

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

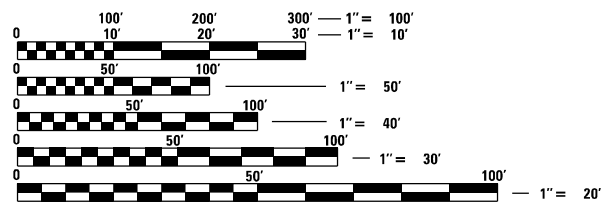
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2585	(122) BDR	BROWN	11	1
		ILLINOIS	CONTRACT NO. 72M50	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED CONTRACT MAINTENANCE

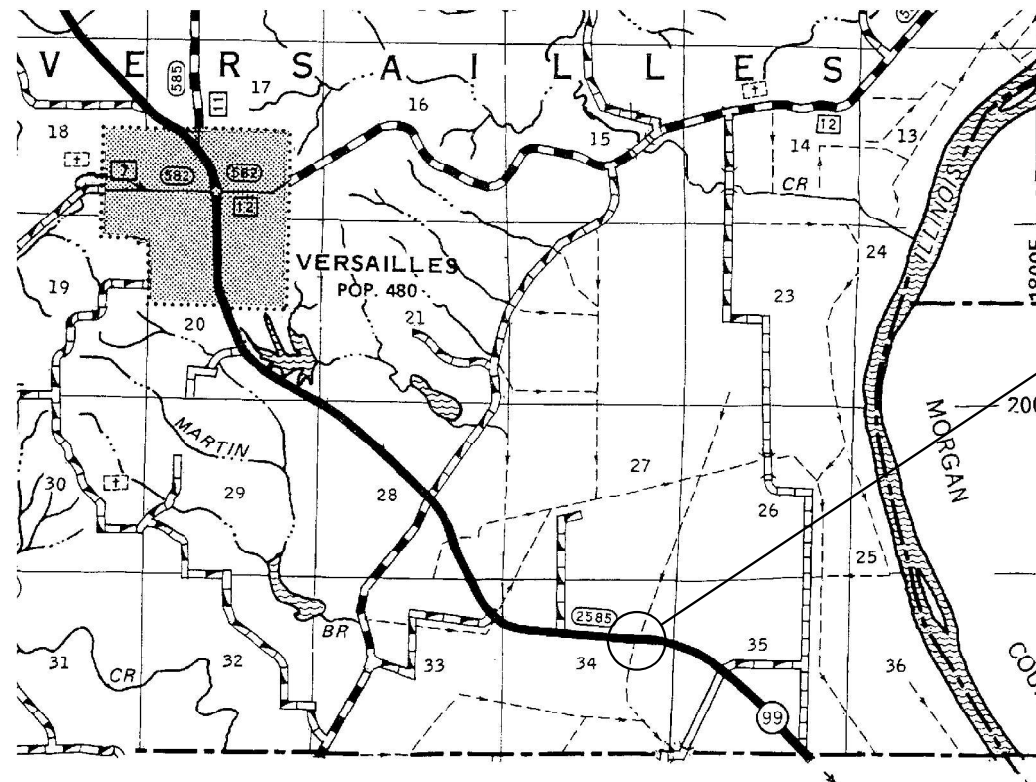
FAS ROUTE 2585 (IL 99)
SECTION (122) BDR
PROJECT (STATE ONLY)
BRIDGE DECK OVERLAY
BROWN COUNTY

C-96-016-21



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



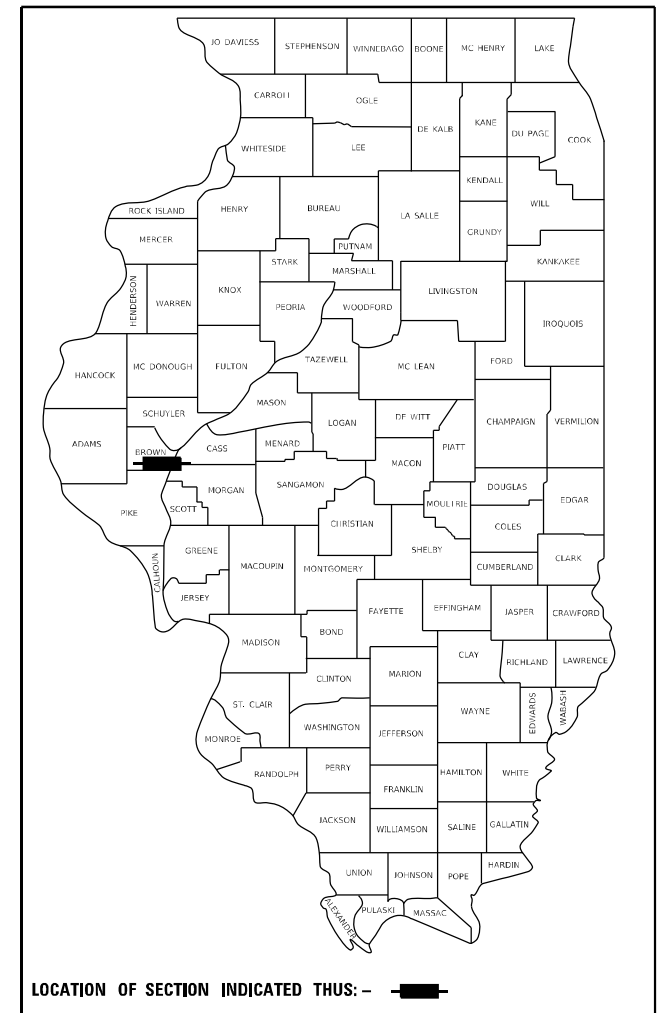
PROJECT LOCATION
SN 005-0004
IL 99 OVER DITCH
1.2 MI NW PIKE CO

BRIDGE MAINTENANCE ENGINEER: BRANDON DUDLEY - (217) 785-9290

GROSS LENGTH = 0.005 MILE

CONTRACT NO. 72M50

D-96-003-21



LOCATION OF SECTION INDICATED THIS: - [black rectangle] -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 6, 2020

John P. May
REGIONAL ENGINEER

December 4, 2020

Scott A. Etk
ENGINEER OF DESIGN AND ENVIRONMENT

December 4, 2020

James J. ...
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX, STANDARDS, QUANTITY SCHEDULES, SIGNATURES, & GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 TYPICAL SECTION & ROADWAY PLAN
- 5-6 TRAFFIC CONTROL PLAN
- 7-11 BRIDGE PLANS, SN 005-0004

GENERAL NOTES:

STANDARDS




- 000001-07
- 001001-02
- 001006
- 701001-02
- 701006-05
- 701201-05
- 701321-18
- 701326-04
- 701901-08
- 704001-08
- 780001-05
- 782006-01

SHOULDER IMPROVEMENT SCHEDULE							
STA	TO	STA	SIDE	BASE COURSE WIDENING 9" (SQ YD)	EARTH EX. WIDENING (CU YD)	PAVED SHLDR. REMOVAL (SQ YD)	AGG WEDGE SHLDR (TON)
691+64	-	693+33	RT	94	12	47	5
691+64	-	693+33	LT	94	13	41	5
693+55	-	694+55	RT	56	8	26	5
693+55	-	694+55	LT	56	7	28	5
			TOTALS	300	40	142	20

MIXTURE USE(S)	HMA BASE CSE WIDENING *
AC/PG	PG 64-22
DESIGN AIR VOIDS	4.0% @ N50
MIX COMPOSITION (GRADATION MIXTURE)	IL 19.0
FRICTION AGGREGATE	N/A
QUALITY MANAGEMENT	QC/QA
SUBLOT SIZE	N/A

* BASE COURSE PAY ITEM ALLOWS FOR HMA OR PCC USE.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT 6**

EXAMINED <u>September 18</u> 20 <u>20</u>  ENGINEER OF OPERATIONS
EXAMINED <u>October 1</u> 20 <u>20</u>  ENGINEER OF PROJECT IMPLEMENTATION
EXAMINED <u>October 2</u> 20 <u>20</u>  ENGINEER OF PROGRAM DEVELOPMENT

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0-02175-6021
SN 005-0004
100% STATE

0-02175-6021
SN 005-0004
100% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE-RURAL
				0059 BROWN
20200500	EARTH EXCAVATION (WIDENING)	CU YD	40	40
35650400	BASE COURSE WIDENING 9"	SQ YD	300	300
44004250	PAVED SHOULDER REMOVAL	SQ YD	142	142
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	20	20
50300300	PROTECTIVE COAT	SQ YD	102	102
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1180	1180
50800515	BAR SPLICERS	EACH	23	23
67100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	325	325
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	325	325

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE-RURAL
				0059 BROWN
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
*78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	1400	1400
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	270	270
X5030275	CONCRETE WEARING SURFACE REMOVAL	SQ YD	102	102
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	102	102

* SPECIALTY ITEM

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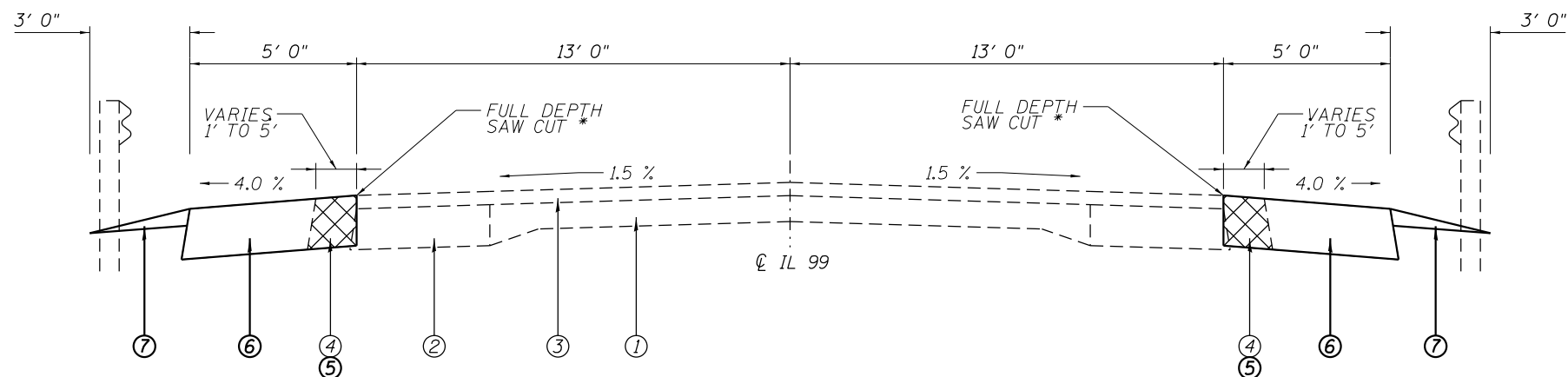
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2528	(122) BDR	BROWN	11	3
			CONTRACT NO. 72M50	
		ILLINOIS FED. AID PROJECT		

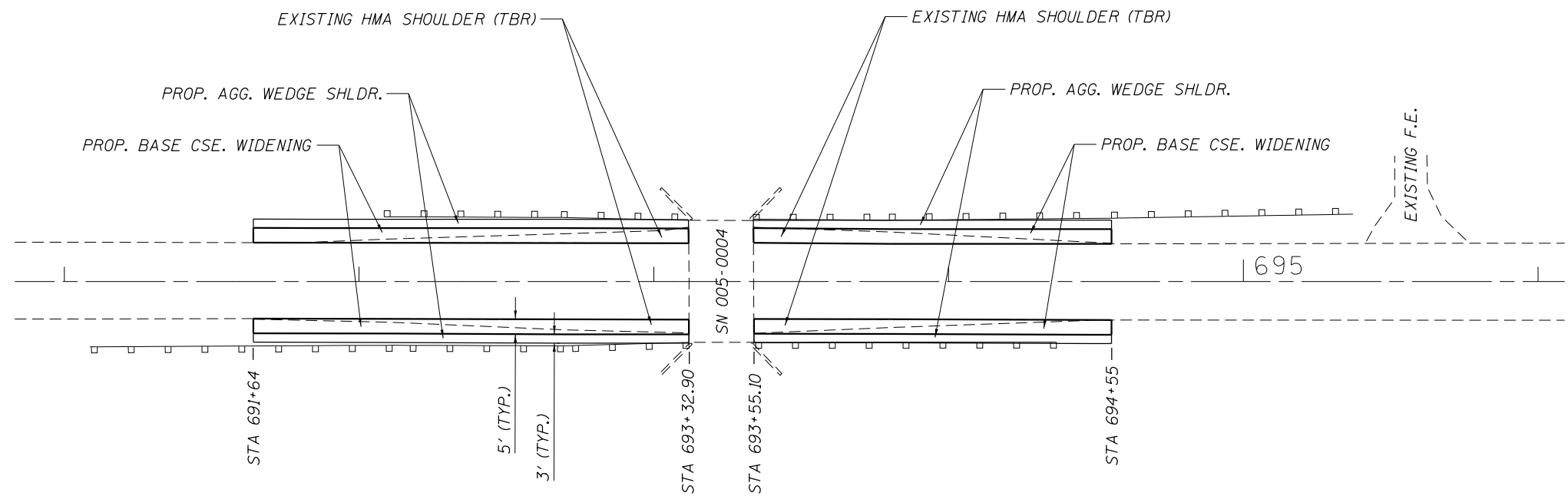


- ① EXISTING PCC PAVEMENT
- ② EXISTING HMA WIDENING
- ③ EXISTING HMA OVERLAYS
- ④ EXISTING HMA SHOULDERS - 9"
- ⑤ PROPOSED PAVED SHOULDER REMOVAL - 9"
- ⑥ PROPOSED BASE COURSE WIDENING - 9"
- ⑦ PROPOSED AGGREGATE WEDGE SHOULDER

STA 691+64 TO STA 693+32.90
 STA 693+55.10 TO STA 694+55

* A FULL DEPTH SAW CUT SHALL BE PROVIDED ADJACENT TO ALL SHOULDER REMOVAL LOCATIONS, COST INCLUDED IN PAVED SHOULDER REMOVAL.

EXISTING SHOULDER TAPERS:
 STA 691+64 RT TO STA 693+32.90 RT
 STA 691+65 LT TO STA 693+32.90 LT
 STA 693+55.10 RT TO STA 694+47 RT
 STA 693+55.10 LT TO STA 694+55 LT



ROADWAY PLAN

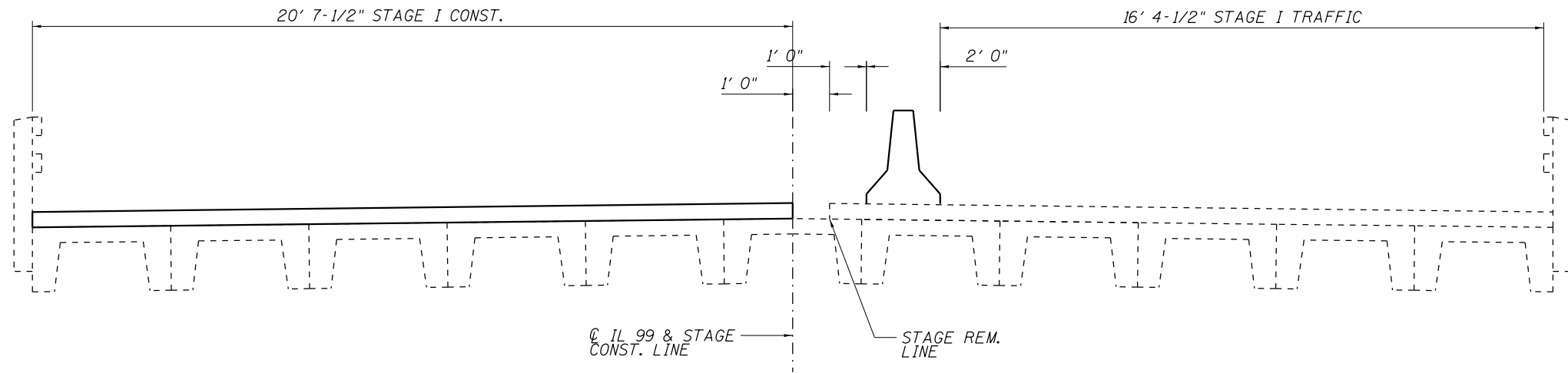
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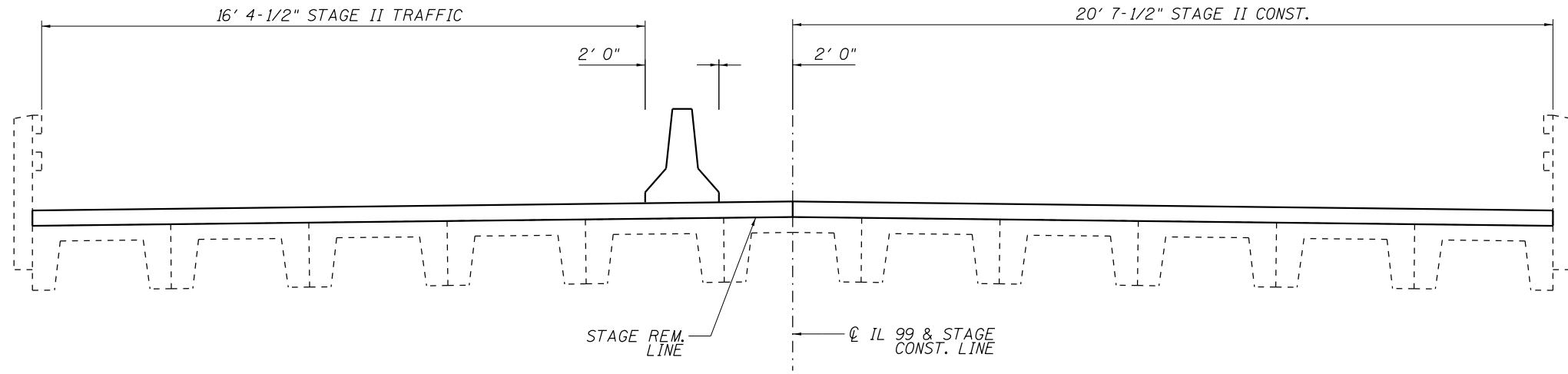
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION & ROADWAY PLAN	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2528	(122) BDR	BROWN	11	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72M50	



**STAGE I TRAFFIC STAGING
(LOOKING EAST)**



**STAGE II TRAFFIC STAGING
(LOOKING EAST)**

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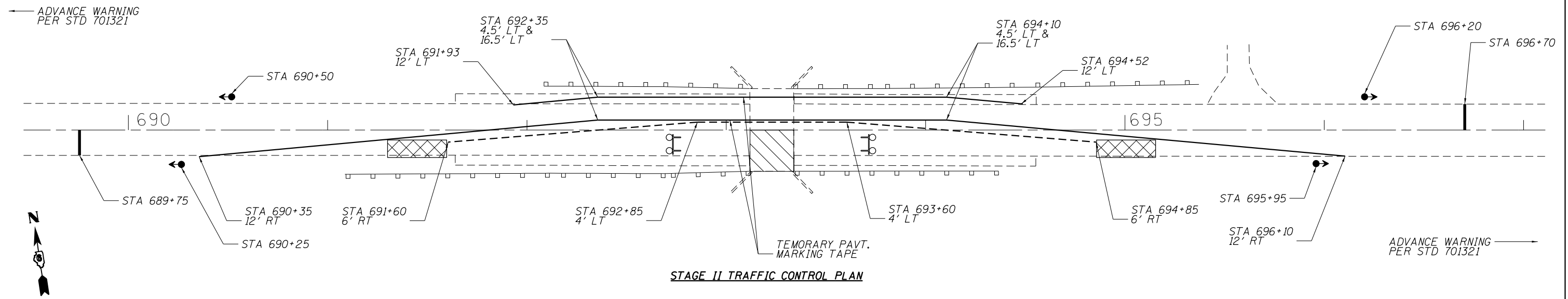
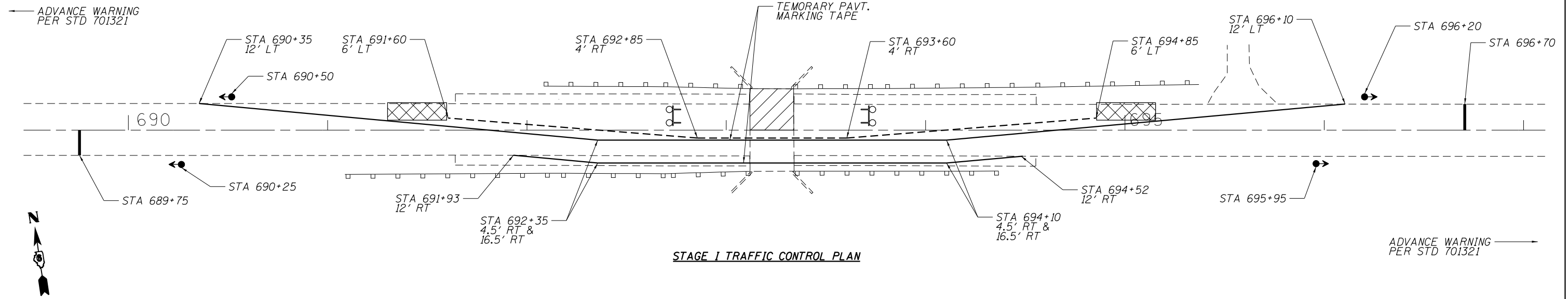
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PLOT DATE = 10/6/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**


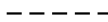



TRAFFIC STAGING DETAIL

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2528	(122) BDR	BROWN	11	5
CONTRACT NO. 72M50			ILLINOIS FED. AID PROJECT	



SYMBOLS

-  WORK AREA
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR
-  TRAFFIC SIGNAL
-  TYPE III BARRICADE WITH FLASHING LIGHTS

TRAFFIC CONTROL NOTES:

1. TRAFFIC CONTROL DEVICES NOT SHOWN IN THIS DETAIL SHALL BE PER STANDARD 701321. DEVICES AND TEMPORARY PAVEMENT MARKINGS SHOWN IN THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. IMPACT ATTENUATORS, AND TEMPORARY CONCRETE BARRIER SHALL BE PAID SEPARATELY.
2. TEMPORARY CONCRETE BARRIER OFFSETS GIVEN IN THIS DETAIL REFER TO THE EDGE OF THE BARRIER NEAREST TO LIVE TRAFFIC. BARRIER WALL TAPERS SHALL BE 12:1 UNLESS OTHERWISE NOTED.
3. RUMBLE STRIPS SHOWN IN STANDARD 701321 WILL NOT BE REQUIRED.

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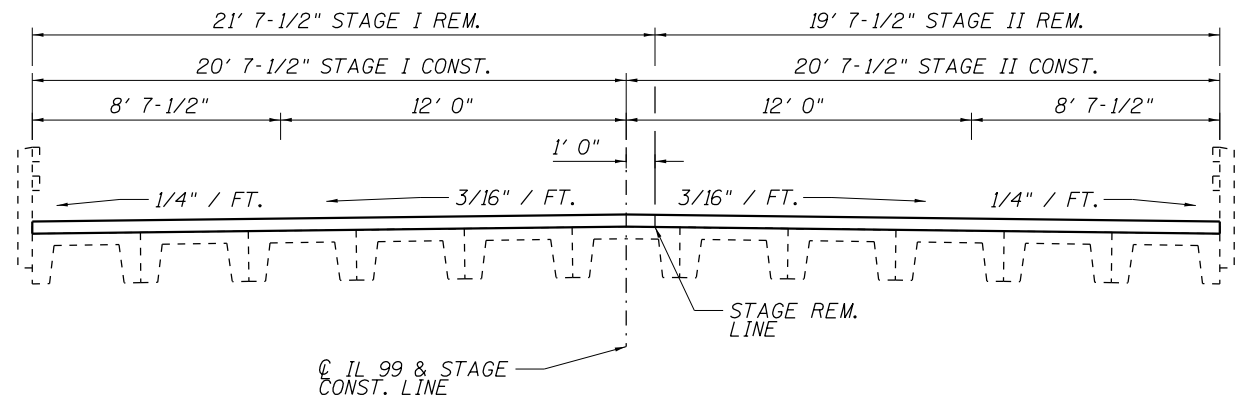
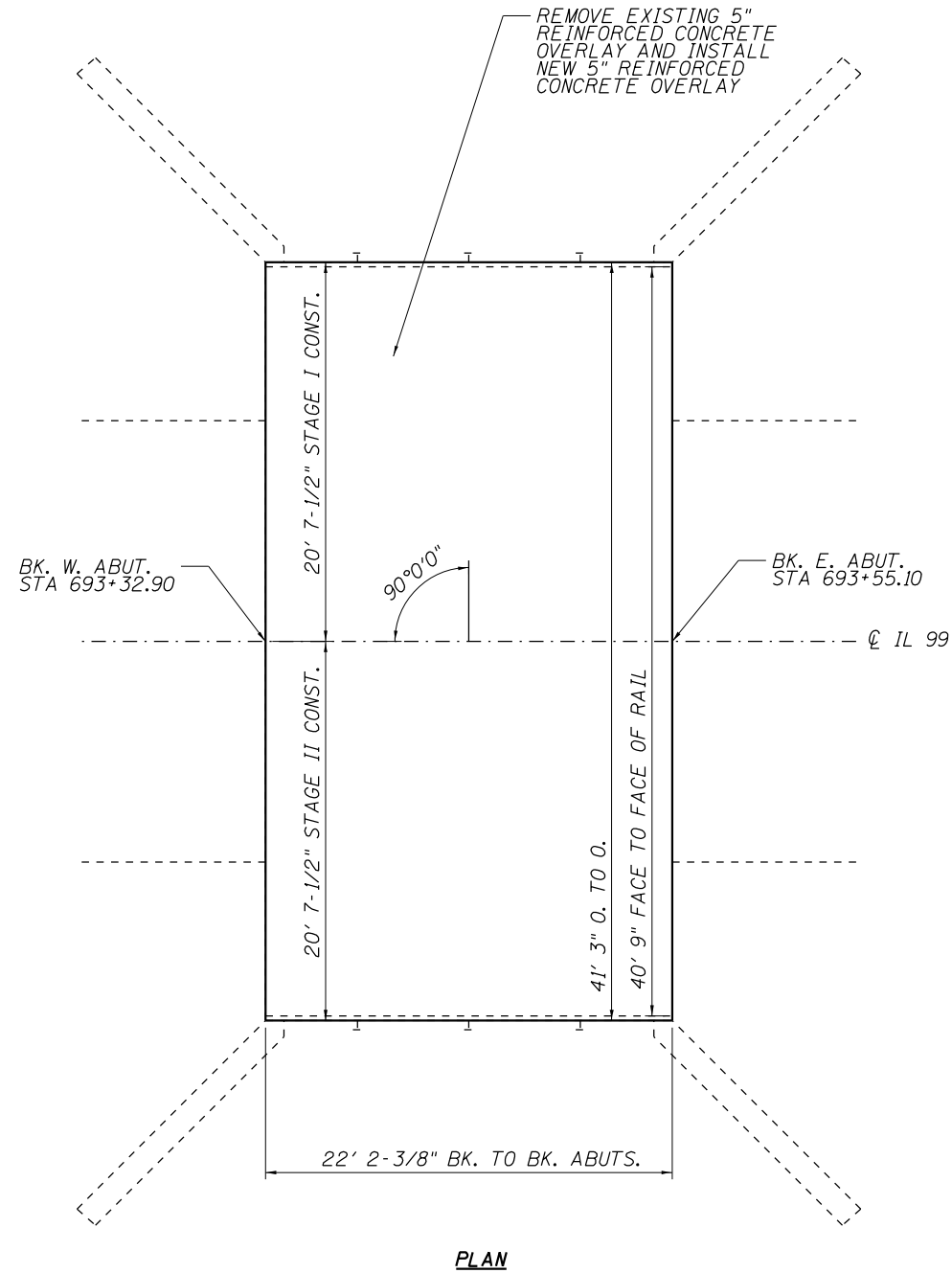
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

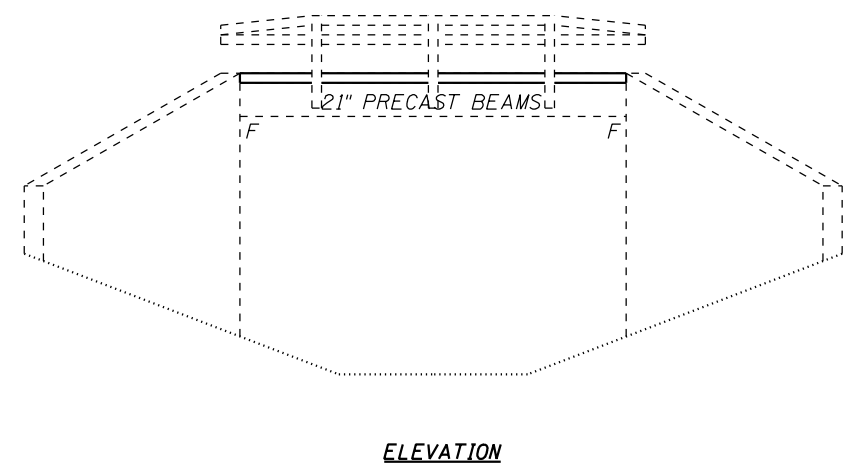
TRAFFIC CONTROL PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2528	(122) BDR	BROWN	11	6
CONTRACT NO. 72M50			ILLINOIS FED. AID PROJECT	



**CROSS SECTION
(LOOKING EAST)**



ELEVATION

Expires 11-30-2022

David Carl Puze

TOTAL BILL OF MATERIAL (SN 005-0004)

ITEM	UNIT	QUANTITY
Concrete Wearing Surface Removal	Sq. Yd.	102
Concrete Wearing Surface, 5"	Sq. Yd.	102
Reinforcement Bars, Epoxy Coated	Pound	1180
Bar Splicers	Each	23
Protective Coat	Sq. Yd.	102

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

THE EXISTING REINFORCED CONCRETE OVERLAY SHALL BE SAW CUT 4" DEEP AT THE REMOVAL LINE IN ORDER TO SEVER THE REINFORCING BETWEEN STAGES. ANY ADDITIONAL RELIEF CUTS MADE IN THE SLAB SHALL NOT EXCEED 4" IN DEPTH AND SHALL NOT CONTACT THE BEAMS. EXTREME CARE SHALL BE TAKEN TO PROTECT THE BEAMS DURING CONCRETE REMOVAL. ANY DAMAGE TO THE BEAMS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL VERIFY THE THICKNESS OF THE OVERLAY PRIOR TO COMMENCING ANY SAW CUTTING OPERATIONS.

THE DECK SURFACE SHALL HAVE ITS FINAL FINISH TINED ACCORDING TO ARTICLE 420.09(EX1) OF THE STANDARD SPECIFICATIONS. COST INCLUDED WITH CONCRETE WEARING SURFACE, 5".

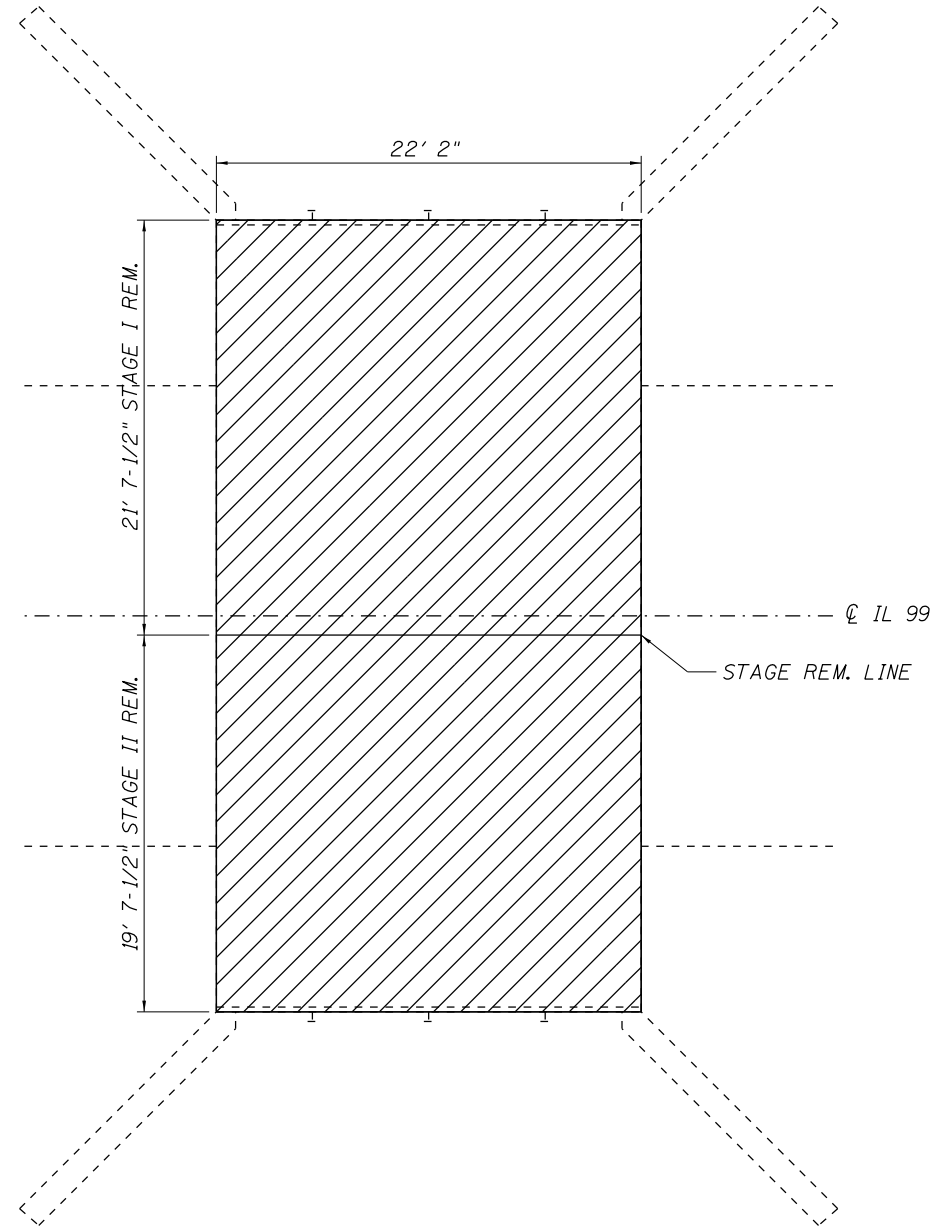
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	DATE - 8/24/2020	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

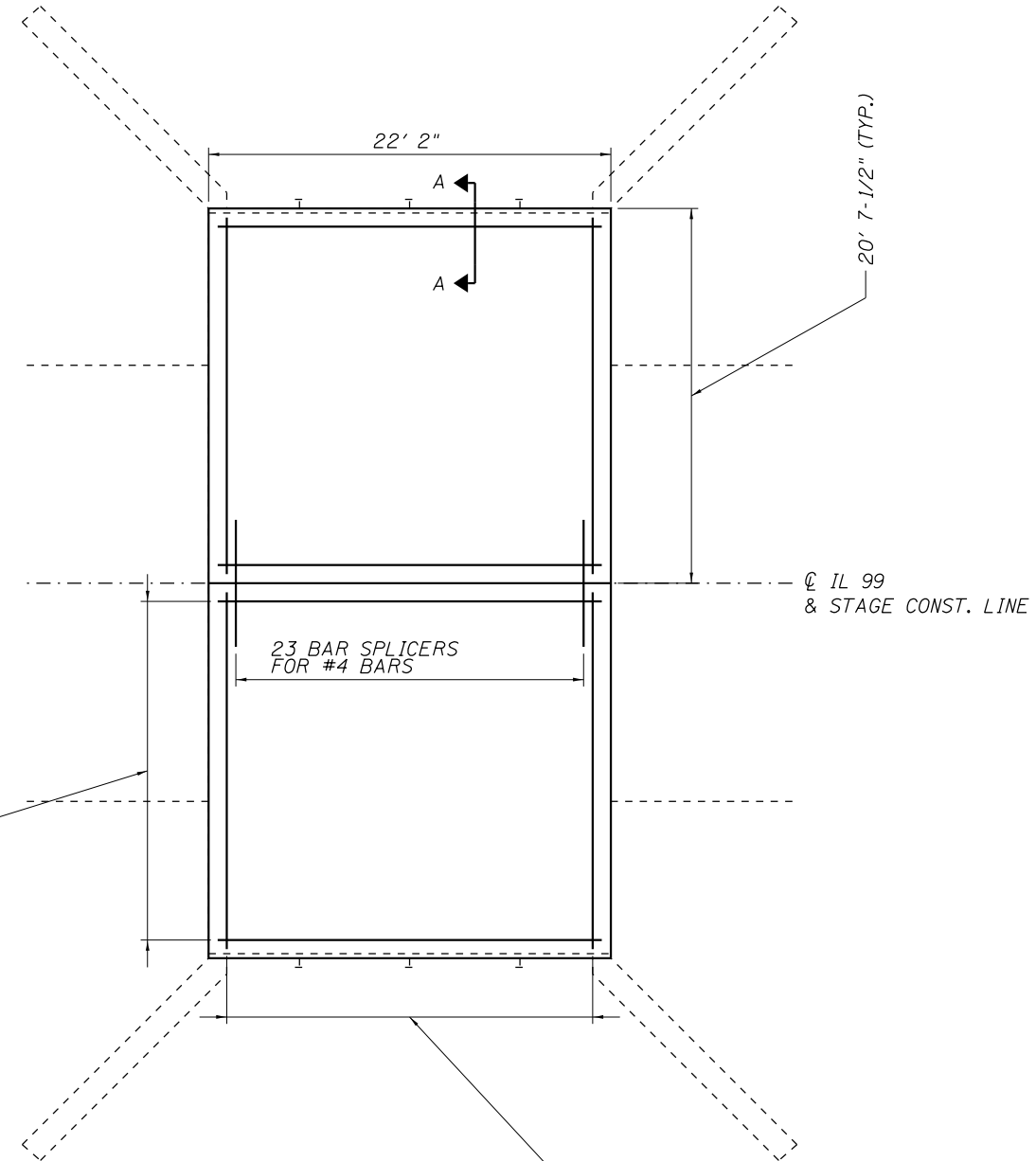
BRIDGE PLAN & ELEVATION	
SN 005-0004	
SCALE: _____	SHEET 1 OF 5 SHEETS
STA. _____	TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2585	(122) BDR	BROWN	11	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72M50	

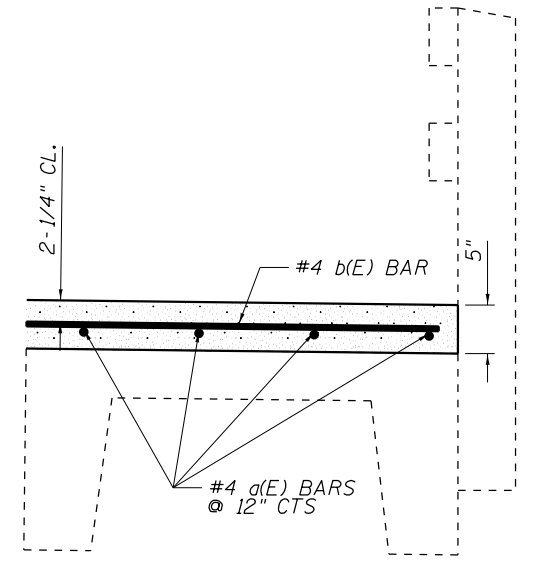


REMOVAL PLAN

CONCRETE WEARING SURFACE REMOVAL AREAS



PLAN



SECTION A-A

OVERLAY BILL OF MATERIAL				
BAR	#	SIZE	LENGTH	SHAPE
d(E)	42	#4	19' 10"	—
b(E)	46	#4	20' 3"	—
REINFORCEMENT BARS (EPOXY COATED)			POUND	1180
CONC. WS REM.			SQ YD	102
CONC. WS 5"			SQ YD	102

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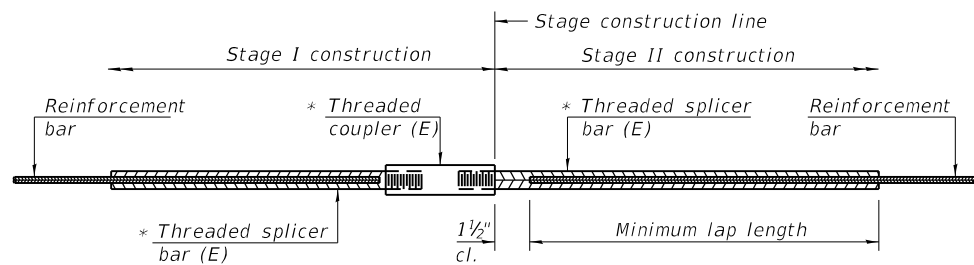
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK OVERLAY PLAN
SN 005-0004**

SCALE: SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2585	(122) BDR	BROWN	11	8
			CONTRACT NO. 72M50	
ILLINOIS FED. AID PROJECT				

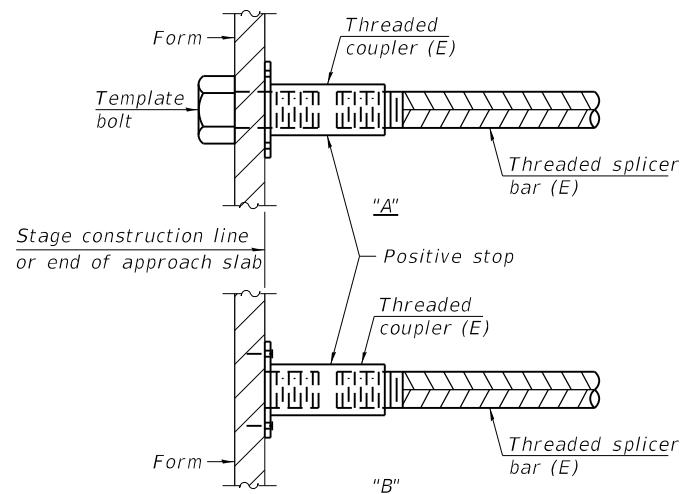


STANDARD BAR SPLICER ASSEMBLY

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

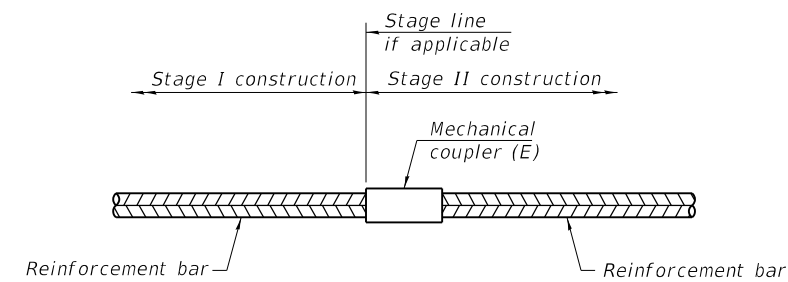
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Overlay stage line	#4	23	2' 5"



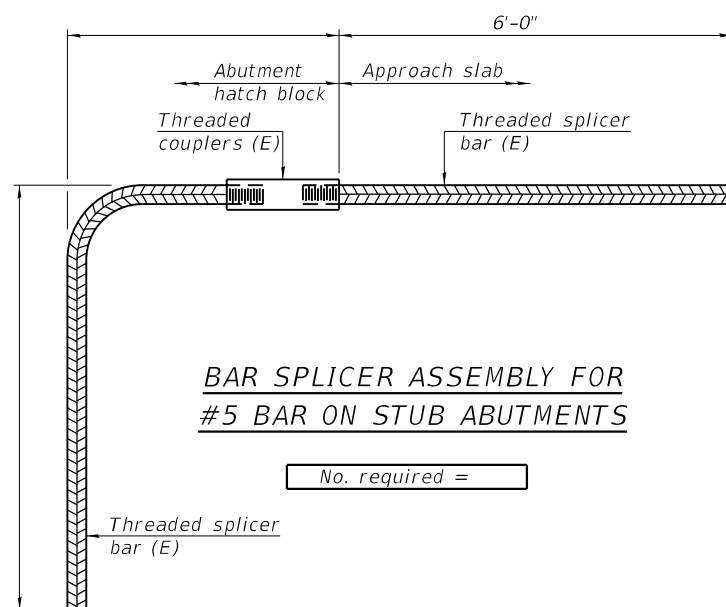
INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

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

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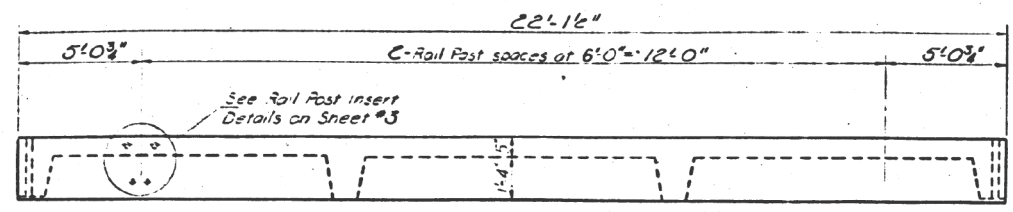
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
SN 005-0004**

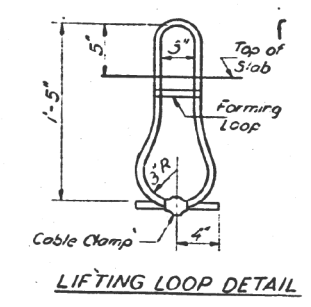
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2585	(122) BDR	BROWN	11	9
CONTRACT NO. 72M50			ILLINOIS FED. AID PROJECT	

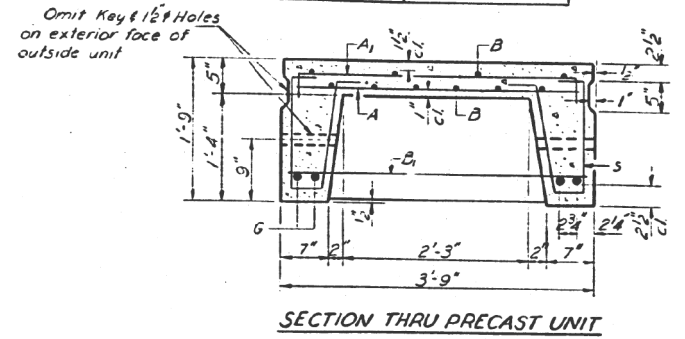
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122BR	BROWN	12	10	4 SHEETS



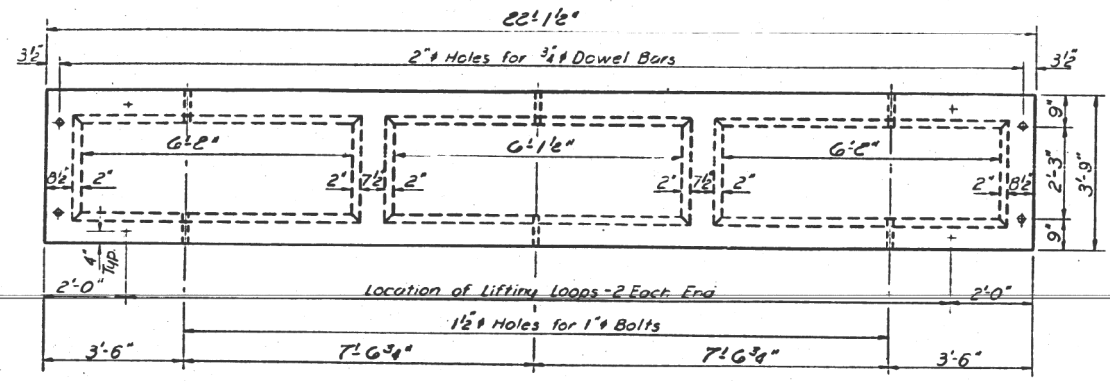
ELEVATION



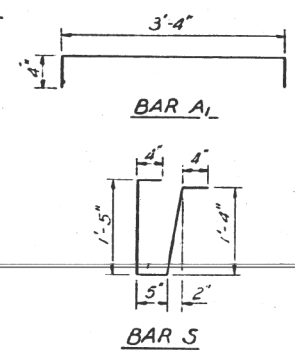
LIFTING LOOP DETAIL



SECTION THRU PRECAST UNIT

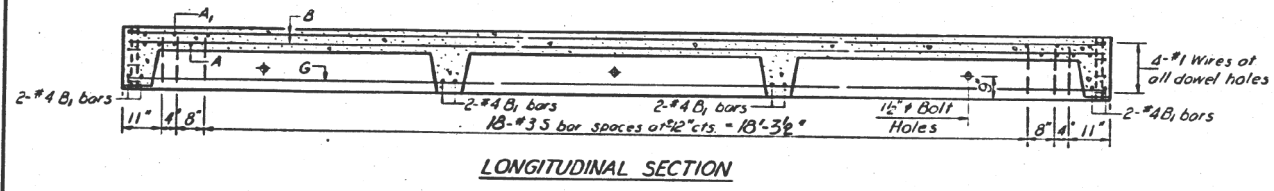


PLAN OF ONE UNIT

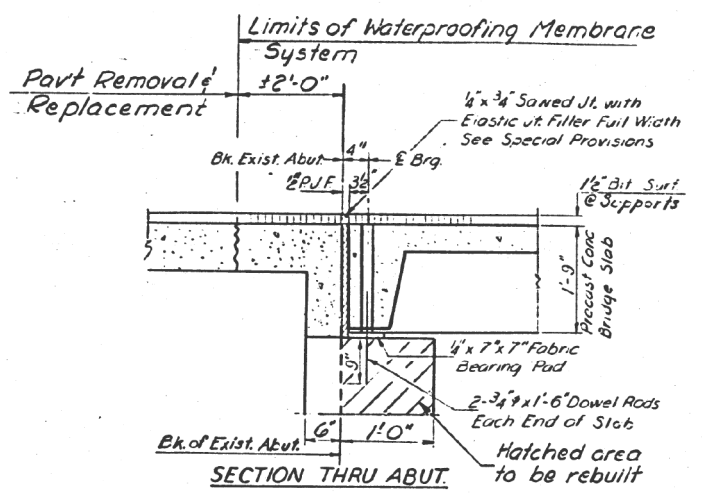


BAR LIST-ONE UNIT
Reinforcement to be cast into slab

Bar	No.	Size	Length	Grade
A	59	#4	3'-3"	
A1	30	#4	4'-0"	
B	10	#4	2'-10"	
S1	8	#4	3'-6"	
G	4	#11	2'-10"	
S	46	#3	3'-10"	[

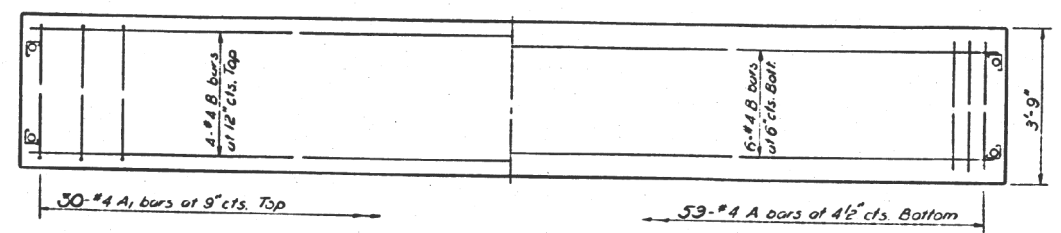


LONGITUDINAL SECTION

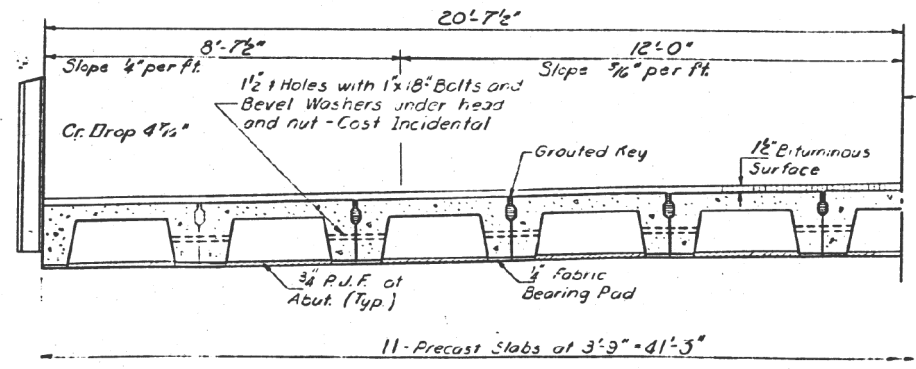


SECTION THRU ABUT.

NOTES
Unless otherwise approved by the Engineer, lifting loops shall be 1/2" 6x25 class wire rope with fiber core and shall have a minimum ultimate strength of 210,000 lbs. Loops shall be burred off after slab has been erected. Holes shall be drilled and anchor dowels grouted in place. Cost of reinforcement and accessories cast into the slab unit, clearing pads, furnishing, drilling for placing and grouting anchor dowels is included in Unit bid price for "Precast Concrete Bridge Slab". Longitudinal Shear Keys shall be packed with a very dry mix of 1:1 sand & PC Mortar. Tie bolts, nuts & washers shall be hot-dipped galvanized in accordance with AASHTO designation M 232.



SLAB REINFORCEMENT



HALF CROSS SECTION

(See Sheet #4 for Slope Constr. Detail)

BILL OF MATERIAL

Item	Unit	Qty.
Precast Concrete Bridge Slab	Sq Ft	913
Removal of Existing Superstructure	Each	1

SUPERSTRUCTURE
FA RT 92 SEC 122BR
BROWN COUNTY
STA. 693+44

DESIGNED: *H. H. Van Lee*
CHECKED: F. Mercado
DRAWN: R. P. Summer
CHECKED: F. Mercado

EXAMINED: *June 18 1971*
FASSED: *W. E. Baumann*
APPROVED: *Richard A. Hollerman*

STRESSES
F_c = 4,500 psi.
F_s = 1,800 psi.
F_s = 20,000 psi.
n = 8
Loading HS-20

SR-4 21' Precast Units >20'lg.

MODEL: Default; FILE: \\MAILSrv\OPERATIONS\Bids\Bids\Bids\Bids\CAD\72M50 - 0050004.dwg; USER: hollerman

USER NAME = dudleybm	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/6/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

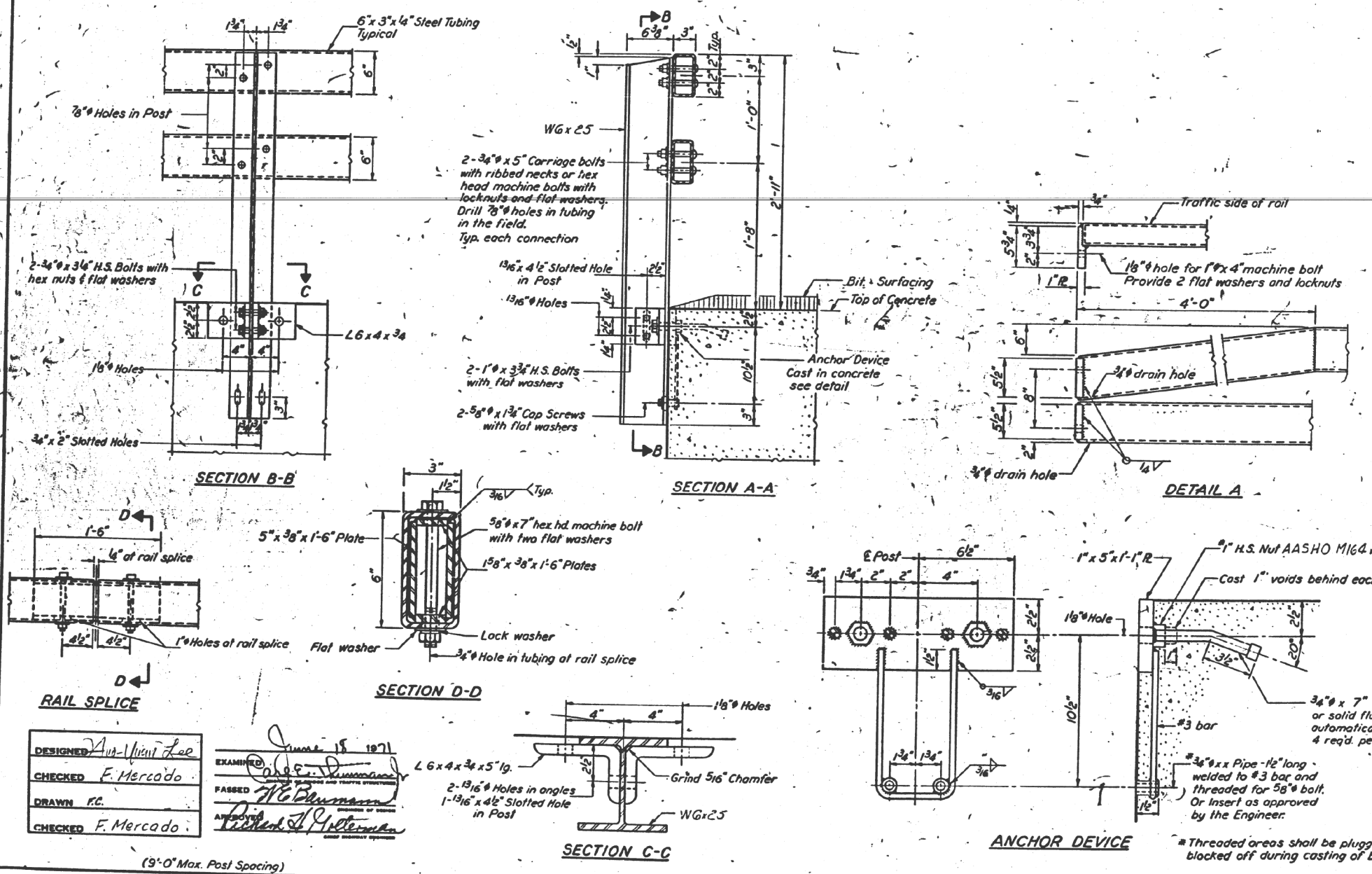
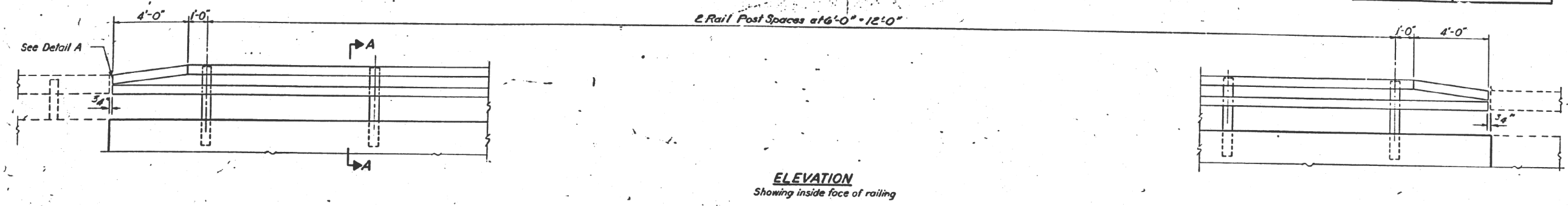
EXISTING PLANS - SN 005-0004
(FOR INFORMATION ONLY)

SCALE: SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2585	(122) BDR	BROWN	11	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72M50	

DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9.2	122B	BROWN	12	11
SHEET NO. 3				
4 SHEETS				

2 Rail Post Spaces at 6'-0" = 12'-0"



NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A-501 "Hot Formed Welded and Seamless Carbon Steel Structural Tubing."

All other steel shapes and plates shall conform to the requirements of AASHO designation M163 except posts shall conform to AASHO M185

Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A-307 except for high strength bolts, nuts and washers noted which shall conform to AASHO designation M164

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with AASHO designation M232

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with AASHO designation M111 & ASTM A-385 Galvanized rail shall not be painted.

Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per lineal foot for STEEL RAILING, TYPE N

All field drilled holes shall be coated with an approved zinc rich paint before erection.

The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.08 Type B or place 1/2" fabric bearing pad between the post and concrete.

The 3/4" high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened in accordance with Article 710.11 of the Standard Specifications. The 1" high strength bolts connecting the angles to the concrete beam shall be tightened to a snug fit and given an additional 1/8 turn.

BILL OF MATERIAL

Item	Unit	Quantity
STEEL RAILING, TYPE N	Lin. Ft.	48

TYPE N
STEEL RAILING
F.A.R.T. 92, SEC. 122 BR
BROWN COUNTY
STA. 693+44

DESIGNED: *Ann-Vivian Lee*
CHECKED: *F. Mercado*
DRAWN: *FC*
CHECKED: *F. Mercado*

EXAMINED: *James R. 18 1971*
PASSED: *W.C. Burmann*
APPROVED: *Richard J. Miller*

R-2 (9'-0" Max. Post Spacing)

MODEL: Defaul... FILE: \\MAILS... OPERATIONS\B... CAD: 72450 - 0050004... everby\barbaractrdm

USER NAME = dudleybm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS - SN 005-0004 (FOR INFORMATION ONLY)	F.A.S. RTE. 2585	SECTION (122) BDR	COUNTY BROWN	TOTAL SHEETS 11	SHEET NO. 11
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -	SCALE:	SHEET 5 OF 5 SHEETS	TO STA.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 72M50	
PLOT DATE = 10/6/2020	DATE -	REVISED -							