

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

STATE OF OKLAHOMA  
DEPARTMENT OF TRANSPORTATION  
SURVEY DIVISION

SWO 4600(1) J/P 17671(34) ; CO. Dewey

**HORIZONTAL CONTROL:**

- Oklahoma Coordinate System of 1927 Zone
- Oklahoma Coordinate System of 1983(CORS96) 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 Coordinate System, NAD83(CORS96), Lambert Projection (North Zone). The combined scale factor for conversion to geodetic distances is 0.999860457.

- Primary Control adjusted to NGS (2nd) Order  
Stations OKBF, OKCL, OKPR  
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
- Secondary Control adjusted to Primary Control ( ) Order  
Stations D-22-455, D-22-456, D-22-457  
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 Topcon GR3, Topcon GB500, Topcon Hiper+, and Trimble R6

VERTICAL CONTROL IS (3rd) order. Level Line taken from NGS CANADIAN through NGS S112 and tied to D-22-457 ( ) NGVD 29 datum (X) NAVD 88 datum

**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 \_\_\_\_\_ Professional Land Surveyor  
Copy in each Alignment \_\_\_\_\_  
and level book \_\_\_\_\_  
(FORM SD #20) \_\_\_\_\_ Date \_\_\_\_\_  
Rev. 11/03

STATE OF OKLAHOMA  
DEPARTMENT OF TRANSPORTATION

SURVEY OF

U.S. 270

SWO 4600(1)

J/P NO.17671(34)

OKLAHOMA

U.S.270 FROM APPROXIMATELY 2.0 MILES NORTHWEST OF  
THE EAST S.H. 51 JCT. SOUTHEAST APPROXIMATELY 8.0 MILES

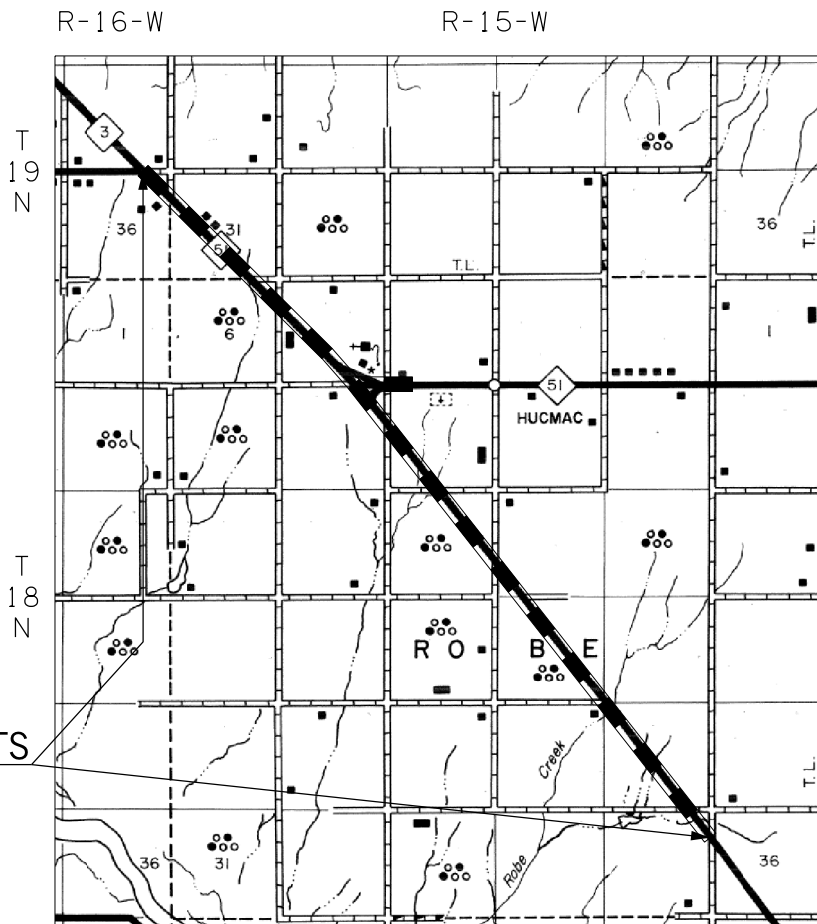
INDEX OF SHEETS

1	TITLE SHEET
2-5	SURVEY INFORMATION (Notes, Letters)
6-10	CHECK LEVELS, COGO POINTS, & ALIGNMENT DATA
11-12	HORIZONTAL CONTROL DIAGRAM & STATIC DATA
19-27	SURVEY DATA SHEETS
28-41	GEOMETRIC DATA SHEETS

SURVEY BEGAN: 5/16/2011  
SURVEY COMPLETED: 2/3/2012

PERSONNEL:	TITLE:
KELLY J. HENDERSON	PROF. LAND SURVEYOR
SHAWN SMITH, PLS	PROF. LAND SURVEYOR
JASON FAVORS, CST II	SURVEY TECH
CLARK FISHER, CST III	SURVEY TECH
TERRY GLAD, CST II	SURVEY TECH
SHAUN KODNCE	SURVEY TECH
SHAWN ACKER, CST I	SURVEY TECH
JASON HARVEY, CST II	SURVEY TECH
BEN HODGE	SURVEY TECH
DAVID RICKETTS	SURVEY TECH

EQUIPMENT:  
TOPCON GR3 BASE & ROVER GPS  
TOPCON HIPER+ BASE & ROVER GPS  
TRIMBLE R6 BASE & ROVER GPS  
TRIMBLE S6 ROBOTIC TOTAL STATION  
SOKKIA SDL-30 DIGITAL LEVEL



PROJECT EXTENTS

PROJECT LENGTH 42905 Ft. 8.13 MI.

BEGINNING STATION : 100+00.000  
ENDING STATION : 529+04.788

Utilities

Utility	Phone Number
Telephone Lines:	
Pioneer Telephone Co-op	800-992-0234
Electric Lines:	
OG&E	405-553-3000
Gas Lines:	
DCP Midstream, LLC	918-492-3331
OneOK	888-675-3302
Koch Industries	316-523-5500
Cimarron Pipeline, LLC	405-286-9797

THIS SURVEY MEETS THE OKLAHOMA MINIMUM STANDARDS FOR THE PRACTICE OF LAND SURVEYING AS ADOPTED BY THE OKLAHOMA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS, MAY 17, 2010.

SPECIFICATIONS FOR SURVEYS FOR PRIMARY AND SECONDARY HIGHWAYS DATED MAY 1, 1999 GOVERN.  
SDS 1 OF 41

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OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION			
PLS	KH		
DRAWN	CF,SK		
CHECKED	SS		
APPROVED	KH		
CREW	JH,SA,BH,DR	SWO 4600 (1)	PROJECT NO. 17671(34) SHEET NO. 51

STATE OF OKLAHOMA  
DEPARTMENT OF TRANSPORTATION  
SWO 4600(1) Job/Piece 17671(34) Engr. Contract No. 1332-A

LAND SURVEYOR'S CERTIFICATION

I hereby certify that all land and property sub-division distances, angles, corners, and monumentation made or used in conjunction with this survey and depicted or recorded herein or hereon were recovered, established or re-established in substantial conformity with:

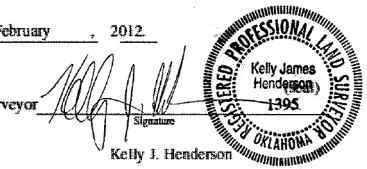
- Applicable instructions contained in the U.S. Government Bureau of Land Management publication "Manual of Survey Instruction";
- Its supplement, "Restoration of Lost or Obliterated Corners and Sub-division of Sections";
- "Oklahoma Minimum Standards for the Practice of Land Surveying" as adopted by the State Board of Licensure for Professional Engineers and Land Surveyors; and
- Sound land surveying practices;

including a thorough search, study, analysis and consideration of all existing records and field evidence.

I further certify that all survey monuments depicted exist and that all land survey work was done by me or under my direct supervision.

Dated this 3rd day of February, 2012.

Land Surveyor



Kelly J. Henderson

Printed Name

Oklahoma Licensed Land Surveyor No. 1395

Certificate of Authorization No. 2054