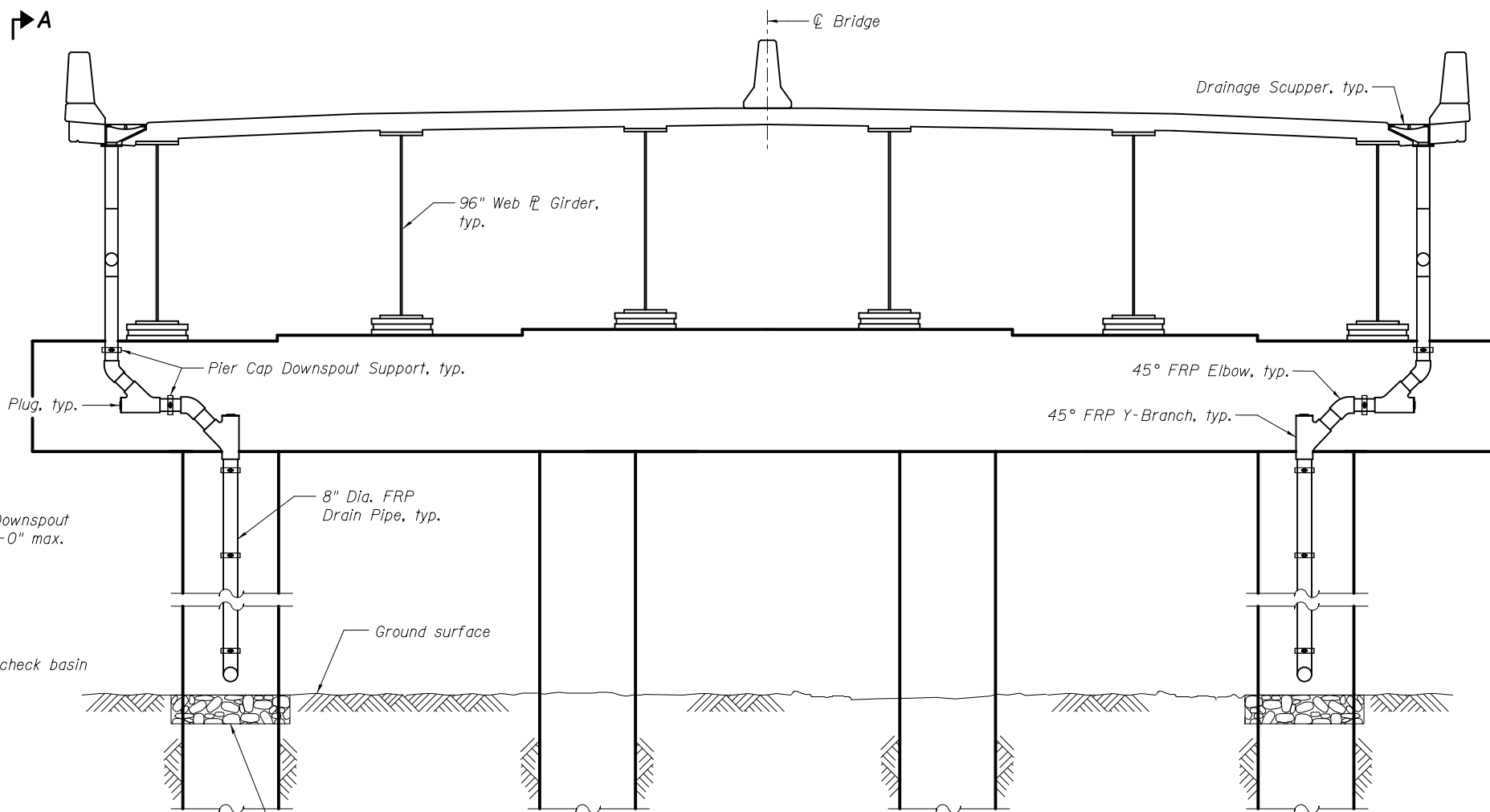
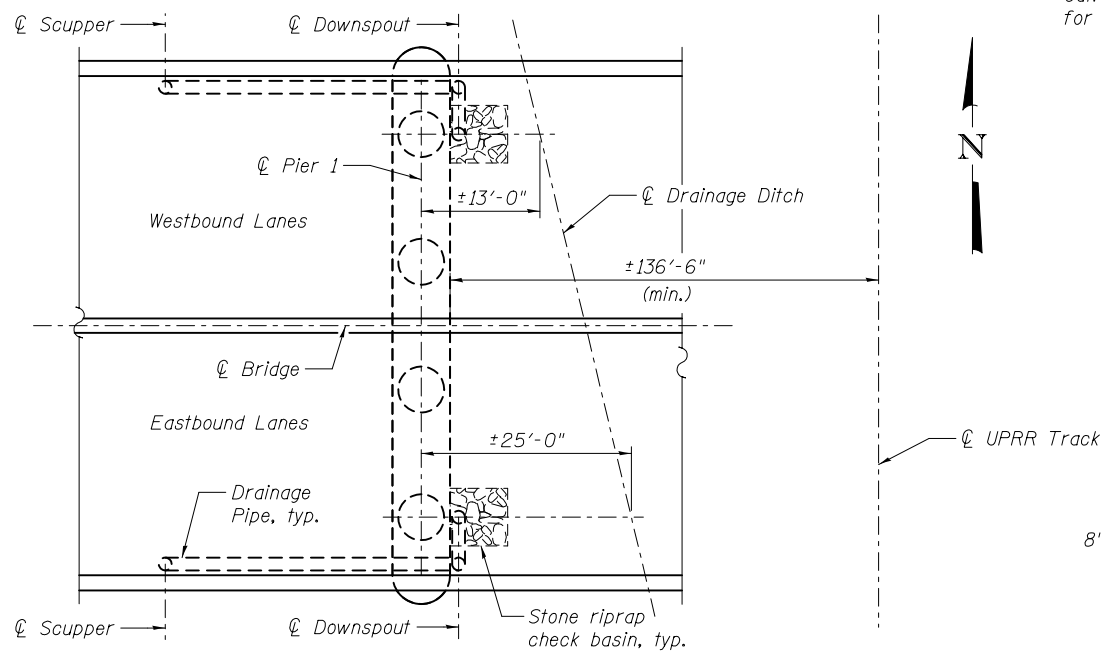


VIEW A-A



PIER 1
(Looking West)

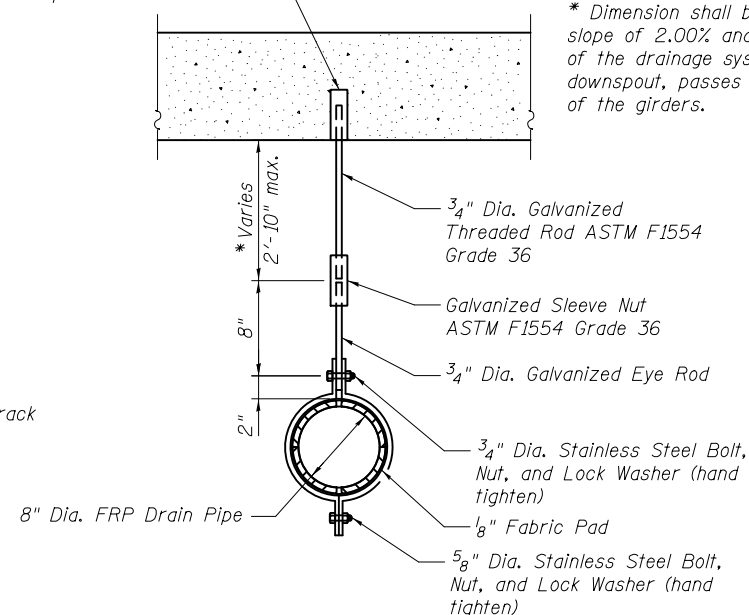


DRAINAGE PLAN AT PIER 1

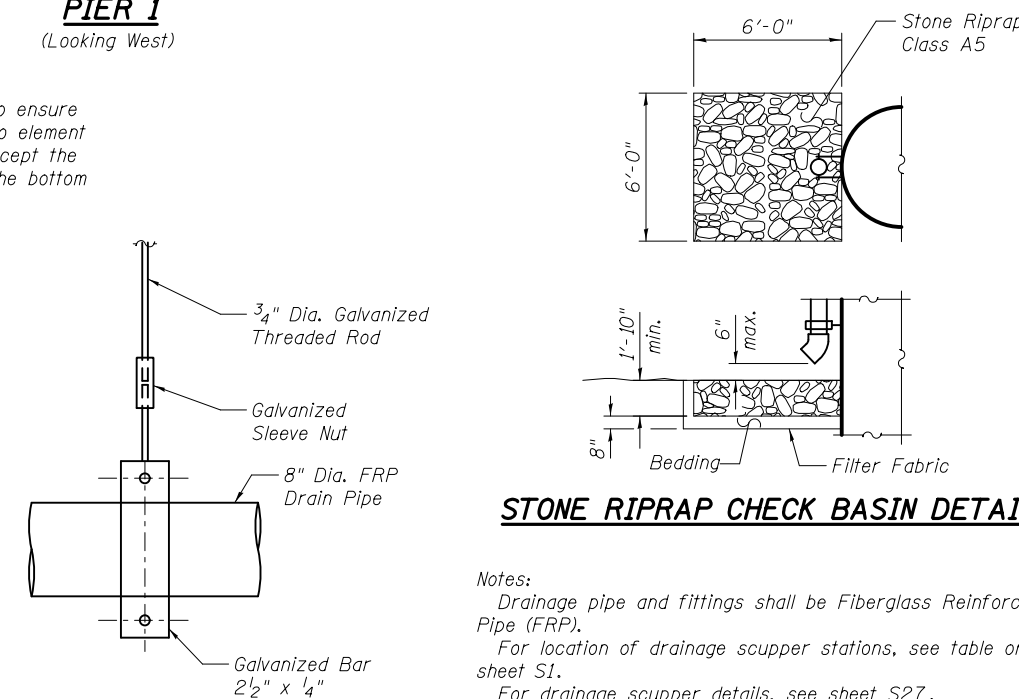
Note: Surface drainage flows east towards drainage ditch.

500 Lbs. Minimum Capacity Galvanized Concrete Insert for 3/4" Dia. Threaded Rods

* Dimension shall be set to ensure slope of 2.00% and that no element of the drainage system, except the downspout, passes below the bottom of the girders.



PIPE HANGER DETAIL



STONE RIPRAP CHECK BASIN DETAIL

Notes:
 Drainage pipe and fittings shall be Fiberglass Reinforced Pipe (FRP).
 For location of drainage scupper stations, see table on sheet S1.
 For drainage scupper details, see sheet S27.
 For pier cap downspout support details, see sheet S58.
 For pier column downspout support details, see sheet S59.
 The proposed structure will not change the quantity or characteristics of the flow in the railroad right-of-way.



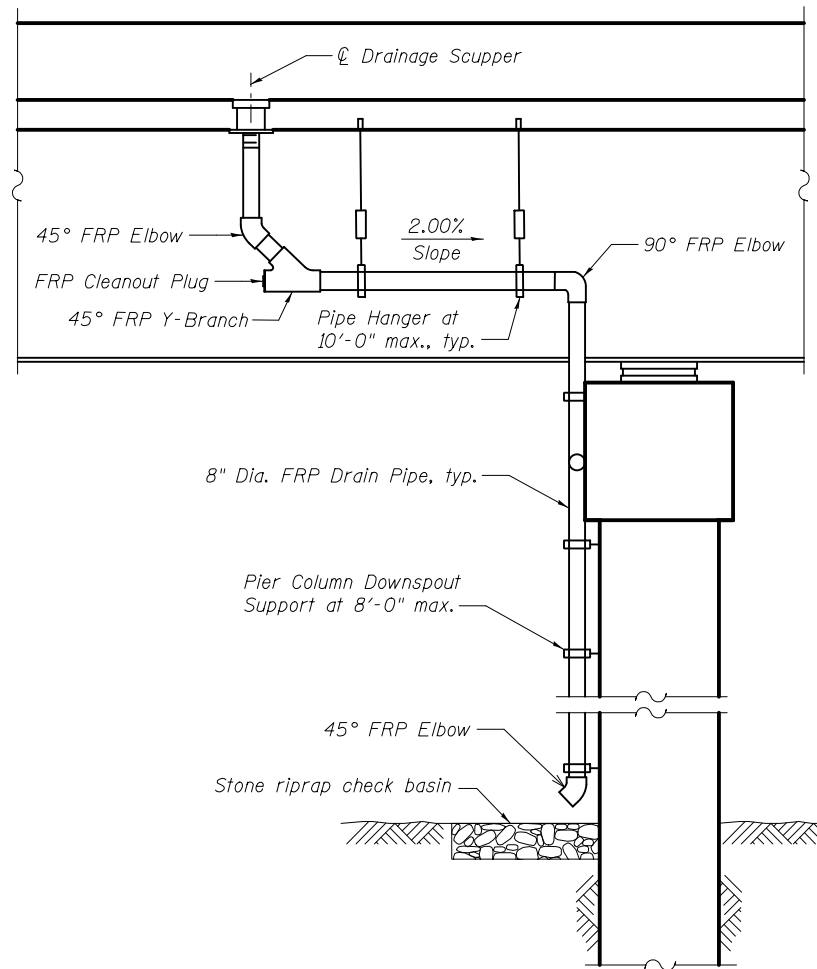
USER NAME =	DESIGNED - LNB	REVISED
	CHECKED - MJP	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 3/12/2018	CHECKED - LNB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

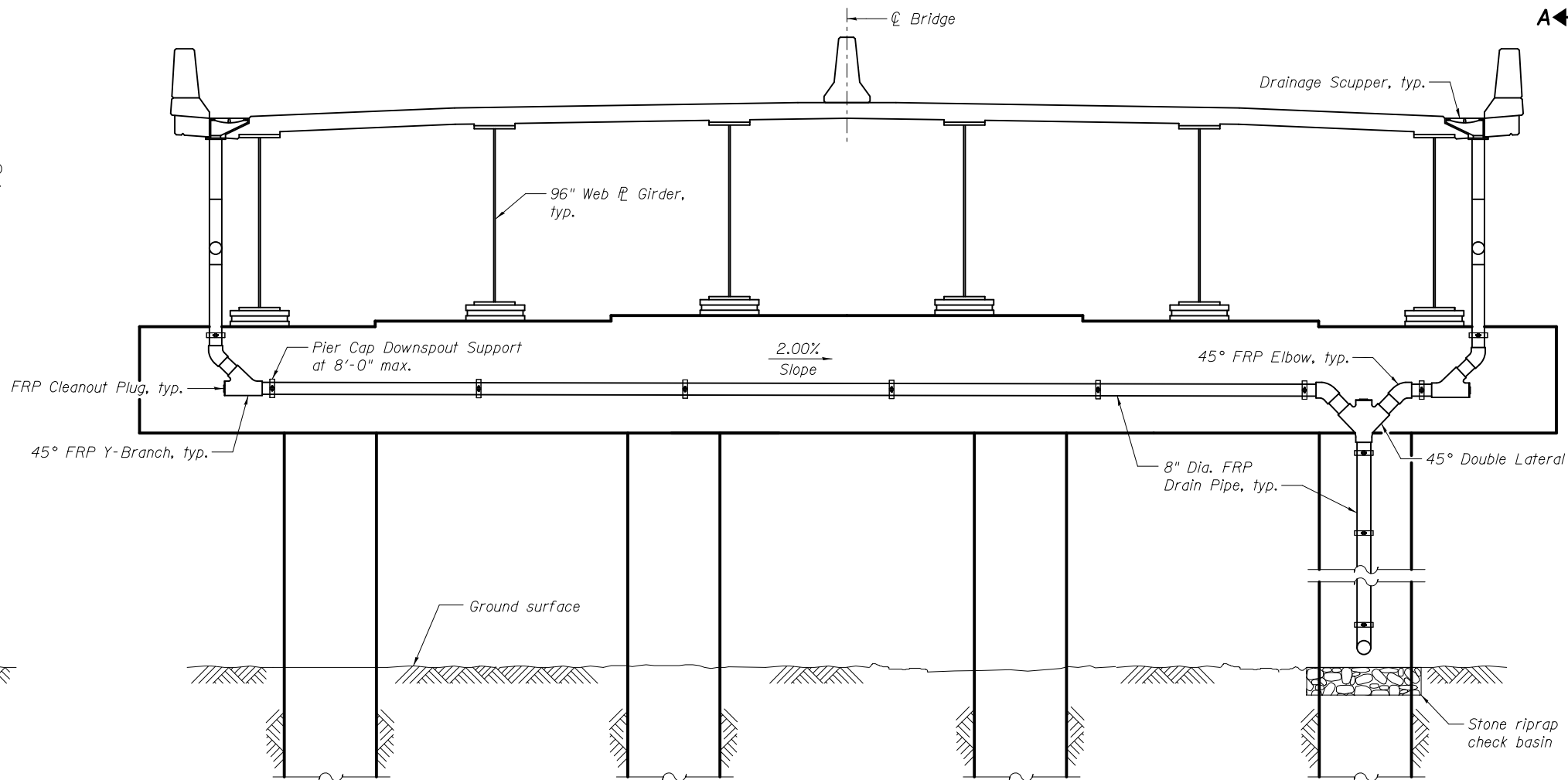
CLOSED DRAINAGE SYSTEM - 2
 S.N. 082-0374 MLK BRIDGE APPROACH OVER RELOCATED IL RTE 3,
 VARIOUS RAILROADS, MISSOURI AVE. AND I-55SB/64WB

SHEET NO. S57 OF S77 SHEETS

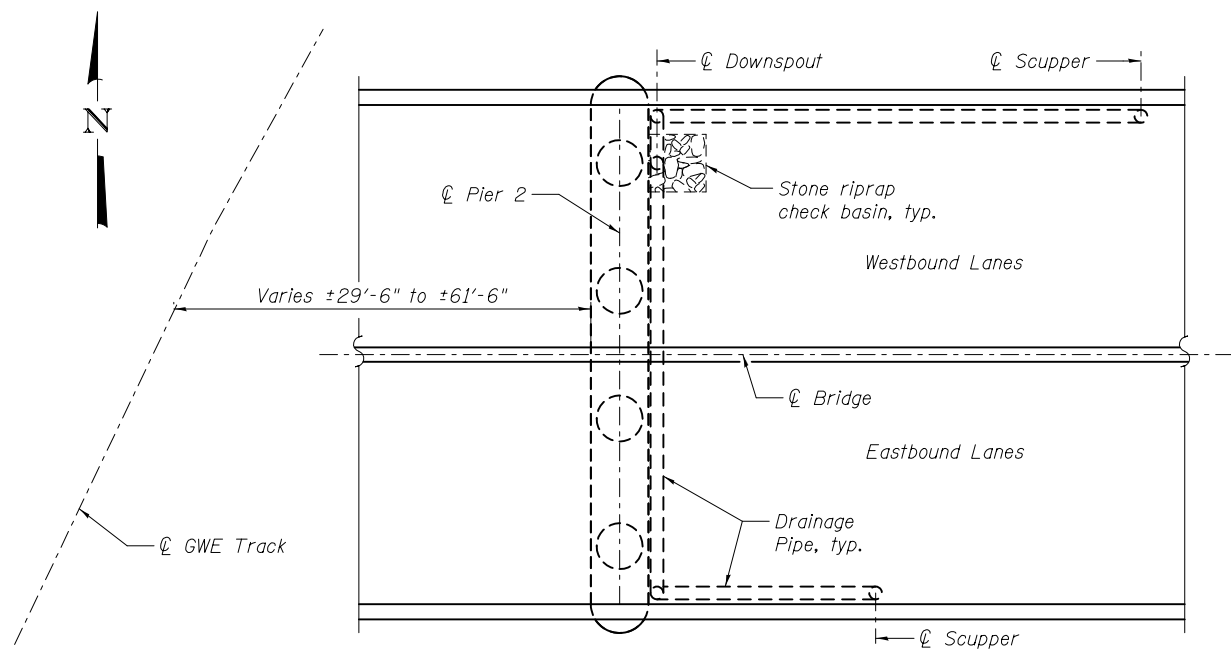
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	201
CONTRACT NO. 76G39				
ILLINOIS FED. AID PROJECT				



VIEW A-A

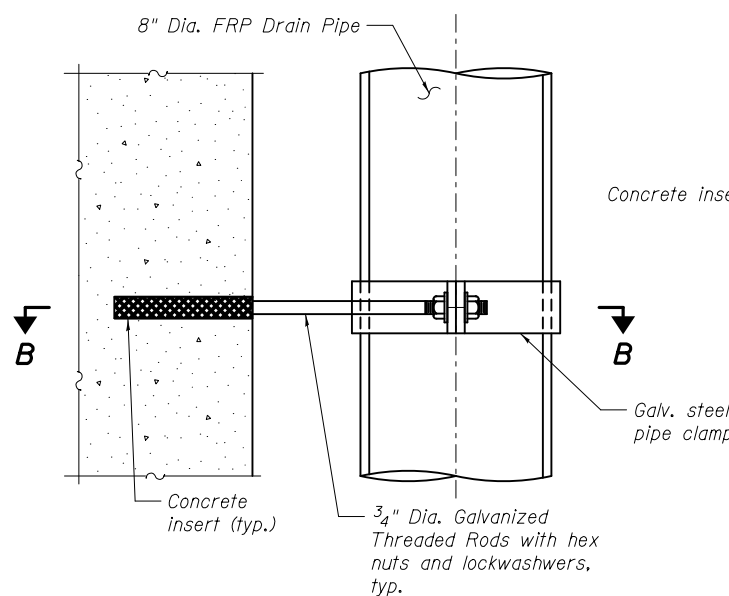


PIER 2
(Looking West)



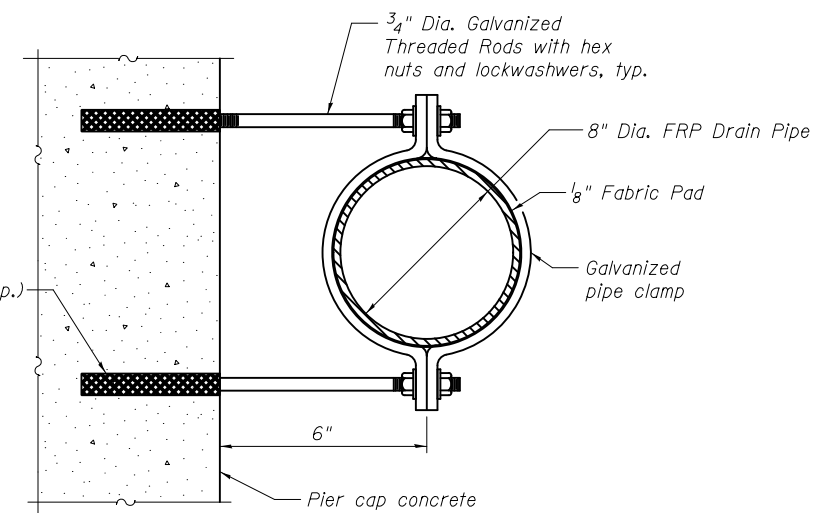
DRAINAGE PLAN AT PIER 2

Note: Surface drainage flows east towards Missouri Avenue.



DOWNSPOUT SUPPORT AT PIER CAP

Note: Not to be used for pier columns.



SECTION B-B

Notes:
 Drainage pipe and fittings shall be Fiberglass Reinforced Pipe (FRP).
 For location of drainage scupper stations, see table on sheet S1.
 For drainage scupper details, see sheet S27.
 For pipe hanger supports, see sheet S57.
 For stone riprap check basin detail, see sheet S57.
 For downspout support at pier column, see sheet S59.
 The proposed structure will not change the quantity or characteristics of the flow in the railroad right-of-way.



USER NAME =	DESIGNED - LNB	REVISED
	CHECKED - MJP	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 3/12/2018	CHECKED - LNB	REVISED

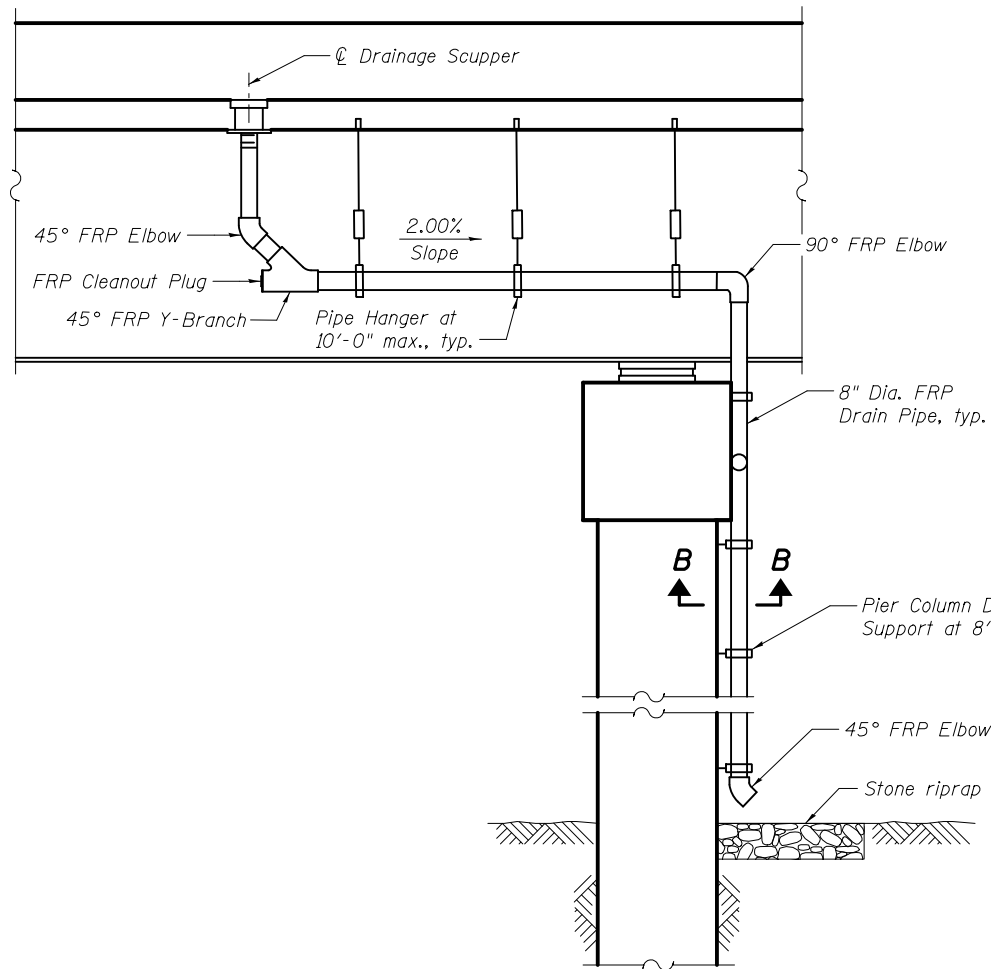
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CLOSED DRAINAGE SYSTEM - 3
S.N. 082-0374 MLK BRIDGE APPROACH OVER RELOCATED IL RTE 3,
VARIOUS RAILROADS, MISSOURI AVE. AND I-55SB/64WB

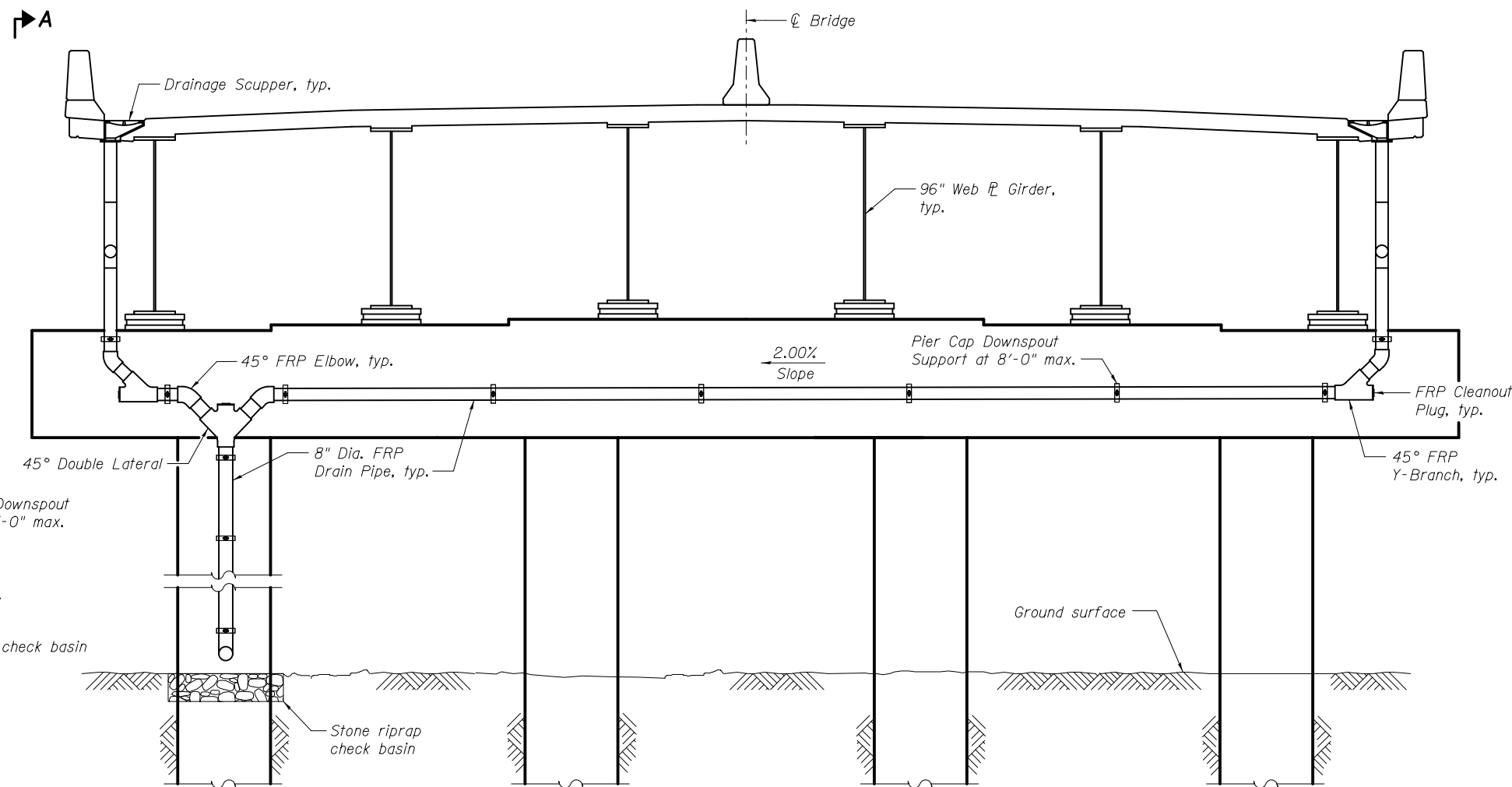
SHEET NO. S58 OF S77 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	202
CONTRACT NO. 76G39				

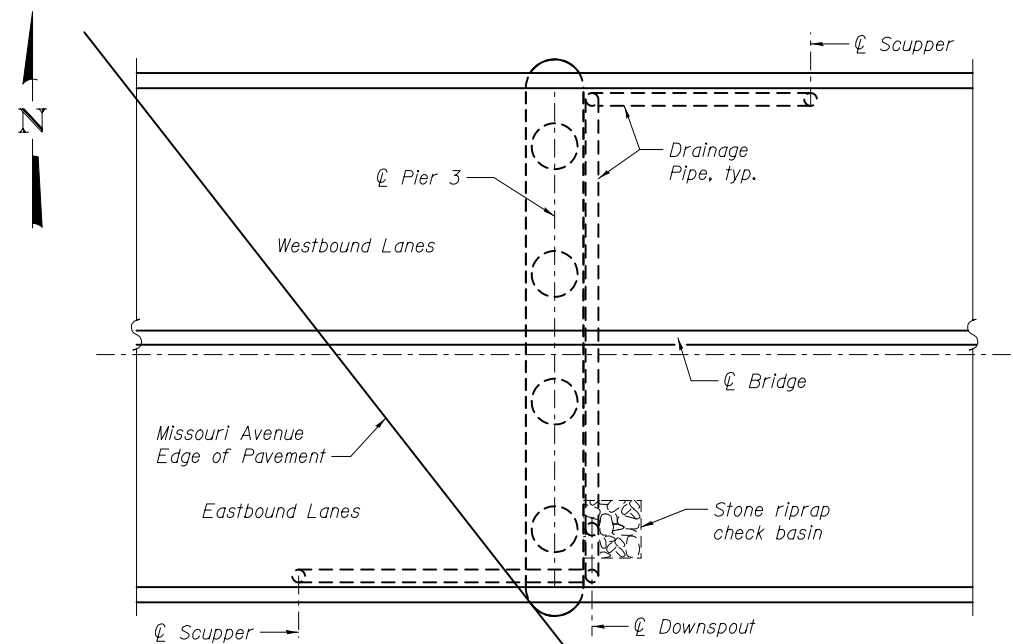
ILLINOIS FED. AID PROJECT



VIEW A-A

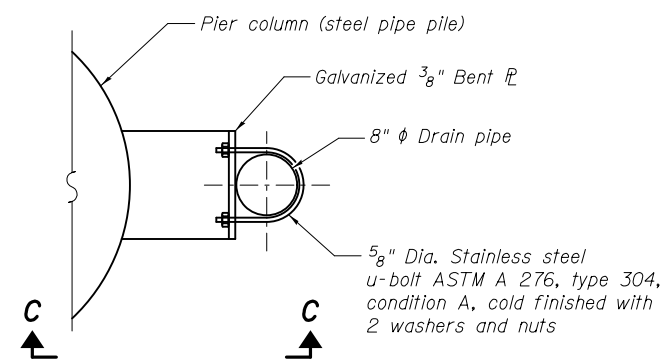


PIER 3
(Looking West)



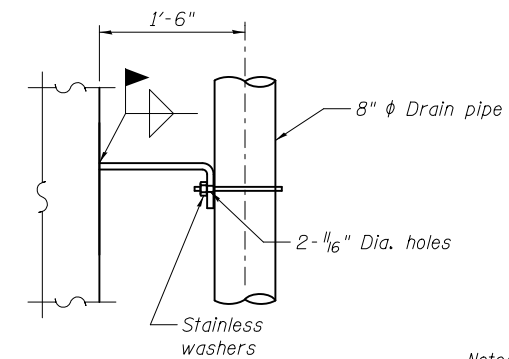
DRAINAGE PLAN AT PIER 3

Note: Surface drainage flows east towards I-55/I-64.



SECTION B-B

Cut I to fit column curvature



VIEW C-C

DOWNSPOUT SUPPORT AT PIER COLUMN

Notes:
 Drainage pipe and fittings shall be Fiberglass Reinforced Pipe (FRP).
 For location of drainage scupper stations, see table on sheet S1.
 For drainage scupper details, see sheet S27.
 For pipe hanger supports, see sheet S57.
 For stone riprap check basin detail, see sheet S57.
 For downspout support at pier cap, see sheet S58.



USER NAME =	DESIGNED - LNB	REVISED
	CHECKED - MJP	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 3/12/2018	CHECKED - LNB	REVISED

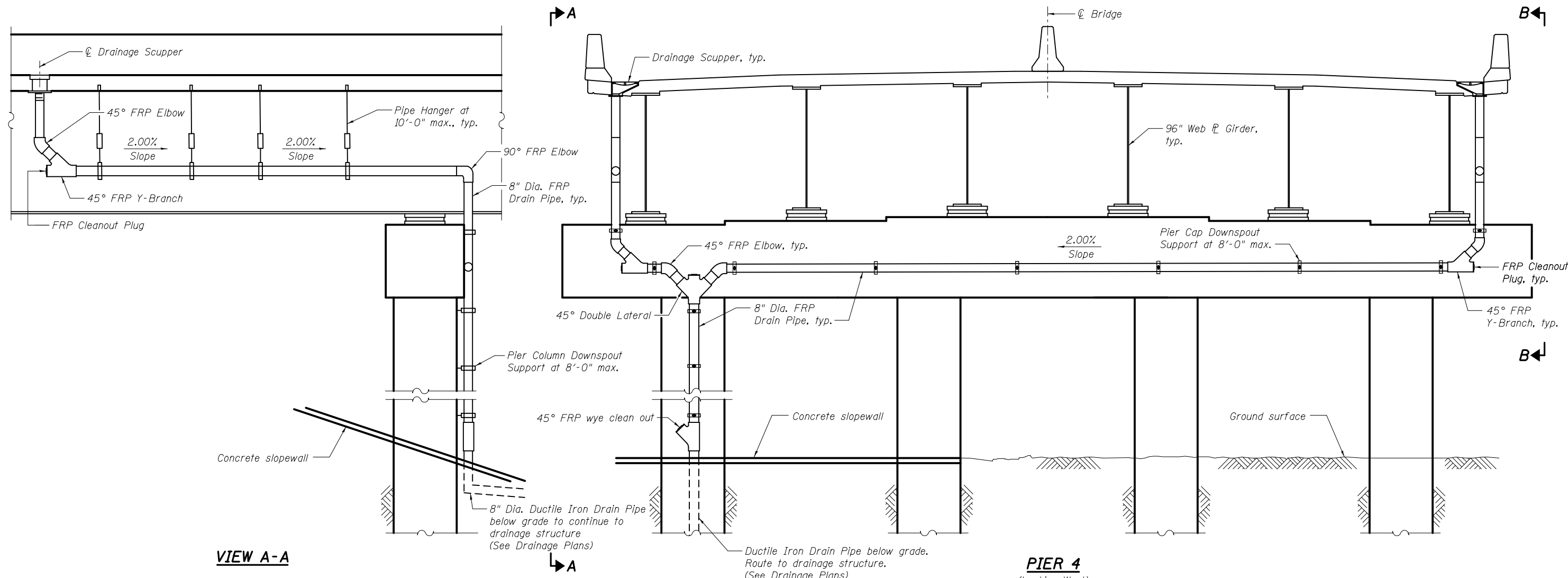
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CLOSED DRAINAGE SYSTEM - 4
 S.N. 082-0374 MLK BRIDGE APPROACH OVER RELOCATED IL RTE 3,
 VARIOUS RAILROADS, MISSOURI AVE. AND I-55SB/64WB

SHEET NO. 559 OF 577 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	203
CONTRACT NO. 76G39				

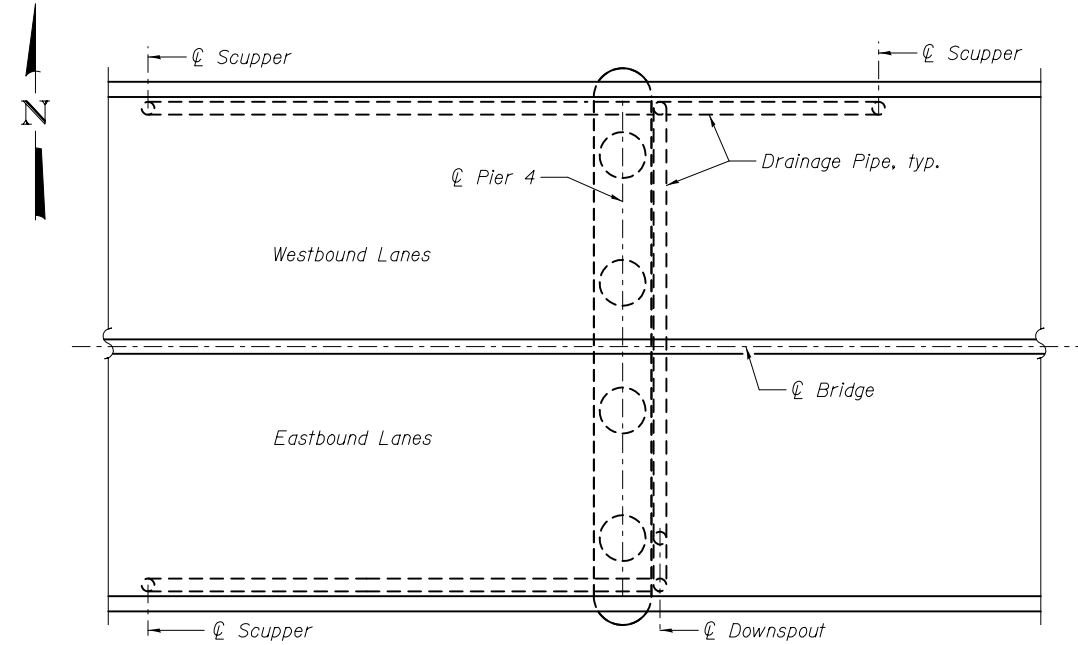
ILLINOIS FED. AID PROJECT



VIEW A-A

PIER 4
(Looking West)

VIEW B-B



DRAINAGE PLAN AT PIER 4

Note: Surface drainage flows east to toe of slopewall.

Notes:
 Drainage pipe and fittings shall be Fiberglass Reinforced Pipe (FRP), except as noted.
 For location of drainage scupper stations, see table on sheet S1.
 For drainage scupper details, see sheet S27.
 For pipe hanger supports, see sheet S57.
 For stone riprap check basin detail, see sheet S57.
 For downspout support at pier cap, see sheet S58.
 For downspout support at pier column, see sheet S59.

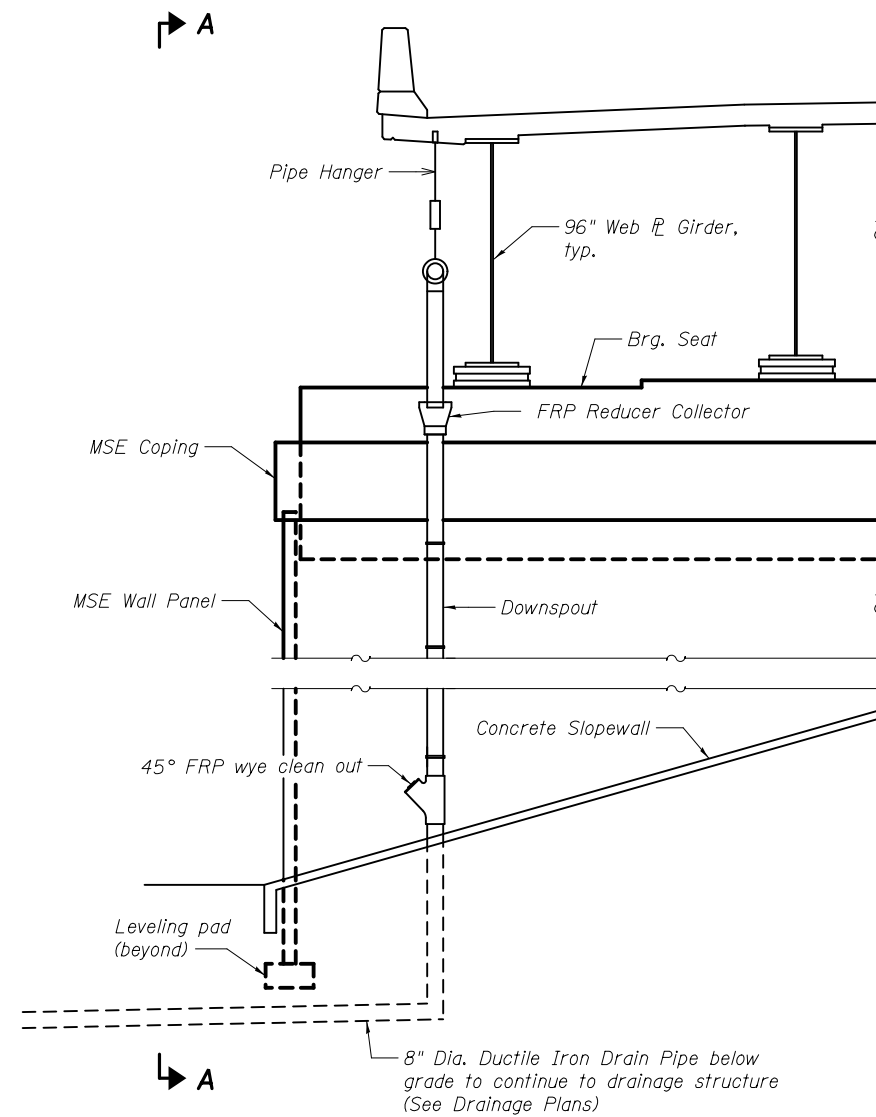


USER NAME =	DESIGNED - LNB	REVISED
	CHECKED - MJP	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 3/12/2018	CHECKED - LNB	REVISED

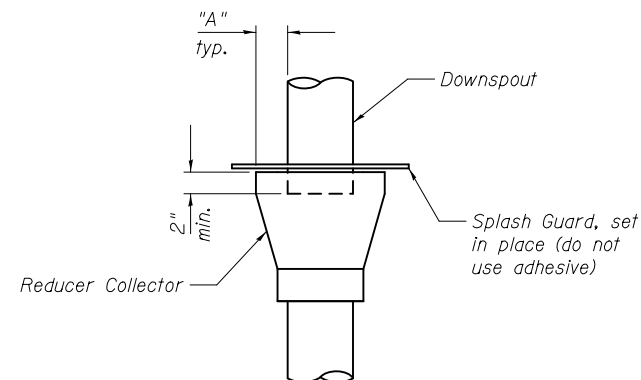
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CLOSED DRAINAGE SYSTEM - 5
 S.N. 082-0374 MLK BRIDGE APPROACH OVER RELOCATED IL RTE 3,
 VARIOUS RAILROADS, MISSOURI AVE. AND I-55SB64WB
 SHEET NO. S60 OF S77 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	204
CONTRACT NO. 76G39				
ILLINOIS FED. AID PROJECT				

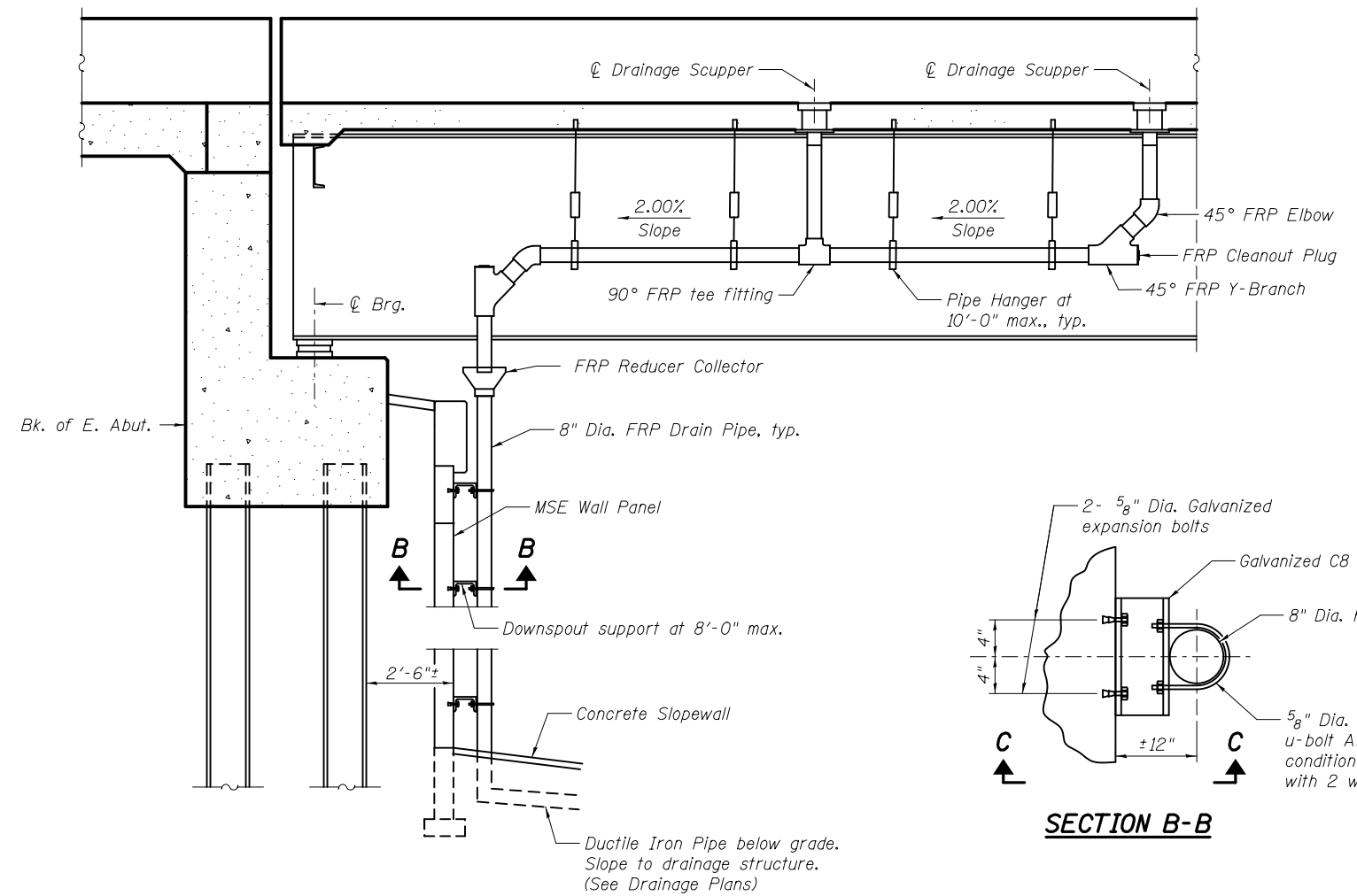


PARTIAL ELEVATION AT EAST ABUTMENT
(Looking East)

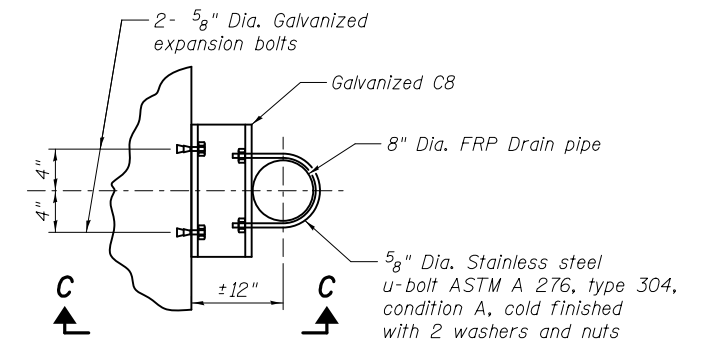


FRP REDUCER COLLECTOR DETAIL

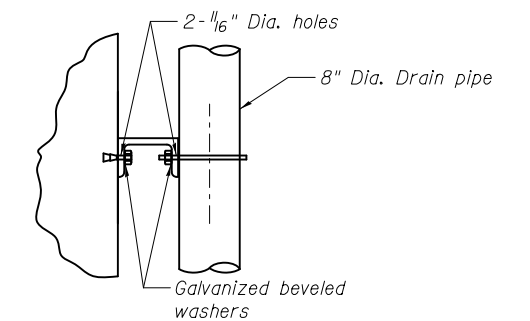
Dim. "A" = 6" min. in longitudinal direction of deck



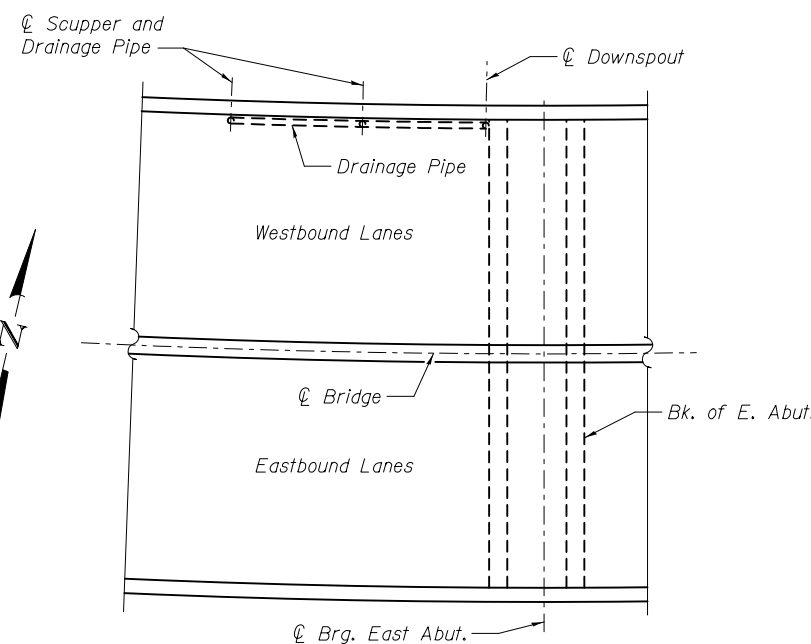
VIEW A-A



SECTION B-B



VIEW C-C



DRAINAGE PLAN NEAR EAST ABUTMENT

Note: Surface drainage flows west to toe of slopewall.

Notes:
 Drainage pipe and fittings shall be Fiberglass Reinforced Pipe (FRP), except as noted.
 For location of drainage scupper stations, see table on sheet S1.
 For drainage scupper details, see sheet S27.
 For pipe hanger supports, see sheet S57.



USER NAME =	DESIGNED - PRC	REVISED
	CHECKED - JMH	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 3/12/2018	CHECKED - JMH	REVISED

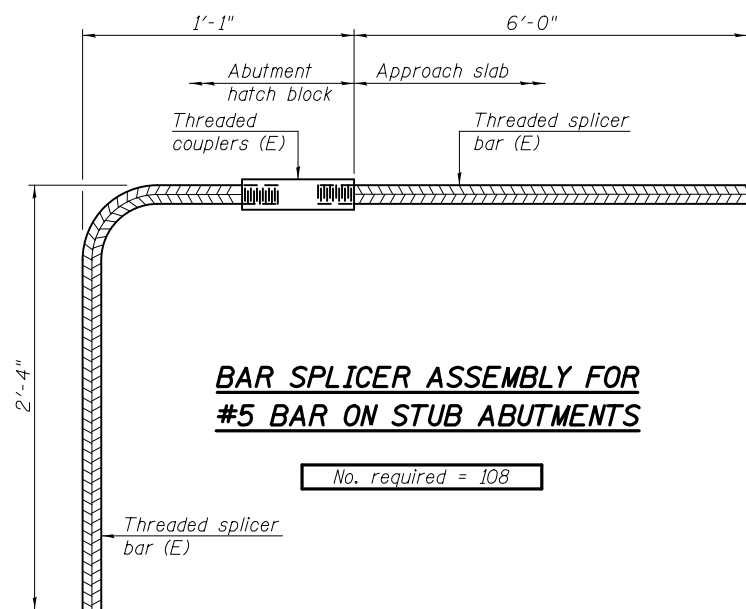
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CLOSED DRAINAGE SYSTEM - 6
 S.N. 082-0374 MLK BRIDGE APPROACH OVER RELOCATED IL RTE 3,
 VARIOUS RAILROADS, MISSOURI AVE. AND I-55SB64WB

SHEET NO. S61 OF S77 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	205
CONTRACT NO. 76G39				

ILLINOIS FED. AID PROJECT



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.



USER NAME =	DESIGNED - MJP	REVISED
	CHECKED - LNB	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 3/12/2018	CHECKED - MJP	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY
S.N. 082-0374 MLK BRIDGE APPROACH OVER RELOCATED IL RTE 3,
VARIOUS RAILROADS, MISSOURI AVE. AND I-55SB64WB**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	206
CONTRACT NO. 76G39				
ILLINOIS FED. AID PROJECT				

SOIL BORING LOG

Date 6/9-6/15/2016

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY BDG (SCI)

SECTION 1BR-1-1 LOCATION East Saint Louis, Illinois, SEC., TWP., RNG., Latitude, Longitude

COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-6003(E), 082-0374(P)
Station
BORING NO. BB-301
Station 61+50
Offset 80.0 ft LT
Ground Surface Elev. 417.0 ft

DEPTH (ft)	DIAMETER (in)	SOIL TYPE	UNCONFINED COMPRESSIVE STRENGTH (tsf)	MOISTURE (%)	DEPTH (ft)	DIAMETER (in)	SOIL TYPE	UNCONFINED COMPRESSIVE STRENGTH (tsf)	MOISTURE (%)
0		SAND: Gray, A-3 (continued)			0		SAND w/ GRAVEL: Gray, with fractured rock, A-1	27	
5					5				
6					6				
7					7				
330.0		SAND w/ GRAVEL: Gray, A-1			330.0				
50/6"					50/6"		GRAVEL w/ SAND: Gray, trace weathered sandstone, A-1	50/5"	
23					23				
13					13				
325.0		SAND: Gray, A-3			325.0				
22					22				
31					31				
36					36				
298.0		Set Casing			298.0				
23					23		Borehole continued with rock coring.		
25					25				
317.0					317.0				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

ROCK CORE LOG

Date 6/9-6/15/2016

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY BDG (SCI)

SECTION 1BR-1-1 LOCATION East Saint Louis, Illinois, SEC., TWP., RNG., Latitude, Longitude

COUNTY Saint Clair CORING METHOD

STRUCT. NO. 082-6003(E), 082-0374(P)
Station
BORING NO. BB-301
Station 61+50
Offset 80.0 ft LT
Ground Surface Elev. 417.0 ft

DEPTH (ft)	CORING BARREL TYPE & SIZE	RECOVERY (%)	ROQ (%)	CORE TIME (min/ft)	STRENGTH (tsf)
0	NX Wireline				
1		100	94	3.07	
-125					634.3
2		100	95	2.6	
-130					1129.7
3		100	88	3.3	
-135					1214.6
280.14					1096.3
-140					

Color pictures of the cores Yes
Cores will be stored for examination until
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)



USER NAME =	DESIGNED - MJP	REVISED
	CHECKED - LNB	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 3/12/2018	CHECKED - MJP	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING - 2
S.N. 082-0374 MLK BRIDGE APPROACH OVER RELOCATED IL RTE 3,
VARIOUS RAILROADS, MISSOURI AVE. AND I-55SB/64WB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	208
			CONTRACT NO. 76G39	

ROCK CORE LOG

Date 6/9-6/16/2016

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY TC (SCI)

SECTION 1BR-1-1 LOCATION East Saint Louis, Illinois, SEC., TWP., RNG., Latitude, Longitude

COUNTY Saint Clair CORING METHOD NX Wireline

STRUCT. NO. 082-6003(E), 082-0374(P) CORING BARREL TYPE & SIZE NX Wireline
 Station
 BORING NO. BB-302B Core Diameter 2 in
 Station 64+01 Top of Rock Elev. 296.70 ft
 Offset 34.0 ft LT Begin Core Elev. 293.20 ft
 Ground Surface Elev. 416.0 ft

DEPTH (ft)	CORER (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
293.20	1	95	66	5.5	
					766.2
-125	2	100	93	4.4	
					1128.7
-130	3	99	78	3.8	
					897.9
-135	4	100	76	4.5	
					908.5
278.00					853.7
-140					

Color pictures of the cores Yes
 Cores will be stored for examination until _____
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
 BBS, form 138 (Rev. 8-99)

SOIL BORING LOG

Date 6/2-6/8/2016

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY TC (SCI)

SECTION 1BR-1-1 LOCATION East Saint Louis, Illinois, SEC., TWP., RNG., Latitude, Longitude

COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-6003(E), 082-0374(P)
 Station
 BORING NO. BB-303
 Station 65+93
 Offset 20.0 ft RT
 Ground Surface Elev. 416.0 ft

DEPTH (ft)	BLUOS (ft)	UCS (tsf)	MOS (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev.: First Encounter (ft)	Upon Completion After N/A Hrs. (ft)	DEPTH (ft)	BLUOS (ft)	UCS (tsf)	MOS (%)
				N/A	N/A	386.5	N/A				
	3	N/C	15						4	N/C	
	8								8		
	11								8		
	8	N/C	11						4	N/C	
	7								6		
	3								10		
	6	0.3	30						3	N/C	
	3	S/15							4	0.5	28
	2								9	P	
	2	N/C	17						1	0.3	
	3								1	S/15	34
	2								9	N/C	
	1	1.1	32								
	1	S/20									
	3										
	6	0.8	27						5	N/C	
	6	P							4		
	15								4		
	3	N/C									
	4										
	6										
	1	N/C	18						3	N/C	
	3								8		
	5								13		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

SOIL BORING LOG

Date 6/2-6/8/2016

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY TC (SCI)

SECTION 1BR-1-1 LOCATION East Saint Louis, Illinois, SEC., TWP., RNG., Latitude, Longitude

COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-6003(E), Station 082-0374(P)	D E P T H	B L O W S	U C S Q u	M O I S T	Surface Water Elev. N/A ft	D E P T H	B L O W S	U C S Q u	M O I S T
BORING NO. BB-303 Station 65+93 Offset 20.0 ft RT Ground Surface Elev. 416.0 ft	(ft)	(/6")	(tsf)	(%)	Stream Bed Elev. N/A ft	(ft)	(/6")	(tsf)	(%)
Groundwater Elev.: First Encounter 386.5 ft Upon Completion N/A ft After N/A Hrs. N/A ft									

SAND: Orangish-brown, A-3 (continued)					SAND: Orangish-brown, A-3 (continued)				
Trace fine gravel	4 12 17		N/C		9 17 18		N/C		
	14 18 19		N/C		8 11 15		N/C		
	21 19 17		N/C		19 20 18		N/C		
	7 12 16		N/C		25 25 22		N/C		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

SOIL BORING LOG

Date 6/2-6/8/2016

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY TC (SCI)

SECTION 1BR-1-1 LOCATION East Saint Louis, Illinois, SEC., TWP., RNG., Latitude, Longitude

COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-6003(E), Station 082-0374(P)	D E P T H	B L O W S	U C S Q u	M O I S T	Surface Water Elev. N/A ft	D E P T H	B L O W S	U C S Q u	M O I S T
BORING NO. BB-303 Station 65+93 Offset 20.0 ft RT Ground Surface Elev. 416.0 ft	(ft)	(/6")	(tsf)	(%)	Stream Bed Elev. N/A ft	(ft)	(/6")	(tsf)	(%)
Groundwater Elev.: First Encounter 386.5 ft Upon Completion N/A ft After N/A Hrs. N/A ft									

STOP: 6/2/2016 SAND: Orangish-brown, A-3 (continued) START: 6/3/2016					SAND: Gray, A-3 (continued)				
	20 33 36		N/C		9 17 30		N/C		
SAND w/ LIMESTONE COBBLE: Gray, A-1	327.3 326.8	38 38	N/C		COBBLE w/ GRAVEL: Brown and gray, A-1	50/5"	--		
SAND: Gray, A-3	326.3	-90	20		STOP: 6/3/2016 START: 6/6/2016	50/5"	--		
SAND: Gray, A-3						50/3"	--		
					Borehole continued with rock coring.				
With limestone fragments ~93.5'		21 19	N/C						
Rough Drilling from 96.0' to 98.0'		-95 20							
		1 3	N/C						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

ROCK CORE LOG

Date 6/2-6/8/2016

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY TC (SCI)

SECTION 1BR-1-1 LOCATION East Saint Louis, Illinois, SEC., TWP., RNG., Latitude , Longitude

COUNTY Saint Clair CORING METHOD

STRUCT. NO. 082-6003(E), 082-0374(P) CORING BARREL TYPE & SIZE NX Wireline
 Station
 BORING NO. BB-303 Core Diameter 2 in
 Station 65+93 Top of Rock Elev. 305.20 ft
 Offset 20.0 ft RT Begin Core Elev. 305.20 ft
 Ground Surface Elev. 416.0 ft

	DEPTH (ft)	COVER (#)	RECOVERY (%)	ROQ (%)	CORE TIME (min/ft)	STRENGTH (tsf)
ROCK CORE from 110.8'-115.1' - Recovered cobble fragments and fractured gravels	305.20	1	14	0	4.42	
ROCK CORE from 115.1'-116.1' - Recovered cobble fragments and fractured gravel	300.90	2	25	0	3	
COBBLE w/ GRAVEL: Brown and gray, A-1	299.90					
		SS-31				
		SS-32				
LIMESTONE: Dark and light gray, very hard, aphanitic to coarsely crystalline, highly fractured, moderately weathered	296.50	3	69	33	7.7	
Becomes light gray, moderately hard, finely crystalline, thinly bedded, slightly weathered						
5.5" open vertical fracture						1243.8
Becomes banded		4	100	100	4	
Becomes medium bedded						1053.5
Becomes cherty, hard						
0.6" open vertical fracture	-125	5	100	72	5	263.5
0.9" open vertical fracture						
13.6 open vertical fracture, becomes thinly bedded						
Becomes thickly bedded	-130	6	95	88	4.9	
	285.25					

Color pictures of the cores Yes
 Cores will be stored for examination until
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

ROCK CORE LOG

Date 6/2-6/8/2016

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY TC (SCI)

SECTION 1BR-1-1 LOCATION East Saint Louis, Illinois, SEC., TWP., RNG., Latitude , Longitude

COUNTY Saint Clair CORING METHOD

STRUCT. NO. 082-6003(E), 082-0374(P) CORING BARREL TYPE & SIZE NX Wireline
 Station
 BORING NO. BB-303 Core Diameter 2 in
 Station 65+93 Top of Rock Elev. 305.20 ft
 Offset 20.0 ft RT Begin Core Elev. 305.20 ft
 Ground Surface Elev. 416.0 ft

	DEPTH (ft)	COVER (#)	RECOVERY (%)	ROQ (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE: Light gray, moderately hard, finely crystalline, thickly bedded, slightly weathered, cherty (continued)						121.6
	-135					519.5
Boring terminated at 136.5 ft						
Boring grouted to 136.5 ft						
	279.50					
	-140					
	-145					
	-150					

Color pictures of the cores Yes
 Cores will be stored for examination until
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)



USER NAME =	DESIGNED - MJP	REVISED
	CHECKED - LNB	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 3/12/2018	CHECKED - MJP	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING - 7
 S.N. 082-0374 MLK BRIDGE APPROACH OVER RELOCATED IL RTE 3,
 VARIOUS RAILROADS, MISSOURI AVE. AND I-55SB/64WB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	213
				CONTRACT NO. 76G39
ILLINOIS FED. AID PROJECT				

SHEET NO. 569 OF 577 SHEETS

SOIL BORING LOG

Page 1 of 4

Date 6/6-6/8/2016

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY BDG (SCI)

SECTION 1BR-1-1 LOCATION East Saint Louis, Illinois, SEC., TWP., RNG.,
Latitude, Longitude

COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-6003(E),
Station 082-0374(P)
BORING NO. BB-304
Station 68+79
Offset 35.0 ft LT
Ground Surface Elev. 416.0 ft (ft) (/6") (tsf) (%)

DEPTH (ft)	SOIL DESCRIPTION	WATER	TEMPERATURE	PERCENT MOISTURE	UNIFIED SOIL CLASSIFICATION	DEPTH (ft)	SOIL DESCRIPTION	WATER	TEMPERATURE	PERCENT MOISTURE	UNIFIED SOIL CLASSIFICATION
0	FILL: Brown and black, sandy clay, with cinders, A-6					0	SAND: Brown, A-3 (continued)				
414.5	FILL: Brown, sand, A-3				N/C	4					N/C
413.0	FILL: Brown with red and gray, sand, with brick and cinders, A-2					3					N/C
409.5	FILL: Red, brick, A-1					4					N/C
409.0	FILL: Brown, sand, A-3					5					N/C
408.0	CLAY: Dark gray, trace iron stains, A-7					4					N/C
387.3	SILTY SAND: Gray, A-3					4					
386.0	SAND: Gray, A-3					7					
398.0	SAND: Brown, A-3					5					N/C
398.0	SAND: Brown, A-3					6					N/C
19.0	Begin Mud Rotary at 19.0 feet.					7					N/C
19.0	Begin Mud Rotary at 19.0 feet.					7					N/C

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

SOIL BORING LOG

Page 2 of 4

Date 6/6-6/8/2016

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY BDG (SCI)

SECTION 1BR-1-1 LOCATION East Saint Louis, Illinois, SEC., TWP., RNG.,
Latitude, Longitude

COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-6003(E),
Station 082-0374(P)
BORING NO. BB-304
Station 68+79
Offset 35.0 ft LT
Ground Surface Elev. 416.0 ft (ft) (/6") (tsf) (%)

DEPTH (ft)	SOIL DESCRIPTION	WATER	TEMPERATURE	PERCENT MOISTURE	UNIFIED SOIL CLASSIFICATION	DEPTH (ft)	SOIL DESCRIPTION	WATER	TEMPERATURE	PERCENT MOISTURE	UNIFIED SOIL CLASSIFICATION
0	SAND: Gray, A-3 (continued)					0	SAND: Gray, A-3 (continued)				
11						12					N/C
12						13					N/C
14						16					N/C
14	Trace gravel					65					N/C
349.0	SAND: Gray, coarse, with gravel, A-1					16					N/C
349.0	SAND: Gray, coarse, with gravel, A-1					15					N/C
339.0	SAND: Gray, A-3					26					N/C
339.0	SAND: Gray, A-3					35					N/C
339.0	SAND: Gray, A-3					31					N/C
339.0	SAND: Gray, A-3					26					N/C
339.0	SAND: Gray, A-3					37					N/C
339.0	SAND: Gray, A-3					37					N/C

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY TC (SCI)

SECTION 1BR-1-1 LOCATION East Saint Louis, Illinois, SEC., TWP., RNG.,
Latitude, Longitude

COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-6003(E), Station 082-0374(P)	DEPTWHS	BLOS	UCS	MOST	Surface Water Elev. N/A ft	DEPTWHS	BLOS	UCS	MOST		
BORING NO. BB-305 Station 71+43	ft	(ft)	(/6")	(tsf)	(%)	Groundwater Elev.: First Encounter 377.5 ft	ft	(ft)	(/6")	(tsf)	(%)
Offset 55.0 ft LT						Upon Completion N/A ft					
Ground Surface Elev. 415.0						After N/A Hrs. N/A ft					

CRUSHED ROCK: Gray, 3-inch minus 414.0						SANDY LOAM: Brown, A-4 (continued)					
FILL: Black, clay, with cinders and brick, limestone gravel, A-6 4 9 7			>4.5 P								
Limestone gravel in shoe, no other recovery 2 3 -5											
			0.5 P								
CLAY: Gray, A-7 407.0											
			1.5 P			CLAY: Brown, trace fine sand, A-6 385.9					
			0.9 S/20								
Becomes brownish-gray 1 2 2			1.6 S/20			SANDY LOAM: Brown, A-4 383.5					
			0.8 S/20								
SAND: Brown, A-3 399.5											
			N/C								
CLAY: Brown, A-6 396.5											
SANDY LOAM: Brown, A-4 396.0			0.2 S/20			SAND: Brown, A-3 378.0					
						Becomes gray -40					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY TC (SCI)

SECTION 1BR-1-1 LOCATION East Saint Louis, Illinois, SEC., TWP., RNG.,
Latitude, Longitude

COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-6003(E), Station 082-0374(P)	DEPTWHS	BLOS	UCS	MOST	Surface Water Elev. N/A ft	DEPTWHS	BLOS	UCS	MOST		
BORING NO. BB-305 Station 71+43	ft	(ft)	(/6")	(tsf)	(%)	Groundwater Elev.: First Encounter 377.5 ft	ft	(ft)	(/6")	(tsf)	(%)
Offset 55.0 ft LT						Upon Completion N/A ft					
Ground Surface Elev. 415.0						After N/A Hrs. N/A ft					

SAND: Brown, A-3 (continued) Begin Mud Rotary at 40.0 feet.						SAND: Gray, A-3 (continued)					
			N/C								
SANDY LOAM: Gray, A-4 368.0						GRAVEL: Gray, A-1 348.0					
			N/C			SAND: Gray, A-3 346.5					
						GRAVEL: Gray, A-1 345.0					
SAND: Gray, A-3 363.0											
			N/C			SAND: Gray, A-3 341.5					
			N/C			SANDY LOAM: Gray, A-4 336.5					
						SAND: Gray, A-3 335.3					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



USER NAME =	DESIGNED - MJP	REVISED
	CHECKED - LNB	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 3/12/2018	CHECKED - MJP	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING - 10
S.N. 082-0374 MLK BRIDGE APPROACH OVER RELOCATED IL RTE 3,
VARIOUS RAILROADS, MISSOURI AVE. AND I-55B/64WB

F.A.P. RTE. 799	SECTION 1BR-1-1	COUNTY ST. CLAIR	TOTAL SHEETS 315	SHEET NO. 216
CONTRACT NO. 76G39			ILLINOIS FED. AID PROJECT	

SOIL BORING LOG

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY TC (SCI)

SECTION 1BR-1-1 LOCATION East Saint Louis, Illinois, SEC., TWP., RNG., Latitude, Longitude

COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	D	B	U	M	Surface Water Elev.	Stream Bed Elev.	D	B	U	M	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.				
082-6003(E), 082-0374(P)		BB-305	71+43	55.0 ft LT	415.0	(ft)	(/6")	(tsf)	(%)	N/A	N/A	(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft				
GRAVEL: Gray, A-1 (continued) Rough drilling from 80.0'-82.0'										GRAVEL: Gray, A-1														
SAND: Gray, A-3						331.5	13	9	N/C	SAND: Brownish-gray, trace gravel, A-3						14	27	N/C	Rough drilling from 105.0'-107.8'					
Coarse sand and rock fragments						-85	12			Weathered limestone and granite fragments in shoe; set casing at 109.3'						48	50/4"		STOP: 5/26/2016 START: 5/27/2016 COBBLE w/ GRAVEL: Gray and brown, A-1 No sample recovery					
Hard drilling from 92.0'-93.0'						-90	20	22	N/C	Borehole continued with rock coring.						50/5"			Boring terminated at 130.5 ft.					
						-95	14	15	N/C							50/3"			Boring grouted to 130.5 ft.					
						-95	14																	
							8	18	N/C															
						315.0	23																	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

ROCK CORE LOG

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY TC (SCI)

SECTION 1BR-1-1 LOCATION East Saint Louis, Illinois, SEC., TWP., RNG., Latitude, Longitude

COUNTY Saint Clair CORING METHOD NX Wireline

STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	D	C	R	C	R	C	S
082-6003(E), 082-0374(P)		BB-305	71+43	55.0 ft LT	415.0	(ft)	(#)	(%)	(%)	(min/ft)	(tsf)	RE
GRAVEL: Limestone and granite cobbles and boulders						302.70	1	12	0			
						-115						
SANDSTONE: Gray, moderately hard, very fine grained, banded, slightly weathered, calcareous Becomes medium bedded						298.50	2	69	56	5		94.1
Becomes thickly bedded						-120	3	95	82	2.8		85.7
3.2" open vertical fracture, becomes thin to medium bedded 2.2" open vertical fracture												
Becomes banded to thinly bedded, trace stylolites						-125	4	100	74	2.4		157.0
LIMESTONE: Light gray, moderately hard, very finely crystalline, medium bedded, slightly weathered						287.15	5	86	54	4		230.1
1.75" open vertical fracture						284.50						
Boring terminated at 130.5 ft.												
Boring grouted to 130.5 ft.												

Color pictures of the cores Yes
Cores will be stored for examination until
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)



USER NAME =	DESIGNED - MJP	REVISED
	CHECKED - LNB	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 3/12/2018	CHECKED - MJP	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING - 11
S.N. 082-0374 MLK BRIDGE APPROACH OVER RELOCATED IL RTE 3,
VARIOUS RAILROADS, MISSOURI AVE. AND I-55SB/64WB

SHEET NO. 573 OF 577 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	217
CONTRACT NO. 76G39			ILLINOIS FED. AID PROJECT	



SOIL BORING LOG

Date 5/26-6/2-2016

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY BDG (SCI)

SECTION 1BR-1-1 LOCATION East Saint Louis, Illinois, SEC., TWP., RNG.,
Latitude, Longitude

COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	DEPTH (ft)	DIAMETER (in)	UNIT WEIGHT (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	DIAMETER (in)	UNIT WEIGHT (tsf)	MOISTURE (%)
082-6003(E), 082-0374(P)		BB-306	74+00	31.0 ft LT	427.0									
3" TOPSOIL														
FILL: Brown and gray, clay, trace fine sand and cinders, A-6														
					426.8	2					2	N/C		30
						4	>4.5 P				2		1.5 P	32
FILL: Brown, sandy clay, A-6														
					424.0	2					1		0.8 P	28
FILL: Brown, sand, A-3														
FILL: Brown, clay, with cinders, trace sand, A-6														
					422.5	3	0.5 P				2			
					422.0	3					2			
FILL: Brown, sand, A-3														
					420.5	2					ST	0.5 S/10.6		33
						5					2	0.9 S/15		28
						5					5	N/C		29
						6					7	N/C		29
Trace clay lumps														
						3								
						4	N/C							
						6								
CLAY: Gray, A-7														
					395.0									
						4					WOH	0.9 B/20		49
						6					1			
						8					2			
FILL: Black, cinders, A-4														
					407.5	6								
						7								
						7								
						4					6	N/C		
						7					8			
						4					10			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 5/26-6/2-2016

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY BDG (SCI)

SECTION 1BR-1-1 LOCATION East Saint Louis, Illinois, SEC., TWP., RNG.,
Latitude, Longitude

COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	DEPTH (ft)	DIAMETER (in)	UNIT WEIGHT (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	DIAMETER (in)	UNIT WEIGHT (tsf)	MOISTURE (%)
082-6003(E), 082-0374(P)		BB-306	74+00	31.0 ft LT	427.0									
SAND: Brown, A-3 (continued)														
Begin Mud Rotary at 40.0 feet.														
						10					10	N/C		
						12					19	N/C		
						15					21			
FILL: Brown, sandy clay, A-6														
					424.0	2								
					422.5	3	0.5 P							
					422.0	3								
FILL: Brown, sand, A-3														
					420.5	2								
						5								
						5								
SAND: Brown, A-3 (continued)														
					359.5									
FILL: Brown, sand, A-3														
					358.8									
SAND: Gray, A-3														
						5					6	N/C		
						7					11			
						12					12			
Trace gravel														
						10								
						11					8	N/C		
						12					8			
Becomes brownish-gray														
						10								
						11								
						12					7			
						4								
						6								
						10					12	N/C		
						10					10			
						10					7			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



USER NAME =	DESIGNED - MJP	REVISED
CHECKED - LNB	REVISED	
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 3/12/2018	CHECKED - MJP	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING - 12
S.N. 082-0374 MLK BRIDGE APPROACH OVER RELOCATED IL RTE 3,
VARIOUS RAILROADS, MISSOURI AVE. AND I-55SB/64WB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	218
			CONTRACT NO. 76G39	
ILLINOIS FED. AID PROJECT				



Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Date 5/26-6/2-2016

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY BDG (SCI)

SECTION 1BR-1-1 LOCATION East Saint Louis, Illinois, SEC., TWP., RNG., Latitude, Longitude

COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-6003(E), Station 082-0374(P)
BORING NO. BB-306 Station 74+00 Offset 31.0 ft LT Ground Surface Elev. 427.0 ft

DEPTH (ft)	BLUES QU (%)	M O I S T (%)	Surface Water Elev. ft	Stream Bed Elev. ft	Groundwater Elev.: First Encounter ft	Upon Completion ft	After N/A Hrs. ft
10	N/C		N/A	N/A	N/A	N/A	N/A
14	N/C						
16	N/C						
15	N/C						
14	N/C						
12	N/C						
12	N/C						
16	N/C						
22	N/C						
16	N/C						

SAND: Gray, A-3 (continued)							
Rough drilling from 87.0'-88.5'							
SAND: Gray, A-1							
WEATHERED LIMESTONE w/ CLAY LOAM: Brown and gray, with chert gravel, A-1							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Date 5/26-6/2-2016

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY BDG (SCI)

SECTION 1BR-1-1 LOCATION East Saint Louis, Illinois, SEC., TWP., RNG., Latitude, Longitude

COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-6003(E), Station 082-0374(P)
BORING NO. BB-306 Station 74+00 Offset 31.0 ft LT Ground Surface Elev. 427.0 ft

DEPTH (ft)	BLUES QU (%)	M O I S T (%)	Surface Water Elev. ft	Stream Bed Elev. ft	Groundwater Elev.: First Encounter ft	Upon Completion ft	After N/A Hrs. ft
30	N/C		N/A	N/A	N/A	N/A	N/A
41	N/C						
30	N/C						
41	N/C						
23	N/C						
44	N/C						
47	N/C						
27	N/C						
33	N/C						
37	N/C						
16	N/C						
22	N/C						
16	N/C						

WEATHERED LIMESTONE w/ CLAY LOAM: Brown and gray, with chert gravel, A-1 (continued)							
Borehole continued with rock coring.							
WEATHERED LIMESTONE w/ CLAY LOAM: Brown and gray, with chert gravel, A-1							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



USER NAME =	DESIGNED - MJP	REVISED
	CHECKED - LNB	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 3/12/2018	CHECKED - MJP	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SOIL BORING - 13
S.N. 082-0374 MLK BRIDGE APPROACH OVER RELOCATED IL RTE 3,
VARIOUS RAILROADS, MISSOURI AVE. AND I-55SB/64WB

SHEET NO. 575 OF 577 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	219
				CONTRACT NO. 76G39

ILLINOIS FED. AID PROJECT



ROCK CORE LOG

Date 5/26-6/2-2016

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY BDG (SCI)

SECTION 1BR-1-1 LOCATION East Saint Louis, Illinois, SEC. , TWP. , RNG. Latitude , Longitude

COUNTY Saint Clair CORING METHOD

STRUCT. NO. 082-6003(E), 082-0374(P) CORING BARREL TYPE & SIZE NX Wireline
 Station
 BORING NO. BB-306 Core Diameter 2 in
 Station 74+00 Top of Rock Elev. 300.28 ft
 Offset 31.0 ft LT Begin Core Elev. 300.28 ft
 Ground Surface Elev. 427.0 ft

DEPTH (ft)	CORRECTION (#)	RECOVERY (%)	RECOVERY (%)	CORE TIME (min/ft)	STRENGTH (tsf)
300.28	1	100	73	2.22	
LIMESTONE: Light gray, hard, very finely crystalline, thin to medium bedded, moderately weathered, with interbedded clay seams					
820.6					
Becomes thinly bedded					
-130					
296.05	2	100	89	1.3	
Becomes fractured Becomes thinly bedded SANDSTONE: Gray, hard, very fine grained, thickly bedded, slightly weathered, calcareous					
228.6					
-135					
289.50					225.4
LIMESTONE: Light gray, moderately hard, very finely crystalline, thickly bedded, slightly weathered					
211.5					
-140					
286.55	3	100	67	1	
Becomes banded, with 0.3" clay seam SANDSTONE: Gray, hard, very fine grained, banded to thinly bedded, slightly weathered 1.3" interbedded limestone 0.65" clay seam, becomes medium bedded					
284.68					
Boring terminated at 142.3 ft. Boring grouted to 142.32 ft.					
-145					

Color pictures of the cores Yes
 Cores will be stored for examination until
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
 BBS, form 138 (Rev. 8-99)



SOIL BORING LOG

Date 6/1/16

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY TC (SCI)

SECTION 1BR-1-1 LOCATION 38.6289833282, -90.1609112849, SEC. 13, TWP. 2N, RNG. 10W, Latitude , Longitude

COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. SN 082-W315
 Station 73+59 to 75+18.50
 BORING NO. RW-302
 Station 72+84
 Offset 67.0 ft LT
 Ground Surface Elev. 400.0 ft

DEPTH (ft)	BLU (ft)	UCS (tsf)	MOISTURE (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	After (ft)	RECOVERY (%)	RECOVERY (%)	CORE TIME (min/ft)	STRENGTH (tsf)
379.5				N/A	N/A	382.0	N/A	N/A	N/A				
1.2 ft. ASPHALTIC CONCRETE													
398.9													
FILL: Brown and gray, sandy clay, A-6													
397.0	2	0.9	14										
FILL: Brown, sand and crushed rock, A-1													
376.5	3	N/C	3										
SAND: Gray trace brown, A-3													
375.0	3	N/C	3										
SANDY LOAM: Gray, A-5 Began mud rotary at 25.0 ft.													
394.0	3	N/C	12										
SANDY LOAM: Brown, A-6													
391.5	3	N/C	10										
SAND: Brown, A-3													
372.0	2	N/C	7										
SAND: Gray trace brown, A-3													
370.0	4	N/C	10										
360.0	2	N/C	7										
Some silt													

Boring terminated at 40.0 ft.
 Boring grouted to 40.0 ft.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



USER NAME =	DESIGNED - MJP	REVISED
CHECKED - LNB	REVISED	
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 3/12/2018	CHECKED - MJP	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING - 14
 S.N. 082-0374 MLK BRIDGE APPROACH OVER RELOCATED IL RTE 3,
 VARIOUS RAILROADS, MISSOURI AVE. AND I-55SB/64WB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	220
CONTRACT NO. 76G39			ILLINOIS FED. AID PROJECT	



SOIL BORING LOG

Date 6/3-6/6/2016

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY BDG (SCI)

SECTION 1BR-1-1 LOCATION 38.6286208892, -90.1607292089, SEC. 13, TWP. 2N, RNG. 10W, Latitude, Longitude

COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	DEPTH (ft)	DIAMETER (in)	SOIL TYPE	UNCONFINED COMPRESSIVE STRENGTH (tsf)	FAILURE MODE	DEPT (ft)	DIAMETER (in)	SOIL TYPE	UNCONFINED COMPRESSIVE STRENGTH (tsf)	FAILURE MODE
SN 082-W315	73+59 to 75+18.50	RW-303	73+50	59.0 ft RT	428.0										
RIP-RAP with SILTY CLAY															
FILL: Brown, clay loam, A-6															
FILL: Brown, silty clay, A-5															
FILL: Brown, sand, A-3															
FILL: Brown, clay loam, A-6															
FILL: Brown, sandy loam, A-4															
FILL: Brown, sand, A-3															
FILL: Brown, clay, A-6															
FILL: Brown, silty clay loam, with brick, A-6															
FILL: Brown, sand, A-3															
With gravel and crushed rock															
With concrete fragments															
Surface Water Elev. N/A ft															
Stream Bed Elev. N/A ft															
Groundwater Elev.: First Encounter 384.5 ft															
Upon Completion N/A ft															
After N/A Hrs. N/A ft															
Clogging in split spoon due to concrete fragments															
FILL: Brown, sand, A-3 (continued)															
FILL: Gray, clay, A-7															
SILTY SAND: Gray, trace iron stains, A-4															
CLAY: Gray, A-7															
Unconfined Compression Strength Test Performed															
SANDY LOAM: Brown, A-4															
SAND: Brown, A-3															
Stop: 6/3/2016 at 3:00 pm															
Start: 6/6/2016 at 7:40 am															

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 6/3-6/6/2016

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY BDG (SCI)

SECTION 1BR-1-1 LOCATION 38.6286208892, -90.1607292089, SEC. 13, TWP. 2N, RNG. 10W, Latitude, Longitude

COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	DEPTH (ft)	DIAMETER (in)	SOIL TYPE	UNCONFINED COMPRESSIVE STRENGTH (tsf)	FAILURE MODE	DEPT (ft)	DIAMETER (in)	SOIL TYPE	UNCONFINED COMPRESSIVE STRENGTH (tsf)	FAILURE MODE
SN 082-W315	73+59 to 75+18.50	RW-303	73+50	59.0 ft RT	428.0										
SAND: Brown, A-3 (continued)															
Boring terminated at 50.0 ft.															
Boring grouted to 50 ft.															
Surface Water Elev. N/A ft															
Stream Bed Elev. N/A ft															
Groundwater Elev.: First Encounter 384.5 ft															
Upon Completion N/A ft															
After N/A Hrs. N/A ft															

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



USER NAME =	DESIGNED - MJP	REVISED
	CHECKED - LNB	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 3/12/2018	CHECKED - MJP	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING - 15
S.N. 082-0374 MLK BRIDGE APPROACH OVER RELOCATED IL RTE 3,
VARIOUS RAILROADS, MISSOURI AVE. AND I-55SB/64WB
SHEET NO. 577 OF 577 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	221
CONTRACT NO. 76G39				

Bench Mark MLK-6: Chiseled square centered on top of the flattop area of a concrete wingwall located at the northwest corner of tunnel
 SN 082-0013 for connector exit lane to 3rd Street and Eads Bridge, which runs under East MLK Bridge Approach in East St. Louis, Illinois. Elevation NAVD 88 = 428.576

Existing Structure: The existing retaining wall does not have a structure number. It was constructed in 1965 as part of the F.A.I. Route 70 project
 I-70-1761. It is a cast-in-place concrete wall on a footing with concrete piles.

The existing structure is to be removed and replaced.

The MLK Bridge Approach structure is to be completely closed to traffic during construction.

No salvage.

CURVE C3 DATA

P.I. Sta. = 125+66.38
 $\Delta = 21^\circ 41' 42''$ (RT)
 $D = 2^\circ 44' 22''$
 $R = 2,091.61'$
 $T = 400.79'$
 $L = 791.99'$
 $E = 38.05'$
 $e = N/A$
 $T.R. = N/A$
 $S.E. Run = N/A$
 $P.C. Sta. = 121+65.59$
 $P.T. Sta. = 129+57.58$

CURVE 21 DATA

P.I. Sta. = 74+81.50
 $\Delta = 37^\circ 27' 17''$ (LT)
 $D = 5^\circ 23' 00''$
 $R = 1,064.32'$
 $T = 360.82'$
 $L = 695.75'$
 $E = 59.50'$
 $e = 4.7'$
 $T.R. = 31'$
 $S.E. Run = 99'$
 $P.C. Sta. = 71+20.68$
 $P.T. Sta. = 78+16.44$

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design
 Specifications, 7th Edition with
 2015 and 2016 Interims

DESIGN STRESSES

FIELD UNITS

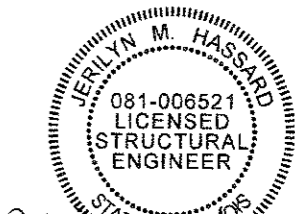
$f'_c = 4,000$ psi
 $f_y = 60,000$ psi (reinforcement)

PRECAST UNITS

$f'_c = 4,000$ psi (precast face panels)

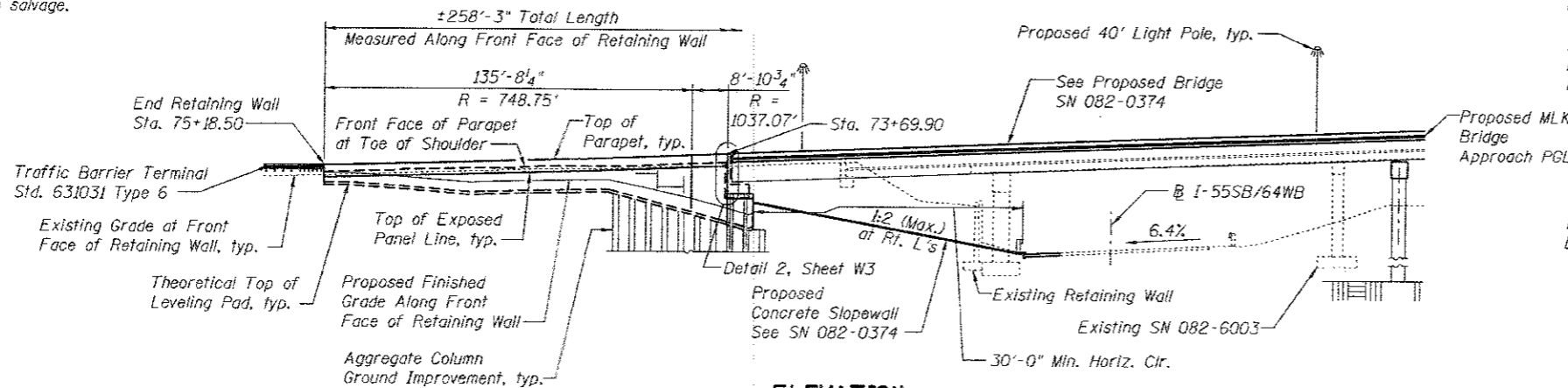
SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
 Design Spectral Acceleration at 1.0 sec. (S_{a1}) = 0.24 g
 Design Spectral Acceleration at 0.2 sec. (S_{a5}) = 0.54 g
 Soil Site Class = D



APPROVED
 For Structural Adequacy Only
J. Carl Pungy
 Engineer of Bridges & Structures

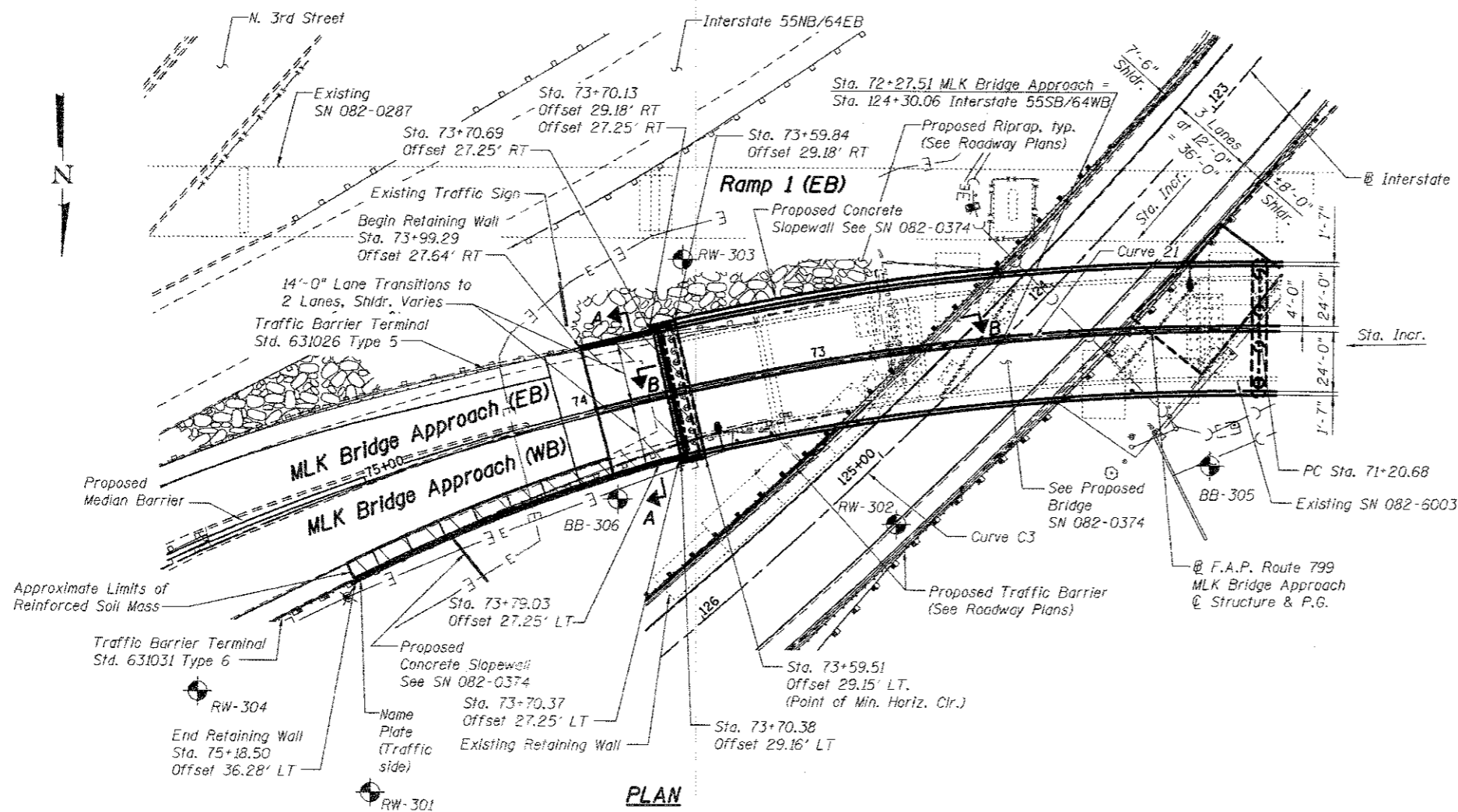
Jerilyn M. Hassard
 JERILYN M. HASSARD
 EDWARDSVILLE, ILLINOIS
 ILLINOIS LICENSED STRUCTURAL
 ENGINEER NO. 081-006521
 EXPIRES 11/30/2018



ELEVATION

(Looking South)

See sheet W3 for proposed retaining wall details.



PLAN

STATION 75+18.50
 BUILT 20__ BY
 STATE OF ILLINOIS
 F.A.P. RT. 799 SEC. 1BR-1-1
 LOADING HL-93
 STRUCTURE NO. 082-W315

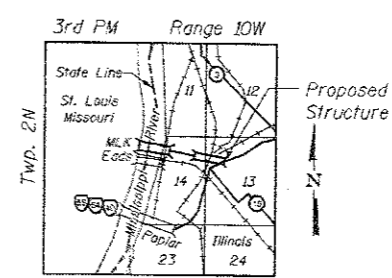
NAME PLATE

See Std. 515001

LEGEND

- Reinforced Soil Mass
- MSE Wall Panels
- Soil Borings

Notes:
 Wall stations and offsets are given to the front face (FF)
 of the wall and are measured from the baseline of MLK
 Bridge Approach.
 For Section A-A, see sheet W4.
 For Section B-B, see sheet W5.
 Existing utilities shown will be relocated to avoid any
 conflicts during construction.
 For Ground Improvement Performance Requirements,
 see sheet W2.



LOCATION SKETCH

**RETAINING WALL AT
 MLK BRIDGE APPROACH
 F.A.P. ROUTE 799 SEC. 1BR-1-1
 ST. CLAIR COUNTY
 STATION 73+99.29 (EB) TO 75+18.50 (WB)
 STRUCTURE NO. 082-W315**

	USER NAME =	DESIGNED - YSS	REVISOR	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN S.N. 082-W315 RETAINING WALL AT MLK BRIDGE APPROACH	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - JUB	REVISOR			799	1BR-1-1	ST. CLAIR	315	222
	PLOT DATE = 02/05/2018	DRAWN - AEC	REVISOR							CONTRACT NO. 76639
		CHECKED - JMH	REVISOR							ILLINOIS FED. AID PROJECT

INDEX OF SHEETS

- W1 General Plan
- W2 General Notes
- W3 Unfolded Wall Elevation
- W4 MSE Details - 1
- W5 MSE Details - 2
- W6 Parapet and Anchorage Slab
- W7 Miscellaneous Details
- W8 Retaining Wall Parapet Slipforming Option
- W9 Soil Boring - 1
- W10 Soil Boring - 2
- W11 Soil Boring - 3
- W12 Soil Boring - 4
- W13 Soil Boring - 5
- W14 Soil Boring - 6
- W15 Soil Boring - 7
- W16 Soil Boring - 8

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Wall stations and offsets are given to the front face (FF) of the wall and are measured from baseline of the MLK Bridge Approach structure and centerline of F.A.P. Route 799, except as noted. The FF of the wall is to be considered edge of panel.
3. See Special Provision for Aggregate Column Ground Improvement for design and construction requirements.
4. For existing soils laboratory data, see the Geotechnical Investigation Laboratory Data Special Provision.
5. The piles, with pile sleeves, for SN 082-0374 are located within the reinforced soil mass and will be driven prior to the placement of the reinforced soil mass. See SN 082-0374 plans for additional pile requirements.
6. Wall system supplier shall coordinate the proposed wall configuration with the Aggregate Column Ground Improvement subcontractor.
7. Wall construction shall not begin until after ground improvement has been completed in the area of the new wall.
8. The MSE wall supplier's internal stability design shall account for the seismic loading. For Seismic Data, see sheet W1.

MSE WALL SETTLEMENT

1. The Top of Exposed Panel Elevations shown on the plans are final elevations after any settlement.
2. The MSE wall supplier is alerted to the fact that outside the ground improvement limits, one (1) inch of settlement is anticipated. The wall system supplier shall take appropriate measures to accommodate this settlement in the wall design.
3. The MSE wall supplier is alerted to the fact that within the ground improvement limits, the wall settlement will be determined by the ground improvement design. The wall system supplier shall coordinate with the Aggregate Column Ground Improvement subcontractor to accommodate this settlement in the wall design.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	1,639
Concrete Superstructure	Cu. Yd.	61.3
Protective Coat	Sq. Yd.	138
Reinforcement Bars, Epoxy Coated	Pound	9,450
Name Plates	Each	1
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	2,313
Aggregate Column Ground Improvement	L. Sum	1

GROUND IMPROVEMENT PERFORMANCE REQUIREMENTS

1. Minimum factor of safety for global slope stability shall be 1.5 for both the permanent and temporary condition.
2. Allowable bearing pressure (with F.S.) shall be equal to or greater than the equivalent uniform service bearing pressure of 4300 psf.

Minimum factor of safety against equivalent uniform service bearing pressure shall be 2.0 if a load test is performed.

Minimum factor of safety against equivalent uniform service bearing pressure shall be 2.5 if a load test is not performed.

3. Minimum coefficient of friction at the base of the wall shall be 0.624 for sliding.
4. Total settlement measured at the theoretical top of leveling pad shall not exceed 1.0 inch.
5. Total settlement measured on the pavement shall not exceed 1.0 inch.
6. Differential settlement measured along the theoretical top of leveling pad shall not exceed 1/100.
7. The assumed structure life for settlement computations shall be 75 years.
8. Contractor's verification program shall include monitoring points or other instrumentation to demonstrate compliance with the stated performance requirements.
9. The Shop Drawings and construction procedures submittal shall indicate the sequence of construction within the limits of Aggregate Column Ground Improvement. The aggregate column installation shall be coordinated with utility removal, structure removals, proposed utility installation, and bridge pile driving.
10. Aggregate columns shall be installed before the bridge piles are driven; however, the piles shall not be driven through the aggregate of an installed column. The aggregate column layout shall provide clearance for the bridge piles.
11. Primary consolidation of the soil within the depth of the ACGI to be at least 90 percent complete when the bridge piles are to be driven. Any required waiting periods shall be coordinated with the bridge construction schedule.



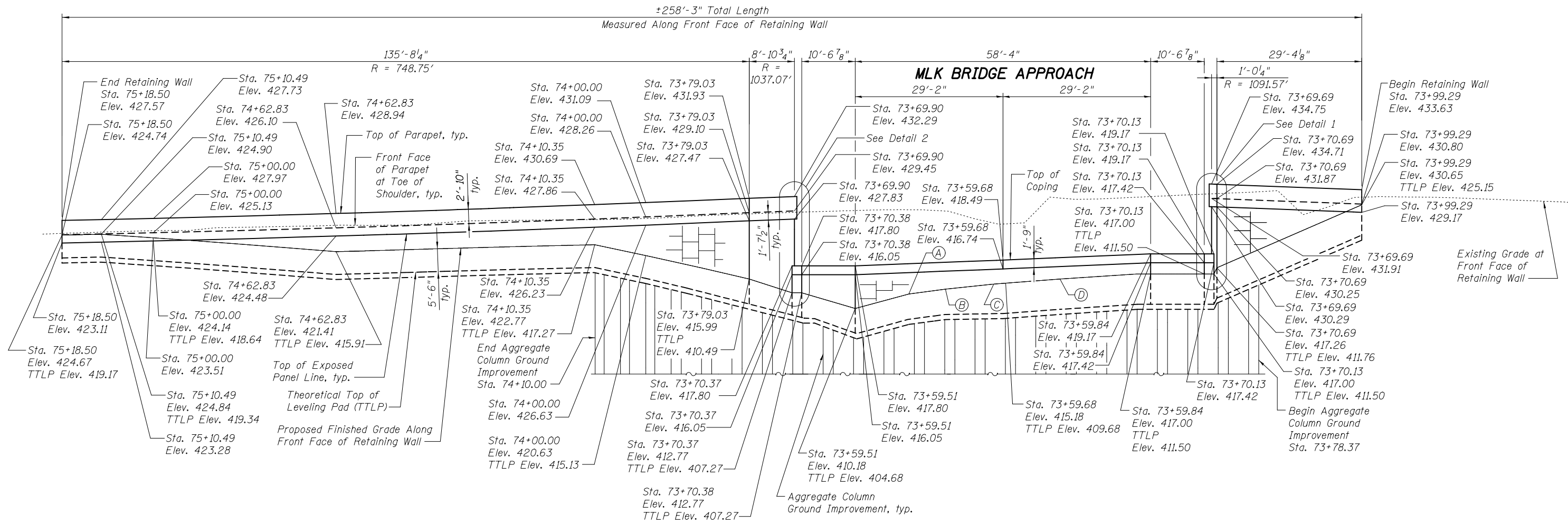
USER NAME =	DESIGNED - YSS	REVISED
	CHECKED - ZJB	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 02/06/2018	CHECKED - JMH	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

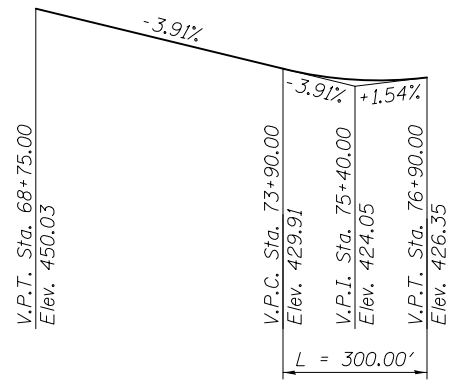
**GENERAL NOTES
S.N. 082-W315 RETAINING WALL AT MLK BRIDGE APPROACH**

SHEET NO. W2 OF W16 SHEETS

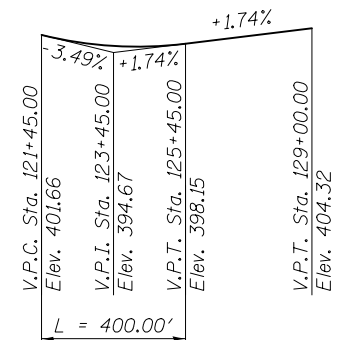
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	223
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76G39	



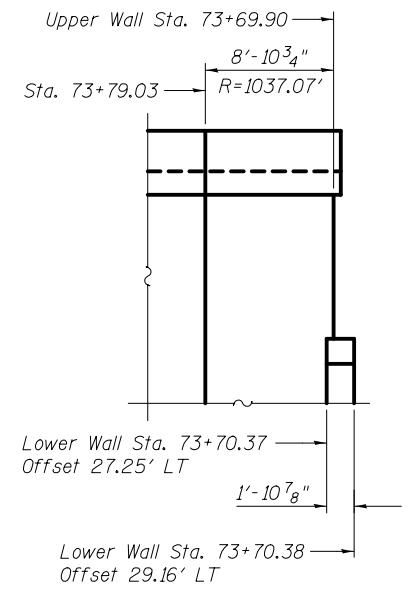
UNFOLDED ELEVATION VIEW



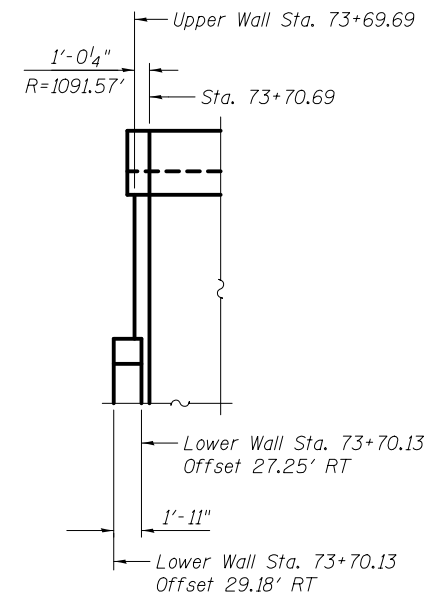
PROFILE GRADE
(Along MLK Bridge Approach)



PROFILE GRADE
(Along I-55SB/64WB)
(Original Design)



DETAIL 2



DETAIL 1

- (A) Sta. 73+59.57
Elev. 413.04
TTLP Elev. 407.54
- (B) Sta. 73+59.62
Elev. 414.00
TTLP Elev. 408.50
- (C) Sta. 73+59.67
Elev. 415.00
TTLP Elev. 409.50
- (D) Sta. 73+59.74
Elev. 416.00
TTLP Elev. 410.50

Notes:
Abutment is wider than the typical roadway section. See Details 1 and 2 for M.S.E. width transition.
See sheet W2 for Ground Improvement Performance Requirements.



USER NAME =	DESIGNED - ZJB	REVISED
PLOT SCALE =	CHECKED - YSS	REVISED
PLOT DATE = 02/06/2018	DRAWN - AEC	REVISED
	CHECKED - ZJB	REVISED

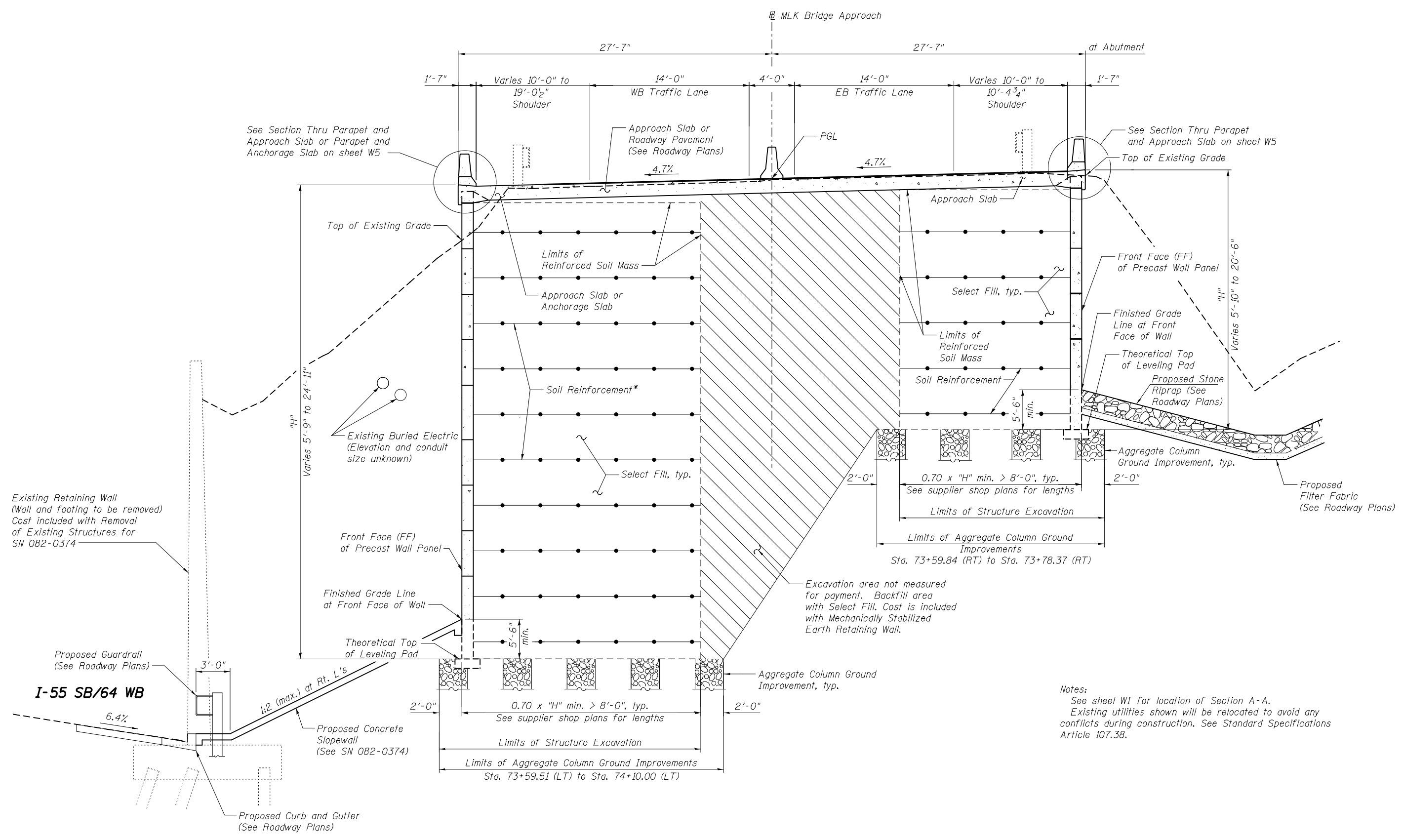
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

UNFOLDED WALL ELEVATION
S.N.082-W315 RETAINING WALL AT MLK BRIDGE APPROACH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	224
CONTRACT NO. 76G39				

SHEET NO. W3 OF W16 SHEETS

ILLINOIS FED. AID PROJECT



Notes:
 See sheet W1 for location of Section A-A.
 Existing utilities shown will be relocated to avoid any conflicts during construction. See Standard Specifications Article 107.38.

* The M.S.E. wall supplier's internal stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.5 kips/ft. of wall.

SECTION A-A
 (Typical Wall Section at Approach Slab)



USER NAME =	DESIGNED - YSS	REVISED
	CHECKED - ZJB	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 02/06/2018	CHECKED - YSS	REVISED

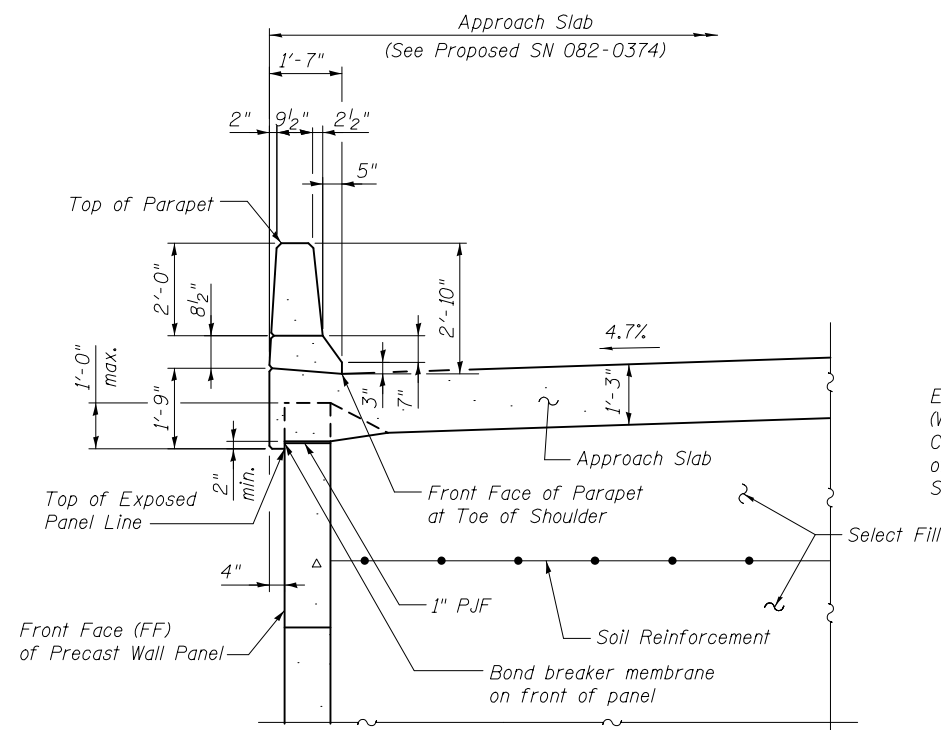
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MSE DETAILS - 1
 S.N. 082-W315 RETAINING WALL AT MLK BRIDGE APPROACH

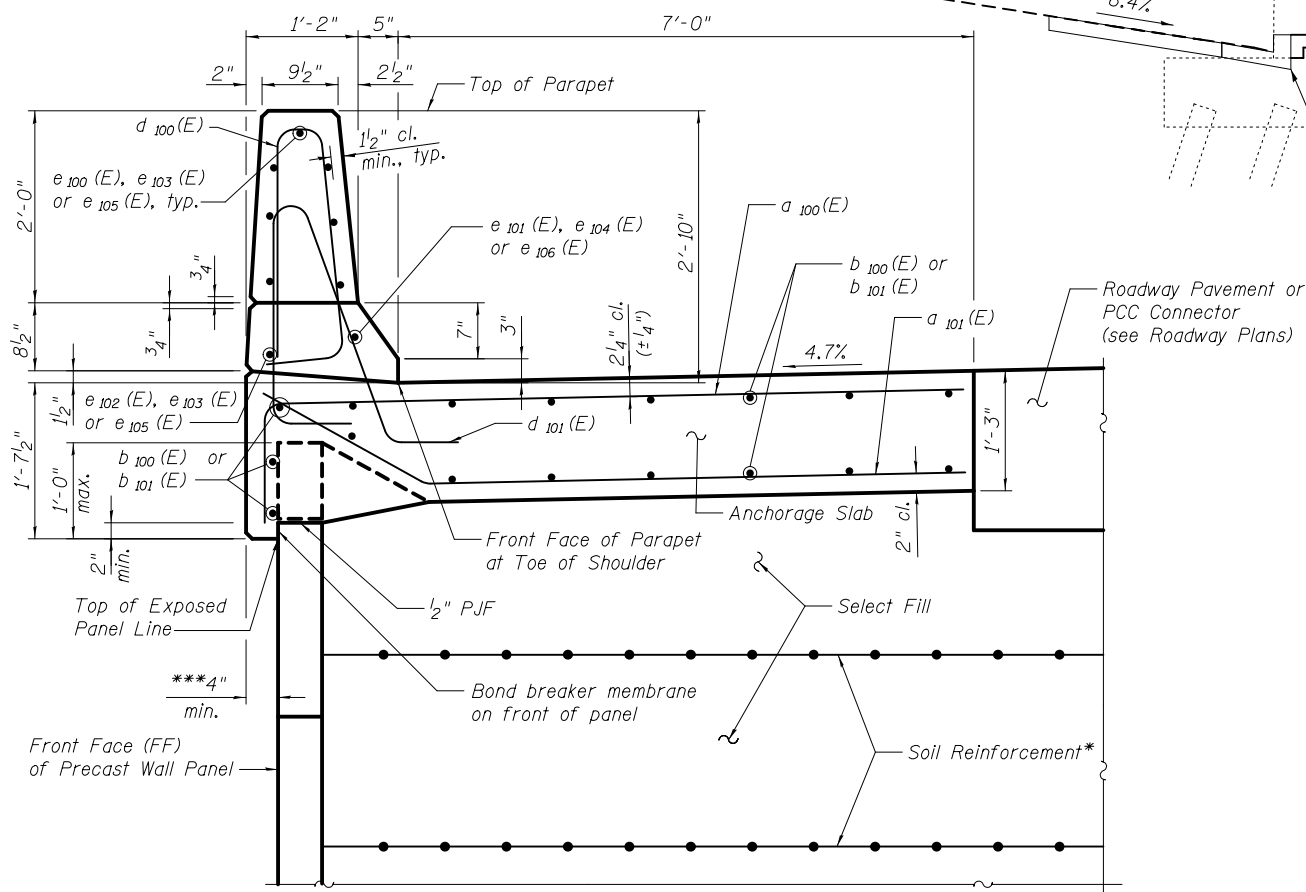
SHEET NO. W4 OF W16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	225
CONTRACT NO. 76G39				

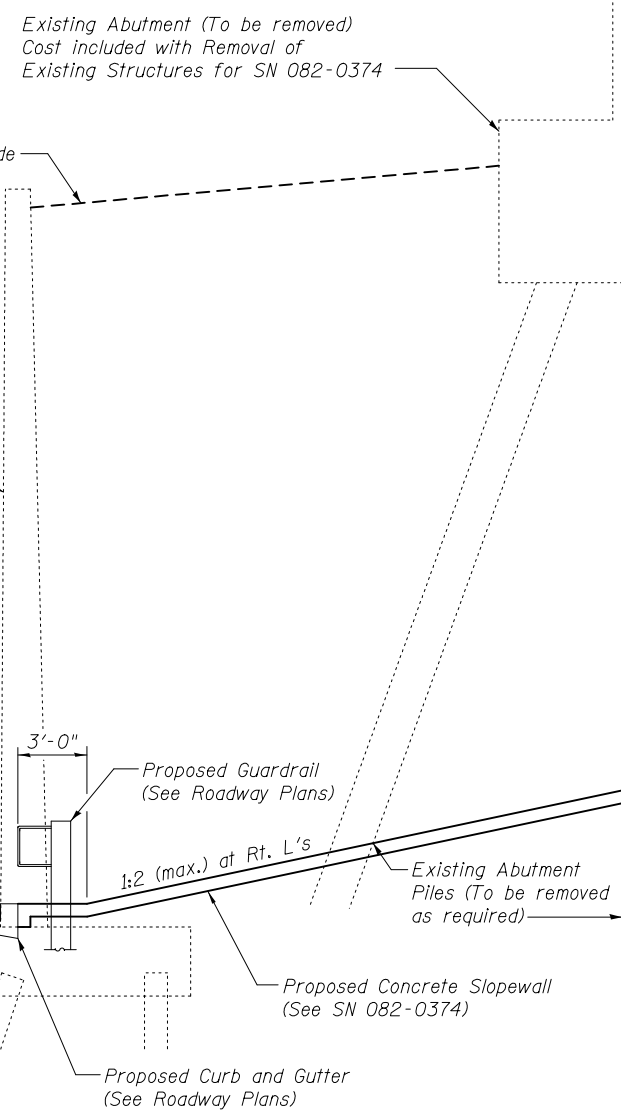
ILLINOIS FED. AID PROJECT



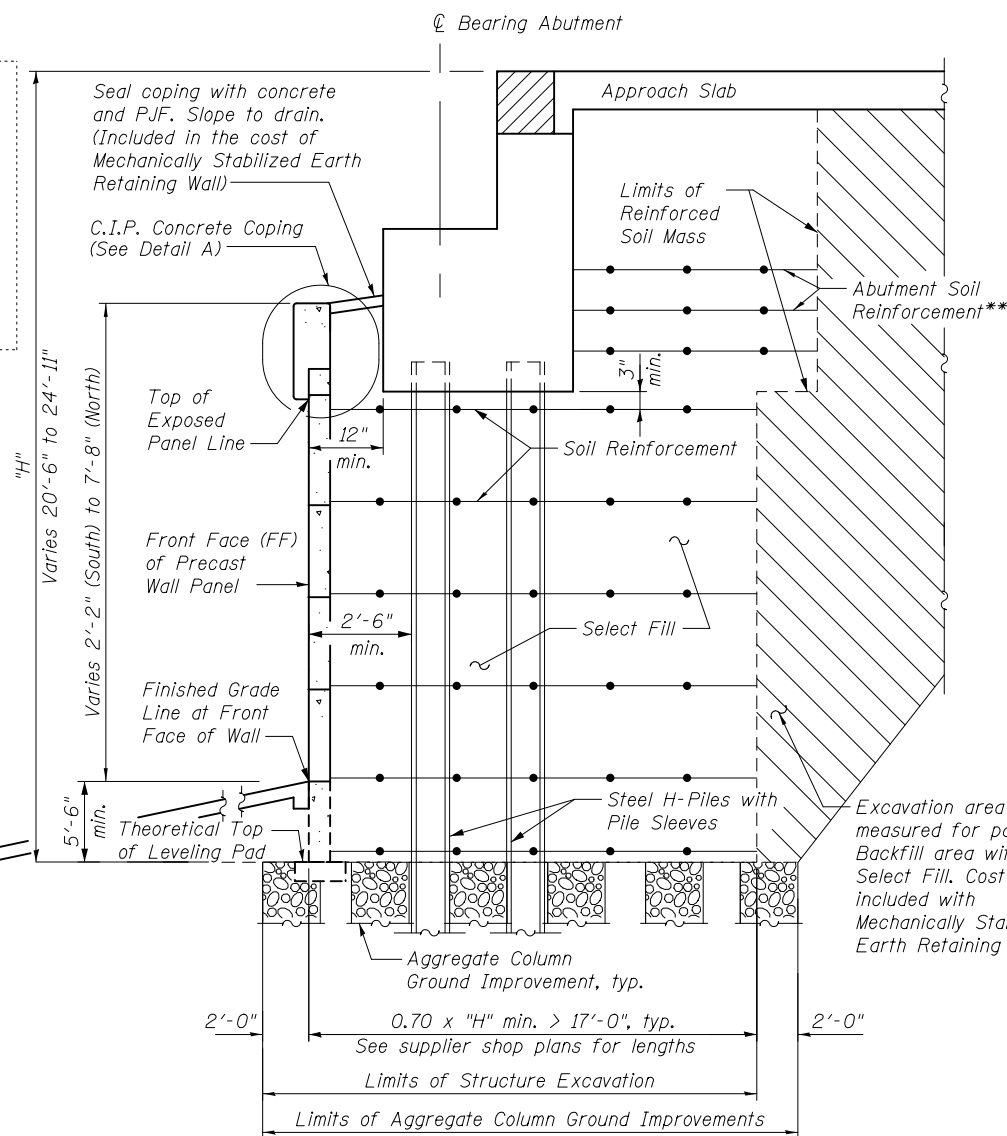
SECTION THRU PARAPET AND APPROACH SLAB
(WB Shown, EB Similar)



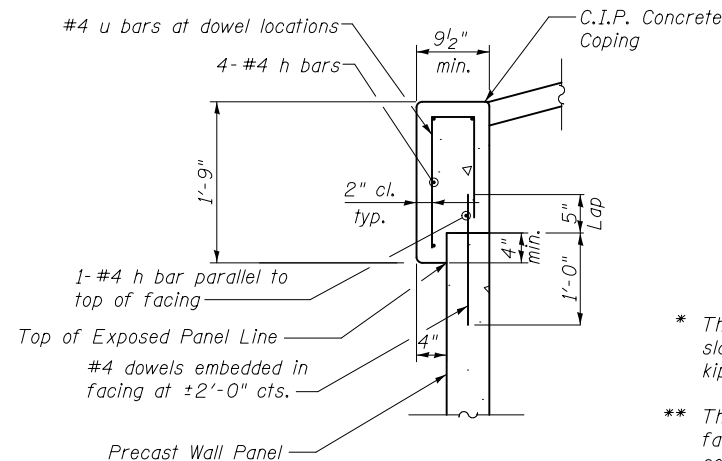
SECTION THRU PARAPET AND ANCHORAGE SLAB



I-55 SB/64 WB



SECTION B-B
(Typical Wall Section Thru Abutment)



DETAIL A
C.I.P. CONCRETE COPING

Notes:
See Proposed Structure SN 082-0374 Plans for abutment, approach slab and slopewall details.
See sheet W1 for location of Section B-B.
Concrete and reinforcing steel for C.I.P. Concrete Coping are included in the cost of Mechanically Stabilized Earth Retaining Wall.

* The M.S.E. wall supplier's internal stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.5 kips/ft of wall.

** The M.S.E. wall supplier shall design the abutment soil reinforcement to resist a factored horizontal force of 7.4 kips/ft of abutment. Cost shall be included with the cost of "Mechanically Stabilized Earth Retaining Wall".

*** Contractor shall detail overhang width along wall radius to provide minimum dimension required.



USER NAME =	DESIGNED - YSS	REVISED
	CHECKED - ZJB	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 02/06/2018	CHECKED - YSS	REVISED

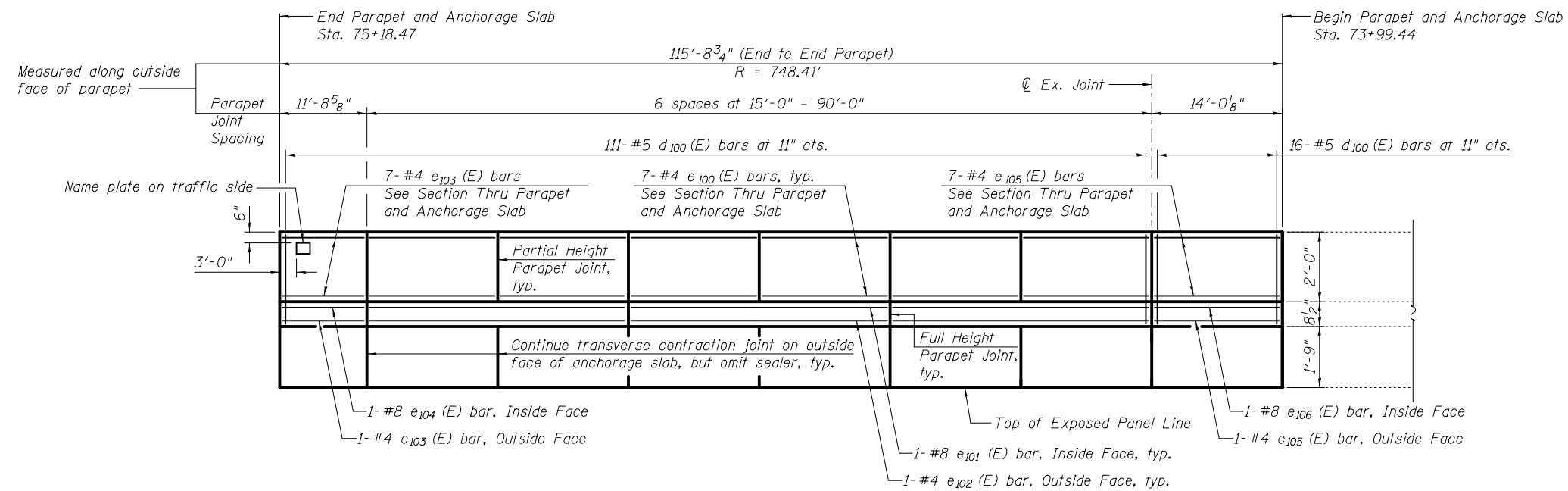
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MSE DETAILS - 2
S.N.082-W315 RETAINING WALL AT MLK BRIDGE APPROACH

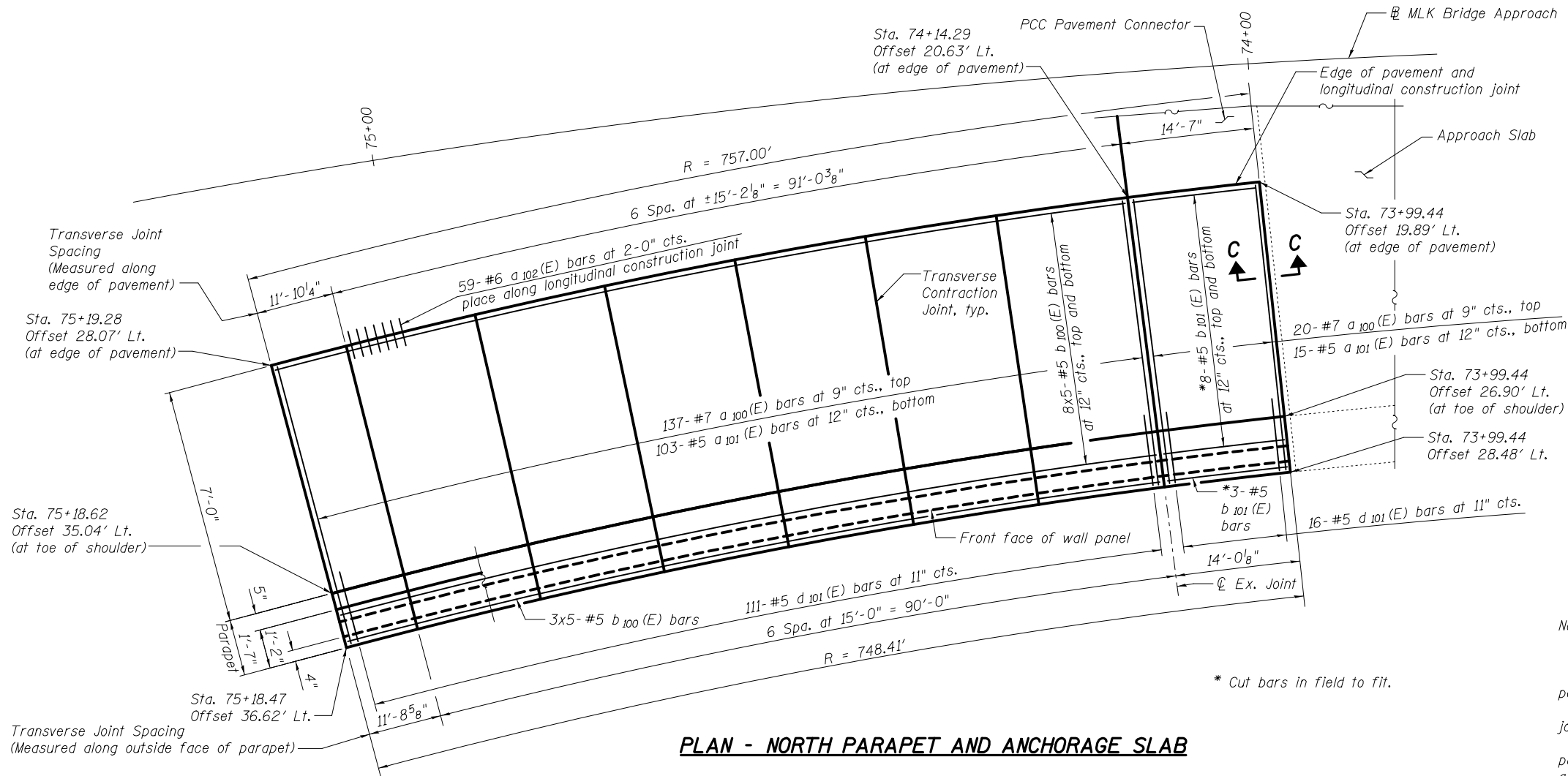
SHEET NO. W5 OF W16 SHEETS

F.A.P. RT.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	226
CONTRACT NO. 76G39				

ILLINOIS FED. AID PROJECT



OUTSIDE ELEVATION OF NORTH PARAPET



Notes:
 For Section Thru Parapet and Anchorage Slab, see sheet W5.
 For Section C-C and Bill of Material, see sheet W7.
 Bars indicated thus 8x5-#5 etc. indicates 8 lines of bars with 5 lengths per line.
 Joints in the adjacent pavement shall be aligned with the anchorage slab joints.
 Stations and offsets on this sheet are given to the outside face of the parapet and are measured from the baseline of MLK Bridge Approach, except as noted.



USER NAME =	DESIGNED - YSS	REVISED
	CHECKED - ZJB	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 02/06/2018	CHECKED - YSS	REVISED

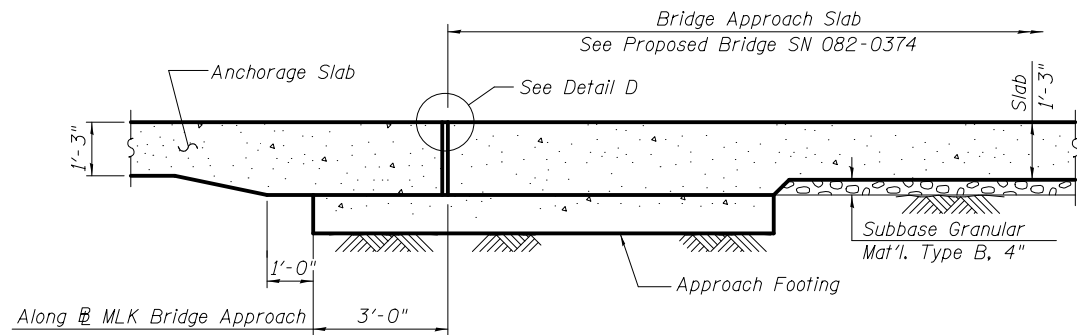
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PARAPET AND ANCHORAGE SLAB
 S.N.082-W315 RETAINING WALL AT MLK BRIDGE APPROACH

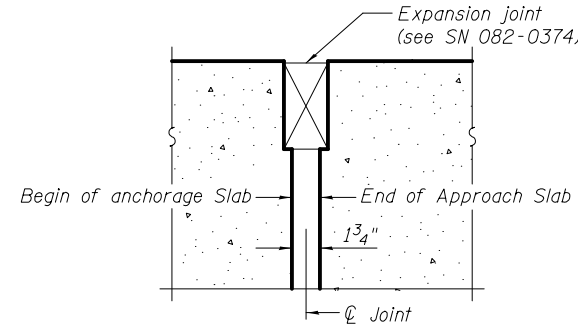
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	227
CONTRACT NO. 76G39				

SHEET NO. W6 OF W16 SHEETS

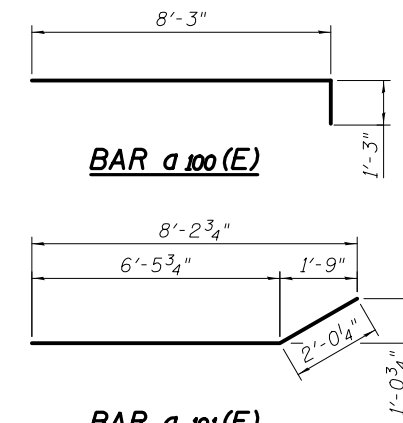
ILLINOIS FED. AID PROJECT



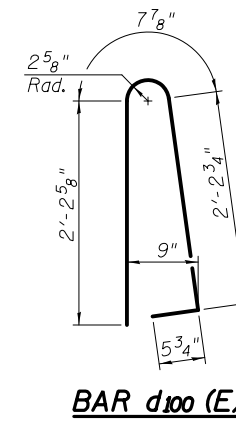
SECTION C-C



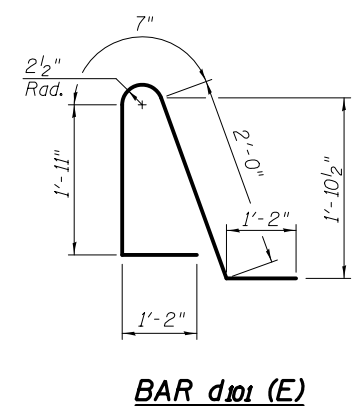
DETAIL D



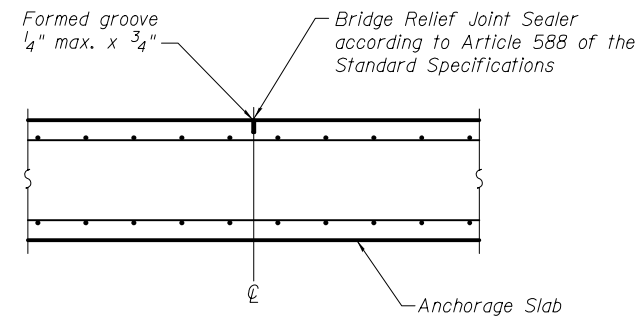
BAR a101(E)



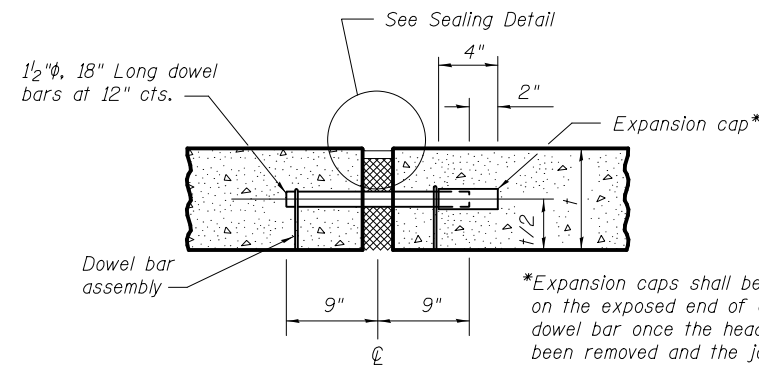
BAR d100(E)



BAR d101(E)

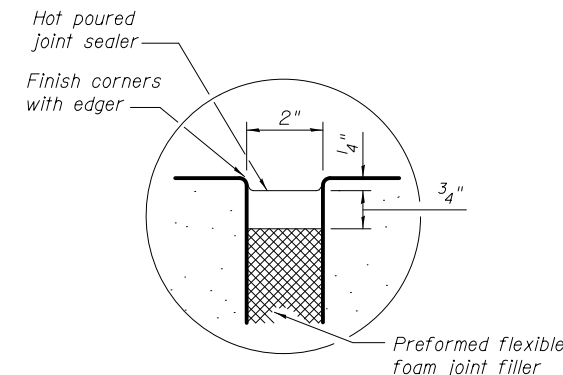


TRANSVERSE CONTRACTION JOINT



ANCHORAGE SLAB EXPANSION JOINT

Expansion joint and dowel bars included in the cost of Concrete Superstructure.



SEALING DETAIL

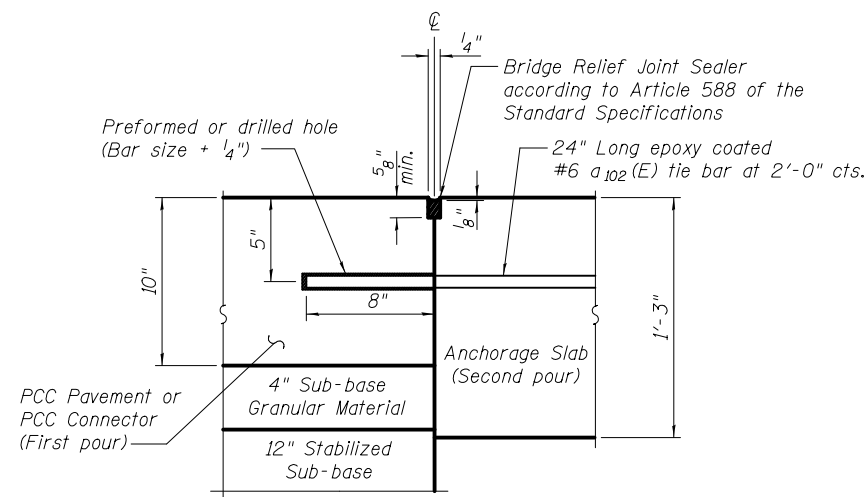
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a100 (E)	157	#7	9'-6"	U
a101 (E)	118	#5	8'-6"	U
a102 (E)	59	#6	2'-0"	U
b100 (E)	95	#5	23'-6"	U
b101 (E)	19	#5	14'-4"	U
d100 (E)	127	#5	5'-7"	U
d101 (E)	127	#5	6'-10"	U
e100 (E)	42	#4	14'-9"	U
e101 (E)	3	#8	29'-9"	U
e102 (E)	3	#4	29'-9"	U
e103 (E)	8	#4	11'-5"	U
e104 (E)	1	#8	11'-5"	U
e105 (E)	8	#4	13'-9"	U
e106 (E)	1	#8	13'-9"	U
Reinforcement Bars, Epoxy Coated			Pound	9,450
Concrete Superstructure			Cu. Yd.	61.3

**For anchorage slab and north parapet thereon

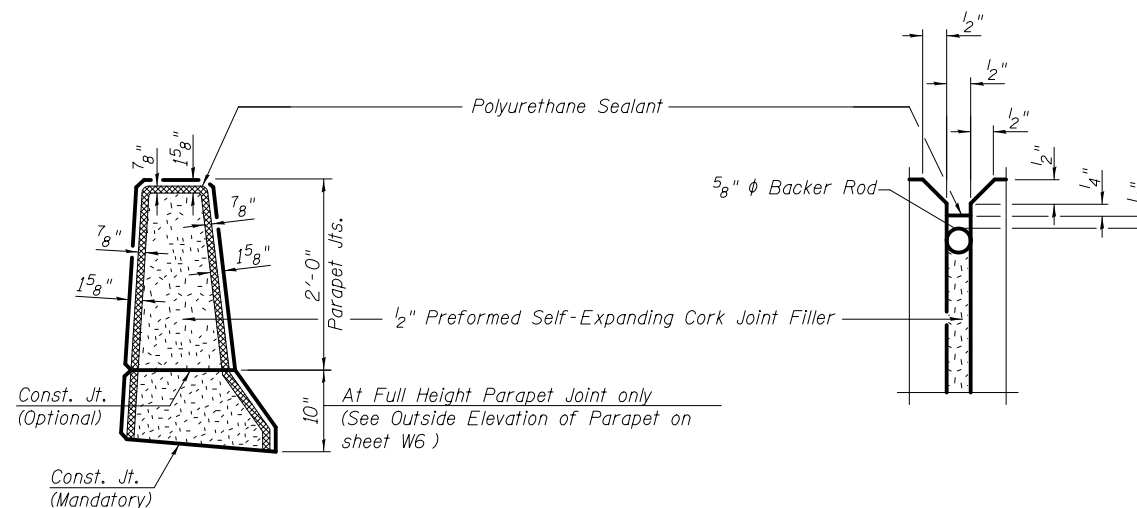
MIN. BAR LAP

#5 bars - 3'-6"



Notes:
The Contractor may substitute at his option, formed in place tie bars provided the bar length is increased to 30" and the tie bar is centered across the joint.
Preformed or drilled hole shall be in the first pour.

**LONGITUDINAL CONSTRUCTION JOINT
GROUTED-IN-PLACE TIE BAR**



PARAPET JOINT DETAILS

Notes:
For location of Section C-C, see sheet W6.
The Polyurethane Sealant shall be non-staining gray one component non-sag elastomeric gun grade meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25. Use T with a 5/8" backer rod. Cost included with Concrete Superstructure.
The 1/2" Preformed Self-Expanding Cork Joint Filler shall be according to Article 1051.07 of the Standard Specifications. Cost included with Concrete Superstructure.



USER NAME =	DESIGNED - YSS	REVISED
	CHECKED - ZJB	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 02/06/2018	CHECKED - YSS	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS
S.N. 082-W315 RETAINING WALL AT MLK BRIDGE APPROACH

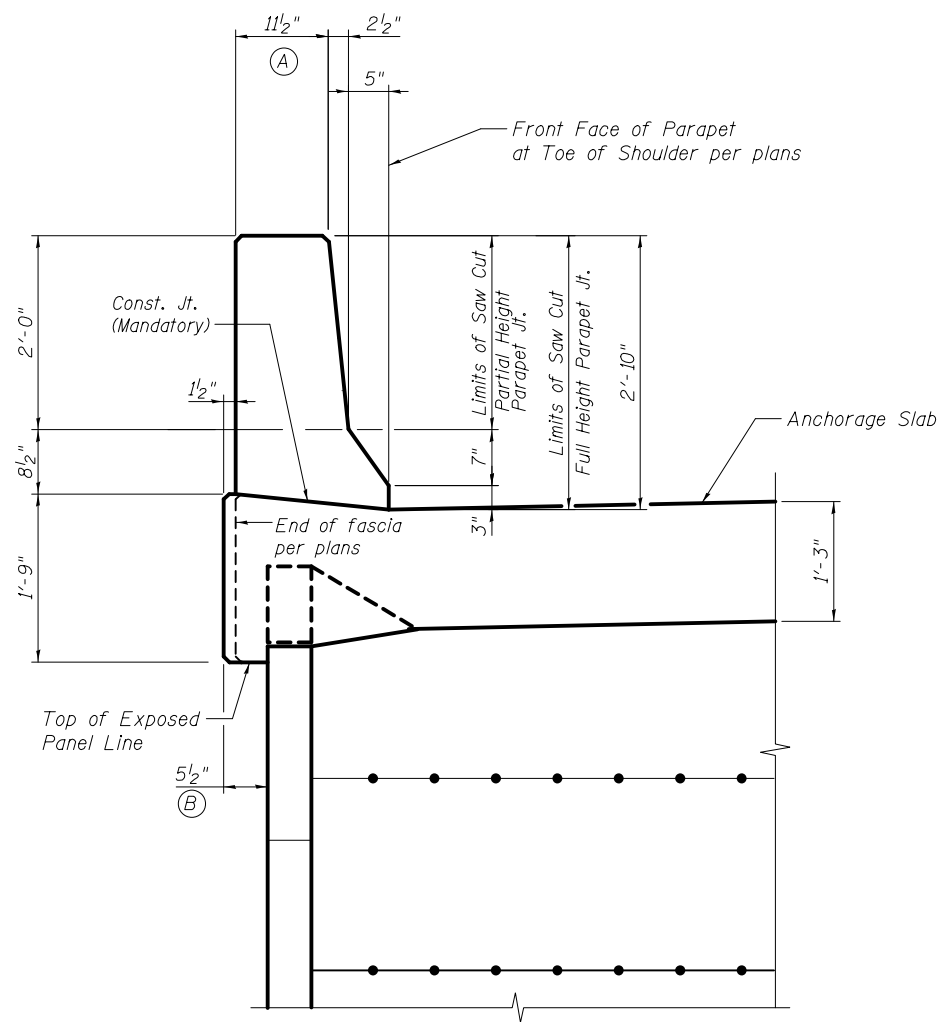
SHEET NO. W7 OF W16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	228
CONTRACT NO. 76G39				

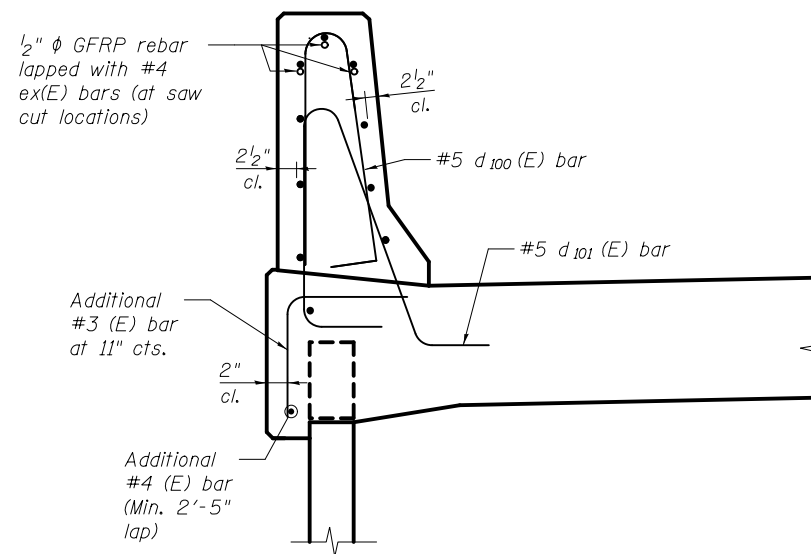
ILLINOIS FED. AID PROJECT

GENERAL NOTES

All dimensions shall remain the same as shown on MSE wall details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. Full thickness saw cut at all joint locations in lieu of cork joint filler.

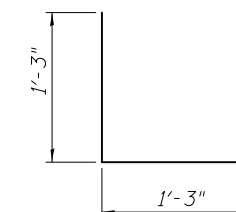


SECTION THRU PARAPET AND ANCHORAGE SLAB

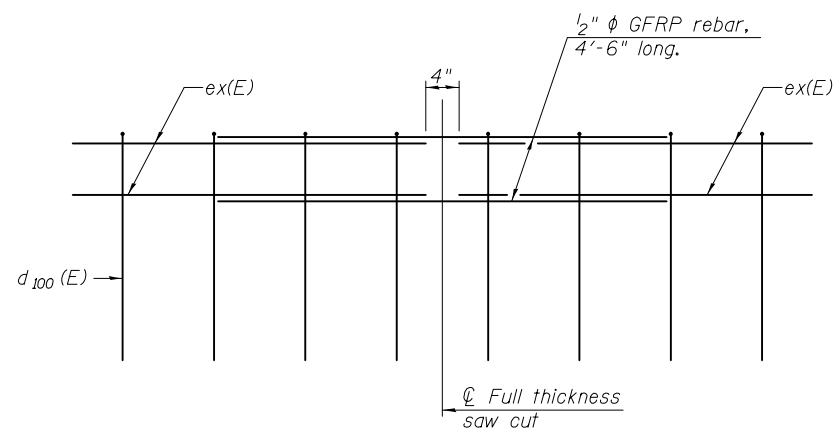


SECTION

(Showing reinforcement clearances for slip forming and additional reinforcement bars)



#3 (E) BAR



GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section at each parapet joint location.)



USER NAME =	DESIGNED - YSS	REVISED
	CHECKED - ZJB	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 02/06/2018	CHECKED - YSS	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL PARAPET SLIPFORMING OPTION
S.N. 082-W315 RETAINING WALL AT MLK BRIDGE APPROACH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	229
CONTRACT NO. 76G39				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Date 5/25/16

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY BDG (SCI)
 SECTION 1BR-1-1 LOCATION 38.6289209382, -90.1598692515, SEC. 13, TWP. 2N, RNG. 10W,
 Latitude, Longitude
 COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	DEPTH (ft)	DIAMETER (ft)	UNIT WEIGHT (tsf)	MOISTURE (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	DEPTH (ft)	DIAMETER (ft)	UNIT WEIGHT (tsf)	MOISTURE (%)
SN 082-W315	73+59 to 75+18.50	RW-304	75+98	39.0 ft LT	422.0					N/A	N/A	N/A	N/A	N/A	N/A				
FILL: Brown, silty clay, trace fine sand, A-6																			
SILTY CLAY: Brown, A-6 (continued) 401.5																			
SILTY LOAM: Brown, A-5 400.5																			
SILTY SAND: Brown, A-5 399.0																			
FILL: Brown, silty loam, A-4 419.0																			
CLAY: Gray, trace iron nodules, A-6																			
Unconfined Compression Strength Test Performed -25																			
FILL: Dark brown, silty clay, trace gravel and brick fragments, A-6 416.5																			
With iron stains																			
FILL: Gray, silty loam, A-6 414.0																			
SAND: Brown, A-3 394.0																			
Unconfined Compression Strength Test Performed -10																			
FILL: Brown and red, gravel and sand, with brick fragments, A-2 411.0																			
END OF DAY: 5/25 START OF DAY: 5/26 (Delayed due to lightning 2.25 hrs)																			
FILL: Brown, sand, A-3 409.5																			
Becomes gray																			
FILL: Black and dark brown, crushed asphaltic, A-3 407.8																			
CLAY: Gray, with sand, A-7 405.5																			
Unconfined Compression Strength Test Performed 404.0																			
SILTY CLAY: Brown, A-6																			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 5/25/16

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY BDG (SCI)
 SECTION 1BR-1-1 LOCATION 38.6289209382, -90.1598692515, SEC. 13, TWP. 2N, RNG. 10W,
 Latitude, Longitude
 COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	DEPTH (ft)	DIAMETER (ft)	UNIT WEIGHT (tsf)	MOISTURE (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	DEPTH (ft)	DIAMETER (ft)	UNIT WEIGHT (tsf)	MOISTURE (%)
SN 082-W315	73+59 to 75+18.50	RW-304	75+98	39.0 ft LT	422.0					N/A	N/A	N/A	N/A	N/A	N/A				
SAND: Brown, A-3 (continued)																			
Boring terminated at 49.5 ft. 372.5																			
Boring grouted to 49.5 ft.																			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



USER NAME =	DESIGNED - YSS	REVISED
	CHECKED - ZJB	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 02/06/2018	CHECKED - JMH	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING - 3
 S.N. 082-W315 RETAINING WALL AT MLK BRIDGE APPROACH

SHEET NO. W11 OF W16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	232
CONTRACT NO. 76G39				

ILLINOIS FED. AID PROJECT

SOIL BORING LOG

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY TC (SCI)

SECTION 1BR-1-1 LOCATION 38.6290280807, -90.1613723778, SEC. 13, TWP. 2N, RNG. 10W, Latitude, Longitude

COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-6003(E), 082-0374(P)	D E P T H	B L O S S	U C S	M O I S T	Surface Water Elev. N/A ft	D E P T H	B L O S S	U C S	M O I S T
Station 73+59 to 75+18.50	(ft)	(/6")	(tsf)	(%)	Stream Bed Elev. N/A ft	(ft)	(/6")	(tsf)	(%)
BORING NO. BB-305					Groundwater Elev.: First Encounter 377.5 ft				
Station 71+43					Upon Completion N/A ft				
Offset 55.0 ft LT					After N/A Hrs. N/A ft				
Ground Surface Elev. 415.0 ft									

CRUSHED LIMESTONE: Gray, 3-inch minus	414.0				SANDY LOAM: Brown, A-4 (continued)				
FILL: Black, clay, with cinders and brick, limestone gravel, A-6		4				2			
		9	>4.5			4	N/C		
		7	P			5			
Limestone gravel in shoe, no recovery		2				1			
		3				4	N/C		
		-5				5			
		1				3			
		1	0.5			5	N/C		
		1	P			6			
CLAY: Gray, A-7	407.0								
		1	1.5			5	N/C		
		1	P		CLAY: Brown, trace fine sand, A-6	5			
		-10	0.9			9	0.3		
			S/20				P		
Becomes brownish-gray		1	1.6		SANDY LOAM: Brown, A-4				
		2	S/20						
		2							
		1	0.8			6			
		1	S/20			9	N/C		
		-15				11			
SAND: Brown, A-3	399.5								
		3			SAND: Brown, A-3				
		5	N/C						
		7							
CLAY: Brown, A-6	396.5								
SANDY LOAM: Brown, A-4	396.0		0.2		Becomes gray	3			
		2	S/20		Began mud rotary at 40.0 ft..	5	N/C		
		-20				13			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

SOIL BORING LOG

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY TC (SCI)

SECTION 1BR-1-1 LOCATION 38.6290280807, -90.1613723778, SEC. 13, TWP. 2N, RNG. 10W, Latitude, Longitude

COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-6003(E), 082-0374(P)	D E P T H	B L O S S	U C S	M O I S T	Surface Water Elev. N/A ft	D E P T H	B L O S S	U C S	M O I S T
Station 73+59 to 75+18.50	(ft)	(/6")	(tsf)	(%)	Stream Bed Elev. N/A ft	(ft)	(/6")	(tsf)	(%)
BORING NO. BB-305					Groundwater Elev.: First Encounter 377.5 ft				
Station 71+43					Upon Completion N/A ft				
Offset 55.0 ft LT					After N/A Hrs. N/A ft				
Ground Surface Elev. 415.0 ft									

SAND: Brown, A-3 (continued)					SAND: Gray, A-3 (continued)				
		12				14			
		12	N/C			12	N/C		
		-45				10			
						-65			
SANDY LOAM: Gray, A-4	368.0				GRAVEL: Gray, A-1				
		10			SAND: Gray, A-3				
		18	N/C			11			
		-50				16	N/C		
					GRAVEL: Gray, A-1	17			
						-70			
SAND: Gray, A-3	363.0								
		9			SAND: Gray, A-3				
		14	N/C			14			
		-55				16	N/C		
						23			
						-75			
		9			SANDY LOAM: Gray, A-4				
		8	N/C			11			
		-60			SAND: Gray, A-3	15			
						17	N/C		
						-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

SOIL BORING LOG

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY TC (SCI)

SECTION 1BR-1-1 LOCATION 38.6290280807, -90.1613723778, SEC. 13, TWP. 2N, RNG. 10W, Latitude, Longitude

COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-6003(E), 082-0374(P)
Station 73+59 to 75+18.50

BORING NO. BB-305
Station 71+43
Offset 55.0 ft LT
Ground Surface Elev. 415.0 ft

DEPTH (ft)	DIAMETER (ft)	SOIL TYPE	MOISTURE (%)	UNCONSOLIDATED	TEST TYPE
0		GRAVEL: Gray, A-1 (continued)			
13.9	N/C	SAND: Brownish-gray, trace gravel, A-3			
20.22	N/C	Coarse sand and rock fragments			
14.15	N/C				
8.18	N/C				

DEPTH (ft)	DIAMETER (ft)	SOIL TYPE	MOISTURE (%)	UNCONSOLIDATED	TEST TYPE
0		GRAVEL: Gray, A-1 (continued) Rough drilling from 80.0 ft.-82.0 ft.			
13.9	N/C	SAND: Brownish-gray, trace gravel, A-3 Rough drilling from 105.0 ft.-107.8 ft.			
20.22	N/C	Coarse sand and rock fragments			
14.15	N/C				
8.18	N/C				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

ROCK CORE LOG

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY TC (SCI)

SECTION 1BR-1-1 LOCATION 38.6290280807, -90.1613723778, SEC. 13, TWP. 2N, RNG. 10W, Latitude, Longitude

COUNTY Saint Clair CORING METHOD NX Wireline

STRUCT. NO. 082-6003(E), 082-0374(P)
Station 73+59 to 75+18.50

BORING NO. BB-305
Station 71+43
Offset 55.0 ft LT
Ground Surface Elev. 415.0 ft

CORING BARREL TYPE & SIZE NX Wireline
Core Diameter 2 in
Top of Rock Elev. 298.5 ft
Begin Core Elev. 302.7 ft

DEPTH (ft)	DIAMETER (ft)	SOIL TYPE	RECOVERY (%)	ROCK QUALITY (%)	CORE TIME (min/ft)	STRENGTH (tsf)
0		GRAVEL: Limestone and granite cobbles and boulders	12	0		
2	69	SANDSTONE: Gray, moderately hard, very fine grained, banded, slightly weathered, calcareous Becomes medium bedded Becomes thickly bedded	56	5		94.1
3	95	3.2" open vertical fracture, becomes thin to medium bedded 2.2" open vertical fracture	82	2.8		85.7
4	100	Becomes banded to thinly bedded, trace stylolites	74	2.4		157.0
5	86	LIMESTONE: Light gray, moderately hard, very finely crystalline, medium bedded, slightly weathered 1.75" open vertical fracture Boring terminated at 130.5 ft. Boring grouted to 130.5 ft.	54	4		230.1

Color pictures of the cores Yes
Cores will be stored for examination until
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)



USER NAME =	DESIGNED - YSS	REVISED
	CHECKED - ZJB	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 02/06/2018	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING - 5
S.N. 082-W315 RETAINING WALL AT MLK BRIDGE APPROACH
SHEET NO. W13 OF W16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	234
CONTRACT NO. 76G39				

SOIL BORING LOG

Date 5/26-6/2-2016

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY BDG (SCI)
SECTION 1BR-1-1 LOCATION 38.6288584526, -90.1605354324, SEC. 13, TWP. 2N, RNG. 10W,
Latitude, Longitude
COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. Station	BORING NO. Station Offset	Ground Surface Elev.	D E L U C M O P L O S I O T W S Qu T				Surface Water Elev.				D E L U C M O P L O S I O T W S Qu T							
			ft	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)	
082-6003(E), 082-0374(P) 73+59 to 75+18.50	BB-306 74+00 31.0 ft LT	427.0					N/A	ft					N/A	ft				
3" TOPSOIL			426.8				FILL: Black, cinders, A-4 (continued) Rough drilling at 20.5 ft.											
FILL: Brown and gray, clay, trace sand and cinders, A-6			2 4 4				N/C P 24				405.0							
424.0			2 3 3				0.5 P 38				CLAY: Gray, with iron stains and nodules, A-7							
FILL: Brown, sandy clay, A-6			2 3 3				0.5 P 38				Trace iron stains							
422.5 422.0			2 5 5				N/C				401.5							
FILL: Brown, sand, A-3 FILL: Brown, clay, with cinders, trace sand, A-6			2 5 5				N/C				SILTY LOAM: Gray, A-4							
420.5			2 5 5				N/C				ST 0.5 S/10.6 33							
FILL: Brown, sand, A-3			4 5 6				N/C				2 5 7 N/C 28 29							
Trace clay lumps			3 4 6				N/C				395.0							
			4 6 8				N/C				WOH 1 0.9 B/20 49							
			7 9 12				N/C				390.0							
			6 7 4				N/C N/C				SAND: Brown, A-3							
407.5			6 7 4				N/C N/C				6 8 10 N/C							
FILL: Black, cinders, A-4			-20								-40							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

SOIL BORING LOG

Date 5/26-6/2-2016

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY BDG (SCI)
SECTION 1BR-1-1 LOCATION 38.6288584526, -90.1605354324, SEC. 13, TWP. 2N, RNG. 10W,
Latitude, Longitude
COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. Station	BORING NO. Station Offset	Ground Surface Elev.	D E L U C M O P L O S I O T W S Qu T				Surface Water Elev.				D E L U C M O P L O S I O T W S Qu T							
			ft	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)	
082-6003(E), 082-0374(P) 73+59 to 75+18.50	BB-306 74+00 31.0 ft LT	427.0					N/A	ft					N/A	ft				
SAND: Brown, A-3 (continued) Began mud rotary at 40.0 ft.							SAND: Brown, A-3 (continued)											
			10 12 -45				N/C				10 19 -65							
			5 7 -50				N/C				6 11 -70							
			10 11 -55				N/C				8 8 -75							
Becomes brownish-gray			4 6 -60				N/C				12 10 -80							
											359.5							
											SAND: Brown and gray, A-1 358.8							
											SAND: Gray, A-3							
											Trace gravel							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

SOIL BORING LOG

Date 5/26-6/2-2016

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY BDG (SCI)
SECTION 1BR-1-1 LOCATION 38.6288584526, -90.1605354324, SEC. 13, TWP. 2N, RNG. 10W, Latitude, Longitude
COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-6003(E), 082-0374(P)
Station 73+59 to 75+18.50
BORING NO. BB-306
Station 74+00
Offset 31.0 ft LT
Ground Surface Elev. 427.0 ft

DEPTH (ft)	SOIL TYPE	UCS (%)	MOISTURE (%)	DEPTH (ft)	SOIL TYPE	UCS (%)	MOISTURE (%)
0	Surface Water Elev.	N/A		0	Surface Water Elev.	N/A	
0	Stream Bed Elev.	N/A		0	Stream Bed Elev.	N/A	
0	Groundwater Elev.:			0	Groundwater Elev.:		
0	First Encounter	N/A		0	First Encounter	N/A	
0	Upon Completion	N/A		0	Upon Completion	N/A	
0	After N/A Hrs.	N/A		0	After N/A Hrs.	N/A	
10	SAND: Gray, A-3 (continued)			29	SAND: Gray, A-1 (continued)		
14		N/C		38		N/C	
16				50/4"			
15				23			
14		N/C		44		N/C	
12				47			
12	SAND: Gray, A-1			27			
50/5"		N/C		33		N/C	
				37			
16				50/5"			
22		N/C					
16							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

SOIL BORING LOG

Date 5/26-6/2-2016

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY BDG (SCI)
SECTION 1BR-1-1 LOCATION 38.6288584526, -90.1605354324, SEC. 13, TWP. 2N, RNG. 10W, Latitude, Longitude
COUNTY Saint Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-6003(E), 082-0374(P)
Station 73+59 to 75+18.50
BORING NO. BB-306
Station 74+00
Offset 31.0 ft LT
Ground Surface Elev. 427.0 ft

DEPTH (ft)	SOIL TYPE	UCS (%)	MOISTURE (%)	DEPTH (ft)	SOIL TYPE	UCS (%)	MOISTURE (%)
0	Surface Water Elev.	N/A		0	Surface Water Elev.	N/A	
0	Stream Bed Elev.	N/A		0	Stream Bed Elev.	N/A	
0	Groundwater Elev.:			0	Groundwater Elev.:		
0	First Encounter	N/A		0	First Encounter	N/A	
0	Upon Completion	N/A		0	Upon Completion	N/A	
0	After N/A Hrs.	N/A		0	After N/A Hrs.	N/A	
30	WEATHERED LIMESTONE w/ CLAY LOAM: Brown and gray, with chert gravel, A-1 (continued)			30	WEATHERED LIMESTONE w/ CLAY LOAM: Brown and gray, with chert gravel, A-1 (continued)		
41				41			
50/5"				50/5"			
50/1"				50/1"			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



USER NAME =	DESIGNED - YSS	REVISED
	CHECKED - ZJB	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 02/06/2018	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING - 7
S.N. 082-W315 RETAINING WALL AT MLK BRIDGE APPROACH

SHEET NO. W15 OF W16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	236
CONTRACT NO. 76G39			ILLINOIS FED. AID PROJECT	



Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

ROCK CORE LOG

Page 5 of 5

Date 5/26-6/2-2016

ROUTE Interstate 64 DESCRIPTION PTB 172, Item 22 - FAP 799 (MLK Drive) LOGGED BY BDG (SCI)

SECTION 1BR-1-1 LOCATION 38.6288584526, -90.1605354324, SEC. 13, TWP. 2N, RNG. 10W, Latitude, Longitude

COUNTY Saint Clair CORING METHOD

STRUCT. NO. 082-6003(E), 082-0374(P)
Station 73+59 to 75+18.50
CORING BARREL TYPE & SIZE NX Wireline
Core Diameter 2 in
Top of Rock Elev. 300.3 ft
BORING NO. BB-306
Station 74+00
Begin Core Elev. 300.3 ft
Offset 31.0 ft LT
Ground Surface Elev. 427.0 ft

DEPTH (ft)	CORER (#)	RECOVERY (%)	ROQ (%)	CORE TIME (min/ft)	STRENGTH (tsf)
300.28	1	100	73	2.22	820.6
WEATHERED LIMESTONE w/ CLAY LOAM: Brown and gray, with chert gravel, A-1 (continued) LIMESTONE: Light gray, hard, very finely crystalline, thin to medium bedded, moderately weathered, with interbedded clay seams Becomes thinly bedded					
-130					
296.05	2	100	89	1.3	228.6
Becomes fractured Becomes thinly bedded SANDSTONE: Gray, hard, very fine grained, thickly bedded, slightly weathered, calcareous					
-135					
289.50					225.4
LIMESTONE: Light gray, moderately hard, very finely crystalline, thickly bedded, slightly weathered					
-140					211.5
286.55					
Becomes banded, with 0.3" clay seam					
284.68	3	100	67	1	
SANDSTONE: Gray, hard, very fine grained, banded to thinly bedded, slightly weathered 1.3" interbedded limestone 0.65" clay seam, becomes medium bedded					
Boring terminated at 142.3 ft. Boring grouted to 142.3 ft.					
-145					

Color pictures of the cores Yes No

Cores will be stored for examination until _____

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)



USER NAME =	DESIGNED - YSS	REVISED
	CHECKED - ZJB	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 02/06/2018	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING - 8
S.N. 082-W315 RETAINING WALL AT MLK BRIDGE APPROACH

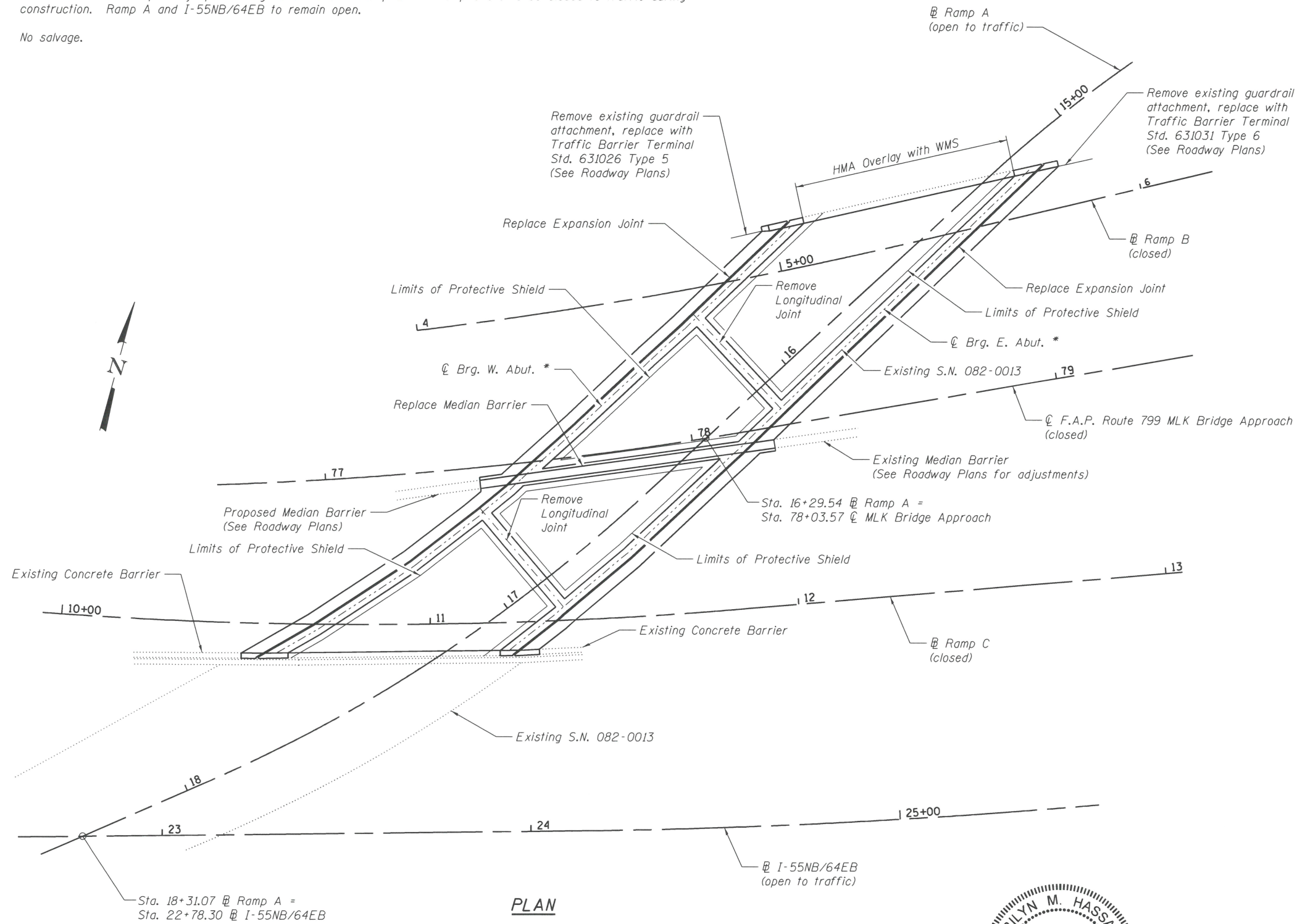
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	237
			CONTRACT NO. 76G39	

SHEET NO. W16 OF W16 SHEETS

ILLINOIS FED. AID PROJECT

The structure will be partially open during construction. Ramp B and Ramp C are to be closed to traffic during construction. Ramp A and I-55NB/64EB to remain open.

No salvage.



* Structural repair of concrete along stem of abutment and wingwalls required.

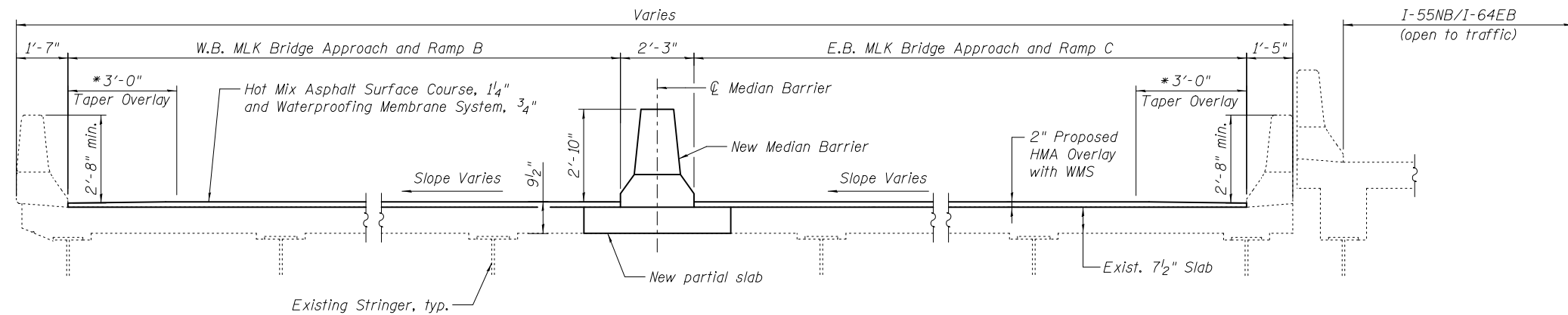
GENERAL NOTES

No field welding is permitted except as specified in the contract documents.
 Reinforcement bars designated (E) shall be epoxy coated.
 Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 Existing reinforcement shall be cleaned and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
 Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.
 Surface preparation at the construction joints shall be performed using high-pressurized water spray, using equipment capable of producing a minimum water pressure of 5000 psi.
 The Contractor shall install a protective shield to protect motorists and pedestrians on Ramp A from construction debris. Installation and removal of the protective shield shall occur during one of the interstate weekend closures.
 Existing Structure Plans are available for review in the District office. Contact Herve Gelin at (618) 346-3179.
 The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Polymerized Bituminous Materials (Tack Coat)	Pound	146	-	146
Polymerized Hot-Mix Asphalt Surface Course, Mix "E", N90	Ton	46	-	46
Concrete Removal	Cu. Yd.	111.4	-	111.4
Protective Shield	Sq. Yd.	379	-	379
Concrete Superstructure	Cu. Yd.	126.0	-	126.0
Protective Coat	Sq. Yd.	300	-	300
Reinforcement Bars, Epoxy Coated	Pound	16,240	-	16,240
Preformed Joint Strip Seal	Foot	378.7	-	378.7
Waterproofing Membrane System	Sq. Yd.	645	-	645
Epoxy Crack Injection	Foot	-	200	200
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	-	950	950
Structural Repair of Concrete (Depth Greater than 5 Inches)	Sq. Ft.	-	70	70
Longitudinal Joint Sealant	Foot	330	-	330

JERILYN M. HASSARD
 EDWARDSVILLE, ILLINOIS
 ILLINOIS LICENSED STRUCTURAL ENGINEER NO. 081-006521
 EXPIRES 11/30/2018
03-22-18



CROSS SECTION
Looking East

* Taper HMA Overlay to 1/2" if required to maintain minimum barrier height.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Polymerized Bituminous Materials (Tack Coat)	Pound	146
Polymerized Hot-Mix Asphalt Surface Course, Mix "E", N90	Ton	46
Waterproofing Membrane System	Sq. Yd.	645
Longitudinal Joint Sealant	Foot	330

Notes:
For median barrier replacement details, see sheet 4 and 5 of 9.
Longitudinal Joint Sealant and Tack Coat shall be placed on top of the 1/2" thick Asphalt Sand Seal Protection Layer of the WMS.



USER NAME =	DESIGNED - CDB	REVISED
	CHECKED - RLM	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 03/22/2018	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

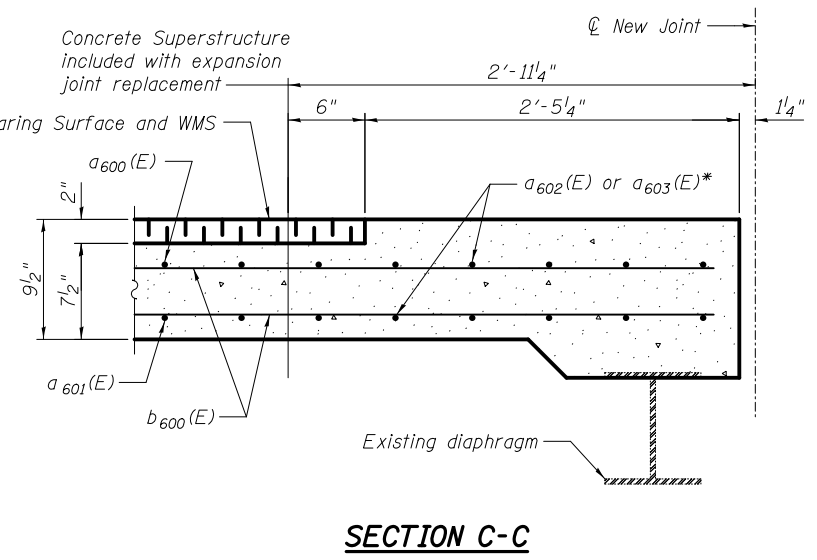
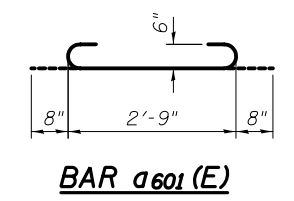
HMA OVERLAY
S.N. 082-0013 MLK BRIDGE APPROACH OVER RAMP A

SHEET NO. 2 OF 9 SHEETS

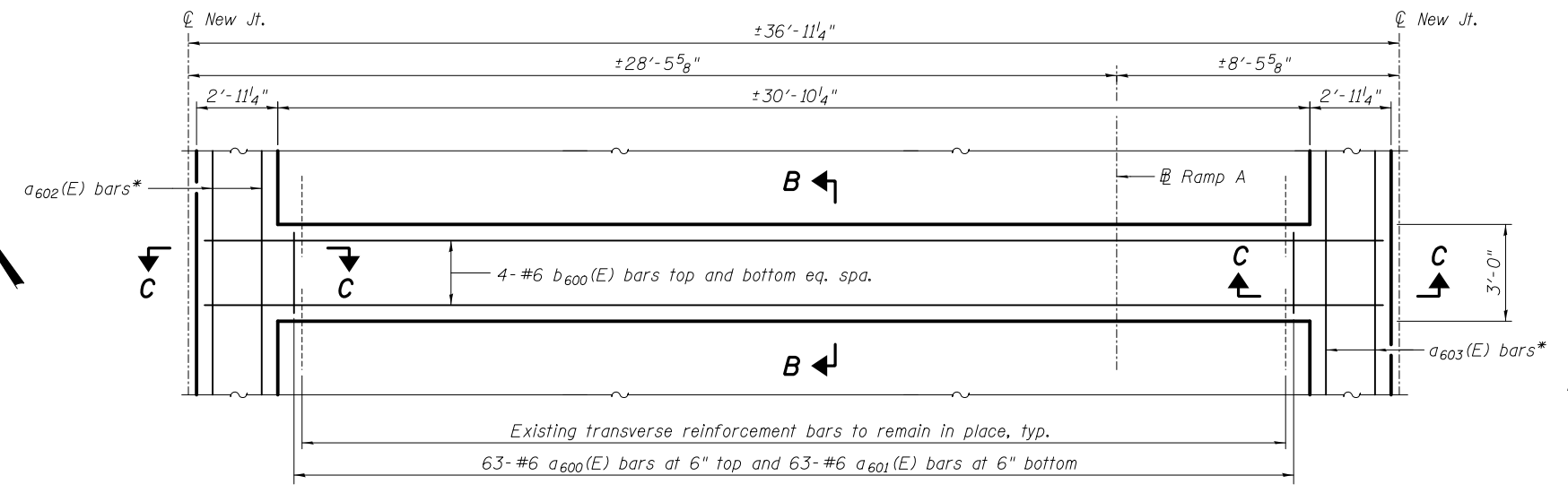
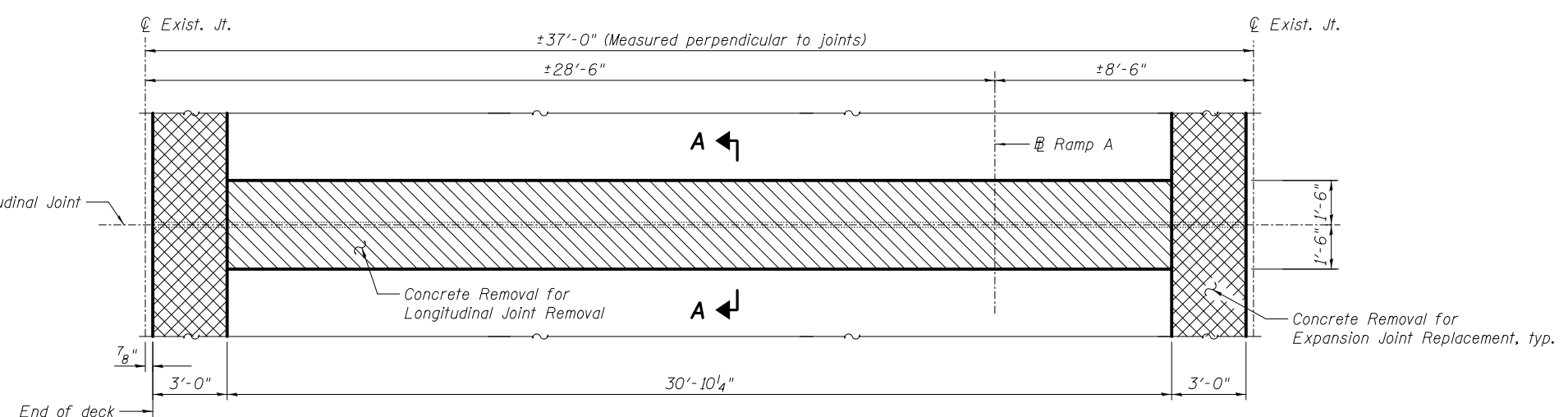
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	239
CONTRACT NO. 76G39				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

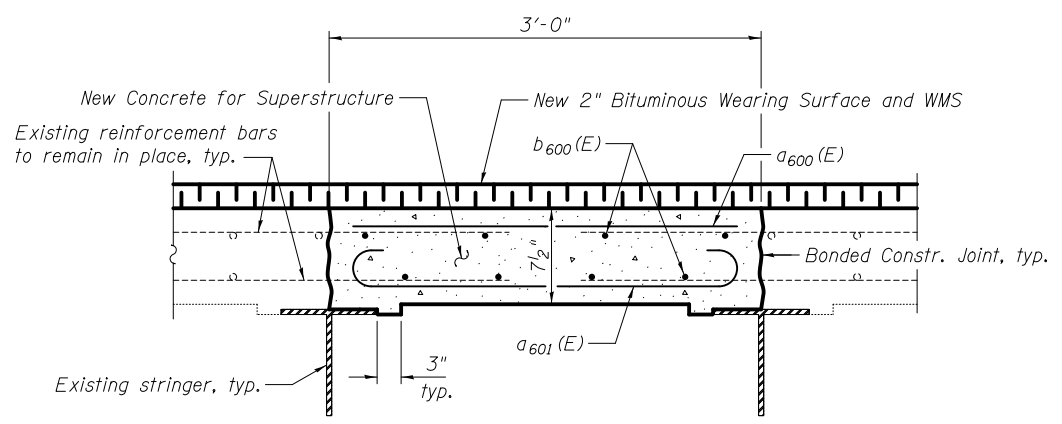
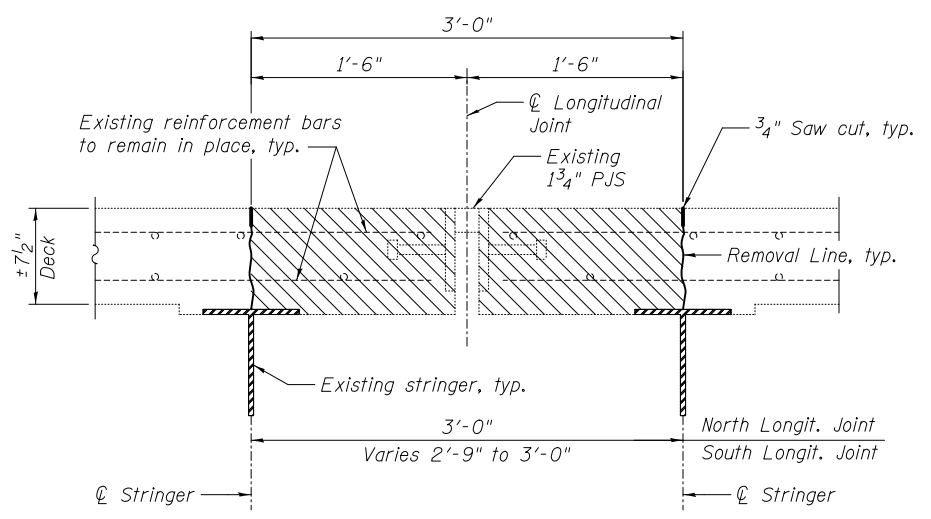
Bar	No.	Size	Length	Shape
a600(E)	126	#6	2'-9"	—
a601(E)	126	#6	4'-1"	⌋
b600(E)	16	#6	36'-5"	—
Concrete Removal			Cu. Yd.	5.2
Concrete Superstructure			Cu. Yd.	4.9
Reinforcement Bars, Epoxy Coated			Pound	2,170



Notes:
 Hatched areas indicate concrete section to be removed. Perimeters of Concrete Removal area shall be saw cut 3/4" prior to the removal of the concrete. Existing transverse reinforcement shall be cleaned, straightened and incorporated into the new construction.
 For Expansion Joint Replacement, see sheets 6 and 7 of 9.



* See Expansion Joint Replacement Details



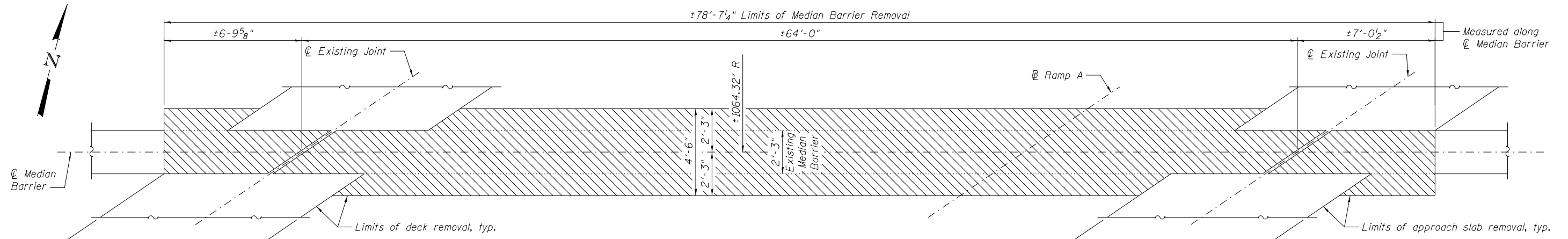
USER NAME =	DESIGNED - CDB	REVISED
PLOT SCALE =	CHECKED - RLM	REVISED
PLOT DATE = 03/22/2018	DRAWN - AEC	REVISED
	CHECKED - JMH	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LONGITUDINAL JOINT REMOVAL
 S.N.082-0013 MLK BRIDGE APPROACH OVER RAMP A

SHEET NO. 3 OF 9 SHEETS

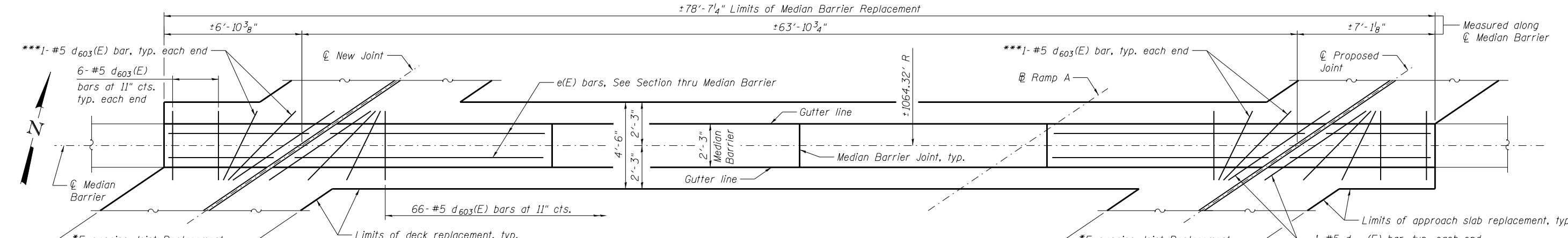
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	240
CONTRACT NO. 76C39				
ILLINOIS FED. AID PROJECT				



REMOVAL PLAN

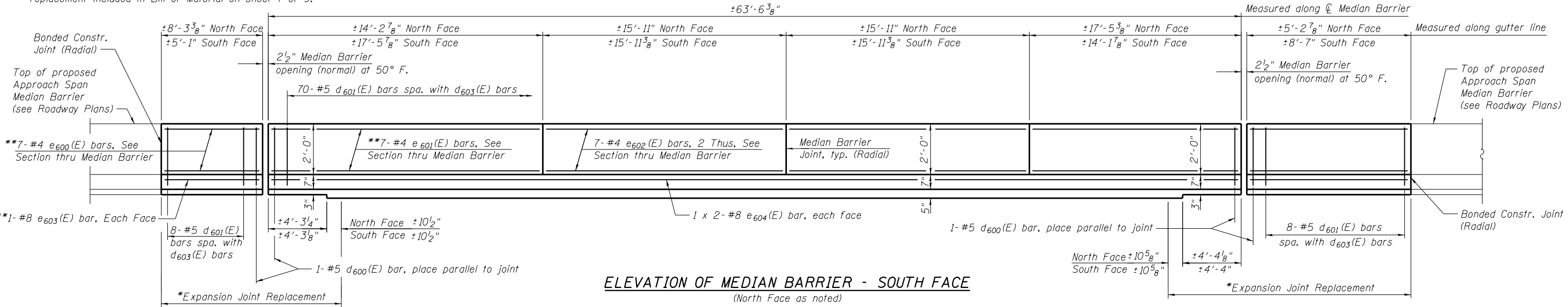
Quantity for Concrete Removal for deck and approach slab within limits of expansion joint removal included in Bill of Material on sheet 7 of 9.

* For Expansion Joint Details, see sheets 6 and 7 of 9.



REPLACEMENT PLAN

Quantity for Concrete Superstructure for deck and approach slab within limits of expansion joint replacement included in Bill of Material on sheet 7 of 9.



ELEVATION OF MEDIAN BARRIER - SOUTH FACE
(North Face as noted)

MINIMUM BAR LAP
(Median Barrier)
#8 bar = 5'-11"

** Order e₆₀₀(E), e₆₀₁(E) and e₆₀₃(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

*** Splay to fit skew

Notes:
Bar indicated thus, 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.
For Median Barrier details and Bill of Material, see sheet 5 of 9.



USER NAME =	DESIGNED - CDB	REVISED
	CHECKED - RLM	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 03/22/2018	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

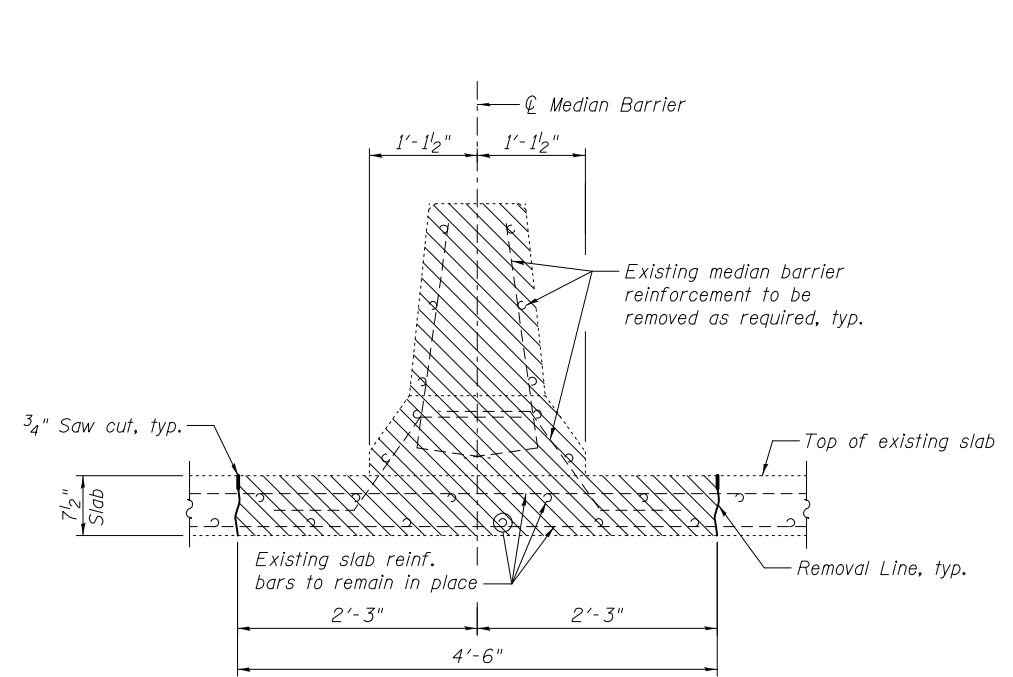
MEDIAN BARRIER REPLACEMENT DETAILS - 1
S.N. 082-0013 MLK BRIDGE APPROACH OVER RAMP A

SHEET NO. 4 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	241
CONTRACT NO. 76C39				
ILLINOIS FED. AID PROJECT				

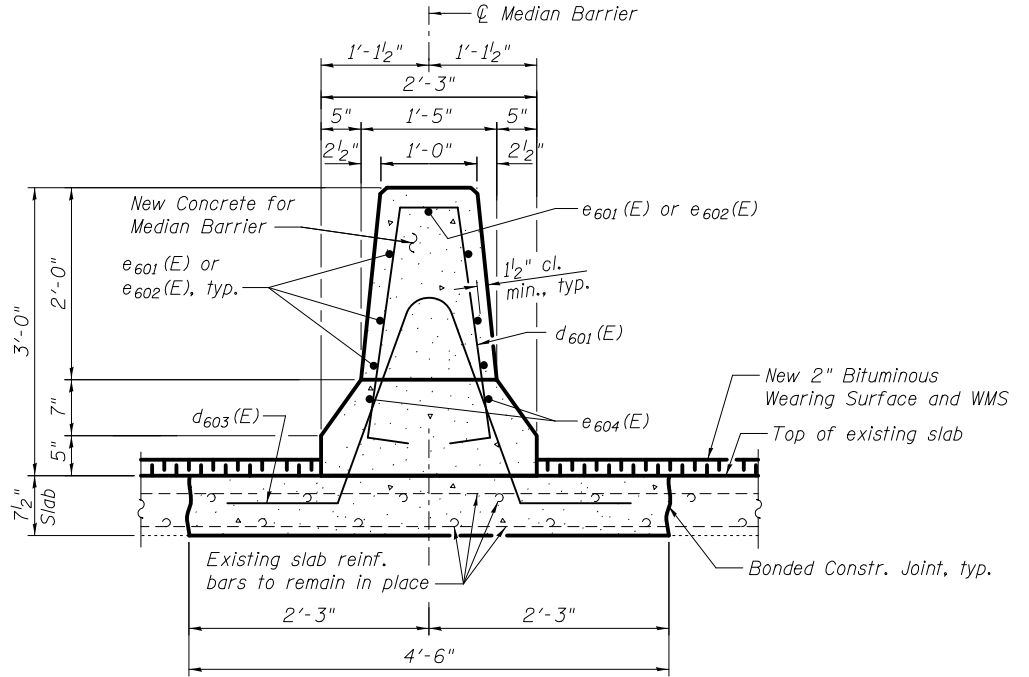
**MEDIAN BARRIER
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d ₆₀₀ (E)	4	#5	6'-10"	⏏
d ₆₀₁ (E)	86	#5	6'-5"	⏏
d ₆₀₂ (E)	4	#5	7'-4"	⏏
d ₆₀₃ (E)	86	#5	6'-10"	⏏
e ₆₀₀ (E)	7	#4	13'-2"	—
e ₆₀₁ (E)	7	#4	31'-1"	—
e ₆₀₂ (E)	14	#4	15'-8"	—
e ₆₀₃ (E)	2	#8	13'-2"	—
e ₆₀₄ (E)	4	#8	34'-7"	—
Concrete Removal			Cu. Yd.	17.2
Concrete Superstructure			Cu. Yd.	19.8
Protective Coat			Sq. Yd.	61
Reinforcement Bars, Epoxy Coated			Pound	2,050

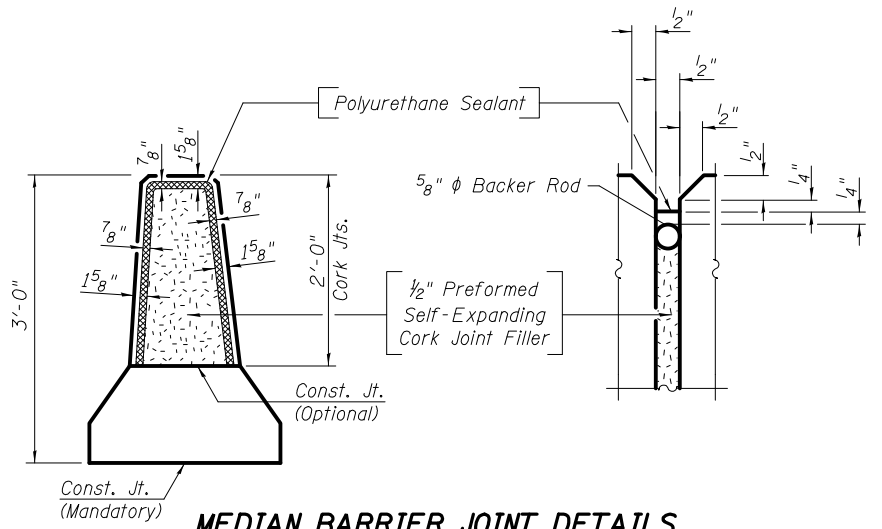


**SECTION THRU MEDIAN BARRIER
SHOWING REMOVAL**

Note:
Hatched areas indicate concrete section to be removed. Perimeters of Concrete Removal area shall be saw cut 3/4" prior to the removal of the concrete. Existing slab reinforcement shall be cleaned, straightened and incorporated into the new construction.

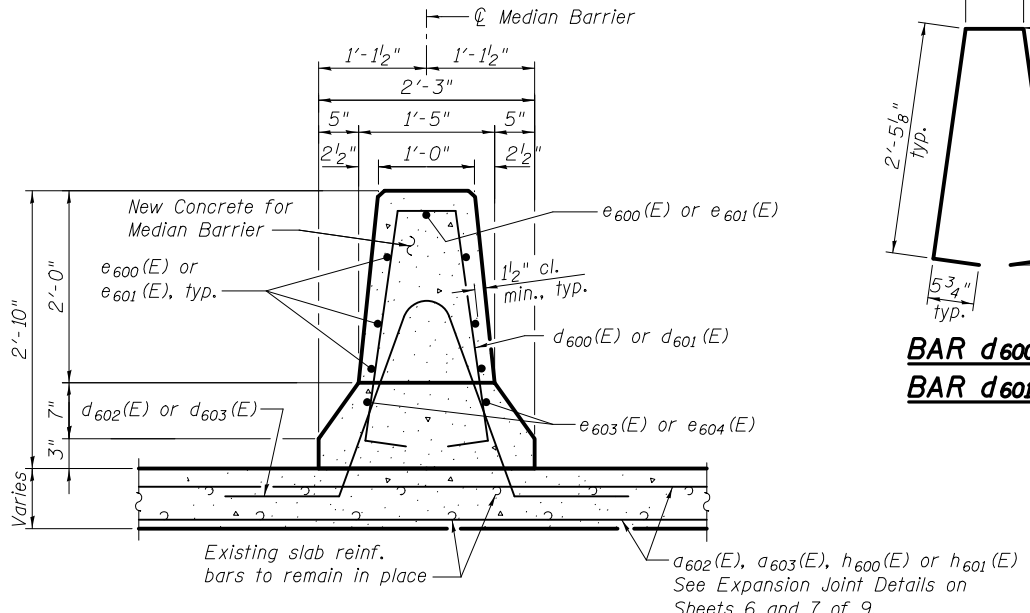


**SECTION THRU MEDIAN BARRIER
SHOWING REPLACEMENT
AT WEARING SURFACE**

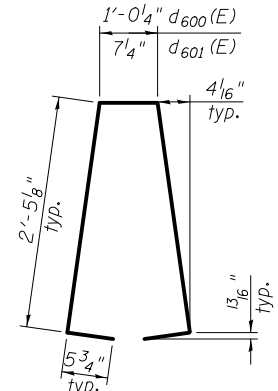


MEDIAN BARRIER JOINT DETAILS

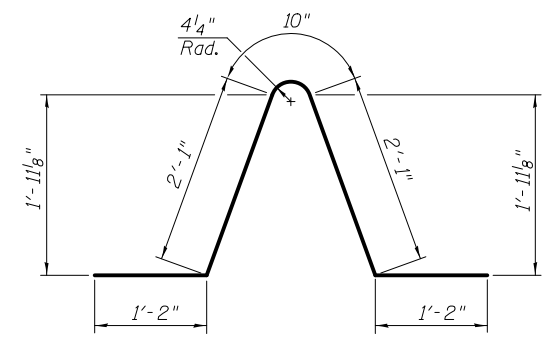
Notes:
The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and color shall be gray. Cost included with Concrete Superstructure.
The 1/2" Preformed Self-Expanding Cork Joint Filler shall be according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.



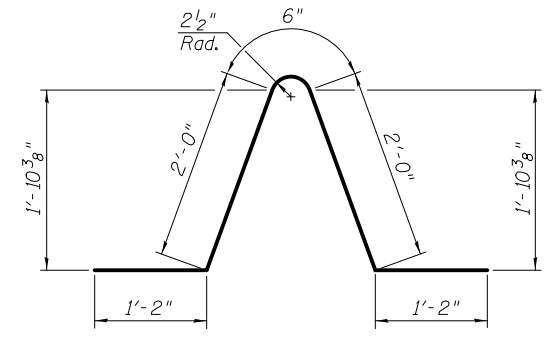
**SECTION THRU MEDIAN BARRIER
SHOWING REPLACEMENT
AT EXPANSION JOINT**



**BAR d₆₀₀(E)
BAR d₆₀₁(E)**



BAR d₆₀₂(E)



BAR d₆₀₃(E)

Note:
Median barrier concrete shall be paid for as Concrete Superstructure.



USER NAME =	DESIGNED - CDB	REVISED
PLOT SCALE =	CHECKED - RLM	REVISED
PLOT DATE = 03/22/2018	DRAWN - AEC	REVISED
	CHECKED - JMH	REVISED

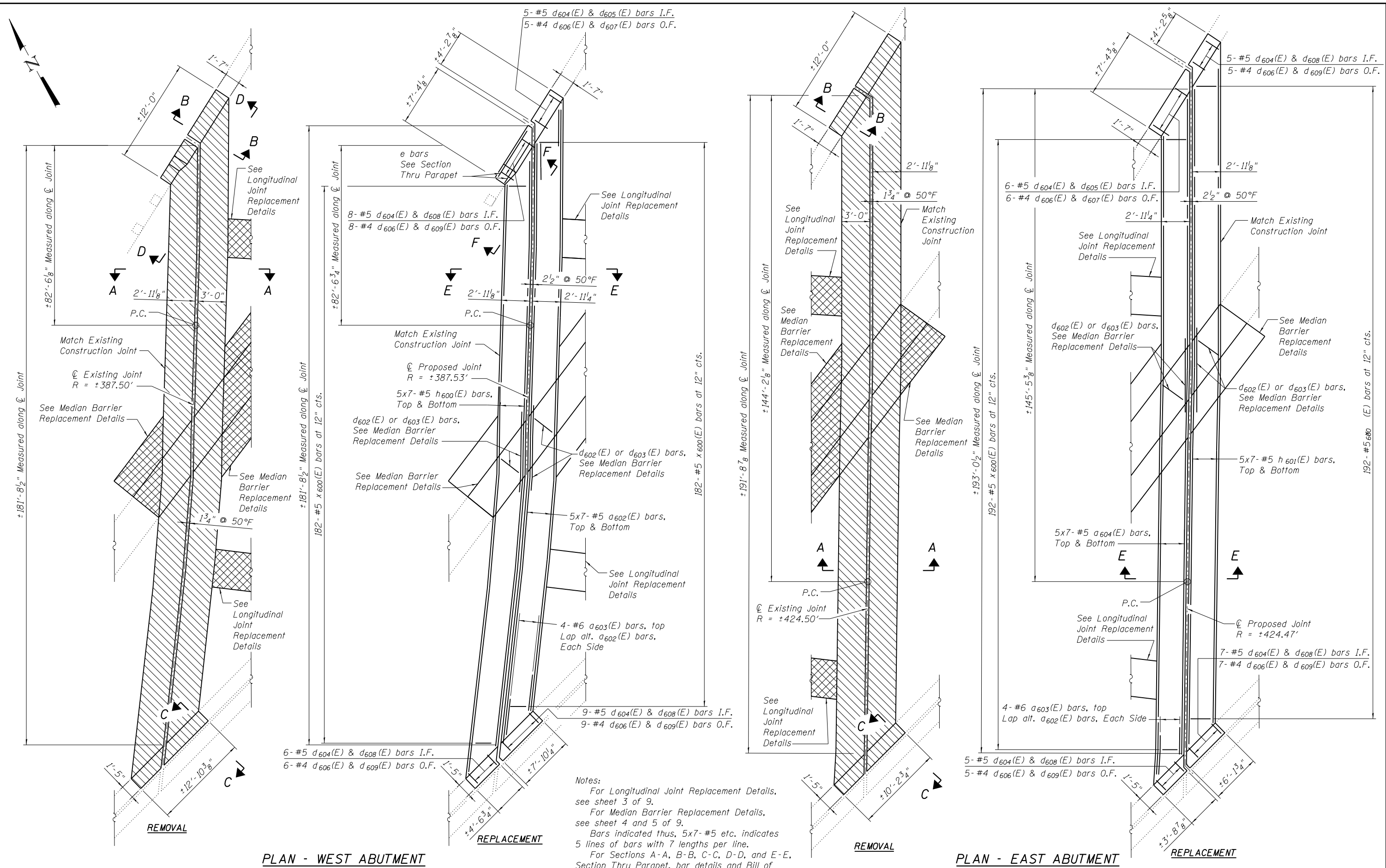
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MEDIAN BARRIER REPLACEMENT - 2
S.N. 082-0013 MLK BRIDGE APPROACH OVER RAMP A

SHEET NO. 5 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	242
CONTRACT NO. 76G39				

ILLINOIS FED. AID PROJECT



PLAN - WEST ABUTMENT

PLAN - EAST ABUTMENT

Notes:
 For Longitudinal Joint Replacement Details, see sheet 3 of 9.
 For Median Barrier Replacement Details, see sheet 4 and 5 of 9.
 Bars indicated thus, 5x7-#5 etc. indicates 5 lines of bars with 7 lengths per line.
 For Sections A-A, B-B, C-C, D-D, and E-E, Section Thru Parapet, bar details and Bill of Materials, see sheet 7 of 9.

Note: Hatched areas indicate removal.



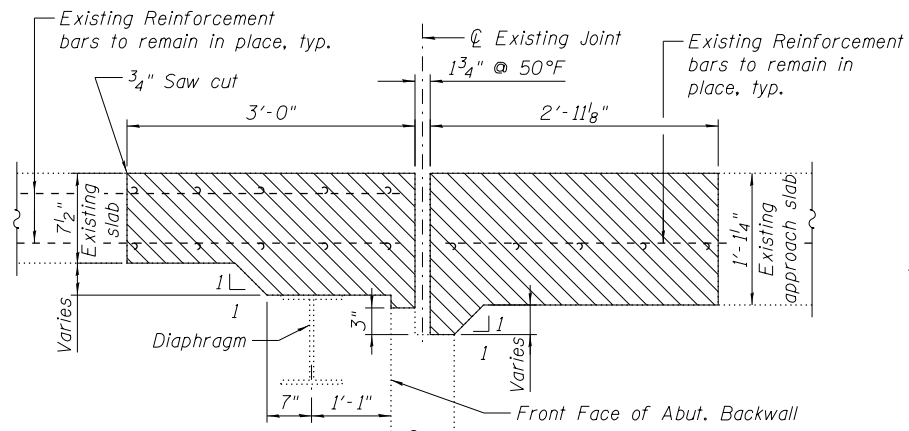
USER NAME =	DESIGNED - CDB	REVISED
PLOT SCALE =	CHECKED - RLM	REVISED
PLOT DATE = 03/22/2018	DRAWN - AEC	REVISED
	CHECKED - JMH	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

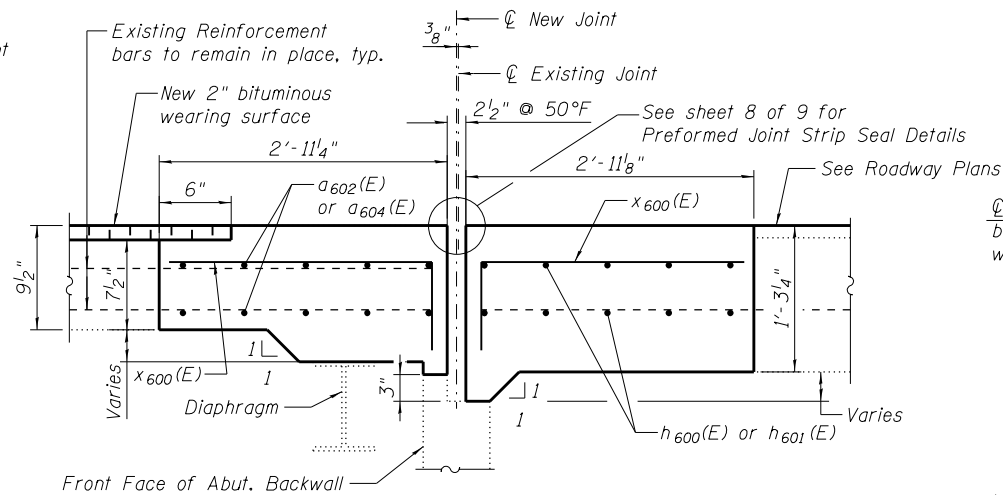
EXPANSION JOINT REPLACEMENT DETAILS - 1
 S.N. 082-0013 MLK BRIDGE APPROACH OVER RAMP A

SHEET NO. 6 OF 9 SHEETS

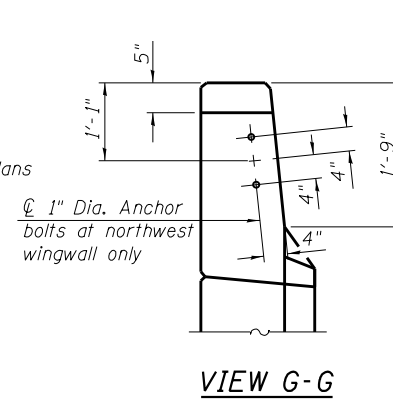
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	243
CONTRACT NO. 76C39				
ILLINOIS FED. AID PROJECT				



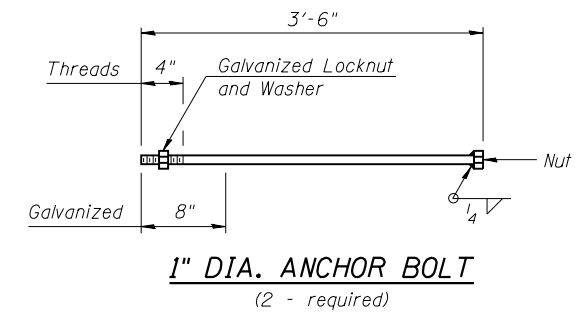
SECTION A-A
(near \hat{C} Roadway)



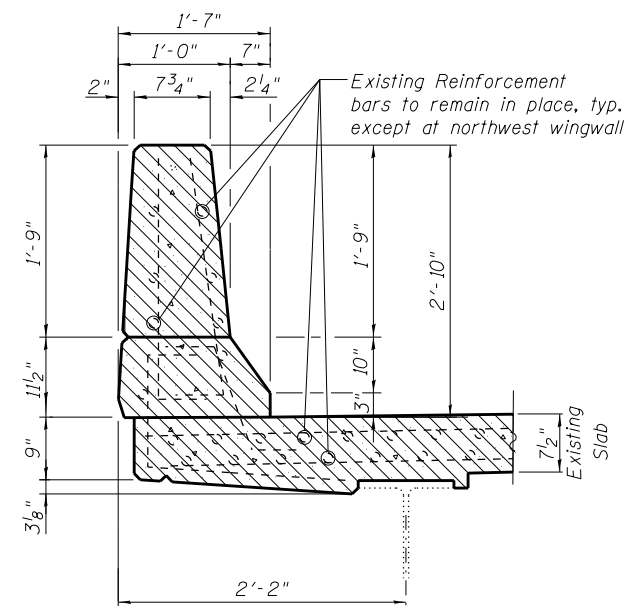
SECTION E-E
(near \hat{C} Roadway)



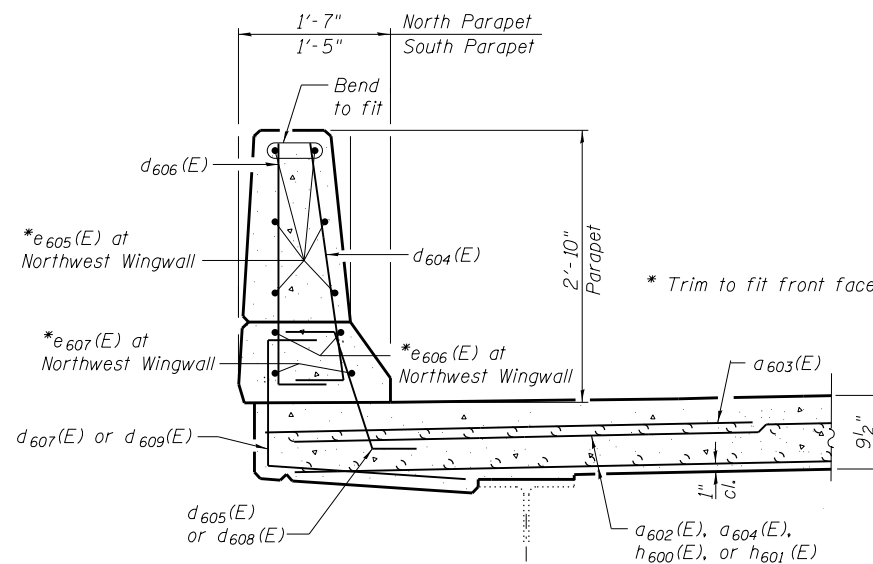
VIEW G-G



1" DIA. ANCHOR BOLT
(2 - required)



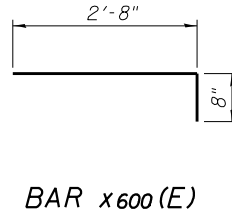
SECTION B-B



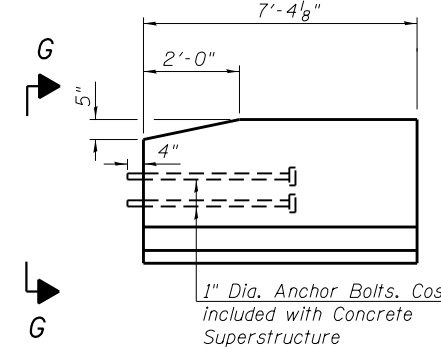
TYPICAL SECTION THRU PARAPET

Dimensions of parapet replacement should match existing parapet dimensions at repair location.
Section thru new 2" bituminous wearing surface similar.
e bars shown for parapet section at northwest wingwall. For all other locations, existing reinforcement bars to remain in place.

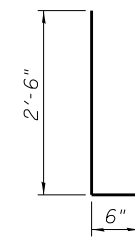
MINIMUM BAR LAP
(Slab)
#5 bar = 3'-6"



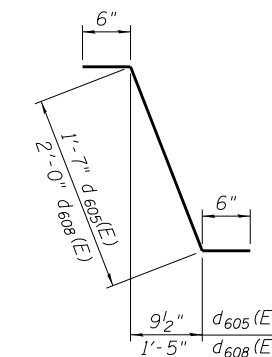
BAR x600(E)



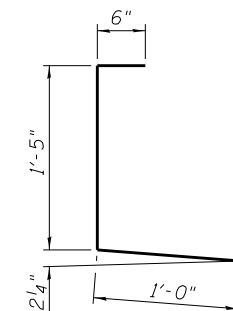
VIEW F-F



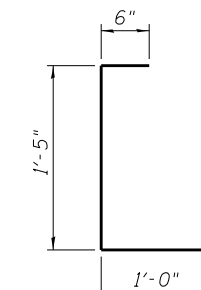
BARS d604(E) & d606(E)



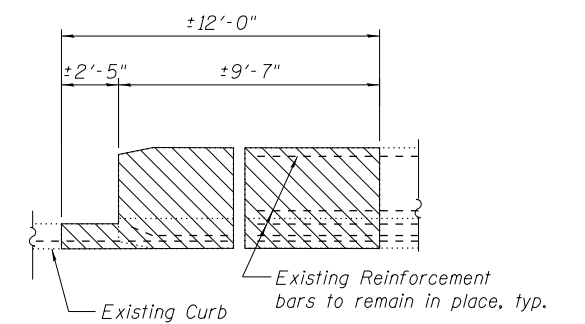
BAR d605(E) & d608(E)



BAR d607(E)



BAR d609(E)



VIEW D-D

Guardrail not shown for clarity.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a602(E)	70	#5	28'-11"	—
a603(E)	16	#6	6'-6"	—
a604(E)	70	#5	30'-5"	—
d604(E)	51	#5	3'-0"	L
d605(E)	11	#5	2'-7"	L
d606(E)	51	#4	3'-0"	L
d607(E)	11	#4	2'-11"	L
d608(E)	40	#5	3'-0"	L
d609(E)	40	#4	2'-11"	L
h600(E)	70	#5	28'-11"	—
h601(E)	70	#5	30'-5"	—
e605(E)	6	#4	7'-1"	—
e606(E)	2	#8	7'-1"	—
e607(E)	2	#5	7'-1"	—
x600(E)	748	#5	3'-4"	L
Concrete Removal		Cu. Yd.	89.0	
Concrete Superstructure		Cu. Yd.	101.3	
Protective Coat		Sq. Yd.	239	
Reinforcement Bars, Epoxy Coated		Pound	12,020	

Note: Hatched areas indicate concrete removal.



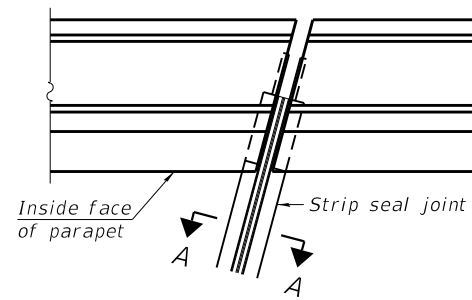
USER NAME =	DESIGNED - CDB	REVISED
PLOT SCALE =	CHECKED - RLM	REVISED
PLOT DATE = 03/22/2018	DRAWN - AEC	REVISED
	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REPLACEMENT DETAILS - 2
S.N. 082-0013 MLK BRIDGE APPROACH OVER RAMP A

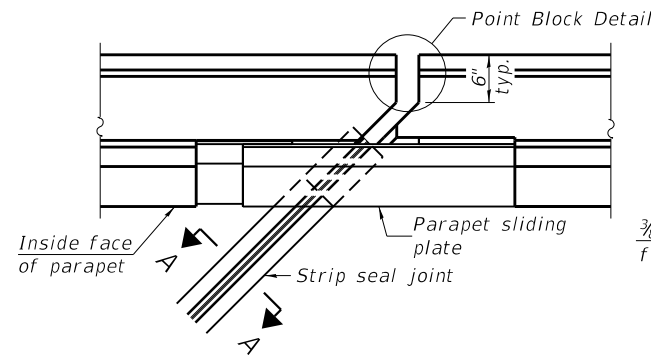
SHEET NO. 7 OF 9 SHEETS

F.A.P. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	244
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76C39	

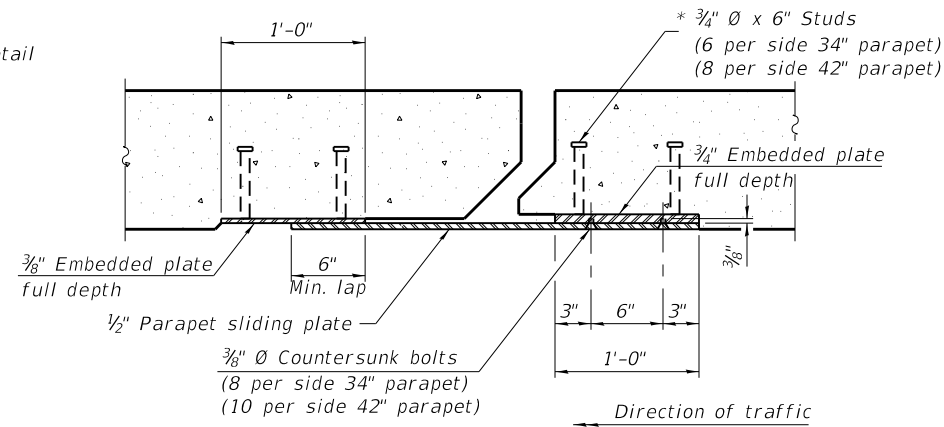


FOR SKEWS $\leq 30^\circ$

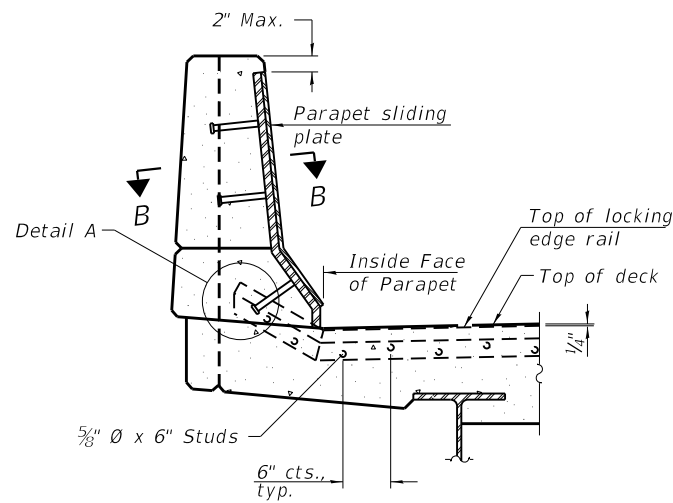
PLAN AT PARAPET



FOR SKEWS $> 30^\circ$

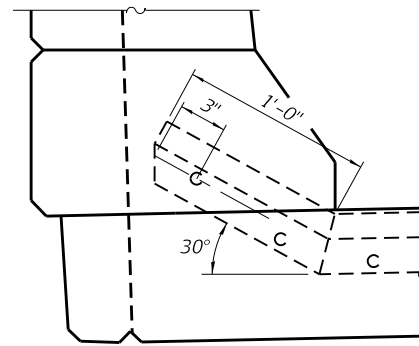


SECTION B-B

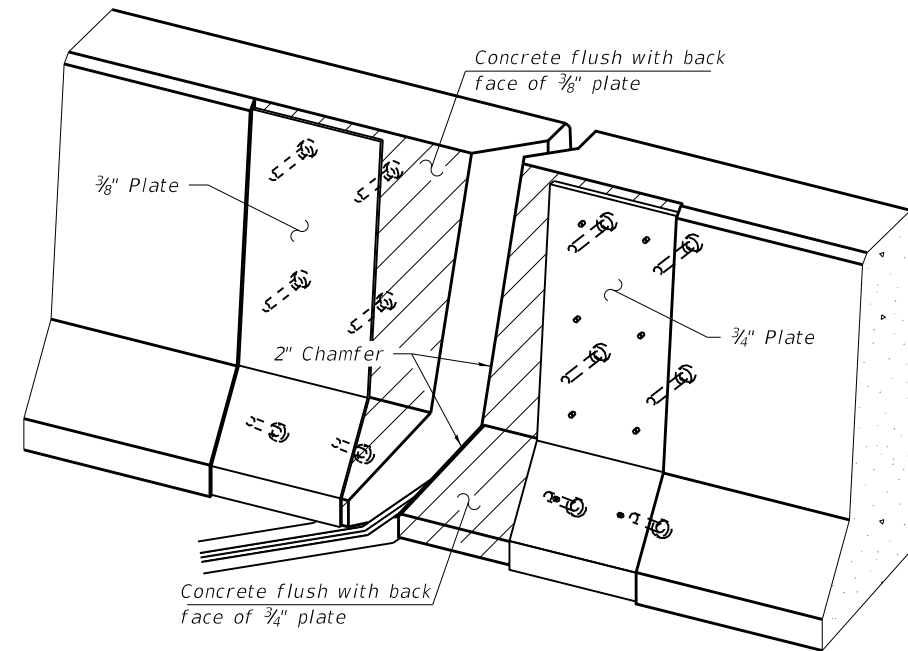


ELEVATION AT PARAPET

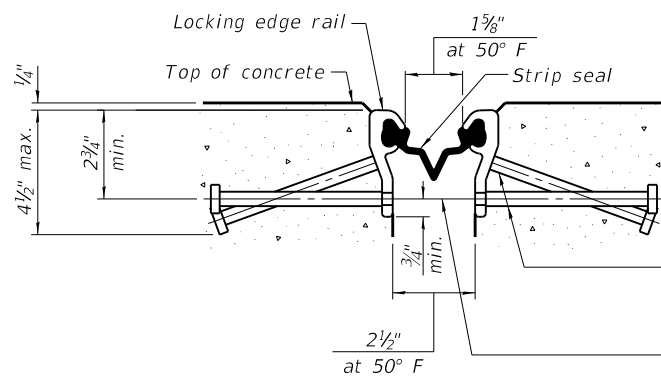
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW
(Showing embedded plates only)



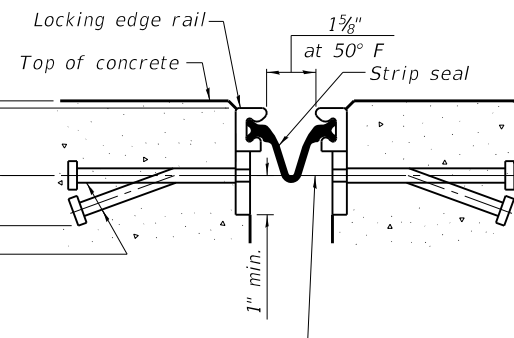
SHOWING ROLLED RAIL JOINT

* $5/8"$ ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

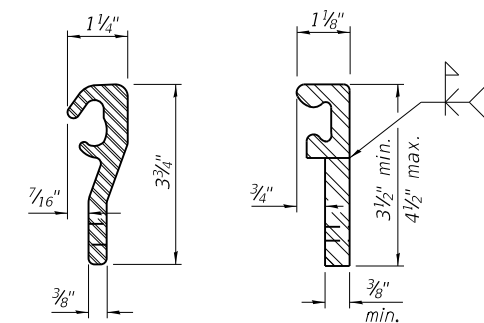
$3/8"$ ϕ threaded rods in $7/16"$ ϕ holes at $\pm 4"-0"$ cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



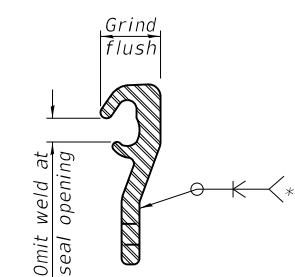
SHOWING WELDED RAIL JOINT



ROLLED (EXTRUDED) RAIL
WELDED RAIL

LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	378.7

EJ-SS

8-11-17



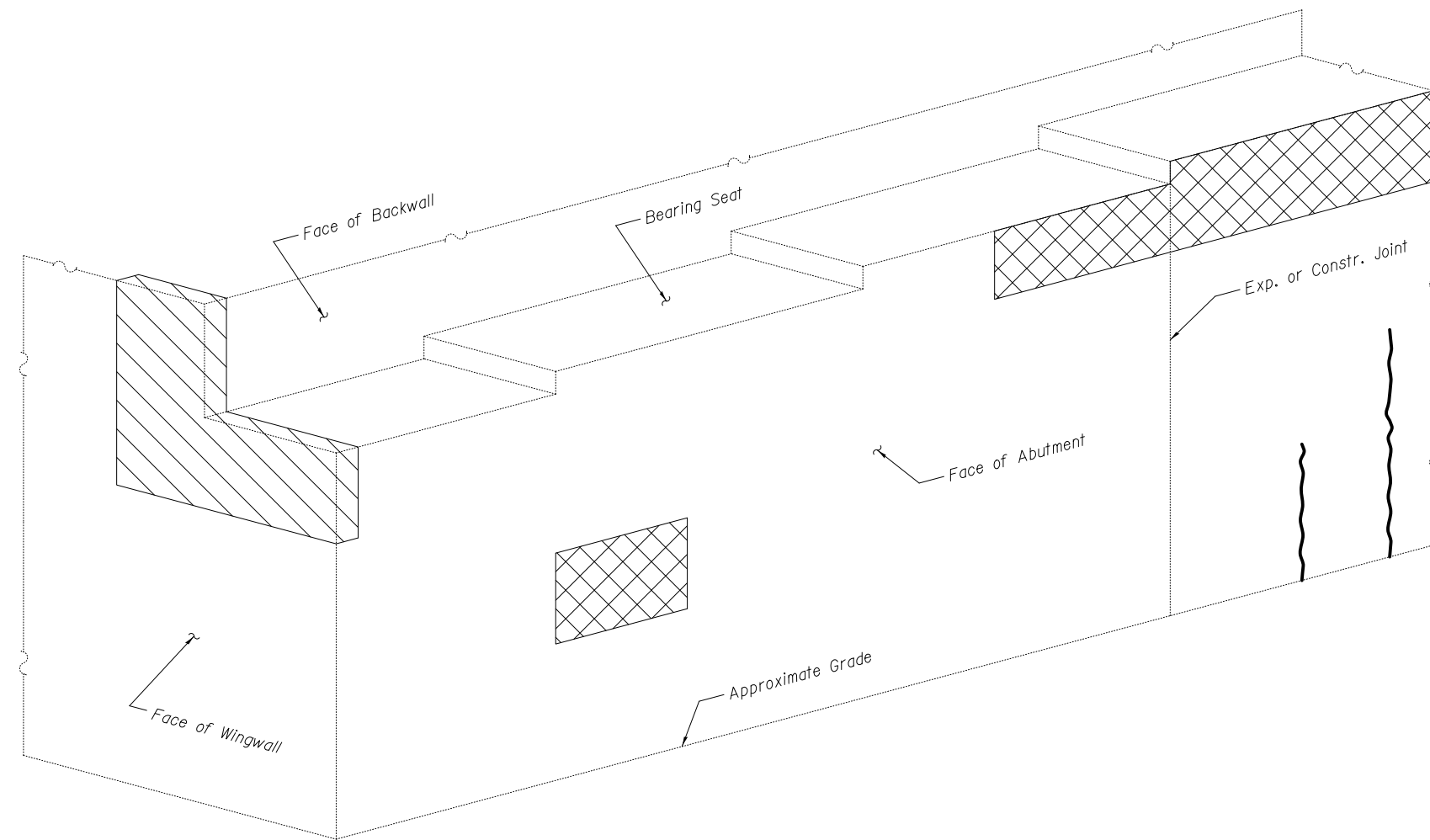
USER NAME =	DESIGNED - CDB	REVISED
PLOT SCALE =	CHECKED - RLM	REVISED
PLOT DATE = 03/22/2018	DRAWN - AEC	REVISED
	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
S.N.082-0013 MLK BRIDGE APPROACH OVER RAMP A

SHEET NO. 8 OF 9 SHEETS

F.A.P. RTE. 799	SECTION 1BR-1-1	COUNTY ST. CLAIR	TOTAL SHEETS 315	SHEET NO. 245
ILLINOIS FED. AID PROJECT				CONTRACT NO. 76C39



PARTIAL ELEVATION OF WINGWALL AND ABUTMENT
(General View)

LEGEND

- Epoxy Crack Injection
- Structural Repair of Concrete < 5 inches
- Structural Repair of Concrete > 5 inches

Note:
Repairs shown in the Partial Elevation of Wingwall and Abutment provide a general representation of the repairs that will be required to the exposed surfaces of the East and West Abutments and wingwalls. The repairs shown do not represent actual repair locations and extents of repair. Actual locations to be repaired and the corresponding repair limits will be determined by the Engineer at the time of construction. Quantities provided in the Bill of Material are estimated.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Epoxy Crack Injection	Foot	200
Structural Repair of Concrete (Depth Equal to or less than 5 inches)	Sq. Ft.	950
Structural Repair of Concrete (Depth Greater than 5 inches)	Sq. Ft.	70



USER NAME =	DESIGNED - CDB	REVISED
	CHECKED - RLM	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 03/22/2018	CHECKED - JMH	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WINGWALL AND ABUTMENT REPAIRS
S.N. 082-0013 MLK BRIDGE APPROACH OVER RAMP A**

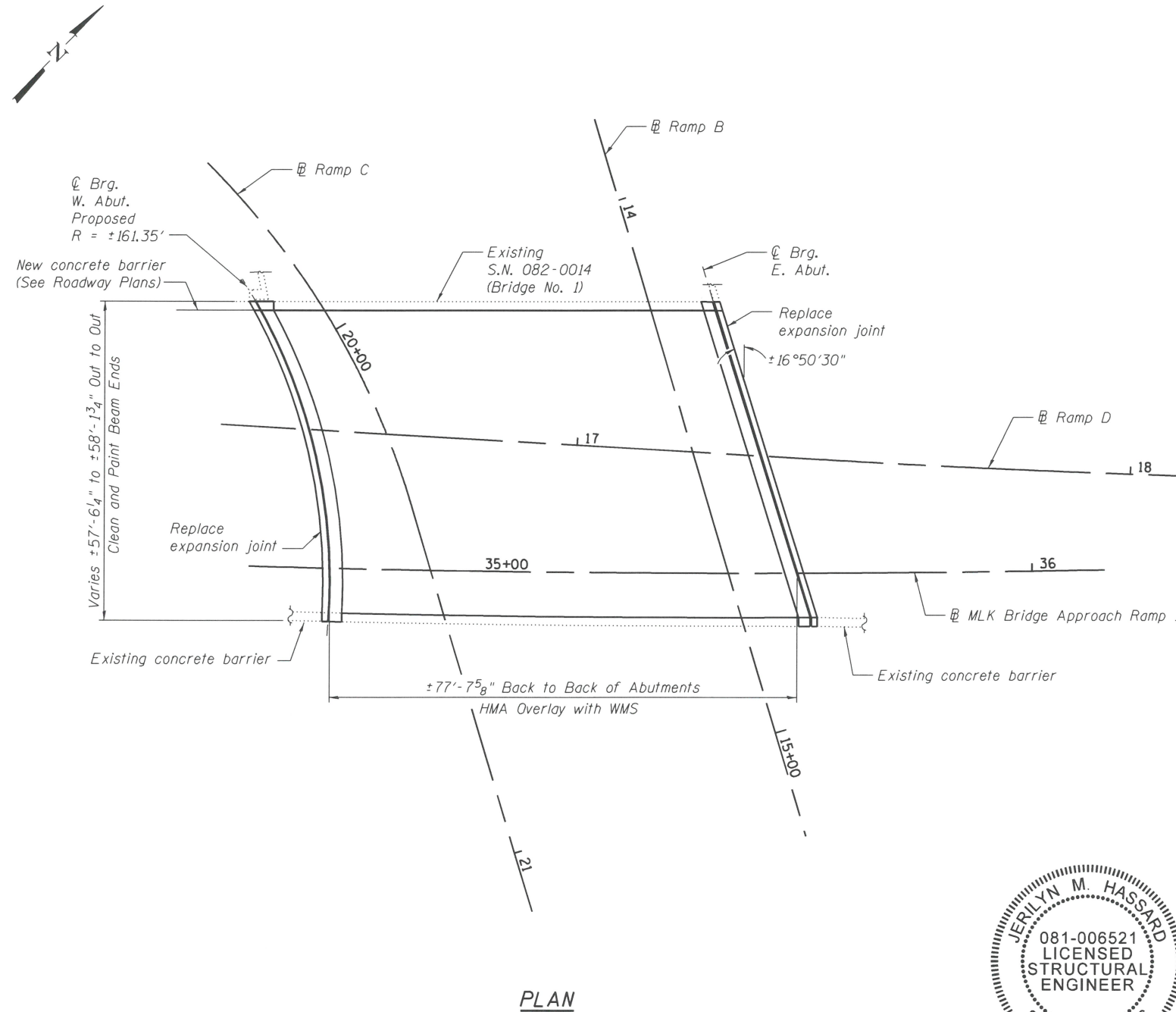
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	246
CONTRACT NO. 76G39				
ILLINOIS FED. AID PROJECT				

Ramp D is to remain open to traffic during construction. Ramp I, Ramp B, and Ramp C are to be closed to traffic during construction. Stage construction will be utilized to perform the repairs on the structure.

No salvage.

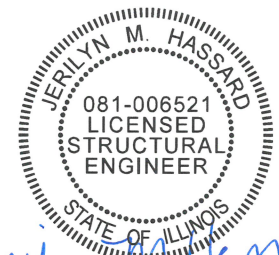
GENERAL NOTES

No field welding is permitted except as specified in the contract documents.
 Reinforcement bars designated (E) shall be epoxy coated.
 Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 Existing reinforcement shall be cleaned and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
 Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.
 Surface preparation at the construction joints shall be performed using high-pressurized water spray, using equipment capable of producing a minimum water pressure of 5000 psi.
 Cleaning and painting of the existing structural steel shall be as specified in the special provision for Cleaning and Painting Existing Steel Structures. Areas to be cleaned and painted shall consist of all beam ends, end diaphragms and steel components of the steel bearings at the abutments. Beam end painting shall extend 5 feet from centerline bearing of beams longitudinally. This surface preparations shall be accomplished according to the requirements of Near-White Metal Blast Cleaning SSPC-SP10. The paint system shall be applied as specified for System I OZ/E/U. The color of the final finish coat shall be Grey, Munsell No. 5B 7/1.
 Complete cost of painting the locations described on this sheet shall be considered included with the pay item Cleaning and Painting Steel Bridge No. 1.
 Care shall be taken not to damage rubber bearing or joint components during the blasting and cleaning operations. Any damage to these components shall be repaired at the Contractor's expense.
 Existing Structure Plans are available for review in the District office. Contact Herve Gelin at (618) 346-3179.
 The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.



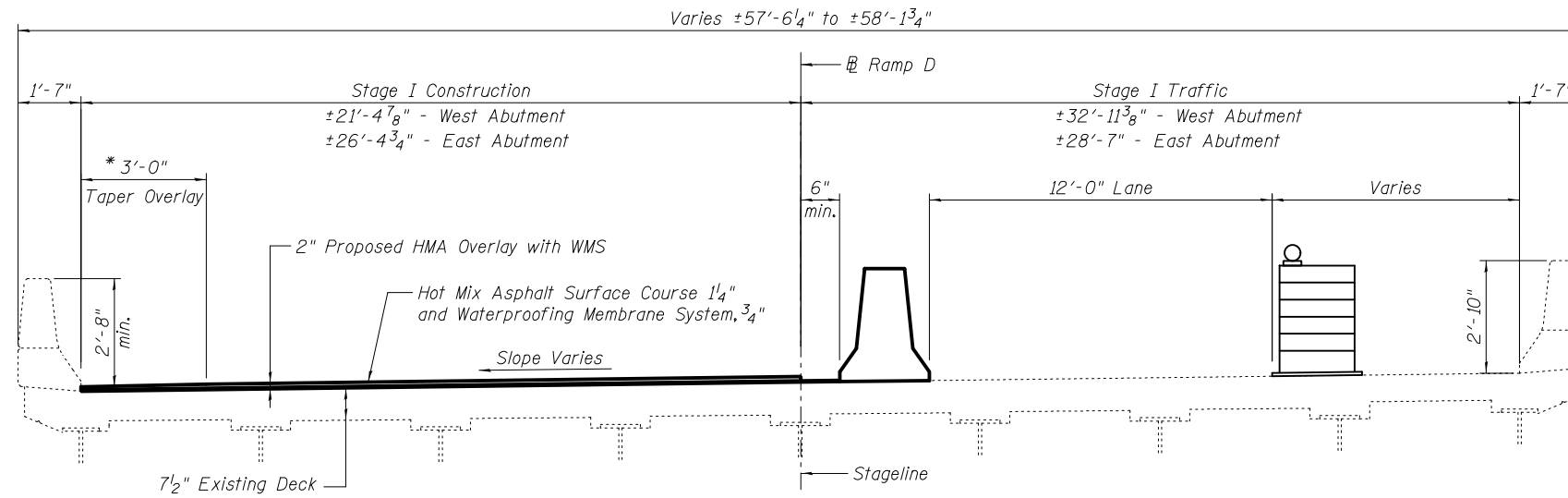
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Polymerized Bituminous Materials (Tack Coat)	Pound	103	-	103
Polymerized Hot-Mix Asphalt Surface Course, Mix "E", N90	Ton	32	-	32
Concrete Removal	Cu. Yd.	16.4	-	16.4
Concrete Superstructure	Cu. Yd.	18.6	-	18.6
Protective Coat	Sq. Yd.	72	-	72
Reinforcement Bars, Epoxy Coated	Pound	2,680	-	2,680
Bar Splicers	Each	18	-	18
Preformed Joint Strip Seal	Foot	125.0	-	125.0
Waterproofing Membrane System	Sq. Yd.	459	-	459
Cleaning and Painting Steel Bridge No. 1	L. Sum	1	-	1
Longitudinal Joint Sealant	Foot	298	-	298
Containment and Disposal of Non-Lead Paint Cleaning Residues No. 1	L. Sum	1	-	1

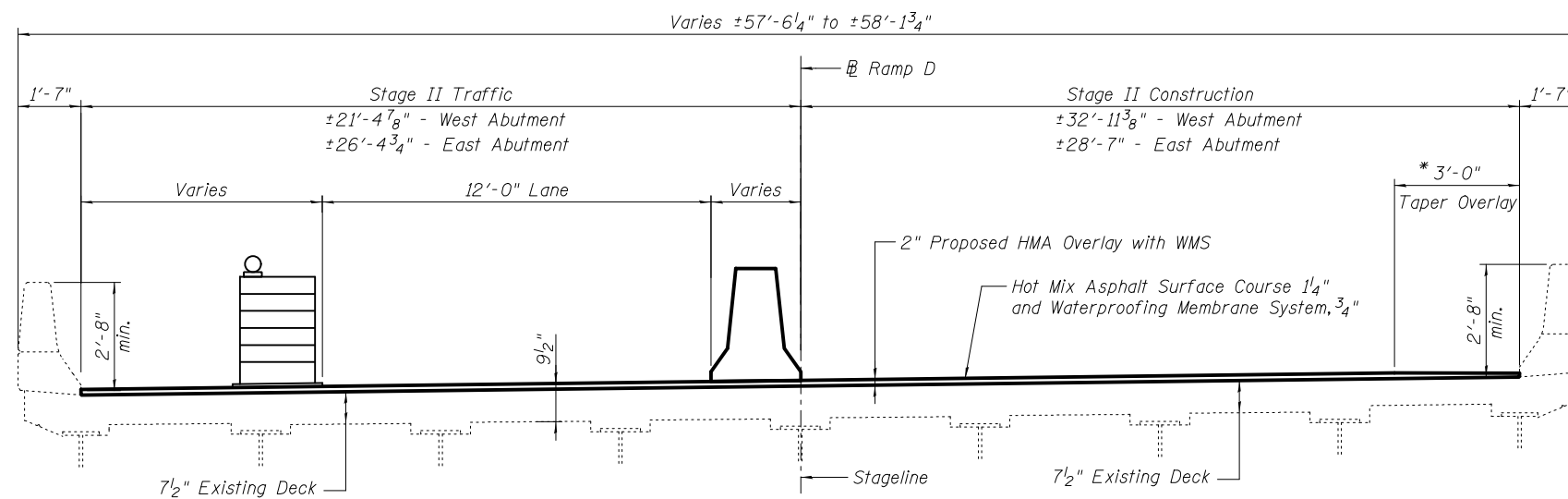


Jerilyn M. Hassard
 JERILYN M. HASSARD
 EDWARDSVILLE, ILLINOIS
 ILLINOIS LICENSED STRUCTURAL
 ENGINEER NO. 081-006521
 EXPIRES 11/30/2018
 03-22-18

PLAN

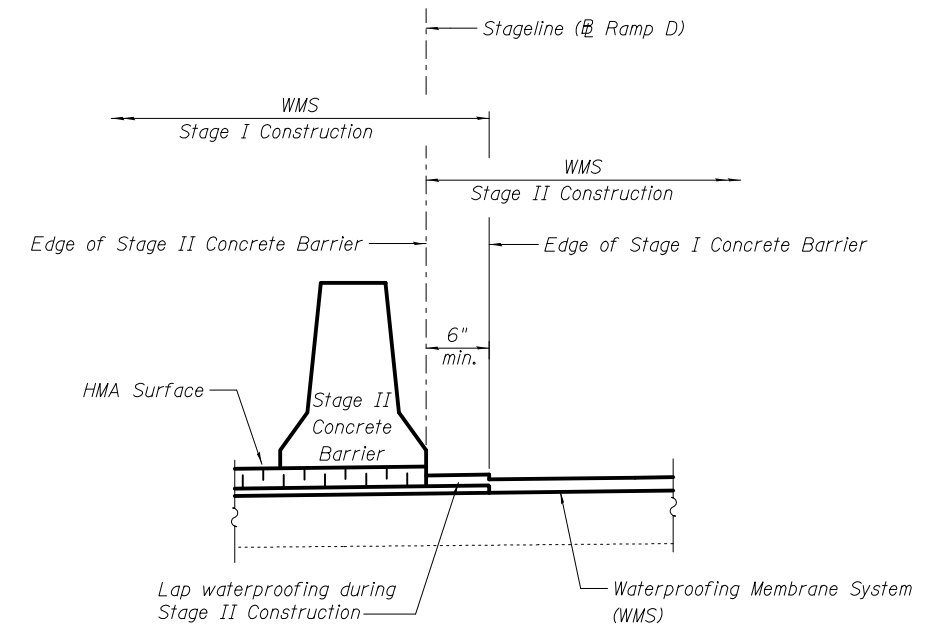


STAGE I TYPICAL SECTION
Looking Upstation



STAGE II TYPICAL SECTION
Looking Upstation

* Taper HMA Overlay to 1/2" if required to maintain minimum barrier height.



WATERPROOFING TREATMENT AT STAGE CONSTRUCTION LINE

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Polymerized Bituminous Materials (Tack Coat)	Pound	103
Polymerized Hot-Mix Asphalt Surface Course, Mix "E", N90	Ton	32
Waterproofing Membrane System	Sq. Yd.	459
Longitudinal Joint Sealant	Foot	298

Note:
Longitudinal Joint Sealant and Tack Coat shall be placed on top of the 1/2" thick Asphalt Sand Seal Protection Layer of the WMS.



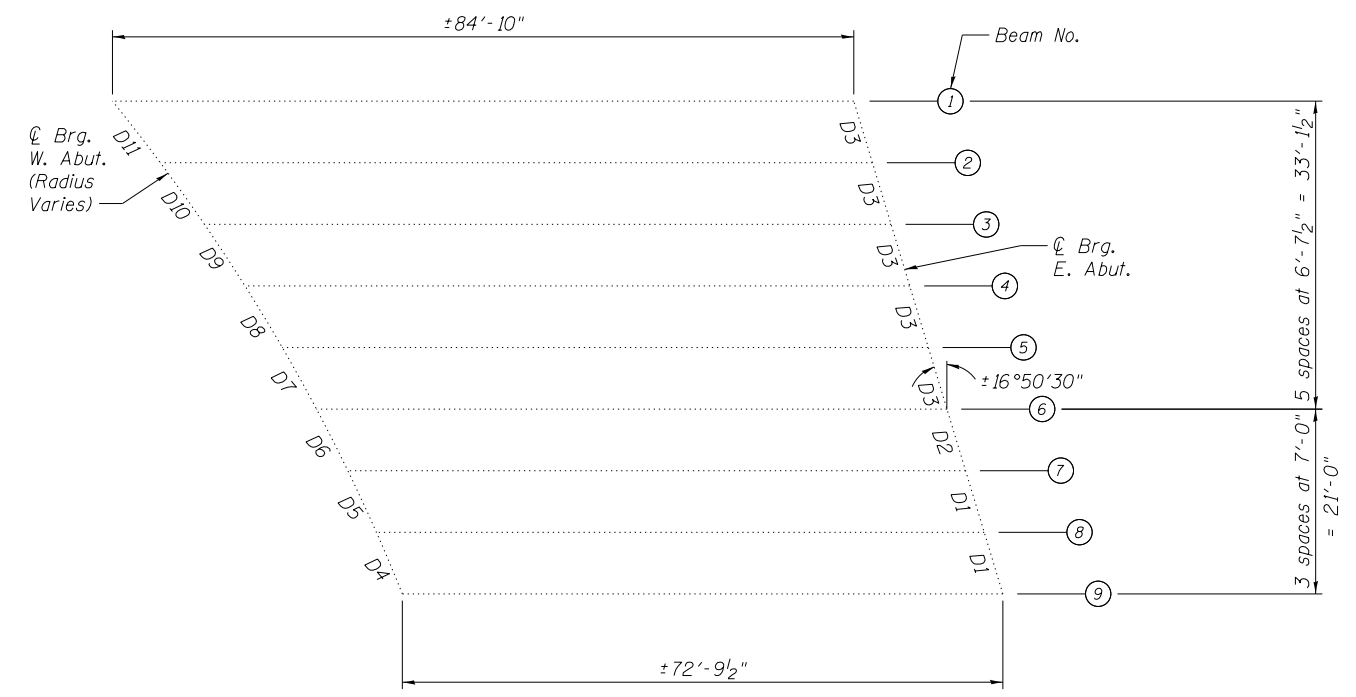
USER NAME =	DESIGNED - CDB	REVISED
	CHECKED - JMH	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 03/22/2018	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HMA OVERLAY
S.N. 082-0014 MLK BRIDGE APPROACH AND RAMP D
OVER RAMP B AND RAMP C

SHEET NO. 2 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	248
			CONTRACT NO. 76G39	
ILLINOIS FED. AID PROJECT				



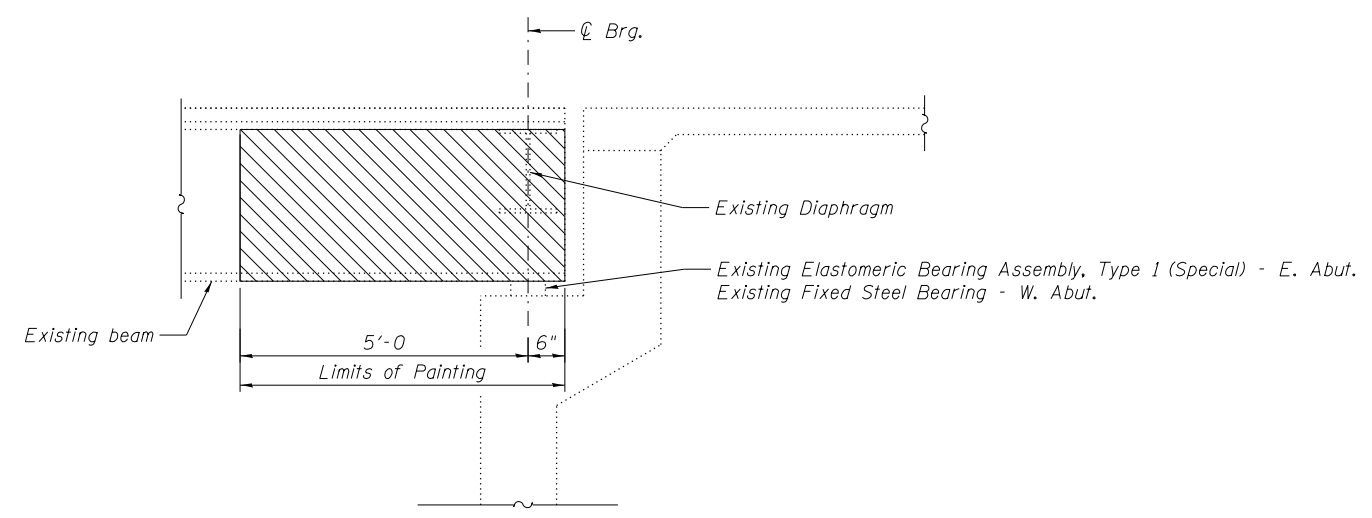
FRAMING PLAN

DIAPHRAGM SCHEDULE

DIAPHRAGM	MATERIAL
D1 thru D2	W12X40
D3	12WF27
D4 thru D6	W12X40
D7 thru D11	12WF27

BEAM SCHEDULE

BEAM	MATERIAL
1	36WF230
2	36WF194
3	36WF194
4	36WF194
5	36WF194
6	36WF194
7	W36X194
8	W36X194
9	W36X194



ELEVATION AT ABUTMENT
East Abutment shown, West Abutment Similar.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Cleaning and Painting Steel Bridge No. 1	L. Sum	1
Containment and Disposal of Non-Lead Paint Cleaning Residues No. 1	L. Sum	1

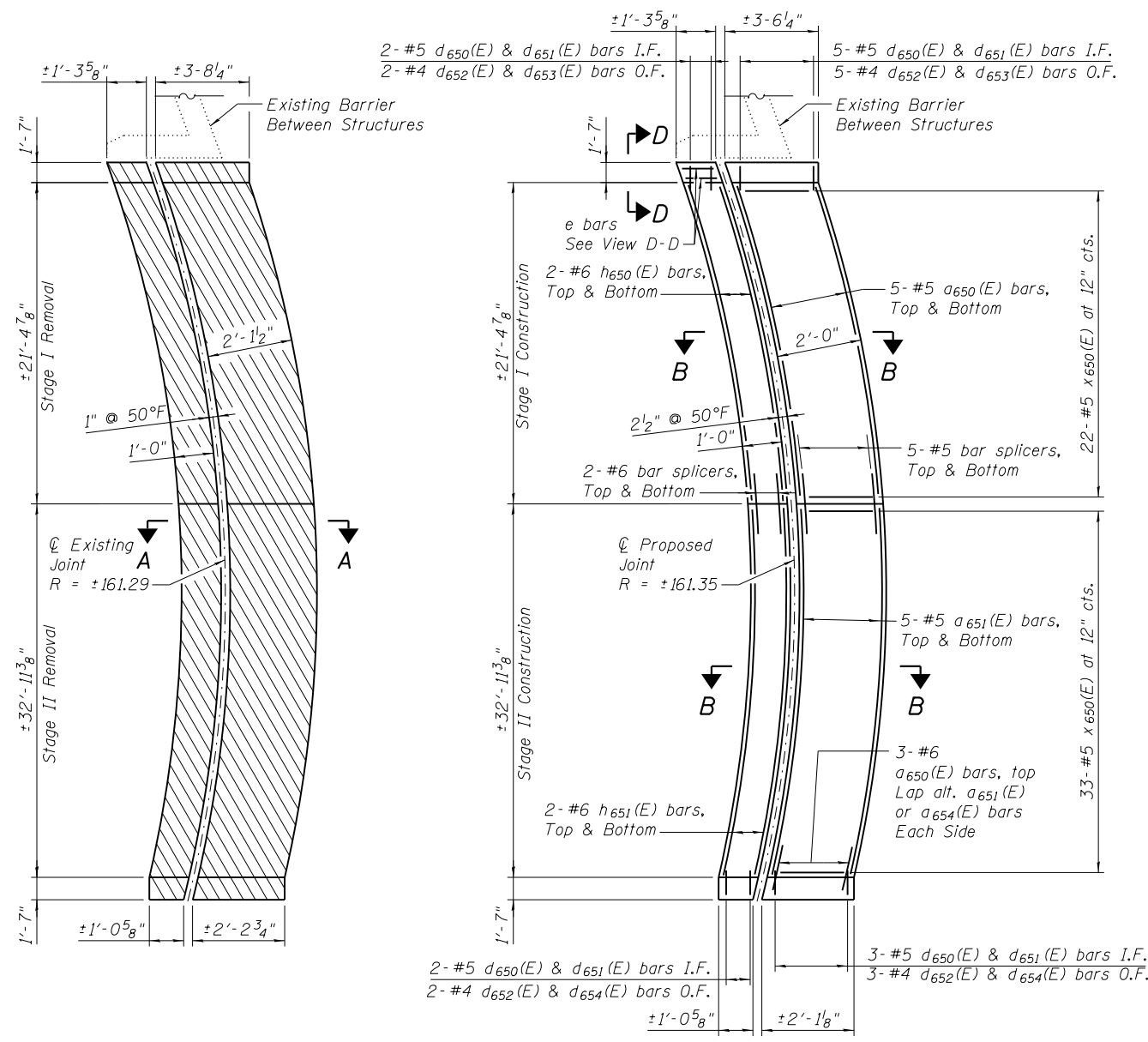
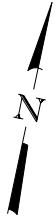


USER NAME =	DESIGNED - CDB	REVISED
	CHECKED - JMH	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 03/22/2018	CHECKED - JMH	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAINTING DETAILS
S.N. 082-0014 MLK BRIDGE APPROACH AND RAMP D
OVER RAMP B AND RAMP C**

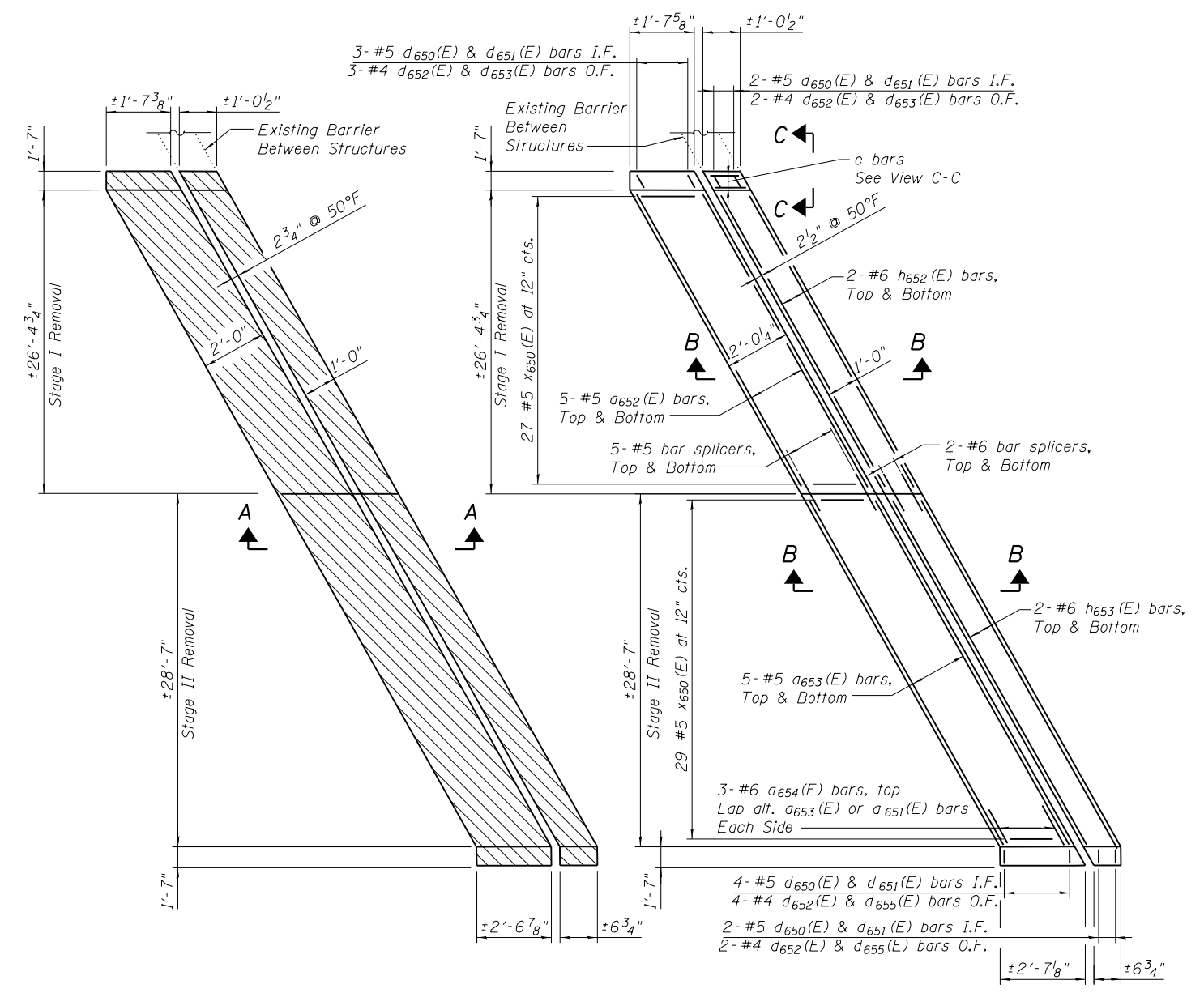
F.A.P. RTE. 799	SECTION 1BR-1-1	COUNTY ST. CLAIR	TOTAL SHEETS 315	SHEET NO. 249
SHEET NO. 3 OF 7 SHEETS			CONTRACT NO. 76C39	
ILLINOIS FED. AID PROJECT				



REMOVAL

REPLACEMENT

PLAN - WEST ABUTMENT



REMOVAL

REPLACEMENT

PLAN - EAST ABUTMENT

Note: Hatched areas indicate removal.

Note:
For Section A-A, B-B, View C-C, D-D, bar details and the Bill of Material, see sheet 5 of 7.

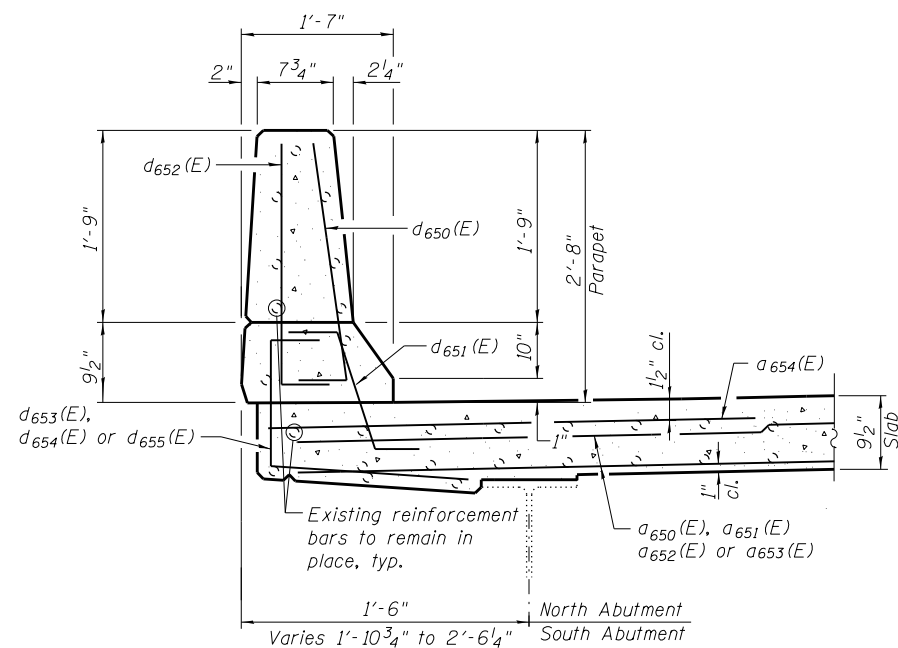


USER NAME =	DESIGNED - CDB	REVISED
PLOT SCALE =	CHECKED - JMH	REVISED
PLOT DATE = 03/22/2018	DRAWN - AEC	REVISED
	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

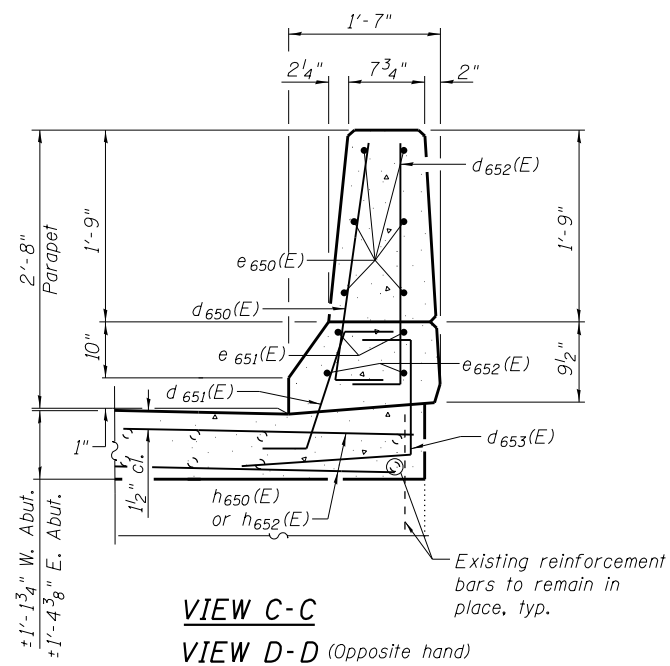
EXPANSION JOINT REPLACEMENT DETAILS - 1
S.N. 082-0014 MLK BRIDGE APPROACH AND RAMP D
OVER RAMP B AND RAMP C

F.A.P. RTE. 799	SECTION IBR-1-1	COUNTY ST. CLAIR	TOTAL SHEETS 315	SHEET NO. 250
SHEET NO. 4 OF 7 SHEETS			CONTRACT NO. 76C39	
ILLINOIS FED. AID PROJECT				



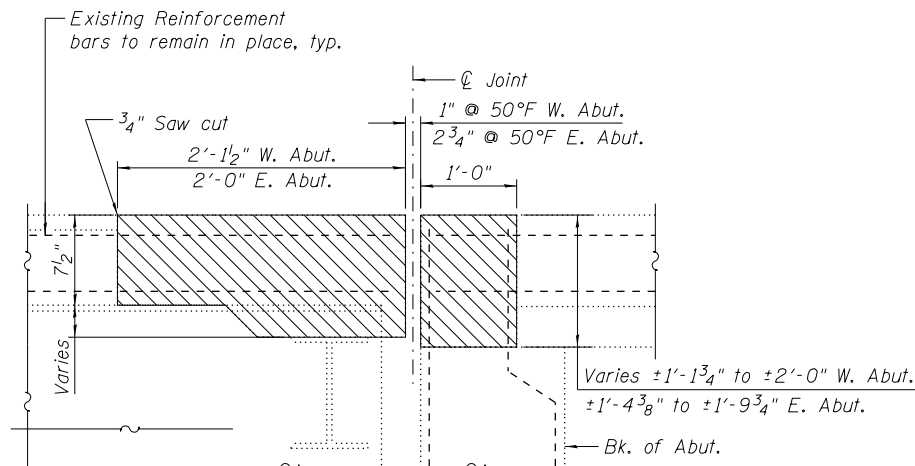
TYPICAL SECTION THRU PARAPET

Dimensions of parapet replacement should match existing parapet dimensions at repair location.



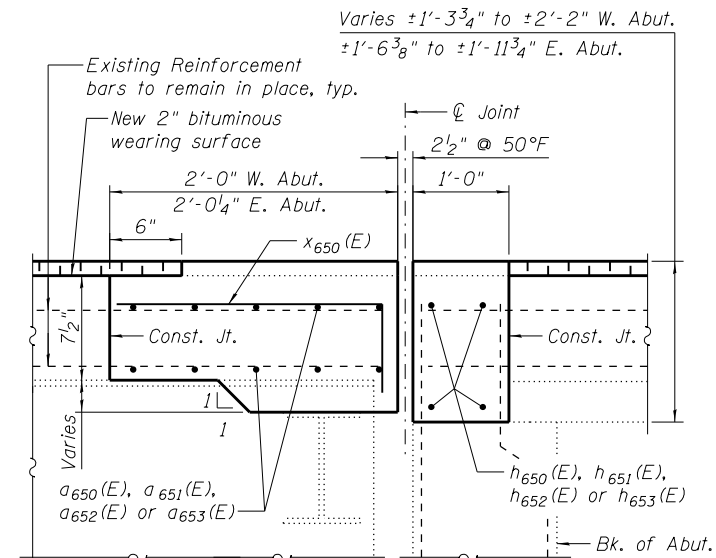
VIEW C-C

VIEW D-D (Opposite hand)



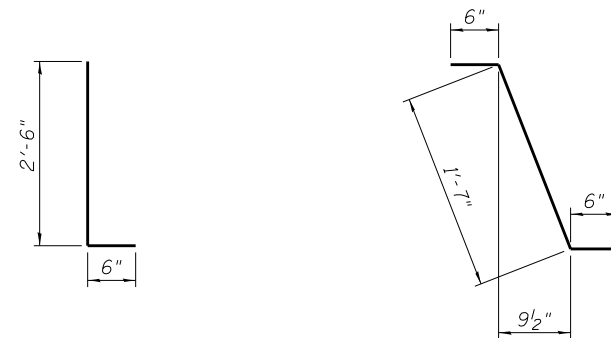
SECTION A-A

(near \varnothing Roadway)



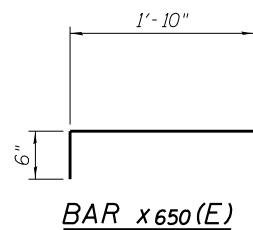
SECTION B-B

(near \varnothing Roadway)

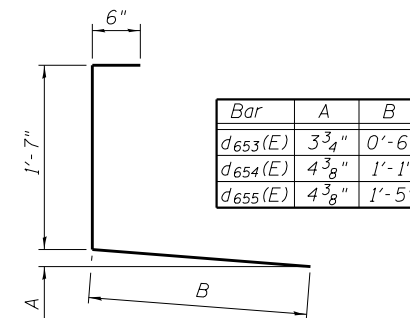


BARS d650(E) & d652(E)

BAR d651(E)



BAR x650(E)



BAR d653(E), d654(E) or d655(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d650 (E)	10	#5	25'-3"	U
d651 (E)	10	#5	38'-9"	U
d652 (E)	10	#5	28'-11"	U
d653 (E)	10	#5	31'-3"	U
d654 (E)	12	#5	6'-6"	U
d650 (E)	23	#5	3'-0"	U
d651 (E)	23	#5	2'-7"	U
d652 (E)	23	#4	3'-0"	U
d653 (E)	12	#4	2'-7"	U
d654 (E)	5	#4	3'-2"	U
d655 (E)	6	#4	3'-6"	U
e650 (E)	12	#4	0'-9"	U
e651 (E)	4	#8	0'-9"	U
e652 (E)	4	#5	0'-9"	U
h650 (E)	4	#6	25'-3"	U
h651 (E)	4	#6	38'-9"	U
h652 (E)	4	#6	28'-11"	U
h653 (E)	4	#6	31'-3"	U
x650 (E)	111	#5	2'-4"	U
Concrete Removal		Cu. Yd.	16.4	
Concrete Superstructure		Cu. Yd.	18.6	
Protective Coat		Sq. Yd.	72	
Reinforcement Bars, Epoxy Coated		Pound	2,680	

Note: Hatched areas indicate removal.



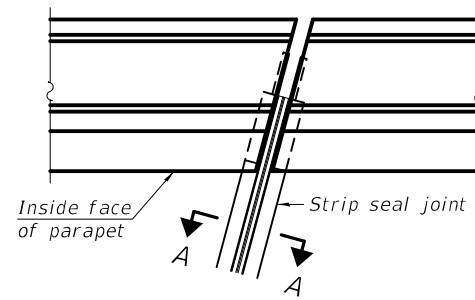
USER NAME =	DESIGNED - CDB	REVISED
PLOT SCALE =	CHECKED - JMH	REVISED
PLOT DATE = 03/22/2018	DRAWN - AEC	REVISED
	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REPLACEMENT DETAILS - 2
S.N. 082-0014 MLK BRIDGE APPROACH AND RAMP D
OVER RAMP B AND RAMP C

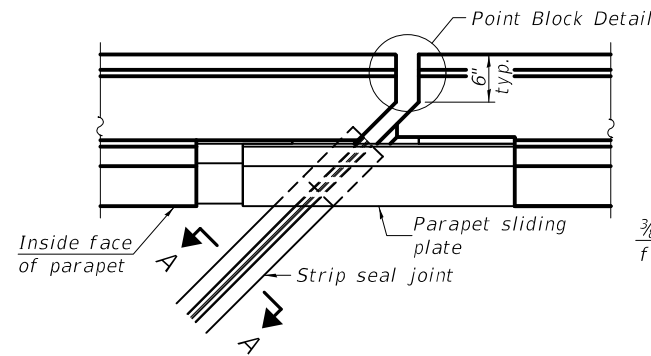
SHEET NO. 5 OF 7 SHEETS

F.A.P. RTE. 799	SECTION IBR-1-1	COUNTY ST. CLAIR	TOTAL SHEETS 315	SHEET NO. 251
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76C39	

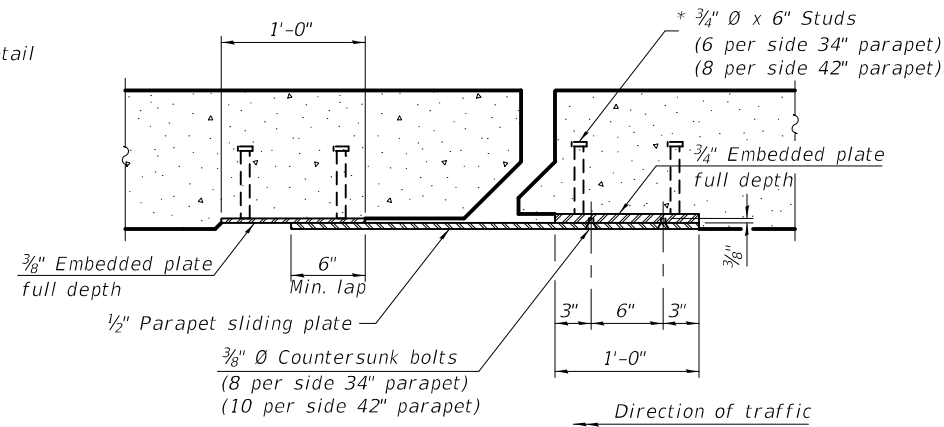


FOR SKEWS $\leq 30^\circ$

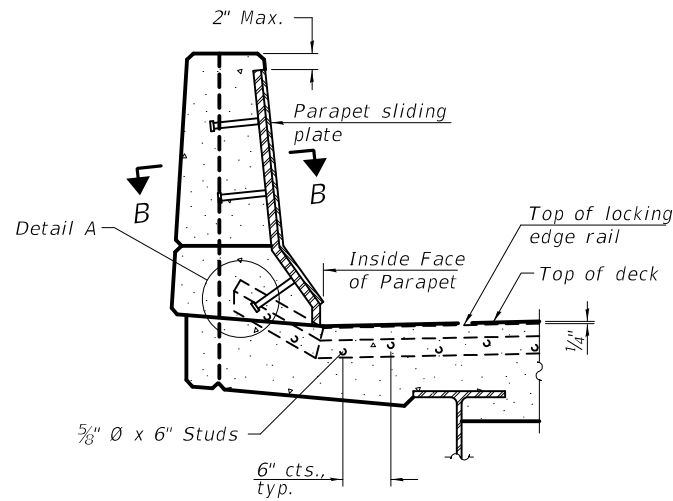
PLAN AT PARAPET



FOR SKEWS $> 30^\circ$

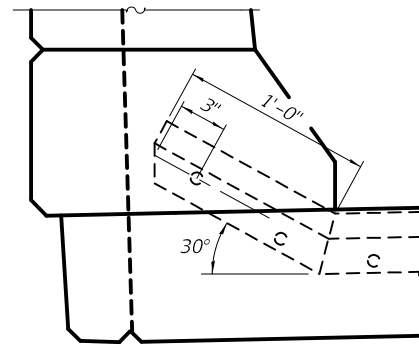


SECTION B-B

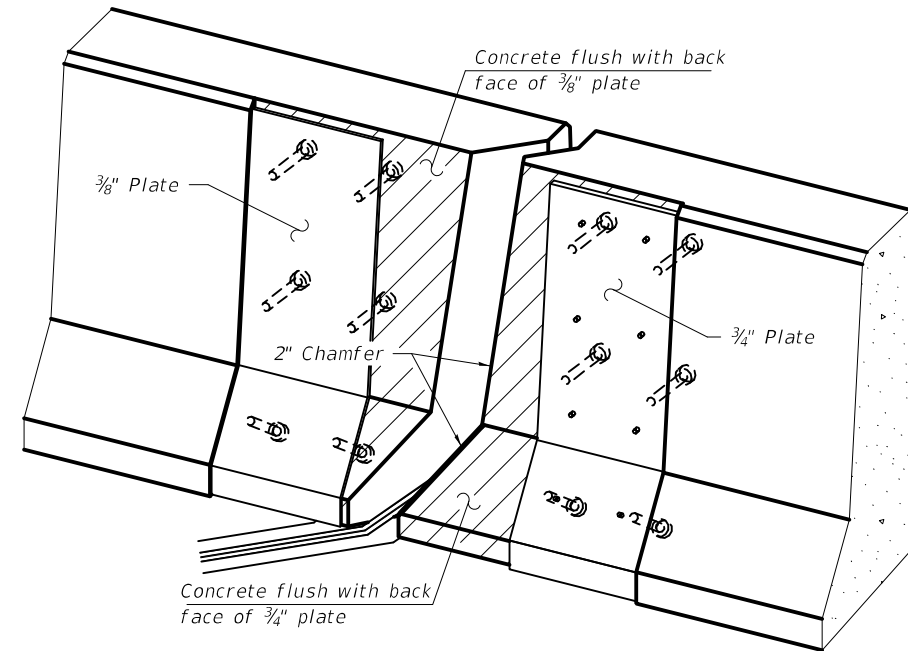


ELEVATION AT PARAPET

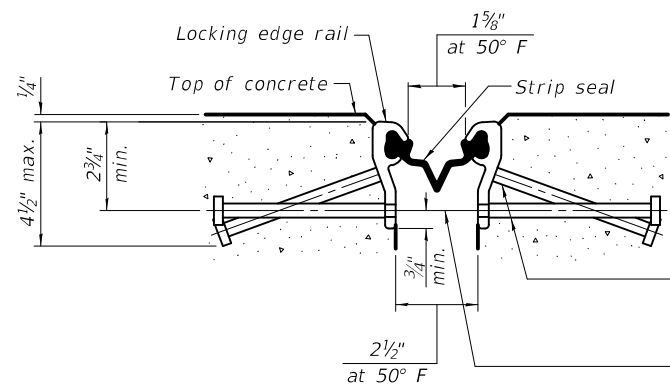
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW
(Showing embedded plates only)



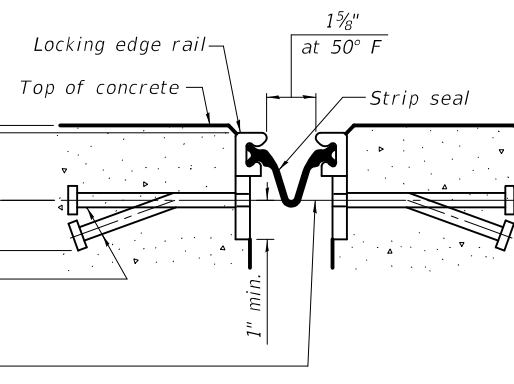
SHOWING ROLLED RAIL JOINT

* $5/8"$ ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

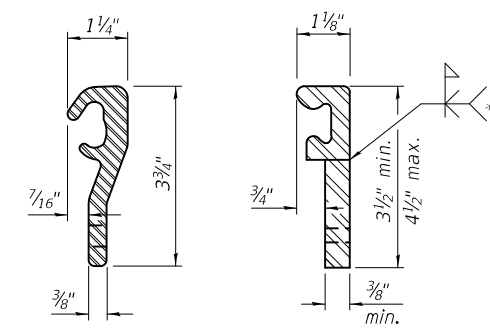
$3/8"$ ϕ threaded rods in $7/16"$ ϕ holes at $\pm 4'-0"$ cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

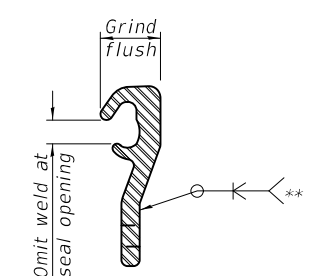


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	125.0

EJ-SS

8-11-17



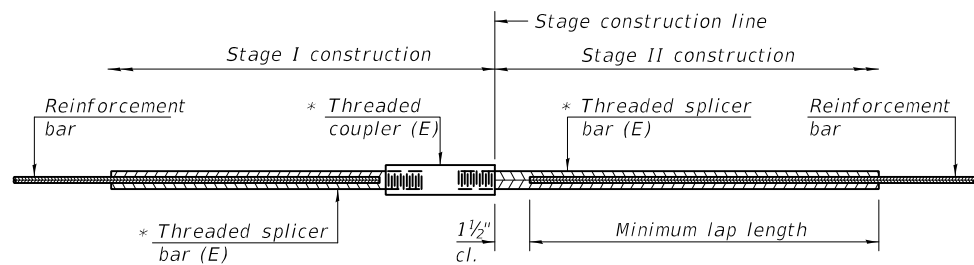
USER NAME =	DESIGNED - CDB	REVISED
PLOT SCALE =	CHECKED - JMH	REVISED
PLOT DATE = 03/22/2018	DRAWN - AEC	REVISED
	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
S.N. 082-0014 MLK BRIDGE APPROACH AND RAMP D
OVER RAMP B AND RAMP C

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	252
CONTRACT NO. 76C39				
ILLINOIS FED. AID PROJECT				

SHEET NO. 6 OF 7 SHEETS

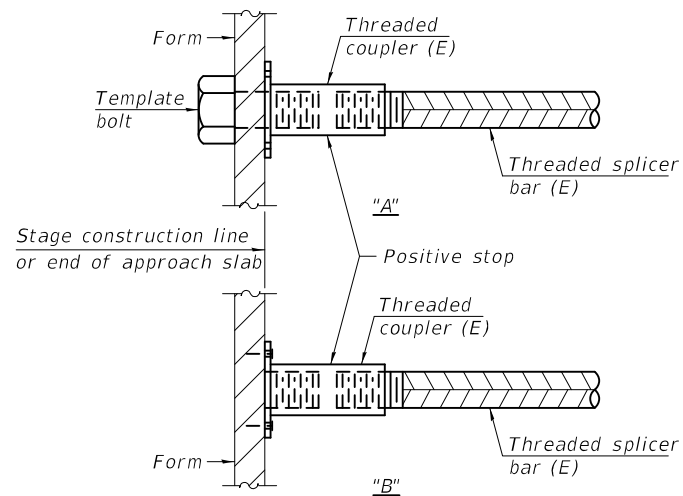


STANDARD BAR SPLICER ASSEMBLY

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

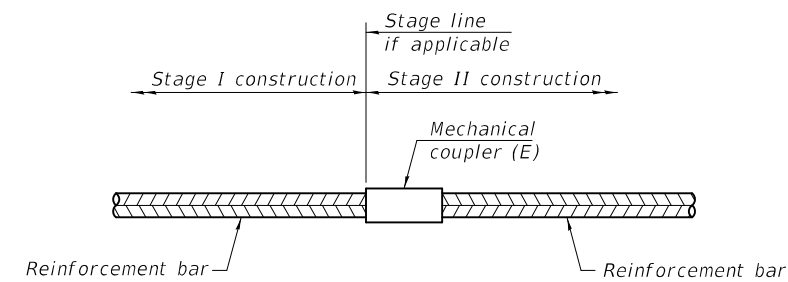
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
W. Abut. Backwall	#6	4	4'-10"
Slab at W. Abut.	#5	10	3'-6"
Slab at E. Abut.	#5	10	3'-6"
E. Abut. Backwall	#6	4	4'-10"



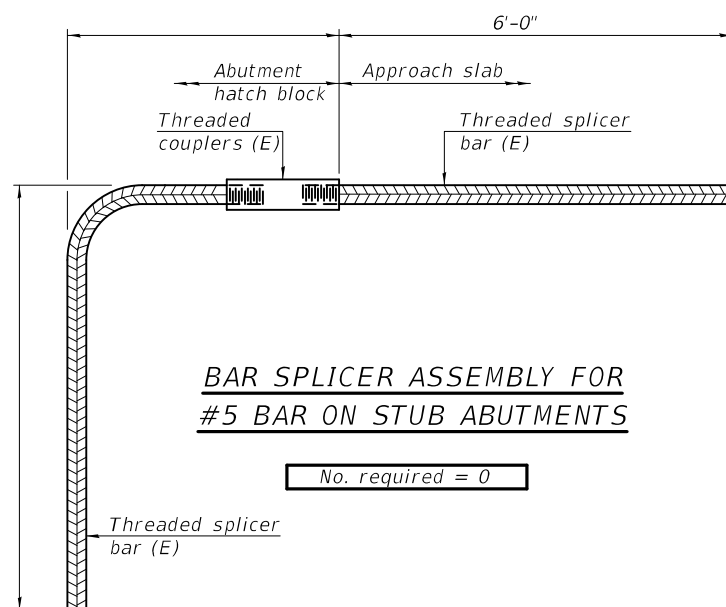
INSTALLATION AND SETTING METHODS

"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



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required = 0

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

2-17-2017



USER NAME =	DESIGNED - CDB	REVISED
	CHECKED - JMH	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 03/22/2018	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
S.N. 082-0014 MLK BRIDGE APPROACH AND RAMP D
OVER RAMP B AND RAMP C

SHEET NO. 7 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	253
CONTRACT NO. 76G39				

ILLINOIS FED. AID PROJECT

The structure is to remain open to traffic during construction. Ramp B and C are to be closed to traffic during construction.

GENERAL NOTES

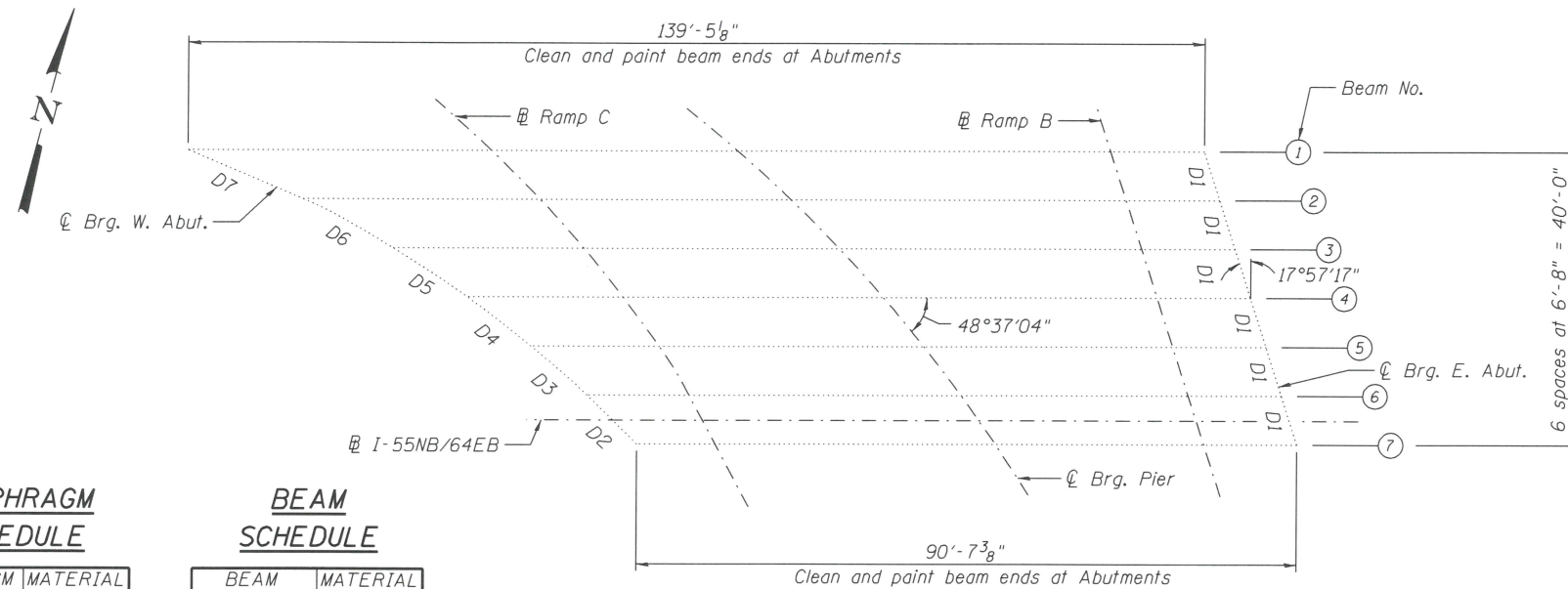
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for Cleaning and Painting Existing Steel Structures. Areas to be cleaned and painted shall consist of all beam ends, end diaphragms and steel components of the steel bearings at the abutments. Beam end painting shall extend 5 feet from centerline bearing longitudinally. This surface preparation shall be accomplished according to the requirements of Near-White Metal Blast Cleaning SSPC-SP10. The paint system shall be applied as specified for System I OZ/E/U. The color of the final finish coat shall be Grey, Munsell No. 5B 7/1.

Care shall be taken not to damage rubber bearing or joint components during the blasting and cleaning operations. Any damage to these components shall be repaired at the Contractor's expense.

Complete cost of painting the locations described on this sheet shall be considered included with the pay item Cleaning and Painting Steel Bridge No. 2.

Existing Structure Plans are available for review in the District office. Contact Herve Gelin at (618) 346-3179.



FRAMING PLAN

(S.N. 082-0023; Bridge No. 2)

DIAPHRAGM SCHEDULE

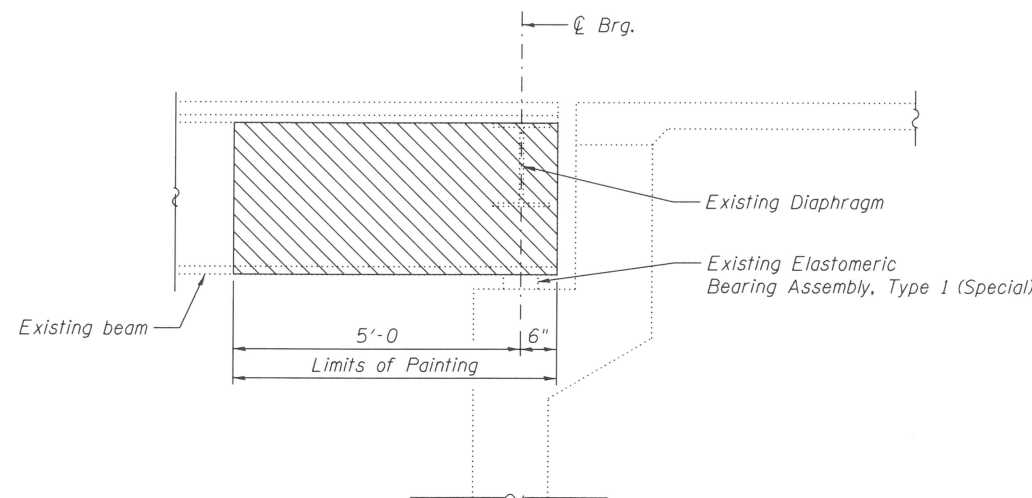
DIAPHRAGM	MATERIAL
D1	12WF27
D2	14WF30
D3	16WF36
D4	16WF36
D5	16WF36
D6	16WF36
D7	16WF40

BEAM SCHEDULE

BEAM	MATERIAL
1	36WF194
2	33WF141
3	33WF141
4	33WF141
5	33WF130
6	33WF130
7	36WF150

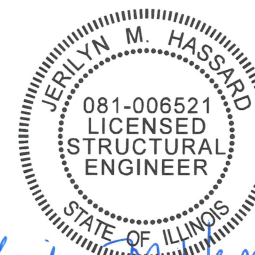
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Cleaning and Painting Steel Bridge No. 2	L. Sum	1	-	1
Containment and Disposal of Non-Lead Paint Cleaning Residues No. 2	L. Sum	1	-	1



ELEVATION AT ABUTMENT

East Abutment shown, West Abutment Similar.



Jerilyn M. Hassard
03-22-18

JERILYN M. HASSARD
EDWARDSVILLE, ILLINOIS
ILLINOIS LICENSED STRUCTURAL
ENGINEER NO. 081-006521
EXPIRES 11/30/2018



USER NAME =	DESIGNED - CDB	REVISED
PLOT SCALE =	CHECKED - JMH	REVISED
PLOT DATE = 03/22/2018	DRAWN - AEC	REVISED
	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN, GENERAL NOTES, AND PAINTING DETAILS
S.N. 082-0023 I-55NB64EB
OVER RAMP B AND RAMP C

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	254
CONTRACT NO. 76G39				
ILLINOIS FED. AID PROJECT				

SHEET NO. 1 OF 1 SHEETS

The structure and Ramp B are to be completely closed to traffic during construction.

No salvage.

GENERAL NOTES

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Existing reinforcement shall be cleaned and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.

Surface preparation at the construction joints shall be performed using high-pressurized water spray, using equipment capable of producing a minimum water pressure of 5000 psi.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for Cleaning and Painting Existing Steel Structures. Areas to be cleaned and painted shall consist of all beam ends, end diaphragms and steel components of the steel bearings at the abutments. Beam end painting shall extend 5 feet from centerline bearing of beams longitudinally. This surface preparation shall be accomplished according to the requirements of Near-White Metal Blast Cleaning SSPC-SF10. The paint system shall be applied as specified for System 1 OZ/E/U. The color of the final finish coat shall be Grey, Munsell No. 5B 7/1.

Complete cost of painting the locations described on this sheet shall be considered included with the pay item Cleaning and Painting Steel Bridge No. 3.

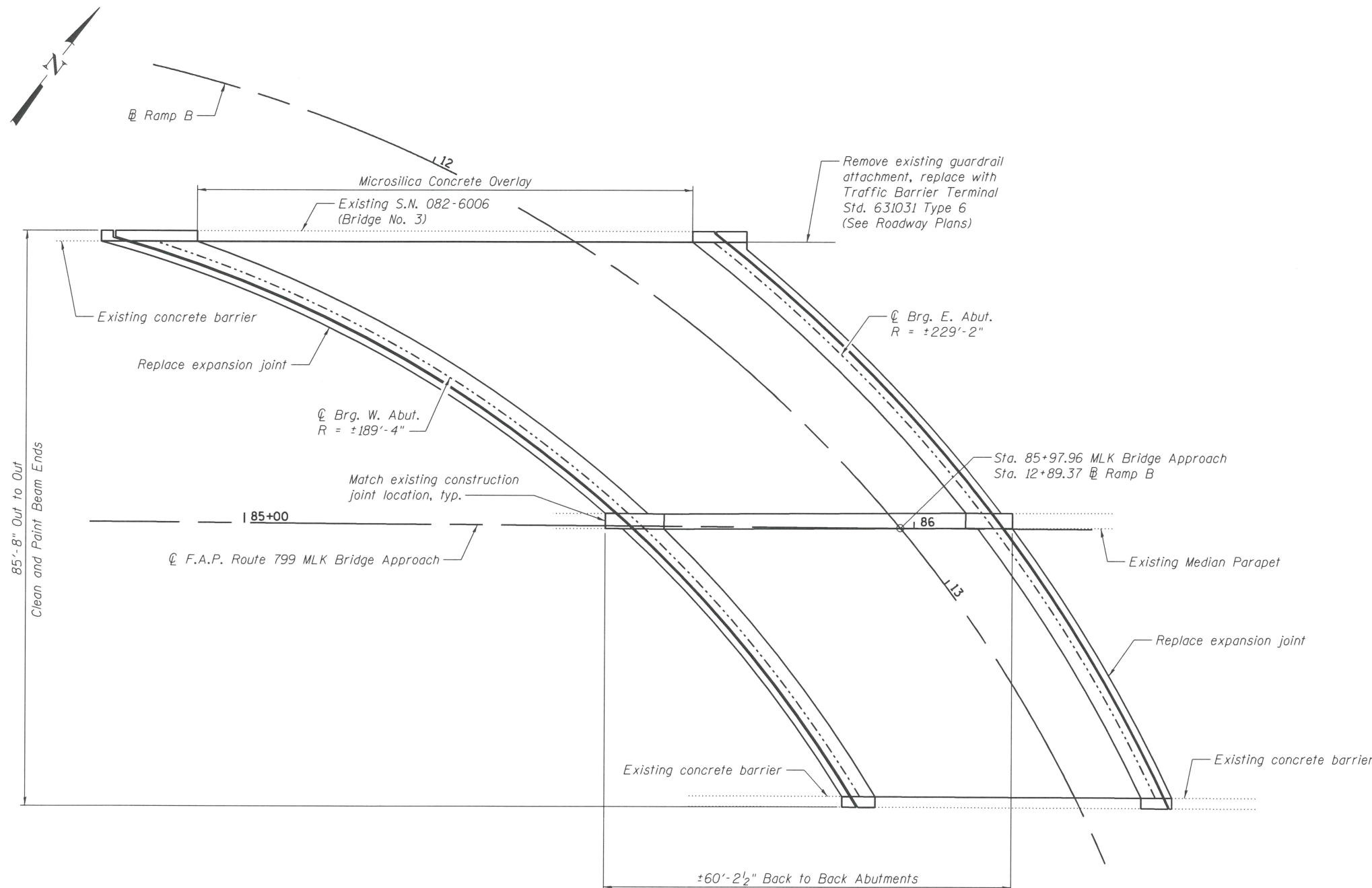
Care shall be taken not to damage rubber bearing or joint components during the blasting and cleaning operations. Any damage to these components shall be repaired at the Contractor's expense.

Bridge deck scarification and microsilica concrete overlay shall be as specified in the special provision for Bridge Deck Microsilica Overlay.

Protective coat shall only be applied to the deck and parapets (top and inside faces) adjacent to the proposed expansion joints and not the microsilica overlay.

Existing Structure Plans are available for review in the District office. Contact Herve Gelin at (618) 346-3179.

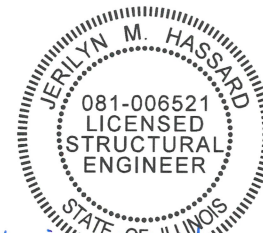
Synthetic fibers shall be added to the bridge deck microsilica concrete overlay. See Special Provisions.



PLAN

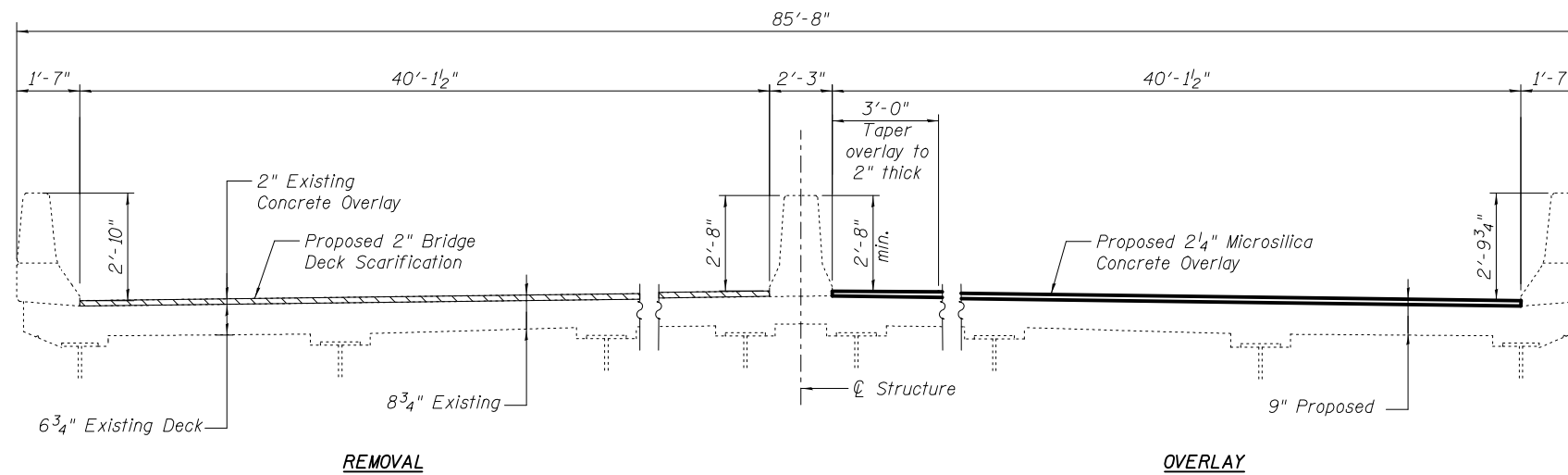
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	47.6	-	47.6
Concrete Superstructure	Cu. Yd.	48.9	-	48.9
Bridge Deck Grooving	Sq. Yd.	572	-	572
Protective Coat	Sq. Yd.	117	-	117
Reinforcement Bars, Epoxy Coated	Pound	6,170	-	6,170
Preformed Joint Strip Seal	Foot	251.0	-	251.0
Cleaning and Painting Steel Bridge No. 3	L. Sum	1	-	1
Bridge Deck Scarification 2"	Sq. Yd.	540.5	-	540.5
Bridge Deck Microsilica Concrete Overlay 2 1/4"	Sq. Yd.	540.5	-	540.5
Containment and Disposal of Non-Lead Paint Cleaning Residues No. 3	L. Sum	1	-	1



Jerilyn M. Hassard
 JERILYN M. HASSARD
 EDWARDSVILLE, ILLINOIS
 ILLINOIS LICENSED STRUCTURAL
 ENGINEER NO. 081-006521
 EXPIRES 11/30/2018

03-22-18



CROSS SECTION

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Bridge Deck Grooving	Sq. Yd.	572
Bridge Deck Scarification 2"	Sq. Yd.	540.5
Bridge Deck Microsilica Concrete Overlay 2 1/4"	Sq. Yd.	540.5



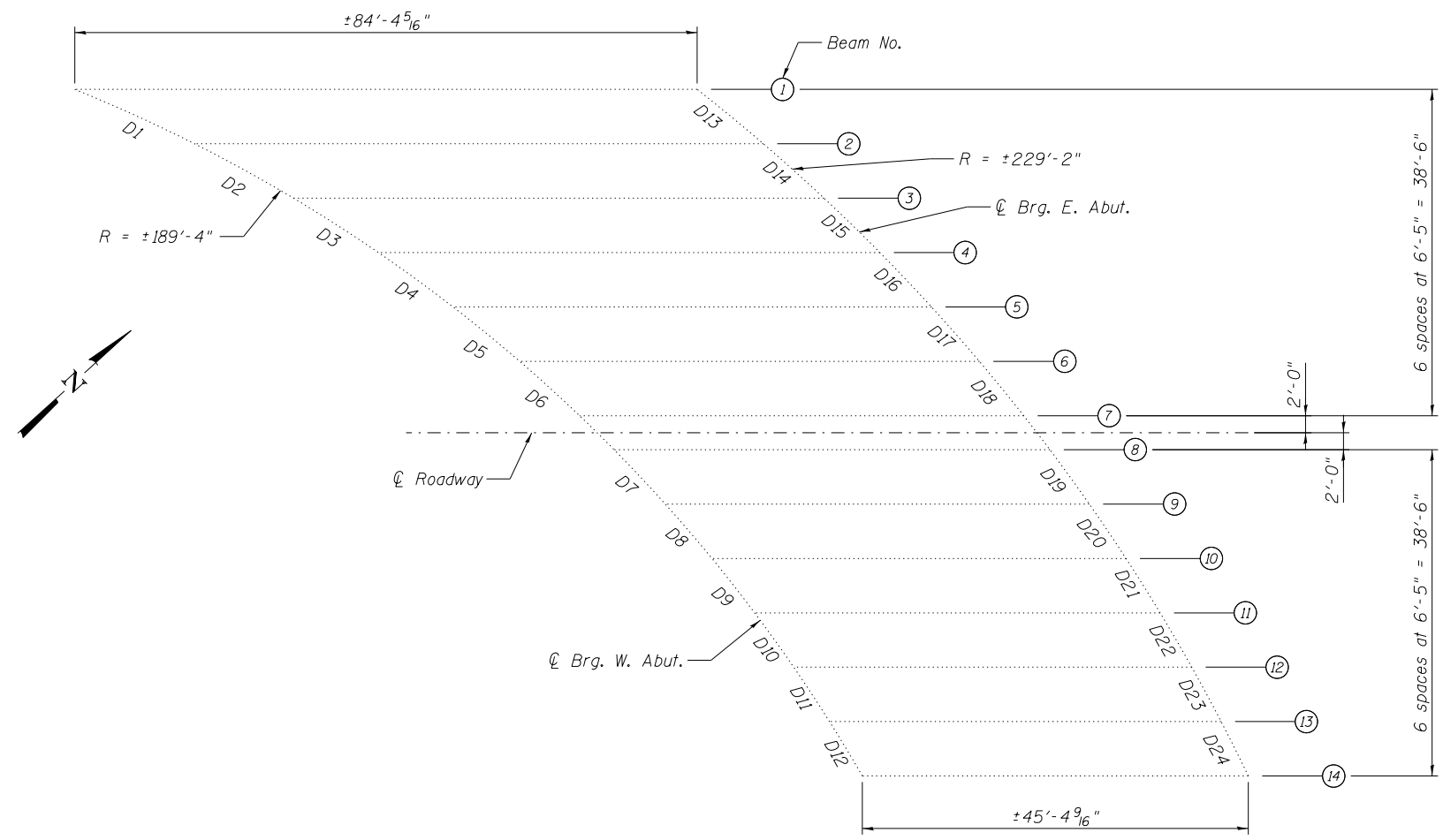
USER NAME =	DESIGNED - CDB	REVISED
	CHECKED - JMH	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 03/22/2018	CHECKED - JMH	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MICROSILICA CONCRETE OVERLAY
S.N. 082-6006 MLK BRIDGE APPROACH OVER RAMP B**

SHEET NO. 2 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	256
			CONTRACT NO. 76G39	
ILLINOIS FED. AID PROJECT				



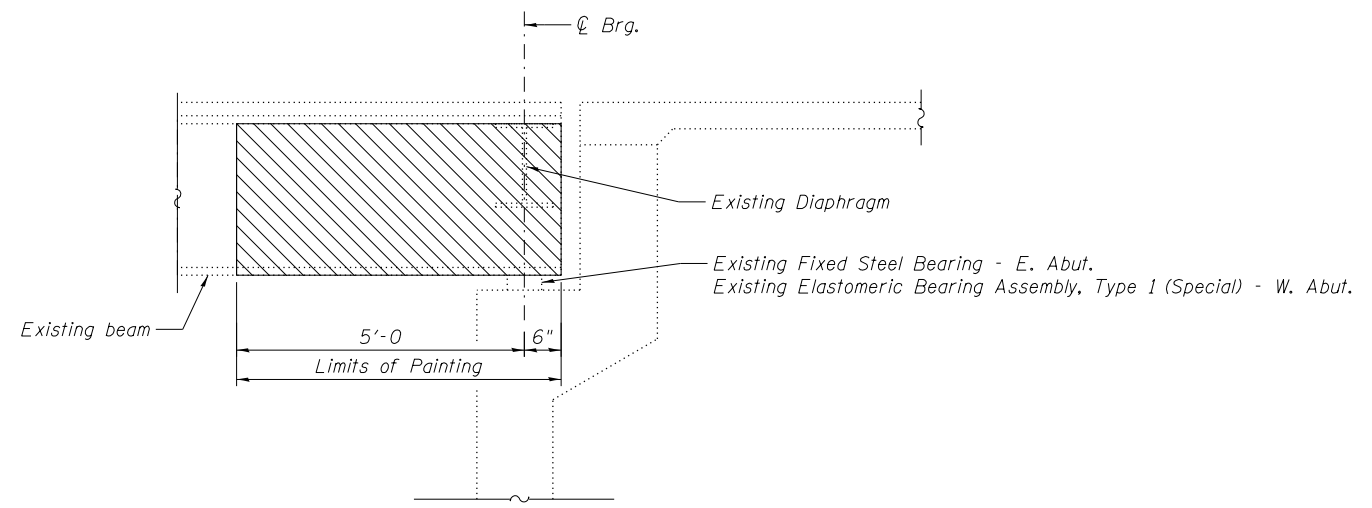
FRAMING PLAN

DIAPHRAGM SCHEDULE

DIAPHRAGM	MATERIAL
D1 thru D7	16WF36
D13 thru D15	16WF36
D8 thru D12	14WF30
D16 thru D24	14WF30

BEAM SCHEDULE

BEAM	MATERIAL
1	36WF194
2	36WF194
3	36WF150
4	36WF150
5	36WF150
6	36WF150
7	36WF150
8	36WF150
9	36WF150
10	36WF150
11	36WF150
12	36WF150
13	36WF150
14	36WF150



ELEVATION AT ABUTMENT
East Abutment shown, West Abutment Similar.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Cleaning and Painting Steel Bridge No. 3	L. Sum	1
Containment and Disposal of Non-Lead Paint Cleaning Residues No. 3	L. Sum	1



USER NAME =	DESIGNED - CDB	REVISED
	CHECKED - JMH	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 03/22/2018	CHECKED - JMH	REVISED

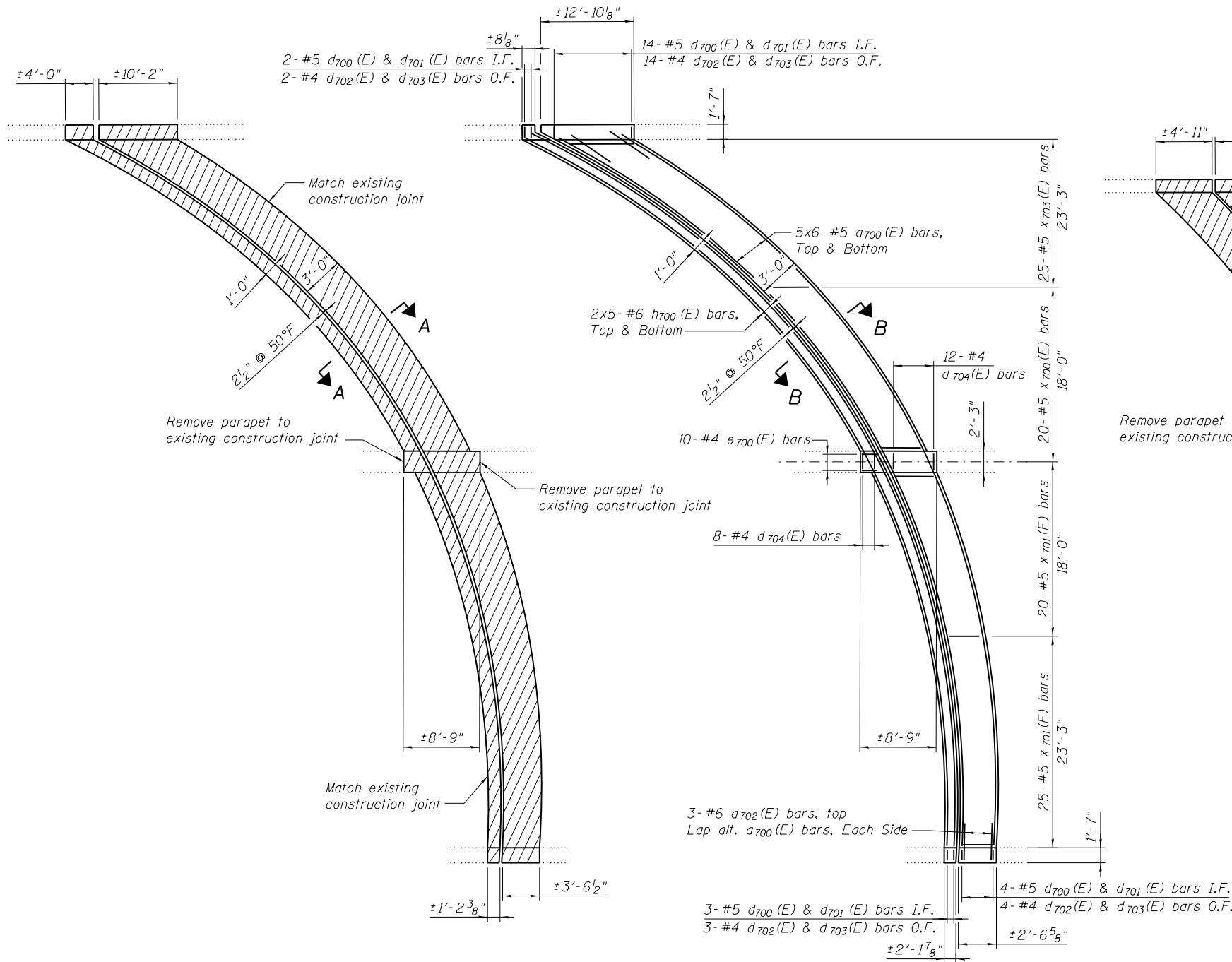
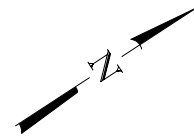
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAINTING DETAILS
S.N. 082-6006 MLK BRIDGE APPROACH OVER RAMP B**

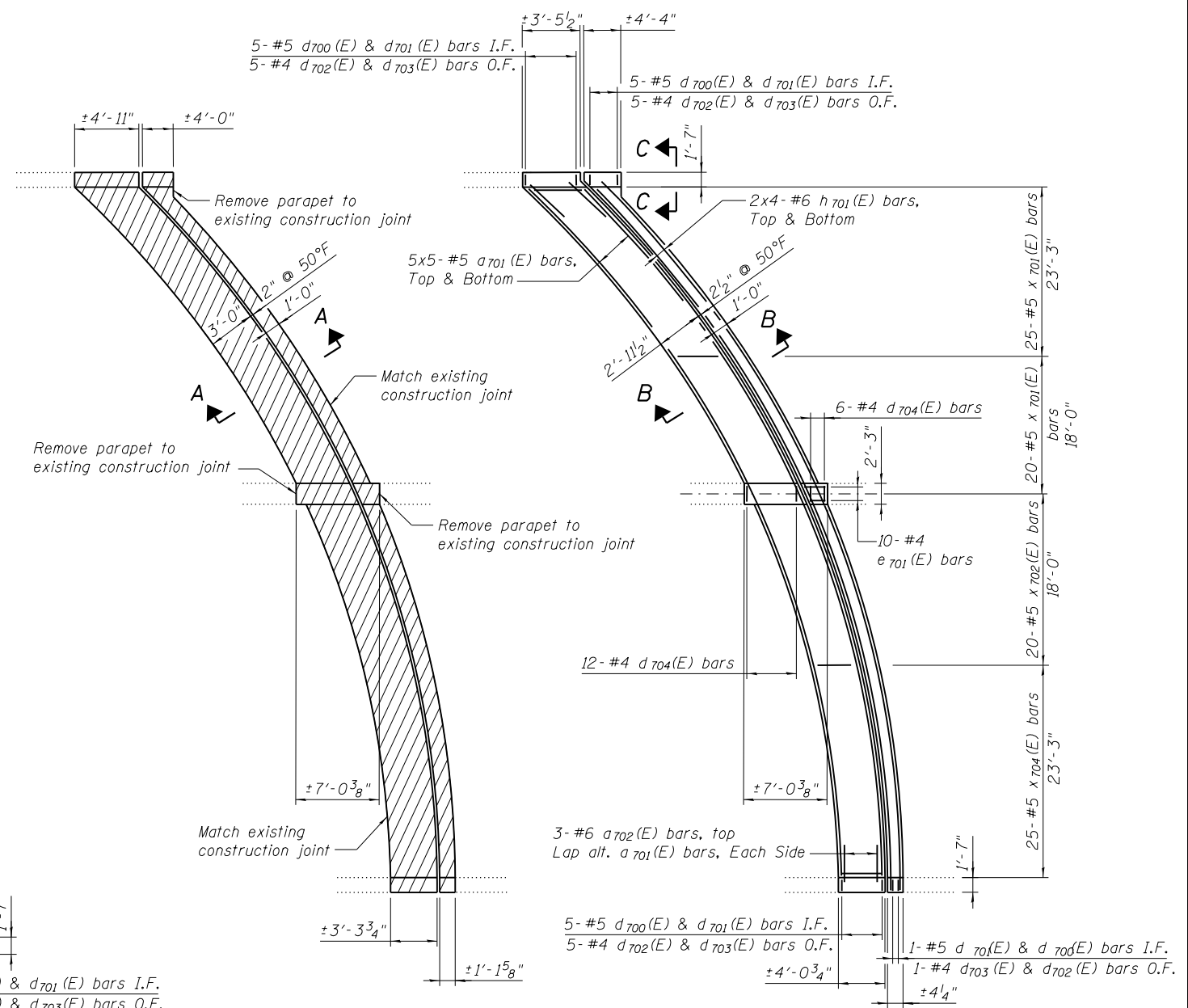
SHEET NO. 3 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	257
CONTRACT NO. 76G39				

ILLINOIS FED. AID PROJECT



PLAN - WEST ABUTMENT



PLAN - EAST ABUTMENT

Notes:
 Bars indicated thus 5x6-#5 etc. indicates 5 lines of bars with 6 lengths per line.
 For Section A-A, B-B, View C-C and the Bill of Material, see sheet 5 of 6.



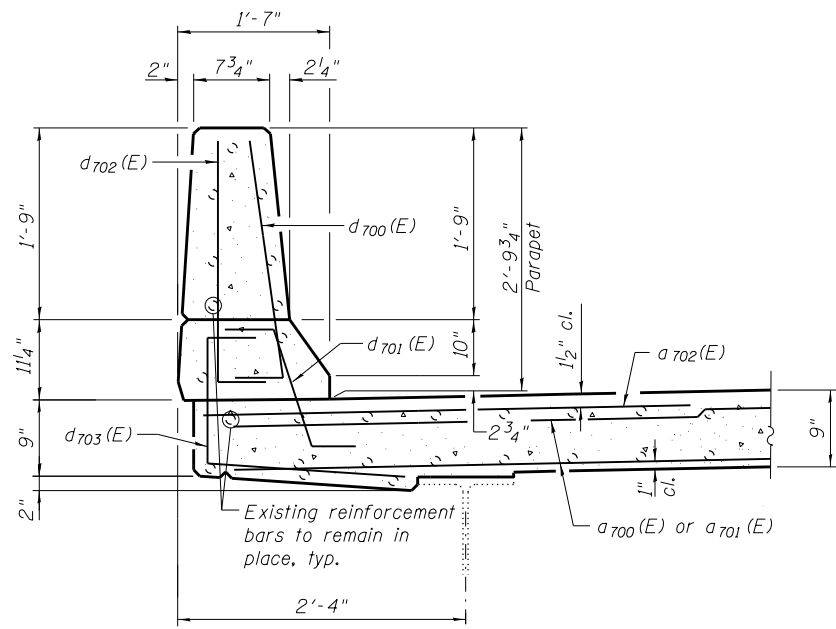
USER NAME =	DESIGNED - CDB	REVISED
	CHECKED - JMH	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 03/22/2018	CHECKED - JMH	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

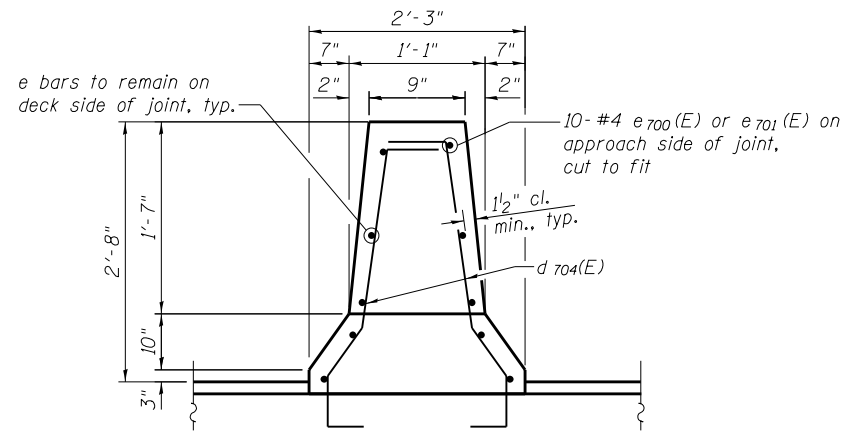
EXPANSION JOINT REPLACEMENT DETAILS - 1
 S.N. 082-6006 MLK BRIDGE APPROACH OVER RAMP B

SHEET NO. 4 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	258
CONTRACT NO. 76C39				
ILLINOIS FED. AID PROJECT				

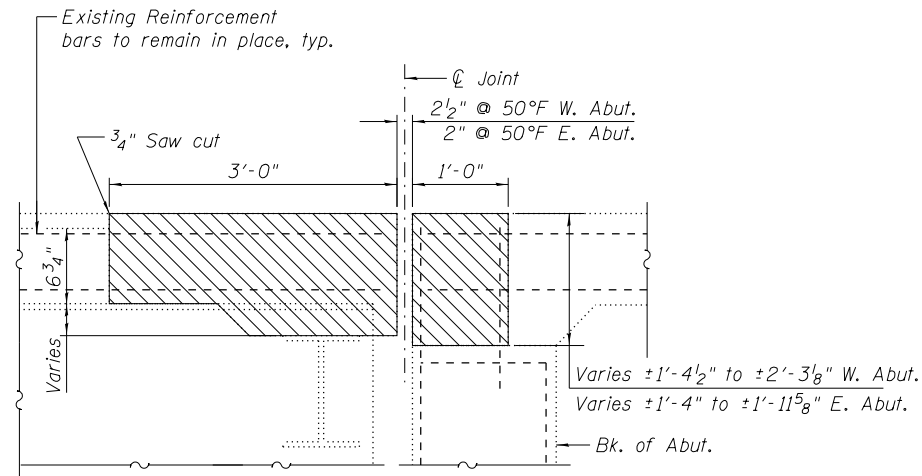


TYPICAL PARAPET SECTION



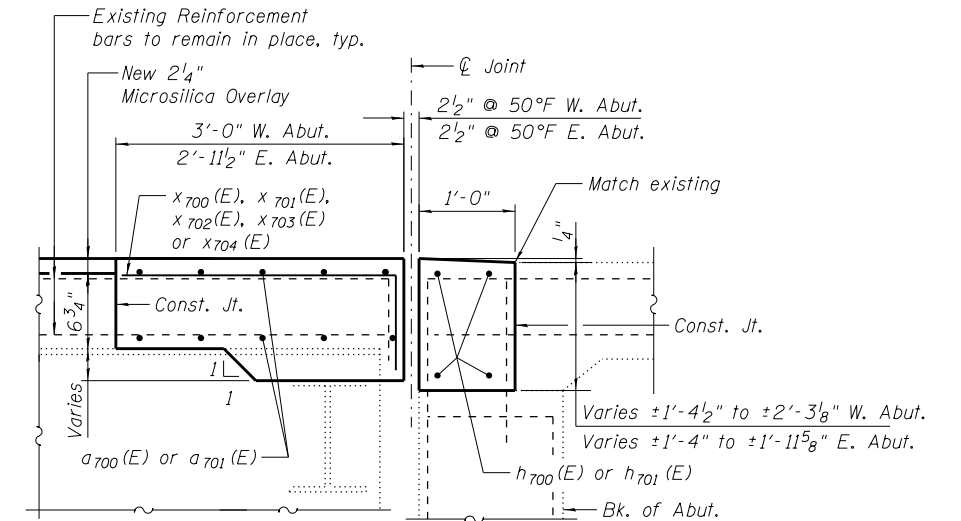
SECTION THRU MEDIAN BARRIER

Note: Section and reinforcement replaced in kind.



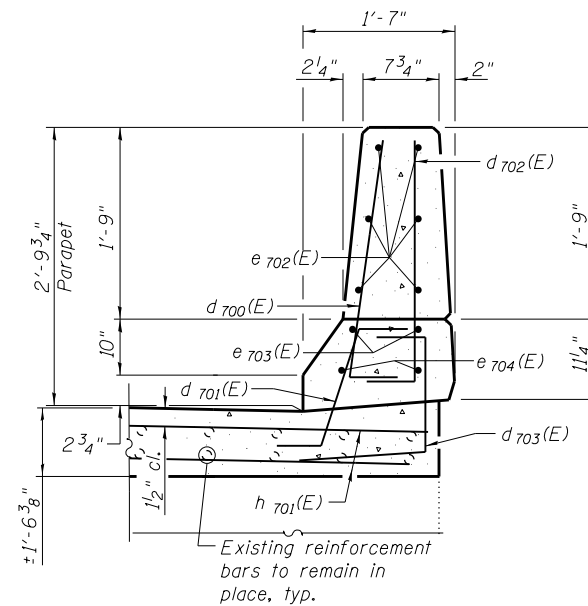
SECTION A-A

(near \varnothing Roadway)

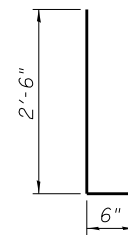
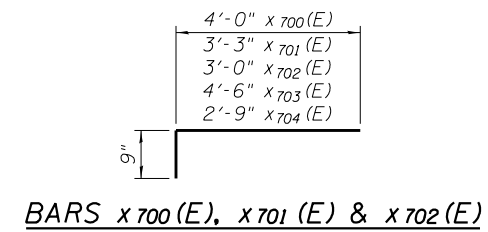


SECTION B-B

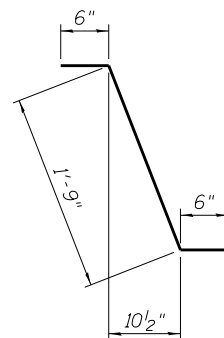
(near \varnothing Roadway)



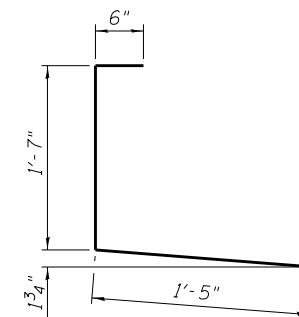
VIEW C-C



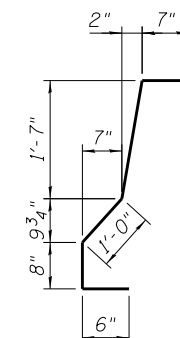
BARS d700(E) & d702(E)



BAR d701(E)



BAR d703(E)



BAR d704(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d700 (E)	60	#5	26'-4"	—
d701 (E)	50	#5	25'-1"	—
d702 (E)	12	#6	6'-6"	—
d700 (E)	39	#5	3'-0"	┌
d701 (E)	39	#5	2'-9"	└
d702 (E)	39	#4	3'-0"	┌
d703 (E)	39	#4	3'-6"	└
d704 (E)	38	#4	4'-4"	┌
e700 (E)	10	#4	4'-5"	—
e701 (E)	10	#4	4'-0"	—
e702 (E)	6	#4	3'-7"	—
e703 (E)	2	#8	3'-7"	—
e704 (E)	2	#5	3'-7"	—
h700 (E)	20	#6	31'-8"	—
h701 (E)	16	#6	31'-8"	—
x700 (E)	20	#5	4'-9"	┌
x701 (E)	90	#5	4'-0"	└
x702 (E)	20	#5	3'-9"	┌
x703 (E)	25	#5	5'-3"	└
x704 (E)	25	#5	3'-6"	┌
Concrete Removal		Cu. Yd.	47.6	
Concrete Superstructure		Cu. Yd.	48.9	
Protective Coat		Sq. Yd.	117	
Reinforcement Bars, Epoxy Coated		Pound	6,170	

MINIMUM BAR LAP

#5 bar = 3'-6"
#6 bar = 4'-5"

Note: Hatched areas indicate removal.



USER NAME =	DESIGNED - CDB	REVISED
	CHECKED - JMH	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 03/22/2018	CHECKED - JMH	REVISED

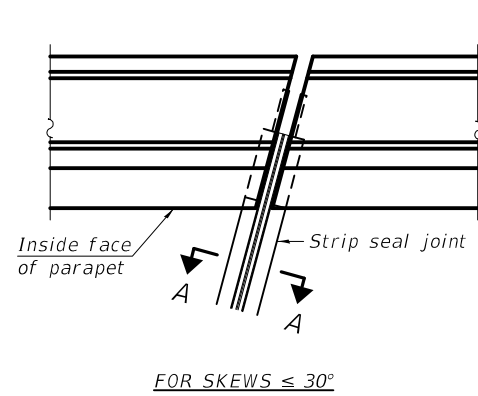
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REPLACEMENT DETAILS - 2
S.N. 082-6006 MLK BRIDGE APPROACH OVER RAMP B

SHEET NO. 5 OF 6 SHEETS

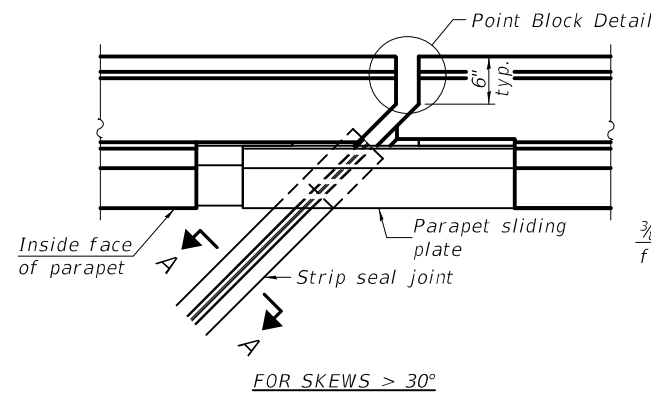
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	259
CONTRACT NO. 76C39				

ILLINOIS FED. AID PROJECT

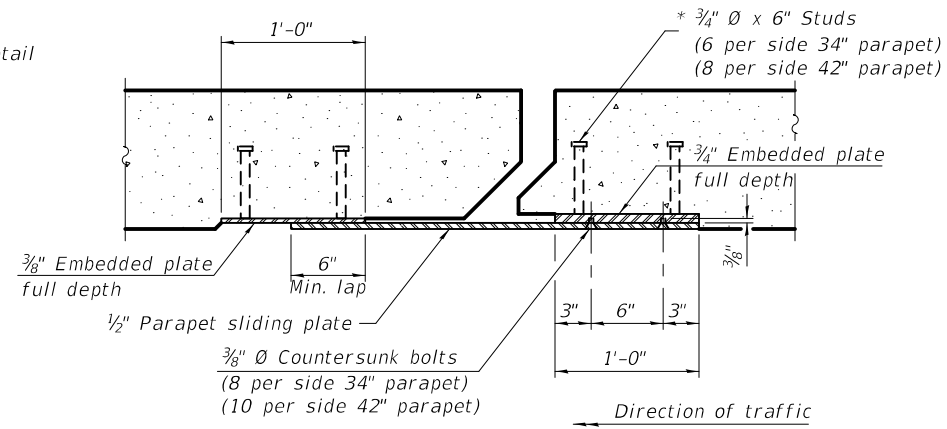


FOR SKEWS $\leq 30^\circ$

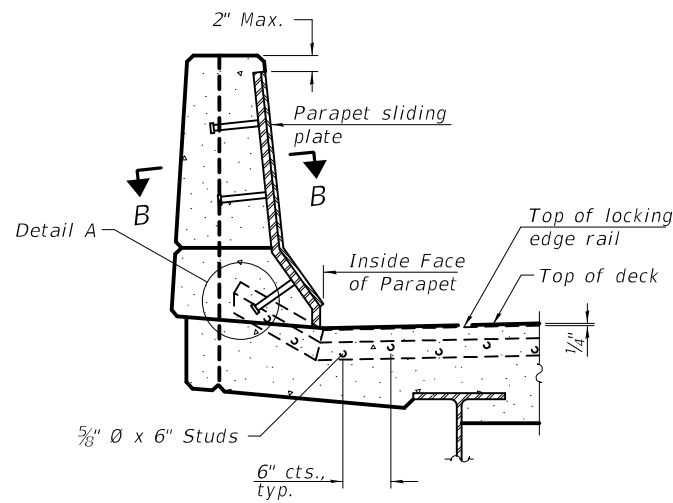
PLAN AT PARAPET



FOR SKEWS $> 30^\circ$

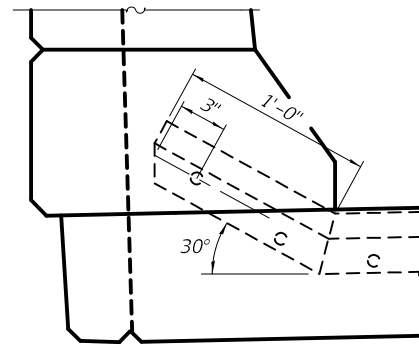


SECTION B-B

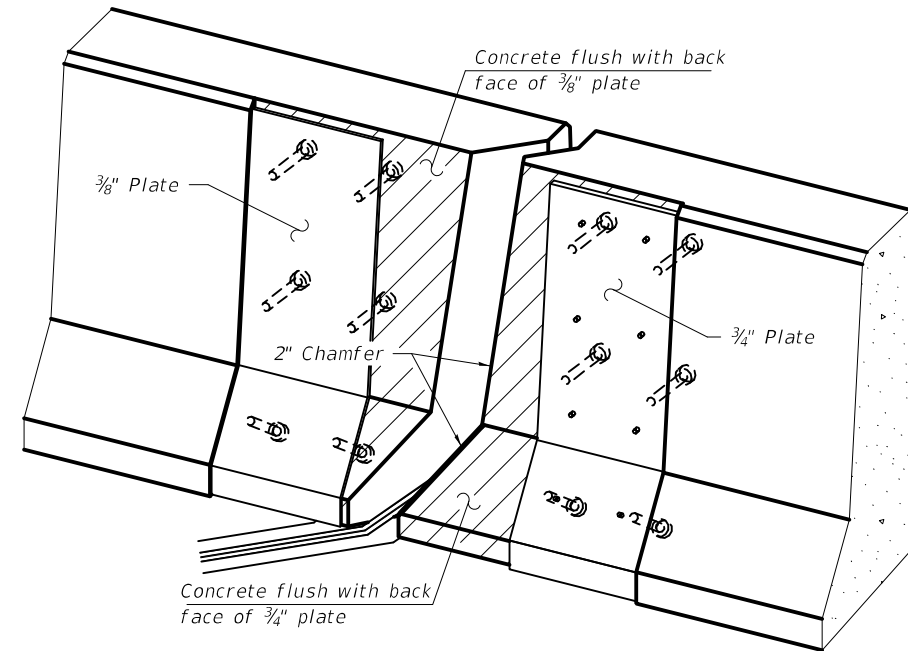


ELEVATION AT PARAPET

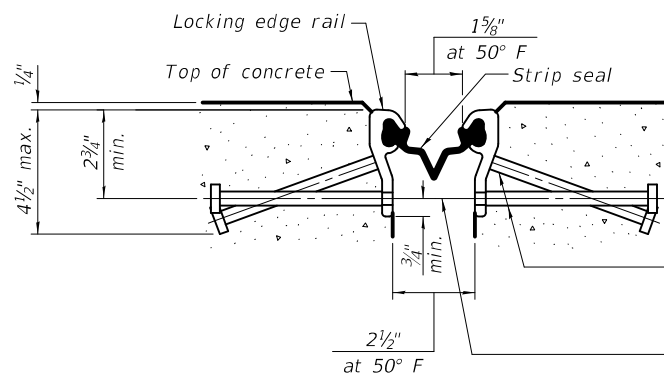
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW
(Showing embedded plates only)



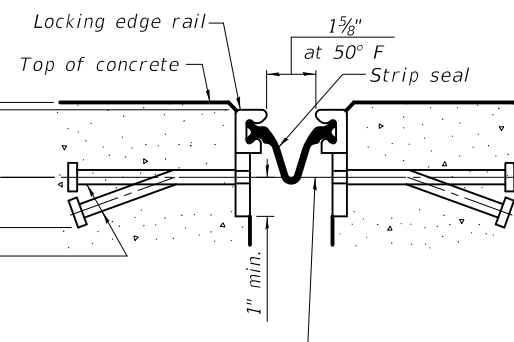
SHOWING ROLLED RAIL JOINT

* $5/8$ " ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

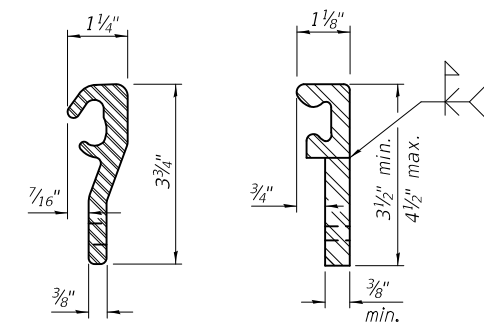
$3/8$ " ϕ threaded rods in $7/16$ " ϕ holes at ± 4 "-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



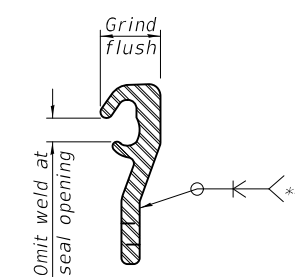
SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS
ROLLED (EXTRUDED) RAIL WELDED RAIL

LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	251.0

EJ-SS

8-11-17



USER NAME =	DESIGNED - CDB	REVISED
PLOT SCALE =	CHECKED - JMH	REVISED
PLOT DATE = 03/22/2018	DRAWN - AEC	REVISED
	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
S.N. 082-6006 MLK BRIDGE APPROACH OVER RAMP B

SHEET NO. 6 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	260
CONTRACT NO. 76G39				
ILLINOIS FED. AID PROJECT				

The structure is to be completely closed to traffic during construction.

No salvage.

GENERAL NOTES

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Existing reinforcement shall be cleaned and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

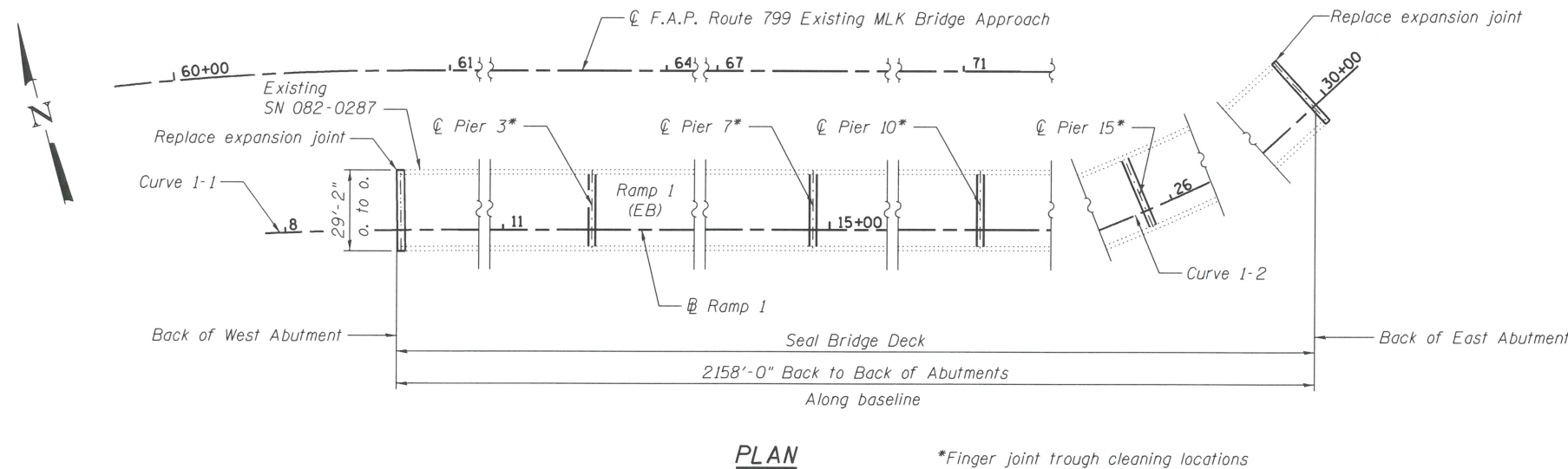
Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.

Surface preparation at the construction joints shall be performed using high-pressurized water spray, using equipment capable of producing a minimum water pressure of 5000 psi.

Bridge deck concrete sealer shall be applied on top and inside of all concrete barriers and top of slab for entire bridge length as specified in the special provision for Bridge Deck Concrete Sealer.

Existing Structure Plans are available for review in the District office. Contact Herve Gelin at (618) 346-3179.

The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	8.1	-	8.1
Concrete Superstructure	Cu. Yd.	8.2	-	8.2
Reinforcement Bars, Epoxy Coated	Pound	1,160	-	1,160
Prefomed Joint Strip Seal	Foot	56.0	-	56.0
Clean Trough	Each	4	-	4
Bridge Deck Concrete Sealer	Sq. Ft.	71,781	-	71,781

CURVE 1-1 DATA

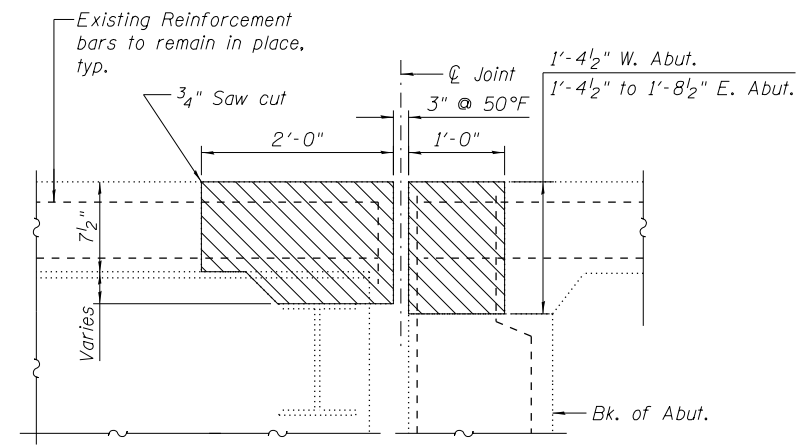
P.I. Sta. = 6+77.67
 $\Delta = 13^\circ 00' 25''$ (RT)
 $D = 3^\circ 30' 00''$
 $R = 1637.02'$
 $T = 186.61'$
 $L = 371.62'$
 $E = 10.60'$
 P.C. Sta. = 4+91.06
 P.T. Sta. = 8+62.68

CURVE 1-2 DATA

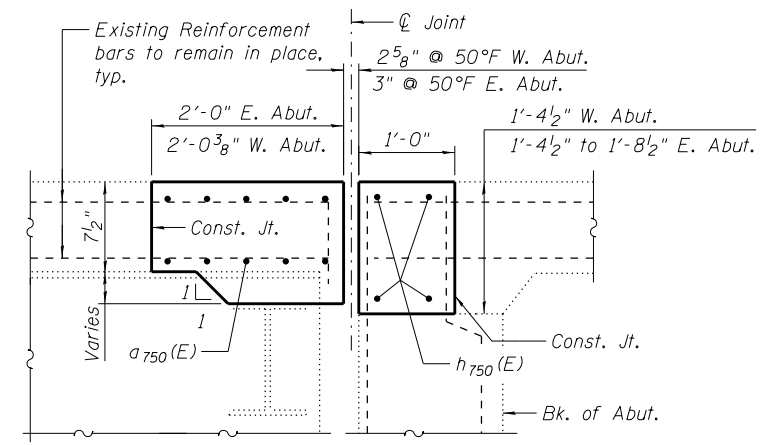
P.I. Sta. = 25+77.53
 $\Delta = 42^\circ 28' 36''$ (LT)
 $D = 8^\circ 00' 00''$
 $R = 716.20'$
 $T = 278.35'$
 $L = 530.96'$
 $E = 52.19'$
 P.C. Sta. = 22+99.18
 P.T. Sta. = 28+30.14

JERILYN M. HASSARD
 081-006521
 LICENSED
 STRUCTURAL
 ENGINEER
 STATE OF ILLINOIS
Jerilyn M. Hassard
 JERILYN M. HASSARD
 EDWARDSVILLE, ILLINOIS
 ILLINOIS LICENSED STRUCTURAL
 ENGINEER NO. 081-006521
 EXPIRES 11/30/2018

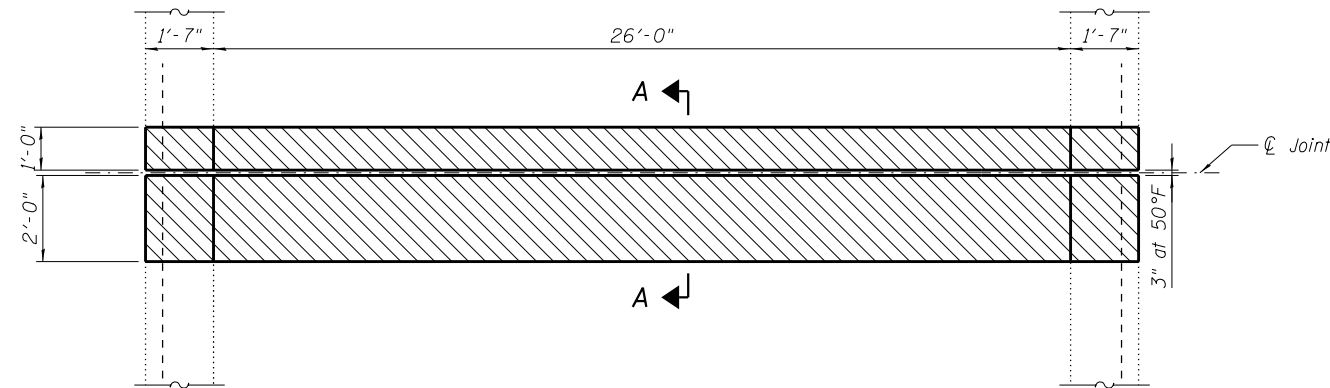
03-22-18



SECTION A-A
(near Centerline Roadway)

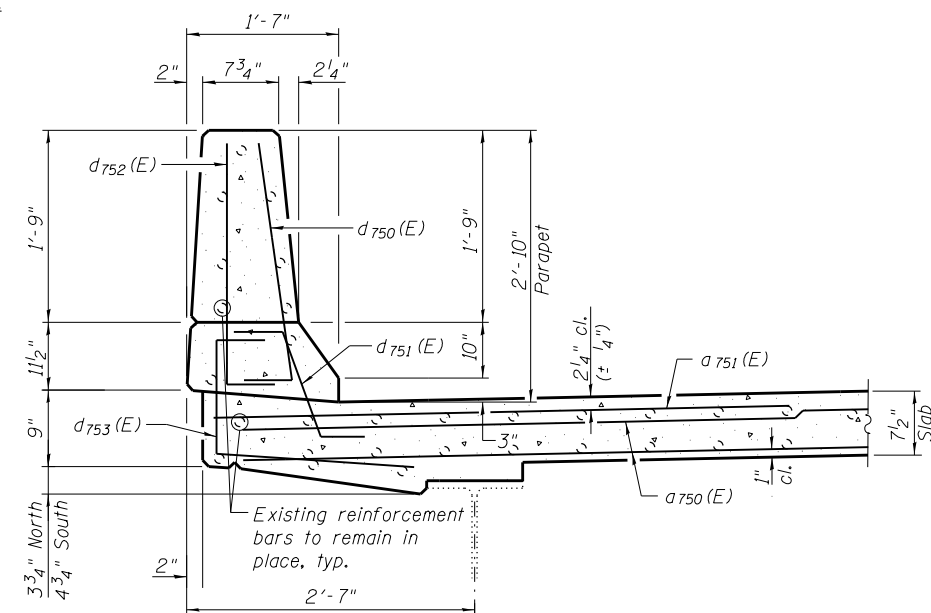


SECTION B-B
(near Centerline Roadway)

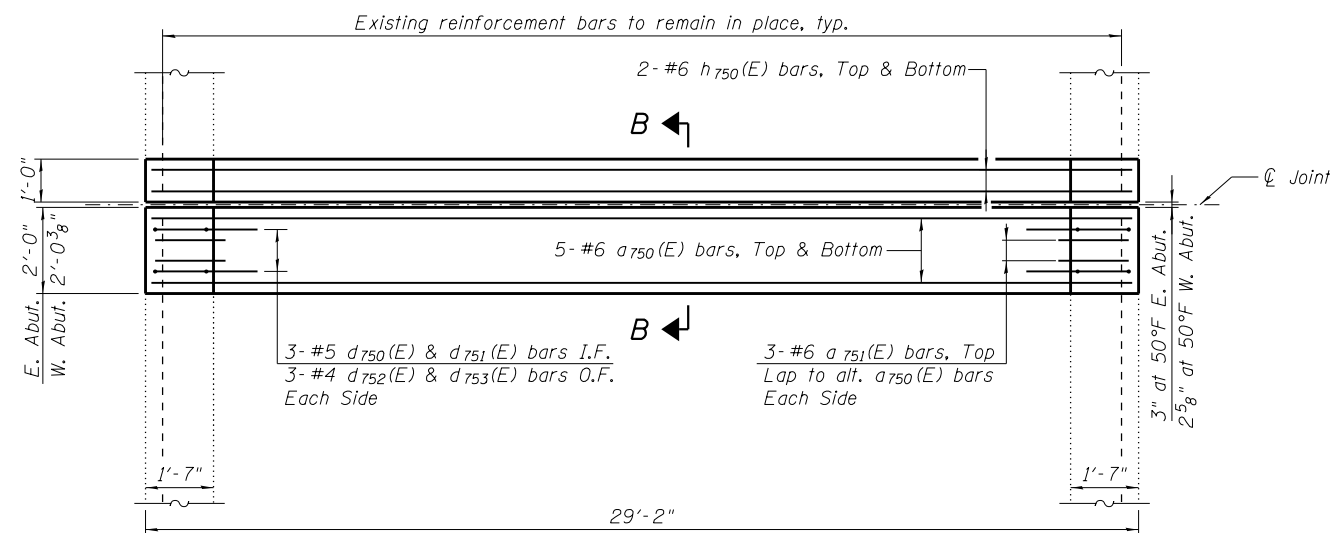


REMOVAL PLAN

West Abutment Shown; East Abutment Opposite Hand



TYPICAL PARAPET SECTION

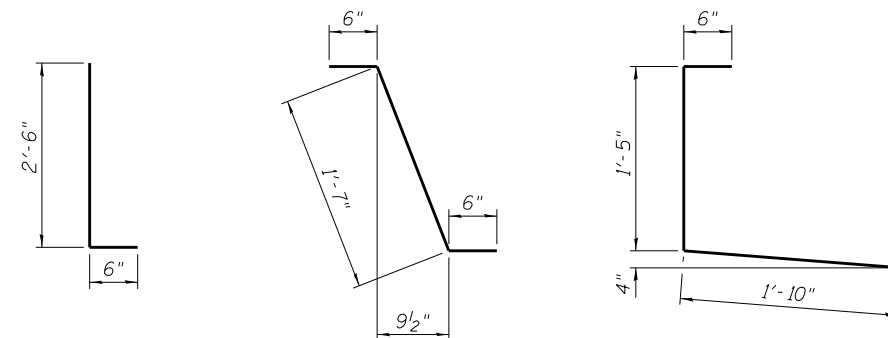


REPLACEMENT PLAN

West Abutment Shown; East Abutment Opposite Hand

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d750 (E)	20	#5	27'-2"	—
d751 (E)	12	#6	6'-6"	—
d750 (E)	12	#5	3'-0"	L
d751 (E)	12	#5	2'-7"	L
d752 (E)	12	#4	3'-0"	L
d753 (E)	12	#4	3'-9"	L
h750 (E)	8	#6	28'-10"	—
Concrete Removal			Cu. Yd.	8.1
Concrete Superstructure			Cu. Yd.	8.2
Reinforcement Bars, Epoxy Coated			Pound	1,160



BAR d750(E) & d752(E)

BAR d751(E)

BAR d753(E)

Note:
For joint details, see sheet 3 of 3.

Note: Hatched areas indicate removal.



USER NAME =	DESIGNED - CDB	REVISED
	CHECKED - JMH	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 03/22/2018	CHECKED - JMH	REVISED

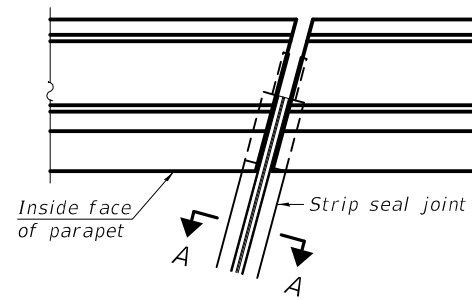
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REPLACEMENT DETAILS
S.N. 082-0287 MLK BRIDGE RAMP 1 OVER RELOCATED IL RTE 3,
VARIOUS RAILROADS, MISSOURI AVE. AND I-55SB/64WB

SHEET NO. 2 OF 3 SHEETS

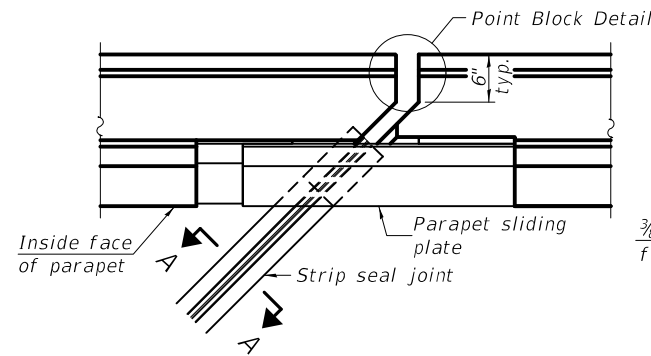
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	262
CONTRACT NO. 76C39				

ILLINOIS FED. AID PROJECT

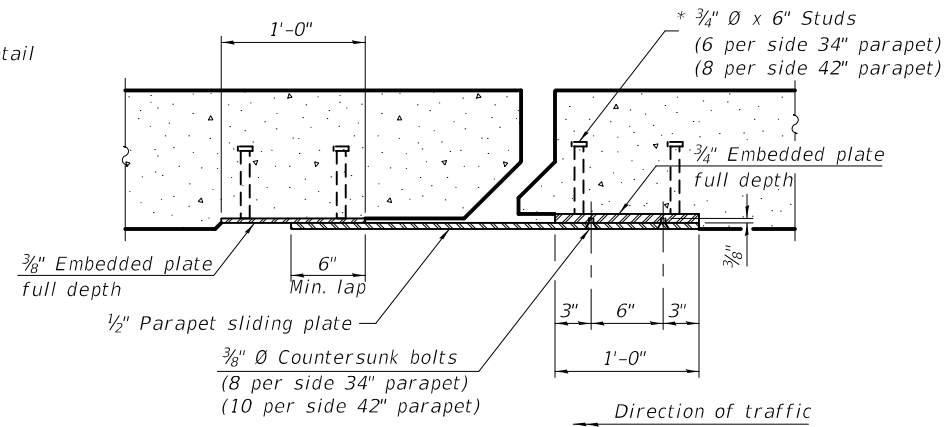


FOR SKEWS $\leq 30^\circ$

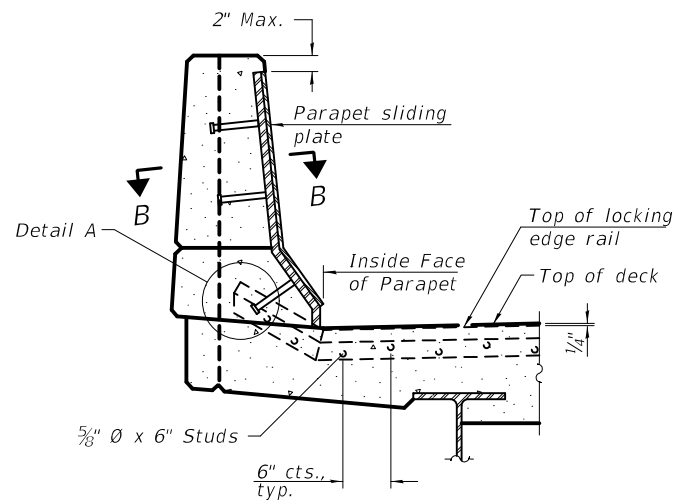
PLAN AT PARAPET



FOR SKEWS $> 30^\circ$

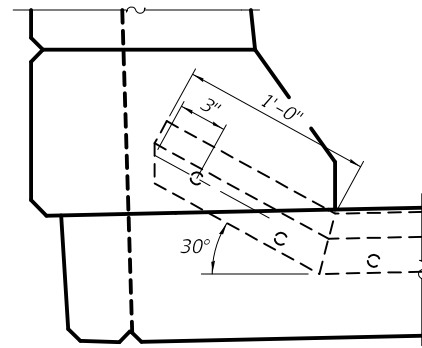


SECTION B-B

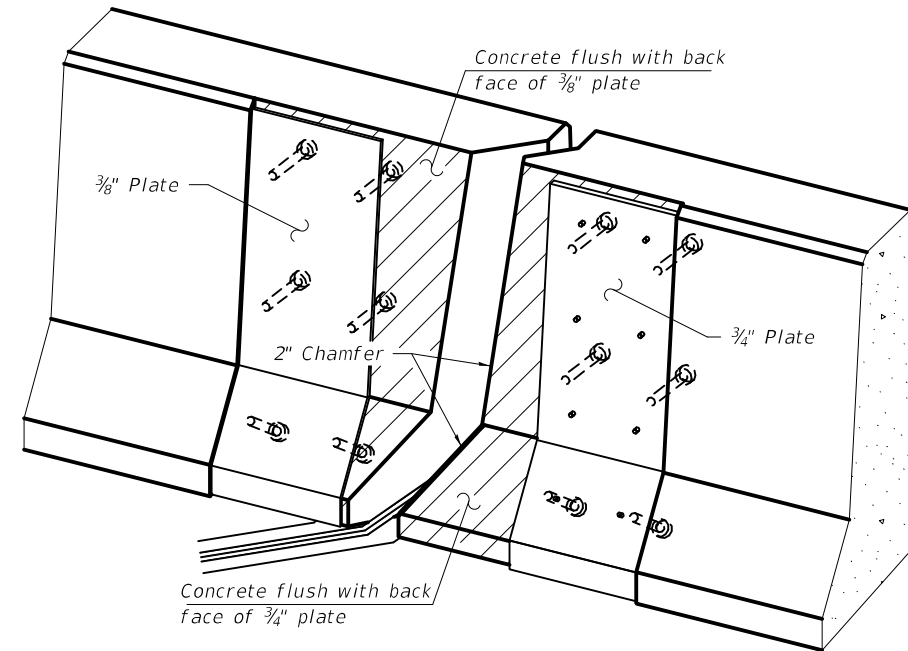


ELEVATION AT PARAPET

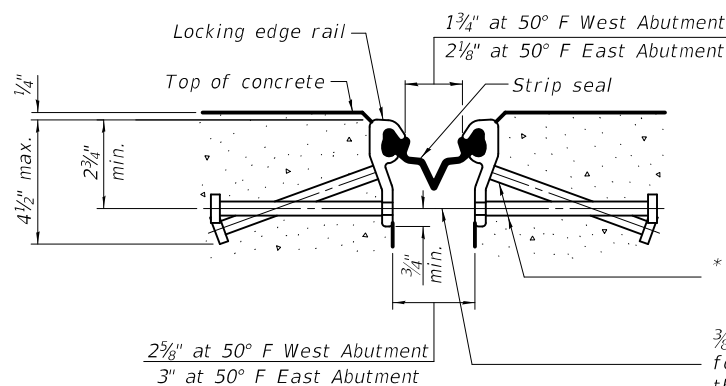
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW
(Showing embedded plates only)



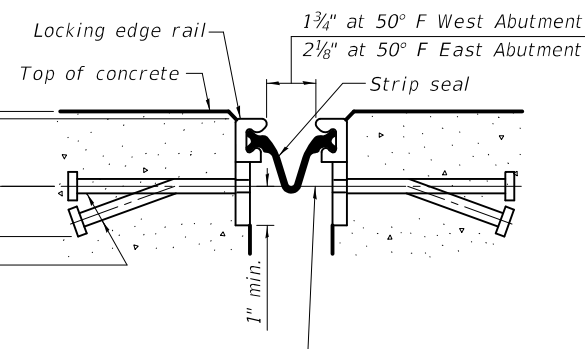
SHOWING ROLLED RAIL JOINT

* $5/8"$ ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

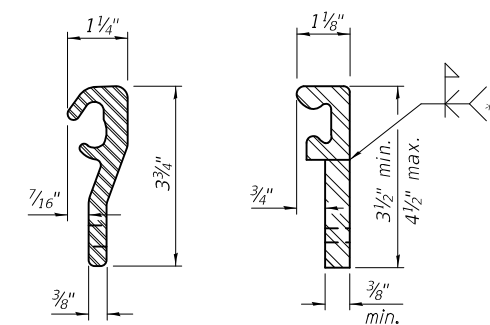
$3/8"$ ϕ threaded rods in $7/16"$ ϕ holes at $\pm 4'-0"$ cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



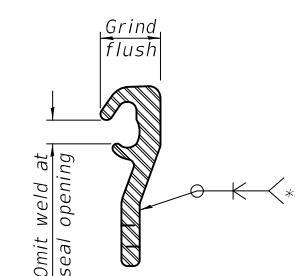
SHOWING WELDED RAIL JOINT



ROLLED (EXTRUDED) RAIL
WELDED RAIL

LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	56.0

EJ-SS

8-11-17



USER NAME =	DESIGNED - CDB	REVISED
PLOT SCALE =	CHECKED - JMH	REVISED
PLOT DATE = 03/22/2018	DRAWN - AEC	REVISED
	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
S.N. 082-0287 MLK BRIDGE RAMP 1 OVER RELOCATED IL RTE 3,
VARIOUS RAILROADS, MISSOURI AVE. AND I-55SB64WB

SHEET NO. 3 OF 3 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	263
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76C39	

GENERAL NOTES

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contactor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Existing reinforcement shall be cleaned and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.

Surface preparation at the construction joints shall be performed using high-pressurized water spray, using equipment capable of producing a minimum water pressure of 5000 psi.

Bridge deck concrete sealer shall be applied on top and inside of all concrete barriers and top of slab for entire bridge length as specified in the special provision for Bridge Deck Concrete Sealer.

Existing Structure Plans are available for review in the District office. Contact Herve Gelin at (618) 346-3179.

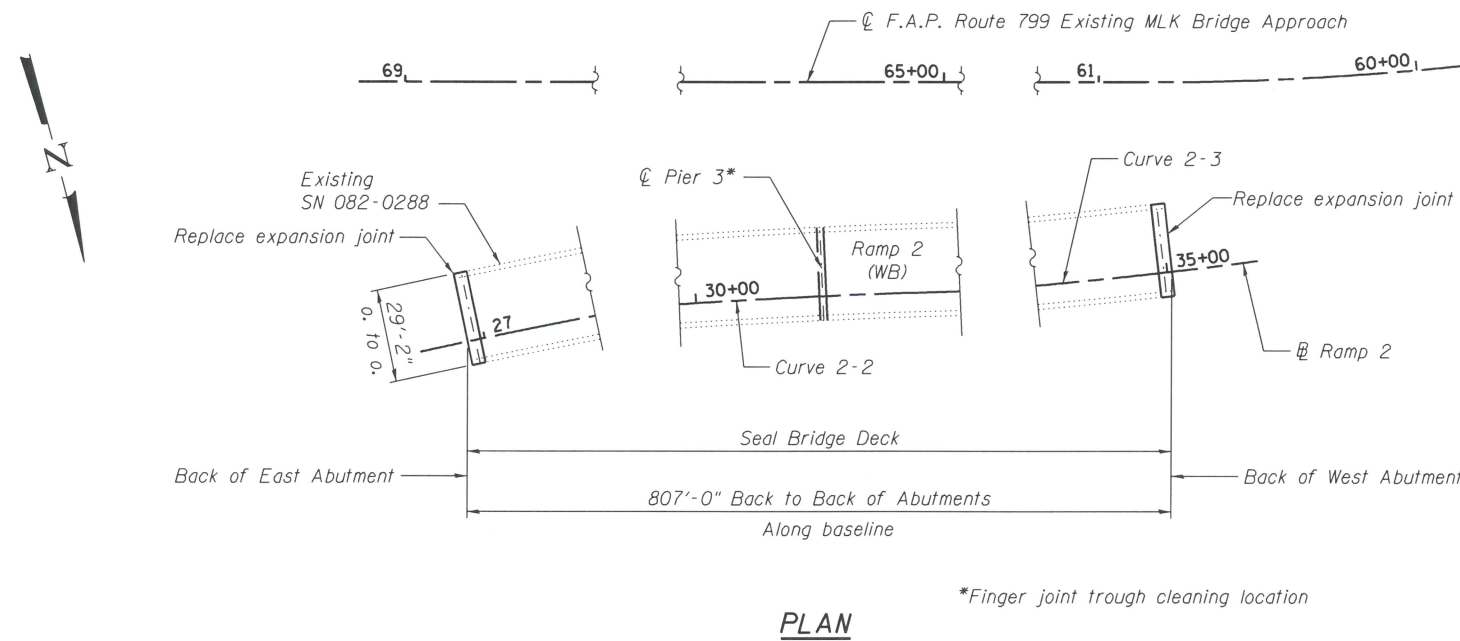
The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	8.0	-	8.0
Concrete Superstructure	Cu. Yd.	8.0	-	8.0
Reinforcement Bars, Epoxy Coated	Pound	1,170	-	1,170
Preformed Joint Strip Seal	Foot	56.0	-	56.0
Clean Trough	Each	1	-	1
Bridge Deck Concrete Sealer	Sq. Ft.	26,843	-	26,843

The structure is to be completely closed to traffic during construction.

No salvage.

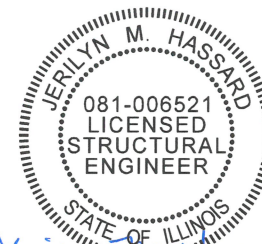


CURVE 2-2 DATA

P.I. Sta. = 25+85.24
 $\Delta = 31^\circ 05' 32''$ (RT)
 $D = 2^\circ 46' 00''$
 $R = 2070.93'$
 $T = 576.12'$
 $L = 1123.82'$
 $E = 78.64'$
 P.C. Sta. = 20+09.12
 P.T. Sta. = 31+32.94

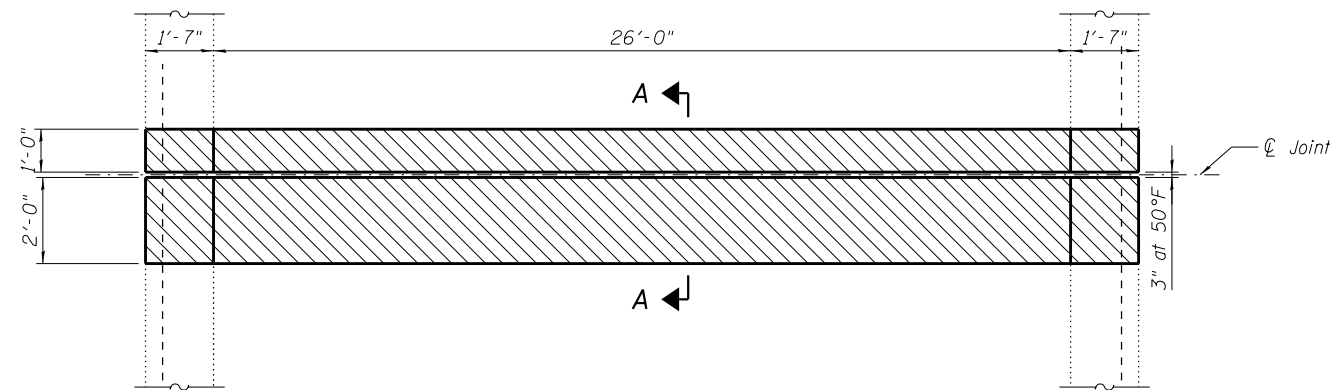
CURVE 2-3 DATA

P.I. Sta. = 35+45.70
 $\Delta = 16^\circ 49' 30''$ (LT)
 $D = 4^\circ 00' 00''$
 $R = 1432.39'$
 $T = 211.84'$
 $L = 420.63'$
 $E = 15.58'$
 P.C. Sta. = 33+33.86
 P.T. Sta. = 37+54.49



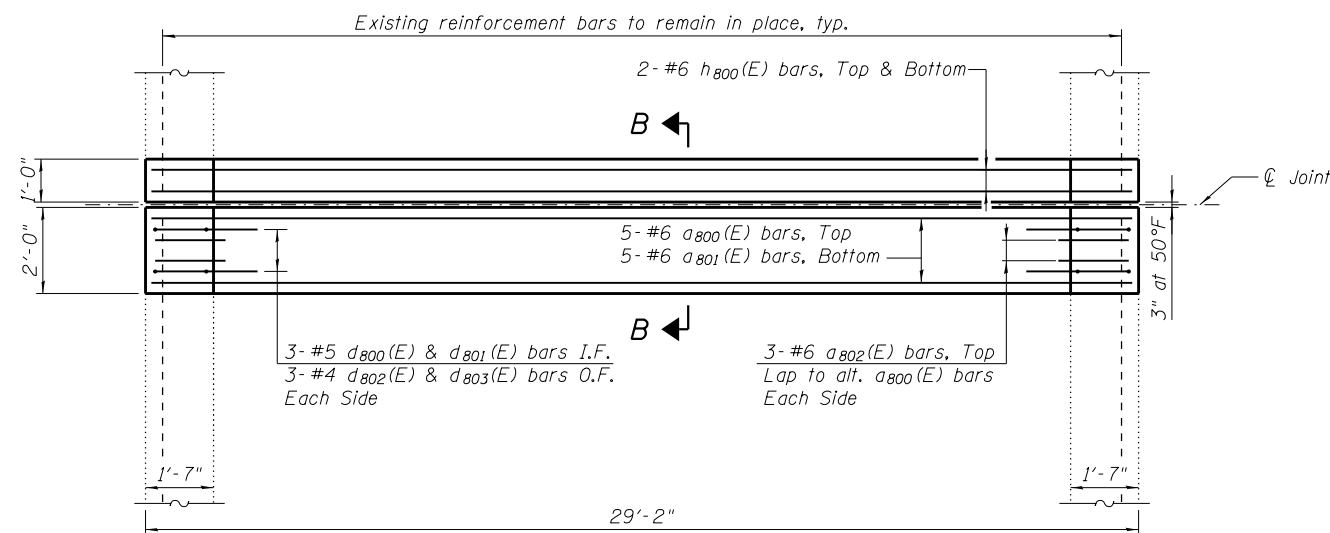
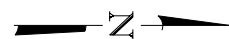
Jerilyn M. Hassard
 03-22-18

JERILYN M. HASSARD
 EDWARDSVILLE, ILLINOIS
 ILLINOIS LICENSED STRUCTURAL
 ENGINEER NO. 081-006521
 EXPIRES 11/30/2018



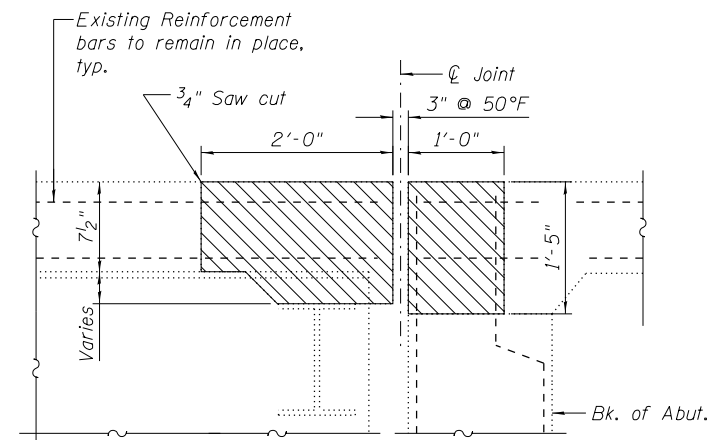
REMOVAL PLAN

West Abutment shown; East Abutment Opposite Hand



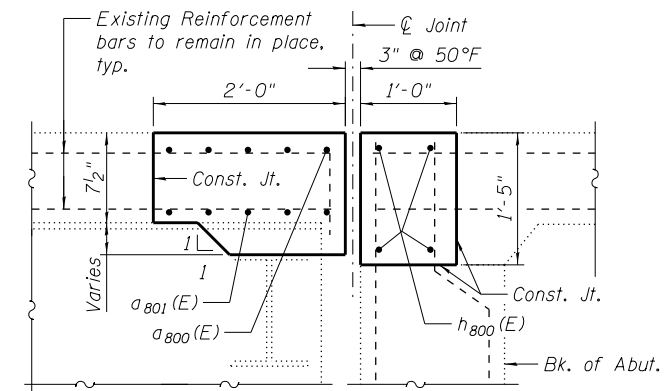
REPLACEMENT PLAN

West Abutment shown; East Abutment Opposite Hand



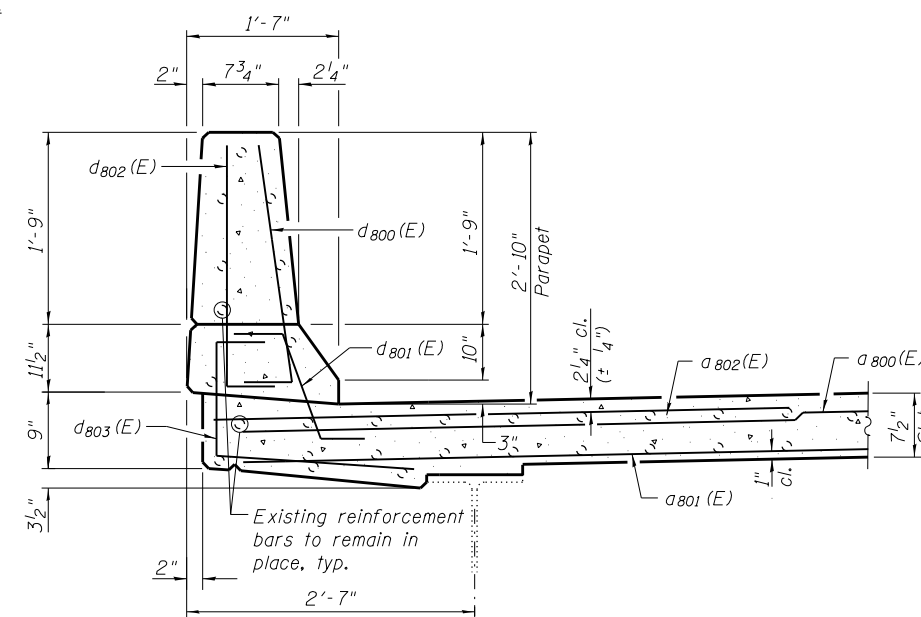
SECTION A-A

Near CL Roadway



SECTION B-B

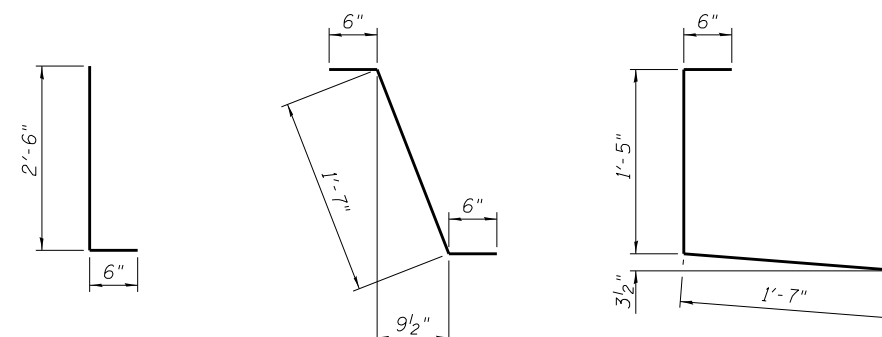
Near CL Roadway



TYPICAL PARAPET SECTION

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a800 (E)	10	#5	28'-6"	—
a801 (E)	10	#5	27'-6"	—
a802 (E)	12	#6	6'-6"	—
d800 (E)	12	#5	3'-0"	L
d801 (E)	12	#5	2'-7"	L
d802 (E)	12	#4	3'-0"	L
d803 (E)	12	#4	3'-6"	L
h800 (E)	8	#6	28'-10"	—
Concrete Removal			Cu. Yd.	8.0
Concrete Superstructure			Cu. Yd.	8.0
Reinforcement Bars, Epoxy Coated			Pound	1,170



BAR d800(E) & d802(E)

BAR d801(E)

BAR d803(E)

Note: For joint details, see sheet 3 of 3.

Note: Hatched areas indicate removal.



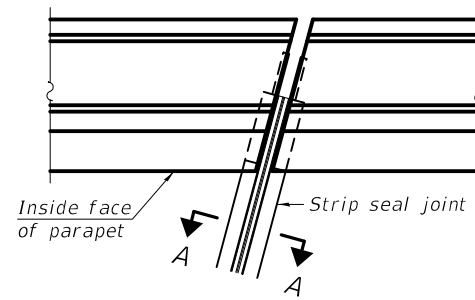
USER NAME =	DESIGNED - CDB	REVISED
	CHECKED - JMH	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 03/22/2018	CHECKED - JMH	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REPLACEMENT DETAILS
S.N. 082-0288 MLK BRIDGE RAMP 2 OVER RELOCATED IL RTE 3,
VARIOUS RAILROADS, AND MISSOURI AVE.**

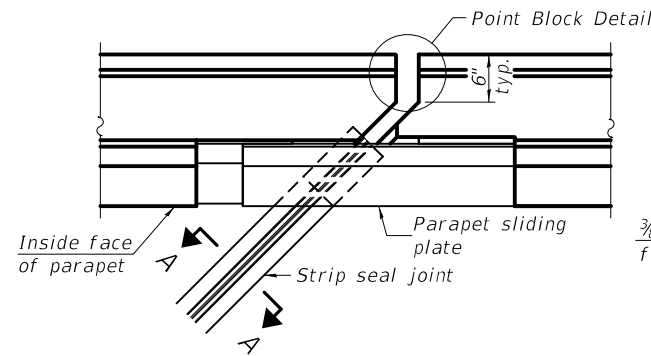
SHEET NO. 2 OF 3 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	265
CONTRACT NO. 76C39			ILLINOIS FED. AID PROJECT	

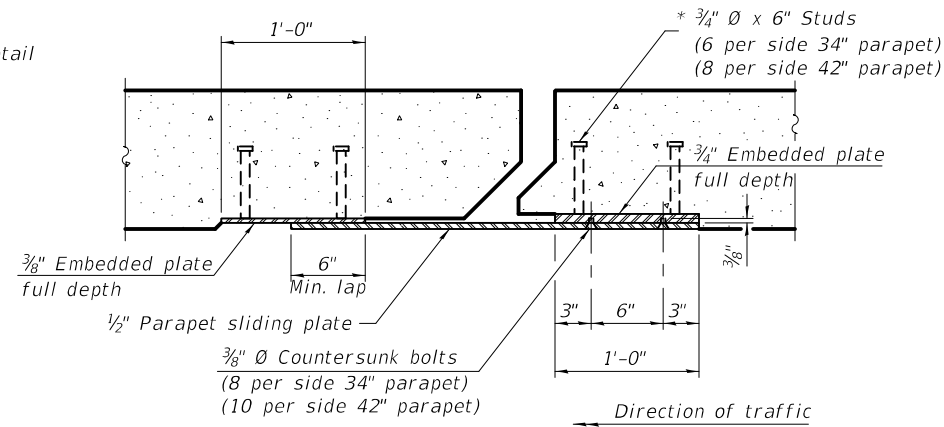


FOR SKEWS $\leq 30^\circ$

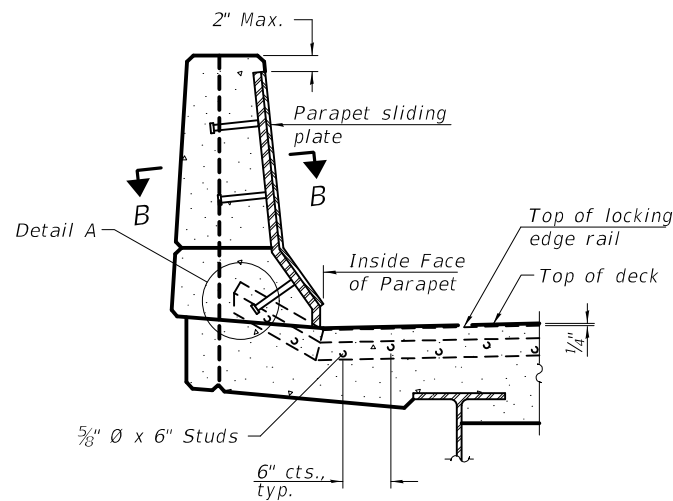
PLAN AT PARAPET



FOR SKEWS $> 30^\circ$

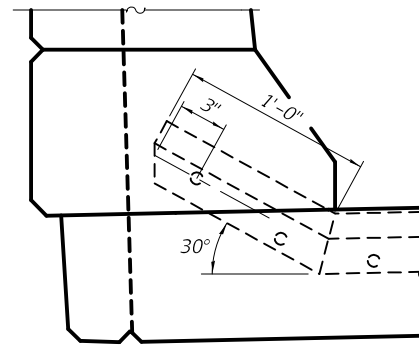


SECTION B-B

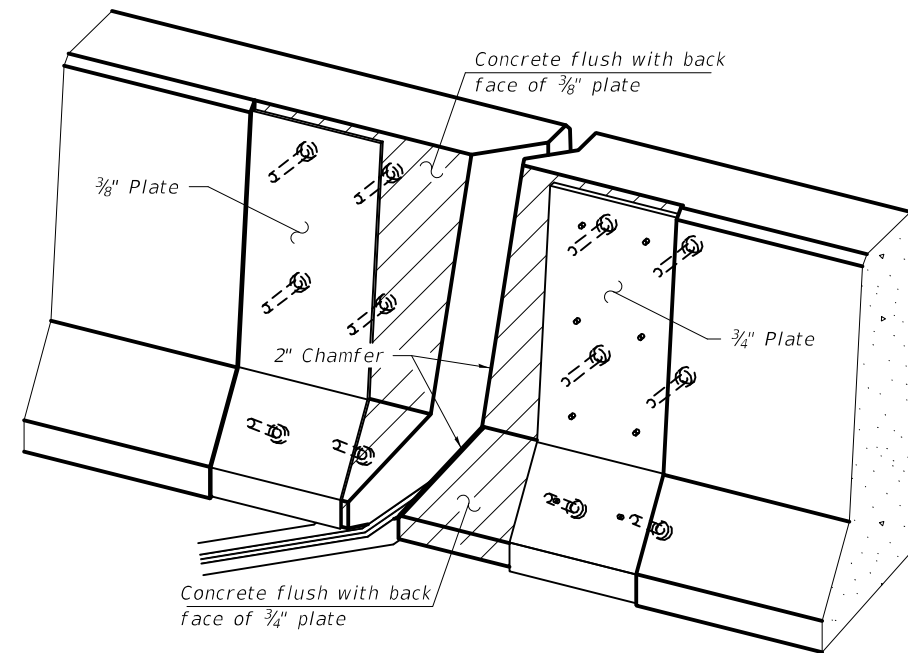


ELEVATION AT PARAPET

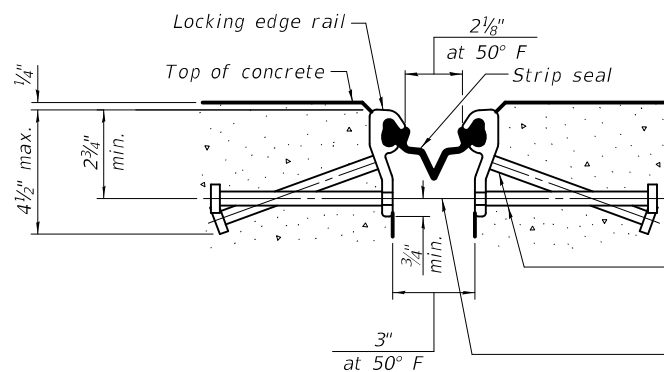
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW
(Showing embedded plates only)



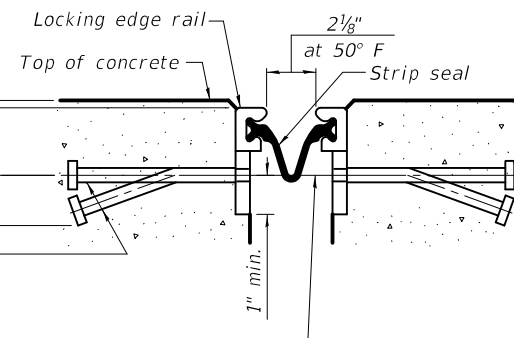
SHOWING ROLLED RAIL JOINT

* 5/8" ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

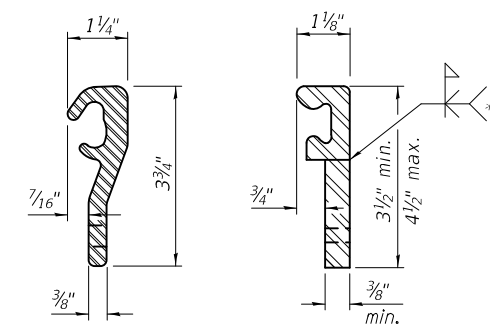
3/8" ϕ threaded rods in 7/16" ϕ holes at $\pm 4'-0"$ cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

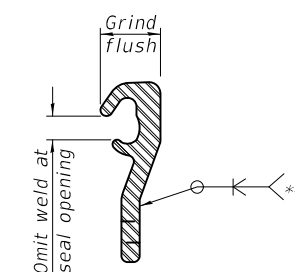


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	56.0

EJ-SS

8-11-17



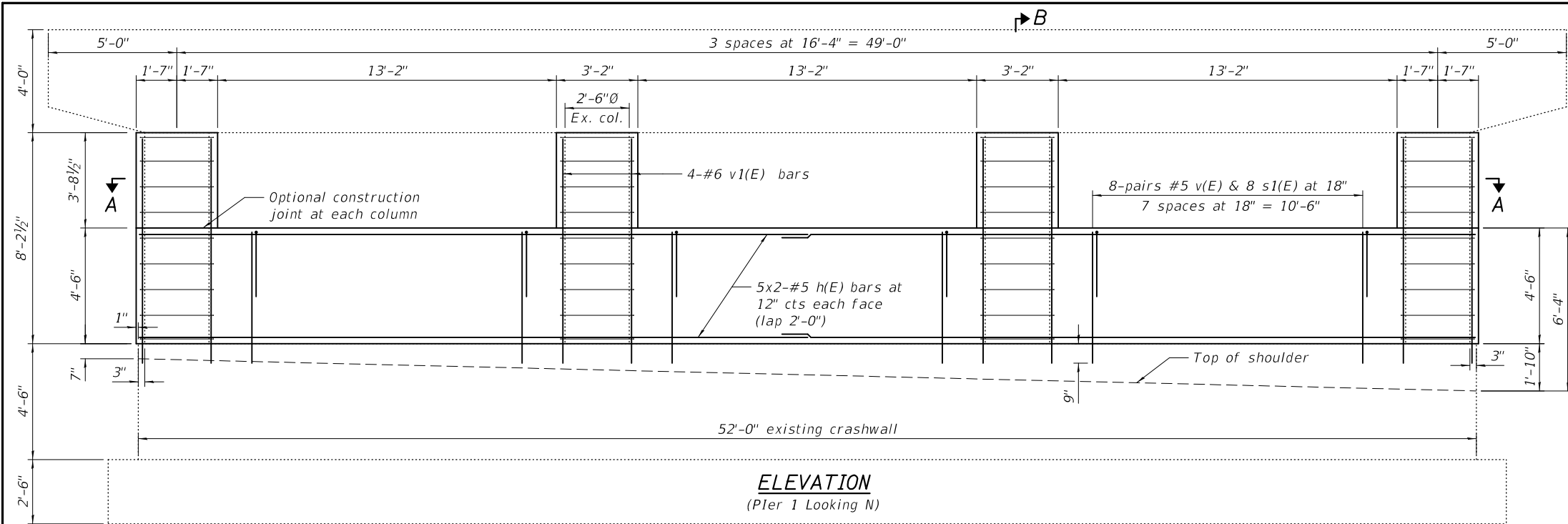
USER NAME =	DESIGNED - CDB	REVISED
PLOT SCALE =	CHECKED - JMH	REVISED
PLOT DATE = 03/22/2018	DRAWN - AEC	REVISED
	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

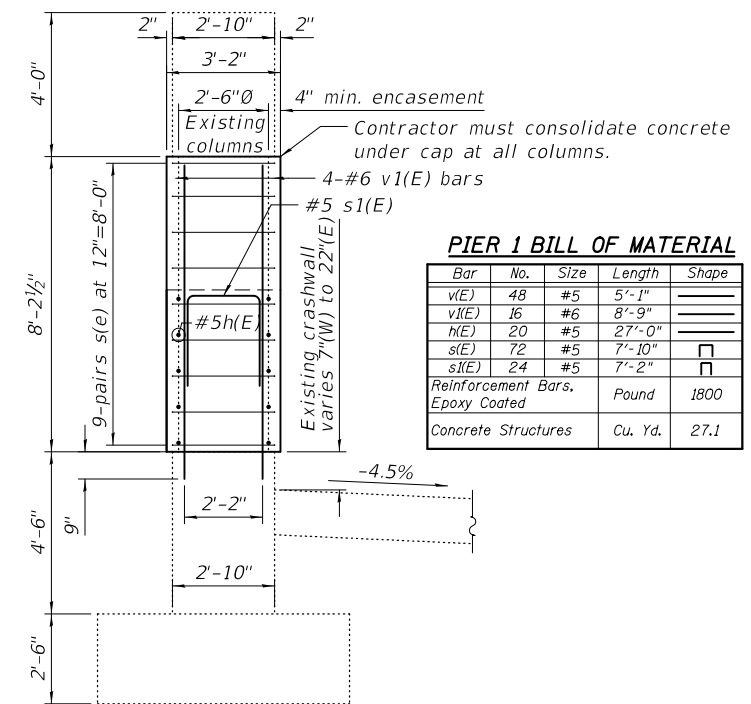
PREFORMED JOINT STRIP SEAL
S.N. 082-0288 MLK BRIDGE RAMP 2 OVER RELOCATED IL RTE 3,
VARIOUS RAILROADS, AND MISSOURI AVE.

SHEET NO. 3 OF 3 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	266
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76C39	



ELEVATION
(Pier 1 Looking N)



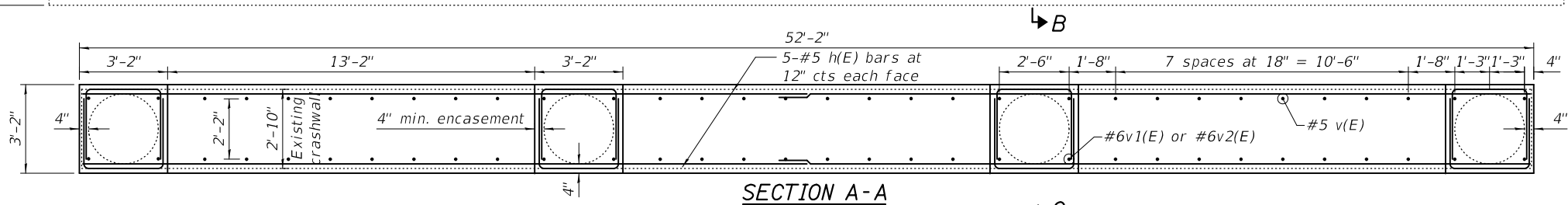
SECTION B-B
(Pier 1 Looking East)

PIER 1 BILL OF MATERIAL

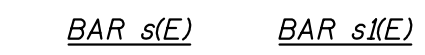
Bar	No.	Size	Length	Shape	
v(E)	48	#5	5'-1"	—	
v2(E)	16	#6	8'-9"	—	
h(E)	20	#5	27'-0"	—	
s(E)	72	#5	7'-10"	□	
s2(E)	24	#5	7'-2"	□	
Reinforcement Bars, Epoxy Coated				Pound	1800
Concrete Structures				Cu. Yd.	27.1

NOTES

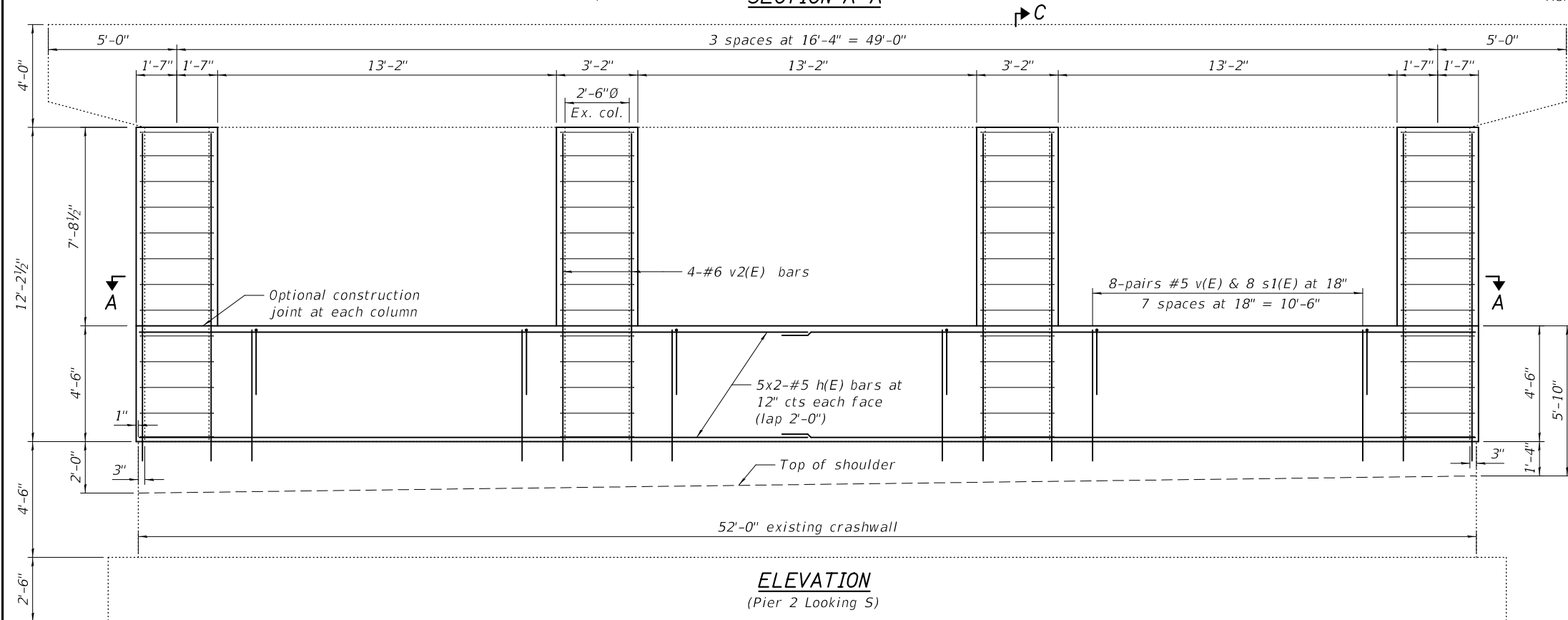
"Concrete Structures" quantity is for extending the crashwall 4'-6" and encasing the pier columns.
 All loose and unsound concrete shall be removed from the columns, cost included with "Concrete Structures".
 Vertical bars shall be drilled and epoxy grouted into existing crashwall 9" in accordance with Article 584 of the Standard Specs. Cost included with "Reinforcement Bars, Epoxy Coated".



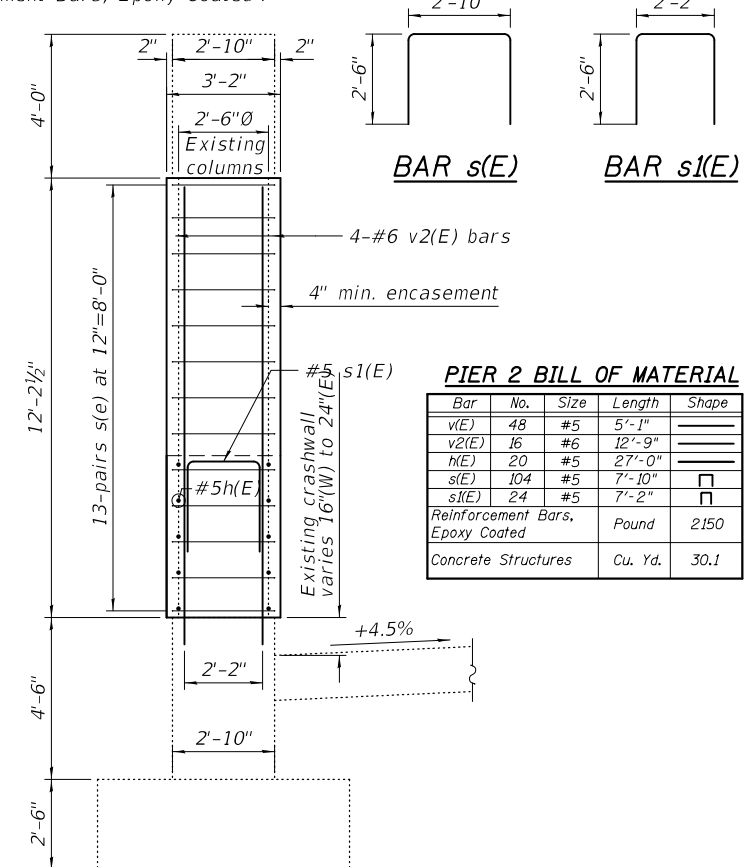
SECTION A-A



BAR s(E) **BAR s(E)**



ELEVATION
(Pier 2 Looking S)



SECTION C-C
(Pier 2 Looking West)

PIER 2 BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
v(E)	48	#5	5'-1"	—	
v2(E)	16	#6	12'-9"	—	
h(E)	20	#5	27'-0"	—	
s(E)	104	#5	7'-10"	□	
s2(E)	24	#5	7'-2"	□	
Reinforcement Bars, Epoxy Coated				Pound	2150
Concrete Structures				Cu. Yd.	30.1

DESIGNED - J. Uehle	EXAMINED	DATE - JANUARY 19, 2018
CHECKED - V. Veitz	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - J. Uehle	PASSED	REVISOR
CHECKED - V. Veitz	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER CRASHWALL & COLUMN REPAIRS
S.N. 082-0135 (MISSOURI AVE. OVER WB 55/70)

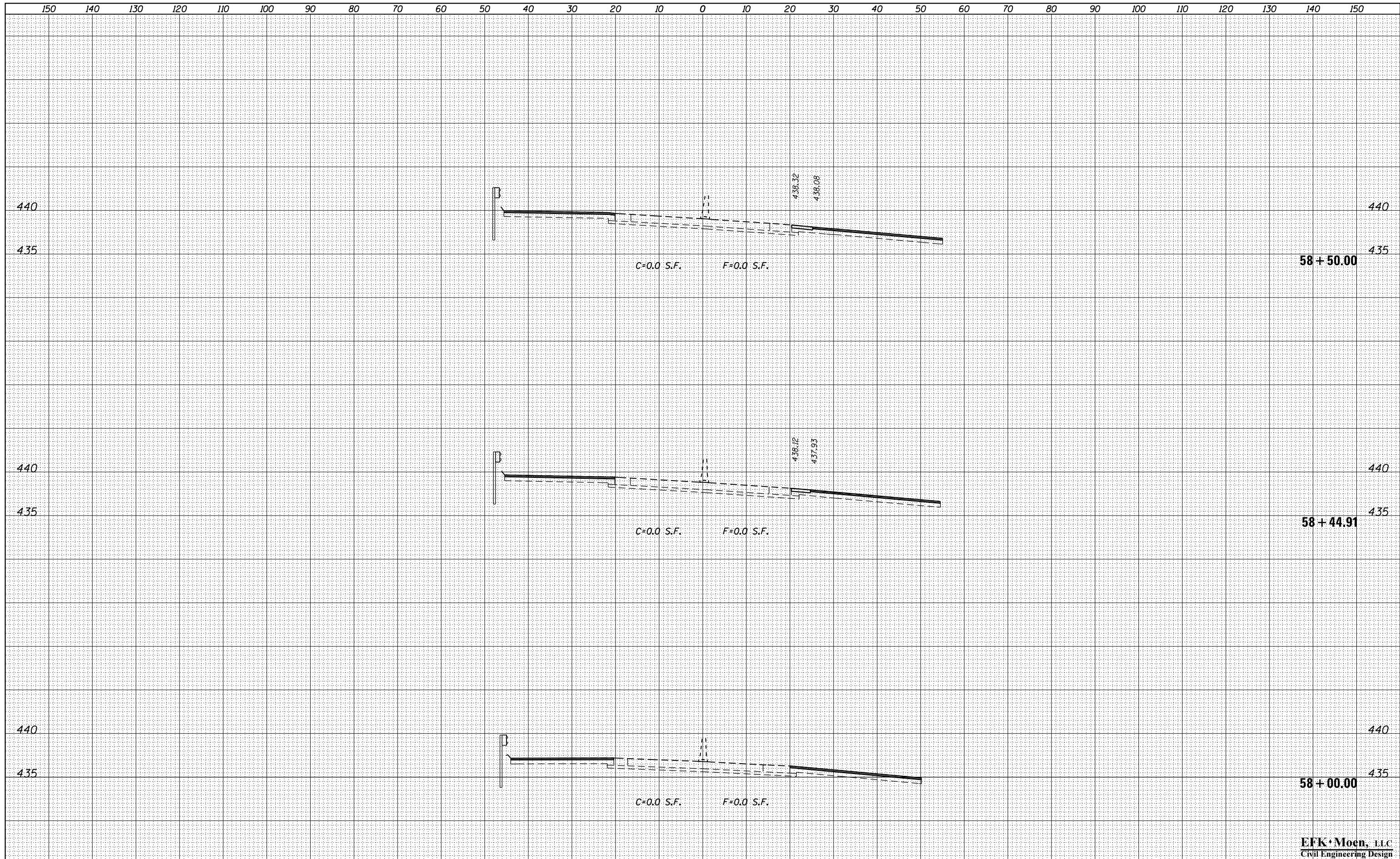
SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	267
CONTRACT NO. 76G39				

ILLINOIS FED. AID PROJECT

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

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



FILE NAME = 600-0876G39-shr-xsec-MLK.dgn
MODELNAME

USER NAME = jd
DESIGNED - JRJ
DRAWN - SJF
CHECKED - SLD
DATE - 3/22/2018
PLOT SCALE = 20.0000' / in.
PLOT DATE = 3/22/2018

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
MLK BRIDGE APPROACH
SCALE: 5'V - 10'H
SHEET 1 OF 22 SHEETS
STA. 58+00.00 TO STA. 58+50.00

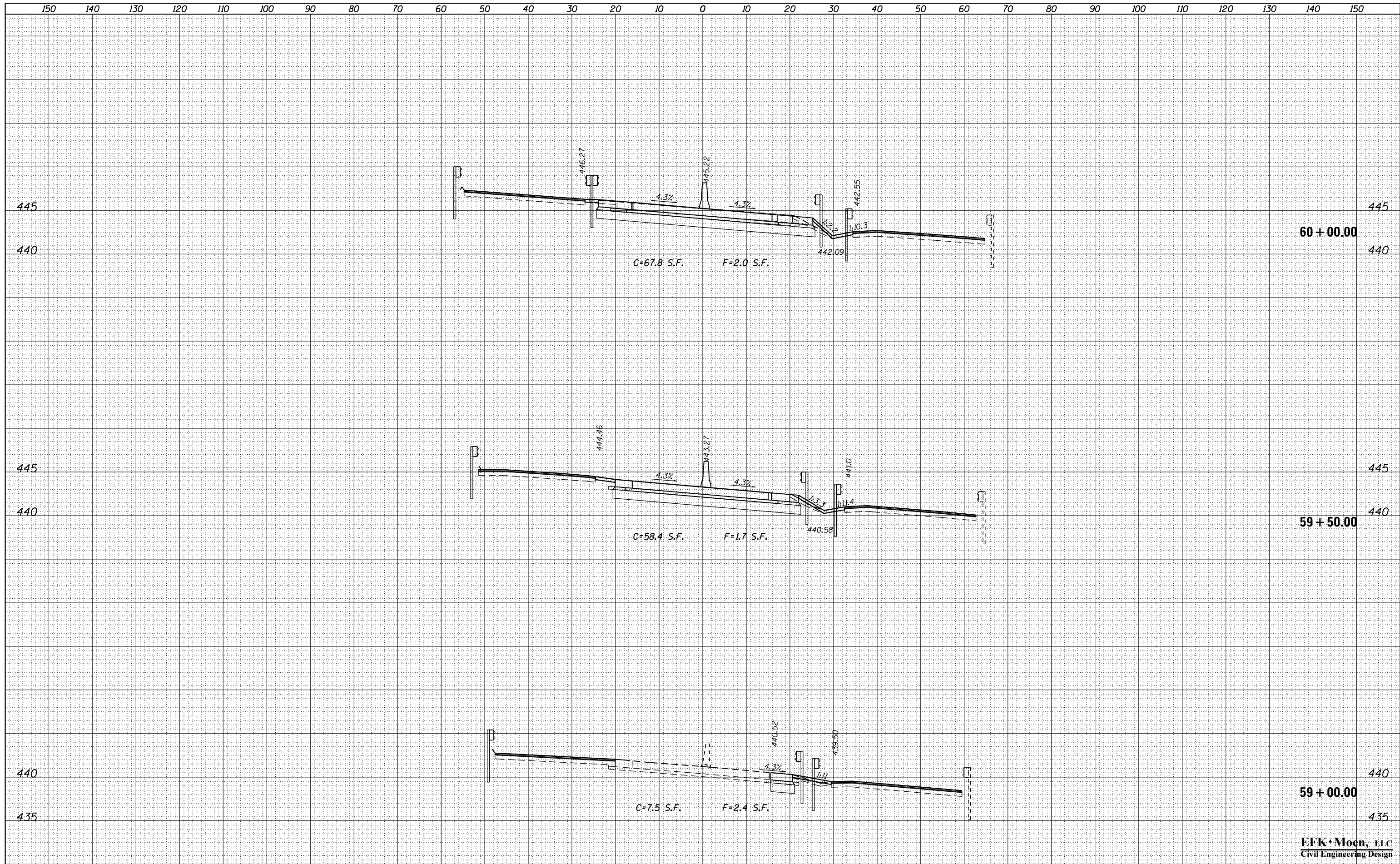
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	268
CONTRACT NO. 76G39				

ILLINOIS FED. AID PROJECT

EFK Moen, LLC
Civil Engineering Design

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

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



60 + 00.00

59 + 50.00

59 + 00.00

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
MLK BRIDGE APPROACH**

EFK Moen, LLC
Civil Engineering Design

FILE NAME = 600-0876G39-shr-xsec-MLK.dgn

USER NAME = jd
PLOT SCALE = 20.0000' / in.
PLOT DATE = 3/22/2018

DESIGNED - JRD	REVISED -
DRAWN - SJF	REVISED -
CHECKED - SLD	REVISED -
DATE - 3/22/2018	REVISED -

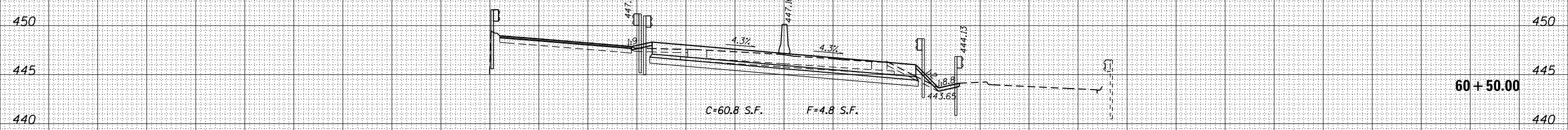
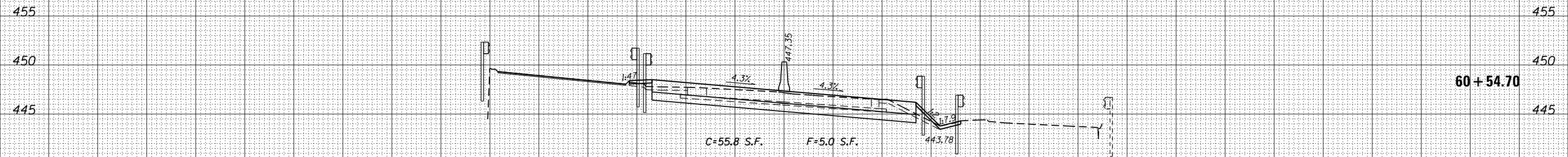
SCALE: 5'V - 10'H SHEET 2 OF 22 SHEETS STA. 59+00.00 TO STA. 60+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	269
				CONTRACT NO. 76G39
ILLINOIS FED. AID PROJECT				

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

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

STA. 60+54.70 - STA. 73+99.29
SEE BRIDGE PLANS



EFK Moen, LLC
Civil Engineering Design

FILE NAME = 600-0876G39-sht-xsec-MLK.dgn
MODELNAME

USER NAME = jd
PLOT SCALE = 20.0000' / in.
PLOT DATE = 3/22/2018

DESIGNED - JRD
DRAWN - SJF
CHECKED - SLD
DATE - 3/22/2018

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
MLK BRIDGE APPROACH

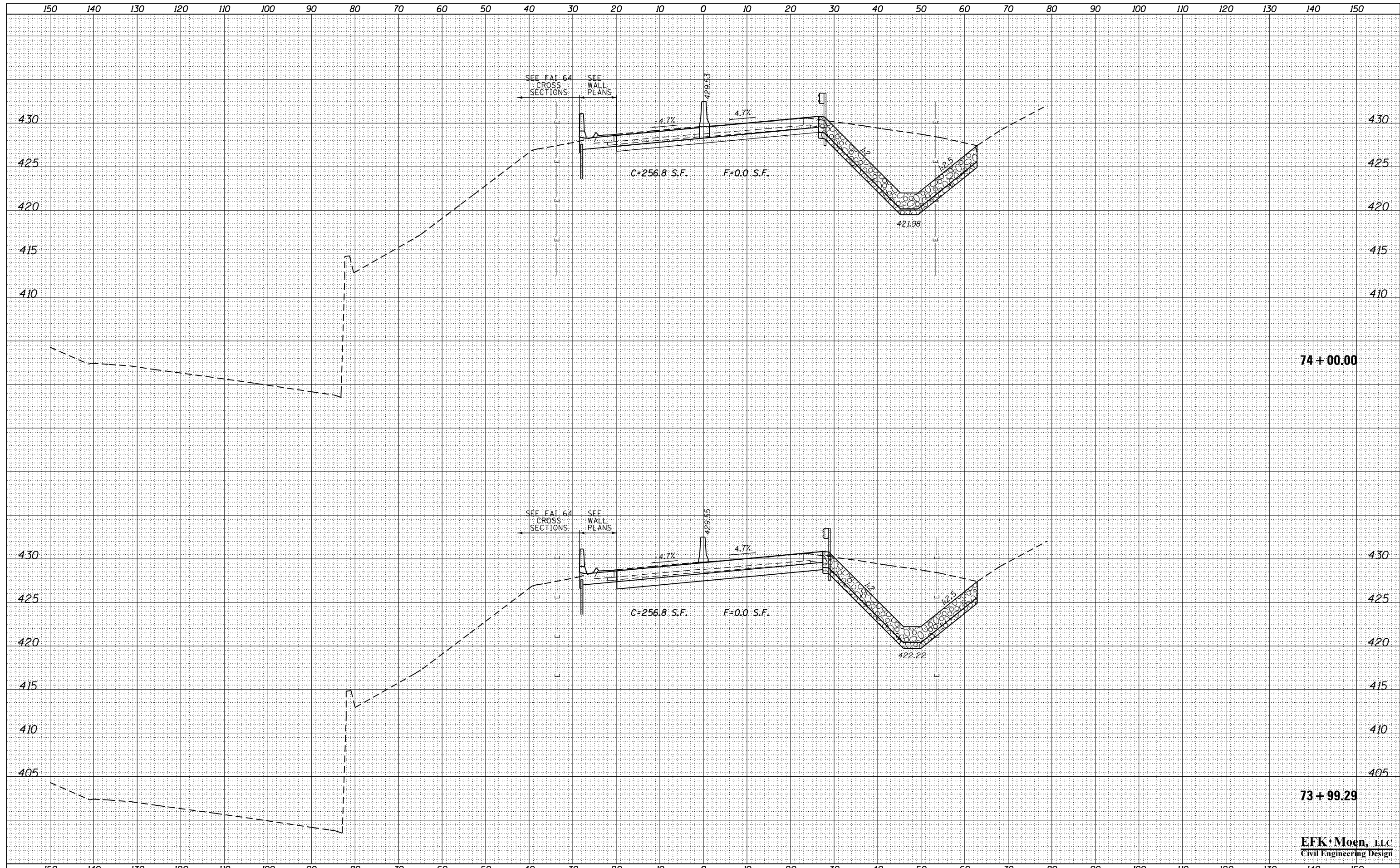
SCALE: 5'V - 10'H SHEET 3 OF 22 SHEETS STA. 60+50.00 TO STA. 60+54.70

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	270
			CONTRACT NO. 76G39	

ILLINOIS FED. AID PROJECT

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	05

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	05



FILE NAME = 600-0876G39-sht-xsec-MLK.dgn
 MODELNAME

USER NAME = jd	DESIGNED - JRD	REVISED -
	DRAWN - SJF	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - SLD	REVISED -
PLOT DATE = 3/22/2018	DATE - 3/22/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

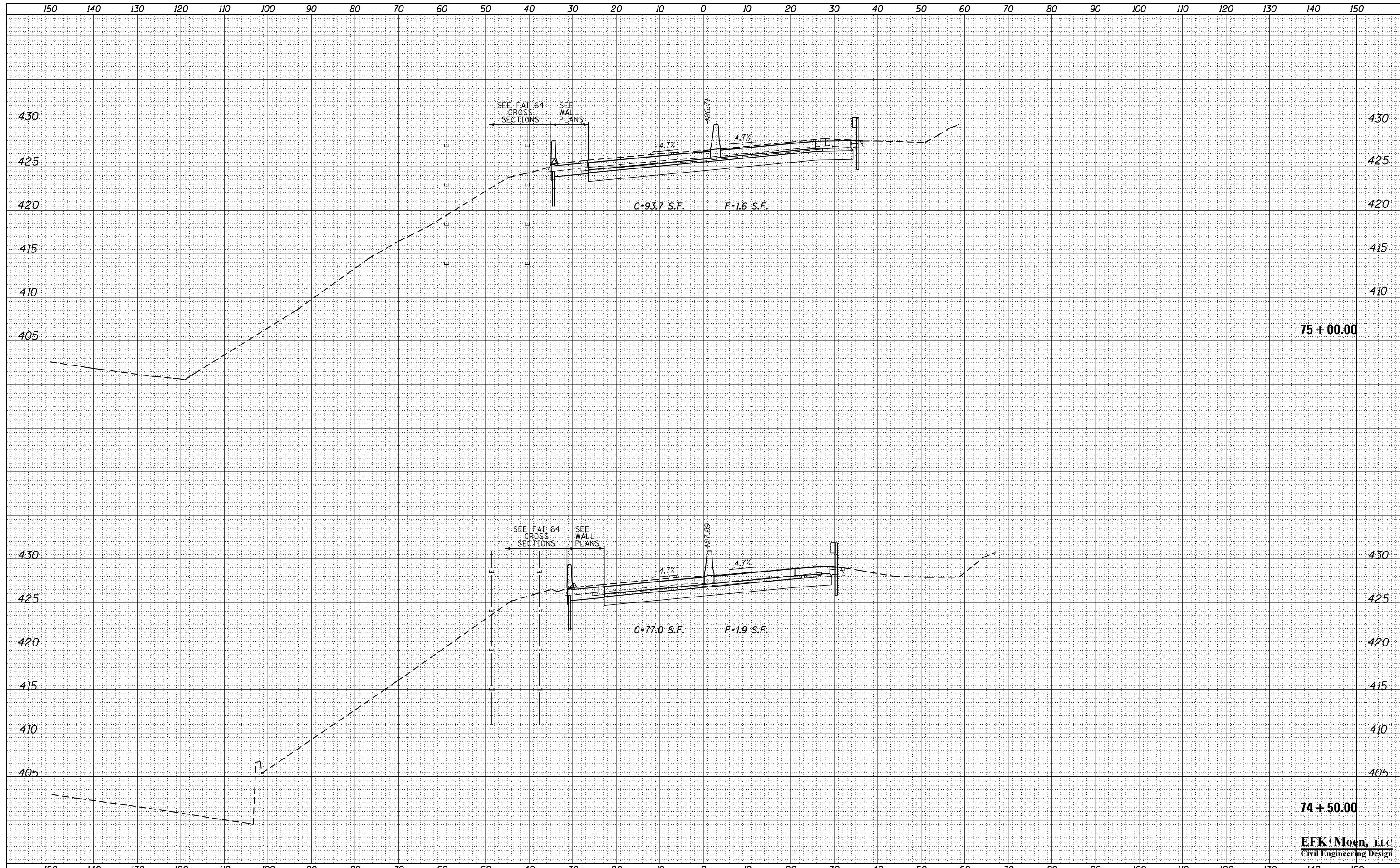
**CROSS SECTIONS
MLK BRIDGE APPROACH**
 SCALE: 5'V - 10'H SHEET 4 OF 22 SHEETS STA. 73+99.29 TO STA. 74+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	271
CONTRACT NO. 76G39				
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
Civil Engineering Design

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

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



FILE NAME = 600-0876G39-sht-xsec-MLK.dgn
 MODELNAME

USER NAME = jd
 DESIGNED - JRD
 DRAWN - SJF
 CHECKED - SLD
 DATE - 3/22/2018

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

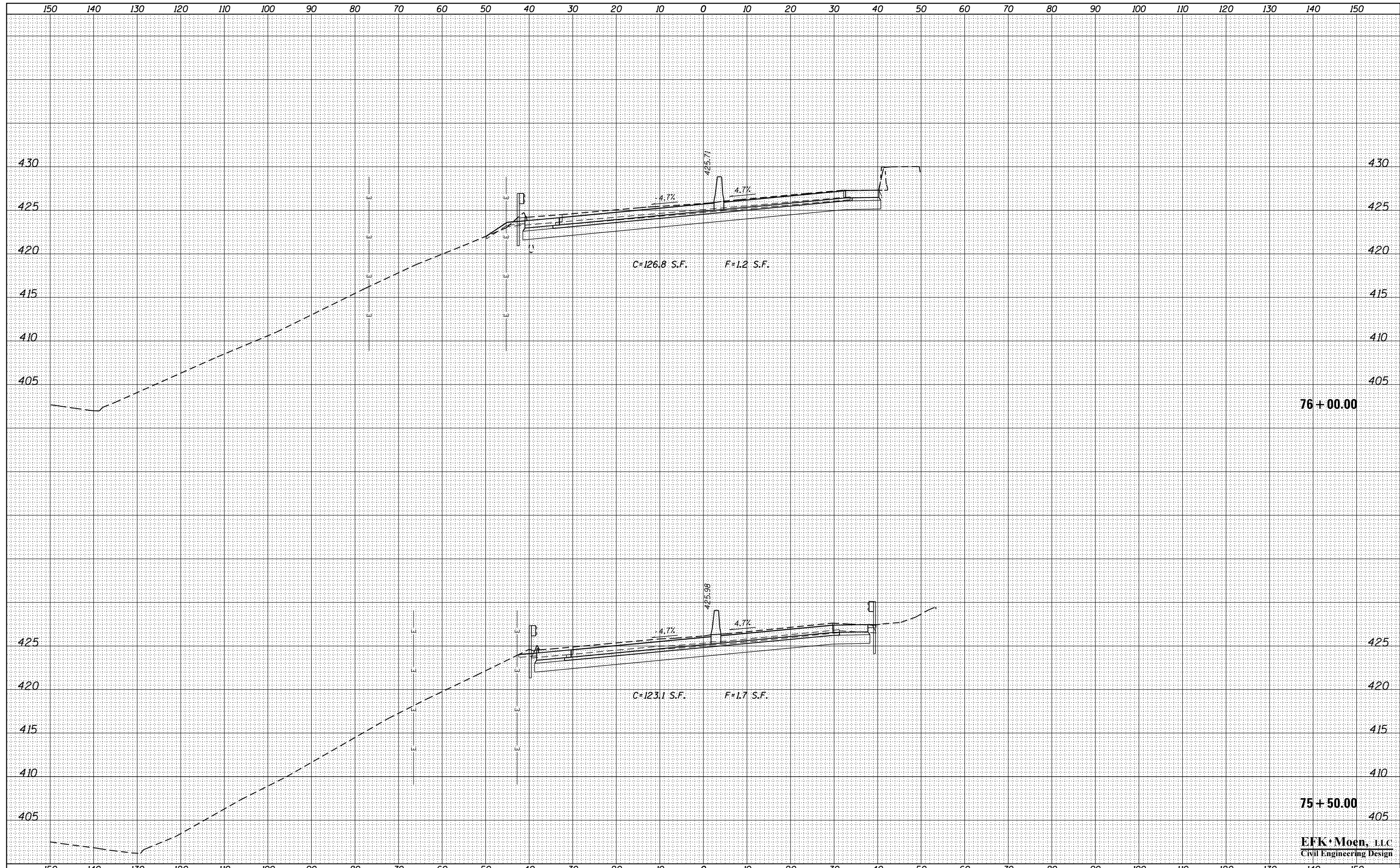
**CROSS SECTIONS
 MLK BRIDGE APPROACH**
 SCALE: 5'V - 10'H SHEET 5 OF 22 SHEETS STA. 74+50.00 TO STA. 75+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	272
CONTRACT NO. 76G39				
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
 Civil Engineering Design

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

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



FILE NAME = 600-0876G39-sht-xsec-MLK.dgn
 MODELNAME

USER NAME = jd	DESIGNED - JRD	REVISED -
	DRAWN - SJF	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - SLD	REVISED -
PLOT DATE = 3/22/2018	DATE - 3/22/2018	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

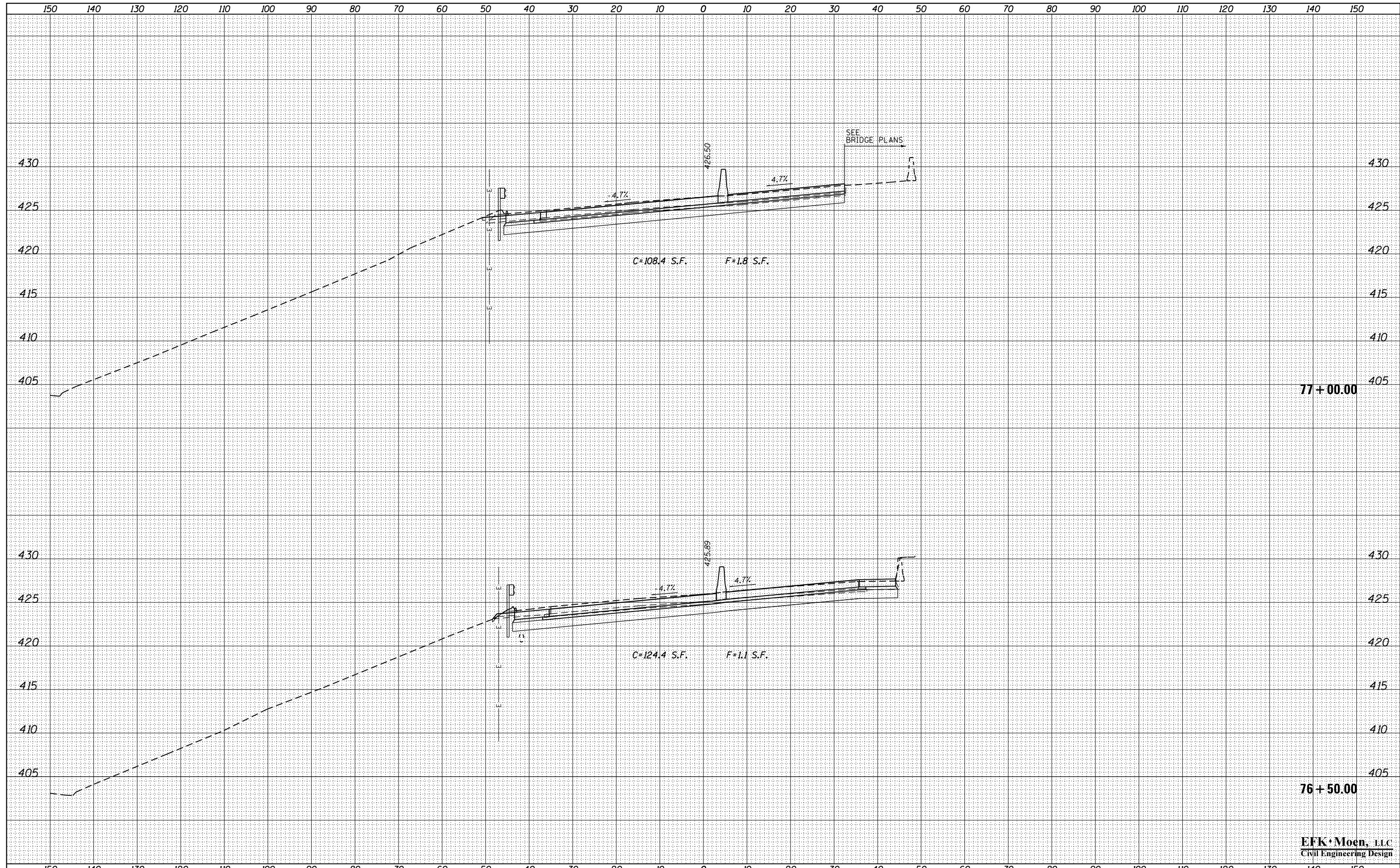
CROSS SECTIONS
 MLK BRIDGE APPROACH
 SCALE: 5'V - 10'H SHEET 6 OF 22 SHEETS STA. 75+50.00 TO STA. 76+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	273
CONTRACT NO. 76G39				
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
 Civil Engineering Design

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

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



FILE NAME = 600-0876G39-sht-xsec-MLK.dgn
 MODELNAME

USER NAME = jd
 DESIGNED - JRD
 DRAWN - SJF
 CHECKED - SLD
 DATE - 3/22/2018

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

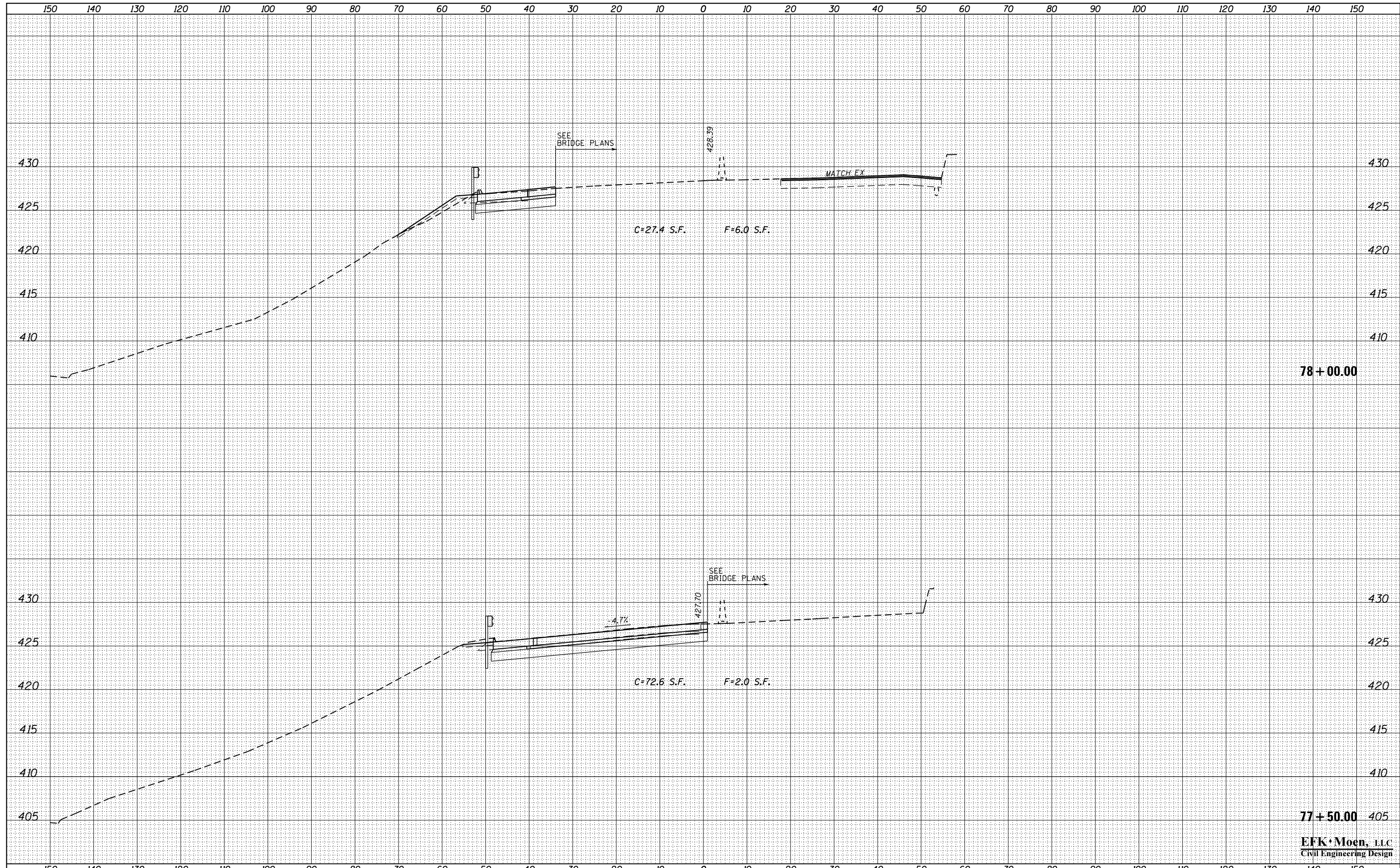
CROSS SECTIONS
 MLK BRIDGE APPROACH
 SCALE: 5'V - 10'H SHEET 7 OF 22 SHEETS STA. 76+50.00 TO STA. 77+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	274
			CONTRACT NO. 76G39	
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
 Civil Engineering Design

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	



FILE NAME = 600-0876G39-sht-xsec-MLK.dgn
 MODELNAME

USER NAME = jd	DESIGNED - JRD	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - SJF	REVISED -
PLOT DATE = 3/22/2018	CHECKED - SLD	REVISED -
	DATE - 3/22/2018	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

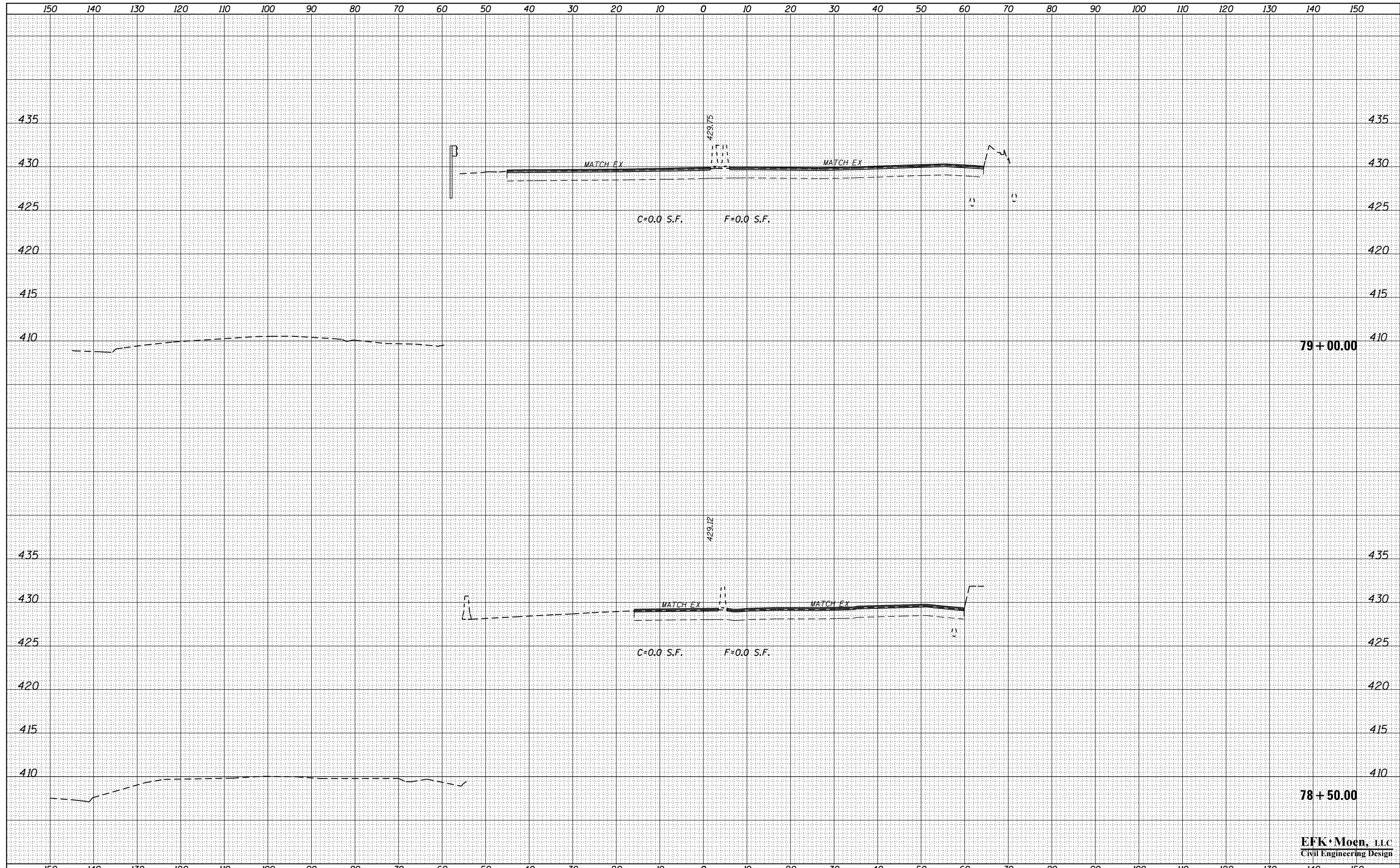
CROSS SECTIONS
 MLK BRIDGE APPROACH
 SCALE: 5'V - 10'H SHEET 8 OF 22 SHEETS STA. 77+50.00 TO STA. 78+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	275
			CONTRACT NO. 76G39	
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
 Civil Engineering Design

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



FILE NAME = 600-0876G39-sht-xsec-MLK.dgn
 MODELNAME

USER NAME = jd	DESIGNED - JRD	REVISD -
	DRAWN - SJF	REVISD -
PLOT SCALE = 20.0000' / in.	CHECKED - SLD	REVISD -
PLOT DATE = 3/22/2018	DATE - 3/22/2018	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

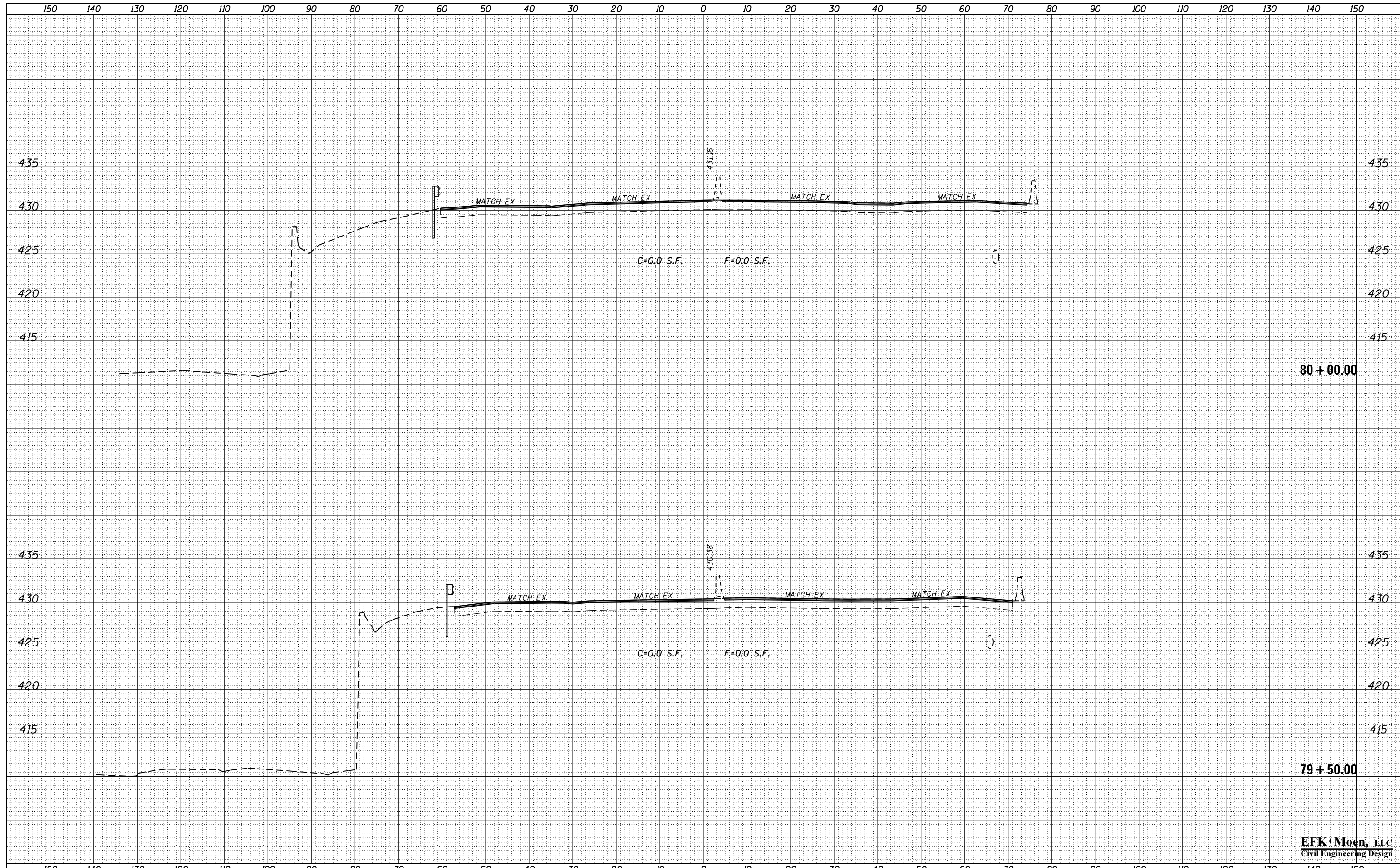
**CROSS SECTIONS
MLK BRIDGE APPROACH**
 SCALE: 5'V - 10'H SHEET 9 OF 22 SHEETS STA. 78+50.00 TO STA. 79+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	276
			CONTRACT NO. 76G39	
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
Civil Engineering Design

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

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



FILE NAME = 600-0876G39-sht-xsec-MLK.dgn

USER NAME = jd	DESIGNED - JRD	REVISED -
	DRAWN - SJF	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - SLD	REVISED -
PLOT DATE = 3/22/2018	DATE - 3/22/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

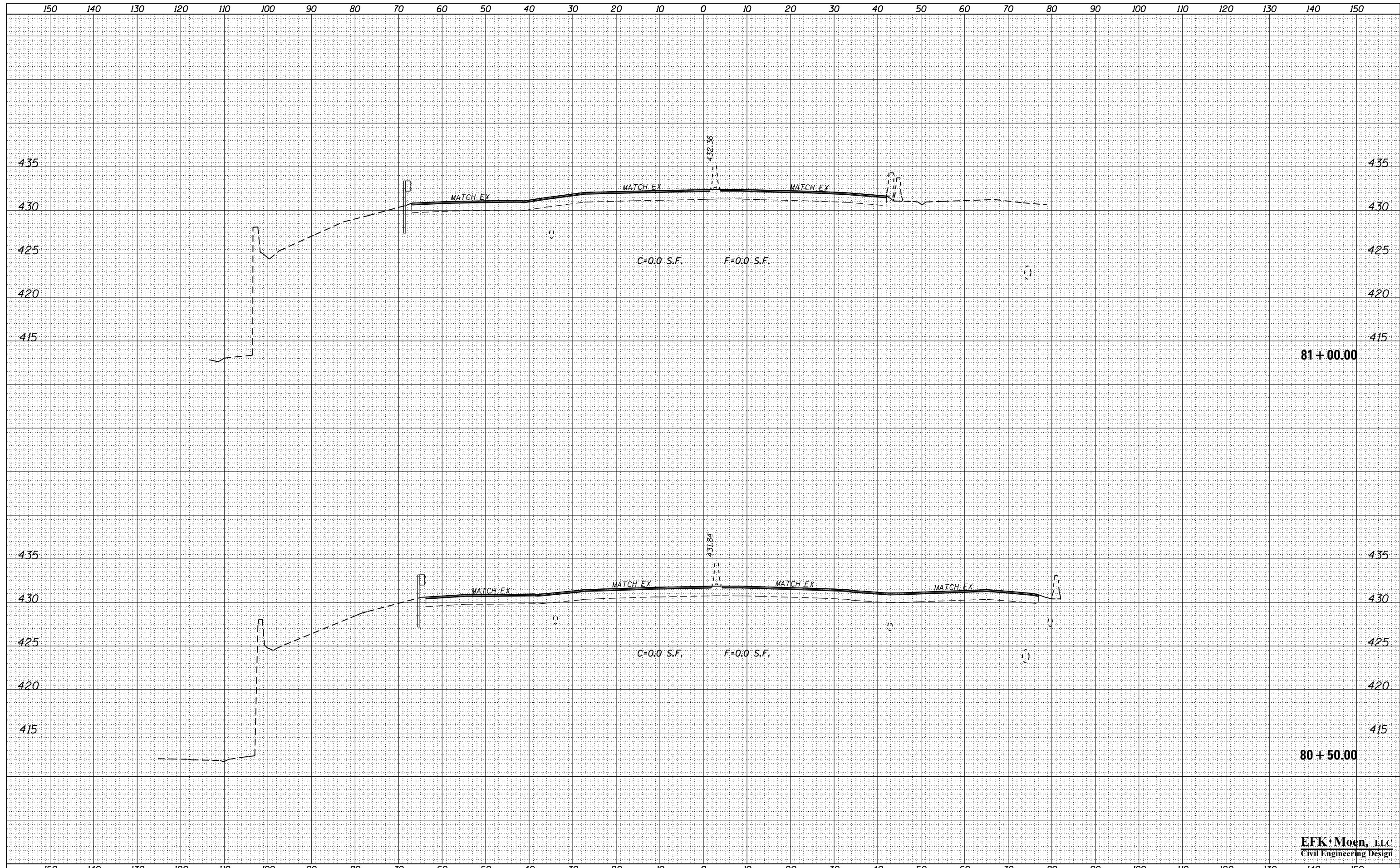
CROSS SECTIONS
MLK BRIDGE APPROACH
SCALE: 5'V - 10'H SHEET 10 OF 22 SHEETS STA. 79+50.00 TO STA. 80+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	277
				CONTRACT NO. 76G39
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
Civil Engineering Design

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

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



FILE NAME = 600-0876G39-sht-xsec-MLK.dgn
 MODELNAME

USER NAME = jd	DESIGNED - JRD	REVISD -
	DRAWN - SJF	REVISD -
PLOT SCALE = 20.0000' / in.	CHECKED - SLD	REVISD -
PLOT DATE = 3/22/2018	DATE - 3/22/2018	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

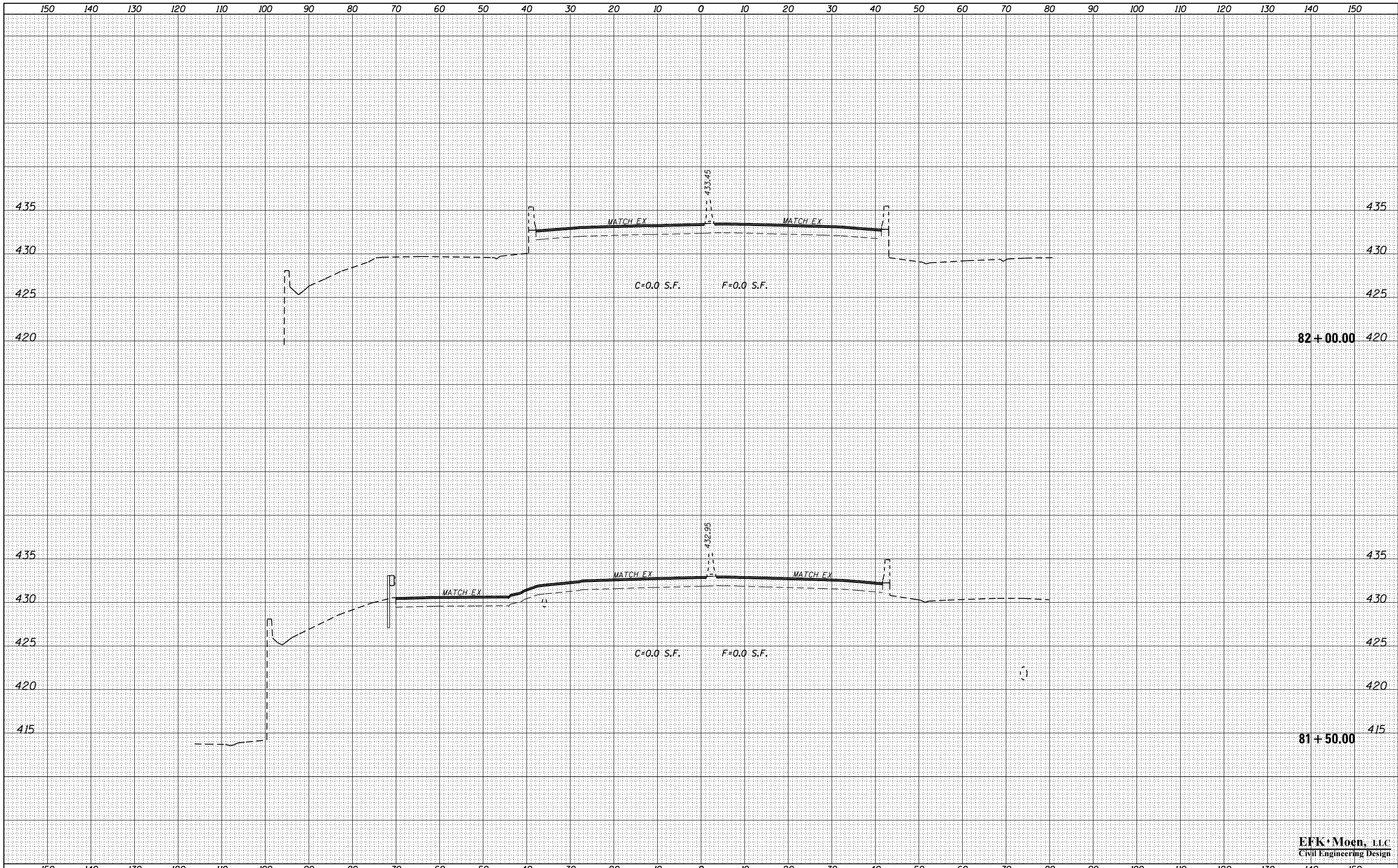
**CROSS SECTIONS
MLK BRIDGE APPROACH**
 SCALE: 5'V - 10'H SHEET 11 OF 22 SHEETS STA. 80+50.00 TO STA. 81+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	278
				CONTRACT NO. 76G39
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
Civil Engineering Design

DATE	BY
FINISHED SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS
	CHECKED

DATE	BY
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS
	CHECKED



FILE NAME = 600-0876G39-shr-xsec-MLK.dgn
 MODELNAME

USER NAME = jd
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 3/22/2018

DESIGNED - JRD
 DRAWN - SJF
 CHECKED - SLD
 DATE - 3/22/2018

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 MLK BRIDGE APPROACH**

SCALE: 5'V - 10'H SHEET 12 OF 22 SHEETS STA. 81+50.00 TO STA. 82+00.00

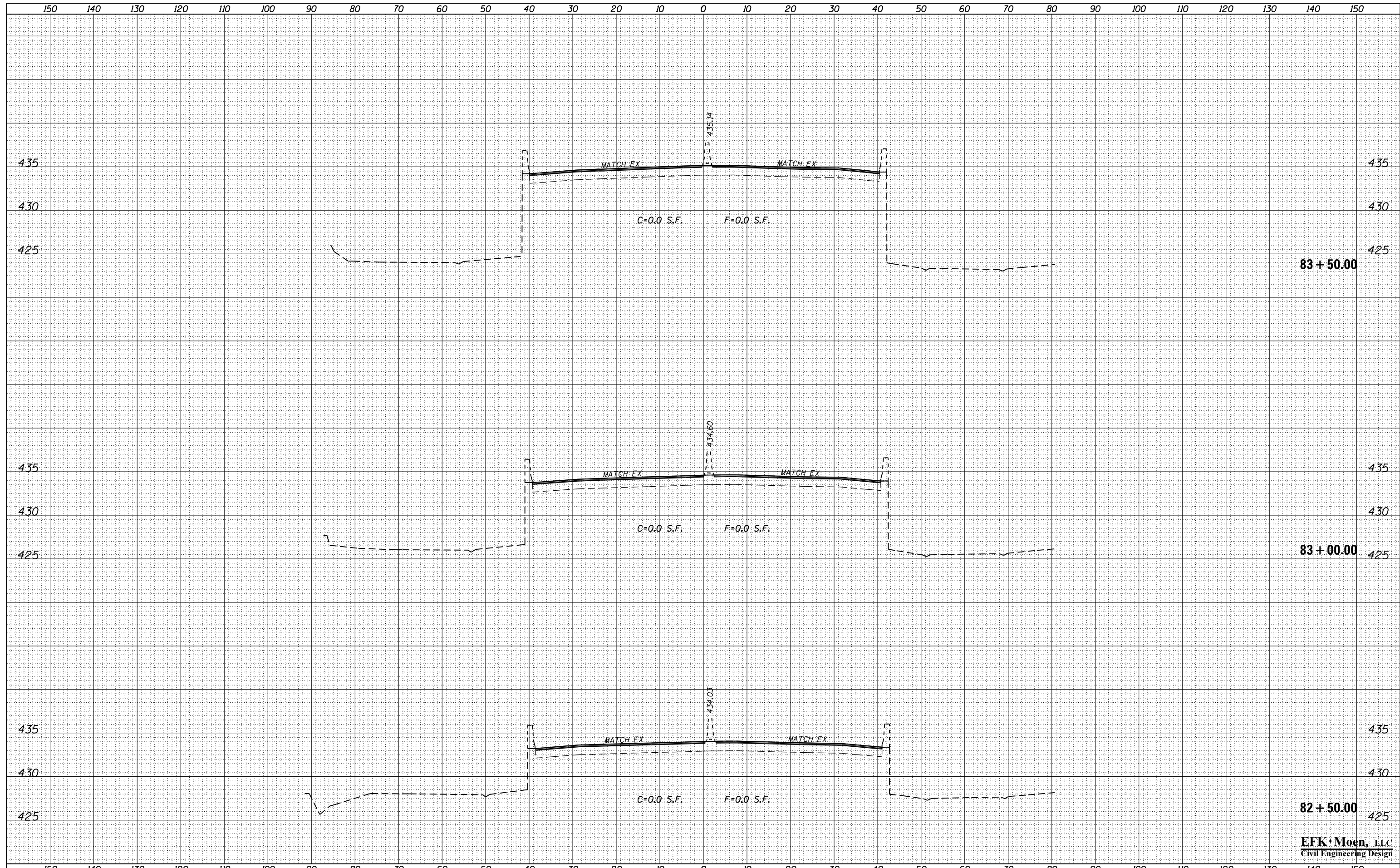
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	279
			CONTRACT NO. 76G39	

ILLINOIS FED. AID PROJECT

EFK Moen, LLC
 Civil Engineering Design

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

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



FILE NAME = 600-0876G39-sht-xsec-MLK.dgn
 MODELNAME

USER NAME = jd
 DESIGNED - JRD
 DRAWN - SJF
 CHECKED - SLD
 DATE - 3/22/2018

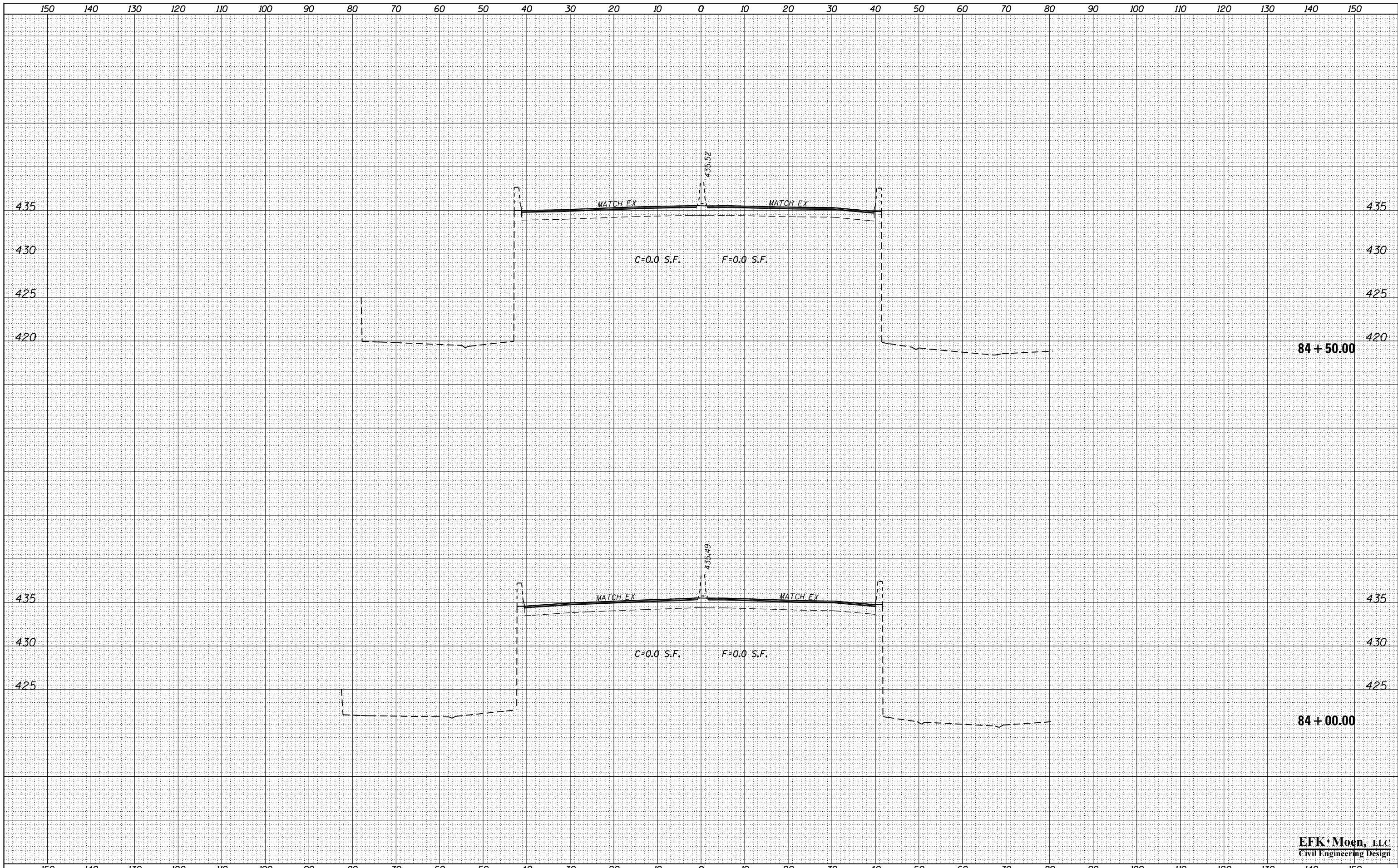
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 MLK BRIDGE APPROACH
 SCALE: 5'V - 10'H SHEET 13 OF 22 SHEETS STA. 82+50.00 TO STA. 83+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	280
			CONTRACT NO. 76G39	
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
 Civil Engineering Design



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

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

FILE NAME = 600-0876G39-shr-xsec-MLK.dgn
 MODELNAME

USER NAME = jd
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 3/22/2018

DESIGNED - JRD
 DRAWN - SJF
 CHECKED - SLD
 DATE - 3/22/2018

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

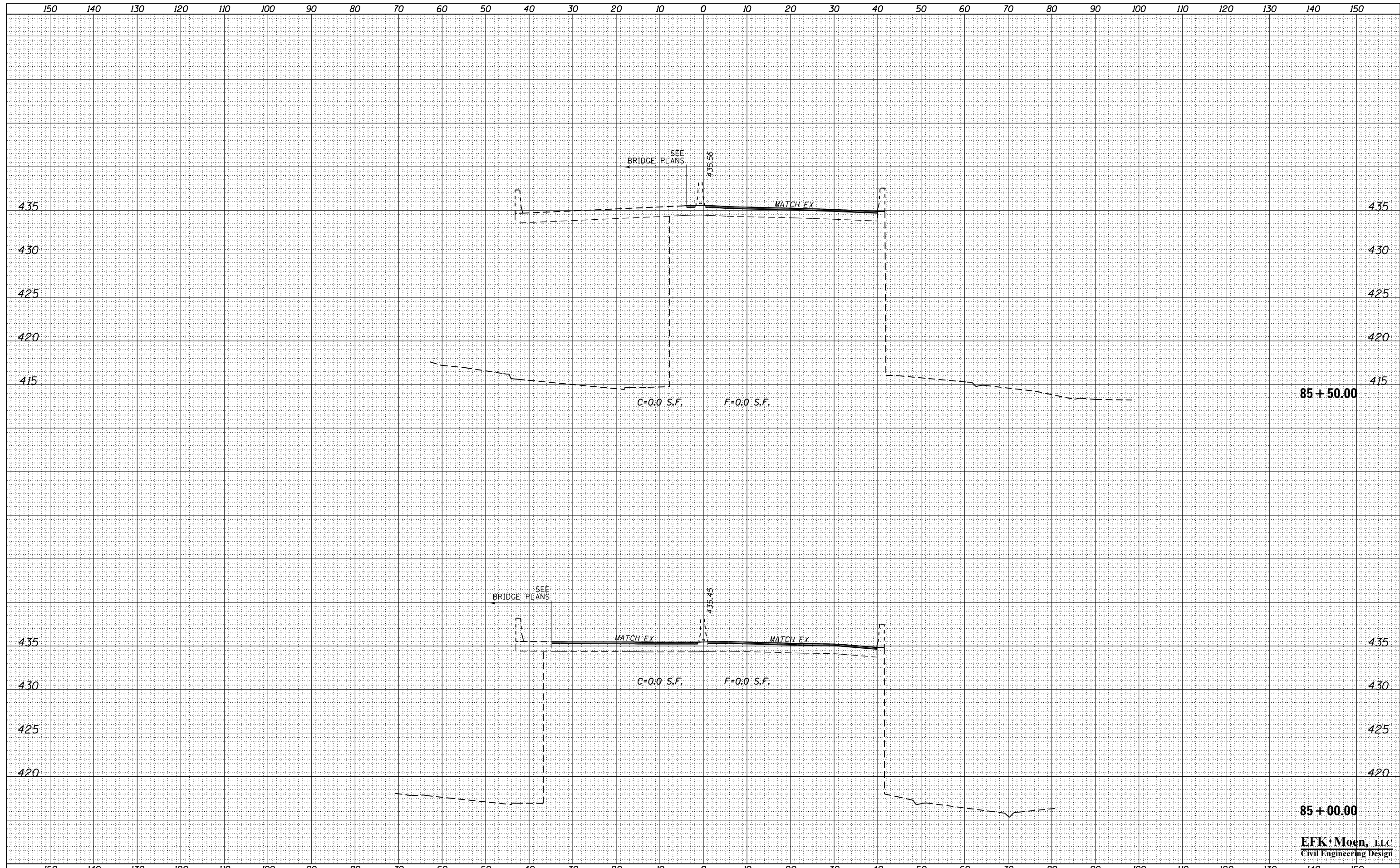
CROSS SECTIONS
 MLK BRIDGE APPROACH
 SCALE: 5'V - 10'H SHEET 14 OF 22 SHEETS STA. 84+00.00 TO STA. 84+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	281
			CONTRACT NO. 76G39	
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
 Civil Engineering Design

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

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



FILE NAME = 600-0876G39-sht-xsec-MLK.dgn
 MODELNAME

USER NAME = jd	DESIGNED - JRD	REVISED -
	DRAWN - SJF	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - SLD	REVISED -
PLOT DATE = 3/22/2018	DATE - 3/22/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
MLK BRIDGE APPROACH**

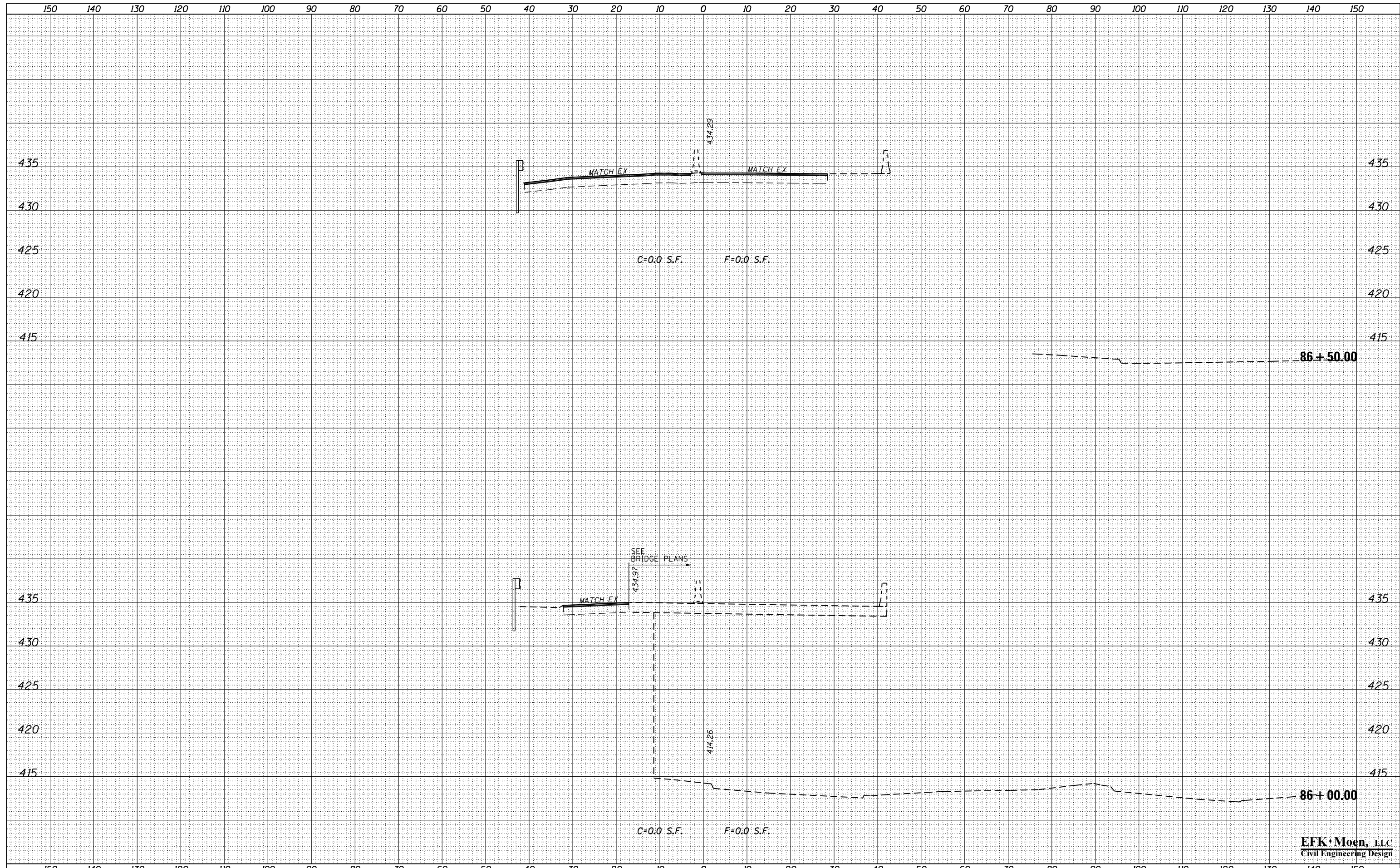
SCALE: 5'V - 10'H SHEET 15 OF 22 SHEETS STA. 85+00.00 TO STA. 85+50.00

F.A.P. RTE. 799	SECTION IBR-1-1	COUNTY ST. CLAIR	TOTAL SHEETS 315	SHEET NO. 282
CONTRACT NO. 76G39				ILLINOIS FED. AID PROJECT

EFK Moen, LLC
Civil Engineering Design

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINISH	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL	
NO.	



FILE NAME = 600-0876G39-shr-xsec-MLK.dgn

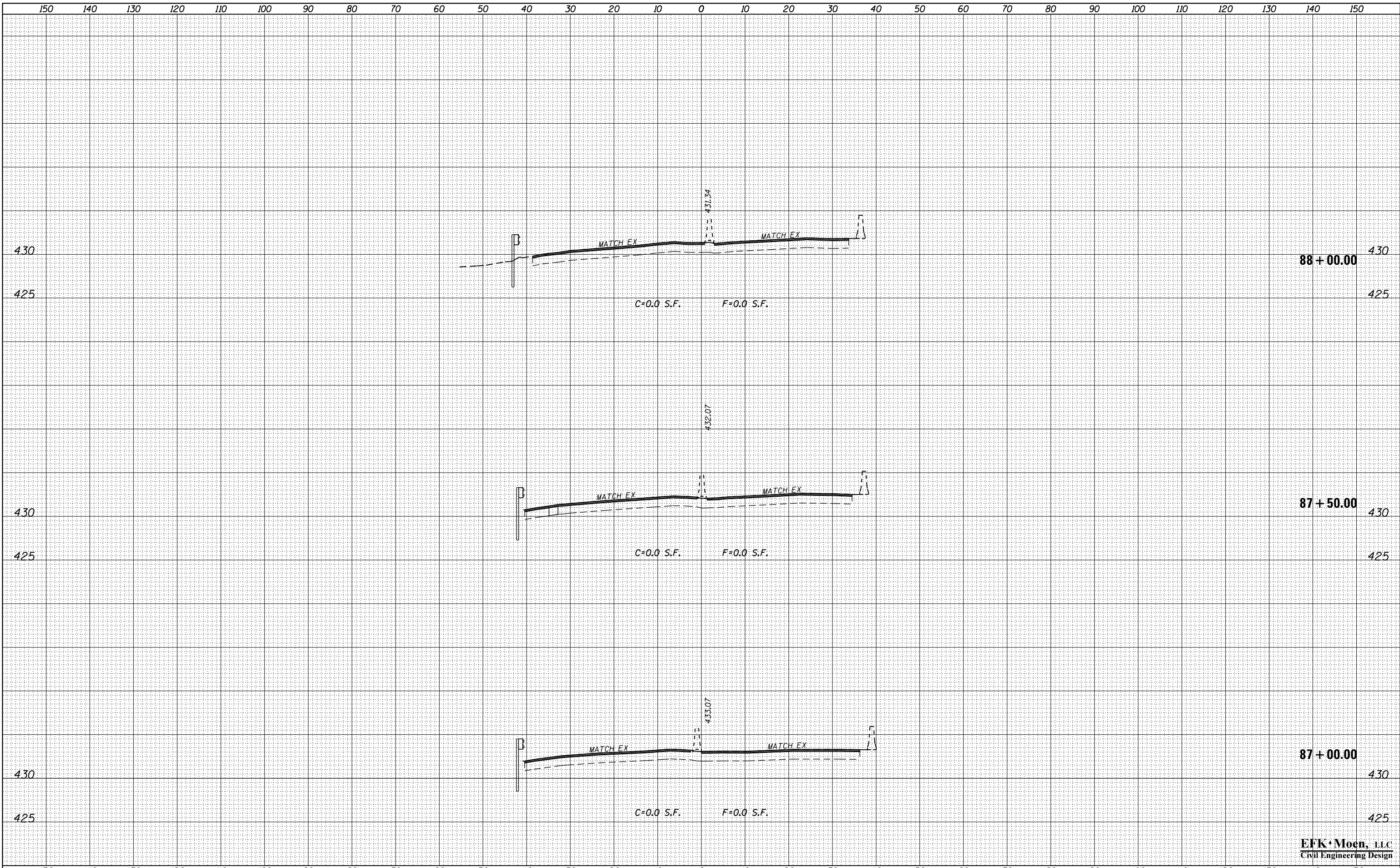
USER NAME = jd	DESIGNED - JRD	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - SJF	REVISED -
PLOT DATE = 3/22/2018	CHECKED - SLD	REVISED -
	DATE - 3/22/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
MLK BRIDGE APPROACH
SCALE: 5'V - 10'H SHEET 16 OF 22 SHEETS STA. 86+00.00 TO STA. 86+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	283
				CONTRACT NO. 76G39
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
Civil Engineering Design



FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

FILE NAME = 600-0876G39-sht-xsec-MLK.dgn
MODELNAME

USER NAME = jd
PLOT SCALE = 20.0000' / in.
PLOT DATE = 3/22/2018

DESIGNED - JRJ
DRAWN - SJF
CHECKED - SLD
DATE - 3/22/2018

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

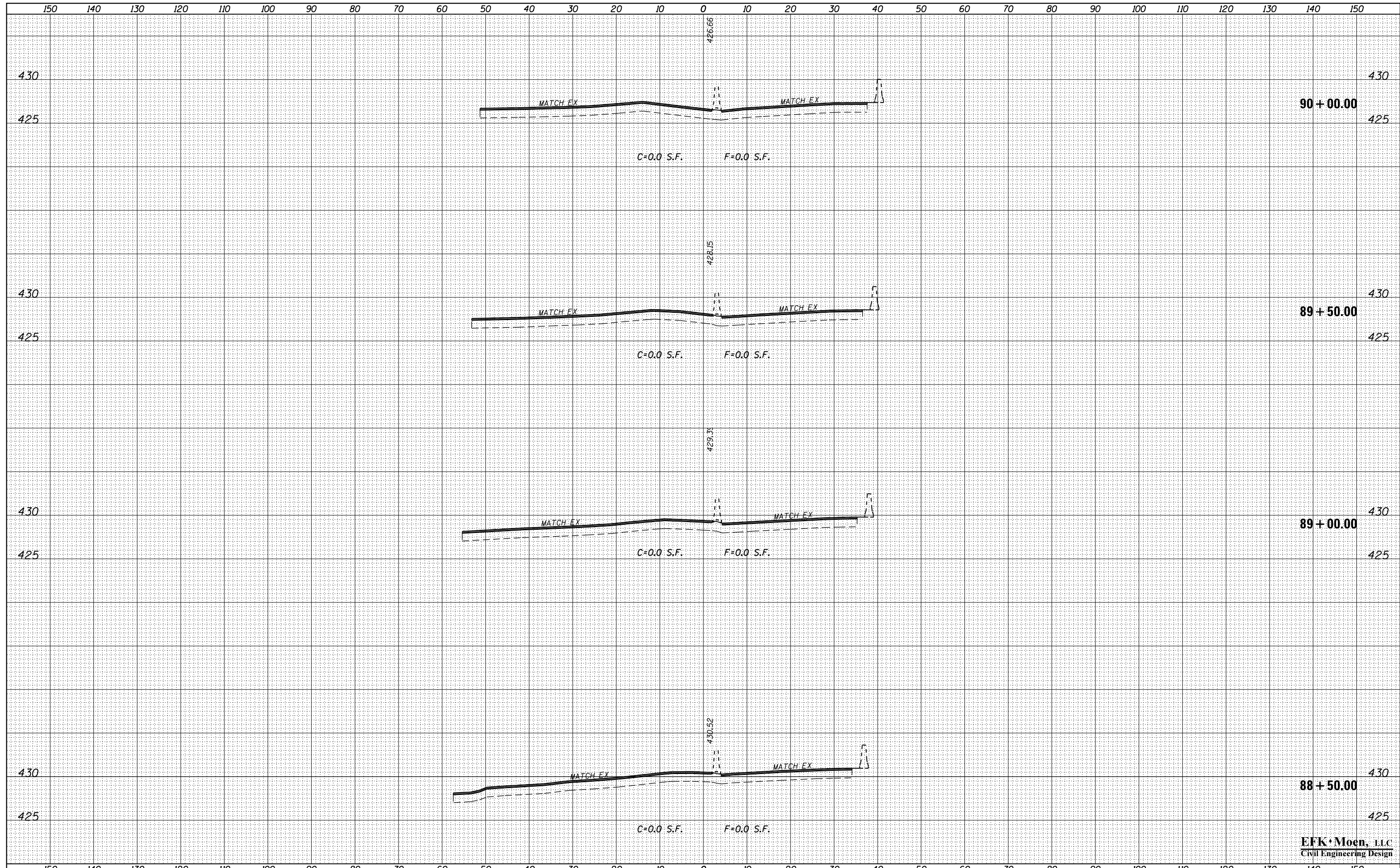
CROSS SECTIONS
MLK BRIDGE APPROACH
SCALE: 5'V - 10'H SHEET 17 OF 22 SHEETS STA. 87+00.00 TO STA. 88+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	284
CONTRACT NO. 76G39				ILLINOIS FED. AID PROJECT

EFK Moen, LLC
Civil Engineering Design

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

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

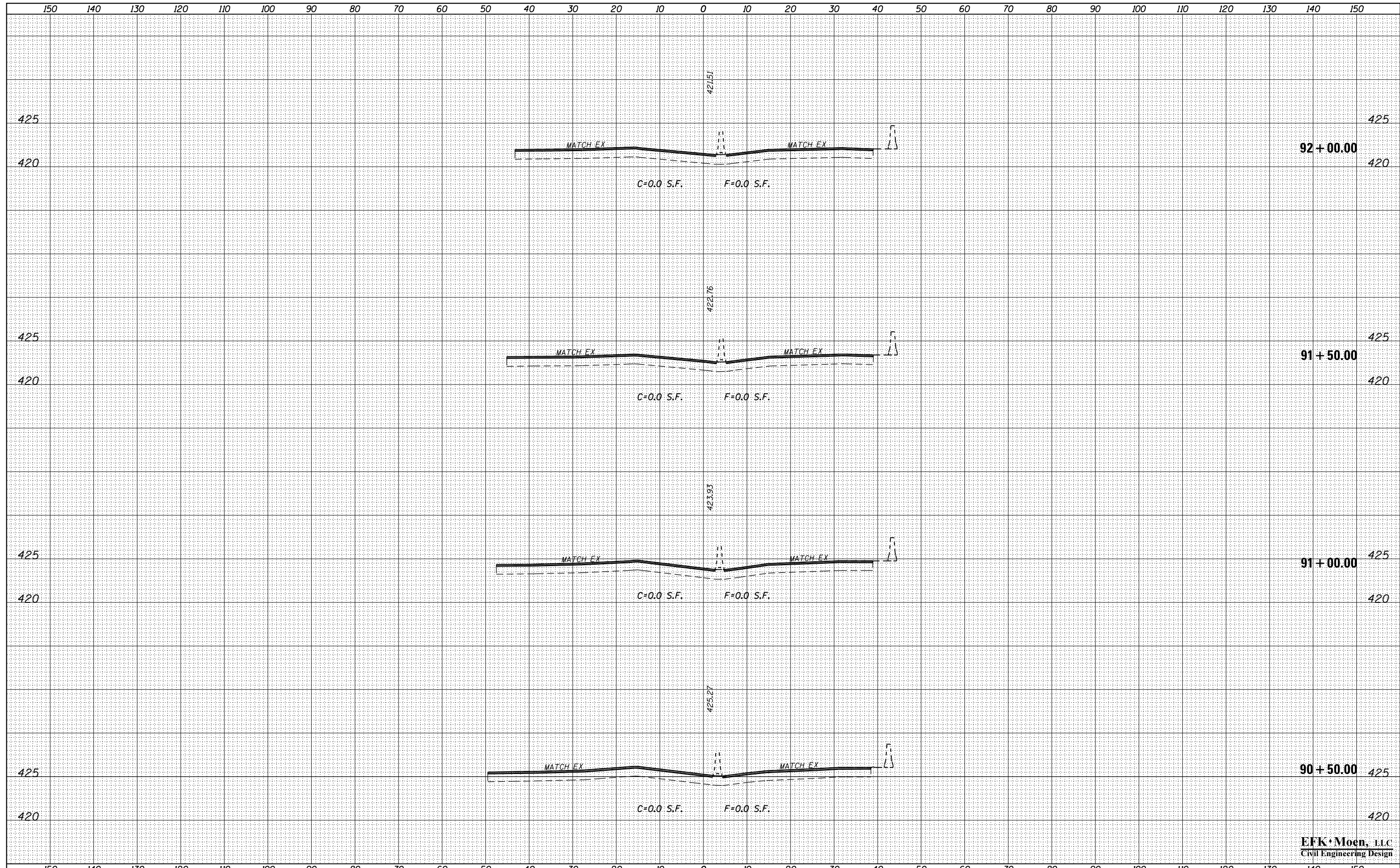


FILE NAME = 600-0876G39-sht-xsec-MLK.dgn	USER NAME = jd	DESIGNED - JRD	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS MLK BRIDGE APPROACH			F.A.P. RTE. 799	SECTION IBR-1-1	COUNTY ST. CLAIR	TOTAL SHEETS 315	SHEET NO. 285
MODELNAME	PLOT SCALE = 20.0000' / in.	CHECKED - SLD	REVISD -		SCALE: 5'V - 10'H	SHEET 18	OF 22 SHEETS	STA. 88+50.00	TO STA. 90+00.00	ILLINOIS FED. AID PROJECT CONTRACT NO. 76G39		
	PLOT DATE = 3/22/2018	DATE - 3/22/2018	REVISD -									

EFK Moen, LLC
Civil Engineering Design

DATE	
BY	
FINISHED SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	



FILE NAME = 600-0876G39-sht-xsec-MLK.dgn
 MODELNAME

USER NAME = jd	DESIGNED - JRD	REVISD -
PLOT SCALE = 20.0000' / in.	DRAWN - SJF	REVISD -
PLOT DATE = 3/22/2018	CHECKED - SLD	REVISD -
	DATE - 3/22/2018	REVISD -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

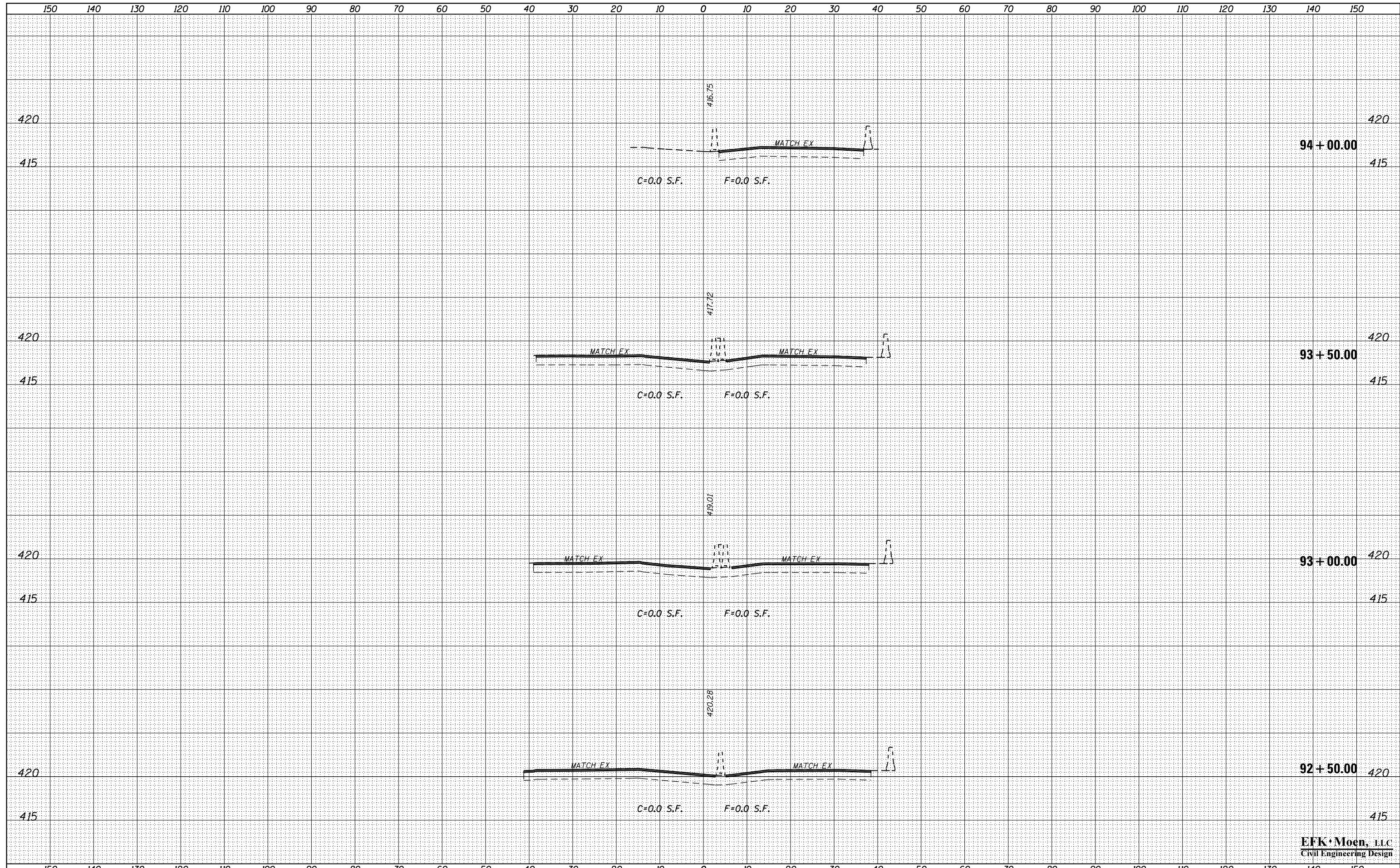
**CROSS SECTIONS
 MLK BRIDGE APPROACH**
 SCALE: 5'V - 10'H SHEET 19 OF 22 SHEETS STA. 90+50.00 TO STA. 92+00.00

F.A.P. RTE. 799	SECTION IBR-1-1	COUNTY ST. CLAIR	TOTAL SHEETS 315	SHEET NO. 286
			CONTRACT NO. 76G39	
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
 Civil Engineering Design

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

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



EFK Moen, LLC
Civil Engineering Design

FILE NAME = 600-0876G39-sht-xsec-MLK.dgn
MODELNAME

USER NAME = jd	DESIGNED - JRD	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - SJF	REVISED -
PLOT DATE = 3/22/2018	CHECKED - SLD	REVISED -
	DATE - 3/22/2018	REVISED -

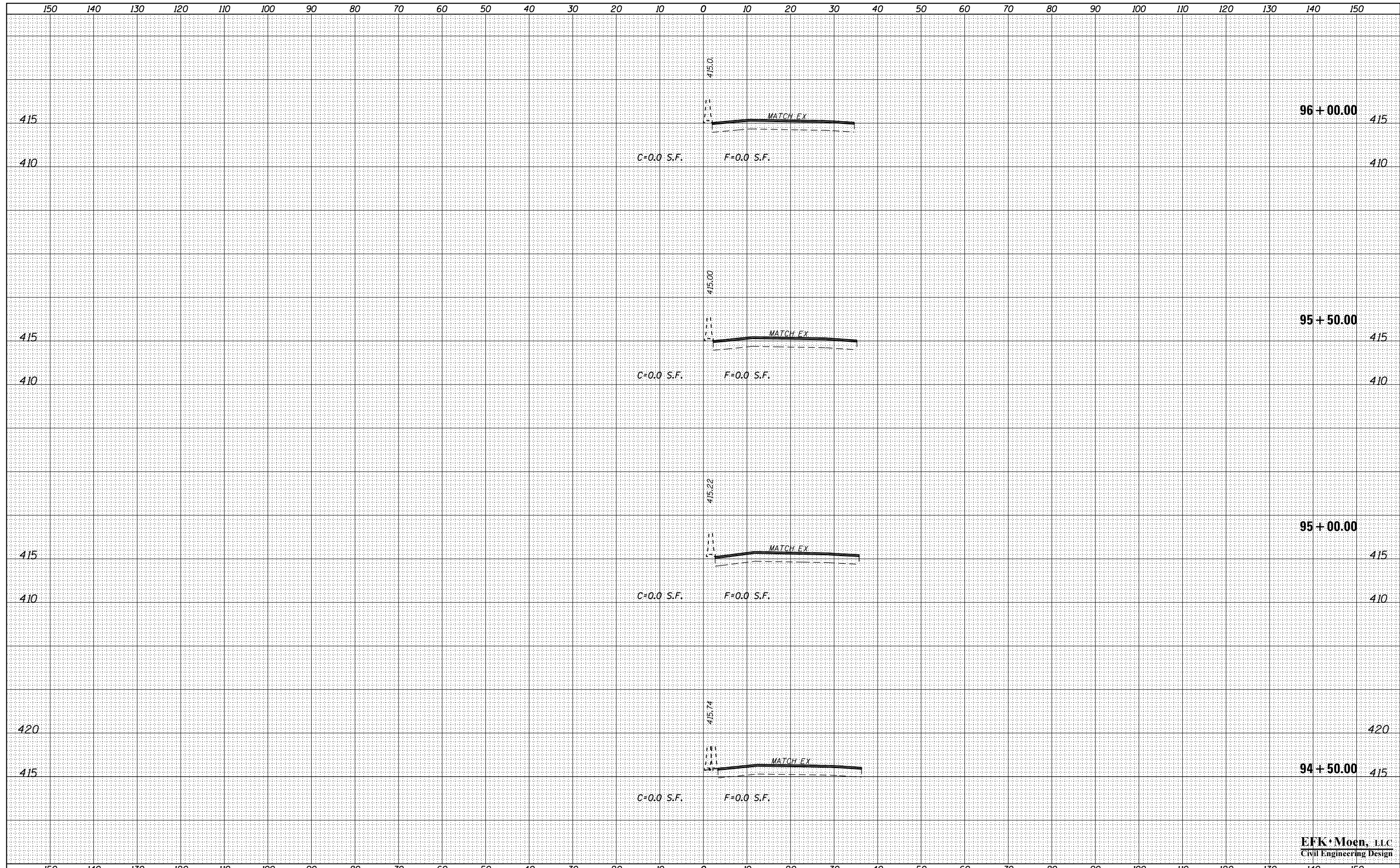
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
MLK BRIDGE APPROACH**
SCALE: 5'V - 10'H SHEET 20 OF 22 SHEETS STA. 92+50.00 TO STA. 94+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	287
			CONTRACT NO. 76G39	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

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



FILE NAME = 600-0876G39-sht-xsec-MLK.dgn

USER NAME = jd	DESIGNED - JRD	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - SJF	REVISED -
PLOT DATE = 3/22/2018	CHECKED - SLD	REVISED -
	DATE - 3/22/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
MLK BRIDGE APPROACH**

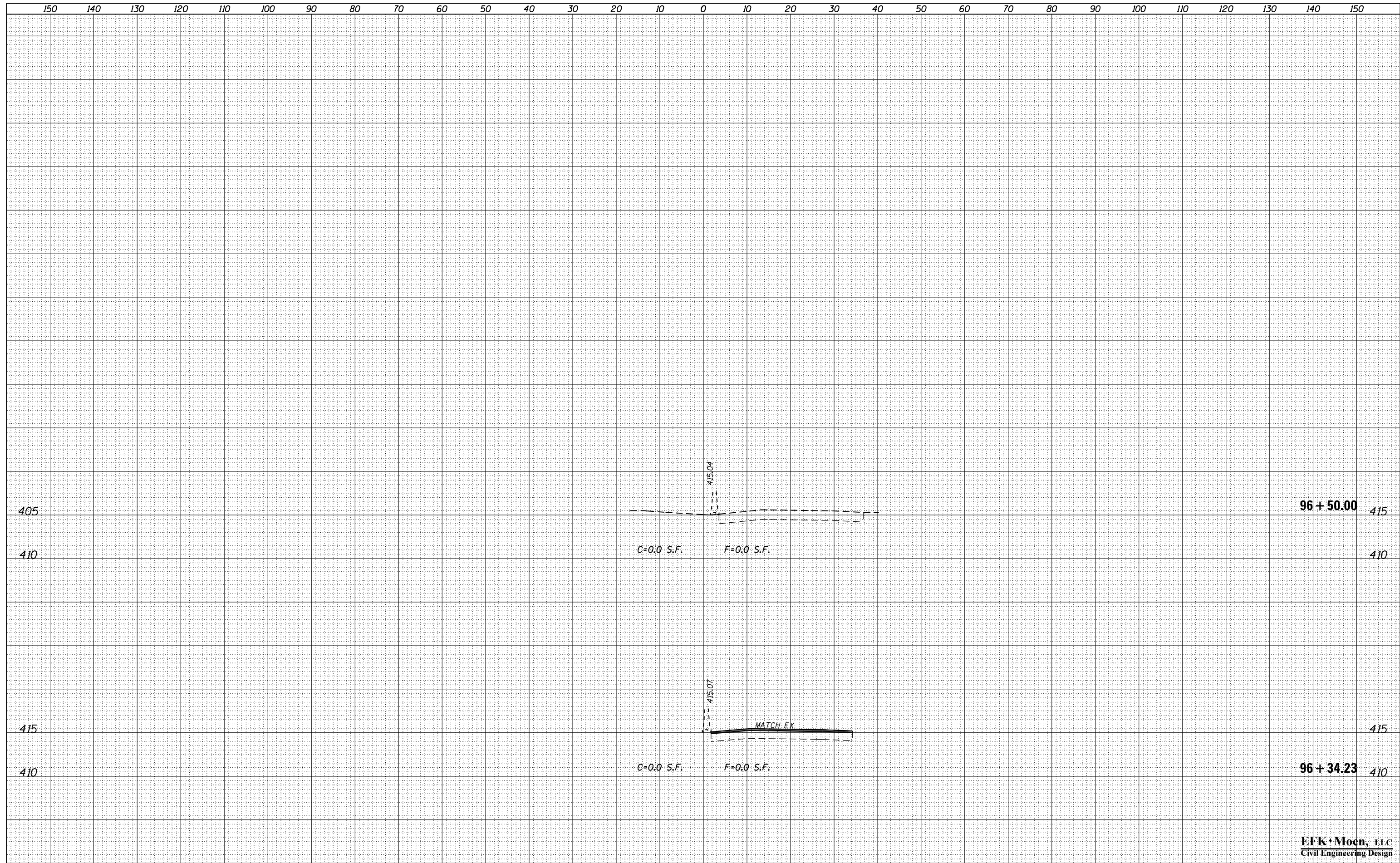
SCALE: 5'V - 10'H SHEET 21 OF 22 SHEETS STA. 94+50.00 TO STA. 96+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	288
			CONTRACT NO. 76G39	
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
Civil Engineering Design

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

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



FILE NAME = 600-0876G39-sht-xsec-MLK.dgn
 MODELNAME

USER NAME = jd	DESIGNED - JRD	REVISIED -
PLOT SCALE = 20.0000' / in.	DRAWN - SJF	REVISIED -
PLOT DATE = 3/22/2018	CHECKED - SLD	REVISIED -
	DATE - 3/22/2018	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
MLK BRIDGE APPROACH**

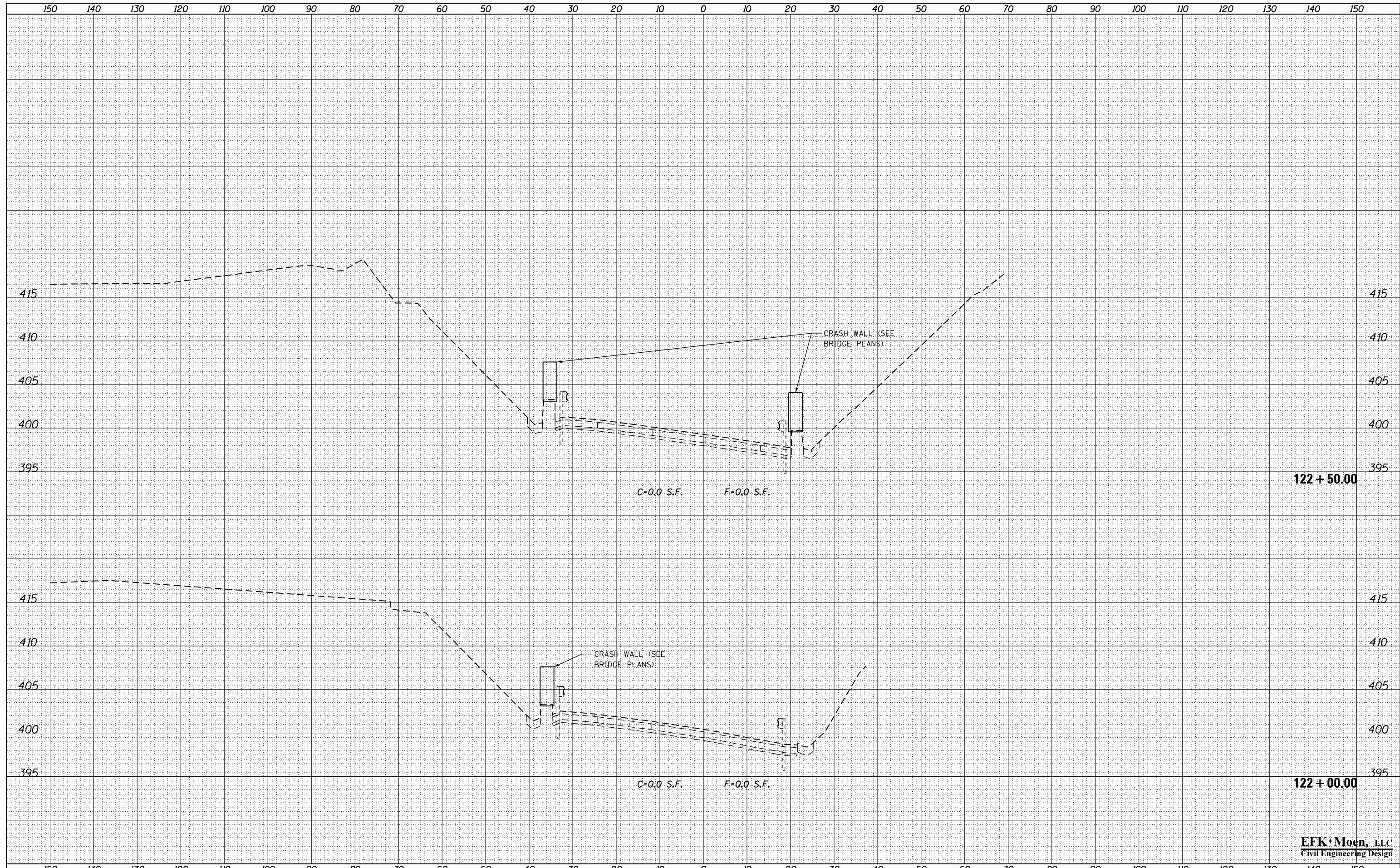
SCALE: 5'V - 10'H SHEET 22 OF 22 SHEETS STA. 96+34.23 TO STA. 96+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	289
				CONTRACT NO. 76G39
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
Civil Engineering Design

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

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



FILE NAME = 700-0876G39-sht-xsec-55-64.dgn
 MODELNAME

USER NAME = jd
 DESIGNED - JRD
 DRAWN - SJF
 CHECKED - SLD
 DATE - 3/22/2018

REVISIED -
 REVISIED -
 REVISIED -
 REVISIED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 I-55SB / 64WB

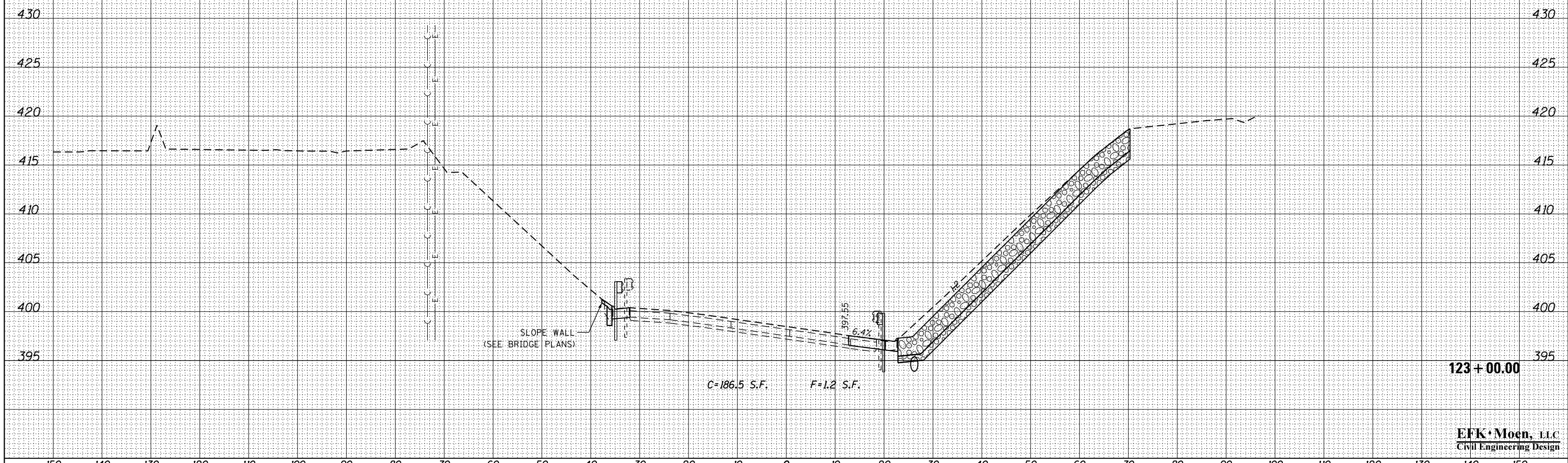
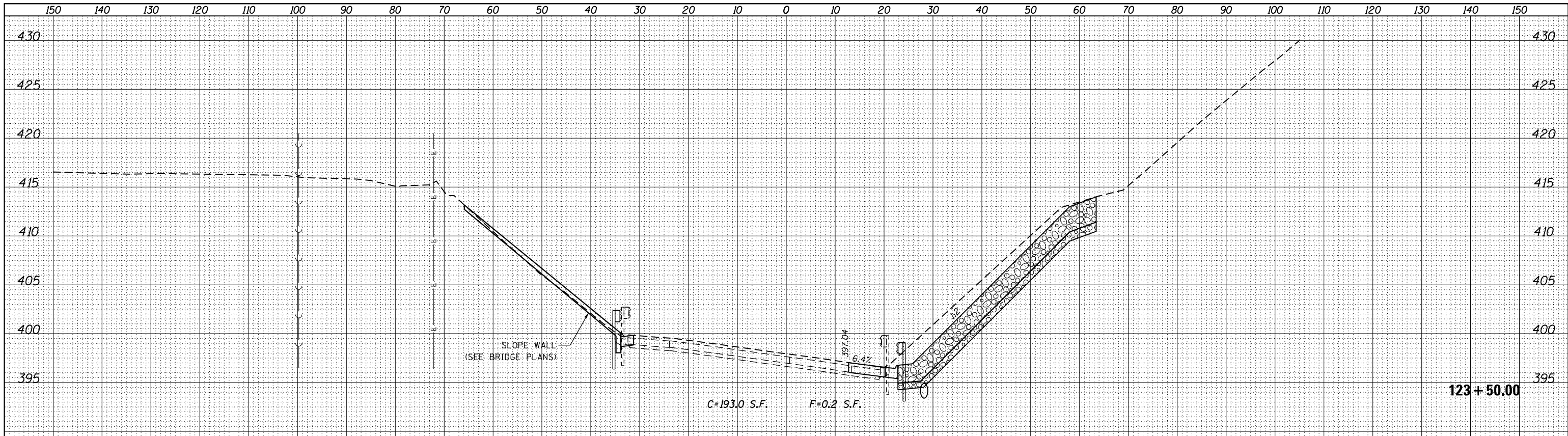
SCALE: 10'H : 5'V SHEET 1 OF 8 SHEETS STA. 122+00.00 TO STA. 122+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	290
			CONTRACT NO. 76C39	
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
 Civil Engineering Design

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

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



EFK Moen, LLC
Civil Engineering Design

FILE NAME = 700-0876G39-shr-xsec-55-64.dgn
MODELNAME

USER NAME = jd
DESIGNED - JRD
DRAWN - SJF
CHECKED - SLD
DATE - 3/22/2018
PLOT SCALE = 20.0000' / in.
PLOT DATE = 3/22/2018

REVISÉD -
REVISÉD -
REVISÉD -
REVISÉD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

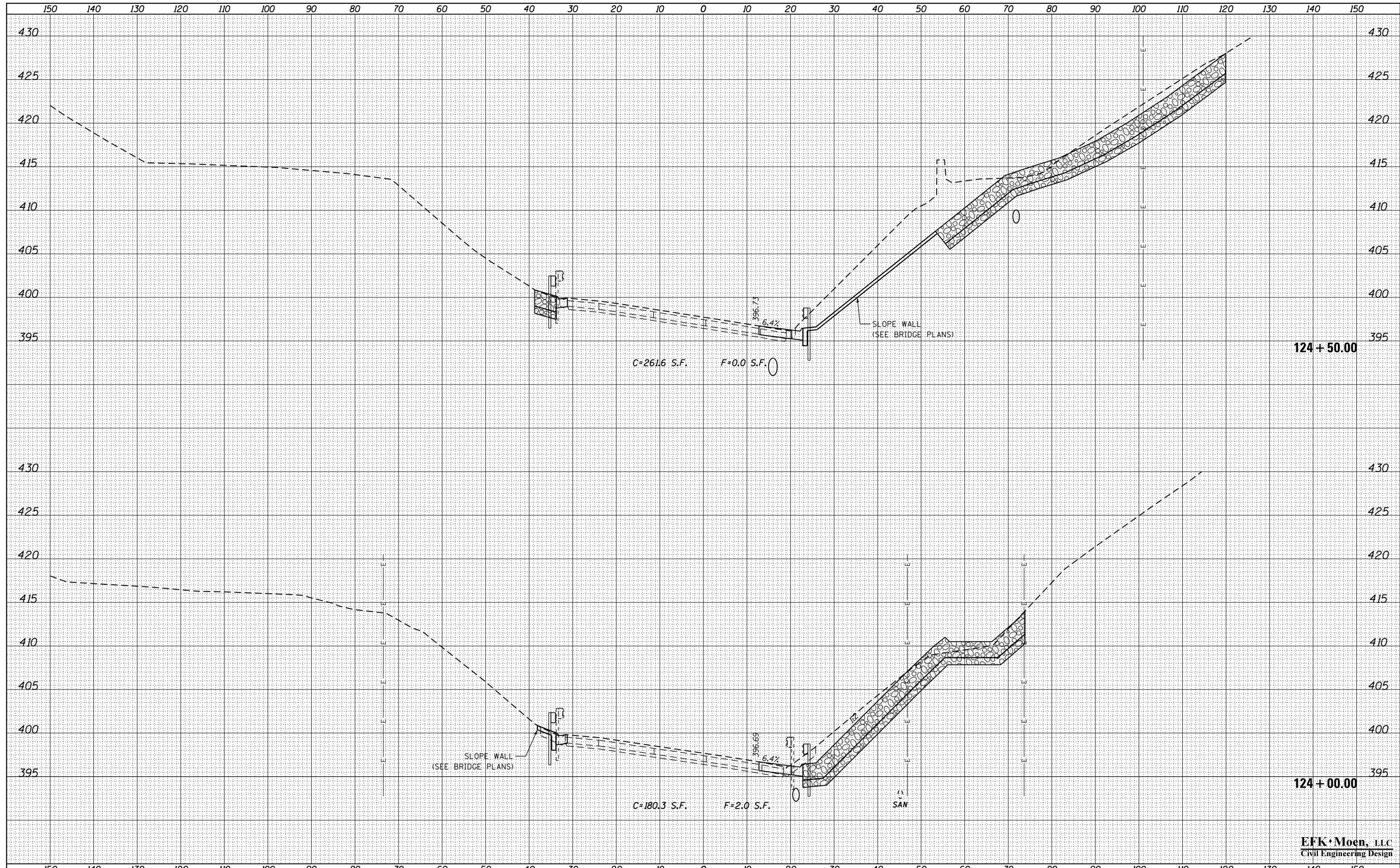
**CROSS SECTIONS
I-55SB / 64WB**

SCALE: 10'H : 5'V SHEET 2 OF 8 SHEETS STA. 123+00.00 TO STA. 123+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	291
			CONTRACT NO. 76G39	
ILLINOIS FED. AID PROJECT				

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

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



FILE NAME = 700-0876G39-shr-xsec-55-64.dgn
 MODELNAME

USER NAME = jd
 DESIGNED - JRD
 DRAWN - SJF
 CHECKED - SLD
 DATE - 3/22/2018

REVISIED -
 REVISIED -
 REVISIED -
 REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

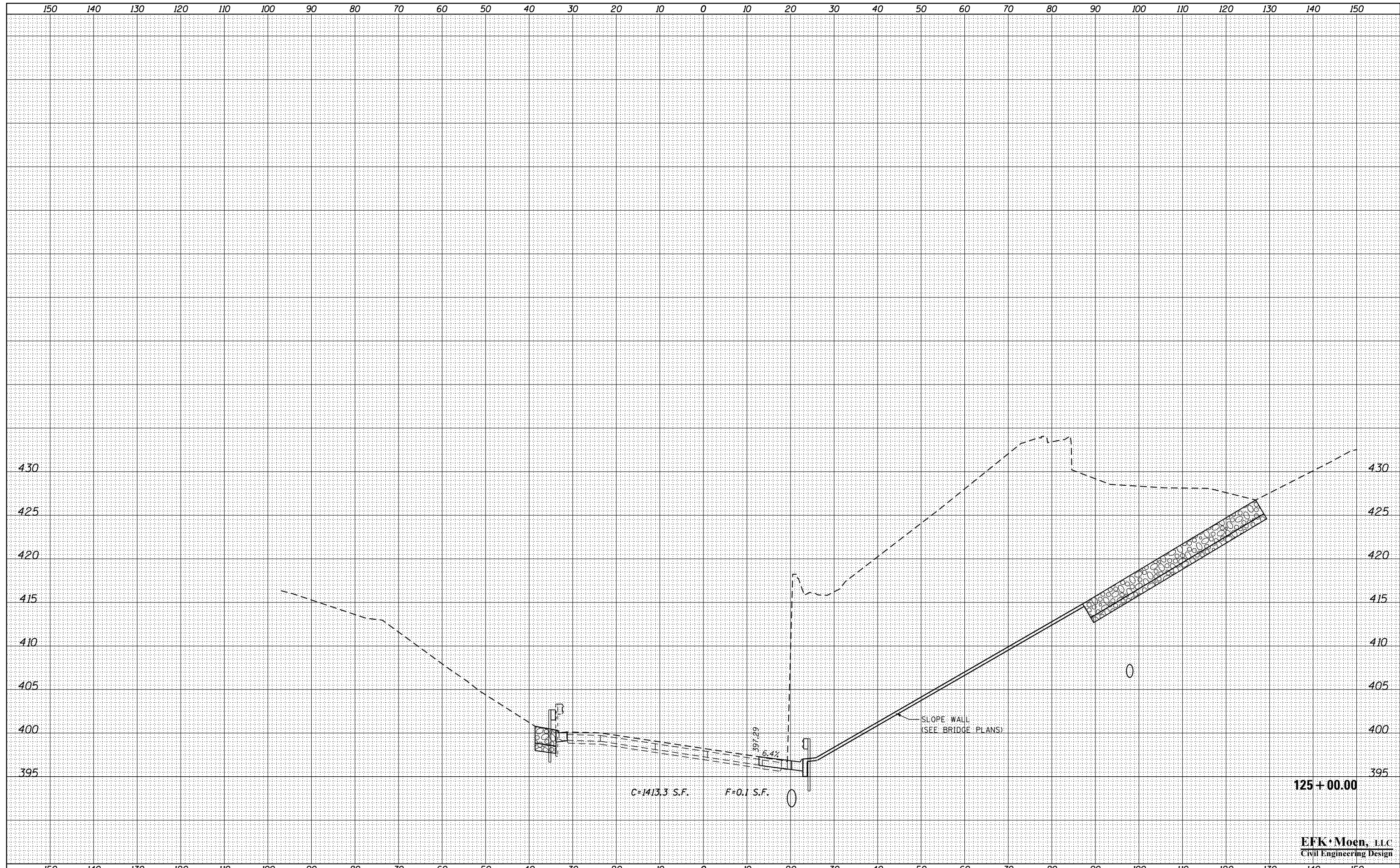
**CROSS SECTIONS
 I-55SB / 64WB**
 SCALE: 10'H : 5'V SHEET 3 OF 8 SHEETS STA. 124+00.00 TO STA. 124+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	292
CONTRACT NO. 76G39				
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
 Civil Engineering Design

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

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



FILE NAME = 700-0876G39-shr-xsec-55-64.dgn
 MODELNAME

USER NAME = jd	DESIGNED - JRD	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - SJF	REVISED -
PLOT DATE = 3/22/2018	CHECKED - SLD	REVISED -
	DATE - 3/22/2018	REVISED -

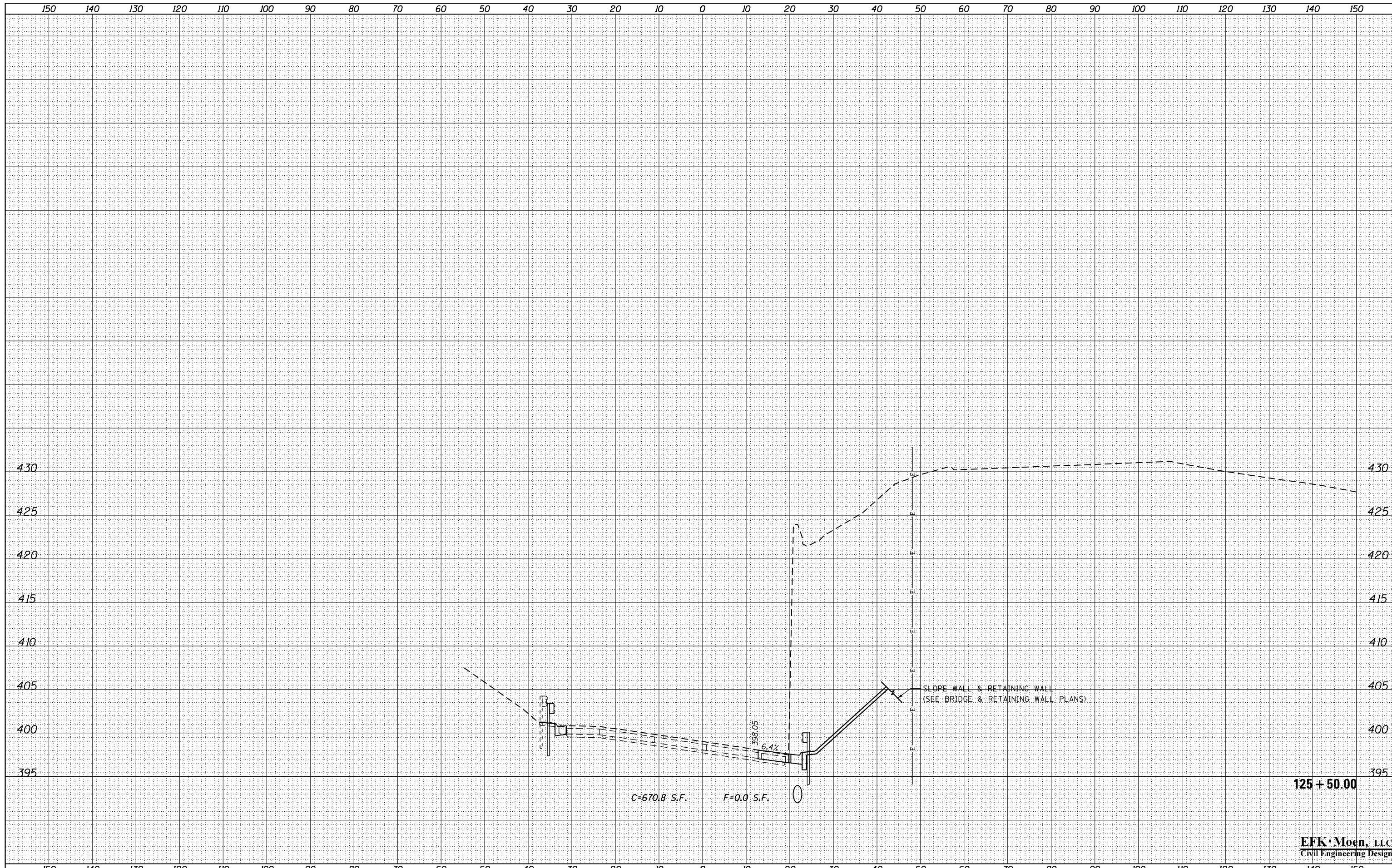
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 I-55SB / 64WB

SCALE: 10'H : 5'V SHEET 4 OF 8 SHEETS STA. 125+00.00 TO STA. 125+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	293
			CONTRACT NO. 76G39	
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
 Civil Engineering Design



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

FILE NAME = 700-0876G39-sht-xsec-55-64.dgn

USER NAME = jd
 DESIGNED - JRD
 DRAWN - SJF
 PLOT SCALE = 20.0000' / in.
 CHECKED - SLD
 DATE - 3/22/2018

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 I-55SB / 64WB

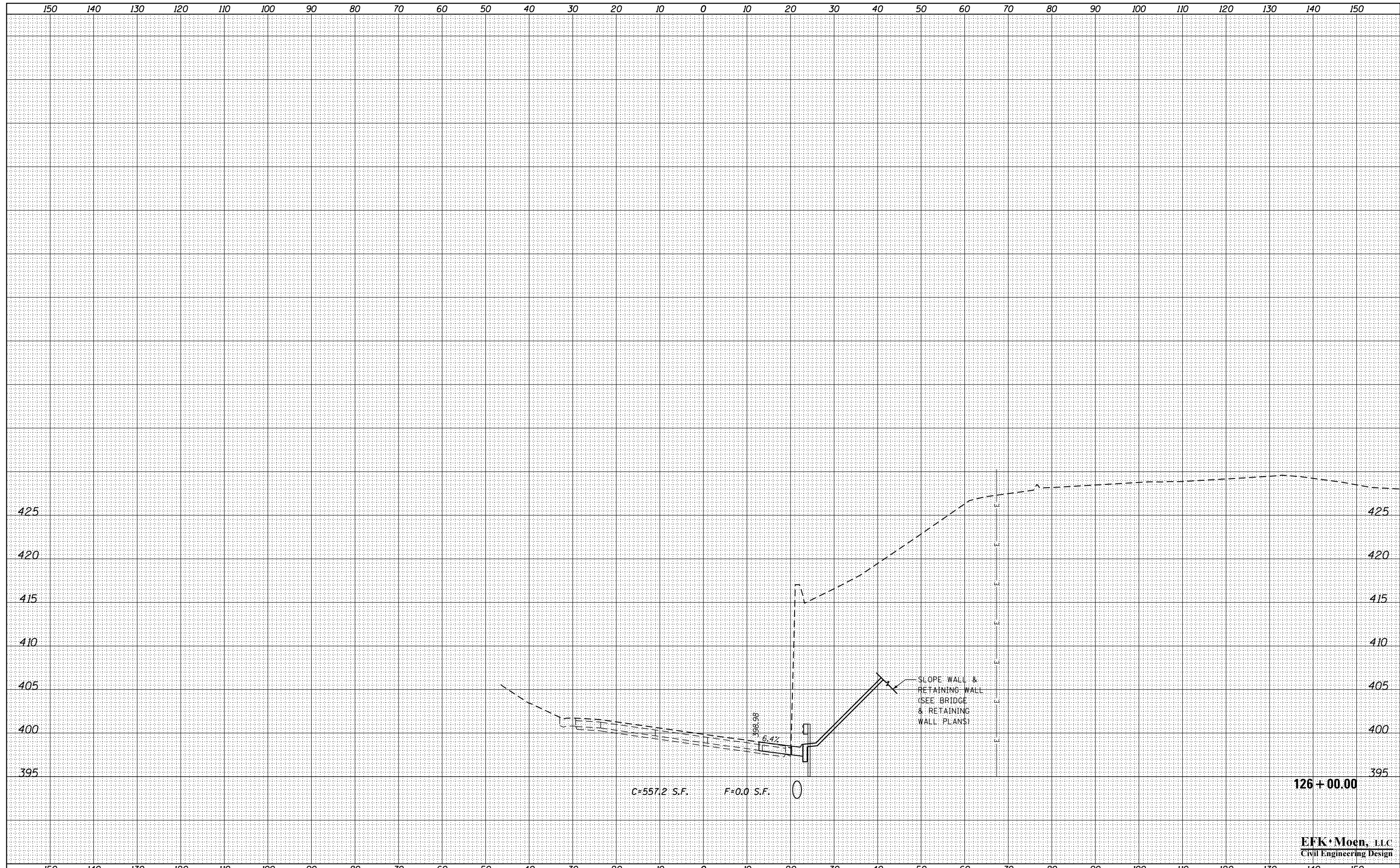
SCALE: 10'H : 5'V SHEET 5 OF 8 SHEETS STA. 125+50.00 TO STA.125+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	294
CONTRACT NO. 76G39			ILLINOIS FED. AID PROJECT	

EFK Moen, LLC
 Civil Engineering Design

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

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



126 + 00.00

EFK Moen, LLC
Civil Engineering Design

FILE NAME = 700-0876G39-shr-xsec-55-64.dgn

USER NAME = jd	DESIGNED - JRD	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - SJF	REVISED -
DATE = 3/22/2018	CHECKED - SLD	REVISED -
	DATE - 6/13/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

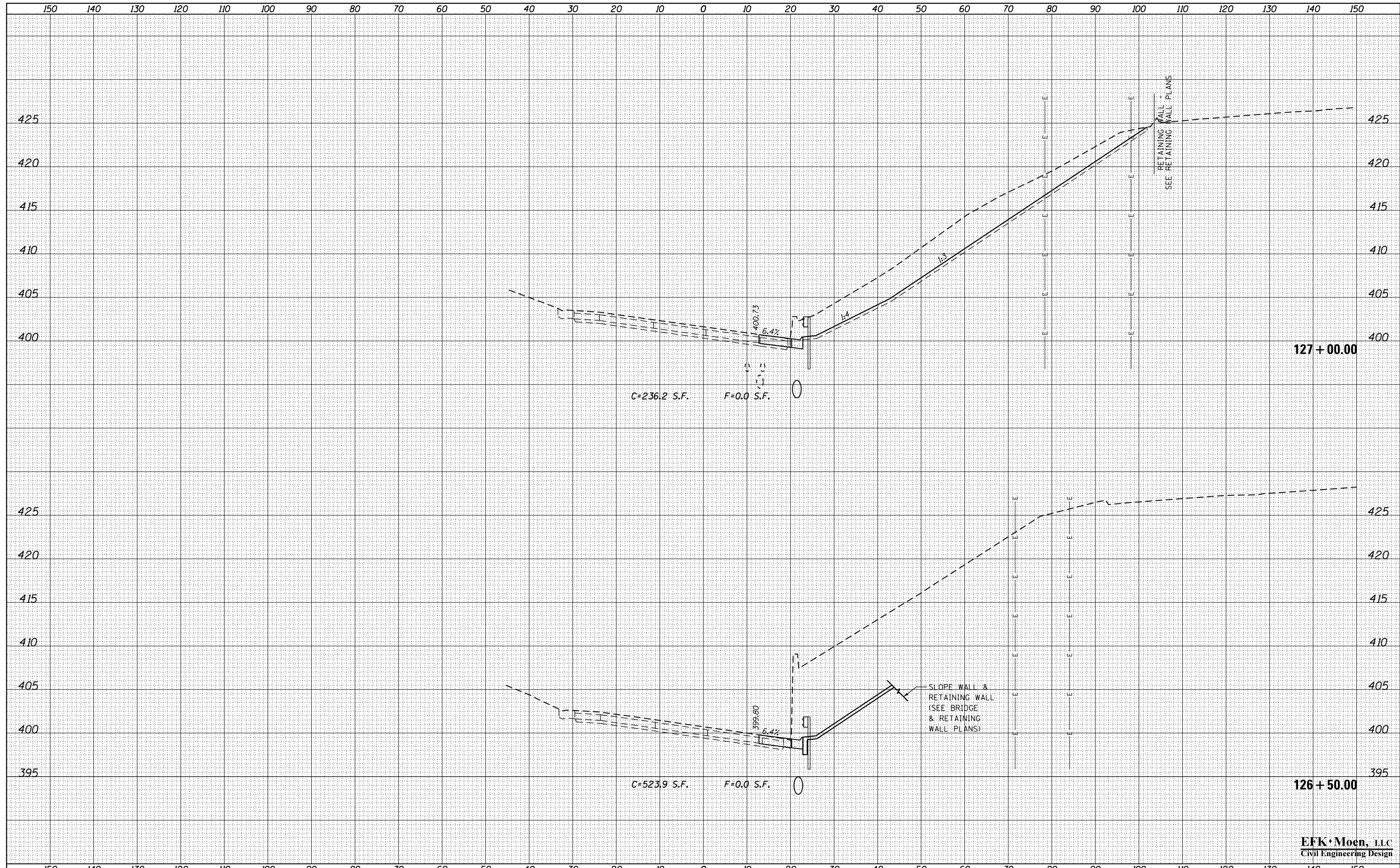
**CROSS SECTIONS
I-55SB / 64WB**

SCALE: 10'H : 5'V SHEET 6 OF 8 SHEETS STA. 126+00.00 TO STA. 126+00.00

F.A.P. RTE. 799	SECTION IBR-1-1	COUNTY ST. CLAIR	TOTAL SHEETS 315	SHEET NO. 295
			CONTRACT NO. 76G39	
ILLINOIS FED. AID PROJECT				

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

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



FILE NAME = 700-0876G39-shr-xsec-55-64.dgn

USER NAME = jd

DESIGNED - JRD

DRAWN - SJF

CHECKED - SLD

DATE - 3/22/2018

REVISED -

REVISED -

REVISED -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I-55SB / 64WB

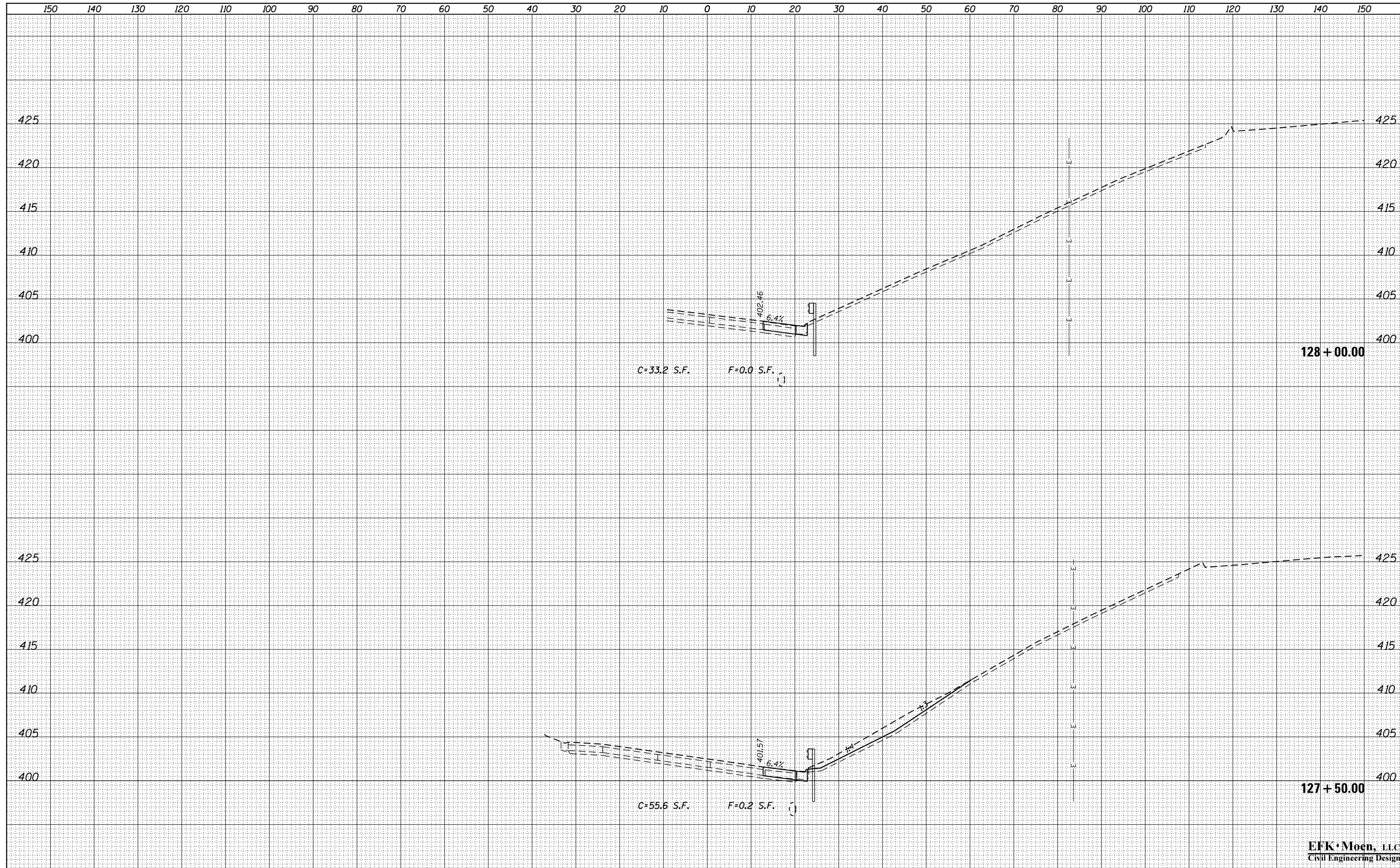
SCALE: 10'H : 5'V SHEET 7 OF 8 SHEETS STA. 126+50.00 TO STA. 127+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	296
CONTRACT NO. 76C39				

EFK Moen, LLC
Civil Engineering Design

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

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



FILE NAME = 700-0876G39-shr-xsec-55-64.dgn
 MODELNAME

USER NAME = jd	DESIGNED - JRD	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - SJF	REVISED -
PLOT DATE = 3/22/2018	CHECKED - SLD	REVISED -
	DATE - 3/22/2018	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

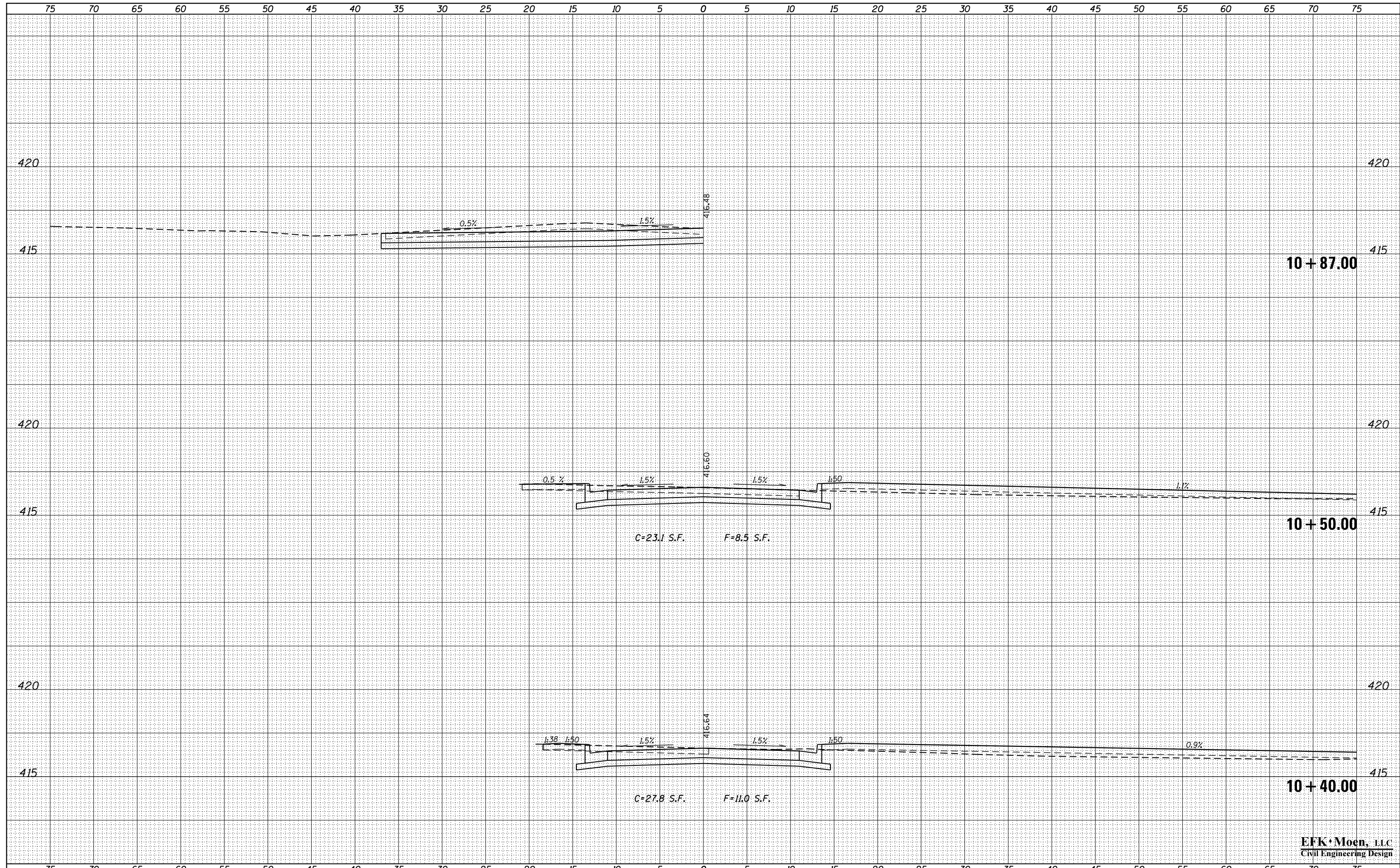
CROSS SECTIONS
 I-55SB / 64WB
 SCALE: 10'H : 5'V SHEET 8 OF 8 SHEETS STA. 127+50.00 TO STA. 128+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	297
CONTRACT NO. 76G39				
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
 Civil Engineering Design

BY	DATE

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	



FILE NAME = 800-0876G39-sh1-xsec-MoAve.dgn

USER NAME = jd	DESIGNED - JRD	REVISIONS
PLOT SCALE = 10.0000' / in.	DRAWN - SJF	REVISIONS
PLOT DATE = 3/22/2018	CHECKED - SLD	REVISIONS
	DATE - 3/22/2018	REVISIONS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
MISSOURI AVENUE**

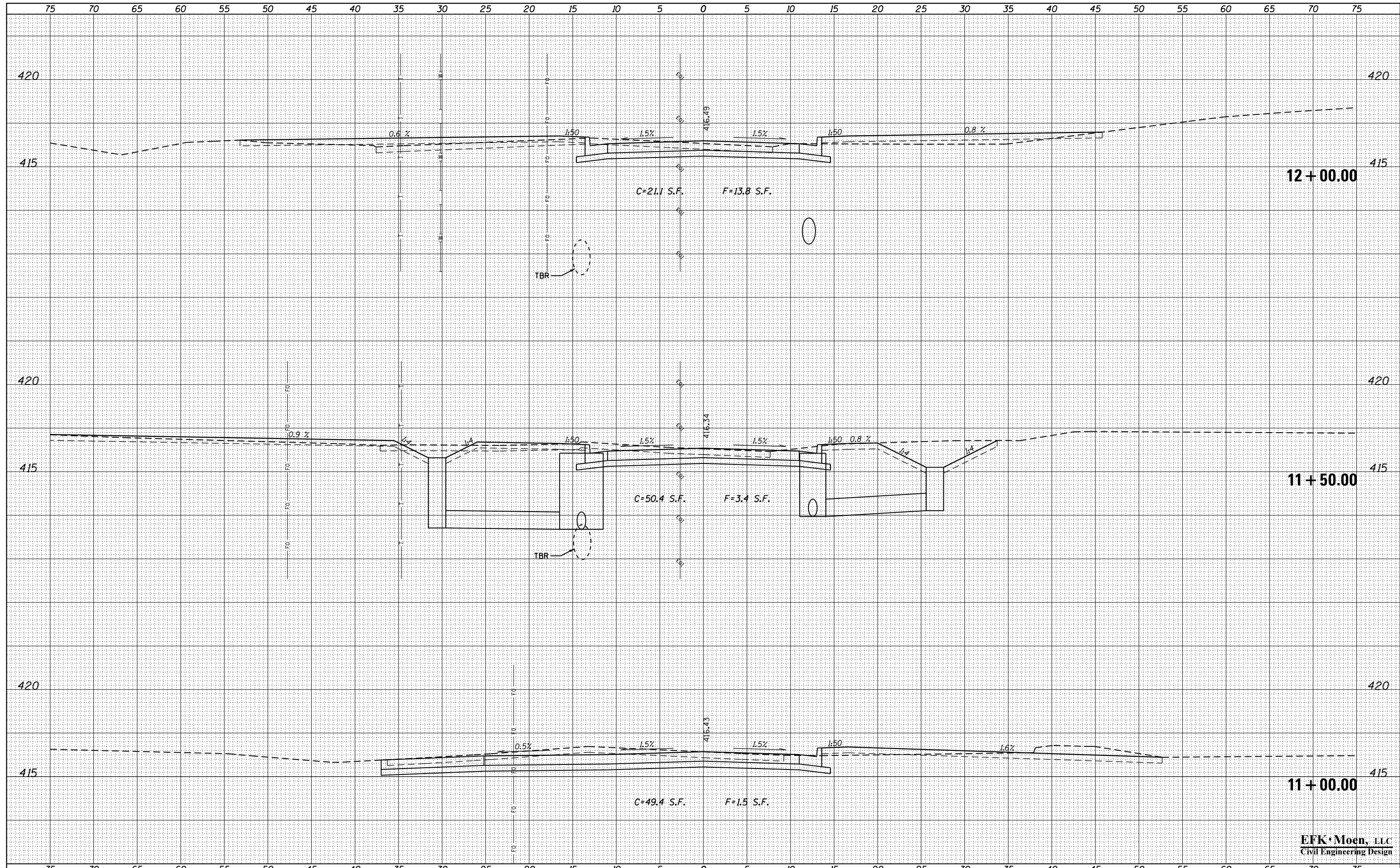
SCALE: 5'H : 2.5'V SHEET 1 OF 6 SHEETS STA. 10+40.00 TO STA. 10+87.00

F.A.P. RTE. 799	SECTION 1BR-1-1	COUNTY ST. CLAIR	TOTAL SHEETS 315	SHEET NO. 298
			CONTRACT NO. 76G39	
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
Civil Engineering Design

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

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



FILE NAME = 800-0876G39-shr-xsec-MoAve.dgn
 MODELNAME

USER NAME = jd	DESIGNED - JRD	REVISD -
	DRAWN - SJF	REVISD -
PLOT SCALE = 10.0000' / in.	CHECKED - SLD	REVISD -
PLOT DATE = 3/22/2018	DATE - 3/22/2018	REVISD -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 MISSOURI AVENUE

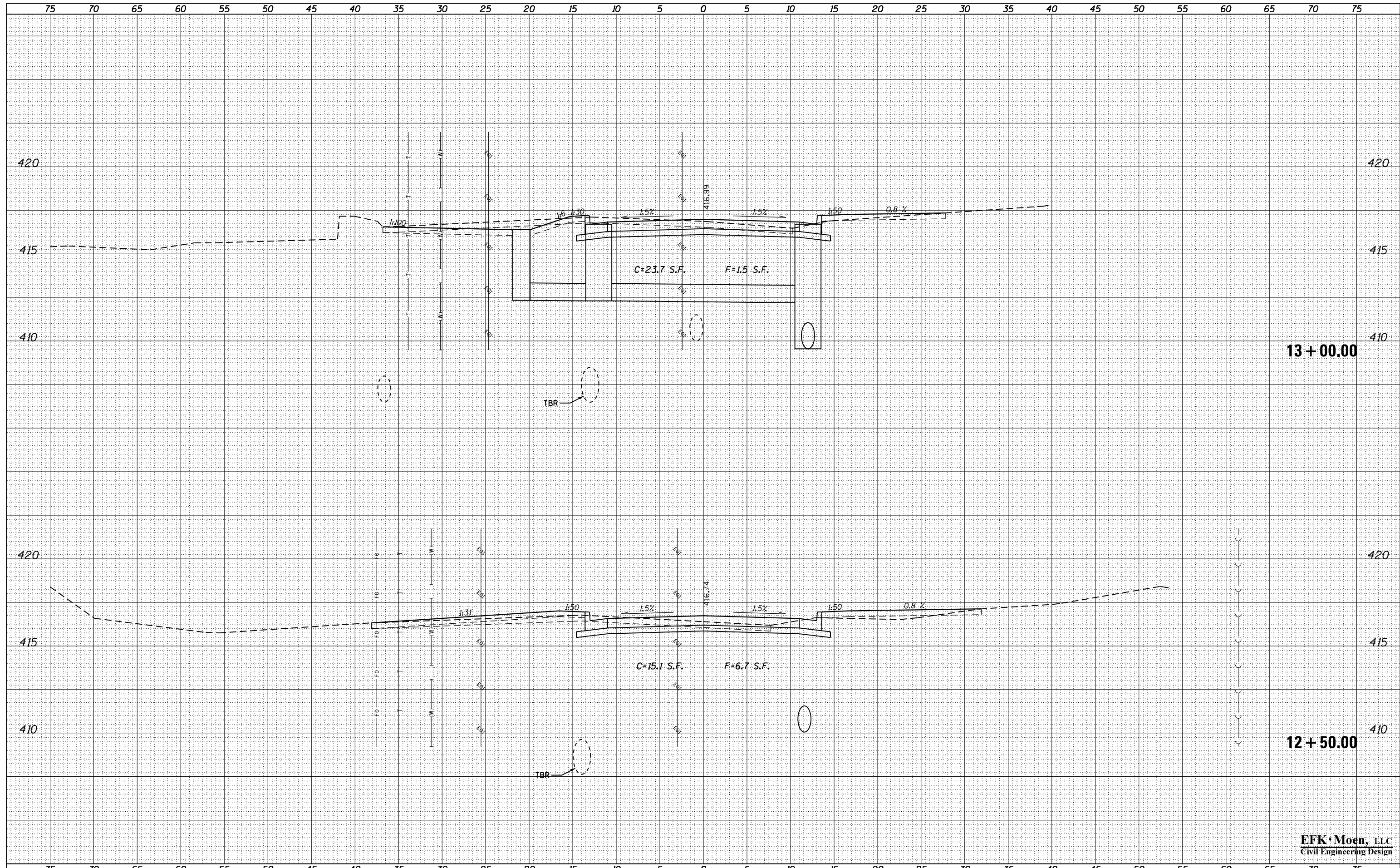
SCALE: 5'H : 2.5'V SHEET 2 OF 6 SHEETS STA. 11+00.00 TO STA. 12+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	299
			CONTRACT NO. 76G39	

EFK Moen, LLC
 Civil Engineering Design

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

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



13 + 00.00

12 + 50.00

EFK Moen, LLC
Civil Engineering Design

FILE NAME = 800-0876G39-sht-xsec-MoAve.dgn
MODELNAME

USER NAME = jd
PLOT SCALE = 10.0000' / in.
PLOT DATE = 3/22/2018

DESIGNED - JRD
DRAWN - SJF
CHECKED - SLD
DATE - 3/22/2018

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
MISSOURI AVENUE**

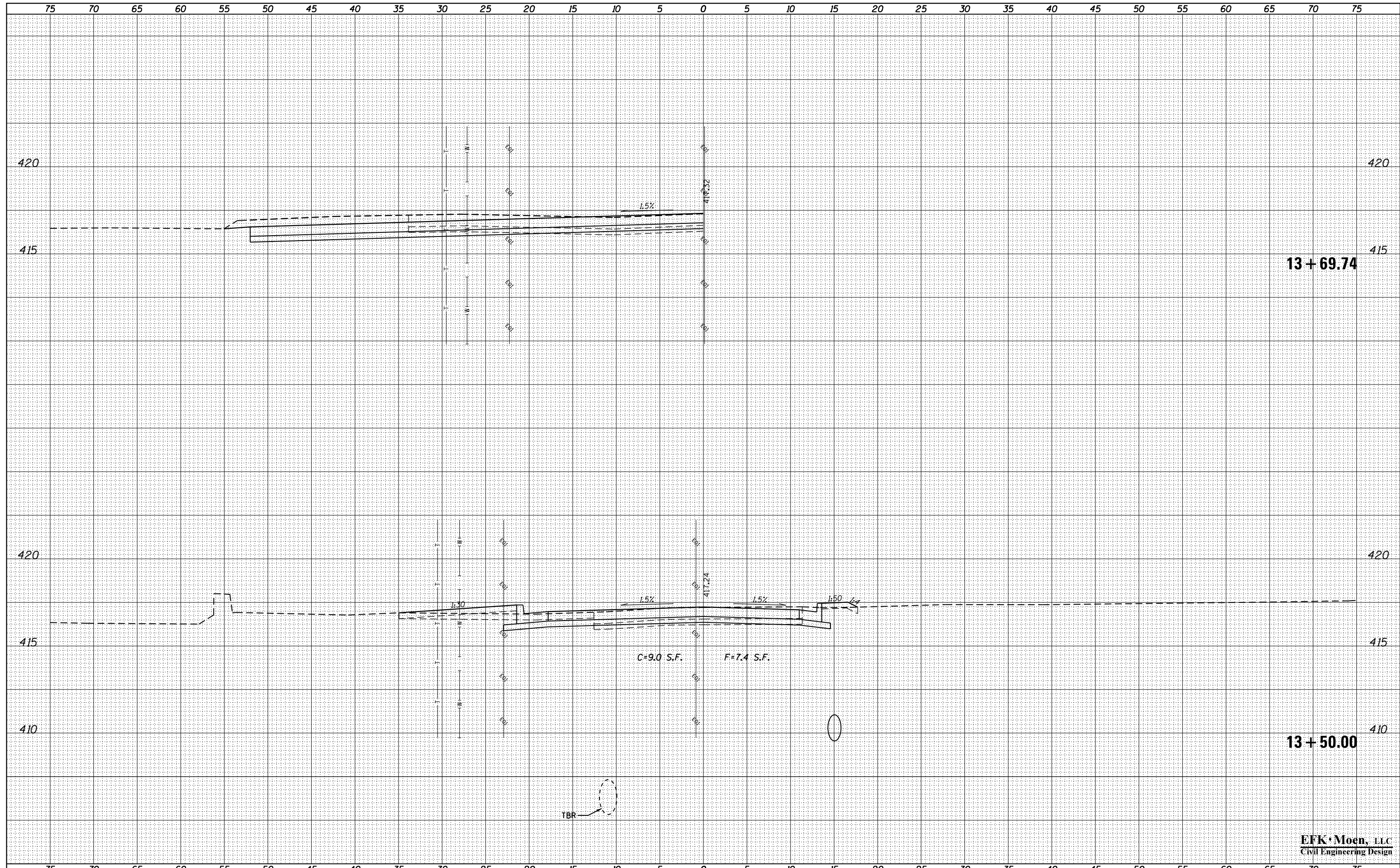
SCALE: 5'H : 2.5'V SHEET 3 OF 6 SHEETS STA. 12+50.00 TO STA. 13+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	300
			CONTRACT NO. 76G39	

ILLINOIS FED. AID PROJECT

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

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



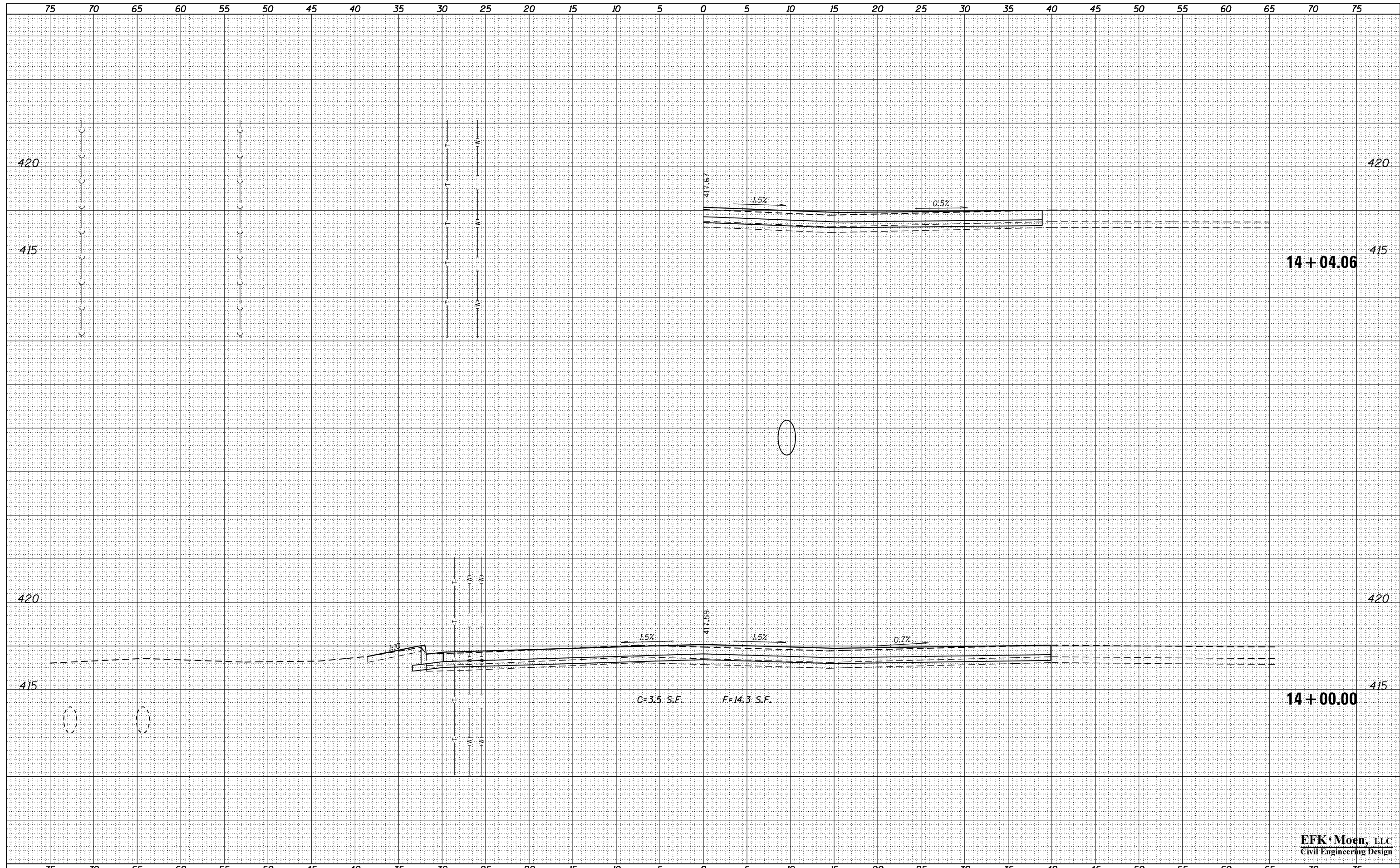
TBR

EFK Moen, LLC
Civil Engineering Design

FILE NAME = 800-0876G39-shr-xsec-MoAve.dgn	USER NAME = jd	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS MISSOURI AVENUE			F.A.P. RTE. 799	SECTION 1BR-1-1	COUNTY ST. CLAIR	TOTAL SHEETS 315	SHEET NO. 301
MODELNAME	PLOT SCALE = 10.0000' / in.	CHECKED - SLD	REVISED -		SCALE: 5'H : 2.5'V	SHEET 4 OF 6 SHEETS	STA. 13+50.00 TO STA. 13+69.74	CONTRACT NO. 76G39				
	PLOT DATE = 3/22/2018	DATE - 3/22/2018	REVISED -		ILLINOIS FED. AID PROJECT							

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

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



FILE NAME = 800-0876G39-shr-xsec-MoAve.dgn

USER NAME = jd
 DESIGNED - JRD
 DRAWN - SJF
 CHECKED - SLD
 DATE - 3/22/2018

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 MISSOURI AVENUE

SCALE: 5'H : 2.5'V SHEET 5 OF 6 SHEETS STA. 14+00.00 TO STA. 14+04.06

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	302
CONTRACT NO. 76G39				

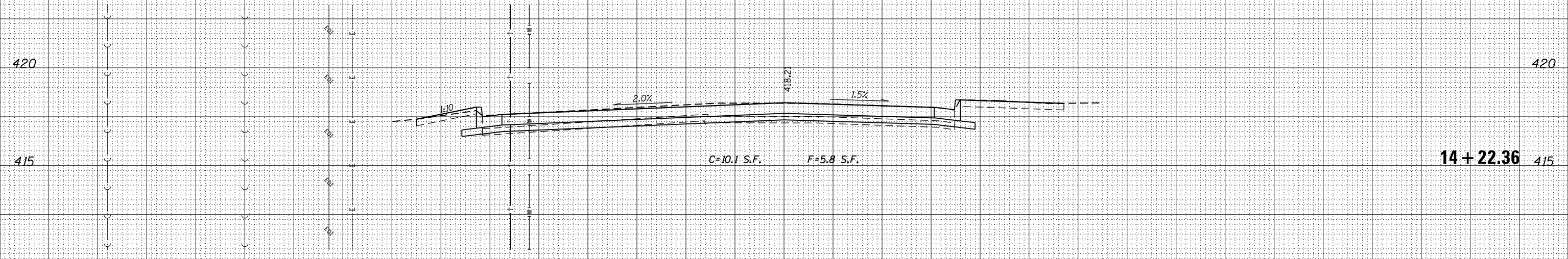
EFK Moen, LLC
 Civil Engineering Design

ILLINOIS FED. AID PROJECT

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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

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



EFK Moen, LLC
Civil Engineering Design

FILE NAME = 800-0876G39-sht-xsec-MoAve.dgn

USER NAME = jd
PLOT SCALE = 10.0000' / in.
PLOT DATE = 3/22/2018

DESIGNED - JRD
DRAWN - SJF
CHECKED - SLD
DATE - 3/22/2018

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
MISSOURI AVENUE

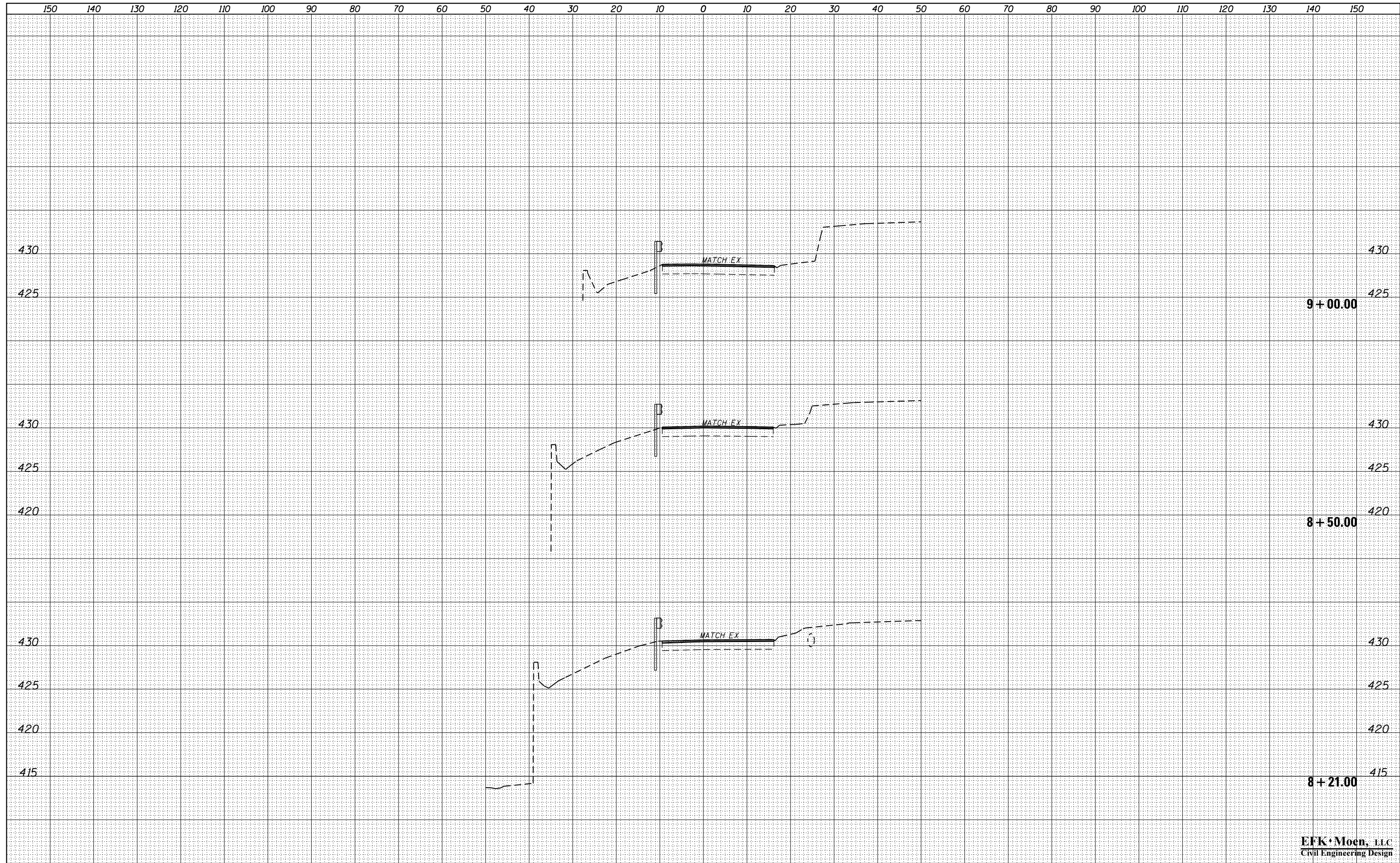
SCALE: 5'H : 2.5'V SHEET 6 OF 6 SHEETS STA. 14+22.36 TO STA. 14+22.36

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	1BR-1-1	ST. CLAIR	315	303
			CONTRACT NO. 76G39	

ILLINOIS FED. AID PROJECT

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

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



FILE NAME = 900-0876G39-shr-xsec-RAMP B.dgn
 MODELNAME

USER NAME = jd	DESIGNED - JRD	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - SJF	REVISED -
PLOT DATE = 3/22/2018	CHECKED - SLD	REVISED -
	DATE - 8/28/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
RAMP B**

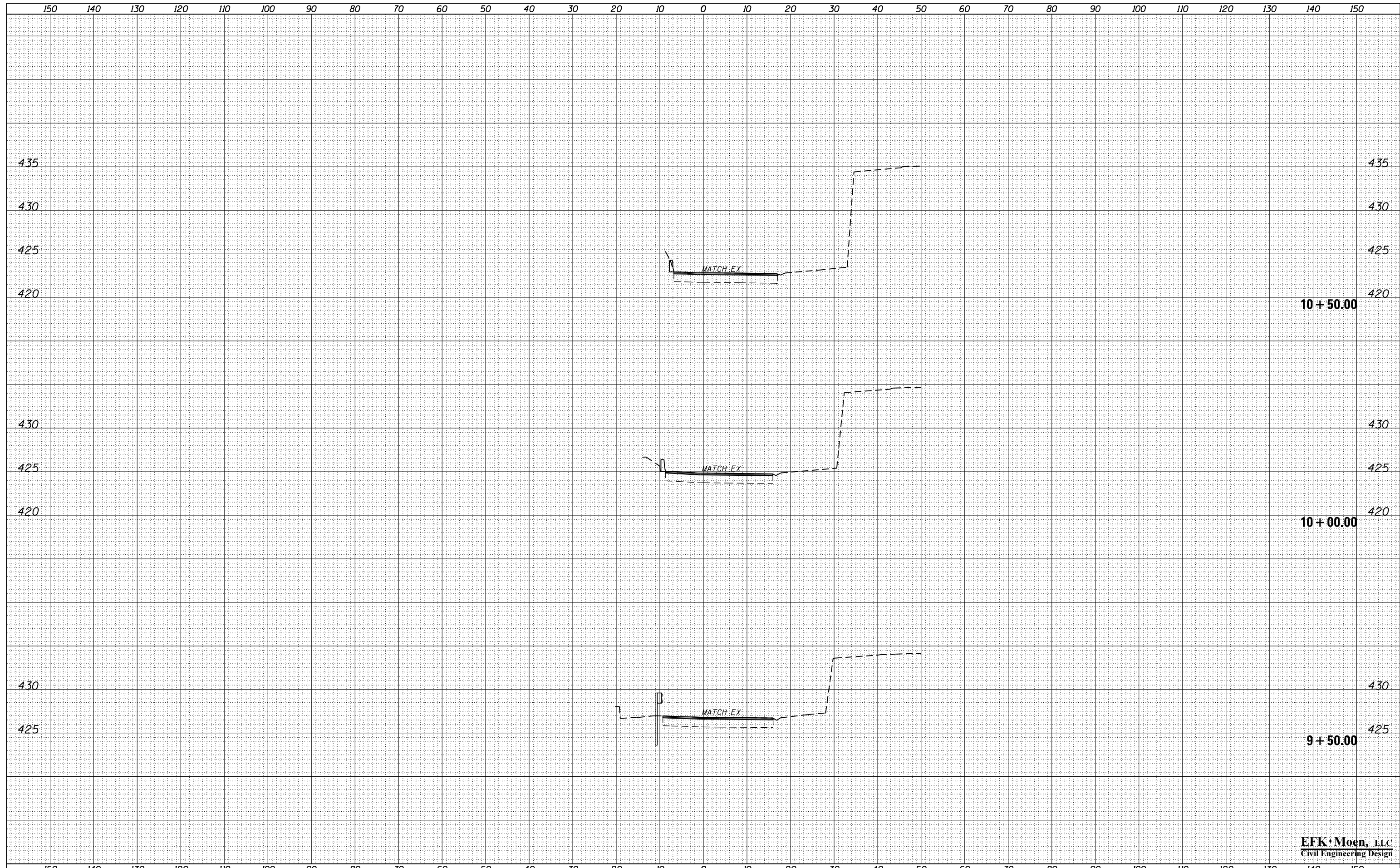
SCALE: 10'H : 5'V SHEET 1 OF 6 SHEETS STA. 8+21.00 TO STA. 9+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	304
				CONTRACT NO. 76G39
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
Civil Engineering Design

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

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



FILE NAME = 900-0876G39-shr-xsec-RAMP B.dgn
 MODELNAME

USER NAME = jd	DESIGNED - JRD	REVISED -
	DRAWN - SJF	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - SLD	REVISED -
PLOT DATE = 3/22/2018	DATE - 8/28/2017	REVISED -

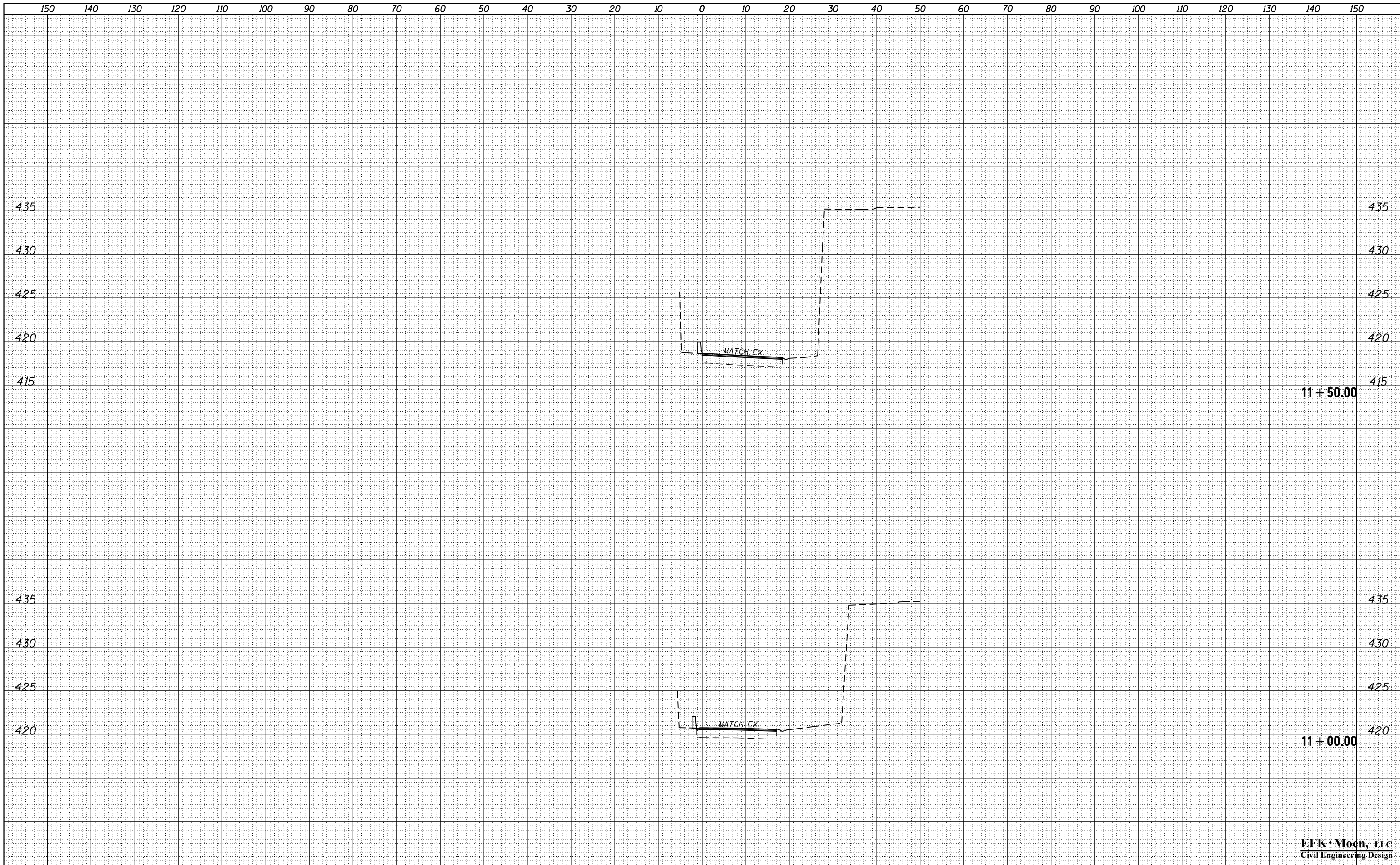
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 RAMP B

SCALE: 10'H : 5'V SHEET 2 OF 6 SHEETS STA. 9+50.00 TO STA. 10+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	305
				CONTRACT NO. 76G39
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
 Civil Engineering Design



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

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

FILE NAME = 900-0876G39-shr-xsec-RAMP B.dgn
 MODELNAME

USER NAME = jd	DESIGNED - JRD	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - SJF	REVISED -
PLOT DATE = 3/22/2018	CHECKED - SLD	REVISED -
	DATE - 8/28/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

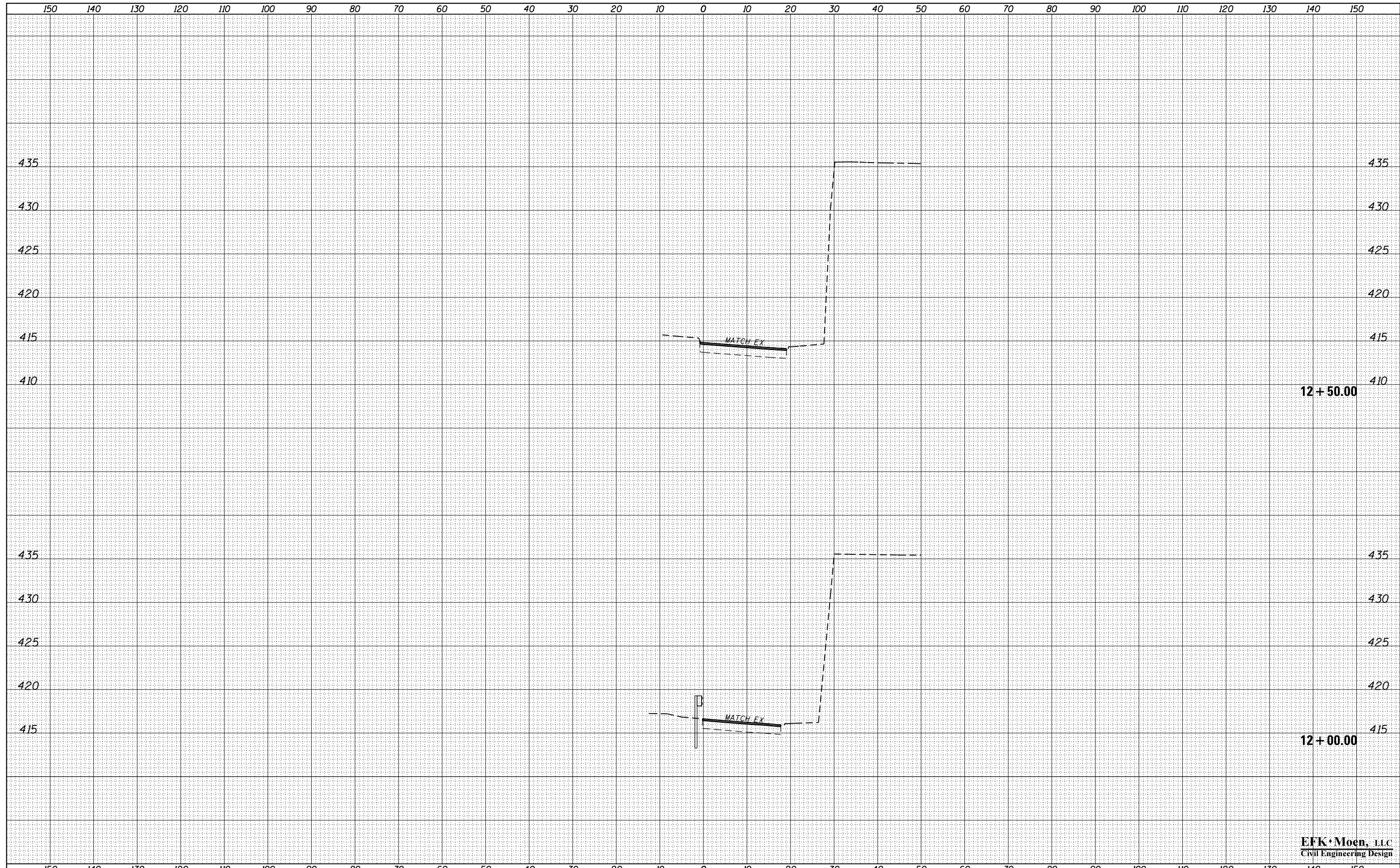
**CROSS SECTIONS
 RAMP B**
 SCALE: 10'H : 5'V SHEET 3 OF 6 SHEETS STA. 11+00.00 TO STA. 11+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	306
CONTRACT NO. 76G39				
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
 Civil Engineering Design

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

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



FILE NAME = 900-0876G39-shr-xsec-RAMP B.dgn
 MODELNAME

USER NAME = jd	DESIGNED - JRD	REVISED -
PLLOT SCALE = 20.0000' / in.	DRAWN - SJF	REVISED -
PLLOT DATE = 3/22/2018	CHECKED - SLD	REVISED -
	DATE - 8/28/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

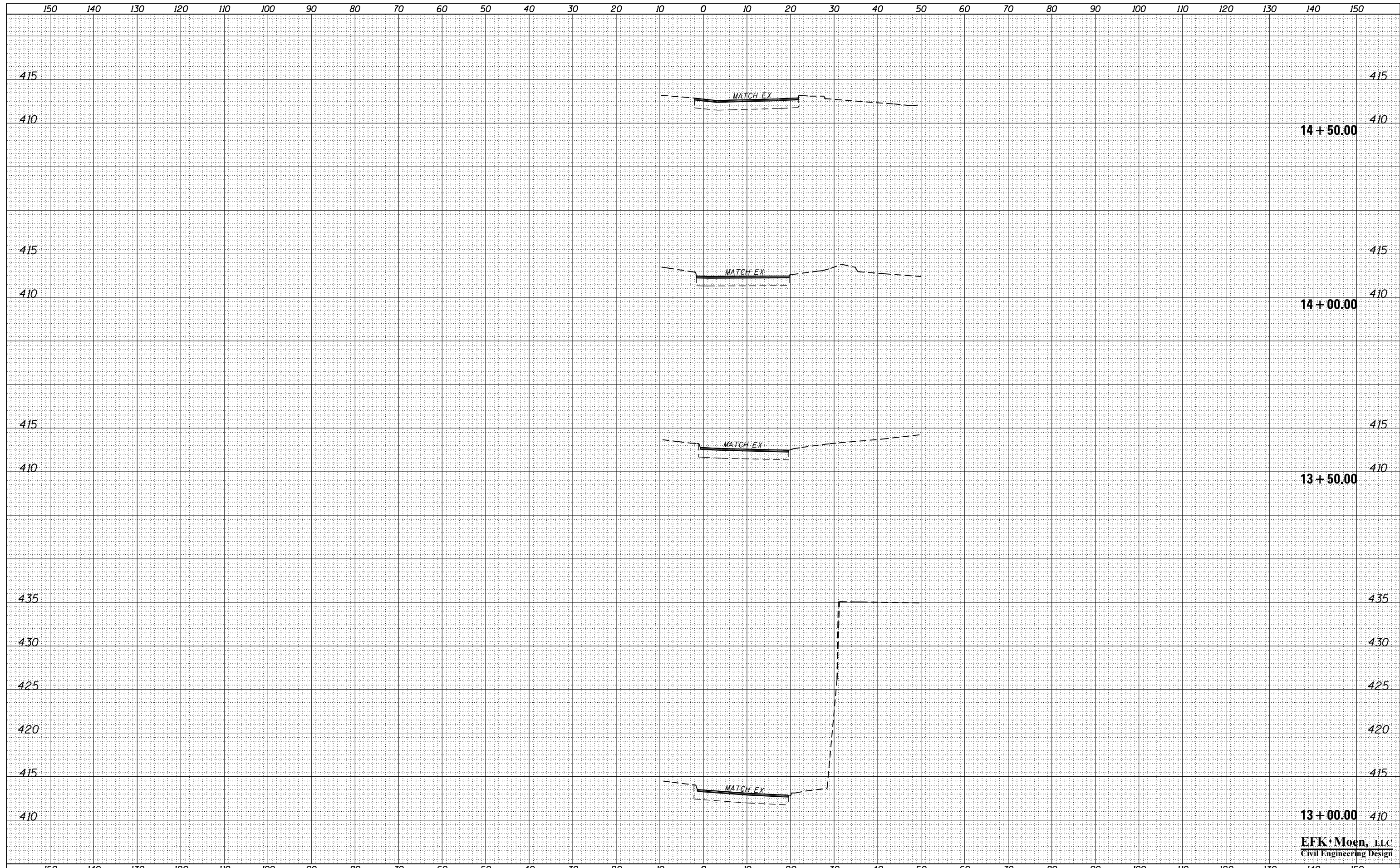
**CROSS SECTIONS
 RAMP B**
 SCALE: 10'H : 5'V SHEET 4 OF 6 SHEETS STA. 12+00.00 TO STA. 12+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	307
				CONTRACT NO. 76G39
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
 Civil Engineering Design

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

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



FILE NAME = 900-0876G39-shr-xsec-RAMP B.dgn
 MODELNAME

USER NAME = jd	DESIGNED - JRD	REVISIED -
PLOT SCALE = 20.0000' / in.	DRAWN - SJF	REVISIED -
PLOT DATE = 3/22/2018	CHECKED - SLD	REVISIED -
	DATE - 8/28/2017	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

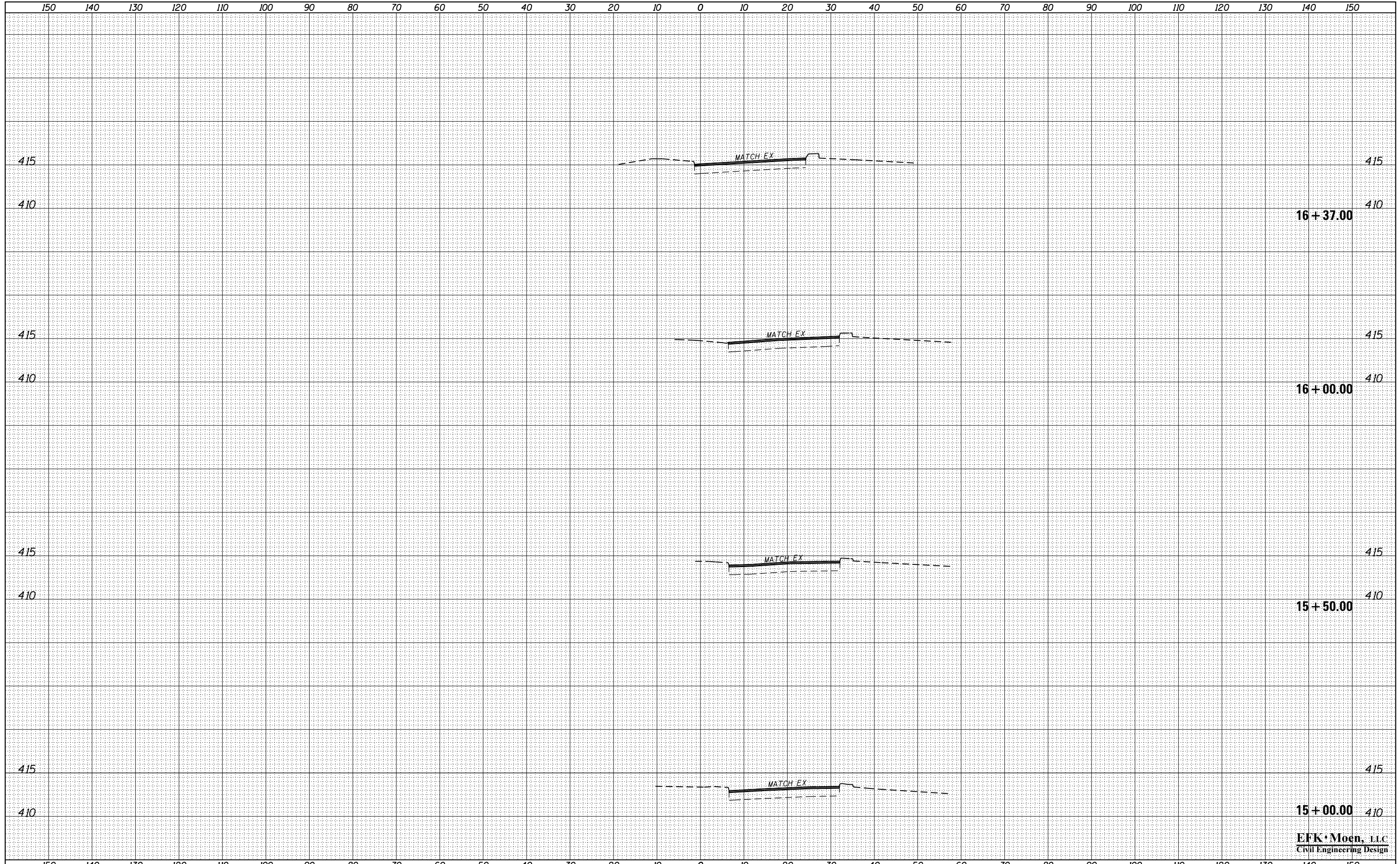
**CROSS SECTIONS
 RAMP B**
 SCALE: 10'H : 5'V SHEET 5 OF 6 SHEETS STA. 13+00.00 TO STA. 14+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	308
			CONTRACT NO. 76G39	
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
 Civil Engineering Design

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	



FILE NAME = 900-0876G39-sht-xsec-RAMP B.dgn
 MODELNAME

USER NAME = jd	DESIGNED - JRD	REVISIED -
PLOT SCALE = 20.0000' / in.	DRAWN - SJF	REVISIED -
PLOT DATE = 3/22/2018	CHECKED - SLD	REVISIED -
	DATE - 8/28/2017	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 RAMP B**

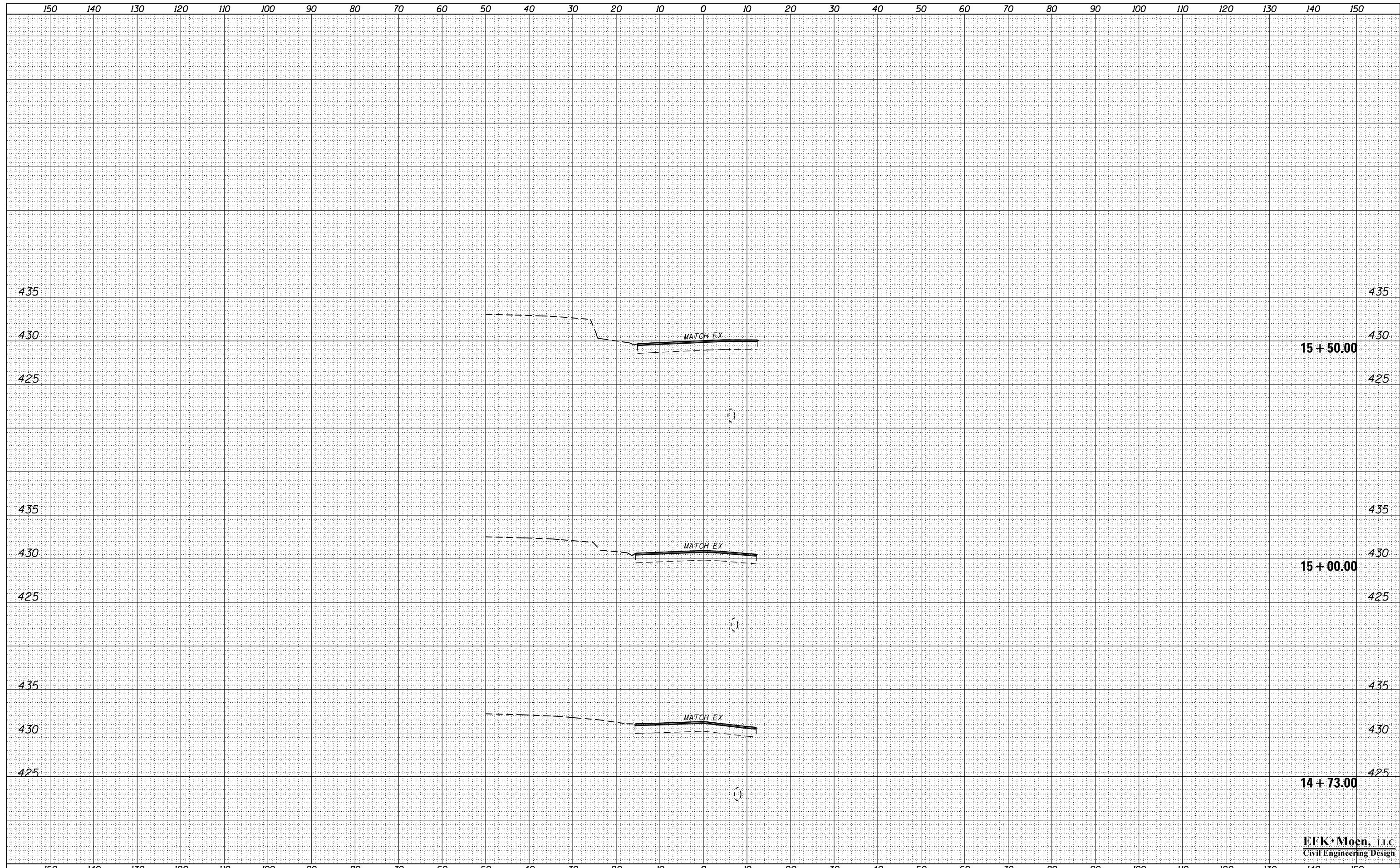
SCALE: 10'H : 5'V SHEET 6 OF 6 SHEETS STA. 15+00.00 TO STA. 16+37.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	309
				CONTRACT NO. 76G39
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
 Civil Engineering Design

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

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



FILE NAME = 1000-DB76G39-sht-xsec-RAMP C.dgn
 MODELNAME

USER NAME = jd	DESIGNED - JRD	REVISED -
	DRAWN - SJF	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - SLD	REVISED -
PLOT DATE = 3/22/2018	DATE - 8/28/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
RAMP C**

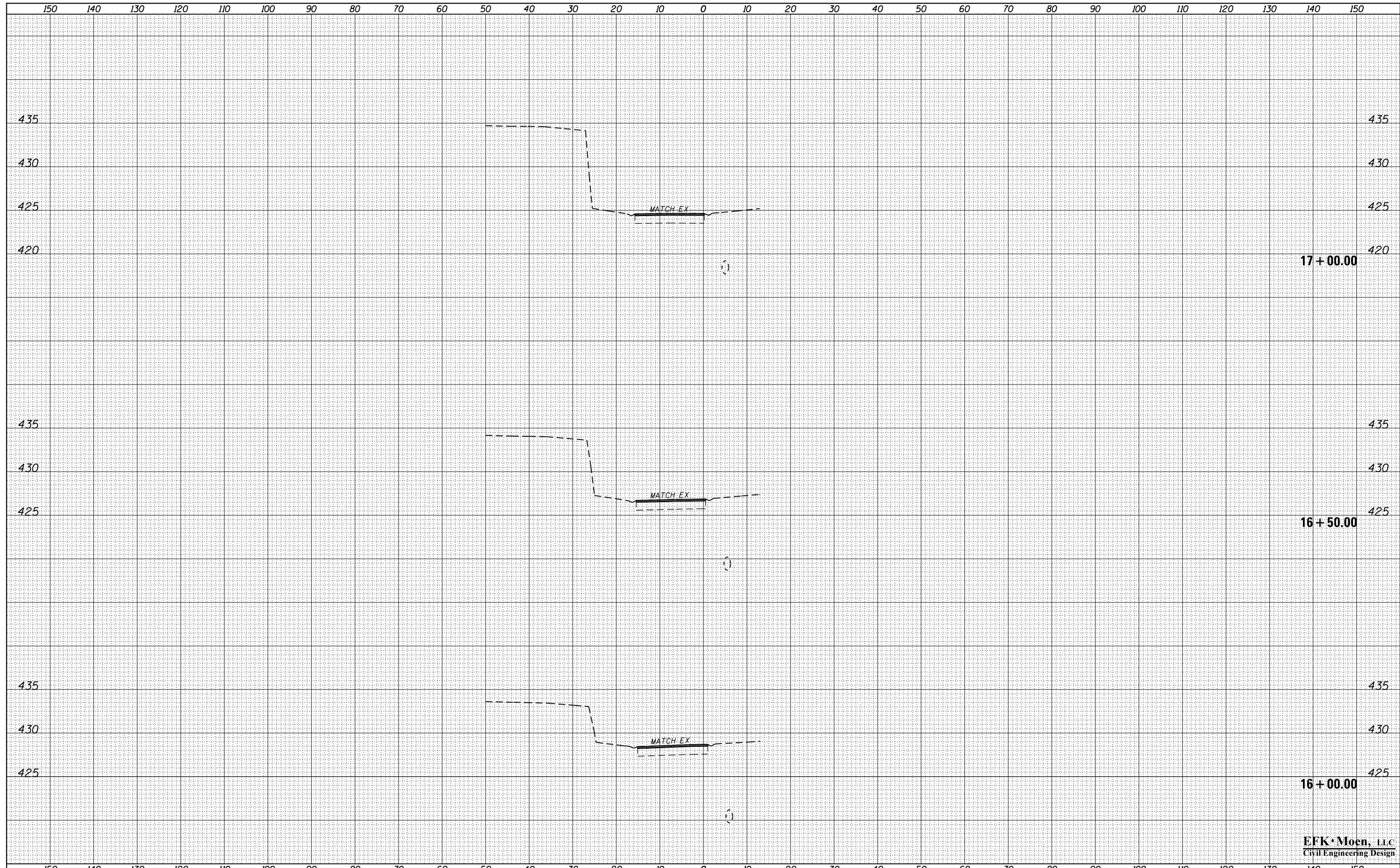
SCALE: 10'H : 5'V SHEET 1 OF 6 SHEETS STA. 14+73.00 TO STA. 15+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	310
				CONTRACT NO. 76G39
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
Civil Engineering Design

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

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



FILE NAME = 1000-DB76G39-sht-xsec-RAMP C.dgn
 MODELNAME

USER NAME = jd	DESIGNED - JRD	REVISIED -
	DRAWN - SJF	REVISIED -
PLOT SCALE = 20.0000' / in.	CHECKED - SLD	REVISIED -
PLOT DATE = 3/22/2018	DATE - 8/28/2017	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

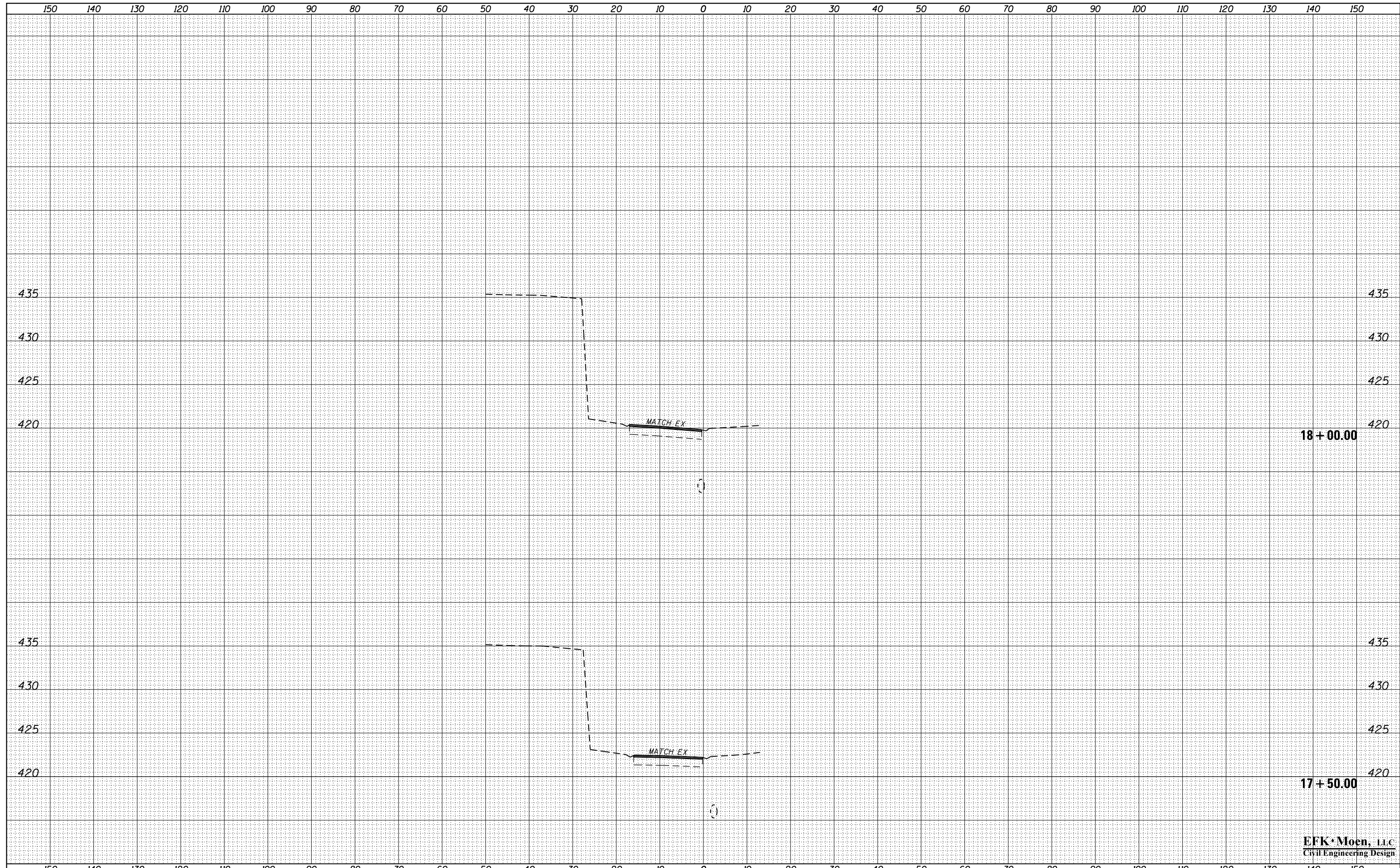
**CROSS SECTIONS
 RAMP C**
 SCALE: 10'H : 5'V SHEET 2 OF 6 SHEETS STA. 16+00.00 TO STA. 17+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	311
			CONTRACT NO. 76G39	
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
 Civil Engineering Design

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

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



FILE NAME = 1000-DB76G39-sht-xsec-RAMP C.dgn
 MODELNAME

USER NAME = jd	DESIGNED - JRD	REVISED -
	DRAWN - SJF	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - SLD	REVISED -
PLOT DATE = 3/22/2018	DATE - 8/28/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
RAMP C

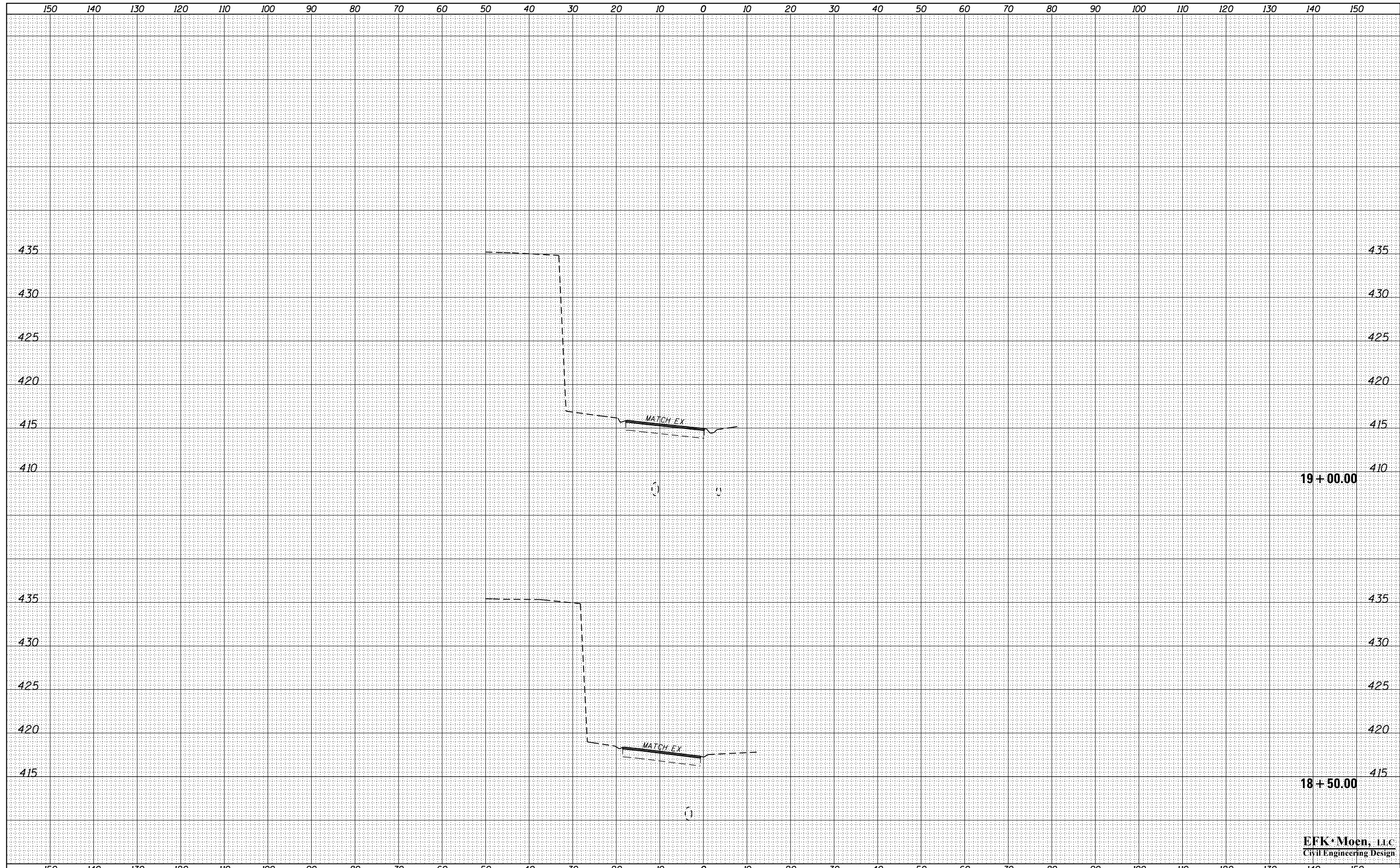
SCALE: 10'H : 5'V SHEET 3 OF 6 SHEETS STA. 17+50.00 TO STA. 18+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	312
				CONTRACT NO. 76G39
ILLINOIS FED. AID PROJECT				

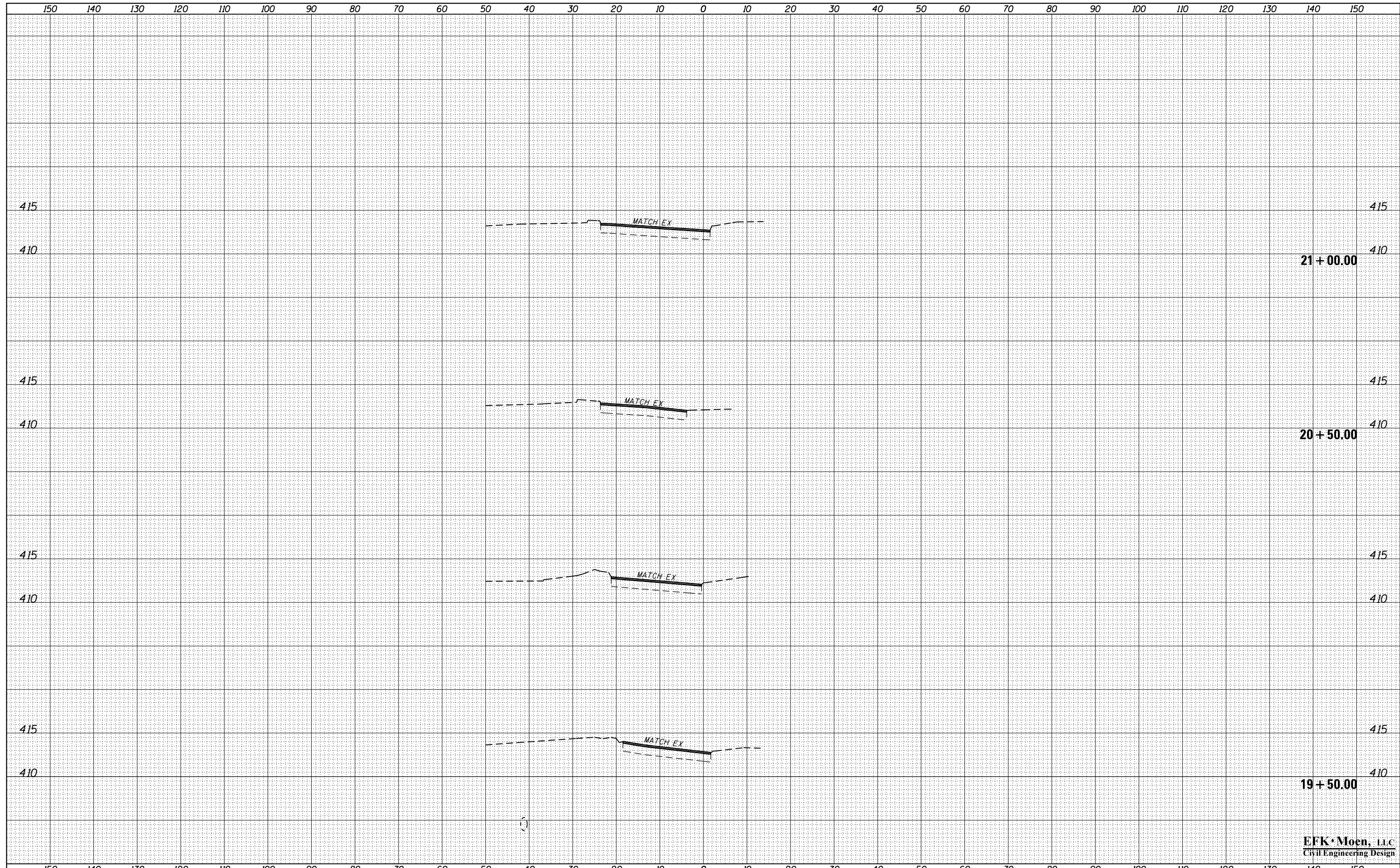
EFK Moen, LLC
Civil Engineering Design

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

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

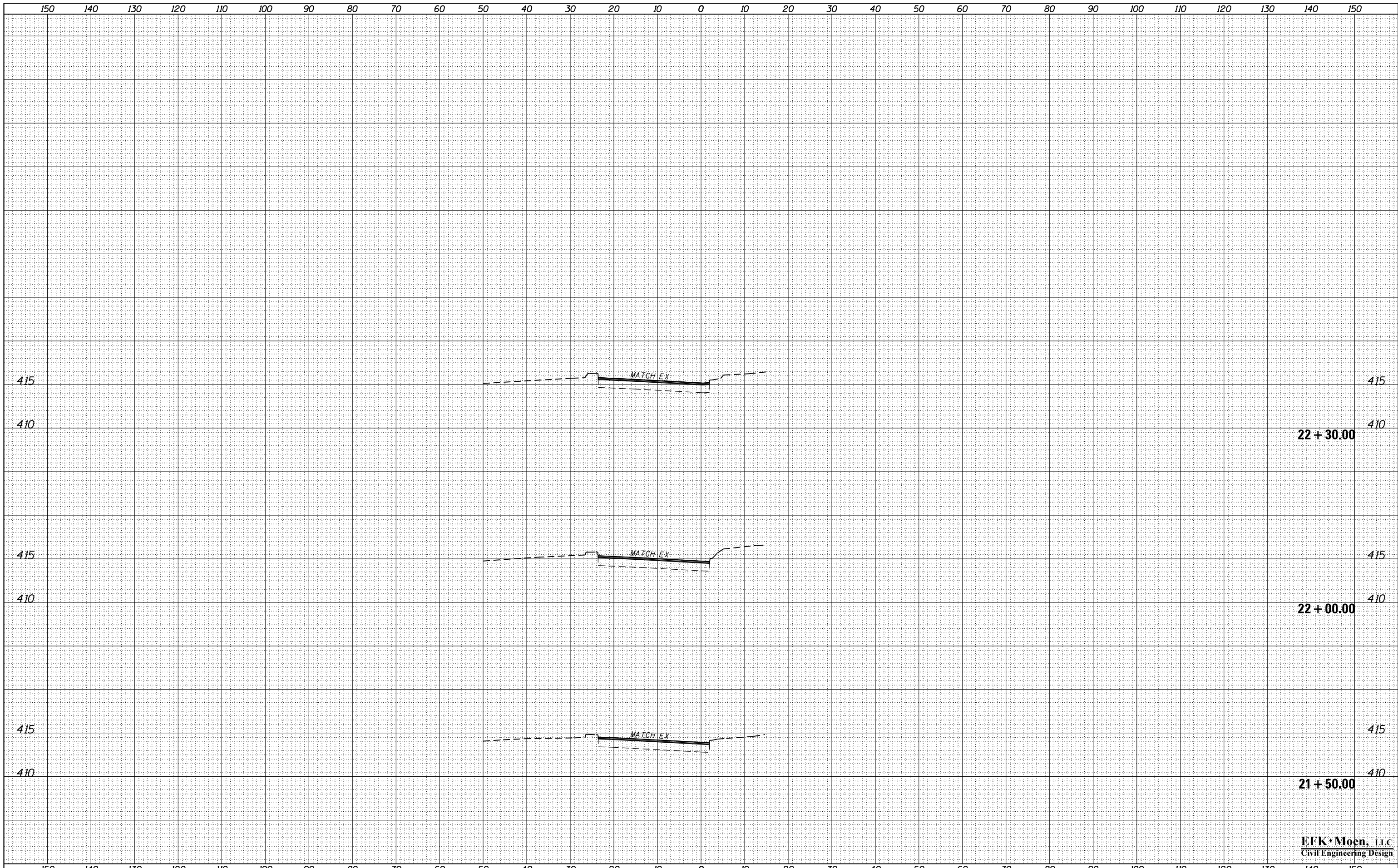


FILE NAME - 1000-DB76G39-sht-xsec-RAMP C.dgn	USER NAME - jd	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS RAMP C		F.A.P. RTE. - 799	SECTION - IBR-1-1	COUNTY - ST. CLAIR	TOTAL SHEETS - 315	SHEET NO. - 313	
MODELNAME	PLOT SCALE - 20.0000' / in.	CHECKED - SLD	REVISED -		SCALE: 10'H : 5'V	SHEET 4 OF 6 SHEETS	STA. 18+50.00	TO STA. 19+00.00	CONTRACT NO. 76G39 ILLINOIS FED. AID PROJECT			
	PLOT DATE - 3/22/2018	DATE - 8/28/2017	REVISED -									
EFK Moen, LLC Civil Engineering Design												



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

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



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

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

FILE NAME = 1000-DB76G39-sht-xsec-RAMP C.dgn
 MODELNAME

USER NAME = jd	DESIGNED - JRD	REVISIED -
	DRAWN - SJF	REVISIED -
PLOT SCALE = 20.0000' / in.	CHECKED - SLD	REVISIED -
PLOT DATE = 3/22/2018	DATE - 8/28/2017	REVISIED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 RAMP C

SCALE: 10'H : 5'V SHEET 6 OF 6 SHEETS STA. 21+50.00 TO STA. 22+30.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799	IBR-1-1	ST. CLAIR	315	315
			CONTRACT NO. 76G39	
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
 Civil Engineering Design