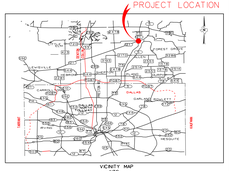
INTERCHANGE AT SH 121 AND US 75
COLLIN COUNTY, TEXAS
CSJ: 0364-04-040

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)
#RS 15-01	7164930.7253	2524951.8359	651210	75 @ STA 8+61.05, 146.20 RT
#RS 15-11	7165175.8982	2527990.8816	629.883	75 @ STA 122+06.15, 116.21 RT
#RS 121-01	7158301.2650	2520737.6121	675.180	121 @ STA 1137+13.55, 1149.82 RT
#RS 121-06	7157113.5264	2527584.8338	660.21	121 @ STA 1227+11.55, 35.88 RT
#RS 121-12	7147163.3730	2519936.3538	576.829	121 @ STA 1317+11.55, 1126.13

LEGEND

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

FUNCTIONAL CLASSIFICATION
URBAN FREEWAY

PROJECT LENGTH
SH 121 = 5.8 MILES
US 75 = 5.8 MILES
TOTAL = 5.7 MILES

DESIGN SPEEDS

MAIN LANE:	70 MPH BASED ON URBAN ARTERIAL FREEWAY
FRONTAGE ROAD:	45 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) 10" STAB. SBGR W/12" CEM. TREAT.
(D) 14" CROP
(E) 10" CROP

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

SCALE
PLAN: HORZ 1" = 100'; VERT
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 WILBUR SMITH AND ASSOC.
3. ALL STATIONS ARE REFERENCED TO SH 121 BASELINE UNLESS NOTED OTHERWISE.
4. COMPLETE REMOVAL OF EXISTING PAVEMENT, STRUCTURES & DEBRIS IN ACTIVE CONSTRUCTION LIMITS, EXCEPT WHERE SHOWN OTHERWISE.

INDEX OF ROLLS
ROLL 1 AND 2 = PLAN AND PROFILE SH 121 MAIN LINES
ROLL 3 = PLAN VIEW INTERCHANGE
ROLL 4 AND 5 = PLAN AND PROFILE US 75 MAIN LANES
ROLL 6 AND 7 = PROFILES SH 121 FRONTAGE ROADS
ROLL 8 AND 9 = PROFILES US 75 FRONTAGE ROADS
ROLL 10 AND 11 = PROFILES

Texas Department of Transportation

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NORTH TEXAS TOLLWAY AUTHORITY

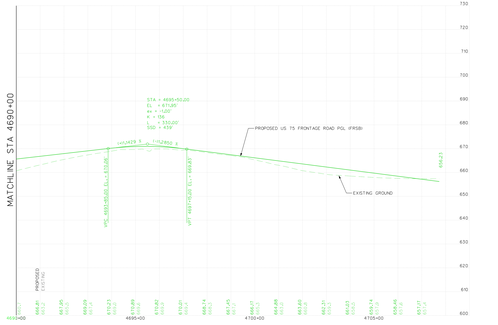
DESIGN
SCHEMATIC PROFILES
US 75 FRONTAGE ROADS
COLLIN COUNTY, TEXAS

JACOBS
BRIDGEFARMER
SECTION 4

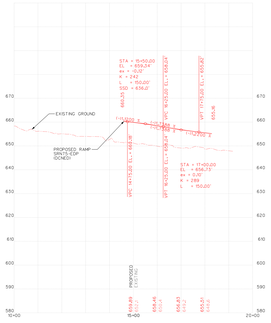
PRELIMINARY - FOR INFORMATION ONLY
These documents are in design mode and are intended for Construction Bidding purposes only. Not for Construction, Bidding or under the supervision of:
NAME: DATE:
SIGNATURE: PE NO.:

CONTRACT 02292-SH 121-04-PS PM ROLL 9 OF 11

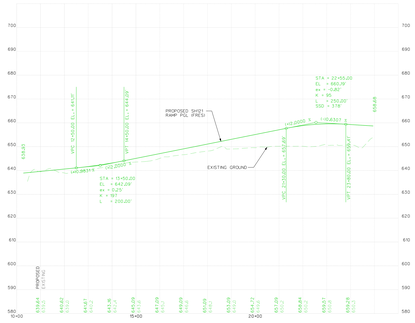
US 75 FRONTAGE ROAD FR S75



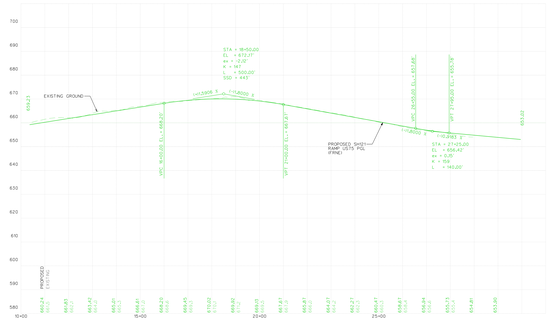
RAMP SRN75-EDP



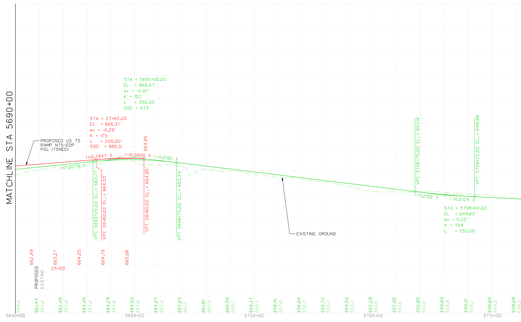
SH 121 FRONTAGE ROAD FRN121-FRS75 (40 MPH)



US 75 FRONTAGE ROAD FRN75-FRN121 (40 MPH)



US 75 FRONTAGE ROAD FR N75



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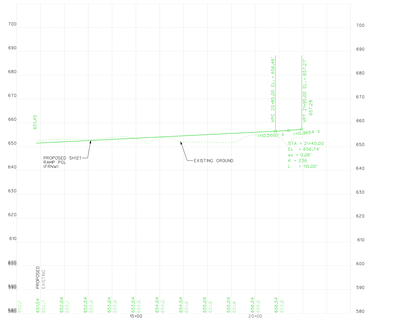
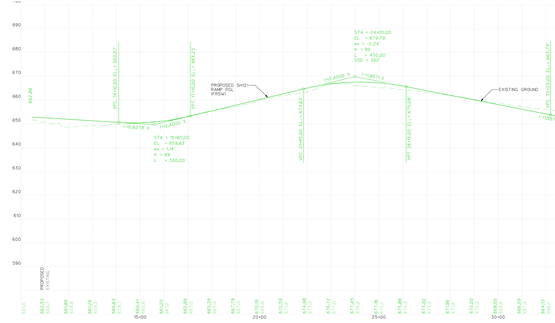


US 75 FRONTAGE ROAD FRS75-FRS121 (40 MPH)



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