Roll 11 of 13

Texas Department of Transportation

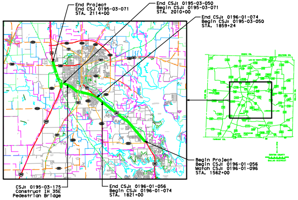
Dallas District Design Schematic

William L. Hale, P.E., District Engineer

IH 35E

From: FM 2181 S. in Corinth
To: US 380
Denton County
Functional Class: Interstate
Project Length: 10.45 Miles
CSJ's: 0196-01-056
0196-01-074
0195-03-050
0195-03-071
0195-03-075

Design Speed:
Mainlanes 70 mph
Managed Lanes 70 mph
Ramps 40 mph
IH 35W Connections to IH 35 60 mph
Direct Connecting Ramps PDCNWSE & PDCNESW 40 mph
U-Turns 20 mph
Frontage Roads 40 mph
Cross Streets 30 mph


End Project
End CSJ 0195-03-071
STA. 2114+00
End CSJ: 0195-03-050
Begin CSJ: 0195-03-071
STA. 2010+00
End CSJ: 0196-01-074
Begin CSJ: 0195-03-050
STA. 1859+24
Begin Project
Begin CSJ: 0196-01-056
Match CSJ: 0196-01-096
STA. 1562+00
CSJ: 0195-03-175
Construct IH 35E
Pedestrian Bridge
End CSJ: 0196-01-056
Begin CSJ: 0196-01-074
STA. 1821+00

Scale:
Horizontal 1"=200'
Vertical 1"=20'

November 2010
Roll 11 of 13

SCHEMATIC PREPARED BY:

HALFF ASSOCIATES, INC.
REGISTRATION NUMBER 312

FOR INTERIM REVIEW ONLY
NOT FOR PERMITTING, BIDDING
OR CONSTRUCTION.

Prepared by or under the
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11-24-2010
DATE

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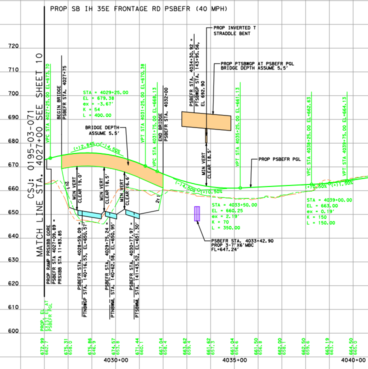
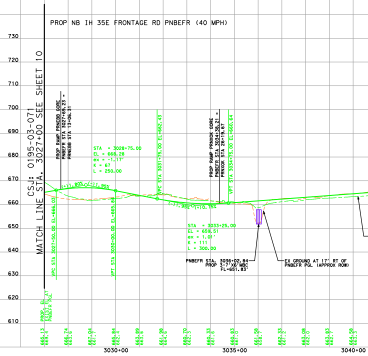
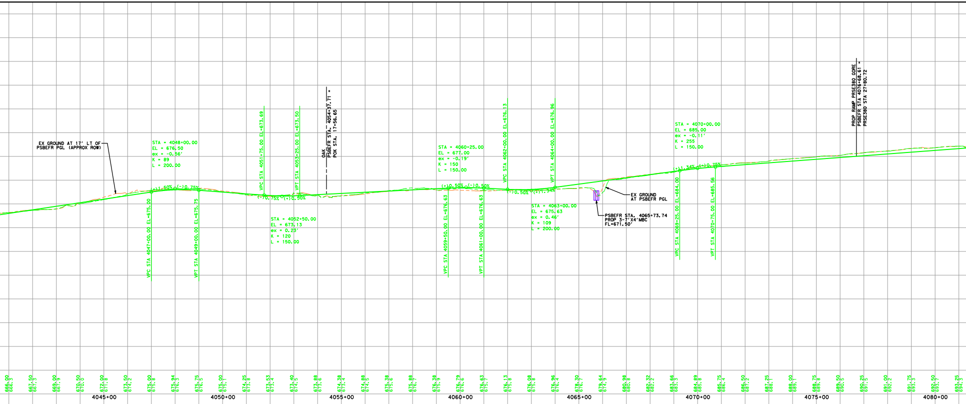
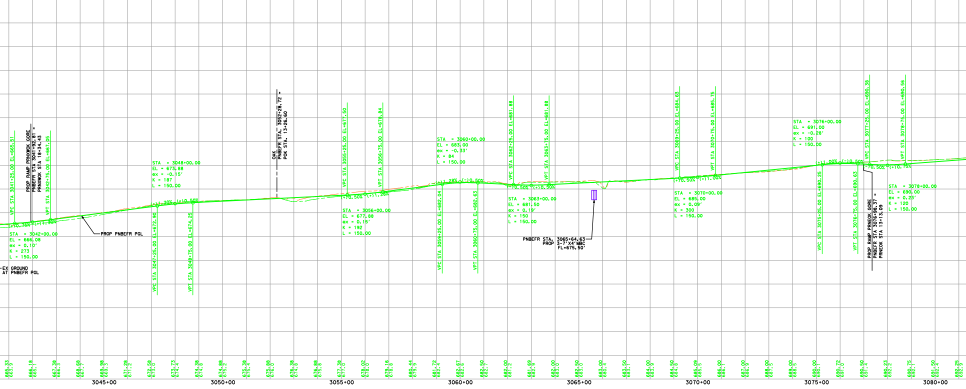
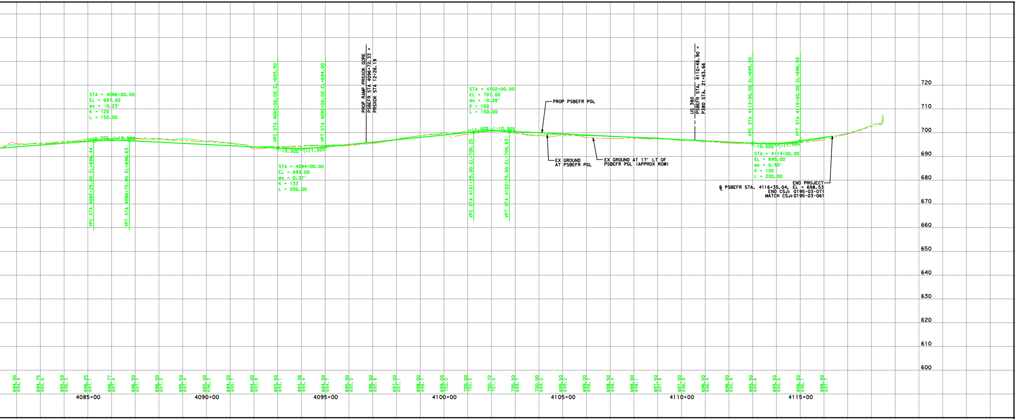
PRELIMINARY
SUBJECT TO CHANGE

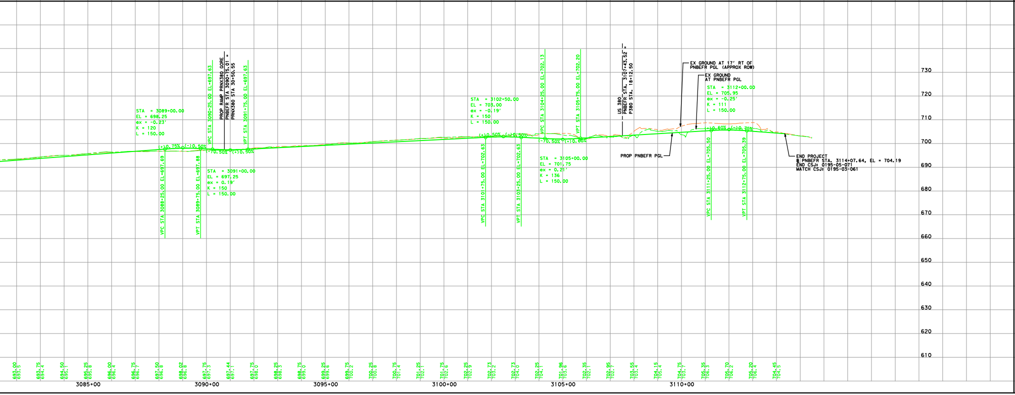

PROP SB IH 35E FRONTAGE RD PSBEFR (40 MPH)
CSJ: 0195-03-071
MATCH LINE STA. 4027+00 SEE SHEET 10
720
710
700
690
680
670
660
650
640
630
620
610
600
VPC STA 4027+25.00 EL=673.70
BEGIN BRIDGE
PSBEFR STA. 4027+75
STA = 4029+25.00
EL = 679.38
ex = -3.67'
K = 54
L = 400.00
BRIDGE DEPTH ASSUME 5.5'
(+)2.84%
(-)4.50%
VPT STA 4031+25.00 EL=670.38
VPC STA 4031+75.00 EL=668.13
END BRIDGE
PSBEFR STA. 4032+00
PSBEFR STA. 4034+30.92 = PTSBWGP STA. 143+95.56, EL 692.90
PROP INVERTED T STRADDLE BENT
PROP PTSBWGP AT PSBEFR PGL
BRIDGE DEPTH ASSUME 5.5'
MIN VERT CLEAR 19.0'
MIN VERT CLEAR 18.5'
MIN VERT CLEAR 16.6'
MIN VERT CLEAR 18.5'
1:2
2:1
PROP RAMP PRSXBB GORE
PSBEFR STA 4027+09.89 = PRSXBB STA 11+83.85
PSBEFR STA. 4028+59.09 = PTNBWGP STA. 140+16.53, EL=650.57'
PSBEFR STA. 4029+75.24 = PTNBWML STA. 140+62.58, EL=650.95'
PSBEFR STA. 4030+77.97 = PTSBWML STA. 141+43.52, EL=651.30'
(-)4.50%
(+)0.50%
STA = 4033+50.00
EL = 660.25
ex = 2.19'
K = 70
L = 350.00
PSBEFR STA. 4033+42.90
PROP 3-7'X6'MBC
FL=647.24'
VPT STA 4035+25.00 EL=661.13
PROP PSBEFR PGL
VPC STA 4038+25.00 EL=662.63
VPT STA 4039+75.00 EL=664.13
(+)0.50%
(+)1.50%
STA = 4039+00.00
EL = 663.00
ex = 0.19'
K = 150
L = 150.00
PROP. EL
EXIST EL AT PSBEFR PGL
672.99 662.7
675.31 658.0
675.86 646.9
674.57 653.8
671.44 660.1
667.04 658.4
663.62 659.4
661.62 657.3
661.04 656.6
661.50 656.8
662.00 658.1
662.50 659.6
663.19 663.2
664.50 665.0
4030+00
4035+00
4040+00


PROP NB IH 35E FRONTAGE RD PNBEFR (40 MPH)
CSJ: 0195-03-071
MATCH LINE STA. 3027+00 SEE SHEET 10
730
720
710
700
690
680
670
660
650
640
630
620
610
PROP RAMP PRNEBB GORE
PNBEFR STA 3027+69.23 = PRNEBB STA 13+06.31
STA = 3028+75.00
EL = 668.28
ex = -1.17'
K = 67
L = 250.00
(+)1.80%
(-)1.95%
VPC STA 3027+50.00 EL=666.03
VPT STA 3030+00.00 EL=665.84
VPC STA 3031+75.00 EL=662.43
(-)1.95%
(+)0.75%
STA = 3033+25.00
EL = 659.51
ex = 1.01'
K = 111
L = 300.00
PROP RAMP PRNXOK GORE
PNBEFR STA 3034+38.21 = PRNXOK STA 26+19.67
VPT STA 3034+75.00 EL=660.64
PNBEFR STA. 3036+02.84
PROP 3-7'X6'MBC
FL=651.83'
EX GROUND AT 17' RT OF PNBEFR PGL (APPROX ROW)
PROP. EL
EXIST EL AT PNBEFR PGL
665.13 669.4
666.74 663.6
667.04 661.7
665.84 662.4
663.89 663.6
661.98 664.6
660.70 662.3
660.33 661.6
660.83 661.0
661.58 658.7
662.33 661.2
663.08 662.0
663.83 662.7
664.58 663.3
3030+00
3035+00
3040+00

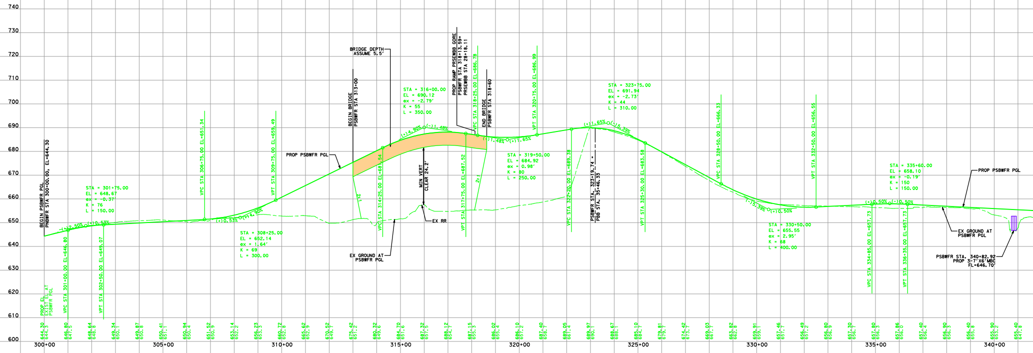

EX GROUND AT 17' LT OF PSBEFR PGL (APPROX ROW)
STA = 4048+00.00
EL = 676.50
ex = -0.56'
K = 89
L = 200.00
(+)1.50%
(-)0.75%
VPC STA 4047+00.00 EL=675.00
VPT STA 4049+00.00 EL=675.75
VPC STA 4051+75.00 EL=673.69
VPT STA 4053+25.00 EL=673.50
(-)0.75%
(+)0.50%
STA = 4052+50.00
EL = 673.13
ex = 0.23'
K = 120
L = 150.00
OAK
PSBEFR STA. 4054+37.71 =
POK STA. 17+56.65
STA = 4060+25.00
EL = 677.00
ex = -0.19'
K = 150
L = 150.00
(+)0.50%
(-)0.50%
VPC STA 4059+50.00 EL=676.63
VPT STA 4061+00.00 EL=676.63
VPC STA 4062+00.00 EL=676.13
VPT STA 4064+00.00 EL=676.96
(-)0.50%
(+)1.34%
STA = 4063+00.00
EL = 675.63
ex = 0.46'
K = 109
L = 200.00
EX GROUND AT PSBEFR PGL
PSBEFR STA. 4065+73.74
PROP 3-7'X4'MBC
FL=671.50'
STA = 4070+00.00
EL = 685.00
ex = -0.11'
K = 255
L = 150.00
(+)1.34%
(+)0.75%
VPC STA 4069+25.00 EL=684.00
VPT STA 4070+75.00 EL=685.56
PROP RAMP PRSE38D GORE
PSBEFR STA 4076+68.61 =
PRSE38D STA 27+80.72
666.00 666.3
667.50 667.3
669.00 667.9
670.50 670.0
672.00 671.8
673.50 674.2
675.00 675.8
675.94 676.3
675.75 676.5
675.00 675.1
674.25 673.8
673.53 673.4
673.40 674.5
673.88 673.6
674.38 673.4
674.88 674.5
675.38 675.6
675.88 676.7
676.38 675.9
676.79 676.6
676.63 675.7
676.13 675.8
676.08 675.8
676.96 676.4
678.30 676.7
679.64 674.9
680.98 680.8
682.32 682.2
683.66 683.3
684.89 685.8
685.75 686.4
686.50 687.2
687.25 688.1
688.00 689.1
688.75 689.8
689.50 690.5
690.25 691.5
691.00 692.2
691.75 693.3
692.50 693.7
693.25 694.3
4045+00
4050+00
4055+00
4060+00
4065+00
4070+00
4075+00
4080+00


VPC STA 3041+25.00 EL=665.51
PROP RAMP PRNXWOK GORE
PNBEFR STA 3041+92.81 =
PRNXWOK STA 18+34.43
VPT STA 3042+75.00 EL=667.05
(+)0.75%
(+)1.30%
STA = 3042+00.00
EL = 666.08
ex = 0.10'
K = 273
L = 150.00
EX GROUND AT PNBEFR PGL
PROP PNBEFR PGL
STA = 3048+00.00
EL = 673.88
ex = -0.15'
K = 187
L = 150.00
(+)1.30%
(+)0.50%
VPC STA 3047+25.00 EL=672.90
VPT STA 3048+75.00 EL=674.25
OAK
PNBEFR STA. 3052+28.72 =
POK STA. 13+26.60
VPC STA 3055+25.00 EL=677.50
VPT STA 3056+75.00 EL=678.84
(+)0.50%
(+)1.28%
STA = 3056+00.00
EL = 677.88
ex = 0.15'
K = 192
L = 150.00
STA = 3060+00.00
EL = 683.00
ex = -0.33'
K = 84
L = 150.00
(+)1.28%
(-)0.50%
VPC STA 3059+25.00 EL=682.04
VPT STA 3060+75.00 EL=682.63
VPC STA 3062+25.00 EL=681.88
VPT STA 3063+75.00 EL=681.88
(-)0.50%
(+)0.50%
STA = 3063+00.00
EL = 681.50
ex = 0.19'
K = 150
L = 150.00
PNBEFR STA. 3065+64.63
PROP 3-7'X4'MBC
FL=675.50'
VPC STA 3069+25.00 EL=684.63
VPT STA 3070+75.00 EL=685.75
(+)0.50%
(+)1.00%
STA = 3070+00.00
EL = 685.00
ex = 0.09'
K = 300
L = 150.00
STA = 3076+00.00
EL = 691.00
ex = -0.28'
K = 100
L = 150.00
(+)1.00%
(-)0.50%
VPC STA 3075+25.00 EL=690.25
VPT STA 3076+75.00 EL=690.63
VPC STA 3077+25.00 EL=690.38
VPT STA 3078+75.00 EL=690.56
(-)0.50%
(+)0.75%
PROP RAMP PRNEOK GORE
PNBEFR STA 3076+98.37 =
PRNEOK STA 13+13.09
STA = 3078+00.00
EL = 690.00
ex = 0.23'
K = 120
L = 150.00
665.33 663.9
666.18 665.1
667.38 666.3
668.68 667.7
669.98 669.3
671.28 671.2
672.58 673.0
673.73 674.4
674.38 674.8
674.88 675.2
675.38 675.4
675.88 676.0
676.38 674.8
676.88 675.8
677.38 677.0
678.02 678.0
679.16 678.8
680.44 679.9
681.72 682.4
682.67 682.6
682.50 682.7
682.50 682.7
682.00 681.2
681.69 682.9
682.00 683.0
682.50 683.0
683.00 680.4
683.50 683.1
684.00 683.9
684.50 684.8
685.09 685.5
686.00 686.1
687.00 686.9
688.00 687.5
689.00 688.5
690.00 690.1
690.72 691.0
690.50 691.4
690.23 692.2
690.75 692.1
691.50 692.4
692.25 692.9
3045+00
3050+00
3055+00
3060+00
3065+00
3070+00
3075+00
3080+00

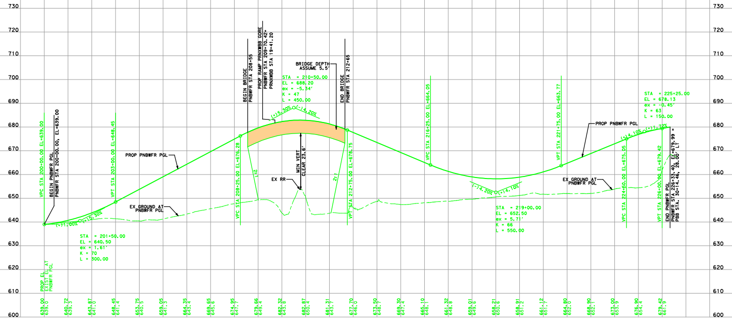

STA = 4086+00.00
EL = 697.00
ex = -0.23'
K = 120
L = 150.00
(+)0.75%
(-)0.50%
VPC STA 4085+25.00 EL=696.44
VPT STA 4086+75.00 EL=696.63
VPC STA 4093+00.00 EL=693.50
VPT STA 4095+00.00 EL=694.00
(-)0.50%
(+)1.00%
STA = 4094+00.00
EL = 693.00
ex = 0.37'
K = 133
L = 200.00
PROP RAMP PRSXOK GORE
PSBEFR STA 4096+72.33 =
PRSXOK STA 12+26.19
STA = 4102+00.00
EL = 701.00
ex = -0.28'
K = 100
L = 150.00
(+)1.00%
(-)0.50%
VPC STA 4101+25.00 EL=700.25
VPT STA 4102+75.00 EL=700.63
PROP PSBEFR PGL
EX GROUND AT PSBEFR PGL
EX GROUND AT 17' LT OF PSBEFR PGL (APPROX ROW)
US 380
PSBEFR STA. 4110+48.90 =
P380 STA. 21+63.66
VPC STA 4113+00.00 EL=695.50
VPT STA 4115+00.00 EL=696.50
(-)0.50%
(+)1.50%
STA = 4114+00.00
EL = 695.00
ex = 0.50'
K = 100
L = 200.00
END PROJECT
℄ PSBEFR STA. 4116+35.04, EL = 698.53
END CSJ: 0195-03-071
MATCH CSJ: 0195-03-061
720
710
700
690
680
670
660
650
640
630
620
610
600
694.00 694.9
694.75 695.6
695.50 696.3
696.25 697.1
696.77 697.4
696.50 697.7
696.00 697.5
695.50 697.4
695.00 696.3
694.50 695.7
694.00 693.8
693.50 694.1
693.38 694.4
694.00 694.7
695.00 695.0
696.00 695.8
697.00 697.1
698.00 698.7
699.00 700.0
700.00 700.5
700.72 701.0
700.50 699.7
700.00 699.0
699.50 699.2
699.00 698.7
698.50 698.4
698.00 698.1
697.50 697.8
697.00 696.9
696.50 696.4
696.00 695.9
695.50 695.6
695.50 695.6
696.50 696.1
698.00 697.7
4085+00
4090+00
4095+00
4100+00
4105+00
4110+00
4115+00


STA = 3089+00.00
EL = 698.25
ex = -0.23'
K = 120
L = 150.00
(+)0.75%
(-)0.50%
VPC STA 3088+25.00 EL=697.69
VPT STA 3089+75.00 EL=697.88
VPC STA 3090+25.00 EL=697.63
PROP RAMP PRNX380 GORE
PNBEFR STA 3090+75.01 =
PRNX380 STA 30+50.55
VPT STA 3091+75.00 EL=697.63
(-)0.50%
(+)0.50%
STA = 3091+00.00
EL = 697.25
ex = 0.19'
K = 150
L = 150.00
STA = 3102+50.00
EL = 703.00
ex = -0.19'
K = 150
L = 150.00
(+)0.50%
(-)0.50%
VPC STA 3101+75.00 EL=702.63
VPT STA 3103+25.00 EL=702.63
VPC STA 3104+25.00 EL=702.13
VPT STA 3105+75.00 EL=702.20
(-)0.50%
(+)0.60%
STA = 3105+00.00
EL = 701.75
ex = 0.21'
K = 136
L = 150.00
US 380
PNBEFR STA. 3107+43.52 =
P380 STA. 18+12.50
PROP PNBEFR PGL
EX GROUND AT 17' RT OF PNBEFR PGL (APPROX ROW)
EX GROUND AT PNBEFR PGL
STA = 3112+00.00
EL = 705.95
ex = -0.25'
K = 111
L = 150.00
(+)0.60%
(-)0.75%
VPC STA 3111+25.00 EL=705.50
VPT STA 3112+75.00 EL=705.39
END PROJECT
℄ PNBEFR STA. 3114+07.64, EL = 704.19
END CSJ: 0195-05-071
MATCH CSJ: 0195-03-061
730
720
710
700
690
680
670
660
650
640
630
620
610
693.00 693.5
693.75 694.4
694.50 695.1
695.25 695.8
696.00 696.4
696.75 696.7
697.50 696.8
698.02 696.8
697.75 697.3
697.44 697.1
697.75 698.0
698.25 698.3
698.75 699.0
699.25 699.6
699.75 700.2
700.25 700.8
700.75 701.4
701.25 702.1
701.75 702.6
702.25 702.9
702.73 703.2
702.73 704.0
702.25 704.1
701.96 703.6
702.35 702.1
702.95 702.7
703.55 703.4
704.15 705.4
704.75 705.7
705.35 706.3
705.70 706.2
705.20 706.4
704.45 704.5
3085+00
3090+00
3095+00
3100+00
3105+00
3110+00

SB IH 35W FRONTAGE ROAD PSBWFR (40MPH)


740
730
720
710
700
690
680
670
660
650
640
630
620
610
600
BEGIN PSBWFR PGL
PNBWFR STA 300+00.00, EL=644.30
(+)2.50%
(+)0.53%
STA = 301+75.00
EL = 648.67
ex = -0.37'
K = 76
L = 150.00
VPC STA 301+00.00 EL=646.80
VPT STA 302+50.00 EL=649.07
VPC STA 306+75.00 EL=651.34
VPT STA 309+75.00 EL=659.49
(+)0.53%
(+)4.90%
STA = 308+25.00
EL = 652.14
ex = 1.64'
K = 69
L = 300.00
PROP PSBWFR PGL
BEGIN BRIDGE
PSBWFR STA 313+00
BRIDGE DEPTH
ASSUME 5.5'
STA = 316+00.00
EL = 690.12
ex = -2.79'
K = 55
L = 350.00
(+)4.90%
(-)1.48%
VPC STA 314+25.00 EL=681.54
2:1
MIN VERT
CLEAR 24.2'
EX RR
EX GROUND AT
PSBWFR PGL
PROP RAMP PRSEWBB GORE
PSBWFR STA 318+13.59=
PRSEWBB STA 28+18.11
VPC STA 318+25.00 EL=686.78
VPT STA 317+75.00 EL=687.52
END BRIDGE
PSBWFR STA 318+60
2:1
(-)1.48%
(+)1.65%
STA = 319+50.00
EL = 684.92
ex = 0.98'
K = 80
L = 250.00
VPT STA 320+75.00 EL=686.99
STA = 323+75.00
EL = 691.94
ex = -2.73'
K = 44
L = 310.00
(+)1.65%
(-)5.39%
VPC STA 322+20.00 EL=689.38
PSBWFR STA. 323+19.74 =
PBB STA. 35+46.33
VPT STA 325+30.00 EL=683.58
VPC STA 328+50.00 EL=666.33
VPT STA 332+50.00 EL=656.55
(-)5.39%
(+)0.50%
STA = 330+50.00
EL = 655.55
ex = 2.95'
K = 68
L = 400.00
STA = 335+60.00
EL = 658.10
ex = -0.19'
K = 150
L = 150.00
(+)0.50%
(-)0.50%
VPC STA 334+85.00 EL=657.73
VPT STA 336+35.00 EL=657.73
PROP PSBWFR PGL
EX GROUND AT
PSBWFR PGL
PSBWFR STA. 340+82.92
PROP 3-7'X6'MBC
FL=646.70'
PROP EL
EXIST EL AT
PSBWFR PGL
644.30 644.3
646.80 647.5
648.64 648.8
649.34 650.1
649.87 650.8
650.41 651.1
650.94 650.4
651.52 650.9
653.14 652.2
656.23 653.3
660.72 652.8
665.62 652.9
670.52 649.7
675.42 651.2
680.32 649.6
684.70 651.6
687.32 651.5
688.12 654.7
687.15 655.3
686.02 655.4
686.10 657.2
687.40 658.7
689.05 661.4
689.97 690.1
688.67 688.1
685.10 684.7
679.81 679.7
674.42 673.7
669.03 667.7
663.82 662.8
659.91 659.1
657.46 657.7
656.49 657.2
656.80 656.9
657.30 656.7
657.80 656.3
657.86 656.0
657.40 656.4
656.90 656.3
656.40 655.8
655.90 653.2
655.40 647.8
300+00
305+00
310+00
315+00
320+00
325+00
330+00
335+00
340+00

NB IH 35W FRONTAGE ROAD PNBWFR (40MPH)


730
720
710
700
690
680
670
660
650
640
630
620
610
600
VPC STA 200+00.00 EL=639.00
BEGIN PNBWFR PGL
PNBWFR STA 200+00.00, EL=639.00
(+)1.00%
(+)15.30%
STA = 201+50.00
EL = 640.50
ex = 1.61'
K = 70
L = 300.00
VPT STA 203+00.00 EL=648.45
PROP PNBWFR PGL
EX GROUND AT
PNBWFR PGL
VPC STA 208+25.00 EL=676.28
BEGIN BRIDGE
PNBWFR STA 208+55
PROP RAMP PRNXWBB GORE
PNBWFR STA 209+70.42=
PRNXWBB STA 19+41.20
BRIDGE DEPTH
ASSUME 5.5'
STA = 210+50.00
EL = 688.20
ex = -5.34'
K = 47
L = 450.00
(+)5.30%
(-)4.20%
2:1
MIN VERT
CLEAR 23.6'
EX RR
2:1
END BRIDGE
PNBWFR STA 212+65
VPT STA 212+75.00 EL=678.75
VPC STA 216+25.00 EL=664.05
(-)4.20%
(+)4.10%
STA = 219+00.00
EL = 652.50
ex = 5.71'
K = 66
L = 550.00
VPT STA 221+75.00 EL=663.77
PROP PNBWFR PGL
EX GROUND AT
PNBWFR PGL
STA = 225+25.00
EL = 678.13
ex = -0.45'
K = 63
L = 150.00
(+)4.10%
(+)1.72%
VPC STA 224+50.00 EL=675.05
VPT STA 226+00.00 EL=679.42
END PNBWFR PGL
PNBWFR STA 226+33.40, EL=679.99 =
PBB STA. 30+14.46, 28.00' LT
PROP EL
EXIST EL AT
PNBWFR PGL
639.00 639.0
640.72 639.3
643.87 641.0
648.45 641.4
653.75 640.5
659.05 641.3
664.35 643.4
669.65 645.6
674.95 647.7
679.66 649.4
682.32 643.8
682.87 650.4
681.31 643.7
677.70 646.0
673.50 648.7
669.30 647.4
665.10 648.1
661.32 648.8
659.01 649.6
658.21 650.6
658.91 651.2
661.12 651.7
664.80 652.0
668.90 652.1
673.00 653.9
676.90 654.4
679.42 661.9
730
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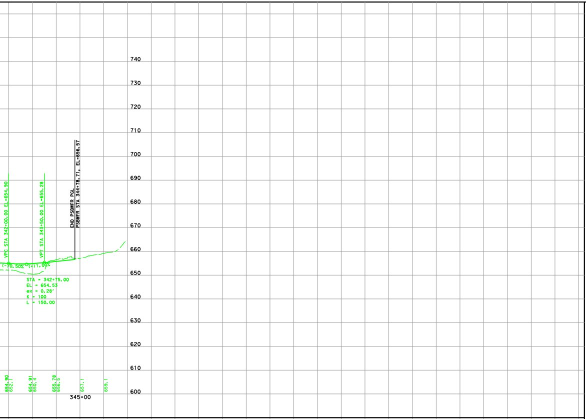

740
730
720
710
700
690
680
670
660
650
640
630
620
610
600
VPC STA 342+00.00 EL=654.90
VPT STA 343+50.00 EL=655.28
END PSBWFR PGL
PSBWFR STA 344+78.71, EL=656.57
(-)0.50%
(+)1.00%
STA = 342+75.00
EL = 654.53
ex = 0.28'
K = 100
L = 150.00
654.90
652.1
654.91
650.4
655.78
656.5
657.1
659.1
345+00

PRELIMINARY
SUBJECT TO CHANGE

Texas Department of Transportation

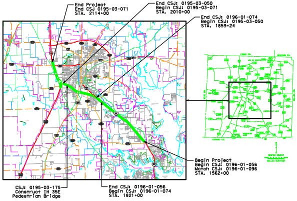
Dallas District Design Schematic

William L. Hale, P.E., District Engineer

IH 35E

From: FM 2181 S. in Corinth
To: US 380
Denton County
Functional Class: Interstate
Project Length: 10.45 Miles
CSJ's: 0196-01-056
0196-01-074
0195-03-050
0195-03-071
0195-03-075

Design Speed:
Mainlanes 70 mph
Managed Lanes 70 mph
Ramps 40 mph
IH 35W Connections to IH 35 60 mph
Direct Connecting Ramps PDCNWSE & PDCNESW 40 mph
U-Turns 20 mph
Frontage Roads 40 mph
Cross Streets 30 mph


End Project
End CSJ 0195-03-071
STA. 2114+00
End CSJ: 0195-03-050
Begin CSJ: 0195-03-071
STA. 2010+00
End CSJ: 0196-01-074
Begin CSJ: 0195-03-050
STA. 1859+24
Begin Project
Begin CSJ: 0196-01-056
Match CSJ: 0196-01-096
STA. 1562+00
CSJ: 0195-03-175
Construct IH 35E
Pedestrian Bridge
End CSJ: 0196-01-056
Begin CSJ: 0196-01-074
STA. 1821+00

Scale:
Horizontal 1"=200'
Vertical 1"=20'

November 2010
Roll 11 of 13

SCHEMATIC PREPARED BY:

HALFF ASSOCIATES, INC.
REGISTRATION NUMBER 312

FOR INTERIM REVIEW ONLY
NOT FOR PERMITTING, BIDDING
OR CONSTRUCTION.

Prepared by or under the
Direct Supervision of:

NAME	P.E. NUMBER
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11-24-2010
DATE

HALFF

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