Texas Department of Transportation®

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

STATE HIGHWAY 114
DESIGN SCHEMATIC
AT FM 156
DENTON COUNTY
PROJECT LENGTH: 1.079 MI.

CONTROL: 0353–02–063
PROJECT LIMIT: AT FM 156
FROM 0.53 Mi. WEST OF FM 156
TO 0.54 Mi. EAST OF FM 156

FUNCTIONAL CLASS: RURAL PRINCIPAL ARTERIAL

DESIGN SPEED SH 114: 70 mph MAINLANES
DESIGN SPEED FM 156: 45 mph DIVIDED ARTERIAL
DESIGN SPEED SH 114: 40 mph FRONTAGE ROADS
DESIGN SPEED SH 114: 50 mph RAMPS
DESIGN SPEED SH 114: 35 mph DIRECT CONNECTORS
DESIGN SPEED SH 114: 30 mph SIDE STREETS

ROLL 2 OF 3

SCALE: 1" = 200' H, 1" = 20' V

JANUARY 18, 2013

HALFF ASSOCIATES, INC.
PRELIMINARY FOR INTERIM REVIEW ONLY

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NAME	P.E. NO.	DATE
M.E. ROMANOWSKI	56306	1/18/2013

TBPE FIRM #F-312

HALFF
1201 NORTH BOWSER ROAD
RICHARDSON, TEXAS 75081-2275
TEL (214) 346-6200

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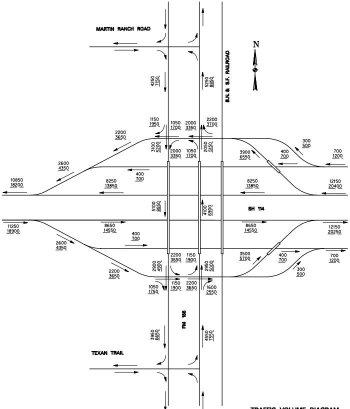
LEGEND

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 CONTROL OF ACCESS
PROPOSED RETAINING WALL
PROPOSED STORM SEWER
PROPOSED MAINLANES PAVEMENT
PROPOSED FUTURE MAINLANES PAVEMENT
PROPOSED FUTURE RAMP PAVEMENT
PROPOSED FRONTAGE ROAD PAVEMENT
PROPOSED SIDE STREET PAVEMENT
PROPOSED FM 156 PAVEMENT
PROPOSED BRIDGE
PROPOSED FUTURE BRIDGE

NOTES

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

48121C0490 G, APRIL 18, 2011
48121C0495 G, APRIL 18, 2011


MARTIN RANCH ROAD
N
B.N. & S.F. RAILROAD
4250 7150
5250 8850
1150 1950
1050 1700
2000 3350
2200 3700
2200 3650
3100 5200
2000 3350
1050 1700
2050 5150
3900 6550
400 700
300 500
700 1200
2600 4350
400 700
10850 18200
8250 13850
8250 13850
12150 20400
5100 8550
4100 6900
SH 114
11250 18900
8650 14550
8650 14550
12150 20250
400 700
2600 4350
2200 3650
1150 1900
3500 5700
400 700
700 1200
2200 3650
2900 4900
2950 5000
300 500
1050 1750
1150 1900
2200 3650
1600 2550
FM 156
3950 6650
4550 7550
TEXAN TRAIL

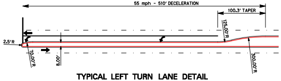
LEGEND
1,000 - 2005 ADT
1,000 - 2025 ADT

TRAFFIC VOLUME DIAGRAM
OF FM 156

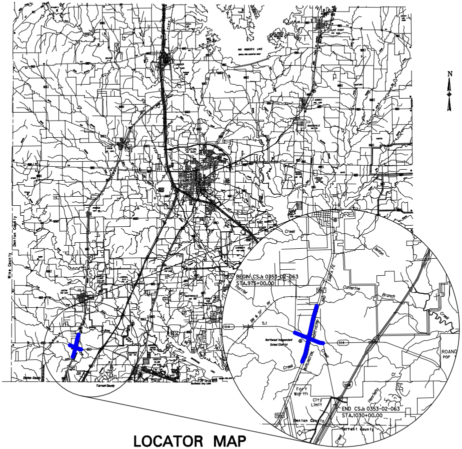
BASED ON DATA OBTAINED FROM
TRANSPORTATION PLANNING AND PROGRAMMING
TXDOT, AUSTIN, TEXAS

TRAFFIC DIAGRAM

N.T.S.

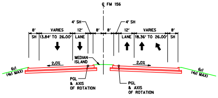

55 mph - 510' DECELERATION
100.3' TAPER
125.00'R
2.5'R
70.00'R
8.00'
100.00'R

TYPICAL LEFT TURN LANE DETAIL


N
DENTON
ROANOKE POP
Denton County
Tarrant County
Wise County
BEGIN CSJ: 0353-02-063
STA.975+00.00
END CSJ: 0353-02-063
STA.1030+00.00
SANTA FE
AND
NORTHERN
BURLINGTON
BN & SF RY
Harriet
Catherine
Branch
Creek
Henrietta
Northwest Independent School District
156
114
Fort Worth City Limit

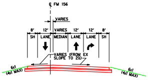
LOCATOR MAP

N.T.S.


℄ FM 156
8'
SH
VARIES
13.84' TO 26.00'
12'
LANE
4' SH
8'
8'
4' SH
12'
LANE
VARIES
18.36' TO 26.00'
8'
SH
MEDIAN ISLAND
2.0%
2.0%
6:1 (4:1 MAX)
PGL & AXIS OF ROTATION

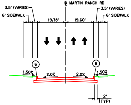
TYPICAL SECTION F.M. 156
TRANSITION AREA NORTH END

STA 333+50.00 TO STA 338+44.50

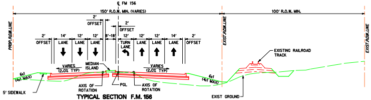

℄ FM 156
VARIES
8' SH
12' LANE
VARIES MEDIAN
12' LANE
12' LANE
8' SH
VARIES (FROM EX SLOPE TO 2%)
6:1 (4:1 MAX)

TYPICAL SECTION F.M. 156
TRANSITION AREA NORTH END

STA 338+44.50 TO STA 341+86.03

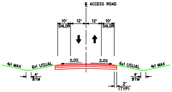

℄ MARTIN RANCH RD
3.5' (VARIES)
6' SIDEWALK
19.78'
19.60'
3.5' (VARIES)
6' SIDEWALK
6
1.50%
2.0%
2.0%
1.50%
2' (TYP)

TYPICAL SECTION MARTIN RANCH RD

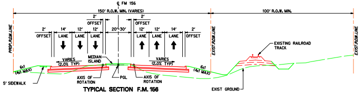

℄ FM 156
150' R.O.W. MIN. (VARIES)
100' R.O.W. MIN.
PROP. R.O.W. LINE
EXIST R.O.W. LINE
2' OFFSET
14' LANE
12' LANE
12' LANE
8'-18'
12' TURN LANE
12' LANE
12' LANE
14' LANE
2' OFFSET
VARIES (2.0% TYP)
MEDIAN ISLAND
AXIS OF ROTATION
PGL
EXISTING RAILROAD TRACK
6:1 (4:1 MAX)
5' SIDEWALK
EXIST GROUND

TYPICAL SECTION F.M. 156

STA. 284+34.00 TO STA. 287+53.90 LEFT TURN LANE (8' MEDIAN)
STA. 301+79.19 TO STA. 302+69.78 LEFT TURN LANE (18' MEDIAN)
STA. 309+51.46 TO STA. 311+06.96 LEFT TURN LANE (18' MEDIAN)
STA. 325+77.90 TO STA. 330+05.44 LEFT TURN LANE (8' MEDIAN)

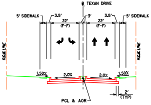

℄ ACCESS ROAD
10' SHLDR
12'
12'
10' SHLDR
2.0%
2.0%
4:1 MAX
6:1 USUAL
4' BTM
2' (TYP)

TYPICAL SECTION ACCESS ROAD

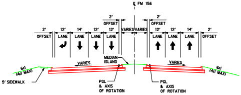

℄ FM 156
150' R.O.W. MIN. (VARIES)
100' R.O.W. MIN.
PROP. R.O.W. LINE
EXIST R.O.W. LINE
2' OFFSET
14' LANE
12' LANE
12' LANE
20'-30'
12' LANE
12' LANE
14' LANE
2' OFFSET
VARIES (2.0% TYP)
MEDIAN ISLAND
AXIS OF ROTATION
PGL
EXISTING RAILROAD TRACK
6:1 (4:1 MAX)
5' SIDEWALK
EXIST GROUND

TYPICAL SECTION F.M. 156

STA. 288+32.47 TO STA. 293+70.75
STA. 297+25.18 TO STA. 297+45.19
STA. 300+75.20 TO STA. 301+79.19
STA. 311+06.96 TO STA. 325+77.90
STA. 330+85.28 TO STA. 333+50.00

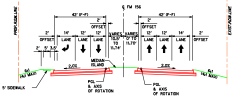

℄ TEXAN DRIVE
5' SIDEWALK
3.5'
22' (F-F)
3'
22' (F-F)
3.5'
5' SIDEWALK
R.O.W. LINE
1.50%
2.0%
2.0%
1.50%
PGL & AOR
2' (TYP)

TYPICAL SECTION TEXAN DRIVE


℄ FM 156
2' OFFSET
12' LANE
14' LANE
12' LANE
12' LANE
VARIES
VARIES
12' LANE
12' LANE
14' LANE
2' OFFSET
VARIES
MEDIAN ISLAND
PGL & AXIS OF ROTATION
6:1 (4:1 MAX)
5' SIDEWALK

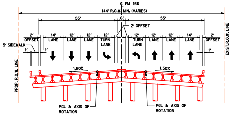
TYPICAL SECTION F.M. 156

STA 293+70.75 TO STA 297+25.18


R.O.W. VARIES
℄ FM 156
PROP. R.O.W. LINE
EXIST. R.O.W. LINE
42' (F-F)
42' (F-F)
2' OFFSET
14' LANE
12' LANE
12' LANE
VARIES 10.5' TO 11.74'
VARIES 0' TO 11.70'
12' LANE
12' LANE
14' LANE
2' OFFSET
2' 5' 3.5'
2.0%
2.0%
MEDIAN ISLAND
PGL & AXIS OF ROTATION
6:1 (4:1 MAX)
5' SIDEWALK

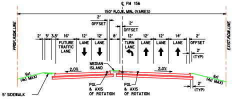
TYPICAL SECTION F.M. 156

STA. 288+32.47 TO STA. 293+70.15


℄ FM 156
144' R.O.W. MIN. (VARIES)
55'
6'
55'
2' OFFSET
PROP. R.O.W. LINE
EXIST. R.O.W. LINE
5' SIDEWALK
2' OFFSET
14' LANE
12' LANE
12' LANE
12' TURN LANE
12' TURN LANE
12' LANE
12' LANE
14' LANE
2' OFFSET
1'
1.50%
1.50%
PGL & AXIS OF ROTATION

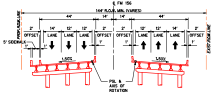
TYPICAL BRIDGE SECTION F.M. 156

STA 304+28.84 TO STA 307+94.84


℄ FM 156
150' R.O.W. MIN. (VARIES)
PROP. R.O.W. LINE
EXIST. R.O.W. LINE
2' 5' 3.5'
16' FUTURE TRAFFIC LANE
12' LANE
12' LANE
8'
12' TURN LANE
12' LANE
12' LANE
14' LANE
2' OFFSET
1' (TYP)
2.0%
2.0%
MEDIAN ISLAND
PGL & AXIS OF ROTATION
6:1 (4:1 MAX)
2' (TYP)
5' SIDEWALK

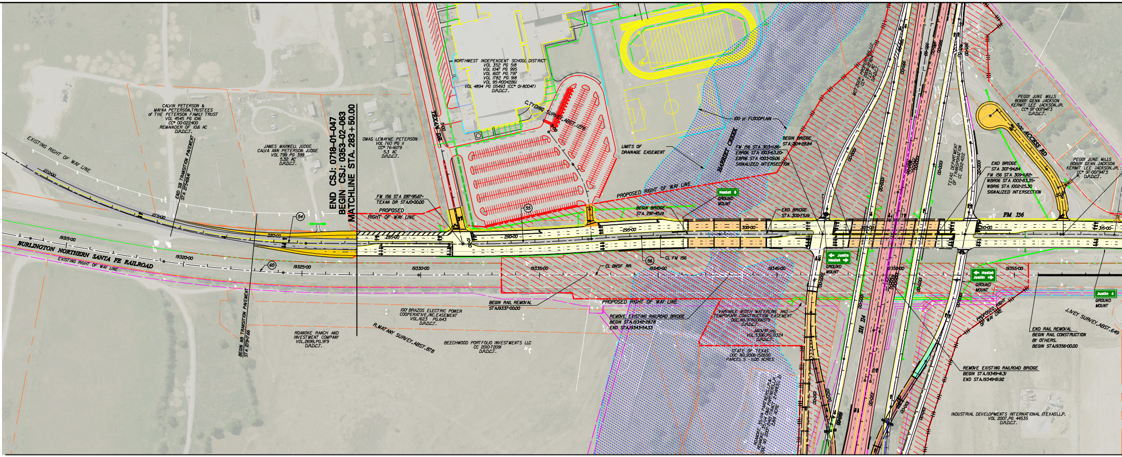
TYPICAL SECTION F.M. 156

STA 283+50.00 TO STA 287+53.90


℄ FM 156
144' R.O.W. MIN. (VARIES)
44'
14'
14'
44'
PROP. R.O.W. LINE
EXIST. R.O.W. LINE
5' SIDEWALK
2' OFFSET
14' LANE
12' LANE
12' LANE
2' OFFSET
2' OFFSET
12' LANE
12' LANE
14' LANE
2' OFFSET
1'
1.50%
1.50%
PGL & AXIS OF ROTATION

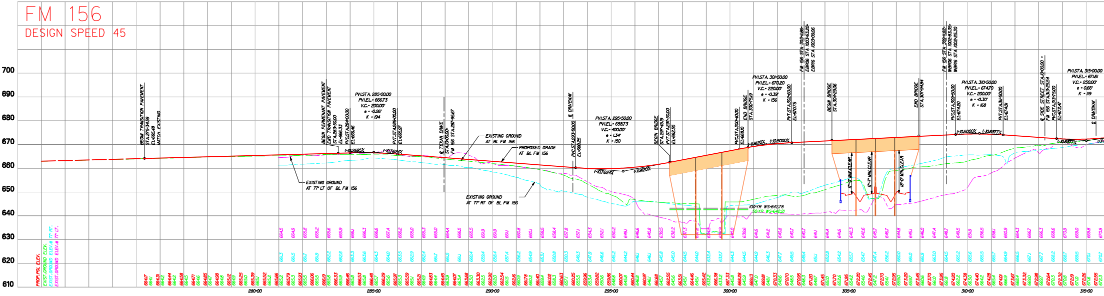
TYPICAL BRIDGE SECTION F.M. 156

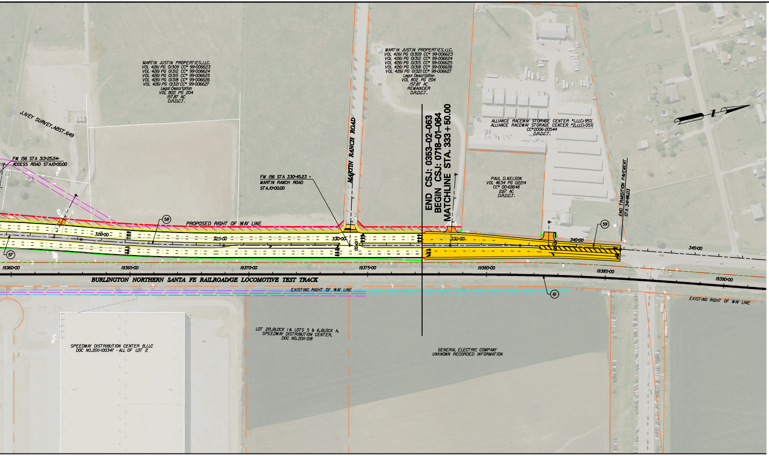
STA 297+45.19 TO STA 300+75.20 (NORTHBOUND)
STA 297+45.19 TO STA 300+75.20 (SOUTHBOUND)


END CSJ: 0718-01-047
BEGIN CSJ: 0353-02-063
MATCHLINE STA. 283+50.00
EXISTING RIGHT OF WAY LINE
270+00
275+00
280+00
285+00
290+00
295+00
300+00
305+00
310+00
315+00
END SB TRANSITION PAVEMENT STA 275+69.41
BEGIN NB TRANSITION PAVEMENT STA 279+17.66
CALVIN PETERSON &
MAYNA PETERSON,TRUSTEES
of THE PETERSON FAMILY TRUST
VOL 4545 PG 1016
CC# 00-022400
REMANDER OF 10.6 AC
D.R.D.C.T.
JAMES MAXWELL JUDGE
CALVA ANN PETERSON JUDGE
VOL 799 PG 399
5.32 AC
D.R.D.C.T.
OMAS LEWAYNE PETERSON
VOL 760 PG 11
CC# 76-16179
5.3 AC
D.R.D.C.T.
FM 156 STA 287+95.67=
TEXAN DR STA10+00.00
PROPOSED RIGHT OF WAY LINE
54
55
56
60
19315+00
19320+00
19325+00
19330+00
19335+00
19340+00
19345+00
19350+00
19355+00
BURLINGTON NORTHERN SANTA FE RAILROAD
EXISTING RIGHT OF WAY LINE
100' BRAZOS ELECTRIC POWER
COOPERATIVE,INC.EASEMENT
VOL.1623 PG.643
D.R.D.C.T.
ROANOKE RANCH AND
INVESTMENT COMPANY
VOL.2699,PG.979
D.R.D.C.T.
R.MATANY SURVEY,ABST.878
BEECHWOOD PORTFOLIO INVESTMENTS LLC
CC 2010-72091
D.R.D.C.T.
TEXAN DR
NORTHWEST INDEPENDENT SCHOOL DISTRICT
VOL 352 PG 518
VOL 1047 PG 995
VOL 1607 PG 797
VOL 1782 PG 918
VOL 95-R0042861
VOL 4894 PG 05493 (CC# 01-80047)
D.R.D.C.T.
C.TYDING SURVEY,ABST.1276
LIMITS OF
DRAINAGE EASEMENT
100 yr FLOODPLAIN
HARRIET CREEK
FM 156 STA 303+11.86=
EBR06 STA 1003+63.20=
EBR16 STA 1003+09.06
SIGNALIZED INTERSECTION
BEGIN BRIDGE
STA 304+28.84
BEGIN BRIDGE
STA 297+45.19
END BRIDGE
STA 300+75.19
Haslet 6
GROUND
MOUNT
CL FM 156
CL BNSF RR
BEGIN RAIL REMOVAL
STA19337+00.00
REMOVE EXISTING RAILROAD BRIDGE
BEGIN STA.19342+28.78
END STA.19343+54.33
VARIABLE WIDTH WATERLINE AND
TEMPORARY CONSTRUCTION EASEMENT
DOC.NO.97R0066579
D.R.D.C.T.
ANDV97,Inc.
VOL.5396,PG.0324
D.R.D.C.T.
STATE OF TEXAS
DOC NO.2006-152650
PARCEL 5 - 11.00 ACRES
METZGER PROPERTIES,LLC
CC# 2006-279247
7.157 AC
D.R.D.C.T.
← Justin
Haslet →
GROUND
MOUNT
SH 114
TEXAS DEPARTMENT
OF TRANSPORATION
CC 2012-4212
END BRIDGE
STA 307+94.84
FM 156 STA 309+11.82=
WBR06 STA 1002+83.35=
WBR16 STA 1002+25.30
SIGNALIZED INTERSECTION
FM 156
5+00
ACCESS RD
PEGGY JUNE MILLS
BOBBY GENN JACKSON
KERMIT LEE JACKSON,JR.
CC# 97-0079473
D.R.D.C.T.
PEGGY JUNE MILLS
BOBBY GENN JACKSON
KERMIT LEE JACKSON,JR.
CC# 97-0079473
D.R.D.C.T.
← Haslet
Justin →
GROUND
MOUNT
Justin 4
GROUND
MOUNT
PROPOSED RIGHT OF WAY LINE
J.IVEY SURVEY,ABST.649
END RAIL REMOVAL
BEGIN RAIL CONSTRUCTION
BY OTHERS.
BEGIN STA19356+00.00
REMOVE EXISTING RAILROAD BRIDGE
BEGIN STA.19349+41.31
END STA.19349+81.92
INDUSTRIAL DEVELOPMENTS INTERNATIONAL (TEXAS),L.P.
VOL 2007,PG 44535
D.R.D.C.T.

FM 156

DESIGN SPEED 45




MARTIN JUSTIN PROPERTIES,LLC.
VOL 4261 PG 01309 CC# 99-006623
VOL 4261 PG 01312 CC# 99-006624
VOL 4261 PG 01315 CC# 99-006625
VOL 4261 PG 01318 CC# 99-006626
VOL 4261 PG 01321 CC# 99-006627
Legal Description
VOL 802 PG 204
157.87 AC
D.R.D.C.T.
J.IVEY SURVEY,ABST.649
FM 156 STA 313+25.54=
ACCESS ROAD STA.10+00.00
FM 156 STA 330+45.23 =
MARTIN RANCH ROAD
STA.10+00.00
MARTIN RANCH ROAD
MARTIN JUSTIN PROPERTIES,LLC.
VOL 4261 PG 01309 CC# 99-006623
VOL 4261 PG 01312 CC# 99-006624
VOL 4261 PG 01315 CC# 99-006625
VOL 4261 PG 01318 CC# 99-006626
VOL 4261 PG 01321 CC# 99-006627
Legal Description
VOL 802 PG 204
157.87 AC
REMAINDER
D.R.D.C.T.
END CSJ: 0353-02-063
BEGIN CSJ: 0718-01-064
MATCHLINE STA. 333+50.00
ALLIANCE RACEWAY STORAGE CENTER #1,LLC:95%
ALLIANCE RACEWAY STORAGE CENTER #2,LLC:05%
CC#2006-20544
D.R.D.C.T.
PAUL D.NELSON
VOL 4634 PG 02214
CC# 00-68648
2.67 AC
D.R.D.C.T.
END TRANSITION PAVEMENT
STA 341+86.03
PROPOSED RIGHT OF WAY LINE
58
57
59
61
320+00
325+00
330+00
335+00
340+00
345+00
10+00
19360+00
19365+00
19370+00
19375+00
19380+00
19385+00
19390+00
BURLINGTON NORTHERN SANTA FE RAILROAD/GE LOCOMOTIVE TEST TRACK
EXISTING RIGHT OF WAY LINE
EXISTING RIGHT OF WAY LINE
LOT 2R,BLOCK 1 & LOTS 5 & 6,BLOCK A,
SPEEDWAY DISTRIBUTION CENTER.
DOC NO.2011-218
SPEEDWAY DISTRIBUTION CENTER B,LLC
DOC NO.2011-100347 - ALL OF LOT 2
GENERAL ELECTRIC COMPANY
UNKNOWN RECORDED INFORMATION

CURVE DATA

CENTERLINE FM 156 CURVE DATA									
CURVE NO.	CURVE	P.I. STATION	P.I. STATION - N	P.I. STATION - E	DELTA	RADIUS	TANGENT	LENGTH	CHORD BEARING
49	CLPR15-1	62+84.7453	N 7,042,533.9833	E 2,324,011.5775	47° 56′ 45.54″ (LT)	3,790.97	1,685.71	3,172.34	N 19° 54′ 44.52″ E
50	CLPR15-2	100+92.3018	N 7,046,530.5560	E 2,323,727.8600	3° 30′ 41.21″ (RT)	11,487.92	352.1362	704.0519	N 2° 18′ 17.65″ W
51	CLPR15-3	162+33.8669	N 7,052,672.0594	E 2,323,668.9919	42° 04′ 42.18″ (RT)	4,612.41	1,774.16	3,387.39	N 20° 29′ 24.04″ E
52	CLPR15-4	218+43.9326	N 7,056,992.3340	E 2,327,495.1754	61° 11′ 01.25″ (RT)	2,893.54	1,710.68	3,089.89	N 72° 07′ 15.76″ E
53	CLPR15-5	256+30.2699	N 7,056,086.1461	E 2,331,512.0363	52° 21′ 16.03″ (LT)	2,296.58	1,128.92	2,098.52	N 76° 32′ 08.37″ E
54	CLPR15-6	273+95.4759	N 7,057,313.9673	E 2,332,994.0267	37° 05′ 06.57″ (LT)	2,371.97	795.6118	1,535.28	N 31° 48′ 57.07″ E
55	CLPR15-7	290+31.6474	N 7,058,960.8802	E 2,333,382.5293	4° 39′ 43.07″ (LT)	7,229.00	294.2619	588.1992	N 10° 56′ 32.25″ E
56	CLPR15-8	296+02.3190	N 7,059,525.4396	E 2,333,468.0249	4° 23′ 04.40″ (RT)	7,229.00	276.7344	553.1986	N 10° 48′ 12.92″ E
57	CLPR15-9	316+14.6848	N 7,061,486.5245	E 2,333,920.6279	4° 45′ 19.44″ (RT)	7,229.00	300.1663	599.988	N 15° 22′ 24.83″ E
58	CLPR15-10	322+15.1131	N 7,062,058.6941	E 2,334,103.7948	4° 45′ 44.52″ (LT)	7,229.00	300.6066	600.8671	N 15° 22′ 12.29″ E
59	CLPR15-11	339+74.3842	N 7,063,773.2892	E 2,334,499.2903	4° 14′ 05.12″ (RT)	5,729.58	211.8343	423.4756	N 15° 06′ 22.59″ E

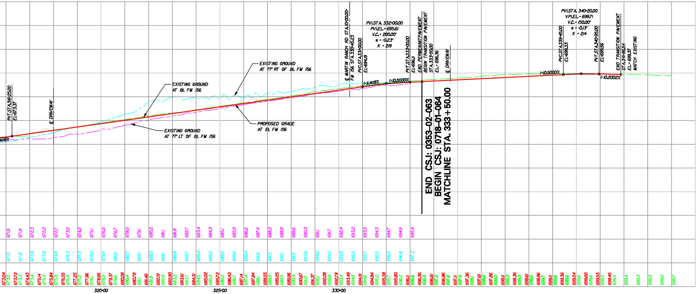
CENTERLINE BNSF RR CURVE DATA									
CURVE NO.	CURVE	P.I. STATION	P.I. STATION - N	P.I. STATION - E	DELTA	RADIUS	TANGENT	LENGTH	CHORD BEARING
60	BNSF2-1	19321+68.96	N 7,057,724.9026	E 2,333,206.7526	5° 03′ 07.70″ (LT)	5,729.58	252.77	505.21	N 18° 21′ 53.88″ E
61	BNSF2-2	19383+48.58	N 7,063,740.3867	E 2,334,621.1794	2° 59′ 05.12″ (RT)	11,459.16	298.54	596.95	N 15° 06′ 22.59″ E

SUPERELEVATION TABLES

SOUTHBOUND	FM 156 MAINLANES		NORTHBOUND
STATION	TEMPLATE		STATION
283+50.00	+2.00%	CL.	+2.00%	283+50.00
296+75.00	+2.00%	CL.	+2.00%	296+75.00
297+25.00	+1.50%	CL.	+1.50%	297+25.00
310+00.00	+1.50%	CL.	+1.50%	309+75.00
310+50.00	+2.00%	CL.	+2.00%	310+25.00
333+50.00	+2.00%	CL.	+2.00%	333+50.00

AXIS OF ROTATION (TYP.)

CROSS SLOPE TRANSITIONS SHALL BE EFFECTED USING LINEAR INTERPOLATION OF THE CROSS SLOPE VALUES OVER THE LENGTH OF THE TRANSITION.



CHORD LENGTH	P.C. STATION	P.T. STATION
3,080.59	45+99.0373	77+71.3794
703.9417	97+40.1657	104+44.2176
3,311.77	144+59.7065	178+47.0920
2,945.15	201+33.2535	232+23.1404
2,026.27	245+01.3452	265+99.8642
1,508.62	265+99.8642	281+35.1432
588.0369	287+37.3854	293+25.5846
553.0636	293+25.5846	298+78.7832
599.8158	313+14.5184	319+14.5065
600.6941	319+14.5065	325+15.3736
423.3793	337+62.5500	341+86.0256

CHORD LENGTH	P.C. STATION	P.T. STATION
505.05	19319+16.19	19324+21.40
596.88	19380+50.04	19386+46.99

Texas Department of Transportation®

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

STATE HIGHWAY 114
DESIGN SCHEMATIC
AT FM 156
DENTON COUNTY
PROJECT LENGTH: 1.079 MI.

CONTROL: 0353–02–063
PROJECT LIMIT: AT FM 156
FROM 0.53 Mi. WEST OF FM 156
TO 0.54 Mi. EAST OF FM 156

FUNCTIONAL CLASS: RURAL PRINCIPAL ARTERIAL

DESIGN SPEED SH 114: 70 mph MAINLANES
DESIGN SPEED FM 156: 45 mph DIVIDED ARTERIAL
DESIGN SPEED SH 114: 40 mph FRONTAGE ROADS
DESIGN SPEED SH 114: 50 mph RAMPS
DESIGN SPEED SH 114: 35 mph DIRECT CONNECTORS
DESIGN SPEED SH 114: 30 mph SIDE STREETS

ROLL 2 OF 3

SCALE: 1″ = 200′ H, 1″ = 20′ V

JANUARY 18, 2013

HALFF ASSOCIATES, INC.
PRELIMINARY FOR INTERIM REVIEW ONLY

THESE DOCUMENTS ARE FOR INTERIM REVIEW AND INTENDED FOR REGULATORY APPROVAL, PERMIT, BIDDING OR CONSTRUCTION PURPOSES. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:

M.E. ROMANOWSKI 56306 1/18/2013
NAME P.E. NO. DATE

TBPE FIRM #F-312

HALFF
1201 NORTH BOWSER ROAD
RICHARDSON, TEXAS 75081-2275
TEL (214) 346-6200

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FILE = I:\22000s\22015\W011A - State Highway 156\CADD\Schematic\22015 W011A SCHEM 02.dgn
DATE = 1/18/2013 TIME = 11:03:37 AM USERNAME = Melanie Waltman
AVO = 22015 PROJECT = 22015_W011A