TEXAS DEPARTMENT OF TRANSPORTATION

DALLAS DISTRICT
WILLIAM L. HALE, P.E., DISTRICT ENGINEER

STATE HIGHWAY 114
DESIGN SCHEMATIC
FROM FM 156 TO IH 35W
DENTON COUNTY
PROJECT LENGTH: 2.888 MI.

CONTROL : 0353–02–062
PROJECT LIMITS: FROM 0.45 Mi. WEST OF FM 156
TO 0.21 Mi. EAST OF IH35W
STA. 975+00.00 TO STA. 978+00.00
FUNCTIONAL CLASS: RURAL PRINCIPAL ARTERIAL
STA. 978+00.00 TO STA. 1127+50.00
FUNCTIONAL CLASS: URBAN PRINCIPAL ARTERIAL
DESIGN SPEED: 70 mph MAINLANES
DESIGN SPEED: 40 mph FRONTAGE ROADS
DESIGN SPEED: 50 mph RAMPS
ROLL 1 OF 2

SCALE: 1″=100′ H, 1″=10′ V

JULY, 2006

Halff Associates
ENGINEERS . ARCHITECTS . SCIENTISTS . PLANNERS . SURVEYORS

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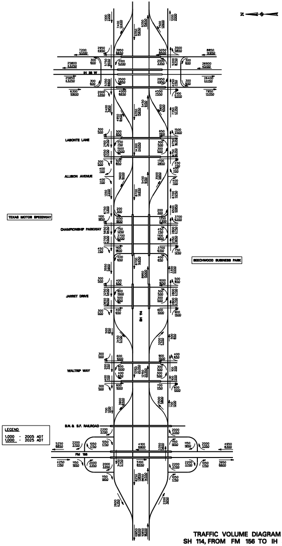
LEGEND

— - - —	EXISTING R.OW.
— - - —	PROPOSED R.OW.
→	DIRECTION OF TRAFFIC
—·—·—	EXISTING PROPERTY LINE
——	EXISTING LOT LINE
— — —	FUTURE LOT LINE
▨	ROW AQUISITION
— - —	GRADING LIMITS
— - —	SURVEY LINE
— - —	CITY LIMITS
— - —	100 FLOODPLAIN LIMITS
548	100 YR FLOOD ELEVATION
—— 12" W ——	EXISTING WATER LINE
—— GAS ——	EXISTING GAS LINE
— — 8" SS — —	EXISTING SANITARY SEWER
═══	EXISTING STORM SEWER
—— FIBER OPTIC ——	EXISTING FIBER OPTICS
•	EXISTING POWER POLE
○MH	EXISTING SANITARY SEWER MANHOLE
- - - -	EXISTING CONTOURS
	EXISTING PAVEMENT EDGES
— — —	EXISTING UTILITY EASEMENTS
— - —	PROPOSED SH 114 CENTERLINE
— — —	PROPOSED DRAINAGE EASEMENT
▬	PROPOSED PAVEMENT
—‖—‖—	PROPOSED CONTROL OF ACCESS
━━	PROPOSED RETAINING WALL
═══	PROPOSED STORM SEWER


N
IH 35 W
LABONTE LANE
ALLISON AVENUE
TEXAS MOTOR SPEEDWAY
CHAMPIONSHIP PARKWAY
BEECHWOOD BUSINESS PARK
JARRET DRIVE
SH 114
WALTRIP WAY
B.N. & S.F. RAILROAD
FM 156
LEGEND
1,000 - 2005 ADT
1,000 - 2025 ADT

TRAFFIC VOLUME DIAGRAM
SH 114, FROM FM 156 TO IH 35W

BASED ON DATA OBTAINED FROM
TRANSPORTATION PLANNING AND PROGRAMMING
TXDOT, AUSTIN, TEXAS

TRAFFIC DIAGRAM

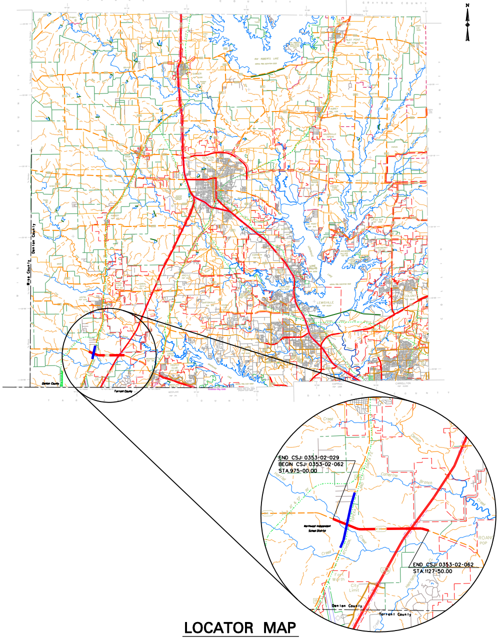
N.T.S.

1.) THE FLOODPLAIN BOUNDARY LIMITS WERE OBTAINED FROM FIRM COMMUNITY–PANEL NUMBERS:

48121C0475 F, MARCH 30, 1998
48121C0490 F, MARCH 30, 1998
48121C0495 F, MARCH 30, 1998

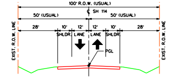
2.) DURING CONSTRUCTION AND AFTER PROJECT COMPLETION, BEST MANAGEMENT PRACTICES WILL BE FOLLOWED IN ACCORDANCE WITH TPDES GENERAL PERMIT TXR150000 DATED 3/5/03.

NOTES


N
Denton County
Tarrant County
Wise County
LEWISVILLE
END CSJ: 0353-02-029
BEGIN CSJ: 0353-02-062
STA.975+00.00
Northwest Independent School District
END CSJ: 0353-02-062
STA.1127+50.00
Denton County
Tarrant County

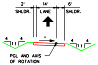
LOCATOR MAP

N.T.S.


100' R.O.W. (USUAL)
℄ SH 114
50' (USUAL)
50' (USUAL)
28'
10'
12'
12'
10'
28'
SHLDR.
LANE
LANE
SHLDR.
PGL
EXIST. R.O.W. LINE
EXIST. R.O.W. LINE

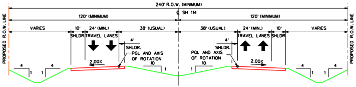
STA. 734+00.00 TO STA. 1127+00.00

EXISTING TYPICAL SECTION S.H. 114


2'
14'
6'
SHLDR.
LANE
SHLDR.
4
1
*
PGL AND AXIS OF ROTATION

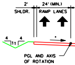
TYPICAL 1 LANE RAMP

* SUPERELEVATION AS NOTED ON PLAN


240' R.O.W. (MINIMUM)
℄ SH 114
120' (MINIMUM)
120' (MINIMUM)
VARIES
10'
24' (MIN.)
38' (USUAL)
38' (USUAL)
24' (MIN.)
10'
VARIES
SHLDR.
TRAVEL LANES
TRAVEL LANES
SHLDR.
4'
SHLDR.
PGL AND AXIS OF ROTATION
2.00%
10
1
PROPOSED R.O.W. LINE
PROPOSED R.O.W. LINE

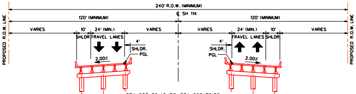
STA. 975+00.00 TO STA. 987+30.42

TYPICAL ROAD SECTION S.H. 114


2'
24' (MIN.)
SHLDR.
RAMP LANES
4
1
*
PGL AND AXIS OF ROTATION

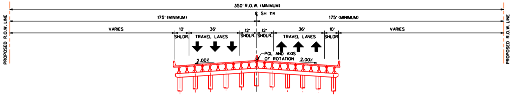
TYPICAL 2 LANE

* SUPERELEVATION AS NOTED


240' R.O.W. (MINIMUM)
℄ SH 114
120' (MINIMUM)
120' (MINIMUM)
VARIES
10'
24' (MIN.)
VARIES
VARIES
24' (MIN.)
10'
VARIES
SHLDR.
TRAVEL LANES
TRAVEL LANES
SHLDR.
4'
SHLDR.
PGL
2.00%
PROPOSED R.O.W. LINE
PROPOSED R.O.W. LINE

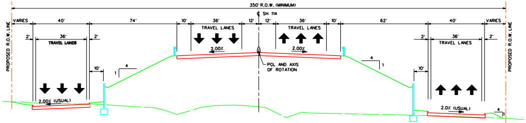
STA. 987+30.42 TO STA. 990+79.82

TYPICAL BRIDGE SECTION S.H. 114


350' R.O.W. (MINIMUM)
℄ SH 114
175' (MINIMUM)
175' (MINIMUM)
VARIES
10'
36'
12'
12'
36'
10'
VARIES
SHLDR.
TRAVEL LANES
SHLDR.
SHLDR.
TRAVEL LANES
SHLDR.
PGL AND AXIS OF ROTATION
2.00%
PROPOSED R.O.W. LINE
PROPOSED R.O.W. LINE

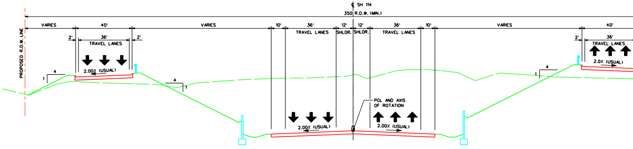
STA. 1051+80.73 TO STA. 1053+60.73
STA. 1069+61.40 TO STA. 1072+29.40

TYPICAL BRIDGE SECTION S.H. 114


350' R.O.W. (MINIMUM)
℄ SH 114
VARIES
40'
74'
10'
36'
12'
12'
36'
10'
62'
40'
VARIES
2'
36'
2'
TRAVEL LANES
TRAVEL LANES
TRAVEL LANES
TRAVEL LANES
10'
4
1
2.00%
PGL AND AXIS OF ROTATION
2.00% (USUAL)
2.0% (USUAL)
PROPOSED R.O.W. LINE
PROPOSED R.O.W. LINE

STA. 1047+50.00 TO STA. 1076+00.00

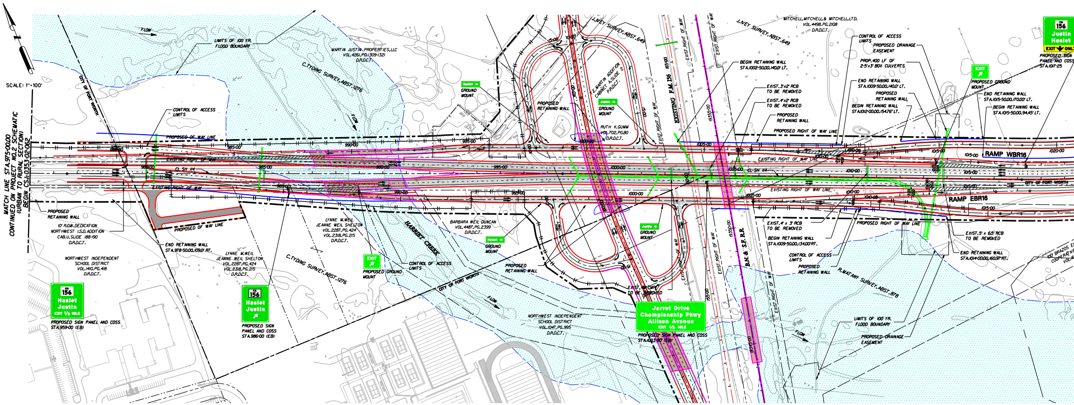
TYPICAL ROAD SECTION S.H. 114

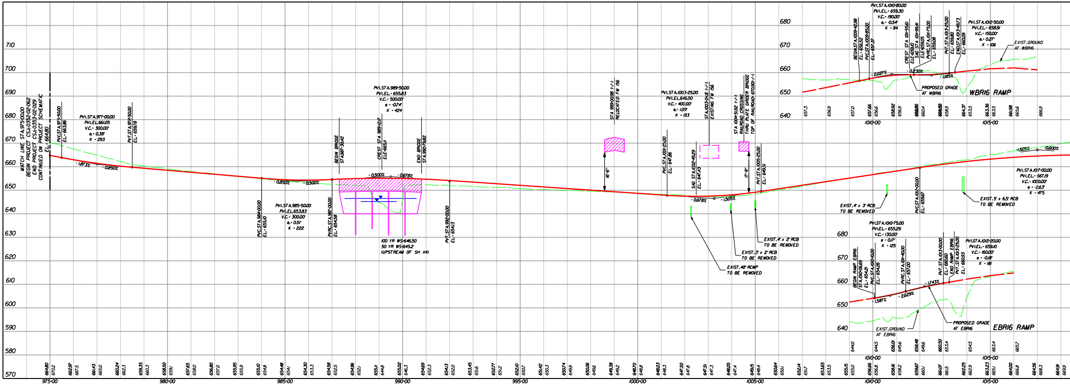

℄ SH 114
350' R.O.W. (MIN.)
VARIES
40'
VARIES
10'
36'
12'
12'
36'
10'
VARIES
40'
2'
36'
2'
TRAVEL LANES
SHLDR.
SHLDR.
TRAVEL LANES
2.00% (USUAL)
2.0% (USUAL)
4
1
PGL AND AXIS OF ROTATION
PROPOSED R.O.W. LINE

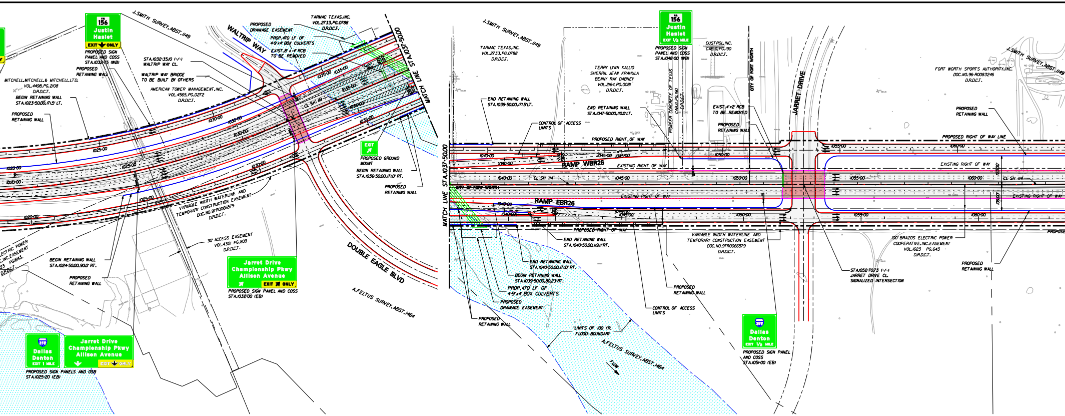
STA. 1095+00.00 TO STA. 1125+00.00

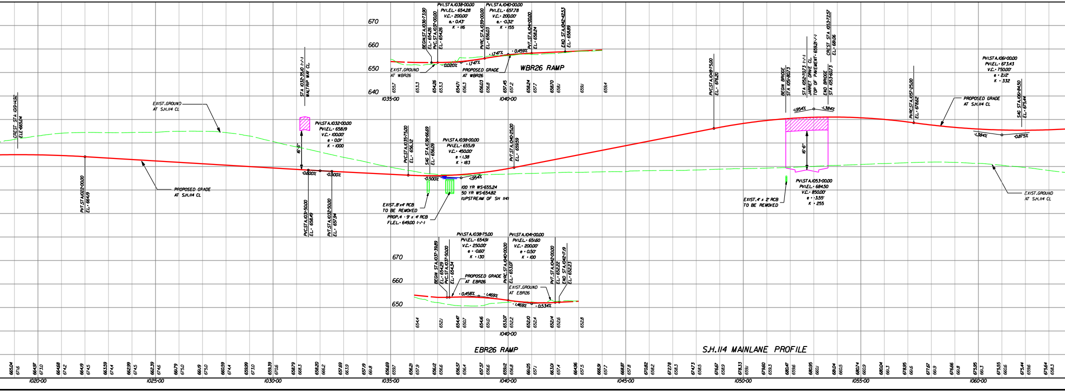
TYPICAL ROAD SECTION S.H. 114

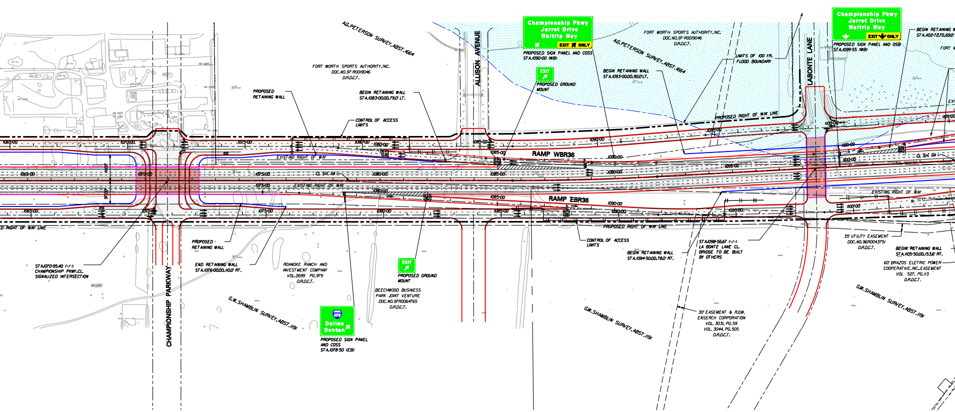
6'
SHLDR.
4
4
RAMP
ON PLAN
VARIES
2'
4
1
PROPOSED R.O.W. LINE

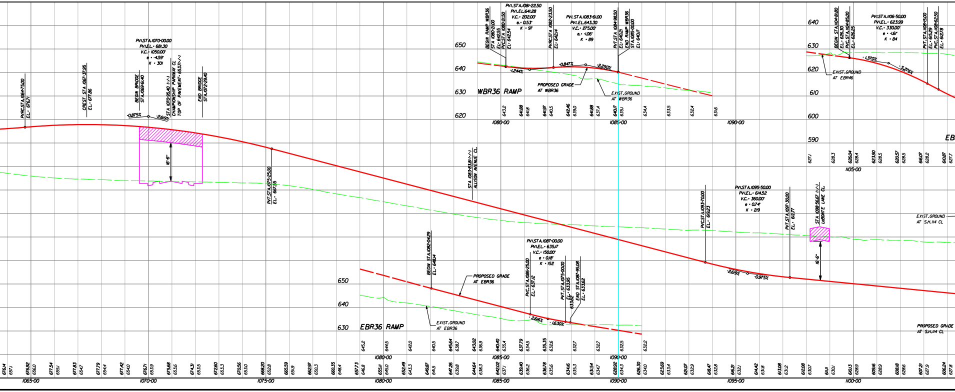

SCALE: 1"=100'
MATCH LINE STA.975+00.00
CONTINUED ON PROJECT NO.2 SCHEMATIC
(URBAN TO RURAL SECTION)
BEGIN CSJ:0353-02-062
FLOW
LIMITS OF 100 YR. FLOOD BOUNDARY
CITY OF FORT WORTH
MARTIN JUSTIN PROPERTIES,LLC
VOL.4261,PG.1309-1321
D.R.D.C.T.
C.TYDING SURVEY,ABST.1276
CONTROL OF ACCESS LIMITS
PROPOSED OF WAY LINE
EXISTING RIGHT OF WAY
CL SH 114
980+00
985+00
990+00
995+00
1000+00
1005+00
1010+00
1015+00
1020+00
PROPOSED RETAINING WALL
10' R.O.W. DEDICATION
NORTHWEST I.S.D. ADDITION
CAB.U,SLIDE 188-190
D.R.D.C.T.
END RETAINING WALL
STA.978+50.00,109.0' RT.
NORTHWEST INDEPENDENT SCHOOL DISTRICT
VOL.1410,PG.418
D.R.D.C.T.
LYNNE M.WEIL
JEANNE WEIL SHELTON
VOL.2287,PG.424
VOL.2318,PG.215
D.R.D.C.T.
F.M. 156
Haslet
Justin
EXIT 1/2 MILE
PROPOSED SIGN PANEL AND COSS
STA.959+00 (EB)
F.M. 156
Haslet
Justin
PROPOSED SIGN PANEL AND COSS
STA.986+00 (EB)
EXIT
PROPOSED GROUND MOUNT
HARRIET CREEK
BARBARA WEIL DUNCAN
VOL.4487,PG.2399
D.R.D.C.T.
Haslet
GROUND MOUNT
Justin
GROUND MOUNT
J.IVEY SURVEY,ABST.649
15+00
10+00
165+00
T.E.MARTIN ADDITION
CABINET A,SLIDE 2
P.R.D.C.T.
PROPOSED RETAINING WALL
RUTH K.GUMM
VOL.702,PG.80
D.R.D.C.T.
EXIST.RIGHT OF WAY
EXISTING F.M. 156
19355+00
19350+00
19345+00
155+00
B.N. & S.F. R.R.
EXIST.48" CMP
TO BE REMOVED
NORTHWEST INDEPENDENT SCHOOL DISTRICT
VOL.1047,PG.995
D.R.D.C.T.
Jarret Drive
Championship Pkwy
Allison Avenue
EXIT 1/2 MILE
PROPOSED SIGN PANEL AND COSS
STA.1003+80 (EB)
MITCHELL,MITCHELL,& MITCHELL,LTD.
VOL.4498,PG.2108
D.R.D.C.T.
BEGIN RETAINING WALL
STA.1002+50.00,140.0' LT.
EXIST.3'x2' RCB
TO BE REMOVED
EXIST.4'x2' RCB
TO BE REMOVED
PROPOSED RETAINING WALL
PROPOSED RIGHT OF WAY LINE
CONTROL OF ACCESS LIMITS
PROPOSED DRAINAGE EASEMENT
PROP.400 LF OF
2-5'x3' BOX CULVERTS
END RETAINING WALL
STA.1009+50.00,140.0' LT.
PROPOSED RETAINING WALL
BEGIN RETAINING WALL
STA.1012+00.00,154.76' LT.
EXIT
PROPOSED GROUND MOUNT
END RETAINING WALL
STA.1015+50.00,170.00' LT.
BEGIN RETAINING WALL
STA.1015+50.00,94.45' LT.
F.M. 156
Justin
Haslet
EXIT ONLY
PROPOSED SIGN PANEL AND COSS
STA.1017+25
RAMP WBR16
EXISTING RIGHT OF WAY LINE
CL SH 114
CITY OF FORT WORTH
RAMP EBR16
EXIST.4' x 3' RCB
TO BE REMOVED
BEGIN RETAINING WALL
STA.1009+50.00,134.00' RT.
CONTROL OF ACCESS LIMITS
PROPOSED RETAINING WALL
PROPOSED RIGHT OF WAY LINE
EXIST.5' x 6.5' RCB
TO BE REMOVED
END RETAINING WALL
STA.1014+00.00,160.97' RT.
R.MATANY SURVEY,ABST.878
LIMITS OF 100 YR. FLOOD BOUNDARY
PROPOSED DRAINAGE EASEMENT
100' BRAZOS E
COOPERATIVE
VOL.6

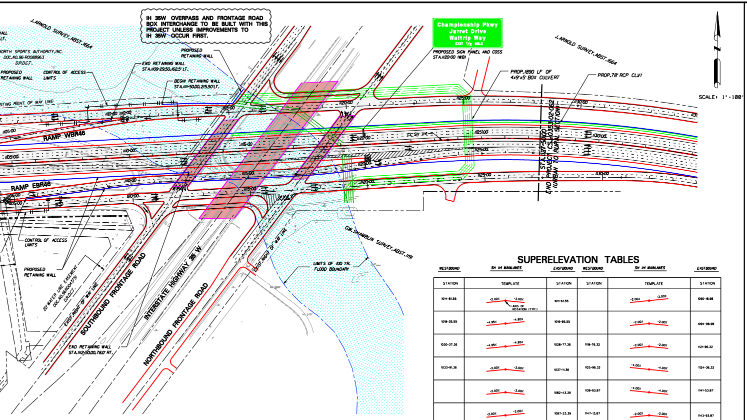

710
700
690
680
670
660
650
640
630
620
610
600
590
580
570
MATCH LINE STA.975+00.00
BEGIN PROJECT CSJ:0352-02-062
END PROJECT CSJ:0353-02-029
CONTINUED ON PROJECT SCHEMATIC
EL.=664.80
PVC.STA.975+50.00
EL.=663.86
PVI.STA.977+00.00
PVI.EL.661.05
V.C.=300.00'
e.=0.38'
K=293
PVT.STA.978+50.00
EL.=659.78
-1.873%
-0.850%
PVC.STA.984+00.00
EL.=655.10
PVI.STA.985+50.00
PVI.EL.653.83
V.C.=300.00'
e.=0.51'
K=222
-0.850%
+0.500%
PVRC.STA.987+00.00
EL.=654.58
BEGIN BRIDGE
STA.987+30.42
PVI.STA.989+50.00
PVI.EL.=655.83
V.C.=500.00'
e=-0.74'
K=424
CREST STA.989+12.17
ELE=665.11
+0.500%
-0.678%
END BRIDGE
STA.990+79.82
100 YR WS=646.50
50 YR WS=645.2
(UPSTREAM OF SH 114)
PVT.STA.992+00.00
EL.=654.13
STA 999+00.98 (+/-)
RELOCATED FM 156
16'-6"
PVC.STA.1001+25.00
EL.=647.86
PVI.STA.1003+25.00
PVI.EL.646.50
V.C.=400.00'
e.=1.09'
K=183
SAG STA.1002+49.29
EL.=647.43
STA.1003+04.18 (+/-)
EXISTING FM 156
-0.678%
+1.505%
STA 1004+51.92 (+/-)
RAILROAD CROSSING
THRU PLATE GIRDER BRIDGE
TOP OF RAILROAD=670.90(+/-)
17'-9"
PVT.STA.1005+25.00
EL.=649.51
EXIST.48" RCMP
TO BE REMOVED
EXIST.3' x 2' RCB
TO BE REMOVED
EXIST.4' x 2' RCB
TO BE REMOVED
EXIST.4' x 3' RCB
TO BE REMOVED
PVC.STA.1012+00.00
EL.=659.67
EXIST.5' x 6.5' RCB
TO BE REMOVED
PVI.STA.1017+00.00
PVI.EL.=667.19
V.C.=1000.00'
e=-2.63'
K=475
+1.505%
-0.600%
680
670
660
650
640
BEGIN.STA.1009+42.98
EL.=656.52
PVC.STA.1009+85.00
EL.=657.37
PVI.STA.1010+80.00
PVI.EL.=659.30
V.C.=190.00'
e.=-0.54'
K=84
+2.027%
CREST STA 1011+55.61
ELE=659.10
SAG STA 1011+99.41
ELE=659.05
PVRC.STA.1011+75.00
EL.=659.08
-0.230%
+1.185%
PVT.STA.1013+25.00
EL.=659.80
END.STA.1013+49.73
EL.=660.09
PVI.STA.1012+50.00
PVI.EL.=658.91
V.C.=150.00'
e.=0.27'
K=106
EXIST.GROUND
AT WBR16
PROPOSED GRADE
AT WBR16
WBR16 RAMP
657.3
656.9
657.0
657.66
656.6
658.92
656.9
658.86
660.4
658.83
658.9
664.37
653.5
663.36
663.5
661.98
665.6
666.9
1010+00
1015+00
680
670
660
650
640
PVI.STA.1010+75.00
PVI.EL.=655.29
V.C.=130.00'
e=0.17'
K=125
BEGIN RAMP EBR16
STA.1010+06.69
EL.=654.21
PVC.STA.1010+10.00
EL.=654.26
PVRC.STA.1011+40.00
EL.=657.00
+1.587%
+2.629%
+1.743%
PVT.STA.1013+00.00
EL.=660.60
END RAMP EBR16
PVT.STA.1013+25.00
EL.=660.93
PVI.STA.1012+20.00
PVI.EL.=659.10
V.C.=160.00'
e=-0.18'
K=181
EXIST.GROUND
AT EBR16
PROPOSED GRADE
AT EBR16
EBR16 RAMP
644.0
644.5
656.01
645.6
658.48
649.6
660.50
653.4
654.5
663.4
665.7
1010+00
1015+00
664.80
670.2
662.97
667.5
661.43
665.0
660.24
662.3
659.35
660.3
658.50
659.1
657.65
658.0
656.80
657.0
655.95
655.9
655.10
654.8
654.48
654.1
654.30
653.3
654.58
652.5
654.96
652.1
655.11
644.8
655.02
646.3
654.69
652.3
654.13
652.0
653.45
651.6
652.77
651.2
652.10
650.7
651.42
650.3
650.74
649.9
650.06
649.6
649.38
649.2
648.70
648.8
648.03
648.3
647.50
647.8
647.51
647.3
648.05
647.4
649.15
648.4
650.64
650.1
652.14
651.7
653.65
653.5
655.15
655.0
656.66
656.8
658.16
658.2
659.67
660.1
661.07
661.5
662.25
662.9
663.23
665.1
664.00
666.8
664.56
668.3
664.91
669.9
975+00
980+00
985+00
990+00
995+00
1000+00
1005+00
1010+00
1015+00


J.SMITH SURVEY,ABST.1149
156 Justin Haslet EXIT ONLY
PROPOSED SIGN PANEL AND COSS STA.1032+75 (WB)
PROPOSED RETAINING WALL
MITCHELL,MITCHELL,& MITCHELL,LTD. VOL.4498,PG.2108 D.R.D.C.T.
BEGIN RETAINING WALL STA.1023+50.00,171.5' LT.
PROPOSED RETAINING WALL
WALTRIP WAY
PROPOSED DRAINAGE EASEMENT
PROP.470 LF OF 4-9'x4' BOX CULVERTS
EXIST.8' x 4' RCB TO BE REMOVED
TARMAC TEXAS,INC. VOL.2733,PG.0788 D.R.D.C.T.
STA.1032+35.10 (+/-) WALTRIP WAY CL
WALTRIP WAY BRIDGE TO BE BUILT BY OTHERS
AMERICAN TOWER MANAGEMENT,INC. VOL.4565,PG.0272 D.R.D.C.T.
CL SH 114
MATCH LINE STA.1037+50.00
EXIT
PROPOSED GROUND MOUNT
BEGIN RETAINING WALL STA.1036+50.00,171.0' RT.
PROPOSED RETAINING WALL
VARIABLE WIDTH WATERLINE AND TEMPORARY CONSTRUCTION EASEMENT DOC.NO.97R0066579 D.R.D.C.T.
30' ACCESS EASEMENT VOL.4321 PG.809 D.R.D.C.T.
DOUBLE EAGLE BLVD
BEGIN RETAINING WALL STA.1024+50.00,90.0' RT.
PROPOSED RETAINING WALL
ELECTRIC POWER INC.EASEMENT PG.643 D.R.D.C.T.
Jarret Drive Championship Pkwy Allison Avenue EXIT ONLY
PROPOSED SIGN PANEL AND COSS STA.1032+00 (EB)
A.FELTUS SURVEY,ABST.1464
35W Dallas Denton EXIT 1 MILE
Jarret Drive Championship Pkwy Allison Avenue EXIT ONLY
PROPOSED SIGN PANELS AND OSB STA.1025+20 (EB)
1020+00
1025+00
1030+00
1035+00
J.SMITH SURVEY,ABST.1149
TARMAC TEXAS,INC. VOL.2733,PG.0788 D.R.D.C.T.
156 Justin Haslet EXIT 1/2 MILE
PROPOSED SIGN PANEL AND COSS STA.1048+00 (WB)
DUSTROL,INC. CAB.G,PG.190 D.R.D.C.T.
TERRY LYNN KALLIO SHERRIL JEAN KRAHULA BENNY RAY DABNEY VOL.2164,PG.0081 D.R.D.C.T.
PIONEER CONCRETE OF TEXAS CAB.G,PG.190 D.R.D.C.T.
CITY OF FORT WORTH
JARRET DRIVE
J.SMITH SURVEY,ABST.1149
FORT WORTH SPORTS AUTHORITY,INC. DOC.NO.96-R0083246 D.R.D.C.T.
END RETAINING WALL STA.1039+50.00,171.5' LT.
CONTROL OF ACCESS LIMITS
END RETAINING WALL STA.1047+50.00,110.0' LT.
EXIST.4'x2' RCB TO BE REMOVED
PROPOSED RETAINING WALL
PROPOSED RETAINING WALL
PROPOSED RIGHT OF WAY
PROPOSED RIGHT OF WAY LINE
RAMP WBR26
EXISTING RIGHT OF WAY
CL SH 114
CITY OF FORT WORTH
RAMP EBR26
EXISTING RIGHT OF WAY
PROPOSED RIGHT OF WAY
1040+00
1045+00
1050+00
1055+00
1060+00
END RETAINING WALL STA.1040+50.00,119.1' RT.
END RETAINING WALL STA.1040+50.00,171.0' RT.
BEGIN RETAINING WALL STA.1039+50.00,80.23' RT.
PROP.470 LF OF 4-9'x4' BOX CULVERTS
PROPOSED DRAINAGE EASEMENT
PROPOSED RETAINING WALL
VARIABLE WIDTH WATERLINE AND TEMPORARY CONSTRUCTION EASEMENT DOC.NO.97R0066579 D.R.D.C.T.
PROPOSED RETAINING WALL
CONTROL OF ACCESS LIMITS
LIMITS OF 100 YR. FLOOD BOUNDARY
A.FELTUS SURVEY,ABST.1464
FLOW
35W Dallas Denton EXIT 1/2 MILE
PROPOSED SIGN PANEL AND COSS STA.1051+00 (EB)
100' BRAZOS ELECTRIC POWER COOPERATIVE,INC.EASEMENT VOL.1623 PG.643 D.R.D.C.T.
STA.1052+70.73 (+/-) JARRET DRIVE CL SIGNALIZED INTERSECTION
PROPOSED RETAINING WALL
PROPOSED


WBR26 RAMP
PVI.STA.1038+00.00 PVI.EL.= 654.28 V.C.= 200.00' e = 0.43' K = 116
PVI.STA.1040+00.00 PVI.EL.= 657.78 V.C.= 200.00' e = -0.32' K = 155
BEGIN STA.1036+73.90 EL.= 654.26
PVC.STA.1037+00.00 EL.= 654.26
PVRC.STA.1039+00.00 EL.= 656.03
PVT.STA.1041+00.00 EL.= 658.24
END STA.1042+42.53 EL.= 658.69
-0.020%
+1.747%
+1.747%
+0.459%
EXIST.GROUND AT WBR26
PROPOSED GRADE AT WBR26
670
660
650
640
1035+00
1040+00
655.7 653.3 654.26 653.3 654.71 656.3 656.03 656.8 657.45 657.2 658.24 657.7 658.70 658.1 659.1 659.4
EXIST.GROUND AT S.H.114 CL
CREST STA.1019+43.92 ELE.665.04
PVT.STA.1022+00.00 EL.= 664.91
PROPOSED GRADE AT S.H.114 CL
STA.1032+35.10 (+/-) WALTRIP WAY CL
16'-5"
PVI.STA.1032+00.00 PVI.EL.= 658.19 V.C.= 100.00' e = 0.01' K = 1000
-0.600%
-0.500%
PVC.STA.1031+50.00 EL.= 658.49
PVT.STA.1032+50.00 EL.= 657.94
PVC.STA.1035+75.00 EL.= 656.32
SAG STA.1036+66.69 EL.= 656.09
PVI.STA.1038+00.00 PVI.EL.= 655.19 V.C.= 450.00' e = 1.38 K = 183
PVT.STA.1040+25.00 EL.= 659.59
-0.500%
+1.954%
100 YR WS=655.24 50 YR WS=654.82 (UPSTREAM OF SH 114)
EXIST.8'x4' RCB TO BE REMOVED
PROP.4 - 9' x 4' RCB F.L.EL.= 649.00 (+/-)
PVC.STA.1048+75.00 EL.= 676.20
BEGIN BRIDGE STA.1051+80.73
STA.1052+70.73 (+/-) JARRET DRIVE CL TOP OF PAVEMENT= 659.21(+/-)
END BRIDGE STA.1053+60.73
CREST STA.1053+72.57 EL.= 681.06
+1.954%
-1.384%
16'-6"
PVI.STA.1053+00.00 PVI.EL.= 684.50 V.C.= 850.00' e = -3.55' K = 255
EXIST.4' x 2' RCB TO BE REMOVED
PVRC.STA.1057+25.00 EL.= 678.62
PVI.STA.1061+00.00 PVI.EL.= 673.43 V.C.= 750.00' e = 2.12' K = 332
PROPOSED GRADE AT S.H.114 CL
-1.384%
-0.875%
SAG STA.1061+84.50 EL.= 675.44
EXIST.GROUND AT S.H.114 CL
PVI.STA.1038+75.00 PVI.EL.= 654.91 V.C.= 250.00' e = -0.60' K = 130
PVI.STA.1041+00.00 PVI.EL.= 651.60 V.C.= 200.00' e = 0.50' K = 100
BEGIN STA.1037+39.89 EL.= 654.26
PVC.STA.1037+50.00 EL.= 654.34
PROPOSED GRADE AT EBR26
PVRC.STA.1040+00.00 EL.= 653.07
EXIST.GROUND AT EBR26
PVT.STA.1042+00.00 EL.= 652.22
END STA.1042+17.19 EL.= 652.23
670
660
650
+0.458%
-1.469%
-1.469%
+0.534%
654.4 652.1 654.47 650.7 654.16 651.0 653.07 652.2 652.10 652.4 652.14 652.6 652.8
1040+00
EBR26 RAMP
S.H.114 MAINLANE PROFILE
665.04 671.6 664.97 673.0 664.68 674.2 664.19 674.5 663.59 674.4 662.99 674.5 662.39 674.6 661.79 675.0 661.19 675.0 660.59 674.4 659.99 673.0 659.39 670.6 658.79 668.3 658.20 666.2 657.69 663.9 657.19 661.8 656.69 659.7 656.21 657.9 656.12 656.6 656.57 656.4 657.57 656.6 659.12 656.8 661.05 657.1 663.01 657.4 664.96 657.5 666.91 657.7 668.87 657.8 670.82 658.2 672.78 658.3 674.73 658.5 676.67 658.9 678.33 659.1 679.60 659.3 680.41 659.6 680.95 660.1 681.04 660.5 680.74 660.9 680.04 661.3 678.95 661.6 677.61 661.9 676.66 661.8 675.95 661.3 675.55 660.6 675.44 659.6 675.64 658.3
1020+00
1025+00
1030+00
1035+00
1040+00
1045+00
1050+00
1055+00
1060+00

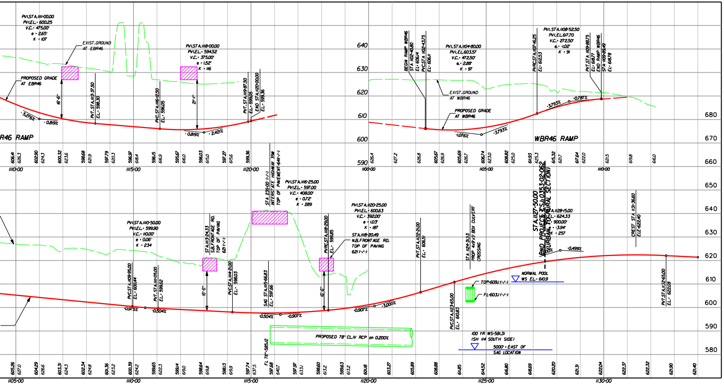

A.G. PETERSON SURVEY, ABST. 1664
FORT WORTH SPORTS AUTHORITY, INC. DOC. NO. 97-R0019046 D.R.D.C.T.
PROPOSED RETAINING WALL
BEGIN RETAINING WALL STA. 1083+00.00, 79.0' LT.
CONTROL OF ACCESS LIMITS
ALLISON AVENUE
Championship Pkwy
Jarret Drive
Waltrip Way
EXIT ONLY
PROPOSED SIGN PANEL AND COSS STA. 1090+00 (WB)
EXIT
PROPOSED GROUND MOUNT
BEGIN RETAINING WALL STA. 1093+00.00, 90.0' LT.
LIMITS OF 100 YR. FLOOD BOUNDARY
PROPOSED RIGHT OF WAY LINE
LABONTE LANE
PROPOSED SIGN PANEL AND OSB STA. 1099+55 (WB)
BEGIN RETAINING WALL STA. 1102+72.70, 69.0'
FORT W
EXI
1065+00
1070+00
1075+00
1080+00
1085+00
1090+00
1095+00
1100+00
1105+00
111.00'
97.00'
EXISTING RIGHT OF WAY
CL SH 114
RAMP WBR36
RAMP EBR36
D RIGHT OF WAY LINE
PROPOSED RETAINING WALL
STA. 1070+95.40 (+/-) CHAMPIONSHIP PKWY. CL. SIGNALIZED INTERSECTION
END RETAINING WALL STA. 1076+00.00, 110.0' RT.
CHAMPIONSHIP PARKWAY
ROANOKE RANCH AND INVESTMENT COMPANY VOL. 2699 PG. 979 D.R.D.C.T.
BEECHWOOD BUSINESS PARK JOINT VENTURE DOC. NO. 97R0064765 D.R.D.C.T.
G.W. SHAMBLIN SURVEY, ABST. 1191
35W
Dallas
Denton
PROPOSED SIGN PANEL AND COSS STA. 1078+50 (EB)
CONTROL OF ACCESS LIMITS
BEGIN RETAINING WALL STA. 1094+50.00, 78.0' RT.
STA. 1098+56.67 (+/-) LA BONTE LANE CL. BRIDGE TO BE BUILT BY OTHERS
30' EASEMENT & R.O.W. ENSERCH CORPORATION VOL. 3031, PG. 59 VOL. 3044, PG. 505 D.R.D.C.T.
35' UTILITY EASEMENT DOC. NO. 96R0043751 D.R.D.C.T.
BEGIN RETAINING WALL STA. 1105+50.00, 153.6' RT.
60' BRAZOS ELETRIC POWER COOPERATIVE, INC. EASEMENT VOL 527, PG. 113 D.R.D.C.T.


PVC STA. 1064+75.00 EL. = 676.71
CREST STA 1067+37.95 EL. = 677.86
PVI STA. 1070+00.00 PVI EL. = 681.30 V.C. = 1050.00' e = -4.59' K = 301
BEGIN BRIDGE STA. 1069+61.40
-0.875%
-2.619%
STA 1070+95.40 (+/-) CHAMPIONSHIP PARKWAY CL TOP OF PAVEMENT = 653.71 (+/-)
END BRIDGE STA. 1072+29.40
16'-6"
PVT STA. 1075+25.00 EL. = 667.55
STA 1083+83.81 (+/-) ALLISON AVENUE CL
650
640
630
620
WBR36 RAMP
BEGIN RAMP WBR36 STA 1080+21.00 EL. = 642.55
PVC STA 1080+21.50 EL. = 642.54
PVI STA. 1081+22.50 PVI EL. 641.28 V.C. = 202.00' e = 0.53' K = 97
-1.244%
PVRC STA 1082+23.50 EL. = 642.14
-0.847%
PVI STA. 1083+61.00 PVI EL. 643.30 V.C. = 275.00' e = -1.06' K = 89
-2.250%
PVT STA 1084+98.50 EL. = 640.21
END RAMP WBR36 STA 1085+00.00 EL. = 640.17
PROPOSED GRADE AT WBR36
EXIST. GROUND AT WBR36
643.2 641.88 641.8 641.97 640.5 642.46 639.0 641.88 637.4 640.17 635.1 634.4 633.5 632.4 631.6
1080+00
1085+00
1090+00
EBR36 RAMP
BEGIN STA. 1082+04.29 EL. = 648.14
PROPOSED GRADE AT EBR36
EXIST. GROUND AT EBR36
PVI STA. 1087+00.00 PVI EL. = 635.17 V.C. = 150.00' e = 0.18' K = 152
PVC STA. 1086+25.00 EL. = 637.12
-2.616%
-1.630%
PVT STA. 1075+00.00 EL. = 633.95
END STA. 1087+95.08 EL. = 633.62
633.62
645.2 644.5 642.0 640.5 645.64 638.7 643.02 636.9 640.40 635.4 637.79 634.5 635.35 632.6 632.7 632.7 632.5 632.2
PVC STA. 1093+70.00 EL. = 619.23
PVI STA. 1095+50.00 PVI EL. = 614.52 V.C. = 360.00' e = 0.74' K = 219
-2.619%
-0.975%
PVT STA. 1097+30.00 EL. = 612.77
STA 1098+56.67 (+/-) LaBONTE LANE CL
16'-6"
EXIST. GROUND AT S.H. 114 CL
PROPOSED GRADE AT S.H. 114 CL
640
630
620
610
600
590
EB
BEGIN STA. 1104+81.80 EL. = 626.30
PVC STA. 1104+85.00 EL. = 626.25
PVI STA. 1106+50.00 PVI EL. = 623.99 V.C. = 330.00' e = -1.61' K = 84
-1.370%
-5.276%
PVT STA. 1108+15.00 EL. = 615.29
PVC STA. 1108+62.50 EL. = 612.78
EXIST. GROUND AT EBR46
627.1 628.3 626.04 628.4 623.90 628.5 620.57 628.5 616.07 628.2 610.87 627.7
1105+00
676.14 657.1 676.92 656.0 677.54 655.1 677.83 654.7 677.79 654.4 677.42 654.0 676.71 653.9 675.68 653.6 674.31 653.5 672.60 653.3 670.56 653.0 668.20 652.8 665.59 651.9 662.97 650.3 660.35 648.4 657.73 646.8 655.11 645.0 652.49 643.3 649.87 641.5 647.26 639.8 644.64 638.3 642.02 637.1 639.40 636.2 636.78 635.6 634.16 635.3 631.54 634.7 628.92 634.3 626.30 634.0 623.69 633.4 621.07 632.9 618.47 632.8 616.21 632.1 614.42 631.8 613.08 631.2 612.08 630.7 611.11 630.1 610.13 628.9 609.16 628.9 608.18 628.6 607.21 627.9 606.24 627.8
1065+00
1070+00
1075+00
1080+00
1085+00
1090+00
1095+00
1100+00


IH 35W OVERPASS AND FRONTAGE ROAD BOX INTERCHANGE TO BE BUILT WITH THIS PROJECT UNLESS IMPROVEMENTS TO IH 35W OCCUR FIRST.
Championship Pkwy
Jarret Drive
Waltrip Way
EXIT 1/2 MILE
PROPOSED SIGN PANEL AND COSS STA.1120+00 (WB)
J. ARNOLD SURVEY, ABST. 1664
NORTH SPORTS AUTHORITY, INC.
DOC.NO.96-R0088963
D.R.D.C.T.
PROPOSED RETAINING WALL
CONTROL OF ACCESS LIMITS
END RETAINING WALL STA.1109+29.50, 162.5' LT.
BEGIN RETAINING WALL STA.1111+50.00, 215.50' LT.
EXISTING RIGHT OF WAY LINE
PROP. 1890 LF OF 4x9'x5' BOX CULVERT
PROP. 78" RCP CLVT
SCALE: 1"=100'
RAMP WBR46
RAMP EBR46
CL SH 114
STA. 1127+50.00
END PROJECT CSJ: 0353-02-062 (URBAN TO RURAL SECTION)
G.W. SHAMBLIN SURVEY, ABST. 1191
LIMITS OF 100 YR. FLOOD BOUNDARY
EXIST. RIGHT OF WAY LINE
20' WATER LINE EASEMENT DOC. NO.96-R0083579 D.R.D.C.T.
SOUTHBOUND FRONTAGE ROAD
INTERSTATE HIGHWAY 35 W
NORTHBOUND FRONTAGE ROAD
END RETAINING WALL STA.1112+50.00, 78.0' RT.
1105+00
1110+00
1115+00
1120+00
1125+00
1130+00

SUPERELEVATION TABLES

WESTBOUND	SH 114 MAINLANES	EASTBOUND	WESTBOUND	SH 114 MAINLANES	EASTBOUND
STATION	TEMPLATE	STATION	STATION	TEMPLATE	STATION
1014+81.55	-2.00% -2.00% AXIS OF ROTATION (TYP.)	1011+61.55		-2.00% +2.00%	1090+18.98
1018+35.55	-4.95% +4.95%	1019+95.55		-2.00% -2.00%	1094+98.98
1030+37.36	-4.95% +4.95%	1028+77.36	1118+76.32	-2.00% -2.00%	1121+96.32
1033+91.36	-2.00% -2.00%	1037+11.36	1125+96.32	-4.00% -4.00%	1124+36.32
	-2.00% -2.00%	1082+43.39	1139+93.87	-4.00% -4.00%	1141+53.87
	-2.00% +2.00%	1087+23.39	1147+13.87	-2.00% -2.00%	1143+93.87


PVI.STA.1111+00.00
PVI.EL.=600.25
V.C.=475.00'
e=2.65'
K=107
EXIST. GROUND AT EBR46
PROPOSED GRADE AT EBR46
PVI.STA.1118+00.00
PVI.EL.=594.52
V.C.=375.00'
e=1.52'
K=116
PVT.STA.1113+37.50
EL.=598.30
PVC.STA.1116+12.50
EL.=596.05
PVT.STA.1119+87.50
END STA.1120+00.00
EL.=599.36
-5.276%
-0.819%
+2.421%
16'-6"
21'-1"
EBR46 RAMP
BEGIN RAMP WBR46 STA.1102+40.80
PVC.STA.1102+43.75
PVI.STA.1104+80.00
PVI.EL.603.57
V.C.=472.50'
e=2.88'
K=97
PVC.STA.1107+16.25
PVI.STA.1108+52.50
PVI.EL.617.70
V.C.=272.50'
e=1.02'
K=91
PVT.STA.1109+88.75
END RAMP WBR46 STA.1109+95.49
EXIST. GROUND AT WBR46
PROPOSED GRADE AT WBR46
-1.076%
+3.793%
+0.787%
WBR46 RAMP
PVI.STA.1110+50.00
PVI.EL.=599.90
V.C.=110.00'
e=0.06'
K=234
STA.1113+24.33 S.B. FRONTAGE RD. TOP OF PAVING 621(+/-)
STA. 235+00 (+/-) INTERSTATE HIGHWAY 35W TOP OF PAVEMENT 641(+/-)
PVI.STA.1116+25.00
PVI.EL.=597.00
V.C.=408.00'
e=0.72'
K=289
PVI.STA.1120+25.00
PVI.EL.=600.63
V.C.=392.00'
e=1.03'
K=187
STA.1118+20.49 N.B. FRONTAGE RD. TOP OF PAVING 621(+/-)
STA.1124+31.53 PROP 4x9'x5' BOX CULVERT CROSSING
STA.1127+50.00 END PROJECT CSJ: 0353-02-062 (URBAN TO RURAL SECTION)
PVI.STA.1128+15.00
EL.=624.33
V.C.=900.00'
e=3.94'
K=257
CREST STA.1131+36.50 ELE.=622.40
NORMAL POOL WS EL.=610.9
TOP=609(+/-)
FL=603(+/-)
100 YR WS=581.31 (SH 114 SOUTH SIDE)
5000'± EAST OF SAG LOCATION
PROPOSED 78" CL.IV RCP on 0.200%
FL 78"=585.2
-0.975%
-0.504%
-0.907%
+3.000%
-0.499%
15'-6"
16'-6"
590
600
610
620
630
640
650
660
670
680
1105+00
1110+00
1115+00
1120+00
1125+00
1130+00

S.H. 114 CENTERLINE DATA

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Beginning chain 114CL description
===============================================================================

Point 1        N     7,062,923.0083  E     2,305,365.4407  Sta   715+00.0000

Course from 1 to PC 114CL-1  N 89^ 47' 55.19" E        Dist 642.7920

                               Curve Data
                              *----------*
Curve 114CL-1
P.I.  Station          730+77.3871  N     7,062,928.5512  E     2,306,942.8180
Delta         =      4^ 40' 13.40" (RT)
Degree        =      0^ 15' 00.00"
Tangent       =           934.5951
Length        =         1,868.1550
Radius        =        22,918.3118
External      =            19.0482
Long Chord    =         1,867.6378
Mid. Ord.     =            19.0324
P.C.  Station          721+42.7920  N     7,062,925.2671  E     2,306,008.2288
P.T.  Station          740+10.9470  N     7,062,855.7270  E     2,307,874.5715
C.C.                                N     7,040,007.0968  E     2,306,088.7635
Back          = N  89^ 47' 55.19" E
Ahead         = S  85^ 31' 51.42" E
Chord Bear    = S  87^ 51' 58.12" E

Course from PT 114CL-1 to PC 114CL-2  S 85^ 31' 51.42" E        Dist 2,030.2615

                               Curve Data
                              *----------*
Curve 114CL-2
P.I.  Station          762+41.4580  N     7,062,681.9243  E     2,310,098.3008
Delta         =      4^ 00' 12.10" (LT)
Degree        =      1^ 00' 00.00"
Tangent       =           200.2495
Length        =           400.3360
Radius        =         5,729.5780
External      =             3.4983
Long Chord    =           400.2546
Mid. Ord.     =             3.4962
P.C.  Station          760+41.2085  N     7,062,697.5279  E     2,309,898.6601
P.T.  Station          764+41.5446  N     7,062,680.2968  E     2,310,298.5436
C.C.                                N     7,068,409.6855  E     2,310,345.1121
Back          = S  85^ 31' 51.42" E
Ahead         = S  89^ 32' 03.52" E
Chord Bear    = S  87^ 31' 57.47" E

Course from PT 114CL-2 to PC 114CL-3  S 89^ 32' 03.52" E        Dist 4,161.6788

                               Curve Data
                              *----------*
Curve 114CL-3
P.I.  Station          807+31.4294  N     7,062,645.4297  E     2,314,588.2868
Delta         =      2^ 33' 49.30" (RT)
Degree        =      1^ 00' 00.00"
Tangent       =           128.2061
Length        =           256.3694
Radius        =         5,729.5780
External      =             1.4342
Long Chord    =           256.3480
Mid. Ord.     =             1.4338
P.C.  Station          806+03.2233  N     7,062,646.4718  E     2,314,460.0849
P.T.  Station          808+59.5927  N     7,062,638.6543  E     2,314,716.3137
C.C.                                N     7,056,917.0831  E     2,314,413.5165
Back          = S  89^ 32' 03.52" E
Ahead         = S  86^ 58' 14.22" E
Chord Bear    = S  88^ 15' 08.87" E

Course from PT 114CL-3 to PC 114CL-4  S 86^ 58' 14.22" E        Dist 528.6023

                               Curve Data
                              *----------*
Curve 114CL-4
P.I.  Station          815+49.9044  N     7,062,602.1726  E     2,315,405.6608
Delta         =      3^ 13' 59.99" (LT)
Degree        =      1^ 00' 00.00"
Tangent       =           161.7094
Length        =           323.3330
Radius        =         5,729.5780
External      =             2.2816
Long Chord    =           323.2901
Mid. Ord.     =             2.2806
P.C.  Station          813+88.1950  N     7,062,610.7187  E     2,315,244.1773
P.T.  Station          817+11.5280  N     7,062,602.7483  E     2,315,567.3691
C.C.                                N     7,068,332.2899  E     2,315,546.9746
Back          = S  86^ 58' 14.22" E
Ahead         = N  89^ 47' 45.79" E
Chord Bear    = S  88^ 35' 14.21" E

Course from PT 114CL-4 to PC 114CL-5  N 89^ 47' 45.79" E        Dist 12,668.8204

                               Curve Data
                              *----------*
Curve 114CL-5
P.I.  Station          949+84.5017  N     7,062,649.9938  E     2,328,840.2587
Delta         =     23^ 15' 53.00" (RT)
Degree        =      1^ 57' 08.27"
Tangent       =           604.1533
Length        =         1,191.6593
Radius        =         2,934.7890
External      =            61.5400
Long Chord    =         1,183.4898
Mid. Ord.     =            60.2761
P.C.  Station          943+80.3484  N     7,062,647.8433  E     2,328,236.1093
P.T.  Station          955+72.0077  N     7,062,413.3425  E     2,329,396.1341
C.C.                                N     7,059,713.0729  E     2,328,246.5557
Back          = N  89^ 47' 45.79" E
Ahead         = S  66^ 56' 21.21" E
Chord Bear    = S  78^ 34' 17.71" E

Course from PT 114CL-5 to PC 114CL-6  S 66^ 56' 21.21" E        Dist 797.7224

                               Curve Data
                              *----------*
Curve 114CL-6
P.I.  Station          966+35.4426  N     7,061,996.7873  E     2,330,374.5897
Delta         =      5^ 18' 37.60" (RT)
Degree        =      1^ 00' 00.00"
Tangent       =           265.7125
Length        =           531.0445
Radius        =         5,729.5780
External      =             6.1580
Long Chord    =           530.8545
Mid. Ord.     =             6.1514
P.C.  Station          963+69.7301  N     7,062,100.8688  E     2,330,130.1103
P.T.  Station          969+00.7746  N     7,061,870.5254  E     2,330,608.3868
C.C.                                N     7,056,829.1421  E     2,327,885.7926
Back          = S  66^ 56' 21.21" E
Ahead         = S  61^ 37' 43.60" E
Chord Bear    = S  64^ 17' 02.40" E

Course from PT 114CL-6 to PC 114CL-7  S 61^ 37' 43.60" E        Dist 224.9056

                               Curve Data
                              *----------*
Curve 114CL-7
P.I.  Station          973+91.3927  N     7,061,637.3923  E     2,331,040.0755
Delta         =      5^ 18' 37.60" (LT)
Degree        =      1^ 00' 00.00"
Tangent       =           265.7125
Length        =           531.0445
Radius        =         5,729.5780
External      =             6.1580
Long Chord    =           530.8545
Mid. Ord.     =             6.1514
P.C.  Station          971+25.6802  N     7,061,763.6542  E     2,330,806.2784
P.T.  Station          976+56.7248  N     7,061,533.3108  E     2,331,284.5549
C.C.                                N     7,066,805.0374  E     2,333,528.8726
Back          = S  61^ 37' 43.60" E
Ahead         = S  66^ 56' 21.21" E
Chord Bear    = S  64^ 17' 02.40" E

Course from PT 114CL-7 to PC 114CL-8  S 66^ 56' 21.21" E        Dist 2,107.5156

                               Curve Data
                              *----------*
Curve 114CL-8
P.I.  Station          998+41.6040  N     7,060,677.4776  E     2,333,294.8401
Delta         =      0^ 46' 25.05" (RT)
Degree        =      0^ 30' 00.00"
Tangent       =            77.3636
Length        =           154.7249
Radius        =        11,459.1600
External      =             0.2611
Long Chord    =           154.7237
Mid. Ord.     =             0.2611
P.C.  Station          997+64.2404  N     7,060,707.7814  E     2,333,223.6587
P.T.  Station          999+18.9652  N     7,060,646.2153  E     2,333,365.6060
C.C.                                N     7,050,164.3244  E     2,328,735.0217
Back          = S  66^ 56' 21.21" E
Ahead         = S  66^ 09' 56.16" E
Chord Bear    = S  66^ 33' 08.68" E
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S.H. 114 CENTERLINE DATA (CONTINUED)

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Course from PT 114CL-8 to PC 114CL-9  S 66^ 09' 56.16" E        Dist 1,798.5862

                              Curve Data
                             +-----------+
Curve 114CL-9
P.I.  Station        1024+47.0212  N     7,059,624.6417  E     2,335,678.0623
Delta        =     23^ 51' 09.00"  (LT)
Degree       =      1^ 39' 32.22"
Tangent      =           729.4698
Length       =         1,437.8077
Radius       =         3,453.7391
External     =            76.1957
Long Chord   =         1,427.4474
Mid. Ord.    =            74.5510
P.C.  Station        1017+17.5514  N     7,059,919.4164  E     2,335,010.8037
P.T.  Station        1031+55.3592  N     7,059,624.8721  E     2,336,407.5320
C.C.                               N     7,063,078.6111  E     2,336,406.4409
Back         = S  66^ 09' 56.16" E
Ahead        = N  89^ 58' 54.84" E
Chord Bear   = S  78^ 05' 30.66" E

Course from PT 114CL-9 to PC 114CL-10  N 89^ 58' 54.84" E       Dist 5,408.0350

                              Curve Data
                             +-----------+
Curve 114CL-10
P.I.  Station        1088+71.2625  N     7,059,626.6778  E     2,342,123.4350
Delta        =      3^ 04' 40.74"  (LT)
Degree       =      0^ 30' 00.00"
Tangent      =           307.8683
Length       =           615.5884
Radius       =        11,459.1559
External     =             4.1350
Long Chord   =           615.5144
Mid. Ord.    =             4.1335
P.C.  Station        1085+63.3942  N     7,059,626.5805  E     2,341,815.5667
P.T.  Station        1091+78.9826  N     7,059,643.3059  E     2,342,430.8539
C.C.                               N     7,071,085.5800  E     2,341,811.9468
Back         = N  89^ 58' 54.84" E
Ahead        = N  86^ 54' 14.10" E
Chord Bear   = N  88^ 26' 34.47" E

Course from PT 114CL-10 to PC 114CL-11  N 86^ 54' 14.10" E       Dist 3,177.3388

                              Curve Data
                             +-----------+
Curve 114CL-11
P.I.  Station        1133+08.4478  N     7,059,866.3407  E     2,346,554.2916
Delta        =     23^ 28' 09.85"  (RT)
Degree       =      1^ 15' 00.00"
Tangent      =           952.1264
Length       =         1,877.5523
Radius       =         4,583.6624
External     =            97.8444
Long Chord   =         1,864.4536
Mid. Ord.    =            95.7994
P.C.  Station        1123+56.3214  N     7,059,814.9158  E     2,345,603.5549
P.T.  Station        1142+33.8737  N     7,059,534.8716  E     2,347,446.8570
C.C.                               N     7,055,237.9439  E     2,345,851.1211
Back         = N  86^ 54' 14.10" E
Ahead        = S  69^ 37' 36.05" E
Chord Bear   = S  81^ 21' 40.98" E

Course from PT 114CL-11 to 2  S 69^ 37' 36.05" E        Dist 833.4506

Point 2        N     7,059,244.7178  E     2,348,228.1704  Sta  1150+67.3243

================================================================================
Ending chain 114CL description
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EASTBOUND FRONTAGE ROAD DATA

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Beginning chain EBFR description
================================================================================

                              Curve Data
                             +-----------+
Curve EBFR-1
P.I.  Station         983+26.9938  N     7,061,183.4805  E     2,331,947.9975
Delta        =      4^ 00' 00.01"  (RT)
Degree       =      2^ 00' 00.00"
Tangent      =           100.0407
Length       =           200.0001
Radius       =         2,864.7890
External     =             1.7462
Long Chord   =           199.9595
Mid. Ord.    =             1.7452
P.C.  Station         982+26.9531  N     7,061,222.6671  E     2,331,855.9510
P.T.  Station         984+26.9532  N     7,061,137.9684  E     2,332,037.0861
C.C.                               N     7,058,586.8038  E     2,330,733.7923
Back         = S  66^ 56' 21.21" E
Ahead        = S  62^ 56' 21.21" E
Chord Bear   = S  64^ 56' 21.21" E

Course from PT EBFR-1 to PC EBFR-2  S 62^ 56' 21.21" E        Dist 488.0269

                              Curve Data
                             +-----------+
Curve EBFR-2
P.I.  Station         990+15.0208  N     7,060,870.4357  E     2,332,560.7747
Delta        =      4^ 00' 00.00"  (LT)
Degree       =      2^ 00' 00.00"
Tangent      =           100.0406
Length       =           200.0000
Radius       =         2,864.7890
External     =             1.7462
Long Chord   =           199.9594
Mid. Ord.    =             1.7452
P.C.  Station         989+14.9801  N     7,060,915.9477  E     2,332,471.6860
P.T.  Station         991+14.9801  N     7,060,831.2490  E     2,332,652.8210
C.C.                               N     7,063,467.1123  E     2,333,774.9799
Back         = S  62^ 56' 21.21" E
Ahead        = S  66^ 56' 21.21" E
Chord Bear   = S  64^ 56' 21.21" E

Course from PT EBFR-2 to PC EBFR-3  S 66^ 56' 21.21" E        Dist 573.5851

                              Curve Data
                             +-----------+
Curve EBFR-3
P.I.  Station         997+65.1862  N     7,060,576.5586  E     2,333,251.0690
Delta        =      0^ 46' 25.05"  (RT)
Degree       =      0^ 30' 17.45"
Tangent      =            76.6210
Length       =           153.2396
Radius       =        11,349.1600
External     =             0.2586
Long Chord   =           153.2385
Mid. Ord.    =             0.2586
P.C.  Station         996+88.5652  N     7,060,606.5716  E     2,333,180.5709
P.T.  Station         998+41.8048  N     7,060,545.5964  E     2,333,321.1556
C.C.                               N     7,050,164.3244  E     2,328,735.0217
Back         = S  66^ 56' 21.21" E
Ahead        = S  66^ 09' 56.16" E
Chord Bear   = S  66^ 33' 08.68" E

Course from PT EBFR-3 to PC EBFR-4  S 66^ 09' 56.16" E        Dist 1,068.0113

                              Curve Data
                             +-----------+
Curve EBFR-4
P.I.  Station        1010+70.6401  N     7,060,049.0308  E     2,334,445.1924
Delta        =      6^ 25' 34.37"  (RT)
Degree       =      2^ 00' 00.00"
Tangent      =           160.8240
Length       =           321.3107
Radius       =         2,864.7890
External     =             4.5106
Long Chord   =           321.1423
Mid. Ord.    =             4.5035
P.C.  Station        1009+09.8162  N     7,060,114.0189  E     2,334,298.0839
P.T.  Station        1012+31.1268  N     7,059,967.9861  E     2,334,584.1028
C.C.                               N     7,057,493.5471  E     2,333,140.4382
Back         = S  66^ 09' 56.16" E
Ahead        = S  59^ 44' 21.79" E
Chord Bear   = S  62^ 57' 08.97" E

                              Curve Data
                             +-----------+
Curve EBFR-5
P.I.  Station        1013+91.9508  N     7,059,886.9414  E     2,334,723.0133
Delta        =      6^ 25' 34.37"  (LT)
Degree       =      2^ 00' 00.00"
Tangent      =           160.8240
Length       =           321.3107
Radius       =         2,864.7890
External     =             4.5106
Long Chord   =           321.1423
Mid. Ord.    =             4.5035
P.C.  Station        1012+31.1268  N     7,059,967.9861  E     2,334,584.1028
P.T.  Station        1015+52.4376  N     7,059,821.9533  E     2,334,870.1217
C.C.                               N     7,062,442.4251  E     2,336,027.7674
Back         = S  59^ 44' 21.79" E
Ahead        = S  66^ 09' 56.16" E
Chord Bear   = S  62^ 57' 08.97" E
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EBFR (CONTINUED)

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Course from PT EBFR-5 to PC EBFR-6  S 66^ 09' 56.16" E        Dist 89.3000

                              Curve Data
                             +-----------+
Curve EBFR-6
P.I.  Station        1024+02.0442  N     7,059,478.6319  E     2,335,647.2715
Delta        =     23^ 51' 09.00"  (LT)
Degree       =      1^ 35' 29.99"
Tangent      =           760.3066
Length       =         1,498.5882
Radius       =         3,599.7391
External     =            79.4167
Long Chord   =         1,487.7899
Mid. Ord.    =            77.7025
P.C.  Station        1016+41.7375  N     7,059,785.8677  E     2,334,951.8059
P.T.  Station        1031+40.3257  N     7,059,478.8721  E     2,336,407.5781
C.C.                               N     7,063,078.6111  E     2,336,406.4409
Back         = S  66^ 09' 56.16" E
Ahead        = N  89^ 58' 54.84" E
Chord Bear   = S  78^ 05' 30.66" E

Course from PT EBFR-6 to PC EBFR-7  N 89^ 58' 54.84" E        Dist 6,028.4060

                              Curve Data
                             +-----------+
Curve EBFR-7
P.I.  Station        1095+22.5213  N     7,059,480.8883  E     2,342,789.7734
Delta        =      1^ 45' 42.53"  (LT)
Degree       =      0^ 14' 56.44"
Tangent      =           353.7895
Length       =           707.5233
Radius       =        23,009.3100
External     =             2.7198
Long Chord   =           707.4955
Mid. Ord.    =             2.7194
P.C.  Station        1091+68.7317  N     7,059,480.7765  E     2,342,435.9838
P.T.  Station        1098+76.2551  N     7,059,491.8771  E     2,343,143.3922
C.C.                               N     7,082,490.0854  E     2,342,428.7151
Back         = N  89^ 58' 54.84" E
Ahead        = N  88^ 13' 12.31" E
Chord Bear   = N  89^ 06' 03.58" E

Course from PT EBFR-7 to PC EBFR-8  N 86^ 31' 09.90" E        Dist 2,514.2253

                              Curve Data
                             +-----------+
Curve EBFR-8
P.I.  Station        1125+67.5879  N     7,059,655.2687  E     2,345,829.7607
Delta        =      3^ 32' 27.68"  (RT)
Degree       =      1^ 00' 00.00"
Tangent      =           177.1075
Length       =           354.1022
Radius       =         5,729.5780
External     =             2.7366
Long Chord   =           354.0459
Mid. Ord.    =             2.7353
P.C.  Station        1123+90.4804  N     7,059,644.5164  E     2,345,652.9799
P.T.  Station        1127+44.5826  N     7,059,655.0818  E     2,346,006.8681
C.C.                               N     7,053,925.5070  E     2,346,000.8241
Back         = N  86^ 31' 09.90" E
Ahead        = S  89^ 56' 22.42" E
Chord Bear   = N  88^ 17' 23.74" E

Course from PT EBFR-8 to PC EBFR-9  N 89^ 54' 10.14" E        Dist 332.4661

                              Curve Data
                             +-----------+
Curve EBFR-9
P.I.  Station        1134+38.3035  N     7,059,656.2585  E     2,346,700.5880
Delta        =     21^ 17' 29.78"  (RT)
Degree       =      2^ 58' 52.62"
Tangent      =           361.2548
Length       =           714.1759
Radius       =         1,921.8498
External     =            33.6582
Long Chord   =           710.0737
Mid. Ord.    =            33.0789
P.C.  Station        1130+77.0487  N     7,059,655.6458  E     2,346,339.3337
P.T.  Station        1137+91.2246  N     7,059,525.6527  E     2,347,037.4071
C.C.                               N     7,057,733.7988  E     2,346,342.5935
Back         = N  89^ 54' 10.14" E
Ahead        = S  68^ 48' 20.08" E
Chord Bear   = S  79^ 27' 04.97" E

Course from PT EBFR-9 to 6  S 68^ 48' 20.08" E        Dist 380.6660

Point 6        N     7,059,388.0291  E     2,347,392.3245  Sta  1141+71.8907

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Ending chain EBFR description
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WESTBOUND FRONTAGE ROAD DATA

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Beginning chain WBFR description
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                              Curve Data
                             +-----------+
Curve WBFR-1
P.I.  Station         975+58.1699  N     7,061,684.1029  E     2,331,097.6056
Delta        =      4^ 39' 36.90"  (LT)
Degree       =      2^ 00' 00.00"
Tangent      =           116.5706
Length       =           233.0126
Radius       =         2,864.7890
External     =             2.3707
Long Chord   =           232.9483
Mid. Ord.    =             2.3687
P.C.  Station         974+41.5994  N     7,061,736.2535  E     2,330,993.3511
P.T.  Station         976+74.6119  N     7,061,640.5952  E     2,331,205.7526
C.C.                               N     7,064,298.3702  E     2,332,274.9804
Back         = S  63^ 25' 29.05" E
Ahead        = S  68^ 05' 05.95" E
Chord Bear   = S  65^ 45' 17.50" E

Course from PT WBFR-1 to PC WBFR-2  S 68^ 05' 05.95" E        Dist 1,592.3706

                              Curve Data
                             +-----------+
Curve WBFR-2
P.I.  Station         993+26.6665  N     7,061,023.9974  E     2,332,738.4272
Delta        =      2^ 23' 13.24"  (LT)
Degree       =      2^ 00' 00.00"
Tangent      =            59.6839
Length       =           119.3505
Radius       =         2,864.7890
External     =             0.6216
Long Chord   =           119.3419
Mid. Ord.    =             0.6215
P.C.  Station         992+66.9826  N     7,061,046.2733  E     2,332,683.0562
P.T.  Station         993+86.3331  N     7,061,004.0470  E     2,332,794.6780
C.C.                               N     7,063,704.0483  E     2,333,752.2839
Back         = S  68^ 05' 05.95" E
Ahead        = S  70^ 28' 19.19" E
Chord Bear   = S  69^ 16' 42.57" E

                              Curve Data
                             +-----------+
Curve WBFR-3
P.I.  Station         994+74.6804  N     7,060,974.5154  E     2,332,877.9434
Delta        =      3^ 31' 57.98"  (RT)
Degree       =      2^ 00' 00.00"
Tangent      =            88.3473
Length       =           176.6387
Radius       =         2,864.7890
External     =             1.3619
Long Chord   =           176.6107
Mid. Ord.    =             1.3613
P.C.  Station         993+86.3331  N     7,061,004.0470  E     2,332,794.6780
P.T.  Station         995+62.9718  N     7,060,939.9091  E     2,332,959.2309
C.C.                               N     7,058,304.0458  E     2,331,837.0721
Back         = S  70^ 28' 19.19" E
Ahead        = S  66^ 56' 21.21" E
Chord Bear   = S  68^ 42' 20.20" E

Course from PT WBFR-3 to PC WBFR-4  S 66^ 56' 21.21" E        Dist 334.2234

                              Curve Data
                             +-----------+
Curve WBFR-4
P.I.  Station         999+75.3014  N     7,060,778.3965  E     2,333,338.6112
Delta        =      0^ 46' 25.05"  (RT)
Degree       =      0^ 29' 42.88"
Tangent      =            78.1062
Length       =           156.2101
Radius       =        11,569.1600
External     =             0.2637
Long Chord   =           156.2089
Mid. Ord.    =             0.2636
P.C.  Station         998+97.1952  N     7,060,808.9913  E     2,333,266.7465
P.T.  Station        1000+53.4053  N     7,060,746.8342  E     2,333,410.0564
C.C.                               N     7,050,164.3244  E     2,328,735.0217
Back         = S  66^ 56' 21.21" E
Ahead        = S  66^ 09' 56.16" E
Chord Bear   = S  66^ 33' 08.68" E
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WBFR DATA (CONTINUED)

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Course from PT WBFR-4 to PC WBFR-5  S 66^ 09' 56.16" E        Dist 936.0996

                              Curve Data
                             +-----------+
Curve WBFR-5
P.I.  Station        1011+50.3289  N     7,060,303.5734  E     2,334,413.4312
Delta        =      6^ 25' 34.37"  (LT)
Degree       =      2^ 00' 00.00"
Tangent      =           160.8240
Length       =           321.3108
Radius       =         2,864.7890
External     =             4.5106
Long Chord   =           321.1424
Mid. Ord.    =             4.5035
P.C.  Station        1009+89.5049  N     7,060,368.5615  E     2,334,266.3228
P.T.  Station        1013+10.8156  N     7,060,255.4585  E     2,334,566.8891
C.C.                               N     7,062,989.0333  E     2,335,423.9684
Back         = S  66^ 09' 56.16" E
Ahead        = S  72^ 35' 30.53" E
Chord Bear   = S  69^ 22' 43.35" E

                              Curve Data
                             +-----------+
Curve WBFR-6
P.I.  Station        1014+71.6396  N     7,060,207.3437  E     2,334,720.3470
Delta        =      6^ 25' 34.37"  (RT)
Degree       =      2^ 00' 00.00"
Tangent      =           160.8240
Length       =           321.3107
Radius       =         2,864.7890
External     =             4.5106
Long Chord   =           321.1424
Mid. Ord.    =             4.5035
P.C.  Station        1013+10.8156  N     7,060,255.4585  E     2,334,566.8891
P.T.  Station        1016+32.1264  N     7,060,142.3556  E     2,334,867.4555
C.C.                               N     7,057,521.8838  E     2,333,709.8098
Back         = S  72^ 35' 30.53" E
Ahead        = S  66^ 09' 56.16" E
Chord Bear   = S  69^ 22' 43.35" E

Course from PT WBFR-6 to PC WBFR-7  S 66^ 09' 56.16" E        Dist 221.2116

                              Curve Data
                             +-----------+
Curve WBFR-7
P.I.  Station        1025+51.9709  N     7,059,770.6514  E     2,335,708.8531
Delta        =     23^ 51' 09.00"  (LT)
Degree       =      1^ 43' 55.82"
Tangent      =           698.6329
Length       =         1,377.0272
Radius       =         3,307.7391
External     =            72.9747
Long Chord   =         1,367.1049
Mid. Ord.    =            71.3995
P.C.  Station        1018+53.3380  N     7,060,052.9651  E     2,335,069.8016
P.T.  Station        1032+30.3652  N     7,059,770.8721  E     2,336,407.4859
C.C.                               N     7,063,078.6111  E     2,336,406.4409
Back         = S  66^ 09' 56.16" E
Ahead        = N  89^ 58' 54.84" E
Chord Bear   = S  78^ 05' 30.66" E

Course from PT WBFR-7 to PC WBFR-8  N 89^ 58' 54.84" E        Dist 5,408.0350

                              Curve Data
                             +-----------+
Curve WBFR-8
P.I.  Station        1088+69.5557  N     7,059,772.6535  E     2,342,046.6760
Delta        =      4^ 37' 14.16"  (LT)
Degree       =      1^ 00' 00.00"
Tangent      =           231.1554
Length       =           462.0603
Radius       =         5,729.5800
External     =             4.6610
Long Chord   =           461.9351
Mid. Ord.    =             4.6572
P.C.  Station        1086+38.4002  N     7,059,772.5805  E     2,341,815.5206
P.T.  Station        1091+00.4605  N     7,059,791.3476  E     2,342,277.0743
C.C.                               N     7,065,502.1602  E     2,341,813.7106
Back         = N  89^ 58' 54.84" E
Ahead        = N  85^ 21' 40.68" E
Chord Bear   = N  87^ 40' 17.76" E

Course from PT WBFR-8 to PC WBFR-9  N 85^ 21' 40.68" E        Dist 360.9038

                              Curve Data
                             +-----------+
Curve WBFR-9
P.I.  Station        1096+15.6332  N     7,059,833.0107  E     2,342,790.5595
Delta        =      1^ 32' 33.42"  (RT)
Degree       =      0^ 30' 00.00"
Tangent      =           154.2689
Length       =           308.5192
Radius       =        11,459.0000
External     =             1.0384
Long Chord   =           308.5099
Mid. Ord.    =             1.0383
P.C.  Station        1094+61.3642  N     7,059,820.5347  E     2,342,636.7959
P.T.  Station        1097+69.8834  N     7,059,841.3429  E     2,342,944.6032
C.C.                               N     7,048,399.0689  E     2,343,563.5103
Back         = N  85^ 21' 40.68" E
Ahead        = N  86^ 54' 14.10" E
Chord Bear   = N  86^ 07' 57.39" E

Course from PT WBFR-9 to 11  N 86^ 54' 14.10" E        Dist 1,345.3156

Point 11       N     7,059,914.0041  E     2,344,287.9552  Sta  1111+15.1991

Course from 11 to PC WBFR-10  N 87^ 15' 46.82" E        Dist 1,173.8972

                              Curve Data
                             +-----------+
Curve WBFR-10
P.I.  Station        1126+38.0838  N     7,059,986.7240  E     2,345,809.1027
Delta        =      6^ 58' 16.10"  (RT)
Degree       =      1^ 00' 00.00"
Tangent      =           348.9875
Length       =           697.1138
Radius       =         5,729.5780
External     =            10.6185
Long Chord   =           696.6839
Mid. Ord.    =            10.5989
P.C.  Station        1122+89.0963  N     7,059,970.0594  E     2,345,460.5133
P.T.  Station        1129+86.2101  N     7,059,960.9574  E     2,346,157.1377
C.C.                               N     7,054,247.0175  E     2,345,734.1088
Back         = N  87^ 15' 46.82" E
Ahead        = S  85^ 45' 57.09" E
Chord Bear   = S  89^ 15' 05.14" E

Course from PT WBFR-10 to PC WBFR-11  S 85^ 45' 57.09" E        Dist 68.1261

                              Curve Data
                             +-----------+
Curve WBFR-11
P.I.  Station        1137+04.2129  N     7,059,907.9455  E     2,346,873.1809
Delta        =     16^ 08' 21.94"  (RT)
Degree       =      1^ 15' 00.00"
Tangent      =           649.8767
Length       =         1,291.1478
Radius       =         4,583.6396
External     =            45.8411
Long Chord   =         1,286.8833
Mid. Ord.    =            45.3872
P.C.  Station        1130+54.3362  N     7,059,955.9275  E     2,346,225.0779
P.T.  Station        1143+45.4840  N     7,059,681.6976  E     2,347,482.4031
C.C.                               N     7,055,384.7982  E     2,345,886.6564
Back         = S  85^ 45' 57.09" E
Ahead        = S  69^ 37' 35.15" E
Chord Bear   = S  77^ 41' 46.12" E

Course from PT WBFR-11 to 12  S 69^ 37' 35.15" E        Dist 17.7928

Point 12       N     7,059,675.5032  E     2,347,499.0829  Sta  1143+63.2768

================================================================================
Ending chain WBFR description
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RAMP EBR16 DATA

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Beginning chain EBR16 description
================================================================================

                              Curve Data
                             +-----------+
Curve EBR16-1
P.I.  Station        1006+62.5078  N     7,060,244.6684  E     2,334,002.3428
Delta        =      3^ 27' 32.49"  (LT)
Degree       =      2^ 00' 00.00"
Tangent      =            86.5019
Length       =           172.9513
Radius       =         2,864.7890
External     =             1.3057
Long Chord   =           172.9250
Mid. Ord.    =             1.3051
P.C.  Station        1005+76.0059  N     7,060,279.6234  E     2,333,923.2180
P.T.  Station        1007+48.9572  N     7,060,214.5511  E     2,334,083.4324
C.C.                               N     7,062,900.0951  E     2,335,080.8637
Back         = S  66^ 09' 56.16" E
Ahead        = S  69^ 37' 28.65" E
Chord Bear   = S  67^ 53' 42.41" E

Course from PT EBR16-1 to PC EBR16-2  S 69^ 37' 28.65" E        Dist 859.8616

                              Curve Data
                             +-----------+
Curve EBR16-2
P.I.  Station        1016+81.0010  N     7,059,890.0422  E     2,334,957.1599
Delta        =      2^ 53' 12.04"  (RT)
Degree       =      2^ 00' 00.00"
Tangent      =            72.1822
Length       =           144.3339
Radius       =         2,864.7890
External     =             0.9092
Long Chord   =           144.3187
Mid. Ord.    =             0.9089
P.C.  Station        1016+08.8188  N     7,059,915.1738  E     2,334,889.4940
P.T.  Station        1017+53.1527  N     7,059,861.5347  E     2,335,023.4743
C.C.                               N     7,057,229.6297  E     2,333,892.0628
Back         = S  69^ 37' 28.65" E
Ahead        = S  66^ 44' 16.61" E
Chord Bear   = S  68^ 10' 52.63" E

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Ending chain EBR16 description
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RAMP EBR26 DATA

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Beginning chain EBR26 description
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                              Curve Data
                             +-----------+
Curve EBR26-1
P.I.  Station        1032+78.8587  N     7,059,564.9111  E     2,336,530.9500
Delta        =      4^ 55' 58.49"  (RT)
Degree       =      2^ 00' 00.00"
Tangent      =           123.3991
Length       =           246.6456
Radius       =         2,864.7890
External     =             2.6564
Long Chord   =           246.5695
Mid. Ord.    =             2.6540
P.C.  Station        1031+55.4596  N     7,059,564.8721  E     2,336,407.5509
P.T.  Station        1034+02.1052  N     7,059,554.3389  E     2,336,653.8953
C.C.                               N     7,056,700.0833  E     2,336,408.4559
Back         = N  89^ 58' 54.84" E
Ahead        = S  85^ 05' 06.67" E
Chord Bear   = S  87^ 33' 05.92" E

Course from PT EBR26-1 to PC EBR26-2  S 85^ 05' 06.67" E        Dist 214.6768

                              Curve Data
                             +-----------+
Curve EBR26-2
P.I.  Station        1036+77.6140  N     7,059,530.7349  E     2,336,928.3911
Delta        =      2^ 25' 58.49"  (LT)
Degree       =      2^ 00' 00.00"
Tangent      =            60.8320
Length       =           121.6456
Radius       =         2,864.7890
External     =             0.6458
Long Chord   =           121.6365
Mid. Ord.    =             0.6456
P.C.  Station        1036+16.7820  N     7,059,535.9466  E     2,336,867.7828
P.T.  Station        1037+38.4277  N     7,059,528.1006  E     2,336,989.1660
C.C.                               N     7,062,390.2023  E     2,337,113.2222
Back         = S  85^ 05' 06.67" E
Ahead        = S  87^ 31' 05.16" E
Chord Bear   = S  86^ 18' 05.92" E

Course from PT EBR26-2 to PC EBR26-3  S 87^ 31' 05.16" E        Dist 314.2908

                              Curve Data
                             +-----------+
Curve EBR26-3
P.I.  Station        1040+90.2206  N     7,059,512.8666  E     2,337,340.6290
Delta        =      1^ 30' 00.00"  (RT)
Degree       =      2^ 00' 00.00"
Tangent      =            37.5021
Length       =            75.0000
Radius       =         2,864.7890
External     =             0.2455
Long Chord   =            74.9979
Mid. Ord.    =             0.2454
P.C.  Station        1040+52.7185  N     7,059,514.4906  E     2,337,303.1620
P.T.  Station        1041+27.7185  N     7,059,510.2624  E     2,337,378.0406
C.C.                               N     7,056,652.3889  E     2,337,179.1058
Back         = S  87^ 31' 05.16" E
Ahead        = S  86^ 01' 05.16" E
Chord Bear   = S  86^ 46' 05.16" E

Course from PT EBR26-3 to PC EBR26-4  S 86^ 01' 05.16" E        Dist 345.5632

                              Curve Data
                             +-----------+
Curve EBR26-4
P.I.  Station        1045+73.3224  N     7,059,479.3191  E     2,337,822.5687
Delta        =      4^ 00' 00.00"  (LT)
Degree       =      2^ 00' 00.00"
Tangent      =           100.0406
Length       =           200.0000
Radius       =         2,864.7890
External     =             1.7462
Long Chord   =           199.9594
Mid. Ord.    =             1.7452
P.C.  Station        1044+73.2817  N     7,059,486.2661  E     2,337,722.7696
P.T.  Station        1046+73.2817  N     7,059,479.3507  E     2,337,922.6094
C.C.                               N     7,062,344.1396  E     2,337,921.7044
Back         = S  86^ 01' 05.16" E
Ahead        = N  89^ 58' 54.84" E
Chord Bear   = S  88^ 01' 05.16" E

================================================================================
Ending chain EBR26 description
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RAMP EBR36 DATA

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Beginning chain EBR36 description
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                              Curve Data
                             +-----------+
Curve EBR36-1
P.I.  Station        1075+77.8420  N     7,059,578.2692  E     2,340,830.0297
Delta        =      3^ 06' 46.48"  (RT)
Degree       =      2^ 00' 00.00"
Tangent      =            77.8420
Length       =           155.6456
Radius       =         2,864.7890
External     =             1.0574
Long Chord   =           155.6265
Mid. Ord.    =             1.0570
P.C.  Station        1075+00.0000  N     7,059,578.2446  E     2,340,752.1878
P.T.  Station        1076+55.6456  N     7,059,574.0666  E     2,340,907.7581
C.C.                               N     7,056,713.4558  E     2,340,753.0928
Back         = N  89^ 58' 54.84" E
Ahead        = S  86^ 54' 18.68" E
Chord Bear   = S  88^ 27' 41.92" E
```

RAMP EBR36 DATA (CONTINUED)

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Course from PT EBR36-1 to PC EBR36-2  S 86^ 54' 18.68" E        Dist 1,621.2594

                              Curve Data
                             +-----------+
Curve EBR36-2
P.I.  Station        1093+72.2748  N     7,059,481.3886  E     2,342,621.8837
Delta        =      3^ 48' 47.91"  (LT)
Degree       =      2^ 00' 00.00"
Tangent      =            95.3698
Length       =           190.6691
Radius       =         2,864.7890
External     =             1.5870
Long Chord   =           190.6339
Mid. Ord.    =             1.5861
P.C.  Station        1092+76.9050  N     7,059,486.5374  E     2,342,526.6530
P.T.  Station        1094+67.5741  N     7,059,482.5845  E     2,342,717.2460
C.C.                               N     7,062,347.2025  E     2,342,681.3213
Back         = S  86^ 54' 18.68" E
Ahead        = N  89^ 16' 53.41" E
Chord Bear   = S  88^ 48' 42.63" E

================================================================================
Ending chain EBR36 description
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RAMP EBR46 DATA

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Beginning chain EBR46 description
================================================================================

                              Curve Data
                             +-----------+
Curve EBR46-1
P.I.  Station        1103+55.2042  N     7,059,544.6890  E     2,343,616.3681
Delta        =      4^ 00' 00.00"  (LT)
Degree       =      2^ 00' 00.00"
Tangent      =           100.0406
Length       =           200.0000
Radius       =         2,864.7890
External     =             1.7462
Long Chord   =           199.9593
Mid. Ord.    =             1.7452
P.C.  Station        1102+55.1636  N     7,059,538.6155  E     2,343,516.5120
P.T.  Station        1104+55.1636  N     7,059,557.7133  E     2,343,715.5573
C.C.                               N     7,062,398.1202  E     2,343,342.5898
Back         = N  86^ 31' 09.90" E
Ahead        = N  82^ 31' 09.90" E
Chord Bear   = N  84^ 31' 09.90" E

Course from PT EBR46-1 to PC EBR46-2  N 82^ 31' 09.90" E        Dist 450.9047

                              Curve Data
                             +-----------+
Curve EBR46-2
P.I.  Station        1110+15.7343  N     7,059,630.6941  E     2,344,271.3570
Delta        =      4^ 23' 04.20"  (RT)
Degree       =      2^ 00' 00.00"
Tangent      =           109.6660
Length       =           219.2249
Radius       =         2,864.7890
External     =             2.0983
Long Chord   =           219.1715
Mid. Ord.    =             2.0967
P.C.  Station        1109+06.0683  N     7,059,616.4167  E     2,344,162.6244
P.T.  Station        1111+25.2932  N     7,059,636.6173  E     2,344,380.8629
C.C.                               N     7,056,776.0098  E     2,344,535.5918
Back         = N  82^ 31' 09.90" E
Ahead        = N  86^ 54' 14.10" E
Chord Bear   = N  84^ 42' 42.00" E

Course from PT EBR46-2 to PC EBR46-3  N 86^ 54' 14.10" E        Dist 578.5274

                              Curve Data
                             +-----------+
Curve EBR46-3
P.I.  Station        1118+29.4850  N     7,059,674.6511  E     2,345,084.0268
Delta        =      5^ 00' 21.24"  (LT)
Degree       =      1^ 59' 34.95"
Tangent      =           125.6643
Length       =           251.1688
Radius       =         2,874.7900
External     =             2.7452
Long Chord   =           251.0889
Mid. Ord.    =             2.7426
P.C.  Station        1117+03.8207  N     7,059,667.8639  E     2,344,958.5459
P.T.  Station        1119+54.9894  N     7,059,692.3616  E     2,345,208.4369
C.C.                               N     7,062,538.4577  E     2,344,803.2769
Back         = N  86^ 54' 14.10" E
Ahead        = N  81^ 53' 52.86" E
Chord Bear   = N  84^ 24' 03.48" E

Course from PT EBR46-3 to PC EBR46-4  N 81^ 53' 52.86" E        Dist 284.5245

                              Curve Data
                             +-----------+
Curve EBR46-4
P.I.  Station        1124+79.5412  N     7,059,766.2896  E     2,345,727.7530
Delta        =      9^ 34' 43.39"  (RT)
Degree       =      2^ 00' 00.00"
Tangent      =           240.0273
Length       =           478.9359
Radius       =         2,864.7890
External     =            10.0378
Long Chord   =           478.3784
Mid. Ord.    =            10.0027
P.C.  Station        1122+39.5140  N     7,059,732.4612  E     2,345,490.1215
P.T.  Station        1127+18.4499  N     7,059,760.1038  E     2,345,967.7005
C.C.                               N     7,056,896.2663  E     2,345,893.8720
Back         = N  81^ 53' 52.86" E
Ahead        = S  88^ 31' 23.75" E
Chord Bear   = N  86^ 41' 14.55" E

================================================================================
Ending chain EBR46 description
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RAMP WBR16 DATA

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Beginning chain WBR16 description
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                              Curve Data
                             +-----------+
Curve WBR16-1
P.I.  Station        1006+64.5500  N     7,060,445.1230  E     2,334,093.0165
Delta        =      4^ 00' 00.00"  (RT)
Degree       =      2^ 00' 00.00"
Tangent      =           100.0406
Length       =           200.0000
Radius       =         2,864.7890
External     =             1.7462
Long Chord   =           199.9594
Mid. Ord.    =             1.7452
P.C.  Station        1005+64.5094  N     7,060,485.5488  E     2,334,001.5077
P.T.  Station        1007+64.5094  N     7,060,398.4122  E     2,334,181.4826
C.C.                               N     7,057,865.0770  E     2,332,843.8620
Back         = S  66^ 09' 56.16" E
Ahead        = S  62^ 09' 56.16" E
Chord Bear   = S  64^ 09' 56.16" E

Course from PT WBR16-1 to PC WBR16-2  S 62^ 09' 56.16" E        Dist 172.6440

                              Curve Data
                             +-----------+
Curve WBR16-2
P.I.  Station        1010+12.9841  N     7,060,282.3950  E     2,334,401.2089
Delta        =      3^ 01' 57.07"  (LT)
Degree       =      2^ 00' 00.00"
Tangent      =            75.8307
Length       =           151.6260
Radius       =         2,864.7890
External     =             1.0034
Long Chord   =           151.6083
Mid. Ord.    =             1.0031
P.C.  Station        1009+37.1534  N     7,060,317.8017  E     2,334,334.1518
P.T.  Station        1010+88.7794  N     7,060,250.5854  E     2,334,470.0453
C.C.                               N     7,062,851.1369  E     2,335,671.7723
Back         = S  62^ 09' 56.16" E
Ahead        = S  65^ 11' 53.23" E
Chord Bear   = S  63^ 40' 54.69" E
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RAMP WBR16 DATA (CONTINUED)

```
Course from PT WBR16-2 to PC WBR16-3  S 65^ 11' 53.23" E         Dist 261.2206

                                  Curve Data
                                 *----------*
Curve WBR16-3
P.I.  Station        1014+41.0411  N     7,060,102.8180  E     2,334,789.8157
Delta        =         3^ 38' 25.50" (RT)
Degree       =         2^ 00' 00.00"
Tangent      =              91.0411
Length       =             182.0209
Radius       =           2,864.7890
External     =               1.4462
Long Chord   =             181.9903
Mid. Ord.    =               1.4455
P.C.  Station        1013+50.0000  N     7,060,141.0081  E     2,334,707.1719
P.T.  Station        1015+32.0209  N     7,060,059.4575  E     2,334,869.8678
C.C.                               N     7,057,540.4566  E     2,333,505.4448
Back         = S  65^ 11' 53.23" E
Ahead        = S  61^ 33' 27.72" E
Chord Bear   = S  63^ 22' 40.48" E

                                  Curve Data
                                 *----------*
Curve WBR16-4
P.I.  Station        1017+68.7849  N     7,059,946.6931  E     2,335,078.0538
Delta        =         9^ 26' 56.71" (LT)
Degree       =         2^ 00' 00.00"
Tangent      =             236.7640
Length       =             472.4543
Radius       =           2,864.7890
External     =               9.7672
Long Chord   =             471.9191
Mid. Ord.    =               9.7340
P.C.  Station        1015+32.0209  N     7,060,059.4575  E     2,334,869.8678
P.T.  Station        1020+04.4752  N     7,059,869.6368  E     2,335,301.9277
C.C.                               N     7,062,578.4585  E     2,336,234.2908
Back         = S  61^ 33' 27.72" E
Ahead        = S  71^ 00' 24.43" E
Chord Bear   = S  66^ 16' 56.08" E

================================================================================
Ending chain WBR16 description
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RAMP WBR26 DATA

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Beginning chain WBR26 description
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                                  Curve Data
                                 *----------*
Curve WBR26-1
P.I.  Station        1029+73.2730  N     7,059,687.2590  E     2,336,224.6467
Delta        =         7^ 46' 37.73" (LT)
Degree       =         3^ 00' 00.00"
Tangent      =             129.8185
Length       =             259.2382
Radius       =           1,909.8593
External     =               4.4070
Long Chord   =             259.0392
Mid. Ord.    =               4.3968
P.C.  Station        1028+43.4545  N     7,059,699.1580  E     2,336,095.3747
P.T.  Station        1031+02.6927  N     7,059,692.9626  E     2,336,354.3399
C.C.                               N     7,061,600.9777  E     2,336,270.4302
Back         = S  84^ 44' 27.43" E
Ahead        = N  87^ 28' 54.84" E
Chord Bear   = S  88^ 37' 46.30" E

Course from PT WBR26-1 to PC WBR26-2  N 87^ 28' 54.84" E         Dist 936.6741

                                  Curve Data
                                 *----------*
Curve WBR26-2
P.I.  Station        1040+76.8690  N     7,059,735.7630  E     2,337,327.5755
Delta        =         1^ 30' 00.00" (LT)
Degree       =         2^ 00' 00.00"
Tangent      =              37.5021
Length       =              75.0000
Radius       =           2,864.7889
External     =               0.2455
Long Chord   =              74.9979
Mid. Ord.    =               0.2454
P.C.  Station        1040+39.3669  N     7,059,734.1153  E     2,337,290.1095
P.T.  Station        1041+14.3669  N     7,059,738.3908  E     2,337,364.9854
C.C.                               N     7,062,598.1380  E     2,337,164.2451
Back         = N  87^ 28' 54.84" E
Ahead        = N  85^ 58' 54.84" E
Chord Bear   = N  86^ 43' 54.84" E

Course from PT WBR26-2 to PC WBR26-3  N 85^ 58' 54.84" E         Dist 369.9339

                                  Curve Data
                                 *----------*
Curve WBR26-3
P.I.  Station        1045+84.3414  N     7,059,771.3227  E     2,337,833.8048
Delta        =         4^ 00' 00.00" (RT)
Degree       =         2^ 00' 00.00"
Tangent      =             100.0406
Length       =             200.0000
Radius       =           2,864.7890
External     =               1.7462
Long Chord   =             199.9594
Mid. Ord.    =               1.7452
P.C.  Station        1044+84.3008  N     7,059,764.3127  E     2,337,734.0100
P.T.  Station        1046+84.3008  N     7,059,771.3543  E     2,337,933.8454
C.C.                               N     7,056,906.5655  E     2,337,934.7504
Back         = N  85^ 58' 54.84" E
Ahead        = N  89^ 58' 54.84" E
Chord Bear   = N  87^ 58' 54.84" E

================================================================================
Ending chain WBR26 description
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RAMP WBR36 DATA

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Beginning chain WBR36 description
================================================================================

                                  Curve Data
                                 *----------*
Curve WBR36-1
P.I.  Station        1077+20.0049  N     7,059,772.3147  E     2,340,973.9217
Delta        =         4^ 00' 00.00" (RT)
Degree       =         2^ 00' 00.00"
Tangent      =             100.0406
Length       =             200.0000
Radius       =           2,864.7890
External     =               1.7462
Long Chord   =             199.9594
Mid. Ord.    =               1.7452
P.C.  Station        1076+19.9643  N     7,059,772.2831  E     2,340,873.8811
P.T.  Station        1078+19.9643  N     7,059,765.3677  E     2,341,073.7209
C.C.                               N     7,056,907.4942  E     2,340,874.7861
Back         = N  89^ 58' 54.84" E
Ahead        = S  86^ 01' 05.16" E
Chord Bear   = S  88^ 01' 05.16" E

Course from PT WBR36-1 to PC WBR36-2  S 86^ 01' 05.16" E         Dist 629.3348

                                  Curve Data
                                 *----------*
Curve WBR36-2
P.I.  Station        1084+88.4465  N     7,059,718.9474  E     2,341,740.5894
Delta        =         1^ 33' 56.88" (LT)
Degree       =         2^ 00' 00.00"
Tangent      =              39.1475
Length       =              78.2901
Radius       =           2,864.7890
External     =               0.2675
Long Chord   =              78.2876
Mid. Ord.    =               0.2674
P.C.  Station        1084+49.2991  N     7,059,721.6659  E     2,341,701.5365
P.T.  Station        1085+27.5891  N     7,059,717.2971  E     2,341,779.7021
C.C.                               N     7,062,579.5393  E     2,341,900.4712
Back         = S  86^ 01' 05.16" E
Ahead        = S  87^ 35' 02.04" E
Chord Bear   = S  86^ 48' 03.60" E
```

RAMP WBR36 DATA (CONTINUED)

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Course from PT WBR36-2 to PC WBR36-3  S 87^ 35' 02.04" E         Dist 372.7445

                                  Curve Data
                                 *----------*
Curve WBR36-3
P.I.  Station        1090+38.2446  N     7,059,695.7697  E     2,342,289.9036
Delta        =         5^ 30' 43.86" (LT)
Degree       =         2^ 00' 00.00"
Tangent      =             137.9110
Length       =             275.6091
Radius       =           2,864.7890
External     =               3.3176
Long Chord   =             275.5029
Mid. Ord.    =               3.3138
P.C.  Station        1089+00.3336  N     7,059,701.5835  E     2,342,152.1152
P.T.  Station        1091+75.9428  N     7,059,703.2184  E     2,342,427.6132
C.C.                               N     7,062,563.8258  E     2,342,272.8844
Back         = S  87^ 35' 02.04" E
Ahead        = N  86^ 54' 14.10" E
Chord Bear   = N  89^ 39' 36.03" E

================================================================================
Ending chain WBR36 description
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RAMP WBR46 DATA

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Beginning chain WBR46 description
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                                  Curve Data
                                 *----------*
Curve WBR46-1
P.I.  Station        1099+49.9950  N     7,059,744.8612  E     2,343,197.5003
Delta        =         4^ 00' 00.00" (LT)
Degree       =         2^ 00' 00.00"
Tangent      =             100.0406
Length       =             200.0000
Radius       =           2,864.7890
External     =               1.7462
Long Chord   =             199.9594
Mid. Ord.    =               1.7452
P.C.  Station        1098+49.9544  N     7,059,739.4579  E     2,343,097.6057
P.T.  Station        1100+49.9544  N     7,059,757.2196  E     2,343,296.7746
C.C.                               N     7,062,600.0653  E     2,342,942.8768
Back         = N  86^ 54' 14.10" E
Ahead        = N  82^ 54' 14.10" E
Chord Bear   = N  84^ 54' 14.10" E

Course from PT WBR46-1 to PC WBR46-2  N 82^ 54' 14.10" E         Dist 80.2871

                                  Curve Data
                                 *----------*
Curve WBR46-2
P.I.  Station        1101+84.0200  N     7,059,773.7812  E     2,343,429.8134
Delta        =         2^ 09' 03.20" (LT)
Degree       =         2^ 00' 00.00"
Tangent      =              53.7785
Length       =             107.5444
Radius       =           2,864.7890
External     =               0.5047
Long Chord   =             107.5381
Mid. Ord.    =               0.5046
P.C.  Station        1101+30.2415  N     7,059,767.1377  E     2,343,376.4468
P.T.  Station        1102+37.7859  N     7,059,782.4229  E     2,343,482.8931
C.C.                               N     7,062,609.9835  E     2,343,022.5490
Back         = N  82^ 54' 14.10" E
Ahead        = N  80^ 45' 10.90" E
Chord Bear   = N  81^ 49' 42.50" E

Course from PT WBR46-2 to PC WBR46-3  N 80^ 45' 10.90" E         Dist 657.2502

                                  Curve Data
                                 *----------*
Curve WBR46-3
P.I.  Station        1110+57.9608  N     7,059,914.2171  E     2,344,292.4097
Delta        =         6^ 30' 35.91" (RT)
Degree       =         2^ 00' 00.00"
Tangent      =             162.9247
Length       =             325.4988
Radius       =           2,864.7890
External     =               4.6291
Long Chord   =             325.3238
Mid. Ord.    =               4.6217
P.C.  Station        1108+95.0361  N     7,059,888.0367  E     2,344,131.6022
P.T.  Station        1112+20.5349  N     7,059,921.9970  E     2,344,455.1485
C.C.                               N     7,057,060.4760  E     2,344,591.9463
Back         = N  80^ 45' 10.90" E
Ahead        = N  87^ 15' 46.82" E
Chord Bear   = N  84^ 00' 28.86" E

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Ending chain WBR46 description
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TEXAS DEPARTMENT OF TRANSPORTATION

DALLAS DISTRICT
WILLIAM L. HALE, P.E., DISTRICT ENGINEER

STATE HIGHWAY 114
DESIGN SCHEMATIC
FROM FM 156 TO IH 35W
DENTON COUNTY
PROJECT LENGTH: 2.888 MI.

CONTROL : 0353–02–062
PROJECT LIMITS: FROM 0.45 Mi. WEST OF FM 156
TO 0.21 Mi. EAST OF IH35W
STA. 975+00.00 TO STA. 978+00.00
FUNCTIONAL CLASS: RURAL PRINCIPAL ARTERIAL
STA. 978+00.00 TO STA. 1127+50.00
FUNCTIONAL CLASS: URBAN PRINCIPAL ARTERIAL
DESIGN SPEED: 70 mph MAINLANES
DESIGN SPEED: 40 mph FRONTAGE ROADS
DESIGN SPEED: 50 mph RAMPS
ROLL 1 OF 2

SCALE: 1″=100′ H, 1″=10′ V

JULY, 2006

Halff Associates
ENGINEERS . ARCHITECTS . SCIENTISTS . PLANNERS . SURVEYORS

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