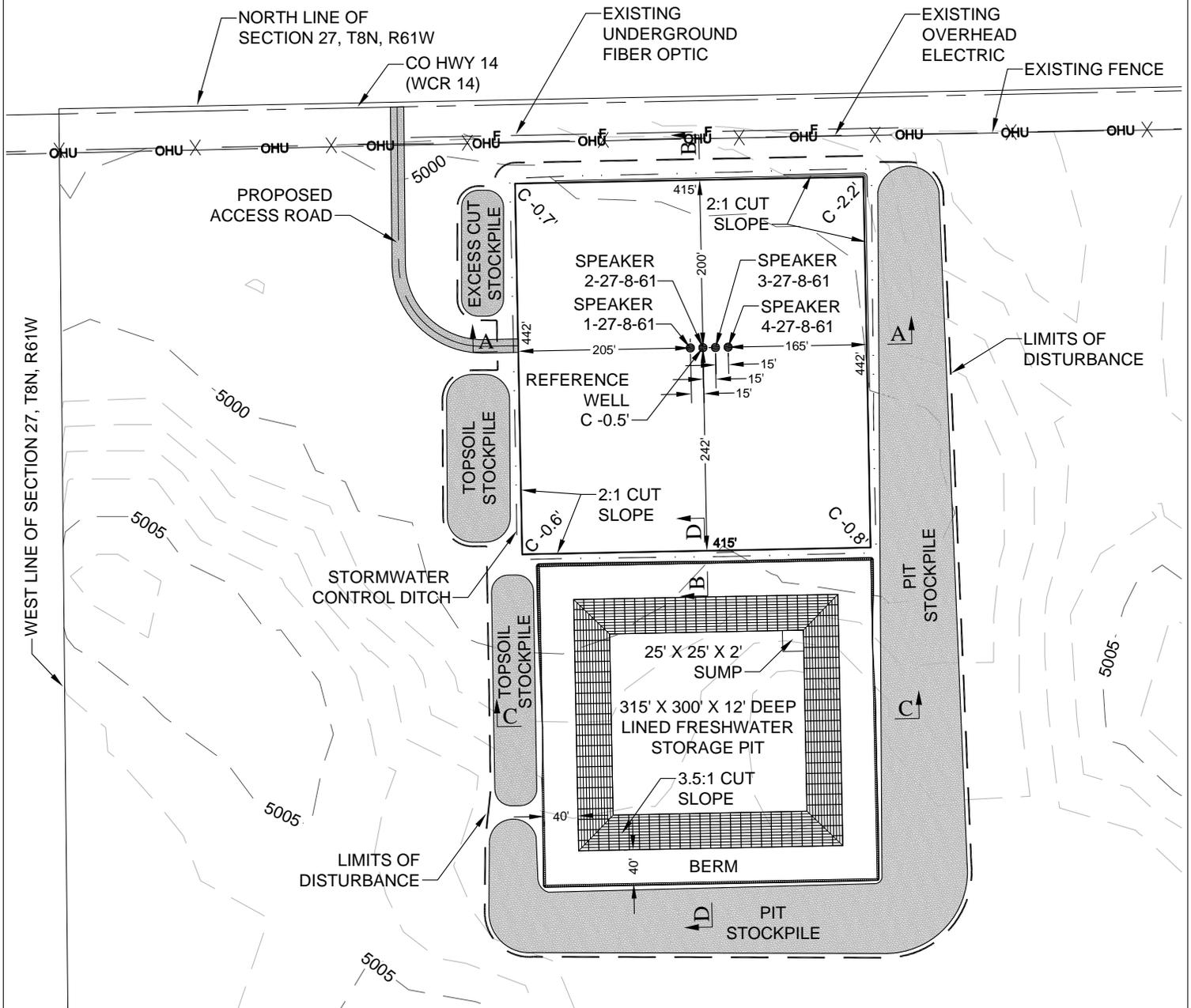
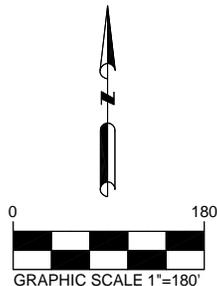


**SPEAKER 27-8-61
CARRIZO NIOBRARA LLC
PAD LAYOUT**



NOTES:

1. A COMPLETE UTILITIES LOCATION IS RECOMMENDED BEFORE CONSTRUCTION.
2. EARTHWORK QUANTITIES ARE APPROXIMATE & FOR INFORMATION ONLY. 6" OF TOPSOIL HAS BEEN SUBTRACTED FROM EXISTING SURFACE PRIOR TO PERFORMING EARTHWORK CALCULATION.
3. STOCKPILES ARE ASSUMED TO BE 10' IN HEIGHT WITH 2:1 SIDE SLOPES.



SITE QUANTITIES

FINISHED GRADE ELEVATION = 4998.80'
 CUT SLOPES = 2:1
 FILL SLOPES = 2:1
 TOTAL CUT FOR PAD = 1,530 CY
 TOTAL FILL FOR PAD (+10% SHRINKAGE) = 193 CY
 NET EXCESS MATERIAL = 1,337 CY
 PIT STOCKPILE = 31,901 CY
 TOPSOIL FROM GRADED AREA = 6,312 CY
 TOTAL DISTURBANCE AREA = 12.52 ACRES

PREPARED BY:



FIELD DATE:
06-11-13

DRAWING DATE:
07-24-13

BY:
CPO

CHECKED BY:
JLF

PAD NAME:

SPEAKER 27-8-61

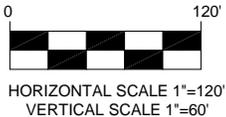
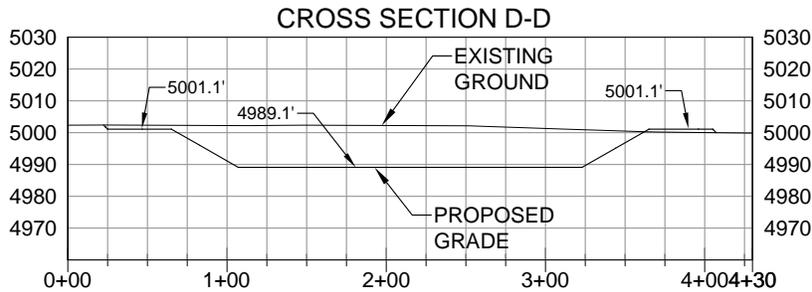
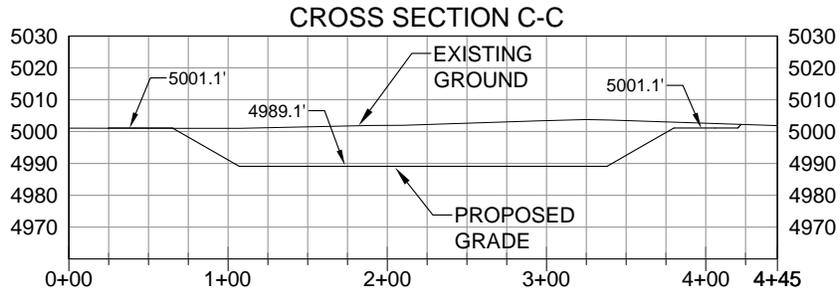
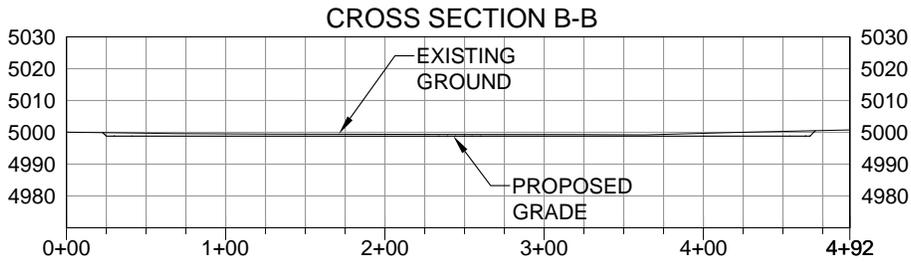
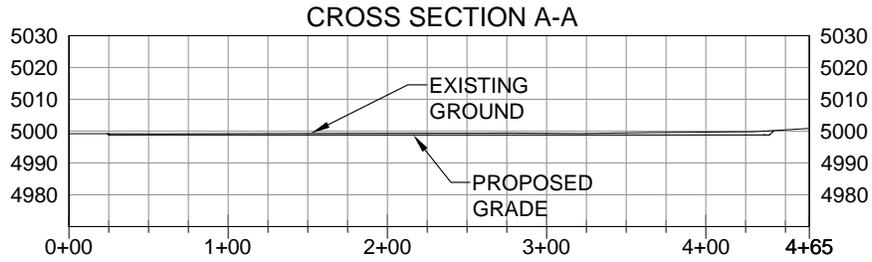
SURFACE LOCATION:

NW 1/4, NW 1/4, SEC. 27, T8N, R61W, 6TH P.M.
 WELD COUNTY, COLORADO

PREPARED FOR:

CARRIZO
 NIOBRARA LLC

SPEAKER 27-8-61
CARRIZO NIOBRARA LLC
CROSS SECTIONS



NOTE:
1. A COMPLETE UTILITIES LOCATION IS RECOMMENDED BEFORE CONSTRUCTION.

PREPARED BY:



FIELD DATE:

06-11-13

DRAWING DATE:

07-24-13

BY:

CPO

CHECKED BY:

JLF

PAD NAME:

SPEAKER 27-8-61

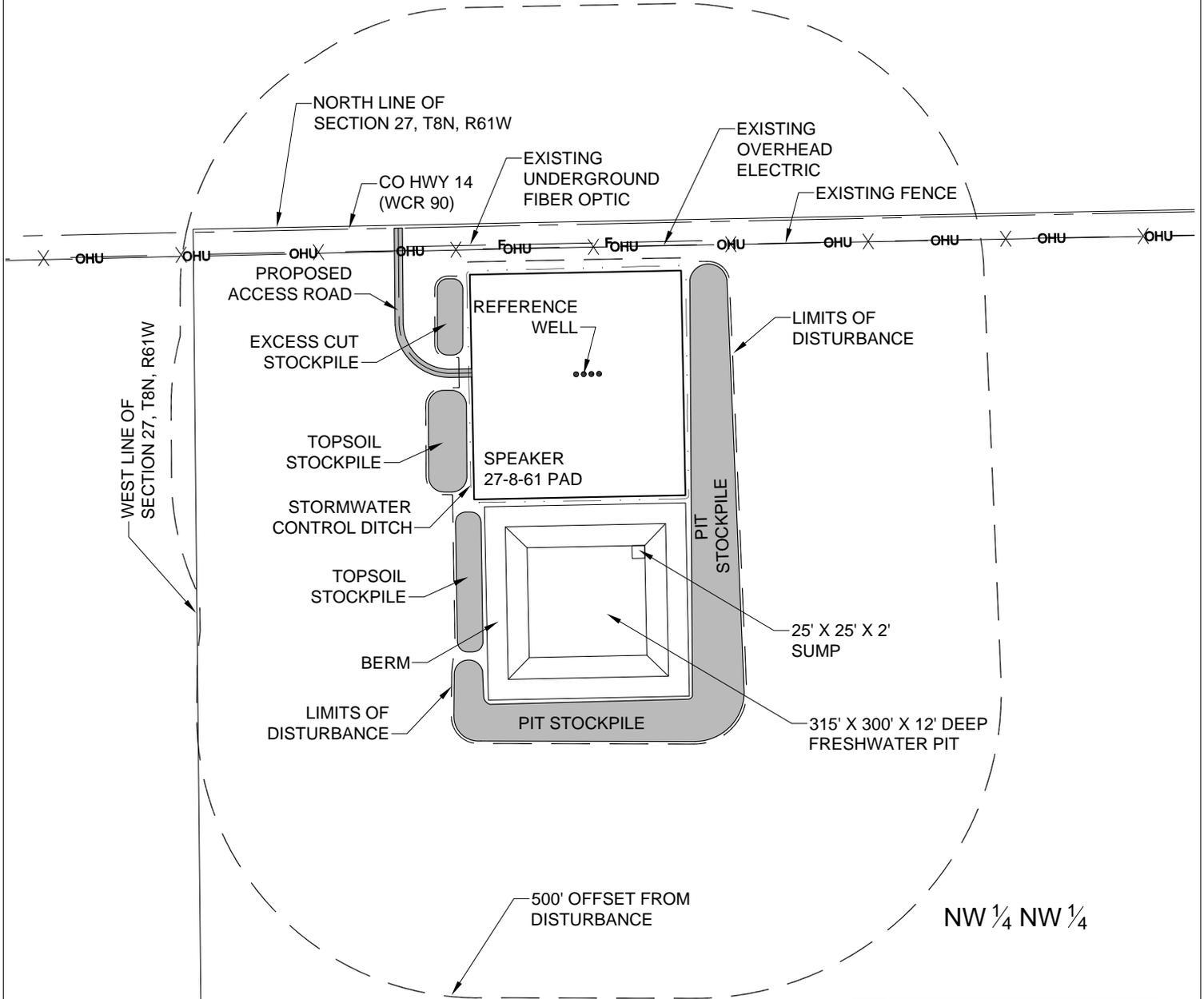
SURFACE LOCATION:

NW 1/4, NW 1/4, SEC. 27, T8N, R61W, 6TH P.M.
WELD COUNTY, COLORADO

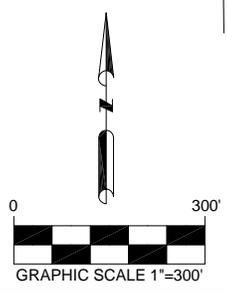
PREPARED FOR:

CARRIZO
NIOBRARA LLC

**SPEAKER 27-8-61
CARRIZO NIobrARA LLC
LOCATION DRAWING**



NW 1/4 NW 1/4



NEAREST:	
PROPERTY LINE - ±300' N	
PUBLIC ROAD - (CO HWY 14) ±302' N	
BUILDING - (HOUSE) ±2522' NE	
RAILROAD - >5280' NE	
POWERLINE - ±254' N	
FOOTAGE: 300' FNL & 764' FWL	SURFACE WATER - (STREAM) >5280' NW
GROUND ELEVATION: 4999'	WATER WELL - ±2437' NE SWL = 240'
PDOP: 2.12	PERMIT: 126281, RECEIPT: 0468958
GPS OPERATOR: BEN HARDENBERGH	FENCE - ±250' N
SURFACE USE: RANGELAND	PROPOSED ACCESS ROAD - ±220' W

REFERENCE WELL
LATITUDE: 40.639215°
LONGITUDE: 104.198884°
FOOTAGE: 300' FNL & 764' FWL
GROUND ELEVATION: 4999'
PDOP: 2.12
GPS OPERATOR: BEN HARDENBERGH
SURFACE USE: RANGELAND

PREPARED BY: PFS Petroleum Field Services, LLC 1801 W. 13th Ave. Denver, CO 80204	FIELD DATE: 06-11-13	PAD NAME: SPEAKER 27-8-61	PREPARED FOR: CARRIZO NIobrARA LLC
	DRAWING DATE: 07-24-13	SURFACE LOCATION: NW 1/4, NW 1/4, SEC. 27, T8N, R61W, 6TH P.M. WELD COUNTY, COLORADO	
	BY: CPO	CHECKED BY: JLF	