BEGIN NORTHWEST RETURN - CR1 DESCRIPTION

Point 201 N:1,715,375.16 E:1,659,468.16 Sta. 10+00.00

Course from 201 to 202 N 89°04' 40.35" E Dist 58.91

Point 202 N:1,715,376.10 E:1,659,527.07 Sta. 10+58.91

Course from 202 to 203 N 83° 35' 39.39" E Dist 35.62

Point 203 N:1,715,380.08 E:1,659,562.47 Sta. 10+94.53

Curve Data

Curve CBR1-1
P.I. Station 11+55.73 N:1,715,386.91 E:1,659,623.28
Delta = 84° 23' 11.08" (LT)
Degree = 84° 52' 57.49"
Tangent = 61.19
Length = 99.42
Radius = 67.50
External = 23.61
Long Chord = 90.67
Mid. Ord. = 17.49
P.C. Station 10+94.53 N:1,715,380.08 E:1,659,562.47
P.T. Station 11+93.95 N:1,715,448.09 E:1,659,622.43
C.C. = N:1,715,447.16 E:1,659,554.94
Back = N 83° 35' 39.39" E
Ahead = N 0° 47' 31.68" W
Chord Bear = N 41° 24' 03.86" E

Point 204 N:1,715,448.09 E:1,659,622.43 Sta. 11+93.95

END NORTHWEST RETURN - CR1 DESCRIPTION

BEGIN NORTHEAST RETURN - CR2 DESCRIPTION

Point 301 N:1,715,447.79 E:1,659,688.44 Sta. 10+00.00

Curve Data

Curve CBR2-1
P.I. Station 10+69.34 N:1,715,378.47 E:1,659,687.11
Delta = 91° 32' 29.05" (LT)
Degree = 84° 52' 57.49"
Tangent = 69.34
Length = 107.84
Radius = 67.50
External = 29.27
Long Chord = 96.73
Mid. Ord. = 20.42
P.C. Station 10+00.00 N:1,715,447.79 E:1,659,688.44
P.T. Station 11+07.84 N:1,715,379.00 E:1,659,756.45
C.C. = N:1,715,446.50 E:1,659,755.93
Back = S 1° 06' 04.13" W
Ahead = N 89° 33' 35.08" E
Chord Bear = S 44° 40' 10.40" E

Point 302 N:1,715,379.00 E:1,659,756.45 Sta. 11+07.84

Course from 302 to 303 N 89° 33' 35.08" E Dist 82.41

Point 303 N:1,715,379.63 E:1,659,838.85 Sta. 11+90.25

END NORTHEAST RETURN - CR2 DESCRIPTION

BEGIN ISLAND DESCRIPTION

Point 701 N:1,715,310.44 E:1,659,580.15 Sta. 10+00.00

Curve Data

Curve ISLAND1-1
P.I. Station 10+31.15 N:1,715,292.98 E:1,659,605.95
Delta = 24° 00' 33.04" (RT)
Degree = 39° 06' 35.09"
Tangent = 31.15
Length = 61.39
Radius = 146.50
External = 3.28
Long Chord = 60.94
Mid. Ord. = 3.20
P.C. Station 10+00.00 N:1,715,310.44 E:1,659,580.15
P.T. Station 10+61.39 N:1,715,266.54 E:1,659,622.41
C.C. = N:1,715,189.11 E:1,659,498.04
Back = S 55° 54' 44.48" E
Ahead = S 31° 54' 11.45" E
Chord Bear = S 43° 54' 27.97" E

Point 702 N:1,715,266.54 E:1,659,622.41 Sta. 10+61.39

Curve Data

Curve ISLAND1-2
P.I. Station 10+77.39 N:1,715,252.95 E:1,659,630.87
Delta = 146° 55' 52.53" (LT)
Degree = 1206° 13' 36.97"
Tangent = 16.00
Length = 12.18
Radius = 4.75
External = 11.94
Long Chord = 9.11
Mid. Ord. = 3.40
P.C. Station 10+61.39 N:1,715,266.54 E:1,659,622.41
P.T. Station 10+73.57 N:1,715,268.95 E:1,659,631.19
C.C. = N:1,715,269.05 E:1,659,626.45
Back = S 31° 54' 11.45" E
Ahead = N 01° 09' 56.02" E
Chord Bear = N 74° 37' 52.29" E

Point 703 N:1,715,268.95 E:1,659,631.19 Sta. 10+73.57

Course from 703 to 704 N 01° 09' 56.02" E Dist 44.81

Point 704 N:1,715,313.75 E:1,659,632.11 Sta. 11+18.38

Curve Data

Curve ISLAND1-3
P.I. Station 11+25.52 N:1,715,320.89 E:1,659,632.25
Delta = 93° 12' 28.26" (LT)
Degree = 848° 49' 34.91"
Tangent = 7.14
Length = 10.98
Radius = 6.75
External = 3.07
Long Chord = 9.81
Mid. Ord. = 2.11
P.C. Station 11+18.38 N:1,715,313.75 E:1,659,632.11
P.T. Station 11+29.36 N:1,715,320.64 E:1,659,625.12
C.C. = N:1,715,313.89 E:1,659,625.36
Back = N 01° 09' 56.02" E
Ahead = S 87° 57' 27.76" W
Chord Bear = N 45° 26' 18.11" W

Point 705 N:1,715,320.64 E:1,659,625.12 Sta. 11+29.36

Course from 705 to 706 S 87° 57' 27.76" W Dist 42.50

Point 706 N:1,715,319.12 E:1,659,582.64 Sta. 11+71.87

Curve Data

Curve ISLAND1-4
P.I. Station 11+86.43 N:1,715,318.60 E:1,659,568.09
Delta = 143° 52' 12.24" (LT)
Degree = 1206° 13' 36.97"
Tangent = 14.56
Length = 11.93
Radius = 4.75
External = 10.57
Long Chord = 9.03
Mid. Ord. = 3.28
P.C. Station 11+71.87 N:1,715,319.12 E:1,659,582.64
P.T. Station 11+83.79 N:1,715,310.44 E:1,659,580.15
C.C. = N:1,715,314.38 E:1,659,582.81
Back = S 87° 57' 27.76" W
Ahead = S 55° 54' 44.48" E
Chord Bear = S 16° 01' 21.64" W

END ISLAND DESCRIPTION

BEGIN SOUTWEST RETURN - CR3 DESCRIPTION

Point 401 N:1,715,309.17 E:1,659,469.23 Sta. 10+00.00

Course from 401 to 402 S 85° 26' 18.69" E Dist 35.79

Point 402 N:1,715,306.32 E:1,659,504.90 Sta. 10+35.79

Curve Data

Curve CBR3-1
P.I. Station 11+38.93 N:1,715,298.12 E:1,659,607.71
Delta = 81° 07' 13.75" (RT)
Degree = 47° 32' 54.11"
Tangent = 103.14
Length = 170.61
Radius = 120.50
External = 38.11
Long Chord = 156.71
Mid. Ord. = 28.95
P.C. Station 10+35.79 N:1,715,306.32 E:1,659,504.90
P.T. Station 12+06.40 N:1,715,195.27 E:1,659,615.48
C.C. = N:1,715,186.20 E:1,659,495.32
Back = S 85° 26' 18.69" E
Ahead = S 04°d 19' 04.94" E
Chord Bear = S 44° 52' 41.81" E

Point 403 N:1,715,195.27 E:1,659,615.48 Sta. 12+06.40

Course from 403 to 404 S 04° 19' 04.94" E Dist 33.65

Point 404 N:1,715,161.71 E:1,659,618.01 Sta. 12+40.05

END SOUTHWEST RETURN - CR3 DESCRIPTION

BEGIN SOUTEAST RETURN - CR4 DESCRIPTION

Point 601 N:1,715,160.09 E:1,659,697.99 Sta. 10+00.00

Course from 601 to 602 N 01° 09' 56.02" E Dist 50.29

Point 602 N:1,715,210.36 E:1,659,699.02 Sta. 10+50.29

Course from 602 to 603 N 06° 38' 56.98" E Dist 48.54

Point 603 N:1,715,258.57 E:1,659,704.64 Sta. 10+98.82

Curve Data

Curve CBR4-1
P.I. Station 11+52.93 N:1,715,312.31 E:1,659,710.90
Delta = 77° 25' 37.14" (RT)
Degree = 84° 52' 57.49"
Tangent = 54.10
Length = 91.22
Radius = 67.50
External = 19.01
Long Chord = 84.43
Mid. Ord. = 14.83
P.C. Station 10+98.82 N:1,715,258.57 E:1,659,704.64
P.T. Station 11+90.04 N:1,715,317.90 E:1,659,764.72
C.C. = N:1,715,250.76 E:1,659,771.68
Back = N 06° 38' 56.98" E
Ahead = N 87°d 04' 34.12" E
Chord Bear = N 45° 21' 45.55" E

Point 604 N:1,715,317.90 E:1,659,764.72 Sta. 11+90.04

Course from 604 to 605 N 84° 04' 34.12" E Dist 74.95

Point 605 N:1,715,325.63 E:1,659,839.27 Sta. 12+64.99

END SOUTHEAST RETURN - CR4 DESCRIPTION

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CONSULTANTS:

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INTERSECTION IMPROVEMENT
WICHITA, KANSAS

CITY OF WICHITA

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: 87 N-0616-01
SCALE: N/A
DATE: 10/9/2017
DESIGNED BY: TAU
DRAWN BY: TAU
CHECKED BY: MDB

SHEET TITLE:

CURB RETURN GEOMETRIC DATA

SHEET NO.

23

SHEET 23 OF 166

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10/9/2017 - 12:55:28 PM c:\transystems\ow_local\transyscorp-pw1\taummel\d0258264\C-CRD-M01-402.DGN

IF THIS DRAWING IS LESS THAN 22" X 36" IT IS A REDUCED SIZE DRAWING