June 22, 2021

Tucker Weight
Weber County Planning and Engineering
Ogden, UT

RE: Charly's Acres Review Comment Response

The following are comment responses from the civil engineer for the proposed Charly's Acres Subdivision located at approximately at 500 south 8400 east in Huntsville, UT.

Frontier Email Review
Date: June 9, 2021

1. Show the location, widths and other dimensions of all existing roads/ROW. Ex. road width & ROW widths shown on sheet C1.0.
2. Please add PUE's along the lot frontages. PUEs added on new road frontage and 500 south frontage.
3. Will the road for the subdivision be public or private? Public, any reference to private has been removed.
4. Please show well easements. 100' well protection zone shown on C1.0.
5. The proposed subdivision will need to have curb, gutter and sidewalk as per the county commission. As a bare minimum there will need to be a deferral on the curb, gutter and sidewalk, which has been signed by the developer prior to final approval. C&G will be deferred. Asphalt and shoulder shown.
6. A note will need to be added to the plat stating: "Due to the topography and the location of this subdivision all owners will accept responsibility for any storm water runoff from the road adjacent to this property until curb and gutter is installed." Note to be added to subdivision plat.
7. There will need to be an easement given for the existing ditches in the subdivision. The depicted ditch is no longer a functioning channel and is part of the existing topography only. No easement is shown.
8. The storm water calculations will need to be for a 100 year storm event with a 0.1 cfs/acre release rate. Basins sized to retain the 100-year storm with no outlet. See attached calcs.
9. A geotechnical report needs be completed for the subdivision.
10. Because soil conditions vary throughout the county, it is now necessary to provide an engineered pavement design showing required sub-base, road-base, fabric, and asphalt thickness as needed for soil type. Asphalt thickness shall not be less than 3 inches. The county engineer is now requiring a minimum of 8" of 4" minus sub-base and 6" road-base. Compaction tests on both will be required. The minimum section is shown on the roadway cross-section on sheet C4.0. Any upsizing of this section will me modified upon completion of the Geotech report.
11. 500 S is projected to be need an 66' ROW. Please dedicate the applicable ROW. The dedicated 33' is shown on sheet C1.0. Subdivision plat will reflect the formal dedication for the project.

Please do not hesitate to contact us for clarification on any of these items.

Sincerely,

Tandin Chapman

LOT 1

100-Year, 24-hr Retention Volume

Rational C=	0.250
Area (sq. ft.)=	261792
Area (ac.)=	6.01
Infiltration (um/s)=	7.50
Inf. Area (sq. ft.)	8000.00
Infiltration (cfs)	0.20

Storm (min)	Precipitation (in)	Intensity (in/hr)	Peak Flow (cfs)	Infiltration (cfs)	Volume (cu. ft.)
5	0.601	7.21	10.84	0.20	3192
10	0.914	5.48	8.24	0.20	4826
15	1.13	4.52	6.79	0.20	5935
30	1.53	3.06	4.60	0.20	7921
60	1.89	1.89	2.84	0.20	9514
120	2.17	1.09	1.63	0.20	10320
180	2.25	0.75	1.13	0.20	10044
360	2.52	0.42	0.63	0.20	9379
720	3.16	0.26	0.40	0.20	8588
1440	3.62	0.15	0.23	0.20	2572

Volume Req'd (cu. ft.)= **10320**

LOT 2

100-Year, 24-hr Retention Volume

Rational C=	0.250
Area (sq. ft.)=	130857
Area (ac.)=	3.00
Infiltration (um/s)=	7.50
Inf. Area (sq. ft.)	4400.00
Infiltration (cfs)	0.11

Storm (min)	Precipitation (in)	Intensity (in/hr)	Peak Flow (cfs)	Infiltration (cfs)	Volume (cu. ft.)
5	0.601	7.21	5.42	0.11	1592
10	0.914	5.48	4.12	0.11	2406
15	1.13	4.52	3.39	0.11	2958
30	1.53	3.06	2.30	0.11	3942
60	1.89	1.89	1.42	0.11	4720
120	2.17	1.09	0.81	0.11	5087
180	2.25	0.75	0.56	0.11	4914
360	2.52	0.42	0.32	0.11	4475
720	3.16	0.26	0.20	0.11	3866
1440	3.62	0.15	0.11	0.11	433

Volume Req'd (cu. ft.)= **5087**

LOT 3

100-Year, 24-hr Retention Volume

Rational C=	0.250
Area (sq. ft.)=	130674
Area (ac.)=	3.00
Infiltration (um/s)=	7.50
Inf. Area (sq. ft.)	6000.00
Infiltration (cfs)	0.15

Storm (min)	Precipitation (in)	Intensity (in/hr)	Peak Flow (cfs)	Infiltration (cfs)	Volume (cu. ft.)
5	0.601	7.21	5.41	0.15	1578
10	0.914	5.48	4.11	0.15	2379
15	1.13	4.52	3.39	0.15	2918
30	1.53	3.06	2.29	0.15	3865
60	1.89	1.89	1.42	0.15	4571
120	2.17	1.09	0.81	0.15	4796
180	2.25	0.75	0.56	0.15	4480
360	2.52	0.42	0.31	0.15	3615
720	3.16	0.26	0.20	0.15	2154
1440	3.62	0.15	0.11	0.15	-2982

Volume Req'd (cu. ft.)= **4796**

LOT 4

100-Year, 24-hr Retention Volume

Rational C=	0.250
Area (sq. ft.)=	1127563
Area (ac.)=	25.89
Infiltration (um/s)=	7.50
Inf. Area (sq. ft.)	25000.00
Infiltration (cfs)	0.62

Storm (min)	Precipitation (in)	Intensity (in/hr)	Peak Flow (cfs)	Infiltration (cfs)	Volume (cu. ft.)
5	0.601	7.21	46.67	0.62	13817
10	0.914	5.48	35.49	0.62	20924
15	1.13	4.52	29.25	0.62	25772
30	1.53	3.06	19.80	0.62	34537
60	1.89	1.89	12.23	0.62	41816
120	2.17	1.09	7.02	0.62	46125
180	2.25	0.75	4.85	0.62	45774
360	2.52	0.42	2.72	0.62	45420
720	3.16	0.26	1.70	0.62	47043
1440	3.62	0.15	0.98	0.62	31185

Volume Req'd (cu. ft.)= **47043**