N: 1,684,228.5873, E: 1,655,589.2731
WL 1, Sta. 45+51.22
1" RJ 45° Bend
1" RJ 11 1/4° Bend

N: 1,684,227.4496, E: 1,655,598.4570
WL 1, Sta. 45+60.47
1- 48" RJ 45° Bend (Vert.)
Defl.= 44°59'26"

N: 1,684,225.4521, E: 1,655,614.5797
WL 1, Sta. 45+76.72
1- 48" RJ 45° Bend (Vert.)
Defl.= 45°11'12"

***SPECIAL CLASS**
THE PRESSURE CLASS FOR DUCTILE IRON PIPE SHALL BE INCREASED TO 350 PSI FROM STATION 45+60.47 TO STATION 51+30.72.

PRE-STRESSED CONCRETE CYLINDER PIPE SHALL BE DESIGNED IN ACCORDANCE WITH AWWA STANDARD C304 WITH AN EXTERNAL LOADING BASED ON A SOIL DENSITY OF 120 POUNDS PER CUBIC FOOT AND A BEDDING TYPE R4. ASSUMING A DEPTH OF BURY OF 25 FEET IN EMBANKMENT LOADING FROM STATION 45+60.47 TO STATION 51+30.72.

CAUTION!!! Buried Fiber Optic Line (Lightcore)

CAUTION !!! 12" Waterline (City of Wichita)

CAUTION !!! Existing 42" Sanitary Sewer

CAUTION !!! Buried Electric (KDOT)

CAUTION !!! Existing 54" Sanitary Sewer

CAUTION!!! High Voltage Electric Transmission Line overhead. Use extreme caution when working in this vicinity.

CAUTION !!! 12" Waterline (City of Wichita)

N: 1,684,160.1665, E: 1,656,141.5510
WL 1, Sta. 51+07.72
1- 48" RJ 45° Bend (Vert.)
Defl.= 44°59'21"

SCALE:
PLAN: LAT. & LONG. 0 20 40
PROFILE: HORIZ. SAME AS ABOVE
VERT.

Steel Casing

Concrete

Retaining Wall

SOUTH BOUND I-135

NORTH BOUND I-135

Wood Fence

Buried Electric

Highway Right of Way

8" Map

30" Bush

12" Chip

14" tree

8" Oak

Asphalt Shoulder

Concrete Barrier

9.25'- 48" Pipe

23.05'- 48" Pipe (*Special Class)

Remove and replace 10 L.F. Concrete Sidewalk.

Install Erosion Control 60 L.F. Silt Fence

WL Sta. 45+83.97 to WL Sta. 50+94.97
Install 511.00 L.F. Steel Casing by microtunneling. (Min. O.D. = 66", Min. Wall Thickness= 0.875")

531.00'- 48" Pipe (*Special Class)

Install Erosion Control 60 L.F. Silt Fence

Proposed Service Box Assembly (See Sheet No. 2 for Details)

Remove and reset fence as necessary for construction. Cost subsidiary to Site Clearing and Site Restoration.

Temp. Const. Esmt. (Film 2900, Page 4781)

40' Temporary Construction Easement (Film 2906, Page 4781)

Temp. Const. Esmt. (Film 2900, Page 4781)

45° Seg. Block Culvert SW.

Unless noted otherwise, elevations shown are top of pipe

## WATERLINE NO. 1

D.I. - 556.50 L.F. RJ Pipe
PCCP - 556.50 L.F. RJ Pipe

45° Bend / 11 1/4 Bend
45° Bend (Vertical)
45° Bend (Vertical)
Exist. 12" Waterline Top of Pipe= 1288.54
Exist. 42" Sanitary Sewer L= 1283.14
Buried Fiber Optic
Buried Electric
Existing Ground
Exist. 54" Sanitary Sewer L= 1279.80
Exist. 12" Waterline Top of Pipe= 1285.24
45° Bend (Vertical)

VERTICAL DEFLECTION TABLE
∠34 = (44°59'26")
∠35 = 45°11'12"
∠36 = 44°59'21"

Top of Proposed 48" Water Main
Steel Casing

+51.22 +60.47 +76.72 +07.72

1286.28 1286.25 1269.90 1269.90 1269.92 1269.94 1269.96 1269.98 1270.00 1270.00

1305 1300 1295 1290 1285 1280 1275 1270 1265

46+00 47+00 48+00 49+00 50+00 51+00

PLAN | BY | DATE | CHECKED | CHECKED

PROFILE | CHECKED | CHECKED

SOUTHEAST 48" WATERLINE - PHASE 2A
LEWIS/IDA TO LEWIS/GREEN

WATERLINE NO. 1

JAMES L. ARMOUR, P.E. - CITY ENGINEER
CITY OF WICHITA, PROJECT NO. 448-90417

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Job No. 35-07704-000
Date March 2008
Designed By MDK, EJB
Drawn By JAN



Saved 01-30-2009 9:06:46 AM by JAN
Scale: 1:1 on 24x36 (1:2 on 12x18)
Q:\2007\07704\000\PHASE 2A\07704-000-C-WLPP11 01-30-2009 9:11:13 AM by JAN