NOTE: ALL DISTANCES SHOWN TO RIGHTS-OF-WAY, FENCES, UTILITIES AND OTHER EXISTING OBJECTS ARE FROM CENTERLINE OF SURVEY.

MATCH EXISTING ROADWAY STA. 22+25. CONTRACTOR TO SHAPE TO DRAIN STA. 21+75 TO STA. 22+25.

21+25 | 25+00 | 30+00

SE/4 SEC 30, T-2-N, R-13-W

SW/4 SEC 29, T-2-N, R-13-W

INDIAN LAND

INDIAN LAND

19+89.40 GATE POST 33.55' LT

19+88.70 GATE POST 17.08' LT

21+51.25 WATER METER 53.11' RT

21+80.50 P.P. 34.32' RT

STAT. R/W

66.00'

NS-246 & ℄ SURVEY
N 00°25'38" E

90°

50'

50'

RP's-ALL
#4 REBAR
3" DEEP

P.O.T. STA 19+79.11
CL OF SURVEY
SET MAG NAIL
W/CEC SHINER

0 25 50 100

4-BARB

5-BARB

ASPHALT

OHE

GRAVEL

TOP OR TOE OF SLOPE

BM #201

BM #202

BM #203

21+00.00
33.00

22+25.00
55.00

26+50.00
60.00

27+60.00
33.00

28+00.00
80.00

28+50.00
59.50

32+00.00
70.00

32+30.00
80.00

CRL N00°03'43"E

R/W

TUG

2-WIRE

DRIVE

CAUTION: ELECTRIC OVERHEAD

P.O.T. STA 27+58.22
CL OF SURVEY
SET MAG NAIL
W/CEC SHINER

RP's-ALL
#4 REBAR
3" DEEP

STA. 28+86.00 LT.
CONST. ASPH. RURAL DRIVE
21' WIDE, 69' BK CRL.

STA. 28+10.00 RT.
CONST. ASPH. RURAL DRIVE
16' WIDE, 71' BK CRL.

29+33.36 12" COMP SD 3.94' LT (REMOVE)

29+45.71 GATE POST 28.56' LT
29+45.74 FENCE CNR 24.96' LT
29+52.83 GATE POST 45.36' LT

29+69.28 P.P. 18.05' LT

29+67.51 TEL. PED. 17.91' LT

29+02.16 FENCE CNR 46.65' RT

29+28.19 18" COMP SD 32.41' RT. (REMOVE)

29+42.04 P.P. 36.79' RT

TRIB. TO BLUE BEAVER

STA. 33+00.00

UTILITY CONTACTS	
COTTON ELECTRIC COOP DAVID BREAK 226 N BROADWAY WALTERS OK 73572 580 – 875 – 3351	AT&T JASON HUITT 7 SW 17TH LAWTON OK 73501 580 – 581 – 5215
COMANCHE COUNTY RWD #4 ROGER WISNER PO BOX 800 CACHE OK 73527-0800 580 – 429 – 8280	CENTERPOINT ENERGY JIM CAMPBELL 101 SW H AVE. LAWTON OK 73501 580 – 250 – 5461

BM 201 STA. 21+80.01 33.33 RT
SET RR SPIKE IN 6" TREE ELEV. 1228.24

BM 202 STA. 24+00.19 7.90' LT.
SET RR SPIKE IN 6" TREE ELEV. 1216.73

BM 203 STA. 26+89.52 6.62' LT.
SET RR SPIKE IN 10" TREE ELEV. 1212.58

SUMMARY OF GRADING QUANTITIES	
EXC.	6,571 C.Y.
EMB.+20%	6,614 C.Y.
BORROW	43 C.Y.

HYDRAULIC DATA							
DRAINAGE AREA = 8.99 SQ. MI.							
Q2	=	669	CFS	Q25	=	3,980	CFS
V2	=	2.05	FPS	V25	=	5.01	FPS
CHW	=	1206.65	FT	CHW	=	1211.80	FT
Q5	=	1,530	CFS	Q50	=	5,100	CFS
V5	=	2.59	FPS	V50	=	6.11	FPS
CHW	=	1209.47	FT	CHW	=	1212.39	FT
Q10	=	2,430	CFS	Q100	=	6,480	CFS
V10	=	3.49	FPS	V100	=	7.46	FPS
CHW	=	1210.59	FT	CHW	=	1213.04	FT
Qot = Q39							

STA. 22+25.00
BEGIN J/P 30440(04)
12.23' RT. CL. SURVEY

L=489.63'
K=79.27

PVC 22+98.13
ELEV = 1221.68

EXIST. GRADE AT CRL

-4.23%

-5.90%

DITCH LT. & RT.

FINSH GRADE AT CRL

LOW POINT 26+33.47
ELEV = 1214.58

-2.11%

-0.30%

-1.21%

PVI 25+42.94
ELEV. = 1211.32

CHNL. ℄ RIGHT (DOWNSTREAM)

BRIDGE "A": 105' X 26' CLEAR ROADWAY CONVENTIONAL PCB SPAN SKEWED 30 DEGREES LEFT FORWARD WITH TR-3 CONCRETE RAILS. CENTERLINE STATION 30+06.40.

EXISTING BRIDGE: 38' STEEL GIRDER SPAN. (REMOVE)

STR. NO. 1 STA. 28+10 RT.
CONST. 30" X 38 L.F. CGMP
W/PCES EACH END
PVT 27+87.75
ELEV = 1216.08

STR. NO. 2 STA. 28+86 LT.
CONST. 30" X 44 L.F. CGMP
W/PCES EACH END

PVI 28+75.87
ELEV = 1217.80

PVC 28+08.37
ELEV = 1216.49

PVT 29+43.37
ELEV = 1217.80

STA. 29+51.29
BEGIN BRIDGE "A"
BK. FC. BKWL.

STA. 30+61.51
END BRIDGE "A"
BK. FC. BKWL.

110.22'

0.00%

1.95%

-2.50%

PVI 31+75.87
ELEV = 1217.80

0.50%

1.98%

DITCH LT. & RT.

PVC 30+98.33
ELEV = 1217.80

PVT 32+53.41
ELEV = 1215.86

L=135.00'
K=69.36

L=155.07'
K=62.00

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