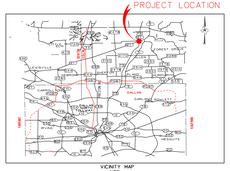
DESIGN SCHEMATIC PROFILES US75 FRONTAGE ROADS SHEET NO. 08

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



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	7169051.7253	2534955.8059	693.210	75 @ STA 6+90.00,98.20 RT
ARS 121-01	7169051.3460	2534955.8197	693.210	121 @ STA 10+00.00,98.20 RT
ARS 121-02	7169051.3460	2532907.6497	675.280	121 @ STA 121+00.00,5149.80 RT
ARS 121-06	7167173.5364	2527384.8236	660.21	121 @ STA 121+00.00,95.08 RT
ARS 121-10	7164765.5705	2524936.2638	576.820	121 @ STA 134+00.00,106.95 LT

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 - 7.8 MILES
US 75 - 5.8 MILES
TOTAL - 13.6 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' CRCP
(B) 4" HMAC (TY. B)
(C) 12' F.B. SBGR W/12' CONC. BARRIER
(D) 14' CRCP
(E) 10' CRCP

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

SCALE
PLAN: 0 50' 100' 200'
PROFILE: HORIZ. 0 50' 100' 200'; VERT. 0 5' 10' 20'

NOTES:
1. HORIZONTAL AND VERTICAL CONTROL BASED ON NAD 83 COORDINATES.
2. GRADES, LOCATIONS BASED ON TOLL TRAFFIC AND REVENUE STUDY BY R.L. BOYLE, DATED 2/2007.
3. ALL STATIONS ARE REFERENCED TO SH 121 BASELINE UNLESS NOTED OTHERWISE.
4. COMPLETE REMOVAL OF EXISTING PAVEMENT AND STRUCTURES IS INTENDED 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 7 = PROFILES US 75 FRONTAGE ROADS
ROLL 8 AND 9 = PROFILES US 75 FRONTAGE ROADS
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Texas Department of Transportation

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CONSULTANT AGREEMENT NO.	DISTRICT	FEDERAL AID PROJECT NO.
	DALLAS	

NTTA NORTH TEXAS TOLLWAY AUTHORITY

SCHEMATIC PROFILES
US 75 FRONTAGE ROADS
COLLIN COUNTY, TEXAS

JACOBS
JACOBS ENGINEERING GROUP INC.
TEXAS REGISTRATION NO. F-2579

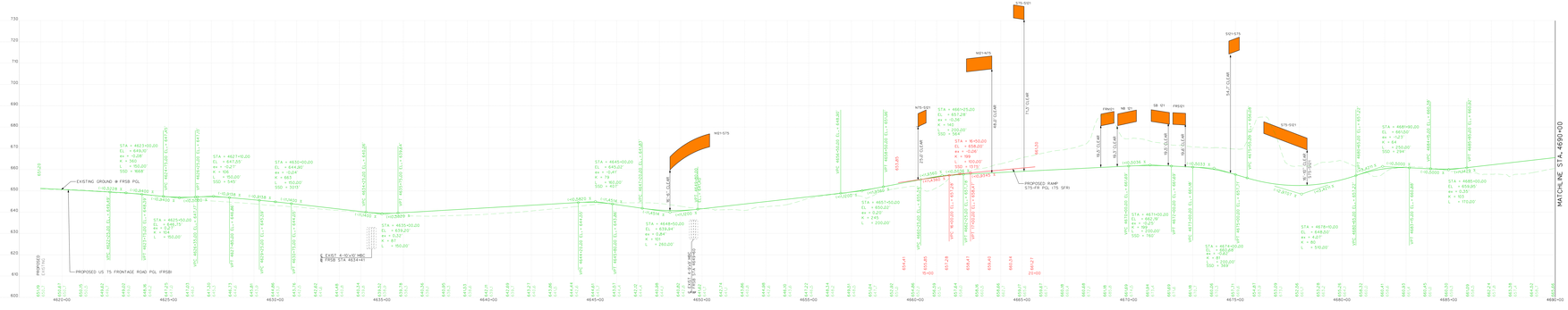
BRIDGEFARMER
SECTION 4

PRELIMINARY - FOR INFORMATION ONLY
These Plans/Specs/Estimates are for review purposes only and are not intended for Construction, Bidding or permit purposes. They were prepared or compiled by or under the supervision of:
NAME: R.J. BARCLAY JR. DATE: JUNE 2008
TEXAS REG. NUMBER: 102311 SEAL: JUNE 2008

DESIGNED	JK	DATE	MAY 2008	DETAILED	JK/JW	DATE	MAY 2008
CHECKED	BF	DATE	MAY 2008	SCALE	1" = 100'		

CONTRACT 02292-SH 121-04-P5-PM ROLL 08 OF 11

US 75 FRONTAGE ROAD FR S75



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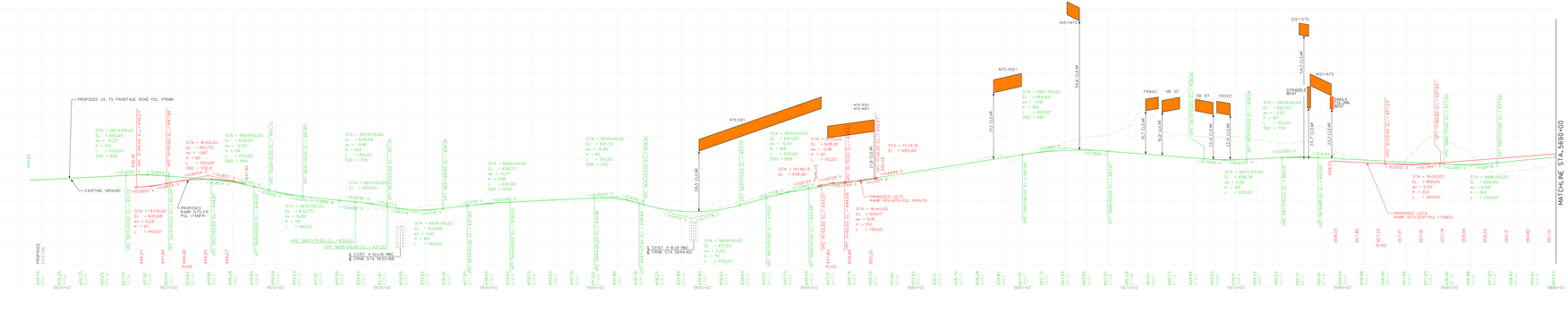

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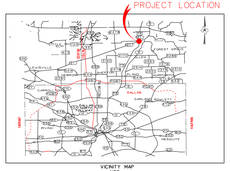

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CONSULTANT AGREEMENT NO. | DISTRICT DALLAS | FEDERAL AID PROJECT NO.

NTTA NORTH TEXAS TOLLWAY AUTHORITY

SCHEMATIC PROFILES
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CONTRACT 02292-SH 121-04-P5-PM ROLL 08 OF 11