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 USER: jmg DATE: 9/16/2020 TIME: 12:13:36 PM

Beginning chain NBFR description  
 Feature: Road\_Centerline

Point NBFR1 N 6,918,774.6140 E 2,600,201.5920 Sta 233+00.00  
 Course from NBFR1 to PC NBFR\_3 S 48° 40' 05.44" E Dist 285.1952

Curve Data  
 Curve NBFR\_3  
 P.I. Station 236+40.77 N 6,918,549.5641 E 2,600,457.4741  
 Delta 6° 21' 42.05" (RT)  
 Degree 5° 43' 46.48"  
 Tangent 55.5732  
 Length 111.0323  
 Radius 1,000.0000  
 External 1.5430  
 Long Chord 110.9753  
 Mid. Ord. 1.5406  
 P.C. Station 235+28.90 N 6,918,586.2658 E 2,600,415.7443  
 P.T. Station 236+39.96 N 6,918,509.4647 E 2,600,494.8803  
 C.C. Station 236+36.23 N 6,917,835.3683 E 2,599,755.3255  
 Back S 48° 40' 05.44" E  
 Ahead S 42° 18' 23.39" E  
 Chord Bear S 45° 29' 14.42" E

Course from PT NBFR\_3 to PC NBFR\_6 S 42° 18' 23.39" E Dist 101.7561

Curve Data  
 Curve NBFR\_6  
 P.I. Station 239+18.50 N 6,918,344.0844 E 2,600,644.4889  
 Delta 6° 53' 47.59" (LT)  
 Degree 2° 51' 53.24"  
 Tangent 120.5131  
 Length 240.7351  
 Radius 2,000.0000  
 External 1.6276  
 Long Chord 240.5898  
 Mid. Ord. 3.6210  
 P.C. Station 237+97.98 N 6,918,433.2105 E 2,600,563.3719  
 P.T. Station 240+38.72 N 6,918,265.3436 E 2,600,735.7209  
 C.C. Station 240+38.72 N 6,919,779.4032 E 2,602,042.4815  
 Back S 42° 18' 23.39" E  
 Ahead S 49° 12' 10.98" E  
 Chord Bear S 45° 45' 17.19" E

Course from PT NBFR\_6 to PC NBFR\_9 S 49° 12' 10.98" E Dist 416.8235

Curve Data  
 Curve NBFR\_9  
 P.I. Station 245+77.16 N 6,917,913.5333 E 2,601,143.3408  
 Delta 2° 42' 12.62" (LT)  
 Degree 1° 08' 15.62"  
 Tangent 243.1676  
 Length 486.3352  
 Radius 5,000.0000  
 External 1.4790  
 Long Chord 483.1737  
 Mid. Ord. 1.4786  
 P.C. Station 244+55.54 N 6,917,992.9993 E 2,601,051.2687  
 P.T. Station 246+98.74 N 6,917,838.6379 E 2,601,239.1677  
 C.C. Station 246+98.74 N 6,921,778.1485 E 2,604,318.1702  
 Back S 49° 12' 10.98" E  
 Ahead S 51° 59' 23.60" E  
 Chord Bear S 50° 35' 47.29" E

Course from PT NBFR\_9 to PC NBFR\_12 S 51° 59' 23.60" E Dist 61.8797

Curve Data  
 Curve NBFR\_12  
 P.I. Station 253+48.46 N 6,917,438.5393 E 2,601,751.0844  
 Delta 11° 46' 34.34" (LT)  
 Degree 1° 00' 18.68"  
 Tangent 587.8415  
 Length 1,171.5414  
 Radius 5,700.0000  
 External 1.2562  
 Long Chord 1,169.4303  
 Mid. Ord. 1.3079  
 P.C. Station 247+60.62 N 6,917,800.5324 E 2,601,287.9228  
 P.T. Station 259+32.16 N 6,917,178.6918 E 2,602,278.3764  
 C.C. Station 259+32.16 N 6,922,291.5744 E 2,604,797.9857  
 Back S 51° 59' 23.60" E  
 Ahead S 63° 45' 57.95" E  
 Chord Bear S 57° 52' 40.78" E

Course from PT NBFR\_12 to NBFR15 S 63° 45' 57.95" E Dist 1,036.9473

Point NBFR15 N 6,916,720.3230 E 2,603,208.5150 Sta 269+69.11  
 Course from NBFR15 to NBFR17 S 65° 07' 52.06" E Dist 363.8796

Point NBFR17 N 6,916,567.2960 E 2,603,538.6530 Sta 273+32.99  
 Course from NBFR17 to NBFR19 S 64° 33' 33.36" E Dist 314.9585

Point NBFR19 N 6,916,431.9970 E 2,603,823.0700 Sta 276+47.95  
 Course from NBFR19 to PC NBFR\_21 S 67° 02' 24.83" E Dist 217.1034

Curve Data  
 Curve NBFR\_21  
 P.I. Station 280+42.96 N 6,916,277.9090 E 2,604,186.7885  
 Delta 4° 20' 07.96" (RT)  
 Degree 1° 13' 08.61"  
 Tangent 177.9083  
 Length 355.6468  
 Radius 4,700.0000  
 External 1.3650  
 Long Chord 353.3620  
 Mid. Ord. 3.3636  
 P.C. Station 278+55.36 N 6,916,347.3083 E 2,604,022.9742  
 P.T. Station 282+20.70 N 6,918,196.3243 E 2,604,344.8875  
 C.C. Station 282+20.70 N 6,912,019.6471 E 2,602,189.5761  
 Back S 67° 02' 24.83" E  
 Ahead S 62° 42' 16.87" E  
 Chord Bear S 64° 52' 20.85" E

Course from PT NBFR\_21 to NBFR24 S 62° 42' 16.87" E Dist 641.2214

Point NBFR24 N 6,915,902.2750 E 2,604,914.7120 Sta 288+61.92  
 Course from NBFR24 to NBFR26 S 63° 10' 03.51" E Dist 693.9162

Point NBFR26 N 6,915,589.0540 E 2,605,533.9150 Sta 295+55.83

Course from NBFR26 to NBFR28 S 63° 41' 28.88" E Dist 391.7384

Point NBFR28 N 6,915,415.4330 E 2,605,885.0770 Sta 299+47.57  
 Course from NBFR28 to PC NBFR\_30 S 63° 46' 03.55" E Dist 2,105.2481

Curve Data  
 Curve NBFR\_30  
 P.I. Station 329+02.40 N 6,914,109.3617 E 2,608,535.5859  
 Delta 17° 33' 43.51" (LT)  
 Degree 1° 02' 30.27"  
 Tangent 849.8278  
 Length 1,685.8393  
 Radius 5,500.0000  
 External 1.2304  
 Long Chord 1,679.2476  
 Mid. Ord. 64.4658  
 P.C. Station 320+52.82 N 6,914,484.8874 E 2,607,773.5034  
 P.T. Station 337+38.66 N 6,913,981.2892 E 2,609,375.4588  
 C.C. Station 337+38.66 N 6,919,418.4367 E 2,610,204.5713  
 Back S 63° 46' 03.55" E  
 Ahead S 81° 19' 47.06" E  
 Chord Bear S 72° 32' 55.30" E

Course from PT NBFR\_30 to PC NBFR\_33 S 81° 19' 47.06" E Dist 3,130.7938

Curve Data  
 Curve NBFR\_33  
 P.I. Station 373+62.35 N 6,913,435.0263 E 2,612,957.7372  
 Delta 9° 53' 04.08" (LT)  
 Degree 1° 00' 18.68"  
 Tangent 492.8951  
 Length 983.3441  
 Radius 5,700.0000  
 External 1.2713  
 Long Chord 982.1632  
 Mid. Ord. 1.2713  
 P.C. Station 368+65.45 N 6,913,509.3291 E 2,612,470.4748  
 P.T. Station 378+52.80 N 6,913,445.4709 E 2,613,450.5216  
 C.C. Station 378+52.80 N 6,919,144.1911 E 2,613,329.7368  
 Back S 81° 19' 47.06" E  
 Ahead S 88° 47' 08.86" E  
 Chord Bear S 86° 16' 19.10" E

Course from PT NBFR\_33 to PC NBFR\_36 N 88° 47' 08.86" E Dist 1,963.1594

Curve Data  
 Curve NBFR\_36  
 P.I. Station 399+49.69 N 6,913,489.9047 E 2,615,546.9422  
 Delta 44° 43' 57.58" (LT)  
 Degree 17° 37' 46.09"  
 Tangent 133.7320  
 Length 267.4640  
 Radius 525.0000  
 External 26.4388  
 Long Chord 247.3426  
 Mid. Ord. 24.4498  
 P.C. Station 398+15.96 N 6,913,487.0709 E 2,615,413.2402  
 P.T. Station 400+69.70 N 6,913,586.0173 E 2,615,639.9294  
 C.C. Station 400+69.70 N 6,913,811.9979 E 2,615,406.3534  
 Back N 88° 47' 08.86" E  
 Ahead N 44° 03' 11.27" E  
 Chord Bear N 66° 25' 10.06" E

Course from PT NBFR\_36 to PC NBFR\_39 N 44° 03' 11.27" E Dist 171.9276

Curve Data  
 Curve NBFR\_39  
 P.I. Station 403+00.81 N 6,913,752.1211 E 2,615,800.6319  
 Delta 43° 04' 08.32" (RT)  
 Degree 38° 11' 49.87"  
 Tangent 59.1909  
 Length 112.7543  
 Radius 150.0000  
 External 11.2562  
 Long Chord 110.1184  
 Mid. Ord. 10.4705  
 P.C. Station 402+41.69 N 6,913,709.5809 E 2,615,759.4750  
 P.T. Station 403+54.38 N 6,913,755.0829 E 2,615,859.7481  
 C.C. Station 403+54.38 N 6,913,605.2821 E 2,615,867.2793  
 Back N 44° 03' 11.27" E  
 Ahead N 44° 03' 11.27" E  
 Chord Bear N 65° 35' 15.43" E

Course from PT NBFR\_39 to NBFR41 N 87° 07' 19.59" E Dist 60.4091

Point NBFR41 N 6,913,758.1259 E 2,615,920.0810 Sta 404+14.79

Ending chain NBFR description

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DATE	BY	REV	REVISION

**DANNENBAUM**  
 ENGINEERING COMPANY - DALLAS, LLC  
 T.B.P.E. FIRM REGISTRATION #392  
 3030 LBJ FREEWAY, SUITE 910 DALLAS, TX 75234 (972) 239-2002

US 175

HORIZ. ALIGN.  
 DATA  
 WBFR ROAD

SHEET OF  
 @YEARS

Texas  
 Department  
 of Transportation

CONT	SECT	JOB	HIGHWAY
0197	03	054	US 175
DIST	COUNTY	SHEET NO.	
18	KAUFMAN	1	