TEXAS DEPARTMENT OF TRANSPORTATION – DALLAS DISTRICT

WILLIAM HALE, P.E. – DISTRICT ENGINEER

DESIGN SCHEMATIC

SH 121/DNT INTERCHANGE, COLLIN COUNTY

SH 121: FROM NORTH OF LEGACY DRIVE TO NORTH OF SH 289 (PRESTON ROAD), 2.16 MILES
DNT: FROM SOUTH OF LEGACY DRIVE TO NORTH OF GAYLORD PARKWAY, 1.64 MILES

CSJ: 0364-04-047

DESIGN SPEED

MAINLANES – 70 MPH (URBAN FREEWAY)
SLIP RAMPS – 50 MPH (URBAN ARTERIAL)
DIRECT CONNECTORS – 45 MPH
FRONTAGE ROADS – 50 MPH
CROSS STREETS – 45 MPH

HIGHWAY CLASSIFICATION

OTHER URBAN FREEWAY

DATE APPROVED

DATE SUBMITTED

DATE REVISED

PREPARED BY HNTB
UNDER THE SUPERVISION OF
CHRISTOPHER M. BERGERON, P.E.

SERIAL NO. 72895
DATE:

NOT INTENDED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.

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SLIP RAMP PROPOSED TYPICAL SECTION

DIRECT CONNECTOR RAMP PROPOSED TYPICAL SECTION

℄ DNT STA 1049+00
PROPOSED HALF-SECTION

℄ DNT STA 1103+50
PROPOSED SECTION

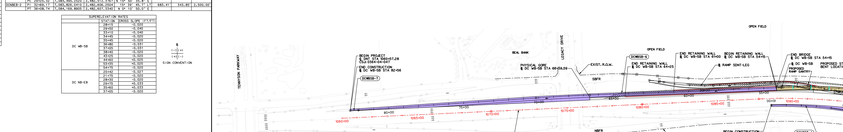
℄ SH 121 EB																				
SCHEDULE 'A'	SH	121EB	NB	1+00.00	1+00.00	0+00.00	0+00.00	0.0°	0.0°	0.0°	0.0°	411.34	0.00	411.34	0.00	0.00	0.00	0.00	0.00	0.00
	SH	121EB	NB	1+00.00	1+00.00	0+00.00	0+00.00	0.0°	0.0°	0.0°	0.0°	411.34	0.00	411.34	0.00	0.00	0.00	0.00	0.00	0.00
SCHEDULE 'B'	SH	121EB	NB	1+00.00	1+00.00	0+00.00	0+00.00	0.0°	0.0°	0.0°	0.0°	112.46	56.73	169.19	0.00	0.00	0.00	0.00	0.00	0.00
	SH	121EB	NB	2+69.73	2+69.73	0+00.00	0+00.00	0.0°	0.0°	0.0°	0.0°	112.46	56.73	169.19	0.00	0.00	0.00	0.00	0.00	0.00
SCHEDULE 'C'	SH	121EB	NB	2+69.73	2+69.73	0+00.00	0+00.00	0.0°	0.0°	0.0°	0.0°	369.38	481.13	850.51	0.00	0.00	0.00	0.00	0.00	0.00
	SH	121EB	NB	7+50.86	7+50.86	0+00.00	0+00.00	0.0°	0.0°	0.0°	0.0°	369.38	481.13	850.51	0.00	0.00	0.00	0.00	0.00	0.00
SCHEDULE 'D'	SH	121EB	NB	7+50.86	7+50.86	0+00.00	0+00.00	0.0°	0.0°	0.0°	0.0°	310.80	176.38	487.18	0.00	0.00	0.00	0.00	0.00	0.00
	SH	121EB	NB	10+61.66	10+61.66	0+00.00	0+00.00	0.0°	0.0°	0.0°	0.0°	310.80	176.38	487.18	0.00	0.00	0.00	0.00	0.00	0.00
SCHEDULE 'E'	SH	121EB	NB	10+61.66	10+61.66	0+00.00	0+00.00	0.0°	0.0°	0.0°	0.0°	114.33	61.12	175.45	0.00	0.00	0.00	0.00	0.00	0.00
	SH	121EB	NB	12+36.79	12+36.79	0+00.00	0+00.00	0.0°	0.0°	0.0°	0.0°	114.33	61.12	175.45	0.00	0.00	0.00	0.00	0.00	0.00

℄ SH 121 EB																				
SCHEDULE 'F'	SH	121EB	NB	12+36.79	12+36.79	0+00.00	0+00.00	0.0°	0.0°	0.0°	0.0°	180.37	176.72	357.09	0.00	0.00	0.00	0.00	0.00	0.00
	SH	121EB	NB	14+17.16	14+17.16	0+00.00	0+00.00	0.0°	0.0°	0.0°	0.0°	180.37	176.72	357.09	0.00	0.00	0.00	0.00	0.00	0.00
SCHEDULE 'G'	SH	121EB	NB	14+17.16	14+17.16	0+00.00	0+00.00	0.0°	0.0°	0.0°	0.0°	181.37	161.80	343.17	0.00	0.00	0.00	0.00	0.00	0.00
	SH	121EB	NB	15+98.53	15+98.53	0+00.00	0+00.00	0.0°	0.0°	0.0°	0.0°	181.37	161.80	343.17	0.00	0.00	0.00	0.00	0.00	0.00

SUPERELEVATION RATES	
	℄ DNT
DC 45-135	0.04
	0.04
	0.04
	0.04
	0.04
	0.04
	0.04
DC 45-135	0.04
	0.04
	0.04
	0.04
	0.04
	0.04
	0.04

SUNK CONDUIT ON

DRAFT ℄ ℄ ALIGNS
NOT TO SCALE

THESE ARE PRELIMINARY DESIGN CONCEPTS

Subject to change based on further developments identified in the environmental clearance process.