

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

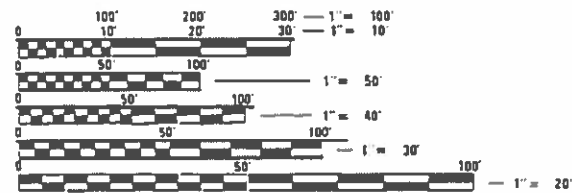
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	(102) BP	MONTGOMERY	6	1
MONTGOMERY COUNTY			CONTRACT NO. 72K79	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED BRIDGE PAINTING

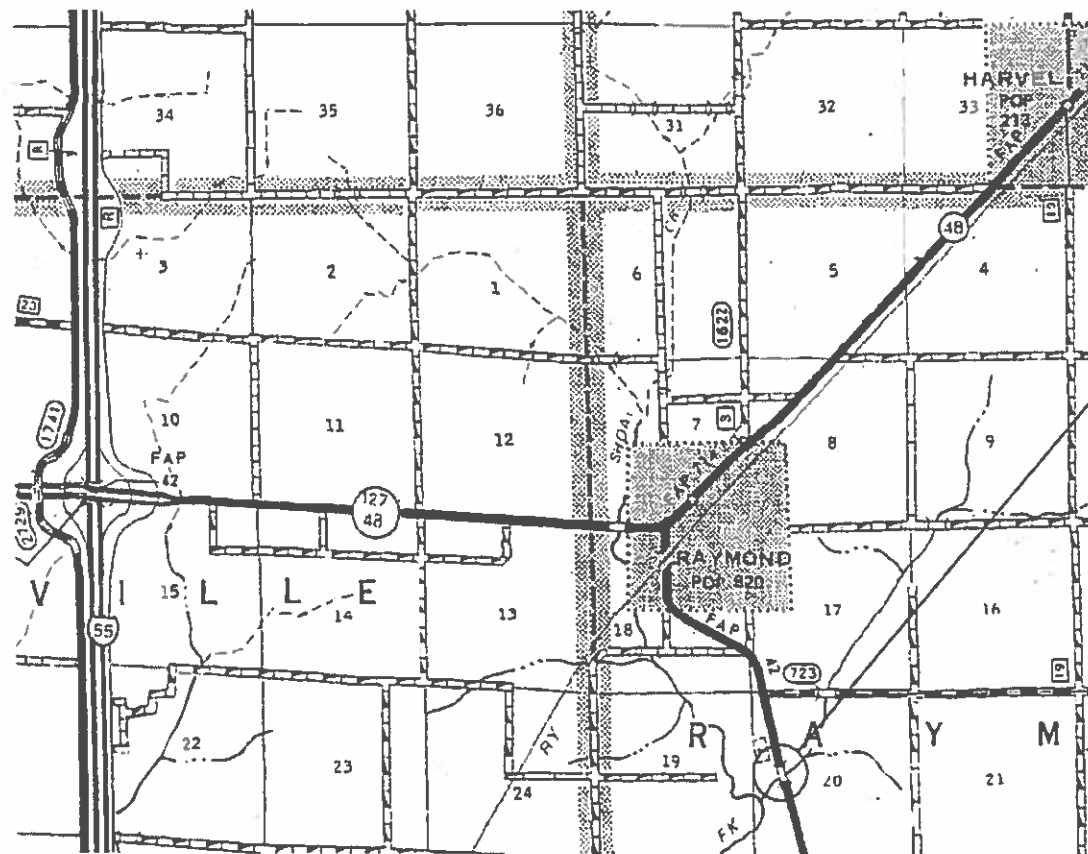
FAP 42 (IL 127)
SECTION (102) BP
PROJECT STP-RITD(611)
BRIDGE PAINTING
MONTGOMERY COUNTY

C-96-113-18



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

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



PROJECT LOCATION
SN 068-0058
IL 127 OVER W FK SHOAL CR TRIB
1.6 MI S IL 48

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

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

CONTRACT NO. 72K79

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 30 October 2018

[Signature]
REGIONAL ENGINEER

Feb 9 2019
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

Feb 19 2019
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX, STANDARDS, GENERAL NOTES, & SIGNATURES
- 3 SUMMARY OF QUANTITIES
- 4-6 EXISTING BRIDGE PLANS (FOR INFORMATION ONLY)

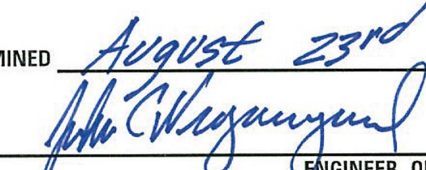
HIGHWAY STANDARDS

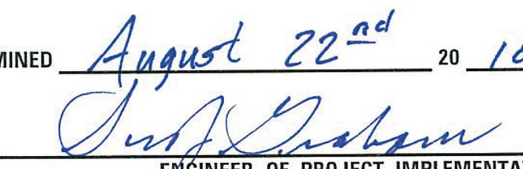
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- 001006
- 701001-02
- 701006-05
- 701201-05
- 701901-08

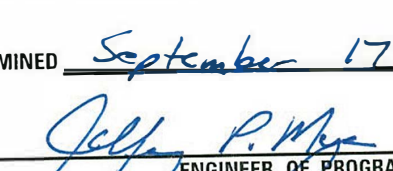
GENERAL NOTES:

1. WORK SHALL CONSIST OF BLASTING AND PAINTING STRUCTURAL STEEL AT LOCATIONS DESCRIBED IN THE SPECIAL PROVISIONS. CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL AREAS TO BE PAINTED 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 COATS SHALL BE AS DESCRIBED IN THE SPECIAL PROVISIONS.
2. THE USE OF AIR MONITORS WILL NOT BE REQUIRED.
3. THE SSPC-OP-1 AND SSPC-OP2 PAINTING CONTRACTOR CERTIFICATIONS WILL BE REQUIRED.
4. UPON COMPLETION OF PAINTING OPERATIONS, THE CONTRACTOR SHALL REMOVE ALL DEBRIS FROM PIER OR ABUTMENT CAPS UPON WHICH PAINTING OPERATIONS TOOK PLACE. FINAL CLEANUP SHALL BE CONSIDERED INCIDENTAL TO THE PAINT PAY ITEM FOR THE RESPECTIVE LOCATION. THE ENGINEER SHALL HAVE THE RIGHT TO WITHHOLD PAYMENT UNTIL SATISFACTORY CLEANUP IS ACHIEVED.

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

EXAMINED August 23rd 20 18

 ENGINEER OF OPERATIONS

EXAMINED August 22nd 20 18

 ENGINEER OF PROJECT IMPLEMENTATION

EXAMINED September 17 20 18

 ENGINEER OF PROGRAM DEVELOPMENT

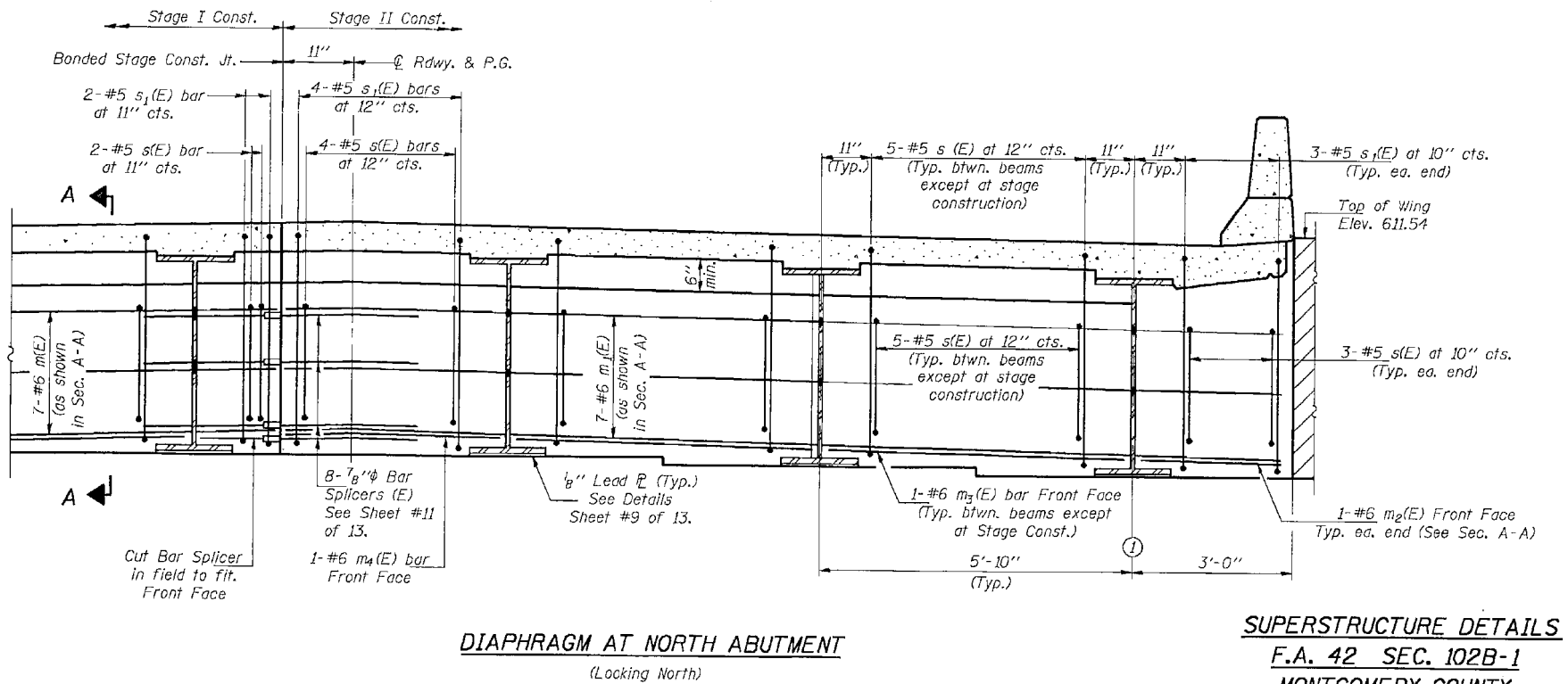
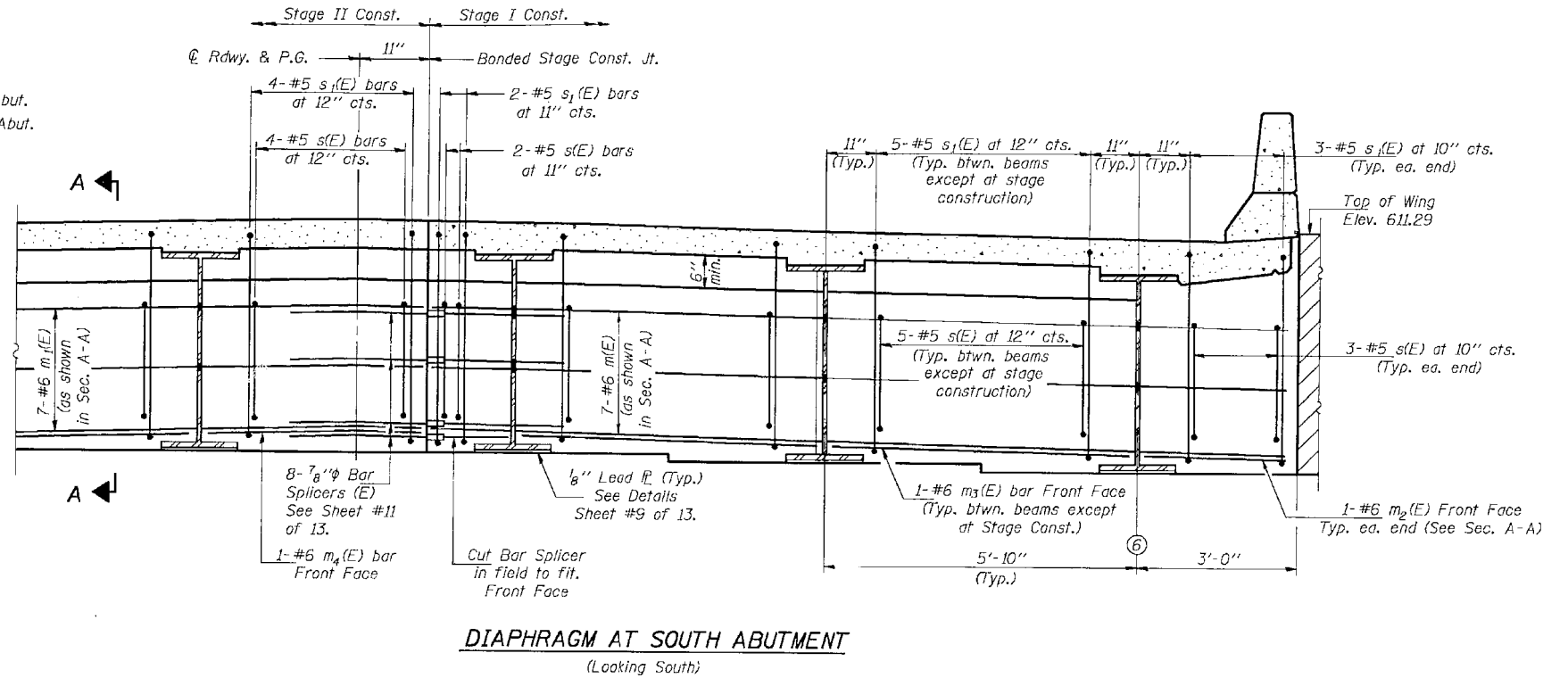
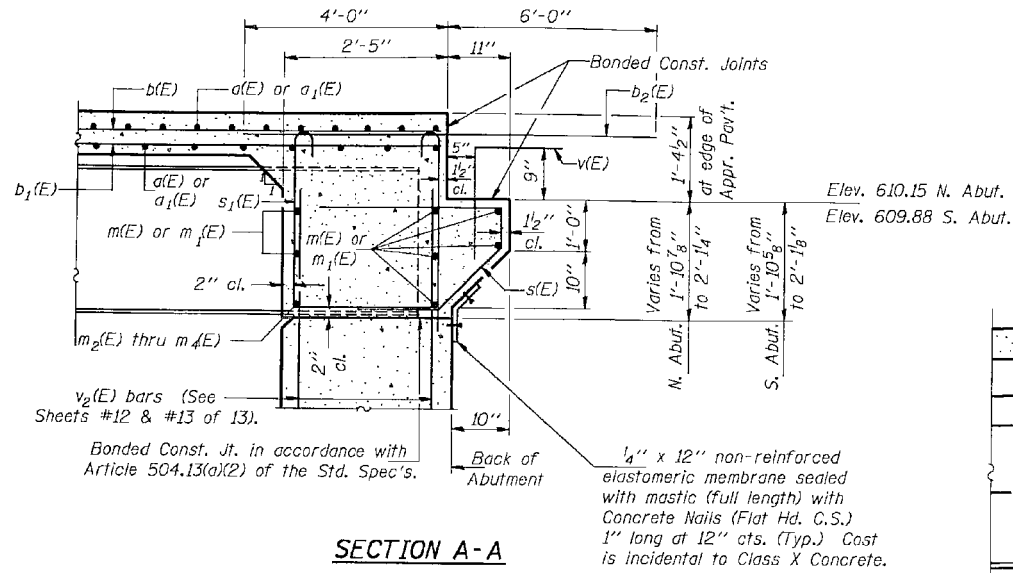
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USLR NAME = dualeym	DESIGNED -	REVISED -																												
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PLOT DATE = 10/26/2018	CHECKED -	REVISED -																												
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CONTRACT NO. 72K79																														
SCALE: _____ SHEET OF SHEETS STA. _____ TO STA. _____		ILLINOIS IED - ID PROJECT																												

REV. - MS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
F.A. 42	102B-1	MONTGOMERY	73	35
FED. ROAD DIST. NO. 9	ILLINOIS	FED. AID PROJECT-		13 SHEETS



Notes: Reinforcement bars and Class X Concrete in diaphragms are billed with Superstructure on Sht. #8 of 13. See Sht. #6 of 13 for notes.

DESIGNED <i>Christy Williams</i>	EXAMINED <i>Raj J. Kaspar</i>	APPROVED <i>Ralph E. Anderson</i>
CHECKED <i>Stanley S. Linn</i>	PASSED	
DRAWN <i>Rita Williams</i>		
CHECKED <i>CHM, S. R.</i>		

March 8 1990

ENGINEER OF BRIDGE DESIGN

ENGINEER OF BRIDGES AND STRUCTURES

DIRECTOR OF HIGHWAYS

SUPERSTRUCTURE DETAILS
F.A. 42 SEC. 102B-1
MONTGOMERY COUNTY
STA. 1083+67.00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS, SN 068-0058
(FOR INFORMATION ONLY)

USER NAME = dudleybm	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/26/2018	CHECKED -	REVISED -
	DATE -	REVISED -

SCALE: SHEET OF SHEETS STA. TO STA.

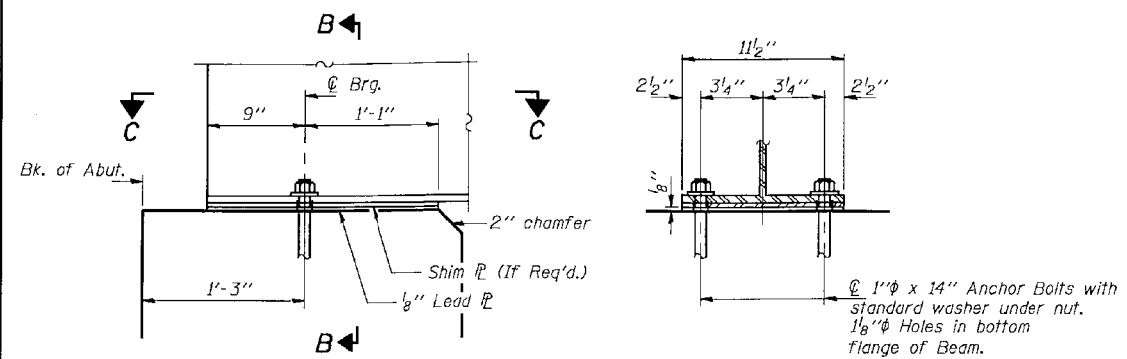
F.A.P. RTE. 42	SECTION (102) BP	COUNTY MONTGOMERY	TOTAL SHEETS 6	SHEET NO. 5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72K79	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 9
F.A. 42	102B-1	MONTGOMERY	73	37	13 SHEETS
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT			

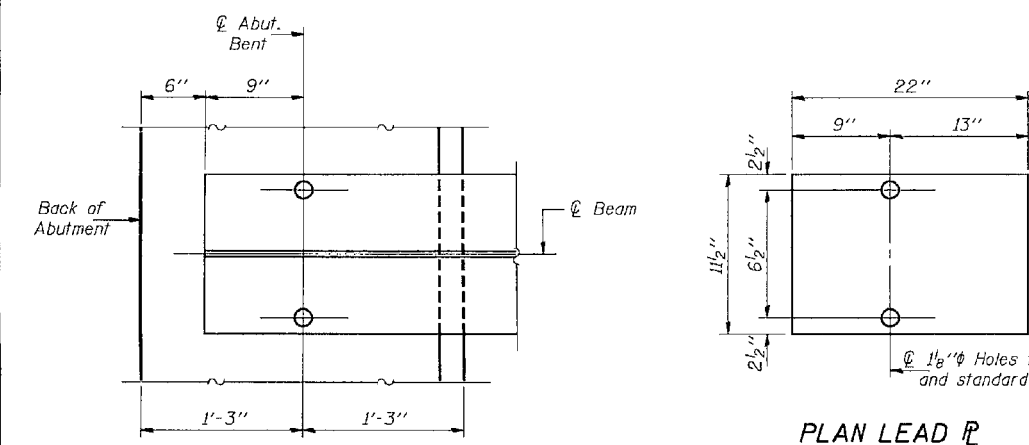
INTERIOR BEAM MOMENT TABLE	
0.5 Span	
I_s	(in ⁴) 5,900
I_c	(in ⁴) 15,480
S_s	(in ³) 359
S_c	(in ³) 527
I_p	(K/ft.) 0.693
M_D	(K) 383
s_D	(K/ft.) 0.290
M_{sD}	(K) 160
M_L	(K) 490
M (Imp)	(K) 127
$S_3(M_L+I)$	(K) 1,028
M_a	(K) 2,043
M_u	(K) 2,986
f_{sD} non-comp (k.s.i.)	12.8
f_{sD} (comp) (k.s.i.)	3.64
$f_{sD_3}(L+I)$ (k.s.i.)	23.4
f_s (Overload) (k.s.i.)	39.84
VR	(K) 41.4

* INTERIOR BEAM REACTION TABLE	
R_D	(K) N.S. Abut.
R_L	(K) 32.7
Imp.	(K) 8.6
R (Total)	(K) 74.1



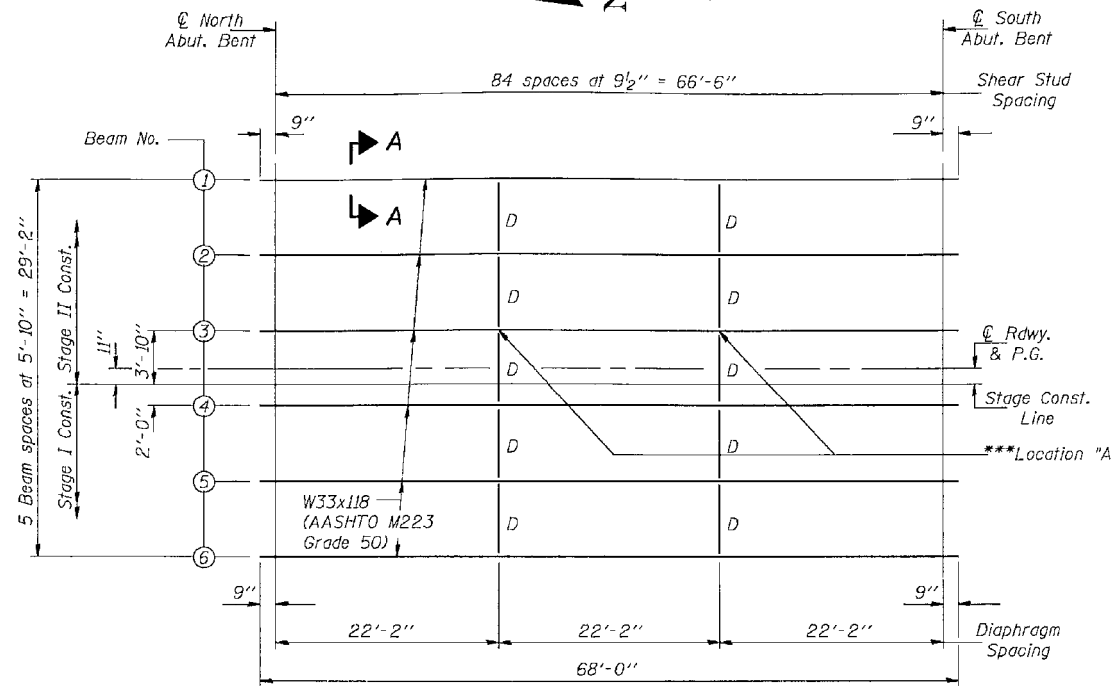
SECTION AT ABUTMENTS

SECTION B-B



SECTION C-C

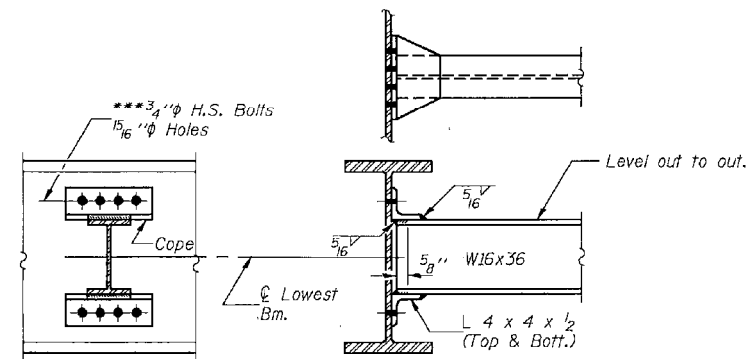
PLAN LEAD



FRAMING PLAN

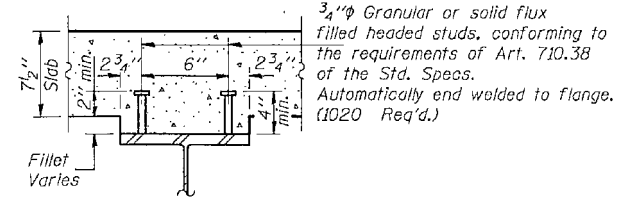
(Notch Toughness Requirements are required for all W33x118 Wide Flange Beams)

Removing and reinstalling of bolts for Diaphragm D at Beam #4 for Stage II Construction shall be cost incidental to "Structural Steel."

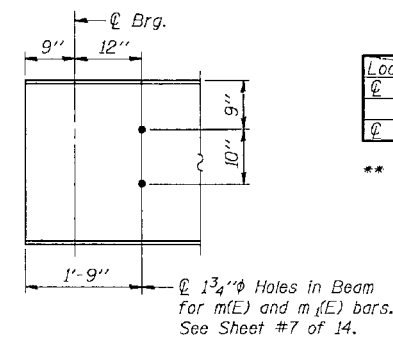


DIAPHRAGM D
15 Required

***Use 1 1/8" x 1 1/2" slotted holes in L 4 x 4 x 1/2 at Location "A" only. Provide 5/16" plate washers for slotted holes. Bolts shall be finger-tightened prior to the deck pour for Stage II Construction. Tighten bolts after deck is poured.



SECTION A-A



END OF BEAM ELEVATION

** TOP OF BEAM ELEVATIONS

Loc.	Bm.	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6
Brq. N. Abut.		610.79	610.89	610.98	610.98	610.89	610.79
Brq. S. Abut.		610.54	610.64	610.73	610.73	610.64	610.54

** For Fabrication Only.

STRUCTURAL STEEL DETAILS
F.A. 42 SEC. 102B-1
MONTGOMERY COUNTY
STA. 1083+67.00

DESIGNED	March 8 1970	EXAMINED	Stanley S. Linn
CHECKED	Rita Williams	PASSED	Ralph E. Anderson
DRAWN	CHM, S L	APPROVED	DIRECTOR OF HIGHWAYS

Note: Two hardened washers shall be required over all 1 1/8" holes.

MODEL: Default
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USER NAME = dudleybm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS, SN 068-0058 (FOR INFORMATION ONLY)	F.A.P. RTE. 42	SECTION (102) BP	COUNTY MONTGOMERY	TOTAL SHEETS 6	SHEET NO. 6
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -	SCALE:	SHEET OF SHEETS STA. TO STA.	CONTRACT NO. 72K79				
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