Texas Department of Transportation

DALLAS DISTRICT

WILLIAM L. HALE, P.E. DISTRICT ENGINEER

DESIGN SCHEMATIC

SH 114

FROM: 1.236 MI E OF INTERNATIONAL PKY

TO: SH 183

NET LENGTH OF PROJECT = 11.63 MI

CSJ: 0353-04-056 FROM 1.236 MI E OF INTERNATIONAL PKY TO SPUR 348
CSJ: 0353-04-084 U-TURN AT SH 161
CSJ: 0353-06-025 FROM SPUR 348 TO 0.087 MILES EAST OF ROCHELLE
CSJ: 0353-06-050 FROM 0.087 MI E OF ROCHELLE TO 0.203 MI W OF TOM BRANIFF
CSJ: 0353-06-054 FROM 0.203 MI W OF TOM BRANIFF TO SH 183
CSJ: 0581-02-121 FROM TEXAS PLAZA TO LP 12/IH-35E SPLIT

Dallas County

HIGHWAY CLASSIFICATION

URBAN FREEWAY

MAY 2009

Design Speeds

MAINLANES = 70 MPH
RAMPS = 50 MPH
DIRECT CONNECTORS = 50 MPH
FRONTAGE ROADS = 45 MPH
CROSS STREETS = 45 MPH
MANAGED HOV LANES = 70 MPH (MAINLINE); 50 MPH (RAMPS)

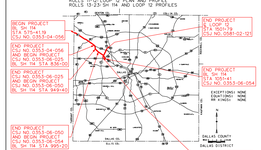
Average Daily Traffic 2008 (2028)

NB IH 35E to SH 114	164,400 (224,200)
SH 121 to SH 114	164,400 (224,200)
SH 114 to SPUR 348	147,500 (201,000)
SPUR 348 to SH 183	74,700 (123,000)

HIGHWAY VOLUMES INCLUDE MAIN AND MANAGED HOV LANES ONLY

SOURCE: NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS

ROLLS 1-10/-SH 114 PLAN AND PROFILE
ROLLS 11-15/-LOOP 12 PLAN AND PROFILE
ROLLS 13-23/-SH 114 AND LOOP 12 PROFILES



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DART CITY OF IRVING

PREPARED BY BRIDGEFARMER & ASSOCIATES, INC.
UNDER THE SUPERVISION OF

STERLING C. FORSYTHE, III SHAHRIAR AZAD WEIYIH TEE

P.E. NO. 57339 DATE: 05/11/09
P.E. NO. 91682 DATE: 05/11/09
P.E. NO. 98478 DATE: 05/11/09

BRIDGEFARMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
TBPE REGISTRATION NO. 284
12801 NORTH CENTRAL EXPRESSWAY
SUITE 1100
DALLAS, TEXAS 75243
TEL: (972) 231-8800 FAX: (972) 231-9900

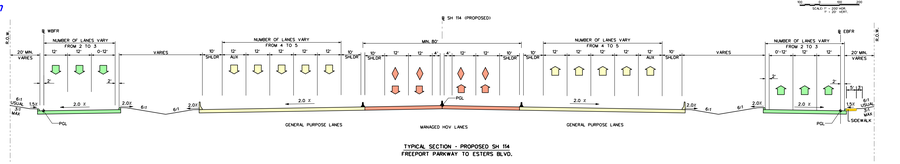
DATE APPROVED

DESIGN SCHEMATIC NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES.

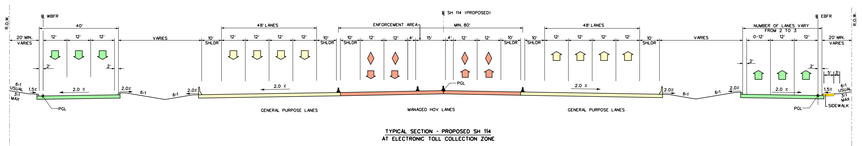
Roll: 1 of 23

DATE SUBMITTED

DATE REVISED



TYPICAL SECTION - PROPOSED SH 114
FREEPORT PARKWAY TO ESTERS BLVD.



TYPICAL SECTION - PROPOSED SH 114
AT ELECTRONIC TOLL COLLECTION ZONE

CURVE DATA

STREET NAME	CURVE NO./SOURCE NAME	DELTA	DEGREE	RADIUS	LENGTH	TANGENT	P.C. STATION	P.T. STATION	P.I. STATION
	CURVE NO.								
WB FRONTAGE ROAD	C1	FRWBC1	4°14'24.47"	1°14'47.91"	1342.25	268.55	1,300.00	584+49.63	589+34.19	587+03.19
EB FRONTAGE ROAD	C1	FREBC1	4°14'24.47"	1°14'47.91"	1342.25	268.55	1,300.00	584+49.63	589+34.19	587+03.19
	C2	FREBC2	31°27'26.90"	11°44'35.49"	487.92	155.00	500.00	589+34.19	594+22.11	591+89.19
	CURVE NO.									
FREEPORT PARKWAY	C1	FREPKC1	41°26'06.40"	4°12'00.00"	1364.65	711.74	1,400.00	10+52.41	24+17.06	17+64.84
	C2	FREPKC2	41°26'06.40"	4°12'00.00"	1364.65	711.74	1,400.00	24+17.06	37+81.71	31+29.49
WB ENTRANCE FROM ESTERS	C1	FREPKC1	41°26'06.40"	4°12'00.00"	1364.65	711.74	1,400.00	10+52.41	24+17.06	17+64.84
	C2	FREPKC2	41°26'06.40"	4°12'00.00"	1364.65	711.74	1,400.00	24+17.06	37+81.71	31+29.49
WB EXIT TO FREEPORT PARKWAY	C1	FREPKC1	41°26'06.40"	4°12'00.00"	1364.65	711.74	1,400.00	10+52.41	24+17.06	17+64.84
	C2	FREPKC2	41°26'06.40"	4°12'00.00"	1364.65	711.74	1,400.00	24+17.06	37+81.71	31+29.49
EB EXIT TO ESTERS	C1	RESTC1	41°26'06.40"	4°12'00.00"	1364.65	711.74	1,400.00	10+52.41	24+17.06	17+64.84
	C2	RESTC2	41°26'06.40"	4°12'00.00"	1364.65	711.74	1,400.00	24+17.06	37+81.71	31+29.49
EB ENTRANCE FROM FREEPORT PARKWAY	C1	RESTC1	41°26'06.40"	4°12'00.00"	1364.65	711.74	1,400.00	10+52.41	24+17.06	17+64.84
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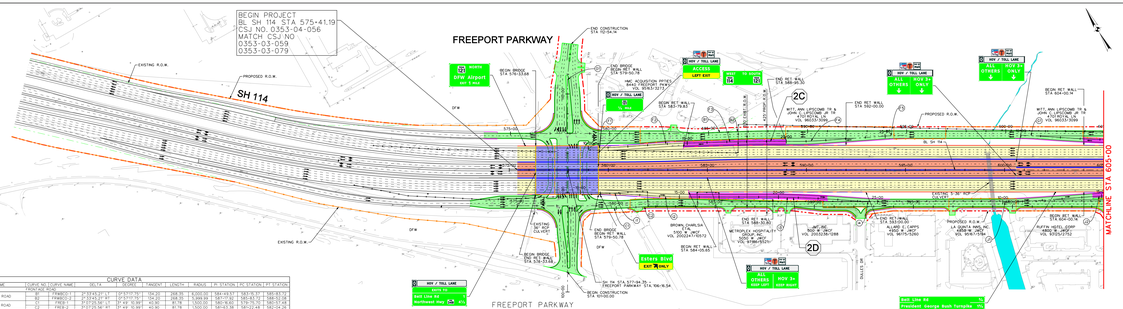
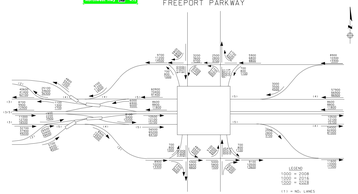
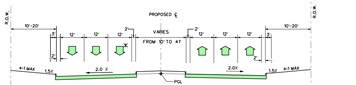




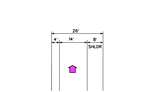
LEGEND

- MAIN LANES (DESIGN SPEED=70 MPH)
- FRONTAGE ROADS & CROSS STREETS (DESIGN SPEED=45 MPH)
- MANAGED HOV LANES (DESIGN SPEED=70 MPH) UNLESS NOTED OTHERWISE
- MANAGED HOV WISHBONE RAMPS & DIRECT CONNECTORS (DESIGN SPEED=50 MPH) UNLESS NOTED OTHERWISE
- ENTRANCE & EXIT RAMPS (DESIGN SPEED=50 MPH) UNLESS NOTED OTHERWISE
- BRIDGE
- SIDEWALK (WHERE EXISTING SIDEWALK EXISTS)
- RR TRACKS
- EXISTING R.O.W.
- PROPOSED R.O.W. CSJ# 0581-02-077
- PROPOSED R.O.W.
- PROPOSED CONTROL OF ACCESS
- EXISTING CONTROL OF ACCESS
- RETAINING WALL

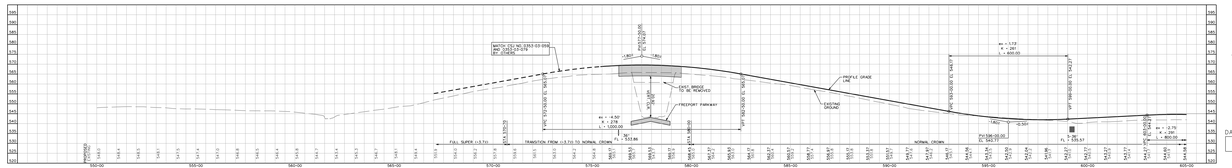


PROPOSED FREEPORT PARKWAY

NOTE: 'X' ADDITIONAL LANE IN NORTH SIDE OF FREEPORT PARKWAY



TYPICAL SECTION - PROPOSED ONE LANE RAMP



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