Williamson County 1848

The HNTB Companies
Engineers Architects Planners

TBPE FIRM REGISTRATION NO: 420

SCALE:100.000000:1.000000

STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION
AUSTIN DISTRICT

PLAN AND PROFILE: PRELIMINARY DESIGN SCHEMATIC

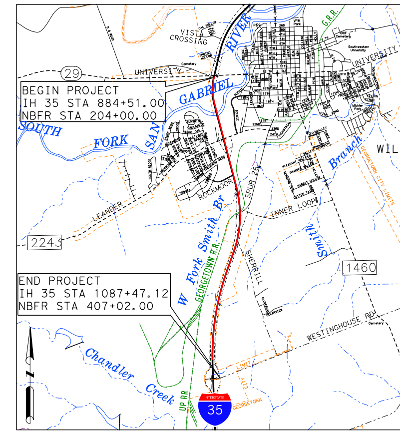
FROM: 0.04 MI SOUTH OF SH 29
TO: 0.26 MI NORTH OF WESTINGHOUSE RD.

IH 35 NORTHBOUND FRONTAGE ROAD
WILLIAMSON COUNTY

PROJECT NO. NH ( )

CONTROL CSJ = 0015-08-128
CONTROL CSJ = 0015-09-160
CONTROL CSJ = 0015-09-161

NET LENGTH OF ROADWAY = 19,592.00 FT = 3.711 MI
NET LENGTH OF BRIDGE = 925 FT = 0.175 MI
(ONLY 710 FT = 0.134 MI ARE ON IH 35 NBFR ALIGNMENT)
NET LENGTH OF PROJECT = 20,302.00 FT = 3.845 MI



EQUATIONS: NONE
RAILROADS: GEORGETOWN R.R.
EXCEPTIONS: NONE

SUBMITTED BY:

CORRECT: ______________________

______________________, 2012
MARK S. CISSELL, P.E.

HNTB
TBPE Firm Registration No:420
HNTB CORPORATION
THE HNTB COMPANIES
ENGINEERS ARCHITECTS PLANNERS
301 CONGRESS AVENUE, SUITE 600
AUSTIN, TX 78701
(512) 447-5590

STATE OF TEXAS
MARK S. CISSELL
99877
LICENSED
PROFESSIONAL ENGINEER

CURRENT ADT: 7,459 (2012)
PROJECTED ADT: 30,464 (2032)
FUNCTIONAL CLASSIFICATION: URBAN COLLECTOR

DESIGN SPEED:

MAINLANES	- 70 MPH
FRONTAGE ROADS	- 50 MPH
RAMPS	- 50 MPH
RM 2243	- 40 MPH
INNER LOOP	- 30 MPH
TURN-AROUND	- 15 MPH

BEARING BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD83, CENTRAL ZONE AND ADJUSTED TO SURFACE USING PROJECTED SURFACE ADJUSTMENT FACTOR OF 1.00013.

SCALE: 1":100' H
1":10' V

____
APPROVED: TXDOT DESIGN DIVISON LETTER DATED

____
APPROVED: FHWA LETTER DATED

SUBMITTED FOR APPROVAL: ______________________, 2012

____
TRANSPORTATION PLANNING DIRECTOR

APPROVED: ______________________, 2012

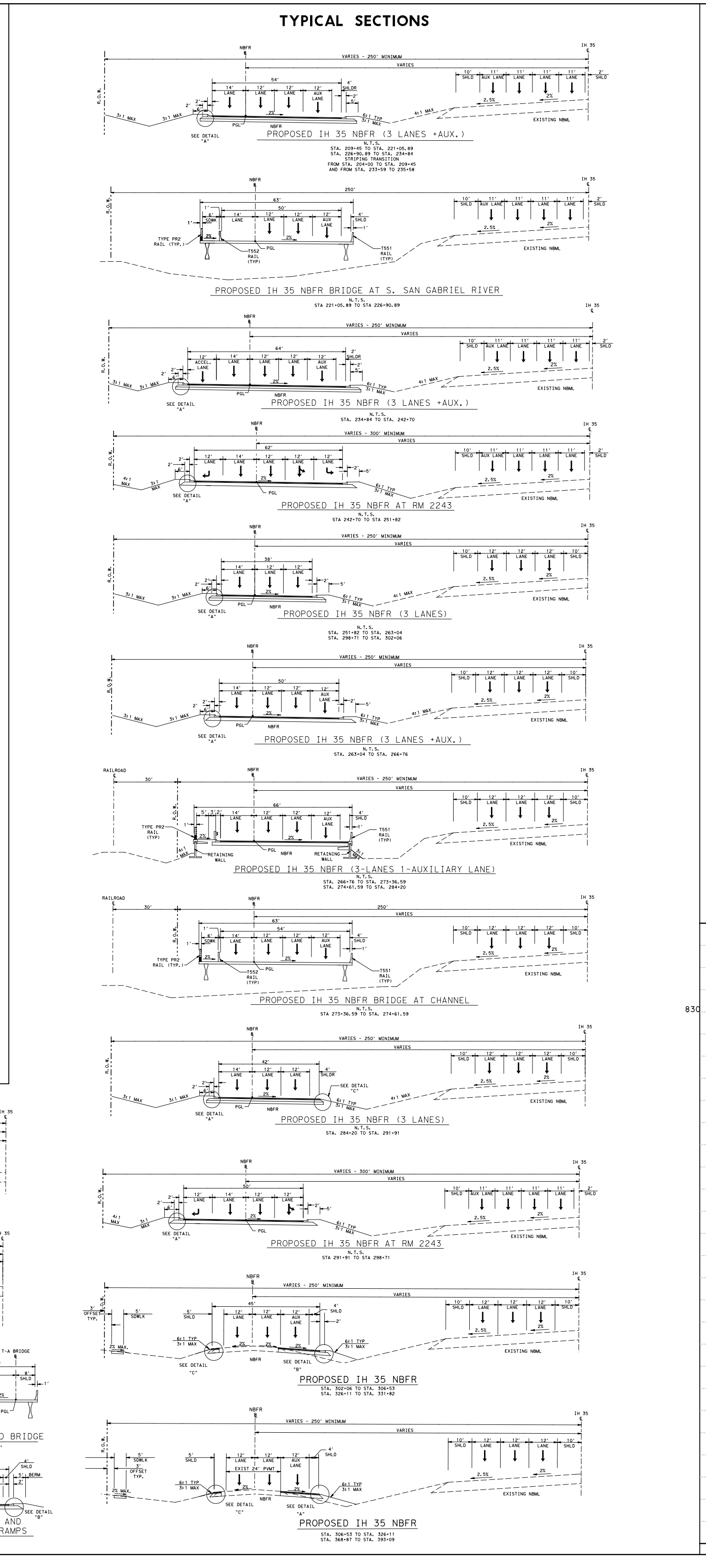
____
DIRECTOR OF TRANSPORTATION PLANNING AND DEVELOPMENT

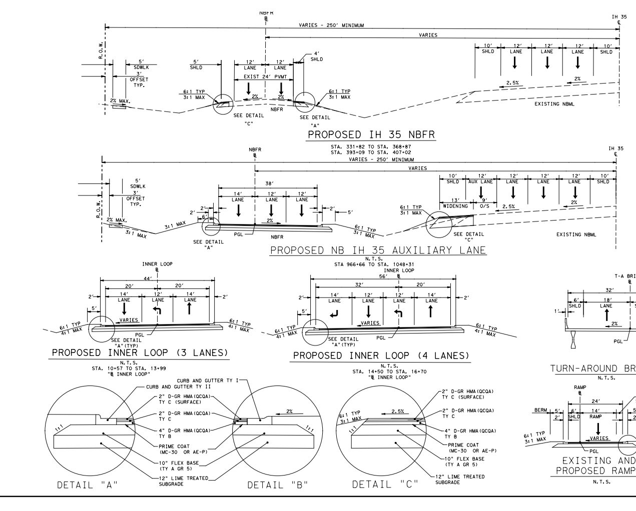
APPROVED: ______________________, 2012

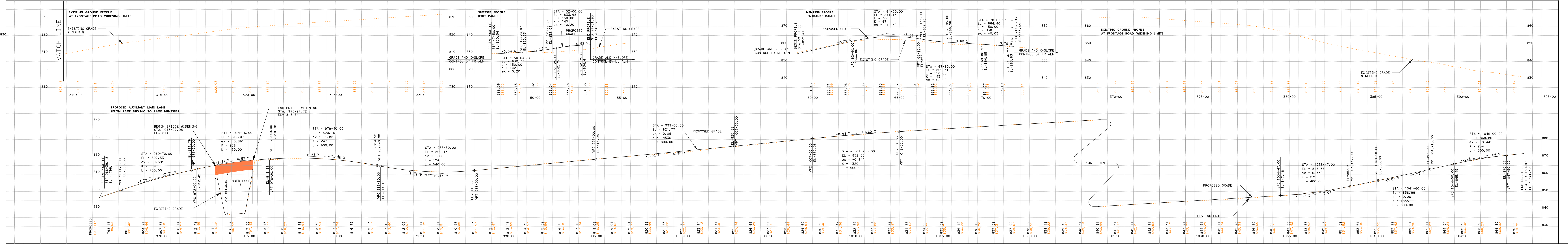
____
DISTRICT ENGINEER

© 2012 BY TEXAS DEPARTMENT OF TRANSPORTATION; ALL RIGHTS RESERVED

TYPICAL SECTIONS







IH 35 NBFR ALIGNMENT

Beginning chain GTFRALM description

Point GT60 X 3,128,034.57 Y 10,205,108.74 Sta 200+00.00

Course from GT60 to PC GTFRALM-1 S 13° 16' 56" W Dist 119.49

Curve Data

Curve GTFRALM-1				
P.I. Station	211+33.05	X 3,127,774.26	Y 10,204,006.00	
Delta =	28° 25' 27" (LT)			
Degree =	1° 25' 54"			
Tangent =	1,013.56			
Length =	1,985.36			
Radius =	4,002.00			
External =	126.35			
Long Chord =	1,965.07			
Mid. Ord. =	122.49			
P.C. Station	201+19.49	X 3,128,007.12	Y 10,204,992.45	
P.T. Station	221+04.86	X 3,128,039.01	Y 10,203,027.64	
C.C.		X 3,131,902.06	Y 10,204,073.01	
Back	= S 13° 16' 56" W			
Ahead	= S 15° 08' 31" E			
Chord Bear	= S 0° 55' 48" E			

Course from PT GTFRALM-1 to PC GTFRALM-2 S 15° 08' 31" E Dist 572.70

Curve Data

Curve GTFRALM-2			
P.I. Station	231+24.45	X 3,128,305.34	Y 10,202,043.44
Delta =	4° 15' 53" (LT)		
Degree =	0° 28' 39"		
Tangent =	446.89		
Length =	893.37		
Radius =	12,002.00		
External =	8.32		
Long Chord =	893.17		
Mid. Ord. =	8.31		
P.C. Station	226+77.56	X 3,128,188.60	Y 10,202,474.82
P.T. Station	235+70.93	X 3,128,453.83	Y 10,201,621.94
C.C.		X 3,139,773.91	Y 10,205,609.88
Back	= S 15° 08' 31" E		
Ahead	= S 19° 24' 24" E		
Chord Bear	= S 17° 16' 28" E		

Course from PT GTFRALM-2 to PC GTFRALM-3 S 19° 24' 24" E Dist 196.43

Curve Data

Curve GTFRALM-3			
P.I. Station	239+17.37	X 3,128,568.94	Y 10,201,295.18
Delta =	4° 17' 52" (RT)		
Degree =	1° 25' 59"		
Tangent =	150.01		

IH 35 NBML ALIGNMENT

Beginning chain MLALN description

Point ML10 X 3,128,159.59 Y 10,206,655.80

Course from ML10 to PC MLALN-1 S 13° 24' 01" W Dist 1,650.99

Curve Data

Curve MLALN-1	(Chord Definition)	
P.I. Station	891+19.52	X 3,127,552.51
Delta =	28° 27' 22" (LT)	
Degree =	1° 30' 00"	
Tangent =	968.52	
Length =	1,897.01	
Radius =	3,819.71	
External =	120.88	
Long Chord =	1,877.63	
Mid. Ord. =	117.17	
P.C. Station	881+50.99	X 3,127,776.96
P.T. Station	900+48.01	X 3,127,804.09
C.C.		X 3,131,492.68
Back	= S 13° 24' 01" W	
Ahead	= S 15° 03' 21" E	
Chord Bear	= S 0° 49' 40" E	

Course from PT MLALN-1 to PC MLALN-2 S 15° 03' 21" E Dist 6,154.0

Curve Data

Curve MLALN-2	(Chord Definition)	
P.I. Station	979+24.01	X 3,129,849.95
Delta =	33° 29' 26" (RT)	
Degree =	1° 00' 04"	
Tangent =	1,721.92	
Length =	3,345.19	
Radius =	5,723.01	
External =	253.43	
Long Chord =	3,297.81	
Mid. Ord. =	242.69	
P.C. Station	962+02.08	X 3,129,402.66
P.T. Station	995+47.27	X 3,129,305.43
C.C.		X 3,123,876.10
Back	= S 15° 03' 21" E	
Ahead	= S 18° 26' 06" W	
Chord Bear	= S 1° 41' 23" W	

Course from PT MLALN-2 to PC MLALN-3 S 18° 26' 06" W Dist 2,299.5

Curve Data

Curve MLALN-3	(Chord Definition)	
P.I. Station	1024+48.50	X 3,128,387.98
Delta =	6° 01' 27" (LT)	
Degree =	0° 30' 04"	

HNTB
2 of 2
County: Williamson
Date: 21-MARCH-2012
Preliminary Design Schematic for IH 35 Northbound Frontage Road
Texas Department of Transportation

HNTB
2 of 2
County: Williamson
Date: 21-MARCH-2012
Preliminary Design Schematic for IH 35 Northbound Frontage Road
Texas Department of Transportation