Texas Department of Transportation®

DALLAS DISTRICT
DRAFT INTERIM SCHEMATIC

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

IH 35E

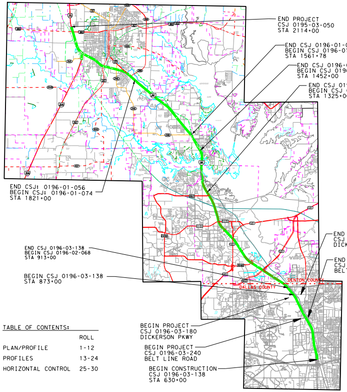
FROM: IH 635
TO: US 380

DALLAS & DENTON COUNTY

FUNCTIONAL CLASS: URBAN FREEWAY
PROJECT LENGTH: 28.25 MILES

CSJ's: 0196-03-138
0196-03-240
0196-03-180
0196-03-245
0196-02-068
0196-02-073
0196-01-096
0196-01-056
0196-01-074
0195-03-050
0195-03-071

DESIGN SPEEDS:
MAINLANES 70 MPH
MANAGED LANES 70 MPH
RAMPS 40 MPH
TURNAROUND RAMPS 20 MPH
FRONTAGE ROADS 40 MPH
CROSS STREETS 30 MPH
COLLECTOR DISTRIBUTOR 50 MPH
DIRECT CONNECTORS 50 MPH
INTERSECTIONS 30 MPH


END PROJECT
CSJ 0195-03-050
STA 2114+00
END CSJ 0196-01-096
BEGIN CSJ 0196-01-056
STA 1561+78
END CSJ 0196-02-073
BEGIN CSJ 0196-01-096
STA 1452+00
END CSJ 0196-02-068
BEGIN CSJ 0196-02-073
STA 1325+00
END CSJ: 0196-01-056
BEGIN CSJ: 0196-01-074
STA 1821+00
END PROJECT
CSJ 0196-03-180
DICKERSON PKWY
END PROJECT
CSJ 0196-03-240
BELT LINE ROAD
DENTON COUNTY
DALLAS COUNTY
END CSJ 0196-03-138
BEGIN CSJ 0196-02-068
STA 913+00
BEGIN CSJ 0196-03-138
STA 873+00
BEGIN PROJECT
CSJ 0196-03-180
DICKERSON PKWY
BEGIN PROJECT
CSJ 0196-03-240
BELT LINE ROAD
BEGIN CONSTRUCTION
CSJ 0196-03-138
STA 630+00

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PROFILES	13-24
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SCALE:
HORIZONTAL 1"=200'
VERTICAL 1"=20'

1/11/2013

ROLL 13 OF 30

SCHEMATIC PREPARED BY:

FOR INTERIM REVIEW ONLY
NOT FOR PERMITTING, BIDDING
OR CONSTRUCTION.
Prepared by or under the
Direct Supervision of:

SHAWN BRENT STOVER	109251
NAME	P.E. NUMBER

1/11/2013
DATE

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Plotted on: 10:12:16 AM

"PRELIMINARY SUBJECT TO CHANGE"
BASED ON FURTHER DEVELOPMENTS RESULTING
FROM PUBLIC INPUT AND TECHNICAL REVIEWS

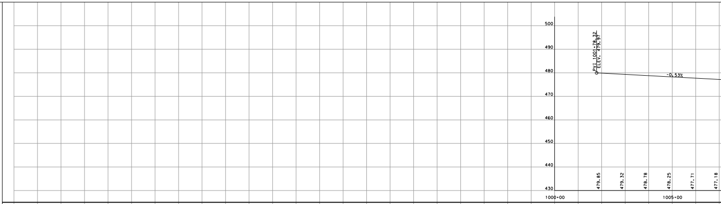
LEGEND:

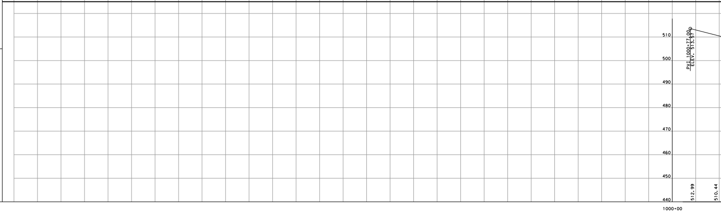
🟨	GENERAL PURPOSE LANES FULL RECONSTRUCTION	- - —	EXISTING ROW
⬜	REHABILITATE EXISTING PAVEMENT	- - —	PROPOSED ROW
🟥	MANAGED LANES	— - -	PROPOSED CENTERLINE/BASELINE
🟩	FRONTAGE ROADS/CROSS STREETS	- - -	PROPOSED RETAINING WALL
🟪	COLLECTOR DISTRIBUTOR	—	PROPOSED NOISE WALL
🟦	RAMPS/DIRECT CONNECTORS	—ıı—	CONTROL OF ACCESS
🟧	BRIDGES	▩	PAVEMENT REMOVAL
🟦	SHARED USE PATH	←③	NUMBER OF LANES (TRAFFIC DIRECTION)
		▨	POTENTIAL DISPLACEMENT
		●	PROPOSED GANTRY

NOTES:

1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON AERIAL SURVEYS DATED FEBRUARY 9, 2006 AND RECORD PLANS.
2. THE PROPOSED LOCATIONS OF THE ADA RAMPS AND SIDEWALKS INDICATED ON THIS PLAN ARE PRELIMINARY. THE EXACT LOCATIONS OF THESE SIDEWALKS WILL BE DETERMINED DURING THE PS&E DESIGN THROUGH COORDINATION BETWEEN TXDOT AND LOCAL GOVERNMENTS. THE FRONTAGE ROAD TYPICAL SECTION RESERVES A 6' WIDE CORRIDOR ADJACENT TO THE OUTSIDE CURB FOR FUTURE SIDEWALK LOCATIONS.
3. EXISTING DRIVEWAY LOCATIONS ARE NOT SHOWN IN PLAN. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING DETAILED DESIGN AND COORDINATION WITH THE CITIES; THE DRIVEWAY WILL BE A SAFETY ISSUE AND/OR IS LOCATED WITHIN ACCESS DENIAL LIMITS AS SHOWN.
4. ACCESS DENIAL LIMITS ARE DETERMINED BY PROVIDING SAFETY TO THE TRAVELING PUBLIC, MAINTAINING LEVEL OF SERVICE ON THE FRONTAGE ROADS AND MAINTAINING SAFE ACCESS TO ADJACENT PROPERTY OWNERS. ACCESS DENIAL LIMITS MAY BE ADJUSTED BY PROVIDING TRAFFIC IMPACT ANALYSIS (TIA) BY THE ADJACENT PROPERTY OWNERS AND AVOIDING LANDLOCK ISSUES AS LONG AS THE SAFETY TO THE TRAVELING PUBLIC IS NOT COMPROMISED.
5. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENTS IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE.
6. SUPER ELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
7. CURBS ON FRONTAGE ROADS AND CROSS STREETS ARE TYPE II UNLESS NOTED OTHERWISE.

50 MPH DESIGN


500
490
480
470
460
450
440
430
PVI 1001+78.32
ELEV. 479.97
-0.53%
479.85
479.32
478.78
478.25
477.71
477.18
1000+00
1005+00


510
500
490
480
470
460
450
440
PVI 1000+77.00
ELEV. 513.57
512.99
510.44
1000+00

8. DIMENSIONS ARE TO FACE OF CURB OR TO THE EDGE OF UNCURBED PAVEMENT UNLESS NOTED OTHERWISE.

9. PROPOSED CROSS STREET SECTIONS ARE BASED ON CITY THOROUGHFARE PLANS.

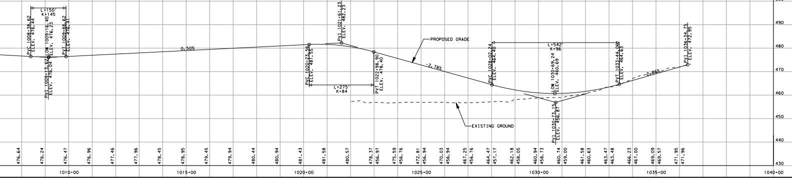
10. TYPICAL CROSS STREET TURNOUT RADIUS EQUALS 75' TYPICAL, 50' MIN. UNLESS NOTED OTHERWISE.

11. RAMP HORIZONTAL CURVATURE BETWEEN PHYSICAL GORES IS SHOWN IN TABLE. TYPICAL FRONTAGE ROAD GORES UTILIZE A MINIMUM 3000' RADIUS. TYPICAL MAINLANE GORES UTILIZE A MINIMUM RADIUS OF 3000'. VARIATIONS FROM TYPICAL RADIUS' ARE NECESSARY IN LOCATIONS WITH OPERATIONAL WEAVING CONSTRAINTS OR WHEN THE RAMP GORE IS LOCATED WITHIN A HORIZONTAL CURVE ON THE CONTROLLING ROADWAY.

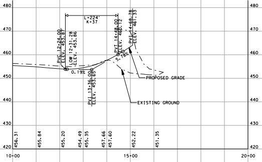
12. PROPOSED CULVERT SIZES SHOWN IN THE SCHEMATIC ARE SIZED BASED ON PRELIMINARY DRAINAGE ANALYSIS OF UPSTREAM DRAINAGE AREAS. A DETAILED DRAINAGE STUDY WILL BE PERFORMED PRIOR TO CONSTRUCTION TO FINALIZE THE PROPOSED CULVERT SIZES AND DESIGN. COORDINATION BETWEEN TXDOT, LOCAL GOVERNMENTS, AND ADJACENT PROPERTY OWNERS WILL BE PERFORMED DURING THIS DETAILED DESIGN PHASE. FOR PROPOSED CULVERTS THAT CONNECT TO EXISTING, ENCLOSED DOWNSTREAM DRAINAGE SYSTEMS LOCATED OFF OF TXDOT ROW; THE DETAILED DESIGN PHASE AND COORDINATION EFFORT WILL DETERMINE IF DOWNSTREAM ENCLOSED DRAINAGE SYSTEMS WILL BE IMPROVED AND IF ANY DRAINAGE EASEMENTS WILL NEED TO BE OBTAINED BY THE LOCAL GOVERNMENTS FOR IMPROVEMENT OF THESE SYSTEMS.

13. RAILROAD ALIGNMENTS AND PROFILES ARE SHOWN FOR REFERENCE ONLY IN DEVELOPING ROADWAY PROFILES. FINAL ALIGNMENTS AND PROFILES WILL BE DEVELOPED THROUGH COORDINATION WITH THE RAILROADS, TXDOT AND THE LOCAL GOVERNMENTS.

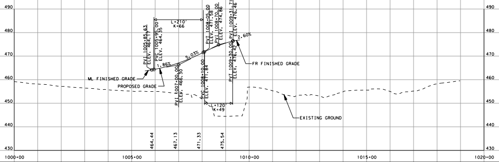
IH 35E SB DC TO EB IH 635 CONNECTOR "HC"
50 MPH DESIGN


L=150'
K=145
PVC 1008+38.62
ELEV. 476.44
LOW 1009+16.40
ELEV. 476.23
PVI 1009+13.62
ELEV. 476.04
PVT 1009+88.62
ELEV. 476.41
0.50%
PVC 1020+23.56
ELEV. 481.55
PVI 1021+61.23
ELEV. 482.23
L=275'
K=84
PVT 1022+98.90
ELEV. 478.40
PROPOSED GRADE
-2.78%
PVC 1028+02.24
ELEV. 464.40
L=542'
K=96
LOW 1030+69.24
ELEV. 460.69
PVI 1030+73.15
ELEV. 456.87
PVT 1033+44.06
ELEV. 464.63
-2.86%
PVI 1036+34.75
ELEV. 472.95
EXISTING GROUND
500
490
480
470
460
450
440
430
476.64
476.24
476.47
476.96
477.46
477.96
478.45
478.95
479.45
479.94
480.44
480.94
481.43
481.58
480.57
478.37
456.97
475.59
456.76
472.81
456.94
470.03
456.94
467.25
456.76
464.47
457.17
462.18
458.05
460.94
458.73
460.74
459.00
461.58
460.63
463.47
463.48
466.23
467.00
469.09
469.57
471.95
471.96
1010+00
1015+00
1020+00
1025+00
1030+00
1035+00
1040+00

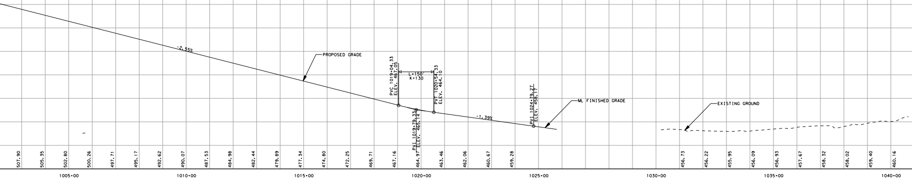
IH 35E SB ENTRANCE RAMP "CTA"
40 MPH DESIGN


L=224'
K=37
PVC 12+24.00
ELEV. 453.87
LOW 12+31.28
ELEV. 453.86
0.19%
PVI 13+36.00
ELEV. 453.65
PVT 14+48.00
ELEV. 460.12
5.78%
PVI 14+68.78
ELEV. 461.33
PROPOSED GRADE
EXISTING GROUND
480
470
460
450
440
430
420
456.31
455.84
455.20
454.49
455.35
457.66
457.60
452.22
451.35
10+00
15+00
20+00

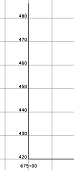
IH 35E NB EXIT RAMP "BQB"
40 MPH DESIGN

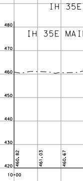

L=210'
K=66
PVI 1005+85.63
ELEV. 464.17
PVC 1005+95.00
ELEV. 464.35
1.86%
ML FINISHED GRADE
PROPOSED GRADE
PVI 1007+00.00
ELEV. 466.30
5.03%
PVC 1008+10.00
ELEV. 471.84
PVT 1008+05.00
ELEV. 471.58
PVI 1008+70.00
ELEV. 474.86
PVI 1009+31.71
ELEV. 476.46
2.60%
PVT 1009+30.00
ELEV. 476.42
L=120'
K=49
FR FINISHED GRADE
EXISTING GROUND
490
480
470
460
450
440
430
464.44
467.13
471.33
475.54
1000+00
1005+00
1010+00
1015+00
1020+00

IH 635 WB DC TO NB IH 35E CONNECTOR "HD"
50 MPH DESIGN

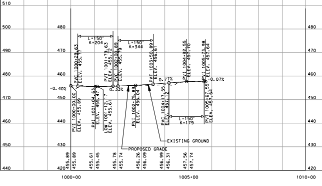

-2.55%
PROPOSED GRADE
PVC 1019+04.33
ELEV. 467.05
L=150'
K=130
PVT 1020+54.33
ELEV. 464.10
PVI 1019+79.33
ELEV. 465.14
-1.39%
PVI 1024+79.27
ELEV. 458.17
ML FINISHED GRADE
EXISTING GROUND
507.90
505.35
502.80
500.26
497.71
495.17
492.62
490.07
487.53
484.98
482.44
479.89
477.34
474.80
472.25
469.71
467.16
464.97
463.46
462.06
460.67
459.28
456.73
456.22
455.95
456.09
456.93
457.67
458.32
458.02
459.40
460.16
1005+00
1010+00
1015+00
1020+00
1025+00
1030+00
1035+00
1040+00

IH 35E NB EXIT RAMP "BQA"

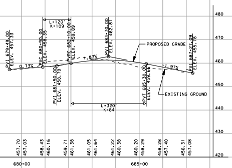




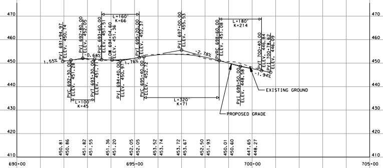
IH 635 WB DC TO NB IH 35E CONNECTOR "HE"
50 MPH DESIGN


510
500
490
480
470
460
450
440
480
470
460
450
440
430
420
L=150'
K=204
L=150'
K=344
L=150'
K=179
PVC 1000+29.63
ELEV. 455.77
PVT 1001+79.63
ELEV. 455.72
PVC 1002+00.89
ELEV. 455.79
PVT 1003+50.89
ELEV. 456.61
PVI 1004+92.55
ELEV. 457.70
PVI 1005+73.98
ELEV. 457.64
-0.40%
0.33%
0.77%
-0.07%
PVI 1000+00.00
ELEV. 455.89
PVI 1001+04.63
ELEV. 455.47
LOW 1001+12.17
ELEV. 455.61
PVI 1002+75.89
ELEV. 456.04
PVC 1004+17.55
ELEV. 457.12
PVT 1005+67.55
ELEV. 457.64
EXISTING GROUND
PROPOSED GRADE
455.89
455.89
455.61
455.45
455.78
455.74
456.26
456.09
456.99
456.31
457.56
457.74
1000+00
1005+00
1010+00
480
470
460
450
440
430
420

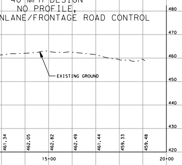
IH 35E SB FRONTAGE ROAD "EZ"
40 MPH DESIGN


PVI 679+49.00 ELEV. 457.33
0.73%
PVC 680+90.00 ELEV. 458.35
L=120' K=109
PVI 681+50.00 ELEV. 458.79
PVRC 682+10.00 ELEV. 459.89
1.83%
PVI 683+70.00 ELEV. 462.81
PROPOSED GRADE
L=320' K=84
PVT 685+30.00 ELEV. 459.66
-1.97%
EXISTING GROUND
PVI 687+27.09 ELEV. 455.78
480
470
460
450
440
430
420
457.70 457.03 458.43 460.16 459.71 461.38 461.05 461.64 461.22 460.38 460.20 458.29 458.28 457.40 456.31 457.08
680+00
685+00

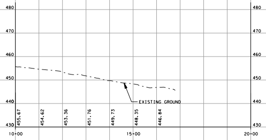
IH 35E SB FRONTAGE ROAD "EY"
40 MPH DESIGN


470
460
450
440
430
420
410
1.55%
PVI 691+94.97 ELEV. 450.74
PVC 692+30.00 ELEV. 451.28
L=100' K=45
PVI 692+80.00 ELEV. 452.05
-0.68%
PVT 693+30.00 ELEV. 451.71
PVC 693+60.00 ELEV. 451.51
L=160' K=66
LOW 694+04.60 ELEV. 451.36
PVI 694+40.00 ELEV. 450.97
1.76%
PVT 695+20.00 ELEV. 452.37
PVC 695+40.00 ELEV. 452.72
L=320' K=71
PVI 697+00.00 ELEV. 455.53
-2.78%
PVRC 698+60.00 ELEV. 451.08
L=180' K=214
PVI 699+50.00 ELEV. 448.58
PVT 700+40.00 ELEV. 446.84
PVI 700+78.62 ELEV. 446.09
-1.94%
EXISTING GROUND
PROPOSED GRADE
450.81 450.86 451.82 451.55 451.36 451.20 452.05 452.05 453.52 453.74 453.72 453.67 452.50 451.93 450.01 450.60 447.65 448.27
690+00
695+00
700+00
705+00

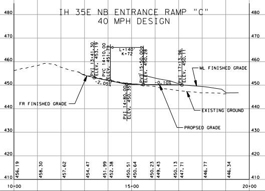
SB ENTRANCE RAMP "CTC"
40 MPH DESIGN
NO PROFILE,
NLANE/FRONTAGE ROAD CONTROL


EXISTING GROUND
480
470
460
450
440
430
420
461.34 462.05 462.82 462.49 461.44 459.33 459.48
15+00
20+00

IH 35E SB EXIT RAMP "CU"
40 MPH DESIGN
NO PROFILE,
IH 35E MAINLANE/FRONTAGE ROAD CONTROL


480
470
460
450
440
430
EXISTING GROUND
455.67 454.62 453.36 451.76 449.73 448.35 446.84
10+00
15+00
20+00

IH 35E NB ENTRANCE RAMP "C"
40 MPH DESIGN


480
470
460
450
440
430
420
410
PVI 13+41.30 ELEV. 453.19
PVC 14+10.00 ELEV. 451.79
-2.05%
L=140' K=72
PVI 14+80.00 ELEV. 450.35
PVT 15+50.00 ELEV. 450.28
-0.10%
PVI 17+13.96 ELEV. 450.11
ML FINISHED GRADE
FR FINISHED GRADE
EXISTING GROUND
PROPSED GRADE
456.19 458.30 457.62 454.47 451.99 452.38 450.51 450.64 450.23 449.43 450.13 447.71 446.77 446.34
10+00
15+00
20+00

"PRELIMINARY SUBJECT TO CHANGE"
BASED ON FURTHER DEVELOPMENTS RESULTING
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DRAFT INTERIM SCHEMATIC
WILLIAM L. HALE, P.E., DISTRICT ENGINEER

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TO: US 380

DALLAS & DENTON COUNTY

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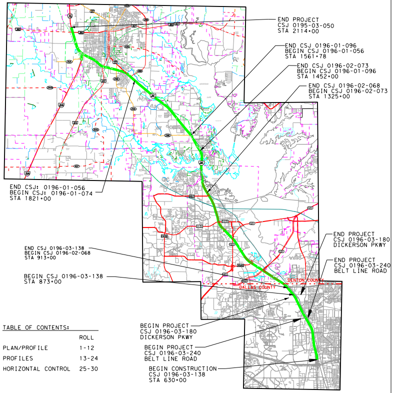
DENTON COUNTY
DALLAS COUNTY

END PROJECT
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STA 2114+00

END CSJ 0196-01-096
BEGIN CSJ 0196-01-056
STA 1561+78

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STA 1452+00

END CSJ 0196-02-068
BEGIN CSJ 0196-02-073
STA 1325+00

END CSJ: 0196-01-056
BEGIN CSJ: 0196-01-074
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END PROJECT
CSJ 0196-03-180
DICKERSON PKWY

END PROJECT
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BELT LINE ROAD

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STA 873+00

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DICKERSON PKWY

BEGIN PROJECT
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BELT LINE ROAD

BEGIN CONSTRUCTION
CSJ 0196-03-138
STA 630+00

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SCALE:
HORIZONTAL 1"=200'
VERTICAL 1"=20'

1/11/2013

ROLL 13 OF 30

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NOT FOR PERMITTING, BIDDING
OR CONSTRUCTION.
Prepared by or under the
Direct Supervision of:
SHAWN BRENT STOVER 109251
NAME P.E. NUMBER
1/11/2013
DATE

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