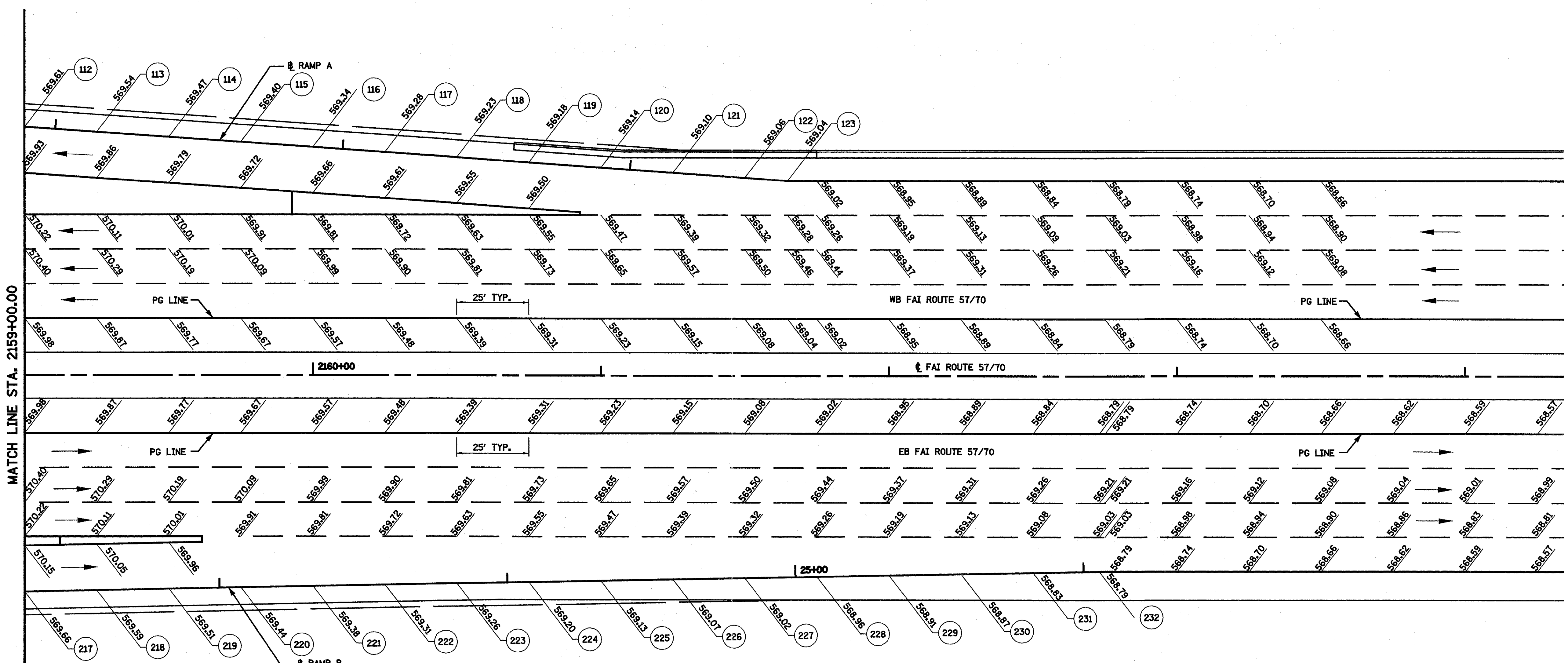


FAYETTE RAMP A						
POINT	ELEVATION	NORTHING	EASTING	ROADWAY STATION	℄ ROADWAY OFFSET	RAMP STATION
WB FAI ROUTE 57/70						
112	569.61	894,907.45	917,724.36	2159+00.00	86.52	8+10.65
113	569.54	894,931.31	917,732.03	2159+25.00	84.77	7+85.59
114	569.47	894,955.17	917,739.71	2159+50.00	83.02	7+60.52
115	569.40	894,979.02	917,747.38	2159+75.00	81.27	7+35.46
116	569.34	895,002.88	917,755.05	2160+00.00	79.53	7+10.40
117	569.28	895,026.74	917,762.73	2160+25.00	77.78	6+85.34
118	569.23	895,050.60	917,770.40	2160+50.00	76.03	6+60.28
119	569.18	895,074.45	917,778.07	2160+75.00	74.28	6+35.22
120	569.14	895,098.31	917,785.75	2161+00.00	72.53	6+10.16
121	569.10	895,122.17	917,793.42	2161+25.00	70.78	5+85.10
122	569.06	895,146.03	917,801.09	2161+50.00	69.04	5+60.04
123	569.04	895,160.17	917,805.64	2161+64.82	68.00	5+45.18

FAYETTE RAMP B						
POINT	ELEVATION	NORTHING	EASTING	ROADWAY STATION	℄ ROADWAY OFFSET	RAMP STATION
EB FAI ROUTE 57/70						
217	569.66	894,868.80	917,881.38	2159+00.00	75.19	22+32.38
218	569.59	894,893.19	917,886.89	2159+25.00	74.71	22+57.39
219	569.51	894,917.58	917,892.39	2159+50.00	74.22	22+82.39
220	569.44	894,941.97	917,897.90	2159+75.00	73.74	23+07.40
221	569.38	894,966.36	917,903.41	2160+00.00	73.26	23+32.40
222	569.31	894,990.75	917,908.92	2160+25.00	72.78	23+57.41
223	569.26	895,015.14	917,914.43	2160+50.00	72.30	23+82.41
224	569.20	895,039.53	917,919.93	2160+75.00	71.82	24+07.42
225	569.13	895,063.92	917,925.44	2161+00.00	71.33	24+32.42
226	569.07	895,088.31	917,930.95	2161+25.00	70.85	24+57.43
227	569.02	895,112.70	917,936.46	2161+50.00	70.37	24+82.43
228	568.96	895,137.09	917,941.97	2161+75.00	69.89	25+07.43
229	568.91	895,161.48	917,947.48	2162+00.00	69.41	25+32.44
230	568.87	895,185.87	917,952.98	2162+25.00	68.92	25+57.44
231	568.83	895,210.26	917,958.49	2162+50.00	68.44	25+82.45
232	568.79	895,232.68	917,963.55	2162+72.98	68.00	26+05.43

0 20' 40'

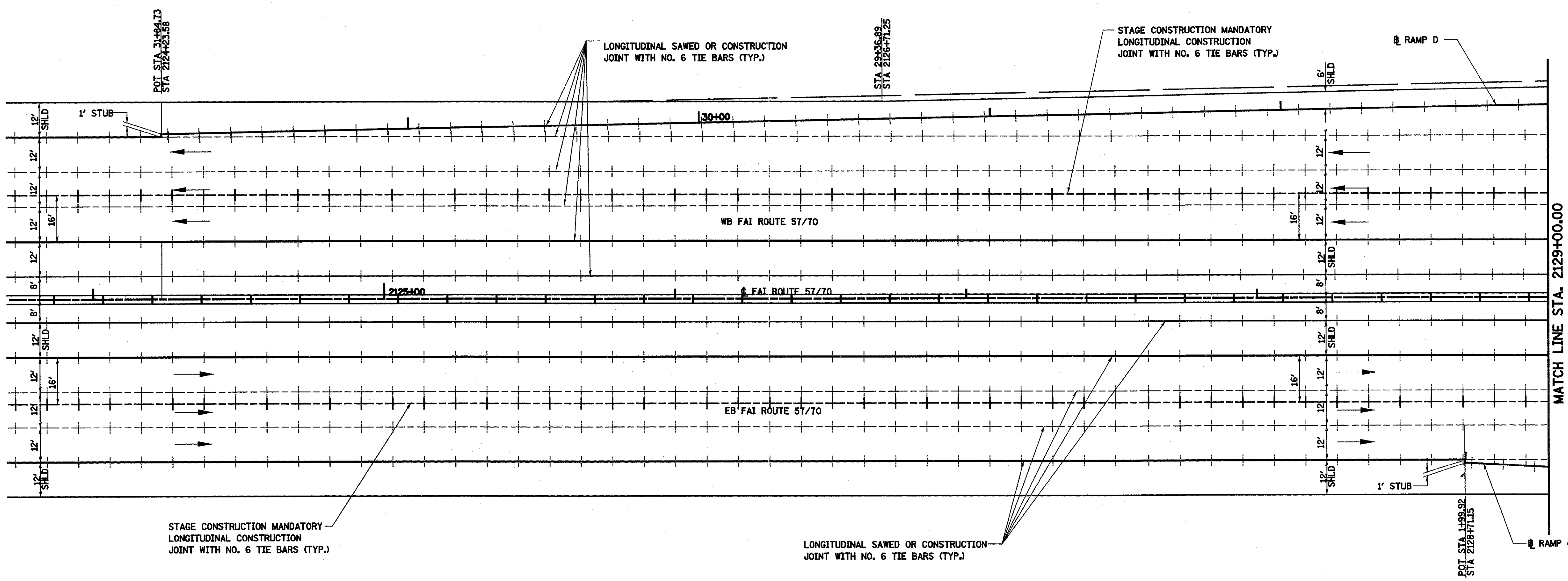
FILE NAME = S:\Projects\483-88872_57-70\dgn\H_Keller\pav_elev_details.dgn	USER NAME = bseibel	DESIGNED - ESW	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/17/2011	DATE - 4-23-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT ELEVATION DETAIL, RAMP A AND B, FAYETTE AVE.

SCALE: 1"=20' | SHEET NO. 5 OF 5 SHEETS | STA. 2159+00.00 TO STA. 2163+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	201
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



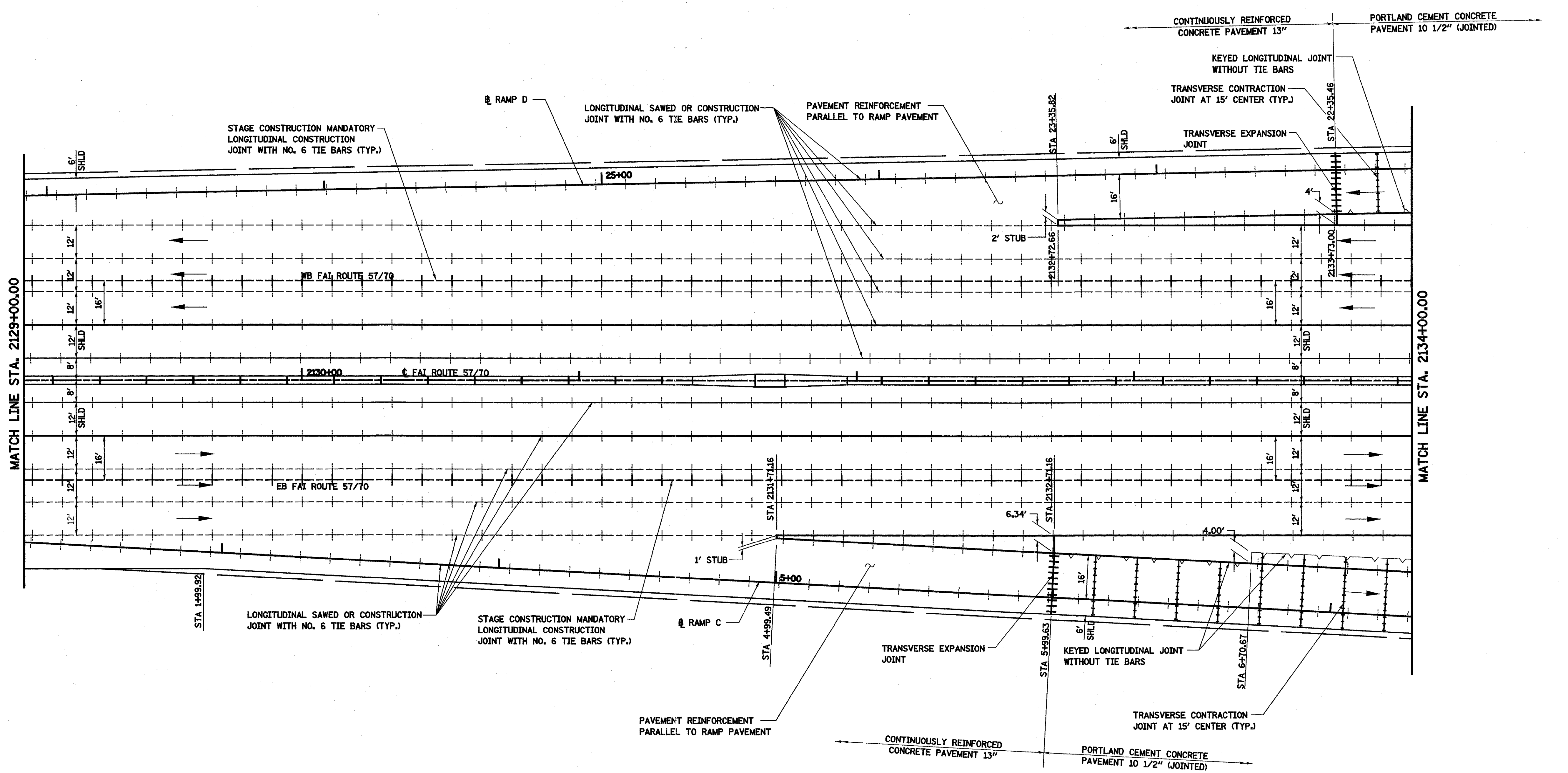
LEGEND

+--+--	LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
+--+--	LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
++++++	TRANSVERSE CONTRACTION JOINT AT 15' CENTERS (TYP.)
‖‖‖‖	TRANSVERSE EXPANSION JOINT
—^—^	LONGITUDINAL KEYED JOINT (WITHOUT TIE BARS)

NOTE:
TRANSVERSE CONTRACTION JOINT SPACING AT 15' UNLESS OTHERWISE NOTED.

0 20' 40'

FILE NAME =	USER NAME = bseibel	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOINTING DETAIL, RAMP D AND C, FAYETTE AVE.	F.A.I RTE. 57/70	SECTION (25-3,4)R	COUNTY EFFINGHAM	TOTAL SHEETS 1098	SHEET NO. 202
S:\Projects\483-88872.57-70\dgn\ML_Keller\jont_details.dgn		DRAWN - PDB	REVISED -					CONTRACT NO. 74299		
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -		SCALE: 1"=20' SHEET NO. 1 OF 6 SHEETS STA. 2124+00.00 TO STA. 2129+00.00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
	PLOT DATE = 3/17/2011	DATE - 1-23-09	REVISED -							


N
CONTINUOUSLY REINFORCED CONCRETE PAVEMENT 13"
PORTLAND CEMENT CONCRETE PAVEMENT 10 1/2" (JOINTED)
KEYED LONGITUDINAL JOINT WITHOUT TIE BARS
TRANSVERSE CONTRACTION JOINT AT 15' CENTER (TYP.)
TRANSVERSE EXPANSION JOINT
℄ RAMP D
LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
PAVEMENT REINFORCEMENT PARALLEL TO RAMP PAVEMENT
STAGE CONSTRUCTION MANDATORY LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
STA 23+35.82
STA 22+35.46
25+00
2' STUB
2132+72.66
2133+73.00
WB FAI ROUTE 57/70
2130+00
℄ FAI ROUTE 57/70
EB FAI ROUTE 57/70
MATCH LINE STA. 2129+00.00
MATCH LINE STA. 2134+00.00
6' SHLD
12' SHLD
STA 2131+71.16
STA 2132+71.16
6.34'
4.00'
1' STUB
5+00
STA 1+99.92
STA 4+99.49
STA 5+99.63
STA 6+70.67
LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
STAGE CONSTRUCTION MANDATORY LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
℄ RAMP C
TRANSVERSE EXPANSION JOINT
KEYED LONGITUDINAL JOINT WITHOUT TIE BARS
TRANSVERSE CONTRACTION JOINT AT 15' CENTER (TYP.)
PAVEMENT REINFORCEMENT PARALLEL TO RAMP PAVEMENT
CONTINUOUSLY REINFORCED CONCRETE PAVEMENT 13"
PORTLAND CEMENT CONCRETE PAVEMENT 10 1/2" (JOINTED)

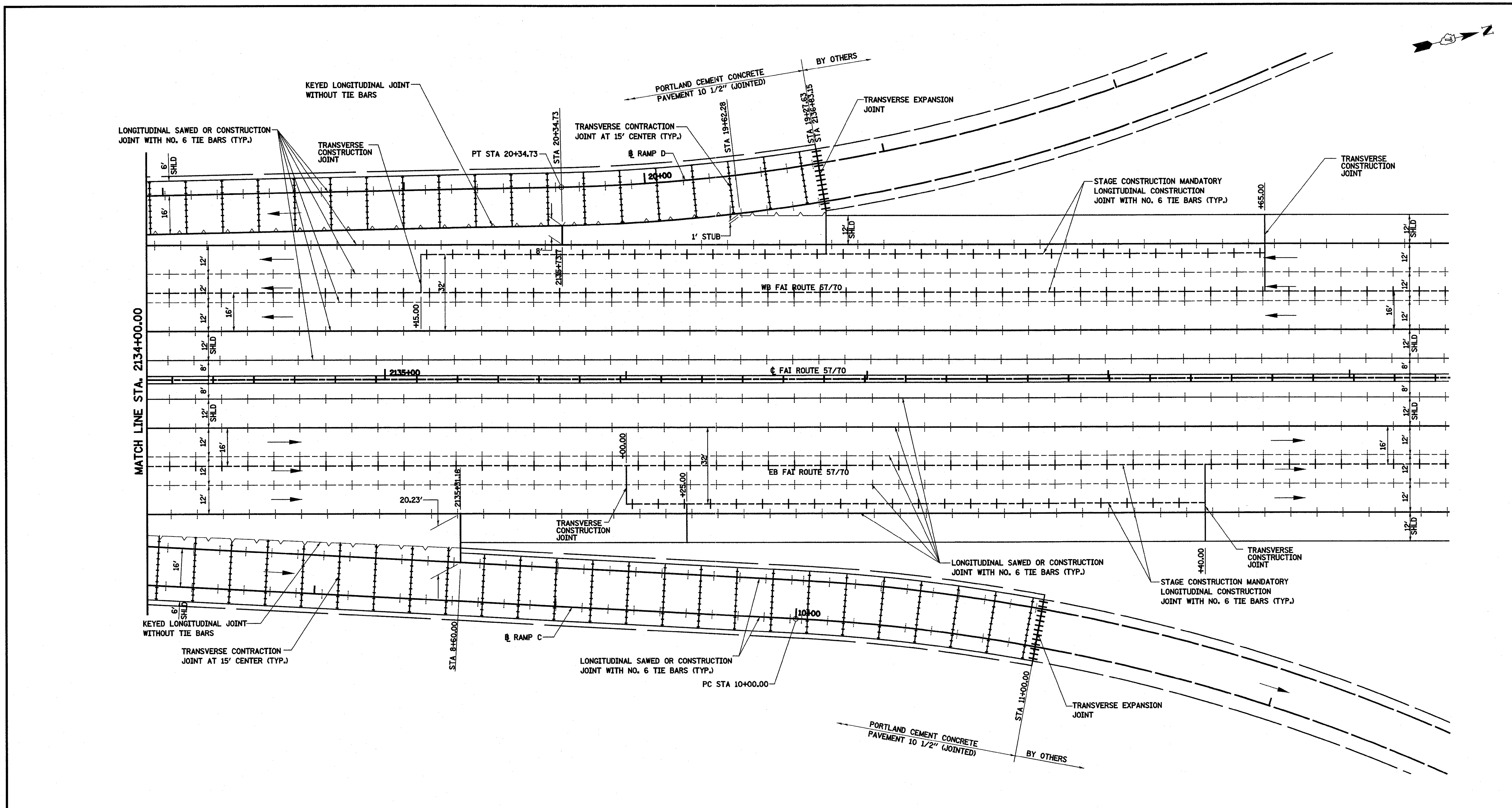
LEGEND

- LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
- LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
- TRANSVERSE CONTRACTION JOINT AT 15' CENTERS (TYP.)
- TRANSVERSE EXPANSION JOINT
- LONGITUDINAL KEYED JOINT (WITHOUT TIE BARS)

NOTE:
TRANSVERSE CONTRACTION JOINT SPACING AT 15' UNLESS OTHERWISE NOTED.

0 20' 40'

FILE NAME = S:\Projects\463-00072_57-70\dgn\ML_Keller\joint_details.dgn	USER NAME = bseibel	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOINTING DETAIL, RAMP D AND C, FAYETTE AVE.	F.A.I RTE. 57/70	SECTION (25-3,4)R	COUNTY EFFINGHAM	TOTAL SHEETS 1098 / SHEET NO. 203
	PLOT SCALE = 40.0000 ' / IN.	DRAWN - PDB	REVISED -		SCALE: 1"=20'	SHEET NO. 2 OF 6 SHEETS	STA. 2129+00.00 TO STA. 2134+00.00		CONTRACT NO. 74299
	PLOT DATE = 3/17/2011	CHECKED - BRM	REVISED -			FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
		DATE - 1-23-09	REVISED -						



MATCH LINE STA. 2134+00.00
KEYED LONGITUDINAL JOINT WITHOUT TIE BARS
PORTLAND CEMENT CONCRETE PAVEMENT 10 1/2" (JOINTED)
BY OTHERS
LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
TRANSVERSE CONSTRUCTION JOINT
PT STA 20+34.73
STA 20+34.73
TRANSVERSE CONTRACTION JOINT AT 15' CENTER (TYP.)
℄ RAMP D
STA 19+62.28
STA 19+27.63
STA 2136+83.15
TRANSVERSE EXPANSION JOINT
20+00
1' STUB
STAGE CONSTRUCTION MANDATORY LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
+65.00
TRANSVERSE CONSTRUCTION JOINT
2135+73.17
+15.00
32'
WB FAI ROUTE 57/70
2135+00
℄ FAI ROUTE 57/70
EB FAI ROUTE 57/70
+00.00
+25.00
20.23'
2135+81.16
TRANSVERSE CONSTRUCTION JOINT
LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
+40.00
TRANSVERSE CONSTRUCTION JOINT
STAGE CONSTRUCTION MANDATORY LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
KEYED LONGITUDINAL JOINT WITHOUT TIE BARS
TRANSVERSE CONTRACTION JOINT AT 15' CENTER (TYP.)
STA 8+60.00
℄ RAMP C
10+00
LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
PC STA 10+00.00
STA 11+00.00
TRANSVERSE EXPANSION JOINT
PORTLAND CEMENT CONCRETE PAVEMENT 10 1/2" (JOINTED)
BY OTHERS
6' SHLD
16'
12'
8'
12' SHLD

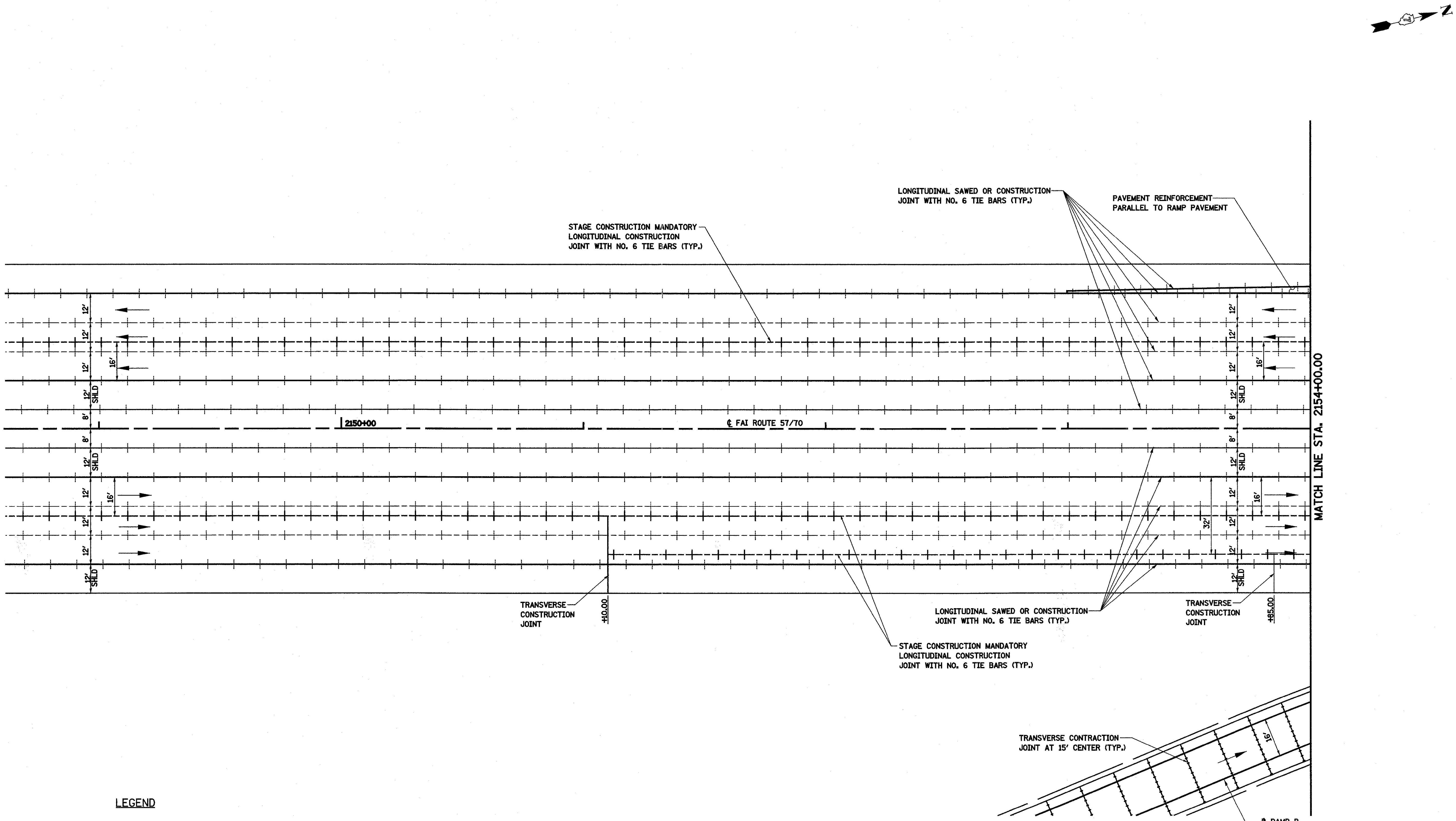
LEGEND

- LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
- LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
- TRANSVERSE CONTRACTION JOINT AT 15' CENTERS (TYP.)
- TRANSVERSE EXPANSION JOINT
- LONGITUDINAL KEYED JOINT (WITHOUT TIE BARS)

NOTE:
TRANSVERSE CONTRACTION JOINT SPACING AT 15' UNLESS OTHERWISE NOTED.

0 20' 40'

FILE NAME = S:\Projects\483-88072_57-70\dgn\hl_folder\joint_details.dgn	USER NAME = bseibel	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOINTING DETAIL, RAMP D AND C, FAYETTE AVE.	F.A.I. RTE. 57/70	SECTION (25-3,4)R	COUNTY EFFINGHAM	TOTAL SHEETS 1098 / SHEET NO. 204
		DRAWN - PDB	REVISED -					CONTRACT NO. 74299	
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -		SCALE: 1"=20' / SHEET NO. 3 OF 6 SHEETS / STA. 2134+00.00 TO STA. 2138+50.00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
	PLOT DATE = 3/17/2011	DATE - 1-23-09	REVISED -						



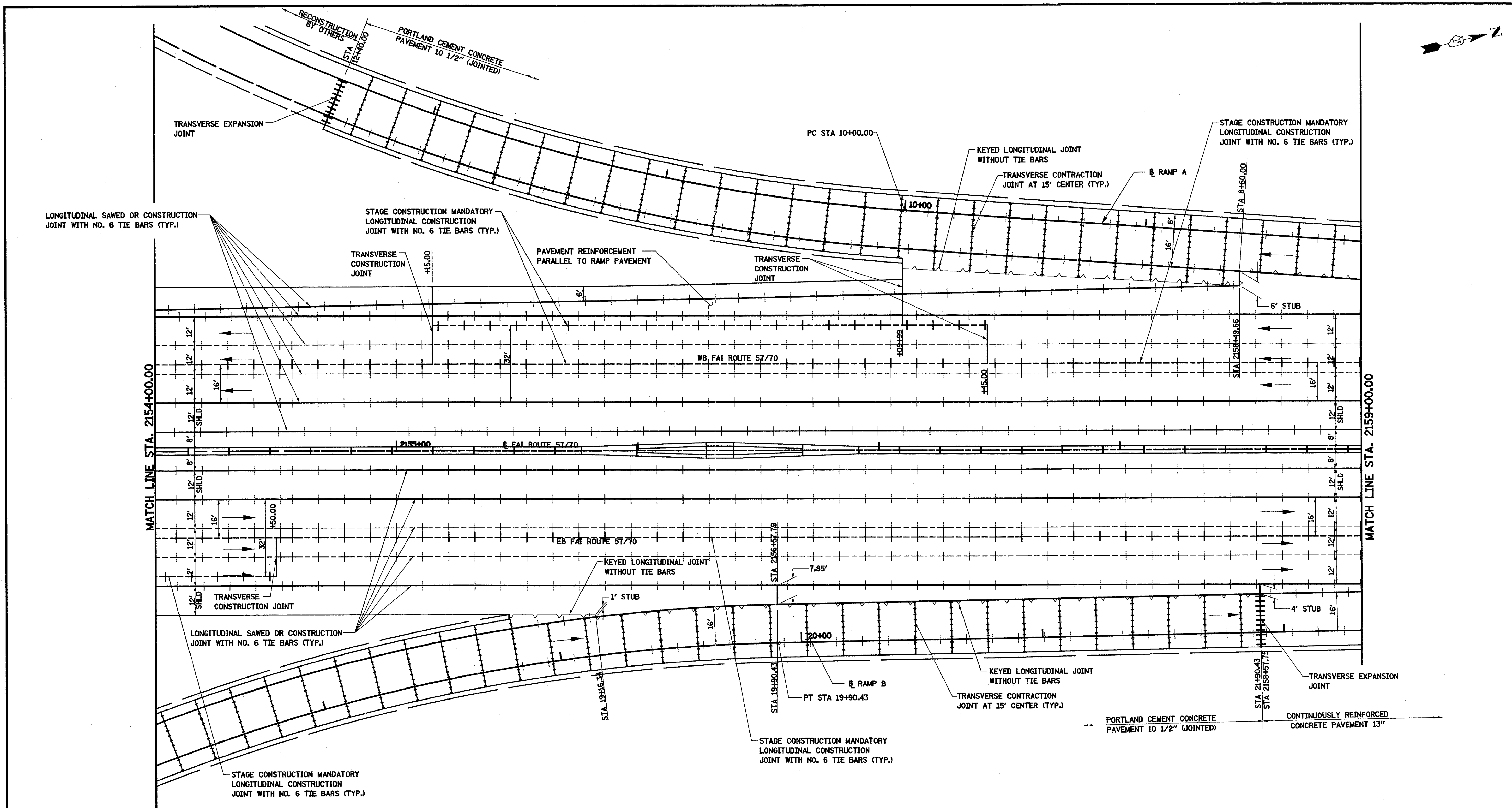
LEGEND

- LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
- LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
- TRANSVERSE CONTRACTION JOINT AT 15' CENTERS (TYP.)
- TRANSVERSE EXPANSION JOINT
- LONGITUDINAL KEYED JOINT (WITHOUT TIE BARS)

NOTE:
TRANSVERSE CONTRACTION JOINT SPACING AT 15' UNLESS OTHERWISE NOTED.

0 20' 40'

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\joint_details.dgn	USER NAME = bseibel	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOINTING DETAIL, RAMP B, FAYETTE AVE.	F.A.I RTE. 57/70 · SECTION (25-3,4)R · COUNTY EFFINGHAM · TOTAL SHEETS 1098 · SHEET NO. 205
		DRAWN - PDB	REVISED -			CONTRACT NO. 74299
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -		SCALE: 1"=20' · SHEET NO. 4 OF 6 SHEETS · STA. 2154+50.00 TO STA. 2159+00.00	FED. ROAD DIST. NO. · ILLINOIS · FED. AID PROJECT
	PLOT DATE = 3/17/2011	DATE - 1-23-09	REVISED -			


RECONSTRUCTION BY OTHERS
STA 12+40.00
PORTLAND CEMENT CONCRETE PAVEMENT 10 1/2" (JOINTED)
TRANSVERSE EXPANSION JOINT
PC STA 10+00.00
KEYED LONGITUDINAL JOINT WITHOUT TIE BARS
TRANSVERSE CONTRACTION JOINT AT 15' CENTER (TYP.)
℄ RAMP A
STAGE CONSTRUCTION MANDATORY LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
STA 8+60.00
10+00
LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
STAGE CONSTRUCTION MANDATORY LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
TRANSVERSE CONSTRUCTION JOINT
+15.00
PAVEMENT REINFORCEMENT PARALLEL TO RAMP PAVEMENT
TRANSVERSE CONSTRUCTION JOINT
6' STUB
STA 2158+49.66
+08+99
WB FAI ROUTE 57/70
+45.00
MATCH LINE STA. 2154+00.00
MATCH LINE STA. 2159+00.00
2155+00
℄ FAI ROUTE 57/70
EB FAI ROUTE 57/70
+50.00
STA 2156+57.79
7.85'
KEYED LONGITUDINAL JOINT WITHOUT TIE BARS
1' STUB
TRANSVERSE CONSTRUCTION JOINT
4' STUB
LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
20+00
℄ RAMP B
PT STA 19+90.43
STA 19+90.43
STA 19+16.34
KEYED LONGITUDINAL JOINT WITHOUT TIE BARS
TRANSVERSE CONTRACTION JOINT AT 15' CENTER (TYP.)
TRANSVERSE EXPANSION JOINT
STA 21+90.43
STA 2158+57.79
PORTLAND CEMENT CONCRETE PAVEMENT 10 1/2" (JOINTED)
CONTINUOUSLY REINFORCED CONCRETE PAVEMENT 13"
STAGE CONSTRUCTION MANDATORY LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
STAGE CONSTRUCTION MANDATORY LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
12'
16'
32'
8'
SHLD
N

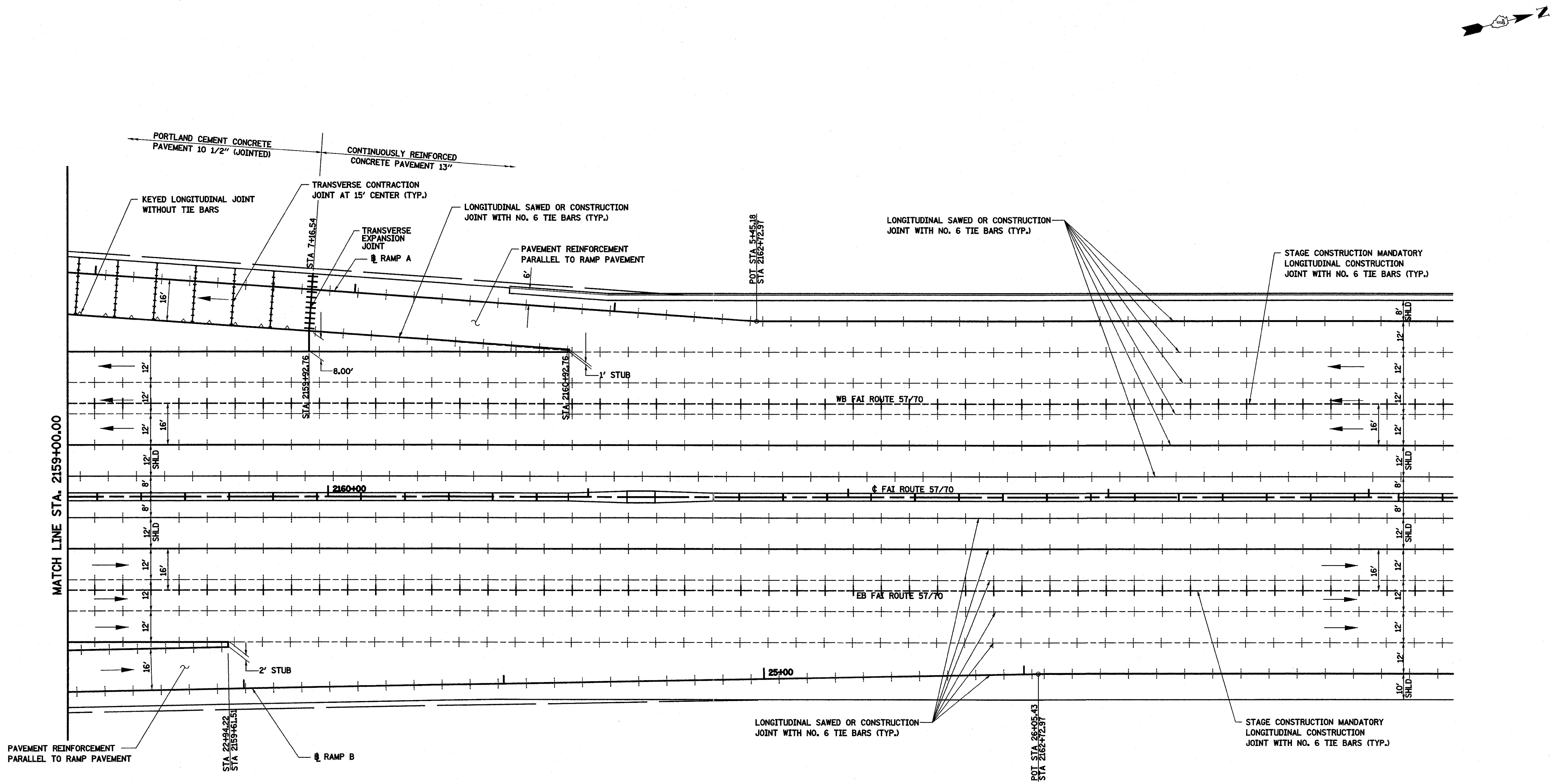
LEGEND

- LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
- LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
- TRANSVERSE CONTRACTION JOINT AT 15' CENTERS (TYP.)
- TRANSVERSE EXPANSION JOINT
- LONGITUDINAL KEYED JOINT (WITHOUT TIE BARS)

NOTE:
TRANSVERSE CONTRACTION JOINT SPACING AT 15' UNLESS OTHERWISE NOTED.

0 20' 40'

FILE NAME = S:\Projects\483-00072_57-70\dgn\M_Keller\joint_details.dgn	USER NAME = bseibel	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOINTING DETAIL, RAMP A AND B, FAYETTE AVE.	F.A.I RTE. 57/70	SECTION (25-3,4)R	COUNTY EFFINGHAM	TOTAL SHEETS 1098 / SHEET NO. 206
		DRAWN - PDB	REVISED -						CONTRACT NO. 74299
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -		SCALE: 1"=20' / SHEET NO. 5 OF 6 SHEETS / STA. 2154+50.00 TO STA. 2159+00.00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
	PLOT DATE = 3/17/2011	DATE - 1-23-09	REVISED -						


PORTLAND CEMENT CONCRETE PAVEMENT 10 1/2" (JOINTED)
CONTINUOUSLY REINFORCED CONCRETE PAVEMENT 13"
KEYED LONGITUDINAL JOINT WITHOUT TIE BARS
TRANSVERSE CONTRACTION JOINT AT 15' CENTER (TYP.)
TRANSVERSE EXPANSION JOINT
℄ RAMP A
STA 7+16.54
LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
PAVEMENT REINFORCEMENT PARALLEL TO RAMP PAVEMENT
POT STA 5+45.18
STA 2162+72.97
LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
STAGE CONSTRUCTION MANDATORY LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
MATCH LINE STA. 2159+00.00
8.00'
1' STUB
STA 2159+92.76
STA 2160+92.76
WB FAI ROUTE 57/70
2160+00
℄ FAI ROUTE 57/70
EB FAI ROUTE 57/70
2' STUB
25+00
STA 22+94.22
STA 2159+61.51
℄ RAMP B
PAVEMENT REINFORCEMENT PARALLEL TO RAMP PAVEMENT
LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
POT STA 26+05.43
STA 2162+72.97
STAGE CONSTRUCTION MANDATORY LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
16'
12'
8' SHLD
12' SHLD
10' SHLD
6'
N

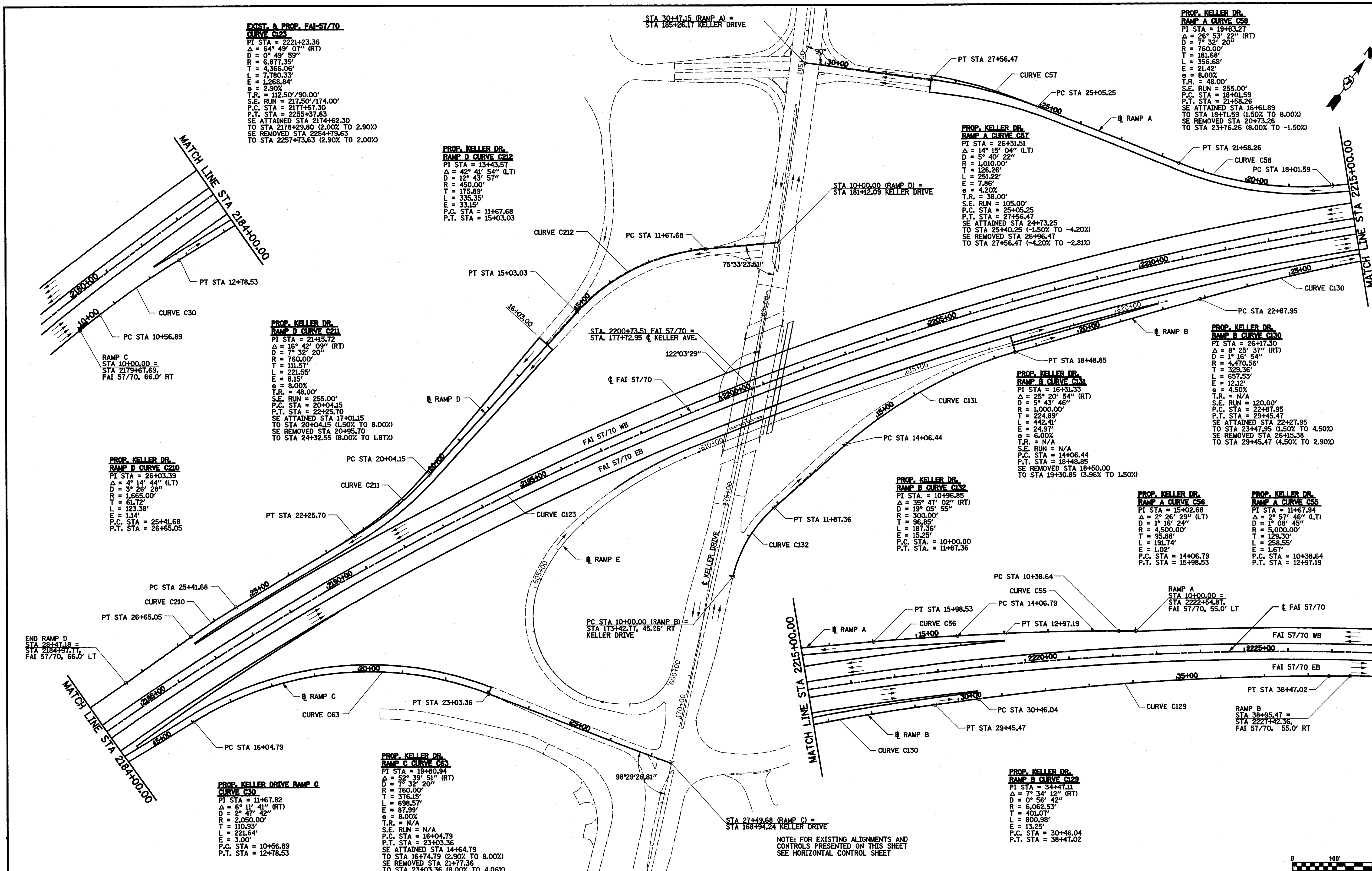
LEGEND

- LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
- LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
- TRANSVERSE CONTRACTION JOINT AT 15' CENTERS (TYP.)
- TRANSVERSE EXPANSION JOINT
- LONGITUDINAL KEYED JOINT (WITHOUT TIE BARS)

NOTE:
TRANSVERSE CONTRACTION JOINT SPACING AT 15' UNLESS OTHERWISE NOTED.

0 20' 40'

FILE NAME =	USER NAME = bseibel	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOINTING DETAIL, RAMP A AND B, FAYETTE AVE.	F.A.I. RTE. 57/70	SECTION (25-3,4)R	COUNTY EFFINGHAM	TOTAL SHEETS 1098	SHEET NO. 207
		DRAWN - PDB	REVISED -					CONTRACT NO. 74299		
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -		SCALE: 1"=20' / SHEET NO. 6 OF 6 SHEETS / STA. 2159+00.00 TO STA. 2163+00.00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
	PLOT DATE = 3/17/2011	DATE - 1-23-09	REVISED -							



EXIST. & PROP. FAI-57/70 CURVE C123
PI STA = 2221+23.36
Δ = 64° 49' 07" (RT)
D = 0° 49' 59"
R = 6,877.35'
T = 4,366.06'
L = 7,780.33'
E = 1,268.84'
e = 2.90%
T.R. = 112.50'/90.00'
S.E. RUN = 217.50'/174.00'
P.C. STA = 2177+57.30
P.T. STA = 2255+37.63
SE ATTAINED STA 2174+62.30
TO STA 2178+29.80 (2.00% TO 2.90%)
SE REMOVED STA 2254+79.63
TO STA 2257+73.63 (2.90% TO 2.00%)

PROP. KELLER DR. RAMP D CURVE C212
PI STA = 13+43.57
Δ = 42° 41' 54" (LT)
D = 12° 43' 57"
R = 450.00'
T = 175.89'
L = 335.35'
E = 33.15'
P.C. STA = 11+67.68
P.T. STA = 15+03.03

PROP. KELLER DR. RAMP A CURVE C57
PI STA = 26+31.51
Δ = 14° 15' 04" (LT)
D = 5° 40' 22"
R = 1,010.00'
T = 126.26'
L = 251.22'
E = 7.86'
e = 4.20%
T.R. = 38.00'
S.E. RUN = 105.00'
P.C. STA = 25+05.25
P.T. STA = 27+56.47
SE ATTAINED STA 24+73.25
TO STA 25+40.25 (-1.50% TO -4.20%)
SE REMOVED STA 26+96.47
TO STA 27+56.47 (-4.20% TO -2.81%)

PROP. KELLER DR. RAMP A CURVE C58
PI STA = 19+83.27
Δ = 26° 53' 22" (RT)
D = 7° 32' 20"
R = 760.00'
T = 181.68'
L = 356.68'
E = 21.42'
e = 8.00%
T.R. = 48.00'
S.E. RUN = 255.00'
P.C. STA = 18+01.59
P.T. STA = 21+58.26
SE ATTAINED STA 16+61.89
TO STA 18+71.59 (1.50% TO 8.00%)
SE REMOVED STA 20+73.26
TO STA 23+76.26 (8.00% TO -1.50%)

PROP. KELLER DR. RAMP D CURVE C211
PI STA = 21+15.72
Δ = 16° 42' 09" (RT)
D = 7° 32' 20"
R = 760.00'
T = 111.57'
L = 221.55'
E = 8.15'
e = 8.00%
T.R. = 48.00'
S.E. RUN = 255.00'
P.C. STA = 20+04.15
P.T. STA = 22+25.70
SE ATTAINED STA 17+01.15
TO STA 20+04.15 (1.50% TO 8.00%)
SE REMOVED STA 20+95.70
TO STA 24+32.55 (8.00% TO 1.87%)

PROP. KELLER DR. RAMP B CURVE C131
PI STA = 16+31.33
Δ = 25° 20' 54" (RT)
D = 5° 43' 46"
R = 1,000.00'
T = 224.89'
L = 442.41'
E = 24.97'
e = 6.00%
T.R. = N/A
S.E. RUN = N/A
P.C. STA = 14+06.44
P.T. STA = 18+48.85
SE REMOVED STA 18+50.00
TO STA 19+30.85 (3.96% TO 1.50%)

PROP. KELLER DR. RAMP B CURVE C130
PI STA = 26+17.30
Δ = 8° 25' 37" (RT)
D = 1° 16' 54"
R = 4,470.56'
T = 329.36'
L = 657.53'
E = 12.12'
e = 4.50%
T.R. = N/A
S.E. RUN = 120.00'
P.C. STA = 22+87.95
P.T. STA = 29+45.47
SE ATTAINED STA 22+27.95
TO STA 23+47.95 (1.50% TO 4.50%)
SE REMOVED STA 26+15.38
TO STA 29+45.47 (4.50% TO 2.90%)

PROP. KELLER DR. RAMP D CURVE C210
PI STA = 26+03.39
Δ = 4° 14' 44" (LT)
D = 3° 26' 28"
R = 1,665.00'
T = 61.72'
L = 123.38'
E = 1.14'
P.C. STA = 25+41.68
P.T. STA = 26+65.05

PROP. KELLER DR. RAMP B CURVE C132
PI STA. = 10+96.85
Δ = 35° 47' 02" (RT)
D = 19° 05' 55"
R = 300.00'
T = 96.85'
L = 187.36'
E = 15.25'
P.C. STA. = 10+00.00
P.T. STA. = 11+87.36

PROP. KELLER DR. RAMP A CURVE C56
PI STA = 15+02.68
Δ = 2° 26' 29" (LT)
D = 1° 16' 24"
R = 4,500.00'
T = 95.88'
L = 191.74'
E = 1.02'
P.C. STA = 14+06.79
P.T. STA = 15+98.53

PROP. KELLER DR. RAMP A CURVE C55
PI STA = 11+67.94
Δ = 2° 57' 46" (LT)
D = 1° 08' 45"
R = 5,000.00'
T = 129.30'
L = 258.55'
E = 1.67'
P.C. STA = 10+38.64
P.T. STA = 12+97.19

PROP. KELLER DRIVE RAMP C CURVE C30
PI STA = 11+67.82
Δ = 6° 11' 41" (RT)
D = 2° 47' 42"
R = 2,050.00'
T = 110.93'
L = 221.64'
E = 3.00'
P.C. STA = 10+56.89
P.T. STA = 12+78.53

PROP. KELLER DR. RAMP C CURVE C63
PI STA = 19+80.94
Δ = 52° 39' 51" (RT)
D = 7° 32' 20"
R = 760.00'
T = 376.15'
L = 698.57'
E = 87.99'
e = 8.00%
T.R. = N/A
S.E. RUN = N/A
P.C. STA = 16+04.79
P.T. STA = 23+03.36
SE ATTAINED STA 14+64.79
TO STA 16+74.79 (2.90% TO 8.00%)
SE REMOVED STA 21+77.36
TO STA 23+03.36 (8.00% TO 4.06%)

PROP. KELLER DR. RAMP B CURVE C129
PI STA = 34+47.11
Δ = 7° 34' 12" (RT)
D = 0° 56' 42"
R = 6,062.53'
T = 401.07'
L = 800.98'
E = 13.25'
P.C. STA = 30+46.04
P.T. STA = 38+47.02

NOTE: FOR EXISTING ALIGNMENTS AND CONTROLS PRESENTED ON THIS SHEET SEE HORIZONTAL CONTROL SHEET

0 100' 200'

FILE NAME = S:\Projects\483-98072_57-70\dgn\KL_Keller\geoKEL.dgn	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERCHANGE LAYOUT, FAI 57/70 AT KELLER DRIVE	F.A.I. RTE. 57/70	SECTION (25-3,4)R	COUNTY EFFINGHAM	TOTAL SHEETS 1098	SHEET NO. 208
		DRAWN - PDB	REVISED -							
	PLOT SCALE = 200.0000 ' / IN.	CHECKED - BRM	REVISED -		SCALE: 1"=100' / SHEET NO. 1 OF 1 SHEETS / STA. 2180+00.00 TO STA. 2228+00.00	CONTRACT NO. 74299				
	PLOT DATE = 3/18/2011	DATE - 3-17-08	REVISED -			FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STA 30+47.15 (RAMP A) =
STA 185+26.17 KELLER DRIVE

STA 10+00.00 (RAMP D) =
STA 181+12.09 KELLER DRIVE

STA. 2200+73.51 FAI 57/70 =
STA. 177+72.95 ℄ KELLER AVE.

PC STA 10+00.00 (RAMP B) =
STA 173+42.77, 45.26' RT
KELLER DRIVE

STA 27+49.68 (RAMP C) =
STA 168+94.24 KELLER DRIVE

EXISTING ROW LINE

MATCH LINE STA 2184+00.00

MATCH LINE STA 2215+00.00

℄ RAMP A

℄ RAMP B

℄ RAMP C

℄ RAMP D

℄ RAMP E

℄ FAI 57/70

FAI 57/70 WB

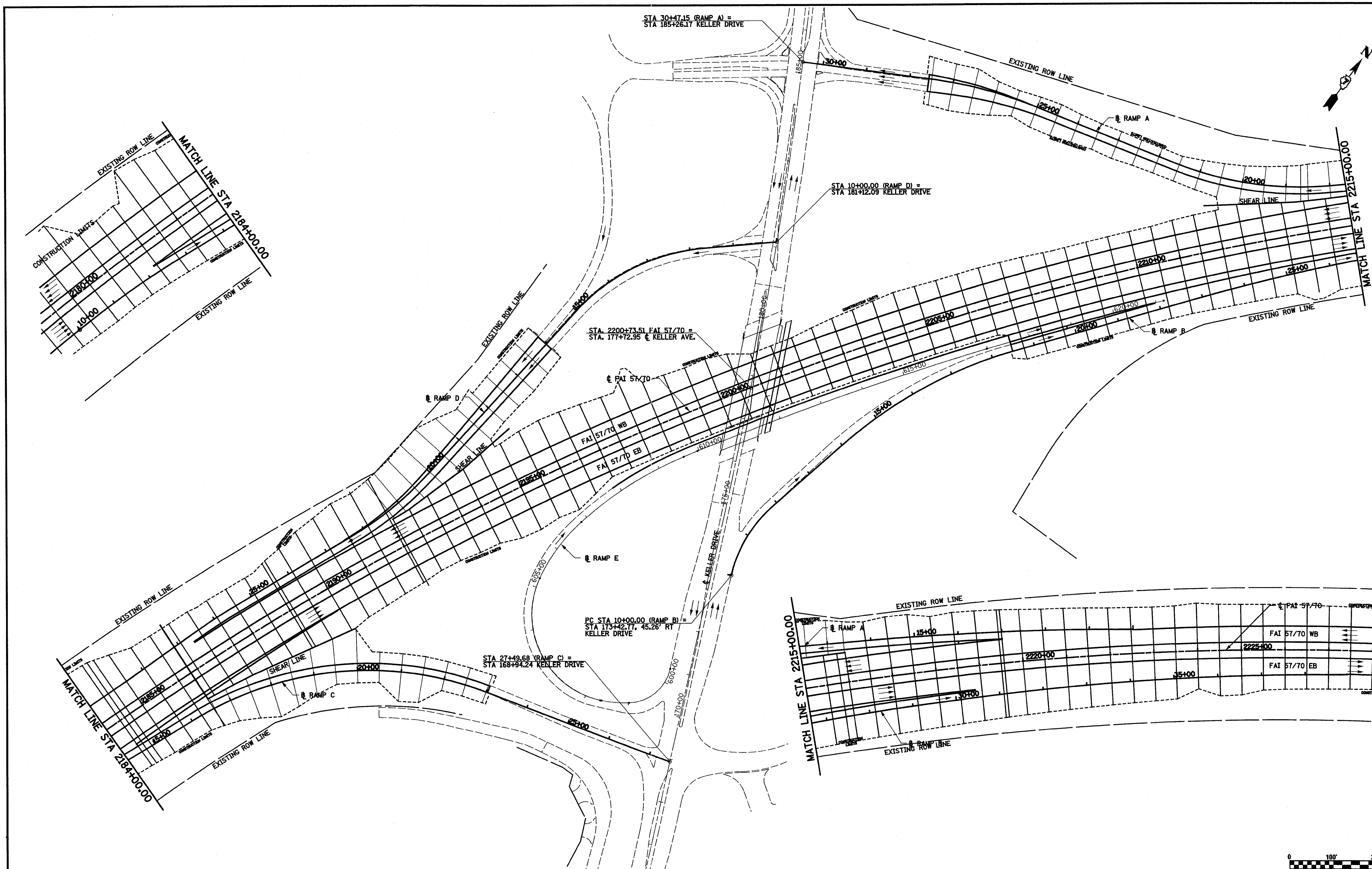
FAI 57/70 EB

℄ KELLER DRIVE

0 100' 200'

FILE NAME = S:\Projects\083-00072_57-70\dgn\ML_Keller'srp_RE1.dgn	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERCHANGE ROADWAY PLAN, FAI 57/70 AT KELLER DRIVE
		DRAWN - PDB	REVISED -		
	PLOT SCALE = 200.0000 ' / IN.	CHECKED - BRM	REVISED -		
	PLOT DATE = 3/18/2011	DATE - 6-5-08	REVISED -		SCALE: 1"=100' SHEET NO. 1 OF 1 SHEETS STA. 2180+00.00 TO STA. 2228+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	209
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FILE NAME = S:\Projects\403-00072_57-70\dgn\H_Keller\sidplan_KEL.dgn	USER NAME = bseibel	DESIGNED - JWS	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 200.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/17/2011	DATE -	REVISED -

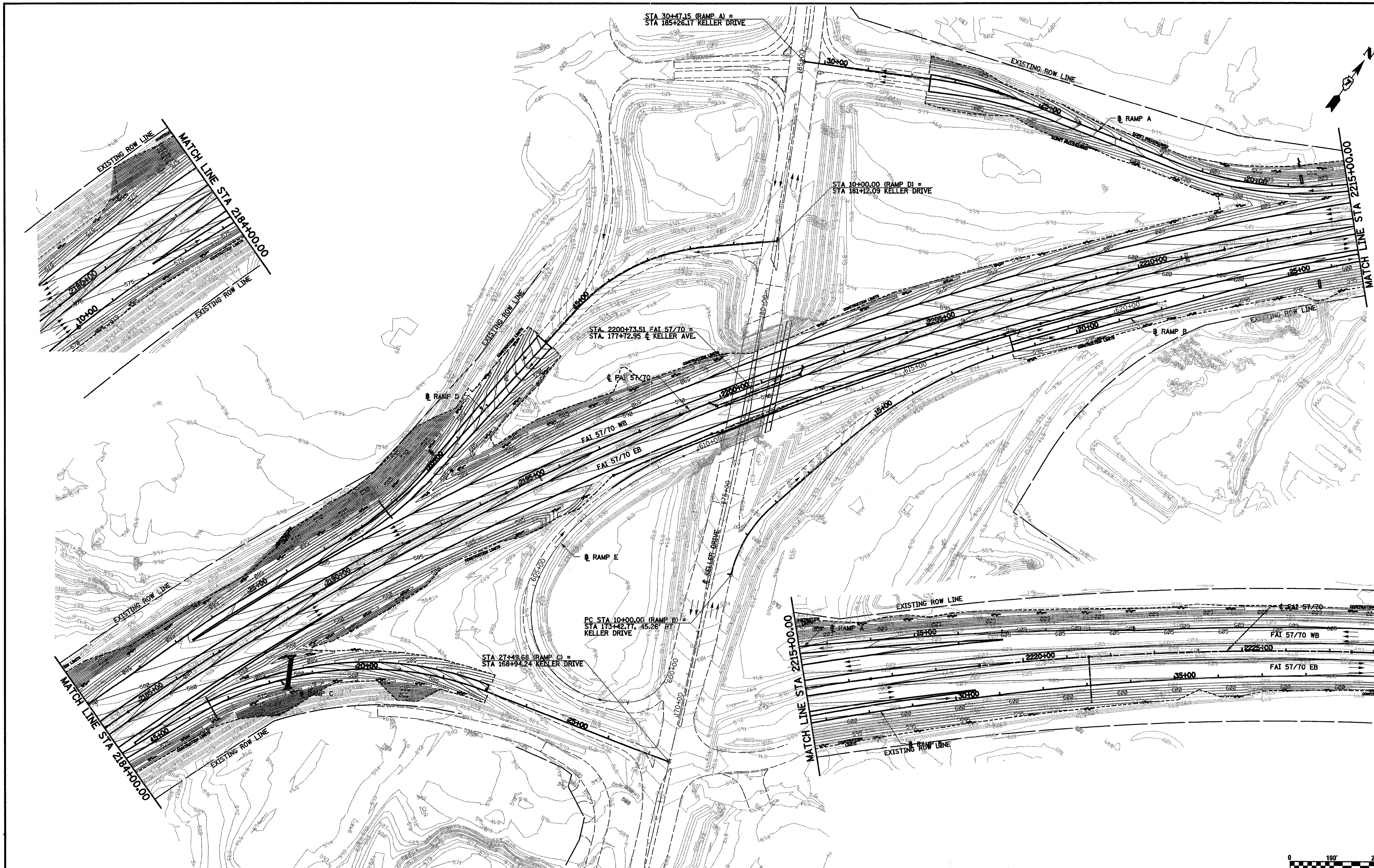
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCHANGE SHEAR LINE DETAIL, FAI 57/70 AT KELLER DRIVE

SCALE: 1"=100' | SHEET NO. 1 OF 1 SHEETS | STA. 2180+00.00 TO STA. 2228+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	210
		CONTRACT NO. 74299		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



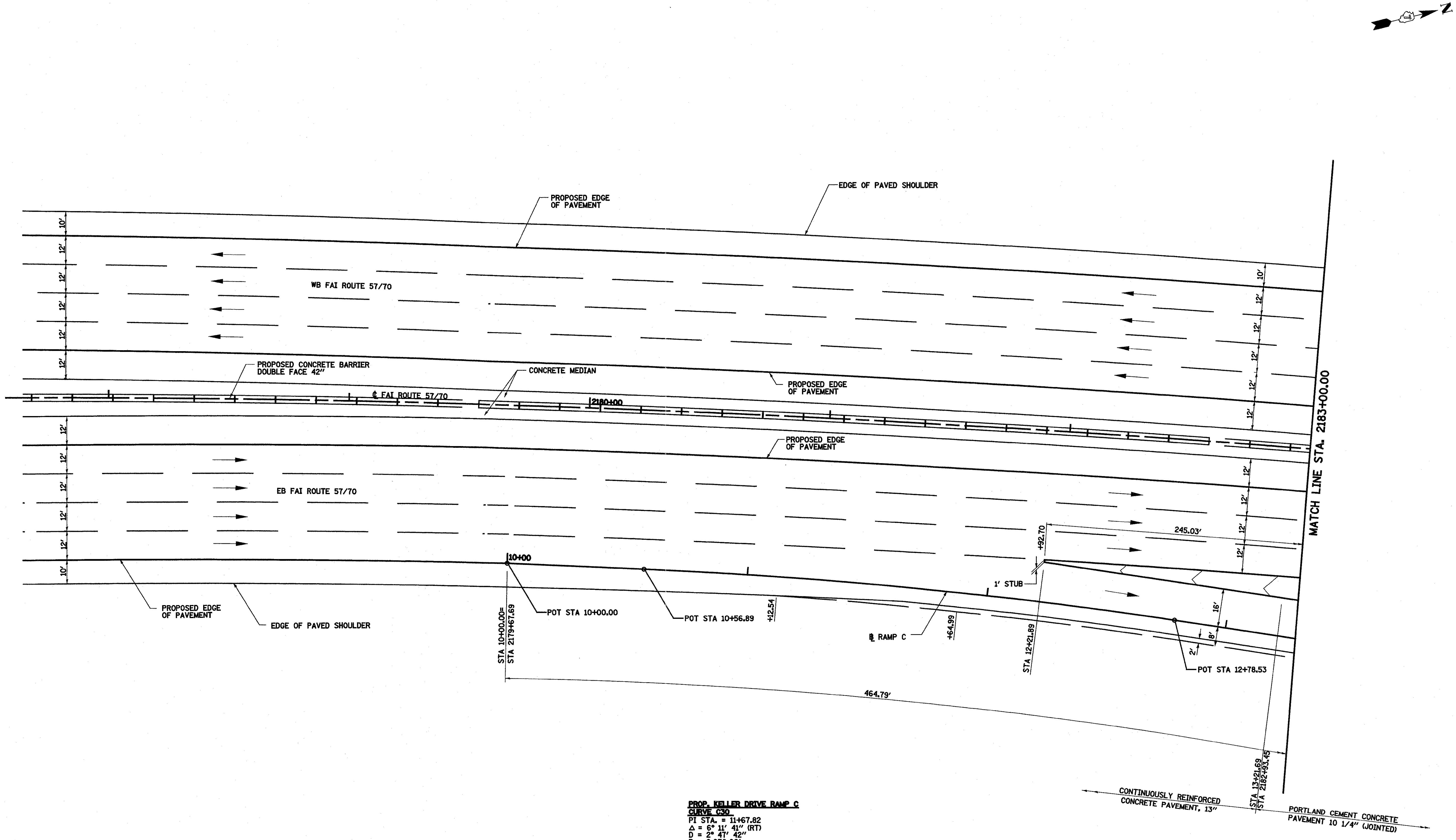
FILE NAME = S:\Projects\403-00072_57-70\dgn\HL_Keller\sgplan.KEL.dgn	USER NAME = bseibel	DESIGNED - JWS	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 200.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/17/2011	DATE - 6-5-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCHANGE GRADING PLAN, FAI 57/70 AT KELLER DRIVE

SCALE: 1"=100'	SHEET NO. 1 OF 1 SHEETS	STA. 2180+00.00 TO STA. 2228+10.25

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	211
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

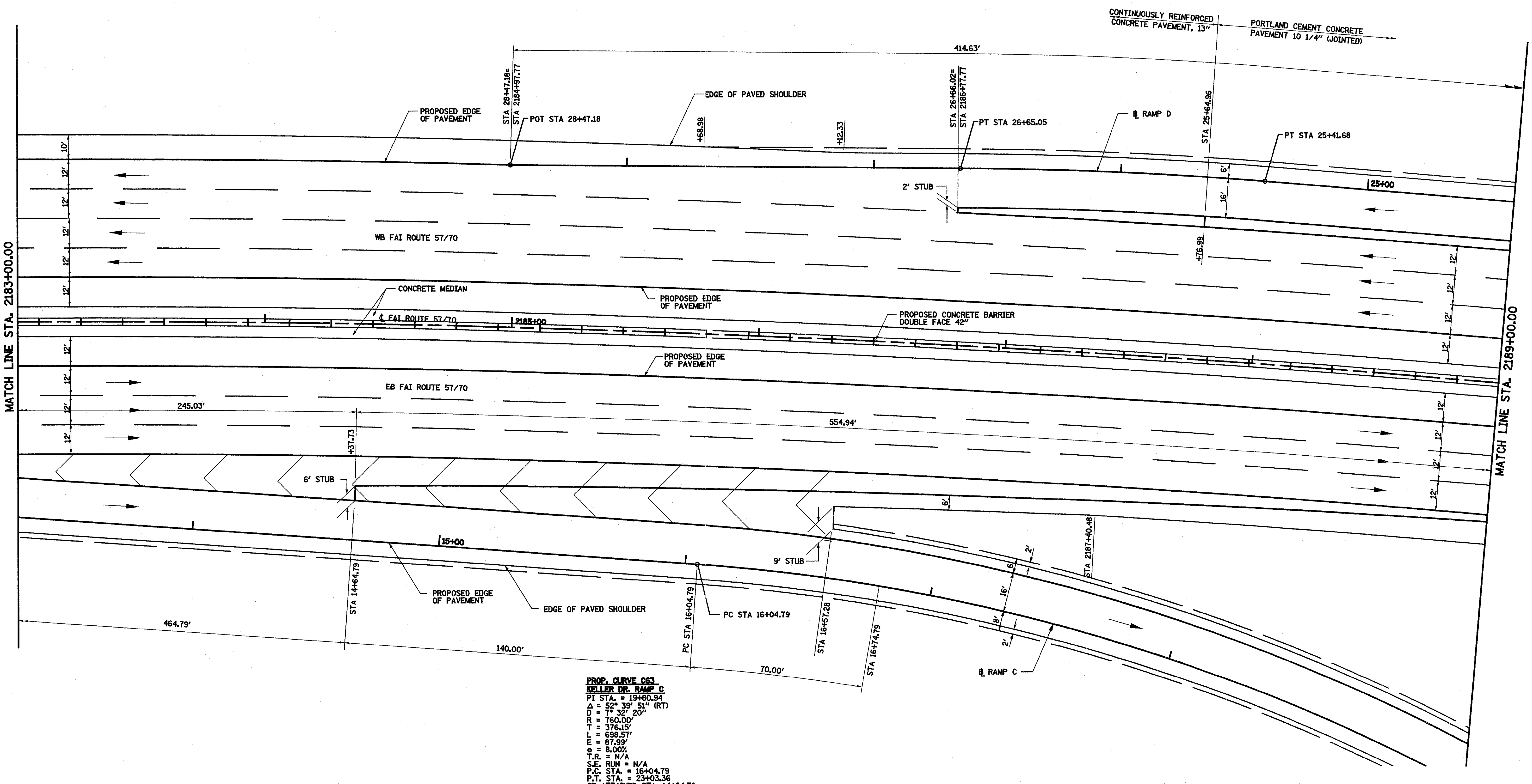


PROP. KELLER DRIVE RAMP C
CURVE C30
PI STA. = 11+67.82
Δ = 6° 11' 41" (RT)
D = 2° 47' 42"
R = 2,050.00'
T = 110.93'
L = 221.64'
E = 3.00'
P.C. STA. = 10+56.89
P.T. STA. = 12+78.53

FILE NAME = S:\Projects\403-00072_57-70\dgn\M_Keller\c.ramp.details.dgn	USER NAME = John	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERCHANGE RAMP TERMINAL DETAIL, RAMPS C & D, KELLER DRIVE	
		DRAWN - PDB	REVISED -			
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -			
	PLOT DATE = 3/20/2011	DATE - 4-25-08	REVISED -		SCALE: 1"=20'	SHEET NO. 1 OF 7 SHEETS	STA. 2178+00.00 TO STA. 2183+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	212
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROP. KELLER DR.
RAMP D CURVE C210
PI STA. = 26+03.39
Δ = 4° 14' 44" (LT)
D = 3° 26' 28"
R = 1,665.00'
T = 61.72'
L = 123.38'
E = 1.14'
P.C. STA. = 25+41.68
P.T. STA. = 26+65.05



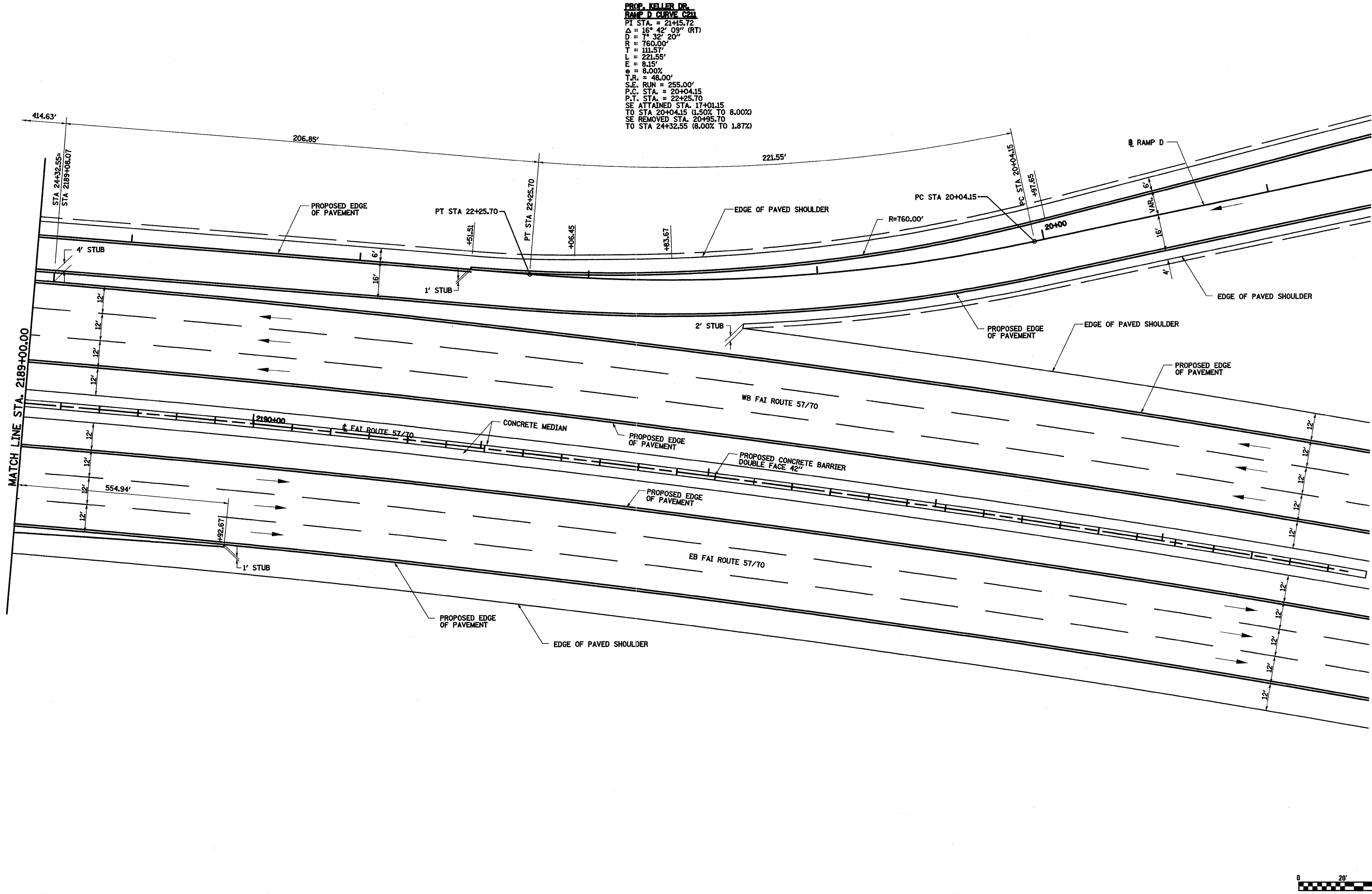
PROP. CURVE C63
KELLER DR. RAMP C
PI STA. = 19+80.94
Δ = 52° 39' 51" (RT)
D = 7° 32' 20"
R = 760.00'
T = 376.15'
L = 698.57'
E = 87.99'
e = 8.00%
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 16+04.79
P.T. STA. = 23+03.36
SE ATTAINED STA. 14+64.79
TO STA 16+74.79 (2.90% TO 8.00%)
SE REMOVED STA. 21+77.36
TO STA 23+03.36 (8.00% TO 4.06%)

FILE NAME = S:\Projects\483-00072_57-70\dgn\ML_Keller\s_ramp_details.dgn	USER NAME = John	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - PDB	REVISED -	
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -	
	PLOT DATE = 3/28/2011	DATE - 4-25-08	REVISED -	

INTERCHANGE RAMP TERMINAL DETAIL, RAMPS C & D, KELLER DRIVE

SCALE: 1"=20'	SHEET NO. 2 OF 7 SHEETS	STA. 2183+00.00 TO STA. 2189+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	213
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		


PROP. KELLER DR.
RAMP D CURVE C211
PI STA. = 21+15.72
Δ = 16° 42' 09" (RT)
D = 7° 32' 20"
R = 760.00'
T = 111.57'
L = 221.55'
E = 8.15'
e = 8.00%
T.R. = 48.00'
S.E. RUN = 255.00'
P.C. STA. = 20+04.15
P.T. STA. = 22+25.70
SE ATTAINED STA. 17+01.15
TO STA 20+04.15 (1.50% TO 8.00%)
SE REMOVED STA. 20+95.70
TO STA 24+32.55 (8.00% TO 1.87%)
414.63'
206.85'
221.55'
STA 24+32.55=
STA 2189+08.07
PROPOSED EDGE OF PAVEMENT
PT STA 22+25.70
PT STA 22+25.70
+51.51
+06.45
+83.67
EDGE OF PAVED SHOULDER
R=760.00'
PC STA 20+04.15
PC STA 20+04.15
+97.65
20+00
RAMP D
4' STUB
1' STUB
2' STUB
EDGE OF PAVED SHOULDER
PROPOSED EDGE OF PAVEMENT
EDGE OF PAVED SHOULDER
PROPOSED EDGE OF PAVEMENT
MATCH LINE STA. 2189+00.00
WB FAI ROUTE 57/70
2190+00
FAI ROUTE 57/70
CONCRETE MEDIAN
PROPOSED EDGE OF PAVEMENT
PROPOSED CONCRETE BARRIER DOUBLE FACE 42"
554.94'
PROPOSED EDGE OF PAVEMENT
+92.67
1' STUB
EB FAI ROUTE 57/70
PROPOSED EDGE OF PAVEMENT
EDGE OF PAVED SHOULDER
0 20' 40'

FILE NAME = S:\Projects\483-88872_57-70\dgn\M_Keller\s.ramp_details.dgn	USER NAME = John	DESIGNED - ESW	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/20/2011	DATE - 4-25-08	REVISED -

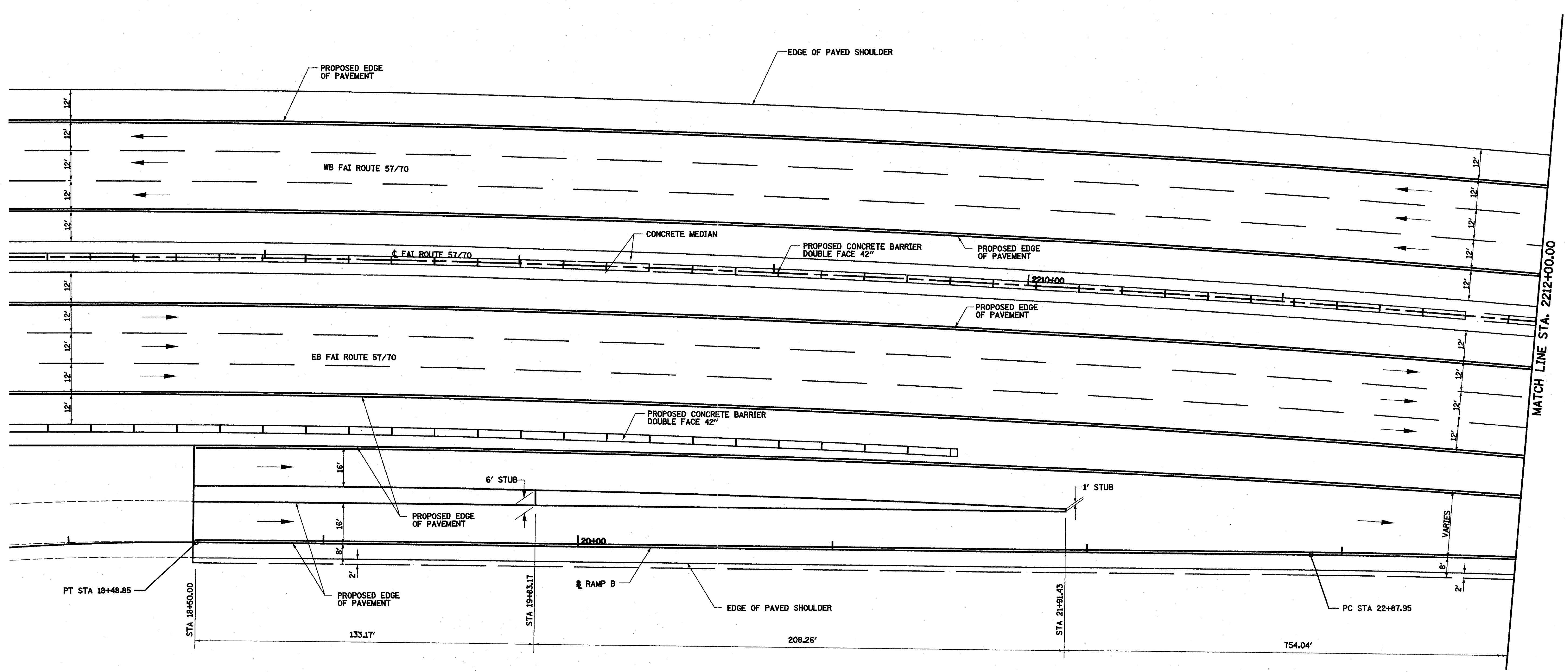
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCHANGE RAMP TERMINAL DETAIL, RAMPS C & D, KELLER DRIVE

SCALE: 1"=20' | SHEET NO. 3 OF 7 SHEETS | STA. 2183+00.00 TO STA. 2189+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	214
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROP. KELLER DR.
RAMP B CURVE C130
PI STA. = 26+17.30
Δ = 8° 25′ 37″ (RT)
D = 1° 16′ 54″
R = 4,470.56′
T = 329.36′
L = 657.53′
E = 12.12′
e = 4.50%
T.R. = N/A
S.E. RUN = 120.00′
P.C. STA. = 22+87.95
P.T. STA. = 29+45.47
SE ATTAINED STA. 22+27.95
TO STA 23+47.95 (1.50% TO 4.50%)
SE REMOVED STA. 26+15.38
TO STA 29+45.47 (4.50% TO 2.90%)



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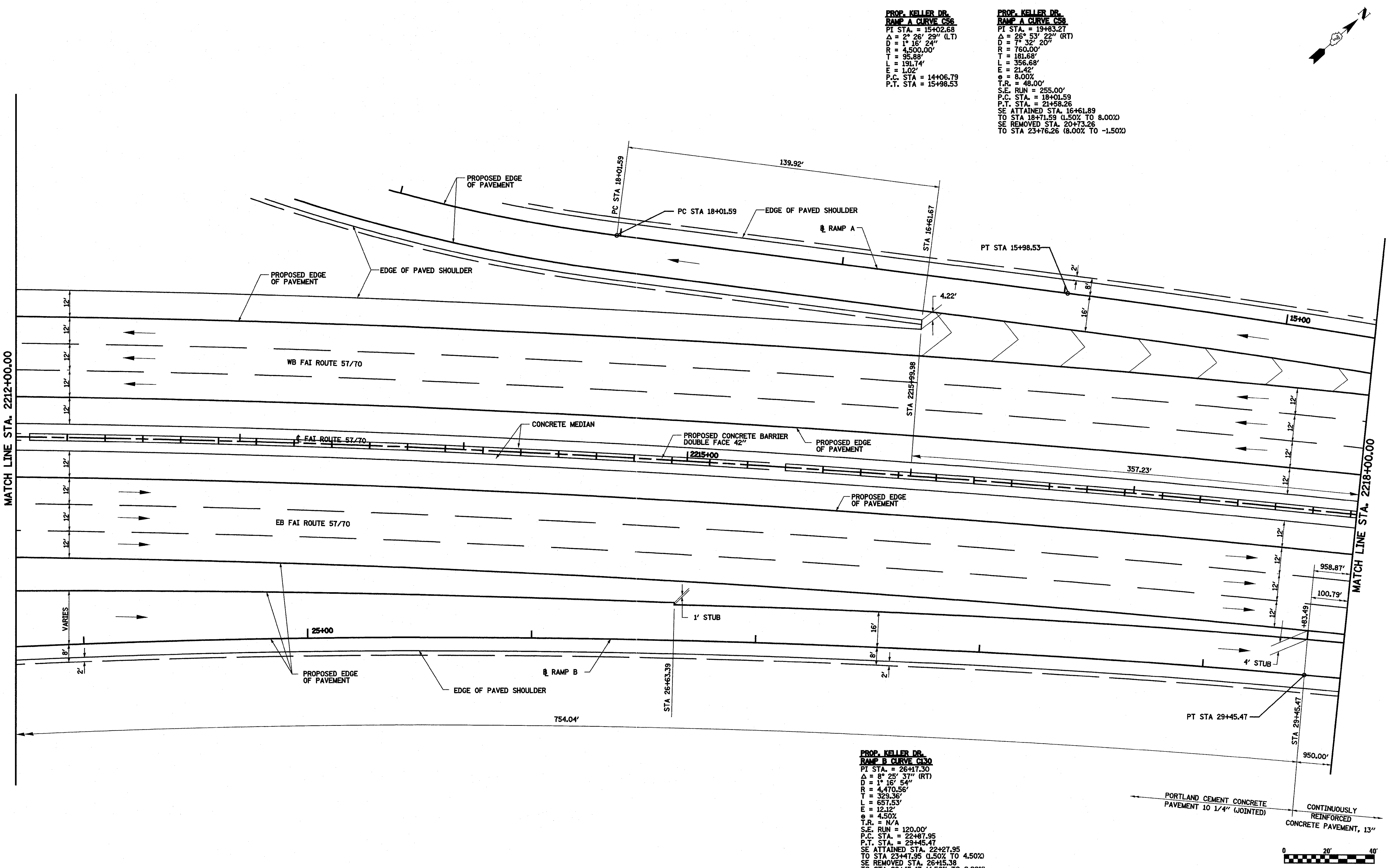
		DRAWN - PDB	REVISED -
	PLOT SCALE = 40.0000 ′ / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/20/2011	DATE - 4-25-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCHANGE RAMP TERMINAL DETAIL, RAMP B, KELLER DRIVE

SCALE: 1″=20′ | SHEET NO. 4 OF 7 SHEETS | STA. 2206+00.00 TO STA. 22120.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	215
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PROP. KELLER DR.
RAMP A CURVE C56
PI STA. = 15+02.68
Δ = 2° 26' 29" (LT)
D = 1° 16' 24"
R = 4,500.00'
T = 95.88'
L = 191.74'
E = 1.02'
P.C. STA = 14+06.79
P.T. STA = 15+98.53

PROP. KELLER DR.
RAMP A CURVE C58
PI STA. = 19+83.27
Δ = 26° 53' 22" (RT)
D = 7° 32' 20"
R = 760.00'
T = 181.68'
L = 356.68'
E = 21.42'
e = 8.00%
T.R. = 48.00'
S.E. RUN = 255.00'
P.C. STA. = 18+01.59
P.T. STA. = 21+58.26
SE ATTAINED STA. 16+61.89
TO STA 18+71.59 (1.50% TO 8.00%)
SE REMOVED STA. 20+73.26
TO STA 23+76.26 (8.00% TO -1.50%)

PROP. KELLER DR.
RAMP B CURVE C130
PI STA. = 26+17.30
Δ = 8° 25' 37" (RT)
D = 1° 16' 54"
R = 4,470.56'
T = 329.36'
L = 657.53'
E = 12.12'
e = 4.50%
T.R. = N/A
S.E. RUN = 120.00'
P.C. STA. = 22+87.95
P.T. STA. = 29+45.47
SE ATTAINED STA. 22+27.95
TO STA 23+47.95 (1.50% TO 4.50%)
SE REMOVED STA. 26+15.38
TO STA 29+45.47 (4.50% TO 2.90%)

FILE NAME =	USER NAME = John	DESIGNED - ESW	REVISED -
S:\Projects\403-80072.57-70\dgn\4_Keller\s_ramp_detail.dgn		DRAWN - PDB	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/20/2011	DATE - 4-25-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

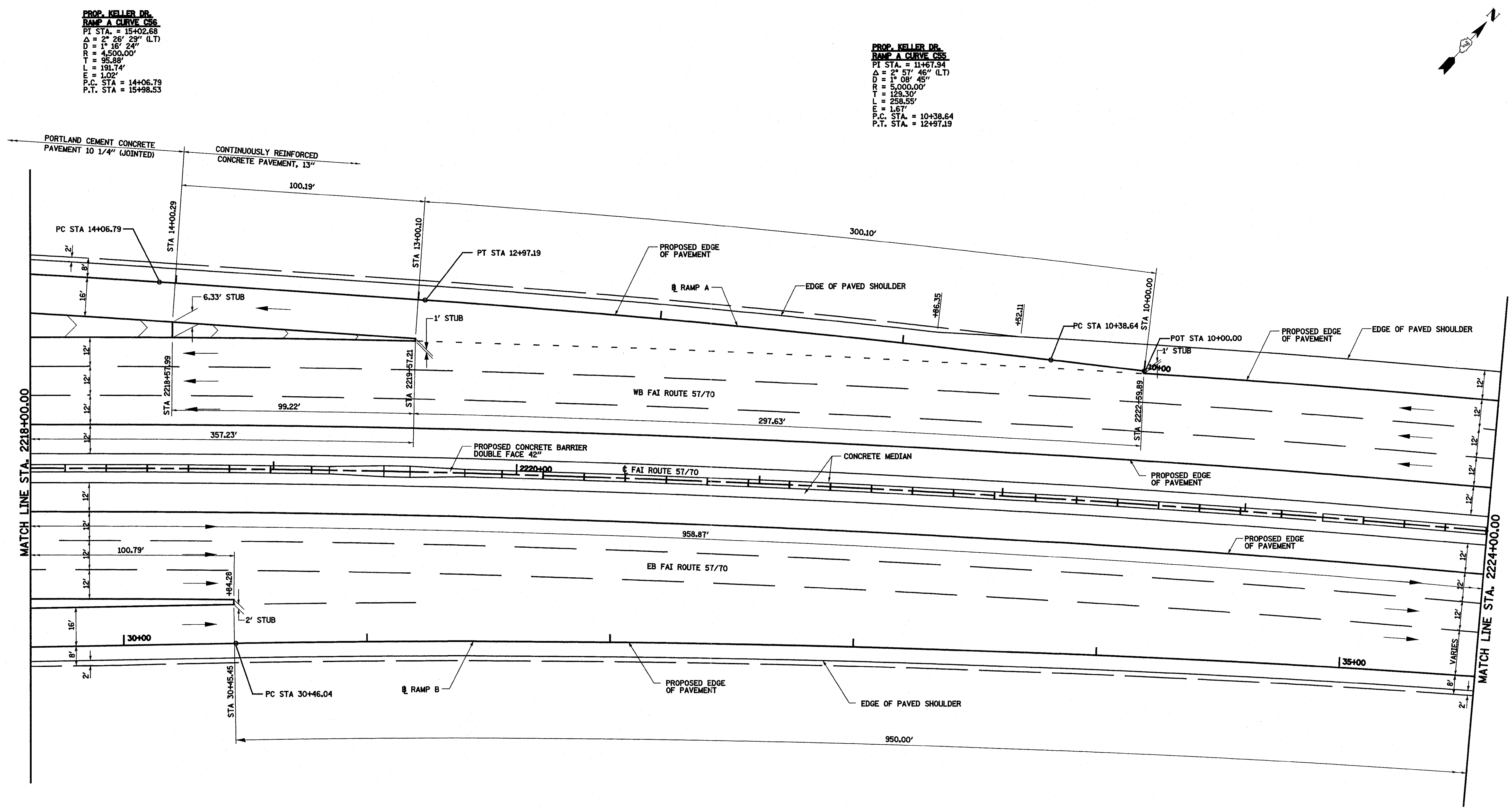
INTERCHANGE RAMP TERMINAL DETAIL, RAMPS A & B, KELLER DRIVE

SCALE: 1"=20' | SHEET NO. 5 OF 7 SHEETS | STA. 2212+00.00 TO STA. 2218+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	216
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROP. KELLER DR.
RAMP A CURVE C56
PI STA. = 15+02.68
Δ = 2° 26' 29" (LT)
D = 1° 16' 24"
R = 4,500.00'
T = 95.88'
L = 191.74'
E = 1.02'
P.C. STA = 14+06.79
P.T. STA = 15+98.53

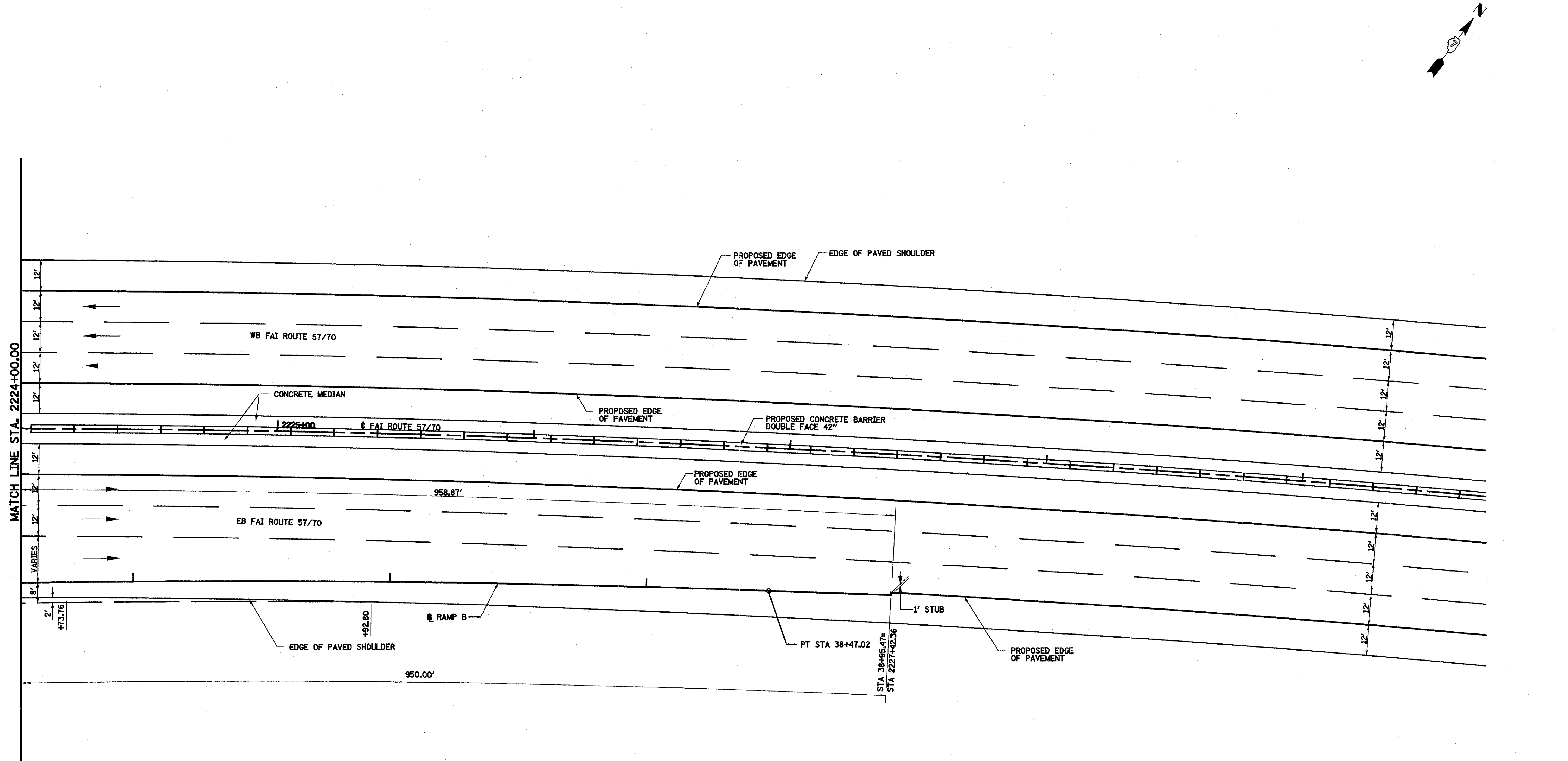
PROP. KELLER DR.
RAMP A CURVE C55
PI STA. = 11+67.94
Δ = 2° 57' 46" (LT)
D = 1° 08' 45"
R = 5,000.00'
T = 129.30'
L = 258.55'
E = 1.67'
P.C. STA. = 10+38.64
P.T. STA. = 12+97.19



PROP. KELLER DR.
RAMP B CURVE C129
PI STA. = 34+47.11
Δ = 7° 34' 12" (RT)
D = 0° 56' 42"
R = 6,062.53'
T = 401.07'
L = 800.98'
E = 13.25'
P.C. STA. = 30+46.04
P.T. STA. = 38+47.02

0 20' 40'

FILE NAME =	USER NAME = John	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERCHANGE RAMP TERMINAL DETAIL, RAMPS A & B, KELLER DRIVE	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\Projects\...keller\s.ramp.details.dgn		DRAWN - PDB	REVISED -			57/70	(25-3,4)R	EFFINGHAM	1098	217
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -					CONTRACT NO. 74299		
	PLOT DATE = 3/20/2011	DATE - 4-25-08	REVISED -		SCALE: 1"=20' / SHEET NO. 6 OF 7 SHEETS / STA. 2218+00.00 TO STA. 2224+00.00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



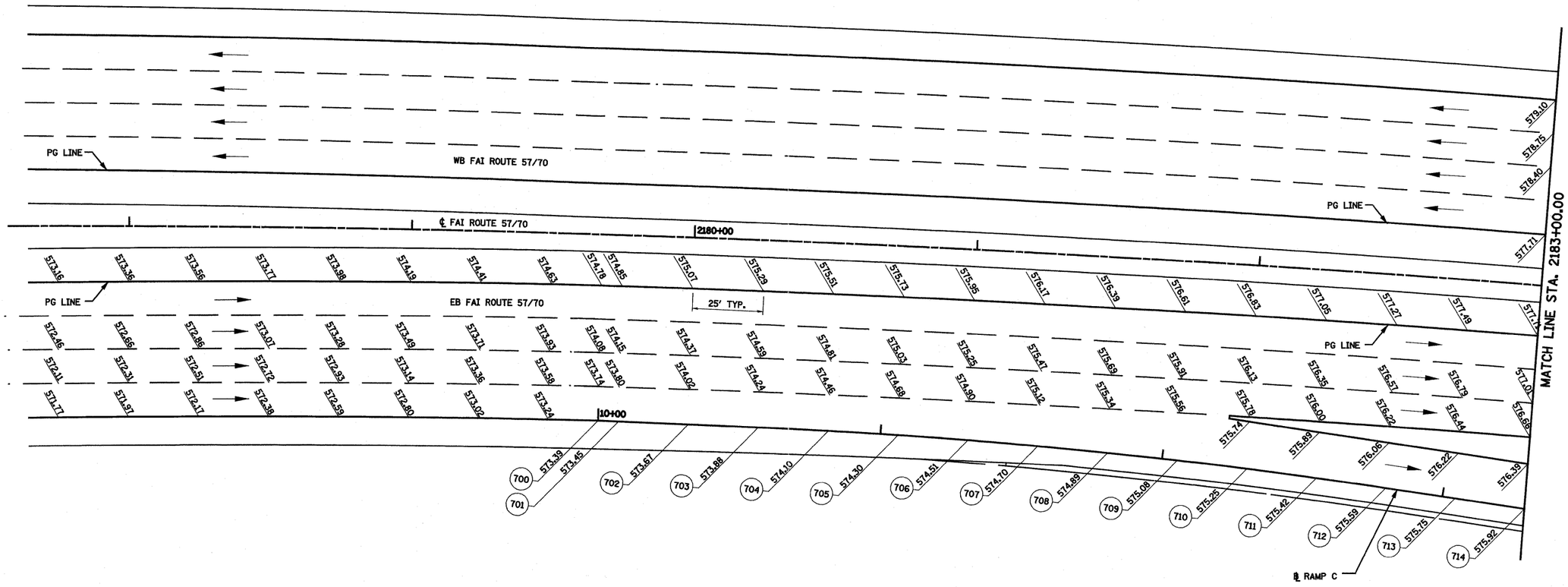
PROP. KELLER DR.
RAMP B CURVE C129
PI STA. = 34+47.11
Δ = 7° 34' 12" (RT)
D = 0° 56' 42"
R = 6,062.53'
T = 401.07'
L = 800.98'
E = 13.25'
P.C. STA. = 30+46.04
P.T. STA. = 38+47.02

0 20' 40'

FILE NAME = S:\Projects\403-00072.57-70\dgn\M_Keller\i_ramp_details.dgn	USER NAME = John	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - PDB	REVISED -	
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -	
	PLOT DATE = 3/20/2011	DATE - 4-25-08	REVISED -	

INTERCHANGE RAMP TERMINAL DETAIL, RAMPS A & B, KELLER DRIVE		
SCALE: 1"=20'	SHEET NO. 7 OF 7 SHEETS	STA. 2224+00.00 TO STA. 2228+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	218
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



KELLER RAMP C						
POINT	ELEVATION	NORTHING	EASTING	ROADWAY STATION	℄ ROADWAY OFFSET	RAMP STATION
EB FAI ROUTE 57/70						
700	573.39	896,875.99	918,369.31	2179+67.69	66.00	10+00.00
701	573.45	896,882.94	918,371.34	2179+75.00	66.09	10+07.24
702	573.67	896,906.71	918,378.29	2180+00.00	66.32	10+32.00
703	573.88	896,930.47	918,385.23	2180+25.00	66.46	10+56.76
704	574.10	896,954.19	918,392.32	2180+50.00	66.66	10+81.52
705	574.30	896,977.83	918,399.69	2180+75.00	67.08	11+06.28
706	574.51	897,001.38	918,407.35	2181+00.00	67.69	11+31.04
707	574.70	897,024.84	918,415.29	2181+25.00	68.52	11+55.81
708	574.89	897,048.20	918,423.52	2181+50.00	69.56	11+80.58
709	575.08	897,071.47	918,432.03	2181+75.00	70.81	12+05.36
710	575.25	897,094.64	918,440.83	2182+00.00	72.27	12+30.14
711	575.42	897,117.71	918,449.90	2182+25.00	73.93	12+54.93
712	575.59	897,140.68	918,459.26	2182+50.00	75.81	12+79.73
713	575.75	897,163.59	918,468.74	2182+75.00	77.73	13+04.53
714	575.92	897,186.48	918,478.22	2183+00.00	79.56	13+29.31

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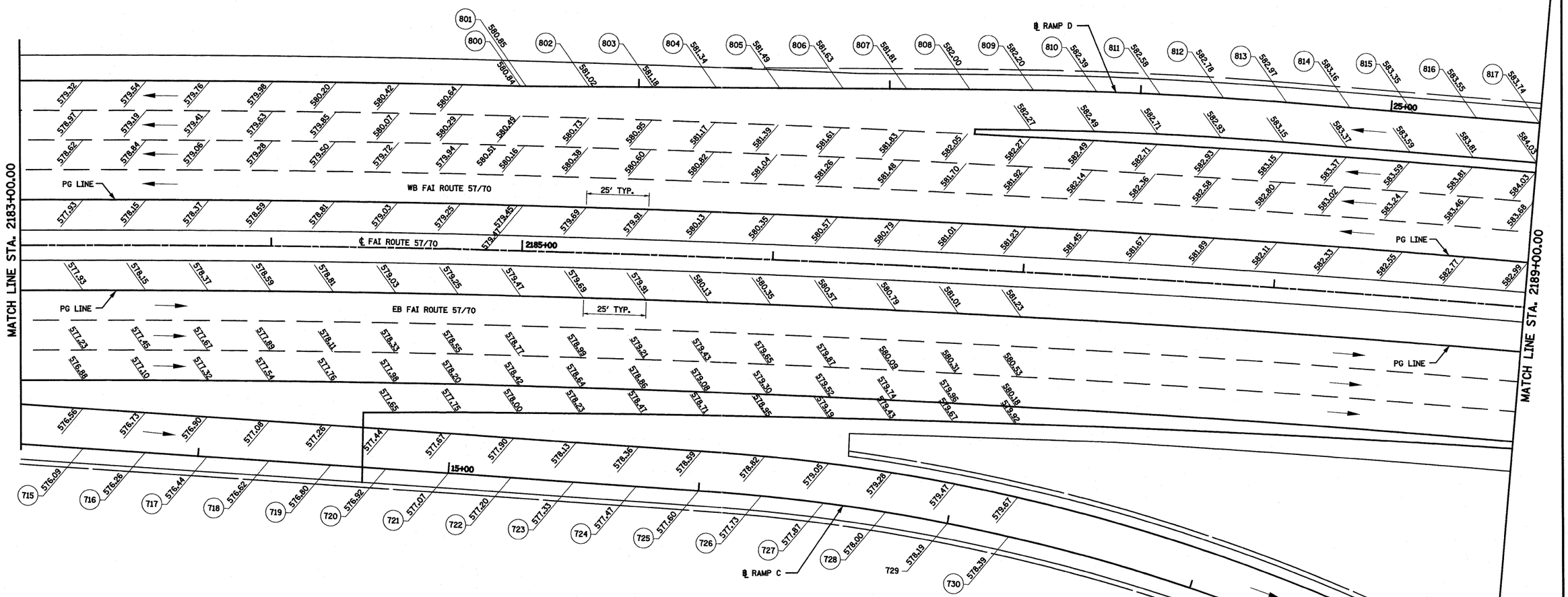
		DRAWN - PDB	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/17/2011	DATE - 4-23-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT ELEVATION DETAIL, RAMP D AND C, KELLER AVE.

SCALE: 1"=20' | SHEET NO. 1 OF 7 SHEETS | STA. 2178+00.00 TO STA. 2183+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	219
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



KELLER RAMP C

POINT	ELEVATION	NORTHING	EASTING	ROADWAY STATION	℄ ROADWAY OFFSET	RAMP STATION
EB FAI ROUTE 57/70						
715	576.09	897,209.37	918,487.69	2183+25.00	81.30	13+54.08
716	576.26	897,232.25	918,497.16	2183+50.00	82.95	13+78.83
717	576.44	897,255.11	918,506.62	2183+75.00	84.51	14+03.58
718	576.62	897,277.96	918,516.08	2184+00.00	85.98	14+28.31
719	576.80	897,300.81	918,525.53	2184+25.00	87.35	14+53.04
KELLER RAMP C						
720	576.92	897,321.10	918,533.93			14+75.00
721	577.07	897,344.20	918,543.49			15+00.00
722	577.20	897,367.30	918,553.05			15+25.00
723	577.33	897,390.40	918,562.61			15+50.00
724	577.47	897,413.50	918,572.17			15+75.00
725	577.60	897,436.60	918,581.73			16+00.00
726	577.73	897,459.60	918,591.54			16+25.00
727	577.87	897,482.26	918,602.09			16+50.00
728	578.00	897,504.57	918,613.37			16+75.00
729	578.19	897,526.49	918,625.38			17+00.00
730	578.39	897,548.01	918,638.11			17+25.00

KELLER RAMP D

POINT	ELEVATION	NORTHING	EASTING	ROADWAY STATION	℄ ROADWAY OFFSET	RAMP STATION
WB FAI ROUTE 57/70						
800	580.84	897,420.89	918,405.64	2184+97.77	66.00	28+47.18
801	580.85	897,423.03	918,406.37	2185+00.00	66.05	28+44.92
802	581.02	897,446.92	918,414.53	2185+25.00	66.60	28+19.68
803	581.18	897,470.82	918,422.68	2185+50.00	67.26	27+94.42
804	581.34	897,494.72	918,430.85	2185+75.00	68.00	27+69.17
805	581.49	897,518.63	918,439.01	2186+00.00	68.83	27+43.90
806	581.63	897,542.54	918,447.17	2186+25.00	69.76	27+18.64
807	581.81	897,566.46	918,455.34	2186+50.00	70.78	26+93.36
808	582.00	897,590.39	918,463.51	2186+75.00	71.89	26+68.08
809	582.20	897,614.27	918,471.82	2187+00.00	72.94	26+42.79
810	582.39	897,638.01	918,480.49	2187+25.00	73.71	26+17.51
811	582.58	897,661.62	918,489.52	2187+50.00	74.18	25+92.24
812	582.78	897,685.08	918,498.90	2187+75.00	74.36	25+66.97
813	582.97	897,708.40	918,508.64	2188+00.00	74.25	25+41.70
814	583.16	897,731.65	918,518.55	2188+25.00	74.04	25+16.43
815	583.35	897,754.89	918,528.46	2188+50.00	73.92	24+91.16
816	583.55	897,778.13	918,538.38	2188+75.00	73.89	24+65.89
817	583.74	897,801.38	918,548.29	2189+00.00	73.96	24+40.62

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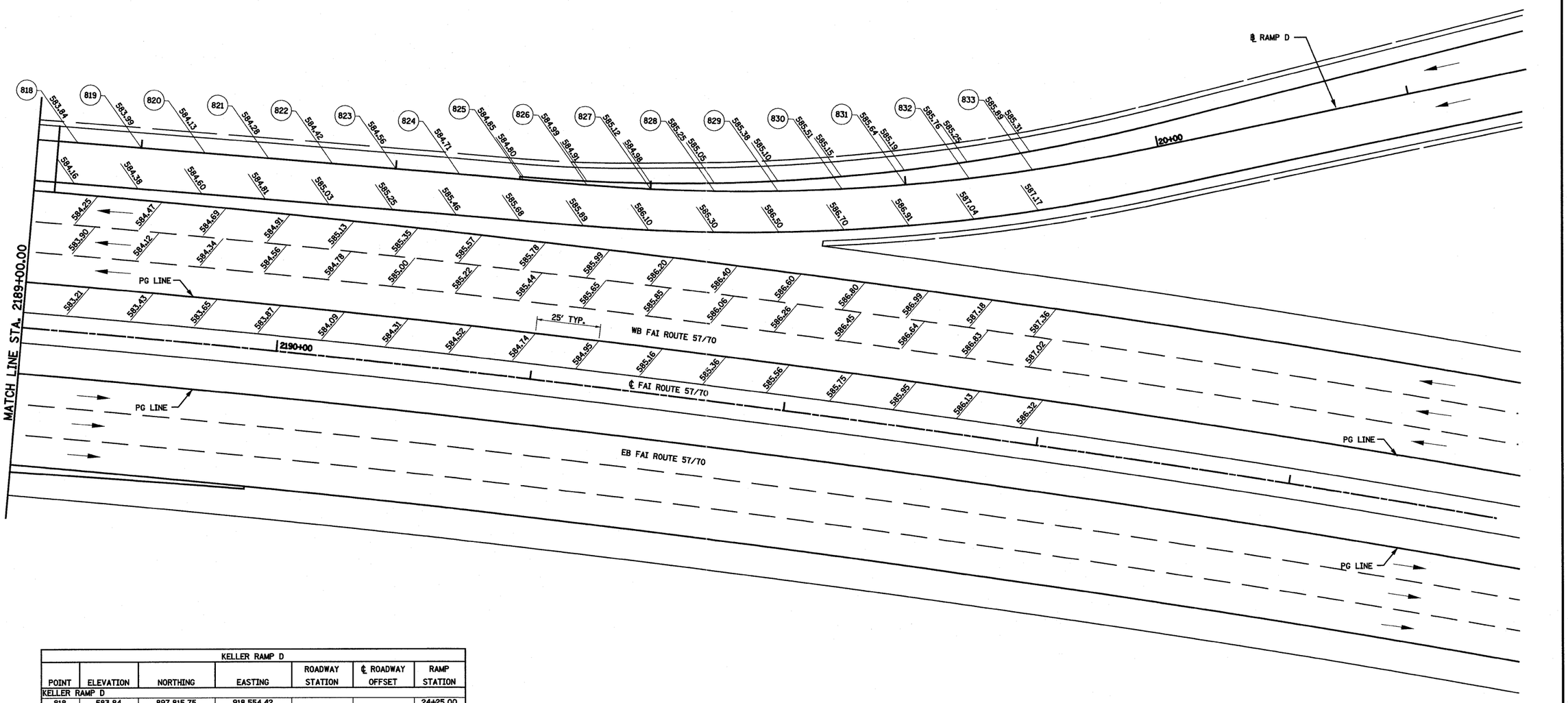
		DRAWN - PDB	REVISED -	
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -	
	PLOT DATE = 3/17/2011	DATE - 4-23-08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT ELEVATION DETAIL, RAMP D AND C, KELLER AVE.

SCALE: 1"=20' | SHEET NO. 2 OF 7 SHEETS | STA. 2183+00.00 TO STA. 2189+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	220
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



KELLER RAMP D						
POINT	ELEVATION	NORTHING	EASTING	ROADWAY STATION	℄ ROADWAY OFFSET	RAMP STATION
KELLER RAMP D						
818	583.84	897,815.75	918,554.42			24+25.00
819	583.99	897,838.74	918,564.23			24+00.00
820	584.13	897,861.74	918,574.03			23+75.00
821	584.28	897,884.73	918,583.84			23+50.00
822	584.42	897,907.73	918,593.65			23+25.00
823	584.56	897,930.72	918,603.46			23+00.00
824	584.71	897,953.72	918,613.26			22+75.00
825	584.85	897,976.72	918,623.07			22+50.00
826	584.99	897,999.71	918,632.88			22+25.00
827	585.12	898,022.87	918,642.29			22+00.00
828	585.25	898,046.33	918,650.93			21+75.00
829	585.38	898,070.06	918,658.79			21+50.00
830	585.51	898,094.04	918,665.87			21+25.00
831	585.64	898,118.23	918,672.15			21+00.00
832	585.76	898,142.62	918,677.64			20+75.00
833	585.89	898,167.18	918,682.32			20+50.00

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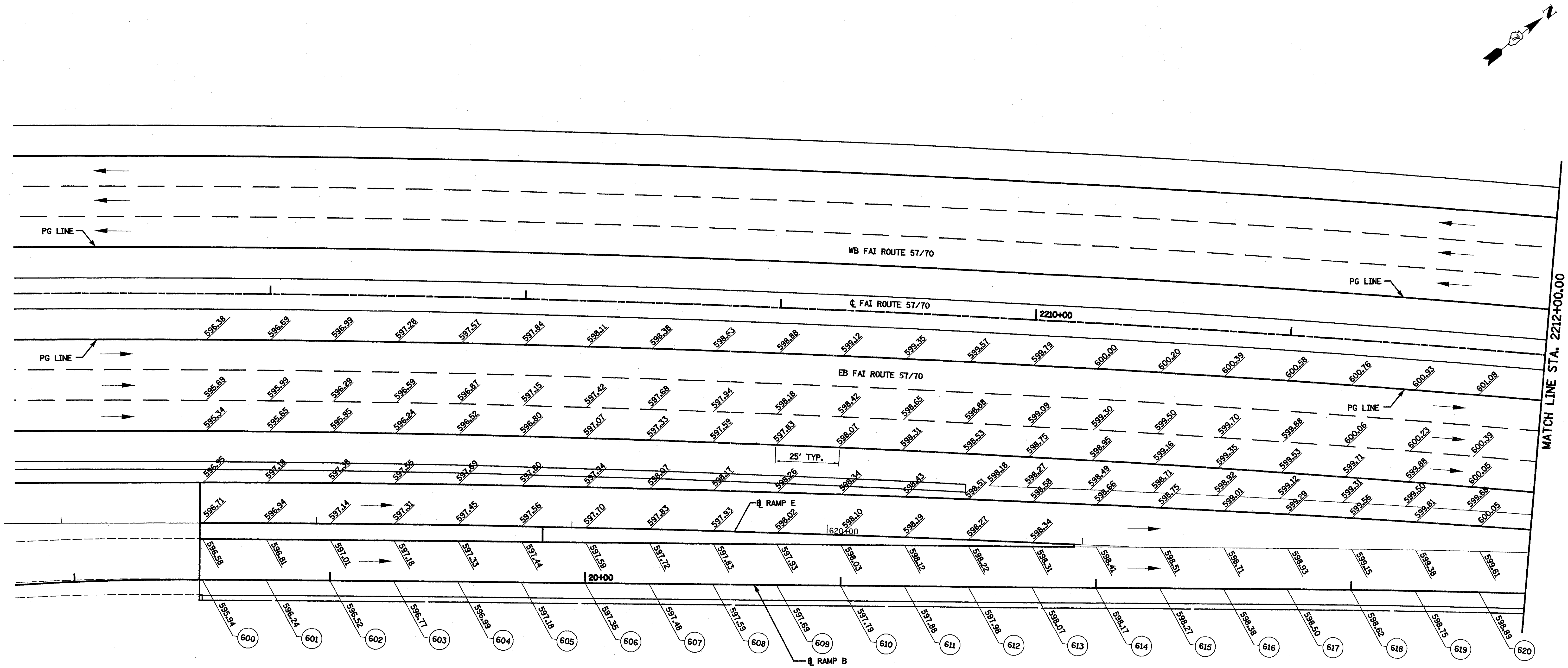
		DRAWN - PDB	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/17/2011	DATE - 4-23-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT ELEVATION DETAIL, RAMP D AND C, KELLER AVE.

SCALE: 1"=20' | SHEET NO. 3 OF 7 SHEETS | STA. 2189+00.00 TO STA. 2194+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	221
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



KELLER RAMP B						
POINT	ELEVATION	NORTHING	EASTING	ROADWAY STATION	℄ ROADWAY OFFSET	RAMP STATION
KELLER RAMP B						
600	595.94	899,223.18	919,608.82			18+50.00
601	596.24	899,242.82	919,624.29			18+75.00
602	596.52	899,262.46	919,639.75			19+00.00
603	596.77	899,282.10	919,655.22			19+25.00
604	596.99	899,301.75	919,670.69			19+50.00
605	597.18	899,321.39	919,686.15			19+75.00
606	597.35	899,341.03	919,701.62			20+00.00
607	597.48	899,360.67	919,717.09			20+25.00
608	597.59	899,380.31	919,732.55			20+50.00
609	597.69	899,399.95	919,748.02			20+75.00
610	597.79	899,419.59	919,763.49			21+00.00
611	597.88	899,439.24	919,778.95			21+25.00
612	597.98	899,458.88	919,794.42			21+50.00
613	598.07	899,478.52	919,809.89			21+75.00
614	598.17	899,498.16	919,825.35			22+00.00
615	598.27	899,517.80	919,840.82			22+25.00
616	598.38	899,537.44	919,856.29			22+50.00
617	598.50	899,557.08	919,871.75			22+75.00
618	598.62	899,576.71	919,887.23			23+00.00
619	598.75	899,596.27	919,902.81			23+25.00
620	598.89	899,615.74	919,918.49			23+50.00

0 20' 40'

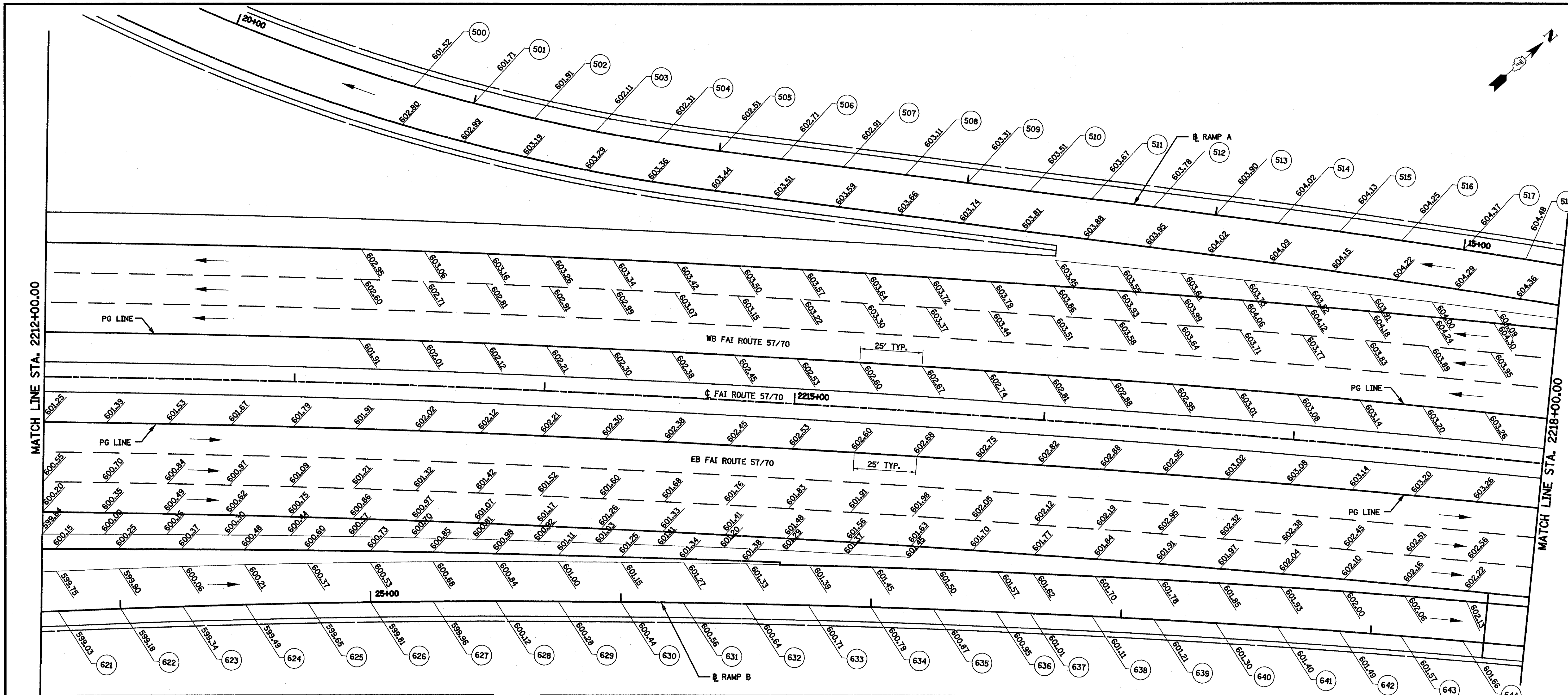
FILE NAME =	USER NAME = bseibel	DESIGNED - ESW	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/17/2011	DATE - 4-23-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT ELEVATION DETAIL, RAMP A AND B, KELLER AVE.

SCALE: 1"=20' | SHEET NO. 4 OF 7 SHEETS | STA. 2206+00.00 TO STA. 22120.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	222
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



KELLER RAMP A						
POINT	ELEVATION	NORTHING	EASTING	ROADWAY STATION	℄ ROADWAY OFFSET	RAMP STATION
KELLER RAMP A						
500	601.52	899,881.04	919,872.43			19+25.00
501	601.71	899,894.52	919,893.48			19+00.00
502	601.91	899,908.68	919,914.08			18+75.00
503	602.11	899,923.51	919,934.21			18+50.00
504	602.31	899,939.00	919,953.83			18+25.00
505	602.51	899,955.12	919,972.94			18+00.00
506	602.71	899,971.51	919,991.81			17+75.00
507	602.91	899,987.91	920,010.68			17+50.00
508	603.11	900,004.31	920,029.55			17+25.00
509	603.31	900,020.70	920,048.43			17+00.00
510	603.51	900,037.10	920,067.30			16+75.00
511	603.67	900,053.49	920,086.17			16+50.00
512	603.78	900,069.89	920,105.04			16+25.00
513	603.90	900,086.29	920,123.92			16+00.00
514	604.02	900,102.64	920,142.83			15+75.00
515	604.13	900,118.88	920,161.83			15+50.00
516	604.25	900,135.02	920,180.92			15+25.00
517	604.37	900,151.05	920,200.11			15+00.00
518	604.48	900,166.98	920,219.38			14+75.00

KELLER RAMP B						
POINT	ELEVATION	NORTHING	EASTING	ROADWAY STATION	℄ ROADWAY OFFSET	RAMP STATION
KELLER RAMP B						
621	599.03	899,635.12	919,934.28			23+75.00
622	599.18	899,654.41	919,950.18			24+00.00
623	599.34	899,673.62	919,966.19			24+25.00
624	599.49	899,692.73	919,982.31			24+50.00
625	599.65	899,711.75	919,998.53			24+75.00
626	599.81	899,730.68	920,014.86			25+00.00
627	599.96	899,749.52	920,031.29			25+25.00
628	600.12	899,768.27	920,047.83			25+50.00
629	600.28	899,786.93	920,064.47			25+75.00
630	600.44	899,805.49	920,081.22			26+00.00
631	600.56	899,823.95	920,098.07			26+25.00
632	600.64	899,842.33	920,115.02			26+50.00
633	600.71	899,860.61	920,132.08			26+75.00
634	600.79	899,878.79	920,149.24			27+00.00
635	600.87	899,896.87	920,166.50			27+25.00
636	600.95	899,914.86	920,183.86			27+50.00
EB FAI ROUTE 57/70						
637	601.01	899,924.72	920,193.45	2216+00.00	77.57	27+63.76
638	601.11	899,942.37	920,210.78	2216+25.00	76.94	27+88.49
639	601.21	899,959.92	920,228.20	2216+50.00	76.35	28+13.21
640	601.30	899,977.37	920,245.72	2216+75.00	75.81	28+37.94
641	601.40	899,994.72	920,263.33	2217+00.00	75.31	28+62.67
642	601.49	900,011.98	920,281.05	2217+25.00	74.87	28+87.40
643	601.57	900,029.15	920,298.86	2217+50.00	74.46	29+12.14
644	601.66	900,046.21	920,316.76	2217+75.00	74.11	29+36.87

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USER NAME bseibel
PLOT SCALE = 40.0000 ' / IN.
PLOT DATE = 3/17/2011

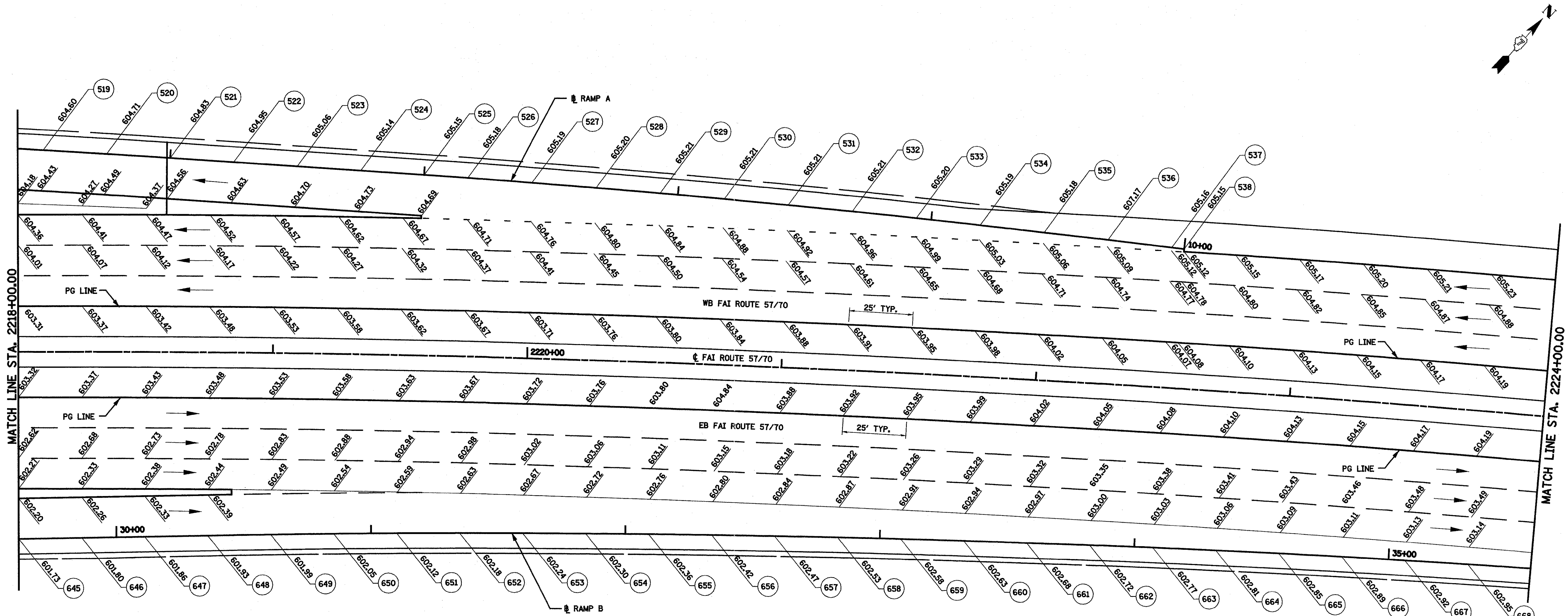
DESIGNED -	ESW	REVISED -
DRAWN -	PDB	REVISED -
CHECKED -	BRM	REVISED -
DATE -	4-23-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT ELEVATION DETAIL, RAMP A AND B, KELLER AVE.

SCALE: 1"=20' | SHEET NO. 5 OF 7 SHEETS | STA. 2212+00.00 TO STA. 2218+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	223
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



KELLER RAMP A						
POINT	ELEVATION	NORTHING	EASTING	ROADWAY STATION	℄ ROADWAY OFFSET	RAMP STATION
KELLER RAMP A						
519	604.60	900,182.80	920,238.74			14+50.00
520	604.71	900,198.51	920,258.18			14+25.00
521	604.83	900,214.11	920,277.71			14+00.00
522	604.95	900,229.69	920,297.27			13+75.00
523	605.06	900,245.27	920,316.82			13+50.00
524	605.14	900,260.84	920,336.38			13+25.00
525	605.15	900,276.42	920,355.93			13+00.00
WB FAI ROUTE 57/70						
526	605.18	900,287.10	920,369.36	2219+75.00	70.19	12+82.84
527	605.19	900,302.74	920,389.22	2220+00.00	69.00	12+57.56
528	605.20	900,318.28	920,409.15	2220+25.00	67.78	12+32.29
529	605.21	900,333.72	920,429.16	2220+50.00	66.52	12+07.01
530	605.21	900,349.06	920,449.25	2220+75.00	65.22	11+81.74
531	605.21	900,364.30	920,469.41	2221+00.00	63.89	11+56.47
532	605.21	900,379.43	920,489.65	2221+25.00	62.52	11+31.20
533	605.20	900,394.45	920,509.96	2221+50.00	61.12	11+05.94
534	605.19	900,409.37	920,530.34	2221+75.00	59.68	10+80.68
535	605.18	900,424.19	920,550.79	2222+00.00	58.21	10+55.42
536	605.17	900,438.91	920,571.32	2222+25.00	56.71	10+30.17
537	605.16	900,453.59	920,591.85	2222+50.00	55.27	10+04.92
538	605.15	900,456.46	920,595.85	2222+54.87	55.00	10+00.00

KELLER RAMP B						
POINT	ELEVATION	NORTHING	EASTING	ROADWAY STATION	℄ ROADWAY OFFSET	RAMP STATION
EB FAI ROUTE 57/70						
645	601.73	900,063.19	920,334.74	2218+00.00	73.77	29+61.60
646	601.80	900,080.18	920,352.72	2218+25.00	73.36	29+86.34
647	601.86	900,097.16	920,370.71	2218+50.00	72.85	30+11.08
648	601.93	900,114.15	920,388.70	2218+75.00	72.25	30+35.82
649	601.99	900,131.12	920,406.71	2219+00.00	71.58	30+60.57
650	602.05	900,148.03	920,424.78	2219+25.00	70.91	30+85.32
651	602.12	900,164.87	920,442.92	2219+50.00	70.26	31+10.07
652	602.18	900,181.64	920,461.14	2219+75.00	69.61	31+34.83
653	602.24	900,198.33	920,479.42	2220+00.00	68.97	31+59.58
654	602.30	900,214.95	920,497.77	2220+25.00	68.35	31+84.34
655	602.36	900,231.50	920,516.19	2220+50.00	67.74	32+09.10
656	602.42	900,247.97	920,534.68	2220+75.00	67.14	32+33.86
657	602.47	900,264.36	920,553.24	2221+00.00	66.54	32+58.63
658	602.53	900,280.69	920,571.86	2221+25.00	65.96	32+83.39
659	602.58	900,296.93	920,590.56	2221+50.00	65.40	33+08.16
660	602.63	900,313.10	920,609.32	2221+75.00	64.84	33+32.93
661	602.68	900,329.20	920,628.15	2222+00.00	64.29	33+57.70
662	602.72	900,345.22	920,647.05	2222+25.00	63.76	33+82.47
663	602.77	900,361.16	920,666.01	2222+50.00	63.23	34+07.25
664	602.81	900,377.03	920,685.04	2222+75.00	62.72	34+32.03
665	602.85	900,392.82	920,704.13	2223+00.00	62.22	34+56.80
666	602.89	900,408.54	920,723.29	2223+25.00	61.73	34+81.58
667	602.92	900,424.17	920,742.52	2223+50.00	61.25	35+06.36
668	602.95	900,439.73	920,761.81	2223+75.00	60.78	35+31.15

0 20' 40'

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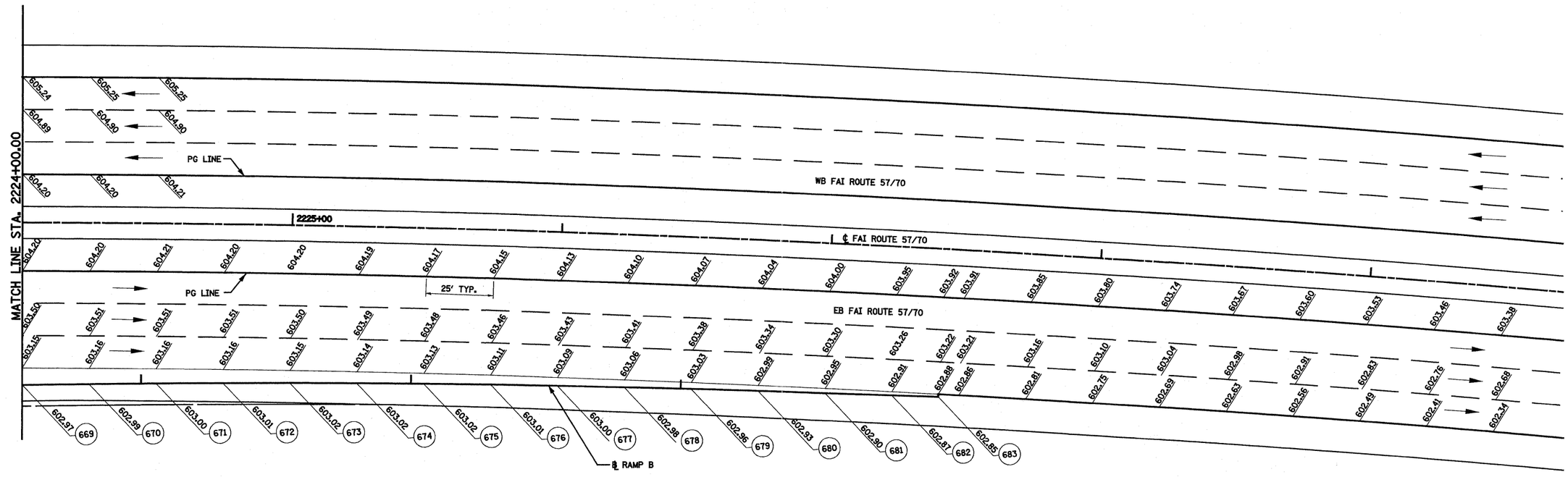
		DRAWN PDB	REVISED -
	PLOT SCALE 40.0000 ' / IN.	CHECKED BRM	REVISED -
	PLOT DATE = 3/17/2011	DATE 4-23-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT ELEVATION DETAIL, RAMP A AND B, KELLER AVE.

SCALE: 1"=20' | SHEET NO. 6 OF 7 SHEETS | STA. 2218+00.00 TO STA. 2224+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	224
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



KELLER RAMP B						
POINT	ELEVATION	NORTHING	EASTING	ROADWAY STATION	℄ ROADWAY OFFSET	RAMP STATION
EB FAI ROUTE 57/70						
669	602.97	900,455.21	920,781.16	2224+00.00	60.32	35+55.93
670	602.99	900,470.61	920,800.58	2224+25.00	59.88	35+80.72
671	603.00	900,485.93	920,820.07	2224+50.00	59.44	36+05.50
672	603.01	900,501.18	920,839.61	2224+75.00	59.02	36+30.29
673	603.02	900,516.34	920,859.22	2225+00.00	58.61	36+55.08
674	603.02	900,531.43	920,878.90	2225+25.00	58.21	36+79.87
675	603.02	900,546.43	920,898.63	2225+50.00	57.82	37+04.66
676	603.01	900,561.36	920,918.43	2225+75.00	57.44	37+29.46
677	603.00	900,576.20	920,938.29	2226+00.00	57.07	37+54.25
678	602.98	900,590.97	920,958.21	2226+25.00	56.71	37+79.05
679	602.96	900,605.65	920,978.19	2226+50.00	56.37	38+03.84
680	602.93	900,620.25	920,998.23	2226+75.00	56.04	38+28.64
681	602.90	900,634.77	921,018.34	2227+00.00	55.72	38+53.44
682	602.87	900,649.28	921,038.46	2227+25.00	55.33	38+78.24
683	602.85	900,659.35	921,052.43	2227+42.37	55.00	38+95.47

0 20' 40'

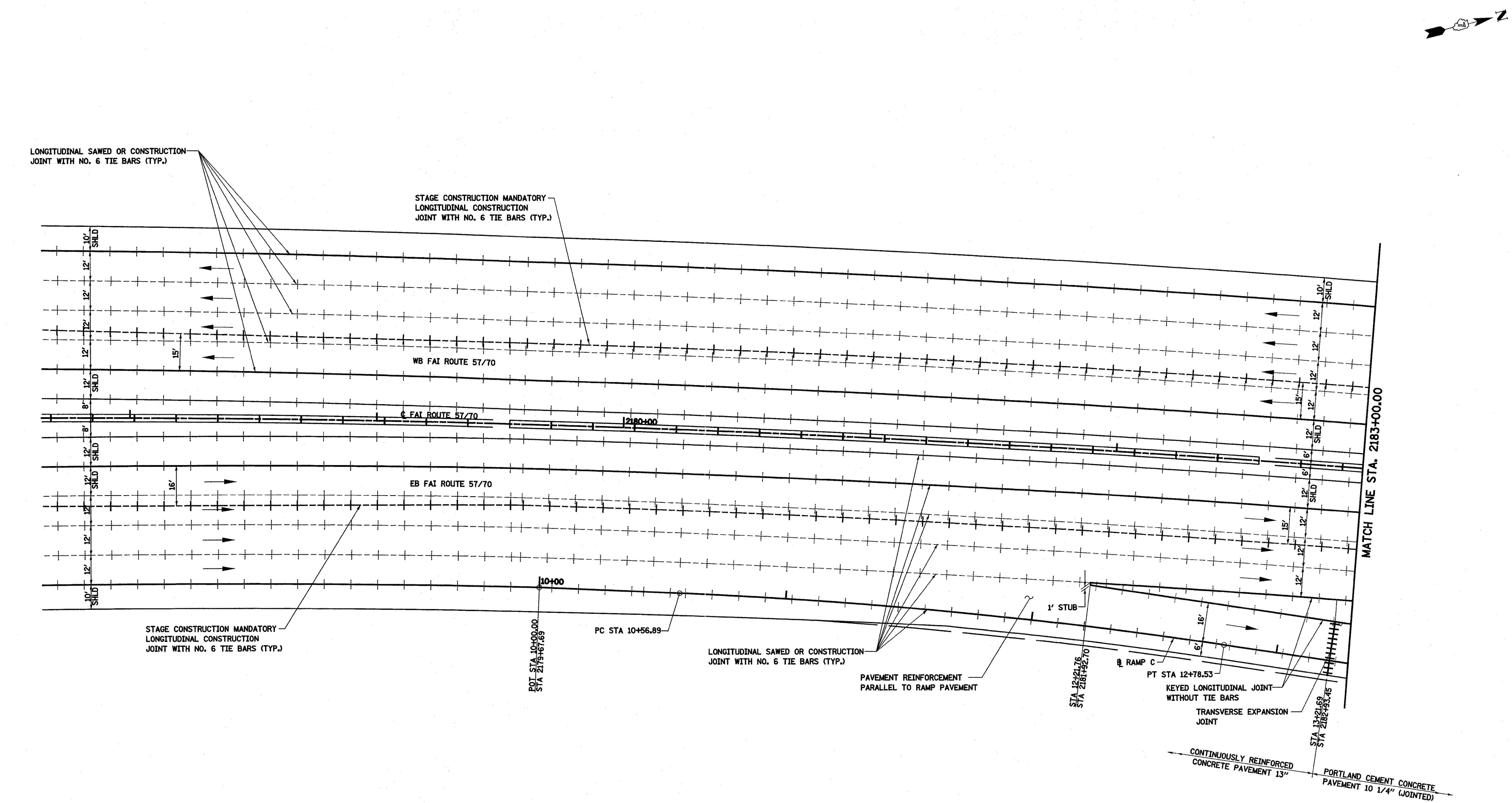
FILE NAME = S:\Projects\483-88872.57-7R\dgn\ML_Keller\pav_elev_details.dgn	USER NAME = bsoibel	DESIGNED - ESW	REVISED -	
		DRAWN - PDB	REVISED -	
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -	
	PLOT DATE = 3/17/2011	DATE - 4-23-08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT ELEVATION DETAIL, RAMP A AND B, KELLER AVE.

SCALE: 1"=20' | SHEET NO. 7 OF 7 SHEETS | STA. 2224+00.00 TO STA. 2228+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	225
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

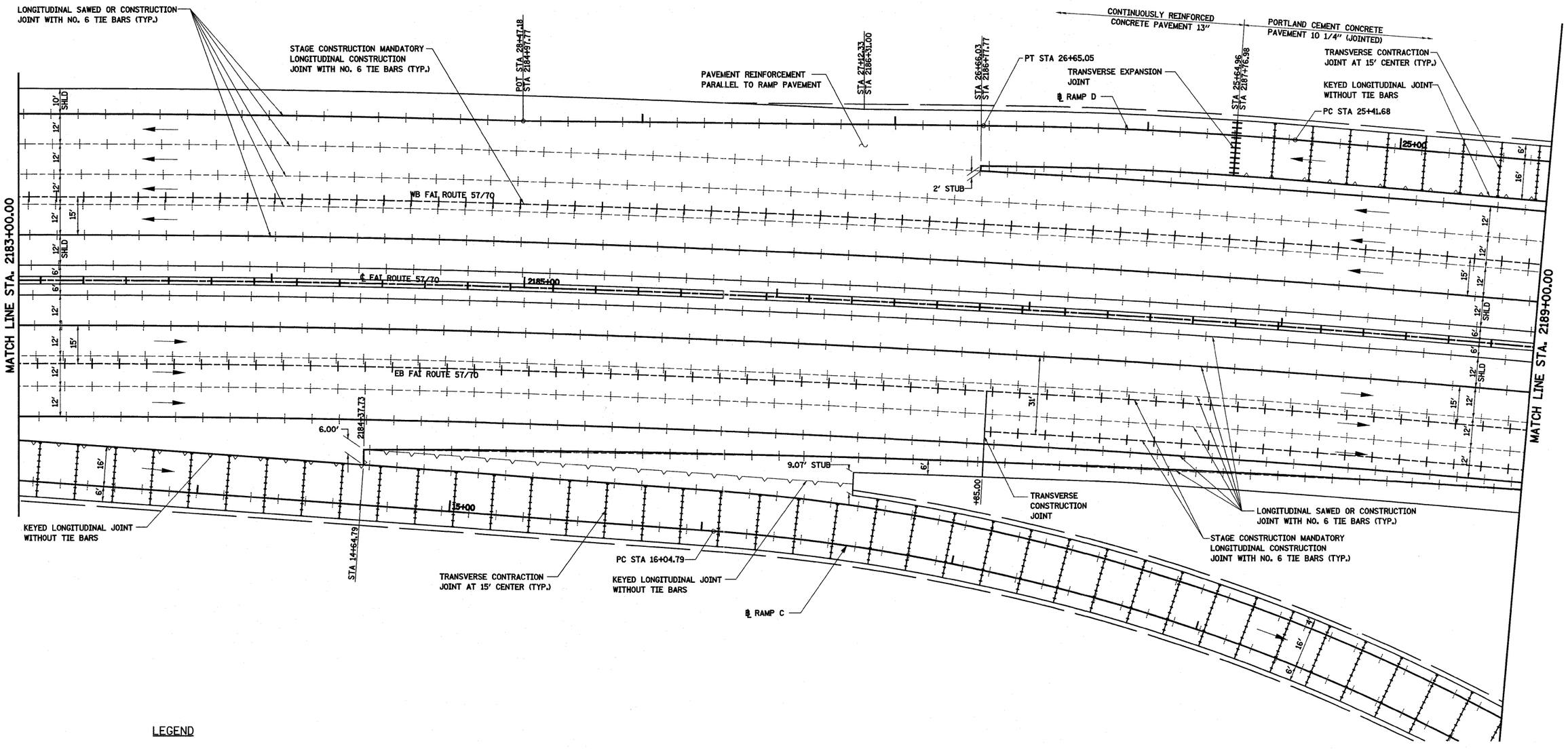


LEGEND

- LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
- LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
- TRANSVERSE CONTRACTION JOINT AT 15' CENTERS (TYP.)
- TRANSVERSE EXPANSION JOINT
- LONGITUDINAL KEYED JOINT (WITHOUT TIE BARS)

NOTE:
TRANSVERSE CONTRACTION JOINT SPACING AT 15' UNLESS OTHERWISE NOTED.

FILE NAME = S:\Projects\483-80072_57-70\dgn\rt_Keller\part_detail.dgn	USER NAME = bseibel	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOINTING DETAIL, RAMP D AND C, KELLER AVE.	F.A.I RTE. 57/70	SECTION (25-3,4)R	COUNTY EFFINGHAM	TOTAL SHEETS 1098 / SHEET NO. 226
	PLOT SCALE = 40.0000 ' / IN.	DRAWN - PDB	REVISED -		SCALE: 1"=20' / SHEET NO. 1 OF 7 SHEETS / STA. 2178+00.00 TO STA. 2183+00.00			CONTRACT NO. 74299	
	PLOT DATE = 3/17/2011	CHECKED - BRM	REVISED -			FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
		DATE - 1-23-09	REVISED -						



LEGEND

- LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
- LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
- TRANSVERSE CONTRACTION JOINT AT 15' CENTERS (TYP.)
- TRANSVERSE EXPANSION JOINT
- LONGITUDINAL KEYED JOINT (WITHOUT TIE BARS)

NOTE:
TRANSVERSE CONTRACTION JOINT SPACING AT 15' UNLESS OTHERWISE NOTED.

0 20' 40'

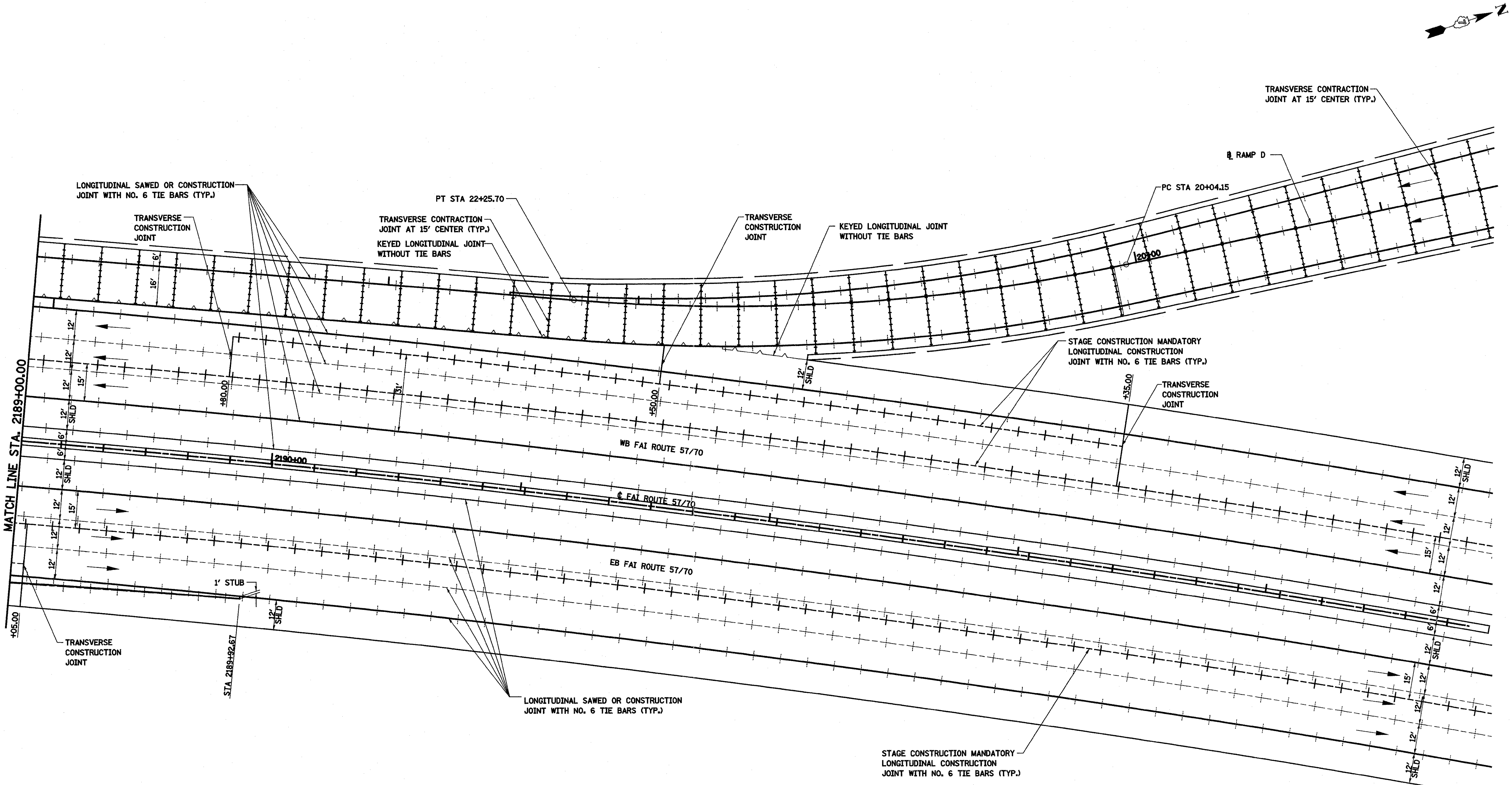
FILE NAME = S:\Projects\485-68872-57-70\dgn\01_Keller\joint_details.dgn	USER NAME = bseibel	DESIGNED - ESW	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/17/2011	DATE - 1-23-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINTING DETAIL, RAMP D AND C, KELLER AVE.

SCALE: 1"=20' | SHEET NO. 2 OF 7 SHEETS | STA. 2183+00.00 TO STA. 2189+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	227
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
- LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
- TRANSVERSE CONTRACTION JOINT AT 15' CENTERS (TYP.)
- TRANSVERSE EXPANSION JOINT
- LONGITUDINAL KEYED JOINT (WITHOUT TIE BARS)

NOTE:
TRANSVERSE CONTRACTION JOINT SPACING AT 15' UNLESS OTHERWISE NOTED.

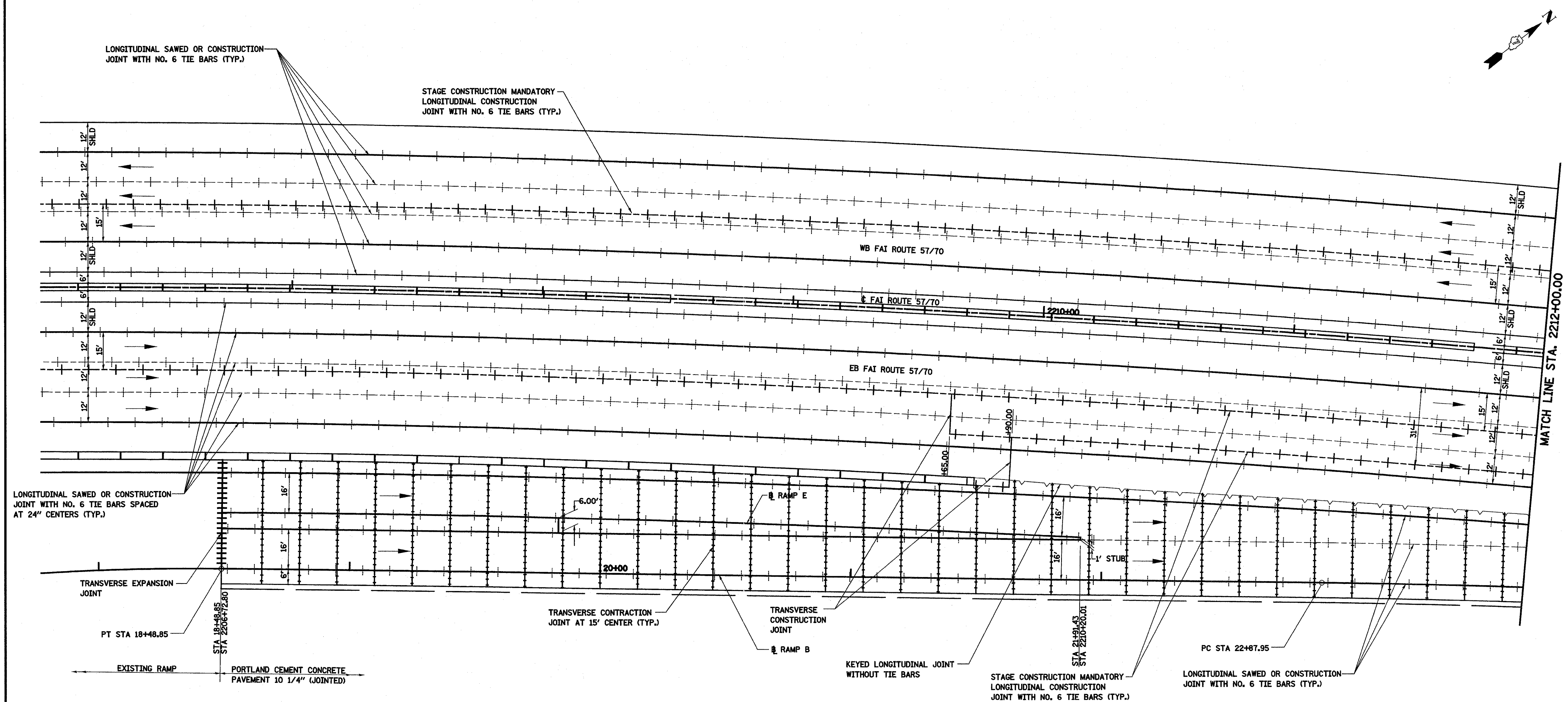
0 20' 40'

FILE NAME = S:\Projects\483-00072_57-70\dgn\KL_Keller\joint_details.dgn	USER NAME = bseibel	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - PDB	REVISED -	
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -	
	PLOT DATE = 3/17/2011	DATE - 1-23-09	REVISED -	

JOINTING DETAIL, RAMP D AND C, KELLER AVE.

SCALE: 1"=20' | SHEET NO. 3 OF 7 SHEETS | STA. 2189+00.00 TO STA. 2194+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	228
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



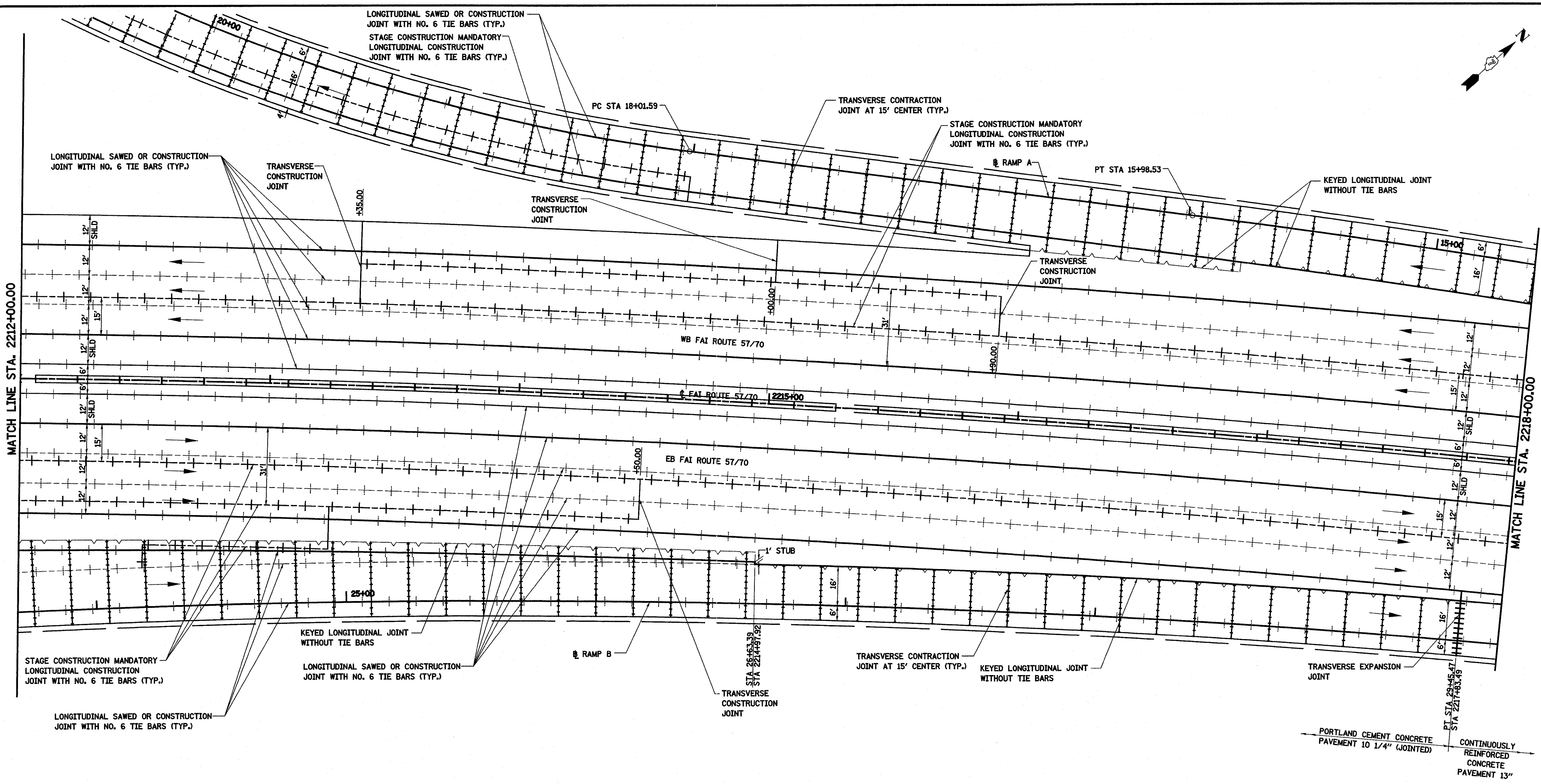
LEGEND

- LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
- LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
- TRANSVERSE CONTRACTION JOINT AT 15' CENTERS (TYP.)
- TRANSVERSE EXPANSION JOINT
- LONGITUDINAL KEYED JOINT (WITHOUT TIE BARS)

NOTE:
TRANSVERSE CONTRACTION JOINT SPACING AT 15' UNLESS OTHERWISE NOTED.

0 20' 40'

FILE NAME = S:\Projects\483-88872_57-70\dgn\M_Keller\joint_details.dgn	USER NAME = bseibel	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOINTING DETAIL, RAMP A AND B, KELLER AVE.	F.A.I RTE. 57/70	SECTION (25-3,4)R	COUNTY EFFINGHAM	TOTAL SHEETS 1098 / SHEET NO. 229
		DRAWN - PDB	REVISED -						
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -		SCALE: 1"=20' / SHEET NO. 4 OF 7 SHEETS / STA. 2206+00.00 TO STA. 22120.00			CONTRACT NO. 74299	
	PLOT DATE = 3/17/2011	DATE - 1-23-09	REVISED -			FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
STAGE CONSTRUCTION MANDATORY LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
PC STA 18+01.59
TRANSVERSE CONTRACTION JOINT AT 15' CENTER (TYP.)
STAGE CONSTRUCTION MANDATORY LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
℄ RAMP A
PT STA 15+98.53
KEYED LONGITUDINAL JOINT WITHOUT TIE BARS
LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
TRANSVERSE CONSTRUCTION JOINT
TRANSVERSE CONSTRUCTION JOINT
TRANSVERSE CONSTRUCTION JOINT
20+00
15+00
+35.00
+00.00
+90.00
+50.00
WB FAI ROUTE 57/70
℄ FAI ROUTE 57/70
2215+00
EB FAI ROUTE 57/70
MATCH LINE STA. 2212+00.00
MATCH LINE STA. 2218+00.00
1' STUB
25+00
KEYED LONGITUDINAL JOINT WITHOUT TIE BARS
STAGE CONSTRUCTION MANDATORY LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
℄ RAMP B
STA 26+63.39
STA 2214+97.92
TRANSVERSE CONSTRUCTION JOINT
TRANSVERSE CONTRACTION JOINT AT 15' CENTER (TYP.)
KEYED LONGITUDINAL JOINT WITHOUT TIE BARS
TRANSVERSE EXPANSION JOINT
PT STA 29+45.47
STA 2217+83.49
LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
PORTLAND CEMENT CONCRETE PAVEMENT 10 1/4" (JOINTED)
CONTINUOUSLY REINFORCED CONCRETE PAVEMENT 13"

LEGEND

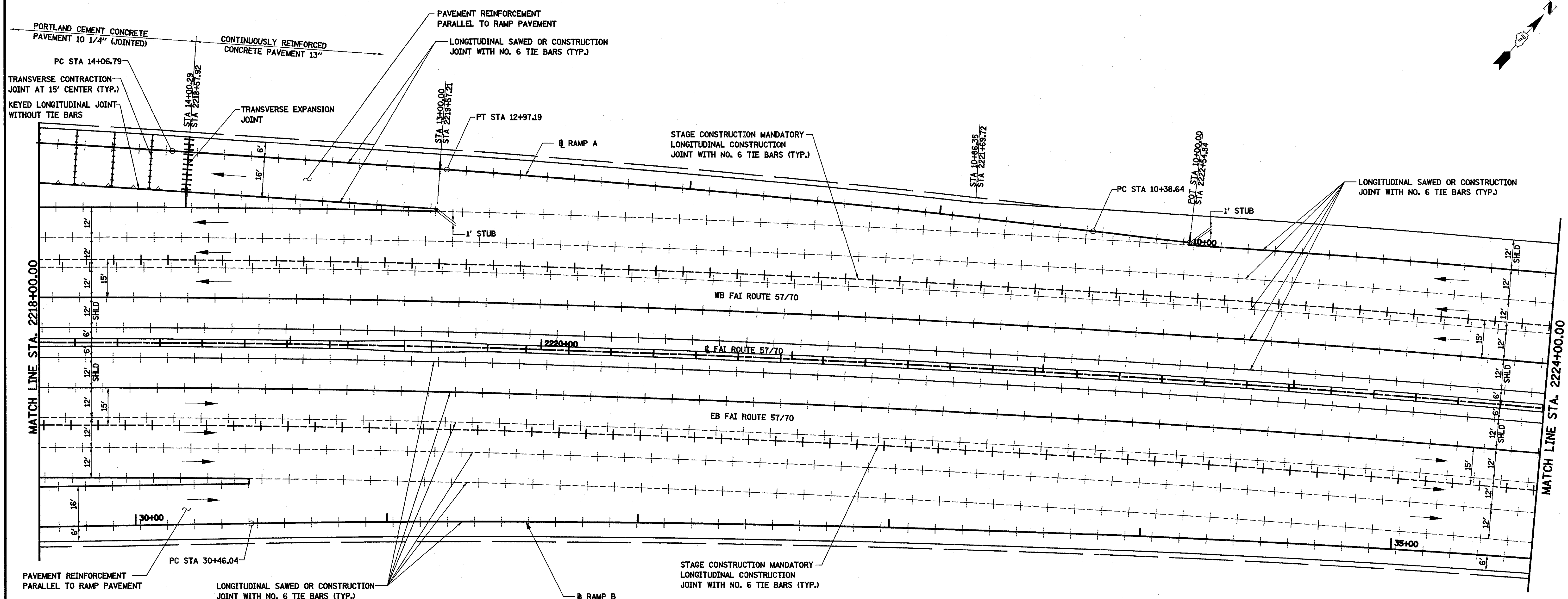
- LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
- LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
- TRANSVERSE CONTRACTION JOINT AT 15' CENTERS (TYP.)
- TRANSVERSE EXPANSION JOINT
- LONGITUDINAL KEYED JOINT (WITHOUT TIE BARS)

NOTE:
TRANSVERSE CONTRACTION JOINT SPACING AT 15' UNLESS OTHERWISE NOTED.

0 20' 40'

FILE NAME = S:\Projects\483-00072_57-70\dgn\Mi_Keller\pavt_detail.dgn	USER NAME bseibel	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOINTING DETAIL, RAMP A AND B, KELLER AVE.
		DRAWN - PDB	REVISED -		
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -		
	PLOT DATE = 3/17/2011	DATE - 1-23-09	REVISED -		SCALE: 1"=20' SHEET NO. 5 OF 7 SHEETS STA. 2212+00.00 TO STA. 2218+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	230
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PORTLAND CEMENT CONCRETE PAVEMENT 10 1/4" (JOINTED)
CONTINUOUSLY REINFORCED CONCRETE PAVEMENT 13"
PC STA 14+06.79
TRANSVERSE CONTRACTION JOINT AT 15' CENTER (TYP.)
KEYED LONGITUDINAL JOINT WITHOUT TIE BARS
STA 14+00.29
STA 2218+57.92
TRANSVERSE EXPANSION JOINT
PAVEMENT REINFORCEMENT PARALLEL TO RAMP PAVEMENT
LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
STA 13+00.00
STA 2219+57.21
PT STA 12+97.19
℄ RAMP A
1' STUB
STAGE CONSTRUCTION MANDATORY LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
STA 10+86.35
STA 2221+69.72
PC STA 10+38.64
POT STA 10+00.00
STA 2222+54.84
1' STUB
10+00
LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
MATCH LINE STA. 2218+00.00
MATCH LINE STA. 2224+00.00
WB FAI ROUTE 57/70
2220+00
℄ FAI ROUTE 57/70
EB FAI ROUTE 57/70
SHLD
30+00
35+00
PC STA 30+46.04
PAVEMENT REINFORCEMENT PARALLEL TO RAMP PAVEMENT
LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
℄ RAMP B
STAGE CONSTRUCTION MANDATORY LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
N

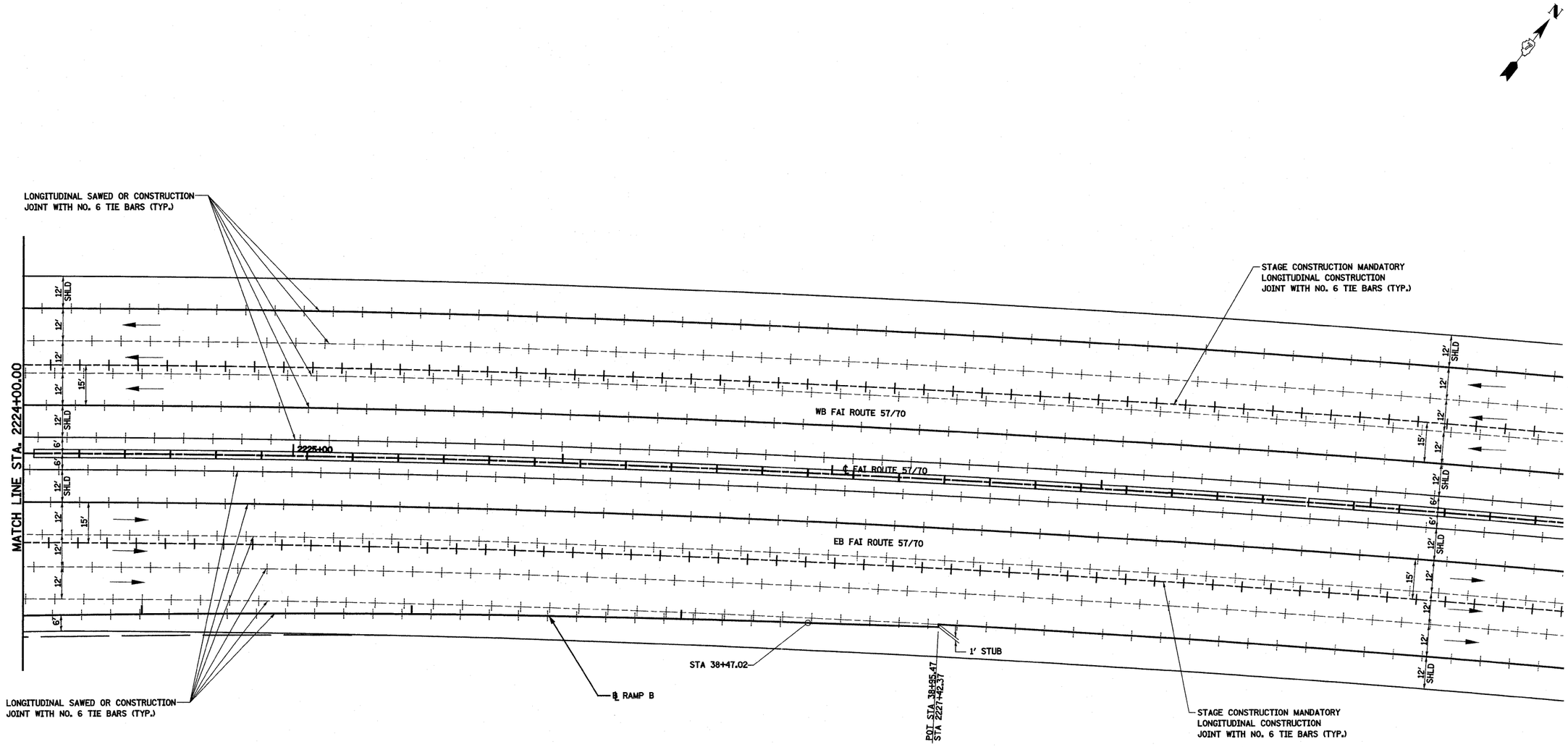
LEGEND

- LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
- LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
- TRANSVERSE CONTRACTION JOINT AT 15' CENTERS (TYP.)
- TRANSVERSE EXPANSION JOINT
- LONGITUDINAL KEYED JOINT (WITHOUT TIE BARS)

NOTE:
TRANSVERSE CONTRACTION JOINT SPACING AT 15' UNLESS OTHERWISE NOTED.

0 20' 40'

FILE NAME = S:\Projects\...\Keller\joint_details.dgn	USER NAME = bseibel	DESIGNED	ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOINTING DETAIL, RAMP A AND B, KELLER AVE.	F.A.I RTE. 57/70	SECTION (25-3,4)R
		DRAWN	PDB	REVISED -			COUNTY EFFINGHAM	TOTAL SHEETS 1098 / SHEET NO. 231
	PLOT SCALE 40.0000 ' / IN.	CHECKED	BRM	REVISED -		SCALE: 1"=20' / SHEET NO. 6 OF 7 SHEETS / STA. 2218+00.00 TO STA. 2224+00.00	CONTRACT NO. 74299	
	PLOT DATE = 3/17/2011	DATE	1-23-09	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



LEGEND

- LONGITUDINAL SAWED OR CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
- LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS (TYP.)
- TRANSVERSE CONTRACTION JOINT AT 15' CENTERS (TYP.)
- TRANSVERSE EXPANSION JOINT
- LONGITUDINAL KEYED JOINT (WITHOUT TIE BARS)

0 20' 40'

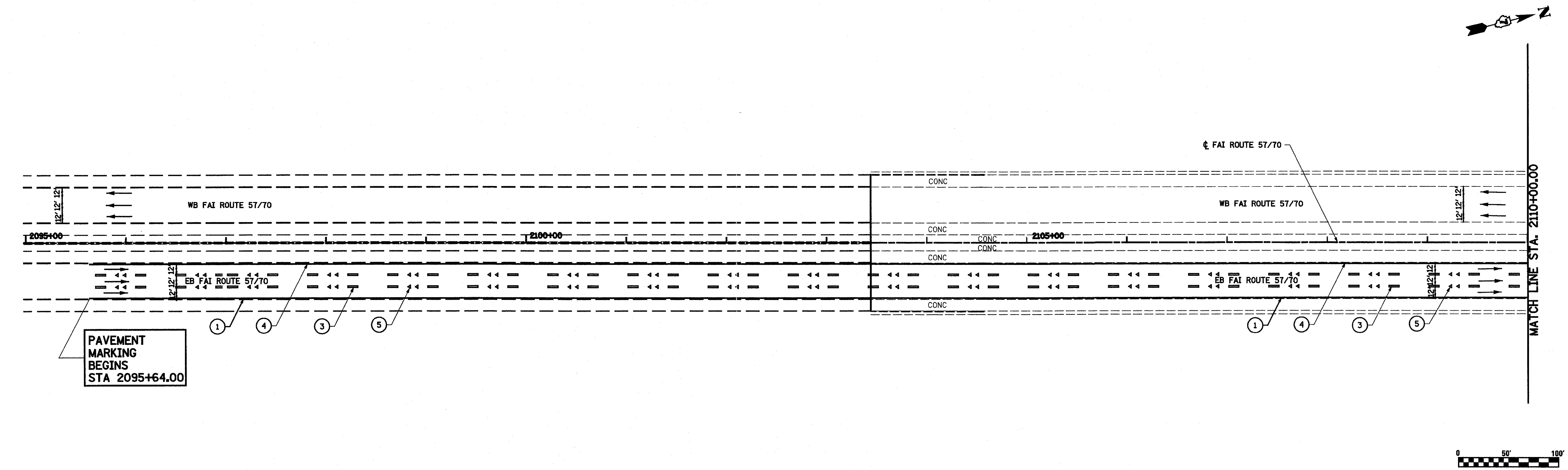
FILE NAME = S:\Projects\483-98872.57-70\dgn\ML_Keller\joint_details.dgn	USER NAME = bseibel	DESIGNED - ESW	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/17/2011	DATE - 1-23-09	REVISED -

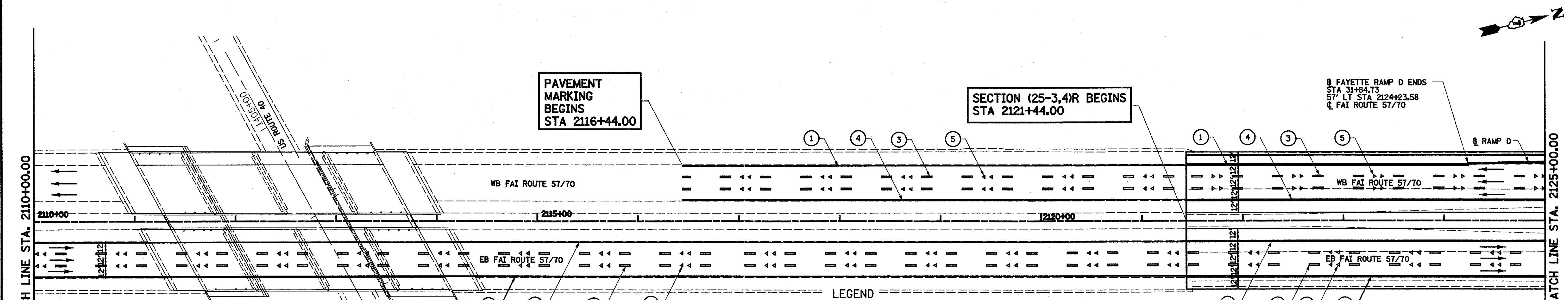
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINTING DETAIL, RAMP A AND B, KELLER AVE.

SCALE: 1"=20' | SHEET NO. 7 OF 7 SHEETS | STA. 2224+00.00 TO STA. 2228+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	232
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





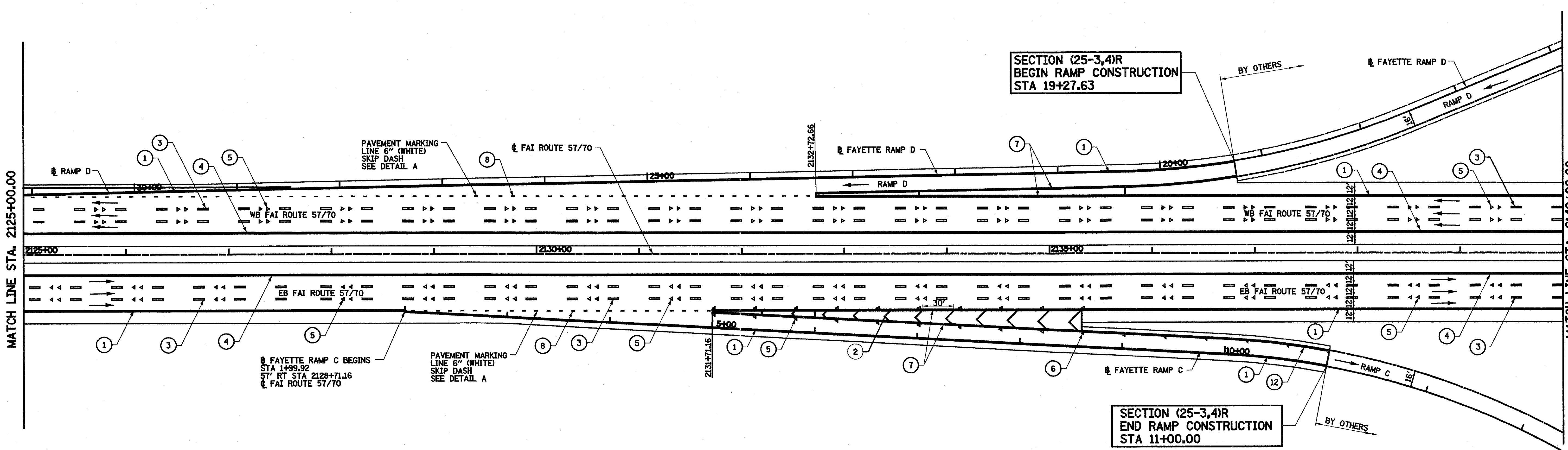
LEGEND

1. URETHANE PAVEMENT MARKING LINE - 4" SOLID WHITE
2. URETHANE PAVEMENT MARKING LINE - 12" SOLID WHITE
3. URETHANE PAVEMENT MARKING LINE - 6" SKIP DASH WHITE
4. URETHANE PAVEMENT MARKING LINE - 6" SOLID YELLOW
5. RAISED REFLECTIVE PAVEMENT MARKERS - CRYSTAL, ONE-WAY
6. RAISED REFLECTIVE PAVEMENT MARKERS - AMBER, ONE-WAY
7. URETHANE PAVEMENT MARKING LINE - 8" SOLID WHITE
8. URETHANE PAVEMENT MARKING LINE - 6" SKIP DASH WHITE (12' SEE DETAIL A)
9. URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
10. URETHANE PAVEMENT MARKING LINE - 6" SOLID WHITE
11. URETHANE PAVEMENT MARKING LINE - 12" SOLID YELLOW
12. URETHANE PAVEMENT MARKING LINE - 4" SOLID YELLOW

0 50' 100'

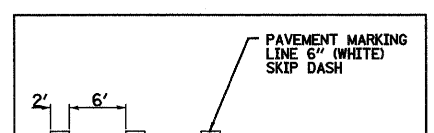
FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING, FAI ROUTE 57/70
		DRAWN - PDB	REVISED -		
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -		
	PLOT DATE = 3/18/2011	DATE - 4-08-08	REVISED -		SCALE: 1"=50' / SHEET NO. 1 OF 10 SHEETS / STA. 2095+00.00 TO STA. 2125+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3.4)R	EFFINGHAM	1098	233
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

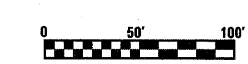


LEGEND

1. URETHANE PAVEMENT MARKING LINE - 4" SOLID WHITE
2. URETHANE PAVEMENT MARKING LINE - 12" SOLID WHITE
3. URETHANE PAVEMENT MARKING LINE - 6" SKIP DASH WHITE
4. URETHANE PAVEMENT MARKING LINE - 6" SOLID YELLOW
5. RAISED REFLECTIVE PAVEMENT MARKERS - CRYSTAL, ONE-WAY
6. RAISED REFLECTIVE PAVEMENT MARKERS - AMBER, ONE-WAY
7. URETHANE PAVEMENT MARKING LINE - 8" SOLID WHITE
8. URETHANE PAVEMENT MARKING LINE - 6" SKIP DASH WHITE (12' SEE DETAIL A)
9. URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
10. URETHANE PAVEMENT MARKING LINE - 6" SOLID WHITE
11. URETHANE PAVEMENT MARKING LINE - 12" SOLID YELLOW
12. URETHANE PAVEMENT MARKING LINE - 4" SOLID YELLOW

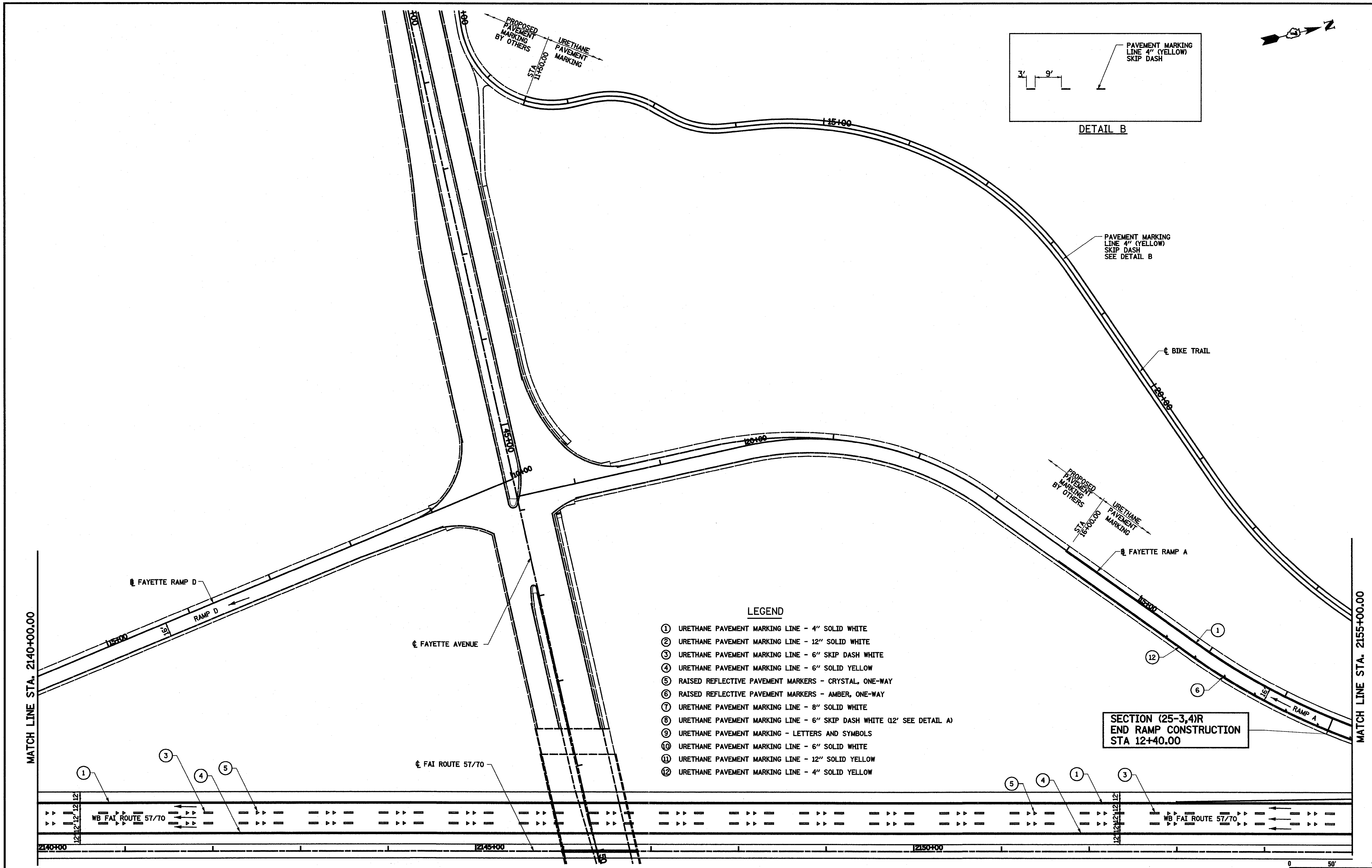


DETAIL A



NOTE: STATIONING OF RAMP D IS REVERSED

FILE NAME = S:\Projects\483-00072_57-70\dgn\M_Keller\pmk_5770.dgn	USER NAME = bseibel	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING, FAI ROUTE 57/70	F.A.I. RTE. 57/70	SECTION (25-3,4)R	COUNTY EFFINGHAM	TOTAL SHEETS 1098 / SHEET NO. 234
		DRAWN - PDB	REVISED -					CONTRACT NO. 74299	
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -		SCALE: 1"=50' / SHEET NO. 2 OF 10 SHEETS / STA. 2125+00.00 TO STA. 2155+00.00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
	PLOT DATE = 3/17/2011	DATE - 4-08-08	REVISED -						



LEGEND

1. URETHANE PAVEMENT MARKING LINE - 4" SOLID WHITE
2. URETHANE PAVEMENT MARKING LINE - 12" SOLID WHITE
3. URETHANE PAVEMENT MARKING LINE - 6" SKIP DASH WHITE
4. URETHANE PAVEMENT MARKING LINE - 6" SOLID YELLOW
5. RAISED REFLECTIVE PAVEMENT MARKERS - CRYSTAL, ONE-WAY
6. RAISED REFLECTIVE PAVEMENT MARKERS - AMBER, ONE-WAY
7. URETHANE PAVEMENT MARKING LINE - 8" SOLID WHITE
8. URETHANE PAVEMENT MARKING LINE - 6" SKIP DASH WHITE (12' SEE DETAIL A)
9. URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
10. URETHANE PAVEMENT MARKING LINE - 6" SOLID WHITE
11. URETHANE PAVEMENT MARKING LINE - 12" SOLID YELLOW
12. URETHANE PAVEMENT MARKING LINE - 4" SOLID YELLOW

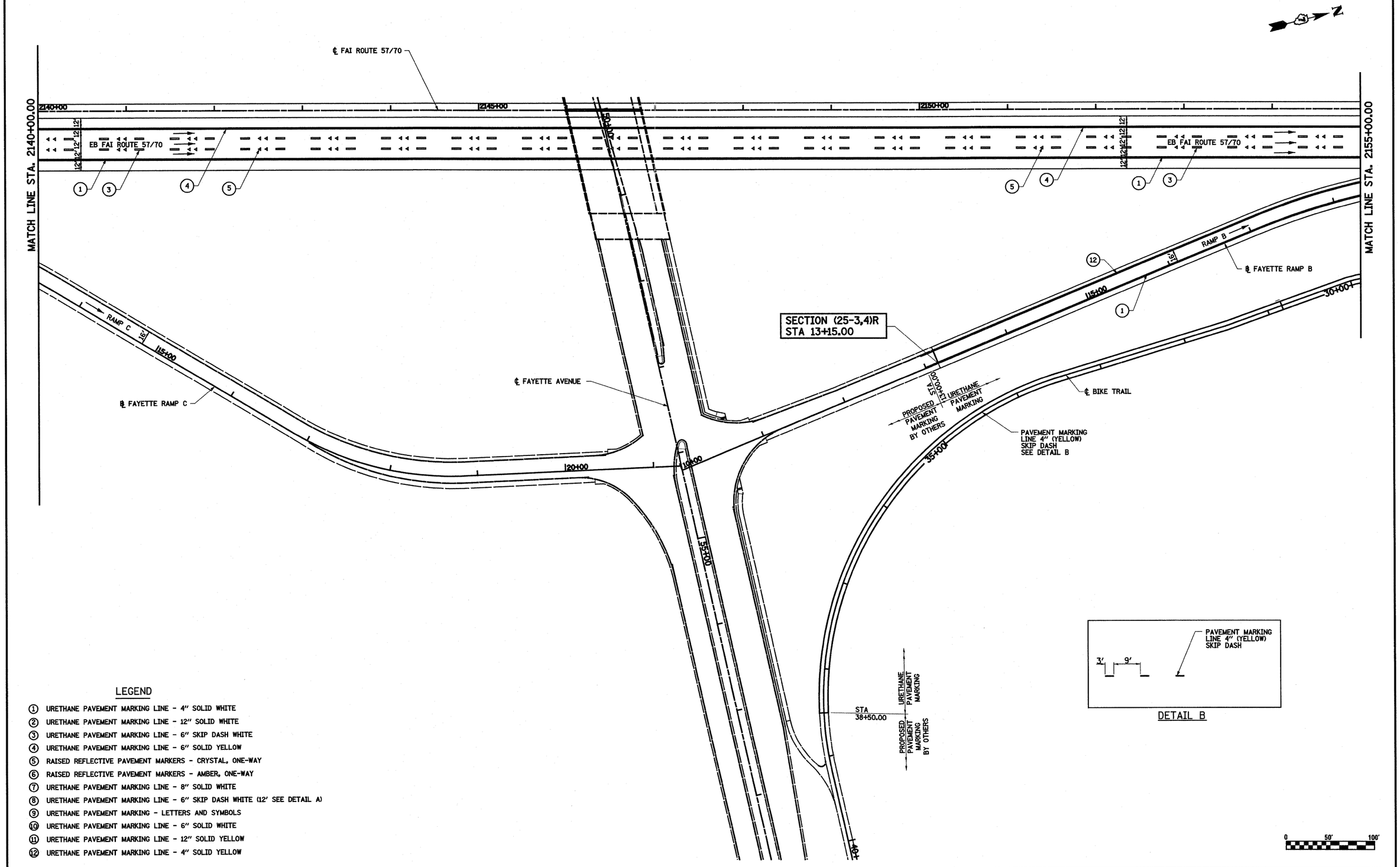
FILE NAME =	USER NAME = bseibel	DESIGNED - JWS	REVISED -
S:\Projects\485-80072_57-70\dgn\HL_Roller\pmk_57f.dgn		DRAWN - PDB	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/17/2011	DATE - 5-02-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING, FAI ROUTE 57/70

SCALE: 1"=50' | SHEET NO. 3 OF 10 SHEETS | STA. 2125+00.00 TO STA. 2155+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	235
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

1. URETHANE PAVEMENT MARKING LINE - 4" SOLID WHITE
2. URETHANE PAVEMENT MARKING LINE - 12" SOLID WHITE
3. URETHANE PAVEMENT MARKING LINE - 6" SKIP DASH WHITE
4. URETHANE PAVEMENT MARKING LINE - 6" SOLID YELLOW
5. RAISED REFLECTIVE PAVEMENT MARKERS - CRYSTAL, ONE-WAY
6. RAISED REFLECTIVE PAVEMENT MARKERS - AMBER, ONE-WAY
7. URETHANE PAVEMENT MARKING LINE - 8" SOLID WHITE
8. URETHANE PAVEMENT MARKING LINE - 6" SKIP DASH WHITE (12' SEE DETAIL A)
9. URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
10. URETHANE PAVEMENT MARKING LINE - 6" SOLID WHITE
11. URETHANE PAVEMENT MARKING LINE - 12" SOLID YELLOW
12. URETHANE PAVEMENT MARKING LINE - 4" SOLID YELLOW

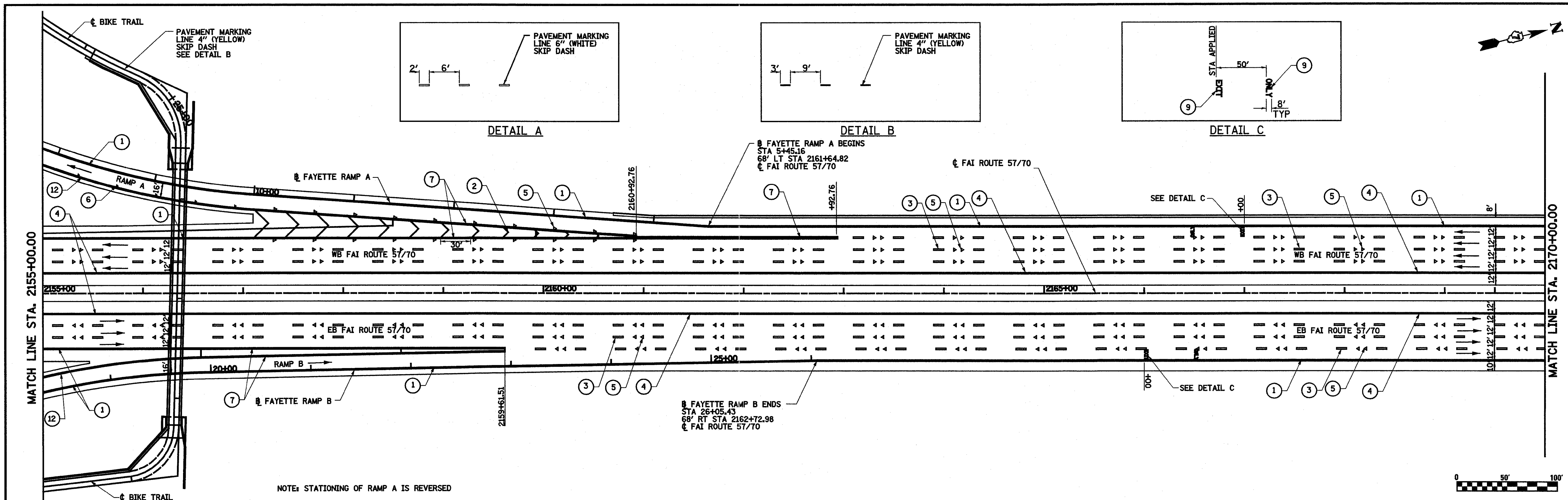
FILE NAME = S:\Projects\M&S-08072.57-70\dgn\ML_Keller\pmk_5770.dgn	USER NAME = bseibel	DESIGNED - JWS	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/17/2011	DATE - 5-02-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING, FAI ROUTE 57/70

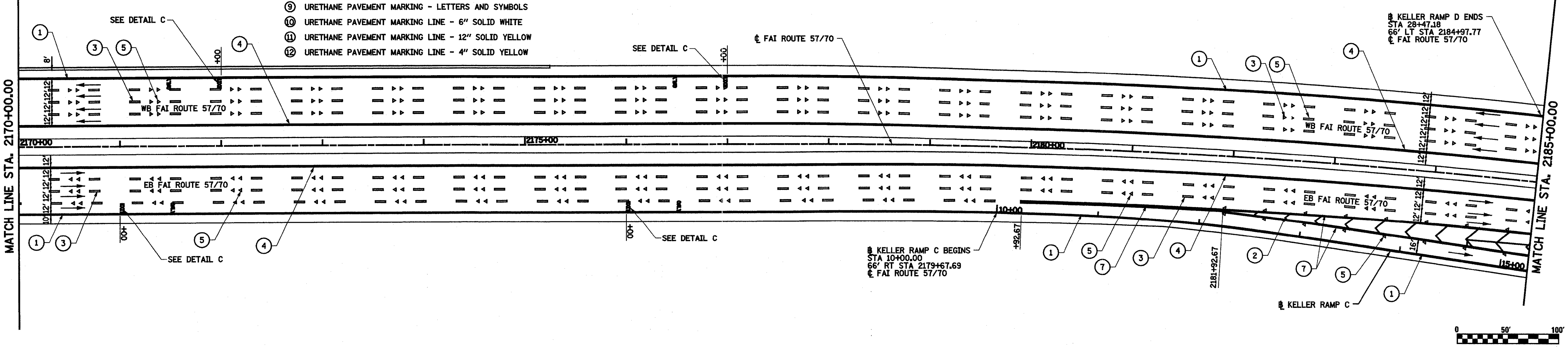
SCALE: 1"=50' | SHEET NO. 4 OF 10 SHEETS | STA. 2125+00.00 TO STA. 2155+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	236
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



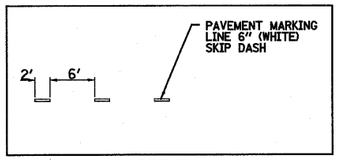
LEGEND

1. URETHANE PAVEMENT MARKING LINE - 4" SOLID WHITE
2. URETHANE PAVEMENT MARKING LINE - 12" SOLID WHITE
3. URETHANE PAVEMENT MARKING LINE - 6" SKIP DASH WHITE
4. URETHANE PAVEMENT MARKING LINE - 6" SOLID YELLOW
5. RAISED REFLECTIVE PAVEMENT MARKERS - CRYSTAL, ONE-WAY
6. RAISED REFLECTIVE PAVEMENT MARKERS - AMBER, ONE-WAY
7. URETHANE PAVEMENT MARKING LINE - 8" SOLID WHITE
8. URETHANE PAVEMENT MARKING LINE - 6" SKIP DASH WHITE (12' SEE DETAIL A)
9. URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
10. URETHANE PAVEMENT MARKING LINE - 6" SOLID WHITE
11. URETHANE PAVEMENT MARKING LINE - 12" SOLID YELLOW
12. URETHANE PAVEMENT MARKING LINE - 4" SOLID YELLOW



FILE NAME = S:\Projects\483-98072_57-70\dgn\ML_Keller\pmk_5770.dgn	USER NAME = John	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING, FAI ROUTE 57/70
		DRAWN - PDB	REVISED -		
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -		
	PLOT DATE = 3/28/2011	DATE - 4-08-08	REVISED -		SCALE: 1"=50' · SHEET NO. 5 OF 10 SHEETS · STA. 2155+00.00 TO STA. 2185+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	237
		CONTRACT NO. 74299		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		



DETAIL A

LEGEND

1. URETHANE PAVEMENT MARKING LINE - 4" SOLID WHITE
2. URETHANE PAVEMENT MARKING LINE - 12" SOLID WHITE
3. URETHANE PAVEMENT MARKING LINE - 6" SKIP DASH WHITE
4. URETHANE PAVEMENT MARKING LINE - 6" SOLID YELLOW
5. RAISED REFLECTIVE PAVEMENT MARKERS - CRYSTAL, ONE-WAY
6. RAISED REFLECTIVE PAVEMENT MARKERS - AMBER, ONE-WAY
7. URETHANE PAVEMENT MARKING LINE - 8" SOLID WHITE
8. URETHANE PAVEMENT MARKING LINE - 6" SKIP DASH WHITE (12' SEE DETAIL A)
9. URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
10. URETHANE PAVEMENT MARKING LINE - 6" SOLID WHITE
11. URETHANE PAVEMENT MARKING LINE - 12" SOLID YELLOW
12. URETHANE PAVEMENT MARKING LINE - 4" SOLID YELLOW

NOTE: STATIONING OF RAMP D IS REVERSED

0 50' 100'

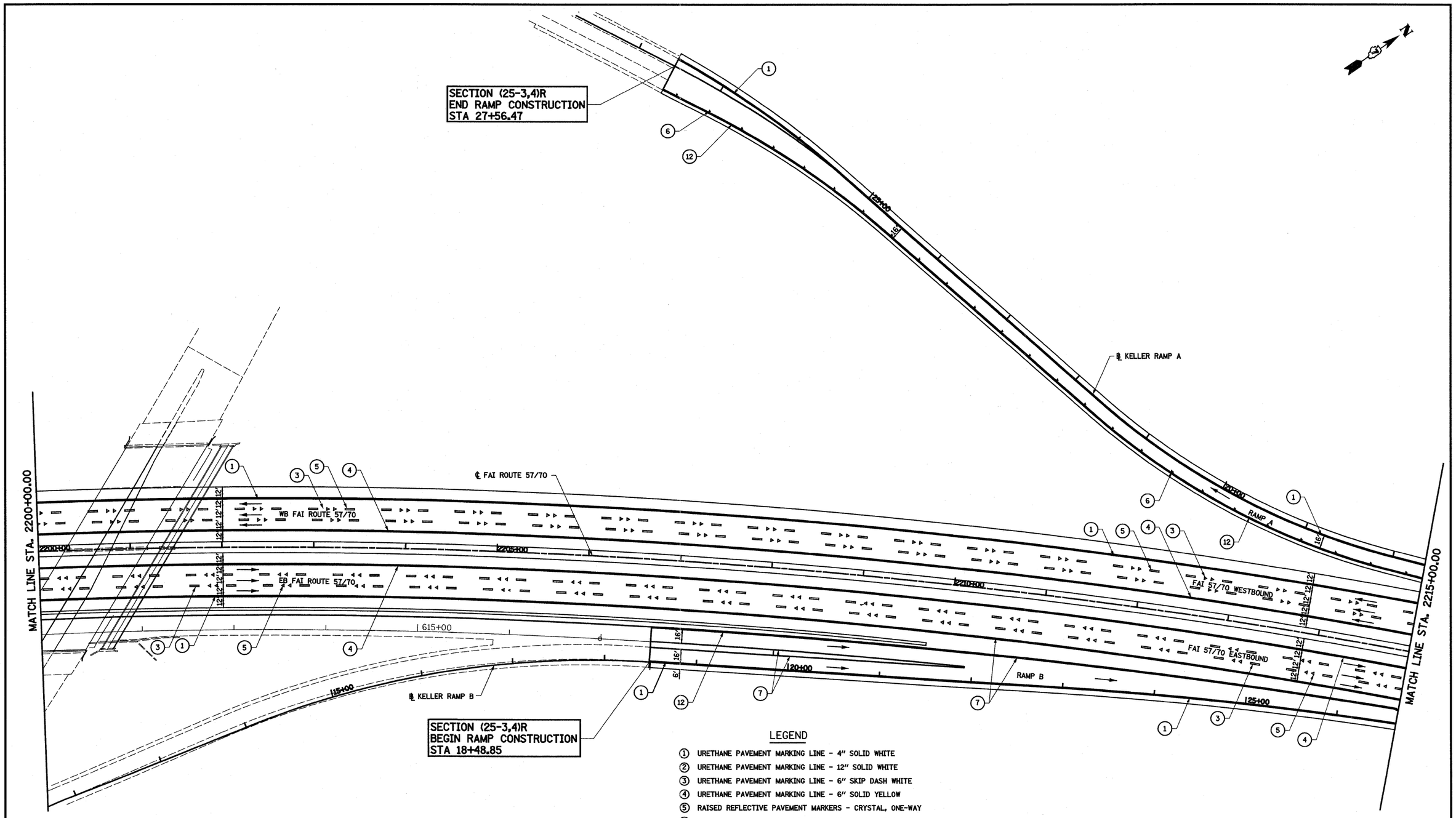
FILE NAME = S:\Projects\483-00072.57-70\dgn\ML_Keller\pmk_5770.dgn	USER NAME = bseibel	DESIGNED - JWS	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/17/2011	DATE - 4-08-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING, FAI ROUTE 57/70

SCALE: 1"=50' | SHEET NO. 6 OF 10 SHEETS | STA. 2185+00.00 TO STA. 2220+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	238
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

1. URETHANE PAVEMENT MARKING LINE - 4" SOLID WHITE
2. URETHANE PAVEMENT MARKING LINE - 12" SOLID WHITE
3. URETHANE PAVEMENT MARKING LINE - 6" SKIP DASH WHITE
4. URETHANE PAVEMENT MARKING LINE - 6" SOLID YELLOW
5. RAISED REFLECTIVE PAVEMENT MARKERS - CRYSTAL, ONE-WAY
6. RAISED REFLECTIVE PAVEMENT MARKERS - AMBER, ONE-WAY
7. URETHANE PAVEMENT MARKING LINE - 8" SOLID WHITE
8. URETHANE PAVEMENT MARKING LINE - 6" SKIP DASH WHITE (12' SEE DETAIL A)
9. URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
10. URETHANE PAVEMENT MARKING LINE - 6" SOLID WHITE
11. URETHANE PAVEMENT MARKING LINE - 12" SOLID YELLOW
12. URETHANE PAVEMENT MARKING LINE - 4" SOLID YELLOW

NOTE: STATIONING OF RAMP A IS REVERSED

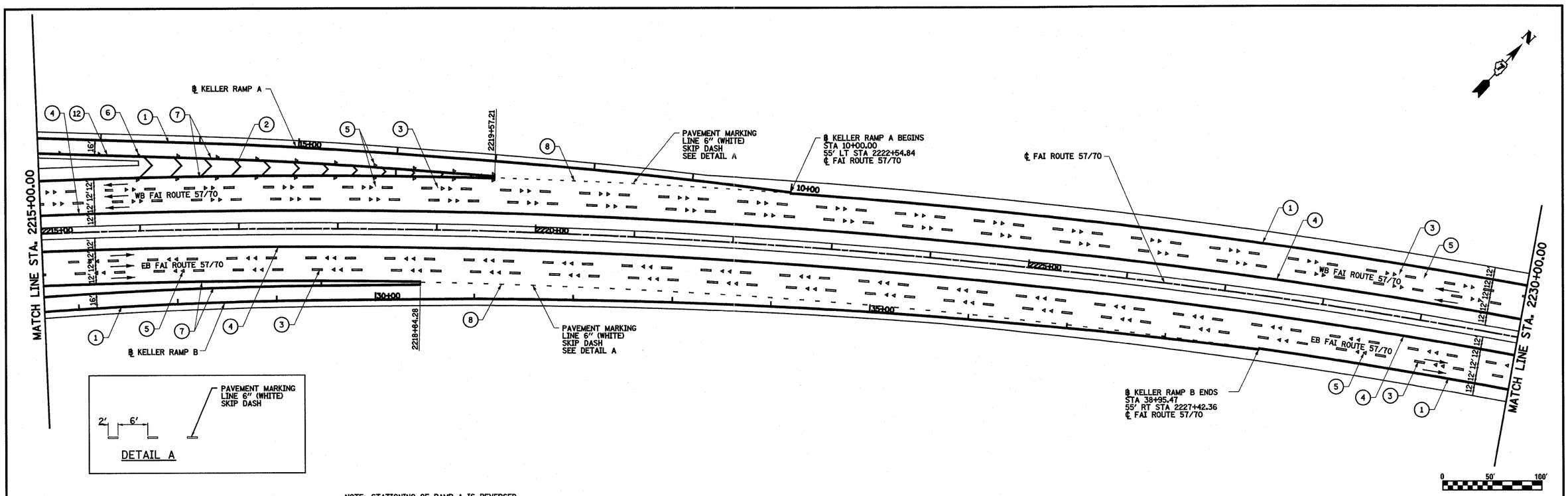
FILE NAME = S:\Projects\485-98872.57-70\dgn\ML_Keller\pak_5770.dgn	USER NAME = bseibel	DESIGNED - JWS	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/17/2011	DATE - 4-08-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING, FAI ROUTE 57/70

SCALE: 1"=50' | SHEET NO. 7 OF 10 SHEETS | STA. 2220+00.00 TO STA. 2215+00.00

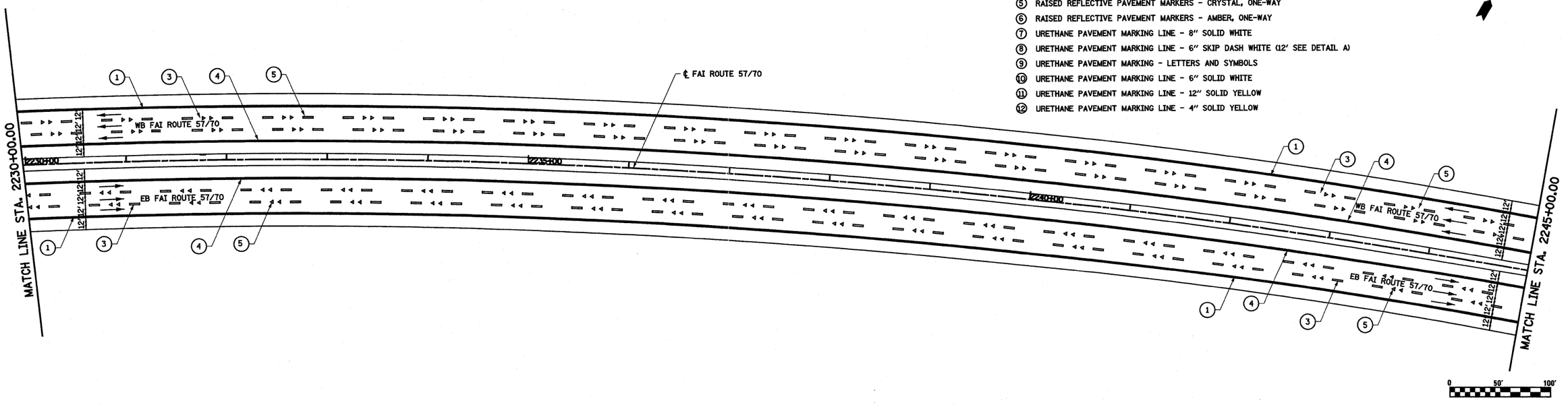
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	239
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTE: STATIONING OF RAMP A IS REVERSED

LEGEND

1. URETHANE PAVEMENT MARKING LINE - 4" SOLID WHITE
2. URETHANE PAVEMENT MARKING LINE - 12" SOLID WHITE
3. URETHANE PAVEMENT MARKING LINE - 6" SKIP DASH WHITE
4. URETHANE PAVEMENT MARKING LINE - 6" SOLID YELLOW
5. RAISED REFLECTIVE PAVEMENT MARKERS - CRYSTAL, ONE-WAY
6. RAISED REFLECTIVE PAVEMENT MARKERS - AMBER, ONE-WAY
7. URETHANE PAVEMENT MARKING LINE - 8" SOLID WHITE
8. URETHANE PAVEMENT MARKING LINE - 6" SKIP DASH WHITE (12' SEE DETAIL A)
9. URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
10. URETHANE PAVEMENT MARKING LINE - 6" SOLID WHITE
11. URETHANE PAVEMENT MARKING LINE - 12" SOLID YELLOW
12. URETHANE PAVEMENT MARKING LINE - 4" SOLID YELLOW



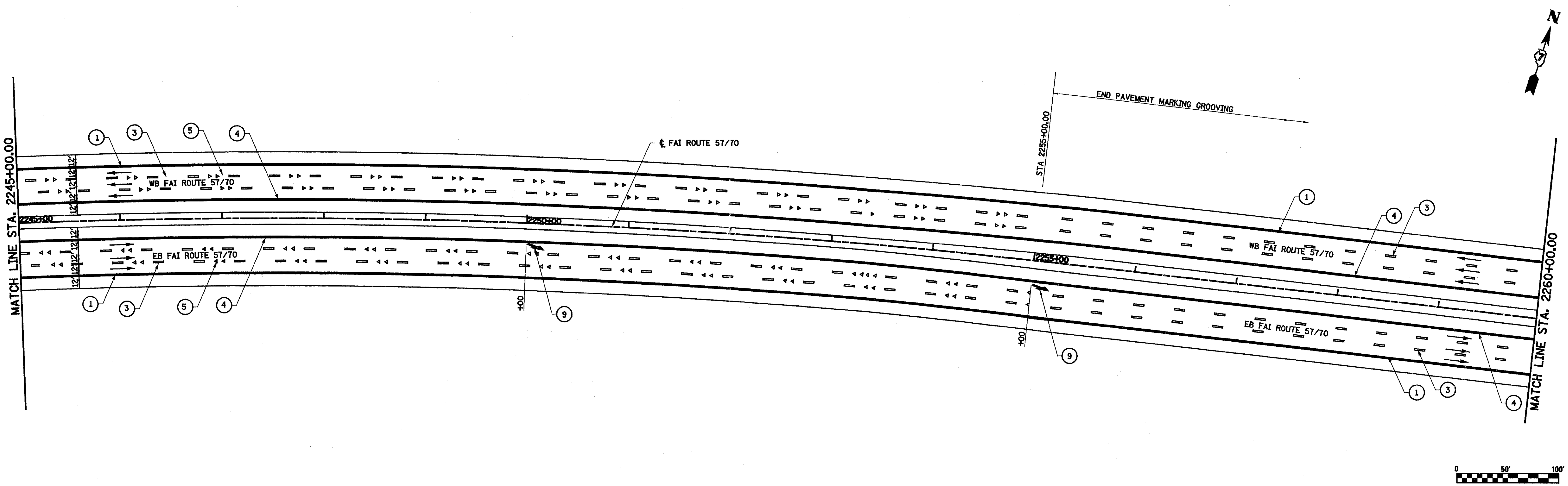
FILE NAME = S:\Projects\483-00072.57-70\dgn\ML_Keller\pmk_5770.dgn	USER NAME = bseibel	DESIGNED - JWS	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/17/2011	DATE - 4-08-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING, FAI ROUTE 57/70

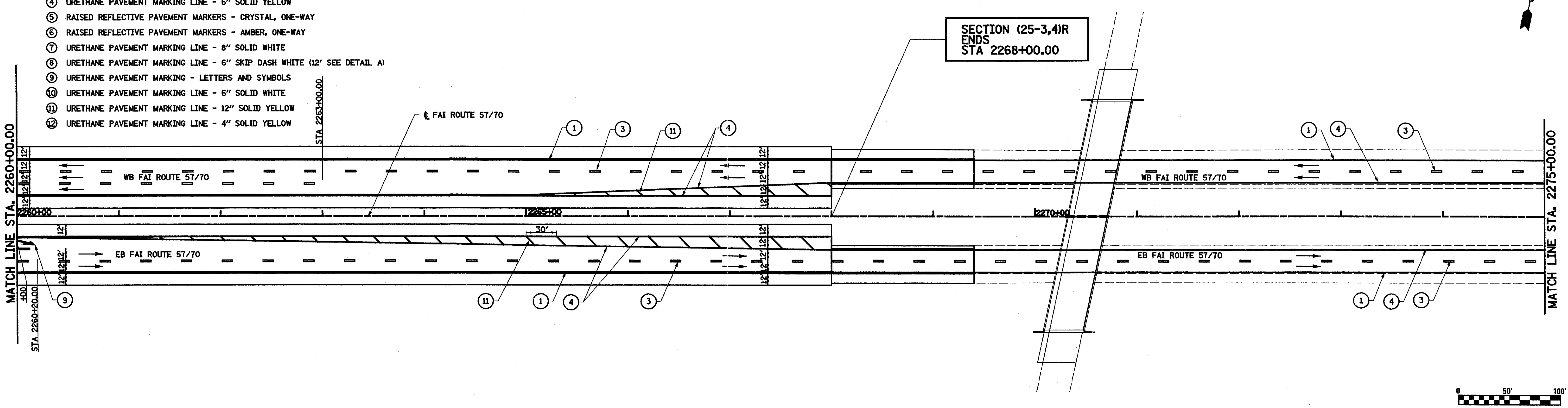
SCALE: 1"=50' | SHEET NO. 8 OF 10 SHEETS | STA. 2215+00.00 TO STA. 2245+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	240
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

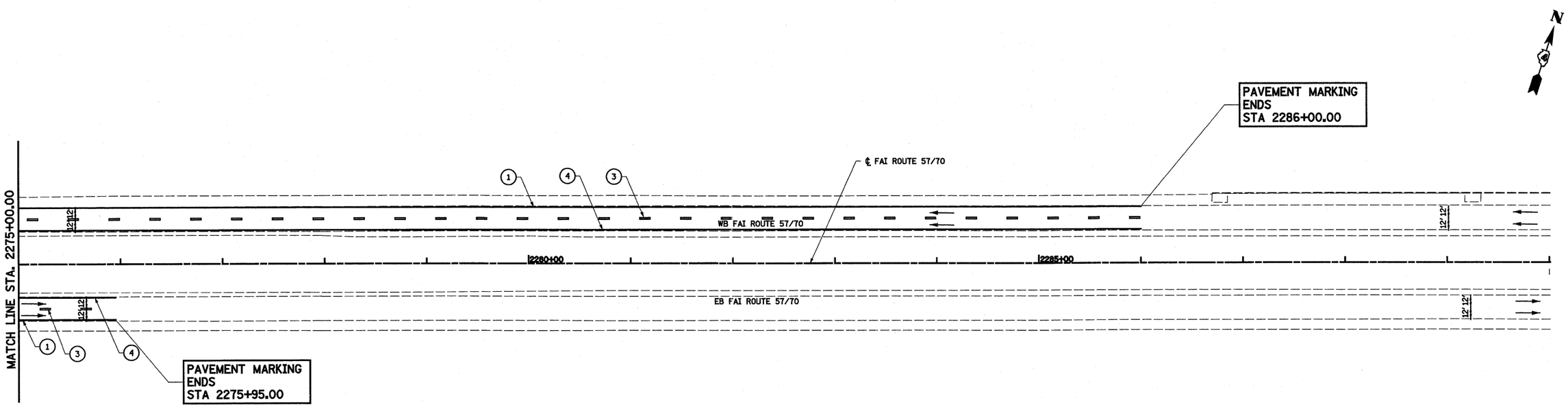


LEGEND

1. URETHANE PAVEMENT MARKING LINE - 4" SOLID WHITE
2. URETHANE PAVEMENT MARKING LINE - 12" SOLID WHITE
3. URETHANE PAVEMENT MARKING LINE - 6" SKIP DASH WHITE
4. URETHANE PAVEMENT MARKING LINE - 6" SOLID YELLOW
5. RAISED REFLECTIVE PAVEMENT MARKERS - CRYSTAL, ONE-WAY
6. RAISED REFLECTIVE PAVEMENT MARKERS - AMBER, ONE-WAY
7. URETHANE PAVEMENT MARKING LINE - 8" SOLID WHITE
8. URETHANE PAVEMENT MARKING LINE - 6" SKIP DASH WHITE (12' SEE DETAIL A)
9. URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
10. URETHANE PAVEMENT MARKING LINE - 6" SOLID WHITE
11. URETHANE PAVEMENT MARKING LINE - 12" SOLID YELLOW
12. URETHANE PAVEMENT MARKING LINE - 4" SOLID YELLOW



FILE NAME = S:\Projects\...	USER NAME = bseibel	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING, FAI ROUTE 57/70	F.A.I. RTE. 57/70; SECTION (25-3,4)R; COUNTY EFFINGHAM; TOTAL SHEETS 1098; SHEET NO. 241
		DRAWN - PDB	REVISED -			CONTRACT NO. 74299
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -		SCALE: 1"=50' / SHEET NO. 9 OF 10 SHEETS / STA. 2245+00.00 TO STA. 2275+00.00	FED. ROAD DIST. NO. / ILLINOIS / FED. AID PROJECT
	PLOT DATE = 3/17/2011	DATE - 4-08-08	REVISED -			



LEGEND

1. URETHANE PAVEMENT MARKING LINE - 4" SOLID WHITE
2. URETHANE PAVEMENT MARKING LINE - 12" SOLID WHITE
3. URETHANE PAVEMENT MARKING LINE - 6" SKIP DASH WHITE
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9. URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
10. URETHANE PAVEMENT MARKING LINE - 6" SOLID WHITE
11. URETHANE PAVEMENT MARKING LINE - 12" SOLID YELLOW
12. URETHANE PAVEMENT MARKING LINE - 4" SOLID YELLOW

0 50' 100'

FILE NAME = S:\Projects\483-00072.57-70\dgn\ML_Keller\pmk_5770.dgn	USER NAME = paul	DESIGNED - JWS	REVISED -
		DRAWN - MAB	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 3-31-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING, FAI ROUTE 57/70

SCALE: 1"=50' | SHEET NO. 10 OF 10 SHEETS | STA. 2275+00.00 TO STA. 2305+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	242
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

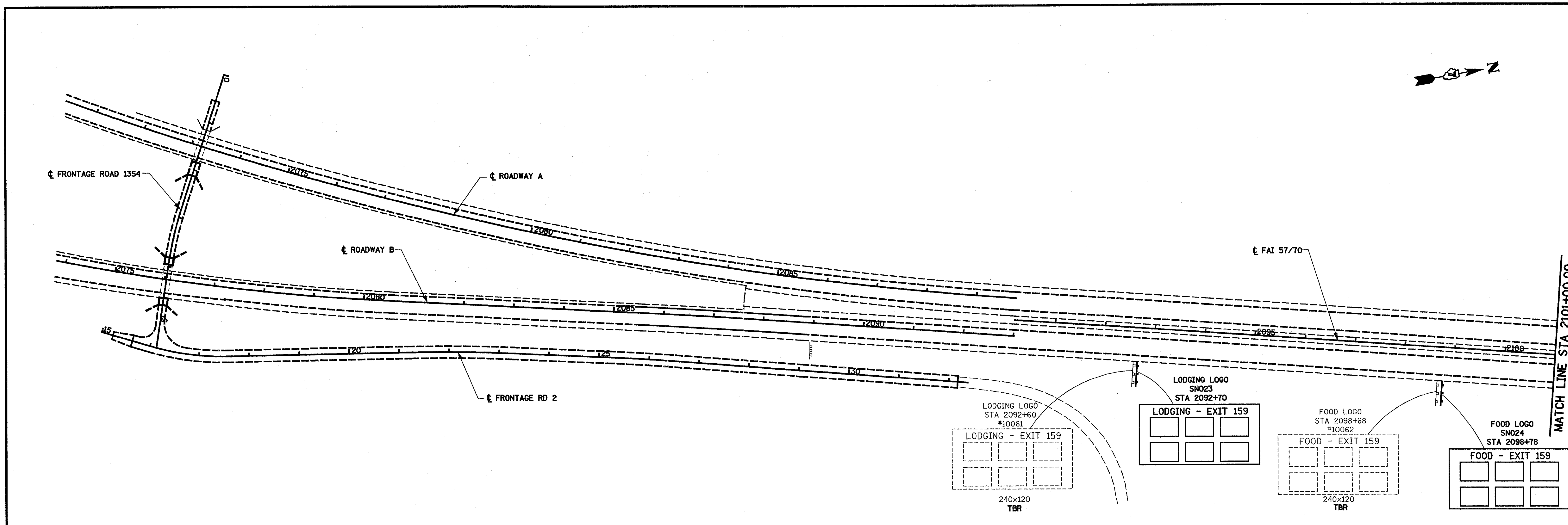
SIGNING SCHEDULE

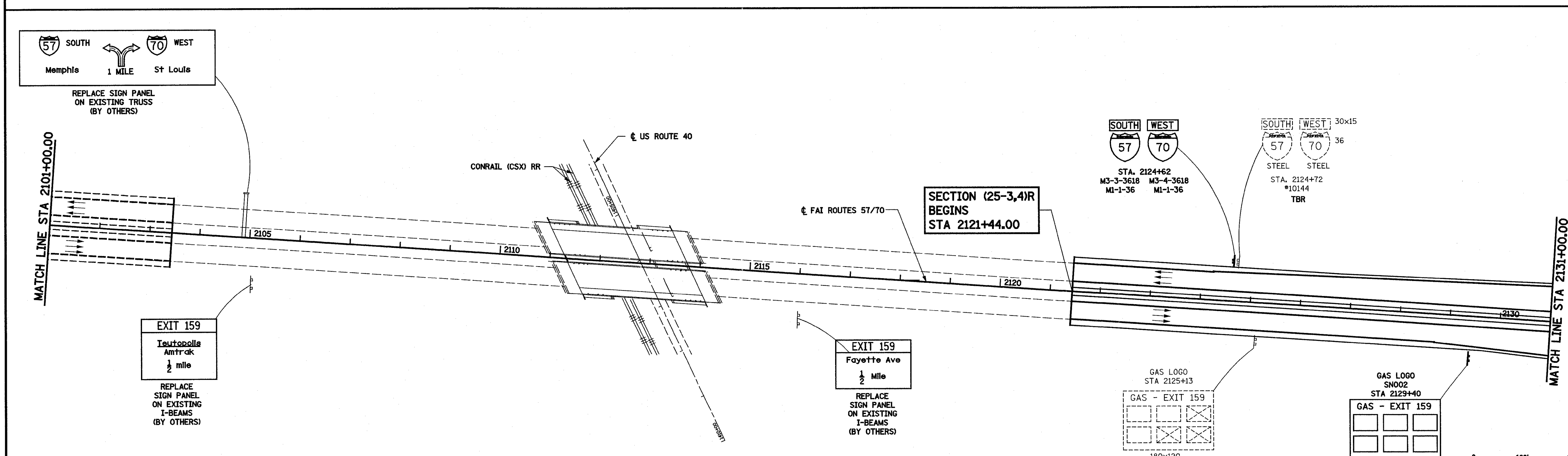
STATION	ROADWAY	SIDE	STRUCTURE NUMBER OR SIGN TYPE	SIGN PANEL - TYPE 1 (SQ FT)	SIGN PANEL - TYPE 2 (SQ FT)	SIGN PANEL - TYPE 3 (SQ FT)	REMOVE SIGN PANEL - TYPE 2 (SQ FT)	REMOVE SIGN PANEL - TYPE 3 (SQ FT)	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY (POUND)	TUBULAR STEEL SIGN SUPPORT - BREAKAWAY (POUND)	WOOD SIGN SUPPORT (FOOT)	OVERHEAD SIGN STRUCTURE - SPAN TYPE I-A (4'-0" X 4'-6") (FOOT)	OVERHEAD SIGN STRUCTURE-CANTILEVER, TYPE II-C-A (36" X 5'-6") (FOOT)	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A (FOOT)	CONCRETE FOUNDATIONS (CU YD)	DRILLED SHAFT CONCRETE FOUNDATIONS (CU YD)	REMOVE OVERHEAD SIGN STRUCTURE - SPAN (EACH)	REMOVE GROUND-MOUNTED SIGN SUPPORT (EACH)	REMOVE CONCRETE FOUNDATION - GROUND MOUNT (EACH)	REMOVE CONCRETE FOUNDATION - OVERHEAD (EACH)
STA 2092+60	I-57/70	RT	EXISTING SIGN					200										3	3	
STA 2092+70	I-57/70	RT	SN023			200			1395						3.8					
STA 2098+68	I-57/70	RT	EXISTING SIGN					200										3	3	
STA 2098+78	I-57/70	RT	SN024			200			1395						3.8					
STA 2124+62	I-57/70	LT	M3-3-3618 & M1-1-36	13.5						199.4					0.7					
STA 2124+62	I-57/70	LT	M3-4-3618 & M1-1-36	13.5																
STA 2125+13	I-57/70	RT	EXISTING SIGN					150										2	2	
STA 2129+40	I-57/70	RT	SN002			150			1219.9						2.82					
STA 2131+68	I-57/70	RT	7S025I057R159.0			206						91		57	16.9	22.7				
STA 2134+81	I-57/70	RT	EX. STRUCTURE														1			2
STA 2137+29	I-57/70	RT	EXISTING SIGN					37.50												
STA 2137+39	I-57/70	RT	E5-1a-9660			40					36									
STA 2144+67	I-57/70	RT	EXISTING SIGN					72.5										2	2	
STA 2144+77	I-57/70	RT	SN001		16	87.75			955.2						2.36					
STA 2156+32	I-57/70	LT	E5-1a-9660			40					36									
STA 2156+70	I-57/70	LT	EXISTING SIGN					37.5												
STA 2158+88	I-57/70	LT	EX. STRUCTURE														1			2
STA 2161+20	I-57/70	LT	7S025I057L159.6			494						89		56		34.7				
STA 2164+30	I-57/71	LT	SN003			150			1450.2						3.8					
STA 2165+09	I-57/70	RT	EXISTING SIGN					104.0										2	2	
STA 2165+19	I-57/70	RT	7C025I057R159.6			195.75							30	19.5		22.3				
STA 2165+80	I-57/70	LT	EXISTING SIGN					187.5										2	2	
STA 2169+05	I-57/70	RT	EXISTING SIGN					250.0										3	3	
STA 2171+00	I-57/70	RT	SN004			250			2014						4.18					
STA 2172+17	I-57/70	RT	EXISTING SIGN					187.5										2	2	
STA 2172+30	I-57/70	LT	SN005			250			2512.8						4.46					
STA 2172+40	I-57/70	LT	EXISTING SIGN					200.0										3	3	
STA 2175+90	I-57/70	RT	EXISTING SIGN					117.0										2	2	
STA 2176+00	I-57/70	RT	7C025I057R159.8			154							30	19.5		8.8				
STA 2178+90	I-57/70	LT	7C025I057L159.9			206.5							30	19.5		8.8				
STA 2179+00	I-57/70	RT	SN008			187.5			1527.6						3.8					
STA 2179+00	I-57/70	LT	EXISTING SIGN					110.5										2	2	
STA 2185+02	I-57/70	RT	EXISTING SIGN					37.5												
STA 2187+05	I-57/70	RT	E5-1a-9660			40					36									
STA 2213+76	I-57/70	LT	E5-1a-9660			40					36									
STA 2213+86	I-57/70	LT	EXISTING SIGN					37.5												
STA 2216+13	I-57/70	LT	EX. STRUCTURE														1			2
STA 2219+50	I-57/70	LT	7S025I057L160.7			240.25						90		58		26.7				
STA 2225+78	I-57/70	RT	M3-1-3618 & M1-1-36	13.5						201.5					0.7					
STA 2225+78	I-57/70	RT	M3-2-36185 & M1-1-36	13.5																
STA 2226+90	I-57/70	LT	SN006			203			2074.5						4.18					
STA 2227+00	I-57/70	LT	EXISTING SIGN					175.0										2	2	
STA 2234+90	I-57/70	LT	SN007		16	100			1114.6						2.36					
STA 2235+00	I-57/70	LT	EXISTING SIGN					104.0										2	2	
STA 2242+45	I-57/70	LT	EXISTING SIGN					150.0										2	2	
STA 2242+90	I-57/70	LT	SN009			150			1170						2.82					
STA 2242+95	I-57/70	RT	EXISTING SIGN					200.0										2	2	
STA 2243+05	I-57/70	RT	SN010			200			1395						3.8					
STA 2249+00	I-57/70	RT	EX. STRUCTURE														1			2
STA 2249+25	I-57/70	RT	7S025I057R161.3			575.25						72		56.5		26.1				
STA 2249+87	I-57/70	LT	EXISTING SIGN					200.0										3	3	
STA 2250+90	I-57/70	LT	SN011			200			1395						3.8					
STA 2257+03	I-57/70	RT	EXISTING SIGN					150.0										2	2	
STA 2257+10	I-57/70	RT	SN012			150			1170						2.82					
STA 2257+28	I-57/70	LT	EXISTING SIGN					200.0										2	2	
STA 2258+90	I-57/70	LT	SN013			200			1375.2						3.8					
STA 2260+00	I-57/70	RT	W9-1L-48		16															
STA 2263+00	I-57/70	RT	W4-2L-48		16															
STA 2264+77	I-57/70	LT	EXISTING SIGN					90.0										2	2	
STA 2265+00	I-57/70	RT	EXISTING SIGN					150.0										2	2	
STA 2265+10	I-57/70	RT	SN014			150			1170						2.82					
STA 2266+90	I-57/70	LT	SN015			90			657						1.4					
STA 21+79	KEL RAMP A	RT	EXISTING SIGN					195.0										2	2	
STA 22+50	KEL RAMP A	RT	SN016			62.5			531.2						1.4					
STA 23+50	KEL RAMP A	RT	SN017			100			931.3						2.36					
STA 23+78	KEL RAMP A	RT	EXISTING SIGN				20.00	120.0										2	2	
STA 24+50	KEL RAMP A	RT	SN018			100			920.3						2.36					
STA 25+50	KEL RAMP A	RT	SN019			100			944.1						2.36					
STA 25+73	KEL RAMP A	RT	EXISTING SIGN					120.0										2	2	
STA 26+98	KEL RAMP A	LT/RT	7S025I057L160.4			285.5						71		46		20.6				
STA 27+48	KEL RAMP A	LT/RT	EX. STRUCTURE														1			2
STA 28+50	KEL RAMP A	RT	SN020			31.5			453.8						1.4					
STA 18+65	KEL RAMP C	RT	EXISTING SIGN					150										2	2	
STA 20+65	KEL RAMP C	RT	EXISTING SIGN					150										2	2	
STA 21+30	KEL RAMP C	RT	SN021			125			1004.7						2.36					
STA 22+30	KEL RAMP C	RT	SN022			125			1004.7						2.36					
			PAY TOTAL	54	64	6080	20	4083	29782	401	144	413	90	332	89.8	170.7	5	55	55	10

NOTES:

1. THE SIGN STRUCTURE PLANS WERE PREPARED BASED ON THE ASSUMPTION OF AVERAGE COHESIVE SOILS AND A MINIMUM QU OF 1.25 TONS/S.F. THE RESIDENT ENGINEER SHALL CONTACT THE BUREAU OF MATERIALS 60 DAYS PRIOR TO THE CONTRACTOR'S ORDERING OF MATERIALS TO CONFIRM THE QU AND COHESIVE SOIL PROPERTIES ARE SUFFICIENT. IF NECESSARY, THE SIGN STRUCTURE FOUNDATIONS WILL BE RE-DESIGNED BY THE DEPARTMENT, AND THE CONTRACTOR WILL BE COMPENSATED FOR THE ACTUAL FOUNDATION DEPTH USED.
2. THE SHEETING FOR THE QUANTITY OF SIGN PANEL TYPE 3 INCLUDED IN THIS CONTRACT FOR SPEED LIMIT SIGNS SHALL BE OF THE SAME TYPE AS SIGN PANEL TYPE 1 AND 2. THE GUIDE SIGNS DETAILED ON THE PLANS SHALL USE TYPE ZZ.

SIGNING INDEX


N
℄ FRONTAGE ROAD 1354
℄ ROADWAY A
℄ ROADWAY B
℄ FRONTAGE RD 2
℄ FAI 57/70
MATCH LINE STA 2101+00.00
LODGING LOGO
STA 2092+60
*10061
LODGING - EXIT 159
240x120
TBR
LODGING LOGO
SN023
STA 2092+70
LODGING - EXIT 159
FOOD LOGO
STA 2098+68
*10062
FOOD - EXIT 159
240x120
TBR
FOOD LOGO
SN024
STA 2098+78
FOOD - EXIT 159


57 SOUTH
70 WEST
Memphis
1 MILE
St Louis
REPLACE SIGN PANEL
ON EXISTING TRUSS
(BY OTHERS)
MATCH LINE STA 2101+00.00
℄ US ROUTE 40
CONRAIL (CSX) RR
℄ FAI ROUTES 57/70
SECTION (25-3,4)R
BEGINS
STA 2121+44.00
SOUTH WEST
57 70
STA. 2124+62
M3-3-3618 M3-4-3618
M1-1-36 M1-1-36
SOUTH WEST 30x15
57 70 36
STEEL STEEL
STA. 2124+72
*10144
TBR
MATCH LINE STA 2131+00.00
EXIT 159
Teutopolis
Amtrak
½ mile
REPLACE
SIGN PANEL
ON EXISTING
I-BEAMS
(BY OTHERS)
EXIT 159
Fayette Ave
½ Mile
REPLACE
SIGN PANEL
ON EXISTING
I-BEAMS
(BY OTHERS)
GAS LOGO
STA 2125+13
GAS - EXIT 159
180x120
TBR
GAS LOGO
SN002
STA 2129+40
GAS - EXIT 159
0 100' 200'

TBR = TO BE REMOVED

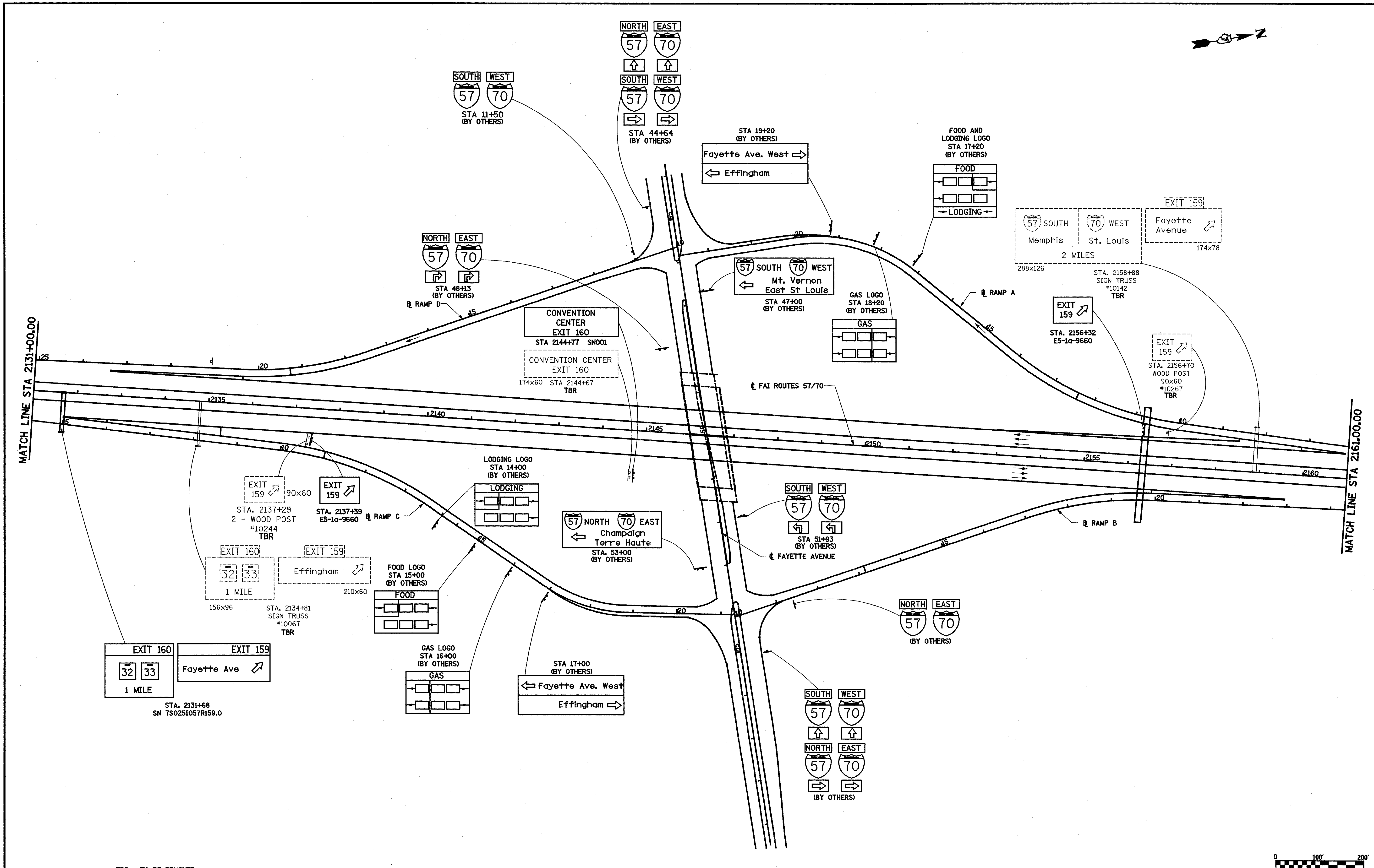
FILE NAME =	USER NAME = bseibel	DESIGNED - JWS	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 200.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/17/2011	DATE - 6-15-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUIDE SIGNING PLAN

SCALE: 1"=100' | SHEET NO. 2 OF 49 SHEETS | STA. 2103+00.00 TO STA. 2131+00.00

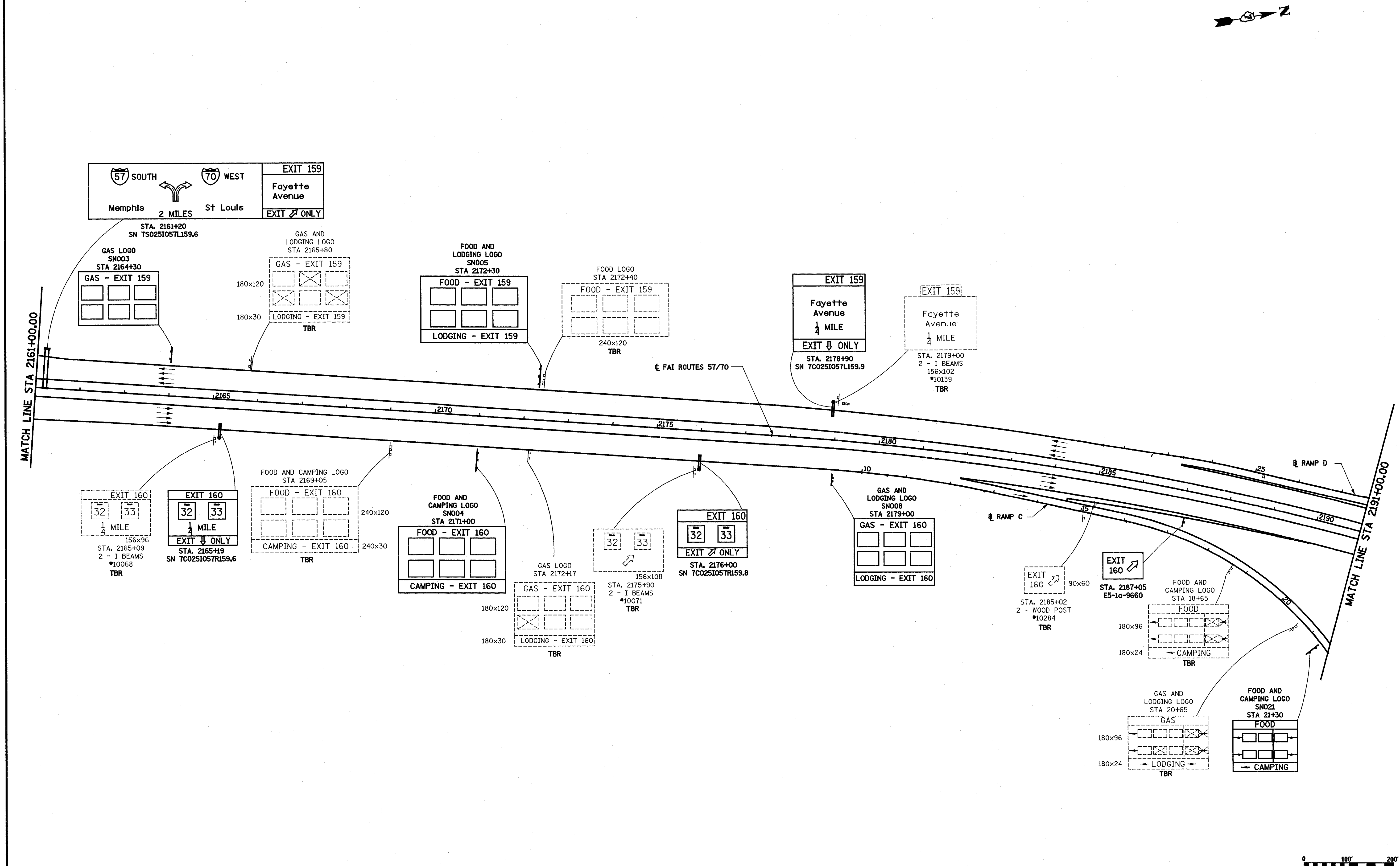
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4) R	EFFINGHAM	1098	244
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		


MATCH LINE STA 2131+00.00
MATCH LINE STA 2161,00.00
SOUTH 57 WEST 70
STA 11+50
(BY OTHERS)
NORTH 57 EAST 70
SOUTH 57 WEST 70
STA 44+64
(BY OTHERS)
STA 19+20
(BY OTHERS)
Fayette Ave. West
Effingham
FOOD AND LODGING LOGO
STA 17+20
(BY OTHERS)
FOOD
LODGING
57 SOUTH Memphis
70 WEST St. Louis
2 MILES
288x126
STA. 2158+88
SIGN TRUSS
#10142
TBR
EXIT 159
Fayette Avenue
174x78
NORTH 57 EAST 70
STA 48+13
(BY OTHERS)
RAMP D
CONVENTION CENTER EXIT 160
STA 2144+77 SN001
CONVENTION CENTER EXIT 160
174x60 STA 2144+67
TBR
57 SOUTH 70 WEST
Mt. Vernon
East St Louis
STA 47+00
(BY OTHERS)
GAS LOGO
STA 18+20
(BY OTHERS)
GAS
RAMP A
EXIT 159
STA. 2156+32
E5-1a-9660
EXIT 159
STA. 2156+70
WOOD POST
90x60
#10267
TBR
FAI ROUTES 57/70
EXIT 159
90x60
STA. 2137+29
2 - WOOD POST
#10244
TBR
EXIT 159
STA. 2137+39
E5-1a-9660
RAMP C
LODGING LOGO
STA 14+00
(BY OTHERS)
LODGING
57 NORTH 70 EAST
Champaign
Terre Haute
STA. 53+00
(BY OTHERS)
SOUTH 57 WEST 70
STA 51+93
(BY OTHERS)
FAYETTE AVENUE
RAMP B
EXIT 160
32 33
1 MILE
156x96
EXIT 159
Effingham
210x60
STA. 2134+81
SIGN TRUSS
#10067
TBR
FOOD LOGO
STA 15+00
(BY OTHERS)
FOOD
NORTH 57 EAST 70
(BY OTHERS)
EXIT 160
32 33
1 MILE
EXIT 159
Fayette Ave
STA. 2131+68
SN 7S025I057R159.0
GAS LOGO
STA 16+00
(BY OTHERS)
GAS
STA 17+00
(BY OTHERS)
Fayette Ave. West
Effingham
SOUTH 57 WEST 70
NORTH 57 EAST 70
(BY OTHERS)
0 100' 200'

TBR = TO BE REMOVED

FILE NAME = S:\Projects\483-00072_57-70\dgn\HL_Exlim\signing.dgn	USER NAME = bseibel	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GUIDE SIGNING PLAN
		DRAWN - PDB	REVISED -		
	PLOT SCALE = 200.0000 ' / IN.	CHECKED - BRM	REVISED -		
	PLOT DATE = 3/17/2011	DATE - 6-15-09	REVISED -		SCALE: 1"=100' SHEET NO. 3 OF 49 SHEETS STA. 2131+00.00 TO STA. 2161+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4) R	EFFINGHAM	1098	245
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



N
57 SOUTH
70 WEST
Memphis
2 MILES
St Louis
EXIT 159
Fayette Avenue
EXIT ONLY
STA. 2161+20
SN 7S025I057L159.6
GAS LOGO
SN003
STA 2164+30
GAS - EXIT 159
GAS AND LODGING LOGO
STA 2165+80
GAS - EXIT 159
180x120
180x30
LODGING - EXIT 159
TBR
FOOD AND LODGING LOGO
SN005
STA 2172+30
FOOD - EXIT 159
LODGING - EXIT 159
FOOD LOGO
STA 2172+40
FOOD - EXIT 159
240x120
TBR
EXIT 159
Fayette Avenue
1/4 MILE
EXIT ONLY
STA. 2178+90
SN 7C025I057L159.9
EXIT 159
Fayette Avenue
1/4 MILE
STA. 2179+00
2 - I BEAMS
156x102
#10139
TBR
℄ FAI ROUTES 57/70
MATCH LINE STA 2161+00.00
2165
2170
2175
2180
2185
2190
10
15
20
25
℄ RAMP D
℄ RAMP C
MATCH LINE STA 2191+00.00
EXIT 160
32
33
1/4 MILE
156x96
STA. 2165+09
2 - I BEAMS
#10068
TBR
EXIT 160
32
33
1/4 MILE
EXIT ONLY
STA. 2165+19
SN 7C025I057R159.6
FOOD AND CAMPING LOGO
STA 2169+05
FOOD - EXIT 160
240x120
CAMPING - EXIT 160
240x30
TBR
FOOD AND CAMPING LOGO
SN004
STA 2171+00
FOOD - EXIT 160
CAMPING - EXIT 160
GAS LOGO
STA 2172+17
GAS - EXIT 160
180x120
180x30
LODGING - EXIT 160
TBR
32
33
156x108
STA. 2175+90
2 - I BEAMS
#10071
TBR
EXIT 160
32
33
EXIT ONLY
STA. 2176+00
SN 7C025I057R159.8
GAS AND LODGING LOGO
SN008
STA 2179+00
GAS - EXIT 160
LODGING - EXIT 160
EXIT 160
90x60
STA. 2185+02
2 - WOOD POST
#10284
TBR
EXIT 160
STA. 2187+05
E5-1a-9660
FOOD AND CAMPING LOGO
STA 18+65
FOOD
180x96
180x24
CAMPING
TBR
GAS AND LODGING LOGO
STA 20+65
GAS
180x96
180x24
LODGING
TBR
FOOD AND CAMPING LOGO
SN021
STA 21+30
FOOD
CAMPING
0
100'
200'

TBR = TO BE REMOVED

FILE NAME = S:\Projects\183-88072_57-70\dgn\M_Rolle\signing.dgn
USER NAME = paul
PLOT SCALE = 200.0000 ' / IN.
PLOT DATE = 3/18/2011

DESIGNED - JWS
DRAWN - PDB
CHECKED - BRM
DATE - 6-15-09

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

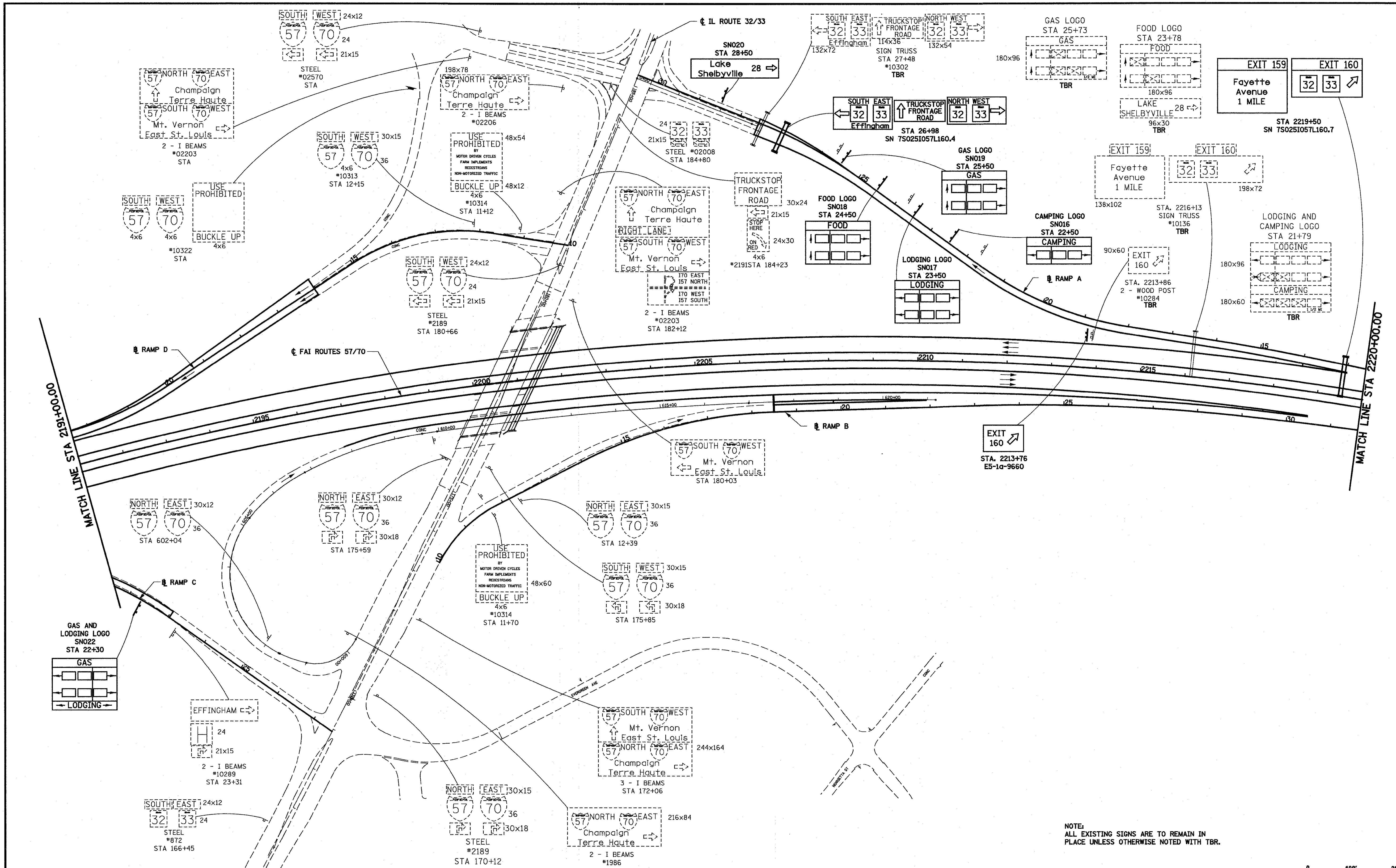
GUIDE SIGNING PLAN

SCALE: 1"=100' | SHEET NO. 4 OF 49 SHEETS | STA. 2161+00.00 TO STA. 2191+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4) R	EFFINGHAM	1098	246

CONTRACT NO. 74299

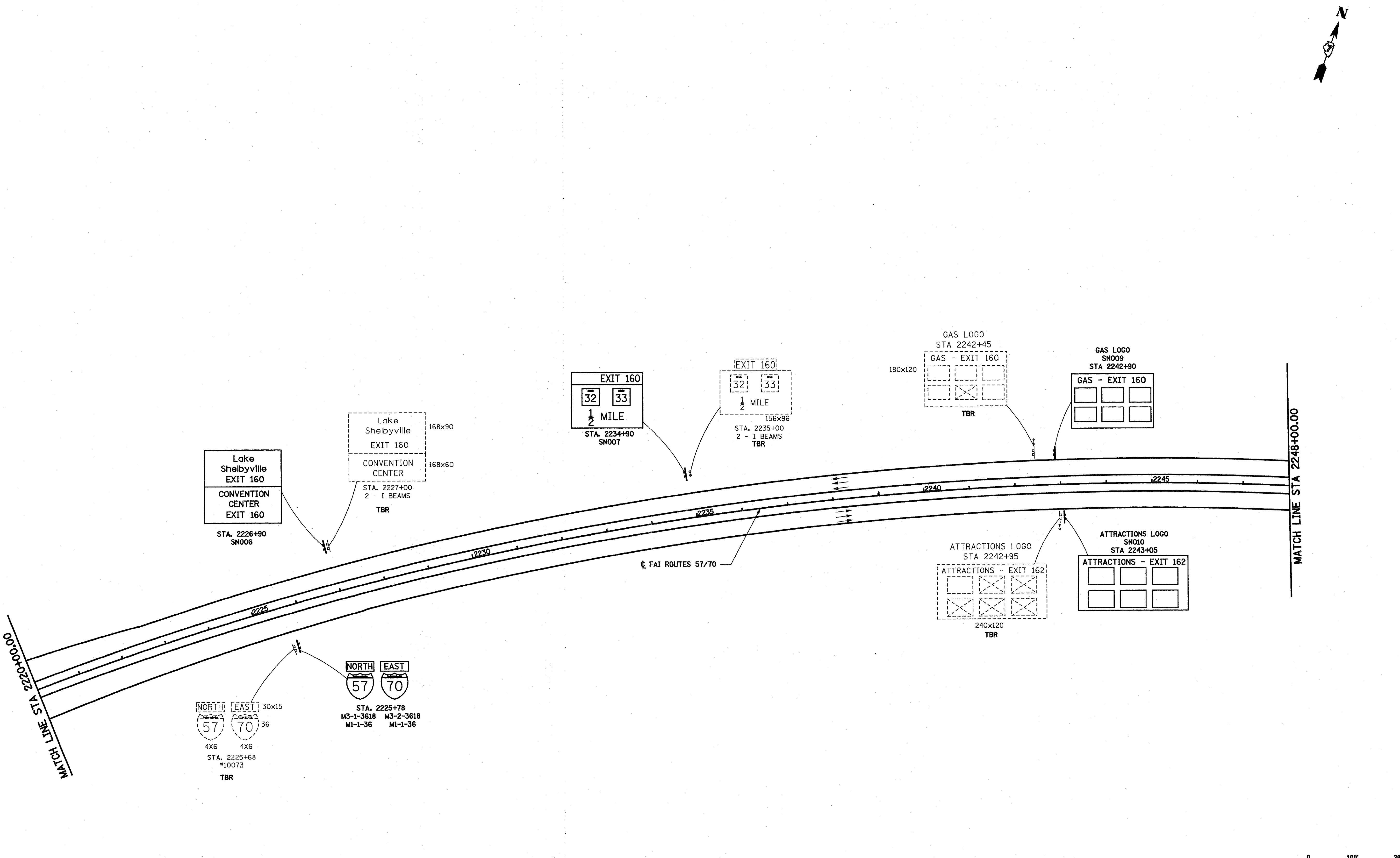
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



℄ IL ROUTE 32/33
SN020
STA 28+50
Lake Shelbyville 28
SOUTH EAST 32 33 Effingham
TRUCKSTOP FRONTAGE ROAD
NORTH WEST 32 33
132x72
114x36
132x54
SIGN TRUSS
STA 27+48
#10302
TBR
STA 26+98
SN 7S025I057L160.4
GAS LOGO
STA 25+73
GAS
180x96
TBR
FOOD LOGO
STA 23+78
FOOD
180x96
LAKE SHELBYVILLE 28
96x30
TBR
EXIT 159
Fayette Avenue 1 MILE
EXIT 160
32 33
STA 2219+50
SN 7S025I057L160.7
GAS LOGO
SN019
STA 25+50
FOOD LOGO
SN018
STA 24+50
LODGING LOGO
SN017
STA 23+50
LODGING
CAMPING LOGO
SN016
STA 22+50
CAMPING
138x102
198x72
STA. 2216+13
SIGN TRUSS
#10136
TBR
LODGING AND CAMPING LOGO
STA 21+79
180x60
90x60
EXIT 160
STA. 2213+86
2 - WOOD POST
#10284
TBR
℄ RAMP A
℄ RAMP B
℄ RAMP C
℄ RAMP D
℄ FAI ROUTES 57/70
MATCH LINE STA 2191+00.00
MATCH LINE STA 2220+00.00
EXIT 160
STA. 2213+76
E5-1a-9660
SOUTH WEST 57 70 24x12 24 21x15
STEEL
#02570
STA
NORTH EAST 57 70 Champaign Terre Haute
SOUTH WEST 57 70 Mt. Vernon East St. Louis
2 - I BEAMS
#02203
STA
198x78
2 - I BEAMS
#02206
USE PROHIBITED
BY MOTOR DRIVEN CYCLES FARM IMPLEMENTS PEDESTRIANS NON-MOTORIZED TRAFFIC
BUCKLE UP
48x54
48x12
4x6
#10314
STA 11+12
SOUTH WEST 30x15 36
4x6
#10313
STA 12+15
4x6
#10322
STA
24
21x15
STEEL #02008
STA 184+80
TRUCKSTOP FRONTAGE ROAD
30x24
21x15
STOP HERE ON RED
24x30
4x6
#2191STA 184+23
RIGHT LANE
I70 EAST I57 NORTH I70 WEST I57 SOUTH
2 - I BEAMS
#02203
STA 182+12
STEEL
#2189
STA 180+66
STA 180+03
NORTH EAST 30x12
STA 602+04
30x12 36 30x18
STA 175+59
48x60
#10314
STA 11+70
30x15 36
STA 12+39
SOUTH WEST 30x15 36 30x18
STA 175+85
GAS AND LODGING LOGO
SN022
STA 22+30
EFFINGHAM
24
21x15
2 - I BEAMS
#10289
STA 23+31
SOUTH EAST 32 33 24x12 24
STEEL
#872
STA 166+45
NORTH EAST 30x15 36 30x18
STEEL
#2189
STA 170+12
244x164
3 - I BEAMS
STA 172+06
216x84
2 - I BEAMS
#1986
STA 171+06
EVERGREEN AVE
NOTE:
ALL EXISTING SIGNS ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED WITH TBR.
0 100' 200'

TBR = TO BE REMOVED

FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED - 4-27-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GUIDE SIGNING PLAN	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\Projects\...	PLOT SCALE = 200.0000 ' / IN.	DRAWN - PDB	REVISED -			57/70	(25-3,4) R	EFFINGHAM	1098	247
	PLOT DATE = 4/28/2011	CHECKED - BRM	REVISED -		SCALE: 1"=100' SHEET NO. 5 OF 49 SHEETS STA. 2191+00.00 TO STA. 2220+00.00	CONTRACT NO. 74299				
		DATE - 6-15-09	REVISED -			FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		


N
MATCH LINE STA 2220+00.00
MATCH LINE STA 2248+00.00
2225
2230
2235
2240
2245
℄ FAI ROUTES 57/70
Lake Shelbyville EXIT 160
CONVENTION CENTER EXIT 160
STA. 2226+90
SN006
Lake Shelbyville EXIT 160
168x90
CONVENTION CENTER
168x60
STA. 2227+00
2 - I BEAMS
TBR
EXIT 160
32 33
1/2 MILE
STA. 2234+90
SN007
EXIT 160
32 33
1/2 MILE
156x96
STA. 2235+00
2 - I BEAMS
TBR
GAS LOGO
STA 2242+45
GAS - EXIT 160
180x120
TBR
GAS LOGO
SN009
STA 2242+90
GAS - EXIT 160
ATTRACTIONS LOGO
STA 2242+95
ATTRACTIONS - EXIT 162
240x120
TBR
ATTRACTIONS LOGO
SN010
STA 2243+05
ATTRACTIONS - EXIT 162
NORTH EAST
57 70
STA. 2225+78
M3-1-3618 M3-2-3618
M1-1-36 M1-1-36
NORTH EAST 30x15
57 70 36
4X6 4X6
STA. 2225+68
*10073
TBR
0 100' 200'

TBR = TO BE REMOVED

FILE NAME = S:\Projects\403-00072_57-70\dgn\M_Keller\Misc Revs 4-29-2011\signing 4-29-2011.dgn	USER NAME = paul	DESIGNED - JWS	REVISED - 4-27-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GUIDE SIGNING PLAN
		DRAWN - PDB	REVISED -		
	PLOT SCALE = 200.0000 ' / IN.	CHECKED - BRM	REVISED -		SCALE: 1"=100' / SHEET NO. 6 OF 49 SHEETS / STA. 2220+00.00 TO STA. 224800.00
	PLOT DATE = 4/28/2011	DATE - 6-15-09	REVISED -		

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4) R	EFFINGHAM	1098	248
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

N

FOOD LOGO
STA 2249+87
FOOD - EXIT 160
240x120
TBR

FOOD LOGO
SN011
STA 2250+90
FOOD - EXIT 160

LODGING LOGO
STA 2257+28
LODGING - EXIT 160
240x120
TBR

LODGING LOGO
SN013
STA 2258+90
LODGING - EXIT 160

CAMPING LOGO
STA 2264+77
CAMPING - EXIT 160
180x72
TBR

SECTION (25-3,4)R
ENDS
STA 2268+00.00

CAMPING LOGO
SN015
STA 2266+90
CAMPING - EXIT 160

℄ FOURTH STREET

25:00

EXIT 160
32 33
1 MILE
156x96
STA. 2272+00
2 - I BEAMS
(BY OTHERS)

MATCH LINE STA 2248+00.00

2250 2255 2260 2265 2270

57 NORTH
Chicago
2 MILES

70 EAST
Indianapolis

EXIT 162
45
Sigel
Effingham
1 MILE

STA. 2249+25
SN 7S025I057R161.3

FOOD LOGO
STA 2257+03
FOOD - EXIT 162
180x120
TBR

FOOD LOGO
SN012
STA 2257+10
FOOD - EXIT 162

LEFT
LANE
ENDS

STA 2260+00*
W9-1L-48

STA 2263+00*
W4-2L-48

GAS LOGO
STA 2265+00
GAS - EXIT 162
180x120
TBR

GAS LOGO
SN014
STA 2265+10
GAS - EXIT 162

℄ FAI ROUTES 57/70

EXIT 162
57 NORTH
Chicago
70 EAST
Indianapolis
2 MILES
45
Sigel
1 MILE
336x126
STA. 2249+00
SIGN TRUSS
#10077
TBR
144x126

* SIGNS SHALL BE MAINTAINED ON SKIDS OR TRIPODS MEETING THE APPROVAL OF THE ENGINEER. COST OF SKIDS OR TRIPODS SHALL BE INCLUDED IN COSTS OF THE SIGN PANEL INVOLVED.

0 100' 200'

TBR = TO BE REMOVED

FILE NAME = S:\Projects\483-00072.57-70\dgn\GL_Exlite\signsmy.dgn	USER NAME = bseibel	DESIGNED - JWS	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 200.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/17/2011	DATE - 6-15-09	REVISED -

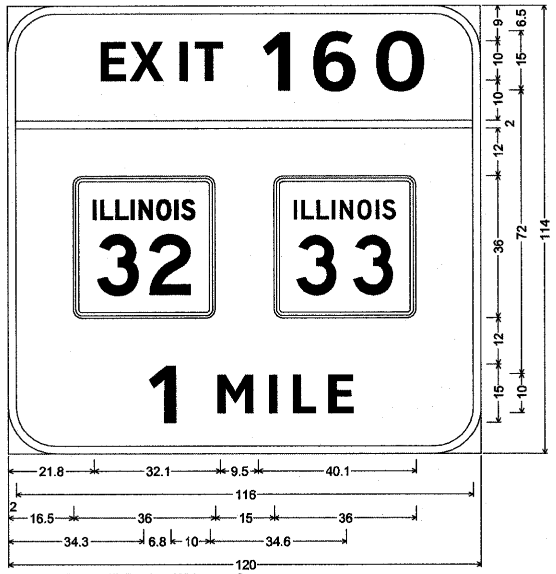
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUIDE SIGNING PLAN

SCALE: 1"=100' | SHEET NO. 7 OF 49 SHEETS | STA. 2248+00.00 TO STA. 2268+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4) R	EFFINGHAM	1098	249
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STRUCTURE NUMBER 7S025I057R159.0
STA 2131+68



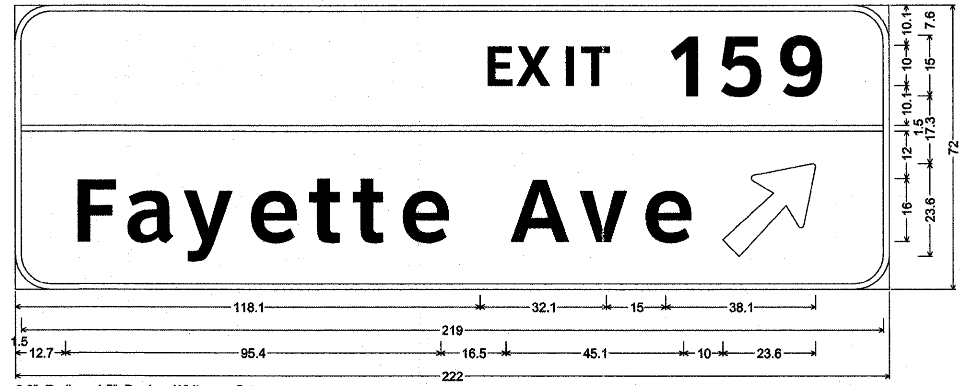
12.0" Radius, 2.0" Border, White on Green;
[EXIT 160] ClearviewHwy-5-W; [1 MILE] ClearviewHwy-5-W;
Table of widths and spaces.

	E		X		I		T		1		6		0	
21.8	6.3	2.2	8.6	2.8	1.9	3.0	7.3	9.5	6.9	5.3	10.9	4.8	12.2	16.5

2.0	116.0	2.0

16.5	36.0	15.0	36.0	16.5

	1		M		I		L		E	
34.3	6.8	10.0	9.3	3.9	1.9	4.1	5.9	3.1	6.4	34.3



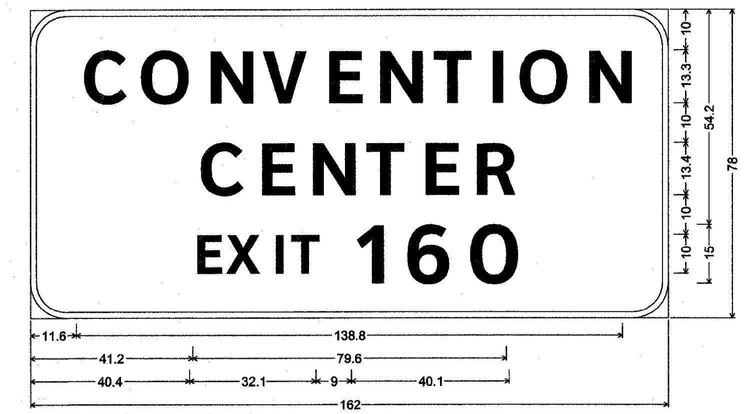
9.0" Radius, 1.5" Border, White on Green;
[EXIT 159] ClearviewHwy-5-W; [Fayette Ave] ClearviewHwy-5-W; Arrow 133 - 30.0" 45°;
Table of widths and spaces.

	E		X		I		T		1		5		9	
118.1	6.4	2.1	8.7	2.7	1.9	3.0	7.3	15.0	6.9	5.2	10.4	4.6	11.0	18.7

1.5	219.0	1.5

	F		a		y		e		t		t		e		A		v		e		⇗	
12.7	9.8	4.1	12.0	3.0	12.5	3.6	11.8	3.8	7.9	3.1	7.9	4.1	11.8	16.5	15.0	2.6	12.2	3.6	11.7	10.0	23.6	18.7

SN001
SIGN ON 2 I BEAMS
STA 2144+77



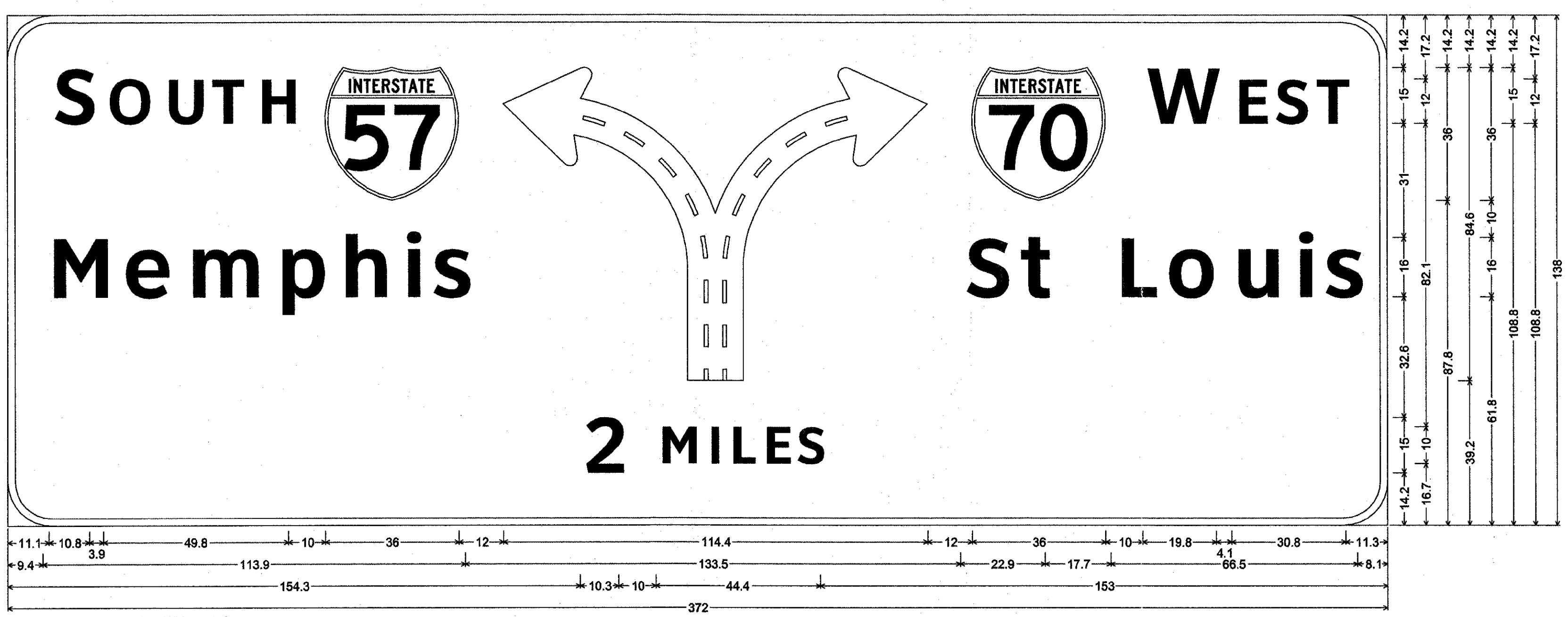
9.0" Radius, 1.5" Border, White on Brown;
[CONVENTION] ClearviewHwy-5-W; [CENTER] ClearviewHwy-5-W; [EXIT 160] ClearviewHwy-5-W;
Table of widths and spaces.

	C		O		N		V		E		N		T		I		O		N	
11.6	10.9	3.6	12.3	4.9	11.0	3.8	11.3	3.9	8.5	4.5	11.0	3.9	9.6	4.0	2.6	4.8	12.4	4.8	11.0	11.6

	C		E		N		T		E		R	
41.2	10.8	4.3	8.5	4.4	11.0	3.9	9.7	4.0	8.5	4.5	10.0	41.2

	E		X		I		T		1		6		0	
40.4	6.4	2.2	8.6	2.8	1.9	3.0	7.2	9.0	6.9	5.3	10.8	4.9	12.2	40.4

STRUCTURE NUMBER 7S025I057L159.6
STA 2161+20

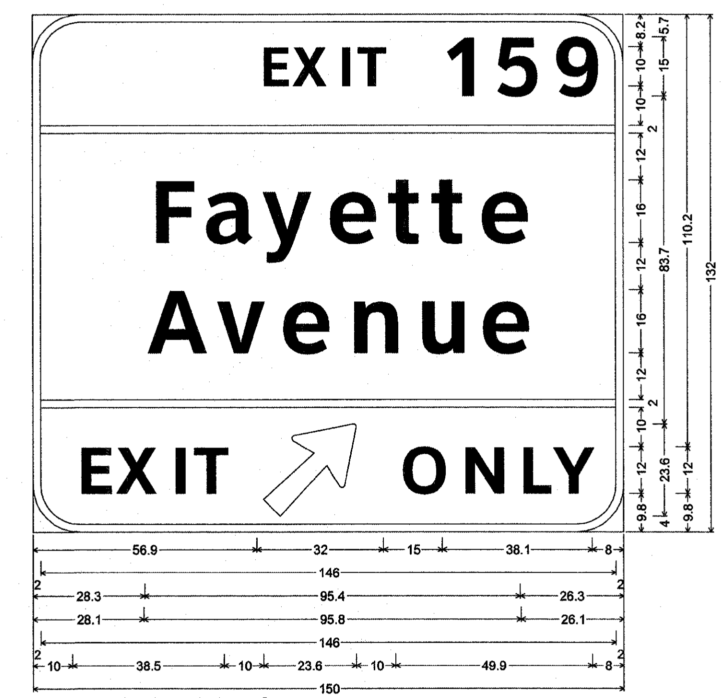


12.0" Radius, 2.0" Border, White on Green;
[S OUTH] ClearviewHwy-5-W; [Memphis] ClearviewHwy-5-W; Diagrammatic Arrow lane lines Black; [W EST] ClearviewHwy-5-W; [St Louis] ClearviewHwy-5-W; [2 MILES] ClearviewHwy-5-W;
Table of widths and spaces.

	S		O		U		T		H		57		Y		70		W		E		S		T	
11.1	10.8	3.9	11.1	4.3	9.3	3.6	8.7	3.6	9.2	10.0	36.0	12.0	114.4	12.0	36.0	10.0	19.8	4.1	7.7	3.1	8.7	2.6	8.7	11.3

	M		e		m		p		h		i		s		S		t		L		o		u		i		s	
9.4	14.7	5.6	11.8	5.4	18.1	6.0	11.6	5.4	11.2	5.7	3.7	4.5	10.2	133.5	11.6	3.4	7.9	17.7	9.4	4.2	12.4	5.4	11.0	5.7	3.8	4.4	10.2	8.1

	2		M		I		L		E		S	
154.3	10.3	10.0	9.2	4.0	1.9	4.1	5.8	3.2	6.4	2.6	7.2	153.0



12.0" Radius, 2.0" Border, White on Green;
[EXIT 159] ClearviewHwy-5-W; [Fayette] ClearviewHwy-5-W; [Avenue] ClearviewHwy-5-W;
[EXIT] ClearviewHwy-5-W; Arrow 133 - 30.0" 45°; [ONLY] ClearviewHwy-5-W;
Table of widths and spaces.

	E		X		I		T		1		5		9	
56.9	6.3	2.2	8.6	2.8	1.9	3.0	7.2	15.0	6.9	5.2	10.4	4.6	11.0	8.0

2.0	146.0	2.0

	F		a		y		e		t		t		e	
28.3	9.8	4.1	12.0	3.0	12.5	3.6	11.8	3.8	7.8	3.2	7.9	4.1	11.8	26.3

	A		v		e		n		u		e	
28.1	15.0	2.5	12.2	3.6	11.8	5.4	11.1	6.1	10.9	5.5	11.7	26.1

2.0	146.0	2.0

	E		X		I		T		⇗		O		N		L		Y	
10.0	7.7	2.6	10.3	3.4	2.3	3.6	8.6	10.0	23.6	10.0	11.1	4.3	9.9	4.8	7.1	2.2	10.5	8.0

NOT TO SCALE

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\Misc Revs 4-29-2011\sign panel details_Revs 4-29-2011.dgn	USER NAME = linda	DESIGNED - ESW	REVISED - 4-27-11
		DRAWN - LEC	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 4/21/2011	DATE - 3-15-09	REVISED -

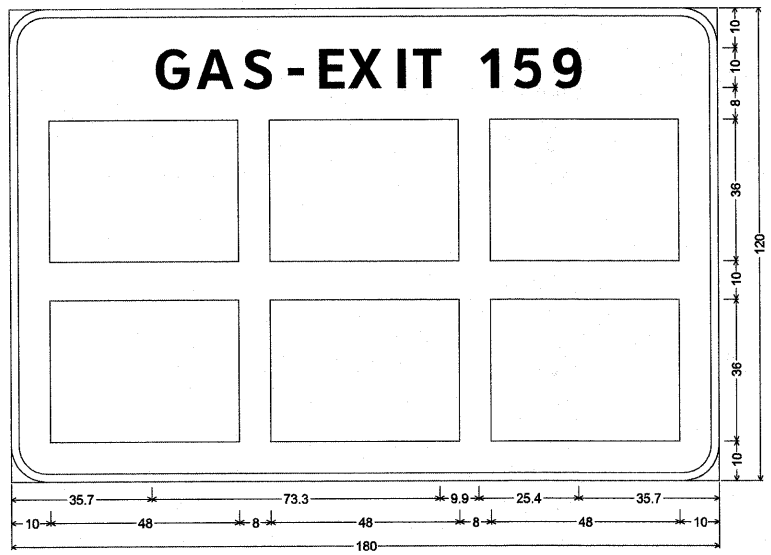
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS, FAI ROUTE 57/70

SCALE: 1"=50' | SHEET NO. 8 OF 49 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	250
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SN002 SN003
STA 2129+40 AND 2164+30



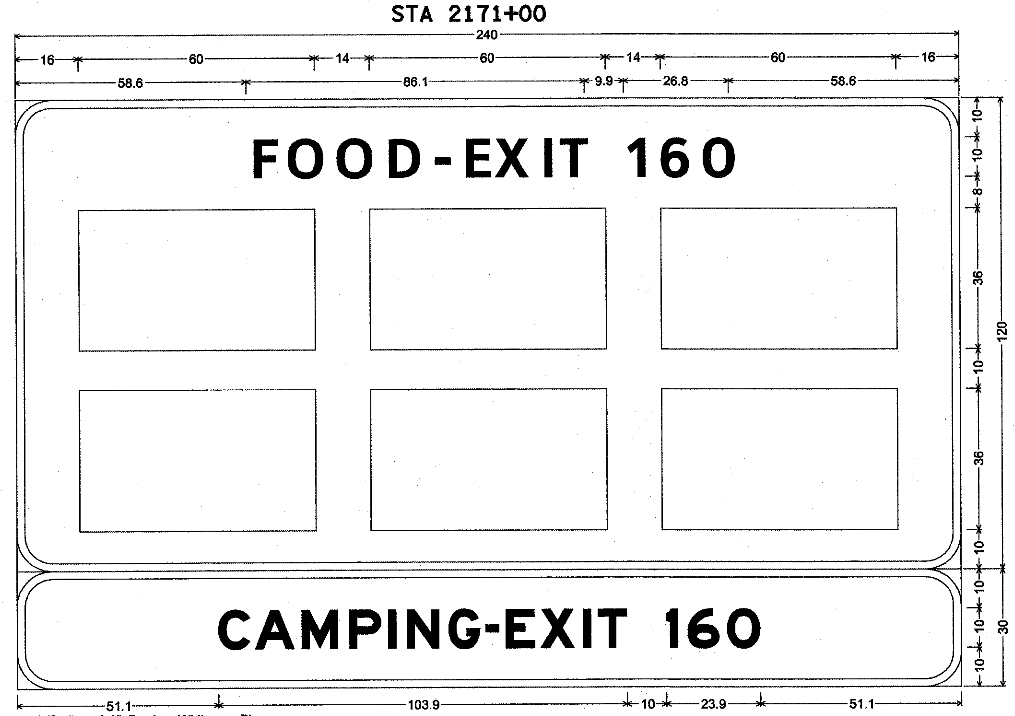
9.0" Radius, 2.0" Border, White on Blue;
[GAS-EXIT 159] ClearviewHwy-5-W; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
Table of widths and spaces.

	G		A		S		-		E		X		I		T		1		5		9	
35.7	8.7	2.5	9.4	2.1	7.3	3.3	3.9	4.0	6.3	2.2	8.6	2.8	1.9	3.0	7.3	9.9	4.6	3.4	7.0	3.1	7.3	35.7

	□		□		□	
10.0	48.0	8.0	48.0	8.0	48.0	10.0

	□		□		□	
10.0	48.0	8.0	48.0	8.0	48.0	10.0

SN004
STA 2171+00



9.0" Radius, 2.0" Border, White on Blue;
[FOOD-EXIT 160] ClearviewHwy-5-W; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
9.0" Radius, 2.0" Border, White on Blue;
[CAMPING-EXIT 160] E Mod 2K;
Table of widths and spaces.

	F		O		O		D		-		E		X		I		T		1		6		0	
58.6	6.1	2.9	9.3	3.2	9.3	3.6	8.1	3.6	3.9	4.0	6.4	2.1	8.7	2.7	2.0	3.0	7.2	9.9	4.6	3.6	7.2	3.2	8.2	58.6

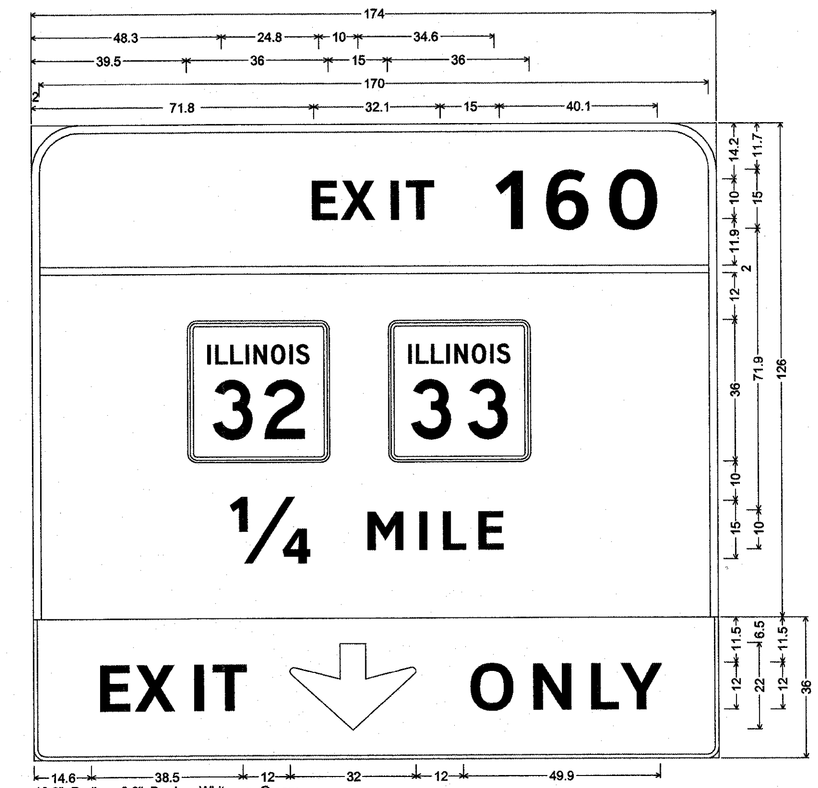
	□		□		□	
16.0	60.0	14.0	60.0	14.0	60.0	16.0

	□		□		□	
16.0	60.0	14.0	60.0	14.0	60.0	16.0

	C		A		M		P		I		N		G		-		E		X		I		T		1		6		0	
51.1	8.1	1.2	10.1	1.8	9.3	2.8	8.1	1.8	2.0	2.8	8.1	2.4	8.1	1.3	3.5	1.7	7.4	1.4	8.7	2.1	2.0	1.8	7.4	10.0	3.0	2.4	8.1	2.0	8.4	51.1

NOT TO SCALE

SN 7C025I057R159.6
STA 2165+19



12.0" Radius, 2.0" Border, White on Green;
[EXIT 160] ClearviewHwy-5-W; [1/4 MILE] ClearviewHwy-5-W;
3.0" Radius, 1.0" Border, Black on Yellow;
[EXIT] ClearviewHwy-5-W; Down Arrow 22.0" 270°; [ONLY] ClearviewHwy-5-W;
Table of widths and spaces.

	E		X		I		T		1		6		0	
71.8	6.4	2.1	8.7	2.7	1.9	3.0	7.3	15.0	6.9	5.3	10.9	4.8	12.2	15.0

	—	
2.0	170.0	2.0

	32		33	
39.5	36.0	15.0	36.0	47.5

	1/4		M		I		L		E	
48.3	24.8	10.0	9.2	3.9	2.0	4.0	5.9	3.2	6.4	56.3

	E		X		I		T		↓		O		N		L		Y	
14.6	7.7	2.5	10.4	3.3	2.3	3.6	8.7	12.0	32.0	12.0	11.1	4.4	9.9	4.8	7.0	2.2	10.5	15.0

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\Misc Revs 4-29-2011\sign panel details_Revs 4-29-2011.dgn	USER NAME = linda	DESIGNED - ESW	REVISED - 4-27-11
		DRAWN - LEC	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 4/21/2011	DATE - 6-15-09	REVISED -

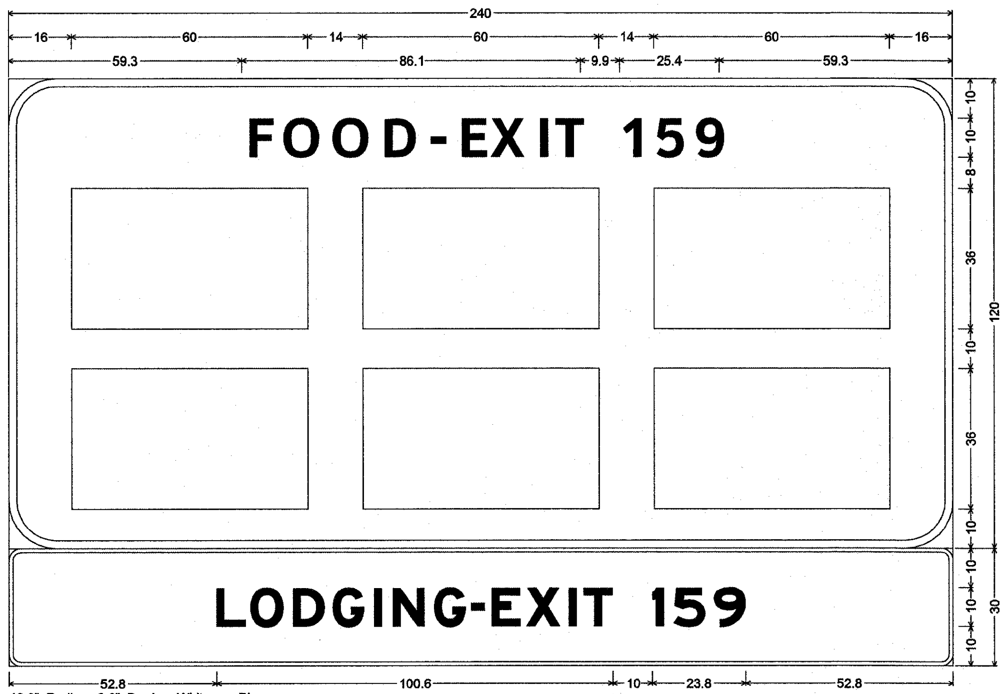
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS, FAI ROUTE 57/70

SCALE: 1"=50' | SHEET NO. 9 OF 49 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	251
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SN005
STA 2172+30



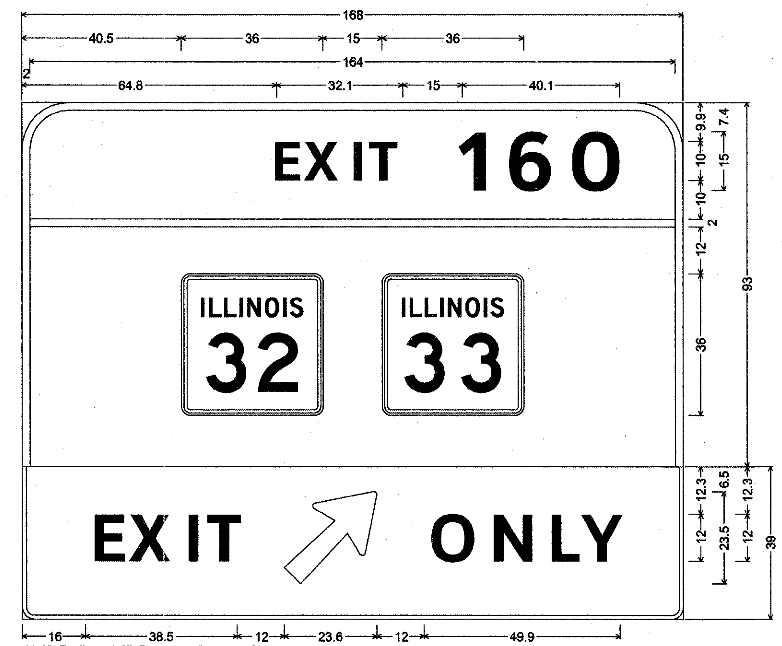
12.0" Radius, 2.0" Border, White on Blue;
[FOOD-EXIT 159] ClearviewHwy-5-W; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
3.0" Radius, 1.0" Border, White on Blue;
[LODGING-EXIT 159] E Mod 2K;
Table of widths and spaces.

59.3	F 6.1	2.9	O 9.3	3.2	O 9.3	3.6	D 8.1	3.6	- 3.9	4.0	E 6.4	2.1	X 8.7	2.7	I 1.9	3.0	T 7.3	9.9	1 4.6	3.4	5 7.0	3.1	9 7.3	59.3

16.0	▭ 60.0	14.0	▭ 60.0	14.0	▭ 60.0	16.0
16.0	▭ 60.0	14.0	▭ 60.0	14.0	▭ 60.0	16.0

52.8	L 7.4	1.2	O 8.4	2.3	D 8.1	2.0	G 8.1	2.5	I 2.0	2.8	N 8.1	2.4	G 8.1	1.2	- 3.5	1.7	E 7.4	1.4	X 8.7	2.1	I 2.0	1.8	T 7.4	10.0	1 3.0	2.5	5 8.1	2.1	9 8.1	52.8

SN 7C025I057R159.8
STA 2176+00



12.0" Radius, 2.0" Border, White on Green;
[EXIT 160] ClearviewHwy-5-W;
3.0" Radius, 1.0" Border, Black on Yellow;
[EXIT] ClearviewHwy-5-W; Arrow 133 - 30.0" 45°; [ONLY] ClearviewHwy-5-W;
Table of widths and spaces.

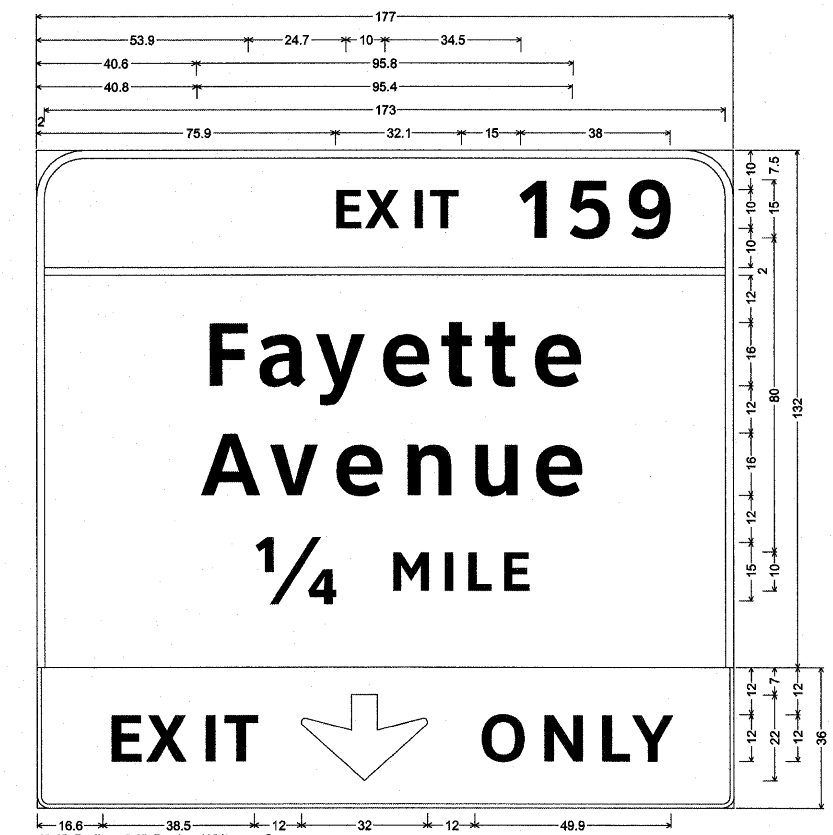
64.8	E 6.4	2.1	X 8.6	2.8	I 1.9	3.0	T 7.3	15.0	1 6.9	5.3	6 10.9	4.8	0 12.2	16.0

2.0	— 164.0	2.0

40.5	[32] 36.0	15.0	[33] 36.0	40.5

16.0	E 7.7	2.6	X 10.3	3.4	I 2.3	3.6	T 8.6	12.0	⬀ 23.6	12.0	O 11.1	4.3	N 9.9	4.8	L 7.1	2.2	Y 10.5	16.0

SN 7C025I057L159.9
STA 2178+90



12.0" Radius, 2.0" Border, White on Green;
[EXIT 159] ClearviewHwy-5-W; [Fayette] ClearviewHwy-5-W; [Avenue] ClearviewHwy-5-W;
[¼ MILE] ClearviewHwy-5-W;
3.0" Radius, 1.0" Border, Black on Yellow;
[EXIT] ClearviewHwy-5-W; Down Arrow 22.0" 270°; [ONLY] ClearviewHwy-5-W;
Table of widths and spaces.

75.9	E 6.4	2.1	X 8.7	2.7	I 2.0	3.0	T 7.2	15.0	1 6.8	5.2	5 10.4	4.7	9 10.9	16.0

2.0	— 173.0	2.0

40.8	F 9.8	4.1	a 12.0	3.0	y 12.5	3.6	e 11.8	3.8	t 7.8	3.2	t 7.9	4.1	e 11.8	40.8

40.6	A 15.0	2.5	v 12.2	3.6	e 11.8	5.4	n 11.1	6.1	u 10.9	5.5	e 11.7	40.6

53.9	¼ 24.7	10.0	M 9.2	3.9	I 2.0	4.0	L 5.9	3.2	E 6.3	53.9

16.6	E 7.7	2.5	X 10.4	3.3	I 2.3	3.6	T 8.7	12.0	⇩ 32.0	12.0	O 11.1	4.4	N 9.9	4.8	L 7.0	2.2	Y 10.5	16.0

NOT TO SCALE

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\Misc Revs 4-29-2011\sign paneldetails_Revs 4-29-2011.dgn	USER NAME = linda	DESIGNED - ESW	REVISED - 4-27-11
		DRAWN - LEC	REVISED -
	PLOT SCALE = 100.0000 '/ IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 4/21/2011	DATE - 6-15-09	REVISED -

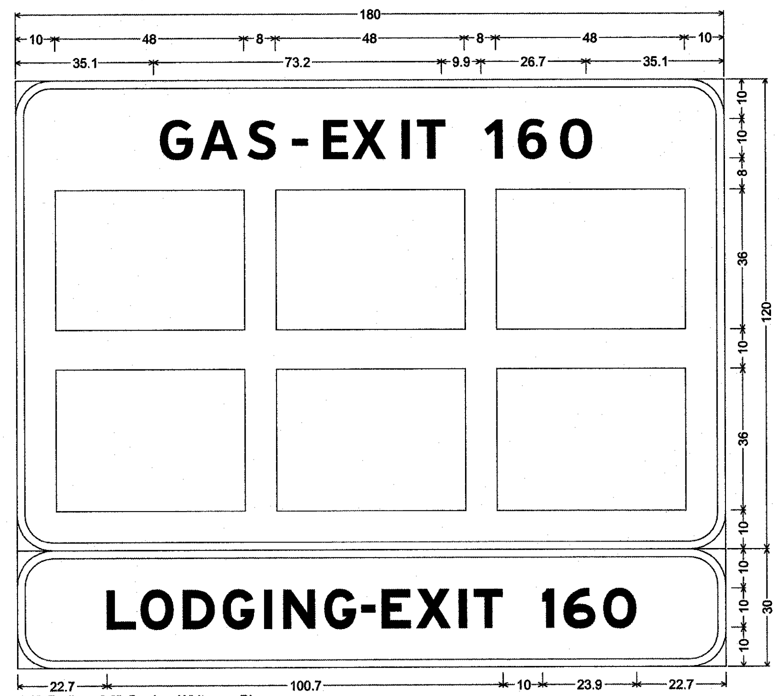
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS, FAI ROUTE 57/70

SCALE: 1"=50' | SHEET NO. 10 OF 49 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	252
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SN008
STA 2179+00



9.0" Radius, 2.0" Border, White on Blue;
[GAS-EXIT 160] ClearviewHwy-5-W; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
9.0" Radius, 2.0" Border, White on Blue;
[LODGING-EXIT 160] E Mod 2K;
Table of widths and spaces.

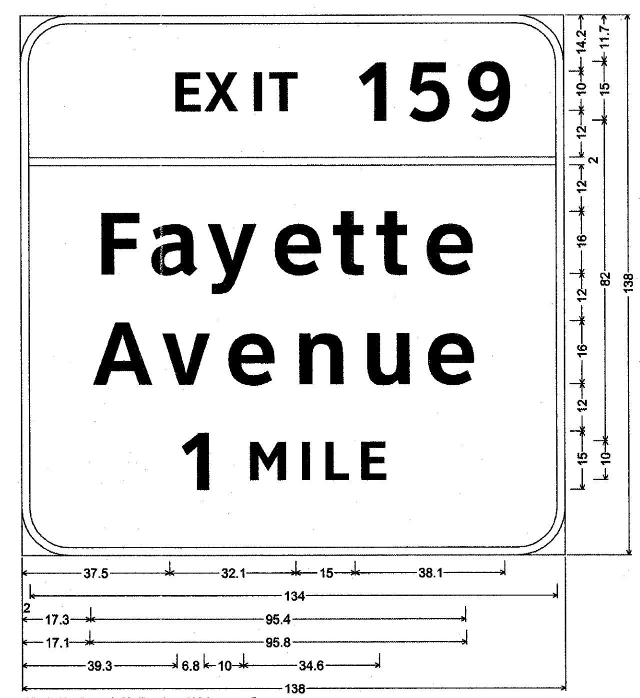
35.1	G 8.6	2.5	A 9.4	2.2	S 7.2	3.3	- 3.9	4.0	E 6.4	2.1	X 8.7	2.7	I 2.0	2.9	T 7.3	9.9	1 4.6	3.6	6 7.2	3.2	O 8.1	35.1

10.0	□ 48.0	8.0	□ 48.0	8.0	□ 48.0	10.0
10.0	□ 48.0	8.0	□ 48.0	8.0	□ 48.0	10.0

22.7	L 7.4	1.2	O 8.4	2.4	D 8.1	2.0	G 8.1	2.4	I 2.0	2.8	N 8.1	2.4	G 8.1	1.3	- 3.5	1.7	E 7.4	1.4	X 8.7	2.1	I 2.0	1.8	T 7.4

10.0	1 3.0	2.4	6 8.1	2.0	O 8.4	22.7

STRUCTURE NUMBER 7S025I057L160.7
STA 2219+50



12.0" Radius, 2.0" Border, White on Green;
[EXIT 159] ClearviewHwy-5-W; [Fayette] ClearviewHwy-5-W; [Avenue] ClearviewHwy-5-W; [1 MILE] ClearviewHwy-5-W;
Table of widths and spaces.

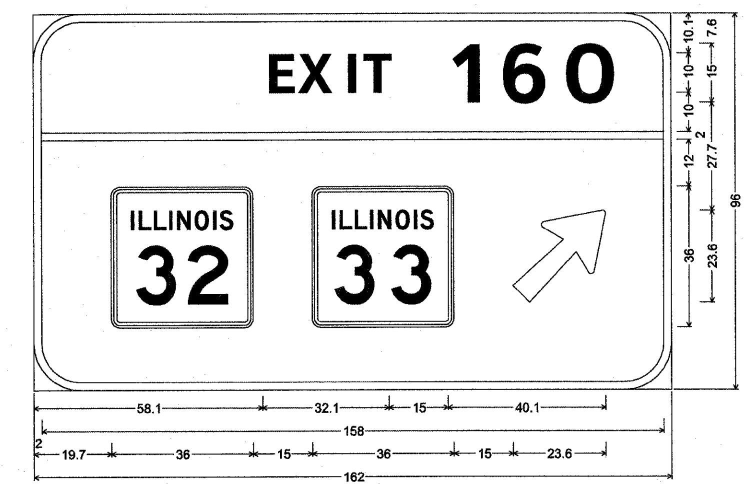
37.5	E 6.4	2.1	X 8.7	2.7	I 2.0	2.9	T 7.3	15.0	1 6.9	5.2	5 10.4	4.7	9 10.9	15.3

2.0	— 134.0	2.0

17.3	F 9.8	4.1	a 12.0	3.0	y 12.5	3.6	e 11.8	3.8	t 7.8	3.2	t 7.9	4.1	e 11.8	25.3

17.1	A 15.0	2.5	v 12.2	3.6	e 11.8	5.4	n 11.1	6.1	u 10.9	5.5	e 11.7	25.1

39.3	1 6.8	10.0	M 9.3	3.9	I 1.9	4.1	L 5.9	3.1	E 6.4	47.3



12.0" Radius, 2.0" Border, White on Green;
[EXIT 160] ClearviewHwy-5-W; Arrow 133 - 30.0" 45°;
Table of widths and spaces.

58.1	E 6.4	2.1	X 8.7	2.8	I 1.9	3.0	T 7.2	15.0	1 6.8	5.4	6 10.8	4.9	O 12.2	16.7

2.0	— 158.0	2.0

19.7	[32] 36.0	15.0	[33] 36.0	15.0	↗ 23.6	16.7

NOT TO SCALE

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\Misc Revs 4-29-2011\sign panel details_Revs 4-29-2011.dgn	USER NAME = linda	DESIGNED - ESW	REVISED - 4-27-11
	PLOT SCALE = 100.0000 '/ IN.	DRAWN - LEC	REVISED -
	PLOT DATE = 4/21/2011	CHECKED - BRM	REVISED -
		DATE - 6-15-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS, FAI ROUTE 57/70

SCALE: 1"=50' | SHEET NO. 11 OF 49 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	253
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SN006
SIGN ON 2 I BEAMS
STA 2226+90

12.0" Radius, 2.0" Border, White on Brown;
[Lake] ClearviewHwy-5-W; [Shelbyville] ClearviewHwy-5-W; [EXIT 160] ClearviewHwy-5-W;
[CONVENTION] ClearviewHwy-5-W; [CENTER] ClearviewHwy-5-W; [EXIT 160] ClearviewHwy-5-W;
Table of widths and spaces.

60.3	L 7.8	3.3	a 9.9	4.2	k 9.5	2.9	e 9.8	60.3

23.0	S 9.7	4.2	h 9.2	4.6	e 9.8	4.5	l 4.2	4.0	b 9.6	2.9	y 10.4	1.9	v 10.1	3.3	i 3.1	4.8	l 4.2	4.0	l 4.2	3.5	e 9.8	23.0

44.7	E 6.4	2.2	X 8.6	2.8	I 1.9	3.0	T 7.2	6.4	1 6.9	5.3	6 10.8	4.9	O 12.2	44.7

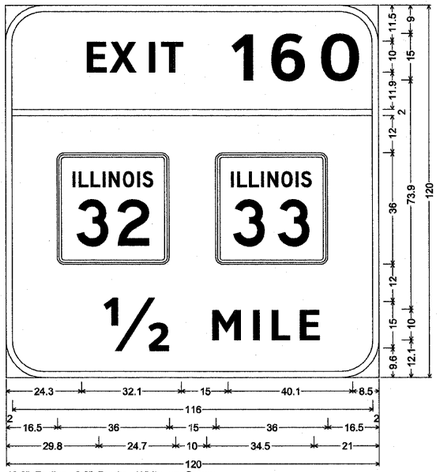
2.0	164.0	2.0	

14.6	C 10.9	3.6	Q 12.3	4.9	N 11.0	3.8	V 11.3	3.9	E 8.5	4.5	N 11.0	3.9	T 9.6	4.0	I 2.6	4.8	O 12.4	4.8	N 11.0	14.6						

44.2	C 10.8	4.3	E 8.5	4.4	N 11.0	3.9	T 9.7	4.0	E 8.5	4.5	R 10.0	44.2		

44.7	E 6.4	2.2	X 8.6	2.8	I 1.9	3.0	T 7.2	6.4	1 6.9	5.3	6 10.8	4.9	O 12.2	44.7

SN007
SIGN ON 2 I BEAMS
STA 2234+90



12.0" Radius, 2.0" Border, White on Green;
[EXIT 160] ClearviewHwy-5-W; [½ MILE] ClearviewHwy-5-W;
Table of widths and spaces.

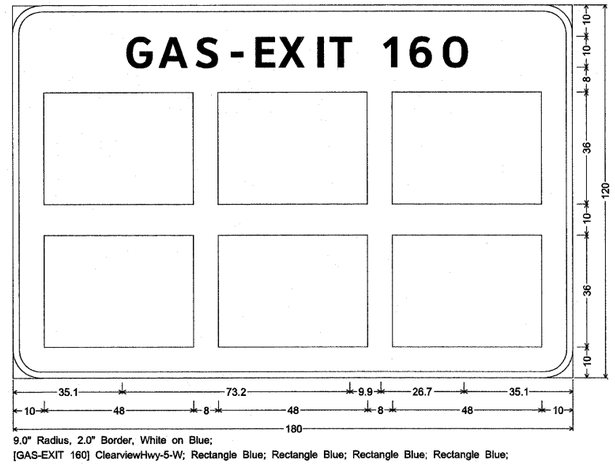
24.3	E 6.4	2.1	X 8.6	2.8	I 1.9	3.0	T 7.3	15.0	1 6.9	5.3	6 10.9	4.8	O 12.2	8.5

2.0	116.0	2.0	

16.5	[5] 36.0	15.0	[5] 36.0	16.5	

29.8	½ 24.7	10.0	M 9.2	3.9	I 2.0	4.0	L 5.9	3.2	E 6.3	21.0				

SN009
STA 2242+90



9.0" Radius, 2.0" Border, White on Blue;
[GAS-EXIT 160] ClearviewHwy-5-W; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
Rectangle Blue; Rectangle Blue;
Table of widths and spaces.

35.1	G 8.6	2.5	A 9.4	2.2	S 7.2	3.3	- 3.9	4.0	E 6.4	2.1	X 8.7	2.7	I 2.0	2.9	T 7.3	9.9	1 4.6	3.6	6 7.2	3.2	O 8.1	35.1

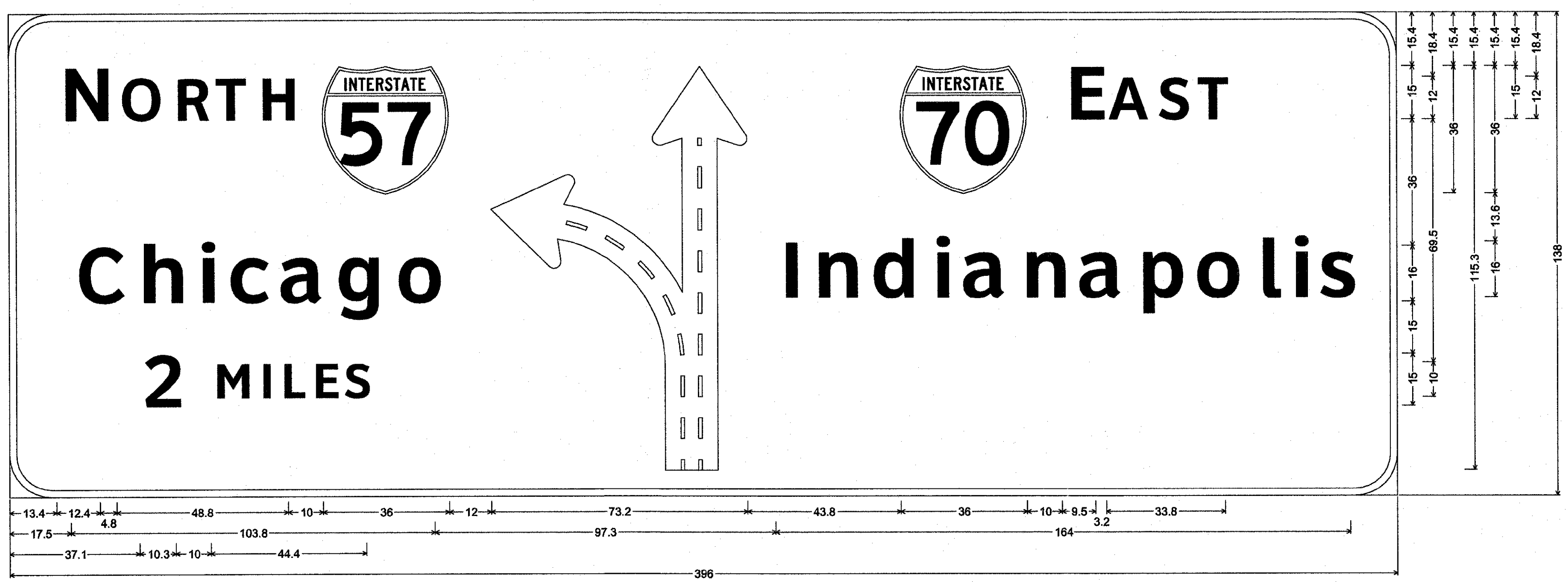
10.0	□ 48.0	8.0	□ 48.0	8.0	□ 48.0	10.0																				

10.0	□ 48.0	8.0	□ 48.0	8.0	□ 48.0	10.0																				

NOT TO SCALE

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\Misc Revs 4-29-20\sign panel details_Revs 4-29-20.dgn	USER NAME = linda	DESIGNED - ESW	REVISED - 4-27-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DETAILS, FAI ROUTE 57/70			F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000 ' / IN.	DRAWN - LEC	REVISED -		SCALE: 1"=50'	SHEET NO. 12 OF 49 SHEETS	STA. TO STA.	57/70	(25-3,4)R	EFFINGHAM	1098	254
	PLOT DATE = 4/21/2011	CHECKED - BRM	REVISED -							CONTRACT NO. 74299		
		DATE - 6-15-09	REVISED -					FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STRUCTURE NUMBER 7S025I057R161.3
STA 2249+25

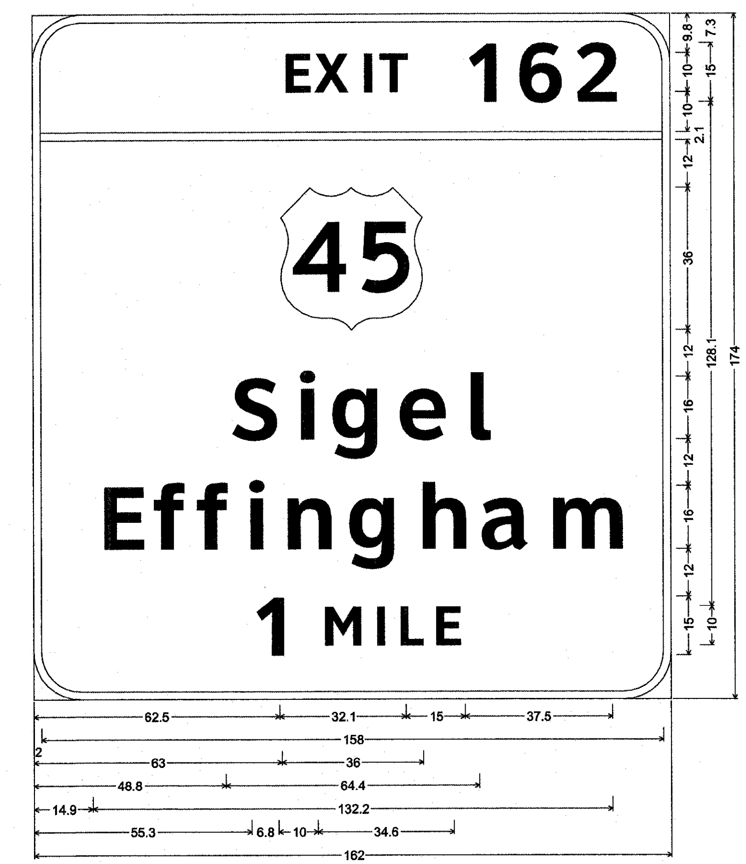


12.0" Radius, 2.0" Border, White on Green;
[N ORTH] ClearviewHwy-5-W; [Chicago] ClearviewHwy-5-W; [2 MILES] ClearviewHwy-5-W; Diagrammatic Arrow lane lines Black; [E AST] ClearviewHwy-5-W; [Indianapolis] ClearviewHwy-5-W;
Table of widths and spaces.

	N		O		R		T		H								E		A		S		T	
13.4	12.4	4.8	11.1	4.3	9.0	2.9	8.7	3.6	9.2	10.0	36.0	12.0	73.2	43.8	36.0	10.0	9.5	3.2	11.2	2.6	8.7	2.6	8.7	49.1

	C		h		i		c		a		g		o		I		n		d		i		a		n		a		p		o		l		i		s	
17.5	13.0	4.9	11.1	5.7	3.8	5.1	10.8	3.6	11.9	4.5	11.6	5.5	12.3	97.3	3.1	6.3	11.2	5.4	11.6	5.6	3.8	4.7	12.0	5.0	11.2	5.0	12.0	5.0	11.6	4.8	12.4	5.4	5.0	4.5	3.8	4.4	10.2	13.4

	2		M		I		L		E		S	
37.1	10.3	10.0	9.2	3.9	1.9	4.1	5.9	3.1	6.4	2.6	7.3	294.2



12.0" Radius, 2.0" Border, White on Green;
[EXIT 162] ClearviewHwy-5-W; [Sigel] ClearviewHwy-5-W; [Effingham] ClearviewHwy-5-W;
[1 MILE] ClearviewHwy-5-W;
Table of widths and spaces.

	E		X		I		T		1		6		2	
62.5	6.4	2.1	8.7	2.7	1.9	3.0	7.3	15.0	6.9	5.3	10.9	4.0	10.4	14.9

2.0	158.0	2.0

63.0	36.0	63.0

	S		i		g		e		l	
48.8	11.5	4.7	3.8	5.1	11.7	5.4	11.7	5.5	5.0	48.8

	E		f		f		i		n		g		h		a		m	
14.9	10.2	3.9	7.8	3.3	7.7	4.3	3.8	5.7	11.1	5.4	11.7	6.0	11.1	5.1	11.9	5.1	18.1	14.9

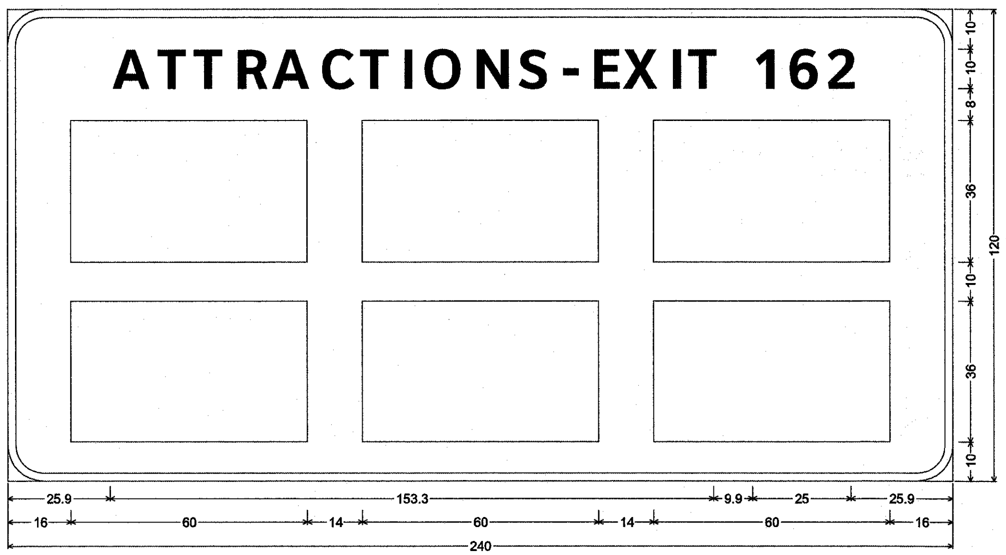
	1		M		I		L		E	
55.3	6.8	10.0	9.3	3.9	1.9	4.1	5.9	3.1	6.4	55.3

NOT TO SCALE

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\Misc Revs 4-29-2011\sign panel details_Revs 4-29-2011.dgn	USER NAME = linda	DESIGNED - ESW	REVISED - 4-27-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DETAILS, FAI ROUTE 57/70
	PLOT SCALE = 100.0000 ' / IN.	DRAWN - LEC	REVISED -		SCALE: 1"=50'
	PLOT DATE = 4/21/2011	CHECKED - BRM	REVISED -		SHEET NO. 13 OF 49 SHEETS
		DATE - 6-15-09	REVISED -		STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	255
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SN010
STA 2243+05



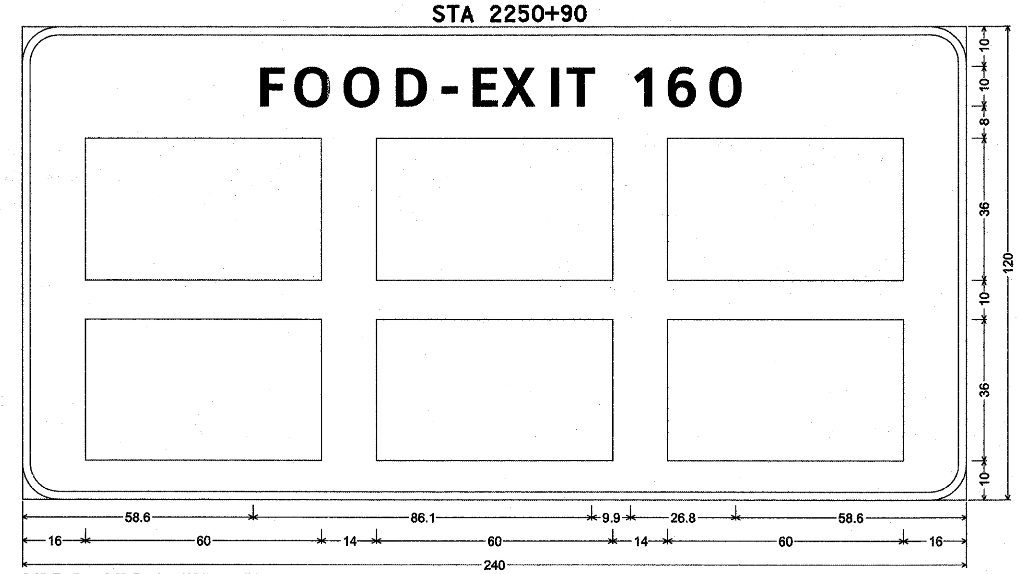
9.0" Radius, 2.0" Border, White on Blue;
[ATTRACTIONS-EXIT 162] ClearviewHwy-5-W; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
Table of widths and spaces.

25.9	A 9.4	1.8	T 7.3	2.0	T 7.2	3.0	R 7.5	2.4	A 9.3	2.5	C 8.2	2.1	T 7.2	3.0	I 1.9	3.6	O 9.3	3.6	N 8.3	3.2	S 7.2	3.3	- 3.9	4.0	E 6.4	2.1	X 8.7	2.7	I 2.0	2.9	T 7.3

9.9	1 4.6	3.6	6 7.2	2.7	2 6.9	25.9

16.0	▭ 60.0	14.0	▭ 60.0	14.0	▭ 60.0	16.0
16.0	▭ 60.0	14.0	▭ 60.0	14.0	▭ 60.0	16.0

SN011
STA 2250+90

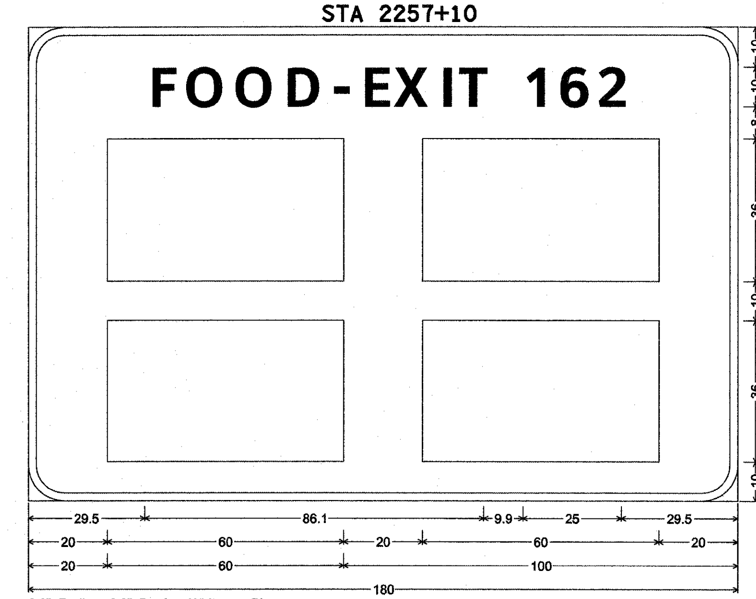


9.0" Radius, 2.0" Border, White on Blue;
[FOOD-EXIT 160] ClearviewHwy-5-W; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
Table of widths and spaces.

58.6	F 6.1	2.9	O 9.3	3.2	O 9.3	3.6	D 8.1	3.6	- 3.9	4.0	E 6.4	2.1	X 8.7	2.7	I 2.0	3.0	T 7.2	9.9	1 4.6	3.6	6 7.2	3.2	0 8.2	58.6

16.0	▭ 60.0	14.0	▭ 60.0	14.0	▭ 60.0	16.0
16.0	▭ 60.0	14.0	▭ 60.0	14.0	▭ 60.0	16.0

SN012
STA 2257+10

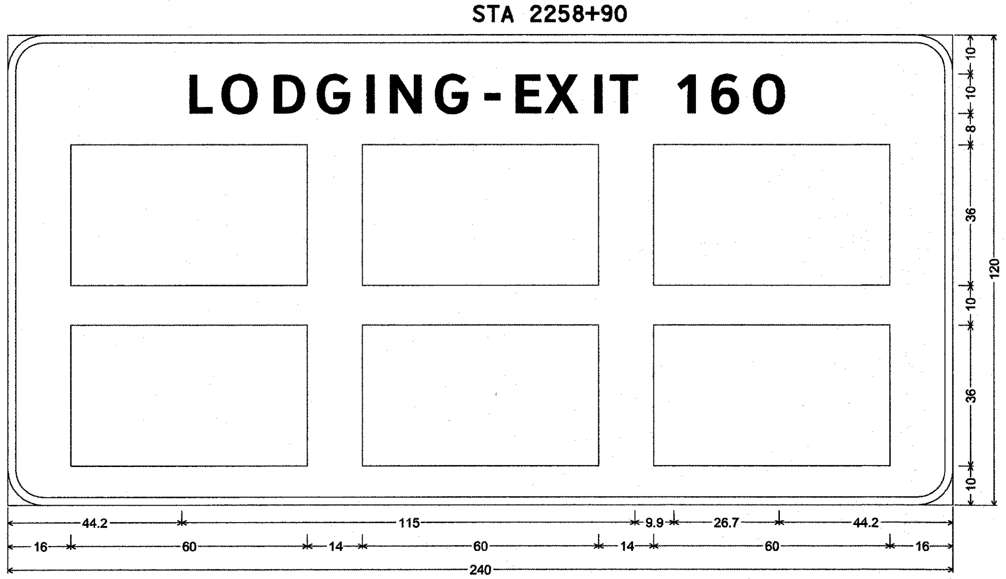


9.0" Radius, 2.0" Border, White on Blue;
[FOOD-EXIT 162] ClearviewHwy-5-W; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
Table of widths and spaces.

29.5	F 6.1	2.9	O 9.3	3.2	O 9.3	3.6	D 8.0	3.7	- 3.9	4.0	E 6.4	2.1	X 8.6	2.8	I 1.9	3.0	T 7.3	9.9	1 4.6	3.5	6 7.3	2.7	2 6.9	29.5

20.0	▭ 60.0	20.0	▭ 60.0	20.0
20.0	▭ 60.0	20.0	▭ 60.0	20.0

SN013
STA 2258+90

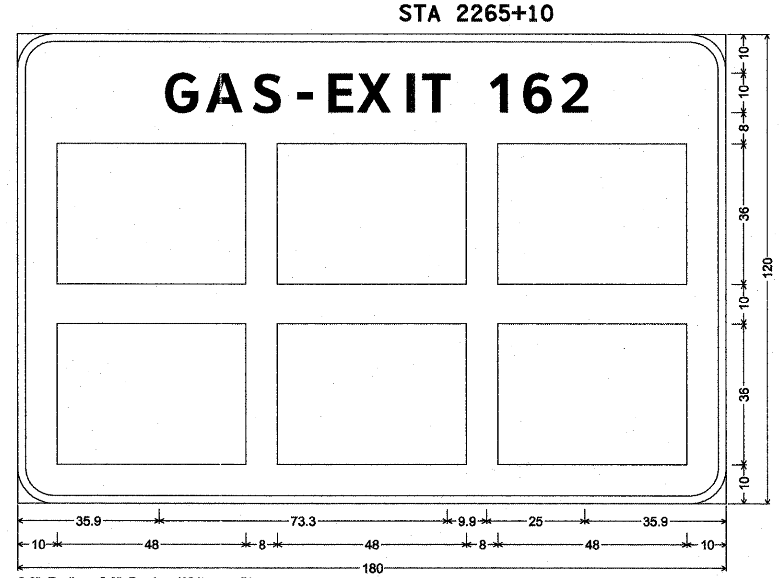


9.0" Radius, 2.0" Border, White on Blue;
[LODGING-EXIT 160] ClearviewHwy-5-W; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
Table of widths and spaces.

44.2	L 5.8	2.7	O 9.3	3.6	D 8.1	3.2	G 8.6	3.6	I 1.9	4.1	N 8.2	3.6	G 8.6	3.7	- 3.9	4.0	E 6.4	2.1	X 8.7	2.7	I 2.0	2.9	T 7.3	9.9	1 4.6	3.6	6 7.2	3.2	0 8.1	44.2

16.0	▭ 60.0	14.0	▭ 60.0	14.0	▭ 60.0	16.0
16.0	▭ 60.0	14.0	▭ 60.0	14.0	▭ 60.0	16.0

SN014
STA 2265+10

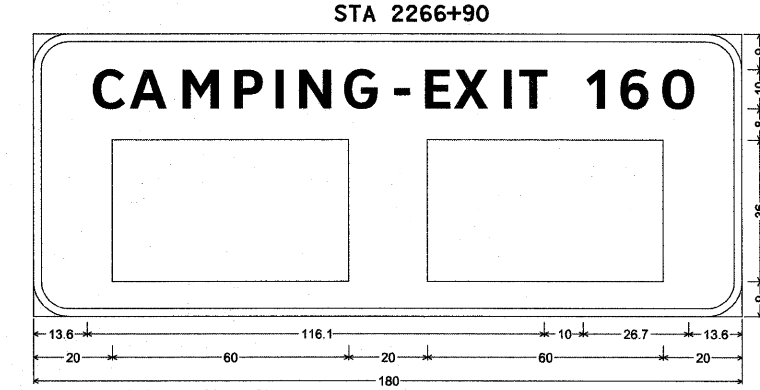


9.0" Radius, 2.0" Border, White on Blue;
[GAS-EXIT 162] ClearviewHwy-5-W; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
Rectangle Blue; Rectangle Blue;
Table of widths and spaces.

35.9	G 8.7	2.5	A 9.4	2.1	S 7.3	3.3	- 3.9	4.0	E 6.3	2.2	X 8.6	2.8	I 1.9	3.0	T 7.3	9.9	1 4.6	3.5	6 7.3	2.7	2 6.9	35.9

10.0	▭ 48.0	8.0	▭ 48.0	8.0	▭ 48.0	10.0
10.0	▭ 48.0	8.0	▭ 48.0	8.0	▭ 48.0	10.0

SN015
STA 2266+90



9.0" Radius, 2.0" Border, White on Blue;
[CAMPING-EXIT 160] ClearviewHwy-5-W; Rectangle Blue; Rectangle Blue;
Table of widths and spaces.

13.6	C 8.2	2.0	A 9.4	2.8	M 9.3	3.9	P 7.2	3.3	I 1.9	4.0	N 8.2	3.6	G 8.6	3.7	- 3.9	4.0	E 6.4	2.2	X 8.6	2.8	I 1.9	3.0	T 7.2						

10.0	1 4.5	3.6	6 7.2	3.2	0 8.2	13.6

20.0	▭ 60.0	20.0	▭ 60.0	20.0

NOT TO SCALE

FILE NAME =	USER NAME = linda	DESIGNED - ESW	REVISED - 4-27-11
S:\Projects\403-00072_57-70\dgn\ML_Keller\Misc Revs 4-29-2011\sign paneldetails_Revs 4-29-2011.dgn		DRAWN - LEC	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 4/21/2011	DATE - 6-15-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

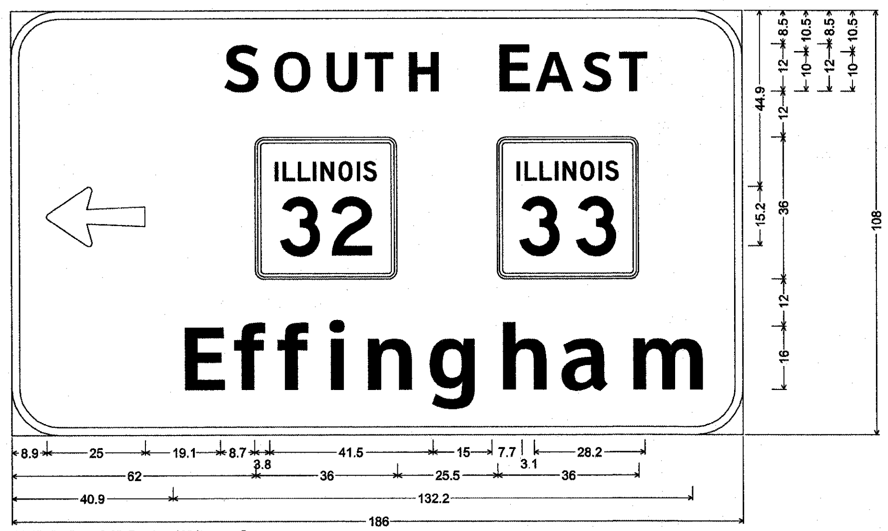
SIGN PANEL DETAILS, FAI ROUTE 57/70

SCALE: 1"=50' | SHEET NO. 14 OF 49 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	256
		CONTRACT NO. 74299		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

STRUCTURE NUMBER 7S025I057L160.4
KELLER RAMP A
STA 26+98

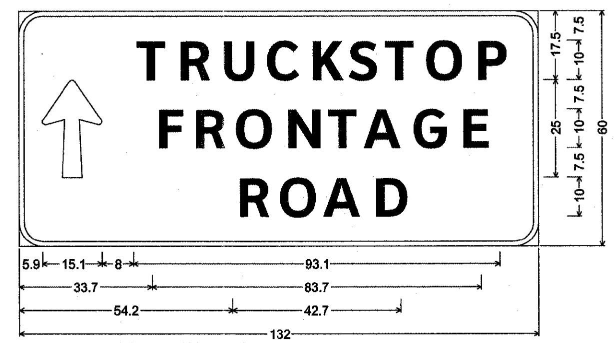


12.0" Radius, 2.0" Border, White on Green;
Arrow 80 - 25.0" 180°; [S OUTH] ClearviewHwy-5-W; [E AST] ClearviewHwy-5-W; [Effingham] ClearviewHwy-5-W;
Table of widths and spaces.

	⇦		S		O		U		T		H		E		A		S		T	
8.9	25.0	19.1	8.7	3.8	9.3	3.6	7.7	3.0	7.3	2.9	7.7	15.0	7.7	3.1	9.4	2.1	7.3	2.2	7.2	25.0

	32		33	
62.0	36.0	25.5	36.0	26.5

	E		f		f		i		n		g		h		a		m	
40.9	10.2	3.9	7.8	3.3	7.7	4.3	3.8	5.7	11.1	5.4	11.7	6.0	11.1	5.1	11.9	5.1	18.1	12.9



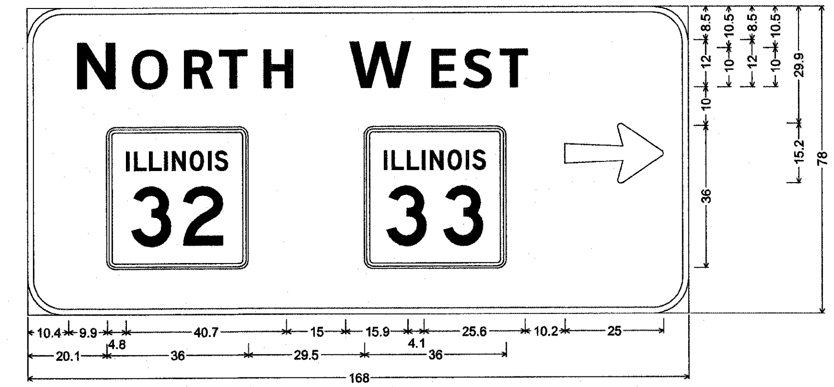
6.0" Radius, 1.3" Border, White on Green;
Arrow 80 - 25.0" 90°; [TRUCKSTOP] ClearviewHwy-5-W;
[FRONTAGE] ClearviewHwy-5-W; [ROAD] ClearviewHwy-5-W;
Table of widths and spaces.

	⇧
5.9	15.1

	T		R		U		C		K		S		T		O		P	
8.0	7.2	3.0	7.5	3.5	7.7	3.7	8.1	3.2	7.7	2.1	7.3	2.2	7.2	2.6	9.3	3.6	7.2	9.9

	F		R		O		N		T		A		G		E	
33.7	6.1	3.3	7.5	3.0	9.3	3.6	8.3	2.9	7.2	2.0	9.3	2.5	8.7	3.6	6.4	14.6

	R		O		A		D	
54.2	7.5	3.1	9.2	2.6	9.4	2.8	8.1	35.1

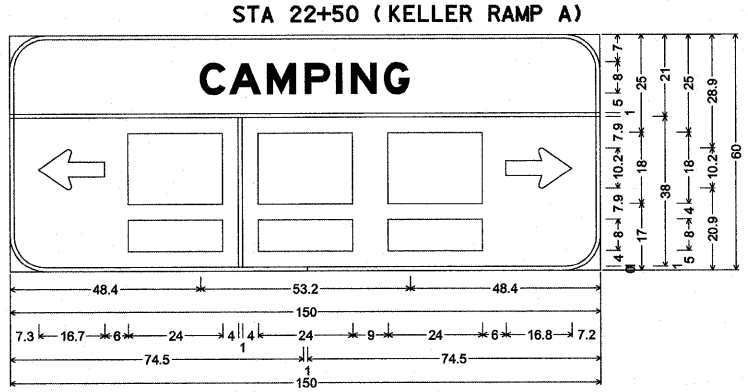


9.0" Radius, 1.5" Border, White on Green;
[N ORTH] ClearviewHwy-5-W; [W EST] ClearviewHwy-5-W; Arrow 80 - 25.0" 0°;
Table of widths and spaces.

	N		O		R		T		H		W		E		S		T		⇨	
10.4	9.9	4.8	9.2	3.6	7.6	2.4	7.2	3.0	7.7	15.0	15.9	4.1	6.4	2.6	7.2	2.2	7.2	10.2	25.0	6.4

	32		33	
20.1	36.0	29.5	36.0	46.4

SN016
STA 22+50 (KELLER RAMP A)



9.0" Radius, 1.0" Border, White on Blue;
[CAMPING] E Mod 2K; Standard Arrow Custom 16.8" X 10.1" 180°; Rectangle Blue;
Rectangle Blue; Rectangle Blue; Rectangle Blue; Standard Arrow Custom 16.8" X 10.1" 0°;
Rectangle Blue; Rectangle Blue;
Table of widths and spaces.

	C		A		M		P		I		N		G	
48.4	6.4	1.0	8.1	1.4	7.5	2.2	6.5	1.4	1.6	2.3	6.4	2.0	6.4	48.4

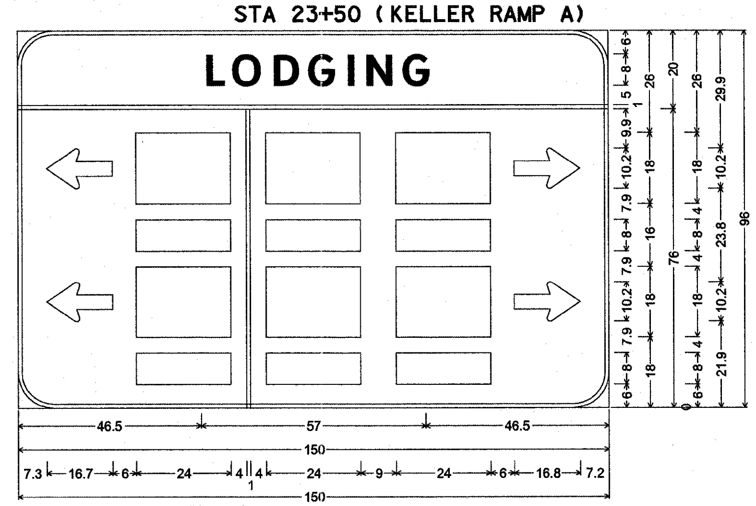
	—	
-0.0	150.0	0.0

	⇦		□					□		□		⇨	
7.3	16.7	6.0	24.0	4.0	1.0	4.0	24.0	9.0	24.0	6.0	16.8	7.2

	▭		▭		▭	
30.0	24.0	9.0	24.0	9.0	24.0	30.0

	□	
74.5	1.0	74.5

SN017
STA 23+50 (KELLER RAMP A)



9.0" Radius, 1.0" Border, White on Blue;
[LODGING] ClearviewHwy-5-W; Standard Arrow Custom 16.8" X 10.1" 180°;
Rectangle Blue; Rectangle Blue; Standard Arrow Custom 16.8" X 10.1" 180°;
Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
Standard Arrow Custom 16.8" X 10.1" 0°; Rectangle Blue; Rectangle Blue; Rectangle Blue;
Rectangle Blue; Standard Arrow Custom 16.8" X 10.1" 0°; Rectangle Blue; Rectangle Blue;
Table of widths and spaces.

	L		O		D		G		I		N		G	
46.5	4.7	2.1	7.4	2.9	6.5	2.5	6.9	2.9	1.6	3.2	6.6	2.8	6.9	46.5

	—	
-0.0	150.0	0.0

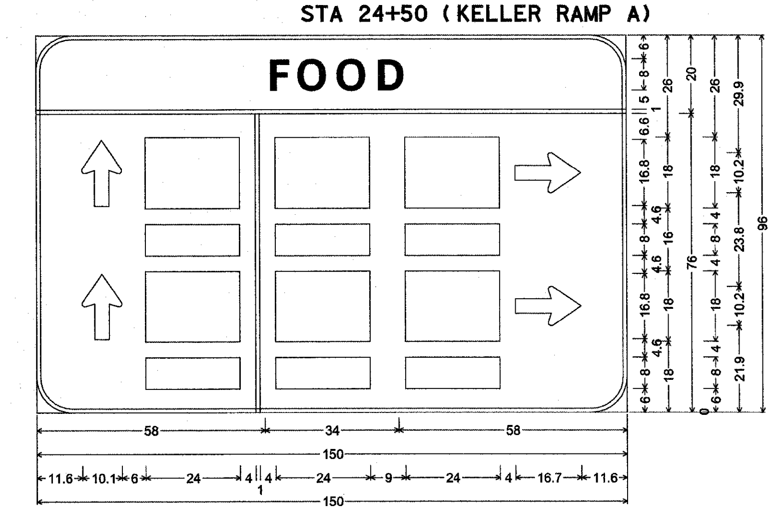
	⇦		□					□		□		⇨	
7.3	16.7	6.0	24.0	4.0	1.0	4.0	24.0	9.0	24.0	6.0	16.8	7.2

	▭		▭		▭	
30.0	24.0	9.0	24.0	9.0	24.0	30.0

	⇦		□		□		□		⇨	
7.3	16.7	6.0	24.0	9.0	24.0	9.0	24.0	6.0	16.8	7.2

	▭		▭		▭	
30.0	24.0	9.0	24.0	9.0	24.0	30.0

SN018
STA 24+50 (KELLER RAMP A)



9.0" Radius, 1.0" Border, White on Blue;
[FOOD] ClearviewHwy-5-W; Standard Arrow Custom 16.8" X 10.1" 90°; Rectangle Blue;
Rectangle Blue; Standard Arrow Custom 16.8" X 10.1" 90°; Rectangle Blue;
Rectangle Blue; Rectangle Blue; Rectangle Blue; Standard Arrow Custom 16.8" X 10.1" 0°;
Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
Standard Arrow Custom 16.8" X 10.1" 0°; Rectangle Blue; Rectangle Blue;
Table of widths and spaces.

	F		O		O		D	
58.0	4.9	2.3	7.4	2.6	7.4	2.9	6.5	58.0

	—	
-0.0	150.0	0.0

	⇧		□					□		□		⇨	
11.6	10.1	6.0	24.0	4.0	1.0	4.0	24.0	9.0	24.0	4.0	16.7	11.6

	▭		▭		▭	
27.7	24.0	9.0	24.0	9.0	24.0	32.3

	⇧		□		□		□		⇨	
11.6	10.1	6.0	24.0	9.0	24.0	9.0	24.0	4.0	16.7	11.6

	▭		▭		▭	
27.7	24.0	9.0	24.0	9.0	24.0	32.3

NOT TO SCALE

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\Misc Revs 4-29-2011\sign paneldetails_Revs 4-29-2011.dgn
USER NAME = linda
PLOT SCALE = 100.0000 ' / IN.
PLOT DATE = 4/21/2011

DESIGNED - ESW
DRAWN - LEC
CHECKED - BRM
DATE - 6-15-09

REVISED - 4-27-11
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS, FAI ROUTE 57/70

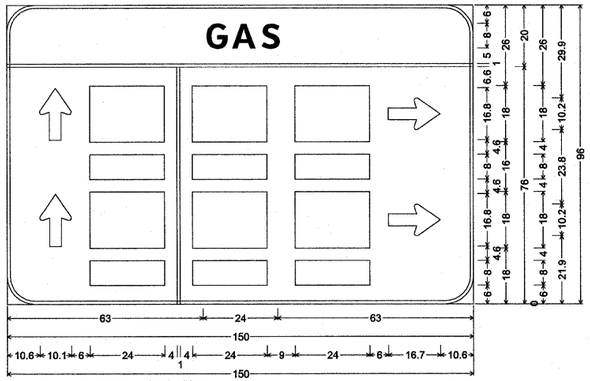
SCALE: 1"=50' | SHEET NO. 15 OF 49 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	257

CONTRACT NO. 74299

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

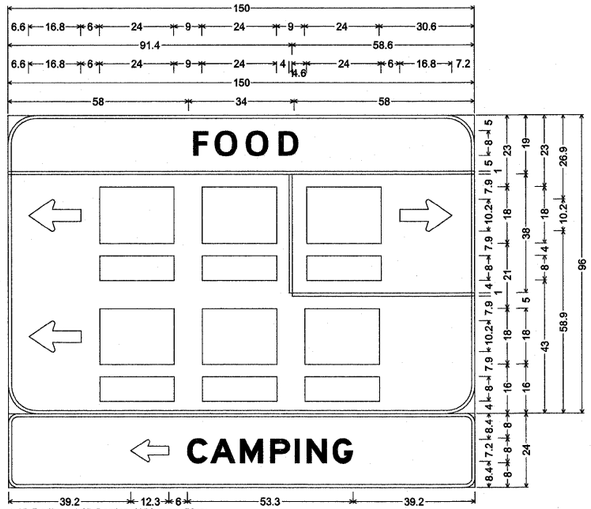
SN019
STA 25+50 (KELLER RAMP A)



9.0" Radius, 1.0" Border, White on Blue;
[GAS] ClearviewHwy-5-W; Standard Arrow Custom 16.8" X 10.1" 90°; Rectangle Blue;
Rectangle Blue; Standard Arrow Custom 16.8" X 10.1" 90°; Rectangle Blue;
Rectangle Blue; Rectangle Blue; Rectangle Blue; Standard Arrow Custom 16.8" X 10.1" 0°;
Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
Standard Arrow Custom 16.8" X 10.1" 0°; Rectangle Blue; Rectangle Blue;
Table of widths and spaces.

63.0	G 6.9	2.1	A 7.5	1.7	S 5.8	63.0
-0.0	150.0	0.0				
10.6	10.1	6.0	24.0	4.0	1.0	4.0
24.0	9.0	24.0	6.0	16.7	10.6	
26.7	24.0	9.0	24.0	9.0	24.0	33.3
10.6	10.1	6.0	24.0	9.0	24.0	9.0
24.0	6.0	16.7	10.6			
26.7	24.0	9.0	24.0	9.0	24.0	33.3

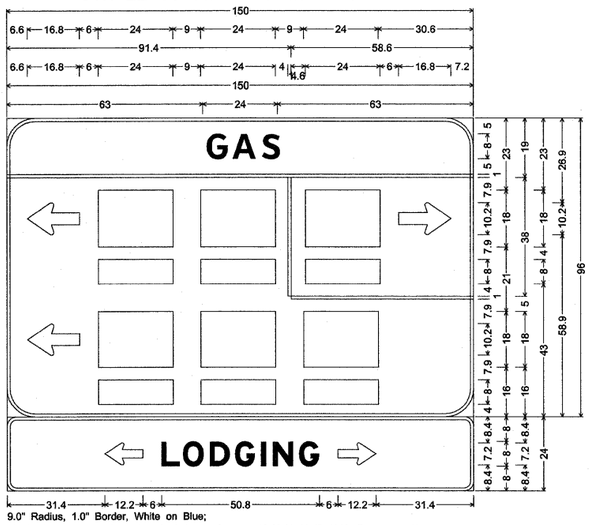
SN021
STA 21+30 (KELLER RAMP C)



9.0" Radius, 1.0" Border, White on Blue;
[FOOD] ClearviewHwy-5-W; Standard Arrow Custom 16.8" X 10.1" 180°; Rectangle Blue;
Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
Standard Arrow Custom 16.8" X 10.1" 0°; Rectangle Blue;
Standard Arrow Custom 16.8" X 10.1" 180°; Rectangle Blue; Rectangle Blue;
Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
3.0" Radius, 1.0" Border, White on Blue;
Standard Arrow Custom 12.3" X 7.1" 180°; [CAMPING] E Mod 2K;
Table of widths and spaces.

58.0	F 4.9	2.3	O 7.4	2.6	O 7.4	2.9	D 6.5	58.0	
-0.0	150.0	0.0							
6.6	16.8	6.0	24.0	9.0	24.0	4.0	1.0	4.6	24.0
6.0	16.8	7.2							
29.4	24.0	9.0	24.0	9.6	24.0	30.0			
91.4	58.6	0.0							
6.6	16.8	6.0	24.0	9.0	24.0	9.0	24.0	30.6	
29.4	24.0	9.0	24.0	9.0	24.0	30.6			
39.2	12.3	6.0	C 6.5	0.9	A 8.1	1.4	M 7.5	2.2	P 6.5
1.4	I 1.6	2.3	N 6.5	1.9	G 6.5	39.2			

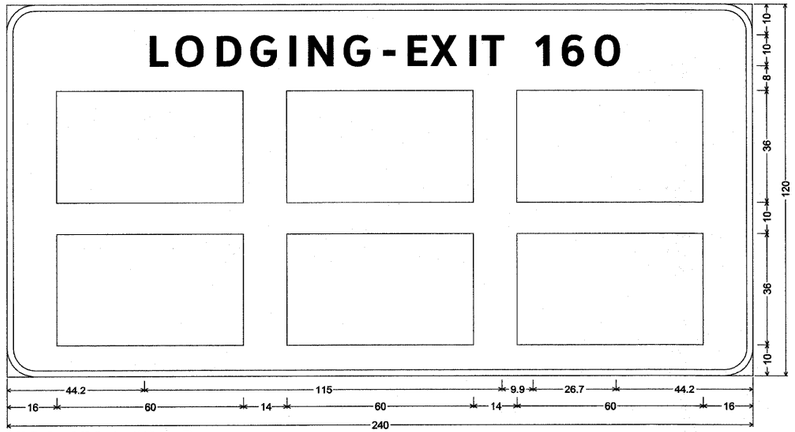
SN022
STA 22+30 (KELLER RAMP C)



9.0" Radius, 1.0" Border, White on Blue;
[GAS] ClearviewHwy-5-W; Standard Arrow Custom 16.8" X 10.1" 180°; Rectangle Blue;
Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
Standard Arrow Custom 16.8" X 10.1" 0°; Rectangle Blue;
Standard Arrow Custom 16.8" X 10.1" 180°; Rectangle Blue; Rectangle Blue;
Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
3.0" Radius, 1.0" Border, White on Blue;
Standard Arrow Custom 12.3" X 7.1" 180°; [LODGING] E Mod 2K;
Standard Arrow Custom 12.3" X 7.1" 0°;
Table of widths and spaces.

63.0	G 6.9	2.1	A 7.5	1.7	S 5.8	63.0			
-0.0	150.0	0.0							
6.6	16.8	6.0	24.0	9.0	24.0	4.0	1.0	4.6	24.0
6.0	16.8	7.2							
29.4	24.0	9.0	24.0	9.6	24.0	30.0			
91.4	58.6	0.0							
6.6	16.8	6.0	24.0	9.0	24.0	9.0	24.0	30.6	
29.4	24.0	9.0	24.0	9.0	24.0	30.6			
31.4	12.2	6.0	L 6.0	0.9	O 6.7	2.0	D 6.4	1.6	G 6.5
1.9	I 1.6	2.3	N 6.5	1.9	G 6.5	6.0	12.2	31.4	

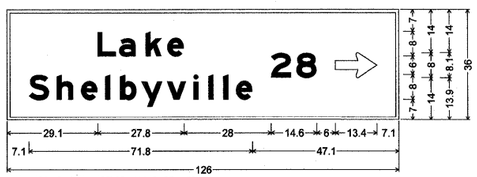
SN023
STA 2092+70



9.0" Radius, 2.0" Border, White on Blue;
[LODGING-EXIT 160] ClearviewHwy-5-W; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
Table of widths and spaces.

44.2	L 5.8	2.7	O 9.3	3.6	D 8.1	3.2	G 8.6	3.6	I 1.9
4.1	N 8.2	3.6	G 8.6	3.7	- 3.9	4.0	E 6.4	2.1	X 8.7
2.7	I 2.0	2.9	T 7.3	9.9	1 4.6	3.6	6 7.2	3.2	O 8.1
44.2									
16.0	60.0	14.0	60.0	14.0	60.0	16.0			
16.0	60.0	14.0	60.0	14.0	60.0	16.0			

SN020
STA 28+50 (KELLER RAMP A)



9.0" Radius, 1.0" Border, White on Brown;
[Lake] E Mod 2K; [Shelbyville] E Mod 2K; [28] E Mod 2K;
Standard Arrow Custom 13.4" X 8.1" 0°;

NOT TO SCALE

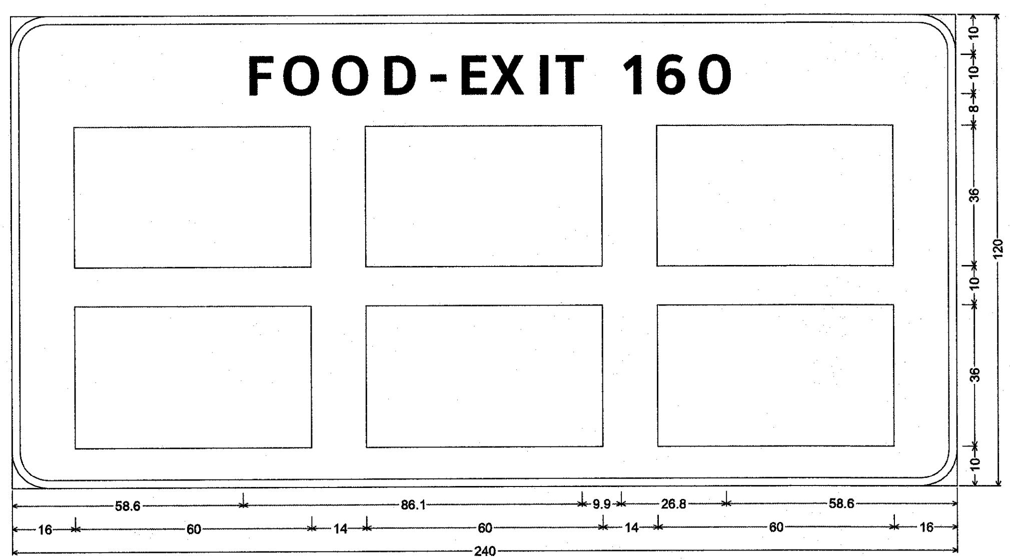
FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\Misc Revs 4-29-2011\sign panel details_Revs 4-29-2011.dgn	USER NAME = paul	DESIGNED - ESW	REVISED - 4-27-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	PLOT SCALE = 100.0000 ' / IN.	DRAWN - LEC	REVISED -	
	PLOT DATE = 4/28/2011	CHECKED - BRM	REVISED -	
		DATE - 6-15-09	REVISED -	

SIGN PANEL DETAILS, FAI ROUTE 57/70

SCALE: 1"=50' | SHEET NO. 16 OF 49 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	258
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SN024
STA 2098+78



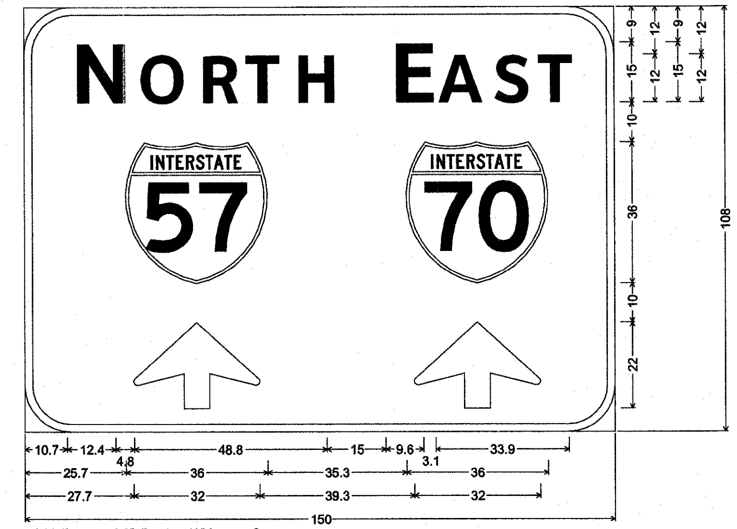
9.0" Radius, 2.0" Border, White on Blue;
[FOOD-EXIT 160] ClearviewHwy-5-W; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
Table of widths and spaces.

	F		O		O		D		-		E		X		I		T		1		6		O	
58.6	6.1	2.9	9.3	3.2	9.3	3.6	8.1	3.6	3.9	4.0	6.4	2.1	8.7	2.7	2.0	3.0	7.2	9.9	4.6	3.6	7.2	3.2	8.2	58.6

	▭		▭		▭	
16.0	60.0	14.0	60.0	14.0	60.0	16.0

	▭		▭		▭	
16.0	60.0	14.0	60.0	14.0	60.0	16.0

MAINTENANCE OF TRAFFIC SIGN PANEL - PRE-STAGE 2A & 2B (TEMP)
STA. 2086+44

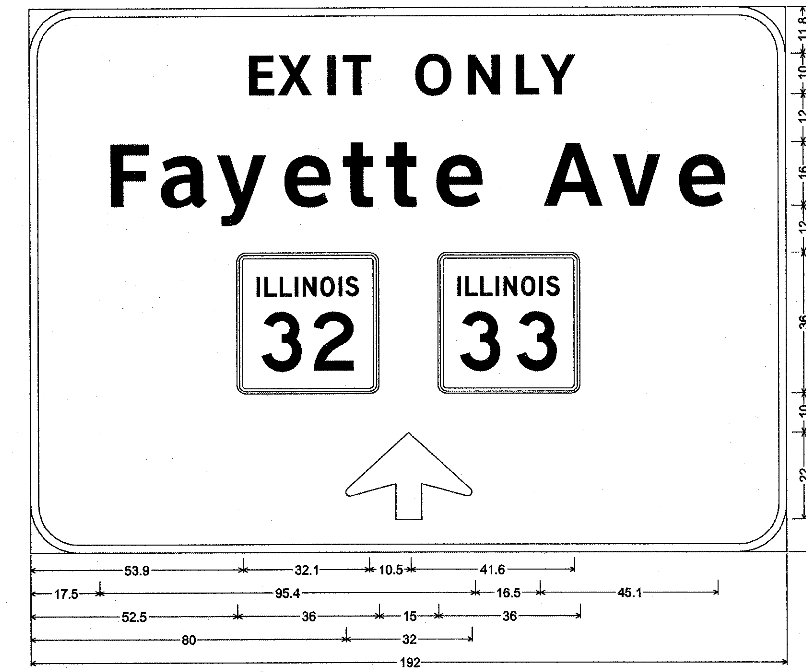


12.0" Radius, 2.0" Border, White on Orange;
[N ORTH] ClearviewHwy-5-W; [E AST] ClearviewHwy-5-W; Down Arrow 22.0" 90°;
Down Arrow 22.0" 90°;
Table of widths and spaces.

	N		O		R		T		H		E		A		S		T	
10.7	12.4	4.8	11.1	4.3	9.0	2.9	8.7	3.6	9.2	15.0	9.6	3.1	11.3	2.6	8.6	2.7	8.7	11.7

	57		70	
25.7	36.0	35.3	36.0	17.0

	⇧		⇧	
27.7	32.0	39.3	32.0	19.0



12.0" Radius, 2.0" Border, White on Orange;
[EXIT ONLY] ClearviewHwy-5-W; [Fayette Ave] ClearviewHwy-5-W; Down Arrow 22.0" 90°;
Table of widths and spaces.

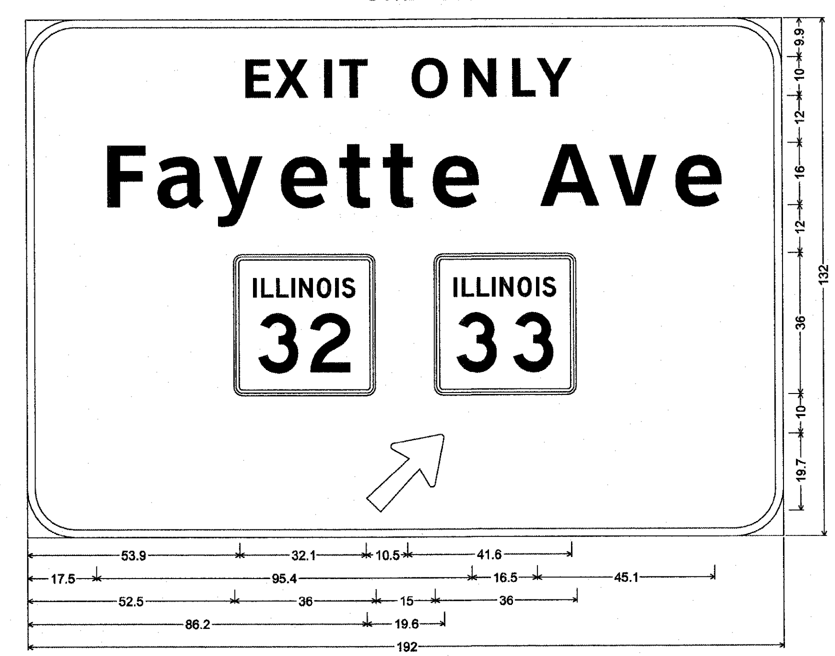
	E		X		I		T		O		N		L		Y	
53.9	6.4	2.1	8.7	2.7	1.9	3.0	7.3	10.5	9.3	3.6	8.3	4.0	5.9	1.8	8.7	53.9

	F		a		y		e		t		t		e		A		v		e	
17.5	9.8	4.1	11.9	3.1	12.5	3.6	11.8	3.8	7.8	3.2	7.8	4.2	11.8	16.5	15.0	2.5	12.2	3.7	11.7	17.5

	32		33	
52.5	36.0	15.0	36.0	52.5

	⇧	
80.0	32.0	80.0

MAINTENANCE OF TRAFFIC SIGN PANEL - PRE-STAGE 2A & 2B (TEMP)
STA. 2106+44



12.0" Radius, 2.0" Border, White on Orange;
[EXIT ONLY] ClearviewHwy-5-W; [Fayette Ave] ClearviewHwy-5-W; Arrow 80 - 25.0" 45°;
Table of widths and spaces.

	E		X		I		T		O		N		L		Y	
53.9	6.4	2.1	8.7	2.7	1.9	3.0	7.3	10.5	9.3	3.6	8.3	4.0	5.9	1.8	8.7	53.9

	F		a		y		e		t		t		e		A		v		e	
17.5	9.8	4.1	11.9	3.1	12.5	3.6	11.8	3.8	7.8	3.2	7.8	4.2	11.8	16.5	15.0	2.5	12.2	3.7	11.7	17.5

	32		33	
52.5	36.0	15.0	36.0	52.5

	⇗	
86.2	19.6	86.2

* SIGNS ON THIS SHEET TO BE USED FOR MAINTAINENCE OF TRAFFIC

NOT TO SCALE

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\Misc Revs 4-29-2011\sign paneldetails_Revs 4-29-2011.dgn	USER NAME = linda	DESIGNED - ESW	REVISED - 4-27-11
		DRAWN - LEC	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 4/21/2011	DATE - 6-15-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS, PRE-STAGE 2A, FAI ROUTE 57/70

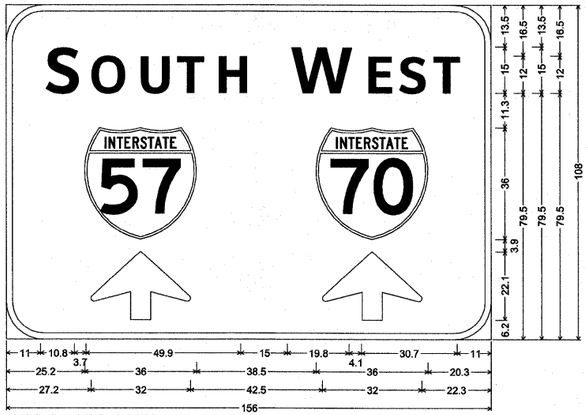
SCALE: 1"=50' | SHEET NO. 17 OF 49 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	259

CONTRACT NO. 74299

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

MAINTENANCE OF TRAFFIC SIGN PANEL - PRE-STAGE 2A & 2B (TEMP)
STA. 2286+00 (PRE-STAGE 2A)
STA. 2281+00 (PRE-STAGE 2B)



12.0" Radius, 2.0" Border, White on Orange;
[S OUTH] ClearviewHwy-5-W; [W EST] ClearviewHwy-5-W; Down Arrow 22.0" 90°;
Down Arrow 22.0" 90°;
Table of widths and spaces.

11.0	S 10.8	3.7	O 11.2	4.3	U 9.3	3.6	T 8.7	3.6	H 9.2	15.0	W 19.8	4.1	E 7.6	3.1	S 8.7	2.7	T 8.6	11.0
25.2	36.0	38.5	36.0	20.3														
27.2	32.0	42.5	32.0	22.3														

12.0" Radius, 2.0" Border, White on Orange;
[EXIT ONLY] ClearviewHwy-5-W; [Fayette Ave] ClearviewHwy-5-W; Arrow 80 - 25.0" 45°;
Table of widths and spaces.

53.9	E 6.4	2.1	X 8.7	2.7	I 1.9	3.0	T 7.3	10.5	O 9.3	3.6	N 8.3	4.0	L 5.9	1.8	Y 8.7	53.9						
17.5	F 9.8	4.1	a 11.9	3.1	y 12.5	3.6	e 11.8	3.8	t 7.8	3.2	t 7.8	4.2	e 11.8	16.5	A 15.0	2.5	v 12.2	3.7	e 11.7	17.5		
52.5	36.0	15.0	36.0	52.5																		
86.2	19.6	86.2																				

MAINTENANCE OF TRAFFIC SIGN PANEL - PRE-STAGE 2A & 2B (TEMP)
STA. 2296+00 (PRE-STAGE 2A)
STA. 2291+00 (PRE-STAGE 2B)

12.0" Radius, 2.0" Border, White on Orange;
[EXIT ONLY] ClearviewHwy-5-W; [Fayette Ave] ClearviewHwy-5-W; Arrow 80 - 25.0" 45°;
Table of widths and spaces.

53.9	E 6.4	2.1	X 8.7	2.7	I 1.9	3.0	T 7.3	10.5	O 9.3	3.6	N 8.3	4.0	L 5.9	1.8	Y 8.7	53.9						
17.5	F 9.8	4.1	a 11.9	3.1	y 12.5	3.6	e 11.8	3.8	t 7.8	3.2	t 7.8	4.2	e 11.8	16.5	A 15.0	2.5	v 12.2	3.7	e 11.7	17.5		
52.5	36.0	15.0	36.0	52.5																		
86.2	19.6	86.2																				

* SIGNS ON THIS SHEET TO BE USED FOR MAINTAINENCE OF TRAFFIC

NOT TO SCALE

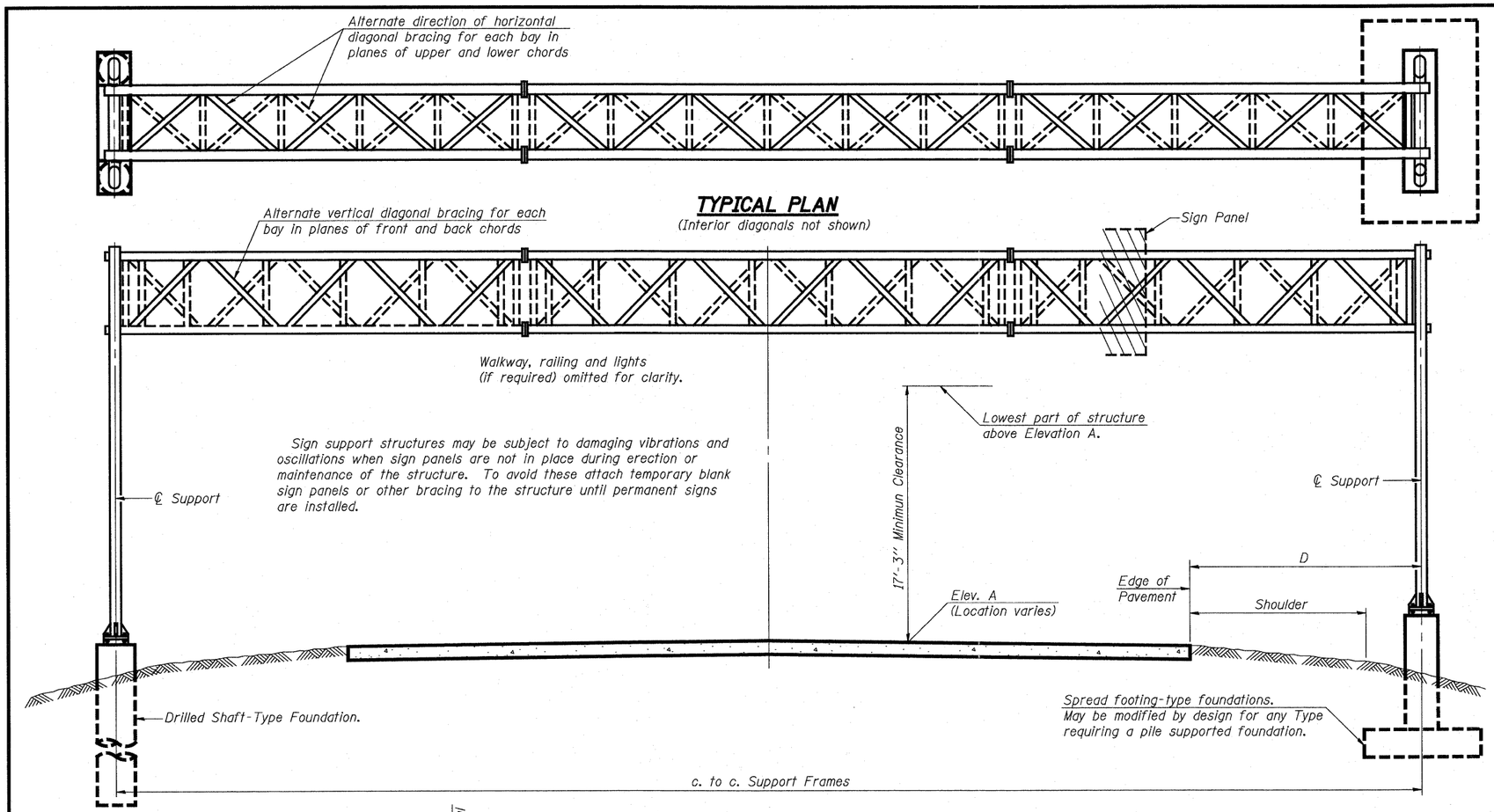
FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\Misc Revs 4-29-201\sign panel details_Revs 4-29-201.dgn	USER NAME = linda	DESIGNED - ESW	REVISED - 4-27-11
		DRAWN - LEC	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 4/21/2011	DATE - 6-15-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS, PRE-STAGE 2A, FAI ROUTE 57/70

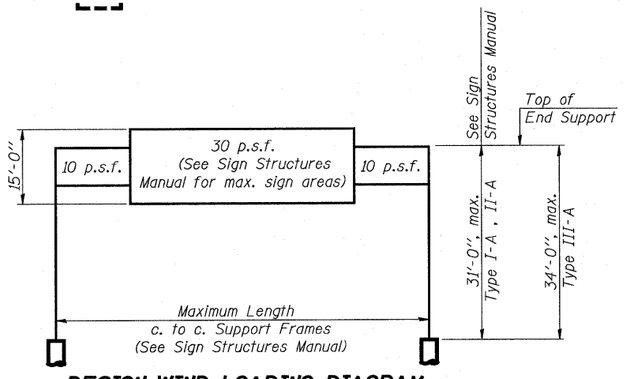
SCALE: 1"=50' | SHEET NO. 18 OF 49 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	260
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL PLAN

(Interior diagonals not shown)



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

TYPICAL ELEVATION

(Looking at Face of Signs**)

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
7S025I057R159.0	2131+68	I-A	91'-0"	596.54	18'-0"	9'-6"	206.0 SF
7S025I057L159.6	2161+20	I-A	89'-0"	569.59	18'-0"	11'-6"	494.0 SF
7S025I057L160.7	2219+50	I-A	90'-0"	605.15	18'-0"	11'-6"	240.25 SF
7S025I057R161.3	2249+25	I-A	72'-0"	603.45	18'-0"	14'-6"	575.25 SF
7S025I057L160.4	26+98	I-A	71'-0"	609.05	18'-0"	9'-0"	285.5 SF

**Looking upstation for structures with signs both sides.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:
Field Units
f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specificiations.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.
The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to AASHTO M314 Gr. 36, 55 or 105 with a minimum Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	413'-0"
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	273'-6"
CONCRETE FOUNDATIONS	Cu. Yds.	16.9
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	130.8

OS-A-1 7-1-10

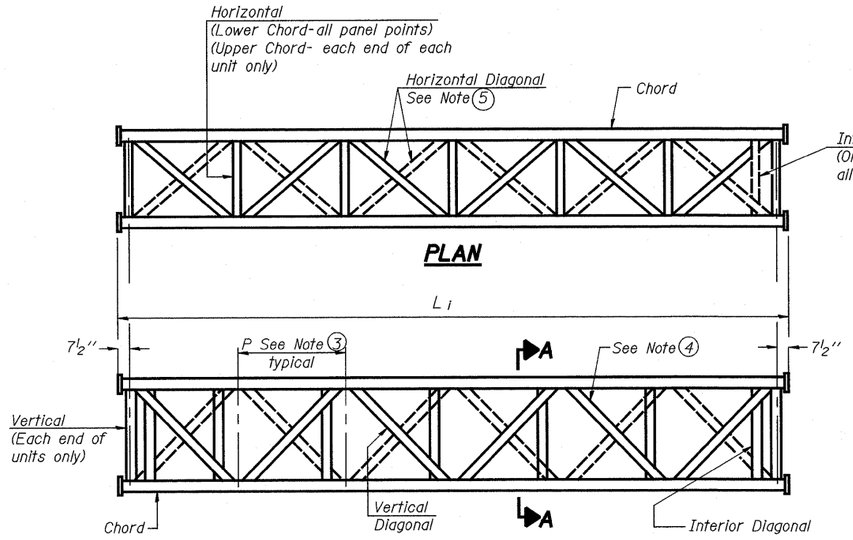
FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED - 4-27-11
		CHECKED - JWS	REVISED -
	PLOT SCALE =	DRAWN - PDB	REVISED -
	PLOT DATE =	CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES – GENERAL PLAN & ELEVATION – ALUMINUM TRUSS & STEEL SUPPORTS

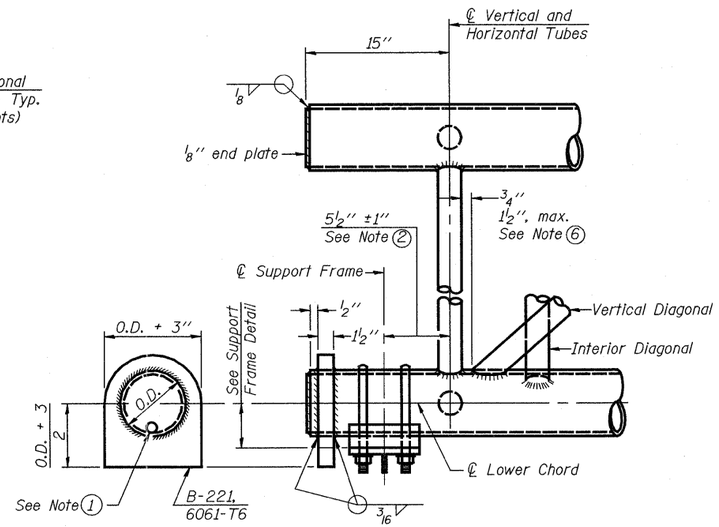
SHEET NO. 19 OF 49 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	261
		CONTRACT NO. 74299		
	ILLINOIS FED. AID PROJECT			

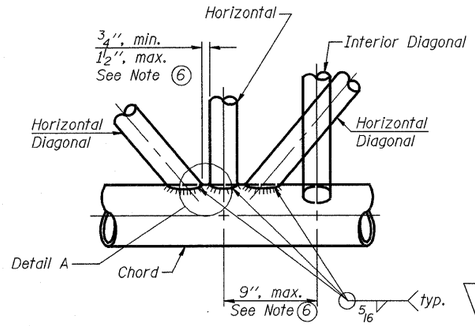


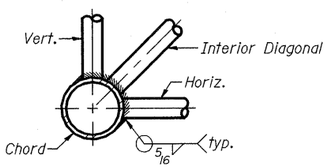
ELEVATION
TYPICAL INTERIOR UNIT

Even number of panels/interior unit required.

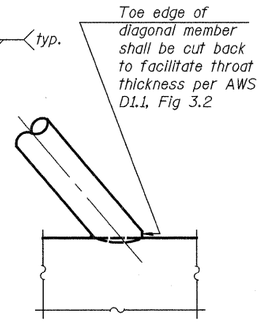


SUPPORT END DETAIL FOR EXTERIOR UNIT

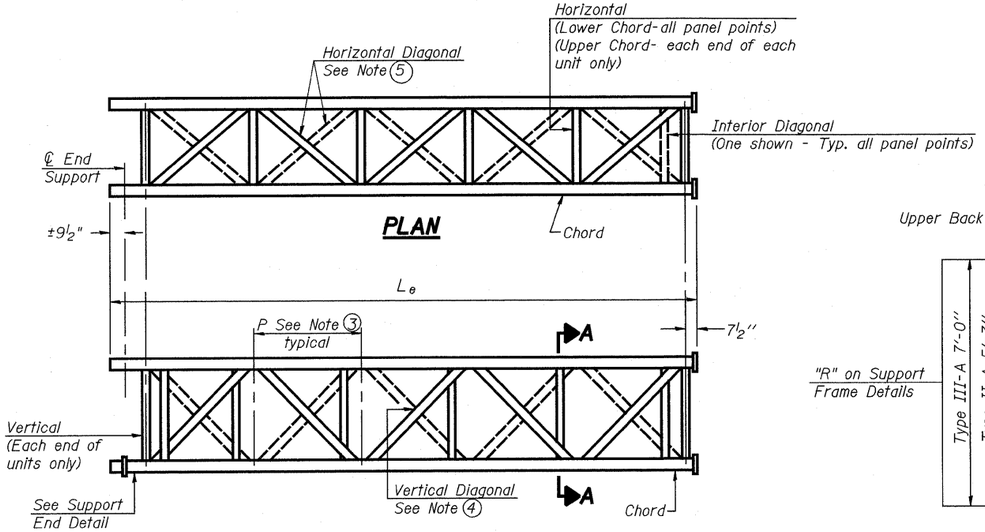




TYPICAL JOINT DETAILS

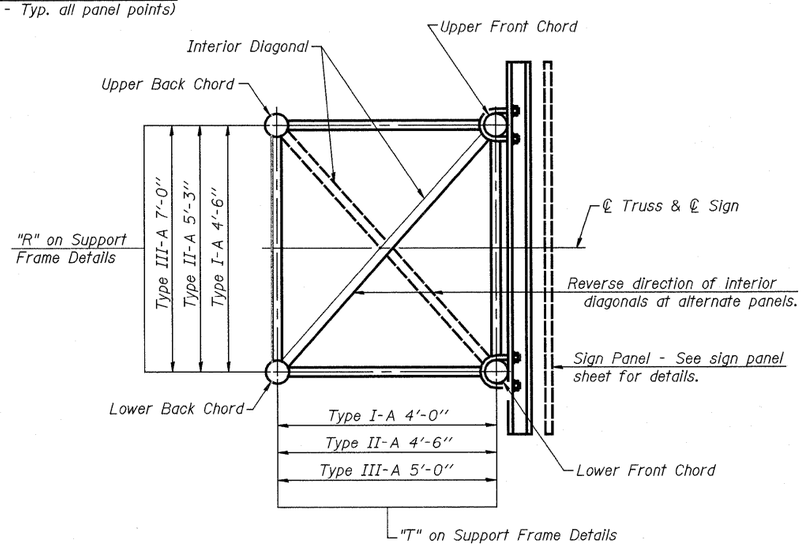


DETAIL A



ELEVATION
TYPICAL EXTERIOR UNIT

Even or odd number of panels/exterior units allowed.



SECTION A-A

1. Contractor may alternatively use standard aluminum drive-fit cap to close end. ½" ϕ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
2. 5½" end dimension may vary by ±1" to provide uniform panel spacing (P).
3. Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
4. Vertical Diagonals in front and back face shall alternate.
5. Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
6. All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a ¾" minimum to 1½" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

OS-A-2 7-1-10

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
	PLOT SCALE =	DRAWN - PDB	REVISED -
	PLOT DATE =	CHECKED - BRM	REVISED -

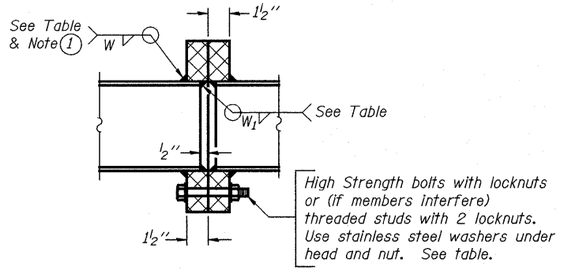
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES – ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I-A, II-A AND III-A
SHEET NO. 20 OF 49 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	262
		CONTRACT NO. 74299		
	ILLINOIS FED. AID PROJECT			

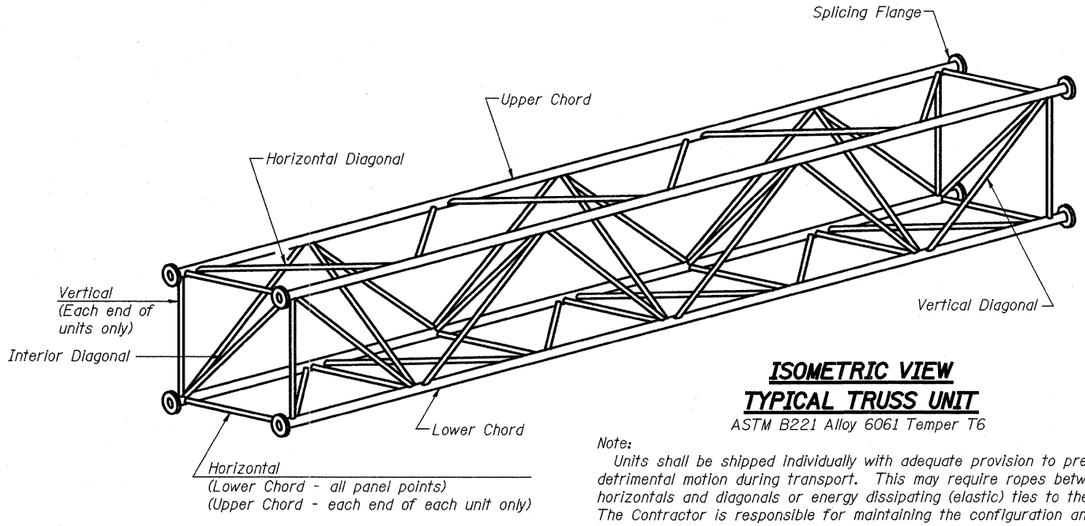
TRUSS UNIT TABLE

Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(L_e)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L_I)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W_1		
7S025I057R159.0	2131+68	I-A	6	31'-1½"	4'-10½"	1	6	30'-6"	4'-10½"	5½"	5/16"	2½"	5/16"	2.80"	6	7/8"	3/8"	1/4"	9¼"	12¼"
7S025I057L159.6	2161+20	I-A	6	30'-4½"	4'-9"	1	6	29'-9"	4'-9"	5"	5/16"	2½"	5/16"	2.70"	6	7/8"	5/16"	1/4"	8¾"	11¾"
7S025I057L160.7	2219+50	I-A	6	30'-9"	4'-9¾"	1	6	30'-1½"	4'-9¾"	5"	5/16"	2½"	5/16"	2.75"	6	7/8"	5/16"	1/4"	8¾"	11¾"
7S025I057R161.3	2249+25	I-A	7	36'-10½"	5'-0"	0	-	-	-	5"	5/16"	2½"	5/16"	1.85"	6	7/8"	5/16"	1/4"	8¾"	11¾"
7S025I057L160.4	26+98	I-A	7	36'-3½"	4'-11"	0	-	-	-	5"	5/16"	2½"	5/16"	1.80"	6	7/8"	5/16"	1/4"	8¾"	11¾"



SECTION B-B

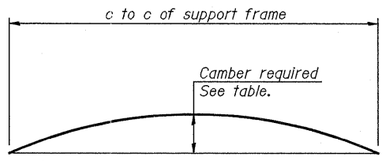
(1) Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



ISOMETRIC VIEW
TYPICAL TRUSS UNIT

ASTM B221 Alloy 6061 Temper T6

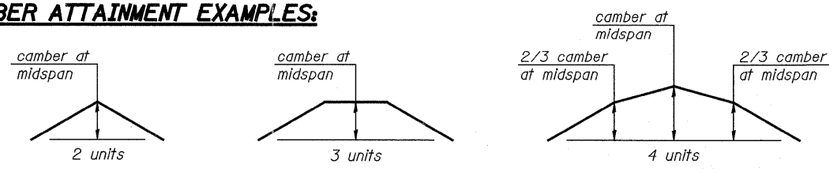
Note:
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.



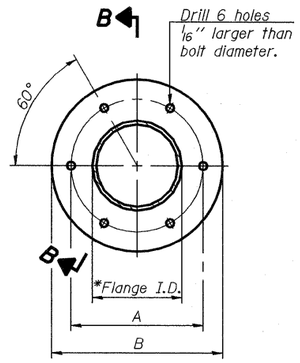
CAMBER DIAGRAM

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

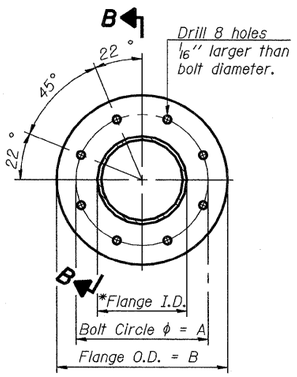
CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)



TRUSS TYPES I-A, II-A, & III-A



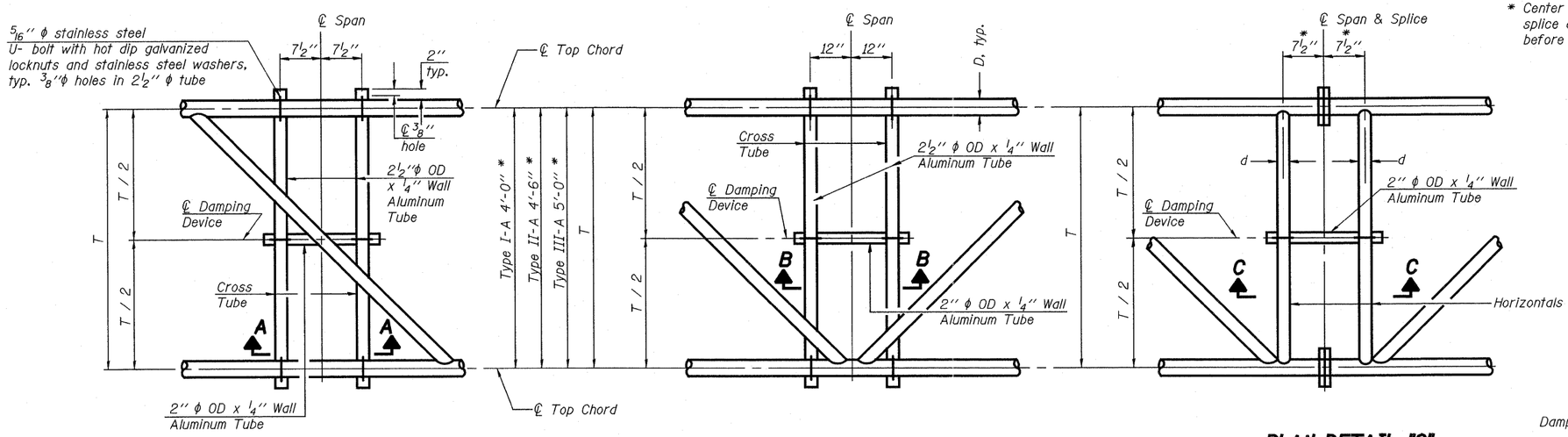
TRUSS TYPES II-A & III-A

SPLICING FLANGES

ASTM B221, Alloy 6061-T6
or ASTM B209, Alloy 6061-T651
*To fit O.D. of Chord with maximum gap of 1/16".

OS4-A-2 7-1-10

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES – ALUMINUM TRUSS DETAILS FOR TRUSS TYPES I-A, II-A AND III-A	F.A.I RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
		CHECKED - JWS	REVISED -			(25-3,4)R / EFFINGHAM / 1098 / 263
	PLOT SCALE =	DRAWN - PDB	REVISED -		SHEET NO. 21 OF 49 SHEETS	CONTRACT NO. 74299
	PLOT DATE =	CHECKED - BRM	REVISED -			ILLINOIS FED. AID PROJECT



* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

PLAN DETAIL "A"
℄ Span between Panel Points

PLAN DETAIL "B"
℄ Span at Panel Point

PLAN DETAIL "C"
℄ Span at ℄ Chord Splice

NOTES

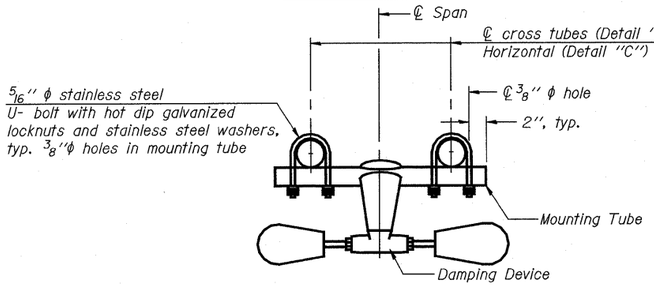
Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure...

Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...

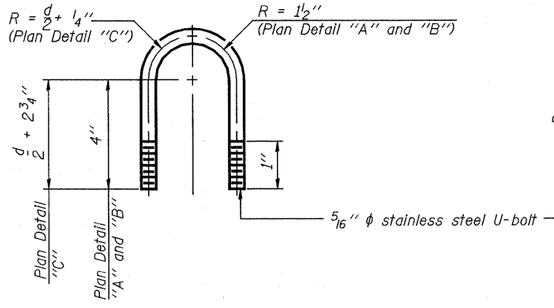
SECTION A-A

SECTION B-B

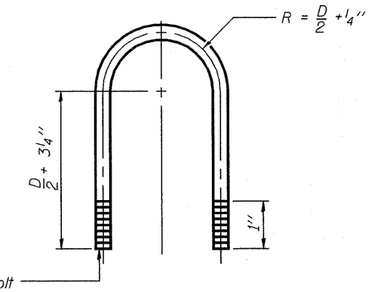
SECTION C-C



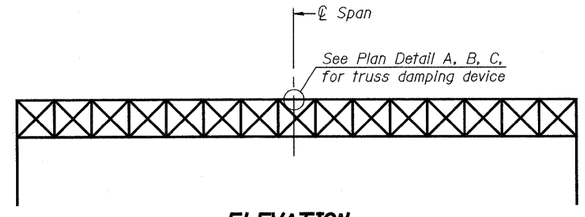
TRUSS DAMPING DEVICE CONNECTION DETAIL
(Typical)



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical - Detail "A" and "B")



ELEVATION
Aluminum Overhead Sign Truss

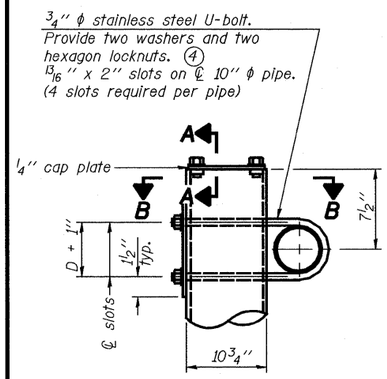
OS-A-D 7-1-10

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
	PLOT SCALE =	DRAWN - PDB	REVISED -
	PLOT DATE =	CHECKED - BRM	REVISED -

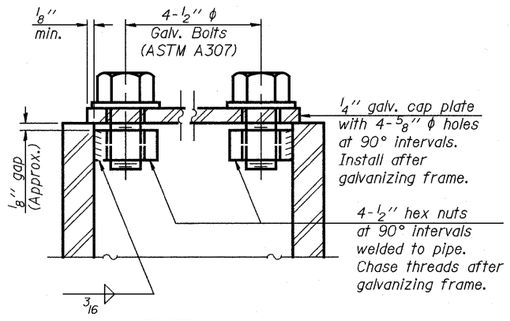
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURE
DAMPING DEVICE
SHEET NO. 22 OF 49 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(25-3,4)R	EFFINGHAM	1098	264
		CONTRACT NO. 74299		
	ILLINOIS FED. AID PROJECT			

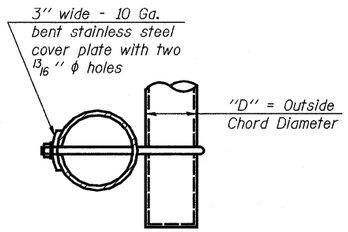


DETAIL A

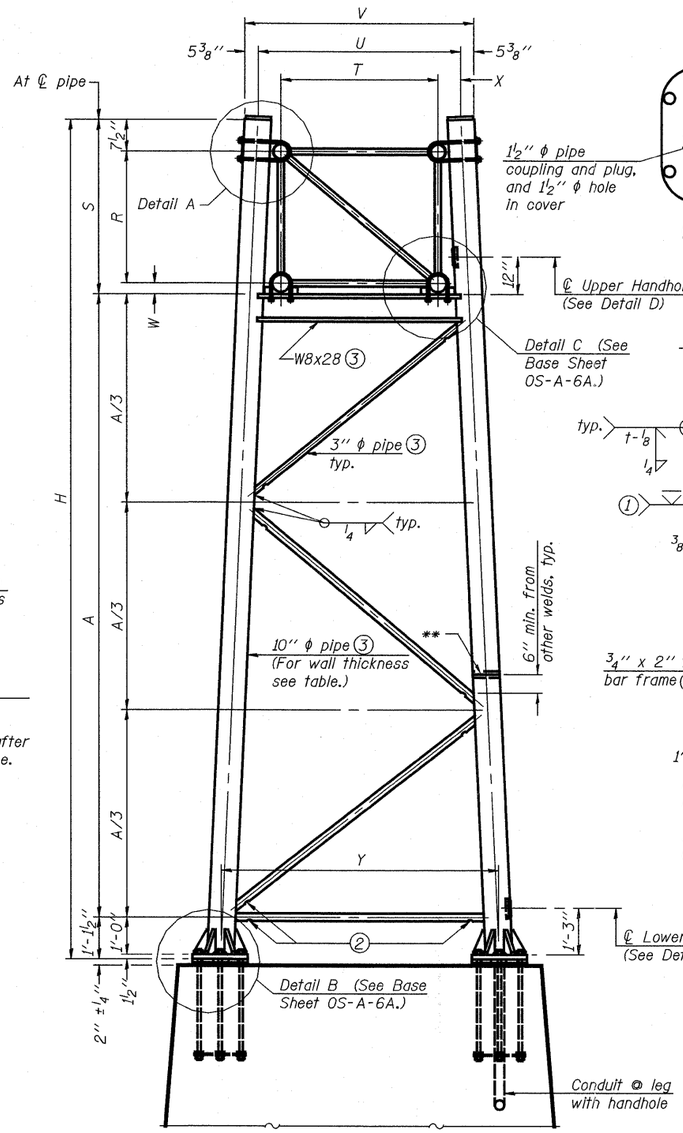


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.

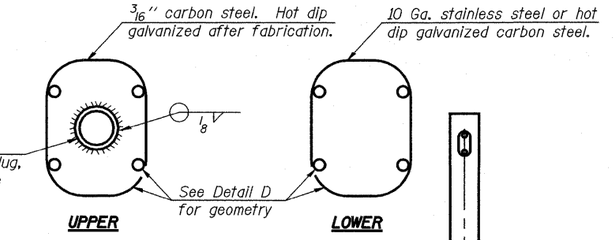


SECTION B-B

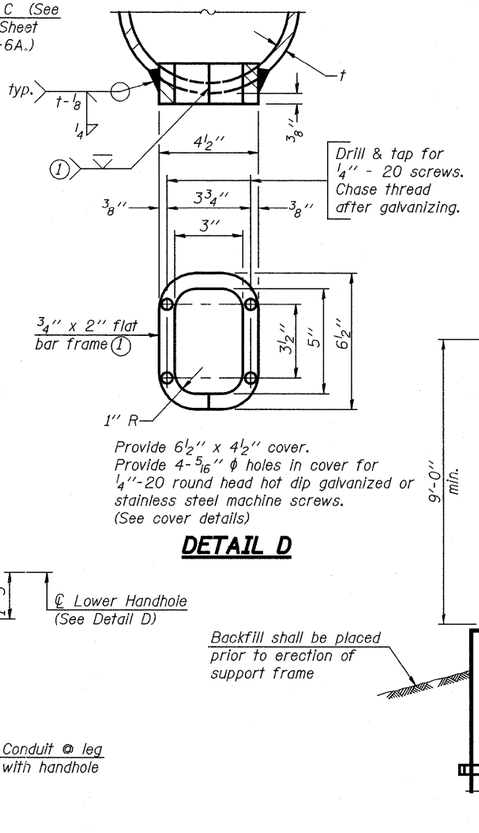


For Foundation Details, see base sheet OS-F3 (Spread Footing) or OS4-F3 (Drilled Shaft).

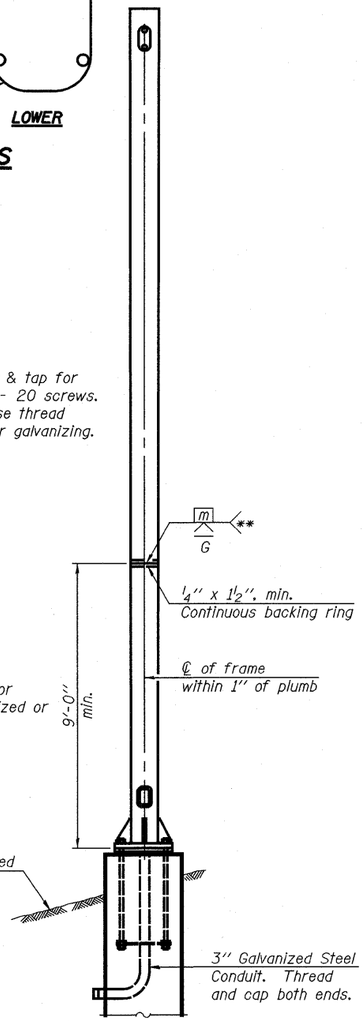
SIDE ELEVATION



HANDHOLE COVERS



DETAIL D



END ELEVATION

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

1. In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 μin or less.
2. Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
3. Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
4. See General Notes for fasteners.
5. Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
6. "H" based on 15'-0" or actual sign height, whichever is greater.

Truss Type	Dimensions							
	R	S	T	U	V	W	X	Y
I-A	4'-6"	5'-5 1/2"	4'-0"	5'-6"	6'-4 3/4"	4"	9"	8'-3"
II-A (5)	5'-3"	6'-3 1/4"	4'-6"	6'-1"	6'-11 3/4"	4 3/4"	9 1/2"	8'-3"

10" ϕ PIPE TRUSS SUPPORT FRAME

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	Support Left	Support Right	Truss Type	Pipe Wall Thickness	H (6)	A
7S025I057R159.0	2131+68		✓	I-A	0.279	28'-2"	21'-7"
7S025I057R159.0	2131+68	✓		I-A	0.279	26'-4"	19'-9"
7S025I057L159.6	2161+20	✓		I-A	0.279	28'-3"	21'-8"
7S025I057L159.6	2161+20		✓	I-A	0.279	26'-5"	19'-10"
7S025I057L160.7	2219+50	✓		I-A	0.279	28'-0"	21'-5"
7S025I057L160.7	2219+50		✓	I-A	0.279	27'-5"	20'-10"
7S025I057L161.3	2249+25		✓	I-A	0.279	28'-3"	21'-8"
7S025I057L161.3	2249+25	✓		I-A	0.279	25'-11"	19'-4"
7S025I057L160.4	26+98	✓		I-A	0.279	29'-6"	22'-11"
7S025I057L160.4	26+98		✓	I-A	0.279	27'-9"	21'-2"

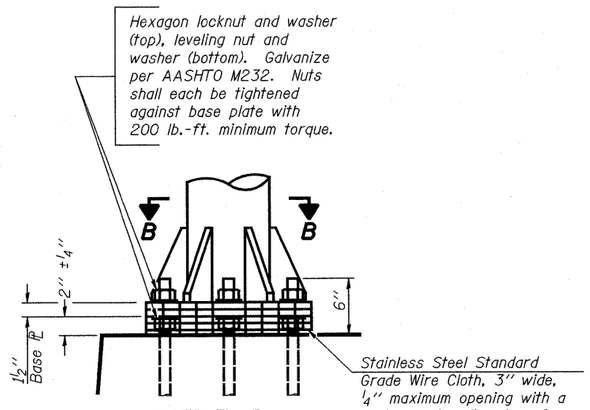
OS-A-6 7-1-10

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
	PLOT SCALE =	DRAWN - PDB	REVISED -
	PLOT DATE =	CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

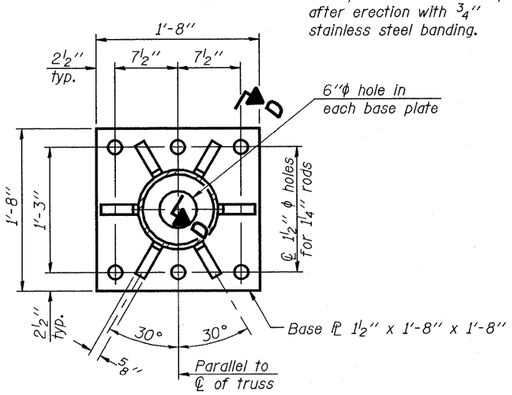
OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR ALUMINUM TRUSS
SHEET NO. 23 OF 49 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	265
		CONTRACT NO. 74299		
	ILLINOIS FED. AID PROJECT			

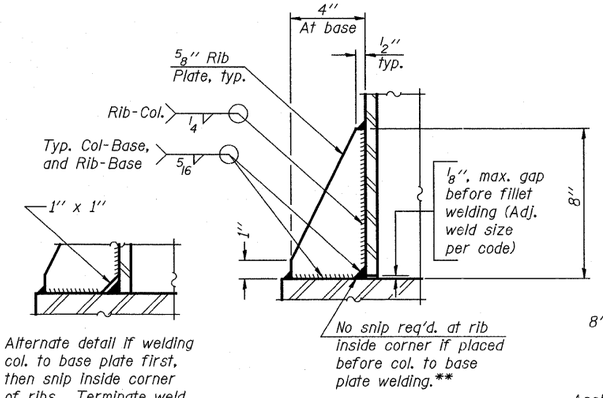


DETAIL B

Ribs shall be cut to fit slope of pipe.

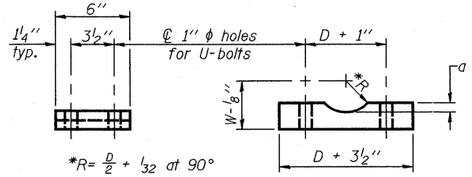


SECTION B-B



** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4'' from snip.

SECTION D-D



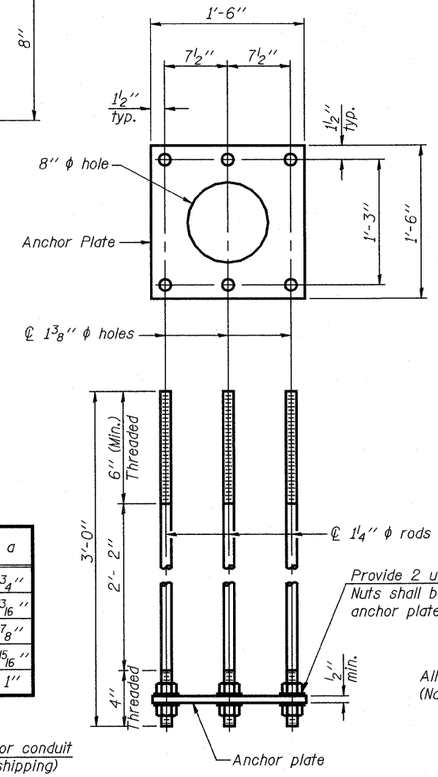
*R= D/2 + 1/32 at 90°

D = Outside Diameter of Chord.
For W, see Base Sheet OS-A-6.

SADDLE SHIM DETAIL

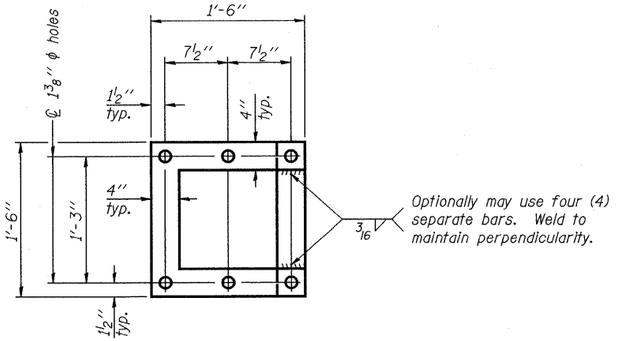
ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T651
(4 required per sign truss)

Truss Chord Nominal Dia.	a
5''	3/4''
5 1/2''	13/16''
6''	7/8''
6 1/2''	15/16''
7''	1''

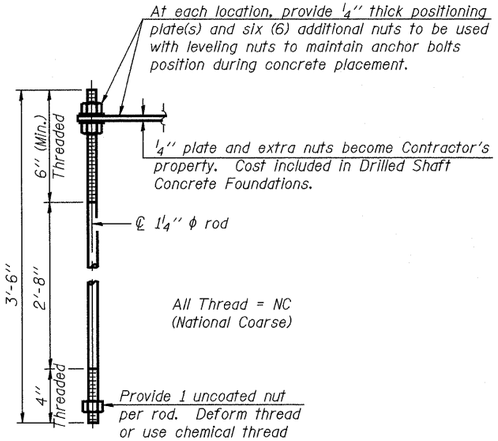


ANCHOR ROD DETAIL

Spread Footing Foundation

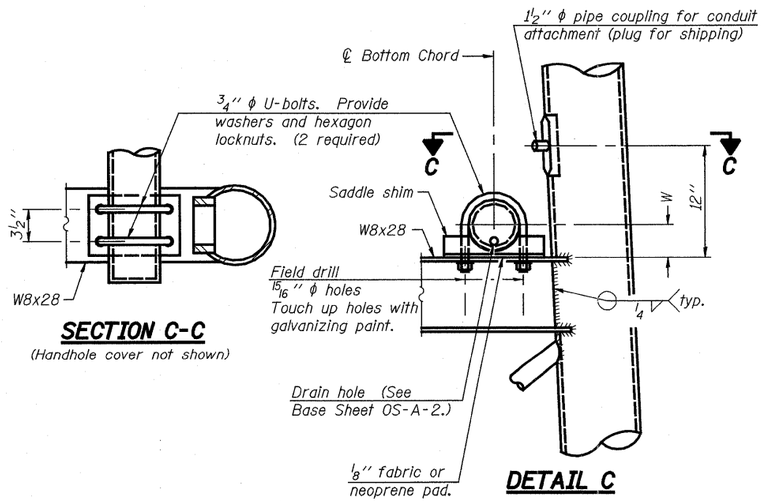


POSITIONING PLATE(S)



ANCHOR ROD DETAIL

Drilled Shaft Foundation



SECTION C-C

(Handhole cover not shown)

DETAIL C

Anchor rods shall conform to AASHTO M314 Grade 36 or 50 and meet Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. Galvanize upper 12'' per AASHTO M232. No welding shall be permitted on rods.

10'' ϕ PIPE SUPPORT FRAME DETAILS

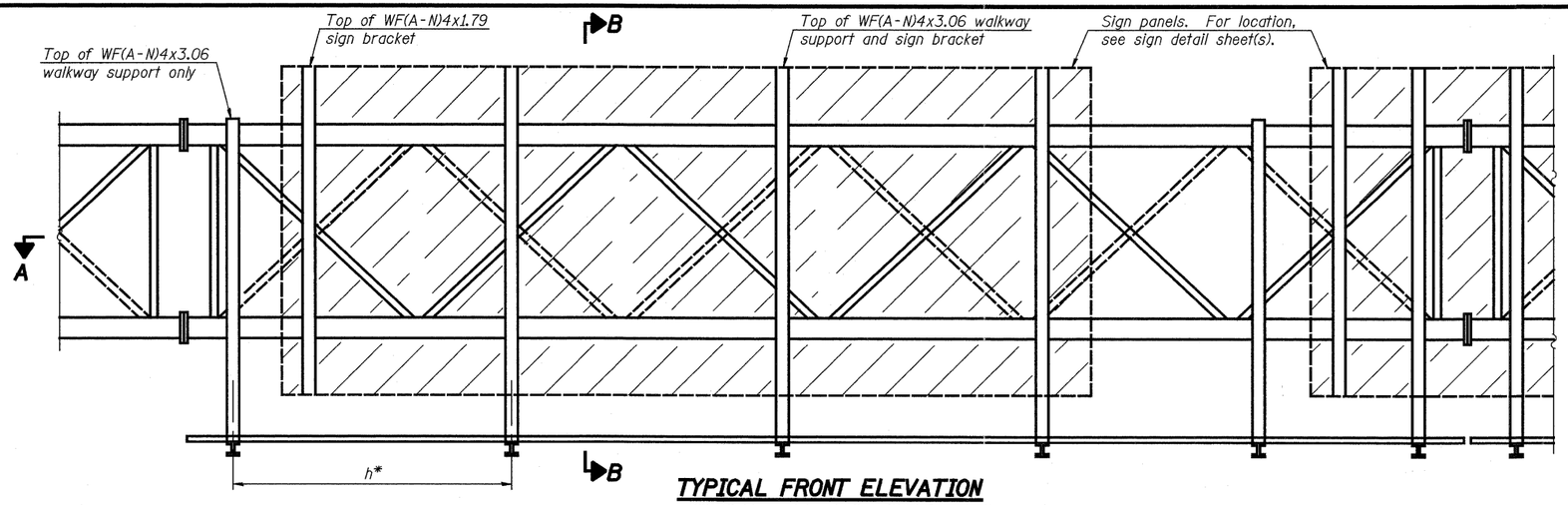
OS-A-6A 7-1-10

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
	PLOT SCALE =	DRAWN - PDB	REVISED -
	PLOT DATE =	CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

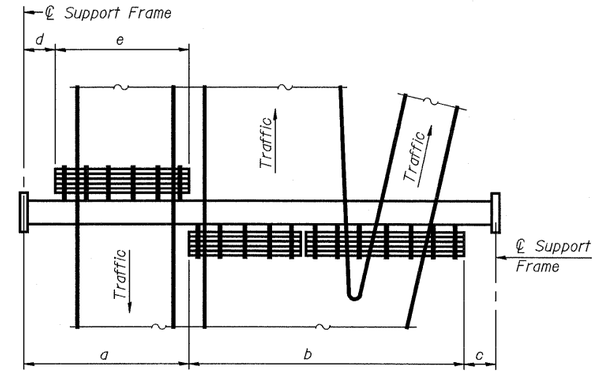
OVERHEAD SIGN STRUCTURES
SUPPORT FRAME DETAILS – ALUMINUM TRUSS
SHEET NO. 24 OF 49 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	266
		CONTRACT NO. 74299		
	ILLINOIS FED. AID PROJECT			



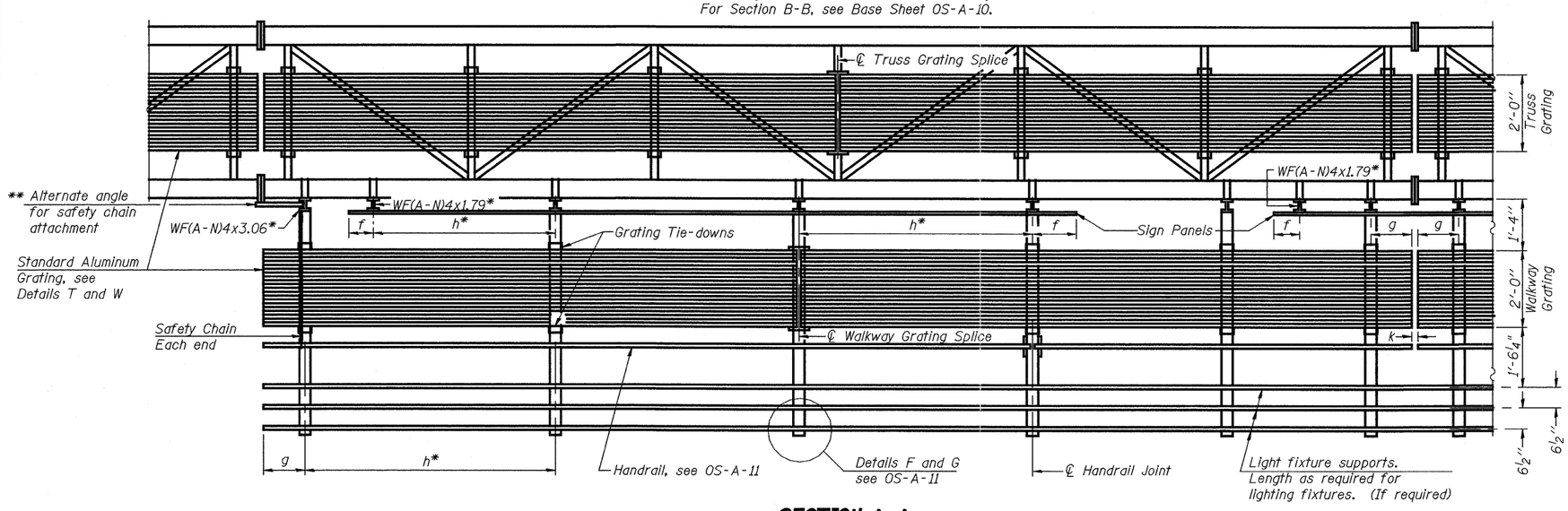
TYPICAL FRONT ELEVATION

With lights and handrail omitted for clarity.
For Section B-B, see Base Sheet OS-A-10.



PLAN
WALKWAY AND HANDRAIL SKETCH

(Road plan beneath truss varies)



SECTION A-A

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints.
Place all sign and walkway brackets as close to panel points as practical.
Handrail joints, grating, and light support splices placed as needed.

BRACKET TABLE

WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

Notes:

* Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to ℄ of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway grating to ℄ of nearest support bracket)
h = 6'-0" maximum (℄ to ℄ sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
k = 2" maximum gap between adjacent walkway grating sections and handrail ends

** If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet OS-A-11.

For Details T and W, Section B-B and Grating Splice Details see Base Sheet OS-A-10.
For Handrail Details see Base Sheet OS-A-11.

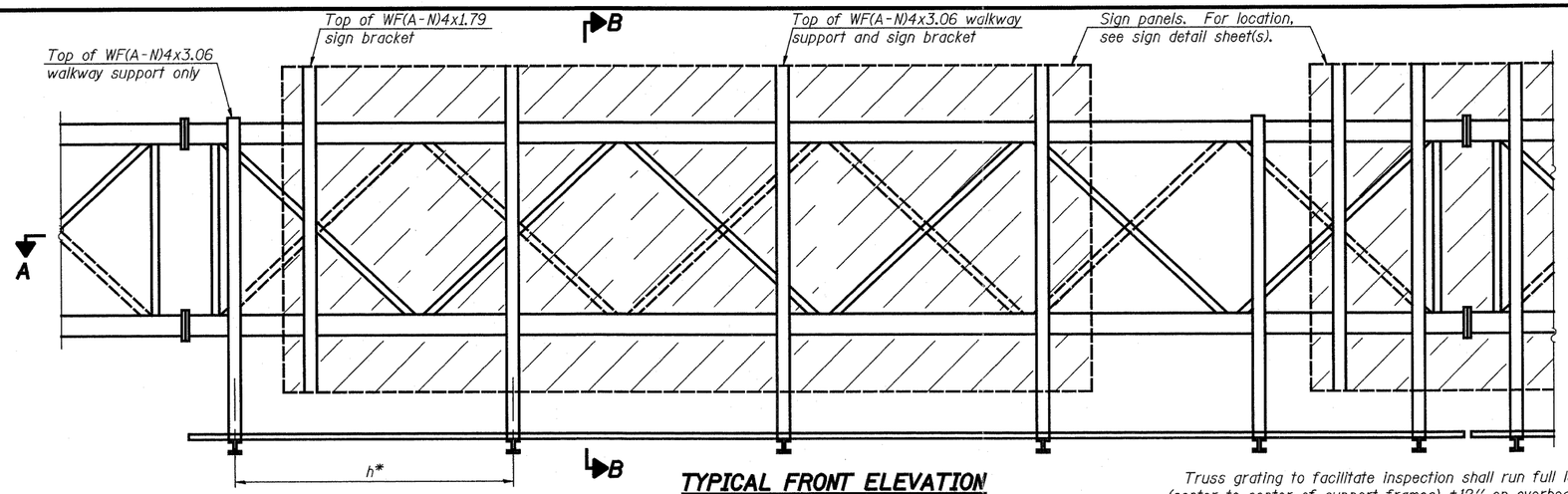
Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
7S025I057R159.0	2131+68	16'-0"	57'-0"	18'-0"	-	-	57'-0"
7S025I057L159.6	2161+20	16'-0"	56'-0"	18'-0"	-	-	56'-0"
7S025I057L160.7	2219+50	14'-0"	58'-0"	18'-0"	-	-	58'-0"
7S025I057R161.3	2249+25	7'-9"	56'-6"	7'-9"	-	-	56'-6"
7S025I057L160.4	26+98	12'-5"	46'-0"	12'-7"	-	-	46'-0"

Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

Walkway and Truss Grating width dimensions are nominal and may vary ±½" based on available standard widths.

OS-A-9 7-1-10

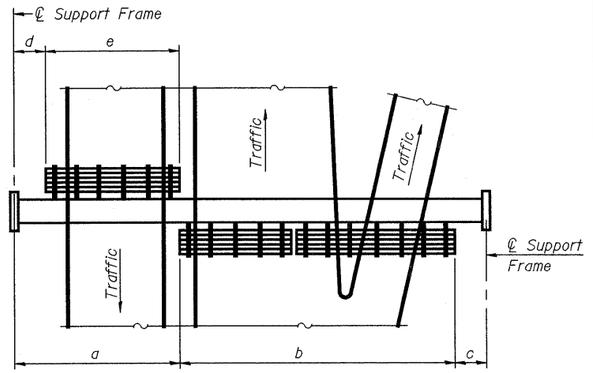
FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES ALUMINUM WALKWAY DETAILS	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JWS	REVISED -			57/70	(25-3,4)R	EFFINGHAM	1098	267
	PLOT SCALE =	DRAWN - PDB	REVISED -						CONTRACT NO. 74299	
	PLOT DATE =	CHECKED - BRM	REVISED -		SHEET NO. 25 OF 49 SHEETS			ILLINOIS FED. AID PROJECT		



TYPICAL FRONT ELEVATION

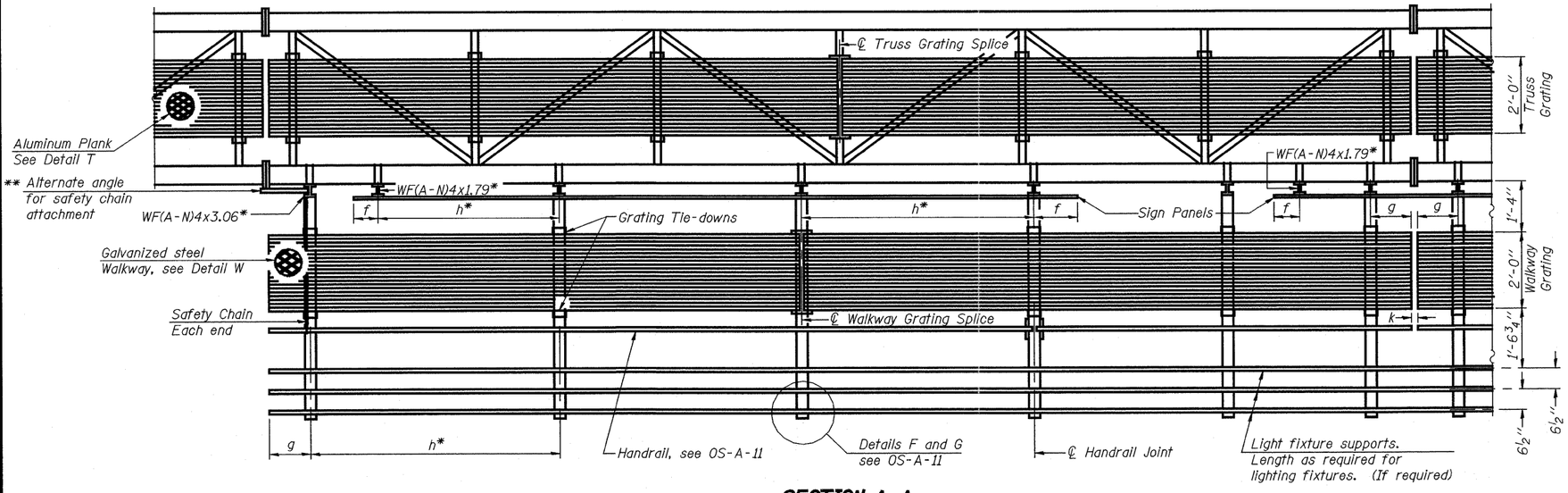
With lights and handrail omitted for clarity.
For Section B-B, see Base Sheet OS-A-10.

Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".



PLAN
WALKWAY AND HANDRAIL SKETCH

(Road plan beneath truss varies)



SECTION A-A

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints.
Place all sign and walkway brackets as close to panel points as practical.
Handrail joints, grating, and light support splices placed as needed.

BRACKET TABLE

WF(A-N)4x1.79 or WF(A-N)4x3.06
ASTM B308, Alloy 6061-T6

Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

Notes:
* Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to ℄ of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway grating to ℄ of nearest support bracket)
h = 6'-0" maximum (℄ to ℄ sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
k = 2" maximum gap between adjacent walkway grating sections and handrail ends

** If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet OS-A-11.

For Details T and W, Section B-B and Grating Splice Details see Base Sheet OS-A-10.
For handrail details see base sheet OS-A-11.

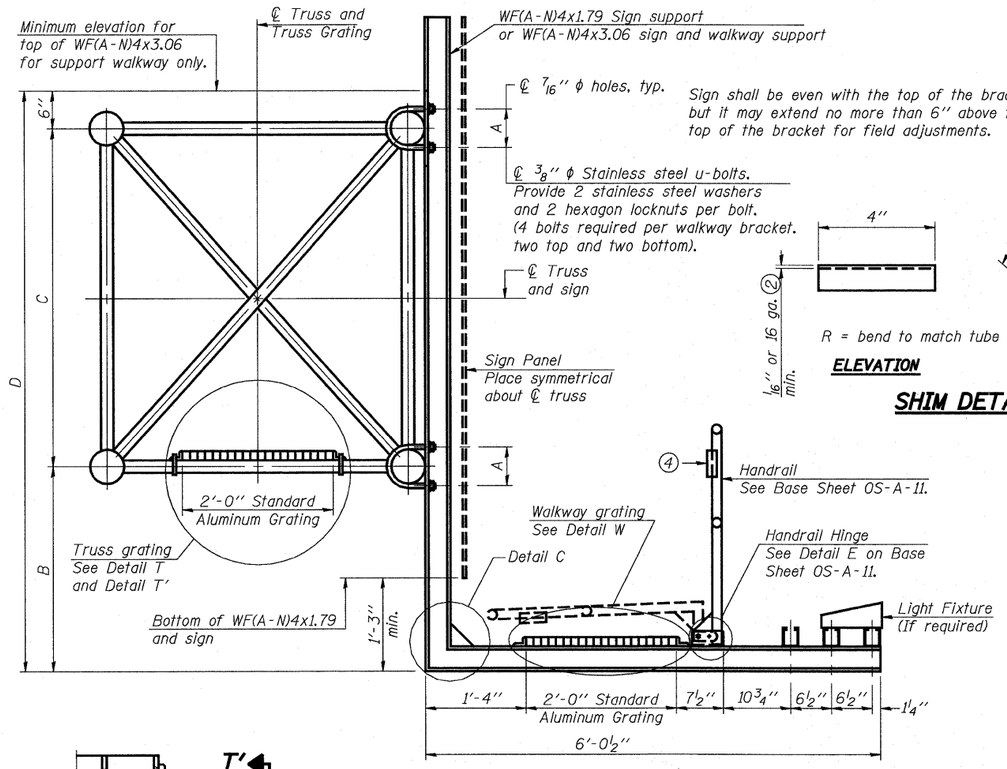
Note:
Details shown are considered equal alternatives to the Aluminum Walkway on Base Sheet OS-A-9, and may be substituted by Contractor at no change in contract cost.

Walkway and Truss Grating width dimensions are nominal and may vary ±½" based on available standard widths.

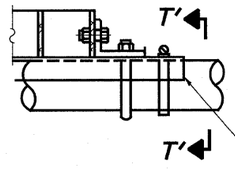
Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
7S025I057RI59.0	2131+68	16'-0"	57'-0"	18'-0"	-	-	57'-0"
7S025I057LI59.6	2161+20	16'-0"	56'-0"	18'-0"	-	-	56'-0"
7S025I057LI60.7	2219+50	14'-0"	58'-0"	18'-0"	-	-	58'-0"
7S025I057RI61.3	2249+25	7'-9"	56'-6"	7'-9"	-	-	56'-6"
7S025I057LI60.4	26+98	12'-5"	46'-0"	12'-7"	-	-	46'-0"

OS-A-9S 7-1-10

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES ALTERNATE WALKWAY DETAILS	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JWS	REVISED -			57/70	(25-3,4)R	EFFINGHAM	1098	268
	PLOT SCALE =	DRAWN - PDB	REVISED -						CONTRACT NO. 74299	
	PLOT DATE =	CHECKED - BRM	REVISED -		SHEET NO. 26 OF 49 SHEETS			ILLINOIS FED. AID PROJECT		



SECTION B-B



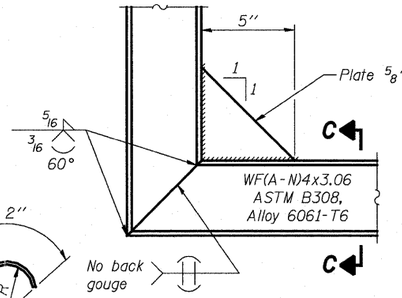
DETAIL T'

(Truss grating splice)

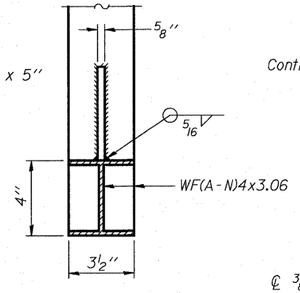
Details not shown same as Detail T. Alternate materials may be used subject to the Engineer's review and approval.

ELEVATION END VIEW

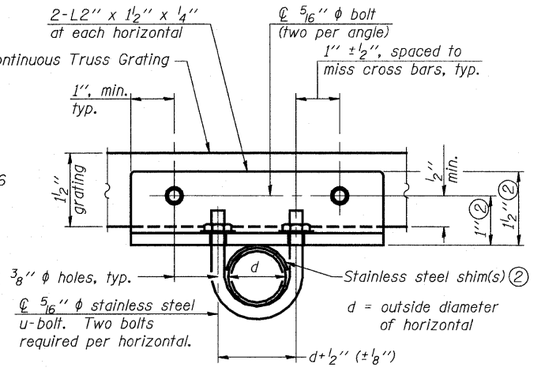
SHIM DETAIL



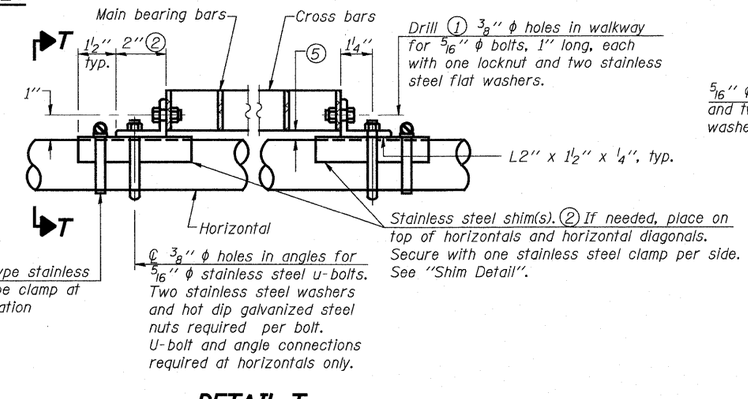
DETAIL C



SECTION C-C

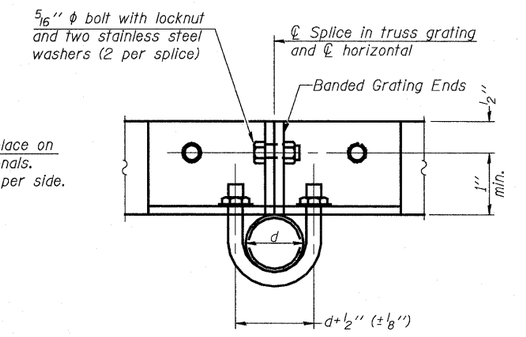


SECTION T-T

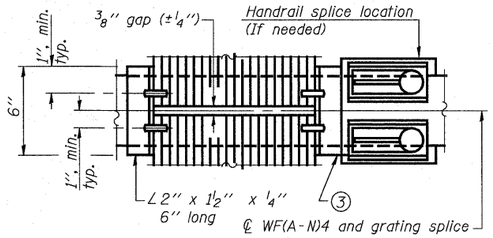


DETAIL T

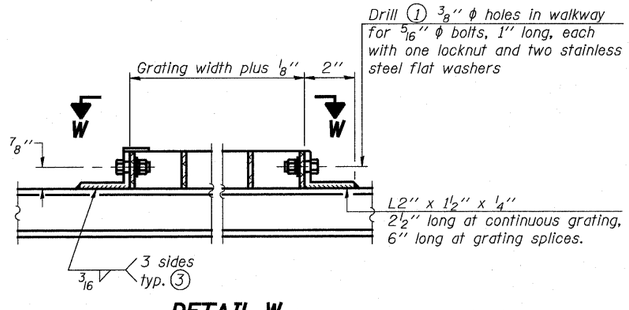
(Continuous Truss grating)



SECTION T'-T'

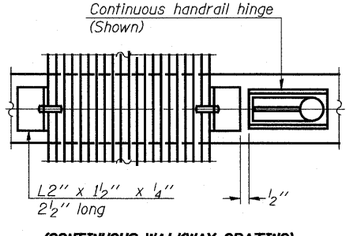


(AT WALKWAY GRATING SPLICE)



DETAIL W

(Walkway grating)



(CONTINUOUS WALKWAY GRATING)

SECTION W-W

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1½" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.

Cross bars shall be 3/16" x 1½" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "I" sections for main bearing bars shall meet the following requirements:

Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 $in.^3$ per bar, a depth of 1½", spaced on 1 3/16" centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	⑥ B	C	⑥ D
7S025I057R159.0	2131+68	6"	3'-9"	4'-6"	8'-9"
7S025I057L159.6	2161+20	5½"	4'-9"	4'-6"	9'-9"
7S025I057L160.7	2219+50	5½"	4'-9"	4'-6"	9'-9"
7S025I057R161.3	2249+25	5½"	6'-3"	4'-6"	11'-3"
7S025I057L160.4	26+98	5½"	3'-6"	4'-6"	8'-6"

(1) Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.

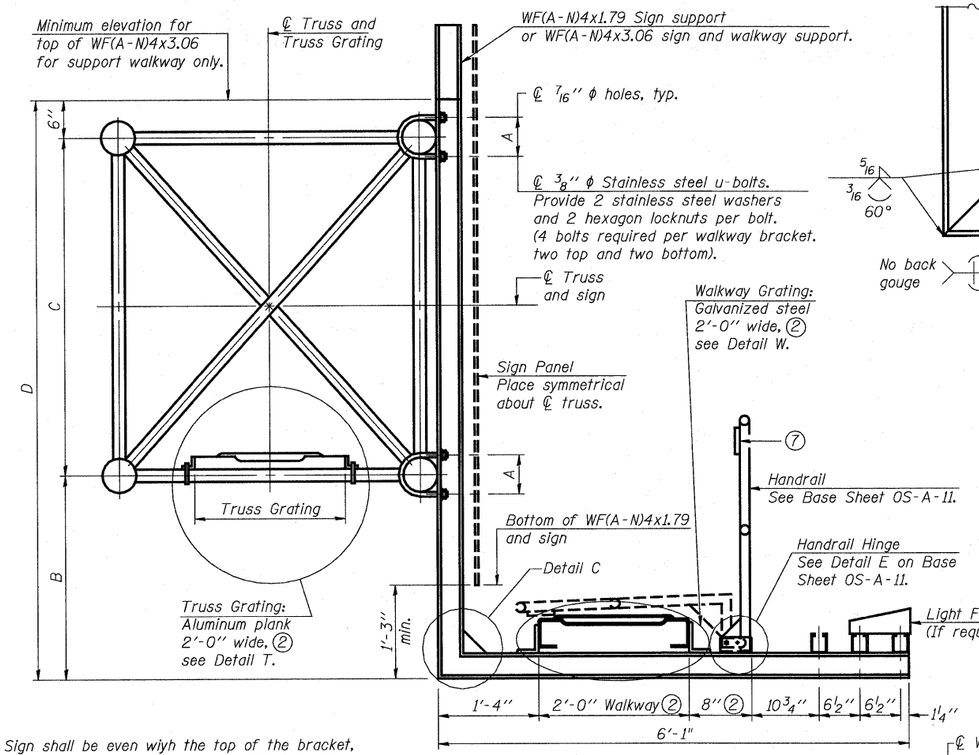
(2) Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.

(3) If Handrail Joint present, weld angle to WF(A-N)4 and ¼" extension bars. (See Base Sheet OS-A-11.)

(4) ℄ ⅛" x ½" x 2" welded to handrail posts to protect locations that contact grating.

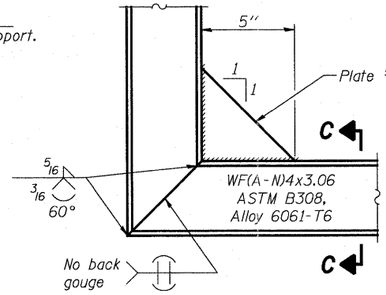
(5) Tube to grating gap may vary from 0 to ½", max. to align walkway, allow for camber, etc.

(6) Based on actual height of tallest sign given on OS-A-1.

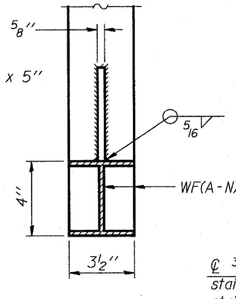


Sign shall be even wiyh the top of the bracket, but it may extend no more than 6" above the top of the bracket for field adjustments.

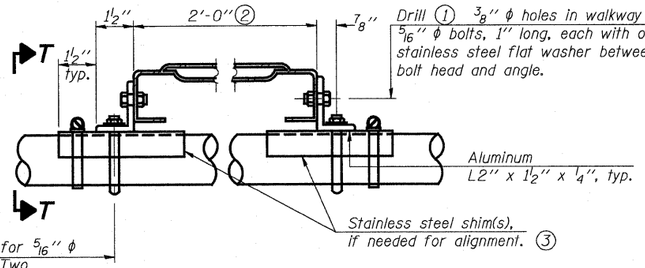
SECTION B-B



DETAIL C



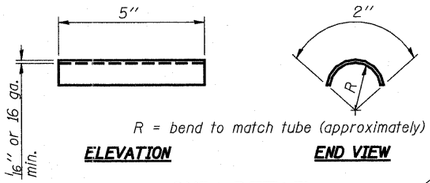
SECTION C-C



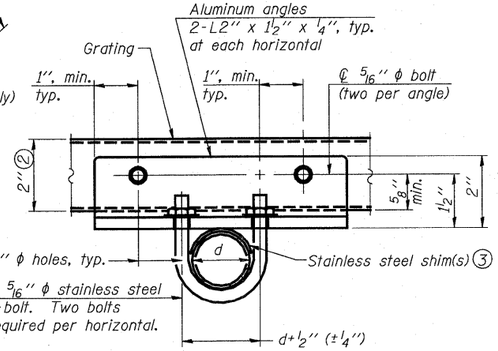
℄ 3/8" ϕ holes in angles for 5/16" ϕ stainless steel u-bolts. Two stainless steel washers and hot dip galvanized steel nuts required per bolt. U-bolt and angle connections required at horizontals only.

DETAIL T

(Truss grating at horizontal)



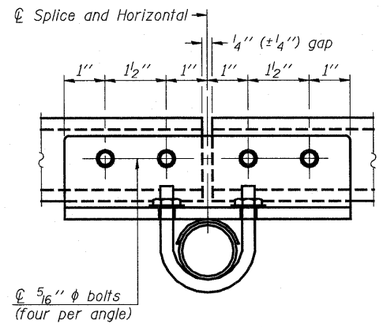
SHIM DETAIL



SECTION T-T

(Truss Grating Continuous)

d = outside diameter of horizontal

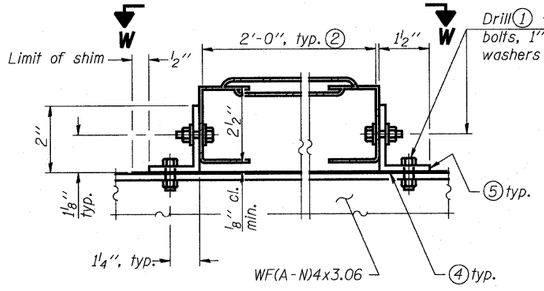


SECTION T-T

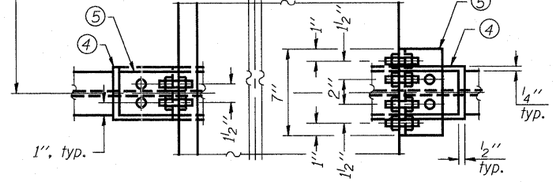
(Truss Grating Splice)

Alternate splice details and locations may be used subject to the Engineer's review and approval.

ALUMINUM TRUSS GRATING



DETAIL W
GALVANIZED STEEL WALKWAY GRATING



WALKWAY GRATING CONTINUOUS AT WALKWAY GRATING SPLICE

SECTION W-W

(1) Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.

(2) Perforated or expanded metal grating providing a skid resistant (non-serrated) surface and capable of supporting a 500 pound concentrated load with a 6'-0" clear span. Walkway and truss grating dimensions are nominal and may vary (width ±1/2", depth ±1/2") based on available standard sizes. Cut ends of grating shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.

(3) Stainless steel shims shall be placed under angles at horizontals and horizontal diagonals if needed to compensate for alignment variations and differences in horizontal diagonal pipe sizes beyond adjustment provided by angles. Secure with one stainless steel clamp per location, see "Shim Detail". Thicker shim plates may be used when needed subject to shims performing properly.

(4) 1/16" (or 16 ga.) x 2 1/2" x 4" stainless steel shim adhered to top of WF(A-N)4x3.06 beneath each galvanized angle. Adhesives for shims shall be suitable for materials joined and full exposure conditions.

(5) Galvanized steel L2" x 2" x 1/4", 3 1/2" long with continuous grating, 7" long at grating splice.

(6) Details shown are considered equal alternatives to the Aluminum Walkway on Base Sheet OS-A-10 and may be substituted by Contractor at no change in contract cost.

(7) PL 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.

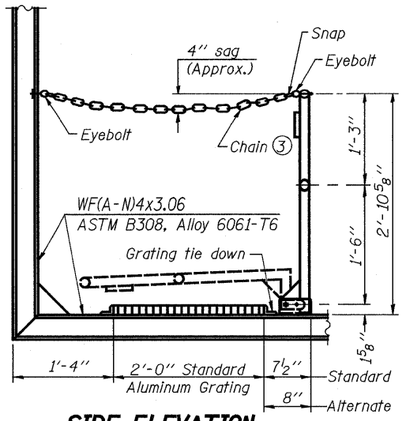
(8) Based on actual height of tallest sign given on OS-A-1.

Structure Number	Station	A	(8) B	C	(8) D
7S025I057R159.0	2131+68	6"	3'-9"	4'-6"	8'-9"
7S025I057L159.6	2161+20	5 1/2"	4'-9"	4'-6"	9'-9"
7S025I057L160.7	2219+50	5 1/2"	4'-9"	4'-6"	9'-9"
7S025I057R161.3	2249+25	5 1/2"	6'-3"	4'-6"	11'-3"
7S025I057L160.4	26+98	5 1/2"	3'-6"	4'-6"	8'-6"

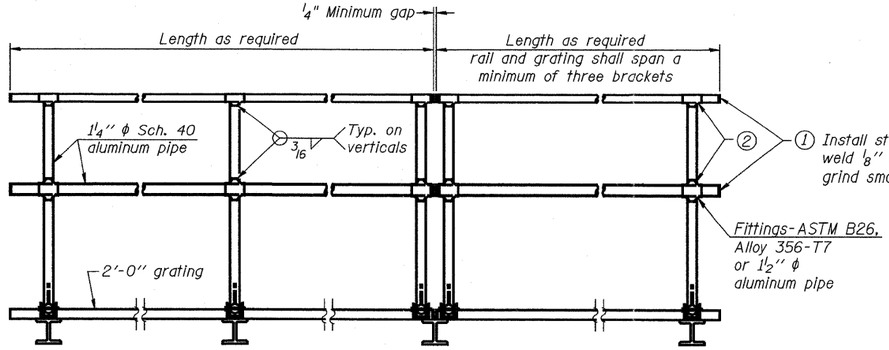
OS-A-10S 7-1-10

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED - 4-27-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES ALTERNATE WALKWAY DETAILS
		CHECKED - JWS	REVISED -		SHEET NO. 28 OF 49 SHEETS
	PLOT SCALE =	DRAWN - PDB	REVISED -		
	PLOT DATE =	CHECKED - BRM	REVISED -		

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	270
		CONTRACT NO. 74299		
	ILLINOIS FED. AID PROJECT			



SIDE ELEVATION
(Showing safety chain w/o sign)

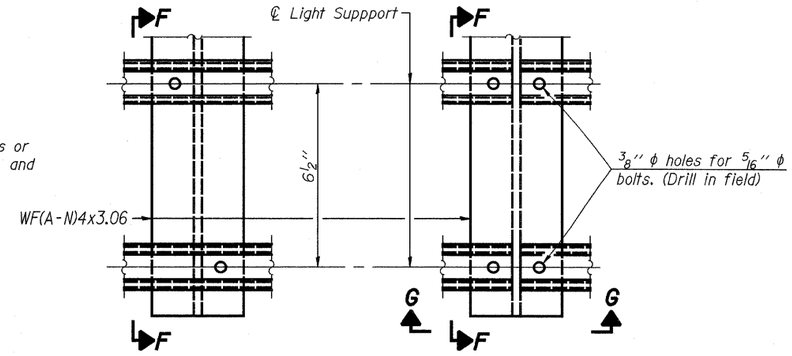


FRONT ELEVATION

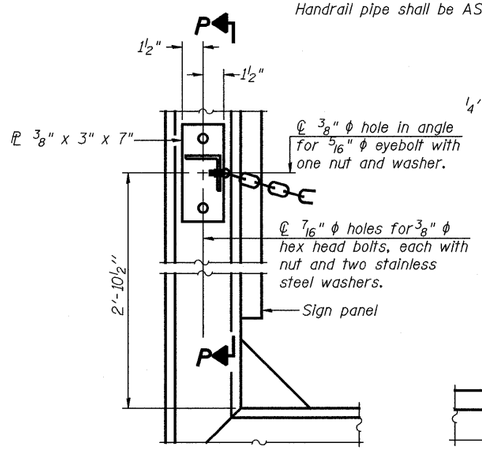
HANDRAIL DETAILS

Handrail pipe shall be ASTM B241 or B429, Alloy 6063-T6 or Alloy 6061-T6.

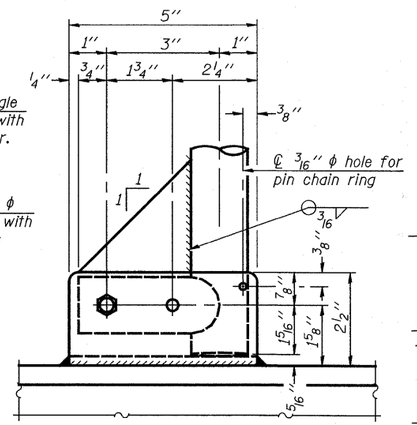
(2) Horizontal handrail member shall be continuous thru fitting. Provide 7/16" ϕ hole in fitting for 3/8" ϕ bolt. Field drill 7/16" ϕ hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16" eyebolts in 7/16"ϕ holes on top rail at ends only.)



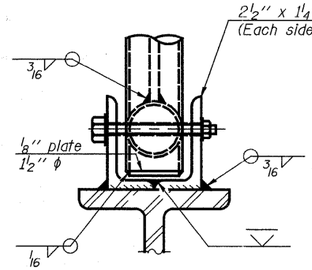
DETAIL F **DETAIL G**



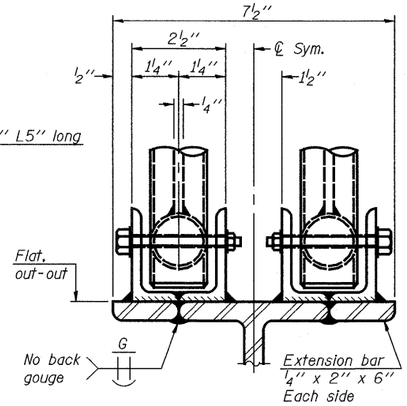
ALTERNATE SAFETY CHAIN ATTACHMENT
(With Sign Present)
Items not shown same as "Side Elevation" of "Handrail Details"



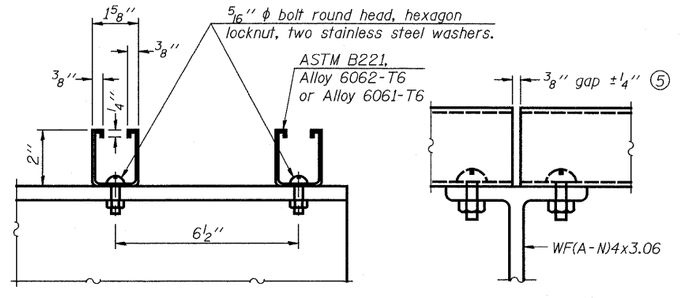
SIDE ELEVATION



FRONT ELEVATION
See "Elevation" at right for dimensions.



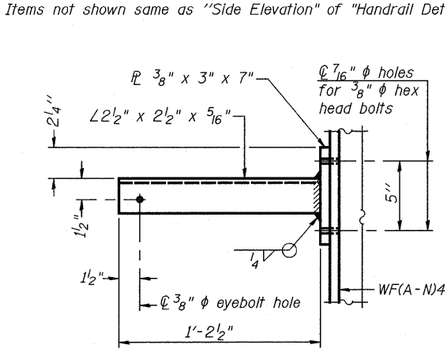
ELEVATION AT HANDRAIL JOINT (4)



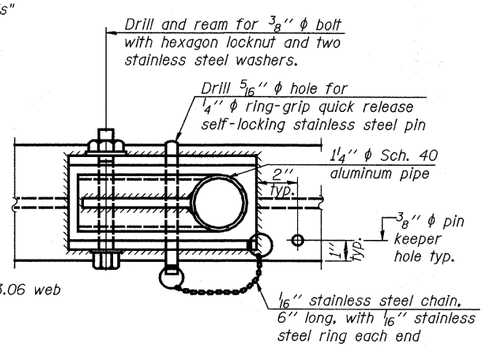
SECTION F-F **SECTION G-G**

LIGHTING FIXTURE MOUNTS (IF REQUIRED)

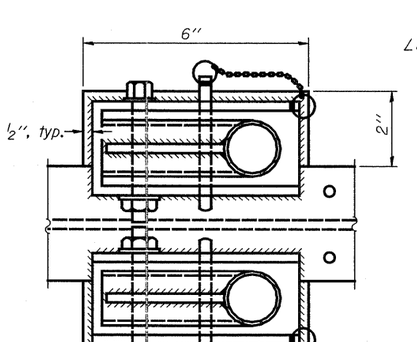
(5) Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.



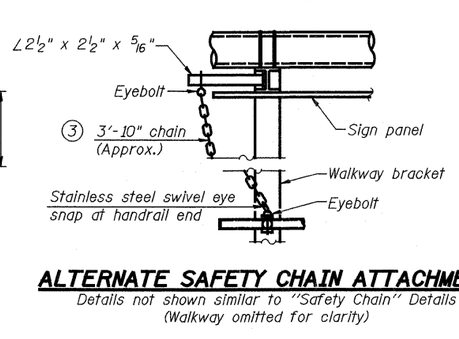
SECTION P-P



PLAN
DETAIL E HANDRAIL HINGE



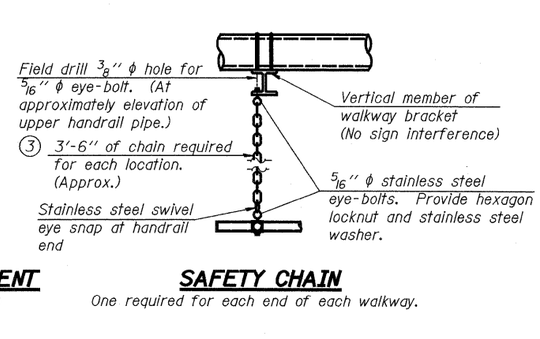
PLAN AT HANDRAIL JOINT
Details not shown same as "PLAN"



ALTERNATE SAFETY CHAIN ATTACHMENT
Details not shown similar to "Safety Chain" Details
(Walkway omitted for clarity)

(3) 3/16" Type 304L stainless steel chain, approximately 12 links per foot.

(4) Extrusions may be used in lieu of the details shown, with approval of the Engineer.



SAFETY CHAIN
One required for each end of each walkway.

OS-A-11 7-1-10

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
	PLOT SCALE =	DRAWN - PDB	REVISED -
	PLOT DATE =	CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

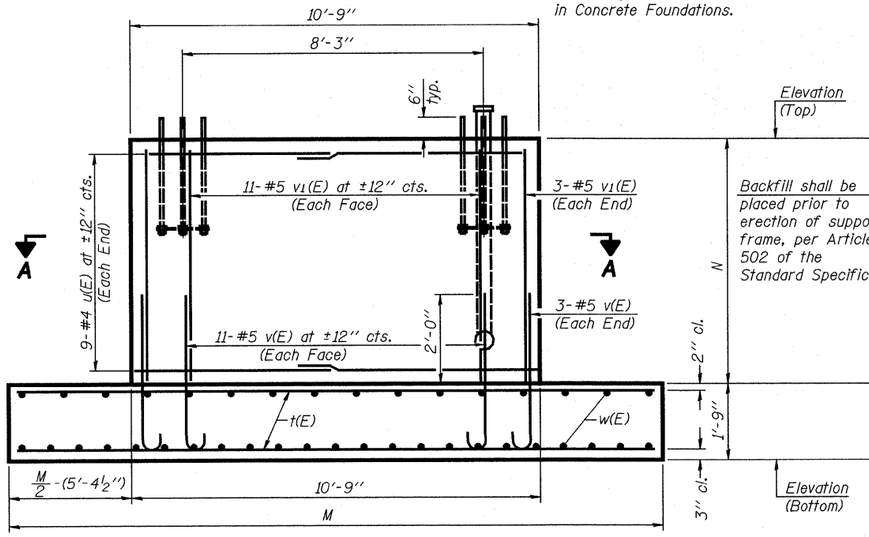
OVERHEAD SIGN STRUCTURES
ALUMINUM HANDRAIL DETAILS
SHEET NO. 29 OF 49 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	271
		CONTRACT NO. 74299		
	ILLINOIS FED. AID PROJECT			

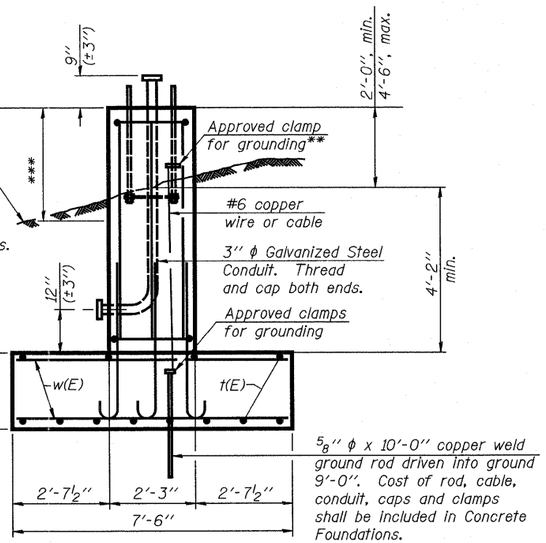
For anchor rod size and placement, see Support Frame Detail Sheet.

** Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

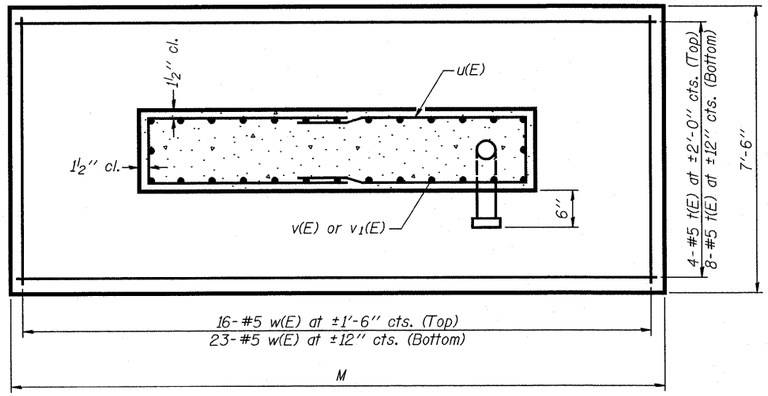
*** A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Concrete Foundations.



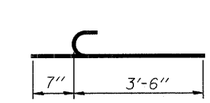
SIDE ELEVATION



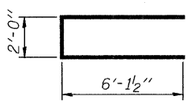
END ELEVATION



SECTION A-A



BAR v(E)



BAR u(E)

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
t(E)	12	#5	*	
u(E)	18	#4	14'-3"	
v(E)	28	#5	4'-1"	
v1(E)	28	#5	*	
w(E)	39	#5	7'-3"	

*Length of t(E) bar = (Dim. M) - 6"
v1(E) bar = (Dim. N) - 3"

Structure Number	Station	Left Foundation				Right Foundation				Class SI Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	N	M	Elevation Top	Elevation Bottom	N	M	
7S025I057R159.0	2131+68					597.12	588.21	7'-2"	21'-6"	16.9

Note:
The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.0 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

During construction, if footing length or width or wall height change by more than 12", or if reinforcement is changed, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

DETAILS FOR 10" ϕ SUPPORT FRAME

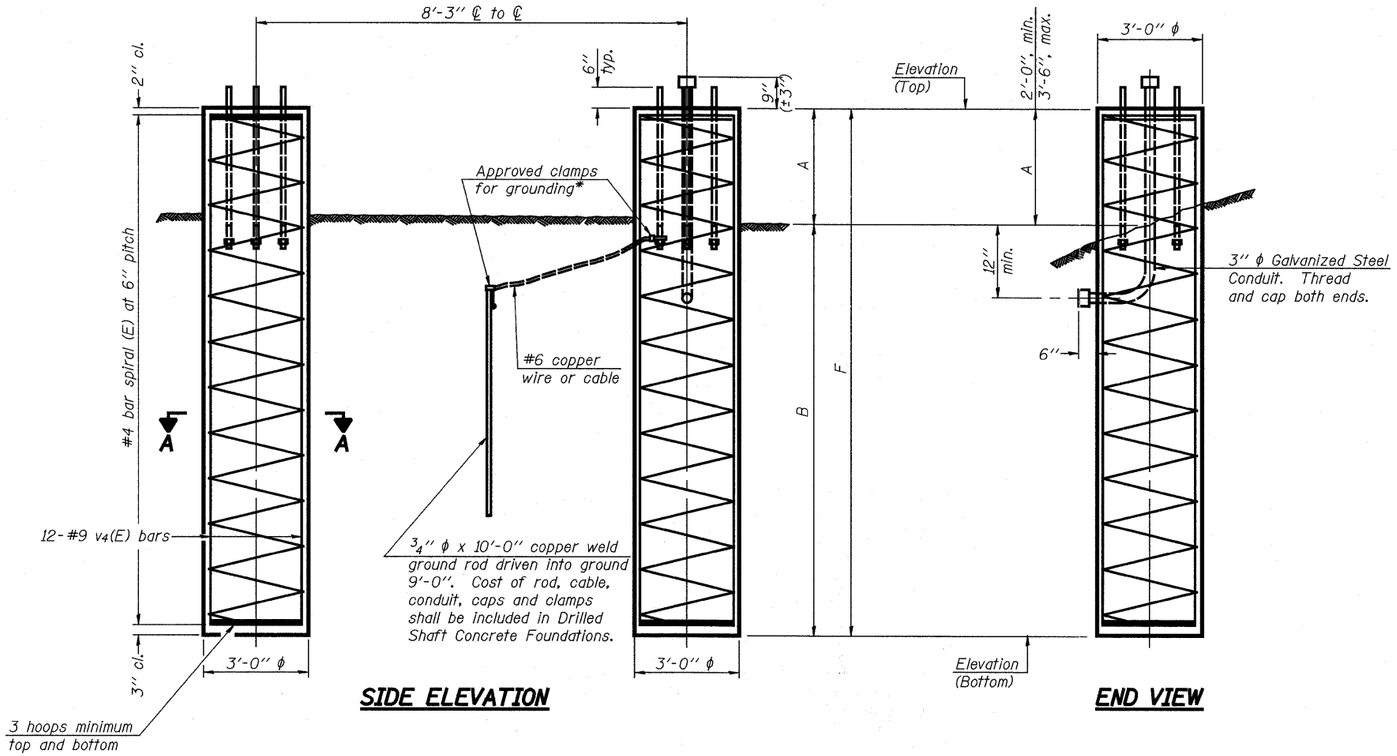
OS-F3 7-1-10

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
	PLOT SCALE =	DRAWN - PDB	REVISED -
	PLOT DATE =	CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

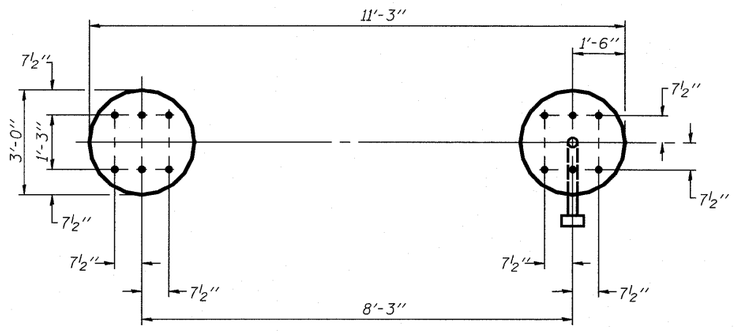
OVERHEAD SIGN STRUCTURES
SPREAD FOOTING DETAILS
SHEET NO. 30 OF 49 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	272
		CONTRACT NO. 74299		
		ILLINOIS FED. AID PROJECT		



SIDE ELEVATION

END VIEW



PLAN

For anchor rod size and placement, see Support Frame Detail Sheet.

* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	——
#4 bar spiral (E) - see Side Elevation				

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

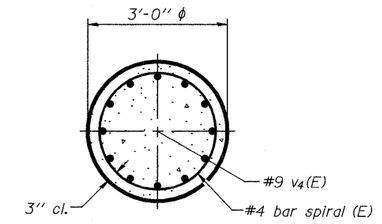
No sonotubes or decomposable forms shall be used below the lower conduit entrance.

Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



SECTION A-A

DETAILS FOR 10" ϕ SUPPORT FRAME TYPE I-A or II-A TRUSS

Structure Number	Station	Left Foundation					Right Foundation					Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top	Elevation Bottom	A	B	F	
7S025I057L159.6	2161+20	570.13	550.63	3'-0"	16'-6"	19'-6"	-	-	-	-	-	10.3
7S025I057L160.7	2219+50	605.69	585.19	3'-0"	17'-6"	20'-6"	-	-	-	-	-	10.8
7S025I057R161.3	2249+25	603.93	584.43	3'-0"	16'-6"	19'-6"						10.3
7S025I057L160.4	26+98	608.30	588.80	3'-0"	16'-6"	19'-6"	610.06	590.56	3'-0"	16'-6"	19'-6"	20.6

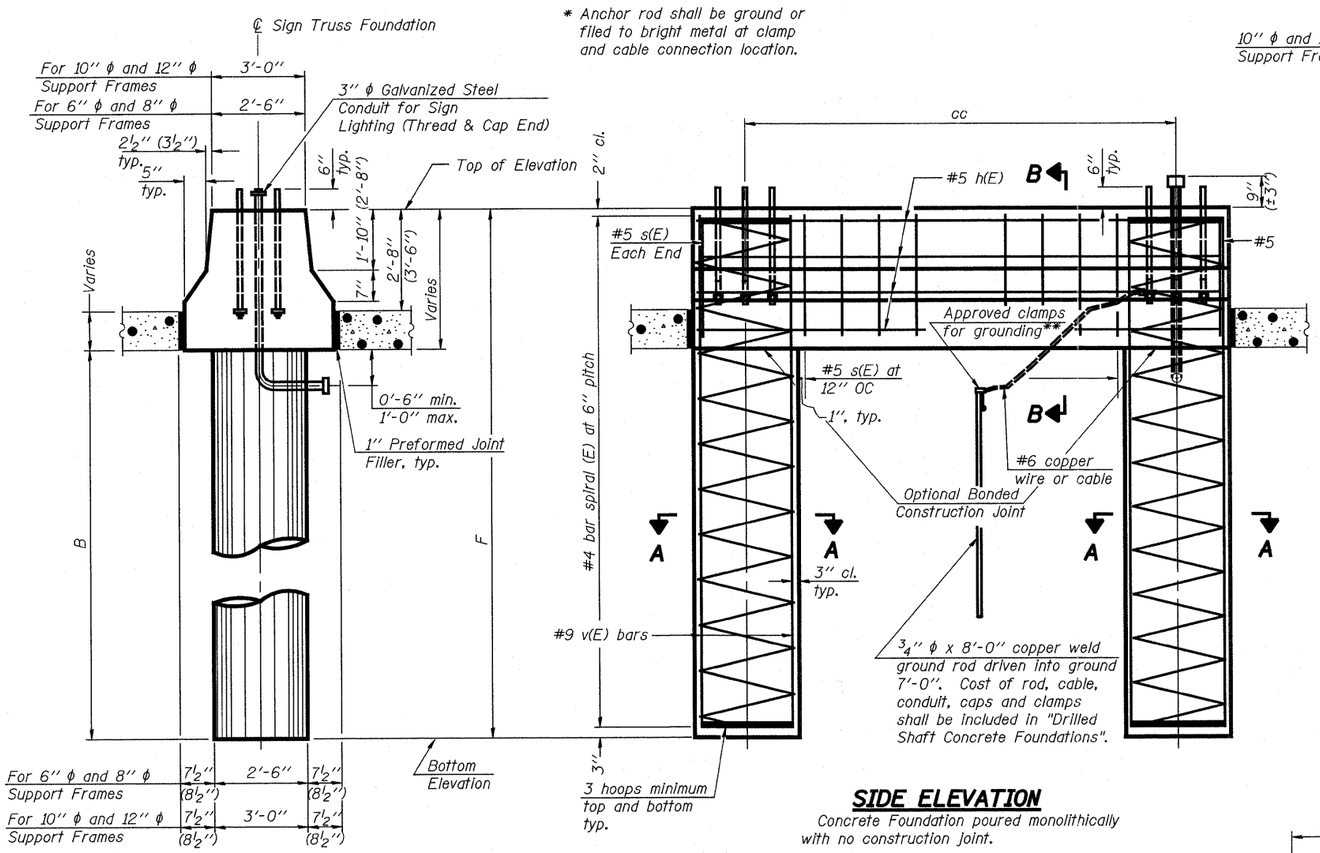
OS4-F3 7-1-10

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
	PLOT SCALE =	DRAWN - PDB	REVISED -
	PLOT DATE =	CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
DRILLED SHAFT DETAILS
SHEET NO. 31 OF 49 SHEETS

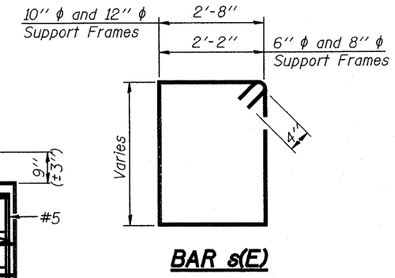
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	273
		CONTRACT NO. 74299		
	ILLINOIS FED. AID PROJECT			



SIDE ELEVATION

Concrete Foundation poured monolithically with no construction joint.

END VIEW



BAR s(E)

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance.

Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

BAR LIST - EACH FOUNDATION

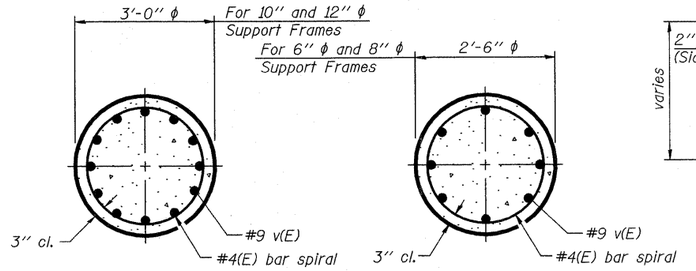
Bar	Number	Size	Length	Shape
h(E)	10	#5	M less 4"	
s(E)	Varies	#5	Varies	□
v(E)	16	#9	F less 0'-5"	
v(E)	24	#9	F less 0'-5"	
#4(E) bar spiral - see Side Elevation				

6" ϕ and 8" ϕ Support Frame

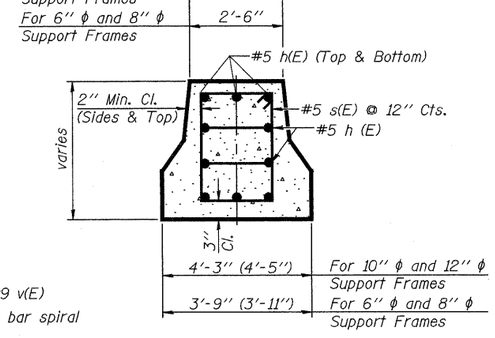
10" ϕ and 12" ϕ Support Frame

Pipe Support Frames	cc	M	a	a/2
6"ϕ	7'-0"	9'-6"	0'-11"	5½"
8"ϕ	7'-6"	10'-0"	1'-1½"	6¾"
10"ϕ	8'-3"	11'-3"	1'-3"	7½"
12"ϕ	9'-0"	12'-0"	1'-6"	9"

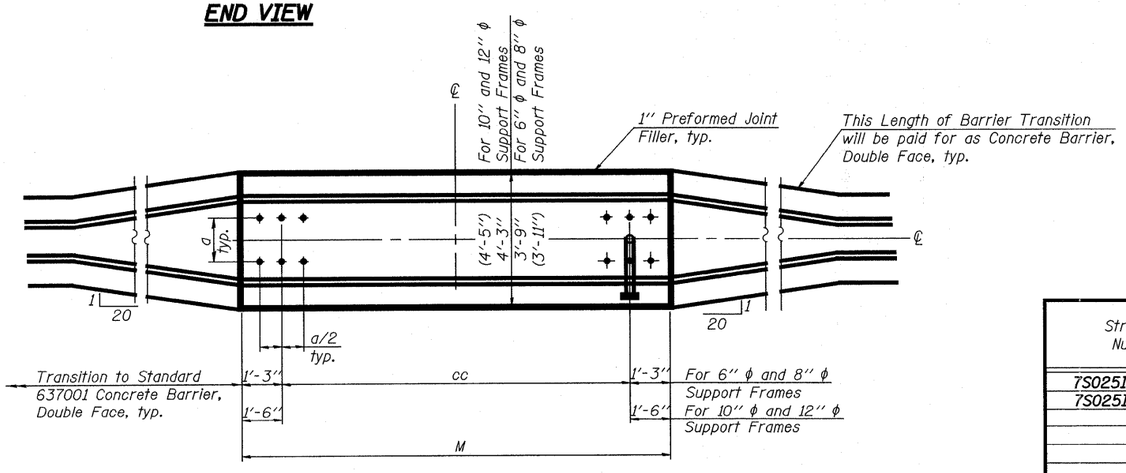
All dimensions in parenthesis are for 42" high barrier.



SECTION A-A



SECTION B-B



PLAN

Structure Number	Station	Left Foundation				Right Foundation				Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
7S025I057L160.7	2219+50					606.49	585.74	16'-9"	20'-9"	15.9
7S025I057R161.3	2249+25	606.32	585.82	16'-6"	20'-6"					15.8

OS4-MED 7-1-10

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
	PLOT SCALE =	DRAWN - PDB	REVISED -
	PLOT DATE =	CHECKED - BRM	REVISED -

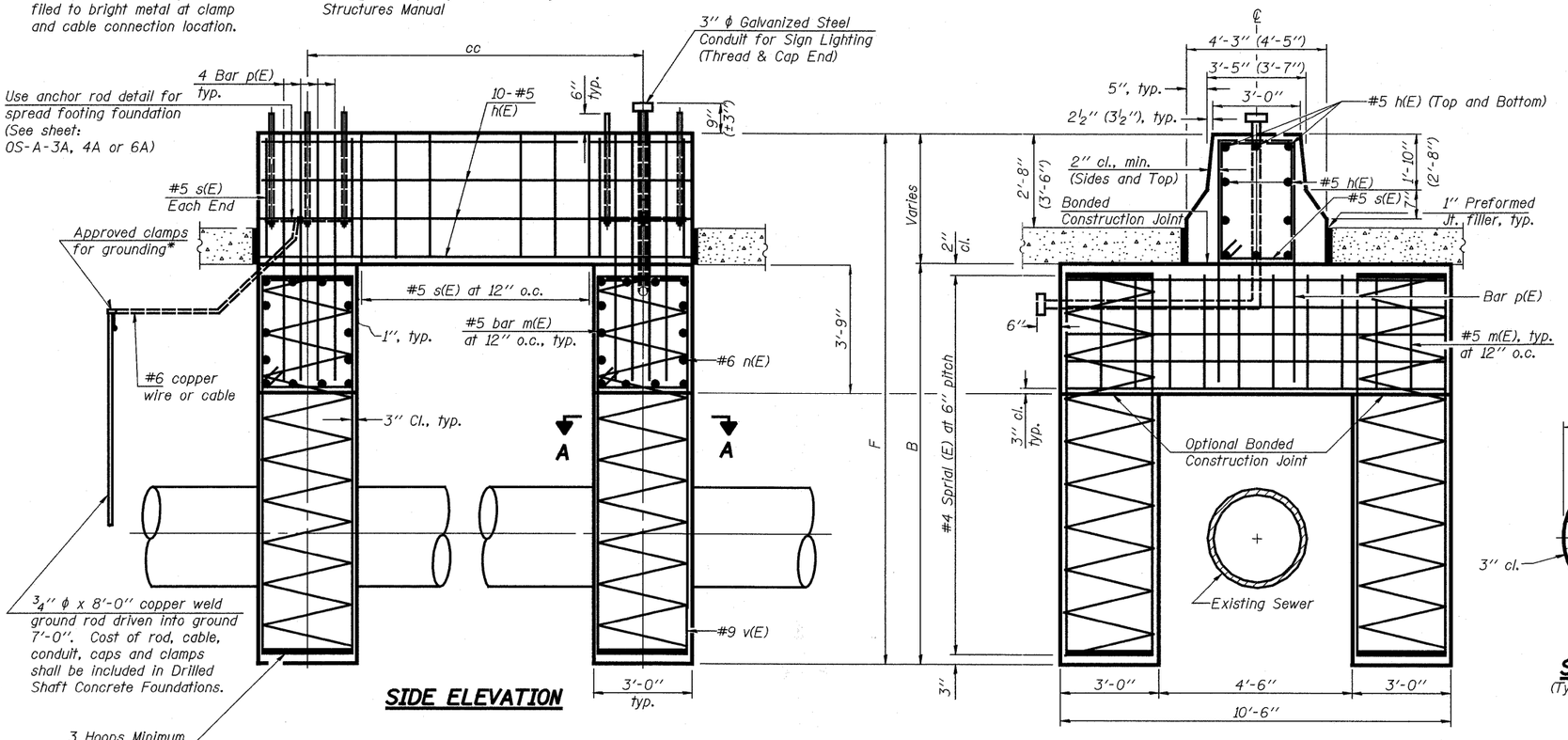
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
MEDIAN SUPPORT FOUNDATION DETAILS
SHEET NO. 32 OF 49 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINBHAM	1098	274
		CONTRACT NO. 74299		
	ILLINOIS FED. AID PROJECT			

* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

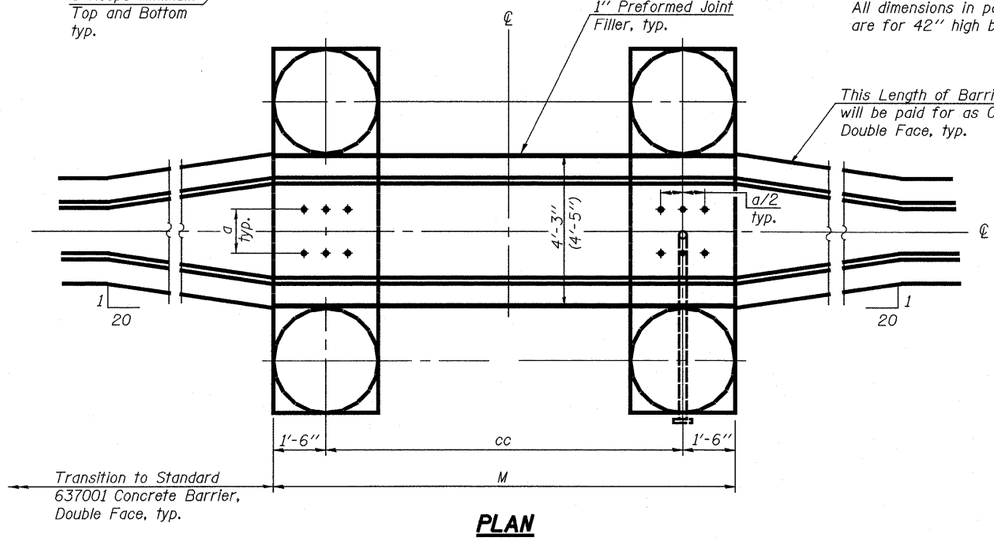
** B = ½ the depth given in the Sign Structures Manual



SIDE ELEVATION

END VIEW

(Anchor rods not shown)



PLAN

All dimensions in parenthesis are for 42" high barrier.

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

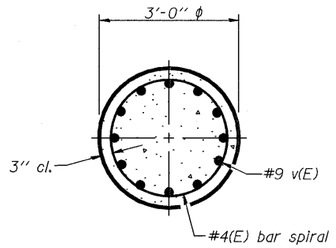
No sonotubes or decomposable forms shall be used below the lower conduit entrance.

Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



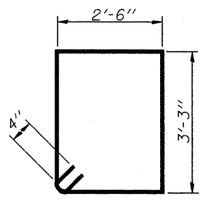
SECTION A-A

(Typical for 4 Shafts)

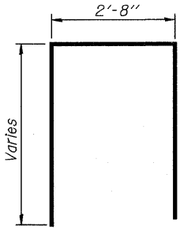
BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
h(E)	10	#5	M less 4"	—
s(E)	Varies	#5	Varies	□
v(E)	48	#9	B less 0'-5"	—
m(E)	22	#5	12'-0"	□
n(E)	28	#6	10'-0"	—
p(E)	8	#5	Varies	⊓
#4 Bar Spiral - See Side Elevation				

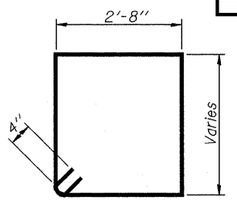
Pipe Support Frames	cc	M	a	a/2
6"ϕ	7'-0"	9'-6"	0'-11"	5½"
8"ϕ	7'-6"	10'-0"	1'-1½"	6¾"
10"ϕ	8'-3"	11'-3"	1'-3"	7½"
12"ϕ	9'-0"	12'-0"	1'-6"	9"



BAR m(E)



BAR p(E)



BAR s(E)

Structure Number	Station	Left Foundation				Right Foundation				Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
7S025I057R159.0	2131+68	598.91	584.57	10'-4"	14'-8"	-	-	-	-	22.7
7S025I057L159.6	2161+20	-	-	-	-	571.96	556.05	11'-11"	15'-11"	24.4

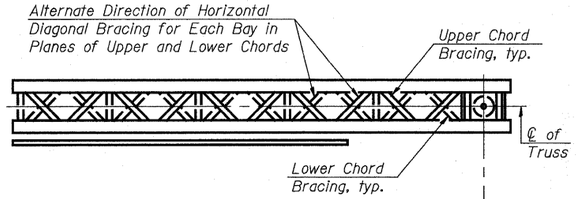
OS4-MED2 7-1-10

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
	PLOT SCALE =	DRAWN - PDB	REVISED -
	PLOT DATE =	CHECKED - BRM	REVISED -

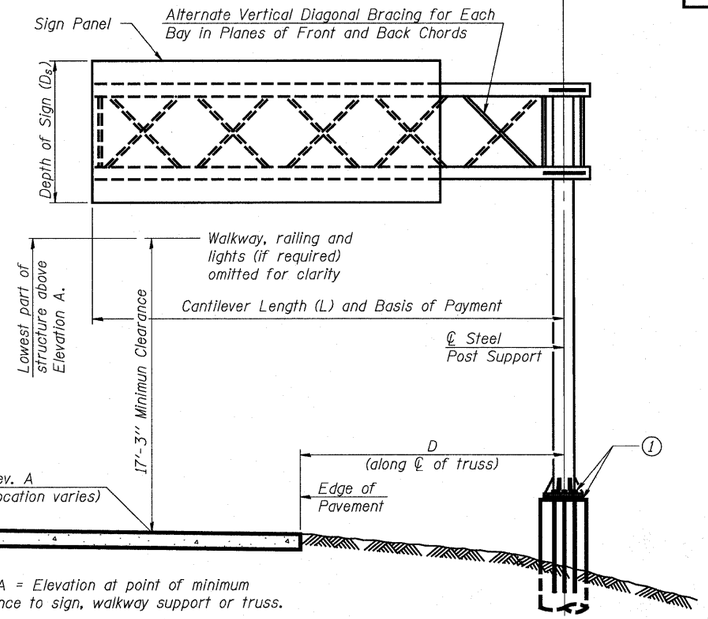
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
MEDIAN SUPPORT FOUNDATION DETAILS II
SHEET NO. 33 OF 49 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	275
		CONTRACT NO. 74299		
		ILLINOIS FED. AID PROJECT		



TYPICAL PLAN
(Walkway not shown)



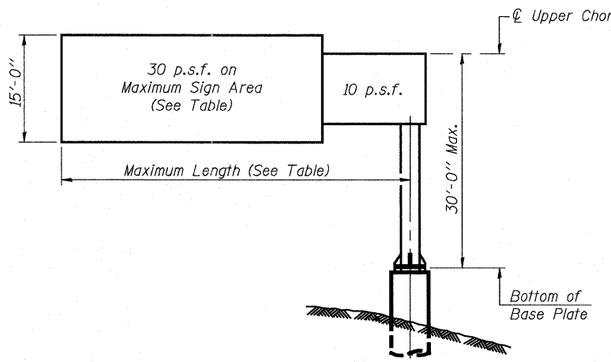
Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

TYPICAL ELEVATION
Looking in Direction of Traffic

Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure.

Structure Number	Station	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	D_s	Total Sign Area
7C025I057R159.6	2165+19	II-C-A	30'-0"	568.75	18'-0"	13'-6"	195.75 SF
7C025I057R159.8	2176+00	II-C-A	30'-0"	571.75	18'-0"	11'-0"	154.0 SF
7C025I057L159.9	2178+90	II-C-A	30'-0"	575.50	18'-0"	14'-0"	206.5 SF

Truss Type	Maximum Sign Area	Maximum Length
I-C-A	170 Sq. Ft.	25 Ft.
II-C-A	340 Sq. Ft.	30 Ft.
III-C-A	400 Sq. Ft.	40 Ft.



DESIGN WIND LOADING DIAGRAM
Parameters shown are basis for I.D.O.T. Standards Installations not within dimensional limits shown require special analysis for all components.

Note:
Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and protection of the trusses.

(1) *After adjustments to level truss and insure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.*

* *If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.*

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:
Field Units
f'_c = 3,500 p.s.i.
fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specificiations.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.
All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.*
The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (If Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to AASHTO M314 Gr. 105 with a minimum Charpy V-Notch (CVN) energy of 15 lb.-ft. at 10° F.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE I-C-A	Foot	
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE II-C-A	Foot	90
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	Foot	
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	58.5
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	39.9

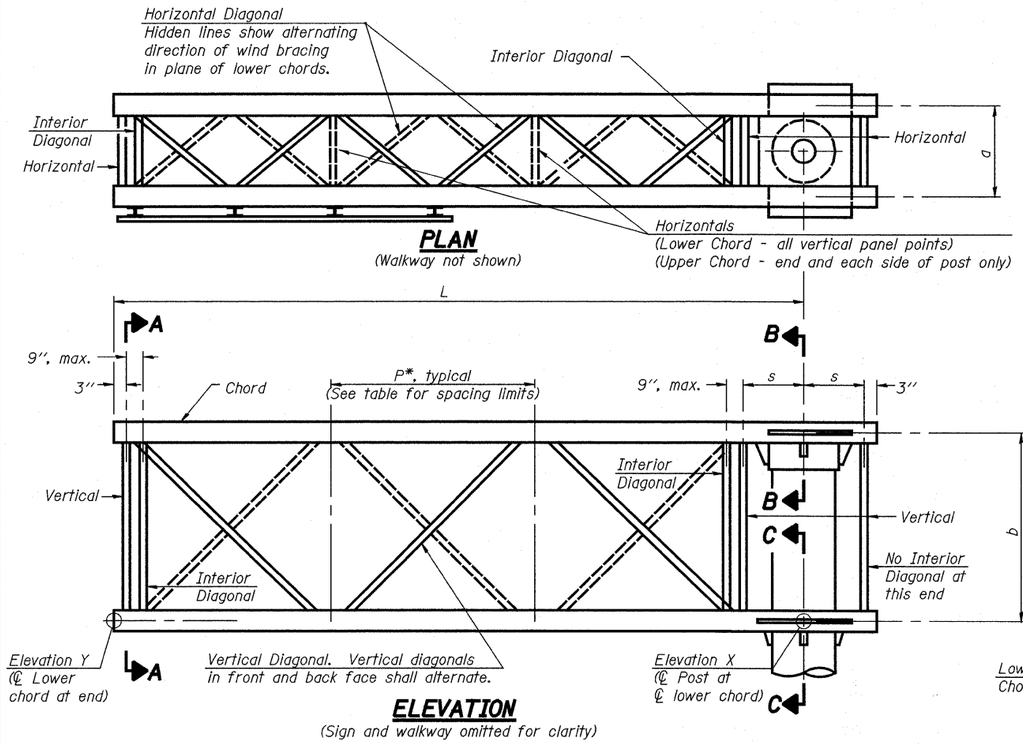
OSC-A-1 7-1-10

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED - 4-27-11
		CHECKED - JWS	REVISED -
	PLOT SCALE =	DRAWN - PDB	REVISED -
	PLOT DATE =	CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES – GENERAL PLAN & ELEVATION
ALUMINUM TRUSS & STEEL POST
SHEET NO. 34 OF 49 SHEETS

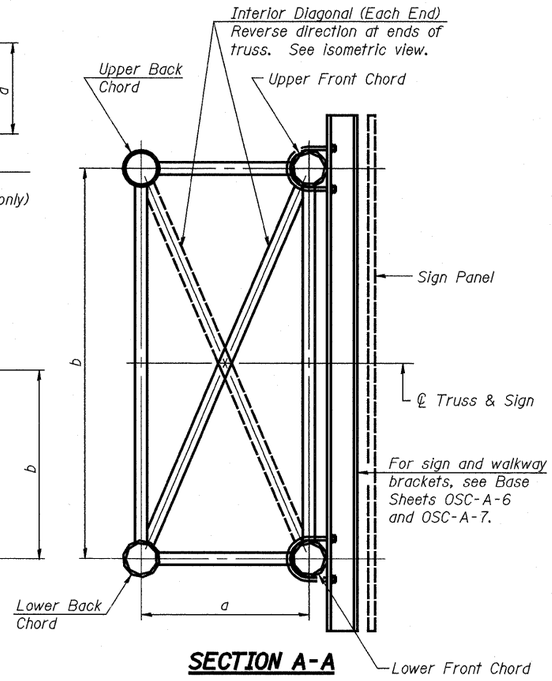
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	276
		CONTRACT NO. 74299		
	ILLINOIS FED. AID PROJECT			



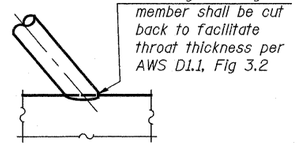
TYPICAL TRUSS UNIT

For Section B-B and Section C-C, see Base Sheet OSC-A-3.

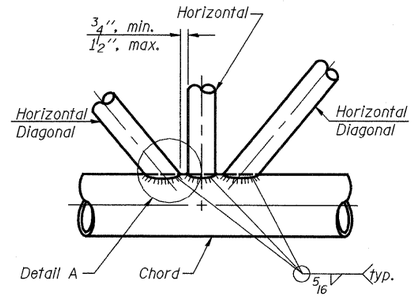
Note:
There are twice as many horizontal diagonals as there are vertical diagonals.



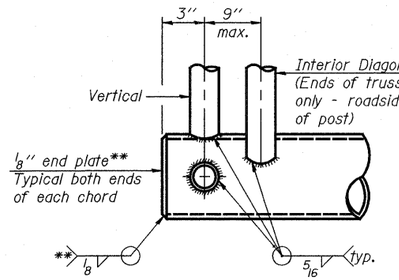
SECTION A-A



DETAIL A

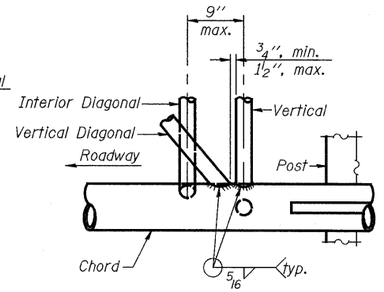


TRUSS INTERIOR JOINT DETAIL



CANTILEVER END JOINT DETAIL

** Contractor may alternatively use standard aluminum drive-fit cap to close ends.



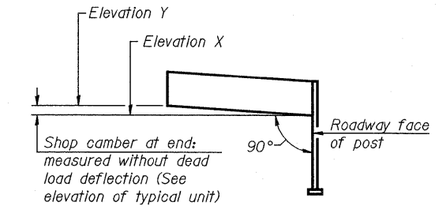
POST END JOINT DETAIL

TRUSS UNIT TABLE

Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals	
					O.D.	Wall	O.D.	Wall
I-C-A	24"	54"	16"	36" min. to 48" max.	5"	5/16"	2 1/2"	5/16"
II-C-A	36"	66"	21"	42" min. to 54" max.	6 1/2"	5/16"	3 1/4"	5/16"
III-C-A (35' Max.)	36"	84"	21"	48" min. to 66" max.	7"	3/8"	3 1/2"	3/8"
III-C-A (>35' to 40')	36"	84"	21"	48" min. to 66" max.	8"	3/8"	3 1/2"	3/8"

$$*P = \frac{L - s - 3''}{\#\ Panels}$$

Structure Number	Station	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
7C025I057R159.6	2165+19	II-C-A	28'-0"	7	4'-0"
7C025I057R159.8	2176+00	II-C-A	28'-0"	7	4'-0"
7C025I057L159.9	2178+90	II-C-A	28'-0"	7	4'-0"



CAMBER DIAGRAM

(For Fabrication Only)

SHOP CAMBER TABLE

Unit Length (L)	Shop Camber at End
15'	1 1/2"
16'-17'	1 3/4"
18'-20'	2"
21'-22'	2 1/4"
23'-25'	2 1/2"
26'-27'	2 3/4"
28'-30'	3"
31'-32'	3 1/4"
33'-35'	3 1/2"
36'-37'	4"
38'-40'	4 1/2"

ISOMETRIC VIEW TYPICAL TRUSS UNIT

ASTM B221 Alloy 6061 Temper T6

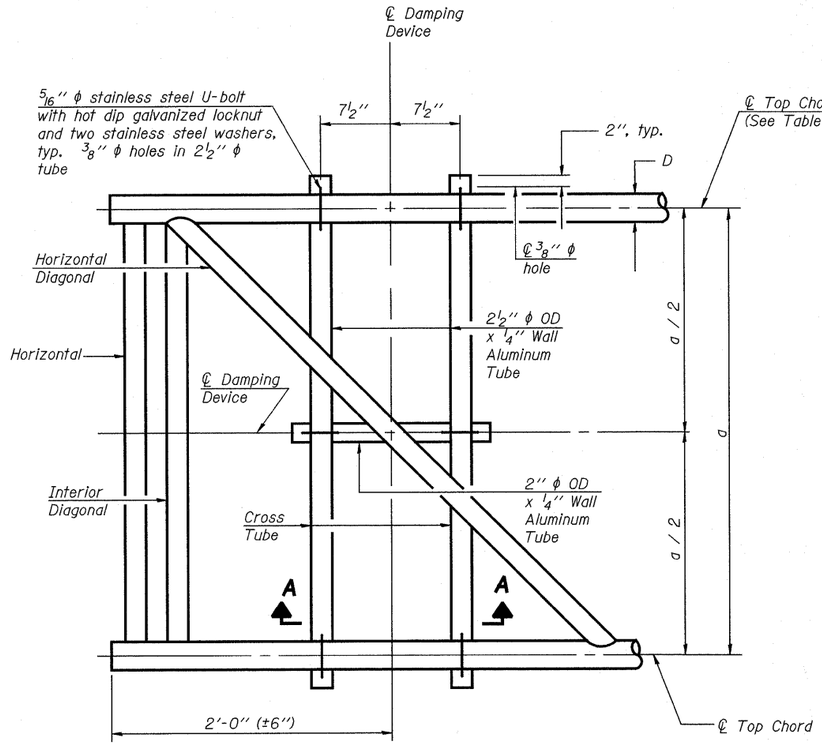
OSC-A-2 7-1-10

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
	PLOT SCALE =	DRAWN - PDB	REVISED -
	PLOT DATE =	CHECKED - BRM	REVISED -

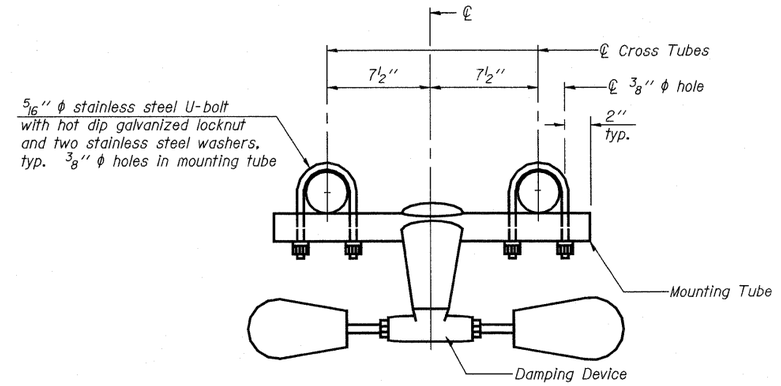
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES – TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST
SHEET NO. 35 OF 49 SHEETS

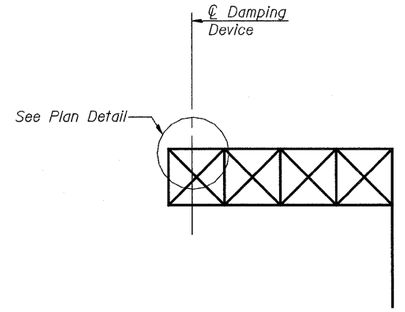
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	277
		CONTRACT NO. 74299		
	ILLINOIS FED. AID PROJECT			



PLAN DETAIL



TRUSS DAMPING DEVICE CONNECTION DETAIL



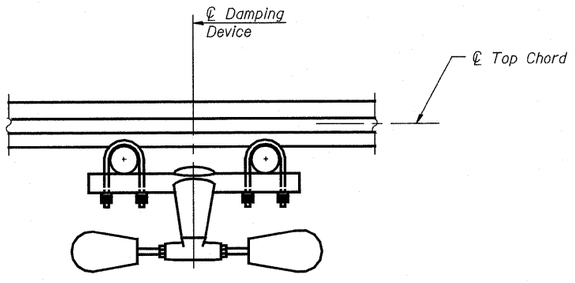
ELEVATION

Aluminum Cantilever Sign Structure

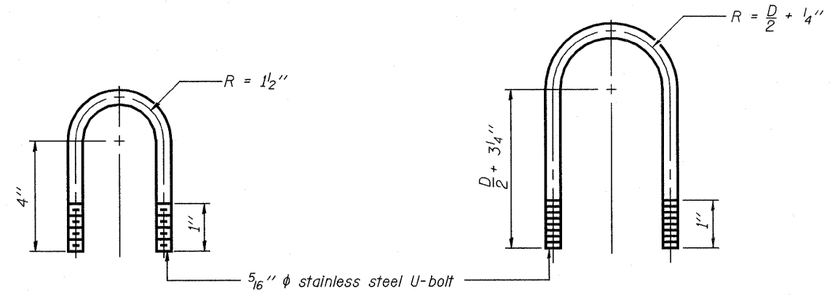
GENERAL NOTES

Damper: One damper per truss. (31 lbs. Stockbridge-Type Aluminum-29" minimum between ends of weights)

Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6



SECTION A-A



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL

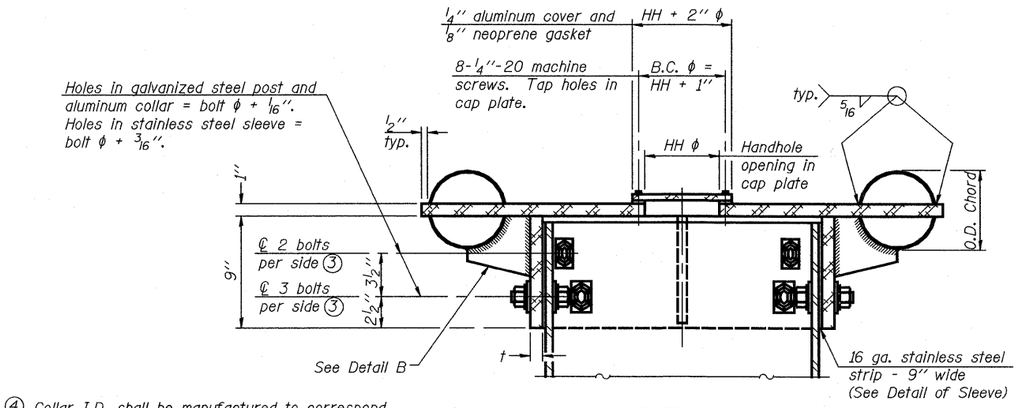
(Typical)

TOP CHORD TO CROSS TUBE U-BOLT DETAIL

(Typical)

OSC-A-D 7-1-10

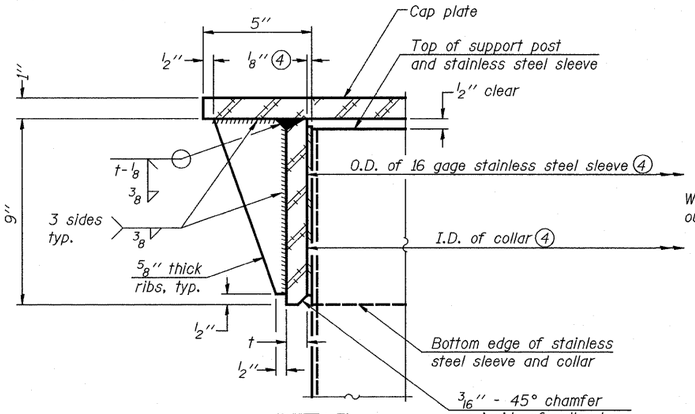
FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CANTILEVER SIGN STRUCTURE DAMPING DEVICE	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JWS	REVISED -			57/70	(25-3,4)R	EFFINGHAM	1098	278
	PLOT SCALE =	DRAWN - PDB	REVISED -						CONTRACT NO. 74299	
	PLOT DATE =	CHECKED - BRM	REVISED -		SHEET NO. 36 OF 49 SHEETS			ILLINOIS	FED. AID PROJECT	



SECTION B-B

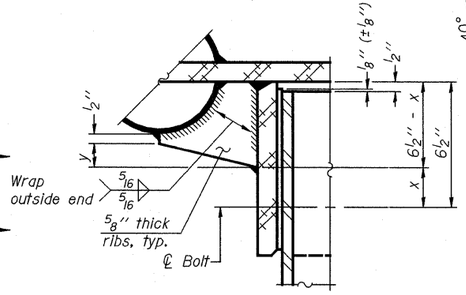
(4) Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus 1/8" (±1/16"). Maximum gap between post and collar at any location equals 1/8" before tightening bolts.

Bolts, washers (including contoured washers), and locknuts shall be stainless steel.



DETAIL A

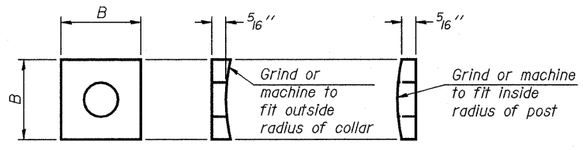
(Two locations)



DETAIL B

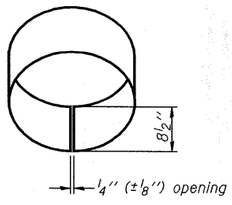
Two locations

(For details not shown, see Detail C)



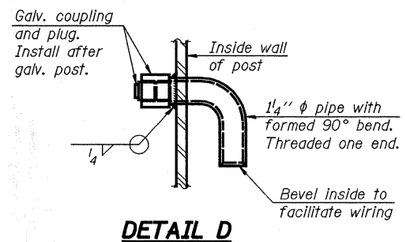
CONTOURED WASHERS

Bolt Size	Contoured Washers	
	Hole Dia.	B
7/8"	1"	2 1/2"
1"	1 1/8"	3"
1 1/4"	1 3/8"	3 1/4"

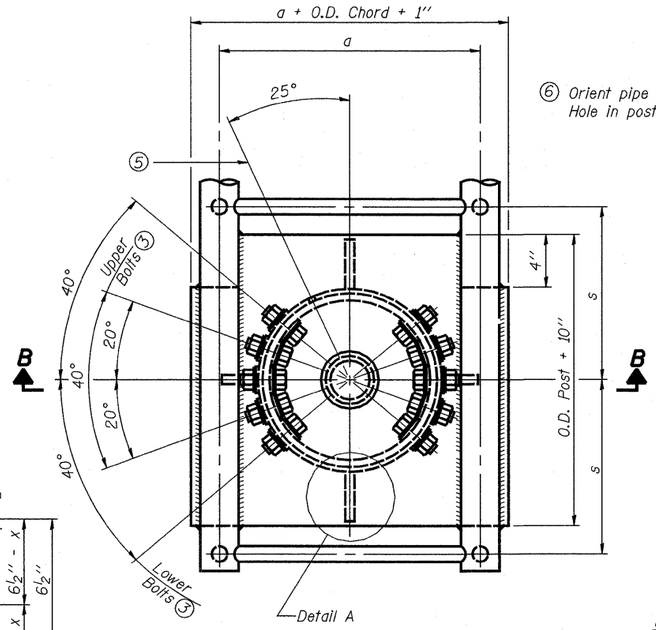


DETAIL OF STAINLESS STEEL SLEEVE

Weld to post after galvanizing. (Prepare post surface to insure tight, uniform fit and allow welding.) Welds to be 1 1/2" long at 6" cts. along top edge and at 1/4" opening.



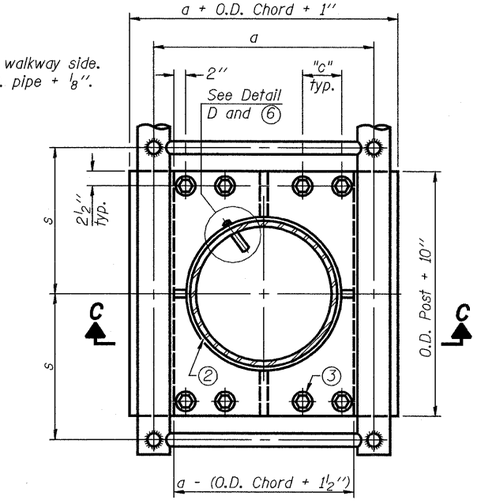
DETAIL D



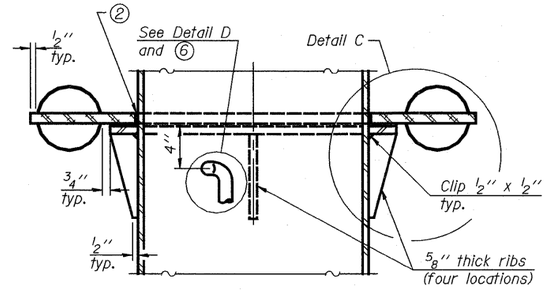
PLAN VIEW - TOP OF COLUMN

(5) Optional full penetration weld in collar. (Two locations maximum....(180° apart)....X-ray or UT 100%)

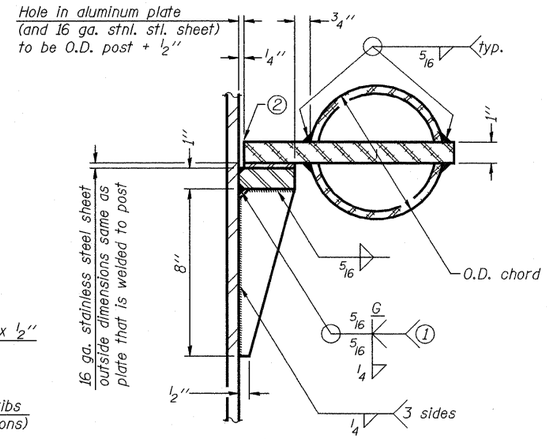
(6) Orient pipe toward walkway side. Hole in post = O.D. pipe + 1/8".



SECTION THRU POST ABOVE LOWER CHORDS



SECTION C-C



DETAIL C

Truss Type	Post Size	Upper & Lower Connection Bolt Diameter (3)	Lower Juncture Bolt Spacing Dimension "c" (3)	Opening in Cap Plate "HH"	Collar Thickness (t)	Side Ribs	
						x	y
I-C-A	16" ϕ (83#/')	7/8"	3 1/4"	8"	5/8"	1 3/4"	2 1/4"
II-C-A	24" ϕ (125#/')	1"	3 1/2"	12"	7/8"	2"	1 1/4"
III-C-A (35' max.)	24" ϕ (125#/')	1 1/4"	3 1/2"	12"	7/8"	2"	1"
III-C-A (>35' to 40')	24" ϕ (171#/')	1 1/4"	3 1/2"	12"	7/8"	2"	1"

(1) Grind top if required to fully seat aluminum plate and stainless steel sheet.

(2) After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in Overhead Sign Structure Cantilever.

(3) Upper and lower connection bolts in collar and bolts at lower chord connection shall be high strength with matching locknuts. Connection bolts shall have 2 stainless steel flat washers each.

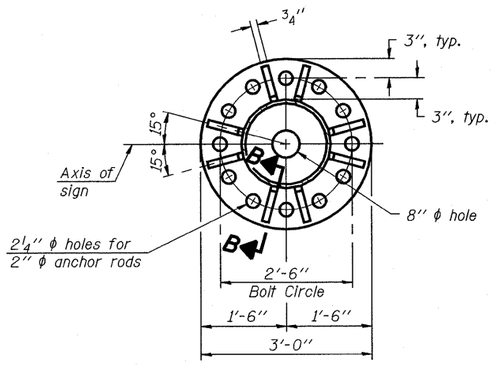
OSC-A-3 7-1-10

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
	PLOT SCALE =	DRAWN - PDB	REVISED -
	PLOT DATE =	CHECKED - BRM	REVISED -

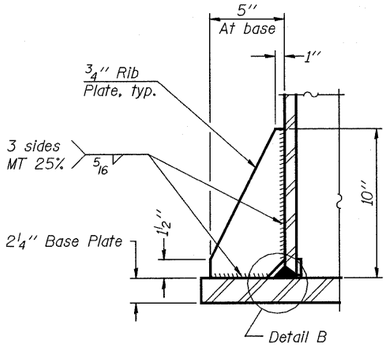
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - JUNCTURE DETAILS
ALUMINUM TRUSS & STEEL POST
SHEET NO. 37 OF 49 SHEETS

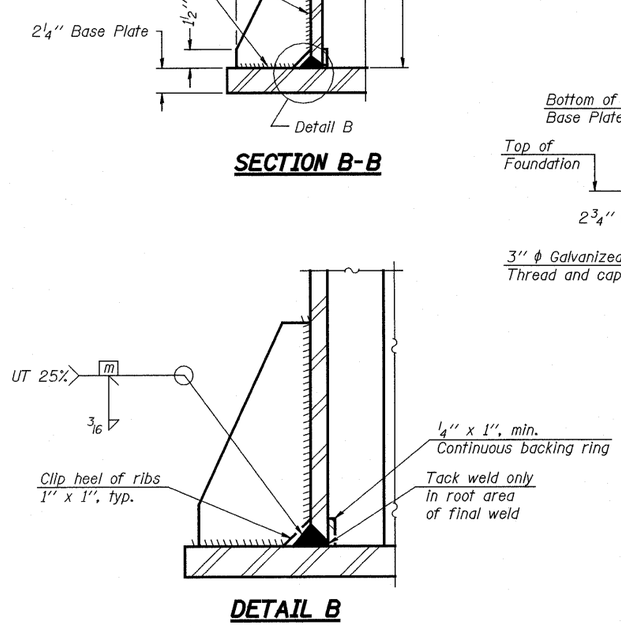
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	279
		CONTRACT NO. 74299		
	ILLINOIS FED. AID PROJECT			



SECTION A-A

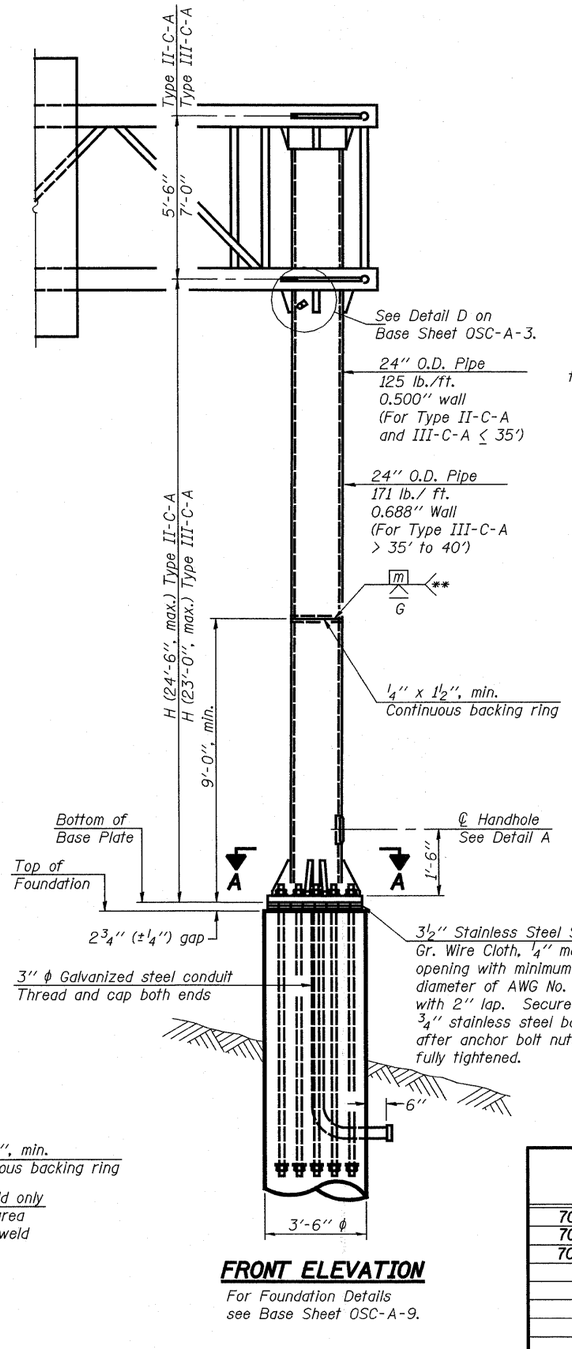


SECTION B-B



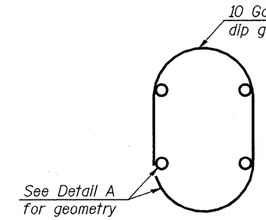
DETAIL B

(Typical rib)

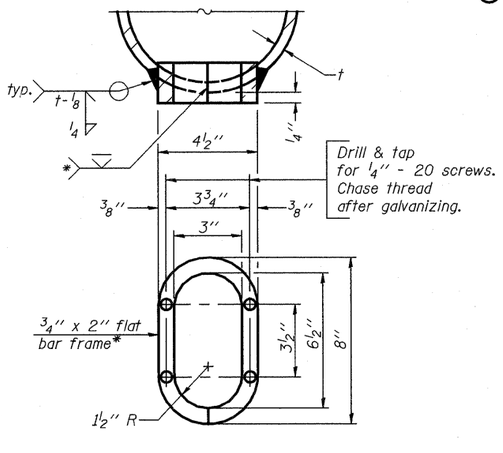


FRONT ELEVATION

For Foundation Details see Base Sheet OSC-A-9.



HANDHOLE COVER

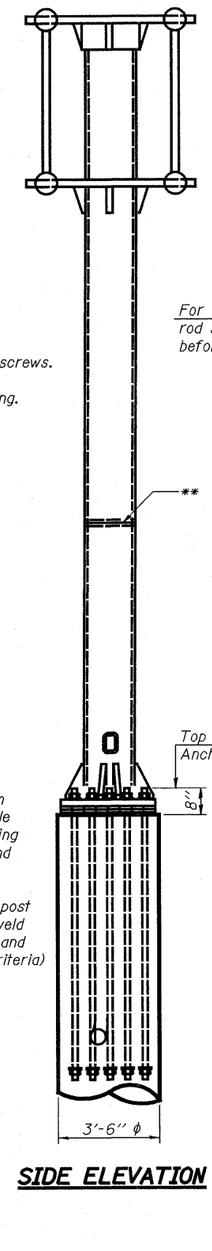


Provide 8" x 4 1/2" cover. Outside corners = 2 1/4" radius. Provide 4-5/16" ϕ holes in cover for 1/4" - 20 round head hot dip galvanized or stainless steel machine screws. (See cover details.)

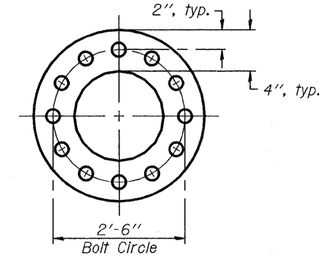
DETAIL A

* Bent bars may be butt welded top and bottom or bottom only. In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 μin or less.

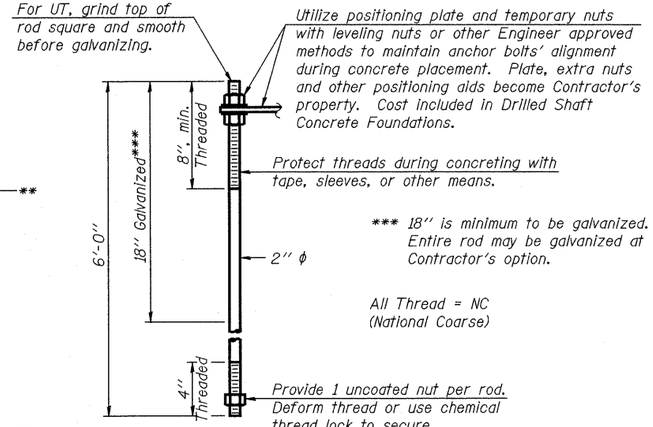
** Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.



SIDE ELEVATION



SUGGESTED POSITIONING PLATE



ANCHOR ROD DETAIL

Anchor rods shall conform to AASHTO M314 Grade 105 and meet Charpy V-Notch (CVN) energy of 15 lb.-ft. at 10° F. before galvanizing. Galvanize the upper 18" (minimum***) and associated M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide an unfinished nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with 200 lb.-ft. minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III inspector, qualified in accord with ANSI guidelines, using a straight beam, 1/2" ϕ 3.5 mhz. transducer, to insure no rejectable flaws exist in the upper 18" (tension criteria). Cost of testing included in Drilled Shaft Concrete Foundations.

Structure Number	Station	H
7C025I057R159.6	2165+19	22'-0"
7C025I057R159.8	2176+00	22'-0"
7C025I057L159.9	2178+90	21'-9"

Note: "H" based on 15'-0" or actual sign height, whichever is greater.

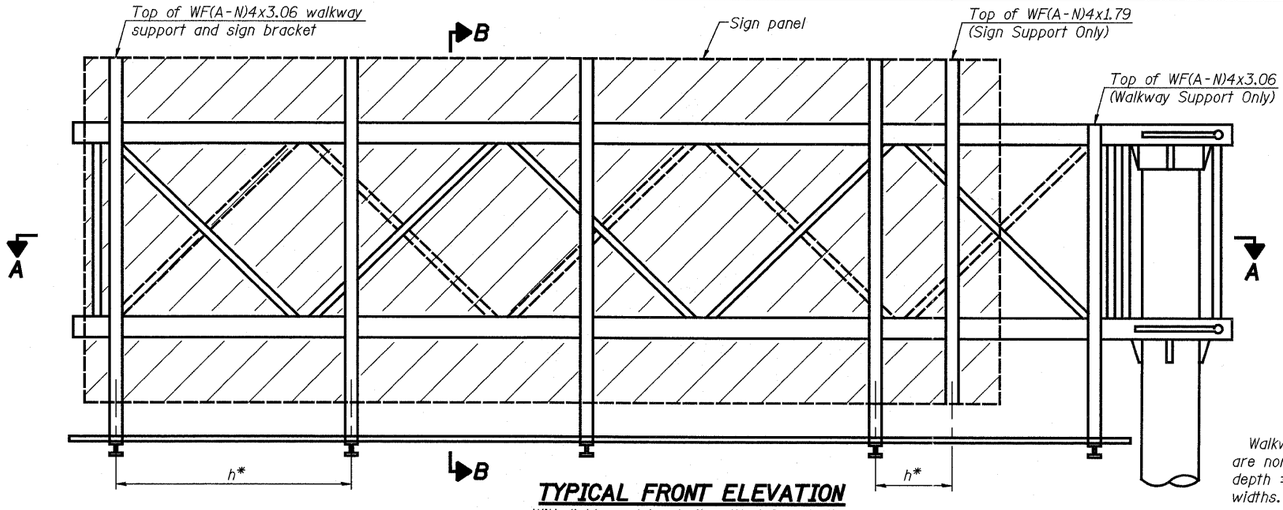
OSC-A-5 7-1-10

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
	PLOT SCALE =	DRAWN - PDB	REVISED -
	PLOT DATE =	CHECKED - BRN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - TYPE II-C-A & III-C-A
TRUSS SUPPORT POST - ALUMINUM TRUSS & STEEL POST
SHEET NO. 38 OF 49 SHEETS

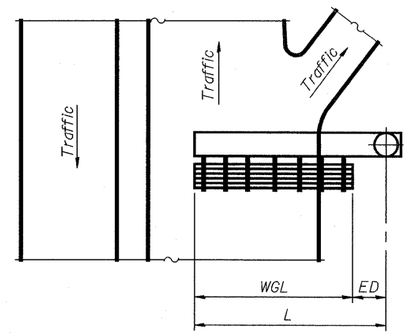
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	280
		CONTRACT NO. 74299		
		ILLINOIS FED. AID PROJECT		



TYPICAL FRONT ELEVATION

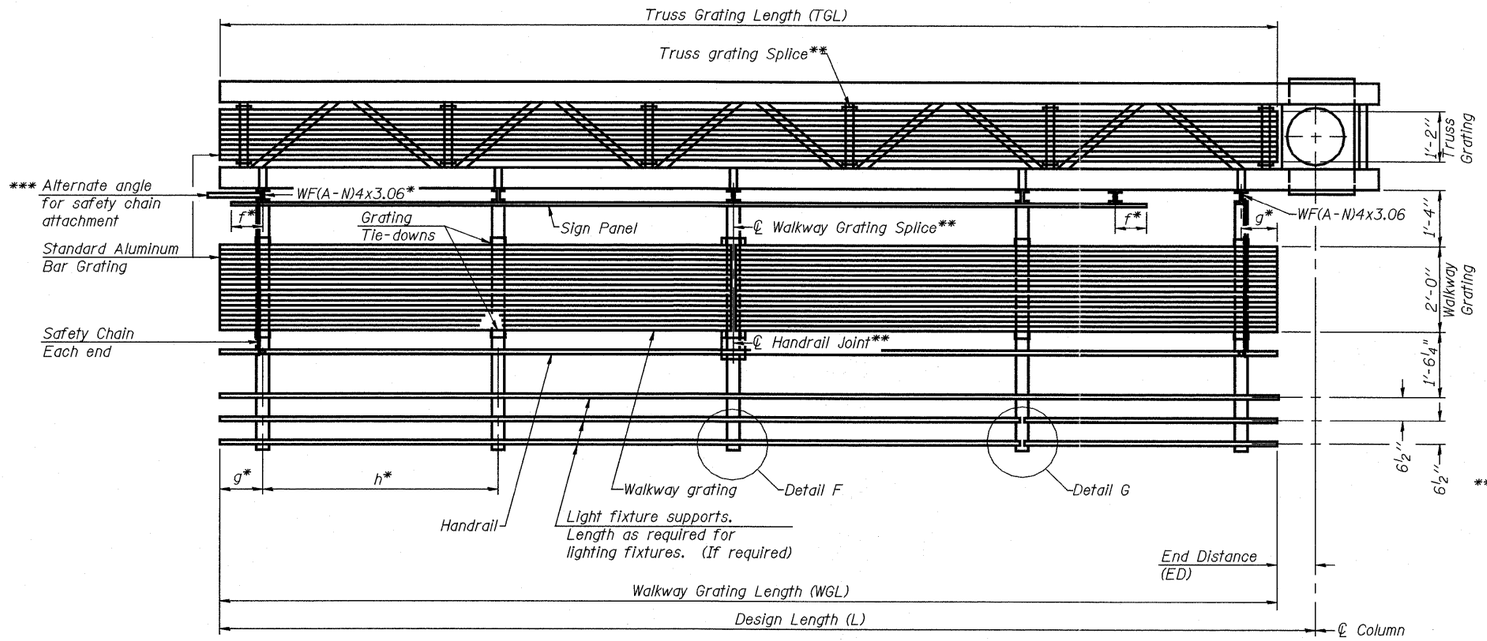
With lights and handrail omitted for clarity.

Walkway and truss grating dimensions are nominal and may vary (width ±½", depth ±½") based on available standard widths.



PLAN
WALKWAY AND HANDRAIL SKETCH

(Road plan beneath truss varies)



Structure Number	Station	WGL	ED	TGL
7C025I057R159.6	2165+19	19'-6"	10'-6"	28'-6"
7C025I057R159.8	2176+00	19'-6"	10'-6"	28'-6"
7C025I057L159.9	2178+90	19'-6"	10'-6"	28'-6"

Notes:

* Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to ℄ of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway to ℄ of nearest bracket)
h = 6'-0" maximum (℄ to ℄ sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)

*** If walkway bracket at safety chain location is behind sign, add angle to bracket. See alternate safety chain attachment on base sheet OSC-A-8

For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Base Sheet OSC-A-7.
For details of handrail, handrail joint, safety chain and Details F and G, see Base Sheet OSC-A-8.

Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in Overhead Sign Structure Cantilever.

SECTION A-A

Handrail and walkway grating shall span a minimum of three brackets between splices.
** Use and location of handrail joints or grating splices are optional, based on lengths needed and material availability.

$$TGL = L - \left(\frac{\text{Post O.D.}}{2} + 6''\right)$$

BRACKET TABLE

WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

OSC-A-6 7-1-10

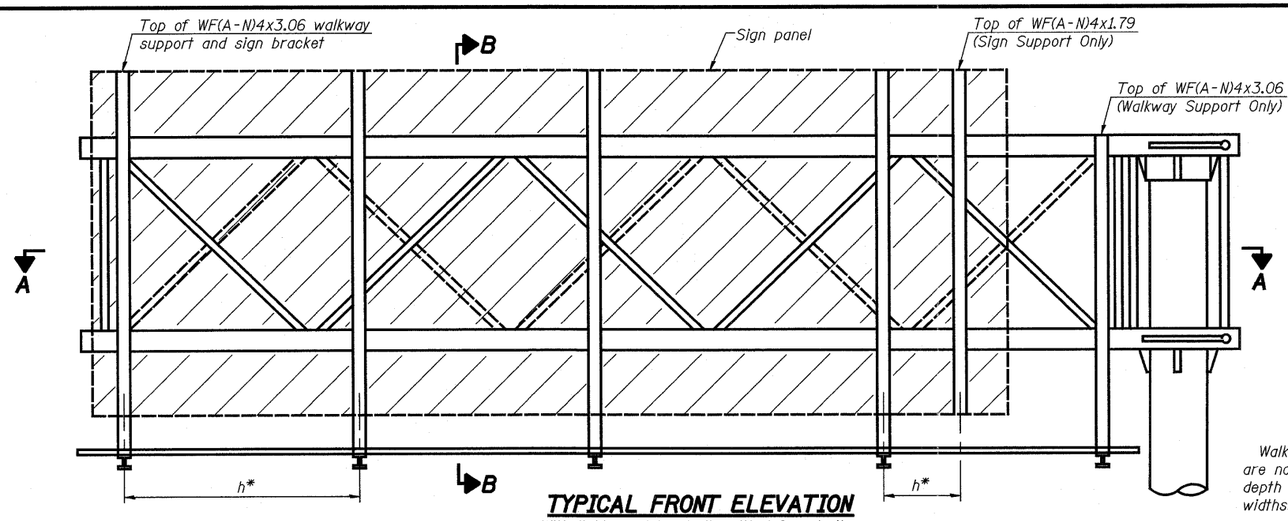
FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
	PLOT SCALE =	DRAWN - PDB	REVISED -
	PLOT DATE =	CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - ALUMINUM WALKWAY
DETAILS - ALUMINUM TRUSS & STEEL POST

SHEET NO. 39 OF 49 SHEETS

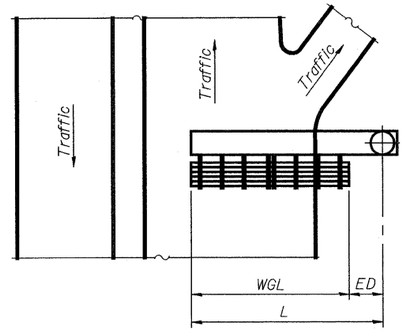
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	281
		CONTRACT NO. 74299		
	ILLINOIS FED. AID PROJECT			



TYPICAL FRONT ELEVATION

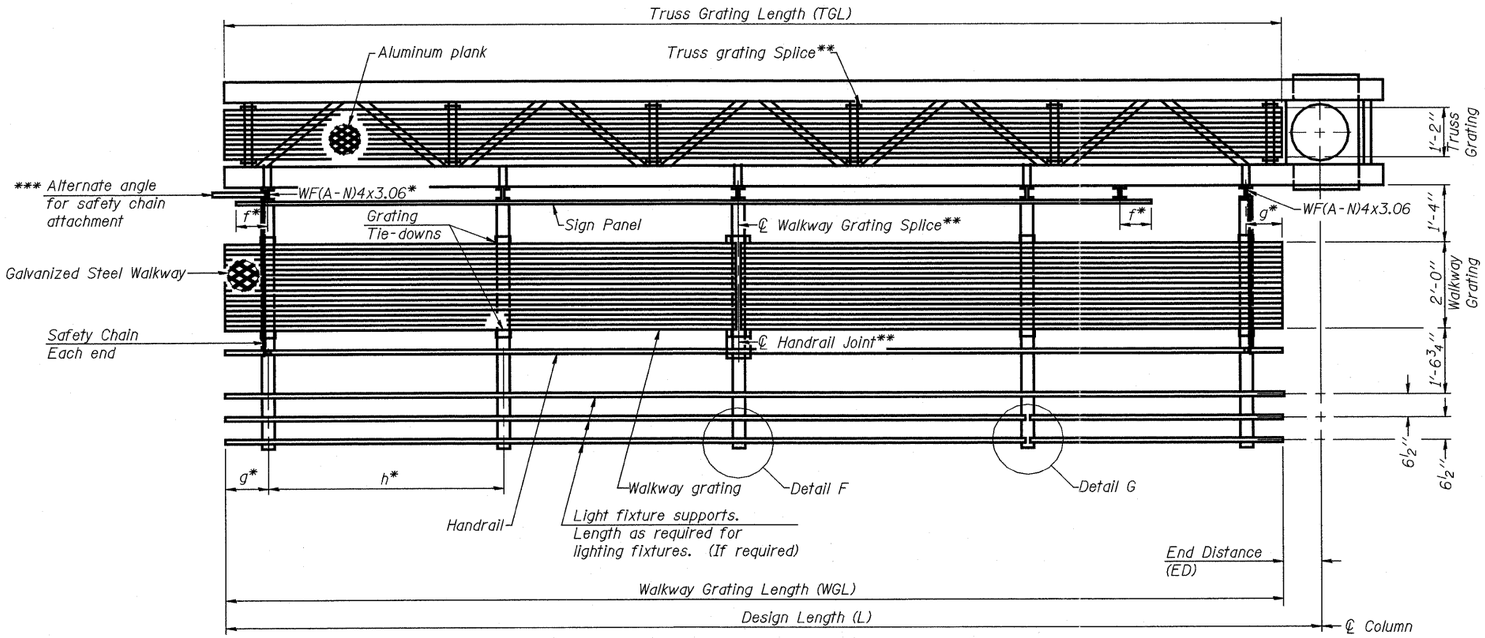
With lights and handrail omitted for clarity.

Walkway and truss grating dimensions are nominal and may vary (width ±½", depth ±½") based on available standard widths.



PLAN
WALKWAY AND HANDRAIL SKETCH

(Road plan beneath truss varies)



Structure Number	Station	WGL	ED	TGL
7C025I057R159.6	2165+19	19'-6"	10'-6"	28'-6"
7C025I057R159.8	2176+00	19'-6"	10'-6"	28'-6"
7C025I057L159.9	2178+90	19'-6"	10'-6"	28'-6"

Notes:

* Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to ℄ of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway to ℄ of nearest bracket)
h = 6'-0" maximum (℄ to ℄ sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)

*** If walkway bracket at safety chain location is behind sign, add angle to bracket. See alternate safety chain attachment on base sheet OSC-A-8.

For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Base Sheet OSC-A-7S.
For details of handrail, handrail joint, safety chain and Details F and G, see Base Sheet OSC-A-8.

SECTION A-A

Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in Overhead Sign Structure Cantilever.

Handrail and walkway grating shall span a minimum of three brackets between splices.
** Use and location of handrail joints or grating splices are optional, based on lengths needed and material availability.

$$TGL = L - \left(\frac{\text{Post O.D.}}{2} + 6''\right)$$

BRACKET TABLE

WF(A-N)4x1.79 or WF(A-N)4x3.06
ASTM B308, Alloy 6061-T6

Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

OSC-A-6S 7-1-10

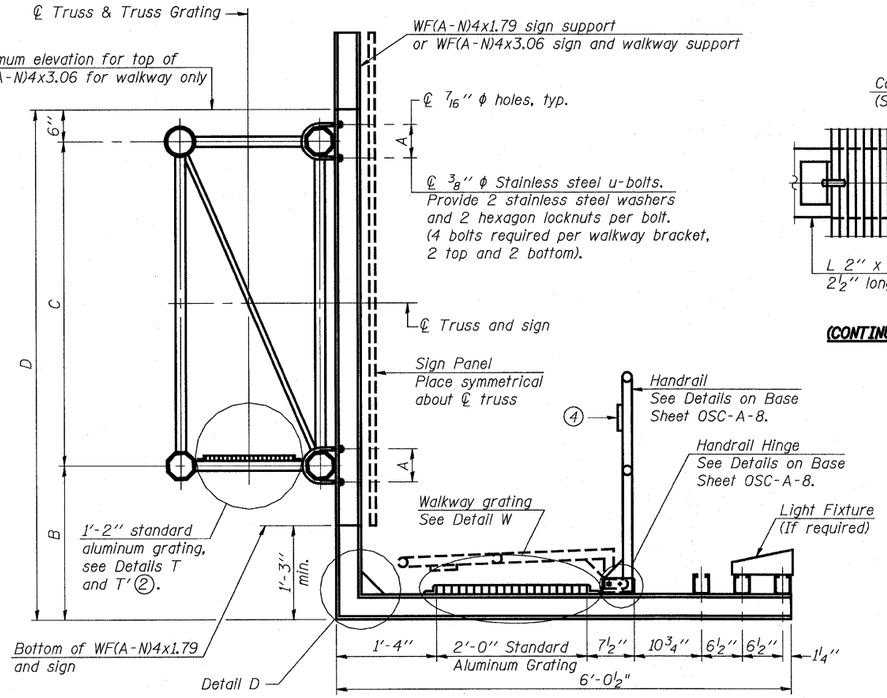
FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
	PLOT SCALE =	DRAWN - PDB	REVISED -
	PLOT DATE =	CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES – ALTERNATE STEEL
WALKWAY DETAILS – ALUMINUM TRUSS & STEEL POST

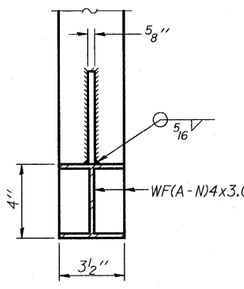
SHEET NO. 40 OF 49 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ST/TO	(25-3,4)R	EFFINGHAM	1098	282
		CONTRACT NO. 74299		
	ILLINOIS FED. AID PROJECT			

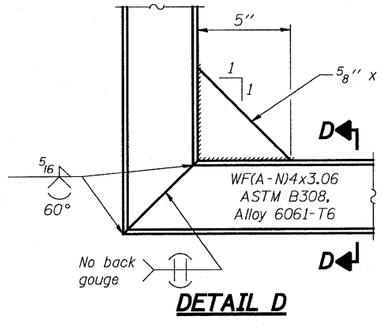


SECTION B-B

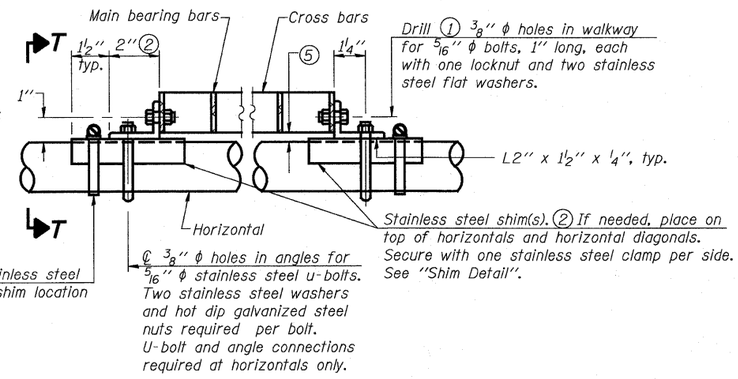
Sign shall be even with the top of the bracket, but it may extend no more than 6" above the top of the bracket for field adjustments.



SECTION D-D

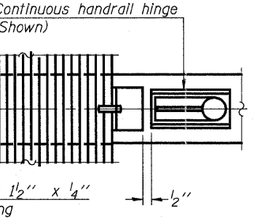


DETAIL D

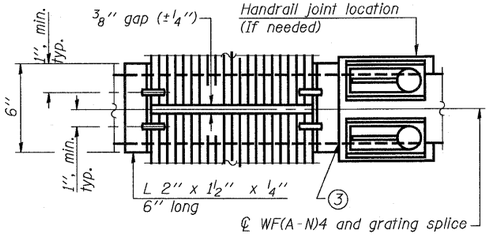


DETAIL T

(Continuous Truss grating)

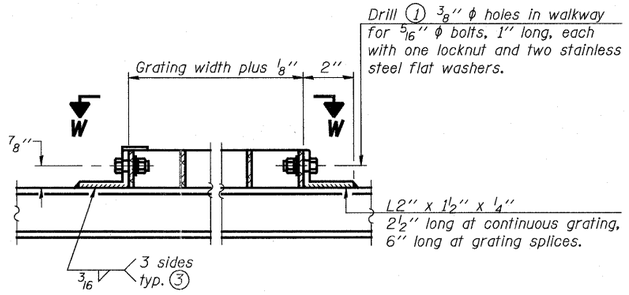


(CONTINUOUS WALKWAY GRATING)



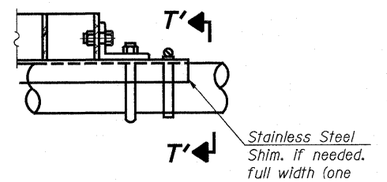
(AT WALKWAY GRATING SPLICE)

SECTION W-W



DETAIL W

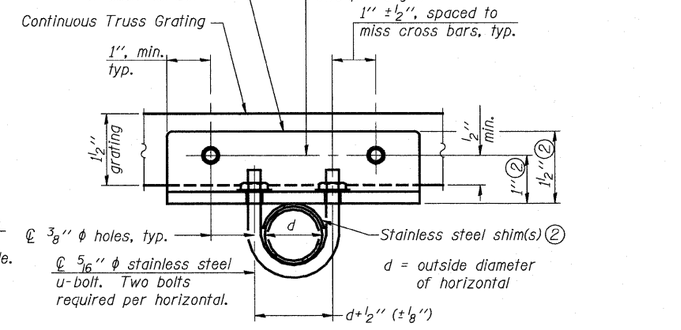
(Walkway grating)



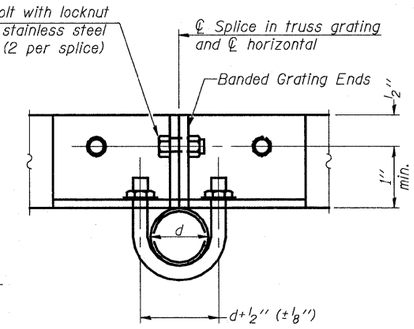
DETAIL T'

(Truss grating splice)

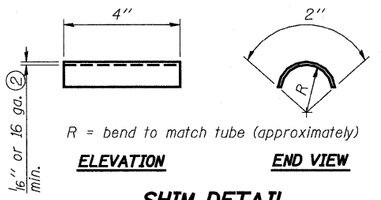
Details not shown same as Detail T. Alternate materials may be used subject to the Engineer's review and approval.



SECTION T-T



SECTION T'-T'



SHIM DETAIL

Structure Number	Station	A	(6) B	C	(6) D
7C025I057R159.6	2165+19	7"	5'-3"	5'-6"	11'-3"
7C025I057R159.8	2176+00	7"	4'-0"	5'-6"	10'-0"
7C025I057L159.9	2178+90	7"	5'-6"	5'-6"	11'-6"

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars (MBB) shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.

Cross bars (CB) shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "T" sections for main bearing bars shall meet the following requirements:

Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.^{3} per bar, a depth of 1 1/2", spaced on 1 3/16" centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

(1) Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.

(2) Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.

(3) If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OSC-A-8.)

(4) PL 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.

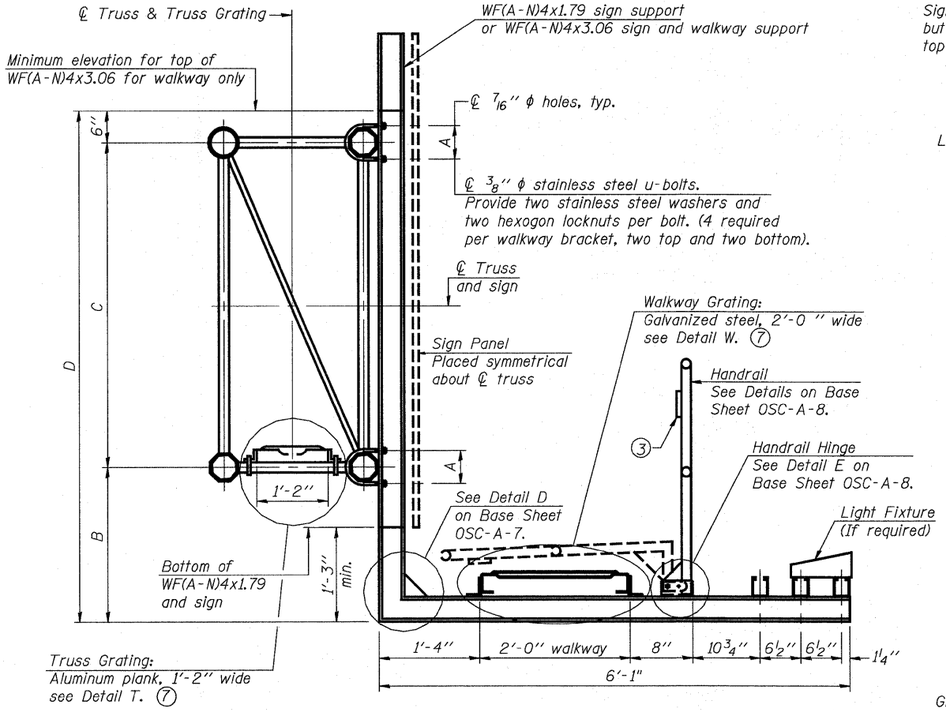
(5) Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.

(6) Based on actual sign height, D_S, given on OSC-A-1.

OSC-A-7 7-1-10

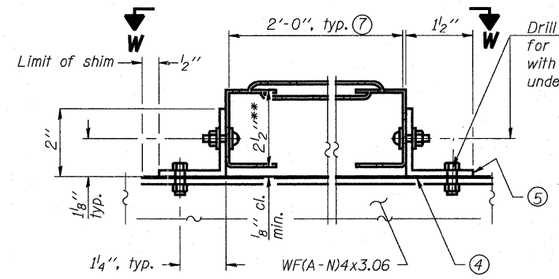
FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED - 4-27-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CANTILEVER SIGN STRUCTURES – WALKWAY DETAILS ALUMINUM TRUSS & STEEL POST
		CHECKED - JWS	REVISED -		SHEET NO. 41 OF 49 SHEETS
	PLOT SCALE =	DRAWN - PDB	REVISED -		
	PLOT DATE =	CHECKED - BRM	REVISED -		

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	283
		CONTRACT NO. 74299		
	ILLINOIS FED. AID PROJECT			

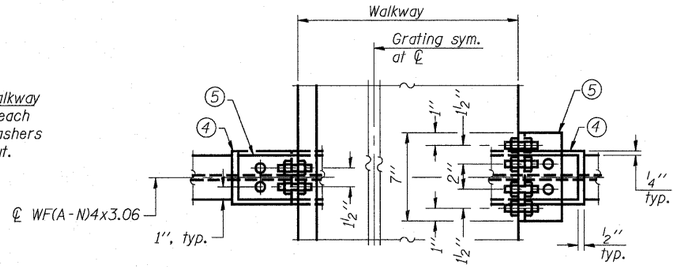


SECTION B-B

Sign shall be even with the top of the bracket, but it may extend no more than 6" above the top of the bracket for field adjustments.

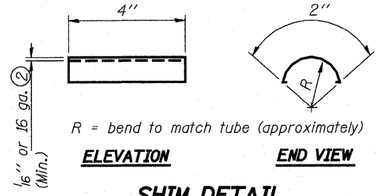


DETAIL W
GALVANIZED STEEL WALKWAY GRATING



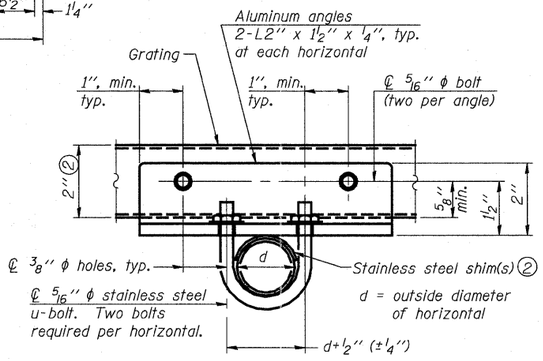
WALKWAY GRATING CONTINUOUS **AT WALKWAY GRATING SPLICE**

SECTION W-W

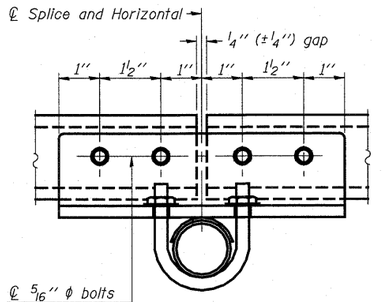


ELEVATION **END VIEW**

SHIM DETAIL

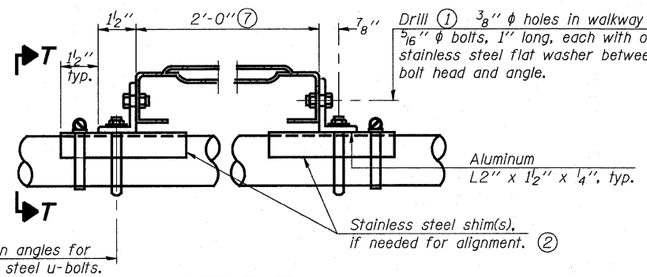


SECTION T-T
(Truss Grating Continuous)



SECTION T-T
(Truss Grating Splice)

Alternate splice details and locations may be used subject to the Engineer's review and approval.



DETAIL T
(Truss grating at horizontal)

ALUMINUM TRUSS GRATING

Structure Number	Station	A	(8) B	C	(8) D
7C025I057R159.6	2165+19	7"	5'-3"	5'-6"	11'-3"
7C025I057R159.8	2176+00	7"	4'-0"	5'-6"	10'-0"
7C025I057L159.9	2178+90	7"	5'-6"	5'-6"	11'-6"

(1) Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.

(2) Stainless steel shims shall be placed under angles at horizontals and horizontal diagonals if needed to compensate for alignment variations and differences in horizontal diagonal pipe sizes beyond adjustment provided by angles. Secure with one stainless steel clamp per location, se "Shim Detail". Thicker shim plates may be used when needed subject to shims performing properly.

(3) ℄ 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.

(4) 1/16" (or 16 ga.) x 2 1/2" x 4" stainless steel shim adhered to top of WF(A-N)4x3.06 beneath each galvanized angle, typ. Adhesives for shims shall be suitable for materials joined and full exposure conditions.

(5) Galvanized steel L2" x 2" x 1/4", 3 1/2" long with continuous grating 7" long at grating splice.

(6) Details shown are considered equal alternatives to Aluminum Walkway Details and may be substituted by Contractor at no charge in contract cost.

(7) Perforated or expanded metal grating providing a skid resistant (non-serrated) surface and capable of supporting a 500 pound concentrated load with a 6'-0" clear span. Walkway and truss grating dimensions are nominal and may vary (width ±1/2", depth 1/2") based on available standard sizes. Cut ends of grating shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.

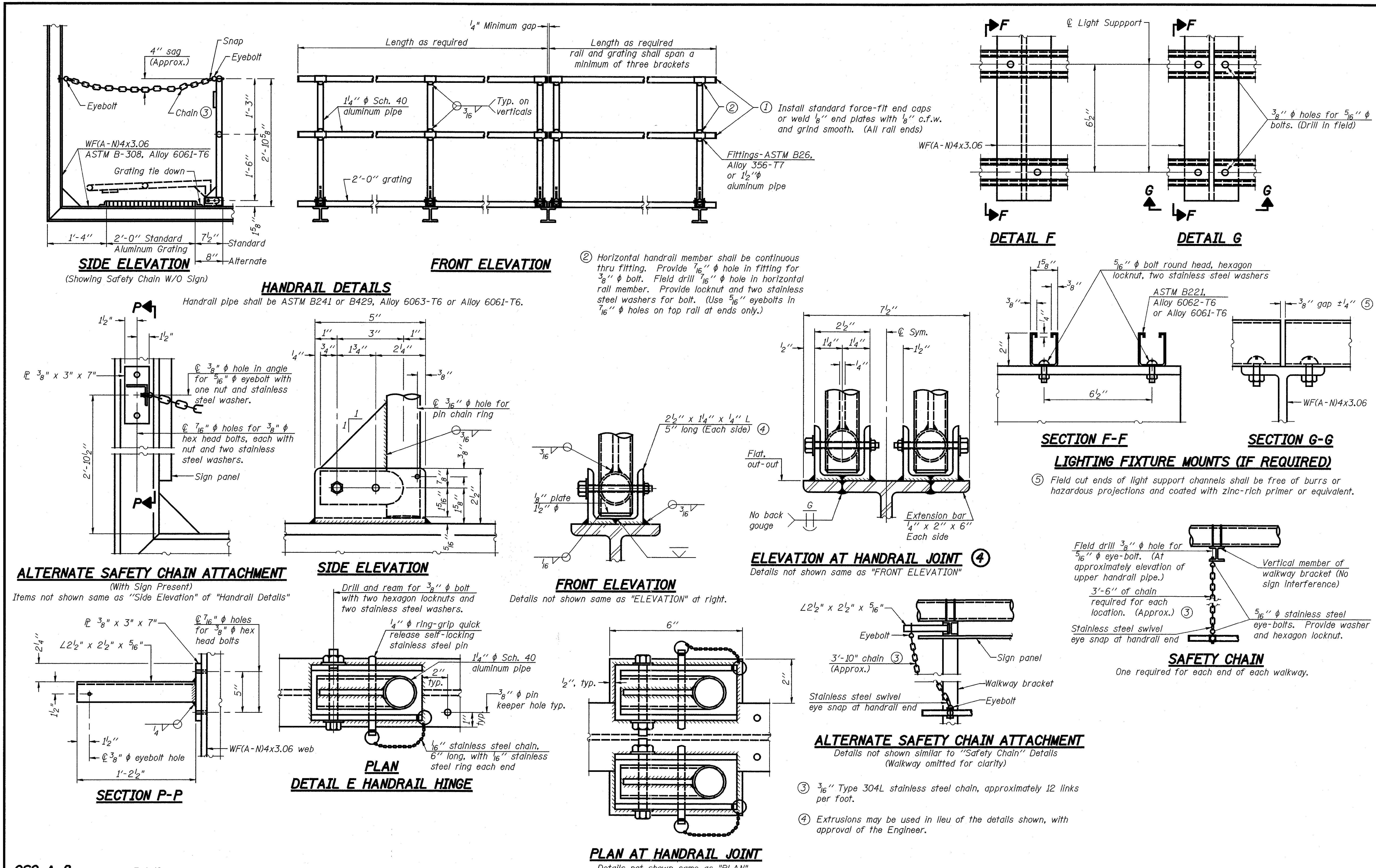
(8) Based on actual sign height, Ds, given on OSC-A-1.

OSC-A-7S 7-1-10

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -	4-27-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - JWS	REVISED -		
	PLOT SCALE =	DRAWN - PDB	REVISED -		
	PLOT DATE =	CHECKED - BRM	REVISED -		

CANTILEVER SIGN STRUCTURES
ALTERNATE WALKWAY DETAILS
SHEET NO. 42 OF 49 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	284
		CONTRACT NO. 74299		
	ILLINOIS FED. AID PROJECT			

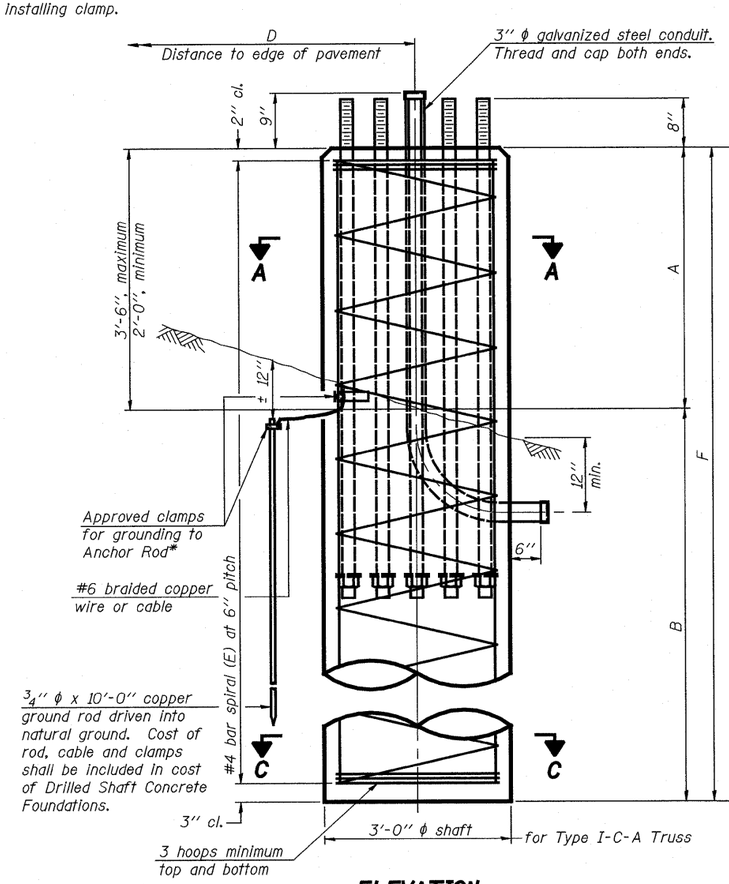


1/4" Minimum gap
Length as required
Length as required
rail and grating shall span a minimum of three brackets
Snap
Eyebolt
4" sag (Approx.)
Eyebolt
Chain ③
1'-3"
2'-10 5/8"
1'-6"
WF(A-N)4x3.06
ASTM B-308, Alloy 6061-T6
Grating tie down
1 5/8"
1'-4"
2'-0" Standard Aluminum Grating
7 1/2"
Standard
8"
Alternate
SIDE ELEVATION
(Showing Safety Chain W/O Sign)
1 1/4" ϕ Sch. 40 aluminum pipe
3/16
Typ. on verticals
2'-0" grating
②
① Install standard force-fit end caps or weld 1/8" end plates with 1/8" c.f.w. and grind smooth. (All rail ends)
Fittings-ASTM B26, Alloy 356-T7 or 1 1/2"ϕ aluminum pipe
FRONT ELEVATION
HANDRAIL DETAILS
Handrail pipe shall be ASTM B241 or B429, Alloy 6063-T6 or Alloy 6061-T6.
② Horizontal handrail member shall be continuous thru fitting. Provide 7/16" ϕ hole in fitting for 3/8" ϕ bolt. Field drill 7/16" ϕ hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16" eyebolts in 7/16" ϕ holes on top rail at ends only.)
F
℄ Light Suppport
F
WF(A-N)4x3.06
6 1/2"
3/8" ϕ holes for 5/16" ϕ bolts. (Drill in field)
G
G
F
F
DETAIL F
DETAIL G
1 5/8"
3/8"
3/8"
1/4"
2"
5/16" ϕ bolt round head, hexagon locknut, two stainless steel washers
ASTM B221, Alloy 6062-T6 or Alloy 6061-T6
3/8" gap ±1/4" ⑤
6 1/2"
WF(A-N)4x3.06
SECTION F-F
SECTION G-G
LIGHTING FIXTURE MOUNTS (IF REQUIRED)
⑤ Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.
P
1 1/2"
1 1/2"
℗ 3/8" x 3" x 7"
℄ 3/8" ϕ hole in angle for 5/16" ϕ eyebolt with one nut and stainless steel washer.
℄ 7/16" ϕ holes for 3/8" ϕ hex head bolts, each with nut and two stainless steel washers.
2'-10 1/2"
Sign panel
P
ALTERNATE SAFETY CHAIN ATTACHMENT
(With Sign Present)
Items not shown same as "Side Elevation" of "Handrail Details"
5"
1"
3"
1"
1/4"
3/4"
1 3/4"
2 1/4"
3/8"
1
1
℄ 3/16" ϕ hole for pin chain ring
3/16
3/8"
7/8"
15/16"
1 5/8"
2 1/2"
5/16"
SIDE ELEVATION
2 1/2" x 1 1/4" x 1/4" L 5" long (Each side) ④
3/16
1/8" plate 1 1/2" ϕ
3/16
1/16
FRONT ELEVATION
Details not shown same as "ELEVATION" at right.
7 1/2"
2 1/2"
1/2"
1 1/4"
1 1/4"
℄ Sym.
1 1/2"
1/4"
Flat, out-out
No back gouge
G
Extension bar 1/4" x 2" x 6" Each side
ELEVATION AT HANDRAIL JOINT ④
Details not shown same as "FRONT ELEVATION"
Field drill 3/8" ϕ hole for 5/16" ϕ eye-bolt. (At approximately elevation of upper handrail pipe.)
3'-6" of chain required for each location. (Approx.) ③
Stainless steel swivel eye snap at handrail end
Vertical member of walkway bracket (No sign interference)
5/16" ϕ stainless steel eye-bolts. Provide washer and hexagon locknut.
SAFETY CHAIN
One required for each end of each walkway.
℗ 3/8" x 3" x 7"
℄ 7/16" ϕ holes for 3/8" ϕ hex head bolts
2 1/4"
∠2 1/2" x 2 1/2" x 5/16"
5"
1 1/2"
1/4
1 1/2"
℄ 3/8" ϕ eyebolt hole
1'-2 1/2"
WF(A-N)4x3.06 web
SECTION P-P
Drill and ream for 3/8" ϕ bolt with two hexagon locknuts and two stainless steel washers.
1/4" ϕ ring-grip quick release self-locking stainless steel pin
1 1/4" ϕ Sch. 40 aluminum pipe
2" typ.
3/8" ϕ pin keeper hole typ.
1" typ
1/16" stainless steel chain, 6" long, with 1/16" stainless steel ring each end
PLAN
DETAIL E HANDRAIL HINGE
6"
1/2", typ.
2"
PLAN AT HANDRAIL JOINT
Details not shown same as "PLAN"
∠2 1/2" x 2 1/2" x 5/16"
Eyebolt
3'-10" chain ③ (Approx.)
Stainless steel swivel eye snap at handrail end
Sign panel
Walkway bracket
Eyebolt
ALTERNATE SAFETY CHAIN ATTACHMENT
Details not shown similar to "Safety Chain" Details (Walkway omitted for clarity)
③ 3/16" Type 304L stainless steel chain, approximately 12 links per foot.
④ Extrusions may be used in lieu of the details shown, with approval of the Engineer.

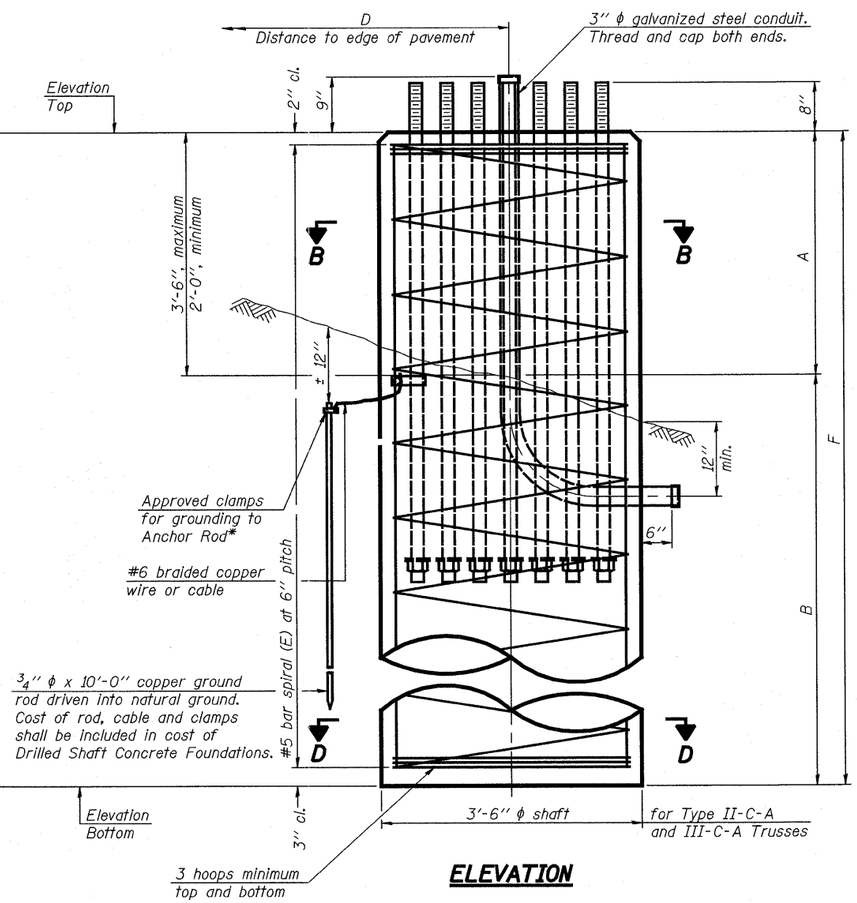
OSC-A-8 7-1-10

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CANTILEVER SIGN STRUCTURES - HANDRAIL DETAILS ALUMINUM TRUSS & STEEL POST	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JWS	REVISED -			57/70	(25-3,4)R	EFFINGHAM	1098	285
	PLOT SCALE =	DRAWN - PDB	REVISED -					CONTRACT NO. 74299		
	PLOT DATE =	CHECKED - BRM	REVISED -		SHEET NO. 43 OF 49 SHEETS		ILLINOIS FED. AID PROJECT			

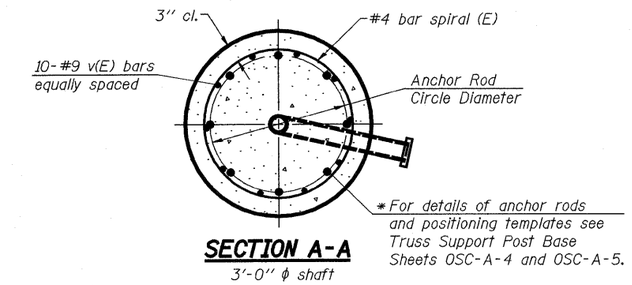
* Grind anchor rod to bright finish at ground clamp location before installing clamp.



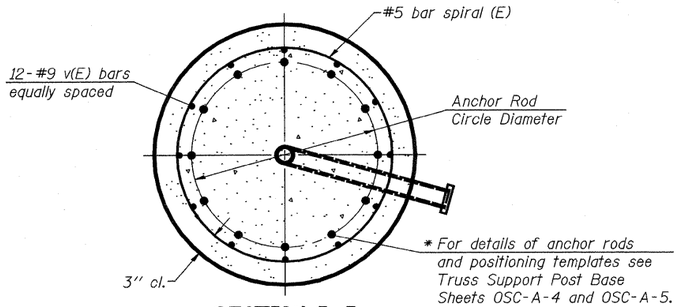
ELEVATION



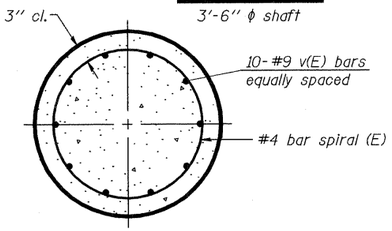
ELEVATION



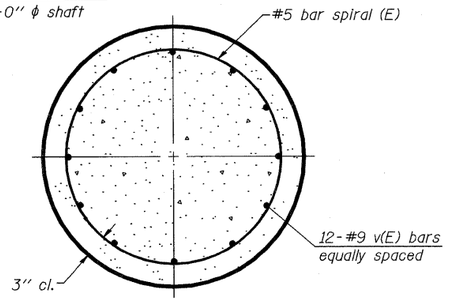
SECTION A-A
3'-0" ϕ shaft



SECTION B-B
3'-6" ϕ shaft



SECTION C-C
3'-0" ϕ shaft



SECTION D-D
3'-6" ϕ shaft

NOTES:

The foundation dimensions shown in the Foundation Design Table are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown in the Foundation Data Table will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

FOUNDATION DESIGN TABLE

Truss Type	Post Base Sheet	Maximum CantileverLength (ft)	Maximum Total Sign Area (sq ft)	Shaft Diameter (in)	"B" Depth (ft)	Anchor Rods No.	Anchor Rods Diameter (in)	Anchor Rod Circle Diameter (in)
I-C-A	OSC-A-4	25	170	3.0	16.0	8	2	22
II-C-A	OSC-A-5	30	170	3.5	17.0	12	2	30
II-C-A	OSC-A-5	30	340	3.5	21.5	12	2	30
III-C-A	OSC-A-5	35	170	3.5	19.0	12	2	30
III-C-A	OSC-A-5	35	250	3.5	22.5	12	2	30
III-C-A	OSC-A-5	35	400	3.5	26.5	12	2	30
III-C-A	OSC-A-5	40	400	3.5	32.0	12	2	30

FOUNDATION DATA TABLE

Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Qu	A	B	F	Class DS Concrete Cubic Yards
7C025I057R159.8	2176+00	II-C-A	3'-6"	572.77	548.27		3'-0"	21'-6"	24'-6"	8.8
7C025I057L159.9	2178+90	II-C-A	3'-6"	576.77	552.27		3'-0"	21'-6"	24'-6"	8.8

OSC-A-9 7-1-10

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
	PLOT SCALE =	DRAWN - PDB	REVISED -
	PLOT DATE =	CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

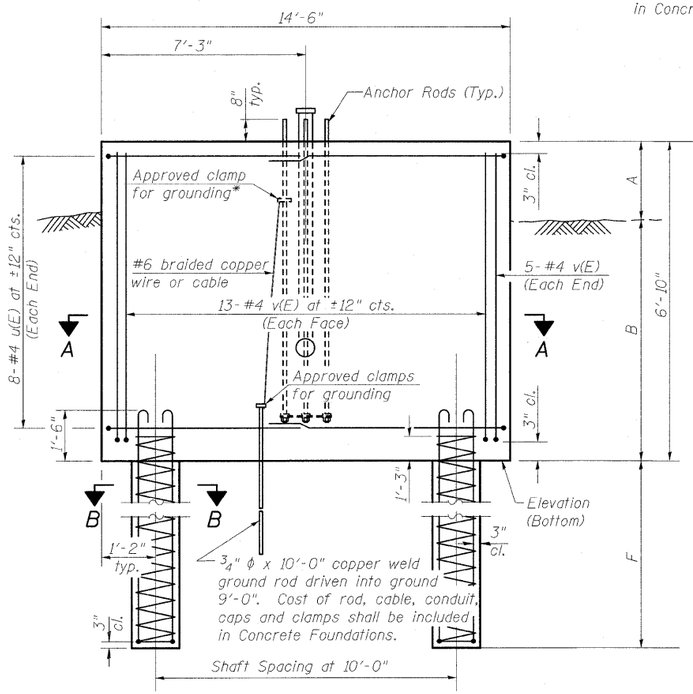
CANTILEVER SIGN STRUCTURES – DRILLED SHAFT
ALUMINUM TRUSS & STEEL POST
SHEET NO. 44 OF 49 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	286
		CONTRACT NO. 74299		
	ILLINOIS	FED. AID PROJECT		

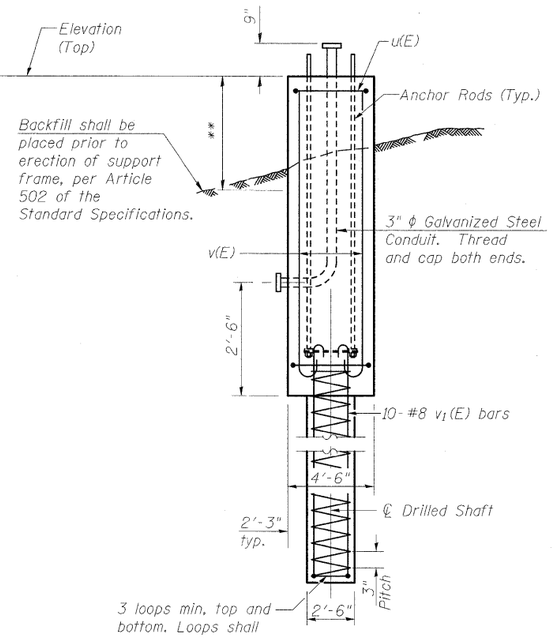
For anchor rod detail and placement, see Cantilever Sign Structures Type II-C-A & III-C-A Truss Support Post Aluminum Truss & Steel Post.

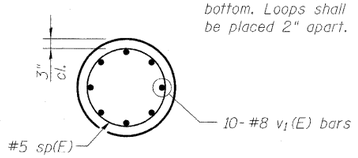
* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

** A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Concrete Foundations.

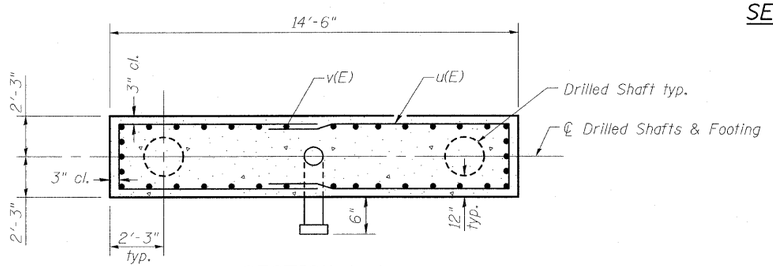


SIDE ELEVATION





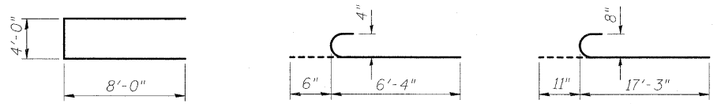
SECTION B-B



SECTION A-A

DESIGN STRESSES

f'c = 3500 psi
fy = 60,000 psi



BAR u(E) BAR v(E) BAR v_1(E)

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
sp(F)	2	#5	17'-0"	
u(E)	16	#4	20'-0"	
v(E)	36	#4	6'-10"	
v_1(E)	20	#8	18'-2"	

Structure Number	Station	Foundation					Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	A	B	F	
7C025I057R159.6	2165+19	569.78	562.95	3'-4"	3'-6"	16'-0"	22.3

Note:
During construction, if footing length, width or wall height change by more than 12", or if reinforcement is changed, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

LICENSED STRUCTURAL ENGINEER
CHADWICK J. FUESTING
081-005834
STATE OF ILLINOIS
EXP. 11-30-2012
Chadwick J Fuesting 3/15/11

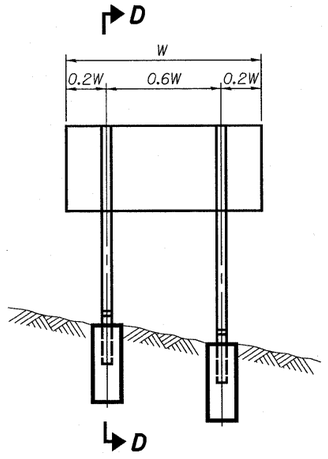
DETAILS FOR TYPE II-C-A TRUSS SUPPORT FRAME

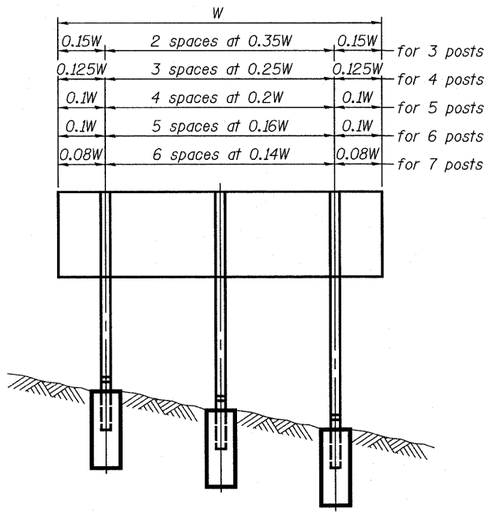
FILE NAME =	USER NAME =	DESIGNED - ACS	REVISED -
		CHECKED - BB	REVISED -
	PLOT SCALE =	DRAWN - ACS	REVISED -
	PLOT DATE =	CHECKED - CJF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

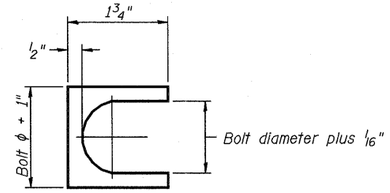
CANTILEVER SIGN STRUCTURES
FOUNDATION DETAILS
SHEET NO. 45 OF 49 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	287
		CONTRACT NO. 74299		
	ILLINOIS	FED. AID PROJECT		



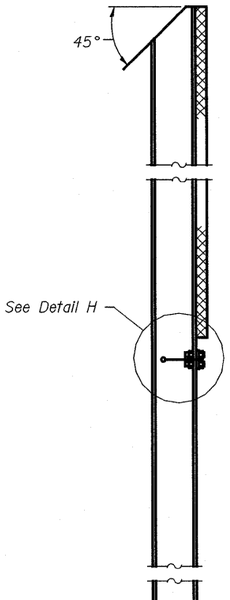


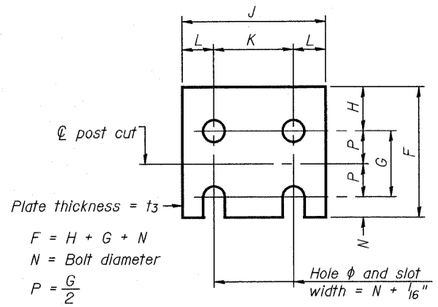
ELEVATION



SHIM DETAIL

Furnish two 0.01" thick and two 0.03" thick stainless steel or brass (ASTM B36) shims per post.

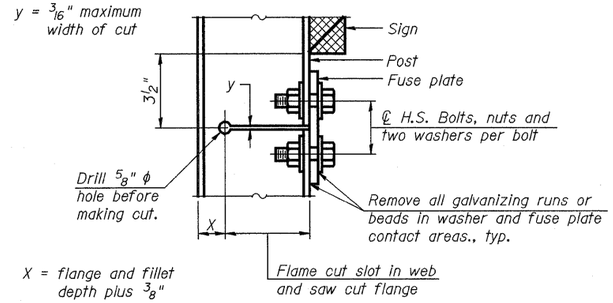




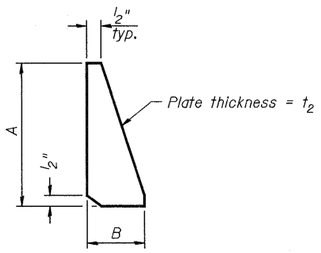
FUSE PLATE DATA		
N = Bolt Diameter	G	H
1/2"	2"	1 1/8"
5/8"	2 1/4"	1 1/4"
3/4"	2 1/2"	1 3/8"
7/8"	2 3/4"	1 1/2"
1"	3"	1 5/8"
1 1/8"	3 1/4"	1 3/4"
1 1/4"	3 1/2"	1 7/8"

FUSE PLATE DETAIL

(Install with notches down.)

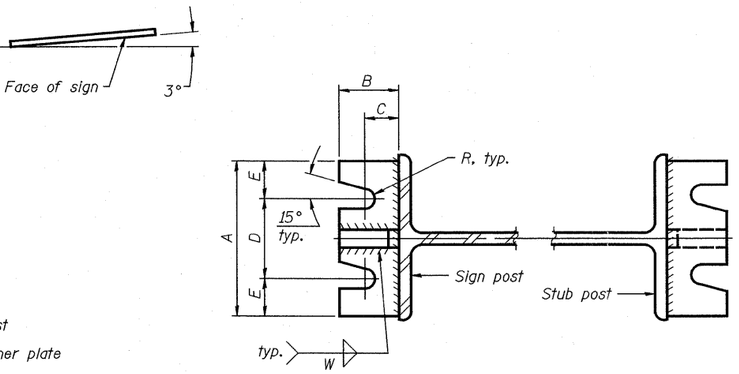


DETAIL H



STIFFENER PLATE DETAIL

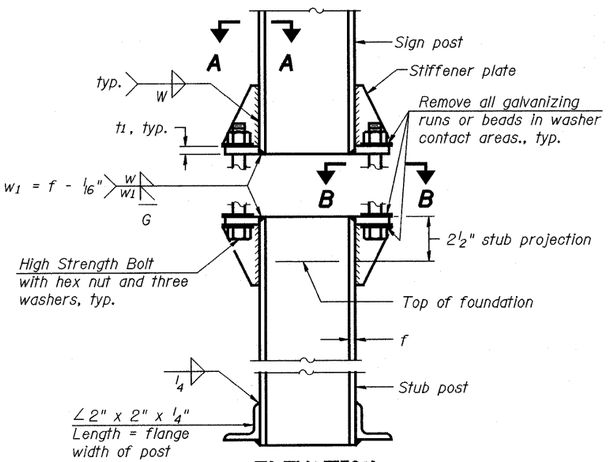
Diameter



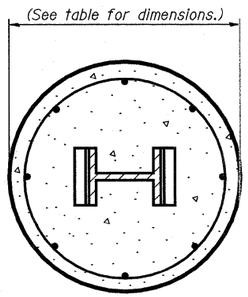
LOCATION SKETCH

SECTION A-A

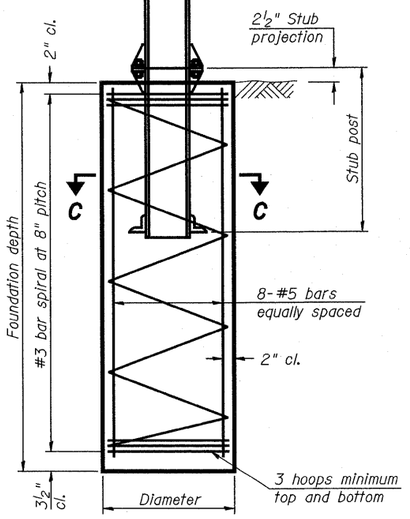
SECTION B-B



ELEVATION
SIGN POST & STUB POST



SECTION C-C



SECTION D-D

GENERAL NOTES

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:
Structural steel - 20,000 p.s.i.
Reinforcing steel - 20,000 p.s.i.
Concrete - 1,400 p.s.i.
Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2.

BAW-A-1 7-1-10

(Sheet 1 of 2)

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
	PLOT SCALE =	DRAWN - PDB	REVISED -
	PLOT DATE =	CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

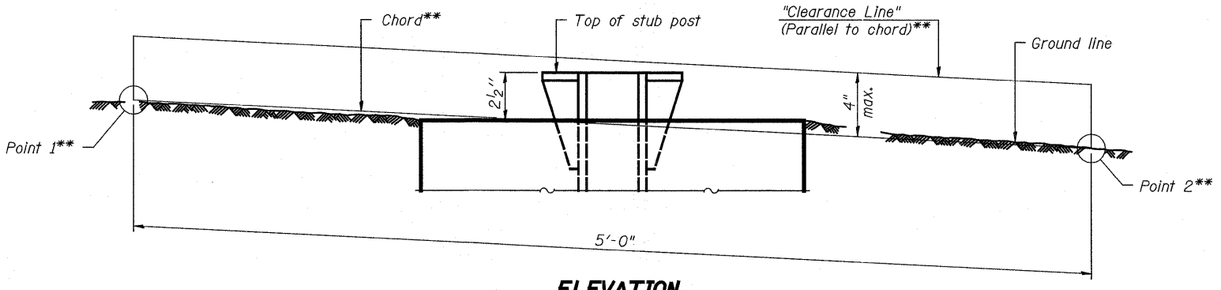
BREAK-AWAY WIDE FLANGE
STEEL SIGN POST DETAILS
SHEET NO. 46 OF 49 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	288
		CONTRACT NO. 74299		
ILLINOIS FED. AID PROJECT				

POST	CONCRETE FOUNDATION TABLE								POST TO STUB POST CONNECTION DATA										FUSE PLATE DATA			
	Foundation			Reinforcement				Stub Post														
	Diameter	*Minimum Depth	Concrete (1) cu. yds.)	Vertical Bars Length	Bar Spirals Diameter	Bar Spirals Length	lbs. (2)	Length	Bolt Size	A	B	C	D	E	t_1	t_2	R	W	J	K	L	t_3
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8½"	79'-0"	78	2'-3"	⅝" x 3¼"	6"	2¼"	1¼"	3½"	1¼"	¾"	½"	11/32"	¼"	4"	2¼"	⅞"	¼"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8½"	79'-0"	78	2'-6"	⅝" x 3¼"	6"	2¼"	1¼"	3½"	1¼"	¾"	½"	11/32"	¼"	6"	3½"	1¼"	⅜"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8½"	79'-0"	78	2'-6"	¾" x 3¾"	6"	2½"	1⅜"	3¼"	1⅜"	1"	½"	13/32"	5/16"	5¼"	2¾"	1¼"	⅜"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2½"	105'-0"	92	3'-0"	¾" x 3¾"	6"	2½"	1⅜"	3¼"	1⅜"	1"	½"	13/32"	5/16"	5¾"	2¾"	1½"	½"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2½"	112'-0"	98	3'-0"	⅞" x 4"	7"	2¾"	1½"	4"	1½"	1"	¾"	15/32"	⅜"	5¾"	2¾"	1½"	⅝"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2½"	119'-0"	107	3'-0"	⅞" x 4"	7"	2¾"	1½"	4"	1½"	1"	¾"	15/32"	⅜"	6½"	3½"	1½"	⅝"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8½"	145'-0"	113	3'-0"	⅞" x 4"	7"	2¾"	1½"	4"	1½"	1"	¾"	15/32"	⅜"	6¾"	3½"	1⅝"	½"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8½"	153'-0"	122	3'-6"	1" x 4½"	7½"	3"	1¾"	4"	1¾"	1¼"	¾"	17/32"	⅜"	6¾"	3½"	1⅝"	½"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8½"	162'-0"	130	3'-6"	1" x 4½"	7½"	3"	1¾"	4"	1¾"	1¼"	¾"	17/32"	⅜"	7"	3½"	1¾"	½"

*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE — Sign Height																			
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"
W6x9	½" x 1½"	½" x 1½"	½" x 1½"	½" x 1½"	——	——	——	——	——	——	——	——	——	——	——	——	——	——	——	——	——
W6x15	½" x 1¾"	½" x 1¾"	½" x 1¾"	⅝" x 2"	⅝" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	——	——	——	——	——	——	——	——	——	——	——	——
W8x18	½" x 1¾"	½" x 1¾"	½" x 1¾"	½" x 1¾"	⅝" x 2"	⅝" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	——	——	——	——	——	——	——	——	——	——	——
W10x22	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2"	⅝" x 2"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	——	——	——	——	——	——	——	——
W10x26	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	——	——	——	——	——	——	——
W12x26	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	——	——	——	——	——	——
W14x30	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2"	⅝" x 2"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	——	——	——	——	——
W14x38	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	⅞" x 2½"	⅞" x 2½"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"
W16x45	——	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	⅞" x 2½"	⅞" x 2½"	⅞" x 2½"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"



ELEVATION
GROUND LINE & STUB POST

** For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

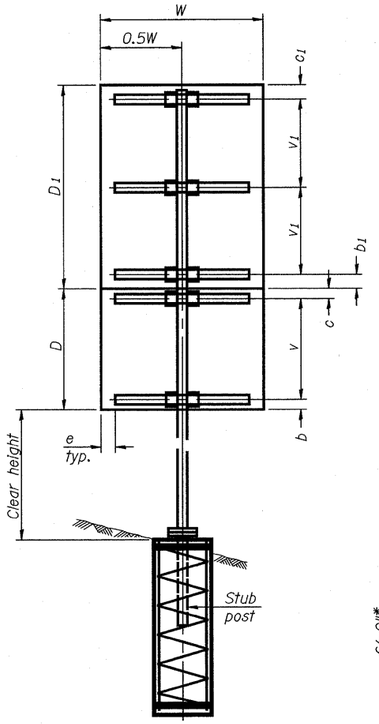
(1) Quantity includes all concrete necessary for one foundation.

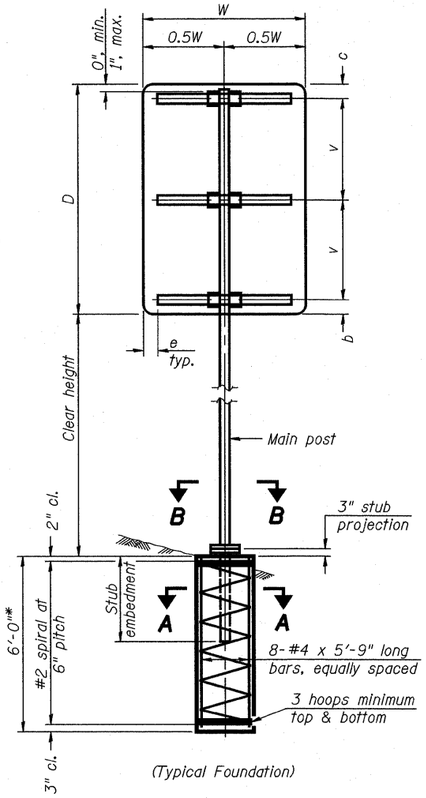
(2) Includes reinforcement bars and spiral hooping for one foundation.

BAW-A-2 7-1-10

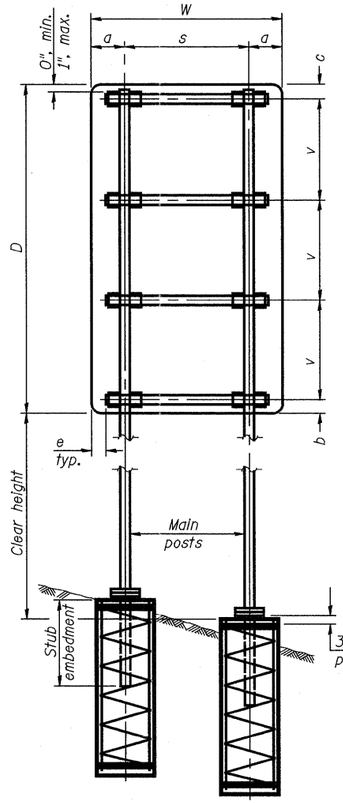
(Sheet 2 of 2)

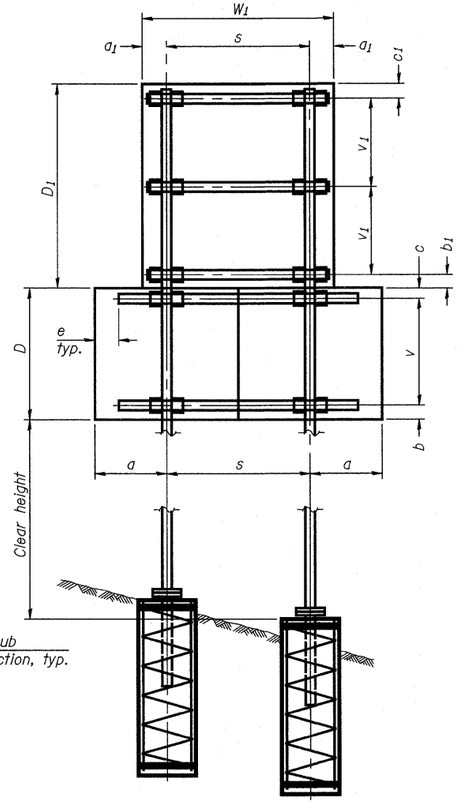
FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BREAK-AWAY WIDE FLANGE STEEL SIGN POST TABLES	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JWS	REVISED -			57/70	(25-3,4)R	EFFINGHAM	1098	289
	PLOT SCALE =	DRAWN - PDB	REVISED -					CONTRACT NO. 74299		
	PLOT DATE =	CHECKED - BRM	REVISED -		SHEET NO. 47 OF 49 SHEETS			ILLINOIS FED. AID PROJECT		





(Typical Foundation)





GENERAL NOTES

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

One foundation requires 0.7 cubic yards of concrete and 46 pounds of reinforcement bars and spiral hoops.

LOADING: 80 mph wind with 30% gust factor, normal to sign.

DESIGN STRESSES:
Structural steel - 20,000 psi
Reinforcing steel - 20,000 psi
Concrete - 1,400 psi
Footing soil pressure - 2,000 psf

After fabrication, the post, fuse plate, base plate and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

For Sections A-A and B-B, see Base Sheet BAT-A-2.

FOUNDATIONS:
All necessary excavation or drilling (except in rock); backfilling with excavated material; disposal of unsuitable or surplus material; formwork; and furnishing and placing the Class SI Concrete and reinforcement bars, shall be included in the pay item used for foundations.

The measurement of the tubular steel shall be computed on the basis of the weight per foot of the support, multiplied by the combined length of the main posts and stub posts.

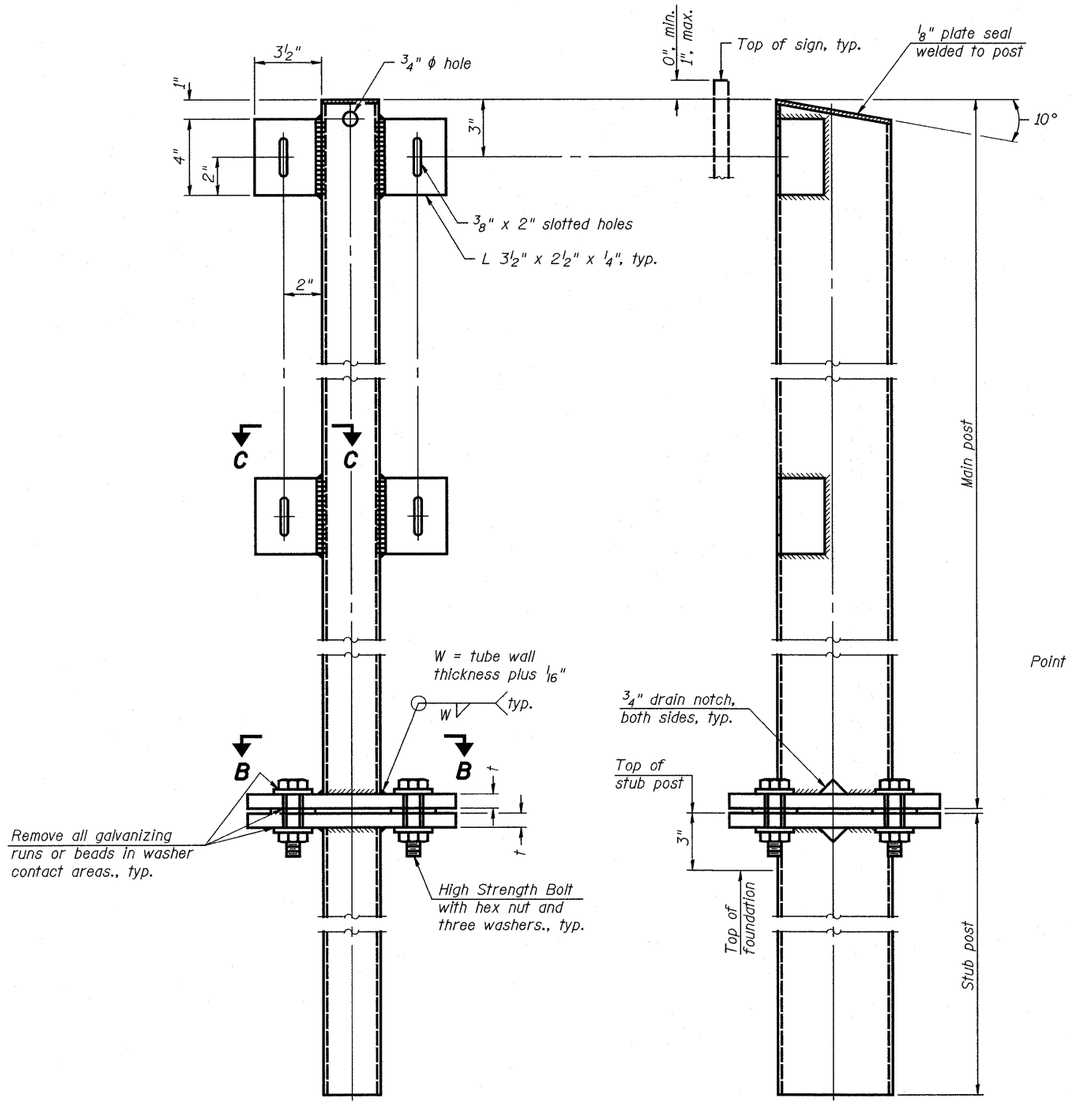
SINGLE POST ASSEMBLY EXAMPLES

* Dimensional changes required for varying site conditions shall be approved by the Engineer.

a or a_1 = 6" min. to 2'-0" max. (Approximately 0.2W or 0.2W_1)
b or b_1 = 3" min. to 4" max
c or c_1 = 3" min. to 4" max
e = 0" min. to 6" max
s = 3'-0" min. to 6'-0" max. (Approximately 0.6W or 0.6W_1)
v or v_1 = 2'-0" min. to 2'-11" max.

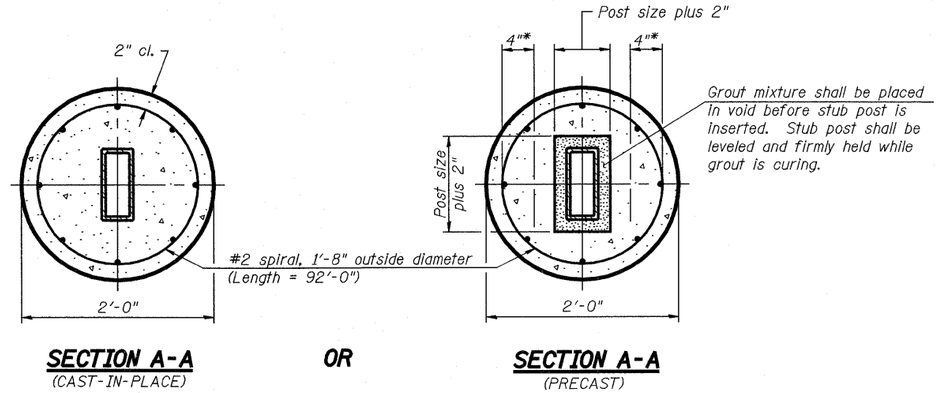
DUAL POST ASSEMBLY EXAMPLES

MAIN POST STEEL TUBING	WEIGHT PER FOOT (POUND)	STUB POST TABLE		MAIN POST TABLE				
		Stub Embedment	Stub Post Length	Bolt Size	A	t	R	Bolt Circle
3" x 2" x 1/4"	7.11	2'-0"	2'-3"	1/2" x 2 3/4"	8 1/4"	5/8"	9/32"	6 1/2"
4" x 2" x 1/4"	8.81	2'-0"	2'-3"	1/2" x 2 3/4"	8 1/4"	5/8"	9/32"	6 1/2"
4" x 3" x 1/4"	10.51	2'-3"	2'-6"	5/8" x 3 1/4"	10"	3/4"	11/32"	8"
5" x 3" x 1/4"	12.21	2'-3"	2'-6"	5/8" x 3 1/4"	10"	3/4"	11/32"	8"
6" x 3" x 1/4"	13.91	2'-3"	2'-6"	5/8" x 3 1/4"	11 1/2"	3/4"	11/32"	9 1/2"
6" x 4" x 1/4"	15.62	2'-3"	2'-6"	3/4" x 3 1/2"	11 1/2"	3/4"	13/32"	9 1/2"
6" x 4" x 5/16"	19.08	2'-3"	2'-6"	3/4" x 3 1/2"	11 1/2"	3/4"	13/32"	9 1/2"
7" x 5" x 1/4"	19.02	2'-6"	2'-9"	3/4" x 3 1/2"	1'-2"	3/4"	13/32"	1'-0"
8" x 4" x 1/4"	19.02	2'-6"	2'-9"	3/4" x 3 1/2"	1'-2"	3/4"	13/32"	1'-0"
8" x 6" x 1/4"	22.42	2'-6"	2'-9"	7/8" x 3 1/2"	1'-2"	3/4"	15/32"	1'-0"



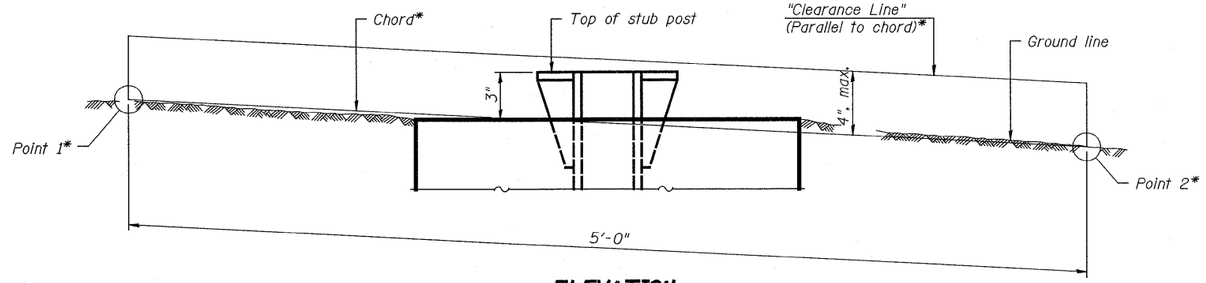
FRONT ELEVATION **SIDE ELEVATION**

MAIN POST & STUB POST



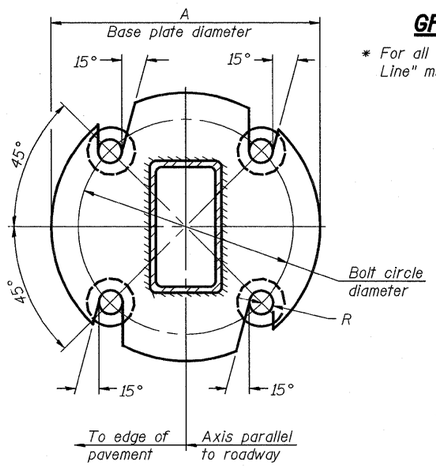
SECTION A-A (CAST-IN-PLACE) **OR** **SECTION A-A** (PRECAST)

* Hot dip galvanized lifting loops or inserts may be placed in precast foundation inside the spiral reinforcement but not within 6" of the long axis of the post. Inserts must be adequate for safely lifting a total of 3,000 pounds and must not interfere with installation of the stub post or proper functioning of the slip base.

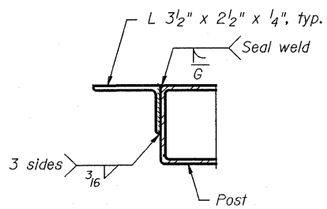


ELEVATION
GROUND LINE & STUB POST

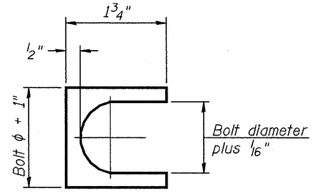
* For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.



SECTION B-B



SECTION C-C
Weld continuously around corners.



SHIM DETAIL
Furnish two 0.01" thick and two 0.03" thick stainless steel or brass (ASTM B36) shims per post.

BAT-A-2 7-1-10

(Sheet 2 of 2)

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
	PLOT SCALE =	DRAWN - PDB	REVISED -
	PLOT DATE =	CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BREAK-AWAY TUBULAR STEEL SIGN POSTS AND DETAILS
SHEET NO. 49 OF 49 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	291
		CONTRACT NO. 74299		
		ILLINOIS FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 3/15/10

ROUTE I-57/70 DESCRIPTION Overhead Sign Truss locations LOGGED BY E. Sandschafer

SECTION Various LOCATION N 1/2, SEC. 30, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S025I057R159.0
Station 2131+68

BORING NO. 3A (DL)
Station 2131+68
Offset 61.00ft Rt
Ground Surface Elev. 596.31 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 574.3 ft
Upon Completion 581.5 ft
After 24 Hrs. 586.3 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
				12" asphalt shoulder on 6" crushed stone subbase.
				594.81
				Skipped this trip.
				591.81 Gray, CLAY.
-5	3			Stiff, damp, brown, CLAY LOAM TILL, embankment.
	6	1.8	11	
	10	B		
	3			
				588.31
	4	1.3	19	Stiff, damp, gray, CLAY w/ Silt.
	8	B		
				586.81
-10	4			Soft, damp, gray, SILTY LOAM.
	4	0.4	18	
	5	B		
				583.81
	1			Stiff, damp, red/gray/black, CLAY.
	3	1.4	23	
	3	B		
-15	0			
	3	1.2	23	
	6	B		
				579.31
	1			Medium to soft, damp, gray, CLAY LOAM.
	3	1.0	19	
	3	B		
-20	0			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
	0	0.3	21	Medium to soft, damp, gray, CLAY LOAM. *(continued)*
	2	B		
				574.31
	25			Hard, damp, gray, SANDY CLAY TILL.
	50	+4.5	7	
	50/5"	PP		
				571.81
-25	17			Hard, damp, gray, CLAY LOAM TILL.
	32	6.0	8	
	44	BS		
				570.31
				Extent of exploration.
-30				
-35				
-40				

Latitude N 88 deg 34.177 min, Longitude N 39 deg 26.996 min, Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 3/15/10

ROUTE I-57/70 DESCRIPTION Overhead Sign Truss locations LOGGED BY E. Sandschafer

SECTION Various LOCATION N 1/2, SEC. 30, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S025I057R159.0
Station 2131+68

BORING NO. 3B (PL)
Station 2131+68
Offset 35.50ft Rt
Ground Surface Elev. 596.60 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 574.6 ft
Upon Completion 582.6 ft
After 24 Hrs. 586.1 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
				5 1/2" asphalt on 10 1/4" concrete pavement.
				595.30
				Gray, CLAY.
				Skipped this trip.
				592.10
-5	4			Stiff, damp, gray, CLAY LOAM TILL, embankment.
	5	2.0	14	
	11	B		
				589.60
	3			Stiff to medium, damp, gray, SILTY CLAY.
	4	1.5	21	
	9	B		
-10	2			
	4	1.0	19	
	5	B		
				584.60
	2			Stiff, damp, gray marbled red, CLAY.
	4	1.3	20	
	5	B		
				582.10
-15	1			Medium, damp, gray mottled brown, SANDY CLAY LOAM.
	3	0.9	20	
	3	B		
				578.90
	3	1.5	20	Stiff, damp, red/gray/black, CLAY LOAM TILL.
	3	B		
				577.10
-20	2			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
	2	0.3	20	Medium, very damp, red, SANDY CLAY LOAM TILL. *(continued)*
	2	B		
				574.60
	0			Very soft, wet, red, SANDY LOAM.
				6' water on drill rod.
	3	0.1	24	573.60 Red, SANDY CLAY TILL.
	24	B		
				572.10
-25	15			Hard, very moist, gray, CLAY LOAM TILL.
	27	9.1	8	
	50	S		
				570.60
				Extent of exploration.
-30				
-35				
-40				

Latitude N 88 deg 34.162 min, Longitude N 39 deg 26.996 min, Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\Boring log.dgn	USER NAME = bseibel	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 0.1667 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/18/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS FOR SIGN TRUSS FOUNDATIONS

SCALE: | SHEET NO. 1 OF 7 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	292
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 3/15/10

ROUTE I-57/70 DESCRIPTION Overhead Sign Truss locations LOGGED BY E. Sandschafer

SECTION Various LOCATION S 1/2, SEC. 19, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S025I057L159.6
Station 2161+20

BORING NO. 11A (DL)
Station 2161+20
Offset 59.40ft Lt
Ground Surface Elev. 570.40 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After 24 Hrs. Dry ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
10" asphalt shoulder on 13" crushed stone subbase.			
568.50			
Gray, CLAY.			
Skipped this trip.			
565.90			
Stiff, damp, brown, CLAY LOAM TILL, embankment.	3		
-5	3	1.1	12
	4	B	
	4		
	5	4.1	16
	8	B	
560.90			
Stiff, damp, gray mottled brown, CLAY LOAM.	3		
-10	5	1.7	20
	5	B	
558.40			
Very stiff, damp, red to brown, CLAY LOAM TILL.	7		
	8	5.1	11
	8	S	
-15	5		
	11	2.4	14
	20	BS	
553.40			
Very stiff, very moist, brown marbled red, SANDY CLAY LOAM TILL.	7		
	17	3.5	11
	27	S	
550.90			
-20	13		
Hard, very moist, brown w/ red veining, SILTY CLAY LOAM. *(continued)*	26	4.8	12
	24	S	
	10		
547.40	20		15
Very dense, very moist, gray, SILTY CLAY LOAM SHALE. *Sample broken, unable to test for Qu.*	50/3"		
545.90			
Very dense, moist, gray, SANDY CLAY SHALE. *Sample pokerchipped and powdered, unable to test for Qu.*	48		
-25	50/2"		9
545.10	50/2"		
Extent of exploration.			
-30			
-35			
-40			

Latitude W 88 deg 34.052 min. Longitude N 39 deg 07.174 min. Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 3/15/10

ROUTE I-57/70 DESCRIPTION Overhead Sign Truss locations LOGGED BY E. Sandschafer

SECTION Various LOCATION SW 1/4, SEC. 19, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S025I057L159.6
Station 2161+20

BORING NO. 11B (PL)
Station 2161+20
Offset 36.00ft Lt
Ground Surface Elev. 570.53 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After 24 Hrs. 551.5 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4 1/2" asphalt on 10" concrete pavement.			
569.33			
Brown, CLAY.			
568.53			
Medium to stiff, damp, red, SANDY CLAY TILL.	4		
	4	1.0	13
	6	B	
-5	3		
	6	1.4	18
	7	B	
563.53			
Very stiff, damp, brown, SANDY CLAY LOAM.	4		
	5	2.4	20
	7	B	
561.03			
Medium, damp, gray, SILTY LOAM w/ many roots.	0		
-10	2	0.7	14
	3	B	
558.53			
Soft to medium, damp, gray, SANDY LOAM.	1		
	2	0.5	20
	2	S	
556.03			
Stiff, damp, red, SANDY CLAY LOAM.	1		
-15	3	1.3	15
	4	S	
	3		
	4	1.0	16
	5	B	
551.03			
-20	2		
Stiff, damp, red mottled gray, CLAY LOAM TILL. *(continued)*	4	1.5	18
	6	B	
548.53			
Very dense, moist, brown, SANDY CLAY SHALE. *Sample pokerchipped, unable to test for Qu.*	40		
547.73	50/3"		10
	50/1"		
Extent of exploration.			
-25			
-30			
-35			
-40			

Latitude W 88 deg 34.047 min. Longitude N 39 deg 07.472 min. Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\Boring log.dgn	USER NAME = bseibel	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS FOR SIGN TRUSS FOUNDATIONS	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			57/70	(25-3,4)R	EFFINGHAM	1098	293
	PLOT SCALE = 0.1667 ' / IN.	CHECKED -	REVISED -						CONTRACT NO. 74299	
	PLOT DATE = 3/18/2011	DATE -	REVISED -		SCALE: SHEET NO. 2 OF 7 SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 9/28/10

ROUTE I-57/70 DESCRIPTION Overhead Sign Truss locations LOGGED BY E. Sandschafer

SECTION Various LOCATION N 1/2, SEC. 30, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S025I057R159.7
Station 2165+19

BORING NO. 16
Station 2165+19
Offset 74.00ft Rt
Ground Surface Elev. 569.65 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 557.7 ft
Upon Completion 562.7 ft
After 144 Hrs. 563.0 ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12" shoulder mixture of aggregate and millings. 568.65				
SANDY LOAM. 567.65				
Very stiff, damp, brown, CLAY LOAM TILL.		8		
		10	2.5	12
		7	B	
565.15				
Soft to very soft, very damp, brown, SANDY LOAM.	-5	1		
		1	0.3	17
		1	BS	
		0		
		1	0.3	23
		1	BS	
	-10	1		
		0	0.1	17
		0	S	
		2		
		4	0.1	16
		4	S	
555.15				
Hard, damp, gray, CLAY LOAM TILL.	-15	17		
		32	7.8	8
		50	BS	
		17		
		22	7.3	11
		36	B	
549.65	-20	22		

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard, damp, gray, CLAY LOAM TILL.		24	8.7	9
		39	B	
	-25	17		
		24	9.2	9
		36	B	
Skipped this trip.				
	-30	28		
		33	9.2	10
538.65		27	B	
Extent of exploration.	-35			
	-40			

Latitude W 88 deg 34.027 min, Longitude N 39 deg 07.634 min, Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 9/28/10

ROUTE I-57/70 DESCRIPTION Overhead Sign Truss locations LOGGED BY E. Sandschafer

SECTION Various LOCATION N 1/2, SEC. 30, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S025I057R159.9
Station 2176+00

BORING NO. 17
Station 2176+00
Offset 76.00ft Rt
Ground Surface Elev. 571.80 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter ft
Upon Completion 554.8 ft
After 144 Hrs. 568.8 ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12" shoulder mixture of aggregate and millings. 570.80				
SANDY LOAM. 569.80				
Hard, damp, brown, CLAY LOAM TILL.		9		
		15	9.7	8
		20	B	
	-5	12		
		18	9.2	9
		23	B	
		9		
		12	9.2	8
		24	B	
	-10	23		
		26	8.1	8
Gray		50/4"	S	
Skipped this trip.				
557.30				
Stiff, damp, gray, SANDY LOAM.	-15	21		
		19	1.6	9
		43	S	
554.80				
Hard, damp, gray, CLAY LOAM TILL.		13		
		21	8.1	9
		32	BS	
552.30				
Dense, damp, gray, fluffy, SAND.	-20	16		

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Dense, damp, gray, fluffy, SAND. *(continued)* 551.00		32		8
		46		
Hard, damp, gray, CLAY LOAM TILL.				
		33		
548.50		50/5"	7.8	17
		50/4"	B	
Extent of exploration.	-25			
	-30			
	-35			
	-40			

Latitude W 88 deg 33.954 min, Longitude N 39 deg 07.707 min, Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\Boring log.dgn	USER NAME = bseibel	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS FOR SIGN TRUSS FOUNDATIONS	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			57/70	(25-3,4)R	EFFINGHAM	1098	294
	PLOT SCALE = 0.1667 ' / IN.	CHECKED -	REVISED -					CONTRACT NO. 74299		
	PLOT DATE = 3/18/2011	DATE -	REVISED -		SCALE: SHEET NO. 3 OF 7 SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 10/6/10

ROUTE I-57/70 DESCRIPTION Overhead Sign Truss locations LOGGED BY E. Sandschafer

SECTION Various LOCATION N 1/2, SEC. 30, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S025I057L159.9
Station 2178+90

BORING NO. 20
Station 2178+90
Offset 73.00ft Lt
Ground Surface Elev. 574.84 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 551.8 ft
Upon Completion 556.8 ft
After 24 Hrs. 556.8 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				10" mixture of aggregate, millings and Sandy Loam, roadway shoulder. 574.04
				Hard, damp, gray, CLAY LOAM TILL.
	3			
	9	4.0	7	
	7	PP		
-5	30			
	50/5"	4.0	6	
	50/3"	PP		
	15			
	23	9.7	8	
	29	B		
-10	17			
	26	9.7	8	
	37	B		
	35			
	50/4"	9.7	7	
	50/3"	B		
-15	25			
	42	+4.5	7	
	50/4"	PP		
	31			
	42	9.7	7	
	50/4"	PP		
554.84 -20	31			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	45	9.7	8	Hard, damp, gray, CLAY LOAM TILL.
	50/4"	B		
552.84				
	25			Soft, very damp, gray, SANDY LOAM.
551.84				
	48		14	Very dense, wet, gray, fine grained, SAND. *10% passing #200 sieve.*
	50/4"			
550.34				
-25	50/5"			Hard, damp, gray, CLAY LOAM TILL.
	50/2"	1.2	10	
	50/1"	S		
547.84				
	19			Gray, fine grained, SAND. *16% passing #200 sieve.* 547.44
	29	9.7	8	Hard, damp, gray, CLAY LOAM TILL.
	40	B		
-30	12			
	18	9.7	11	
	29	B		
543.84				Extent of exploration.
-35				
-40				

Latitude W 88 deg 33.957 min, Longitude N 39 deg 07.707 min, Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\Boring log.dgn	USER NAME = bseibel	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS FOR SIGN TRUSS FOUNDATIONS
		DRAWN -	REVISED -		
	PLOT SCALE = 0.1667 ' / IN.	CHECKED -	REVISED -		SCALE: SHEET NO. 4 OF 7 SHEETS STA. TO STA.
	PLOT DATE = 3/18/2011	DATE -	REVISED -		

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	295
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 3/15/10

ROUTE I-57/70 DESCRIPTION Overhead Sign Truss locations LOGGED BY E. Sandschafer

SECTION Various LOCATION SE 1/4, SEC. 18, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S025I057L160.7
Station 2219+50

BORING NO. 9A (DL)
Station 2219+50
Offset 62.00ft Lt
Ground Surface Elev. 602.97 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 586.0 ft
Upon Completion 592.0 ft
After 24 Hrs. 597.0 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
10" asphalt shoulder on 11" crushed stone subbase.			
601.17			
Gray, CLAY.			
Skipped this trip.			
598.47			
-5 Soft, very damp, gray, SILTY CLAY.	3		
	3	0.3	24
	3	B	
595.97			
Medium, damp, gray marbled red, CLAY w/ trace Silt.	1		
	3	0.8	25
	4	B	
-10	1		
	3	0.8	23
	3	B	
590.97			
Stiff, damp, brown marbled gray, CLAY LOAM.	0		
	3	1.2	22
	3	B	
588.47			
-15 Soft, very damp, gray mottled red, SILTY LOAM.	0		
	2	0.3	22
	2	B	
585.97			
Hard, damp, gray, CLAY LOAM TILL.	1		
	11	2.8	8
	20	B	
-20	15		
-25	19		
	31	6.8	8
	41	S	
576.97			
Extent of exploration.			
-30			
-35			
-40			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard, damp, gray, CLAY LOAM TILL. *(continued)*	22	4.9	9
	29	S	
	11		
	24	5.3	7
	35	S	

Latitude N 39 deg 33.517 min, Longitude W 88 deg 08.323 min, Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 3/15/10

ROUTE I-57/70 DESCRIPTION Overhead Sign Truss locations LOGGED BY E. Sandschafer

SECTION Various LOCATION SE 1/4, SEC. 18, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S025I057L160.7
Station 2219+50

BORING NO. 9B (PL)
Station 2219+50
Offset 34.00ft Lt
Ground Surface Elev. 602.78 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion 590.0 ft
After 24 Hrs. 597.3 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6 1/4"asphalt on 10" concrete pavement on 6" gravel subbase.			
600.98			
Very stiff, damp, gray, CLAY.	4		
	2	2.8	18
	12	B	
598.28			
-5 Very stiff, damp, gray, SILTY CLAY.	5		
	8	3.6	16
	7	BS	
595.78			
Stiff, damp, gray mottled red, CLAY w/ trace Silt.	2		
	5	1.5	23
	5	B	
593.28			
-10 Medium to stiff, damp, gray marbled red, CLAY.	2		
	3	1.0	22
	4	B	
	1		
	2	0.7	23
	3	B	
588.28			
-15 Soft, very damp, red, SILTY LOAM w/ Sand.	0		
587.28	2	0.3	21
Red, wet, SANDY LOAM.	2	B	
585.78			
Hard, damp, gray, CLAY LOAM TILL.	9		
	23	6.4	9
	32	B	
583.28			
-20	14		
-25	42		
	46	7.2	8
576.78	50	S	
Extent of exploration.			
-30			
-35			
-40			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard, damp, gray, SANDY CLAY TILL. *(continued)*	22	5.9	9
	50/5"	S	
580.78			
Very stiff, damp, gray, SANDY LOAM TILL.	11		
	35	3.4	7
	50	S	
578.28			

Latitude N 39 deg 33.511 min, Longitude W 88 deg 08.319 min, Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\Boring log.dgn	USER NAME = bseibel	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 0.1667 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/18/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS FOR SIGN TRUSS FOUNDATIONS

SCALE: | SHEET NO. 5 OF 7 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	296
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 3/15/10

ROUTE I-57/70 DESCRIPTION Overhead Sign Truss locations LOGGED BY E. Sandschafer

SECTION Various LOCATION N 1/2, SEC. 17, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S025I057R161.3
Station 2249+25

BORING NO. 4A (DL)
Station 2249+25
Offset 62.00ft Rt
Ground Surface Elev. 602.70 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 588.2 ft
Upon Completion 588.7 ft
After 24 Hrs. 597.3 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				13 1/2" asphalt shoulder on 6" crushed stone subbase.
601.10				
				Gray, CLAY.
				Skipped this trip.
-5	4			
	5			*No recovery, rock in sampler shoe.*
	6			
595.70				
	2			Medium to stiff, damp, brown,
	3	1.0	20	CLAY LOAM.
	4	B		
593.20				
-10	2			Medium, damp, brown marbled red, CLAY.
	4	0.9	22	
	4	B		
590.70				
	2			Stiff, damp, red/brown/black/gray,
	3	1.1	20	SANDY CLAY LOAM.
	4	B		
588.20				
-15	0			Very soft, wet, red, SANDY LOAM.
	1	0.1	21	
	2	B		
585.70				
	12			Stiff, damp, gray, SANDY CLAY
	24	1.6	8	LOAM TILL, water in sampler.
	44	S		
583.20				
-20	17			
				Hard, very moist, gray, CLAY LOAM TILL. *(continued)*
	25	9.0	7	
	39	S		
	26			
	34	5.7	7	
	50/4"	S		
-25	29			
	38	8.7	9	
576.70	31	B		
				Extent of exploration.
-30				
-35				
-40				

Latitude W 88 deg 32.935 min, Longitude N 39 deg 08.540 min, Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 7/8/08

ROUTE I-57/70 DESCRIPTION Overhead Sign Truss locations LOGGED BY E. Sandschafer

SECTION Various LOCATION N 1/2, SEC. 17, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S025I057R161.3
Station 2249+25

BORING NO. 4B (PL)
Station 2249+25
Offset 5.00ft Rt
Ground Surface Elev. 600.99 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 585.1 ft
Upon Completion 586.0 ft
After 24 Hrs. 595.0 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				4" topsoil.
600.69				
				Brown, CLAY.
598.99				
	2			Medium to soft, damp, red
	2	0.8	28	marbled gray, SILTY CLAY LOAM.
	3	B		
-5	1			
	2	0.5	20	
	3	B		
593.99				
	1			Stiff, damp, red marbled gray,
	3	1.1	24	SILTY CLAY LOAM TILL.
	3	B		
591.49				
-10	1			Stiff, damp, red marbled tan,
	3	1.4	18	CLAY LOAM TILL.
590.39				
	4	B		Very soft, wet, tan, SILTY LOAM.
	0			
587.99				
	2	0.1	23	Hard, damp, brown, CLAY LOAM
	4	B		TILL.
586.49				
-15	13			Very stiff, damp, gray, SANDY
	19	3.0	10	CLAY TILL.
	41	S		
585.09				
				Gray, fine grained, SAND.
583.99				
	12			Hard, damp, gray, CLAY LOAM
	19	6.5	8	TILL.
	30	BS		
582.49				
				Extent of exploration.
-20				

Latitude W 88 deg 32.845 min, Longitude N 39 deg 08.548 min, Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\Boring log.dgn	USER NAME = bseibel	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 0.1667 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/18/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS FOR SIGN TRUSS FOUNDATIONS

SCALE: | SHEET NO. 6 OF 7 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	297
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 3/2/10

ROUTE I-57/70 DESCRIPTION Overhead Sign Truss locations LOGGED BY E. Sandschafer

SECTION Various LOCATION SE 1/4, SEC. 18, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S025I057L160.4
Station 26+98

BORING NO. 10A (North)
Station Keller A 27+01
Offset 10.00ft Rt
Ground Surface Elev. 608.99 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter Caved ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8" aggregate shoulder. 608.29			
Very stiff, damp, gray, CLAY TILL, embankment.	3		
	28	4.4	10
	11	S	
-5	13		
	14	3.0	15
	15	B	
	5		
	7	2.4	23
	6	B	
-10	3		
	4	1.0	25
	5	B	
596.99			
Medium, damp, gray, SILTY CLAY.	1		
	3	0.6	24
	3	B	
594.49			
Medium to stiff, damp, gray marbled red, CLAY. -15	1		
	3	1.0	24
	3	B	
591.99			
Stiff, damp, red marbled gray, CLAY TILL.	2		
	4	1.9	19
	6	B	
589.49			
-20	1		
Medium to hard, damp, gray marbled red, CLAY LOAM TILL. (continued)	3	0.8	20
	3	B	
	12		
	20	5.8	8
	24	B	
584.49			
Hard, damp, brown, SANDY CLAY TILL. -25	12		
	19	6.7	9
583.09	50/5"	S	
Extent of exploration.			
-30			
-35			
-40			

Latitude N 39 deg 33.774 min, Longitude W 88 deg 58.222 min, Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 3/2/10

ROUTE I-57/70 DESCRIPTION Overhead Sign Truss locations LOGGED BY E. Sandschafer

SECTION Various LOCATION SE 1/4, SEC. 18, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S025I057L160.4
Station 26+98

BORING NO. 10B (South)
Station Keller A 27+01
Offset 36.00ft Lt
Ground Surface Elev. 607.21 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion 595.2 ft
After 24 Hrs. 598.7 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8" aggregate shoulder. 606.51			
Stiff, damp, gray, CLAY.	5		
	4	1.2	18
	5	B	
-5	5		
	6	2.4	15
	9	B	
600.21			
Medium to stiff, damp, gray, SILTY LOAM.	2		
	4	1.0	22
	4	B	
597.71			
Stiff, damp, gray, CLAY w/ Silt. -10	2		
	4	1.4	23
	5	B	
595.21			
Medium, damp, gray marbled red, SILTY CLAY.	1		
	2	0.8	21
	4	B	
592.71			
Medium, damp, gray marbled red, CLAY. -15	1		
	2	0.9	23
	4	B	
590.21			
Medium, damp, red marbled gray, SANDY CLAY.	1		
	3	0.9	19
	4	B	
587.71			
Brown, soft, SILTY LOAM. -20	0		
Very stiff, damp, brown, SANDY CLAY TILL. 586.91	0	2.5	11
	8	B	
585.21			
Hard, damp, gray marbled red, SANDY CLAY.	13		
	22	7.9	9
	37	S	
582.71			
Hard, very moist, gray w/ red streaks, CLAY TILL. -25	26		
	43	7.7	7
581.31	50/5"	S	
Extent of exploration.			
-30			
-35			
-40			

Latitude N 39 deg 33.770 min, Longitude W 88 deg 58.215 min, Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

FILE NAME = S:\Projects\403-00072..ST-T0\dgn\ML_Keller\Boring log.dgn	USER NAME = bseibel	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS FOR SIGN TRUSS FOUNDATIONS
	PLOT SCALE = 0.1667 ' / IN.	DRAWN -	REVISED -		SCALE: SHEET NO. 7 OF 7 SHEETS STA. TO STA.
	PLOT DATE = 3/18/2011	CHECKED -	REVISED -		
		DATE -	REVISED -		

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	298
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LIGHTING SCHEDULE

PAY ITEM	DESCRIPTION	UNIT	TOTAL QUANTITY
	ELECTRIC SERVICE INSTALLATION	EACH	2
	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	385
	CONDUIT, PUSHED 2" DIA., PVC	FOOT	585
	CONDUIT, PUSHED 3" DIA., PVC	FOOT	220
	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	30
	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	13260
	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	4
	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 8" X 24" X 10"	EACH	11
	UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	376
	UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	5605
	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	5770
	UNIT DUCT, 600V, 4-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	600
	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	8200
	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	16364
	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	31208
	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	9230
	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	126
	LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 250 WATT	EACH	21
	UNDERPASS LUMINAIRE, 150 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	10
	SIGN LIGHTING (HIGH PRESSURE SODIUM)	EACH	18
	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 100AMP	EACH	1
	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP	EACH	1
	LIGHT POLE, ALUMINUM, 50 FT. M.H., 15 FT. DAVIT ARM	EACH	8
	LIGHT POLE, ALUMINUM, 45 FT. M.H., 8 FT. DAVIT ARM - TWIN	EACH	59
	LIGHT POLE, WEATHERING STEEL, 45 FT. M.H., TENON MOUNT	EACH	21
	LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 8" X 8'	EACH	29
	BREAKAWAY DEVICE, COUPLING, WITH STAINLESS STEEL SCREEN	EACH	116
	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	24
	REMOVAL OF POLE FOUNDATION	EACH	19
	REMOVAL OF LIGHTING CONTROLLER	EACH	2
	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	2
	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	2
	TEMPORARY LIGHTING SYSTEM	L SUM	1
	MODIFY EXISTING LIGHTING CONTROLLER	EACH	1
	LIGHT POLE FOUNDATION, INTEGRAL WITH BARRIER WALL	EACH	12
	LIGHT POLE FOUNDATION, SPECIAL	EACH	47
	LUMINAIRE, SODIUM VAPOR, POST TOP MOUNT, DECORATIVE, 50 WATT	EACH	10

GENERAL NOTES

1. ALL PROPOSED LIGHTING UNITS SHALL BE LABELED ACCORDING TO THE STANDARD SPECIFICATIONS, WITH POLE NUMBERS ATTACHED WITH STAINLESS STEEL BANDING. LIGHTING UNIT NUMBERING SHALL BE AS DIRECTED BY THE ENGINEER.

2. EXISTING LIGHT POLES AND FOUNDATIONS TO BE REMOVED, AND ALL ASSOCIATED HARDWARE AND APPURTENANCES, SHALL NOT BE SALVAGED BUT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF SITE AT THE CONTRACTOR'S EXPENSE.

3. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ELECTRICAL WORK WITH OTHER TRADES.

4. CONTRACTOR SHALL INSTALL LIGHT POLES AT THE LOCATIONS INDICATED ON THE PLANS, MAINTAINING ADEQUATE CLEARANCE FROM OVERHEAD UTILITY LINES. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY CLEARANCES PER THE NATIONAL ELECTRICAL SAFETY CODE AND/OR THE REQUIREMENTS OF THE UTILITY COMPANIES. THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE SHOWN FOR INFORMATION ONLY. REROUTING, DISCONNECTION, RELOCATION, PROTECTION ETC., OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

5. THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE "TRENCH AND BACKFILL FOR ELECTRICAL WORK" PAY ITEM.

6. PROPOSED LIGHT POLES ALONG THE RAMPS TO BE INSTALLED AT A 20 FEET SETBACK FROM THE EDGE OF TRAVELED PAVEMENT OR 4 FEET BEHIND THE GUARDRAIL UNLESS NOTED OTHERWISE ON THE PLANS. NO POLES SHALL BE INSTALLED IN THE FLOWLINE OF DITCH. POLE SETBACK TO BE ADJUSTED IF NECESSARY AS DIRECTED BY THE ENGINEER.

7. NO LIGHTING CIRCUIT OR PORTION THEREOF SHALL BE REMOVED FROM NIGHTTIME OPERATION WITHOUT APPROVAL OF THE ENGINEER.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE LIGHTING SYSTEM UNTIL IDOT HAS TAKEN ACCEPTANCE OF THE SYSTEM. ALL EXISTING CIRCUITS AND CABLES TO THE LIGHT POLES SHALL BE MAINTAINED AS NEEDED AND THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.

9. ALL RELOCATIONS AND ADJUSTMENTS TO EXISTING LIGHTING UNITS TO SERVE AS TEMPORARY LIGHTING DUE TO STAGING OR CONSTRUCTION SHALL BE MADE AT NO ADDITIONAL COST. ADDITIONAL AERIAL CABLE SPANS SHALL BE FURNISHED AND INSTALLED AS DIRECTED BY THE ENGINEER, AND THE COST OF THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.

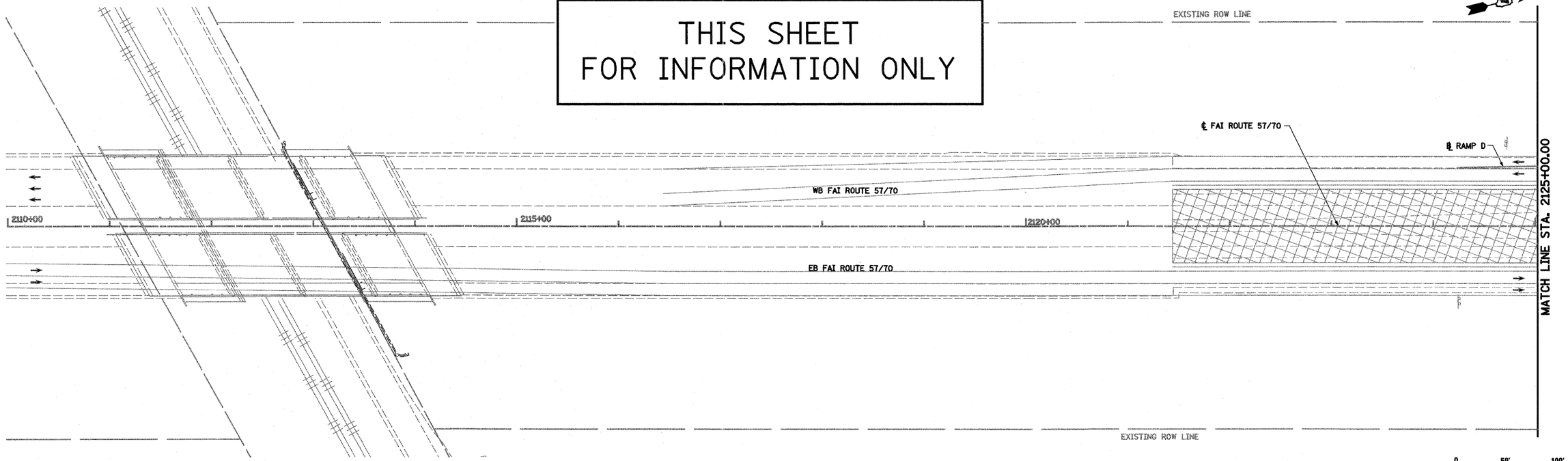
10. BREAKAWAY DEVICES SHALL NOT BE INSTALLED FOR POLES LOCATED BEHIND THE GUARDRAIL OR MOUNTED ON BRIDGE PARAPET WALLS.

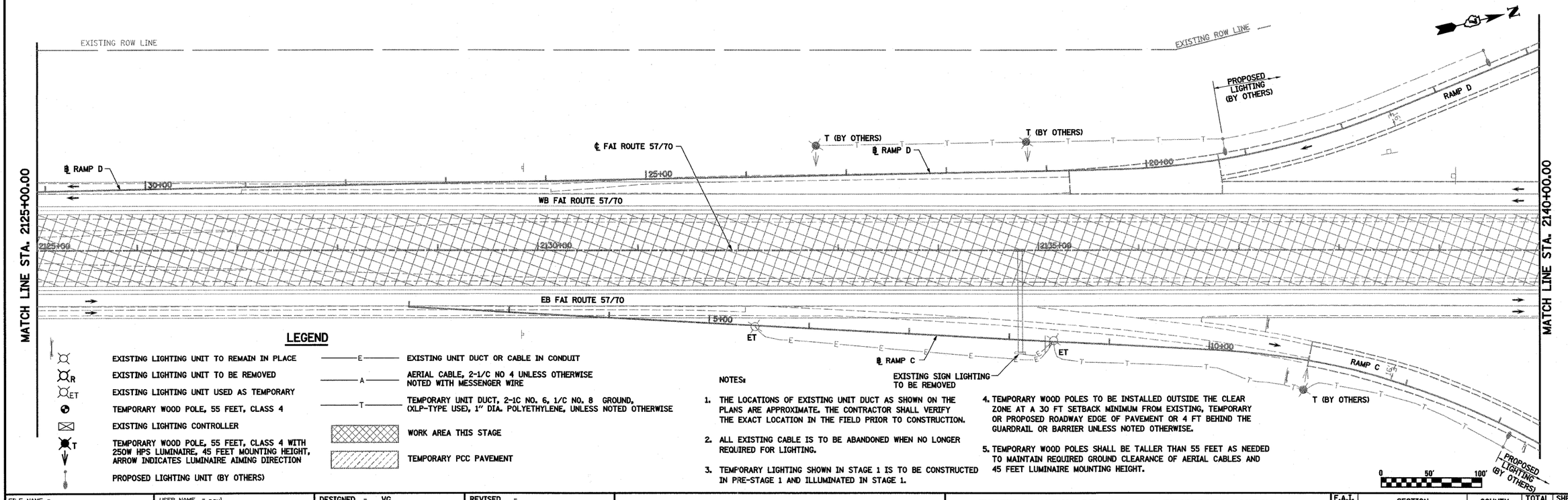
11. CONTRACTOR SHALL MODIFY THE EXISTING LIGHTING CONTROLLER AT FAYETTE AVE. AND REFEED CIRCUITS AS SHOWN IN THE PLANS. REARRANGE CIRCUIT BREAKERS AND USE SPARE BREAKERS AS NEEDED. THIS WORK SHALL BE PAID FOR AS "MODIFY EXISTING LIGHTING CONTROLLER" PAY ITEM.

12. CONTRACTOR SHALL RECONFIGURE EXISTING LIGHTING CIRCUITS AT KELLER DR. AND ADD ADDITIONAL LOAD AS SHOWN IN THE PLANS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF RESPECTIVE UNIT DUCT. CONTRACTOR SHALL TAKE INSULATION RESISTANCE MEASUREMENTS OF ALL EXISTING CIRCUITS BEFORE ANY MODIFICATIONS ARE MADE AND PROVIDE THE WRITTEN RESULTS TO THE ENGINEER. EXISTING CIRCUITS IN THE FAYETTE AVE. AND KELLER DR. LIGHTING CONTROLLERS NOT TESTED AND PROPERLY DOCUMENTED SHALL BE SUBJECT TO THE INSULATION REQUIREMENTS OF ARTICLE 801.13(a). AFTER THE PROPOSED CIRCUIT MODIFICATION ARE MADE THE CONTRACTOR SHALL TAKE MEASUREMENTS AGAIN FOR THAT PORTION OF THE CIRCUIT WHICH IS NEW. ALL CIRCUITS OR PARTIAL CIRCUITS WHICH ARE NEW SHALL BE TESTED AND MEET ARTICLE 801.13 REQUIREMENTS FOR TESTING. ANY WORK NECESSARY TO BRING THE CIRCUITS INTO COMPLIANCE SHALL BE AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL PAYMENT WILL BE ALLOWED.

LIGHTING INDEX

THIS SHEET FOR INFORMATION ONLY





LEGEND

- EXISTING LIGHTING UNIT TO REMAIN IN PLACE
- EXISTING LIGHTING UNIT TO BE REMOVED
- EXISTING LIGHTING UNIT USED AS TEMPORARY
- TEMPORARY WOOD POLE, 55 FEET, CLASS 4
- EXISTING LIGHTING CONTROLLER
- TEMPORARY WOOD POLE, 55 FEET, CLASS 4 WITH 250W HPS LUMINAIRE, 45 FEET MOUNTING HEIGHT, ARROW INDICATES LUMINAIRE AIMING DIRECTION
- PROPOSED LIGHTING UNIT (BY OTHERS)
- E — EXISTING UNIT DUCT OR CABLE IN CONDUIT
- A — AERIAL CABLE, 2-1/C NO 4 UNLESS OTHERWISE NOTED WITH MESSENGER WIRE
- T — TEMPORARY UNIT DUCT, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE, UNLESS NOTED OTHERWISE
- WORK AREA THIS STAGE
- TEMPORARY PCC PAVEMENT

NOTES:

1. THE LOCATIONS OF EXISTING UNIT DUCT AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN THE FIELD PRIOR TO CONSTRUCTION.
2. ALL EXISTING CABLE IS TO BE ABANDONED WHEN NO LONGER REQUIRED FOR LIGHTING.
3. TEMPORARY LIGHTING SHOWN IN STAGE 1 IS TO BE CONSTRUCTED IN PRE-STAGE 1 AND ILLUMINATED IN STAGE 1.
4. TEMPORARY WOOD POLES TO BE INSTALLED OUTSIDE THE CLEAR ZONE AT A 30 FT SETBACK MINIMUM FROM EXISTING, TEMPORARY OR PROPOSED ROADWAY EDGE OF PAVEMENT OR 4 FT BEHIND THE GUARDRAIL OR BARRIER UNLESS NOTED OTHERWISE.
5. TEMPORARY WOOD POLES SHALL BE TALLER THAN 55 FEET AS NEEDED TO MAINTAIN REQUIRED GROUND CLEARANCE OF AERIAL CABLES AND 45 FEET LUMINAIRE MOUNTING HEIGHT.

FILE NAME = S:\Projects\403-00072.57-70\dgn\ML_Keller\lighting_rem_mill_stage 1.dgn	USER NAME = paul	DESIGNED - VG	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 8-5-10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING REMOVAL AND TEMPORARY LIGHTING
FAI ROUTE 57/70, STAGE 1

SCALE: 1"=50' | SHEET NO. 2 OF 34 SHEETS | STA. 2121+44.00 TO STA. 2125+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	300
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		