

Weber County Subdivision Application

All subdivisions submittals will be accepted by appointment only. (801) 399-8791. 2380 Washington Blvd. Suite 240, Ogden, UT 84401

Date Submitted / Completed	Fees (Office Use)	Receipt Number (Office Use)	File Number (Office Use)
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Subdivision and Property Information

Subdivision Name The Chalets at Ski Lake No. 7	Number of Lots 14
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Approximate Address Quail Lane and Snow Basin Road Huntsville, Utah	Land Serial Number(s) 20-035-0002
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Current Zoning Forest Valley Zone FV-3	Total Acreage 16.0
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Culinary Water Provider Lakeview Water Company	Secondary Water Provider Lakeview Water Company	Wastewater Treatment Mountain Sewer Corporation
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Property Owner Contact Information

Name of Property Owner(s) Valley Enterprise Investment Company, LLC	Mailing Address of Property Owner(s) 5393 East 6850 North Eden, UT 84310
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Phone 801-725-1517	Fax
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Email Address	Preferred Method of Written Correspondence <input type="checkbox"/> Email <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Mail
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Authorized Representative Contact Information

Name of Person Authorized to Represent the Property Owner(s) Melven Smith, Smith Knowles	Mailing Address of Authorized Person 4723 Harrison Blvd #200 Ogden, UT 84403
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Phone 801-476-0303	Fax
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Email Address msmith@smithknowles.com	Preferred Method of Written Correspondence <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Mail
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Surveyor/Engineer Contact Information

Name or Company of Surveyor/Engineer Great Basin Engineering	Mailing Address of Surveyor/Engineer 5746 South 1475 East Ste. 200 South Ogden, UT 84403
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Phone 801-394-4515	Fax 801-392-7544
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Email Address markb@greatbasinengineering.com	Preferred Method of Written Correspondence <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Mail
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Property Owner Affidavit

I (we), Ray Bowden, depose and say that I (we) am (are) the owner(s) of the property identified in this application and that the statements herein contained, the information provided in the attached plans and other exhibits are in all respects true and correct to the best of my (our) knowledge.

[Signature]
(Property Owner)

(Property Owner)

Subscribed and sworn to me this 3rd day of April, 2012.



[Signature]
(Notary)

Authorized Representative Affidavit

I (We), _____, the owner(s) of the real property described in the attached application, do authorized as my (our) representative(s), _____, to represent me (us) regarding the attached application and to appear on my (our) behalf before any administrative or legislative body in the County considering this application and to act in all respects as our agent in matters pertaining to the attached application.

(Property Owner)

(Property Owner)

Dated this _____ day of _____, 20 _____, personally appeared before me _____, the signer(s) of the Representative Authorization Affidavit who duly acknowledged to me that they executed the same.

(Notary)



Subdivision Application

This Subdivision application identifies submittal requirements and processes for subdividing land in the unincorporated lands of Weber County.

While the Planning Division staff distributes copies of your application to County agencies and other applicable utility agencies responsible for reviewing your application, the applicant is responsible for following up with them if they need additional information.

- A pre-application meeting with the applicant and the appropriate staff is required prior to application submittal; please call (801) 399-8791 to make an appointment.

Date of pre-application review meeting: _____ Time: _____

Staff member assigned to process application: _____

APPLICATION DEADLINE: Thirty (30) days prior to the applicable Planning Commission meeting

The Western Weber County Township Planning Commission holds their meetings on the 2nd Tuesday of the month.

The Ogden Valley Township Planning Commission holds their meetings on the 4th Tuesdays of the month.

Subdivisions will only be placed on a Planning Commission agenda upon receipt of reviewing agency recommendations including the County Engineer's Office and the Weber County Fire District.

This application is subject to all applicable Weber County Zoning and Subdivision Ordinances. It is important that the applicant read and understand the ordinances to prevent delays in the approval of their subdivision.

Process

The Planning Division will only accept complete applications with supporting documents as outlined below. Submitting an application does not guarantee that this application will be placed on the next Planning Commission agenda. The following steps/timeline/process tracks your application:

- Complete Application Form
- Staff determination that the application is complete
- Referral agencies are requested to review submittal
- Applicant coordinates as needed with reviewing agencies
- Staff report is drafted and a copy given to applicant
- Application placed on an upcoming agenda by staff
- Planning Commission meeting scheduled Date: _____



Fee Schedule

A subdivider proposing a subdivision in the unincorporated territory of Weber County shall deposit with the County non-refundable fee for planning, surveying and engineering subdivision review processing and improvement inspection at the time of submission of the preliminary plan to help defray the review costs incurred by the County. All of these fees shall be in accordance with the fee schedule listed below:

Planning/Surveying/Engineering - First Review

Lots	Planning Processing Fee	Surveying Review Fee	Engineering Review Fee
1-4	\$150 + \$25 per lot/unit	\$150 + \$25 per lot/unit	\$150 + \$25 per lot/unit[*]
5+	\$250 + \$20 per lot/unit	\$400 + \$20 per lot/unit	\$150 + \$50 per lot/unit

Notes:

* \$150 + \$50 per lot/unit where the lots/units have improvements

Planning/Surveying/Engineering - Subdivision Change Fees

Changes	Planning Processing Fee	Surveying Review Fee	Engineering Review Fee
Each	\$125	\$125	\$125

Time Extensions require the Subdivision Fees for Planning, Engineering, and Surveying to be repaid.

Subdivision Extension

A onetime, one-year extension of final approval can be granted by the Planning Commission for \$300. An eighteen-month extension of preliminary approval may be granted by the Planning Director after repayment of subdivision fees. Please see the Weber County Subdivision Ordinance for details.

First Determination

Is this a minor subdivision meeting the following definition as found in the Weber County Subdivision Ordinance 26-1-3.20:

“Minor Subdivision”:

- a. A subdivision consisting of three (3) or fewer lots and for which no streets will be created or realigned.
- b. An amended subdivision consisting of five (5) or fewer lots and for which no streets will be created or realigned.
- c. A subdivision phase consisting of five (5) or fewer lots which has a valid preliminary approval and meets all conditions of that preliminary approval, including proposed street layouts.

If YES, skip to Section 2 of this checklist (Page 3). If NO, complete Sections 1 & 2



The following is required for application form submittal:

Section 1

Preliminary Approval Checklist:

- Meet Preliminary Plan requirements of the Weber County Subdivision Ordinance 26-1-5
- Obtain signature of the owner(s) on the application and any authorized representatives
- Twelve (12) full size 24 x 36 copies, and one (1) reduced size 11 x 17 copy, and one (1) reduced size 8 1/2 x 11 copy of a preliminary plan meeting the requirements listed in this ordinance
- An electronic copy of the respective subdivision plans drawn to full-scale and saved in PDF, DWG, DWF and JPEG format
- A written statement of feasibility from the County or State Health Department, which states the recommendation of the Health Department regarding sanitary sewage disposal, and culinary water availability
- A non-refundable fee made payable to Weber County (see *Fee Schedule*)

Section 2

Final plat checklist

- Meet final plat requirements of the Weber County Subdivision Ordinance 26-1-8 and other requirements as determined necessary by the referral agencies as approved by preliminary approval
- Obtain signature of the owner(s) on the application and any authorized representatives
- Twelve (12) full size 24 x 36 copies, and one (1) reduced size 11 x 17 copy, and one (1) reduced size 8 1/2 x 11 copy of a preliminary plan meeting the requirements listed in this ordinance.
- An electronic copy of the respective subdivision plans drawn to full-scale and saved in PDF, DWG, DWF and JPEG format including improvement drawings.
- A written statement of feasibility from the County or State Health Department, which states the recommendation of the Health Department regarding sanitary sewage disposal, and culinary water availability
- A non-refundable fee made payable to Weber County (see *Fee Schedule*)



For Your Information

26-1-7 Subdivision Time Limitations.

(A) Time Limitation for Preliminary Approval. Subdivision applications that have not received preliminary approval within 18 months from the date of submittal shall be void. Subdivisions receiving preliminary plan approval shall have eighteen (18) months from the date of the approval to receive a recommendation for final approval of the subdivision or the first phase thereof, from the Planning Commission. An extension of preliminary approval for an additional time period of up to eighteen (18) months may be granted by the Planning Director upon repayment of the subdivision application fees and the plan being brought into compliance with County, State and Federal ordinances current at the time of the extension.

The extension request shall be submitted and approved prior to the expiration of the original approval period.

(B) Time Limitation for Final Approval. A final subdivision plat for the first phase of a subdivision that receives a recommendation for final approval from the Planning Commission shall be offered to the County Commission for final approval and recording within one (1) year from the date of the Planning Commission's recommendation for final approval. After one (1) year from that date, the plat shall not be received for recording and shall have no validity whatsoever. Subdivisions with multiple phases must record a new phase within one year from the date of the previous phase being recorded until the subdivision is completed or the plat shall not be received for recording and shall have no validity whatsoever. The Planning Commission may grant one time extension for final subdivision approval for a maximum of one (1) year per subdivision. A multiple phase subdivision may receive only one time extension, not one time extension per phase.

(C) Any subdivision that has received preliminary or final approval, including a subdivision with multiple phases in which all of the phases have received preliminary approval, but has become non-conforming in any manner due to changes in applicable ordinances shall be allowed to retain the density which it was approved provided that the originally approved phasing plan is followed and the time limitations for preliminary and final approval are met.

For your convenience and project coordination, we have listed contact information for the following agencies:

Weber County Engineering, 2380 Washington Blvd., Suite 240, Ogden UT (801) 399-8374

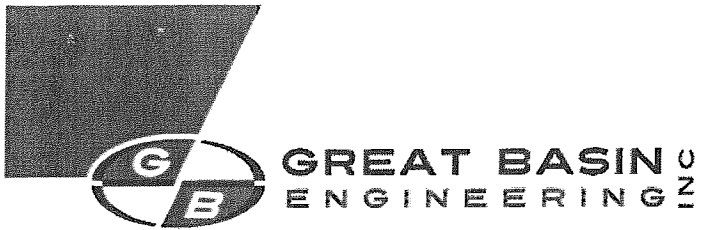
Weber County Treasurer (*To verify taxes are paid*), 2380 Washington Blvd, 3rd Floor, Ogden UT (801) 399-8111

Weber County Fire District, 1871 N 1350 W, Ogden UT (801) 782-3580

Weber County Recorder/Surveyor, 2380 Washington Blvd., Ogden UT (801) 399-8020

Weber-Morgan Health Department – Environmental Health Division, 477 23rd Street, Ogden UT (801) 399-7160

This application can be filled out online at the following Planning Division web site: www.co.weber.ut.us/planning
Copies of the applicable Weber County Zoning Ordinances and other helpful information are also available at this web site.



THE CHALETS PHASE 6, 7, 8
QUAIL LANE
HUNTSVILLE, UTAH
STORM WATER STUDY
Project No. 11N222
3-7-2012

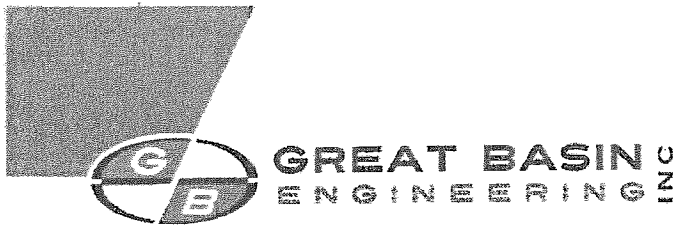
General Site Information:

The proposed Phases 6, 7, and 8 of the Chalets Subdivision are located south of Quail Lane and west of Snow Basin Road in Huntsville, Utah. Construction will consist of an addition to Quail Lane and a road that will be named Hawks Lane as well as a new cul-de-sac called Hummingbird Point in Phase 8 and an emergency access drive. Construction will also include sidewalks, curb and gutter, underground utilities, and several lots prepared for development when completed. Storm water from the site will be detained at a detention pond located just north of the emergency access drive adjacent to an existing drainage. The portion of the Chalets Subdivision that will contribute flows to this detention facility has an area of about 38.7 acres. Storm water from site will be collected in inlet boxes or swales and continue via storm drain pipe or drainage swale to the detention pond and be released at 0.1 cfs per acre for the 10-year storm into the existing unnamed drainage tributary. A small portion of this subdivision area will be retained on lots as they are developed. Also a 264 acre watershed will flow along this drainage tributary as a pass-through flow through the detention pond. Storm water will then continue to the north in this system in a historical fashion to Pine View Reservoir. The attached figure shows the project site and location of storm water outfall. Detention calculations have been provided for the site. (See attached figure and calculations).

The proposed site is considered one drainage area (labeled A-1). Included in the calculations for the detention facility and flows from upstream of the site is an area labeled as "Drainage Watershed". A runoff coefficient of 0.15 was used for natural ground and landscaped areas. A runoff coefficient of 0.90 was used for asphalt, concrete, buildings, and other hard surfaced areas. An average runoff coefficient of 0.34 was calculated for the area within the Chalets contributing to the needed volume in the detention pond.

Rainfall intensities were found on the NOAA website. The values obtained were interpolated as necessary. A copy of this data is attached. As mentioned previously, the allowable release rate from the site is 0.1 cubic feet per second per acre.

Data showing area information, runoff coefficient, time of concentration, peak flow, and required detention for the site is also provided and can be found in the attached calculations.



Pipe Sizes:

Storm water pipes in the project are proposed to be concrete pipe (CP). All pipes in the project are sloped to provide the design capacity while maintaining a minimum scour velocity of 2 feet per second when the pipes are flowing full. The pipes and inlet boxes have sufficient capacity to convey the 10-year storm without surcharging. The 100 year storm will be conveyed with minimal surcharging in the inlet boxes and catch basins. The 30" pipe proposed for under the Emergency Access Road is to handle 93.4% of the 10-year flows from the area labeled "Drainage Watershed" on the attached figure. This is equivalent to 47.64 cfs. The remaining 6.6% plus approx. half of the flows from A-1 contribute to the proposed 18" pipe extending underneath Hawks Lane. This is 16.34 cfs. These two pipes are able to handle these required flows at the proposed slopes.

Orifice Plate:

An orifice plate has been sized for this site. It will be used to control the rate that storm water flows from the project. It will be located at the detention pond (See attached figure). The orifice plate will be 24.0 inches in diameter for the pond to fill completely during a 10-yr storm. The orifice is sized to accommodate pass through flows from the drainage watershed. Since the watershed is 264 acres, the pass through flow is 26.4 cfs at 0.1 cfs/acre. The orifice plate will allow small flows from the development, as well as all 10-year pass through flows from the drainage watershed to pass through without detention. As the rate of storm water into the pipes and above ground detention basins increases, the orifice plate will restrict the flow. The maximum flow through the plate will come when the detention basin reaches the maximum design depth. A detail of the orifice plate is attached.

Required Detention:

The available volume in the detention pond is 37,935 cubic feet. In addition, the pond has an extra volume of 3,641 that is below the outlet elevation, so the pond will have this extra as a constant volume. The required detention for the 10-year storm with a release rate of 0.1 cfs/acre is 35,928 cubic feet for the pond. In the event the pond experiences a storm larger than the design storm water will then spill out over a proposed overflow structure and continue to the north toward Pine View Reservoir in a historical fashion.

Great Basin Engineering, Inc.

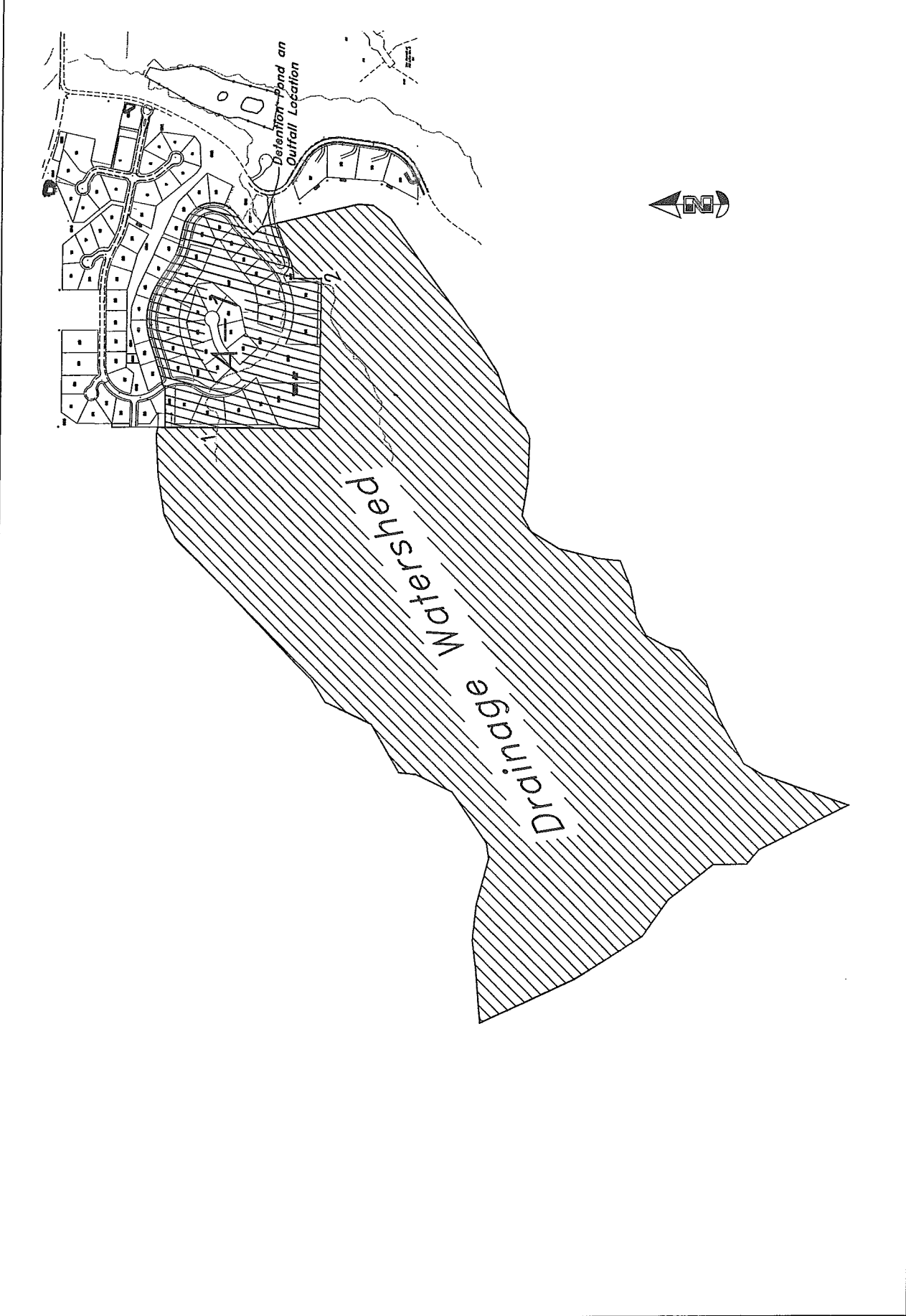
Prepared by Ryan Bingham, P.E.

A handwritten signature in black ink, appearing to read 'R. Bingham', is written over the printed name.

Reviewed by Mark Babbitt, P.E.



REV	DATE	DESCRIPTION



Combined Detention Pond

C =

Allowable Discharge Rate = cfs/acre

Area = acres

Total Release Rate = cfs

Detention Pond Sized For The Year Storm

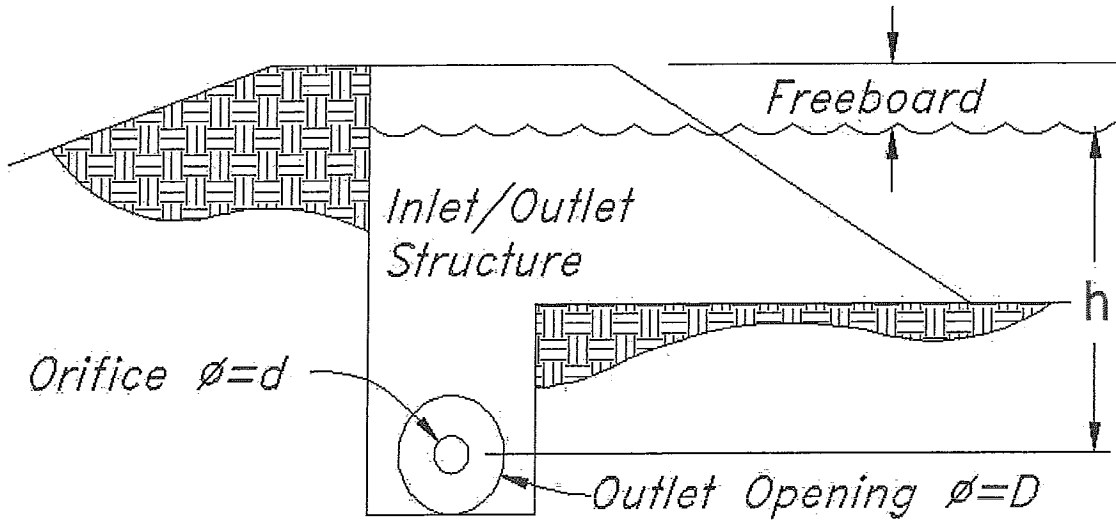
OR

Time min	Rainfall Intensity in./hr.	Accumulated Volume (CF)	Allowable Release (CF)	Needed Detention (CF)	Needed Detention (acre-ft)
5	3.89	15359	1162	14197	0.326
10	3.04	24041	2324	21717	0.499
15	2.47	29277	3486	25791	0.592
20	2.08	32929	4647	28282	0.649
25	1.82	35936	5809	30127	0.692
30	1.63	38662	6971	31691	0.728
35	1.49	41163	8133	33030	0.758
40	1.37	43369	9295	34074	0.782
45	1.27	45204	10457	34747	0.798
50	1.18	46656	11619	35038	0.804
55	1.10	47793	12781	35013	0.804
60	1.03	48752	13942	34810	0.799
90	0.80	56842	20914	35928	0.825
120	0.63	59684	27885	31799	0.730
180	0.44	63026	41827	21199	0.487
360	0.28	80525	83654	-3129	-0.072
720	0.18	103573	167308	-63736	-1.463
1440	0.11	128612	334617	-206005	-4.729

<-Peak Detent

So, our detention pond needs to hold ft³ of water

ORIFICE PLATE CALCULATIONS



$$Q = 0.62 \cdot A_o \cdot \sqrt{2 \cdot g \cdot h}$$

Q = Total Discharge Rate

$$A_o = \frac{\pi \cdot d^2}{4}$$

$$g = 32.2$$

$$h = 3.75$$

$$Q = 30.247$$

Solving for d, we have.....

$$d = \sqrt{\frac{4 \cdot Q}{0.62 \cdot \pi \cdot \sqrt{2 \cdot g \cdot h}}}$$

Substituting Q, G, and H, we have.....

$$d = 2.00 \text{ feet}$$

OR

$$d = 24.0 \text{ inches}$$

Storm Water Study
 Watershed draining toward Chalets Subdivision
 Huntsville, UT
 96n120 ph6 PP1-4.dwg
 3/29/2012

1 Detained Area

Hardscape Cd = 0.90
 Landscape Cd = 0.15

Drainage Areas	Total Area (ft ²)	Total Area (acres)	Hardscape Area (ft ²)	Hardscape Area (acres)	Landscape Area (ft ²)	Landscape Area (acres)	C
Σ Det. Areas	11488726	263.745	0	0.000	11488726	263.745	0.150
Σ All Areas	11488726	263.745	0	0.000	11488726	263.745	0.150
A-1	11488726	263.745	0	0.000	11488726	263.745	0.150

Rainfall Intensities
Data From NOAA

10-Year Storm Intensities

The equations used for the 10-Year Storm Intensities were found using the attached Rainfall data as well as Interpolated data from the produced graphs. The equations developed are 6th order polynomials, which give high "R²" values.

The equations used are:

$$I = At^6 + Bt^5 + Ct^4 + Dt^3 + Et^2 + Ft + G$$

where.....

	10-Yr. Coeff.
A =	3.450E-11
B =	-1.465E-08
C =	2.489E-06
D =	-2.178E-04
E =	1.059E-02
F =	-2.941E-01
G =	5.118E+00

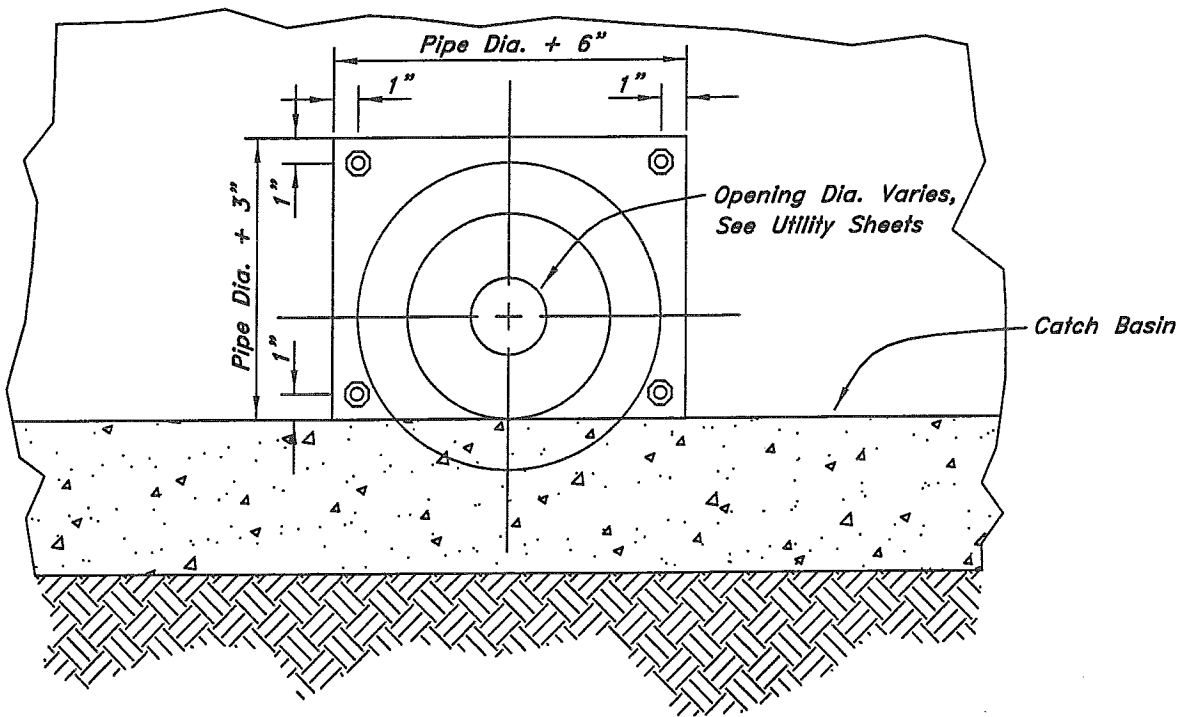
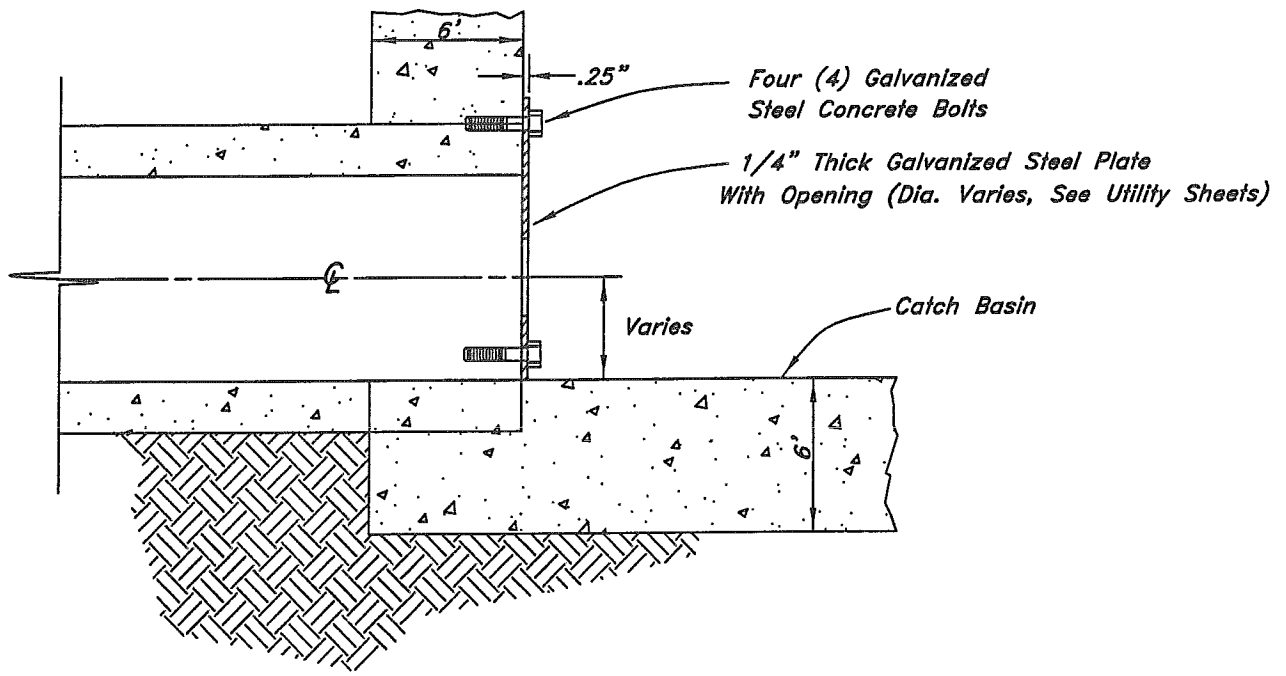
Storm Intensities		
AREA	Tc (minutes)	I (10-yr.) (in./hr.)
A-1	44.1	1.29

Peak Flow Information
Use Rational Method
10-Year Storm Intensities

Q=CIA

AREA	C	I10 (in./hr.)
A-1	0.150	1.289

Peak Flows	
Σ detained =	50.98
A (acres)	Q (10-yr.) (cfs)
263.74	50.98



Orifice Plate Detail



NOAA Atlas 14, Volume 1, Version 5
 Location name: Huntsville, Utah, US*
 Coordinates: 41.2460, -111.7989
 Elevation: 5120ft*
 * source: Google Maps



POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sarah Dietz, Sarah Heim, Lillian Hiner, Kazungu Mailaria, Deborah Martin, Sandra Pavlovic, Ishani Roy, Carl Trypaluk, Dale Unruh, Fenglin Yan, Michael Yekta, Tan Zhao, Geoffrey Bonnin, Daniel Brewer, Li-Chuan Chen, Tye Parzybok, John Yarchon

NOAA, National Weather Service, Silver Spring, Maryland

[PF_tabular](#) | [PF_graphical](#) | [Maps & aerials](#)

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches/hour) ¹										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	1.84 (1.61-2.12)	2.33 (2.05-2.69)	3.17 (2.76-3.65)	3.92 (3.40-4.52)	5.12 (4.34-5.96)	6.24 (5.14-7.33)	7.55 (6.02-8.99)	9.11 (7.01-11.1)	11.7 (8.46-14.6)	14.1 (9.71-18.1)
10-min	1.40 (1.22-1.62)	1.78 (1.57-2.05)	2.41 (2.11-2.77)	2.98 (2.59-3.44)	3.90 (3.31-4.54)	4.75 (3.91-5.58)	5.75 (4.59-6.83)	6.94 (5.33-8.42)	8.87 (6.44-11.1)	10.7 (7.39-13.7)
15-min	1.16 (1.01-1.34)	1.46 (1.29-1.70)	1.99 (1.74-2.29)	2.46 (2.14-2.85)	3.22 (2.73-3.75)	3.92 (3.23-4.61)	4.75 (3.79-5.85)	5.73 (4.41-6.96)	7.33 (5.32-9.18)	8.84 (6.10-11.4)
30-min	0.780 (0.682-0.900)	0.988 (0.870-1.14)	1.34 (1.17-1.54)	1.66 (1.44-1.92)	2.17 (1.84-2.53)	2.64 (2.18-3.10)	3.20 (2.55-3.80)	3.86 (2.97-4.89)	4.94 (3.58-6.18)	5.95 (4.11-7.85)
60-min	0.483 (0.422-0.557)	0.611 (0.539-0.706)	0.829 (0.725-0.955)	1.03 (0.891-1.19)	1.34 (1.14-1.56)	1.64 (1.35-1.92)	1.98 (1.58-2.35)	2.39 (1.84-2.90)	3.06 (2.22-3.83)	3.68 (2.54-4.73)
2-hr	0.314 (0.280-0.357)	0.392 (0.350-0.447)	0.507 (0.448-0.576)	0.615 (0.538-0.702)	0.791 (0.678-0.910)	0.952 (0.798-1.11)	1.14 (0.928-1.35)	1.37 (1.07-1.65)	1.74 (1.28-2.15)	2.08 (1.46-2.64)
3-hr	0.241 (0.217-0.270)	0.299 (0.269-0.335)	0.373 (0.333-0.418)	0.443 (0.393-0.498)	0.556 (0.484-0.629)	0.661 (0.563-0.755)	0.787 (0.654-0.913)	0.936 (0.753-1.11)	1.18 (0.902-1.44)	1.40 (1.03-1.78)
6-hr	0.166 (0.152-0.182)	0.203 (0.186-0.223)	0.245 (0.223-0.270)	0.283 (0.256-0.313)	0.340 (0.304-0.379)	0.388 (0.342-0.435)	0.443 (0.384-0.504)	0.506 (0.429-0.582)	0.630 (0.516-0.740)	0.742 (0.591-0.895)
12-hr	0.107 (0.098-0.118)	0.131 (0.120-0.145)	0.158 (0.144-0.175)	0.182 (0.165-0.201)	0.218 (0.195-0.243)	0.248 (0.218-0.278)	0.280 (0.242-0.318)	0.314 (0.266-0.362)	0.367 (0.302-0.433)	0.411 (0.330-0.494)
24-hr	0.068 (0.063-0.075)	0.084 (0.077-0.091)	0.100 (0.092-0.109)	0.113 (0.104-0.124)	0.132 (0.121-0.144)	0.146 (0.133-0.160)	0.161 (0.146-0.176)	0.176 (0.159-0.193)	0.196 (0.176-0.220)	0.212 (0.188-0.250)
2-day	0.041 (0.038-0.044)	0.050 (0.046-0.055)	0.060 (0.055-0.065)	0.067 (0.062-0.074)	0.078 (0.072-0.085)	0.087 (0.079-0.094)	0.095 (0.087-0.104)	0.103 (0.094-0.113)	0.115 (0.103-0.126)	0.123 (0.110-0.136)
3-day	0.030 (0.028-0.033)	0.037 (0.034-0.040)	0.044 (0.041-0.048)	0.050 (0.046-0.055)	0.059 (0.054-0.064)	0.065 (0.059-0.071)	0.072 (0.065-0.078)	0.078 (0.071-0.085)	0.087 (0.078-0.096)	0.094 (0.084-0.103)
4-day	0.025 (0.023-0.027)	0.031 (0.028-0.033)	0.037 (0.034-0.040)	0.042 (0.038-0.045)	0.049 (0.045-0.053)	0.054 (0.049-0.059)	0.060 (0.054-0.065)	0.066 (0.059-0.072)	0.073 (0.066-0.080)	0.079 (0.070-0.087)
7-day	0.018 (0.016-0.019)	0.021 (0.020-0.024)	0.026 (0.024-0.028)	0.029 (0.027-0.032)	0.034 (0.031-0.037)	0.038 (0.034-0.041)	0.042 (0.038-0.046)	0.045 (0.041-0.050)	0.051 (0.045-0.056)	0.055 (0.048-0.061)
10-day	0.014 (0.013-0.015)	0.017 (0.016-0.019)	0.021 (0.019-0.022)	0.023 (0.021-0.025)	0.027 (0.024-0.029)	0.029 (0.027-0.032)	0.032 (0.029-0.035)	0.034 (0.031-0.038)	0.038 (0.034-0.041)	0.040 (0.036-0.044)
20-day	0.009 (0.009-0.010)	0.011 (0.011-0.012)	0.014 (0.012-0.015)	0.015 (0.014-0.016)	0.017 (0.016-0.019)	0.019 (0.017-0.020)	0.020 (0.018-0.022)	0.021 (0.020-0.023)	0.023 (0.021-0.025)	0.024 (0.022-0.027)
30-day	0.008 (0.007-0.008)	0.009 (0.009-0.010)	0.011 (0.010-0.012)	0.012 (0.011-0.013)	0.014 (0.013-0.015)	0.015 (0.014-0.016)	0.016 (0.015-0.018)	0.017 (0.016-0.019)	0.019 (0.017-0.020)	0.020 (0.018-0.021)
45-day	0.006 (0.006-0.007)	0.008 (0.007-0.009)	0.009 (0.009-0.010)	0.010 (0.009-0.011)	0.012 (0.011-0.013)	0.013 (0.012-0.014)	0.014 (0.012-0.015)	0.015 (0.013-0.016)	0.016 (0.014-0.017)	0.016 (0.015-0.018)
60-day	0.006 (0.005-0.006)	0.007 (0.006-0.008)	0.008 (0.008-0.009)	0.009 (0.008-0.010)	0.010 (0.010-0.011)	0.011 (0.010-0.012)	0.012 (0.011-0.013)	0.013 (0.012-0.014)	0.014 (0.013-0.015)	0.014 (0.013-0.016)

¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS). Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values. Please refer to NOAA Atlas 14 document for more information.

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PF graphical

**UTILITY CONSTRUCTION PROPOSAL
THE CHALETs AT SKI LAKE PHASE 6
WEBER COUNTY, UTAH**

(14 Lots)
March 2012

DEVELOPER: Ray Bowden

ENGINEER'S ESTIMATE
\$527,970.30 / 14 Lots = \$37,712 Per Lot

PROPOSAL

I (We), the undersigned Contractor propose to do the following described work in strict compliance with the Standard Weber County Standards and Technical Specifications at the prices shown. The Contractor shall be licensed to perform such work by the State of Utah and Weber County. The Contractor shall also provide sufficient insurance to hold the owner free from all liabilities. The Contractor shall furnish guarantee that the improvements contemplated by this proposal will remain in good condition for the one year period from the date of acceptance by Weber County. The determination of the necessity for repairs to restore the improvement to good condition rests entirely with the Owner.

<u>SECTION I</u>	<u>QUANTITY</u>	<u>UNIT PRICE</u>	<u>TOTAL AMOUNT</u>
<u>Streets</u>			
1. Rough Grading of Streets to Sub-Base Grade from Property Line to Property Line Surplus Material to be used to fill front Lots (1684 L.F.)	LUMP SUM	\$ 58,800.00 ls	\$ 58,800.00
2. Street Monuments	3 ea	\$ 475.00 ea	\$ 1,425.00
<u>Water</u>			
1. Furnish and install 10-inch C900 P.V.C. Pipe Watermain (Class 200)	1,324 lf	\$ 22.00 lf	\$ 29,128.00
2. Furnish and install 8-inch C900 P.V.C. Pipe Watermain (Class 200)	158 lf	\$ 19.00 lf	\$ 3,002.00
3. Connect to existing Pipe	1 ea	\$ 1,000.00 ea	\$ 1,000.00
4. Connect to existing water tank	0 ea	\$ 1,500.00 ea	\$.00
5. Furnish and construct 8 inch Fire Hydrants with Aux. Valve, Box and Pipe to main, including Tee, Complete Unit	2 ea	\$ 3,500.00 ea	\$ 7,000.00
6. Service Connections complete	14 ea	\$ 1,000.00 ea	\$ 14,000.00
7. Furnish and install 8 inch Gate Valve	1 ea	\$ 850.00 ea	\$ 850.00
8. Furnish and install 10 inch Gate Valve	2 ea	\$ 1,000.00 ea	\$ 2,000.00
9. Furnish and install 2" Blowoff in Vault	0 ea	\$ 1,000.00 ea	\$.00
10. Furnish and install Air Relief Valve	1 ea	\$ 2,000.00 ea	\$ 2,000.00
11. Furnish and install vault for future PRS	0 ea	\$ 5,000.00 ea	\$.00
12. Test and Chlorinate	LUMP SUM	\$ 2,000.00 ls	\$ 2,000.00
		SUB TOTAL	\$ 60,980.00
SECTION I		SUB TOTAL	\$ 121,205.00

NOTE: QUANTITIES LISTED ARE THE ENGINEER'S ESTIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL QUANTITIES.

	<u>QUANTITY</u>	<u>UNIT PRICE</u>	<u>TOTAL AMOUNT</u>
<u>SECTION II</u>			
<u>Sewer</u>			
1. Furnish and install 8 inch Sanitary P.V.C Sewer Main	925 lf	\$ 21.00 lf	\$ 19,425.00
2. Furnish and install 5 foot Diameter Manhole	0 ea	\$ 2,500.00 ea	\$.00
3. Furnish and install 4 foot Diameter Manhole	5 ea	\$ 2,300.00 ea	\$ 11,500.00
4. Connect to existing Sanitary Sewer Main	2 ea	\$ 600.00 ea	\$ 1,200.00
5. Furnish and install Service Connections (complete)	14 ea	\$ 800.00 ea	\$ 11,200.00
6. Temp end - Plug	0 ea	\$ 250.00 ea	\$.00
7. Video and Test	LUMP SUM	\$ 2,000.00 ls	\$ 2,000.00
		SUB TOTAL	\$ 45,325.00

SECTION III

Grading and Paving

1. Fine grading of Streets to Sub-Base Grade, surplus material to fill on Lots (1684 L.F.)	LUMP SUM	\$ 5750.00 ls	\$ 5,750.00
2. Furnish and install structural fill sub-base 8-inches thick	5,934 sy	\$ 9.50 sy	\$ 56,373.00
3. Furnish and install Crushed Gravel Untreated Base Course (8 inch thick)	5,934 sy	\$ 10.50 sy	\$ 62,307.00
4. Furnish and install Oil Mulch Paving (3 inch thick)	5,934 sy	\$ 16.00 sy	\$ 94,944.00
5. Furnish and install Seal Coat	5,934 sy	\$ 2.50 sy	\$ 14,835.00
6. Furnish and install 24 inch wide rolled concrete curb and gutter with 4 inch gravel sub-base	1,882 lf	\$ 13.00 lf	\$ 24,466.00
7. Grading/Reshaping Detention Pond Area	0 cy	\$ 12.00 cy	\$.00
8. Geofabric Mirafi	5,934 sy	\$ 3.00 sy	\$ 17,802.00
		SUB TOTAL	\$ 276,477.00

SECTION IV

Storm Drain

1. Furnish and install Catch Basin (rural)	6 ea	\$ 1300.00 lf	\$ 7,800.00
2. Furnish and install 4 foot diameter manhole with Catch Basin (rural)	0 ea	\$ 2200.00 ea	\$.00
3. Furnish and install 15 inch CP	570 lf	\$ 24.00 lf	\$ 13,680.00
4. Furnish and install 18 inch RCP	0 lf	\$ 27.00 lf	\$.00
5. Furnish and install 12 inch RCP	0 lf	\$ 21.00 lf	\$.00

Utility Construction Proposal
The Chalets at Ski Lake Phase 6
Page 3

Storm Drain Continued

5. Connect to existing Storm Drain	2 ea	\$ <u>300.00</u> ea	\$ <u>600.00</u>
6. Temporary end plug	0 ea	\$ <u>150.00</u> ea	\$ <u>.00</u>
		SUB TOTAL	\$ <u>22,080.00</u>

SECTION V

Trenching

1. Coordinate and provide trenching for Power, Cable TV and Telephone as needed (Verify with Utility Companies)	3,368 lf	\$ <u>2.00</u> lf	\$ <u>6,736.00</u>
2. Erosion Control	LUMP SUM	\$ <u>8150.00</u> LS	\$ <u>8,150.00</u>
		SUB TOTAL	\$ <u>14,886.00</u>

TOTAL OF SECTION I	\$ <u>121,205.00</u>
TOTAL OF SECTION II	\$ <u>45,325.00</u>
TOTAL OF SECTION III	\$ <u>276,477.00</u>
TOTAL OF SECTION IV	\$ <u>22,080.00</u>
TOTAL OF SECTION V	\$ <u>14,886.00</u>
TOTAL OF ALL SECTIONS	\$ <u>479,973.00</u>
PLUS 10% CONTINGENCY	<u>47,997.30</u>
GRAND TOTAL	\$ <u>527,970.30</u>

Work May Be Awarded On Any Or All Sections.

Contractor's State License No.

Contractor

Type of License

By

Insurance Agent

Address

Phone

**UTILITY CONSTRUCTION PROPOSAL
THE CHALETS AT SKI LAKE WATERLINE EXTENSION
WEBER COUNTY, UTAH**

March 2012

DEVELOPER: Ray Bowden

ENGINEER'S ESTIMATE

PROPOSAL

I (We), the undersigned Contractor propose to do the following described work in strict compliance with the Standard Weber County Standards and Technical Specifications at the prices shown. The Contractor shall be licensed to perform such work by the State of Utah and Weber County. The Contractor shall also provide sufficient insurance to hold the owner free from all liabilities. The Contractor shall furnish guarantee that the improvements contemplated by this proposal will remain in good condition for the one year period from the date of acceptance by Weber County. The determination of the necessity for repairs to restore the improvement to good condition rests entirely with the Owner.

<u>SECTION I</u>	<u>QUANTITY</u>	<u>UNIT PRICE</u>	<u>TOTAL AMOUNT</u>
<u>Water</u>			
1. Furnish and install 10-inch C900 P.V.C. Pipe Watermain (Class 200)	3,362 lf	\$ <u>22.00</u> lf	\$ <u>73,964.00</u>
3. Connect to existing Pipe	3 ea	\$ <u>1,000.00</u> ea	\$ <u>3,000.00</u>
4. Connect to existing water tank	0 ea	\$ <u>1,500.00</u> ea	\$ <u>.00</u>
7. Furnish and install 8 inch Gate Valve	1 ea	\$ <u>850.00</u> ea	\$ <u>850.00</u>
8. Furnish and install 10 inch Gate Valve	2 ea	\$ <u>1,000.00</u> ea	\$ <u>2,000.00</u>
9. Furnish and install Air Relief Valve	1 ea	\$ <u>2,000.00</u> ea	\$ <u>2,000.00</u>
10. Furnish and install Drain Valve	1 ea	\$ <u>1,000.00</u> ea	\$ <u>1,000.00</u>
11. Test and Chlorinate	LUMP SUM	\$ <u>2,000.00</u> ls	\$ <u>2,000.00</u>
	SECTION I	SUB TOTAL	\$ <u>84,814.00</u>

