

Drawing Name: W:_Projects\223 - ULF, LLC\001 - Heather (en Apartments)\C3\323.001_DRAIN.dwg User: jhnm Jul 29, 2020 - 10:58am

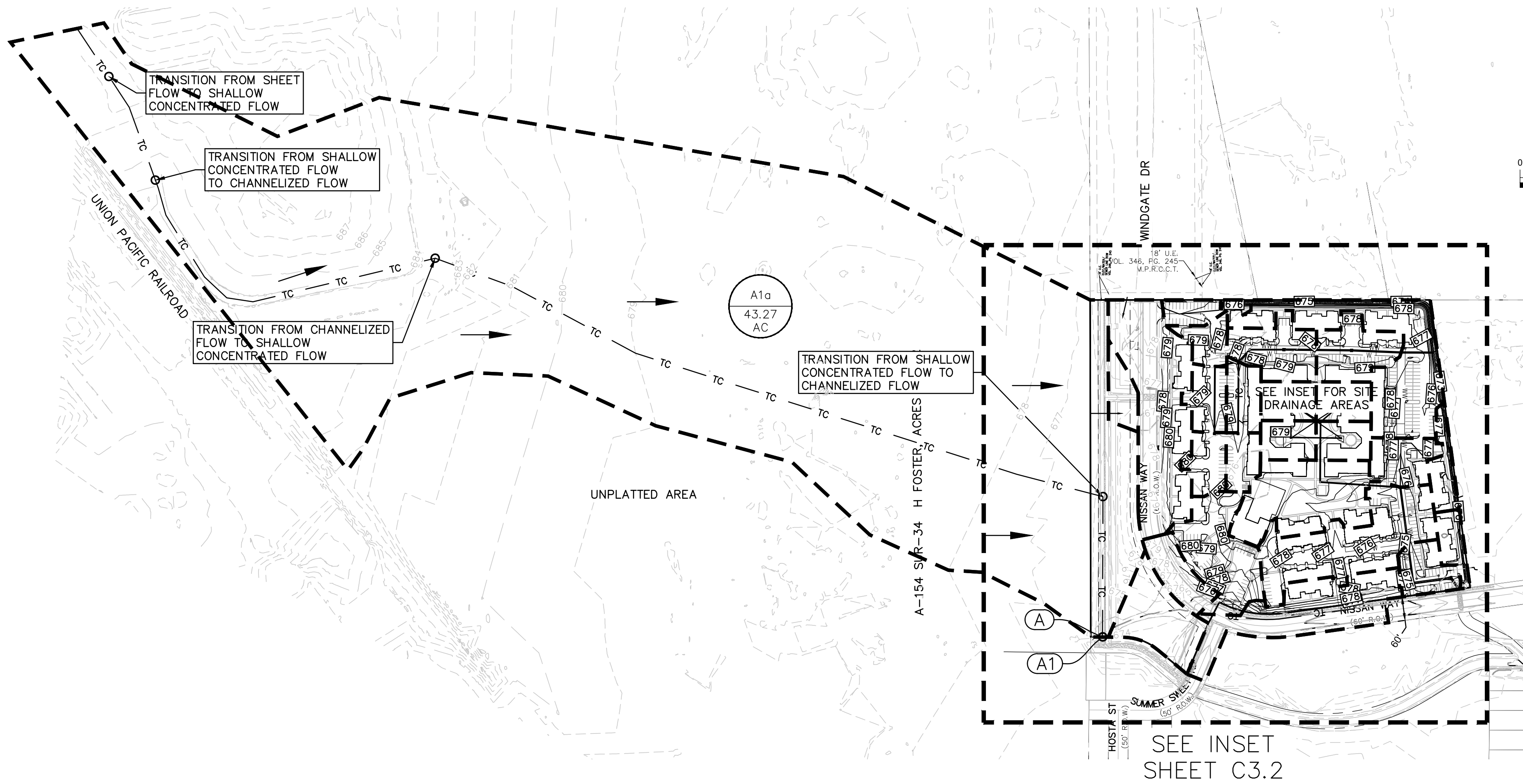
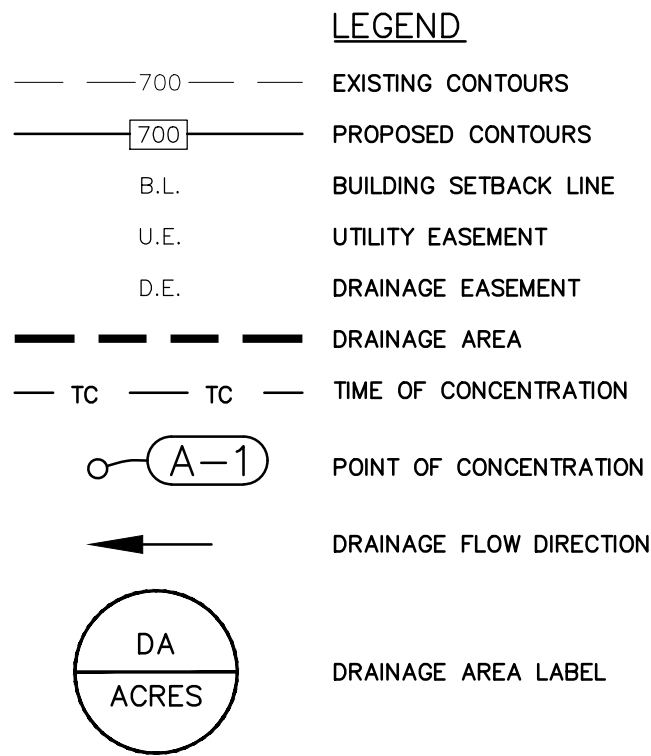


Table 2 - Proposed Conditions Hydrology Calculations - City of New Braunfels								
Point of Concentration	Drainage Area	Area	T _c	Q _N	Q ₂ (cfs)	Q ₁₀ (cfs)	Q ₂₅ (cfs)	Q ₁₀₀ (cfs)
A1a	A1a	43.27	74.13	80.34	34.66	88.02	120.18	160.94
A1b	A1b	1.93	36.79	93.15	5.06	9.48	12.01	15.20
A1c	A1b+A1c	2.20	36.79	91.53	4.49	9.01	11.60	14.83
A1	A1a+A1b+A1c	45.47	74.13	80.89	37.27	93.31	126.97	169.55
A2b	A2b	0.41	14.34	96.78	1.43	2.71	3.45	4.36
A2a	A2a+A2b	2.72	14.34	95.24	9.59	18.13	23.03	29.17
A2	A2a+A2b+A2c	3.52	52.43	91.85	5.65	11.30	14.54	18.58
B1a	B1a	0.27	17.88	93.00	0.82	1.60	2.05	2.61
B1b	B1b	0.21	10.00	93.00	0.77	1.50	1.92	2.44
B2a	B2a	0.33	10.00	93.00	1.21	2.36	3.02	3.84
B2b	B2b	0.36	10.00	93.00	1.31	2.55	3.25	4.14
B2c	B2c	0.28	11.31	93.00	0.98	1.90	2.42	3.08
B2d	B2d	0.35	10.00	93.00	1.28	2.50	3.20	4.06
B2e	B2e	0.32	17.85	93.00	2.00	3.90	4.99	6.35
B2f	B2f	0.63	20.77	93.00	1.82	3.54	4.54	5.77
B3a	B3a	0.32	30.15	93.00	0.76	1.48	1.90	2.41
B3b	B3b	0.32	25.58	93.00	0.83	1.62	2.07	2.64
B3c	B3c	0.32	30.15	93.00	0.76	1.48	1.90	2.41
B3d	B3d	0.32	25.58	93.00	0.81	1.58	2.03	2.59
B3e	B3e	1.33	47.04	93.00	2.36	4.63	5.93	7.56
B3f	B3f	0.44	14.10	93.00	1.47	2.87	3.67	4.66
B3g	B3g	1.55	12.01	93.00	5.41	10.52	13.45	17.10
B3h	B3h	0.38	10.00	93.00	1.38	2.68	3.43	4.36
B4a	B4a	1.72	10.73	93.00	6.18	12.02	15.37	19.55
B4b	B4b	0.28	63.42	93.00	0.41	0.80	1.03	1.31
B4c	B4c	0.23	52.52	93.00	0.38	0.75	0.96	1.22
B	B	9.96	63.42	93.00	16.15	31.54	40.34	51.35

Table 4 - Existing to Proposed Comparison					
Point of Concentration	Drainage Area	Q ₂ (cfs)	Q ₁₀ (cfs)	Q ₂₅ (cfs)	Q ₁₀₀ (cfs)
Ex B	Ex B	7.06	17.53	23.80	31.72
B	B	16.15	31.54	40.34	51.35
Proposed is Less Than or Equal to Existing		NO	NO	NO	NO



290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



07/29/2020

**PROPOSED DRAINAGE
AREA MAP**
VANGUARD FARMS APARTMENTS

NO.	REVISION	DESCRIPTION	DATE

DATE: **JULY 2020**
DRAWN BY: **LB**
DESIGNED BY: **JMM**
REVIEWED BY: **CWH**
HMT PROJECT NO.: **323.001**

SHEET
C3.1