

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
010	3P	GREENE	13*	1
FAP 010		ILLINOIS	CONTRACT NO. 76T42	

* 13 + 3 = 16 TOTAL SHEETS

D-98-009-24



PROPOSED HIGHWAY PLANS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA

F.A.P. 10

2021 ADT = 2,000 (ACTUAL)
2024 ADT = 2,050 (ESTIMATED)
2044 ADT = 2,350 (ESTIMATED)
SU = 7.0 % MU = 17.5 %
DIR DIST = 50/50

FAP ROUTE 010 (IL 267)
SECTION 3P
PROJECT STP-82MQ(815)
BRIDGE PAINTING
GREENE COUNTY

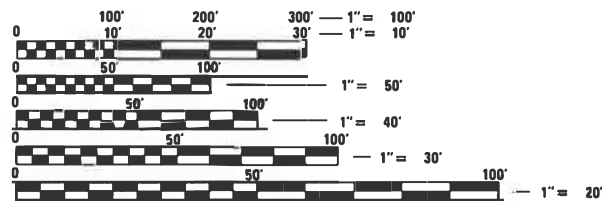
C-98-078-24

RANGE 10W, 3rd P.M.



LOCATION #1
SN 031-0015
IL 267 OVER
APPLE CREEK
LAT: 39.47126659 N
LONG: 90.20831494 W

LOCATION #2
SN 031-0016
IL 267 OVER
LICK CREEK SOUTH
LAT: 39.44866363 N
LONG: 90.20836014 W



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: CHERYL KEPLAR
PROJECT MANAGER: TONI MANN

CONTRACT NO. 76T42

LOCATION MAP

NOT TO SCALE

STRUCTURE LENGTH LOCATION #1 = 525'-2" = 0.099 MILES
STRUCTURE LENGTH LOCATION #2 = 194'-5" = 0.037 MILES



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Illinois.

Andrew Underwager 01/30/2024
ANDREW E. UNDERWAGER, P.E. DATE
License Number: 062-053211
My license renewal date is November 30, 2025.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *Andrew Underwager* 3/31/24
Kevin Brown
REGIONAL ENGINEER

March 22, 2024 *John A. Etk*
ENGINEER OF DESIGN AND ENVIRONMENT

March 22, 2024 *Steph McAnis*
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1. COVER SHEET
- 2. INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, COMMITMENTS, & PERTINENT INFORMATION
- 3. SUMMARY OF QUANTITIES
- 4. STAGE CONSTRUCT TRAFFIC CONTROL - LOCATION NO. 1
- 5. STAGE CONSTRUCT TRAFFIC CONTROL - LOCATION NO. 2
- 6-10B. EXISTING PLANS - SN. 031-0015
- 11-13A. EXISTING PLANS - SN. 031-0016

HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 701321-18 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701901-09 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETIALS

GENERAL NOTES

- 1. UTILITIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREAS:

UTILITIES

- FRONTIER COMMUNICATIONS
- GREENE COUNTY HIGHWAY DEPARTMENT
- METRO
- SCOTT MORGAN GREENE WATER COOPERATIVE

- 2. NO SURVEY WAS PERFORMED FOR THIS PROJECT AND THE PLANS WERE CREATED USING EXISTING PLANS.

- 3. THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING, INTELLIGENT TRANSPORTATION SYSTEMS (I.T.S.) UTILITIES, AND/OR ELECTRICAL CABLES ASSOCIATED WITH TRAFFIC SIGNALS WITHIN THE PROJECT LIMITS. IF ANY OF THESE EXIST WITHIN THE PROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

- 4. TWO (2) CHANGEABLE MESSAGE SIGNS SHALL BE REQUIRED FOR EACH LOCATION. THEY SHALL BE PLACED 2 WEEKS PRIOR TO ANY LANE CLOSURE. THE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED AS DIRECTED BY THE ENGINEER.

- 5. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUBCONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINING GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G. MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 681-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.

- 6. THE SSPC-QP1 AND SSPC-QP2 CERTIFICATIONS ARE REQUIRED FOR THIS CONTRACT.

- 7. FOR LOCATION 1 (SN 031-0015) CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING (SSPC-SP10). THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING (SSPC-SP10) SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL STEEL SURFACES SHALL BE GRAY MUNSELL NO. 5B 7/1.

- 8. FOR LOCATION 2 (SN 031-0016) CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING (SSPC-SP10). THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING (SSPC-SP10) SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL STEEL SURFACES SHALL BE GRAY MUNSELL NO. 5B 7/1.

COMMITMENTS

NONE

REV. - MS

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HRGreen.com
 Illinois Professional Design Firm
 #184-001322

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PLOT SCALE =	DRAWN - WJH	REVISED -
PLOT DATE = 1/12/2024	CHECKED - AEU	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES,
 COMMITMENTS, & PERTINENT INFORMATION**

SHEET NO. OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
010	3P	GREENE	13	2
			CONTRACT NO. 76742	
		ILLINOIS	FED. AID PROJECT	

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

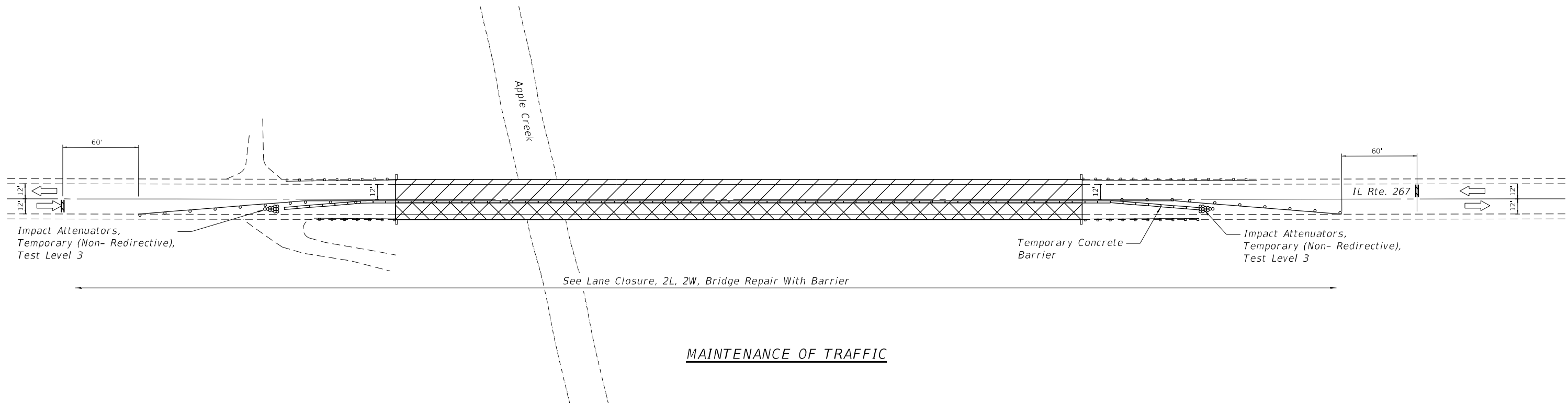
SUMMARY OF QUANTITIES

SHEET NO. OF SHEETS

CONSTRUCTION CODE					
80% FEDERAL 20% STATE RURAL STRUCTURE					
GREENE	GREENE				
SN 031-0015	SN 031-0016				
0047	0047				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	2.5	2.5
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	12	6	6
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56	28	28
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,116	734	382
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4	2	2
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1	
Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1		1
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1	
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1		1

REV. - MS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
010	3P	GREENE	13	3
			CONTRACT NO. 76T42	
		ILLINOIS	FED. AID PROJECT	



LEGEND

- Work Area Under Bridge
- Work Under Bridge and Contractor Staging Area

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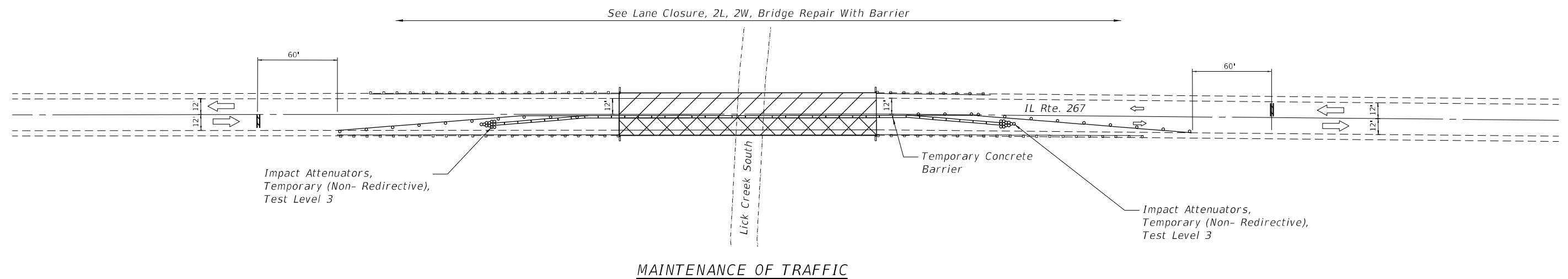
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION TRAFFIC CONTROL - LOCATION NO. 1
STRUCTURE NO. 031-0015

SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
010	3P	GREENE	13	4
CONTRACT NO. 76742				
ILLINOIS		FED. AID PROJECT		



MAINTENANCE OF TRAFFIC

LEGEND

- Work Area Under Bridge
- Work Under Bridge and Contractor Staging Area

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION TRAFFIC CONTROL – LOCATION NO. 2
STRUCTURE NO. 031–0016**

SHEET NO. 1 OF 1 SHEETS

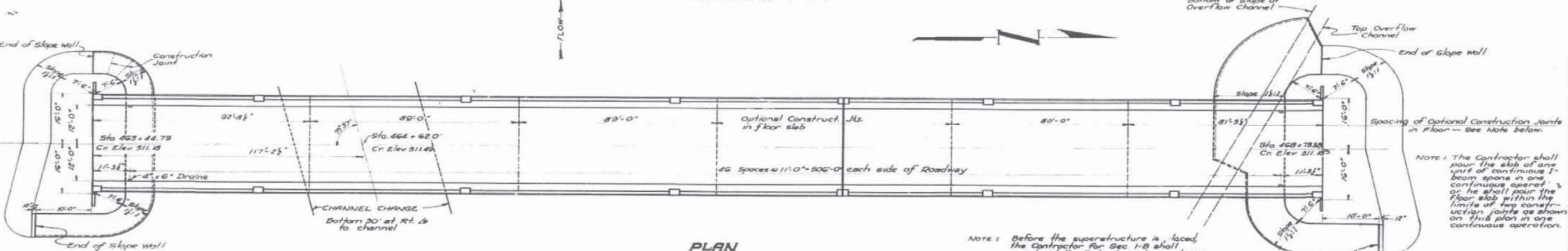
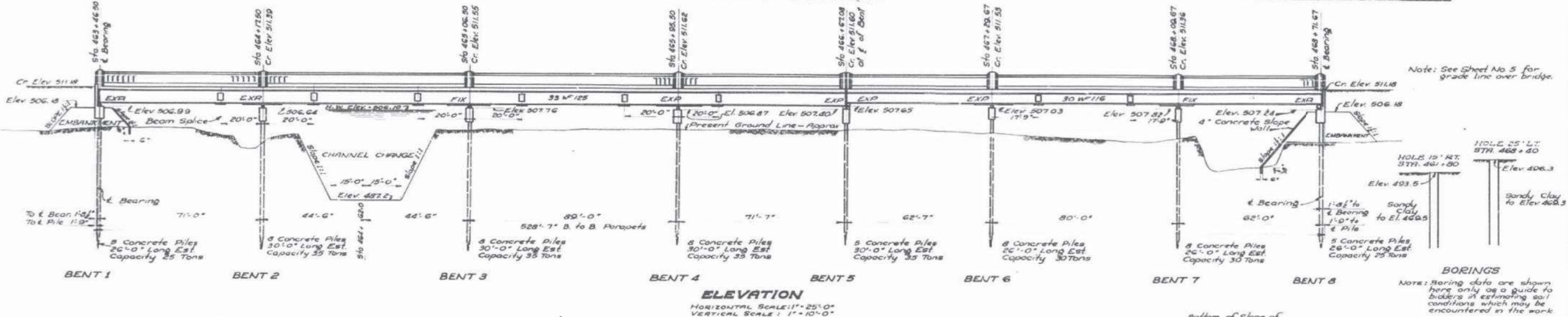
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
010	3P	GREENE	13	5
CONTRACT NO. 76T42				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 164	Greene	23	12

SHEET NO. 1
6 SHEETS

B.M. #39 SPIKE AND MARKER IN 15" HEDGE
70' LT STA 463 + 75 ELEV 503.94
NO EXISTING STRUCTURE



Note: Slope walls to be reinforced with #4 x #4 pipe wire mesh (6" x 6") spaced 6" at all joints and splices. Coat of wire mesh to be included in the unit price and for slope wall. Construction joints throughout of 9'-0" c/c. Curbs to be constructed 18" below existing ground surface. Class X Concrete in slope wall.

GENERAL NOTES

Concrete shall be Class X throughout. The floor shall be finished in accordance with Art. 57.3(e) of the Standard Specifications.
All aggregate which is to be used in handrails must be absolutely free of chert, flint, limonite, lignite, and soft sandstone.
Rivets 1/2" holes 1/2" except as noted.
Ribbed bolts of an approved type may be used in place of field rivets provided all holes are subpunched 3/8" and reamed either after all steel has been completely assembled in the shop or after erection. Ribbed bolts shall comply with the following specifications: Carbon 0.48% to 0.24%; manganese 0.75% to 1.00%; ultimate strength, not less than 70,000* per sq. inch.
Anchor bolts shall be set before riveting diaphragm connections of bents.
Structural steel shall be painted with one shop coat of blue lead paint and two field coats of white lead paint.
Paint to be furnished by the contractor.
Steel in contact with concrete and contact surfaces of shop welded or riveted structural steel shall not be painted.
Rollers included with the weight of structural steel; see Special Provisions for material and painting. The edges of all plates adjacent to rollers shall be rolled, cut square or finished, but the width of plates shall not exceed the specified amount.
Welding shall comply with the Specifications of the American Welding Society for fusion welding of Highway and Railway Bridges.
Inspection of Structural Steel by the Department before painting.

NOTE: Before the superstructure is placed, the Contractor for Sec. 1-B shall construct the Embankments as shown from Channel Excavation in accordance with Sec. 13 of the Specifications. Both mechanical compaction and water soaking shall be used. (See Special Provisions)
Channel Excavation: 650 Cu Yds. between limits of R.O.W. for Embankment. (Balance of Channel change to be made by Contractor for Sec. 3-A)

TOTAL BILL OF MATERIALS

ITEM	SEC. 1-B	SEC. 1-D	SEC. 1-F	TOTAL
Class X Concrete	Cu Yds	74.9	482.4	517.3
Handrail Concrete	Cu Yds		49.6	49.6
Reinforcement Bars	Lbs.	4840	88340	93180
Class X Concrete Slope Wall	Sq Yds	190		190
Structural Steel*	Lbs.		387,800	387,800
Concrete Piles 30' Long (16")	Lin Ft	870		870
Concrete Piles 26' Long (16")	Lin Ft	678		678
Test Piles (16")	Each	3		3
Name Plates	Each		1	1
Channel Excavation	Cu Yds	650		650
Water Applied	Units of 1000 Gal. Units	19		19

* Includes rollers, rockers, expansion guards and lead plates, all of which are to be paid for at the same unit contract price as structural steel.

STANDARD	COMPUTED	H.E. Eckles
	CHECKED	M. J. Aldinger
	DRAWN	H.E. Henry D. Toff
	CHECKED	M. J.
SPECIAL	ASSEMBLED	
	CHECKED	

EXAMINED	1-6-	1938
	H. F. Burch	ENGINEER
PASSED		
APPROVED		

Drainage Area - 96000 Acres
Assume C Trapezoidal Formula = 0.5
Opening provided below H.W 3180 sq Ft
Required by Formula = 2725 Sq Ft

PROJECT 310-B
F.A. ROUTE 164 - SEC. 3-B-D-F
GREENE COUNTY
STA. 464 + 62

1-15 LOADING

FOR INFORMATIONAL USE ONLY

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 031-0015

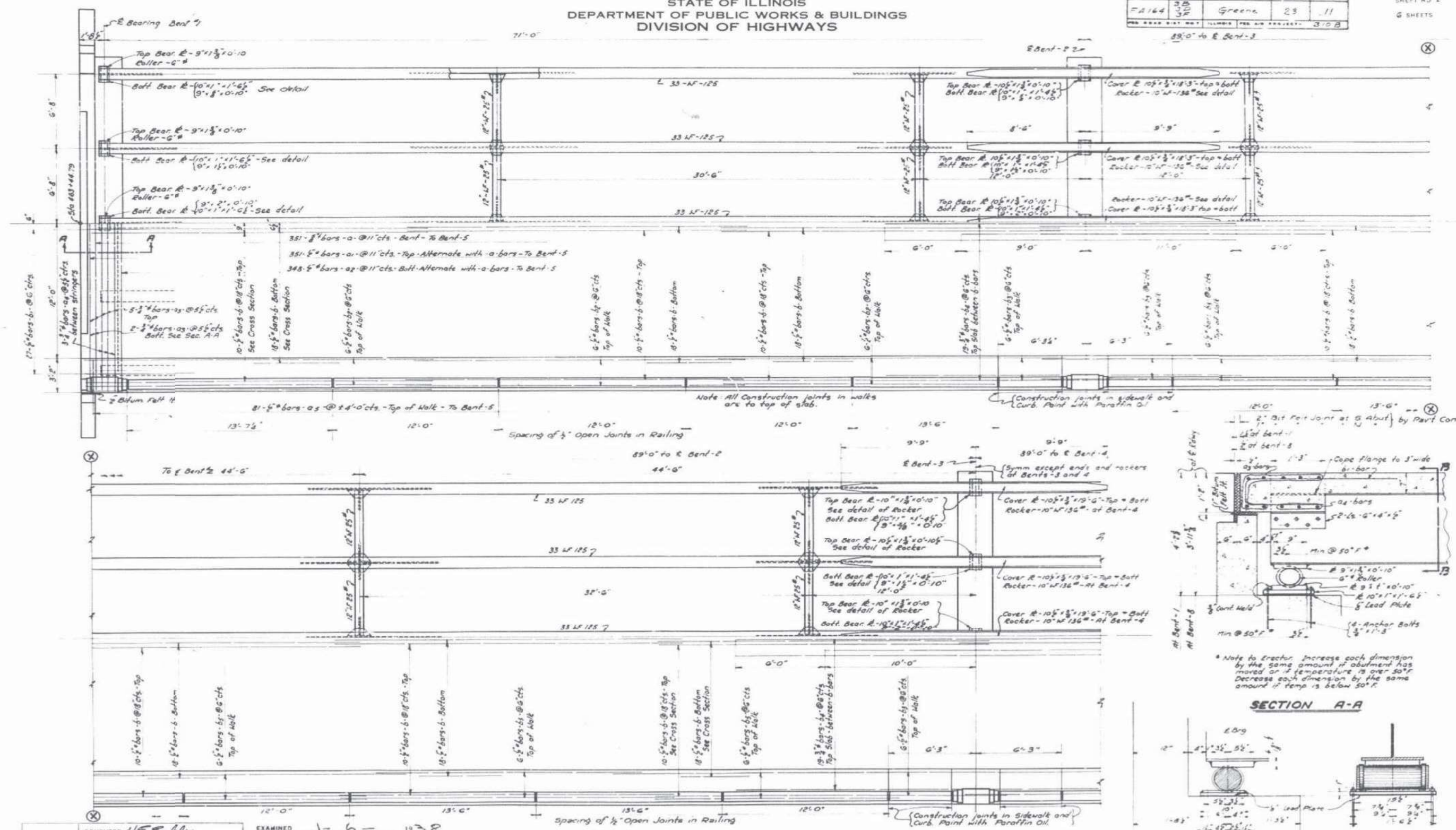
SHEET NO. 1 OF 5 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
010	3P	GREENE	13	6
ILLINOIS			CONTRACT NO. 76742	
			FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F-164	3P	Greene	23	11
DATE	DATE	ILLINOIS	PER AIR PROJECT	310-B

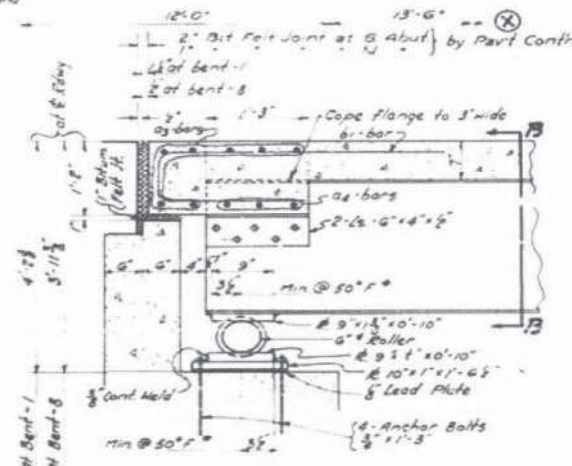
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OF SHEETS



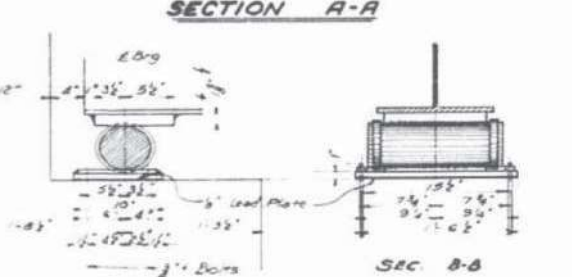
HALF PLAN BENTS 1 TO 5
scale - 1/4" = 1'-0"

STANDARD	COMPUTED	H.E. Eckler
CHECKED		Max. Schaefer
DRAWN		H.E. Eckler & Associates
CHECKED		M.S.
SPECIAL	ASSEMBLED	
CHECKED		

EXAMINED	1 - 6 - 1938
	H. F. Ruesch
PASSED	
APPROVED	



Note to Erector: Increase each dimension by the same amount if abutment has moved or if temperature is over 50°F. Decrease each dimension by the same amount if temp is below 50°F.



BEARING DETAILS AT BENTS 1 & 5
PROJECT 310-B
F.R. ROUTE-164 SECTION 3-D-F
GREENE CO.
STA. 464 + 62

FOR INFORMATIONAL USE ONLY

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PLOT DATE	= 1/12/2024
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DESIGNED	- RAT	REVISED	-
CHECKED	- AEU	REVISED	-
DRAWN	- WJH	REVISED	-
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 031-0015

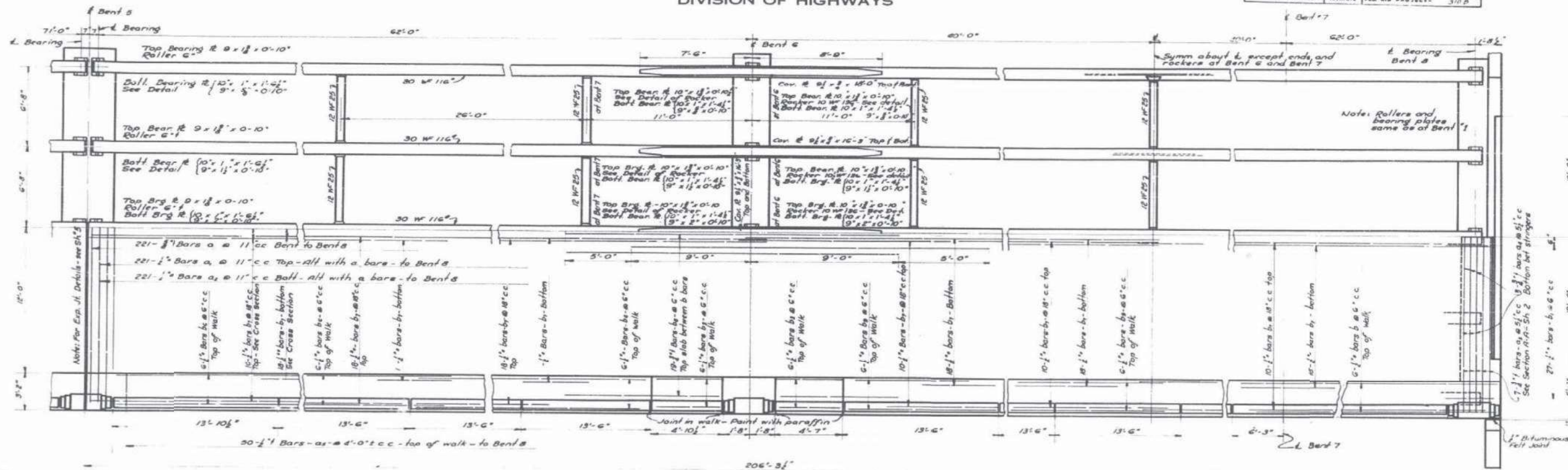
SHEET NO. 2 OF 5 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
010	3P	GREENE	13	7
ILLINOIS			CONTRACT NO. 76742	
			FED. AID PROJECT	

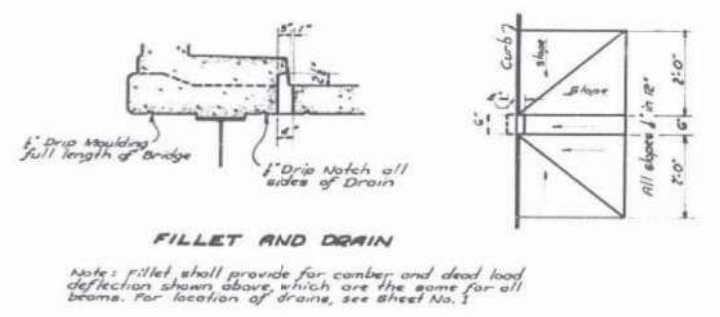
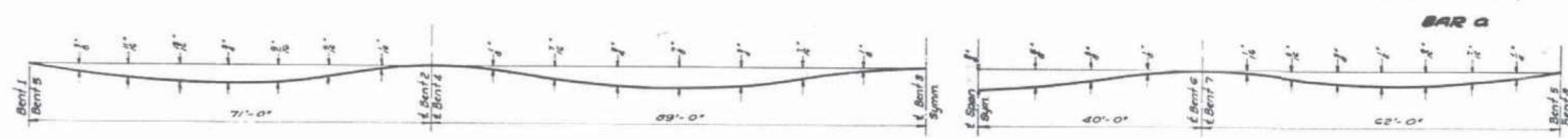
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROAD DIST. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 164	3D	Greene	23	13
FED. AID PROJECT NO.	310-B			

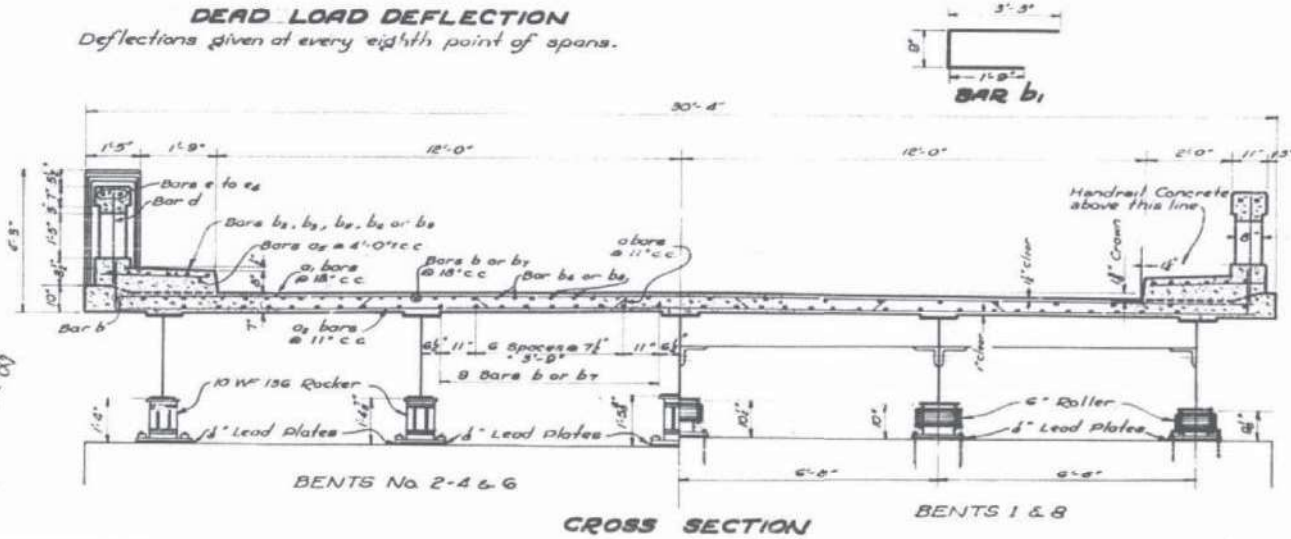
SHEET NO. 13
OF SHEETS



PLAN-BENT 5 TO BENT 8
Scale: 1/4" = 1'-0"



STANDARD	COMPUTED	EXAMINED
	H.E. Egler	1-6-1938
	CHECKED	M. J. Sullivan
	DRAWN	H.E. Egler
	CHECKED	M. J.
SPECIAL	ASSEMBLED	APPROVED
	CHECKED	H. F. Bennett



BILL OF MATERIAL FOR SUPERSTRUCTURE

BARS IN THE SLAB				BARS IN HANDRAIL & WALK			
Bar	No.	Size	Length	Bar	No.	Size	Length
a	572	5/8"	32'-3"	b ₁	84	1/2"	22'-0"
a ₁	572	1/2"	25'-9"	b ₂	120	"	4'-3"
a ₂	569	1/2"	27'-0"	b ₃	96	"	20'-0"
a ₃	18	3/4"	30'-0"	b ₄	60	"	14'-0"
a ₄	28	3/4"	0'-0"	b ₅	48	1/2"	18'-0"
				c ₁	262	1/2"	2'-9"
				c ₂	758	1/2"	2'-9"
b	780	1/2"	20'-3"	e	28	"	3'-0"
b ₁	108	1/2"	5'-9"	f	40	"	4'-3"
b ₂	116	3/4"	26'-0"	g	92	"	13'-0"
b ₃	560	1/2"	21'-0"	h	48	"	11'-0"
b ₄	76	3/4"	23'-0"	i	8	"	1'-6"

* Includes rollers, rockers, and lead plates which are to be paid for at the same contract unit price as structural steel.

PROJECT 310-B
F.A. RT. 164 SECT. 3-D-F
GREENE COUNTY
STA. 464 + 62

FOR INFORMATIONAL USE ONLY

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HRG PROJ. CONTACT:
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CHECKED	AEU
DRAWN	WJH
CHECKED	AEU
PLOT DATE	1/12/2024

DESIGNED	RAT	REVISED	-
CHECKED	AEU	REVISED	-
DRAWN	WJH	REVISED	-
CHECKED	AEU	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

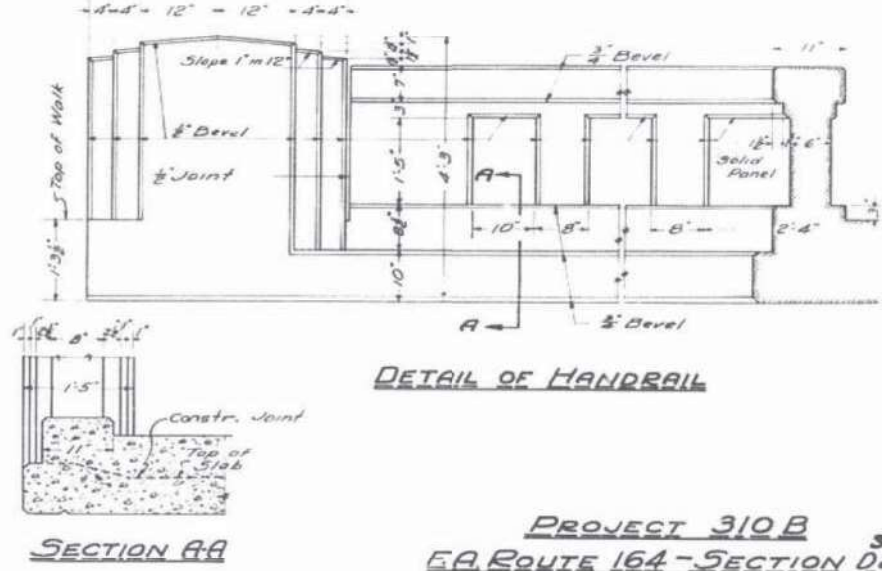
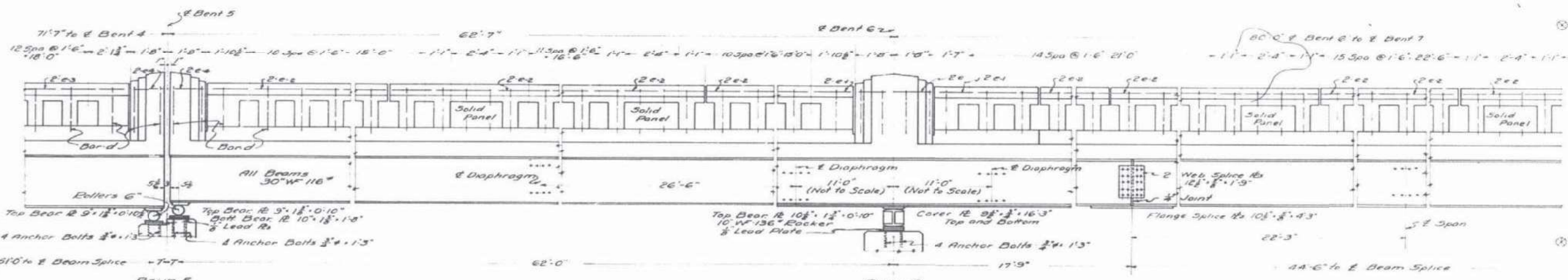
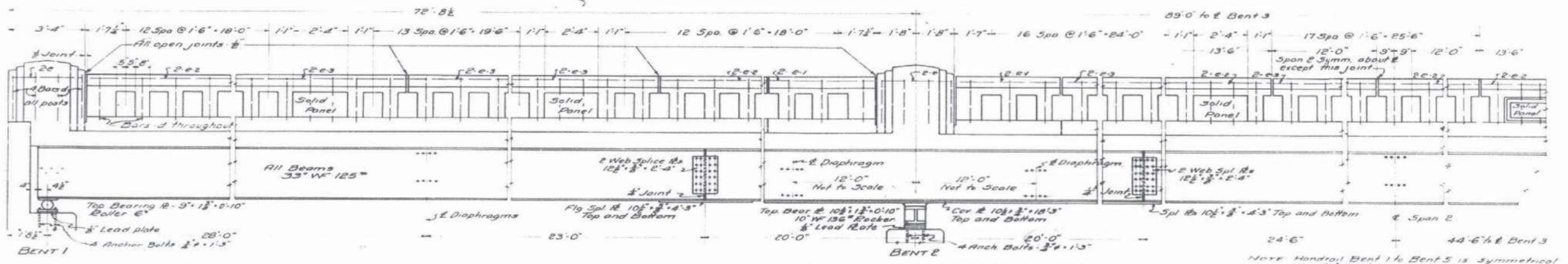
EXISTING PLANS
STRUCTURE NO. 031-0015
SHEET NO. 3 OF 5 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
010	3P	GREENE	13	8
ILLINOIS			CONTRACT NO. 76742	
			FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3B 3P	Greene	23	14

PROJECT: 310B
SHEET NO. 4
6 SHEETS



COMPUTED	H.E. Schlee
CHECKED	M. J. Schlimmer
DRAWN	H.E. Schlee
CHECKED	M. J.
SPECIAL	ASSEMBLED
CHECKED	

EXAMINED	1-6-1938
PASSED	[Signature]
APPROVED	[Signature]

NOTES:
All top bearing plates welded to beams with two 3/8" continuous welds.
All open joints in rail 1/2" girth all vertical joints in walk with paraffin oil.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 031-0015

SHEET NO. 4 OF 5 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
010	3P	GREENE	13	9

ILLINOIS
CONTRACT NO. 76742
FED. AID PROJECT

PROJECT NO.: 27073.08
HRG PROJ. CONTACT:
FILE NAME: 2023.08_76742_SPT_EX-Plan_03-005_04.dwg
PLOT DRIVER: L_Pdf.dwg
PEN TABLE: plotlabel.tbl

HRGreen.com
Illinois Professional Design Firm
#184-001322

USER NAME =	rautejada	DESIGNED -	RAT	REVISED -	
		CHECKED -	AEU	REVISED -	
PLOT SCALE =		DRAWN -	WJH	REVISED -	
PLOT DATE =	1/12/2024	CHECKED -	AEU	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3A	Greene	23	15

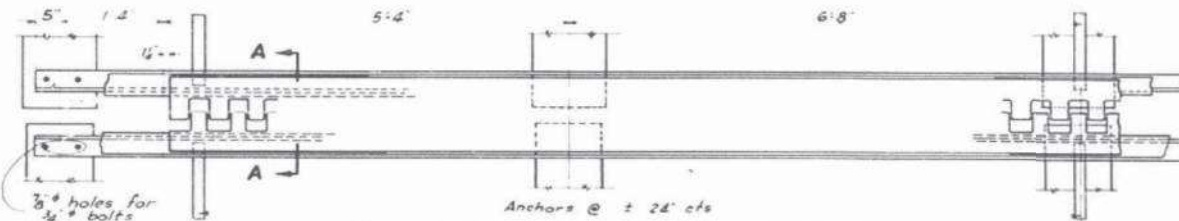
SHEET NO. 5
6 SHEETS

* Dimensions marked thus are computed for a normal temperature of 50°F. These dimensions shall be corrected for any variation from 50°F at time of erection.

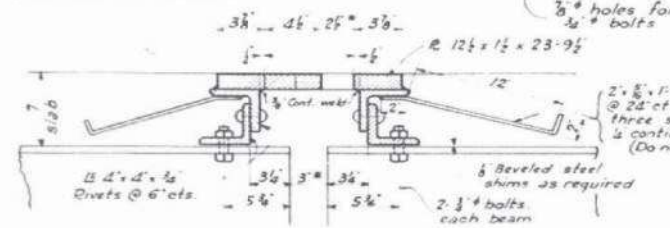
Angles and plates used in expansion guards shall be structural steel A.S.T.M. Desig. A-7 with 0.2% copper added.

The weight of structural steel in expansion guards is included in item "Structural Steel" in Bill of Material.

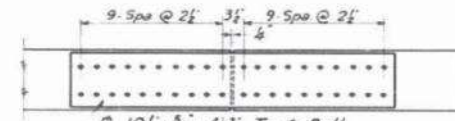
Top of Expansion guards to conform to top of slab and sidewalk



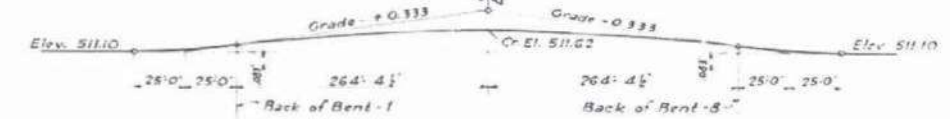
ROADWAY EXPANSION GUARD AT BENT No 5



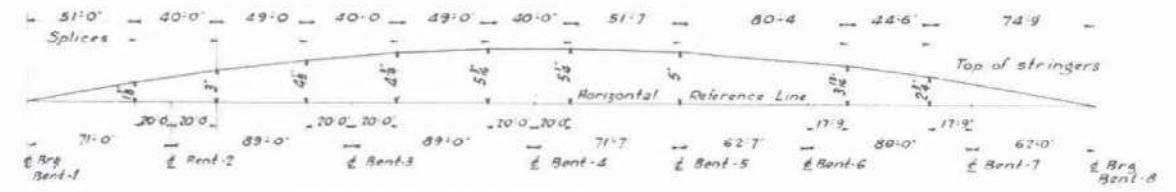
SECTION-AA



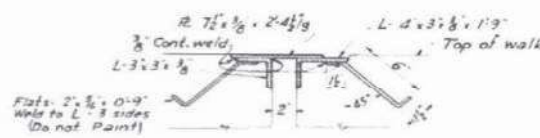
FLANGE SPICE DETAIL FOR WEB SPICES SEE SH. #4



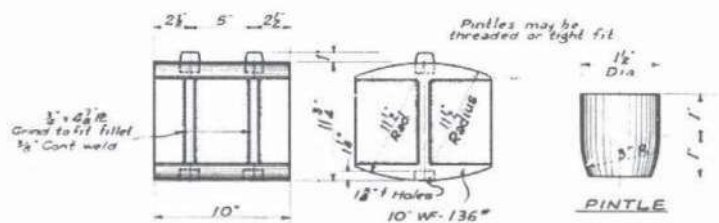
BRIDGE CAMBER DIAGRAM



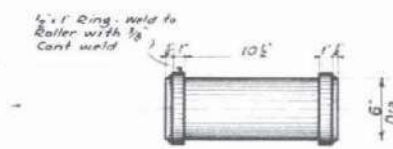
FABRICATION DIAGRAM FOR ALL STRINGERS



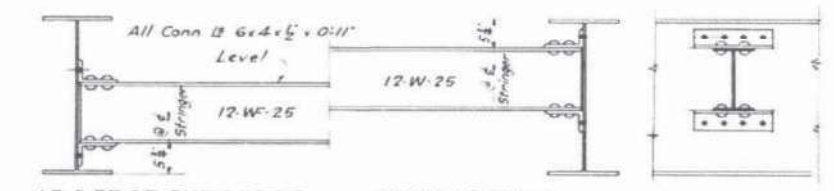
SECTION



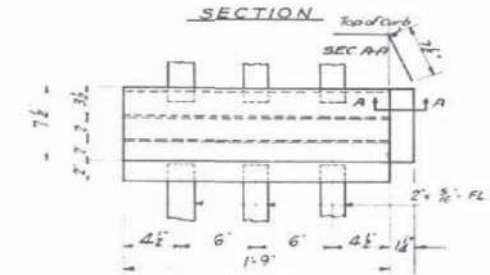
DETAIL OF ROCKER - BENTS 2-4&6
15-REQUIRED



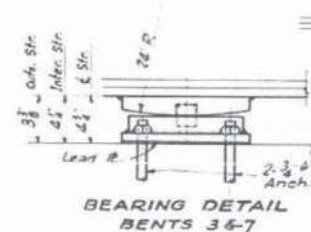
DETAIL OF ROLLER AT BENTS 1-5&8
20-REQUIRED



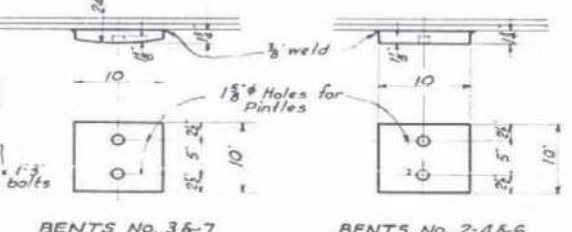
DETAIL OF DIAPHRAGMS



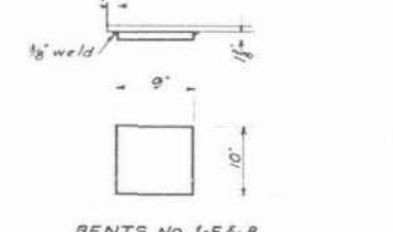
S'DW'K. EXPANSION GUARD DETAILS



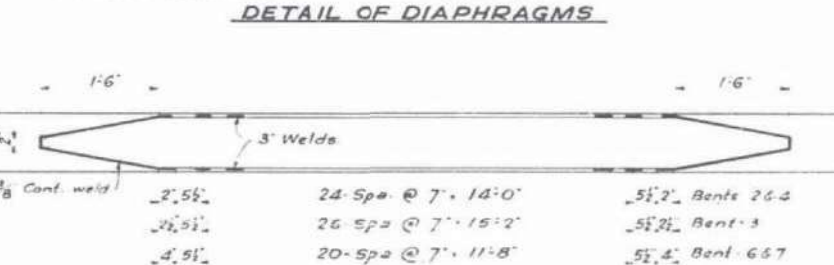
BEARING DETAIL BENTS 3&7



TOP BEARING PLATES

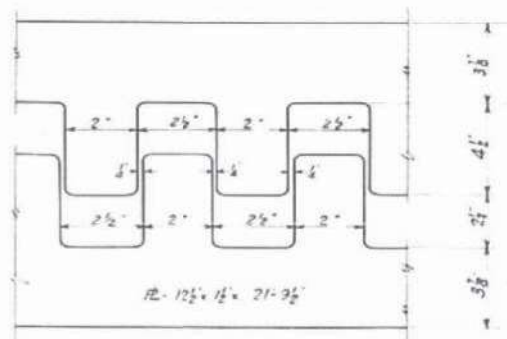


BOTTOM BEARING PLATES



DETAIL OF COVER PLATES

Note: - Rollers, Rockers & Lead Plates Estimated weight - 4950 lbs.



DET. OF EXPANSION R.

BENTS No. 3&7
10 REQUIRED

BENTS No. 2-4&6
15 REQUIRED

BENTS No. 1-5&8
20 REQUIRED

BENTS No. 2-3-4-6&7
25-REQUIRED

BENTS No. 1-5&8
20-REQUIRED

STANDARD	COMPUTED	A.E. Eakles	EXAMINED	1-6-1938
	CHECKED	Max. Kling		
	DRAWN	H.E. Fisher		
	CHECKED	M.J.		
SPECIAL	ASSEMBLED			
	CHECKED			

APPROVED
Hunt Liberman
CHIEF ENGINEER

PROJECT 310-B
F.A.R.T.E. 164 - SECTION 3-D&F
GREENE COUNTY
STA. 464+62

FOR INFORMATIONAL USE ONLY

HRG PROJECT NO.: 20073.08
HRG PROJ. CONT. NO.:
FILE NAME: 20073.08_76142_Sht_3-D&F-Plan_03-005.05.dgn
PLOT DRIVER: L:\pdr\dwgplotfcg
PEN TABLE: plotlabel.tbl



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DESIGNED	RAT
CHECKED	AEU
PLOT SCALE	
PLOT DATE	1/12/2024

DESIGNED	RAT	REVISED	
CHECKED	AEU	REVISED	
DRAWN	WJH	REVISED	
CHECKED	AEU	REVISED	

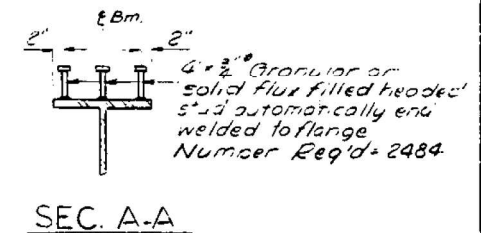
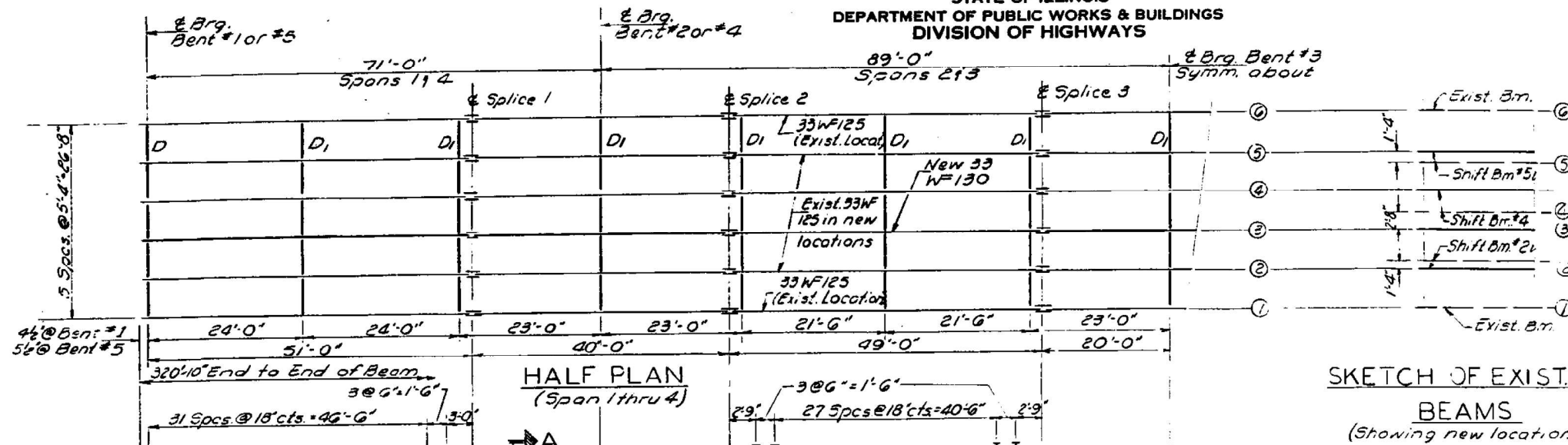
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 031-0015
SHEET NO. 5 OF 5 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
010	3P	GREENE	13	10
ILLINOIS			CONTRACT NO. 76742	
FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

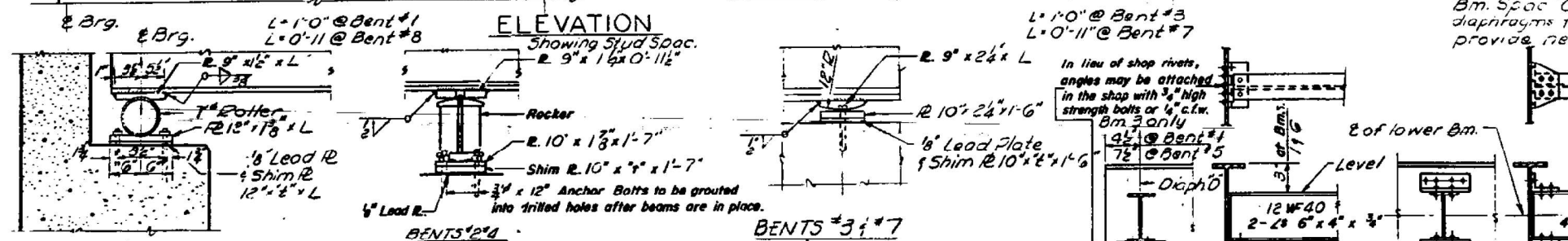
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
164	3BY-2	Greene	35	21
SHEETS				



SHIM PLATES
TABLE OF "t" DIMENSIONS

Location	Bent #1	Bent #2	Bent #3	Bent #4	Bent #5	Bent #6	Bent #7	Bent #8
Bm #2	0"	1"	1"	1"	1"	1"	1"	0"
Bm #3	2"	3"	1"	3"	2"	3"	1"	2"
Bm #4	1/2"	1 1/2"	1 1/2"	1 1/2"	1/2"	1 1/2"	1 1/2"	1/2"
Bm #5	0"	1"	1"	1"	1"	1"	1"	0"

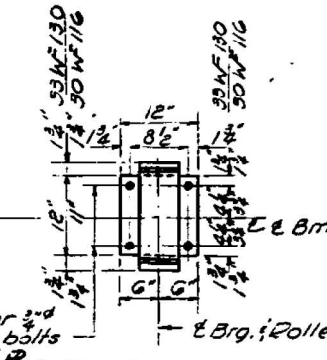
SKETCH OF EXIST. BEAMS
(Showing new locations)



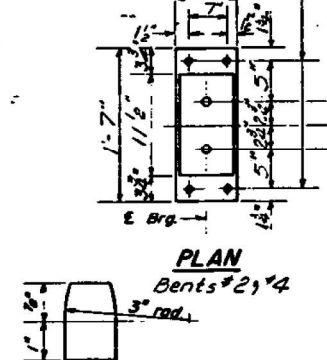
Note "A"
(25 New diaphragms Dead to fit 5'-4" Bm. Spac. Cut off the 40 Existing diaphragms to fit 5'-4" Bm. Spac. and provide new connecting angles.)

A = 11 1/2" for 30 WF116
A = 12 1/2" for 33 WF130
A = 10 1/2" Exist. Bms.

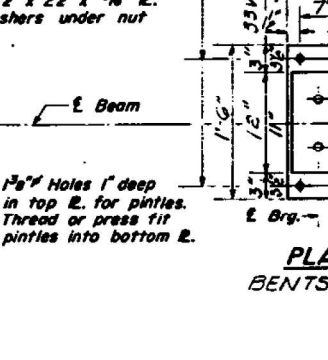
SECTION AT BENTS #1 & #8



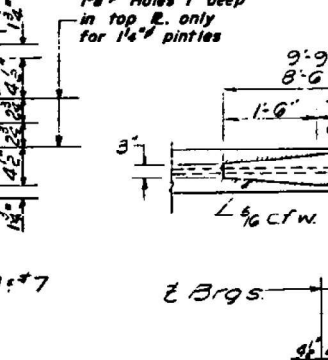
SECTION AT BENTS #2 & #7



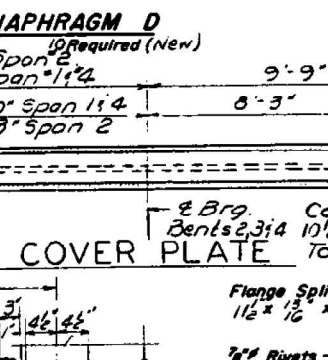
PLAN BENTS #2 & #4



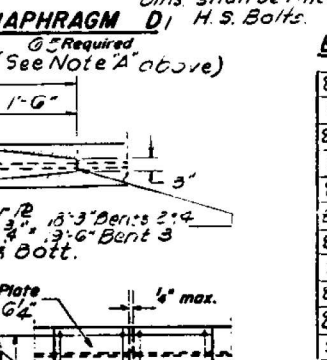
PLAN BENTS #3 & #7



PLAN AT BENTS #1 & #5 (For New Beam #3)



DETAIL OF ROLLER AT BENTS #1, #5 & #8



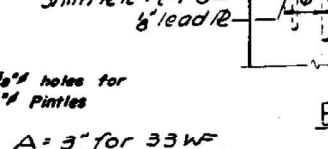
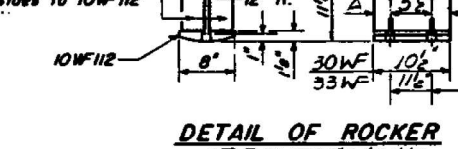
ELEVATION TOP OF WF (Bm. 3 only)

E Brg. Bent #1	510.74
E Splice #1	510.79
E Brg. Bent #2	510.88
E Splice #2	510.97
E Splice #3	511.02
E Brg. Bent #3	511.04
E Splice #4	511.06
E Brg. Bent #4	511.11
E Splice #5	511.11
E Brg. Bent #5	511.17

Note: The existing beams Nos 2 & 5 shall be shifted, and the existing bearing used except as shown. New 1" Anchor Bolts shall be grouted into drilled holes after the beams are in place. (All new rollers shall be provided at the Abuts. to Bent #5)

DESIGNED: James Hamilton
CHECKED: Emily A. Samara
PG Bennett F.M.
DRAWN: W.A. Sorenson Jr.
CHECKED: ES

DATE: 3/21/62
BY: [Signature]
CHECKED: [Signature]
DATE: 3/21/62



STRUCTURAL STEEL
F.A.R.T.E. 164 (U.S.G7) SEC 3BY-2
GREENE COUNTY
STA. 464+62.00

FOR INFORMATIONAL USE ONLY

HRG PROJECT NO.: 20073.08
HRG PROJ. CONTACT:
FILE NAME: 20073.08_76742_SPT-EX-Plan.03-005.05 10A.dgn
PLOT DRIVER: L:\pdf\dwgplotf9
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HRGreen.com
Illinois Professional Design Firm
#184-001322

USER NAME	DESIGNED	CHECKED	PLOT SCALE	PLOT DATE
rauttejada	RAT	AEU		3/20/2024

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

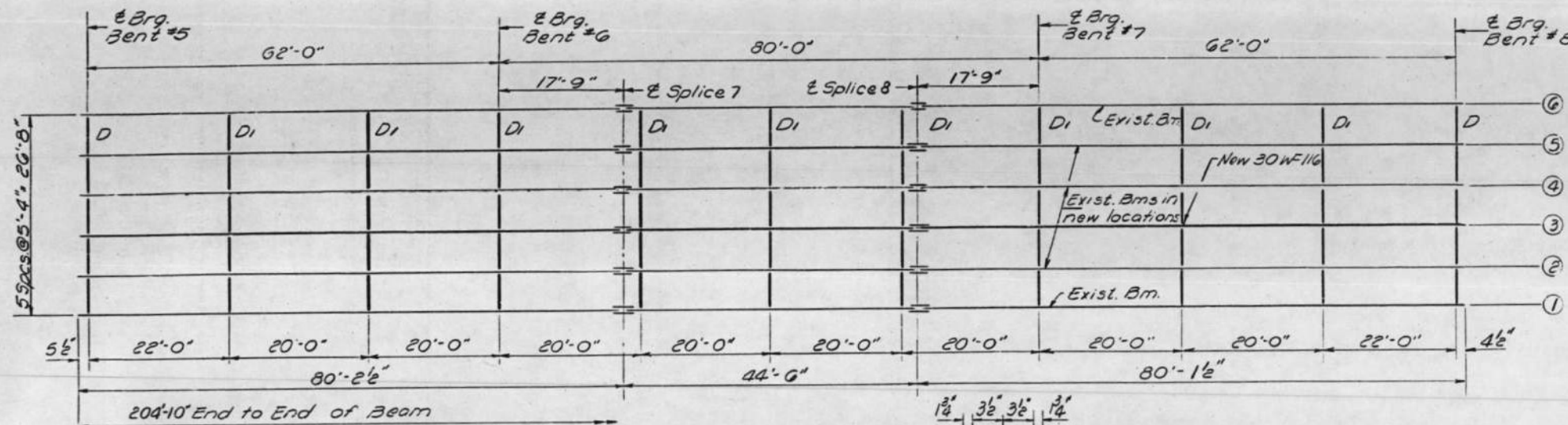
EXISTING PLANS
STRUCTURE NO. 031-0015
SHEET NO. OF SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
010	3P	GREENE	13	10A

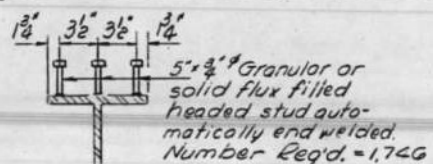
ILLINOIS CONTRACT NO. 76742
FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

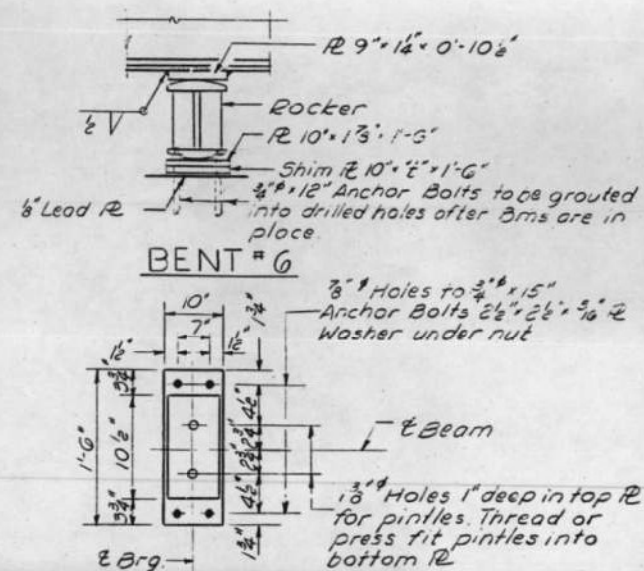
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
164	3B1-2	Greene	35	22	8 SHEETS



PLAN
Spans 5:7

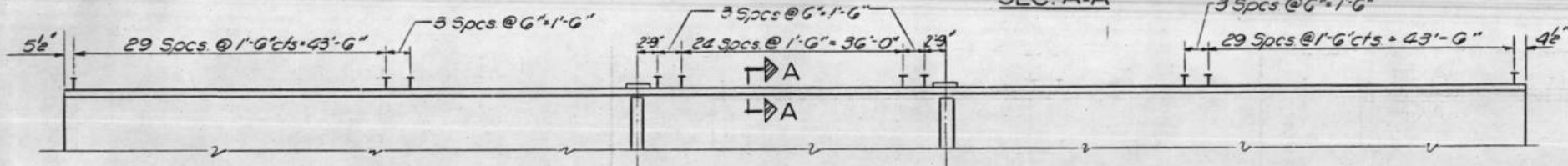


SEC. A-A



BENT #6

PLAN
For details of
Rocker See Sh. #5

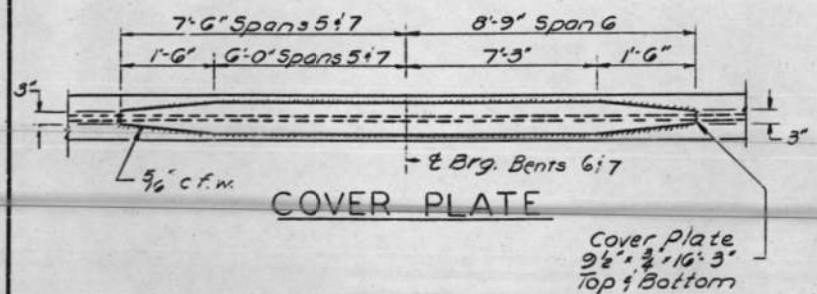


ELEVATION

ELEV. TOP OF WF(BM.#3)

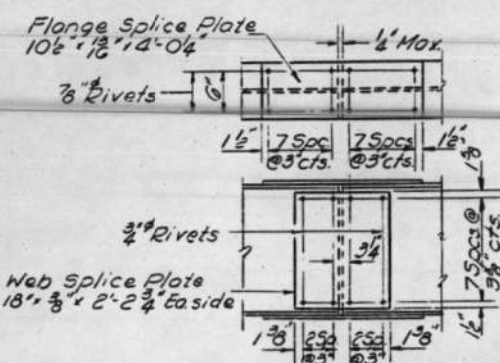
E Brg. Bent #5	511.17
E Brg. Bent #6	511.02
E Splice #7	510.99
E Splice #8	510.87
E Brg. Bent #7	510.85
E Brg. Bent #8	510.74

Note: Any existing holes not used on the outside Bms shall be filled with H.S. Bolts.

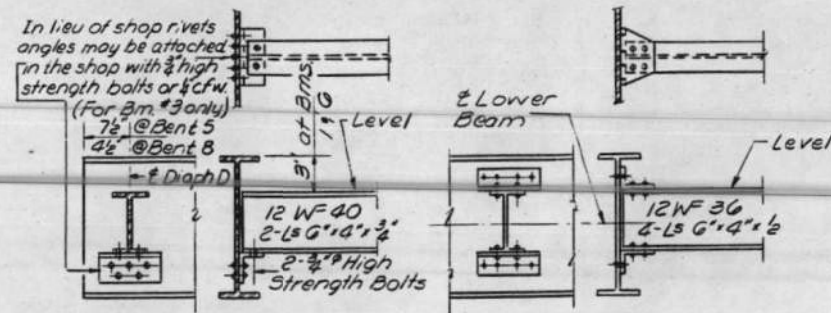


COVER PLATE

Cover plate
9/16" x 16'3"
top & bottom



DETAIL OF SPLICE



DIAPHRAGM D
10 Required (New)

DIAPHRAGM D1
45 Required
17 New diaphragms Req'd. to fit 5'-4" Bm. Spac. Cut off the 23 Exist. diaphragms to fit 5'-4" Bm. Spac. and provide new connecting angles.

For Bearing Details See Sh. #5

STRUCTURAL STEEL
F.A. RTE 164 (U.S. 67) SEC 3-BY-2
GREENE COUNTY
STA. 464+62.00

DESIGNED	James Hamilton	EXAMINED	[Signature]
CHECKED	Emile A. Samara	PASSED	[Signature]
DRAWN	F. Mercado	APPROVED	[Signature]
CHECKED	ES		

FOR INFORMATIONAL USE ONLY

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HRG PROJ. CONTACT:
FILE NAME: 2017073.08_76142_Spt. EX-Plan.03-005.07_10B.dwg
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		CHECKED -	AEU	REVISED -	
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PLOT DATE =	3/20/2024	CHECKED -	AEU	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 031-0015

SHEET NO. OF SHEETS

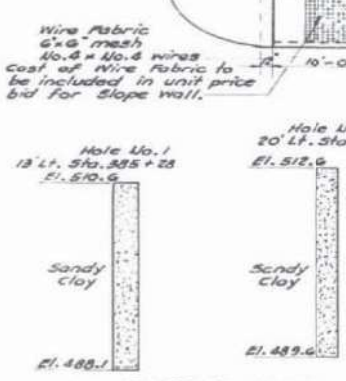
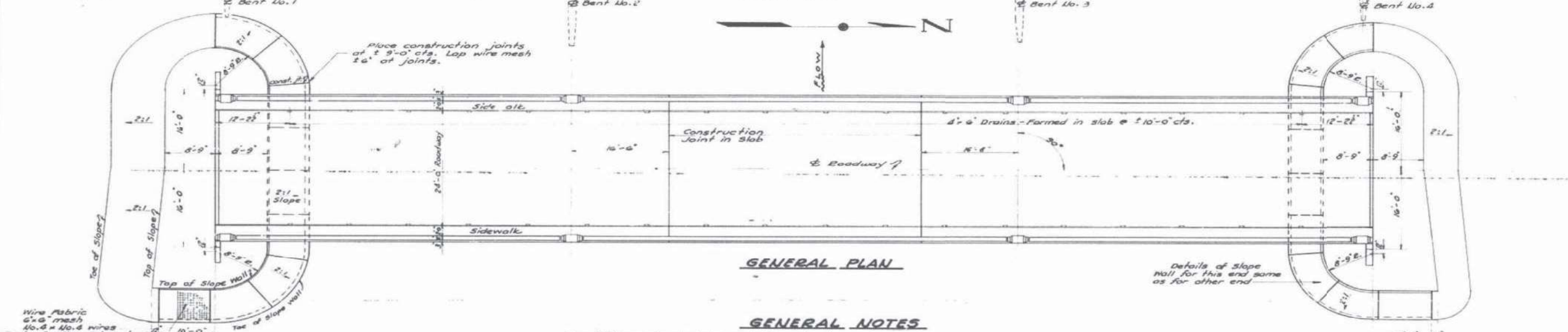
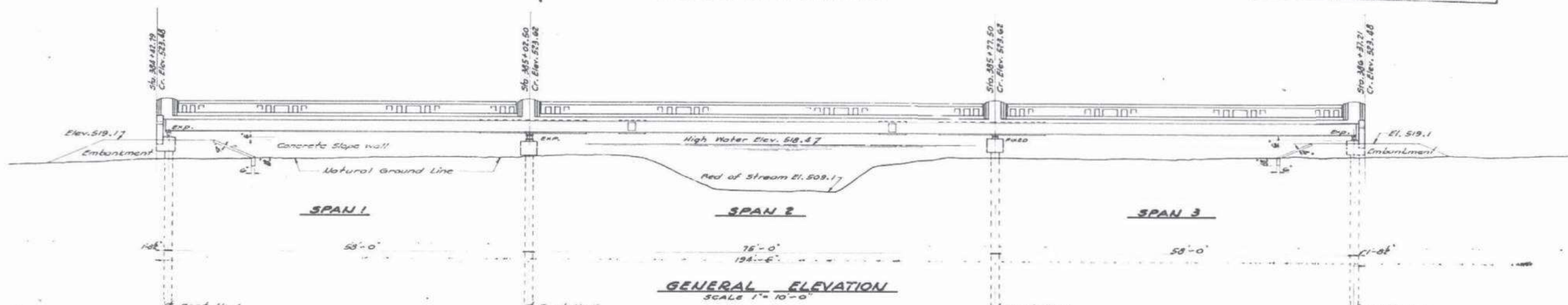
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
010	3P	GREENE	13	10B
ILLINOIS			CONTRACT NO. 76742	
			FED. AID PROJECT	

S.M. No. 47 - Spike and washer in 12" Willow 35' Lt. Sta. 385+05
Elevation 518.83
Existing Structure - Temporary wooden bridge on wood piling - to be removed by Bridge Contractor for Section 1-B.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3B	Greene	23	7

SHEET NO. 1
4 SHEETS

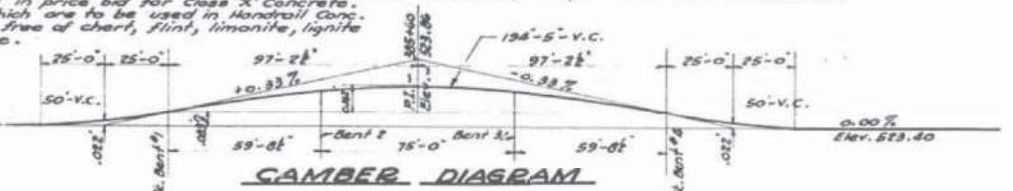


GENERAL NOTES

Class "X" Concrete shall be used throughout.
The concrete floor slab shall be finished according to Article 57.3 (c) of the Specifications.
The contractor for Sec. 1-D shall pour the floor slab within the limits of two construction joints in one continuous operation.
Rivets 3/4", holes 5/8", except as noted. Field connections riveted. Ribbed tight fit bolts may be used in place of field rivets, provided all holes are sub-punched and reamed, either after all steel has been completely assembled at the shop or after erection. These bolts shall be made of steel complying with the following specifications:
Carbon - 0.18% to 0.25% Manganese - 0.75% to 1.00%
Ultimate strength not less than 70,000 lbs. per sq. inch.
Shop inspection of Structural Steel by Illinois Division of Highways before painting.
Paint - The Contractor for Sec. 1-F shall apply one shop coat of blue lead paint. The Contractor for Sec. 1-D shall apply two field coats of white lead paint. All paint to be furnished by the Department.
Steel surfaces in contact with concrete and contact surfaces of shop riveted or shop welded structural steel shall not be painted - See Specifications for inaccessible surfaces.
Welding shall comply with the Specifications of the American Welding Society for fusion welding of Highway and Railway Bridges.
Before the Superstructure is placed, the Contractor for Sec. 1-B shall construct the embankments as shown in accordance with Sec. 13 of the Specifications.
Embankments shall be constructed from earth excavation from roadway.
Embankment of Bent No. 1 shall be obtained from Roadway Excavation between Sta. 374+05 and Sta. 377+00. Estimated Roadway Excavation = 294 cu. yds.
Embankment of Bent No. 4 shall be obtained from Roadway Excavation between Sta. 394+00 and Sta. 404+00. Estimated Roadway Excavation = 166 cu. yds.
Bit. Patt. Joints to be furnished and installed by Sec. D Contractor, except where noted otherwise.
Cost to be included in price bid for Class "X" Concrete.
Aggregates which are to be used in Handrail Conc. shall be absolutely free of chert, flint, limonite, lignite and soft sandstone.

SUMMARY OF QUANTITIES

Item	Sec. 1-B	Sec. 1-D	Sec. 1-F	Total
Handrail Concrete	Cu. Yds.	48.9	-	48.9
Class "X" Concrete	Cu. Yds.	43.0	146.7	209.7
Reinforcement Bars	Lbs.	2090	35170	37260
Structural Steel	Lbs.		125200	125200
Name Plates	Each		1	1
16"-16" Precast Conc. Piles (26' lg)	Lin. Ft.	350		350
16"-16" Conc. Test Piles	Each	1		1
18"-18" Precast Conc. Piles (20' lg)	Lin. Ft.	400		400
18"-18" Conc. Test Piles	Each	1		1
Slope Wall	Sq. Yds.	159		159
Removal of Existing Structure	Each	1		1
Earth Excavation	Cu. Yds	370		370
Water Applied (units of 1000 gals.)	units	11		11



Drainage Area 11,200 Acres
Character Hilly, sand, clay, wooded, cultivated.
Assumed c Tolbot's Formula 0.6
Opening provided below H.W. 653 Sq. Ft.

PROJECT 310-B
F.A. RTE. 164 SEC. 3-B-F-D
GREENE COUNTY
STA. 385+40

STANDARD
COMPUTED W. H. Sommer
CHECKED Paul Morrison
DRAWN W. N. S. K. C. McHugh
CHECKED P. J. M.
SPECIAL
ASSEMBLED
CHECKED

EXAMINED 1-6-1938
PASSED
APPROVED

FOR INFORMATIONAL USE ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 031-0016

SHEET NO. 1 OF 3 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
010	3P	GREENE	13	11

ILLINOIS
CONTRACT NO. 76742
FED. AID PROJECT

HRG PROJECT NO.: 270721.08
HRG PROJ. CONTACT:
FILE NAME: 20171208_76742_Sht_1-EX-Plan_031-0016_01.dwg
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HRGreen.com
Illinois Professional Design Firm
#184-001322

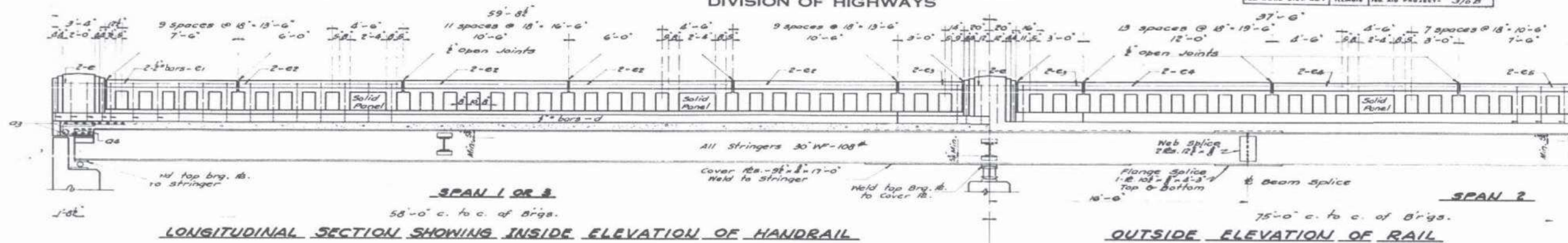
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	CHECKED - AEU	REVISED -
PLOT SCALE =	DRAWN - WJH	REVISED -
PLOT DATE = 1/12/2024	CHECKED - AEU	REVISED -

S.M. #27 - Spike and Washer in 12" Willow 35' Lt. Sta 384+05 - Elev. 515.83
 Existing structure - Temporary wooden Bridge on Filling. - To be removed
 by Bridge Contractor. (Sec. 1-B)

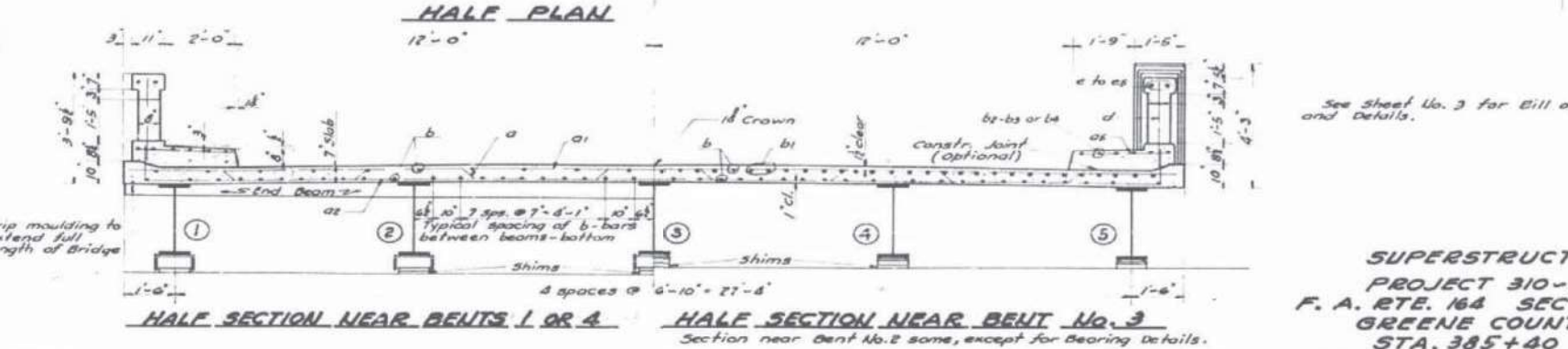
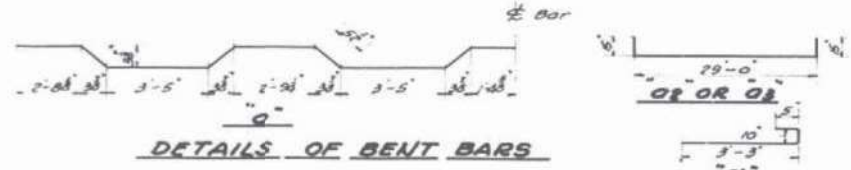
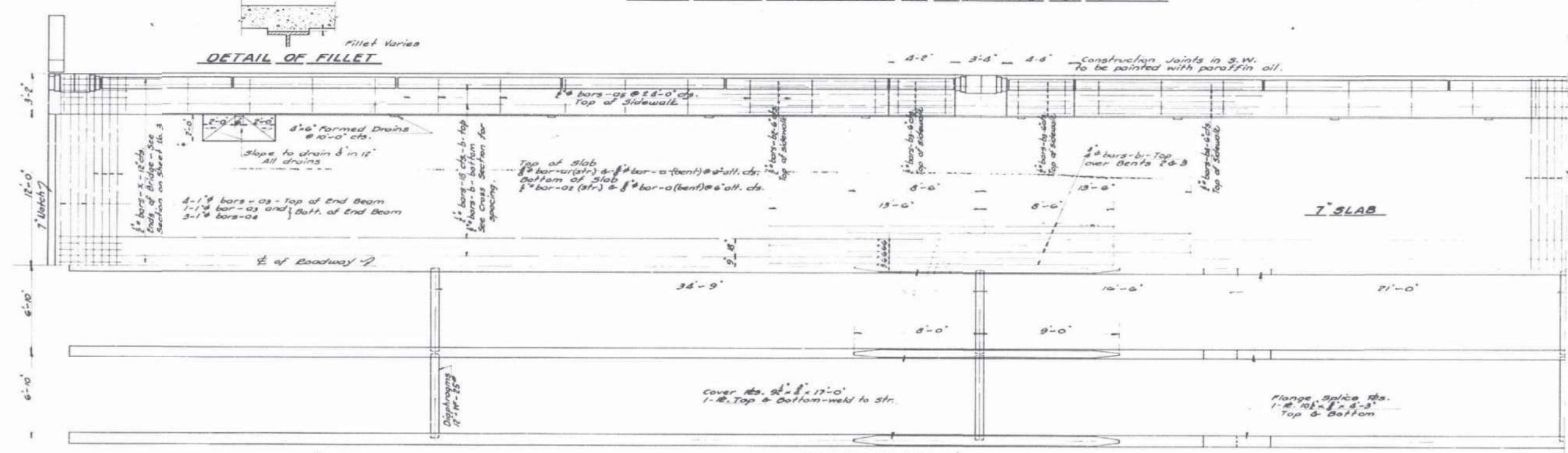
STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS

PROJ. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 164	3P	Greene	23	8
ILL. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT -	3/0 R	

SHEET NO. 2
 4 SHEETS



DEAD LOAD DEFLECTION AT 1/4 POINTS OF SPANS



COMPUTED	W. H. Danner
CHECKED	Paul Munnear
DRAWN	W. H. S. F. MICHUDO
CHECKED	Pa. 97.
ASSEMBLED	
CHECKED	

EXAMINED	1-6-1938
PASSED	A. F. Burch
APPROVED	Paul Munnear
	Chief Highway Engineer

See Sheet No. 3 for Bill of Material and Details.

SUPERSTRUCTURE
 PROJECT 310-B
 F. A. RTE. 164 SEC. 3-F-D
 GREENE COUNTY
 STA. 385+40

FOR INFORMATIONAL USE ONLY

HRG PROJECT NO.: 27073.08
 HRG PROJ. CONTACT:
 FILE NAME: 20173.08_76142_Sht_3-EX-Plan_03-006_02.dgn
 PLOT DRIVER: L_Pdf.dwg.plt
 PEN TABLE: plottable.tbl



USER NAME =	raultejada	DESIGNED -	RAT	REVISED -	
		CHECKED -	AEU	REVISED -	
PLOT SCALE =		DRAWN -	WJH	REVISED -	
PLOT DATE =	1/12/2024	CHECKED -	AEU	REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
 STRUCTURE NO. 031-0016

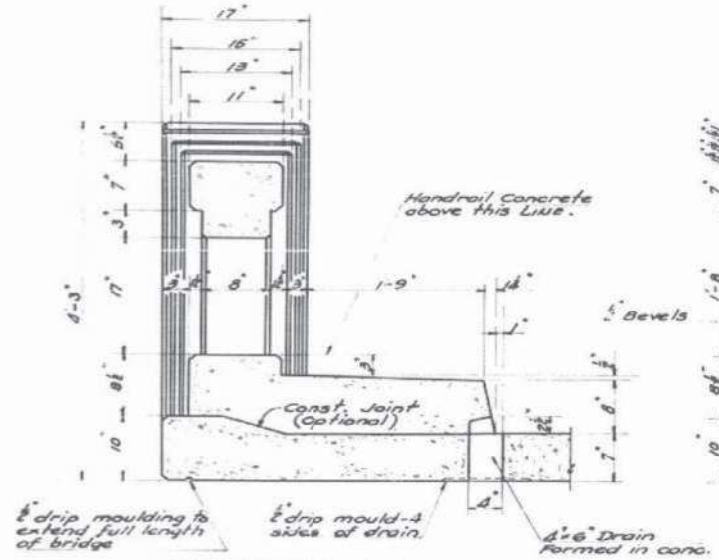
SHEET NO. 2 OF 3 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
010	3P	GREENE	13	12
ILLINOIS			CONTRACT NO. 76742	
FED. AID PROJECT				

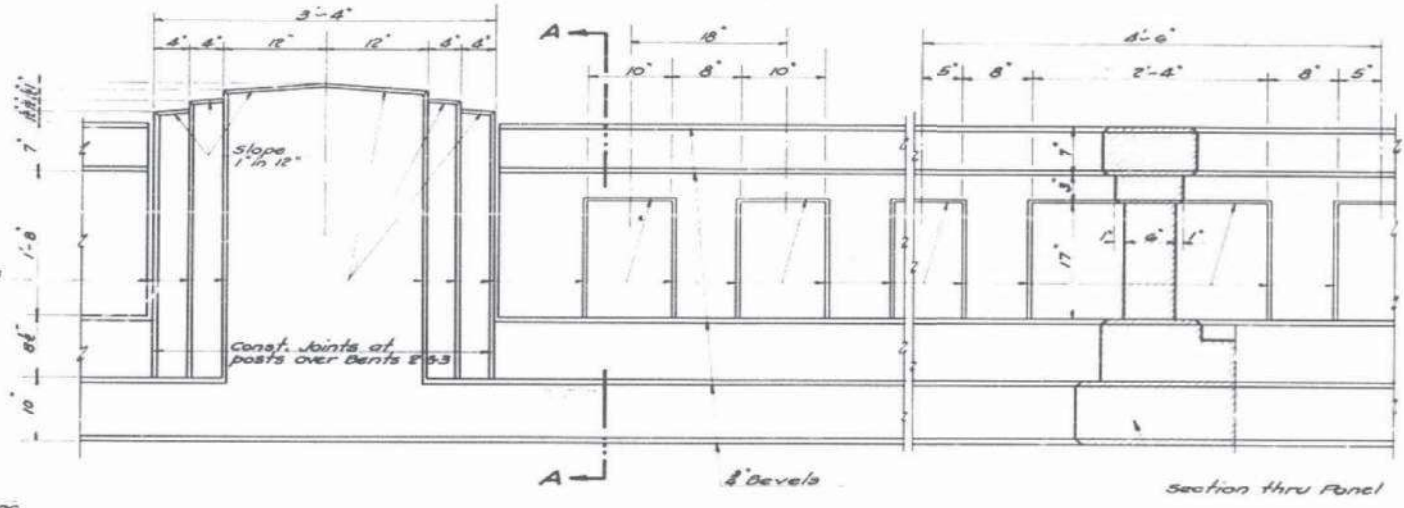
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA.164	3B	Greene	23	9
RD. ROAD DIST. NO.	32	ILLINOIS	FED. AID PROJECT -	310-B

SHEET NO. 9
4 SHEETS



SECTION A-A

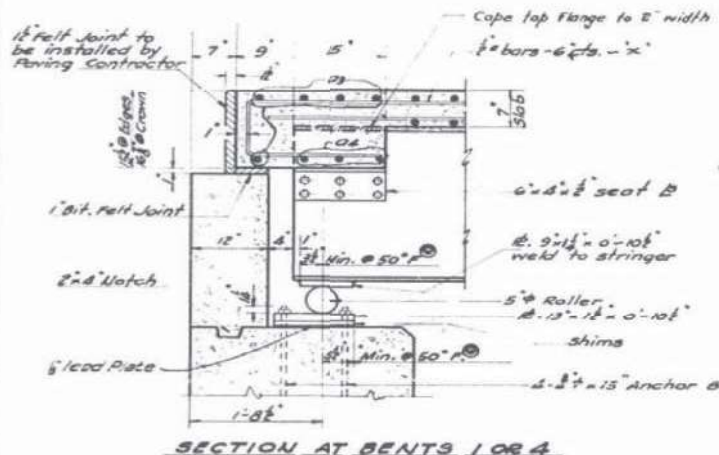


OUTSIDE ELEVATION OF HANDRAIL AND POST

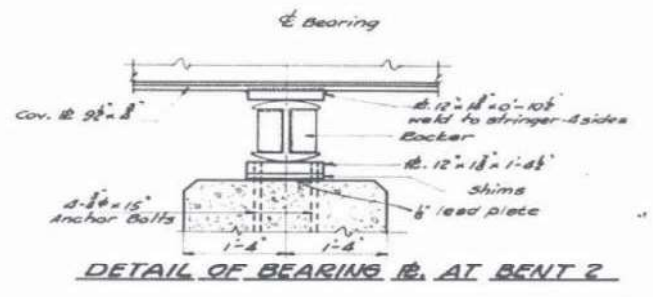
BILL OF MATERIAL - SUPER.

Bar	No.	Size	Length
0	189	3/8"	31'-0"
01	189	3/8"	31'-0"
02	189	3/8"	30'-0"
03	10	1/2"	31'-6"
04	24	1/2"	6'-0"
05	104	1/2"	2'-9"
6	434	3/8"	28'-9"
61	76	3/8"	22'-0"
62	48	3/8"	27'-0"
63	48	3/8"	4'-0"
64	24	3/8"	32'-0"
C	16	1/2"	3'-0"
C1	8	1/2"	8'-3"
C2	32	1/2"	10'-3"
C3	16	1/2"	4'-0"
C4	16	1/2"	11'-9"
C5	8	1/2"	18'-9"
X	276	1/2"	2'-9"
D	62	1/2"	4'-0"

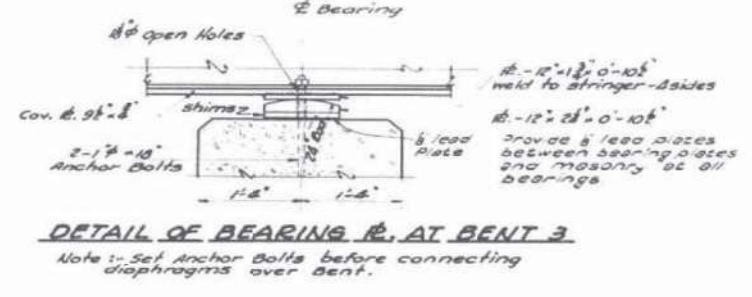
SECTION	DESCRIPTION	UNIT	AMOUNT
D	Handrail Concrete	Cu. Yds.	18.9
D	Class X Concrete	Cu. Yds.	184.7
D	Reinforcement Bars	Lbs.	35,170
D	Structural Steel	Lbs.	123,800
D	Name Plate	Each	1



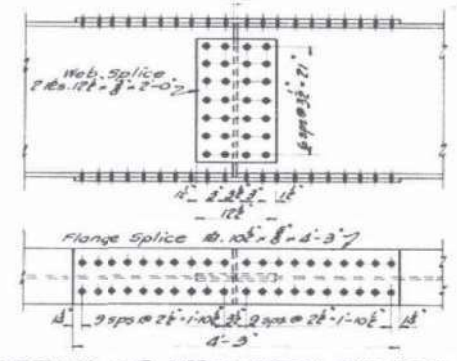
SECTION AT BENTS 1 OR 4



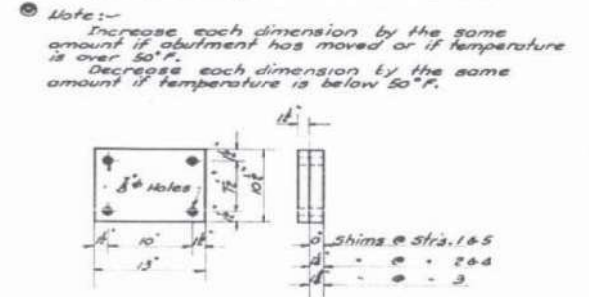
DETAIL OF BEARING #2 AT BENT 2



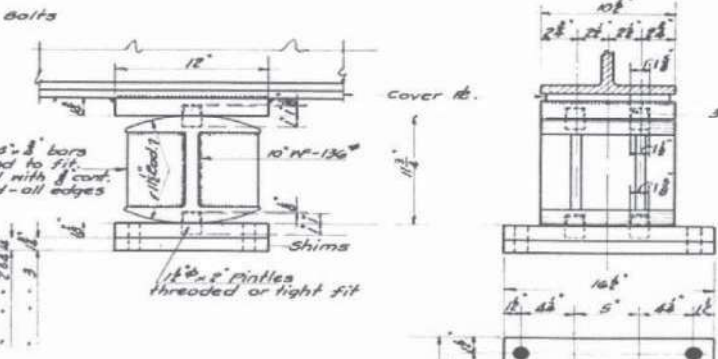
DETAIL OF BEARING #3 AT BENT 3



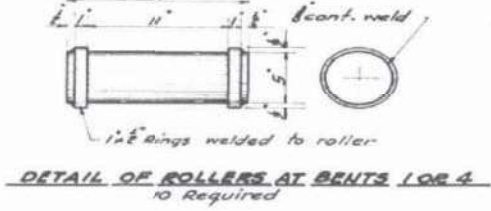
DETAIL OF STRINGER SPlice



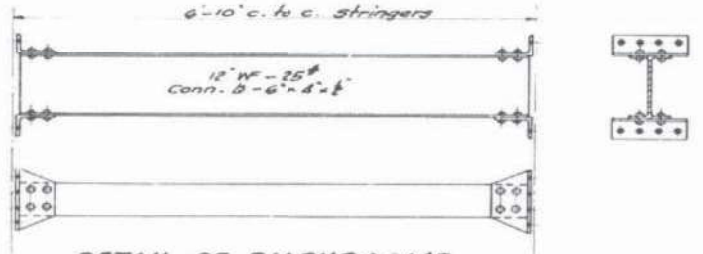
BOTTOM BEARING #2 AT BENTS 1 OR 4
10 Required



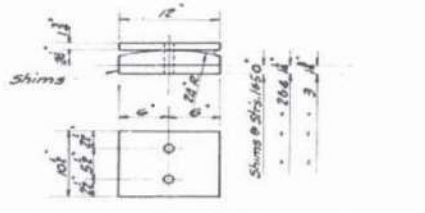
DETAIL OF ROCKER AND BEARING #2 AT BENT 2
5 sets Required.



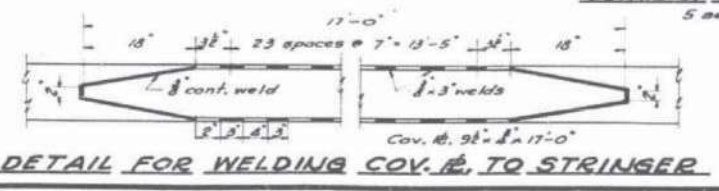
DETAIL OF ROLLERS AT BENTS 1 OR 4
10 Required



DETAIL OF DIAPHRAGMS
20 Required



DETAIL OF BRG. #2 AT BENT 3
5 sets Required



DETAIL FOR WELDING COV. #2 TO STRINGER

STANDARD	COMPUTED	W. T. Sommer	EXAMINED	H. T. Sommer
	CHECKED	Paul Morrison	PASSED	H. T. Sommer
	DRAWN	W. S. McManus	APPROVED	H. T. Sommer
	CHECKED	P. M.		
SPECIAL	ASSEMBLED			
	CHECKED			

NOTES
For all plates in contact with rollers, the edges adjacent to rollers shall be rolled, cut square, or finished.
Estimated weight of rollers, rockers, bearing plates, lead plate and shims = 4720 lbs. - is included in bill of material under item Structural Steel.
Material for rollers - See Special Provisions.

DETAILS
PROJECT 310-B
F.A. RTE. 164 SEC. 3-F-D
GREENE COUNTY
STA. 385+40

FOR INFORMATIONAL USE ONLY

HRG PROJECT NO. 27073.08
HRG PROJ. CONTACT:
FILE NAME: 2073.08_76142_Sht_3-Plan_03-006.03.dgn
PLOT DRIVER: L_Pdf.dwg
PEN TABLE: plottabel.tbl



USER NAME =	rautejada	DESIGNED -	RAT	REVISED -	
		CHECKED -	AEU	REVISED -	
PLOT SCALE =		DRAWN -	WJH	REVISED -	
PLOT DATE =	1/12/2024	CHECKED -	AEU	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

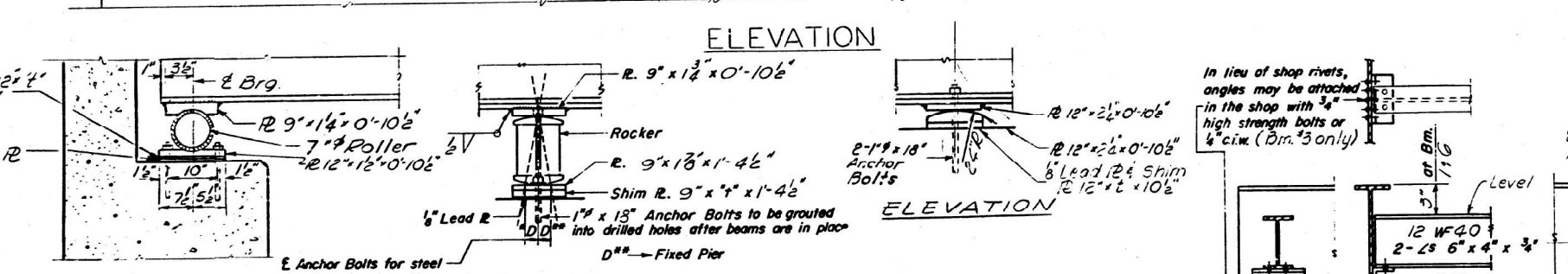
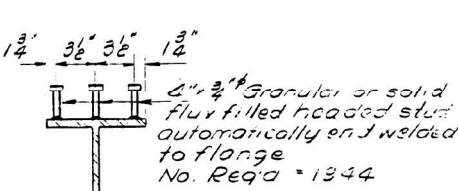
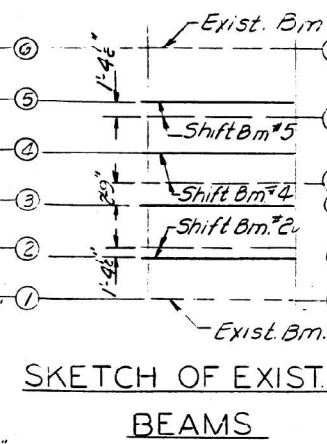
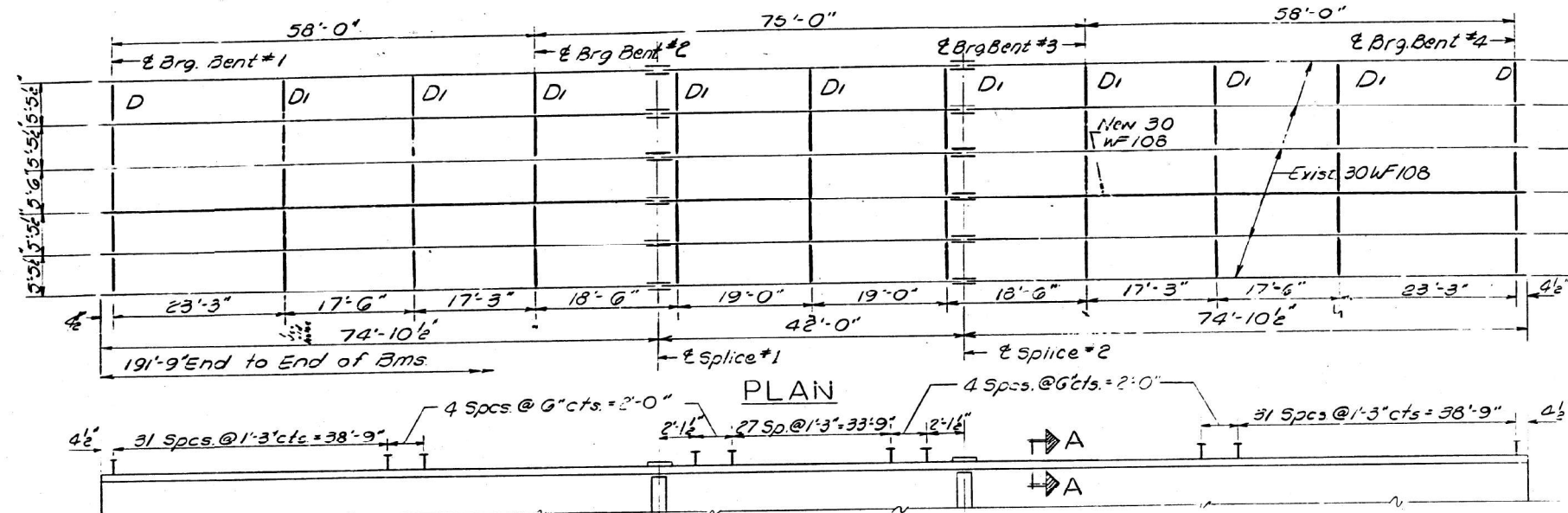
EXISTING PLANS
STRUCTURE NO. 031-0016

SHEET NO. 3 OF 3 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
010	3P	GREENE	13	13
ILLINOIS			CONTRACT NO. 76742	
FED. AID PROJECT				

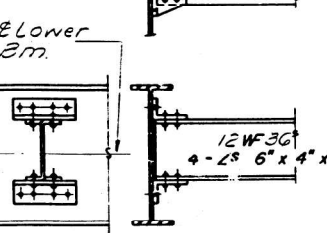
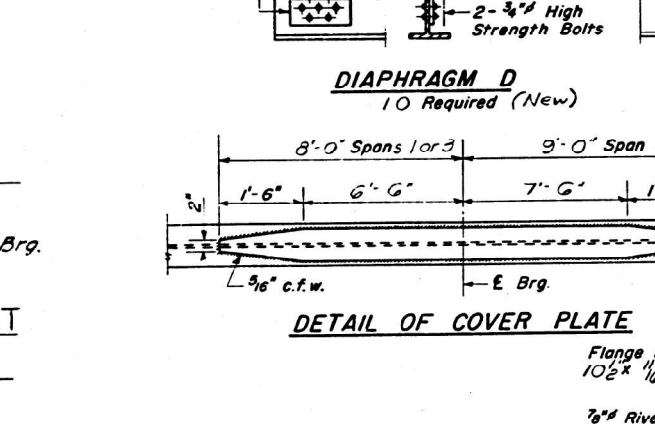
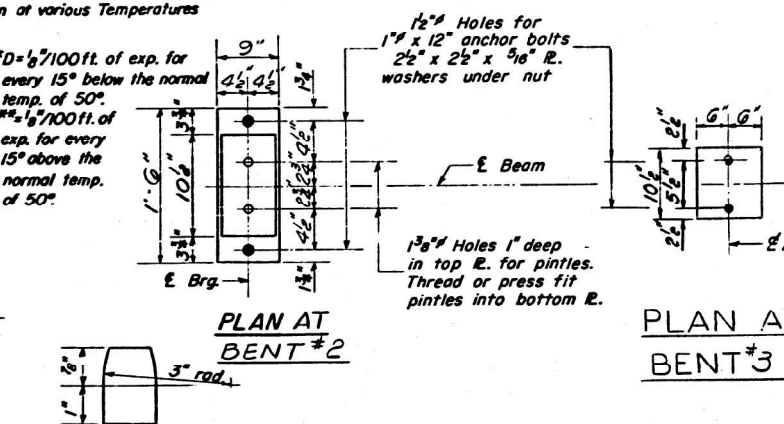
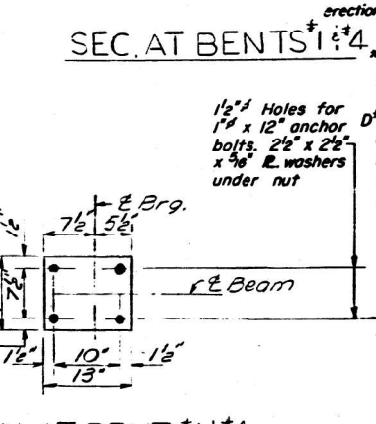
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

TYPE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
164	3B1-1	Greene	35	14
SHEETS				



NOTE A
(9) New diaphragms req'd. to fit 5'-6" Bm. Spac. also 16 Req'd. to fit 5'-5 1/2" Bm. Spac. Cut off the 20 exist. diaphragms to fit 5'-5 1/2" Bm. Spac. and provide new connecting angles

DETAIL AT ABUTS

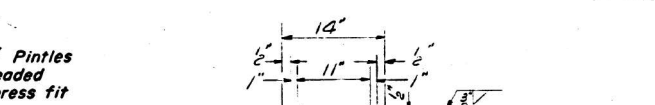
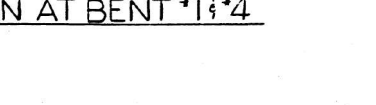


SHIM PLATES - INCHES

Location	Bent #1	Bent #2	Bent #3	Bent #4
Beam #5	0"	2"	2"	0"
Beam #4	1 1/2"	3 1/2"	3 1/2"	1 1/2"
Beam #3	3/4"	2 1/2"	2 1/2"	3/4"
Beam #2	0"	2"	2"	0"

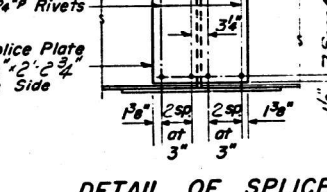
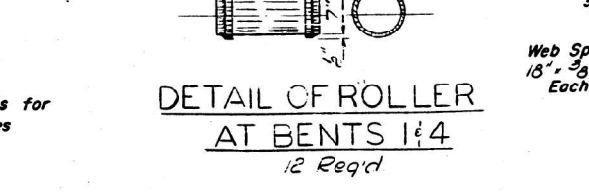
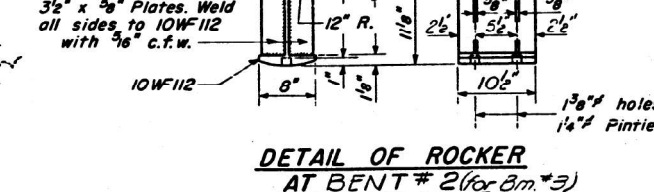
ELEVATION TOP OF W (Bm. #3)

Brig. Abut	524.99
Brig. Bent #2	523.06
Splice #1	525.08
Splice #2	525.08
Brig. Bent #3	525.06
Brig. Abut	524.99



NOTE: The existing beams Nos. 2, 4 & 5 shall be shifted and the existing bearings used. New 1" Anchor bolts shall be grouted into drilled holes after the beams are in place. (All New Rollers shall be provided at Bents 1 & 4)
Any existing holes not used on the outside beams shall be filled with H. S. Bolts

DESIGNED: James Hamilton
CHECKED: Emil A. Samara
DRAWN: W. A. Sausman Jr.
EXAMINED: [Signature]
PASSED: [Signature]
APPROVED: Richard H. Goltzman



STRUCTURAL STEEL
F.A.R.T.E 164 (U.S. 67) SEC. 3-3Y-1
GREENE COUNTY
STA. 385+40.00

I-2-C 7-2-62 Rev. 11-9-62 Rev. 8-16-63 Rev. 12-10-63

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 031-0016

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
010	3P	GREENE	13	13A
ILLINOIS CONTRACT NO. 76742 FED. AID PROJECT				

HRG PROJECT NO.: 27073.08
HRG PLOT CONTACT:
FILE NAME: 20173.08_76742_Spt_Ext_Plan_031-0016.dwg
PLOT DRIVER: IL_Pdf.dwg
PEN TABLE: plotlabel.tbl

HRGreen.com
Illinois Professional Design Firm
#184-001322

USER NAME = rauttejada	DESIGNED - RAT	REVISED -
	CHECKED - AEU	REVISED -
PLOT SCALE =	DRAWN - WJH	REVISED -
PLOT DATE = 3/20/2024	CHECKED - AEU	REVISED -

SHEET NO. OF SHEETS