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: 0353-04-068 U-TURN AT SH 161
CSJ: 0353-06-023 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 LEE
CSJ: 0353-06-054 FROM 0.203 MI W OF TOM LEE/ANSPT 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

MAIN LNES = 70 MPH
FRONTAGE RDS = 45 MPH
DIRECT CONNECTORS = 50 MPH
MANAGED HOV WISHBONE RAMPS = 50 MPH
MANAGED HOV LANES = 70 MPH
MANAGED HOV LANES TO MAIN LNES = 50 MPH (RAMPS)
HIDDEN RIDGE = 35 MPH

Average Daily Traffic 2008 (2028)

SH 183 to SH 161 = 164,000 (224,000)
SH 161 to SH 348 = 164,000 (223,000)
SH 348 to SH 78 = 164,000 (223,000)
HIGHWAY VOLUME INCLUDES MAIN LANES AND MANAGED HOV LANES ONLY

SOURCE: NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS

ROLLS 1:10 SH 114 PLAN AND PROFILE
ROLL 1:10 SH 114 PLAN AND PROFILE
ROLL 1:10 SCOPE, LIMITS, AND TYPICAL SECTIONS

BEGIN PROJECT CSJ: 0353-04-056 AND BEGIN PROJECT CSJ: 0353-04-068 SH 114 -CONTD- FM 2437 (ESTABLISH CL) Sta. 10+00.00

END PROJECT CSJ: 0353-04-056 AND END PROJECT CSJ: 0353-04-068 SH 114 -CONTD- FM 2437 (ESTABLISH CL) Sta. 10+00.00 = Sta. 0+00.00 BK

END PROJECT CSJ: 0353-04-068 SH 114 -CONTD- FM 2437 (ESTABLISH CL) Sta. 0+00.00 AHD

BEGIN PROJECT CSJ: 0353-04-068 SH 114 -CONTD- FM 2437 (ESTABLISH CL) Sta. 0+00.00 AHD

END PROJECT CSJ: 0353-04-068 SH 114 -CONTD- FM 2437 (ESTABLISH CL) Sta. 0+00.00 = Sta. 10+00.00 BK

VALLEY RANCH INTERCHANGE

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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.
TRANSPORTATION ENGINEERS
TBPE REGISTRATION NO. 004
12801 NORTH CENTRAL EXPRESSWAY, 4TH FLOOR
DALLAS, TEXAS 75243
TEL: (972) 231-6900 FAX: (972) 231-6909

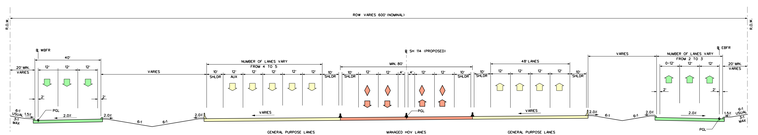
Roll: 7 of 23

DATE APPROVED

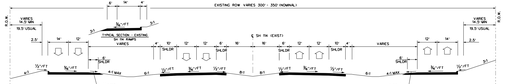
DATE SUBMITTED

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

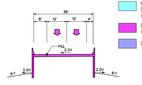
DATE REVISED



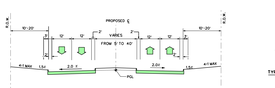
TYPICAL SECTION - PROPOSED SH 114
SPUR 348 TO O'CONNOR RD.

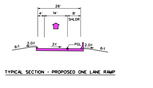


TYPICAL SECTION - EXISTING SH 114
SPUR 348 TO SPUR 482

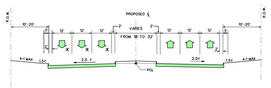


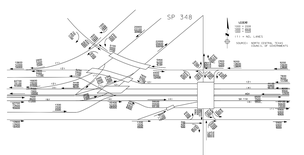
TYPICAL SECTION - PROPOSED TWO LANE RAMP





TYPICAL SECTION - PROPOSED ONE LANE RAMP

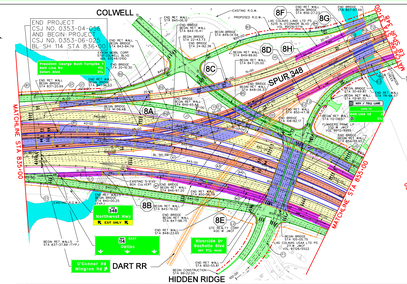


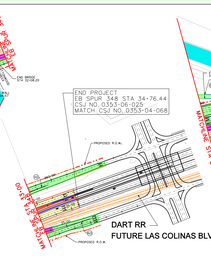


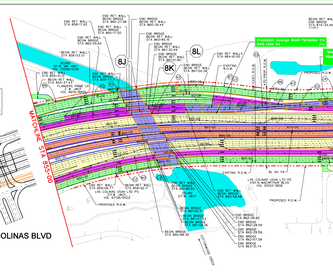
NOTE: NO LANES IN NORM SIDE OF HIDDEN RIDGE

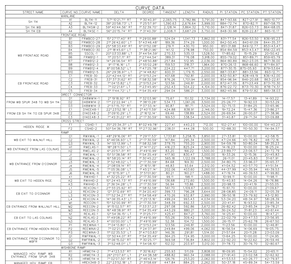
LEGEND

- MAIN LANES (DESIGN SPEED=70 MPH)
- FRONTAGE ROADS & CROSS STREETS (DESIGN SPEED=45 MPH)
- MANAGED HOV LANES (DESIGN SPEED=70 MPH UNLESS NOTED OTHERWISE)
- 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



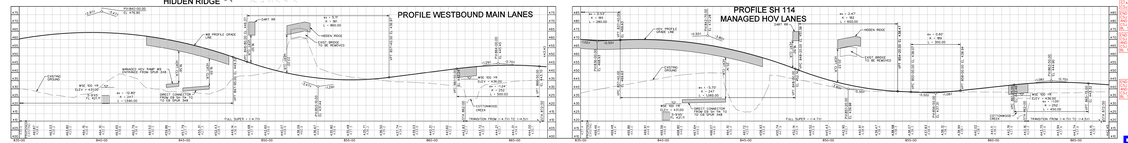






CURVE DATA

STREET NAME	CURVE NO.	DELTA	RADIUS	DEGREE	TANGENT	LENGTH	CHORD	BEARING
SH 114	C1	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
SH 114	C2	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
SH 114	C3	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
WB FRONTAGE ROAD	C1	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C2	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C3	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
EB FRONTAGE ROAD	C1	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C2	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C3	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
FROM WB SPUR 348 TO WB SH 114	C1	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
FROM EB SH 114 TO EB SPUR 348	C1	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
WB EXIT TO MACKY RD.	C1	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
WB EXIT TO MACKY RD.	C2	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
WB ENTRANCE FROM LAS COLINAS	C1	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
WB ENTRANCE FROM O'CONNOR	C1	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
WB EXIT TO HIDDEN RIDGE	C1	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
EB EXIT TO O'CONNOR	C1	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
EB ENTRANCE FROM BALLPOT PKY	C1	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
EB EXIT TO LAS COLINAS	C1	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
EB ENTRANCE FROM HIDDEN RIDGE	C1	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
EB ENTRANCE FROM O'CONNOR	C1	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
MANAGED HOV RAMP #1 (MAIN LNES TO MANAGED HOV LANES) (DESIGNED FOR 35 MPH)	C1	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C2	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C3	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C4	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C5	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C6	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C7	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C8	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C9	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C10	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C11	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C12	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C13	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C14	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C15	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C16	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C17	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C18	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C19	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C20	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C21	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C22	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C23	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C24	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C25	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C26	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C27	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C28	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C29	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C30	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C31	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C32	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C33	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C34	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C35	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C36	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C37	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C38	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C39	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C40	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C41	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C42	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C43	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C44	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C45	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C46	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C47	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C48	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C49	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C50	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C51	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C52	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C53	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C54	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C55	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C56	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C57	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C58	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C59	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C60	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C61	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C62	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C63	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C64	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C65	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C66	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C67	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C68	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C69	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C70	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C71	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C72	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C73	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C74	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C75	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C76	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C77	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C78	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C79	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C80	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C81	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C82	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C83	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C84	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C85	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C86	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C87	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C88	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C89	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C90	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C91	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C92	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C93	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C94	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C95	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C96	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C97	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C98	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C99	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E
	C100	0°00'00"	0.00'	0°00'00"	0.00'	0.00'	0.00'	S 00°00'00" E



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: 0353-04-068 U-TURN AT SH 161
CSJ: 0353-06-023 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 LEE
CSJ: 0353-06-054 FROM 0.203 MI W OF TOM LEE/ANSPT 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

MAIN LNES = 70 MPH
FRONTAGE RDS = 45 MPH
DIRECT CONNECTORS = 50 MPH
MANAGED HOV WISHBONE RAMPS = 50 MPH
MANAGED HOV LANES = 70 MPH
MANAGED HOV LANES TO MAIN LNES = 50 MPH (RAMPS)
HIDDEN RIDGE = 35 MPH

Average Daily Traffic 2008 (2028)

SH 183 to SH 161 = 164,000 (224,000)
SH 161 to SH 348 = 164,000 (223,000)
SH 348 to SH 78 = 164,000 (223,000)
HIGHWAY VOLUME INCLUDES MAIN LANES AND MANAGED HOV LANES ONLY

SOURCE: NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS

ROLLS 1:10 SH 114 PLAN AND PROFILE
ROLL 1:10 SH 114 PLAN AND PROFILE
ROLL 1:10 SCOPE, LIMITS, AND TYPICAL SECTIONS

BEGIN PROJECT CSJ: 0353-04-056 AND BEGIN PROJECT CSJ: 0353-04-068 SH 114 -CONTD- FM 2437 (ESTABLISH CL) Sta. 10+00.00

END PROJECT CSJ: 0353-04-056 AND END PROJECT CSJ: 0353-04-068 SH 114 -CONTD- FM 2437 (ESTABLISH CL) Sta. 10+00.00 = Sta. 0+00.00 BK

END PROJECT CSJ: 0353-04-068 SH 114 -CONTD- FM 2437 (ESTABLISH CL) Sta. 0+00.00 AHD

BEGIN PROJECT CSJ: 0353-04-068 SH 114 -CONTD- FM 2437 (ESTABLISH CL) Sta. 0+00.00 AHD

END PROJECT CSJ: 0353-04-068 SH 114 -CONTD- FM 2437 (ESTABLISH CL) Sta. 0+00.00 = Sta. 10+00.00 BK

VALLEY RANCH INTERCHANGE

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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.
TRANSPORTATION ENGINEERS
TBPE REGISTRATION NO. 004
12801 NORTH CENTRAL EXPRESSWAY, 4TH FLOOR
DALLAS, TEXAS 75243
TEL: (972) 231-6900 FAX: (972) 231-6909

Roll: 7 of 23

DATE APPROVED

DATE SUBMITTED

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

DATE REVISED