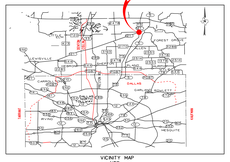
INTERCHANGE AT SH 121 AND US 75
COLLIN COUNTY, TEXAS
CSJ: 0364-04-040



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	7149351.7253	2534955.8559	651.210	75 @ STA 6+61.01,98.20 RT
ARS 121-01	7149351.3460	2552931.6457	675.280	121 @ STA 121+61.01,51.51 RT
ARS 121-02	7149351.3460	2552931.6457	675.280	121 @ STA 121+61.01,51.51RIGHT RT
ARS 121-06	7167173.5364	2537389.2578	660.21	121 @ STA 121+61.01,95.86 RT
ARS 121-10	7191765.5705	2541616.2638	576.820	121 @ STA 121+61.01,100.16 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 = 3.9 MILES
TOTAL = 5.9 MILES

DESIGN SPEEDS

MAIN LANES	70 MPH BASED ON URBAN INTERSTATE FREEWAY
FRONTAGE ROADS	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) 10' 2' FL SIDEW W/12" CURB
(D) 14' CROP
(E) 10' CROP

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

SCALE
PLAN: 1CM = 20 METERS (0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210)
PROFILE: HORIZ 1CM = 20 METERS; VERT 1CM = 2 METERS

NOTES:
1. HORIZONTAL AND VERTICAL CONTROL BASED ON NAD 83 COORDINATES.
2. GANTRY LOCATIONS BASED ON TOLL TRAFFIC AND REVENUE STUDY BY = & ASSOCIATES, DATED =.
3. ALL STATIONS ARE REFERENCED TO SH 121 BASELINE UNLESS NOTED OTHERWISE.
4. COMPLETE REMOVAL OF EXISTING PAVEMENT AND STRUCTURES IS ANTICIPATED WITHIN CONSTRUCTION LIMITS, EXCEPT WHERE SHOWN OTHERWISE.

INDEX OF ROLLS
ROLL 1 AND 2 = PLAN AND PROFILE SH 121 MAIN LANES
ROLL 3 AND 4 = PLAN AND PROFILE US 75 MAIN LANES
ROLL 5 AND 6 = PLAN AND PROFILE US 75 FRONTAGE ROADS
ROLL 7 AND 8 = PROFILES SH 121 FRONTAGE ROADS
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Texas Department of Transportation

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NORTH TEXAS TOLLWAY AUTHORITY

DESIGN
SCHEMATIC PROFILES
SH 121 FRONTAGE ROADS
COLLIN COUNTY, TEXAS

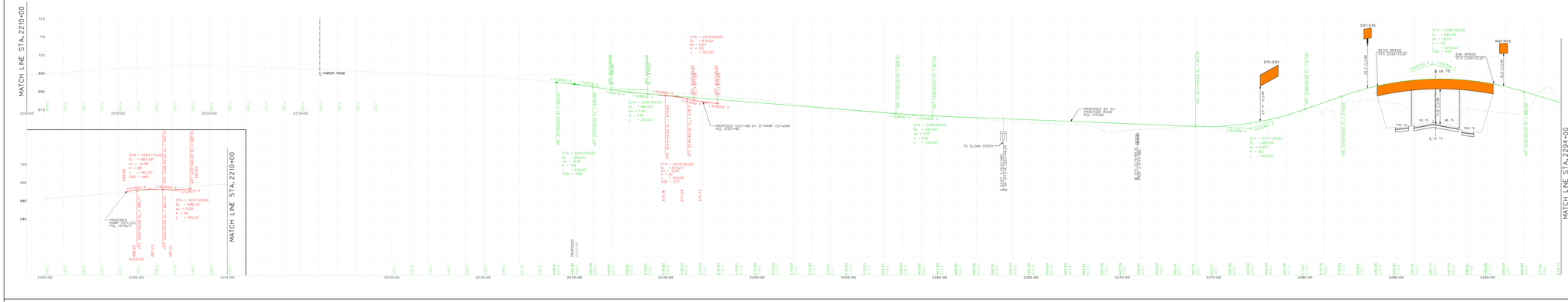
JACOBS
BRIDGEFARMER
SECTION 4

PRELIMINARY - FOR INFORMATION ONLY
These documents are in design flux and are not intended for Construction, Bidding or Permit purposes. They were prepared by or under the supervision of:
NAME: J. HARRY ... DATE: JUNE 2008
NAME: M. SANCHEZ ... DATE: JUNE 2008

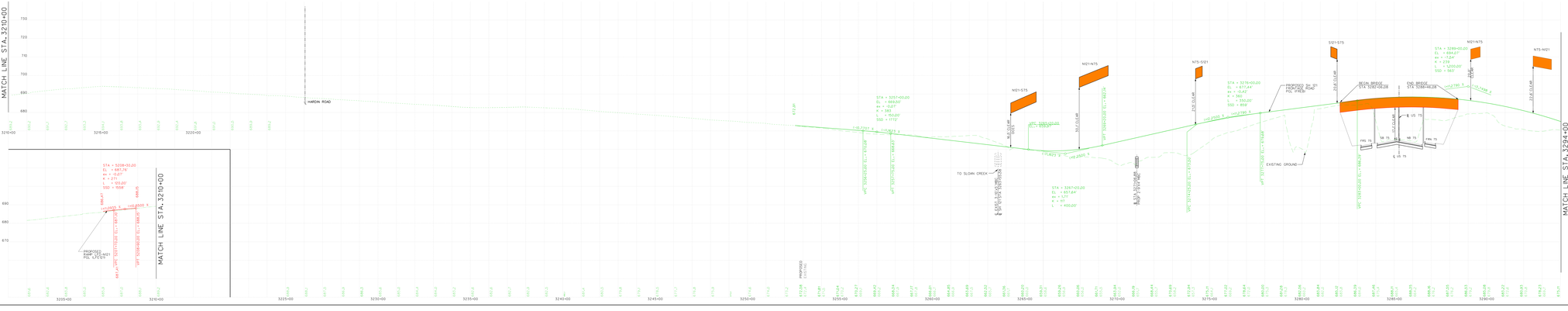
DESIGN: JH | CHECKED: JH | DATE: MAY 2008 | SCALE: 1" = 20' | DATE: MAY 2008 | SCALE: 1" = 100'

CONTRACT: 0276Z-SH 121-04-PS PM ROLL 6 OF 11

SH 121 FRONTAGE ROAD FRS 121



SH 121 FRONTAGE ROAD FRN 121



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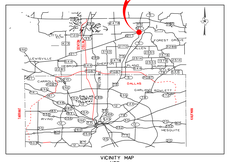

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SH 121 FRONTAGE ROADS
COLLIN COUNTY, TEXAS

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