

Date: August 22, 2013

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

To Mr. Larry D. Reser, Chief of Surveys
 From Derrick E. Anderson, Professional Land Surveyor
 Subject SW04994(1) - J/P No. 27925(04) - S.H. 48 - Creek County.
 Bridge over the Cimarron River, 2.5 miles north of S.H. 51.

HISTORICAL LETTER AND WRITTEN REPORT

GENERAL:
 Survey Began: June 10, 2013
 Survey Completed: August 22, 2013

Personnel on this survey:

Derrick E. Anderson Professional Land Surveyor Lv. II
 Charles W. Pauley Transportation Specialist Lv. V
 Brandon C. Burnett Transportation Specialist Lv. IV
 Jimmie R. Wallace Transportation Specialist Lv. IV
 Lloyd R. Teeter Transportation Specialist Lv. IV

Previous Surveys & Projects relevant to this project:

F.A.S.P. No. S806 (2)S - S.H. 48 Plans - S.H. 48 plans from south of the intersection of S.H. 48 & S.H. 51, north along present S.H. 48 for approximately 7.9 miles. Benham Engineering Company for the Corps of Engineer, Tulsa District - Dated January, 1961.

ASSIGNMENT:
 Authorization for this survey came verbally from Mr. Larry G. Williams, Transportation Survey Manager, on June 5, 2013.

PURPOSE:
 The purpose of this project is to obtain and provide adequate data to design construction plans to replace the existing bridge over the Cimarron River.

SURVEY LIMITS:
 This survey begins at Station 350+00.00 as depicted on F.A.S.P. No. S-806(2)S - S.H. 48 Corps of Engineers plans. From this point centerline was carried northerly along S.H. 48 to Station 420+00.00.

Work on this project was done by the Tecumseh Survey Crew, under the direct supervision of Charles W. Pauley, Transportation Specialist Lv. V.

SURVEY METHOD:
 This survey was performed using a combination of aerial & conventional field methods.

ALIGNMENT:
 The centerline of this survey from is along and identical to the centerline as depicted on F.A.S.P. No. S-806(2)S - S.H. 48 Corps of Engineers plans. Centerline was established using a Brass Cap found at P.I. Station 255+50.03 and by using the centerline split of the bridge over the Cimarron River.

STATIONING:
 Stationing shown on this survey is identical to F.A.S.P. No. S-806(2)S - S.H. 48 Corps of Engineers plans.

HORIZONTAL CONTROL:
 Horizontal Control for this survey is NGS NAD83(2011), established by static GPS observations, using the following control points:
 NGS CORS Monument "OKTE"
 NGS CORS Monument "OKTU"
 NGS CORS Monument "OKPR"
 ODOT Control Monument C-19-959 (established this survey).
 ODOT Control Monument C-19-960 (established this survey).
 ODOT Control Monument P-59-270 (established this survey).
 (See submitted SD Form #20 for complete control information).

COORDINATES:
 Coordinates shown on this survey are the National Geodetic Survey (NGS) Oklahoma State Plane Coordinate System of 1983(2011), North Zone established this survey.

VERTICAL CONTROL:
 Vertical control datum for this survey is NGS NAVD88. Vertical control was established on this survey by using the plan elevation on the north Bridge Seat on the bridge over the Cimarron River as per F.A.S.P. S-806(2)S - S.H. 48 Corps of Engineers plans and adjusting the vertical datum from 1929 datum to 1988 datum. The U.S.G.S. bench mark H-48 was used to establish the vertical control on the F.A.S.P. S-806(2)S - S.H. 48 Corps of Engineers plans. Bench Marks established or used this survey are within the requirements of NGS 3rd order standards as a minimum.

MEASUREMENT UNITS:
 The distances, coordinates, and elevations shown on this survey are in U.S. Survey Feet. All angles and bearings shown are in degrees, minutes, and seconds.

TOPOGRAPHY:
 The following topography information was obtained during the course of this survey:
 -Horizontal and vertical location of all drainage structures.
 -Horizontal and vertical location of the Cimarron River channel 500' upstream & 500' downstream.

ENVIRONMENTAL CONCERNS:
 No contamination areas were encountered this survey.

DRAINAGE:
 Drainage/Hydraulic information for this survey has been shown in the appropriate Microstation Design file. Drainage divide lines and areas were obtained using a scanned raster image of a USGS quadrangle map of the survey area. These areas were also verified by visual inspection in the field, where necessary. Ravine sections were obtained and shown on the drainage design file.

UTILITIES:
 All utility companies that have services within the limits of this project were contacted during the course of this survey. Utilities depicted on the Microstation Design file is shown in the locations which the locator from each utility company marked their lines in the field. Depth information was not given by any owning companies.

RIGHT OF WAY:
 Right of Way shown on this survey was taken from F.A.S.P. No. S-(806)S - S.H. 48 - Corps of Engineers plans.

PROPERTY OWNERS:
 All information on property lines and corners shown were computed using information obtained from the Creek and Pawnee County courthouse without actual field ties to all existing evidence

LAND TIES:
 Land ties for this survey consisted of the establishment of the corners of the following sections: Section 6, T-19-N, R-9-E, 1.M. and Section 36, T-20-N, R-8-E, 1.M. For detailed information about each of the corners established on this survey see Survey Data Sheets 8 and 9 on the main design file.

Derrick E. Anderson, PLS
 Oklahoma Department of Transportation
 Survey Division

Scale:
 1"=100'

PLS	DEA	OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION SURVEY DATA SHEET
DRAWN	DEA	
CHECKED		
APPROVED	LGW	
CREW	Tecumseh	
SWO 4994 (1) PROJECT NO. 27925(04) SHEET NO. 52		