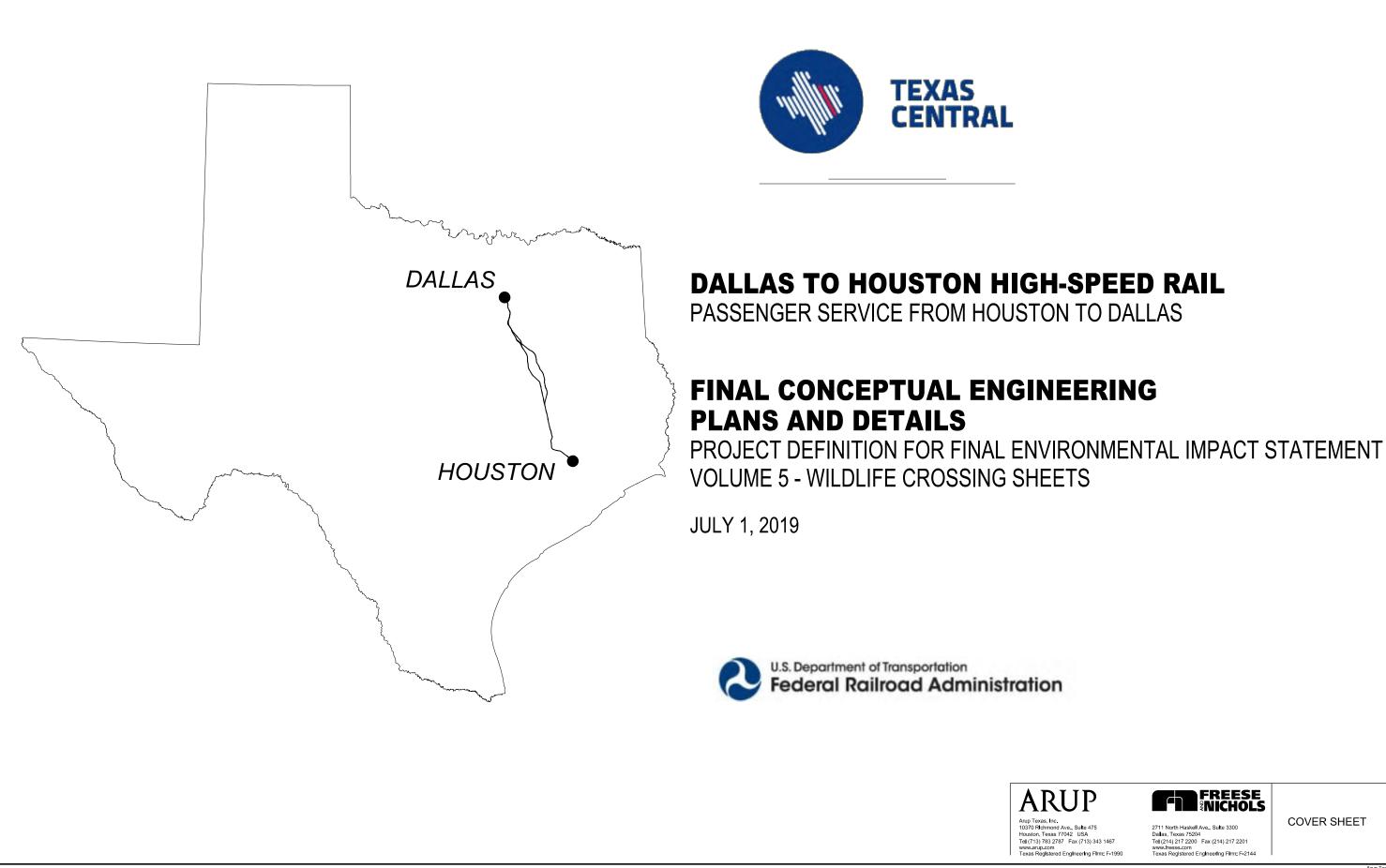
# Dallas to Houston High-Speed Rail Final Environmental Impact Statement

Appendix G: Dallas to Houston High-Speed Rail Passenger Service from Houston to Dallas Final Conceptual Engineering Plans and Details Set 14 of 14

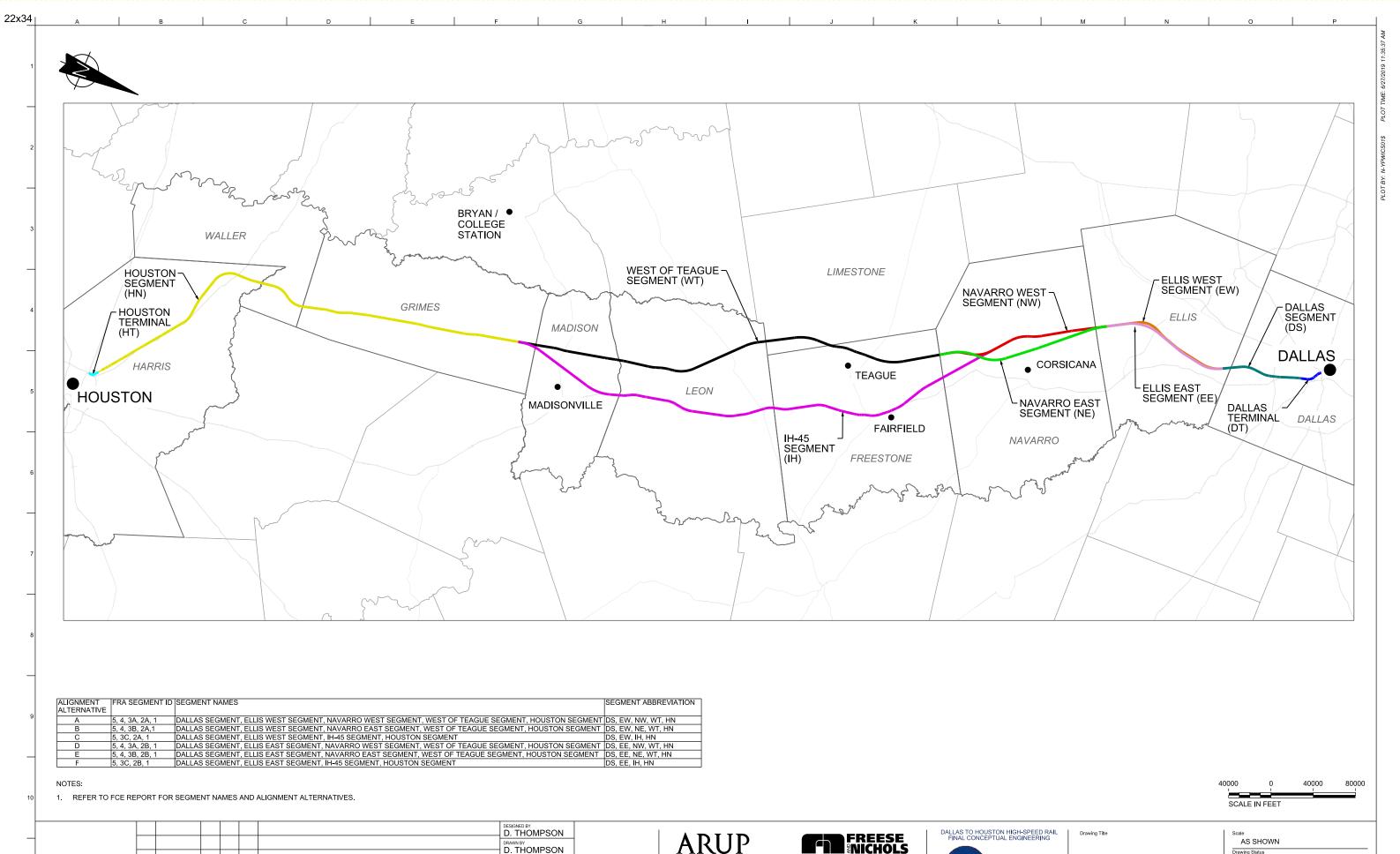






2711 North Haskell Ave., Suite 3300 Dallas, Texas 75204 Tel (214) 217 2200 Fax (214) 217 2201 www.freese.com Texas Registered Engineering Firm; F-2144 COVER SHEET

Arup Texas II



ALIGNMENT ALTERNATIVE	FRA SEGMENT ID	SEGMENT NAMES	SEGMENT ABBREVIATION
A	5, 4, 3A, 2A, 1	DALLAS SEGMENT, ELLIS WEST SEGMENT, NAVARRO WEST SEGMENT, WEST OF TEAGUE SEGMENT, HOUSTON SEGMENT	DS, EW, NW, WT, HN
В	5, 4, 3B, 2A,1	DALLAS SEGMENT, ELLIS WEST SEGMENT, NAVARRO EAST SEGMENT, WEST OF TEAGUE SEGMENT, HOUSTON SEGMENT	DS, EW, NE, WT, HN
C	5, 3C, 2A, 1	DALLAS SEGMENT, ELLIS WEST SEGMENT, IH-45 SEGMENT, HOUSTON SEGMENT	DS, EW, IH, HN
D	5, 4, 3A, 2B, 1	DALLAS SEGMENT, ELLIS EAST SEGMENT, NAVARRO WEST SEGMENT, WEST OF TEAGUE SEGMENT, HOUSTON SEGMENT	DS, EE, NW, WT, HN
E	5, 4, 3B, 2B, 1	DALLAS SEGMENT, ELLIS EAST SEGMENT, NAVARRO EAST SEGMENT, WEST OF TEAGUE SEGMENT, HOUSTON SEGMENT	DS, EE, NE, WT, HN
F	5, 3C, 2B, 1	DALLAS SEGMENT, ELLIS EAST SEGMENT, IH-45 SEGMENT, HOUSTON SEGMENT	DS, EE, IH, HN

			_	-					
							D. THOMPSON		DALLAS TO HOUSTON HIGH-SPEED RAIL
							DRAWN BY D. THOMPSON	ARUP <b>FREESE</b>	FINAL CONCEPTUAL ENGINEERING
								Arup Texas, Inc.	
							IN CHARGE	10370 Richmond Ave., Suite 475 2711 North Haskell Ave., Suite 3300 Houston, Texas 77042 USA Dallas, Texas 75204	CENTRAL
							C. TAYLOR	Tel (713) 783 2787 Fax (713) 343 1467 Tel (214) 217 2200 Fax (214) 217 2201 www.arup.com www.freese.com Texas Registered Engineering Firm: F-1990 Texas Registered Engineering Firm: F-2144	
	REV	DATE	BY	СНК	APP	DESCRIPTION	02/25/2019		1409 South Lamar Street, Sulte 1022, Dallas.Texas 752
\\N-YPWICS01\ICS Temp\44199\3121_87\23	4180 <b>-</b> AFN	GEN-DWG-00-0000	02-V002.d	gn					

Dallas.Texas	75215

GENERAL

LOCATION PLAN

Arup Texas Inc.

FINAL

Prawing No

GEN-00-00002 01

Job No

234180

22x34+		F G H H I I H K	
-	VOLUME 1A - GENERAL SHEETS & TYPICAL SECTIONS	VOLUME 2A - RAILWAY ALIGNMENT PLAN AND PROFILE SHEETS	VOLUME 2A - RAI
	DRAWING NO. DRAWING DESCRIPTIONS	DRAWING NO. DRAWING DESCRIPTIONS	DRAWING NO.
	1A-1 GENERAL	2A-1 HOUSTON SEGMENT	2A-1 H
1	COVER SHEET	CVL-HN-01101 HOUSTON SEGMENT - CIVIL - KEY MAP - SHEET 1 OF 4 - HT1 10+00 TO HN1 1024+00	CVL-HN-01155 HOUST
	GEN-00-00002 GENERAL - LOCATION PLAN	CVL-HN-01102 HOUSTON SEGMENT - CIVIL - KEY MAP - SHEET 2 OF 4 - HN1 1024+00 TO HN1 2088+00	CVL-HN-01155-A HOUST
	GEN-00-00003 GENERAL - INDEX SHEET 1 OF 5	CVL-HN-01103 HOUSTON SEGMENT - CIVIL - KEY MAP - SHEET 3 OF 4 - HN1 2088+00 TO HN2 814+00	CVL-HN-01155-B HOUST
	GEN-00-00004 GENERAL - INDEX SHEET 2 OF 5	CVL-HN-01104 HOUSTON SEGMENT - CIVIL - KEY MAP - SHEET 4 OF 4 - HN2 814+00 TO HN2 2073+80	CVL-HN-01156 HOUST
_	GEN-00-00005 GENERAL - INDEX SHEET 3 OF 5	CVL-HN-01105 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HT1 10+00 TO HT1 38+00	CVL-HN-01156-A HOUST
	GEN-00-00006 GENERAL - INDEX SHEET 4 OF 5	CVL-HN-01106 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HT1 38+00 TO HT1 60+00	CVL-HN-01157 HOUST
	GEN-00-00007 GENERAL - INDEX SHEET 5 OF 5	CVL-HN-01107 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HT1 60+00 TO HT1 88+00	CVL-HN-01157-A HOUST
	GEN-00-00008 GENERAL - NOTES	CVL-HN-01108 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HT1 88+00 TO HN1 16+00	CVL-HN-01158 HOUST
2	GEN-00-00009 GENERAL - ABBREVIATIONS AND LEGEND	CVL-HN-01107-2 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HT2 10+00 TO HT2 34+00	RDY-HN-01158A HOUST
	GEN-00-00010 GENERAL - RAIL ANNOTATION TO CLARIFY DESIGN INTENT	CVL-HN-01108-2 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HT2 34+00 TO HN1 16+00	CVL-HN-01159 HOUST
	1A-2 RAILWAY TYPICAL SECTIONS	CVL-HN-01107-3 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HT3 10+00 TO HT3 33+00	CVL-HN-01159-A HOUST
	CVL-00-03001 GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 1 OF 13	CVL-HN-01108-3 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HT3 33+00 TO HN1 16+00	CVL-HN-01160 HOUST
	CVL-00-03002 GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 2 OF 13	CVL-HN-01109 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 16+00 TO HN1 44+00	CVL-HN-01161 HOUST
	CVL-00-03003 GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 3 OF 13	CVL-HN-01110 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 44+00 TO HN1 72+00	CVL-HN-01162 HOUST
	CVL-00-03004 GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 4 OF 13	CVL-HN-01111 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 72+00 TO HN1 100+00	CVL-HN-01162-A HOUST
2	CVL-00-03005 GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 5 OF 13	CVL-HN-01112 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 100+00 TO HN1 128+00	CVL-HN-01163 HOUST
3	CVL-00-03006 GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 6 OF 13	CVL-HN-01113 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 128+00 TO HN1 156+00	CVL-HN-01164 HOUST
	CVL-00-03007 GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 7 OF 13	CVL-HN-01114 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 156+00 TO HN1 184+00	CVL-HN-01165 HOUST
	CVL-00-03008 GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 8 OF 13	CVL-HN-01115 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 184+00 TO HN1 212+00	CVL-HN-01166 HOUST
	CVL-00-03009 GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 9 OF 13	CVL-HN-01116 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 212+00 TO HN1 240+00	CVL-HN-01167 HOUST
	CVL-00-03010 GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 10 OF 13	CVL-HN-01117 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 240+00 TO HN1 268+00	CVL-HN-01168 HOUST
	CVL-00-03011 GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 11 OF 13	CVL-HN-01118 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 268+00 TO HN1 296+00	CVL-HN-01169 HOUST
	CVL-00-03012 GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 12 OF 13	CVL-HN-01119 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 296+00 TO HN1 324+00	CVL-HN-01170 HOUST

		GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 10 OF 13
	CVL-00-03011	GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 11 OF 13
	CVL-00-03012	GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 12 OF 13
4	CVL-00-03013	GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 13 OF 13
"		1A-3 ROADWAY AND GRADE SEPARATION TYPICAL SECTIONS
	CVL-00-03030	GENERAL - CIVIL HIGHWAY - TYPICAL SECTIONS SHEET 1 OF 4
		GENERAL - CIVIL HIGHWAY - TYPICAL SECTIONS SHEET 2 OF 4
_		GENERAL - CIVIL HIGHWAY - TYPICAL SECTIONS SHEET 3 OF 4
		GENERAL - CIVIL HIGHWAY - TYPICAL SECTIONS SHEET 3 OF 4
	CVL-00-03034	GENERAL - CIVIL HIGHWAY - ROAD OVER RAIL GRADE SEPARATION
		1A-4 CIVIL STRUCTURES TYPICAL DETAILS
5		GENERAL - CIVIL STRUCTURES - STRUCTURAL VIADUCT-TYPICAL DETAIL
		GENERAL - CIVIL STRUCTURES - STRADDLE BENT- SHEET 1 OF 2
		GENERAL - CIVIL STRUCTURES - STRADDLE BENT- SHEET 2 OF 2
		GENERAL - CIVIL STRUCTURES - RETAINED FILL - TYPICAL DETAIL
_		GENERAL - CIVIL STRUCTURES - RETAINED CUT - TYPICAL DETAIL
		GENERAL - CIVIL STRUCTURES - CULVERT AND ANIMAL CROSSING- SHEET 1 OF 2
		GENERAL - CIVIL STRUCTURES - CULVERT AND ANIMAL CROSSING- SHEET 2 OF 2
		GENERAL - CIVIL STRUCTURES - CULVERT TYPICAL DETAIL - SHEET 1 OF 2
6		GENERAL - CIVIL STRUCTURES - CULVERT TYPICAL DETAIL - SHEET 2 OF 2
		GENERAL - CIVIL STRUCTURES - WILDLIFE CROSSINGS FENCE DETAILS
		GENERAL - CIVIL STRUCTURES - SLAB BRIDGE TYPICAL DETAIL
		GENERAL - CIVIL STRUCTURES - HONEY SPRING CEMETERY - NETWORK TIED ARCH
-		GENERAL - CIVIL STRUCTURES - NETWORK TIED ARCH - ELEVATION
		GENERAL - CIVIL STRUCTURES - NETWORK TIED ARCH - SECTION
		GENERAL - CIVIL STRUCTURES - NETWORK TIED ARCH - DETAILS
		1A-5 CIVIL UTILITIES TYPICAL DETAILS
7		GENERAL - CIVIL UTILITIES - TYPICAL CROSSING DETAIL - SHEET 1 OF 1
		1A-6 GENERAL - ALIGNMENT CURVE DATA TABLES
		GENERAL - ALIGNMENT AND CURVE DATA SHEET 1 OF 2
		GENERAL - ALIGNMENT AND CURVE DATA SHEET 2 OF 2
_	VOLUME 1B	- GENERAL SHEETS & TYPICAL SECTIONS
	DRAWING NO.	DRAWING DESCRIPTIONS
	GEN-00-00011	GENERAL - ROADWAY ANNOTATION TO CLARIFY DESIGN INTENT
8		1B-1 RAILWAY TYPICAL SECTIONS
		GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 1 OF 11
		GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 2 OF 11
	CVL-00-03003B	
	CVI_00_03004B	CENERAL CIVIL RALL TYRICAL SECTIONS SHEET 4 OF 11

CVL-00-03004B GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 4 OF 11

CVL-00-03005B GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 5 OF 11

CVL-00-03006B GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 6 OF 11

CVL-00-03007B GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 7 OF 11

CVL-00-03008B GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 8 OF 11

CVL-00-03009B GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 9 OF 11

CVL-00-03010B GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 10 OF 11

CVL-00-03011B GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 11 OF 11

CVL-00-03033B GENERAL - CIVIL HIGHWAY - TYPICAL SECTIONS - SHEET 1 OF 2

CVL-00-03034B GENERAL - CIVIL HIGHWAY - TYPICAL SECTIONS - SHEET 2 OF 2

1B-2 ROADWAY AND GRADE SEPARATION TYPICAL SECTIONS

T 2 OF 2	CVL-HN-01131-A HOUSTON SEGMENT - CIVIL - PLAN
2	CVL-HN-01131-B HOUSTON SEGMENT - CIVIL - PLAN
) -	CVL-HN-01132 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 660+00 TO HN1 688+00
	CVL-HN-01132-A HOUSTON SEGMENT - CIVIL - PLAN
	CVL-HN-01133 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 688+00 TO HN1 716+00
FIED ARCH	CVL-HN-01134 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 716+00 TO HN1 744+00
	CVL-HN-01135 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 744+00 TO HN1 772+00
	CVL-HN-01136 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 772+00 TO HN1 800+00
	CVL-HN-01136-A HOUSTON SEGMENT - CIVIL - PLAN
	CVL-HN-01137 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 800+00 TO HN1 828+00
	CVL-HN-01138 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 828+00 TO HN1 856+00
	CVL-HN-01139 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 856+00 TO HN1 884+00
	CVL-HN-01140 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 884+00 TO HN1 912+00
	CVL-HN-01141 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 912+00 TO HN1 940+00
	CVL-HN-01142 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 940+00 TO HN1 968+00
	CVL-HN-01143 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 968+00 TO HN1 996+00
	CVL-HN-01143-A HOUSTON SEGMENT - CIVIL - PLAN
	CVL-HN-01144 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 996+00 TO HN1 1024+00
	CVL-HN-01145 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 1024+00 TO HN1 1080+00
	CVL-HN-01146 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 1080+00 TO HN1 1136+00
	CVL-HN-01147 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 1136+00 TO HN1 1192+00
	CVL-HN-01147-A HOUSTON SEGMENT - CIVIL - PLAN
	CVL-HN-01147-BHOUSTON SEGMENT - CIVIL - PLAN
	CVL-HN-01148 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 1192+00 TO HN1 1248+00
	CVL-HN-01149 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 1248+00 TO HN1 1304+00
	CVL-HN-01149-A HOUSTON SEGMENT - CIVIL - PLAN
	CVL-HN-01150 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 1304+00 TO HN1 1360+00
	CVL-HN-01151 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 1360+00 TO HN1 1416+00
	CVL-HN-01152 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 1416+00 TO HN1 1472+00
	CVL-HN-01152-A HOUSTON SEGMENT - CIVIL - PLAN
	CVL-HN-01153 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 1472+00 TO HN1 1528+00
	CVL-HN-01154 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 1528+00 TO HN1 1584+00
	CVL-HN-01154-A HOUSTON SEGMENT - CIVIL - PLAN
	CVL-HN-01154-B HOUSTON SEGMENT - CIVIL - PLAN - HN1 1528+00 - HN1 1584+00

CVL-HN-01119-A HOUSTON SEGMENT - CIVIL - PLAN

CVL-HN-01120 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 324+00 TO HN1 352+00

 CVL-HN-01121
 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 352+00 TO HN1 380+00

 CVL-HN-01122
 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 380+00 TO HN1 408+00

CVL-HN-01123 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 408+00 TO HN1 436+00

CVL-HN-01124 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 436+00 TO HN1 464+00 CVL-HN-01124-A HOUSTON SEGMENT - CIVIL - PLAN

CVL-HN-01125 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 464+00 TO HN1 492+00 CVL-HN-01126 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 492+00 TO HN1 520+00

CVL-HN-01127 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 520+00 TO HN1 548+00

CVL-HN-01128 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 548+00 TO HN1 576+00 CVL-HN-01129HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 576+00 TO HN1 604+00CVL-HN-01130HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 604+00 TO HN1 632+00CVL-HN-01140HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 604+00 TO HN1 632+00

CVL-HN-01131 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 632+00 TO HN1 660+00

						D. THOMPSON		DALLAS TO HOUSTON HIGH-SPEED RAIL FINAL CONCEPTUAL ENGINEERING
						D. THOMPSON CHECKED BY R. BURNS	Arup Texas, Inc. 10370 Richmond Ave., Sulte 475 Houston, Texas 77042 USA Dallas, Texas 75204	
REV	DATE	BY	СНК	APP	DESCRIPTION	C. TAYLOR DATE 02/25/2019	Tel (713) 783 2787 Fax (713) 343 1467 Tel (214) 217 2200 Fax (214) 217 2201 www.arup.com www.freese.com www.freese.com	409 South Lamar Street, Sulte 1022, Dallas.Texas 752

L			N	0 P
	- RAILWAY A	LIGNMENT PLA		
DRAWING NO.	2A-1 HOUSTON		AWING DESCRIPTI	ONS
	HOUSTON SEGN	1ENT - CIVIL - PLAN AN	ID PROFILE - HN1 :	1584+00 TO HN1 1640+00
		1ENT - CIVIL - PLAN		
CVL-HN-01155-B	HOUSTON SEGN	<u>1ENT - CIVIL - PLAN</u> 1ENT - CIVII - PLAN AN	ID PROFILE - HN1	1640+00 TO HN1 1696+00
CVL-HN-01156-A	HOUSTON SEGN	1ENT - CIVIL - PLAN		
			D PROFILE - HN1 :	1696+00 TO HN1 1752+00
		<u>1ENT - CIVIL - PLAN</u> 1ENT - CIVIL - PLAN AN	D PROFILE - HN1 :	1752+00 TO HN1 1808+00
RDY-HN-01158A	HOUSTON SEGN	<u> 1ENT - CIVIL HIGHWAY</u>	- PLAN - WALLER	SPRING CREEK RD
		<u>1ENT - CIVIL - PLAN AN</u> 1ENT - CIVIL - PLAN	D PROFILE - HN1 :	1808+00 TO HN1 1864+00
CVL-HN-01160	HOUSTON SEGN	1ENT - CIVIL - PLAN AN	D PROFILE - HN1	1864+00 TO HN1 1920+00
CVL-HN-01161				1920+00 TO HN1 1976+00
CVL-HN-01162 CVL-HN-01162-A		<u>1ENT - CIVIL - PLAN AN</u> 1ENT - CIVIL - PLAN	ID PROFILE - HN1 :	1976+00 TO HN1 2032+00
CVL-HN-01163			D PROFILE - HN1 2	2032+00 TO HN1 2088+00
CVL-HN-01164 CVL-HN-01165				2088+00 TO HN1 2144+00
CVL-HN-01165				2144+00 TO HN1 2200+00 2200+00 TO HN1 2256+00
CVL-HN-01167	HOUSTON SEGN	1ENT - CIVIL - PLAN AN	ID PROFILE - HN1 2	2256+00 TO HN1 2312+00
CVL-HN-01168 CVL-HN-01169				2 <u>312+00 TO HN1 2368+00</u> 2368+00 TO HN2 30+00
CVL-HN-01109		1ENT - CIVIL - PLAN AN 1ENT - CIVIL - PLAN AN		
CVL-HN-01171	HOUSTON SEGN	1ENT - CIVIL - PLAN AN	ID PROFILE - HN2 8	36+00 TO HN2 142+00
CVL-HN-01172				142+00 TO HN2 198+00
CVL-HN-01173 CVL-HN-01174				<u>198+00 TO HN2 254+00</u> 254+00 TO HN2 310+00
CVL-HN-01175	HOUSTON SEGM	1ENT - CIVIL - PLAN AN		310+00 TO HN2 366+00
		1ENT - CIVIL - PLAN		
CVL-HN-01176 CVL-HN-01177				<u>366+00 TO HN2 422+00</u> 422+00 TO HN2 478+00
		1ENT - CIVIL - PLAN		
CVL-HN-01178	HOUSTON SEGN	<u> 1ENT - CIVIL - PLAN AN</u>		478+00 TO HN2 534+00
CVL-HN-01179 CVL-HN-01180				534+00 TO HN2 590+00 590+00 TO HN2 646+00
CVL-HN-01181				546+00 TO HN2 702+00
CVL-HN-01182				702+00 TO HN2 758+00
CVL-HN-01183 CVL-HN-01184				758+00 TO HN2 814+00
RDY-HN-01184A		1ENT - CIVIL - PLAN AN		814+00 TO HN2 870+00
CVL-HN-01185	HOUSTON SEGM	1ENT - CIVIL - PLAN AN	ID PROFILE - HN2 8	370+00 TO HN2 926+00
CVL-HN-01186 CVL-HN-01187				926+00 TO HN2 982+00
CVL-HN-01187				982+00 TO HN2 1038+00 1038+00 TO HN2 1094+00
RDY-HN-01188A		1ENT - CIVIL HIGHWAY		
CVL-HN-01189				1094+00 TO HN2 1150+00
CVL-HN-01190 CVL-HN-01191				<u>1150+00 TO HN2 1206+00</u> 1206+00 TO HN2 1262+00
CVL-HN-01192				1262+00 TO HN2 1318+00
CVL-HN-01192-B		1ENT - CIVIL - PLAN		
CVL-HN-01193 RDY-HN-01193A		<u>1ENT - CIVIL - PLAN AN</u> 1ENT - CIVIL HIGHWAY		1318+00 TO HN2 1374+00
CVL-HN-01194				1374+00 TO HN2 1430+00
CVL-HN-01195	HOUSTON SEGN	1ENT - CIVIL - PLAN AN	ID PROFILE - HN2 1	1430+00 TO HN2 1486+00
CVL-HN-01196 CVL-HN-01197				<u>1486+00 TO HN2 1542+00</u> 1542+00 TO HN2 1598+00
RDY-HN-01197A				8+00 TO HN2 1614+00
CVL-HN-01198	HOUSTON SEGN	1ENT - CIVIL - PLAN AN	ID PROFILE - HN2 1	1598+00 TO HN2 1654+00
CVL-HN-01199 CVL-HN-01200				<u>1654+00 TO HN2 1710+00</u> 1710+00 TO HN2 1766+00
CVL-HN-01200				1766+00 TO HN2 1768+00
CVL-HN-01202	HOUSTON SEGN	1ENT - CIVIL - PLAN AN	D PROFILE - HN2	1822+00 TO HN2 1878+00
CVL-HN-01203			D PROFILE - HN2	1878+00 TO HN2 1934+00
CVL-HN-01203-A CVL-HN-01204		<u>1ENT - CIVIL - PLAN</u> 1ENT - CIVIL - PLAN AN	ID PROFILE - HN2	1934+00 TO HN2 1990+00
CVL-HN-01205				1990+00 TO HN2 2046+00
CVL-HN-01206			ID PROFILE - HN2 2	2046+00 TO HN2 2073+80
CVL-WT-01250		<b>FEAGUE SEGMENT</b>	ΈΥ ΜΔΡ - <b>SHEET</b> 1	OF 4 - WT 10+00 TO WT 1130+00
CVL-WT-01250				OF 4 - WT 10+00 TO WT 1130+00 OF 4 - WT 1130+00 TO WT 2250+00
CVL-WT-01252				OF 4 - WT 2250+00 TO WT 3370+00
DALLAS TO HOUSTON FINAL CONCEPTUA	N HIGH-SPEED RAIL	Drawing Title		Scale
				NO SCALE

22, Dallas.Texas 75215

GENERAL **INDEX SHEET 1 OF 5** 

NO SCALE Drawing Status 234180

FINAL rawing No

GEN-00-00003 01

# VOLUME 2A - RAILWAY ALIGNMENT PLAN AND PROFILE SHEETS

#### VOLUME 2A - RAILWAY ALIGNMENT PLAN AND PROFILE SHEETS

VOLUME 2A

<u> DLUME 2A - RAILWAY ALIGNMENT PLAN AND PROFILE SHEETS</u>	VOLUME 2A - RAILWAY ALIGNMENT PLAN AND PROFILE SHEETS
RAWING NO. DRAWING DESCRIPTIONS	DRAWING NO. DRAWING DESCRIPTIONS
2A-2 WEST OF TEAGUE SEGMENT	2A-2 WEST OF TEAGUE SEGMENT
-WT-01253 WEST OF TEAGUE SEGMENT - CIVIL - KEY MAP - SHEET 4 OF 4 - WT 3370+00 TO WT 4118+87	
-WT-01254 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 10+00 TO WT 66+00	CVL-WT-01315 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3426+00 TO WT 3482+00
WT-01255 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 66+00 TO WT 122+00	CVL-WT-01315-A WEST OF TEAGUE SEGMENT - CIVIL - PLAN
WT-01256 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 122+00 TO WT 178+00	CVL-WT-01316 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3482+00 TO WT 3538+00
-WT-01257 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 178+00 TO WT 234+00	CVL-WT-01317 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3538+00 TO WT 3594+00
-WT-01258 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 234+00 TO WT 290+00	CVL-WT-01318 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3594+00 TO WT 3650+00
-WT-01259 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 290+00 TO WT 346+00	CVL-WT-01319 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3650+00 TO WT 3706+00
-WT-01260 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 346+00 TO WT 402+00	CVL-WT-01320 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3706+00 TO WT 3762+00
-WT-01261 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 402+00 TO WT 458+00	CVL-WT-01321 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3762+00 TO WT 3818+00
WT-01261-A WEST OF TEAGUE SEGMENT - CIVIL - PLAN	CVL-WT-01322 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3818+00 TO WT 3874+00
-WT-01262 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 458+00 TO WT 514+00	RDY-WT-01322A WEST OF TEAGUE SEGMENT - CIVIL HIGHWAY - PLAN - FM 1566
-WT-01263 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 514+00 TO WT 570+00	CVL-WT-01323 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3874+00 TO WT 3930+00
-WT-01264 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 570+00 TO WT 626+00	CVL-WT-01324 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3930+00 TO WT 3986+00
L-WT-01265 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 626+00 TO WT 682+00	CVL-WT-01325 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3986+00 TO WT 4042+00
WT-01266 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 682+00 TO WT 738+00	RDY-WT-01325A WEST OF TEAGUE SEGMENT - CIVIL HIGHWAY - PLAN - CR 995
L-WT-01267 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 738+00 TO WT 794+00	CVL-WT-01326 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 4042+00 TO WT 4098+00
-WT-01267-A WEST OF TEAGUE SEGMENT - CIVIL - PLAN	CVL-WT-01326-A WEST OF TEAGUE SEGMENT - CIVIL - PLAN
-WT-01268 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 794+00 TO WT 850+00	CVL-WT-01327 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 4098+00 TO WT 4118+87
-WT-01269 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 850+00 TO WT 906+00	2A-3 NAVARRO WEST SEGMENT
-WT-01270 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 906+00 TO WT 962+00	CVL-NW-01500 NAVARRO WEST SEGMENT - CIVIL - KEY MAP - SHEET 1 OF 2 - NW 10+00 TO NW 1130+00
WT-01270-A WEST OF TEAGUE SEGMENT - CIVIL - PLAN	CVL-NW-01501 NAVARRO WEST SEGMENT - CIVIL - KEY MAP - SHEET 2 OF 2 - NW 1130+00 TO NW 1638+12
-WT-01271 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 962+00 TO WT 1018+00	CVL-NW-01502 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 10+00 TO NW 66+00
WT-01271-A WEST OF TEAGUE SEGMENT - CIVIL - PLAN	CVL-NW-01503 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 66+00 TO NW 122+00
-WT-01272 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1018+00 TO WT 1074+00	CVL-NW-01503-A NAVARRO WEST SEGMENT - CIVIL - PLAN
-WT-01273 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1074+00 TO WT 1130+00	CVL-NW-01504 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 122+00 TO NW 178+00
-WT-01274 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1130+00 TO WT 1186+00	CVL-NW-01505 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 178+00 TO NW 234+00
WT-01275 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1186+00 TO WT 1242+00	CVL-NW-01506 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 234+00 TO NW 290+00
-WT-01276 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1242+00 TO WT 1298+00	CVL-NW-01507 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 290+00 TO NW 346+00
-WT-01277 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1298+00 TO WT 1354+00	CVL-NW-01507-A NAVARRO WEST SEGMENT - CIVIL - PLAN
-WT-01278 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1354+00 TO WT 1410+00	CVL-NW-01508 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 346+00 TO NW 402+00
-WT-01279 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1410+00 TO WT 1466+00	CVL-NW-01509 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 402+00 TO NW 458+00
-WT-01280 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1466+00 TO WT 1522+00	RDY-NW-01509A NAVARRO WEST SEGMENT - CIVIL HIGHWAY - PLAN - CR 0040
-WT-01281 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1522+00 TO WT 1578+00	CVL-NW-01510 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 458+00 TO NW 514+00
-WT-01282 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1578+00 TO WT 1634+00	CVL-NW-01511 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 514+00 TO NW 570+00
-WT-01283 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1634+00 TO WT 1690+00	CVL-NW-01511-A NAVARRO WEST SEGMENT - CIVIL - PLAN
-WT-01284 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1690+00 TO WT 1746+00	CVL-NW-01512 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 570+00 TO NW 626+00
WT-01284-A WEST OF TEAGUE SEGMENT - CIVIL - PLAN	RDY-NW-01512A NAVARRO WEST SEGMENT - CIVIL HIGHWAY - PLAN - FM 709
-WT-01285 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1746+00 TO WT 1802+00	CVL-NW-01513 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 626+00 TO NW 682+00
-WT-01286 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1802+00 TO WT 1858+00	CVL-NW-01514 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 682+00 TO NW 738+00
-WT-01287 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1858+00 TO WT 1914+00	CVL-NW-01515 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 738+00 TO NW 794+00
-WT-01288 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1914+00 TO WT 1970+00	CVL-NW-01516 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 794+00 TO NW 850+00
-WT-01289 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1970+00 TO WT 2026+00	CVL-NW-01517 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 850+00 TO NW 906+00
-WT-01290 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2026+00 TO WT 2082+00	CVL-NW-01517-A NAVARRO WEST SEGMENT - CIVIL - PLAN
-WT-01291 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2082+00 TO WT 2138+00	CVL-NW-01518 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 906+00 TO NW 962+00
-WT-01292 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2138+00 TO WT 2194+00	CVL-NW-01519 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 962+00 TO NW 1018+00
-WT-01293 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2194+00 TO WT 2250+00	CVL-NW-01520 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 1018+00 TO NW 1074+00
L-WT-01294 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2250+00 TO WT 2306+00	CVL-NW-01521 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 1010-100 NW 1130+00
-WT-01294A WEST OF TEAGUE SEGMENT - CIVIL HIGHWAY - PLAN - FM 1512	CVL-NW-01522 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 100-FICE TO NW 1130-00
-WT-01295 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2306+00 TO WT 2362+00	CVL-NW-01523 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 1186+00 TO NW 1242+00
WT-01295-A WEST OF TEAGUE SEGMENT - CIVIL - PLAN	CVL-NW-01523-A NAVARRO WEST SEGMENT - CIVIL - PLAN
-WT-01296 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2362+00 TO WT 2418+00	CVL-NW-01524 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 1242+00 TO NW 1298+00
-WT-01297 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2418+00 TO WT 2474+00	CVL-NW-01525 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 1298+00 TO NW 1354+00
NT-01297-A WEST OF TEAGUE SEGMENT - CIVIL - PLAN	CVL-NW-01526 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 1354+00 TO NW 1410+00
WT-01298 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2474+00 TO WT 2530+00	CVL-NW-01527 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 1410+00 TO NW 1466+00
-WT-01299 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2530+00 TO WT 2586+00	RDY-NW-01527A NAVARRO WEST SEGMENT - CIVIL HIGHWAY - PLAN - CR 1300
-WT-01300 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2586+00 TO WT 2642+00	CVL-NW-01528 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 1466+00 TO NW 1522+00
-WT-01301 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2642+00 TO WT 2698+00	CVL-NW-01529 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 1400-00 TO NW 1522-00
-WT-01302 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2698+00 TO WT 2754+00	CVL-NW-01530 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 1578+00 TO NW 1634+00
VT-01302-A WEST OF TEAGUE SEGMENT - CIVIL - PLAN	CVL-NW-01531 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 1634+00 TO NW 1638+12
WT-01303 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2754+00 TO WT 2810+00	2A-4 ELLIS WEST SEGMENT
WT-01304 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2810+00 TO WT 2866+00	CVL-EW-01700 ELLIS WEST SEGMENT - CIVIL - KEY MAP - SHEET 1 OF 2 - EW 10+00 TO EW 1130+00
WT-01305 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2866+00 TO WT 2922+00	CVL-EW-01701 ELLIS WEST SEGMENT - CIVIL - KEY MAP - SHEET 2 OF 2 - EW 1000 TO EW 1246+26
WT-01306 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2020100 TO WT 2022+00 WT-01306 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2022+00 TO WT 2078+00	CVL-EW-01702 ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 10+00 TO EW 66+00
WT-01307 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2978+00 TO WT 3034+00	RDY-EW-01702A ELLIS WEST SEGMENT - CIVIL HIGHWAY - PLAN - FM 984
WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2578100 TO WT 3034100           WT-01308         WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3034+00 TO WT 3090+00	CVL-EW-01703 ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 66+00 TO EW 122+00
-WT-01309 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3034+00 TO WT 3050+00 -WT-01309 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3090+00 TO WT 3146+00	CVL-EW-01703 ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 06+00 TO EW 122+00 CVL-EW-01704 ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 122+00 TO EW 178+00
L-WT-01310 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3030+00 TO WT 3140+00 L-WT-01310 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3146+00 TO WT 3202+00	CVL-EW-01705 ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 178+00 TO EW 234+00
L-WT-01311 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3140400 TO WT 3202+00	CVL-EW-01705 ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 234+00 TO EW 290+00
L-WT-01312 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3202+00 TO WT 3213+00	RDY-EW-01706 ELLIS WEST SEGMENT - CIVIL HIGHWAY - PLAN - BACAK ROAD
L-WT-01312 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3238+00 TO WT 3370+00	CVL-EW-01707 ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 290+00 TO EW 346+00
WT-01313 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3314+00 TO WT 3370+00 WT-01314 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3370+00 TO WT 3426+00	CVL-EW-01707 ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 250+00 TO EW 346+00 CVL-EW-01708 ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 346+00 TO EW 402+00
	DESIGNED BY
	DAWNEY DRAWNEY

					D. THOMPSON		LLAS TO HOUSTON HIGH-SPEED F
					DRAWN BY D. THOMPSON		FINAL CONCEPTUAL ENGINEERING
					CHECKED BY		TEXAS
					R. BURNS	10370 Richmond Ave., Sulte 475         2711 North Haskell Ave., Suite 3300           Houston, Texas 77042         USA           Dallas, Texas 75204         Dallas, Texas 75204	
					C. TAYLOR	Tel (713) 783 2787 Fax (713) 343 1467 Tel (214) 217 2200 Fax (214) 217 2201 www.arup.com Texas Registered Engineering Firm: F-1990 Texas Registered Engineering Firm: F-2144 1400 S	
REV	DATE	BY CHK	APP	DESCRIPTION	02/25/2019	1 1409 St	South Lamar Street, Sulte 1022, Dallas.Texas

·	DRAWING DESCRIPTIONS
	2A-4 ELLIS WEST SEGMENT
	ELLIS WEST SEGMENT - CIVIL - PLAN
	ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 402+00 TO EW 458+00
	ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 458+00 TO EW 514+00 ELLIS WEST SEGMENT - CIVIL - PLAN
	ELLIS WEST SEGMENT - CIVIL - PLAN ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 514+00 TO EW 570+00
	ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 514+00 TO EW 570+00 ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 570+00 TO EW 626+00
	ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 626+00 TO EW 682+00
	ELLIS WEST SEGMENT - CIVIL HIGHWAY - PLAN - EW 655+00 to EW 683+00
	ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 682+00 TO EW 738+00
-EW-01715	ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 738+00 TO EW 794+00
	ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 794+00 TO EW 850+00
	ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 850+00 TO EW 906+00
	ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 906+00 TO EW 962+00
	ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 962+00 TO EW 1018+00
	ELLIS WEST SEGMENT - CIVIL - PLAN
	ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 1018+00 TO EW 1074+00
	ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 1074+00 TO EW 1130+00 ELLIS WEST SEGMENT - CIVIL - PLAN
	ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 1130+00 TO EW 1186+00
	ELLIS WEST SEGMENT - CIVIL - PLAN
	ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 1186+00 TO EW 1242+00
	ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 1242+00 TO EW 1246+26
	2A-5 DALLAS SEGMENT
L-DS-01900	DALLAS SEGMENT - CIVIL - KEY MAP - DS 10+00 TO DT 216+59
	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 10+00 TO DS 66+00
	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 66+00 TO DS 122+00
	DALLAS SEGMENT - CIVIL - PLAN
	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 122+00 TO DS 178+00
	DALLAS SEGMENT - CIVIL HIGHWAY - PLAN - HASH ROAD
	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 178+00 TO DS 234+00 DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 234+00 TO DS 290+00
	DALLAS SEGMENT - CIVIL - FLAN AND PROFILE DS 234+00 TO DS 290+00 DALLAS SEGMENT - CIVIL HIGHWAY - PLAN - DS 234+00 TO DS 290+00
	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 290+00 TO DS 346+00
	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 346+00 TO DS 402+00
	DALLAS SEGMENT - CIVIL - PLAN
	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 402+00 TO DS 458+00
L-DS-01909	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 458+00 TO DS 514+00
	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 514+00 TO DS 542+00
	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 542+00 TO DS 570+00
	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 570+00 TO DS 598+00
	DALLAS SEGMENT - CIVIL - PLAN
DS 01912-D	DALLAS SEGMENT - CIVIL - PLAN DALLAS SEGMENT - CIVIL - PLAN
	DALLAS SEGMENT - CIVIL - PLAN DALLAS SEGMENT - CIVIL - PLAN
	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 598+00 TO DS 626+00
	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 555100 TO DS 626+00 DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 626+00 TO DS 654+00
-DS-01914-A	DALLAS SEGMENT - CIVIL - PLAN
·DS-01914-B	DALLAS SEGMENT - CIVIL - PLAN
L-DS-01915	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 654+00 TO DS 682+00
	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 682+00 TO DS 710+00
	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 710+00 TO DS 738+00
	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 738+00 TO DS 766+00
	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 766+00 TO DT 33+00
	DALLAS SEGMENT - CIVIL - PLAN DALLAS SEGMENT - CIVIL - PLAN
	DALLAS SEGMENT - CIVIL - PLAN DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DT 33+00 TO DT 61+00
	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DT 33+00 TO DT 61+00 DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DT 61+00 TO DT 89+00
	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DT 89+00 TO DT 89+00
	DALLAS SEGMENT - CIVIL - PLAN
	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DT 117+00 TO DT 145+00
DS-01924	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DT 145+00 TO DT 173+00
DS-01924-A	DALLAS SEGMENT - CIVIL - PLAN
DS-01924-B	DALLAS SEGMENT - CIVIL - PLAN
L-DS-01925	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DT 173+00 TO DT 201+00
DS-01925-A	DALLAS SEGMENT - CIVIL - PLAN
DC 01005 -	
-DS-01925-B	DALLAS SEGMENT - CIVIL - PLAN DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DT 201+00 TO DT 216+59

ON HIGH-SPEED RAIL UAL ENGINEERING

Drawing Title

GENERAL INDEX SHEET 2 OF 5

NO SCALE Drawing Status Job No 234180

Scale

FINAL awing No

GEN-00-00004

01

ulte 1022, Dallas.Texas 75215

Arup Texas In

#### VOLUME 2B - RAILWAY ALIGNMENT PLAN AND PROFILE SHEETS

### VOLUME 2B - RAILWAY ALIGNMENT PLAN AND PROFILE SHEETS

<u> VOLUME 2B - RAILWAY ALIGNMENT PLAN AND PROFILE SHEETS</u>	VOLUME 2B - RAILWAY ALIGNMENT PLAN AND PROFILE SHEETS	<u> VOLUME 2B - RA</u>
DRAWING NO. DRAWING DESCRIPTIONS	DRAWING NO. DRAWING DESCRIPTIONS	DRAWING NO.
2B-1 IH-45 SEGMENT	2B-1 IH-45 SEGMENT	2B-3
CVL-IH-01350 IH-45 SEGMENT - CIVIL - KEY MAP - SHEET 1 OF 5 - IH1 10+00 TO IH1 1130+00	CVL-IH-01421 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3706+00 TO IH1 3762+00	CVL-EE-01814 ELLIS
CVL-IH-01351 IH-45 SEGMENT - CIVIL - KEY MAP - SHEET 2 OF 5 - IH1 1130+00 TO IH1 2250+00	CVL-IH-01422 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3762+00 TO IH1 3818+00	CVL-EE-01815 ELLIS
CVL-IH-01352 IH-45 SEGMENT - CIVIL - KEY MAP - SHEET 3 OF 5 - IH1 2250+00 TO IH1 3370+00	CVL-IH-01423 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3818+00 TO IH1 3874+00	CVL-EE-01816 ELLIS
CVL-IH-01353 IH-45 SEGMENT - CIVIL - KEY MAP - SHEET 4 OF 5 - IH1 3370+00 TO IH2 234+00	CVL-IH-01424 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3874+00 TO IH1 3930+00	CVL-EE-01817 ELLIS
VL-IH-01354 IH-45 SEGMENT - CIVIL - KEY MAP - SHEET 5 OF 5 - IH2 234+00 TO IH2 540+81	CVL-IH-01425 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3930+00 TO IH1 3986+00	CVL-EE-01818 ELLIS
VL-IH-01355 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 10+00 TO IH1 66+00	CVL-IH-01426 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3986+00 TO IH1 4042+00	CVL-EE-01819 ELLIS
L-IH-01356 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 66+00 TO IH1 122+00	CVL-IH-01427 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 4042+00 TO IH1 4098+00	CVL-EE-01820 ELLIS
-IH-01357 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 122+00 TO IH1 178+00	CVL-IH-01428 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 4098+00 TO IH1 4154+00	CVL-EE-01821 ELLIS
VL-IH-01358 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 178+00 TO IH1 234+00	CVL-IH-01429 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 4154+00 TO IH1 4210+00	CVL-EE-01822 ELLIS
VL-IH-01359 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 234+00 TO IH1 290+00	CVL-IH-01430 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 4210+00 TO IH1 4266+00	CVL-EE-01823 ELLIS
L-IH-01360  IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 290+00 TO IH1 346+00	CVL-IH-01431 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 4266+00 TO IH1 4322+00	
VL-IH-01361 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 346+00 TO IH1 402+00	CVL-IH-01432 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 4322+00 TO IH1 4329+69	
III-01362         III-01362 <t< td=""><td>CVL-IH-01433 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH2 10+00 TO IH2 66+00</td><td></td></t<>	CVL-IH-01433 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH2 10+00 TO IH2 66+00	
VL-IH-01363 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 458+00 TO IH1 514+00	CVL-IH-01434 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH2 66+00 TO IH2 122+00	
VL-IH-01364 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 514+00 TO IH1 570+00	CVL-IH-01435 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH2 122+00 TO IH2 178+00	
VL-IH-01365 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 570+00 TO IH1 626+00	CVL-IH-01436         IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH2 178+00 TO IH2 234+00           CVL-IH-01437         IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH2 234+00 TO IH2 290+00	
/L-IH-01366  IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 626+00 TO IH1 682+00		
(L-IH-01367 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 682+00 TO IH1 738+00	CVL-IH-01438 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH2 290+00 TO IH2 346+00	—
VL-IH-01368 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 738+00 TO IH1 794+00 VL-IH-01369 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 794+00 TO IH1 850+00	CVL-IH-01439         IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH2 346+00 TO IH2 402+00           CVL-IH-01440         IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH2 402+00 TO IH2 458+00	—
L-11-01-005 JIR-45 SEGIVIENT - CIVIL - PLAN AND PROFILE - IH1 /94+00 TO IH1 850+00		—
/L-IH-01370 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 850+00 TO IH1 906+00	CVL-IH-01441 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH2 458+00 TO IH2 514+00	—
/L-IH-01371 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 906+00 TO IH1 962+00 /L-IH-01372 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 962+00 TO IH1 1018+00	CVL-IH-01442 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH2 514+00 TO IH2 540+81	
	2B-2 NAVARRO EAST SEGMENT	—
/L-IH-01373 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1018+00 TO IH1 1074+00 /L-IH-01374 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1074+00 TO IH1 1130+00	CVL-NE-01600         NAVARRO EAST SEGMENT - CIVIL - KEY MAP - SHEET 1 OF 2 - NE 10+00 TO NE 1074+00           CVL-NE-01601         NAVARRO EAST SEGMENT - CIVIL - KEY MAP - SHEET 2 OF 2 - NE 1074+00 TO NE 1652+00	
		<u>&gt;</u>
VL-IH-01375   IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1130+00 TO IH1 1186+00 VL-IH-01376   IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1186+00 TO IH1 1242+00	CVL-NE-01602         NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 10+00 TO NE 66+00           CVL-NE-01603         NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 66+00 TO NE 122+00	—
/L-IH-01376  IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1186+00 TO IH1 1242+00 /L-IH-01377  IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1242+00 TO IH1 1298+00	CVL-NE-01603 INAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 66+00 TO NE 122+00 CVL-NE-01604 INAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 122+00 TO NE 178+00	
VL-IH-01377  IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1242+00 TO IH1 1298+00 VL-IH-01378  IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1298+00 TO IH1 1354+00	CVL-NE-01604 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 122+00 TO NE 178+00 CVL-NE-01605 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 178+00 TO NE 234+00	
VL-III-01378  II-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1298+00 TO IH1 1354+00 VL-III-01379  IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1354+00 TO IH1 1410+00	CVL-NE-01005 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 178+00 TO NE 234+00 CVL-NE-01606 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 234+00 TO NE 290+00	
VL-IH-01379 [IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1334+00 TO IH1 1410+00 VL-IH-01380 [IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1410+00 TO IH1 1466+00	CVL-NE-01000 INAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 234+00 TO NE 290+00 CVL-NE-01607 INAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 290+00 TO NE 346+00	
VL-IH-01380  IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1410+00 TO IH1 1466+00 VL-IH-01381  IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1466+00 TO IH1 1522+00	CVL-NE-01007 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 290+00 TO NE 346+00 CVL-NE-01608 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 346+00 TO NE 402+00	
VL-III-01381  II-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1466+00 TO IH1 1522+00 VL-IH-01382  IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1522+00 TO IH1 1578+00	CVL-NE-01008 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 346+00 TO NE 402+00 CVL-NE-01609 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 402+00 TO NE 458+00	
VL-IH-01383 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1572+00 TO IH1 1578+00 VL-IH-01383 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1578+00 TO IH1 1634+00	CVL-NE-01610 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 452+00 TO NE 453+00	
VL-IH-01384 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1576400 TO IH1 1654400	CVL-NE-01010 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 436400 TO NE 514400 CVL-NE-01611 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 514400 TO NE 570+00	
CVL-IH-01384         IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1634400 TO IH1 1650400           CVL-IH-01385         IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1690400 TO IH1 1746400	CVL-NE-01011 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 570+00 TO NE 570+00 CVL-NE-01612 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 570+00 TO NE 626+00	
VL-IH-01386 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1890+00 TO IH1 1740+00	CVL-NE-01012 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 626+00 TO NE 622+00	
VL-IH-01387 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1740+00 TO IH1 1802+00	CVL-NE-01013 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 682+00 TO NE 682+00 CVL-NE-01614 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 682+00 TO NE 738+00	
VL-IH-01388 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1802+00 TO IH1 1838+00 VL-IH-01388 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1858+00 TO IH1 1914+00	CVL-NE-01615 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 082+00 TO NE 758+00	
VL-IH-01389 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1838+00 TO IH1 1914+00	CVL-NE-01010 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 753400 TO NE 754400	
VL-IH-01390 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1914+00 TO IH1 2026+00	CVL-NE-01017 NAVARKO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 850+00 TO NE 850+00 CVL-NE-01017 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 850+00 TO NE 906+00	
VL-IH-01391 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1970+00 TO IH1 2020+00	CVL-NE-01019 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 906+00 TO NE 962+00	
CVL-IH-01392 III-45 SEGMENT - CIVIL - PLAN AND PROFILE - III1 2020+00 TO III1 2082+00	CVL-NE-01019 NAVARKO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 960+00 TO NE 902+00 CVL-NE-01019 NAVARKO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 962+00 TO NE 1018+00	
CVL-IH-01393         IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2002+00 TO IH1 2138+00	CVL-NE-01019 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1018+00 TO NE 1018+00 CVL-NE-01620 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1018+00 TO NE 1074+00	
CVL-IH-01393  IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2138-00 TO IH1 2134-00 CVL-IH-01394  IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2194+00 TO IH1 2250+00	CVL-NE-01020 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1018+00 TO NE 1074+00 CVL-NE-01621 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1018+00 TO NE 1130+00	
CVL-IH-01395  IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2194400 TO IH1 2250+00 CVL-IH-01395  IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2250+00 TO IH1 2306+00	CVL-NE-01022 NAVARKO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1074+00 TO NE 1150+00 CVL-NE-01622 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1130+00 TO NE 1186+00	
CVL-IH-01395  IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2200+00 TO IH1 2306+00	CVL-NE-01022 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1130+00 TO NE 1180+00 CVL-NE-01623 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1186+00 TO NE 1242+00	
VL-IH-01397 IIH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2362+00 TO IH1 2362+00	CVL-NE-01023 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1100+00 TO NE 1242+00 CVL-NE-01624 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1242+00 TO NE 1298+00	
VL-III-01397 III-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2302+00 TO IH1 2418+00 VL-III-01398 III-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2418+00 TO IH1 2474+00	CVL-NE-01022 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1292+00 TO NE 1250+00 CVL-NE-01625 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1298+00 TO NE 1354+00	—
CVL-IH-01336 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2416+00 TO IH1 2474+00	CVL-NE-01025 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1230+00 TO NE 1334+00 CVL-NE-01626 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1354+00 TO NE 1410+00	
CVL-IH-01395 [IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2474+00 TO IH1 2530+00 CVL-IH-01400  IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2530+00 TO IH1 2586+00	CVL-NE-01020 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1334+00 TO NE 1410+00 CVL-NE-01627 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1410+00 TO NE 1466+00	
CVL-IH-01400 III-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2530400 TO IH1 2580400 CVL-IH-01401 III-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2586+00 TO IH1 2642+00	CVL-NE-01027 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1410+00 TO NE 1400+00 CVL-NE-01628 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1466+00 TO NE 1522+00	
CVL-IH-01401   H-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2586+00 TO IH1 2642+00 CVL-IH-01402   H-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2642+00 TO IH1 2698+00	CVL-NE-01029 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1406+00 TO NE 1522+00 CVL-NE-01629 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1522+00 TO NE 1578+00	
CVL-IH-01402   H-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2642+00 TO IH1 2656+00 CVL-IH-01403   H-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2698+00 TO IH1 2754+00	CVL-NE-01029 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1522+00 TO NE 1576+00 CVL-NE-01630 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1578+00 TO NE 1634+00	
CVL-IH-01403 [IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2698+00 TO IH1 2754+00 CVL-IH-01404  IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2754+00 TO IH1 2810+00	CVL-NE-01030 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1578+00 TO NE 1654+00 CVL-NE-01631 INAVARIO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1634+00 TO NE 1652+05	
CVL-IH-01404 III-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2754+00 TO IH1 2810+00 CVL-IH-01405 III-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2810+00 TO IH1 2866+00	2B-3 ELLIS EAST SEGMENT	
CVL-IH-01405 [IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2810+00 TO IH1 2806+00 CVL-IH-01406 [IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2866+00 TO IH1 2922+00	CVL-EE-01800-1 ELLIS EAST SEGMENT - CIVIL - KEY MAP - SHEET 1 OF 2 - EE 9+56 TO EE 1098+00	
VL-11-01400  11-45 SEGMENT - CIVIL - PLAN AND PROFILE - 1H1 2806+00 TO H1 2922+00	CVL-EE-01800-2 ELLIS EAST SEGMENT - CIVIL - KEY MAP - SHEET 2 OF 2 - EE 3456 TO EE 1098+00 CVL-EE-01800-2 ELLIS EAST SEGMENT - CIVIL - KEY MAP - SHEET 2 OF 2 - EE 1098+00 TO EE 1232+15	
CVL-IH-01407 III-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2922+00 TO IH1 2978+00	CVL-EE-01801 ELLIS EAST SEGMENT - CIVIL - NET MAP - SHEET 2 OF 2 - EE 1098+00 TO EE 1252+15 CVL-EE-01801 ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 9+56 TO EE 34+00	
CVL-IH-01408 [IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2978+00 TO IH1 3034+00 CVL-IH-01409  IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3034+00 TO IH1 3090+00	CVL-EE-01802 ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 34+00 TO 90+00	
CVL-IH-01410  IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3034400 TO IH1 3050400	CVL-EE-01803 ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 90+00 TO 146+00	
CVL-IH-01411 III-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 305000 TO IH1 3140+00	CVL-EE-01804 ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 30+00 TO 140+00	
CVL-IH-01412 III-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3140-00 TO IH1 3222+00	CVL-EE-01805 ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 202+00 TO EE 258+00	
CVL-IH-01412   H-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3202+00 TO IH1 3230+00	CVL-EE-01806 ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 258+00 TO EE 236+00 CVL-EE-01806 ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 258+00 TO EE 314+00	
CVL-IH-01414         IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3238-00 TO IH1 3314+00           CVL-IH-01414         IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3314+00 TO IH1 3370+00	CVL-EE-01807 ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 238+00 TO EE 314+00 CVL-EE-01807 ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 314+00 TO EE 370+00	
CVL-IH-01414   H-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3314+00 TO IH1 3570+00 CVL-IH-01415   H-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3370+00 TO IH1 3426+00	CVL-EE-01808 ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 314+00 TO EE 370+00 CVL-EE-01808 ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 370+00 TO EE 426+00	
CVL-IH-01415   H-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3570+00 TO IH1 3420+00	CVL-EE-01809 ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 3/0+00 TO EE 420+00 CVL-EE-01809 ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 426+00 TO EE 482+00	
CVL-IH-01410   H-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3426+00 TO IH1 3462+00 CVL-IH-01417   H-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3482+00 TO IH1 3538+00	CVL-EE-01810 ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 428+00 TO EE 482+00 CVL-EE-01810 ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 482+00 TO EE 538+00	
	CVL-EE-01811 ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 402+00 TO EE 538+00 CVL-EE-01811 ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 538+00 TO EE 594+00	
CVI-IH-01418 IIH-45 SEGMENT - CIVII - PLAN AND PROFILE - IH1 3538+00 TO IH1 359/+00		
CVL-IH-01418  IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3538+00 TO IH1 3594+00 CVL-IH-01419  IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3594+00 TO IH1 3650+00		
CVL-IH-01418         IH-45         SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3538+00 TO IH1 3594+00           CVL-IH-01419         IH-45         SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3594+00 TO IH1 3650+00           CVL-IH-01420         IH-45         SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3650+00 TO IH1 3706+00	CVL-EE-01812 ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 594+00 TO EE 650+00 CVL-EE-01813 ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 650+00 TO EE 706+00	_

							D. THOMPSON		DALLAS TO HOUSTON HIGH-SPEED RAIL FINAL CONCEPTUAL ENGINEERING
							D. THOMPSON	ARUP ARUP	
							R. BURNS	Arup Texas, Inc. 10370 Richmond Ave., Suite 475 2711 North Haskell Ave., Suite 3300	
							C. TAYLOR	Houston, Texas 77042 USA Dallas, Texas 75204 Tel (713) 783 2787 Fax (713) 343 1467 Tel (214) 217 2200 Fax (214) 217 2201 www.urpu.com www.freese.com	CENTRAL
	REV	DATE	BY	СНК	APP	DESCRIPTION	02/25/2019	Texas Registered Engineering Firm: F-1990 Texas Registered Engineering Firm: F-2144 1,	409 South Lamar Street, Sulte 1022, Dallas.Texas 75215

## **VOLUME 2B - RAILWAY ALIGNMENT PLAN AND PROFILE SHEETS**

DRAWING	DESCRIPTIONS	

-3 ELLIS EAST SEGMENT
IS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 706+00 TO EE 762+00
IS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 762+00 TO EE 818+00
IS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 818+00 TO EE 874+00
IS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 874+00 TO EE 930+00
IS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 930+00 TO EE 986+00
IS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 986+00 TO EE 1042+00
IS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 1042+00 TO EE 1098+00
IS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 1098+00 TO EE 1154+00
IS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 1154+00 TO EE 1210+00
IS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 1210+00 TO EE 1232+15



Drawing Title

#### GENERAL INDEX SHEET 3 OF 5

Scale								
NO SCALE								
Drawing Status								
FINAL								
Job No	Drawing No	Rev						
234180	GEN-00-00005	01						
	I	1						

Arup Texas Inc.

### **VOLUME 3A - STATIONS, MAINTENANCE FACILITIES AND RAILWAY SYSTEMS SHEETS**

1	DRAWING NO.	DRAWING DESCRIPTIONS
-1		3A-1 STATIONS
	STA-00-03000	GENERAL - STATIONS - TYPICAL SECTIONS
	STA-HN-06000	HOUSTON SEGMENT - STATIONS - STATIONS SECTIONS
	STA-HN-06001	HOUSTON SEGMENT - STATIONS - STATION SECTIONS - FUTURE EXPANSION
	STA-HN-01005	HOUSTON SEGMENT - STATIONS - HOUSTON TRANSIT STATION - CIVIL SITE PLAN
	STA-HN-01015	HOUSTON SEGMENT - STATIONS - HOUSTON NORTHWEST MALL - CIVIL SITE PLAN (FSL)
	STA-HN-01016	HOUSTON SEGMENT - STATIONS - HOUSTON NORTHWEST MALL - TERMINAL ROAD - PLAN & PROFILE
2	STA-HN-01017	HOUSTON SEGMENT - STATIONS - HOUSTON NORTHWEST MALL - MANGUM ROAD - PLAN & PROFILE
	STA-HN-01018	HOUSTON SEGMENT - STATIONS - HOUSTON NORTHWEST MALL - 18TH STREET - PLAN & PROFILE
	STA-HN-01019	HOUSTON SEGMENT - STATIONS - HOUSTON NORTHWEST MALL - CIVIL SITE PLAN - FUTURE BUILD
	STA-HN-01025	HOUSTON SEGMENT - STATIONS - INDUSTRIAL STATION - CIVIL SITE PLAN
_	STA-HN-01034	HOUSTON SEGMENT - STATIONS - BRAZOS VALLEY STATION - CIVIL SITE PLAN
	STA-DS-01045	DALLAS SEGMENT - STATIONS - STATION SECTIONS
	STA-DS-01046	DALLAS SEGMENT - STATIONS - STATION SECTIONS - FUTURE EXPANSION
	STA-DS-01049	DALLAS SEGMENT - STATIONS - DALLAS STATION - CIVIL SITE PLAN
3	STA-DS-01050	DALLAS SEGMENT - STATIONS - DALLAS STATION - HOTEL STREET - PLAN & PROFILE
	STA-DS-01053	DALLAS SEGMENT - STATIONS - DALLAS STATION - PROPOSED STREET 1 - PLAN & PROFILE
	STA-DS-01054	DALLAS SEGMENT - STATIONS - DALLAS STATION - PROPOSED STREET 2 - PLAN & PROFILE
		3A-2 MAINTENANCE FACILITIES, YARDS AND SHOPS
-	MNT-00-02002	HN, WT, EW, DS - MAINTENANCE FACILITIES - TYPICAL MOW FACILITY
	MNT-00-02003	GENERAL - MAINTENANCE FACILITIES - TYPICAL SIDING OFF
	MNT-00-02004	GENERAL - MAINTENANCE FACILITIES - KEY MAP
4	MNT-HN-04008	HOUSTON SEGMENT - MAINTENANCE FACILITIES - MOW-HN-2 - LAYOUT
	MNT-HN-04009	HOUSTON SEGMENT - MAINTENANCE FACILITIES - MOW-HN-2 - PROFILE
	MNT-HN-04010	HOUSTON SEGMENT - MAINTENANCE FACILITIES - HOUSTON TMF - SHEET 1 OF 3
	MNT-HN-04011	HOUSTON SEGMENT - MAINTENANCE FACILITIES - HOUSTON TMF - SHEET 2 OF 3
	MNT-HN-04012 MNT-HN-04013	HOUSTON SEGMENT - MAINTENANCE FACILITIES - HOUSTON TMF - SHEET 3 OF 3
	MNT-HN-04013	HOUSTON SEGMENT - MAINTENANCE FACILITIES - HOUSTON TMF - PROFILE HOUSTON SEGMENT - MAINTENANCE FACILITIES - MOW FACILITY HN-5 - LAYOUT
	MNT-HN-04015	HOUSTON SEGMENT - MAINTENANCE FACILITIES - MOW FACILITY HN-5 - PROFILE
		WEST OF TEAGUE SEGMENT - MAINTENANCE FACILITIES - MOW FACILITY WT-1 - LAYOUT
5	MNT-WT-04017	WEST OF TEAGUE SEGMENT - MAINTENANCE FACILITIES - MOW FACILITY WT-1 - PROFILE
	MNT-WT-04018	WEST OF TEAGUE SEGMENT - MAINTENANCE FACILITIES - TRACK CONNECTION - LAYOUT - SHEET 1 OF 2
	MNT-WT-04019	WEST OF TEAGUE SEGMENT - MAINTENANCE FACILITIES - TRACK CONNECTION - LAYOUT - SHEET 2 OF 2
	MNT-WT-04020	WEST OF TEAGUE SEGMENT - MAINTENANCE FACILITIES - MOW FACILITY WT-2 - LAYOUT
-	MNT-WT-04021	WEST OF TEAGUE SEGMENT - MAINTENANCE FACILITIES - MOW FACILITY WT-2 - PROFILE
	MNT-EW-04036	ELLIS WEST SEGMENT - MAINTENANCE FACILITIES - MOW FACILITY EW-1 - LAYOUT
	MNT-EW-04037	ELLIS WEST SEGMENT - MAINTENANCE FACILITIES - MOW FACILITY EW-1 - PROFILE
6	MNT-DS-04042	DALLAS SEGMENT - MAINTENANCE FACILITIES - DALLAS TMF - SHEET 1 OF 2
"	MNT-DS-04043	DALLAS SEGMENT - MAINTENANCE FACILITIES - DALLAS TMF - SHEET 2 OF 2
	MNT-DS-04044	DALLAS SEGMENT - MAINTENANCE FACILITIES - DALLAS TMF - PROFILE
		3A-3 RAILWAY FACILITIES
_	SYS-00-01001	HN, WT, NW, EW, DS - RAILWAY FACILITIES - SP, SSP, ATP - TYPICAL LAYOUT PLAN
	SYS-00-01002	HN, WT, NW, EW, DS - RAILWAY FACILITIES - MSH, SSH, ISH, CH - TYPICAL LAYOUT PLAN
	SYS-00-01003	HN, WT, NW, EW, DS - RAILWAY FACILITIES - TPSS LOOP 2FDR - TYPICAL LAYOUT PLAN
	SYS-00-01004 SYS-00-01005	HN, WT, NW, EW, DS - RAILWAY FACILITIES - TPSS LOOP 1FDR - TYPICAL LAYOUT PLAN
7	SYS-00-01005	HN, WT, NW, EW, DS - RAILWAY FACILITIES - TPSS RADIAL 2FDR - TYPICAL LAYOUT PLAN
	SYS-00-02000	HN, WT, NW, EW, DS - RAILWAY FACILITIES - TPSS RADIAL 1FDR - TYPICAL LAYOUT PLAN GENERAL - RAILWAY FACILITIES - FACILITIES SPACING - ALIGN ALT A FSL
	SYS-00-02000	GENERAL - RAILWAY FACILITIES - FACILITIES SPACING - ALIGN ALT A FSL
	SYS-00-03000	HT1, HT2, HT3, HN1, HN2, - WT, NW, EW, DS, DT - RAILWAY FACILITIES - FACILITY LOCATIONS
$\neg$	0.0 00 00000	3A-4 ROADWAY FACILITIES
	RDY-00-03037	GENERAL - ROADWATTACIENTIS

#### **VOLUME 3B - STATIONS, MAINTENANCE FACILITIES AND RAILWAY SYSTEM**

<u></u>	
DRAWING NO.	DRAWING DESCRIPTIONS
	3B-1 STATIONS (NOT USED)
	3B-2 MAINTENANCE FACILITIES, YARDS AND SHOPS
MNT-00-02012	IH, EE - MAINTENANCE FACILITIES - TYPICAL MOW FACILITY
MNT-IH-04022	IH-45 SEGMENT - MAINTENANCE FACILITIES - MOW FACILITY IH-1 - LAYOUT - SHEET
MNT-IH-04023	IH-45 SEGMENT - MAINTENANCE FACILITIES - MOW FACILITY IH-1 - LAYOUT - SHEET
MNT-IH-04024 MNT-IH-04025	IH-45 SEGMENT - MAINTENANCE FACILITIES - MOW FACILITY IH-1 - LAYOUT - SHEET IH-45 SEGMENT - MAINTENANCE FACILITIES - TRACK CONNECTION - LAYOUT - SHEE
MNT-IH-04023	IH-45 SEGMENT - MAINTENANCE FACILITIES - TRACK CONNECTION - LAYOUT - SHEE
MNT-IH-04020	IH-45 SEGMENT - MAINTENANCE FACILITIES - TRACK CONNECTION - LAYOUT - SHEE
MNT-IH-04028	IH-45 SEGMENT - MAINTENANCE FACILITIES - TRACK CONNECTION - LAYOUT - SHEE
MNT-IH-04029	IH-45 SEGMENT - MAINTENANCE FACILITIES - TRACK CONNECTION - LAYOUT - SHEE
MNT-IH-04030	IH-45 SEGMENT - MAINTENANCE FACILITIES - TRACK CONNECTION - LAYOUT - SHEE
MNT-IH-04031	IH-45 SEGMENT - MAINTENANCE FACILITIES - TRACK CONNECTION - LAYOUT - SHEE
MNT-IH-04032	IH-45 SEGMENT - MAINTENANCE FACILITIES - TRACK CONNECTION - LAYOUT - SHEE
MNT-IH-04033	IH-45 SEGMENT - MAINTENANCE FACILITIES - MOW FACILITY IH-2 - LAYOUT - SHEET
MNT-IH-04034	IH-45 SEGMENT - MAINTENANCE FACILITIES - MOW FACILITY IH-2 - LAYOUT - SHEET
MNT-IH-04035	IH-45 SEGMENT - MAINTENANCE FACILITIES - MOW FACILITY IH-2 - LAYOUT - SHEET
MNT-EE-04038	ELLIS EAST SEGMENT - MAINTENANCE FACILITIES - MOW FACILITY EE-1 - LAYOUT 3B-3 RAILWAY FACILITIES
SYS-00-01010	IH, NE, EE - RAILWAY FACILITIES - TPSS - TYPICAL LAYOUT PLAN
SYS-00-01010 SYS-00-01011	IH, NE, EE - RAILWAY FACILITIES - SP, SSP, ATP - TYPICAL LAYOUT PLAN
SYS-00-01012	IH, NE, EE - RAILWAY FACILITIES - MSH, SSH, ISH, CH - TYPICAL LAYOUT PLAN
SYS-00-02002	GENERAL - RAILWAY FACILITIES - FACILITY SPACING - ALIGNMENT ALTERNATIVE B
SYS-00-02003	GENERAL - RAILWAY FACILITIES - FACILITY SPACING - ALIGNMENT ALTERNATIVE C
SYS-00-02004	GENERAL - RAILWAY FACILITIES - FACILITY SPACING - ALIGNMENT ALTERNATIVE D
SYS-00-02005	GENERAL - RAILWAY FACILITIES - FACILITY SPACING - ALIGNMENT ALTERNATIVE E
SYS-00-02006	GENERAL - RAILWAY FACILITIES - FACILITY SPACING - ALIGNMENT ALTERNATIVE F
SYS-00-03010	IH, NE, EE- RAILWAY FACILITIES - FACILITY LOCATIONS
<u>VOLUME 4B -</u>	<u>NOT USED</u>
<u> VOLUME 4B -</u>	ROADWAY PLAN SHEETS
DRAWING NO.	DRAWING DESCRIPTIONS
	4B-1 IH-45 SEGMENT
RDY-IH-01101	IH-45 SEGMENT - CIVIL HIGHWAY - KEY MAP - SHEET 1 OF 5 IH1 10+00 TO IH1 1120+
RDY-IH-01102	IH-45 SEGMENT - CIVIL HIGHWAY - KEY MAP - SHEET 2 OF 5 IH1 1120+00 TO IH1 224
RDY-IH-01103	IH-45 SEGMENT - CIVIL HIGHWAY - KEY MAP - SHEET 3 OF 5 IH1 2240+00 TO IH1 336
RDY-IH-01104	IH-45 SEGMENT - CIVIL HIGHWAY - KEY MAP - SHEET 4 OF 5 IH1 3360+00 TO IH2 224
RDY-IH-01105 RDY-IH1-04001	IH-45 SEGMENT - CIVIL HIGHWAY - KEY MAP - SHEET 5 OF 5 IH2 224+00 TO IH2 540+
RDY-IH1-04001	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 10+00 TO IH1 100+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 100+00 TO IH1 190+00
RDY-IH1-04003	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IHI 100-00 TO IHI 150-00
RDY-IH1-04004	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 280+00 TO IH1 270+00
RDY-IH1-04005	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 370+00 TO IH1 460+00
RDY-IH1-04006	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 460+00 TO IH1 550+00
RDY-IH1-04007	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 550+00 TO IH1 640+00
RDY-IH1-04008	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 640+00 TO IH1 730+00
RDY-IH1-04009	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 730+00 TO IH1 820+00
RDY-IH1-04010 RDY-IH1-04011	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 820+00 TO IH1 910+00
RDY-IH1-04011	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 910+00 TO IH1 1000+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1000+00 TO IH1 1090+00
RDY-IH1-04012	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IHI 1000+00 TO IHI 1090+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IHI 1090+00 TO IHI 1180+00
RDY-IH1-04014	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1000-00 TO IH1 1270+00
RDY-IH1-04015	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1270+00 TO IH1 1360+00
RDY-IH1-04016	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1360+00 TO IH1 1450+00
RDY-IH1-04017	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1450+00 TO IH1 1540+00
RDY-IH1-04018	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1540+00 TO IH1 1630+00
RDY-IH1-04019	
RDY-IH1-04020 RDY-IH1-04021	<u>IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1630+00 TO IH1 1720+00</u>
	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1720+00 TO IH1 1810+00
	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1720+00 TO IH1 1810+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1810+00 TO IH1 1900+00
RDY-IH1-04022	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1720+00 TO IH1 1810+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1810+00 TO IH1 1900+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1900+00 TO IH1 1990+00
RDY-IH1-04022 RDY-IH1-04023	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1720+00 TO IH1 1810+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1810+00 TO IH1 1900+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1900+00 TO IH1 1990+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1990+00 TO IH1 2080+00
RDY-IH1-04022 RDY-IH1-04023 RDY-IH1-04024	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1720+00 TO IH1 1810+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1810+00 TO IH1 1900+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1900+00 TO IH1 1990+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1990+00 TO IH1 2080+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2080+00 TO IH1 2170+00
RDY-IH1-04022 RDY-IH1-04023	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1720+00 TO IH1 1810+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1810+00 TO IH1 1900+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1900+00 TO IH1 1990+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1990+00 TO IH1 2080+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2080+00 TO IH1 2170+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2080+00 TO IH1 2170+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2170+00 TO IH1 2260+00
RDY-IH1-04022 RDY-IH1-04023 RDY-IH1-04024 RDY-IH1-04025	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1720+00 TO IH1 1810+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1810+00 TO IH1 1900+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1900+00 TO IH1 1990+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1990+00 TO IH1 2080+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2080+00 TO IH1 2170+00
RDY-IH1-04022 RDY-IH1-04023 RDY-IH1-04024 RDY-IH1-04025 RDY-IH1-04026 RDY-IH1-04027 RDY-IH1-04028	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1720+00 TO IH1 1810+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1810+00 TO IH1 1900+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1900+00 TO IH1 1990+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1990+00 TO IH1 2080+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2080+00 TO IH1 2170+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2170+00 TO IH1 2170+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2170+00 TO IH1 2260+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2260+00 TO IH1 2350+00
RDY-IH1-04022 RDY-IH1-04023 RDY-IH1-04024 RDY-IH1-04025 RDY-IH1-04026 RDY-IH1-04027 RDY-IH1-04028 RDY-IH1-04029	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1720+00 TO IH1 1810+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1810+00 TO IH1 1900+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1900+00 TO IH1 1990+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1900+00 TO IH1 2080+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2080+00 TO IH1 2170+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2080+00 TO IH1 2170+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2260+00 TO IH1 2260+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2250+00 TO IH1 2350+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2400+00 TO IH1 2440+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2350+00 TO IH1 2530+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2440+00 TO IH1 2530+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2440+00 TO IH1 2530+00
RDY-IH1-04022 RDY-IH1-04023 RDY-IH1-04024 RDY-IH1-04025 RDY-IH1-04025 RDY-IH1-04027 RDY-IH1-04027 RDY-IH1-04028 RDY-IH1-04029 RDY-IH1-04030	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1720+00 TO IH1 1810+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1810+00 TO IH1 1900+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1900+00 TO IH1 2080+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1990+00 TO IH1 2080+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2080+00 TO IH1 2170+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2080+00 TO IH1 2260+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2170+00 TO IH1 2260+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2260+00 TO IH1 2250+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2350+00 TO IH1 2440+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2350+00 TO IH1 2530+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2440+00 TO IH1 2620+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2400+00 TO IH1 2620+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2530+00 TO IH1 2620+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2530+00 TO IH1 2620+00
RDY-IH1-04022 RDY-IH1-04023 RDY-IH1-04024 RDY-IH1-04025 RDY-IH1-04026 RDY-IH1-04027 RDY-IH1-04028 RDY-IH1-04029	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1720+00 TO IH1 1810+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1810+00 TO IH1 1900+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1900+00 TO IH1 1990+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1900+00 TO IH1 2080+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2080+00 TO IH1 2170+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2080+00 TO IH1 2170+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2260+00 TO IH1 2260+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2250+00 TO IH1 2350+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2400+00 TO IH1 2440+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2350+00 TO IH1 2530+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2440+00 TO IH1 2530+00 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2440+00 TO IH1 2530+00

 RDY-IH1-04033
 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2800+00 TO IH1 2890+00

 RDY-IH1-04033
 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2890+00 TO IH1 2980+00

 RDY-IH1-04034
 IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2980+00 TO IH1 3070+00

							D. THOMPSON		AS TO HOUSTON HIGH-S
							DRAWN BY		
								Arup Texas, Inc.	TEXA
				_			IN CHARGE	10370 Rkchmond Ave., Suite 475         2711 North Haskell Ave., Suite 3300           Houston, Texas 77042         USA         Dallas, Texas 75204           T. Marking Strategy Constraints         The Marking Strategy Constraints         The Marking Strategy Constraints	
				_	_		C. TAYLOR	Tel (713) 783 2787 Fax (713) 343 1467 Tel (214) 217 2200 Fax (214) 217 2201 www.arup.com www.freese.com Texas Registered Engineering Firm: F-1990 Texas Registered Engineering Firm: F-2144 1400 Source	ith Lamar Street, Sulte 1022, Da
	REV	DATE	BY	CHK	A	APP DESCRIPTION	02/25/2019	1 140300	in Lamar Sureer, Suite 1022, Da

IS SHEETS				
ET 1 OF 3				
ET 2 OF 3				· · · · ·
ET 3 OF 3				
ET 1 OF 8 ET 2 OF 8				
ET 3 OF 8				
ET 4 OF 8				
EET 5 OF 8				
EET 6 OF 8				
ET 7 OF 8				
EET 8 OF 8 ET 1 OF 3				
ET 2 OF 3				
ET 3 OF 3				
<u>0+00</u> 240+00				
2 <u>40+00</u> 360+00				
24+00				
0+81				
1				
)				
)				
)				
)				
)				
)				
,)				
)				
)				
)				
)				
)				
,)				
)				
)				
)				
)				
)				
, )				
,				
H-SPEED RAIL GINEERING	Drawing Title			
		NO SCALE Drawing Status		
AS	GENERAL	Drawing Status	FINAL	
TRAL	INDEX SHEET 4 OF 5	Job No	Drawing No	Rev
Dallas.Texas 75215		234180	GEN-00-00006	01

Arup Texas Inc.

### **VOLUME 4B - ROADWAY PLAN SHEETS**

22x34|

DRAWING NO.	DRAWING DESCRIPTIONS
	4B-1 IH-45 SEGMENT
	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 3070+00 TO IH1 3160+00
RDY-IH1-04036	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 3160+00 TO IH1 3250+00
RDY-IH1-04037	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 3250+00 TO IH1 3340+00
	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 3340+00 TO IH1 3430+00
RDY-IH1-04039	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 3430+00 TO IH1 3520+00
RDY-IH1-04040	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 3520+00 TO IH1 3610+00
	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 3610+00 TO IH1 3700+00
	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 3700+00 TO IH1 3790+00
	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 3790+00 TO IH1 3880+00
	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 3880+00 TO IH1 3970+00
RDY-IH1-04045	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 3970+00 TO IH1 4060+00
	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 4060+00 TO IH1 4150+00
RDY-IH1-04047	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 4150+00 TO IH1 4240+00
RDY-IH1-04048	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 4240+00 TO IH1 4329+69
	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH2 10+00 TO IH2 100+00
	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH2 100+00 TO IH2 190+00
	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH2 190+00 TO IH2 280+00
RDY-IH2-04052	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH2 280+00 TO IH2 370+00
RDY-IH2-04053	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH2 370+00 TO IH2 460+00
	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH2 460+00 TO IH2 540+81
	4B-2 NAVARRO EAST SEGMENT
	NAVARRO EAST SEGMENT - CIVIL HIGHWAY - KEY MAP - SHEET 1 OF 2 NE 10+00 TO NE 1070+00
	NAVARRO EAST SEGMENT - CIVIL HIGHWAY - KEY MAP - SHEET 2 OF 2 NE 1070+00 TO NE 1652+05
	NAVARRO EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. NE 10+00 TO NE 100+00
	NAVARRO EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. NE 100+00 TO NE 190+00 NAVARRO EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. NE 190+00 TO NE 280+00
	NAVARRO EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. NE 190+00 TO NE 280+00 NAVARRO EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. NE 280+00 TO NE 370+00
	NAVARRO EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. NE 280+00 TO NE 370+00
	NAVARRO EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. NE 450+00 TO NE 550+00
	NAVARRO EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. NE 550+00 TO NE 640+00
	NAVARRO EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. NE 640+00 TO NE 730+00
	NAVARRO EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. NE 730+00 TO NE 820+00
	NAVARRO EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. NE 820+00 TO NE 910+00
	NAVARRO EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. NE 910+00 TO NE 1000+00
	NAVARRO EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - MATCHLINE RDY-NE-04011
	NAVARRO EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. NE 1000+00 TO NE 1090+00
RDY-NE-04013	NAVARRO EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. NE 1090+00 TO NE 1180+00
RDY-NE-04014	NAVARRO EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. NE 1180+00 TO NE 1270+00
RDY-NE-04015	NAVARRO EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. NE 1270+00 TO NE 1360+00
	NAVARRO EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. NE 1360+00 TO NE 1450+00
	NAVARRO EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. NE 1450+00 TO NE 1540+00
	NAVARRO EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. NE 1540+00 TO NE 1630+00
RDY-NE-04019	NAVARRO EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. NE 1630+00 TO NE 1652+05
	4B-3 ELLIS EAST SEGMENT
	ELLIS EAST SEGMENT - CIVIL HIGHWAY - KEY MAP - SHEET 1 OF 2 EE 9+56 TO EE 1064+00
	ELLIS EAST SEGMENT - CIVIL HIGHWAY - KEY MAP - SHEET 2 OF 2 EE 1064+00 TO EE 1232+15
	ELLIS EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. EE 9+56 TO EE 100+00
	ELLIS EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. EE 100+00 TO EE 190+00
	ELLIS EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. EE 190+00 TO EE 280+00
RDY-EE-04004	ELLIS EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. EE 280+00 TO EE 370+00
RDY-EE-04005	ELLIS EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. EE 370+00 TO EE 460+00
RDY-EE-04006	ELLIS EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. EE 460+00 TO EE 550+00
RDY-EE-04007	ELLIS EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. EE 550+00 TO EE 640+00
RDY-EE-04008	ELLIS EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. EE 640+00 TO EE 730+00
	ELLIS EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. EE 730+00 TO EE 820+00
	ELLIS EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. EE 820+00 TO EE 910+00
	ELLIS EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. EE 910+00 TO EE 1000+00
	ELLIS EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. EE 1000+00 TO EE 1090+00 ELLIS EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. EE 1090+00 TO EE 1180+00
RDY-EE-04013	

## Volume 5A - WILDLIFE CROSSING SHEETS

DRAWING NO.	DRAWING DESCRIPTIONS
	Volume 5A
WLC-DS-04001	DS SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 1 OF 23)
WLC-DS-04002	DS SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 2 OF 23)
WLC-DS-04003	DS SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 3 OF 23)
WLC-EW-04001	EW SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 4 OF 23)
WLC-EW-04002	EW SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 5 OF 23)
WLC-NW-04001	NW SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 6 OF 23)
WLC-NW-04002	NW SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 7 OF 23)
WLC-NW-04003	NW SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 8 OF 23)
WLC-WT-04001	WT SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 9 OF 23)
WLC-WT-04002	WT SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 10 OF 23)
WLC-WT-04003	WT SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 11 OF 23)
WLC-WT-04004	WT SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 12 OF 23)
WLC-WT-04005	WT SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 13 OF 23)
WLC-WT-04006	WT SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 14 OF 23)
WLC-WT-04007	WT SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 15 OF 23)
WLC-HN-04001	HN SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 16 OF 23)
WLC-HN-04002	HN SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 17 OF 23)
WLC-HN-04003	HN SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 18 OF 23)
WLC-HN-04004	HN SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 19 OF 23)
WLC-HN-04005	HN SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 20 OF 23)
WLC-HN-04006	HN SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 21 OF 23)
WLC-HN-04007	HN SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 22 OF 23)
WLC-HN-04008	HN SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 23 OF 23)

## **VOLUME 5B - WILDLIFE CROSSING SHEETS**

DRAWING NO.	DRAWING DESCRIPTIONS
	Volume 5B
WLC-EE-04001	EE SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 1 OF 15)
WLC-EE-04002	EE SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 2 OF 15)
WLC-NE-04001	NE SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 3 OF 15)
WLC-NE-04002	NE SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 4 OF 15)
WLC-NE-04003	NE SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 5 OF 15)
WLC-IH-04001	IH-45 SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 6 OF 15)
WLC-IH-04002	IH-45 SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 7 OF 15)
WLC-IH-04003	IH-45 SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 8 OF 15)
WLC-IH-04004	IH-45 SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 9 OF 15)
WLC-IH-04005	IH-45 SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 10 OF 15)
WLC-IH-04006	IH-45 SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 11 OF 15)
WLC-IH-04007	IH-45 SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 12 OF 15)
WLC-IH-04008	IH-45 SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 13 OF 15)
WLC-IH-04009	IH-45 SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 14 OF 15)
WLC-IH-04010	IH-45 SEGMENT THSR - POTENTIAL WILDLIFE CROSSINGS (SHEET 15 OF 15)

							DESIGNED BY D. THOMPSON			DALLAS TO HOUSTON HIGH-SF
_								ARUP	FREESE NICHOLS	FINAL CONCEPTUAL ENGINE
								Arup Texas, Inc.		TEXAS
								10370 Richmond Ave., Sulte 475 Houston, Texas 77042 USA Tel (713) 783 2787 Fax (713) 343 1467	2711 North Haskell Ave., Suite 3300 Dallas, Texas 75204 Tel (214) 217 2200 Fax (214) 217 2201	CENTR
	REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 02/25/2019	www.arup.com Texas Registered Engineering Firm: F-1990	www.freese.com Texas Registered Engineering Firm: F-2144	1409 South Lamar Street, Sulte 1022, Dalla

Scale				
NO SCALE				
Drawing Status				
FINAL				
Job No	Drawing No	Rev		
234180	GEN-00-00007	01		

Arup Texas Inc.

Drawing Title

#### GENERAL NOTES:

- 1. THESE DRAWINGS ACCOMPANY FINAL CONCEPTUAL ENGINEERING (FCE) REPORT.
- 2. DRAWING SET INCLUDES FIVE (5) VOLUMES, AFTER RELEASE OF THE DRAFT EIS (DEIS), WHICH IDENTIFIED ALTERNATIVE A AS THE PERFERRED ALTERNATIVE, ADDITIONAL DESIGN DEVELOPMENT AND REFINEMENT OF ALTERNATIVE A WAS UNDERTAKEN TO MITIGATE IMPACTS AND TO IMPROVE CONSTRUCTABILITY. THIS REPORT ADDRESSES THE REFINED DESING APPROACHES AND DETAILS FOR THE SEGMENTS IN BUILD ALTERNATIVE A. FOR ALL OTHER SEGMENTS NOT A PART OF THE PERFERRED ALTERNATIVE (ELLIS EAST, NAVARRO EAST, AND IH-45 SEGMENTS), NO CHANGES TO DESIGN WAS ADVANCED OTHER THAN ALIGNMENT REVISIONS REQUIRED TO ACCOUNT FOR ALIGNMENT REVISIONS ADVANCED IN ALTERNATIVE A. TO FACILITATE COMPARISON FOR IMPACT ANALYSIS, THE APPENDICES TO THE FCE REPORT INCLUDES ALL SEGMENTS. THE DRAWING SET HAS BEEN ORGANIZED INTO VOLUMES 1A-5A AND 1B-5B, WITH THE PREFERRED ALTERNATIVE DESIGN DRAWINGS INCLUDED IN THE 1A-5A VOLUMES.
- 3. CONCEPTUAL ENGINEERING WAS DEVELOPED TO IDENTIFY PROJECT LIMIT OF DISTURBANCE (LOD), OR "PROJECT FOOTPRINT". CONCEPTUAL ENGINEERING DRAWINGS AND FCE REPORT ARE ISSUED TO PROVIDE PROJECT DEFINITION FOR ENVIRONMENTAL ANALYSES ONLY. FINAL DESIGN WOULD BE DEVELOPED TO MITIGATE ANY IMPACTS IDENTIFIED THROUGH ENVIRONMENTAL ANALYSES. NOT FOR CONSTRUCTION.
- 4. FOR STANDARD GENERAL ABBREVIATIONS, SEE DRAWING GEN-00-0009.
- 5. FOR STANDARD GENERAL SYMBOLS, SEE DRAWING GEN-00-0009
- 6. "ORIGINAL GROUND" SHOWN ON PROFILES REFERS TO THE APPROXIMATE EXISTING GROUND LINE AT HSR CENTERLINE AS SHOWN ON PLAN AND PROFILE DRAWINGS.
- 7 ALL HORIZONTAL AND VERTICAL DISTANCES ARE IN US CUSTOMARY UNITS EXCEPT AS NOTED OTHERWISE
- 8. GENERAL NOTES FOR PROJECT ELEMENTS INCLUDED ON GENERAL NOTES PAGES, REFER TO INDIVIDUAL DISCIPLINE DRAWINGS FOR ADDITIONAL NOTES.

#### BASEMAPPING NOTES:

- 1. DTM DATA SHOWN ON THE DRAWINGS WAS OBTAINED FROM THE TEXAS NATURAL RESOURCES INFORMATION SYSTEM (TNRIS) AND HOUSTON-GALVESTON AREA COUNCIL (HGAC).
  - DALLAS COUNTY LIDAR, 2009, SOURCED FROM TNRIS
  - HGAC LIDAR, 2008.
  - TNRIS LIDAR, 2009-2013.
  - TNRIS STRATMAP CONTOURS, 1997
- 2. LIDAR SOURCES WERE FILTERED TO SHOW ONLY BARE EARTH, AND SUPPLEMENTED BY CONTOUR DATA WHERE LIDAR SOURCES WERE NOT AVAILABLE.
- 3. NAD 83 HORIZONTAL CONTROL DATUM WAS USED FOR HORIZONTAL COORDINATE VALUES.
- 4. NAVD 88 VERTICAL DATUM WAS USED FOR ELEVATION VALUES.
- 5. ALL DATA HAS BEEN REPROJECTED TO TEXAS STATE PLANE, SOUTH CENTRAL, CENTRAL, AND NORTH CENTRAL ZONES, US SURVEY FEET.
- 6. AERIAL IMAGERY WAS OBTAINED FROM ARCGIS ONLINE SERVICES, SOURCE: ESRI, DIGITALGLOBE TELINE IMPORT I WAS US LAINED FROM ARGOID UNLINE SERVICES. SUUKCE: ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEX, GETMAPPING, AEROGRID, IGN, IGP, SWISSTOPO, AND THE GIS USER COMMUNITY.
- 7 THE BACKGROUND IMAGERY ON THE PLAN SHEETS MAY SHOW BUILDINGS AND OTHER INFRASTRUCTURE THE BACKGROUND IMAGERT ON THE PLAN SHEETS MAY SHOW BUILDINGS AND OTHER INFRASTRUCTURE FEATURES THAT HAVE SUBSEQUENTLY BEEN REMOVED AND/OR DEMOLISHED. WHERE IT HAS BEEN VERIFIED THAT BUILDINGS HAVE BEEN REMOVED, DEMOLISHED, RECONFIGURED, OR CONSTRUCTED. THE AERIAL IMAGERY ON THE PLAN SHEET IS MARKED WITH HATCHING.

#### LOD NOTES:

- 1. THE PROJECT LOD WAS DEVELOPED TO DEFINE A CONSERVATIVE ESTIMATE OF THE POTENTIAL "PROJECT FOOTPRINT" FOR ENVIRONMENTAL ANALYSIS AND DOES NOT REPRESENT THE FINAL HSR RIGHT-OF-WAY (ROW)
- 2. LOD USED FOR EIS ANALYSIS FOOTPRINT, PROPERTY WITHIN THE LOD MAY BE RETURNED TO ADJACENT LANDOWNERS OR OTHER PRIVATE PARTIES FOLLOWING PROJECT CONSTRUCTION OR MAY BE TRANSFERRED TO ROADWAY OR UTILITY AUTHORITY AS APPROPRIATE. PROPOSED PROJECT WORKS WITHIN PRIVATE PROPERTIES WOULD BE SUBJECT TO NEGOTIATION WITH LANDOWNERS, ANY TEMPORARY OR PERMANENT USE OF LAND OWNED BY TXDOT, COUNTY, MUNICIPAL, OR OTHER PUBLIC ENTITIES WOULD REQUIRE APPROPRIATE APPROVALS.

#### TRACK NOTES:

- 1. THE ALIGNMENT SHOWN ON THE PLAN AND PROFILE DRAWINGS REPRESENTS THE CENTERLINE OF THE TWO-TRACK HSR MAINLINE TRACKS.
- 2. THE PROFILE SHOWN ON THE PLAN AND PROFILE DRAWINGS REPRESENTS THE TOP OF THE LOWER RAIL ORIZONTAL CURVES AND SPIRALS FOR THE TWO-TRACK HSR SYSTEM
- 3. THE PROPOSED HSR SYSTEM INCLUDES TWO TRACKS WITH ADDITIONAL TRACKS AT STATIONS MAINTENANCE OF WAY FACILITIES, AND TRAINSET MAINTENANCE FACILITIES, AS SHOWN ON DRAWINGS.
- MAINLINE CROSSOVERS ARE PROVIDED AT THE ENTRANCE AND EXIT OF ALL STATIONS, MAINTENANCE OF WAY (MOW) FACILITIES, AND TRAINSET MAINTENANCE FACILITIES (TMF).

#### PLAN AND PROFILE GENERAL NOTES:

- 1. SECTION TYPE DETAIL SHOWN ON PROFILE SHEETS REPRESENT A SIMPLIFIED SUMMARY OF THE MAJOR STRUCTURAL TYPE OF THE PROPOSED HSR. THE ACTUAL PLAN DIMENSIONS TAKE PRECEDENCE OVER THE SECTION TYPE IDENTIFIED IN PROFILE.
- 2. ALL EXISTING AND PROPOSED STRUCTURAL ELEMENTS SHOWN ARE BASED ON CONCEPTUAL ENGINEERING DESIGN AND AERIAL IMAGERY AND MAY BE REVISED BASED ON MORE ADVANCED SURVEY AND DESIGNS.
- 3. SEE SHEET GEN-00-00010 FOR A KEY TO INFORMATION SHOWN ON PLAN AND PROFILE DRAWINGS
- 4. LIMITS OF SPECIAL TRACK WORK ARE INDICATED ON THE PLAN SHEETS. ADDITIONAL DETAILS FOR MAINTENANCE OF WAY FACILITIES AND TRAINSET MAINTENANCE FACILITIES ARE SHOWN ON THE VOLUME 3 DRAWINGS.

DESCRIPTION

#### ROADWAY NOTES:

- 1. EXISTING ROADWAY LOCATIONS ARE APPROXIMATE BASED ON AERIAL IMAGERY BACKGROUNDS.
- 2. PROPOSED ROADWAY WORKS, INCLUDING NEW ROADWAYS, RECONFIGURATION AND REALIGNMENTS OF EXISTING ROADWAYS, AND ROADWAY REMOVALS ARE CONCEPTUAL IN NATURE AND WERE DEVELOPED TO IDENTIFY GENERAL CONFIGURATION AND LOCATION FOR ENVIRONMENTAL IMPACT ANALYSES. ROADWAY WORKS WOULD BE DETAILED DURING FINAL DESIGN AND WOULD COMPLY WITH APPLICABLE STATE, CITY, COUNTY, OR LOCAL REQUIREMENTS.
- 3. SEE SHEET GEN-00-00011 FOR A KEY TO INFORMATION SHOWN ON ROADWAY PLAN DRAWINGS.
- 4. ROADWAY GEOMETRY IS BASED ON TXDOT ROADWAY DESIGN MANUAL. ROAD DESIGN SPEEDS MATCH EXISTING POSTED SPEED LIMITS OR MATCH DESIGN SPEED DETERMINED FROM TXDOT ROADWAY FUNCTIONAL CLASSIFICATION SPEED GUIDELINES, WHICHEVER IS GREATER.
- 5. SUPERELEVATION TRANSITION LENGTHS WERE NOT DETAILED IN ROADWAY APPROACH DESIGN
- 6. SEE DRAWINGS CVL-00-03030 TO CVL-00-03034B FOR TYPICAL ROADWAY CROSS SECTIONS.
- 7. FOR SEGMENTS HN. WT, NW, EW, AND DS, ROADWAY REMOVALS ARE SHOWN ON RAIL PLAN AND PROFILE SHEETS, FOR SEGMENTS IH, NE, AND EE, ROADWAY REMOVALS ARE NOT SHOWN ON RAIL PLAN AND PROFILE SHEETS. REFER TO ROADWAY PLAN SHEETS IN VOLUME 4 FOR SEGMENT 2B, 3B, AND 4B
- 8. NOT ALL PRIVATE ROADS AND DRIVEWAYS ARE REPRESENTED ON THE RAIL PLAN AND PROFILE SHEETS.
- 9. THE CLEARANCE ENVELOPES SHOWN ON THE RAIL PLAN AND PROFILE SHEETS REPRESENT THE APPROXIMATE ROADWAY CLEARANCE ENVELOPE. THE BOTTOM OF THE CLEARANCE ENVELOPE REPRESENTS THE TOP OF THE ROADWAY PAVEMENT. CLEARANCE ENVELOPE DOES NOT INCLUDE ROADWAY STRUCTURAL ELEMENTS
- 10. ROADWAY ELEVATIONS FOR ROADWAY OVER RAILWAY CROSSINGS DO NOT REPRESENT THE PROPOSED ROADWAY ELEVATION, BUT RATHER THE MINIMUM HEIGHT REQUIRED FOR CLEARANCES, INCLUDING ALLOWANCES FOR ROADWAY STRUCTURAL ELEMENTS. SEE FCE REPORT FOR ADDITIONAL INFORMATION.
- 11. ROADWAY TYPICAL SECTIONS ACCOUNT FOR THE NECESSARY SPACE TO CONSTRUCT TEMPORARY ROADWAYS DURING CONSTRUCTION. CLOSE COORDINATION WITH ROADWAY AUTHORITIES, COMMUNITIES, AND EMERGENCY RESPONSE ENTITIES WOULD BE UNDERTAKEN DURING FINAL DESIGN AND CONSTRUCTION TO ENSURE ACCESS DURING THE CONSTRUCTION PHASE.
- 12. USE OF TXDOT RIGHT-OF-WAY FOR PERMANENT IMPROVEMENTS WILL REQUIRE THE APPROPRIATE APPROVAL FROM TXDOT.
- 13. PLANNED ROADS, SUCH AS MTFP ROADS IN HOUSTON, ARE SHOWN IN PROFILES IN VOLUME 2, BUT ARE NOT SHOWN IN PLAN IN VOLUME 2. AS THESE ROADS ARE PLANNED AND NOT EXISTING, THE AERIAL IMAGERY BACKGROUNDS DO NOT SHOW THESE ROADS. PLANNED ROADS ARE SHOWN IN THE FCE REPORT APPENDIX B: ROAD SEPARATION DATABASE.

#### TYPICAL SECTIONS NOTES:

- SECTIONS ILLUSTRATE TYPICAL REQUIREMENTS TO GUIDE CONCEPTUAL ENGINEERING DESIGN DEVELOPMENT, LOCATION SPECIFIC CONDITIONS WOULD ESTABLISH REQUIREMENTS AT EACH LOCATION AND OVERALL WIDTH OF LIMIT OF DISTURBANCE WOULD VARY AS IDENTIFIED ON DIMENSION LINES AND IN
- 2. OFFSET BETWEEN INFRASTRUCTURE ELEMENTS SUCH AS DISTANCE BETWEEN EMBANKMENT, FENCES, DRAINAGE SWALE, ACCESS ROAD, ETC. WOULD VARY BASED ON LOCAL REQUIREMENTS AND SITE SPECIFIC CONDITIONS.
- 3. TYPICAL ROADWAY DRAINAGE SYSTEM PROVIDED AS SHOWN IN TYPICAL SECTIONS. LOCATION SPECIFIC CONFIGURATION AND SIZE WOULD BE ADVANCED DURING MORE DETAILED DESIGN
- 4. LOCATION SPECIFIC CONDITIONS WOULD DICTATE FENCING REQUIREMENTS
- 5. EMBANKMENT HEIGHTS AND CUT DEPTHS VARY WITH SURROUNDING GRADE AND RAIL PROFILE ELEVATION
- 6. CRASH BARRIERS NOT SHOWN, LOCATION SPECIFIC CONDITIONS WILL DICTATE CRASH BARRIER REQUIREMENTS TO ENSURE SAFETY AND TO SATISFY APPLICABLE REGULATORY REQUIREMENTS.
- SUBSURFACE GROUND IMPROVEMENTS ARE NOT SHOWN AND WILL BE BASED ON SITE SPECIFIC
- 8. RAIL HEIGHT VARIES WITH SURROUNDING GRADE AND RAIL PROFILE. THE BOTTOM OF SUBBALLAST SHALL BE NO LESS THAN 2FT ABOVE 100 YEAR FLOODPLAIN.

#### UTILITIES NOTES:

D. THOMPSON

D. THOMPSON

R BURNS

C. TAYLOR

02/25/2019

- REFER TO THE FCE REPORT FOR A LIST OF MAJOR UTILITY CROSSINGS, THEIR ASSUMED SIZE, AND ASSOCIATED LOCATIONS ALONG THE ALIGNMENT.
- 2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE BASED ON INFORMATION RECEIVED, AS DOCUMENTED IN THE FINAL CONCEPTUAL ENGINEERING REPORT
- 3. NO FIELD SURVEYS HAVE BEEN CONDUCTED TO LOCATE AND VERIFY UTILITY LOCATIONS.
- 4. NOT ALL EXISTING UNDERGROUND UTILITIES HAVE BEEN SHOWN. REFER TO THE FCE REPORT FOR MAJOR UTILITIES INCLUDED IN PROJECT MAPPING.
- 5. LOD NOT SHOWN FOR UTILITIES THAT ARE NOT IMPACTED BY THE ALIGNMENT. ONLY MAJOR UTILITIES THAT ARE PROTECTED, RELOCATED OR ELEVATED ARE SHOWN ON THE PLAN AND PROFILE VIEW, REFER TO DRAWING NO. CUT-00-0100 FOR TYPICAL UTILITY CROSSING DETAILS. UTILITY LODS FOR FUTURE PROPOSED CONNECTIONS TO TPSS FACILITIES ARE SHOWN.
- 6. FOR PARALLEL TRANSMISSION LINE CROSSINGS OVER NEW ELEVATED ROADWAYS, A LOD IS SHOWN ON THE PLAN ONLY. REFER TO DRAWING NO. CUT-00-0100 FOR TYPICAL UTILITY CROSSING DETAILS.
- MANY UTILITY CONFLICTS ALONG THE HEMPSTEAD ROAD CORRIDOR IN HOUSTON WOULD BE RESOLVED DURING FINAL DESIGN. A CONTINUOUS LOD IS SHOWN ON THE DRAWINGS TO REPRESENT THAT UTILITIES WOULD BE RELOCATED ON ONE OR BOTH SIDES OF THE ROADWAY AS REQUIRED. ALL WORK WOULD BE COORDINATED WITH UTILITY PROVIDERS TO MINIMIZE IMPACTS AND COORDINATE WITH OTHER PLANNED UTILITY PROJECTS ALONG CORRIDOR.
- 8. FOR UTILITY WORK REQUIRED BY UTILITY COMPANIES, EACH UTILITY OWNER WOULD DEVELOP THE DESIGN IN ACCORDANCE WITH APPLICABLE DESIGN STANDARDS AND REGULATORY AGENCY REVIEW PROCESSES.

# RUP



2711 North Haskell Ave., Suite 3300 Dallas, Texas 75204 Tel (214) 217 2200 Fax (214) 217 2201 Texas Registered Engineering Firm: F-2144



BY pw:\\N-YPWINT01\_AMX\_DS01\Documents\234180-00\4 Internal Project Data\4-03 Drawings\4-03-10 General (PG)\4-03-10-02 Sheets\234180-AFN-GEN-DWG-00-00008-V002

DATE

Arup Texas, Inc. 10370 Richmond Ave., Sulte 475 Houston, Texas 77042 USA Tel (713) 783 2787 Fax (713) 343 1467 www.arup.com Texas Registered Engineering Firm: F-1990

#### DRAINAGE NOTES:

- PROPOSED DETENTION BASIN LO INTENDED FOR PRELIMINARY PLA SPECIFIC CONFIGURATIONS WOU APPLICABLE REQUIREMENTS.
- 2. EXISTING CULVERTS ARE NOT SH

- 4. EXISTING STORMWATER FACILITI
- 5 TEXAS COMMISSION ON ENVIRON STORMWATER RUNOFF AND PROT
  - 6. CONSTRUCTION OF THE RAIL MAY IMMEDIATELY ADJACENT TO THE A FULL RELOCATION OF THE PON THE FULL RELOCATION OF THE P COORDINATION WITH LANDO LANDOWNER PREFERENCES.

#### STRUCTURES GENERAL NOTE

- 1. TYPICAL SECTIONS WERE DEVE STRUCTURAL ELEMENTS. TYPIC ENVIRONMENTAL ANALYSIS.
- 2. APPROXIMATE HSR VIADUCT AND TO SUPPORT ENVIRONMENTAL REFINED DURING FINAL DESIGN
- 3. PLAN AND PROFILE DRAWINGS I STRUCTURAL DESIGN WOULD B APPLICABLE REQUIREMENTS WOULD BE DEVELOPED TO MIT
- 4. HSR PROFILE WAS DEVELOPED 100 YEAR FLOOD LEVEL TO BRID WOULD BE DEVELOPED TO MEE
- SPECIAL STRUCTURES WOULD B ISSUES SUCH AS LONG SPANS, IMPACTS. THE CONSTRUCTABIL PROFILE DRAWINGS IDENTIFY A AREAS FOR SPECIAL STRUCTUR

### SYSTEMS GENERAL NOTES:

- 1. SYSTEMS SCHEMATICS, SHOWN SYSTEMS FACILITIES THAT HAVE
- 2 AREA FOR SYSTEMS FACILITY S GENERICALLY CALLED OUT AS REPORT TO DETERMINE THE SP
- 3. TYPICAL LAYOUT PLANS FOR EA HROUGH SYS-00-01006
- 4. LOD DEVELOPED FOR ENVIRON DRIVEWAY AND SPACE TO PARK
- 5. SYSTEMS BUILDINGS WOULD BE CONDITIONS, BE CONTEXT SENS COMMUNICATION FACILITIES WO
- TPSS WOULD BE CONNECTED TO PROVIDER AND SUBJECT TO ENV

#### FACILITY NOTES:

## 2. ALL FACILITIES WOULD BE POWE

3. ACCESS, SECURITY, AND UTILITY DURING FINAL DESIGN.

#### CONSTRUCTION CONSIDERAT

к	L	М	N	0	Р
RAIN	AGE NOTES:				
	PROPOSED DETENTION BASIN LOCATIONS AND D INTENDED FOR PRELIMINARY PLANNING AND ENV SPECIFIC CONFIGURATIONS WOULD BE DEVELOP APPLICABLE REQUIREMENTS.	RONMENTAL IMPAC	T ANALYSIS PURPOSES ONL	Y. SITE	
	EXISTING CULVERTS ARE NOT SHOWN. PROPOSED TRACK AND ROADWAY STORMWATER				
	IN ACCORDANCE WITH APPLICABLE REQUIREMEN PROPOSED CONFIGURATIONS.	ITS. REFER TO TYPI			
4. 5.	EXISTING STORMWATER FACILITIES ARE NOT SHO TEXAS COMMISSION ON ENVIRONMENTAL QUALIT		IALITY CRITERIA WOULD BE M	AET FOR	
	STORMWATER RUNOFF AND PROTECTION OF EXI	STING WATER RESC	URCES.		
6.	CONSTRUCTION OF THE RAIL MAY REQUIRE THE I IMMEDIATELY ADJACENT TO THE RAIL CORRIDOR A FULL RELOCATION OF THE POND, ALLOWANCES THE FULL RELOCATION OF THE POND IS NOT REC COORDINATION WITH LANDOWNER WILL BE UNDE LANDOWNER PREFERENCES.	: IN CASES WHERE 1 S HAVE BEEN MADE ' QUIRED UNDER THE (	HE CURRENT DESIGN NECES WITHIN THE LOD. IN CASES W CURRENT DESIGN, ADDITION	SSITATES HERE AL	
TRU	CTURES GENERAL NOTES:				
1.	TYPICAL SECTIONS WERE DEVELOPED TO IDENT STRUCTURAL ELEMENTS. TYPICAL SECTIONS W ENVIRONMENTAL ANALYSIS.				
2.	APPROXIMATE HSR VIADUCT AND BRIDGE STRU TO SUPPORT ENVIRONMENTAL IMPACT ANALYSI REFINED DURING FINAL DESIGN.				
3.	PLAN AND PROFILE DRAWINGS DO NOT SHOW LI STRUCTURAL DESIGN WOULD BE DEVELOPED D APPLICABLE REQUIREMENTS. DESIGN OF FOUN WOULD BE DEVELOPED TO MITIGATE ANY IMPAC	URING FINAL ENGIN DATIONS, ABUTMEN	EERING IN ACCORDANCE WIT TS, PIERS AND OTHER STRUC	H CTURES	
4.	HSR PROFILE WAS DEVELOPED TO PROVIDE A M 100 YEAR FLOOD LEVEL TO BRIDGE SOFFIT FOR WOULD BE DEVELOPED TO MEET OR EXCEED TH	RIVER AND FLOODF			
5.	SPECIAL STRUCTURES WOULD BE REQUIRED TO ISSUES SUCH AS LONG SPANS, CROSSOVER STI IMPACTS. THE CONSTRUCTABILITY REPORT IDE PROFILE DRAWINGS IDENTIFY ADDITIONAL LOD AREAS FOR SPECIAL STRUCTURES.	RUCTURES, AND STR INTIFIES SPECIAL ST	RADDLE BENTS TO AVOID OR RUCTURE LOCATIONS. PLAN	MITIGATE AND	
YST	EMS GENERAL NOTES:				
1.	SYSTEMS SCHEMATICS, SHOWN ON SHEETS SY SYSTEMS FACILITIES THAT HAVE BEEN INCLUDE			IONS OF	
2.	AREA FOR SYSTEMS FACILITY SITES HAVE BEEN GENERICALLY CALLED OUT AS "RAIL SYSTEMS S REPORT TO DETERMINE THE SPECIFIC FACILITY	SITES" ON THE PLAN	AND PROFILE SHEETS. REFER		
3.	TYPICAL LAYOUT PLANS FOR EACH OF THE SYS THROUGH SYS-00-01006.	TEMS FACILITIES AR	E INCLUDED IN SHEETS SYS-0	00-01000	
4.	LOD DEVELOPED FOR ENVIRONMENTAL IMPACT DRIVEWAY AND SPACE TO PARK A LIMITED NUM	BER OF MAINTENAN	CE VEHICLES.	FOR A	
5.	SYSTEMS BUILDINGS WOULD BE DETAILED DURI CONDITIONS, BE CONTEXT SENSITIVE, AND MINI COMMUNICATION FACILITIES WOULD BE APPRO2	MIZE VISUAL IMPAC	T. THE RADIO MAST AT	EVATION.	
6.	TPSS WOULD BE CONNECTED TO THE NEAREST PROVIDER AND SUBJECT TO ENVIRONMENTAL R		ON LINES DESIGNED BY UTILIT	ΓY	
ACIL	<u>ITY NOTES:</u>				
1.	PROPOSED HSR FACILITIES WOULD INCLUDE ST MAINTENANCE OF WAY (MOW) FACILITIES, TRAIN SYSTEMS SITES, INCLUDING TRACTION POWER COMMUNICATIONS HOUSES, LOCATIONS, LIMITS PROPOSED FACILITIES ARE FOR PRELIMINARY F	SET MAINTENANCE SUPPLY FACILITIES, OF DISTURBANCE, .	FACILITIES (TMF), AND RAILW SIGNAL HOUSES, AND AND AREAS SHOWN FOR THE		
	ALL FACILITIES WOULD BE POWERED FROM THE				
3.	ACCESS, SECURITY, AND UTILITY PROVISION RE DURING FINAL DESIGN.	QUIKEMENTS FOR A	LL FAGILITIES WOULD BE DET	IAILEU	
ONS	TRUCTION CONSIDERATION NOTES	<u>;</u>			
1. 2.	CONSTRUCTION REQUIREMENTS WERE CONSIDER ENGINEERING AND ARE DOCUMENTED IN THE PRO. TEMPORARY CONSTRUCTION AREAS REQUIRED FO	IECT CONSTRUCTABI	ITY REPORT.		
2.	PRECASTING FACILITIES WERE IDENTIFIED DURING CONSTRUCTION STAGING AREAS AND PRECAST FA	DEVELOPMENT OF T	HE CONCEPTUAL ENGINEERING		
3.	SPECIAL STRUCTURES REQUIRED TO MITIGATE IMP LONG SPANS, CROSSOVER STRUCTURES, AND STR REPORT.				
4.	MEASURES REQUIRED TO MITIGATE NOISE, TRAFFI IDENTIFIED THROUGH THE ENVIRONMENTAL ANALY MAINTENANCE AND PROTECTION OF TRAFFIC AND WOULD BE REQUIRED TO SECURE APPLICABLE PER WORKS.	SES. MORE DETAILE	D DESIGN INCLUDING DEVELOP ON SPECIFIC PLANS AND PROCE	MENT OF EDURES	
	DALLAS TO HOUSTON HIGH-SPEED RAIL	Drawing Title		Scale	
S	FINAL CONCEPTUAL ENGINEERING			NO SCALE Drawing Status	
-			GENERAL NOTES	F	FINAL Rev
	1409 South Lamar Street, Suite 1022, Dallas.Texas 75215			234180	GEN-00-00008 01

# VOLUME 5B WILDLIFE CROSSING SHEETS (SEGMENTS IH, NE, EE)

		VOLUMES.	
Image: Marking State         Image: Ma	CHECKED BY K. SEYMOUR D. THOMPSON CHECKED BY R. BURNS N. CHARGE C. TAYLOR DATE 2/25/2019	ADID FREESE DALLAS TO HOUSTON HIGH-SPEED RAIL FINAL CONCEPTUAL ENGINEERING Drawing Title NO SCALE	

pw:\\N-YPWINT01:AMX\_DS01\Documents\234180-00\4 Internal Project Data\4-03 Drawings\4-03-10 General (PG)\4-03-10-02 Sheets\234180-AFN-GEN-DWG-00-00031-V002

22x34

#### NOTE:

AFTER RELEASE OF THE DRAFT EIS (DEIS), WHICH IDENTIFIED ALTERNATIVE A AS THE PREFERRED ALTERNATIVE, ADDITIONAL DESIGN DEVELOPMENT AND REFINEMENT OF ALTERNATIVE A WAS UNDERTAKEN TO MITIGATE IMPACTS AND TO IMPROVE CONSTRUCTABILITY THIS REPORT ADDRESSES THE REFINED DESIGN APPROACHES AND DETAILS FOR THE SEGMENTS IN BUILD ALTERNATIVE A. FOR ALL OTHER SEGMENTS NOT A PART OF THE PREFERRED ALTERNATIVE (ELLIS EAST NAVARRO EAST, AND IH-45 SEGMENTS), NO CHANGES TO DESIGN WERE ADVANCED OTHER THAN ALIGNMENT REVISIONS REQUIRED TO ACCOUNT FOR ALIGNMENT REVISIONS ADVANCED IN ALTERNATIVE A. TO FACILITATE COMPARISON FOR IMPACT ANALYSIS, THE APPENDICES TO THE FCE REPORT INCLUDES ALL SEGMENTS. THE DRAWING SET HAS BEEN ORGANIZED INTO VOLUMES 1A-5A AND 1B-5B, WITH THE PREFERRED ALTERNATIVE DESIGN DRAWINGS INCLUDED IN THE 1A-5A



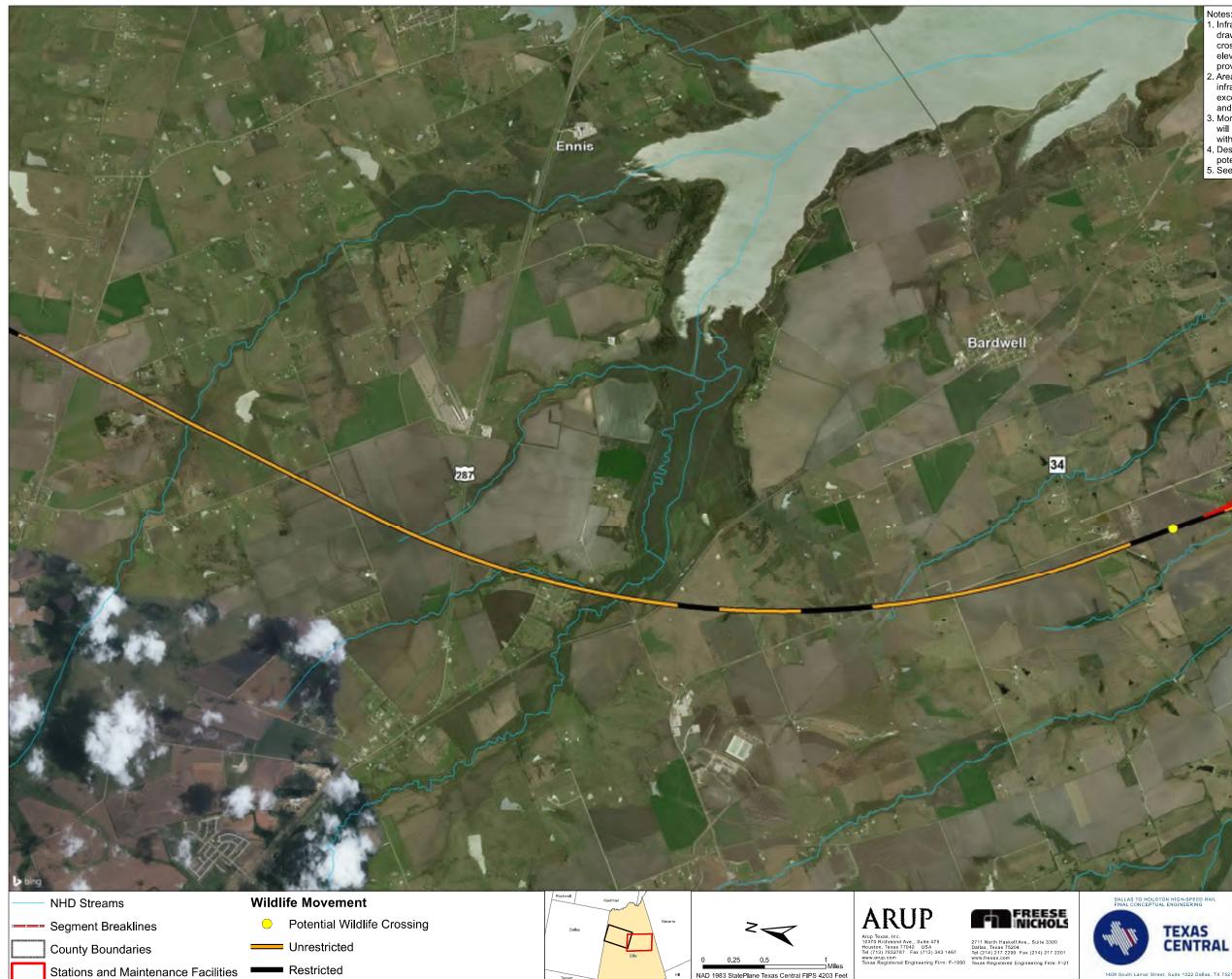
Imagery Source: Bing Aerial Imagery

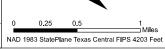
- Notes:
  1. Infrastructure configuration shown represents Conceptual Engineering drawings in FCE Report. Approximate limits shown for purposes of wildlife crossing considerations. More detail on infrastructure configurations, profile elevations, culvert locations, roadway crossings and other considerations provided on engineering drawings.
  2. Areas shown as Restricted illustrates general limits where infrastructure configuration would restrict crossing of HSR ROW by wildlife, except for small animals identified in FCE Report at culvert locations and designated Wildlife Crossing locations.
  3. More detailed analysis of specific Wildlife Crossing locations and provisions will be developed based upon results of environmental analysis and coordination with relevant agencies, regulatory bodies, and project stakeholders.
- with relevant agencies, regulatory bodies, and project stakeholders. . Designated Urban Regions do not require Wildlife Crossings due to the low
- potential for wildlife in the area. 5. See FCE Report, Chapter 16 for more information



EE Segment THSR Potential Wildlife Crossings Sheet 1 of 15

File Name EllisEast_WildlifeCrossings.mxd		D	ate 02/	25/2019
Status FINAL		1	Drawn MP	
Job No 234180-00	Drawing WLC-EE-04001			Rev P1
	1			Arup Tex











#### Notes:

- Notes:
   Infrastructure configuration shown represents Conceptual Engineering drawings in FCE Report. Approximate limits shown for purposes of wildlife crossing considerations. More detail on infrastructure configurations, profile elevations, culvert locations, roadway crossings and other considerations provided on engineering drawings.
   Areas shown as Restricted illustrates general limits where infrastructure configuration would restrict crossing of HSR ROW by wildlife, except for small animals identified in FCE Report at culvert locations and designated Wildlife Crossing locations.
   More detailed analysis of specific Wildlife Crossing locations and provisions will be developed based upon results of environmental analysis and coordination with relevant agencies, regulatory bodies, and project stakeholders.
   Designated Urban Regions do not require Wildlife Crossings due to the low potential for wildlife in the area.
   See FCE Report, Chapter 16 for more information.

Limit of Ellis East Segment For Continuation, See Navarro East, Navarro West or 145 Segments

EE Segment THSR Potential Wildlife Crossings Sheet 2 of 15

File Name EllisEast_WildlifeCrossings.mxd		Date 02/25/2		
	-	Drawn I MK		
Drawing WLC-EE-04002			Rev P1	
	Drawing	Drawing	Drawing	

Arup Texas

Limit of Navarro East Segment For Continuation, See Ellis East or Ellis West Segments



Notes:

- Notes:
   Infrastructure configuration shown represents Conceptual Engineering drawings in FCE Report. Approximate limits shown for purposes of wildlife crossing considerations. More detail on infrastructure configurations, profile elevations, culvert locations, roadway crossings and other considerations provided on engineering drawings.
   Areas shown as Restricted illustrates general limits where infrastructure configuration would restrict crossing of HSR ROW by wildlife, except for small animals identified in FCE Report at culvert locations and designated Wildlife Crossing locations.
   More detailed analysis of specific Wildlife Crossing locations and provisions will be developed based upon results of environmental analysis and coordination with relevant agencies, regulatory bodies, and project stakeholders.
   Designated Urban Regions do not require Wildlife Crossings due to the low

- Designated Urban Regions do not require Wildlife Crossings due to the low potential for wildlife in the area. 5. See FCE Report, Chapter 16 for more information.

DALLAS TO HOUSTON HIGH-SPEED RAIL FINAL CONCEPTUAL ENGINEERING

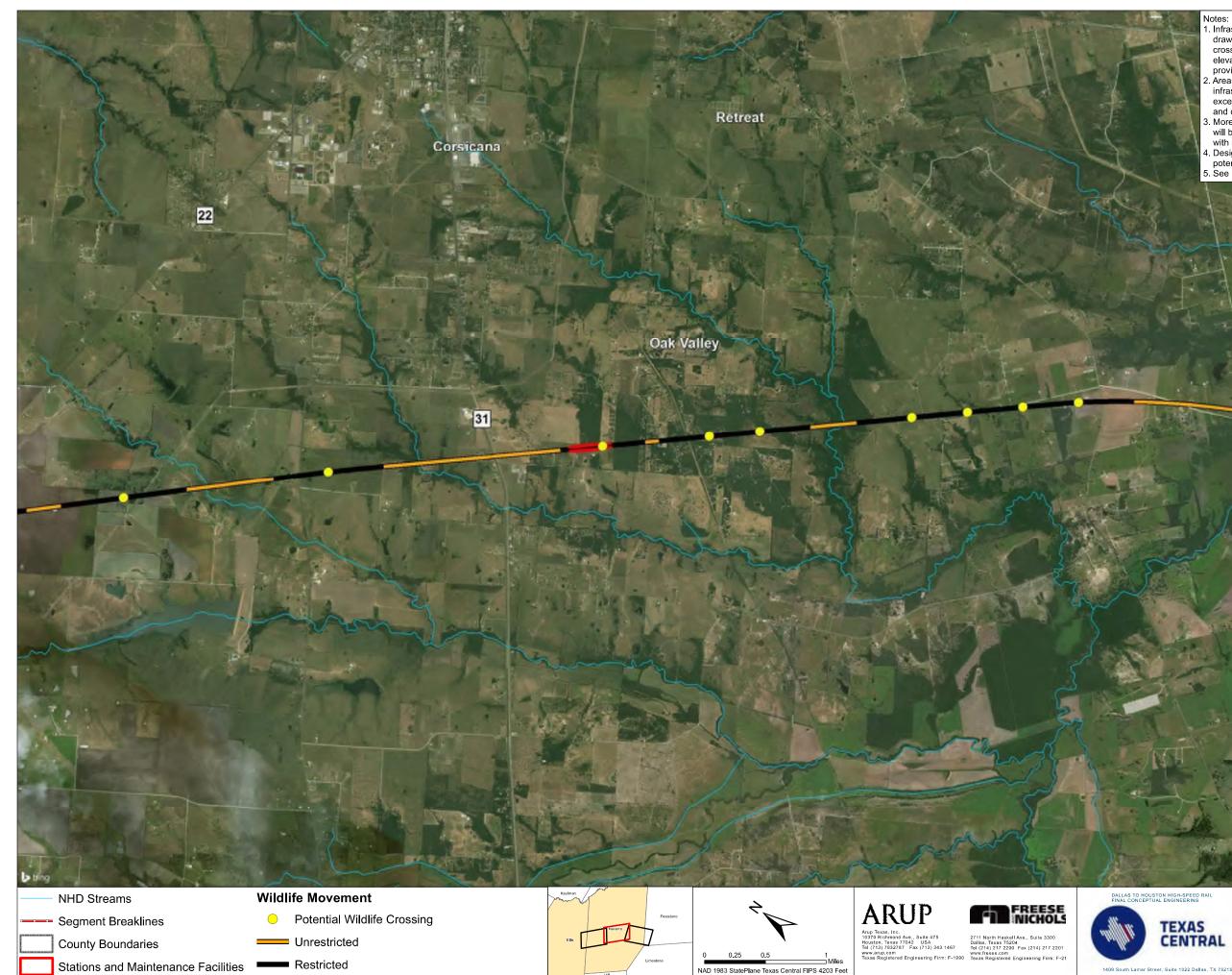
Barry



22

NE Segment THSR Potential Wildlife Crossings Sheet 3 of 15

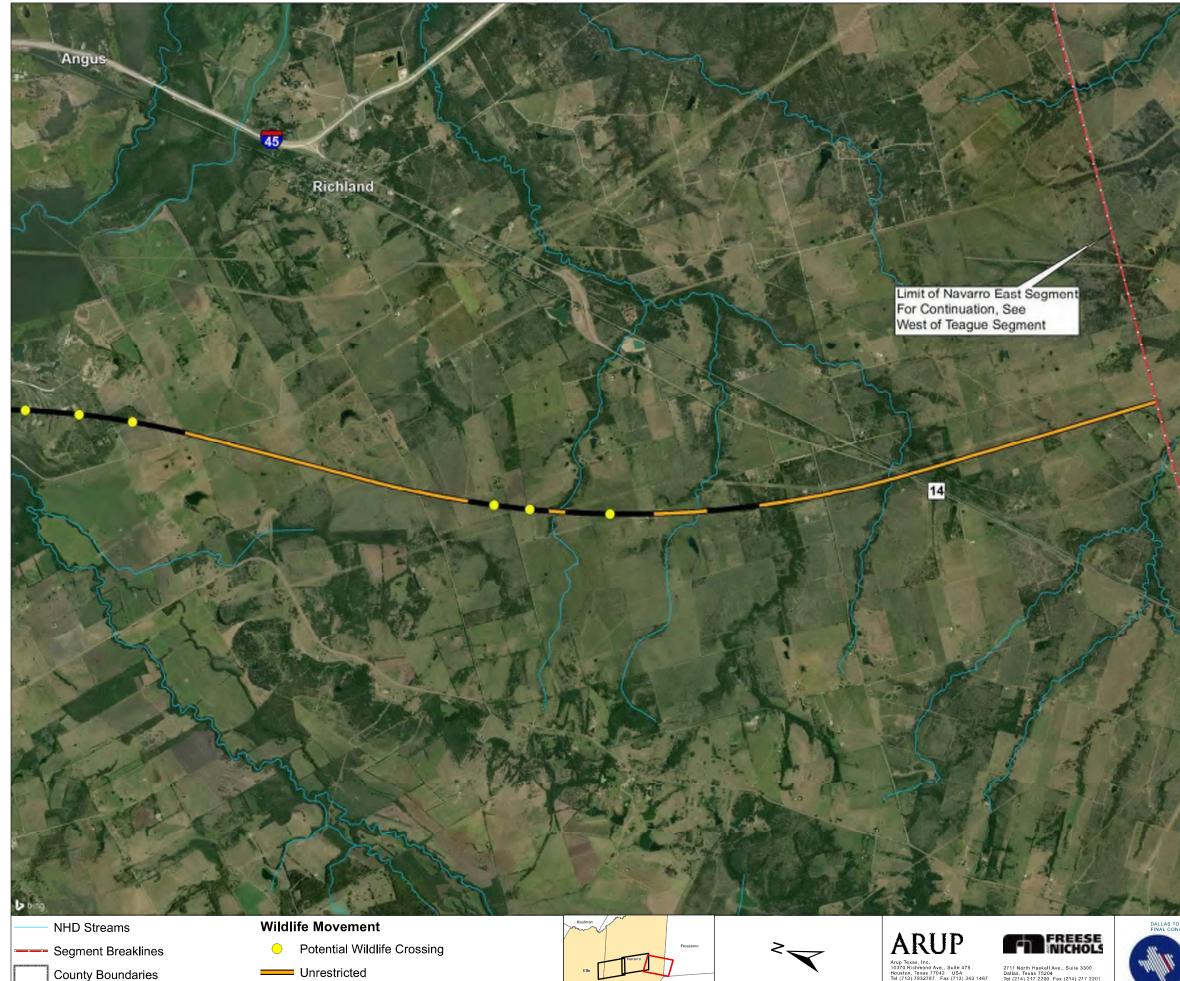
File Name NavarroEast_WildlifeCrossings.mxd		D	ate 02/2	5/2019
Status FINAL			Drawn I MK	
Job No 234180-00	Drawing WLC-NE-04001			Rev P1



- Notes:
   Infrastructure configuration shown represents Conceptual Engineering drawings in FCE Report. Approximate limits shown for purposes of wildlife crossing considerations. More detail on infrastructure configurations, profile elevations, culvert locations, roadway crossings and other considerations provided on engineering drawings.
   Areas shown as Restricted illustrates general limits where infrastructure configuration would restrict crossing of HSR ROW by wildlife, except for small animals identified in FCE Report at culvert locations and designated Wildlife Crossing locations.
   More detailed analysis of specific Wildlife Crossing locations and provisions will be developed based upon results of environmental analysis and coordination with relevant agencies, regulatory bodies, and project stakeholders.
   Designated Urban Regions do not require Wildlife Crossings due to the low potential for wildlife in the area.
   See FCE Report, Chapter 16 for more information.

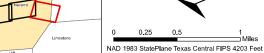
NE Segment THSR Potential Wildlife Crossings Sheet 4 of 15

File Name NavarroEast_WildlifeCrossings.mxd		D	ate 02/2	5/2019
Status FINAL			Drawn I MK	
Job No 234180-00	Drawing WLC-NE-04002		1	Rev P1



magery Source:	Bing Aerial Imagery	

Stations and Maintenance Facilities Restricted









Notes:

- Notes:
  1. Infrastructure configuration shown represents Conceptual Engineering drawings in FCE Report. Approximate limits shown for purposes of wildlife crossing considerations. More detail on infrastructure configurations, profile elevations, culvert locations, roadway crossings and other considerations provided on engineering drawings.
  2. Areas shown as Restricted illustrates general limits where infrastructure configuration would restrict crossing of HSR ROW by wildlife, except for small animals identified in FCE Report at culvert locations and designated Wildlife Crossing locations.
  3. More detailed analysis of specific Wildlife Crossing locations and provisions will be developed based upon results of environmental analysis and coordination with relevant agencies, regulatory bodies, and project stakeholders.
- with relevant agencies, regulatory bodies, and project stakeholders.
- . Designated Urban Regions do not require Wildlife Crossings due to the low potential for wildlife in the area. See FCE Report, Chapter 16 for more information

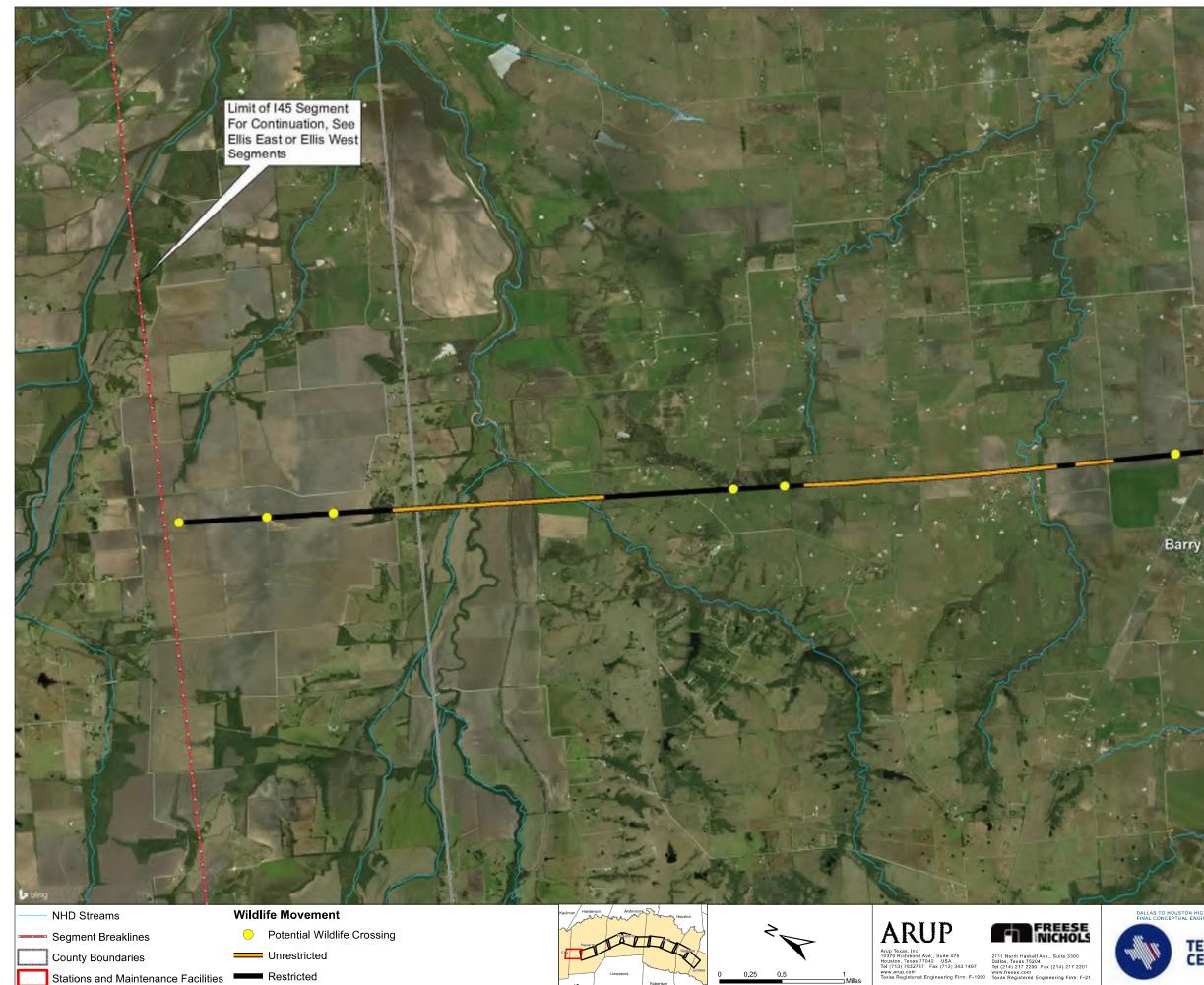
DALLAS TO HOUSTON HIGH-SPEED RAIL FINAL CONCEPTUAL ENGINEERING



NE Segment THSR Potential Wildlife Crossings Sheet 5 of 15

File Name NavarroEast_WildlifeCrossings.mxd		D	ate 02/2	5/2019	
Status FINAL			Drawn MP		
Job No 234180-00	Drawing WLC-NE-04003		1	Rev P1	

Wortham



Fals

Stations and Maintenance Facilities Restricted

0.25

NAD 1983 StatePlane Texas Central FIPS 4203 Feet

#### Notes:

22

- Notes:
   Infrastructure configuration shown represents Conceptual Engineering drawings in FCE Report. Approximate limits shown for purposes of wildlife crossing considerations. More detail on infrastructure configurations, profile elevations, culvert locations, roadway crossings and other considerations provided on engineering drawings.
   Areas shown as Restricted illustrates general limits where infrastructure configuration would restrict crossing of HSR ROW by wildlife, except for small animals identified in FCE Report at culvert locations and designated Wildlife Crossing locations.
   More detailed analysis of specific Wildlife Crossing locations and provisions will be developed based upon results of environmental analysis and coordination with relevant agencies, regulatory bodies, and project stakeholders.
   Designated Urban Regions do not require Wildlife Crossings due to the low

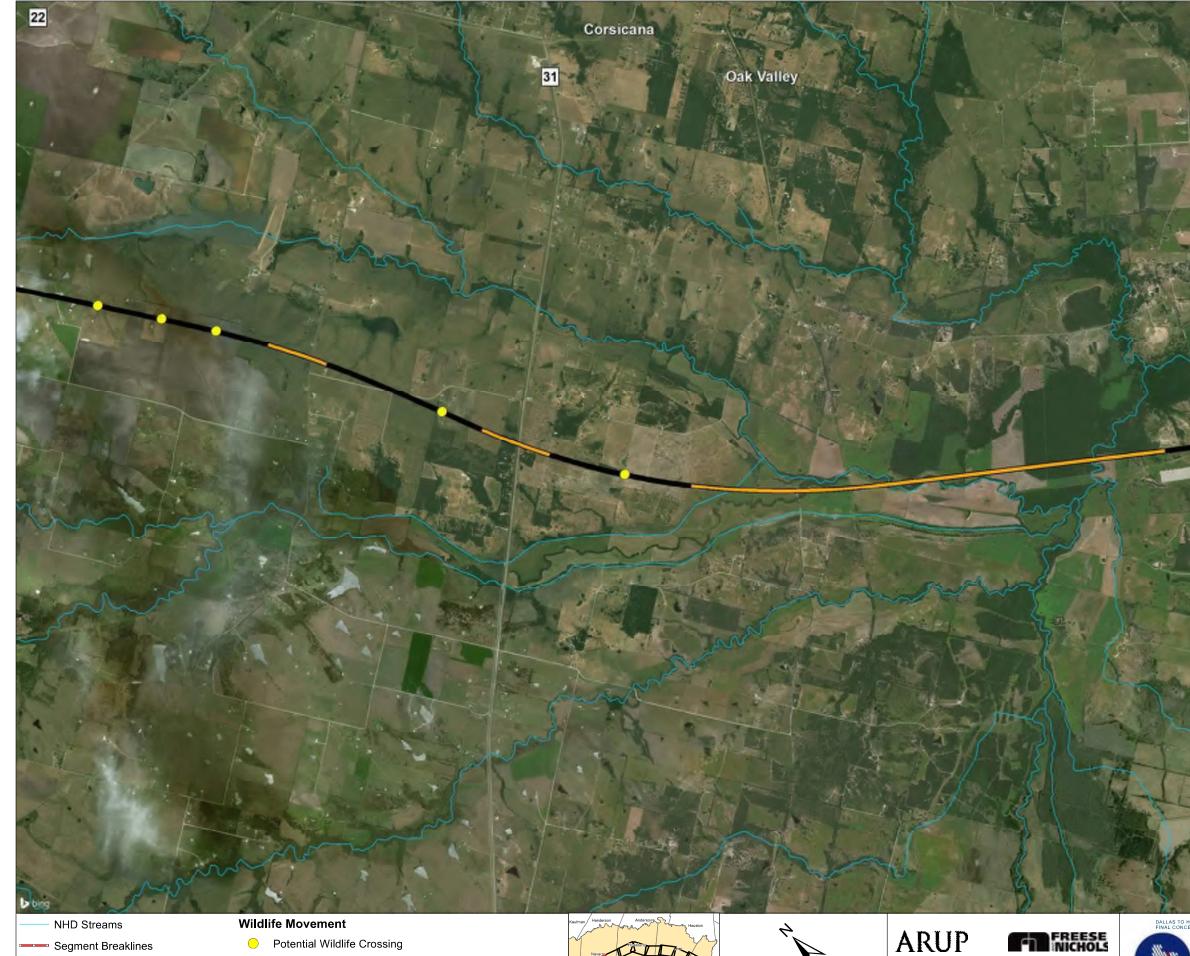
- Designated Urban Regions do not require Wildlife Crossings due to the low potential for wildlife in the area. See FCE Report, Chapter 16 for more information.





IH Segment THŠR Potential Wildlife Crossings Sheet 6 of 15

File Name 45_WildlifeCrossings.mxd		Dat	Date 02/25/2019		
Status FINAL			Drawn Mł		
Job No 234180-00	Drawing WLC-IH-04001			Rev P1	



Segment Breaklines

**County Boundaries** 

Stations and Maintenance Facilities Restricted

Potential Wildlife Crossing Unrestricted

0.25 NAD 1983 StatePlane Texas Central FIPS 4203 Feet

Arup Texas, Inc. 10370 Richmond Ave., Suite 475 Houston, Texas 77042 USA Tel (713) 7832787 Fax (713) 343 1467 www.arup.com Texas Registered Engineering Firm: F-1990 2711 North Haskell Ave., Suite 3300 Dallas, Texas 75204 Tel (214) 217 2200 Fax (214) 217 2201 www.freese.com Texas Registered Engineering Firm: F-21



Imagery Source: Bing Aerial Imagery

1409 South Lamar Street, Suite 1022 Dallas, TX 7521

#### Notes:

- Notes:
   Infrastructure configuration shown represents Conceptual Engineering drawings in FCE Report. Approximate limits shown for purposes of wildlife crossing considerations. More detail on infrastructure configurations, profile elevations, culvert locations, roadway crossings and other considerations provided on engineering drawings.
   Areas shown as Restricted illustrates general limits where infrastructure configuration would restrict crossing of HSR ROW by wildlife, except for small animals identified in FCE Report at culvert locations and designated Wildlife Crossing locations.
   More detailed analysis of specific Wildlife Crossing locations and provisions will be developed based upon results of environmental analysis and coordination with relevant agencies, regulatory bodies, and project stakeholders.
   Designated Urban Regions do not require Wildlife Crossings due to the low

- Designated Urban Regions do not require Wildlife Crossings due to the low potential for wildlife in the area. See FCE Report, Chapter 16 for more information

DALLAS TO HOUSTON HIGH-SPEED RAIL FINAL CONCEPTUAL ENGINEERING



IH Segment THŠR Potential Wildlife Crossings Sheet 7 of 15

File Name 45_WildlifeCrossings.mxd		Da	Date 02/25/2019		
Status FINAL			Drawn MF	·	
Job No 234180-00	Drawing WLC-IH-04002		1	Rev P1	



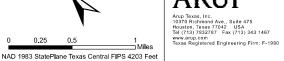
County Boundaries	Unrestricte
Stations and Maintenance Facilities	Restricted

Potential Wildlife Crossing Unrestricted





Fals







#### Notes:

- Notes:
   Infrastructure configuration shown represents Conceptual Engineering drawings in FCE Report. Approximate limits shown for purposes of wildlife crossing considerations. More detail on infrastructure configurations, profile elevations, culvert locations, roadway crossings and other considerations provided on engineering drawings.
   Areas shown as Restricted illustrates general limits where infrastructure configuration would restrict crossing of HSR ROW by wildlife, except for small animals identified in FCE Report at culvert locations and designated Wildlife Crossing locations.
   More detailed analysis of specific Wildlife Crossing locations and provisions will be developed based upon results of environmental analysis and coordination with relevant agencies, regulatory bodies, and project stakeholders.
   Designated Urban Regions do not require Wildlife Crossings due to the low potential for wildlife in the area.

- potential for wildlife in the area. See FCE Report, Chapter 16 for more information

DALLAS TO HOUSTON HIGH-SPEED RAIL FINAL CONCEPTUAL ENGINEERING



IH Segment THSR Potential Wildlife Crossings Sheet 8 of 15

File Name 45_WildlifeCrossings.mxd		Date 02/25/20		5/2019	
Status FINAL			Drawn Mł		
Job No 234180-00	Drawing WLC-IH-04003		1	Rev P1	



Segment Breaklines

**County Boundaries** 

Stations and Maintenance Facilities Restricted

Potential Wildlife Crossing Unrestricted

Fals

0.25

ARUP Houston, Texas 77042 USA Tel (713) 7832787 Fax (713) 343 1467 www.arup.com Texas Registered Engineering Firm: F-1990 Texas 77042 USA 7832787 Fax (713) 343 1467 NAD 1983 StatePlane Texas Central FIPS 4203 Feet

2711 North Haskell Ave., Suite 3300 Dallas, Texas 75204 Tel (214) 217 2200 Fax (214) 217 2201 www.freese.com Texas Registered Engineering Firm: F-21



Imagery Source: Bing Aerial Imagery

Notes:

- Notes:
   Infrastructure configuration shown represents Conceptual Engineering drawings in FCE Report. Approximate limits shown for purposes of wildlife crossing considerations. More detail on infrastructure configurations, profile elevations, culvert locations, roadway crossings and other considerations provided on engineering drawings.
   Areas shown as Restricted illustrates general limits where infrastructure configuration would restrict crossing of HSR ROW by wildlife, except for small animals identified in FCE Report at culvert locations and designated Wildlife Crossing locations.
   More detailed analysis of specific Wildlife Crossing locations and provisions will be developed based upon results of environmental analysis and coordination with relevant agencies, regulatory bodies, and project stakeholders.
   Designated Urban Regions do not require Wildlife Crossings due to the low potential for wildlife in the area.

- potential for wildlife in the area. See FCE Report, Chapter 16 for more information

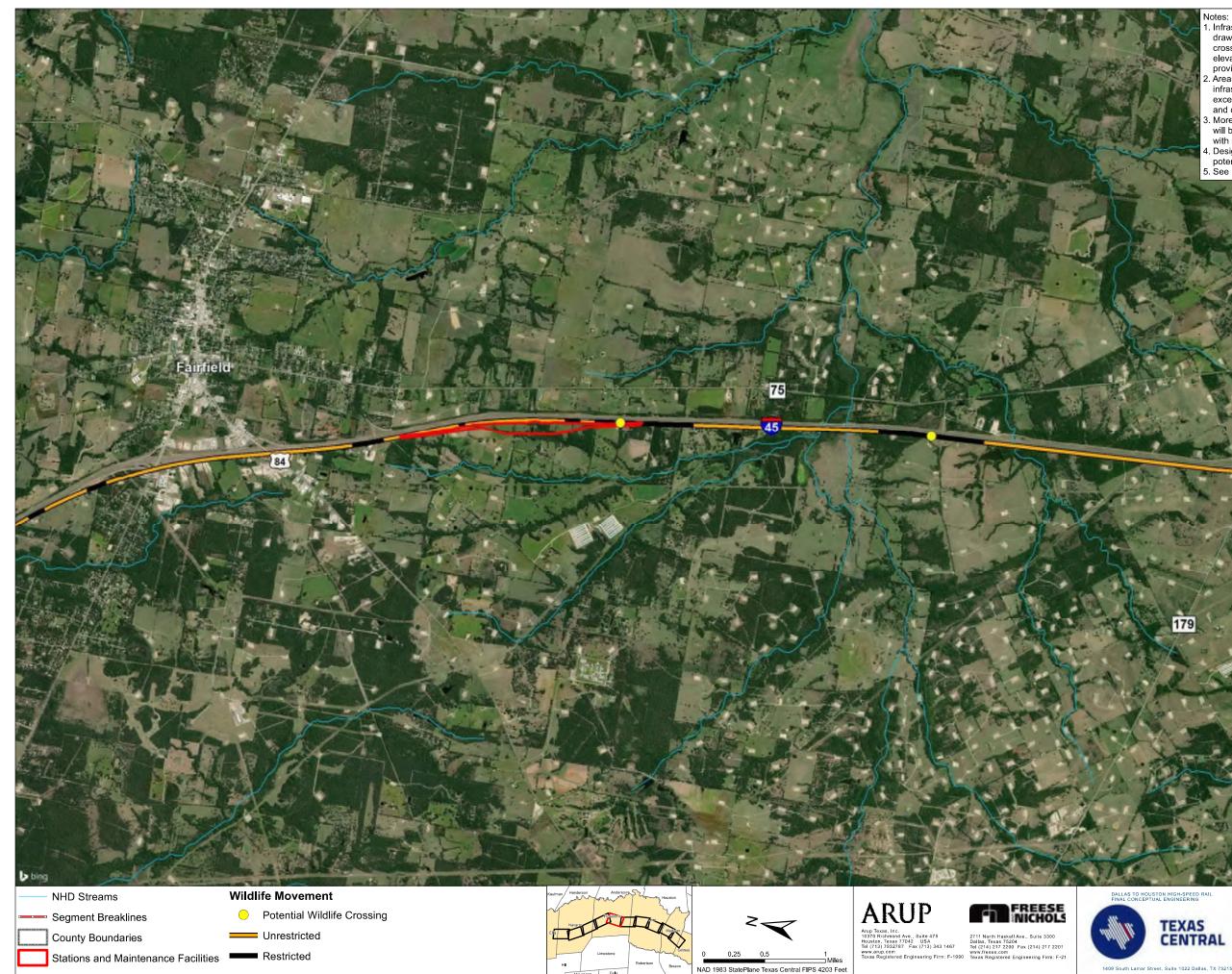
DALLAS TO HOUSTON HIGH-SPEED RAIL FINAL CONCEPTUAL ENGINEERING



IH Segment THSR Potential Wildlife Crossings Sheet 9 of 15

File Name 45_WildlifeCrossings.mxd		Date 02/25/201		
Status FINAL	Drawn		·	
Job No 234180-00	Drawing WLC-IH-04004		Rev P1	

airfield



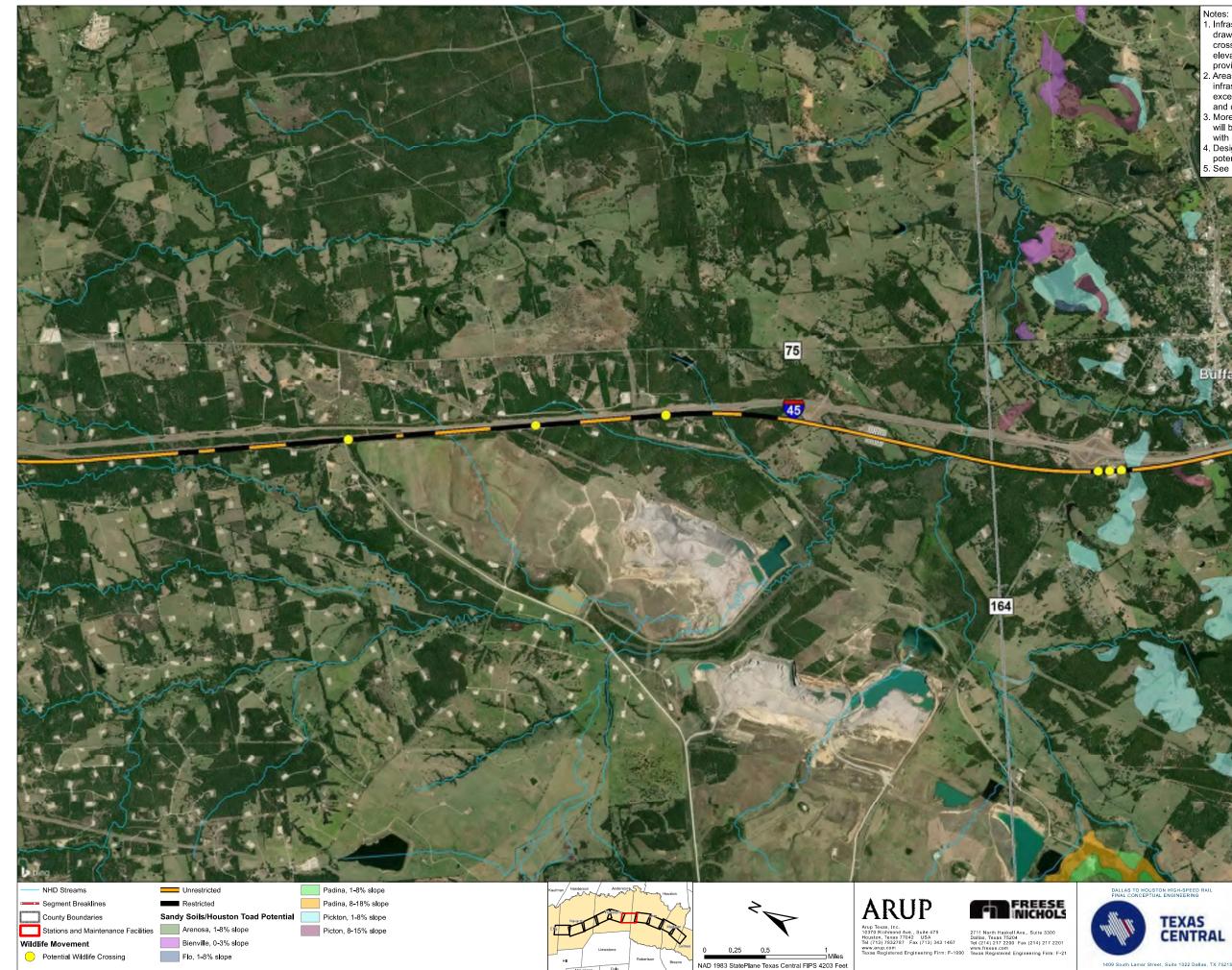
Fals

- Notes:
   Infrastructure configuration shown represents Conceptual Engineering drawings in FCE Report. Approximate limits shown for purposes of wildlife crossing considerations. More detail on infrastructure configurations, profile elevations, culvert locations, roadway crossings and other considerations provided on engineering drawings.
   Areas shown as Restricted illustrates general limits where infrastructure configuration would restrict crossing of HSR ROW by wildlife, except for small animals identified in FCE Report at culvert locations and designated Wildlife Crossing locations.
   More detailed analysis of specific Wildlife Crossing locations and provisions will be developed based upon results of environmental analysis and coordination with relevant agencies, regulatory bodies, and project stakeholders.
   Designated Urban Regions do not require Wildlife Crossings due to the low

- Designated Urban Regions do not require Wildlife Crossings due to the low potential for wildlife in the area. 5. See FCE Report, Chapter 16 for more information

IH Segment THSR Potential Wildlife Crossings Sheet 10 of 15

File Name 45_WildlifeCrossings.mxd		Date 02/25/2019		019
Status FINAL			Drawn By MK	
Job No 234180-00	Drawing WLC-IH-04005		R	ev P1



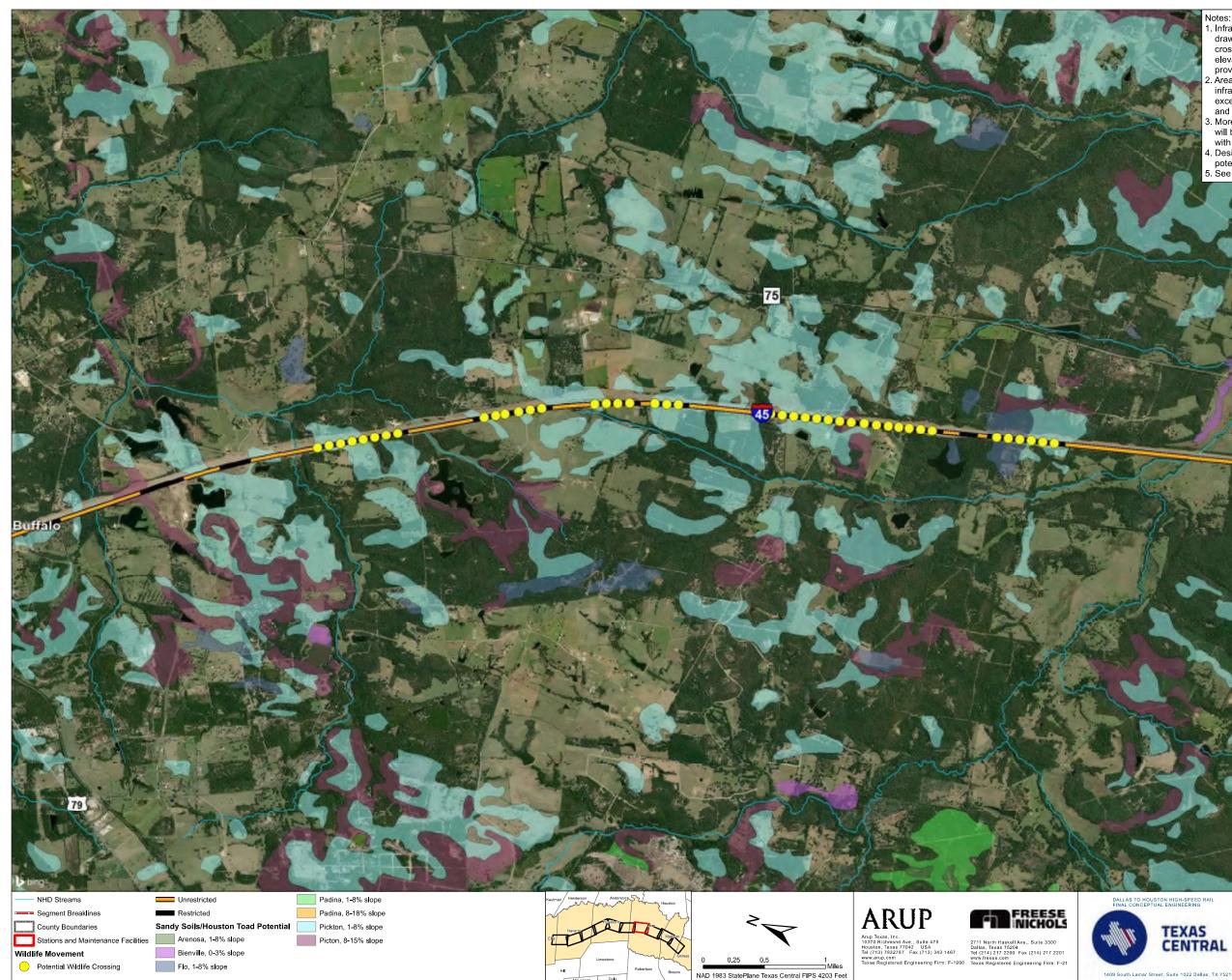
Fals

- Notes:
   Infrastructure configuration shown represents Conceptual Engineering drawings in FCE Report. Approximate limits shown for purposes of wildlife crossing considerations. More detail on infrastructure configurations, profile elevations, culvert locations, roadway crossings and other considerations provided on engineering drawings.
   Areas shown as Restricted illustrates general limits where infrastructure configuration would restrict crossing of HSR ROW by wildlife, except for small animals identified in FCE Report at culvert locations and designated Wildlife Crossing locations.
   More detailed analysis of specific Wildlife Crossing locations and provisions will be developed based upon results of environmental analysis and coordination with relevant agencies, regulatory bodies, and project stakeholders.
   Designated Urban Regions do not require Wildlife Crossings due to the low potential for wildlife in the area.

- potential for wildlife in the area. See FCE Report, Chapter 16 for more information

IH Segment THSR Potential Wildlife Crossings Sheet 11 of 15

File Name 45_WildlifeCrossings.mxd		Dat	Date 02/25/20		
Status FINAL	Dra		Drawn MF		
Job No 234180-00	Drawing WLC-IH-04006			Rev P1	



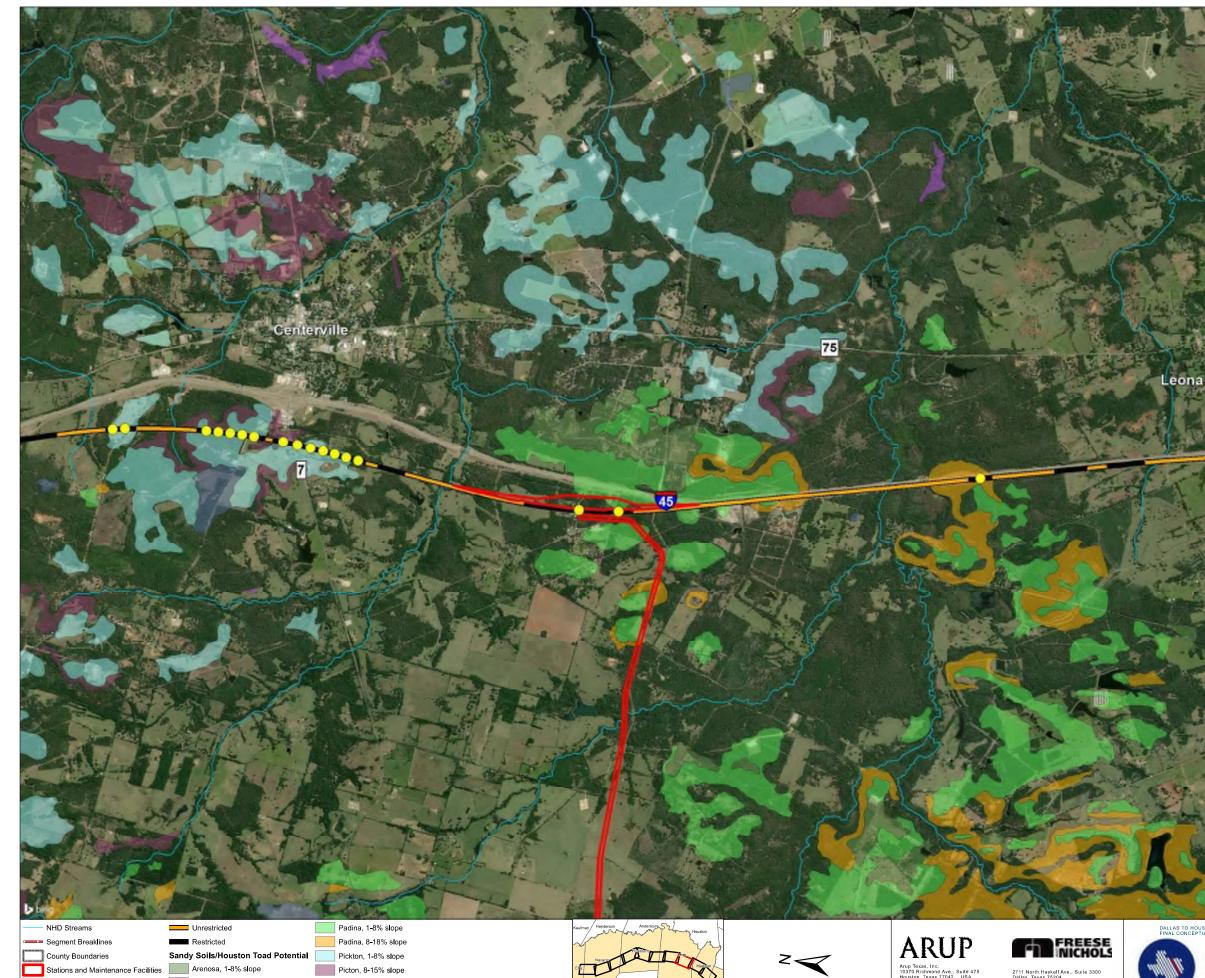
Imagery Source: Bing Aerial Imagery

- Notes:
   Infrastructure configuration shown represents Conceptual Engineering drawings in FCE Report. Approximate limits shown for purposes of wildlife crossing considerations. More detail on infrastructure configurations, profile elevations, culvert locations, roadway crossings and other considerations provided on engineering drawings.
   Areas shown as Restricted illustrates general limits where infrastructure configuration would restrict crossing of HSR ROW by wildlife, except for small animals identified in FCE Report at culvert locations and designated Wildlife Crossing locations.
   More detailed analysis of specific Wildlife Crossing locations and provisions will be developed based upon results of environmental analysis and coordination with relevant agencies, regulatory bodies, and project stakeholders.
   Designated Urban Regions do not require Wildlife Crossings due to the low

- Designated Urban Regions do not require Wildlife Crossings due to the low potential for wildlife in the area. See FCE Report, Chapter 16 for more information.

IH Segment THSR Potential Wildlife Crossings Sheet 12 of 15

File Name 45_WildlifeCrossings.mxd		Date 02/25/2019		5/2019	
Status FINAL			Drawn MF		
Job No 234180-00	Drawing WLC-IH-04007		1	Rev P1	



Picton, 8-15% slope

Bienville, 0-3% slope

Flo, 1-8% slope

Wildlife Movement

Potential Wildlife Crossing

Fals





Notes:

- Notes:
   Infrastructure configuration shown represents Conceptual Engineering drawings in FCE Report. Approximate limits shown for purposes of wildlife crossing considerations. More detail on infrastructure configurations, profile elevations, culvert locations, roadway crossings and other considerations provided on engineering drawings.
   Areas shown as Restricted illustrates general limits where infrastructure configuration would restrict crossing of HSR ROW by wildlife, except for small animals identified in FCE Report at culvert locations and designated Wildlife Crossing locations.
   More detailed analysis of specific Wildlife Crossing locations and provisions will be developed based upon results of environmental analysis and coordination with relevant agencies, regulatory bodies, and project stakeholders.
   Designated Urban Regions do not require Wildlife Crossings due to the low

- Designated Urban Regions do not require Wildlife Crossings due to the low potential for wildlife in the area. See FCE Report, Chapter 16 for more information.

DALLAS TO HOUSTON HIGH-SPEED RAIL FINAL CONCEPTUAL ENGINEERING



IH Segment THSR Potential Wildlife Crossings Sheet 13 of 15

File Name 45_WildlifeCr	rossings.mxd	Dat	-	5/2019	
Status FINAL			Drawn MF		
Job No 234180-00	Drawing WLC-IH-04008			Rev P1	

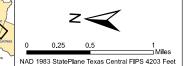
45



NHD Streams

- Segment Breaklines
- **County Boundaries**
- Stations and Maintenance Facilities Restricted
- Potential Wildlife Crossing Unrestricted

Fals







Imagery Source: Bing Aerial Imagery

Notes:

- Notes:
   Infrastructure configuration shown represents Conceptual Engineering drawings in FCE Report. Approximate limits shown for purposes of wildlife crossing considerations. More detail on infrastructure configurations, profile elevations, culvert locations, roadway crossings and other considerations provided on engineering drawings.
   Areas shown as Restricted illustrates general limits where infrastructure configuration would restrict crossing of HSR ROW by wildlife, except for small animals identified in FCE Report at culvert locations and designated Wildlife Crossing locations.
   More detailed analysis of specific Wildlife Crossing locations and provisions will be developed based upon results of environmental analysis and coordination with relevant agencies, regulatory bodies, and project stakeholders.
   Designated Urban Regions do not require Wildlife Crossings due to the low potential for wildlife in the area.
   See FCE Report, Chapter 16 for more information.

DALLAS TO HOUSTON HIGH-SPEED RAIL FINAL CONCEPTUAL ENGINEERING



IH Segment THSR Potential Wildlife Crossings Sheet 14 of 15

File Name 45_WildlifeCrossings.mxd		Date 02/25/20		5/2019	
Status FINAL		Drawn MH			
Job No 234180-00	Drawing WLC-IH-04009			Rev P1	

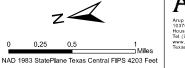


Unrestricted

**County Boundaries** 

Stations and Maintenance Facilities Restricted

Fals







Notes:

- Notes:
   Infrastructure configuration shown represents Conceptual Engineering drawings in FCE Report. Approximate limits shown for purposes of wildlife crossing considerations. More detail on infrastructure configurations, profile elevations, culvert locations, roadway crossings and other considerations provided on engineering drawings.
   Areas shown as Restricted illustrates general limits where infrastructure configuration would restrict crossing of HSR ROW by wildlife, except for small animals identified in FCE Report at culvert locations and designated Wildlife Crossing locations.
   More detailed analysis of specific Wildlife Crossing locations and provisions will be developed based upon results of environmental analysis and coordination with relevant agencies, regulatory bodies, and project stakeholders.
   Designated Urban Regions do not require Wildlife Crossings due to the low

- Designated Urban Regions do not require Wildlife Crossings due to the low potential for wildlife in the area. 5. See FCE Report, Chapter 16 for more information.

Limit of I45 Segment For Continuation, See Houston Segment

DALLAS TO HOUSTON HIGH-SPEED RAIL FINAL CONCEPTUAL ENGINEERING



IH Segment THŠR Potential Wildlife Crossings Sheet 15 of 15

File Name 45_WildlifeCrossings.mxd		Date 02/25/201		5/2019	
Status FINAL			Drawn I MK		
Job No 234180-00	Drawing WLC-IH-04010			Rev P1	