

**Vicinity Map**  
SCALE: NONE

**Line Table**

LINE	BEARING	DISTANCE
L1	N77°45'19"E	30.00'
L2	N12°14'43"W	15.00'
L3	N32°09'34"W	20.00'
L4	S19°28'25"E	25.00'
L5	N78°43'20"E	20.00'
L6	N62°27'14"E	46.57'
L7	S40°09'44"E	30.25'

**Curve Table**

#	RADIUS	ARC LENGTH	CHD LENGTH	TANGENT	CHD BEARING	DELTA
C1	180.00'	70.79'	70.34'	35.86'	N46°34'24"E	22°32'04"
C2	180.00'	39.85'	39.77'	20.01'	S64°11'00"W	12°41'08"
C3	55.00'	35.80'	35.17'	18.56'	N89°10'29"E	37°17'50"
C4	55.00'	58.46'	55.73'	34.73'	S47°33'58"E	60°33'58"
C5	55.00'	58.67'	55.92'	32.47'	S17°18'48"W	61°08'58"
C6	55.00'	82.83'	75.22'	51.55'	S87°01'03"E	86°17'22"
C7	30.00'	35.85'	33.75'	20.41'	S78°06'22"E	68°28'00"
C8	120.00'	20.79'	20.77'	10.42'	S62°41'48"W	9°55'44"
C9	120.00'	46.97'	46.67'	23.79'	N46°31'08"E	22°25'32"
C10	150.00'	92.21'	90.76'	47.61'	N52°54'59"E	35°13'12"
C11	50.00'	102.75'	85.60'	82.79'	N87°37'57"E	117°44'33"

**Storm Runoff Calculations**

Jeremy Jaggi Project  
11/28/2018

The following runoff calculations are based on the Rainfall - Intensity - Duration Frequency Curve for the Harrisville, UT area taken from the NOAA Atlas 14 database, using a 100 year storm for detention. Storm water runoff has been calculated for a fully developed site.

The calculations are as follows:

**Drainage Area:**  
Total Area = 2.82 acre or 122,711 ft<sup>2</sup>

**Runoff Coefficients:**  
Paved Area: 30,757 ft<sup>2</sup> C = 0.9  
Landscaped Area: 64,964 ft<sup>2</sup> C = 0.2  
Roof: 27,000 ft<sup>2</sup> C = 0.9  
Weighted Runoff Coefficient: C = 0.53

**Time of Concentration:**  
Using Storm Water Run-Off "Overland Flow Time" to Project Site = 30 minutes

**Volume of Run-off for 100 year Storm Event:**  
C = 0.53  
I = See Below in/hr  
A = 122,711 ft<sup>2</sup>  
Q(out) = 0.28 ft<sup>3</sup>/s (Storm sewer max. flow rate of 0.1 cfs)

time (min)	Q (cfs)	I (in/hr)	Vol. in (cf)	Vol. out (cf)	Difference	
0	0.00	0.00	0.00	0.00	0.00	
5	300	7.39	11.02	3309.76	84.51	3222.25
10	600	5.83	8.40	5038.45	169.02	4869.42
15	900	4.65	6.34	6242.12	253.54	5988.59
20	1800	3.13	4.67	8403.37	507.07	7896.30
30	3600	1.94	2.89	10416.96	1014.14	9402.82
40	7200	1.13	1.69	12135.23	2028.28	10106.94
60	10800	0.78	1.16	12484.28	3042.42	9441.85
80	21600	0.44	0.65	14014.57	6084.84	7929.73
120	43200	0.27	0.41	17560.71	12169.69	5401.02
1440	86400	0.16	0.24	20061.40	24339.37	-3077.97

**Total Required Detention Volume: 10,107 ft<sup>3</sup>**

**Orifice Sizing:**  
Given: Q = 0.28 cfs  
Zg = 84.4 ft  
H = 3.75 ft  
Cd = 0.62  
R = SQRT(Q/(0.7\*(84.4+H\*0.5)))  
R = 0.10 feet  
D = 1.16 inches  
D = 2.32 inches  
SUMMARY: The required storage volume is 10,107 cubic feet  
Orifice size is 2.32 inches

**Boundary Description (Including Stratford)**

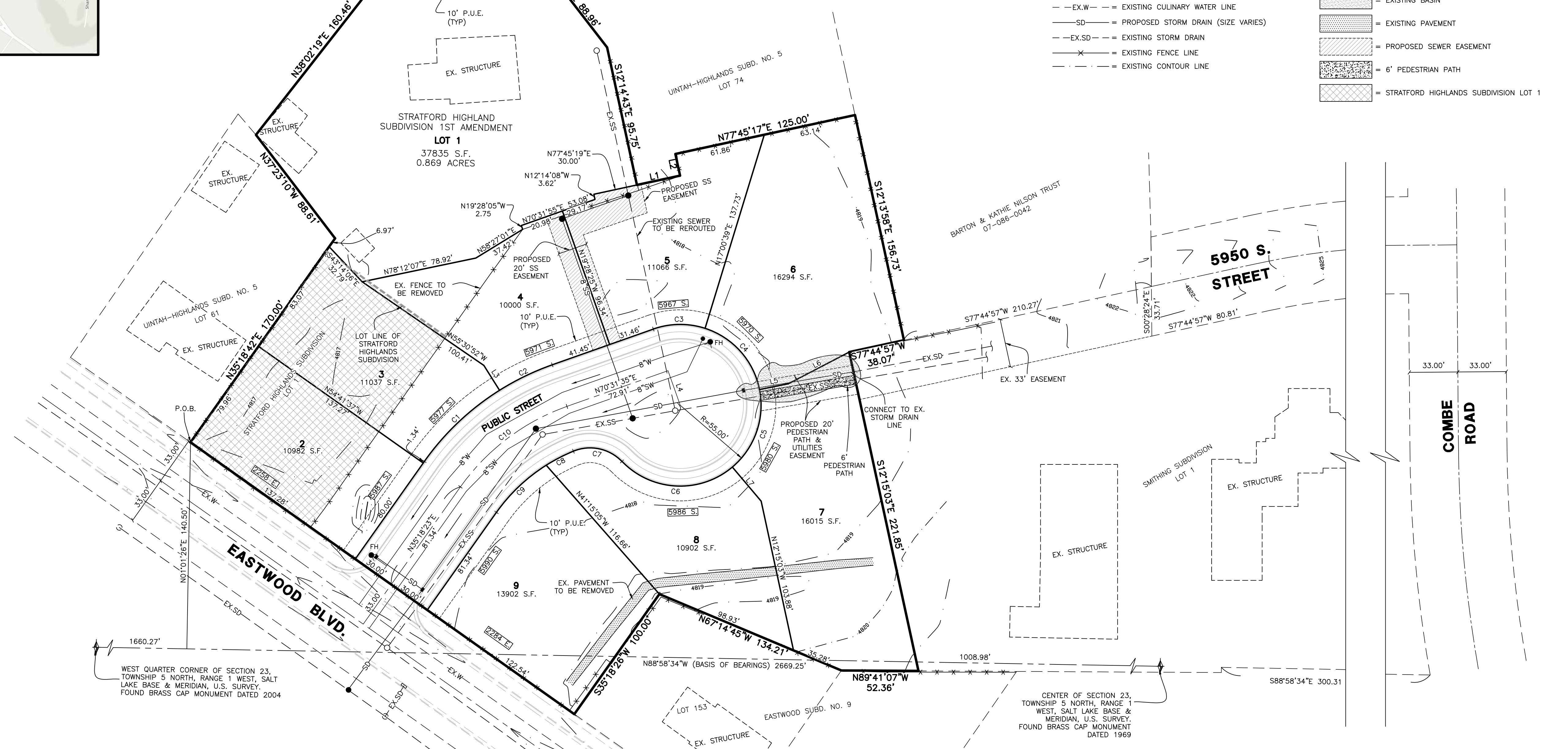
PART OF THE SOUTHWEST QUARTER OF SECTION 23, AND THE NORTH HALF OF SECTION 26, TOWNSHIP 5 NORTH, RANGE 1 EAST, SALT LAKE BASE AND MERIDIAN, U.S. SURVEY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT, SAID POINT BEING N88°14'12"E ALONG SAID LINE, 1376.96 FEET FROM THE SOUTHWEST CORNER OF SAID SECTION 23; THENCE N16°46'06"E 110.87 FEET; THENCE N88°14'12"E 318.59 FEET; THENCE N68°54'02"E 310.02 FEET; THENCE N16°48'06"E 819.88 FEET TO THE SOUTHERLY RIGHT OF WAY LINE OF OLD SNOW BASIN ROAD; THENCE ALONG SAID SOUTHERLY RIGHT OF WAY THE FOLLOWING THREE (3) COURSES: (1) ALONG A NON-TANGENT CURVE TURNING TO THE RIGHT WITH A RADIUS OF 292.24 FEET, AN ARC LENGTH OF 194.57 FEET, A DELTA ANGLE OF 38°08'52", A CHORD BEARING OF N72°53'55"E, A RADIAL BEARING OF S36°10'31"E, AND A CHORD LENGTH OF 191.00 FEET; (2) S88°05'03"E 102.72 FEET; AND (3) ALONG A NON-TANGENT CURVE TURNING TO THE LEFT WITH A RADIUS OF 361.16 FEET, AN ARC LENGTH OF 72.90 FEET, A DELTA ANGLE OF 11°33'56", A CHORD BEARING OF N86°17'33"E, A RADIAL BEARING OF N02°04'31"E, AND A CHORD LENGTH OF 72.78 FEET; THENCE S16°50'08"W 602.06 FEET; THENCE S89°16'08"E 167.84 FEET; THENCE S00°43'46"E 578.67 FEET; THENCE S28°31'54"E 1367.01 FEET; THENCE S89°04'00"W 1763.96 FEET; THENCE N00°14'50"W 1320.38 FEET TO THE SECTION LINE; THENCE S88°14'12"W ALONG SAID SECTION LINE, 118.42 FEET TO THE POINT OF BEGINNING.

CONTAINING 2,411,908 SQUARE FEET OR 55.370 ACRES MORE OR LESS

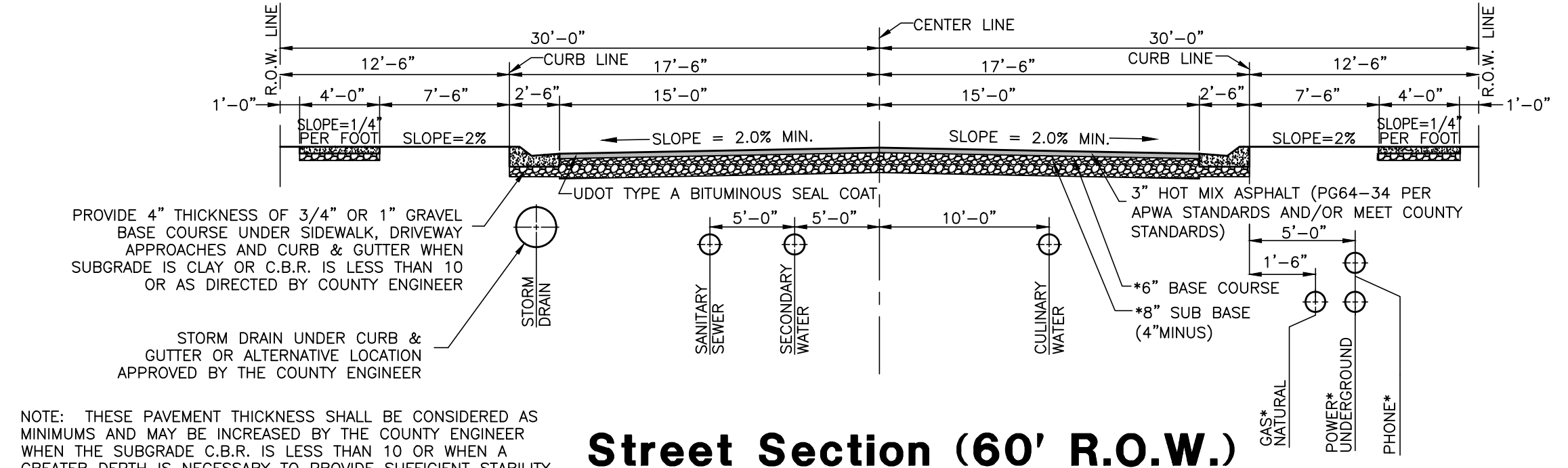
**Legend**

- SECTION CORNER
- BOUNDARY LINE
- LOT LINE
- ADJOINING PROPERTY
- EASEMENTS
- SECTION TIE LINE
- PROPOSED SANITARY SEWER LINE
- EXISTING SANITARY SEWER LINE
- PROPOSED IRRIGATION WATER LINE
- EXISTING IRRIGATION WATER LINE (SIZE VARIES)
- PROPOSED CULINARY WATER LINE (SIZE VARIES)
- EXISTING CULINARY WATER LINE
- PROPOSED STORM DRAIN (SIZE VARIES)
- EXISTING STORM DRAIN
- EXISTING FENCE LINE
- EXISTING CONTOUR LINE
- PROPOSED FIRE HYDRANT
- PROPOSED SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER/STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED SINGLE GRATE CATCH BASIN
- EXISTING CATCH BASIN
- AIR-VAC ASSEMBLY
- PUBLIC UTILITY EASEMENT
- FIRE HYDRANT
- EXISTING STRUCTURE
- EXISTING BASIN
- EXISTING PAVEMENT
- PROPOSED SEWER EASEMENT
- 6' PEDESTRIAN PATH
- STRATFORD HIGHLANDS SUBDIVISION LOT 1



**Notes**

- CONTOURS ARE SHOWN WITH A ONE FOOT INTERVAL.
- EXISTING DETENTION POND WILL BE PIPED AND CONNECT TO EXISTING STORM DRAIN LINE & PROPOSED STORM DRAIN SYSTEM.
- ROADWAY WILL BE DEDICATED ON THE FINAL PLAN
- STRATFORD HIGHLANDS SUBDIVISION WILL BE AMENDED AND SHOWN ON FINAL PLAN (SEE FINAL PLAN SUBMISSION)
- EXISTING FIRE HYDRANTS ARE LOCATED AT THE "T" INTERSECTION AT 2250 E & EASTWOOD BLVD. (APPROX. 145 FT.). THE END OF JENNIFER DRIVE CUL-DE-SAC AND APPROX. 530 FT. WEST OF PROPERTY (ON EASTWOOD BLVD).



**Street Section (60' R.O.W.)**

NOTE: THESE PAVEMENT THICKNESS SHALL BE CONSIDERED AS MINIMUMS AND MAY BE INCREASED BY THE COUNTY ENGINEER WHEN THE SUBGRADE C.B.R. IS LESS THAN 10 OR WHEN A GREATER DEPTH IS NECESSARY TO PROVIDE SUFFICIENT STABILITY. DEVELOPER MAY SUBMIT AN ALTERNATIVE PAVEMENT DESIGN BASED ON A SOILS ANALYSIS FOR APPROVAL BY THE COUNTY ENGINEER. COMPACTION TESTS ON BOTH SUB-BASE AND BASE COURSES WILL BE REQUIRED.

SCALE: NONE  
\*VERIFY LOCATION WITH PHONE, GAS AND POWER COMPANIES.

**Uintah View Estates**

Weber County, Utah

**Reeve & Associates, Inc.**  
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LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS  
TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

**REVISIONS**

DATE	DESCRIPTION
11-29-18	City Comments
1-9-19	City Comments

**Uintah View Estates**  
PART OF THE WEST HALF OF SECTION 23, T.5N., R. 1W., S.11B. & M., U.S. SURVEY  
WEBER COUNTY, UTAH

**Preliminary Design**

**Project Info.**  
Engineer: N. Reeve  
Designer: C. Cave  
Begin Date: 9-26-18  
Name: UINTAH VIEW ESTATES  
Number: 7075-01

**Developer:**  
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