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 13 of 14







DALLAS TO HOUSTON HIGH-SPEED RAIL

PASSENGER SERVICE FROM HOUSTON TO DALLAS

FINAL CONCEPTUAL ENGINEERING PLANS AND DETAILS

PROJECT DEFINITION FOR FINAL ENVIRONMENTAL IMPACT STATEMENT VOLUME 5 - WILDLIFE CROSSING SHEETS

JULY 1, 2019





Arup Texas, Inc. 10370 Richmond Ave., Sulte 475 Houston, Texas 77042 USA Tel (713) 783 2787 Fax (713) 343 146 www.arup.com



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

		SEGMENT NAMES	SEGMENT ABBREVIATION
ALTERNATIVE			
Α	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
С	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

NOTES:

1. REFER TO FCE REPORT FOR SEGMENT NAMES AND ALIGNMENT ALTERNATIVES.

| DESIGNED BY | D. THOMPSON | DRAWN BY | D. THOMPSON | DRAWN BY | D. THOMPSON | D. THOMPSON | CHECKED BY | R. BURNS | N. CHARGE | C. TAYLOR | DATE | BY | CHK | APP | DESCRIPTION | DATE | DATE

ARUP
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

FREESE NICHOLS

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

DALLAS TO HOUSTON HIGH-SPEED RAIL FINAL CONCEPTUAL ENGINEERING

TEXAS
CENTRAL

1409 South Lamar Street, Sulte 1022, Dallas.Texas 75215

GENERAL LOCATION PLAN

SCALE IN FEET

40000

40000

\\N-YPWICS01\u00edCS Temp\44199\3121_87\234180-AFN-GEN-DWG-00-00002-V002.dgn

80000

CVL-HN-01162 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 1976+00 TO HN1 2032+00 CVL-HN-01162-A HOUSTON SEGMENT - CIVIL - PLAN CVL-HN-01163 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 2032+00 TO HN1 2088+00 CVL-HN-01164 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 2088+00 TO HN1 2144+00 CVL-HN-01165 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 2144+00 TO HN1 2200+00 CVL-HN-01166 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 2200+00 TO HN1 2256+00

CVL-HN-01168 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 2312+00 TO HN1 2368+00 CVL-HN-01169 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 2368+00 TO HN2 30+00 CVL-HN-01170 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 30+00 TO HN2 86+00 CVL-HN-01171 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 86+00 TO HN2 142+00 CVL-HN-01172 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 142+00 TO HN2 198+00 CVL-HN-01173 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 198+00 TO HN2 254+00 CVL-HN-01174 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 254+00 TO HN2 310+00

CVL-HN-01167 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 2256+00 TO HN1 2312+00

CVL-HN-01175 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 310+00 TO HN2 366+00 CVL-HN-01175-A HOUSTON SEGMENT - CIVIL - PLAN CVL-HN-01176 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 366+00 TO HN2 422+00 CVL-HN-01177 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 422+00 TO HN2 478+00 CVL-HN-01177-A HOUSTON SEGMENT - CIVIL - PLAN CVL-HN-01178 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 478+00 TO HN2 534+00

CVL-HN-01179 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 534+00 TO HN2 590+00 CVL-HN-01180 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 590+00 TO HN2 646+00 CVL-HN-01181 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 646+00 TO HN2 702+00 CVL-HN-01182 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 702+00 TO HN2 758+00 CVL-HN-01183 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 758+00 TO HN2 814+00

CVL-HN-01184 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 814+00 TO HN2 870+00 RDY-HN-01184A HOUSTON SEGMENT - CIVIL HIGHWAY - PLAN - FM 1774 CVL-HN-01185 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 870+00 TO HN2 926+00 CVL-HN-01186 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 926+00 TO HN2 982+00 CVL-HN-01187 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 982+00 TO HN2 1038+00

CVL-HN-01188 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 1038+00 TO HN2 1094+00 RDY-HN-01188A HOUSTON SEGMENT - CIVIL HIGHWAY - PLAN - FM 149 CVL-HN-01189 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 1094+00 TO HN2 1150+00 CVL-HN-01190 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 1150+00 TO HN2 1206+00 CVL-HN-01191 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 1206+00 TO HN2 1262+00

CVL-HN-01192 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 1262+00 TO HN2 1318+00 CVL-HN-01192-B HOUSTON SEGMENT - CIVIL - PLAN CVL-HN-01193 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 1318+00 TO HN2 1374+00

RDY-HN-01193A HOUSTON SEGMENT - CIVIL HIGHWAY - PLAN - CR 226 CVL-HN-01194 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 1374+00 TO HN2 1430+00 CVL-HN-01195 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 1430+00 TO HN2 1486+00 CVL-HN-01196 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 1486+00 TO HN2 1542+00

CVL-HN-01197 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 1542+00 TO HN2 1598+00 RDY-HN-01197A HOUSTON SEGMENT - CIVIL HIGHWAY - PLAN - HN2 1558+00 TO HN2 1614+00 CVL-HN-01198 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 1598+00 TO HN2 1654+00 CVL-HN-01199 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 1654+00 TO HN2 1710+00

CVL-HN-01200 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 1710+00 TO HN2 1766+00 CVL-HN-01201 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 1766+00 TO HN2 1822+00 CVL-HN-01202 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 1822+00 TO HN2 1878+00 CVL-HN-01203 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 1878+00 TO HN2 1934+00

CVL-HN-01203-A HOUSTON SEGMENT - CIVIL - PLAN CVL-HN-01204 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 1934+00 TO HN2 1990+00 CVL-HN-01205 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 1990+00 TO HN2 2046+00 CVL-HN-01206 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN2 2046+00 TO HN2 2073+80

2A-2 WEST OF TEAGUE SEGMENT CVL-WT-01250 WEST OF TEAGUE SEGMENT - CIVIL - KEY MAP - SHEET 1 OF 4 - WT 10+00 TO WT 1130+00

CVL-WT-01251 WEST OF TEAGUE SEGMENT - CIVIL - KEY MAP - SHEET 2 OF 4 - WT 1130+00 TO WT 2250+00 CVL-WT-01252 WEST OF TEAGUE SEGMENT - CIVIL - KEY MAP - SHEET 3 OF 4 - WT 2250+00 TO WT 3370+00

Arup Texas, Inc. 10370 Rlchmond Ave., Sulte 475 Houston, Texas 77042 USA Tel (713) 783 2787 Fax (713) 343 1467

VOLUME 2A - RAILWAY ALIGNMENT PLAN AND PROFILE SHEETS

CVL-HN-01101 | HOUSTON SEGMENT - CIVIL - KEY MAP - SHEET 1 OF 4 - HT1 10+00 TO HN1 1024+00

CVL-HN-01102 | HOUSTON SEGMENT - CIVIL - KEY MAP - SHEET 2 OF 4 - HN1 1024+00 TO HN1 2088+00

CVL-HN-01103 HOUSTON SEGMENT - CIVIL - KEY MAP - SHEET 3 OF 4 - HN1 2088+00 TO HN2 814+00 CVL-HN-01104 HOUSTON SEGMENT - CIVIL - KEY MAP - SHEET 4 OF 4 - HN2 814+00 TO HN2 2073+80

CVL-HN-01105 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HT1 10+00 TO HT1 38+00

CVL-HN-01106 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HT1 38+00 TO HT1 60+00 CVL-HN-01107 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HT1 60+00 TO HT1 88+00

CVL-HN-01108 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HT1 88+00 TO HN1 16+00

CVL-HN-01107-2 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HT2 10+00 TO HT2 34+00

CVL-HN-01108-2 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HT2 34+00 TO HN1 16+00

CVL-HN-01107-3 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HT3 10+00 TO HT3 33+00 CVL-HN-01108-3 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HT3 33+00 TO HN1 16+00

CVL-HN-01109 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 16+00 TO HN1 44+00

CVL-HN-01110 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 44+00 TO HN1 72+00 CVL-HN-01111 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 72+00 TO HN1 100+00

CVL-HN-01112 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 100+00 TO HN1 128+00

CVL-HN-01113 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 128+00 TO HN1 156+00

CVL-HN-01114 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 156+00 TO HN1 184+00 CVL-HN-01115 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 184+00 TO HN1 212+00

CVL-HN-01116 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 212+00 TO HN1 240+00

CVL-HN-01117 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 240+00 TO HN1 268+00

CVL-HN-01118 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 268+00 TO HN1 296+00

CVL-HN-01119 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 296+00 TO HN1 324+00

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-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-01129 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 576+00 TO HN1 604+00

CVL-HN-01130 HOUSTON 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

CVL-HN-01132 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 660+00 TO HN1 688+00

CVL-HN-01133 HOUSTON SEGMENT - CIVIL - PLAN AND PROFILE - HN1 688+00 TO HN1 716+00

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-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-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-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-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-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-B HOUSTON SEGMENT - CIVIL - PLAN - HN1 1528+00 - HN1 1584+00

2A-1 HOUSTON SEGMENT

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

CVL-HN-01124-A HOUSTON SEGMENT - CIVIL - PLAN

CVL-HN-01131-A HOUSTON SEGMENT - CIVIL - PLAN

VL-HN-01131-B HOUSTON SEGMENT - CIVIL - PLAN

CVL-HN-01132-A HOUSTON SEGMENT - CIVIL - PLAN

CVL-HN-01136-A HOUSTON SEGMENT - CIVIL - PLAN

CVL-HN-01143-A HOUSTON SEGMENT - CIVIL - PLAN

CVL-HN-01147-A HOUSTON SEGMENT - CIVIL - PLAN

CVL-HN-01147-B HOUSTON SEGMENT - CIVIL - PLAN

CVL-HN-01149-A HOUSTON SEGMENT - CIVIL - PLAN

CVL-HN-01152-A HOUSTON SEGMENT - CIVIL - PLAN

CVL-HN-01154-A HOUSTON SEGMENT - CIVIL - PLAN

D. THOMPSON

D. THOMPSON

R. BURNS

C TAYLOR

02/25/2019

DESCRIPTION

DRAWING DESCRIPTIONS

DALLAS TO HOUSTON HIGH-SPEED RAIL FINAL CONCEPTUAL ENGINEERING

1409 South Lamar Street, Sulte 1022, Dallas.Texas 75215

GENERAL INDEX SHEET 1 OF 5

NO SCALE FINAL 234180 GEN-00-00003 01

OLUME 1	A - GENERAL SHEETS & TYPICAL SECTIONS
DRAWING NO	DRAWING DESCRIPTIONS
	1A-1 GENERAL
	COVER SHEET
GEN-00-00002	GENERAL - LOCATION PLAN
GEN-00-00003	GENERAL - INDEX SHEET 1 OF 5
GEN-00-00004	GENERAL - INDEX SHEET 2 OF 5
GEN-00-00005	GENERAL - INDEX SHEET 3 OF 5
GEN-00-00006	GENERAL - INDEX SHEET 4 OF 5
GEN-00-00007	GENERAL - INDEX SHEET 5 OF 5
GEN-00-00008	GENERAL - NOTES
GEN-00-00009	GENERAL - ABBREVIATIONS AND LEGEND
GEN-00-00010	GENERAL - RAIL ANNOTATION TO CLARIFY DESIGN INTENT
0.4.00.0004	1A-2 RAILWAY TYPICAL SECTIONS
CVL-00-03001	
CVL-00-03002	
CVL-00-03003	
CVL-00-03004 CVL-00-03005	GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 4 OF 13
CVL-00-03006	GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 6 OF 13 GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 7 OF 13
	GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 7 OF 13 GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 8 OF 13
	GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 8 OF 13 GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 9 OF 13
CVI -00-03009	GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 9 OF 13 GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 10 OF 13
CVI-00-03011	GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 10 OF 13
CVL-00-03012	
CVL-00-03013	
	1A-3 ROADWAY AND GRADE SEPARATION TYPICAL SECTIONS
CVL-00-03030	
CVL-00-03031	GENERAL - CIVIL HIGHWAY - TYPICAL SECTIONS SHEET 2 OF 4
CVL-00-03032	
CVL-00-03033	
CVL-00-03034	GENERAL - CIVIL HIGHWAY - ROAD OVER RAIL GRADE SEPARATION
	1A-4 CIVIL STRUCTURES TYPICAL DETAILS
CST-00-03003	GENERAL - CIVIL STRUCTURES - STRUCTURAL VIADUCT-TYPICAL DETAIL
CST-00-03007	GENERAL - CIVIL STRUCTURES - STRADDLE BENT- SHEET 1 OF 2
CST-00-03008	GENERAL - CIVIL STRUCTURES - STRADDLE BENT- SHEET 2 OF 2
CST-00-03017	
CST-00-03018	
	GENERAL - CIVIL STRUCTURES - CULVERT AND ANIMAL CROSSING- SHEET 1 OF 2
CST-00-03021	GENERAL - CIVIL STRUCTURES - CULVERT AND ANIMAL CROSSING- SHEET 2 OF 2
CST-00-03022	
CST-00-03023	
	GENERAL - CIVIL STRUCTURES - WILDLIFE CROSSINGS FENCE DETAILS
CST-00-03024	
CST-00-03025	GENERAL - CIVIL STRUCTURES - HONEY SPRING CEMETERY - NETWORK TIED ARCH
	GENERAL - CIVIL STRUCTURES - NETWORK TIED ARCH - ELEVATION
CST-00-03027 CST-00-03028	GENERAL - CIVIL STRUCTURES - NETWORK TIED ARCH - SECTION
C31-00-03028	
CLIT-00 01000	1A-5 CIVIL UTILITIES TYPICAL DETAILS GENERAL - CIVIL UTILITIES - TYPICAL CROSSING DETAIL - SHEET 1 OF 1
CO 1-00-01000	1A-6 GENERAL - ALIGNMENT CURVE DATA TABLES
GEN-00-04001	GENERAL - ALIGNMENT CORVE DATA TABLES GENERAL - ALIGNMENT AND CURVE DATA SHEET 1 OF 2
	GENERAL - ALIGNMENT AND CURVE DATA SHEET 1 OF 2 GENERAL - ALIGNMENT AND CURVE DATA SHEET 2 OF 2
	B - GENERAL SHEETS & TYPICAL SECTIONS
OLUME II	O - GENERAL SHEETS & TTPICAL SECTIONS
DRAWING NO	DRAWING DESCRIPTIONS
GEN-00-0001	GENERAL - ROADWAY ANNOTATION TO CLARIFY DESIGN INTENT
	1B-1 RAILWAY TYPICAL SECTIONS
CVL-00-03001	GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 1 OF 11
CVL-00-03002	3 GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 2 OF 11
CVL-00-03003	GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 3 OF 11
	GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 4 OF 11
CVL-00-03005	
CVII 00 0200C	

VOLUME ID	GENERAL SHEETS & TIFICAL SECTIONS
DRAWING NO.	DRAWING DESCRIPTIONS
GEN-00-00011	GENERAL - ROADWAY ANNOTATION TO CLARIFY DESIGN INTENT
	1B-1 RAILWAY TYPICAL SECTIONS
CVL-00-03001B	GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 1 OF 11
CVL-00-03002B	GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 2 OF 11
CVL-00-03003B	GENERAL - CIVIL RAIL - TYPICAL SECTIONS - SHEET 3 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
	1B-2 ROADWAY AND GRADE SEPARATION TYPICAL SECTIONS
CVL-00-03033B	GENERAL - CIVIL HIGHWAY - TYPICAL SECTIONS - SHEET 1 OF 2
CVL-00-03034B	GENERAL - CIVIL HIGHWAY - TYPICAL SECTIONS - SHEET 2 OF 2

www.arup.com Texas Registered Engineering Firm: F-1990

VOLUME 2A - RAILWAY ALIGNMENT PLAN AND PROFILE SHEETS

DRAWING NO.	DRAWING DESCRIPTIONS
	2A-2 WEST OF TEAGUE SEGMENT
CVL-WT-01253	WEST OF TEAGUE SEGMENT - CIVIL - KEY MAP - SHEET 4 OF 4 - WT 3370+00 TO WT 4118+87
CVL-WT-01254	WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 10+00 TO WT 66+00
CVL-WT-01255	WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 66+00 TO WT 122+00
CVL-WT-01256	WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 122+00 TO WT 178+00
CVL-WT-01257	WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 178+00 TO WT 234+00
CVI M/T 013E9	WEST OF TRACLIF SECRETARY SIMIL BLANDAND PROFILE WET 224 OF TO MET 200 OF

CVL-WT-01258 | WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 234+00 TO WT 290+00 CVL-WT-01259 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 290+00 TO WT 346+00 CVL-WT-01260 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 346+00 TO WT 402+00 CVL-WT-01261 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 402+00 TO WT 458+00

CVL-WT-01261-A WEST OF TEAGUE SEGMENT - CIVIL - PLAN CVL-WT-01262 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 458+00 TO WT 514+00 CVL-WT-01263 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 514+00 TO WT 570+00 CVL-WT-01264 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 570+00 TO WT 626+00 CVL-WT-01265 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 626+00 TO WT 682+00

- CVL-WT-01266 WEST OF TEAGUE SEGMENT CIVIL PLAN AND PROFILE WT 682+00 TO WT 738+00 CVL-WT-01267 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 738+00 TO WT 794+00 CVL-WT-01267-A WEST OF TEAGUE SEGMENT - CIVIL - PLAN CVL-WT-01268 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 794+00 TO WT 850+00
- CVL-WT-01269 WEST OF TEAGUE SEGMENT CIVIL PLAN AND PROFILE WT 850+00 TO WT 906+00 CVL-WT-01270 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 906+00 TO WT 962+00 CVL-WT-01270-A WEST OF TEAGUE SEGMENT - CIVIL - PLAN
- CVL-WT-01271 WEST OF TEAGUE SEGMENT CIVIL PLAN AND PROFILE WT 962+00 TO WT 1018+00 CVL-WT-01271-A WEST OF TEAGUE SEGMENT - CIVIL - PLAN
 CVL-WT-01272 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1018+00 TO WT 1074+00
- CVL-WT-01273 WEST OF TEAGUE SEGMENT CIVIL PLAN AND PROFILE WT 1074+00 TO WT 1130+00 CVL-WT-01274 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1130+00 TO WT 1186+00 CVL-WT-01275 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1186+00 TO WT 1242+00 CVL-WT-01276 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1242+00 TO WT 1298+00 CVL-WT-01277 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1298+00 TO WT 1354+00
- CVL-WT-01278 WEST OF TEAGUE SEGMENT CIVIL PLAN AND PROFILE WT 1354+00 TO WT 1410+00 CVL-WT-01279 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1410+00 TO WT 1466+00 CVL-WT-01280 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1466+00 TO WT 1522+00 CVL-WT-01281 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1522+00 TO WT 1578+00 CVL-WT-01282 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1578+00 TO WT 1634+00
- CVL-WT-01283 WEST OF TEAGUE SEGMENT CIVIL PLAN AND PROFILE WT 1634+00 TO WT 1690+00 CVL-WT-01284 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1690+00 TO WT 1746+00 CVL-WT-01284-A WEST OF TEAGUE SEGMENT - CIVIL - PLAN CVL-WT-01285 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1746+00 TO WT 1802+00
- CVL-WT-01286 WEST OF TEAGUE SEGMENT CIVIL PLAN AND PROFILE WT 1802+00 TO WT 1858+00 CVL-WT-01287 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1858+00 TO WT 1914+00 CVL-WT-01288 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1914+00 TO WT 1970+00 CVL-WT-01289 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 1970+00 TO WT 2026+00
- CVL-WT-01290 WEST OF TEAGUE SEGMENT CIVIL PLAN AND PROFILE WT 2026+00 TO WT 2082+00 CVL-WT-01291 |WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2082+00 TO WT 2138+00 CVL-WT-01292 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2138+00 TO WT 2194+00 CVL-WT-01293 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2194+00 TO WT 2250+00
- CVL-WT-01294 | WEST OF TEAGUE SEGMENT CIVIL PLAN AND PROFILE WT 2250+00 TO WT 2306+00 RDY-WT-01294A WEST OF TEAGUE SEGMENT - CIVIL HIGHWAY - PLAN - FM 1512 CVL-WT-01295 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2306+00 TO WT 2362+00
- CVL-WT-01295-A WEST OF TEAGUE SEGMENT CIVIL PLAN CVL-WT-01296 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2362+00 TO WT 2418+00
- CVL-WT-01297 WEST OF TEAGUE SEGMENT CIVIL PLAN AND PROFILE WT 2418+00 TO WT 2474+00 CVL-WT-01297-A WEST OF TEAGUE SEGMENT - CIVIL - PLAN CVL-WT-01298 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2474+00 TO WT 2530+00 CVL-WT-01299 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2530+00 TO WT 2586+00 CVL-WT-01300 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2586+00 TO WT 2642+00
- CVL-WT-01301 WEST OF TEAGUE SEGMENT CIVIL PLAN AND PROFILE WT 2642+00 TO WT 2698+00 CVL-WT-01302 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2698+00 TO WT 2754+00 CVL-WT-01302-A WEST OF TEAGUE SEGMENT - CIVIL - PLAN CVL-WT-01303 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2754+00 TO WT 2810+00
- CVL-WT-01304 WEST OF TEAGUE SEGMENT CIVIL PLAN AND PROFILE WT 2810+00 TO WT 2866+00 CVL-WT-01305 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2866+00 TO WT 2922+00 CVL-WT-01306 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2922+00 TO WT 2978+00 CVL-WT-01307 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 2978+00 TO WT 3034+00
- CVL-WT-01308 WEST OF TEAGUE SEGMENT CIVIL PLAN AND PROFILE WT 3034+00 TO WT 3090+00 CVL-WT-01309 | WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3090+00 TO WT 3146+00 CVL-WT-01310 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3146+00 TO WT 3202+00
- CVL-WT-01311 WEST OF TEAGUE SEGMENT CIVIL PLAN AND PROFILE WT 3202+00 TO WT 3258+00 CVL-WT-01312 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3258+00 TO WT 3314+00 CVL-WT-01313 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3314+00 TO WT 3370+00 CVL-WT-01314 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3370+00 TO WT 3426+00
 - D. THOMPSON D. THOMPSON R. BURNS C. TAYLOR

DESCRIPTION

VOLUME 2A - RAILWAY ALIGNMENT PLAN AND PROFILE SHEETS

RDY-WT-01322A WEST OF TEAGUE SEGMENT - CIVIL HIGHWAY - PLAN - FM 1566

RDY-WT-01325A | WEST OF TEAGUE SEGMENT - CIVIL HIGHWAY - PLAN - CR 995

RDY-NW-01509A NAVARRO WEST SEGMENT - CIVIL HIGHWAY - PLAN - CR 0040

RDY-NW-01512A NAVARRO WEST SEGMENT - CIVIL HIGHWAY - PLAN - FM 709

RDY-NW-01527A NAVARRO WEST SEGMENT - CIVIL HIGHWAY - PLAN - CR 1300

RDY-EW-01702A ELLIS WEST SEGMENT - CIVIL HIGHWAY - PLAN - FM 984

RDY-EW-01706A ELLIS WEST SEGMENT - CIVIL HIGHWAY - PLAN - BACAK ROAD

CVL-WT-01315 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3426+00 TO WT 3482+00

CVL-WT-01316 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3482+00 TO WT 3538+00 CVL-WT-01317 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3538+00 TO WT 3594+00 CVL-WT-01318 | WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3594+00 TO WT 3650+00

CVL-WT-01319 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3650+00 TO WT 3706+00

CVL-WT-01320 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3706+00 TO WT 3762+00

CVL-WT-01321 | WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3762+00 TO WT 3818+00

CVL-WT-01322 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3818+00 TO WT 3874+00

CVL-WT-01323 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3874+00 TO WT 3930+00

CVL-WT-01324 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3930+00 TO WT 3986+00

CVL-WT-01325 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 3986+00 TO WT 4042+00

CVL-WT-01326 WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 4042+00 TO WT 4098+00

CVL-WT-01327 | WEST OF TEAGUE SEGMENT - CIVIL - PLAN AND PROFILE - WT 4098+00 TO WT 4118+87

CVL-NW-01502 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 10+00 TO NW 66+00

CVL-NW-01503 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 66+00 TO NW 122+00

CVL-NW-01504 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 122+00 TO NW 178+00 CVL-NW-01505 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 178+00 TO NW 234+00

CVL-NW-01506 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 234+00 TO NW 290+00 CVL-NW-01507 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 290+00 TO NW 346+00

CVL-NW-01508 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 346+00 TO NW 402+00

CVL-NW-01509 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 402+00 TO NW 458+00

CVL-NW-01510 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 458+00 TO NW 514+00 CVL-NW-01511 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 514+00 TO NW 570+00

CVL-NW-01512 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 570+00 TO NW 626+00

CVL-NW-01513 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 626+00 TO NW 682+00 CVL-NW-01514 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 682+00 TO NW 738+00

CVL-NW-01515 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 738+00 TO NW 794+00

CVL-NW-01516 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 794+00 TO NW 850+00

CVL-NW-01517 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 850+00 TO NW 906+00

CVL-NW-01518 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 906+00 TO NW 962+00

CVL-NW-01519 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 962+00 TO NW 1018+00

CVL-NW-01520 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 1018+00 TO NW 1074+00

CVL-NW-01521 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 1074+00 TO NW 1130+00

CVL-NW-01522 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 1130+00 TO NW 1186+00

CVL-NW-01523 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 1186+00 TO NW 1242+00

CVL-NW-01524 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 1242+00 TO NW 1298+00

CVL-NW-01525 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 1298+00 TO NW 1354+00

CVL-NW-01526 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 1354+00 TO NW 1410+00

CVL-NW-01527 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 1410+00 TO NW 1466+00

CVL-NW-01528 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 1466+00 TO NW 1522+00

CVL-NW-01529 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 1522+00 TO NW 1578+00

CVL-NW-01530 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 1578+00 TO NW 1634+00

CVL-NW-01531 NAVARRO WEST SEGMENT - CIVIL - PLAN AND PROFILE - NW 1634+00 TO NW 1638+12

CVL-EW-01700 | ELLIS WEST SEGMENT - CIVIL - KEY MAP - SHEET 1 OF 2 - EW 10+00 TO EW 1130+00

CVL-EW-01702 | ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 10+00 TO EW 66+00

CVL-EW-01703 ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 66+00 TO EW 122+00

CVL-EW-01704 | ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 122+00 TO EW 178+00

CVL-EW-01705 | ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 178+00 TO EW 234+00

CVL-EW-01706 ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 234+00 TO EW 290+00

CVL-EW-01707 ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 290+00 TO EW 346+00

CVL-EW-01708 | ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 346+00 TO EW 402+00

CVL-EW-01701 | ELLIS WEST SEGMENT - CIVIL - KEY MAP - SHEET 2 OF 2 - EW 1130+00 TO EW 1246+26

CVL-NW-01500 NAVARRO WEST SEGMENT - CIVIL - KEY MAP - SHEET 1 OF 2 - NW 10+00 TO NW 1130+00

CVL-NW-01501 NAVARRO WEST SEGMENT - CIVIL - KEY MAP - SHEET 2 OF 2 - NW 1130+00 TO NW 1638+12

2A-2 WEST OF TEAGUE SEGMENT

CVL-WT-01314-A WEST OF TEAGUE SEGMENT - CIVIL - PLAN

CVL-WT-01315-A WEST OF TEAGUE SEGMENT - CIVIL - PLAN

CVL-WT-01326-A WEST OF TEAGUE SEGMENT - CIVIL - PLAN

CVL-NW-01503-A NAVARRO WEST SEGMENT - CIVIL - PLAN

CVL-NW-01507-A NAVARRO WEST SEGMENT - CIVIL - PLAN

CVL-NW-01511-A NAVARRO WEST SEGMENT - CIVIL - PLAN

CVL-NW-01517-A NAVARRO WEST SEGMENT - CIVIL - PLAN

CVL-NW-01523-A NAVARRO WEST SEGMENT - CIVIL - PLAN

2A-4 ELLIS WEST SEGMENT

02/25/2019

2A-3 NAVARRO WEST SEGMENT

DRAWING DESCRIPTIONS

Arup Texas, Inc. 10370 RIchmond Ave., Sulte 475 Houston, Texas 77042 USA Tel (713) 783 2787 Fax (713) 343 1467



www.freese.com
Texas Registered Engineering Firm: F-2144

1409 South Lamar Street, Sulte 1022, Dallas.Texas 75215

DALLAS TO HOUSTON HIGH-SPEED RAIL FINAL CONCEPTUAL ENGINEERING

GENERAL INDEX SHEET 2 OF 5

Drawing Title

NO SCALE FINAL 234180 GEN-00-00004 01

	ELLIS WEST SEGMENT - CIVIL - PLAN
	ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 514+00 TO EW 570+00
CVL-EW-01712	ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 570+00 TO EW 626+00
CVL-EW-01713	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
CVL-EW-01714	ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 682+00 TO EW 738+00
CVL-EW-01715	ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 738+00 TO EW 794+00
CVL-EW-01716	ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 794+00 TO EW 850+00
CVL-EW-01717	ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 850+00 TO EW 906+00
CVL-EW-01718	ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 906+00 TO EW 962+00
CVL-EW-01719	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
CVL-EW-01721	ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 1074+00 TO EW 1130+00
CVL-EW-01721-A	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 ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 1186+00 TO EW 1242+00
CVL-EW-01723	ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 1180+00 TO EW 1242+00
CVL-LVV-01724	2A-5 DALLAS SEGMENT
CVL-DS-01900	DALLAS SEGMENT - CIVIL - KEY MAP - DS 10+00 TO DT 216+59
CVL-DS-01901	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 10+00 TO DS 66+00
CVL-DS-01902	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 66+00 TO DS 122+00
CVL-DS-01902-A	
CVL-DS-01903	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 122+00 TO DS 178+00
RDY-DS-01903A	DALLAS SEGMENT - CIVIL HIGHWAY - PLAN - HASH ROAD
CVL-DS-01904	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 178+00 TO DS 234+00
CVL-DS-01905	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 234+00 TO DS 290+00
RDY-DS-01905A	DALLAS SEGMENT - CIVIL HIGHWAY - PLAN - DS 234+00 TO DS 290+00
CVL-DS-01906	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 290+00 TO DS 346+00
CVL-DS-01907	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 346+00 TO DS 402+00
CVL-DS-01907-A	DALLAS SEGMENT - CIVIL - PLAN
CVL-DS-01908	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 402+00 TO DS 458+00
CVL-DS-01909	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 458+00 TO DS 514+00
CVL-DS-01910	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 514+00 TO DS 542+00
CVL-DS-01911	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 542+00 TO DS 570+00
CVL-DS-01912	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 570+00 TO DS 598+00
CVL-DS-01912-A	
CVL-DS-01912-B	DALLAS SEGMENT - CIVIL - PLAN
CVL-DS-01912-C	DALLAS SEGMENT - CIVIL - PLAN
	DALLAS SEGMENT - CIVIL - PLAN
CVL-DS-01913	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 598+00 TO DS 626+00
CVL-DS-01914	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 626+00 TO DS 654+00
CVL-DS-01914-A	
CVL-DS-01914-B	
CVL-DS-01915	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 654+00 TO DS 682+00
CVL-DS-01916	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 682+00 TO DS 710+00
CVL-DS-01917	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 710+00 TO DS 738+00
CVL-DS-01918	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 738+00 TO DS 766+00
CVL-DS-01919	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DS 766+00 TO DT 33+00
	DALLAS SEGMENT - CIVIL - PLAN
CVL-DS-01919-B	DALLAS SEGMENT - CIVIL - PLAN
CVL-DS-01920 CVL-DS-01921	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DT 33+00 TO DT 61+00
CVL-DS-01921	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DT 61+00 TO DT 89+00 DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DT 89+00 TO DT 117+00
CVL-DS-01922-A	
CVL-DS-01922-A	DALLAS SEGMENT - CIVIL - PLAN DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DT 117+00 TO DT 145+00
CVL-DS-01923	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DT 117+00 TO DT 145+00 DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DT 145+00 TO DT 173+00
CVL-DS-01924-A	
	DALLAS SEGMENT - CIVIL - PLAN DALLAS SEGMENT - CIVIL - PLAN
CVL-DS-01924-B	DALLAS SEGMENT - CIVIL - PLAN DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DT 173+00 TO DT 201+00
	DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DT 173+00 TO DT 201+00 DALLAS SEGMENT - CIVIL - PLAN
CVI-DS-01323-A	DALLAS SEGMENT - CIVIL - PLAN DALLAS SEGMENT - CIVIL - PLAN
	DALLAS SEGMENT - CIVIL - PLAN DALLAS SEGMENT - CIVIL - PLAN AND PROFILE DT 201+00 TO DT 216+59
CVL-DS-01926	DALLAS SEGMENT - CIVIL - PLAN

VOLUME 2A - RAILWAY ALIGNMENT PLAN AND PROFILE SHEETS

CVL-EW-01709 ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 402+00 TO EW 458+00

CVL-EW-01710 | ELLIS WEST SEGMENT - CIVIL - PLAN AND PROFILE - EW 458+00 TO EW 514+00

2A-4 ELLIS WEST SEGMENT

CVL-EW-01708-A ELLIS WEST SEGMENT - CIVIL - PLAN

DRAWING DESCRIPTIONS

DRAWING NO.

DATE

VOLUME 2B - RAILWAY ALIGNMENT PLAN AND PROFILE SHEETS

DRAWING NO.	DRAWING DESCRIPTIONS
	2B-1 IH-45 SEGMENT
CVL-IH-01350	IH-45 SEGMENT - CIVIL - KEY MAP - SHEET 1 OF 5 - IH1 10+00 TO IH1 1130+00
CVL-IH-01351	IH-45 SEGMENT - CIVIL - KEY MAP - SHEET 2 OF 5 - IH1 1130+00 TO IH1 2250+00
CVL-IH-01352	IH-45 SEGMENT - CIVIL - KEY MAP - SHEET 3 OF 5 - IH1 2250+00 TO IH1 3370+00
CVL-IH-01353	IH-45 SEGMENT - CIVIL - KEY MAP - SHEET 4 OF 5 - IH1 3370+00 TO IH2 234+00
CVL-IH-01354	IH-45 SEGMENT - CIVIL - KEY MAP - SHEET 5 OF 5 - IH2 234+00 TO IH2 540+81
CVL-IH-01355	IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 10+00 TO IH1 66+00
CVL-IH-01356	IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 66+00 TO IH1 122+00
CVL-IH-01357	IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 122+00 TO IH1 178+00
CVL-IH-01358	IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 178+00 TO IH1 234+00
CVL-IH-01359	IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 234+00 TO IH1 290+00
CVL-IH-01360	IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 290+00 TO IH1 346+00

CVL-IH-01361 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 346+00 TO IH1 402+00 CVL-IH-01362 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 402+00 TO IH1 458+00 CVL-IH-01363 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 458+00 TO IH1 514+00 CVL-IH-01364 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 514+00 TO IH1 570+00

CVL-IH-01365 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 570+00 TO IH1 626+00 CVL-IH-01366 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 626+00 TO IH1 682+00 CVL-IH-01367 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 682+00 TO IH1 738+00 CVL-IH-01368 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 738+00 TO IH1 794+00 CVL-IH-01369 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 794+00 TO IH1 850+00 CVL-IH-01370 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 850+00 TO IH1 906+00

CVL-IH-01371 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 906+00 TO IH1 962+00 CVL-IH-01372 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 962+00 TO IH1 1018+00 CVL-IH-01373 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1018+00 TO IH1 1074+00 CVL-IH-01374 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1074+00 TO IH1 1130+00

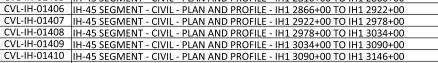
CVL-IH-01375 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1130+00 TO IH1 1186+00 CVL-IH-01376 |IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1186+00 TO IH1 1242+00 CVL-IH-01377 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1242+00 TO IH1 1298+00 CVL-IH-01378 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1298+00 TO IH1 1354+00 CVL-IH-01379 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1354+00 TO IH1 1410+00 CVL-IH-01380 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1410+00 TO IH1 1466+00

CVL-IH-01381 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1466+00 TO IH1 1522+00 CVL-IH-01382 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1522+00 TO IH1 1578+00 CVL-IH-01383 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1578+00 TO IH1 1634+00 CVL-IH-01384 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1634+00 TO IH1 1690+00 CVL-IH-01385 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1690+00 TO IH1 1746+00 CVL-IH-01386 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 1746+00 TO IH1 1802+00





CVL-IH-01401 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2586+00 TO IH1 2642+00 CVL-IH-01402 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2642+00 TO IH1 2698+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-IH-01405 IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 2810+00 TO IH1 2866+00



CVL-IH-01411 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3146+00 TO IH1 3202+00 CVL-IH-01412 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3202+00 TO IH1 3258+00 CVL-IH-01413 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3258+00 TO IH1 3314+00

CVL-IH-01414 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3314+00 TO IH1 3370+00 CVL-IH-01415 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3370+00 TO IH1 3426+00 CVL-IH-01416 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3426+00 TO IH1 3482+00 CVL-IH-01417 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3482+00 TO IH1 3538+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

DATE

D. THOMPSON D. THOMPSON R. BURNS C. TAYLOR DESCRIPTION 02/25/2019

VOLUME 2B - RAILWAY ALIGNMENT PLAN AND PROFILE SHEETS

CVL-IH-01421 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3706+00 TO IH1 3762+00 CVL-IH-01422 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3762+00 TO IH1 3818+00 CVL-IH-01423 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3818+00 TO IH1 3874+00 CVL-IH-01424 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3874+00 TO IH1 3930+00 CVL-IH-01425 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3930+00 TO IH1 3986+00 CVL-IH-01426 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 3986+00 TO IH1 4042+00 CVL-IH-01427 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 4042+00 TO IH1 4098+00 CVL-IH-01428 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 4098+00 TO IH1 4154+00 CVL-IH-01429 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 4154+00 TO IH1 4210+00 CVL-IH-01430 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 4210+00 TO IH1 4266+00 CVL-IH-01431 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 4266+00 TO IH1 4322+00

CVL-IH-01432 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH1 4322+00 TO IH1 4329+69

CVL-IH-01433 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH2 10+00 TO IH2 66+00

CVL-IH-01434 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH2 66+00 TO IH2 122+00

CVL-IH-01435 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH2 122+00 TO IH2 178+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

CVL-IH-01438 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH2 290+00 TO IH2 346+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

CVL-IH-01441 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH2 458+00 TO IH2 514+00

CVL-IH-01442 | IH-45 SEGMENT - CIVIL - PLAN AND PROFILE - IH2 514+00 TO IH2 540+81

CVL-NE-01600 NAVARRO EAST SEGMENT - CIVIL - KEY MAP - SHEET 1 OF 2 - NE 10+00 TO NE 1074+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

CVL-NE-01604 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 122+00 TO NE 178+00 CVL-NE-01605 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 178+00 TO NE 234+00

CVL-NE-01606 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 234+00 TO NE 290+00

CVL-NE-01607 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 290+00 TO NE 346+00 CVL-NE-01608 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 346+00 TO NE 402+00

CVL-NE-01609 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 402+00 TO NE 458+00

CVL-NE-01610 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 458+00 TO NE 514+00

CVL-NE-01611 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 514+00 TO NE 570+00 CVL-NE-01612 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 570+00 TO NE 626+00

CVL-NE-01613 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 626+00 TO NE 682+00

CVL-NE-01614 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 682+00 TO NE 738+00

CVL-NE-01615 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 738+00 TO NE 794+00

CVL-NE-01616 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 794+00 TO NE 850+00

CVL-NE-01617 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 850+00 TO NE 906+00

CVL-NE-01618 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 906+00 TO NE 962+00

CVL-NE-01619 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 962+00 TO NE 1018+00

CVL-NE-01620 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1018+00 TO NE 1074+00

CVL-NE-01621 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1074+00 TO NE 1130+00 CVL-NE-01622 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1130+00 TO NE 1186+00

CVL-NE-01623 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1186+00 TO NE 1242+00

CVL-NE-01624 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1242+00 TO NE 1298+00 CVL-NE-01625 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1298+00 TO NE 1354+00

CVL-NE-01626 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1354+00 TO NE 1410+00

CVL-NE-01627 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1410+00 TO NE 1466+00 CVL-NE-01628 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1466+00 TO NE 1522+00

CVL-NE-01629 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1522+00 TO NE 1578+00

CVL-NE-01630 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1578+00 TO NE 1634+00 CVL-NE-01631 NAVARRO EAST SEGMENT - CIVIL - PLAN AND PROFILE - NE 1634+00 TO NE 1652+05

CVL-EE-01800-1 ELLIS EAST SEGMENT - CIVIL - KEY MAP - SHEET 1 OF 2 - EE 9+56 TO EE 1098+00

CVL-EE-01801 | ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 9+56 TO EE 34+00

CVL-EE-01802 ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 34+00 TO 90+00

CVL-EE-01803 | ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 90+00 TO 146+00

CVL-EE-01804 | ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 146+00 TO EE 202+00

CVL-EE-01805 | ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 202+00 TO EE 258+00

CVL-EE-01806 | ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 258+00 TO EE 314+00

CVL-EE-01807 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-EE-01809 ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 426+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 538+00 TO EE 594+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

CVL-EE-01800-2 ELLIS EAST SEGMENT - CIVIL - KEY MAP - SHEET 2 OF 2 - EE 1098+00 TO EE 1232+15

CVL-NE-01601 NAVARRO EAST SEGMENT - CIVIL - KEY MAP - SHEET 2 OF 2 - NE 1074+00 TO NE 1652+05

2B-2 NAVARRO EAST SEGMENT

2B-3 ELLIS EAST SEGMENT

2B-1 IH-45 SEGMENT

DRAWING DESCRIPTIONS

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



Dallas, Texas 75204 Tel (214) 217 2200 Fax (214) 217 2201 www.freese.com Texas Registered Engineering Firm, F-2144

DALLAS TO HOUSTON HIGH-SPEED RAIL FINAL CONCEPTUAL ENGINEERING

1409 South Lamar Street, Sulte 1022, Dallas.Texas 75215

Drawing Title

GENERAL INDEX SHEET 3 OF 5

NO SCALE FINAL 234180 GEN-00-00005 01

VOLUME 2B - RAILWAY ALIGNMENT PLAN AND PROFILE SHEETS

DRAWING NO.	DRAWING DESCRIPTIONS
	2B-3 ELLIS EAST SEGMENT
CVL-EE-01814	ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 706+00 TO EE 762+00
CVL-EE-01815	ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 762+00 TO EE 818+00
CVL-EE-01816	ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 818+00 TO EE 874+00
CVL-EE-01817	ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 874+00 TO EE 930+00
CVL-EE-01818	ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 930+00 TO EE 986+00
CVL-EE-01819	ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 986+00 TO EE 1042+00
CVL-EE-01820	ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 1042+00 TO EE 1098+00
CVL-EE-01821	ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 1098+00 TO EE 1154+00
CVL-EE-01822	ELLIS EAST SEGMENT - CIVIL - PLAN AND PROFILE EE 1154+00 TO EE 1210+00
CVL-EE-01823	FLUS FAST SEGMENT - CIVIL - PLAN AND PROFILE FF 1210+00 TO FF 1232+15

\\N-YPWICS01\ICS Temp\42979\3121_86\234180-AEN-GEN-DWG-00-00005-V002 dar

DRAWING NO.	DRAWING DESCRIPTIONS
	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
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
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
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-04014	HOUSTON SEGMENT - MAINTENANCE FACILITIES - HOUSTON TMF - PROFILE
MNT-HN-04015	HOUSTON SEGMENT - MAINTENANCE FACILITIES - MOW FACILITY HN-5 - LAYOUT HOUSTON SEGMENT - MAINTENANCE FACILITIES - MOW FACILITY HN-5 - PROFILE
MNT-WT-04016	WEST OF TEAGUE SEGMENT - MAINTENANCE FACILITIES - MOW FACILITY MT-1 - LAYOUT
MNT-WT-04017	WEST OF TEAGUE SEGMENT - MAINTENANCE FACILITIES - MOW FACILITY WT-1 - LATOUT
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
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	HN, WT, NW, EW, DS - RAILWAY FACILITIES - TPSS LOOP 1FDR - TYPICAL LAYOUT PLAN
SYS-00-01005	HN, WT, NW, EW, DS - RAILWAY FACILITIES - TPSS RADIAL 2FDR - TYPICAL LAYOUT PLAN
SYS-00-01006	HN, WT, NW, EW, DS - RAILWAY FACILITIES - TPSS RADIAL 1FDR - TYPICAL LAYOUT PLAN
SYS-00-02000	GENERAL - RAILWAY FACILITIES - FACILITIES SPACING - ALIGN ALT A FSL
SYS-00-02001	GENERAL - RAILWAY FACILITIES - FACILITIES SPACING - ALIGN ALT A ISL
SYS-00-03000	HT1, HT2, HT3, HN1, HN2, - WT, NW, EW, DS, DT - RAILWAY FACILITIES - FACILITY LOCATIONS
DDV 02 2222	3A-4 ROADWAY FACILITIES
RDY-00-03037	GENERAL - ROADWAY FACILITIES - EMERGENCY RESPONSE MAINTENANCE – AND STAGING AREA LAYOUTS

VOLUME 3B - STATIONS, MAINTENANCE FACILITIES AND RAILWAY SYSTEMS SHEETS

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 1 OF 3
MNT-IH-04023	IH-45 SEGMENT - MAINTENANCE FACILITIES - MOW FACILITY IH-1 - LAYOUT - SHEET 2 OF 3
MNT-IH-04024	IH-45 SEGMENT - MAINTENANCE FACILITIES - MOW FACILITY IH-1 - LAYOUT - SHEET 3 OF 3
MNT-IH-04025	IH-45 SEGMENT - MAINTENANCE FACILITIES - TRACK CONNECTION - LAYOUT - SHEET 1 OF 8
MNT-IH-04026	IH-45 SEGMENT - MAINTENANCE FACILITIES - TRACK CONNECTION - LAYOUT - SHEET 2 OF 8
MNT-IH-04027	IH-45 SEGMENT - MAINTENANCE FACILITIES - TRACK CONNECTION - LAYOUT - SHEET 3 OF 8
MNT-IH-04028	IH-45 SEGMENT - MAINTENANCE FACILITIES - TRACK CONNECTION - LAYOUT - SHEET 4 OF 8
MNT-IH-04029	IH-45 SEGMENT - MAINTENANCE FACILITIES - TRACK CONNECTION - LAYOUT - SHEET 5 OF 8
MNT-IH-04030	IH-45 SEGMENT - MAINTENANCE FACILITIES - TRACK CONNECTION - LAYOUT - SHEET 6 OF 8
MNT-IH-04031	IH-45 SEGMENT - MAINTENANCE FACILITIES - TRACK CONNECTION - LAYOUT - SHEET 7 OF 8
MNT-IH-04032	IH-45 SEGMENT - MAINTENANCE FACILITIES - TRACK CONNECTION - LAYOUT - SHEET 8 OF 8
MNT-IH-04033	IH-45 SEGMENT - MAINTENANCE FACILITIES - MOW FACILITY IH-2 - LAYOUT - SHEET 1 OF 3
MNT-IH-04034	IH-45 SEGMENT - MAINTENANCE FACILITIES - MOW FACILITY IH-2 - LAYOUT - SHEET 2 OF 3
MNT-IH-04035	IH-45 SEGMENT - MAINTENANCE FACILITIES - MOW FACILITY IH-2 - LAYOUT - SHEET 3 OF 3
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-00-01011	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

VOLUME 4B - NOT USED

VOLUME 4B - 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+00
RDY-IH-01102	IH-45 SEGMENT - CIVIL HIGHWAY - KEY MAP - SHEET 2 OF 5 IH1 1120+00 TO IH1 2240+00
RDY-IH-01103	IH-45 SEGMENT - CIVIL HIGHWAY - KEY MAP - SHEET 3 OF 5 IH1 2240+00 TO IH1 3360+00
RDY-IH-01104	IH-45 SEGMENT - CIVIL HIGHWAY - KEY MAP - SHEET 4 OF 5 IH1 3360+00 TO IH2 224+00
RDY-IH-01105	IH-45 SEGMENT - CIVIL HIGHWAY - KEY MAP - SHEET 5 OF 5 IH2 224+00 TO IH2 540+81
RDY-IH1-04001	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 10+00 TO IH1 100+00
RDY-IH1-04002	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. IH1 190+00 TO IH1 280+00
RDY-IH1-04004	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 280+00 TO IH1 370+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	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
RDY-IH1-04012	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1000+00 TO IH1 1090+00
RDY-IH1-04013	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1090+00 TO IH1 1180+00
RDY-IH1-04014	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1180+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	H-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. H1 1360+00 TO H1 1450+00
RDY-IH1-04017	H-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. H1 1450+00 TO H1 1540+00
RDY-IH1-04018	H-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. H1 1540+00 TO H1 1630+00
RDY-IH1-04019	H-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. H1 1630+00 TO H1 1720+00
RDY-IH1-04020	H-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. H1 1720+00 TO H1 1810+00
RDY-IH1-04021	H-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. H1 1810+00 TO H1 1900+00
RDY-IH1-04022	H-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 1900+00 TO IH1 1990+00
RDY-IH1-04023	H-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. H1 1990+00 TO H1 2080+00
RDY-IH1-04024	H-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2080+00 TO IH1 2170+00
RDY-IH1-04025	H-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2170+00 TO IH1 2260+00
RDY-IH1-04026	H-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2260+00 TO IH1 2350+00
RDY-IH1-04027	H-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2350+00 TO IH1 2440+00
RDY-IH1-04028	H-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2440+00 TO IH1 2530+00
RDY-IH1-04029	H-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2530+00 TO IH1 2620+00
RDY-IH1-04030	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2620+00 TO IH1 2710+00
RDY-IH1-04031	IH-45 SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. IH1 2710+00 TO IH1 2800+00
RDY-IH1-04032	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

| DESIGNED BY | D. THOMPSON | DRAWN BY | D. THOMPSON | DRAWN BY | D. THOMPSON | D. THOMPSON | CHECKED BY | R. BURNS | R. BURNS | N. CHARGE | C. TAYLOR | DATE | BY CHK | APP | DESCRIPTION | DATE | 02/25/2019 |



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



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



1409 South Lamar Street, Sulte 1022, Dallas.Texas 75215

GENERAL INDEX SHEET 4 OF 5

\\N-YPWICS01\ICS Temp\42979\3121_89\234180-AFN-GEN-DWG-00-00006-V002.dgn

Arup Texas **I**n

Arup

RDY-EE-01101 ELLIS EAST SEGMENT - CIVIL HIGHWAY - KEY MAP - SHEET 1 OF 2 EE 9+56 TO EE 1064+00 RDY-EE-01102 | ELLIS EAST SEGMENT - CIVIL HIGHWAY - KEY MAP - SHEET 2 OF 2 EE 1064+00 TO EE 1232+15

RDY-EE-04001 | ELLIS EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. EE 9+56 TO EE 100+00 RDY-EE-04002 | ELLIS EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. EE 100+00 TO EE 190+00 RDY-EE-04003 | 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 RDY-EE-04009 | ELLIS EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. EE 730+00 TO EE 820+00 RDY-EE-04010 | ELLIS EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. EE 820+00 TO EE 910+00 RDY-EE-04011 | ELLIS EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. EE 910+00 TO EE 1000+00 RDY-EE-04012 | ELLIS EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. EE 1000+00 TO EE 1090+00 RDY-EE-04013 | ELLIS EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. EE 1090+00 TO EE 1180+00 RDY-EE-04014 | ELLIS EAST SEGMENT - CIVIL HIGHWAY - PLAN VIEW - STA. EE 1180+00 TO EE 1232+15

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)

D. THOMPSON D. THOMPSON R. BURNS C. TAYLOR DESCRIPTION 02/25/2019 DATE

Arup Texas, Inc. 10370 Richmond Ave., Sulte 475 Houston, Texas 77042 USA Tel (713) 783 2787 Fax (713) 343 1467

FREESE NICHOLS Dallas, Texas 75204 Tel (214) 217 2200 Fax (214) 217 2201

www.freese.com
Texas Registered Engineering Firm, F-2144

DALLAS TO HOUSTON HIGH-SPEED RAIL FINAL CONCEPTUAL ENGINEERING

1409 South Lamar Street, Sulte 1022, Dallas.Texas 75215

Drawing Title

GENERAL INDEX SHEET 5 OF 5

NO SCALE FINAL 234180 GEN-00-00007 01

\\N-YPWICS01\ICS Temp\42979\3121_90\234180-AEN-GEN-DWG-00-00007-V002 dar

PLOT

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 NOT 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.
- 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
- "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 CELIANE INVADED. I VANDED FROM ARCORD UNLINE SERVICES, SOURCE: ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CRES/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 IMAGERY 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:

- 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
- 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

TRACK NOTES:

- 1. THE ALIGNMENT SHOWN ON THE PLAN AND PROFILE DRAWINGS REPRESENTS THE CENTERLINE OF THE TWO-TRACK HSR MAINLINE TRACKS.
- THE PROFILE SHOWN ON THE PLAN AND PROFILE DRAWINGS REPRESENTS THE TOP OF THE LOWER RAIL THROUGH HORIZONTAL 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
- 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.

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
- 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
- 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 II LUSTRATE 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
- 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
- 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:

- 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.

DRAINAGE NOTES:

- PROPOSED DETENTION BASIN LOCATIONS AND DIMENSIONS SHOWN ARE APPROXIMATE AND ARE INTENDED FOR PRELIMINARY PLANNING AND ENVIRONMENTAL IMPACT ANALYSIS PURPOSES ONLY. SITE SPECIFIC CONFIGURATIONS WOULD BE DEVELOPED DURING FINAL DESIGN IN ACCORDANCE WITH APPLICABLE REQUIREMENTS.
- 2. EXISTING CULVERTS ARE NOT SHOWN.
- PROPOSED TRACK AND ROADWAY STORMWATER DRAINAGE WOULD BE DEVELOPED DURING FINAL DESIGN IN ACCORDANCE WITH APPLICABLE REQUIREMENTS. REFER TO TYPICAL SECTION DRAWINGS FOR PROPOSED CONFIGURATIONS.
- 4. EXISTING STORMWATER FACILITIES ARE NOT SHOWN.
- 5 TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) WATER QUALITY CRITERIA WOULD BE MET FOR TORMWATER RUNOFF AND PROTECTION OF EXISTING WATER RESOURCES.
- 6. CONSTRUCTION OF THE RAIL MAY REQUIRE THE RECONFIGURATION OF PONDS OR STOCK TANKS IMMEDIATELY ADJACENT TO THE RAIL CORRIDOR. IN CASES WHERE THE CURRENT DESIGN NECESSITATES A FULL RELOCATION OF THE POND, ALLOWANCES HAVE BEEN MADE WITHIN THE LOD. IN CASES WHERE THE FULL RELOCATION OF THE POND IS NOT REQUIRED UNDER THE CURRENT DESIGN. ADDITIONA COORDINATION WITH LANDOWNER WILL BE UNDERTAKEN TO DEVELOP IMPROVEMENTS CONSIDERING

STRUCTURES GENERAL NOTES:

- 1. TYPICAL SECTIONS WERE DEVELOPED TO IDENTIFY GENERAL ARRANGEMENTS AND ALLOWANCES FOR STRUCTURAL ELEMENTS. TYPICAL SECTIONS WERE USED AS THE BASIS FOR DEVELOPMENT OF LOD FOR
- 2. APPROXIMATE HSR VIADUCT AND BRIDGE STRUCTURE LIMITS AND DEPTHS ARE SHOWN ON THE PROFILES TO SUPPORT ENVIRONMENTAL IMPACT ANALYSIS. LIMITS OF STRUCTURES AND EMBANKMENTS WOULD BE REFINED DURING FINAL DESIGN.
- 3. PLAN AND PROFILE DRAWINGS DO NOT SHOW LIMITS OF STRUCTURES IN PLAN VIEW. SITE SPECIFIC STRUCTURAL DESIGN WOULD BE DEVELOPED DURING FINAL ENGINEERING IN ACCORDANCE WITH APPLICABLE REQUIREMENTS. DESIGN OF FOUNDATIONS ABUTMENTS PIERS AND OTHER STRUCTURES WOULD BE DEVELOPED TO MITIGATE ANY IMPACTS IDENTIFIED THROUGH ENVIRONMENTAL ANALYSIS.
- 4. HSR PROFILE WAS DEVELOPED TO PROVIDE A MINIMUM 3FT VERTICAL CLEAR DISTANCE FROM ESTIMATED 100 YEAR FLOOD LEVEL TO BRIDGE SOFFIT FOR RIVER AND FLOODPLAIN CROSSINGS. FINAL DESIGN WOULD BE DEVELOPED TO MEET OR EXCEED THIS REQUIREMENT.
- SPECIAL STRUCTURES WOULD BE REQUIRED TO MITIGATE IMPACTS OR ADDRESS UNIQUE SITE SPECIFIC ISSUES SUCH AS LONG SPANS, CROSSOVER STRUCTURES, AND STRADDLE BENTS TO AVOID OR MITIGATE IMPACTS. THE CONSTRUCTABILITY REPORT IDENTIFIES SPECIAL STRUCTURE LOCATIONS. PLAN AND PROFILE DRAWINGS IDENTIFY ADDITIONAL LOD EXPECTED FOR CONSTRUCTION STAGING AND WORKING

SYSTEMS GENERAL NOTES:

- 1. SYSTEMS SCHEMATICS, SHOWN ON SHEETS SYS-00-02000 THROUGH SYS-00-02006, SHOW LOCATIONS OF SYSTEMS FACILITIES THAT HAVE BEEN INCLUDED FOR EACH END-TO-END ALTERNATIVE.
- 2. AREA FOR SYSTEMS FACILITY SITES HAVE BEEN INCLUDED WITHIN THE PROJECT LOD, THESE AREAS ARE GENERICALLY CALLED OUT AS "RAIL SYSTEMS SITES" ON THE PLAN AND PROFILE SHEETS. REFER TO FCE REPORT TO DETERMINE THE SPECIFIC FACILITY TYPE AT EACH INDIVIDUAL LOCATION.
- 3. TYPICAL LAYOUT PLANS FOR EACH OF THE SYSTEMS FACILITIES ARE INCLUDED IN SHEETS SYS-00-01000
- 4. LOD DEVELOPED FOR ENVIRONMENTAL IMPACT ANALYSIS OF SYSTEMS SITES INCLUDED SPACE FOR A DRIVEWAY AND SPACE TO PARK A LIMITED NUMBER OF MAINTENANCE VEHICLES.
- 5. SYSTEMS BUILDINGS WOULD BE DETAILED DURING FINAL DESIGN TO CONSIDER SITE SPECIFIC CONDITIONS, BE CONTEXT SENSITIVE, AND MINIMIZE VISUAL IMPACT. THE RADIO MAST AT COMMUNICATION FACILITIES WOULD BE APPROXIMATELY 50FT (15M) ABOVE THE TOP OF RAIL ELEVATION.
- TPSS WOULD BE CONNECTED TO THE NEAREST 138KV TRANSMISSION LINES DESIGNED BY UTILITY PROVIDER AND SUBJECT TO ENVIRONMENTAL REVIEW.

FACILITY NOTES:

- PROPOSED HSR FACILITIES WOULD INCLUDE STATIONS AND ASSOCIATED PARKING GARAGES, MAINTENANCE OF WAY (MOW) FACILITIES, TRAINSET MAINTENANCE FACILITIES (TMF), AND RAILWAY SYSTEMS SITES, INCLUDING TRACTION POWER SUPPLY FACILITIES, SIGNAL HOUSES, AND COMMUNICATIONS HOUSES, LOCATIONS, LIMITS OF DISTURBANCE, AND AREAS SHOWN FOR THE VARIOUS PROPOSED FACILITIES ARE FOR PRELIMINARY PLANNING PURPOSES ONLY.
- 2. ALL FACILITIES WOULD BE POWERED FROM THE LOCAL UTILITY GRID.
- 3. ACCESS, SECURITY, AND UTILITY PROVISION REQUIREMENTS FOR ALL FACILITIES WOULD BE DETAILED

CONSTRUCTION CONSIDERATION NOTES:

- CONSTRUCTION REQUIREMENTS WERE CONSIDERED DURING DEVELOPMENT OF THE CONCEPTUAL ENGINEERING AND ARE DOCUMENTED IN THE PROJECT CONSTRUCTABILITY REPORT.
- 2 TEMPORARY CONSTRUCTION AREAS REQUIRED FOR CONSTRUCTION ACCESS. CONSTRUCTION STAGING, AND PRECASTING FACILITIES WERE IDENTIFIED DURING DEVELOPMENT OF THE CONCEPTUAL ENGINEERING. CONSTRUCTION STAGING AREAS AND PRECAST FACILITIES ARE INCLUDED IN THE PROJECT LOD.
- 3. SPECIAL STRUCTURES REQUIRED TO MITIGATE IMPACTS OR ADDRESS UNIQUE SITE SPECIFIC ISSUES SUCH AS LONG SPANS, CROSSOVER STRUCTURES, AND STRADDLE BENTS ARE IDENTIFIED IN THE CONSTRUCTABILITY
- 4. MEASURES REQUIRED TO MITIGATE NOISE, TRAFFIC, AND OTHER ENVIRONMENTAL IMPACTS WOULD BE IDENTIFIED THROUGH THE ENVIRONMENTAL ANALYSES. MORE DETAILED DESIGN INCLUDING DEVELOPMENT OF MAINTENANCE AND PROTECTION OF TRAFFIC AND OTHER CONSTRUCTION SPECIFIC PLANS AND PROCEDURES WOULD BE REQUIRED TO SECURE APPLICABLE PERMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION

D. THOMPSON D. THOMPSON R. BURNS C. TAYLOR DESCRIPTION 02/25/2019

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

FREESE INICHOLS 2711 North Haskell Ave., Suite 3300 Dallas, Texas 75204 Tel (214) 217 2200 Fax (214) 217 2201

Texas Registered Engineering Firm: F-2144

DALLAS TO HOUSTON HIGH-SPEED RAIL FINAL CONCEPTUAL ENGINEERING TEXAS CENTRAL

1409 South Lamar Street, Suite 1022, Dallas Texas 75215

GENERAL NOTES

Drawing Title

NO SCALE FINAL 234180 GEN-00-00008 01

