11-21-14 LETTING ITEM 084

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	D6 BDGE PAINTING 2015	ADAMS	30	1
	ILLINOIS	CONTRACT NO. 72H36		

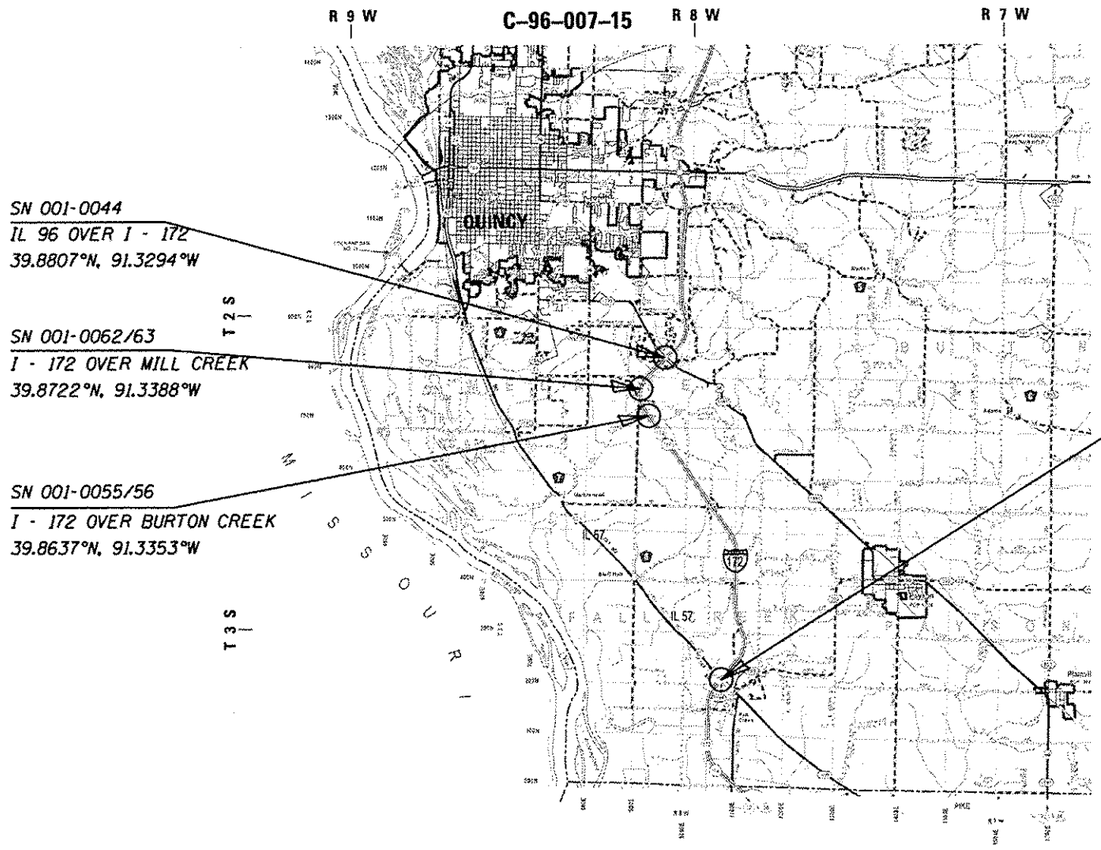
FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

F.A.I. ROUTE 172 (I – 172)
SECTION D6 BDGE PAINTING 2015

ADAMS COUNTY



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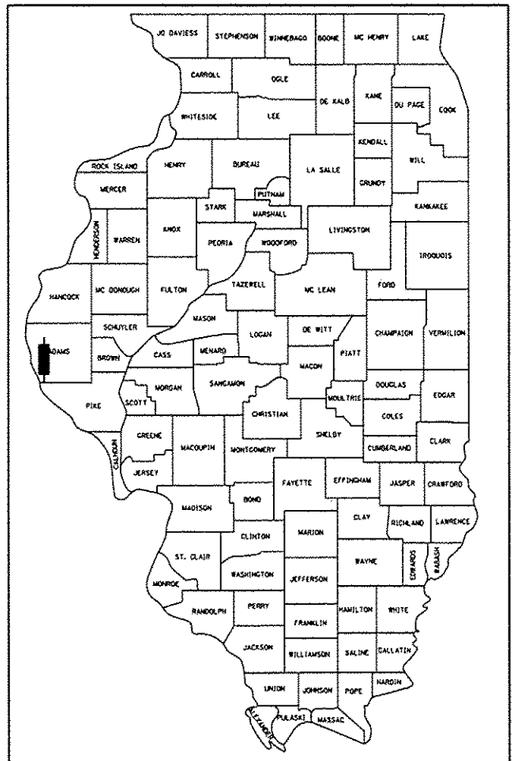

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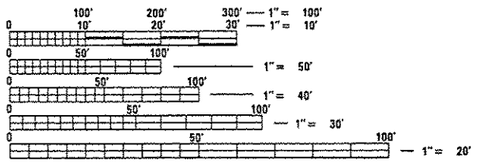

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER BRANDON DUDLEY (217) 785-9290
PROJECT MANAGER DAVE COPENBARGER (217) 785-5306

CONTRACT NO. 72H36

GROSS LENGTH = x.xx FT. = x.xxx MILE
NET LENGTH = x.xx FT. = x.xxx MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED August 21 20 14
Roger Driskell
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
Oct 17 20 14
John D. Baranzelli, P.E. by auth
ENGINEER OF DESIGN AND ENVIRONMENT
Oct 17 20 14
Omer Osman, P.E. by
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS:

STANDARDS

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701101-04
701106-02
701400-07
701401-08
701411-08
701422-06
701901-03

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT 6

EXAMINED AUGUST 14th 2014
John C Nguyen
ENGINEER OF OPERATIONS

EXAMINED August 6 2014
Ron Auchambeau
ENGINEER OF PROJECT IMPLEMENTATION

EXAMINED August 6 2014
Jeffrey R. Myers
ENGINEER OF PROGRAM DEVELOPMENT

GENERAL NOTES:

STRUCTURE NO 1 - SN 001-0044, IL 96 OVER I-172 AT THE INTERSECTION OF I-172 AND IL 96 ADAMS CO.
CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED
IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES".
ALL EXISTING STEEL SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING PER SSPC SP 10.
ALL STEEL CLEANED SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 - OZ/E/U.
THE COLOR OF THE FINAL FINISH COAT FOR THE OUTSIDE AND BOTTOM OF THE FASCIA BEAMS
SHALL BE GREEN, MUNSELL NO 7.5G 4/8. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR
SURFACES AND SHALL BE GRAY, MUNSELL NO 5B 7/1.

STRUCTURE NO 2/3 - SN 001-0055/56, I-172 NB/SB OVER BURTON CREEK 1.4M SOUTH OF I-172/IL 96 IN ADAMS CO.
CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED
IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES".
ALL EXISTING STEEL LOCATED 10' FROM ALL EXPANSION JOINTS AND ALL EXTERIOR SURFACES OF BOTH
FASCIA BEAMS INCLUDING THE BOTTOM FLANGE OF THE FASCIA BEAM SHALL BE CLEANED PER NEAR
WHITE BLAST CLEANING PER SSPC SP 10. ALL EXISTING STEEL CLEANED SHALL BE PAINTED ACCORDING TO
THE REQUIREMENTS OF PAINT SYSTEM 1 - OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR THE OUTSIDE AND
BOTTOM OF THE FASCIA BEAMS SHALL BE GREEN, MUNSELL NO 7.5G 4/8. THE COLOR OF THE
FINAL FINISH COAT FOR ALL INTERIOR SURFACES SHALL BE GRAY, MUNSELL NO 5B 7/1.

STRUCTURE NO 4/5 - SN 001-0062/63, I-172 SB/NB OVER MILL CREEK 0.8M SOUTH OF I-172/IL 96 IN ADAMS CO.
CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED
IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES".
ALL EXISTING STEEL LOCATED 10' FROM ALL EXPANSION JOINTS AND ALL EXTERIOR SURFACES OF BOTH
FASCIA BEAMS INCLUDING THE BOTTOM FLANGE OF THE FASCIA BEAM SHALL BE CLEANED PER NEAR
WHITE BLAST CLEANING PER SSPC SP 10. ALL EXISTING STEEL CLEANED SHALL BE PAINTED ACCORDING TO
THE REQUIREMENTS OF PAINT SYSTEM 1 - OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR THE OUTSIDE AND
BOTTOM OF THE FASCIA BEAMS SHALL BE GREEN, MUNSELL NO 7.5G 4/8. THE COLOR OF THE
FINAL FINISH COAT FOR ALL INTERIOR SURFACES SHALL BE GRAY, MUNSELL NO 5B 7/1.

STRUCTURE NO 6/7 - SN 001-0064/65, I-172 SB/NB OVER IL 57 AT THE INTERSECTION OF I-172 AND IL 57 ADAMS CO.
CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED
IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES".
ALL EXISTING STEEL SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING PER SSPC SP 10.
ALL STEEL CLEANED SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 - OZ/E/U.
THE COLOR OF THE FINAL FINISH COAT FOR THE OUTSIDE AND BOTTOM OF THE FASCIA BEAMS
SHALL BE GREEN, MUNSELL NO 7.5G 4/8. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR
SURFACES AND SHALL BE GRAY, MUNSELL NO 5B 7/1.

THE USE OF AIR MONITORS WILL BE REQUIRED AT ALL STRUCTURES. A MINIMUM OF
2 MONITORS WILL BE REQUIRED AT EACH BRIDGE TO MONITOR ABRASIVE BLASTING OPERATIONS
AT THIS SITE, SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT
CLEANING RESIDUES".

THE SSPC-QP-1 AND SSPC-QP2 PAINTING CONTRACTOR CERTIFICATIONS WILL BE REQUIRED
FOR THESE BRIDGES.

THE CONTAINMENT SYSTEM AT STRUCTURES 001-0064 & 001-0065 SHALL INCLUDE A SUSPENDED SOLID FLOORING
SYSTEM OVER DRIVING LANES OF IL 57. THE FLOORING SYSTEM SHALL BE SUFFICIENT TO PROTECT TRAFFIC ON
IL 57 FROM ANY AND ALL FALLING DEBRIS. A MINIMUM HEIGHT OF 16' BELOW THE BOTTOM OF THE CONTAINMENT
SHALL BE MAINTAINED OVER DRIVING LANES OF IL 57. TRAFFIC ON IL 57 IS TO REMAIN OPEN DURING WORK
OPERATIONS, HOWEVER THE CONTRACTOR WILL BE ALLOWED SHORT TERM LANE CLOSURES OF IL 57 ACCORDING
TO STANDARD 701301 DURING SETUP AND TEARDOWN OPERATIONS. SUPPLYING, ERECTING, MAINTAINING, AND
REMOVING THE FLOORING SYSTEM SHALL BE CONSIDERED INCIDENTAL TO "CONTAINMENT AND DISPOSAL OF
LEAD PAINT CLEANING RESIDUES NUMBERS 6 & 7" AND SHALL NOT BE MEASURED FOR PAYMENT.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX, STANDARDS, GENERAL NOTES, & SIGNATURES

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

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	D6 BDGE PAINTING 2015	ADAMS	30	2
		CONTRACT NO. 72H36		
	ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 100% STATE BRIDGE 0014 S.N.
67100100	MOBILIZATION	L SUM	1	1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	4	4
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	4	4
70800105	TEMPORARY WATER FILLED BARRIER	FOOT	600	600
X7010410	SPEED DISPLAY TRAILER	CAL MO	4	4
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
Z0007103	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 3	L SUM	1	1
Z0007104	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 4	L SUM	1	1
Z0007105	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 5	L SUM	1	1
Z0007106	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 6	L SUM	1	1
Z0007107	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 7	L SUM	1	1
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: _____ | SHEET ___ OF ___ SHEETS | STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	D6 BDGE PAINTING 2015	ADAMS	30	3
		CONTRACT NO. 72H36		
	ILLINOIS	FED. AID PROJECT		

				CONSTR. CODE
				BRIDGE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0014 S.N.
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1	1
Z0010503	CLEANING AND PAINTING STEEL BRIDGE NO. 3	L SUM	1	1
Z0010504	CLEANING AND PAINTING STEEL BRIDGE NO. 4	L SUM	1	1
Z0010505	CLEANING AND PAINTING STEEL BRIDGE NO. 5	L SUM	1	1
Z0010506	CLEANING AND PAINTING STEEL BRIDGE NO. 6	L SUM	1	1
ϕ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500
Z0010507	CLEANING AND PAINTING STEEL BRIDGE NO. 7	L SUM	1	1

ϕ 0042

WATER FILLED BARRIER SCHEDULE		
SN	LOCATION	BARRIER QUANTITY
001-0044	I-172 NB	300'
001-0044	I-172 SB	300'

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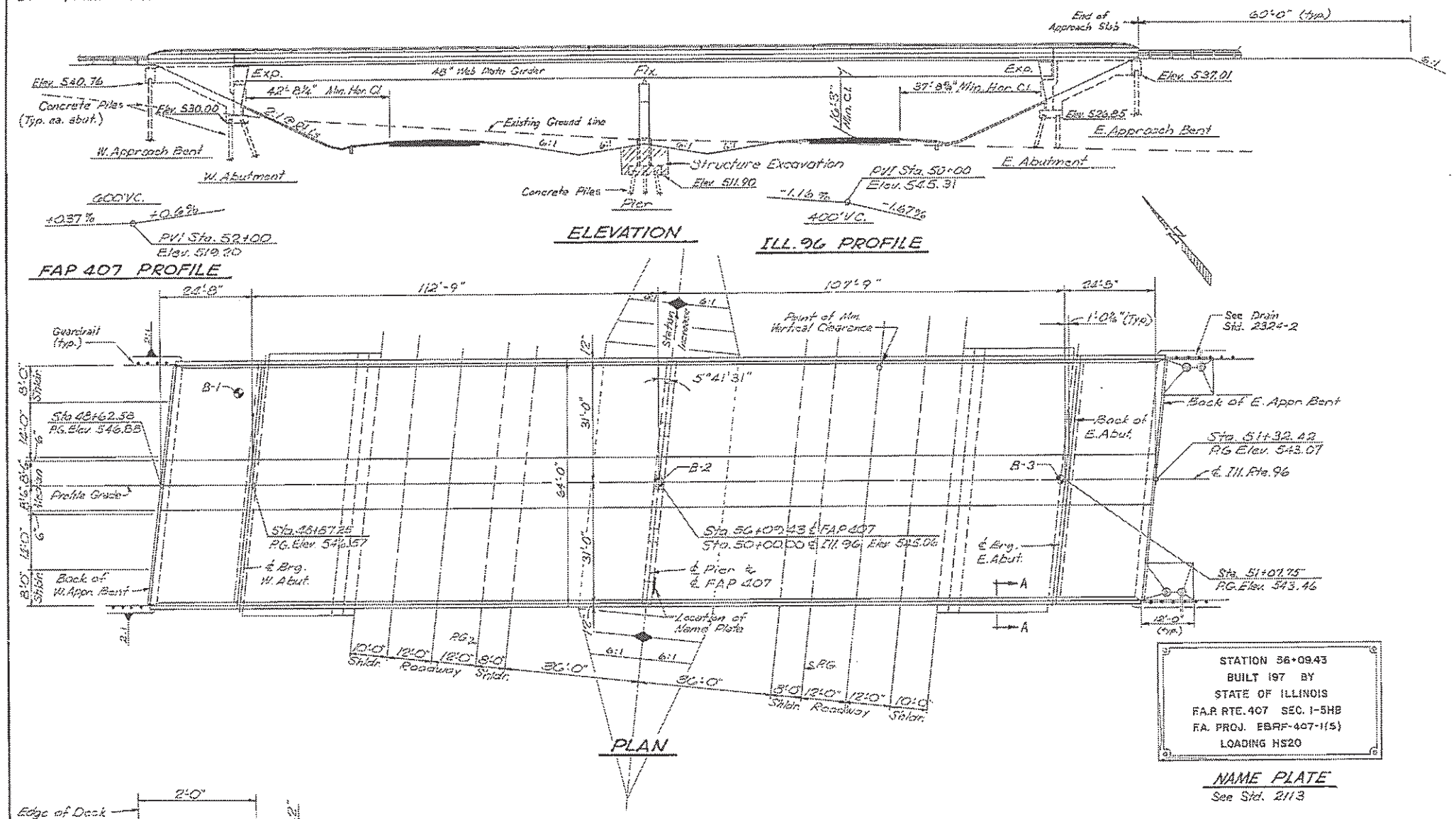
		DATE -	REVISED -		SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

B.M. chiseled □ in N.W. wingwall of existing bridge carrying Ill. Rte. 96 over Mill Creek, 40' Rt. of Sta. 64+75, Elev. 526.24

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

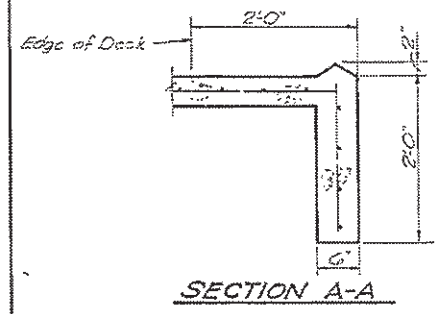
ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FA 407	1-5HB	ADAMS	121	53
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

SHEET NO. 1
11 SHEETS

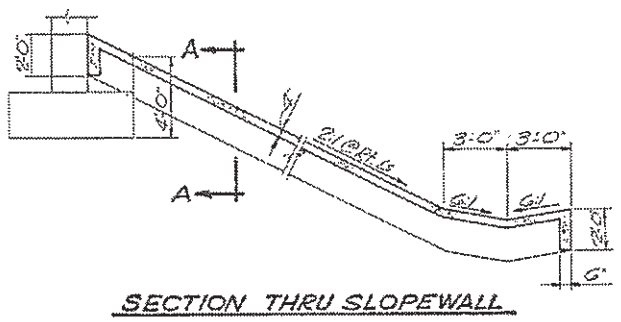


STATION 56+09.43
BUILT 197 BY
STATE OF ILLINOIS
F.A.R. RTE. 407 SEC. 1-5HB
F.A. PROJ. EBRF-407-1(5)
LOADING HS20

NAME PLATE
See Std. 2113



SECTION A-A

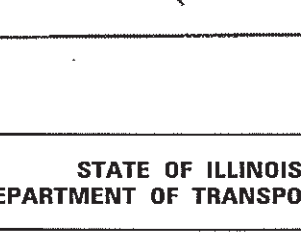


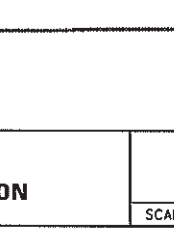
SECTION THRU SLOPEWALL

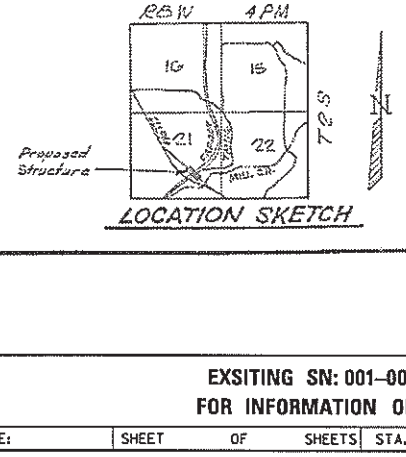
DESIGN STRESSES

f_c = 1200 psi Deck Slab (Main Spans)
$f_{c'}$ = 1400 psi Curb, Parapet, Deck Slab (Approach Spans) & Substructure
v_c = 75 psi (Ftgs.)
n = 10
f_s = 20,000 psi Reinf.
f_s = 20,000 psi Struct. (M183) ; 27,000 psi (M.222) Struct.
Allowable ℄ Deflection = 1/1240
Design Specifications 1973 AASHO (as applicable)
Add 35# per sq. ft. for future wearing surface.

LOADING-HS20-44







LOCATION SKETCH

GENERAL NOTES

ALL REINFORCEMENT BARS SHALL BE LAPPED 24 DIAMETERS UNLESS OTHERWISE SHOWN.

FASTENERS SHALL BE HIGH STRENGTH BOLTS. BOLTS 7/8" Ø, OPEN HOLES 15/16" Ø, UNLESS OTHERWISE NOTED.

CALCULATED WEIGHT OF STRUCTURAL STEEL = M.222 105,525#
M.183 391,645#

THE BASIC LEAD SILICO CHROMATE PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF STRUCTURAL STEEL.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF BEAMS OR GIRDERS NOR TO THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

ANCHOR BOLTS SHALL BE SET BEFORE BOLTING DIAPHRAGMS OVER SUPPORTS.

SLOPE WALL SHALL BE REINFORCED WITH WELDED WIRE FABRIC 6" X 6" MESH, WEIGHING 58# PER 100 SQ. FT.

THE CONTRACTOR SHALL DRIVE ONE CONCRETE TEST PILE IN A PERMANENT LOCATION AT EACH ABUTMENT AND PIER AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF PILES.

CONCRETE PILES AT ABUTMENTS SHALL BE DRIVEN IN HOLES PREDRILLED THROUGH THE EMBANKMENT IN ACCORDANCE WITH ARTICLE 513.09(c) OF THE STANDARD SPECIFICATIONS.

THE CONCRETE RAIL SECTION ABOVE THE MANDATORY CONSTRUCTION JOINT AT THE TOP OF THE SLAB SHALL BE CONSTRUCTED OF CLASS X CONCRETE, EXCEPT THE AGGREGATES SHALL CONFORM TO THE REQUIREMENTS OF HANDRAIL CONCRETE.

PROTECTIVE COAT SHALL NOT BE APPLIED TO SURFACES TO WHICH WATERPROOFING MEMBRANE SYSTEM IS APPLIED.

BEARING SEAT SURFACES SHALL BE CONSTRUCTED OR ADJUSTED TO THE DESIGNATED ELEVATIONS WITHIN A TOLERANCE OF ± 1/8 INCH. ADJUSTMENT SHALL BE MADE EITHER BY GRINDING THE SURFACE OR BY SHIMMING THE BEARING. TWO 1/8" ADJUSTING SHIMS, OF THE DIMENSIONS OF THE BOTTOM BEARING PLATE, SHALL BE PROVIDED FOR EACH BEARING IN ADDITION TO ALL OTHER PLATES OR SHIMS.

THE EMBANKMENT CONFIGURATION SHOWN SHALL BE THE MINIMUM EMBANKMENT THAT MUST BE CONSTRUCTED PRIOR TO CONSTRUCTION OF THE ABUTMENTS.

TOTAL BILL OF MATERIALS

Item	Unit	Super	Sub	Total
Structure Excavation	Cu. Yds.	———	370	370
Class 'X' Concrete	Cu. Yds.	615.2	424.2	1039.4
Structural Steel	Lump Sum	1	———	1
Reinforcement Bars	Lbs.	137,911	30,894	168,805
Concrete Piles	Lin. Ft.	———	2940	2940
Test Piles, Concrete	Ea.	———	3	3
Slope Wall, 4 inch.	Sq. yds.	—	320	320
Bit. Conc. Surf. Crse. Class I	Tons	88	———	88
Waterproofing Membrane System	Sq. Yds.	1315	———	1315
Aluminum Railing	Lin. Ft.	533.6	———	533.6
Preformed Joint Sealer	Lin. Ft.	129	———	129
Stud Shear Connectors, ¾"	Ea.	3,832	———	3832
Protective Coat	Sq. Yds.	730	———	730
Sand Backfill	Cu. Yds.	———	435	435
Name Plate	Ea.	———	1	1

DESIGNED	CDC
CHECKED	HMW
DRAWN	CDC
CHECKED	HMW

GENERAL PLAN & ELEVATION
ILL. RTE. 96 OVER F.A.P. RTE. 407
F.A.P. RTE. 407 - SEC. 1-5 HB
ADAMS COUNTY
STATION 56+09.43
PROJ. EBRF-407-1(5)

PLANS PREPARED BY AMERICAN ENGINEERING CO.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXSITING SN: 001-0044
FOR INFORMATION ONLY

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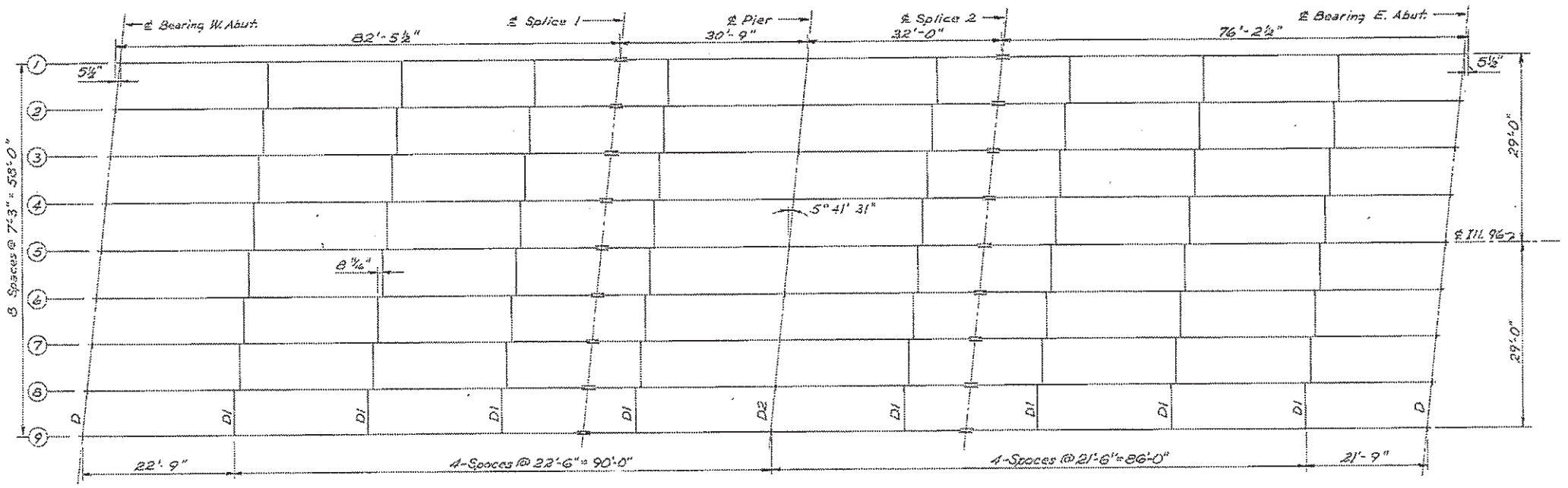
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	06 BDGE PAINTING 2015	ADAMS	30	5
		CONTRACT NO. 72H36		
	ILLINOIS	FED. AID PROJECT		

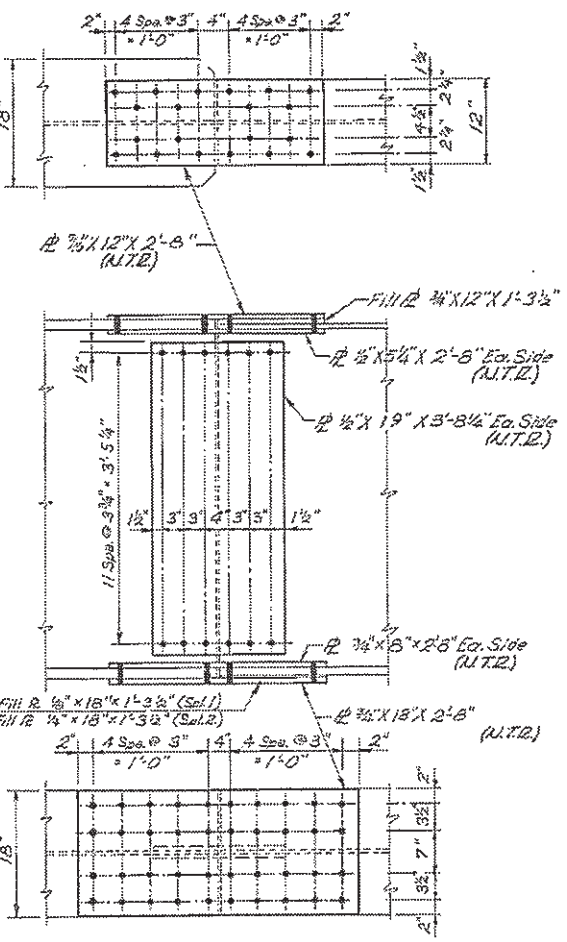
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 407	1-5HB	ADAMS	12.1	59
FED. ROAD PROJ. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. 7
11 SHEETS



FRAMING PLAN



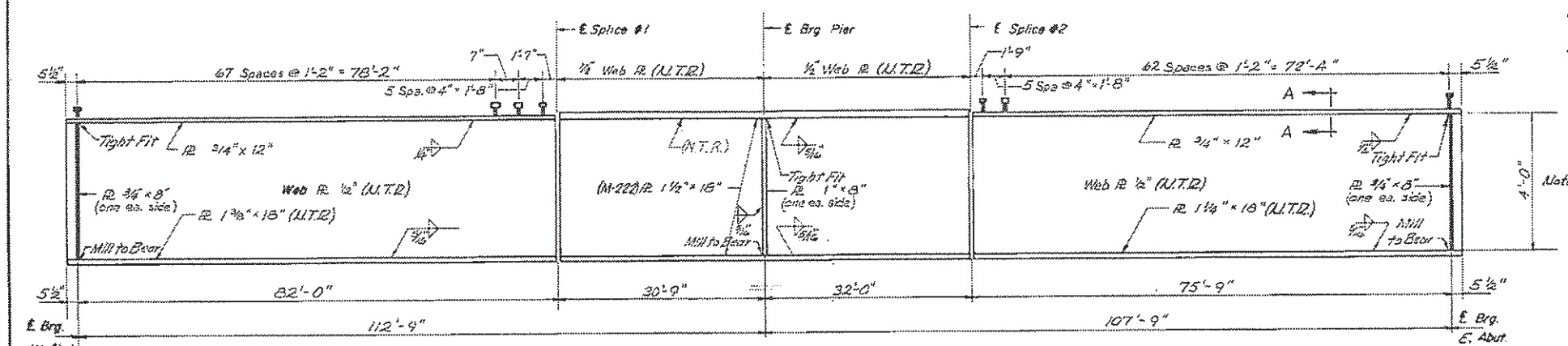
Note: The main load carrying member components subject to the supplemental requirements for notch toughness are the flanges as designated in the elevation view along with the webs and all splice plates of the steel girders.

M.T.12 indicates notch toughness requirements.

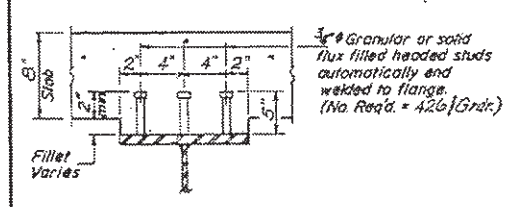
Note: 1¹⁵⁄₁₆" ø holes in Bent plates and angles for diaphragms using ⅞" ø bolts. Hardened washers shall be required over 1¹⁵⁄₁₆" ø holes.

SPLICE DETAILS

(All Bolts ⅞" H.S.)



GIRDER ELEVATION



SECTION A-A

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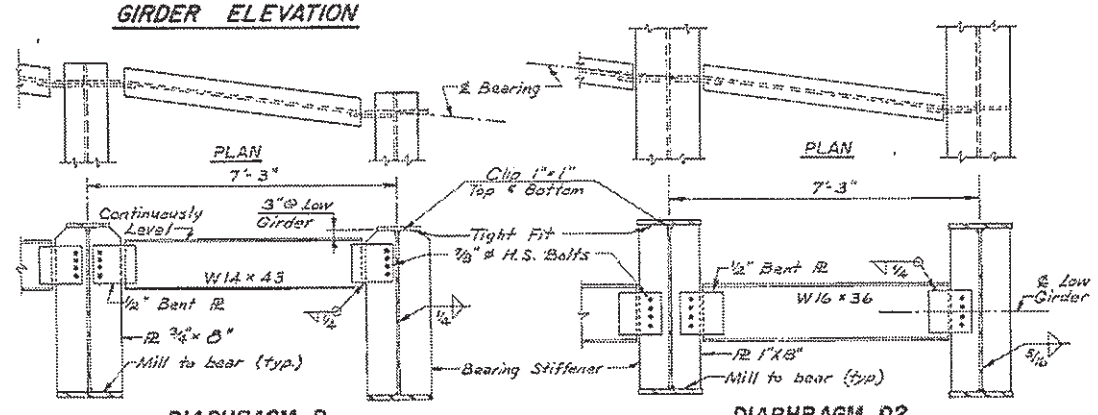
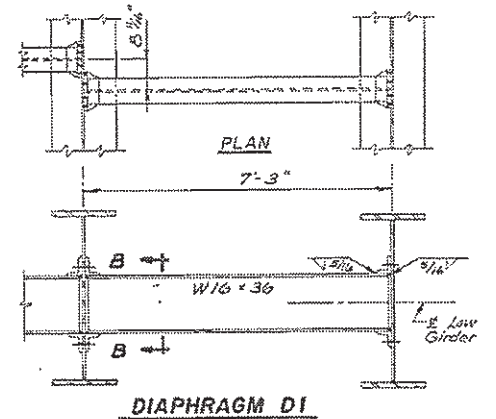
DRAWN	MVM
CHECKED	HMW

G-1 7-1-72



DIAPHRAGM D

DIAPHRAGM D2



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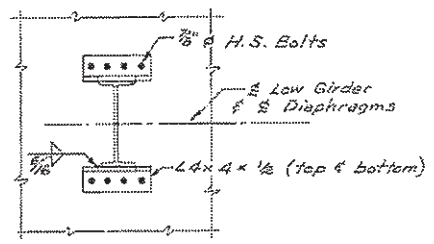

SECTION B-B

STRUCTURAL STEEL

F.A.P. RTE. 407 – SEC. 1-5HB
ADAMS COUNTY
STATION 56+09.43

Rev. 8-4-75

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

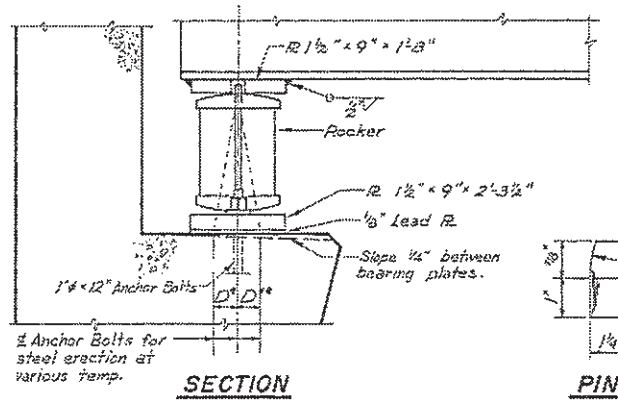
EXSITING SN: 001-0044
FOR INFORMATION ONLY

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

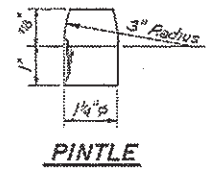
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	D6 BDGE PAINTING 2015	ADAMS	30	6
		CONTRACT NO. 72H36		
	ILLINOIS FED. AID PROJECT			

ROUTE NO	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
FA 407	1-5HB	ADAMS	161	40
STA		TO STA		
FED ROAD DIST. NO 7	ILLINOIS	PROJECT		

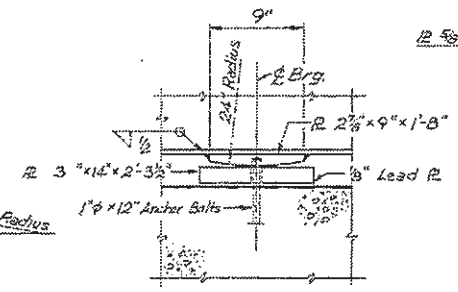
SHEET NO. 8
// SHEETS



SECTION



PINTLE



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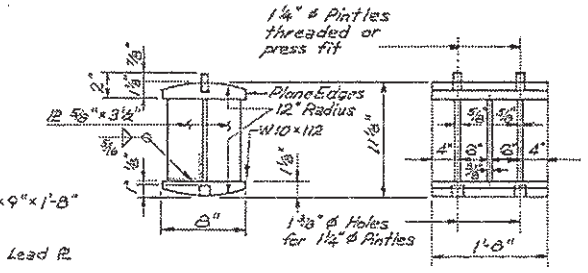
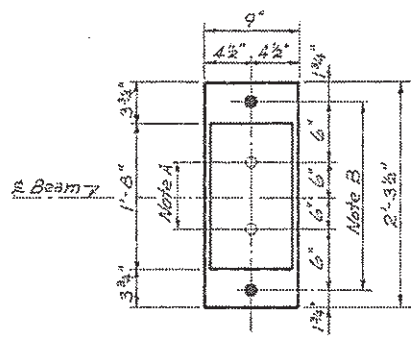
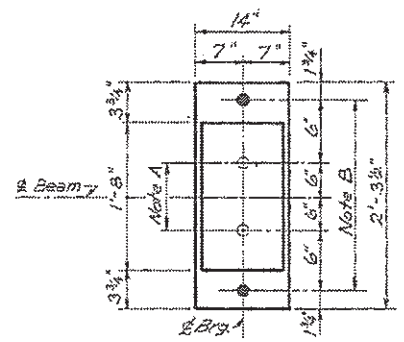


ROCKER



PLAN AT ABUTMENTS

BEARING ASSEMBLY DETAILS



PLAN AT PIER

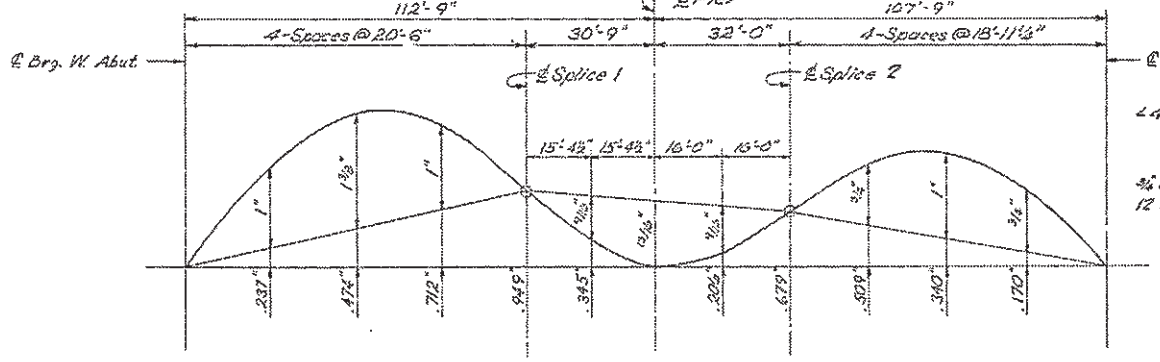
Note A
1⅛" ø Holes - 1" deep in top PL for pintles. Thread or press fit pintles into bottom PL

Note B
1½" ø Holes for 1" ø Anchor Bolts. 5⅛" x 2½" x 2½" PL washers under nut.

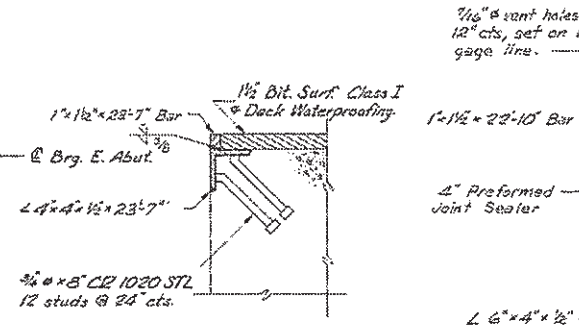
NOTES ON SETTING ANCHOR BOLTS AT EXPANSION BEARINGS

a.) D* (Side of brg. away from fixed brg.) D* = ⅛" per each 100' of expansion for every 15° fall below the normal temperature of 50°F.
D** (Side of brg. toward fixed brg.) D** = ⅛" per 100' of expansion for every 15° rise above the normal temp. of 50°F.

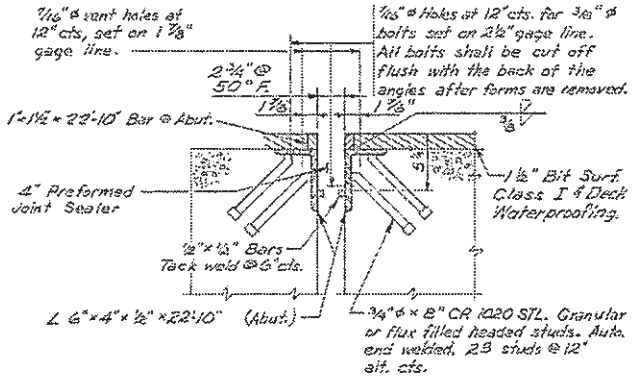
b.) After beams have been erected and dimensions D* and D** determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.



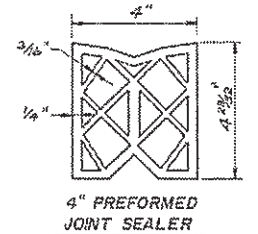
CAMBER DIAGRAM



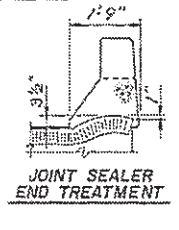
DETAIL "B"



DETAIL "A"



4" PREFORMED JOINT SEALER



JOINT SEALER END TREATMENT

MOMENT & SHEAR TABLE

		0.4 Span 1	Pier	0.6 Span 2
Is	(in.⁴)	22,388	37697	21584
Ss	(in.³)	1204	1478	1123
DL	(k/ft.)	0.927	0999	0.922
MDL	(ft-k)	755	1481	628
fs DL	(ksi)	7.52	13.64	6.71
Ic (n=30)	(in.⁴)	44,600	—	40455
Sc	(in.³)	1535	—	1390
SDL	(k/ft.)	0.330	0.330	0.330
MSDL	(ft-k)	327.3	440	284
fs SDL	(ksi)	2.33	3.57	2.22
Ic (n=10)	(in.⁴)	64,880	—	57,714
Sc	(in.³)	1683	—	1513
MLL	(ft-k	974	762	915
MIMP	(ft-k)	205	164	197
MTOTAL	(ft-k)	1179	926	1112
fs (LL+I)	(ksi)	8.41	7.51	8.82
fs TOTAL	(ksi)	18.3	24.7	17.75
VR		56.3	—	56.9

Is and Ss are the moment of inertia and section modulus of the steel section. Ic and Sc are the moment of inertia and section modulus of the composite section used in computing fs.
VR is the maximum LL+I impact shear range in a span.

REACTION TABLE

	Abutment	Pier
R DL (k)	60.6	209.1
R LL (k)	47.6	78.3
Imp. (k)	10.1	16.5
R TOTAL (k)	118.5	303.9

TOP OF WEB ELEVATIONS *

	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6	Girder 7	Girder 8	Girder 9
℄ Brg. W. Abut.	545.048	545.202	545.324	545.447	545.569	545.465	545.361	545.257	545.132
℄ Splice 1	544.024	544.175	544.298	544.421	544.545	544.441	544.338	544.235	544.100
℄ Pier	543.530	543.684	543.810	543.931	544.055	543.952	543.849	543.746	543.611
℄ Splice 2	543.113	543.268	543.392	543.516	543.640	543.537	543.434	543.331	543.197
℄ Brg. E. Abut.	541.927	542.083	542.208	542.332	542.456	542.354	542.252	542.150	542.017

* For Fabrication Only

DESIGNED	MVM
CHECKED	HMW
DRAWN	MVM
CHECKED	HMW

BEARING DETAILS

F.A.P. RTE. 407 ~ SEC. 1-5HB
ADAMS COUNTY
STATION 56+09.43

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXSITING SN: 001-0044
FOR INFORMATION ONLY

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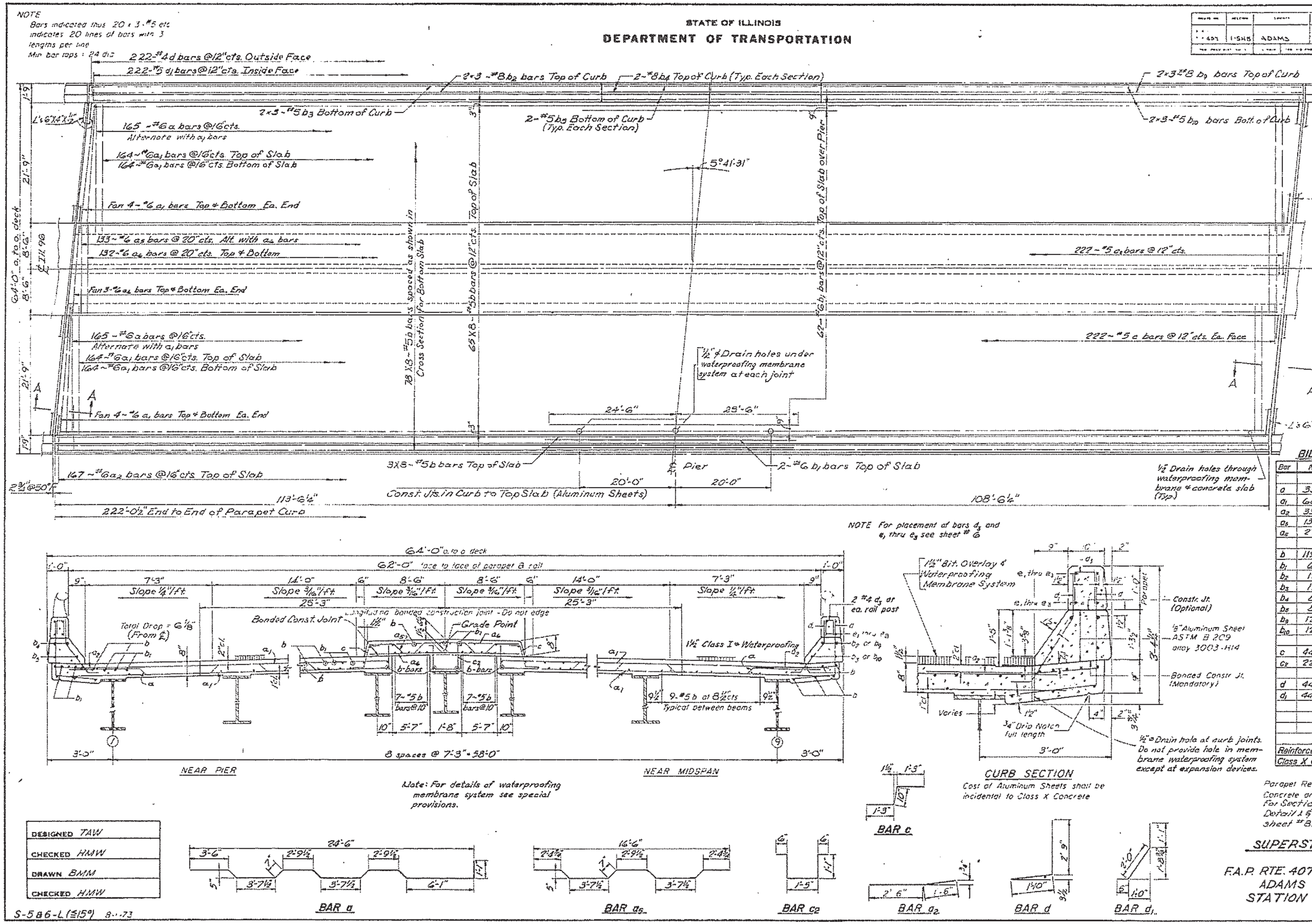
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	D6 BDGE PAINTING 2015	ADAMS	30	7
		CONTRACT NO. 72H36		
		ILLINOIS	FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 5
11 SHEETS

NOTE
Bars indicated thus 20 x 3-#5 cts indicates 20 lines of bars with 3 lengths per line
Min bar laps: 24 dia



222-#4 d bars @12" cts. Outside Face
222-#5 d1 bars @12" cts. Inside Face
2x3-#8 b2 bars Top of Curb
2-#8 b4 Top of Curb (Typ. Each Section)
2x3#8 b9 bars Top of Curb
2x3-#5 b3 Bottom of Curb
2-#5 b5 Bottom of Curb (Typ. Each Section)
2x3-#5 b10 bars Bott. of Curb
165-#6 a bars @16" cts.
Alternate with a1 bars
164-#6 a1 bars @16" cts. Top of Slab
164-#6 a1 bars @16" cts. Bottom of Slab
5°41'31"
Fan 4-#6 a1 bars Top & Bottom Ea. End
133-#6 a5 bars @ 20" cts. Alt. with a6 bars
132-#6 a6 bars @ 20" cts. Top & Bottom
Fan 3-#6 a6 bars Top & Bottom Ea. End
222-#5 c2 bars @ 12" cts.
222-#5 c bars @ 12" cts. Ea. Face
78 X 8-#5 b bars spaced as shown in Cross Section for Bottom Slab
65 X 8-#5 b bars @ 12" cts. Top of Slab
62-#6 b1 bars @ 12" cts. Top of Slab over Pier
½" φ Drain holes under waterproofing membrane system at each joint
L's 6"X4"X½"
24'-6"
25'-6"
3X8-#5 b bars Top of Slab
℄ Pier
2-#6 b1 bars Top of Slab
20'-0"
20'-0"
167-#6 a2 bars @16" cts. Top of Slab
Const. Jts. in Curb to Top Slab (Aluminum Sheets)
113'-6¼"
108'-6¼"
222'-0½" End to End of Parapet Curb
64'-0" o. to o. deck
½" Drain holes through waterproofing membrane & concrete slab (Typ.)
NOTE For placement of bars d1 and e1 thru e3 see sheet # 6
64'-0" o. to o. deck
62'-0" face to face of parapet & rail
Slope ¼"/Ft.
Slope 3/16"/Ft.
Slope 3/16"/Ft.
Slope 3/16"/Ft.
Slope 3/16"/Ft.
Slope ¼"/Ft.
25'-3"
25'-3"
Total Drop = 6⅛" (From ℄)
Bonded Const. Joint
Grade Point
1½" Class I Waterproofing
2 #4 d1 at ea. rail post
7-#5 b bars @10
9-#5 b at 8½" cts. Typical between beams
8 spaces @ 7'-3" = 58'-0"
NEAR PIER
NEAR MIDSPAN
Note: For details of waterproofing membrane system see special provisions.
1½" Bit. Overlay & Waterproofing Membrane System
Constr. Jt. (Optional)
⅛" Aluminum Sheet ASTM B 209 alloy 3003-H14
Bonded Constr. Jt. (Mandatory)
¾" Drip Notch full length
Varies
3'-0"
½" φ Drain hole at curb joints. Do not provide hole in membrane waterproofing system except at expansion devices.
CURB SECTION
Cost of Aluminum Sheets shall be incidental to Class X Concrete
BAR c
BAR a
BAR a5
BAR c2
BAR a2
BAR d
BAR d1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	330	#6	26'-5"	
a1	668	#6	24'-6"	
a2	334	#6	4'-0"	
a5	133	#6	17'-2"	
a6	276	#6	16'-6"	
b	1192	#5	28'-10"	
b1	66	#6	50'-0"	
b2	12	#8	32'-6"	
b3	12	#5	32'-0"	
b4	8	#8	19'-9"	
b5	8	#5	19'-9"	
b9	12	#8	30'-9"	
b10	12	#5	30'-3"	
c	444	#5	3'-4"	
c2	222	#5	4'-7"	
d	444	#4	4'-7"	
d1	444	#5	3'-7"	
Reinforcement Bars			Lbs.	100,507
Class X Concrete			Cu. Yds.	426.5

Parapet Reinforcement and Class X Concrete are billed on sheet # 6. For Section A-A see sheet # 4. For Detail 1 & Jt. Sealer Details see sheet # 8.

SUPERSTRUCTURE

F.A.P. RTE. 407 ~ SEC. 1-5HB
ADAMS COUNTY
STATION 56+09.43

DESIGNED	TAW
CHECKED	HMW
DRAWN	BMM
CHECKED	HMW

S-5 & 6-L (≤15°) 8-73

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXSITING SN: 001-0044
FOR INFORMATION ONLY

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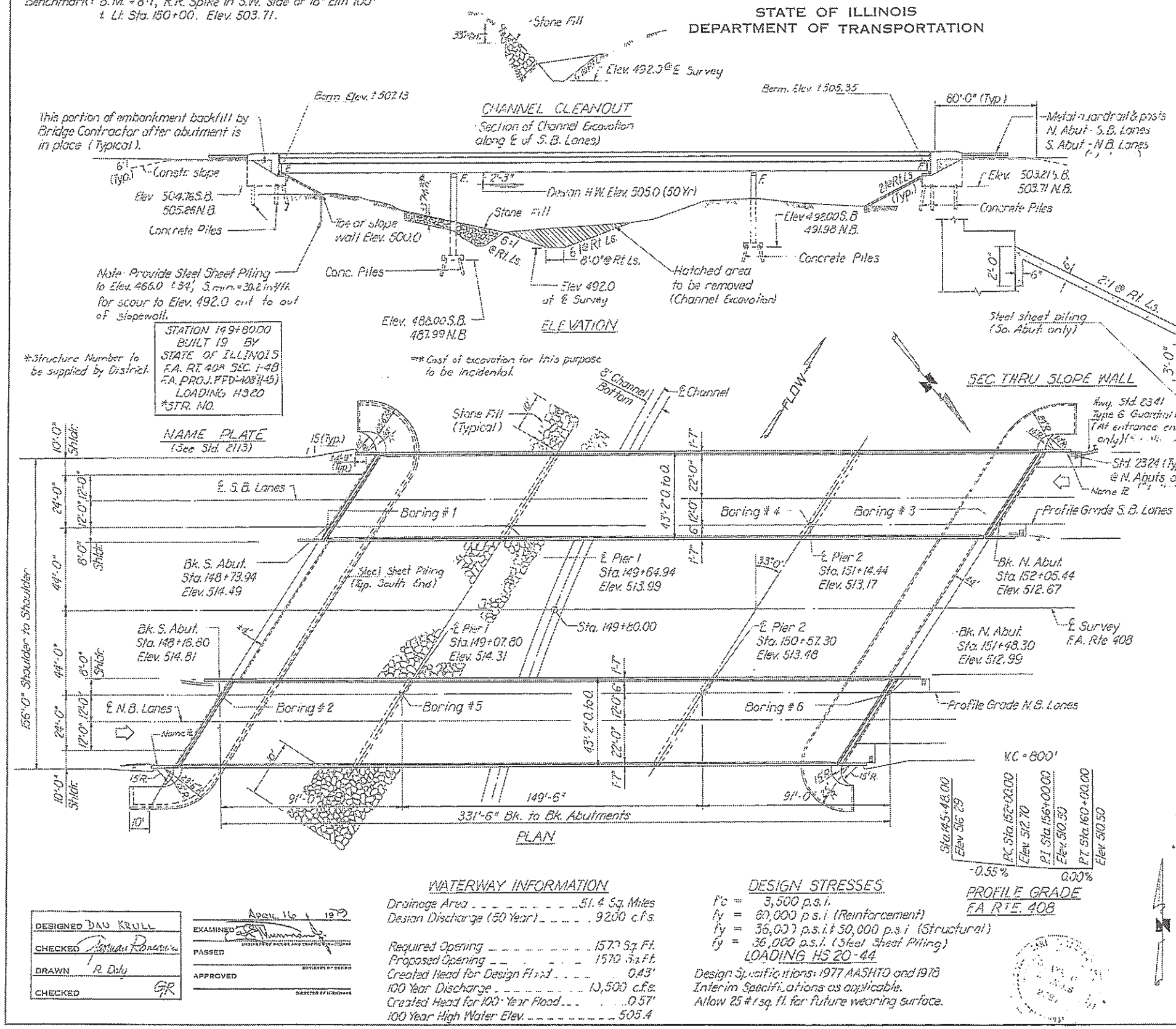
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	D6 BDGE PAINTING 2015	ADAMS	30	8
		CONTRACT NO. 72H36		
		ILLINOIS FED. AID PROJECT		

Benchmark: B.M. #8-1, R.R. Spike in S.W. side of 18" Elm 100' ± Lt. Sta. 150+00. Elev. 503.71.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. No. 488	1-4B	ADAMS	40	8

SHEET NO. 1
22 SHEETS



GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.

See Proposal for Boring Data.

Fasteners shall be high strength bolts. Bolts ⅞", open holes 1⅛" ø, unless otherwise shown.

Calculated weight of Structural Steel: M183 = 371,580 Lbs., M283 = 548,420 Lbs.

The basic lead silico chromate paint system shall be used for shop and field painting of Structural Steel.

Field welding of construction accessories will not be permitted to the bottom flange of girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.

Anchor bolts shall be set before bolting cross frames over supports.

Slope wall shall be reinforced with welded wire fabric 6" x 6" mesh, weighing 58 lbs. per 100 sq. ft.

Layout of slope walls may be varied in the field to suit ground conditions as directed by the Engineer.

The Contractor shall drive (4) concrete test piles in a permanent location; One at South Abutment S.B.L., one at North Abutment N.B.L., one at Pier 2 S.B.L. and one at Pier 1 N.B.L. as directed by the Engineer before ordering the remainder of piles.

The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of ¼ inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two ⅛" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.

The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the tension flanges, webs and all splice plate material of the steel girders.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Name Plates	Each	2		2
Protective Coat	Sq. Yd.	3444	48	3492
Class X Concrete	Cu. Yd.	824.0	599.6	1423.6
Structural Steel	Lump Sum	1		1
Stud Shear Connectors	Each	5580		5580
Reinforcement Bars	Pound	86,610	40,350	126,960
Reinforcement Bars (Epoxy Coated)	Pound	137,440		137,440
Concrete Piles	Lin. Ft.		3145	3145
Test Piles Concrete	Each		4	4
Slope Wall (6")	Sq. Yd.		870	870
Neoprene Expansion Joint (4")	Lin. Ft.	100		100
Neoprene Expansion Joint (2")	Lin. Ft.	100		100
Cofferdam Excavation	Cu. Yd.		684	684
Cofferdam Pier 1 (South Bound Structure)	Each		1	1
Cofferdam Pier 1 (North Bound Structure)	Each		1	1
Cofferdam Pier 2 (South Bound Structure)	Each		1	1
Cofferdam Pier 2 (North Bound Structure)	Each		1	1
Steel Sheet Piling	Sq. Ft.		9890	9890
* Stone Fill	Tons		1170	1170
Seal Coat Concrete	Cu. Yd.		169.4	169.4

* See Special Provisions.

WATERWAY INFORMATION

Drainage Area ..... 51.4 Sq. Miles
Design Discharge (50 Year) ..... 9200 c.f.s.

Required Opening ..... 1570 Sq. Ft.
Proposed Opening ..... 1570 Sq. Ft.
Created Head for Design Flood ..... 0.43'
100 Year Discharge ..... 10,500 c.f.s.
Created Head for 100 Year Flood ..... 0.57'
100 Year High Water Elev. 505.4

DESIGN STRESSES

f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (Reinforcement)
fy = 36,000 p.s.i. & 50,000 p.s.i. (Structural)
fy = 36,000 p.s.i. (Steel Sheet Piling)

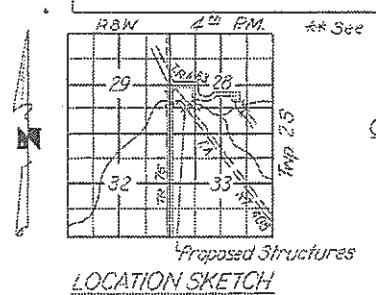
LOADING HS 20-44

Design Specifications: 1977 AASHTO and 1978 Interim Specifications as applicable.
Allow 25 #/sq. ft. for future wearing surface.

DESIGNED Dan Krull
CHECKED Gautam Ramanna
DRAWN R. Daly
CHECKED GR

EXAMINED April 16, 1979
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

Revised: 6-5-79 R.D.



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
F.A. ROUTE 408 OVER BURTON CREEK
F.A. ROUTE 408 SECTION 1-4B
ADAMS COUNTY
STATION 149+60.00 (℄ CHANNEL)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXSITING SN: 001-0055/56
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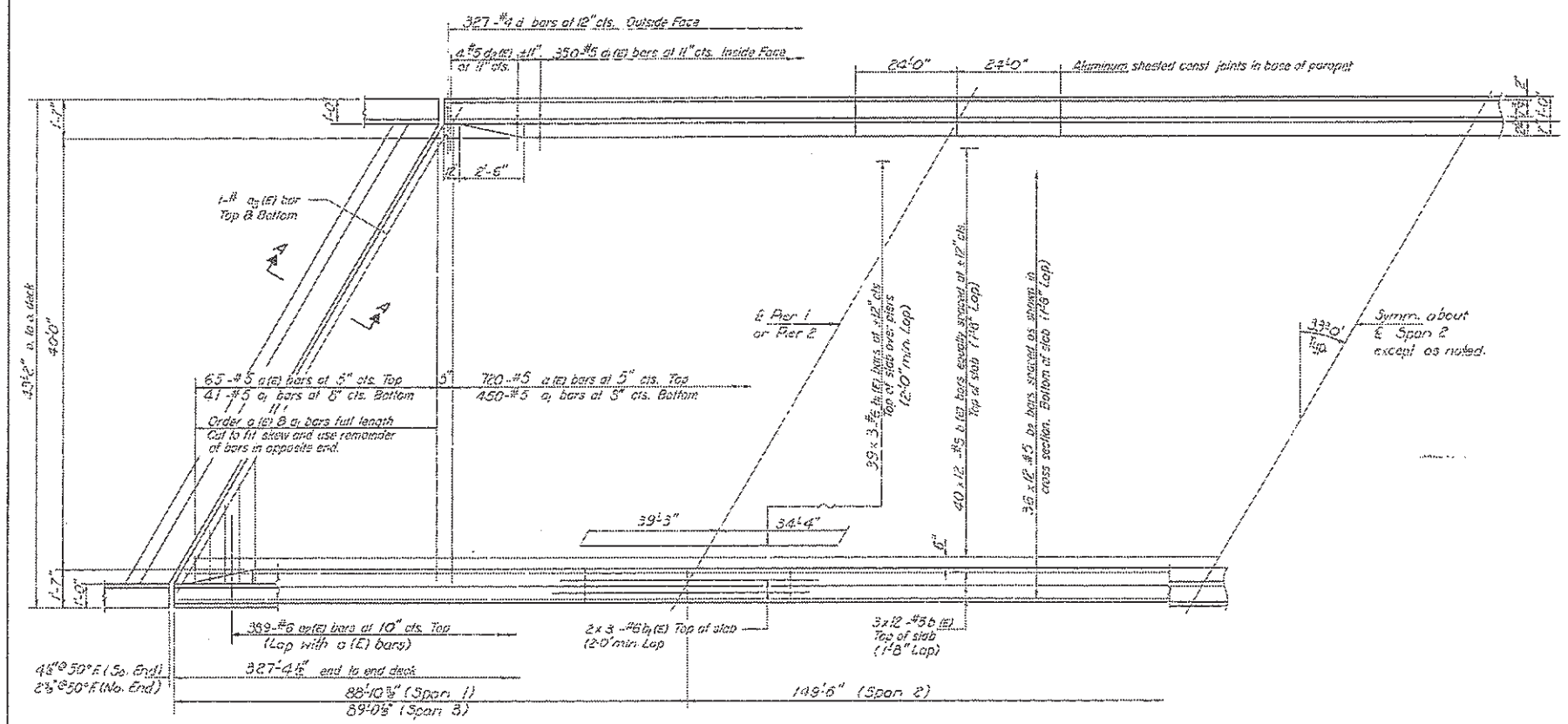
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	D6 BDGE PAINTING 2015	ADAMS	30	9
		CONTRACT NO. 72H36		
		ILLINOIS FED. AID PROJECT		

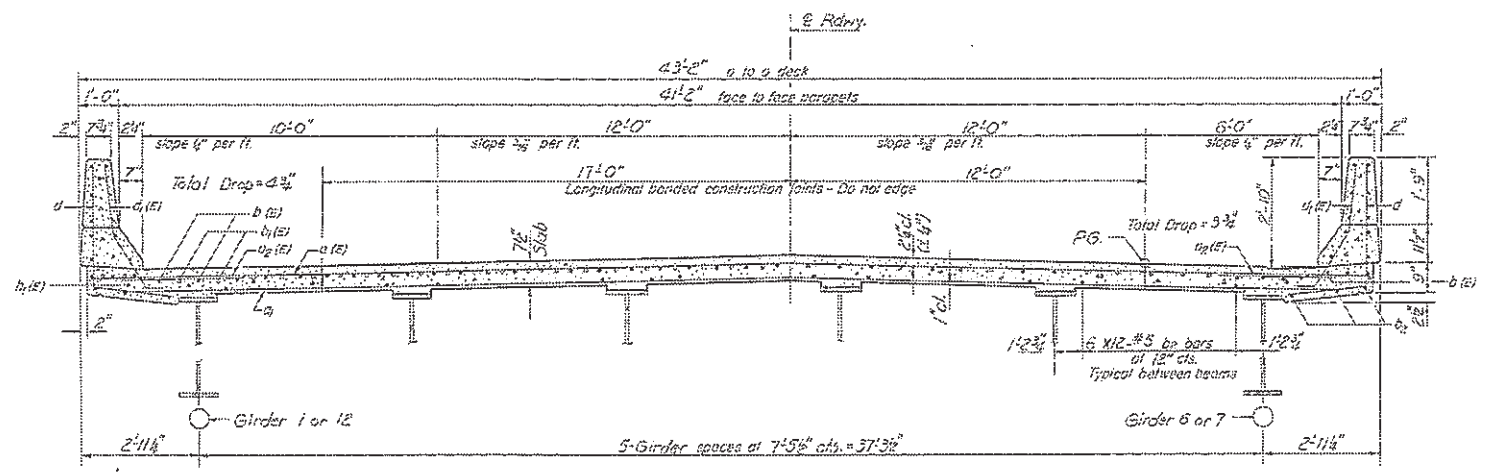
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 172	1-4B	ADAMS	30	10
FED. ROAD PROJ. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. 7
22 SHEETS



HALF PLAN



CROSS SECTION
(LOOKING NORTH-S.B.L.)
(LOOKING SOUTH-N.B.L.)

NOTES:
See sheet #8 for superstructure details and Bill of Material.
Reinforcement bars designated (E) shall be epoxy coated. See Special Provisions.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
For Section A-A see sheet #5.

DESIGNED	DAN KROLL
CHECKED	
DRAWN	R. Doty
CHECKED	

EXAMINED — April 16, 19
PASSED
APPROVED
ENGINEER OF DESIGN
DIRECTOR OF HIGHWAYS

S-I-L (6-15P) 9-27-76

SUPERSTRUCTURE
NORTH AND SOUTH BOUND LANES
F.A. RT. 408 SEC. 1-4B
ADAMS COUNTY
STA. 149+80.00

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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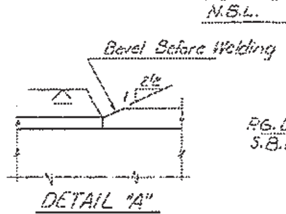
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	D6 EDGE PAINTING 2015	ADAMS	30	10
		CONTRACT NO. 72H36		
	ILLINOIS	FED. AID PROJECT		

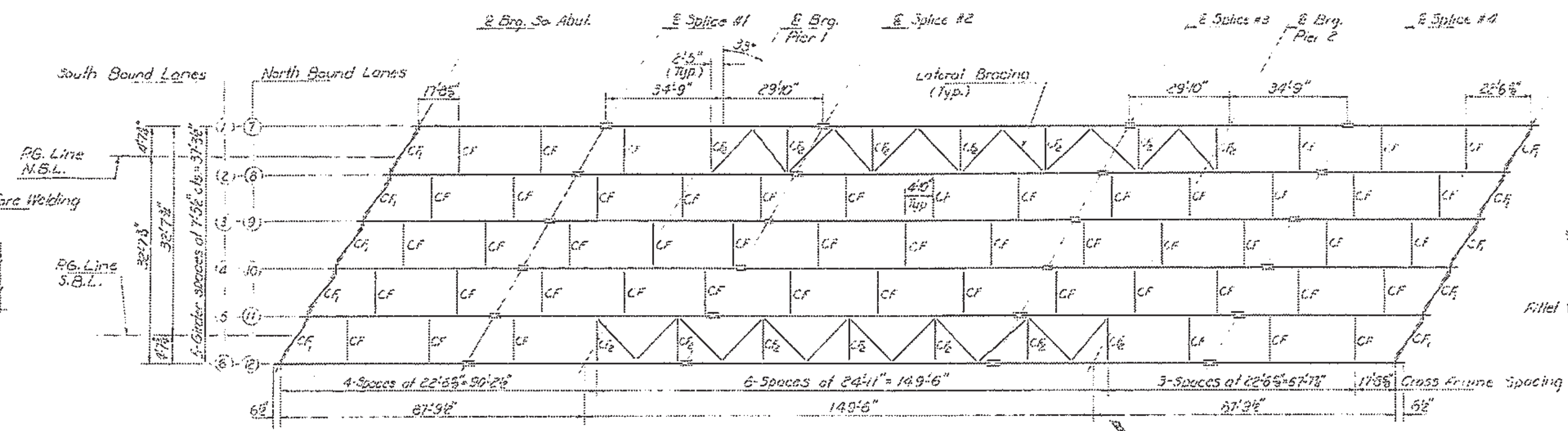
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.R. 408	I-4B	Adams	40	15

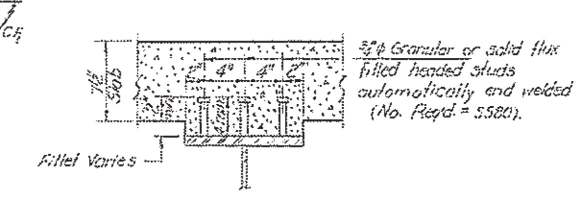
SHEET NO. 11
22 SHEETS



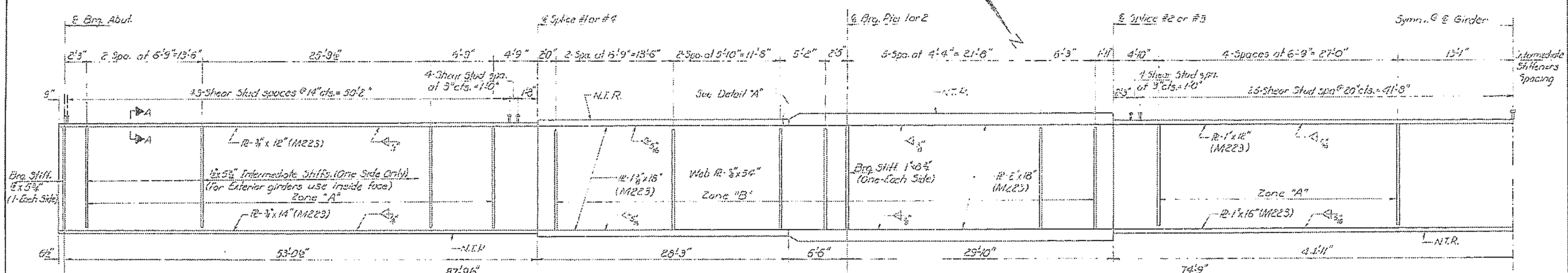
DETAIL "A"



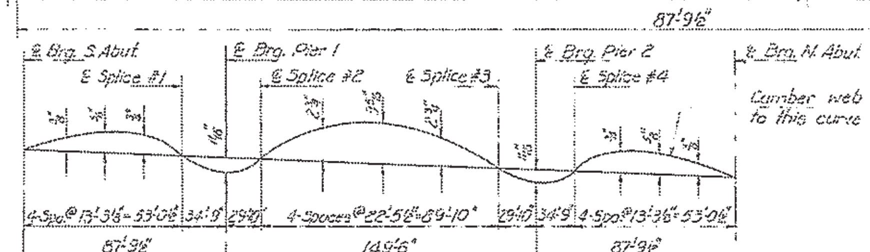
FRAMING PLAN



SEC. A-A



HALF GIRDER ELEVATION



CAMBER DIAGRAM

INTERIOR GIRDER MOMENT TABLE		.3 Sp. 1 or .7 Sp. 3	Pier 1 or 2	.5 Span 2
Is	(in⁴)	19492	61393	25847
Ic	(in⁴)	45516		57785
Ss	(in³)	729.6	2117.0	1004.9
Sc	(in³)	972.8		1279.8
℗	(K/l)	.918	1.267	.969
M℗	('K)	255.6	3040.2	1152.2
Fs ℗	(ksi)	4.20	17.23	13.76
S℗	(K/l)	.323		.323
Ms ℗	('K)	137.8		499.9
M L	('K)	1406.3	2254.5	2263.1
M Imp	('K)	330.5	471.2	415.5
Total	('K)	1874.6	2725.7	3198.5
Fs S℗+L (ksi)		23.12	15.45	29.99
Fs Total (ksi)		27.32	32.66	43.75
VR	(K)	63.7		51.8

Note: Load factors 1.3[℗+5/3(L+I)] is used for computing moments.
Is and Ss are the moment of inertia and section modulus of the steel section.
Ic and Sc are the moment of inertia and section modulus of the composite section used in computing fs.
VR is the maximum L+Impact shear range in span.

INTERIOR GIRDER REACTION TABLE		Abuts.	Piers
R℗	(k)	27.8	177.7
RL	(k)	42.3	79.8
Imp.	(k)	9.9	16.7
R TOTAL	(K)	80.0	274.2

Notes:
Dimensions are given along ℄ Girder.
Intermediate stiffeners in Zone "A" shall be under cut 1⅛" at the bottom only.
Intermediate stiffeners in Zone "B" shall be under cut 1⅛" at the top only.
For remainder of Structural Steel details see sheet #12.
N.T.R. designates Notch Toughness Requirement.
All Flange PLs shall be M223, Grade 50.

STRUCTURAL STEEL
NORTH AND SOUTH BOUND LANES
F.A. RT. 408 SEC. I-4B
ADAMS COUNTY
STA. 149+80.00

DESIGNED Dan Krull
CHECKED
DRAWN R. Daly
CHECKED
EXAMINED Apr. 16 1979
PASSED
APPROVED

FILE NAME =	USER NAME = kadirmo	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXSITING SN: 001-0055/56
FOR INFORMATION ONLY

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

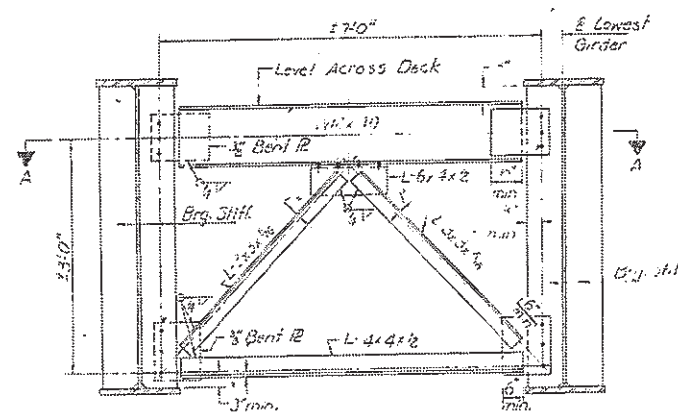
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	D6 BDGE PAINTING 2015	ADAMS	30	11

CONTRACT NO. 72H36
ILLINOIS FED. AID PROJECT

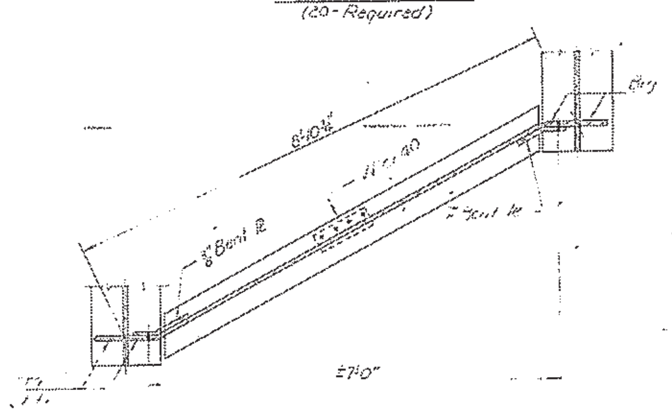
Route No.	Section	County	Total Sheets	Sheet No.
F.A.S. 408	I-4B	ADAMS	20	19

SHEET NO. 12
22 SHEETS

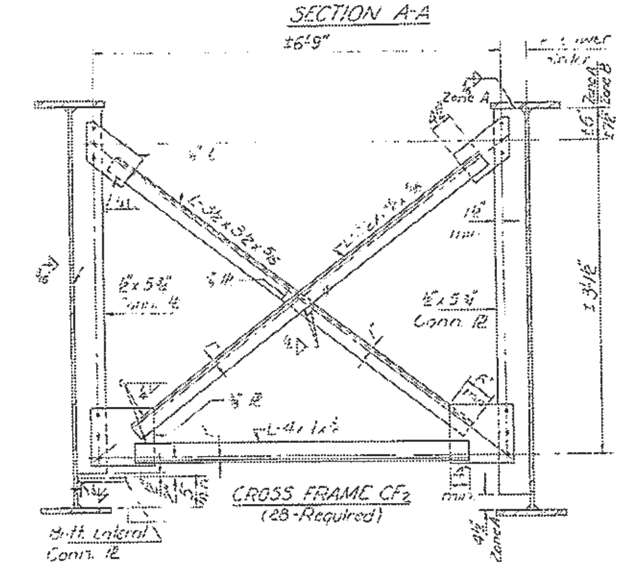
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



CROSS FRAME CF
(20-Required)



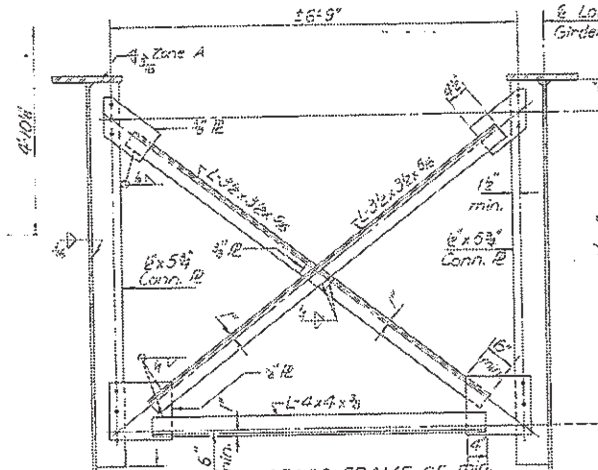
SECTION A-A
±6'-9"



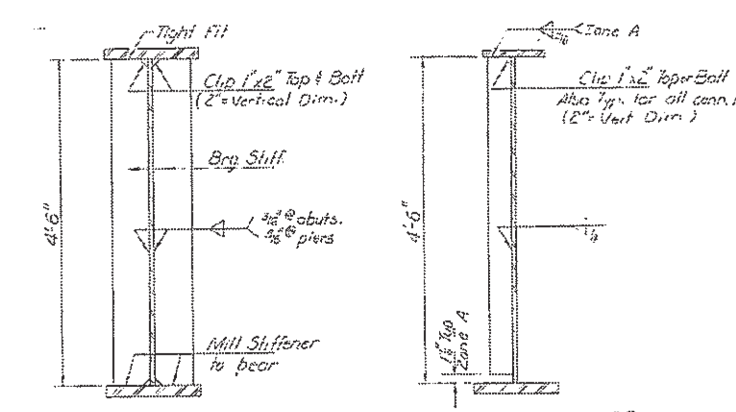
CROSS FRAME CF₂
(28-Required)

TOP OF WEB ELEVATIONS
(Before any deflection)

Location	℄ Brg. S. Abut.	℄ Splice #1	℄ Brg. Pier 1	℄ Splice #2	℄ Splice #3	℄ Brg. Pier 2	℄ Splice #4	℄ Brg. N Abut.
Girder 1	513.45	513.05	512.91	512.79	512.30	512.09	511.84	511.66
Girder 2	513.63	513.23	513.09	512.97	512.48	512.27	512.02	511.85
Girder 3	513.78	513.38	513.24	513.12	512.63	512.42	512.17	511.99
Girder 4	513.87	513.47	513.33	513.21	512.72	512.51	512.26	512.08
Girder 5	513.76	513.38	513.24	513.12	512.63	512.42	512.17	511.99
Girder 6	513.67	513.26	513.13	513.01	512.51	512.30	512.06	511.86
Girder 7	513.95	513.54	513.41	513.29	512.80	512.59	512.34	512.16
Girder 8	514.12	513.71	513.57	513.46	512.96	512.75	512.51	512.33
Girder 9	514.22	513.85	513.72	513.60	513.11	512.90	512.65	512.43
Girder 10	514.22	513.82	513.68	513.56	513.07	512.86	512.61	512.43
Girder 11	514.13	513.72	513.59	513.47	512.97	512.76	512.52	512.34
Girder 12	514.00	513.59	513.46	513.34	512.85	512.64	512.39	512.21



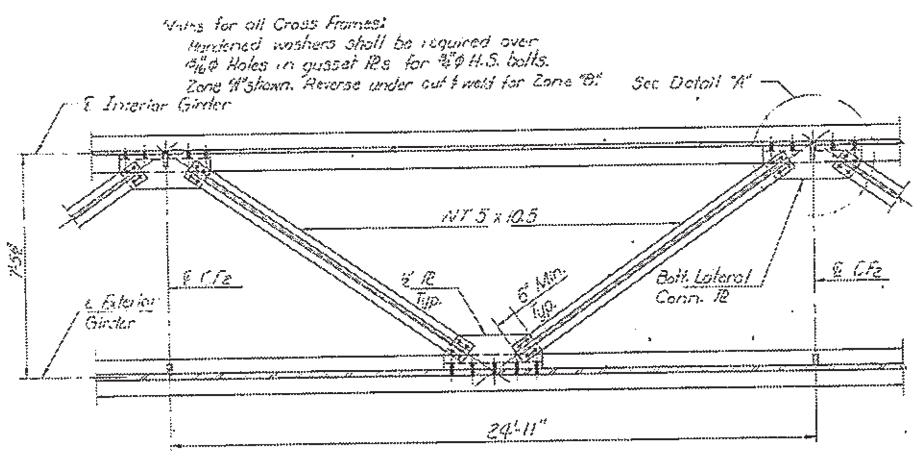
CROSS FRAME CF
(102-Required)



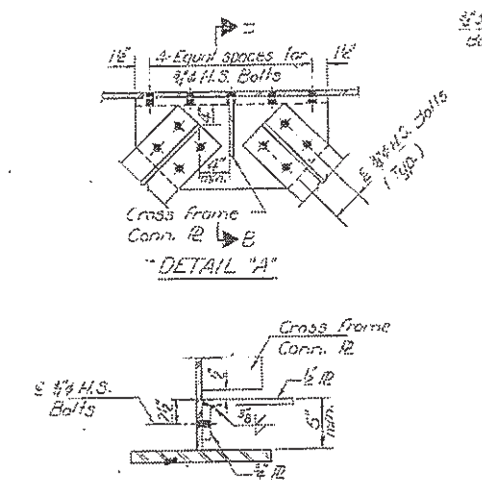
SECTION THRU GIRDER AT BRGS.

SECTION THRU GIRDER AT INTERMEDIATE VERTICAL STIFFENERS
(Reverse under cut & weld at flange for Zone B)

Notes for all Cross Frames:
Hardened washers shall be required over 13/16"⌀ Holes in gusset ℞s for ¾"⌀ H.S. bolts.
Zone "A" shown. Reverse under cut & weld for Zone "B".



TYPICAL LATERAL BRACING PLAN



"DETAIL "A""

SECTION B-B

Top Flange Splice
℞-⅝"x12"x2'-7" (Splice 1 & 4)
℞-⅞"x12"x2'-7" (Splice 2 & 3)

Filler ℞-⅝"x12"x1'-3⅞" (Splice 1 & 4)
Filler ℞-1"x12"x1'-3⅞" (Splice 2 & 3)

Web Splice
℞-⅜"x19"x4'-0" (Splice 1 & 4)
℞-⅜"x19"x4'-1" (Splice 2 & 3)
(One Each Side)

Bottom Flange Splice
℞-⅞"x14"x3'-1" (Splice 1 & 4)
℞-⅞"x16"x3'-1" (Splice 2 & 3)

FIELD SPLICE DETAIL
(Splice 1 & 3 Looking West)
(Splice 2 & 4 Looking East)
All Splice ℞s shall be M223, Grade 50.

STRUCTURAL STEEL DETAILS
F.A. RT. 408 SEC. I-4B
ADAMS COUNTY
STA. 149+80.00

DESIGNED	Dan Krull
CHECKED	[signature]
DRAWN	R. Doty
CHECKED	GR

EXAMINED April 16 1979 [signature]
PASSED
APPROVED

Rev 6-5-79

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXSITING SN: 001-0055/56
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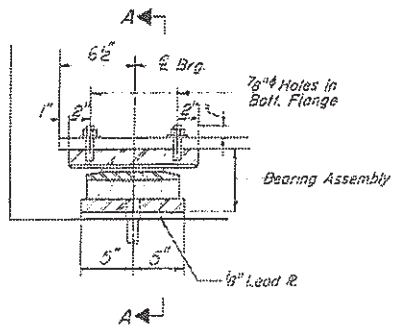
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	D6 BDGE PAINTING 2015	ADAMS	30	12

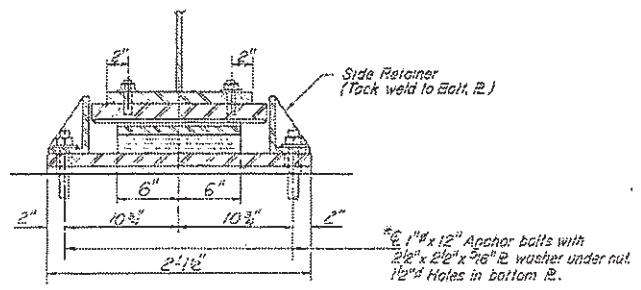
CONTRACT NO. 72H36
ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

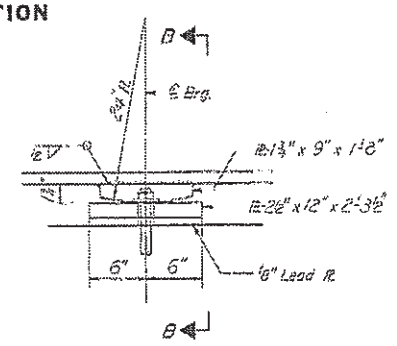
					SHEET NO. 13
					22 SHEETS
149	1-4B	ADAMS	40	25	



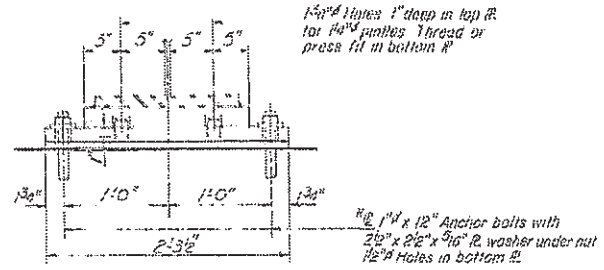
SECTION AT 50. ABUT.



SECTION A-A



ELEVATION AT PIER 2

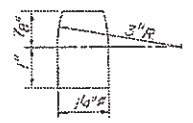


SECTION B-B

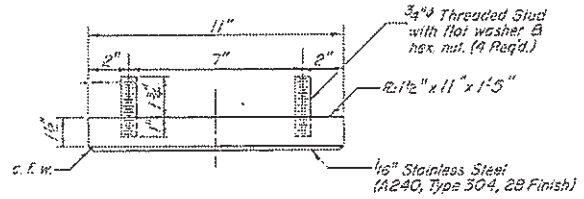
TYPE II TFE ELASTOMERIC EXP. BRG.

*Note: After beams have been erected holes at expansion bearings shall be drilled and anchor bolts grouted in place. Anchor bolts at fixed bearings may be built into the masonry.

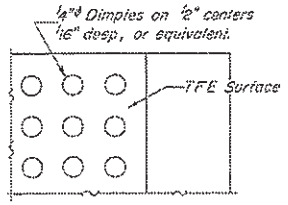
FIXED BEARING



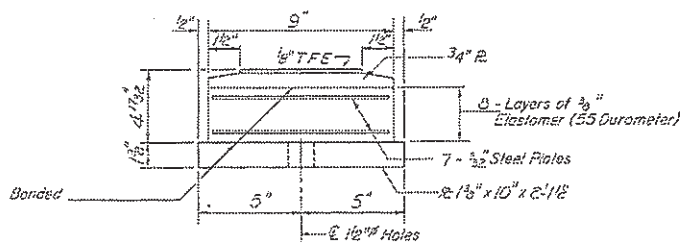
PINTLE



TOP BEARING ASSEMBLY



PLAN - TFE SURFACE



BOTTOM BEARING ASSEMBLY

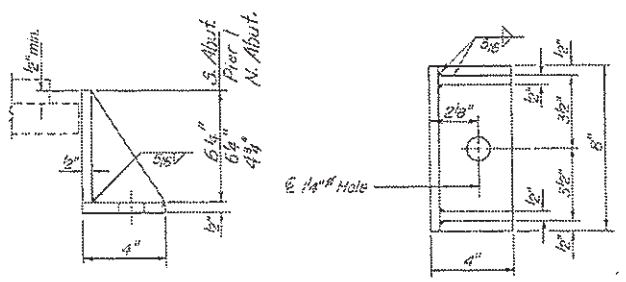
SECTION THRU TFE

Note: The ⅛" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of ⅛" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

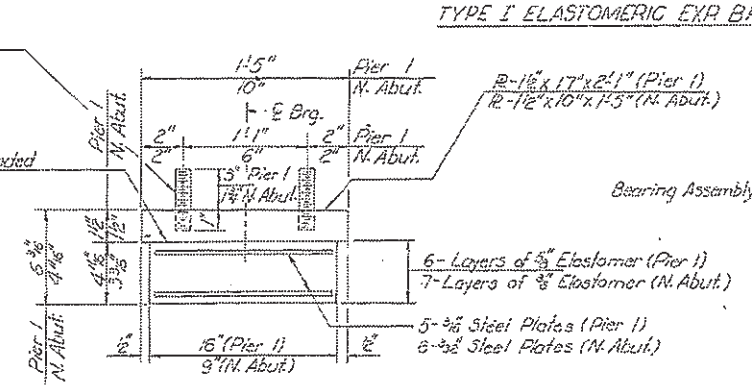
SECTION AT PIER 1

SECTION C-C



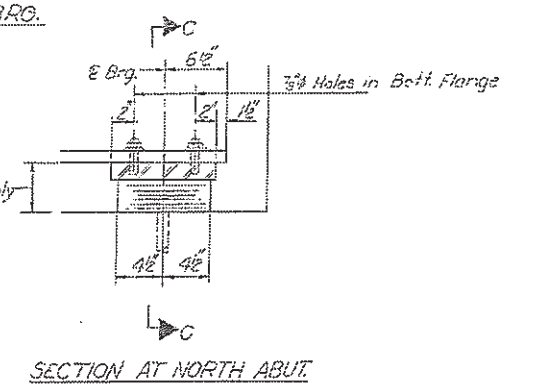
SIDE RETAINER

Quantity included with Structural Steel.

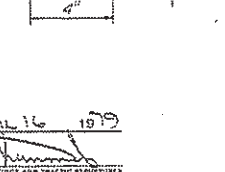


BEARING ASSEMBLY

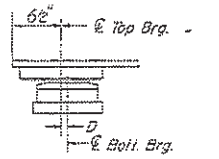
TYPE I ELASTOMERIC EXP. BRG.



SECTION AT NORTH ABUT.



BELOW 50°F
(Move bott. brg. away from fixed brg.)



ABOVE 50°F
(Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG. TYPE II

D = ⅛" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

DESIGNED	Dan Krull	April 16 1979
CHECKED	Matthew Pontarelli	EXAMINED
DRAWN	R. Doty	PASSED
CHECKED	GR	APPROVED

ENGINEER OF BRIDGES
DIRECTOR OF HIGHWAYS

I-2-E2 12-1-78

BEARING DETAILS
F.A. RT. 408 SEC. 1-4B
ADAMS COUNTY
STA. 149+80.00

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXSITING SN: 001-005556
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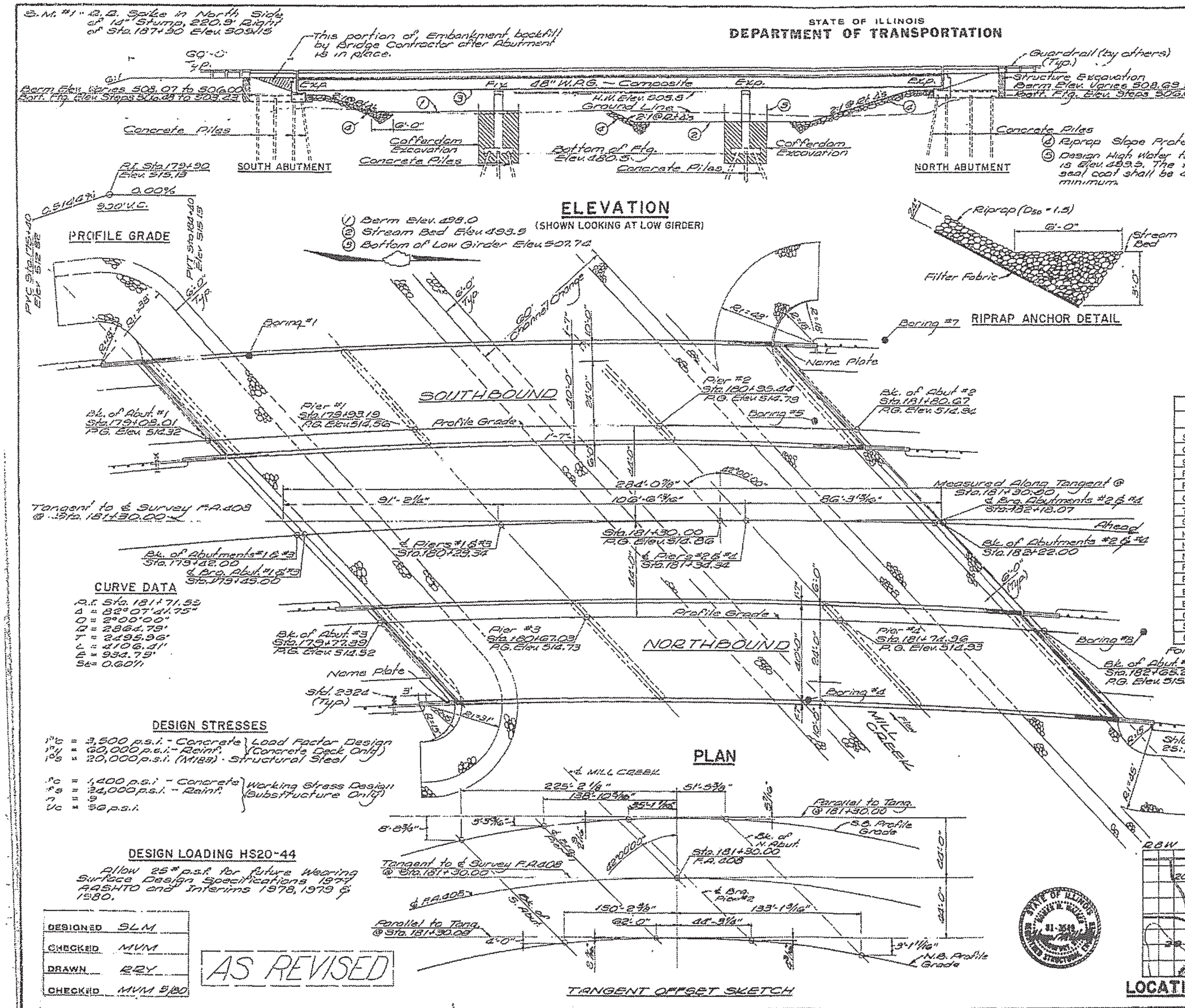
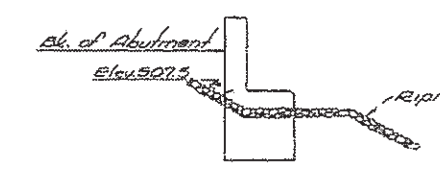
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	06 BDGE PAINTING 2015	ADAMS	30	13
		CONTRACT NO. 72H36		
	ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION


B.M. #1 - R.R. Spike in North Side of 14" Stump, 220.9' Right of Sta.187+30 Elev. 509.15
This portion of Embankment backfill by Bridge Contractor after Abutment is in place.
Guardrail (by others) (Typ.)
Structure Excavation
Berm Elev. Varies 508.69 to 506.47
Bott. Ftg. Elev. Steps 506.64 to 503.44
Berm Elev. Varies 508.07 to 506.00
48" W.P.G. ~ Composite
Hi.Elev. 505.8
Ground Line
Concrete Piles
Cofferdam Excavation
Bottom of Ftg. Elev. 480.5
SOUTH ABUTMENT
NORTH ABUTMENT
④ Riprap Slope Protection
⑤ Design High Water for cofferdam is Elev. 489.5. The foundation seal coat shall be 4 ft. thick, minimum.
ELEVATION
(SHOWN LOOKING AT LOW GIRDER)
① Berm Elev. 498.0
② Stream Bed Elev. 493.5
③ Bottom of Low Girder Elev. 507.74
PROFILE GRADE
P.I. Sta. 179+90
0.00%
930' V.C.
Riprap (D50 = 1.5)
6'-0"
Stream Bed
Filter Fabric
RIPRAP ANCHOR DETAIL
Boring #1
Boring #7
Boring #5
Boring #4
Boring #3
Name Plate
SOUTHBOUND
NORTHBOUND
Profile Grade
Pier #1 Sta.179+93.19 P.G. Elev. 514.56
Pier #2 Sta.180+95.44 P.G. Elev. 514.79
Pier #3 Sta.180+67.03 P.G. Elev. 514.73
Pier #4 Sta.181+74.96 P.G. Elev. 514.93
Bk. of Abut. #1 Sta.179+09.01 P.G. Elev. 514.32
Bk. of Abut. #2 Sta.181+80.67 P.G. Elev. 512.94
Bk. of Abut. #3 Sta.179+77.93 P.G. Elev. 512.32
Bk. of Abut. #4 Sta.182+65.23 P.G. Elev. 515.04
Measured Along Tangent @ Sta.181+30.00
Tangent to ℄ Survey F.A.408 @ Sta.181+30.00
Sta.181+30.00 P.G. Elev. 514.86
℄ Piers #1 & #3 Sta.180+23.34
℄ Piers #2 & #4 Sta.181+34.34
Bk. of Abutments #1 & #3 Sta.179+42.00
Bk. of Abutments #2 & #4 Sta.182+22.00
Ahead
MILL CREEK
Flow
Note: See Sheet #3 for General Notes.
Shldr. Trans. 25:1 (Typical)
PLAN
CURVE DATA
P.C. Sta. 181+71.55
Δ = 82°07'41.75"
D = 2°00'00"
R = 2864.79'
T = 2495.96'
L = 4106.41'
E = 934.79'
Se = 0.60ft
DESIGN STRESSES
f'c = 3,500 p.s.i. - Concrete
fy = 60,000 p.s.i. - Reinf.
fs = 20,000 p.s.i. (M183) - Structural Steel
Load Factor Design (Concrete Deck Only)
f'c = 1,400 p.s.i. - Concrete
fs = 24,000 p.s.i. - Reinf.
n = 9
Vc = 90 p.s.i.
Working Stress Design (Substructure Only)
DESIGN LOADING HS20-44
Allow 25#p.s.f. for future Wearing Surface Design Specifications 1977 AASHTO and Interims 1978, 1979 & 1980.
TANGENT OFFSET SKETCH
Parallel to Tang. @ Sta.181+30.00
Tangent to ℄ Survey F.A.408 @ Sta.181+30.00
S.B. Profile Grade
N.B. Profile Grade
DESIGNED SLM
CHECKED MVM
DRAWN RRY
CHECKED MVM 5/80
AS REVISED



RIPRAP AT ABUTMENT

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
408	1-4B-1	ADAMS	57	17A

SHEET NO. 1 27 SHEETS

WATERWAY INFORMATION									
DRAINAGE AREA:		LOW GRADE ELEV:				at STA			
FLOOD	FREQ YR	Q CFS	OPENING SQ FT EXIST	OPENING SQ FT PROP	NAT H.W.E.	HEAD-FT EXIST	HEAD-FT PROP	HEADWATER EL EXIST	HEADWATER EL PROP
DESIGN	50	7800	—	1610	505.5	—	0.70	—	506.20
BASE	100	8900	—	1683	505.9	—	0.89	—	506.79
OVERTOPPING	—	—	—	—	—	—	—	—	—
MAX CALC	500	10,870	—	—	506.45	—	—	—	

TOTAL BILL OF MATERIAL

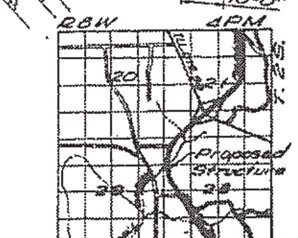
ITEM	UNIT	SUPER.	SUBSTR.	TOTAL
STRUCTURE EXCAVATION	CU.YD.	—	477	477
CLASS "X" CONCRETE	CU YD.	734.8	1,058.2	1,793.0
STRUCTURAL STEEL	LUMP SUM	1	—	1
REINFORCEMENT BARS	LBS.	87,540	104,980	192,520
REINFORCEMENT BARS (EPOXY COATED)	LBS.	113,400	—	113,400
CONCRETE PILES	LIN. FT.	—	6109	6109
TEST PILES, CONCRETE	EACH	—	5	5
STUD SHEAR CONNECTORS	EACH	6,036	—	6,036
NEOPRENE EXPANSION JOINT, 2"	LIN. FT.	107	—	107
NEOPRENE EXPANSION JOINT, 2½"	LIN. FT.	116	—	116
NAME PLATE	EACH	—	2	2
FLOOR DRAINS	EACH	6	—	6
PROTECTIVE COAT	SQ. YD.	3,441	—	3,441
ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	10	—	10
ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	10	—	10
COFFERDAM	EACH.	—	4	4
SEAL COAT CONCRETE	CU. YD.	—	448	448
COFFERDAM EXCAVATION	CU. YD.	—	2,408	2,408

For quantity of Dumped Stone Riprap, Special, see Roadway Plans

STATION 181+30.0
BUILT 19__ BY
STATE OF ILLINOIS
F.A. ROUTE 408 SEC. 1-4B-1
F.A. PROJ. NO. FFD-408-1(55)
LOADING HS20
STR. NO.

NAME PLATE

See Std. 2113
(Str. No. to be furnished by Eng.)



LOCATION SKETCH

GENERAL PLAN & ELEVATION
F.A. RTE. 408 Over MILL CREEK
F.A. RTE. 408 SEC. 1-4B-1
ADAMS COUNTY
STA. 181+30.00 F.A. 408

PLANS PREPARED BY AMERICAN ENGINEERING CO.

As Revised 2-20-81 / W

FILE NAME =	USER NAME = kadirmo	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXSITING SN: 001-0062/63 FOR INFORMATION ONLY
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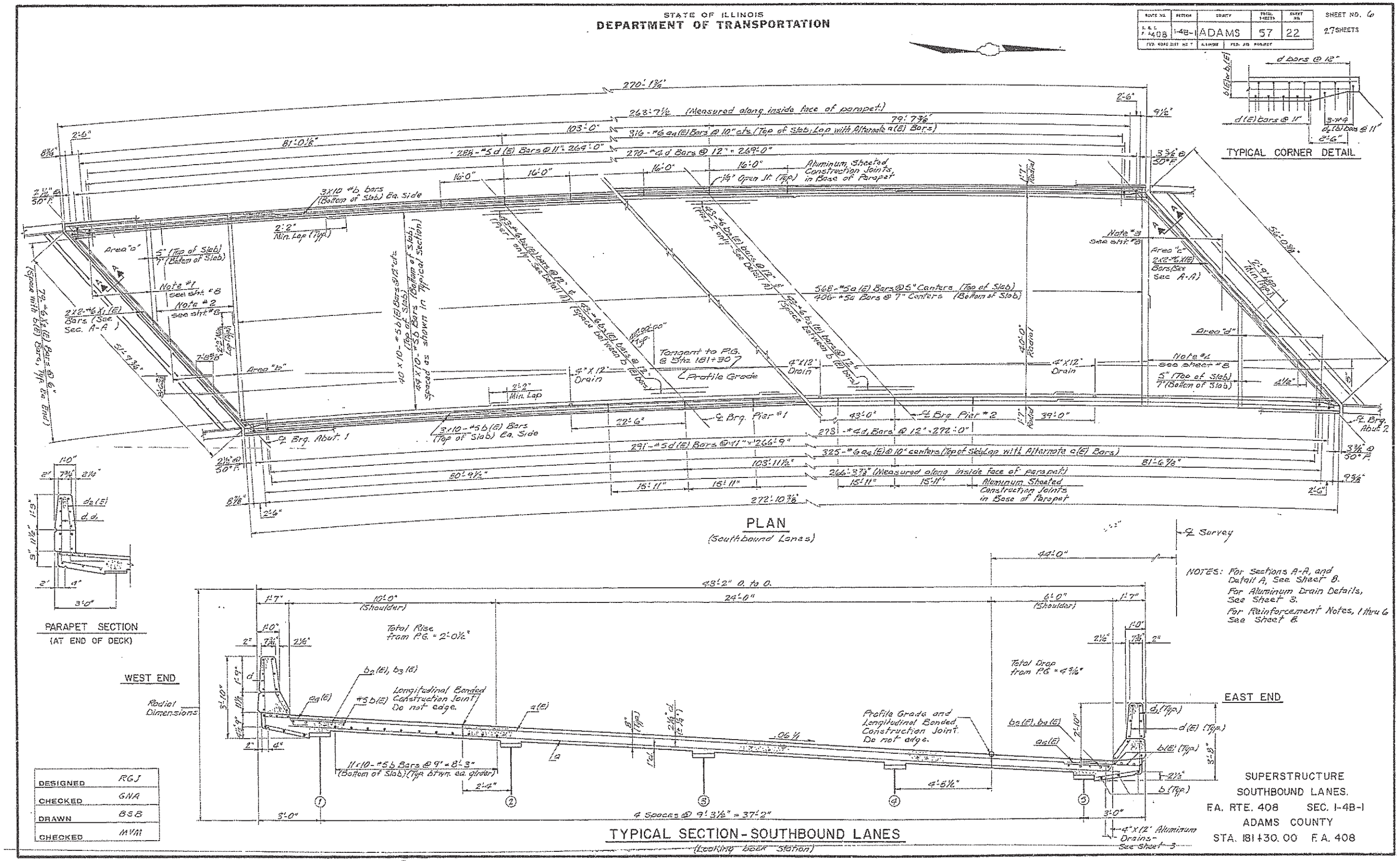
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	06 BDGE PAINTING 2015	ADAMS	30	14
		CONTRACT NO. 72H36		
		ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1-4B-1	ADAMS	57	22

SHEET NO. 6
27 SHEETS



NOTES: For Sections A-A, and Detail A, See Sheet 8.
For Aluminum Drain Details, See Sheet 3.
For Reinforcement Notes, 1 thru 6 See Sheet 8.

DESIGNED	RGJ
CHECKED	GNA
DRAWN	BSB
CHECKED	MVH

SUPERSTRUCTURE
SOUTHBOUND LANES.
F.A. RTE. 408 SEC. 1-4B-1
ADAMS COUNTY
STA. 181+30.00 F.A. 408

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXSITING SN: 001-0062/63
FOR INFORMATION ONLY

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

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	06 BDGE PAINTING 2015	ADAMS	30	15
		CONTRACT NO. 72H36		
	ILLINOIS FED. AID PROJECT			

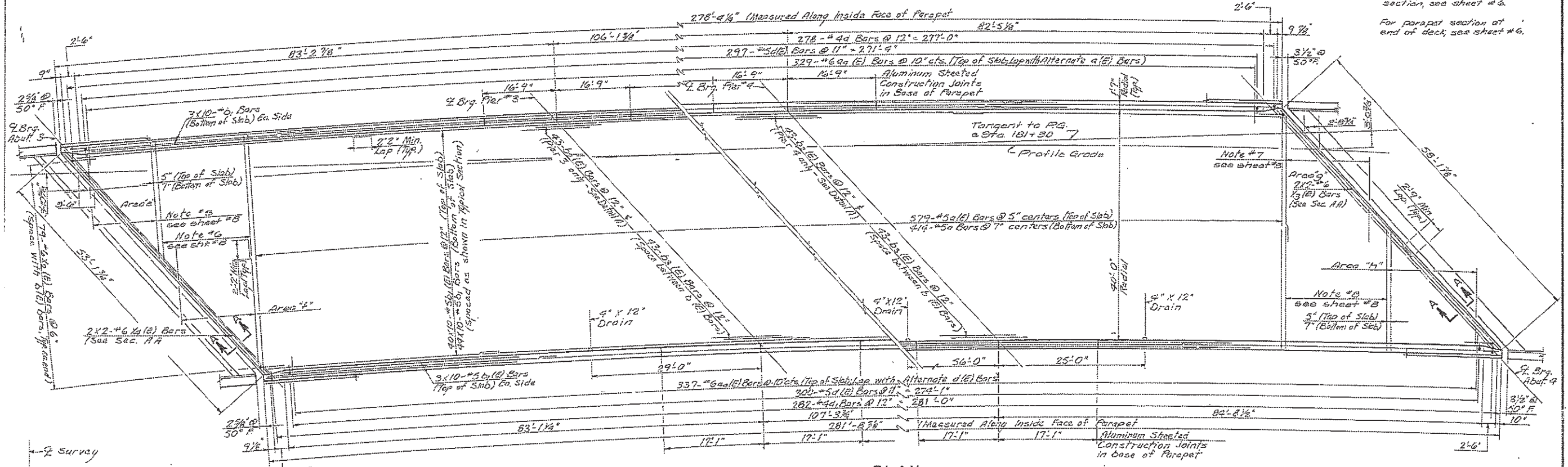
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 408	I-4B-1	ADAMS	57	23
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

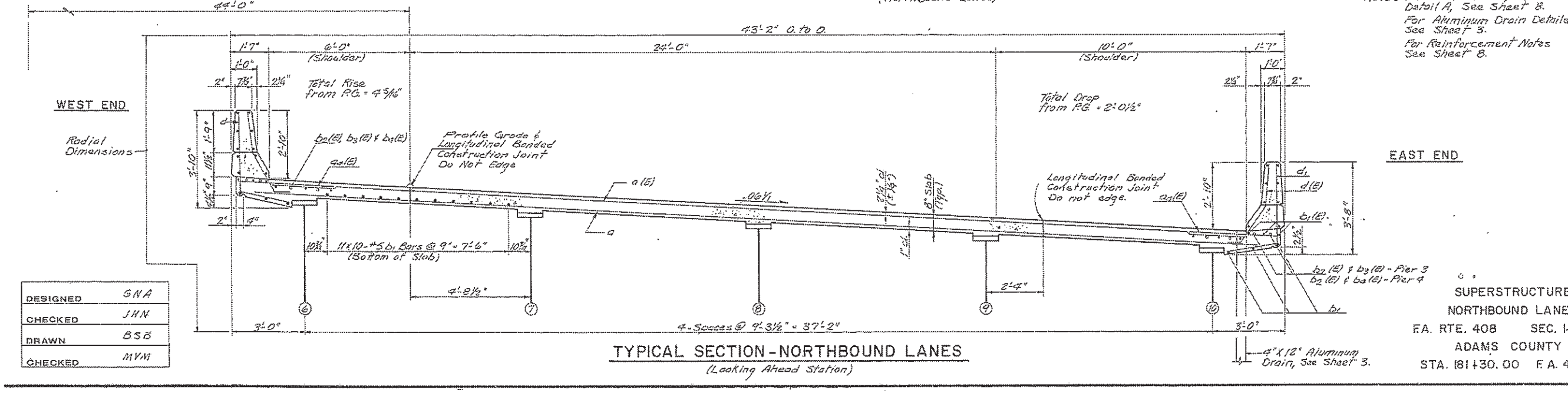
SHEET NO. 7
27 SHEETS

Note: For typical corner section, see sheet #6.

For parapet section at end of deck, see sheet #6.



PLAN
(Northbound Lanes)



TYPICAL SECTION - NORTHBOUND LANES
(Looking Ahead Station)

NOTES: For Sections A-A, and Detail A, See Sheet 8.
For Aluminum Drain Details See Sheet 3.
For Reinforcement Notes See Sheet 8.

DESIGNED	SNA
CHECKED	JHN
DRAWN	BSB
CHECKED	MVM

SUPERSTRUCTURE
NORTHBOUND LANES
F.A. RTE. 408 SEC. I-4B-1
ADAMS COUNTY
STA. 181+30.00 F.A. 408

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXSITING SN: 001-0062/63
FOR INFORMATION ONLY

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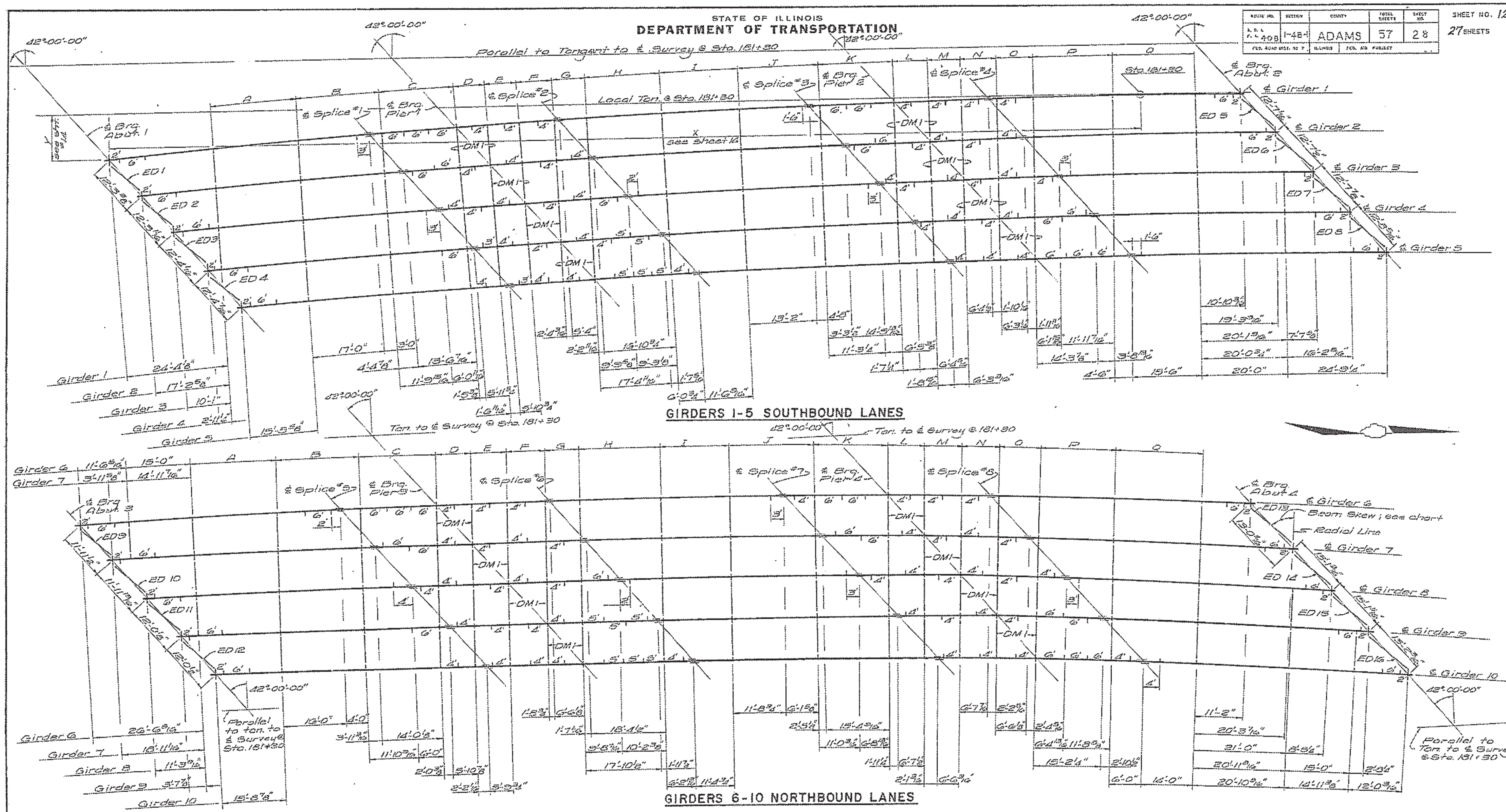
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	D6 BDGE PAINTING 2015	ADAMS	30	16
		CONTRACT NO. 72H36		
	ILLINOIS FED. AID PROJECT			



GIRDER	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	ABUTS. 1,3	PIERS 1,3	PIERS 2,4	ABUTS. 2,4
	DIAPHRAGM SPACINGS																	BEAM SKEW AT BEARING			
1	20'-0"	20'-0"	18'-0"	7'-5 7/8"	7'-6 3/8"	7'-7 3/8"	7'-8 3/16"	19'-2 7/16"	17'-10"	17'-10"	17'-10"	8'-0 1/2"	8'-1 3/8"	8'-2 3/16"	8'-3 1/16"	18'-2 3/4"	20'-3 1/16"	37°08'34"	38°44'49"	40°45'12"	42°20'56"
2	19'-11 1/4"	19'-11 1/4"	17'-11 5/16"	7'-5 9/16"	7'-6 5/16"	7'-7 1/16"	7'-7 7/8"	19'-1 7/16"	17'-9 5/16"	17'-9 5/16"	17'-9 5/16"	8'-0 3/16"	8'-1 1/16"	8'-1 7/8"	8'-2 3/4"	18'-2 1/16"	20'-2 5/16"	37°16'50"	38°53'34"	40°54'32"	42°30'54"
3	19'-10 1/2"	19'-10 1/2"	17'-10 5/8"	7'-5 5/16"	7'-6 1/16"	7'-6 13/16"	7'-7 9/16"	19'-0 3/4"	17'-8 5/8"	17'-8 5/8"	17'-8 5/8"	7'-11 7/8"	8'-0 3/4"	8'-1 5/16"	8'-2 7/16"	18'-1 3/8"	20'-1 9/16"	37°25'10"	39°02'23"	41°04'05"	42°40'56"
4	19'-9 3/4"	19'-9 3/4"	17'-9 15/16"	7'-5"	7'-5 3/4"	7'-6 1/2"	7'-7 5/16"	19'-0"	17'-7 15/16"	17'-7 15/16"	17'-7 15/16"	7'-11 9/16"	8'-0 7/16"	8'-1 1/4"	8'-2 1/8"	18'-0 11/16"	20'-0 3/4"	37°33'35"	39°11'17"	41°13'39"	42°51'04"
5	19'-8 15/16"	19'-8 15/16"	17'-9 1/4"	7'-4 11/16"	7'-5 7/16"	7'-6 1/4"	7'-7"	18'-11 1/4"	17'-7 5/16"	17'-7 5/16"	17'-7 5/16"	7'-11 5/16"	8'-0 1/8"	8'-0 15/16"	8'-1 13/16"	18'-0"	20'-0"	37°42'01"	39°20'16"	41°23'16"	43°01'17"
6	20'-0"	20'-0"	18'-0"	8'-0 3/16"	8'-1 1/16"	8'-2"	8'-2 7/8"	20'-0 3/8"	17'-10 3/8"	17'-10 3/8"	17'-10 3/8"	8'-7 13/16"	8'-8 3/4"	8'-9 3/4"	8'-10 13/16"	18'-2 7/8"	20'-3 3/4"	38°56'46"	40°38'38"	42°46'47"	44°31'55"
7	19'-11 3/16"	19'-11 3/16"	17'-11 5/16"	7'-11 7/8"	8'-0 3/4"	8'-1 5/8"	8'-2 9/16"	19'-11 5/16"	17'-9 11/16"	17'-9 11/16"	17'-9 11/16"	8'-7 7/16"	8'-8 7/16"	8'-9 7/16"	8'-10 7/16"	18'-2 3/16"	20'-2 3/8"	39°05'58"	40°49'23"	42°55'16"	44°43'06"
8	19'-10 7/16"	19'-10 7/16"	17'-10 9/16"	7'-11 9/16"	8'-0 7/16"	8'-1 5/16"	8'-2 1/4"	19'-10 13/16"	17'-9"	17'-9"	17'-9"	8'-7 1/8"	8'-8 1/16"	8'-9 1/16"	8'-10 1/8"	18'-1 7/16"	20'-1 5/8"	39°15'14"	40°59'14"	43°09'55"	44°54'23"
9	19'-9 5/8"	19'-9 5/8"	17'-9 7/8"	7'-11 1/4"	8'-0 1/8"	8'-1"	8'-1 7/8"	19'-10"	17'-8 1/4"	17'-8 1/4"	17'-8 1/4"	8'-6 3/4"	8'-7 3/4"	8'-8 3/4"	8'-9 3/4"	18'-0 3/4"	20'-0 15/16"	39°24'34"	41°09'10"	43°20'35"	45°05'47"
10	—	19'-8 7/16"	17'-9 3/16"	7'-10 15/16"	7'-11 13/16"	8'-0 11/16"	8'-1 9/16"	19'-9 3/16"	17'-7 9/16"	17'-7 9/16"	17'-7 9/16"	8'-6 7/16"	8'-7 3/8"	8'-8 3/8"	8'-9 3/8"	18'-0"	20'-0"	39°34'00"	41°19'12"	43°31'29"	45°17'18"

Note: All dimensions measured along ℄ Girders.

All Diaphragms not labeled are DM 2.

DESIGNED	RBY
CHECKED	MVM
DRAWN	RBY
CHECKED	MVM

FRAMING PLAN
F.A. RTE. 408 SEC. 1-4B-1
ADAMS COUNTY
STA. 181+30.00 F.A. 408

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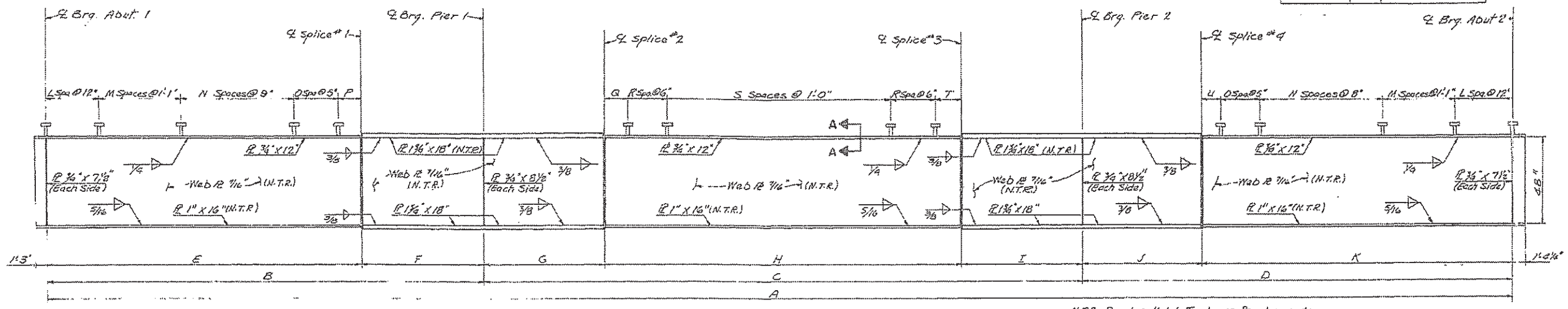
	PLOT DATE = Aug-19-2014 12:38:57PM	CHECKED -	REVISED -		
		DATE -	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	D6 BDGE PAINTING 2015	ADAMS	30	17
		CONTRACT NO. 72H36		
	ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A. 408	1-9B-1	ADAMS	57	24A
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 13
27 SHEETS



N.T.R. Denotes Notch Toughness Requirements
For Location and Spacing of diaphragm connection plates and intermediate stiffeners, see Framing Plan, Sheet #12

GIRDER ELEVATION

GIRDER DIMENSIONS

GIRDER	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	267'-3 7/16"	82'-4 1/8"	105'-0 1/8"	81'-11 3/16"	61'-4 1/8"	21'-0"	25'-0"	55'-6 1/8"	22'-6"	22'-6"	59'-5 3/16"	9	24	30	6	1'-4 1/8"	1'-3"	6	47	1'-3 1/8"	1'-11 3/16"
2	267'-10 1/2"	82'-6"	105'-2 3/8"	82'-1 5/8"	61'-6"			55'-8 7/8"			59'-7 5/8"					1'-6"	1'-5"			1'-5 7/8"	2'-1 9/16"
3	268'-5 1/16"	82'-7 5/8"	105'-5 5/8"	82'-4 1/8"	61'-7 5/8"			55'-11 5/8"			59'-10 1/8"					1'-7 5/16"	1'-5"			1'-8 3/8"	2'-4 1/8"
4	269'-1 5/16"	82'-9 5/8"	105'-8 5/8"	82'-6 1/16"	61'-9 5/8"			56'-2 1/16"			60'-0 1/16"					1'-9 1/16"	1'-6"			1'-8 1/16"	2'-6 11/16"
5	269'-8 1/2"	82'-11 5/16"	105'-11 1/16"	82'-9 1/16"	61'-11 7/16"	21'-0"	25'-0"	56'-5 5/16"	22'-6"	22'-6"	60'-3 1/4"	9	24	30	6	1'-11 7/16"	1'-9"	6	47	1'-8 1/16"	2'-9 7/16"

CUTOFF ANGLE, θ

GIRDER	ABUT. 1	ABUT. 2
1	37.183	42.349
2	37.281	42.515
3	37.419	42.682
4	37.559	42.851
5	37.700	43.021

TOP OF WEB ELEVATIONS (For Fabrication Only)*

GIRDER NO.	1	2	3	4	5
℄ Brg. Abut. 1	515.44	514.90	514.37	513.83	513.30
Splice 1	515.58	515.00	514.46	513.93	513.39
℄ Brg. Pier 1	515.59	515.05	514.52	513.98	513.44
Splice 2	515.62	515.12	514.58	514.04	513.50
Splice 3	515.79	515.25	514.71	514.17	513.63
℄ Brg. Pier 2	515.83	515.23	514.75	514.21	513.67
Splice 4	515.88	515.34	514.80	514.26	513.71
℄ Brg. Abut. 2	516.07	515.53	514.98	514.44	513.89

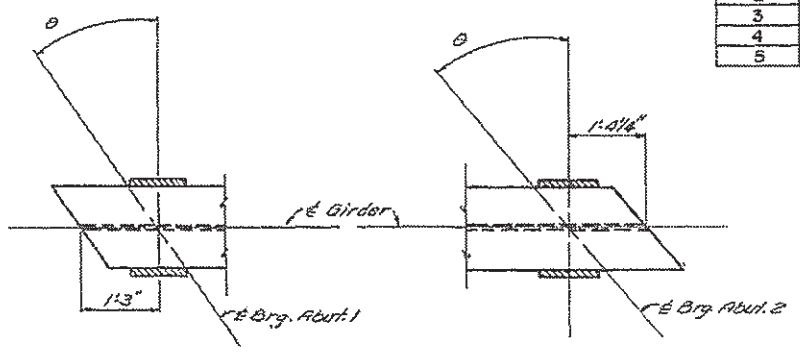
* Elevations at Splices have been adjusted for Dead Load Deflections.

INTERIOR GIRDER MOMENT TABLE

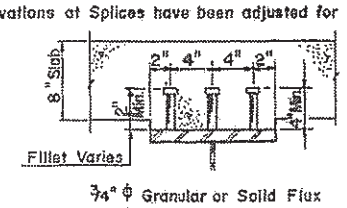
		0.4 SPAN 1	PIER 1	0.5 SPAN 2	PIER 2	.6 SPAN 3
Is	(in^4)	18,337.21	43,030.31	18,337.21	43,030.31	18,337.21
S_{SB}	(in^3)	863.09	1671.08	863.09	1671.08	863.09
DL	(k/ft)	1.15	1.28	1.15	1.28	1.15
MDL	(ft-k)	440.77	-1238.98	344.11	-1227.22	435.09
f_{SB} DL	(ksi)	6.41	8.90	4.78	8.81	6.37
Ic (n=27)	(in^4)	36,344.32	43,030.31	36,344.32	43,030.31	36,344.32
S_{CB}	(in^3)	1093.38	1671.08	1093.38	1671.08	1093.38
SDL	(k/ft)	0.36	0.36	0.36	0.36	0.36
MSDL	(ft-k)	165.16	-333.24	153.00	-331.57	161.52
f_{SB} SDL	(ksi)	1.80	2.39	1.69	2.38	1.78
Ic (n=9)	(in^4)	50,216.16	43,030.31	50,216.16	43,030.31	50,216.16
S_{CB}	(in^3)	1194.75	1671.08	1194.75	1671.08	1194.75
MLL	(ft-k)	643.84	754.25	665.67	751.02	631.03
MIMP	(ft-k)	203.15	172.95	189.42	172.31	202.09
M_L (TOTAL	(ft-k)	1047.02	-927.18	1055.09	-923.33	1,034.12
f_{SB} LL	(ksi)	10.47	6.66	10.55	6.63	10.40
f_S'	(ksi)	1.68	1.05	1.37	1.04	1.77
f_{SB} TOTAL	(ksi)	20.16	19.00	18.39	18.86	20.02
VR	(k)	72.72	—	78.08	—	71.38

REACTION TABLE

		ABUT. 1	PIER 1	PIER 2	ABUT. 2
R DL	(k)	43.98	165.76	164.97	43.81
R LL	(k)	52.53	80.85	81.19	52.41
R IMP	(k)	12.65	18.55	18.62	12.64
R TOTAL	(k)	109.16	265.20	264.78	108.37

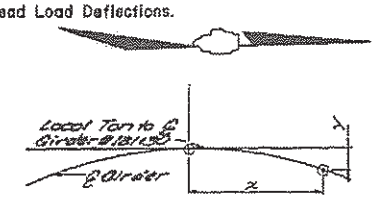


FLANGE CUTTING DETAIL



3/4" ϕ Granular or Solid Flux Filled Headed Studs Automatically End Welded to Flange. (No. Required = 600, Per Girder)

SECTION A-A



OFFSET SKETCH

LOCAL GIRDER COORDINATES X AND Y ARE MEASURED ALONG AND PERPENDICULAR TO A LINE TANGENT TO THE CENTERLINE OF THE GIRDER AT STATION 181+30.0.

AS REVISED

DESIGNED	JHN
CHECKED	MVM
DRAWN	BSB
CHECKED	MVM

GIRDER COORDINATES - TANGENT TO GIRDER AT STA. 181 + 30.00

GIRDER	℄ BRG. ABUT. 1		SPLICE 1		℄ BRG. PIER 1		SPLICE 2		SPLICE 3		℄ BRG. PIER 2		SPLICE 4		℄ BRG. ABUT. 2		RADIUS
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	
1	-249.050	10.563	-187.873	6.007	-166.918	4.740	-141.952	3.427	-84.685	1.272	-63.990	0.696	-41.694	0.293	+17.935	0.055	2941.372
2	-241.243	9.991	-179.903	5.524	-158.938	4.311	-133.969	3.062	-78.247	1.045	-55.775	0.330	-33.876	0.189	+26.359	0.118	2932.081
3	-233.432	9.356	-171.909	5.060	-150.941	3.900	-125.969	2.716	-70.032	0.859	-47.537	0.387	-25.038	0.107	+34.603	0.207	2922.789
4	-225.587	8.746	-163.899	4.614	-142.928	3.508	-117.953	2.389	-61.776	0.655	-39.280	0.265	-16.781	0.098	+43.271	0.321	2913.493
5	-217.736	8.179	-155.872	4.186	-134.898	3.135	-109.920	2.081	-53.501	0.493	-31.003	0.165	-8.504	0.012	+51.766	0.461	2904.206

STRUCTURAL STEEL, GIRDERS 1-5
F. A. RTE. 408 SEC. 1-4B-1
ADAMS COUNTY
STA. 181+30.00 F.A. 408

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXSITING SN: 001-0062/63
FOR INFORMATION ONLY

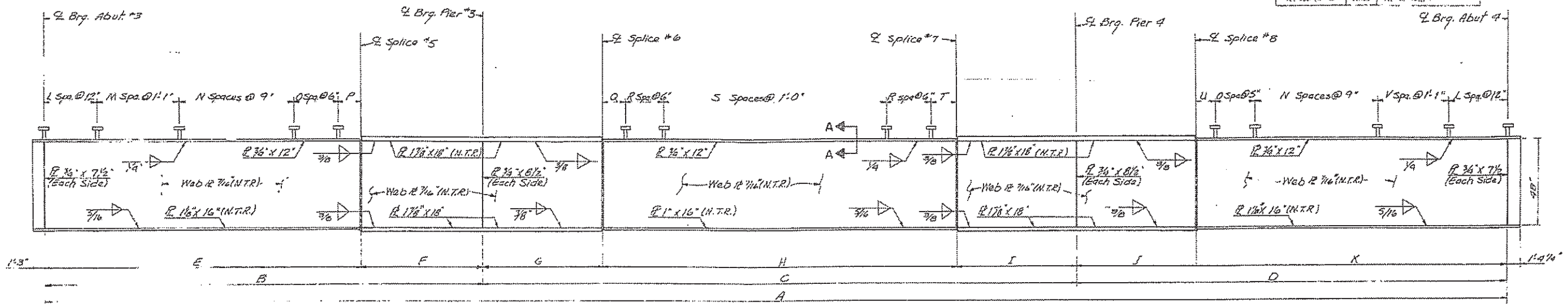
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	D6 BDGE PAINTING 2015	ADAMS	30	18
		CONTRACT NO. 72H36		
	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 408	48-1	ADAMS	57	30A
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. 14 OF 27 SHEETS



N.T.R. Denotes Notch Toughness Requirements
For location and spacing of diaphragm connection plates and intermediate stiffeners, see Framing Plan, Sheet #12.

GIRDER ELEVATION

GIRDER DIMENSIONS

GIRDER	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
6	275'-5 1/8"	84'-6 1/4"	106'-1 5/8"	84'-9 3/4"	62'-6 1/2"	22'-0"	24'-0"	56'-1 7/8"	24'-0"	24'-0"	60'-9 3/4"	8	23	33	6	1'-10 5/16"	1'-6"	7	46	1'-7 3/8"	1'-8 1/2"	22
7	276'-1 7/16"	84'-8 3/8"	106'-5"	85'-0 3/8"	62'-8 5/8"			56'-5"			61'-0 3/16"					2'-0 5/16"			46	1'-11"	1'-11 5/16"	
8	276'-10 7/8"	84'-11"	106'-8 7/16"	85'-3 1/16"	62'-11"			56'-8 7/16"			61'-3 7/16"					2'-3"			46	2'-2 5/8"	2'-7 1/16"	
9	277'-8"	85'-1 7/16"	106'-11 7/16"	85'-5 3/8"	63'-1 7/16"			56'-11 7/16"			61'-6 7/8"					2'-5 7/16"			47	1'-5 5/16"	2'-3 7/8"	
10	278'-5 1/4"	85'-3 7/8"	107'-3 1/2"	85'-9 7/16"	63'-3 7/8"	22'-0"	24'-0"	57'-3 1/2"	24'-0"	24'-0"	61'-9 7/8"	8	23	33	6	2'-7 7/8"	1'-6"	7	47	1'-9 1/2"	2'-8 5/16"	22

CUTOFF ANGLE, θ		
GIRDER	ABUT. 3	ABUT. 4
6	38.947	44.599
7	39.100	44.718
8	39.254	44.904
9	39.410	45.096
10	39.567	45.288

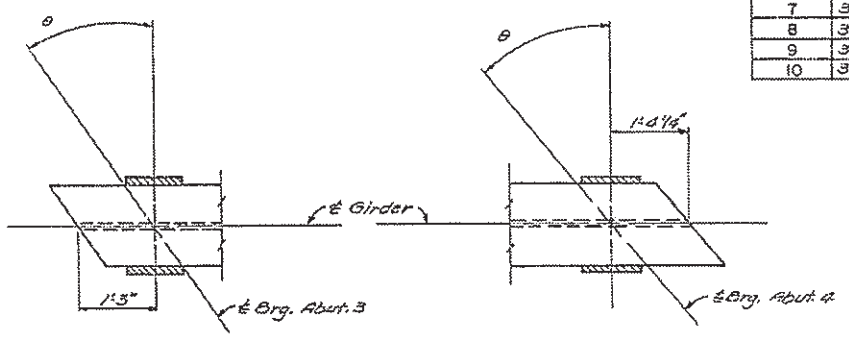
TOP OF WEB ELEVATIONS (For Fabrication Only)*

GIRDER NO.	6	7	8	9	10
℄ Brg. Abut. 3	514.02	513.49	512.95	512.41	511.87
Splice 5	514.09	513.55	512.01	512.47	511.93
℄ Brg. Pier 3	514.13	513.59	513.05	512.51	511.97
Splice 6	514.19	513.63	513.11	512.57	512.02
Splice 7	514.30	513.75	513.21	512.67	512.12
℄ Brg. Pier 4	514.38	513.79	513.24	512.70	512.15
Splice 8	514.37	513.83	513.28	512.73	512.19
℄ Brg. Abut. 4	514.54	513.99	513.44	512.89	512.34

* Elevations at Splices have been adjusted for Dead Load Deflections.

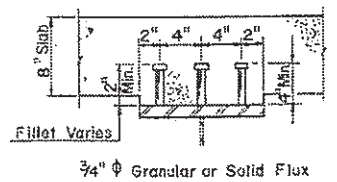
INTERIOR GIRDER MOMENT TABLE						
		0.4 SPAN 1	PIER 3	0.5 SPAN 2	PIER 4	.6 SPAN 3
Is	(in^4)	19207.58	46028.60	18,337.21	46028.60	19207.58
Ss_B	(in^3)	937.67	1778.88	863.04	1778.88	937.67
DL	(k/ft)	1.16	1.30	1.15	1.30	1.16
MDL	(ft-k)	486.78	-1523.53	353.22	-1331.60	495.10
fs_B DL	(ksi)	6.23	8.53	4.91	8.98	6.34
Ic (n=27)	(in^4)	38485.03	46,028.6	36,364.32	46,028.6	38485.03
Sc_B	(in^3)	1188.66	1778.88	1094.38	1778.88	1188.66
SDL	(k/ft)	0.36	0.36	0.36	0.36	0.36
MSDL	(ft-k)	172.63	-355.31	161.27	-357.57	174.72
fs_B SDL	(ksi)	1.73	2.40	1.75	2.41	1.75
Ic (n=9)	(in^4)	53473.75	46,028.6	50,216.16	46,028.6	53473.75
Sc_B	(in^3)	1234.27	1778.88	1134.75	1778.88	1234.27
MLL	(ft-k)	874.19	-800.32	883.44	-801.23	877.85
MIMP	(ft-k)	208.22	-181.22	190.64	-181.28	208.72
M_{LL} TOTAL	(ft-k)	1082.41	-981.54	1074.08	-982.51	1086.57
fs_B LL	(ksi)	9.99	6.62	10.74	6.63	10.03
fs'	(ksi)	1.43	1.08	1.46	1.08	1.43
fs_B TOTAL	(ksi)	19.38	19.05	18.86	15.10	19.34
VR	(k)	73.27	—	79.04	—	71.38

REACTION TABLE					
		ABUT. 3	PIER 3	PIER 4	ABUT. 4
R DL	(k)	43.26	171.41	171.93	45.60
R LL	(k)	32.76	82.67	83.14	32.79
R IMP	(k)	12.58	18.92	18.81	12.55
R TOTAL	(k)	110.60	272.80	273.88	110.94



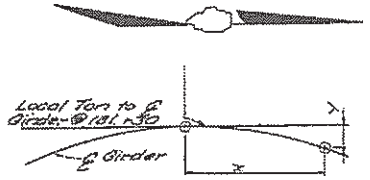
FLANGE CUTTING DETAIL

AS REVISED



3/4" Φ Granular or Solid Flux Filled Headed Studs Automatically End Welded to Flange. (No. Required = 606 Per Girder G-6 thru G-8, 609 Per Girder G-9 & G-10

SECTION A-B



OFFSET SKETCH

DESIGNED	JHN
CHECKED	MVM
DRAWN	BSB
CHECKED	MVM

GIRDER COORDINATES - TANGENT TO GIRDER AT STA. 181+30.00

GIRDER	℄ BRG. ABUT. 1		SPLICE 5		℄ BRG. PIER 3		SPLICE 6		SPLICE 7		℄ BRG. PIER 4		SPLICE 8		℄ BRG. ABUT. 4		
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	RADIUS
6	-150.302	4.011	-80.035	1.372	-66.049	0.772	-40.098	0.284	+16.087	0.046	+40.086	0.284	+64.082	0.727	+124.816	2.758	2885.372
7	-142.499	3.608	-79.831	1.132	-57.838	0.594	-31.841	0.180	+24.575	0.107	+48.573	0.919	+72.568	0.935	+133.552	3.169	2814.081
8	-134.479	3.223	-71.400	0.914	-49.611	0.436	-23.614	0.039	+33.088	0.195	+57.085	0.581	+81.078	1.171	+142.316	3.610	2806.28
9	-126.441	2.859	-63.341	0.714	-41.365	0.306	-15.366	0.042	+41.626	0.310	+65.622	0.770	+89.611	1.436	+151.109	4.084	2797.497
10	-118.385	2.519	-55.094	0.544	-33.097	0.196	-7.099	0.009	+50.188	0.452	+74.184	0.987	+98.171	1.729	+159.931	4.591	2788.206

STRUCTURAL STEEL, GIRDERS 6-10
F.A. RTE. 408 SEC. 1-48-1
ADAMS COUNTY
STA. 181+30.00 F.A. 408

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXSITING SN: 001-0062/63
FOR INFORMATION ONLY

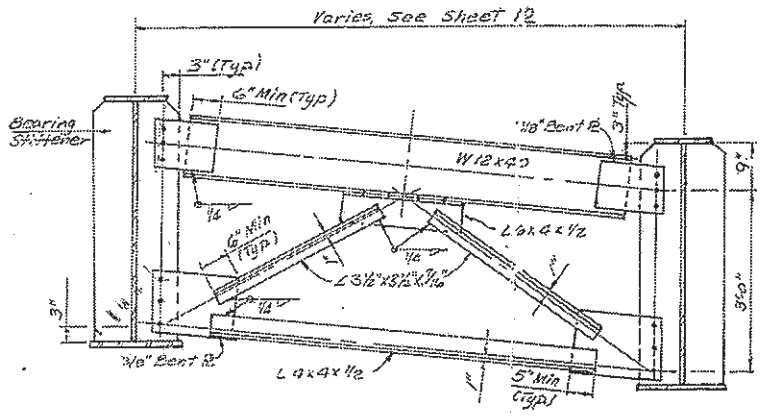
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	06 BDGE PAINTING 2015	ADAMS	30	19
		CONTRACT NO. 72H36		
		ILLINOIS FED. AID PROJECT		

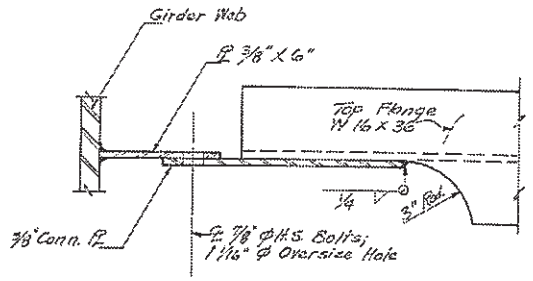
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 408	1-48-1	ADAMS	57	31
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

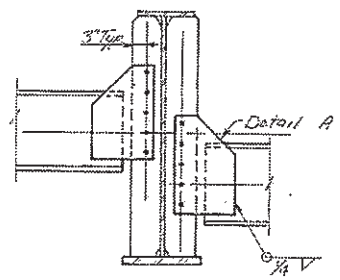
SHEET NO. 15
27 SHEETS



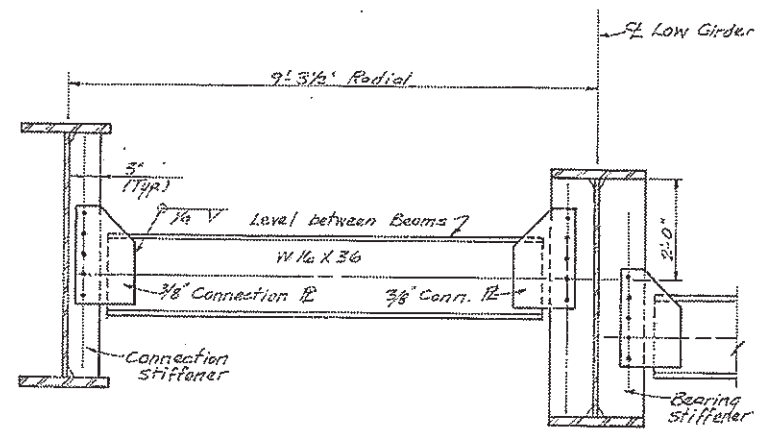
END DIAPHRAGM
(ED1 thru ED16)



DETAIL A

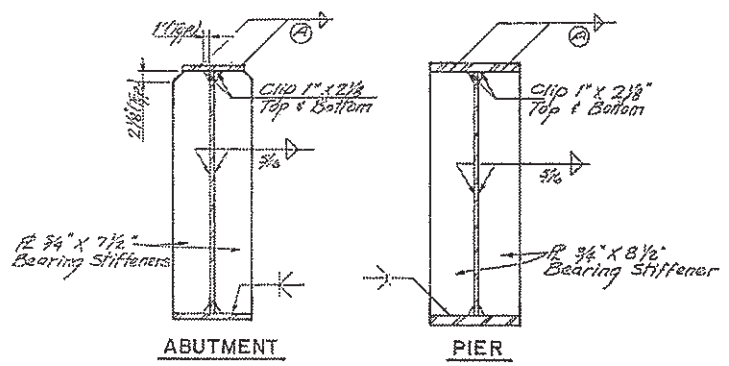


AT INTERIOR BEAM

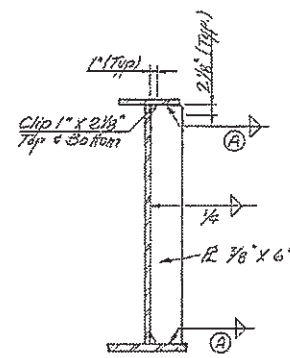


AT FASCIA BEAM

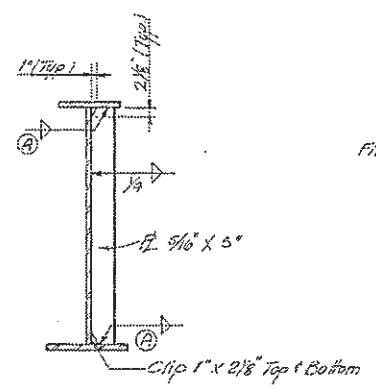
AT PIER



BEARING STIFFENERS



DIAPHRAGM CONNECTION PLATE



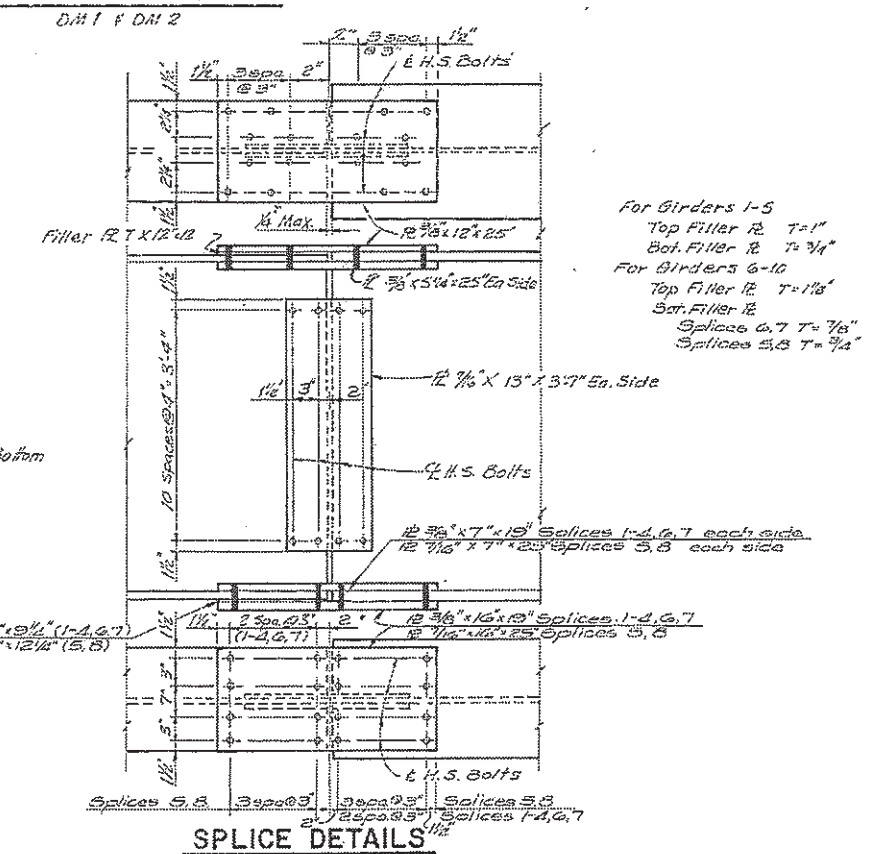
INTERMEDIATE STIFFENER

Use 7/8" ϕ H.S. Bolts for all diaphragm connections.
Provide 1 1/16" oversize holes in connection plates and stiffeners.

Use two hardened washers per bolt at all oversize holes. All contact surfaces of the diaphragm joints shall be free of paint or lacquer.

Ⓐ FILLET WELDS	
Flange Thick.	Weld Size
3/4"	1/4"
1"	5/16"
1 1/8"	5/16"
1 3/4"	3/8"
1 7/8"	3/8"

INTERIOR DIAPHRAGM
DM 1 & DM 2



SPLICE DETAILS

For Girders 1-5
Top Filler PL T= 1"
Bot. Filler PL T= 3/4"
For Girders 6-10
Top Filler PL T= 1 1/8"
Bot. Filler PL
Splices 6, 7 T= 7/8"
Splices 5, 8 T= 9/4"

1. All bolts are 7/8" ϕ High Strength
2. All Splice plates shall meet Notch Toughness Requirements (M.7.A.)

DESIGNED	JHN
CHECKED	MVM
DRAWN	BSB
CHECKED	MVM

STEEL DETAILS
F.A. RTE. 408 SEC. 1-48-1
ADAMS COUNTY
STA. 181+30.00 F.A. 408

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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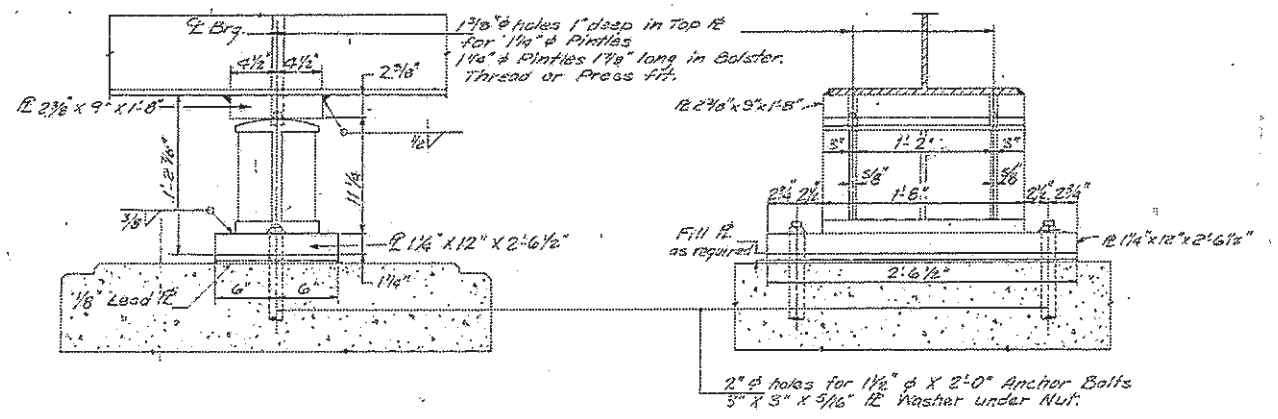
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	06 BDGE PAINTING 2015	ADAMS	30	20
		CONTRACT NO. 72H36		
		ILLINOIS FED. AID PROJECT		

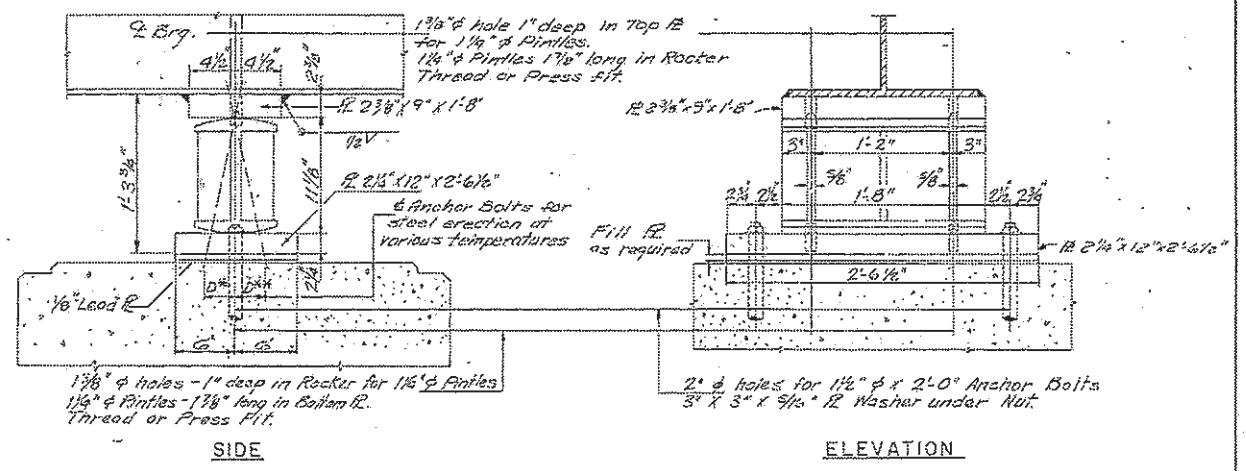
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 408	I-48-1	ADAMS	57	32
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

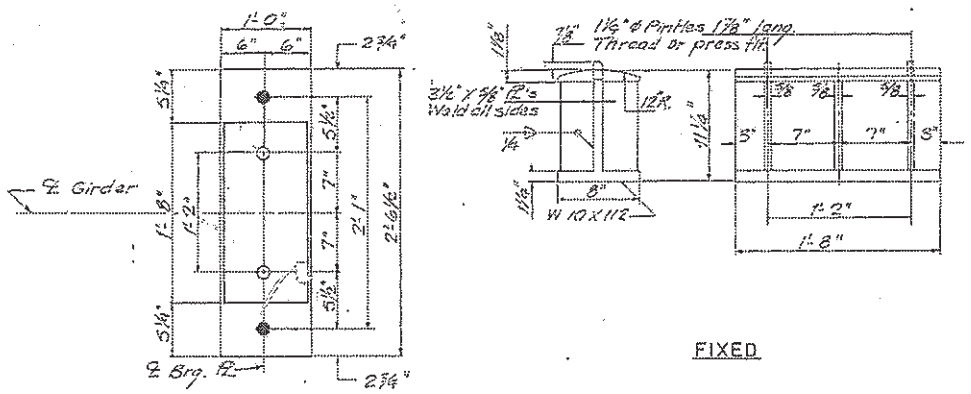
SHEET NO 16
27 SHEETS



SIDE ELEVATION

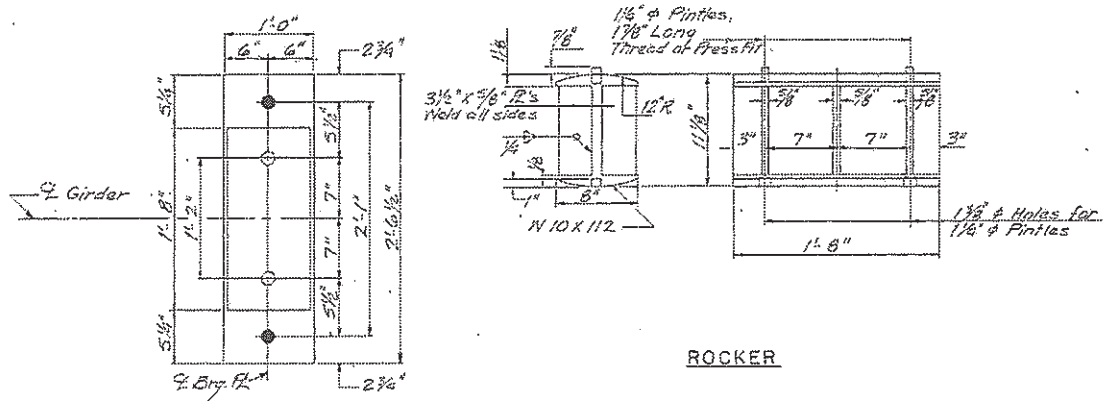


SIDE ELEVATION



FIXED

PLAN

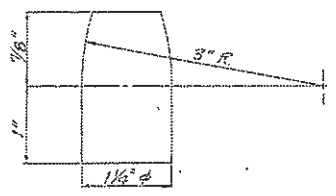


ROCKER

PLAN

FIXED BEARING - PIER 1, 3

EXPAN. BEARING - PIER 2, 4



PINTLE

NOTES ON SETTING OF ANCHOR BOLTS AT EXP. BRGS.

a) D* (Side of bearing away from fixed bearing)
D* = 1/8" per each 100° of expansion for every 15° fall below the normal temp. of 50° F.
D** (Side of bearing toward fixed bearing)
D** = 1/8" per each 100° of expansion for every 15° rise above the normal temp. of 50° F.

b) After beams have been erected and dimensions D* or D** have been determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.

DESIGNED	MVM
CHECKED	JHN
DRAWN	BSB
CHECKED	MVM

STEEL
BEARING DETAILS
F.A. RTE. 408 SEC. I-4B-1
ADAMS COUNTY
STA. 181+30.00 F.A. 408

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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FOR INFORMATION ONLY
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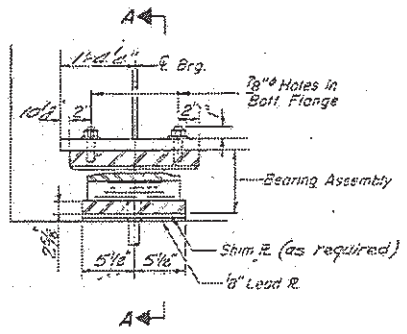
172	06 BDGE PAINTING 2015	ADAMS	30	21
		CONTRACT NO. 72H36		
		ILLINOIS FED. AID PROJECT		

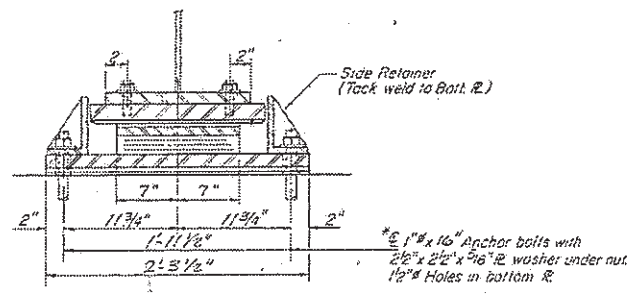
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
408	I-48-1	ADAMS	57	33

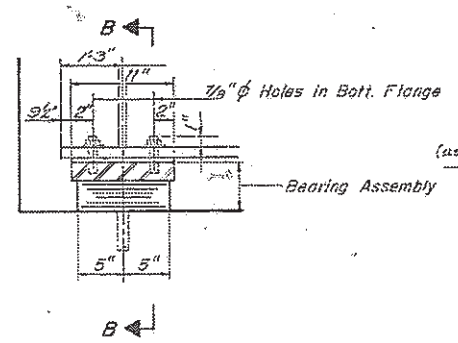
SHEET NO. 17
27 SHEETS



SECTION AT ABUT.



SECTION A-A



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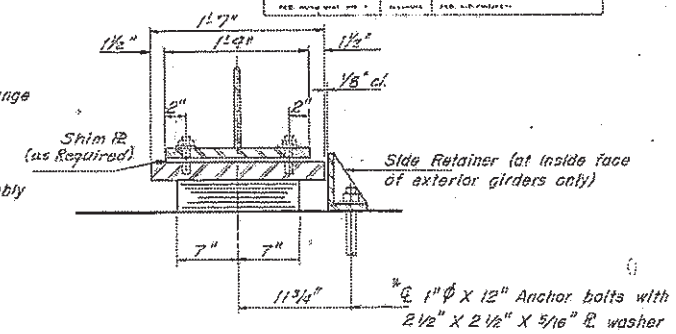
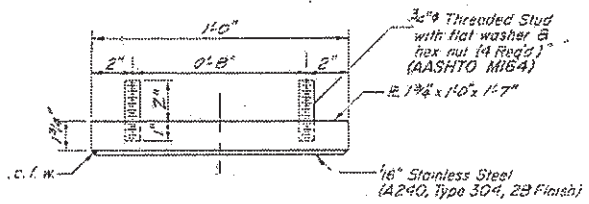
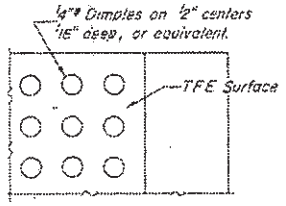


SECTION B-B

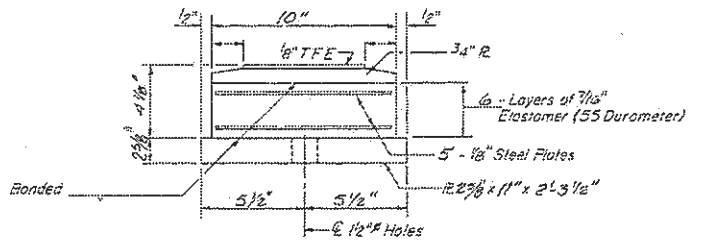
TYPE II TFE ELASTOMERIC EXP BRG.
at Abutments 2 and 4



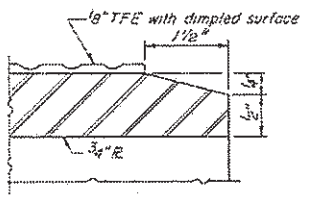
TOP BEARING ASSEMBLY



PLAN-TFE SURFACE



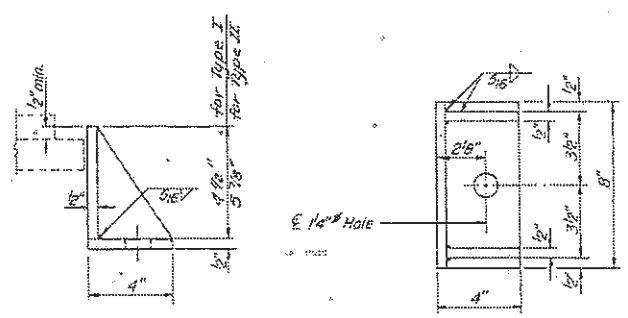
BOTTOM BEARING ASSEMBLY



SECTION THRU TFE

Note: The 1/8" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



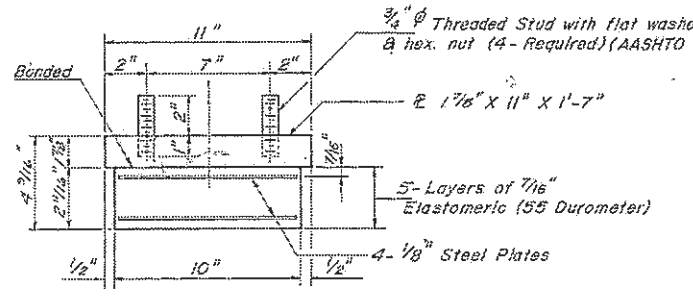
SIDE RETAINER

DESIGNED	MVM
CHECKED	JHN
DRAWN	BSB
CHECKED	MVM

I-2-E2 4-1-79

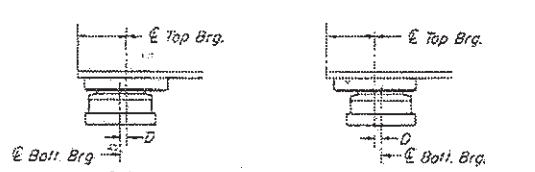
*Note: After girders have been erected holes at expansion bearings shall be drilled and anchor bolts grouted in place. Anchor bolts at fixed bearings may be built into the masonry.

TYPE I ELASTOMERIC EXP. BRG.
at Abutments 1 and 3



BEARING ASSEMBLY

Note: Shim plates shall not be placed under Bearing Assembly.



BELOW 50°F (Move bott. brg. away from fixed brg.)

ABOVE 50°F (Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D = 1/8" per each 100° of expansion for every 15° temp. change from the normal temp. of 50°F

. . ELASTOMERIC
BEARING DETAILS
F.A. RTE. 408 SEC. I-48-1
ADAMS COUNTY
STA. 181+30.00 F.A. 408

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXSITING SN: 001-0062/63
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SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	06 BDGE PAINTING 2015	ADAMS	30	22
		CONTRACT NO. 72H36		
	ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

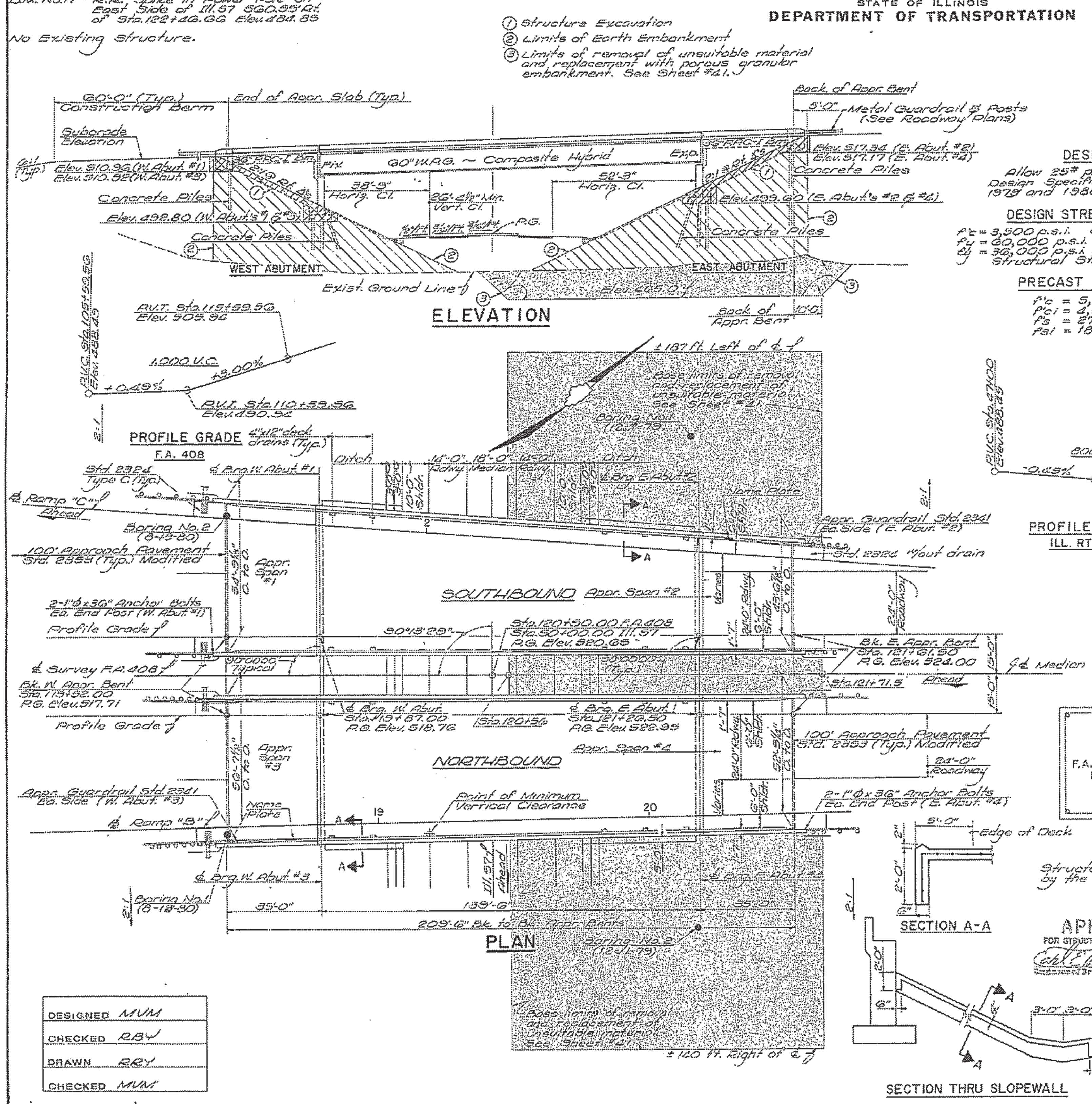
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
408	1-3HB	ADAMS	153	59

SHEET NO. 1
SHEETS 29

B.M. No.17 - R.R. Spike in Power Pole on East Side of Ill.57 560.55' Rt. of Sta.122+46.66 Elev.484.85

No Existing Structure.

① Structure Excavation
② Limits of Earth Embankment
③ Limits of removal of unsuitable material and replacement with porous granular embankment. See Sheet #41.



DESIGN LOADING HS20-44

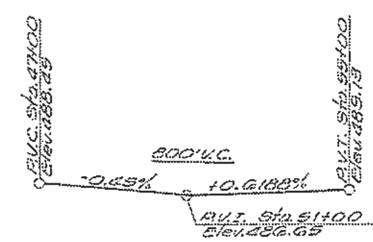
Allow 25# p.s.f. for future Wearing Surface
Design Specifications 1977 AASHTO; 1978, 1979 and 1980 Interim Specifications.

DESIGN STRESSES – LOAD FACTOR DESIGN

f'c = 3,500 p.s.i. Concrete
fy = 60,000 p.s.i. Reinforcement
fy = 36,000 p.s.i. M183 & 50,000 p.s.i. M223 Grade 50 Structural Steel (Hybrid Girder Design)

PRECAST PRESTRESSED STRESSES

f'c = 5,000 p.s.i.
f'ci = 4,000 p.s.i.
f's = 270,000 p.s.i. (½"Ø Strands)
fsi = 189,000 p.s.i.



PROFILE GRADE
ILL. RTE. 57

GENERAL NOTES

THE CONTRACTOR SHALL DRIVE THREE (3) CONCRETE TEST PILES IN PERMANENT LOCATIONS. ONE EACH AT APPR. BENT # 3, ABUT. # 1 AND ABUT. #4 AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF THE PILES.

THE MAIN LOAD CARRYING MEMBER COMPONENTS SUBJECT TO TENSILE STRESS SHALL CONFORM TO THE SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2. THESE COMPONENTS ARE THE TENSION FLANGES, WEBS AND ALL WEB AND TENSION FLANGE SPLICE PLATE MATERIAL OF THE STEEL GIRDERS.

THE EMBANKMENT CONFIGURATION SHOWN SHALL BE THE MINIMUM EMBANKMENT THAT MUST BE CONSTRUCTED PRIOR TO THE CONSTRUCTION OF THE ABUTMENTS.

THE BASIC LEAD SILICO CHROMATE PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF STRUCTURAL STEEL.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF THE GIRDERS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

ANCHOR BOLTS SHALL BE SET BEFORE BOLTING CROSS FRAMES OVER SUPPORTS.

FASTENERS SHALL BE HIGH STRENGTH BOLTS. BOLTS 3/4" Ø, OPEN HOLES 13/16" Ø, UNLESS OTHERWISE NOTED.

CALCULATED WEIGHT OF STRUCTURAL STEEL, M183= 250972 Pounds
M223 (GRADE 50)= 261152 Pounds

SEE PROPOSAL FOR BORING DATA.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31 OR M-53 GRADE 60.

THE SLOPE WALLS SHALL BE REINFORCED WITH WELDED WIRE FABRIC, 6"x6" - W4.0 x W4.0, WEIGHING 58 LBS. PER 100 SQ. FT.

CONCRETE PILES AT ABUTMENTS AND APPROACH BENTS SHALL BE DRIVEN IN HOLES PRECORED THROUGH THE EMBANKMENT IN ACCORDANCE WITH ARTICLE 513.09 (C) OF THE STANDARD SPECIFICATIONS.

Indicates Porous Granular Embankment
Indicates Earth Embankment

TOTAL BILL OF MATERIALS

ITEM	UNIT	SUPER.	SUBSTR.	TOTAL
CLASS "X" CONCRETE	CU. YD.	660.0	581.0	1,241.0
REINFORCEMENT BARS	LBS.	86,430	55,200	141,330
REINFORCEMENT BARS (EPOXY-COATED)	LBS.	94,730	—	94,730
STRUCTURAL STEEL	LUMP SUM	1	—	1
STRUCTURE EXCAVATION	CU. YD.	—	1,002	1,002
CONCRETE PILES	LIN. FT.	—	7,308	7,308
TEST PILES, CONCRETE	EACH	—	3	3
P.P.C.-I BEAMS, 36"	LIN. FT.	624	—	624
NEOPRENE EXPANSION JOINT, (2")	LIN. FT.	203	—	203
NAME PLATES	EACH	2	—	2
SLOPEWALL (4")	SQ. YD.	—	1,112	1,112
STUD SHEAR CONNECTORS	EACH	3,654	—	3,654
ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	14	—	14
PROTECTIVE COAT	SQ. YD.	2,613	—	2,613
FLOOR DRAINS	EACH	20	—	20
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL*	CU. YD.	—	14,550	14,550
POROUS GRANULAR EMBANKMENT*	CU. YD.	—	14,550	14,550

*FOR INFORMATION ONLY. Additional Details of Removal, Replacement and Construction Phasing are shown on Detail Sheet No. 41.

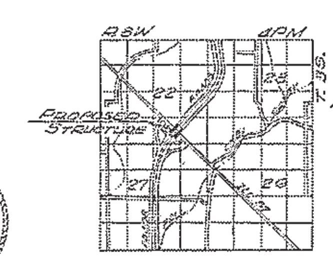
STATION 120+50.00
BUILT 19 BY
STATE OF ILLINOIS
F.A. RTE. 408 SEC.1-3HB
F.A. PROJ. EBF-408-1(57)
LOADING HS20
STR. NO.

NAME PLATE
(SEE STD. 2113)
Structure No. to be furnished by the District.

SECTION A-A

SECTION THRU SLOPEWALL

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

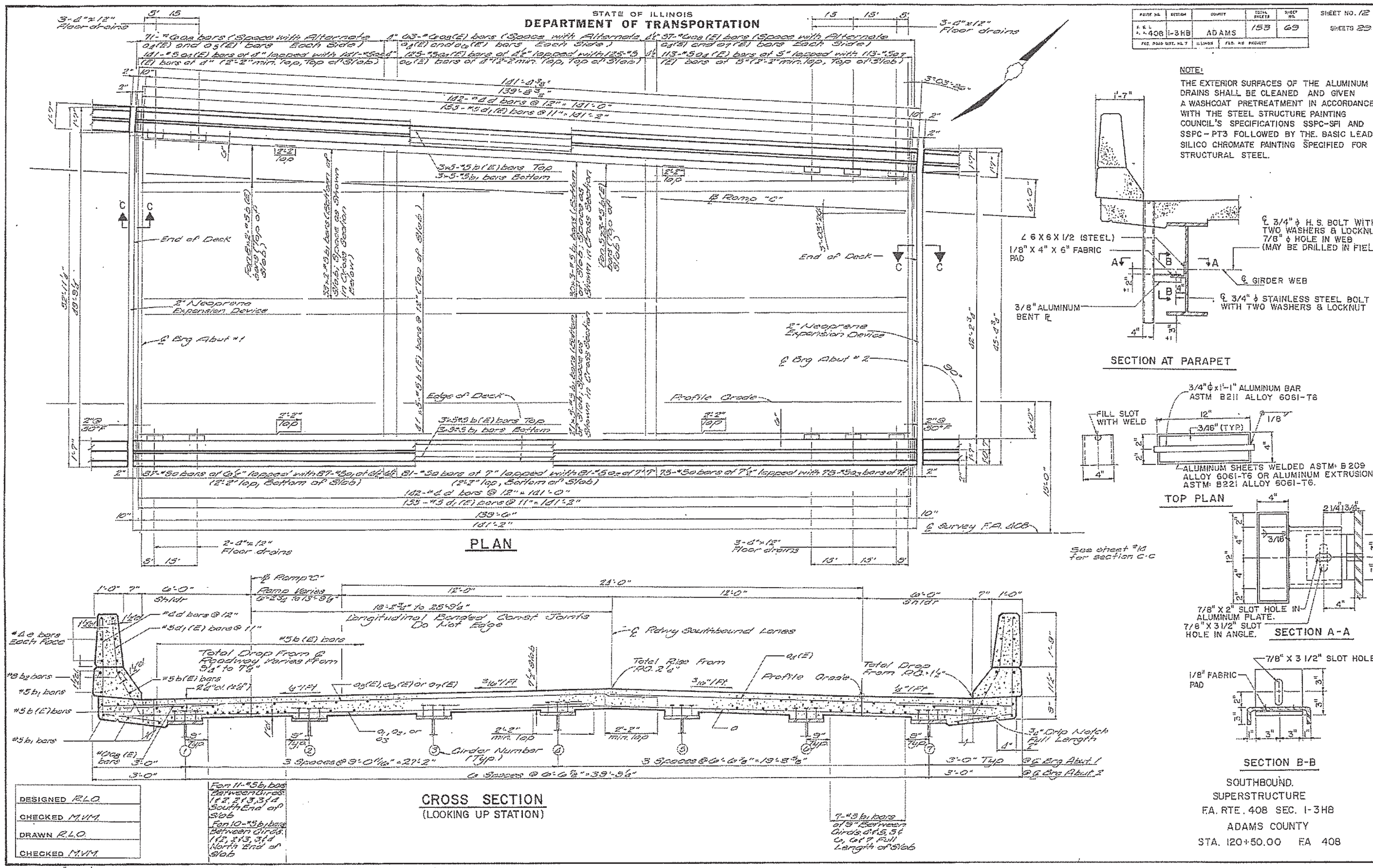


LOCATION SKETCH

GENERAL PLAN & ELEVATION
F.A. RTE. 408 Over Ill. 57
F.A. RTE. 408 SEC. 1-3HB
ADAMS COUNTY
STA. 120+50.00 F.A. 408

PLANS PREPARED BY AMERICAN ENGINEERING CO.

DESIGNED	MVM
CHECKED	RBY
DRAWN	RBY
CHECKED	MVM



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SHEET NO. 12
SHEETS 29
F.A. RTE. 408 | I-3HB | ADAMS | 153 | 69
PLAN
End of Deck
2" Neoprene Expansion Device
℄ Brg Abut #1
℄ Brg Abut #2
℄ Ramp "C"
Edge of Deck
Profile Grade
℄ Survey F.A. 408
2'-2" lap
3'-0"x12" Floor drains
See sheet #16 for section C-C
NOTE:
THE EXTERIOR SURFACES OF THE ALUMINUM DRAINS SHALL BE CLEANED AND GIVEN A WASHCOAT PRETREATMENT IN ACCORDANCE WITH THE STEEL STRUCTURE PAINTING COUNCIL'S SPECIFICATIONS SSPC-SP1 AND SSPC-PT3 FOLLOWED BY THE BASIC LEAD SILICO CHROMATE PAINTING SPECIFIED FOR STRUCTURAL STEEL.
∠ 6 X 6 X 1/2 (STEEL)
1/8" X 4" X 6" FABRIC PAD
3/8" ALUMINUM BENT ℞
℄ 3/4" ϕ H.S. BOLT WITH TWO WASHERS & LOCKNUT 7/8" ϕ HOLE IN WEB (MAY BE DRILLED IN FIELD)
℄ GIRDER WEB
℄ 3/4" ϕ STAINLESS STEEL BOLT WITH TWO WASHERS & LOCKNUT
SECTION AT PARAPET
3/4"ϕ x 1'-1" ALUMINUM BAR ASTM B211 ALLOY 6061-T6
FILL SLOT WITH WELD
3/16" (TYP)
ALUMINUM SHEETS WELDED ASTM B209 ALLOY 6061-T6 OR ALUMINUM EXTRUSION ASTM B221 ALLOY 6061-T6.
TOP PLAN
7/8" X 2" SLOT HOLE IN ALUMINUM PLATE.
7/8" X 3 1/2" SLOT HOLE IN ANGLE.
SECTION A-A
7/8" X 3 1/2" SLOT HOLE
1/8" FABRIC PAD
SECTION B-B
CROSS SECTION
(LOOKING UP STATION)
℄ Rdwy Southbound Lanes
Longitudinal Bonded Const. Joints Do Not Edge
Girder Number (Typ.)
3/4" Drip Notch Full Length
3 Spaces @ 9'-0 1/16" = 27'-2"
3 Spaces @ 6'-6 7/8" = 19'-8 5/8"
6 Spaces @ 6'-6 5/8" = 39'-3 3/4"
SOUTHBOUND.
SUPERSTRUCTURE
F.A. RTE. 408 SEC. I-3HB
ADAMS COUNTY
STA. 120+50.00 F.A. 408
DESIGNED R.L.O.
CHECKED M.V.M.
DRAWN R.L.O.
CHECKED M.V.M.

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		DATE -	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	D6 BDGE PAINTING 2015	ADAMS	30	24
		CONTRACT NO. 72H36		
		ILLINOIS FED. AID PROJECT		

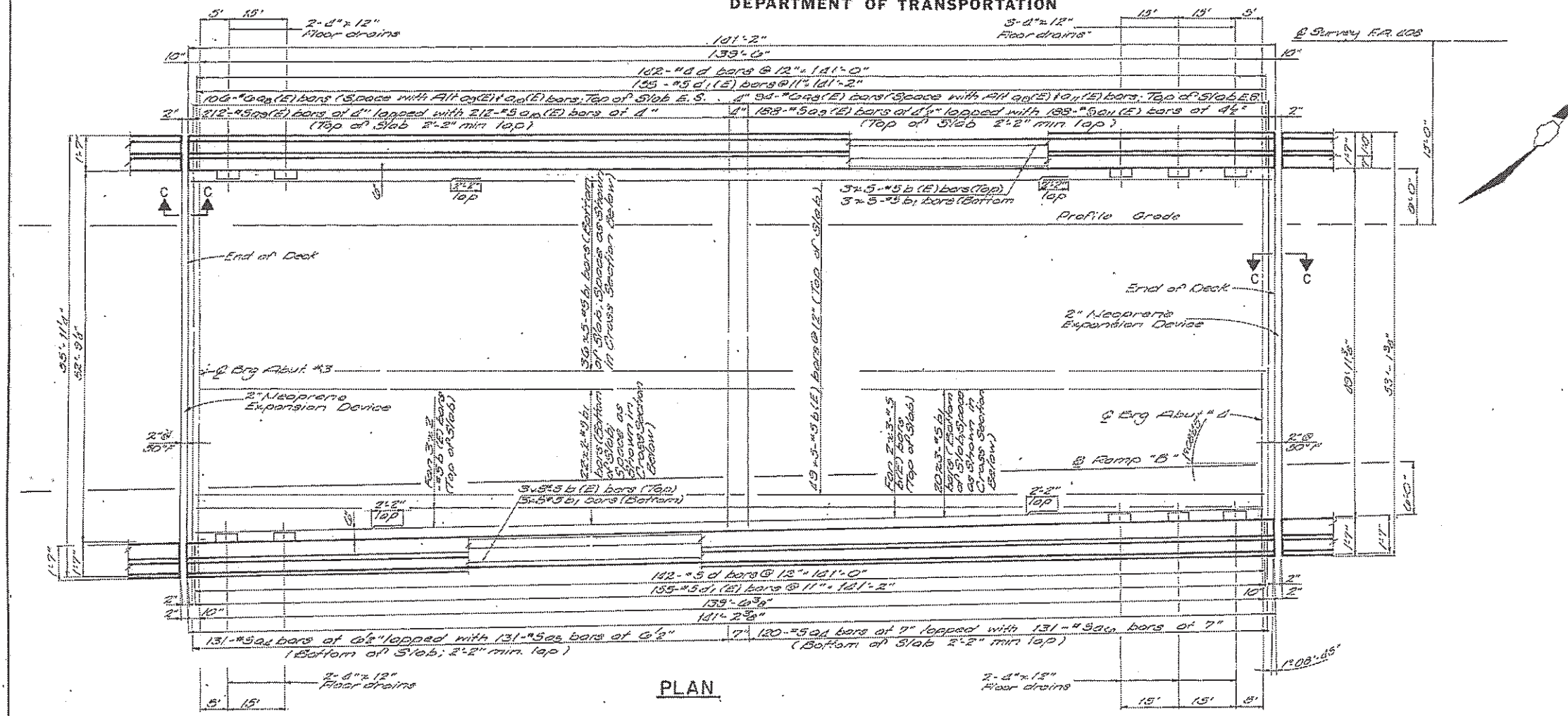
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

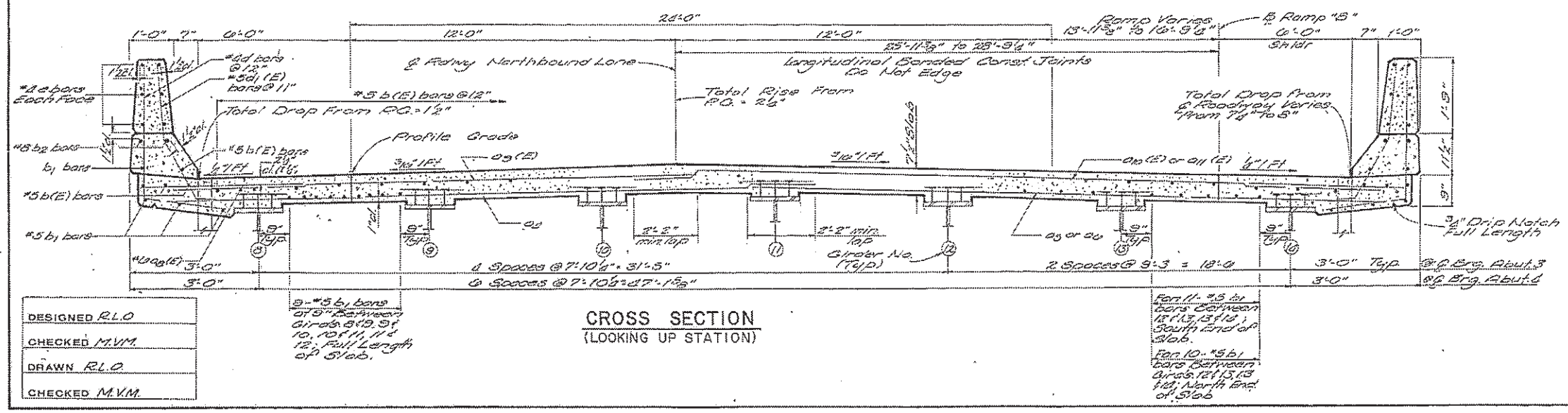
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. Rte. 408	I-3HB	ADAMS	153	70
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 13
SHEETS 29

FOR FLOOR DRAIN DETAILS, SEE SHEET NO. 12

FOR SECTION C-C, SEE SHEET NO. 14





CROSS SECTION
(LOOKING UP STATION)

DESIGNED	R.L.O
CHECKED	M.V.M.
DRAWN	R.L.O
CHECKED	M.V.M.

NORTHBOUND
SUPERSTRUCTURE
F.A. RTE. 408 SEC. I-3HB
ADAMS COUNTY
STA. 120+50.00 F.A. 408

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXSITING SN: 001-0064/65
FOR INFORMATION ONLY

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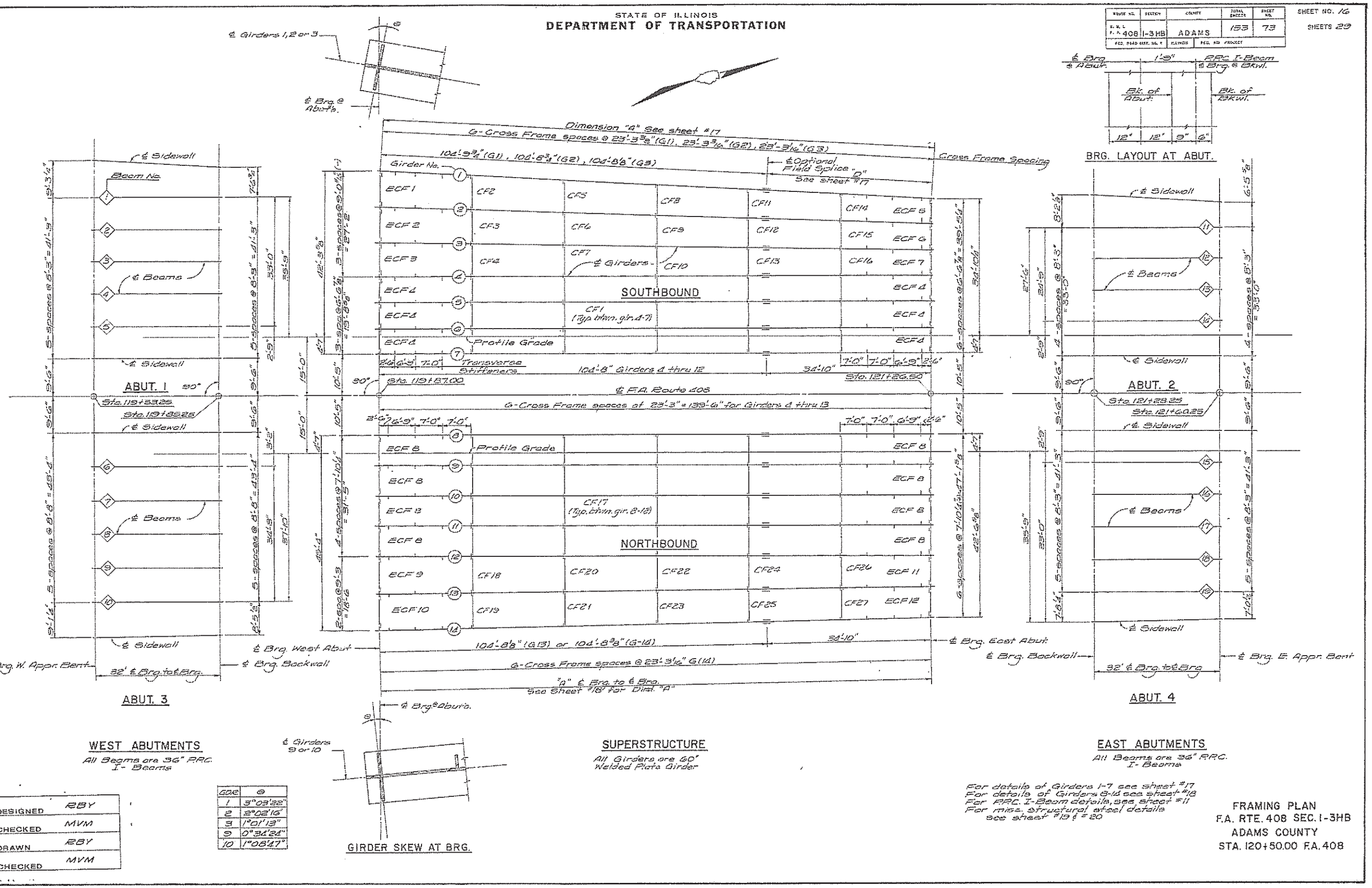
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	D6 BDGE PAINTING 2015	ADAMS	30	25
		CONTRACT NO. 72H36		
		ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 408	I-3HB	ADAMS	153	73
FED. ROAD DIST. NO. 9	ILLINOIS	FED. AID PROJECT		

SHEET NO. 16
SHEETS 29



WEST ABUTMENTS

All Beams are 36" PRC. I- Beams

DESIGNED	RBY
CHECKED	MVM
DRAWN	RBY
CHECKED	MVM

GDR	ϑ
1	3°03'22"
2	2°02'16"
3	1°01'13"
9	0°31'24"
10	1°08'47"

SUPERSTRUCTURE

All Girders are 60" Welded Plate Girder

EAST ABUTMENTS

All Beams are 36" PRC. I- Beams

For details of Girders 1-7 see sheet #17
For details of Girders 8-14 see sheet #18
For PRC. I-Beam details, see sheet #11
For misc. structural steel details see sheet #19 & #20

FRAMING PLAN
F.A. RTE. 408 SEC. 1-3HB
ADAMS COUNTY
STA. 120+50.00 F.A. 408

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXSITING SN: 001-006465
FOR INFORMATION ONLY

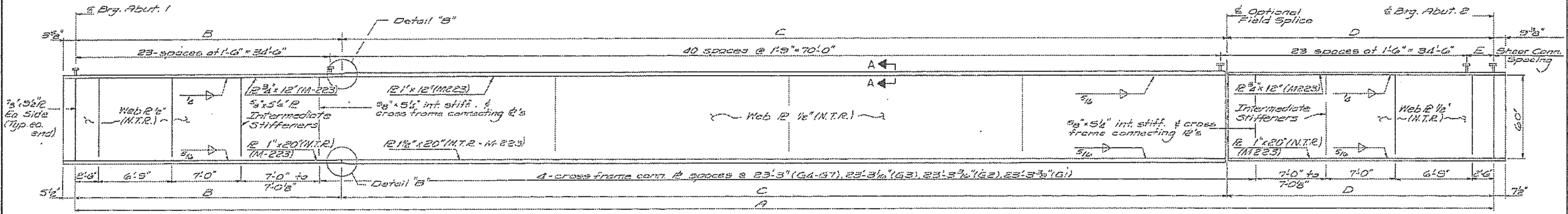
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	06 BOGE PAINTING 2015	ADAMS	30	26
		CONTRACT NO. 72H36		
		ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 408	I-3HB	ADAMS	153	74

SHEET NO. 17
SHEETS 29



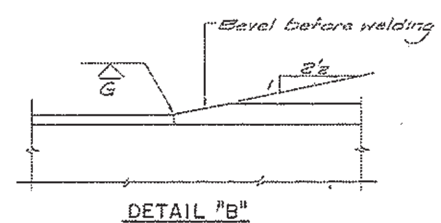
GIRDER ELEVATION

NOTE: All dimensions are measured along ℄ of girder.

N.T.R. denotes Notch Toughness Requirements are applicable.

Work this sheet with sheets 16, 19 & 20

All flange plates, and splice plates as noted, shall be AASHTO M-223 steel, Grade 50. All other steel shall be AASHTO M-183.



DETAIL "B"

(Also to be used at optional field splice location, if field splice is omitted.)

GIRDER DIMENSIONS					
	A	B	C	D	E
1	139'-8⅝"	34'-10⅝"	69'-11⅛"	34'-10⅝"	8⅝"
2	139'-7"	34'-10½"	69'-10½"	34'-10½"	7"
3	139'-6¼"	34'-10⅛"	69'-10"	34'-10⅛"	6¼"
4	139'-6"	34'-10"	69'-10"	34'-10"	6"
5	139'-6"	34'-10"	69'-10"	34'-10"	6"
6	139'-6"	34'-10"	69'-10"	34'-10"	6"
7	139'-6"	34'-10"	69'-10"	34'-10"	6"

TOP OF WEB ELEVATIONS (For Fabrication Only)							
	1	2	3	4	5	6	7
℄ Brg. Abut. 1	517.63	517.82	518.01	518.15	518.15	518.04	517.92
℄ Opt. Field Splice	521.34	521.49	521.63	521.74	521.74	521.63	521.51
℄ Brg. Abut. 2	521.97	522.11	522.23	522.34	522.33	522.23	522.10

LOAD FACTORS 1.3[DL+5/3(LL+I)] ARE USED FOR COMPUTING MOM. & STRESSES

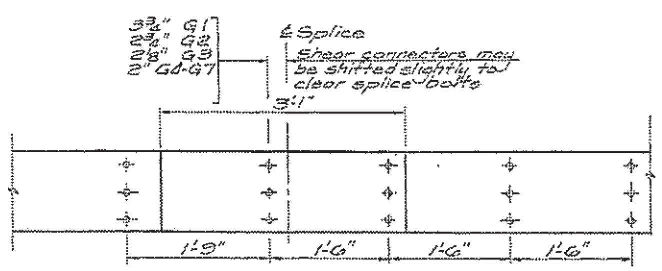
Is AND Ss ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE STEEL SECTION.

Ic AND Sc ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE COMPOSITE SECTION.

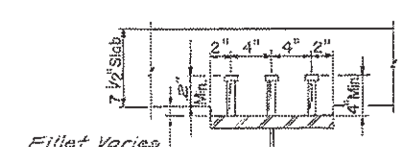
VR IS THE MAXIMUM LL+I SHEAR RANGE IN THE SPAN.

INTERIOR GIRDER MOMENT TABLE				
		0.25 SPAN	0.5 SPAN	0.75 SPAN
Is	(in⁴)	33990.	44235	33990
Ssa	(in³)	1344	1861	1344
DL	(k/ft)	.94	.96	.89
MDL	(ft-k)	2253	2988	2235
fsa DL	(ksi)	20.1	19.3	20.0
Ic (n=27)	(in⁴)	60112	74852	60112
Sca	(in³)	1661	2222	1661
SDL	(k/ft)	.288	.282	.275
MSDL	(ft-k)	673	890	662
fsa SDL	(ksi)	4.9	4.8	4.8
Ic (n=9)	(in⁴)	84998	107039	84998
Sca	(in³)	1826	2427	1826
ML.L.	(ft-k)	2850	3436	2431
MIMP	(ft-k)	539	650	460
MLLTOTAL	(ft-k)	3389	4085	2891
fsa L.L.	(ksi)	22.3	20.2	19.0
fsa TOTAL	(ksi)	47.5	44.3	43.8
VR	(k)	67.20	—	—

REACTION TABLE			
REACTION		ABUT. 1	ABUT. 2
RDL	(k)	86.3	83.3
RLL	(k)	58.2	47.3
RIMP	(k)	11.0	8.9
RTOTAL	(k)	155.5	139.5

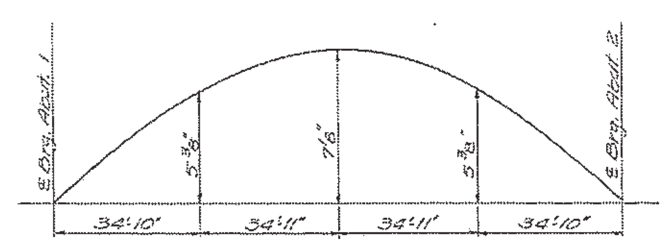


OPTIONAL SPLICE DETAIL
(STUD SPACING)



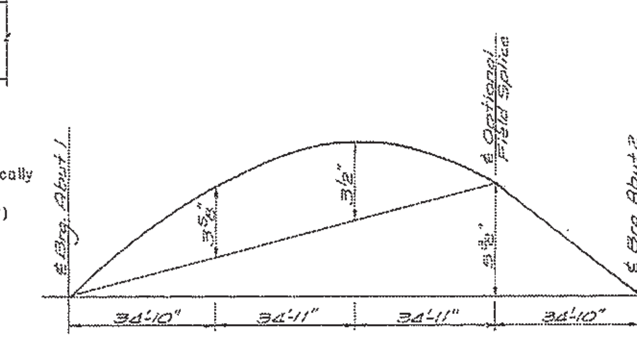
3/4" φ Granular or Solid Flux Filled Headed Studs Automatically End Welded to Flange. (No. Required = 1827, Girders 1-7)

SECTION A-A



CAMBER DIAGRAM

(STEEL AND DECK DEAD LOADS)
(WITHOUT OPTIONAL FIELD SPLICE)



CAMBER DIAGRAM

(WITH OPTIONAL FIELD SPLICE)

GIRDERS 1-7
STRUCTURAL STEEL
F.A. RTE. 408 SEC. 1-3HB
ADAMS COUNTY
STA. 120+50.00 F.A. 408

DESIGNED	JNG
CHECKED	MVM
DRAWN	JNG
CHECKED	RBY

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXSITING SN: 001-0064&65
FOR INFORMATION ONLY

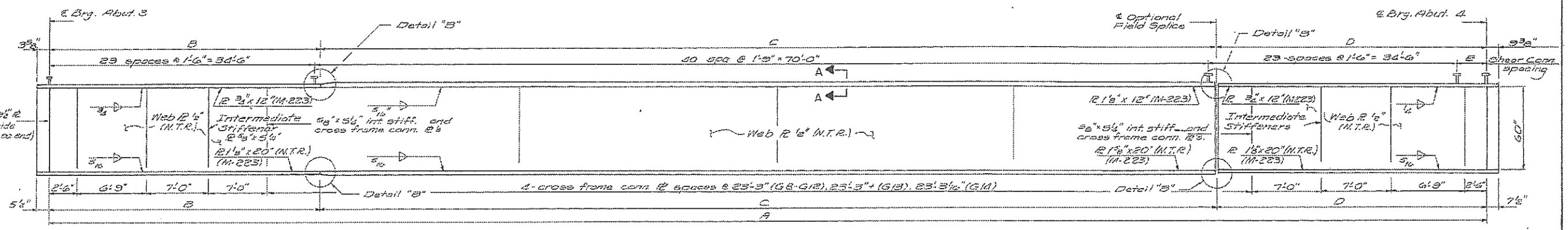
SCALE: SHEET OF SHEETS STA. TO STA.

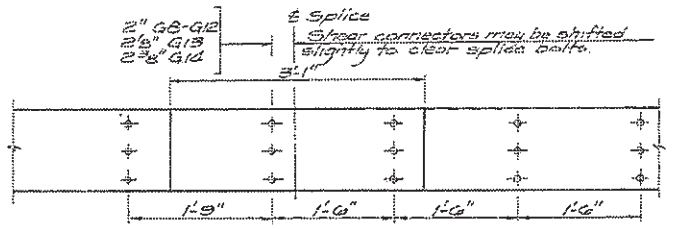
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	06 BDGE PAINTING 2015	ADAMS	30	27
		CONTRACT NO. 72H36		
	ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

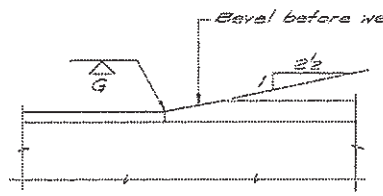
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. I.L. 408	I-3HB	ADAMS	153	75
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 18
SHEETS 29





OPTIONAL SPLICE DETAIL
(STUD SPACING)



DETAIL "B"
(Also to be used at optional field splice location, if field splice is omitted)

GIRDER ELEVATION

NOTE. All dimensions are measured along ℄ of girder.

N.T.R. denotes Notch Toughness Requirements are applicable.

Work this sheet with sheets 16, 19, & 20

All flange plates and splice plates as noted shall be AASHTO M-223 steel, Grade 50. All other steel shall be AASHTO M-183.

LOAD FACTORS 1.3 [DL+S/3(LL+I)] ARE USED FOR COMPUTING MOM. & STRESSES

Ig AND Sg ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE STEEL SECTION.

Ic AND Sc ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE COMPOSITE SECTION.

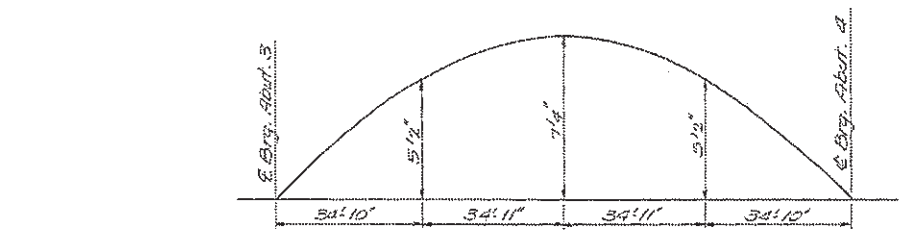
VR IS THE MAXIMUM LL+I SHEAR RANGE IN THE SPAN.

GIRDER DIMENSIONS							
GIRDER	A	B	C	D	E		
8	139'-6"	34'-10"	69'-10"	34'-10"	6"		
9	139'-6"	34'-10"	69'-10"	34'-10"	6"		
10	139'-6"	34'-10"	69'-10"	34'-10"	6"		
11	139'-6"	34'-10"	69'-10"	34'-10"	6"		
12	139'-6"	34'-10"	69'-10"	34'-10"	6"		
13	139'-6⅛"	34'-10"	69'-10⅛"	34'-10"	6⅛"		
14	139'-6⅜"	34'-10"	69'-10⅜"	34'-10"	6⅜"		

TOP OF WEB ELEVATIONS (For Fabrication Only)							
	8	9	10	11	12	13	14
℄ Brg. Abut. 3	517.92	518.04	518.19	518.09	517.95	517.74	517.57
℄ Opt. Field Splice	521.51	521.65	521.78	521.68	521.54	521.37	521.20
℄ Brg. Abut. 4	522.10	522.25	522.37	522.28	522.14	521.98	521.81

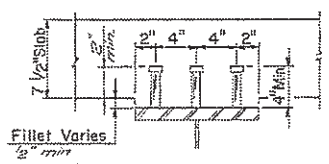
INTERIOR GIRDER MOMENT TABLE				
		0.25 SPAN	0.50 SPAN	0.75 SPAN
Is	(in⁴)	35532	47312	35532
Ssb	(in³)	1457	2007	1457
DL	(k/ft)	1.01	1.05	0.99
MDL	(ft-k)	2452	3272	2434
fsb DL	(ksi)	20.2	19.6	20.1
Ic (n=27)	(in⁴)	69301	79115	69301
Scb	(in³)	1756	2367	1756
SDL	(k/ft)	0.303	0.300	0.298
MSDL	(ft-k)	713	949	710
fsbSDL	(ksi)	4.8	4.8	4.7
Ic (n=9)	(in⁴)	80323	112754	90325
Scb	(in³)	1974	2580	1974
MLL	(ft-k)	2772	3550	2694
MIMP	(ft-k)	524	672	509
MLLTOTAL	(ft-k)	3296	4228	3203
fsb LL	(ksi)	20.0	19.7	19.5
fs TOTAL	(ksi)	45.0	44.1	44.3
VR	(k)	67.2	—	—

REACTION TABLE			
REACTION		ABUT. 3	ABUT. 4
RDL	(k)	92.8	91.7
RLL	(k)	99.1	93.3
RIMP	(k)	11.2	10.1
RTOTAL	(k)	163.4	155.1



CAMBER DIAGRAM
(WITH OPTIONAL FIELD SPLICE)

CAMBER DIAGRAM
(STEEL AND DECK DEAD LOADS)
(WITHOUT OPTIONAL FIELD SPLICE)



¾" ϕ Granular or Solid Flux Filled Headed Studs Automatically End Welded to Flange. (No. Required = 1827, Girders 8-14)

SECTION A-A

DESIGNED	JNG
CHECKED	MWM
DRAWN	JNG
CHECKED	RBY

GIRDERS 8-14
STRUCTURAL STEEL
F.A. RTE. 408 SEC. 1-3H8
ADAMS COUNTY
STA. 120+50.00 F.A.408

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXSITING SN: 001-006465
FOR INFORMATION ONLY

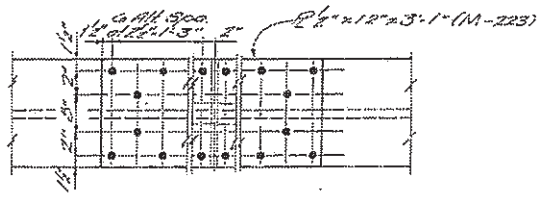
SCALE: | SHEET OF SHEETS | STA. | TO STA.

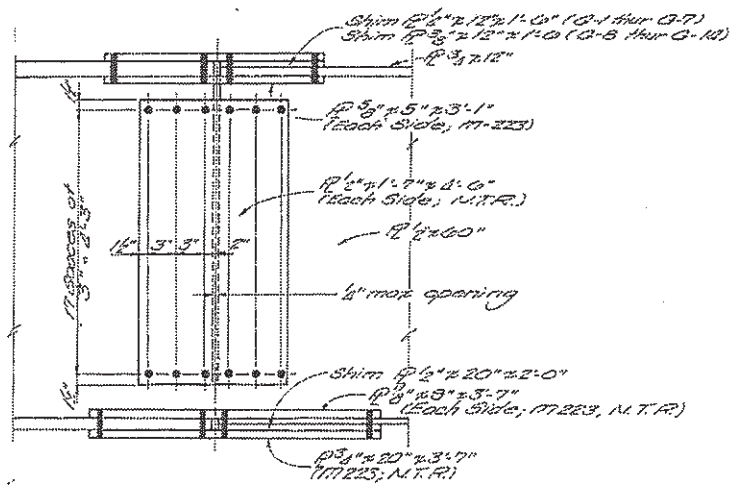
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	D6 BDGE PAINTING 2015	ADAMS	30	28
		CONTRACT NO. 72H36		
	ILLINOIS FED. AID PROJECT			

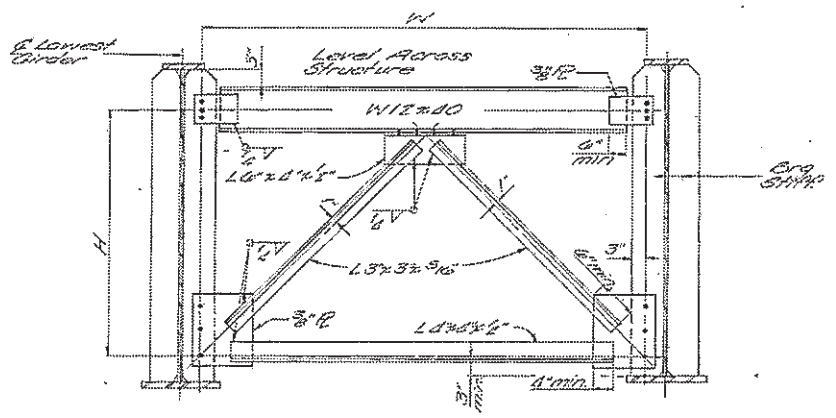
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 408	I-3HB	ADAMS	153	76
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 13
SHEETS 29

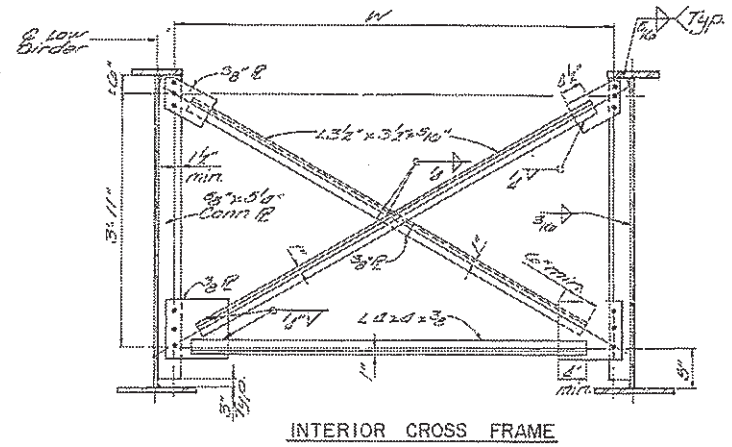




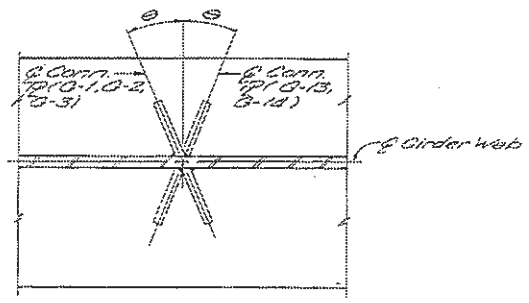


END CROSS FRAME

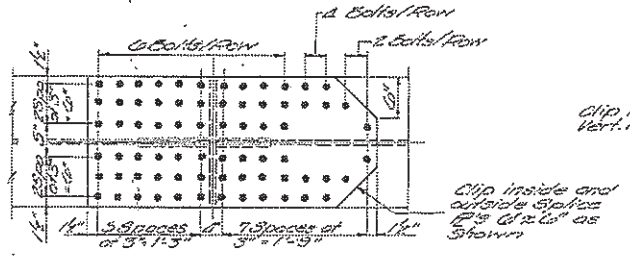
H Dimensions
Abut 1 - 3'-5¾"
Abut 2 - 3'-7⅝"
Abut 3 - 3'-8⅝"
Abut 4 - 3'-5½"



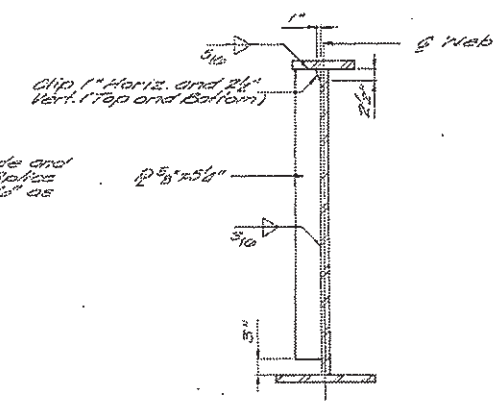
INTERIOR CROSS FRAME



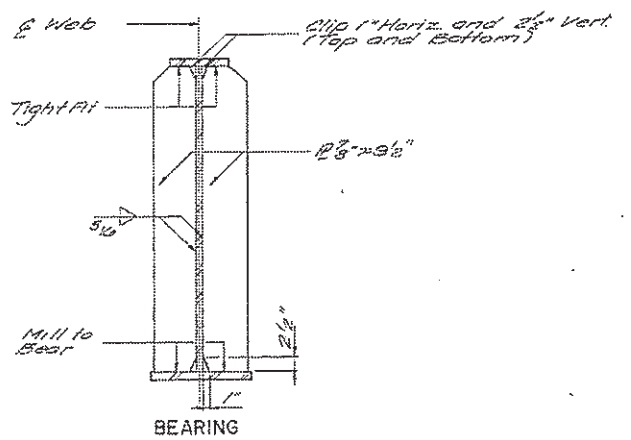
CONNECTION R DETAIL
(GIRDERS 1-3, 13, 14)



SPLICE DETAILS
(ALL BOLTS 7/8"ØH.S.)
15/16" ℄ Holes



INTERMEDIATE STIFFENERS



BEARING STIFFENERS

Notes:

For interior girder space stiffeners on alternate sides of web

For exterior girders space stiffeners on interior face of web

All contact surfaces of the joints for cross frames shall be free of paint or lacquer

Use ⅞" Ø High strength bolts in 15/16" Ø Holes for cross frame connections. Provide hardened washers over all holes (2 per Bolt)

DIAPHRAGM DIMENSIONS

TYPE	W	θ°	TYPE	W	θ°	TYPE	W	θ°	TYPE	W	θ°	TYPE	W	θ°
CF1	5'-10⅝"	—	CF11	6'-8⅜"	3.06	CF21	8'-1⅜"	1.15	EOF1	7'-11½"	3.06	EOF11	6'-8⅜"	0.57
CF2	7'-1⅜"	3.06	CF12	6'-8⅜"	2.04	CF22	7'-10⅜"	0.57	EOF2	7'-11½"	2.04	EOF12	6'-8⅜"	1.15
CF3	7'-1⅜"	2.04	CF13	6'-8⅜"	1.02	CF23	7'-10⅜"	1.15	EOF3	7'-11½"	1.02			
CF4	7'-1⅜"	1.02	CF14	6'-3⅝"	3.06	CF24	7'-7⅝"	0.57	EOF4	5'-5⅜"	—			
CF5	7'-0⅜"	3.06	CF15	6'-3⅝"	2.04	CF25	7'-7⅝"	1.15	EOF5	5'-5⅜"	3.06			
CF6	7'-0⅜"	2.04	CF16	6'-3⅝"	1.02	CF26	7'-5"	0.57	EOF6	5'-5⅜"	2.04			
CF7	7'-0⅜"	1.02	CF17	7'-2⅝"	—	CF27	7'-5"	1.15	EOF7	5'-5⅜"	1.02			
CF8	7'-1⅜"	3.06	CF18	8'-4⅝"	0.57				EOF8	6'-8⅜"	—			
CF9	7'-1⅜"	2.04	CF19	8'-4⅝"	1.15				EOF9	8'-1½"	0.57			
CF10	7'-1⅜"	1.02	CF20	8'-1⅜"	0.57				EOF10	8'-1½"	1.15			

DESIGNED	RLO
CHECKED	JNG
DRAWN	RLO
CHECKED	MVM

STEEL DETAILS
F.A. RTE. 408 SEC. 1-3HB
ADAMS COUNTY
STA. 120+50.00 F.A. 408

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXSITING SN: 001-0064/65
FOR INFORMATION ONLY
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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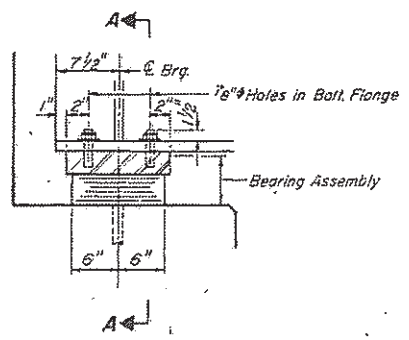
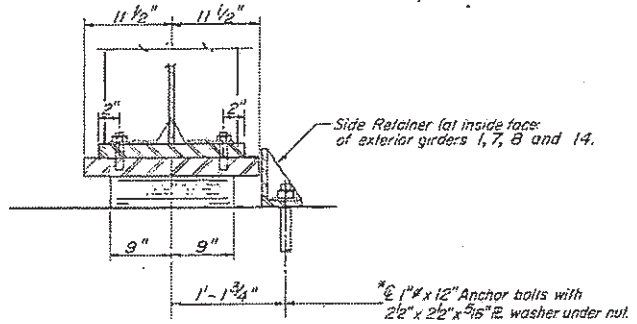
		CONTRACT NO. 72H36		
	ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

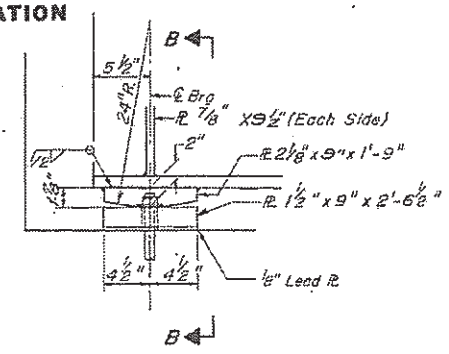
				SHEET NO. 20
408	I-3HB	ADAMS	153	177	SHEETS 29



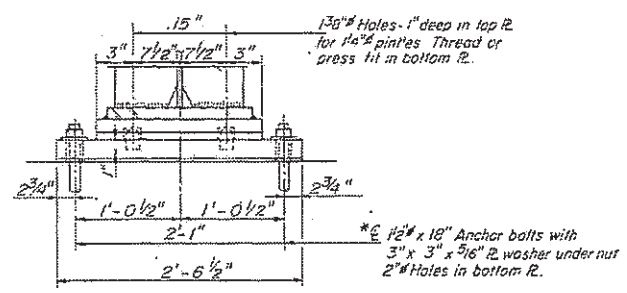
SECTION AT ABUT. 2 & 4
(Looking South)



SECTION A-A



ELEVATION AT ABUT. 1 & 3
(Looking North)

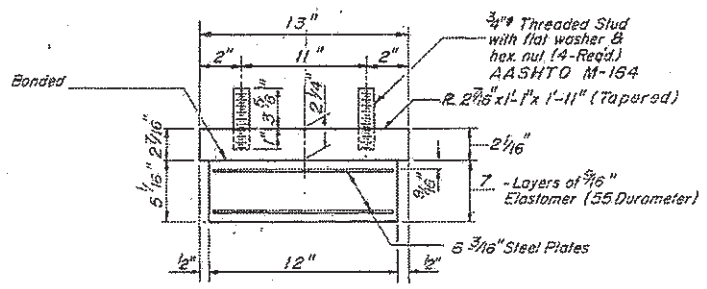


SECTION B-B

TYPE I ELASTOMERIC EXP. BRG.

FIXED BEARING

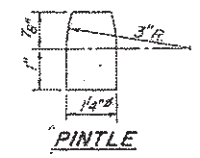
*Note: After girders have been erected holes of expansion bearings shall be drilled and anchor bolts grouted in place. Anchor bolts at fixed bearings may be built into the masonry.



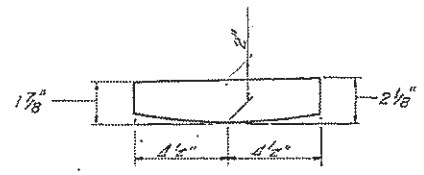
BEARING ASSEMBLY
(Looking South)

Note: Shim plates shall not be placed under Bearing Assembly.

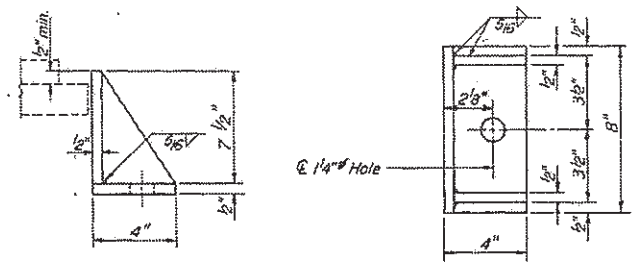
Gir.	θ	A	B
1	3°03'22"	1'-1 11/16"	3/4"
7	0°	1'-1 3/16"	0"
8	0°	1'-1 3/16"	0"
14	1°08'47"	1'-1 3/32"	1/4"



PINTLE

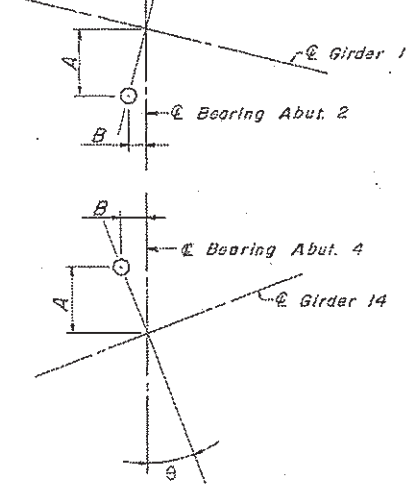


TOP PLATE
(Taper Detail)

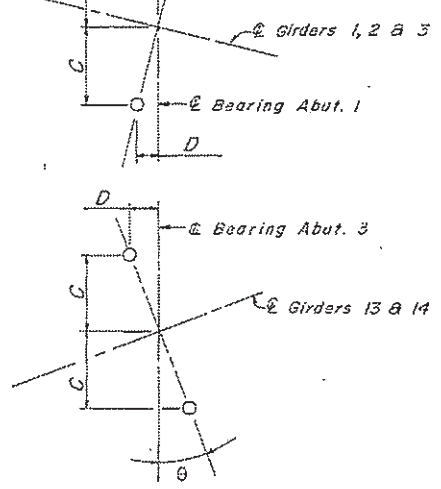


SIDE RETAINER
(Four Required)

Gir.	θ	C	D
1	3°03'22"	1'-0½"	11/16"
2	2°02'16"	1'-0½"	7/16"
3	1°01'13"	1'-0½"	1/2"
4-12	0°	1'-0½"	0"
13	0°34'24"	1'-0½"	1/8"
14	1°08'47"	1'-0½"	1/4"



ANCHOR BOLT LAYOUT - Abut. 2 & 4



ANCHOR BOLT LAYOUT - Abut. 1 & 3

BEARING DETAILS
F.A.I. RTE. 408 SEC. 1-3 HB
ADAMS COUNTY
STA. 120+50.00 F.A. 408

DESIGNED -	JNG
CHECKED	RLO
DRAWN	BSB
CHECKED	MYM

I-2-E1 4-1-79

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXSITING SN: 001-0064/65
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 72H36		
		ILLINOIS FED. AID PROJECT		