TEXAS DEPARTMENT OF TRANSPORTATION

DALLAS DISTRICT
JAMES K. (KELLY) SELMAN, P.E., DISTRICT ENGINEER

I-45 WIDENING DESIGN SCHEMATIC

NAVARRO COUNTY, TEXAS

PROJECT DESCRIPTION: ADD A MAINLANE TO I-45 IN THE CENTER MEDIAN IN EACH DIRECTION, AND RECONSTRUCT THE INTERCHANGES AT SH 14, BUSINESS 45 SOUTH AND BUSINESS 45 NORTH. THE EXISTING FRONTAGE ROADS AND RAMPS TO REMAIN EXCEPT AS INDICATED IN THE INTERCHANGE AREAS. CITIES ALONG THE PROJECT LIMITS: CORSICANA, MUSTANG, ANGUS, RICHLAND AND STREETMAN

DATE: APRIL 2015

CSJ: 0166-01-049	SOUTH OF FM 246 TO SOUTH OF SH 14	(6.77 MILES)
CSJ: 0093-01-098	SOUTH OF SH 14 TO NORTH OF FM 739	(6.73 MILES)
CSJ: 0093-01-096	SOUTH OF BI 45F TO NORTH OF BUS 287	(2.42 MILES)
CSJ: 0092-06-101	NORTH OF BUS 287 TO NORTH BUSINESS 45	(5.22 MILES)
	TOTAL PROJECT LENGTH	21.14 MILES

INDEX OF SHEETS

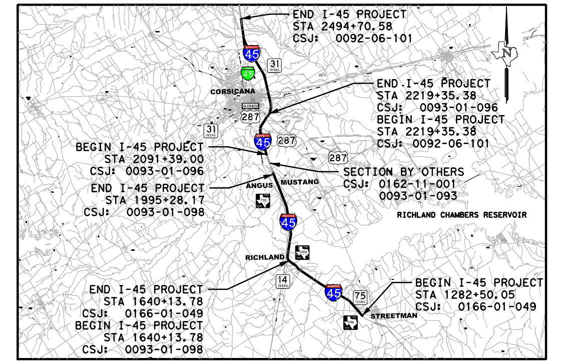
ROADWAY TYPE	DESIGN SPEED
MAIN LANES	70 MPH
DIRECT CONNECTORS	40 MPH
RAMPS	40 MPH
LOOP RAMP	35 MPH
FRONTAGE ROADS	40 MPH
CROSS STREETS	30 MPH

FUNCTIONAL CLASSIFICATION

FC 1 (INTERSTATE)

ROLL 4 OF 14

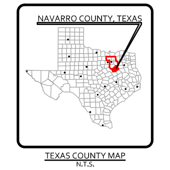
NOTE: PROJECT USES ROLLING TERRAIN CRITERIA



LOCATION MAP
N.T.S.

LEGEND:

EXISTING ROW	CONTROL OF ACCESS LINE
CITY/COUNTY LINE	PROPOSED EDGE OF PAVEMENT
EXISTING PLANIMETRIC FEATURES	PROPOSED RETAINING WALL
EXISTING CULVERT	PROPOSED CULVERT
CENTERLINE/BASELINE	PROPOSED BRIDGE
EXISTING TO BE REMOVED	PROPOSED MAIN LANES
DIRECTION OF TRAVEL	PROPOSED RAMP/DIRECT CONNECTOR



TEXAS COUNTY MAP
N.T.S.

0 100 200 300 400 HORIZONTAL SCALE
0 10 20 30 40 VERTICAL SCALE

PRELIMINARY
FOR INTERIM REVIEW ONLY
THESE DOCUMENTS ARE FOR INTERIM REVIEW AND NOT INTENDED FOR REGULATORY APPROVAL, PERMIT, BIDDING OR CONSTRUCTION PURPOSES. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:
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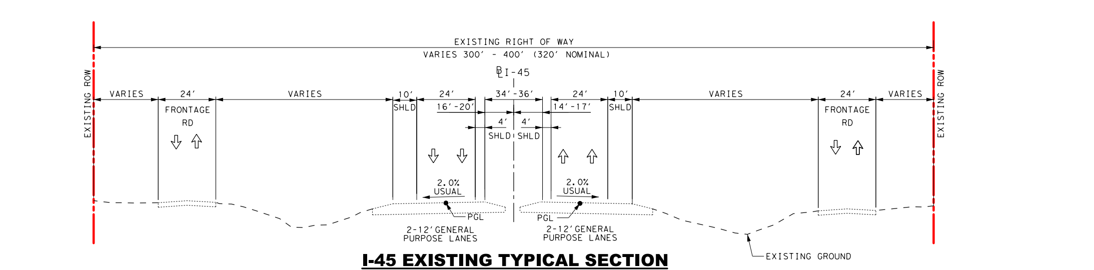
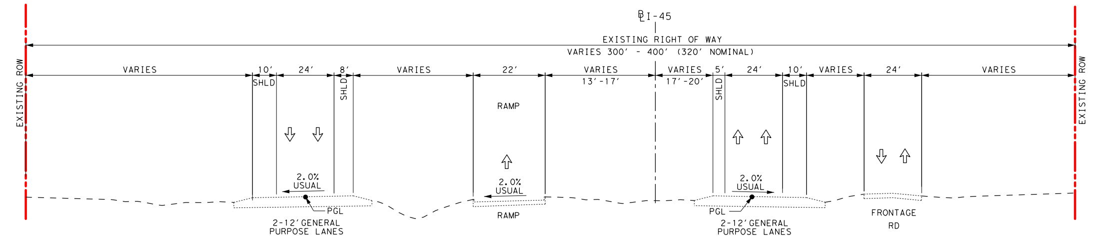
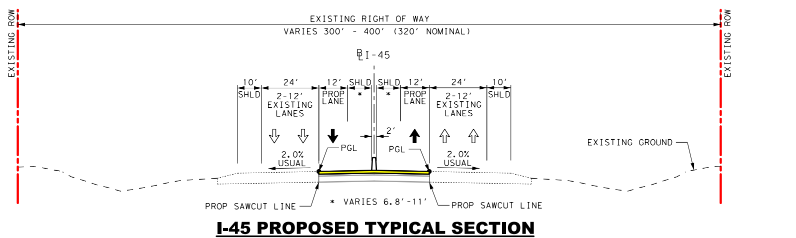


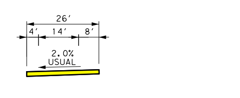
I-45 EXISTING TYPICAL SECTION
STA 1576+00 TO STA 1613+00
STA 1655+00 TO STA 1681+00



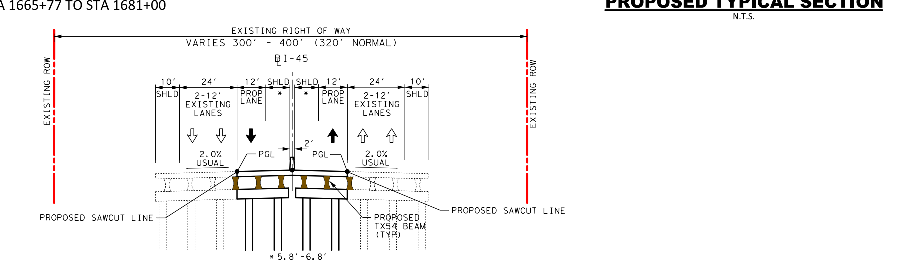
I-45 EXISTING TYPICAL SECTION
STA 1613+00 TO STA 1655+00



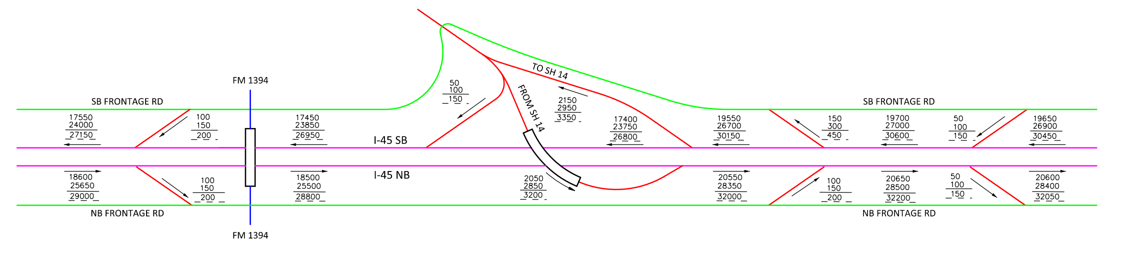
I-45 PROPOSED TYPICAL SECTION
STA 1576+00 TO STA 1611+00
STA 1665+77 TO STA 1681+00



RAMP AND DIRECT CONNECTORS PROPOSED TYPICAL SECTION



I-45 PROPOSED TYPICAL SECTION
STA 1655+37 TO STA 1665+77



TRAFFIC LINE DIAGRAM

GENERAL NOTES

1. TOPOGRAPHICAL DATA OBTAINED FROM TXDOT IN SEPTEMBER 2014.
2. TRAFFIC VOLUMES ARE UNAPPROVED AS OF MARCH 12, 2015.
3. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE NB/SB ML PGL.
4. EXISTING CULVERT INFORMATION OBTAINED FROM TXDOT IN JANUARY 2015.
5. DESIGN EXCEPTIONS ANTICIPATED FOR THE FOLLOWING:
   A. SHOULDER WIDTH (INSIDE)
   B. VERTICAL CLEARANCE
   C. SUPERELEVATION
6. MAINLANE GORES WILL BE RESTRIPED, BUT EXISTING RAMPS WILL NOT BE RECONSTRUCTED UNLESS OTHERWISE INDICATED.
7. RAMP NOSE LOCATIONS WILL NOT MOVE UNLESS OTHERWISE INDICATED.

SUPERELEVATION DATA

CURVE		BEGIN TRANSITION		END TRANSITION		BEGIN TRANSITION		END TRANSITION	
NAME	RADIUS (FEET)	STATION	CROSS SLOPE (%)	STATION	SUPER ELEVATION (%)	STATION	SUPER ELEVATION (%)	STATION	CROSS SLOPE (%)
I45BL15	3,820	1570+28	-2.0%	1573+46	4.6%	1584+79	4.6%	1588+77	-2.0%
I45BL16	3,828	1587+42	-2.0%	1590+61	4.6%	1599+14	4.6%	1599+14	4.6%
I45BL17	3,637	1599+12	4.6%	1599+21	4.8%	1601+66	4.8%	1605+76	-2.0%
I45BL18	1,975	1618+25	-2.0%	1623+25	6.0%	PCC - MAINTAIN SUPERELEVATION			
I45BL19	2,080	PCC - MAINTAIN SUPERELEVATION				1640+40	6.0%	1645+40	-2.0%
I45PWNB17	2,072	2617+97	-2.0%	2621+83	6.0%	2644+24	6.0%	2649+07	-2.0%
RBNE11	350	10+00	-2.0%	12+00	6.0%	17+25	6.0%	18+25	2.0%
RBNE12	1,050	15+52	-2.0%	21+13	4.6%	19+23	4.6%	23+21	-2.0%
RD14SB1	456	10+00	-2.0%	12+21	-5.7%	TIE TO EX LOOP RAMP			
D14N451	1,050	10+00	2.5%	11+00	5.8%	REVERSE SUPERELEVATION TRANSITION			
D14N452	1,100	12+33	5.8%	15+58	-5.7%	25+18	-5.7%	28+43	5.8%
D14N453	1,050	29+31	5.8%	29+81	6.0%	PCC - MAINTAIN SUPERELEVATION			
D14N454	1,050	PCC - MAINTAIN SUPERELEVATION				PCC - MAINTAIN SUPERELEVATION			
D14N455	2,024	PCC - MAINTAIN SUPERELEVATION				34+70	6.0%	35+48	4.0%

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LOCATION MAP
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