

004

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F&P SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	1
ILLINOIS CONTRACT NO. 62H71				

* 54 + 3 = 57 TOTAL SHEETS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT LOCATED IN THE VILLAGE OF LEMONT

TRAFFIC DATA

ADT 31,000 (2017)

POSTED SPEED LIMIT

45 MPH

PROPOSED
HIGHWAY PLANS

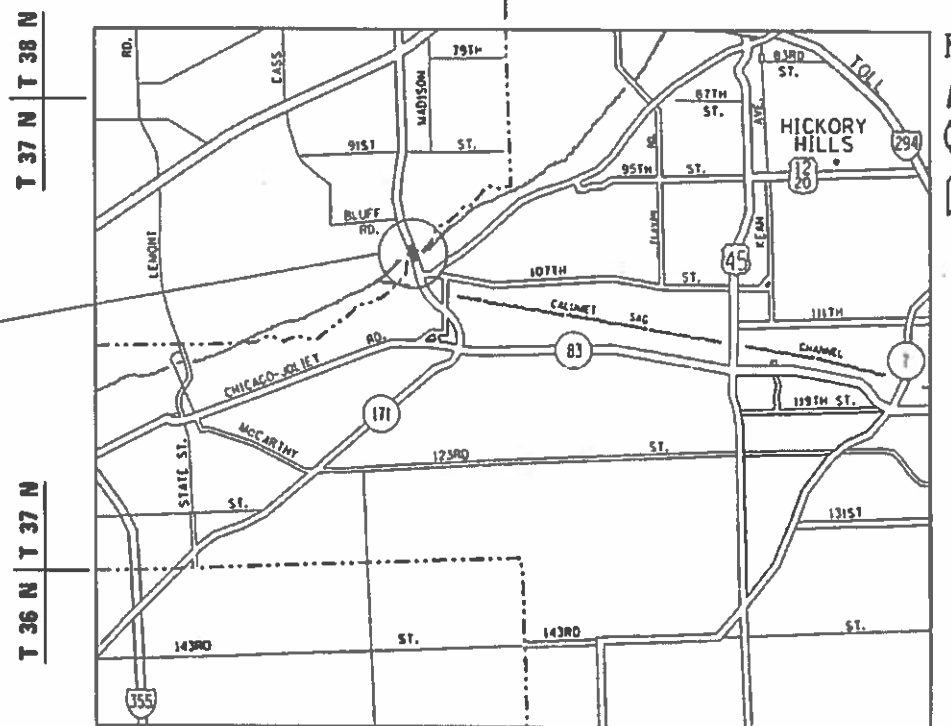
FAP ROUTE 344: IL 83 (KINGERY HIGHWAY)
AT SANITARY AND SHIP CANAL (INCL I&M CANAL)
SECTION 2018-139-BR
PROJECT NHPP-ZTC3(414)
BRIDGE REPAIR
COOK COUNTY

D-91-104-19



C-91-308-19

R 11 E R 12 E



IMPROVEMENT LOCATION
SN 016-0425



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER: ALAIN MIDY (847) 221-3056
PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

CONTRACT NO. 62H71

LEMONT TOWNSHIP

GROSS LENGTH = 1130.229 FT. = 0.214 MILE

NET LENGTH = 1130.229 FT. = 0.214 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED: January 27, 2020

Alain Midy REGIONAL ENGINEER

March 20, 2020

Germain, Jun ENGINEER OF DESIGN AND ENVIRONMENT

March 20, 2020

Germain, Jun DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		80% FED 20% STATE 0013						CODE NO	ITEM		UNIT	80% FED 20% STATE 0013				
50102400	CONCRETE REMOVAL	CU YD	39.8	39.8						70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2				
50300255	CONCRETE SUPERSTRUCTURE	CU YD	38.4	38.4														
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	7750	7750					*	78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	155	155				
50800515	BAR SPLICERS	EACH	106	106					*	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	11747	11747				
52000110	PERFORMED JOINT STRIP SEAL	FOOT	339	339					*	78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	739	739				
52000600	FABRIC REINFORCED ELASTOMERIC TROUGH	FOOT	59	59														
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6					*	78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	359	359				
67100100	MOBILIZATION	L SUM	1	1					*	78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	168	168				
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	90	90														
70300900	PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS	SO FT	117	117					*	78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	108	108				
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	13545	13545					*	78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	55	55				
70300906	PAVEMENT MARKING TAPE, TYPE IV 6"	FOOT	508	508						78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	86	86				
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1387.5	1387.5						X0322559	BOLT REPLACEMENT	EACH	1400	1400				
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1387.5	1387.5						X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	4910	4910				
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2														

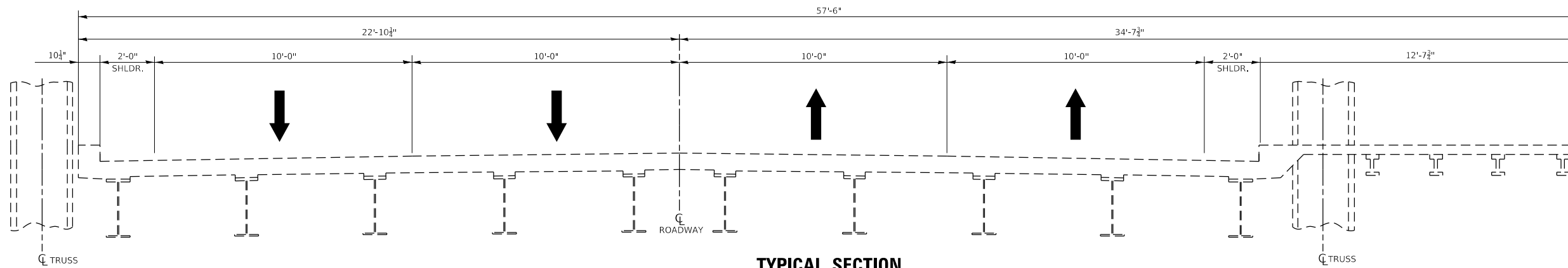
FILE NAME =	USER NAME = rdhjp	DESIGNED -	REVISED -
pw:\planroom\dtd\111\rdh\gov\PI\DOT\Documents\DOT\Offices\District\Projects\DI0419\CAD\Draw\Design\DI0419-SH-50		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

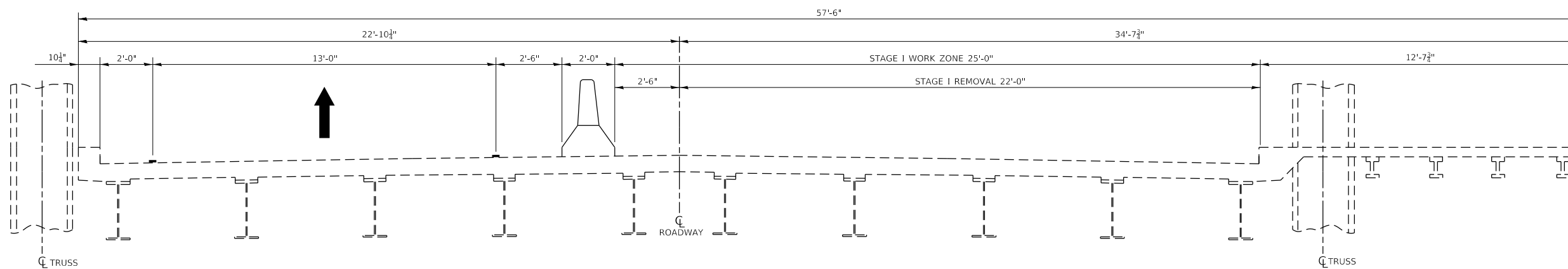
**IL 83 AT S & S AND I & M CANALS
SUMMARY OF QUANTITIES**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	3
CONTRACT NO. 62H71				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

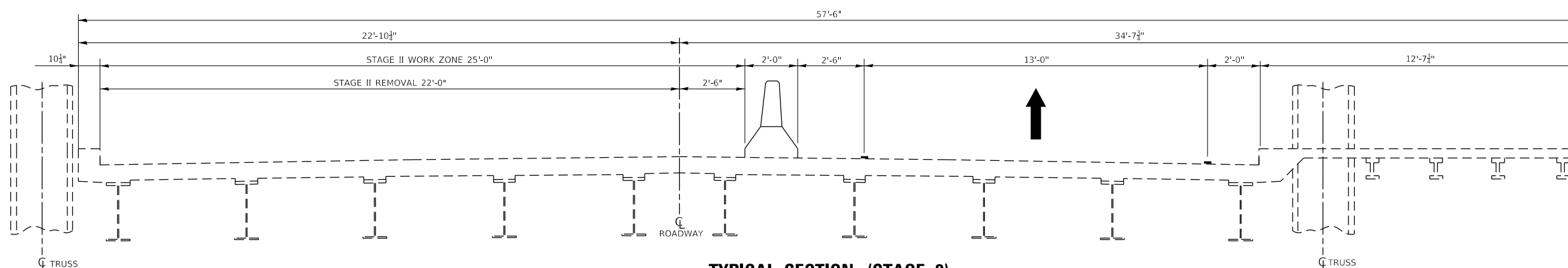
*= SPECIALTY ITEM



TYPICAL SECTION
(LOOKING SOUTH)



TYPICAL SECTION (STAGE 1)
(LOOKING SOUTH)



TYPICAL SECTION (STAGE 2)
(LOOKING SOUTH)

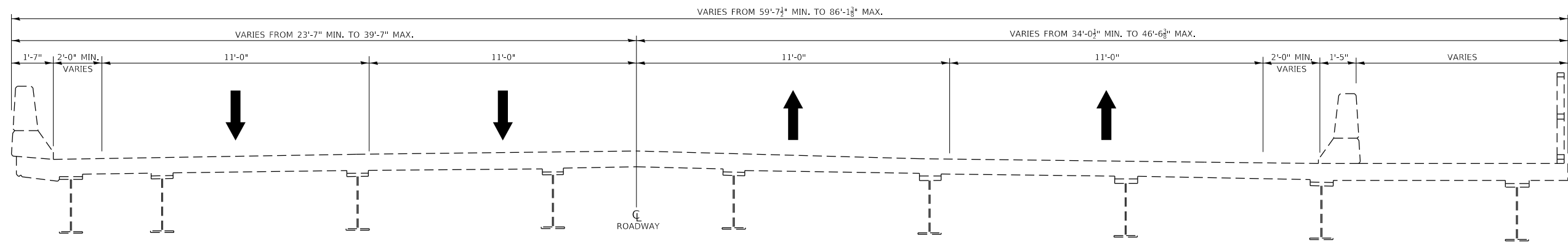
MODEL: Default
 FILE: \\nrcs-pub\pub\rooms\dat\illinois\pwr\WIDOT\Documents\DOT_Offices\Director_1\Projects\110419\CADD\Drawings\110419_sht-tyr-cal.dgn

USER NAME = rothjp	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/9/2020	DATE -	REVISED -

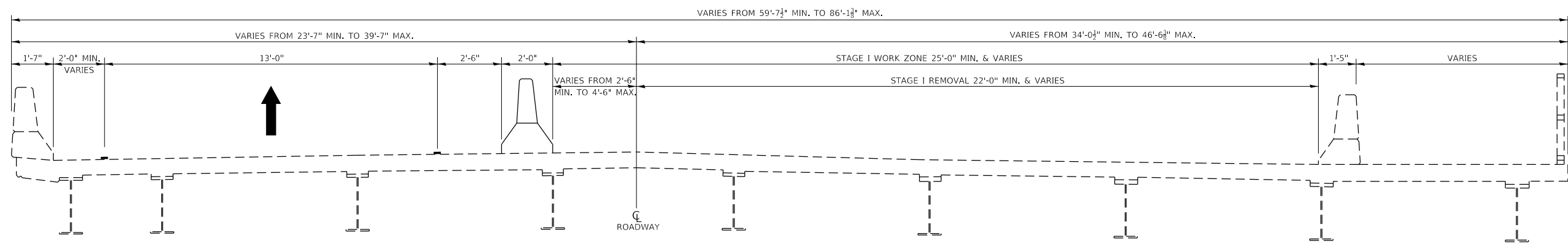
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL CROSS SECTIONS	
IL 83 AT S & S AND I & M CANALS	
SCALE:	SHEET 1 OF 2 SHEETS STA. TO STA.

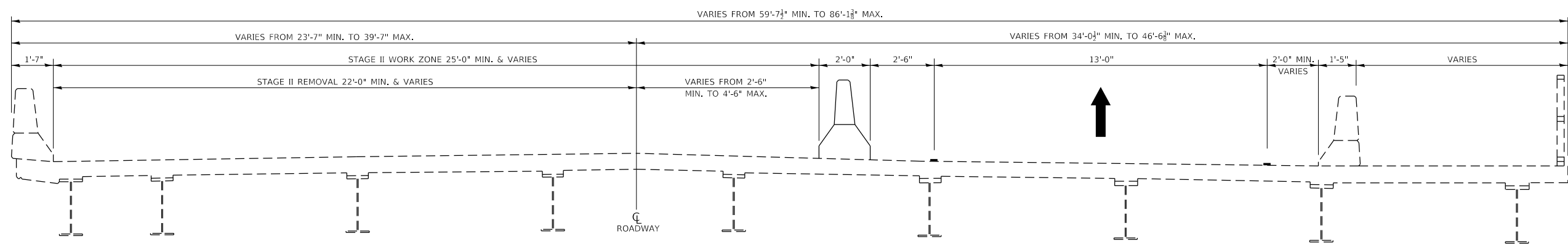
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	5
CONTRACT NO. 62H71				
ILLINOIS FED. AID PROJECT				



TYPICAL SECTION
(LOOKING SOUTH)



TYPICAL SECTION (STAGE 1)
(LOOKING SOUTH)



TYPICAL SECTION (STAGE 2)
(LOOKING SOUTH)

MODEL: Default
FILE: h:\mhc\p\suplanroom.d\illinois.gov\PWIDOT\Documents\IBDOT_Offices\IBDOT - 1\Projects\110419\CADD\Drawings\110419-sh-ty-cs-cal.dgn

USER NAME = rothjp	DESIGNED -	REVISED -
DRAWN -	REVISOR -	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISOR -
PLOT DATE = 3/9/2020	DATE -	REVISOR -









STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

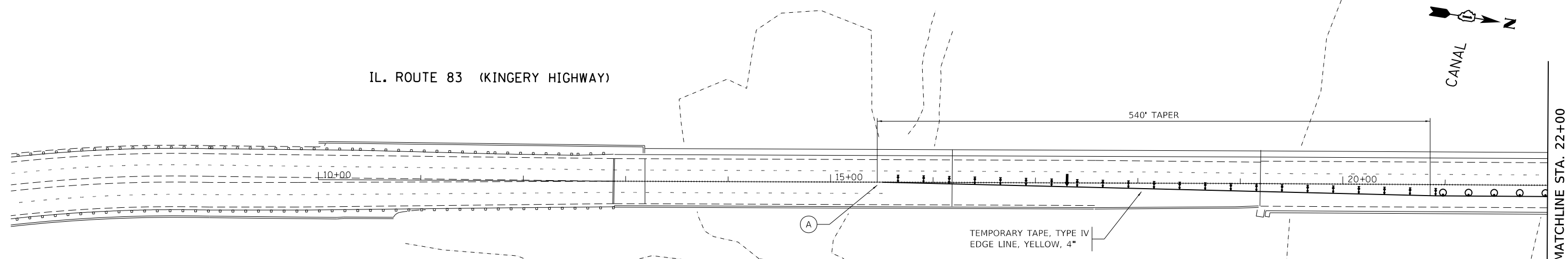
TRAFFIC CONTROL CROSS SECTIONS
IL 83 AT S & S AND I & M CANALS

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

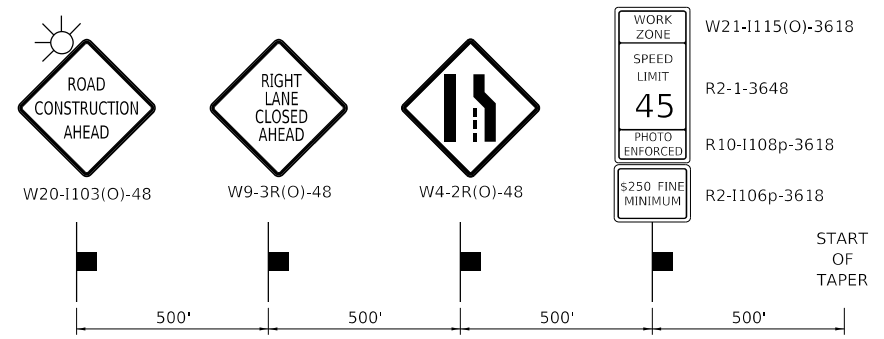
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	6
CONTRACT NO. 62H71				
ILLINOIS FED. AID PROJECT				

LEGEND

-  WORK ZONE
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3
-  DRUMS @ 50' C-C IN TANGENTS WITHOUT LIGHT, DRUMS @ 25' C-C IN TAPERS WITH LIGHT
-  TYPE III BARRICADE
-  BARRIER WALL REFLECTORS, TYPE C
-  ARROWBOARD
-  DIRECTION INDICATOR BARRICADES



DETAIL A: ADVANCE WARNING SIGNS



MODEL: Default
 FILE: \\nlsdot\pub\pubroom\dat\illinois\pwr\WIDOT\Documents\DOT_Offices\District_1\Projects\110419\CADD\Design\110419-sh-ct-tp\fig.dgn

USER NAME = rothjp	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/9/2020	DATE -	REVISED -









STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

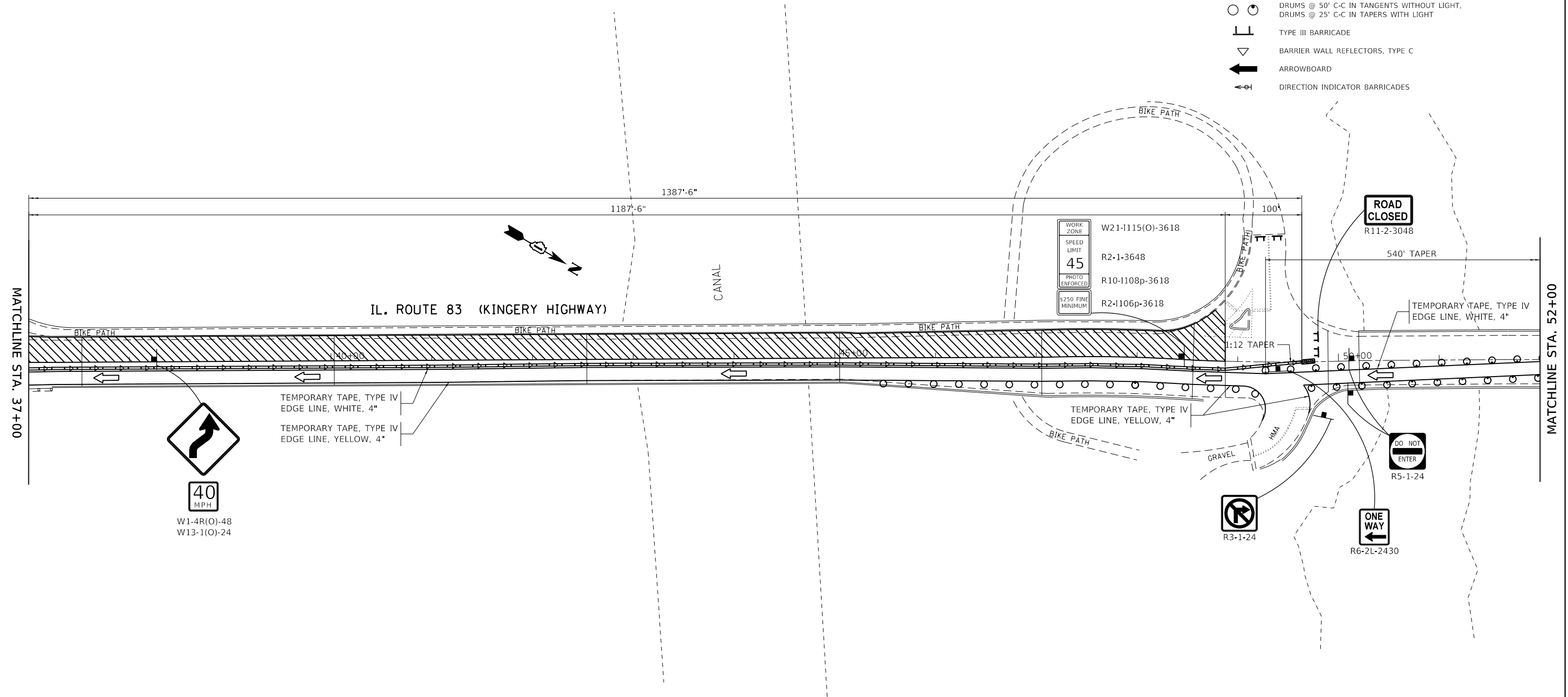
TRAFFIC CONTROL AND PROTECTION - STAGE 1 IL 83 AT S & S AND I & M CANALS	
SCALE:	SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	7
CONTRACT NO. 62H71				
ILLINOIS FED. AID PROJECT				

MATCHLINE STA. 22+00

LEGEND

-  WORK ZONE
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3
-  DRUMS @ 50' C-C IN TANGENTS WITHOUT LIGHT, DRUMS @ 25' C-C IN TAPERS WITH LIGHT
-  TYPE III BARRICADE
-  BARRIER WALL REFLECTORS, TYPE C
-  ARROWBOARD
-  DIRECTION INDICATOR BARRICADES



MODEL: Default
 FILE: h:\m\c\proj\pub\room\dat\illinois.gov\PWIDOT\Documents\DOT_Offices\Director_1\Projects\110419\CaddData\Design\110419_sht-ctg\trns.dgn

USER NAME = rothjp	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/9/2020	DATE -	REVISED -









**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

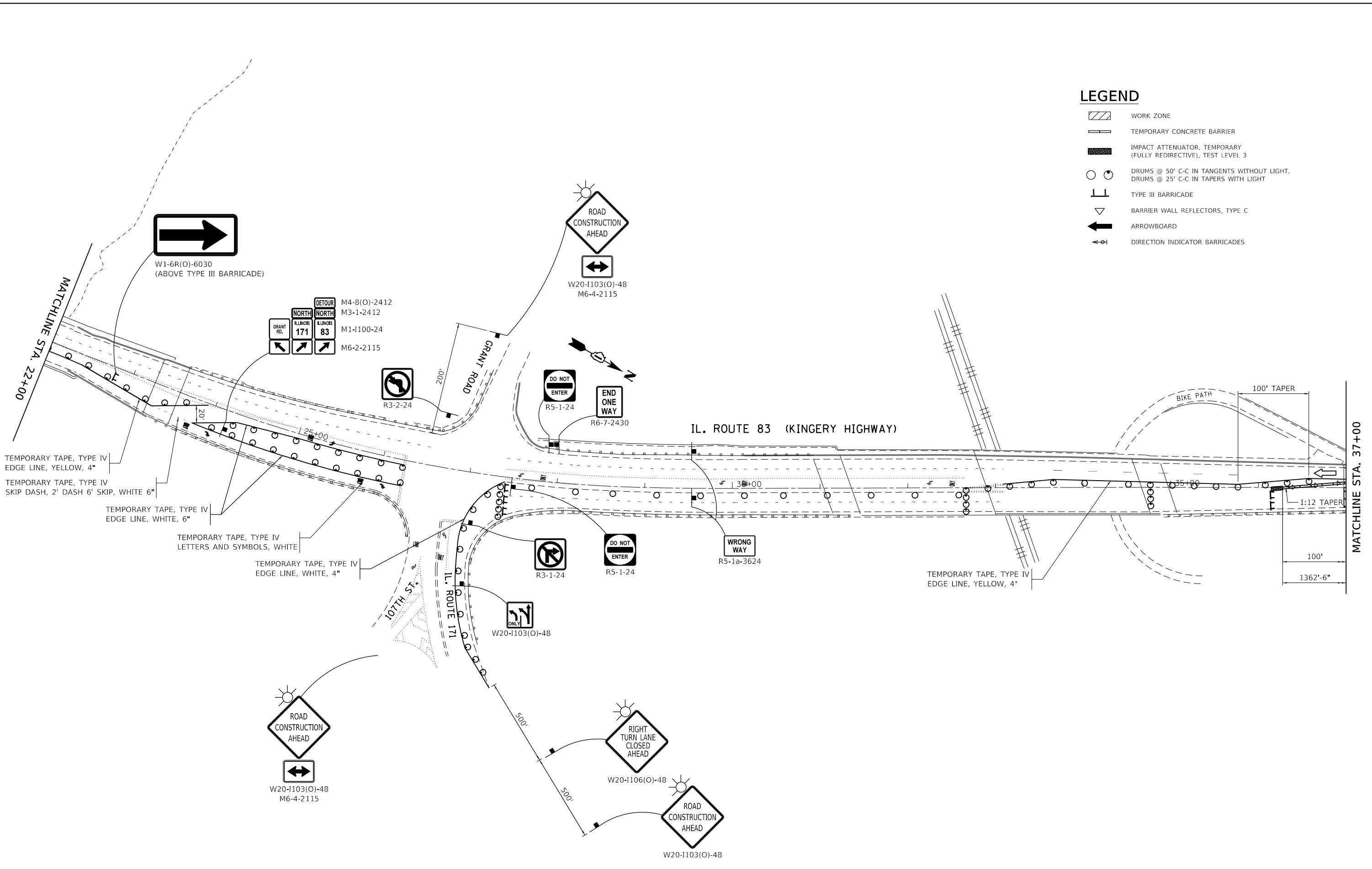
**TRAFFIC CONTROL AND PROTECTION - STAGE 1
IL 83 AT S & S AND I & M CANALS**

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H71	

LEGEND

-  WORK ZONE
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3
-  DRUMS @ 50' C-C IN TANGENTS WITHOUT LIGHT, DRUMS @ 25' C-C IN TAPERS WITH LIGHT
-  TYPE III BARRICADE
-  BARRIER WALL REFLECTORS, TYPE C
-  ARROWBOARD
-  DIRECTION INDICATOR BARRICADES



MODEL: Default
 FILE: \\blm1c1.pw.us.ibm.com\data\illinois.gov\pww\DOT\Documents\DOT_Offices\District_1\Projects\110419\CADD\Drawings\110419_sht-ctg\figs.dgn









USER NAME = rothjp	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/9/2020	CHECKED -	REVISED -
	DATE -	REVISED -

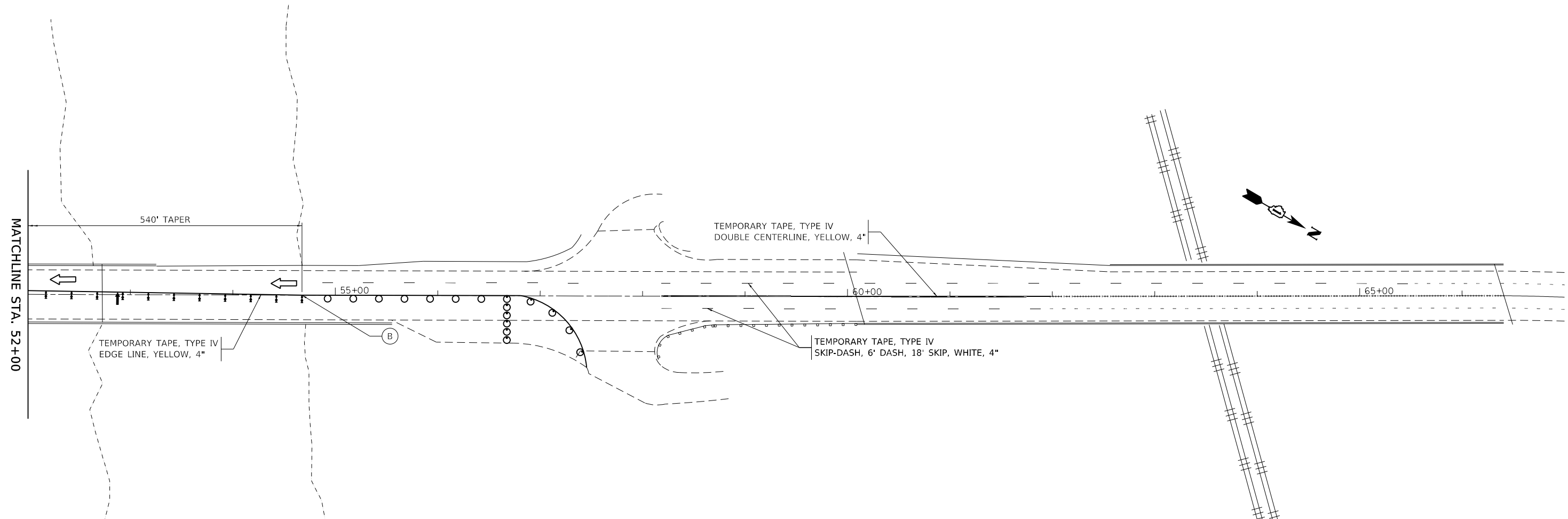
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION - STAGE 2 IL 83 AT S & S AND I & M CANALS			
SCALE:	SHEET 2 OF 4 SHEETS	STA.	TO STA.

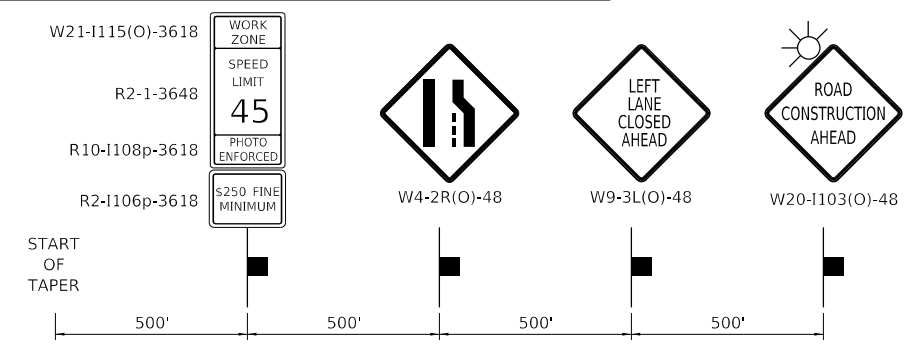
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	12
CONTRACT NO. 62H71			ILLINOIS FED. AID PROJECT	

LEGEND

-  WORK ZONE
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3
-  DRUMS @ 50' C-C IN TANGENTS WITHOUT LIGHT, DRUMS @ 25' C-C IN TAPERS WITH LIGHT
-  TYPE III BARRICADE
-  BARRIER WALL REFLECTORS, TYPE C
-  ARROWBOARD
-  DIRECTION INDICATOR BARRICADES



DETAIL B: ADVANCE WARNING SIGNS



MODEL: Default
 FILE: h:\mfc_projects\p10419\cadd\data\Design\10419_sht-ctg\p10419.dgn
 PROJECT: I:\Projects\10419\CADD\data\Design\10419_sht-ctg\p10419.dgn
 OFFICE: I:\Projects\10419\CADD\data\Design\10419_sht-ctg\p10419.dgn
 DATE: 3/9/2020

USER NAME = rothjp	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/9/2020	DATE -	REVISED -

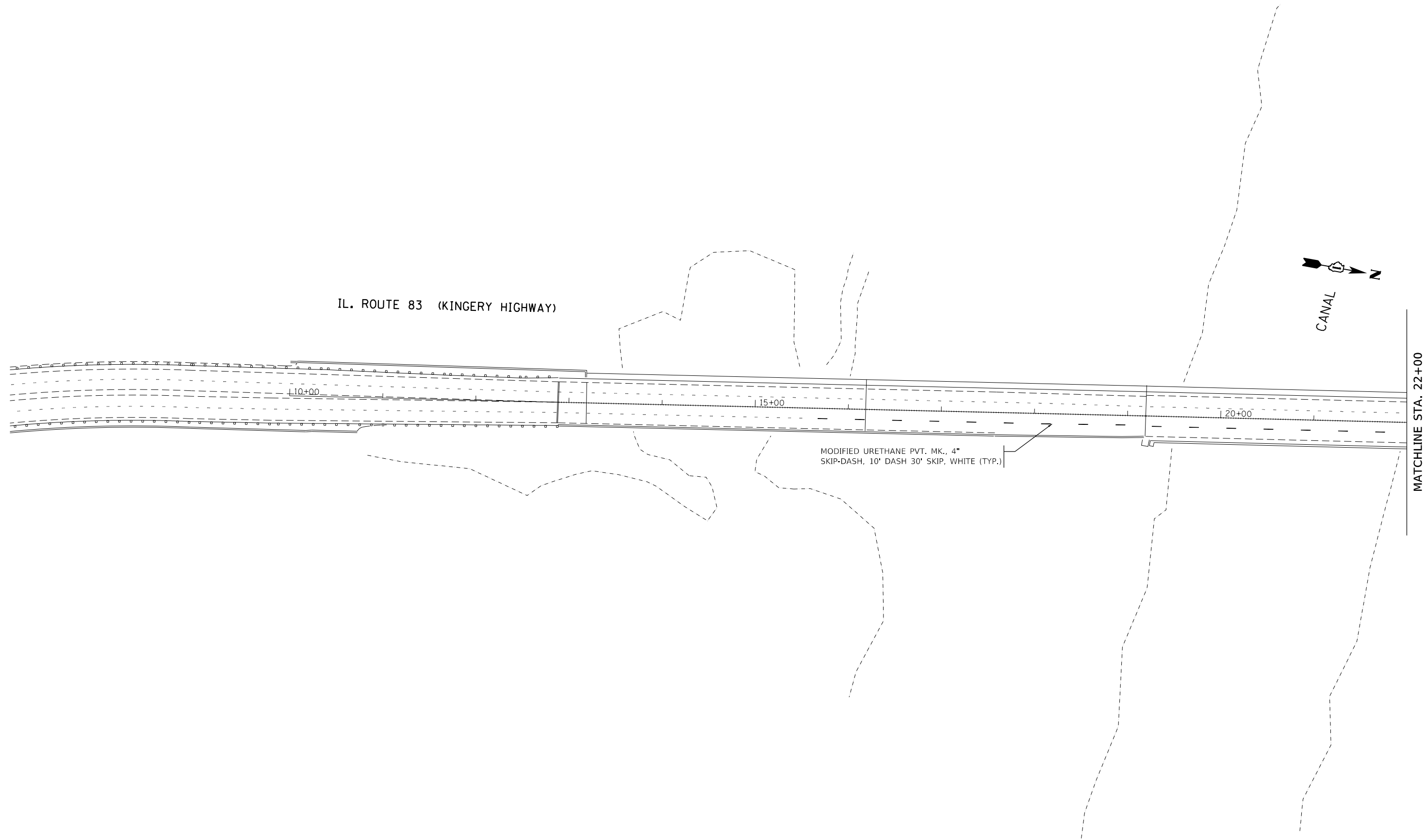
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION - STAGE 2
IL 83 AT S & S AND I & M CANALS

SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	14
CONTRACT NO. 62H71				
ILLINOIS FED. AID PROJECT				

IL. ROUTE 83 (KINGERY HIGHWAY)



CANAL

MATCHLINE STA. 22+00

MODIFIED URETHANE PVT. MK., 4"
SKIP-DASH, 10' DASH 30' SKIP, WHITE (TYP.)

10+00

15+00

20+00

MODEL: Default
FILE: \\nlsdot\pub\lanscom\data\illinois.gov\PWIDOT\Documents\DOT_Offices\District_1\Projects\10419\CADD\Drawings\10419-sh-4-lan.dgn

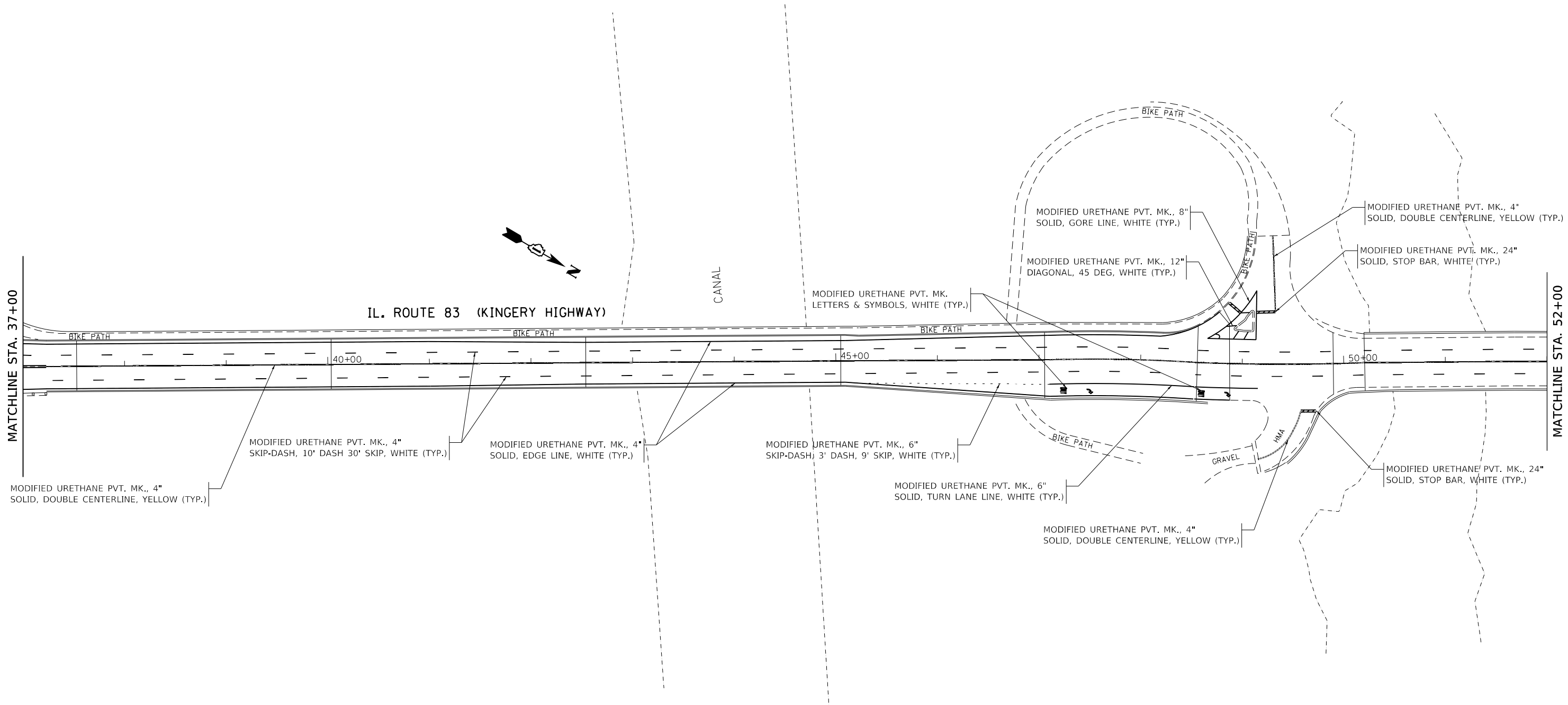
USER NAME = rothjp	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/31/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
IL 83 AT S & S AND I & M CANALS**

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	16
CONTRACT NO. 62H71				
ILLINOIS FED. AID PROJECT				



MODEL: Default
 FILE: h:\a\c\p\pub\barroom.dwg
 PROJECTS\DOT\Documents\DOT_Offices\District 1\Projects\10419\CADD\Drawings\10419-sh-4-lbr.dwg

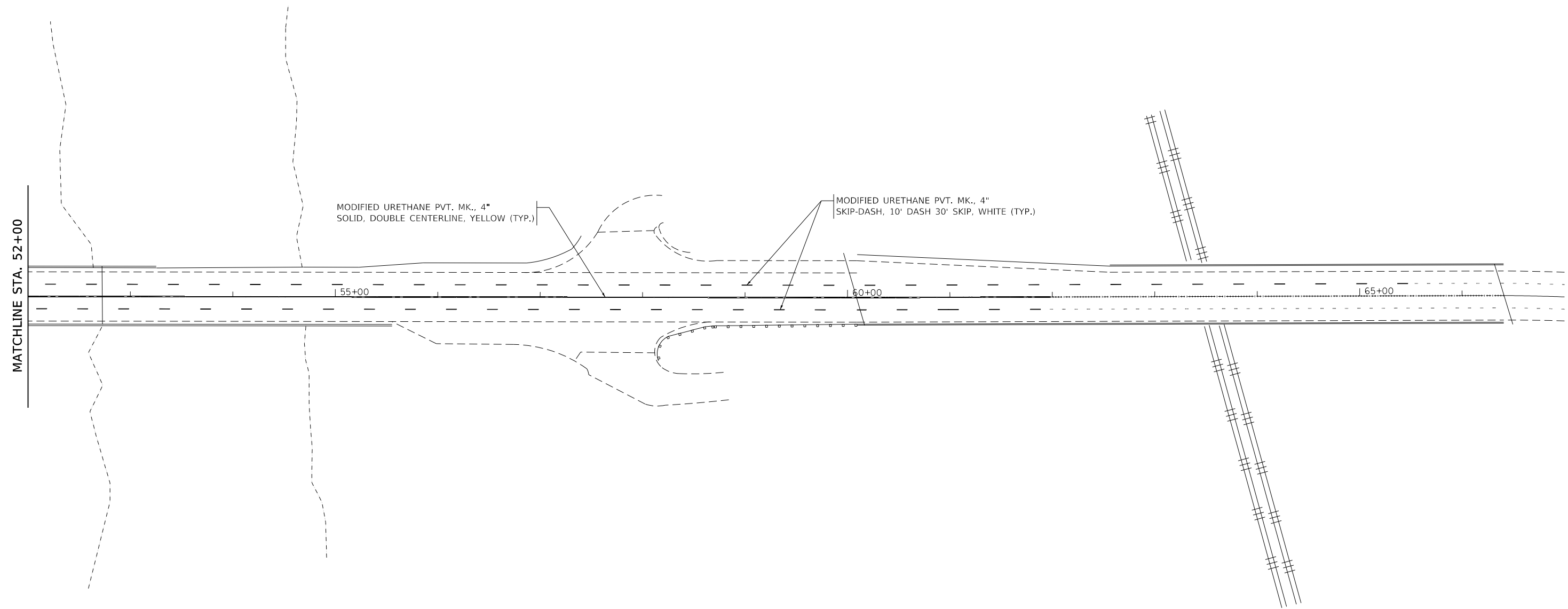
USER NAME = rothjp	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/31/2020	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN IL 83 AT S & S AND I & M CANALS			
SCALE:	SHEET 3 OF 4 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	18
CONTRACT NO. 62H71				
ILLINOIS FED. AID PROJECT				

MODEL: Default
 FILE: h:\m\c:\p\pub\barroom.dwg\illinois.gov\PWIDOT\Documents\DOT_Offices\District_1\Projects\10419\CADD\Drawings\10419-sh-4-lb-50p



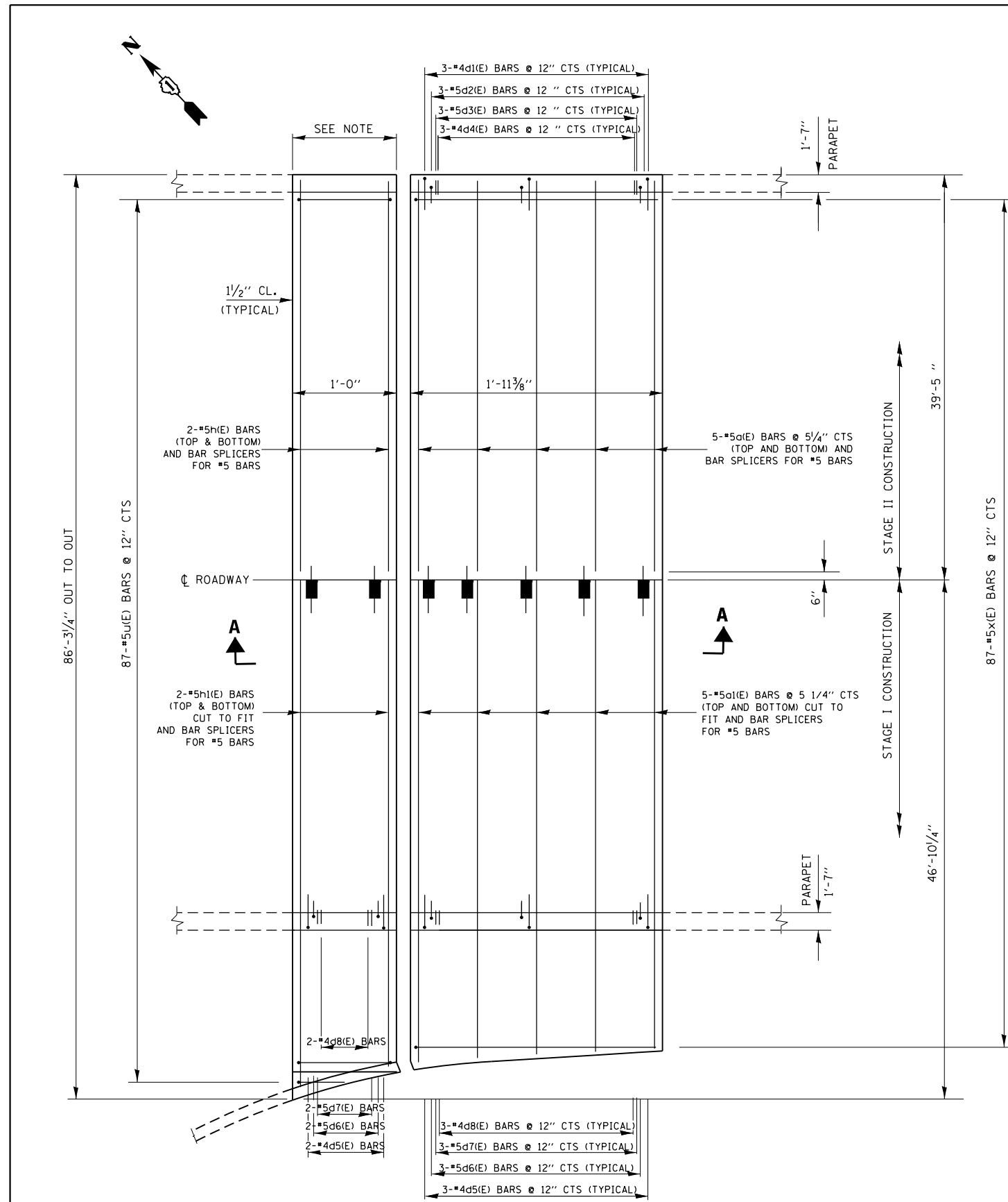
USER NAME = rothjp	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/31/2020	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

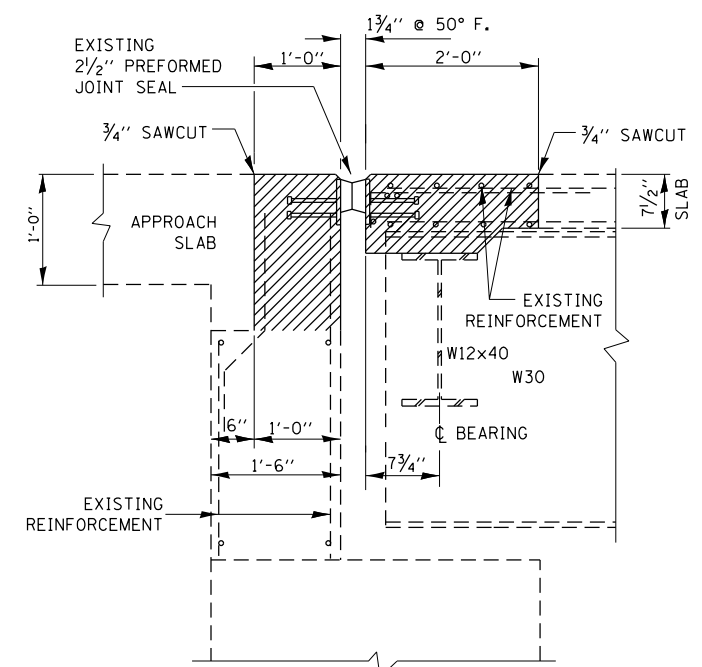
**PAVEMENT MARKING PLAN
 IL 83 AT S & S AND I & M CANALS**

F.A.P. RTE. 344	SECTION 2018-139-BR	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 19
CONTRACT NO. 62H71				ILLINOIS FED. AID PROJECT

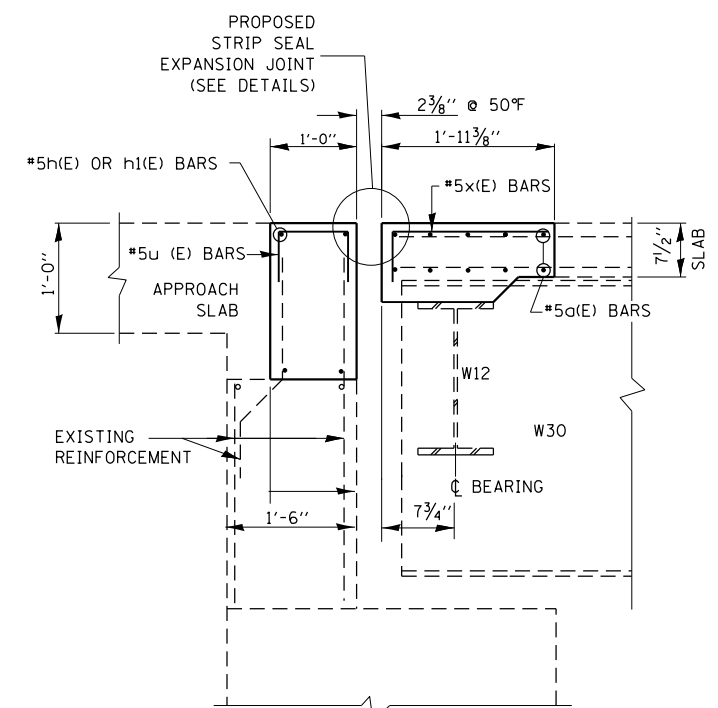
SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.



**PLAN
NORTH ABUTMENT**



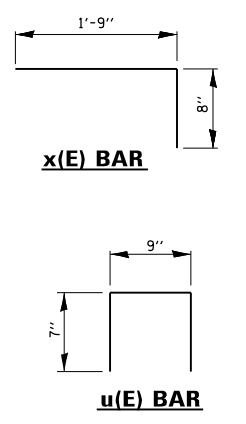
**SECTION A-A
(EXISTING)**



**SECTION A-A
(PROPOSED)**

BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	10	#5	39'-3"	—
a1(E)	10	#5	46'-8"	—
d1(E)	3	#4	3'-0"	L
d2(E)	3	#5	3'-0"	L
d3(E)	3	#5	2'-7"	L
d4(E)	3	#4	4'-8"	L
d5(E)	5	#4	3'-0"	L
d6(E)	5	#5	3'-9"	L
d7(E)	5	#5	2'-2"	L
d8(E)	5	#4	2'-3"	L
h(E)	4	#5	37'-6"	—
h1(E)	4	#5	34'-9"	—
u(E)	87	#5	1'-4"	□
x(E)	87	#5	2'-5"	□
REINFORCEMENT BARS (EPOXY COATED)		POUND	1620	
CONCRETE REMOVAL		CU.YD.	10.1	
CONCRETE SUPERSTRUCTURE		CU.YD.	10	
BAR SPLICERS		EACH	14	



LEGEND:

HATCHED AREA INDICATES CONCRETE REMOVAL

NOTE:

VERTICAL BARS EXTENDING FROM WINGWALL INTO PARAPET TO BE SALVAGED AT EAST PARAPET.

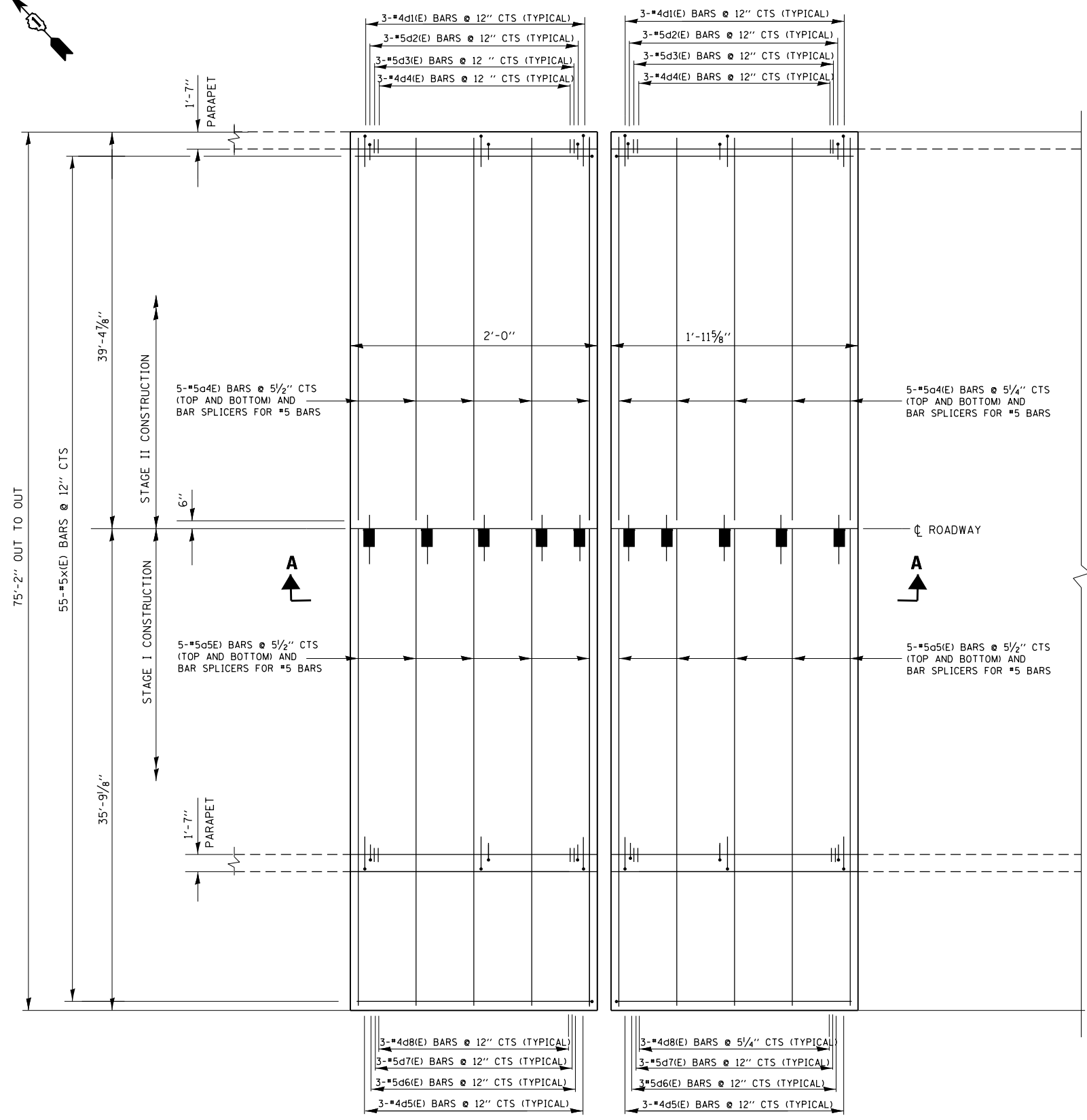
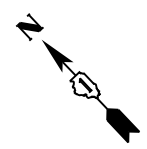
FILE NAME =	USER NAME = rothjp	DESIGNED - MVT	REVISED -
pw:\planroom.dot\illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\Struct\Drawings\Design\11061425.dgn		CHECKED - MJA	REVISED -
Default	PLOT DATE = 3/6/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

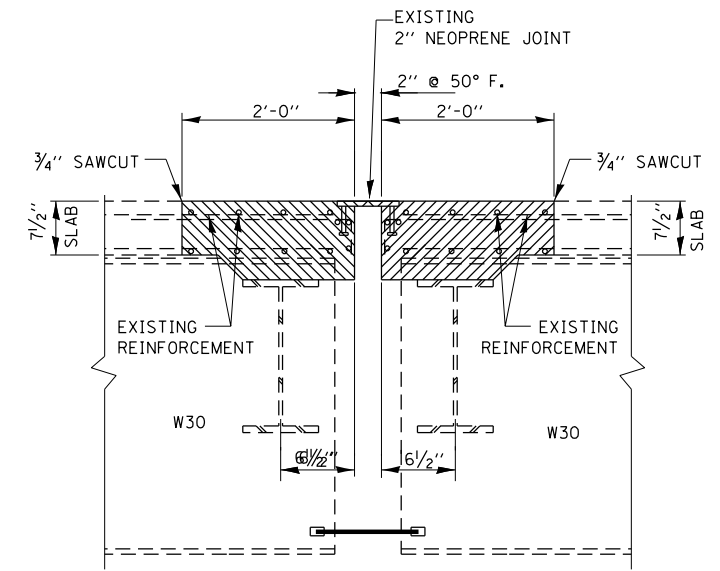
**IL ROUTE 83 OVER CHICAGO SANITARY SHIP CANAL
EXPANSION JOINT AT NORTH ABUTMENT
S.N. 016-0425**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	21
CONTRACT NO. 62H71				
ILLINOIS FED. AID PROJECT				

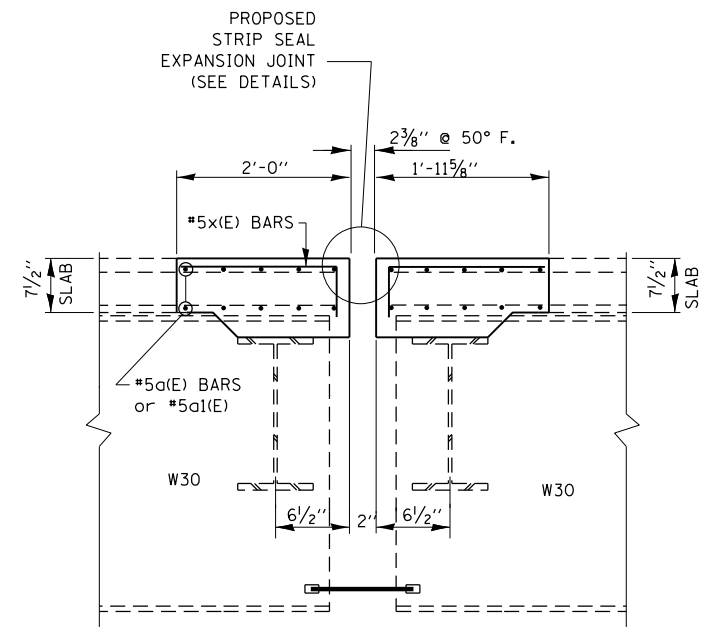
SCALE: SHEET 2 OF 29 SHEETS STA. TO STA.



PLAN
TRANSVERSE EXPANSION JOINT – PIER 3

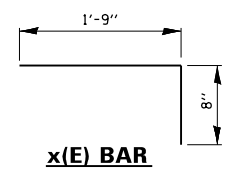


SECTION A-A
(EXISTING)

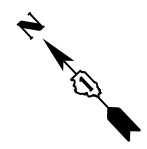


SECTION A-A
(EXISTING)

BILL OF MATERIALS				
BAR	NO.	SIZE	LENGTH	SHAPE
a4(E)	20	#5	39'-2"	
a5(E)	20	#5	35'-6 1/8"	
d1(E)	6	#4	3'-0"	L
d2(E)	6	#5	3'-0"	L
d3(E)	6	#5	2'-7"	L
d4(E)	6	#4	4'-8"	L
d5(E)	6	#4	3'-0"	L
d6(E)	6	#5	3'-9"	L
d7(E)	6	#5	2'-2"	L
d8(E)	6	#4	2'-3"	L
x(E)	100	#5	2'-5"	L
REINFORCEMENT BARS (EPOXY COATED)		POUND	1970	
CONCRETE REMOVAL		CU.YD.	9.7	
CONCRETE SUPERSTRUCTURE		CU.YD.	8.8	
BAR SPLICERS		EACH	20	

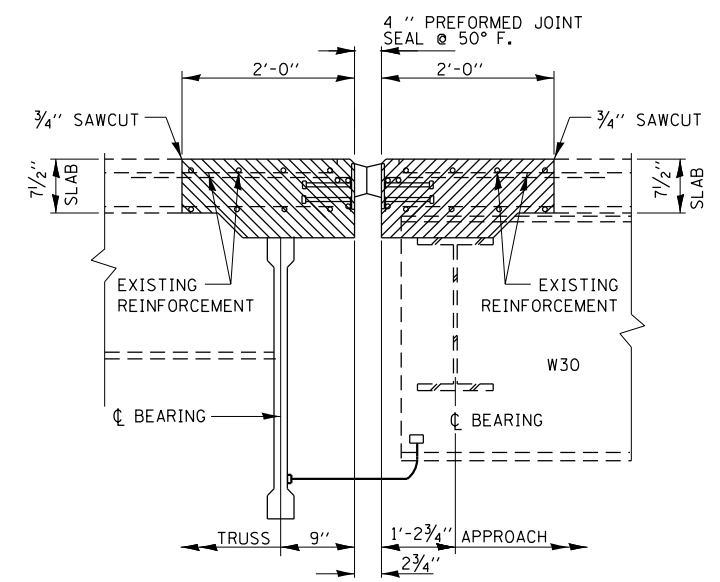
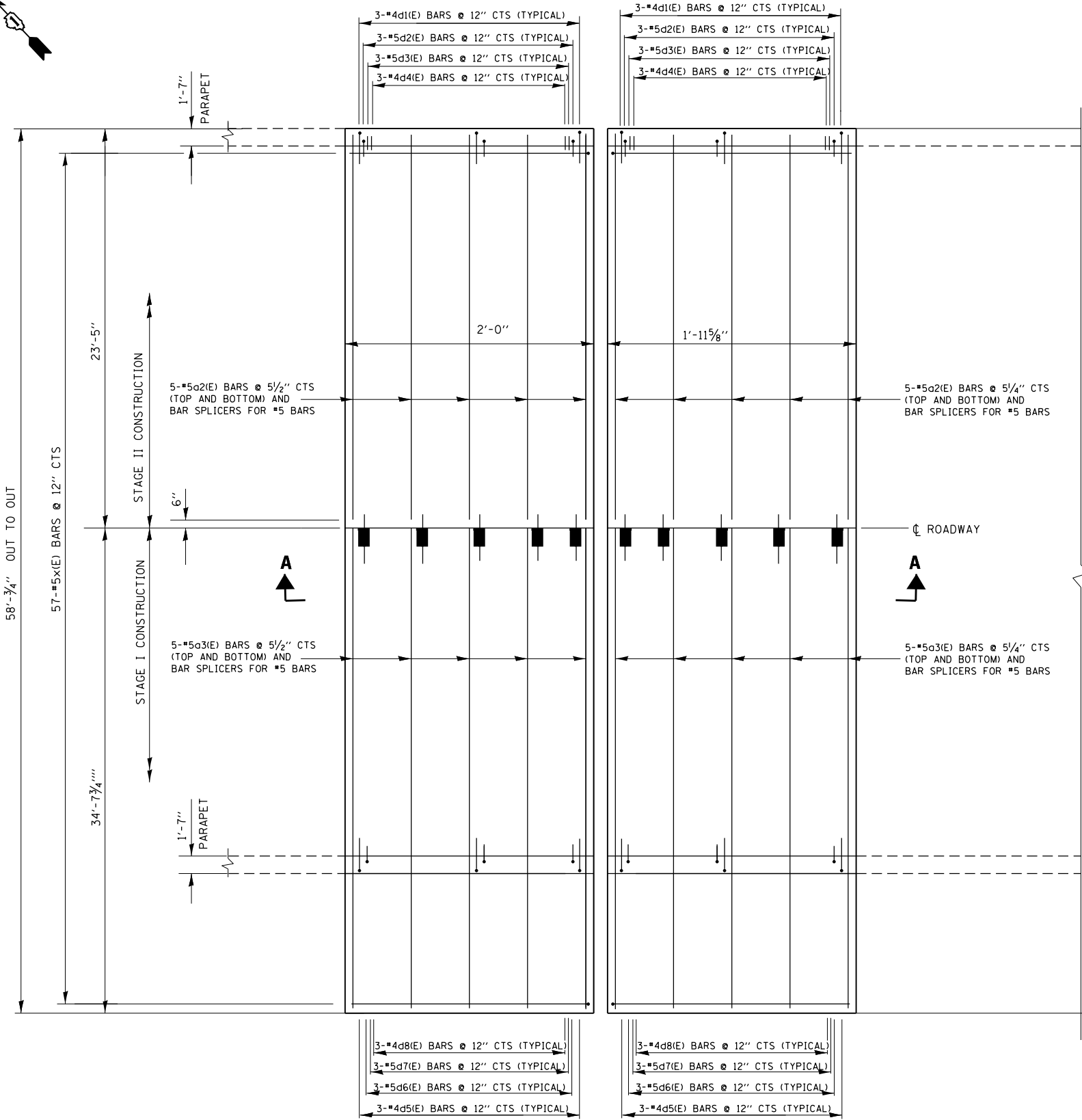


LEGEND:
 HATCHED AREA INDICATES CONCRETE REMOVAL

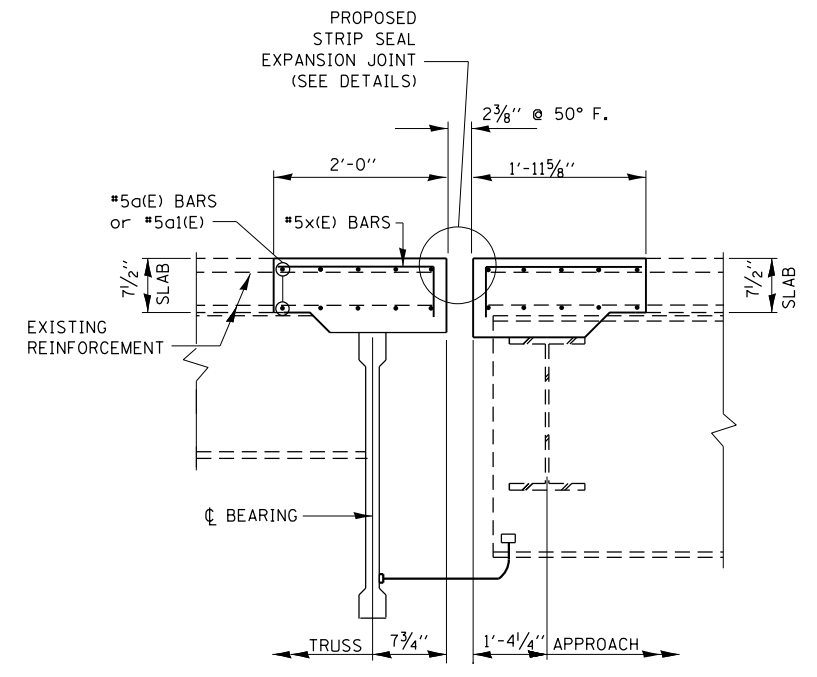


BILL OF MATERIALS

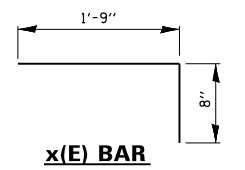
BAR	NO.	SIZE	LENGTH	SHAPE	
a2(E)	20	#5	23'-3"		
a3(E)	20	#5	34'-5"		
d1(E)	6	#4	3'-0"	L	
d2(E)	6	#5	3'-0"	L	
d3(E)	6	#5	2'-7"	L	
d4(E)	6	#4	4'-8"	L	
d5(E)	6	#4	3'-0"	L	
d6(E)	6	#5	3'-9"	L	
d7(E)	6	#5	2'-2"	L	
d8(E)	6	#4	2'-3"	L	
x(E)	114	#5	2'-5"	L	
REINFORCEMENT BARS (EPOXY COATED)				POUND	1616
CONCRETE REMOVAL				CU.YD.	7.7
CONCRETE SUPERSTRUCTURE				CU.YD.	7
BAR SPLICERS				EACH	40



**SECTION A-A
(EXISTING)**



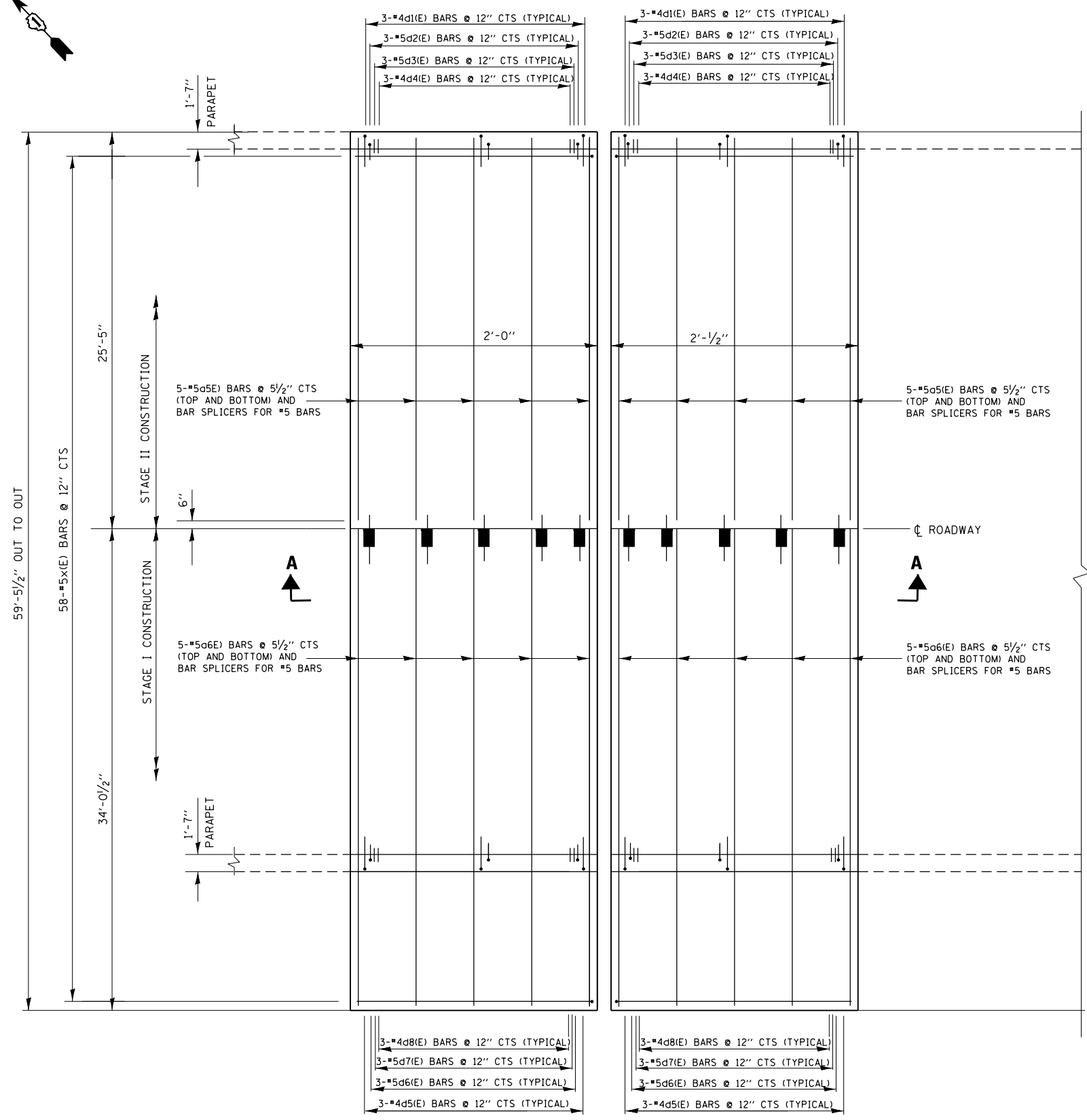
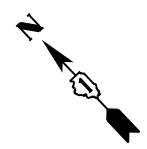
**SECTION A-A
(PROPOSED)**



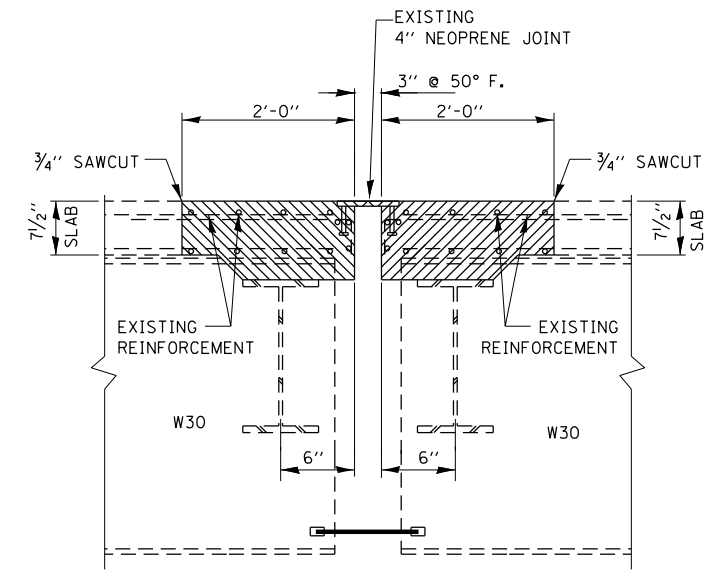
LEGEND:

HATCHED AREA INDICATES CONCRETE REMOVAL

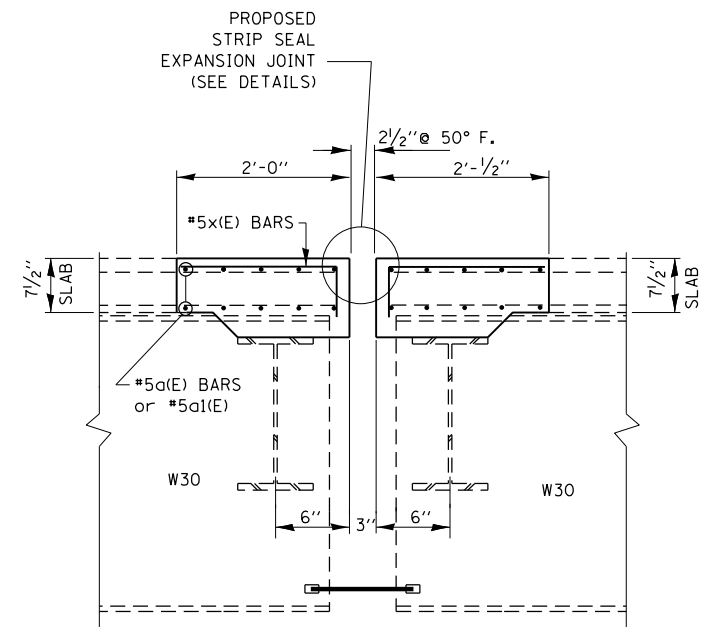
**PLAN
TRANSVERSE EXPANSION JOINT – PIER 8**



PLAN
TRANSVERSE EXPANSION JOINT – PIER 13

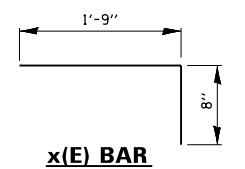


SECTION A-A
(EXISTING)

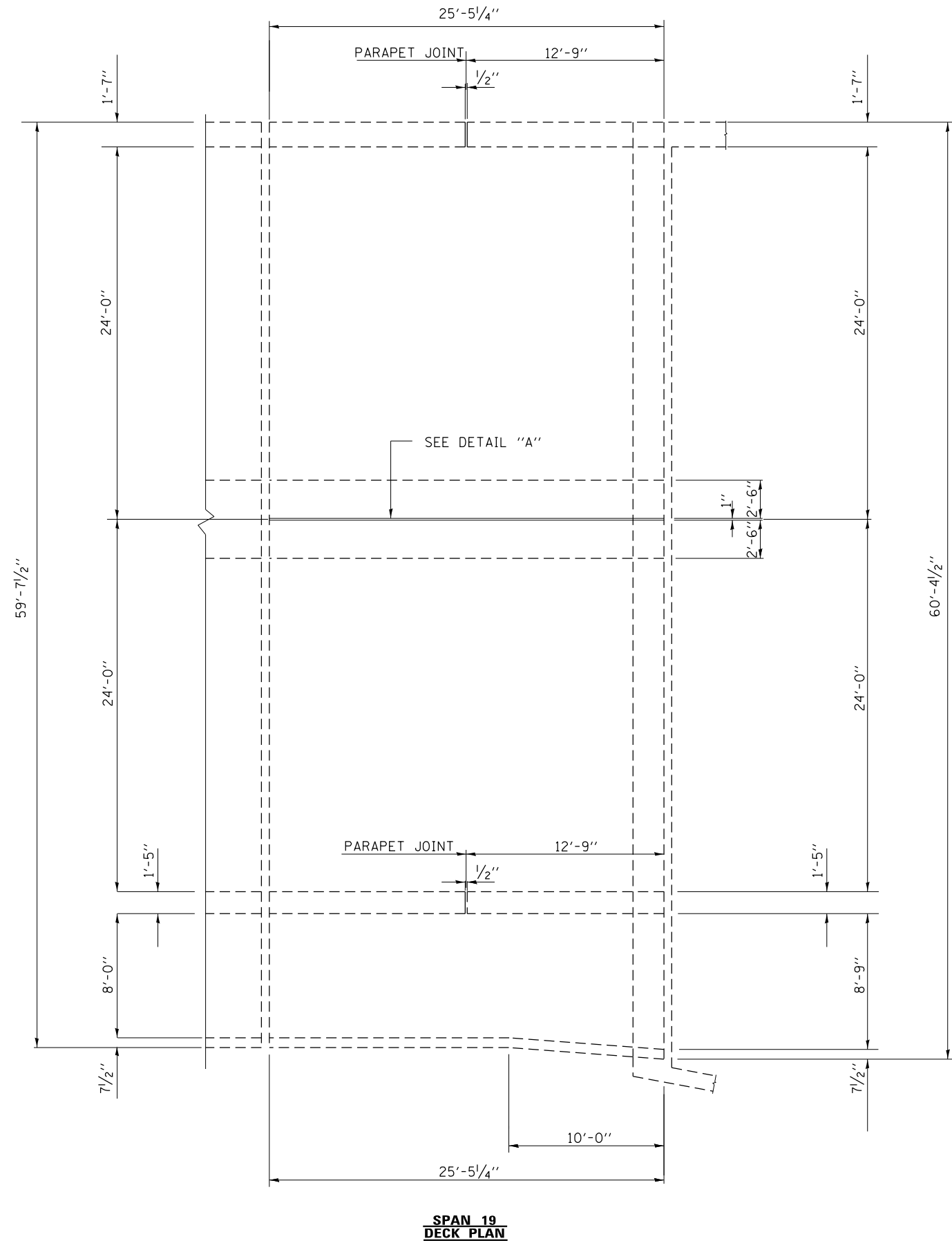


SECTION A-A
(EXISTING)

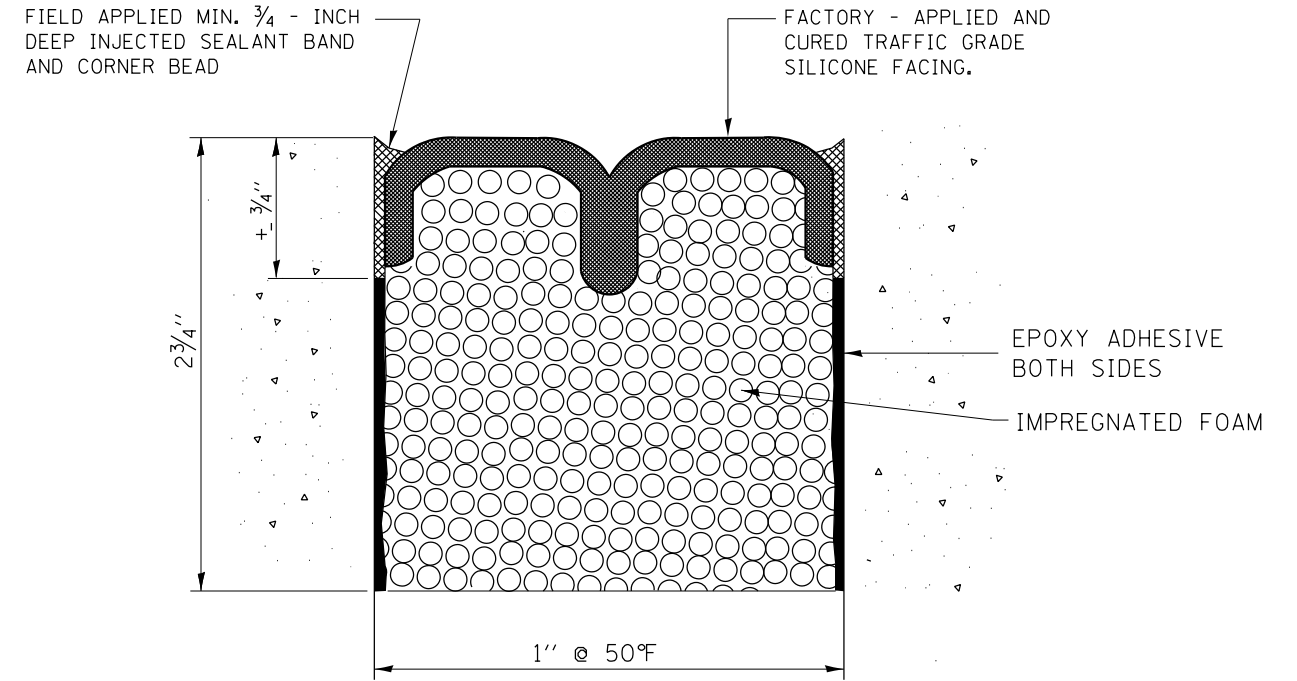
BILL OF MATERIALS				
BAR	NO.	SIZE	LENGTH	SHAPE
a5(E)	20	#5	25'-5"	—
a6(E)	20	#5	33'-10"	—
d1(E)	6	#4	3'-0"	L
d2(E)	6	#5	3'-0"	L
d3(E)	6	#5	2'-7"	L
d4(E)	6	#4	4'-8"	L
d5(E)	6	#4	3'-0"	L
d6(E)	6	#5	3'-9"	L
d7(E)	6	#5	2'-2"	L
d8(E)	6	#4	2'-3"	L
x(E)	58	#5	2'-5"	L
REINFORCEMENT BARS (EPOXY COATED)		POUND	1510	
CONCRETE REMOVAL		CU.YD.	7.7	
CONCRETE SUPERSTRUCTURE		CU.YD.	7.7	
BAR SPLICERS		EACH	20	



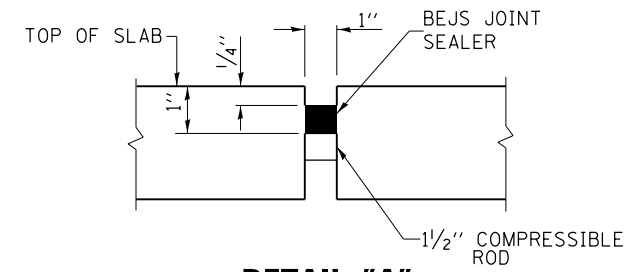
LEGEND:
 HATCHED AREA INDICATES CONCRETE REMOVAL



**SPAN 19
DECK PLAN**



PREFORMED JOINT SEAL AT JOINT



DETAIL "A"

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 ADJUSTMENT 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 BASED AT THE UNIT PRICE BID FOR THE WORK.

REPAIR AREAS OF SPALLED OR DETERIORATED CONCRETE ADJACENT TO EXPANSION JOINT. JOINT SEALS SHALL BE PREFORMED PRE-COMPRESSED, SILICONE COATED SELF EXPANSION SEALANT SYSTEM.

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
PREFORMED JOINT SEAL 1"	FOOT	26

MODEL: Default
 FILE: \\nlsdc-pw\pub\baroncom.dwg\Illinois.gov\PW\DOT\Documents\DOT_Offices\Illinet\1\Projects\Struct\1\CAD\Drawings\1016-0125.dgn

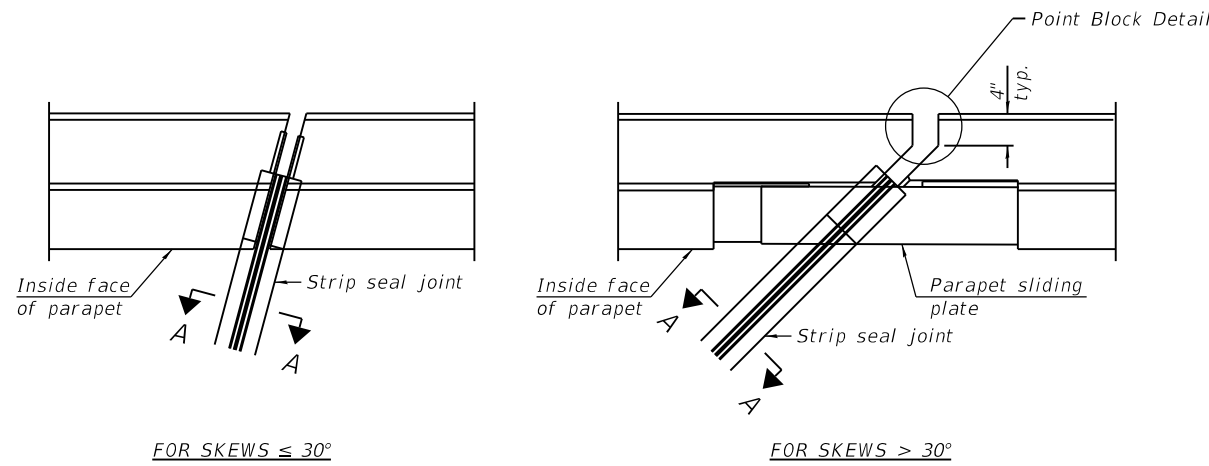
USER NAME = rothjp	DESIGNED - MVT	REVISED -
	DRAWN - MVT	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJA	REVISED -
PLOT DATE = 3/6/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 83 OVER CHICAGO SANITARY SHIP CANAL
SPAN 19 - BRIDGE EXPANSION JOINT
S.N. 016-0425**

SCALE: SHEET 8 OF 29 SHEETS STA. TO STA.

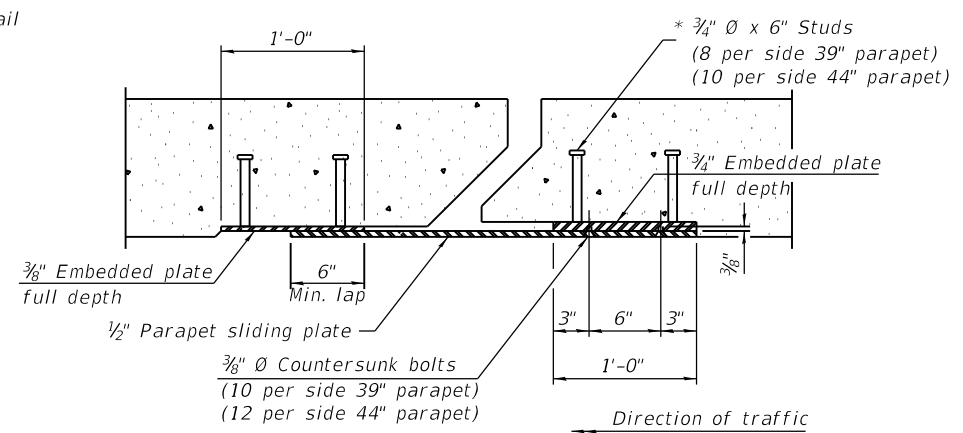
F.A.P. RTE. 344	SECTION 2018-139-BR	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 27
ILLINOIS FED. AID PROJECT				CONTRACT NO. 62H71



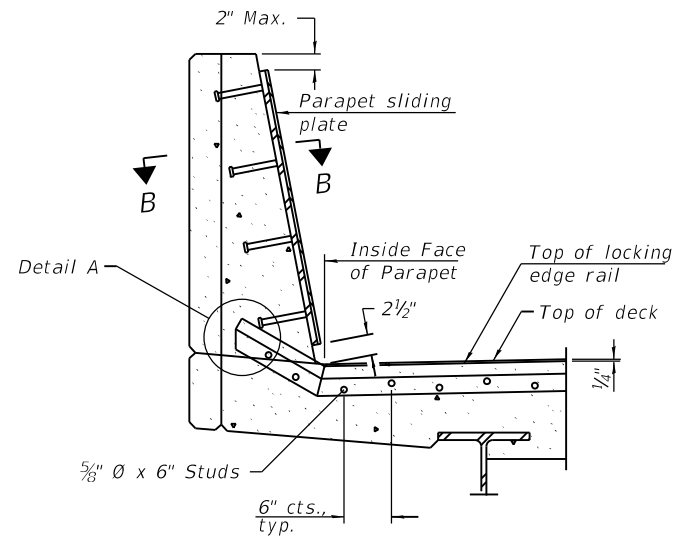
FOR SKEWS $\leq 30^\circ$

PLAN AT PARAPET

FOR SKEWS $> 30^\circ$

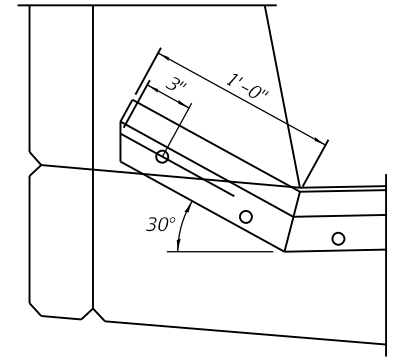


SECTION B-B

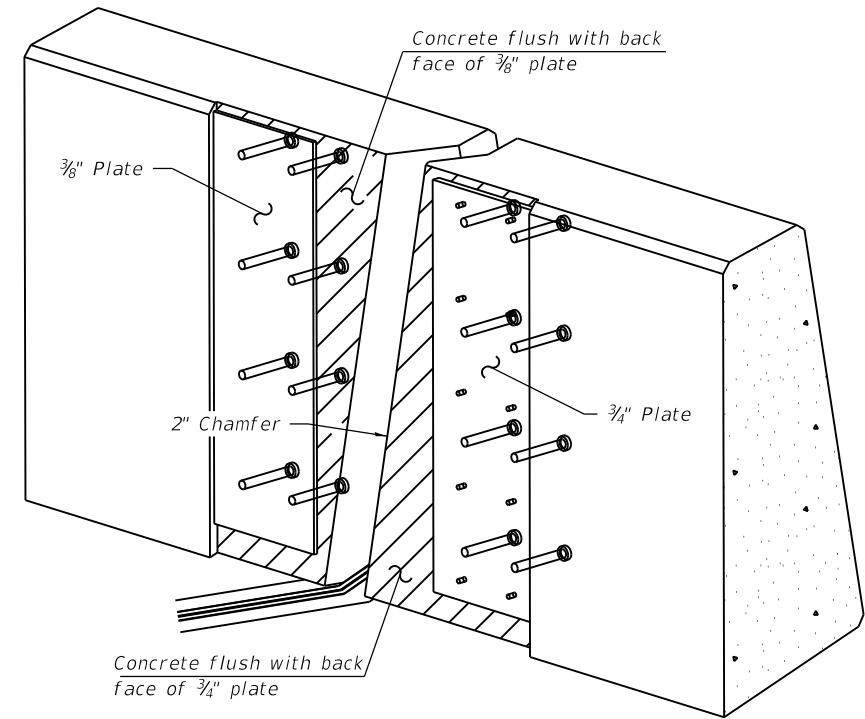


SECTION AT PARAPET

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

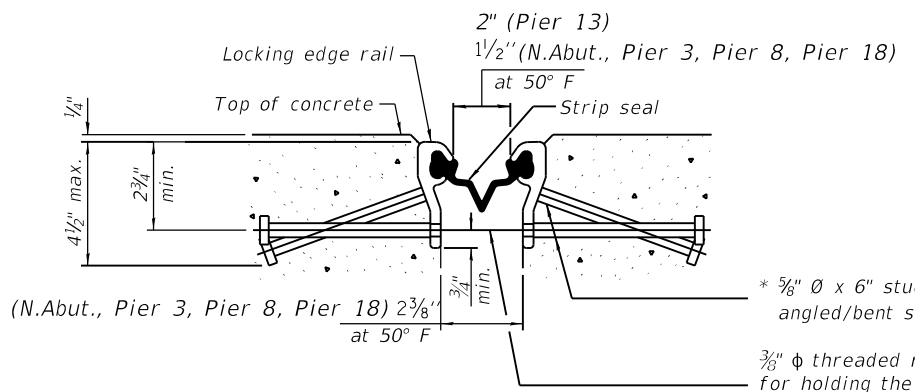


DETAIL A



TRIMETRIC VIEW

(Showing embedded plates only)



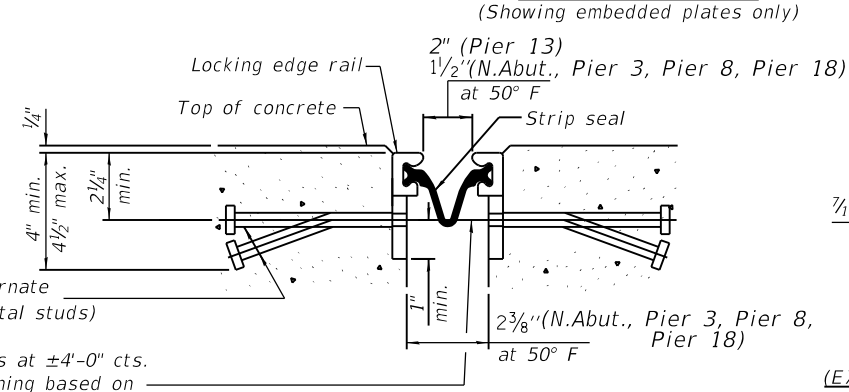
SHOWING ROLLED RAIL JOINT

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

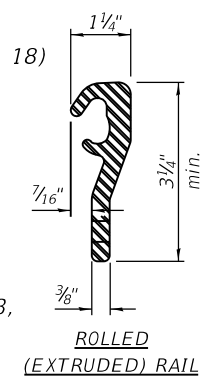
$\frac{3}{8}$ " ϕ threaded rods in $\frac{7}{16}$ " ϕ holes at ± 4 "-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set. Specs., automatically end welded.

SECTION A-A

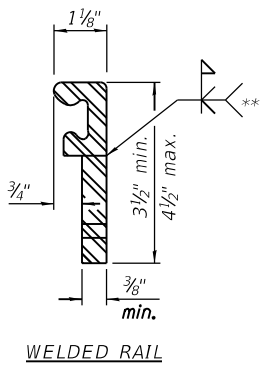
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std.



SHOWING WELDED RAIL JOINT



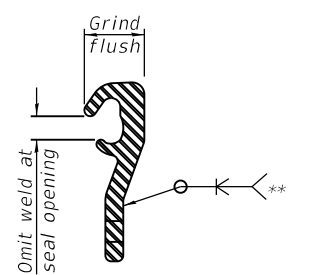
ROLLED (EXTRUDED) RAIL



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	339

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the $4\frac{1}{2}$ " maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.
 The manufacturer's recommended installation methods shall be followed.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
 The Maximum space between locking edge rail segments shall be $\frac{3}{16}$ " and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.
 The top surface of sidewalk sliding plates shall have a raised pattern according to ASTM A786.
 Cost of parapet sliding plates, sidewalk sliding plates, embedded plates, anchorage studs, and expansion anchors included with Preformed Joint Strip Seal.
 39" constant slope barrier shown, 44" constant slope barrier similar as noted.
 The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

EJ-SS-S 1-1-2020

USER NAME = rothjp	DESIGNED - MVT	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - MVT	REVISED -
PLOT DATE = 3/9/2020	CHECKED - MJA	REVISED -
	DATE -	REVISED -

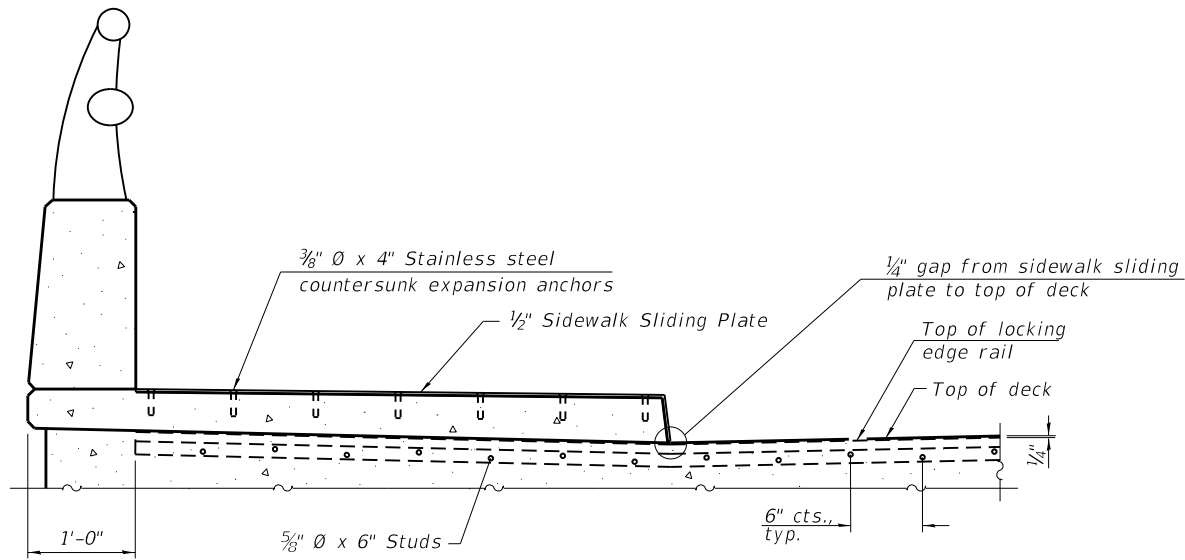
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 83 OVER CHICAGO SANITARY SHIP CANAL
 PREFORMED JOINT STRIP SEAL - SIDEWALK
 S.N. 016-0425

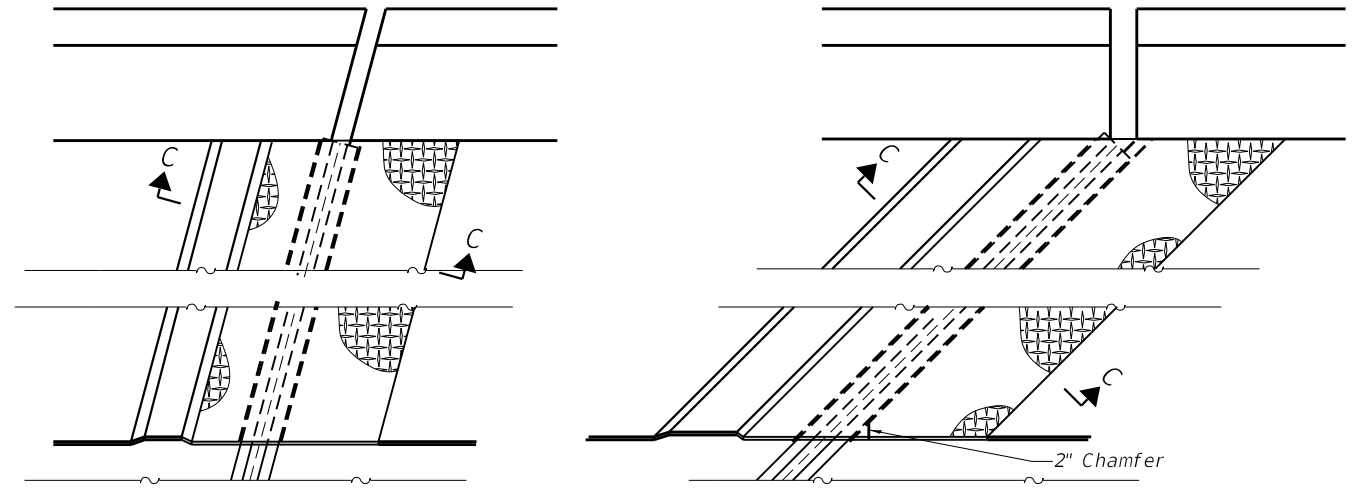
SCALE: SHEET 9 OF 22 SHEETS STA. TO STA.

F.A.P. RTE. 344	SECTION 2018-139-BR	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 28
CONTRACT NO. 62H71			ILLINOIS FED. AID PROJECT	

MODEL: Default
 FILE: \\nrcs\p\pub\baronm.dwg
 PROJECT: \\nrcs\p\pub\baronm.dwg
 OFFICE: \\nrcs\p\pub\baronm.dwg
 DATE: 3/9/2020



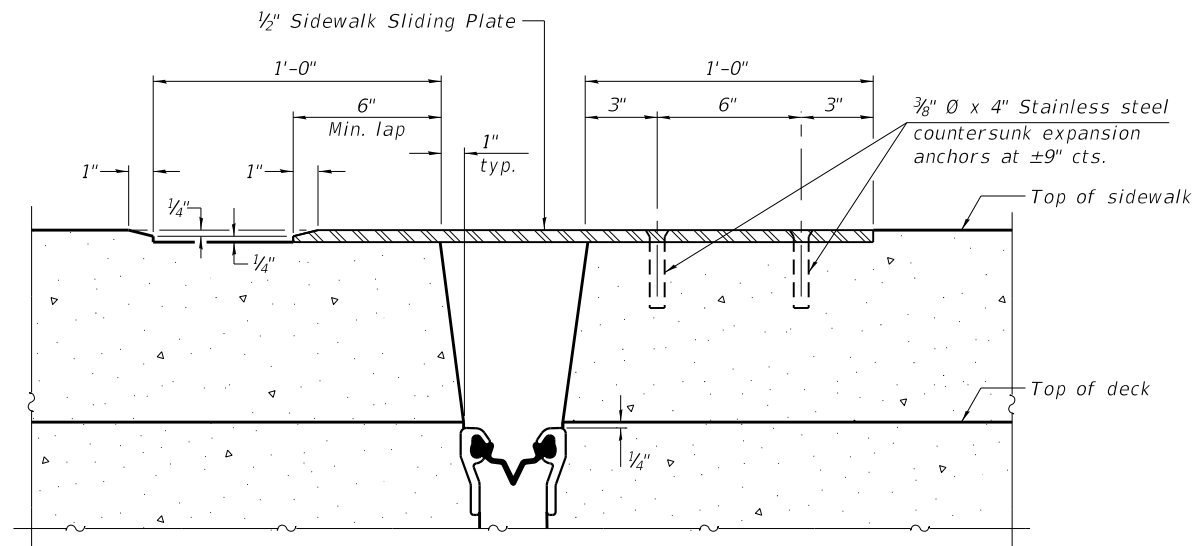
SECTION AT RAISED SIDEWALK



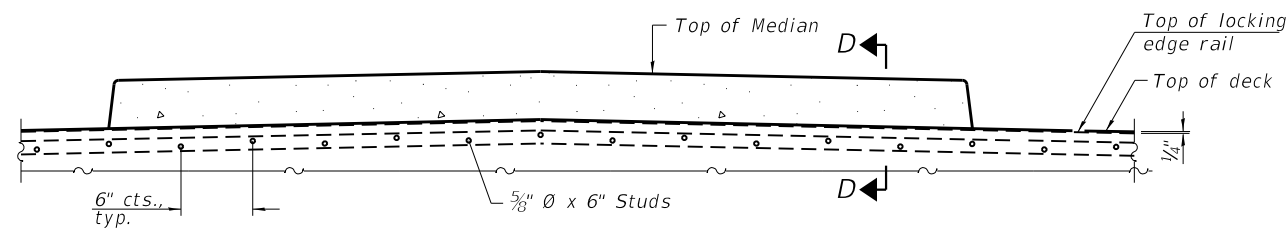
(FOR SKEWS $\leq 30^\circ$)

(FOR SKEWS $> 30^\circ$)

PLAN AT RAISED SIDEWALK

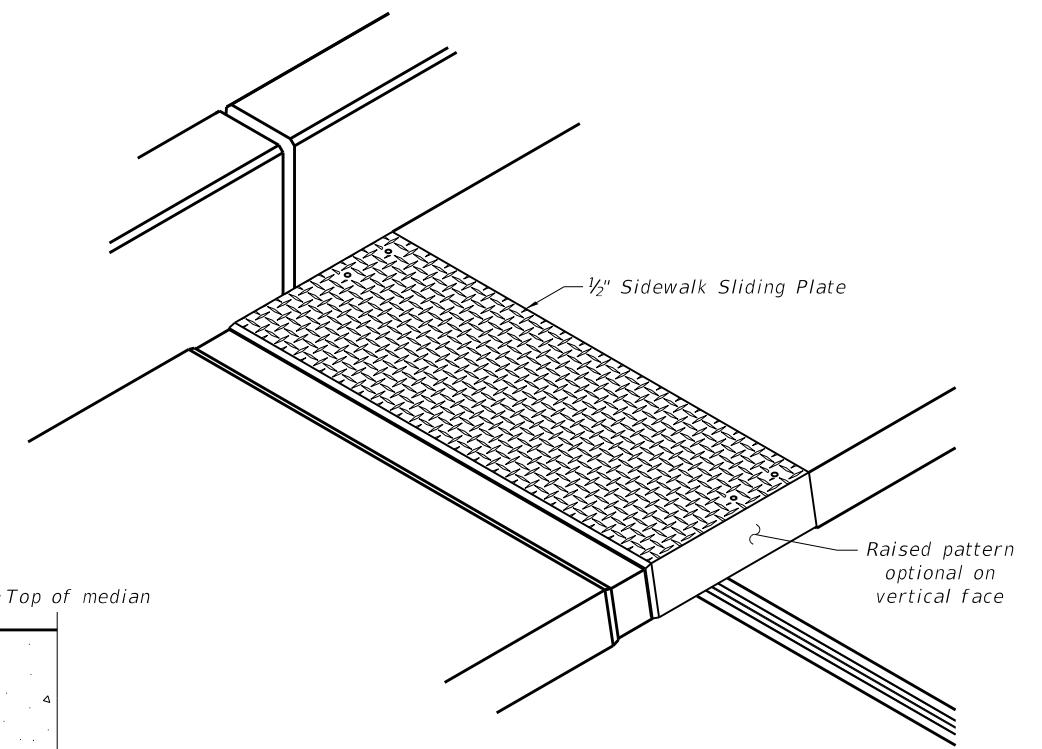


SECTION C-C

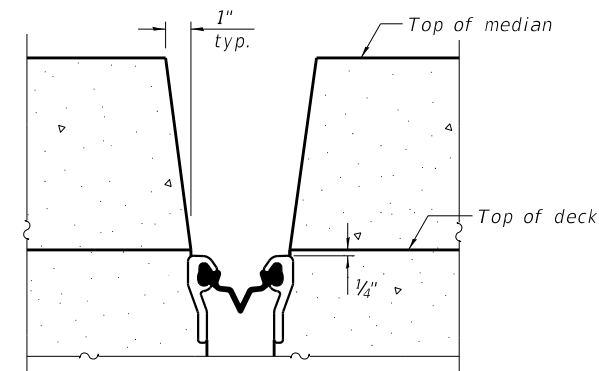


SECTION AT MEDIAN

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



TRIMETRIC VIEW



SECTION D-D

(at Rt. L's)

EJ-SS-S

1-1-2020

(Sheet 2 of 3)

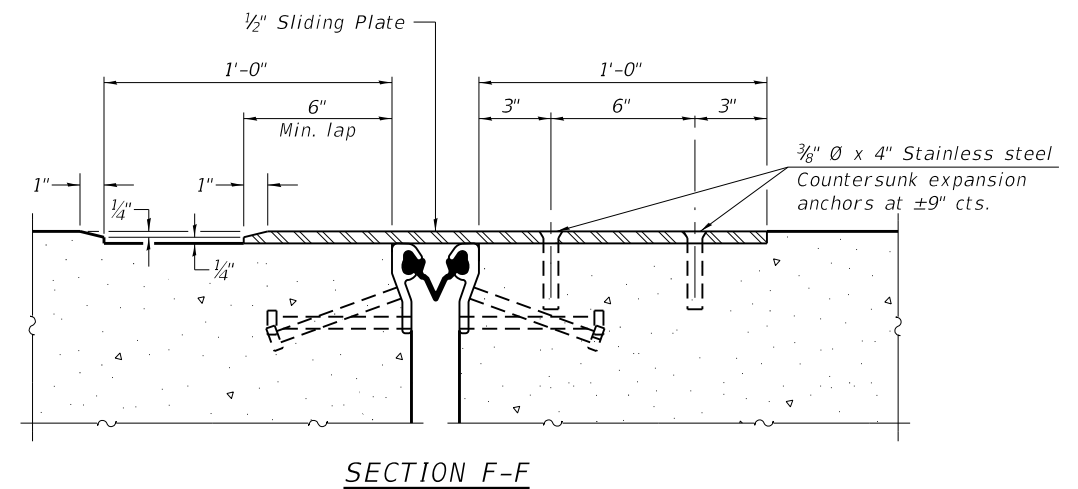
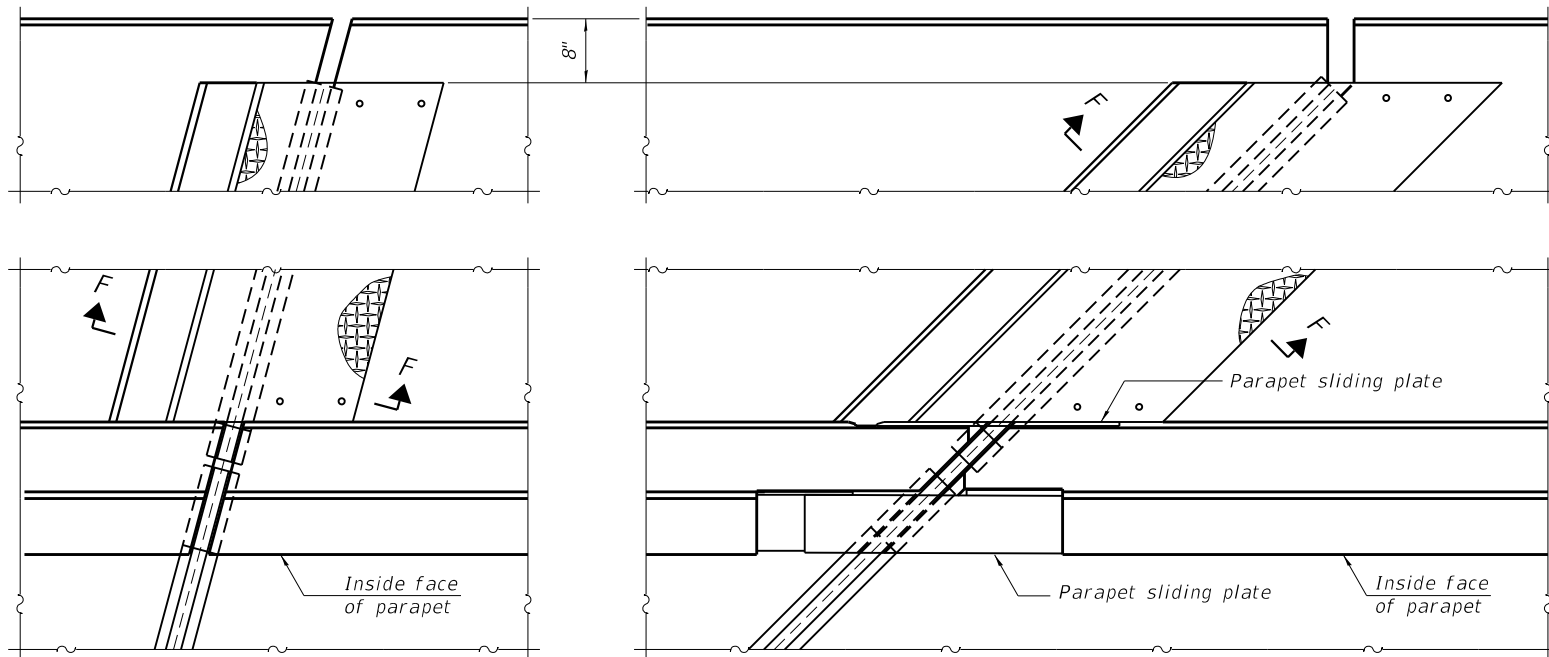
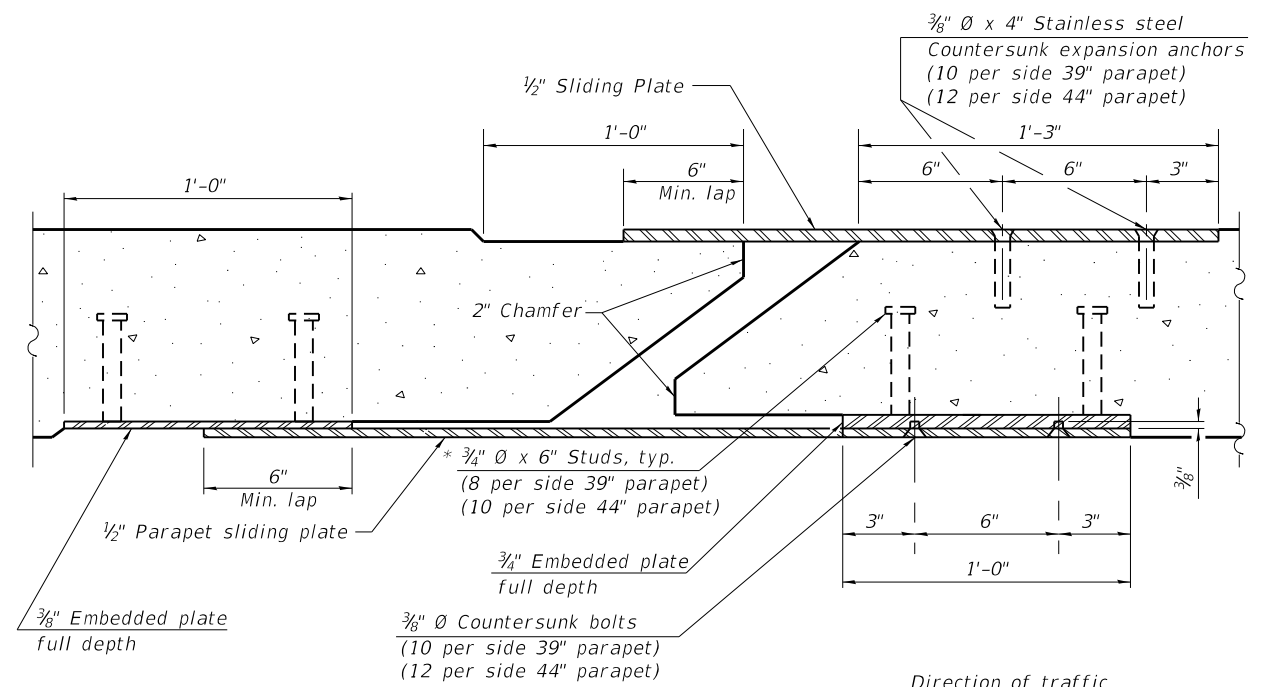
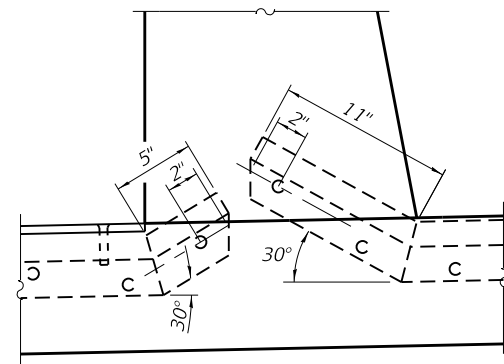
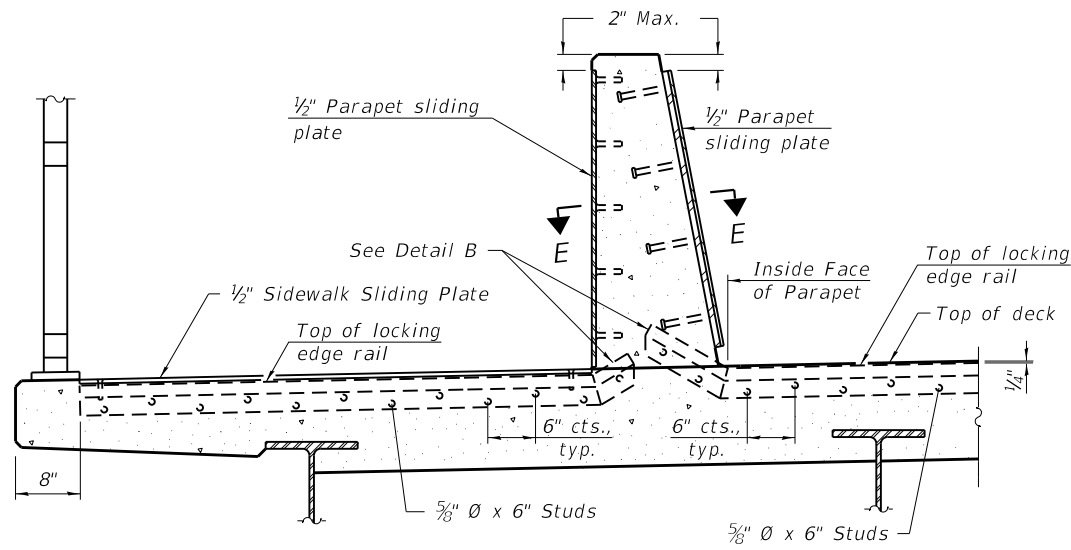
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL - SIDEWALK
STRUCTURE NO. 016-0425**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	28a
CONTRACT NO. 62H71				

SCALE: SHEET 9a OF 29 SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT



EJ-SS-S

1-1-2020

(Sheet 3 of 3)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

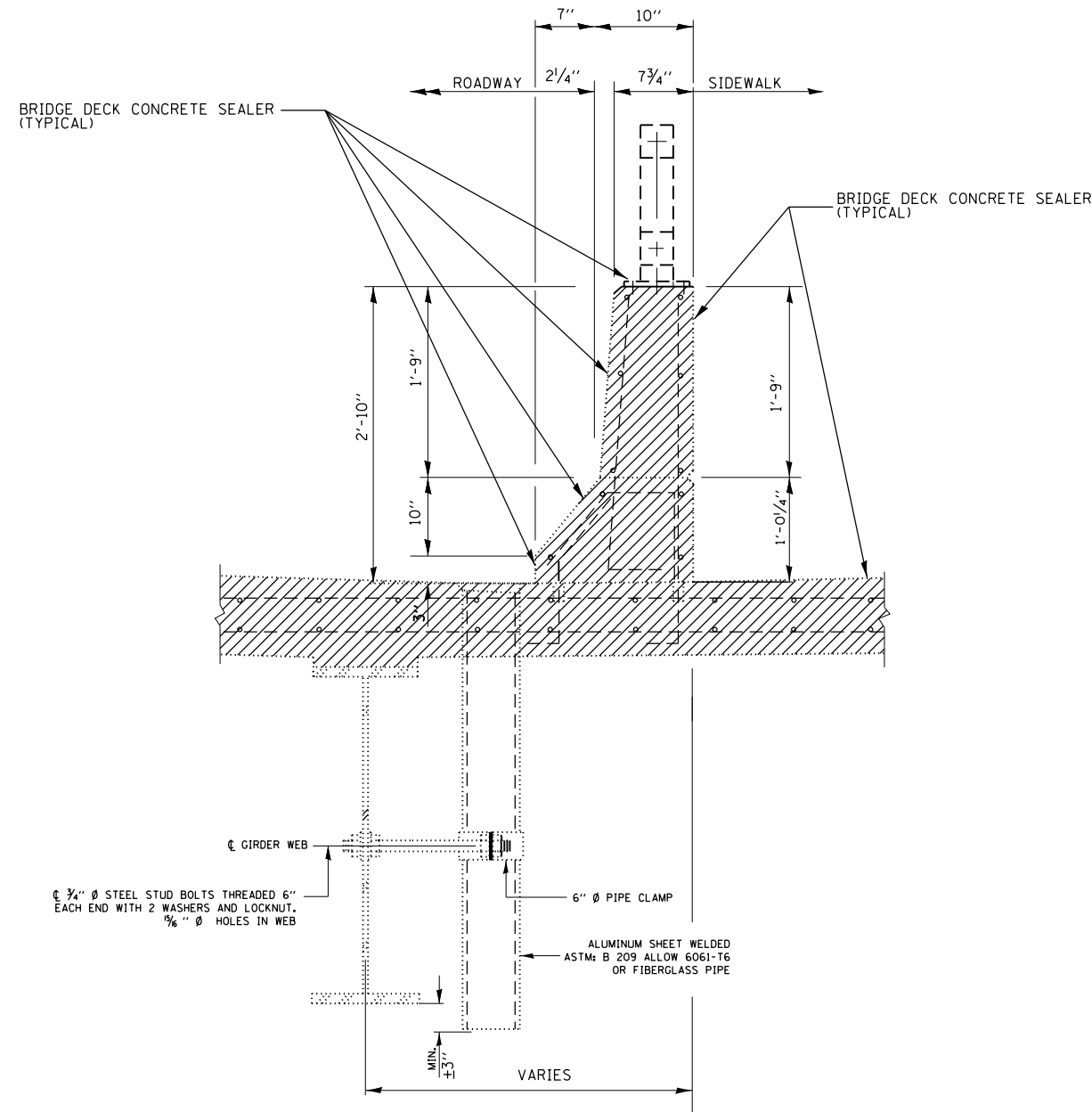
PREFORMED JOINT STRIP SEAL - SIDEWALK
STRUCTURE NO. 016-0425

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	28b
CONTRACT NO. 62H71				

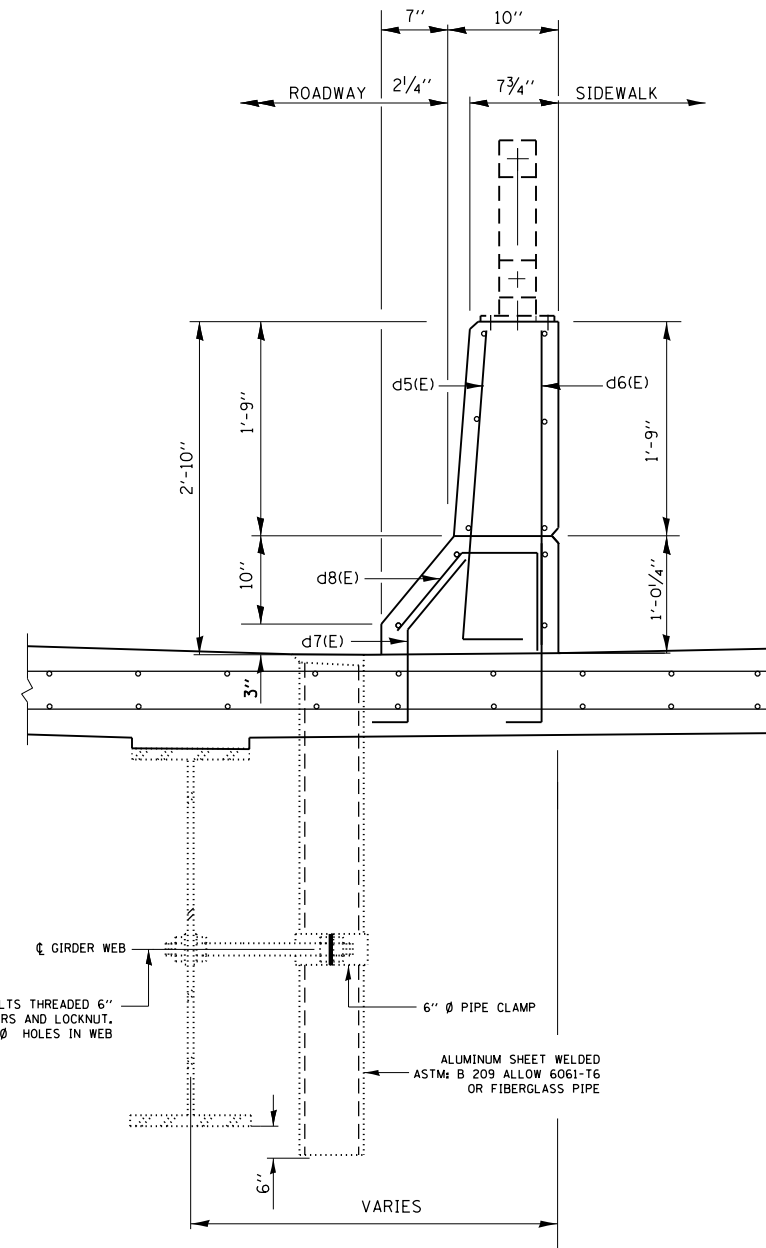
SCALE: SHEET 9b OF 29 SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

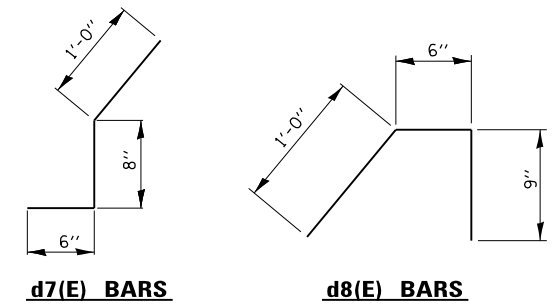
MODEL: Default
FILE: \\hpc\p\baron\m.d\at\links\gov\PI\DOT\Documents\DOT - Offices\Director - 1\Projects\Structure\016-0425.dgn



SECTION AT WEST PARAPET (TYPICAL)

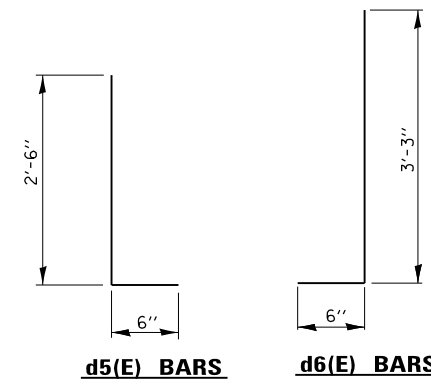


SECTION AT WEST PARAPET (TYPICAL)



d7(E) BARS

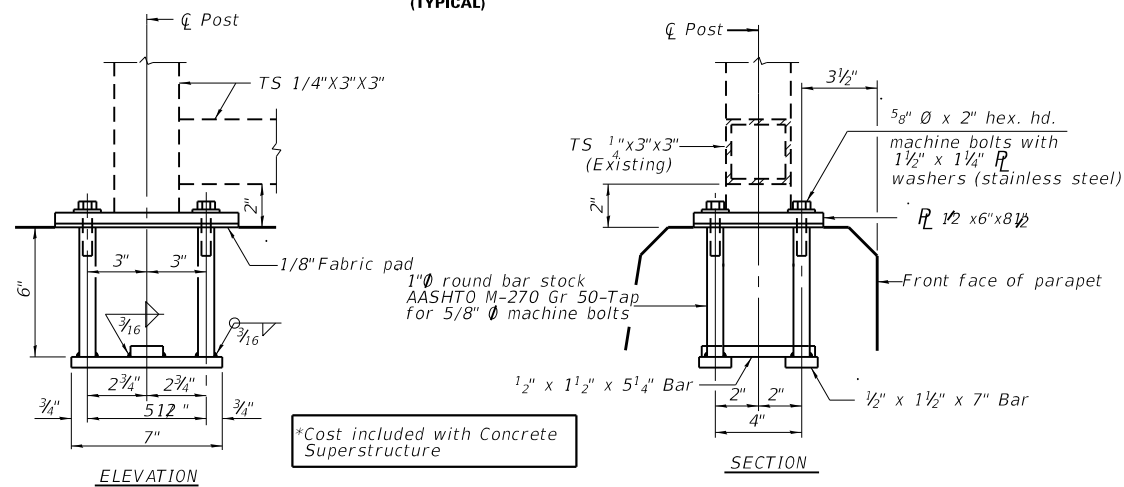
d8(E) BARS



d5(E) BARS

d6(E) BARS

NOTE:
BRIDGE DECK CONCRETE SEALER SHALL BE APPLIED TO THE ENTIRE SURFACES OF CONCRETE DECK, SIDEWALKS TOP AND FACES OF PARAPETS OF THE BRIDGE STRUCTURE.

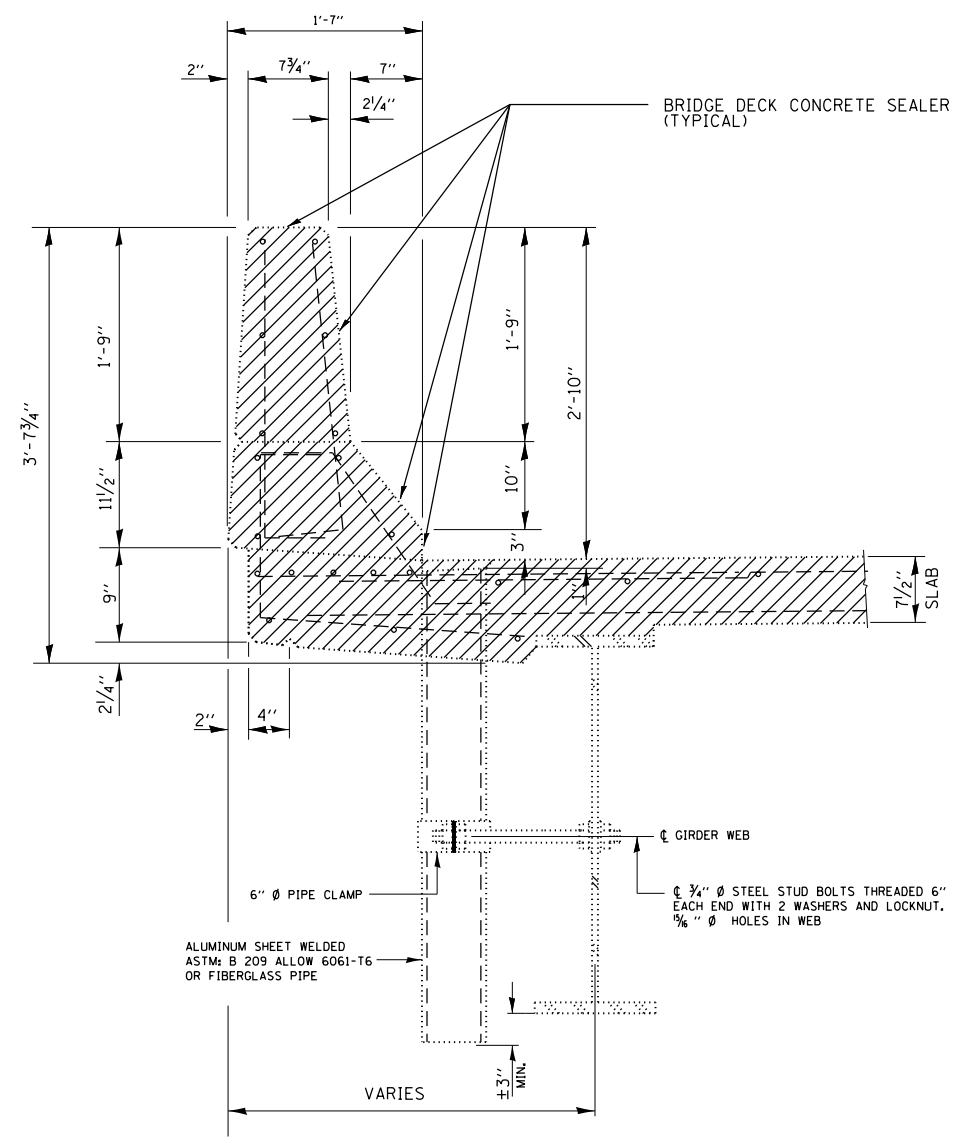


*Cost included with Concrete Superstructure

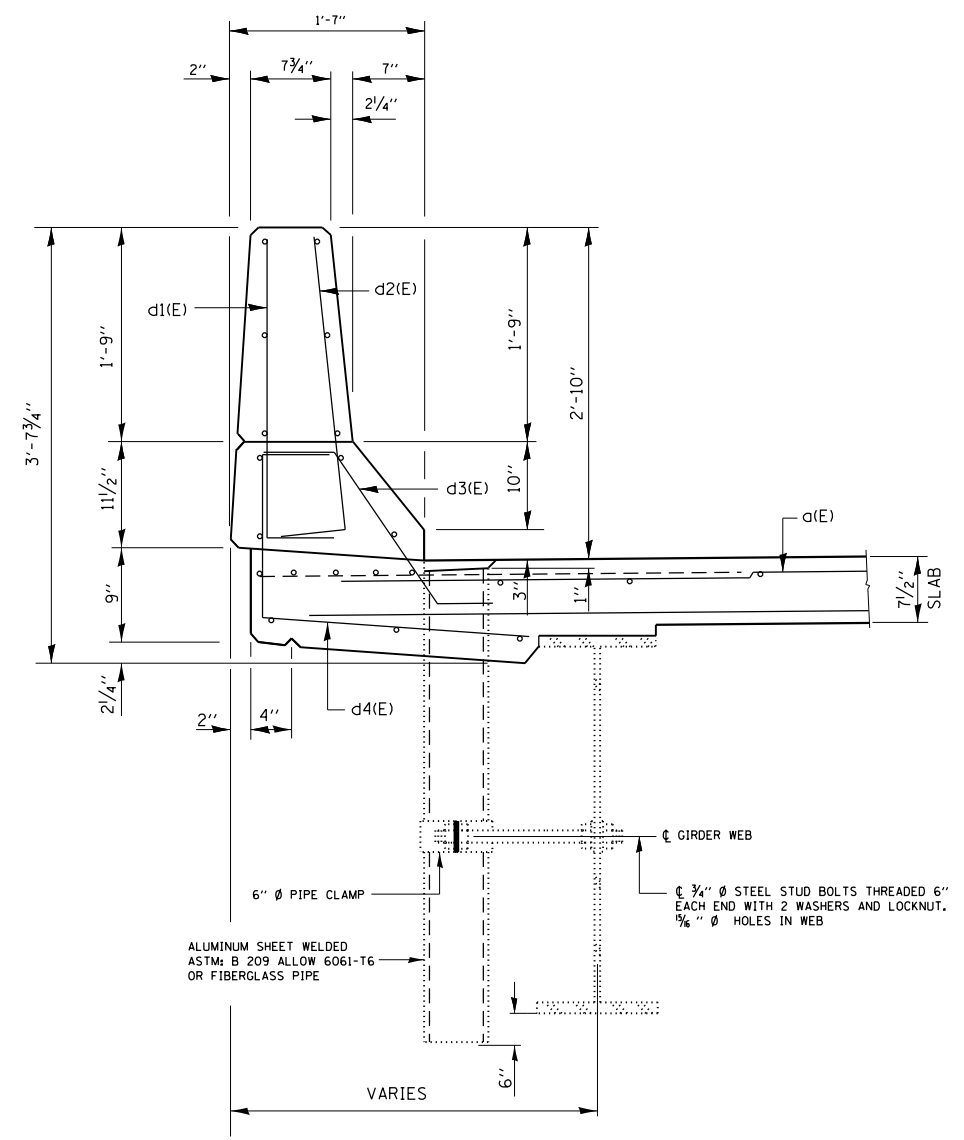
NOTE:
REATTACH RAIL POST. THE CONTRACTOR MUST VERIFY LOCATIONS AND SIZES OF EXISTING HOLES PRIOR TO ORDERING 3/4\"/>

LEGEND:
[Hatched Area] HATCHED AREA INDICATES CONCRETE REMOVAL

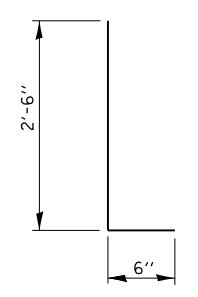
FILE NAME =	USER NAME = rothjp	DESIGNED - MVT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 83 OVER CHICAGO SANITARY SHIP CANAL WEST PARAPET DETAILS S.N. 016-0425			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom.dot.illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\Structure\Drawings\Design\0425.dgn		CHECKED - MJA	REVISED -		344	2018-139-BR	COOK	54	29			
Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -		CONTRACT NO. 62H71			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 3/9/2020				SCALE:	SHEET 10 OF 29 SHEETS	STA.	TO STA.				



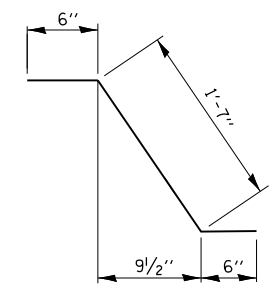
SECTION AT EAST PARAPET (EXISTING)



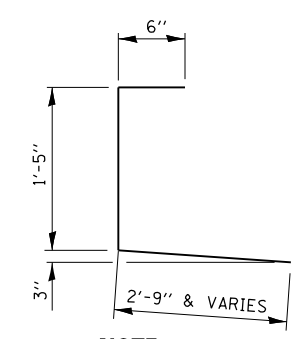
SECTION AT EAST PARAPET (PROPOSED)



d1(E) AND d2(E) BARS



d3(E) BAR

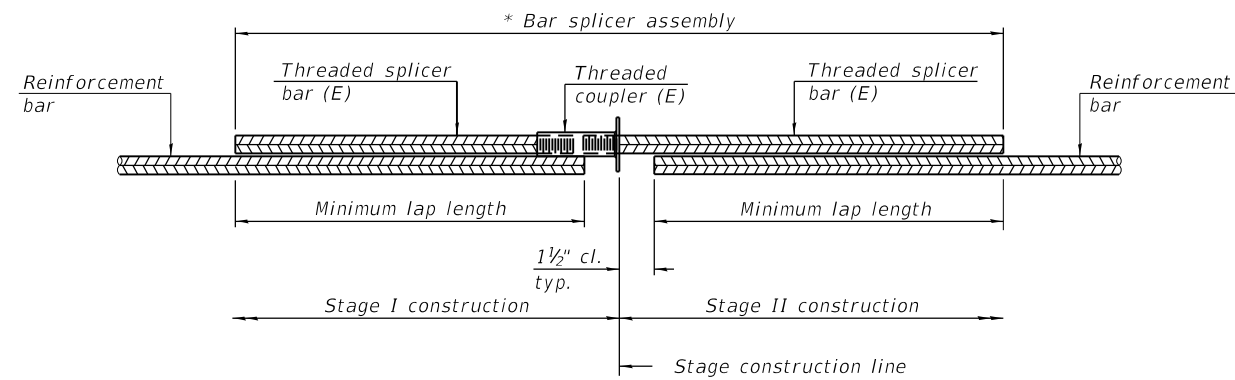


NOTE:
CUT TO FIT IN THE FIELD

d4(E) BAR

LEGEND:
 HATCHED AREA INDICATES CONCRETE REMOVAL

FILE NAME =	USER NAME = rothjp	DESIGNED - MVT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 83 OVER CHICAGO SANITARY SHIP CANAL EAST PARAPET DETAILS S.N. 016-0425			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\Struct\Drawings\Design\016-0425.dgn		CHECKED - MJA	REVISED -		344	2018-139-BR	COOK	54	30			
Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -		CONTRACT NO. 62H71							
	PLOT DATE = 3/9/2020		REVISED -		ILLINOIS FED. AID PROJECT							
				SCALE:	SHEET 11	OF 29 SHEETS	STA.	TO STA.				

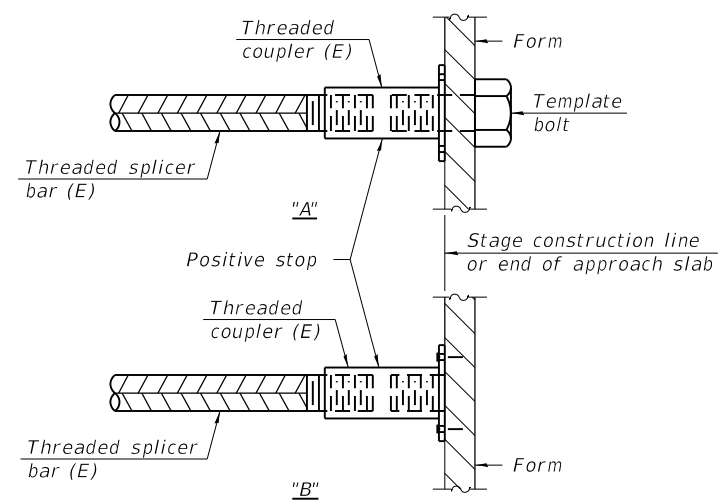


STANDARD BAR SPLICER ASSEMBLY PLAN
(All components shall be provided from one supplier)

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

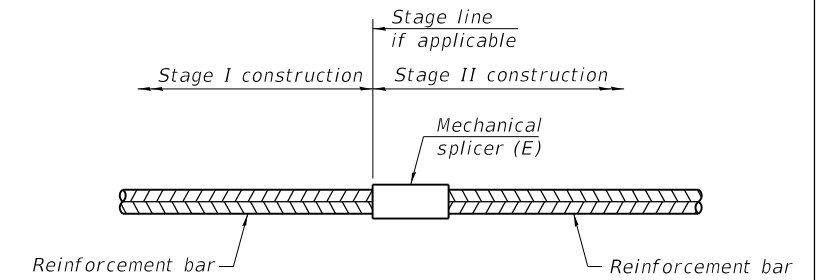
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
N. Abut. and Pier 18	#5	28	3'-6"
Piers 3, 8, 13	#5	80	3'-6"



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:
 Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

1-1-2020

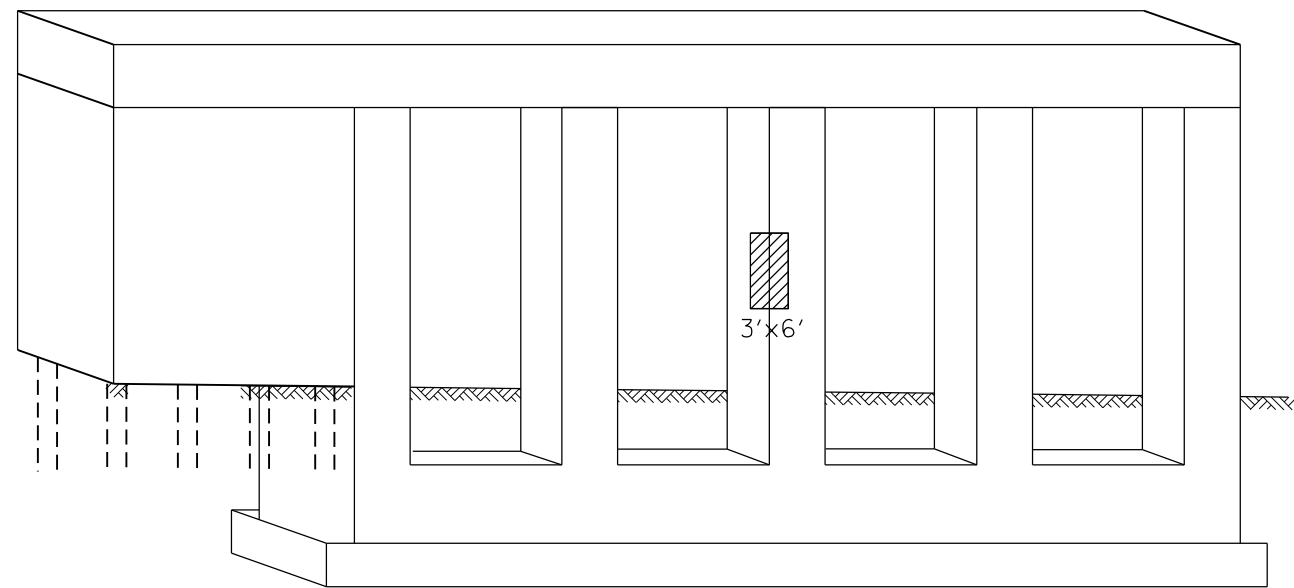
FILE NAME =	USER NAME = rothjp	DESIGNED = MVT	REVISED =
pw:\planroom.dot\illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\Structure\Drawings\Design\016\0425.dgn			REVISED =
	PLOT SCALE = 100.0000' / 1in.	CHECKED = MJA	REVISED =
	PLOT DATE = 3/6/2020	DATE	REVISED =

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

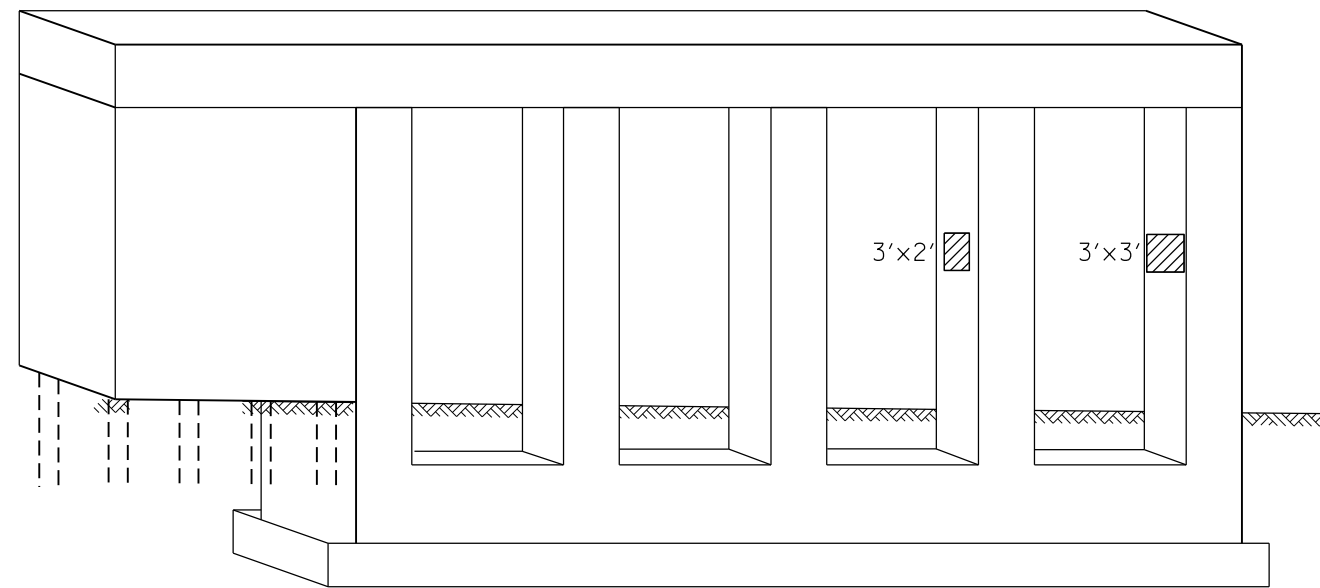
**IL ROUTE 83 OVER CHICAGO SANITARY SHIP CANAL
 BAR SPLICER ASSEMBLY
 S.N. 016-0425**

SCALE: SHEET 12 OF 29 SHEETS STA. TO STA.

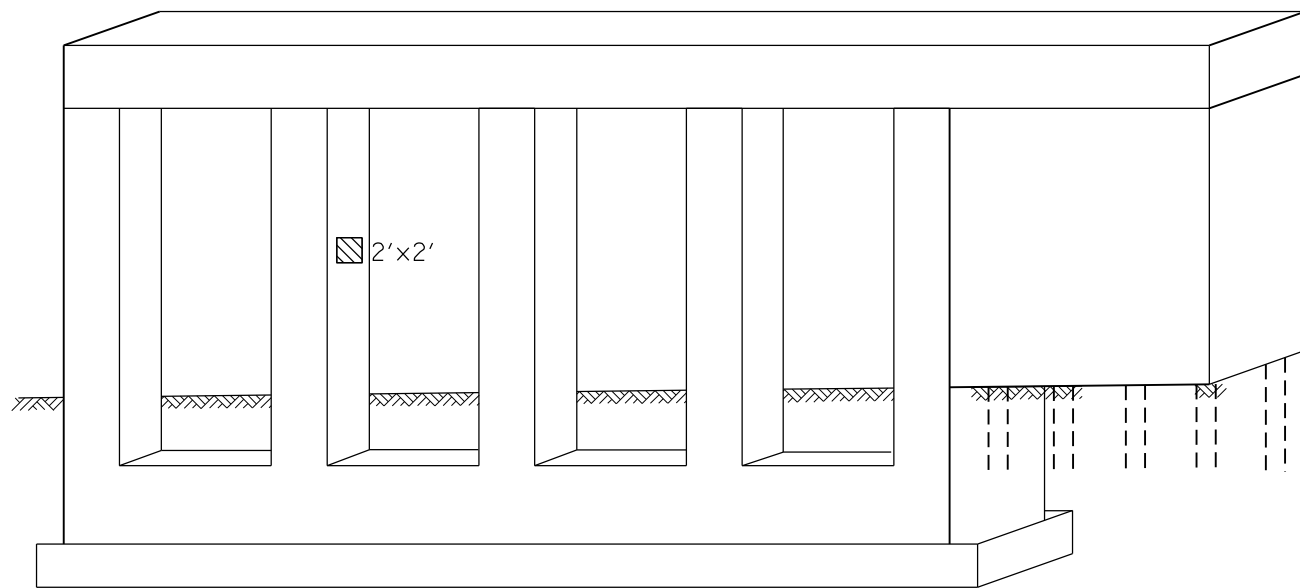
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	31
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H71	



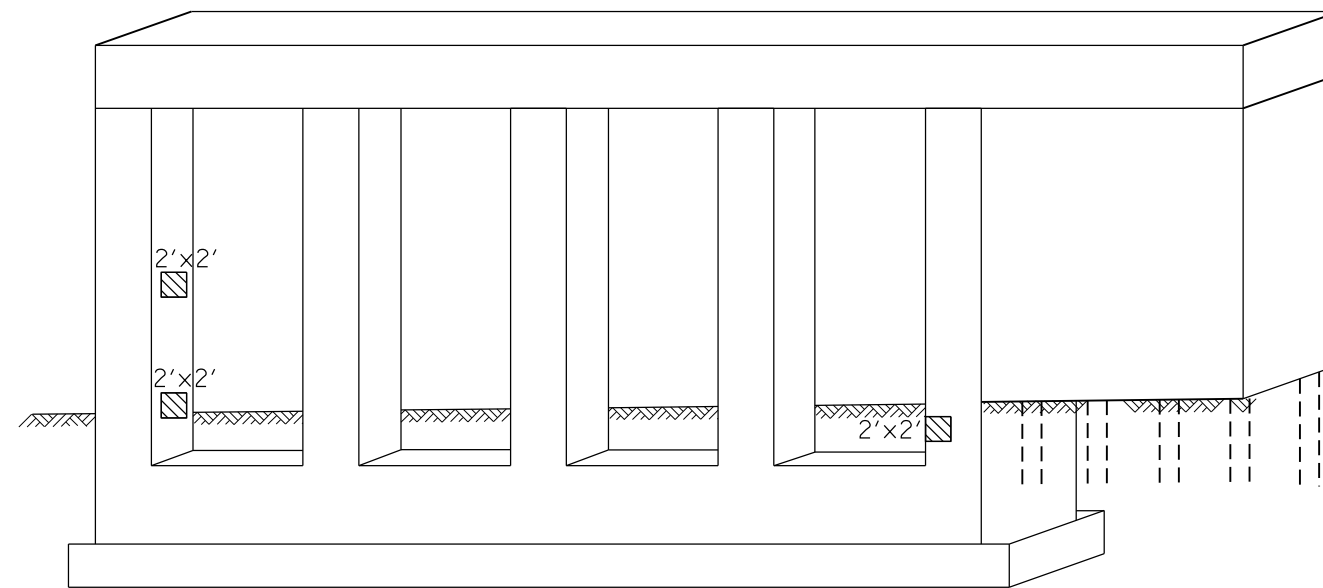
**PIER 1
NORTH FACE**



**PIER 2
NORTH FACE**



**PIER 1
SOUTH FACE**



**PIER 2
SOUTH FACE**



STRUCTURAL REPAIR OF CONCRETE < 5"

**BILL OF MATERIALS
PIER 1 AND 2**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE DEPTH < 5"	SO.FT.	49

MODEL: Default
 FILE: \\nas01c01.pw01.honolulu.gov\pww01\Documents\DOT_Offices\Director_1\Projects\Struct1\CA0303a\Drawings\016-0125.dgn

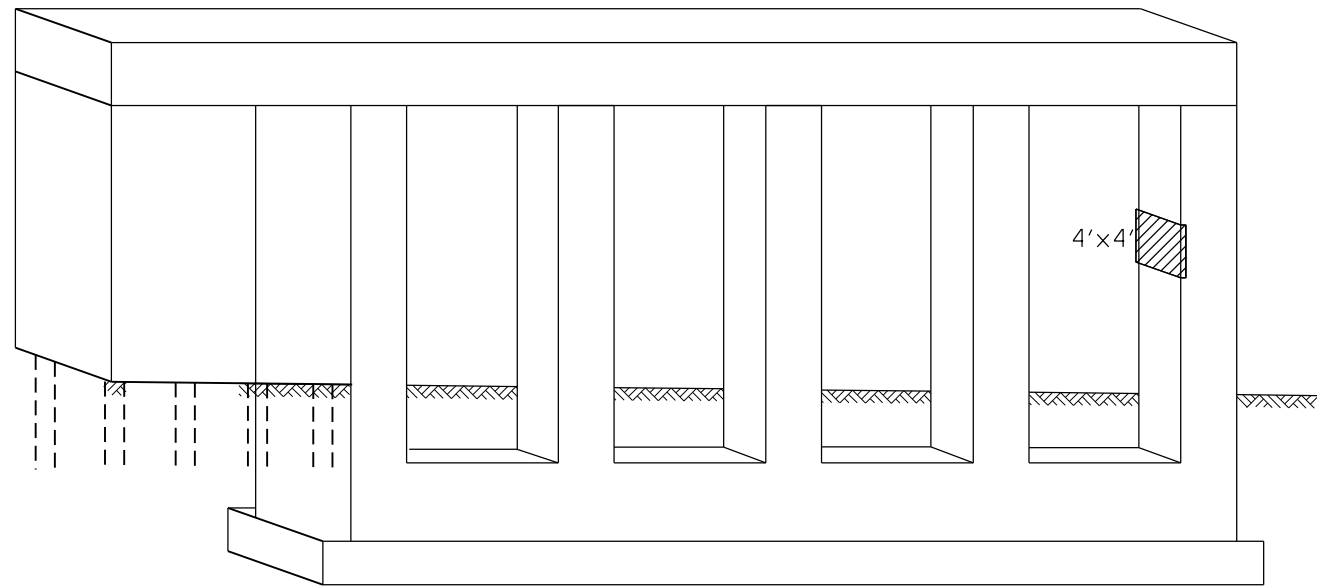
USER NAME = rothjp	DESIGNED - MVT	REVISED -
	DRAWN - MVT	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJA	REVISED -
PLOT DATE = 1/31/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

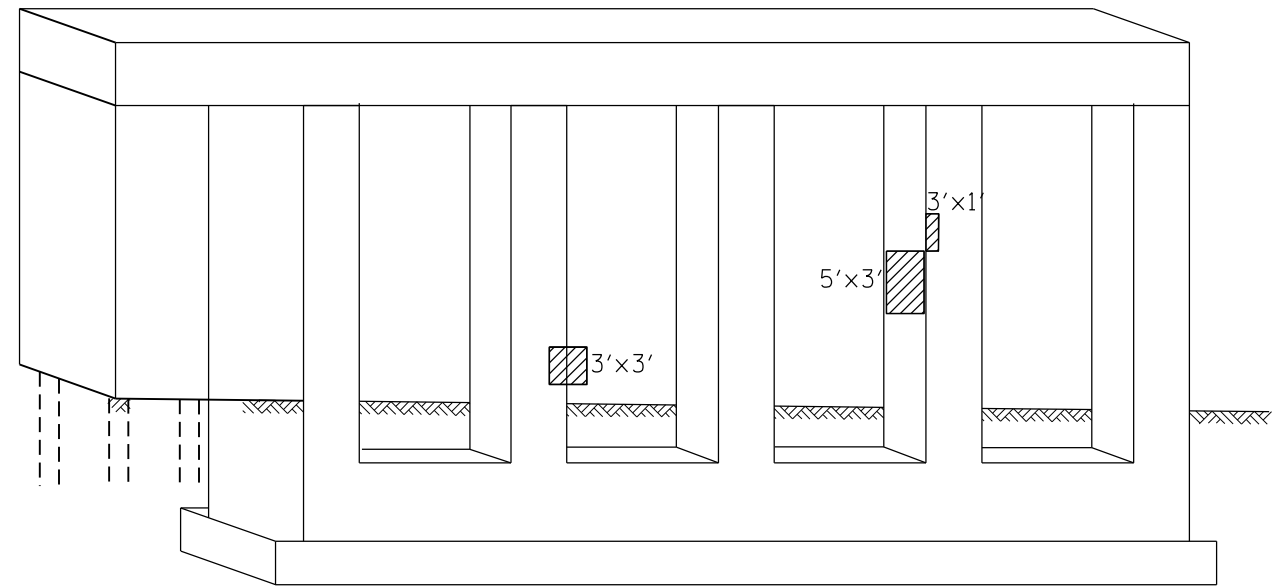
**IL ROUTE 83 OVER CHICAGO SANITARY SHIP CANAL
PIER 1 AND 2 REPAIR
S.N. 016-0425**

SCALE: SHEET 13 OF 29 SHEETS STA. TO STA.

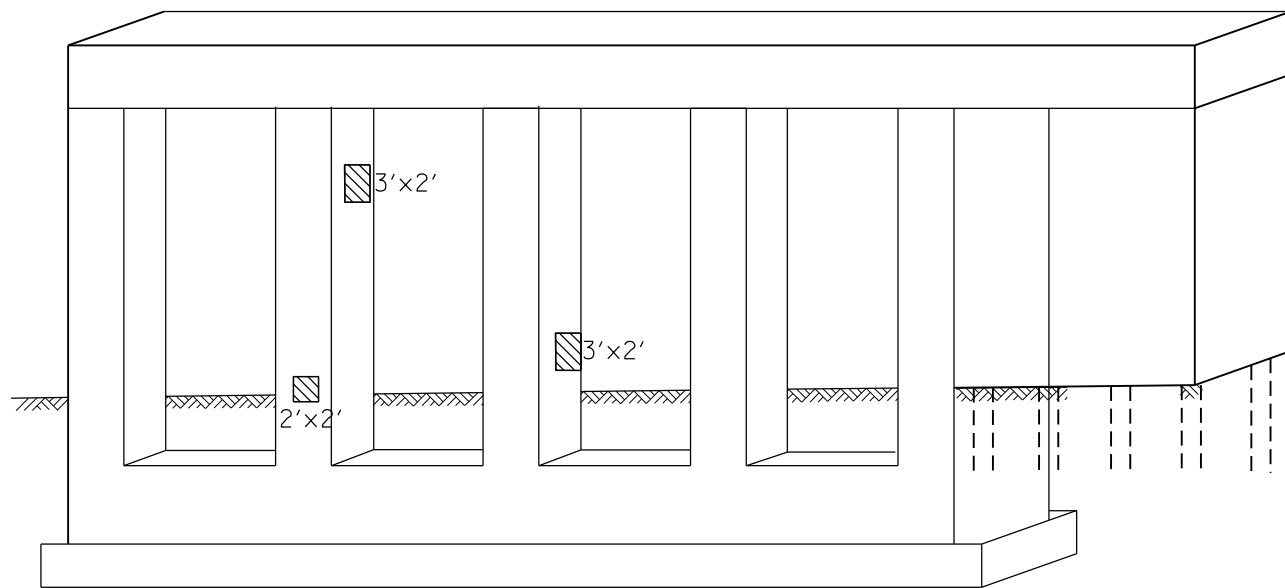
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	32
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H71	



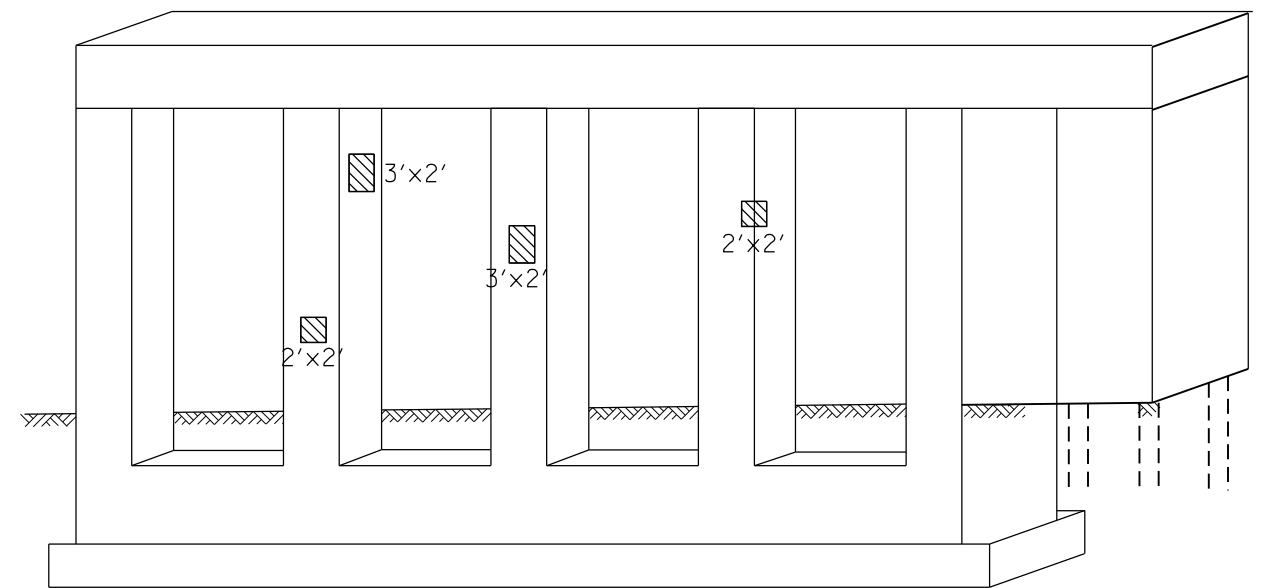
**PIER 3
NORTH FACE**




**PIER 4
NORTH FACE**



**PIER 3
SOUTH FACE**



**PIER 4
SOUTH FACE**

 STRUCTURAL REPAIR OF CONCRETE < 5"

**BILL OF MATERIALS
PIER 3 AND 4**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE DEPTH < 5"	SO.FT.	79

MODEL: Default
 FILE: Model: p:\pub\harron\m.d\illinois.gov\PWIDOT\Documents\DOT_Offices\District_1\Projects\Struct1\CAD\Drawings\016-0425.dgn

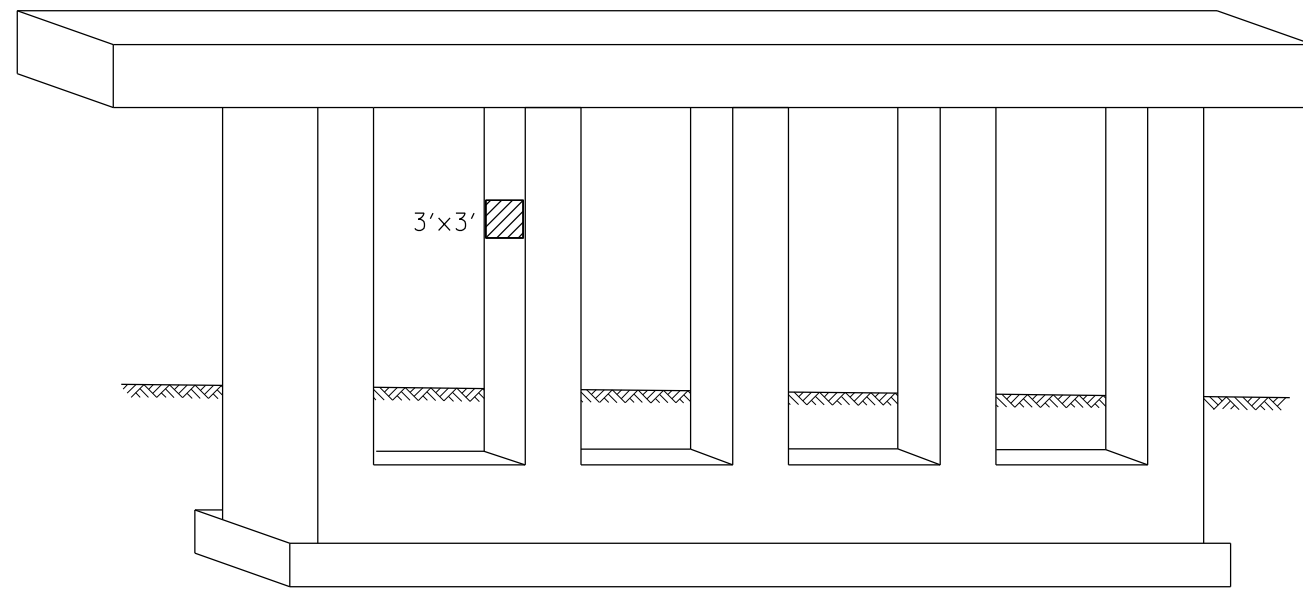
USER NAME = rothjp	DESIGNED - MVT	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - MVT	REVISED -
PLOT DATE = 1/31/2020	CHECKED - MJA	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

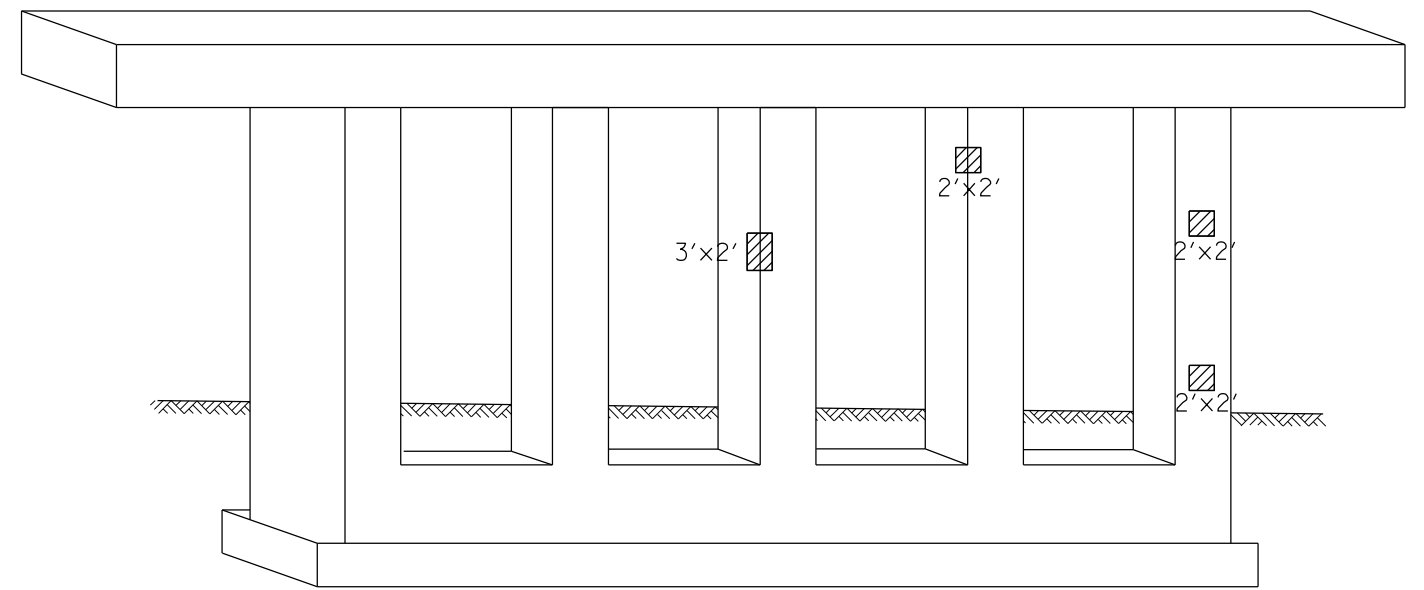
**IL ROUTE 83 OVER CHICAGO SANITARY SHIP CANAL
PIER 3 AND 4 REPAIR
S.N. 016-0425**

SCALE: SHEET 14 OF 29 SHEETS STA. TO STA.

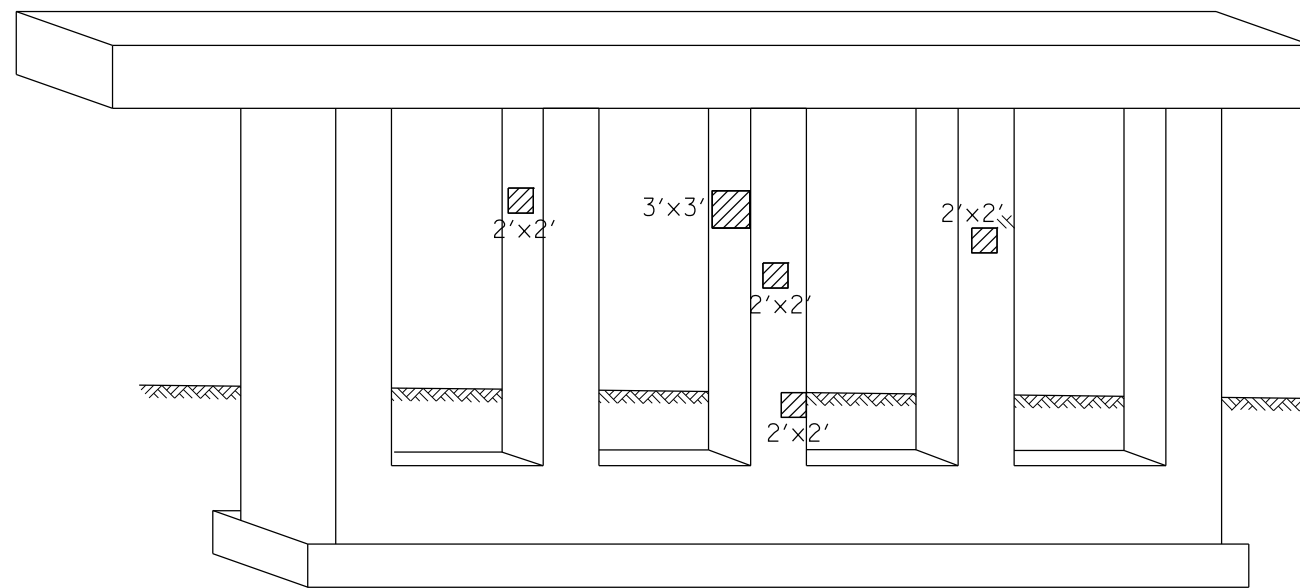
F.A.P. RTE. 344	SECTION 2018-139-BR	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 33
			CONTRACT NO. 62H71	
		ILLINOIS FED. AID PROJECT		



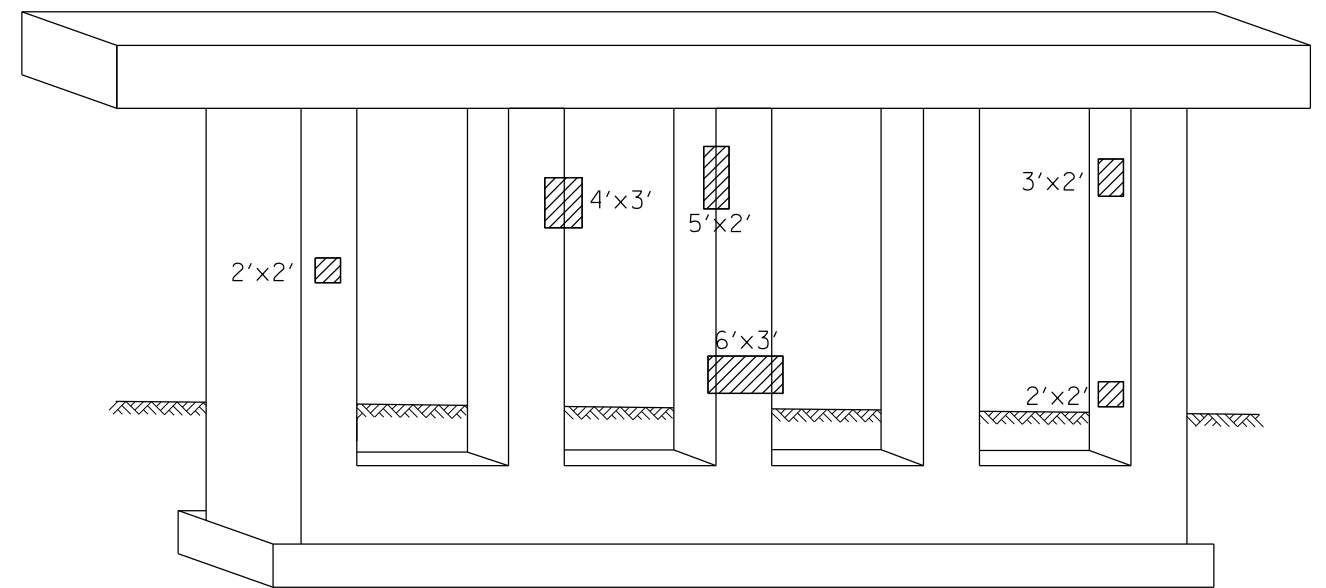
**PIER 5
NORTH FACE**



**PIER 6
NORTH FACE**



**PIER 5
SOUTH FACE**



**PIER 6
SOUTH FACE**

STRUCTURAL REPAIR OF CONCRETE < 5"

**BILL OF MATERIALS
PIER 5 AND 6**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE DEPTH < 5"	SO.FT.	106

MODEL: Default
 FILE: \\hpc101\pub\hpc\room\ada\illinois.gov\PHWDOT\Documents\DOT_Offices\District_1\Projects\Struct1\CA030\Drawings\016-0125.dgn

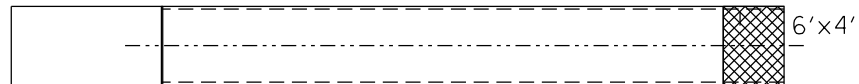
USER NAME = rothjp	DESIGNED - MVT	REVISED -
	DRAWN - MVT	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJA	REVISED -
PLOT DATE = 1/31/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

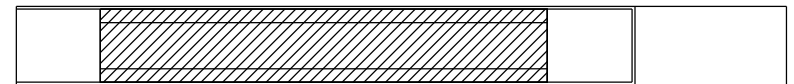
**IL ROUTE 83 OVER CHICAGO SANITARY SHIP CANAL
PIER 5 AND 6 REPAIR
S.N. 016-0425**

SCALE: SHEET 15 OF 29 SHEETS STA. TO STA.

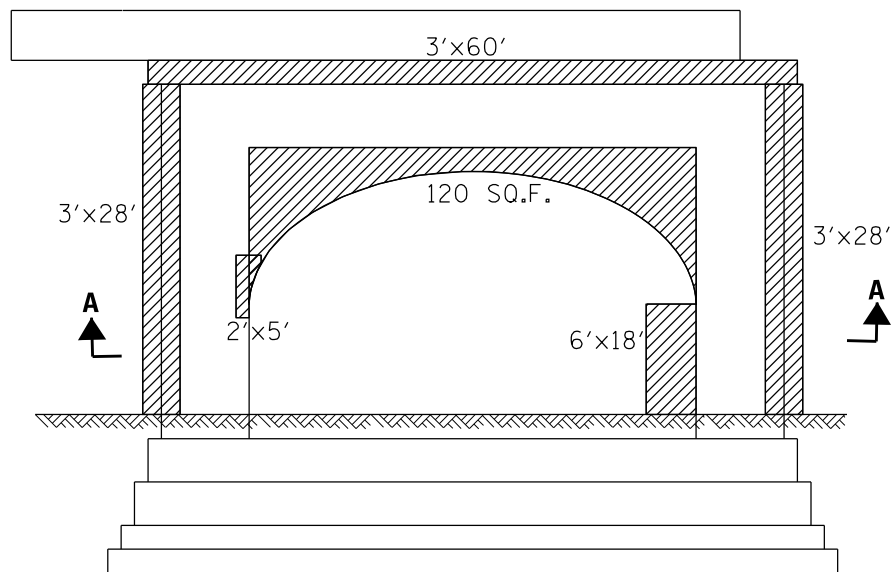
F.A.P. RTE. 344	SECTION 2018-139-BR	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 34
CONTRACT NO. 62H71			ILLINOIS FED. AID PROJECT	



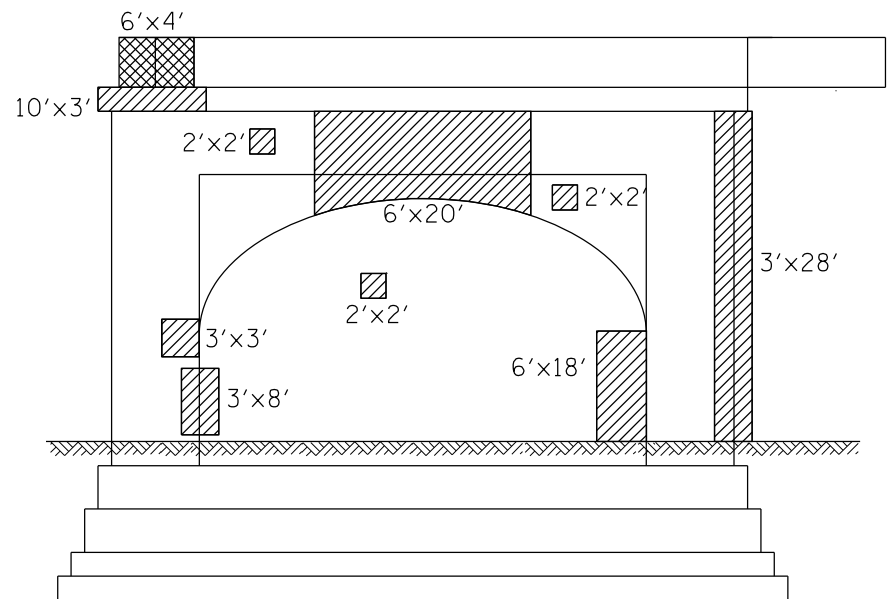
TOP PLAN



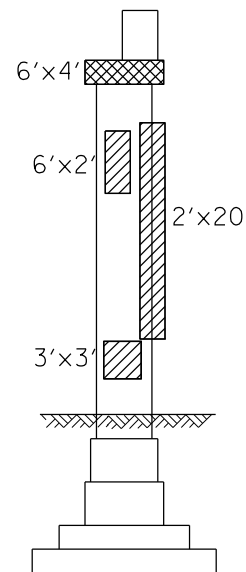
SECTION A-A



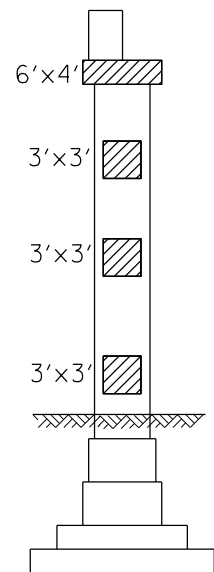
SOUTH FACE



NORTH FACE



**END ELEVATION
(LOOKING WEST)**



**END ELEVATION
(LOOKING EAST)**

- STRUCTURAL REPAIR OF CONCRETE > 5"
- STRUCTURAL REPAIR OF CONCRETE < 5"

**BILL OF MATERIALS
PIER 7**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE DEPTH ≤ 5"	SO.FT.	1271
STRUCTURAL REPAIR OF CONCRETE DEPTH > 5"	SO.FT.	48

MODEL: Default
 FILE: Model_Pier7.dwg
 PROJECT: I:\Projects\Struct\1\CA0000\Sheet\016.dwg
 DATE: 1/31/2020

USER NAME = rothjp	DESIGNED - MVT	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - MVT	REVISED -
PLOT DATE = 1/31/2020	CHECKED - MJA	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

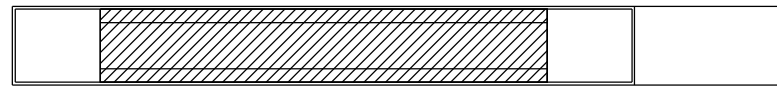
**IL ROUTE 83 OVER CHICAGO SANITARY SHIP CANAL
PIER 7 REPAIR
S.N. 016-0425**

SCALE: SHEET 16 OF 29 SHEETS STA. TO STA.

F.A.P. RTE. 344	SECTION 2018-139-BR	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 35
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H71	

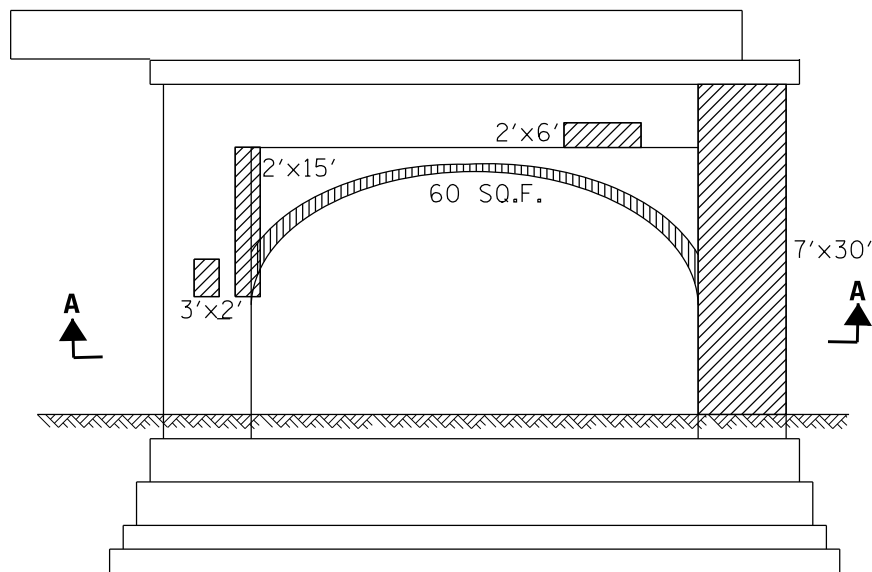


TOP PLAN

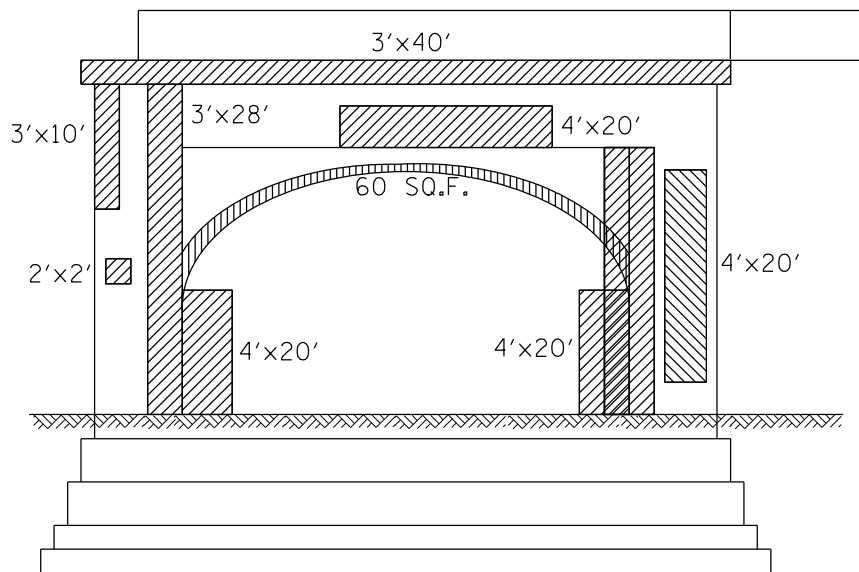


7'x40'

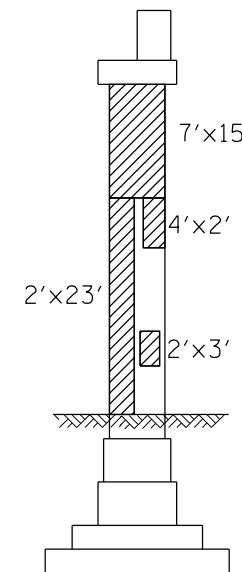
SECTION A-A



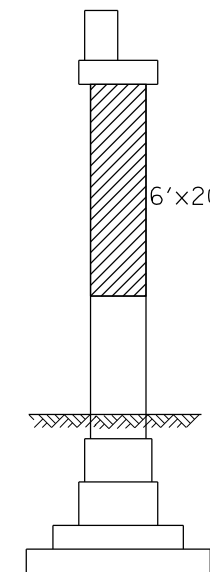
SOUTH FACE



NORTH FACE



**END ELEVATION
(LOOKING WEST)**



**END ELEVATION
(LOOKING EAST)**

 STRUCTURAL REPAIR OF CONCRETE < 5"

**BILL OF MATERIALS
PIER 8**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE DEPTH < 5"	SO.FT.	1391

MODEL: Default
 FILE: Model: P:\pub\baron.com.dwg
 PLOT DATE = 1/31/2020

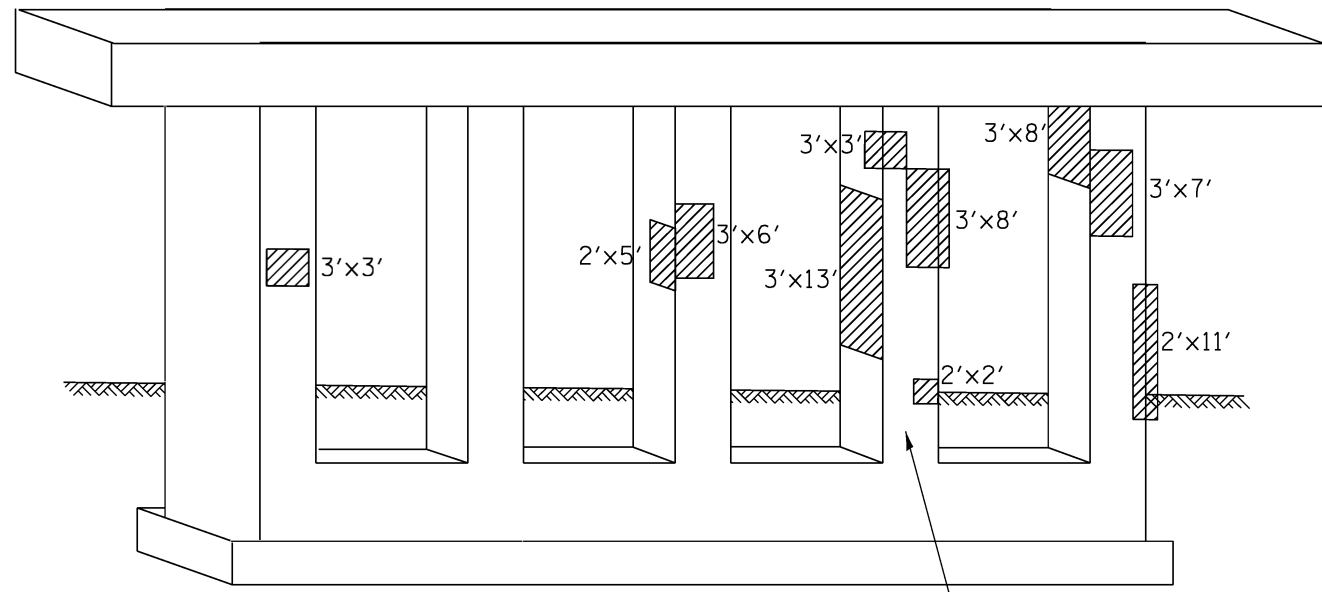
USER NAME = rothjp	DESIGNED - MVT	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - MVT	REVISED -
PLOT DATE = 1/31/2020	CHECKED - MJA	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 83 OVER CHICAGO SANITARY SHIP CANAL
PIER 8 REPAIR
S.N. 016-0425**

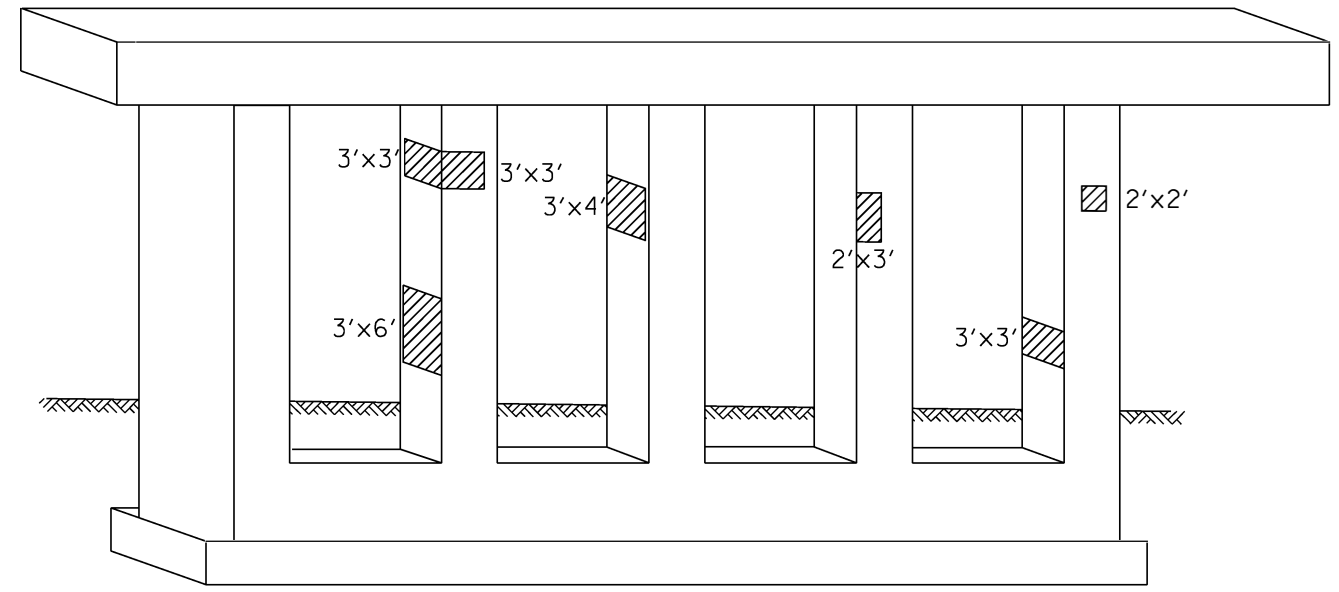
SCALE: SHEET 17 OF 29 SHEETS STA. TO STA.

F.A.P. RTE. 344	SECTION 2018-139-BR	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 36
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H71	

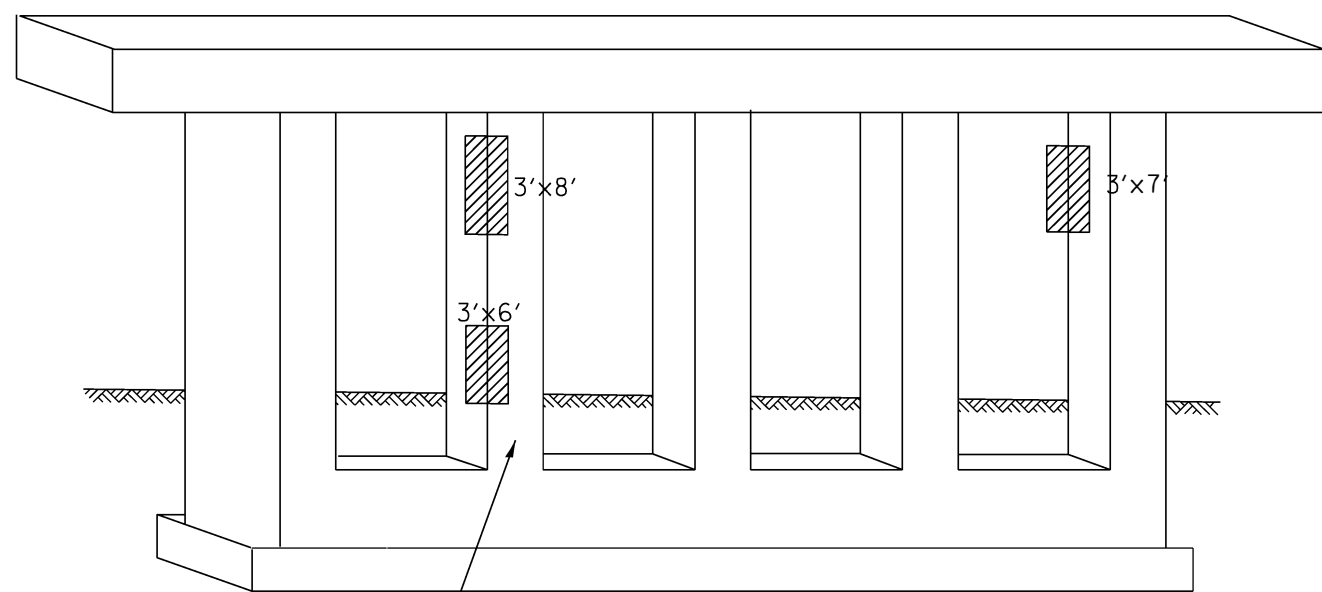


**PIER 9
NORTH FACE**

TEMPORARY
SHORING AND
CRIBBING

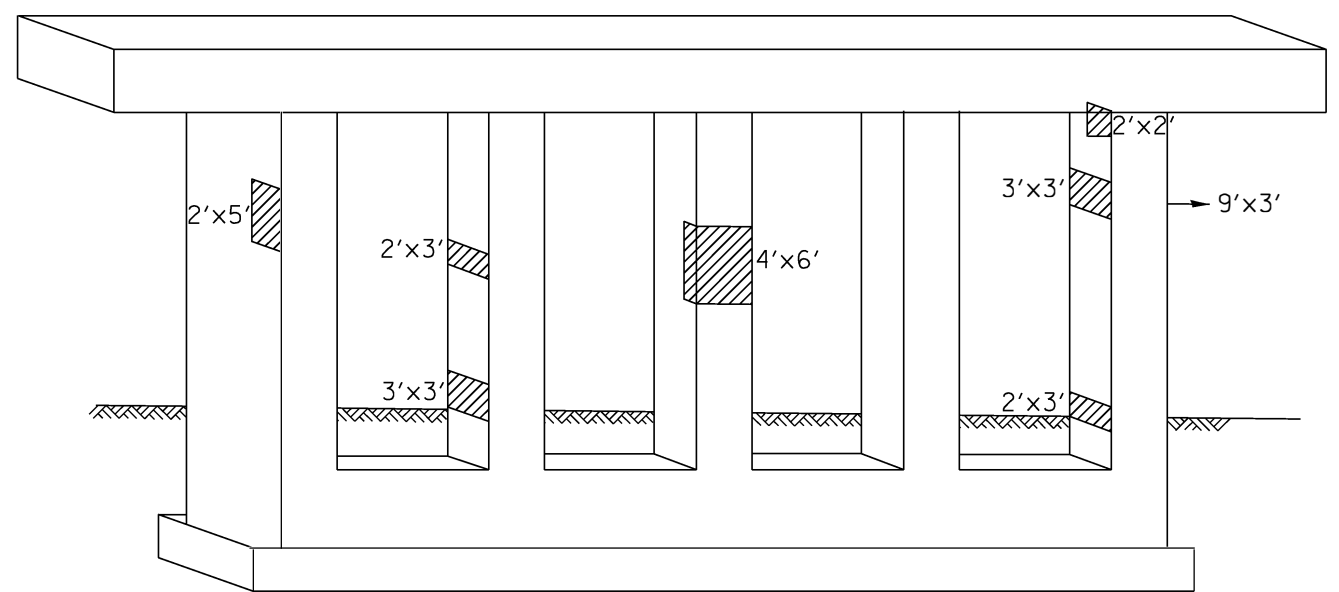


**PIER 10
NORTH FACE**



**PIER 9
SOUTH FACE**

TEMPORARY
SHORING AND
CRIBBING



**PIER 10
SOUTH FACE**

STRUCTURAL REPAIR OF CONCRETE ≤ 5"

**BILL OF MATERIALS
PIER 9 AND 10**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE DEPTH ≤ 5"	SO.FT.	762
TEMPORARY SHORING AND CRIBBING	EACH	2

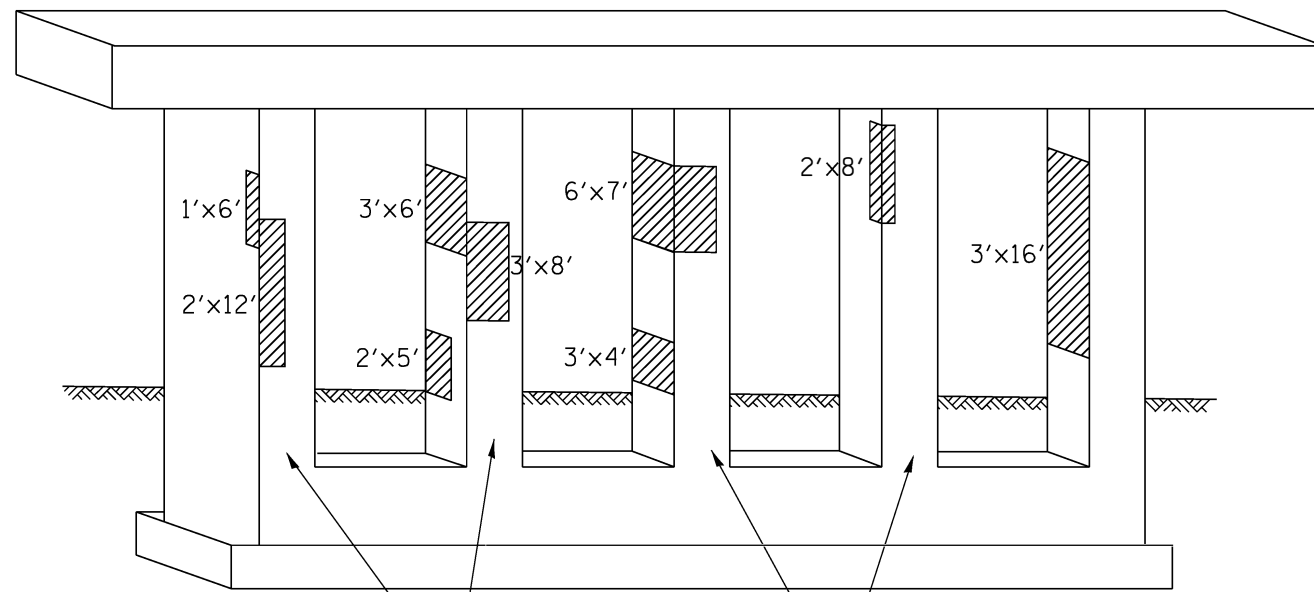
MODEL: Default
FILE: M:\MIS: p\uplanroom.dat:illinois.gov:PWIDOT\Documents\BIDT_Offices\District_1\Projects\Struct1\CAD\BabalDesign\016-0425.dgn

USER NAME = rothjp	DESIGNED - MVT	REVISED -
	DRAWN - MVT	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJA	REVISED -
PLOT DATE = 1/31/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 83 OVER CHICAGO SANITARY SHIP CANAL
PIER 9 AND 10 REPAIR
S.N. 016-0425**

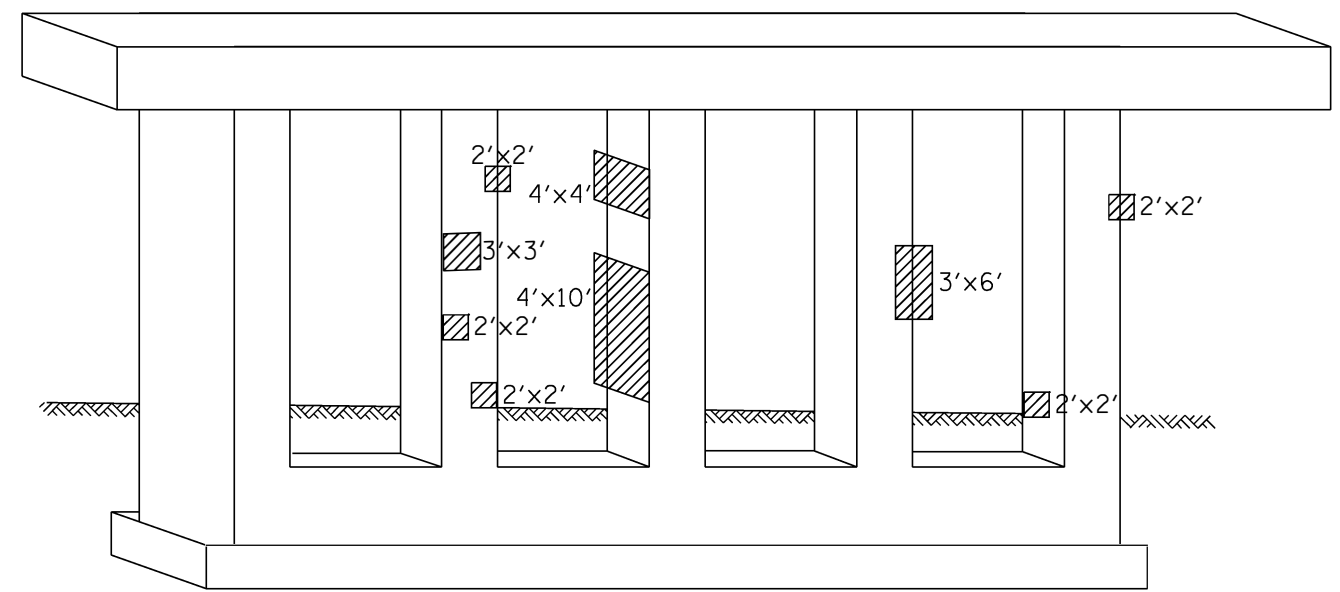
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	37
			CONTRACT NO. 62H71	
SCALE:		SHEET 18 OF 29 SHEETS	STA.	TO STA.
ILLINOIS FED. AID PROJECT				



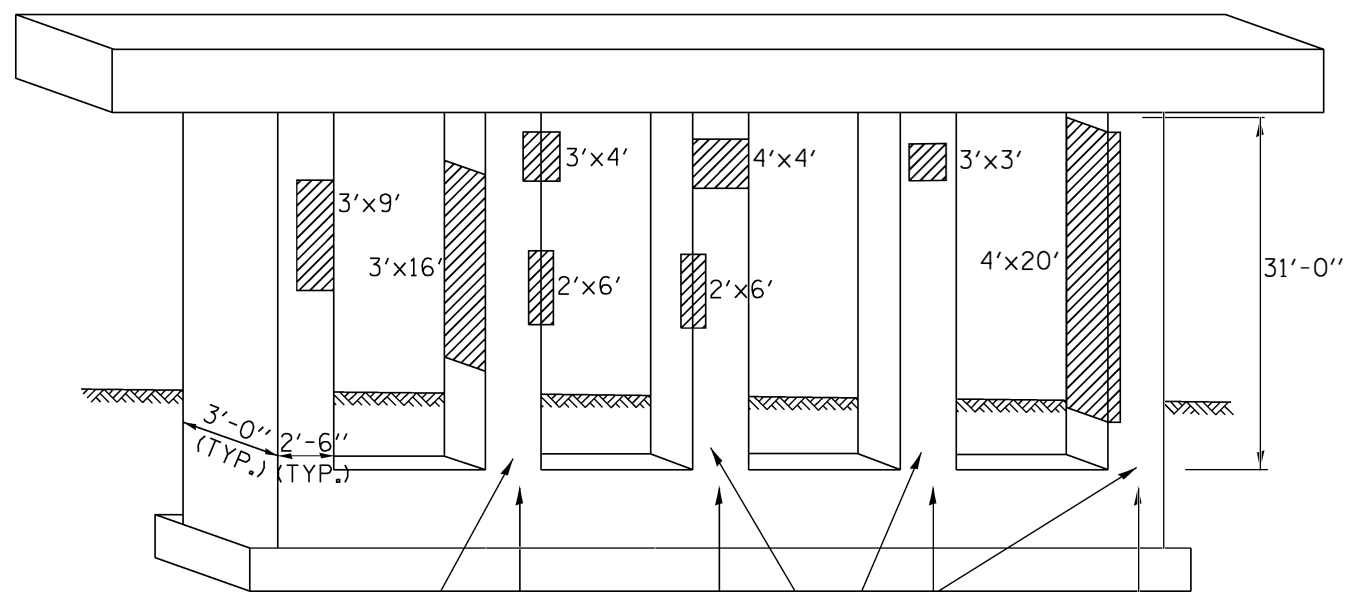
TEMPORARY SHORING AND CRIBBING

PIER 11 NORTH FACE

TEMPORARY SHORING AND CRIBBING



PIER 12 NORTH FACE



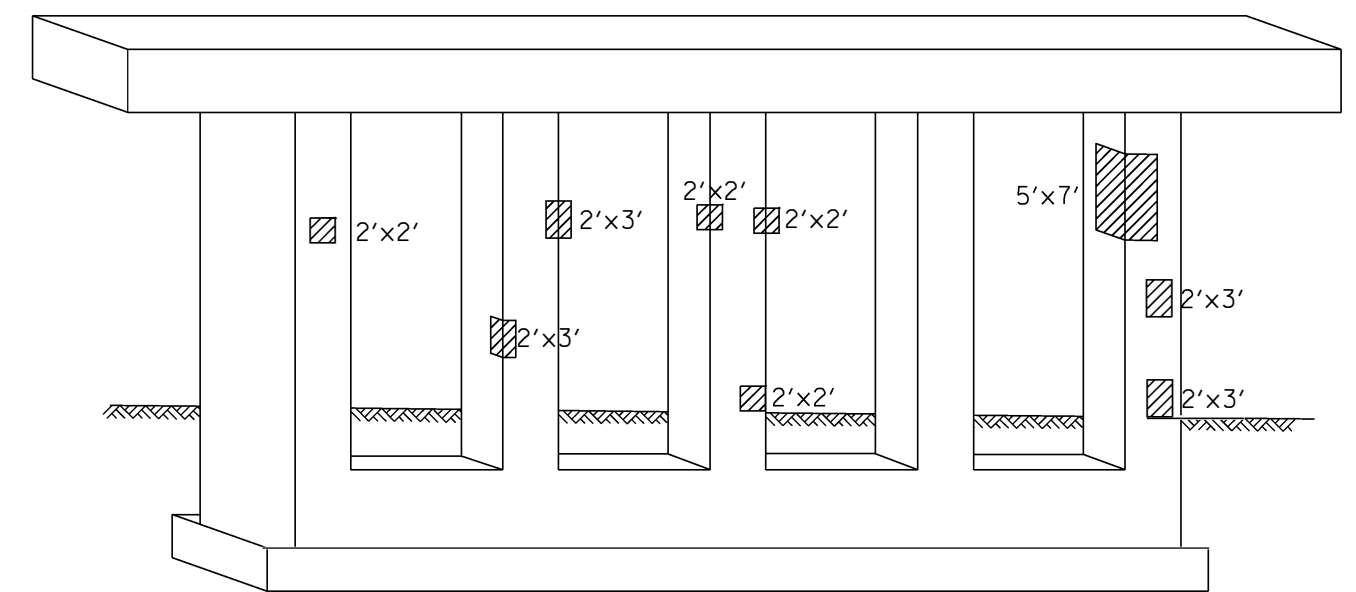
TEMPORARY SHORING AND CRIBBING

GROUTED FRP ENCASED REPAIR

TEMPORARY SHORING AND CRIBBING

STRUCTURAL REPAIR OF CONCRETE $\leq 5''$

PIER 11 SOUTH FACE



PIER 12 SOUTH FACE

STRUCTURAL REPAIR OF CONCRETE $\leq 5''$

**BILL OF MATERIALS
PIER 11 AND 12**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE DEPTH $\leq 5''$	SO.FT.	1690
TEMPORARY SHORING AND CRIBBING	EACH	8
GROUTED FRP ENCASED REPAIR	FOOT	62

MODEL: Default
 FILE: M:\MIS: p\uplanroom.dat\illinois.gov\PWIDOT\Documents\DOT_Offices\District_1\Projects\Struct1\CAD\Drawings\016-0425.dgn

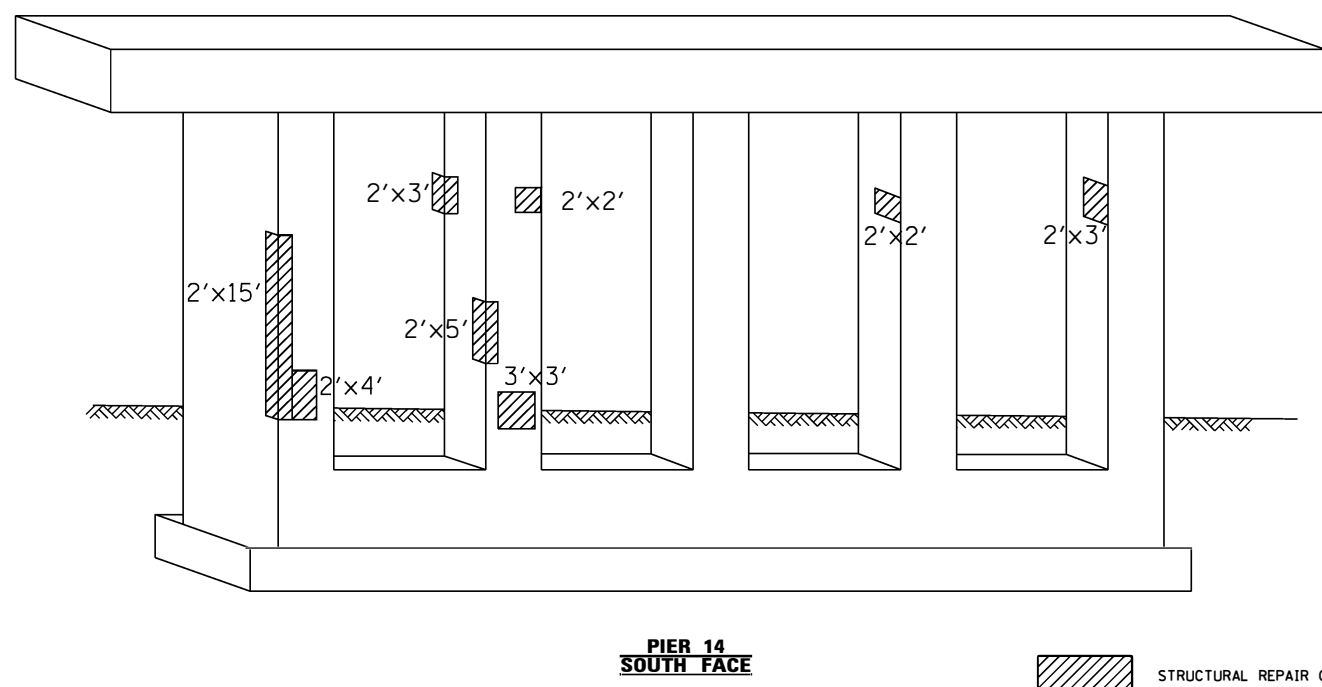
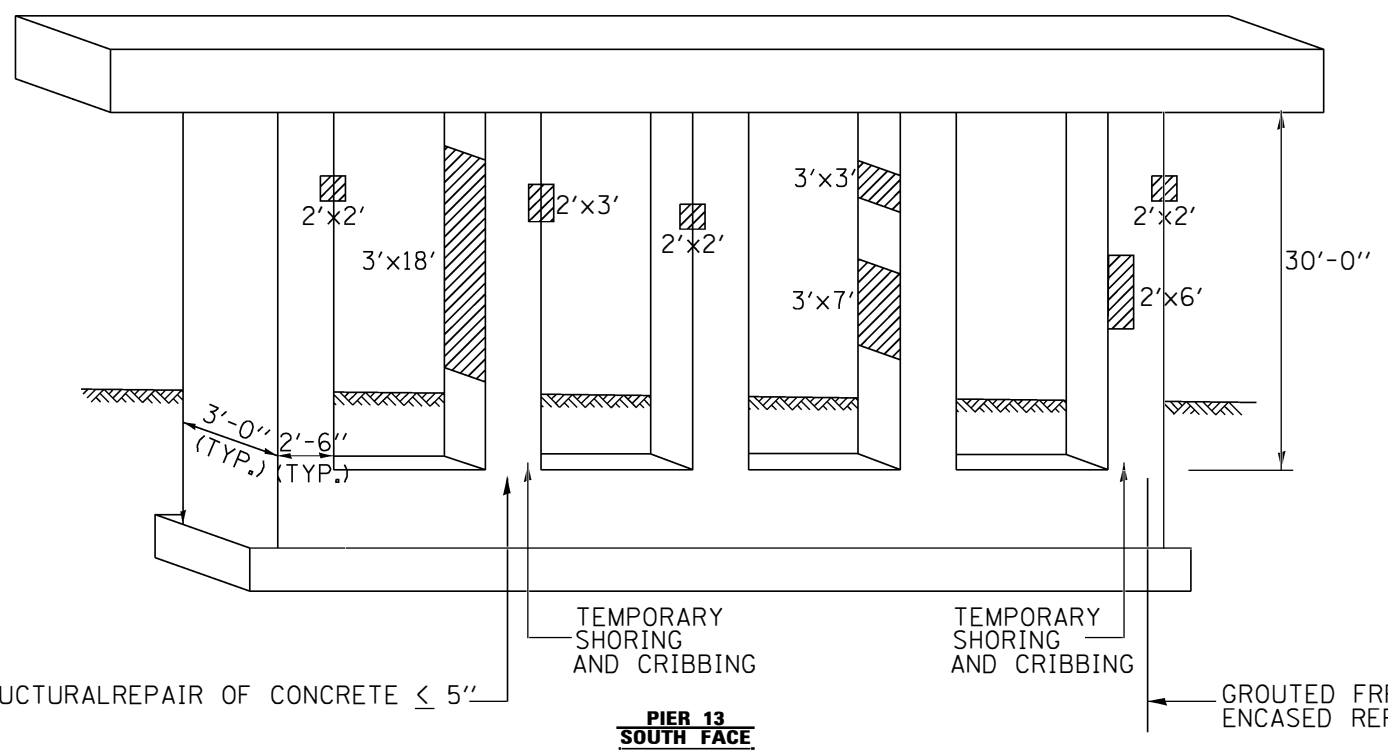
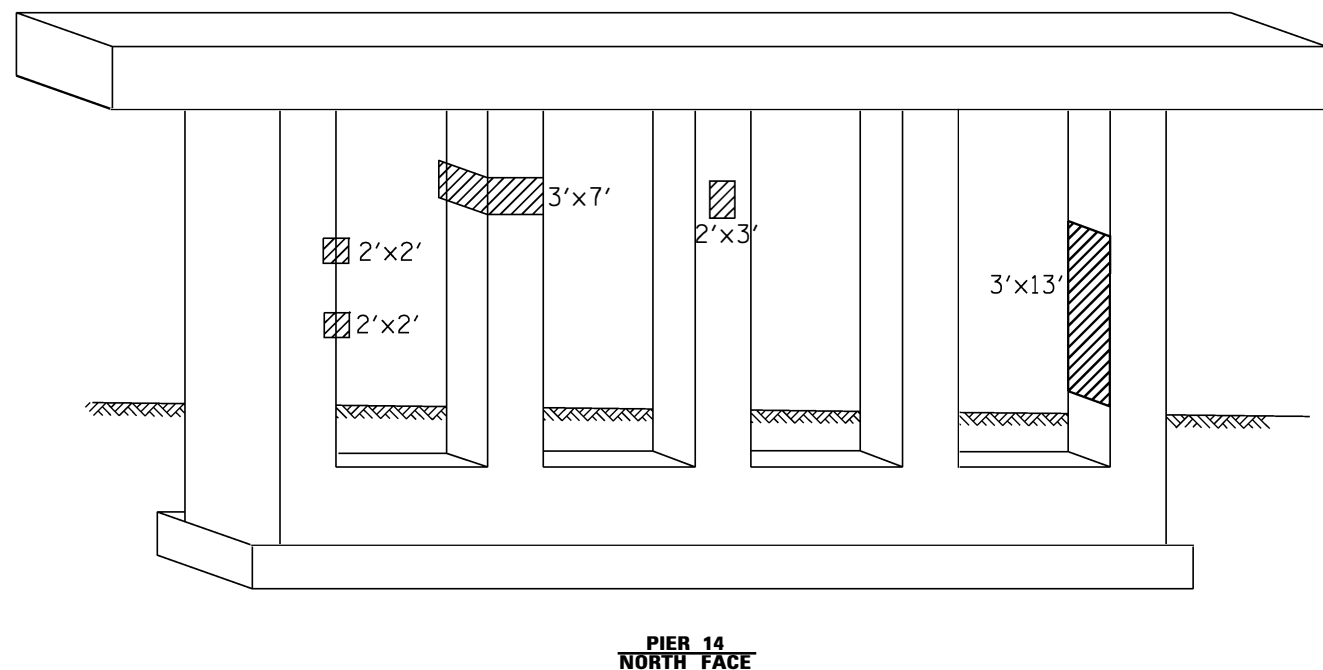
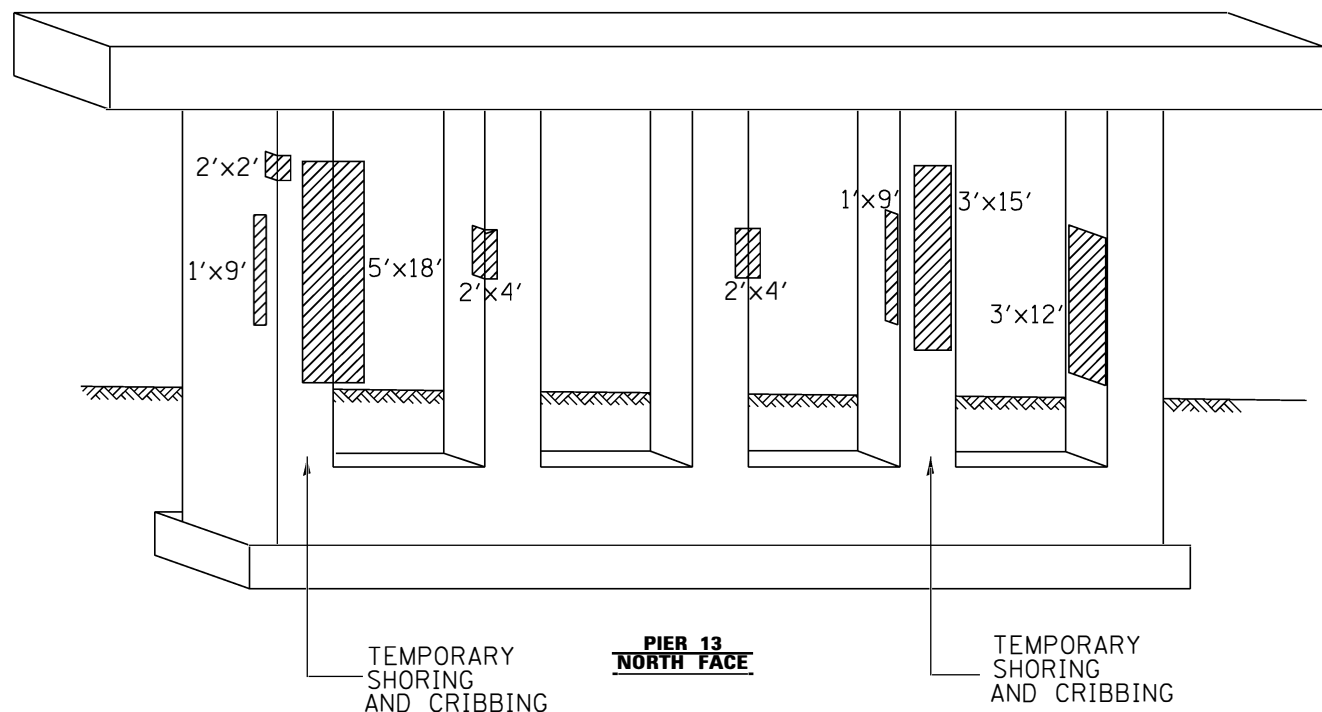
USER NAME = rothjp	DESIGNED - MVT	REVISED -
	DRAWN - MVT	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJA	REVISED -
PLOT DATE = 3/6/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 83 OVER CHICAGO SANITARY SHIP CANAL
PIER 11 AND 12 REPAIR
S.N. 016-0425**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	38
CONTRACT NO. 62H71			ILLINOIS FED. AID PROJECT	

SCALE: SHEET 19 OF 29 SHEETS STA. TO STA.



STRUCTURAL REPAIR OF CONCRETE < 5"

**BILL OF MATERIALS
PIER 13 AND 14**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE DEPTH < 5"	SO.FT.	1040
STRUCTURAL REPAIR OF CONCRETE DEPTH > 5"	SO.FT.	17
TEMPORARY SHORING AND CRIBBING	EACH	4
GROUTED FRP ENCASED REPAIR	FOOT	30

MODEL: Default
 FILE: M:\MIS_Plan\planroom.dwg
 I:\Projects\Struct1\CAD\Drawings\016-0425.dgn

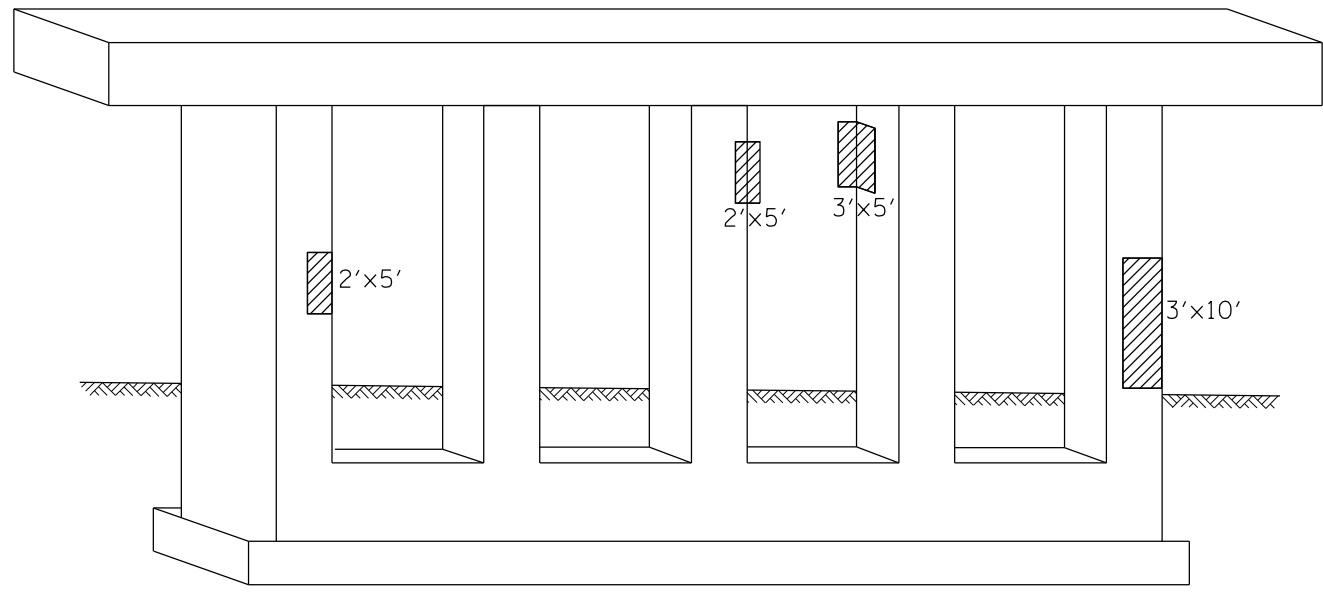
USER NAME = rothjp	DESIGNED - MVT	REVISED -
	DRAWN - MVT	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJA	REVISED -
PLOT DATE = 3/6/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

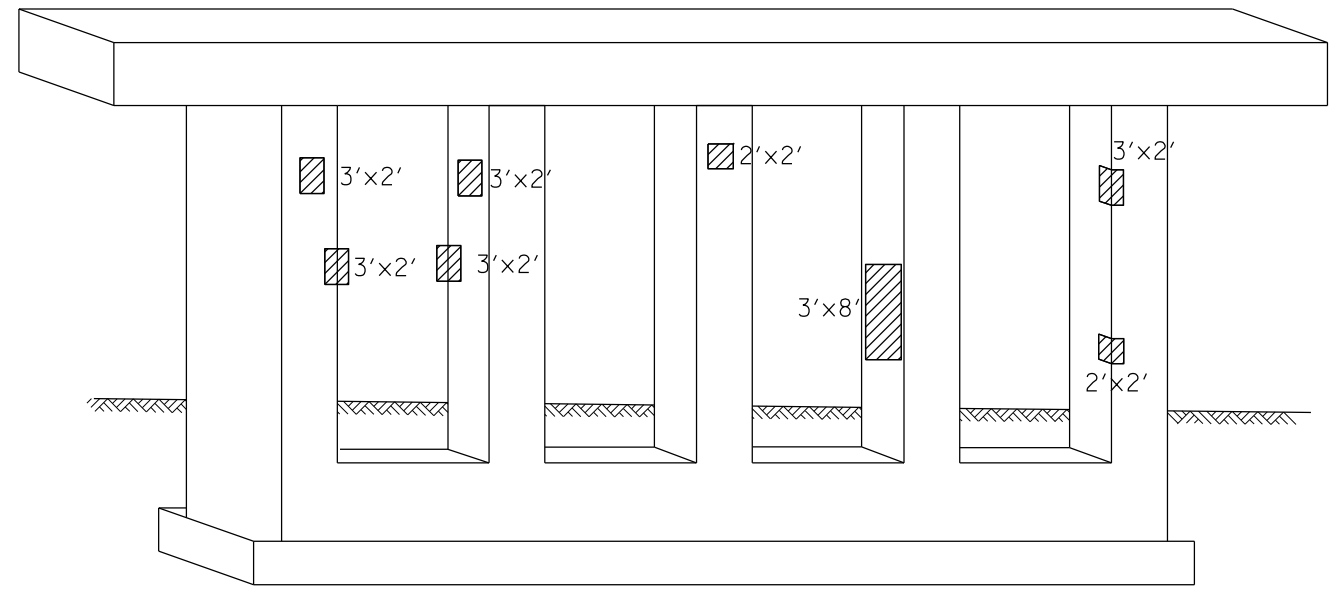
**IL ROUTE 83 OVER CHICAGO SANITARY SHIP CANAL
PIER 13 AND 14 REPAIR
S.N. 016-0425**

SCALE: SHEET 20 OF 29 SHEETS STA. TO STA.

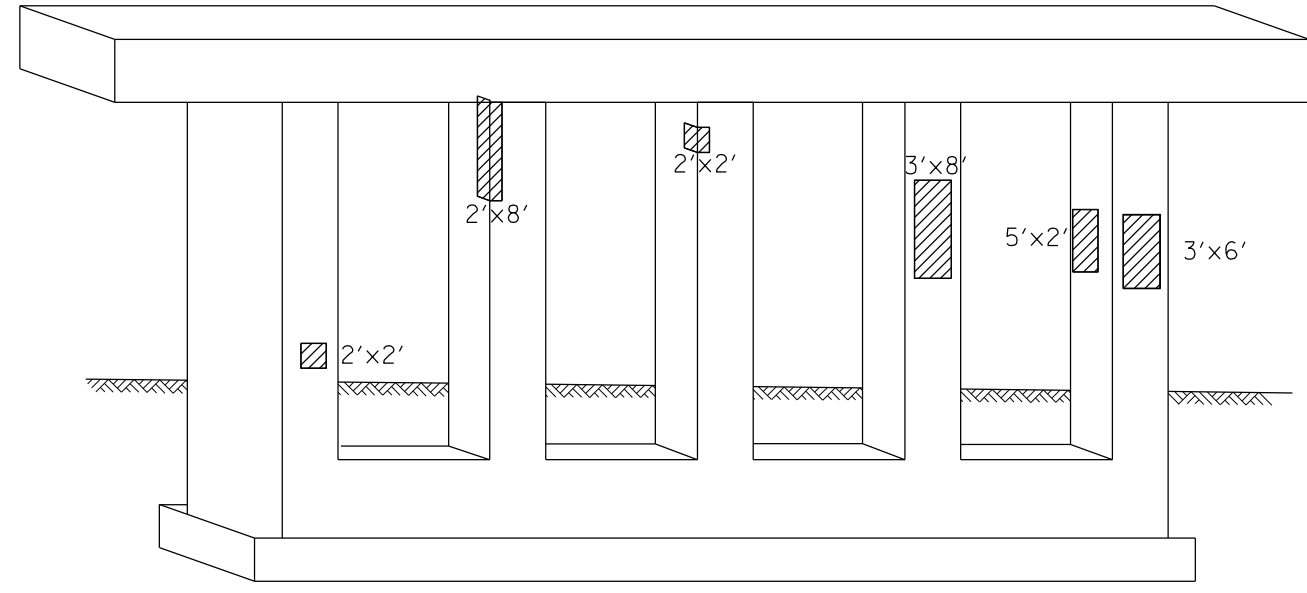
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	39
CONTRACT NO. 62H71			ILLINOIS FED. AID PROJECT	



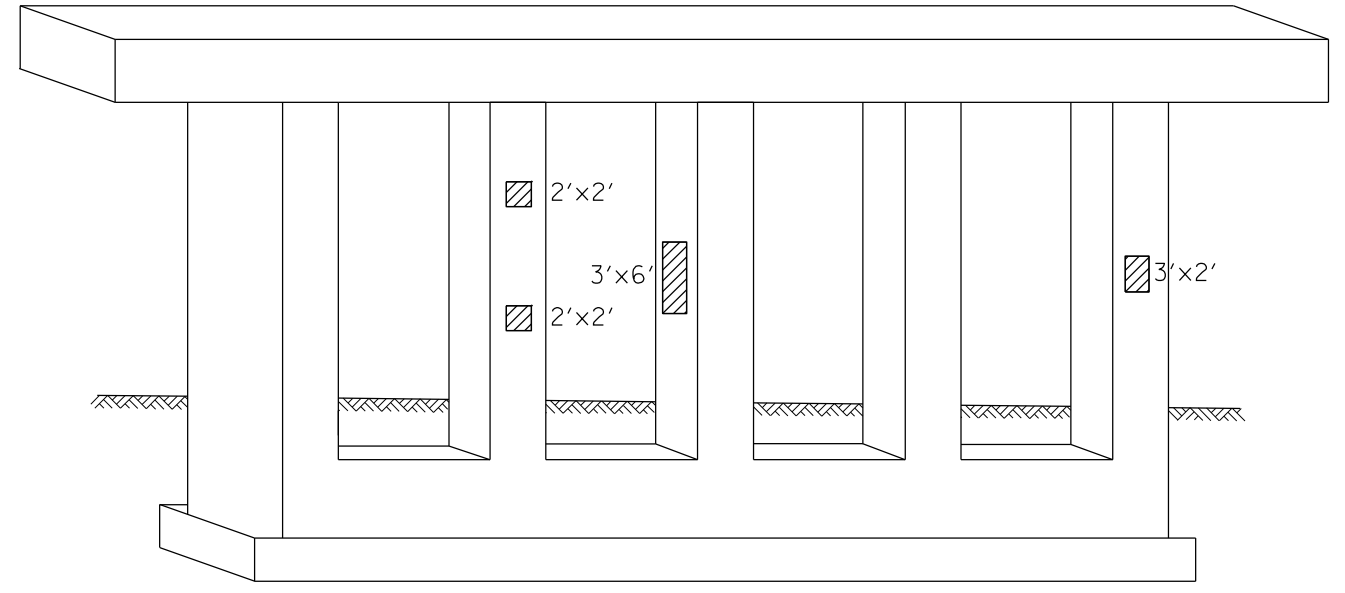
**PIER 15
NORTH FACE**




**PIER 16
NORTH FACE**



**PIER 15
SOUTH FACE**



**PIER 16
SOUTH FACE**

 STRUCTURAL REPAIR OF CONCRETE < 5"

**BILL OF MATERIALS
PIER 15 AND 16**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE DEPTH < 5"	SO.FT.	223

MODEL: Default
 FILE: \\nashville.pw.gov\pww\DOT\Documents\DOT - Offices\Bartlett - Projects\Struct1\CA0302\at\Design\16-0125.dgn

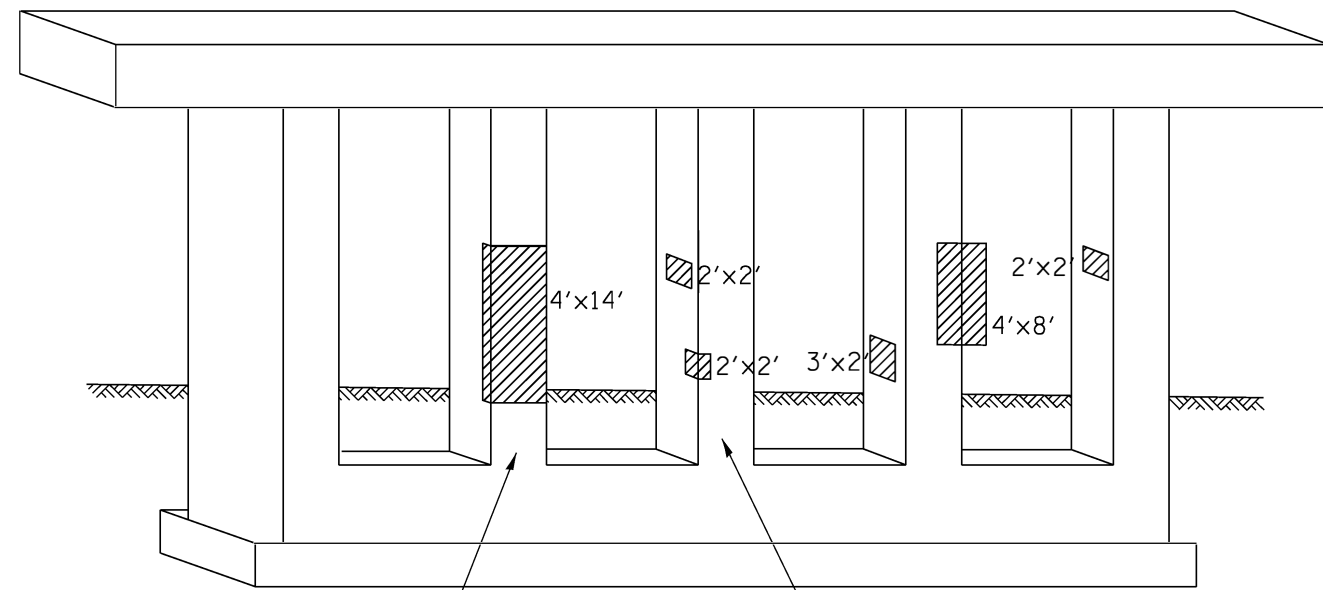
USER NAME = rothjp	DESIGNED - MVT	REVISED -
DRAWN - MVT	DRAWN - MVT	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJA	REVISED -
PLOT DATE = 1/31/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 83 OVER CHICAGO SANITARY SHIP CANAL
PIER 15 AND 16 REPAIR
S.N. 016-0425**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	40
CONTRACT NO. 62H71			ILLINOIS FED. AID PROJECT	

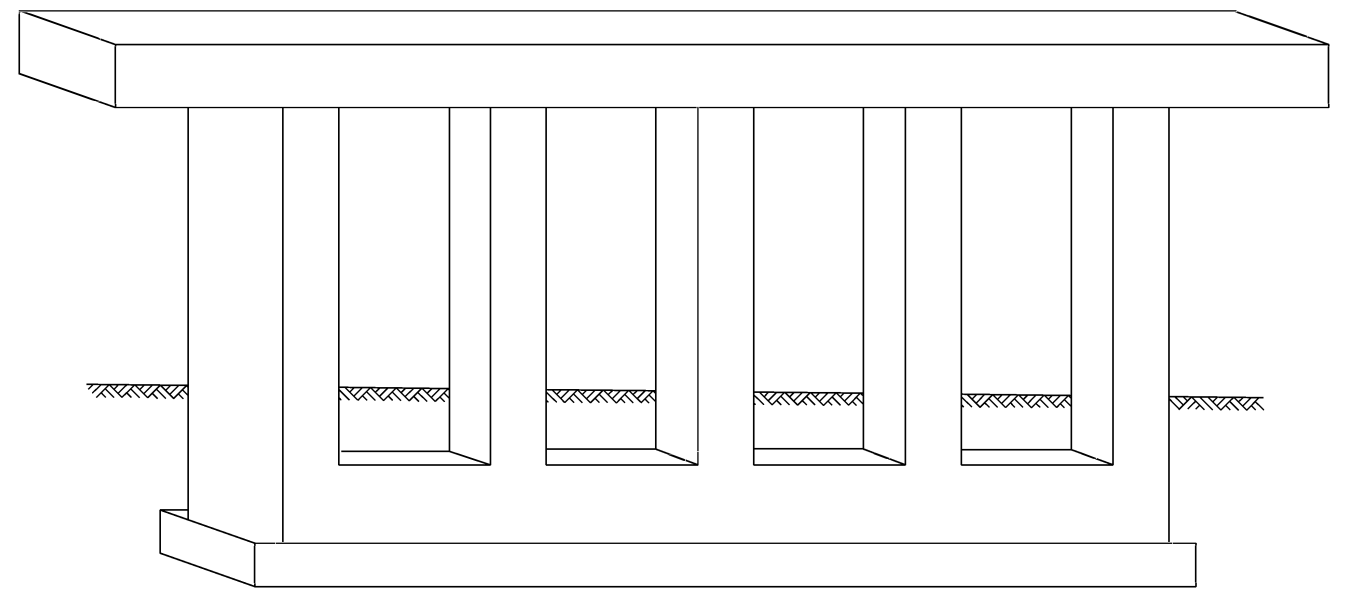
SCALE: SHEET 21 OF 29 SHEETS STA. TO STA.



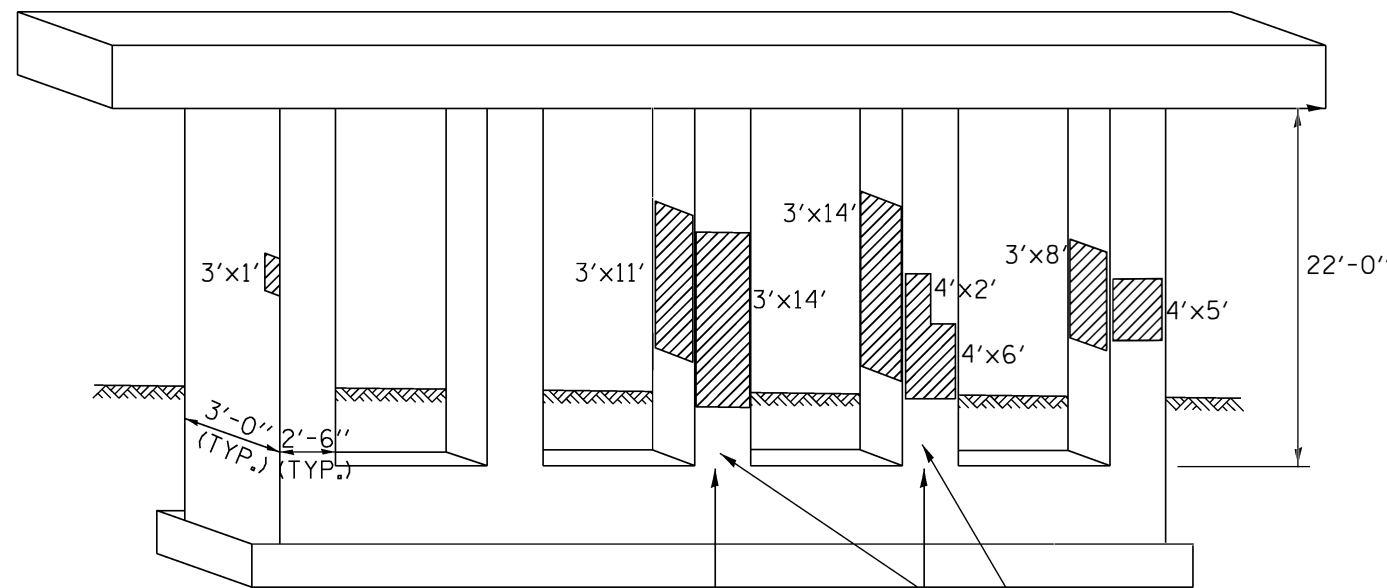
TEMPORARY SHORING AND CRIBBING

PIER 17 NORTH FACE

TEMPORARY SHORING AND CRIBBING



PIER 18 NORTH FACE

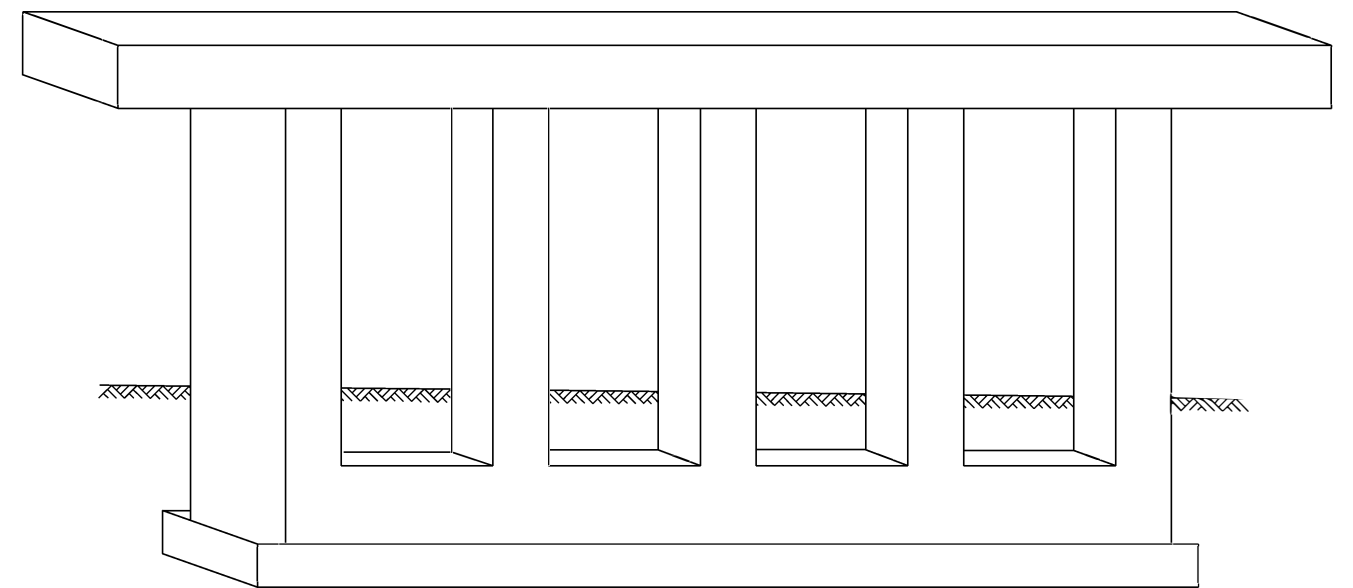


GROUTED FRP ENCASED REPAIR

PIER 17 SOUTH FACE

STRUCTURAL REPAIR OF CONCRETE \leq 5"

TEMPORARY SHORING AND CRIBBING



PIER 18 SOUTH FACE

**BILL OF MATERIALS
PIER 17**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE DEPTH \leq 5"	SQ.FT.	449
TEMPORARY SHORING AND CRIBBING	EACH	4
GROUTED FRP ENCASED REPAIR	FOOT	30

MODEL: Default
 FILE: Main: P:\uplanroom.dat\illinois.gov\PIWIDOT\Documents\DOT_Offices\District_1\Projects\Struct1\CAD\Drawings\016-0425.dgn

USER NAME = rothjp	DESIGNED - MVT	REVISED -
	DRAWN - MVT	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MJA	REVISED -
PLOT DATE = 3/6/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

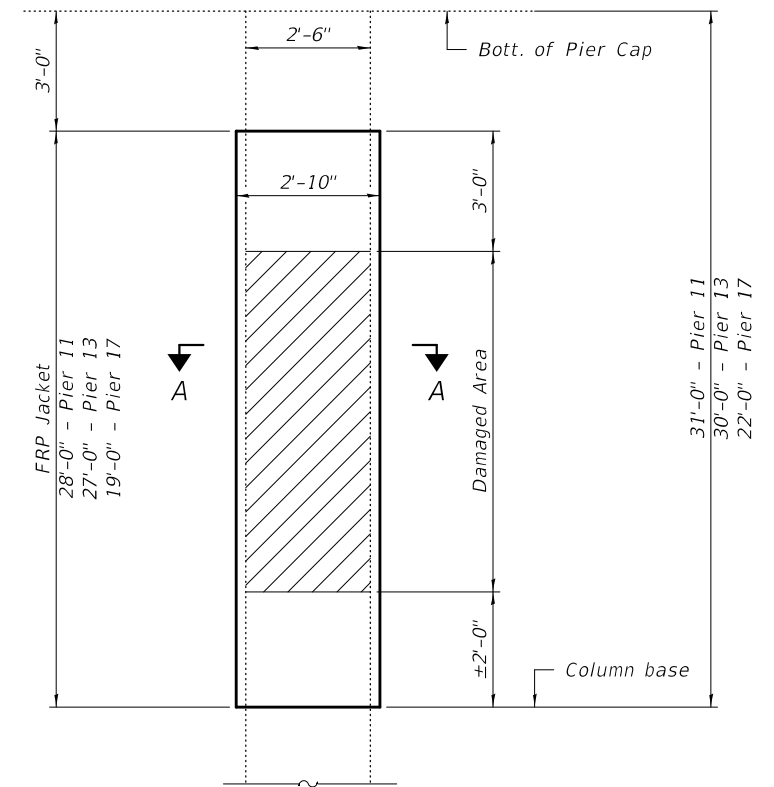
**IL ROUTE 83 OVER CHICAGO SANITARY SHIP CANAL
PIER 17 AND 18 REPAIR
S.N. 016-0425**

SCALE: SHEET 22 OF 29 SHEETS STA. TO STA.

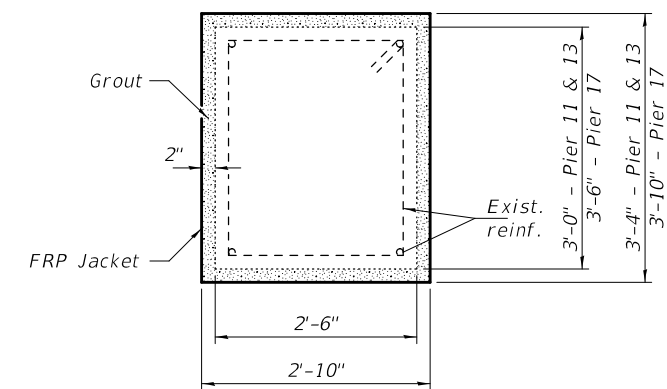
F.A.P. RTE. 344	SECTION 2018-139-BR	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 41
			CONTRACT NO. 62H71	
ILLINOIS FED. AID PROJECT				



PIER 11 - LOOKING NORTH
(Pier 13 & 17 similar)



TYPICAL PILE REPAIR



SECTION A-A

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Grouted FRP Encased Repair	Foot	110

DESIGNED - VHV	EXAMINED	DATE - MARCH 20, 2020
CHECKED - ATH	<i>Timothy A. Daburdell</i> ENGINEER OF STRUCTURAL SERVICES	
DRAWN - daburdell	PASSED	REVISED -
CHECKED - VHV ATH	<i>Carl Ringer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

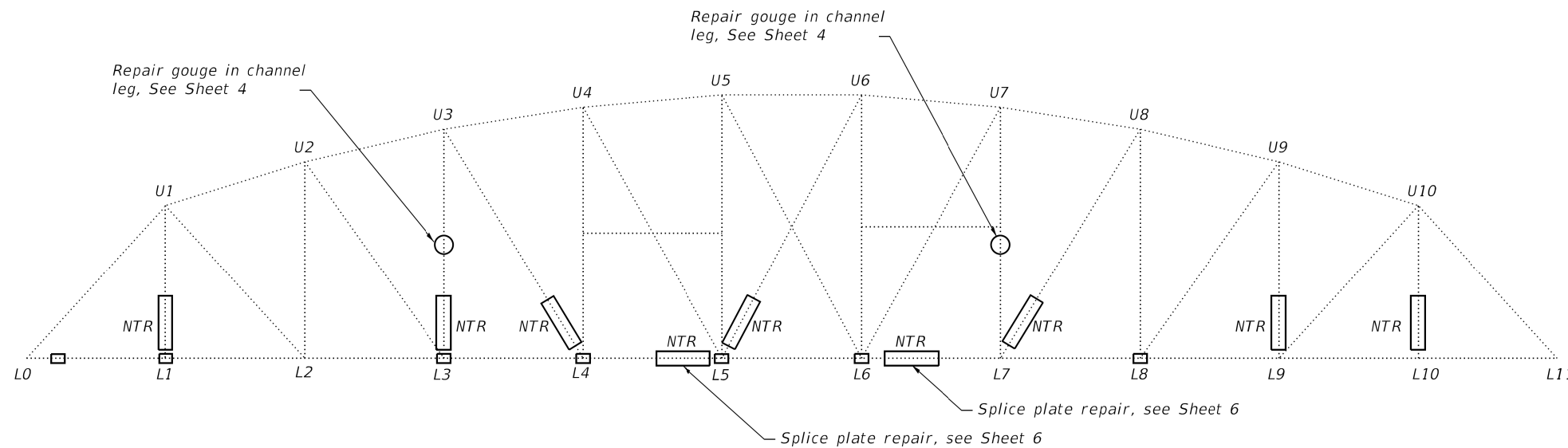
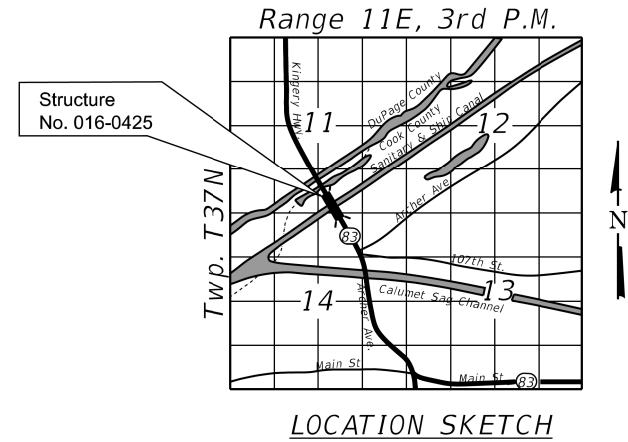
**PIER REPAIR DETAIL
SN 016-0425**

SHEET NO. 22A OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	41A
CONTRACT NO. 62H71				
ILLINOIS FED. AID PROJECT				

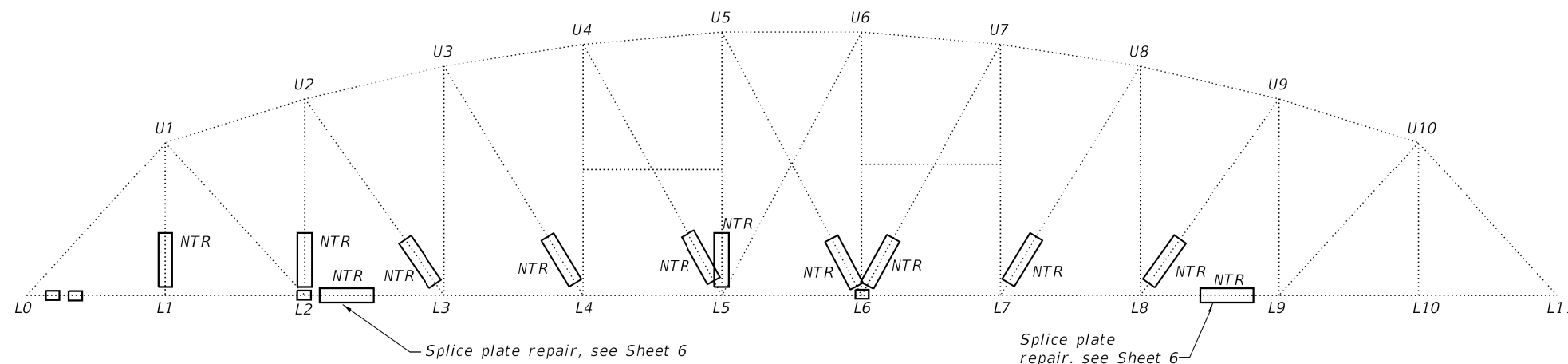
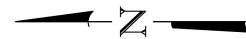
EXISTING BRIDGE DESCRIPTION

This 19-span bridge, constructed in 1934 and rehabilitated in 1959, consists of a Parker through-truss main span over the Chicago Sanitary and Ship Canal, seventeen steel multi-beam approach spans, and one concrete slab approach span at the south end. The bridge carries two lanes of vehicular traffic in each direction with bike lanes along the west truss. The steel superstructure is supported by reinforced concrete piers and abutments.



- Truss member repair, see Sheets 4, 5, and 6.
- Batten plate replacement, see Sheet 7.
- Gouge repair, see Sheet 4

WEST ELEVATION OF WEST TRUSS



WEST ELEVATION OF EAST TRUSS



Signed: *Douglas D. Crampton*
Douglas D. Crampton, S.E.
IL. Lic. No. 081-006108
Expires 11-30-2020

Date: 02-25-2020
For Sheet No.'s 1 thru 7 of 7

FILE NAME = P:\2015\2015.2\2015.2575.C - IL-83 AND IL-43 STEEL TRUSS REPAIRS (DC)\Drawings\Microstation\1-83 Bridge No. 016-0425\1-Truss Elevation.dgn

USER NAME = TCS	DESIGNED - ARB	REVISED -
	CHECKED - DC	REVISED -
PLOT SCALE = Not to Scale	DRAWN - TCS	REVISED -
PLOT DATE = 2/25/2020	CHECKED - DC/ARB	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRUSS ELEVATION
STRUCTURE NO. 016-0425**

SHEET NO. 1 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	42
CONTRACT NO.			62H71	

ILLINOIS FED. AID PROJECT

Structural Steel Repair Notes

1. Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to field verify such dimensions and details and make necessary approved adjustments prior to construction or ordering materials. Such variation shall not be cause for additional compensation for a change in the scope of work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
2. Contractor shall not scale dimensions from these plans for construction purposes. Any scales shown are for information only.
3. Repairs shown are based on the information available at the time of plan preparation and are for bidding purposes only. Actual areas to be repaired shall be determined by the Engineer in the field at the time of construction.
4. All new structural steel shall be AASHTO M-270 Grade 36, unless noted otherwise.
5. To match the existing rivet diameter, all new bolts shall be 7/8 inch diameter AASHTO M164 Type 1 bolts with AASHTO M291 Grade DH nuts and AASHTO M293 hardened washers, unless noted otherwise. All bolts shall be installed in standard holes (bolt diameter plus 1/16 inch) whether the hole is new or existing. All bolts shall be pretensioned to the minimum installation tension specified in Section 505.04 of the Standard Specifications.
6. No field welding is permitted.
7. Repairs to truss diagonal members (Sheet 4 and Sheet 5), truss vertical members (Sheet 6), and the lateral bracing repairs (Sheet 7) shall be performed when live load is restricted from the two lanes nearest to the truss being repaired.
8. For the truss member repair details shown on Sheet 4, Sheet 5, and Sheet 6, only one repair plate (one angle leg repair plate or one channel web repair plate) shall be installed at a time in order to limit the number of rivets removed from the gusset plate. The installation of other repair plates shall not commence until the installation of the previous repair plate is complete and the bolts are pretensioned.
9. Minor adjustments to the spacing of new bolts may be necessary to match existing dimensions or conditions, and will be permitted if pre-approved by the Engineer. Adjustments to the bolt spacing will only be permitted if necessary to match existing conditions, and will not be permitted to reduce the repair plate length. In no case shall the bolt spacing be less than 3 inches or greater than 5-1/2 inches. Minimum edge distance, measured from the center of the bolt hole to the edge of the plate, shall be 1-1/2 inches, unless noted otherwise on the drawings.
10. Installation of steel repairs may require compact equipment, such as magnetic drills, in order to fit within the depth of the truss verticals and diagonals.
11. When removing and replacing existing deteriorated rivets with bolts, no more than 3 rivets shall be removed from the truss bottom chord before filling the existing holes with new high-strength bolts, installed to a minimum of snug tight. Pretensioning the new bolts to the minimum installation tension may be performed after all new bolts have been installed.
12. Hardened washers shall be installed beneath the head of each bolt if the head will be turned to tension the bolt.
13. Cost of removal and re-installation of all members necessary to complete the work detailed on the plans and as specified in the Special Provisions shall be included with Structural Steel Repair.
14. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
15. Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision, "Cleaning and Painting Contact Surface Areas of Existing Steel Structures."
16. All new steel shall be shop painted with inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with "Structural Steel Repair". All faying surfaces of bolted connections shall meet the requirements for a class A surface as defined by AASHTO.
17. Cleaning and painting of all structural steel repairs shall meet the requirements for Primary Connections as specified in the special provision for "Cleaning and Painting Contact Surface Areas of Existing Steel Structures." Color of the top coat shall match the color of the existing truss members or lower floor framing, as applicable.

18. The Contractor shall obtain Coast Guard approval for any work that may interfere with navigational operations of the navigable waters. A work plan shall be prepared by the Contractor, reviewed and approved by the Engineer, and submitted by the Engineer to the Coast Guard at the address listed below for approval:
 Bridge Administrator
 U.S. Coast Guard
 Ninth Coast Guard District
 1240 E. Ninth St.
 Cleveland, OH 44199-2060
19. The Contractor shall take the necessary precautions to insure that no debris will endanger or interfere with any activities beneath the bridge according to Article 107.09 of the Standard Specifications and shall prevent any debris from falling in the river. This work will not be paid for separately, but shall be included in the Contract unit price for the appropriate pay item involved and no additional compensation will be allowed.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Steel Repair	Pound	7,180
Bolt Replacement	Each	1,400

FILE NAME = P:\2015\2015.2\11\2015.2575.C - IL-93 AND IL-43 STEEL TRUSS REPAIRS (DC)\Drawings\Microstation\1-83 Bridge No. 016-0425\2-Details.dgn

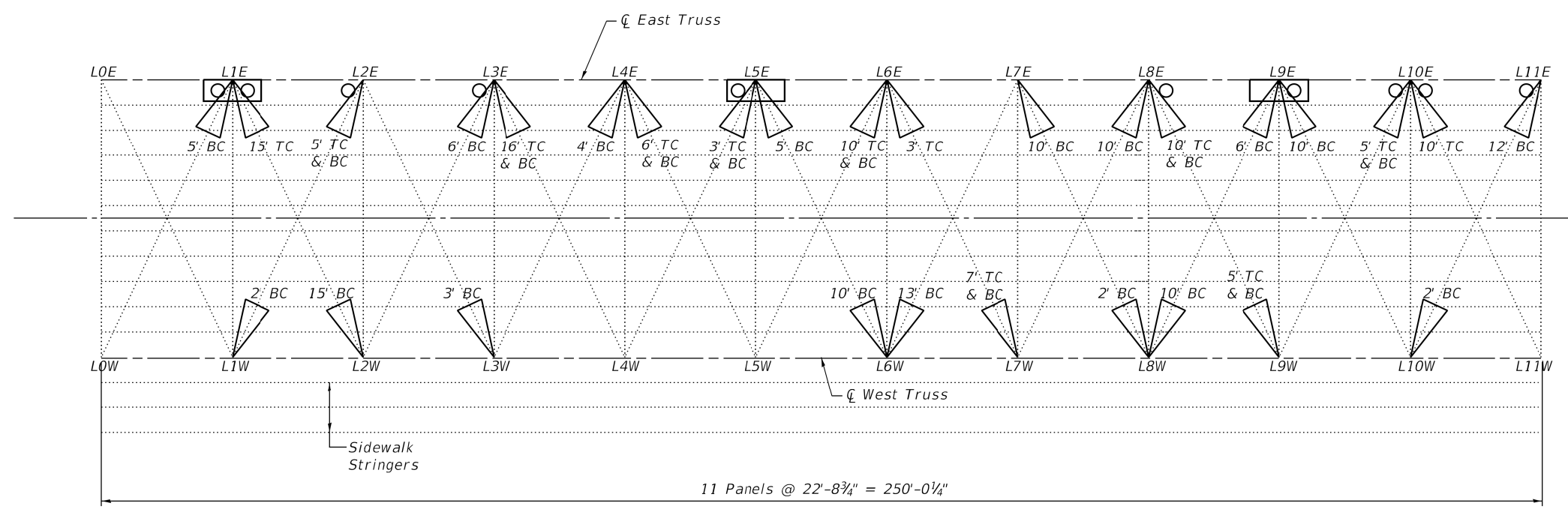
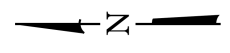
USER NAME = TCS	DESIGNED - ARB	REVISED -
PLOT SCALE = Not to Scale	CHECKED - DC	REVISED -
PLOT DATE = 11/27/2018	DRAWN - TCS	REVISED -
	CHECKED - DC/ARB	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES
STRUCTURE NO. 016-0425**


SHEET NO. 2 OF 7 SHEETS


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	43
CONTRACT NO.			62H71	
ILLINOIS FED. AID PROJECT				




FRAMING PLAN

LEGEND:

 Top lateral gusset replacement, see Sheet 7

 Bottom lateral gusset replacement, see Sheet 7

 $3'$ TC Length of repair, TC = Top Chord, BC = Bottom Chord
 Lateral brace member repair, see Sheet 7

FILE NAME = P:\2015\2015.2\11-27-2015\2575.C - IL-93 AND IL-43 STEEL TRUSS REPAIRS (DC)\Drawings\Microstation\1-83 Bridge No. 016-0425\3-Framing Plan.dgn

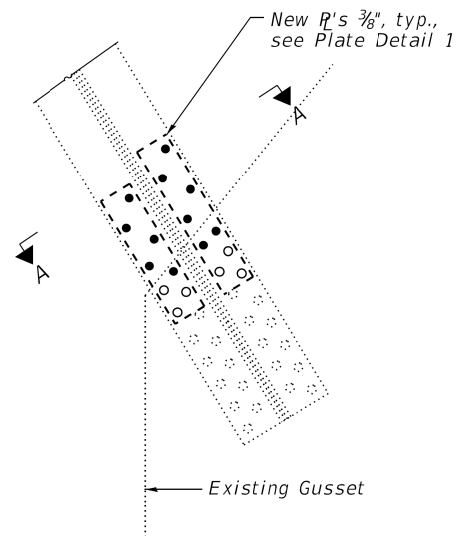
USER NAME = TCS	DESIGNED - ARB	REVISED -
PLOT SCALE = Not to Scale	CHECKED - DC	REVISED -
PLOT DATE = 11/27/2018	DRAWN - TCS	REVISED -
	CHECKED - DC/ARB	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

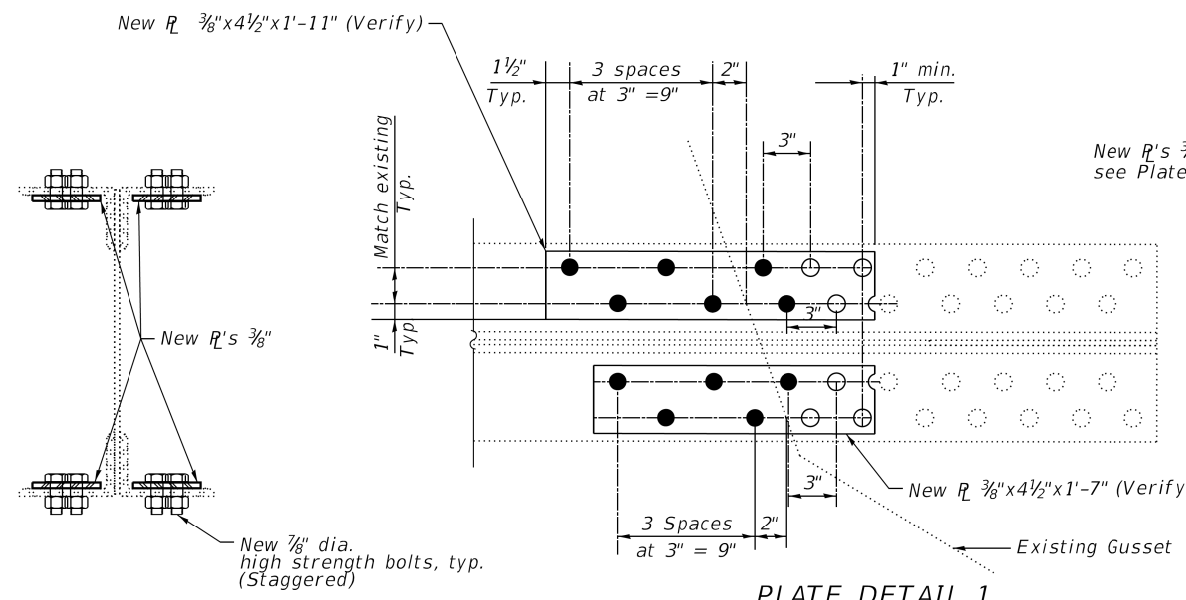
**LOWER CHORD FRAMING PLAN
STRUCTURE NO. 016-0425**

SHEET NO. 3 OF 7 SHEETS

F.A.P. RTE. 344	SECTION 2018-139-BR	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 44
CONTRACT NO.			62H71	
ILLINOIS FED. AID PROJECT				

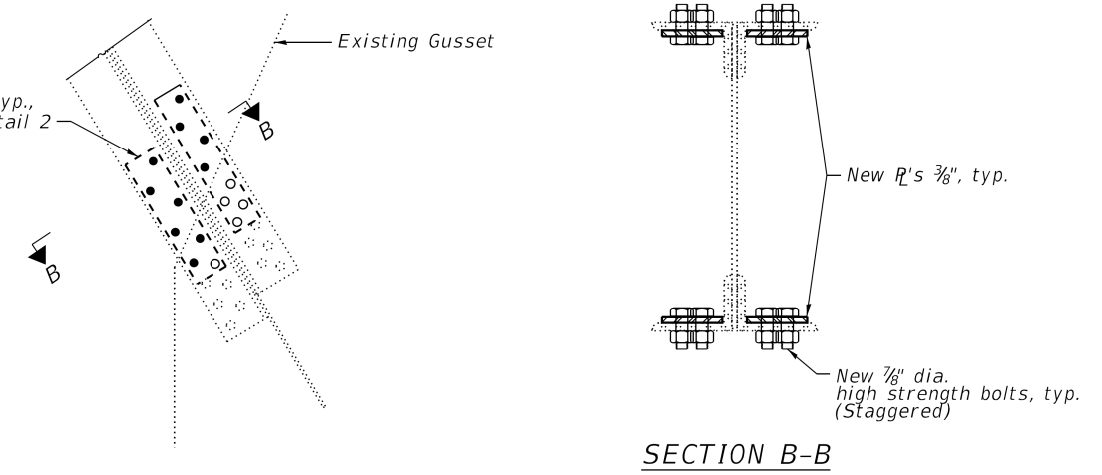


TRUSS DIAGONAL REPAIR AT
U2E-L3E AND L8E-U9E



SECTION A-A

PLATE DETAIL 1

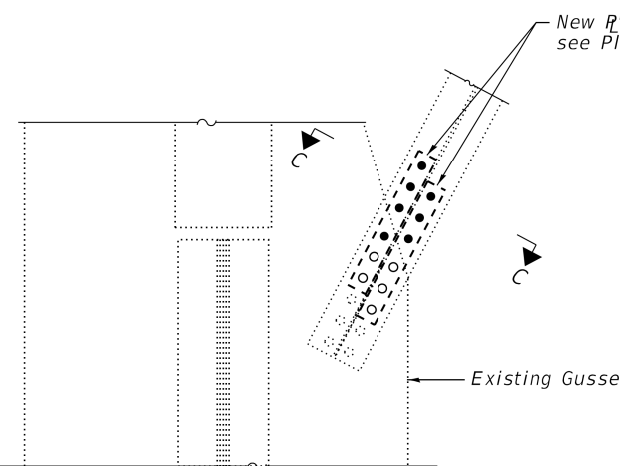


SECTION B-B

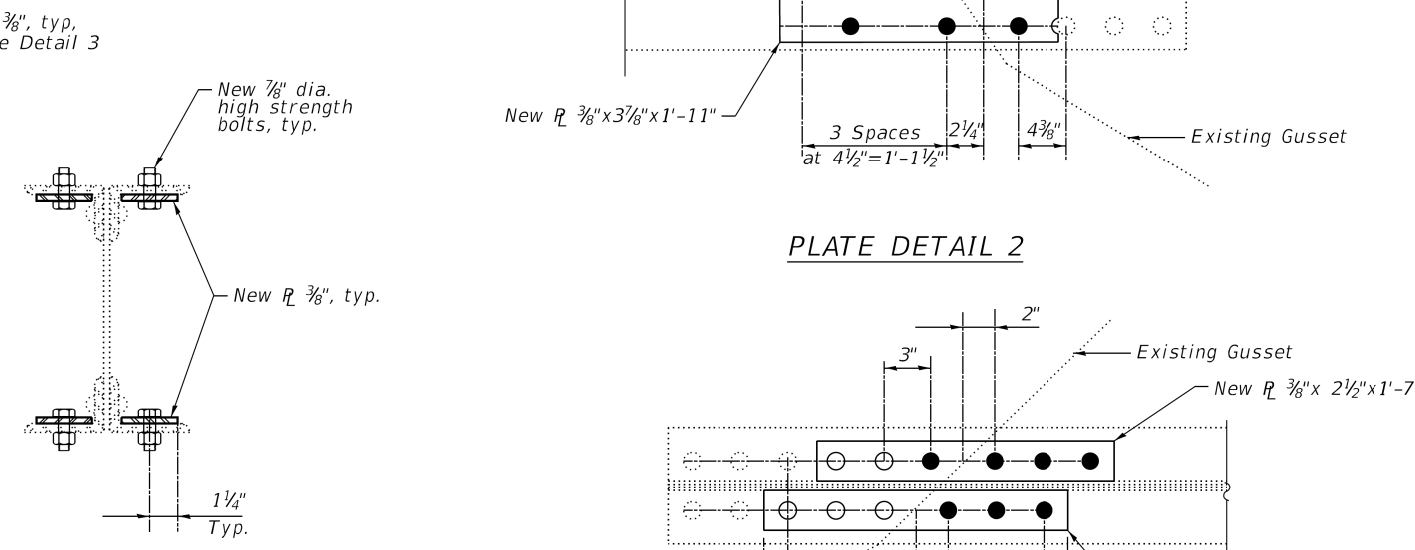
TRUSS DIAGONAL REPAIR AT
U4E-L5E AND L6E-U7E

LEGEND:

- Remove Existing Rivet and Replace with H.S. Bolt, Match Drill New Plate to Existing Rivet Holes
- New H.S. Bolt in Existing Member and Repair Plate
- ⊙ Existing Rivets to Remain



TRUSS DIAGONAL REPAIR AT
L5W-U6W AND U5E-L6E



SECTION C-C

PLATE DETAIL 2

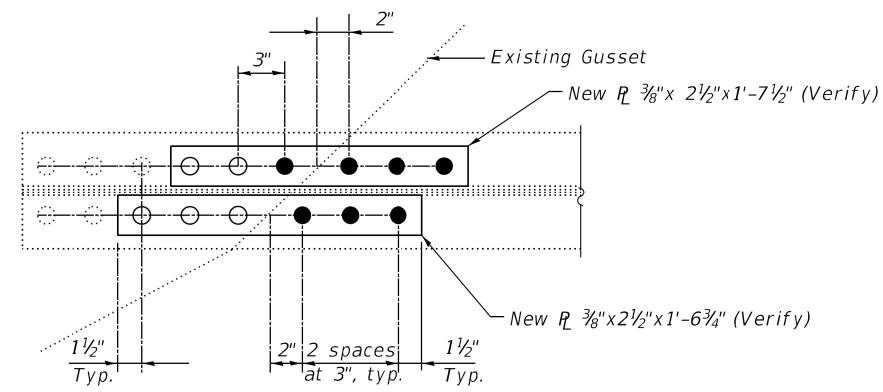
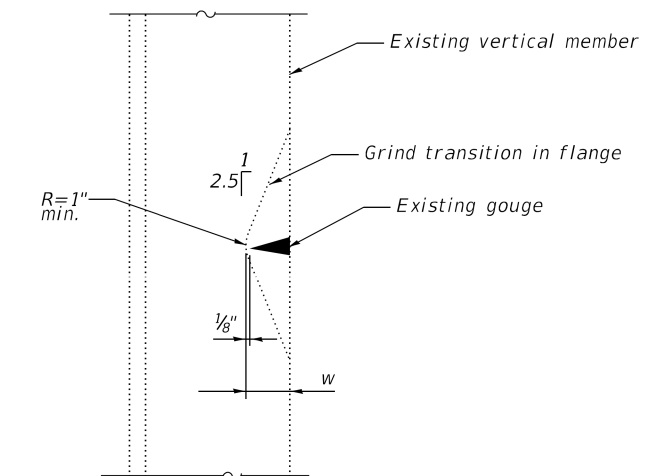


PLATE DETAIL 3



GOUGE REPAIR DETAIL

Gouge repairs at L7W-U7W and L3W-U3W cost shall be incidental to Structural Steel Repairs. Perform magnetic particle testing to verify gouge has been removed. Notify Engineer if width of the grinding (w) repair exceeds 3/4". Flame cutting shall not be permitted.

BILL OF MATERIALS

Item	Unit	Quantity
Structural Steel Repair	Pound	410

FILE NAME = P:\2015\2015-2015-2575.C - IL-83 AND IL-43 STEEL TRUSS REPAIRS (DC)\Drawings\Microstation\1-83 Bridge No. 016-0425\4-Details.dgn

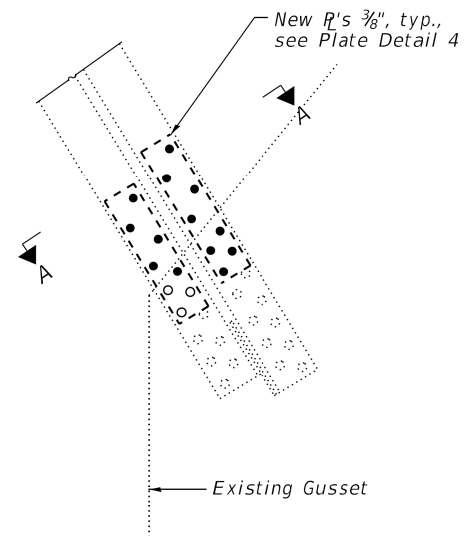
USER NAME = TCS	DESIGNED - ARB	REVISED -
PLOT SCALE = Not to Scale	CHECKED - DC	REVISED -
PLOT DATE = 11/27/2018	DRAWN - TCS	REVISED -
	CHECKED - DC/ARB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

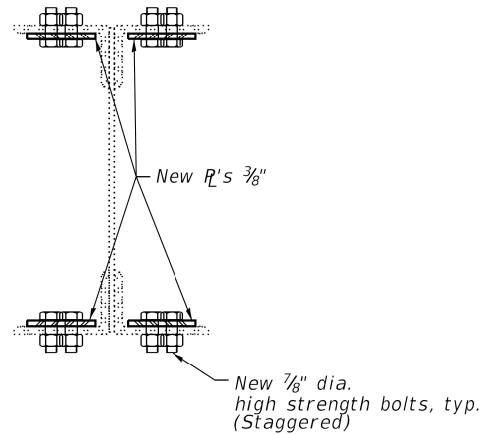
MEMBER REPAIRS
STRUCTURE NO. 016-0425

SHEET NO. 4 OF 7 SHEETS

F.A.P. RTE. 344	SECTION 2018-139-BR	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 45
CONTRACT NO.			62H71	
ILLINOIS FED. AID PROJECT				



**TRUSS DIAGONAL REPAIR AT
U3W-L4W, U3E-L4E, L7W-U8W,
L7E-U8E**



SECTION A-A

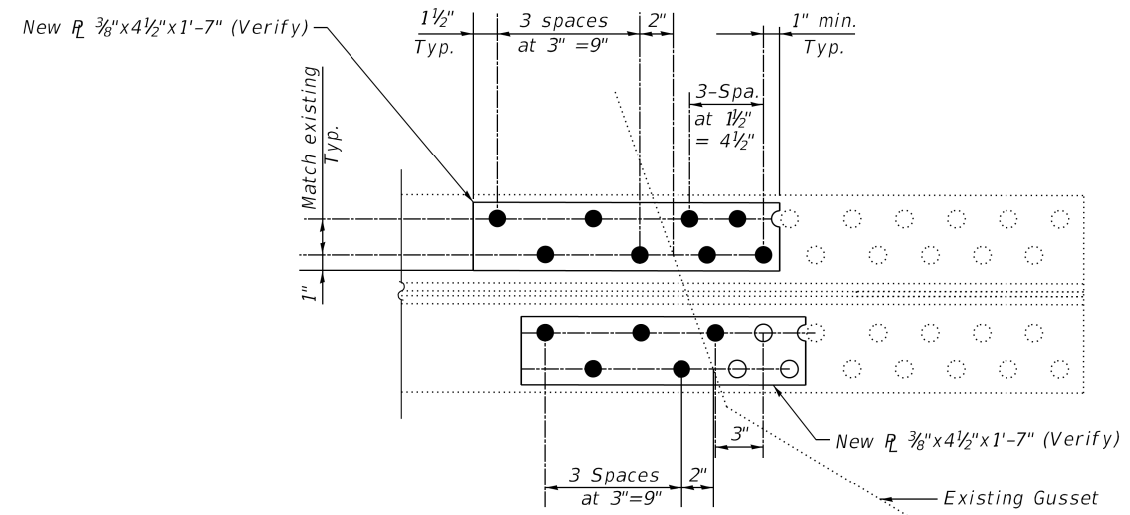


PLATE DETAIL 4

LEGEND:

- Remove Existing Rivet and Replace with H.S. Bolt, Match Drill New Plate to Existing Rivet Holes
- New H.S. Bolt in Existing Member and Repair Plate
- ⊙ Existing Rivets to Remain

GOUGE REPAIR DETAIL

Gouge repairs at L7W-U7W and L3W-U3W cost shall be incidental to Structural Steel Repairs. Perform magnetic particle testing to verify gouge has been removed. Notify Engineer if width of the grinding (w) repair exceeds 3/4". Flame cutting shall not be permitted.

BILL OF MATERIALS

Item	Unit	Quantity
Structural Steel Repair	Pound	290

FILE NAME = P:\2015\2015-2-xx\2015-2575.C - IL-83 AND IL-43 STEEL TRUSS REPAIRS (DC)\Drawings\Microstation\1-83 Bridge No. 016-0425-5-Details 4.dgn

USER NAME = TCS	DESIGNED - ARB	REVISED -
PLOT SCALE = Not to Scale	CHECKED - DC	REVISED -
PLOT DATE = 11/27/2018	DRAWN - TCS	REVISED -
	CHECKED - DC/ARB	REVISED -

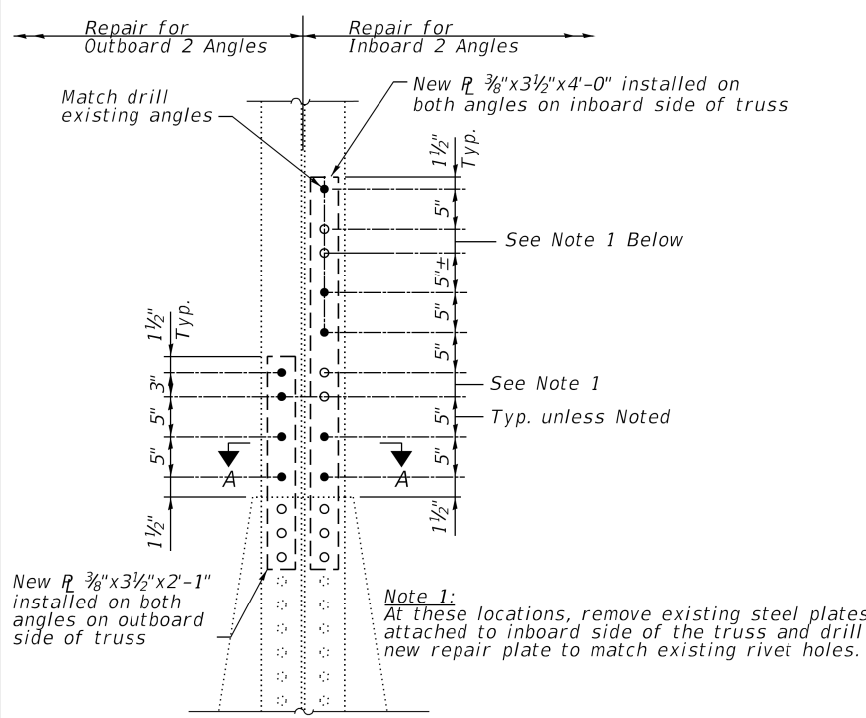
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MEMBER REPAIRS
STRUCTURE NO. 016-0425**

SHEET NO. 5 OF 7 SHEETS

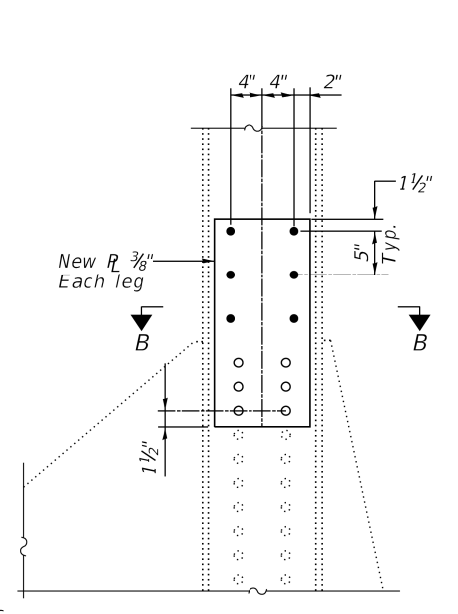
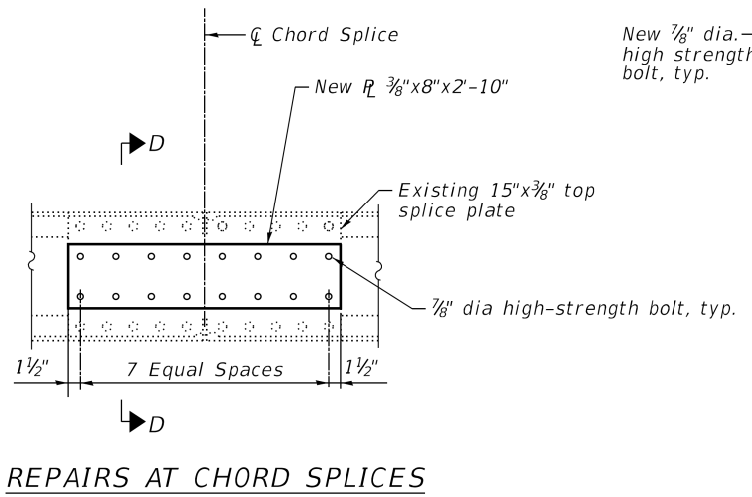
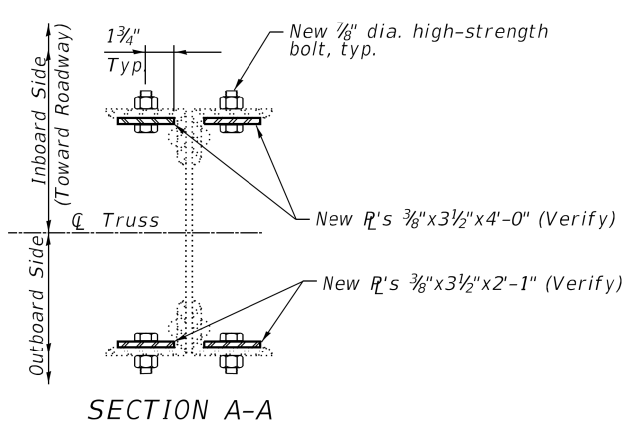
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	46
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H71	

FILE NAME = P:\2015\2015-2015-2575C - IL-83 AND IL-43 STEEL TRUSS REPAIRS (DC)\Drawings\Microstation\1-83 Bridge No. 016-0425(6-Details 2.dgn

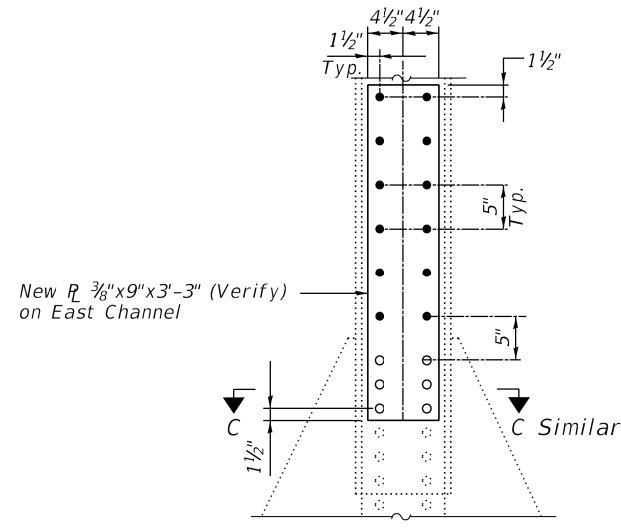


L1W-U1W, L10W-U10W AND L1E-U1E
Half Elevation

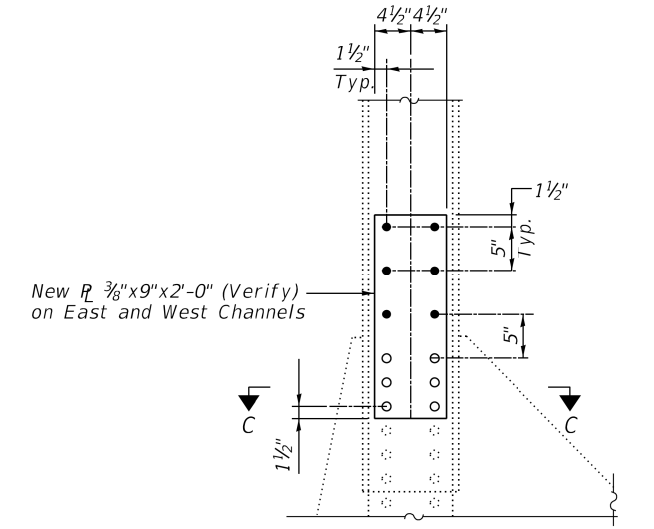
Only the inboard plates (roadway side) required at L1E-U1E. Both the inboard and outboard plates are required at the other locations.



L2E-U2E AND L9W-U9W
Elevation
Only the inboard (roadway side) repair plate is required at L9W-U9W



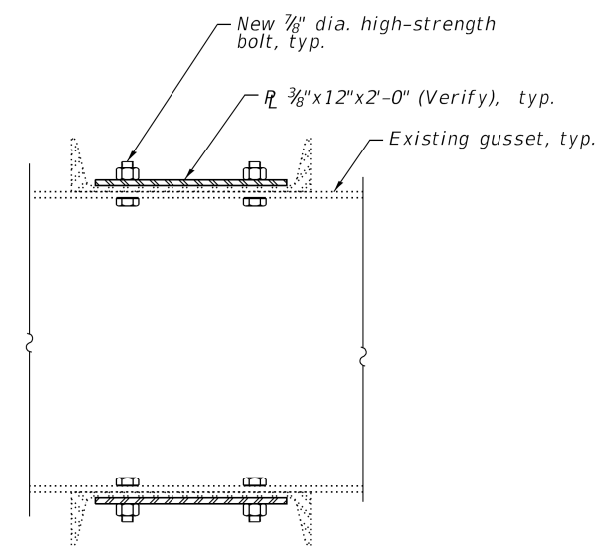
L5E-U5E
Elevation Facing West
Only the east channel requires a plate repair at L5E-U5E



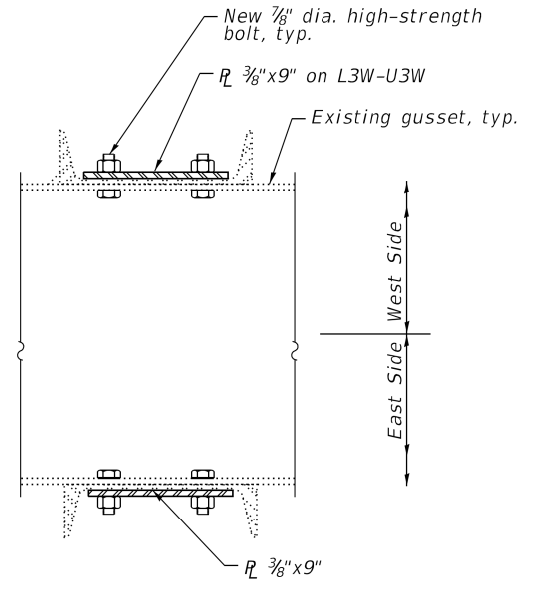
L3W-U3W
Elevation Facing West

LEGEND:

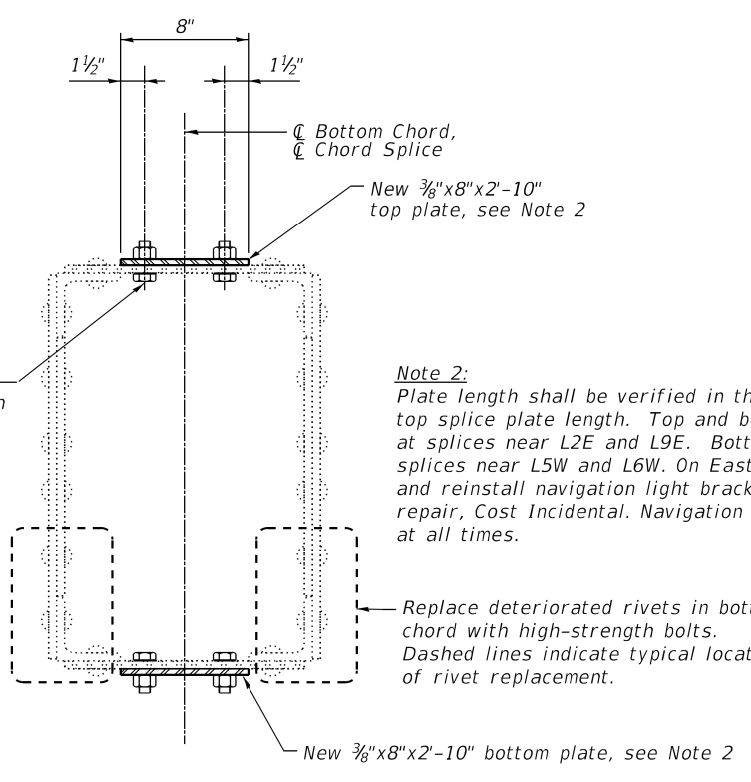
- Remove Existing Rivet and Replace with H.S. Bolt, Match Drill New Plate to Existing Rivet Holes
- New H.S. Bolt in Existing Member and Repair Plate
- ⊛ Existing Rivets to Remain



SECTION B-B



SECTION C-C

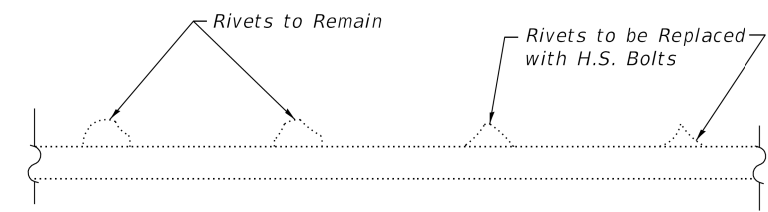


SECTION D-D

Note 2:
Plate length shall be verified in the field to match existing top splice plate length. Top and bottom repair plates required at splices near L2E and L9E. Bottom repair plate required at splices near L5W and L6W. On East truss, temporarily remove and reinstall navigation light bracket if necessary to complete repair, Cost Incidental. Navigation light shall remain in service at all times.

Replace deteriorated rivets in bottom chord with high-strength bolts. Dashed lines indicate typical locations of rivet replacement.

Notes:
Deteriorated rivets away from other repairs will be replaced with bolts according to the special provision for Bolt Replacement at locations directed by the Engineer. Most of the deteriorated rivets are in the truss bottom chords. A quantity of 1,400 rivets to be replaced with bolts shall be carried in the bid with final quantities as directed by the Engineer. Bolt replacement related to member or lateral gusset repairs will be included in the cost of Structural Steel Repair.



TYPICAL RIVET HEAD DETERIORATION

BILL OF MATERIAL

Item	Unit	Quantity
Structural Steel Repair	Pound	820
Bolt Replacement	Each	1,400

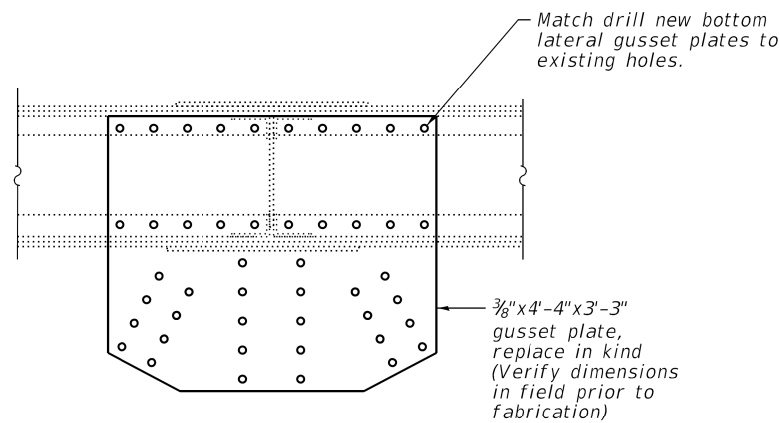
USER NAME = TCS	DESIGNED - ARB	REVISED -
PLOT SCALE = Not to Scale	CHECKED - DC	REVISED -
PLOT DATE = 11/27/2018	DRAWN - TCS	REVISED -
	CHECKED - DC/ARB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MEMBER REPAIRS
STRUCTURE NO. 016-0425

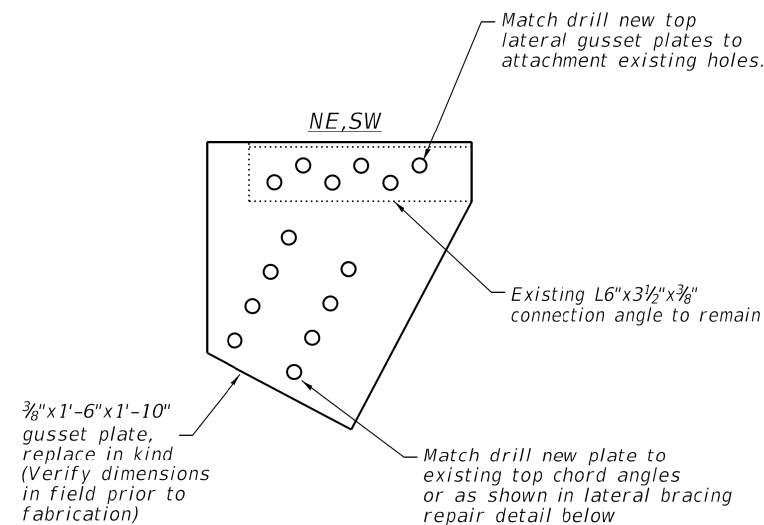
SHEET NO. 6 OF 7 SHEETS

F.A.P. RTE. 344	SECTION 2018-139-BR	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 47
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H71	

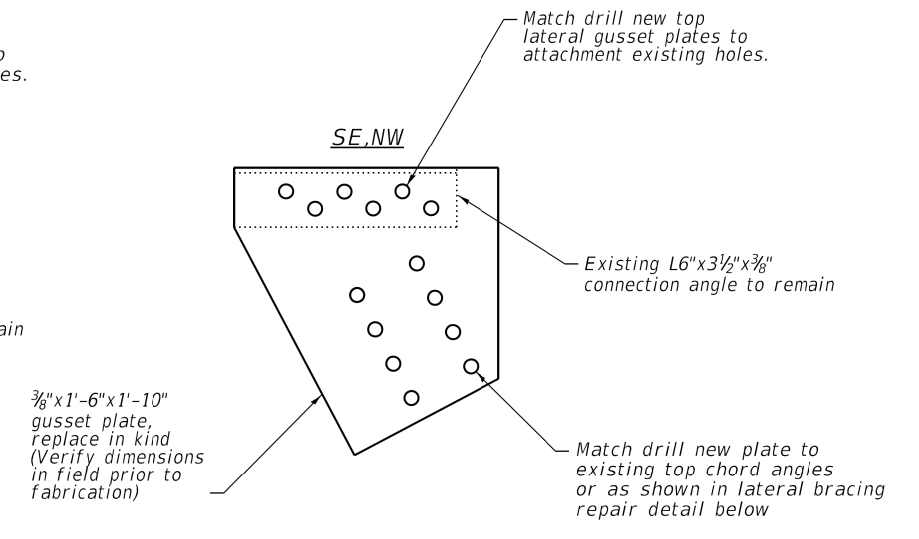


Note:
Contractor to provide temporary support for existing lateral members during gusset replacement.

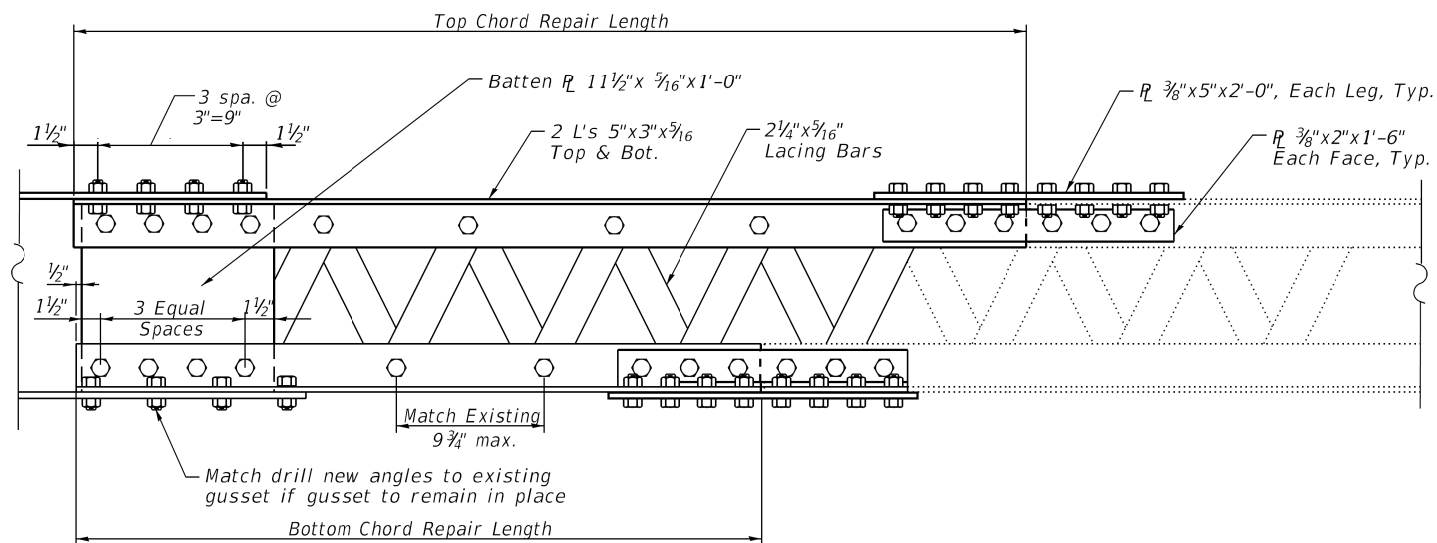
BOTTOM LATERAL GUSSET REPLACEMENT AT PANEL POINTS L1E, L5E AND L9E



TOP LATERAL GUSSET REPLACEMENT (NORTH SIDE) AT PANEL POINTS L1E, L2E, L3E, L5E, L10E AND L11E



TOP LATERAL GUSSET REPLACEMENT (SOUTH SIDE) AT PANEL POINTS L1E, L8E, L9E AND L10E



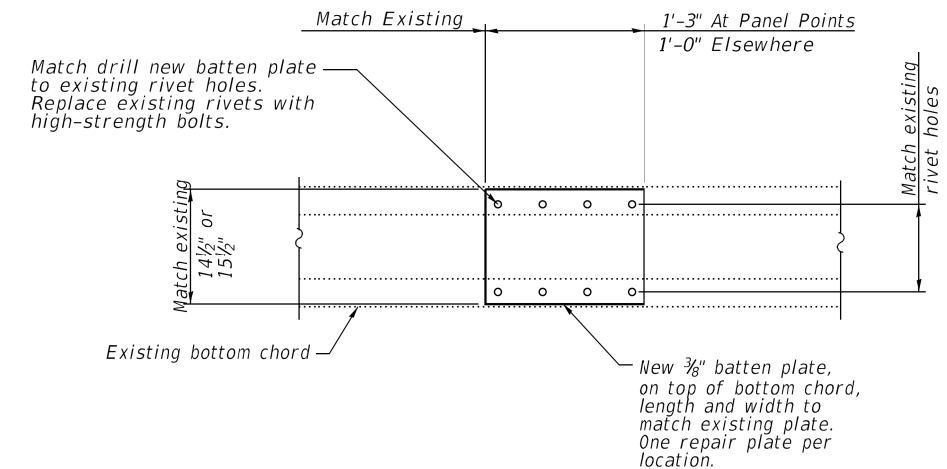
LATERAL BRACING REPAIRS

Notes:

Not all lateral brace angles will require replacement at a given location. Repair locations and lengths are shown on Sheet 3. A repair location may consist of top chord angles, bottom chord angles, or both. Vertical splice plates will be used on both sides of a chord repair. Additional locations may be added at the discretion of the Engineer.

New lacing bars and batten plates shall be provided in the repair length if both the top and bottom chord angles are replaced. Existing lacing bars may be re-used if approved by the Engineer.

The Contractor shall provide temporary support for the existing lateral bracing members during the replacement of members and gusset plates, cost incidental to Structural Steel Repairs.



BATTEN PLATE REPLACEMENT

BILL OF MATERIAL

Item	Unit	Quantity
Structural Steel Repair	Pound	5,660

FILE NAME = P:\2015\2015-2-xx\2015-2575-C - IL-93 AND IL-43 STEEL TRUSS REPAIRS (DC)\Drawings\Microstation\1-83 Bridge No. 016-0425\7-Details.dgn

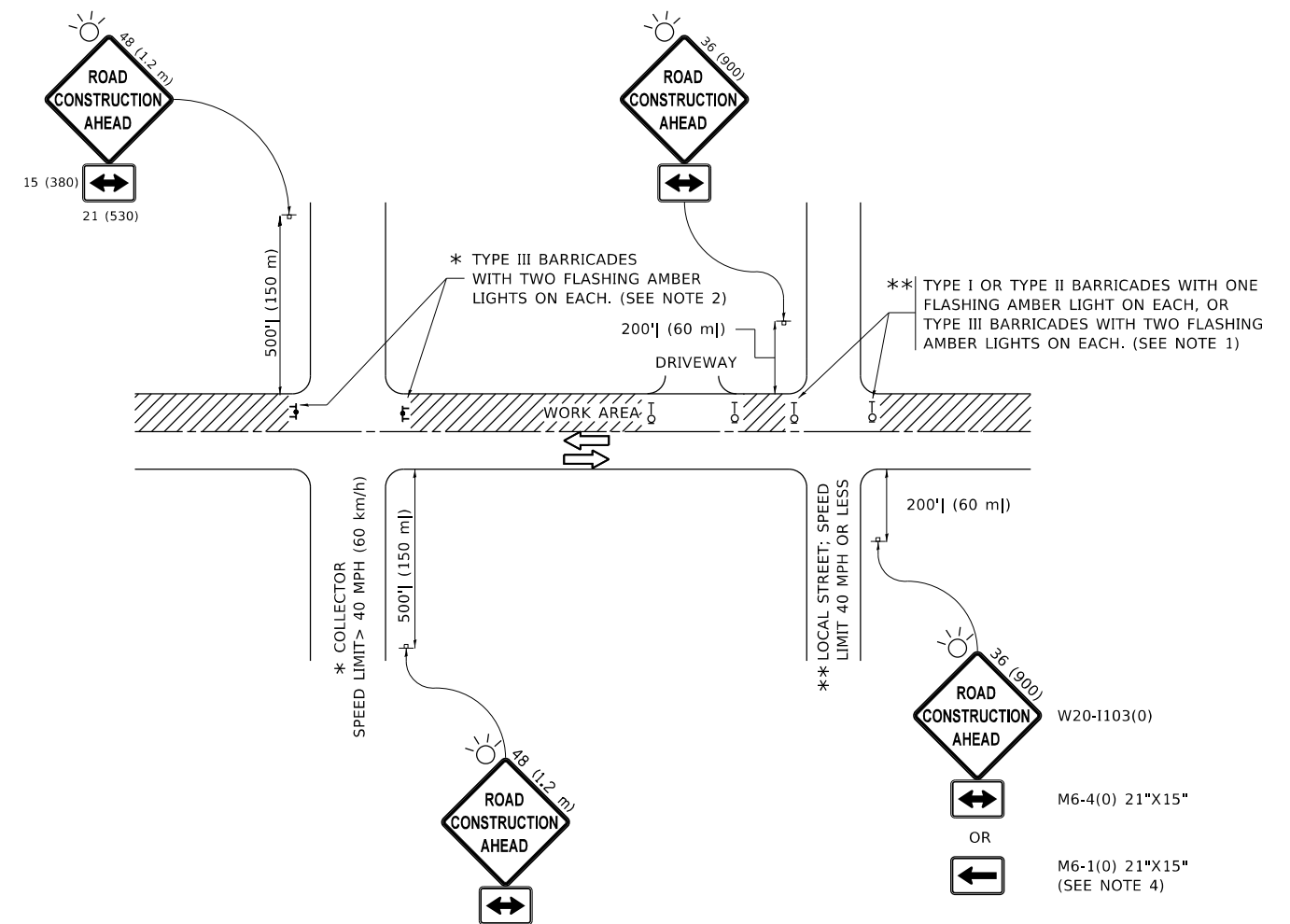
USER NAME = TCS	DESIGNED - ARB	REVISED -
	CHECKED - DC	REVISED -
PLOT SCALE = Not to Scale	DRAWN - TCS	REVISED -
PLOT DATE = 11/27/2018	CHECKED - DC/ARB	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRACING AND BATTEN PLATE REPAIR
STRUCTURE NO. 016-0425**

SHEET NO. 7 OF 7 SHEETS

F.A.P. RTE. 344	SECTION 2018-139-BR	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 48
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H71	



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

MODEL: Default
FILE: \\nas01c.psu.edu\pub\haronm.d\at\illinois.gov\PIWDOT\Documents\DOT_Offices\Director_1\Projects\110419\CADD\Drawings\Design\DESIGN.dgn

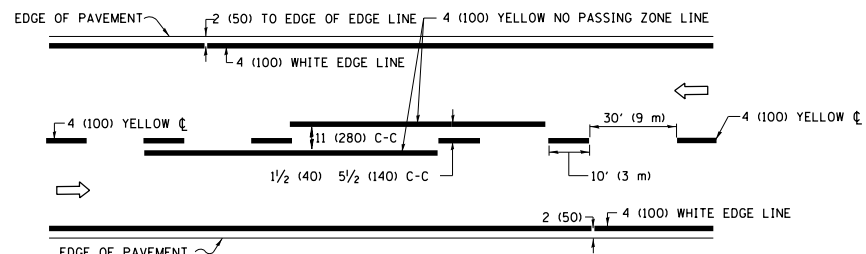
USER NAME = rothjp	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
PLOT DATE = 1/31/2020	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

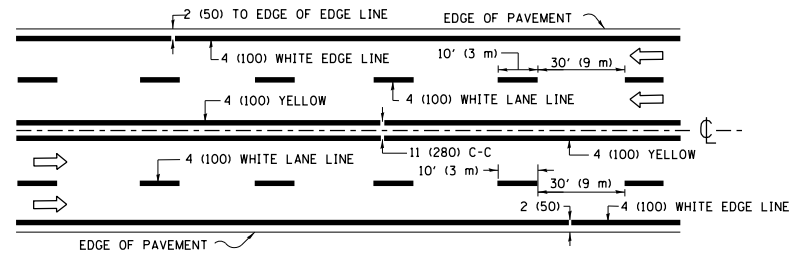
**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

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

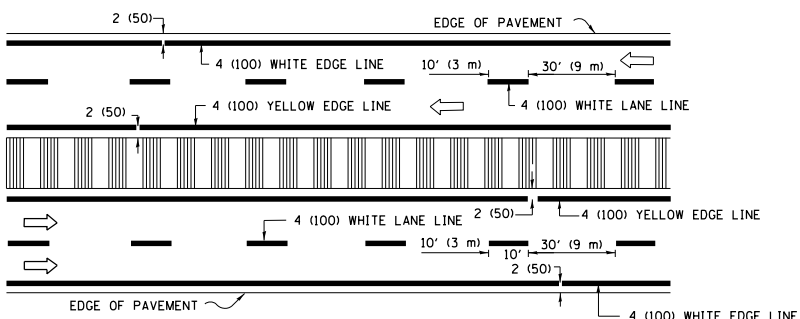
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	49
TC-10			CONTRACT NO. 62H71	
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

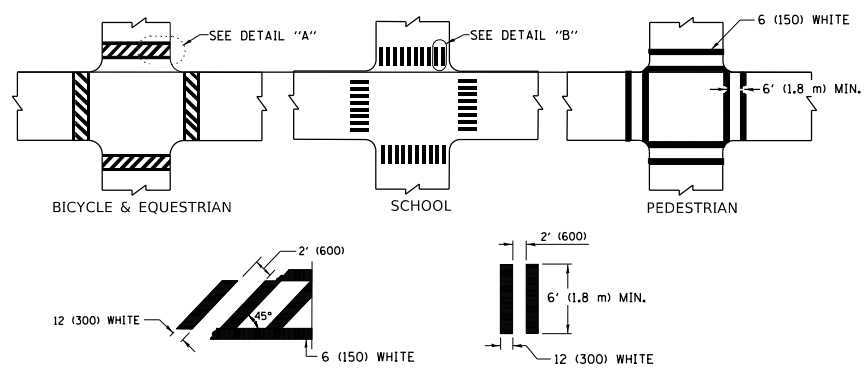


MULTI-LANE UNDIVIDED



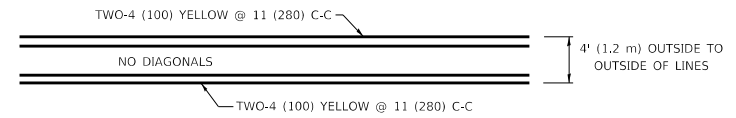
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

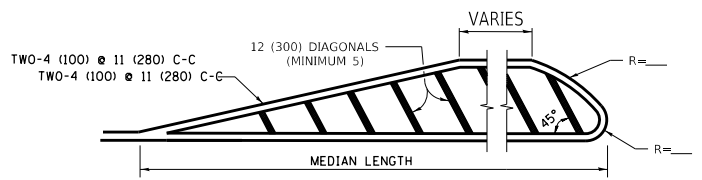


TYPICAL CROSSWALK MARKING

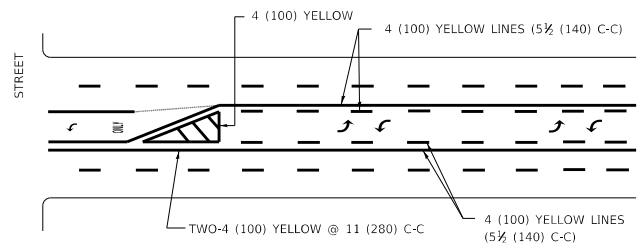
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



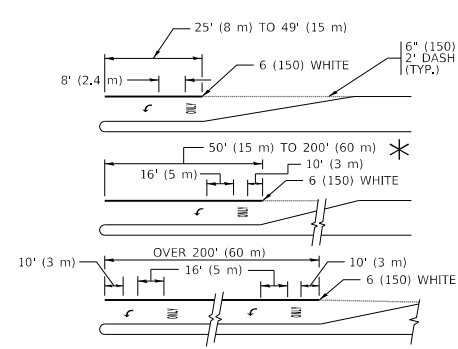
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE



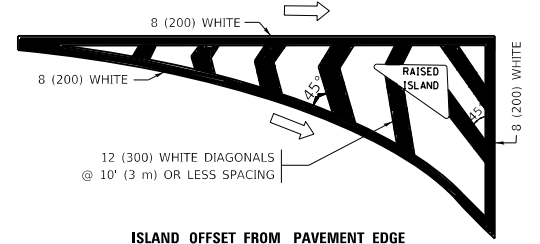
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING



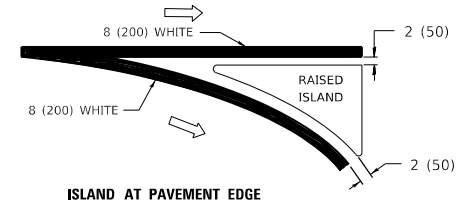
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

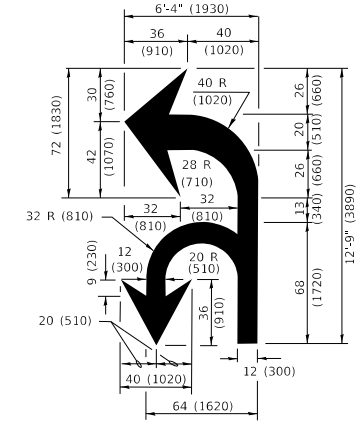
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 * AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



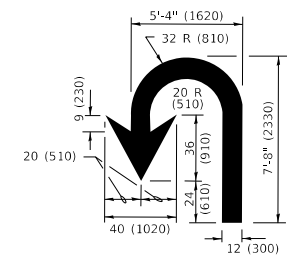
ISLAND OFFSET FROM PAVEMENT EDGE



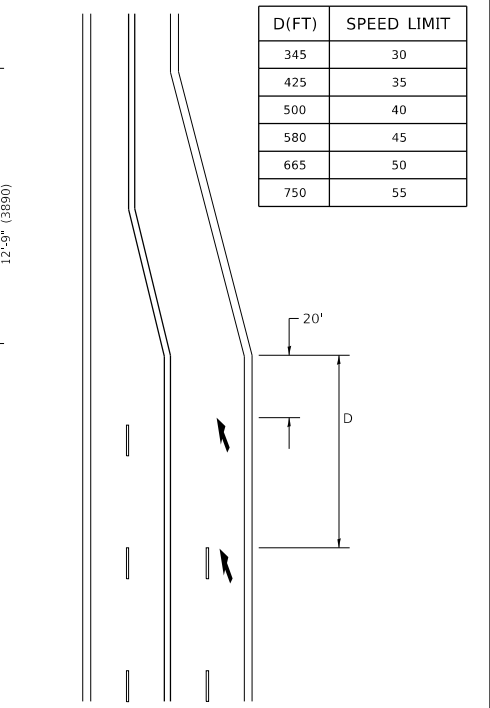
ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN



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

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

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

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

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

MODEL: Default
FILE: \\hpc\p\pub\hpcroom\ada\illinois.gov\PI\DOT\Documents\DOT Office\Bldg\det_1\Project\110419\Cadd\Bldg\Design\Bldg\Std.dgn

USER NAME = rothjp	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - C. JUCIUS 07-01-13
PLOT DATE = 1/31/2020	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
		REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 344	SECTION 2018-139-BR	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 50
TC-13		CONTRACT NO. 62H71		
ILLINOIS		FED. AID PROJECT		

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

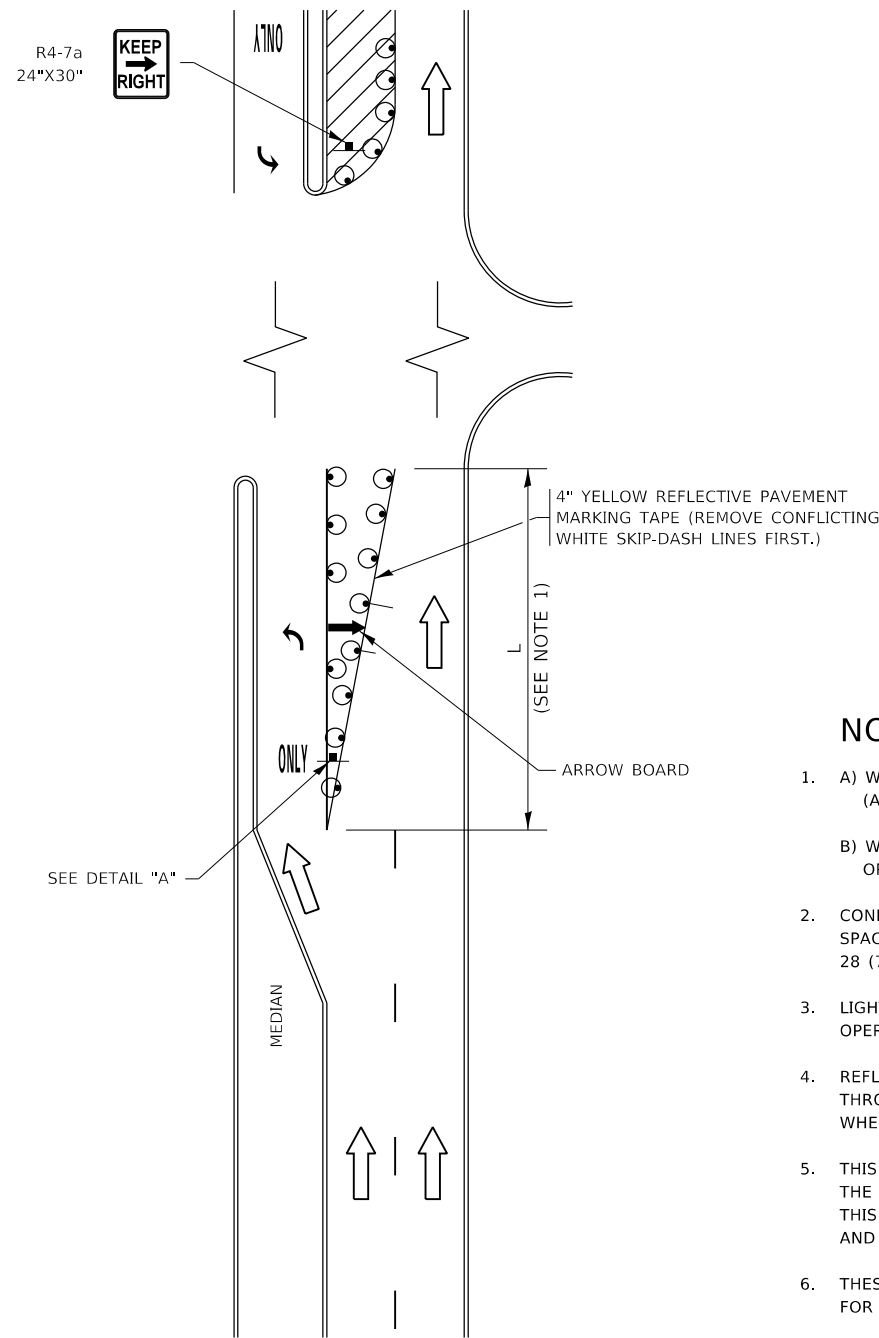


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

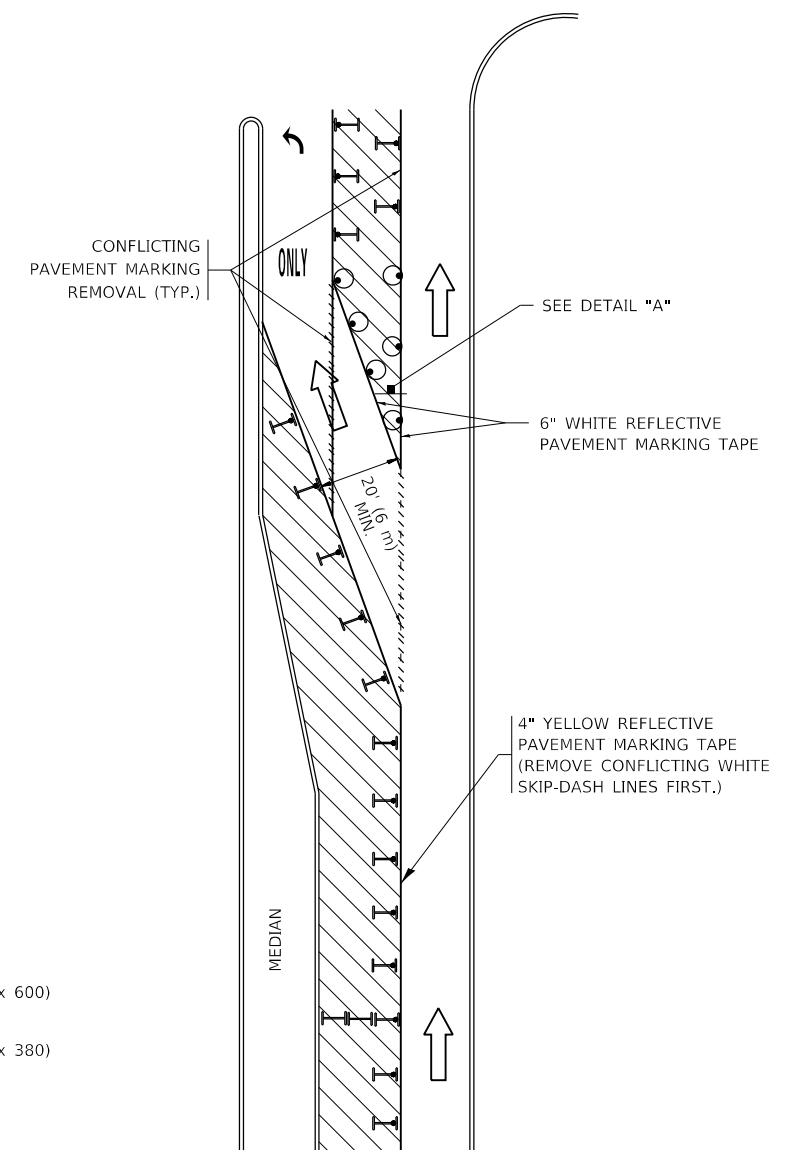


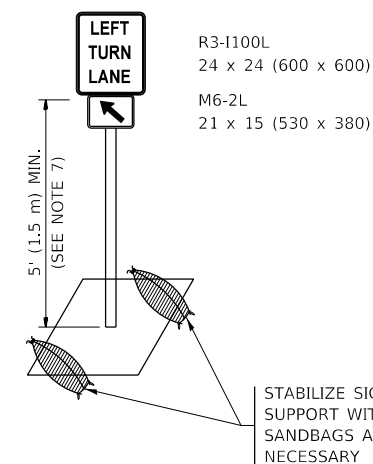
FIGURE 2

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
 B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



DETAIL A

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

MODEL: Default
FILE: \\nrcs-pub\pubroom\dat\illinois.gov\PIWDOT\Documents\DOT_Offices\District_1\Projects\110419\CaddData\Design\DES\4.dgn

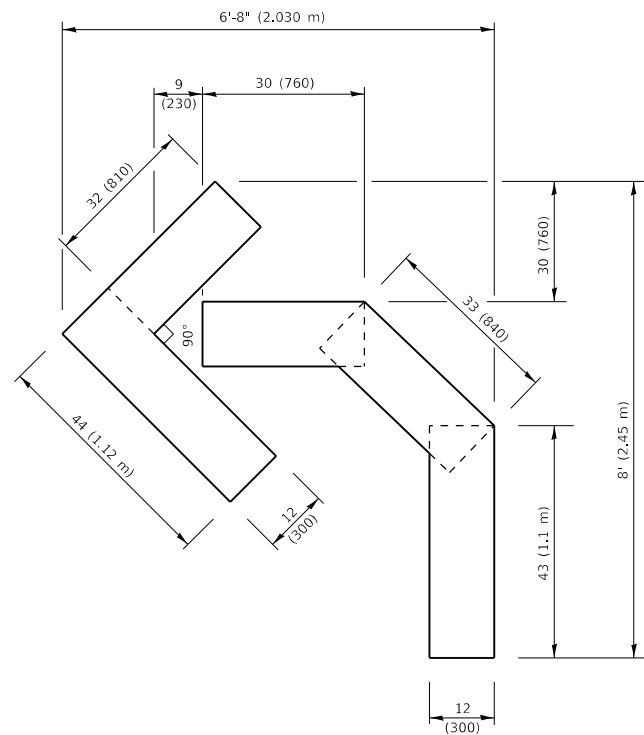
USER NAME = rothjp	DESIGNED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 100,0000' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 1/31/2020	DATE - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

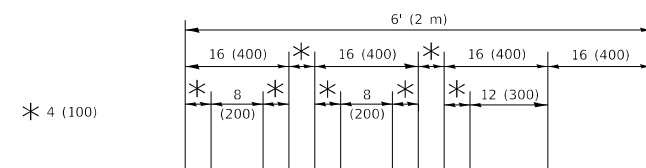
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 344	SECTION 2018-139-BR	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 51
TC-14		CONTRACT NO. 62H71		
ILLINOIS FED. AID PROJECT				



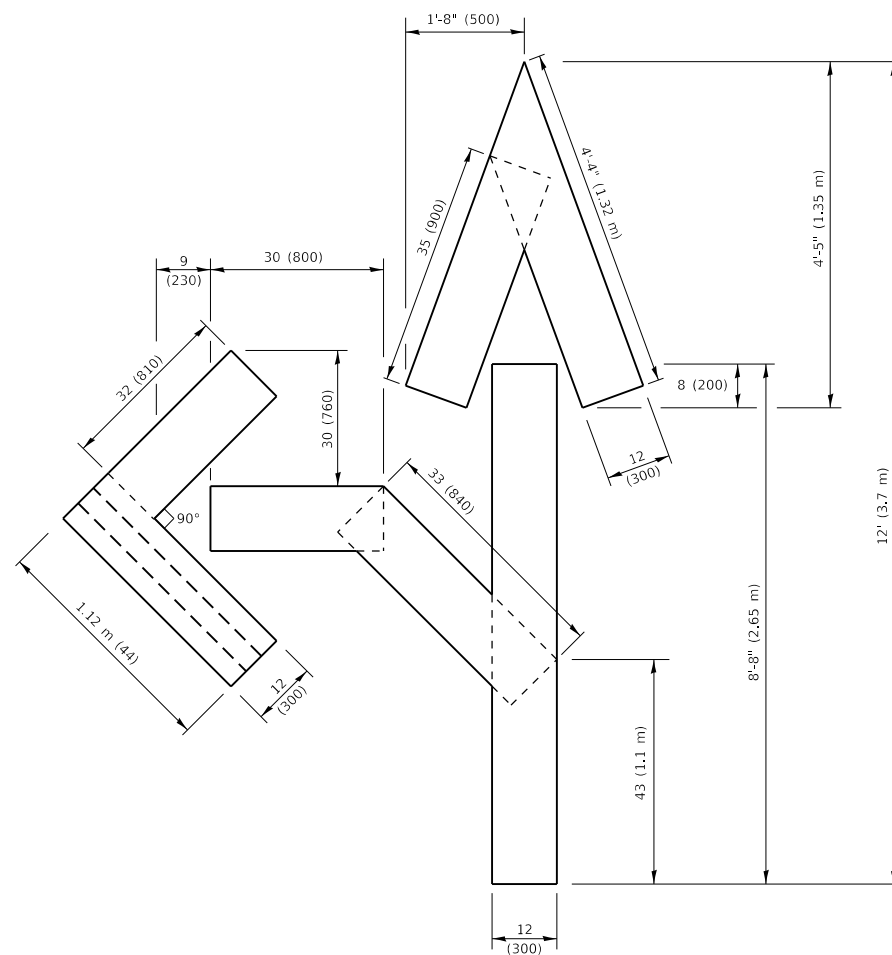
QUANTITY

4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.41 sq. m)



QUANTITY

4 (100) LINE = 64.1 ft. (19.5 m)
21.4 sq. ft. (1.99 sq. m)

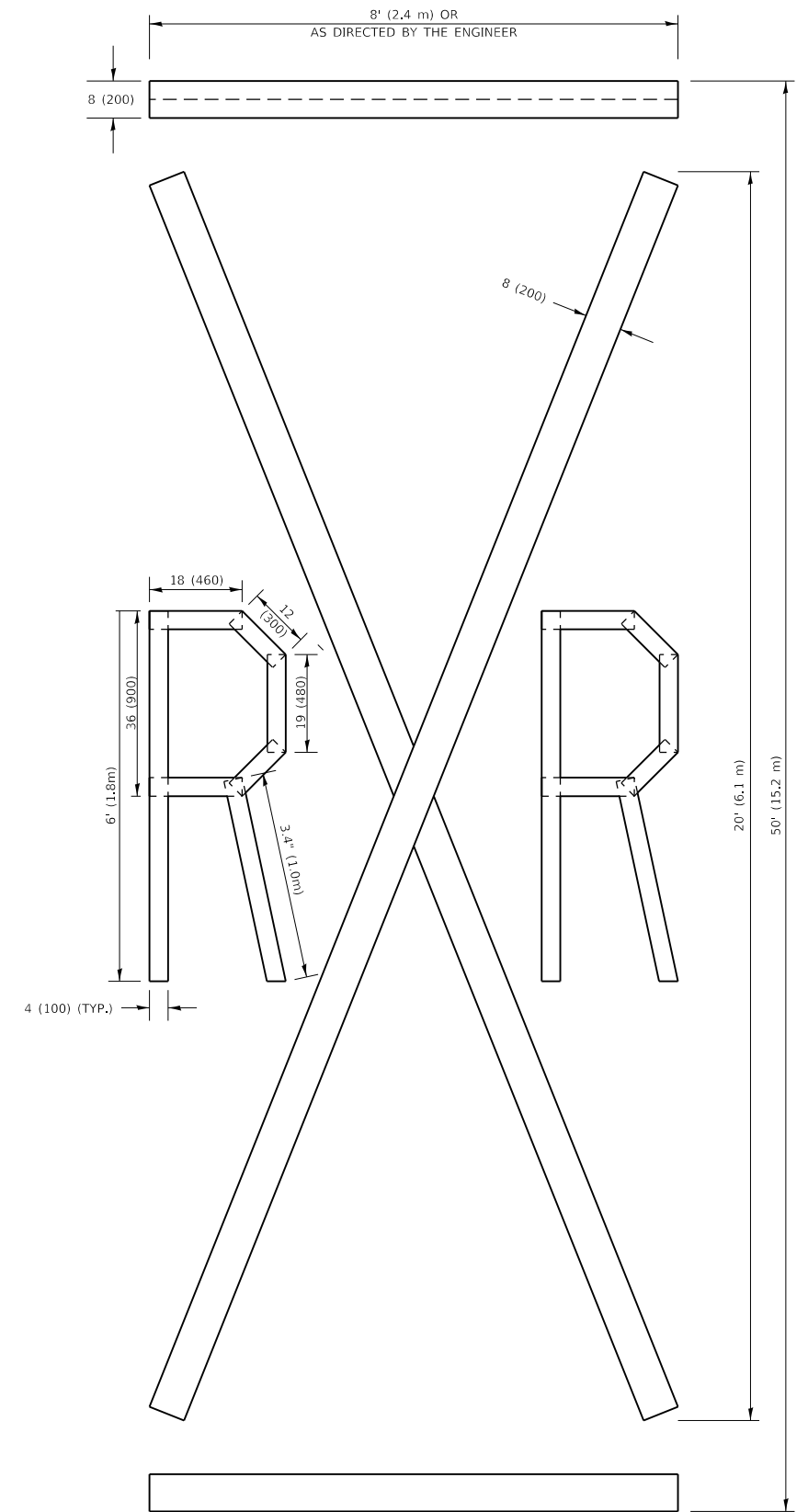


QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m)
27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY

4 (100) LINE = 225.9 ft. (68.9 m)
75.3 sq. ft. (6.99 sq. m)

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

MODEL: Default
FILE NAME: P:\pub\harcam.com.dwg
PROJECT: 10419\CADD\Drawings\Design\BIS\Std.dwg

USER NAME = rothjp	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
PLOT SCALE = 100,0010 ' / In.	DRAWN -	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 1/31/2020	CHECKED -	REVISED - E. GOMEZ 08-28-00
	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

F.A.P. RTE. 344	SECTION 2018-139-BR	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 52
TC-16		CONTRACT NO. 62H71		
ILLINOIS FED. AID PROJECT				

MODEL: Default
 FILE: M4-10-19-CADDData\Design\DESIGN.dwg
 PROJECT: I:\19\CADDData\Design\DESIGN.dwg

ROUTE MARKERS

FOR U.S. ROUTES
M1-40-2424

FOR ILLINOIS ROUTES
M1-50-2424

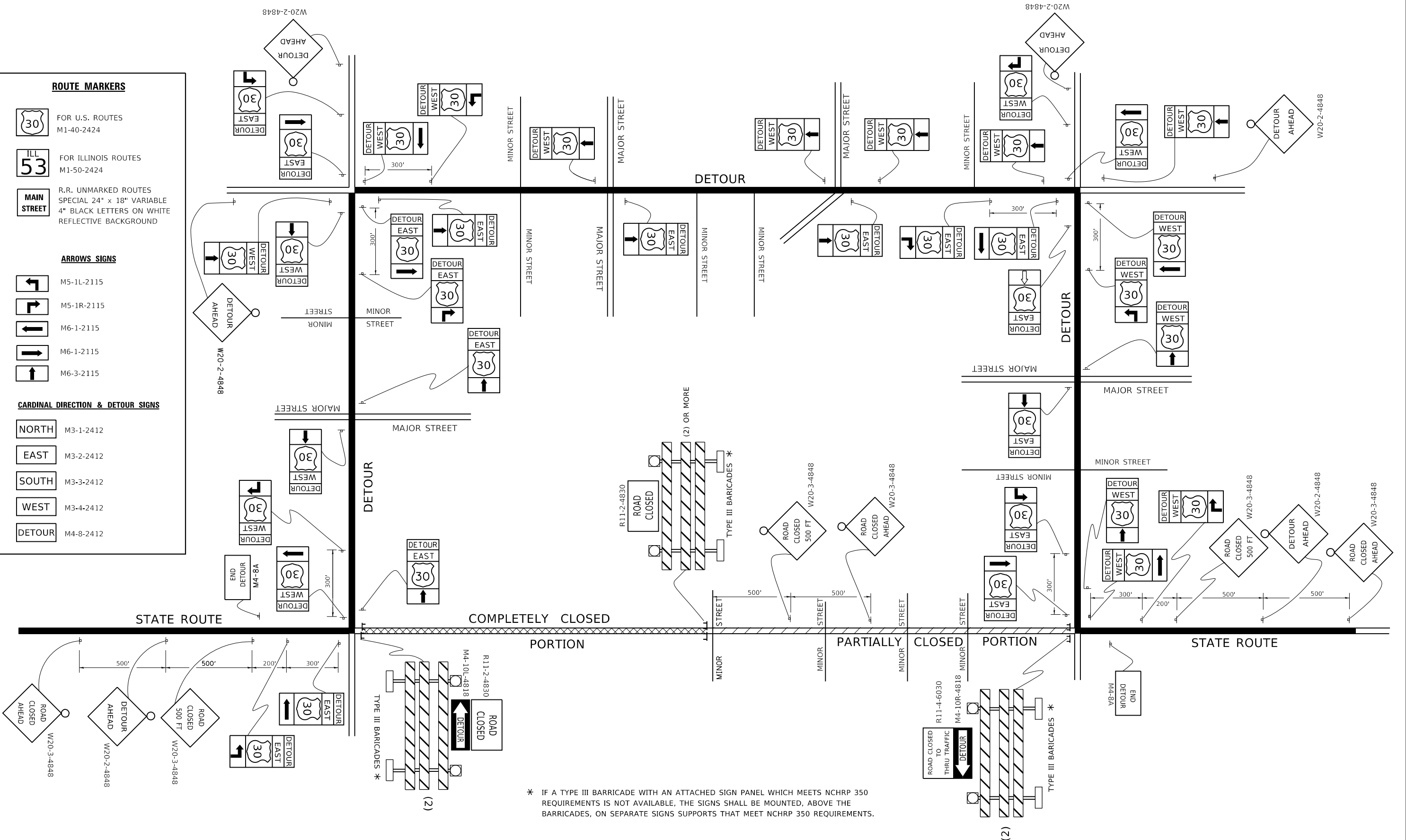
R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115
 M5-1R-2115
 M6-1-2115
 M6-2-2115

CARDINAL DIRECTION & DETOUR SIGNS

NORTH M3-1-2412
 EAST M3-2-2412
 SOUTH M3-3-2412
 WEST M3-4-2412
 DETOUR M4-8-2412



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

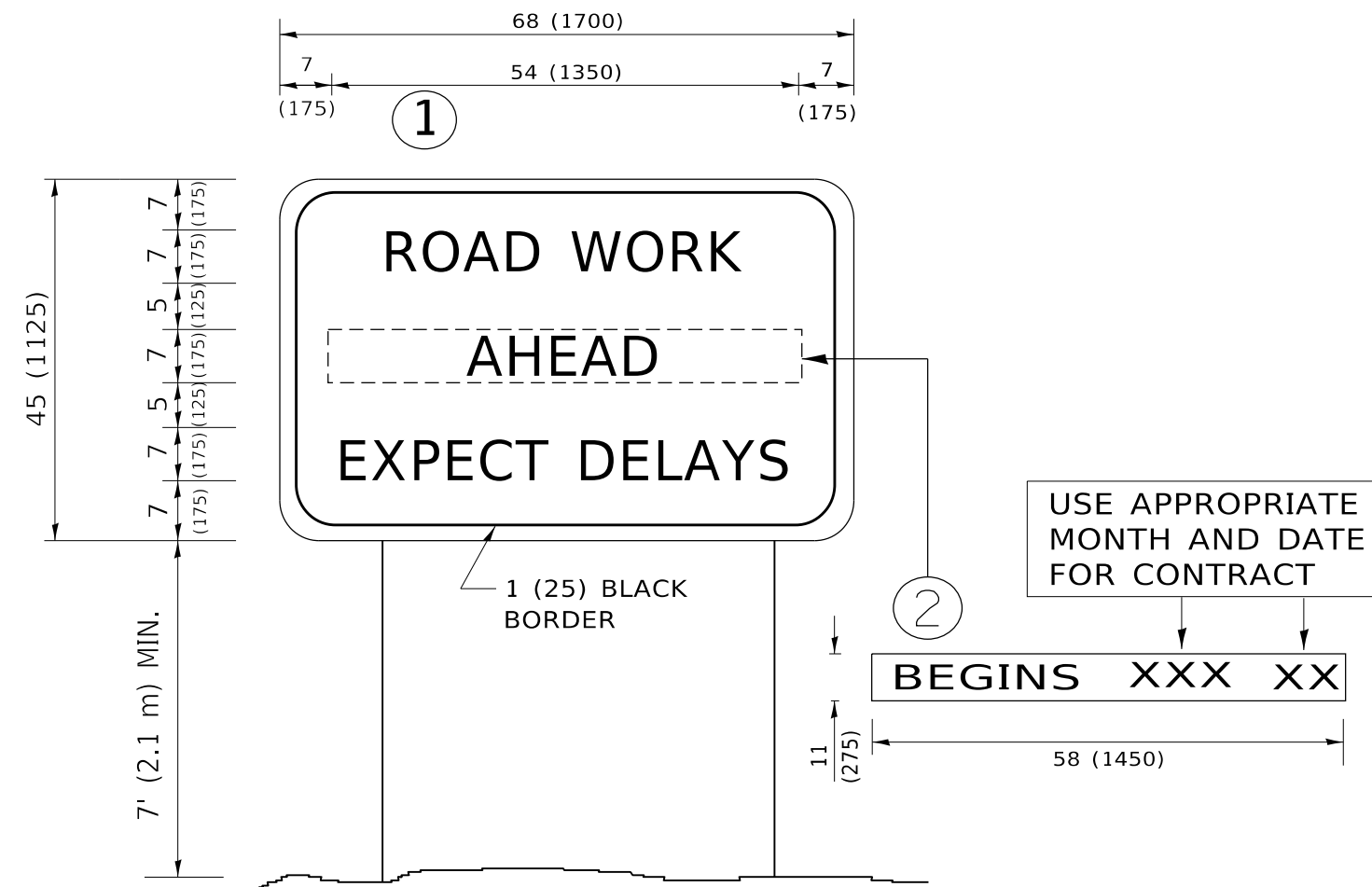
USER NAME = rothjp	DESIGNED -	REVISED - 10-18-02
	DRAWN -	REVISED - R, BORO 09-14-09
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/31/2020	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING
 FOR CLOSING STATE HIGHWAYS**

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

F.A.P. RTE. 344	SECTION 2018-139-BR	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 53
TC-21		CONTRACT NO. 62H71		
ILLINOIS FED. AID PROJECT				



NOTES:

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

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

MODEL: Default
 FILE: \\nas01c.psu.edu\pub\haronomada\illinois.gov\PWIDOT\Documents\DOT_Offices\District_1\Projects\110419\CaddData\Design\DRS\4.dgn

USER NAME = rothjp	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 1/31/2020	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-139-BR	COOK	54	54
TC-22			CONTRACT NO. 62H71	
ILLINOIS FED. AID PROJECT				