

# ELEVATION CERTIFICATE

**Important:** Follow the instructions on pages 1-9.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

SECTION A – PROPERTY INFORMATION				FOR INSURANCE COMPANY USE	
A1. Building Owner's Name Rudy and Jena Larsen				Policy Number:	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 2933 Lewis Park Cove				Company NAIC Number:	
City Bountiful		State Utah		ZIP Code 84010	
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Lot 614 Lewis Park Subdivision Phase 6					
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Residential</u>					
A5. Latitude/Longitude: Lat. <u>N 40°51'27.5"</u> Long. <u>W 111°52'29.5"</u> Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> NAD 1983					
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.					
A7. Building Diagram Number <u>1A</u>					
A8. For a building with a crawlspace or enclosure(s):					
a) Square footage of crawlspace or enclosure(s) <u>0</u> sq ft					
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <u>0</u>					
c) Total net area of flood openings in A8.b <u>0</u> sq in					
d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No					
A9. For a building with an attached garage:					
a) Square footage of attached garage <u>1,200</u> sq ft					
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade <u>0</u>					
c) Total net area of flood openings in A9.b <u>0</u> sq in					
d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION					
B1. NFIP Community Name & Community Number Bountiful 490039			B2. County Name Davis		B3. State Utah
B4. Map/Panel Number 49011C 0530	B5. Suffix E	B6. FIRM Index Date 06/18/2007	B7. FIRM Panel Effective/ Revised Date 06/18/2007	B8. Flood Zone(s) AE	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 4741.0
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: <input type="checkbox"/> FIS Profile <input checked="" type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other/Source: _____					
B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input checked="" type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date: _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

# ELEVATION CERTIFICATE

OMB No. 1660-0008  
Expiration Date: November 30, 2018

<b>IMPORTANT: In these spaces, copy the corresponding information from Section A.</b>			<b>FOR INSURANCE COMPANY USE</b>
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 2933 Lewis Park Cove			Policy Number:
City Bountiful	State Utah	ZIP Code 84010	Company NAIC Number

## SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on:  Construction Drawings\*  Building Under Construction\*  Finished Construction

\*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO. Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: RM6 on 1991 FIRM adj. to NAVD88 Vertical Datum: NAVD88

Indicate elevation datum used for the elevations in items a) through h) below.

NGVD 1929  NAVD 1988  Other/Source: \_\_\_\_\_

Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.

- |   |               |  |                                 |
|---|---------------|--|---------------------------------|
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor)   | <u>4750.8</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| b) Top of the next higher floor   | <u>4760.6</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| c) Bottom of the lowest horizontal structural member (V Zones only)   | _____         | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| d) Attached garage (top of slab)  | <u>4759.0</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| e) Lowest elevation of machinery or equipment servicing the building<br>(Describe type of equipment and location in Comments) | <u>4750.8</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| f) Lowest adjacent (finished) grade next to building (LAG)  | <u>4750.1</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| g) Highest adjacent (finished) grade next to building (HAG)   | <u>4759.4</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support                                  | <u>4751.1</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |

## SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

Were latitude and longitude in Section A provided by a licensed land surveyor?  Yes  No  Check here if attachments.

Certifier's Name Todd G. Christensen		License Number 375040-2201	
Title Staff Engineer			
Company Name Bountiful City			
Address 790 S 100 E			
City Bountiful	State Utah	ZIP Code 84010	
Signature <i>Todd Christensen</i>	Date 09/01/2016	Telephone (801) 298-6125	

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments (including type of equipment and location, per C2(e), if applicable)

BFE at cross section Q on 2007 FIRM in NAVD88  
Benchmark RM6 is top nut of Hydrant at 633 E 400 N Elev. 4470.75 adjusted upward 3.2' to 4474.05 (or 4474.1' rounded)  
BM and elevations shot with GPS using TURN Utah VRS

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City Bountiful	State Utah	ZIP Code 84010	Company NAIC Number

**SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED)  
FOR ZONE AO AND ZONE A (WITHOUT BFE)**

For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

- E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
- a) Top of bottom floor (including basement, crawlspace, or enclosure) is \_\_\_\_\_ . \_\_\_\_\_  feet  meters  above or  below the HAG.
- b) Top of bottom floor (including basement, crawlspace, or enclosure) is \_\_\_\_\_ . \_\_\_\_\_  feet  meters  above or  below the LAG.
- E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1–2 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is \_\_\_\_\_ . \_\_\_\_\_  feet  meters  above or  below the HAG.
- E3. Attached garage (top of slab) is \_\_\_\_\_ . \_\_\_\_\_  feet  meters  above or  below the HAG.
- E4. Top of platform of machinery and/or equipment servicing the building is \_\_\_\_\_ . \_\_\_\_\_  feet  meters  above or  below the HAG.
- E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance?  Yes  No  Unknown. The local official must certify this information in Section G.

**SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION**

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner or Owner's Authorized Representative's Name

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ ZIP Code \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_ Telephone \_\_\_\_\_

Comments

Check here if attachments.



# ELEVATION CERTIFICATE

OMB No. 1660-0008  
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<b>IMPORTANT: In these spaces, copy the corresponding information from Section A.</b>			<b>FOR INSURANCE COMPANY USE</b>
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City Bountiful	State Utah	ZIP Code 84010	Company NAIC Number


## SECTION G – COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

- G1.  The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
- G2.  A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
- G3.  The following information (Items G4–G10) is provided for community floodplain management purposes.

G4. Permit Number 2014-01 (with Building Permit 12471)	G5. Date Permit Issued 07/07/2014	G6. Date Certificate of Compliance/Occupancy Issued 09/30/2015
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- G7. This permit has been issued for:       New Construction     Substantial Improvement
- G8. Elevation of as-built lowest floor (including basement) of the building:      4750 8       feet     meters    Datum NAVD88
- G9. BFE or (in Zone AO) depth of flooding at the building site:      4741 0       feet     meters    Datum NAVD88
- G10. Community's design flood elevation:      \_\_\_\_\_       feet     meters    Datum \_\_\_\_\_

Local Official's Name Todd Christensen	Title Staff Engineer
Community Name Bountiful	Telephone (801) 298-6125
Signature 	Date 09/01/2016

Comments (including type of equipment and location, per C2(e), if applicable)  
Equipment per c2(e): Furnace/AC and water heater installed on bottom floor

Check here if attachments.



## BUILDING PHOTOGRAPHS

OMB No. 1660-0008  
Expiration Date: November 30, 2018

### ELEVATION CERTIFICATE

See Instructions for Item A6.

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If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.



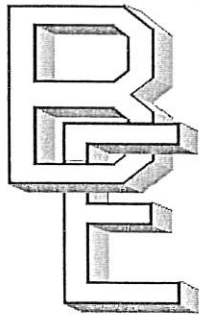
Photo One

Photo One Caption



Photo Two

Photo Two Caption



# Balling Engineering

323 East Pages Lane  
P.O. Box 805  
Centerville, Utah 84014  
Phone: (801) 295-7237  
Fax: (801) 299-0419  
Email: jscottballing@gmail.com

EC Copy

Sept. 30, 2014

Marty Thurgood  
Bountiful City  
Email: mthurgood@bountifulutah.gov

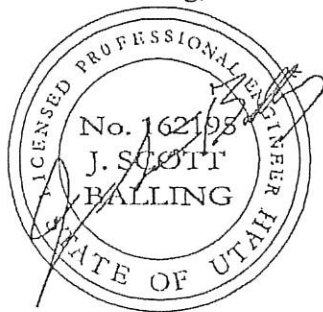
RE: Foundation Verification for Lot 614 at Lewis Park Phase 6  
Marty:

I have checked the location and grade of the home on Lot 614 at Lewis Park Phase 6, and it is in the location according to the site plan within 3 inches.

Thanks

Sincerely

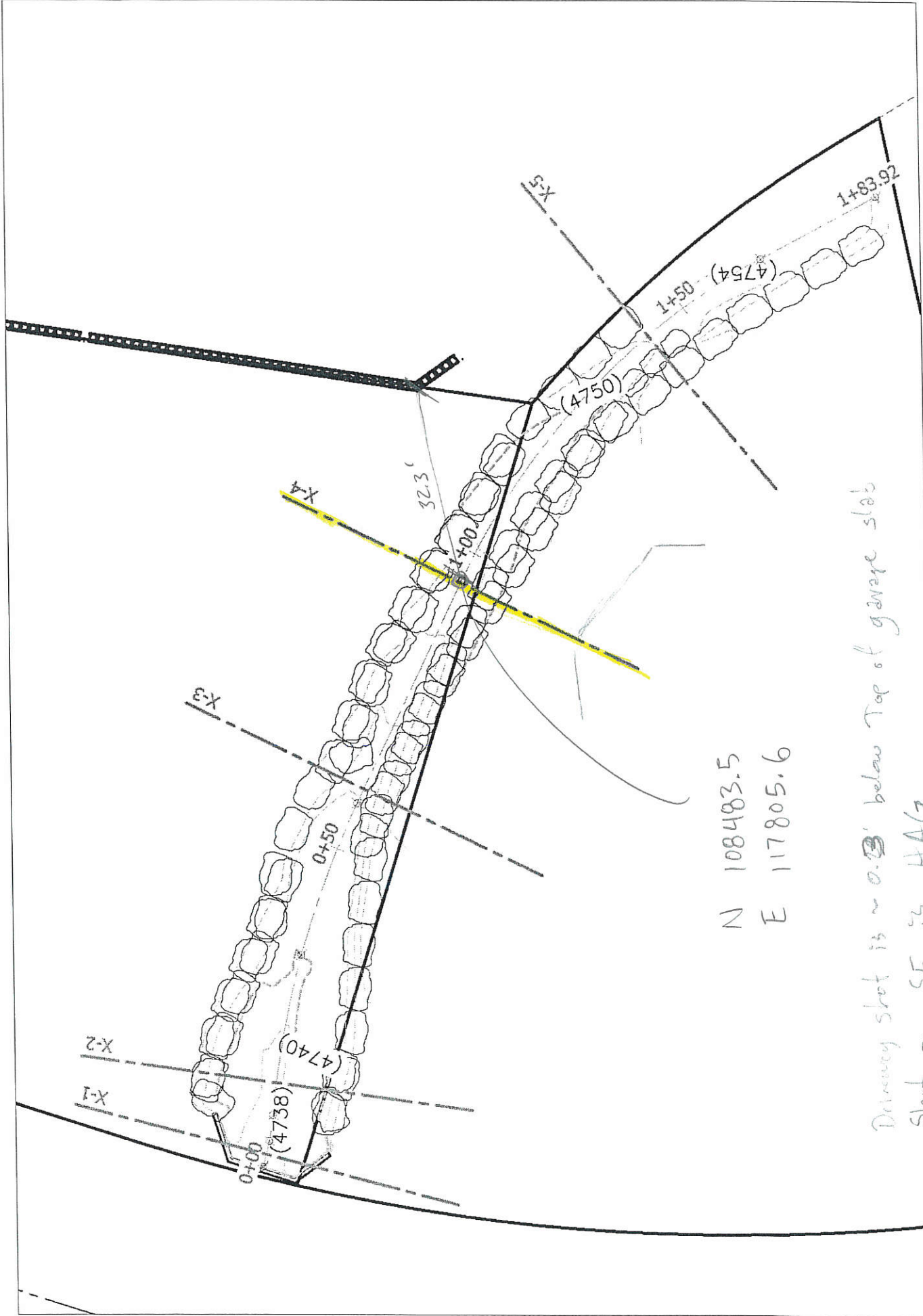
J. Scott Balling, P.E. 162195



2933 S. Lewis Park Cove



# CANAL SECTION LOCATIONS



N 108483.5  
E 117805.6

Driveway shot is ~ 0.3' below Top of concrete slab  
Shot on SE is HAG  
TOF is 0.2' above HAG @ gorge



General Profile  
 Rating Curve  
 Stage & Flow Hydrographs  
 Hydraulic Property  
 Detailed Output  
 Summary Output  
 Generate Report  
 Notes & Warnings  
 Report Output

no rise future X +  
 Profile Output Table - Standard Table 1  
 File Options Std. Tables Locations Help

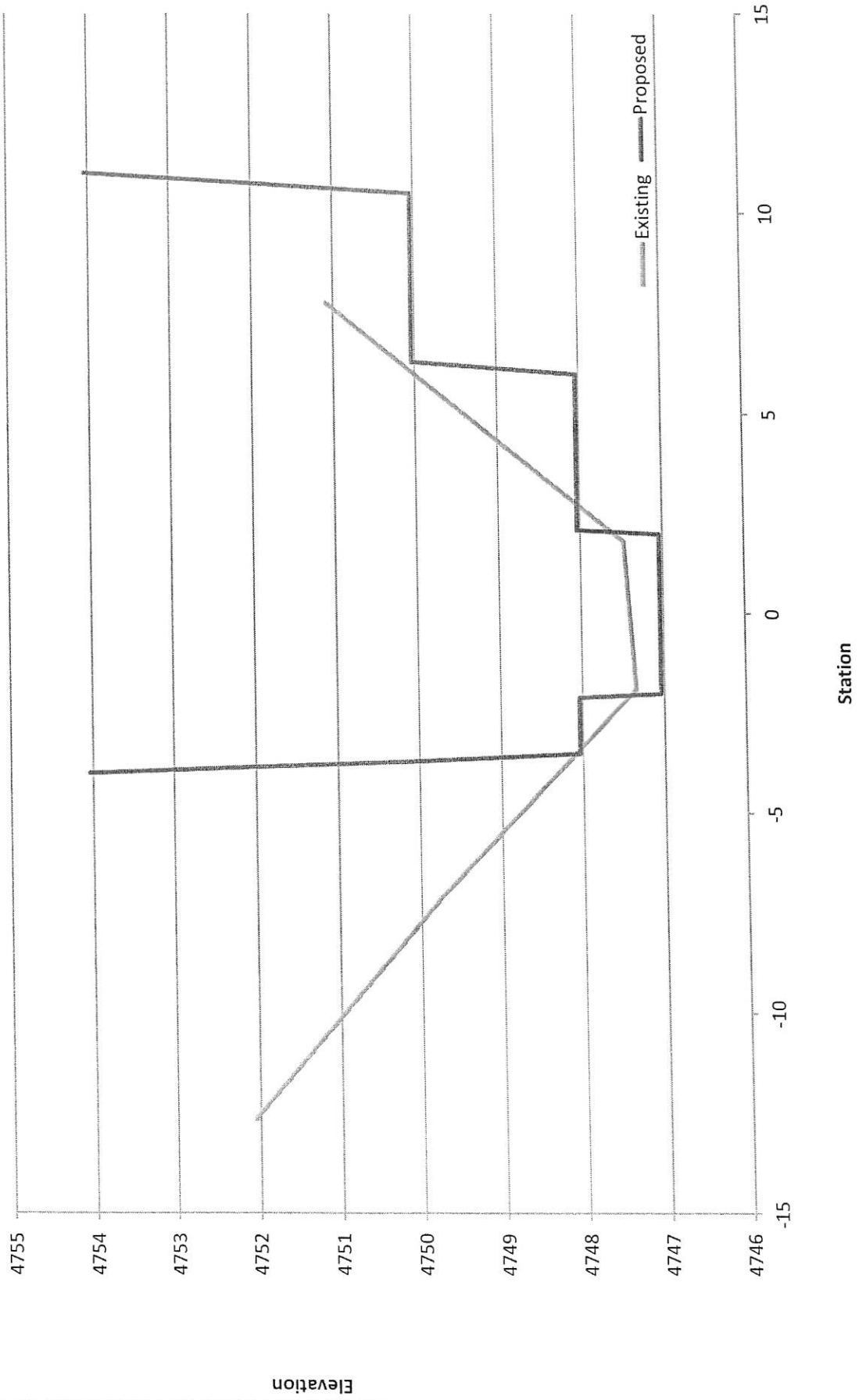
Reach	River Sta	Profile	Plan	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flo (cfs)
01	1004	01	Culvert	250.00	4751.99	4755.84	4755.84	4756.94	0.007747	8.52	
01	1004	01	Proposed	250.00	4751.99	4754.95	4754.95	4757.53	0.023302	14.63	
01	1003	01	Culvert	250.00	4747.34	4750.57	4750.57	4751.62	0.007832	8.24	
01	1003	01	Proposed	250.00	4747.04	4749.90	4749.90	4752.99	0.023250	15.93	
01	1002	01	Culvert	250.00	4743.11	4746.80	4746.80	4748.00	0.009391	8.80	
01	1002	01	Proposed	250.00	4742.90	4746.77	4746.77	4748.01	0.008326	10.48	
01	1001	01	Culvert	250.00	4737.35	4745.48		4745.57	0.000172	2.61	
01	1001	01	Proposed	250.00	4737.35	4745.40		4745.60	0.000445	4.40	
01	1000	01	Culvert	250.00	4736.54	4745.47	4739.85	4745.56	0.000270	2.45	
01	1000	01	Proposed	250.00	4736.54	4745.47	4739.85	4745.56	0.000270	2.45	
01	997.51			Culvert							
01	994.67	01	Culvert	250.00	4736.54	4739.85	4739.85	4741.00	0.009836	8.62	
01	994.67	01	Proposed	250.00	4736.54	4739.85	4739.85	4741.00	0.009836	8.62	

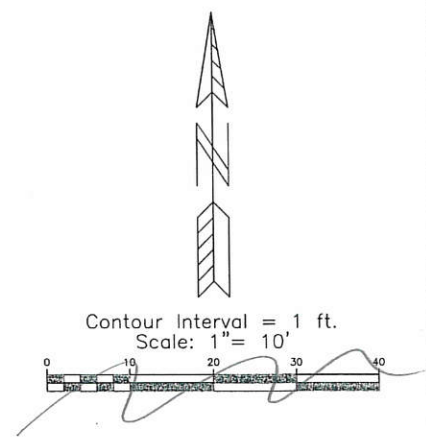
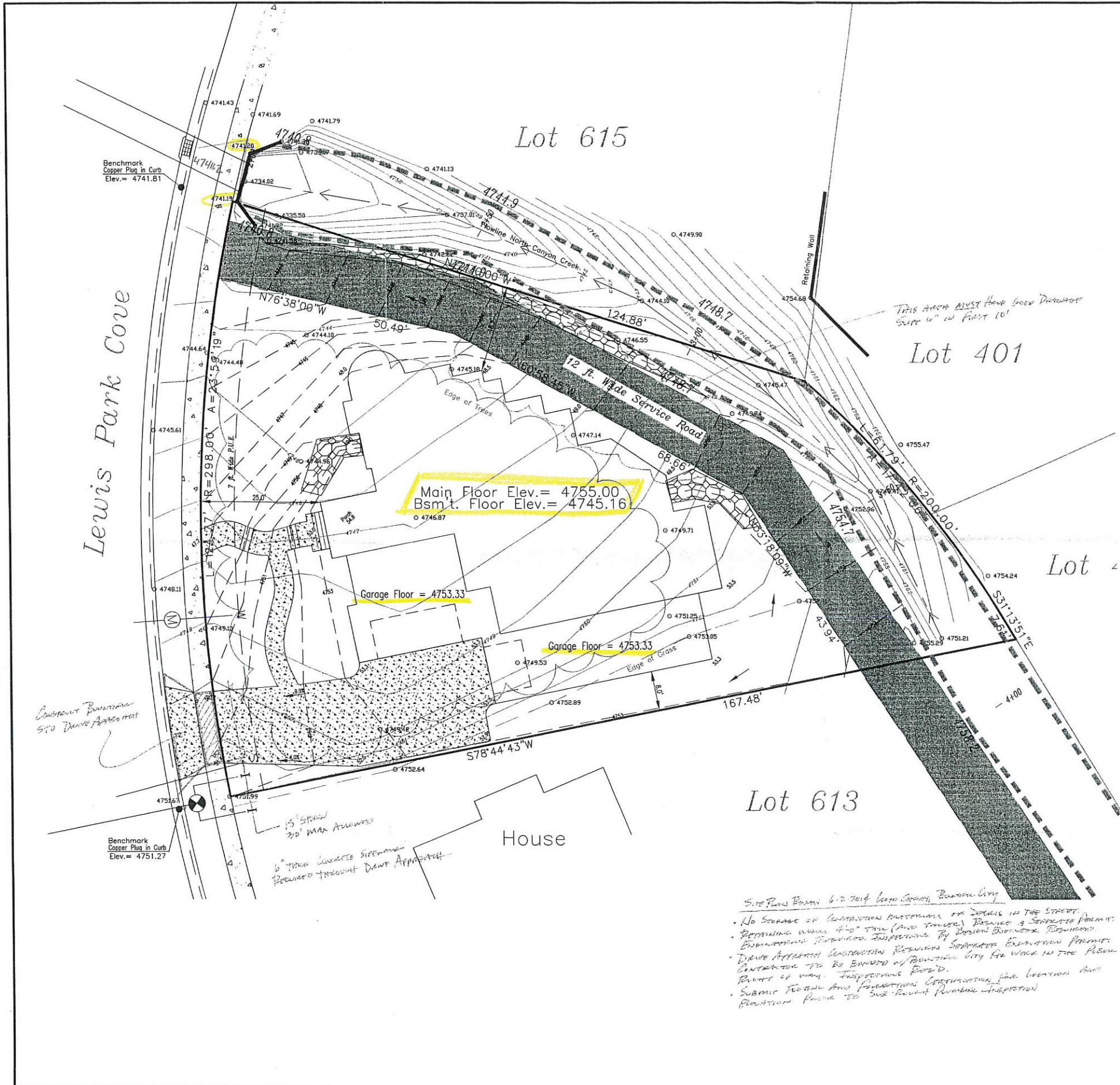
Graphical Output  
 Layer  
 Layer

*x-5 = x s 1004*  
*x-4 = x s 1003*  
*x-3 = x s 1002*  
*x-2 = x s 1001*



# XS 1003





$$\frac{167.5}{217} = .772$$

**Legend**

Fence Line — x — x — x —

Center Line — — — — —

Boundary Line —————

Existing Contour Line ———— 4363 ————

Existing Contour Line ———— 4752 ————

Flood Plain Boundary ———— 4754.7 ————

Base Flood Elev. (BFE) ———— 4754.7 ————

Davis County Flood Control, Service Road [stippled pattern]

Rock Sustained Slope [stone pattern]

Concrete Surface [concrete pattern]

Existing Spot Elevation ○ 4365.25

Finish Spot Elevation ○ 53.3

**Balling Engineering**  
 Civil Engineering \* Surveying \* Planning  
 Phone: (801) 295-7237  
 Fax: (801) 295-0419  
 Email: scott@ballinginc.com

**BE**

**Lot 614, Lewis Park Phase 6**  
 Site Plan For Larsen Residence

For Tyler Brinkman, Rubicon Cont.  
 Phone: (801) 376-3555  
 P.O. Box 1743  
 Bountiful, Utah 84011 Email: tylerbrinkman@rubicon.net

Revisions	Date	Description	By

Surveyor	J.S. Balling
Date Surveyed	10-10-13
Drafting	J. S. Balling
Checked By	J. S. Balling
Submittal Date	5-29-14
File Number	



*Site Plan Form 612-2011 from County, Bountiful, Utah*

- No change of construction materials or details in the street.
- Revising walls 4" to 6" (and thicker) because of structural permit.
- Engineering Review Inspection by Davis County, Bountiful, Utah.
- Drive Approval Construction Reviewing Structural Foundation Permit.
- Construction to be started in Bountiful City for work in the Area.
- Part of way. Inspection Permit.
- Submit Foundation and Foundation Construction for Location and Position Plans to Sub-County Review Inspection.