

1. COVER SHEET
2. GENERAL NOTES
3. SUMMARY OF QUANTITIES
4. TYPICAL SECTIONS
5. SCHEDULES
6. APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
STANDARD 701400 (SPECIAL)
7. LANE CLOSURE, FREEWAY/EXPRESSWAY
STANDARD 701402 (SPECIAL)
8. STAGES OF CONSTRUCTION
9. TYPICAL PAVEMENT MARKINGS
- 10 - 19. STRUCTURE PLANS

STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 701101-04 OFF-ROAD OPERATIONS MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
- 701426-06 LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≥ 45 MPH
- 701901-03 TRAFFIC CONTROL DEVICES
- 704001-07 TEMPORARY CONCRETE BARRIER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

**FAI ROUTE 57 (I-57)
SECTION (38-6B)I-2**

**BRIDGE REPAIR
S.N. 038-0155 (SB) & S.N. 038-0156 (NB)
OVER SPRING CREEK
2.4 MILES SOUTH OF ONARGA
IROQUOIS COUNTY**

C-93-051-13

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-6B)I-2	IROQUOIS	19	1
ILLINOIS			CONTRACT NO. 66C81	

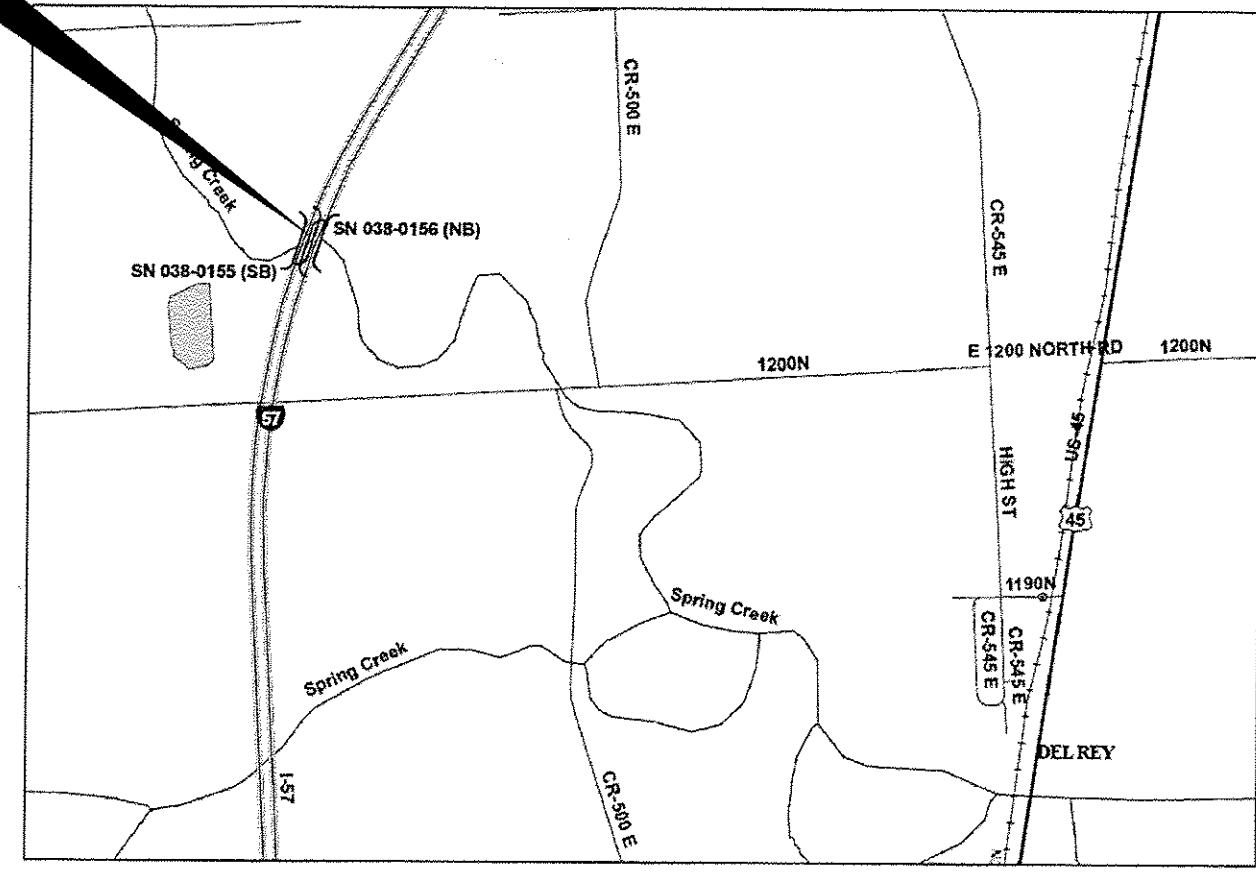
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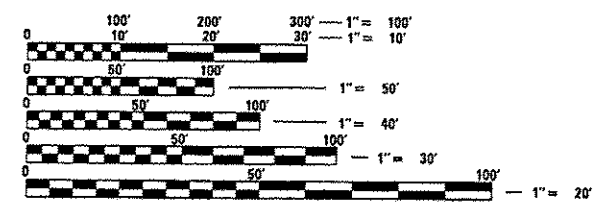
LOCATION OF SECTION INDICATED THUS: - [thick black line]

RURAL	
INTERSTATE	
FAI 57 (I-57)	
2012	
ADT	14900
P.V.	63.76%
S.U.	2.68%
M.U.	33.56%

PROJECT LOCATION
STRUCTURE NO. 038-0155 (SB)
STRUCTURE NO. 038-0156 (NB)
STATION 928 + 50.00



LOCATION MAP
POINT LOCATION
NOT TO SCALE



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 EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER JOE KANNEL P.E.
UNIT CHIEF RON WOODSHANK
TOWNSHIP ONARGA
CONTRACT NO. 66C81

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Paul A. [Signature] 2/13
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

John D. Baranzelli, P.E. 2/14
ENGINEER OF DESIGN AND ENVIRONMENT

Omer Osman, P.E. 2/14
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

GENERAL NOTES

FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

DATE: 12-9-13

PREPARED BY: Tom Brand
DISTRICT STUDIES & PLANS ENGINEER

EXAMINED BY: Robert J. ...
DISTRICT CONSTRUCTION ENGINEER

Ray L. ...
DISTRICT MATERIALS ENGINEER

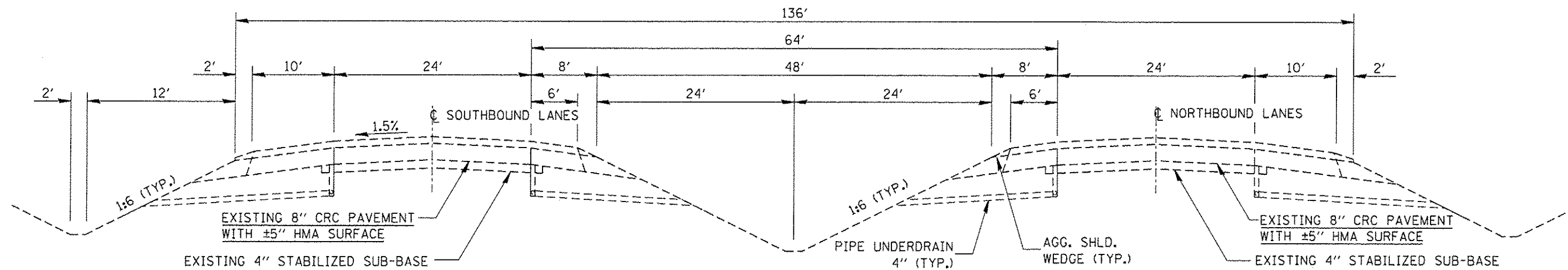
James A. ...
DISTRICT OPERATIONS ENGINEER

FILE NAME =	USER NAME = woodshankr	DESIGNED - RW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\woodshankr\d8325865\366C81-ah1-details.dgn	DRAWN - RW	REVISED -	57			(38-6B)-2	IROQUOIS	19	2	
#MODELNAME#	PLOT SCALE = 100.00' / 1" =	CHECKED -	REVISED -			CONTRACT NO. 66C81				
	PLOT DATE = 11/15/2013	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.										

CODE NO.	ITEM	UNIT	CONSTR. CODE
			CONTRACT MAINT
			100% STATE
			ROADWAY
			0014
			RURAL
50102400	CONCRETE REMOVAL	CU YD	179.2
50300100	FLOOR DRAINS	EACH	14
50300255	CONCRETE SUPERSTRUCTURE	CU YD	197
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	60740
50300300	PROTECTIVE COAT	SQ YD	500
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	1214
50800515	BAR SPLICERS	EACH	72
50800530	MECHANICAL SPLICERS	EACH	1416
52000110	PREFORMED JOINT STRIP SEAL	FOOT	169
67100100	MOBILIZATION	L SUM	1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	395
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1105
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	3
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	2214
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	1150
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1306
X0326867	RADAR SPEED TRAILER	CAL MO	3
X0326880	MESSAGE BOARD VEHICLE DRIVER	HOUR	350
X0326907	PORTABLE, VEHICLE MOUNTED, CHANGEABLE MESSAGE SIGN	CAL MO	2
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	1

* SPECIALITY ITEMS

FILE NAME =	USER NAME = Pateljy	DESIGNED - RW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\p-work\p-dot\pateljy\0325905\0366	01-shr-detaila.dgn	DRAWN - RW	REVISED -			57	38-6B11-2	IRROODOIS	19	3	
	PLOT SCALE = 100.0000 1/4 in.	CHECKED -	REVISED -			CONTRACT NO. 66CBI					
MODELNAME#	PLOT DATE = 1/15/2014	DATE -	REVISED -			SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

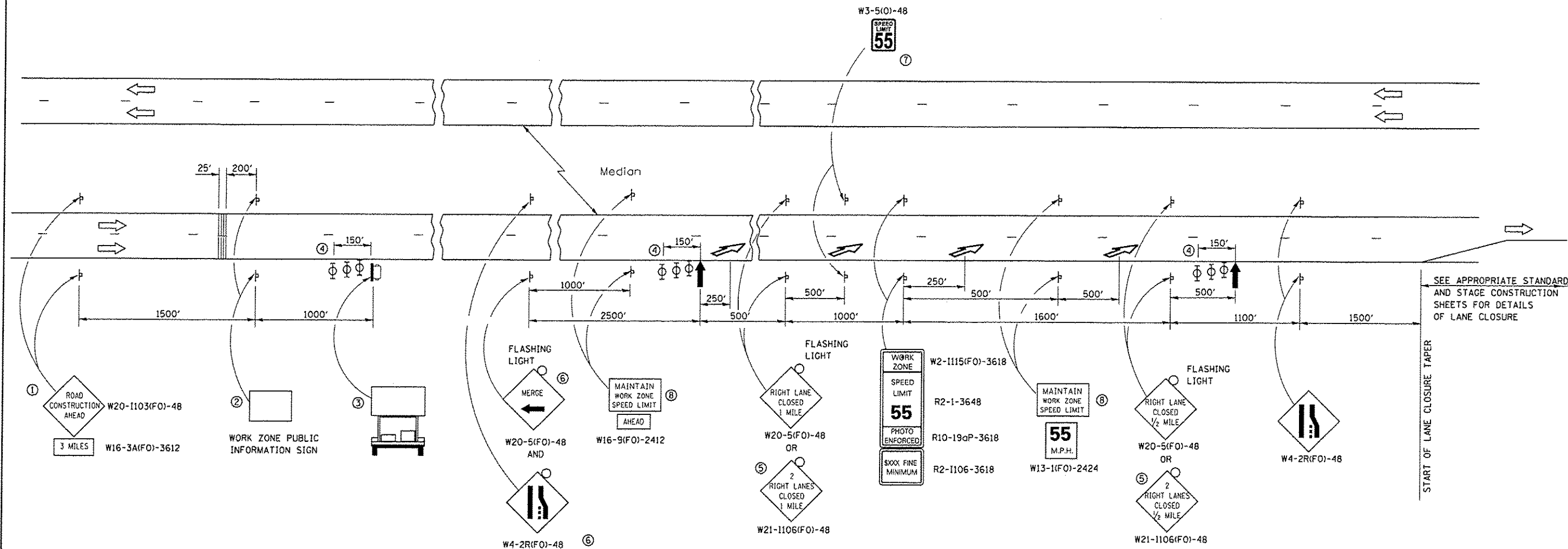


TYPICAL SECTION

FILE NAME :	USER NAME : woodhankr	DESIGNED - RW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwwork\pwwork\woodhankr\d0325865\0368C81-ehd.dwg	0368C81-ehd.dwg	DRAWN - RW	REVISED -			57	(38-68)-2	IRROUOIS	19	4	
PLOT SCALE = 1/8" = 1' / in.		CHECKED -	REVISED -			CONTRACT NO. 66C81					
PLOT DATE = 11/15/2013		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.				

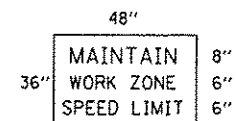
LOCATION	PAVEMENT MARKING REMOVAL	MODIFIED URETHANE PAVEMENT MARKING LINE 4"		MODIFIED URETHANE PAVEMENT MARKING LINE 6"
	SQ FT	FOOT		FOOT
		YELLOW	WHITE	
038-0155				
STAGE I	513			
STAGE II	140	683	424	575
038-0156				
STAGE III	513			
STAGE IV	140	683	424	575
SUBTOTAL		1366	848	
TOTAL	1306	2214		1150

LOCATION	TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS TEMPORARY NON-REDIRECTIVE TEST LEVEL 3	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS RELOCATE NON-REDIRECTIVE TEST LEVEL 3
	FOOT	FOOT	FOOT	FOOT
		YELLOW		YELLOW
038-0155				
STAGE I	395	1		
STAGE II			395	1
038-0156				
STAGE III			355	1
STAGE IV			355	1
TOTAL	395	1	1105	3



- ① THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 MILES IN ADVANCE OF THE PROJECT LIMITS.
- ② THE MESSAGE AND SIZE OF THE WORK ZONE PUBLIC INFORMATION SIGN SHALL BE AS SPECIFIED BY THE DEPARTMENT.
- ③ TO BE PLACED IN THE MEDIAN WHEN FEASIBLE. THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE:
"RIGHT LANE CLOSED" / " x MILES AHEAD"
"LEFT LANE CLOSED" / " x MILES AHEAD"
"ALL LANES OPEN"
- ④ THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 50' CENTERS.
- ⑤ THIS SIGN SHALL BE USED WHEN 2 LANES ARE CLOSED.
- ⑥ WHEN THE LEFT LANE IS CLOSED, SWITCH THESE TWO SIGNS AND THE DIRECTION OF THE MERGE ARROW.
- ⑦ THIS SIGN SHALL ONLY BE USED IF THE EXISTING SPEED LIMIT IS GREATER THAN 65 MPH.

⑦ 48"x36" FLUORESCENT ORANGE SIGN WITH BLACK LETTERS.



- ↑ ARROW BOARD
- ▭ PORTABLE CHANGEABLE MESSAGE SIGN
- ⊥ SIGN
- ⊕ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- ↘ LANE DROP ARROW - SEE STANDARD 780001
- ▧ TEMPORARY RUMBLE STRIPS

GENERAL NOTE:

THIS STANDARD IS USED WHERE AT ANY TIME A LANE IS CLOSED ON A FREEWAY/EXPRESSWAY.

WHEN THE LEFT LANE IS CLOSED, LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR THE RIGHT LANE CLOSED SIGNS.

THE FIRST TWO SIGNS AND THE MESSAGE BOARD ARE STATIONARY. THE OTHER SIGNS AND ARROWBOARDS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).

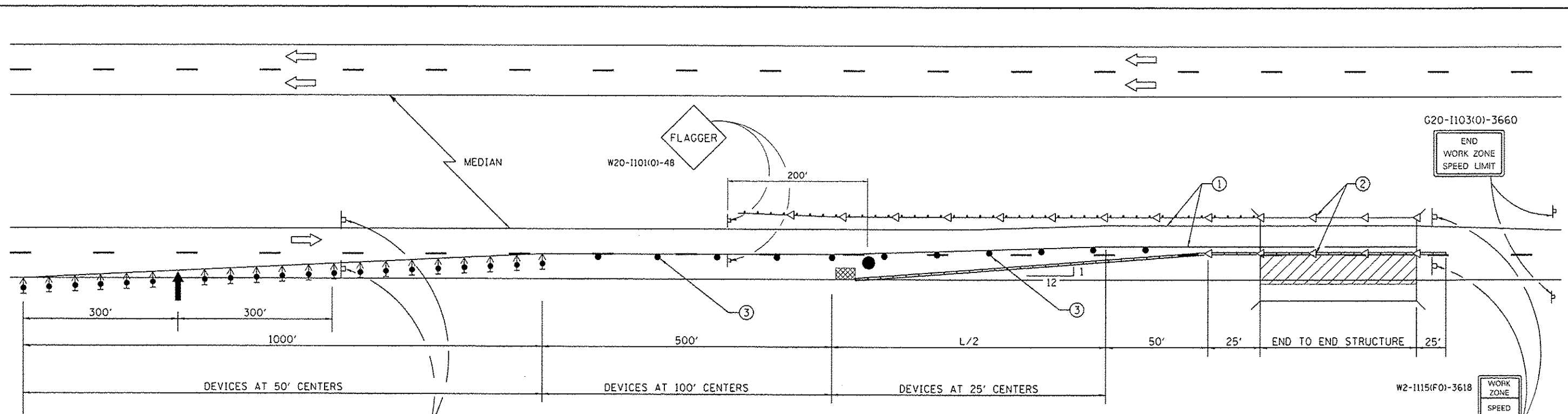
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	PLOT SCALE = 100.00' / 1"	CHECKED -	REVISED -
MODELNAME#	PLOT DATE = 11/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
STANDARD 701400 (SPECIAL)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-EB)-2	IRROUOIS	19	6
CONTRACT NO. 66C81			ILLINOIS FED. AID PROJECT	



See Standard 701400 for approach
Start of lane closure taper

WORK ZONE
SPEED LIMIT
45
PHOTO ENFORCED
SXXX FINE MINIMUM

W2-1115(F0)-3618
R2-1-3648
R10-19oP-3618
R2-1106-3618

WORK ZONE
SPEED LIMIT
55
PHOTO ENFORCED
SXXX FINE MINIMUM

W2-1115(F0)-3618
R2-1-3648
R10-19oP-3618
R2-1106-3618

SYMBOLS

- ARROW BOARD
- WORK AREA
- SIGN
- TRAFFIC CONTROL DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- MONODIRECTIONAL BARRIER WALL/GUARDRAIL MARKER
- IMPACT ATTENUATOR
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT

GENERAL NOTES

THIS STANDARD IS USED WHERE AT ANY TIME ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES WILL ENCROACH ON THE PAVEMENT OR ON THE SHOULDER WITHIN 24 INCHES OF THE EDGE OF PAVEMENT FOR DAYLIGHT OPERATION EXCEEDING ONE DAY AND WHERE TEMPORARY CONCRETE BARRIER IS UTILIZED.

THIS STANDARD MUST BE USED IN COMBINATION WITH STANDARD 701400 (SPECIAL).

WHEN WORK IS BEING PERFORMED IN THE LEFT LANE, THE SET UP WOULD BE A MIRROR IMAGE TO WHAT IS SHOWN.

FLAGGER, FLAGGER SIGNS SHALL BE REQUIRED WHENEVER TEMPORARY CONCRETE BARRIER IS NOT IN PLACE. WHEN TEMPORARY CONCRETE BARRIER IS IN PLACE, THE FLAGGER SIGNS SHALL BE REMOVED OR COVERED.

SPEED LIMITS SIGNS SHALL BE REQUIRED WHENEVER A LANE CLOSURE IS IN PLACE. THE SPEED LIMIT SIGNS SHALL REMAIN UNTIL SUCH TIME THAT THE LANE IS OPEN TO ALL TRAFFIC.

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

CALCULATE L AS FOLLOWS:

FORMULA
 $L = (W)(S)$

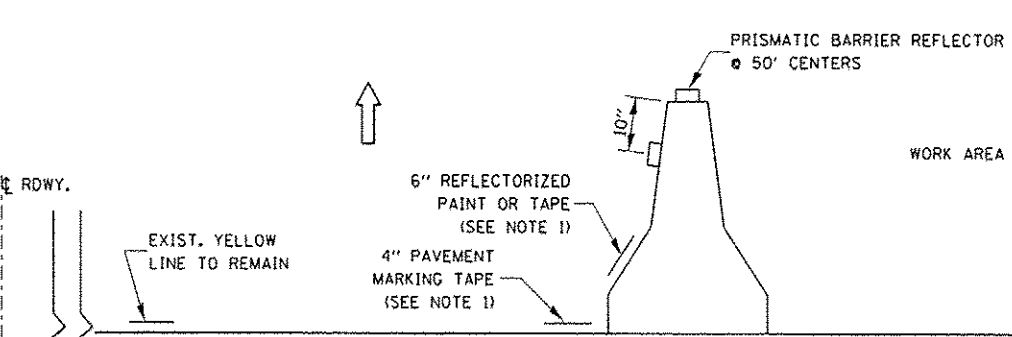
45 MPH OR MORE

W = WIDTH OF OFFSET
IN FEET

S = NORMAL POSTED
SPEED

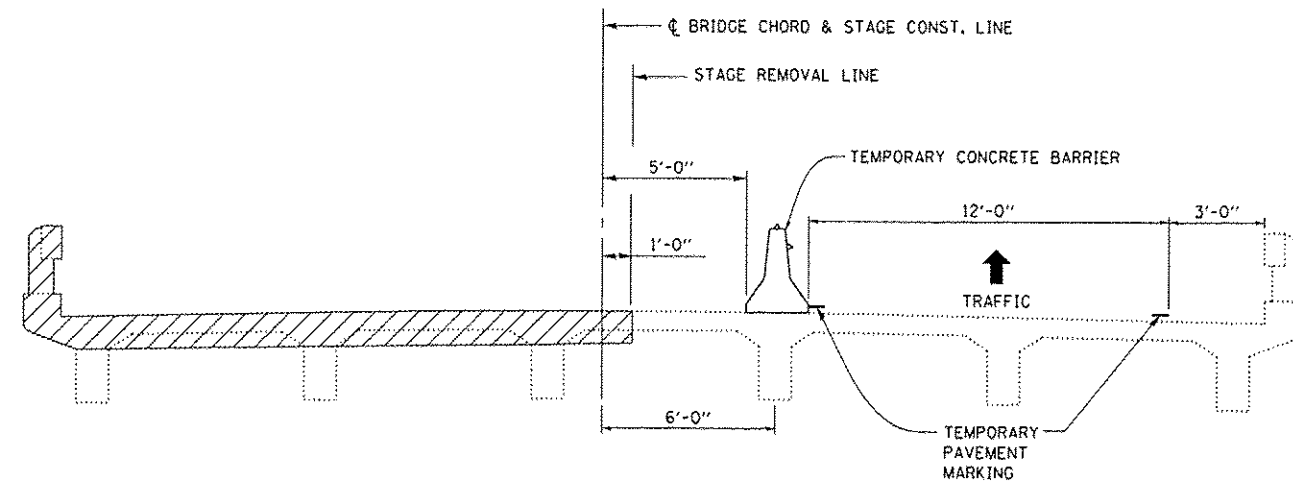
- NOTES:
- THE CONTRACTOR HAS THE OPTION OF USING EITHER THE LINE ON THE TEMPORARY CONCRETE BARRIER OR ON THE PAVEMENT.
 - THE COLOR OF THE REFLECTORS AND PAVEMENT/BARRIER MARKING LINE WILL VARY WITH STAGING AND SHALL MATCH THE EXISTING LINE IN THE WORK AREA.
 - THE COST OF THE REFLECTORS AND THE PAVEMENT/BARRIER MARKING LINE IS INCLUDED IN THE COST OF THE TEMPORARY CONCRETE BARRIER.

**TRAFFIC CONTROL DETAIL
FOR TEMPORARY CONCRETE BARRIER**

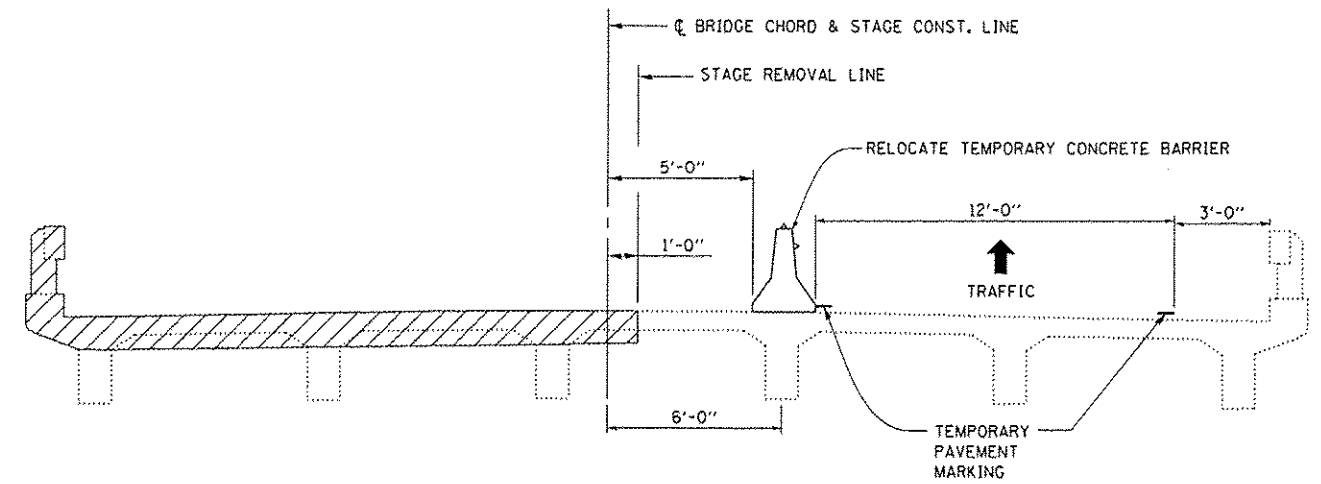


- TEMPORARY PAVEMENT MARKING TAPE OR EXISTING PAVEMENT MARKING SHALL BE PLACED THROUGHOUT THE TAPER AND ALONGSIDE THE WORK AREA. THE RIGHT EDGE LINE SHALL BE WHITE AND THE LEFT EDGE LINE SHALL BE YELLOW.
- BARRIER WALL/GUARDRAIL MARKERS AT 25' MARKERS ON RIGHT SHALL BE CRYSTAL AND MARKERS ON LEFT SHALL BE AMBER. COST INCLUDED WITH TEMPORARY CONCRETE BARRIER.
- EXCEPT AS SHOWN TRAFFIC CONTROL DRUMS SHALL BE USED IN LANE CLOSURES.

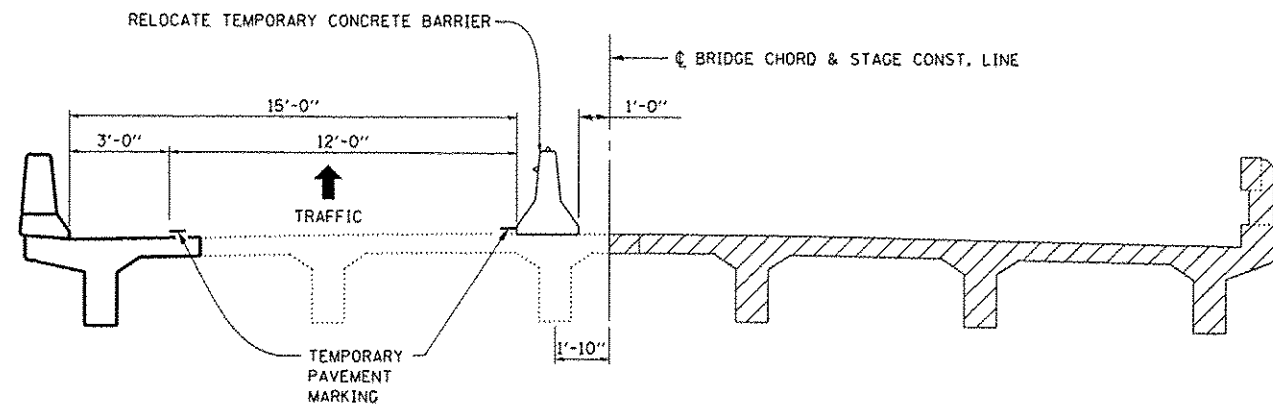
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6:\pwwork\pwwork\woodshankr1\0325865\336601-sh-t-detail.dgn	DRAWN - RW	REVISED -	57			138-6B1-2	IR00001S	19	7	
MODEL NAME :	PLOT SCALE = 100.00' = 1" IN.	CHECKED -	REVISED -			CONTRACT NO. 66C81				
	PLOT DATE = 11/19/2013	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				



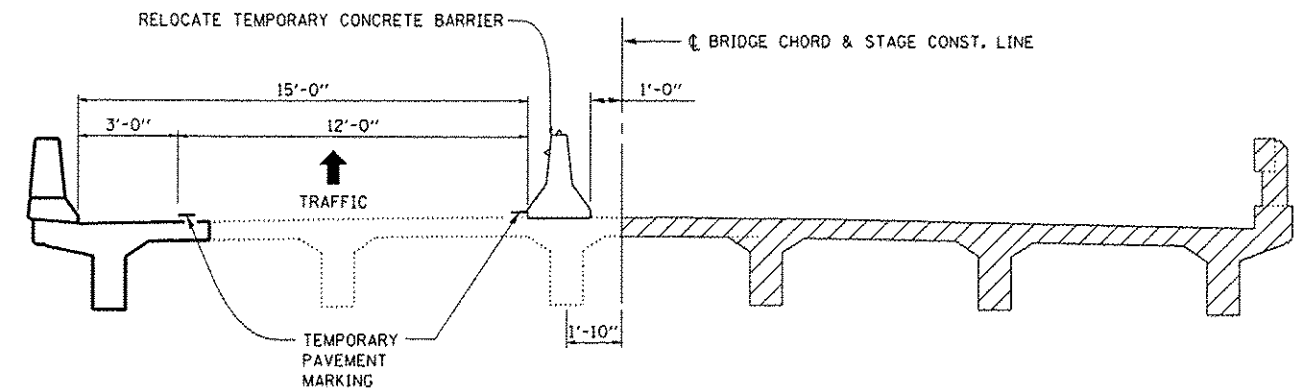
**CROSS SECTION
STAGE I
STRUCTURE NO. 038-0155 (SB)**



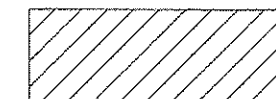
**CROSS SECTION
STAGE III
STRUCTURE NO. 038-0156 (NB)**



**CROSS SECTION
STAGE II
STRUCTURE NO. 038-0155 (SB)**

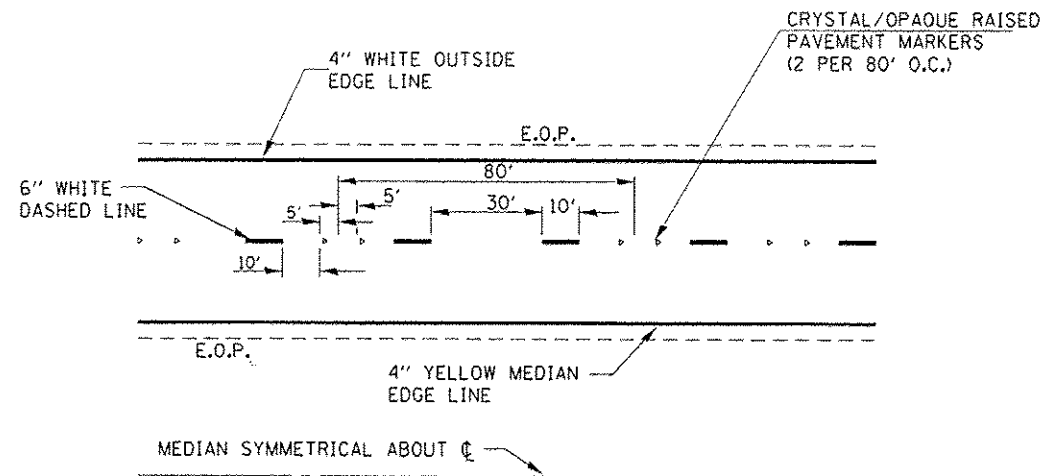


**CROSS SECTION
STAGE IV
STRUCTURE NO. 038-0156 (NB)**

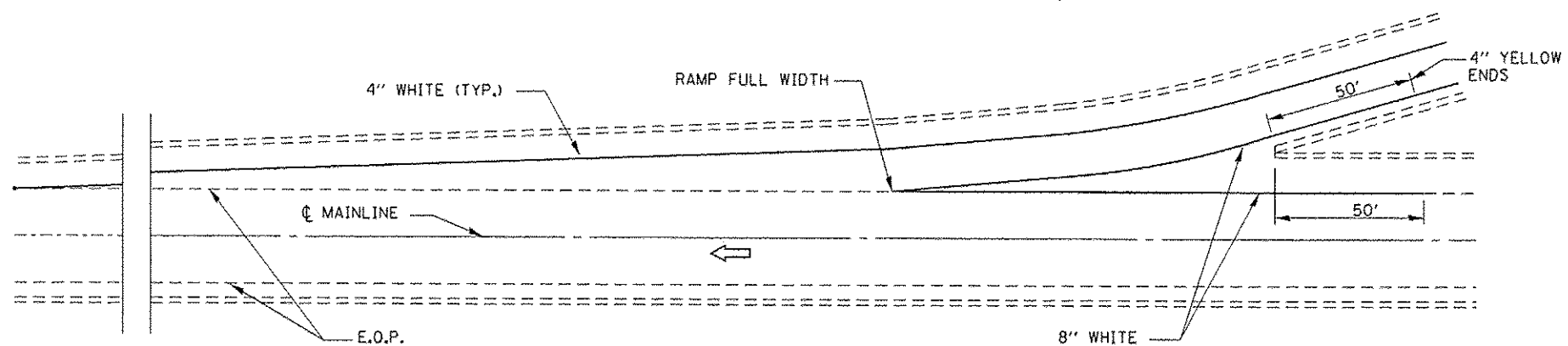


WORK ZONE

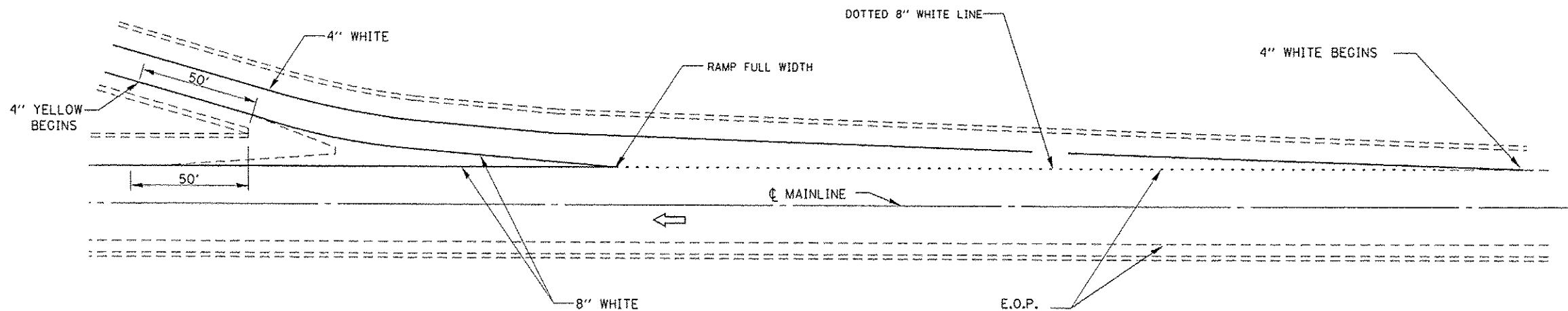
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c:\pwork\pvidot\woodshank-1\d0325865	woodshankr1	DRAWN -	REVISED -				57	138-651-2	IROQUOIS	19	8
MODELNAME		CHECKED -	REVISED -		SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.		CONTRACT NO. 66C81				
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT						



TYPICAL PAVEMENT MARKINGS



TYPICAL PAVEMENT MARKING FOR ENTRANCE RAMP TERMINALS



TYPICAL PAVEMENT MARKINGS FOR EXIT RAMP TERMINALS

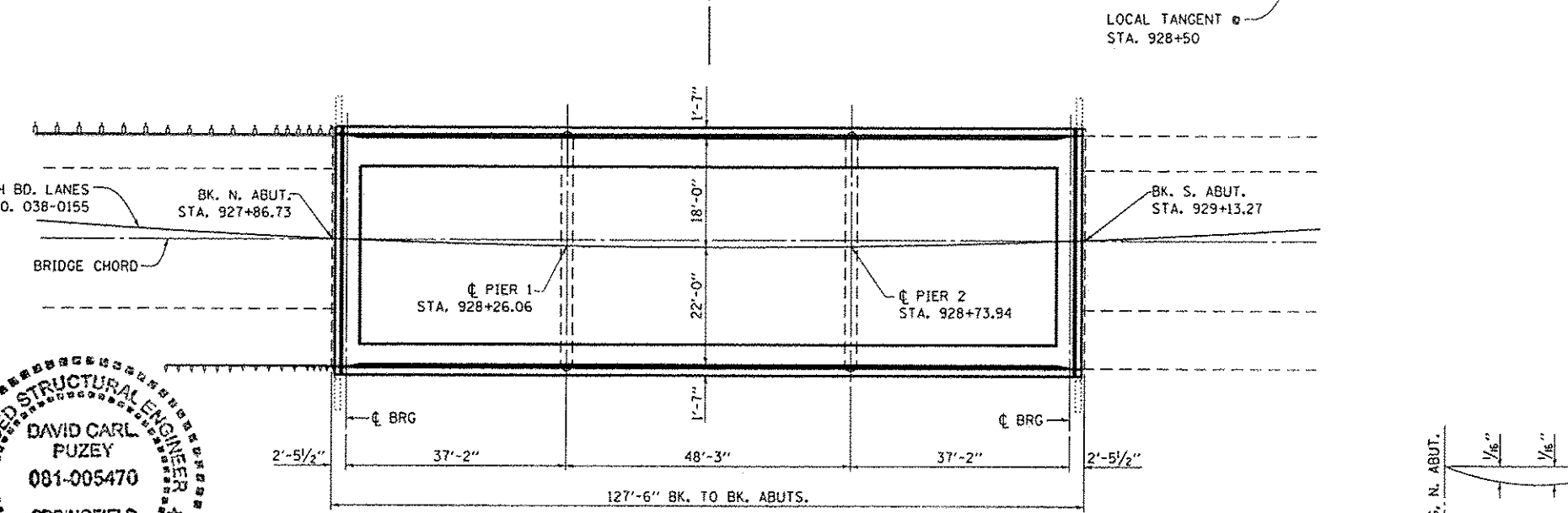
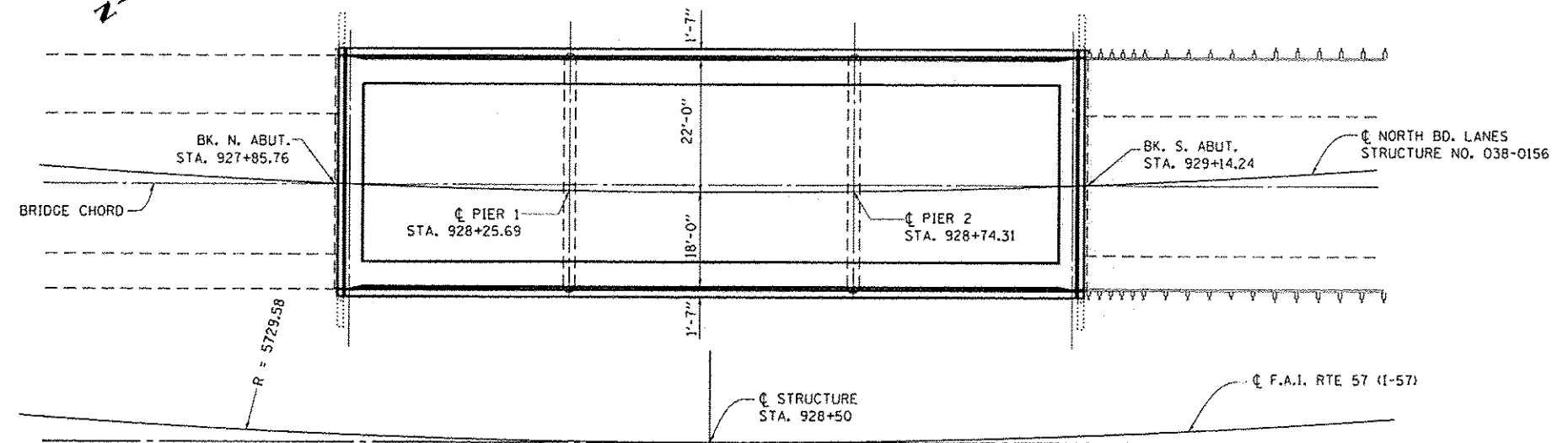
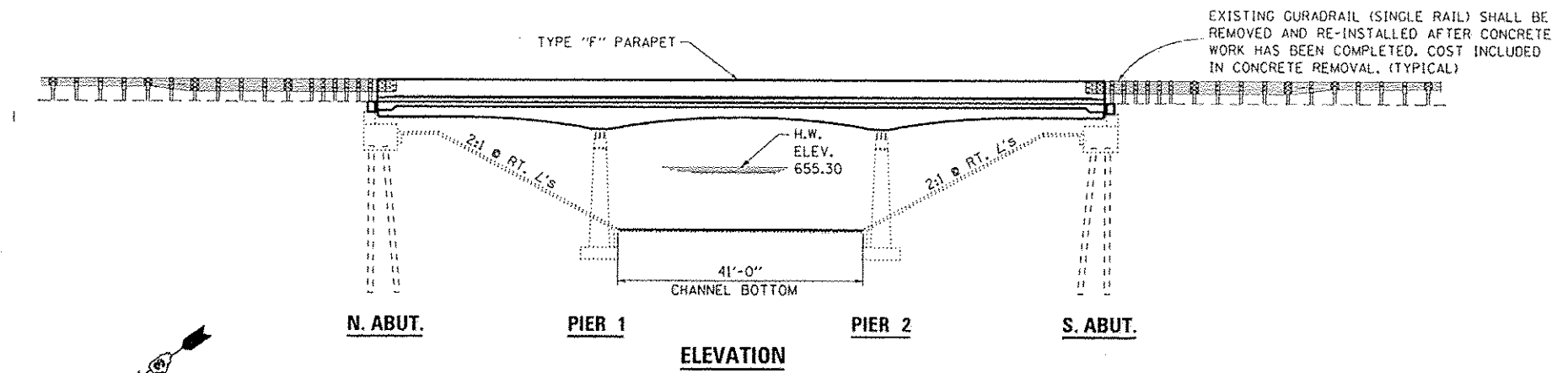
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		CHECKED -	REVISED -
		DATE -	REVISED -
#MODELNAME*			
	PLOT SCALE * 100.00' / in.		
	PLOT DATE * 11/15/2013		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL PAVEMENT MARKINGS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-68)1-2	ILLINOIS	19	9
CONTRACT NO. 66C81				
ILLINOIS FED. AID PROJECT				



David Carl Puzey 1/23/14
Expires 11/30/14

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 WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT BID PRICE FOR THE WORK.

ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO CLASSIFICATION M-270 GR 36, UNLESS OTHERWISE NOTED.

THE DECK SHALL HAVE ITS FINAL FINISH TINED ACCORDING TO ARTICLE 420.09(a)(1) OF THE STANDARD SPECIFICATIONS. COST INCLUDED WITH CONCRETE SUPERSTRUCTURES.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

THE CONTRACTOR SHALL MAKE ALLOWANCE FOR THE DEFLECTION OF FORMS, SHRINKAGE AND SETTLEMENT OF FALSEWORK, IN ADDITION TO ALLOWANCE FOR DEAD LOAD DEFLECTION.

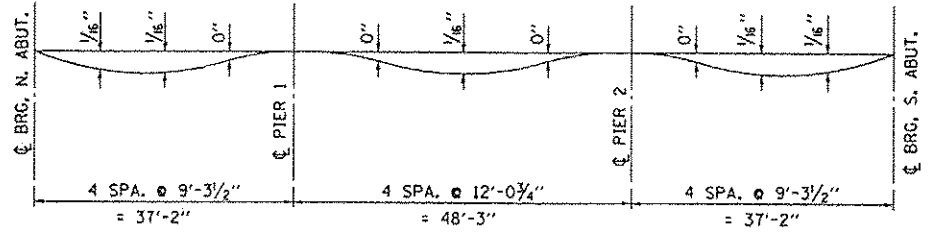
EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

JOINT OPENING SHALL BE ADJUSTED ACCORDING TO ARTICLE 520.04 OF THE STANDARD SPECIFICATIONS WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50 DEGREES F.

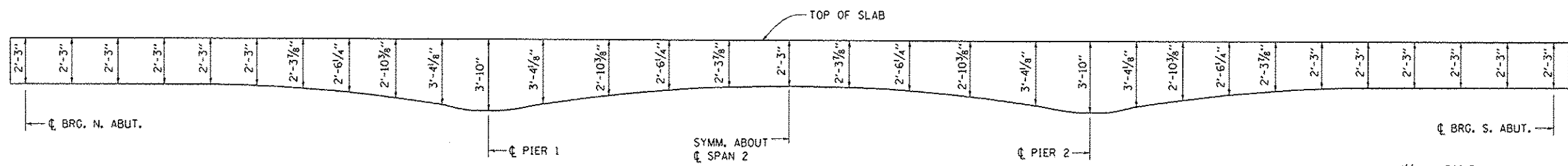
**2 SUPERSTRUCTURES
TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU. YD.	179.2
CONCRETE SUPERSTRUCTURE	CU. YD.	197
FLOOR DRAINS	EACH	14
REINFORCEMENT BARS	POUND	60740
EPOXY COATED		
BAR SPLICERS	EACH	72
MECHANICAL SPLICERS	EACH	1416
PREFORMED JOINT STRIP SEAL	FOOT	168
F & E STRUCTURAL STEEL	POUND	1214
PROTECTIVE COAT	SQ. YD.	500

* SEE SHEET 15 OF 19 FOR TOP PLATE LOCATION
** TO BE USED ON ALL NEW PLACED CONCRETE.



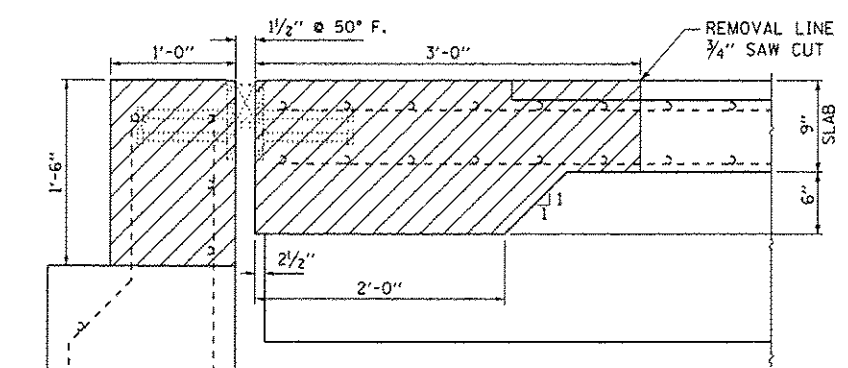
DEAD LOAD DEFLECTON DIAGRAM



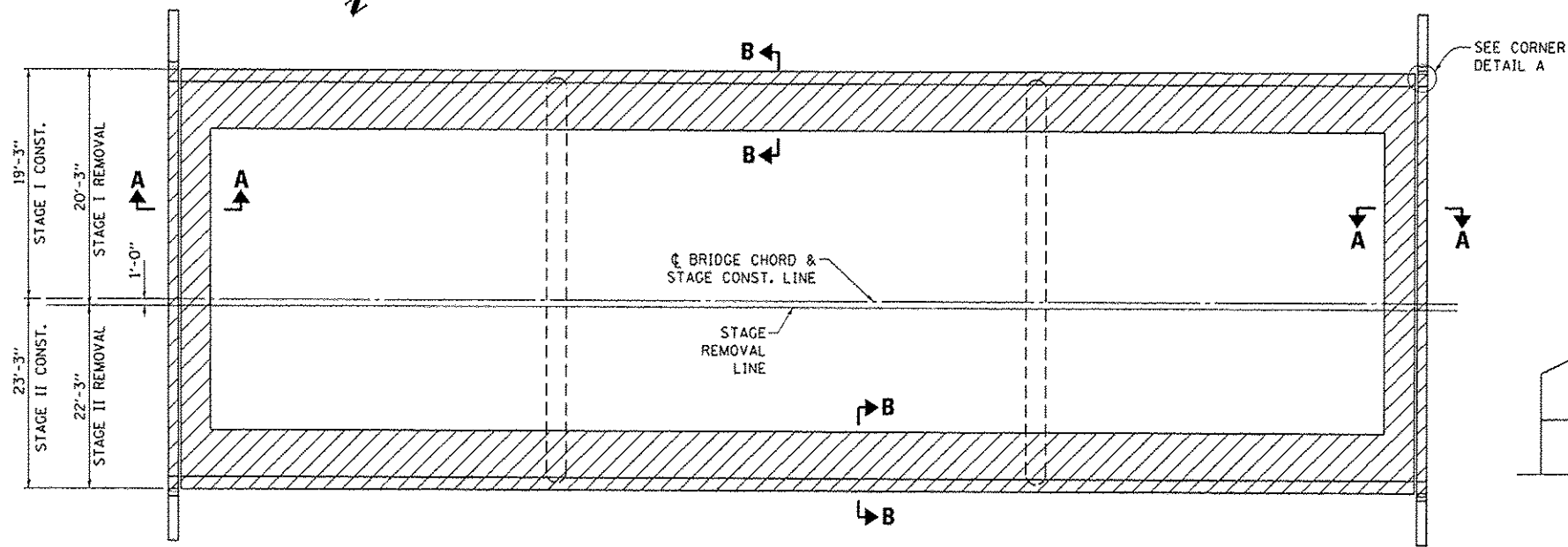
GIRDER ORDINATES (ALL GIRDERS)

SUPERSTRUCTURE REMOVAL AND REPLACEMENT

NOTE:
EXISTING TRANSVERSE DECK REINFORCEMENT EXTENDING INTO REMOVAL AREA SHALL BE CUT OFF 6" FROM FACE OF REMOVAL LINE. TYPICAL EACH SIDE.

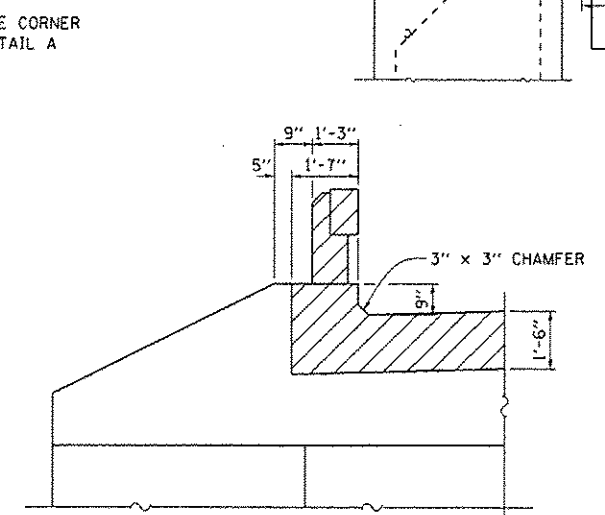


SECTION A-A
DIMENSIONS AT RT. L's

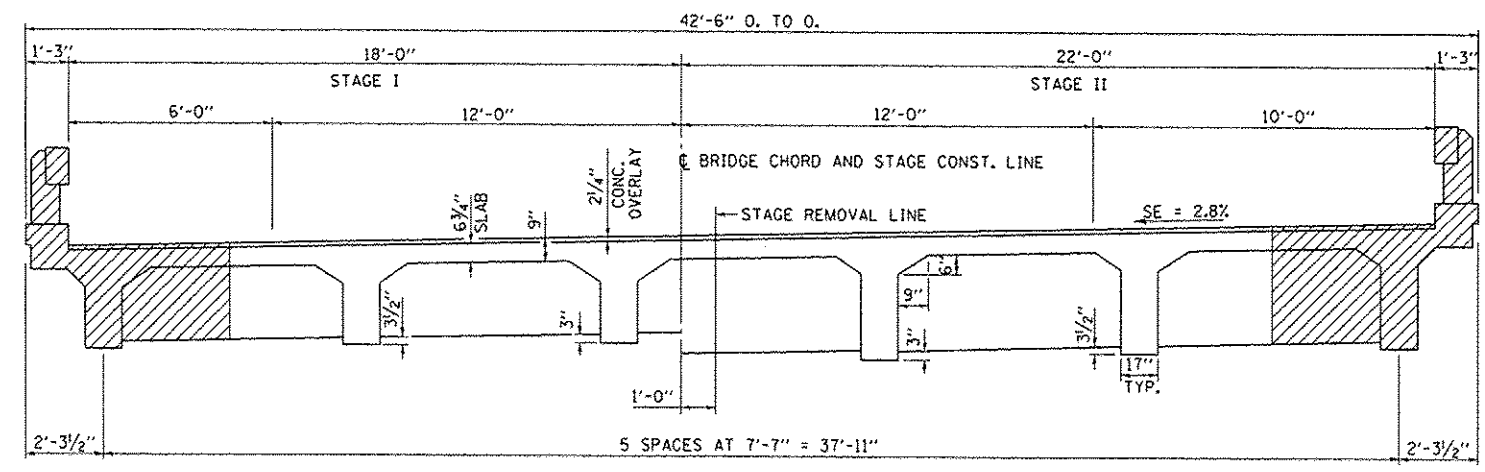


PLAN

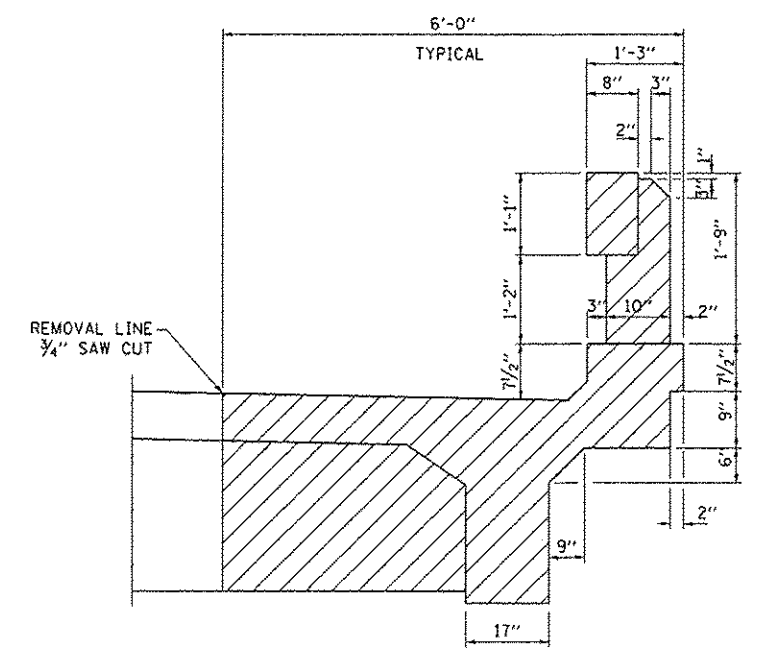
SOUTHBOUND STRUCTURE (038-0155) SHOWN
NORTHBOUND STRUCTURE (038-0156) SIMILAR
THRU 180 DEG. ROTATION ABOUT CENTERLINE OF FAI 57



CORNER DETAIL A
(TYPICAL)



CROSS SECTION



SECTION B-B

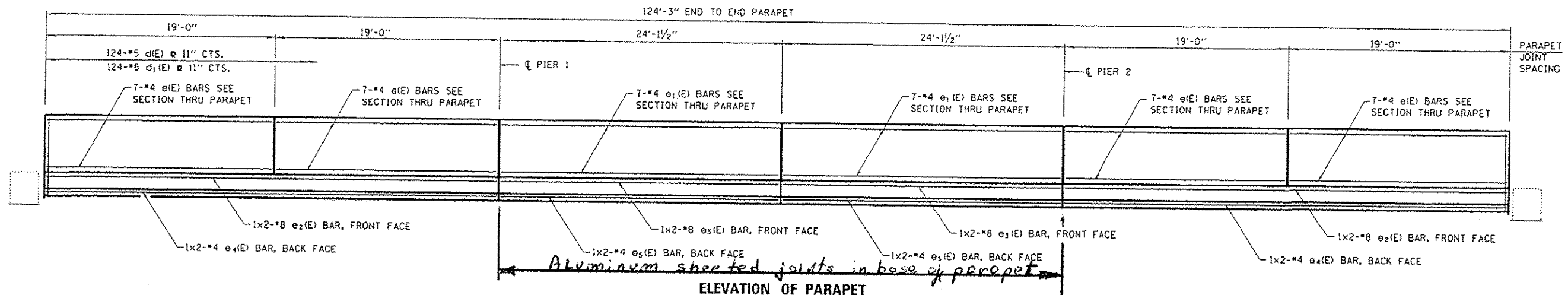
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		RW	-
		CHECKED :	REVISED :
		YP	-
		DATE :	REVISED :
		9/16/2013	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE REMOVAL DETAILS FOR
STRUCTURE NO's 038-0155 AND 038-0156

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-6B)1-2	IROQUOIS	19	11
CONTRACT NO. 66CB1			ILLINOIS FED. AID PROJECT	

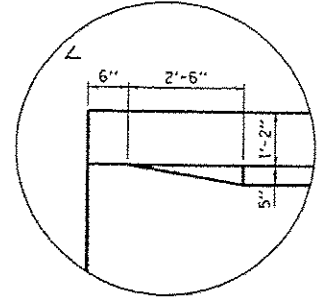
SCALE: SHEET 2 OF 10 SHEETS STA. 928+50.00



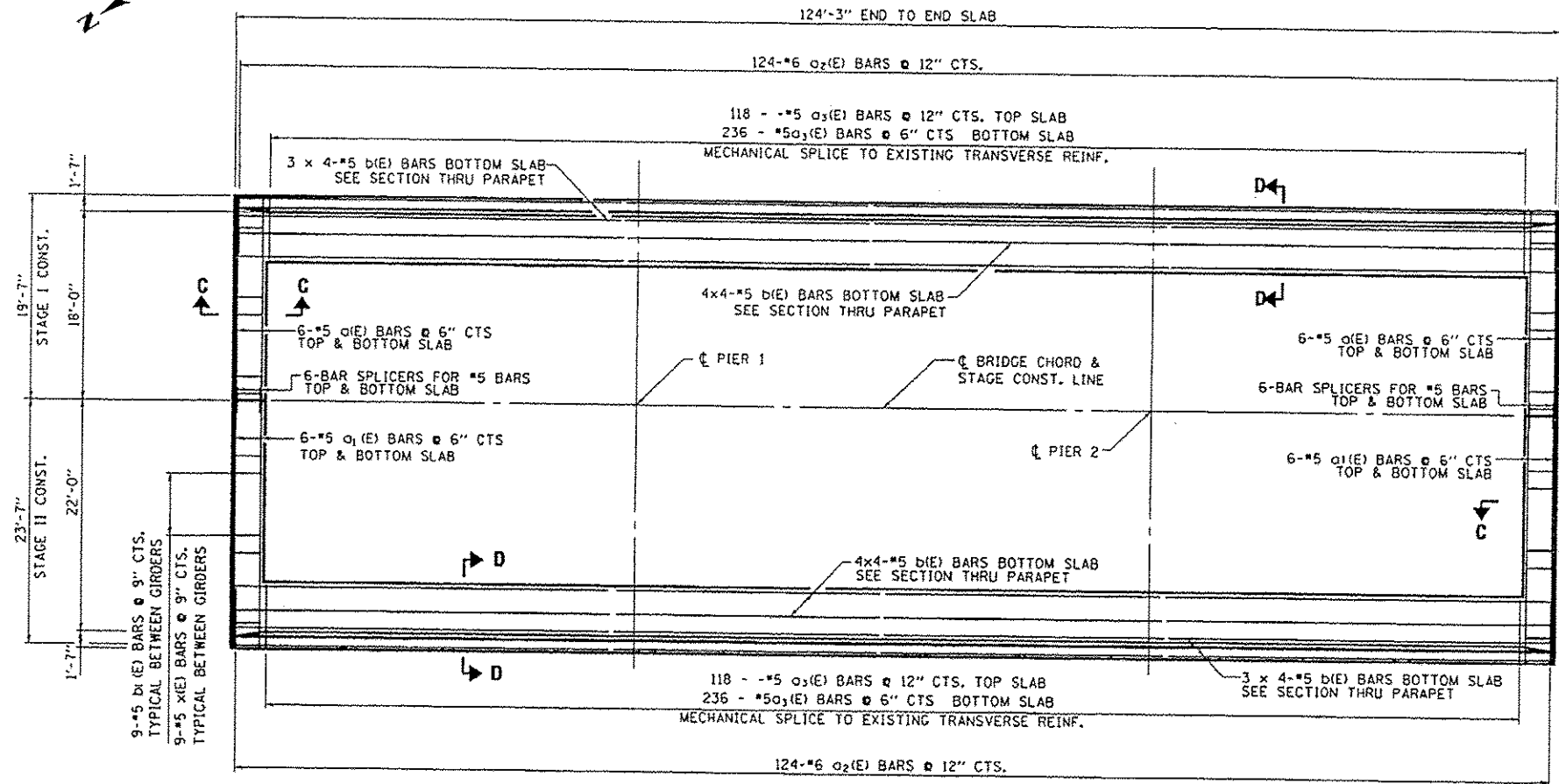
ELEVATION OF PARAPET

MINIMUM BAR LAP

- *4 BAR = 2'-0"
- *5 BAR = 2'-6"
- *8 BAR = 5'-2"



CORNER DETAIL (TYPICAL)



PLAN
SHOWING DECK REINFORCEMENT

SOUTHBOUND STRUCTURE (038-0155) SHOWN
NORTHBOUND STRUCTURE (038-0156) SIMILAR
THRU 180 DEG. ROTATION ABOUT CENTERLINE OF FA 57

TWO SUPERSTRUCTURES
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
o1(E)	48	5	19'-4"	▬
o1(E)	48	5	23'-4"	▬
o2(E)	496	6	5'-10"	▬
o3(E)	1416	5	5'-8"	▬
b(E)	112	5	32'-10"	▬
b1(E)	144	5	2'-9"	▬
d(E)	496	5	5'-7"	▬
d1(E)	496	5	7'-6"	▬
e(E)	112	4	18'-9"	▬
e1(E)	56	4	23'-10"	▬
e2(E)	16	8	20'-0"	▬
e3(E)	8	8	23'-10"	▬
e4(E)	16	4	21'-7"	▬
e5(E)	8	4	23'-10"	▬
h(E)	24	6	19'-4"	▬
h1(E)	24	6	23'-4"	▬
u(E)	168	4	2'-11"	▬
x(E)	144	5	4'-11"	▬
CONCRETE REMOVAL			CU. YD	179.2
CONCRETE SUPERSTRUCTURE			CU. YD.	197
REINFORCEMENT BARS				
EPOXY COATED			POUND	60740
BAR SPLICERS			EACH	72
MECHANICAL SPLICERS			EACH	1416
PERFORMED JOINT STRIP SEAL			FOOT	168

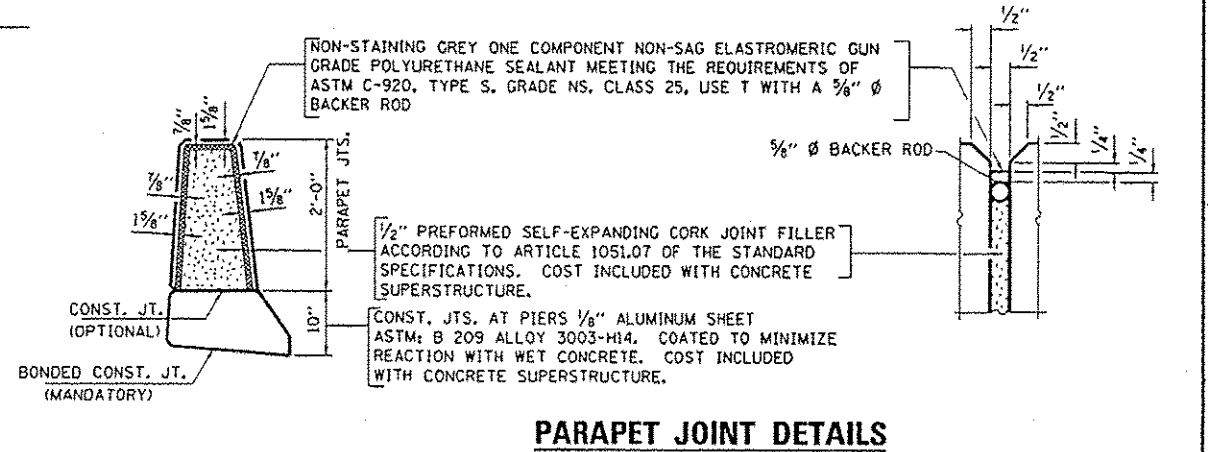
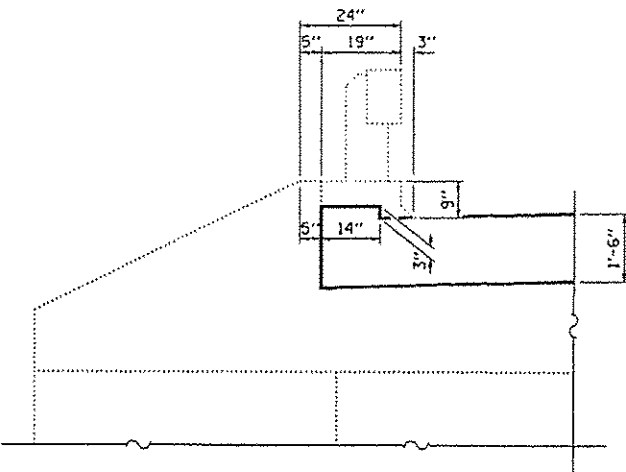
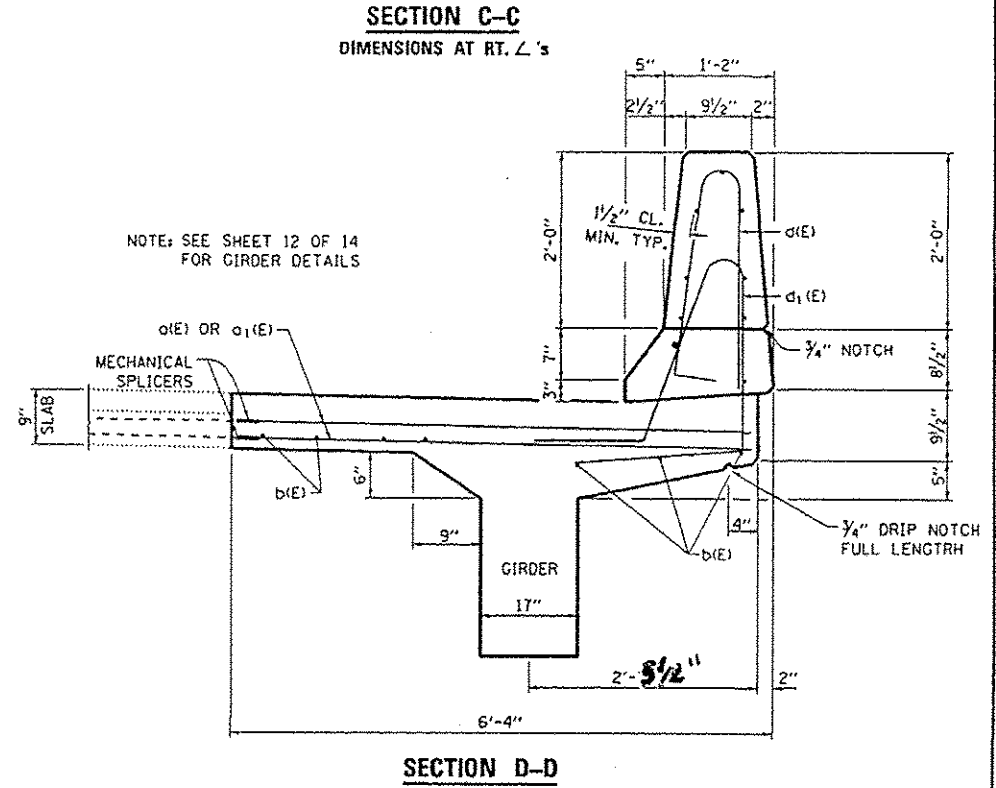
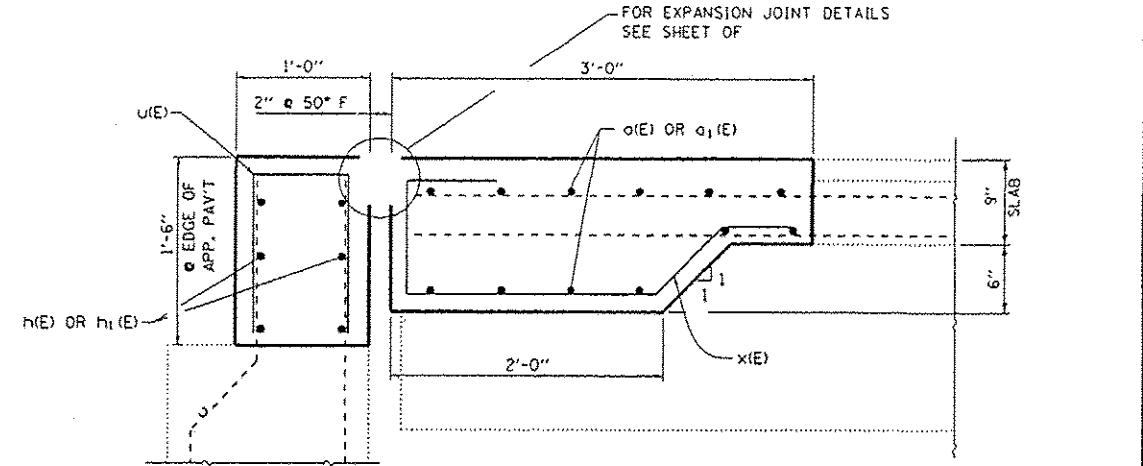
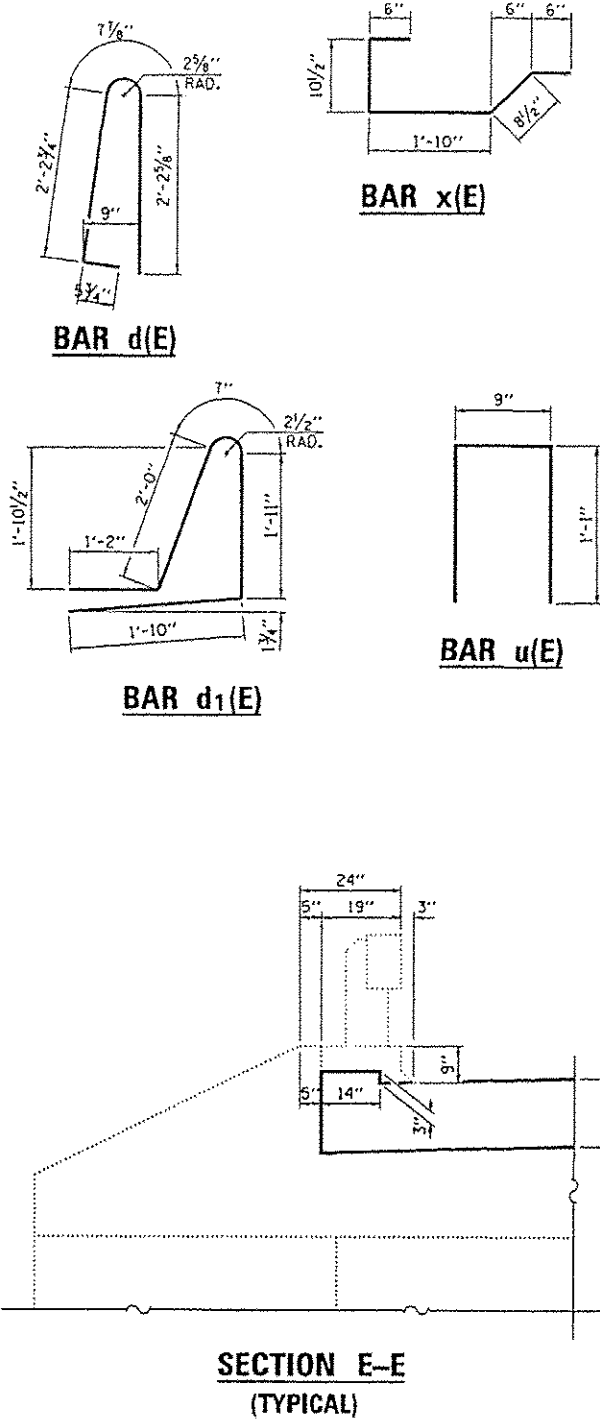
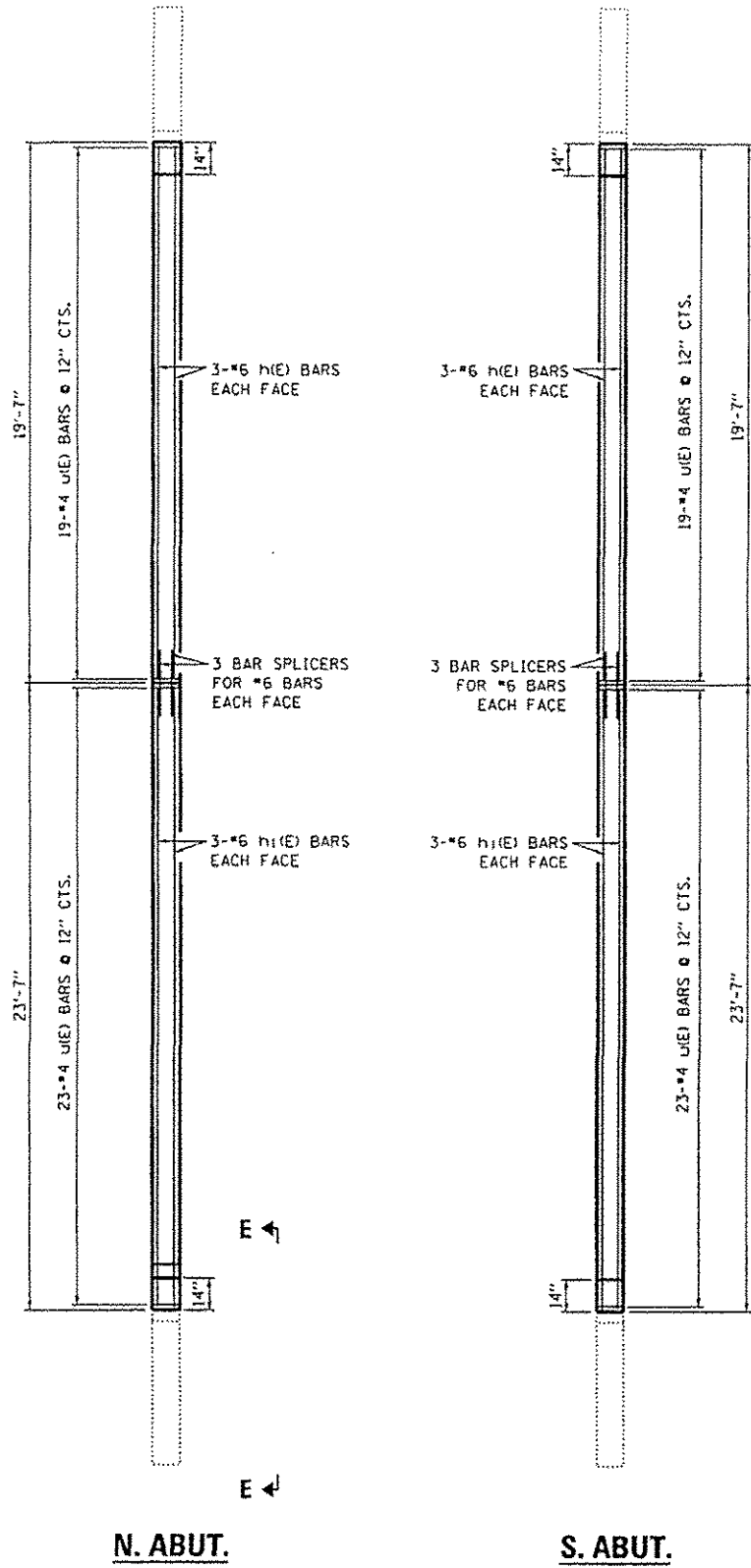
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MODEL NAME	PLOT SCALE = 100.00 / 1"	CHECKED - YP	REVISED -
	PLOT DATE = 11/15/2013	DATE = 9/16/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

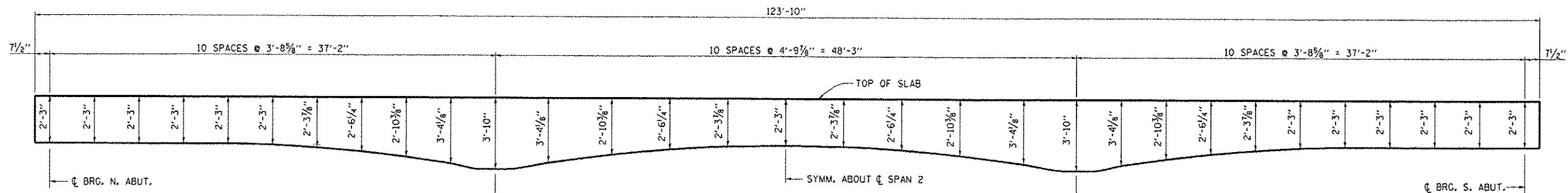
SUPERSTRUCTURE RECONSTRUCTION DETAILS
FOR STRUCTURE NO'S 038-0155 AND 038-0156

F.A.I. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	138-GB/1-2	IRROQUOIS	19	12
CONTRACT NO. 66C81			ILLINOIS FED. AID PROJECT	

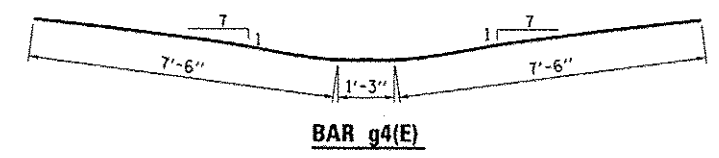
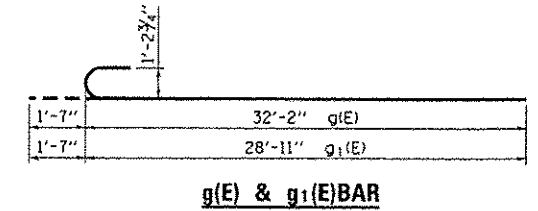
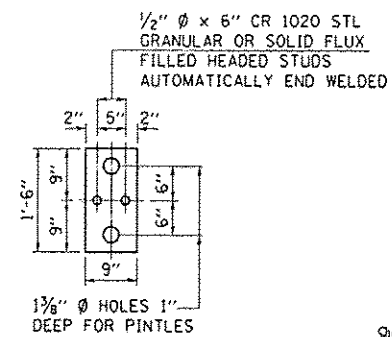
SCALE: SHEET 3 OF 10 SHEETS STA. 928+50.00



FILE NAME: c:\pwworkspace\woodshankr\10325055	USER NAME: woodshankr	DESIGNED - RW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONCRETE PARAPET SLIPFORMING OPTION STRUCTURE NO.'s 038-0155 & 038-0156	F.A.I. RITE: 57	SECTION: 038-6B1-2	COUNTY: IROQUOIS	TOTAL SHEETS: 19	SHEET NO.: 13		
MODEL NAME:	066C01-shl'details.dgn	DRAWN - RW	REVISED -			SCALE: 1/8" = 1'-0"	SHEET 4 OF 10 SHEETS	STA. 928+50.00	CONTRACT NO. 66CB1		(ILLINOIS) FED. AID PROJECT	
	PLOT SCALE: 1/8" = 1'-0"	CHECKED - YP	REVISED -									
	PLOT DATE: 11/15/2013	DATE: 9/16/2013	REVISED -									



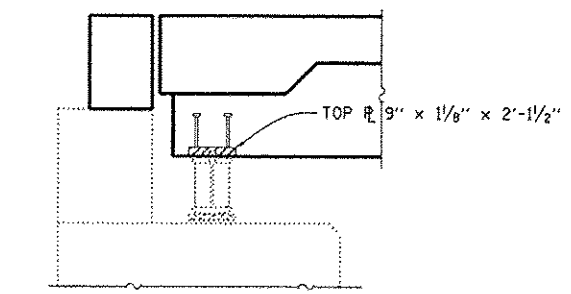
GIRDER ORDINATES (ALL GIRDERS)



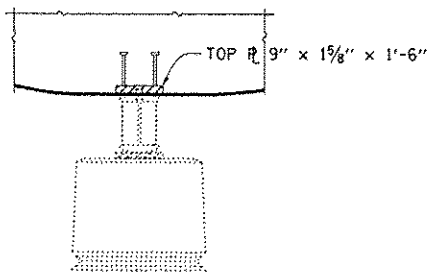
TWO SUPERSTRUCTURES BAR LIST FOR GIRDERS

BAR	NO.	SIZE	LENGTH	SHAPE
g(E)	16	11	33'-9"	U
g1(E)	16	11	30'-6"	U
g2(E)	16	10	22'-0"	U
g3(E)	16	10	16'-6"	U
g4(E)	16	11	16'-3"	U
g5(E)	8	11	38'-9"	U
g6(E)	8	11	32'-3"	U
g7(E)	8	10	23'-9"	U
g8(E)	8	10	17'-3"	U
g9(E)	60	5	26'-0"	U
g10(E)	12	9	25'-3"	U
g11(E)	24	7	25'-3"	U
g12(E)	8	11	31'-3"	U
g13(E)	16	9	31'-3"	U
g14(E)	16	11	17'-0"	U
g15(E)	8	7	22'-0"	U
g16(E)	16	5	27'-6"	U
g17(E)	16	5	30'-0"	U
g18(E)	8	5	36'-0"	U
m(E)	56	5	26'-0"	U
s(E)	140	4	5'-3"	U
s1(E)	128	4	8'-3"	U
s2(E)	164	4	5'-2"	U
s3(E)	176	4	5'-6"	U
s4(E)	24	4	6'-6"	U

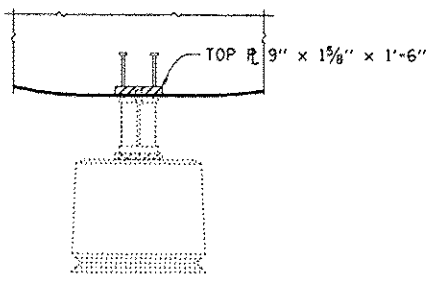
NOTE: WEIGHT OF REINFORCEMENT BARS INCLUDED IN SUPERSTRUCTURE BILL OF MATERIALS



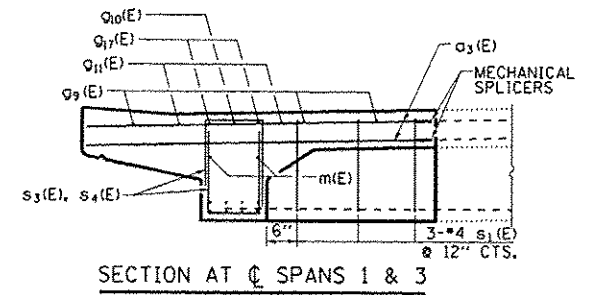
BEARING PLATE AT ABUTMENTS



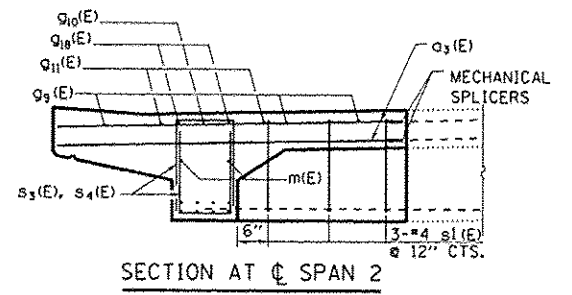
BEARING PLATE AT PIER 1



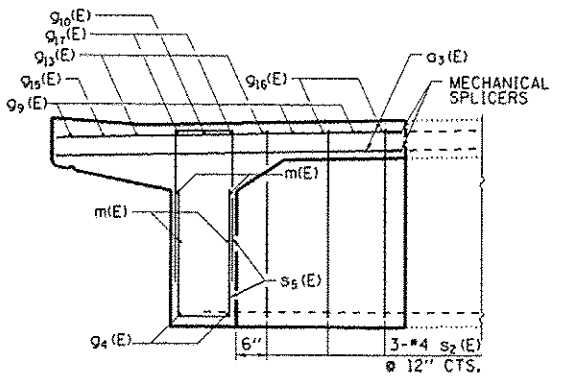
BEARING PLATE AT PIER 2



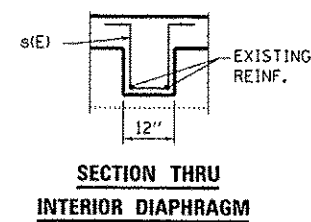
SECTION AT SPANS 1 & 3



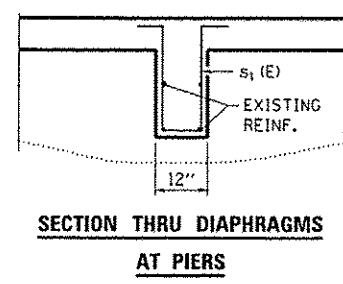
SECTION AT SPAN 2



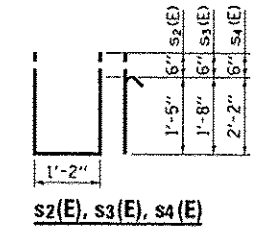
SECTION AT PIERS



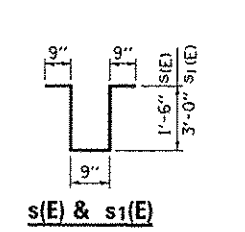
SECTION THRU INTERIOR DIAPHRAGM



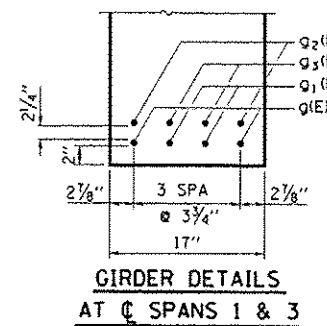
SECTION THRU DIAPHRAGMS AT PIERS



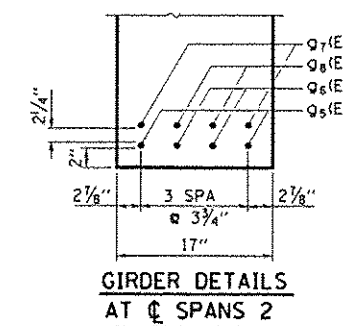
GIRDER DETAILS AT SPANS 1 & 3



GIRDER DETAILS AT SPAN 2



GIRDER DETAILS AT SPANS 1 & 3



GIRDER DETAILS AT SPAN 2

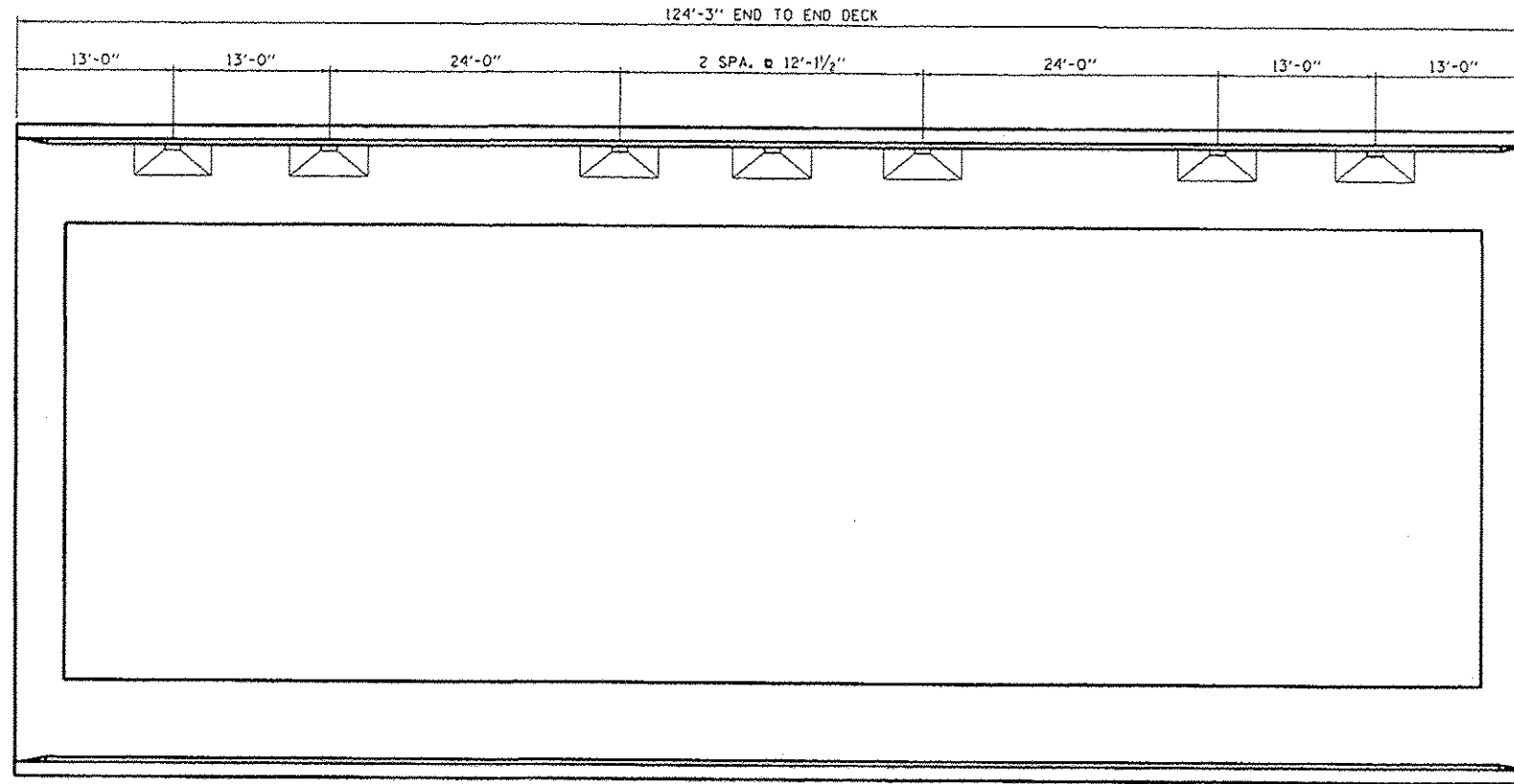
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	PLOT DATE = 11/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE RECONSTRUCTION DETAILS
FOR STRUCTURE NO'S 038-0155 AND 038-0156

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	138-6B1-2	IROQUOIS	19	15
			CONTRACT NO. 66C81	
ILLINOIS FED. AID PROJECT				

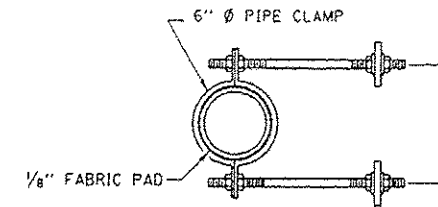
SCALE: SHEET 6 OF 10 SHEETS STA. 928+50.00



PLAN

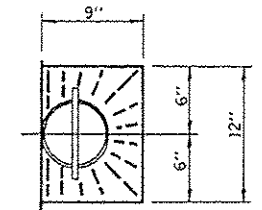
SOUTHBOUND PLAN SHOWN

NORTHBOUND SIMILAR THRU 180 DEG. ROTATION ABOUT CENTERLINE OF FAI 57 (EXCEPT DRAINS)

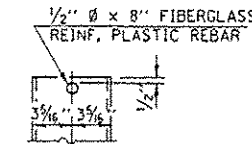


SECTION B-B

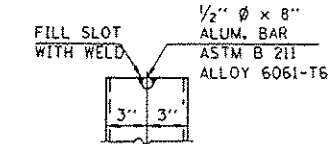
* DIMENSION AS REQUIRED BY PIPE CLAMP



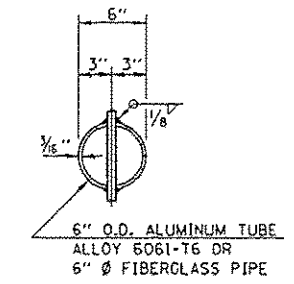
TOP PLAN



FIBERGLASS PIPE

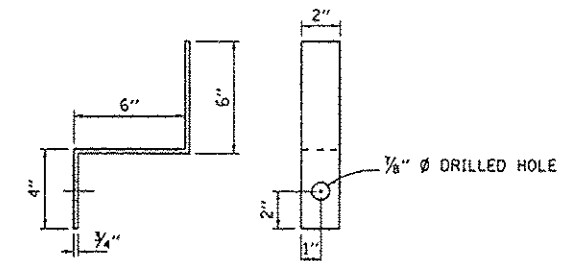


ALUMINUM TUBE



TOP PLAN

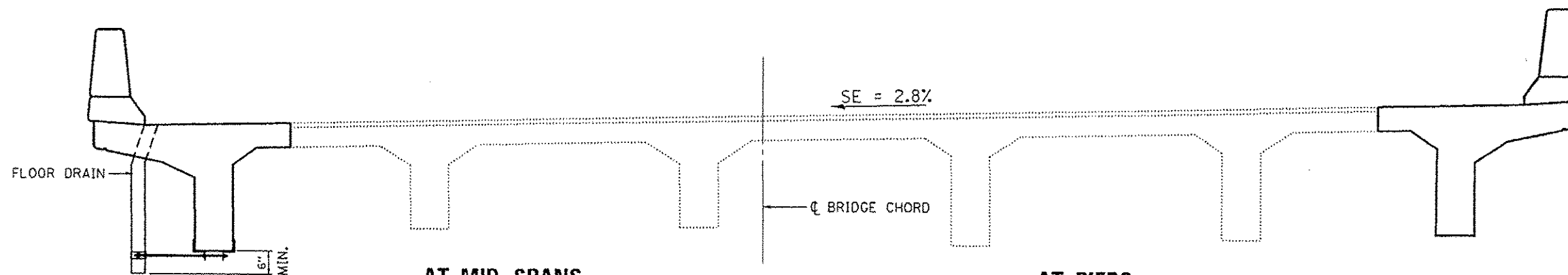
(SHOWING ALUMINUM TUBE)



CLAMP BRACKET

4 REQ'D PER DRAIN

NOTE:
THE CONTRACTOR SHALL VERIFY IN THE FIELD THE EXISTING DRAIN ANGLE PRIOR TO REMOVAL OF EXISTING DRAINS PRIOR TO THE ORDERING OF NEW CIRCULAR DRAINS.



CROSS SECTION

AT MID SPANS

AT PIERS

**TWO SUPERSTRUCTURES
BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
FLOOR DRAIN	EACH	14

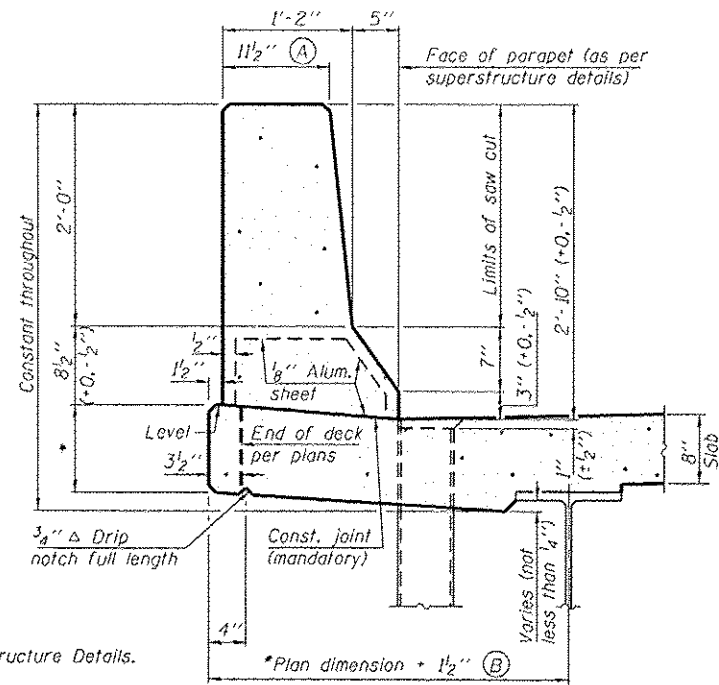
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MODEL NAME	PLOT SCALE * 100.00 / in.	CHECKED -	REVISED -
	PLOT DATE * 11/19/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FLOOR DRAIN DETAILS
FOR STRUCTURE NO's 038-0155 AND 038-0156

SCALE: SHEET 7 OF 10 SHEETS STA. 928+50.00

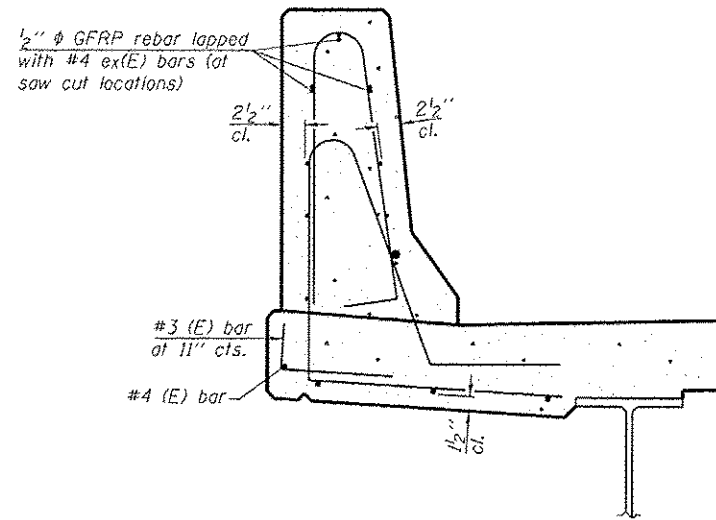
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	038-6B1-2	(PRODUIS	19	16
			CONTRACT NO. 66CB1	
ILLINOIS FED. AID PROJECT				



34" F SHAPE PARAPET SECTION
(Showing dimensions)

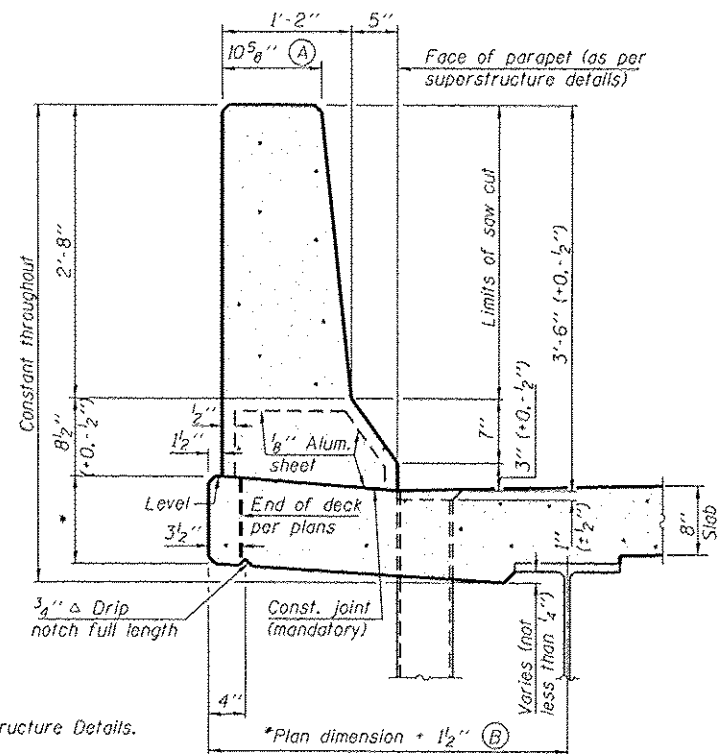
*See Superstructure Details.

*Plan dimension + 1 1/2" (B)



SECTION

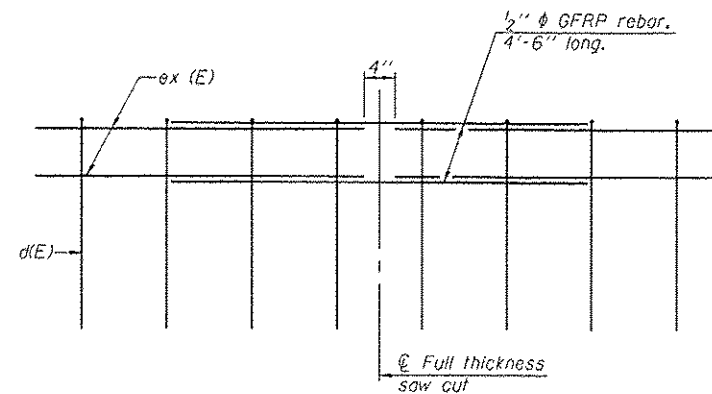
(34" parapet shown - 42" parapet similar)
(Showing reinforcement clearances for slip forming and additional reinforcement bars)



42" F SHAPE PARAPET SECTION
(Showing dimensions)

*See Superstructure Details.

*Plan dimension + 1 1/2" (B)

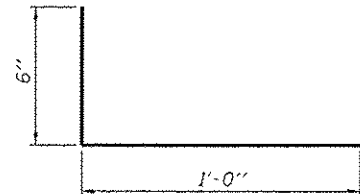


GFRP REBAR STIFFENING DETAIL

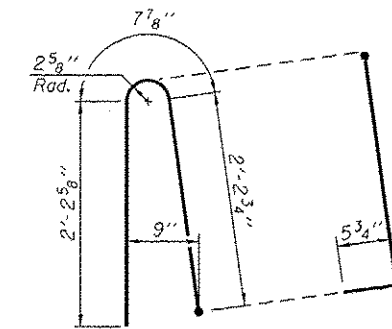
(Place as shown in parapet section at each parapet joint location.)

GENERAL NOTES

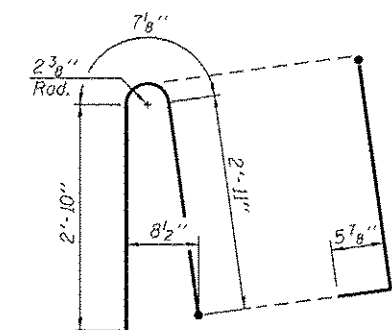
All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. for 34" parapet or = 0.0223 cu. yds./ft. for 42" parapet. Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler. Steel superstructure shown. Other superstructure types similar.



#3 (E) BAR



ALTERNATE BAR d(E)
(For 34" parapet when conduit is present)



ALTERNATE BAR d(E)
(For 42" parapet when conduit is present)

SFP 34-42

8-16-12

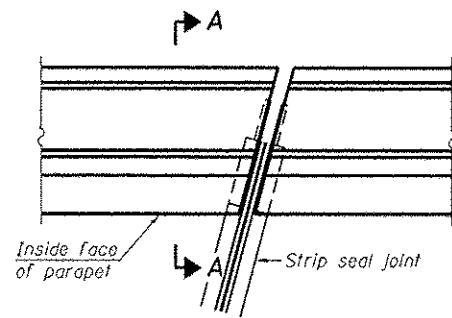
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MODEL NAME :	PLOT SCALE :	DRAWN :	REVISED :
	100.00' / in.	RW	-
	PLOT DATE :	CHECKED :	REVISED :
	11/15/2013	-	-
		DATE :	REVISED :
		-	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

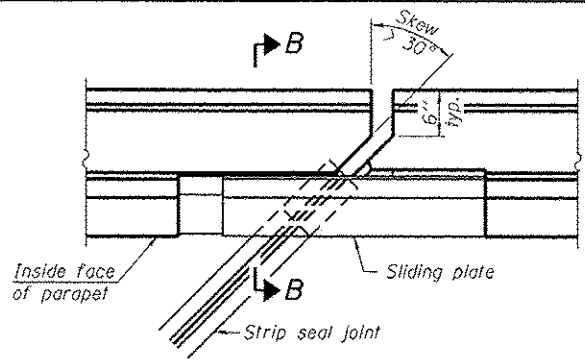
**SUPERSTRUCTURE PARAPET SLIPFORMING OPTION
FOR STRUCTURE NO's 038-0155 AND 038-0156**

SCALE: SHEET 8 OF 10 SHEETS STA. 928+50.00

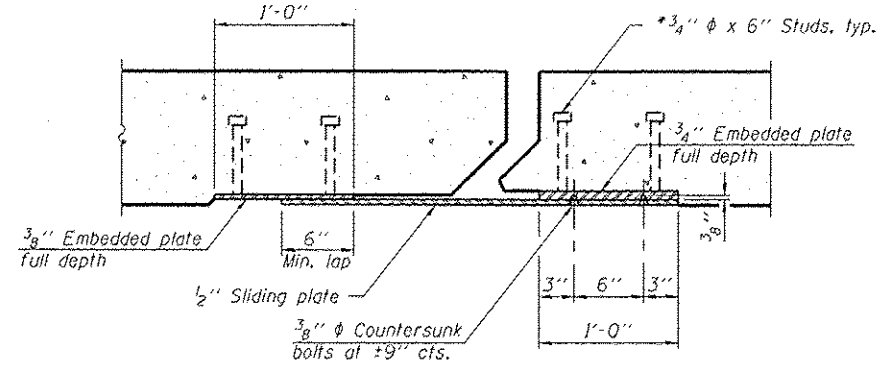
F.A.I. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-6B)1-2	IRROQUOIS	19	17
			CONTRACT NO. 66C81	
(ILLINOIS) FED. AID PROJECT				



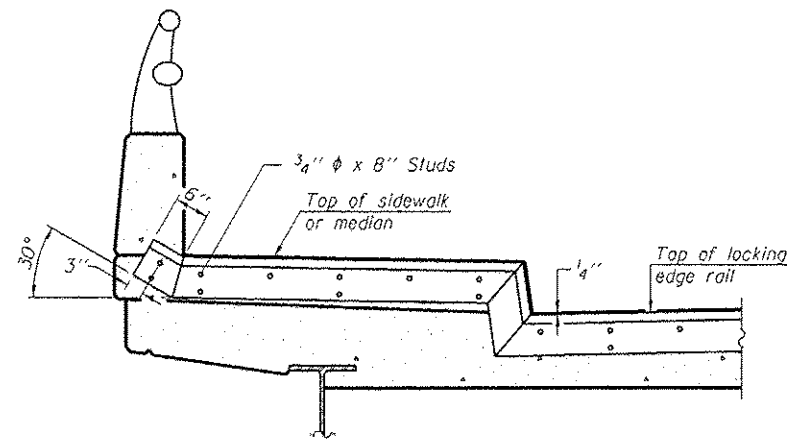
PLAN
(For skews $\leq 30^\circ$)



PLAN
(For skews $> 30^\circ$)
Showing point block

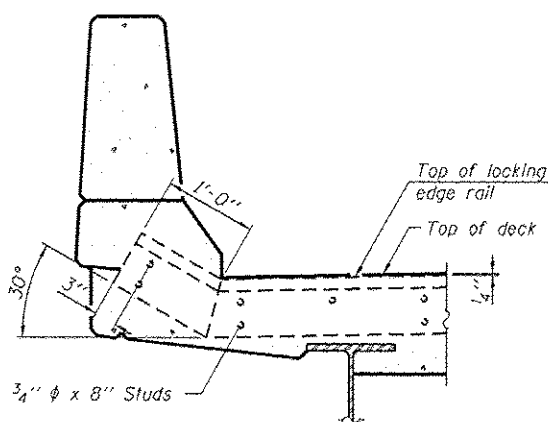


SECTION C-C

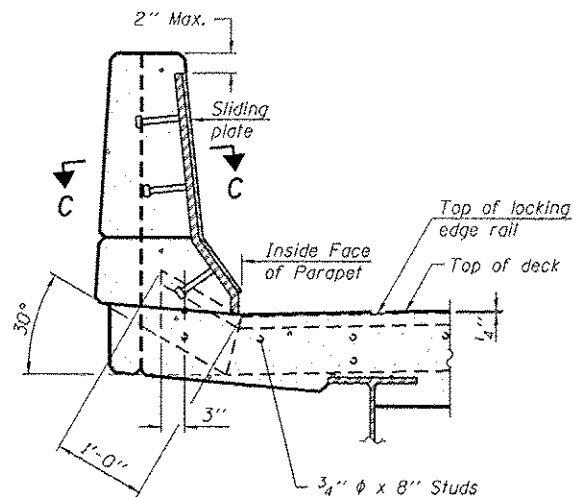


TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

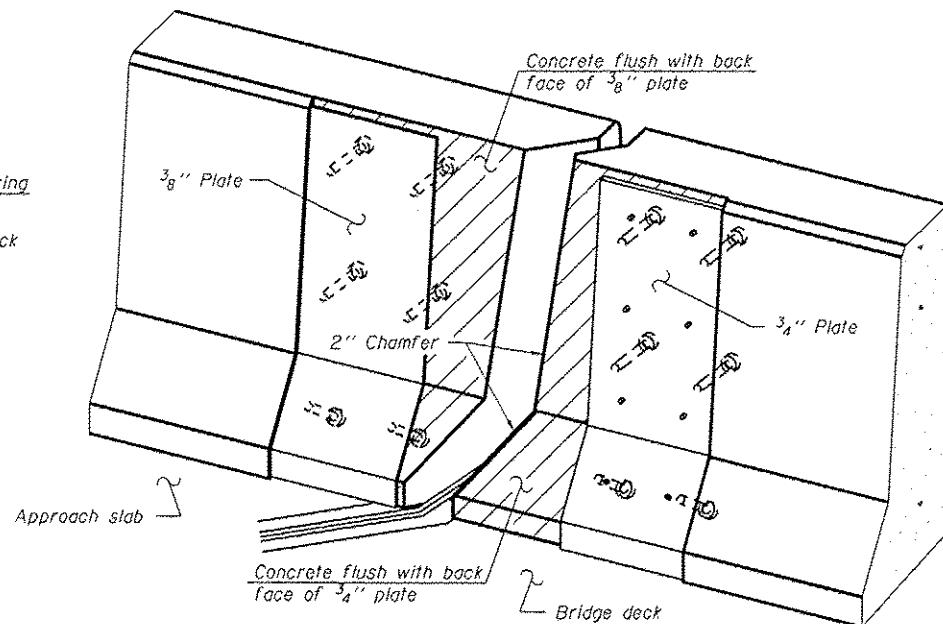
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



SECTION A-A



SECTION B-B



TRIMETRIC VIEW
(Showing back plates only)

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 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.

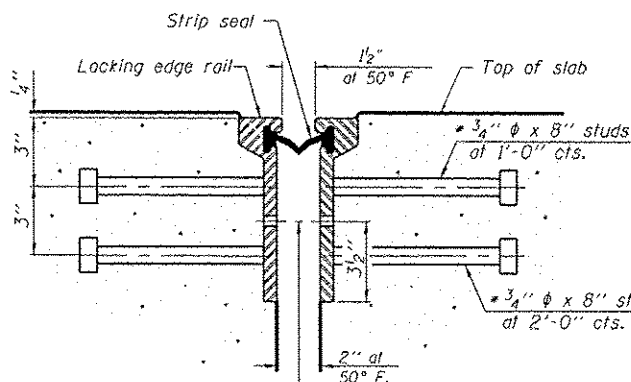
The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

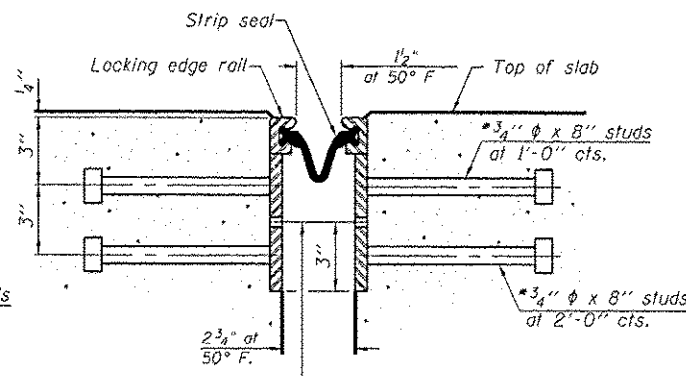
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

Parapet plates and anchorage studs for skews $> 30^\circ$ included in the cost of Preformed Joint Strip Seal.



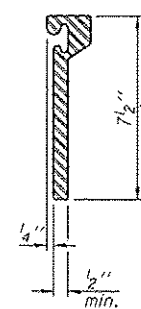
SECTION THRU ROLLED RAIL JOINT

7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

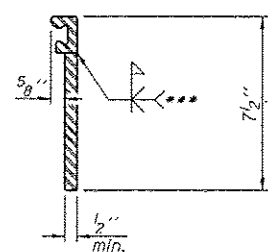


SECTION THRU WELDED RAIL JOINT

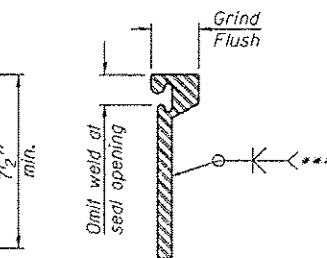
7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.



ROLLED EXTRUDED RAIL



WELDED RAIL



LOCKING EDGE RAIL SPLICE

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

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

TWO SUPERSTRUCTURES BILL OF MATERIALS

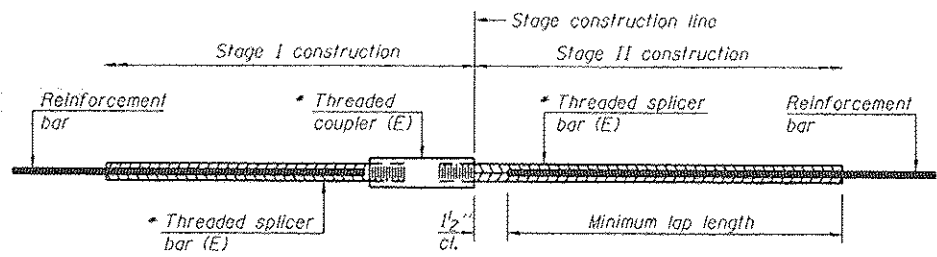
Item	Unit	Total
Preformed Joint Strip Seal	Foot	168

LOCKING EDGE RAILS

EJ-SSJ

1-27-12

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



STANDARD BAR SPLICER ASSEMBLY

Bar size to be spliced	Minimum Lap Lengths					
	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

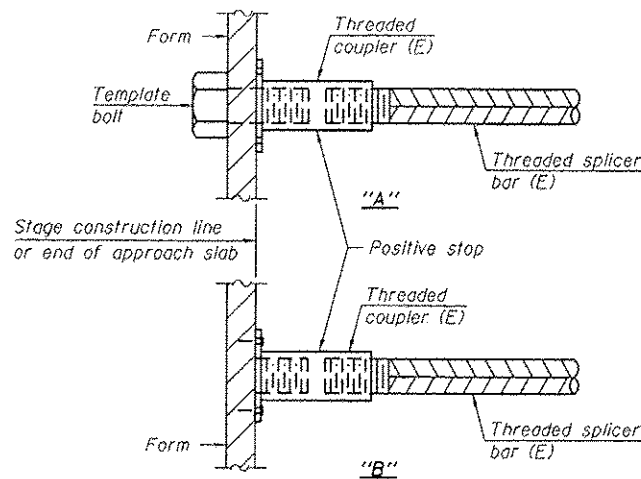
Table 1: Black bar, 0.8 Class C
 Table 2: Black bar, Top bar lap, 0.8 Class C
 Table 3: Epoxy bar, 0.8 Class C
 Table 4: Epoxy bar, Top bar lap, 0.8 Class C
 Table 5: Epoxy bar, Class C
 Table 6: Epoxy bar, Top bar top, Class C

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

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

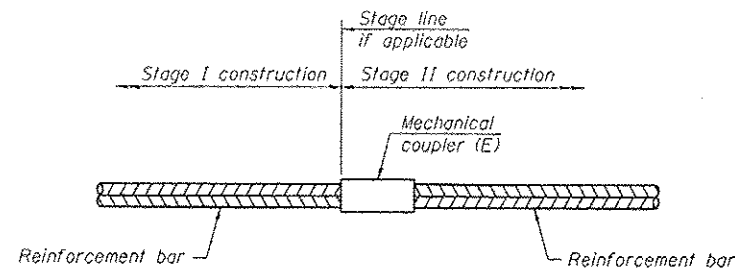
**TWO SUPERSTRUCTURES
BILL OF MATERIALS**

Location	Bar size	No. assemblies required	Table for minimum lap length
N ABUT DECK	#5	24	TABLE 3
N ABUT HATCH BLOCK	#6	12	TABLE 3
S ABUT DECK	#5	24	TABLE 3
S ABUT HATCH BLOCK	#6	12	TABLE 3



INSTALLATION AND SETTING METHODS

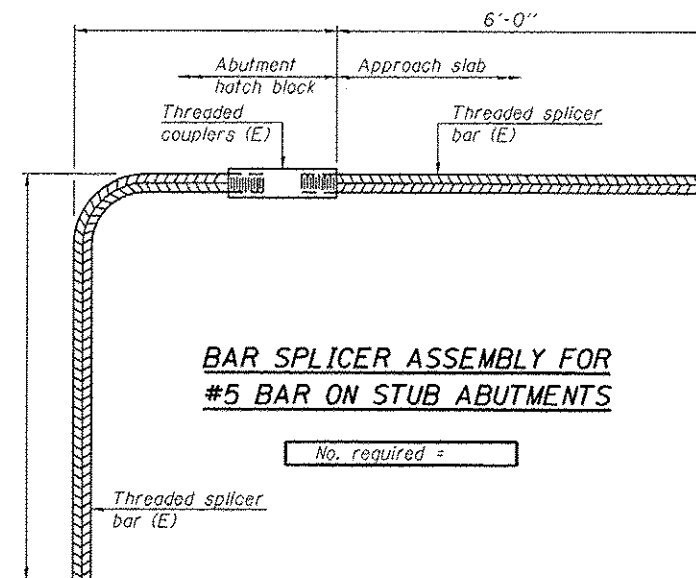
"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

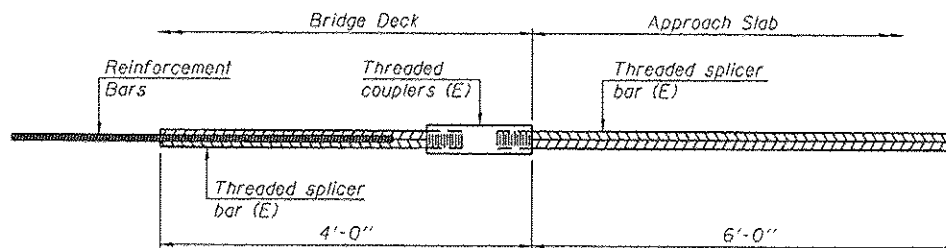
**TWO SUPERSTRUCTURES
BILL OF MATERIALS**

Location	Bar size	No. assemblies required
DECK-STAGE I	#5	354
DECK-STAGE II	#5	354
DECK-STAGE III	#5	354
DECK-STAGE IV	#5	354



**BAR SPLICER ASSEMBLY FOR
#5 BAR ON STUB ABUTMENTS**

No. required =



**BAR SPLICER ASSEMBLY FOR #5 BAR ON
INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

No. 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

1-27-12

FILE NAME =	USER NAME = woodshank1	DESIGNED - RW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BARMCHANICAL SPLICER ASSEMBLY DETAILS FOR STRUCTURE NO's 038-0155 & 038-0156	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pr_work\pawdot\woodshank1\0325865\0366C81-81-deta1.dgn	0366C81-81-deta1.dgn	DRAWN - RW	REVISED -			57	(38-6B)-2	IRROUOIS	19	19	
MODEL NAME =	PLOT SCALE = 1/80.00 / in.	CHECKED -	REVISED -			CONTRACT NO. 66C81					
	PLOT DATE = 11/15/2013	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

SCALE: SHEET 10 OF 10 SHEETS STA. 928+50.00