Channel Change ℄ Sta. 38+30±
Tributary P.I. Sta. 20+00

P.T. ℄ Sta. 21+30.56
=33.02' Lt. ℄ Sta. 39+91.98
20' Rt. ℄ Sta. 39+93.16

P.T. ℄ Sta. 42+00
=35' Rt. ℄ Sta. 42+00

P.C. ℄ Sta. 18+39.08
=129.52' Rt. ℄ Sta. 37+33.16
Elev. 121.41

℄ Channel Change
20 Channel
℄ Armour Trib.

244' R
Δ=65°29'03"

255' R
Δ=65°29'45"

P.C. 11' Rt. ℄ Sta. 18+40.18
=134.26' Rt. ℄ Sta. 37+42.61
Elev. 124.41

P.C. 22.5' Rt. ℄ Sta. 18+39.35
=144.26' Rt. ℄ Sta. 37+49.47
Elev. 124.66

P.T. 35' Rt. ℄ Sta. 21+26.54
=56.24' Rt. ℄ Sta. 39+84.32
Elev. 126.40

P.T. 10' Rt. ℄ Sta. 21+31.67
=42.87' Rt. ℄ Sta. 39+90.22
Elev. 125.83

P.C. ℄ Sta. 18+40.18 to
P.T. ℄ Sta. 21+31.67
Transition from 11' Rt. to
10' Rt. and from 2:1 side
slope to 1:1 side slope.

Channel Change ℄ Sta. 38+30
Tributary P.I. Sta. 20+00
See Detail

GYPSUM CREEK

Exist. R/W

MARYLAND DRIVE

DOREEN

℄ Proposed Channel Change

BAYLEY

MATCH LINE

BROADMOOR AVE.

Exist. Iron

℄ Armour Tributary

Drainage R/W 65' ℄

M.H. 38.05

Channel Sta. 10+37.62 = ℄
(185.0' W.N.W. along ℄
from Iron shown)

Sta. 10+31.70 Install
18"x26' C.M.P. (B.B.) with
End Section 35.5' Lt.
Connect to Exist. Curb
Inlet. Remove Exist.
18"x18' C.M.P. See
Sh. No. 21 for Details.

ARMOUR DR.

Exist. 65' Drainage R/W

See Sht No. 21 for riprap
detail @ 6" San. Sewer.

Street & Drainage R/W = Exist. R/W 30' ℄

P.I. Sta. 12+67.50
Δ=8°26'02" Rt.
(No Curve)

ARMOUR TRIBUTARY

℄ Proposed Armour Tributary Channel Change

Top of Levee Elev. 136.0

Drainage R/W

105' Drainage R/W 65' Rt.

Exist. R/W

Exist. 18" V.C.P. Sanitary Sewer

M.H. 37.27
℄ 17.73 NE
℄ 17.69 SW

P.C. Sta. 39+08

120' ℄ Dual 140' Rt.

℄ Sta. 37+28-107' Rt. to
℄ Sta. 37+70-113' Rt. Const.
Concrete Encasement & Cutoff Wall for existing 30" V.C.P. Sanitary Sewer
See Sh. No. 18

℄ Sta. 37+42-92' Rt. to
℄ Sta. 37+80-99' Rt. Const.
Concrete Encasement & Cutoff Wall for existing 18" V.C.P. Sanitary Sewer
See Sh. No. 18

℄ P.O.T. Sta. 38+30
1. ½" Iron Post @ Channel Change ℄
2. Nail & Bottle Cap in 30" Hedge Tree 63.8' S.E.
3. Center of San. Sewer M.H. 107.9' N.W.
4. Nail & Bottle Cap in 12" Hedge Tree 57.0' S.W.

℄ P.O.T. Sta. 42+02.00
1. ½" Iron Post @ Channel Change ℄
2. Nail & Bottle Cap in cut off Pole 81.1' S.W.
3. Nail & Bottle Cap in 5" Cottonwood 25.8' E.
4. Wire & Bottle Cap on K.T.A. R/W Fence 95.3' S.E.

REVERSE CURVE DATA
(Arc. Def.)
℄ GYPSUM CREEK CHANNEL
P.I. 35' Rt. ℄ Sta. 44+58.56 ℄ P.I. ℄ Sta. 47+73.77
Δ= 6°20'10" Lt. (Rt.)
D= 2°
R= 2864.79'
T= 158.56'
L= 316.81'

Drainage R/W = Exist. Kansas Turnpike R/W

1/16 Sec. Line ?

℄ Sta. 40+68 Install
24"x100' C.M.P. 100' Rt.
with Armco Medium
Duty Flap Gate #10C,
or approved equal and
End Section.

℄ Sta. 47+18-81' Lt. Remove
1'-0"± Exist. Conc. Flume
Extend to 45' Lt.
(42 Sq. Yds. Conc. Ditch Lining)
See Sh. No. 20

℄ Sta. 49+66 Remove
Exist. Manhole 25' Rt.
℄ Exist. 18"x350' V.C.P. (N.E.) *
℄ Exist. 18"x425' V.C.P. (S.W.) *
See Note this Sheet

245'-0"

Δ=20°00'
R=975.00'
T=171.92'
P.T. 38+77
Sec.

℄ Proposed Gypsum Creek Channel Change

P.R.C. 1.75' Rt. ℄ Sta. 46+16.6

60' ℄ 40' Rt.

Drainage R/W 140' ℄

℄ Sta. 46+47.94 Const.
Concrete Manhole 125.00' Rt.
Connect to 13" V.C.P. ℄
Exist. 36" V.C.P. (N.N.E.)
Install 48"x329.42' R.L.R.C.P.
San. Sewer (S.W.) ℄
8" V.C.P. Stub (W.)
Remove Exist. Manhole ℄
36"x14' V.C.P. (S.S.W.)
See Sh. No. 16 & 17

℄ Sta. 46+27.98 Const.
Manhole (Type A) 115.00' Rt.
Connect to Exist 18" V.C.P. (N.N.E.)
Install 18"x18' V.C.P.
San. Sewer (W.)
See Sh. No. 16 & 17

Ground Line

Armour Tributary

Gypsum Creek

No. V.C.

-0.32%

-0.82%

-0.28%

℄ Proposed Tributary Channel

EQUATION: Sta. 21+30.56 Bk =
Sta. 39+93.16 Ahd.

CHANNEL CHANGE PROFILE
Scale: 1"=100' Horiz.
1"=10' Vert.

Note: All embankment required to construct the channel changes to the lines & Grade shown shall be Type B Compaction.

TYPICAL CHANNEL SECTION
RIP RAP
Sta. 48+65 to Sta. 50+50 Lt.
Sta. 49+50 to Sta. 51+54 Rt.

Note: See Sh. No. 21 for Riprap Details.

TYPICAL CHANNEL SECTION
ARMOUR TRIBUTARY
Sta. 10+00 to Sta. 20+00

TYPICAL CHANNEL SECTION
GYPSUM CREEK
Sta. 39+50± to Sta. 48+15 Lt.
Sta. 39+50± to Sta. 49+00 Rt.

*Transition from 4:1 to 2:1
Sta. 48+15 to Sta. 48+65 Lt.
Sta. 49+00 to Sta. 49+50 Rt.

Old Project No. DAKB57[illegible]04 New No. 472-76-245-80586-000-000-001

SHEET NO.	TOTAL SHEETS
5	39

℄ Sta. 47+18-81' Lt. Remove 1'-0"± Exist. Conc. Flume Extend to 45' Lt. (42 Sq. Yds. Conc. Ditch Lining) See Sh. No. 20

℄ Sta. 49+66 Remove Exist. Manhole 25' Rt. ℄ Exist. 18"x350' V.C.P.(N.E.) * ℄ Exist. 18"x425' V.C.P.(S.W.)* See Note this Sheet

Remove ℄ Reset 140'± Exist. Fence. Install Additional 20' New Fence.

℄ Sta 49+88 Remove Exist. Manhole 34.30' Rt. ℄ Exist. 36"x347' V.C.P.(N.E.) * ℄ Exist 36"x228' V.C.P. (S.W.) See Note this Sheet

℄ Sta. 52+09 Remove Exist. Manhole 25.07' Lt. ℄ Exist. 42"x193' R.C.P. (S.W.) See Note this Sheet

℄ Sta. 53+79 Abandon Exist. Manhole 80.23' Lt. ℄ Remove Exist. 18"x62' V.C.P.* San. Sewer (W.N.W.)

℄ Sta. 54+03 Remove Exist. Manhole 22.67' Lt. ℄ Exist. 42"x300' R.C.P. (S.W.) ℄ Exist. 18"x28' V.C.P.(W.N.W.) See Note this Sheet

℄ Sta. 54+13 Remove Exist. Manhole 4.33' Rt. ℄ Exist. 18"x300' V.C.P.(S.W.) See Note this Sheet

℄ Sta. 57+01 Abandon Exist. Manhole 18.53' Lt. ℄ Remove Exist. 42"x222' R.C.P.* San. Sewer (W.S.W.)

℄ Sta. 57+12 Abandon Exist. Manhole 4.85' Rt. ℄ Remove Exist. 18"x185' V.C.P.* San. Sewer (W.S.W.)

℄ P.O.T. Sta. 50+00
1. Conc. Nail ℄ Bottle Cap @ P.I. Channel ℄ & ℄ Harry St.
2. Nail ℄ Bottle Cap in 14" Elm 43.7' S.E.
3. Nail ℄ Bottle Cap in 28" Elm 77.4' S.W.
4. Center of San. Sewer M.H. 43.3' N.

℄ P.O.T. Sta. 53+80.60
1. ½" Rebar @ Channel Change ℄
2. Nail ℄ Bottle Cap in center San. Sewer M.H. 47.9' S.
3. Nail ℄ Bottle Cap N. side double 15" Hedge Tree 72.7' N.W.
4. Nail ℄ Bottle Cap S. side in 20" Cottonwood 58.8' E.

℄ P.O.T. Sta. 55+61.86
1. ½" Rebar @ Channel Change ℄
2. Nail ℄ Washer in center N. trunk 15" Cottonwood tree 37.2' N.E.
3. Nail ℄ Bottle Cap N. side 40" Dia. Cottonwood tree 48.5 S.E.

℄ P.O.T. Sta. 58+07.67
1. ½" Rebar @ Channel Change ℄
2. Nail ℄ Bottle Cap in 15" Elm 26.7 S.E.
3. Nail ℄ Bottle Cap in 4" Elm 37.1' E.
4. Nail ℄ Bottle Cap in Tele. Pole 102.6' N.W.

SCALE: 1"=50'

℄ Proposed Channel Change

℄ Sta. 58+94.42 Const. Conc. Manhole (Spec.) 90.01' Rt. Connect to Exist. 42" R.C.P. San. Sewer (W.S.W.) See Sht. No. 16, 17, & 18

℄ Sta. 58+75.07 Const. Conc. Manhole (Spec.) 95.00' Rt. Connect to Exist. 18" V.C.P. (W.S.W.) Install 42"x 12.99' P.L.R.C.P. San. Sewer (S) See Sh. No. 16, 17 & 18

℄ Sta. 55+80.00 Const. Conc. Manhole 95.00' Rt. Install 48"x 291.07' P.L.R.C.P. San. Sewer (S.W.) ℄ 8" V.C.P. Stub (W.N.W.) See Sh. No. 16 ℄ 17

℄ Sta. 54+27 to Sta. 54+87.95 Rt. Const. Concrete Encasement for Proposed 42" San. Sewer See Sheet No. 18.

℄ Sta. 49+80.00 Const. Conc. Manhole 95.00' Rt. Install 48"x 296' P.L.R.C.P. San. Sewer (S.W.) 8" V.C.P. Stub (W.N.W.) See Sh. No. 16 ℄ 17

℄ Sta. 52+80.00 Const. Conc. Manhole 95.00' Rt. Install 48"x 296' P.L.R.C.P. San. Sewer (S.W.) ℄ 8" V.C.P. Stub (W.) See Sh. No. 16 ℄ 17

℄ Sta. 46+27.98 Const. Manhole (Type A) 115.00' Rt. Connect to Exist 18" V.C.P. (N.N.E.) Install 18"x 18" V.C.P. San. Sewer (W.) See Sh. No. 16 ℄ 17

℄ Sta. 46+47.94 Const. Concrete Manhole 125.00' Rt. Connect to 18" V.C.P. ℄ Exist. 36" V.C.P. (N.N.E.) Install 48"x 329.46' P.L.R.C.P. San. Sewer (S.W.) ℄ 8" V.C.P. Stub (W.) Remove Exist. Manhole ℄ 36" V.C.P. (S.S.W.) See Sh. No. 16 ℄ 17

Sta. 44+32 Const. 5G'-70'-5G' Cont. Steel Beam Spans Skew 35°28'00" Pile Bent Type Abutments ℄ Pedestal Type Piers 18'-0" Roadway with 3'-0" Sidewalk Lt. ℄ Rt.

Drainage R/W = Exist. Kansas Turnpike R/W

Drainage R/W 140' ℄

Kansas Turnpike

Conc. Flume

Corr. Flume

Chain Link Fence

Shoofly Detour

Proposed Gypsum Creek Channel Change

PRC 1758.16 ℄ Sta. 46+46.16

CAUTION !!!

Temp. Esmt. ℄

Fill to El. 133.0 (Min.) ℄ Grade to Drain South

Exist. Drainage R/W

Temp. Esmt.

Fill to El. 133.0 ℄ Grade to Drain South

Harry St.

Gypsum Creek

Slope 0.30%

Exist. R/W 200' ℄

Exist. Drainage ℄ Sewer Esmt. (KTA)

Charles W. Harris and Jane C. Harris

Asphalt Paving

Gravel

Concrete Paving

Fence

Gate

Flood Light

Abandoned Yard Light

Wichita Development Co.

S.E. ¼, Sec. 30, T27S, R2E

N.E. ¼, Sec. 31, T27S, R2E

N.W. ¼, Sec. 31, T27S, R2E

S.W. ¼, Sec. 30, T27S, R2E

¼ Sec. Line

Governeour Rd.

Split Rail Fence

Exist. R/W 95' ℄

Grillot Addition

Water Line

Gas Line

Parking Sign

Exist. R/W 200' ℄

Temp. Esmt.

Exist. Ground Line

℄ Proposed Main Channel

Gypsum Creek

-0.28%

Profile Grade as shown on Plans

EL. CHANGE PROFILE
1"=100' Horiz.
1"=10' Vert.

TYPICAL CHANNEL SECTION
ARMOUR TRIBUTARY
Sta. 10+00 to Sta. 20+00

45'-0"
Varies 4:1 11'-6" 6'-0" 10'-0" 6'-0" 11'-6" 2'-0" Varies 4:1 10'-0" Varies 4:1
Slope ¼"/Ft.
3'-0"
Top of Levee Elev. 135.0

TYPICAL CHANNEL SECTION
GYPSUM CREEK

90'-0"
Varies 4:1 * 15'-0" 5'-0" 50'-0" 5'-0" 15'-0" Varies 4:1 * 10'-0" Varies 4:1
Slope ¼"/Ft.
Gypsum Creek
Profile Grade as shown on Plans
1:1
Top of Levee Elev. 135.0

* Transition from 4:1 to 2:1
Sta. 48+15 to Sta. 48+65 Lt.
Sta. 49+00 to Sta. 49+50 Rt.

* Transition from 2:1 to 4:1
Sta. 50+50 to Sta. 51+00 Lt.
Sta. 51+54 to Sta. 52+04 Rt.

Sta. 39+50± to Sta. 48+15 Lt. Sta. 51+00 to Sta. 55+35 Lt.
Sta. 39+50± to Sta. 49+00 Rt. Sta. 52+10 to Sta. 55+35 Rt.

GENERAL NOTES

1. CONTRACTOR SHALL REFER TO "CONSTRUCTION SEQUENCING" PRIOR TO BEGINNING ANY SANITARY SEWER CONSTRUCTION. SEE SHEET NOS. 3A AND 18.
2. WHERE THE CONTRACTOR IS TO PLACE FILL OVER THE EXISTENT 15" VCP SANITARY SEWER ALONG THE ARMOUR TRIBUTARY (2 LOCATIONS) HE SHALL CAREFULLY PLACE THE MATERIAL WITHOUT DAMAGING THE PIPE. THE PIPE WILL BE TELEVISED PRIOR TO ACCEPTANCE AND ANY PIPELINE DAMAGE WILL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
3. THE PROPERTY OWNED BY CHARLES W. & JANE C. HARRIS SHALL BE FILLED TO MINIMUM ELEV. 133.0. ALL EMBANKMENT PLACED ON SAID PROPERTY SHALL BE COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS FOR TYPE B COMPACTION AS OUTLINED IN SECTION 210 OF THE KANSAS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1973 EDITION".
4. THE CONTRACTOR SHALL REMOVE THE EXISTING BRIDGE (117'± x 30' CONCRETE SLAB ON TIMBER PILING). ALL MATERIAL SHALL BE DISPOSED OF AS DIRECTED BY THE ENGINEER.
5. * EXISTING SANITARY SEWER PIPE, NOTED THUS [■■■] MAY BE PLUGGED AT EACH END AND BLOWN FULL WITH SAND AT THE CONTRACTOR'S OPTION.
6. ALL P.L.R.C.P. SHALL BE CLASS IV.
7. THE QUANTITY SHOWN ON SHEET NO. 23 FOR "REMOVAL OF LARGE TREES" IS BASED ON A FIELD SURVEY FOR THIS ITEM 9/1/79. THE EXACT LOCATION AND NUMBER OF TREES TO BE REMOVED SHALL BE AS DETERMINED BY THE ENGINEER AT THE TIME OF CONSTRUCTION AND SHALL BE LIMITED TO THOSE TREES WHICH, WITHOUT QUESTION, CONSTITUTE AN IMPEDIMENT TO CONSTRUCTION OF THE IMPROVEMENT TO THE LINES AND GRADES DETAILED. REMOVAL SHALL NOT BE CONSTRUED TO NECESSARILY MEAN ALL VEGETATION WITHIN THE PROJECT EASEMENTS AND RIGHTS-OF-WAY.
8. THE BARBED WIRE FENCE DESIGNATED TO BE RESET RT. STA. 40+27 TO STA. 42+40.13 SHALL BE RESET AT ITS PRESENT LOCATION USING EXISTING MATERIALS. THE TERMINAL POSTS SHALL BE "CORNER" TYPE POSTS SUFFICIENTLY BRACED TO PERMIT THE STRANDS TO BE TIGHTENED. PAYMENT FOR THIS WORK WILL BE INCLUDED IN THE LUMP SUM PRICE BID FOR CLEARING AND GRUBBING.

EUGENE B. SCHMUCK LICENSED 5778 KANSAS PROFESSIONAL ENGINEER

ARTHUR G. LATHAM LICENSED 637 KANSAS PROFESSIONAL ENGINEER

APPROVED
CITY ENGINEER _____ DATE _____

CITY OF WICHITA, KANSAS

CONTOUR MAP
GYPSUM CREEK BRIDGE

OLD PROJECT NO. DAKB 577094
NEW NO. 472-76-245-80596-000-000-001

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

DESIGNED BY		CHECKED BY	
DRAWN BY		DATE	JOB NO.