3	09-20-2019 LETTING ITEM 033	STATE OF ILLINOIS		
	INDEX OF SHEETS         1.       COVER SHEET         2.       GENERAL AND PROJECT SPECIFIC NOTES         3-5       SUMMARY OF QUANTITIES	<b>DEPARTMENT OF TRANSPORTATION</b>		
	<ol> <li>TYPICALS</li> <li>SCHEDULE OF QUANTITIES</li> <li>LINE DIAGRAM</li> <li>TRAFFIC CONTROL TYPICALS</li> <li>10-11 TRAFFIC CONTROL</li> <li>DETOUR DETAILS</li> <li>13-14 PROPOSED PATCHING AND SEALING DETAILS</li> </ol>	PROPOSED		
>	15-26. STRUCTURAL DETAILS 27-33. ORIGINAL STRUCTURE PLANS S.N. 090-0127 34-43. ORIGINAL STRUCTURE PLANS S.N. 090-0131 44-45. DISTRICT 4 STANDARDS	HIGHWAY PLANS FAI ROUTE 155 (I–155) SECTION 90–106X[VB–1,HB–2]BJR,BRR		
	LIST OF STANDARDS 442201-03 643001-02 701101-05 701106-02 701400-09	FEDERAL PROJECT NO. NHPP-FBYL(491) BRIDGE REHABILITATION TAZEWELL COUNTY		
	701402-12       PROJECT LOCATION         701411-09       PROJECT LOCATION         701901-08       S.N. 090-0127         704001-05       782006         701426-09       701426-09	С-94-062-18 в з м		
	701428-01       S.N. 090-0131       Z         ADT 3450       ADT 2850       N         SU 275       SU 80       H         MU 175       MU 50	HAVEAIR DEFFERSON		
	0 100 <sup>°</sup> 200 <sup>°</sup> 300 <sup>°</sup> 1 <sup>°</sup> 1 <sup>°</sup> 100 <sup>°</sup> 10 <sup>°</sup> 20 <sup>°</sup> 30 <sup>°</sup> 1 <sup>°</sup> 1 <sup>°</sup> 10 <sup>°</sup>	DIRCHWOOD 98 MORTON ST.		
)	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.	PROJECT LOCATION S.N. 090-0131 BPDADWAY BROADWAY BROADWAY		
)	J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS 1-800-892-0123 OR 811 PROJECT ENGINEER: NICHOLAS JACK PROJECT MANAGER: JOSH JOCHUMS			

Ο

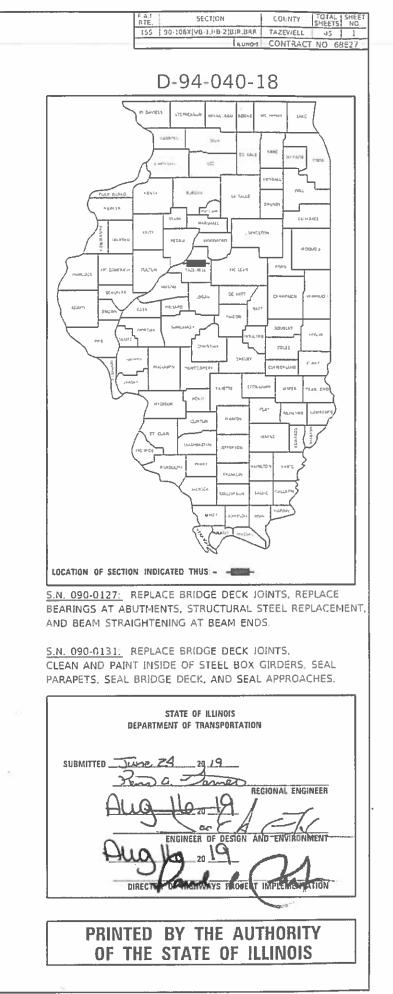
0

0

0

CATALOG NO. 035614-00D

CONTRACT NO. 68E27



REV. 8/1/19

### GENERAL NOTES:

### CRITICAL PATH WORK SCHEDULE REQUIREMENT

The Contractor will submit to the Engineer a satisfactory progress schedule and critical path schedule which shall show the proposed sequence of work at the time of the pre-construction conference.

### ENVIRONMENTAL REVIEWS

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run–arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

The required environmental resource documentation shall include the following:

- \* BDE Form 2289 (Cultural and Natural Resources Review of Borrow Areas)
- \* BDE Form 2290 (Waste/Use Area Review)
- \* A location map showing the size limits and location of the use area
- \* Color photographs depicting the use area
- \* Borrow Area Entry Agreement form - D4 Pl0101

Prior to any waste materials being removed from the construction site the required environmental resource surveys shall be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

Please note that a minimum of four weeks shall be allowed for the District to obtain the required environmental clearances and six weeks for the required borrow site environmental clearances

PULYMERIZED	RITOMINO02	MATERIALS	(TACK	CUAT) RATES	

DITURNING MAATERIALO (TAOK COAT) RATEO

Surface Type	Residual Rate
Milled (HMA or PCC)	0.08 lb /sq ft
Existing Pavement	0.08 lb /sq ft
Fog Coat (between lifts)	0.08 lb /sq ft

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

Mixture Use(s):	Class D Patches, TY III, 13"
AC/PC:	PG 64–22
Design Air Voids:	4.0% AT N=50
Mixture Composition:	
(Gradation Mixture):	IL 9.5
Friction Aggregate:	Mix "C"
Quality Management:	0C/0A

### Notes:

1) Individual lift thickness of each mix type will be no less than 3 times nominal maximum aggregate size and no more than 6 times nominal maximum

2) For design purposes, mixture weight for all mixes is determined to be 112.0 lb/s.y/in., unless otherwise noted.

3) Sublot sizes for PFP and QCP mixes will be 1,000 tons, unless otherwise agreed to by the Engineer and the paving Contractor.

### ADDITIONAL SUPPLEMENTAL TRAFFIC CONTROL

The Department reserves the right at any time to add additional Traffic Control Systems or devices within the active contract limits, by means of an additional contract. All terms of Article 105.08 of the Standard Specifications shall be followed by each Contractor.

### SIGNING

Sign locations may vary from the stations shown on the plans in accordance with directions from the Engineer at the time of construction. Sign locations may be adjusted in the field to avoid any found utilities.

All wood post locations shall be verified with the Bureau of Operations, Traffic Section, before installation

### **PROJECT SPECIFIC NOTES:**

### S.N. 090-0127:

### S.N. 090-0131

- on the tub airders.
- of the tub girders.

USER NAME = jochumsjg	DESIGNED -	REVISED -						
	DRAWN -	REVISED -	STATE OF ILLINOIS			GENE	RAL NO	IE:
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					
PLOT DATE = 6/24/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	S

1. All new Concrete Superstructure shall be treated with Protective Coat. 2. If any railroad flaggers are needed they shall be paid for per Article 109.05 of the Standard Specifications

1. All new Concrete Superstructure shall be treated with Protective Coat only. The remaining existing concrete parapet shall be treated with Surface Filler (Special) and Protective Coat (Special). The remaining existing concrete bridge deck and approaches shall be treated with Concrete Healer Sealer. 2. The joint replacement shall be completed before the interior blasting, cleaning, and painting begins

3. The existing interior lighting shall be removed prior to abrasive blast cleaning and reinstalled after the final field coat. "Cleaning and Painting Structural Steel, Location 1" shall be used for all work associated with the interior

4. Traffic control signage and maintenace of signage for the I-155 southbound shoulder closure will be included in the cost of the work being performed on this contract.

RT	A.I. TE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
IOTES 15	155	90-106X[VB-1,HB-2J]2JR,BRR		TAZEWELL	45	2
				CONTRACT	NO. 68	3E27
S STA. TO STA.		ILLINOIS	FED. A	ID PROJECT		

				CONST. CODE	CONST. CODE
			URBAN	90/10	90/10
				FED/STATE	FED/STATE
CODE			TOTAL	BRIDGE PRES.	BRIDGE PRES.
NO.	ITEM	UNIT	QUANTITY	0013	0013
				S.N. 090-0127	S.N. 090-013
42001300	PROTECTIVE COAT	SQ YD	48	25	23
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SQ YD	40	40	
50102400	CONCRETE REMOVAL	CU YD	17.1	8	9.1
50300255	CONCRETE SUPERSTRUCTURE	CU YD	17.3	8.1	9. 2
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	4100	4100	
50606701	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 1	L SUM	1		1
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2380	1 3 4 0	1040
52000110	PREFORMED JOINT STRIP SEAL	FOOT	115	59	56
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE 1	EACH	8	8	
52100520	ANCHOR BOLTS, 1"	EACH	32	32	
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	4	2	2
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	1		1
70100400					
10100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1		1

\*= SPECIALTY ITEM

}	USER NAME = jochumsjg	DESIGNED -	REVISED -		
		DRAWN -	REVISED -	STATE OF ILLINOIS	SUMMARY OF QUA
	PLOT SCALE = 100.0000 '/ 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	SUMIMANT OF LUA
	PLOT DATE = 6/21/2019	DATE -	REVISED -		

	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
UANTITIES	155	90-106X[VB-1,HB-2]BJR,BRR	TAZEWELL	(45	3
5/1111120			CONTRACT	NO. 6	8E27
		(ILLINOIS FED. A	D PROJECT		

				CONST. CODE	CONST. CODE
			URBAN	90/10	90/10
				FED/STATE	FED/STATE
CODE			TOTAL	BRIDGE PRES.	BRIDGE PRES.
NO.	ITEM	UNIT	QUANTITY	0013	0013
NU.			QUANTIT	S.N. 090-0127	S.N. 090-013
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	2	1	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	1808		1808
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	603		603
70400100	TEMPORARY CONCRETE BARRIER	FOOT	590		590
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2		2
78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	976	24	952
78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	88		88
78200011	BARRIER WALL RELFLECTORS, TYPE C	EACH	48		48
x0324966	CONCRETE HEALER SEALER	SQ YD	1336		1336
0326444	SURFACE FILLER (SPECIAL)	GALLON	10		10
	SURFACE FILLER (SFECIAL)	GALLON	10		10
(0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	369		369
(5030550	PROTECTIVE COAT (SPECIAL)	SQ YD	653		653
	TROTECTIVE COAT ( SELCTAE)				
5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO.1	L SUM	1		1
7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	0.5	0.5
1010210					

\*= SPECIALTY ITEM

AME: pwi

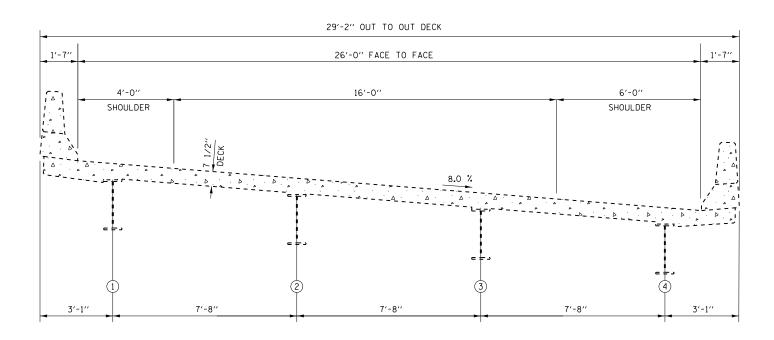
	USER NAME = jochumsjg	DESIGNED -	REVISED -		
		DRAWN -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUA
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -		SUIVIIVIANT OF UUA
	PLOT DATE = 6/21/2019	DATE -	REVISED -		

UA	N1	ΓΙΤ	ΊE	S
		•••		•

A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	90-106X[VB-1,HB-2]BJR,BRR	TAZEWELL	45	4
		CONTRACT	NO. 6	8E27
	ILLINOIS FED. A	ID PROJECT		

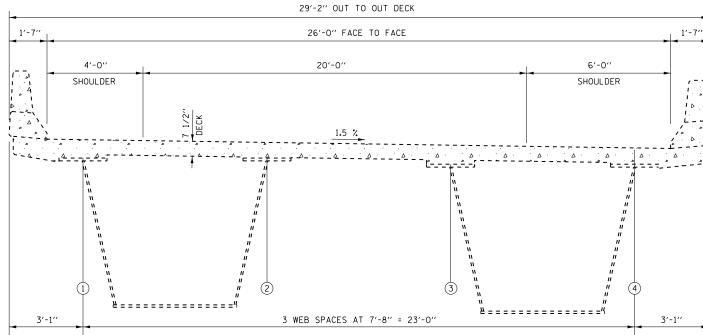
				CONCT CODE	CONST. CODE
				CONST. CODE	
				90/10	90/10
				FED/STATE	FED/STATE
CODE			TOTAL	BRIDGE PRES.	
NO.	ITEM	UNIT	QUANTITY	047	047
NU.			QUANTITI	S.N. 090-0127	S.N. 090-013
20001899	JACK AND REMOVE EXISTING BEARINGS	EACH	8	8	
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	1920	1920	
Z0003600	BEAM STRAIGHTENING	L SUM	1	1	
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	12	12	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	
					+

USER NAME = jochumsjg	DESIGNED -	REVISED -			F.A.I. SECTION	COUNTY TOTAL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS		155 90-106X[VB-1.HB-2]BJR-BRR	TAZEWELL 45 5
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	SUMMART OF QUANTITIES		CONTRACT NO. 68E27
PLOT DATE = 6/21/2019	DATE -	REVISED -		-	ILLINOIS FED. AI	ID PROJECT



# EXISTING TYPICAL SECTION NO. 1

S.N. 090-0127 (LOOKING NORTH)

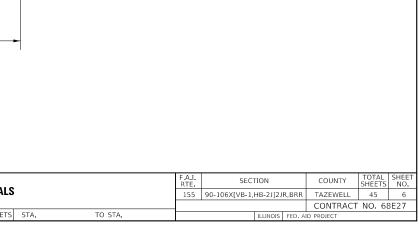


# EXSITING TYPICAL SECTION NO. 2

S.N. 090-0131 (LOOKING SOUTHWEST)

USER NAME = jochumsjg	DESIGNED -	REVISED -		ĺ			
	DRAWN -	REVISED -	STATE OF ILLINOIS	l .		Т	YPICALS
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	l .			
PLOT DATE = 6/21/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS

room.dot.Illinols.gov;PWIDOT/Documents/IDOT\_Offices/District\_4)Projects/D4\_68E27/CADData/CADdra



	TA	BULATION	I OF PATCH	ING QUAN	TITIES
					44201803
S.N.	STATION	то	STATION	SIZE	CLASS D PATCHES, TY
5.14.	STATION			SIZE	III, 13"
					SY
090-0127	14+56	TO	14+62	6X30	20
090-0127	18+53	TO	18+59	6X30	20
		TOTAL			40

CLEANING & PAINTING STRUCTURAL STEEL, LOCATION 1

LOCATION

090-0131 INSIDE OF ALL EXISTING TUB GIRDERS

TOTAL

50606701

LSUM

1

1

		TRAFFIC CONT	ROL ITEMS	
		70400100	78200011	70600250
STRUCTURE LOCATION	LOCATION	TEMPORARY CONCRETE BARRIER	BARRIER WALL REFLECTORS, TYPE C	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
		FOOT	EACH	EACH
090-0131	STA. 144+01 TO STA. 147+28	327	26	1
090-0131	STA. 145+83 TO STA. 148+46	263	21	1
	TOTAL	590	48	2

RAILROAD PROTECTIVE LIABILITY					
INSURANCE					
X7010216					
L SUM					
1					
1					

		TEI	MPORARY I	PAVEMENT MARKING	S
	LO	CATI	ON	70300100	70300150
STRUCTURE	STA	a to sta		SHORT-TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL
				FOOT	SF
	144+01	TO	156+25	1224	408
090-0131	154+69	TO	156+25	156	52
090-0131	157+49	ΤO	158+44	95	32
	158+44	TO	161+77	333	111
	TOTALS			1808	603

CONTAIN	IMENT AND DISPOSAL OF NON-LEAI	D PAINT
	<b>CLEANING RESIDUES NO. 1</b>	
STRUCTURE	LOCATION	X5060601
STRUCTURE	EOCATION	LSUM
090-0131	INSIDE ALL EXISTING TUB GIRDERS	1
	TOTAL	1

					PERMANE	NT PAVEMENT MARKINGS		
			LO	CATION		X0327980	78009004	78009008
STRUCUTRE	STA	то	STA	NOTES	LT/RT	PAVEMENT MARKING REMOVAL - WATER BLASTING SF	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	MODIFIED URETHANE PAVEMENT MARKING - LINE 8'' FOOT
	15+84	то	15+90		LT	эг	6	FUUT
	15+84	то	15+90		RT		6	
090-0127	17+25	то	17+31		LT		6	
	17+25	то	17+31		RT		6	
	18+00	то	18+06		LT		6	
	18+00	то	18+06		RT		6	
[	22+39	то	22+45		LT		6	
090-0131	22+39	то	22+45		RT		6	
[	144+01	то	162+00	I-155 STATIONING	LT	167	500	
[	157+49	то	161+77	I-155 STATIONING	LT	143	428	
	154+69	TO	157+49	I-155 STATIONING	LT	60		88
			TOTALS			369	976	88

	C CONTROL	
STRUCTURE		X7010216
STRUCTURE	LUCATION	LSUM
090-0127	DETOUR	0.5
090-0131	DETOUR	0.5
TOT	AL	1

CONCRETE HEALER SEALER	
STRUCTURE LOCATION	X0324966
STRUCTURE	SY
090-0131 BRIDGE DECK AND APPROACHES	1336
TOTAL	1336

SUF	SURFACE FILLER (SPECIAL)										
STRUCTURE	LOCATION	X0326444									
	LOCATION	GALLON									
090-0131	EXISTING PARAPET	10									
	10										

PROTECTIVE COAT (SPECIAL)										
STRUCTURE	LOCATION	X5030550								
STRUCTURE	LOCATION	SY								
090-0131	EXISTING PARAPET	653								
	TOTAL									

USER NAME = jochumsjg	DESIGNED -	REVISED -							F.A.I. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.	
	DRAWN -	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES					155	90-106X[VB-1,HB-2]BJR,BRR	TAZEWELL	45 7	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION							CONTRAC	T NO 68E27		
PLOT DATE = 6/24/2019	DATE -	REVISED -	SCA	SCALE:			OF	SHEETS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT	

MOBILIZATION							
STRUCTURE	67100100						
STRUCTURE	LSUM						
090-0127	0.5						
090-0131	0.5						
TOTAL	1						

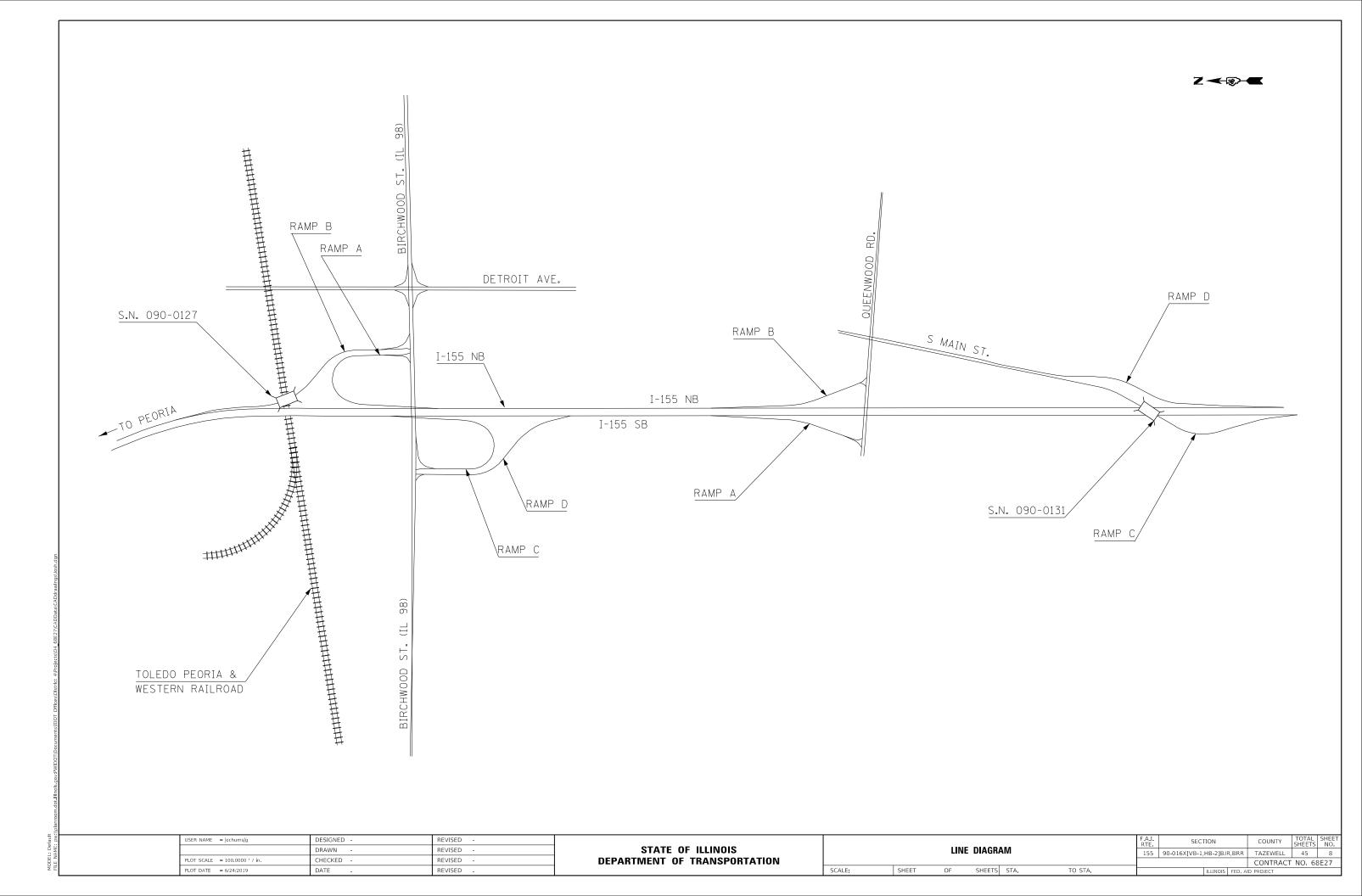
STRUCTURE

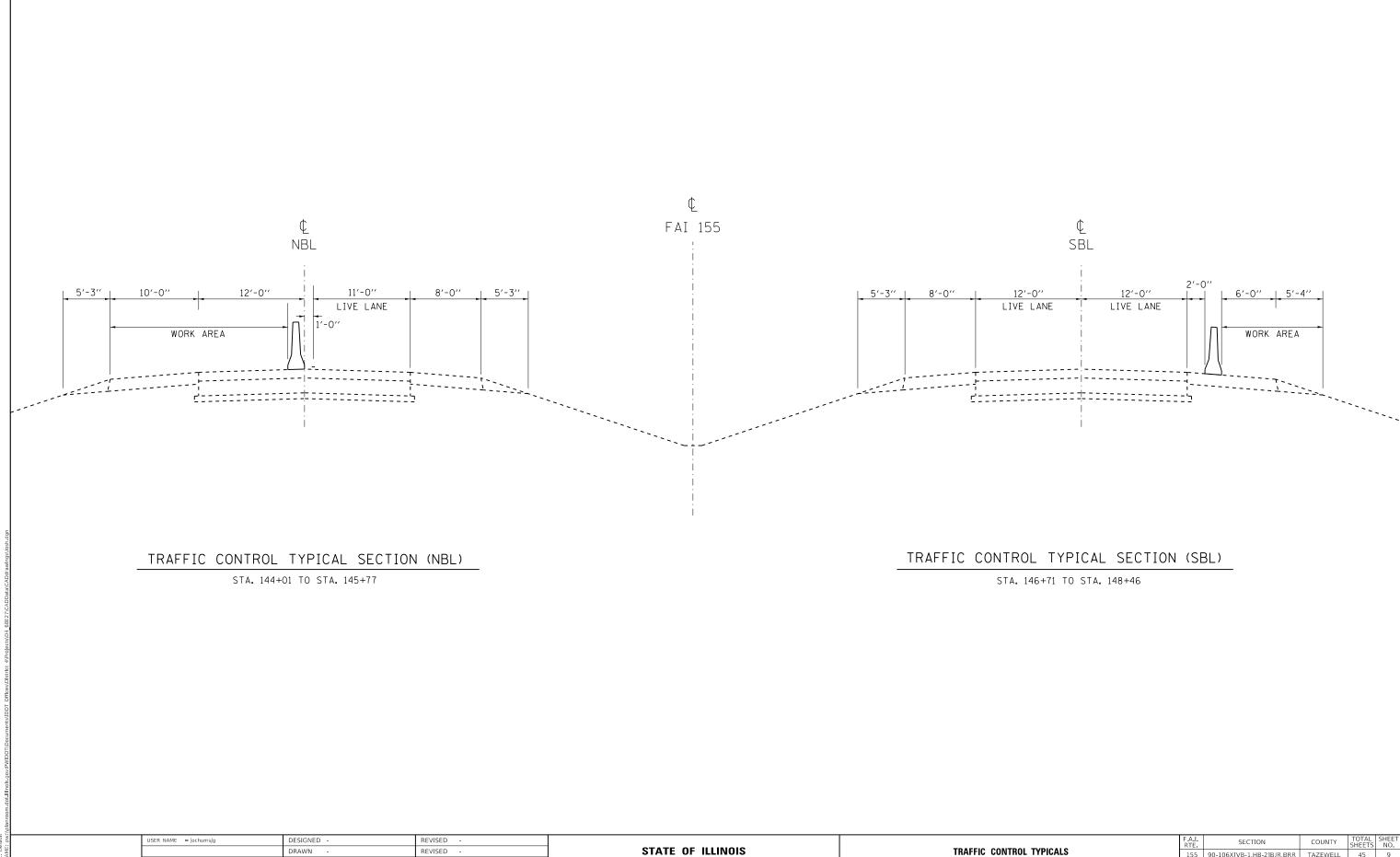
ENGINEER	ENGINEER'S FIELD OFFICE,									
TYPE B										
STRUCTURE	67000500									
STRUCTURE	CAL MO									
090-0127	2									
090-0131	2									
TOTAL	4									

TRAFFIC CONTROL AND PROTECTION, STANDARD 701402											
STRUCTURE	LOCATION	70100207									
STRUCTURE	EOCATION	EACH									
090-0131 LANE CLOSURE IN THE NBL OF I-155		1									
	TOTAL										

TRAFFIC CONTROL AND PROTECTION, STANDARD 701411										
STRUCTURE	LOCATION	70100420								
STRUCTURE	LOCATION	EACH								
090-0131	EXIT RAMP IN THE NBL OF I-155	1								
	TOTAL									

CHANGEABLE MESSAGE SIGN									
STRUCTURE	70106800								
SIRUCIURE	CAL MO								
090-0127	1								
090-0131	1								
TOTAL	2								





DEPARTMENT OF TRANSPORTATION

SCALE: 50

PLOT SCALE = 100.0000 ' / in.

PLOT DATE = 6/21/2019

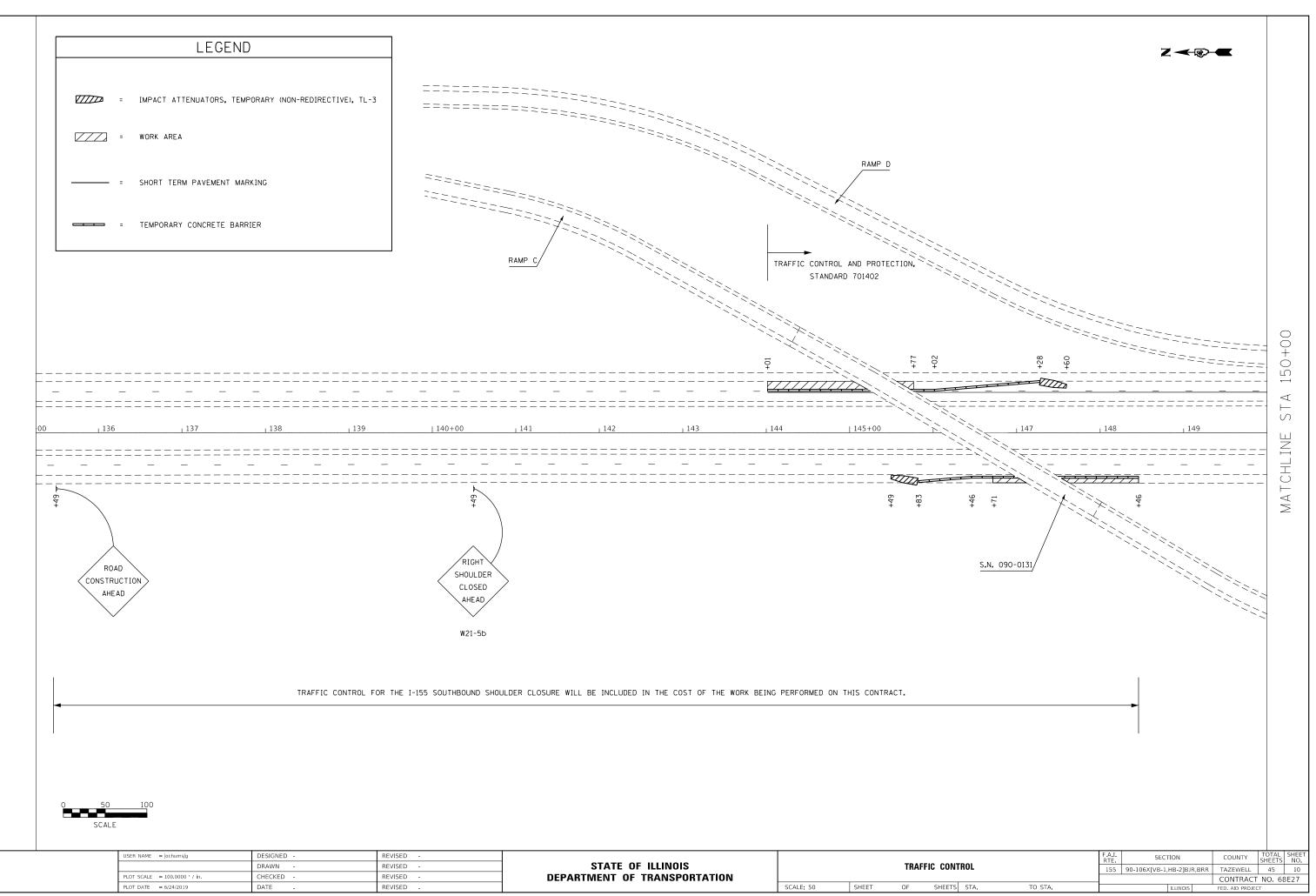
CHECKED -

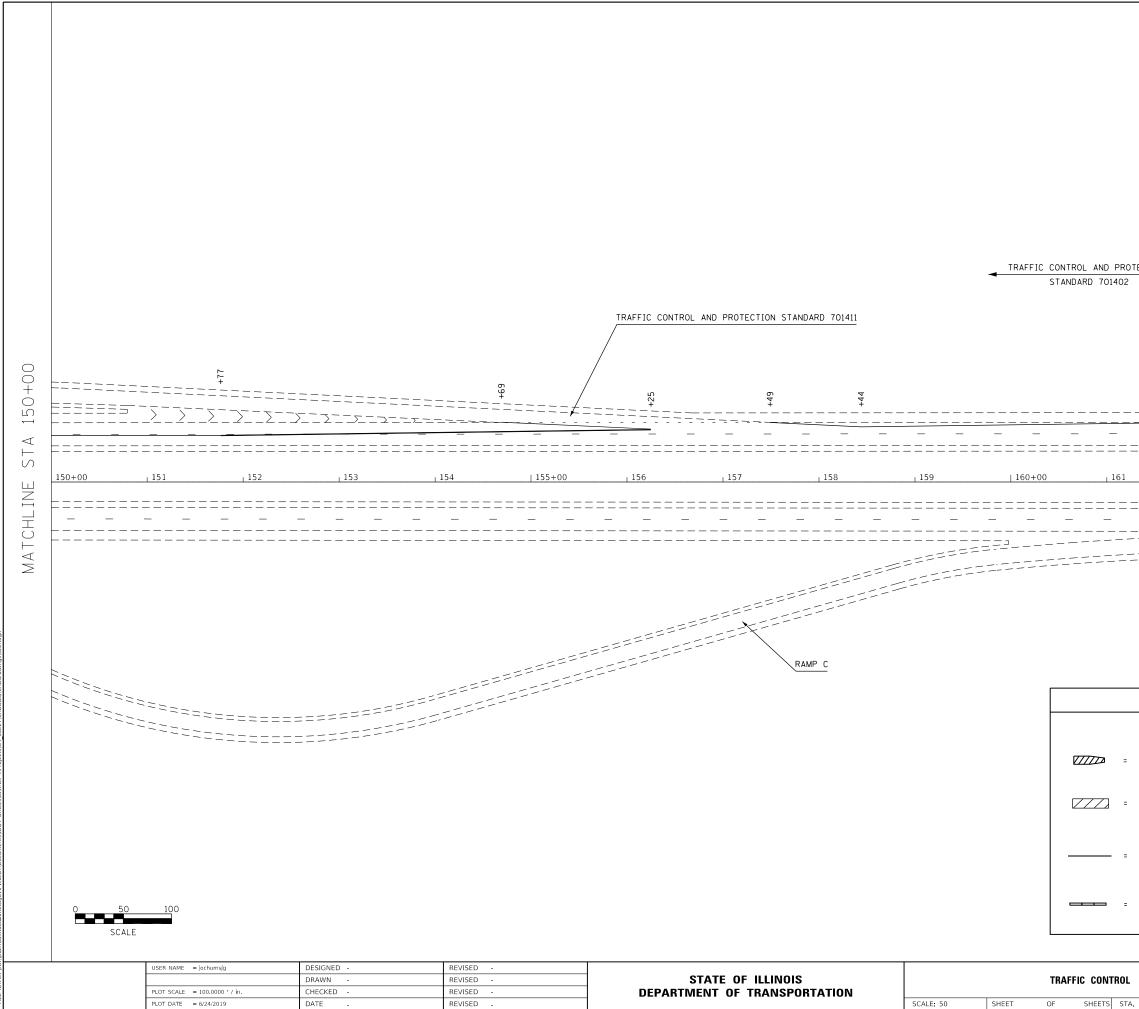
DATE

REVISED -

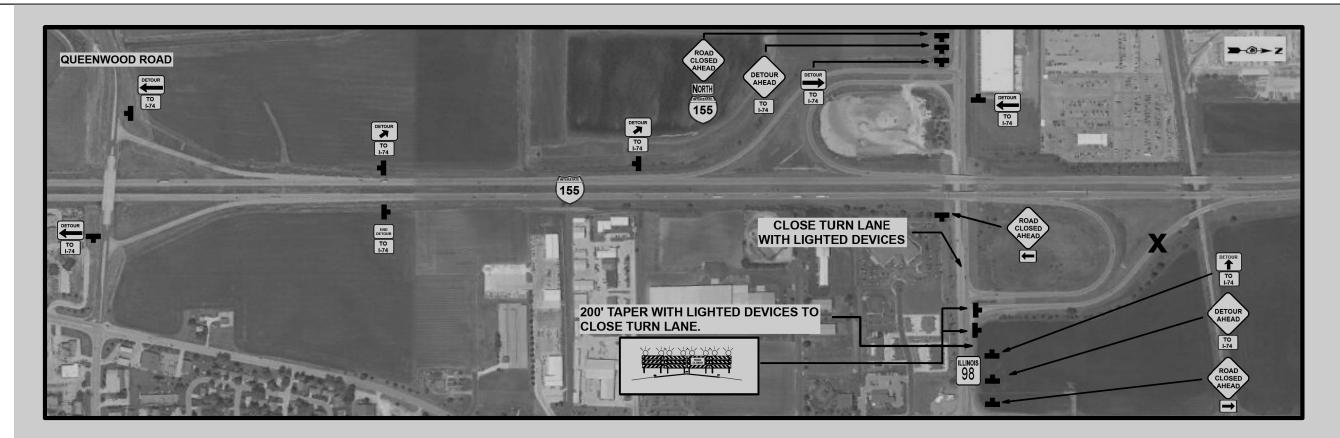
REVISED

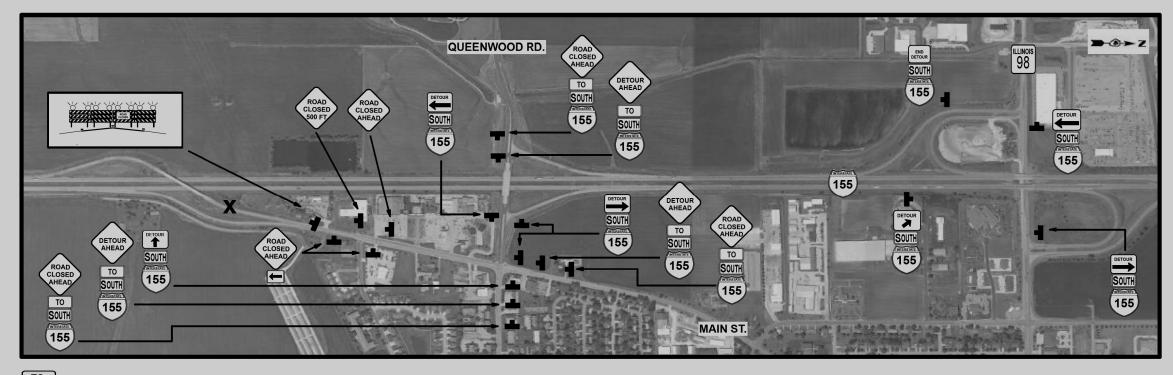
	TRAFFIC CONTROL TYPICALS						SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
							90-106X[VB-1,HB-2]BJR,BRR	TAZEWELL	45	9
								CONTRACT	NO. 68	3E27
	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJEC	ст.	





	Z < 🐵	
D PROTECTION, TRAFFIC CONTROL	AND PROTECTION STANDARD	701400
DI402	AND FROTECTION STANDARD	
ļ		
2 2 +		
·		
	=======================================	=====
161 160	163	4
<u>  161   162  </u>	163 16	
	=======================================	=====
LEGEND	)	
= IMPACT ATTENUATORS, TEMP	PORARY (NON-REDIRECTIVE), TL	3
] = WORK AREA		
- = SHORT TERM PAVEMENT MAR	KING	
TEMPORARY CONCRETE BARR	IER	
	F.A.I. SECTION	COUNTY TOTAL SHEE SHEETS NO.
NTROL	155 90-106X[VB-1,HB-2]BJR,BRR	TAZEWELL 45 11 CONTRACT NO. 68E27
S STA. TO STA.	ILLINOIS	FED. AID PROJECT





TO I-74 TYPICAL WHITE ON BLUE

ALL OTHER SIGNS-BLACK ON ORANGE ALL SIGNS AND LETTER HEIGHTS PER MUTCD.

TO TYPICAL WHITE ON BLUE

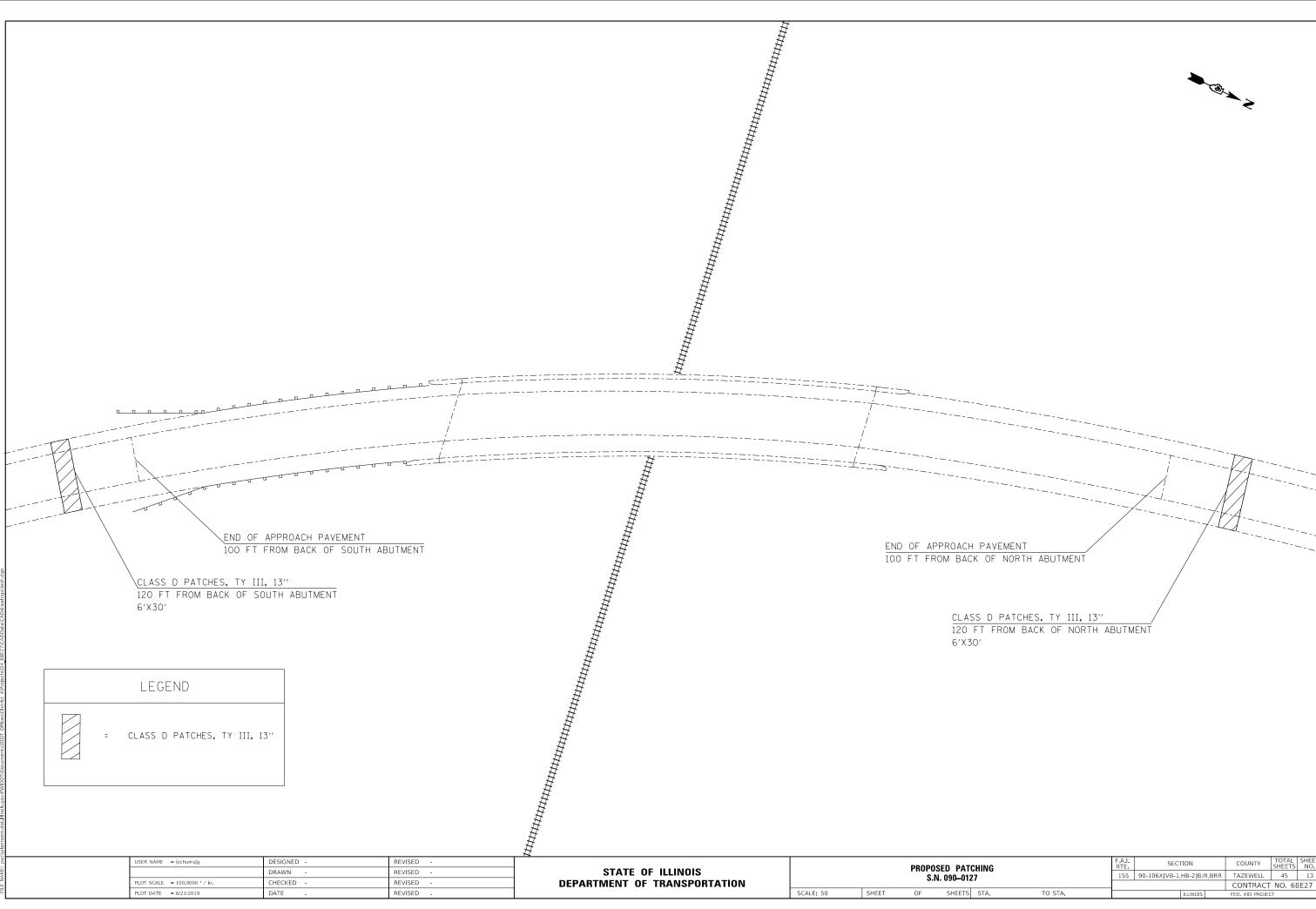
TYPICAL WHITE ON BLUE

(155) TYPICAL INTERSTATE COLORS

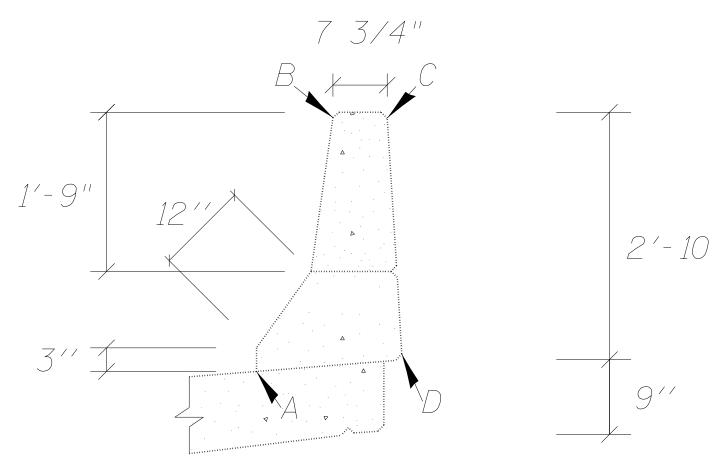
USER NAME = jochumsjg	DESIGNED -	REVISED -							F.A.I. BTE	SECTION	COUNTY	TOTAL SHEET	
	DRAWN -	REVISED -	STATE OF ILLINOIS			DET	OUR DET			155 90-10	06X[VB-1,HB-2]BJF	BRR TAZEWELL	45 12
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION							CONTRA	CT NO. 68E27		
PLOT DATE = 6/21/2019	DATE -	REVISED -		SCALE: 50	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PRO	JECT

Default ME: pw:\\planroom.dot.IIIInols.gov:PWIDOT\Documents\IE

TO SOUTH



ATCHING 1127		A I. RTE	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
		155	90-106X[VB-1,	HB-2]BJF	R,BRR	TAZEWELL	45	13
						CONTRACT	NO. 68	3E27
rs sta. to	STA.	ILLINOIS FED.				FED. AID PROJEC	т	



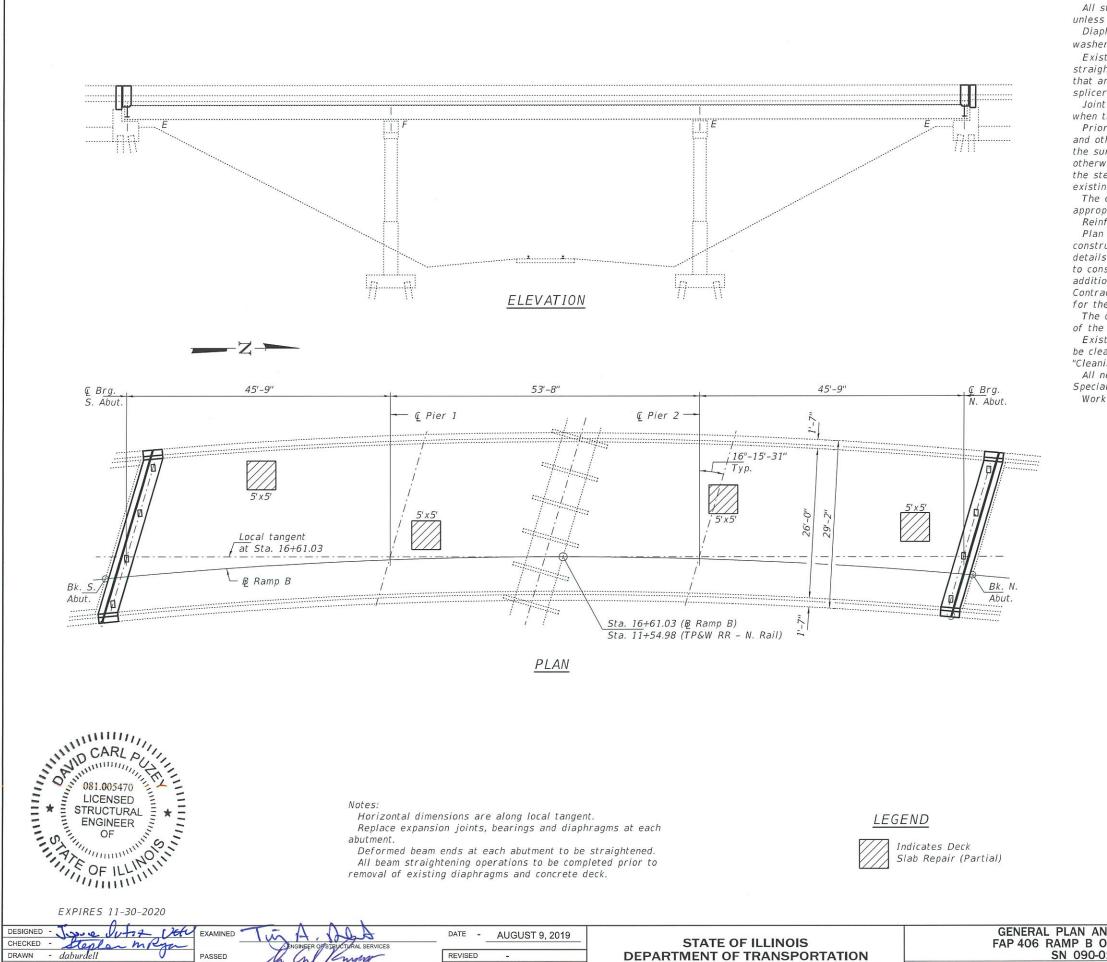
**BRIDGE PARAPET** 

# NOTE:

1. PROTECTIVE COAT (SPECIAL) TO COVER FROM POINT A THROUGH POINTS B, C, AND D OF THE EXISTING PARAPET.

USER NAME = jochumsjg	DESIGNED -	REVISED -						F.A.I.	SECTION		COUNTY	TOTAL SHEET					
	DRAWN -	REVISED -				PARAPET SEALING DETAIL S.N. 090–0131							155 9	0-106X[VB-1,HB-2	BJR,BRR	TAZEWELL	45 14
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		5.11. 090-0151						CONTRACT	NO. 68E27					
PLOT DATE = 6/21/2019	DATE -	REVISED -		SCALE: 50	SHEET	OF	SHEETS STA.	TO STA.		ILLING	DIS	FED. AID PROJECT	.т				

2'-10 1/2"''



REVISED

CHECKED -

SA

## GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Diaphragm connection holes shall be  ${}^{15}\!\!\!/_{16}{}''$ Ø for  ${}^3\!\!4''$ Ø bolts. Two hardened washers shall be required at diaphragm connections.

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

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

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project. Reinforcement bars designated (E) shall be epoxy coated.

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

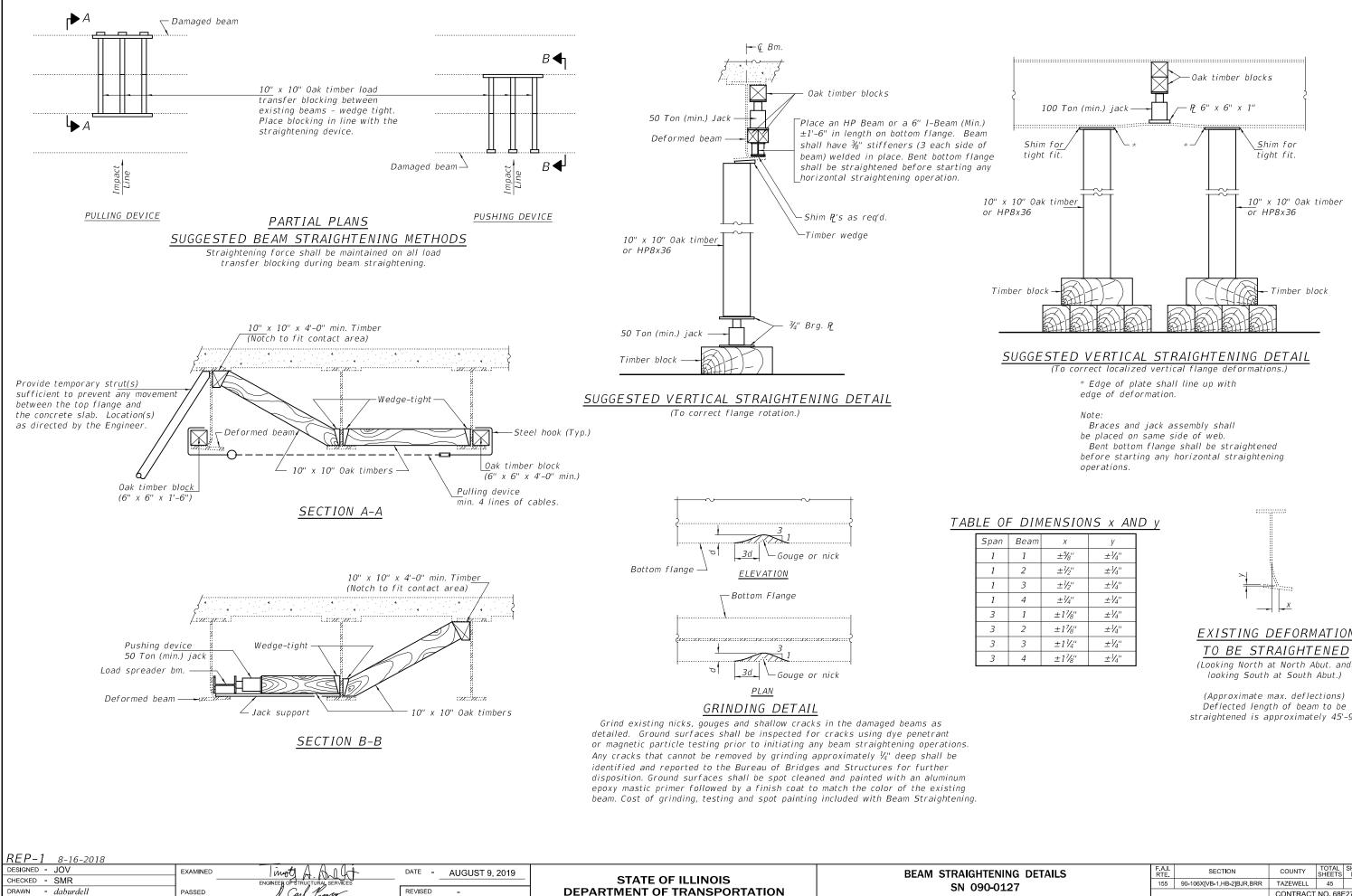
The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure. Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the special provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures". All new structural steel and bearing assembly shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing for Structural Steel". Work to be completed under road closure.

## TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	8.0
Concrete Superstructure	Cu. Yd.	8.1
Preformed Joint Strip Seal	Foot	59
Reinforcement Bars, Epoxy Coated	Pound*	1340
Protective Coat	Sq. Yd.	25
Structural Steel Removal	Pound	1920
Furnishing and Erecting Structural Steel	Pound	4100
Elastomeric Bearing Assembly, Type I	Each	8
Jack and Remove Existing Bearings	Each	8
Anchor Bolts, 1"	Each	32
Beam Straightening	L. Sum	1
Deck Slab Repair (Partial)	Sq. Yd.	12

\* Apply to new concrete only.

ND ELEVATION	F.A.I. RTE.				TOTAL SHEETS	SHEET NO.
OVER BSNF RR	155	155 90-106X[VB-1,HB-2]BJR,BRR				15
0127				CONTRACT	NO. 68	27
8 SHEETS		ILLINOIS	FED. A	ID PROJECT		



Carl M REVISED **DEPARTMENT OF TRANSPORTATION** -REVISED

PASSED

CHECKED - JOV SMR

SN 090-0 SHEET NO. 2 OF

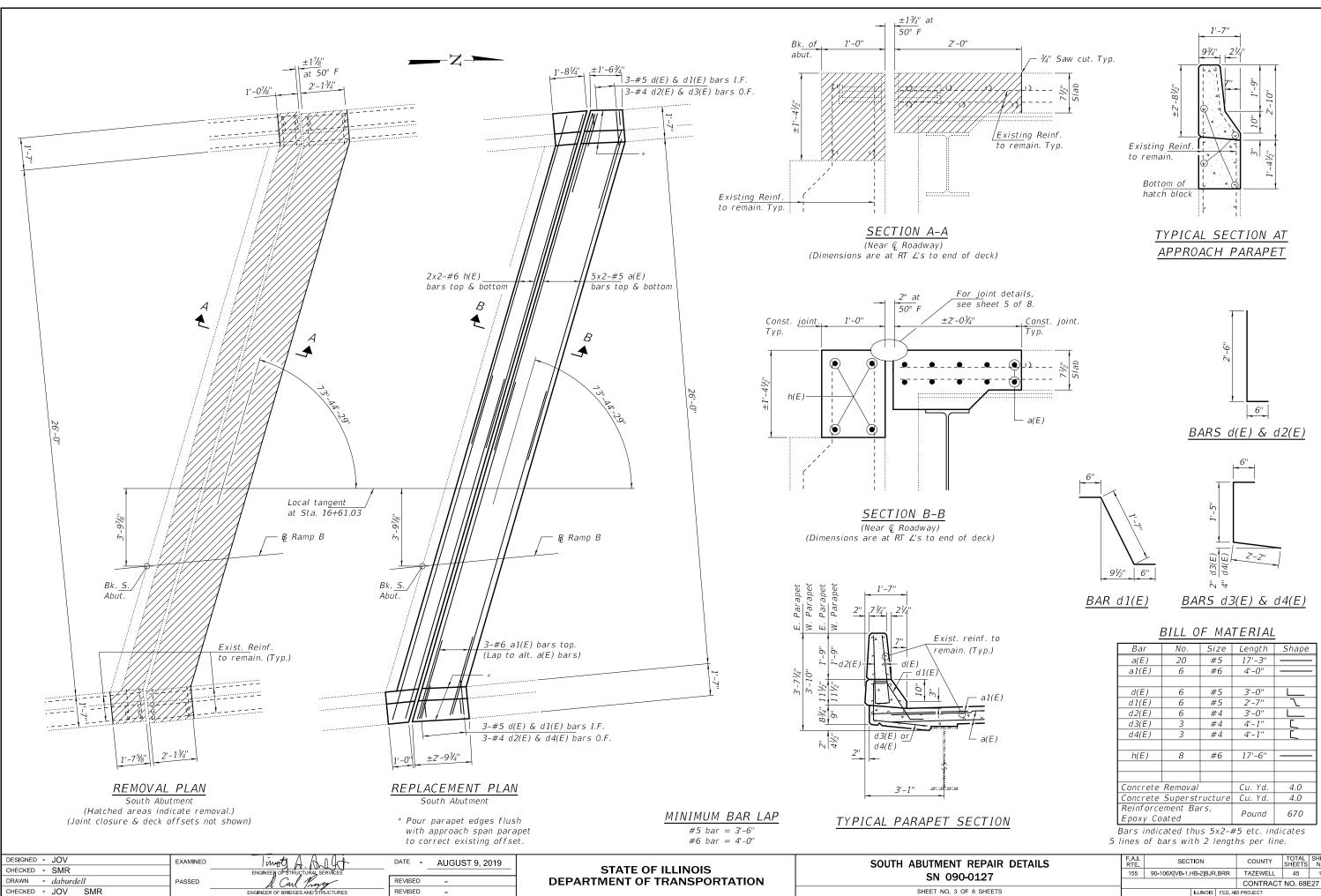
1	Beam	X	у
	1	±%"	$\pm \frac{1}{4}''$
	2	$\pm \frac{1}{2}''$	$\pm \frac{1}{4}''$
	3	±1⁄2''	$\pm \frac{1}{4}''$
	4	$\pm \frac{1}{4}$ "	$\pm \frac{1}{4}''$
	1	±1%"	$\pm \frac{1}{4}''$
	2	$\pm 1\%''$	$\pm \frac{1}{4}''$
	3	±1¼"	$\pm \frac{1}{4}$ "
	4	±1%"	$\pm \frac{1}{4}''$

## EXISTING DEFORMATION

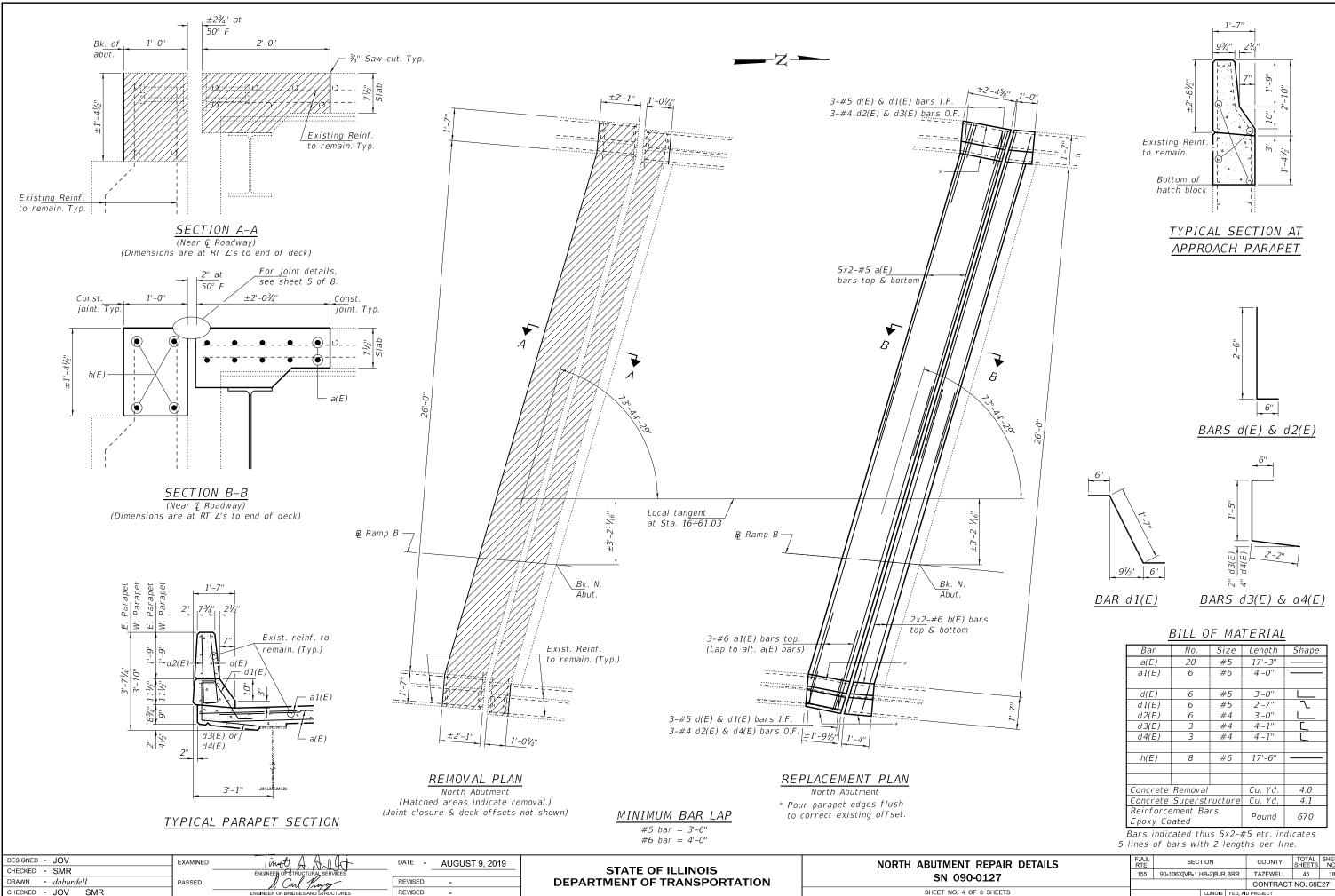
TO BE STRAIGHTENED

Deflected length of beam to be straightened is approximately 45'-9".

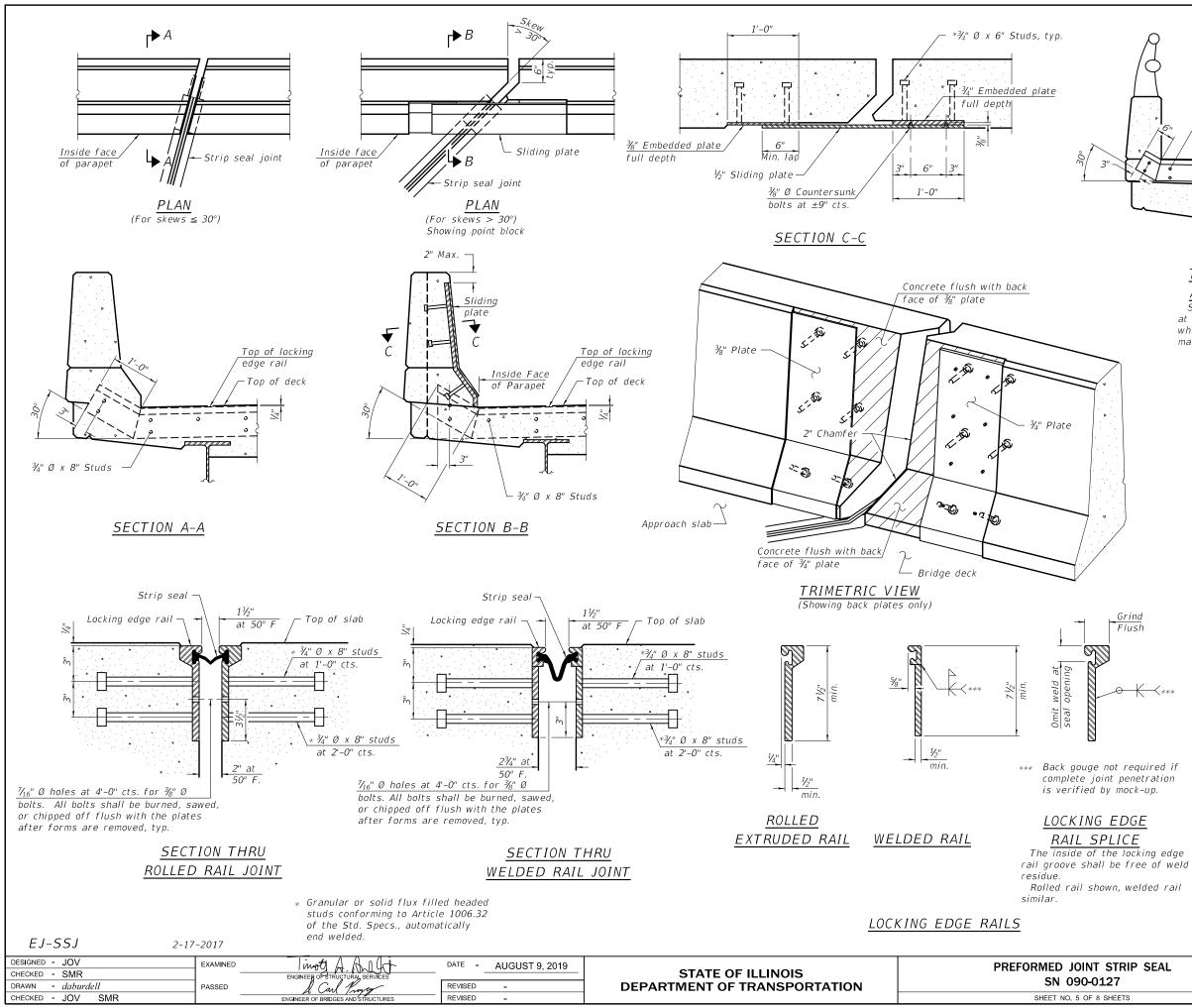
NING DETAILS		SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
		90-106X[VB-1,HB-2]BJR,BRR			TAZEWELL	45	16
5121					CONTRACT	NO. 68E	27
8 SHEETS			ILLINOIS	FED, AI	D PROJECT		



REPAIR DETAILS		SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
		55 90-106X[VB-1,HB-2]BJR,BRR			TAZEWELL	45	17
5121					CONTRACT	NO. 68E	27
8 SHEETS	ILLINOIS FED.			FED. A	D PROJECT		



REPAIR DETAILS		SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
0127	155	90-106X[VB-1,HB-2]BJR,BRR			IB-2]BJR,BRR TAZEWELL		18
5121					CONTRACT	NO. 68E	27
8 SHEETS			ILLINOIS	FED. A	D PROJECT		



$-\frac{3}{4}$ " Ø x 8" Studs	
or median	
	edge rail

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.

### 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 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.

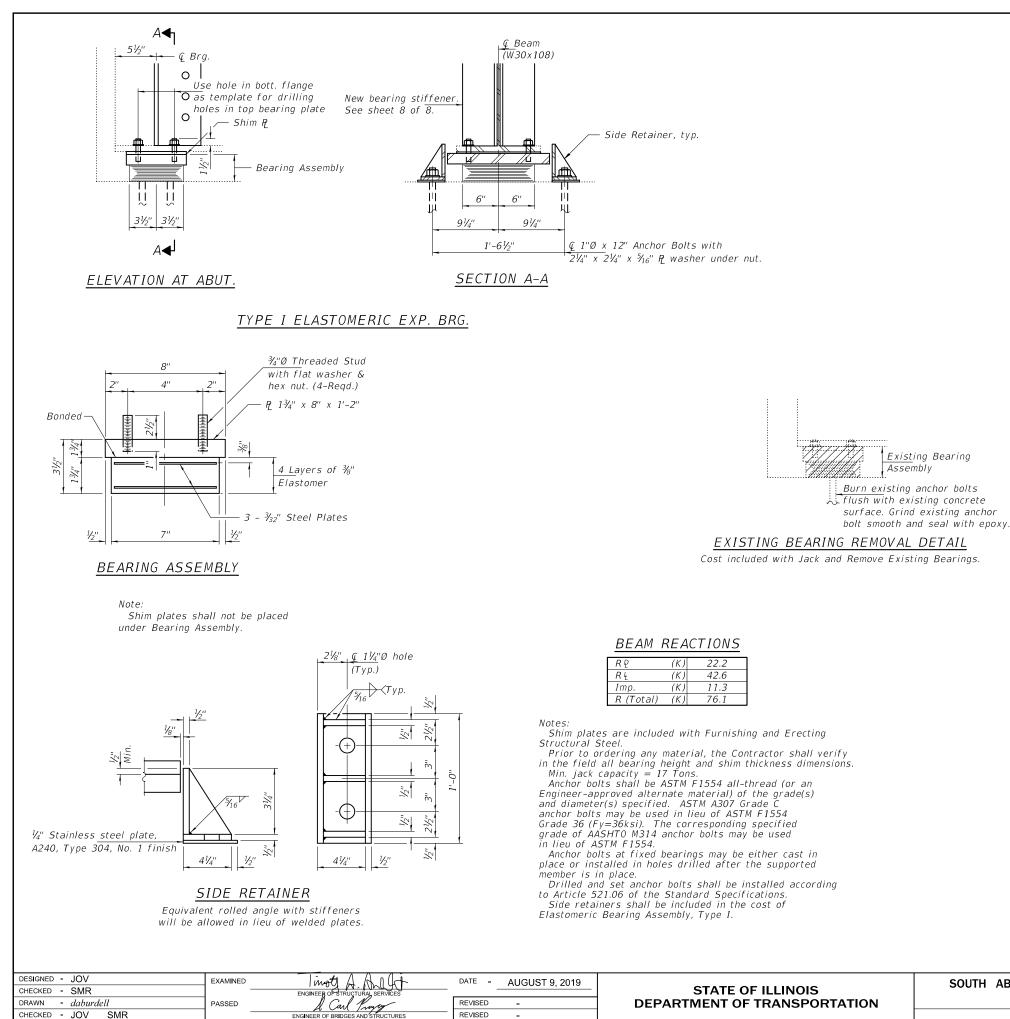
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments shall be  $ar3_{16}",$ 

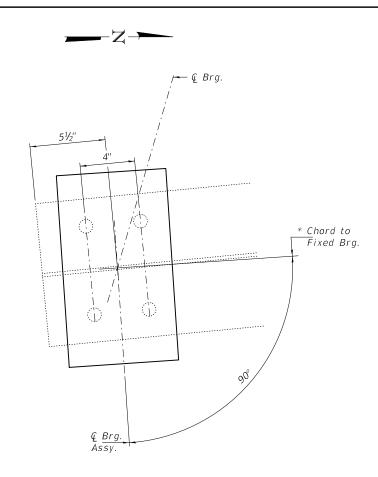
sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.

Item	Unit	Total
Preformed Joint Strip Seal	Foot	59

T STRIP SEAL		SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
		90-106X[VB-1,HB-2]BJR,BRR			TAZEWELL	45	19
5121	CONTRACT				NO. 68E	27	
8 SHEETS			ILLINOIS	FED, A	D PROJECT		



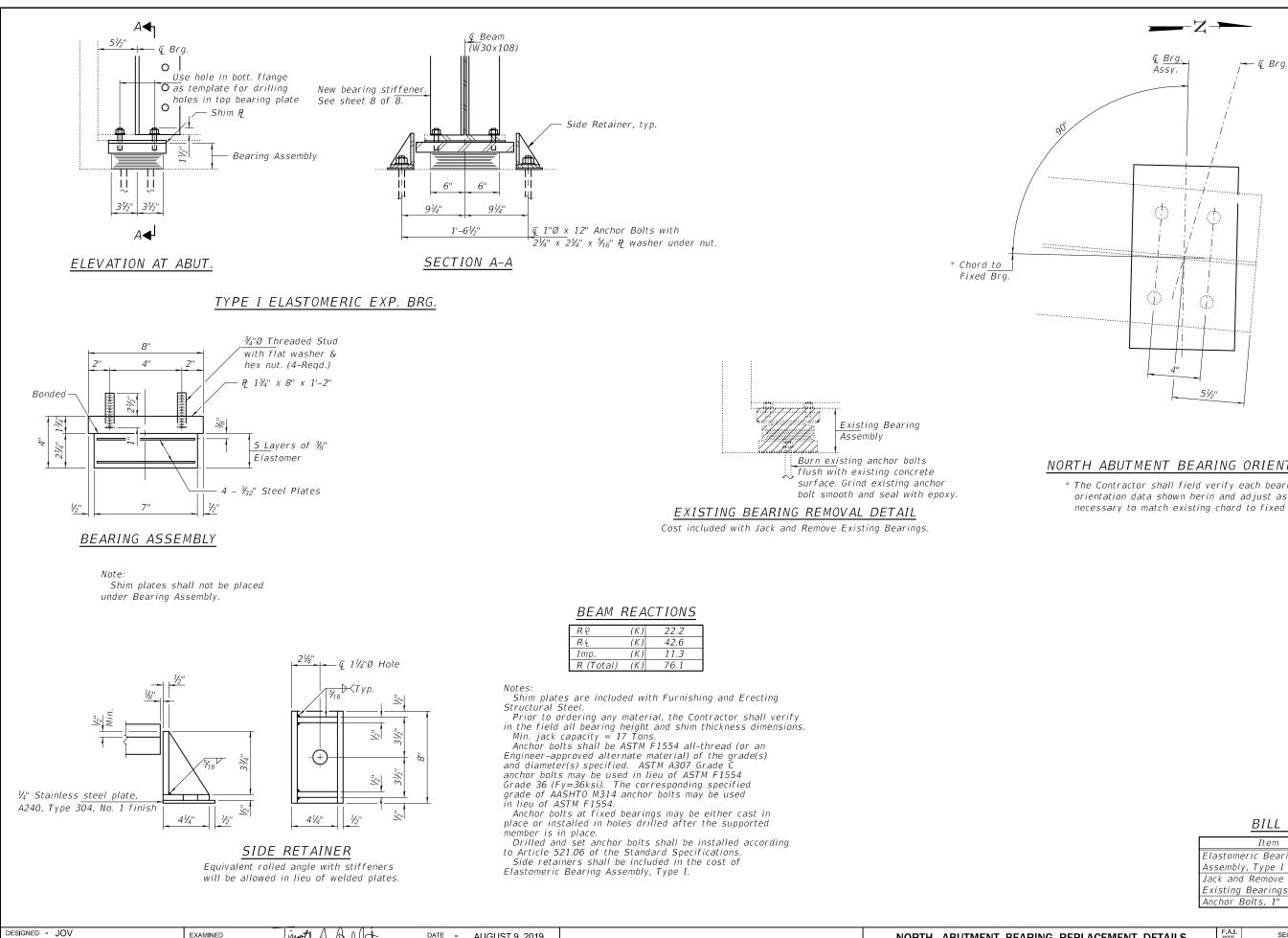


SOUTH ABUTMENT BEARING ORIENTATION

\* The Contractor shall field verify each bearing orientation data shown herin and adjust as necessary to match existing chord to fixed bearing.

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	4
Jack and Remove Existing Bearings	Each	4
Anchor Bolts, 1"	Each	16

	F.A.I.					TOTAL	OUFET
REPLACEMENT DETAILS		SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
127	155	55 90-106X[VB-1,HB-2]BJR,BRR		TAZEWELL	45	20	
)121					CONTRACT	NO. 68E	27
8 SHEETS			ILLINOIS	FED. A	D PROJECT		



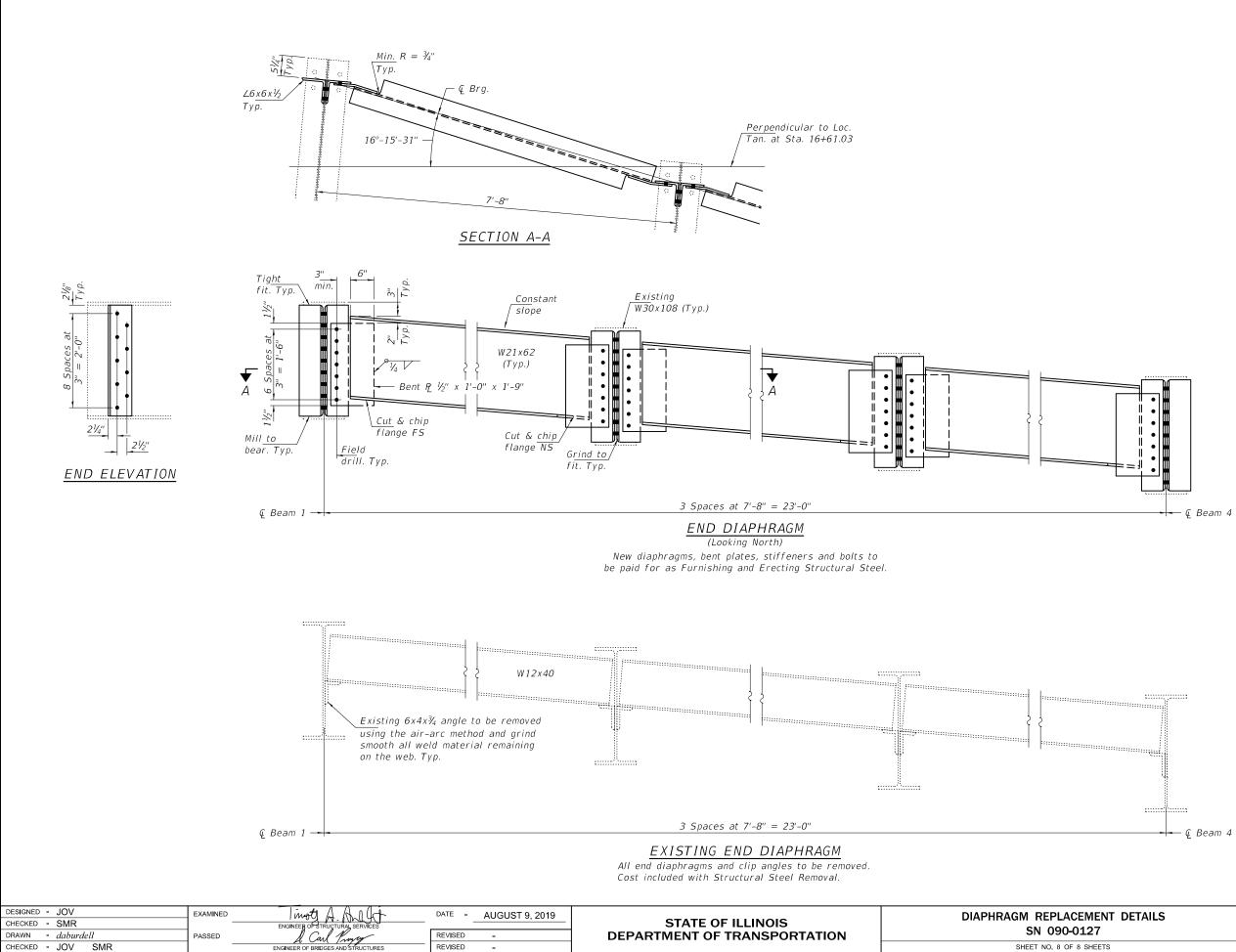
DESIGNED - JOV CHECKED - SMR	EXAMINED	ENGINEER OF STRUCTURAL SERVICES	DATEAUGUST 9, 2019	STATE OF ILLINOIS	NORTH ABUTMENT BEARING R
DRAWN - daburdell	PASSED	Carl Prince	REVISED -	DEPARTMENT OF TRANSPORTATION	SN 090-01
CHECKED - JOV SMR		ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		SHEET NO. 7 OF 8 S

## NORTH ABUTMENT BEARING ORIENTATION

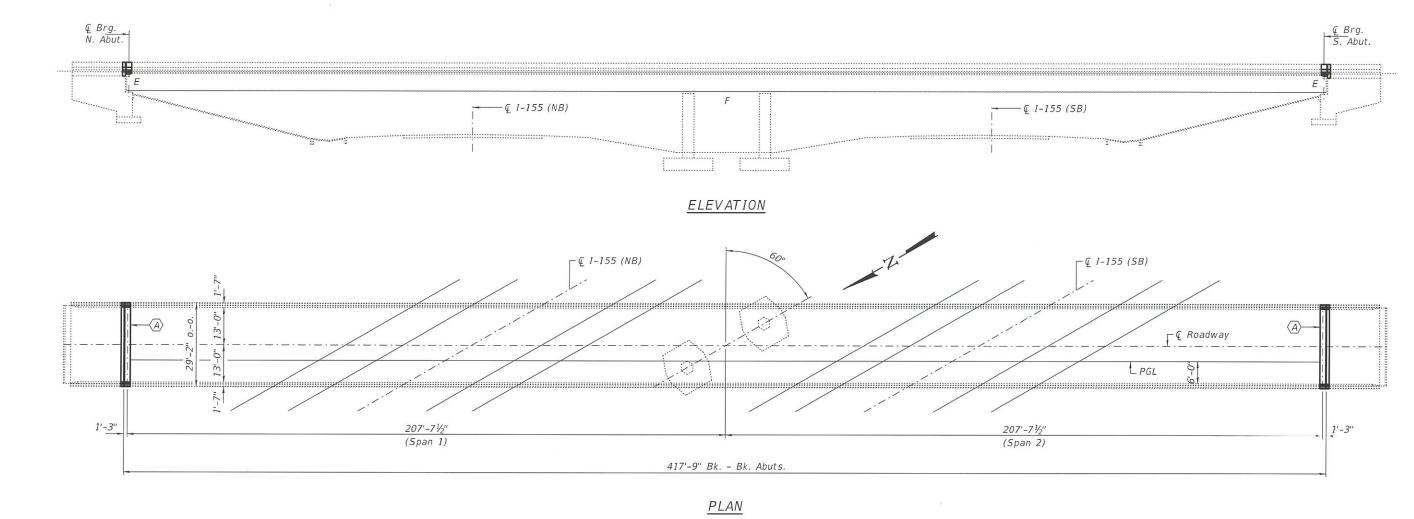
\* The Contractor shall field verify each bearing orientation data shown herin and adjust as necessary to match existing chord to fixed bearing.

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	4
Jack and Remove Existing Bearings	Each	4
Anchor Bolts, 1"	Each	16

REPLACEMENT DETAILS		SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
127	155	155 90-106X[VB-1,HB-2]BJR,BRR		TAZEWELL	45	21	
)121					CONTRACT	NO. 68E	27
8 SHEETS			ILLINOIS	FED. A	D PROJECT		



EMENT DETAILS		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		55 90-106X[VB-1,HB-2]BJR,BRR			TAZEWELL	45	22
					CONTRACT	NO. 68E	27
8 SHEETS			ILLINOIS	FED. AI	D PROJECT		



 $\langle A \rangle$  - Remove existing Expansion Joint and install new Preformed Joint Strip Seal.

## GENERAL NOTES

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

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

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



EXPIRES 11-30-2020

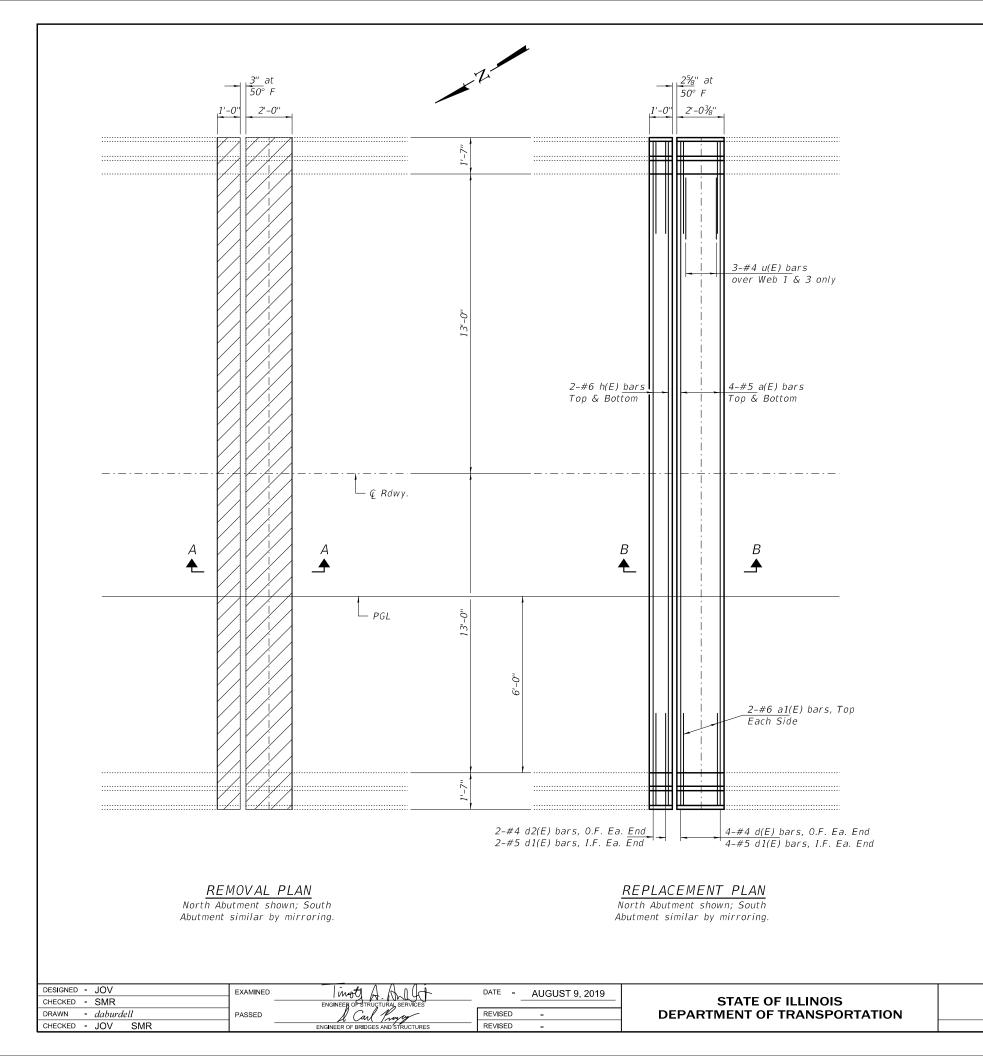
DESIGNED - Jaroc Jutiz War EXAMINED TWA A Jut DATE -	AUGUST 9, 2019 STATE OF ILLINOIS	GENERAL PLAN AND ELEVATION	COUNTY TOTAL SHEET SHEETS NO.
DRAWN     -     daburdell     PASSED     Manual Manual     REVISED       CHECKED     -     SMR     ENGINEER OF BRIDGED AND STRUCTURES     REVISED	- DEPARTMENT OF TRANSPORTATION	SN 090-0131	CONTRACT NO. 68E27

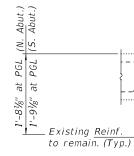
	/ /					
	Ę	Roadway	A	·		
{	PGL	.0- .0-				
					1'-3"	

TOTAL BILL OF MATERIAL

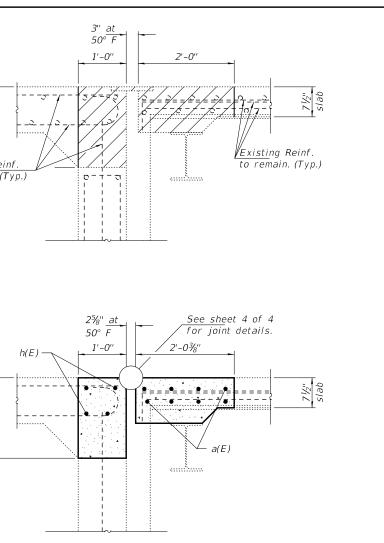
UNIT	QUANTITY
Cu. Yd.	9.1
Cu. Yd.	9.2
Foot	56
Pound	1040
Sq. Yd.	23
	Cu. Yd. Cu. Yd. Foot Pound

\* Apply to new concrete only.



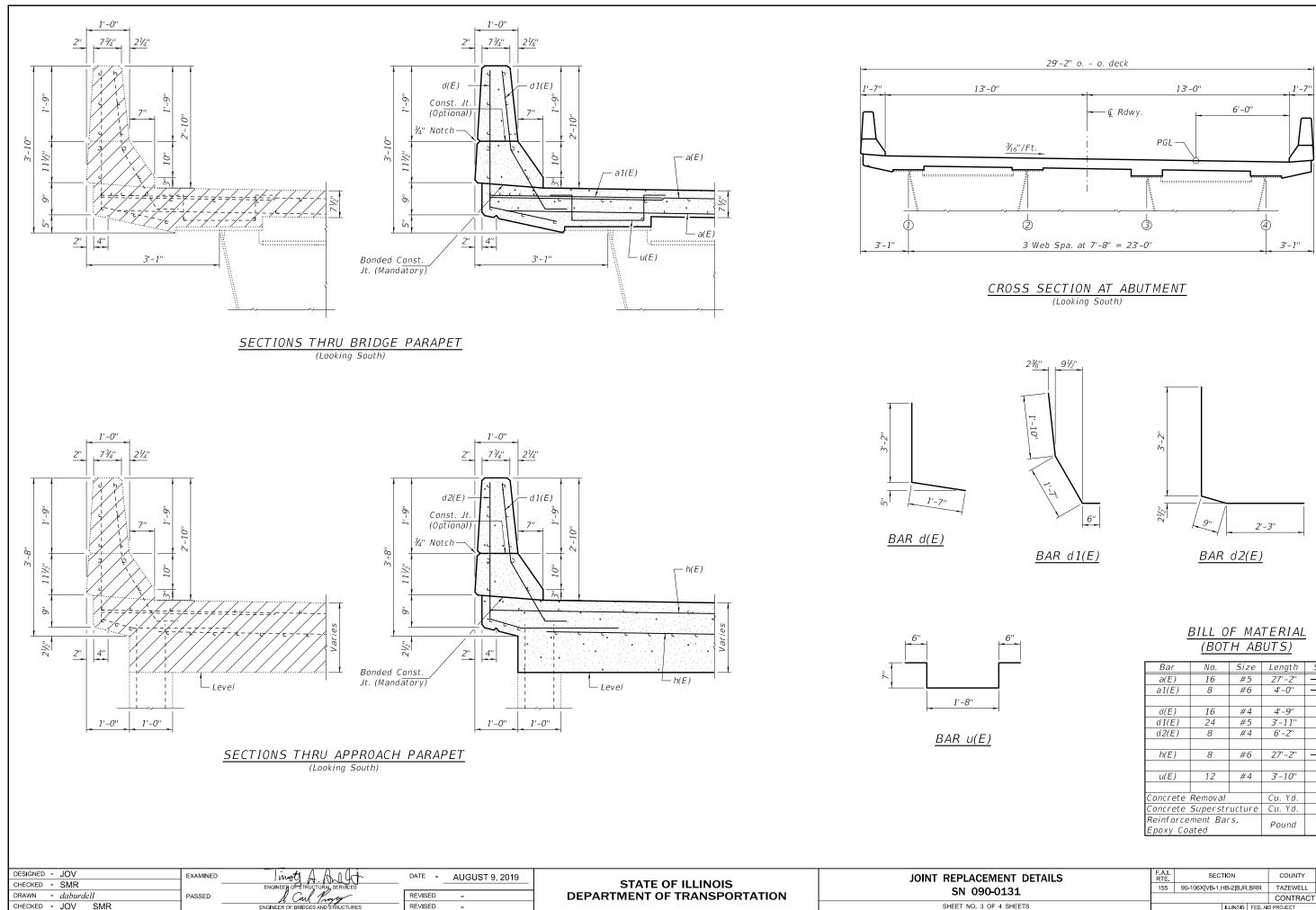


JOINT REPLACEMENT DET SN 090-01 SHEET NO. 2 OF 4



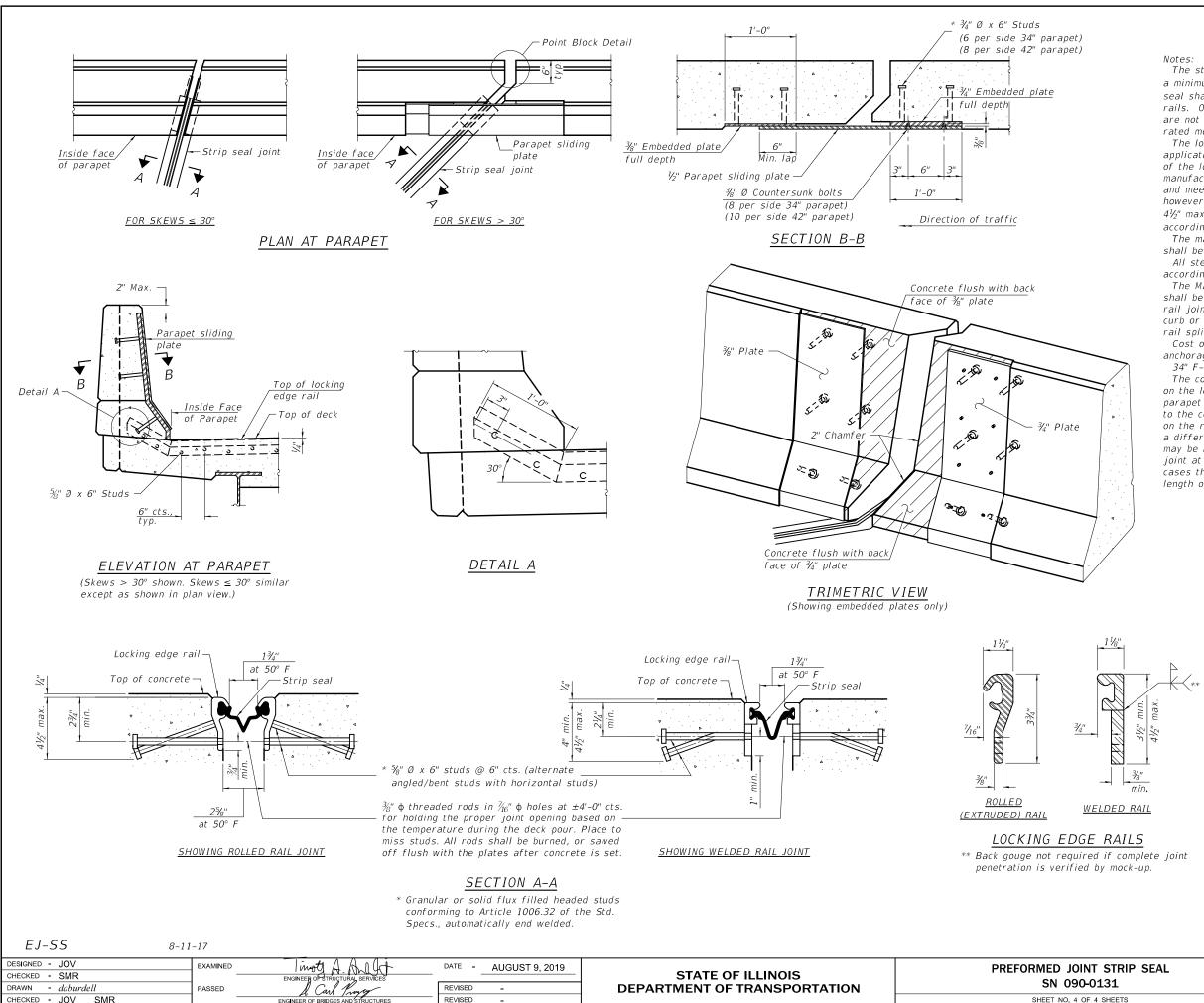
Notes: See sheet 3 of 4 for Section Thru Bridge Parapet, Section Thru Approach Parapet, Cross Section, Bill of Material and reinforcement bending diagrams. Hatched areas indicate Concrete Removal.

TAILS - ABUTMENTS		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		155 90-106X[VB-1,HB-2]BJR,BRR			TAZEWELL	45	24
)131	CONTRACT					NO. 68E	27
4 SHEETS			ILLINOIS	FED, AI	D PROJECT		



Bar	No.	Size	Length	Shape
a(E)	16	#5	27'-2''	
a1(E)	8	#6	4'-0''	
d(E)	16	#4	4'-9''	Ĺ
d1(E)	24	#5	3'-11''	l
d2(E)	8	#4	6'-2''	L
h(E)	8	#6	27'-2''	
u(E)	12	#4	3'-10''	Ц
Concrete	Removal		Cu.Yd.	9.1
Concrete	Superstr	ucture	Cu.Yd.	9.2
Reinforce Epoxy Co		5,	Pound	1040

ENT DETAILS	F.A.I. RTE	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
0131		90-106X[VB-1,HB-2]BJR,BRR			TAZEWELL	45	25
131	CONTRA					NO. 68E	27
4 SHEETS	ILU			FED. A	D PROJECT		



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<sup>1</sup>/<sub>2</sub>" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

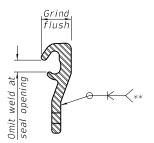
The manufacturer's recommended installation methods shall be followed.

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  $\frac{3}{6}$ " 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.

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

34" F-shape barrier shown, 42" F-shape 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.

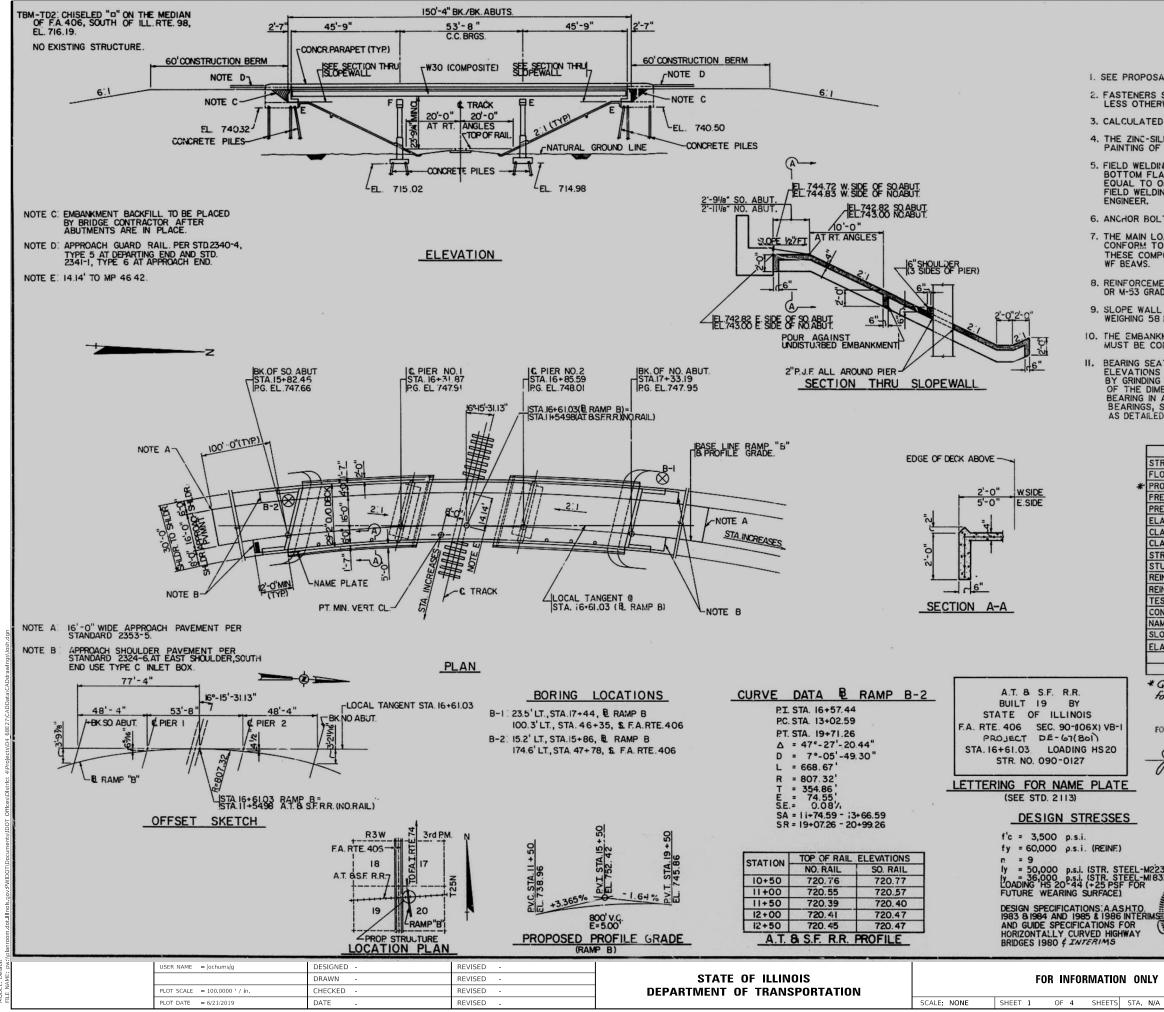


## LOCKING EDGE RAIL SPLICE

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

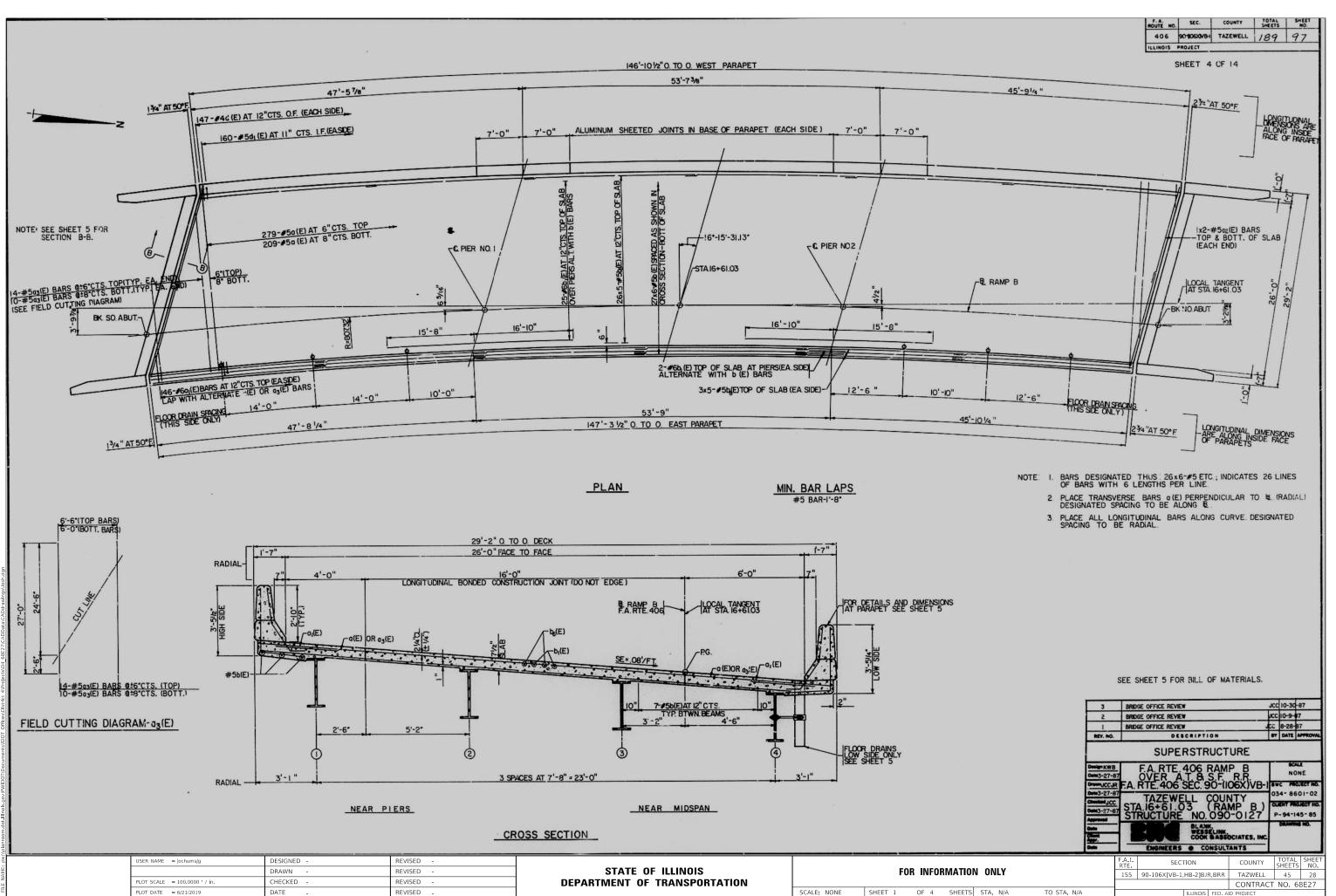
Item	Unit	Total
Preformed Joint Strip Seal	Foot	56

T STRIP SEAL		SECTION			COUNTY	TOTAL	SHEET NO.
		RTE.         SECTION           155         90-106X[VB-1,HB-2]BJR,BRR			TAZEWELL	45	26
0131	CONTRACT NO.					NO. 68E	27
4 SHEETS			ILLINOIS	FED. A	D PROJECT		

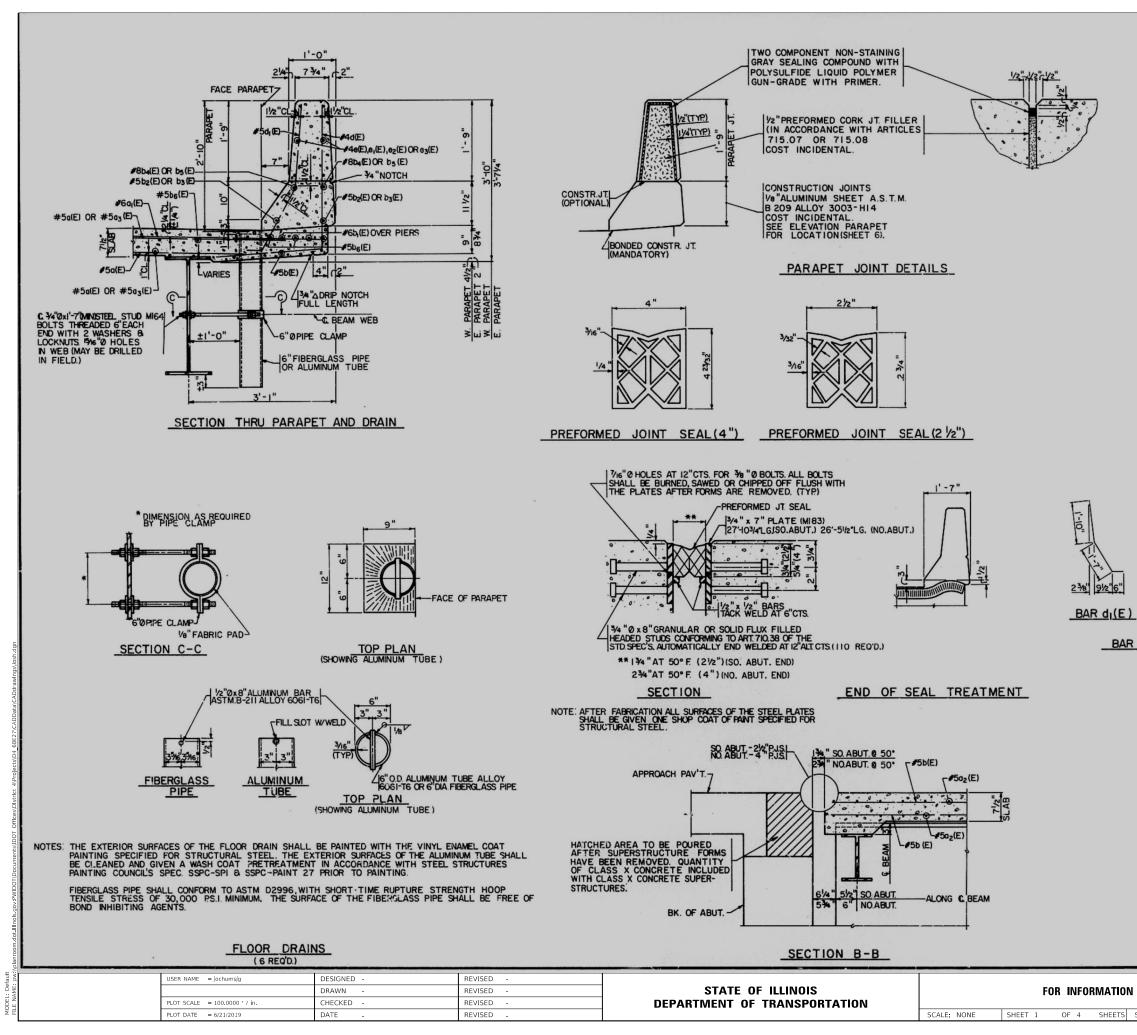


	ROUTE NO.	INCOMENCIES IN THE	COUNTY	SHEETS	NO.
	406	90-106XWB-	TAZEWELL	189	94
	Contraction and				
		TIOF	14		
E PROPOSAL FOR BORING DATA.	AL NOT	<u>r.s</u>			
ASTENERS SHALL BE HIGH STRENGTH BOLTS	BOLTS	S <sup>3</sup> /4°Φ,	OPEN HOLE	S 13/16"\$,	UN-
ALCULATED WEIGHT OF STRUCTURAL STEEL	= 12,680	LBS. (	MI83)		
E ZINC-SILICATE AND VINYL PAINT SYSTEM	59,370 SHALL	D LBS. (	M223), GRAD	AND FI	ELD
ELD WELDING OF CONSTRUCTION ACCESSORI		NOT BE	PERMITTED	TO THE	
DTTOM FLANGE OF BEAMS OR GIRDERS NOR JUAL TO ONE-FOURTH THE SPAN LENGTH E ELD WELDING IN OTHER AREAS WILL BE PER IGINEER.	TO THE	TOP FL	ANGE FOR	A DISTA	NCE S.
CHOR BOLTS SHALL BE SET BEFORE BOLT	ING DIAPH	RAGMS	OVER SUPP	ORTS.	
E MAIN LOAD CARRYING MEMBER COMPONEN DNFORM TO THE SUPPLEMENTAL REQUIREME HESE COMPONENTS ARE THE WIDE FLANGE B BEAMS.	TS SUBJ	ECT TO	TENSILE S	TRESS S	2
EINFORCEMENT BARS SHALL CONFORM TO THE M-53 GRADE 60.	E REQUIR	EMENTS	OF AASHT	о м-зі,	M-42
OPE WALL SHALL BE REINFORCED WITH WEI EIGHING 58 LBS.PER 100 SO. FT.					
E EMBANKMENT CONFIGURATION SHOWN SHA JST BE CONSTRUCTED PRIOR TO CONSTRUCT	TION OF 1	THE ABU	ITMENTS.		
ARING SEAT SURFACES SHALL BE CONSTRU- EVATIONS WITHIN A TOLERANCE OF 1/6 INC: Y GRINDING THE SURFACE OR BY SHIMMING T F THE DIMENSIONS OF THE BOTTOM BEARING EARING IN ADDITION TO ALL OTHER PLATES EARINGS, SHIMS OF THE DIMENSIONS OF TO S DETAILED.	H. ADJUS THE BEAF IG PLATE OR SHIN P PLATE	TMENTS RING. TY SHALL S. FOR SHALL	SHALL BE WO 1/8" ADJU BE PROVID TYPE I EL BE PROVIDE	MADE EI	THER
GENERAL NOTES CONTINU	JED ON S	HEET N	0. 2)		
	OF MA			1	
ITEM STRUCTURE EXCAVATION		YD	IPER SUB		
FLOCR DRAINS	EAC	:H	6	- 6	
* PROTECTIVE COAT FREFORMED JOINT SEAL 21/2*			31	- 517	
PREFORMED JOINT SEAL 212 PREFORMED JOINT SEAL 4			30	- 31	
ELASTOMERIC BEARING ASSEMBLY, TYP	PE I EAC	н —	8	8	
CLASS X CONCRETE	CU.	YD	180.0	6 180.	
CLASS X CONCRETE SUPERSTRUCTUR	ES CU. L. S		.1	- 138.	0
STUD SHEAR CONNECTORS	EAC		268	- 2,26	8
REINFORCEMENT BARS	LB.		200 20,54		
REINFORCEMENT BARS (EPCXY COATED	) LB.		,520	- 34,52	
TEST PILE CONCRETE	EAC LIN.		2 2370	237	0
CONCRETE PILES	EAC		2370	237	-
SLOPE WALL 4 INCH	SQ.		533		3
ELASTOMERIC BEARING ASSEMBLY, TYP			- 4	4	_
				_	- 1
* Quantity includes Bridge Deck for Curing and Texturing APPROVED	Surface	e . Sec	Special	Provisi	ions
FOR STRUCTURAL ADEQUACY ONLY					
James Playfurn Engineer of Bridges and Structures					
TE3 BRIDGE	E OFFICE REV	EW		-cc   0-3	0-87
2 BRIDGE	E OFFICE REV	EW		-01 00°	9-87
ES I BRIDGE	DE	EW	1 N	JCC 2-2	8-87
E) GENE	RAL PL	AN A	AND ELEN	ATION	
STEEL-M223),GRADE, 50 Deter 3-27-87	A. RTE	406 F	RAMP B		NONE
STEEL-M223),GRADE 50 STEEL-M183) SF FOR	TE.406	SEC. 9	S.F. R.R. 0-(106X)V	B-I awc	PHOJECT NO.
	TAZEWE	ELL C	OUNTY	034-	8601-02
ASHTO	IG+61.0	03 (1	RAMP B		MOJECT NO. 4-145-85
FOR CIT CIT	JUN URL			DRA	WING NO.
ASHTO. AGE INTERIMS GFOR GHWAY GH		COOK	LINK, ASSOCIATES,	INC.	
E.A.L	ENGINEERS	· CON	SULTANTS	-	TAL   SHEET
		CTION	COUN	SHE	ETS NO.
	90-106X[VB-		CONT	RACT NO	5 27 . 68E27
S STA. N/A TO STA. N/A		ILLINOIS	FED. AID PROJECT		

ROUTE NO. SEC. COUNTY SHEETS NO.



s	STA.	N/A	



SUPERSTRUCTURE Design:KWB F.A. RTE. 406 RAMP B Design:2-27-87 OVER A.T.B. S.F. R.R. Design:KWB F.A. RTE. 406 SEC. 90-(106X)VB	-100	 	N	ONE
		_		
P BRIDGE OFFICE REVEW REV. NO. DESCRIPTION	_	 _	B-28-	87
3 BRIDGE OFFICE REVIEW 2 BRIDGE OFFICE REVIEW	JC	 JCC	0-30-	87

AR	DETAILS
	DE IMEO

a (E)	488	#5	27'-0"	
a,(E)	292	#6	4'-0"	
02(E)	8	#5	15'-9"	
a3(E)	24	#5	27'-0"	
b (E)	162	#5	25'-8"	
b (E)	58	#6	32'-6"	
b2(E)	16	#5	6'-9"	
b3(E)	24	#5	21'-0"	
b4(E)	16	#8	6'-9"	
b5(E)	24	#8	21'-11"	
be(E)	160	#5	31'-1"	
d (E)	294	#4	5'-4"	
d, (E)	320	#5	3'-11"	
e (E)	48	#4	6'-9"	
e <sub>1</sub> (E)	24	#4	20'-1"	
e2(E)	24	#4	19'-8"	
e3(E)	24	#4	19'-3"	
CLASS X CO	NCRETE SUP	ERSTRUCTU	URES CU. YD.	138.6
REINFORCEM	ENT BARS (E	POXY COAT	ED) LB.	34,520
FLOOR DRAM	IS		EACH	6
PREFORMED			LIN. FT.	
PREFORMED	JOINT SEAL	(4,*)	LIN. FT.	30

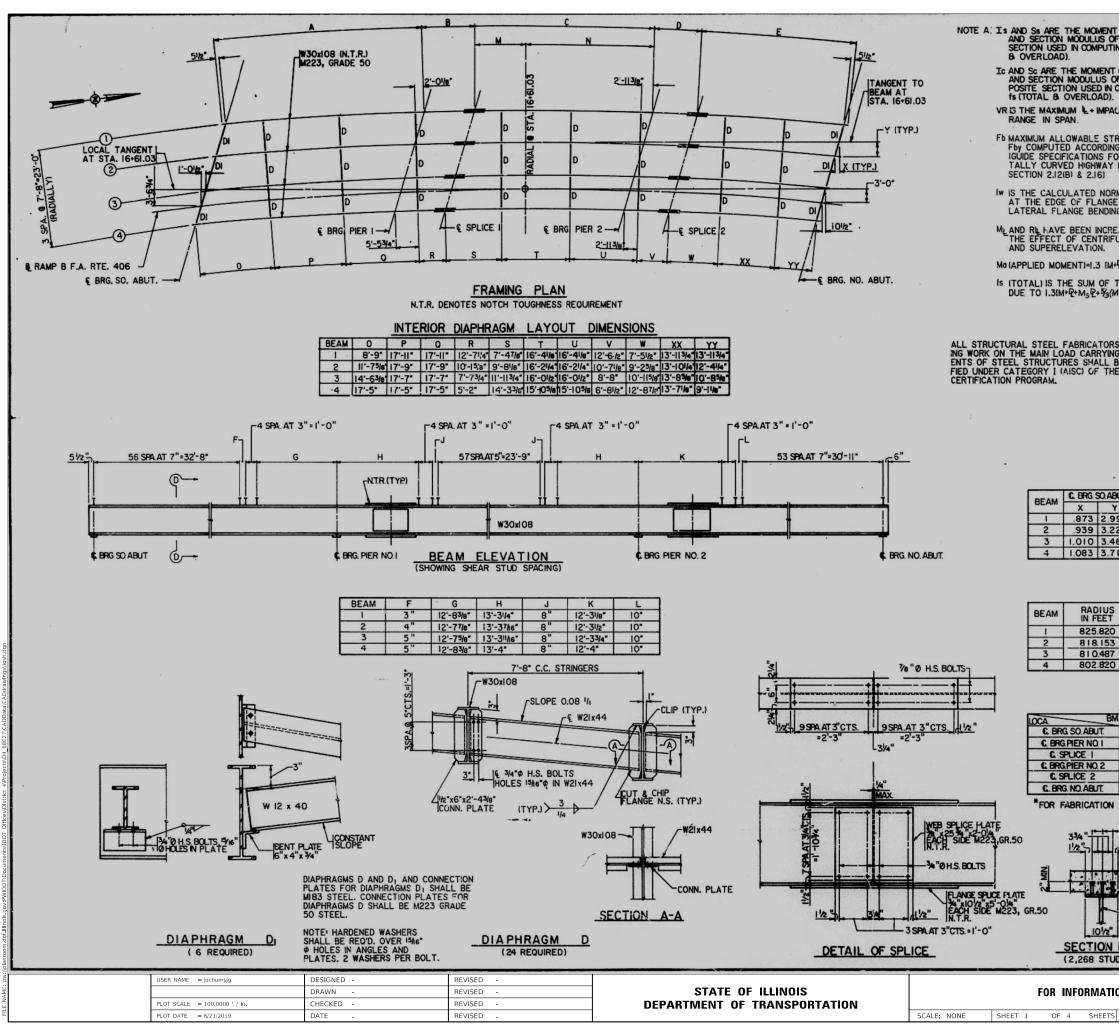
BILL OF MATERIAL

BAR NO. SIZE LENGTH SHAPE

	3'-2"
	2'-2"
)	BAR d(E)
_	

3'-2"	

POUTE NO. SEC. SHEETS SHEET NO. COUNTY 406 90-(106X)-VB-1 TAZEWELL 189 98 ALINOIS PROJECT SHEET 5 OF 14



	P			P.A. HOUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
OF NERTIA THE STEEL				406	90-006X0- VB-1	TAZEWELL	189	100
G fs(TOTAL				ILLINOIS	PROJECT			
OF INERTIA					SHEET	7 OF 14		
THE COM -				· · ·				_
OMPUTING		INTE	RIOR BE	AM MON	MENT TA	BLE		]
T SHEAR			0.4 5		PIER		SPAN 2	
- Sherry	Is	(in4)	447		4470		470	
A	Ic	(in <sup>4</sup> )	13,0				1,006	
ESS Fbu OR	Ss	(in <sup>3</sup> )	29		299		299	-
TO AASHTC	Sc	(in <sup>3</sup> )	45	8		-	458	-
RIDGES	Q.	114.65			10.41			-
		(K/) ('K)	0.86		1.241		868	-
AL STRESS	MQ SQ		0.37		283	The same state of the same sta	97	-
DUE TO	MsQ	(K/I) ('K)	67	the subscription of the su			373	1
G (FACTORED)	ML	('K) :	36		105		66 383	1
ASED DUE TO		('K)			47		97	
JGAL FORCE	43 (M L		9		353		800	1
SAL I SHOL	Ma	('K)	126		827		252	1
2+M-2+50(M++1)]			1 120		021		252	
THE TOWNER DI	FE D NON	-COMP (ksi)	5.3		11.4		3.9	1
HE STRESSES		MP) (ks.i.)					1.7	1
±+I)].	fs 5/3(4		20.3		14.2		21,0	1
1.1	lw	(k.s.i.)	3.4		2.27		3.44	1
	fs (TOTA		35		33.3		34.6	1
	VR	(K)	54				57.0	1
PERFORM-	Fb	(k.s.i.)	50		36.25		50	1
E COMPON- E CERTI- QUALITY	FOR NON	ENCLATURE	•				_	
		INTI	ERIOR BE	AM REA		ABLE	_	
				ABU	-	PIER	4	
		RQ	(K)	22.		67.9	1	1
	1	RL	(K)	42.0		50.2	_	
			(K)	11.	3	13.0		
		R TOTAL	(K)	76.		131.1		

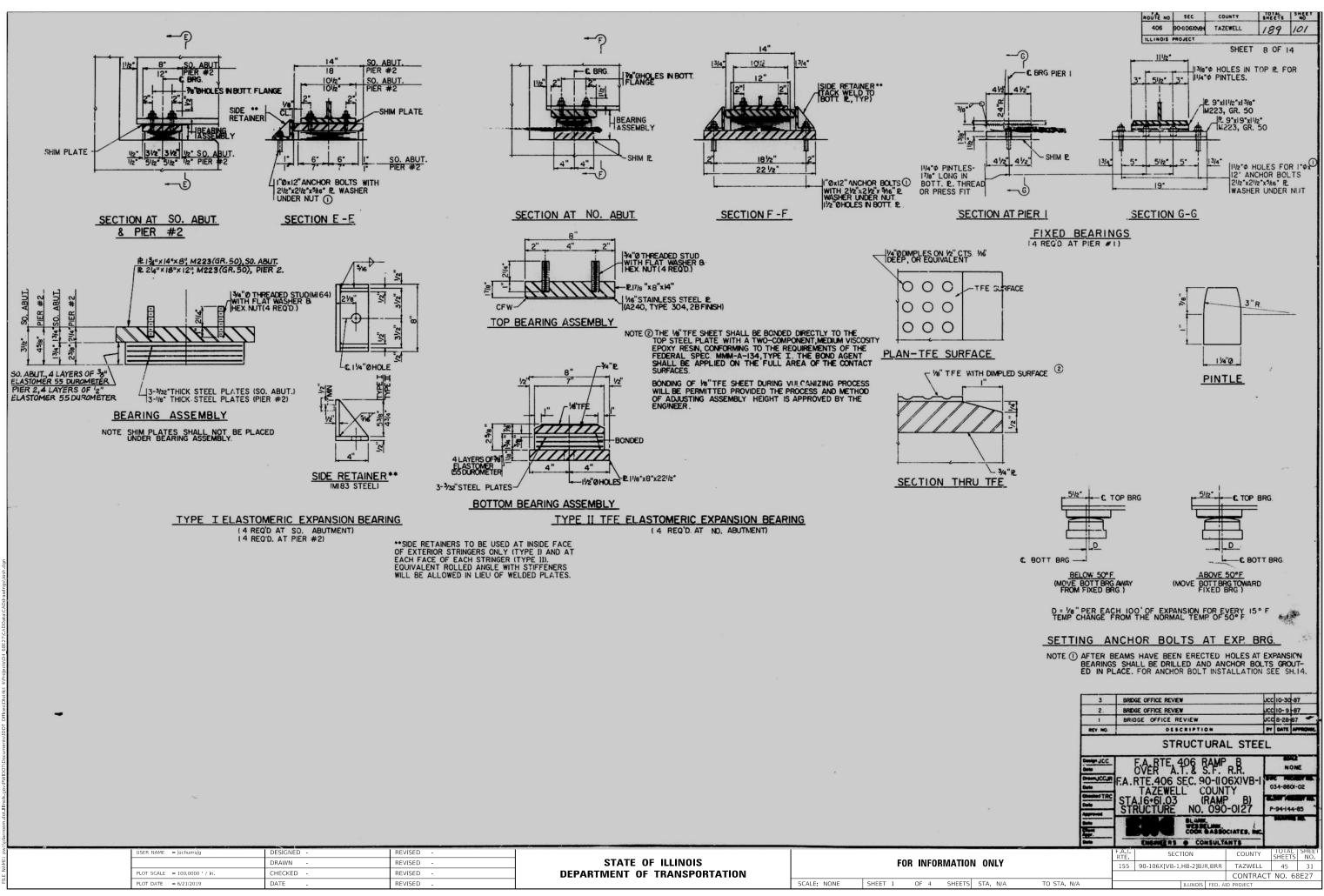
ABUT.	T. C. BRG.PIER NO.I		C SPL	ICE I	C BRG.P	ER NO2	C SPL	ICE 2	C. BRG.	NO.ABUT.
Y	X	Y	x	Y	X	Y	x	Y	X	Y
992	.099	.340	.030	.104	.158	.542	.275	.944	.991	3.397
221	.120	.412	.042	.144	.137	.469	.248	.850	.942	3.231
462	.144	.494	.056	.191	.118	.403	.222	.761	.894	3.067
715	.169	.579	.071	.2 43	.098	.337	.198	.677	.848	2 907

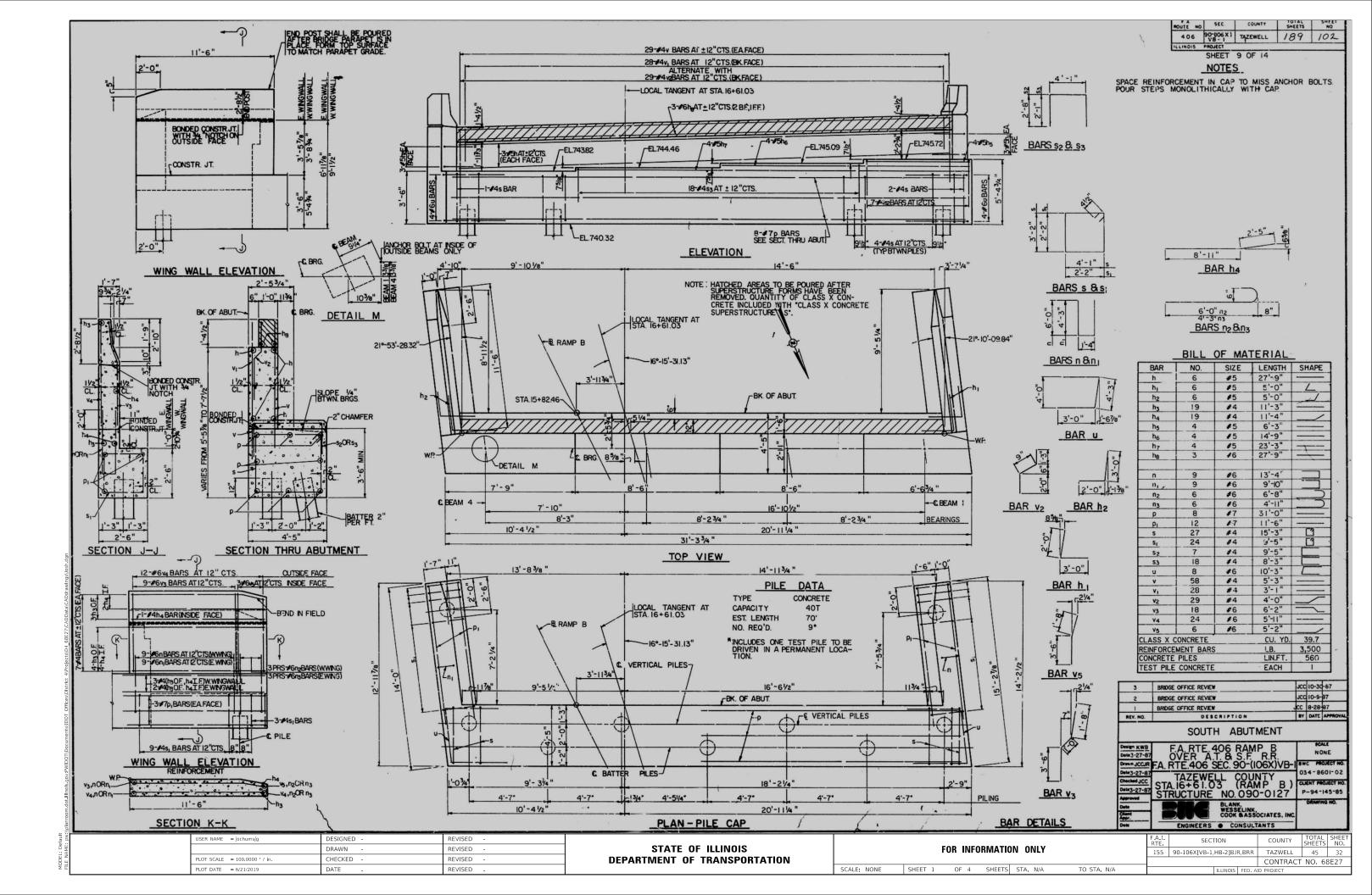
JS	LOCATION		DEAL	BE	AM DIME	INSIONS	& TOT	AL LEN	GTH
Т	M	N	BEAM	A	B	C	D	E	TOTAL
20	13'-11/2"	29'-107/8"	1	47'-03/4	10'-71/8"	43-03/8"	9'-7"	35'-105%	46-17/8"
53	15'-41/4"	27'-844"	2	47'-13/8"	10'-73/8"	43'-012"	9'-73/8"	35'-101/2"	146'-31/e"
37	17'-71/8"	25'-53/4"	3	47'-21/8"	10'-75/8"	43'-07/8"	9'-75/8"	35'-1012	146-43/4
20	19'-91/4"	23'-37/8"	4	47'-27/8"	10'-77/8"	43'-11/8"	9'-77/8"	35'-1012	146'-61/4"

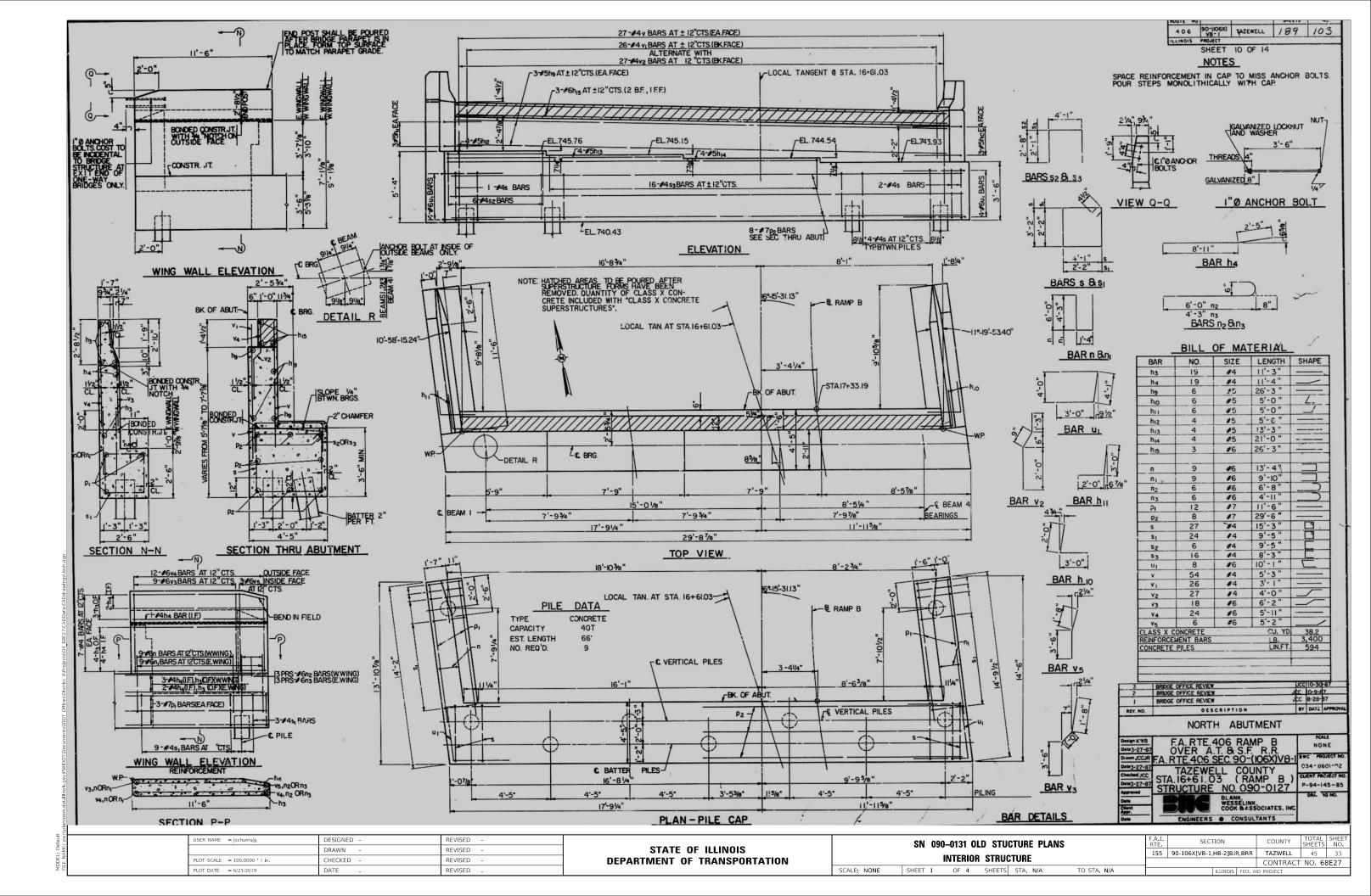
## TOP OF BEAM ELEVATIONS

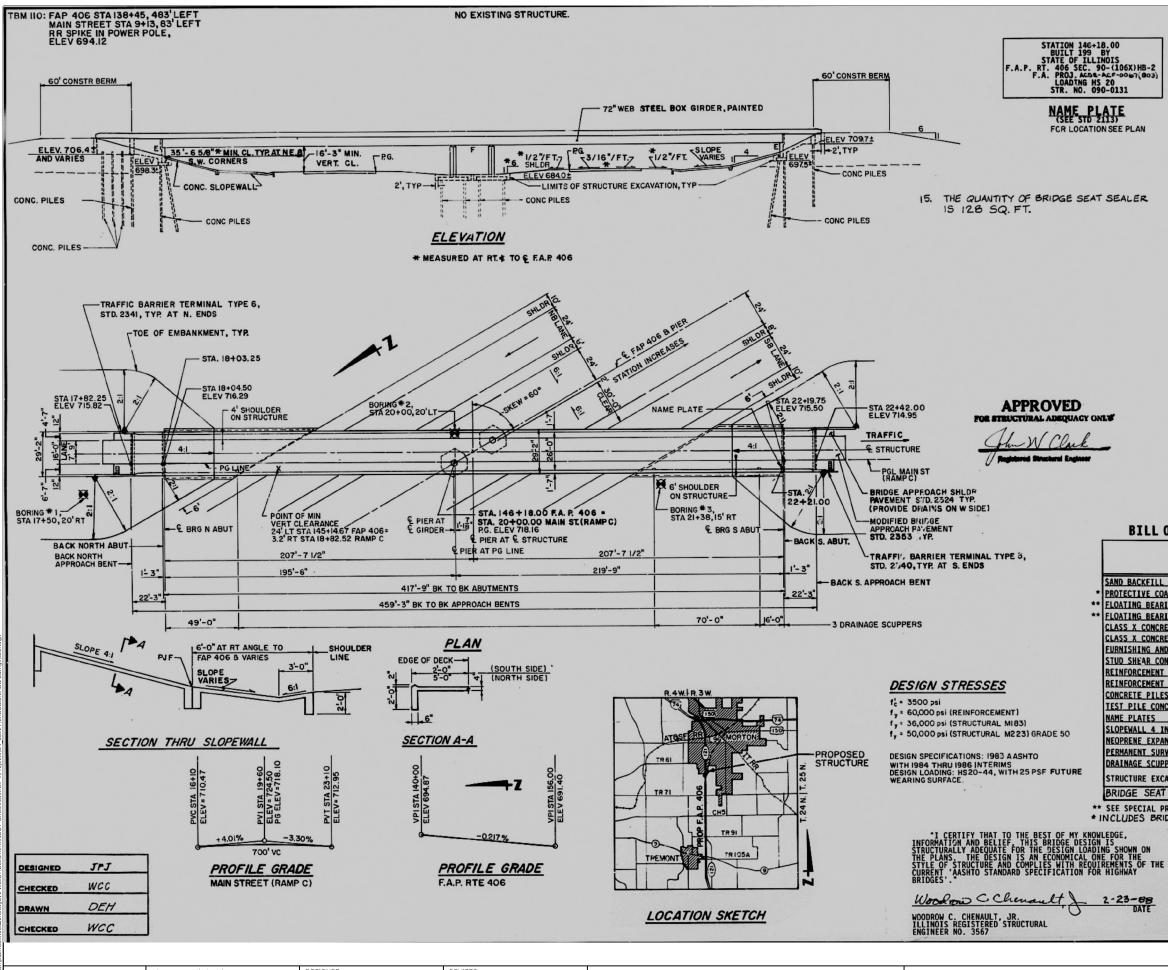
BMI	1	2	3	4
	748.50	747.87	747.24	747.60
	748.62	748.00	747.38	746.76
	748.63	748.01	747.39	746.77
	748.70	748.09	747.47	746.86
	748.70	748.09	747.47	746.86
	748.72	748.11	747.50	746.89

1	748.72	748 11	7	47.50	746	.89			
N	ONLY		3	BRIDGE	OFFICE REVIEW			C 10-30	
			2	BRIDGE	OFFICE REVIEW		and the second sec	C 10-9-	and the second se
1.6	14 OURANULAR OF	SOLID	1	BRIDGE	OFFICE REVIEW		Jo	8-28	87
	FILLAR OF	VD WELDED	REY. NO.	S. S. S. S.	DESC	RIPTION		DATE	APPROVAL
-	<u>//2"</u>	[		S	TRUCTUR	AL S	TEEL		
				F	A RTE 4	06 RAM	RR	NO	NE
Ŀ	4 -10		- MADCHE	FA.R	TE.406 SE	EC. 90-(K	XXVB-II	1000	There are
		-	3-27-87		TAZEWEL	L COUN	ITY I		501-02
T	-W30 x 108		3-27-87	STA.	16+61.03	(RAM	PB)	A 1215 12 17 17 18	SURET NO.
				STR	UCTURE	NO. 090	-0127	P-94-1	
	D-D Is reo'd.)				ENGINEERS	BLANK, WESSELINK, COOK BASSO CONSULT	CIATES, INC.	GLUNS	in HD.
-				F.A.I. RTE	SECT	ION	COUNTY	TOT/ SHEE	
110	N ONLY			155	90-106X[VB-1,	HB-2]BJR,BRR	TAZWELL	45	30
							CONTRAC	T NO.	68E27
ΓS	STA. N/A	TO STA. N/A				ILLINOIS FED. /	AID PROJECT		









USER NAME = jochumsjg	DESIGNED -	REVISED -			F.A.I. RTF	SECTION	COUNTY	TOTAL SHEET SHEETS NO.		
	DRAWN -	REVISED -	STATE OF ILLINOIS	FOR INFORMATION ONLY			155 90-106X	[VB-1,HB-2]BJR,BRR	TAZWELL	45 34
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRACT	NO. 68E27
PLOT DATE = 6/21/2019	DATE -	REVISED -		SCALE: NONE	SHEET 1 OF 4 SHEETS STA. N/A	TO STA. N/A		ILLINOIS FED. AII	D PROJECT	

	ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.	SHEET NO. 1
	F.A.P. 406	90-(106X)HB-2	TAZEWELL	237	78	SHEETS 20
18.00 BY	F.H.W.A. RI	EG. 4	ILLINOIS	PROJECT	*	*F406 ( )
INOIS 90-(106X)HB-2 L-ACF-0067(803) IS 20 90-0131	1. SEE PROPOSA		AL NOT	ES:		
	2. FASTENERS S HOLES 15/10	HALL BE HIGH	STRENGTH I	BOLTS. NOTED.	BOLTS	7/8" Ø, OPEN
ON SEE PLAN	3. CALCULATED CALCULATED	WEIGHT OF STR	UCTURAL S	TEEL (M1 TEEL (M2	83) = 23) =	276,857 LBS. 491,797 LBS.
	4. THE ZINC-SI SHOP AND FI OTHERWISE	ELD PAINTING	WYL PAINT OF STRUCT	SYSTEM URAL STE	SHALL EL EXC	BE USED FOR EPT WHERE
T SEALER	5. FIELD WELD PERMITTED OTHER AREAS ENGINEER.	ING OF CONSTRU TO THE BOTTOM S WILL BE PERM	CTION ACC FLANGE OF ITTED ONL	ESSORIES GIRDERS Y WHEN A	WILL FIE PPROVE	NOT BE LD WELDING IN D BY THE
	6. ANCHOR BOLT SUPPORTS.					
	7. THE MAIN LC STRESS SHA NOTCH TOUGI FLANGES; WI GIRDERS:	DAD CARRYING M LL CONFORM TO HNESS ZONE 2. EBS AND ALL SP	EMBER COM THE SUPPL THESE CO LICE PLAT	PONENTS EMENTAL MPONENTS E MATERI	SUBJEC REQUIE ARE 1 IAL OF	T TO TENSILE REMENTS FOR HE TENSION THE STEEL
	8. REINFORCEM AASHTO M-3	ENT BARS SHALL 1, M-42, OR M-	CONFORM 53 GRADE	TO THE F 60.	REQUIR	MENTS OF
	9. SLOPE WALL 6" - W4.0	SHALL BE REIN W4.0, WEIGHI	FORCED WI	TH WELDE	ED WIRE	FABRIC, 6" X FT.
	DESIGNATED ADJUSTMENT SHIMMING TI DIMENSIONS	CLEVATIONS UT	THIN A TO EITHER B WO 1/8" A BEARING	LERANCE Y GRINDI DJUSTINO PLATE, S	OF 1/8 ING THE S SHIMS SHALL	SURFACE OR BY OF THE BE PROVIDED FOR
	THROUGH TH	ILES AT ABUTME E EMBANKMENT I NDARD SPECIFIC	N ACCORDA	BE DRIV	ARTIC	HOLES PRECORED CLE 513.09(c)
NL <b>V</b>	12. THE CONTRAC PERMANENT I ENGINEER BI	CTOR SHALL DRI LOCATION AT PI EFORE ORDERING	ER AND EA	. AUUI.	AS UIN	LECIED BY THE
-	13. THE EMBANKI EMBANKMENT OF THE ABUI DELAYED IN	IENT CONFIGURA THAT MUST BE IMENTS. PILE ACCORDANCE WI	TION SHOW CONSTRUCT DRIVING A TH THE SP	N SHALL ED PRIOF T THE AE ECIAL PR	BE THE TO THE BUTMENT ROVISIO	MINIMUM E CONSTRUCTION S SHALL BE DNS.
	14. ALL STRUCTU		RICATORS	PERFORMI	ING WOR	K ON THE

MAIN LOAD CARRYING COMPONENTS OF STEEL STRUCTURES SHALL BE CERTIFIED UNDER CATEGORY III (AISC) OF THE QUALITY CERTIFICATION PROGRAM.

		(		
ITEM	UNIT	SUB- Struct	SUPER- Struct	TOTAL
SAND BACKFILL	CU. YD.	184		184
PROTECTIVE COAT	SQ. YD.		1721	1721
FLOATING BEARING ASSEMBLY, FIXED	EACH		2	2
FLOATING BEARING ASSEMBLY, GUIDED EXPANSION	EACH		8	8
CLASS X CONCRETE	CU. YD.	269.5		269.5
CLASS X CONCRETE SUPERSTRUCTURE	CU. YD.		466.2	466.2
FURNISHING AND ERECTING STRUCTURAL STEEL	LUMP SUM		.7	7
STUD SHEAR CONNECTORS	EACH	160	2448	2608
REINFORCEMENT BARS	POUND	41.910	6980	48.890
REINFORCEMENT BARS (EPOXY COATED)	POUND		100.640	100.640
CONCRETE PILES	LIN. FT.	4718		4718
TEST PILE CONCRETE	EACH	3		3.
NAME PLATES	EACH		1	1
SLOPEWALL 4 INCH	SO. YD.	617		617
NEOPRENE EXPANSION JOINT, 4 INCH	LIN. FT.		56	56
PERMANENT SURVEY MARKER, TYPE I	EACH		1	1
DRAINAGE SCUPPERS	EACH		3	3
STRUCTURE EXCAVATION	CU. YD.	521		521
BRIDGE SEAT SEALER	LUMP SUM	1		1

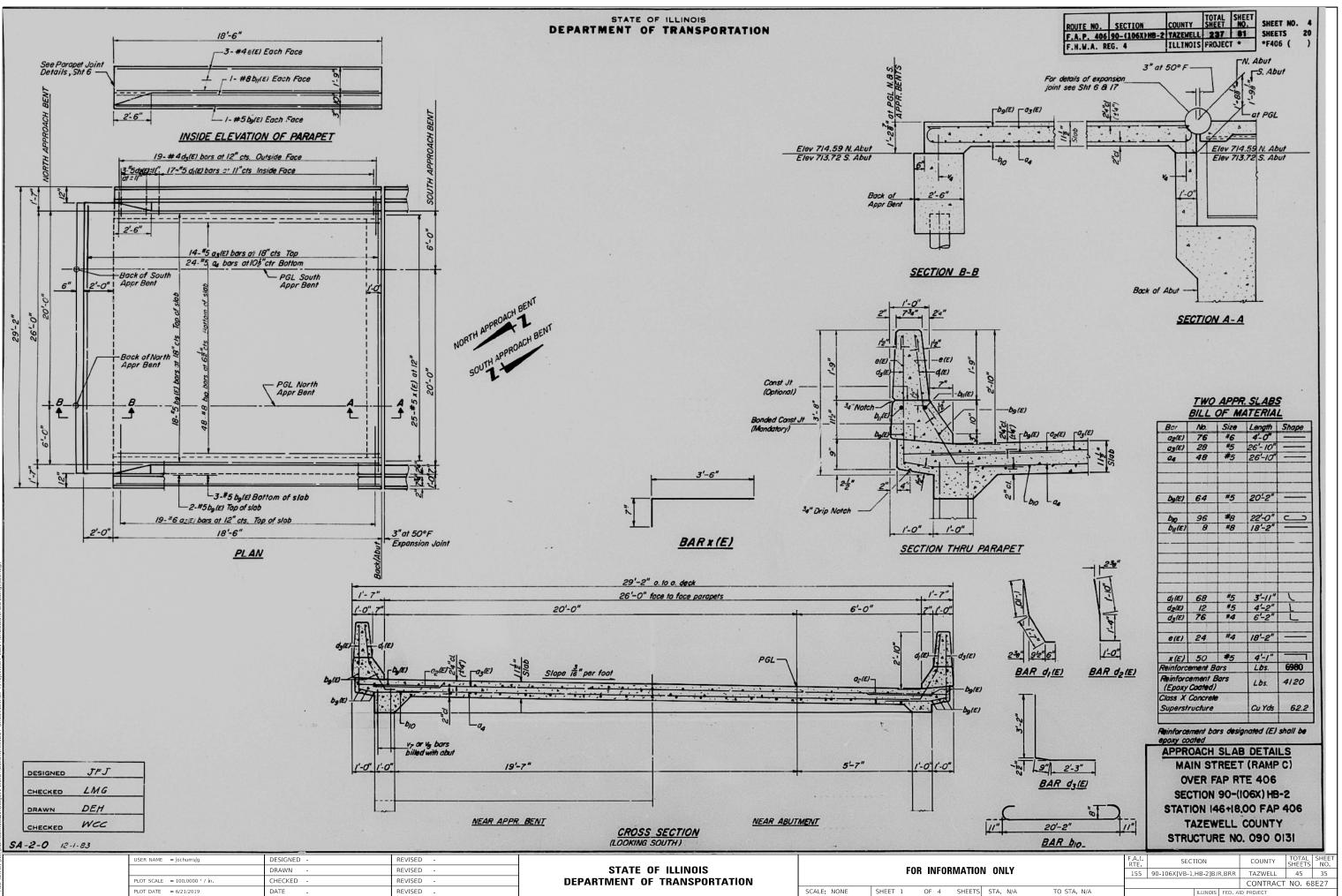
**BILL OF MATERIAL** 

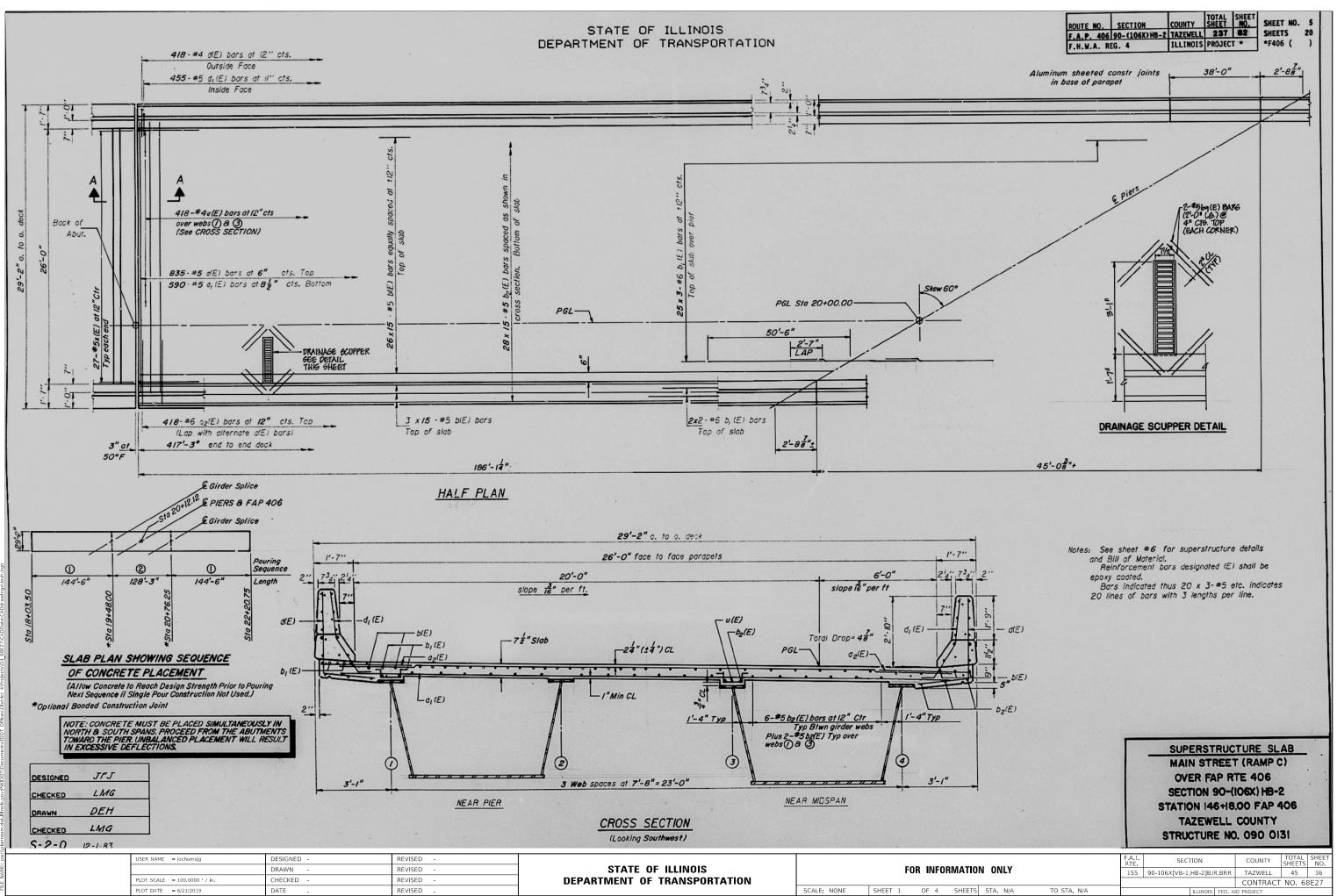
\*\* SEE SPECIAL PROVISIONS \* INCLUDES BRIDGE DECK SURFACE

2-23-88

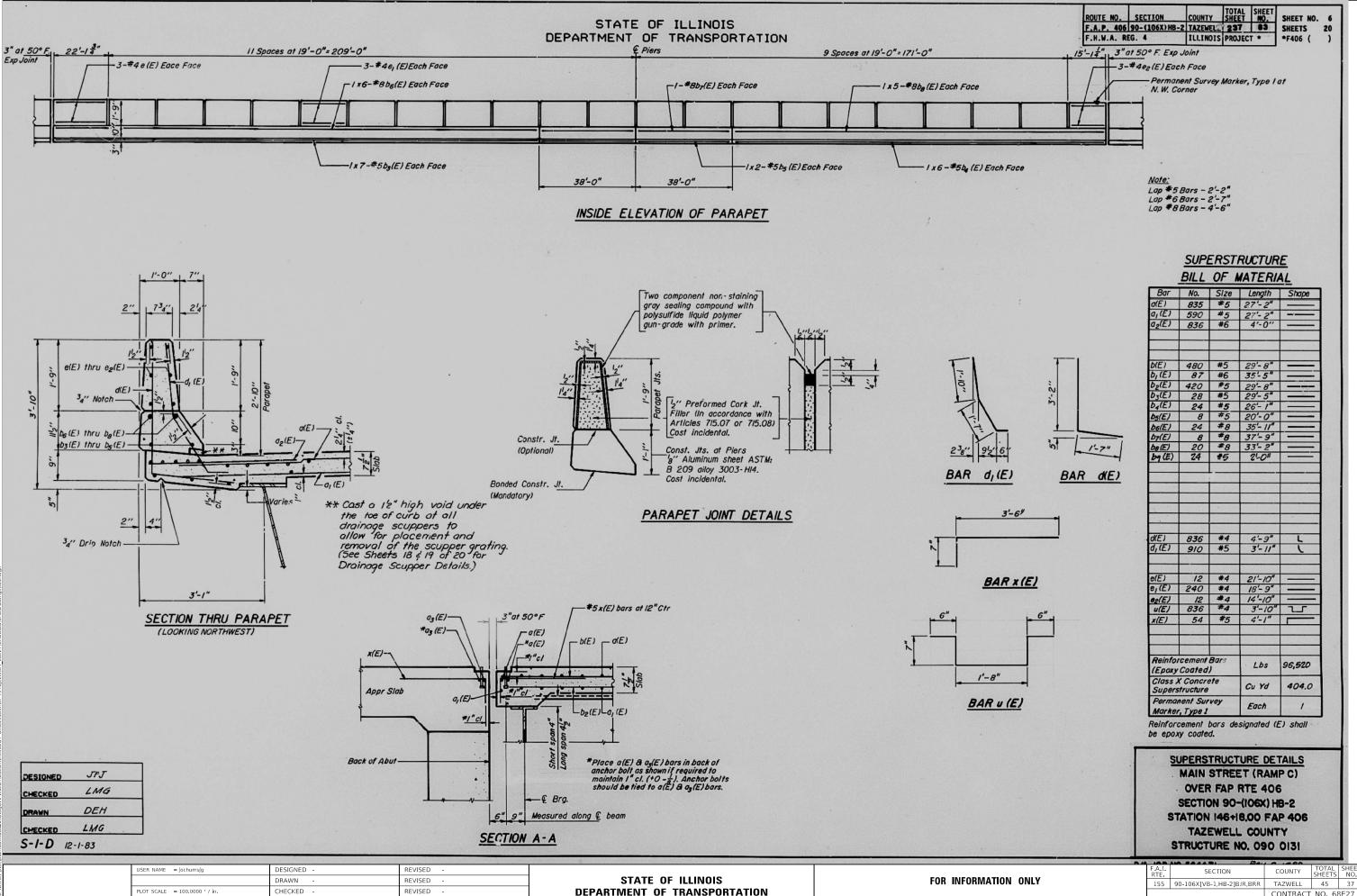


GENERAL PLAN AND ELEVATION MAIN STREET (RAMP C) OVER FAP RTE 406 SECTION 90-(106X) HB-2 STATION 146+18.00 FAP 406 TAZEWELL COUNTY STRUCTURE NO. 090 0131





ODEL: Defa LE NAME: p



REVISED

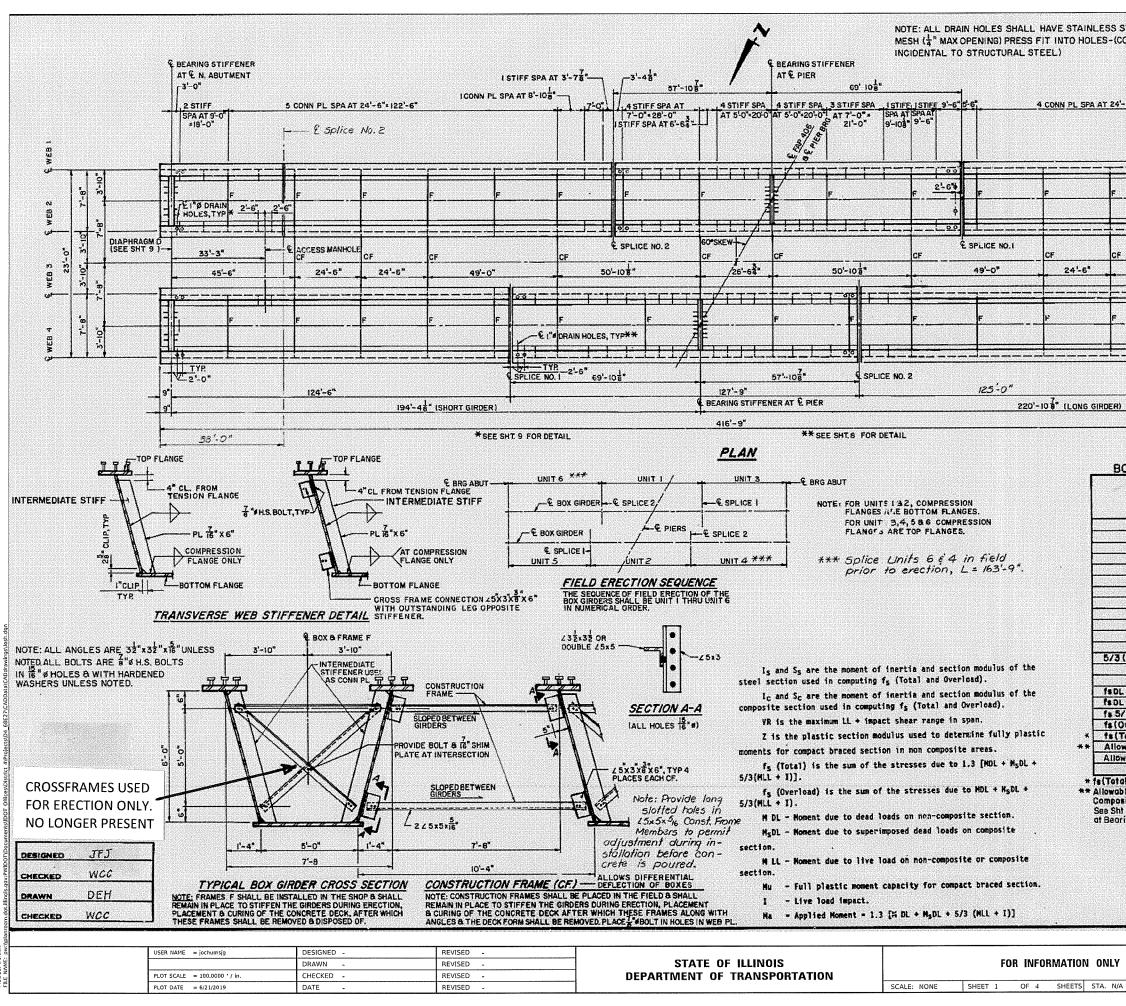
DATE

PLOT DATE = 6/21/2019

**DEPARTMENT OF TRANSPORTATION** 

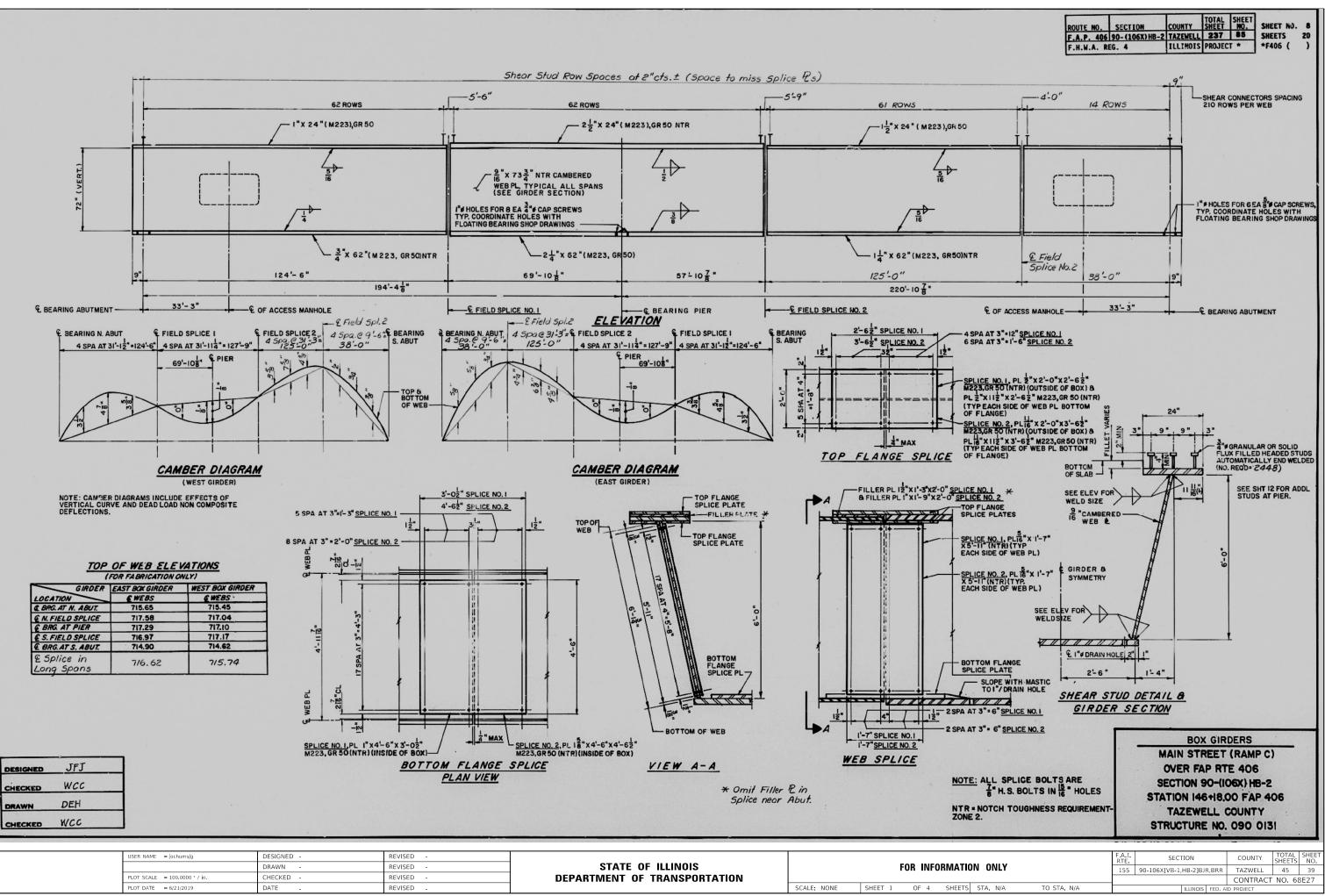
SCALE: NONE SHEET 1 OF 4 SHEETS

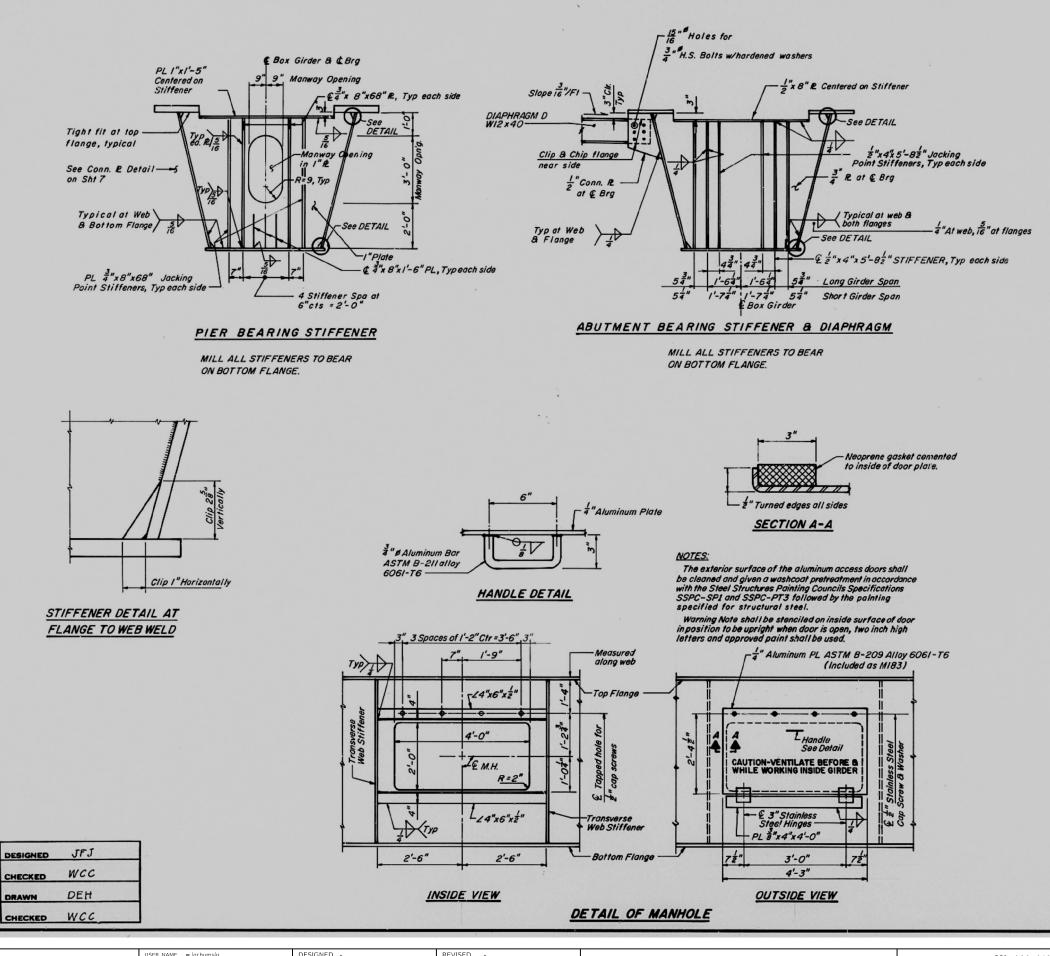
		Start Lange 198		S.C. BIEL	en Sandin			
AN INTERCOMPANY STATE	and a state of the second s	14 100			De	0 1000	Stat stat	
TION ONLY		F.A.I. RTE	SEC	FION		COUNTY	TOTAL SHEETS	SHEET NO.
		155	90-106X[VB-1,HB-2]BJR,BRR			TAZWELL	45	37
						CONTRACT	NO. 68	3E27
S STA. N/A	TO STA. N/A			ILLINOIS	FED. AI	D PROJECT		



G-ICOST F.A.P.	), SECTION 106 90-(106X)HB , REG, 4		ET NO, SHEET NO 87 84 SHEETS	). 7 20 )
24'-6" * 98 '- 0"	LI CONN PL : AT 21'-0"	E BEARING ST AT E S. ABU		
			AT TOP OF WEB, TYP	
	ACCESS MANHOLE		SM D (SEE SHT 9 )	
	45'-6*		PANGLE SPACING	
	Splice Na.2		MAGE OF E. GIRDER XCEPT FOR DRAIN IOLES	
	38:0*			
BOX GIRDER MOME			R DESIGN)	
GENERAL Is (in.4) Ic (in.4) (n=9) Ss (in.3) Sc (in.3) (N=9) Sc (in.3) (N=27)	SPAN		SPAN	
Is (in.4) Ic (in.4) (n=9) Ss (in.3) Sc (in.3) (N=9) Sc (in.3) (N=27) Z (in.3) (N=27) Z (in.3) (N=27) DL (K/ft.) MDL (ft.K) MDL (ft.K) ML (ft.K) ML (ft.K) ML (ft.K)	SPAN BRACED-CO 161,296 296,757 4349 5347 4919 	MPOSITE NON 393,266 422,583 10,870 11,091 11,098  2699 15,374 0,735 4592 4928 744	SPAN           -COMPACT           236,898           401,380           6508           7601           7089              2287           7561           0,735           2464           4179           604	
Is (in.4) Ic (in.4) (n=9) Ss (in.3) Sc (in.3) (N=9) Sc (in.3) (N=9) Sc (in.3) (N=27) Z (in.3) (N/4) DL (K/ft.) MDL (ft.K) MDL (ft.K) MLL (ft.K) MLL (ft.K) MLL (ft.K) MLL (ft.K) MLL (ft.K) Mu (ft.K) Mu (ft.K) N/A SDL (non-comp)(k.s.l.) sc/3(LL+1)(ft.s.l.) sl(overload)(k.s.l.) sl(overload)(k.s.l.) sl(overload)(k.s.l.) sl(overload)(k.s.l.) sl(overload)(k.s.l.)	SPAN BRACED-CO 161,296 296,757 4389 5347 4919 	Z FIER         S           393,266         422,583           422,583         10,870           11,091         11,091           11,091         0,735           4592         4928           744         9453           9453         38,245            17.0           5.0         102           322         419           49.4	SPAN           -COMPACT           236,898           401,380           6508           7661           7089	
Is (in.4) Ic (in.4) (n=9) Ss (in.3) Sc (in.3) (N=9) Sc (in.3) (N=9) Z (in.3) (N=27) Z (in.3) N/A DL (K/ft.) MDL (ft.K) MDL (ft.K) MLL (ft.K) MLL (ft.K) MIDP (ft.K) MIDP (ft.K) MIDP (ft.K) MIDP (ft.K) MIDP (ft.K) MUL (ft.K) MUL (ft.K) MUL (ft.K) MIDP (ft.K) SDL (comp)(k.s.l.) sC(overload)(k.s.l.) s(Overload)(k.s.l.)	SPAN BRACED-CO 161,296 296,757 4349 5347 4919 	MPOSITE NON 393,266 422,583 10,870 11,091 11,093 4592 4928 744 9453 38,245  170 50 10,2 322 419 49,4 47,5  18,573(LL+1),091 10,20 1	SPAN           -COMPACT           236,898           401,380           6508           7601           7089	

TO STA. N/A ILLINOIS FED. AID PROJECT

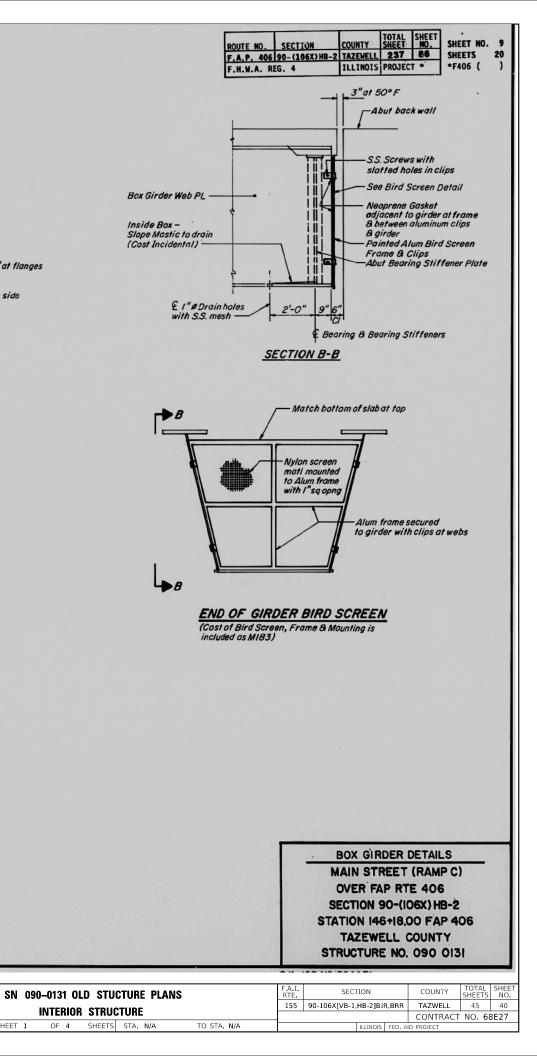


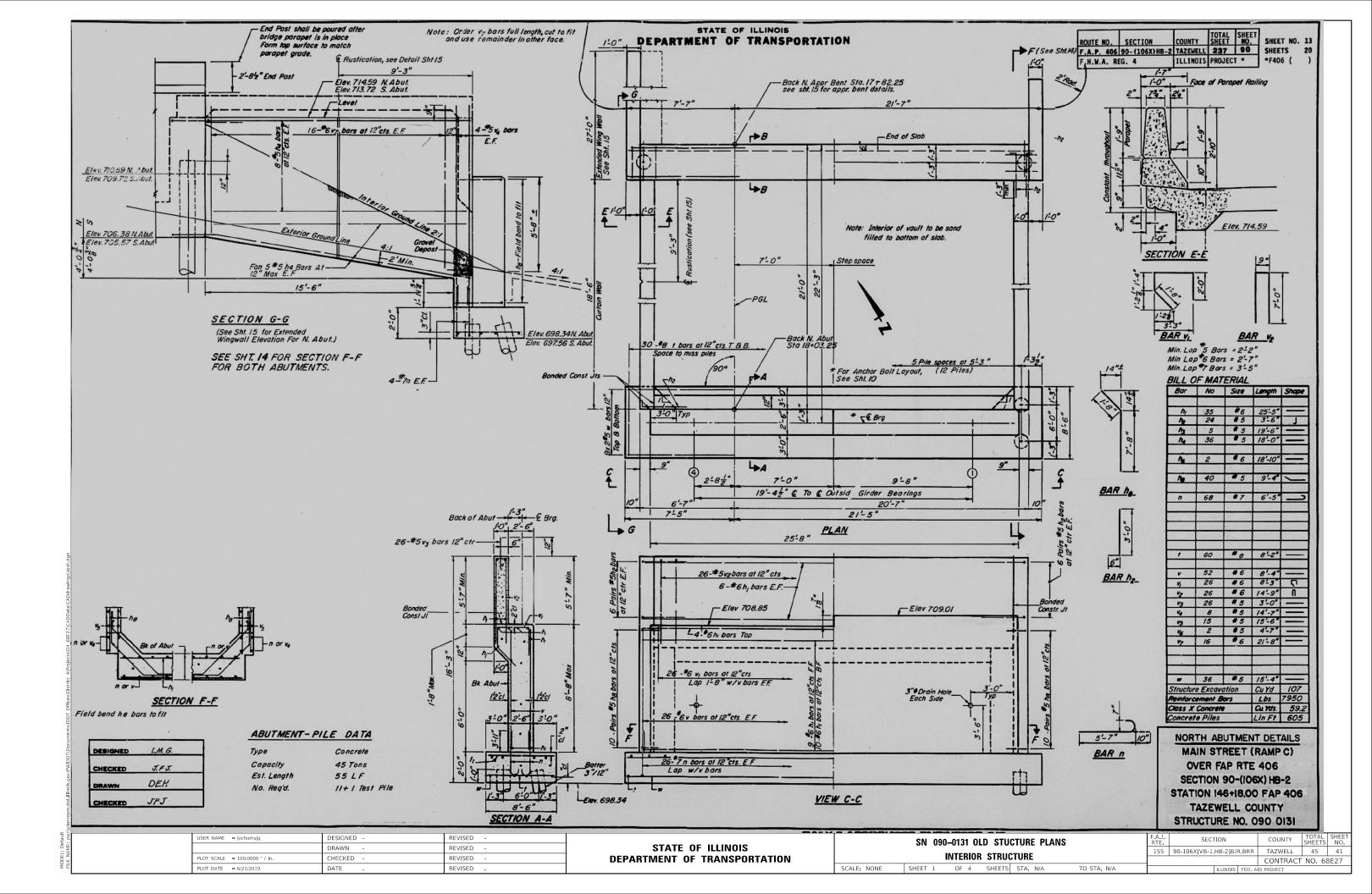


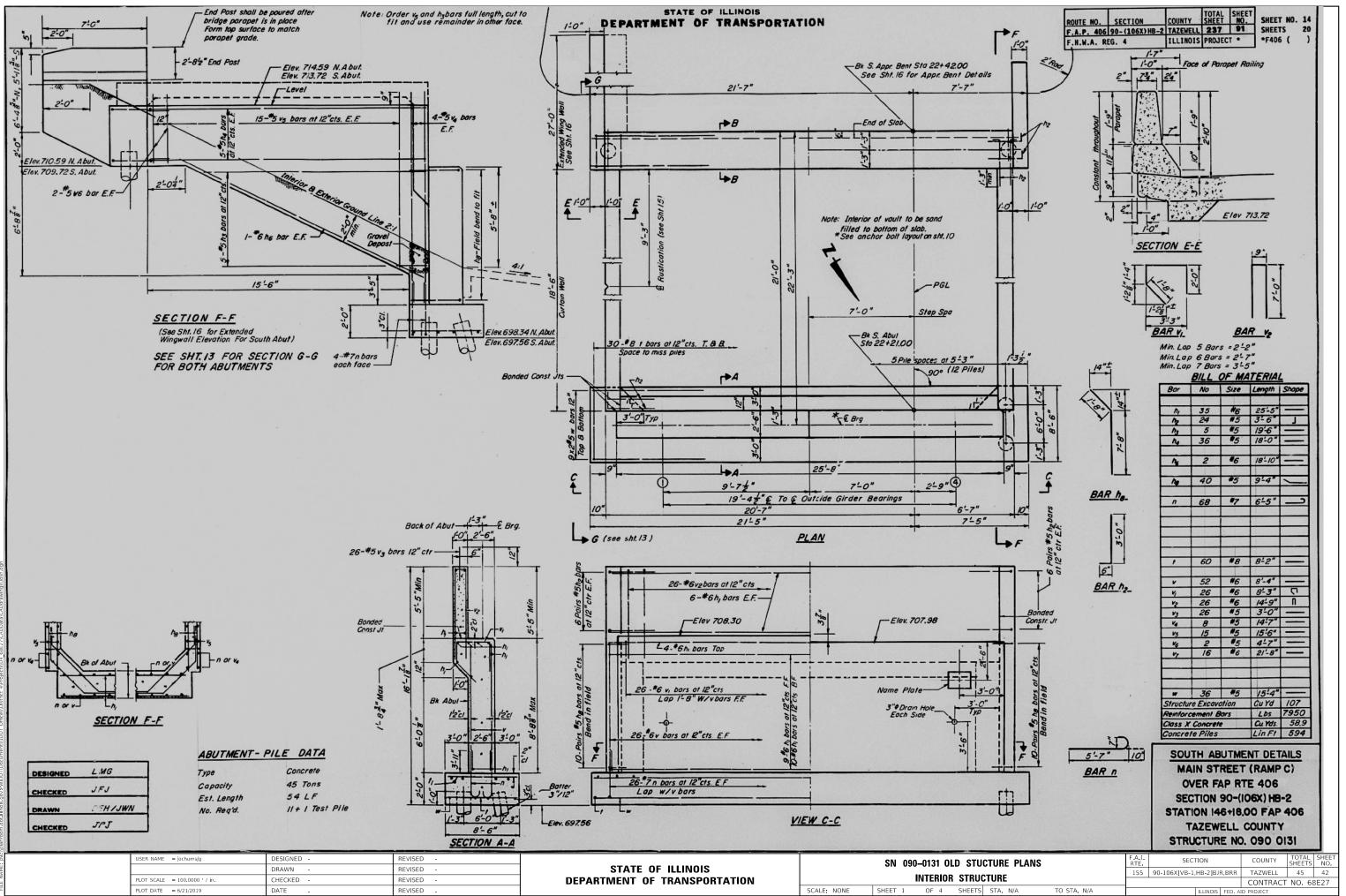
 USER NAME
 JUSER NAME
 JUSER NAME
 JUSER NAME
 DESIGNED
 REVISED
 STATE OF ILLINOIS
 DIALUNCIAN
 REVISED
 INTERIOR
 STRUCTURE
 INTERIOR
 INTERIOR
 INTERIOR
 STRUCTURE

 PLOT SCALE
 = 00,0000 '/ in.
 CHECKED
 REVISED
 DEPARTMENT OF TRANSPORTATION
 SCALE: NONE
 SHEET 1
 OF 4
 SHEETS
 STA. N/A

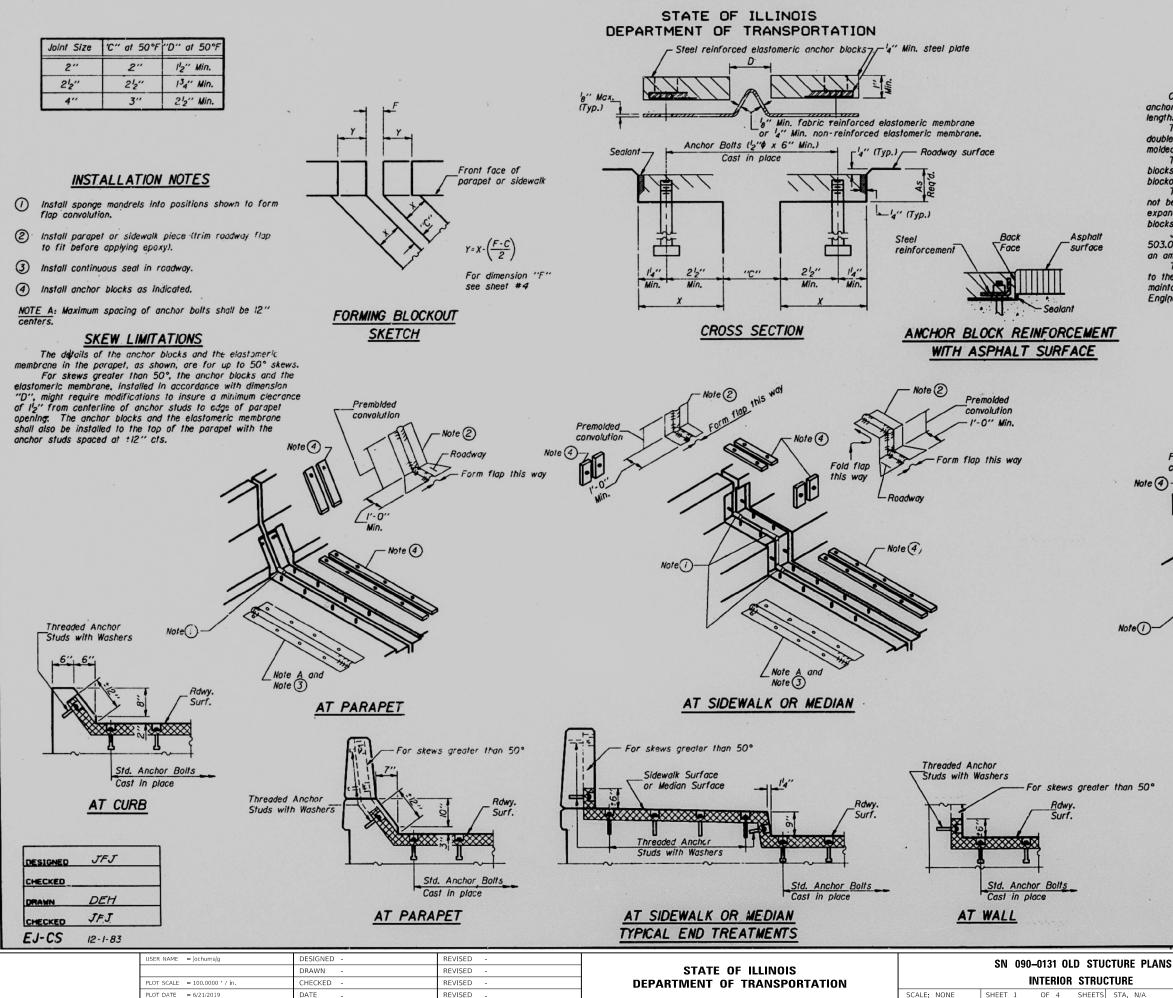
ODEL: Def







IDEL: De



ROUTE NO.					SHEET NO.	17
F.A.P. 406	90- (106X) HB-2	TAZEWELL	237	94	SHEETS	20
			PROJECT *		*F406 (	)

## GENERAL NOTES

Continuous Seal Neoprene Expansion Joint shall consist of molded anchor blocks of elastomer and steel, field assembled over continuous lengths of elastomeric membrane. See Special Provisions.

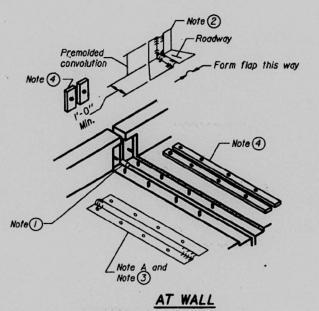
The elastomeric membrane shall be premolded with a single or a double upward convolution that will have a "memory" to return to its molded position upon joint closure.

The steel reinforcement must extend up the back face of anchor blocks when asphalt surfaces are used but is optional in concrete blockout.

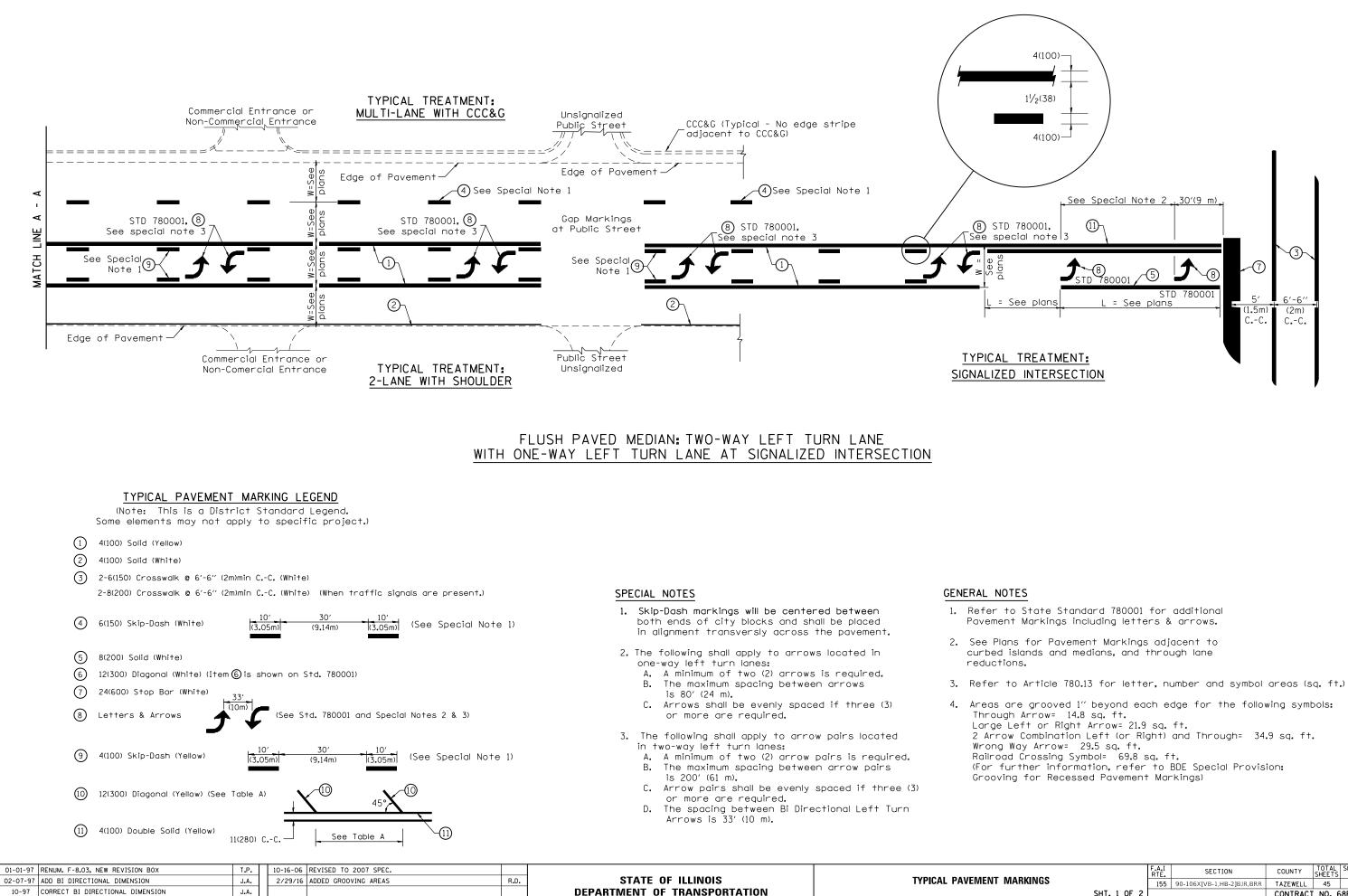
The convolution length shall be such that the extended length will not be greater than the manufactured length when the joint is fully expanded in its design range and will not protrude above the anchor blocks when the joint is fully compressed. Joint openings shall be adjusted in accordance with Article

503,07(c) of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.

The parapet and sidewalk flaps may be furnished factory vulcanized to the roadway membrane provided the centerline of the convolution is maintained and the process and method meet the approval of the Engineer.



CONTINUOUS SEAL TYPE NEOPRENE EXPANSION JOINTS For 2", 2'z" and 4" Movement MAIN STREET (RAMP C) OVER FAP RTE 406 SECTION 90-(106X) HB-2 STATION 146+18.00 FAP 406 TAZEWELL COUNTY STRUCTURE NO. 090 0131 SECTION COUNTY 155 90-106X[VB-1,HB-2]BJR,BRR TAZWELL 45 43 CONTRACT NO. 68E27 TO STA. N/A

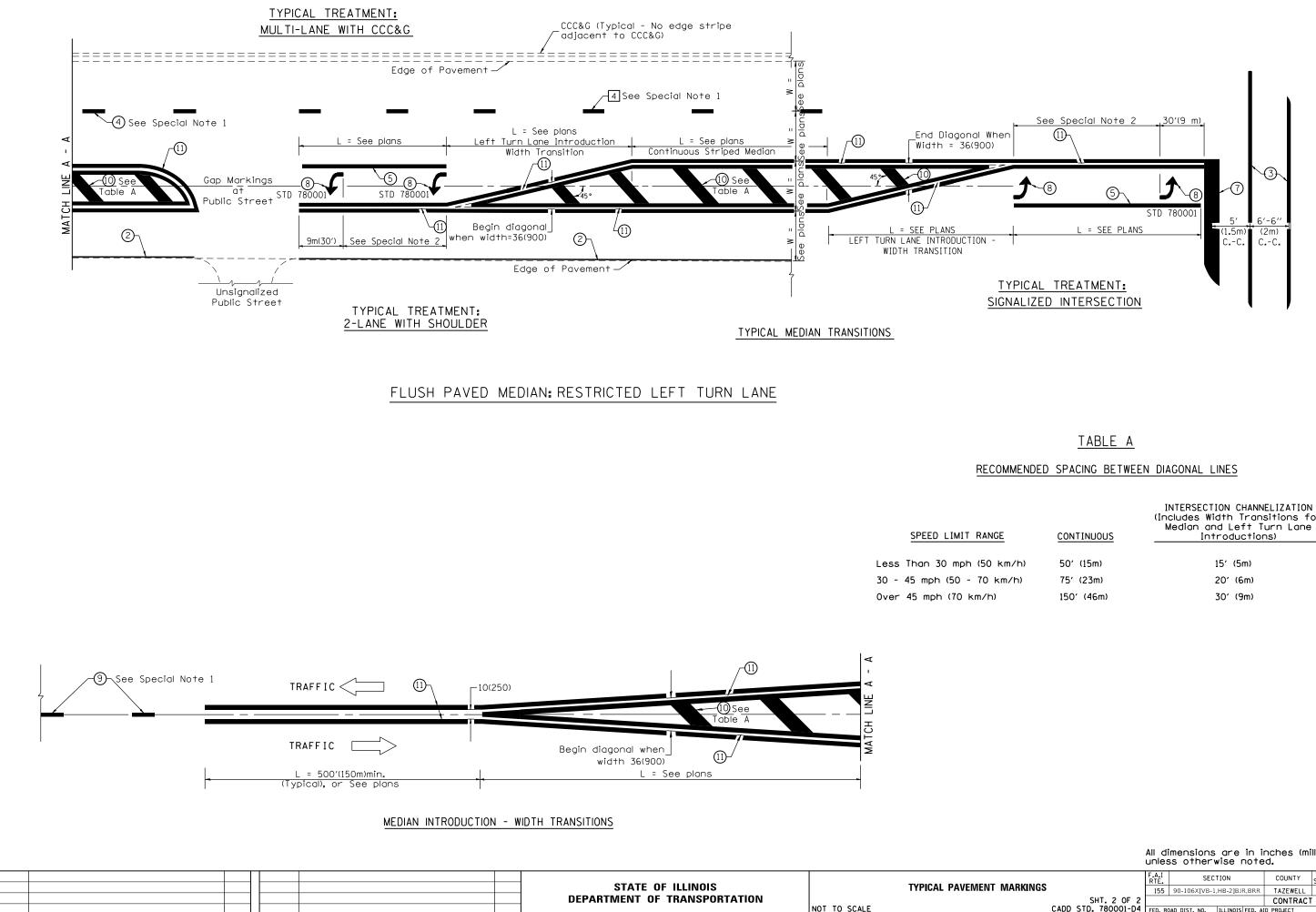


08-02 ADD CROSSWALK DMNS. WITH T.S.

M.A.

NOT TO SCALE

IT MARKINGS		F.A.I RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		155	90-106X[VB-1,HB-2]BJR,BRR		TAZEWELL	45	44	
		SHT. 1 OF 2				CONTRACT	NO. 6	8E27
	CADD	STD. 780001-D4	FED. RO	DAD DIST. NO.	ILLINOIS FED. AI	D PROJECT		



IGE <u>CONTINUOUS</u>		(Includes Width Transitions for Median and Left Turn Lane Introductions)
) km/h)	50' (15m)	15′ (5m)
km/h)	75' (23m)	20' (6m)
h)	150' (46m)	30' (9m)

# All dimensions are in inches (millimeters) unless otherwise noted.

		SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
T MARKINGS	155	155 90-106X[VB-1,HB-2]BJR,BRR			TAZEWELL	45	45
SHT. 2 OF 2					CONTRACT	NO. 6	8E27
CADD STD. 780001-D4	FED. RC	AD DIST. NO.	ILLINOIS	FED. AI	D PROJECT		