



Vicinity Map
SCALE: NONE

Boundary Description

PART OF THE WEST HALF OF SECTION 23, TOWNSHIP 5 NORTH, RANGE 1 WEST, SALT LAKE BASE & MERIDIAN, U.S. SURVEY, DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT, SAID POINT BEING N88°58'33"W 1008.99 FEET AND N01°01'27"E 140.47 FEET FROM THE WEST 1/4 CORNER OF SAID SECTION 23 AND RUNNING THENCE N35°18'41"E 163.07 FEET; THENCE S43°14'06"E 32.79 FEET; THENCE N78°12'07"E 78.92 FEET; THENCE N58°27'01"E 37.42 FEET; THENCE N19°28'05"W 2.75 FEET; THENCE N70°31'55"E 53.08 FEET; THENCE N12°14'08"W 3.62 FEET; THENCE N77°45'19"E 60.00 FEET; THENCE N12°14'43"W 15.02 FEET; THENCE N77°45'17"E 125.00 FEET; THENCE S12°13'58"E 156.73 FEET; THENCE S77°44'57"W 38.07 FEET; THENCE S12°15'03"E 221.85 FEET; THENCE N89°41'07"W 52.36 FEET; THENCE N67°14'45"W 134.21 FEET; THENCE S35°18'26"W 100.00 FEET; THENCE N54°41'37"W 319.81 FEET TO THE POINT OF BEGINNING.

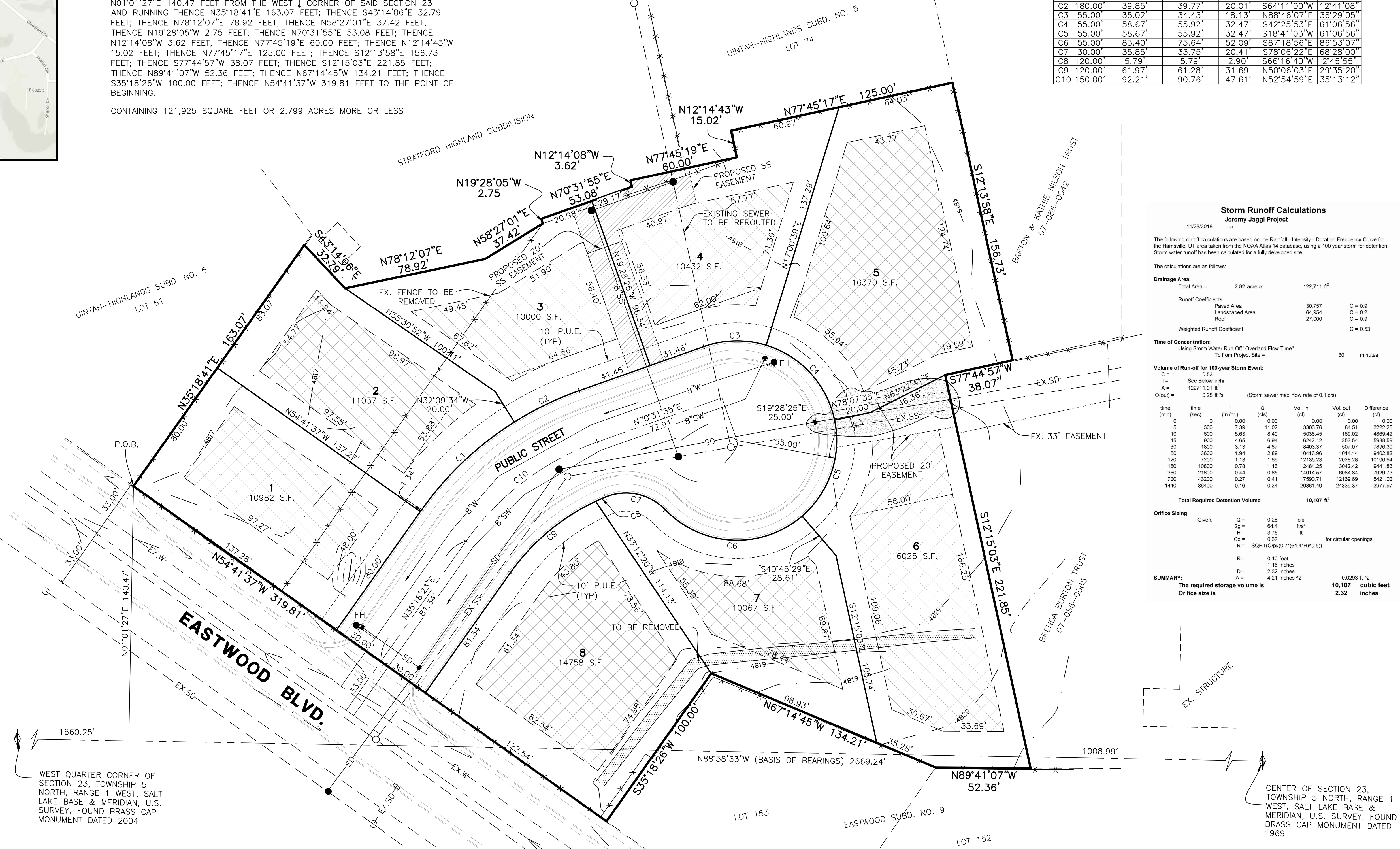
CONTAINING 121,925 SQUARE FEET OR 2.799 ACRES MORE OR LESS

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'	35.02'	34.43'	18.13'	N88°46'07"E	36°29'05"
C4	55.00'	58.67'	55.92'	32.47'	S42°25'53"E	61°06'56"
C5	55.00'	58.67'	55.92'	32.47'	S18°41'03"W	61°06'56"
C6	55.00'	83.40'	75.64'	52.09'	S87°18'56"E	86°53'07"
C7	30.00'	35.85'	33.75'	20.41'	S78°06'22"E	68°28'00"
C8	120.00'	5.79'	5.79'	2.90'	S66°16'40"W	2°45'55"
C9	120.00'	61.97'	61.28'	31.69'	N50°06'03"E	29°35'20"
C10	150.00'	92.21'	90.76'	47.61'	N52°54'59"E	35°13'12"

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
- = BUILDABLE AREA



Storm Runoff Calculations
Jeremy Jaggi Project

11/28/2018

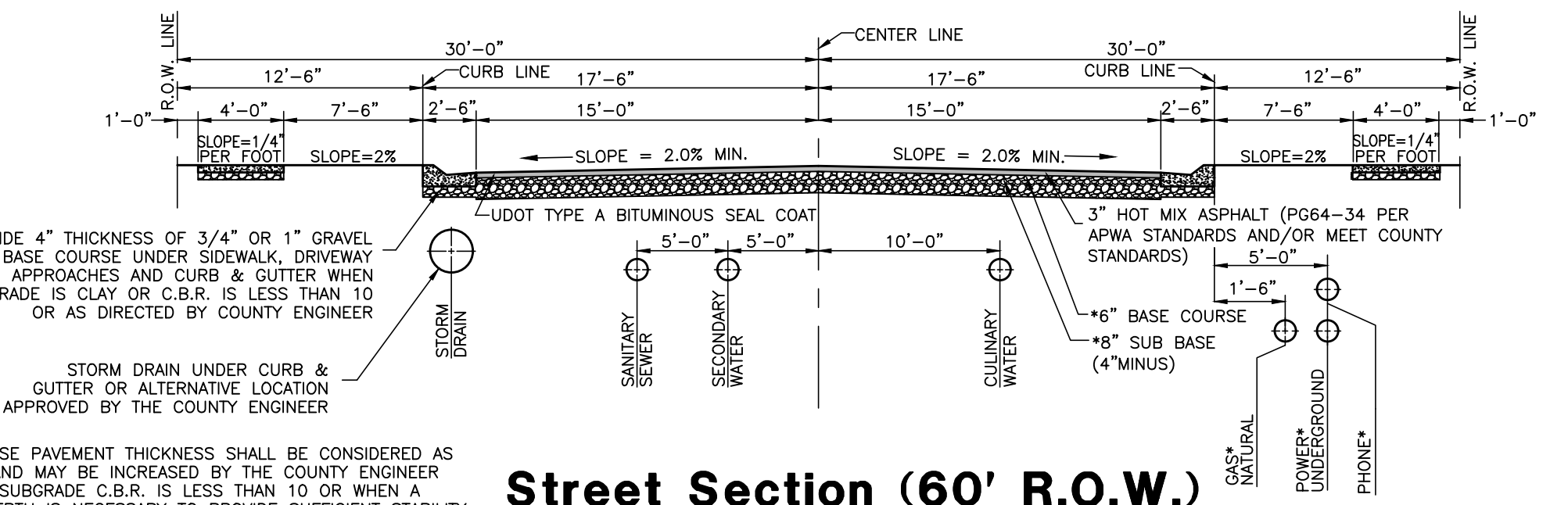
The following runoff calculations are based on the Rainfall - Intensity - Duration Frequency Curve for the Herriman, UT area taken from the NOAA Atlas 14 database, using a 100 year storm for duration. Storm water runoff has been calculated for a fully developed site.

The calculations are as follows:

Drainage Area:	Total Area = 2.82 acre or 122,711 ft ²
Runoff Coefficients:	Paved Area 30,757 C = 0.9 Landscape Area 64,954 C = 0.2 Roof 27,000 C = 0.9
Weighted Runoff Coefficient:	C = 0.53
Time of Concentration:	Using Storm Water Run-Off "Overland Flow Time" To from 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 ² Q (out) = 0.28 ft ³ /s (Storm sewer max. flow rate of 0.1 cfs)
Time (min)	0 5 10 15 30 60 90 120 180 360 720 1440
Time (sec)	0 300 600 900 1800 3600 7200 10800 21600 43200 86400
I (in/hr)	0.00 0.30 0.60 0.90 1.80 3.60 7.20 10.80 21.60 43.20 86.40 172.80
Q (cfs)	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Vol. in (cf)	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Vol. out (cf)	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Difference (cf)	3222.25 4869.42 5988.59 7866.30 9402.82 10108.94 10418.96 10418.96 10418.96 10418.96 10418.96 10418.96
Total Required Detention Volume:	10,107 ft ³
Orifice Sizing:	Given: Q = 0.28 cfs 2g = 64.4 ft/s ² H = 3.75 ft Cd = 0.62 R = SQRT(Q/(0.7*(64.4*H^0.5))) R = 0.10 feet D = 1.18 inches D = 3.32 inches A = 4.21 inches ² The required storage volume is 10,107 cubic feet Orifice size is 2.32 inches

WEST QUARTER CORNER OF SECTION 23, TOWNSHIP 5 NORTH, RANGE 1 WEST, SALT LAKE BASE & MERIDIAN, U.S. SURVEY. FOUND BRASS CAP MONUMENT DATED 2004

CENTER OF SECTION 23, TOWNSHIP 5 NORTH, RANGE 1 WEST, SALT LAKE BASE & MERIDIAN, U.S. SURVEY. FOUND BRASS CAP MONUMENT DATED 1969



Street Section (60' R.O.W.)
SCALE: NONE

*VERIFY LOCATION WITH PHONE, GAS AND POWER COMPANIES.

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.

NOTES:
1. CONTOURS ARE SHOWN WITH A ONE FOOT INTERVAL.

Uintah View Estates

Weber County, Utah

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TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

REVISIONS	DESCRIPTION	City Comments
DATE		
11-29-18		

Uintah View Estates
PART OF THE WEST HALF OF SECTION 23, T5N., R. 1W., S11B & M., U.S. SURVEY
WEBER COUNTY, UTAH

Preliminary Design

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

Sheet	1
1	Sheets