

DATE:7/28/2020 TIME:2:59:23 PM

FILE:c:\txdot\dw\online\txdot5\pwn\line*amanda.ses\ar\0340914\Horizontal Align Data Sheet 1 i.dgn

FM 780 ALIGNMENT DATA

<* 1 Describe Chain PROP_FM780

Chain PROP_FM780 contains:

1 2 3 4 5 CUR PROP_FM780_11 CUR PROP_FM780_14 6 7 CUR PROP_FM780_21 CUR
PROP_F-
M780_22 8 9 CUR PROP_FM780_29 10 11 CUR PROP_FM780_36 12 13 14 CUR
PROP_FM780_4-
5 15 16 17 CUR PROP_FM780_54 CUR PROP_FM780_55 CUR PROP_FM780_58 CUR
PROP_FM780-
_61 18

Beginning chain PROP_FM780 description

Feature: Road_Centerline

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Point 1 N 6,879,200.7836 E 2,545,104.5231 Sta
0+00.00

Course from 1 to 2 N 61° 42' 36.90" E Dist 168.3378

Point 2 N 6,879,280.5640 E 2,545,252.7550 Sta
1+68.34

Course from 2 to 3 N 60° 22' 03.90" E Dist 1,000.0000

Point 3 N 6,879,774.9952 E 2,546,121.9718 Sta
11+68.34

Course from 3 to 4 N 61° 10' 45.20" E Dist 1,000.0000

Point 4 N 6,880,257.0667 E 2,546,998.1037 Sta
21+68.34

Course from 4 to 5 N 60° 56' 17.48" E Dist 1,000.0000

Point 5 N 6,880,742.8196 E 2,547,872.1998 Sta
31+68.34

Course from 5 to PC PROP_FM780_11 N 64° 09' 17.33" E Dist 42.9582

Curve Data

Curve PROP_FM780_11
P.I. Station 35+63.30 N 6,880,914.9996 E
2,548,227.6556
Delta = 86° 30' 28.96" (RT)
Degree = 15° 18' 50.64"
Tangent = 352.0036
Length = 564.8927
Radius = 374.1382
External = 139.5601
Long Chord = 512.7445

Mid. Ord. = 101.6448
P.C. Station 32+11.30 N 6,880,761.5468 E
2,547,910.8611
P.T. Station 37+76.19 N 6,880,608.1398 E
2,548,400.1190
C.C. N 6,880,424.8316 E
2,548,073.9633
Back = N 64° 09' 17.33" E
Ahead = S 29° 20' 13.71" E
Chord Bear = S 72° 35' 28.19" E

Course from PT PROP_FM780_11 to PC PROP_FM780_14 S 29° 20' 13.71" E Dist
965.9981

Curve Data

Curve PROP_FM780_14
P.I. Station 50+95.93 N 6,879,457.6494 E
2,549,046.7251
Delta = 90° 52' 33.68" (LT)
Degree = 16° 26' 46.92"
Tangent = 353.7472
Length = 552.5599
Radius = 348.3796
External = 148.1136
Long Chord = 496.4351
Mid. Ord. = 103.9284
P.C. Station 47+42.19 N 6,879,766.0292 E
2,548,873.4075
P.T. Station 52+94.75 N 6,879,635.6615 E
2,549,352.4191
C.C. N 6,879,936.7169 E
2,549,177.1080
Back = S 29° 20' 13.71" E
Ahead = N 59° 47' 12.60" E
Chord Bear = S 74° 46' 30.56" E

Course from PT PROP_FM780_14 to 6 N 59° 47' 12.60" E Dist 1,018.0773

Point 6 N 6,880,147.9769 E 2,550,232.1999 Sta
63+12.82

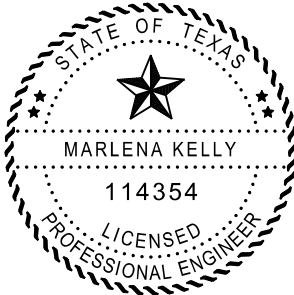
Course from 6 to 7 N 59° 14' 09.21" E Dist 1,000.0000

Point 7 N 6,880,659.4816 E 2,551,091.4804 Sta
73+12.82

Course from 7 to PC PROP_FM780_21 N 59° 08' 42.80" E Dist 1,000.0000

Curve Data

Curve PROP_FM780_21
P.I. Station 86+54.20 N 6,881,360.5388 E
2,552,234.7712



Marlena Kelly, P.E. 7/29/20
Signature of Registrant & Date



FM 780
HORIZONTAL
ALIGN DATA

SCALE: 1"=200' SHEET 1 OF 11

DESIGN	FED. RD. DIV. NO.	PROJECT NO.		HIGHWAY NO.
MH	6	SEE TITLE SHEET		FM 780
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
MH	TEXAS	DAL	ELLIS	72
CHECK LM	CONTROL	SECTION	JOB	
CHECK JP	1048	03	011	

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FM 780 ALIGNMENT DATA

Delta = 14° 26' 01.18" (RT)
Degree = 2° 07' 30.99"
Tangent = 341.3791
Length = 679.1436
Radius = 2,695.9245
External = 21.5281
Long Chord = 677.3492
Mid. Ord. = 21.3575
P.C. Station 83+12.82 N 6,881,172.3455 E
2,551,949.9504
P.T. Station 89+91.97 N 6,881,471.7980 E
2,552,557.5111
C.C. N 6,878,923.0698 E
2,553,436.1428
Back = N 56° 32' 44.00" E
Ahead = N 70° 58' 45.18" E
Chord Bear = N 63° 45' 44.59" E

Curve Data

Curve PROP_FM780_22
P.I. Station 94+06.41 N 6,881,624.4204 E
2,552,942.8323
Delta = 77° 45' 50.46" (RT)
Degree = 11° 08' 52.51"
Tangent = 414.4466
Length = 697.5653
Radius = 513.9594
External = 146.2831
Long Chord = 645.2438
Mid. Ord. = 113.8727
P.C. Station 89+91.97 N 6,881,471.7980 E
2,552,557.5111
P.T. Station 96+89.53 N 6,881,280.1992 E
2,553,173.6520
C.C. N 6,880,993.9573 E
2,552,746.7797
Back = N 68° 23' 30.87" E
Ahead = S 33° 50' 38.68" E
Chord Bear = S 72° 43' 33.91" E

Course from PT PROP_FM780_22 to 8 S 30° 59' 31.98" E Dist 986.0190

Point 8 N 6,880,434.9470 E 2,553,681.3745 Sta
106+75.55

Course from 8 to 9 S 30° 57' 43.79" E Dist 1,000.0000

Point 9 N 6,879,577.4398 E 2,554,195.8464 Sta
116+75.55

Course from 9 to PC PROP_FM780_29 S 31° 10' 53.36" E Dist 865.2450

Curve Data

Curve PROP_FM780_29
P.I. Station 130+35.74 N 6,878,413.7534 E
2,554,900.0861
Delta = 82° 21' 00.96" (LT)
Degree = 10° 07' 31.07"
Tangent = 494.9460
Length = 813.3121
Radius = 565.8676
External = 185.9154
Long Chord = 745.0925
Mid. Ord. = 139.9387
P.C. Station 125+40.80 N 6,878,837.1954 E
2,554,643.8275
P.T. Station 133+54.11 N 6,878,611.3642 E
2,555,353.8719
C.C. N 6,879,130.1737 E
2,555,127.9451
Back = S 31° 10' 53.36" E
Ahead = N 66° 28' 05.67" E
Chord Bear = S 72° 21' 23.84" E

Course from PT PROP_FM780_29 to 10 N 66° 28' 05.67" E Dist 46.5459

Point 10 N 6,878,629.9480 E 2,555,396.5470 Sta
134+00.65

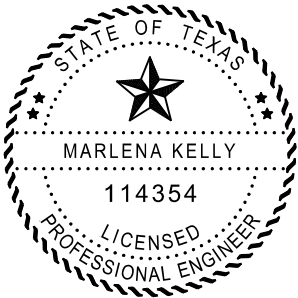
Course from 10 to 11 N 59° 07' 55.71" E Dist 1,000.0000

Point 11 N 6,879,143.0078 E 2,556,254.8999 Sta
144+00.65

Course from 11 to PC PROP_FM780_36 N 59° 35' 10.72" E Dist 354.9200

Curve Data

Curve PROP_FM780_36
P.I. Station 151+14.26 N 6,879,504.2637 E
2,556,870.3086
Delta = 64° 50' 56.17" (RT)
Degree = 10° 08' 48.65"
Tangent = 358.6862
Length = 639.1043
Radius = 564.6659
External = 104.2910
Long Chord = 605.5333
Mid. Ord. = 88.0320
P.C. Station 147+55.57 N 6,879,322.6824 E
2,556,560.9803
P.T. Station 153+94.68 N 6,879,301.4358 E
2,557,166.1408
C.C. N 6,878,835.7187 E
2,556,846.8366
Back = N 59° 35' 10.72" E



Marlena Kelly, P.E. 7/29/20
Signature of Registrant & Date



FM 780
HORIZONTAL
ALIGN DATA

SCALE: 1"=200' SHEET 2 OF 11

DESIGN	FED. RD. DIV. NO.	PROJECT NO.		HIGHWAY NO.
MH	6	SEE TITLE SHEET		FM 780
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
MH	TEXAS	DAL	ELLIS	73
CHECK LM	CONTROL	SECTION	JOB	
CHECK JP	1048	03	011	

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FM 780 ALIGNMENT DATA

Ahead = S 55° 33' 53.11" E
Chord Bear = S 87° 59' 21.20" E

Course from PT PROP_FM780_36 to 12 S 55° 33' 53.11" E Dist 53.7792

Point 12 N 6,879,271.0250 E 2,557,210.4960 Sta
154+48.46

Course from 12 to 13 S 52° 07' 37.16" E Dist 1,000.0000

Point 13 N 6,878,657.1116 E 2,557,999.8694 Sta
164+48.46

Course from 13 to 14 S 52° 06' 11.01" E Dist 1,000.0000

Point 14 N 6,878,042.8685 E 2,558,788.9862 Sta
174+48.46

Course from 14 to PC PROP_FM780_45 S 52° 24' 02.73" E Dist 945.8389

Curve Data

Curve PROP_FM780_45
P.I. Station 187+68.03 N 6,877,237.7499 E
2,559,834.4826
Delta = 67° 55' 23.98" (LT)
Degree = 10° 19' 32.38"
Tangent = 373.7363
Length = 657.8110
Radius = 554.8873
External = 114.1259
Long Chord = 619.9624
Mid. Ord. = 94.6574
P.C. Station 183+94.30 N 6,877,465.7794 E
2,559,538.3722
P.T. Station 190+52.11 N 6,877,426.4458 E
2,560,157.0856
C.C. N 6,877,905.4154 E
2,559,876.9282
Back = S 52° 24' 02.73" E
Ahead = N 59° 40' 33.29" E
Chord Bear = S 86° 21' 44.72" E

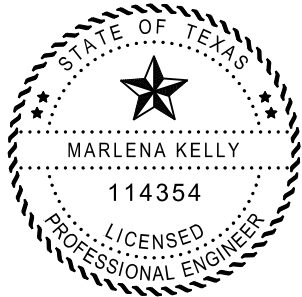
Course from PT PROP_FM780_45 to 15 N 59° 40' 33.29" E Dist 969.1918

Point 15 N 6,877,915.7816 E 2,560,993.6758 Sta
200+21.30

Course from 15 to 16 N 59° 58' 22.35" E Dist 1,000.0000

Point 16 N 6,878,416.1915 E 2,561,859.4644 Sta
210+21.30

Course from 16 to 17 N 59° 39' 28.02" E Dist 1,000.0000



Marlena Kelly, P.E. 7/16/20
Signature of Registrant & Date



FM 780
HORIZONTAL
ALIGN DATA

SCALE: 1"=200' SHEET 3 OF 11

DESIGN	FED. RD. DIV. NO.	PROJECT NO.		HIGHWAY NO.
MH	6	SEE TITLE SHEET		FM 780
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
MH	TEXAS	DAL	ELLIS	74
CHECK LM	CONTROL	SECTION	JOB	
CHECK JP	1048	03	011	

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FM 780 ALIGNMENT DATA

Point 17 N 6,878,921.3552 E 2,562,722.4880 Sta
220+21.30

Course from 17 to PC PROP_FM780_54 N 59° 50' 57.21" E Dist 1,000.0000

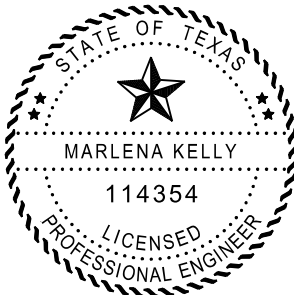
Curve Data

Curve PROP_FM780_54
P.I. Station 232+57.08 N 6,879,541.3957 E
2,563,791.4587
Delta = 0° 38' 31.91" (LT)
Degree = 0° 08' 10.27"
Tangent = 235.7795
Length = 471.5542
Radius = 42,071.2575
External = 0.6607
Long Chord = 471.5517
Mid. Ord. = 0.6607
P.C. Station 230+21.30 N 6,879,423.6324 E
2,563,587.1946
P.T. Station 234+92.85 N 6,879,661.4410 E
2,563,994.3900
C.C. N 6,915,871.4322 E
2,542,574.1369
Back = N 60° 02' 07.76" E
Ahead = N 59° 23' 35.84" E
Chord Bear = N 59° 42' 51.80" E

Curve Data

Curve PROP_FM780_55
P.I. Station 237+57.12 N 6,879,793.7996 E
2,564,223.1188
Delta = 1° 29' 11.47" (RT)
Degree = 0° 16' 52.58"
Tangent = 264.2643
Length = 528.4990
Radius = 20,370.2353
External = 1.7141
Long Chord = 528.4842
Mid. Ord. = 1.7139
P.C. Station 234+92.85 N 6,879,661.4410 E
2,563,994.3900
P.T. Station 240+21.35 N 6,879,920.1799 E
2,564,455.2042
C.C. N 6,862,030.3865 E
2,574,196.9585
Back = N 59° 56' 35.90" E
Ahead = N 61° 25' 47.37" E
Chord Bear = N 60° 41' 11.64" E

Course from PT PROP_FM780_55 to PC PROP_FM780_58 N 61° 53' 35.88" E Dist
351.3742



Marlena Kelly, P.E. 7/29/20
Signature of Registrant & Date



FM 780
HORIZONTAL
ALIGN DATA

SCALE: 1"=200'				SHEET 4 OF 11
DESIGN	FED. RD. DIV. NO.	PROJECT NO.		HIGHWAY NO.
MH	6	SEE TITLE SHEET		FM 780
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
MH	TEXAS	DAL	ELLIS	75
CHECK LM	CONTROL	SECTION	JOB	
CHECK JP	1048	03	011	

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FM 780 ALIGNMENT DATA

Curve Data

Curve PROP_FM780_58
P.I. Station 244+84.76 N 6,880,138.4968 E
2,564,863.9603
Delta = 5° 19' 30.50" (LT)
Degree = 2° 22' 42.10"
Tangent = 112.0305
Length = 223.8996
Radius = 2,409.0456
External = 2.6035
Long Chord = 223.8190
Mid. Ord. = 2.6007
P.C. Station 243+72.73 N 6,880,085.7176 E
2,564,765.1414
P.T. Station 245+96.63 N 6,880,200.2194 E
2,564,957.4544
C.C. N 6,882,210.6688 E
2,563,630.2038
Back = N 61° 53' 35.88" E
Ahead = N 56° 34' 05.38" E
Chord Bear = N 59° 13' 50.63" E

Course from PT PROP_FM780_58 to PC PROP_FM780_61 N 56° 34' 05.38" E Dist 673.0716

Curve Data

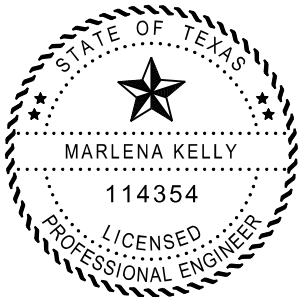
Curve PROP_FM780_61
P.I. Station 253+96.28 N 6,880,640.7832 E
2,565,624.7973
Delta = 3° 50' 44.76" (RT)
Degree = 1° 31' 10.82"
Tangent = 126.5803
Length = 253.0655
Radius = 3,770.2719
External = 2.1243
Long Chord = 253.0180
Mid. Ord. = 2.1231
P.C. Station 252+69.70 N 6,880,571.0445 E
2,565,519.1608
P.T. Station 255+22.76 N 6,880,703.2798 E
2,565,734.8734
C.C. N 6,877,424.5949 E
2,567,596.3717
Back = N 56° 34' 05.38" E
Ahead = N 60° 24' 50.14" E
Chord Bear = N 58° 29' 27.76" E

Course from PT PROP_FM780_61 to 18 N 60° 24' 50.14" E Dist 858.3916

Point 18 N 6,881,127.0939 E 2,566,481.3436 Sta 263+81.16

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Ending chain PROP_FM780 description



Marlena Kelly, P.E. 7/29/20
Signature of Registrant & Date



FM 780
HORIZONTAL
ALIGN DATA

SCALE: 1"=200' SHEET 5 OF 11

DESIGN	FED. RD. DIV. NO.	PROJECT NO.		HIGHWAY NO.
MH	6	SEE TITLE SHEET		FM 780
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
MH	TEXAS	DAL	ELLIS	76
CHECK LM	CONTROL	SECTION	JOB	
CHECK JP	1048	03	011	