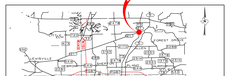
DESIGN SCHEMATIC PROFILES SHEET NO.11

INTERCHANGE AT SH 121 AND US 75
COLLIN COUNTY, TEXAS
CSJ: 0364-04-040

PROJECT LOCATION



VICINITY MAP
NTS

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
WILLIAM HALE, P.E. - DISTRICT ENGINEER

NORTH TEXAS TOLLWAY AUTHORITY
JORGE FIGUEREDO - EXECUTIVE DIRECTOR

JUNE, 2008

SURVEY CONTROL POINTS

POINT NAME	NORTHING	EASTING	ELEVATION	STATION AND OFFSET (FEET)
ARS 75-01	7169351.7253	2524951.8059	651.210	75 @ STA 694+00.36, 148.20 RT
ARS 121-01	7169351.3852	2552907.6451	675.380	121 @ STA 1247+43.50, 5148.62 RT
ARS 121-02	7169341.3852	2552907.6451	675.380	121 @ STA 1247+43.50, 5148.62 RT
ARS 121-06	7167173.5364	2537389.2578	660.21	121 @ STA 1247+43.50, 95.88 RT
ARS 121-10	7169765.5705	2541606.2638	576.820	121 @ STA 1247+43.50, 106.15 LT

LEGEND

	EXISTING	PROPOSED
MAIN LANE		
RAMP		
FRONTAGE ROAD		
CROSS STREETS		
RIGHT-OF-WAY/PROPERTY LINES		
CONTROL-OF-ACCESS		
MAINLINE/FRONTAGE/RAMP TRAFFIC LANE DIRECTIONAL INDICATOR		
RETAINING WALLS	NOT SHOWN	
BRIDGES		
DIRECT CONNECTOR		

FUNCTIONAL CLASSIFICATION
URBAN FREEWAY

PROJECT LENGTH
SH 121 - 7.8 MILES
US 75 - 1.3 MILES
TOTAL - 9.1 MILES

DESIGN SPEEDS

MAIN LANE:	TO MPH BASED ON URBAN INTERSTATE FREEWAY
FRONTAGE ROAD:	40 MPH
DIRECT CONNECT RAMPS:	50 MPH BASED ON MID RANGE
ON/OFF RAMPS:	50 MPH BASED ON MID RANGE
LOOP RAMPS:	25 MPH
CROSS STREETS:	45 MPH (30 MPH WHERE NOTED)

TYPICAL SECTIONS
(A) 12' CROP
(B) 4' HMAC (TY. B)
(C) 12' FTAB, SIDOR W/12' CROP
(D) 14' CROP
(E) 10' CROP

PROPOSED ALIGNMENTS

MAIN LANES:	
FRONTAGE ROADS:	
ON/OFF RAMPS:	
DIRECT CONNECT RAMPS:	
CROSS STREETS:	

SCALE
PLAN: 1" = 100'
PROFILE: HORZ 1" = 100', VERT 1" = 10'

NOTES:
1. HORIZONTAL AND VERTICAL CONTROL BASED ON NAD 83 COORDINATES.
2. GANTRY LOCATIONS BASED ON TOLL TRAFFIC AND REVENUE STUDY BY N. ROSS & ASSOCIATES.
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INDEX OF ROLLS
ROLL 1 AND 2 = PLAN AND PROFILE SH 121 MAIN LANES
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ROLL 5 AND 6 = PLAN AND PROFILE US 121 FRONTAGE ROADS
ROLL 6 AND 7 = PROFILES SH 121 FRONTAGE ROADS
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Texas Department of Transportation

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NORTH TEXAS TOLLWAY AUTHORITY

DESIGN
SCHEMATIC PROFILES
PROPOSED DIRECT CONNECTORS
COLLIN COUNTY, TEXAS

JACOBS
BRIDGEFARMER
SECTION 4

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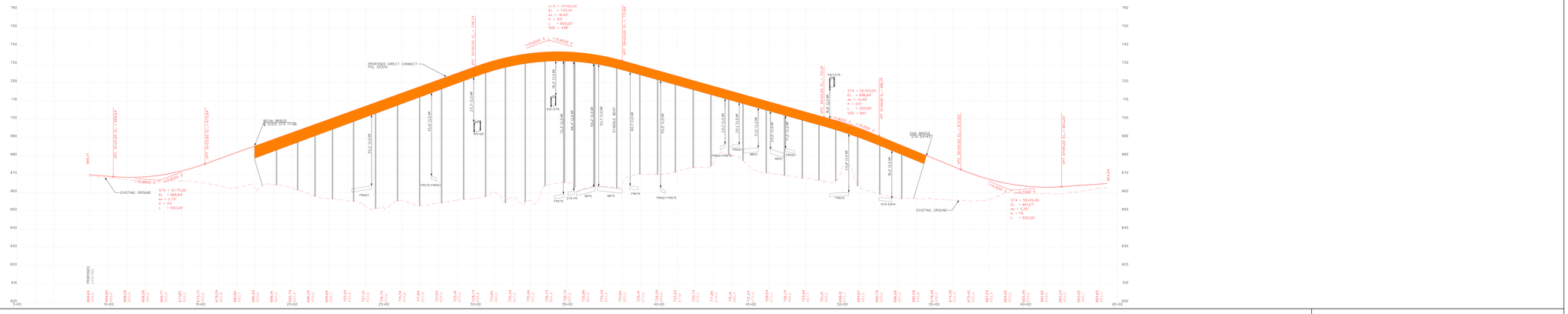
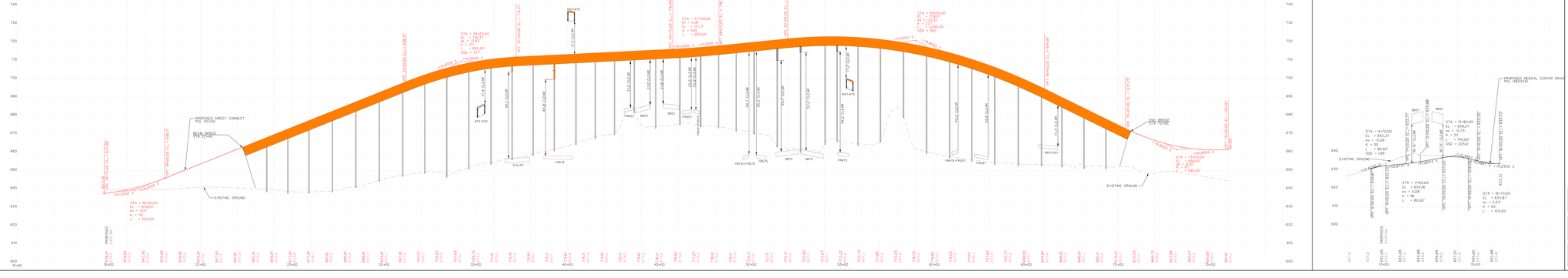
CONTRACT 02292-SH 121-04-PS-PM ROLL 11 OF 11

DIRECT CONNECT N121-N75



DIRECT CONNECT S121-S75



MEDICAL CENTER DRIVE

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Texas Department of Transportation

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DESIGN SCHEMATIC
SH 121 AT US 75
COLLIN COUNTY, TEXAS

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CONTRACT 02292-SH 121-04-PS-PM ROLL 11 OF 11