

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 item	Ы
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Sincerely,

Tandin Chapman

			100-Year, 2	4-hr Retent	ion Volume		
			Rational C= Area (sq. ft.)= Area (ac.)=	0.250 261792 6.01			
		Infi I	7.50 8000.00 0.20				
LOT 1	Storm (min)	Precipitation (in)	Intensity (in/hr)	Peak Flow (cfs)	Infiltration (cfs)	Volume (cu. ft.)	
Ö	5	0.601	7.21	10.84	0.20	3192	
_	10 15	0.914 1.13	5.48 4.52	8.24 6.79	0.20	4826 5935	
	30	1.53	3.06	4.60	0.20	7921	
	60 120	1.89 2.17	1.89 1.09	2.84 1.63	0.20	9514 10320	
	180	2.25	0.75	1.13	0.20	10044	
	360 720	2.52	0.42	0.63	0.20	9379 8588	
	1440	3.16 3.62	0.26 0.15	0.23	0.20 0.20	2572	
		Volume Req'd (cu. ft.)= 10320					
100-Year, 24-hr Retention Volume							
			Rational C= Area (sq. ft.)=	0.250 130857			
		Infi	Area (ac.)= 	3.00 7.50			
		1	nf. Area (sq. ft.) Infiltration (cfs)	4400.00 0.11			
7	Storm (min)	Precipitation	Intensity	Peak Flow	Infiltration (cfs)	Volume	
LOT 2	(min) 5	(in) 0.601	(in/hr) 7.21	(cfs) 5.42	(cfs) 0.11	(cu. ft.) 1592	
o I	10	0.914	5.48	4.12	0.11	2406	
_	15 30	1.13	4.52 3.06	3.39 2.30	0.11	2958 3942	
	60	1.89	1.89	1.42	0.11	4720	
	120 180	2.17 2.25	1.09 0.75	0.81	0.11 0.11	5087 4914	
	360	2.52	0.75	0.32	0.11	4475	
				0.20	0.11	3866	
	720	3.16	0.26				
		3.62	0.15	0.11	0.11	433	
	720	3.62	0.15 : Req'd (cu. ft.)=	0.11 5087	0.11		
	720	3.62	0.15 Req'd (cu. ft.)=	0.11 5087 4-hr Retent			
	720	3.62	0.15 : Req'd (cu. ft.)=	0.11 5087	0.11		
	720	3.62 Volume	0.15 Req'd (cu. ft.)= 100-Year, 2 Rational C= Area (sq. ft.)= Area (ac.)=	0.11 5087 24-hr Retent 0.250 130674 3.00	0.11		
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LOT 4 LOT 3	Storm (min) 5 10 15 30 60 120 1440 15 30 60 120 15 5 10 15 30 60 120 15 30 60 120 15 30 60 120 180	Note	0.15 Req'd (cu. ft.)= 100-Year, 2 Rational C- Area (sq. ft.)= Area (sq. ft.)= Infilitration (um/s)= Inf. Area (sq. ft.) Infilitration (cfs) Intensity (in/hr) 7.21 5.48 4.52 3.06 1.89 1.09 0.75 0.42 0.26 0.15 Req'd (cu. ft.)= Area (sq. ft.) Infilitration (um/s)= Inf. Area (sq. ft.) Infilitration (cfs) Intensity Infilitration (cfs) Intensity (in/hr) 7.21 5.48 4.52 3.06 1.89 1.89 1.09 0.75	0.11 5087 4-hr Retent 0.250 130674 3.00 0.15 Peak Flow (cfs) (cfs) 1.44 4.11 3.39 2.29 1.42 0.81 0.56 0.31 0.20 0.11 4796 4-hr Retent 4.750 1127563 25.89 7.50 0.62 Peak Flow (cfs) 4.667 35.49 29.25 19.80 112.23 7.02 4.85	Infiltration (cfs)	Volume (cu. ft.) 1578 2379 2918 3865 4571 4796 4480 3615 2154 -2982	
LOT 4 LOT 3	Storm (min) 5 10 1440 1440 1440 1440 15 16 16 16 16 16 16 16	Note	0.15 Req'd (cu. ft.)= 100-Year, 2 Rational C= Area (sq. ft.)= Area (sq. ft.)= Intation (um/s)= nf. Area (sq. ft.) Infiltration (cfs) Intensity (in/hr) 7.21 5.48 4.52 3.06 1.89 1.09 0.75 0.42 0.26 0.15 Req'd (cu. ft.)= Area (sq. ft.)= Area (sq. ft.)= Area (sq. ft.)= Area (sq. ft.)= Infiltration (cfs) Intensity (in/hr) 7.21 5.48 4.52 3.06 1.89 1.09 0.75 0.42 0.26 0.15	0.11 5087 4-hr Retent 0.250 130674 3.00 7.50 6000.00 0.15 5-41 4.11 3.39 2.29 1.42 0.81 0.56 0.31 0.20 0.11 4796 4-hr Retent 0.250 1127563 25.89 7.50 25000.00 0.62 4-hr Retent 0.250 1127563 25.89 7.50 25000.00 0.62 27.20 48.67 35.49 29.25 19.80 12.23 7.02 4.85 2.72	Infiltration (cfs) 0.15	Volume (cu. ft.) 1578 2379 2918 3865 4571 4796 4480 3615 2154 -2982 Volume (cu. ft.) 13817 20924 25772 34537 41816 46125 45774 44520	
LOI 4	Storm (min) 5 10 15 30 60 120 15 30 60 120 15 30 60 120 15 30 60 120 15 30 60 120 180 36	Note	0.15 Req'd (cu. ft.)= Rational C= Area (sq. ft.)= Area (sq. ft.)= Infiltration (um/s)= nf. Area (sq. ft.) Infiltration (cfs) Intensity (in/hr) 7.21 5.48 4.52 3.06 1.89 1.09 0.75 0.42 0.26 0.15 Req'd (cu. ft.)= Infiltration (um/s)= nf. Area (sq. ft.)= Area (sq. ft.)= Area (sq. ft.)= Infiltration (um/s)= nf. Area (sq. ft.) Infiltration (tfs) Intensity (in/hr) 7.21 5.48 4.52 3.06 1.89 1.09 0.75 0.42	0.11 5087 4-hr Retent 0.250 130674 3.00 7.50 6000.00 0.15 5.41 4.11 3.39 2.29 1.42 0.81 0.56 0.31 0.20 0.11 4796 24-hr Retent 0.250 1127563 2500.00 0.62 Peak Flow (cfs) 46.67 35.49 29.25 19.80 12.23 7.02 4.85	Infiltration (cfs) 0.15	Volume (cu. ft.) 1578 2379 2918 3865 4571 4796 4480 3615 2154 -2982 Volume (cu. ft.) 13817 20924 25772 34537 44816 46125 45774	