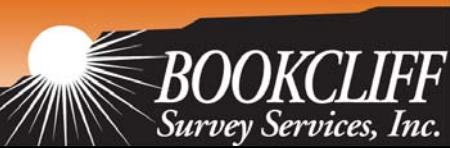


ESTIMATED EARTHWORK QUANTITIES (cy)				
ITEM	CUT	FILL	TOPSOIL	EXCESS
PAD	5220	5500	1730	-2010
TRENCH	7670			7670
TOTALS	12890	5500	1730	5660

- \*NOTE:
- 1.) 10% Swell Factor Applied to Earthwork Cut Volume.
  - 2.) Topsoil Volume Based on 12" Soil Depth and a 15% Swell Factor.
  - 3.) Total Disturbed Area = ±3.59 ac.
  - 4.) Use Excess Pit Material to Complete Pad Surface.
  - 5.) Finish Aggregate Volumes:  
3" depth 3/4" Aggregate = 832 cy  
7" depth Crushed Shale = 1941 cy

REVISED: 8/23/18

136 East Third Street  
Rifle, Colorado 81650  
Ph. (970) 625-2720  
Fax (970) 625-2773



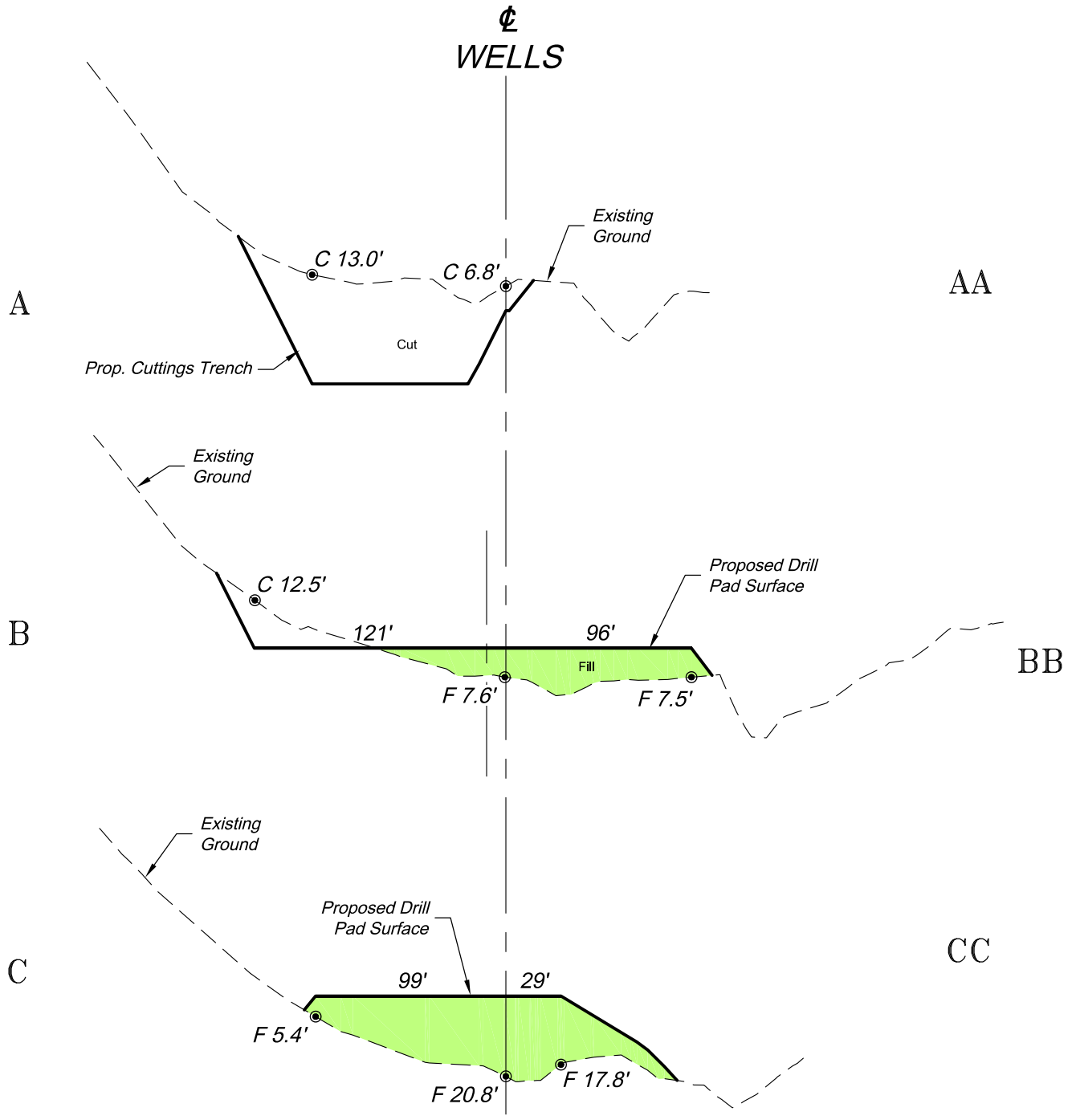
SCALE:	1" = 80'
DATE:	10/31/17
PLAT:	2 of 7
PROJECT:	TEP Valley
DFT:	cs

**Construction Plan Prepared for:**

**TERRA** TEP Rocky Mountain LLC

PA 34-24 Drill Pad - Plat 2  
CONSTRUCTION LAYOUT

K:\2017 TERRA\PA 34-24\PA 34-24.dwg



SCALE: Horiz.: 1" = 80'  
Vert. : 1" = 20'

**\*NOTE:**  
CUT AND FILL SLOPES VARY.  
SEE PLAT 2  
FOR FURTHER DETAILS.

REVISED: 11/13/17

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SCALE: 1" = 80'  
DATE: 10/31/17  
PLAT: 3 of 7  
PROJECT: TEP Valley  
DFT: cs

Construction Plan Prepared for:

**TERRA** ENERGY PARTNERS  
TEP Rocky Mountain LLC

PA 34-24 Drill Pad - Plat 3  
CONSTRUCTION LAYOUT  
CROSS SECTIONS