line.

This does not include everything needed and doesn't address the storm water concerns.

Please see attached for the letter from IGES pertaining to the use of the "Rockery Constructions for Wet Conditions" guidelines previously prepared by IGES.

Regards,



Ryan Cathey, PE  
Engineering Manager

CC: Jared Andersen, PE- Weber County Engineer  
Rick Everson, PE- Watts Enterprises, Inc.-Land Owner's Representative

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## Engineering Review 1

**Project:** [Horizon Neighborhood at Powder Mountain PRUD](#)  
**User:** [Braden Felix](#)  
**Department:** [Weber County Engineering Division](#)  
**Created:** 2016-09-01 13:42:47  
**Modified:** 2016-09-01 13:42:47

### Notes

I had some comments on the Horizon Neighborhood Sheets.

#### Sheet 2.00

1. There's a note 12 and 13 on the same bend. Is this right or does a decision need to be made?
2. Eliminate the conflict with the power box and the curb on the east entrance.
3. Where does the fire hydrant get its supply?
4. Add note 16 for building 8

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#### Sheet 4.00

1. Provide a legend or key note list detailing the hatch and line work for your BMPs. Show details of these BMPs either on this sheet or the details sheet with clear instruction on the proper implementation of them.

#### Sheet 6.00

1. If the propane tanks are going to be buried, show a finish grade line and label the fill material.

This does not include everything needed and doesn't address the storm water concerns.

Before we can submit our approval, we need a letter from the Powder Mountain Water and Sewer Improvement District stating they accept the design and construction of the plans as well.

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