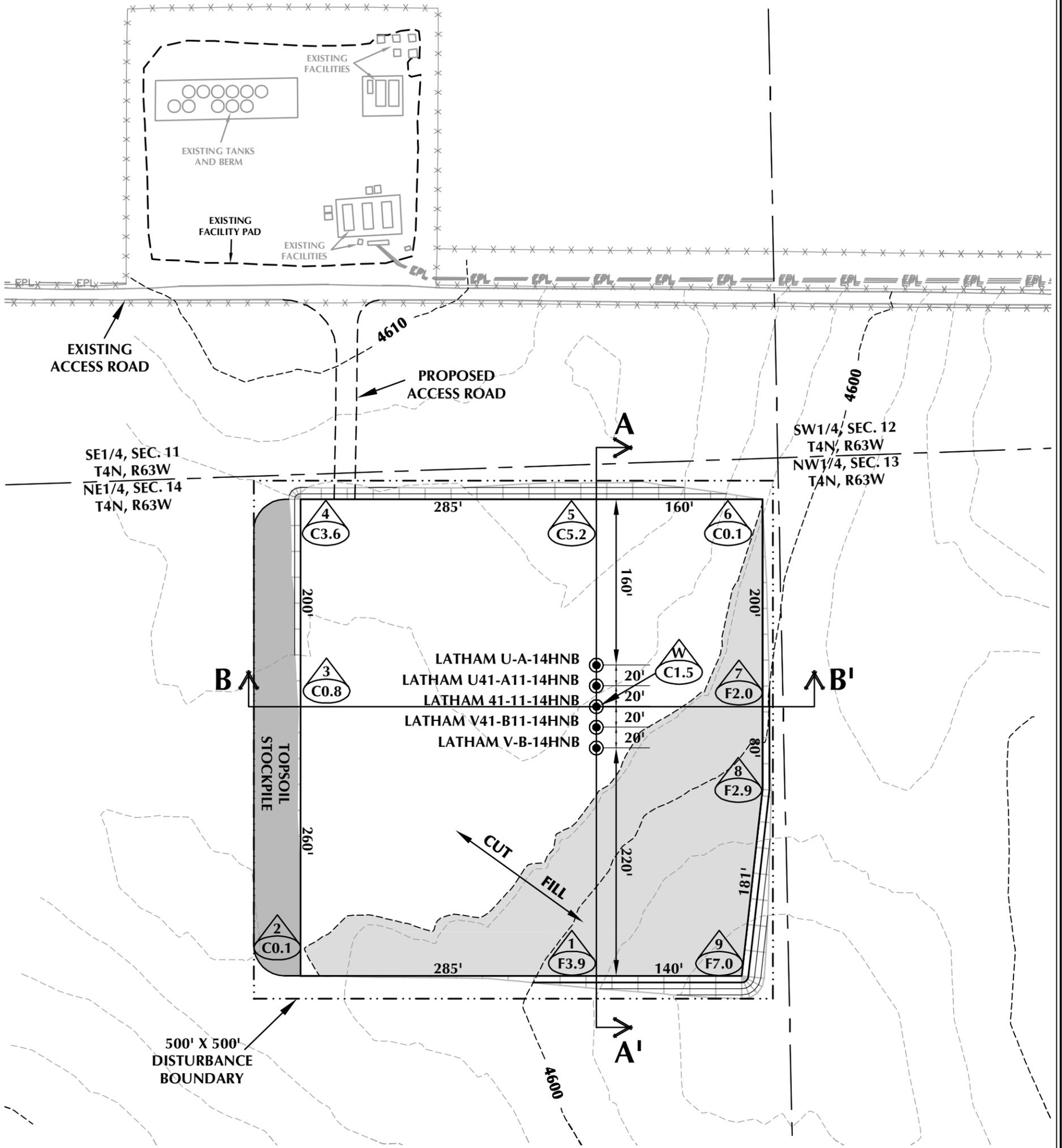


**NOTE:**

1. AFTER COMPLETION OF WELL PAD GRADING, PLATING MATERIAL WILL BE PLACED AT A DEPTH OF 4 INCHES AND COMPACTED USING MOBILE EQUIPMENT.
2. EXISTING UTILITIES DISPLAYED ON THE GRADING PLAN ARE FOR REFERENCE PURPOSES ONLY. PRIOR TO CONSTRUCTION OR EARTHWORK, CONTRACTOR WILL BE RESPONSIBLE TO CALL FOR LOCATES: (800) 922-1987
3. CENTER OF WELL PAD REFERENCED BELOW CORRESPONDS TO THE SURFACE LOCATION OF THE LATHAM 41-11-14HNB WELL.



**WELL PAD - LATHAM U-14 DESIGN SUMMARY**

**WELL PAD QUANTITIES AND DESIGN PARAMETERS**

EXISTING GRADE @ CENTER OF WELL PAD = 4603.7'  
 FINISHED GRADE ELEVATION = 4602.2'  
 CUT SLOPES = 3:1  
 FILL SLOPES = 3:1  
 SHRINKAGE FACTOR = 1.10  
 SWELL FACTOR = 1.00  
 GRADED WELL PAD SURFACE AREA = 4.66 ACRES  
 TOTAL WELL PAD AREA = 5.01 ACRES  
 TOTAL DISTURBANCE AREA = 5.74 ACRES

**WELL PAD QUANTITIES**

TOTAL CUT FOR WELL PAD = 7,855 C.Y.  
 TOTAL FILL FOR WELL PAD = 7,855 C.Y.  
 TOPSOIL @ 6" DEPTH = 4,043 C.Y.  
 EXCESS MATERIAL = 0 C.Y.

PLATING MATERIAL VOLUME  
 TO BE ADDED TO WELL PAD = 2,500 C.Y.  
 (ASSUMING 4 INCHES DEPTH)

**WELL PAD LEGEND**

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- EXISTING PIPELINE
- PROPOSED PIPELINE
- EXISTING FENCE



HORIZONTAL 0 50' 100' 1" = 100'  
 2' CONTOURS

**WELL PAD - LATHAM U-14**

WELL PAD - GRADING PLAN  
 LATHAM U-A-14HNB,  
 LATHAM U41-A11-14HNB, LATHAM 41-11-14HNB,  
 LATHAM V41-B11-14HNB & LATHAM V-B-14HNB  
 LOCATED IN SECTION 14, T4N, R63W, 6TH P.M.  
 WELD COUNTY, COLORADO

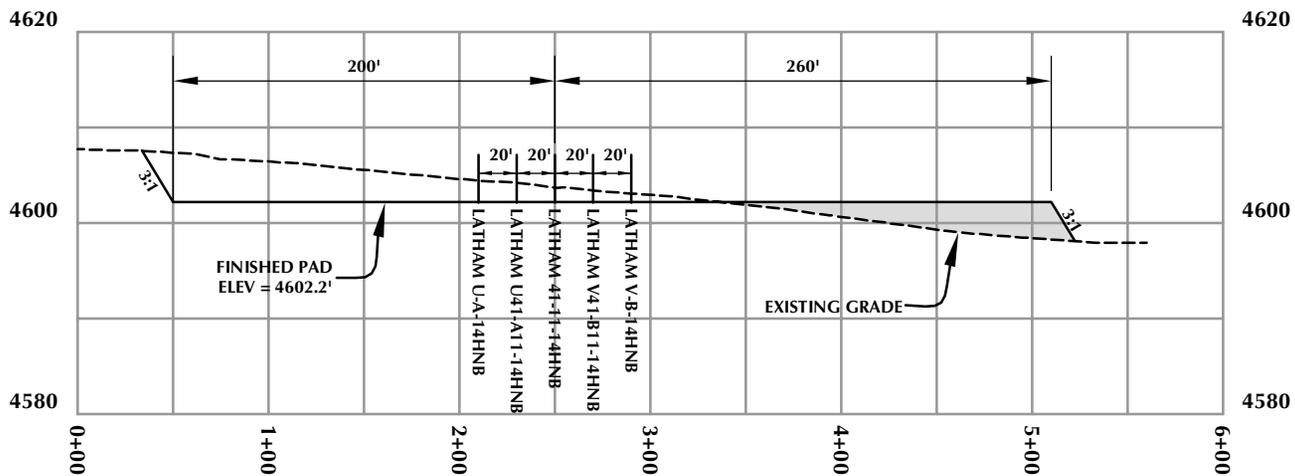
**BONANZA CREEK**  
 410 17th Street, Suite 1400  
 Denver, Colorado 80202



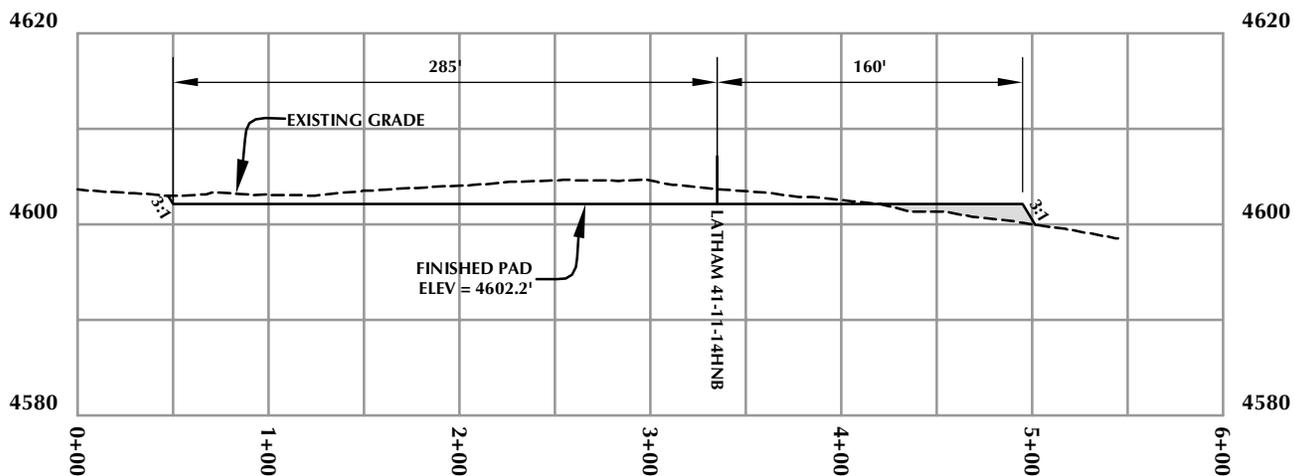
LOVELAND OFFICE  
 1635 Foxtrail Drive, Suite 204  
 Loveland, Colorado 80538  
 Phone 970-776-4331  
 SHERIDAN OFFICE  
 2155 North Main Street  
 Sheridan, Wyoming 82801  
 Phone 307-674-0609

**CONSULTING, LLC**

SCALE: 1"=100' DATE: 1/16/14 SHEET NO:  
 REVISED: **1** 1 OF 2



**CROSS SECTION A-A'**



**CROSS SECTION B-B'**

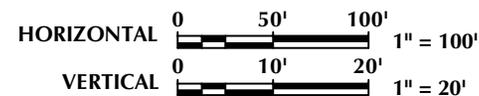
**WELL PAD - LATHAM U-14**

WELL PAD - CROSS SECTIONS  
 LATHAM U-A-14HNB,  
 LATHAM U41-A11-14HNB, LATHAM 41-11-14HNB,  
 LATHAM V41-B11-14HNB & LATHAM V-B-14HNB  
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Scale: 1"=100'	Date: 1/16/14	SHEET NO:
REVISED:		<b>2</b> 2 OF 2