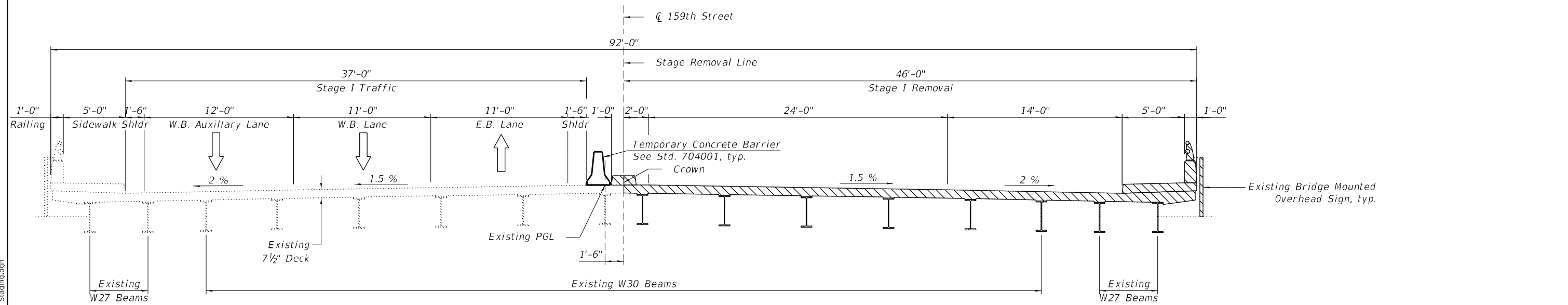
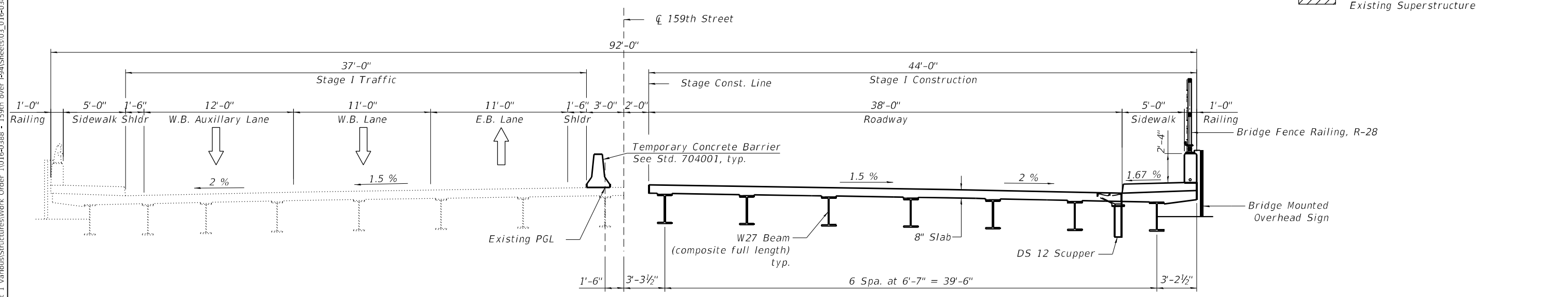


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STAGE I REMOVAL
 (Looking East)

LEGEND
 Removal of Existing Superstructure

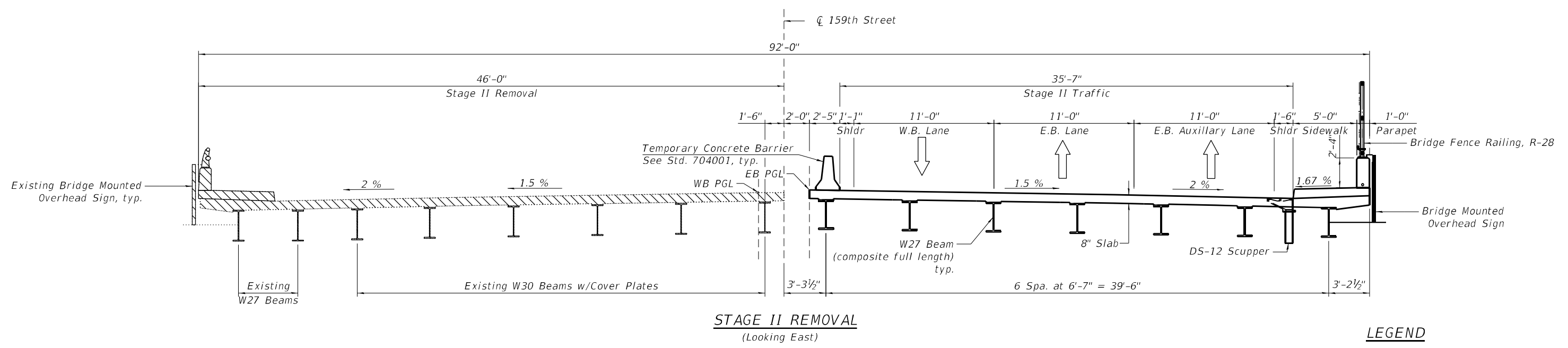


STAGE I CONSTRUCTION
 (Looking East)

Notes:
 For details of Temporary Concrete Barrier, see Sheet S10-05.
 For quantity of Temporary Concrete Barrier, see Roadway Plans.

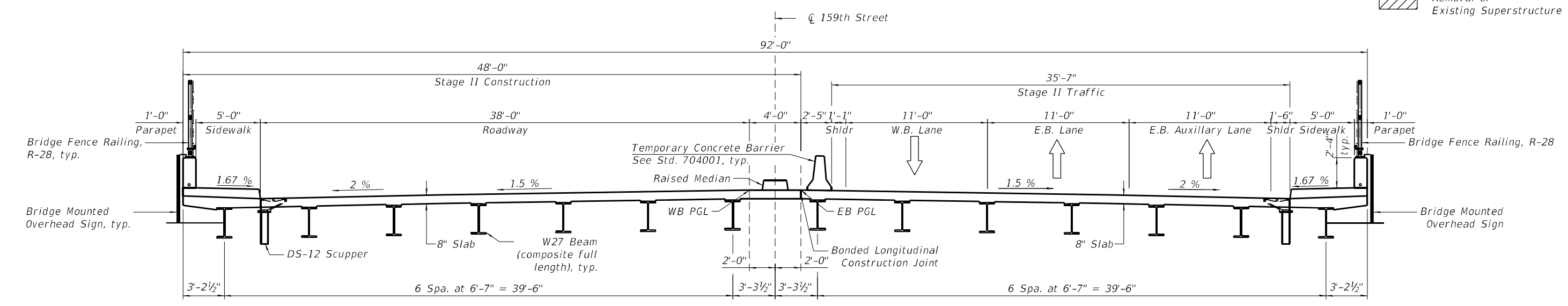
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	PLOT SCALE =	CHECKED - MGH	REVISED -			581	(42-B-11-1) BR, BJR 24	COOK	761	701
	PLOT DATE =	DRAWN - GM	REVISED -	SHEET S10-03 OF S10-37 SHEETS			CONTRACT NO. 62W87			
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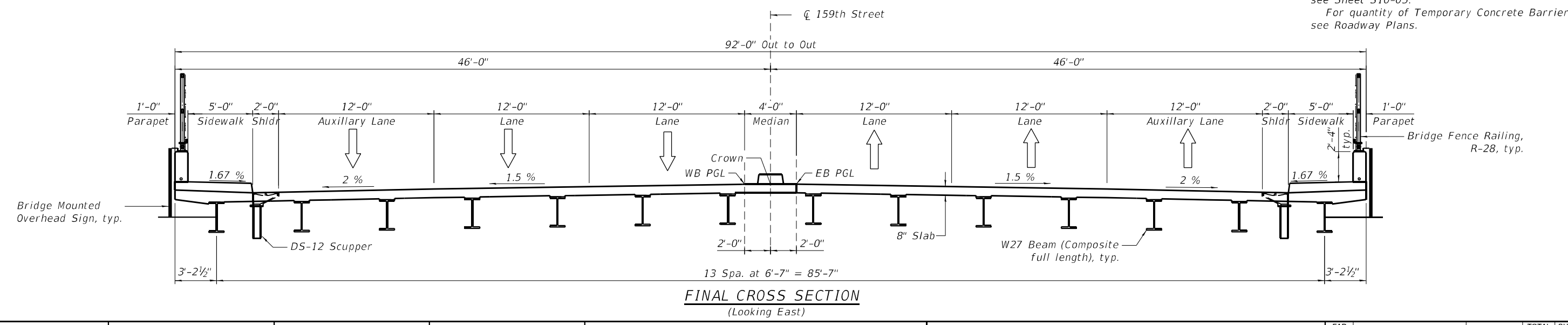
STAGE II REMOVAL
(Looking East)

LEGEND
 Removal of Existing Superstructure



STAGE II CONSTRUCTION
(Looking East)

Notes:
 For details of Temporary Concrete Barrier, see Sheet S10-05.
 For quantity of Temporary Concrete Barrier, see Roadway Plans.



FINAL CROSS SECTION
(Looking East)



USER NAME =	DESIGNED - BJD	REVISED -
	CHECKED - MGH	REVISED -
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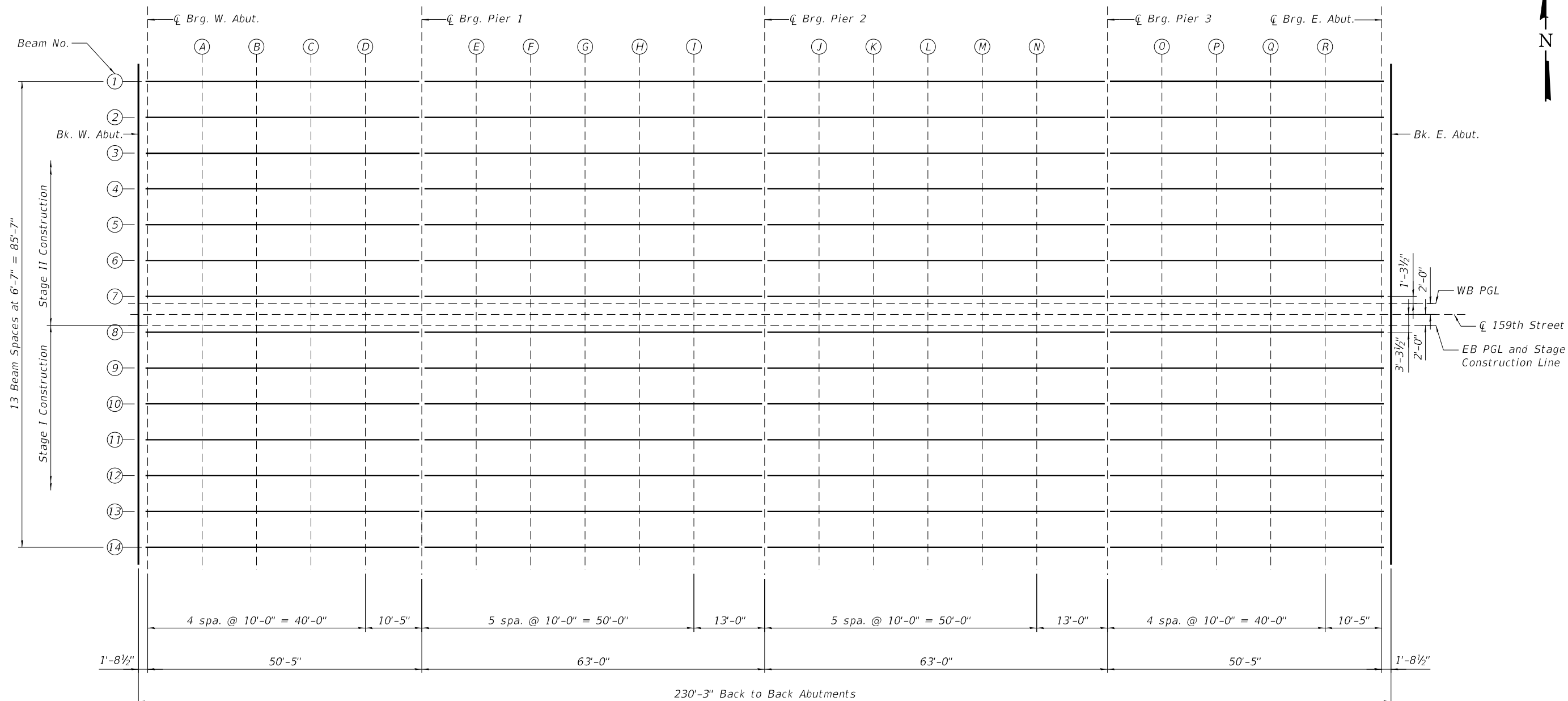
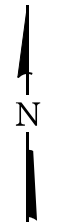
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS - 2
STRUCTURE NO. 016-0388

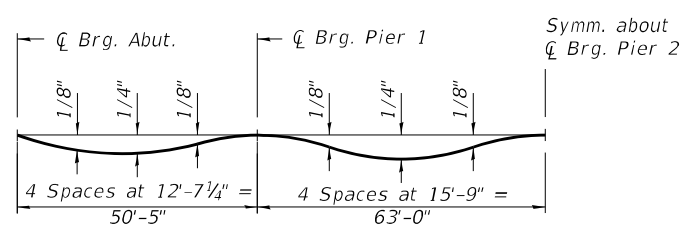
SHEET S10-04 OF S10-37 SHEETS

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
581	(42-B-11-1) BR, BJR 24	COOK	761	702
CONTRACT NO. 62W87				

ILLINOIS FED. AID PROJECT



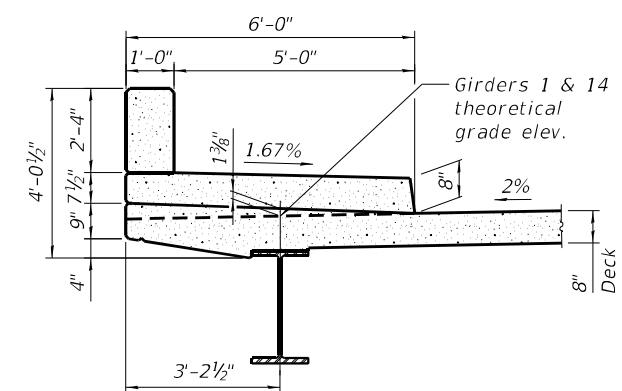
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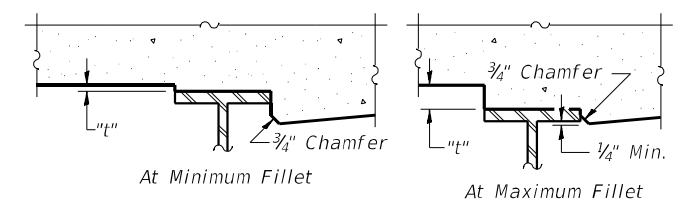
DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on Sheets S10-07 to S10-09 of S10-37.



SECTION THRU SIDEWALK



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheets S10-07 to S10-09 of S10-37, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

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USER NAME =	DESIGNED - BJD	REVISED -
	CHECKED - MGH	REVISED -
PLOT SCALE =	DRAWN - GM	REVISED -
PLOT DATE =	CHECKED - BJD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK SLAB ELEVATION LAYOUT
STRUCTURE NO. 016-0388

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
581	(42-B-11-1) BR, BJR 24	COOK	761	704
CONTRACT NO. 62W87				

SHEET S10-06 OF S10-37 SHEETS

ILLINOIS FED. AID PROJECT

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BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	1342 + 60.29	-42.79	614.45	614.45
CL Brg. W. Abut.	1342 + 62.00	-42.79	614.48	614.48
A	1342 + 72.00	-42.79	614.62	614.62
B	1342 + 82.00	-42.79	614.74	614.76
C	1342 + 92.00	-42.79	614.86	614.87
D	1343 + 02.00	-42.79	614.96	614.97
CL Brg. Pier 1	1343 + 12.42	-42.79	615.05	615.05
E	1343 + 22.42	-42.79	615.13	615.14
F	1343 + 32.42	-42.79	615.20	615.21
G	1343 + 42.42	-42.79	615.25	615.27
H	1343 + 52.42	-42.79	615.29	615.30
I	1343 + 62.42	-42.79	615.32	615.33
CL Brg. Pier 2	1343 + 75.42	-42.79	615.33	615.33
J	1343 + 85.42	-42.79	615.33	615.34
K	1343 + 95.42	-42.79	615.32	615.33
L	1344 + 05.42	-42.79	615.29	615.31
M	1344 + 15.42	-42.79	615.25	615.27
N	1344 + 25.42	-42.79	615.20	615.21
CL Brg. Pier 3	1344 + 38.42	-42.79	615.12	615.12
O	1344 + 48.42	-42.79	615.04	615.05
P	1344 + 58.42	-42.79	614.95	614.96
Q	1344 + 68.42	-42.79	614.84	614.86
R	1344 + 78.42	-42.79	614.73	614.74
CL Brg. E. Abut.	1344 + 88.83	-42.79	614.59	614.59
Bk. E. Abut.	1344 + 90.54	-42.79	614.57	614.57

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	1342 + 60.29	-36.21	614.58	614.58
CL Brg. W. Abut.	1342 + 62.00	-36.21	614.61	614.61
A	1342 + 72.00	-36.21	614.75	614.76
B	1342 + 82.00	-36.21	614.87	614.89
C	1342 + 92.00	-36.21	614.99	615.01
D	1343 + 02.00	-36.21	615.09	615.10
CL Brg. Pier 1	1343 + 12.42	-36.21	615.19	615.19
E	1343 + 22.42	-36.21	615.26	615.27
F	1343 + 32.42	-36.21	615.33	615.34
G	1343 + 42.42	-36.21	615.38	615.40
H	1343 + 52.42	-36.21	615.42	615.43
I	1343 + 62.42	-36.21	615.45	615.46
CL Brg. Pier 2	1343 + 75.42	-36.21	615.46	615.46
J	1343 + 85.42	-36.21	615.46	615.47
K	1343 + 95.42	-36.21	615.45	615.46
L	1344 + 05.42	-36.21	615.42	615.44
M	1344 + 15.42	-36.21	615.39	615.40
N	1344 + 25.42	-36.21	615.33	615.35
CL Brg. Pier 3	1344 + 38.42	-36.21	615.25	615.25
O	1344 + 48.42	-36.21	615.17	615.18
P	1344 + 58.42	-36.21	615.08	615.09
Q	1344 + 68.42	-36.21	614.97	614.99
R	1344 + 78.42	-36.21	614.86	614.87
CL Brg. E. Abut.	1344 + 88.83	-36.21	614.72	614.72
Bk. E. Abut.	1344 + 90.54	-36.21	614.70	614.70

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	1342 + 60.29	-29.63	614.71	614.71
CL Brg. W. Abut.	1342 + 62.00	-29.63	614.74	614.74
A	1342 + 72.00	-29.63	614.88	614.89
B	1342 + 82.00	-29.63	615.01	615.02
C	1342 + 92.00	-29.63	615.12	615.14
D	1343 + 02.00	-29.63	615.22	615.23
CL Brg. Pier 1	1343 + 12.42	-29.63	615.32	615.32
E	1343 + 22.42	-29.63	615.39	615.40
F	1343 + 32.42	-29.63	615.46	615.47
G	1343 + 42.42	-29.63	615.51	615.53
H	1343 + 52.42	-29.63	615.55	615.57
I	1343 + 62.42	-29.63	615.58	615.59
CL Brg. Pier 2	1343 + 75.42	-29.63	615.60	615.60
J	1343 + 85.42	-29.63	615.59	615.60
K	1343 + 95.42	-29.63	615.58	615.59
L	1344 + 05.42	-29.63	615.56	615.57
M	1344 + 15.42	-29.63	615.52	615.53
N	1344 + 25.42	-29.63	615.47	615.48
CL Brg. Pier 3	1344 + 38.42	-29.63	615.38	615.38
O	1344 + 48.42	-29.63	615.30	615.31
P	1344 + 58.42	-29.63	615.21	615.23
Q	1344 + 68.42	-29.63	615.11	615.12
R	1344 + 78.42	-29.63	614.99	615.00
CL Brg. E. Abut.	1344 + 88.83	-29.63	614.85	614.85
Bk. E. Abut.	1344 + 90.54	-29.63	614.83	614.83

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	1342 + 60.29	-23.04	614.83	614.83
CL Brg. W. Abut.	1342 + 62.00	-23.04	614.86	614.86
A	1342 + 72.00	-23.04	615.00	615.00
B	1342 + 82.00	-23.04	615.12	615.14
C	1342 + 92.00	-23.04	615.24	615.26
D	1343 + 02.00	-23.04	615.34	615.35
CL Brg. Pier 1	1343 + 12.42	-23.04	615.43	615.43
E	1343 + 22.42	-23.04	615.51	615.52
F	1343 + 32.42	-23.04	615.58	615.59
G	1343 + 42.42	-23.04	615.63	615.65
H	1343 + 52.42	-23.04	615.67	615.68
I	1343 + 62.42	-23.04	615.70	615.71
CL Brg. Pier 2	1343 + 75.42	-23.04	615.71	615.71
J	1343 + 85.42	-23.04	615.71	615.72
K	1343 + 95.42	-23.04	615.70	615.71
L	1344 + 05.42	-23.04	615.67	615.69
M	1344 + 15.42	-23.04	615.63	615.65
N	1344 + 25.42	-23.04	615.58	615.59
CL Brg. Pier 3	1344 + 38.42	-23.04	615.50	615.50
O	1344 + 48.42	-23.04	615.42	615.43
P	1344 + 58.42	-23.04	615.33	615.34
Q	1344 + 68.42	-23.04	615.22	615.24
R	1344 + 78.42	-23.04	615.11	615.12
CL Brg. E. Abut.	1344 + 88.83	-23.04	614.97	614.97
Bk. E. Abut.	1344 + 90.54	-23.04	614.95	614.95

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	1342 + 60.29	-16.46	614.93	614.93
CL Brg. W. Abut.	1342 + 62.00	-16.46	614.96	614.96
A	1342 + 72.00	-16.46	615.09	615.10
B	1342 + 82.00	-16.46	615.22	615.24
C	1342 + 92.00	-16.46	615.34	615.35
D	1343 + 02.00	-16.46	615.44	615.45
CL Brg. Pier 1	1343 + 12.42	-16.46	615.53	615.53
E	1343 + 22.42	-16.46	615.61	615.62
F	1343 + 32.42	-16.46	615.67	615.69
G	1343 + 42.42	-16.46	615.73	615.75
H	1343 + 52.42	-16.46	615.77	615.78
I	1343 + 62.42	-16.46	615.79	615.81
CL Brg. Pier 2	1343 + 75.42	-16.46	615.81	615.81
J	1343 + 85.42	-16.46	615.81	615.82
K	1343 + 95.42	-16.46	615.80	615.81
L	1344 + 05.42	-16.46	615.77	615.79
M	1344 + 15.42	-16.46	615.73	615.75
N	1344 + 25.42	-16.46	615.68	615.69
CL Brg. Pier 3	1344 + 38.42	-16.46	615.60	615.60
O	1344 + 48.42	-16.46	615.52	615.53
P	1344 + 58.42	-16.46	615.43	615.44
Q	1344 + 68.42	-16.46	615.32	615.34
R	1344 + 78.42	-16.46	615.20	615.22
CL Brg. E. Abut.	1344 + 88.83	-16.46	615.07	615.07
Bk. E. Abut.	1344 + 90.54	-16.46	615.05	615.05

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	1342 + 60.29	-9.88	615.03	615.03
CL Brg. W. Abut.	1342 + 62.00	-9.88	615.05	615.05
A	1342 + 72.00	-9.88	615.19	615.20
B	1342 + 82.00	-9.88	615.32	615.34
C	1342 + 92.00	-9.88	615.44	615.45
D	1343 + 02.00	-9.88	615.54	615.55
CL Brg. Pier 1	1343 + 12.42	-9.88	615.63	615.63
E	1343 + 22.42	-9.88	615.71	615.72
F	1343 + 32.42	-9.88	615.77	615.79
G	1343 + 42.42	-9.88	615.83	615.85
H	1343 + 52.42	-9.88	615.87	615.88
I	1343 + 62.42	-9.88	615.89	615.90
CL Brg. Pier 2	1343 + 75.42	-9.88	615.91	615.91
J	1343 + 85.42	-9.88	615.91	615.92
K	1343 + 95.42	-9.88	615.90	615.91
L	1344 + 05.42	-9.88	615.87	615.89
M	1344 + 15.42	-9.88	615.83	615.85
N	1344 + 25.42	-9.88	615.78	615.79
CL Brg. Pier 3	1344 + 38.42	-9.88	615.70	615.70
O	1344 + 48.42	-9.88	615.62	615.62
P	1344 + 58.42	-9.88	615.52	615.54
Q	1344 + 68.42	-9.88	615.42	615.44
R	1344 + 78.42	-9.88	615.30	615.31
CL Brg. E. Abut.	1344 + 88.83	-9.88	615.17	615.17
Bk. E. Abut.	1344 + 90.54	-9.88	615.15	615.15

Notes:
 1. Offsets are measured with respect to the Centerline.
 2. Negative offsets are left of the centerline while looking upstation.
 3. All Elevations and Offsets are in feet.

E-S 2-17-2017



USER NAME =	DESIGNED - BJD	REVISED -
PLOT SCALE =	CHECKED - MGH	REVISED -
PLOT DATE =	DRAWN - GM	REVISED -
	CHECKED - BJD	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS - 1
 STRUCTURE NO. 016-0388

SHEET S10-07 OF S10-37 SHEETS

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
581	(42-B-11-1) BR. BUR 24	COOK	761	705
CONTRACT NO. 62W87				
ILLINOIS		FED. AID PROJECT		

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BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	1342 + 60.29	-3.29	615.13	615.13
CL Brg. W. Abut.	1342 + 62.00	-3.29	615.15	615.15
A	1342 + 72.00	-3.29	615.29	615.30
B	1342 + 82.00	-3.29	615.42	615.44
C	1342 + 92.00	-3.29	615.53	615.55
D	1343 + 02.00	-3.29	615.64	615.65
CL Brg. Pier 1	1343 + 12.42	-3.29	615.73	615.73
E	1343 + 22.42	-3.29	615.81	615.81
F	1343 + 32.42	-3.29	615.87	615.89
G	1343 + 42.42	-3.29	615.92	615.94
H	1343 + 52.42	-3.29	615.96	615.98
I	1343 + 62.42	-3.29	615.99	616.00
CL Brg. Pier 2	1343 + 75.42	-3.29	616.01	616.01
J	1343 + 85.42	-3.29	616.01	616.01
K	1343 + 95.42	-3.29	615.99	616.01
L	1344 + 05.42	-3.29	615.97	615.99
M	1344 + 15.42	-3.29	615.93	615.95
N	1344 + 25.42	-3.29	615.88	615.89
CL Brg. Pier 3	1344 + 38.42	-3.29	615.79	615.79
O	1344 + 48.42	-3.29	615.72	615.72
P	1344 + 58.42	-3.29	615.62	615.64
Q	1344 + 68.42	-3.29	615.52	615.54
R	1344 + 78.42	-3.29	615.40	615.41
CL Brg. E. Abut.	1344 + 88.83	-3.29	615.27	615.27
Bk. E. Abut.	1344 + 90.54	-3.29	615.24	615.24

WB PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	1342 + 60.29	-2.00	615.15	615.15
CL Brg. W. Abut.	1342 + 62.00	-2.00	615.17	615.17
A	1342 + 72.00	-2.00	615.31	615.32
B	1342 + 82.00	-2.00	615.44	615.46
C	1342 + 92.00	-2.00	615.55	615.57
D	1343 + 02.00	-2.00	615.66	615.67
CL Brg. Pier 1	1343 + 12.42	-2.00	615.75	615.75
E	1343 + 22.42	-2.00	615.83	615.83
F	1343 + 32.42	-2.00	615.89	615.90
G	1343 + 42.42	-2.00	615.94	615.96
H	1343 + 52.42	-2.00	615.98	616.00
I	1343 + 62.42	-2.00	616.01	616.02
CL Brg. Pier 2	1343 + 75.42	-2.00	616.03	616.03
J	1343 + 85.42	-2.00	616.03	616.03
K	1343 + 95.42	-2.00	616.01	616.03
L	1344 + 05.42	-2.00	615.99	616.01
M	1344 + 15.42	-2.00	615.95	615.96
N	1344 + 25.42	-2.00	615.90	615.91
CL Brg. Pier 3	1344 + 38.42	-2.00	615.81	615.81
O	1344 + 48.42	-2.00	615.73	615.74
P	1344 + 58.42	-2.00	615.64	615.66
Q	1344 + 68.42	-2.00	615.54	615.56
R	1344 + 78.42	-2.00	615.42	615.43
CL Brg. E. Abut.	1344 + 88.83	-2.00	615.29	615.29
Bk. E. Abut.	1344 + 90.54	-2.00	615.26	615.26

CL 159TH ST.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	342 + 60.29	0.00	615.11	615.12
CL Brg. W. Abut.	342 + 62.00	0.00	615.14	615.14
A	342 + 72.00	0.00	615.28	615.29
B	342 + 82.00	0.00	615.40	615.42
C	342 + 92.00	0.00	615.52	615.54
D	343 + 02.00	0.00	615.62	615.64
CL Brg. Pier 1	343 + 12.42	0.00	615.72	615.72
E	343 + 22.42	0.00	615.79	615.80
F	343 + 32.42	0.00	615.86	615.88
G	343 + 42.42	0.00	615.91	615.94
H	343 + 52.42	0.00	615.95	615.97
I	343 + 62.42	0.00	615.98	616.00
CL Brg. Pier 2	343 + 75.42	0.00	616.00	616.00
J	343 + 85.42	0.00	616.00	616.01
K	343 + 95.42	0.00	615.98	616.00
L	344 + 05.42	0.00	615.96	615.98
M	344 + 15.42	0.00	615.92	615.94
N	344 + 25.42	0.00	615.87	615.89
CL Brg. Pier 3	344 + 38.42	0.00	615.79	615.79
O	344 + 48.42	0.00	615.71	615.72
P	344 + 58.42	0.00	615.62	615.64
Q	344 + 68.42	0.00	615.51	615.53
R	344 + 78.42	0.00	615.40	615.41
CL Brg. E. Abut.	344 + 88.83	0.00	615.26	615.27
Bk. E. Abut.	344 + 90.54	0.00	615.24	615.24

EB PGL AND STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	2342 + 60.29	2.00	615.08	615.08
CL Brg. W. Abut.	2342 + 62.00	2.00	615.11	615.11
A	2342 + 72.00	2.00	615.25	615.26
B	2342 + 82.00	2.00	615.38	615.39
C	2342 + 92.00	2.00	615.49	615.51
D	2343 + 02.00	2.00	615.60	615.61
CL Brg. Pier 1	2343 + 12.42	2.00	615.69	615.69
E	2343 + 22.42	2.00	615.77	615.78
F	2343 + 32.42	2.00	615.84	615.85
G	2343 + 42.42	2.00	615.89	615.91
H	2343 + 52.42	2.00	615.93	615.94
I	2343 + 62.42	2.00	615.96	615.97
CL Brg. Pier 2	2343 + 75.42	2.00	615.98	615.98
J	2343 + 85.42	2.00	615.98	615.98
K	2343 + 95.42	2.00	615.96	615.98
L	2344 + 05.42	2.00	615.94	615.96
M	2344 + 15.42	2.00	615.90	615.92
N	2344 + 25.42	2.00	615.85	615.86
CL Brg. Pier 3	2344 + 38.42	2.00	615.77	615.77
O	2344 + 48.42	2.00	615.69	615.70
P	2344 + 58.42	2.00	615.60	615.62
Q	2344 + 68.42	2.00	615.50	615.51
R	2344 + 78.42	2.00	615.38	615.39
CL Brg. E. Abut.	2344 + 88.83	2.00	615.25	615.25
Bk. E. Abut.	2344 + 90.54	2.00	615.22	615.22

BEAM 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	2342 + 60.29	3.29	615.06	615.06
CL Brg. W. Abut.	2342 + 62.00	3.29	615.09	615.09
A	2342 + 72.00	3.29	615.23	615.24
B	2342 + 82.00	3.29	615.36	615.37
C	2342 + 92.00	3.29	615.47	615.49
D	2343 + 02.00	3.29	615.58	615.59
CL Brg. Pier 1	2343 + 12.42	3.29	615.67	615.67
E	2343 + 22.42	3.29	615.75	615.76
F	2343 + 32.42	3.29	615.82	615.83
G	2343 + 42.42	3.29	615.87	615.89
H	2343 + 52.42	3.29	615.91	615.93
I	2343 + 62.42	3.29	615.94	615.95
CL Brg. Pier 2	2343 + 75.42	3.29	615.96	615.96
J	2343 + 85.42	3.29	615.96	615.96
K	2343 + 95.42	3.29	615.94	615.96
L	2344 + 05.42	3.29	615.92	615.94
M	2344 + 15.42	3.29	615.88	615.90
N	2344 + 25.42	3.29	615.83	615.84
CL Brg. Pier 3	2344 + 38.42	3.29	615.75	615.75
O	2344 + 48.42	3.29	615.67	615.68
P	2344 + 58.42	3.29	615.58	615.60
Q	2344 + 68.42	3.29	615.48	615.49
R	2344 + 78.42	3.29	615.36	615.37
CL Brg. E. Abut.	2344 + 88.83	3.29	615.23	615.23
Bk. E. Abut.	2344 + 90.54	3.29	615.20	615.20

BEAM 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	2342 + 60.29	9.88	614.97	614.97
CL Brg. W. Abut.	2342 + 62.00	9.88	614.99	614.99
A	2342 + 72.00	9.88	615.13	615.14
B	2342 + 82.00	9.88	615.26	615.28
C	2342 + 92.00	9.88	615.38	615.39
D	2343 + 02.00	9.88	615.48	615.49
CL Brg. Pier 1	2343 + 12.42	9.88	615.57	615.57
E	2343 + 22.42	9.88	615.65	615.66
F	2343 + 32.42	9.88	615.72	615.73
G	2343 + 42.42	9.88	615.77	615.79
H	2343 + 52.42	9.88	615.81	615.83
I	2343 + 62.42	9.88	615.84	615.85
CL Brg. Pier 2	2343 + 75.42	9.88	615.86	615.86
J	2343 + 85.42	9.88	615.86	615.86
K	2343 + 95.42	9.88	615.85	615.86
L	2344 + 05.42	9.88	615.82	615.84
M	2344 + 15.42	9.88	615.78	615.80
N	2344 + 25.42	9.88	615.73	615.74
CL Brg. Pier 3	2344 + 38.42	9.88	615.65	615.65
O	2344 + 48.42	9.88	615.57	615.58
P	2344 + 58.42	9.88	615.48	615.50
Q	2344 + 68.42	9.88	615.38	615.39
R	2344 + 78.42	9.88	615.26	615.27
CL Brg. E. Abut.	2344 + 88.83	9.88	615.13	615.13
Bk. E. Abut.	2344 + 90.54	9.88	615.11	615.11

- Notes:
 1. Offsets are measured with respect to the Centerline.
 2. Negative offsets are left of the centerline while looking upstation.
 3. All Elevations and Offsets are in feet.

E-S 2-17-2017



USER NAME =	DESIGNED - BJD	REVISED -
	CHECKED - MGH	REVISED -
PLOT SCALE =	DRAWN - GM	REVISED -
PLOT DATE =	CHECKED - BJD	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS - 2
STRUCTURE NO. 016-0388**

SHEET S10-08 OF S10-37 SHEETS

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
581	(42-B-11-1) BR. BUR 24	COOK	761	706
CONTRACT NO. 62W87				
ILLINOIS		FED. AID PROJECT		

MODEL: Default
 FILE NAME: p:\wsp-us-pw-bentley.com\wsp-us-pw-bentley.com\Projects\DOT 2050082201 - IDOT District 1 - Various Structures\Work Order 1\016-0388 - 159th over I-94\Sheets\09_016-0388 - Top of Deck Slab Elevations 3.dgn

BEAM 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	2342 + 60.29	16.46	614.87	614.87
CL Brg. W. Abut.	2342 + 62.00	16.46	614.89	614.89
A	2342 + 72.00	16.46	615.03	615.04
B	2342 + 82.00	16.46	615.16	615.18
C	2342 + 92.00	16.46	615.28	615.29
D	2343 + 02.00	16.46	615.38	615.39
CL Brg. Pier 1	2343 + 12.42	16.46	615.47	615.47
E	2343 + 22.42	16.46	615.55	615.56
F	2343 + 32.42	16.46	615.62	615.63
G	2343 + 42.42	16.46	615.67	615.69
H	2343 + 52.42	16.46	615.71	615.73
I	2343 + 62.42	16.46	615.74	615.75
CL Brg. Pier 2	2343 + 75.42	16.46	615.76	615.76
J	2343 + 85.42	16.46	615.76	615.77
K	2343 + 95.42	16.46	615.75	615.76
L	2344 + 05.42	16.46	615.72	615.74
M	2344 + 15.42	16.46	615.68	615.70
N	2344 + 25.42	16.46	615.63	615.65
CL Brg. Pier 3	2344 + 38.42	16.46	615.55	615.55
O	2344 + 48.42	16.46	615.47	615.48
P	2344 + 58.42	16.46	615.38	615.40
Q	2344 + 68.42	16.46	615.28	615.30
R	2344 + 78.42	16.46	615.16	615.17
CL Brg. E. Abut.	2344 + 88.83	16.46	615.03	615.03
Bk. E. Abut.	2344 + 90.54	16.46	615.01	615.01

BEAM 11

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	2342 + 60.29	23.04	614.77	614.77
CL Brg. W. Abut.	2342 + 62.00	23.04	614.79	614.79
A	2342 + 72.00	23.04	614.93	614.94
B	2342 + 82.00	23.04	615.06	615.08
C	2342 + 92.00	23.04	615.18	615.19
D	2343 + 02.00	23.04	615.28	615.29
CL Brg. Pier 1	2343 + 12.42	23.04	615.38	615.38
E	2343 + 22.42	23.04	615.45	615.46
F	2343 + 32.42	23.04	615.52	615.53
G	2343 + 42.42	23.04	615.57	615.59
H	2343 + 52.42	23.04	615.61	615.63
I	2343 + 62.42	23.04	615.64	615.65
CL Brg. Pier 2	2343 + 75.42	23.04	615.66	615.66
J	2343 + 85.42	23.04	615.66	615.67
K	2343 + 95.42	23.04	615.65	615.66
L	2344 + 05.42	23.04	615.62	615.64
M	2344 + 15.42	23.04	615.59	615.60
N	2344 + 25.42	23.04	615.54	615.55
CL Brg. Pier 3	2344 + 38.42	23.04	615.45	615.45
O	2344 + 48.42	23.04	615.37	615.38
P	2344 + 58.42	23.04	615.28	615.30
Q	2344 + 68.42	23.04	615.18	615.20
R	2344 + 78.42	23.04	615.06	615.08
CL Brg. E. Abut.	2344 + 88.83	23.04	614.93	614.93
Bk. E. Abut.	2344 + 90.54	23.04	614.91	614.91

BEAM 12

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	2342 + 60.29	29.63	614.65	614.65
CL Brg. W. Abut.	2342 + 62.00	29.63	614.68	614.68
A	2342 + 72.00	29.63	614.82	614.83
B	2342 + 82.00	29.63	614.95	614.96
C	2342 + 92.00	29.63	615.06	615.08
D	2343 + 02.00	29.63	615.16	615.18
CL Brg. Pier 1	2343 + 12.42	29.63	615.26	615.26
E	2343 + 22.42	29.63	615.34	615.34
F	2343 + 32.42	29.63	615.40	615.42
G	2343 + 42.42	29.63	615.46	615.48
H	2343 + 52.42	29.63	615.50	615.51
I	2343 + 62.42	29.63	615.53	615.54
CL Brg. Pier 2	2343 + 75.42	29.63	615.54	615.54
J	2343 + 85.42	29.63	615.54	615.55
K	2343 + 95.42	29.63	615.53	615.54
L	2344 + 05.42	29.63	615.51	615.53
M	2344 + 15.42	29.63	615.47	615.48
N	2344 + 25.42	29.63	615.42	615.43
CL Brg. Pier 3	2344 + 38.42	29.63	615.34	615.34
O	2344 + 48.42	29.63	615.26	615.27
P	2344 + 58.42	29.63	615.17	615.18
Q	2344 + 68.42	29.63	615.06	615.08
R	2344 + 78.42	29.63	614.95	614.96
CL Brg. E. Abut.	2344 + 88.83	29.63	614.81	614.81
Bk. E. Abut.	2344 + 90.54	29.63	614.79	614.79

BEAM 13

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	2342 + 60.29	36.21	614.52	614.52
CL Brg. W. Abut.	2342 + 62.00	36.21	614.54	614.54
A	2342 + 72.00	36.21	614.69	614.69
B	2342 + 82.00	36.21	614.81	614.83
C	2342 + 92.00	36.21	614.93	614.95
D	2343 + 02.00	36.21	615.03	615.04
CL Brg. Pier 1	2343 + 12.42	36.21	615.13	615.13
E	2343 + 22.42	36.21	615.21	615.21
F	2343 + 32.42	36.21	615.27	615.28
G	2343 + 42.42	36.21	615.32	615.34
H	2343 + 52.42	36.21	615.37	615.38
I	2343 + 62.42	36.21	615.39	615.40
CL Brg. Pier 2	2343 + 75.42	36.21	615.41	615.41
J	2343 + 85.42	36.21	615.41	615.42
K	2343 + 95.42	36.21	615.40	615.41
L	2344 + 05.42	36.21	615.37	615.39
M	2344 + 15.42	36.21	615.34	615.35
N	2344 + 25.42	36.21	615.29	615.30
CL Brg. Pier 3	2344 + 38.42	36.21	615.20	615.20
O	2344 + 48.42	36.21	615.13	615.13
P	2344 + 58.42	36.21	615.03	615.05
Q	2344 + 68.42	36.21	614.93	614.95
R	2344 + 78.42	36.21	614.82	614.83
CL Brg. E. Abut.	2344 + 88.83	36.21	614.68	614.68
Bk. E. Abut.	2344 + 90.54	36.21	614.66	614.66

BEAM 14

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	2342 + 60.29	42.79	614.39	614.39
CL Brg. W. Abut.	2342 + 62.00	42.79	614.41	614.41
A	2342 + 72.00	42.79	614.55	614.56
B	2342 + 82.00	42.79	614.68	614.70
C	2342 + 92.00	42.79	614.80	614.81
D	2343 + 02.00	42.79	614.90	614.91
CL Brg. Pier 1	2343 + 12.42	42.79	615.00	615.00
E	2343 + 22.42	42.79	615.07	615.08
F	2343 + 32.42	42.79	615.14	615.15
G	2343 + 42.42	42.79	615.19	615.21
H	2343 + 52.42	42.79	615.23	615.25
I	2343 + 62.42	42.79	615.26	615.27
CL Brg. Pier 2	2343 + 75.42	42.79	615.28	615.28
J	2343 + 85.42	42.79	615.28	615.29
K	2343 + 95.42	42.79	615.27	615.28
L	2344 + 05.42	42.79	615.24	615.26
M	2344 + 15.42	42.79	615.21	615.22
N	2344 + 25.42	42.79	615.16	615.17
CL Brg. Pier 3	2344 + 38.42	42.79	615.07	615.07
O	2344 + 48.42	42.79	614.99	615.00
P	2344 + 58.42	42.79	614.90	614.92
Q	2344 + 68.42	42.79	614.80	614.82
R	2344 + 78.42	42.79	614.68	614.70
CL Brg. E. Abut.	2344 + 88.83	42.79	614.55	614.55
Bk. E. Abut.	2344 + 90.54	42.79	614.53	614.53

- Notes:
 1. Offsets are measured with respect to the Centerline.
 2. Negative offsets are left of the centerline while looking upstation.
 3. All Elevations and Offsets are in feet.

E-S 2-17-2017

	USER NAME =	DESIGNED - BJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SLAB ELEVATIONS - 3 STRUCTURE NO. 016-0388	FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED - MGH	REVISED -	581			(42-B-11-1) BR. BUR 24	COOK	761	707	
	PLOT SCALE =	DRAWN - GM	REVISED -			CONTRACT NO. 62W87				
	PLOT DATE =	CHECKED - BJD	REVISED -			SHEET S10-09 OF S10-37 SHEETS				
						ILLINOIS FED. AID PROJECT				

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	1342 + 30.54	-40.00	614.01
A1	1342 + 40.54	-40.00	614.19
A2	1342 + 50.54	-40.00	614.36
E. End of W. Approach	1342 + 60.54	-40.00	614.51

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	1342 + 30.54	-38.00	614.07
A1	1342 + 40.54	-38.00	614.25
A2	1342 + 50.54	-38.00	614.42
E. End of W. Approach	1342 + 60.54	-38.00	614.57

WB PGL

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	1342 + 30.54	-2.00	614.65
A1	1342 + 40.54	-2.00	614.83
A2	1342 + 50.54	-2.00	615.00
E. End of W. Approach	1342 + 60.54	-2.00	615.15

CL 159TH ST

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	342 + 30.54	0.00	614.62
A1	342 + 40.54	0.00	614.80
A2	342 + 50.54	0.00	614.96
E. End of W. Approach	342 + 60.54	0.00	615.12

EB PGL AND STAGE CONSTRUCTION LINE

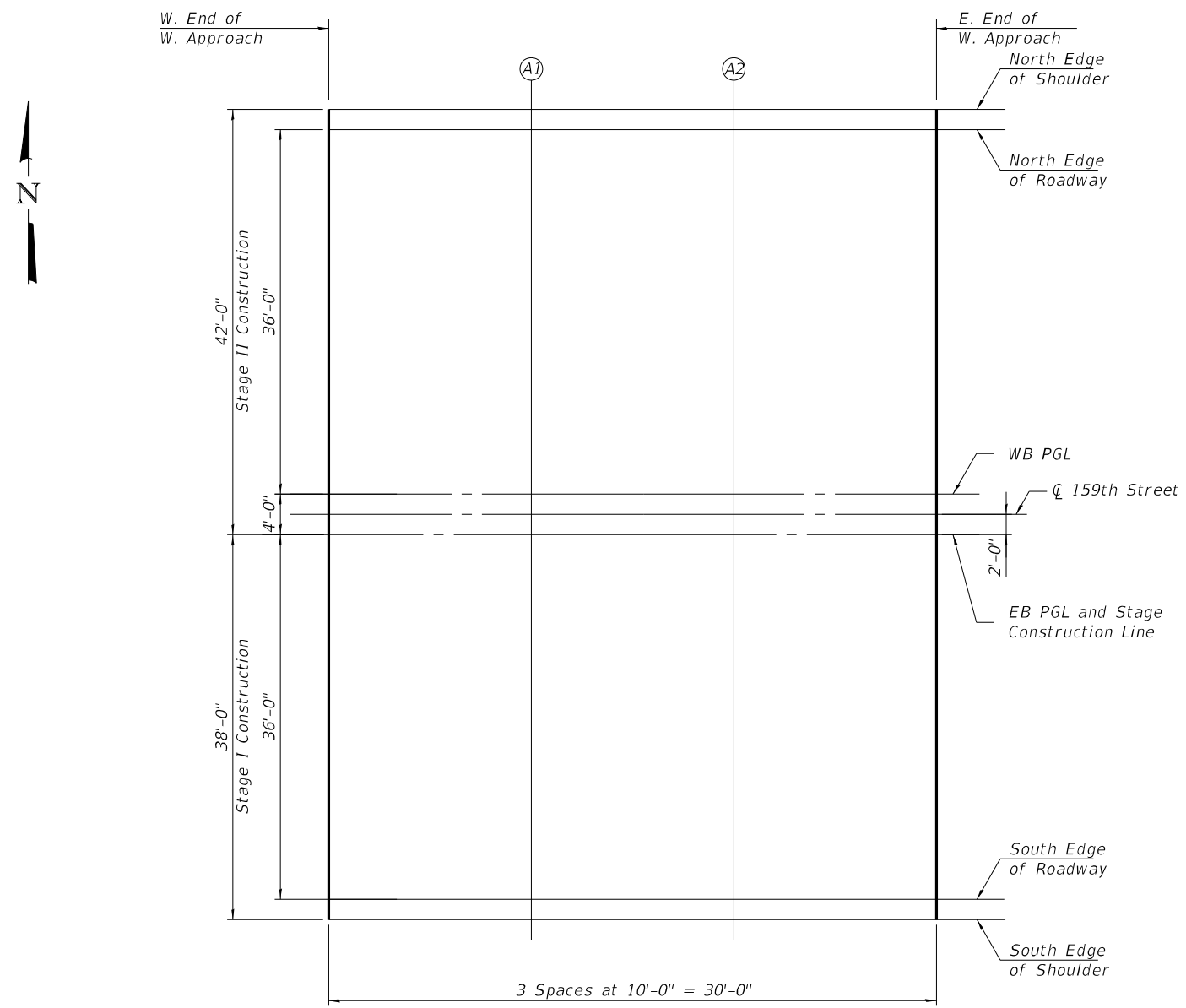
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	2342 + 30.54	2.00	614.58
A1	2342 + 40.54	2.00	614.76
A2	2342 + 50.54	2.00	614.93
E. End of W. Approach	2342 + 60.54	2.00	615.09

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	2342 + 30.54	38.00	614.00
A1	2342 + 40.54	38.00	614.18
A2	2342 + 50.54	38.00	614.34
E. End of W. Approach	2342 + 60.54	38.00	614.50

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	2342 + 30.54	40.00	613.94
A1	2342 + 40.54	40.00	614.12
A2	2342 + 50.54	40.00	614.29
E. End of W. Approach	2342 + 60.54	40.00	614.45



PLAN

- Notes:
 1. Offsets are measured with respect to the Centerline.
 2. Negative offsets are left of the centerline while looking upstation.
 3. All Elevations and Offsets are in feet.

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 1/23/2025 11:44:50 AM



USER NAME =	DESIGNED - BJD	REVISED -
	CHECKED - MGH	REVISED -
PLOT SCALE =	DRAWN - GM	REVISED -
PLOT DATE =	CHECKED - BJD	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 016-0388**

SHEET S10-10 OF S10-37 SHEETS

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
581	(42-B-11-1) BR. BUR 24	COOK	761	708
CONTRACT NO. 62W87				
		ILLINOIS	FED. AID PROJECT	

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Approach	1344 + 90.29	-40.00	614.63
A3	1345 + 00.29	-40.00	614.48
A4	1345 + 10.29	-40.00	614.33
E. End of E. Approach	1345 + 20.29	-40.00	614.16

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Approach	1344 + 90.29	-38.00	614.69
A3	1345 + 00.29	-38.00	614.54
A4	1345 + 10.29	-38.00	614.39
E. End of E. Approach	1345 + 20.29	-38.00	614.22

WB PGL

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Approach	1344 + 90.29	-2.00	615.27
A3	1345 + 00.29	-2.00	615.12
A4	1345 + 10.29	-2.00	614.97
E. End of E. Approach	1345 + 20.29	-2.00	614.80

CL 159TH ST

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Approach	344 + 90.29	0.00	615.25
A3	345 + 00.29	0.00	615.10
A4	345 + 10.29	0.00	614.95
E. End of E. Approach	345 + 20.29	0.00	614.78

EB PGL AND STAGE CONSTRUCTION LINE

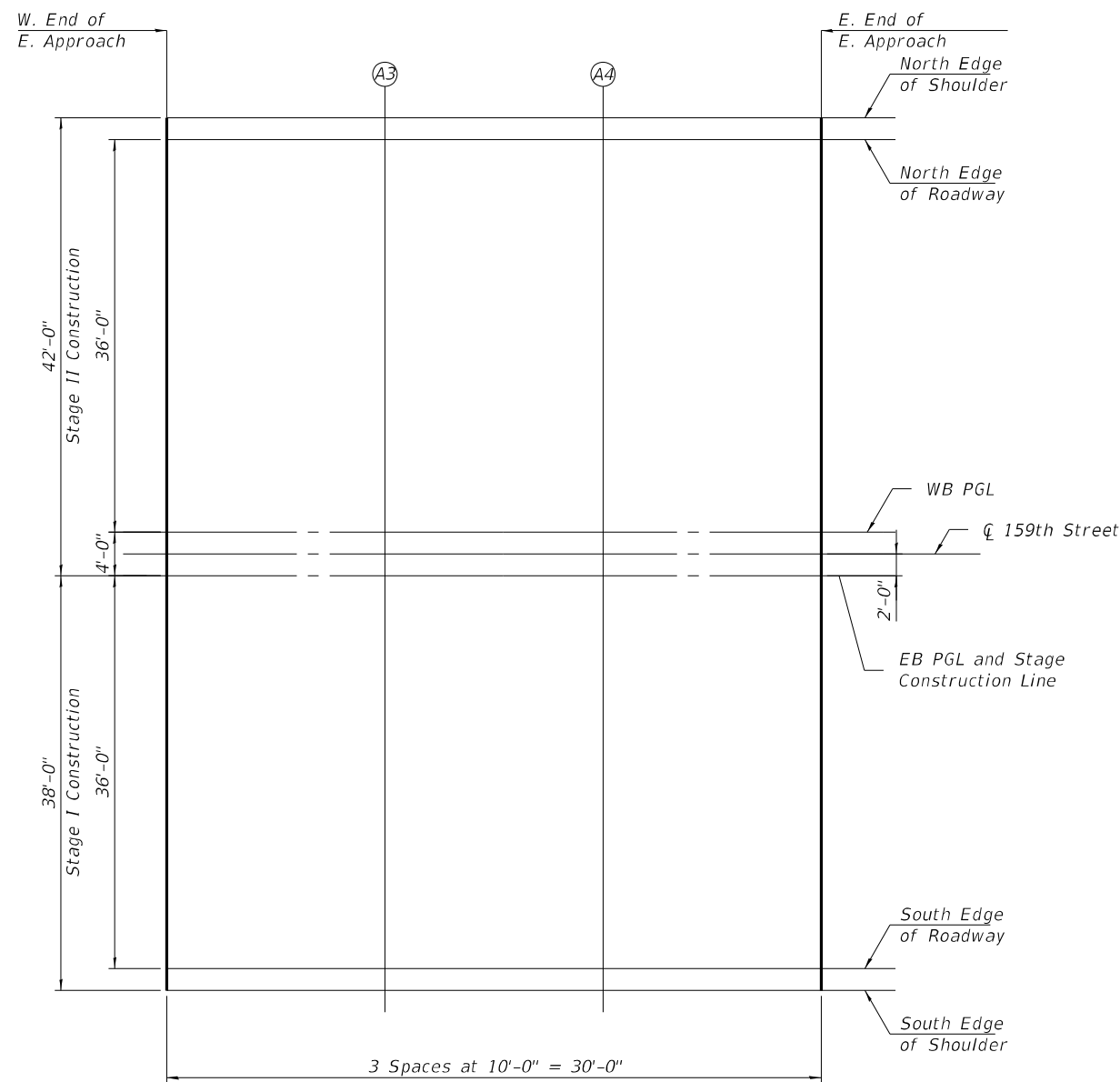
Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Approach	2344 + 90.29	2.00	615.23
A3	2345 + 00.29	2.00	615.08
A4	2345 + 10.29	2.00	614.93
E. End of E. Approach	2345 + 20.29	2.00	614.76

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Approach	2344 + 90.29	38.00	614.64
A3	2345 + 00.29	38.00	614.50
A4	2345 + 10.29	38.00	614.34
E. End of E. Approach	2345 + 20.29	38.00	614.17

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Approach	2344 + 90.29	40.00	614.59
A3	2345 + 00.29	40.00	614.44
A4	2345 + 10.29	40.00	614.29
E. End of E. Approach	2345 + 20.29	40.00	614.12



PLAN

- Notes:
 1. Offsets are measured with respect to the Centerline.
 2. Negative offsets are left of the centerline while looking upstation.
 3. All Elevations and Offsets are in feet.

MODEL: Default
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USER NAME =	DESIGNED - BJD	REVISED -
	CHECKED - MGH	REVISED -
PLOT SCALE =	DRAWN - GM	REVISED -
PLOT DATE =	CHECKED - BJD	REVISED -

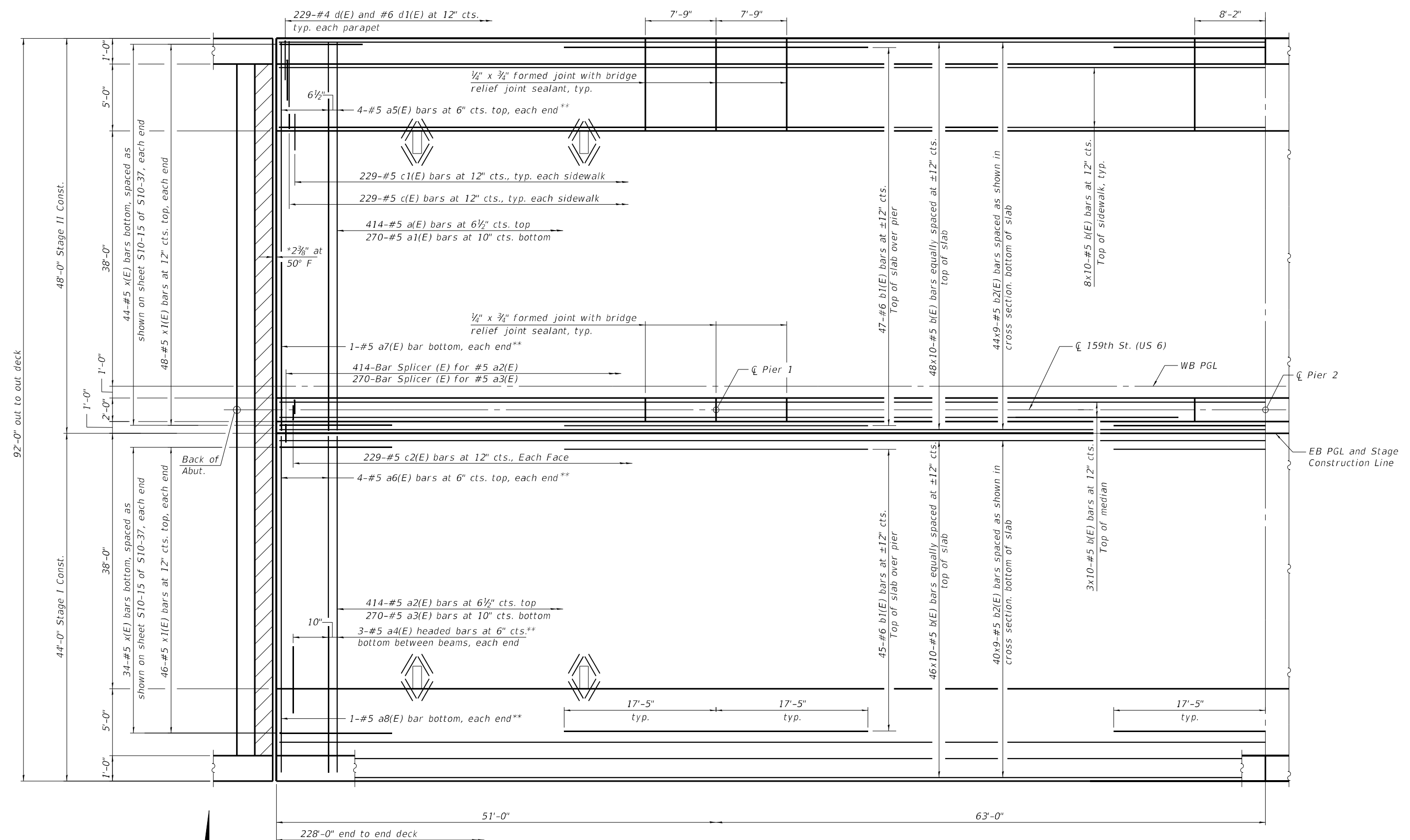
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF EAST APPROACH SLAB ELEVATIONS
 STRUCTURE NO. 016-0388

SHEET S10-11 OF S10-37 SHEETS

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
581	(42-B-11-1) BR. BUR 24	COOK	761	709
CONTRACT NO. 62W87				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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MINIMUM BAR LAP
 #5 bar = 3'-6"

PARTIAL PLAN
 (Symmetry about Centerline of Pier 2)

*Dimension showing concrete opening. For joint opening see sheet S10-20 and S10-21 of S10-37.
 **See S10-15 of S10-37 for edge beam details.

Notes:
 See sheet S10-14 of S10-37 for superstructure details and Bill of Material.
 Bars indicated thus 95x10-#5 etc. indicates 95 lines of bars with 10 lengths per line.
 Cut longitudinal reinforcement to clear drainage scuppers.



USER NAME =	DESIGNED - BJD	REVISED -
	CHECKED - MGH	REVISED -
PLOT SCALE =	DRAWN - GM	REVISED -
PLOT DATE =	CHECKED - BJD	REVISED -

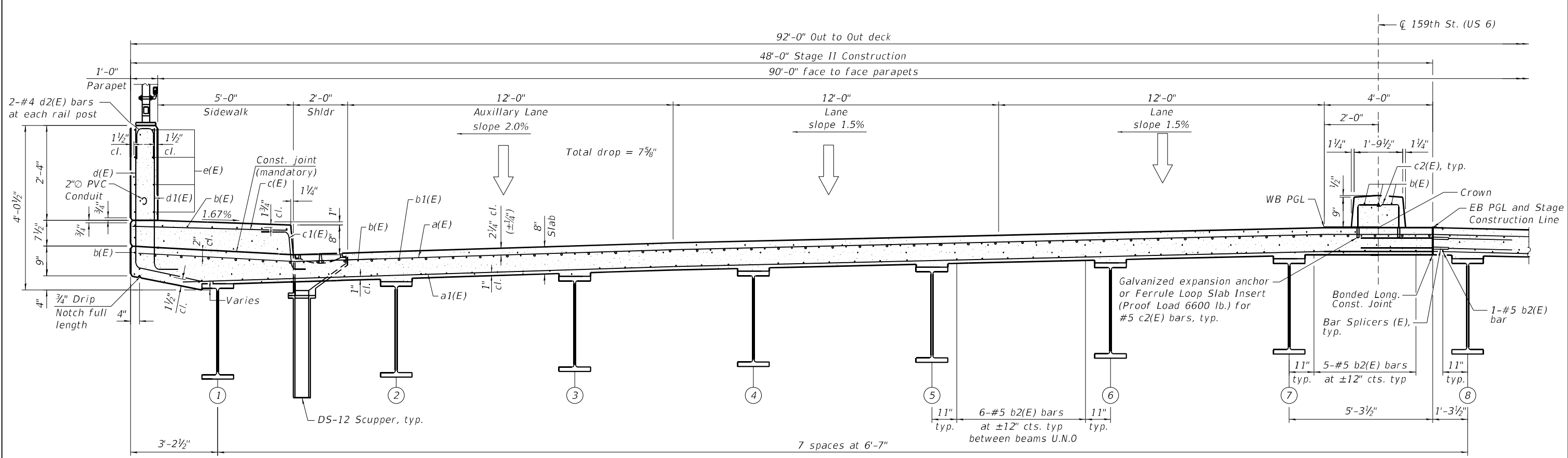
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE - 1
STRUCTURE NO. 016-0388

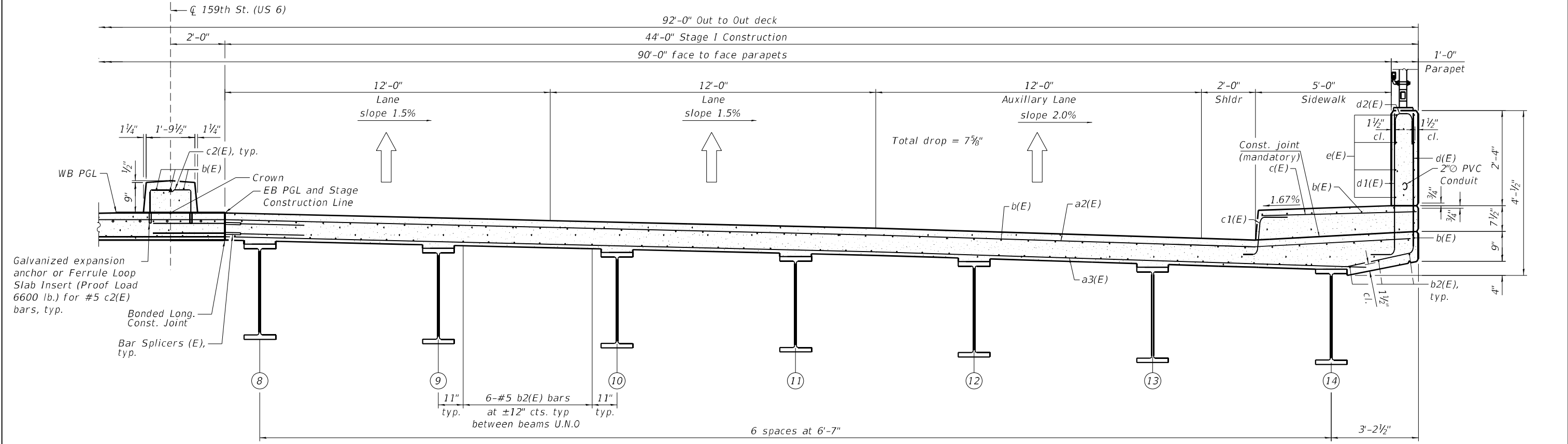
SHEET S10-12 OF S10-37 SHEETS

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
581	(42-B-11-1) BR, BUR 24	COOK	761	710
CONTRACT NO. 62W87				

ILLINOIS FED. AID PROJECT



CROSS SECTION
(Looking East)
NEAR PIER



CROSS SECTION
(Looking East)
NEAR MIDSPAN

MODEL: Default
 FILE NAME: p:\wsp-us-pw-bentley.com\wsp-us-pw-us-projects\IDOT District 1\VariousStructures\Work Order 1\016-0388 - 159th over I-94\Sheets\13_016-0388 - Superstructure-2.dgn
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 1/23/2025 11:45:08 AM



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	CHECKED - MGH	REVISED -
PLOT SCALE =	DRAWN - GM	REVISED -
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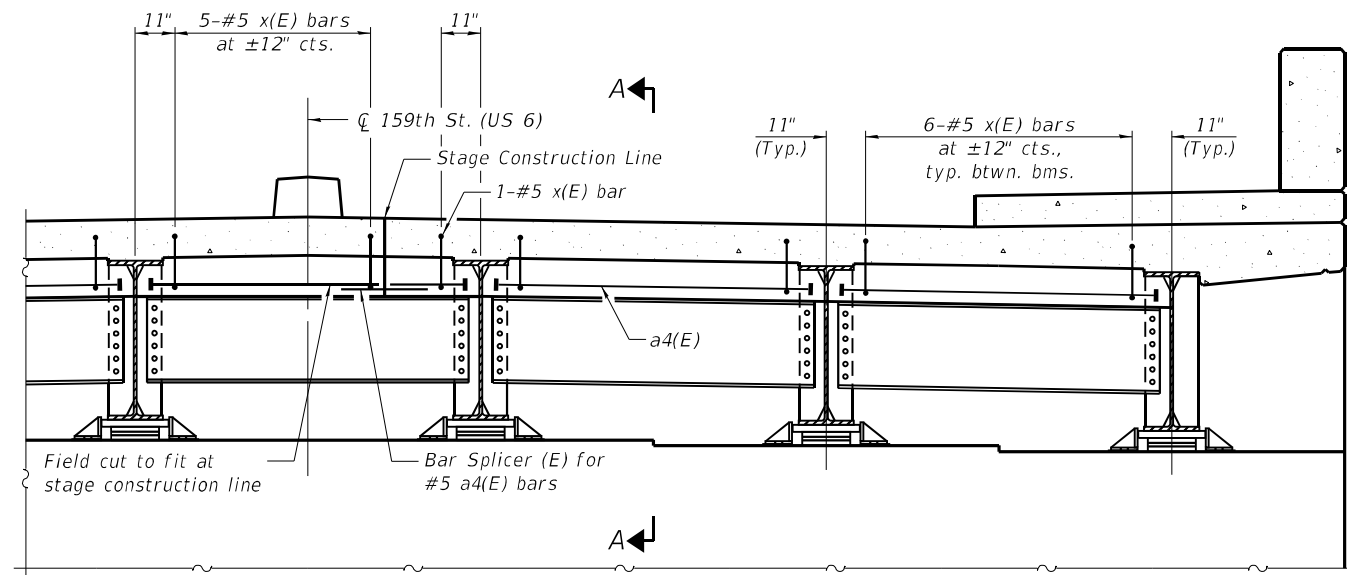
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE - 2
STRUCTURE NO. 016-0388

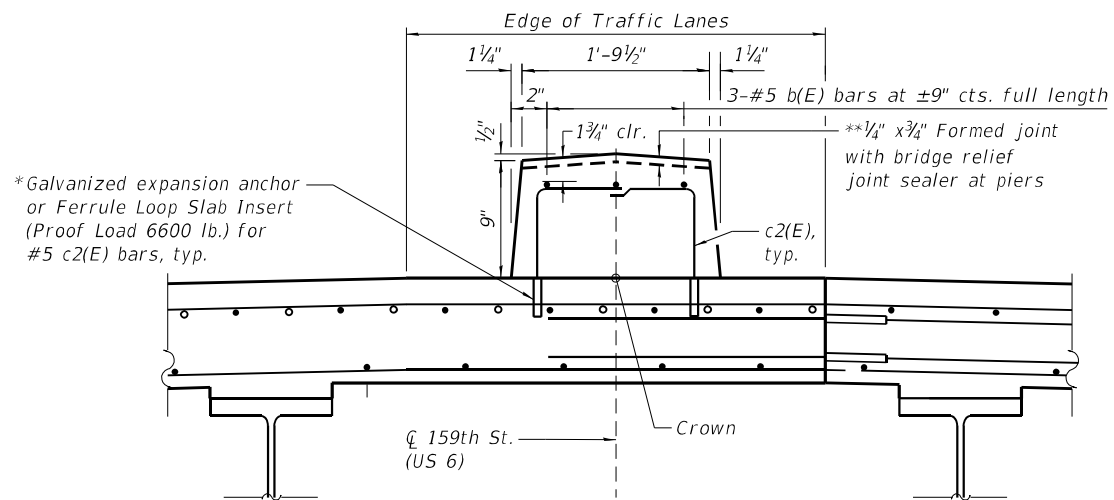
SHEET S10-13 OF S10-37 SHEETS

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
581	(42-B-11-1) BR, BUR 24	COOK	761	711
CONTRACT NO. 62W87				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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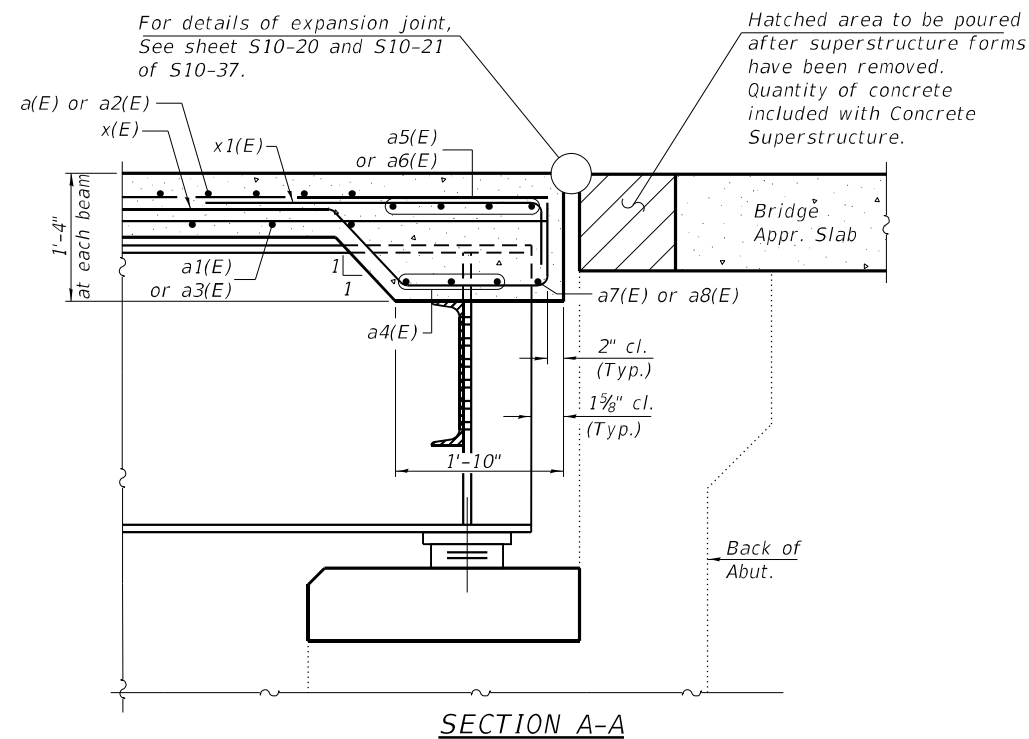
DIAPHRAGM AT ABUTMENT



SECTION THRU MEDIAN

* The cost of expansion anchors/inserts is included in the cost of Reinforcement Bars, Epoxy Coated.

** Full width along joint - backer rod not required.



SECTION A-A

Notes:
 See sheet S10-14 of S10-37 for superstructure details and Bill of Material.
 Reinforcement bars designated (E) shall be epoxy coated.



USER NAME =	DESIGNED - BJD	REVISED -
	CHECKED - MGH	REVISED -
PLOT SCALE =	DRAWN - GM	REVISED -
PLOT DATE =	CHECKED - BJD	REVISED -

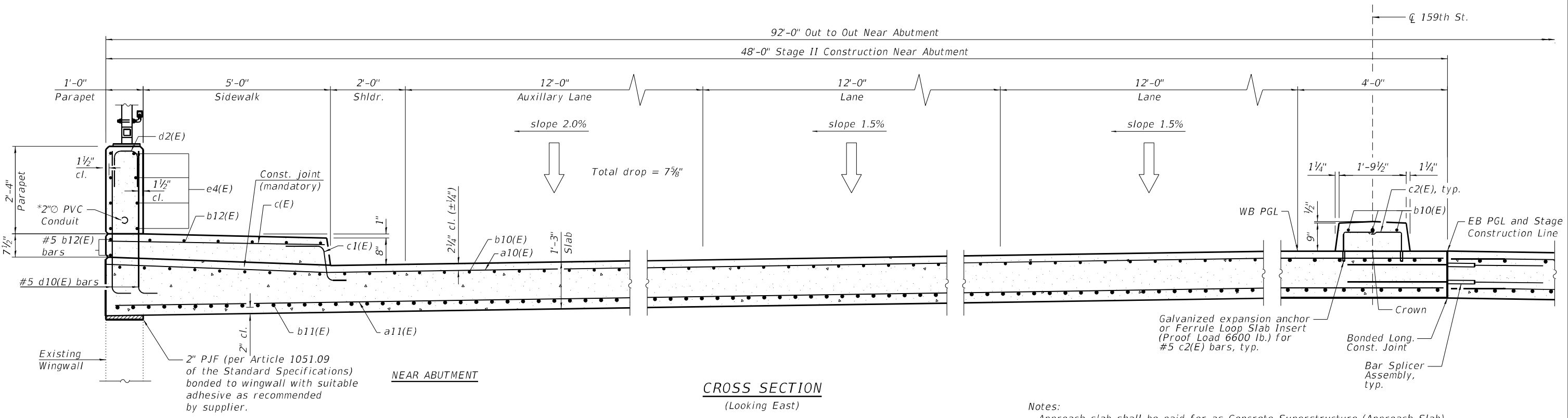
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS
 STRUCTURE NO. 016-0388**

SHEET S10-15 OF S10-37 SHEETS

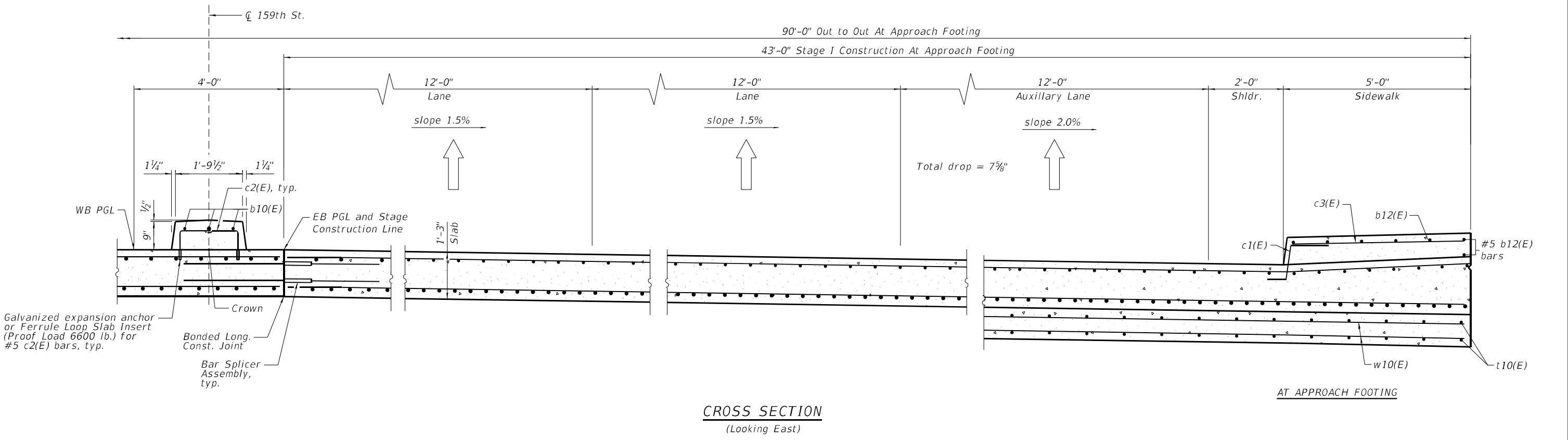
FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
581	(42-B-11-1) BR, BJR 24	COOK	761	713
CONTRACT NO. 62W87				
ILLINOIS		FED. AID PROJECT		

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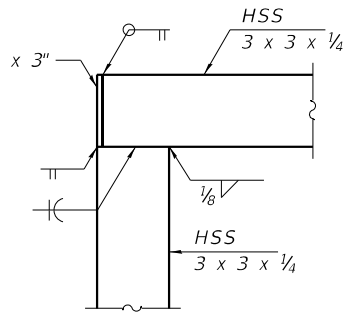
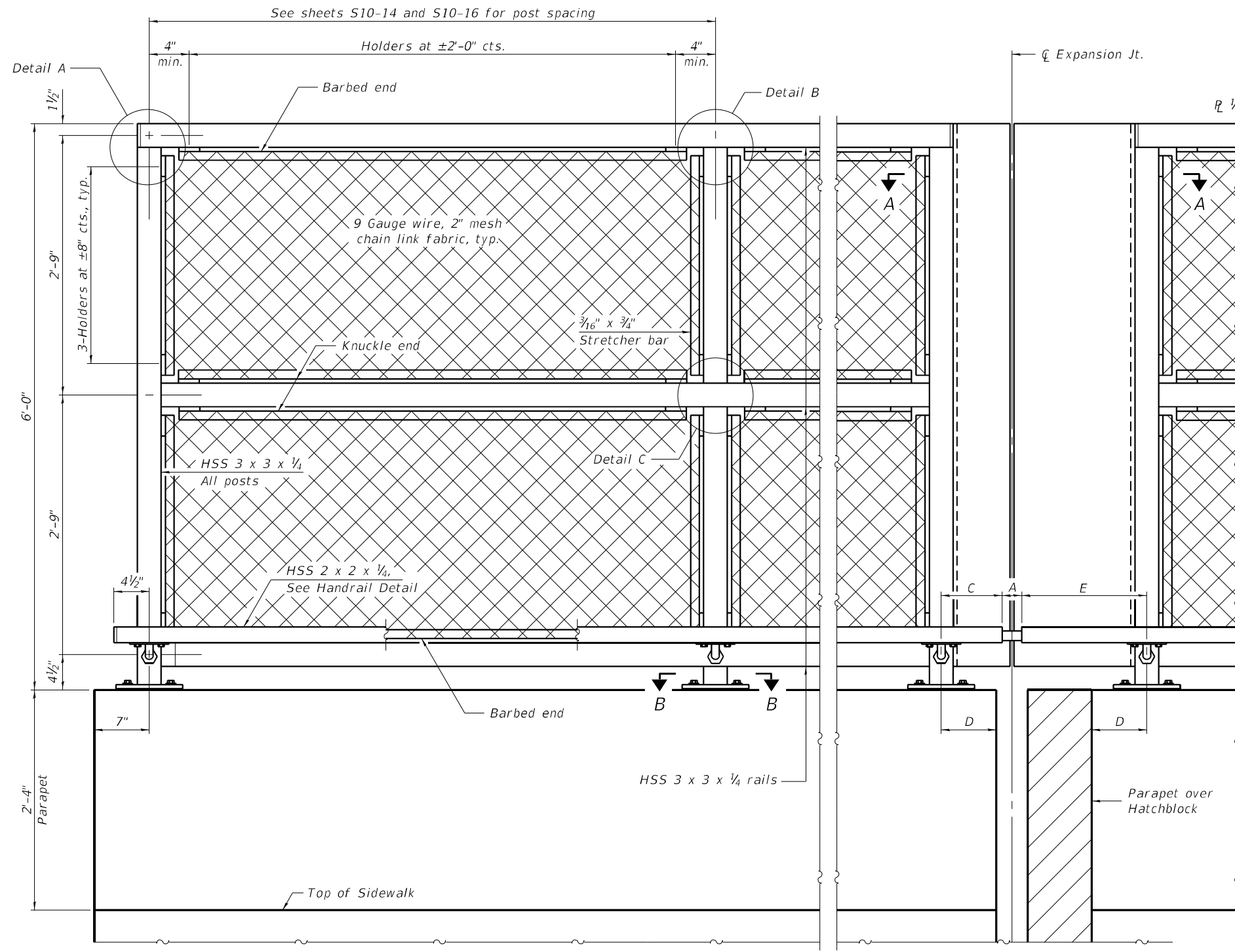
* For Conduit and junction boxes, see Rdwg Plans. See IDOT Highway Standard 812001. Maintain 1 1/2" cl. from reinforcement to conduit.

Notes:
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 See sheet S10-30A of S10-37 for hatched block details.

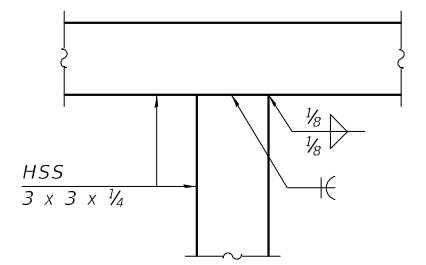


	USER NAME =	DESIGNED - BJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH SLAB DETAILS - 2 STRUCTURE NO. 016-0388	FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE =	DRAWN - GM	REVISED -	CONTRACT NO. 62W87							
	CHECKED - BJD	REVISED -	ILLINOIS FED. AID PROJECT							

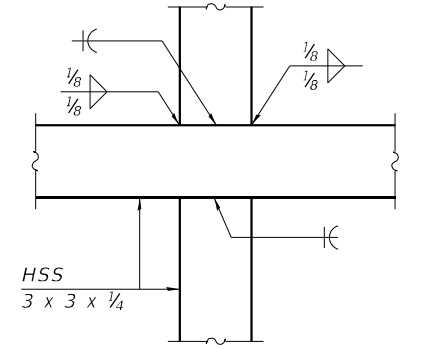
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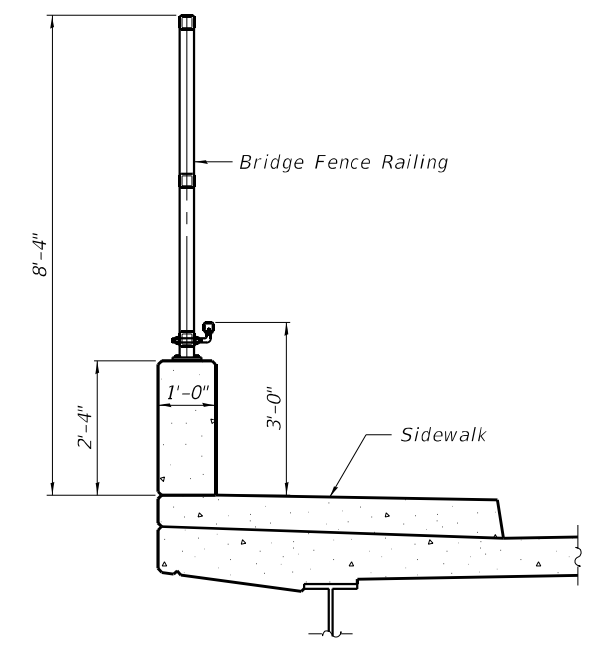
DETAIL A



DETAIL B

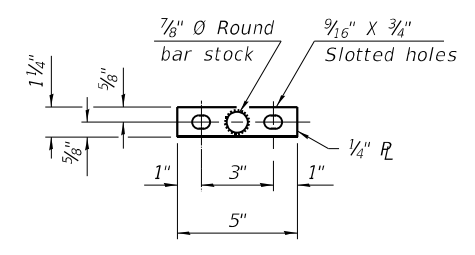


DETAIL C

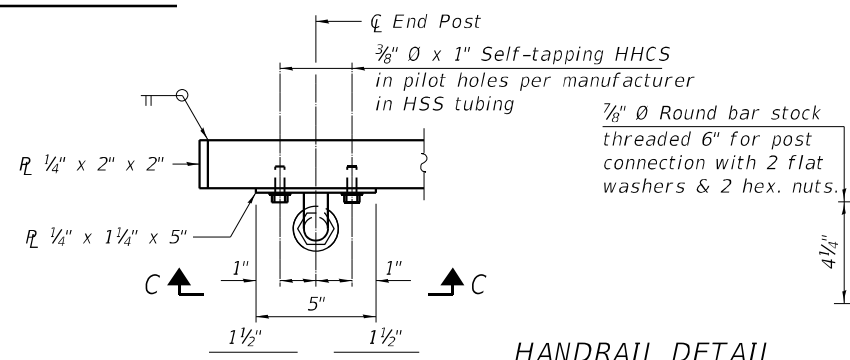


SECTION THRU DECK

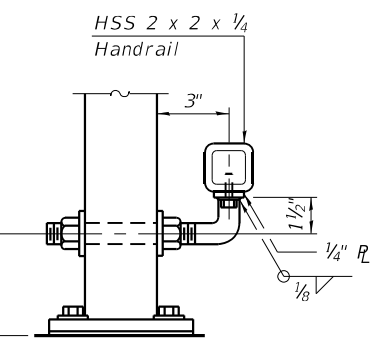
ELEVATION BRIDGE FENCE RAILING
(Inside face)



VIEW C-C
(Handrail)



HANDRAIL DETAIL



(Sheet 1 of 2)

RAILING CRITERIA	
NCHRP 350 Test Level	4
Max Post Spacing	10'-0"
Railing Weight (plf)	50



USER NAME =	DESIGNED - BJD	REVISED -
	CHECKED - MGH	REVISED -
PLOT SCALE =	DRAWN - GM	REVISED -
PLOT DATE =	CHECKED - BJD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

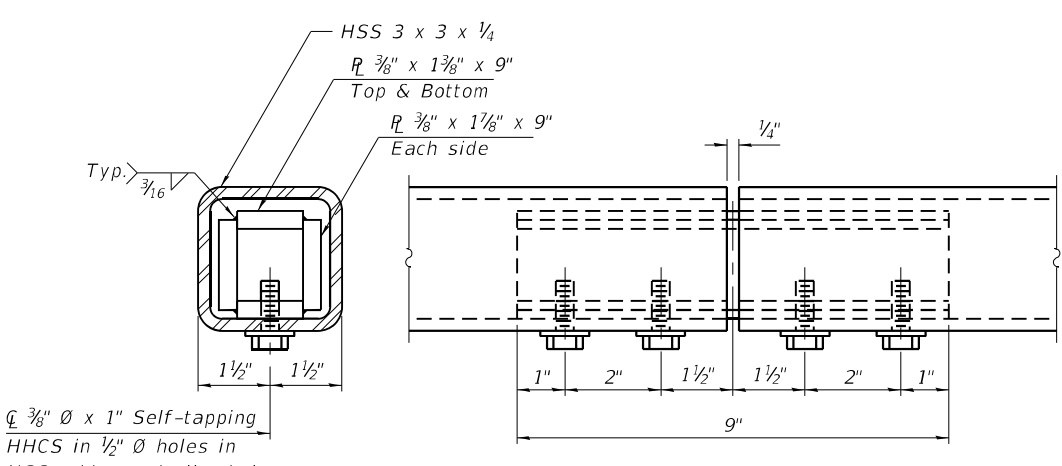
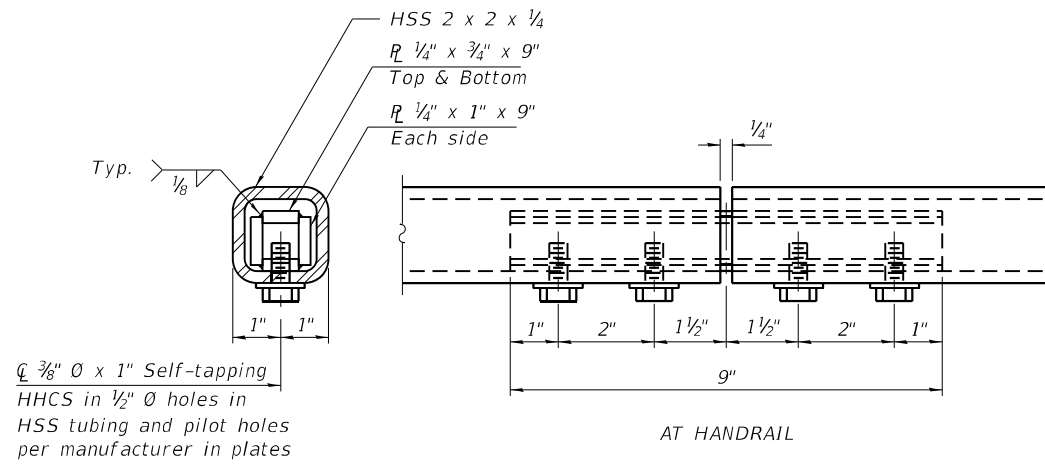
BRIDGE FENCE RAILING
STRUCTURE NO. 016-0388

SHEET S10-18 OF S10-37 SHEETS

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
581	(42-B-11-1) BR, BJR 24	COOK	761	716
CONTRACT NO. 62W87				

ILLINOIS FED. AID PROJECT

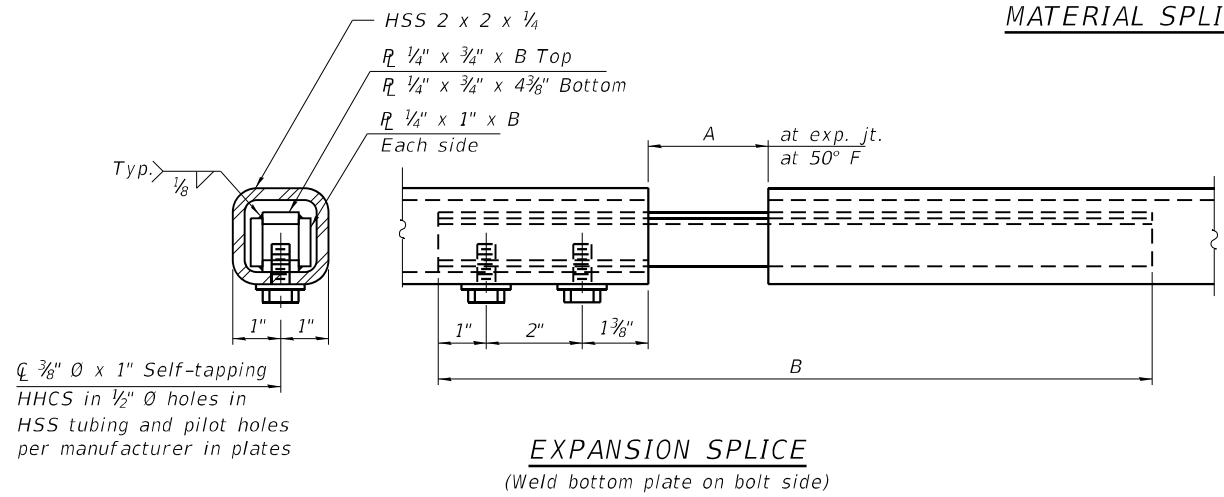
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$\varnothing \frac{3}{8}$ " \varnothing x 1" Self-tapping
 HHCS in $\frac{1}{2}$ " \varnothing holes in
 HSS tubing and pilot holes
 per manufacturer in plates

$\varnothing \frac{3}{8}$ " \varnothing x 1" Self-tapping
 HHCS in $\frac{1}{2}$ " \varnothing holes in
 HSS tubing and pilot holes
 per manufacturer in plates

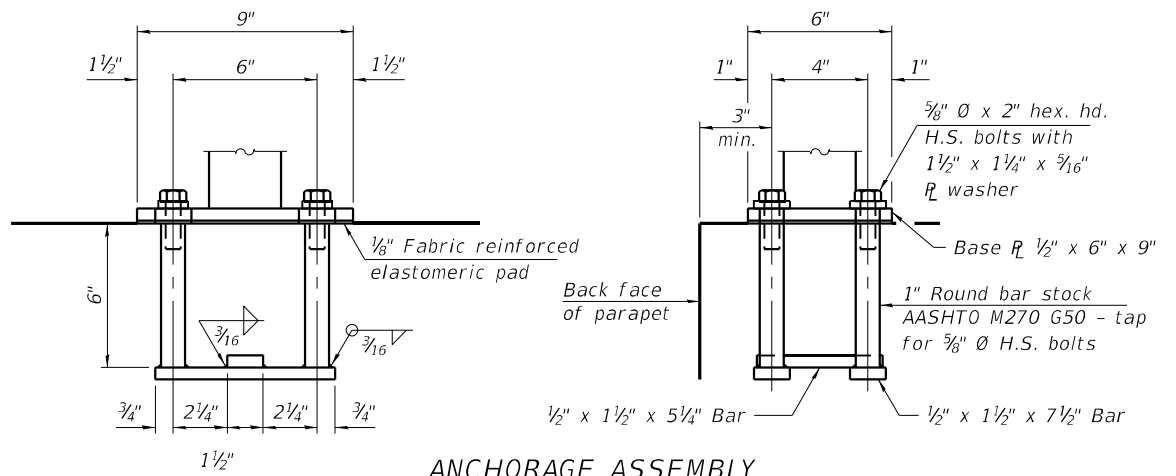
Notes:
 Place reinforcement bars to miss anchor rod locations.
 CVN testing is not required for the HSS tubing used in the Bridge Fence Railing.
 All HSS tubing used for the Handrail shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.
 All heavy hex nuts shall be according to ASTM A 563 grade DH.
 All fully threaded anchor rods shall be ASTM F1554 grade 105.
 The post base plate shall be fastened to the curb snug tight and given an additional $\frac{1}{8}$ " turn.
 Rail splice inserts may be built out of bent plates of the same thicknesses and outside geometry limits as the 4 plate rail splice inserts shown.
 When the contract specifies a galvanized railing, all steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications. When the contract specifies a painted railing, all posts, rail, splices, anchor devices and plates of the railing shall be painted according to the paint system for railings as specified in the General Notes.
 See sheet S10-12 of S10-37 for dimensions of concrete openings at expansion joints.



MATERIAL SPLICE

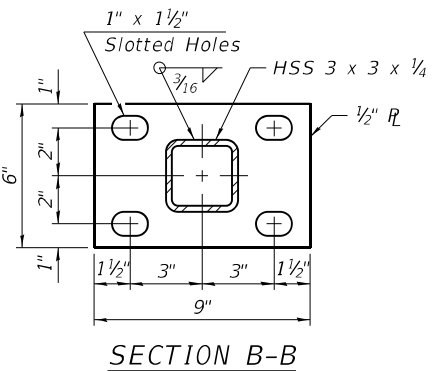
$\varnothing \frac{3}{8}$ " \varnothing x 1" Self-tapping
 HHCS in $\frac{1}{2}$ " \varnothing holes in
 HSS tubing and pilot holes
 per manufacturer in plates

EXPANSION SPLICE
 (Weld bottom plate on bolt side)

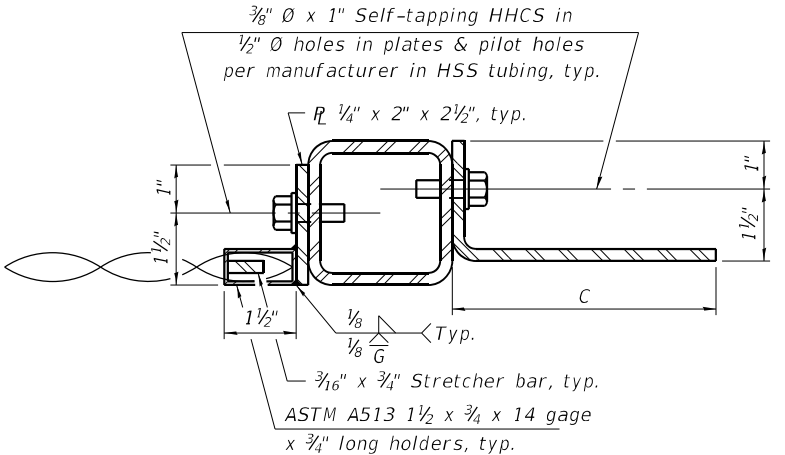


ANCHORAGE ASSEMBLY

The Bridge Fence Railing fasteners for end posts near expansion joints may need to be installed prior to installing the bent plates.
 In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting $\frac{5}{8}$ " \varnothing fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



SECTION B-B



SECTION A-A

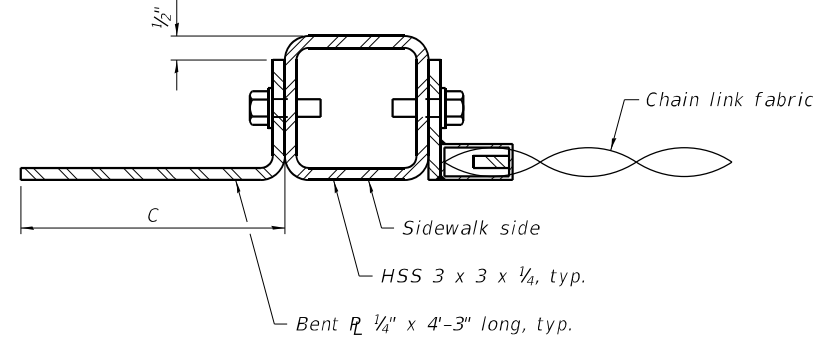


TABLE OF DIMENSIONS

Location	T	A	B	C	D	E
Over Strip Seal Jt.	≤4"	2 1/2"	1'-5 1/8"	7 1/4"	7"	1'-4 1/4"

T = ; total movement based on total temperature range from -20°F to 120°F along centerline of roadway at expansion joint.

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Fence Railing	Foot	524

(Sheet 2 of 2)



USER NAME =	DESIGNED - BJD	REVISED -
PLOT SCALE =	CHECKED - MGH	REVISED -
PLOT DATE =	DRAWN - GM	REVISED -
	CHECKED - BJD	REVISED -

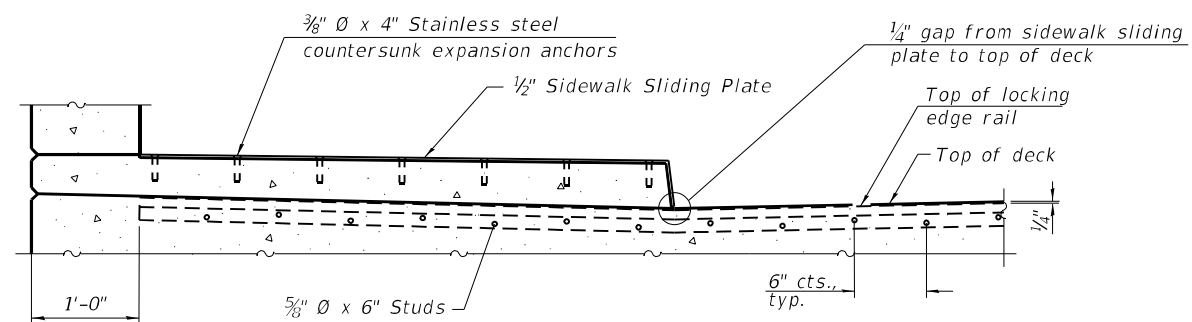
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE FENCE RAILING
STRUCTURE NO. 016-0388

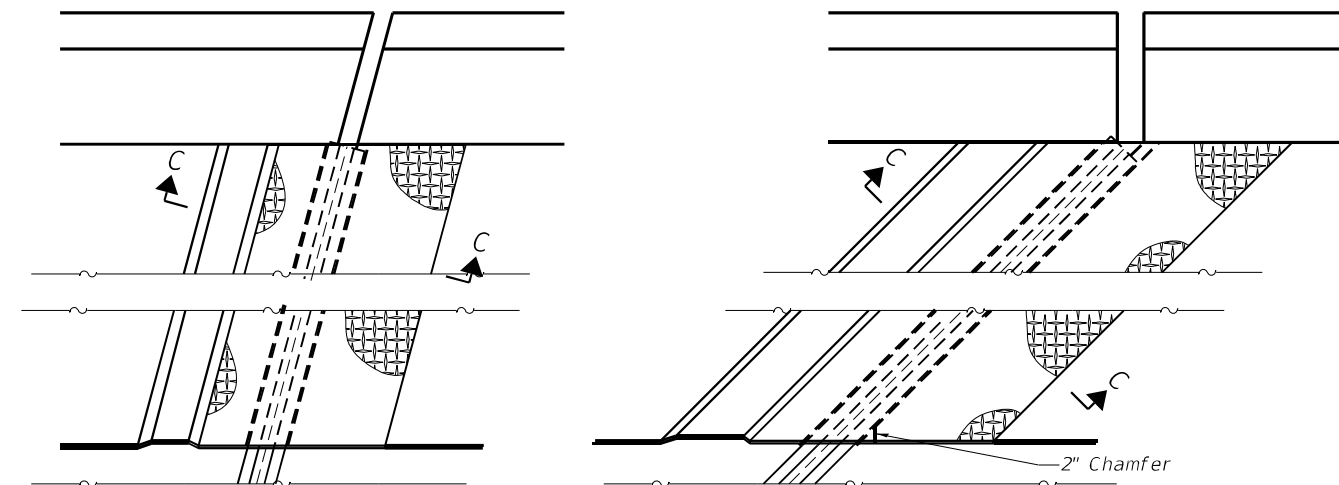
SHEET S10-19 OF S10-37 SHEETS

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
581	(42-B-11-1) BR, BJR 24	COOK	761	717
CONTRACT NO. 62W87				
ILLINOIS FED. AID PROJECT				

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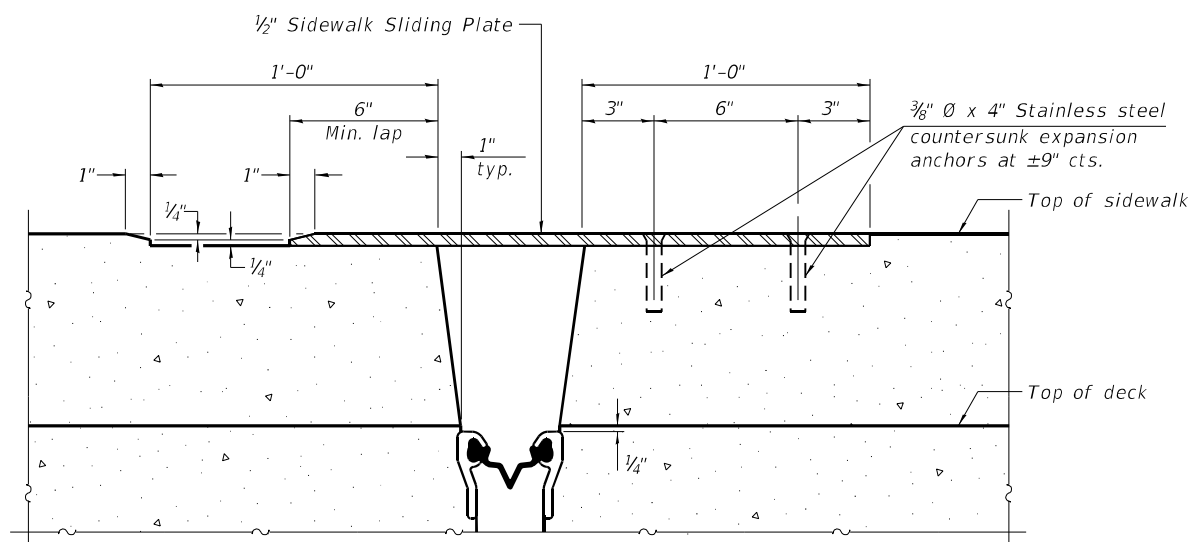
SECTION AT RAISED SIDEWALK



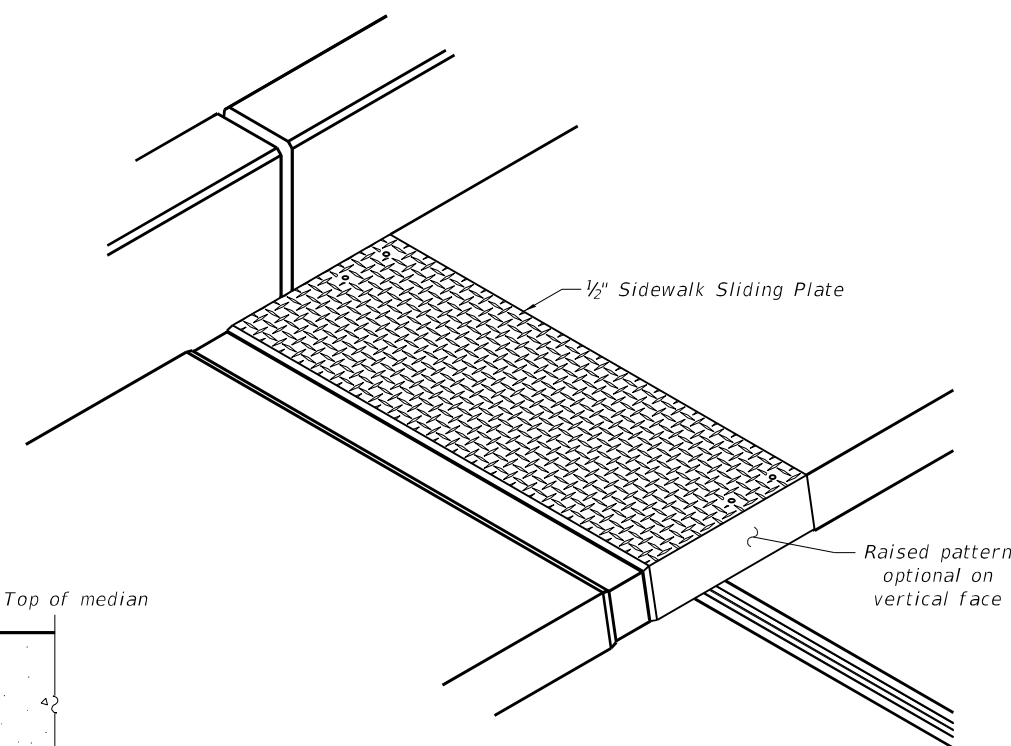
(FOR SKEWS $\leq 30^\circ$)

(FOR SKEWS $> 30^\circ$)

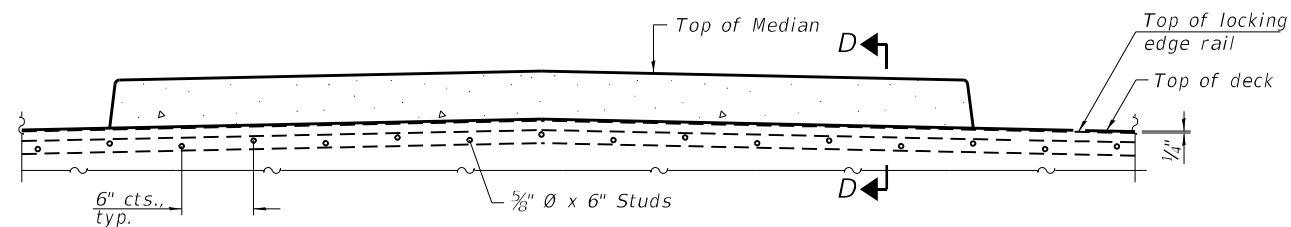
PLAN AT RAISED SIDEWALK



SECTION C-C

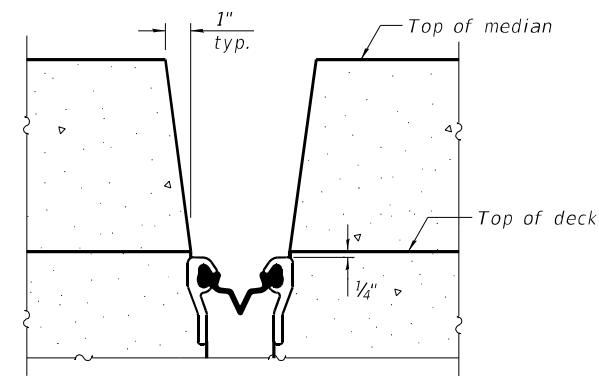


TRIMETRIC VIEW



SECTION AT MEDIAN

For skews $> 30^\circ$, chamfer acute corners 2" similar to sidewalk.



SECTION D-D
(at Rt. L's)

EJ-SS-S

5/15/2023



USER NAME =	DESIGNED - BJD	REVISED -
PLOT SCALE =	CHECKED - MGH	REVISED -
PLOT DATE =	DRAWN - GM	REVISED -
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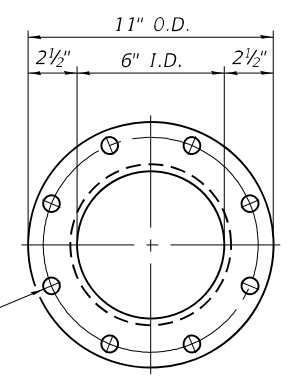
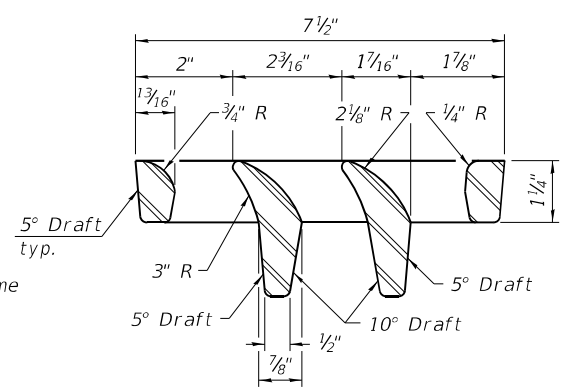
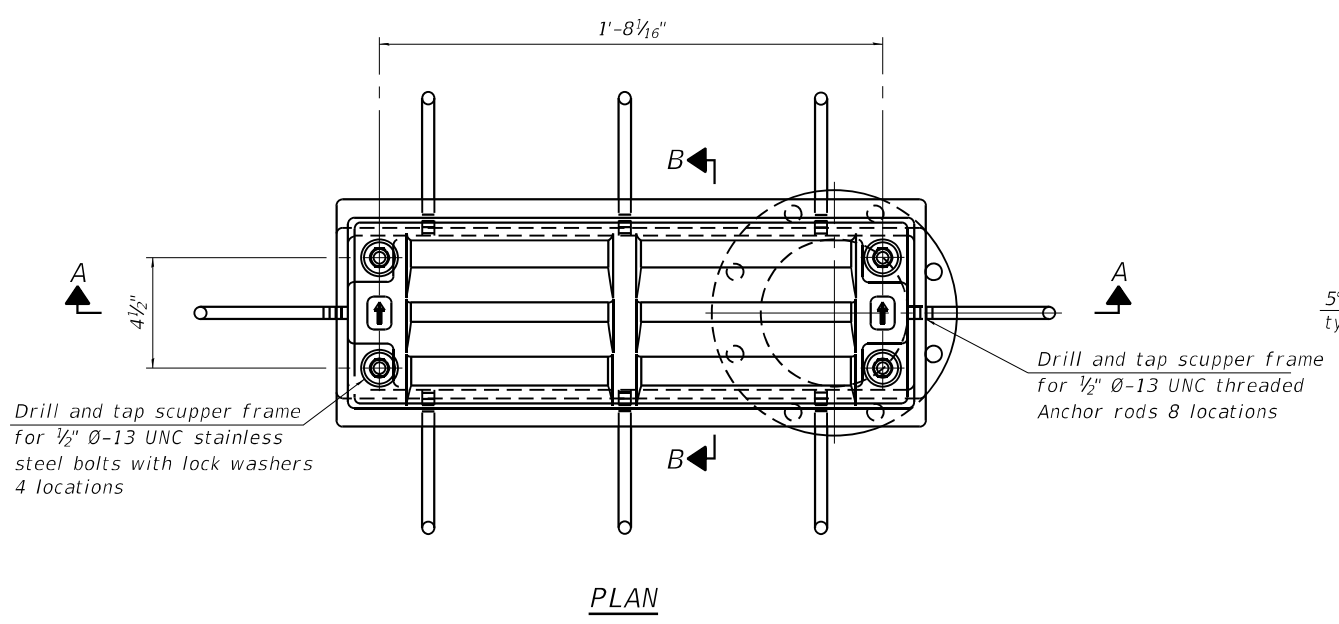
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL - SIDEWALK
STRUCTURE NO. 016-0388**

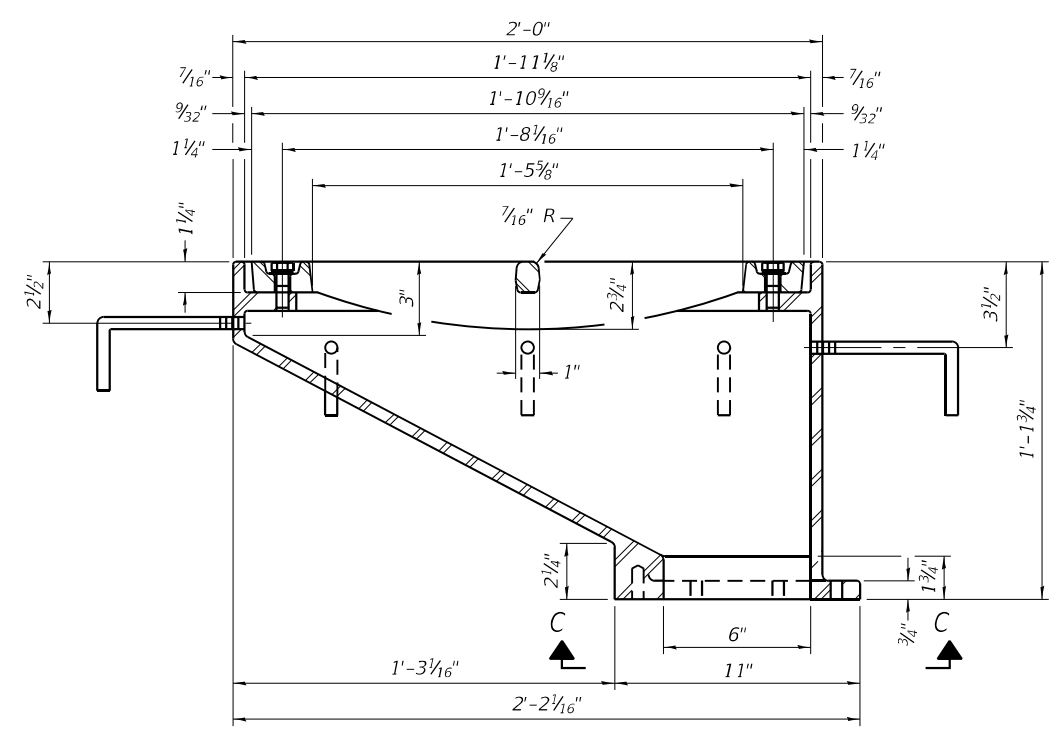
SHEET S10-21 OF S10-37 SHEETS

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62W87				
ILLINOIS FED. AID PROJECT				

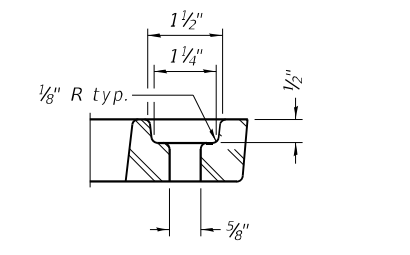
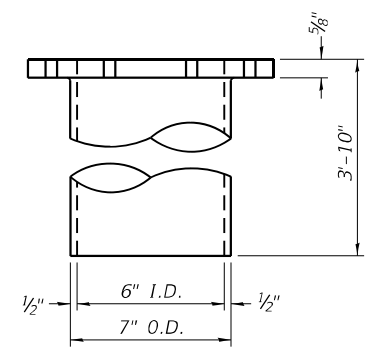
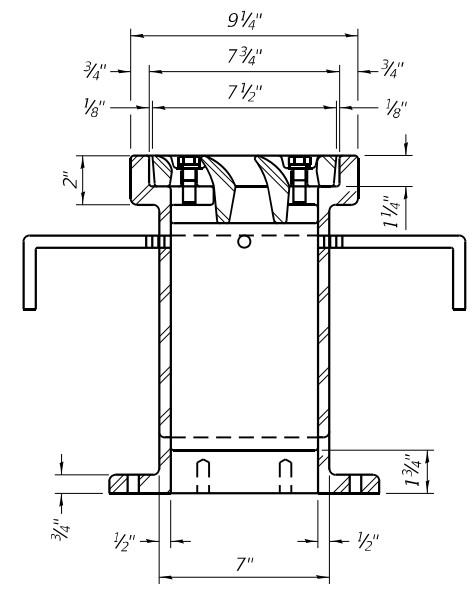
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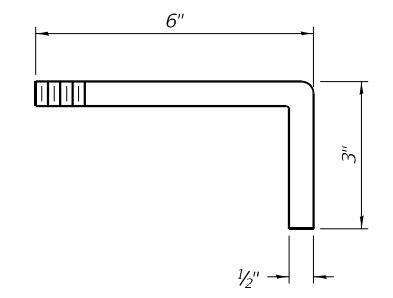
Notes:
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M105, Class 35B and AASHTO M306.
 Bolts, anchor rods, nuts and washers shall be according to ASTM A307 and shall be galvanized according to AASHTO M232. As an alternate stainless steel may be used.
 Stainless steel hardware shall be according to Article 1006.29(d) of the Standard Specifications.
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frames and downspouts; however, the scupper grates shall remain cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.
 Structural steel scupper frames and downspouts, when utilized, shall be galvanized according to AASHTO M111.
 As an alternate, fiberglass may be used for downspouts according to ASTM D2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. in lieu of the cast iron or structural steel.
 Exterior surfaces of downspouts and exterior exposed surfaces of the scupper frame below deck shall be pigmented or painted to match the color of the adjacent beam.
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
 Cost of the grate, frame, downspout, anchor rods, nuts and washers including complete installation of the scupper shall be paid for at the contract unit price for Drainage Scuppers, DS-12.



See sheet S10-14 of S10-37 for scupper location relative to the curb.



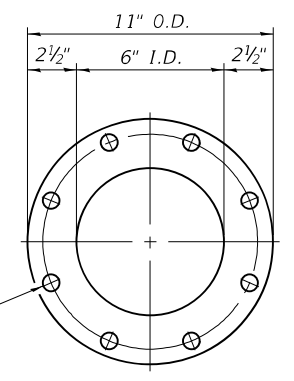
GRATE BOLT HOLE DETAIL



ANCHOR ROD DETAIL

SECTION B-B

Drill and tap 8 holes for 3/4" Ø-13 UNC bolts on 9 1/2" Ø bolt circle. (2 blind holes are 1 1/4" deep, 6 thru holes)



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scuppers, DS-12	Each	8

DS-12

5-15-2023



USER NAME =	DESIGNED - BJD	REVISED -
PLOT SCALE =	CHECKED - MGH	REVISED -
PLOT DATE =	DRAWN - GM	REVISED -
	CHECKED - BJD	REVISED -

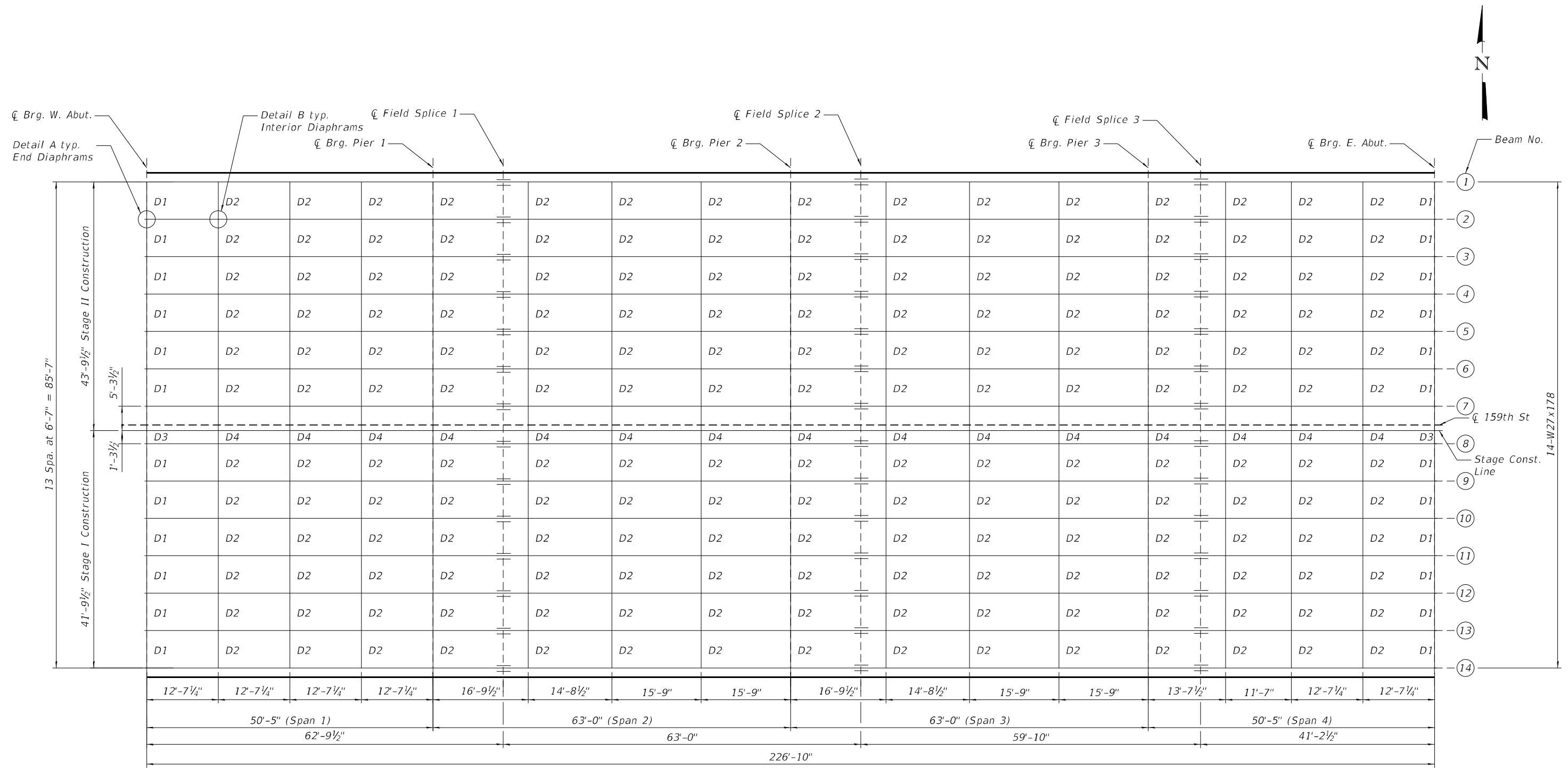
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER DETAILS
 STRUCTURE NO. 016-0388

SHEET S10-22 OF S10-37 SHEETS

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
581	(42-B-11-1) BR, BJR 24	COOK	761	720
CONTRACT NO. 62W87				
ILLINOIS FED. AID PROJECT				

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FRAMING PLAN

TOP OF BEAM ELEVATIONS
 (For fabrication only)

	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6	Beam 7	Beam 8	Beam 9	Beam 10	Beam 11	Beam 12	Beam 13	Beam 14
☉ Brg. W. Abut.	613.65	613.78	613.91	614.03	614.13	614.22	614.32	614.26	614.16	614.04	613.96	613.85	613.71	613.58
☉ Brg. Pier 1	614.22	614.36	614.49	614.60	614.70	614.81	614.90	614.84	614.74	614.64	614.55	614.43	614.30	614.17
☉ Splice 1	614.32	614.45	614.58	614.70	614.80	614.90	614.99	614.94	614.84	614.74	614.64	614.52	614.39	614.26
☉ Brg. Pier 2	614.50	614.63	614.77	614.88	614.98	615.07	615.18	615.13	615.03	614.93	614.83	614.71	614.58	614.45
☉ Splice 2	614.55	614.68	614.82	614.93	615.03	615.12	615.23	615.18	615.08	614.98	614.88	614.76	614.63	614.50
☉ Brg. Pier 3	614.29	614.42	614.55	614.67	614.77	614.87	614.96	614.92	614.82	614.72	614.62	614.51	614.37	614.24
☉ Splice 3	614.22	614.35	614.48	614.60	614.69	614.80	614.89	614.85	614.75	614.65	614.55	614.43	614.30	614.17
☉ Brg. E. Abut.	613.76	613.89	614.02	614.14	614.24	614.34	614.44	614.40	614.30	614.20	614.10	613.98	613.85	613.72

Notes:
 All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports maybe temporarily disconnected to install bearing anchor bolts.



USER NAME =	DESIGNED - BJD	REVISED -
	CHECKED - MGH	REVISED -
PLOT SCALE =	DRAWN - GM	REVISED -
PLOT DATE =	CHECKED - BJD	REVISED -

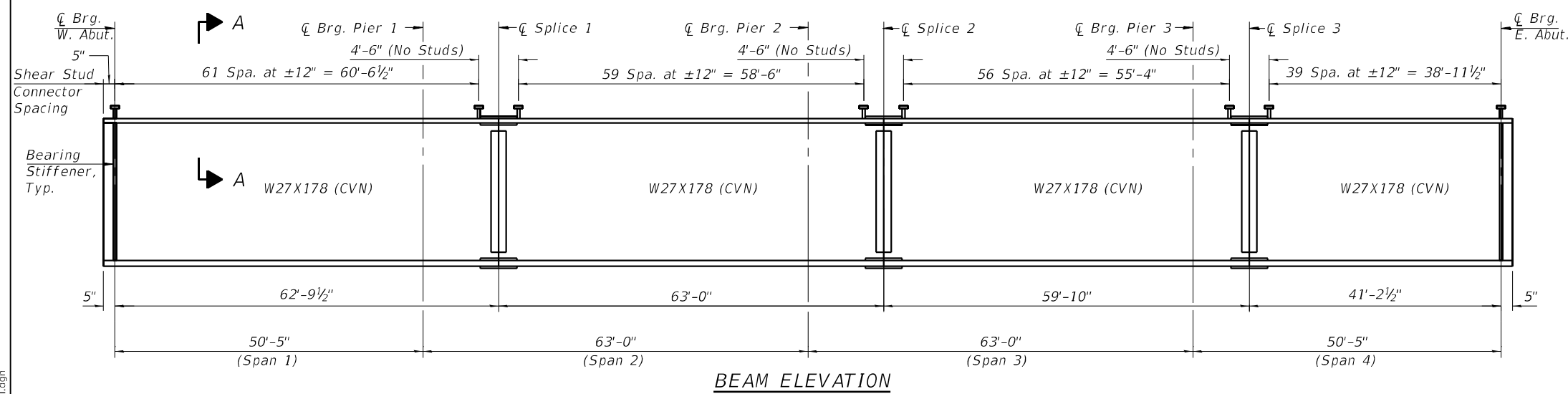
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN
STRUCTURE NO. 016-0388

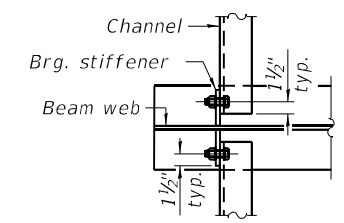
SHEET S10-23 OF S10-37 SHEETS

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62W87				
ILLINOIS		FED. AID PROJECT		

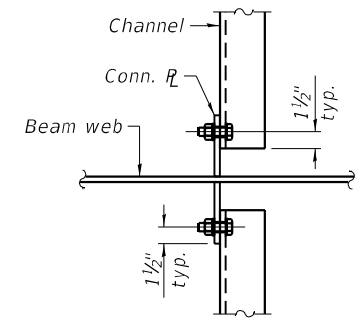
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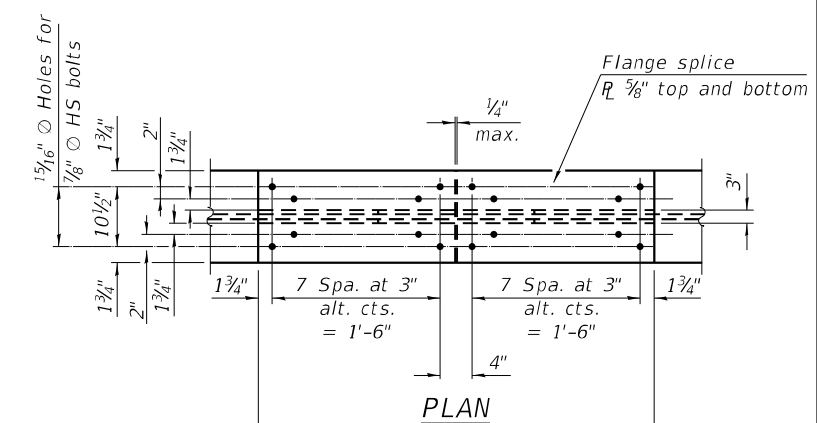
BEAM ELEVATION



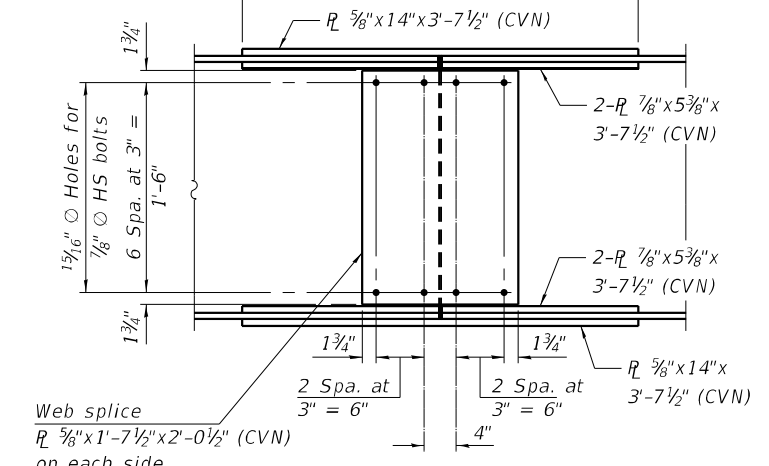
DETAIL A



DETAIL B

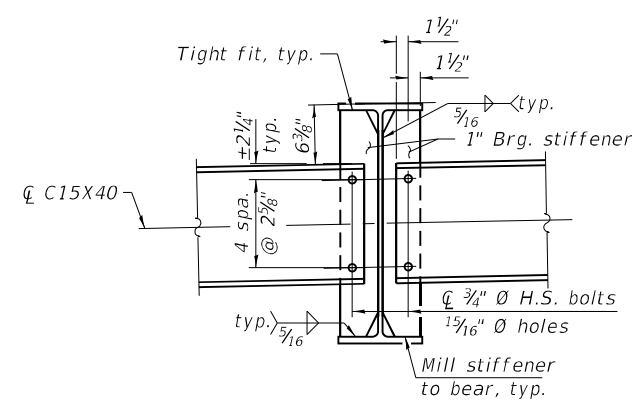


PLAN



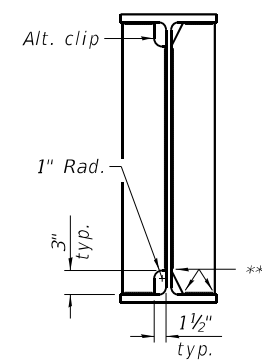
ELEVATION

SPLICE DETAIL
(42 Required)



END DIAPHRAGMS

D1 (24 Required)

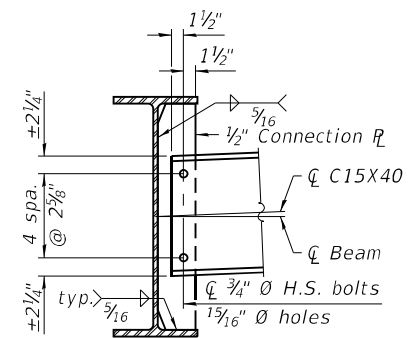


WELD LIMITS AND CLIP DETAILS

** Stop welds 1/4" (±1/8") from edges as shown. Typical.

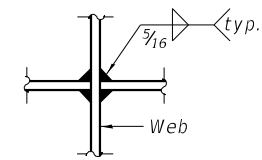
Notes:

Two hardened washers required for each set of oversized holes.
 Alternate channels of equal depth and larger weight are permitted to facilitate material acquisition. Alternate channels, if utilized, shall be provided at no additional cost to the Department.



INTERIOR DIAPHRAGM

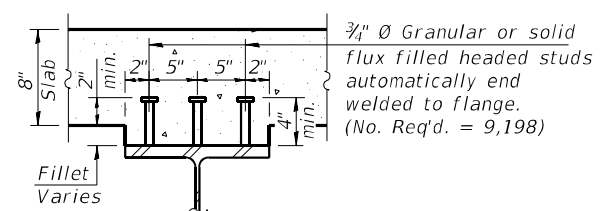
D2 (180 Required)
 D4 (15 Required)



WEB WELD DETAIL

Notes:

See sheet S10-25 for moment tables and reaction tables.
 All beams, splice plates, and bearing stiffeners shall be AASHTO M270 Grade 50.
 All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise notes.
 Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
 Load carrying components designated "CVN" shall conform to the Charpy-V-Notch Impact Energy, Zone 2.
 All structural steel shall be metalized. Cost included with Furnishing and Erecting Structural Steel.



SECTION A-A



USER NAME =	DESIGNED - BJD	REVISED -
	CHECKED - MGH	REVISED -
PLOT SCALE =	DRAWN - GM	REVISED -
PLOT DATE =	CHECKED - BJD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL
STRUCTURE NO. 016-0388

SHEET S10-24 OF S10-37 SHEETS

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
581	(42-B-11-1) BR, BUR 24	COOK	761	722
CONTRACT NO. 62W87				
ILLINOIS FED. AID PROJECT				

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INTERIOR GIRDER MOMENT TABLE					
		0.4 Sp. 1 or 0.6 Sp. 4	Pier 1 or Pier 3	0.5 Sp. 2 or 0.5 Sp. 3	Pier 2
I_s	(in ⁴)	7,020	7,020	7,020	7,020
$I_c(n)$	(in ⁴)	17,796	--	17,796	--
$I_c(3n)$	(in ⁴)	13,000	--	13,000	--
$I_c(cr)$	(in ⁴)	--	8,930	--	8,930
S_s	(in ³)	505	505	505	505
$S_c(n)$	(in ³)	715	--	715	--
$S_c(3n)$	(in ³)	647	--	647	--
$S_c(cr)$	(in ³)	--	562	--	562
S_x	(in ³)	505	505	505	505
DC1	(k/')	0.90	0.90	0.90	0.90
M _{DC1}	('k)	159	289	136	298
DC2	(k/')	0.31	0.31	0.31	0.31
M _{DC2}	('k)	54	100	46	104
DW	(k/')	0.29	0.29	0.29	0.29
M _{DW}	('k)	51	94	43	97
LLDF		0.586	0.569	0.553	0.553
M _{ℓ + IM}	('k)	500	439	472	484
f_t (Strength I)	(ksi)	--	--	--	--
$M_u + 1/3 f_t S_x$	('k)	1,218	1,396	1,118	1,495
$\phi_r M_n$	('k)	3,408	--	3,408	--
f_s DC1	(ksi)	3.8	6.9	3.2	7.1
f_s DC2	(ksi)	1.0	2.1	0.9	2.2
f_s DW	(ksi)	0.9	2.0	0.8	2.1
f_s (ℓ+IM)	(ksi)	8.4	9.4	7.9	10.3
f_t (Service II)	(ksi)	--	--	--	--
$f_s + f_t/2$ (Service II)	(ksi)	16.6	23.2	15.2	24.8
Service II Resistance	(ksi)	47.5	47.5	47.5	47.5
$f_s + f_t/3$ (Strength I)	(ksi)	--	30.7	--	32.8
$\phi_r F_n$	(ksi)	--	50.0	--	50.0
V _f	(k)	42.6	44.7	43.5	47.7

GIRDER REACTION TABLE			
	Abuts.	Piers 1 or 3	Pier 2
LLDF	0.7132	0.7132	0.7132
OCF	--	--	--
R _{DC1}	(k) 17.8	56.6	56.9
R _{DC2}	(k) 5.8	19.5	19.6
R _{DW}	(k) 5.5	18.3	18.4
R _ℓ	(k) 50.6	80.1	81.4
R _{IM}	(k) 13.2	16.2	16.2
R _{Total} (Strength I)(Impact)	(k) 149.2	291.0	294.1
R _{Total} (Strength I)(No Impact)	(k) 126.2	262.7	265.8

Note:
M_ℓ and R_ℓ include the effects of centrifugal force and superelevation.

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in.⁴ and in.³).

$I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.⁴ and in.³).

$I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.⁴ and in.³).

$I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.⁴ and in.³).

S_x : Section modulus about the major axis of a section to the controlling flange, tension or compression, taken as yield moment with respect to the controlling flange over the yield strength of the controlling flange (in.³).

DC1: Un-factored non-composite dead load (kips/ft.).
 M_{DC1} : Un-factored moment due to non-composite dead load (kip-ft.).
 DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
 M_{DC2} : Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
 DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
 M_{DW} : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
 LLDF: Live Load Distribution Factor for moment and shear computed according to Article 4.6.2.2 and further IDOT provisions.
 M_{ℓ + IM} : Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
 M_u : Strength I load combination of factored design moments (kip-ft.).
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{ℓ + IM}$
 f_t : Factored calculated flange lateral bending stress as calculated using Article 6.10.1.6 and as further simplified by IDOT provisions (ksi).
 $\phi_r M_n$: Factored nominal flexural resistance of the section determined as specified in Article 6.10.7.1 or A6 as applicable (kip-ft.).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
 M_{DC1} / S_s

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
 $M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
 $M_{DW} / S_c(3n)$ or $M_{DW} / S_c(cr)$ as applicable.

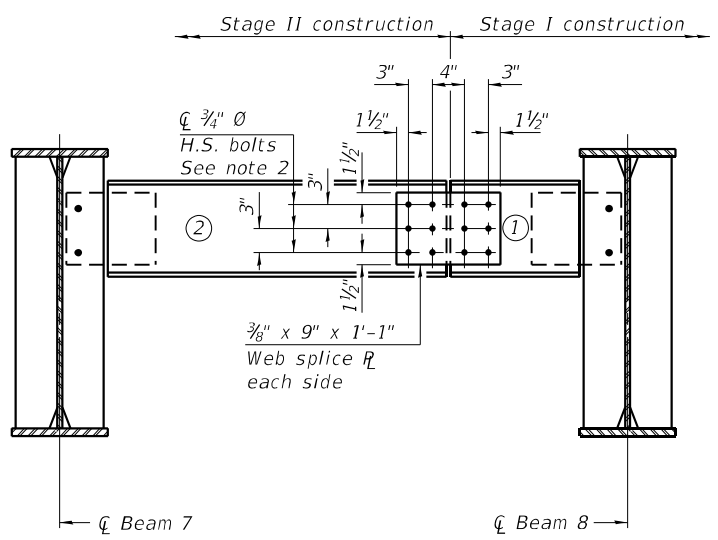
f_s (ℓ + IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
 $M_{ℓ + IM} / S_c(n)$ or $M_{ℓ + IM} / S_c(cr)$ as applicable.

$f_s + f_t/2$ (Service II): Sum of stresses as computed below (ksi).
 f_s DC1 + f_s DC2 + f_s DW + 1.3 f_s (ℓ + IM) + $f_t/2$

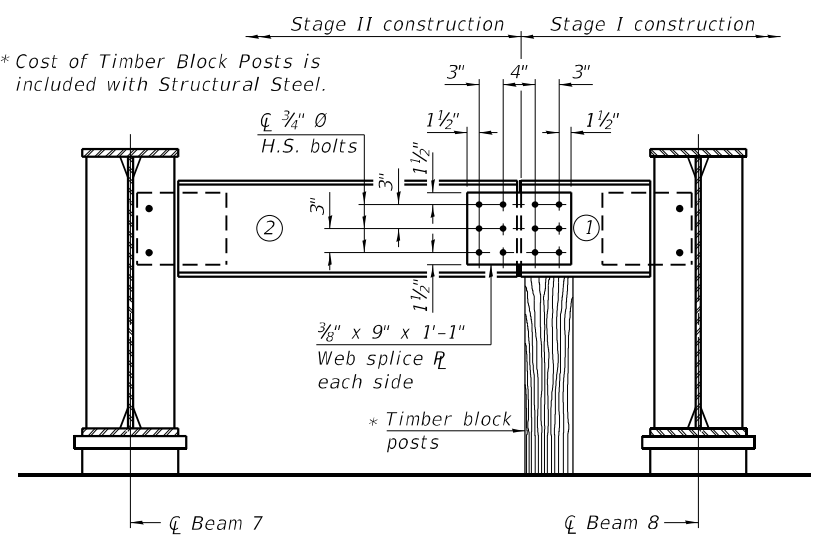
Service II Resistance: Composite (0.95R_nF_{yf}) or noncomposite (0.80R_nF_{yf}) stress capacity according to Article 6.10.4.2 (ksi).

$f_s + f_t/3$ (Strength I): Sum of stresses as computed below on non-compact sections (ksi).
 $1.25 (f_s$ DC1 + f_s DC2) + 1.5 f_s DW + 1.75 f_s (ℓ + IM) + $f_t/3$

$\phi_r F_n$: Factored nominal flexural resistance of the section as specified in Article 6.10.7.2 or 6.10.8 as applicable (ksi).
 V_f : Maximum factored shear range in span computed according to Article 6.10.10.
 OCF: Obtuse Correction Factor according to Article 4.6.2.2.3c or as further simplified by IDOT provisions.
 R_{DC1} : Un-factored reaction due to non-composite dead load (kip).
 R_{DC2} : Un-factored reaction due to long-term composite (superimposed excluding future wearing surface) dead load (kip).
 R_{DW} : Un-factored reaction due to long-term composite (superimposed future wearing surface only) dead load (kip).
 R_ℓ : Un-factored live load reaction (kip).
 R_{IM} : Un-factored dynamic load allowance (impact) (kip).
 R_{Total} (Strength I)(Impact): Strength I load combination of factored design reactions (kip).
 $1.25 (R_{DC1} + R_{DC2}) + 1.5 R_{DW} + 1.75 (R_{ℓ} + R_{IM})$
 R_{Total} (Strength I)(No Impact): Strength I load combination of factored design reactions, not including dynamic load allowance (Impact) (kip).
 $1.25 (R_{DC1} + R_{DC2}) + 1.5 R_{DW} + 1.75 (R_{ℓ})$



- 1.) Order diaphragm in two sections.
- 2.) Section ① diaphragm to receive vertical 1 3/16"x1 7/8" long slots and section ② diaphragm to receive oversize holes.
- 3.) Bolts shall be finger tight until the stage II deck pour is complete.
- 4.) Attach section ① of diaphragm to beam 8.
- 5.) Attach section ② of diaphragm to both beam 7 and section 1 of diaphragm during stage II construction with splice plates.



- 1.) Order diaphragm in two sections.
- 2.) Attach section ① of diaphragm to beam 8.
- 3.) Place timber block posts between section ① of diaphragm and abutment bearing section.
- 4.) Attach section ② of diaphragm to both beam 7 and section ① of diaphragm during stage II construction with splice plates.
- 5.) Remove timber block posts.



USER NAME =	DESIGNED - BJD	REVISED -
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PLOT SCALE =	DRAWN - GM	REVISED -
PLOT DATE =	CHECKED - BJD	REVISED -

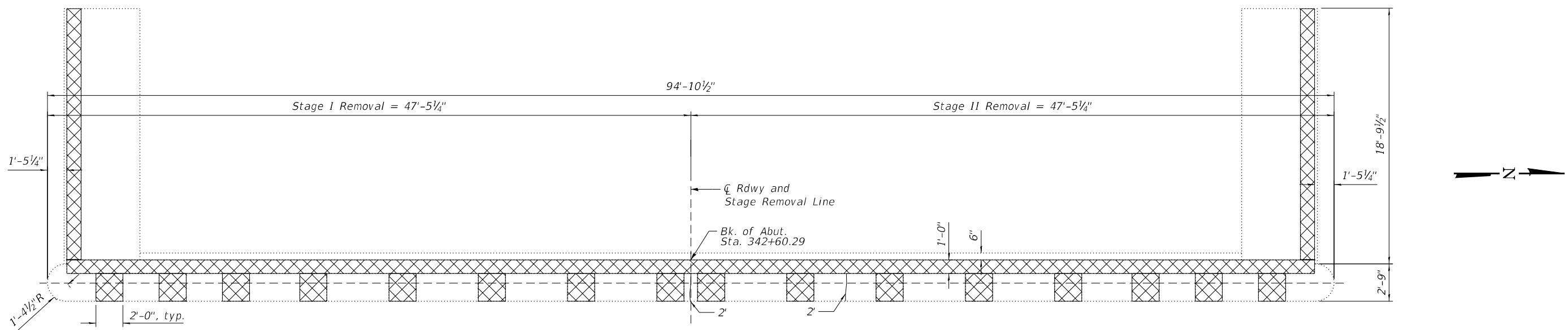
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS
SHEET NO. 016-0388

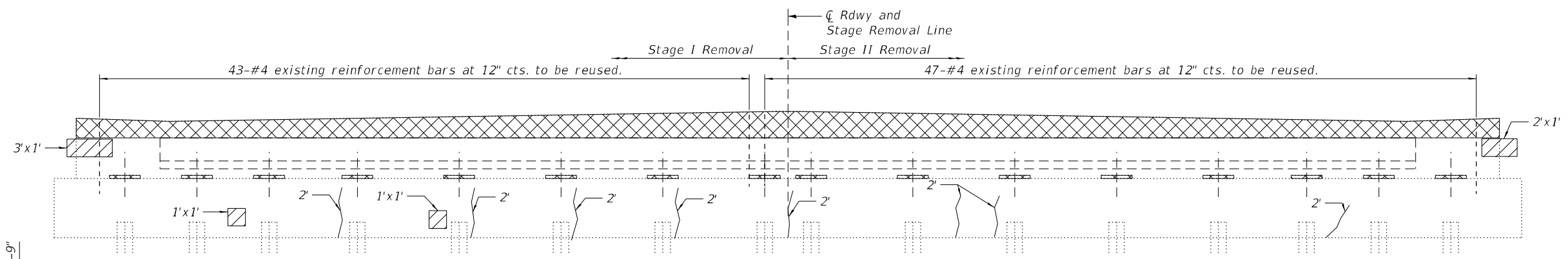
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FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62W87				
ILLINOIS FED. AID PROJECT				

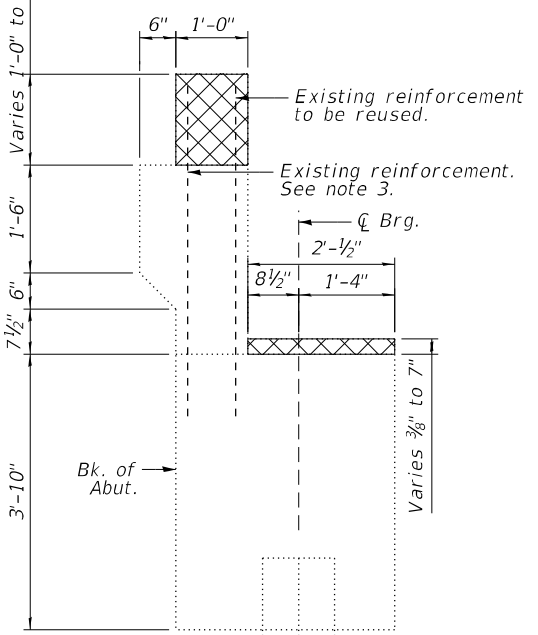
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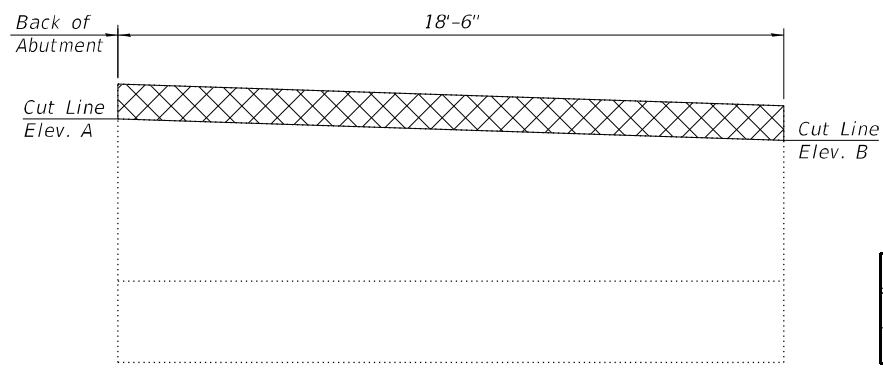
PLAN



ELEVATION
(Looking West)

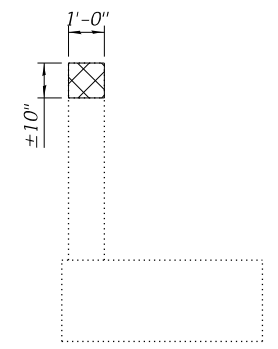


SECTION A-A



WINGWALL ELEVATION

ITEM	A	B
North Wingwall	612.97	612.65
South Wingwall	612.91	611.59



SECTION THRU
WINGWALL

- Notes:
1. Cross hatched areas indicate the limits of Concrete Removal.
 2. Existing reinforcement extending into new construction shall be cleaned, straightened, and incorporated into the new construction. Cost included with Concrete Removal.
 3. Existing reinforcement not extending into new construction shall be cut flush and covered with a 2" layer of cement grout. Cost included with Concrete Removal.
 4. The elevations shown above were calculated from the survey information provided by the district.
 5. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost incidental to "Concrete Removal".
 6. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost incidental to "Concrete Removal".

LEGEND:

- Concrete Removal
- Structural Repair Of Concrete (Depth Equal To Or Less Than 5 In)
- Epoxy Crack Injection

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 In)	Sq. Ft.	7
Epoxy Crack Injection	Foot	20
Concrete Removal	Cu. Yd.	8.2



USER NAME =	DESIGNED - BJD	REVISED -
PLOT SCALE =	CHECKED - MGH	REVISED -
PLOT DATE =	DRAWN - GM	REVISED -
	CHECKED - BJD	REVISED -

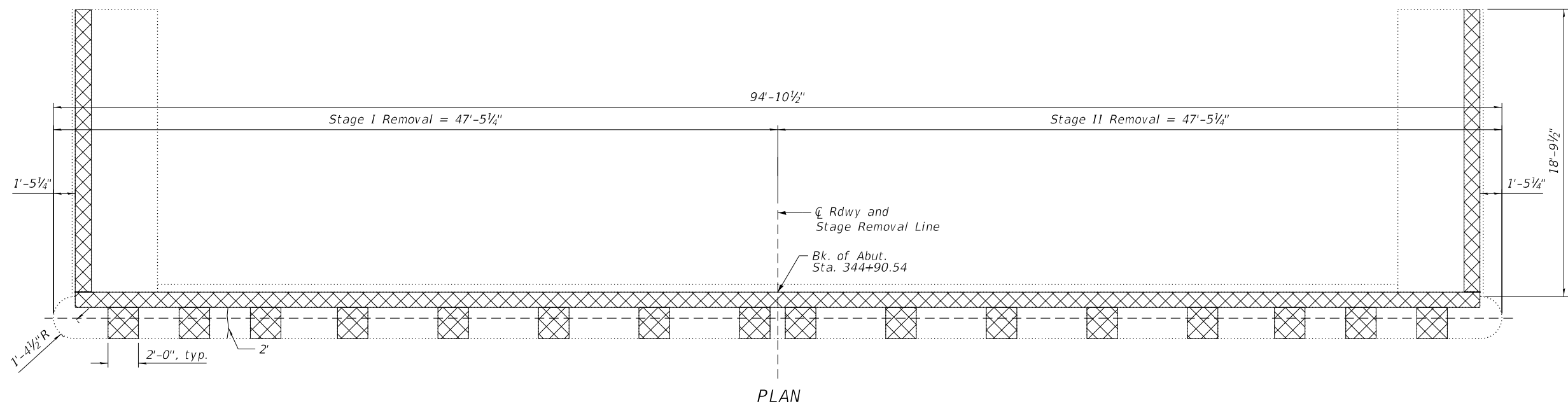
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT REMOVAL AND REPAIRS
STRUCTURE NO. 016-0388

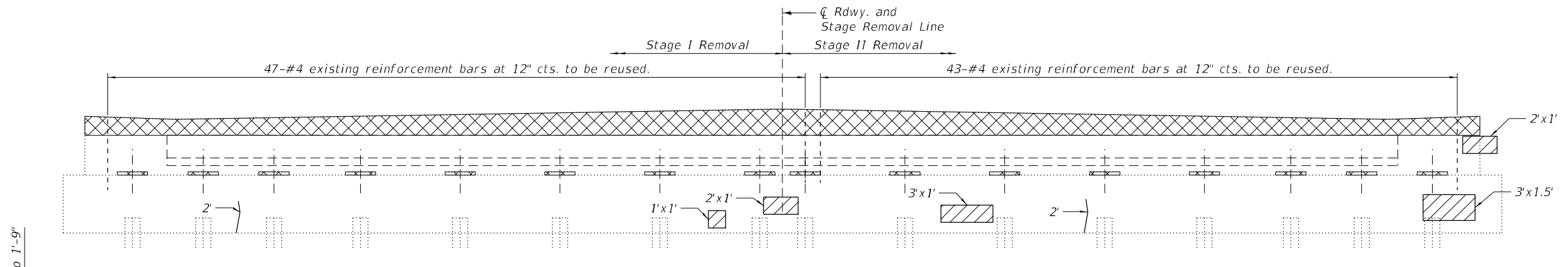
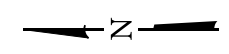
SHEET S10-27 OF S10-37 SHEETS

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62W87				
ILLINOIS FED. AID PROJECT				

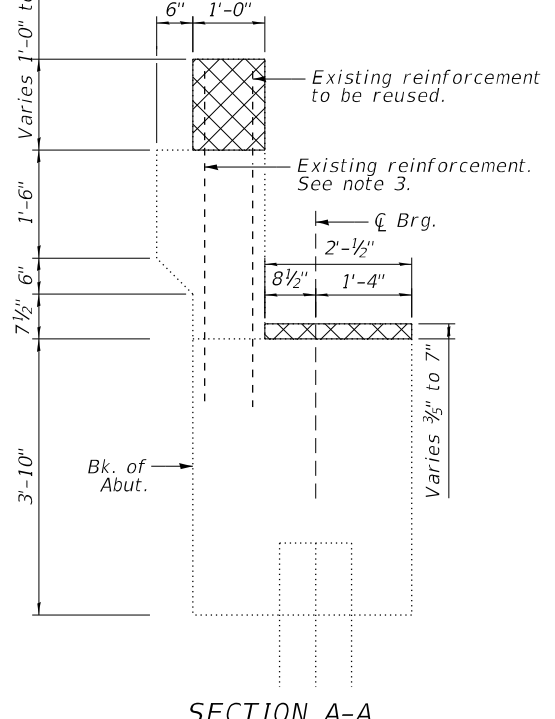
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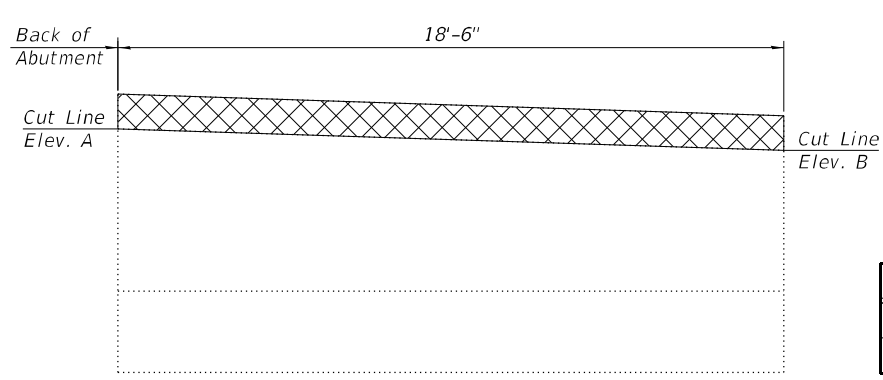
PLAN



ELEVATION
(Looking East)

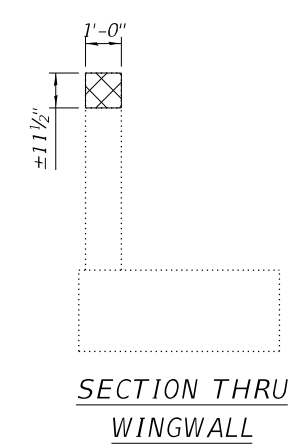


SECTION A-A



WINGWALL ELEVATION

ITEM	A	B
North Wingwall	613.09	612.79
South Wingwall	613.05	612.75



SECTION THRU
WINGWALL

Notes:
 1. See sheet S10-27 for notes.

LEGEND:

- Concrete Removal
- Structural Repair Of Concrete (Depth Equal To Or Less Than 5 In)
- Epoxy Crack Injection

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 In)	Sq. Ft.	13
Epoxy Crack Injection	Foot	6
Concrete Removal	Cu. Yd.	8.2



USER NAME =	DESIGNED - BJD	REVISED -
PLOT SCALE =	CHECKED - MGH	REVISED -
PLOT DATE =	DRAWN - GM	REVISED -
	CHECKED - BJD	REVISED -

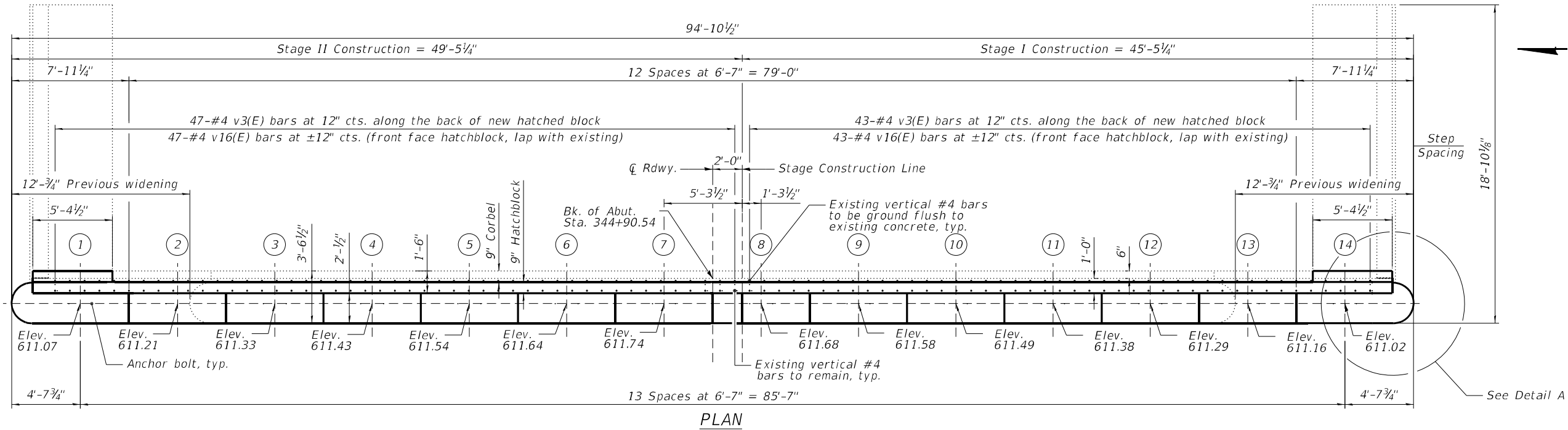
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT REMOVAL AND REPAIRS
 STRUCTURE NO. 016-0388

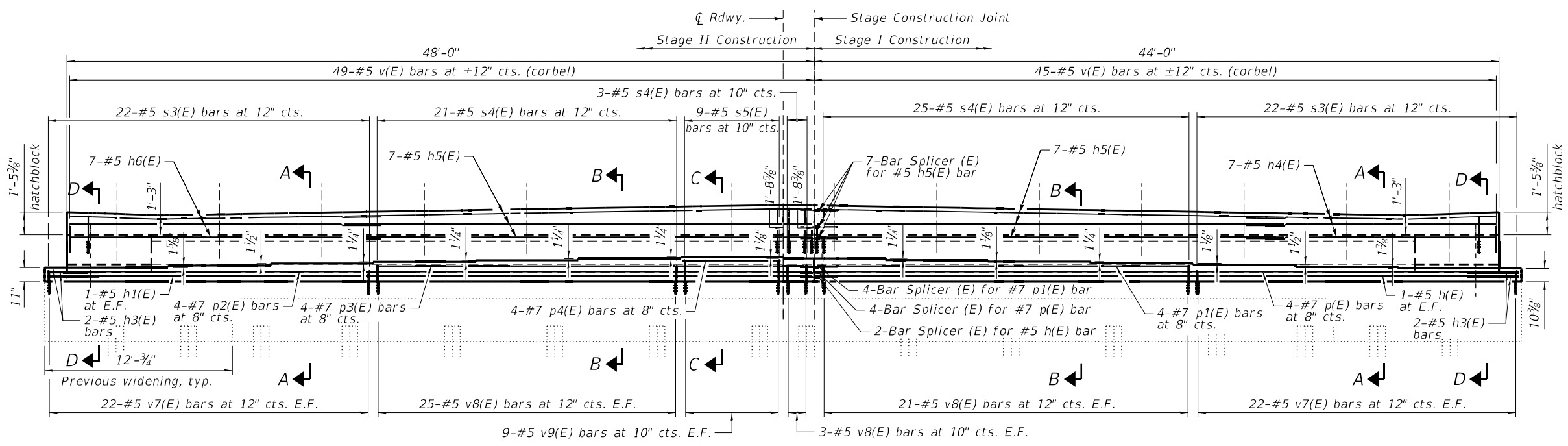
SHEET S10-28 OF S10-37 SHEETS

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62W87				
ILLINOIS FED. AID PROJECT				

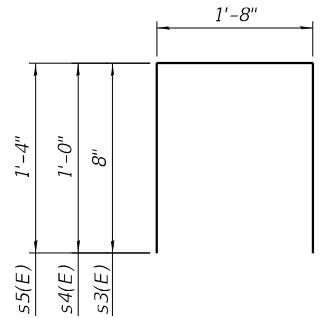
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PLAN



ELEVATION



BARS s3(E), s4(E) AND s5(E)

EAST ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	2	#5	45'-1"	—
h1(E)	2	#5	49'-1"	—
h2(E)	6	#4	7'-8"	—
h3(E)	4	#5	7'-2"	┌
h4(E)	7	#4	16'-1"	—
h5(E)	14	#4	30'-0"	—
h6(E)	7	#4	20'-1"	—
p(E)	4	#7	45'-1"	—
p1(E)	4	#7	24'-0"	—
p2(E)	4	#7	49'-1"	—
p3(E)	4	#7	28'-0"	—
p4(E)	4	#7	6'-3"	—
s3(E)	44	#5	3'-0"	□
s4(E)	49	#5	3'-8"	□
s5(E)	9	#5	4'-4"	□
v(E)	94	#5	2'-7"	—
v1(E)	12	#4	2'-7"	—
v2(E)	12	#4	2'-6"	—
v3(E)	90	#4	2'-2"	—
v7(E)	88	#5	1'-6"	—
v8(E)	98	#5	1'-10"	—
v9(E)	18	#5	2'-4"	—
v16(E)	90	#4	2'-0"	—
Concrete Structures			Cu. Yd.	10.3
Reinforcement Bars, Epoxy Coated			Pound	6,490
Concrete Sealer			Sq. Ft.	194

Notes:
1. See Sheet S10-29 for notes.



USER NAME =	DESIGNED - BJD	REVISED -
	CHECKED - MGH	REVISED -
PLOT SCALE =	DRAWN - GM	REVISED -
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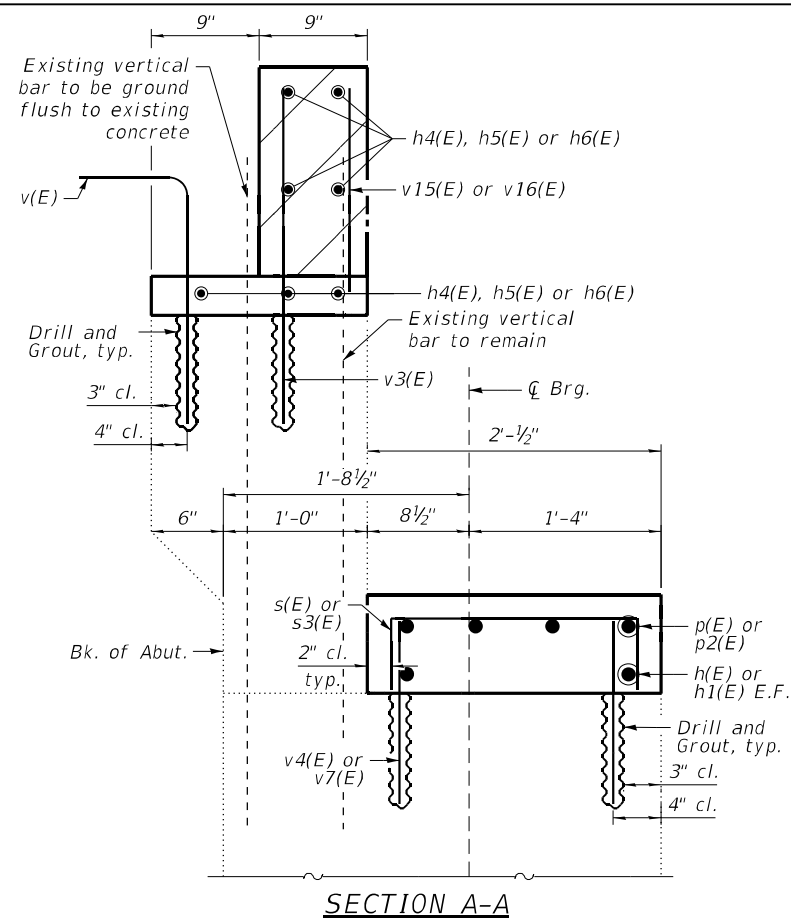
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT MODIFICATIONS
STRUCTURE NO. 016-0388

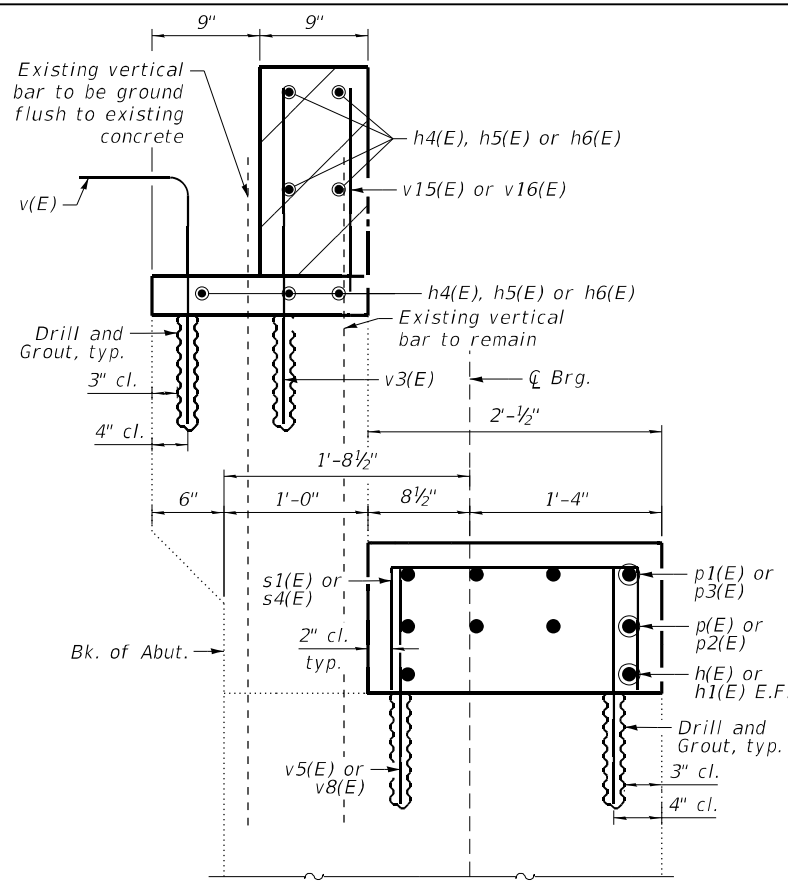
SHEET S10-30 OF S10-37 SHEETS

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
581	(42-B-11-1) BR, BUR 24	COOK	761	728
CONTRACT NO. 62W87				
ILLINOIS FED. AID PROJECT				

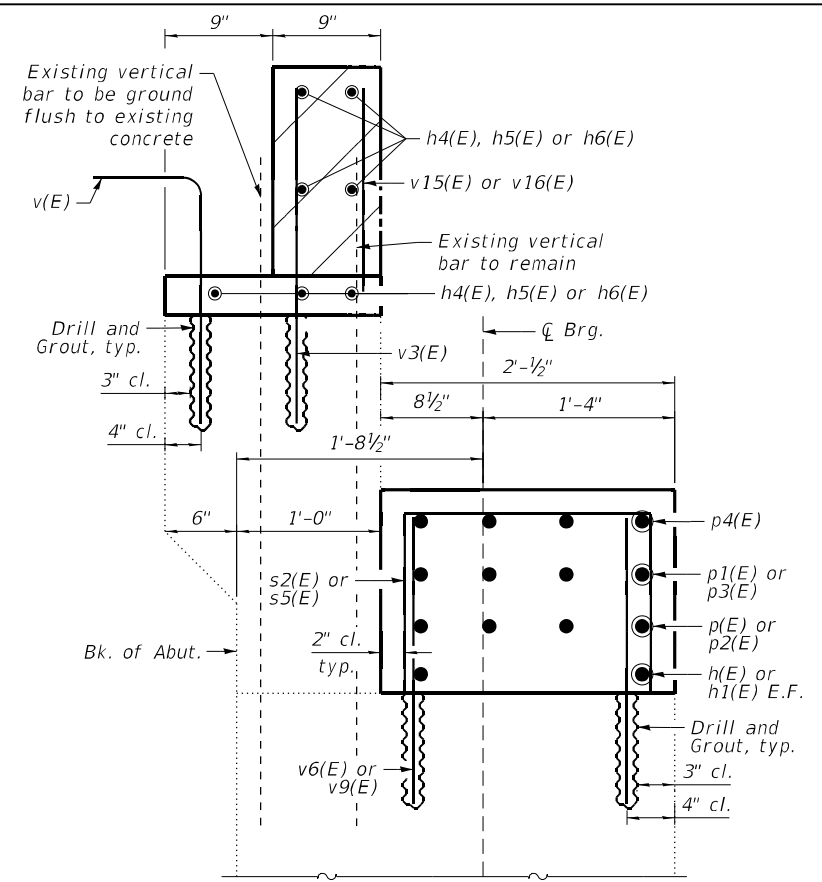
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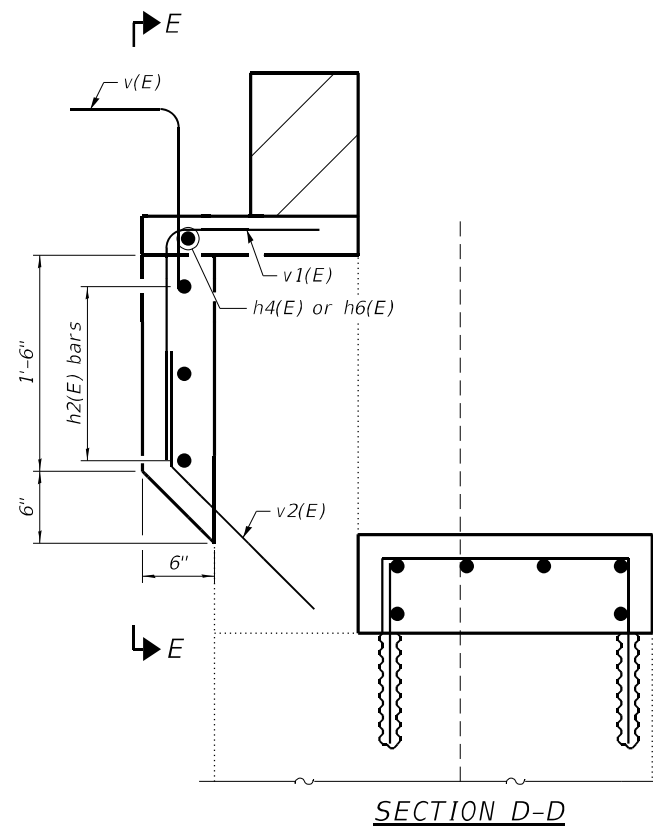
SECTION A-A



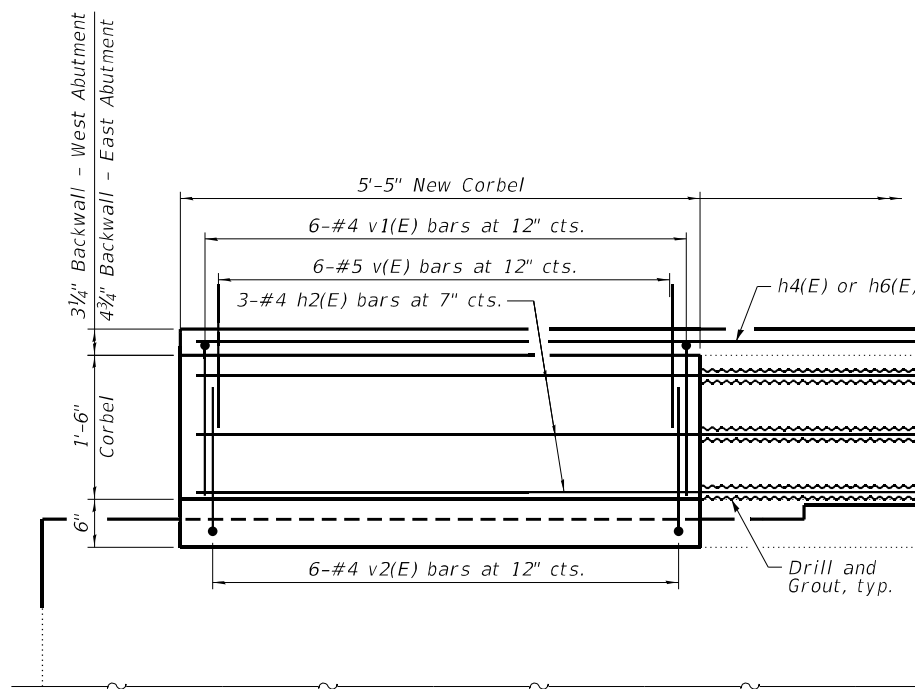
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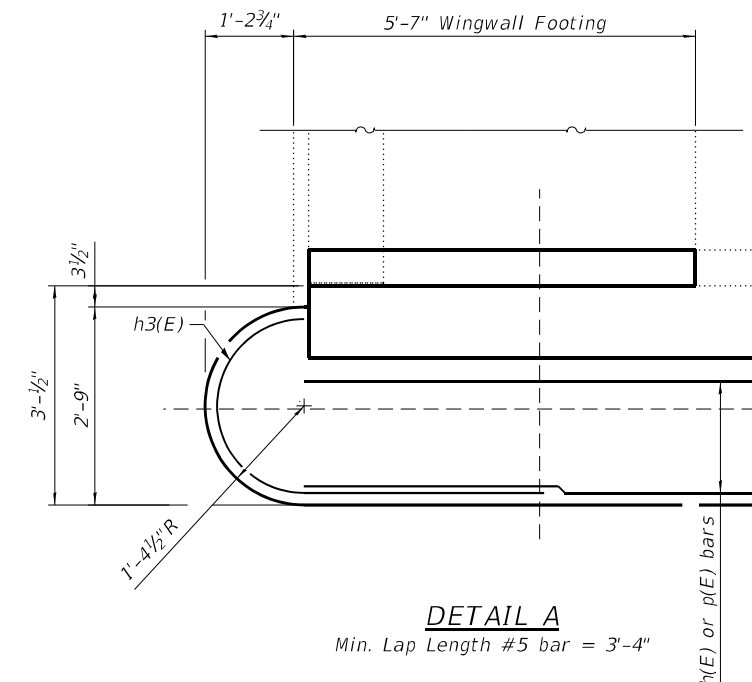
SECTION C-C



SECTION D-D



SECTION E-E
 Min. Lap Length #4 bar = 2'-5"



DETAIL A
 Min. Lap Length #5 bar = 3'-4"

Notes:
 1. See sheet S10-29 for notes.



USER NAME =	DESIGNED - BJD	REVISED -
	CHECKED - MGH	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

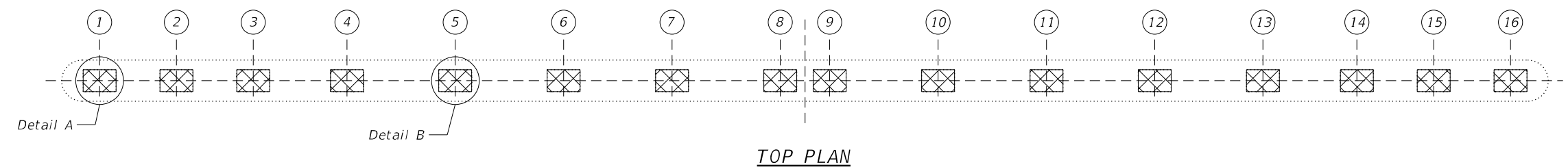
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 STRUCTURE NO. 016-0388

SHEET S10-30A OF S10-37 SHEETS

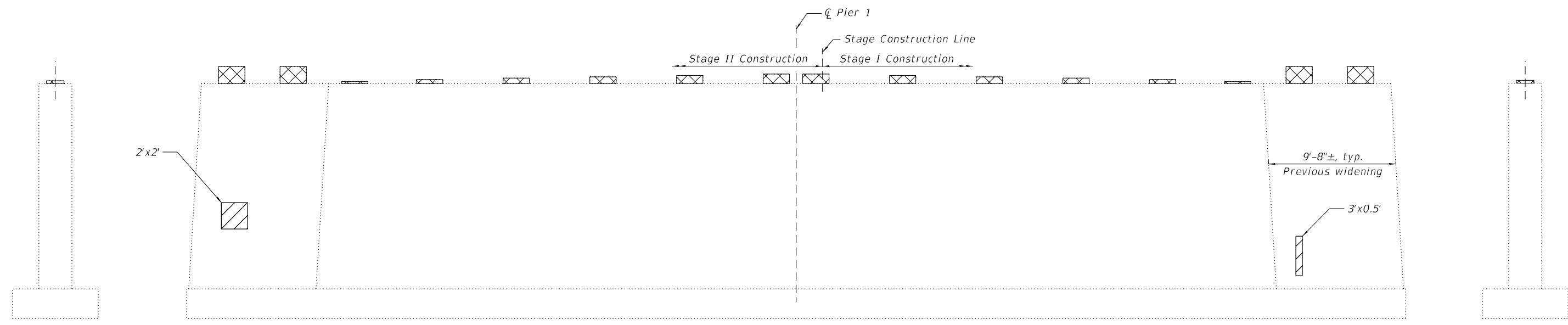
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CONTRACT NO. 62W87				

ILLINOIS FED. AID PROJECT

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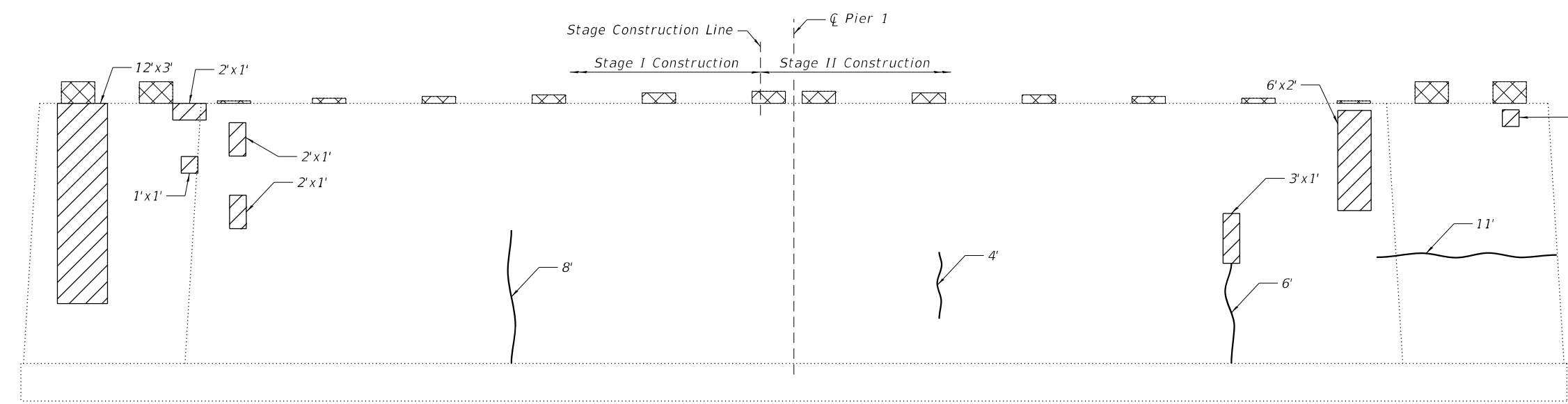
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WEST FACE

NORTH FACE

SOUTH FACE

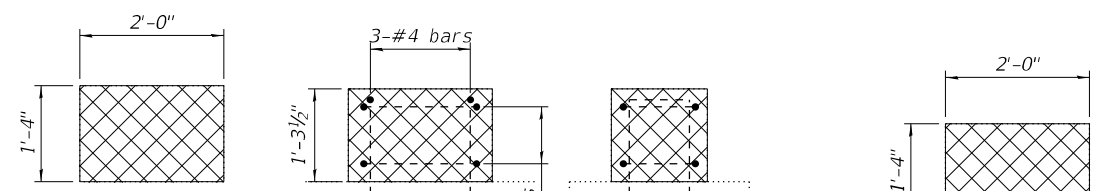


EAST FACE

LEGEND:

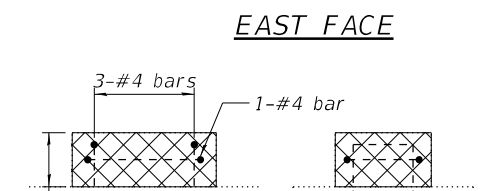
- Concrete Removal
- Structural Repair Of Concrete (Depth Equal To Or Less Than 5 In)
- Epoxy Crack Injection

- Notes:**
- See sheet S10-27 for notes.
 - Bearing seats 3,4,13 and 14 do not contain rebar per as-built plans.
 - For existing rebar in bearing seats, see note 3 on sheet S10-27.



DETAIL A

Applies to bearing seats 1,2,15 and 16
 Pier 3 bearing seats are similar.



DETAIL B

Applies to bearing seats 5-12
 Pier 3 bearing seats are similar.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	2.1
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 In)	Sq. Ft.	65
Epoxy Crack Injection	Foot	29



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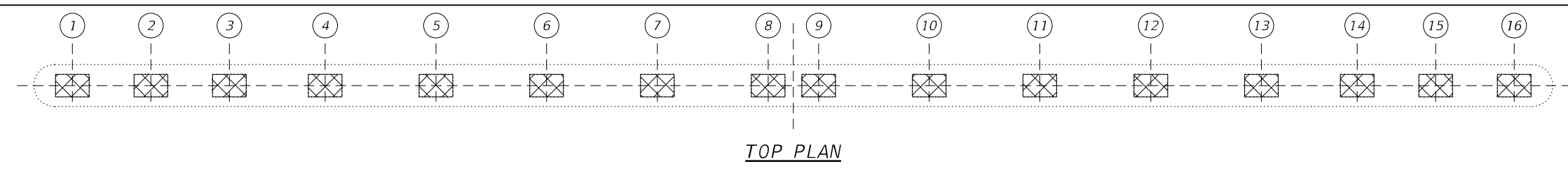
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PIER 1 REMOVAL AND REPAIRS
 STRUCTURE NO. 016-0388**

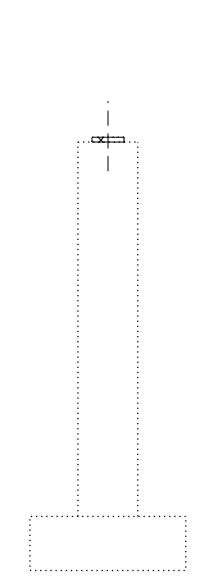
SHEET S10-31 OF S10-37 SHEETS

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62W87				
ILLINOIS FED. AID PROJECT				

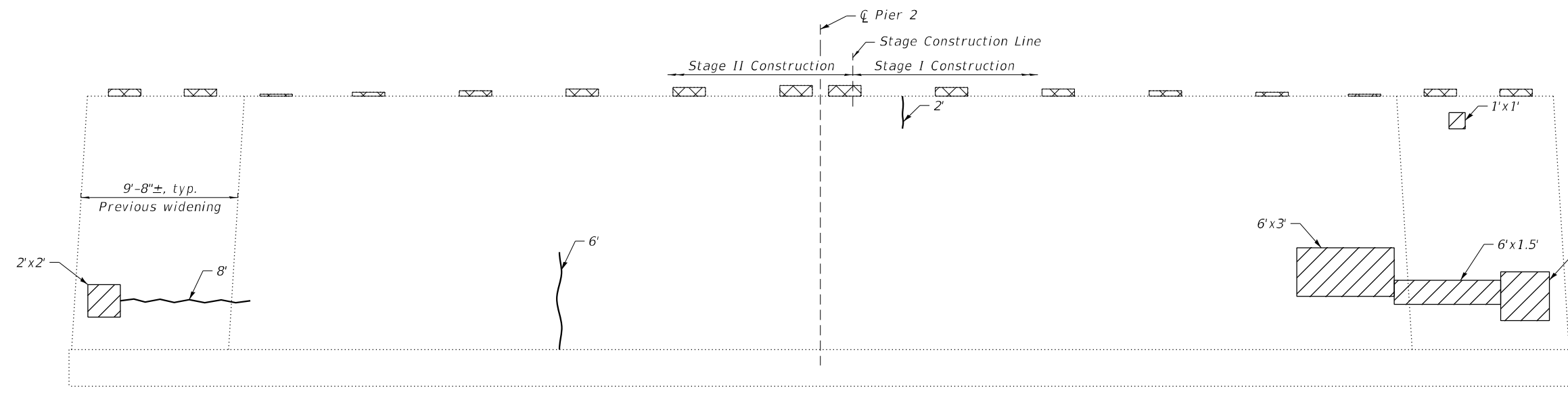
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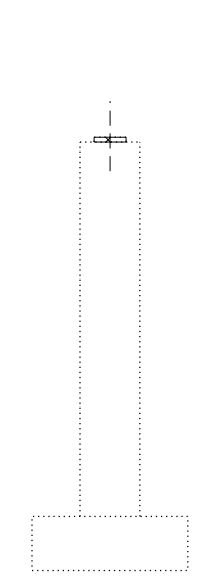
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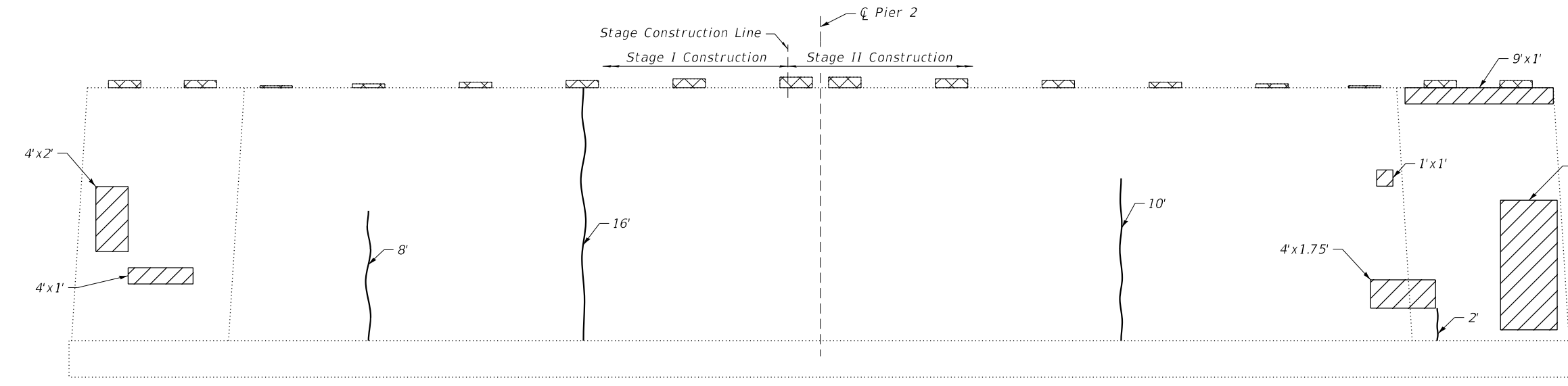
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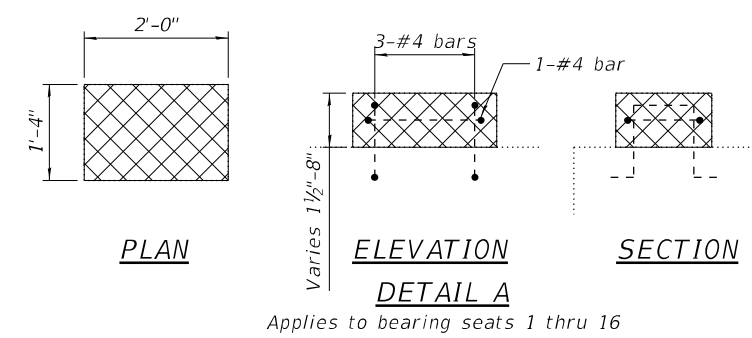
WEST FACE



SOUTH FACE



EAST FACE



Applies to bearing seats 1 thru 16

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	0.7
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 In)	Sq. Ft.	98
Epoxy Crack Injection	Foot	52

LEGEND:

- Concrete Removal
- Structural Repair Of Concrete
(Depth Equal To Or Less Than 5 In)
- Epoxy Crack Injection

Notes:
 1. See sheet S10-27 for notes.



USER NAME =	DESIGNED - BJD	REVISED -
PLOT SCALE =	CHECKED - MGH	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

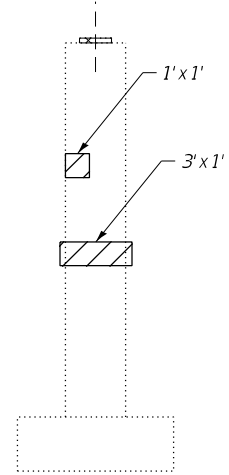
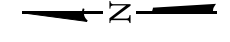
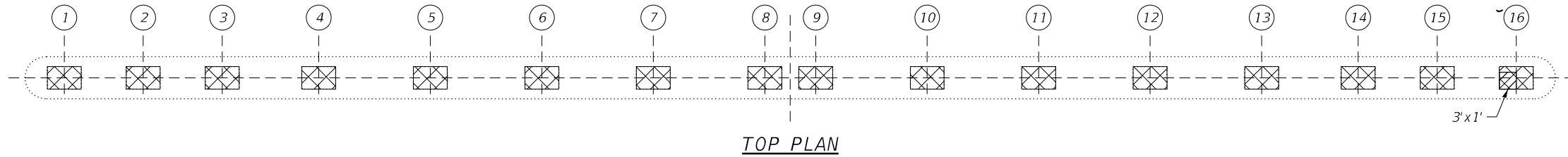
PIER 2 REMOVAL AND REPAIRS
 STRUCTURE NO. 016-0388

SHEET S10-32 OF S10-37 SHEETS

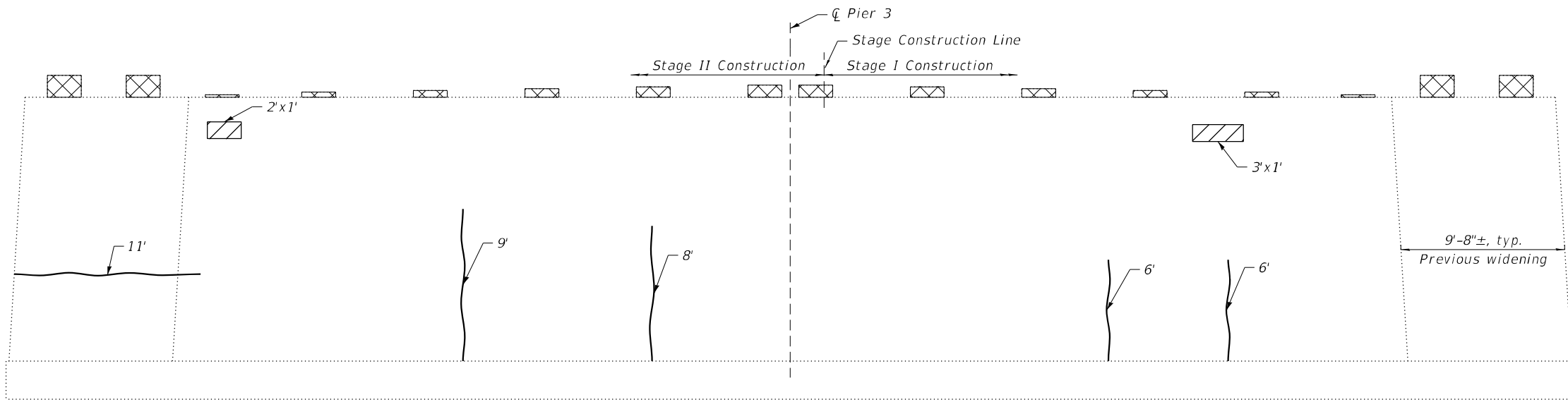
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CONTRACT NO. 62W87				

ILLINOIS FED. AID PROJECT

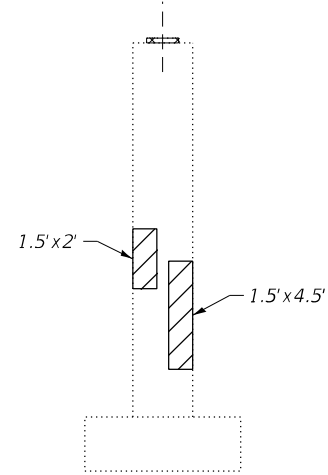
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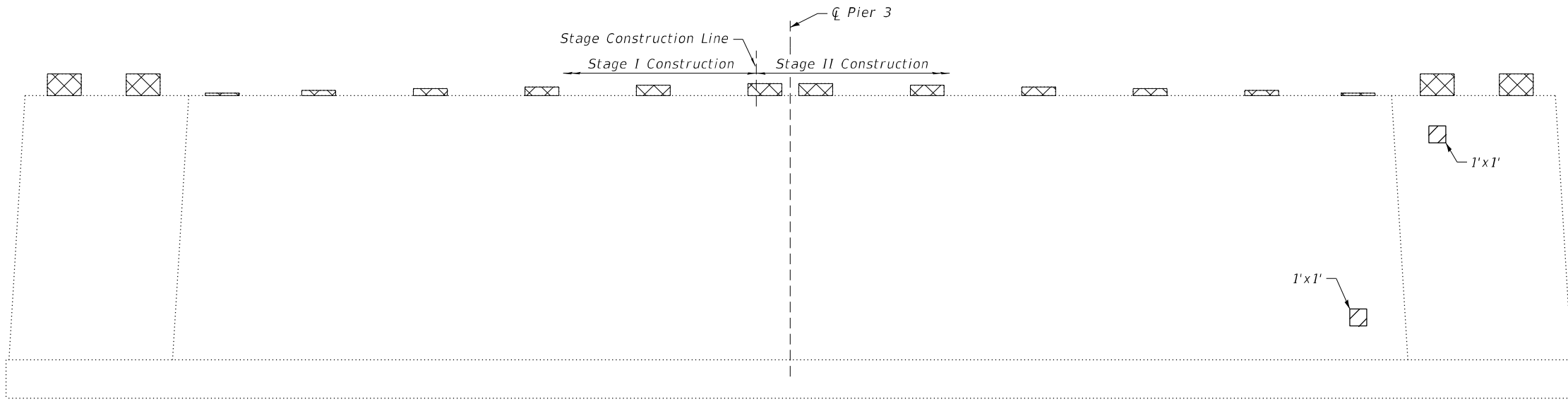
NORTH FACE



WEST FACE



SOUTH FACE



EAST FACE

LEGEND:

- Concrete Removal
- Structural Repair Of Concrete (Depth Equal To Or Less Than 5 In)
- Epoxy Crack Injection

- Notes:
1. See sheet S10-27 for notes.
 2. See sheet S10-31 for existing bearing seat details
 3. Bearing seats 3,4,13 and 14 do not contain rebar per as-built plans.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	2.1
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 In)	Sq. Ft.	24
Epoxy Crack Injection	Foot	40



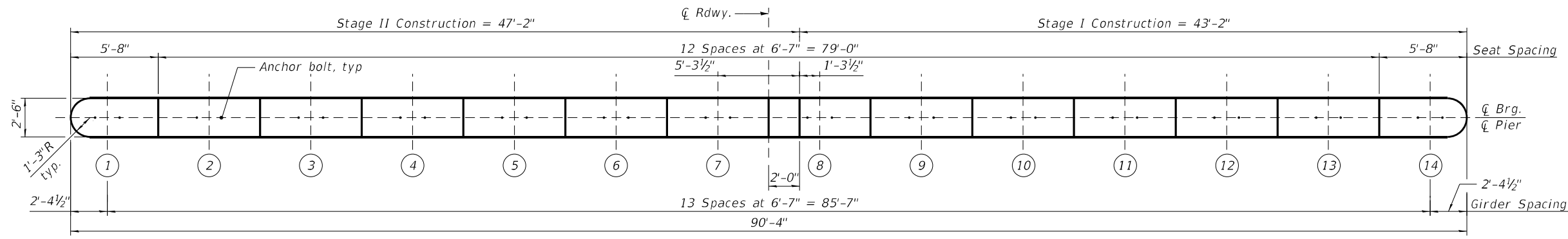
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

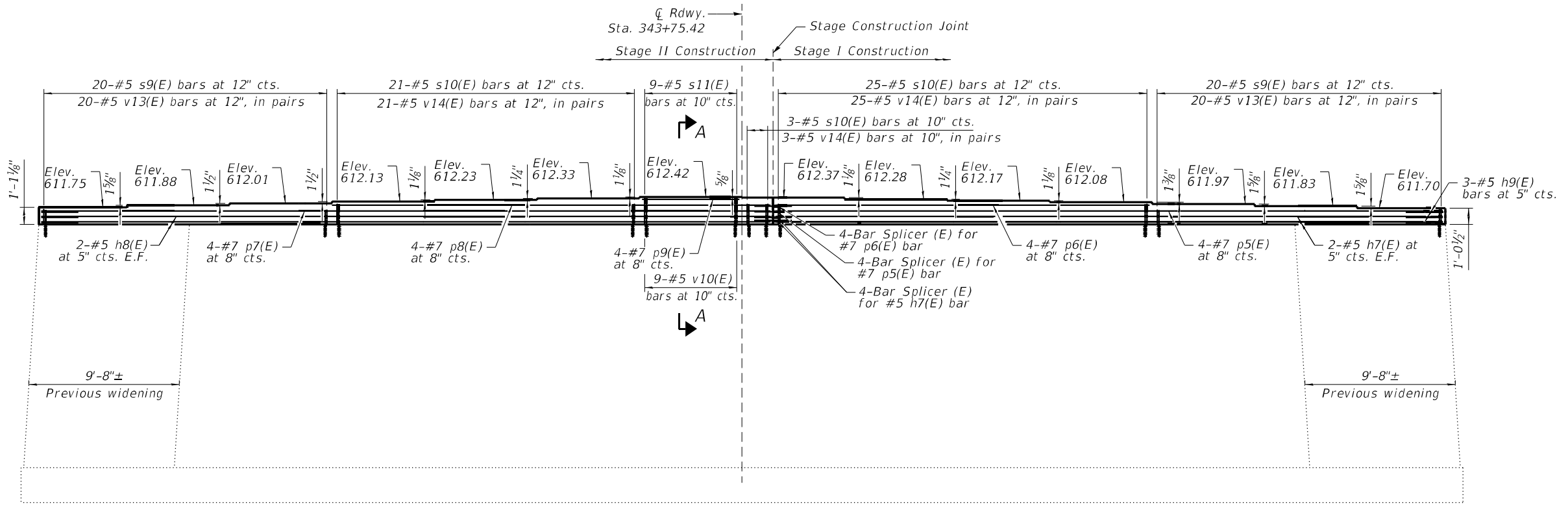
**PIER 3 REMOVAL AND REPAIRS
 STRUCTURE NO. 016-0388**

SHEET S10-33 OF S10-37 SHEETS

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62W87				
ILLINOIS FED. AID PROJECT				



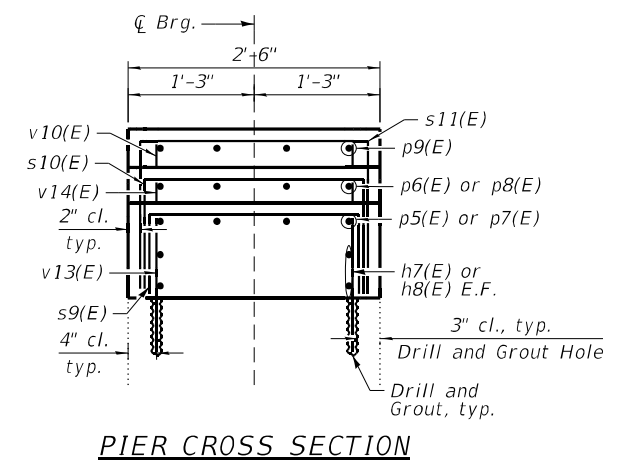
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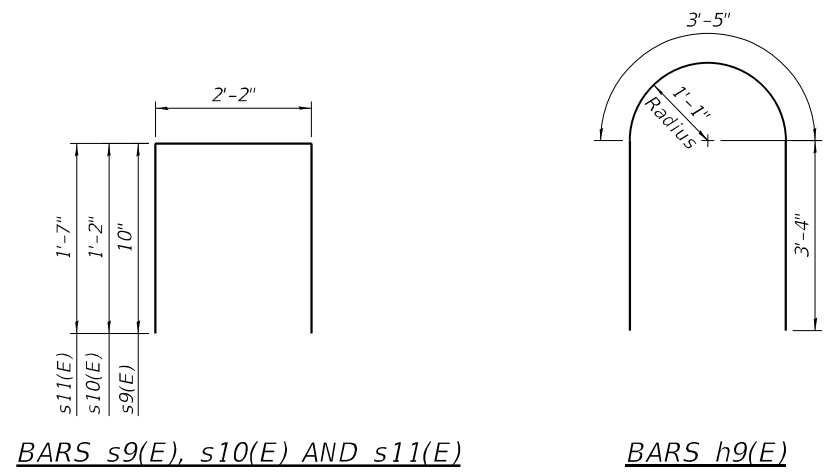
PIER 2 ELEVATION
(Looking East)

PIER 2 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h7(E)	4	#5	41'-9"	—
h8(E)	4	#5	45'-9"	—
h9(E)	6	#5	10'-1"	U
p5(E)	4	#7	41'-9"	—
p6(E)	4	#7	24'-0"	—
p7(E)	4	#7	45'-9"	—
p8(E)	4	#7	28'-0"	—
p9(E)	4	#7	6'-3"	—
s9(E)	40	#5	3'-10"	□
s10(E)	49	#5	4'-6"	□
s11(E)	8	#5	5'-4"	□
v10(E)	80	#5	2'-7"	—
v13(E)	98	#5	1'-11"	—
v14(E)	16	#5	2'-3"	—
Concrete Structures			Cu. Yd.	12.4
Reinforcement Bars, Epoxy Coated			Pound	5,010
Concrete Sealer			Sq Ft	224



PIER CROSS SECTION



BARS s9(E), s10(E) AND s11(E)

BARS h9(E)

Notes:
1. See Sheet S10-29 for notes.
2. See Sheet S10-37 for Bar Splicer details.

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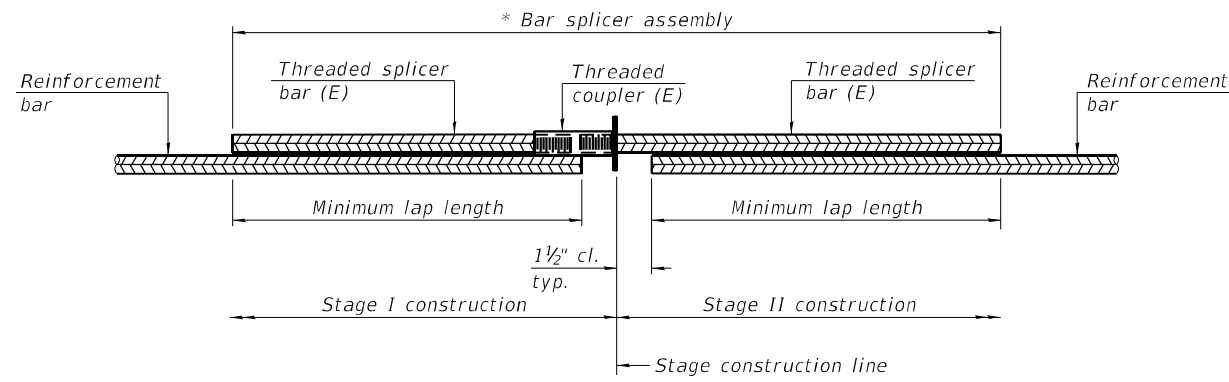
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 2 MODIFICATIONS
STRUCTURE NO. 016-0388

SHEET S10-35 OF S10-37 SHEETS

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
581	(42-B-11-1) BR, BJR 24	COOK	761	733
CONTRACT NO. 62W87				
ILLINOIS		FED. AID PROJECT		

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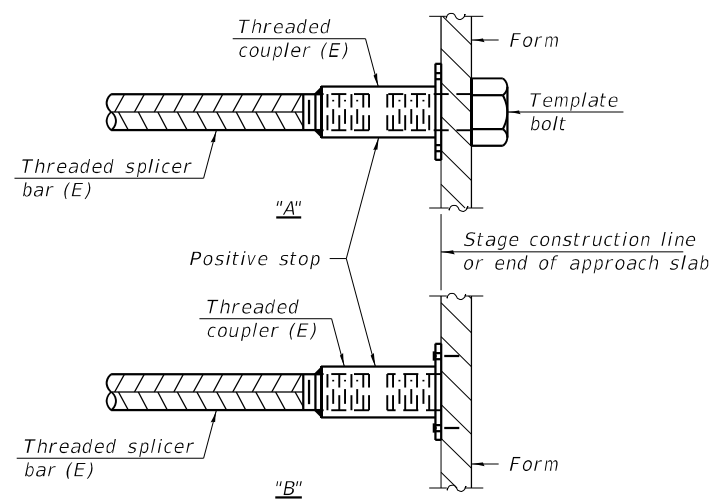
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#5	684	3'-6"
Approach Slab	#5	92	3'-4"
Approach Slab	#8	120	4'-9"
Approach Footing	#5	80	3'-4"
West Abutment	#5	9	3'-4"
West Abutment	#7	8	4'-8"
East Abutment	#5	9	3'-4"
East Abutment	#7	8	4'-8"
Pier 1	#5	6	3'-4"
Pier 1	#7	8	4'-8"
Pier 2	#5	4	3'-4"
Pier 2	#7	8	4'-8"
Pier 3	#5	6	3'-4"
Pier 3	#7	8	4'-8"

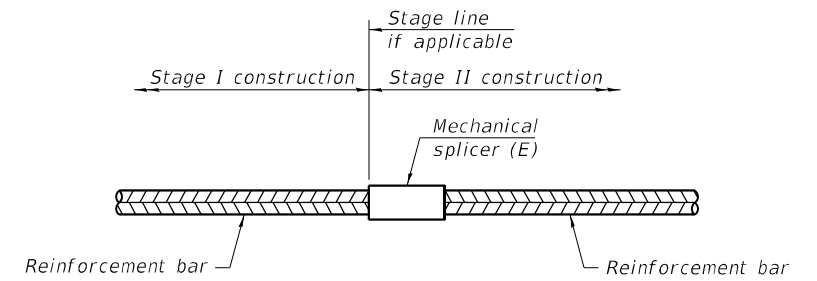


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

5-15-2023



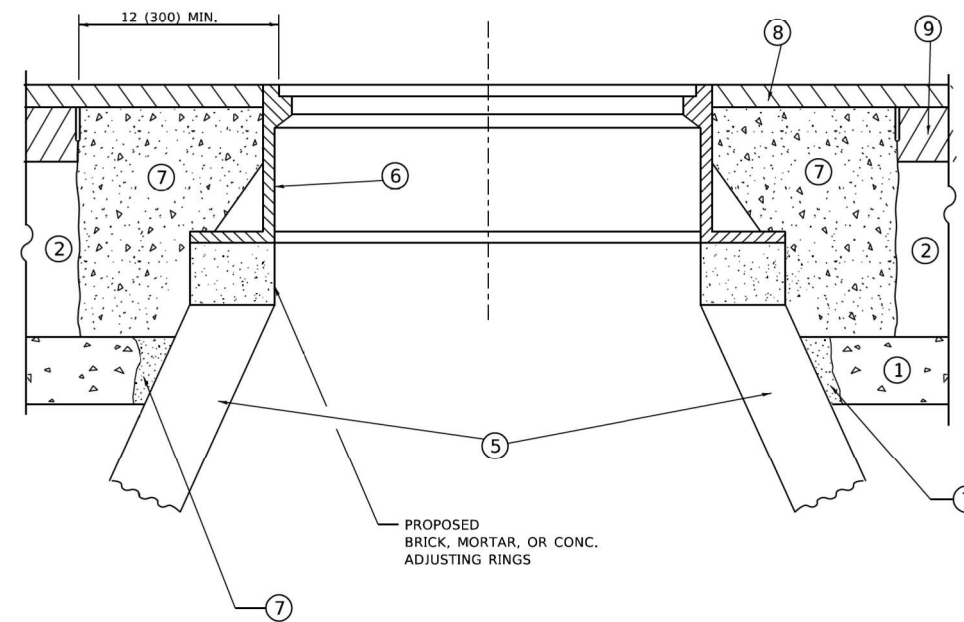
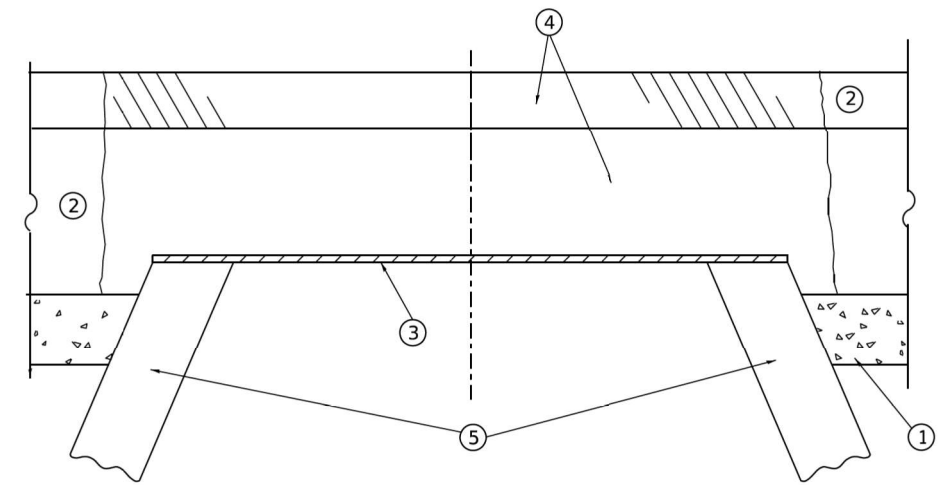
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 016-0388**

SHEET S10-37 OF S10-37 SHEETS

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
581	(42-B-11-1) BR, BJR 24	COOK	761	735
CONTRACT NO. 62W87				
ILLINOIS		FED. AID PROJECT		



**DETAILS FOR FRAMES AND LIDS ADJUSTMENT
WITH MILLING**

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 3 (80) HMA TO REMAIN AFTER MILLING).

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-2* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

- | | |
|--|-------------------------------|
| ① SUB-BASE GRANULAR MATERIAL | ⑥ FRAME AND LID (SEE NOTES) |
| ② EXISTING PAVEMENT | ⑦ CLASS PP-2* CONCRETE |
| ③ 36 (900) DIAMETER METAL PLATE | ⑧ PROPOSED HMA SURFACE COURSE |
| ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX | ⑨ PROPOSED HMA BINDER COURSE |
| ⑤ EXISTING STRUCTURE | |

LOCATION OF STRUCTURES

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT

- 1. REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."
- 2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
- 3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
- 4. WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

NOTES

- 1. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- 2. IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.
- 3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
- 4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- 5. THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

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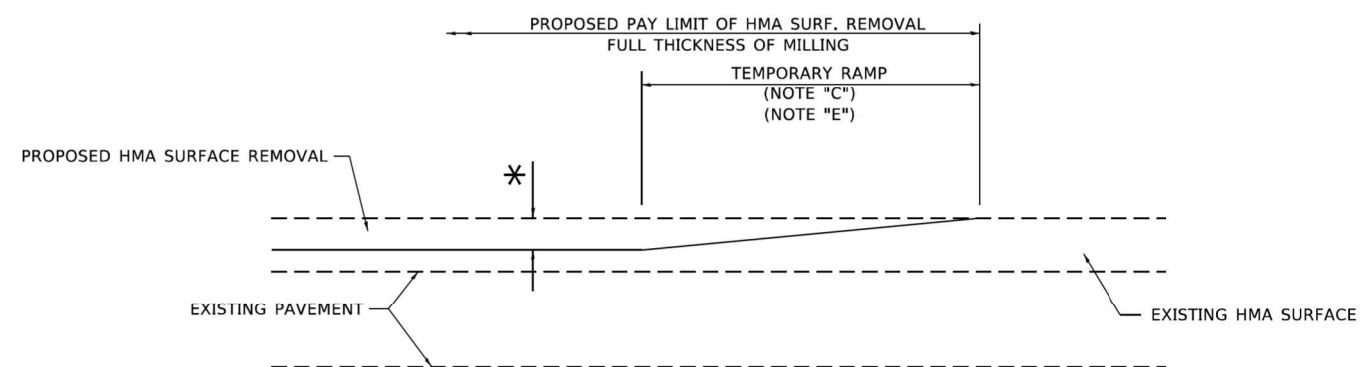
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

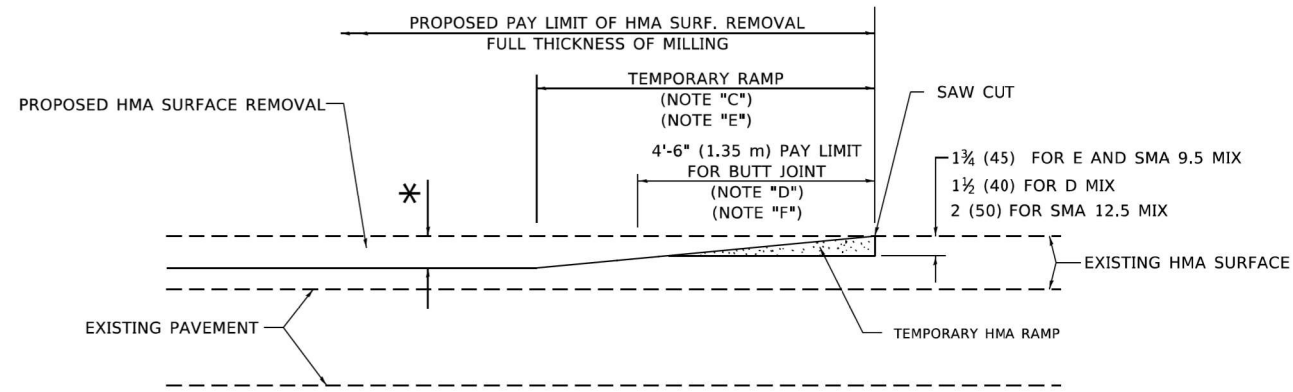
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94	(42-B-11-1) BR, BJR 24	COOK	761	736
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ILLINOIS FED. AID PROJECT				



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

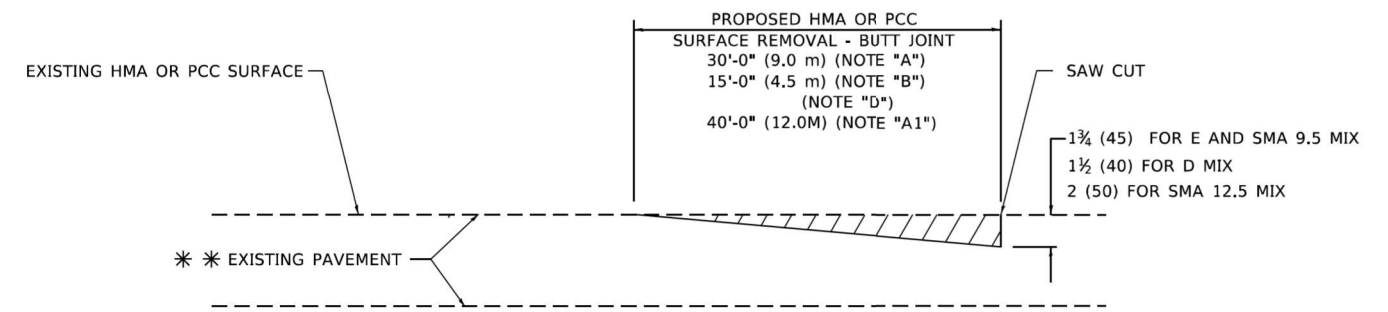


HMA CONSTRUCTED TEMPORARY RAMP

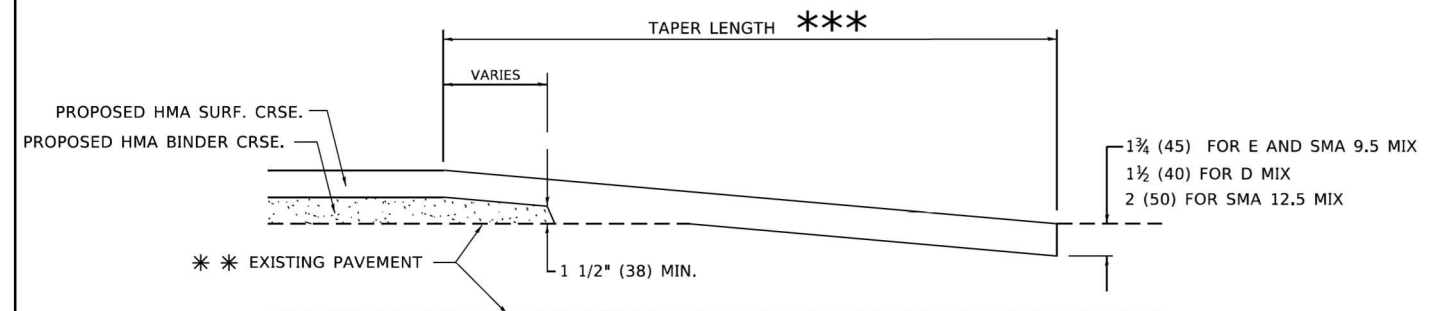
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

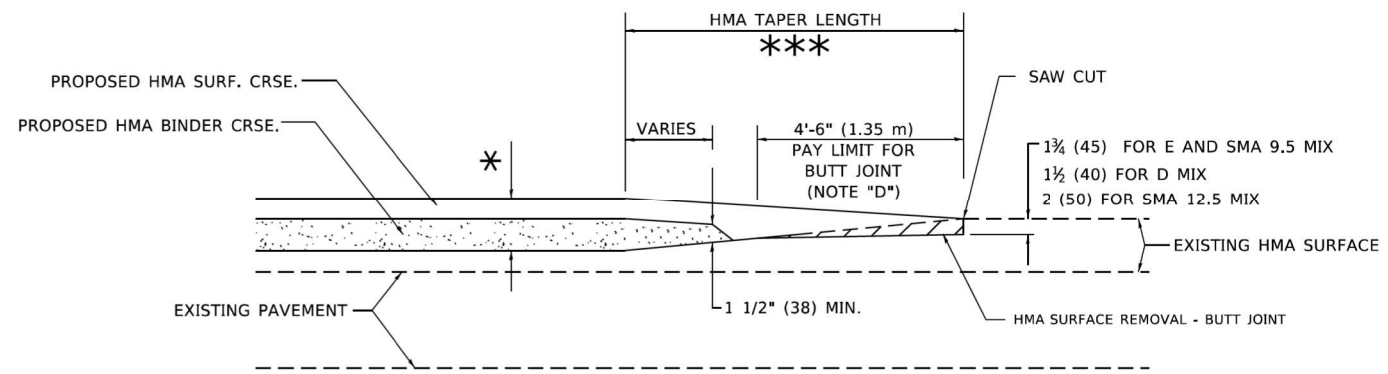
GENERAL NOTES

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

- 1. THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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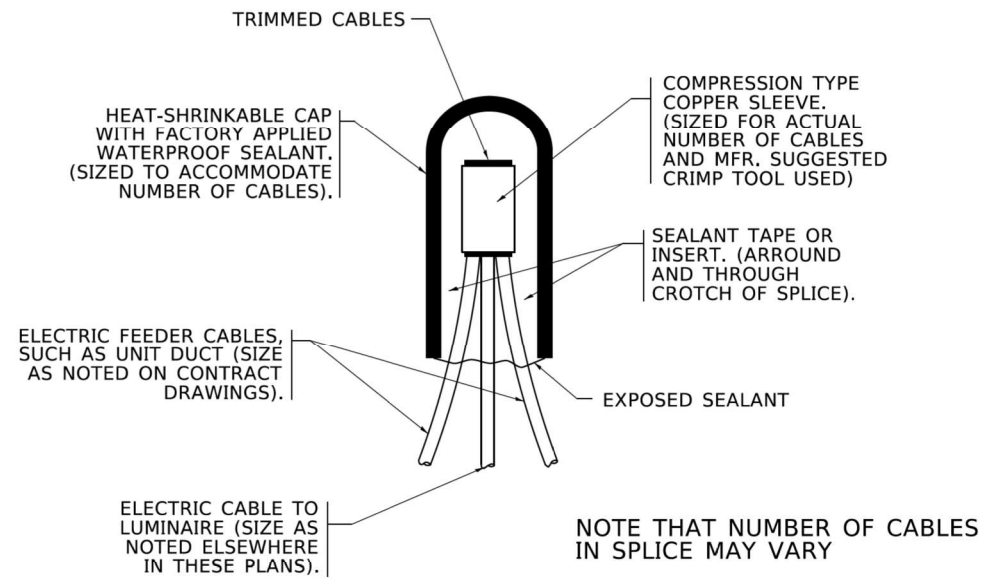
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	DRAWN -	REVISED - M. GOMEZ 04-06-01
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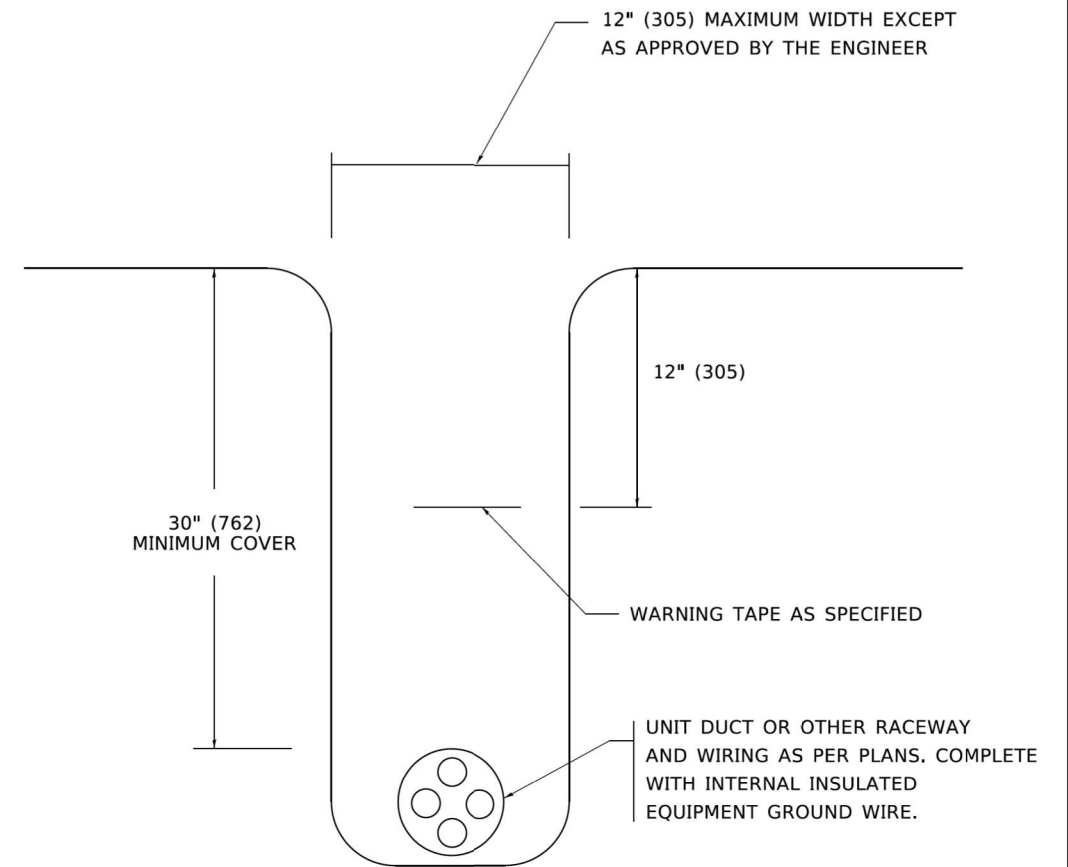
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BUTT JOINT AND HMA TAPER DETAILS

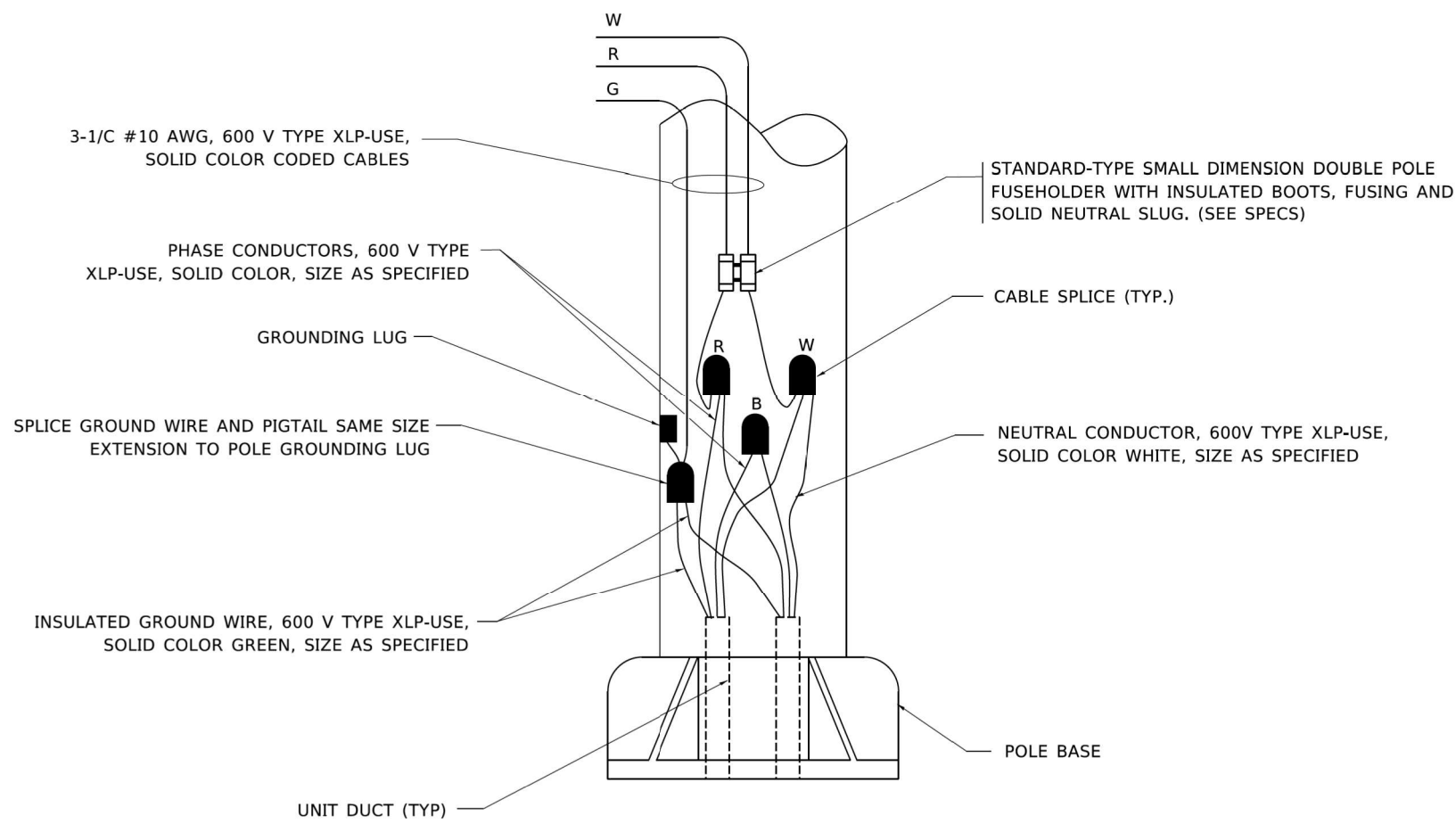
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94	(42-B-11-1) BR, BJR 24	COOK	761	737
BD400-05 BD-32		CONTRACT NO. 62W87		
ILLINOIS FED. AID PROJECT				



TYPICAL SPLICE DETAIL
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL
N.T.S.



POLE WIRING DETAIL
N.T.S.

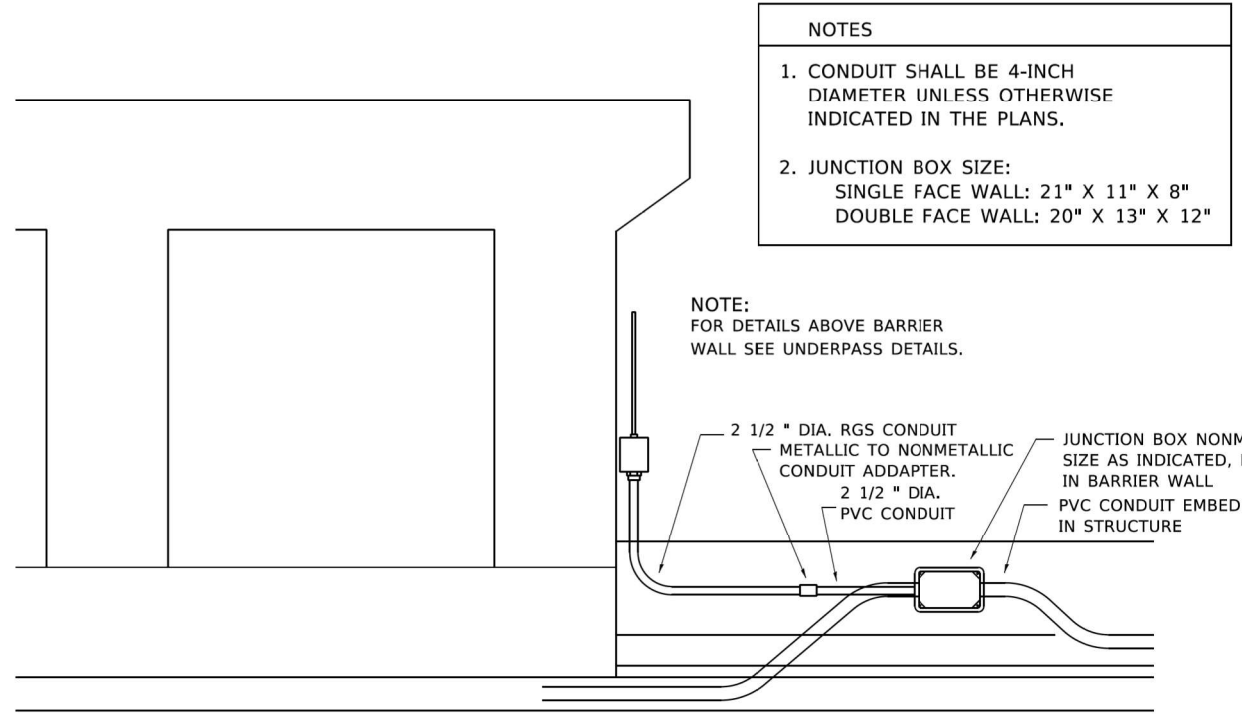
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	DATE - 08/08/2003	REVISED -

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DEPARTMENT OF TRANSPORTATION

MISC. ELECTRICAL DETAILS			
SHEET A			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BE-702			CONTRACT NO. 62W87	
ILLINOIS FED. AID PROJECT				

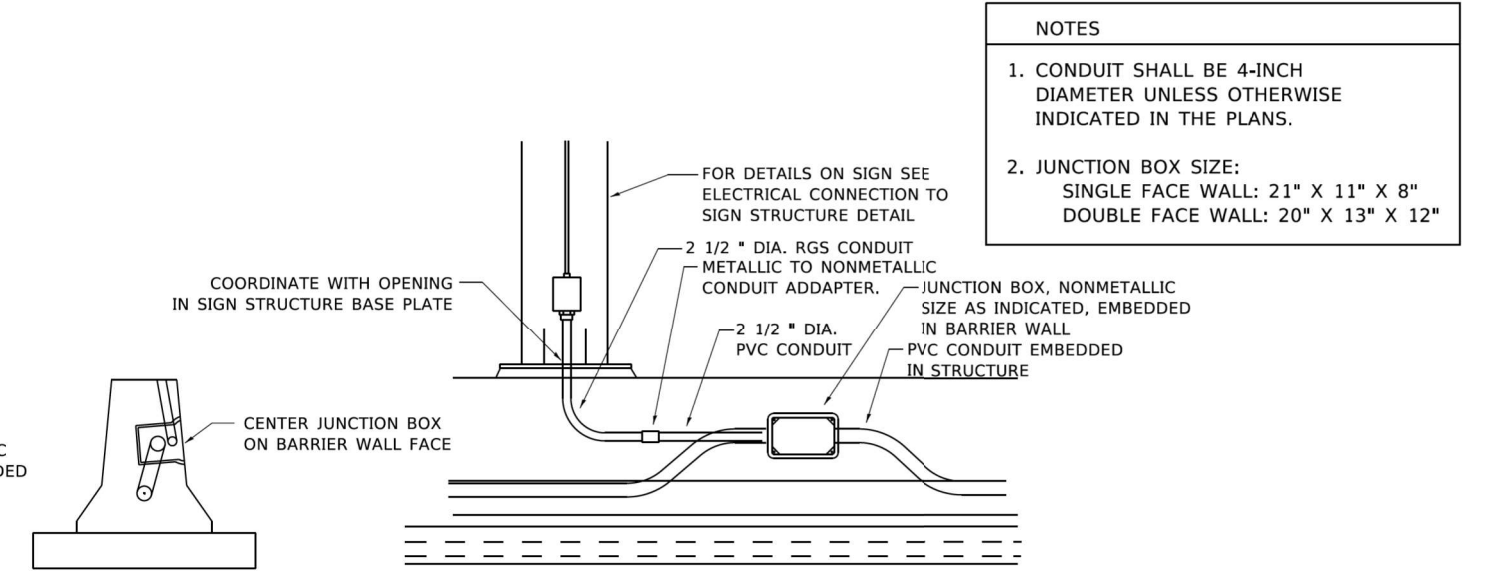


- NOTES**
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
 2. JUNCTION BOX SIZE:
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

NOTE:
FOR DETAILS ABOVE BARRIER WALL SEE UNDERPASS DETAILS.

ED - BWD

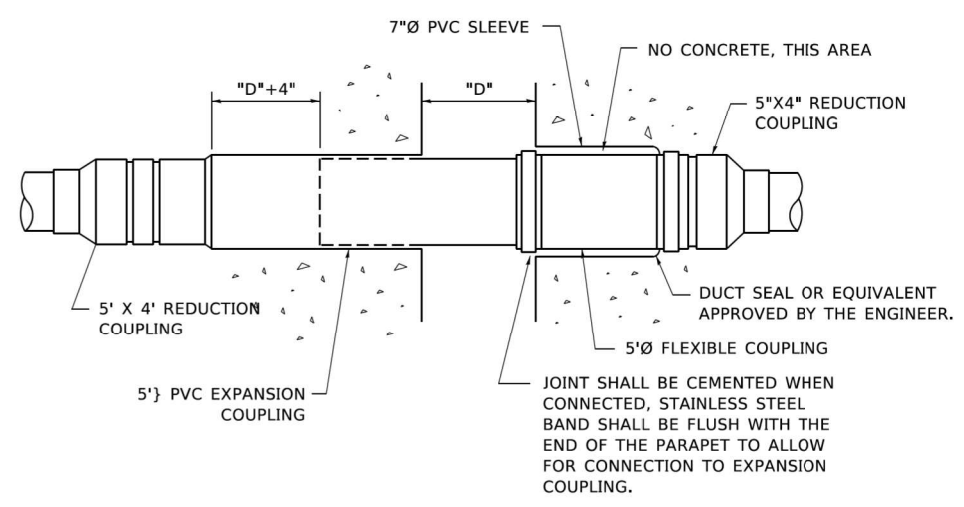
ELECTRIC CONNECTION TO UNDERPASS LIGHTING



- NOTES**
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
 2. JUNCTION BOX SIZE:
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

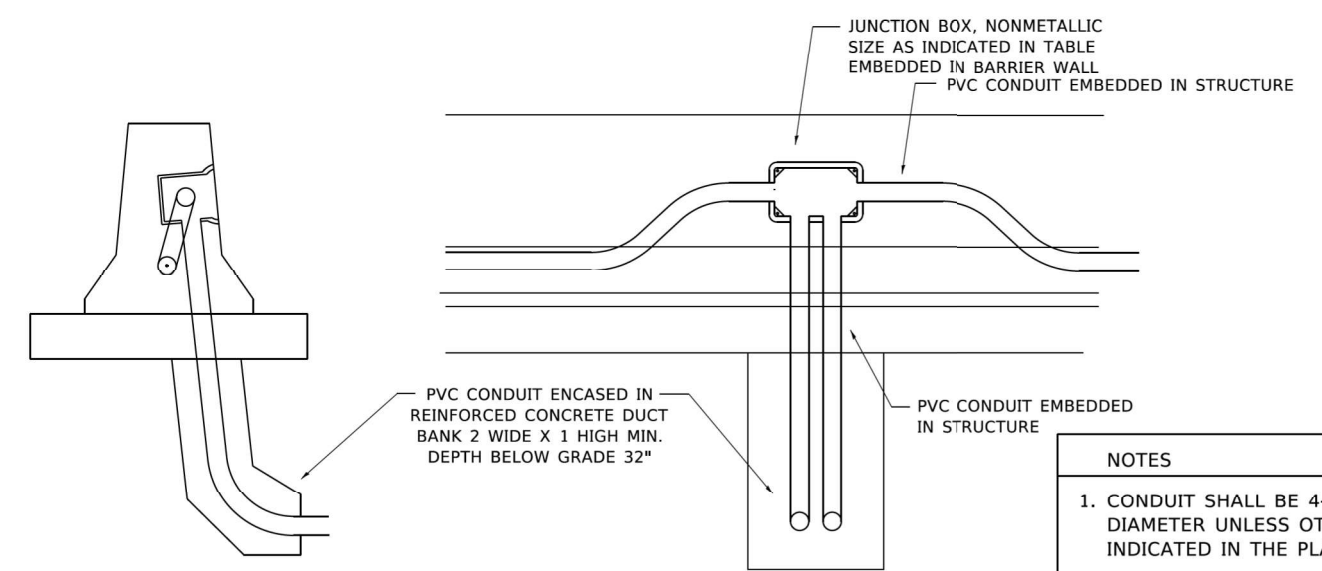
ED - SGN

JUNCTION BOX EMBEDDED IN BARRIER WALL FOR SIGN LIGHTING



INSTALLATION OF CONDUIT IN BRIDGE PARAPET EXPANSION JOINT

(N.T.S.)



- NOTES**
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
 2. JUNCTION BOX SIZE:
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

ED - BW

JUNCTION BOX EMBEDDED IN BARRIER WALL

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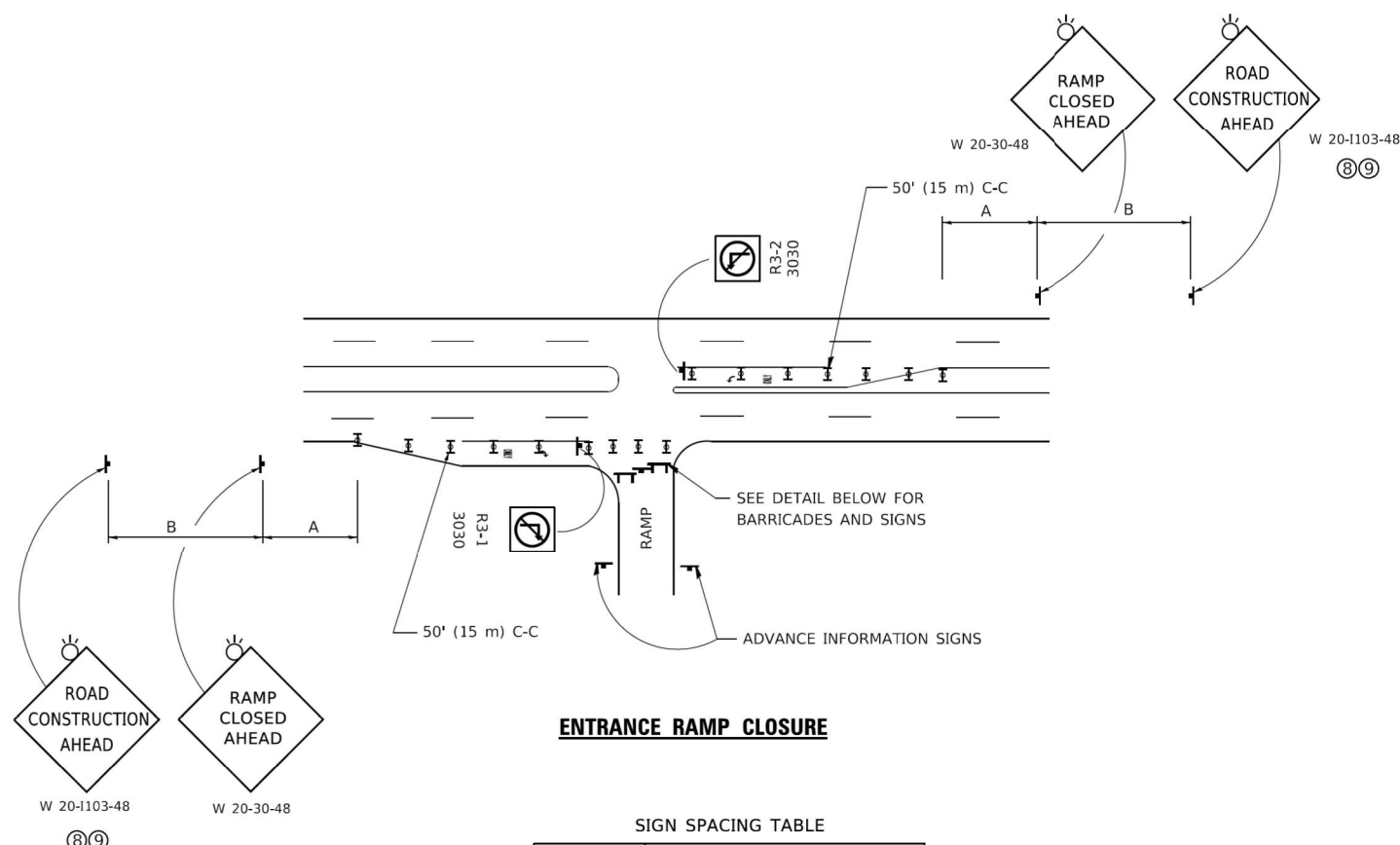
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MISCELLANEOUS ELECTRICAL DETAILS, SHEET B

J BOX EMBEDDED IN BARRIER WALL - INSTALLATION OF CONDUIT IN BRIDGE PARAPET EXPANSION JOINT - ELECTRIC CONNECTION TO UNDERPASS LIGHTING

SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BE-703			CONTRACT NO. 62W87	
ILLINOIS FED. AID PROJECT				

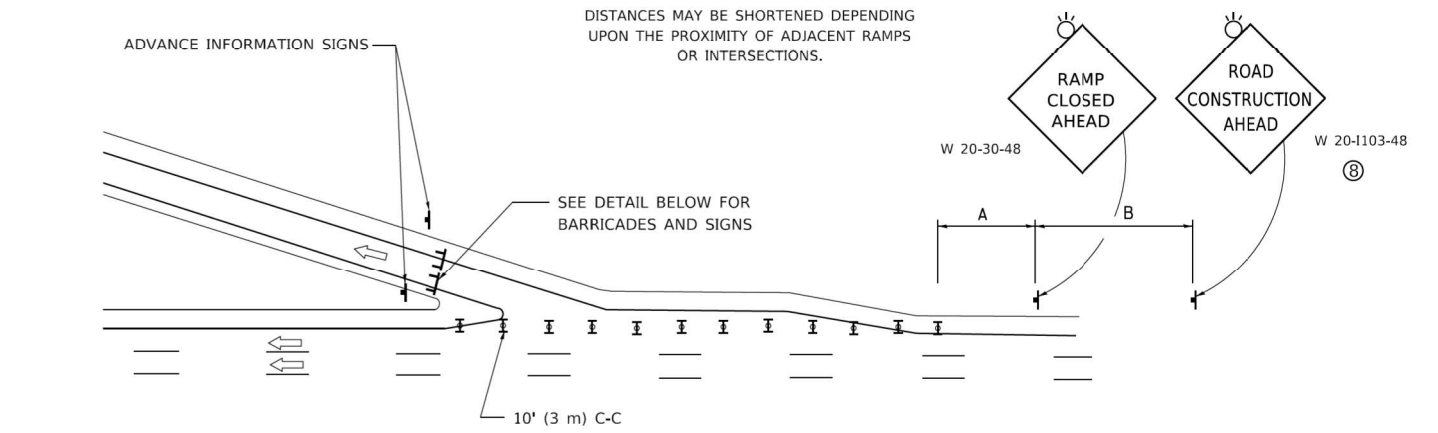


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

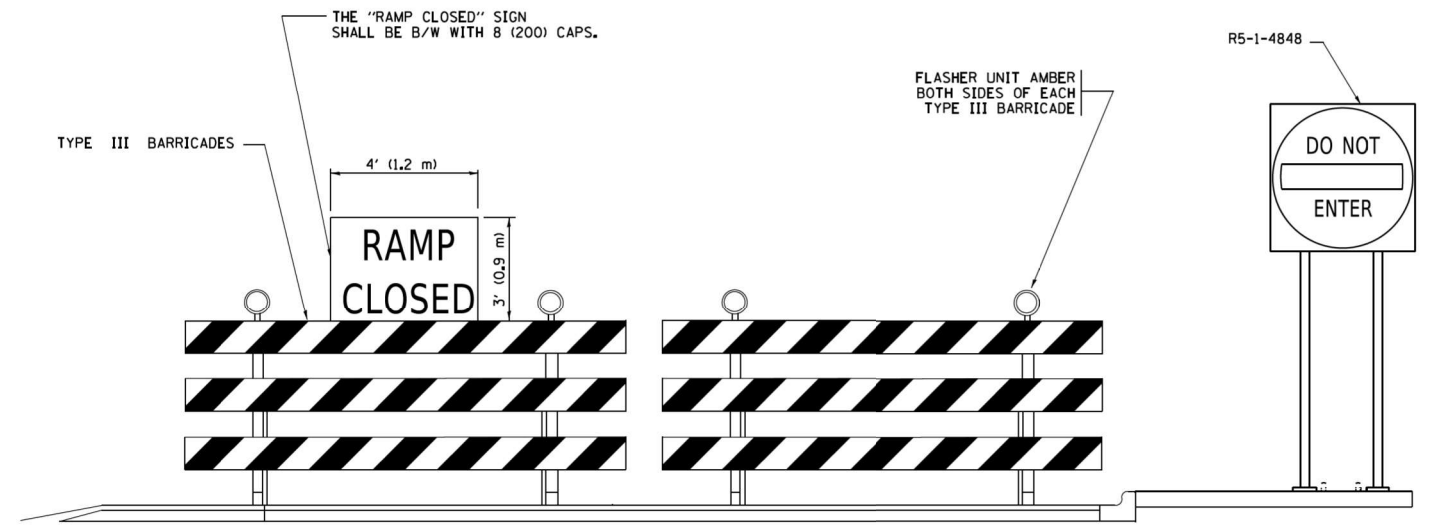
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

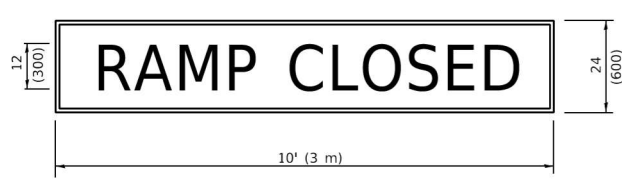
SYMBOLS

- ▬ TYPE II BARRICADE OR DRUM
- ▬ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

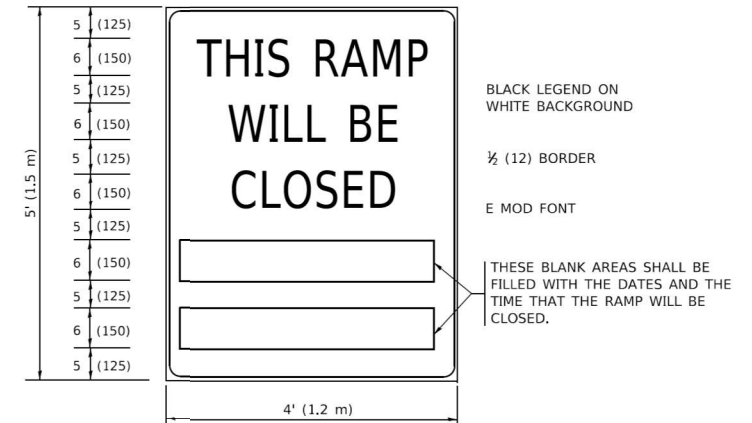
RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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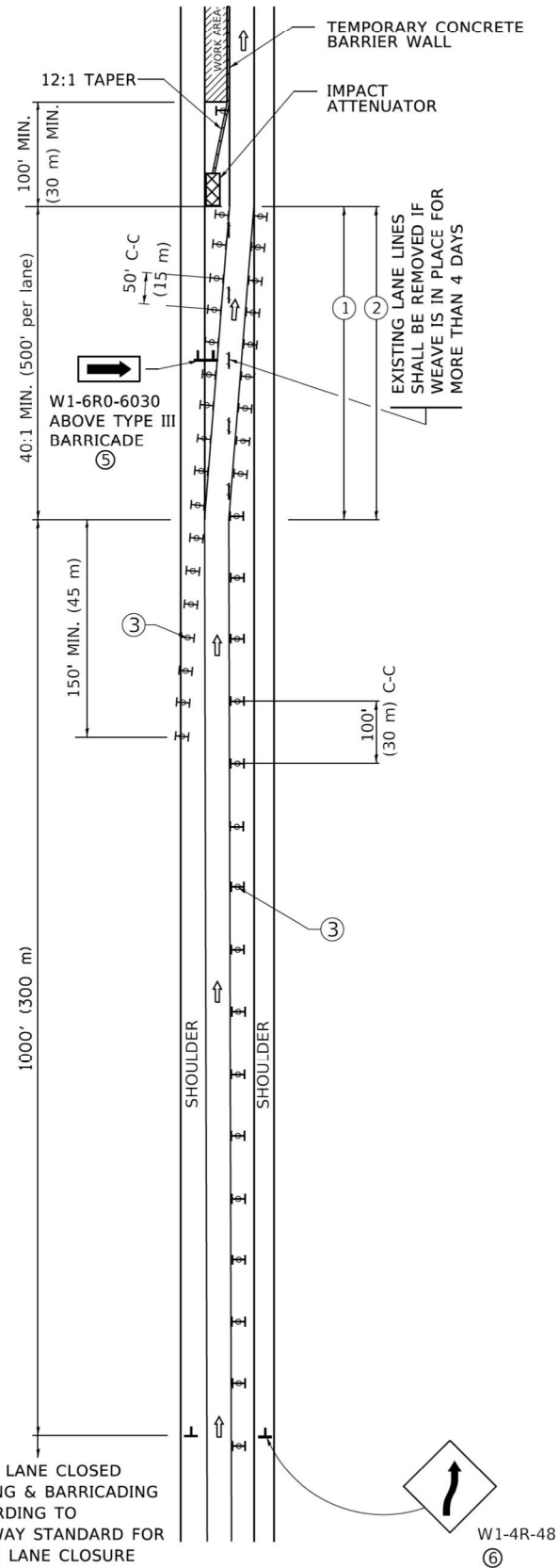
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP
CLOSURE DETAILS**

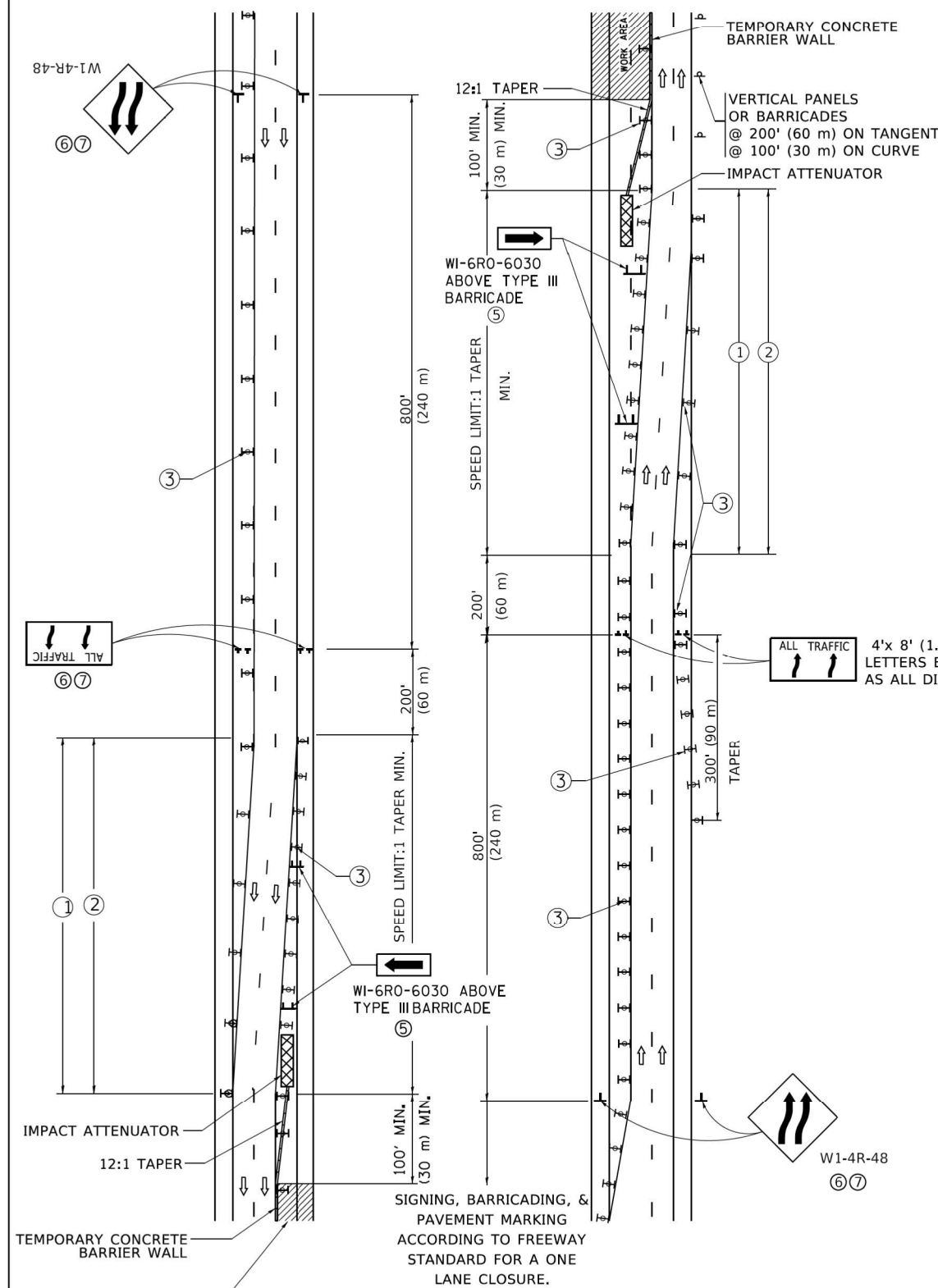
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94	(42-B-11-1) BR, BJR 24	COOK	761	743
TC-08			CONTRACT NO. 62W87	
		ILLINOIS	FED. AID PROJECT	

SINGLE LANE WEAVE

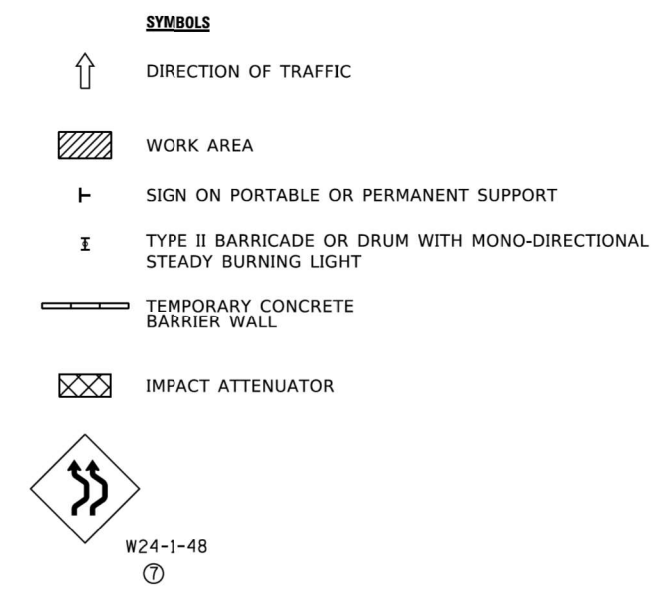


MULTI-LANE WEAVE



GENERAL NOTES:

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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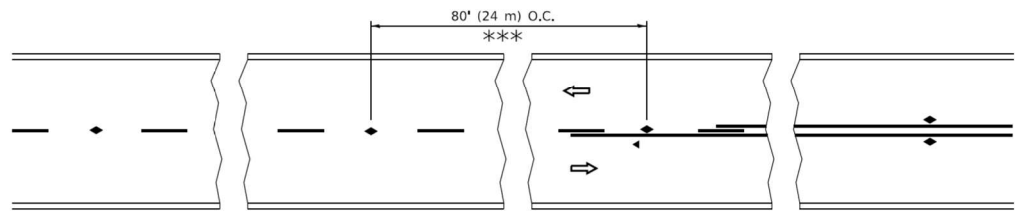
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PLOT DATE = 3/4/2019	DATE - 02-87	REVISED - M.D. 06-13

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL DETAILS FOR
FREEWAY SINGLE & MULTI-LANE WEAVE**

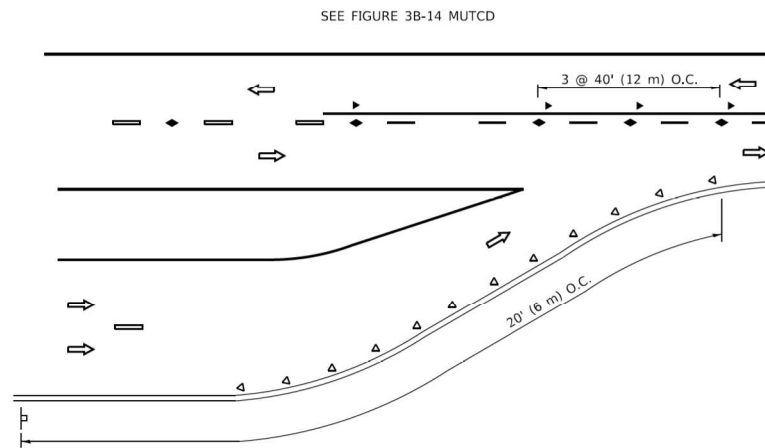
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ILLINOIS FED. AID PROJECT				

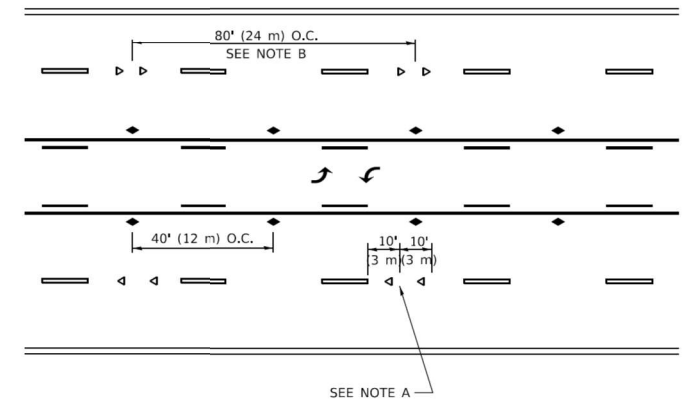


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

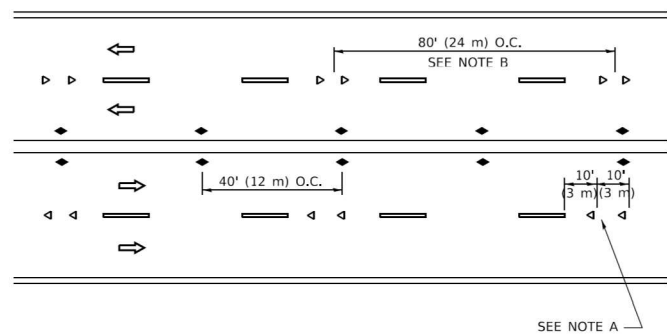
TWO-LANE/TWO-WAY



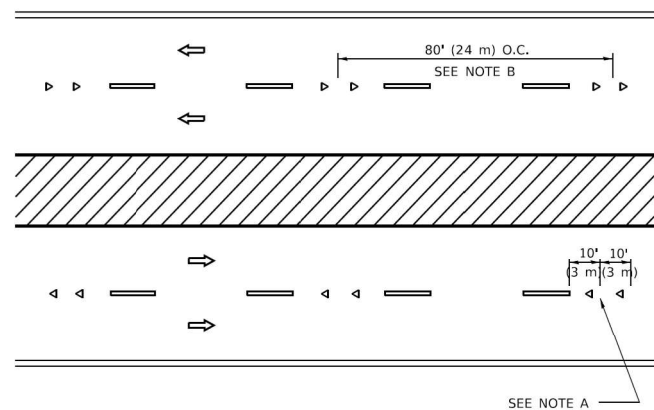
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

SYMBOLS

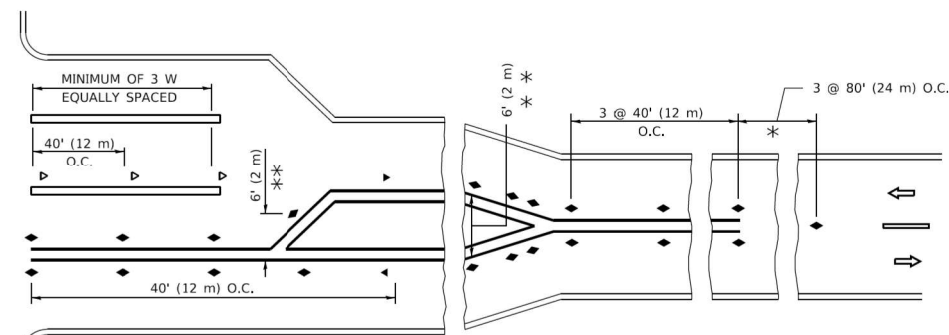
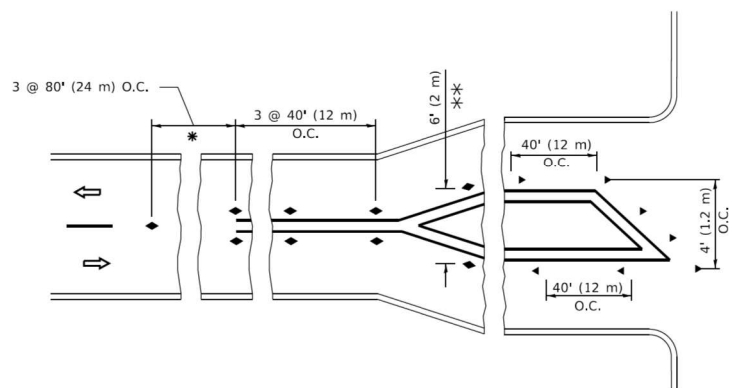
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

TURN LANES

All dimensions are in inches (millimeters) unless otherwise shown.

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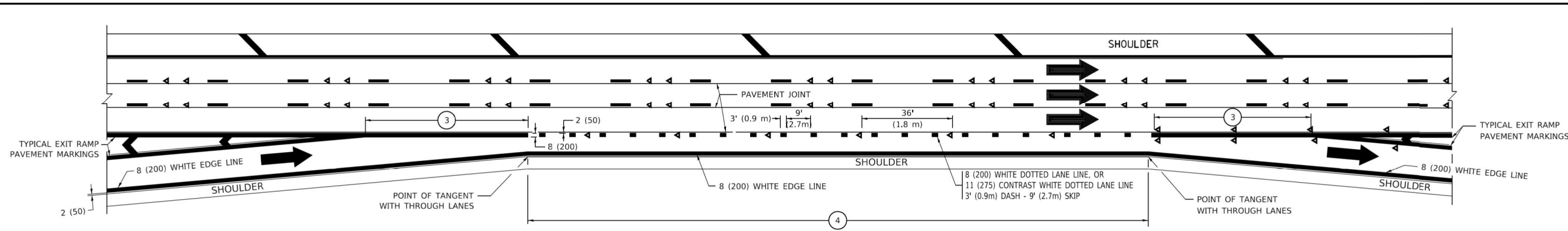
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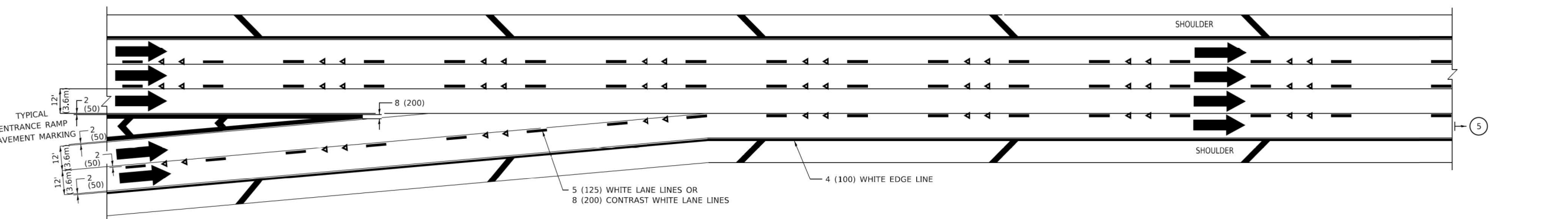
**TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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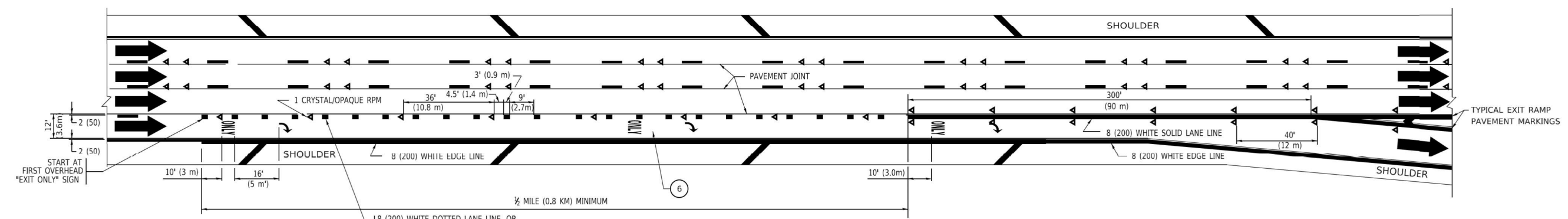
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TC-11		CONTRACT NO. 62W87		
		ILLINOIS FED. AID PROJECT		



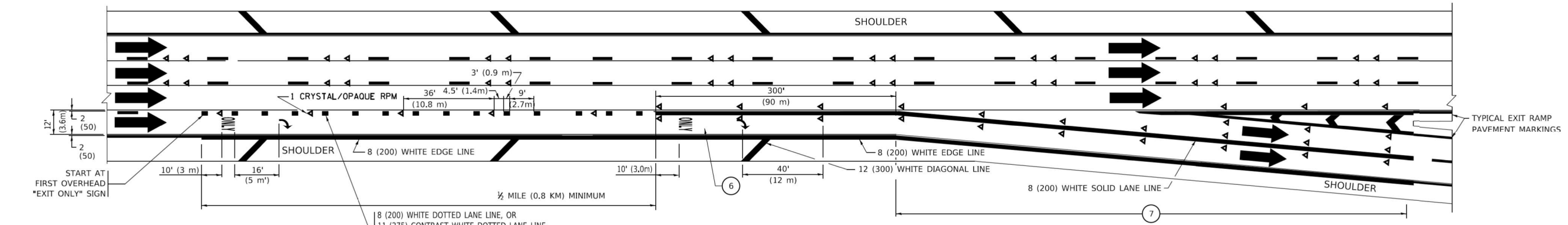
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

- NOTES:**
- 3 OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - 4 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - 5 FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - 6 ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
 - 7 CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

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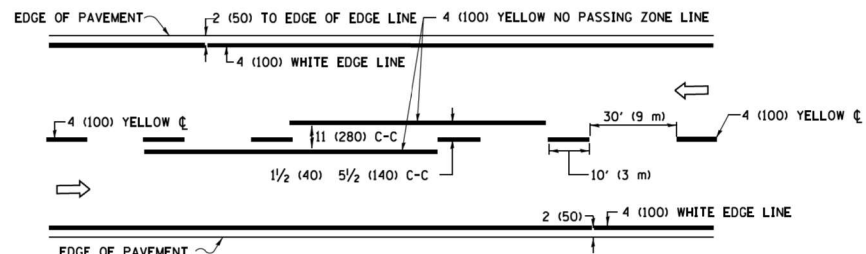
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DEPARTMENT OF TRANSPORTATION

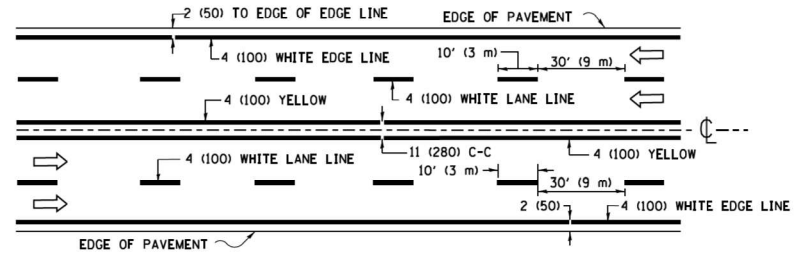
MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS

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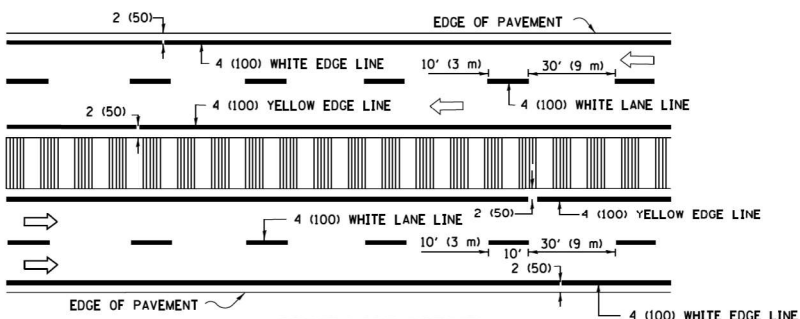
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94	(42-B-11-1) BR. BJR 24	COOK	761	747
TC-12		CONTRACT NO. 62W87		
		ILLINOIS FED. AID PROJECT		



2-LANE ROADWAY

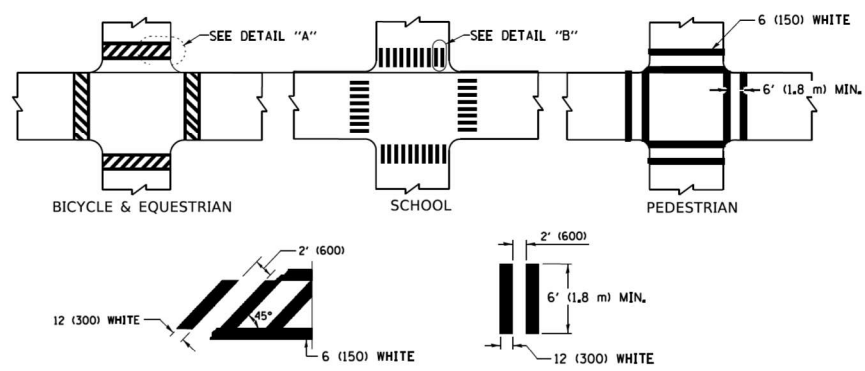


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

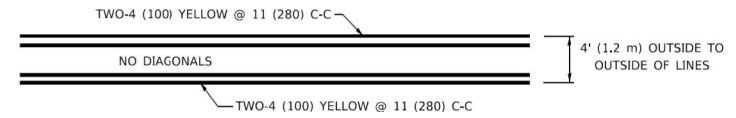


DETAIL "A"

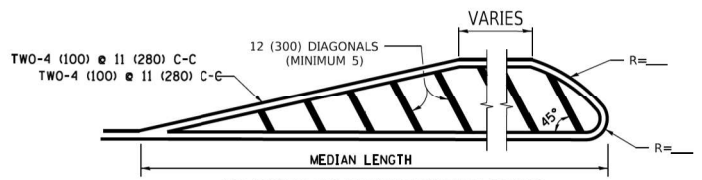
DETAIL "B"

TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

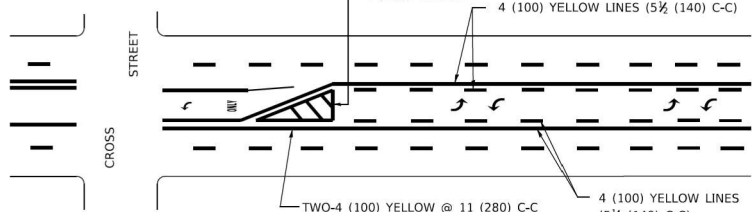


4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE

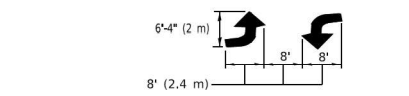
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

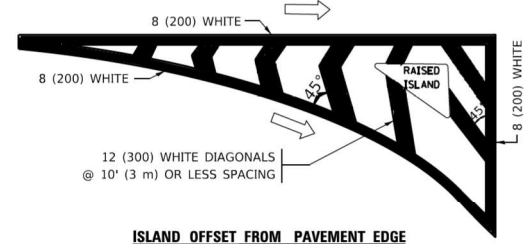
A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



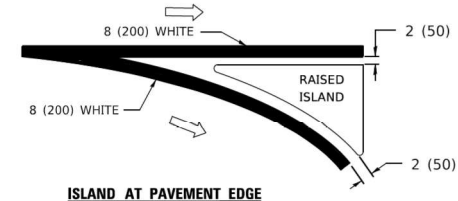
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

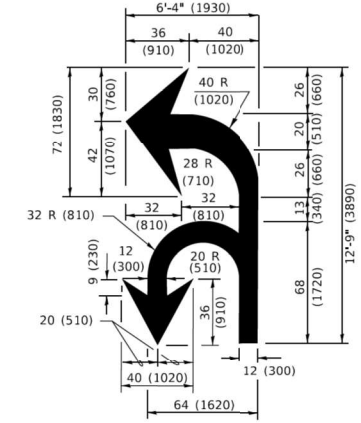


ISLAND OFFSET FROM PAVEMENT EDGE

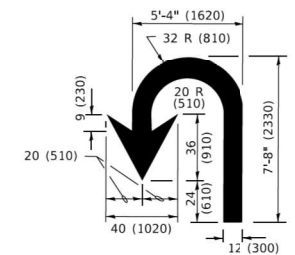


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH, 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: *R*=3.6 SQ. FT. (0.33 m ²) EACH *X*=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

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PLOT SCALE = 50.0000" / in.	CHECKED -	REVISED - C. JUCIUS 07-01-13
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		REVISED - C. JUCIUS 04-12-16

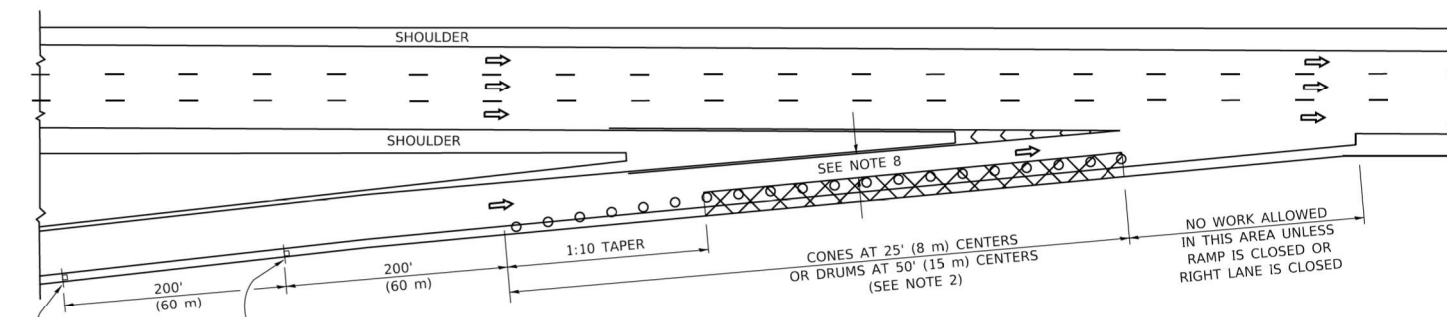
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

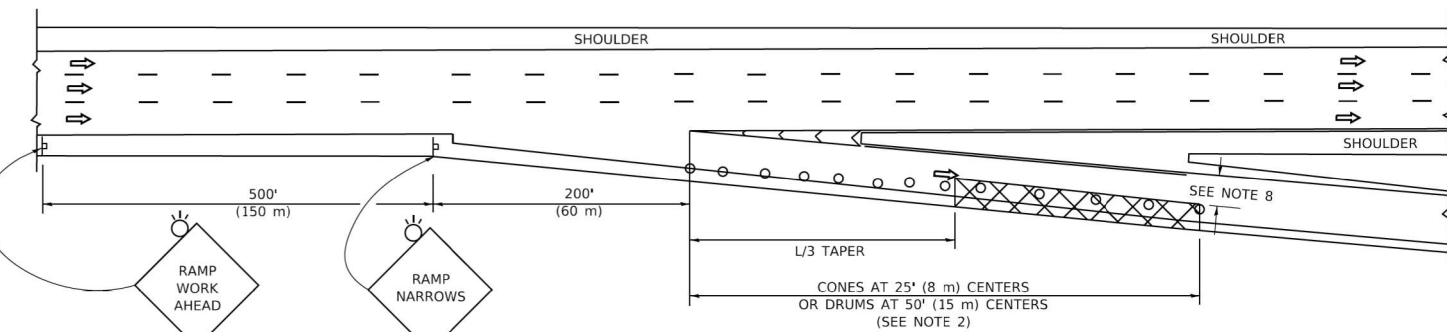
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	(42-B-11-1) BR, BJR 24	COOK	761	748
TC-13			CONTRACT NO. 62W87	
ILLINOIS FED. AID PROJECT				

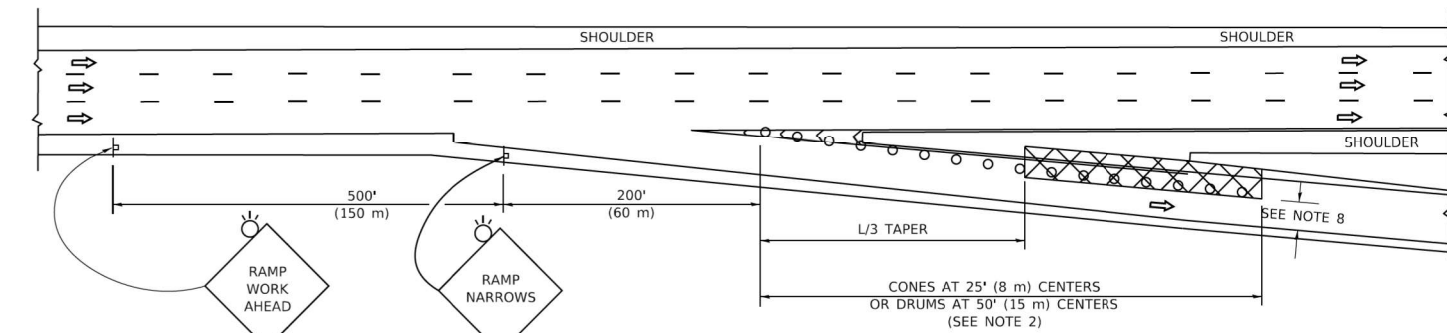
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

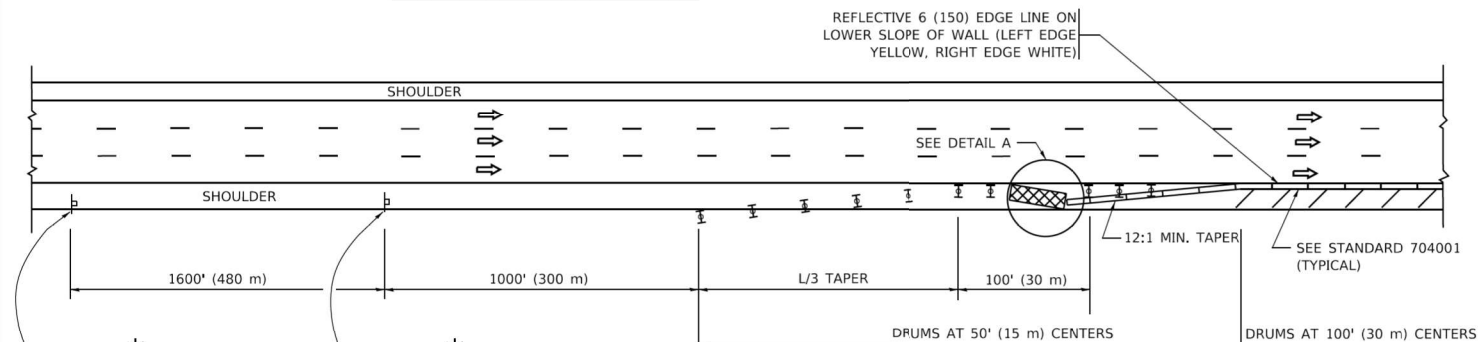
GENERAL NOTES:

1. THE "L" DISTANCE EQUALS:

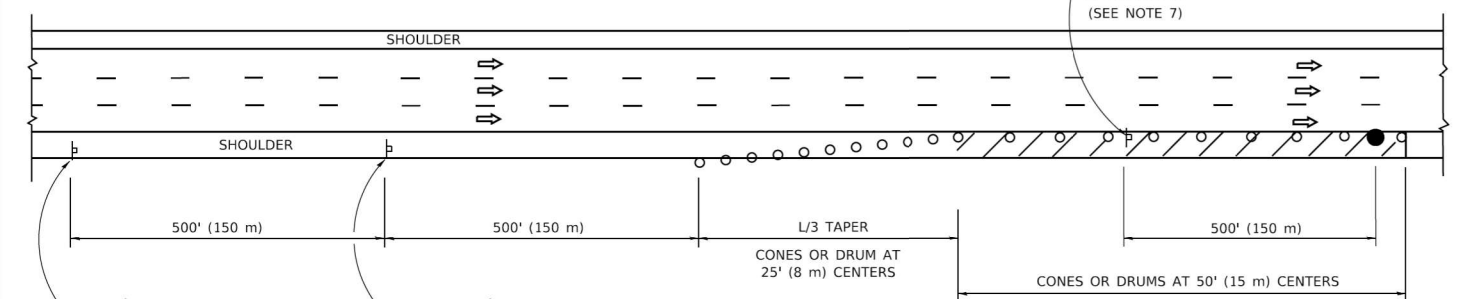
SPEED LIMIT	FORMULAS
45 mph (80 km/h)	METRIC ENGLISH
OR GREATER:	$L = 0.65(W)(S)$ $L = (W)(S)$

W = WIDTH OF OFFSET IN FEET (METERS)
 S = NORMAL POSTED SPEED MPH (KM/H)
2. TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS

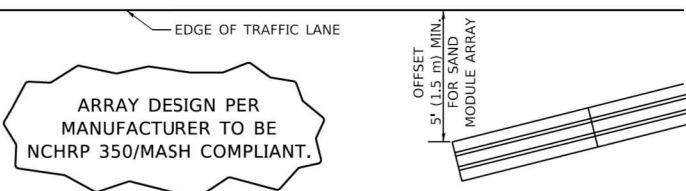


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



**DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)**

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK AVTIVITY REQUIRES FREQUENT ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
 16' MIN. WIDTH CURVE SECTION.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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USER NAME = footemj	DESIGNED -	REVISED - S.P.B. 01-07
	DRAWN - D.W.S.	REVISED - S.P.B. 12-09
PLOT SCALE = 50,0000 ' / in.	CHECKED -	REVISED - M.D. 06-13
PLOT DATE = 3/4/2019	DATE - 11-96	REVISED - M.D. 01-18

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

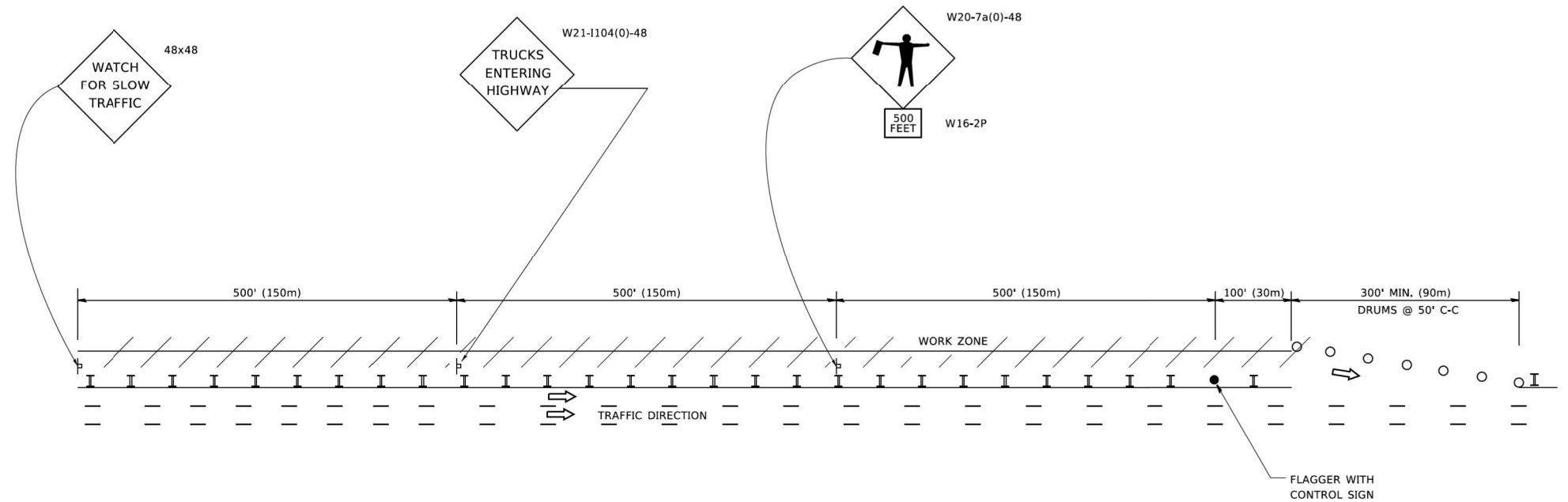
**TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

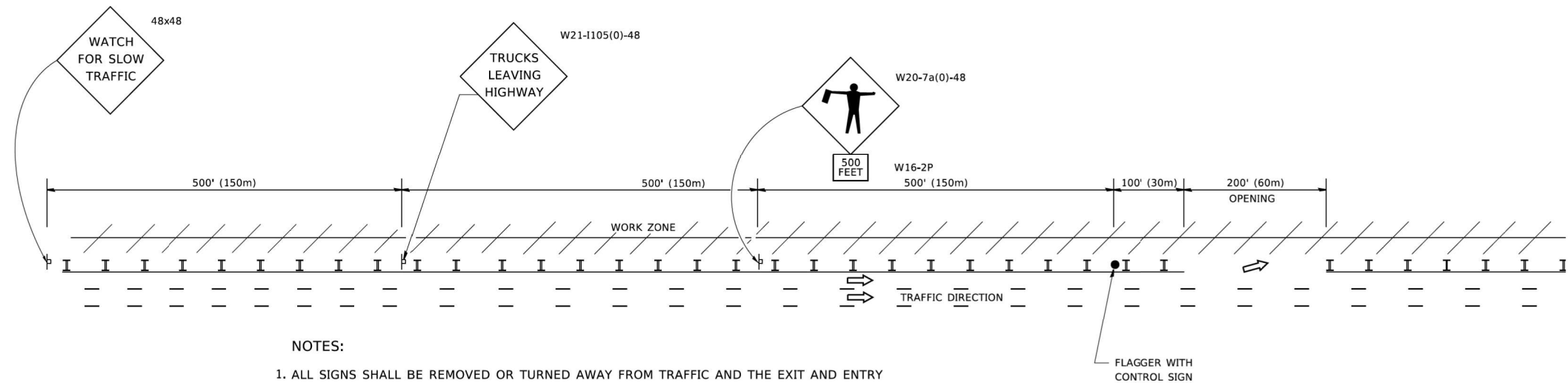
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	(42-B-11-1) BR, BJR 24	COOK	761	749
TC-17		CONTRACT NO. 62W87		
ILLINOIS FED. AID PROJECT				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMP.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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	DRAWN -	REVISED - S.P.B. 01-07
PLOT SCALE = 50,0000 ' / in.	CHECKED -	REVISED - S.P.B. 12-09
PLOT DATE = 3/4/2019	DATE -	REVISED - M.D.06-13

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FREEWAY /EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS
AT WORK ZONE OPENINGS ON FREEWAYS /EXPRESSWAYS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	(42-B-11-1) BR. BJR 24	COOK	761	750
TC-18			CONTRACT NO. 62W87	
ILLINOIS FED. AID PROJECT				

ROUTE MARKERS

FOR U.S. ROUTES
M1-40-2424

FOR ILLINOIS ROUTES
M1-50-2424

R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

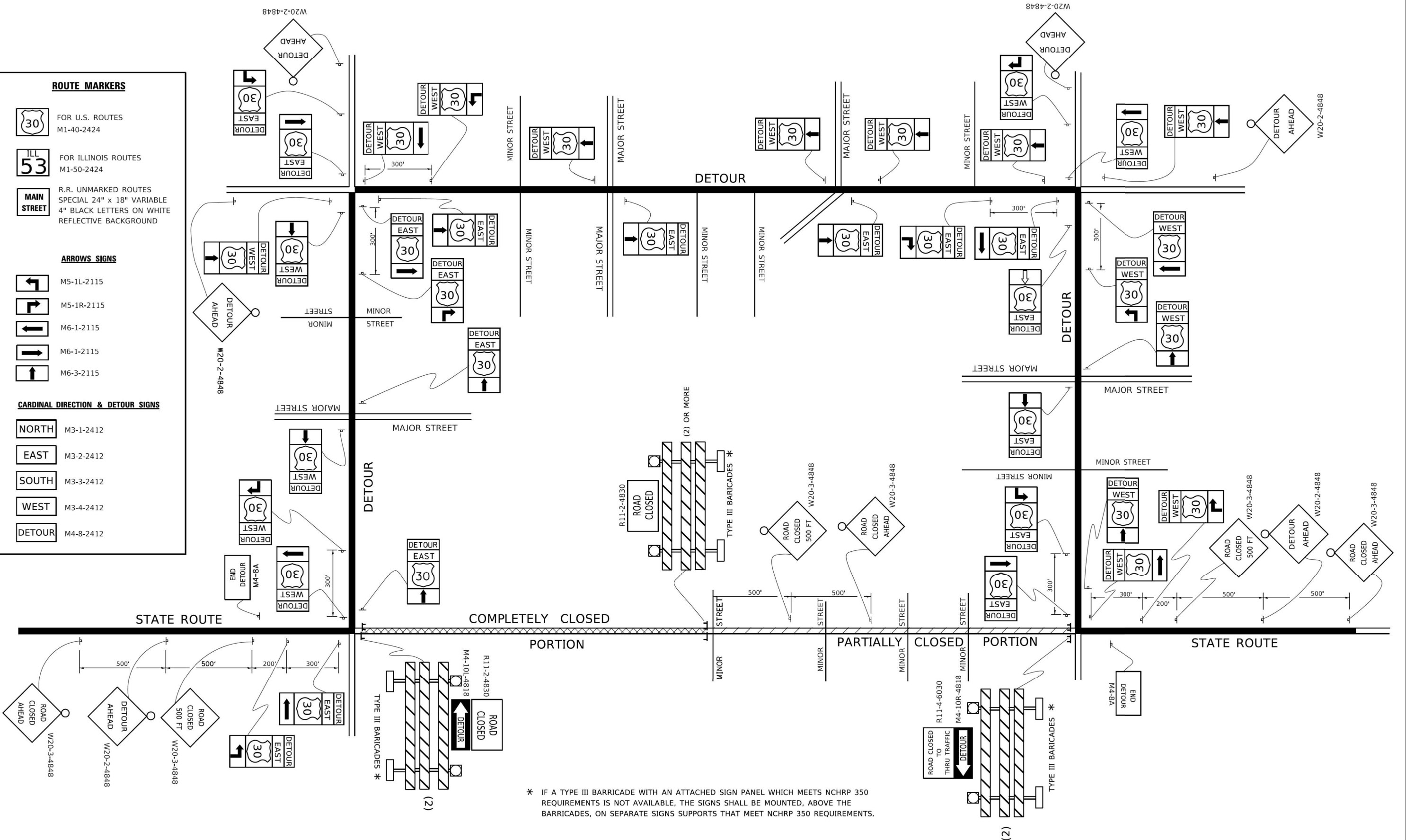
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

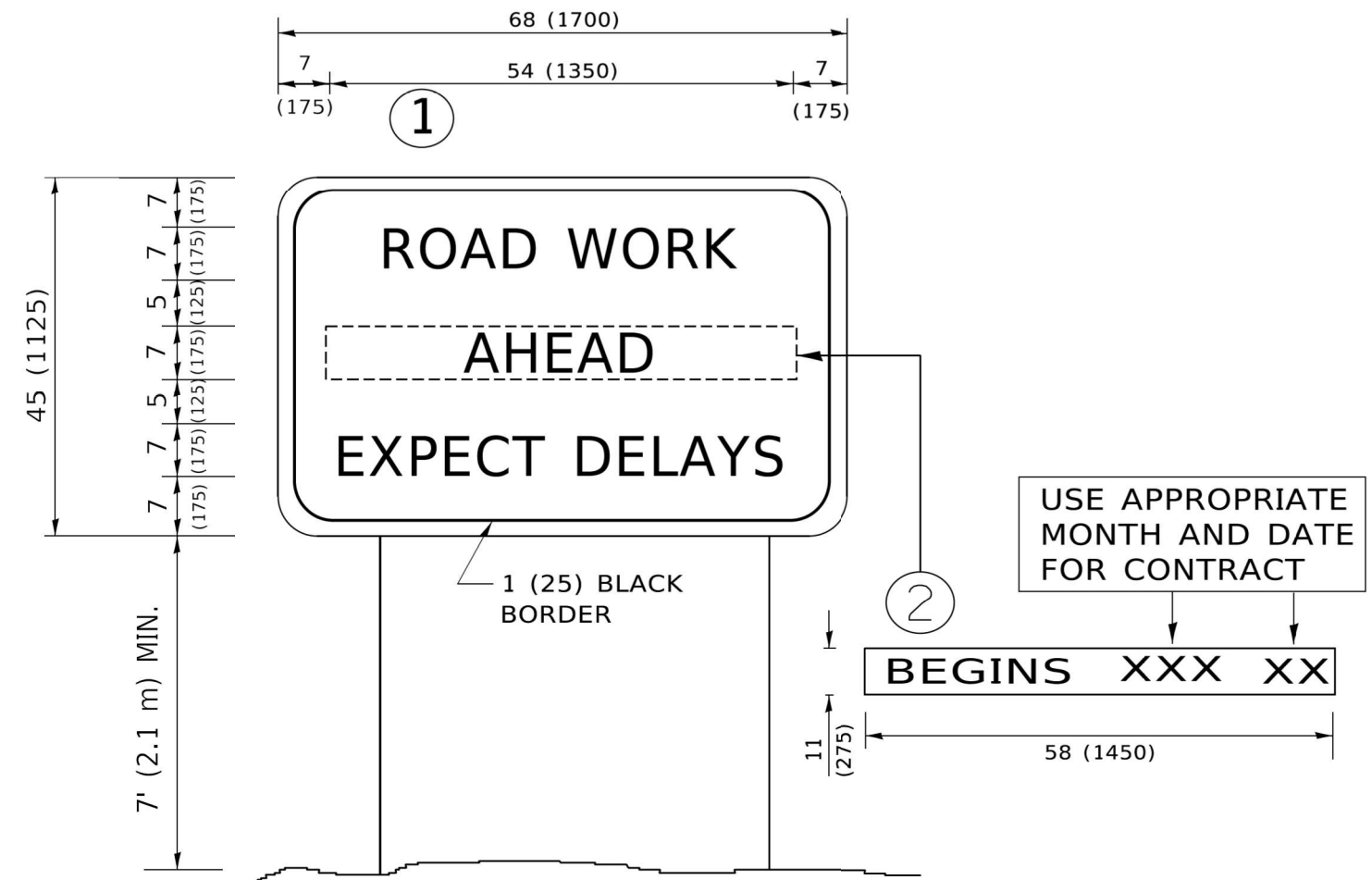
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	DRAWN -	REVISED - R. BORO 09-14-09
PLOT SCALE = 50,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING FOR CLOSING STATE HIGHWAYS			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	(42-B-11-1) BR. BJR 24	COOK	761	751
TC-21		CONTRACT NO. 62W87		
ILLINOIS FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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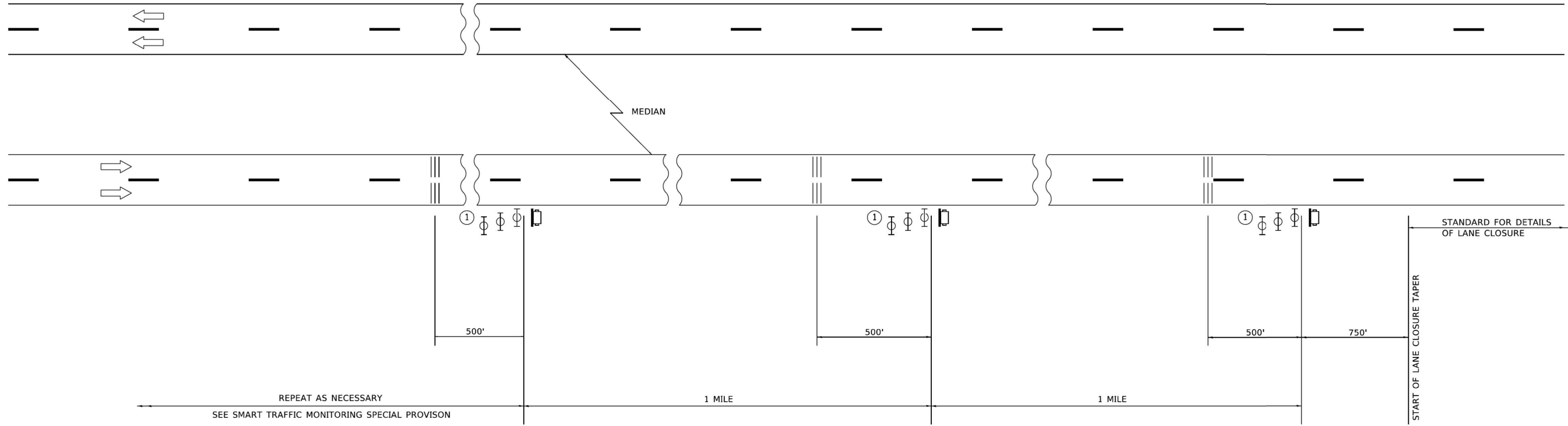
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PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	(42-B-11-1) BR. BJR 24	COOK	761	752
TC-22			CONTRACT NO. 62W87	
ILLINOIS FED. AID PROJECT				



REPEAT AS NECESSARY
SEE SMART TRAFFIC MONITORING SPECIAL PROVISION




1 MILE

1 MILE

STANDARD FOR DETAILS
OF LANE CLOSURE

START OF LANE CLOSURE TAPER

SYMBOLS

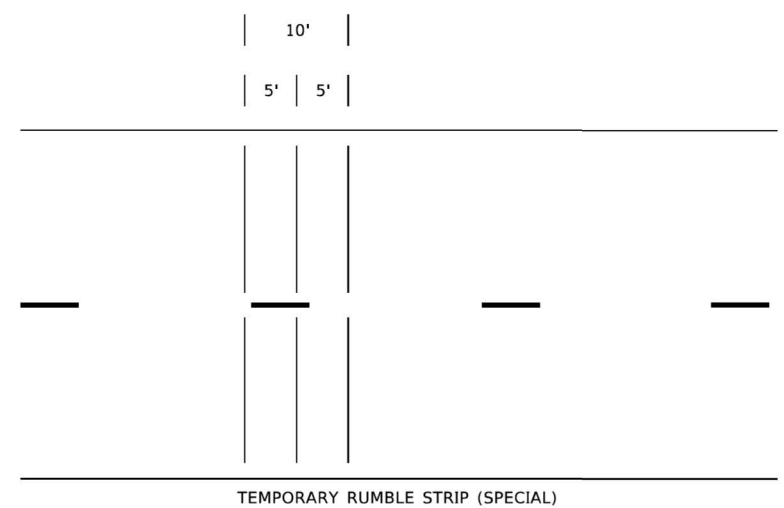
-  PORTABLE CHANGEABLE MESSAGE SIGN
-  TEMPORARY RUMBLE STRIP (SPECIAL)
-  TYPE II BARRICADES, DRUMS,
OR VERTICAL BARRICADES WITH
MONODIRECTIONAL FLASHING
LIGHT.

① THREE TYPE II BARRICADES, DRUMS,
OR VERTICAL BARRICADES AT 25' (8 m)
CENTERS.

GENERAL NOTE:

THIS DETAIL IS TO BE USED IN CONJUNCTION WITH
SMART TRAFFIC MONITORING SYSTEM AND TEMPORARY
RUMBLE STRIP (SPECIAL) SPECIAL PROVISIONS.

TRAFFIC CONTROL SHOWN IN THIS DETAIL IS TO BE
PROVIDED IN ADDITION TO ANY TEMPORARY TRAFFIC
CONTROL SHOWN ON STATE STANDARDS, DISTRICT
DETAILS, AND MAINTENANCE OF TRAFFIC PLANS.



TEMPORARY RUMBLE STRIP (SPECIAL)

MODEL: Default
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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/18/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SMART TRAFFIC MONITORING SYSTEM
TYPICAL LAYOUT**

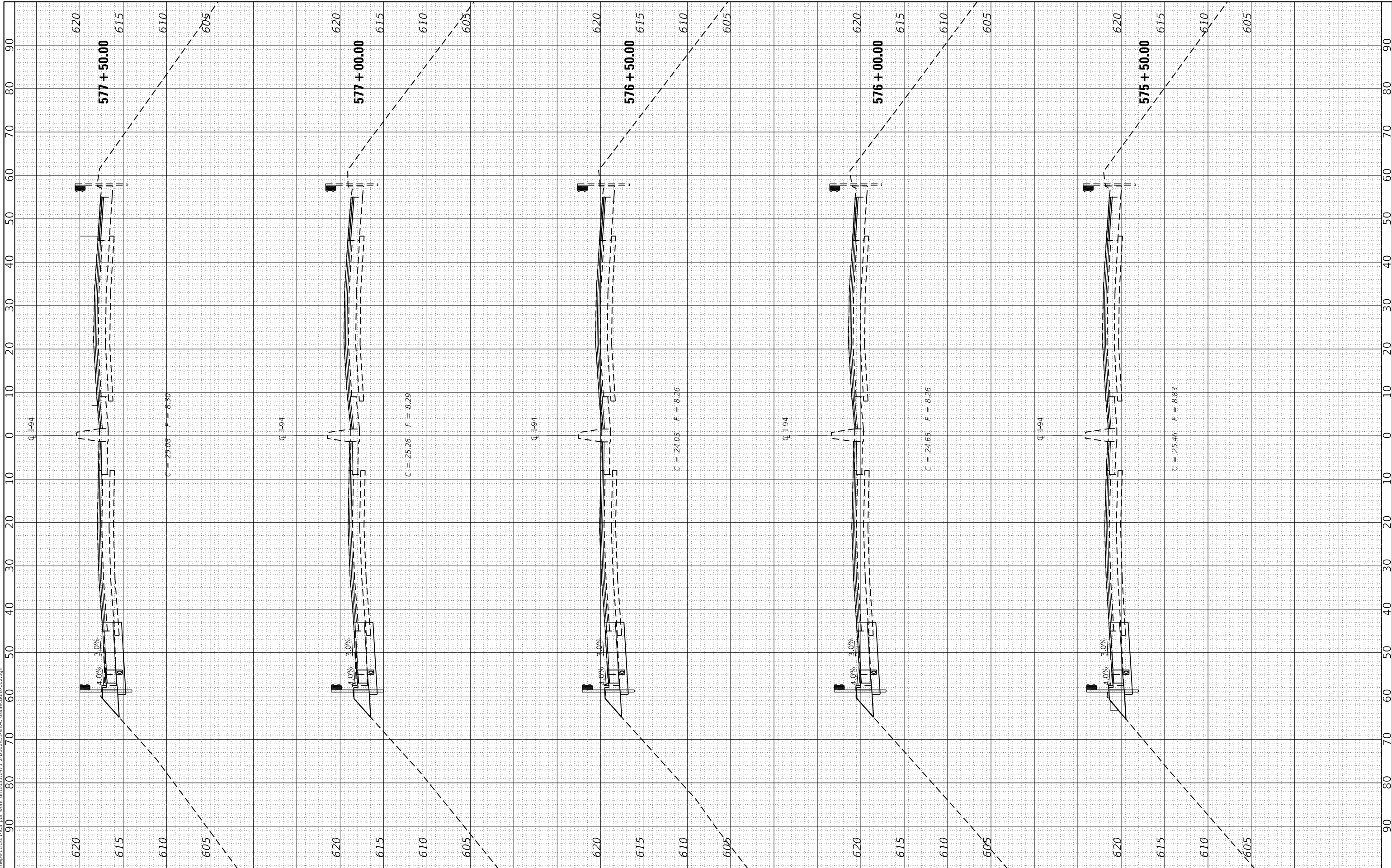
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	(42-B-11-1) BR, BJR 24	COOK	761	753
TC-33		CONTRACT NO. 62W87		
ILLINOIS FED. AID PROJECT				

FINL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
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AREAS CHECKED	TEMPLATE		
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	CHECKED		

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 PLOT DATE = 1/24/2025

DESIGNED - ADS
 DRAWN - ADS
 CHECKED - AMI
 DATE - 12/9/2024

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WB US-6 TO WB I-94

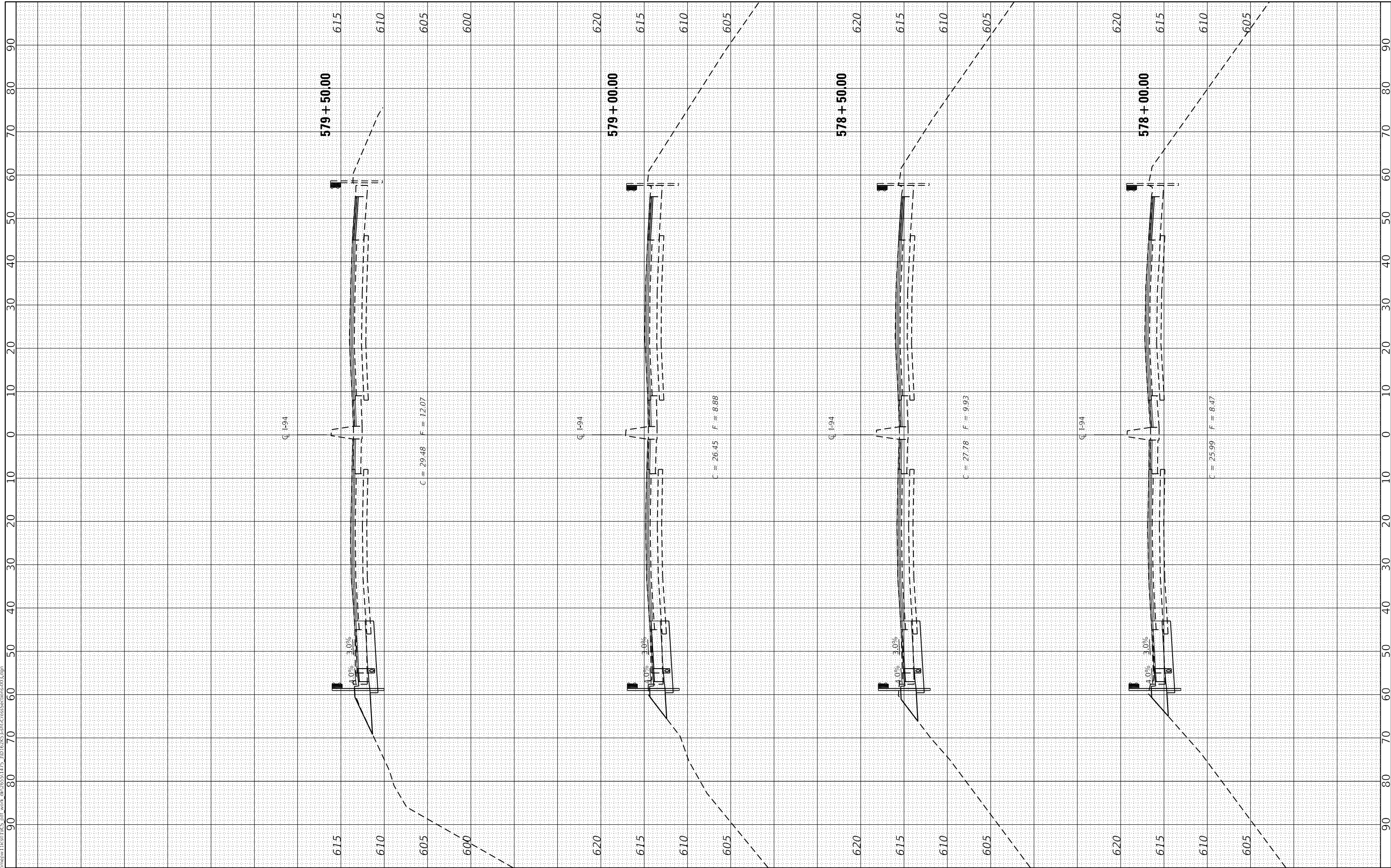
SCALE: SHEET 2 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	(42-B-11-1) BR. BJR 24	COOK	761	755
CONTRACT NO. 62W87				
ILLINOIS		FED. AID PROJECT		

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	CHECKED	

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	CHECKED	

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CHECKED	- AMI
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PLOT SCALE	= 20,0000 ' / in.
PLOT DATE	= 1/24/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WB US-6 TO WB I-94

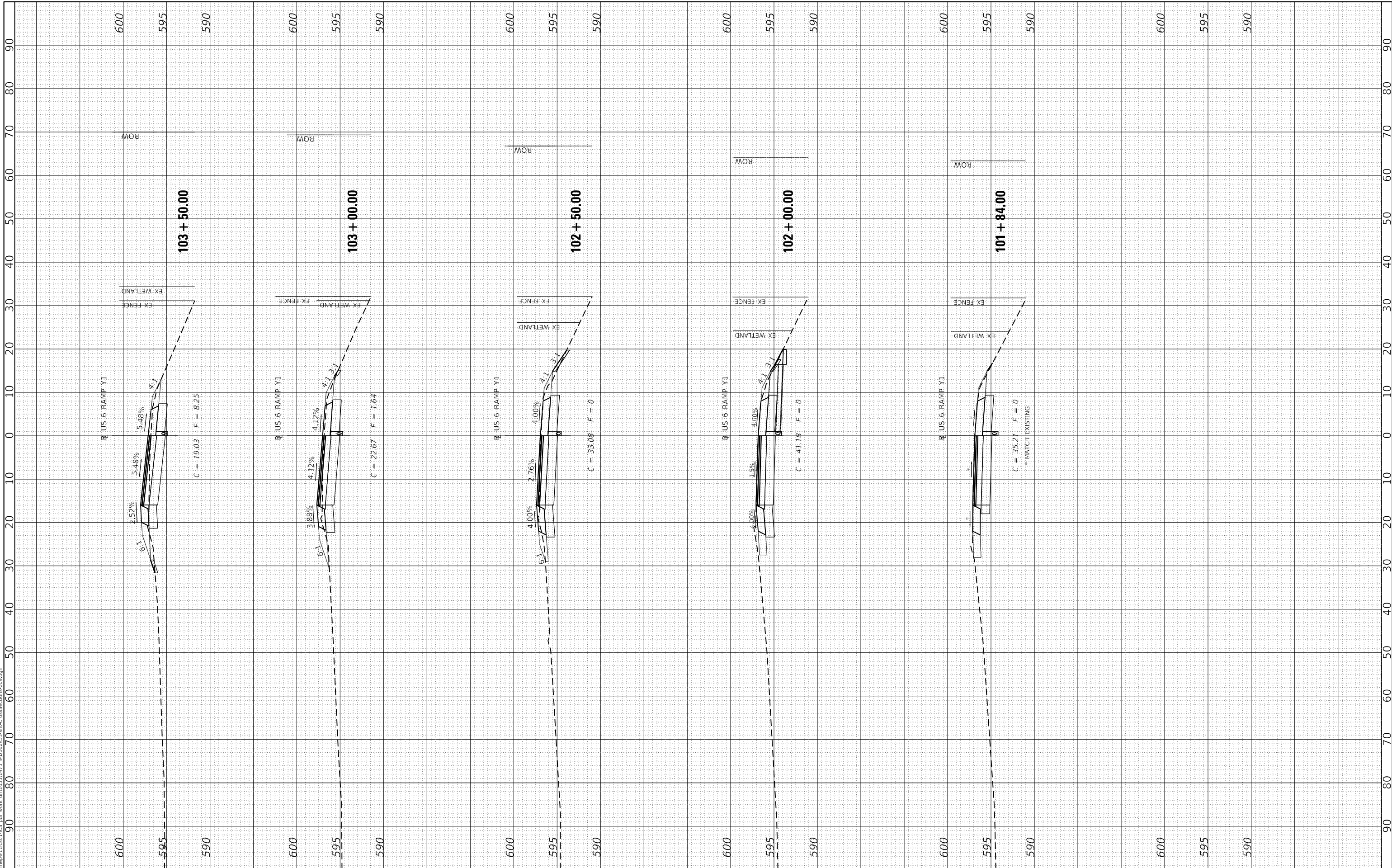
SCALE: SHEET 3 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	(42-B-11-1) BR. BJR 24	COOK	761	756
CONTRACT NO. 62W87				
ILLINOIS FED. AID PROJECT				

FINL	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		
	AREAS CHECKED		

ORIGINAL	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		
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DATE	- 12/9/2024
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PLOT DATE	= 1/24/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 WB US-6 TO WB I-94**

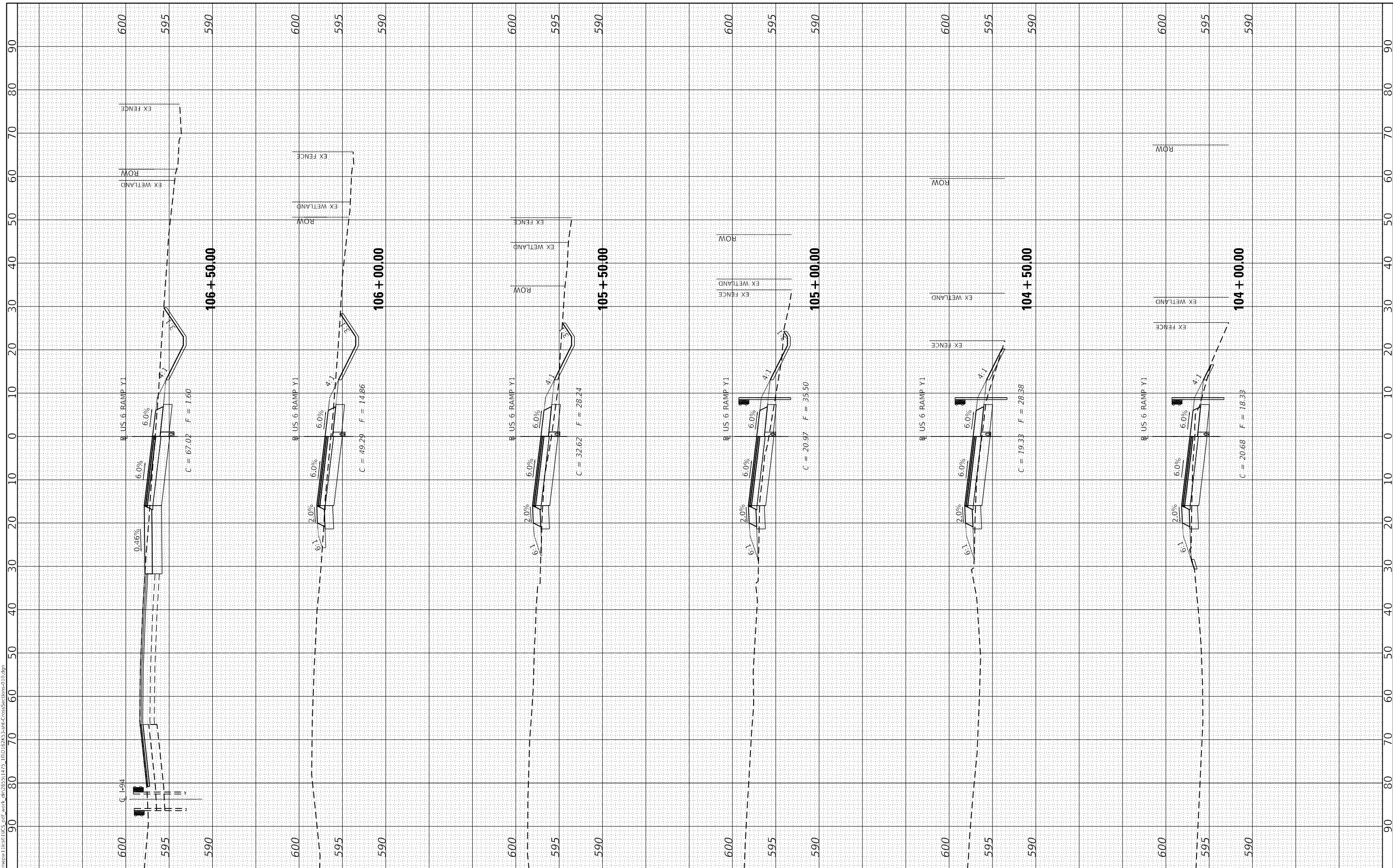
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	(42-B-11-1) BR. BJR 24	COOK	761	757
CONTRACT NO. 62W87				
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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PLOT DATE	= 1/24/2025

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REVISED	-
REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

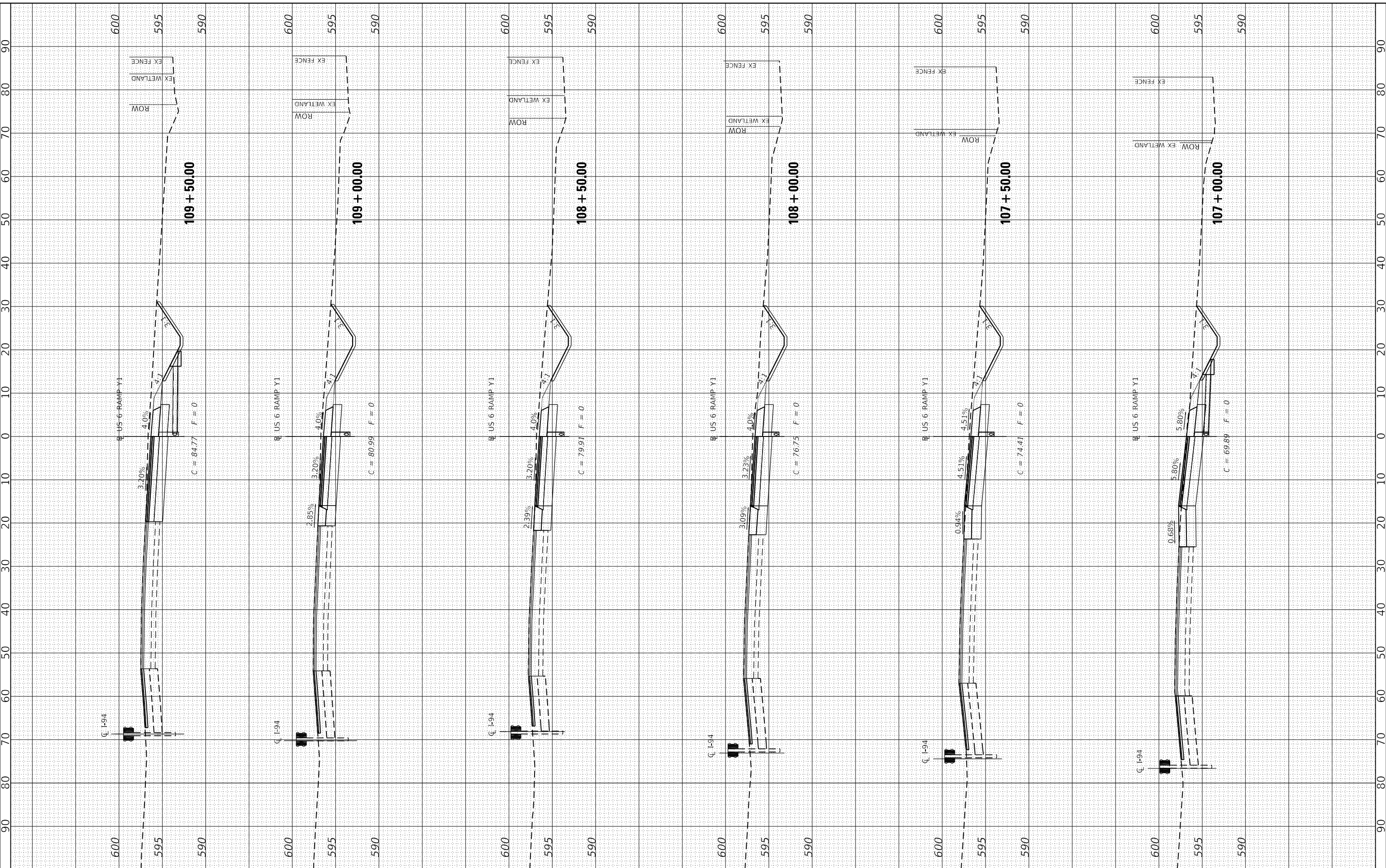
CROSS SECTIONS WB US-6 TO WB I-94			
SCALE:	SHEET 5	OF 8 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	(42-B-11-1) BR. BJR 24	COOK	761	758
CONTRACT NO. 62W87				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
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	TEMPLATE		
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PLOT DATE	= 1/24/2025

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REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET 6	OF 8	SHEETS	STA.	TO STA.
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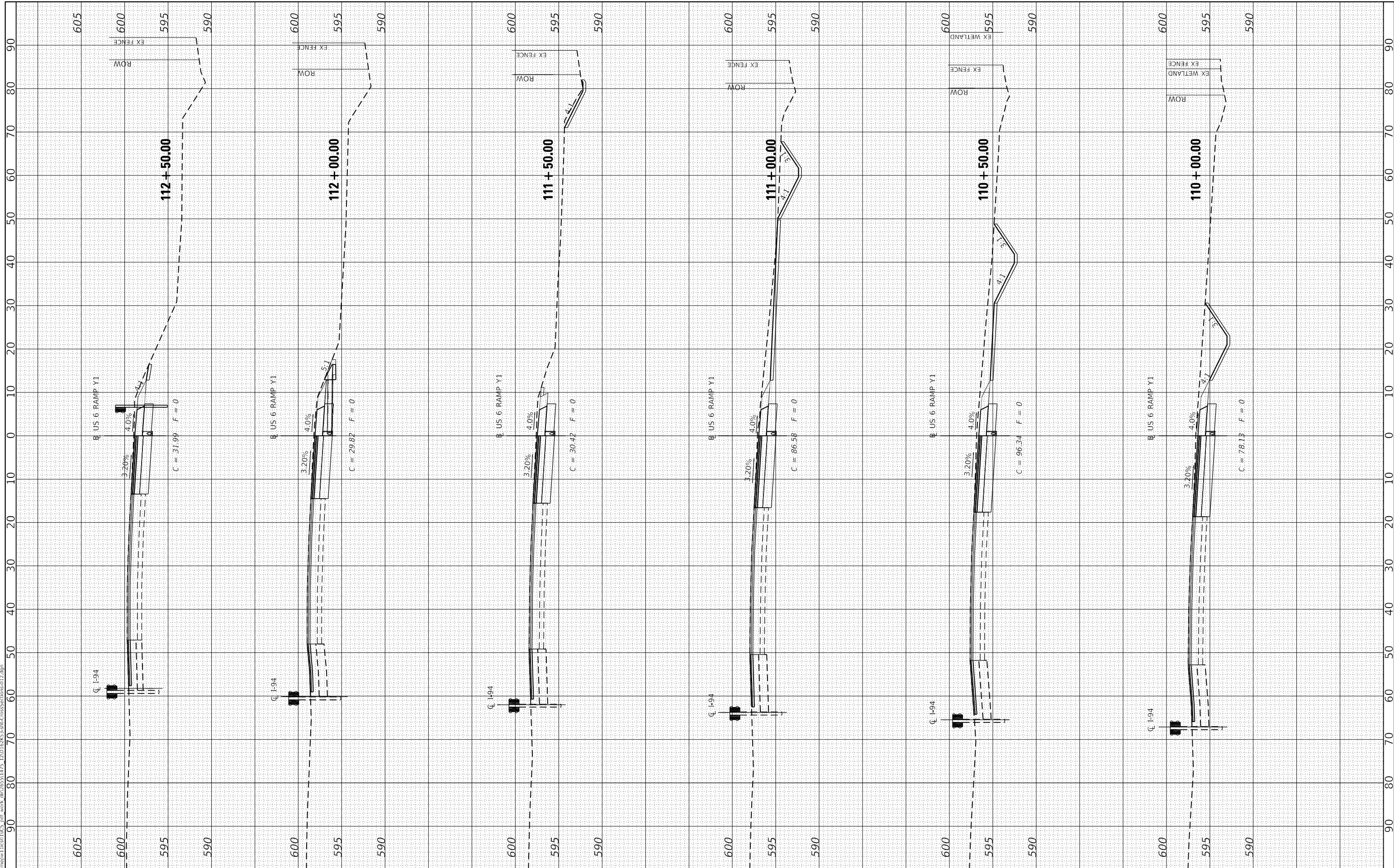
CROSS SECTIONS
 WB US-6 TO WB I-94

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	(42-B-11-1) BR. BJR 24	COOK	761	759
CONTRACT NO. 62W87				
ILLINOIS		FED. AID PROJECT		

FINL	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

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CHECKED	- AMI
DATE	- 12/9/2024
PLOT SCALE	= 20,000' / in.
PLOT DATE	= 1/24/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 WB US-6 TO WB I-94**

SCALE: SHEET 7 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	(42-B-11-1) BR. BJR 24	COOK	761	760
CONTRACT NO. 62W87				
ILLINOIS FED. AID PROJECT				

