

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
DESCRIPTION			REVISED	DATE	

STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION

SURVEY OF
U.S. 177

SWO 4823(1)
J/P NO. 28941(04)

LINCOLN CO.
U.S. 177, BRIDGE OVER BRUSH CREEK, 0.71 MILE NORTH
OF THE POTTAWATOMIE COUNTY LINE

INDEX OF SHEETS

1	TITLE SHEET
2-3	SURVEY INFORMATION (Notes, Letters) & ALIGNMENT DATA
4	CHECK LEVELS & COGO POINTS
5	HORIZONTAL CONTROL DIAGRAM & STATIC DATA
6-9	SURVEY DATA SHEETS

SURVEY BEGAN: 9/25/2012
SURVEY COMPLETED: 9/24/2013

PERSONNEL:	TITLE:
SHAWN SMITH, PLS	PROF. LAND SURVEYOR
PIERCE TRANUM	SURVEY TECH
BOB BLEDSOE	SURVEY TECH
TERRY GLAD, CST II	SURVEY TECH
CLARK FISHER, CST III	SURVEY TECH
SHAUN KOONCE	SURVEY TECH

EQUIPMENT:
TRIMBLE R6 BASE & ROVER GPS
TRIMBLE S6 ROBOTIC TOTAL STATION
SOKKIA SDL-30 DIGITAL LEVEL

STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SWO 4823(1) J/P 28941(04) ; CO. Lincoln

HORIZONTAL CONTROL:

- () Oklahoma Coordinate System of 1927 Zone.
(X) Oklahoma Coordinate System of 1983(2011) North Zone.
() Oklahoma Dept. of Transportation Plane Coordinate System of 1927 Zone.
() Oklahoma Dept. of Transportation Plane Coordinate System of 1983 Zone.
() Arbitrary Coordinate System

HORIZONTAL PLANE DATUM DEFINITION:

The horizontal control for this survey is the NGS Oklahoma State Plane Coordinates System, NAD83(2011), Lambert Projection (North Zone). The combined scale factor for conversion to geodetic distances is 1.00004122.

- Primary Control adjusted to NGS (2nd) Order
Stations OKAO, OKMA, OKPR, NGS JACK
A) Closure before adjustment X Y Angles
Trav. Length No Angles Accuracy 1:20,000
B) ; is () Order before adjustment.
C) Method of Distance Measurement:
() Electronic (X) GPS () Triangulation () Chained
D) Instrument used for angles Trimble R6
- Secondary Control adjusted to Primary Control () Order
Stations L-41-811 & L-41-812
A) Closure before adjustment X Y Angles
B) ; is () Order; Tied to
C) Method of Distance Measurement:
() Electronic (X) GPS () Triangulation () Chained
D) Instrument used for angles Trimble R6, Trimble S6

VERTICAL CONTROL IS (3rd) order. Level Line taken from BM from FAS No. S-251(10)S plans through site benchmarks and tied to BM from FAS No. S-251(6)(7)S plans.

ACCURACY DEFINITION:

- (1) HORIZONTAL: (2nd Order = Class II = 1 : 20,000')
(3rd Order = Class I = 1 : 10,000')
(3rd Order = Class II = 1 : 5,000')
(2) VERTICAL: (1st Order = 0.017 Ft. x sqrt. of MI.)
(2nd Order = 0.035 Ft. x sqrt. of MI.)
(3rd Order = 0.050 Ft. x sqrt. of MI.)

Distribution:
Copy w/ survey reports
Copy in each Alignment
and level book



(FORM SD #20)
Rev. 11/03

Date

