

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INDEX OF SHEETS, SEE SHEET NO. 2

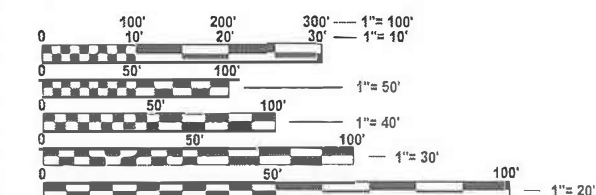
ADT = 12,300 (1-72)

ADT = 9,350 (45 36)

PROPOSED HIGHWAY PLANS

FAI 72, FAP 323 (I 72, US 36)
SECTION D7 BRIDGE PAINTING 2025-3
PROJECT NHPP-SRNC(582)
BRIDGE PAINTING
MACON COUNTY

C-97-066-24

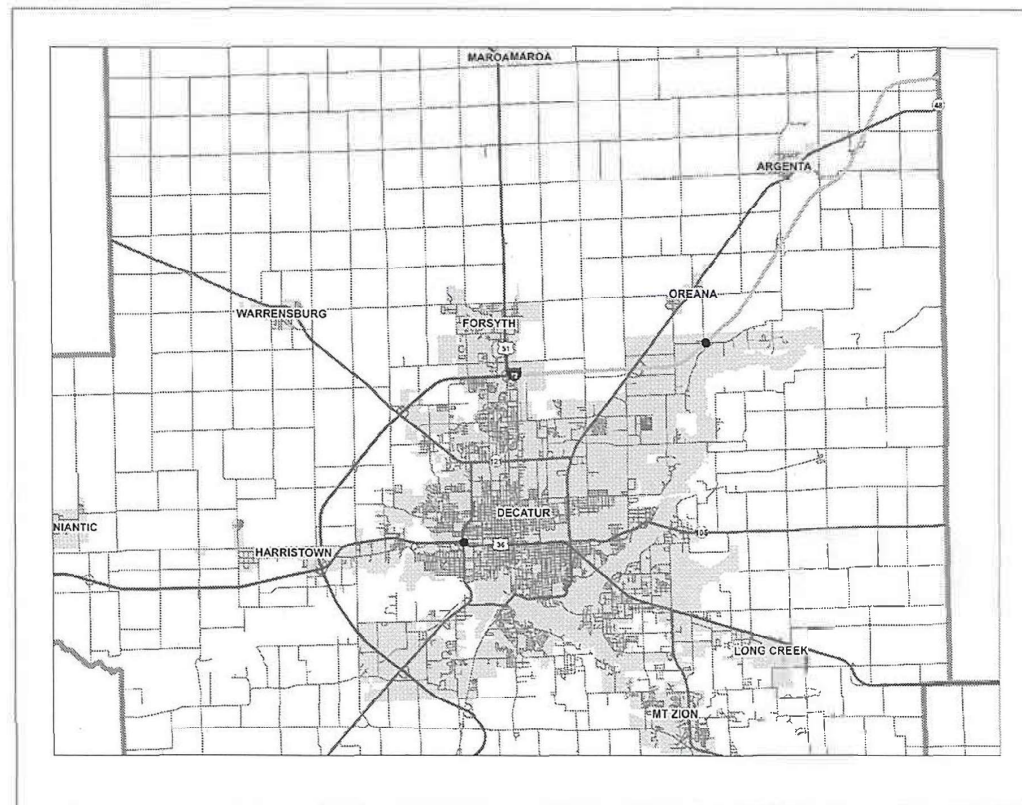


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER MATT BOWER
PROJECT MANAGER STACY ANDERSON

CONTRACT NO. 74D03



GROSS LENGTH = N/A FT. = N/A MILE
NET LENGTH = N/A FT. = N/A MILE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	D7 BRIDGE PAINTING 2025-3	MACON	13	1

I 72, US 36

D-97-035-24



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED DECEMBER 11 20 24
Jeffrey P. Myrka
REGIONAL ENGINEER

January 31 20 25
Scott A. Elk
ENGINEER OF DESIGN AND ENVIRONMENT

January 31 20 25
Jeffrey P. Myrka
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

REV - MS

MODEL: General Note (Sheet)
FILE NAME: c:\pw_work\pwwork\hille\jld090005D774D03-shl-gennotes.dgn

GENERAL NOTES

THE PROPOSED PROJECT IS LOCATED AT 2 LOCATIONS: IL 72 & US 36 IN MACON COUNTY.

THE WORK INCLUDED IN THIS SECTION CONSISTS OF CLEANING AND PAINTING THE BRIDGE AS SPECIFIED IN THE PLANS AND SPECIAL PROVISIONS.

THE STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED AS SPECIFIED IN THE PLANS AND THE SPECIAL PROVISIONS.

ALL DECK DRAINS SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 - OZ/E/U. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THEIR OWN EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

ONLY STRUCTURAL STEEL IS TO BE PAINTED. ALL OTHER SURFACES WILL BE PROTECTED FROM BEING PAINTED. ALL PAINT AND OVERSPRAY WILL BE REMOVED AT THE CONTRACTOR'S EXPENSE.

THE SSPC QP1 AND QP2 PAINTING CONTRACTOR CERTIFICATION WILL BE REQUIRED FOR THIS PROJECT.

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS, GENERAL NOTES, LOCATION DESCRIPTIONS
3	SUMMARY OF QUANTITIES
4	LOCATION MAPS
5-13	EXISTING STRUCTURE PLANS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER THE LAST NUMBERED SHEET:

000001-08	STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
643001-03	SAND MODULE IMPACT ATTENUATORS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULT-ILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701201-05	LANE CLOSURE, 2L, 2W, FOR SPEEDS >= 45 MPH
701321-19	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUTABLE MEDIAN
701611-01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-10	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

LOCATION #1

COLOR OF THE FINISH COAT SHALL BE GRAY, MUNSELL 5B 7/1.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All structural steel, including beams, bearings, and diaphragms, shall be cleaned by SSPC-SP10- Near White Metal Blast Cleaning. Cleaning and painting of the existing structural steel shall be specified in the special provision for "Cleaning and Painting Existing Steel Structures". This structure contains lead paint.

The designated areas cleaned per Near White Metal Blast Cleaning - SSPC-SP10 shall be painted according to the requirements of Paint System 1 - OZ/E/U.

LOCATION #1

BRIDGE #1
ROUTE: FAI 72
MARKED: IL 72
STATION: 50+10.10
STRUCTURE NUMBER: 058-0087, TR 45(KIRBY RD) over I-72
MACON COUNTY

2 air monitors will be required at this location.

LOCATION #2

COLOR OF THE FINISH COAT SHALL BE GRAY, MUNSELL 5B 7/1.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All structural steel, on all beams, bearings, and diaphragms, within 5' (measured along the beam) of the abutments and any expansion joints shall be cleaned by SSPC-SP10- Near White Metal Blast Cleaning. The outside and bottoms of both fascia beams, for the entire length of the beams, shall be cleaned in their entirety by SSPC-SP10- Near White Metal Blast Cleaning.

The designated areas cleaned per Near White Metal Blast Cleaning - SSPC-SP10 shall be painted according to the requirements of Paint System 1 - OZ/E/U.

LOCATION #2

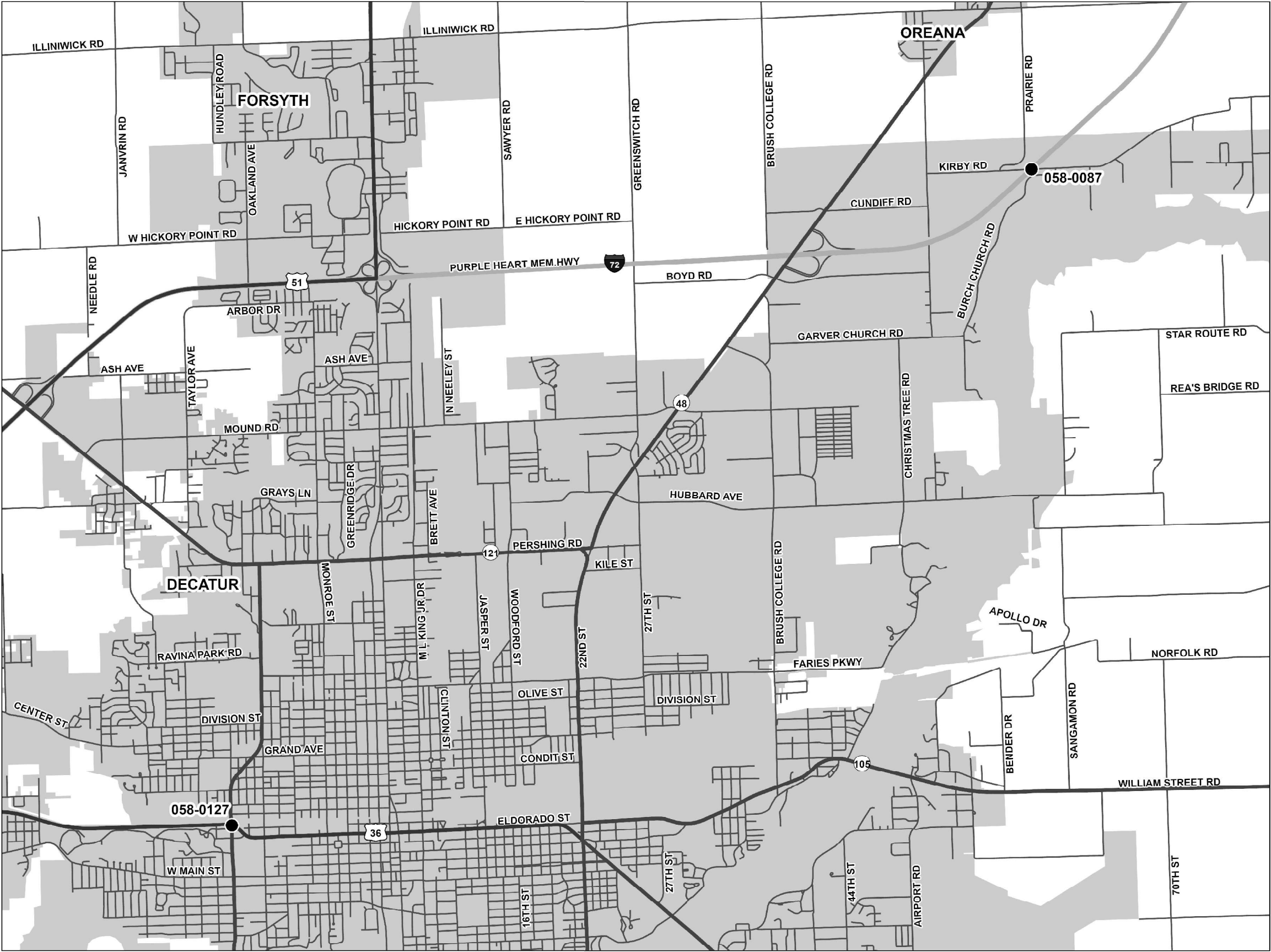
BRIDGE #2
ROUTE: FAP 323
MARKED: US 36
STATION: 7+434.729
STRUCTURE NUMBER: 058-0127, FAP 323(US 36) over FAU 7429(IL 48) IN MACON COUNTY

4 air monitors will be required at this location.

REV - MS

	USER NAME = jessica.hille	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, GENERAL NOTES SHEETS			FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					323	D7 BRIDGE PAINTING 2025-3	MACON	13	2
		CHECKED -	REVISED -					CONTRACT NO. 74D03				
	PLOT DATE = 12/11/2024	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

MODEL: Location Map (Sheet)
FILE NAME: c:\p\work\pwrtd\illinois.gov_stacy.anderson@illinois.gov\d0990065D774D03-shr-plan.dgn



USER NAME	= jessica.hille	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 12/11/2024	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION MAP
058-0087 & 058-0127

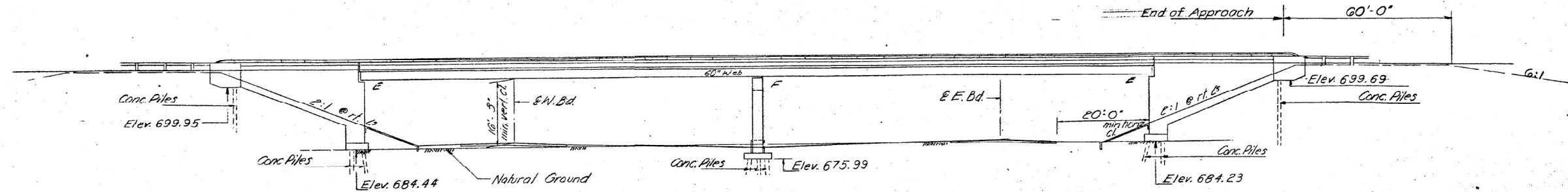
SCALE: SHEET 1 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	D7 BRIDGE PAINTING 2025-3	MACON	13	4
CONTRACT NO. 74D03				
ILLINOIS FED. AID PROJECT				

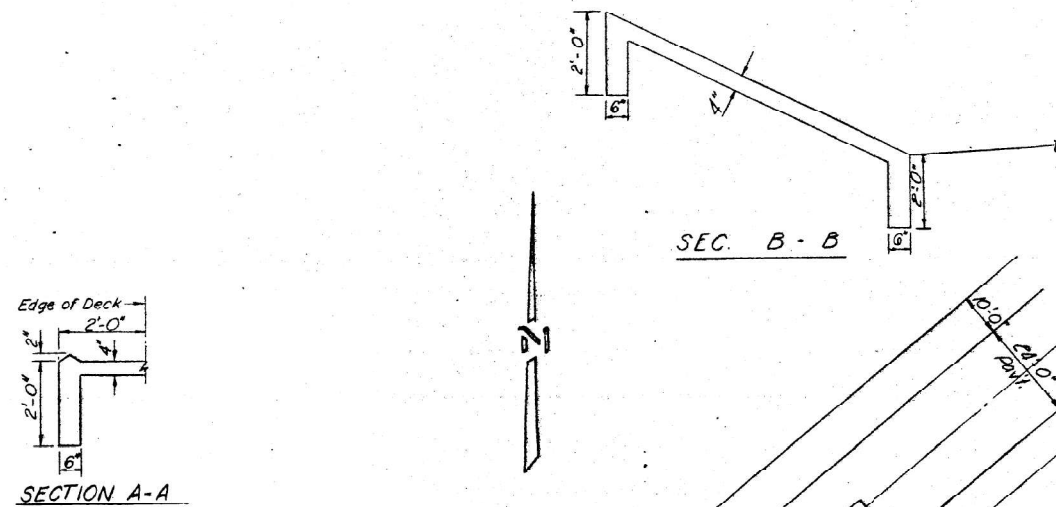
D.M. Spike in R.P. 5TH Eula W. of Inter. of Church Rd.
& T.R. 45 at S.E. Cor. NE 1/4, NE 1/4 Sec. 21 11E4' 11.516' 420' 101
Elev. 684.70

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
FAI 72	58-65	MACON	62	16	13 SHEETS
FED. ROAD DIST. NO. 7					
ILLINOIS					
FED. AID PROJECT					



ELEVATION

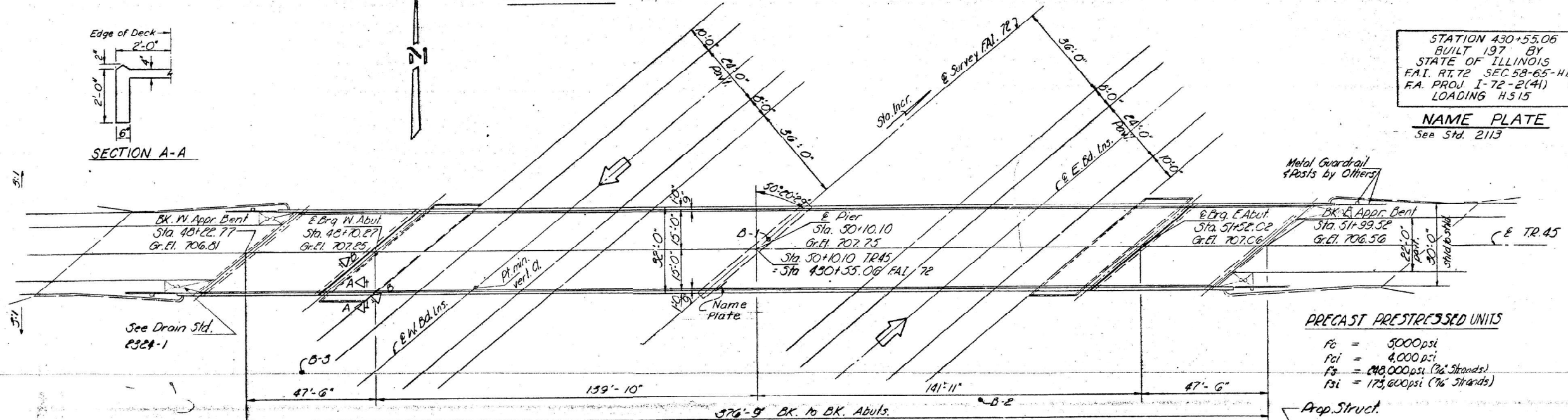


SECTION A-A

SEC. B - B

STATION 430+55.06
BUILT 197 BY
STATE OF ILLINOIS
FAI RT. 72 SEC. 58-65-HB
FA. PROJ. I-72-2(41)
LOADING HS 15

NAME PLATE
See Std. 2113

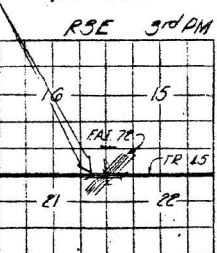


PLAN

PRECAST PRESTRESSED UNITS

$f'_c = 5000 \text{ psi}$
 $f'_t = 4000 \text{ psi}$
 $f_s = 248,000 \text{ psi (7/8" Strands)}$
 $f_{si} = 173,600 \text{ psi (7/8" Strands)}$

Prop. Struct.



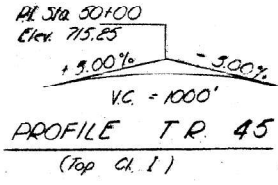
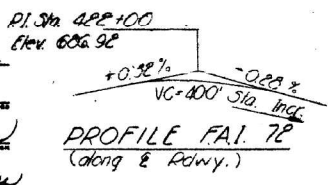
LOCATION SKETCH

PROJECT I-72-2(41) 43
TR. 45 OVER FAI. 72
FAI. 72 SECTION 58-65-HB
MACON COUNTY
STATION 430+55.06 FAI. 72-
STATION 501+10.10 TR. 45

5-85

DESIGNED	Suresh T. Desai
CHECKED	Aug. 1, 1972
DRAWN	daily
CHECKED	GWA

EXAMINED	August 4, 1972
PASSED	W. G. Baumann
APPROVED	Richard J. Holtermann



DESIGN STRESSES
 $f_c = 1200 \text{ psi}$ (Deck Slab)
 $f_t = 1400 \text{ psi}$ (Curb, Parapet, Sub.)
 $f_s = 20,000 \text{ psi}$ (Reinf.)
 $f_b = 20,000 \text{ psi}$ (Strut.)
 $f_v = 75 \text{ psi}$ (Fig.)
 $n = 10$
Allow 25 #12' future W.S.
Design Specifications AASHTO 1969 as applicable.

LOADING HS 15-44

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

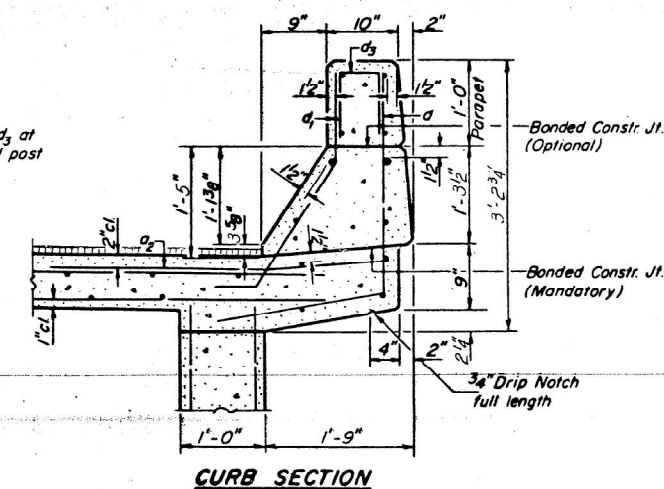
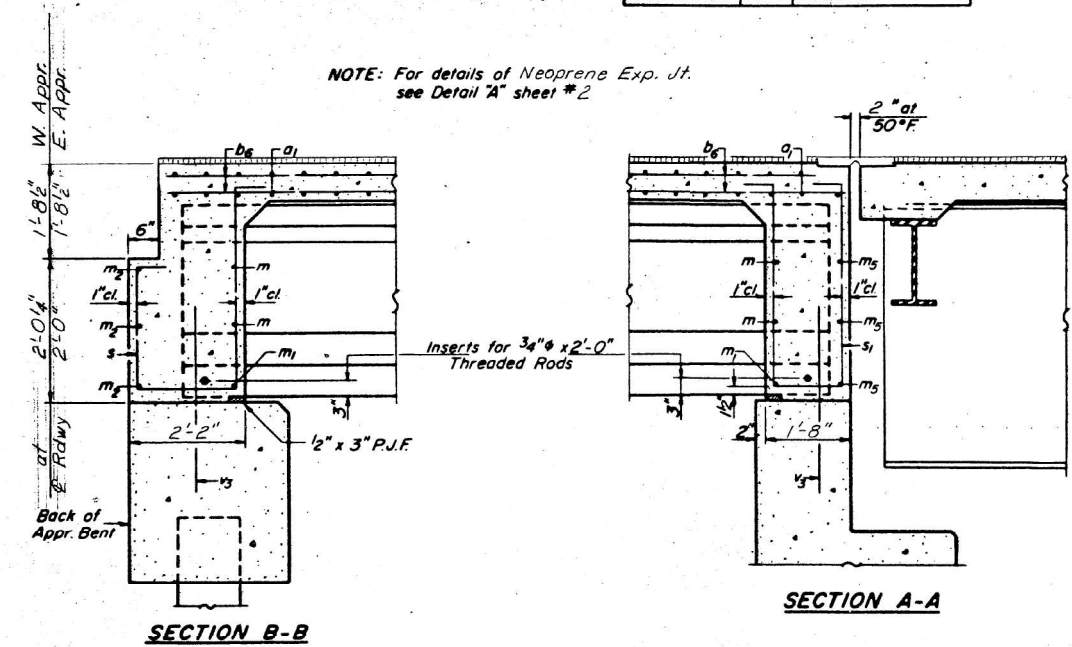
EXISTING STRUCTURE PLANS
058-0087

SCALE: SHEET OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	D7 BRIDGE PAINTING 2025-3	MACON	13	2
CONTRACT NO. 74D03				
ILLINOIS FED. AID PROJECT				

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801 P. 1. 72	58-65 HB	MACON	62	22
FED. ROAD DIST. MAP 1		PLANNING	FED. AID PROJECT	

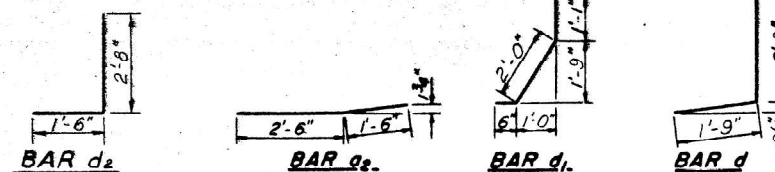
SHEET NO. 7
18 SHEETS



TWO APPR. SPANS				
BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
a ₁	328	#5	30'-0"	—
a ₂	156	#6	4'-0"	—
b ₆	260	#5	23'-0"	—
b ₇	16	#9	22'-0"	—
b ₈	32	#5	21'-9"	—
d	168	#4	4'-6"	J
d ₁	156	#5	3'-7"	J
d ₂	12	#5	4'-2"	J
m	32	#4	9'-3"	—
m ₁	16	#5	8'-2"	—
m ₂	12	#5	24'-0"	—
m ₃	16	#4	5'-9"	—
m ₄	16	#4	5'-4"	—
m ₅	12	#5	21'-3"	—
s	60	#4	7'-11"	J
s ₁	60	#4	9'-0"	J
s ₂	40	#4	6'-8"	J
Reinforcement Bars			Lbs.	22120
Class X Concrete			Cu.Yds.	118.7

*Parapet Reinforcement and Class X Concrete are billed on sheet # 11
For placement and details of bars m thru m₅ and s thru s₇ see sheet # 9

APPROACH SPANS
SUPERSTRUCTURE
F.A.I. RT. 72 SEC. 58-65-HB
MACON COUNTY
STATION 430+55.06



DESIGNED	Suresh T. Desai
CHECKED	Ang W. Buxton
DRAWN	R. P. Summer
CHECKED	C. V. B.

AUG. 4 1972
 EXAMINER *[Signature]*
 PASSED *W. G. Baumann*
 APPROVED *Richard A. Holterman*

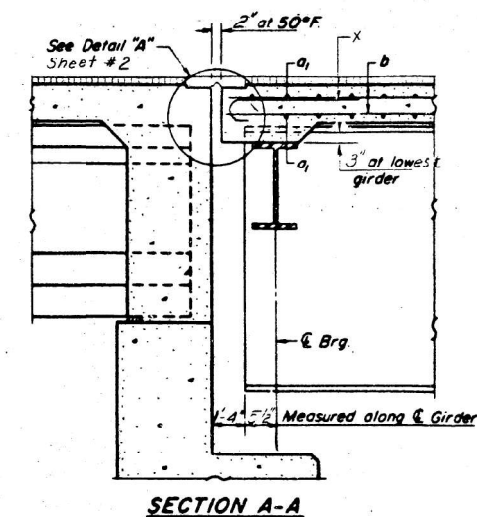
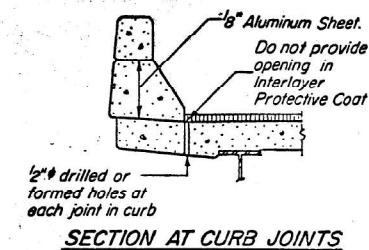
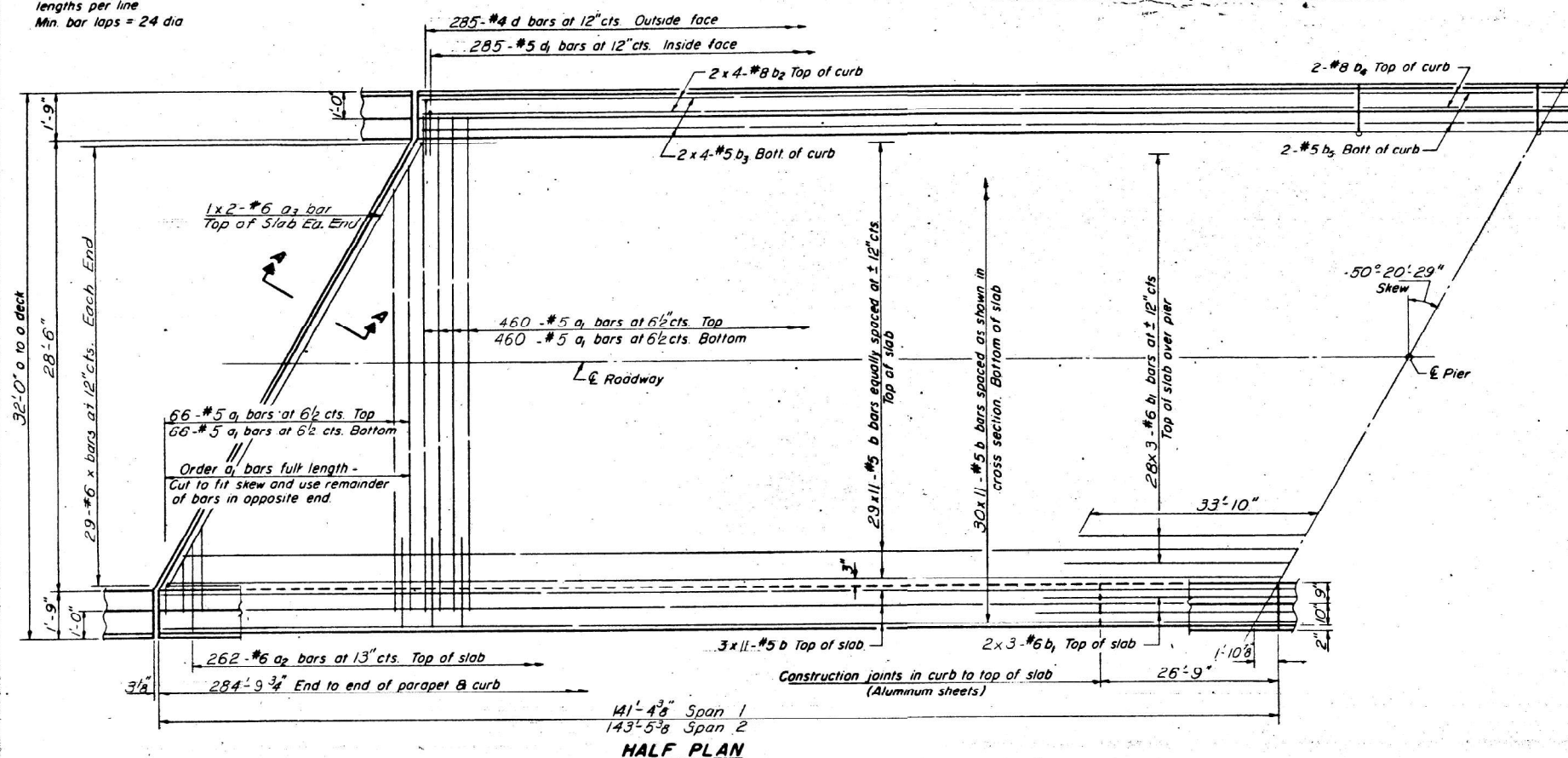
SA-506-L(>30°) 3-17-69

EXISTING STRUCTURE PLANS
058-0087

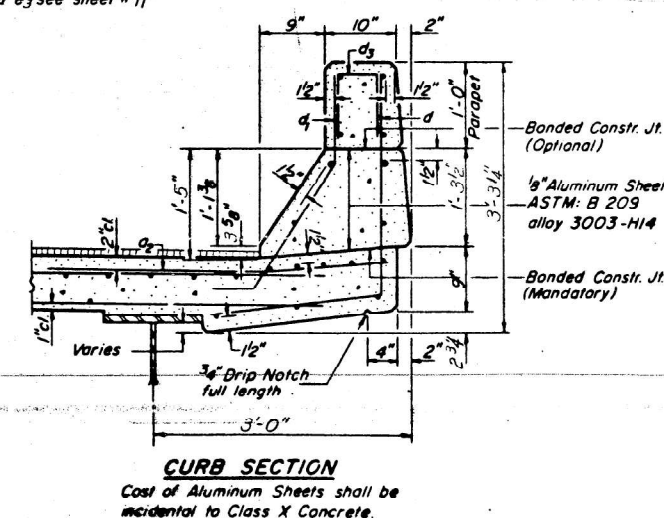
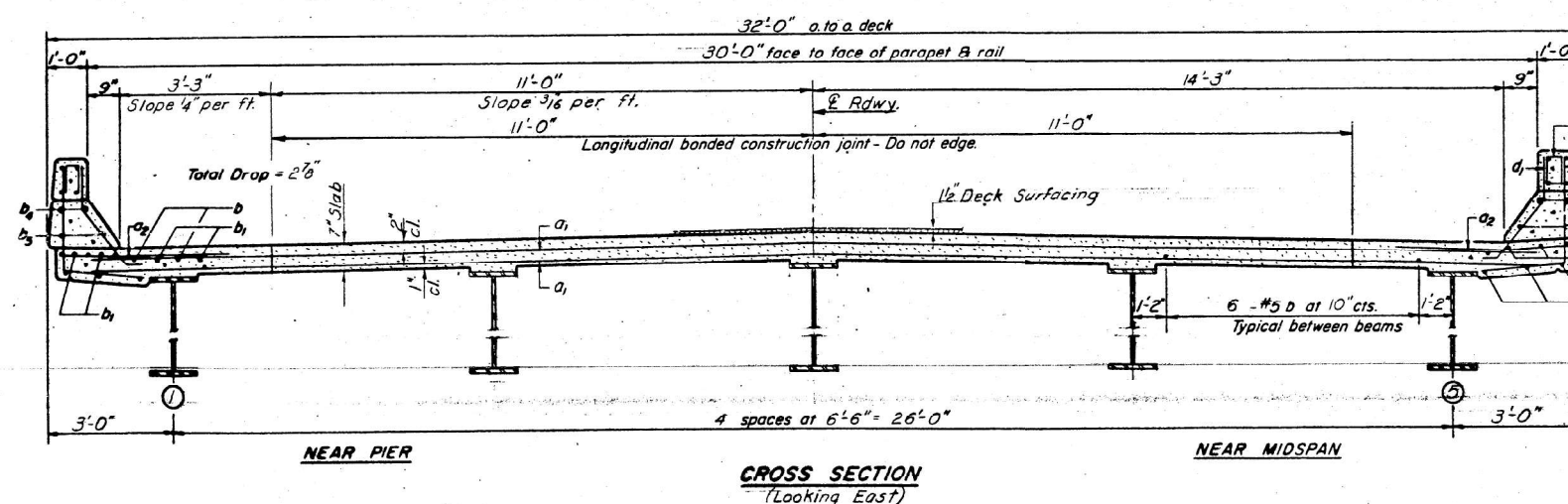
SCALE:	SHEET 3	OF 10	SHEETS	STA.	TO STA.
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	D7 BRIDGE PAINTING 2025-3	MACON	13	6
CONTRACT NO. 74D03				
ILLINOIS FED. AID PROJECT				

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BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
a ₁	1052	#5	30'-0"	————
a ₂	524	#6	4'-0"	————
a ₃	4	#6	23'-0"	————
b	715	#5	27'-0"	————
b ₁	96	#6	23'-5"	————
b ₂	32	#8	30'-8"	————
d ₁	32	#5	30'-1"	————
d ₂	8	#8	26'-6"	————
b ₃	8	#5	26'-6"	————
d	570	#4	4'-6"	J
d ₁	570	#5	3'-7"	J
x	58	#6	2'-9"	————
Reinforcement Bars			Lbs	6322
Class X Concrete			Cu Yds.	249



Parapet Reinforcement and Class X
Concrete are billed on sheet # 11

MAIN SPAN
SUPERSTRUCTURE
F.A.I. RT. 72 SEC. 58-65-HB
MACON COUNTY
STATION 430+55.06

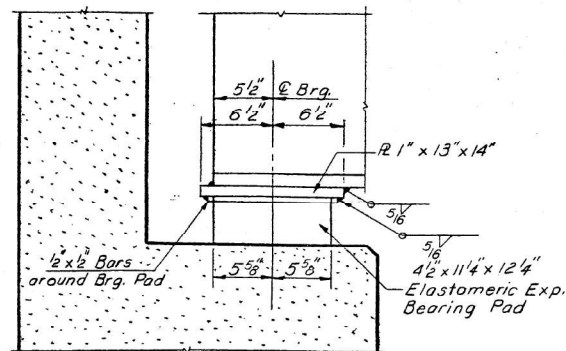
DESIGNED	Suresh T Desai
CHECKED	Harry W Banta
DRAWN	R. P. Summer
CHECKED	G. W. B.

Aug 4 1972
EXAMINED *[Signature]*
PASSED *W E Baumann*
APPROVED *Richard A. Goltzman*

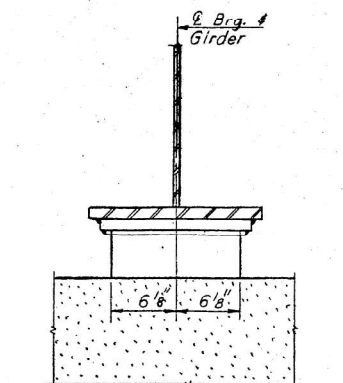
S-546-L (>30°) 4-22-68, 12-3-69

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

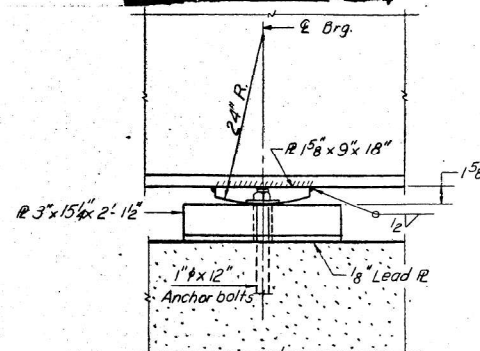
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 12
58-65	HB	MACON	62	27	18 SHEETS
F.A.I. 72		ILLINOIS	FED. AID PROJECT		



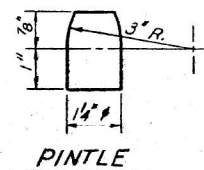
ELEVATION AT ABUTMENT



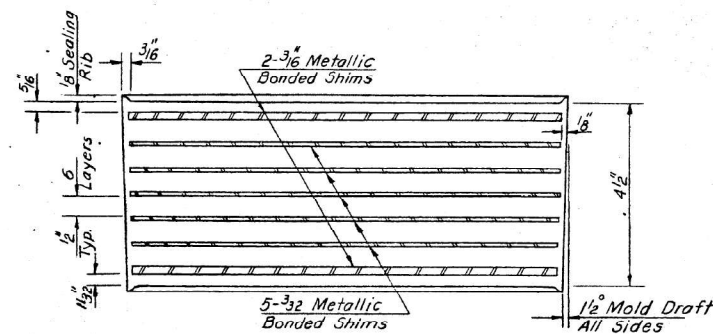
SECTION AT ABUTMENT



ELEVATION AT PIER



PINTLE



ELASTOMERIC BEARING
(Cost Incidental)

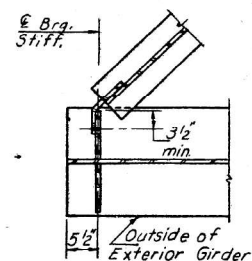
	0.4 Sp. 1	Pier	0.6 Sp. 2
I_a (in ⁴)	31581	93432	32759
I_c (in ⁴)	76073		80188
S_s (in ³)	1280	2853	1373
S_c (in ³)	1664		1782
Q (K/1)	0.783	1.473	0.791
M_e (K)	898	3679	967
F_{3e} (KSI)	8.4	15.5	8.5
S_e (K/1)	0.452		0.452
M_{3e} (K)	614		645
M_{4e} (K)	812	917	828
M_{imp} (K)	152	173	155
TOTAL (K)	1578	1090	1628
F_{3+5e} (KSI)	11.4	4.6	11.0
F_{5TOTAL} (KSI)	19.8	20.1	19.5
VR (K)	39.1		39.1

	W. Abut.	Pier	E. Abut.
R_e (K)	62.6	231.7	64.6
R_{4e} (K)	29.3	61.5	29.3
Imp. (K)	5.5	11.5	5.5
RTOTAL (K)	97.4	304.7	99.4

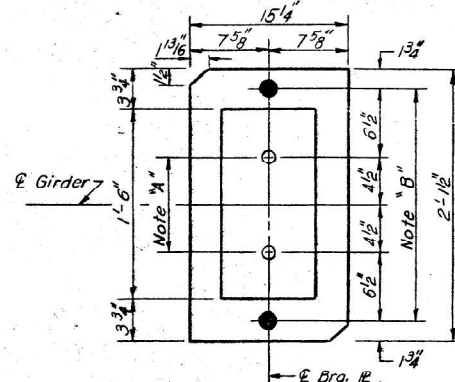
I_a and S_s are the moment of inertia and section modulus of the steel section.
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing F_3 .
VR is the maximum 1/4" impact shear range in span used to determine shear connector spacing

Note "A"
1/2" Holes - 1" deep in top R for 1/4" Pintles. Thread or press fit pintles in bottom R.

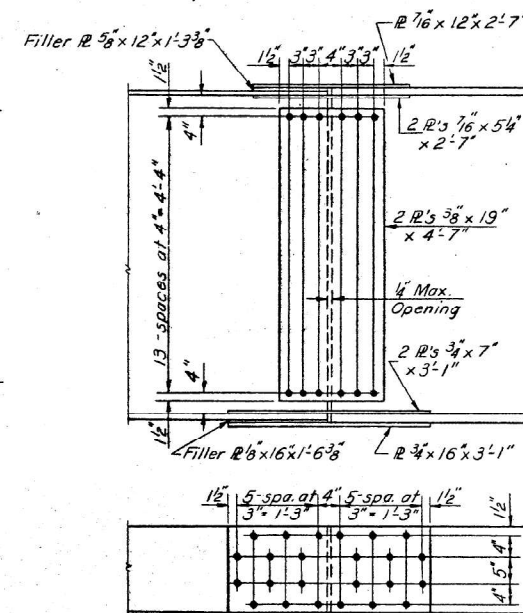
Note "B"
1/2" Holes for 1" Anchor Bolts - 2 1/2" x 5/16" R Washers under nut.



CROSS FRAME CONNECTION
DETAIL AT ABUTMENT

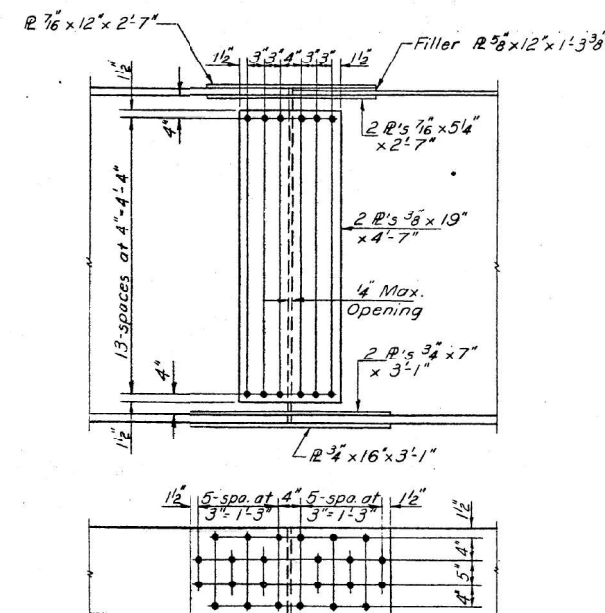


PLAN AT PIER



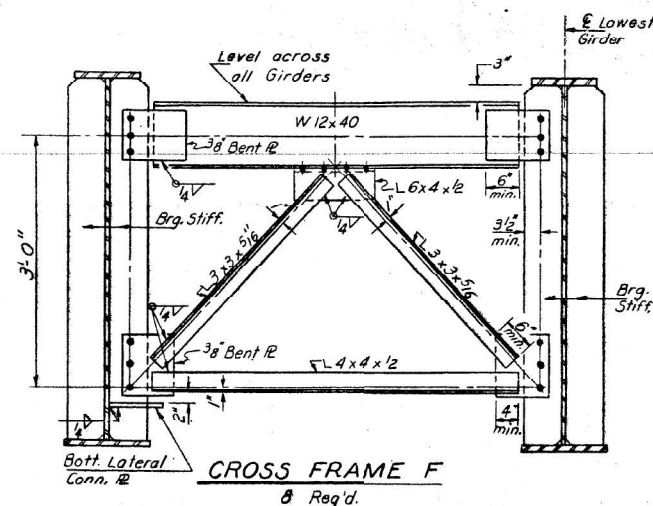
SPLICE #1

Use 3/8" H.S. Bolts Flanges
Use 3/4" H.S. Bolts Web

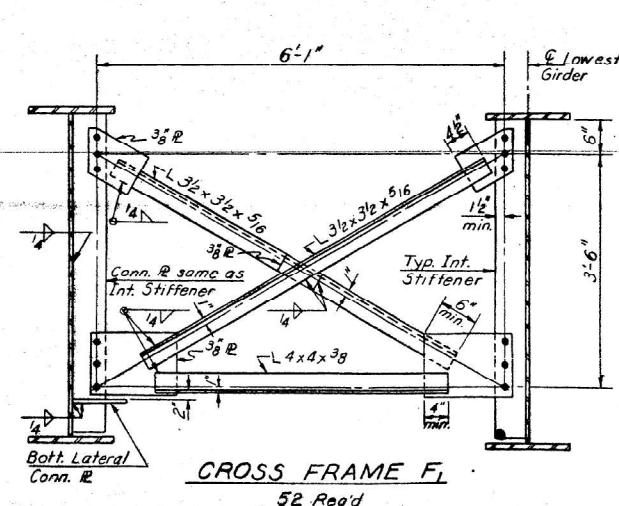


SPLICE #2

Use 3/8" H.S. Bolts Flanges
Use 3/4" H.S. Bolts Web



CROSS FRAME F
8 Req'd.



CROSS FRAME F1
52 Req'd

STRUCTURAL STEEL
F.A.I. RT. 72 SEC. 58-65-HB
MACON COUNTY
STATION 430+55.06

DESIGNED Suresh T. Desai
CHECKED Mary U. Baerlin
DRAWN R. P. Summer
CHECKED C. W. B.

EXAMINED
PASSED
APPROVED

USER NAME = jessica.hille	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/11/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

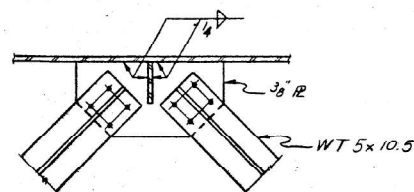
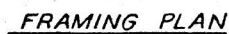
EXISTING STRUCTURE PLANS
058-0087

SCALE: SHEET 5 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	D7 BRIDGE PAINTING 2025-3	MACON	13	8
				CONTRACT NO. 74D03

ILLINOIS FED. AID PROJECT

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 13 18 SHEETS
E. & L. F.A.I. 72	58-65 HB	MACON	62	28	
PER. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		



DETAIL B

Loc. Gird.	£ Brg. W. Abut.	£ Splice #1	£ Brg. Pier.	£ Splice #2	£ Brg. E. Abut.
1	706.333	706.726	706.535	706.616	705.880
2	706.390	706.830	706.658	706.756	706.069
3	706.432	706.920	706.766	706.883	706.244
4	706.268	706.803	706.667	706.802	706.212
5	706.089	706.671	706.554	706.707	706.166



ELEVATION



CAMBER DIAGRAM

STRUCTURAL STEEL
F.A.I. RT. 72 SEC. 58-65-HB
MACON COUNTY
STATION 430+55.06

DESIGNED	Suresh T. Desai
CHECKED	Harry W. Baxter
DRAWN	R. P. Summer
CHECKED	G. W. B.

Aug. 4 1972

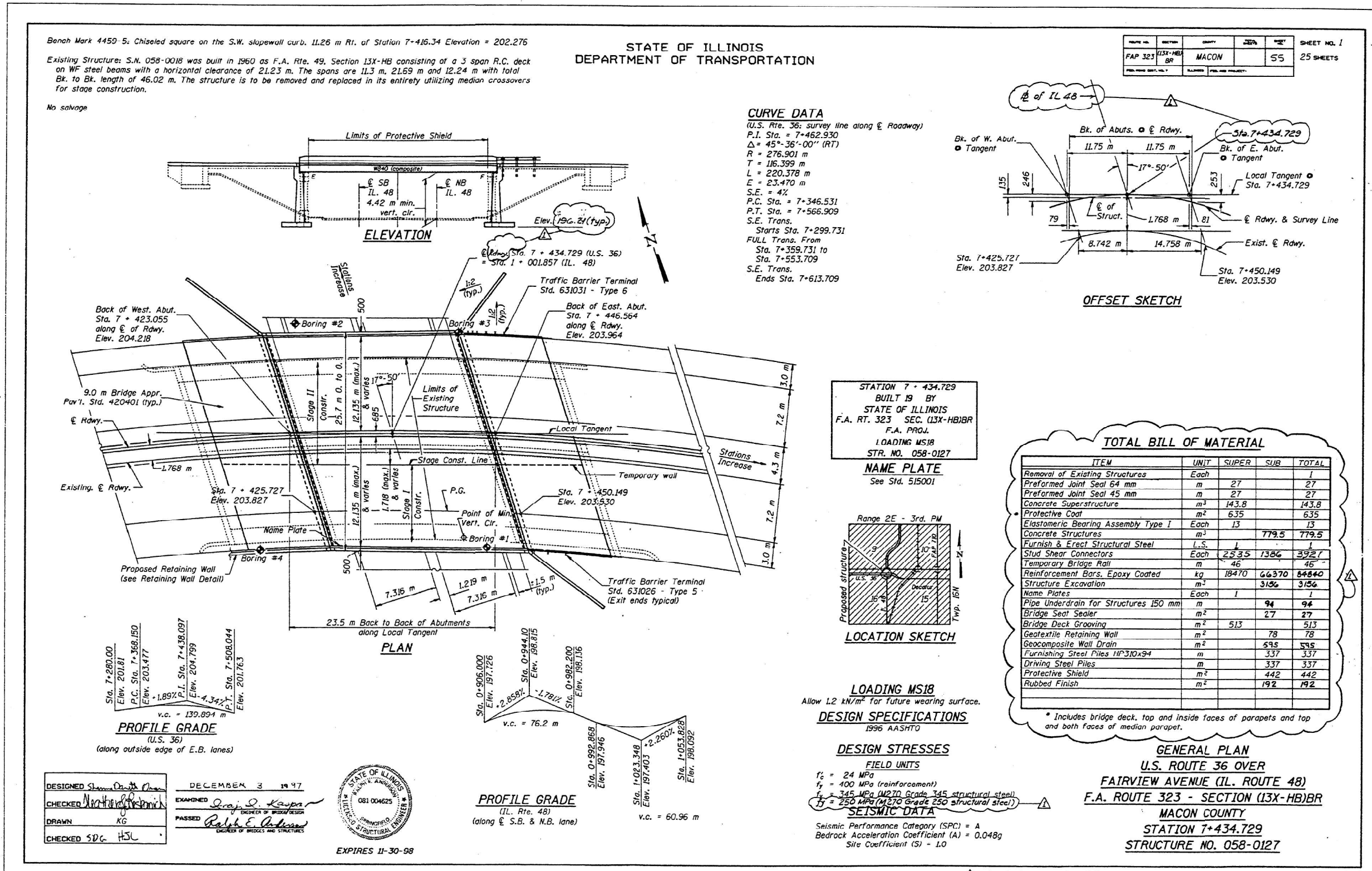
EXAMINED *[Signature]*
DESIGNER, ENGINEER AND TRAFFIC STRUCTURAL

PASSED *W E Baumann*
ENGINEER OF DESIGN

APPROVED *Richard H. Holterman*

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	D7 BRIDGE PAINTING 2025-3	MACON	13	9
		CONTRACT NO. 74D03		
		ILLINOIS	FED. AID PROJECT	

MODEL: Page 10 (Sheet)
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Revised 12-31-97 SDG

AS BUILT

USER NAME = jessica.hille	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/11/2024	DATE -	REVISED -

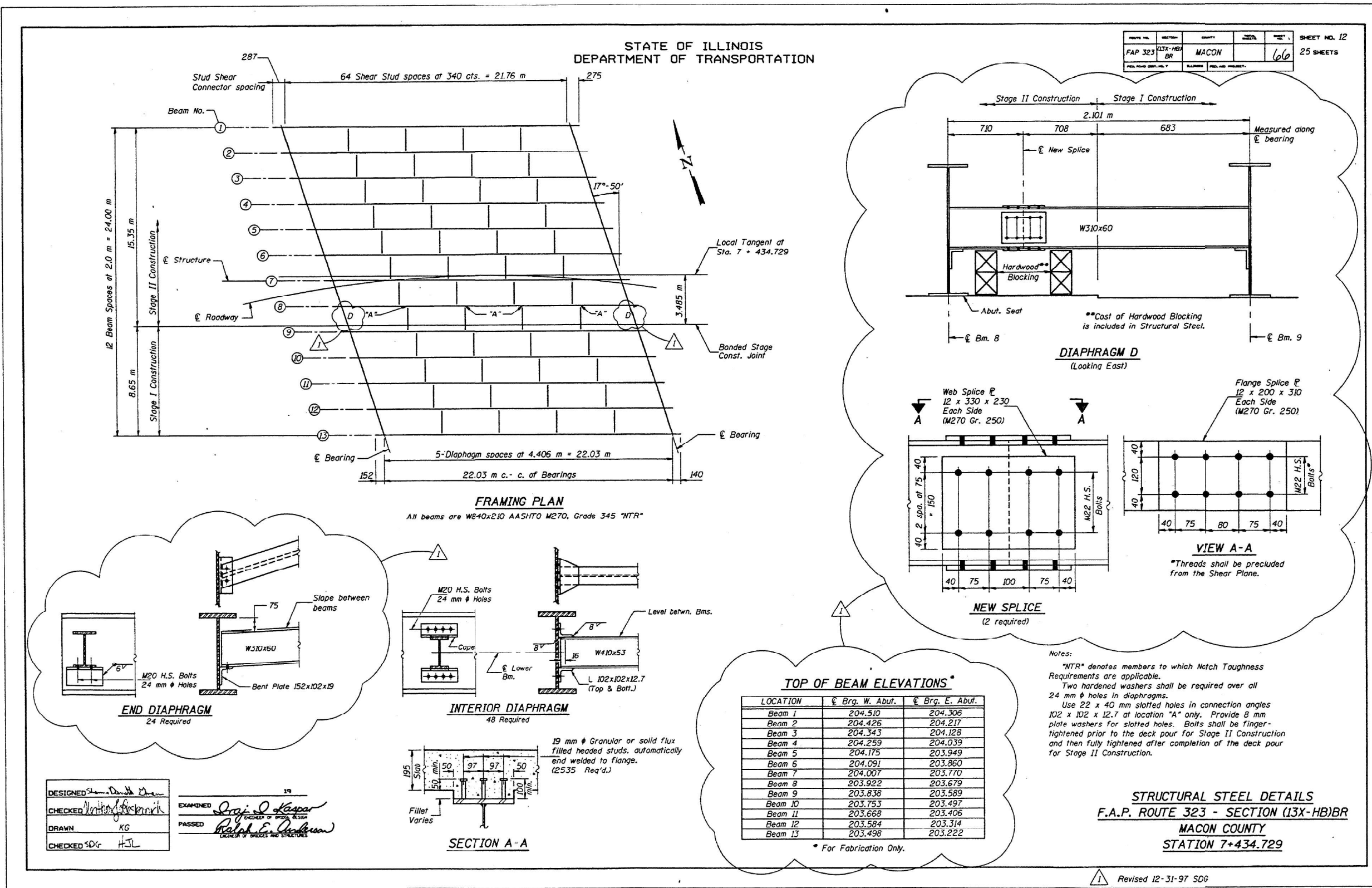
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
058-0127

SCALE: SHEET 7 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	D7 BRIDGE PAINTING 2025-3	MACON	13	10
CONTRACT NO. 74D03				
ILLINOIS FED. AID PROJECT				

MODEL: Page 12 (Sheet)
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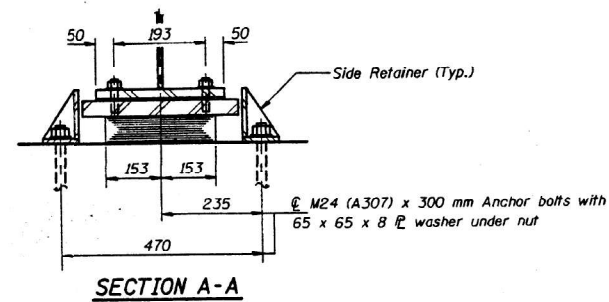
USER NAME = jessica.hille	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/11/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

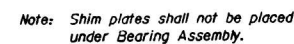
EXISTING STRUCTURE PLANS
058-0127

SCALE: SHEET 9 OF 10 SHEETS STA. TO STA.

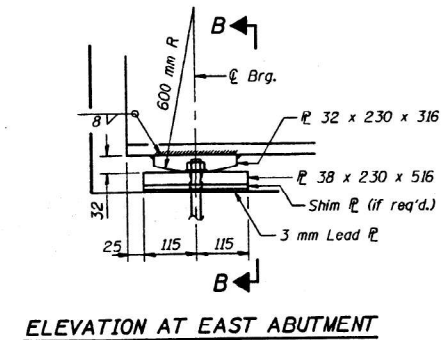
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	D7 BRIDGE PAINTING 2025-3	MACON	13	12
CONTRACT NO. 74D03				
ILLINOIS FED. AID PROJECT				



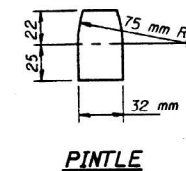
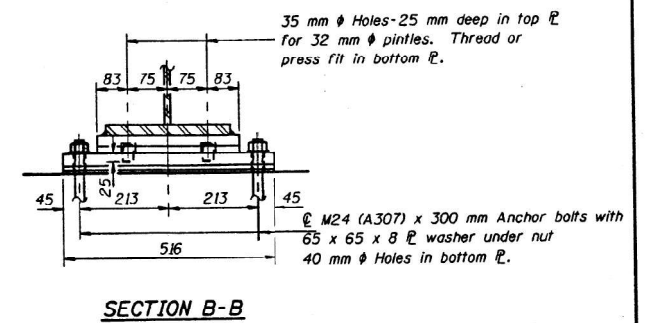
TYPE I ELASTOMERIC EXP. BRG.



Notes: Anchor bolts at fixed bearings may be built into the masonry.
See sheet #14 of 25 for Anchor Bolt installation.



FIXED BEARING



INTERIOR GIRDER MOMENT TABLE		0.5 Span
Is	(10^6 mm^4)	3110
Ic (n)	(10^6 mm^4)	8000
Ic (3n)	(10^6 mm^4)	5860
Ss	(10^3 mm^3)	7350
Sc (n)	(10^3 mm^3)	10600
Sc (3n)	(10^3 mm^3)	9580
W	(KN/m)	11.8
ME	(KN-m)	715
SE	(KN-m)	4.90
ME	(KN-m)	297
ME	(KN-m)	829
M (Imp)	(KN-m)	211
$S_{y(M+E-M[Imp])}$	(KN-m)	1732
Mt	(KN-m)	3568
Mu	(KN-m)	4372
fse non-comp	(MPa)	97
fse (comp)	(MPa)	31
fsy (% Imp)	(MPa)	163
fs (Overload)	(MPa)	292
VR	(kN)	209.0

I_s and S_s are the moment of Inertia and section modulus of the steel section used in computing f_s (Overload).

$I_c(n)$ and $S_c(n)$ are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.

$I_{c(s)}$ and $S_{c(s)}$ are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads. (see AASHTO 10.38)

VR is the maximum Live Load + Impact shear range in span.

The Plastic Moment capacity (M_u) is computed according to AASHTO 10.48.1 and 10.50.1.1.

f_s (Overload) is the sum of the stresses due to $M_D + M_{SD} + 5\% (M_L + M_{Imp})$.

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	13

BILL OF MATERIAL

BEARING DETAILS
F.A.P. ROUTE 323 - SECTION (13X-HB)BR
MACON COUNTY
STATION 7+434.729

	Abut.
R_0 (kN)	184
R_t (kN)	167
Imp. (kN)	42
P (Total) (kN)	393

DESIGNED <i>Shawn D. Smith</i>	DECEMBER 3 1997
CHECKED <i>Debra A. Kasper</i>	EXAMINED <i>Debra A. Kasper</i>
DRAWN KG	ENGINEER OF BRIDGE DESIGN
CHECKED SDG <i>HSL</i>	PASSED <i>Walter E. Anderson</i>
	ENGINEER OF BRIDGES AND STRUCTURES

I-2-E1 (M) 4-30-97