Texas Department of Transportation

DESIGN SCHEMATIC

KELLY O. MORRIS, P.E.
LUFKIN DISTRICT ENGINEER

ROLL 4 OF 4

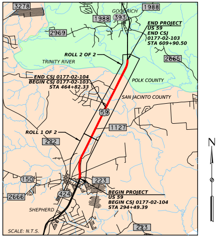
DATE:	STATE DISTRICT	COUNTY	CONTROL NO.	SEC NO.	JOB NO.
12/12/2024	LUFKIN	SAN JACINTO, POLK	0177	02	103, 104

TERRAIN: ROLLING
LIMITS: 0.74 MI. S. OF FM 223 TO 0.70 MI N. OF THE TRINITY RIVER
E MAX: 6%
EXIST ADT: 31,454
PROJ. ADT: 60,392

ROADWAY	FUNCTIONAL CLASSIFICATION	DESIGN SPEEDS
US 59 MAINLANES	RURAL FRWY. PRINCIPAL ARTERIAL	75 MPH
FRONTAGE ROADS	RURAL MAJOR COLLECTOR	50 MPH
RAMPS	RURAL RAMPS	65 MPH
FM 1127	RURAL MAJOR COLLECTOR	40 MPH
SL 424/LAKE POOL RD	RURAL LOCAL	30 MPH
LOCAL ROADS	RURAL LOCAL	30 MPH

PROJECT LOCATION MAP

POLK AND SAN JACINTO COUNTY


3278
GOODRICH
1988
1988
393
END PROJECT
US 59
END CSJ
0177-02-103
STA 609+90.50
2969
ROLL 2 OF 2
TRINITY RIVER
2665
END CSJ 0177-02-104
BEGIN CSJ 0177-02-103
STA 464+82.33
POLK COUNTY
SAN JACINTO COUNTY
59
1127
ROLL 1 OF 2
222
150
223
424
2666
BEGIN PROJECT
US 59
BEGIN CSJ 0177-02-104
STA 294+49.39
SHEPHERD
223
SCALE: N.T.S.
N

PROJECT LENGTH	FEDERAL AID PROJECT NO.	FED. RD. DIV. NO.	HIGHWAY NUMBER
5.90 MILES	XX, XXXXX	6	US 59

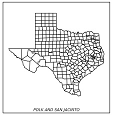
PRELIMINARY
SUBJECT TO REVISIONS

SCHEMATIC PREPARED BY:

TREVOR CASTILLA — 85405
NAME — P.E. NUMBER
12/12/2024
DATE

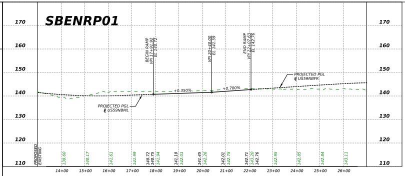
NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES

SCALE:1"=200'-H
SCALE:1"= 20'-V


POLK AND SAN JACINTO

TEXAS COUNTY MAP (N.T.S.)

JMT
7300 STATE HWY 121, STE. 550
MCKINNEY, TEXAS 75070
P 972.569.9193 F 972.569.9197
TEXAS REGISTERED ENGINEERING FIRM NO. F-16341


SBENRP01
BEGIN RAMP
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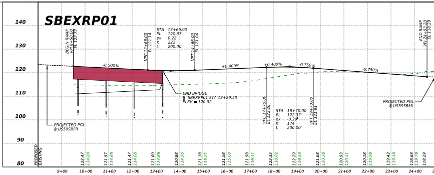
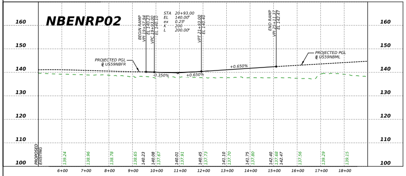
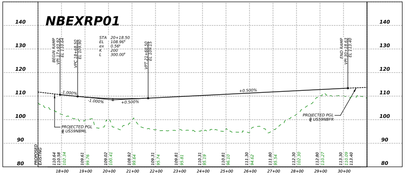
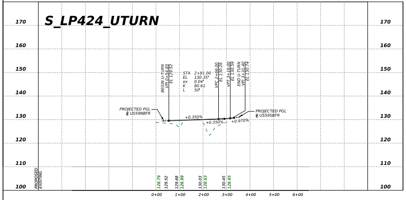
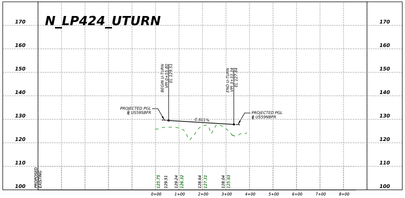
+0.700%
PROJECTED PGL @ US59NBFR
PROJECTED PGL @ US59NBML
PROPOSED
EXISTING


SBEXRP01
BEGIN RAMP
-0.500%
+0.400%
+0.400%
-0.750%
-0.750%
END BRIDGE @ SBEXRP01 STA 13+29.50 ELEV = 120.92'
PROJECTED PGL @ US59SBFR
PROJECTED PGL @ US59SBML
PROPOSED
EXISTING


NBENRP02
BEGIN RAMP
END RAMP
-0.350%
+0.650%
+0.650%
PROJECTED PGL @ US59NBFR
PROJECTED PGL @ US59NBML
PROPOSED
EXISTING


NBEXRP01
BEGIN RAMP
END RAMP
-1.000%
-1.000%
+0.500%
+0.500%
PROJECTED PGL @ US59NBML
PROJECTED PGL @ US59NBFR
PROPOSED
EXISTING


S_LP424_UTURN
BEGIN U-TURN
END U-TURN
+0.350%
+0.350%
+0.970%
PROJECTED PGL @ US59NBFR
PROJECTED PGL @ US59SBFR
PROPOSED
EXISTING


N_LP424_UTURN
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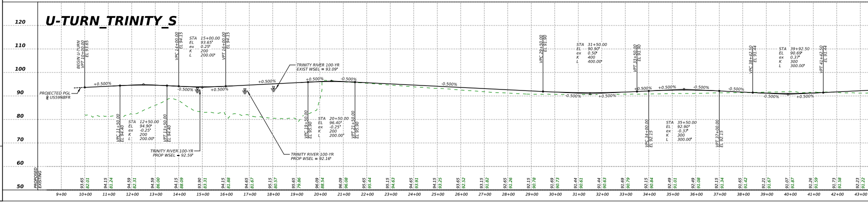
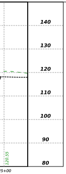
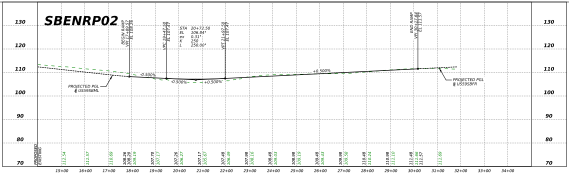
END U-TURN
-0.601%
PROJECTED PGL @ US59SBFR
PROJECTED PGL @ US59NBFR
PROPOSED
EXISTING


U-TURN_TRINITY_S
BEGIN U-TURN
PROJECTED PGL @ US59NBFR
+0.500%
-0.500%
+0.500%
+0.500%
+0.500%
-0.500%
-0.500%
TRINITY RIVER 100-YR EXIST WSEL = 93.09'
TRINITY RIVER 100-YR PROP WSEL = 92.59'
TRINITY RIVER 100-YR PROP WSEL = 92.16'
PROPOSED
EXISTING


140
130
120
110
100
90
80
120.55
25+00


SBENRP02
BEGIN RAMP
VPI 17+89.57
EL 108.26
VPC 19+47.50
EL 107.47
STA 20+72.50
EL 106.84'
ex 0.31'
K 250
L 250.00'
VPT 21+97.50
EL 107.47
END RAMP
VPI 30+17.64
EL 111.57
-0.500%
-0.500%
+0.500%
+0.500%
PROJECTED PGL
℄ US59SBML
PROJECTED PGL
℄ US59SBFR
PROPOSED
EXISTING
112.54
111.57
110.69
108.26
108.20
109.19
107.70
107.17
107.26
106.27
107.17
105.67
107.48
106.49
107.98
108.16
108.48
109.03
108.98
109.19
109.48
109.43
109.98
109.58
110.48
110.24
110.98
111.10
111.48
111.66
111.57
111.69
15+00
16+00
17+00
18+00
19+00
20+00
21+00
22+00
23+00
24+00
25+00
26+00
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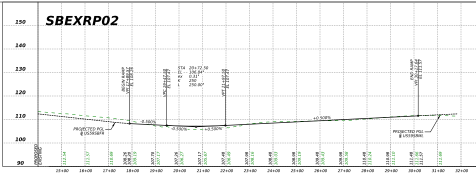
120
110
100
90
80
70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BEGIN RAMP
VPI 17+89.57
EL 108.26
VPC 19+47.50
EL 107.47
STA 20+72.50
EL 106.84'
ex 0.31'
K 250
L 250.00'
VPT 21+97.50
EL 107.47
END RAMP
VPI 30+17.64
EL 111.57
-0.500%
-0.500%
+0.500%
+0.500%
PROJECTED PGL
℄ US59SBFR
PROJECTED PGL
℄ US59SBML
PROPOSED
EXISTING
112.54
111.57
110.69
108.26
108.20
109.19
107.70
107.17
107.26
106.27
107.17
105.67
107.48
106.49
107.98
108.16
108.48
109.03
108.98
109.19
109.48
109.43
109.98
109.58
110.48
110.24
110.98
111.10
111.48
111.66
111.57
111.69
15+00
16+00
17+00
18+00
19+00
20+00
21+00
22+00
23+00
24+00
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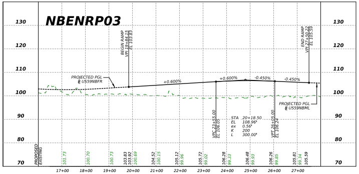
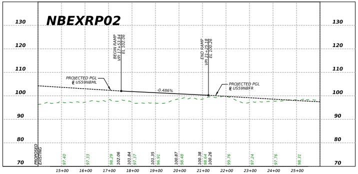
150
140
130
120
110
100
90


NBENRP03
BEGIN RAMP
VPI 19+84.15
EL 103.83
END RAMP
VPI 27+50.22
EL 105.59
PROJECTED PGL
℄ US59NBFR
+0.600%
+0.600%
-0.450%
-0.450%
PROJECTED PGL
℄ US59NBML
VPC 23+55.00
EL 106.05
STA 20+18.50
EL 108.96'
ex 0.56'
K 200
L 300.00'
VPT 26+05.00
EL 106.24
PROPOSED
EXISTING
101.73
100.70
100.73
103.83
103.92
100.69
104.52
100.15
105.12
99.96
105.72
99.02
106.28
99.33
106.48
99.93
106.26
99.85
105.81
99.34
105.59
17+00
18+00
19+00
20+00
21+00
22+00
23+00
24+00
25+00
26+00
27+00
130
120
110
100
90
80
70


NBEXRP02
BEGIN RAMP
VPI 17+53.94
EL 102.06
END RAMP
VPI 21+25.18
EL 100.26
PROJECTED PGL
℄ US59NBML
-0.486%
PROJECTED PGL
℄ US59NBFR
PROPOSED
EXISTING
97.40
97.33
98.29
102.06
101.84
97.37
101.35
96.91
100.87
98.48
100.38
98.64
100.26
99.76
97.24
97.76
98.31
15+00
16+00
17+00
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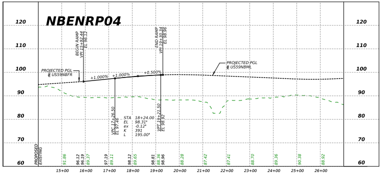
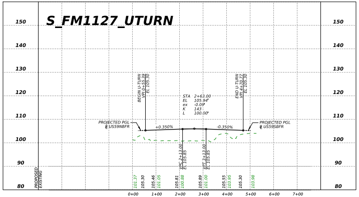
130
120
110
100
90
80
70


NBENRP04
BEGIN RAMP
VPI 15+92.44
EL 96.12
END RAMP
VPI 19+30.34
EL 98.96
PROJECTED PGL
℄ US59NBFR
+1.000%
+1.000%
+0.500%
PROJECTED PGL
℄ US59NBML
VPC 17+26.50
EL 97.46
STA 18+24.00
EL 98.31'
ex -0.12'
K 391
L 195.00'
VPT 19+21.50
EL 98.92
PROPOSED
EXISTING
91.86
96.12
96.19
89.37
97.19
89.11
98.12
89.65
98.81
88.36
98.96
88.28
87.42
87.41
88.70
89.36
90.38
88.92
15+00
16+00
17+00
18+00
19+00
20+00
21+00
22+00
23+00
24+00
25+00
26+00
120
110
100
90
80
70
60


S_FM1127_UTURN
BEGIN U-TURN
VPI 0+55.39
EL 105.30
STA 2+63.00
EL 105.94'
ex -0.09'
K 143
L 100.00'
END U-TURN
VPI 4+70.77
EL 105.30
PROJECTED PGL
℄ US59NBFR
+0.350%
-0.350%
PROJECTED PGL
℄ US59SBFR
VPC 2+13.00
EL 105.85
VPT 3+13.00
EL 105.85
PROPOSED
EXISTING
101.37
105.30
105.46
101.05
105.81
100.88
105.89
101.00
105.55
103.95
105.30
103.98
0+00
1+00
2+00
3+00
4+00
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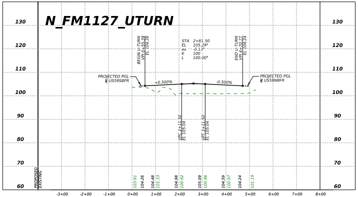
6+00
7+00
150
140
130
120
110
100
90
80


N_FM1127_UTURN
BEGIN U-TURN
VPI 0+55.39
EL 104.26
STA 2+61.50
EL 105.29'
ex -0.13'
K 100
L 100.00'
END U-TURN
VPI 4+70.77
EL 104.24
PROJECTED PGL
℄ US59SBFR
+0.500%
-0.500%
PROJECTED PGL
℄ US59NBFR
VPC 2+11.50
EL 105.04
VPT 3+11.50
EL 105.04
PROPOSED
EXISTING
103.61
104.26
104.48
101.33
104.98
100.92
105.09
100.86
104.59
100.97
104.24
101.19
-3+00
-2+00
-1+00
0+00
1+00
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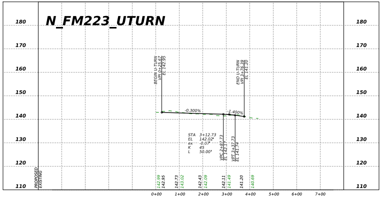
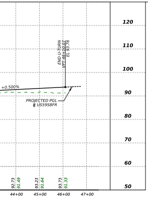
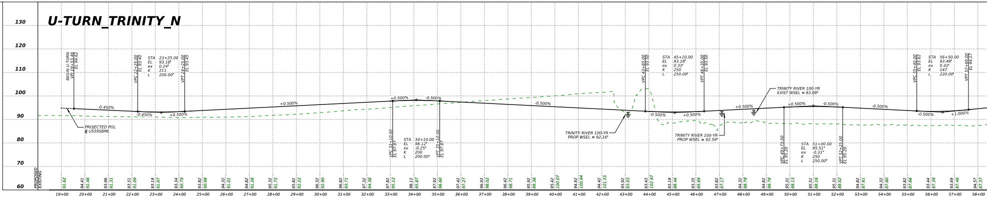
110
100
90
80
70
60


N_FM223_UTURN
BEGIN U-TURN
VPI 0+25.67
EL 142.95
END U-TURN
VPI 3+76.39
EL 141.20
-0.300%
-1.400%
STA 3+12.73
EL 142.02'
ex -0.07'
K 45
L 50.00'
VPC 2+87.73
EL 142.17
VPT 3+37.73
EL 141.74
PROPOSED
EXISTING
142.99
142.95
142.73
143.02
142.43
142.09
142.11
141.49
141.20
140.69
0+00
1+00
2+00
3+00
4+00
5+00
6+00
7+00
180
170
160
150
140
130
120
110


END U-TURN
VPT 46+10.07
EL 93.78
+0.500%
PROJECTED PGL
℄ US59SBFR
92.73
91.49
93.23
91.64
93.73
91.33
44+00
45+00
46+00
47+00
120
110
100
90
80
70
60
50


U-TURN_TRINITY_N
BEGIN U-TURN
VPI 19+53.46
EL 94.62
VPC 22+25.00
EL 93.40
STA 23+25.00
EL 93.18'
ex 0.24'
K 211
L 200.00'
VPT 24+25.00
EL 93.45
-0.450%
-0.450%
+0.500%
+0.500%
PROJECTED PGL
℄ US59SBML
+0.500%
-0.500%
VPC 33+10.00
EL 97.87
STA 34+10.00
EL 98.12'
ex -0.25'
K 200
L 200.00'
VPT 35+10.00
EL 97.87
-0.500%
-0.500%
TRINITY RIVER 100-YR
PROP WSEL = 92.16'
VPC 43+85.00
EL 93.50
STA 45+10.00
EL 93.18'
ex 0.31'
K 250
L 250.00'
VPT 46+35.00
EL 93.50
-0.500%
+0.500%
TRINITY RIVER 100-YR
PROP WSEL = 92.59'
+0.500%
TRINITY RIVER 100-YR
EXIST WSEL = 93.09'
+0.500%
-0.500%
VPC 49+75.00
EL 95.20
STA 51+00.00
EL 95.51'
ex -0.31'
K 250
L 250.00'
VPT 52+25.00
EL 95.20
-0.500%
VPC 55+40.00
EL 93.62
STA 56+50.00
EL 93.48'
ex 0.41'
K 147
L 220.00'
VPT 57+60.00
EL 94.17
-0.500%
+1.000%
PROPOSED
EXISTING
91.62
94.41
91.46
93.96
91.31
93.51
91.09
93.19
91.07
93.34
90.79
93.82
90.98
94.32
91.01
94.82
91.26
95.32
91.75
95.82
92.22
96.32
92.90
96.82
93.71
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97.92
96.60
97.42
97.27
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98.02
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95.92
99.38
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100.07
94.92
100.94
94.42
101.55
93.92
93.03
93.43
102.97
93.19
88.46
93.35
89.69
93.82
87.17
94.32
88.79
94.82
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88.02
94.82
87.61
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87.60
93.82
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22+00
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26+00
27+00
28+00
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30+00
31+00
32+00
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35+00
36+00
37+00
38+00
39+00
40+00
41+00
42+00
43+00
44+00
45+00
46+00
47+00
48+00
49+00
50+00
51+00
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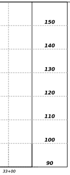
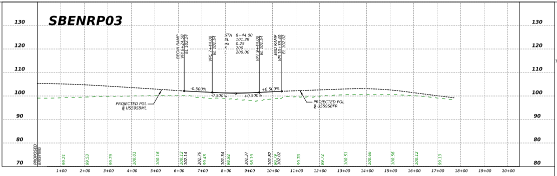
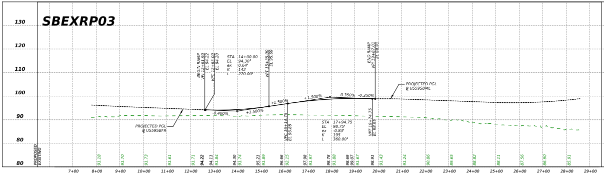
100
90
80
70
60


150
140
130
120
110
100
90
33+00

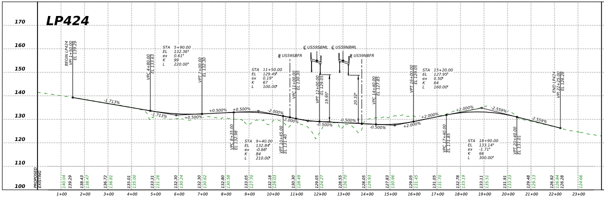
SBENRP03

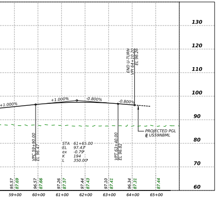

BEGIN RAMP VPI 6+24.58 EL 102.14
VPC 7+44.00 EL 101.54
STA 8+44.00
EL 101.29'
ex 0.25'
K 200
L 200.00'
VPT 9+44.00 EL 101.54
END RAMP VPI 10+39.40 EL 102.02
-0.500%
+0.500%
-0.500%
+0.500%
PROJECTED PGL ℄ US59SBML
PROJECTED PGL ℄ US59SBFR
PROPOSED
EXISTING
130
120
110
100
90
80
70
1+00
2+00
3+00
4+00
5+00
6+00
7+00
8+00
9+00
10+00
11+00
12+00
13+00
14+00
15+00
16+00
17+00
18+00
19+00
20+00
99.21
99.53
99.79
100.01
100.16
102.12
100.14
101.76
99.45
101.34
98.92
101.37
98.19
101.82
98.79
102.02
99.70
99.72
100.51
100.66
100.56
100.12
99.13

SBEXRP03

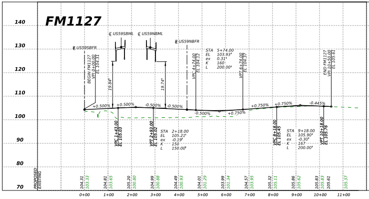

BEGIN RAMP VPI 12+61.90 EL 94.22
VPC 12+65.00 EL 94.20
STA 14+00.00
EL 94.30'
ex 0.64'
K 142
L 270.00'
VPT 15+35.00 EL 95.69
END RAMP VPI 19+87.01 EL 98.91
PROJECTED PGL ℄ US59SBML
PROJECTED PGL ℄ US59SBFR
-0.400%
+1.500%
+1.500%
+1.500%
-0.350%
-0.350%
VPC 16+14.75 EL 96.88
STA 17+94.75
EL 98.75'
ex -0.83'
K 195
L 360.00'
VPT 19+74.75 EL 98.95
PROPOSED
EXISTING
130
120
110
100
90
80
70
7+00
8+00
9+00
10+00
11+00
12+00
13+00
14+00
15+00
16+00
17+00
18+00
19+00
20+00
21+00
22+00
23+00
24+00
25+00
26+00
27+00
28+00
29+00
91.18
91.70
91.73
91.61
91.71
94.22
94.11
91.84
94.30
91.74
95.21
91.89
96.66
92.15
97.98
91.97
98.78
91.88
98.69
99.07
91.67
98.91
91.43
91.24
90.86
89.65
88.82
88.11
87.56
86.90
85.91

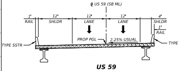
LP424


BEGIN LP424 VPI 1+50.00 EL 139.29
VPC 4+80.00 EL 133.63
STA 5+90.00
EL 132.36'
ex 0.61'
K 99
L 220.00'
VPT 7+00.00 EL 132.30
℄ US59SBFR
℄ US59SBML
℄ US59NBML
℄ US59NBFR
STA 11+50.00
EL 129.49'
ex 0.19'
K 67
L 100.00'
VPC 11+00.00 EL 130.30
VPT 12+00.00 EL 129.05
19.95'
20.32'
VPC 14+40.00 EL 127.85
VPT 16+00.00 EL 129.05
STA 15+20.00
EL 127.95'
ex 0.50'
K 64
L 160.00'
END LP424 VPI 22+25.00 EL 126.28
-1.713%
-1.713%
+0.500%
+0.500%
+0.500%
-2.000%
-2.000%
-0.500%
-0.500%
-0.500%
+2.000%
+2.000%
+2.000%
-2.559%
-2.559%
VPC 8+35.00 EL 132.98
STA 9+40.00
EL 132.84'
ex -0.66'
K 84
L 210.00'
VPT 10+45.00 EL 131.40
VPC 17+40.00 EL 131.85
STA 18+90.00
EL 133.14'
ex -1.71'
K 66
L 300.00'
VPT 20+40.00 EL 131.01
PROPOSED
EXISTING
170
160
150
140
130
120
110
100
1+00
2+00
3+00
4+00
5+00
6+00
7+00
8+00
9+00
10+00
11+00
12+00
13+00
14+00
15+00
16+00
17+00
18+00
19+00
20+00
21+00
22+00
23+00
140.04
139.29
138.43
138.47
136.72
136.81
135.01
135.00
133.31
131.26
132.30
130.24
132.30
130.62
132.80
130.58
133.05
127.70
132.18
129.03
130.30
128.49
129.05
124.27
128.55
126.70
128.05
129.93
127.83
130.96
129.05
131.45
131.05
131.70
132.78
133.19
133.11
135.51
131.91
133.33
129.48
129.13
126.92
126.84
126.28
124.66

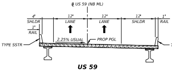

END U-TURN VPI 64+10.20 EL 96.26
+1.000%
+1.000%
-0.800%
-0.800%
PROJECTED PGL ℄ US59NBML
VPC 59+90.00 EL 96.47
STA 61+65.00
EL 97.43'
ex -0.79'
K 194
L 350.00'
VPT 63+40.00 EL 96.82
130
120
110
100
90
80
70
60
59+00
60+00
61+00
62+00
63+00
64+00
65+00
95.57
87.69
96.57
87.66
97.26
87.57
97.44
87.43
97.10
87.41
96.34
87.31
87.44

FM1127

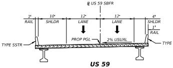

℄ US59SBFR
℄ US59SBML
℄ US59NBML
℄ US59NBFR
BEGIN FM1127 VPI 0+00.00 EL 104.31
19.84'
19.74'
VPC 4+74.00 EL 104.12
STA 5+74.00
EL 103.93'
ex 0.31'
K 160
L 200.00'
VPT 6+74.00 EL 104.37
END FM1127 VPI 10+50.00 EL 105.61
+0.500%
+0.500%
-0.500%
-0.500%
-0.500%
+0.750%
+0.750%
+0.750%
-0.445%
VPC 1+43.00 EL 105.03
VPT 2+93.00 EL 105.02
STA 2+18.00
EL 105.21'
ex -0.19'
K 150
L 150.00'
VPC 8+18.00 EL 105.45
STA 9+18.00
EL 105.90'
ex -0.30'
K 167
L 200.00'
VPT 10+18.00 EL 105.76
PROPOSED
EXISTING
140
130
120
110
100
90
80
70
0+00
1+00
2+00
3+00
4+00
5+00
6+00
7+00
8+00
9+00
10+00
11+00
104.31
103.33
104.81
105.65
105.20
100.80
104.99
100.88
104.49
100.93
104.01
101.29
103.99
101.34
104.57
103.95
105.32
105.11
105.86
105.62
105.83
105.83
105.61
105.37


℄ US 59 (SB ML)
1'
12'
12'
12'
4'
RAIL
SHLDR
LANE
LANE
SHLDR
1'
RAIL
PROP PGL
2.25% USUAL
TYPE SSTR
TYPE SSTR

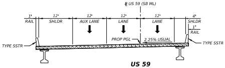
US 59
PROPOSED TYPICAL SECTION
SBML BRIDGE TYPICAL SECTION
STA 2330+85.00 - 2356+35.00
STA 2420+13.00 - 2423+58.00
STA 2499+22.00 - 2502+82.00
STA 2553+04.49 - 2576+79.49


℄ US 59 (NB ML)
4'
12'
12'
12'
1'
SHLDR
1'
RAIL
LANE
LANE
SHLDR
RAIL
2.25% USUAL
PROP PGL
TYPE SSTR

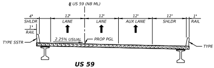
US 59
PROPOSED TYPICAL SECTION
NBML BRIDGE TYPICAL SECTION
STA 1331+20.00 - 1359+90.00
STA 1364+28.00 - 1378+68.00
STA 1420+20.00 - 1423+65.00
STA 1499+28.00 - 1502+88.00
STA 1553+09.39 - 1576+84.39


℄ US 59 SBFR
1'
10'
12'
12'
4'
RAIL
SHLDR
LANE
LANE
SHLDR
1'
RAIL
PROP PGL
2% USUAL
TYPE SSTR
TYPE SSTR

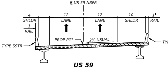
US 59
PROPOSED TYPICAL SECTION
SBFR BRIDGE TYPICAL SECTION
STA 4257+95.00 - 4267+55.00
STA 4381+90.00 - 4384+00.00
STA 4414+32.00 - 4417+92.00


℄ US 59 (SB ML)
1'
12'
12'
12'
12'
4'
RAIL
SHLDR
AUX LANE
LANE
LANE
SHLDR
1'
RAIL
PROP PGL
2.25% USUAL
TYPE SSTR
TYPE SSTR

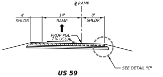
US 59
PROPOSED TYPICAL SECTION
SBML BRIDGE TYPICAL SECTION - ACCEL/DECEL
STA 2367+00.00 - 2374+20.00
STA 2467+30.00 - 2469+40.00


℄ US 59 (NB ML)
4'
12'
12'
12'
12'
1'
SHLDR
1'
RAIL
LANE
LANE
AUX LANE
SHLDR
RAIL
2.25% USUAL
PROP PGL
TYPE SSTR
TYPE SSTR

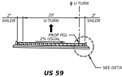
US 59
PROPOSED TYPICAL SECTION
NBML BRIDGE TYPICAL SECTION - ACCEL/DECEL
STA 1468+45.00 - 1470+55.00


℄ US 59 NBFR
4'
12'
12'
10'
1'
SHLDR
1'
RAIL
LANE
LANE
SHLDR
RAIL
PROP PGL
2% USUAL
TYPE SSTR

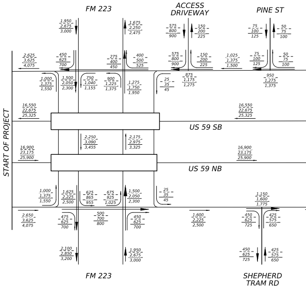
US 59
PROPOSED TYPICAL SECTION
NBFR BRIDGE TYPICAL SECTION
STA 3214+50.00 - 3228+25.00
STA 3235+30.00 - 3250+55.00
STA 3340+05.00 - 3342+15.00
STA 3370+40.00 - 3374+00.00

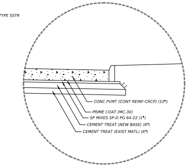

℄ RAMP
4'
14'
8'
SHLDR
RAMP
SHLDR
PROP PGL
2% USUAL
SEE DETAIL "C"

US 59
PROPOSED TYPICAL SECTION
ENTRANCE/EXIT RAMP


℄ U-TURN
2'
20'
2'
SHLDR
U-TURN
SHLDR
PROP PGL
2% USUAL
SEE DETAIL "B"

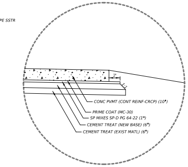
US 59
PROPOSED TYPICAL SECTION
U-TURN


FM 223
ACCESS DRIVEWAY
PINE ST
START OF PROJECT
US 59 SB
US 59 NB
FM 223
SHEPHERD TRAM RD
1,950
2,675
3,000
1,675
2,250
2,475
575
800
900
150
200
225
75
100
125
50
75
100
2,625
3,625
4,075
450
625
700
275
400
450
400
500
525
1,025
1,375
1,500
1,000
1,375
1,550
1,500
2,050
2,300
750
1,040
1,155
900
1,225
1,375
1,275
1,750
1,950
25
35
45
875
1,175
1,275
950
1,275
1,375
16,550
22,675
25,325
16,550
22,675
25,325
2,250
3,090
3,455
2,175
2,975
3,325
16,900
23,175
25,900
16,900
23,175
25,900
1,000
1,375
1,550
1,625
2,225
2,500
625
865
955
675
925
1,025
1,500
2,050
2,300
1,150
1,600
1,775
2,650
3,625
4,075
475
625
700
500
700
800
450
625
700
1,600
2,225
2,500
450
625
725
425
575
650
2,100
2,850
3,200
1,950
2,675
3,000


TYPE SSTR
1:1
CONC PVMT (CONT REINF-CRCP) (10")
PRIME COAT (MC-30)
SP MIXES SP-D PG 64-22 (1")
CEMENT TREAT (NEW BASE) (6")
CEMENT TREAT (EXIST MATL) (6")

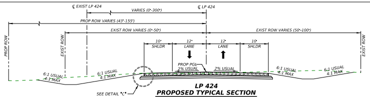
DETAIL "B"

PRELIMINARY PAVEMENT STRUCTURE USED
FOR ESTIMATING PURPOSES ONLY.

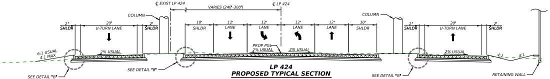

PE SSTR
1"
1:1
CONC PVMT (CONT REINF-CRCP) (10")
PRIME COAT (MC-30)
SP MIXES SP-D PG 64-22 (1")
CEMENT TREAT (NEW BASE) (6")
CEMENT TREAT (EXIST MATL) (6")

DETAIL "C"

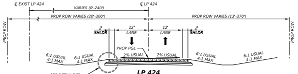
PRELIMINARY PAVEMENT STRUCTURE USED
FOR ESTIMATING PURPOSES ONLY.


℄ EXIST LP 424
℄ LP 424
VARIES (0'-300')
PROP ROW VARIES (43'-155')
EXIST ROW VARIES (0'-50')
EXIST ROW VARIES (50'-100')
PROP ROW
EXIST ROW
10' SHLDR
12' LANE
12' LANE
10' SHLDR
PROP PGL
2% USUAL
2% USUAL
6:1 USUAL 4:1 MAX
6:1 USUAL 4:1 MAX
6:1 USUAL 4:1 MAX
6:1 USUAL 4:1 MAX
EXIST ROW
SEE DETAIL "C"

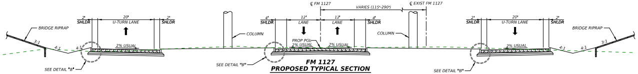
LP 424
PROPOSED TYPICAL SECTION
LAKE POOL 424-WEST OF US 59


℄ EXIST LP 424
℄ LP 424
VARIES (240'-300')
COLUMN
COLUMN
2' SHLDR
20' U-TURN LANE
2' SHLDR
10' SHLDR
12' LANE
12' LANE
12' LANE
12' LANE
10' SHLDR
2' SHLDR
20' U-TURN LANE
2' SHLDR
PROP PGL
2% USUAL
2% USUAL
2% USUAL
2% USUAL
6:1 USUAL 4:1 MAX
4:1
4:1
SEE DETAIL "B"
SEE DETAIL "B"
SEE DETAIL "B"
RETAINING WALL

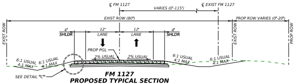
LP 424
PROPOSED TYPICAL SECTION
LAKE POOL 424-UNDER US 59 BRIDGE


℄ EXIST LP 424
℄ LP 424
VARIES (0'-240')
PROP ROW VARIES (20'-300')
PROP ROW VARIES (13'-370')
PROP ROW
PROP ROW
2' SHLDR
12' LANE
12' LANE
2' SHLDR
PROP PGL
2% USUAL
2% USUAL
6:1 USUAL 4:1 MAX
6:1 USUAL 4:1 MAX
6:1 USUAL 4:1 MAX
6:1 USUAL 4:1 MAX
SEE DETAIL "C"

LP 424
PROPOSED TYPICAL SECTION
LAKE POOL 424-EAST OF US 59


℄ FM 1127
℄ EXIST FM 1127
VARIES (115'-290')
BRIDGE RIPRAP
2' SHLDR
20' U-TURN LANE
2' SHLDR
COLUMN
4' SHLDR
12' LANE
12' LANE
4' SHLDR
COLUMN
2' SHLDR
20' U-TURN LANE
2' SHLDR
BRIDGE RIPRAP
PROP PGL
2% USUAL
2% USUAL
2% USUAL
2% USUAL
3:1
4:1
4:1
4:1
4:1
3:1
SEE DETAIL "B"
SEE DETAIL "B"
SEE DETAIL "B"

FM 1127
PROPOSED TYPICAL SECTION
FM 1127-UNDER US 59 BRIDGE


℄ FM 1127
℄ EXIST FM 1127
VARIES (0'-115')
EXIST ROW (80')
PROP ROW VARIES (0'-20')
EXIST ROW
EXIST ROW
PROP ROW
4' SHLDR
12' LANE
12' LANE
4' SHLDR
PROP PGL
2% USUAL
2% USUAL
6:1 USUAL 4:1 MAX
6:1 USUAL 4:1 MAX
6:1 USUAL 4:1 MAX
6:1 USUAL 4:1 MAX
SEE DETAIL "C"

FM 1127
PROPOSED TYPICAL SECTION
FM 1127-EAST OF US 59

SUPERELEVATION TABLES

SUPERELEVATION TABLE

CURVE DATA (NBML)	BEGIN TRANSITION STATION	BEGIN X-SLOPE LEFT	BEGIN X-SLOPE RIGHT	END TRANSITION STATION	END X-SLOPE LEFT	END X-SLOPE RIGHT
PC STA 1312+59.15	1312+19.00	2.25%		1312+69.00	3.00%	
	1312+19.00		-2.25%	1312+69.00		-3.00%
PT STA 1355+75.21	1355+70.00	3.00%		1356+90.00	0.50%	
	1355+70.00		-3.00%	1356+90.00		-0.50%
PC STA 1357+68.66	1356+90.00	0.50%		1358+25.00	-2.25%	
	1356+90.00		-0.50%	1358+25.00		2.25%
PT STA 1377+94.78	1377+48.00	-2.25%		1379+98.00	2.25%	
	1377+48.00		2.25%	1379+98.00		-2.25%
PC STA 1582+05.91	1579+66.00	2.25%		1582+66.00	-4.00%	
	1579+66.00		-2.25%	1582+66.00		4.00%
PT STA 1606+50.71	1605+91.00	-4.00%		1606+91.00	-2.00%	
	1605+91.00		4.00%	1608+91.00		-2.00%

SUPERELEVATION TABLE

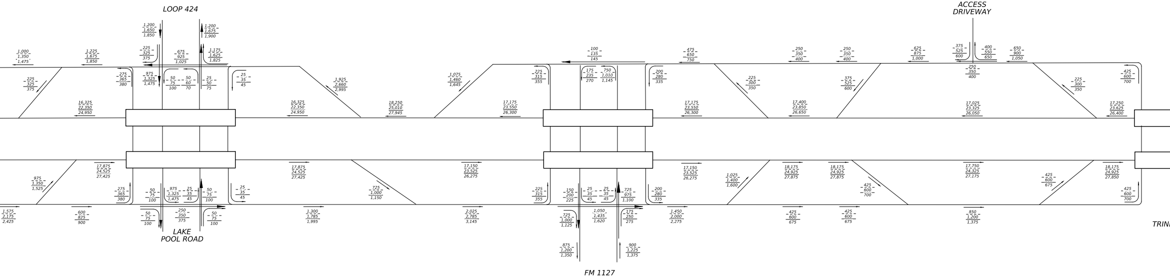
CURVE DATA (SBML)	BEGIN TRANSITION STATION	BEGIN X-SLOPE LEFT	BEGIN X-SLOPE RIGHT	END TRANSITION STATION	END X-SLOPE LEFT	END X-SLOPE RIGHT
PC STA 2312+79.92	2310+64.00	-2.25%		2313+34.00	3.20%	
	2310+64.00		2.25%	2313+34.00		-3.20%
PT STA 2346+00.69	2345+55.00	3.20%		2349+15.00	-2.25%	
	2345+55.00		-3.20%	2349+15.00		2.25%
PC STA 2582+79.30	2581+99.00	-2.25%		2582+99.00	-4.00%	
	2581+99.00		2.25%	2582+99.00		4.00%
PT STA 2607+05.51	2606+86.00	-4.00%		2607+86.00	-2.00%	
	2606+86.00		4.00%	2609+71.03		-2.00%

SUPERELEVATION TABLE

CURVE DATA (NBFR)	BEGIN TRANSITION STATION	BEGIN X-SLOPE LEFT	BEGIN X-SLOPE RIGHT	END TRANSITION STATION	END X-SLOPE LEFT	END X-SLOPE RIGHT
PC STA 3188+37.82	3188+30.00	2.00%		3188+40.00	2.20%	
	3188+30.00		-2.00%	3188+40.00		-2.20%
PT STA 3203+87.26	3203+80.00	2.20%		3204+30.00	0.50%	
	3203+80.00		-2.20%	3204+30.00		-0.50%
PC STA 3207+33.41	3206+65.00	0.50%		3207+50.00	4.00%	
	3206+65.00		-0.50%	3207+50.00		-4.00%
PT STA 3216+41.96	3217+00.00	4.00%		3218+25.00	2.00%	
	3217+00.00		-4.00%	3218+25.00		-2.00%
PC STA 3222+25.20	3219+50.00	2.00%		3222+00.00	-4.00%	
	3219+50.00		-2.00%	3222+00.00		4.00%
PT STA 3226+39.99	3225+75.00	-4.00%		3228+25.00	2.00%	
	3225+75.00		4.00%	3228+25.00		-2.00%
	3291+75.00	2.00%		3292+15.00	0.50%	
	3291+75.00		-2.00%	3292+15.00		-0.50%
	3293+85.00	0.50%		3294+25.00	2.00%	
	3293+85.00		-0.50%	3294+25.00		-2.00%

SUPERELEVATION TABLE

CURVE DATA (SBFR)	BEGIN TRANSITION STATION	BEGIN X-SLOPE LEFT	BEGIN X-SLOPE RIGHT	END TRANSITION STATION	END X-SLOPE LEFT	END X-SLOPE RIGHT
PC STA 4227+39.36	4226+19.00	-2.00%		4227+39.00	3.00%	
	4226+19.00		2.00%	4227+39.00		-3.00%
	4233+62.00	3.00%		4233+92.00	2.00%	
	4233+62.00		-3.00%	4233+92.00		-2.00%
	4335+68.00	-2.00%		4336+08.00	-0.50%	
	4335+68.00		2.00%	4336+08.00		0.50%
	4337+78.00	-0.50%		4338+18.00	-2.00%	
	4337+78.00		-0.50%	4338+18.00		2.00%


LOOP 424
LAKE POOL ROAD
FM 1127
ACCESS DRIVEWAY
TRIN
1,200 1,650 1,850
1,200 1,675 1,900
1,000 1,350 1,475
1,225 1,675 1,850
225 325 375
675 925 1,025
1,175 1,625 1,825
225 325 375
275 365 380
975 1,325 1,475
50 75 100
50 60 70
25 50 75
25 35 45
1,925 2,660 2,995
16,325 22,350 24,950
16,325 22,350 24,950
18,250 25,010 27,945
17,875 24,525 27,425
17,875 24,525 27,425
975 1,350 1,525
275 365 380
50 75 100
975 1,325 1,475
25 35 45
50 75 100
25 35 45
725 1,000 1,150
1,575 2,175 2,425
600 825 900
50 75 100
250 350 375
50 75 100
1,300 1,785 1,995
1,075 1,460 1,645
225 315 355
100 135 145
175 235 270
750 1,010 1,145
200 280 335
475 650 750
225 300 350
17,175 23,550 26,300
17,175 23,550 26,300
17,150 23,525 26,275
17,150 23,525 26,275
225 315 355
150 200 225
25 35 45
25 35 45
725 975 1,100
200 280 335
1,025 1,400 1,600
2,025 2,785 3,145
725 1,000 1,125
1,050 1,435 1,620
175 250 275
1,450 2,000 2,275
875 1,200 1,350
900 1,225 1,375
250 350 400
250 350 400
625 875 1,000
375 525 600
400 550 650
650 900 1,050
250 350 400
225 300 350
375 525 600
225 300 350
425 600 700
17,400 23,850 26,650
17,025 23,325 26,050
17,250 23,625 26,400
18,175 24,925 27,875
18,175 24,925 27,875
17,750 24,325 27,175
18,175 24,925 27,850
425 600 700
425 600 675
425 600 700
425 600 675
425 600 675
850 1,200 1,375

SUPERELEVATION TABLES (CONT.)

SUPERELEVATION TABLE

CURVE DATA (SBENRP01)	BEGIN TRANSITION STATION	BEGIN X-SLOPE LEFT	BEGIN X-SLOPE RIGHT	END TRANSITION STATION	END X-SLOPE LEFT	END X-SLOPE RIGHT
	17+90.66	-2.25%		19+45.00	3.00%	
	17+90.66		2.25%	19+45.00		-3.00%

SUPERELEVATION TABLE

CURVE DATA (SBEXRP01)	BEGIN TRANSITION STATION	BEGIN X-SLOPE LEFT	BEGIN X-SLOPE RIGHT	END TRANSITION STATION	END X-SLOPE LEFT	END X-SLOPE RIGHT
PC STA 12+23.16	10+89.50	2.00%		12+09.50	3.20%	
	10+89.50		-2.00%	12+09.50		-3.20%
PT STA 15+60.84	15+31.00	3.20%		16+81.00	-2.25%	
	15+31.00		-3.20%	16+81.00		2.25%

SUPERELEVATION TABLE

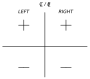
CURVE DATA (U-TURN TRINITY N)	BEGIN TRANSITION STATION	BEGIN X-SLOPE LEFT	BEGIN X-SLOPE RIGHT	END TRANSITION STATION	END X-SLOPE LEFT	END X-SLOPE RIGHT
PT STA 28+37.43	28+24.00	4.00%		28+90.00	2.00%	
	28+24.00		-4.00%	28+90.00		-2.00%
PC STA 51+78.95	50+23.00	2.00%		52+18.00	-4.00%	
	50+23.00		-2.00%	52+18.00		4.00%

SUPERELEVATION TABLE

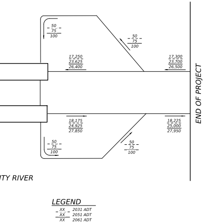
CURVE DATA (LP424)	BEGIN TRANSITION STATION	BEGIN X-SLOPE LEFT	BEGIN X-SLOPE RIGHT	END TRANSITION STATION	END X-SLOPE LEFT	END X-SLOPE RIGHT
PC STA 5+83.76	5+33.00	-2.00%		6+06.00	2.00%	
	5+33.00		-2.00%	6+06.00		-2.00%
PT STA 10+12.34	9+99.00	2.00%		10+44.00	-0.50%	
	9+99.00		-2.00%	10+44.00		0.50%
	11+35.00	-0.50%		11+80.00	-2.00%	
	11+35.00		0.50%	11+80.00		-2.00%
	12+90.00	-2.00%		13+30.00	-0.50%	
	12+70.00		-2.00%	13+30.00		0.50%
PC STA 14+78.07	14+54.00	-0.50%		14+84.00	-2.00%	
	14+54.00		0.50%	14+84.00		2.00%
PT STA 18+42.73	18+20.00	-2.00%		18+95.00	-2.00%	
	18+20.00		2.00%	18+95.00		-2.00%

SUPERELEVATION TABLE

CURVE DATA (FM 1127)	BEGIN TRANSITION STATION	BEGIN X-SLOPE LEFT	BEGIN X-SLOPE RIGHT	END TRANSITION STATION	END X-SLOPE LEFT	END X-SLOPE RIGHT
	0+16.00	-0.50%		0+48.00	-2.00%	
	0+16.00		0.50%	0+70.00		-2.00%
	3+30.00	-2.00%		3+70.00	-0.50%	
	3+10.00		-2.00%	3+70.00		0.50%
PC STA 5+44.14	4+63.00	-0.50%		5+79.00	-6.00%	
	4+63.00		0.50%	5+79		6.00%
PT STA 8+05.37	7+71.00	-6.00%		8+56.00	-2.00%	
	7+71.00		6.00%	9+41.00		-2.00%



CROSS SLOPE SIGN CONVENTION



50
75
100
50
75
100
17,250
23,625
26,400
17,300
23,700
26,500
18,175
24,925
27,850
18,225
25,000
27,950
50
75
100
50
75
100
END OF PROJECT
ITY RIVER
LEGEND
XX 2031 ADT
XX 2051 ADT
XX 2061 ADT

US59_CL Alignment

	Station	Northing	Easting
POT	228+99.180 R1	10182258.19	3977666.76
PC	271+48.467 R1	10186151.03	3979370.369
Tangential Direction:	N23°38'07.7"E		
Tangential Length:	4249.287		
Curve ID: Curve US59CL-1			
PC	271+48.467 R1	10186151.03	3979370.369
PI	283+47.378 R1	10187249.37	3979851.032
CC		10188448.28	3974121.032
PT	295+12.189 R1	10188448.28	3979851.032
Radius:	5730		
Delta:	23°38'07.7" Left		
Degree of Curvature (Arc):	00°59'59.7"		
Length:	2363.721		
Tangent:	1198.911		
PT	295+12.189 R1	10188448.28	3979851.032
PC	312+91.539 R1	10190227.63	3979851.032
Tangential Direction:	N00°00'00.0"W		
Tangential Length:	1779.351		
Curve ID: Curve US59CL-2			
PC	312+91.539 R1	10190227.63	3979851.032
PI	329+69.605 R1	10191905.69	3979851.032
CC		10190227.63	3986678.032
PT	345+82.430 R1	10193392.54	3980628.963
Radius:	6827		
Delta:	27°37'08.0" Right		
Degree of Curvature (Arc):	00°50'21.3"		
Length:	3290.891		
Tangent:	1678.065		
PT	345+82.430 R1	10193392.54	3980628.963
PC	359+30.846 R1	10194587.31	3981254.073
Tangential Direction:	N27°37'08.0"E		
Tangential Length:	1348.416		
Curve ID: Curve US59CL-3			
PC	359+30.846 R1	10194587.31	3981254.073
PI	361+40.656 R1	10194773.21	3981351.338
CC		10202931.9	3965305.158
PT	363+50.446 R1	10194961.33	3981444.243
Radius:	18000		
Delta:	01°20'08.3" Left		
Degree of Curvature (Arc):	00°19'05.9"		
Length:	419.6		
Tangent:	209.809		
PT	363+50.446 R1	10194961.33	3981444.243
PC	399+50.342 R1	10198189.05	3983038.31
Tangential Direction:	N26°16'59.7"E		
Tangential Length:	3599.896		
Curve ID: Curve US59CL-4			
PC	399+50.342 R1	10198189.05	3983038.31
PI	401+95.676 R1	10198409.02	3983146.947
CC		10190218.49	3999177.396
PT	404+40.980 R1	10198625.95	3983261.538
Radius:	18000		
Delta:	01°33'42.3" Right		
Degree of Curvature (Arc):	00°19'05.9"		
Length:	490.638		
Tangent:	245.334		
PT	404+40.980 R1	10198625.95	3983261.538
PC	409+40.980 R1	10199068.06	3983495.079
Tangential Direction:	N27°50'42.0"E		
Tangential Length:	500		
Curve ID: Curve US59CL-5			
PC	409+40.980 R1	10199068.06	3983495.079
PI	411+86.315 R1	10199284.99	3983609.67
CC		10207475.52	3967579.221
PT	414+31.619 R1	10199504.96	3983718.306
Radius:	18000		
Delta:	01°33'42.3" Left		
Degree of Curvature (Arc):	00°19'05.9"		
Length:	490.638		
Tangent:	245.334		
PT	414+31.619 R1	10199504.96	3983718.306
PC	429+31.619 R1	10200849.88	3984382.52
Tangential Direction:	N26°16'59.7"E		
Tangential Length:	1500		
Curve ID: Curve US59CL-6			
PC	429+31.619 R1	10200849.88	3984382.52
PI	431+76.953 R1	10201069.85	3984491.156
CC		10208820.45	3968243.434
PT	434+22.257 R1	10201292.7	3984593.757
Radius:	18000		
Delta:	01°33'42.3" Left		
Degree of Curvature (Arc):	00°19'05.9"		
Length:	490.638		
Tangent:	245.334		
PT	434+22.257 R1	10201292.7	3984593.757
PC	439+22.257 R1	10201746.88	3984802.861
Tangential Direction:	N24°43'17.4"E		
Tangential Length:	500		
Curve ID: Curve US59CL-7			
PC	439+22.257 R1	10201746.88	3984802.861
PI	441+67.592 R1	10201969.73	3984905.462
CC		10194219.13	4001153.184
PT	444+12.896 R1	10202189.7	3985014.098
Radius:	18000		
Delta:	01°33'42.3" Right		
Degree of Curvature (Arc):	00°19'05.9"		
Length:	490.638		
Tangent:	245.334		
PT	444+12.896 R1	10202189.7	3985014.098
PC	501+53.509 R1	10207336.82	3987556.095
Tangential Direction:	N26°16'59.7"E		
Tangential Length:	5740.613		
Curve ID: Curve US59CL-8			
PC	501+53.509 R1	10207336.82	3987556.095
PI	505+29.316 R1	10207673.78	3987722.506
CC		10199366.26	4003695.18
PT	509+05.015 R1	10208003.49	3987902.836
Radius:	18000		
Delta:	02°23'31.6" Right		
Degree of Curvature (Arc):	00°19'05.9"		
Length:	751.506		
Tangent:	375.808		
PT	509+05.015 R1	10208003.49	3987902.836
PC	519+05.015 R1	10208880.85	3988382.682
Tangential Direction:	N28°40'31.4"E		
Tangential Length:	1000		
Curve ID: Curve US59CL-9			
PC	519+05.015 R1	10208880.85	3988382.682
PI	521+89.929 R1	10209130.82	3988519.397
CC		10217518.08	3972590.338
PT	524+74.795 R1	10209384.99	3988648.132
Radius:	18000		
Delta:	01°48'49.2" Left		
Degree of Curvature (Arc):	00°19'05.9"		
Length:	569.78		
Tangent:	284.914		
PT	524+74.795 R1	10209384.99	3988648.132
PC	582+35.654 R1	10214524.25	3991251.111
Tangential Direction:	N26°51'42.2"E		
Tangential Length:	5760.859		
Curve ID: Curve US59CL-10			
PC	582+35.654 R1	10214524.25	3991251.111
PI	594+75.815 R1	10215630.6	3991811.463
CC		10216891.88	3986576.508
PT	606+71.162 R1	10216870.75	3991816.466
Radius:	5240		
Delta:	26°37'50.2" Left		
Degree of Curvature (Arc):	01°05'36.4"		
Length:	2435.508		
Tangent:	1240.161		
PT	606+71.162 R1	10216870.75	3991816.466
POT	609+90.499 R1	10217190.08	3991817.754
Tangential Direction:	N00°13'52.0"E		
Tangential Length:	319.337		

SBENRP01 Alignment

	Station	Northing	Easting
POT	10+00.000 R1	10189042.38	3979771.03
PC	11+00.000 R1	10189142.38	3979771.03
Tangential Direction:	N00°00'00.000"W		
Tangential Length:	100		
Curve ID: Curve SBENRP01-1			
PC	11+00.000 R1	10189142.38	3979771.03
PI	14+18.827 R1	10189461.21	3979771.03
CC		10189142.38	3970641.03
PT	17+37.394 R1	10189779.26	3979748.79
Radius:	9130		
Delta:	4.000° Left		
Degree of Curvature (Arc):	0.628°		
Length:	637.394		
Tangent:	318.827		
PT	17+37.394 R1	10189779.26	3979748.79
PC	21+84.718 R1	10190225.49	3979717.59
Tangential Direction:	N04°00'00.000"W		
Tangential Length:	447.324		
Curve ID: Curve SBENRP01-2			
PC	21+84.718 R1	10190225.49	3979717.59
PI	25+02.908 R1	10190542.91	3979695.39
CC		10190504.52	3983707.84
PT	28+19.761 R1	10190859.84	3979723.66
Radius:	4000		
Delta:	9.096° Right		
Degree of Curvature (Arc):	1.432°		
Length:	635.042		
Tangent:	318.19		

SBEXRP01 Alignment

	Station	Northing	Easting
POT	9+50.000 R1	10193721.79	3980592.437
PC	12+23.156 R1	10193963.82	3980719.069
Tangential Direction:	N27°37'07.992"E		
Tangential Length:	273.156		
Curve ID: Curve SBEXRP01-1			
PC	12+23.156 R1	10193963.82	3980719.069
PI	13+92.056 R1	10194113.48	3980797.369
CC		10191516.08	3985397.418
PT	15+60.840 R1	10194257.82	3980885.074
Radius:	5280		
Delta:	3.664° Right		
Degree of Curvature (Arc):	1.085°		
Length:	337.684		
Tangent:	168.9		
PT	15+60.840 R1	10194257.82	3980885.074
PC	26+27.190 R1	10195169.13	3981438.796
Tangential Direction:	N31°16'59.731"E		
Tangential Length:	1066.349		
Curve ID: Curve SBEXRP01-2			
PC	26+27.190 R1	10195169.13	3981438.796
PI	27+52.278 R1	10195276.04	3981503.751
CC		10196656.84	3978990.337
PT	28+77.208 R1	10195388.19	3981559.141
Radius:	2865		
Delta:	5.000° Left		
Degree of Curvature (Arc):	2.000°		
Length:	250.018		
Tangent:	125.089		
PT	28+77.208 R1	10195388.19	3981559.141
POT	34+73.767 R1	10195923.08	3981823.303
Tangential Direction:	N26°16'59.731"E		
Tangential Length:	596.559		

SBENRP02 Alignment

	Station	Northing	Easting
POT	10+00.000 R1	10196545.78	3982130.83
PC	11+00.000 R1	10196635.44	3982175.12
Tangential Direction:	N26°16'59.731"E		
Tangential Length:	100		
Curve ID: Curve SBENRP02-1			
PC	11+00.000 R1	10196635.44	3982175.12
PI	14+98.624 R1	10196992.85	3982351.63
CC		10200678.29	3973989.01
PT	18+96.743 R1	10197364.29	3982496.32
Radius:	9130		
Delta:	5.000° Left		
Degree of Curvature (Arc):	0.628°		
Length:	796.743		
Tangent:	398.624		
PT	18+96.743 R1	10197364.29	3982496.32
PC	22+90.404 R1	10197731.1	3982639.21
Tangential Direction:	N21°16'59.731"E		
Tangential Length:	393.662		
Curve ID: Curve SBENRP02-2			
PC	22+90.404 R1	10197731.1	3982639.21
PI	26+34.016 R1	10198051.28	3982763.94
CC		10194874.46	3989972.46
PT	29+77.191 R1	10198359.37	3982916.09
Radius:	7870		
Delta:	5.000° Right		
Degree of Curvature (Arc):	0.728°		
Length:	686.787		
Tangent:	343.612		
Element: Linear			
PT	29+77.191 R1	10198359.37	3982916.09
POT	31+83.708 R1	10198544.53	3983007.54
Tangential Direction:	N26°16'59.731"E		
Tangential Length:	206.516		

SBEXRP02 Alignment

	Station	Northing	Easting
POT	10+00.000 R1	10201157.83	3984304.85
PC	11+00.000 R1	10201247.49	3984349.13
Tangential Direction:	N26°16'59.731"E		
Tangential Length:	100		
Curve ID: Curve SBEXRP02-1			
PC	11+00.000 R1	10201247.49	3984349.13
PI	13+40.450 R1	10201463.08	3984455.61
CC		10197762.58	3991405.50
PT	15+80.751 R1	10201671.77	3984575.04
Radius:	7870		
Delta:	3.500° Right		
Degree of Curvature (Arc):	0.728°		
Length:	480.751		
Tangent:	240.45		
PT	15+80.751 R1	10201671.77	3984575.04
PC	25+84.731 R1	10202543.13	3985073.74
Tangential Direction:	N29°46'59.731"E		
Tangential Length:	1003.981		
Curve ID: Curve SBEXRP02-2			
PC	25+84.731 R1	10202543.13	3985073.74
PI	28+63.678 R1	10202785.23	3985212.30
CC		10207078.19	3977149.72
PT	31+42.451 R1	10203035.34	3985335.82
Radius:	9130		
Delta:	3.500° Left		
Degree of Curvature (Arc):	0.628°		
Length:	557.72		
Tangent:	278.947		
PT	31+42.451 R1	10203035.34	3985335.82
POT	32+42.451 R1	10203125.00	3985380.10
Tangential Direction:	N26°16'59.731"E		
Tangential Length:	100		

SBENRP03 Alignment

	Station	Northing	Easting
Curve ID: Curve SBENRP03-1			
PC	0+00.000	10204411.51	3986015.46
PI	2+51.430	10204636.95	3986126.80
CC		10207599.74	3979559.83
PT	5+02.655	10204869.60	3986222.14
Radius:	7200		
Delta:	4.000° Left		
Degree of Curvature (Arc):	0.796°		
Length:	502.655		
Tangent:	251.43		
PT	5+02.655	10204869.60	3986222.14
PC	12+23.595	10205536.70	3986495.51
Tangential Direction:	N22°16'59.731"E		
Tangential Length:	720.94		
Curve ID: Curve SBENRP03-2			
PC	12+23.595	10205536.70	3986495.51
PI	14+98.421	10205791.00	3986599.72
CC		10202552.51	3993777.78
PT	17+73.025	10206037.42	3986721.41
Radius:	7870		
Delta:	4.000° Right		
Degree of Curvature (Arc):	0.728°		
Length:	549.43		
Tangent:	274.826		

SBEXRP03 Alignment

	Station	Northing	Easting
POT	7+79.654 R1	10209507.87	3988516.45
PC	8+26.671 R1	10209549.82	3988537.69
Tangential Direction:	N26°51'42.155"E		
Tangential Length:	47.017		
Curve ID: Curve SBEXRP03-1			
PC	8+26.671 R1	10209549.82	3988537.69
PI	9+07.652 R1	10209622.06	3988574.28
CC		10208255.30	3991093.56
PT	9+88.590 R1	10209692.12	3988614.89
Radius:	2865		
Delta:	3.238° Right		
Degree of Curvature (Arc):	2.000°		
Length:	161.919		
Tangent:	80.981		
PT	9+88.590 R1	10209692.12	3988614.89
PC	25+79.270 R1	10211068.30	3989412.63
Tangential Direction:	N30°05'59.459"E		
Tangential Length:	1590.681		
Curve ID: Curve SBEXRP03-2			
PC	25+79.270 R1	10211068.30	3989412.63
PI	26+60.251 R1	10211138.36	3989453.25
CC		10212505.12	3986933.97
PT	27+41.189 R1	10211210.61	3989489.84
Radius:	2865		
Delta:	3.238° Left		
Degree of Curvature (Arc):	2.000°		
Length:	161.919		
Tangent:	80.981		
PT	27+41.189 R1	10211210.61	3989489.84
POT	28+58.039 R1	10211314.85	3989542.63
Tangential Direction:	N26°51'42.155"E		
Tangential Length:	116.85		

NBENRP01 Alignment

	Station	Northing	Easting
POT	10+00.000 R1	10183671.77	3978467.67
PC	11+00.001 R1	10183763.38	3978507.76
Tangential Direction:	N23°38'07.675"E		
Tangential Length:	100.001		
Curve ID: Curve NBENRP01-1			
PC	11+00.001 R1	10183763.38	3978507.76
PI	15+10.849 R1	10184139.77	3978672.48
CC		10187536	3969887.12
PT	19+21.177 R1	10184529.08	3978803.77
Radius:	9410		
Delta:	5.000° Left		
Degree of Curvature (Arc):	0.609°		
Length:	821.176		
Tangent:	410.849		
PT	19+21.177 R1	10184529.08	3978803.77
PC	21+09.917 R1	10184707.92	3978864.08
Tangential Direction:	N18°38'07.712"E		
Tangential Length:	188.741		
Curve ID: Curve NBENRP01-2			
PC	21+09.917 R1	10184707.92	3978864.08
PI	25+08.541 R1	10185085.64	3978991.46
CC		10181790.46	3987515.40
PT	29+06.659 R1	10185450.83	3979151.27
Radius:	9130		
Delta:	5.000° Right		
Degree of Curvature (Arc):	0.628°		
Length:	796.742		
Tangent:	398.624		
PT	29+06.659 R1	10185450.83	3979151.27
POT	30+06.659 R1	10185542.44	3979191.36
Tangential Direction:	N23°38'07.691"E		
Tangential Length:	100		

NBENRP02 Alignment

	Station	Northing
POT	10+00.000 R1	10188586.08
PC	11+00.000 R1	10188686.08
Tangential Direction:	N00°00'00.000"W	
Tangential Length:	100	
Curve ID: Curve NBENRP02-1		
PC	11+00.000 R1	10188686.08
PI	13+46.409 R1	10188932.49
CC		10188686.08
PT	15+92.706 R1	10189178.56
Radius:	9410	
Delta:	3.000° Left	
Degree of Curvature (Arc):	0.609°	
Length:	492.706	
Tangent:	246.41	
PT	15+92.706 R1	10189178.56
PC	25+24.482 R1	10190109.06
Tangential Direction:	N03°00'00.000"W	
Tangential Length:	931.775	
Curve ID: Curve NBENRP02-2		
PC	25+24.482 R1	10190109.06
PI	30+99.235 R1	10190683.03
CC		10190407.9
PT	36+70.129 R1	10191251.47
Radius:	5710	
Delta:	11.496° Right	
Degree of Curvature (Arc):	1.003°	
Length:	1145.648	
Tangent:	574.753	

NBEXRP01 Alignment

	Station	Northing
POT	10+00.000 R1	10196273.58
PC	12+24.616 R1	10196479.35
Tangential Direction:	N23°38'32.472"E	
Tangential Length:	224.616	
Curve ID: Curve NBEXRP01-1		
PC	12+24.616 R1	10196479.35
PI	13+46.737 R1	10196591.22
CC		10195330.4
PT	14+68.711 R1	10196698.51
Radius:	2865	
Delta:	4.882° Right	
Degree of Curvature (Arc):	2.000°	
Length:	244.095	
Tangent:	122.121	
PT	14+68.711 R1	10196698.51
PC	34+74.319 R1	10198460.68
Tangential Direction:	N28°31'25.990"E	
Tangential Length:	2005.608	
Curve ID: Curve NBEXRP01-2		
PC	34+74.319 R1	10198460.68
PI	35+30.346 R1	10198509.9
CC		10199828.79
PT	35+86.358 R1	10198560.14
Radius:	2865	
Delta:	2.241° Left	
Degree of Curvature (Arc):	2.000°	
Length:	112.04	
Tangent:	56.027	
PT	35+86.358 R1	10198560.14
POT	36+27.186 R1	10198596.75
Tangential Direction:	N26°16'59.731"E	
Tangential Length:	40.827	

NBENRP03 Alignment

	Station	Northing
POT	10+00.000 R1	10200835.47
PC	11+00.000 R1	10200925.13
Tangential Direction:	N26°16'59.731"E	
Tangential Length:	100	
Curve ID: Curve NBENRP03-1		
PC	11+00.000 R1	10200925.13
PI	14+78.186 R1	10201264.21
CC		10204410.04
PT	18+55.790 R1	10201617.8
Radius:	7870	
Delta:	5.502° Left	
Degree of Curvature (Arc):	0.728°	
Length:	755.79	
Tangent:	378.186	
PT	18+55.790 R1	10201617.8
PC	26+16.619 R1	10202329.13
Tangential Direction:	N20°46'51.228"E	
Tangential Length:	760.829	
Curve ID: Curve NBENRP03-2		
PC	26+16.619 R1	10202329.13
PI	30+10.662 R1	10202697.54
CC		10199419.81
PT	34+04.100 R1	10203050.84
Radius:	8200	
Delta:	5.502° Right	
Degree of Curvature (Arc):	0.699°	
Length:	787.481	
Tangent:	394.044	
PT	34+04.100 R1	10203050.84
POT	35+04.100 R1	10203140.51
Tangential Direction:	N26°16'59.731"E	
Tangential Length:	100	

NBEXRP02 Alignment

	Station	Northing
POT	10+00.000 R1	10196273.58
PC	12+24.616 R1	10196479.35
Tangential Direction:	N23°38'32.472"E	
Tangential Length:	224.616	
Curve ID: Curve NBEXRP01-1		
PC	12+24.616 R1	10196479.35
PI	13+46.737 R1	10196591.22
CC		10195330.4
PT	14+68.711 R1	10196698.51
Radius:	2865	
Delta:	4.882° Right	
Degree of Curvature (Arc):	2.000°	
Length:	244.095	
Tangent:	122.121	
PT	14+68.711 R1	10196698.51
PC	34+74.319 R1	10198460.68
Tangential Direction:	N28°31'25.990"E	
Tangential Length:	2005.608	
Curve ID: Curve NBEXRP01-2		
PC	34+74.319 R1	10198460.68
PI	35+30.346 R1	10198509.9
CC		10199828.79
PT	35+86.358 R1	10198560.14
Radius:	2865	
Delta:	2.241° Left	
Degree of Curvature (Arc):	2.000°	
Length:	112.04	
Tangent:	56.027	

Easting
3980018.032
3980018.032

3980018.032
3980018.032
3970608.032
3980005.136

3980005.136
3979956.37

3979956.37
3979926.29
3985658.545
3980011.202

Easting
3982274.785
3982364.862

3982364.862
3982413.836
3984989.393
3982472.152

3982472.152
3983429.88

3983429.88
3983456.634
3980912.639
3983481.443

3983481.443
3983499.522

Easting
3984605.153
3984649.434

3984649.434
3984816.898
3977593.067
3984951.077

3984951.077
3985221.015

3985221.015
3985360.82
3992887.556
3985535.306

3985535.306
3985579.587

Easting
3982274.785
3982364.862

3982364.862
3982413.836
3984989.393
3982472.152

3982472.152
3983429.88

3983429.88
3983456.634
3980912.639
3983481.443

PT	35+86.358 R1	10198560.14	3983481.443
POT	36+27.186 R1	10198596.75	3983499.522
Tangential Direction:	N26°16'59.731"E		
Tangential Length:	40.827		

NBENRP04 Alignment

	Station	Northing	Easting
POT	10+00.000 R1	10209561.75	3988931.59
PC	11+00.000 R1	10209650.96	3988976.77
Tangential Direction:	N26°51'42.147"E		
Tangential Length:	100		
Curve ID: Curve NBENRP04-1			
PC	11+00.000 R1	10209650.96	3988976.8
PI	12+25.089 R1	10209762.55	3989033.3
CC		10210945.48	3986420.9
PT	13+50.018 R1	10209878.65	3989079.9
Radius:	2865		
Delta:	5.000° Left		
Degree of Curvature (Arc):	2.000°		
Length:	250.018		
Tangent:	125.089		
PT	13+50.018 R1	10209878.65	3989079.87
PC	18+36.723 R1	10210330.35	3989261.10
Tangential Direction:	N21°51'42.147"E		
Tangential Length:	486.705		
Curve ID: Curve NBENRP04-2			
PC	18+36.723 R1	10210330.35	3989261.10
PI	21+36.081 R1	10210608.18	3989372.57
CC		10207276.94	3996871.40
PT	24+35.174 R1	10210877.14	3989504.01
Radius:	8200		
Delta:	4.182° Right		
Degree of Curvature (Arc):	0.699°		
Length:	598.45		
Tangent:	299.358		
PT	24+35.174 R1	10210877.14	3989504.01
POT	35+07.107 R1	10211840.23	3989974.64
Tangential Direction:	N26°02'35.716"E		
Tangential Length:	1071.934		

LP424 Alignment

	Station	Northing	Easting
POT	0+00.000	10191481.93	3979432.251
PC	3+18.286	10191763.48	3979580.687
Tangential Direction:	N27°47'54.200"E		
Tangential Length:	318.286		
Curve ID: Curve LP424-1			
PC	3+18.286	10191763.48	3979580.687
PI	4+00.000	10191835.77	3979618.795
CC		10191950.03	3979226.849
PT	4+79.496	10191917.2	3979625.5
Radius:	400		
Delta:	23.092° Left		
Degree of Curvature (Arc):	14.324°		
Length:	161.211		
Tangent:	81.714		
PT	4+79.496	10191917.2	3979625.5
PC	5+83.756	10192021.11	3979634.055
Tangential Direction:	N04°42'23.932"E		
Tangential Length:	104.259		
Curve ID: Curve LP424-2			
PC	5+83.756	10192021.11	3979634.055
PI	8+52.738	10192289.19	3979656.126
CC		10191998.14	3979913.111
PT	10+12.341	10192277.89	3979924.871
Radius:	280		
Delta:	87.700° Right		
Degree of Curvature (Arc):	20.463°		
Length:	428.585		
Tangent:	268.982		
PT	10+12.341	10192277.89	3979924.871
PC	14+78.074	10192258.33	3980390.193
Tangential Direction:	S87°35'34.400"E		
Tangential Length:	465.733		
Curve ID: Curve LP424-3			
PC	14+78.074	10192258.33	3980390.193
PI	16+91.449	10192249.37	3980603.38
CC		10192538.08	3980401.953
PT	18+42.730	10192452.54	3980668.567
Radius:	280		
Delta:	74.619° Left		
Degree of Curvature (Arc):	20.463°		
Length:	364.656		
Tangent:	213.375		
PT	18+42.730	10192452.54	3980668.567
PC	19+94.295	10192596.86	3980714.87
Tangential Direction:	N17°47'18.336"E		
Tangential Length:	151.565		
Curve ID: Curve LP424-4			
PC	19+94.295	10192596.86	3980714.87
PI	20+64.825	10192664.02	3980736.417
CC		10192474.66	3981095.747
PT	21+33.921	10192719.76	3980779.635
Radius:	400		
Delta:	20.000° Right		
Degree of Curvature (Arc):	14.324°		
Length:	139.626		
Tangent:	70.531		
PT	21+33.921	10192719.76	3980779.635
POT	24+79.930	10192993.2	3980991.651
Tangential Direction:	N37°47'18.336"E		
Tangential Length:	346.009		

FM1127 Alignment

	Station	Northing	Easting
POT	0+00.000	10200265.98	3983871.09
PC	5+26.141	10200033	3984342.836
Tangential Direction:	S63°43'00.3"E		
Tangential Length:	526.141		
Curve ID: Curve FM1127-1			
PC	5+26.141	10200033	3984342.836
PI	6+60.009	10199973.72	3984462.864
CC		10200467.86	3984557.599
PT	7+87.372	10199984.41	3984596.305
Radius:	485		
Delta:	30°51'38.5" Left		
Degree of Curvature (Arc):	11°48'48.8"		
Length:	261.231		
Tangent:	133.868		
PT	7+87.372	10199984.41	3984596.305
POT	18+73.394	10200071.08	3985678.863
Tangential Direction:	N85°25'21.3"E		
Tangential Length:	1086.022		

S_LP424_UTURN Alignment

	Station	Northing	Easting
Curve ID: Curve S_LP424_UTURN-1			
PC	0+00.000	10192072.68	3980220.524
PI	1+28.569	10192195.85	3980257.376
CC		10192101.34	3980124.72
PT	1+81.949	10192201.25	3980128.92
Radius:	100		
Delta:	104°14'57.0" Left		
Degree of Curvature (Arc):	57°17'44.8"		
Length:	181.949		
Tangent:	128.569		
PT	1+81.949	10192201.25	3980128.92
PC	2+53.342	10192204.25	3980057.59
Tangential Direction:	N87°35'34.4"W		
Tangential Length:	71.393		
Curve ID: Curve S_LP424_UTURN-2			
PC	2+53.342	10192204.25	3980057.59
PI	3+32.452	10192207.57	3979978.549
CC		10192104.34	3980053.39
PT	3+87.200	10192131.42	3979957.126
Radius:	100		
Delta:	76°41'43.7" Left		
Degree of Curvature (Arc):	57°17'44.8"		
Length:	133.859		
Tangent:	79.111		

N_LP424_UTURN Alignment

	Station	Northing	Easting
Curve ID: Curve N_LP424_UTURN-1			
PC	0+00.000	10192468.23	3980061.108
PI	1+33.175	10192342.01	3980018.626
CC		10192436.33	3980155.884
PCC	1+85.345	10192336.42	3980151.684
Radius:	100		
Delta:	106°11'42.0" Left		
Degree of Curvature (Arc):	57°17'44.8"		
Length:	185.345		
Tangent:	133.175		
PT	1+85.345	10192336.42	3980151.684
PC	2+57.845	10192333.37	3980224.12
Tangential Direction:	S87°35'34.4"E		
Tangential Length:	72.5		
Curve ID: Curve N_LP424_UTURN-2			
PCC	2+57.845	10192333.37	3980224.12
PI	3+34.578	10192330.15	3980300.785
CC		10192433.28	3980228.32
PT	3+88.745	10192403.37	3980323.74
Radius:	100		
Delta:	75°00'00.0" Left		
Degree of Curvature (Arc):	57°17'44.8"		
Length:	130.9		
Tangent:	76.733		

S_FM1127_UTURN Alignment

	Station	Northing	Easting
Curve ID: Curve S_FM1127_UTURN-1			
PC	0+00.000	10199935.57	3984160.72
PI	1+00.000	10200025.23	3984205.01
CC		10199979.85	3984071.06
PT	1+57.080	10200069.51	3984115.34
Radius:	100		
Delta:	90.000° Left		
Degree of Curvature (Arc):	57.296°		
Length:	157.08		
Tangent:	100		
PT	1+57.080	10200069.51	3984115.34
PC	3+69.080	10200163.39	3983925.26
Tangential Direction:	N63°43'00.269"W		
Tangential Length:	212		
Curve ID: Curve S_FM1127_UTURN-2			
PC	3+69.080	10200163.39	3983925.26
PI	4+69.080	10200207.67	3983835.60
CC		10200073.73	3983880.98
PT	5+26.159	10200118.01	3983791.32
Radius:	100		
Delta:	90.000° Left		
Degree of Curvature (Arc):	57.296°		
Length:	157.08		
Tangent:	100		

N_FM1127_UTURN Alignment

	Station	Northing	Easting
Curve ID: Curve N_FM1127_UTURN-1			
PC	0+00.000	10200419.27	3983940.10
PI	1+00.000	10200329.61	3983895.82
CC		10200374.99	3984029.76
PT	1+57.080	10200285.33	3983985.48
Radius:	100		
Delta:	90.000° Left		
Degree of Curvature (Arc):	57.296°		
Length:	157.08		
Tangent:	100		
PT	1+57.080	10200285.33	3983985.48
PC	3+69.080	10200191.45	3984175.57
Tangential Direction:	S63°43'00.267"E		
Tangential Length:	212		
Curve ID: Curve N_FM1127_UTURN-2			
PC	3+69.080	10200191.45	3984175.57
PI	4+69.080	10200147.17	3984265.23
CC		10200281.11	3984219.85
PT	5+26.159	10200236.83	3984309.51
Radius:	100		
Delta:	90.000° Left		
Degree of Curvature (Arc):	57.296°		
Length:	157.08		
Tangent:	100		

N_FM223_UTURN Alignment

	Station	Northing	Easting
Curve ID: Curve N_FM223_UTURN-1			
PC	0+00.000	10187688.90	3979644.07
PI	1+42.452	10187547.77	3979624.67
CC		10187677.05	3979730.26
PT	1+77.919	10187594.96	3979759.08
Radius:	87		
Delta:	117.172° Left		
Degree of Curvature (Arc):	65.857°		
Length:	177.919		
Tangent:	142.452		
PT	1+77.919	10187594.96	3979759.08
PC	3+49.299	10187651.72	3979920.78
Tangential Direction:	N70°39'22.936"E		
Tangential Length:	171.38		
Curve ID: Curve N_FM223_UTURN-2			
PC	3+49.299	10187651.72	3979920.78
PI	3+97.585	10187667.72	3979966.34
CC		10187725.32	3979894.95
PT	4+35.771	10187715.63	3979972.34
Radius:	78		
Delta:	63.519° Left		
Degree of Curvature (Arc):	73.456°		
Length:	86.473		
Tangent:	48.286		

U-TURN_TRINITY_S Alignment

	Station	Northing	Easting
POT	10+00.000 R1	10212016.92	3990175.102
PC	13+13.958 R1	10212297	3990316.961
Tangential Direction:	N26°51'42.2"E		
Tangential Length:	313.958		
Curve ID: Curve U-TURN_TRINITY_S-1			
PC	13+13.958 R1	10212297	3990316.961
PI	13+63.939 R1	10212341.59	3990339.544
CC		10212319.6	3990272.356
PT	13+92.478 R1	10212364.19	3990294.964
Radius:	50		
Delta:	89°58'41.6" Left		
Degree of Curvature (Arc):	114°35'29.6"		
Length:	78.521		
Tangent:	49.981		
PT	13+92.478 R1	10212364.19	3990294.964
PC	17+15.957 R1	10212510.46	3990006.445
Tangential Direction:	N63°06'59.4"W		
Tangential Length:	323.479		
Curve ID: Curve U-TURN_TRINITY_S-2			
PC	17+15.957 R1	10212510.46	3990006.445
PI	17+65.957 R1	10212533.07	3989961.848
CC		10212465.87	3989983.836
PT	17+94.497 R1	10212488.47	3989939.239
Radius:	50		
Delta:	90°00'00.0" Left		
Degree of Curvature (Arc):	114°35'29.6"		
Length:	78.54		
Tangent:	50		
PT	17+94.497 R1	10212488.47	3989939.239
PC	25+44.209 R1	10211819.79	3989600.236
Tangential Direction:	S26°53'00.6"W		
Tangential Length:	749.711		
Curve ID: Curve U-TURN_TRINITY_S-3			
PC	25+44.209 R1	10211819.79	3989600.236
PI	32+05.010 R1	10211230.4	3989301.437
CC		10203228.41	4006546.865
PT	38+65.279 R1	10210621.68	3989044.306
Radius:	19000		
Delta:	03°59'01.6" Left		
Degree of Curvature (Arc):	00°18'05.6"		
Length:	1321.07		
Tangent:	660.801		
PT	38+65.279 R1	10210621.68	3989044.306
PC	40+56.873 R1	10210445.18	3988969.753
Tangential Direction:	S22°53'59.0"W		
Tangential Length:	191.595		
Curve ID: Curve U-TURN_TRINITY_S-4			
PC	40+56.873 R1	10210445.18	3988969.753
PI	43+33.582 R1	10210190.28	3988862.08
CC		10213558.14	3981600.254
PT	46+10.071 R1	10209943.43	3988737.052
Radius:	8000		
Delta:	03°57'43.2" Right		
Degree of Curvature (Arc):	00°42'58.3"		
Length:	553.198		
Tangent:	276.709		

U-TURN_TRINITY_N Alignment

	Station	Northing	Easting
Curve ID: Curve U-TURN_TRINITY_N-1			
PC	10+00.000 R1	10217018.13	3991765.06
PI	19+35.647 R1	10216082.49	3991761.286
CC		10217034.06	3987815.092
PT	28+37.429 R1	10215247.96	3991338.207
Radius:	3950		
Delta:	26°39'08.6" Right		
Degree of Curvature (Arc):	01°27'01.9"		
Length:	1837.429		
Tangent:	935.647		
PT	28+37.429 R1	10215247.96	3991338.207
PC	42+27.954 R1	10214007.47	3990709.914
Tangential Direction:	S26°51'42.2"W		
Tangential Length:	1390.525		
Curve ID: Curve U-TURN_TRINITY_N-2			
PC	42+27.954 R1	10214007.47	3990709.914
PI	42+89.954 R1	10213952.16	3990681.9
CC		10213979.46	3990765.224
PT	43+25.343 R1	10213924.15	3990737.21
Radius:	62		
Delta:	90°00'00.0" Left		
Degree of Curvature (Arc):	92°24'45.2"		
Length:	97.389		
Tangent:	62		
PT	43+25.343 R1	10213924.15	3990737.21
PC	46+50.646 R1	10213777.17	3991027.413
Tangential Direction:	S63°08'17.8"E		
Tangential Length:	325.303		
Curve ID: Curve U-TURN_TRINITY_N-3			
PC	46+50.646 R1	10213777.17	3991027.413
PI	47+12.646 R1	10213749.15	3991082.723
CC		10213832.48	3991055.427
PT	47+48.035 R1	10213804.46	3991110.737
Radius:	62		
Delta:	90°00'00.0" Left		
Degree of Curvature (Arc):	92°24'45.2"		
Length:	97.389		
Tangent:	62		
PT	47+48.035 R1	10213804.46	3991110.737
PC	51+78.952 R1	10214188.88	3991305.442
Tangential Direction:	N26°51'42.2"E		
Tangential Length:	430.917		
Curve ID: Curve U-TURN_TRINITY_N-4			
PC	51+78.952 R1	10214188.88	3991305.442
PI	57+79.496 R1	10214724.63	3991576.791
CC		10216086.6	3987558.623
PT	63+71.954 R1	10215314.95	3991687.127
Radius:	4200		
Delta:	16°16'29.2" Left		
Degree of Curvature (Arc):	01°21'51.1"		
Length:	1193.003		
Tangent:	600.545		
PT	63+71.954 R1	10215314.95	3991687.127
PC	69+33.740 R1	10215867.17	3991790.343
Tangential Direction:	N10°35'13.0"E		
Tangential Length:	561.786		
Curve ID: Curve U-TURN_TRINITY_N-5			
PC	69+33.740 R1	10215867.17	3991790.343
PI	71+85.070 R1	10216114.22	3991836.519
CC		10216837.99	3986596.291
PT	74+36.022 R1	10216364.54	3991859.038
Radius:	5284		
Delta:	05°26'46.9" Left		
Degree of Curvature (Arc):	01°05'03.6"		
Length:	502.281		
Tangent:	251.33		

Texas Department of Transportation®

DESIGN SCHEMATIC

KELLY O. MORRIS, P.E.
LUFKIN DISTRICT ENGINEER

ROLL 4 OF 4

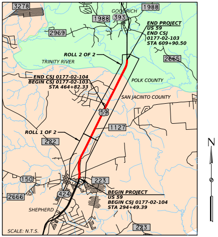
DATE:	STATE DISTRICT	COUNTY	CONTROL NO.	SEC NO.	JOB NO.
12/12/2024	LUFKIN	SAN JACINTO, POLK	0177	02	103, 104

TERRAIN: ROLLING
LIMITS: 0.74 MI. S. OF FM 223 TO 0.70 MI N. OF THE TRINITY RIVER
E MAX: 6%
EXIST ADT: 31,454
PROJ. ADT: 60,392

ROADWAY	FUNCTIONAL CLASSIFICATION	DESIGN SPEEDS
US 59 MAINLANES	RURAL FRWY. PRINCIPAL ARTERIAL	75 MPH
FRONTAGE ROADS	RURAL MAJOR COLLECTOR	50 MPH
RAMPS	RURAL RAMPS	65 MPH
FM 1127	RURAL MAJOR COLLECTOR	40 MPH
SL 424/LAKE POOL RD	RURAL LOCAL	30 MPH
LOCAL ROADS	RURAL LOCAL	30 MPH

PROJECT LOCATION MAP

POLK AND SAN JACINTO COUNTY


3278
1988
1988
393
GOODRICH
2969
END PROJECT
US 59
END CSJ
0177-02-103
STA 609+90.50
ROLL 2 OF 2
TRINITY RIVER
2665
END CSJ 0177-02-104
BEGIN CSJ 0177-02-103
STA 464+82.33
POLK COUNTY
SAN JACINTO COUNTY
59
1127
ROLL 1 OF 2
282
150
223
BEGIN PROJECT
US 59
BEGIN CSJ 0177-02-104
STA 294+49.39
2666
424
SHEPHERD
223
SCALE: N.T.S.
N

PROJECT LENGTH	FEDERAL AID PROJECT NO.	FED. RD. DIV. NO.	HIGHWAY NUMBER
5.90 MILES	XX, XXXXX	6	US 59

PRELIMINARY
SUBJECT TO REVISIONS

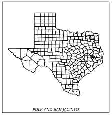
SCHEMATIC PREPARED BY:

TREVOR CASTILLA	85405
NAME	P.E. NUMBER

12/12/2024
DATE

NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES

SCALE:1"=200'-H
SCALE:1"= 20'-V


POLK AND SAN JACINTO

TEXAS COUNTY MAP (N.T.S.)

7300 STATE HWY 121, STE. 550
MCKINNEY, TEXAS 75070
P 972.569.9193 F 972.569.9197

TEXAS REGISTERED ENGINEERING FIRM NO. F-16341