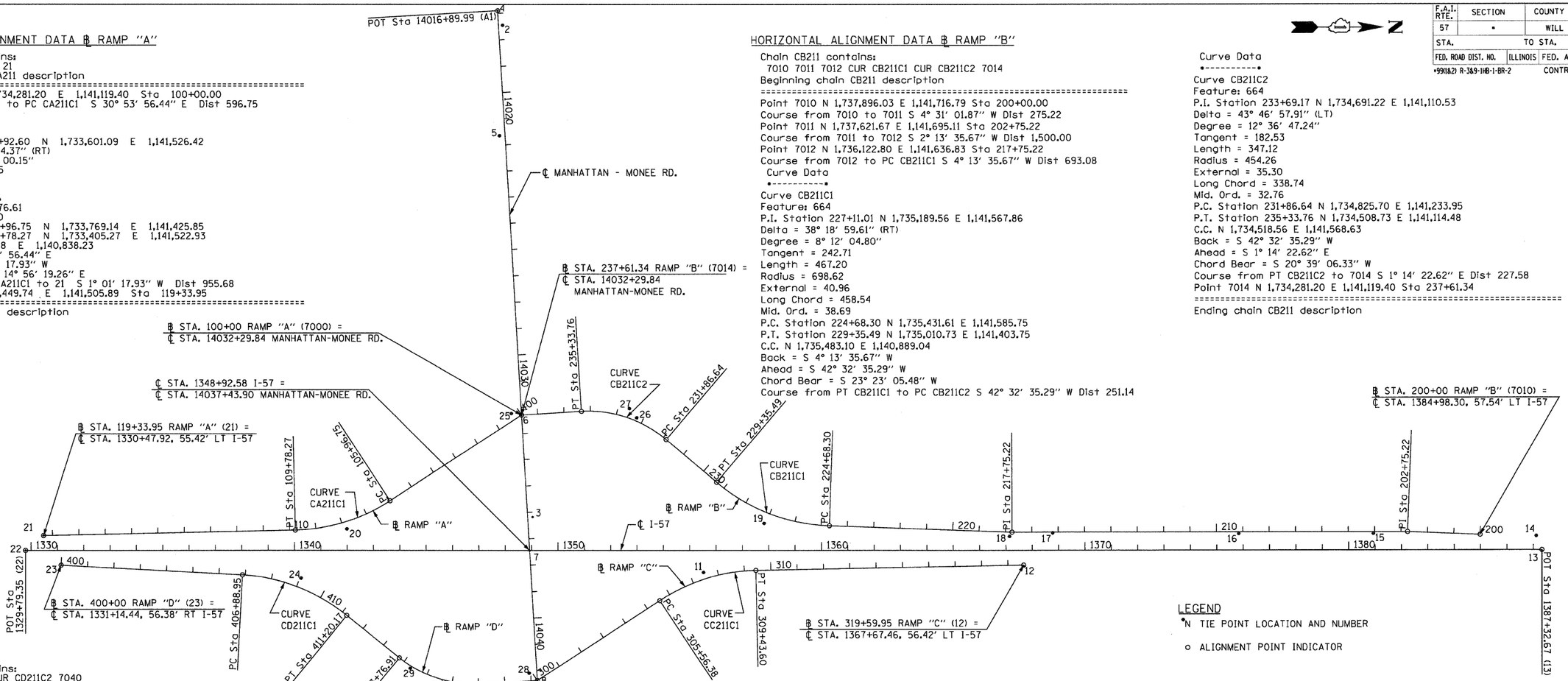
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	*	WILL	303	23
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
*99(1&2) R-3&9-1HB-1-BR-2		CONTRACT: 62253		



HORIZONTAL ALIGNMENT DATA ℄ RAMP "A"

Chain CA211 contains:
7000 CUR CA211C1 21
Beginning chain CA211 description
==========
Point 7000 N 1,734,281.20 E 1,141,119.40 Sta 100+00.00
Course from 7000 to PC CA211C1 S 30° 53′ 56.44″ E Dist 596.75
Curve Data
•----------•
Curve CA211C1
P.I. Station 107+92.60 N 1,733,601.09 E 1,141,526.42
Delta = 31° 55′ 14.37″ (RT)
Degree = 8° 22′ 00.15″
Tangent = 195.85
Length = 381.52
Radius = 684.81
External = 27.46
Long Chord = 376.61
Mid. Ord. = 26.40
P.C. Station 105+96.75 N 1,733,769.14 E 1,141,425.85
P.T. Station 109+78.27 N 1,733,405.27 E 1,141,522.93
C.C. N 1,733,417.48 E 1,140,838.23
Back = S 30° 53′ 56.44″ E
Ahead = S 1° 01′ 17.93″ W
Chord Bear = S 14° 56′ 19.26″ E
Course from PT CA211C1 to 21 S 1° 01′ 17.93″ W Dist 955.68
Point 21 N 1,732,449.74 E 1,141,505.89 Sta 119+33.95
==========
Ending chain CA211 description

HORIZONTAL ALIGNMENT DATA ℄ RAMP "B"

Chain CB211 contains:
7010 7011 7012 CUR CB211C1 CUR CB211C2 7014
Beginning chain CB211 description
==========
Point 7010 N 1,737,896.03 E 1,141,716.79 Sta 200+00.00
Course from 7010 to 7011 S 4° 31′ 01.87″ W Dist 275.22
Point 7011 N 1,737,621.67 E 1,141,695.11 Sta 202+75.22
Course from 7011 to 7012 S 2° 13′ 35.67″ W Dist 1,500.00
Point 7012 N 1,736,122.80 E 1,141,636.83 Sta 217+75.22
Course from 7012 to PC CB211C1 S 4° 13′ 35.67″ W Dist 693.08
Curve Data
•----------•
Curve CB211C1
Feature: 664
P.I. Station 227+11.01 N 1,735,189.56 E 1,141,567.86
Delta = 38° 18′ 59.61″ (RT)
Degree = 8° 12′ 04.80″
Tangent = 242.71
Length = 467.20
Radius = 698.62
External = 40.96
Long Chord = 458.54
Mid. Ord. = 38.69
P.C. Station 224+68.30 N 1,735,431.61 E 1,141,585.75
P.T. Station 229+35.49 N 1,735,010.73 E 1,141,403.75
C.C. N 1,735,483.10 E 1,140,889.04
Back = S 4° 13′ 35.67″ W
Ahead = S 42° 32′ 35.29″ W
Chord Bear = S 23° 23′ 05.48″ W
Course from PT CB211C1 to PC CB211C2 S 42° 32′ 35.29″ W Dist 251.14

Curve Data
•----------•
Curve CB211C2
Feature: 664
P.I. Station 233+69.17 N 1,734,691.22 E 1,141,110.53
Delta = 43° 46′ 57.91″ (LT)
Degree = 12° 36′ 47.24″
Tangent = 182.53
Length = 347.12
Radius = 454.26
External = 35.30
Long Chord = 338.74
Mid. Ord. = 32.76
P.C. Station 231+86.64 N 1,734,825.70 E 1,141,233.95
P.T. Station 235+33.76 N 1,734,508.73 E 1,141,114.48
C.C. N 1,734,518.56 E 1,141,568.63
Back = S 42° 32′ 35.29″ W
Ahead = S 1° 14′ 22.62″ E
Chord Bear = S 20° 39′ 06.33″ W
Course from PT CB211C2 to 7014 S 1° 14′ 22.62″ E Dist 227.58
Point 7014 N 1,734,281.20 E 1,141,119.40 Sta 237+61.34
==========
Ending chain CB211 description

HORIZONTAL ALIGNMENT DATA ℄ RAMP "D"

Chain CD211 contains:
23 CUR CD211C1 CUR CD211C2 7040
Beginning chain CD211 description
==========
Point 23 N 1,732,511.84 E 1,141,620.20 Sta 400+00.00
Course from 23 to PC CD211C1 N 5° 18′ 31.97″ E Dist 688.95
Curve Data
•----------•
Curve CD211C1
P.I. Station 409+11.94 N 1,733,419.86 E 1,141,704.58
Delta = 35° 58′ 52.65″ (RT)
Degree = 8° 20′ 38.25″
Tangent = 222.99
Length = 431.23
Radius = 686.67
External = 35.30
Long Chord = 424.17
Mid. Ord. = 33.57
P.C. Station 406+88.95 N 1,733,197.83 E 1,141,683.95
P.T. Station 411+20.17 N 1,733,587.41 E 1,141,851.73
C.C. N 1,733,134.30 E 1,142,367.68
Back = N 5° 18′ 31.97″ E
Ahead = N 41° 17′ 24.63″ E
Chord Bear = N 23° 17′ 58.30″ E
Course from PT CD211C1 to PC CD211C2 N 41° 17′ 24.63″ E Dist 256.74
Curve Data
•----------•
Curve CD211C2
P.I. Station 415+49.00 N 1,733,909.62 E 1,142,134.70
Delta = 42° 08′ 07.92″ (LT)
Degree = 12° 49′ 32.20″
Tangent = 172.09
Length = 328.53
Radius = 446.73
External = 32.00
Long Chord = 321.17
Mid. Ord. = 29.86
P.C. Station 413+76.91 N 1,733,780.32 E 1,142,021.14
P.T. Station 417+05.44 N 1,734,081.69 E 1,142,132.16
C.C. N 1,734,075.10 E 1,141,685.48
Back = N 41° 17′ 24.63″ E
Ahead = N 0° 50′ 43.29″ W
Chord Bear = N 20° 13′ 20.67″ E
Course from PT CD211C2 to 7040 N 0° 50′ 43.29″ W Dist 218.43
Point 7040 N 1,734,300.10 E 1,142,128.93 Sta 419+23.87
==========
Ending chain CD211 description

HORIZONTAL ALIGNMENT DATA ℄ MANHATTAN - MONEE ROAD

Chain MA111 contains:
A1 A2
Beginning chain MA111 description
==========
Point A1 N 1,734,252.37 E 1,139,579.82 Sta 14016+89.99
Course from A1 to A2 N 88° 55′ 38.30″ E Dist 5,280.74
Point A2 N 1,734,351.23 E 1,144,859.64 Sta 14069+70.73
==========
Ending chain MA111 description

HORIZONTAL ALIGNMENT DATA ℄ I-57

Chain CE111 contains:
22 13
Beginning chain CE111 description
==========
Point 22 N 1,732,379.05 E 1,141,558.59 Sta 1329+79.35
Course from 22 to 13 N 2° 14′ 23.43″ E Dist 5,753.32
Point 13 N 1,738,127.98 E 1,141,783.45 Sta 1387+32.67
==========
Ending chain CE111 description

LEGEND

•N TIE POINT LOCATION AND NUMBER

o ALIGNMENT POINT INDICATOR

HORIZONTAL ALIGNMENT DATA ℄ RAMP "C"

Chain CC211 contains:
7030 CUR CC211C1 12
Beginning chain CC211 description
==========
Point 7030 N 1,734,300.10 E 1,142,128.93 Sta 300+00.00
Course from 7030 to PC CC211C1 N 31° 03′ 25.16″ W Dist 556.38
Curve Data
•----------•
Curve CC211C1
P.I. Station 307+55.24 N 1,734,947.08 E 1,141,739.31
Delta = 32° 10′ 28.49″ (RT)
Degree = 8° 18′ 33.03″
Tangent = 198.86
Length = 387.22
Radius = 689.55
External = 28.10
Long Chord = 382.15
Mid. Ord. = 27.00
P.C. Station 305+56.38 N 1,734,776.73 E 1,141,841.90
P.T. Station 309+43.60 N 1,735,145.91 E 1,141,743.19
C.C. N 1,735,132.46 E 1,142,432.61
Back = N 31° 03′ 25.16″ W
Ahead = N 1° 07′ 03.33″ E
Chord Bear = N 14° 58′ 10.91″ W
Course from PT CC211C1 to 12 N 1° 07′ 03.33″ E Dist 1,016.35
Point 12 N 1,736,162.06 E 1,141,763.01 Sta 319+59.95
==========
Ending chain CC211 description

REVISIONS	
NAME	DATE

Clark Dietz ENGINEERS
DESIGN FIRM REGISTRATION No. 184-000450
118 SOUTH CLINTON STREET
SUITE 600
CHICAGO, IL 60661
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FAX : 312.648.0204

ILLINOIS DEPARTMENT OF TRANSPORTATION

I-57 AT MANHATTAN - MONEE ROAD

ALIGNMENT, TIES AND BENCHMARKS
1 OF 3

SCALE: VERT. NTS
HORIZ. 1"=200'
DATE 9/19/2008

DRAWN BY ML, NS
CHECKED BY TMW

g:\022231\plans\sheets\022231AT01 0001.dgn
9/17/2008