

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	*	COLES	12	1

* D7 BRIDGE PAINTING 2011-1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAI ROUTE 57 (I-57)
SECTION D7 BRIDGE PAINTING 2011-1

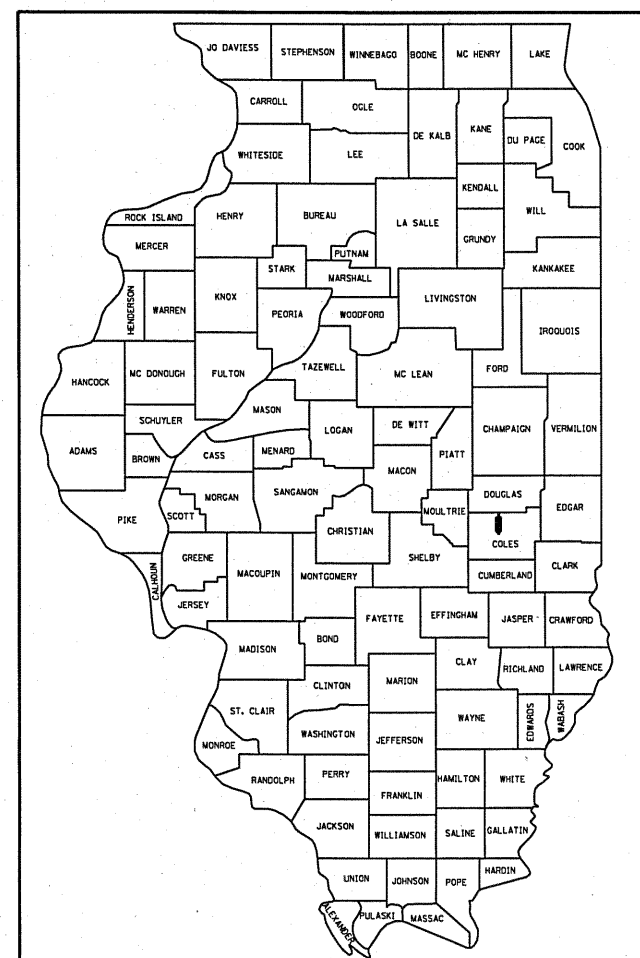
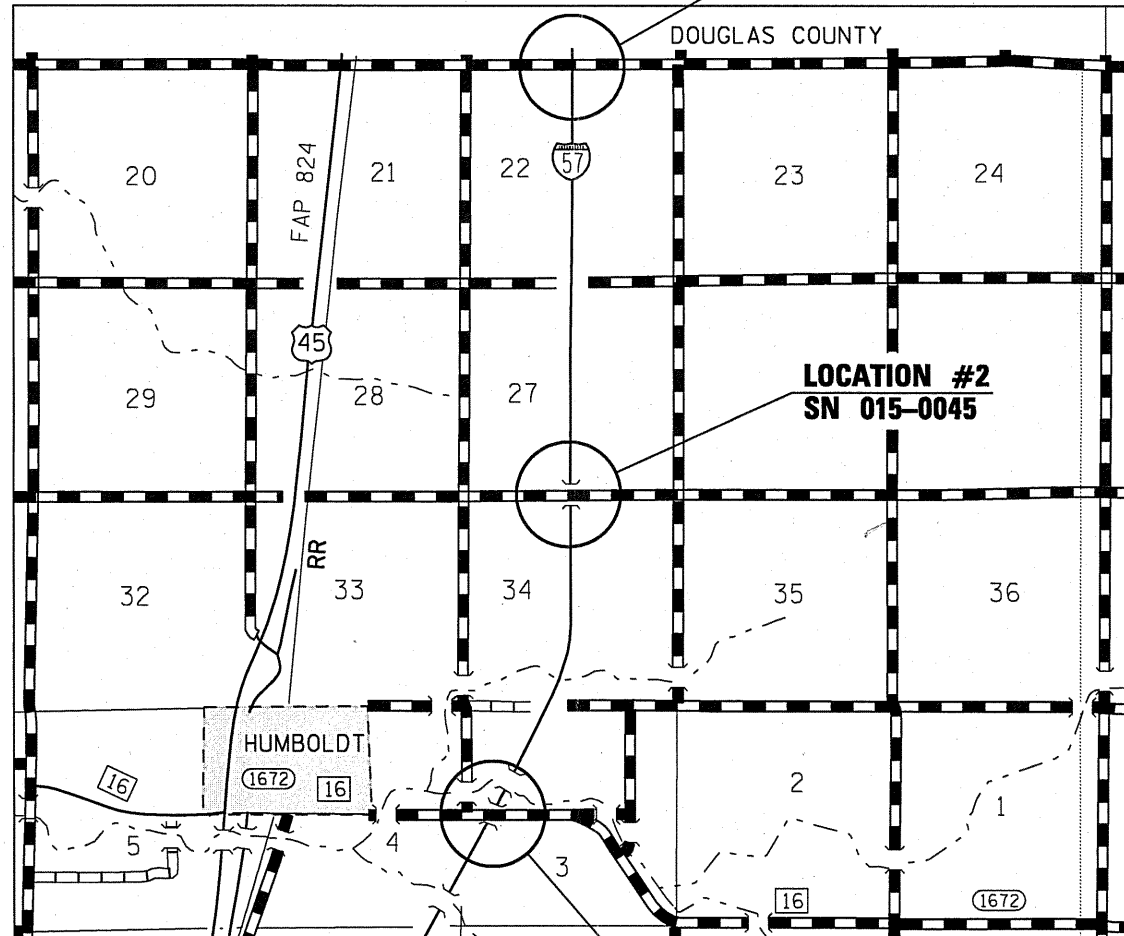
BRIDGE PAINTING
COLES COUNTY

C-97-147-10

LOCATION #3
SN 015-0063

R 8 E

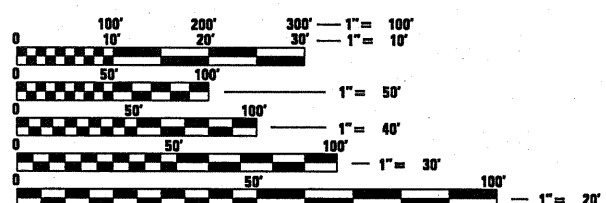
DOUGLAS COUNTY



LOCATION OF SECTION INDICATED THUS: ———

FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT = 17,500



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: TOM RONAN
PROJECT MANAGER: TOM RONAN

CONTRACT NO. 74496

LOCATION #1
SN 015-0033

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Oct 20 20 10
Scott E. Stitt
DEPUTY DIRECTOR OF HIGHWAYS/REGION ENGINEER

Dec 10 20 10
Christine M. Reed
ENGINEER OF DESIGN AND ENVIRONMENT

Dec 10 20 10
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS, GENERAL NOTES, LOCATION DESCRIPTIONS
3	SUMMARY OF QUANTITIES
4-12	EXISTING STRUCTURE PLANS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 12.

STANDARD 701001-02	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
STANDARD 701006-03	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
STANDARD 701101-02	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
STANDARD 701106-02	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
STANDARD 701400-05	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
STANDARD 701406-06	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
STANDARD 701901-01	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007; THE SUPPLEMENTAL SPECIFICATIONS, THE RECURRING SPECIAL PROVISIONS, AND THE SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

THE PROPOSED PROJECT IS LOCATED AT 3 LOCATIONS ON I-57 IN COLES COUNTY.

THE WORK INCLUDED IN THIS SECTION CONSISTS OF CLEANING AND PAINTING BRIDGES AT 3 LOCATIONS AS SPECIFIED IN THE PLANS AND SPECIAL PROVISIONS.

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

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

ALL TRASH AND PAINTING DEBRIS, EXCLUDING WASTE BARRELS OR ROLL-OFF DUMPSTERS, SHALL BE REMOVED BEFORE BEGINNING WORK AT ANOTHER LOCATION.

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

THE SSPC OP1 AND OP2 PAINTING CONTRACTOR CERTIFICATION WILL BE REQUIRED FOR THIS PROJECT.

BRIDGE INFORMATION & LOCATIONS

LOCATION #1

ROUTE: FAI 57
 MARKED: I-57
 SECTION: 15-24HB-1
 STATION: 1197+38.95
 STRUCTURE NUMBER: 015-0033

TYPE OF BRIDGE: Wide Flange I Beams-4 Spans (5 Beams)
 LOCATION: East of Humboldt
 FEATURE CARRIED/SPANNED: CH 16 over I-57

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

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

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

One air monitor will be required at this location.

LOCATION #2

ROUTE: FAI 57
 MARKED: I-57
 SECTION: 15-25HB
 STATION: 1281+52.63
 STRUCTURE NUMBER: 015-0045

TYPE OF BRIDGE: Wide Flange I Beams-4 Spans (5 Beams)
 LOCATION: 2 Miles South of the Douglas County Line
 FEATURE CARRIED/SPANNED: TR 23 over I-57

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

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

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

Two air monitors will be required at this location.

LOCATION #3

ROUTE: FAI 57
 MARKED: I 57
 SECTION: 15.21-25HB-1
 STATION: 1386+91
 STRUCTURE NUMBER: 015-0063

TYPE OF BRIDGE: Wide Flange I Beams-4 Spans (5 Beams)
 LOCATION: Coles/Douglas County Line
 FEATURE CARRIED/SPANNED: TR 13 over I-57

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

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

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

Two air monitors will be required at this location.

• D7 BRIDGE PAINTING 2011-1

FILE NAME =	USER NAME = swertzrw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS GENERAL NOTES & LOCATIONS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\p\work\puidot\swertzrw\d0209782\d77	496-shr-index.dgn	DRAWN -	REVISED -		57		COLES	12	2			
	PLOT SCALE = 48.0000' / IN.	CHECKED -	REVISED -		SCALE: NA			SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 74496	
	PLOT DATE = 10/1/2010	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

100% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE
CODE NO	ITEM	UNIT		0021
Z000711Z	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES	L SUM	1	1
67100100	MOBILIZATION STANDARD 701406	L SUM	1	1
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1	1
Z0010503	CLEANING AND PAINTING STEEL BRIDGE NO. 3	L SUM	1	1

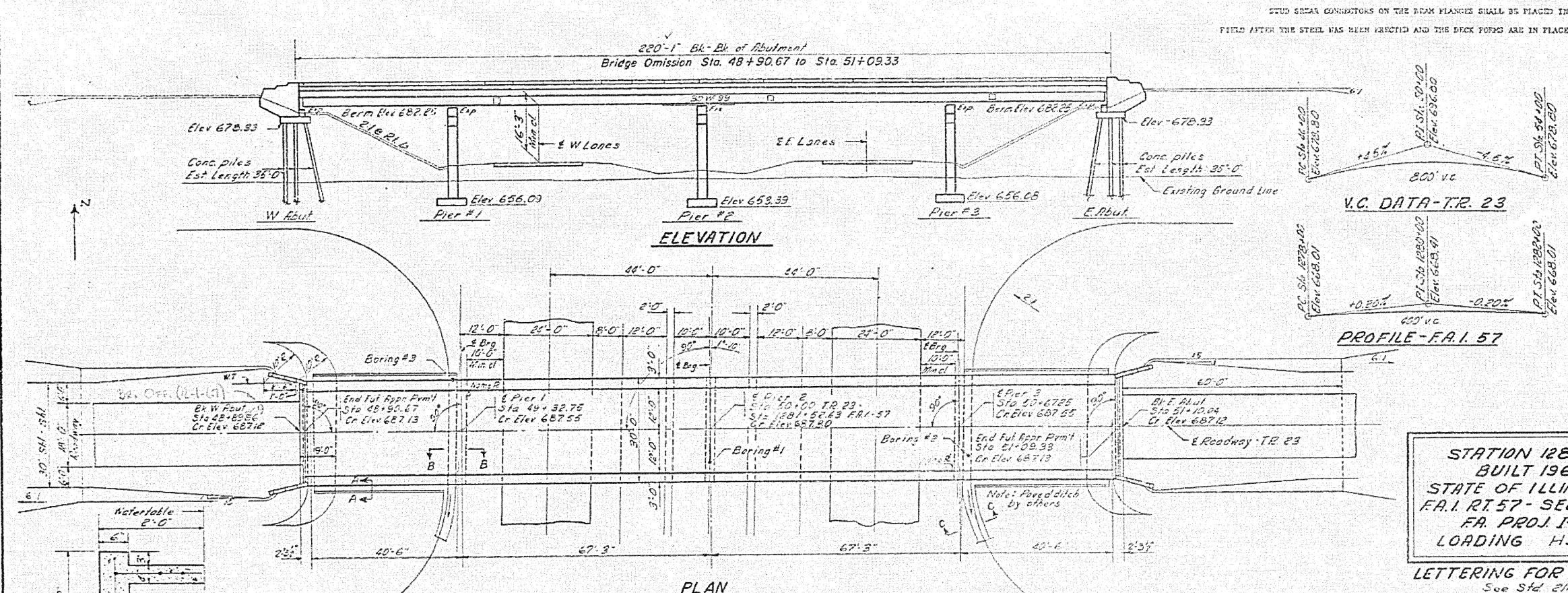
• D7 BRIDGE PAINTING 2011-1

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw\work\pwidot\swartzw\d0209782\d774496-shr-soq.dgn	4496-shr-soq.dgn	DRAWN -	REVISED -		57	•	COLES	12	3			
PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -	REVISED -		CONTRACT NO. 74496							
PLOT DATE = 8/24/2018	DATE -	REVISED -	REVISED -		SCALE: NA	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			

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

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
157	15-25HB	COLES	23	71
PROJECT NO.	DATE	BY	SCALE	
7-57-5(71)	7-57-5(71)			

Start Drive on South side of 44' cottonwood
22' W of Sta 1281+52.63 Elev 668.82



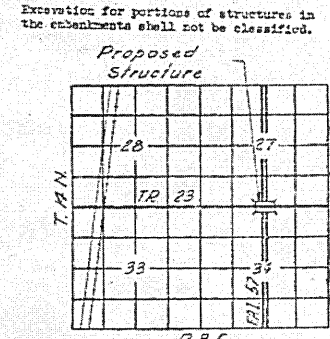
GENERAL NOTES

Course aggregate to be used in end post parapet must be absolutely free of chert, flint, limonite, lignite and soft sandstone. The concrete floor slab shall be finished in accordance with Article 5119 of the Standard Specifications. Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58# per 100 sq. ft. All reinforcement bars shall be lapped 20 diameters unless otherwise shown. Permanent forms will not be permitted in forming concrete floor. Rivets 3/4" open holes 1 1/2" unless otherwise noted. Anchor bolts shall be set before riveting diaphragms over supports. The exposed surfaces of the expansion guard shall be given two shop coats of red lead paint the contact surfaces shall be given one coat of red lead paint. Anchor studs shall not be painted. Expansion guards are included in quantity of structural steel. Est weight - 660 lbs. Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Article 54.1 to 54.5 inclusive of the standard specifications. The contractor shall drive one concrete test pile in a permanent location at West abutment as directed by the Engineer before ordering the remainder of the piles. Concrete piles at abutments shall be driven in holes precast through the embankment in accordance with Article 60-9(c) of the standard specifications.

V.C. DATA - T.R. 23

PROFILE - F.A.I. 57

STATION 1281+52.63
BUILT 196 BY
STATE OF ILLINOIS
F.A.I. RT 57 - SEC. 15-25HB
FA PROJ. I-57-5(71)
LOADING HS-15
LETTERING FOR NAME R
See Std 2113-1



LOCATION PLAN

TOTAL BILL OF MATERIALS

Item	Unit	Sup	Sub	Total
Class 2 Excavation for Structure	Cu Yds		230	230
Class X Concrete	Cu Yds	228.6	224.3	452.9
Structural Steel	Lbs	135,900		135,900
Aluminum Handrail	Lin Ft	434		434
Reinforcement Bars	Lbs	41,270	15,850	57,120
Concrete Piles	Lin Ft		735	735
Test Pile (Concrete)	Each		1	1
Name Plates	Each		2	2
Slope Wall	Sq Yds		360	360
Protective Coat	Sq Yds	820		820

NOTE: For earthwork quantities see sheet 5

DESIGN STRESSES

fc = 1400 psi. Super & Sub
fv = 75 psi. Flgs
fs = 20,000 psi Reinf
fs = 20,000 psi Struct.
n = 10
Max. soil pressure under Flgs = 4 1/2'
4 Deflection 1/100 non-composite
1/500 composite
LOADING HS-15-44

GENERAL PLAN & ELEVATION

PROJ. I-57-5(71) 199
T.R. 23 OVER F.A.I. RT. 57
F.A.I. RT. 57 - SEC. 15-25HB
COLES COUNTY
STA. 1281+52.63

Boring No.	Station	Offset	Elev	N	Remarks	W (%)
Boring No 1 Station 1281+43 Offset 70' Right			662.0		Ground Surface 662.0	
					Medium black organic clay (top soil mixture)	
			660.3		Stiff gray brown mottled silty clay	
			659.0		Stiff brown mottled clay	
			657.5		Hard brown mottled clay loam fill with olive inclusions (Gravelly)	
			654.8		Very stiff brown mottled clay fill (Gravelly)	
			652.1		Hard gray clay loam fill with olive inclusions (Gravelly)	
			650.0		Very stiff gray clay fill (Gravelly)	
			648.0		Hard gray clay loam fill with olive inclusions (Gravelly)	
			645.3		Hard gray clay fill (Gravelly)	
Boring No 2 Station 1281+45 Offset 70' Right			659.0		Very stiff sandy clay fill (Gravelly) 37%	
			658.0		Stiff brown mottled clay	
			657.5		Hard brown mottled clay loam fill with olive inclusions (Gravelly)	
			654.8		Very stiff brown mottled clay fill (Gravelly)	
			652.1		Hard gray clay loam fill with olive inclusions (Gravelly)	
			650.0		Very stiff gray clay fill (Gravelly)	
			648.0		Hard gray clay loam fill with olive inclusions (Gravelly)	
			645.3		Hard gray clay fill (Gravelly)	
			642.1		Very stiff gray silty clay fill (Gravelly)	
			640.9		Hard gray clay fill (Gravelly)	
Boring No 3 Station 1281+67 Offset 70' Left			658.0		Ground Surface 658.0	
					Medium dark gray clay (top soil mixture)	
			660.1		Stiff brown gray mottled clay	
			654.6		Very stiff (Gravelly)	
			653.1		Hard gray clay loam fill with olive inclusions (Gravelly)	
			651.1		Hard gray clay fill (Gravelly)	
			648.1		Hard gray clay fill (Gravelly)	
			642.1		Very stiff gray silty clay fill (Gravelly)	
			640.9		Hard gray clay fill (Gravelly)	

N - Standard Penetration Test Blows per foot to drive 3" O.D. Split Spoon Sampler 12" with 140# hammer falling 30"

Qu - Unconfined Compressive Strength - 1/2" w - water Content - percent - age of oven dry weight - %

Type failure: S - Bulge Failure, S - Shear Failure, E - Estimated Value, F - Flow Failure

DESIGNED J.M. Spaworth
CHECKED Nabil R. Zahradnik
DRAWN T.B. Fuller
CHECKED N.R.F.

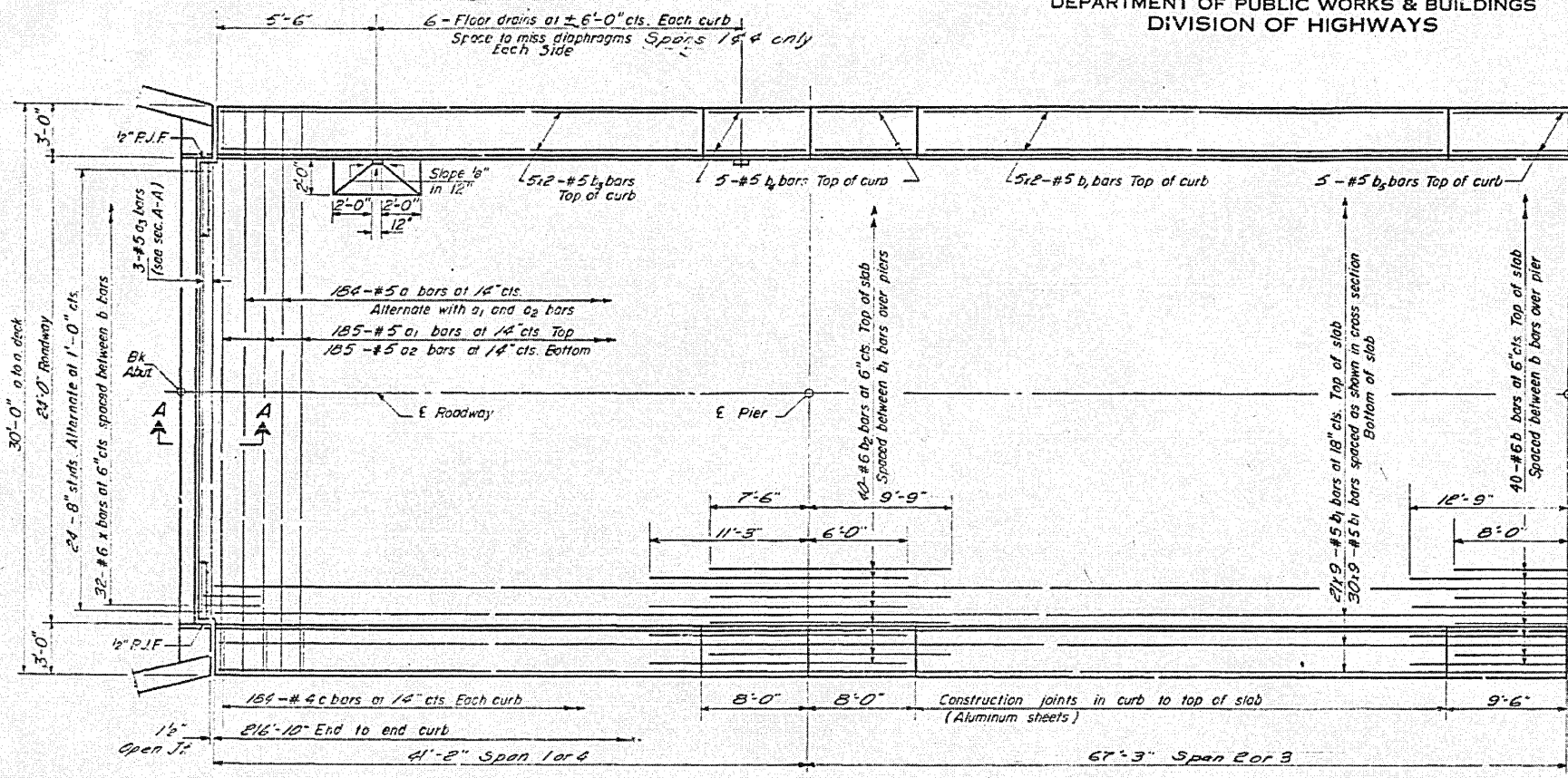
EXAMINED M.A.E. 7 1923
PASSED
APPROVED

Rev. 5-11-66 J.F.H. Changed Class X Conc. from 198.5 Cu Yds. to 208.6 Cu Yds. & Total Class X Conc. from 422.8 cu yds. to 438.9 Cu Yds.

7 of 12

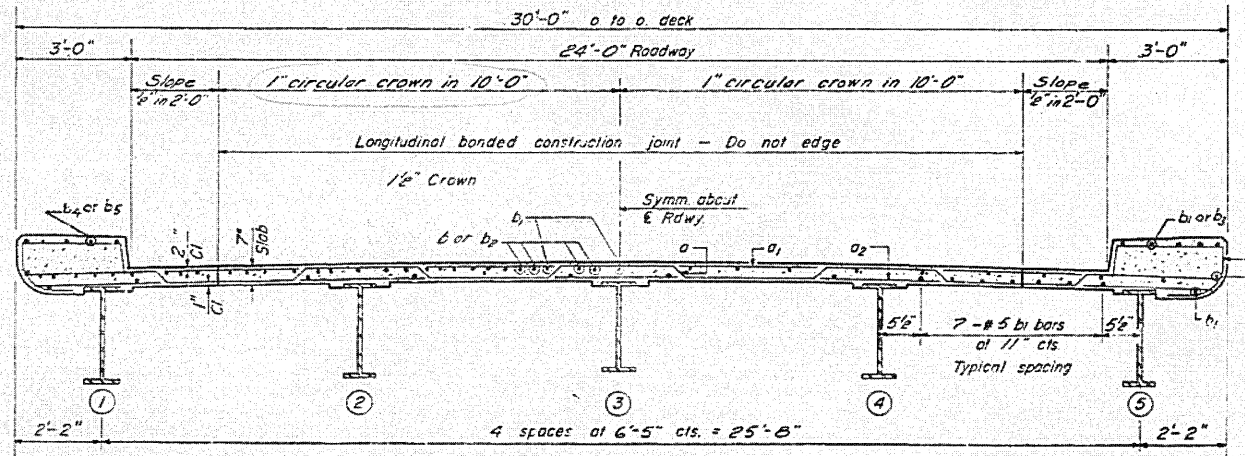
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	LENGTH	DATE	SCALE	SHEET NO.
57-15-25HB	COLES	23	8		10 SHEETS



HALF PLAN

Note
Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
Min bar laps = 20 dia.



NEAR PIER

CROSS SECTION

NEAR MIDSPAN

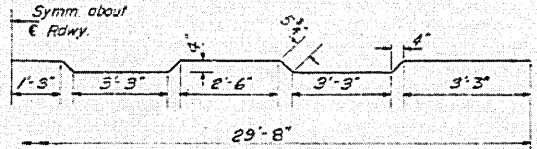
(Spans 1 & 4)

STANDARD FILLET DETAIL

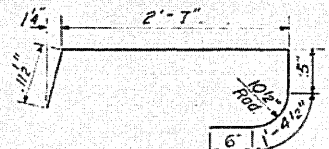
To determine "r". After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on sheet #10. These elevations subtracted from the "Grade Elevations Adjusted for Dead Load Deflections" shown on sheet #10, minus slab thickness, equals the fillet heights "r" above top of beams.

DESIGNED	J. M. J...
CHECKED	M. R. J...
DRAWN	J. M. J. / D. L. Beemer
CHECKED	N. R. F.

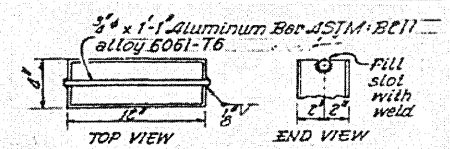
MAR 7 1963
EXAMINED
PASSED
APPROVED



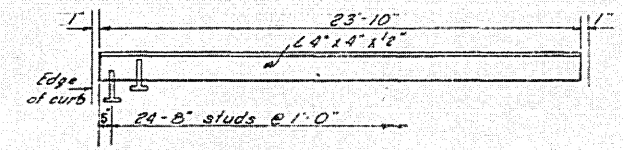
BAR a



BAR c

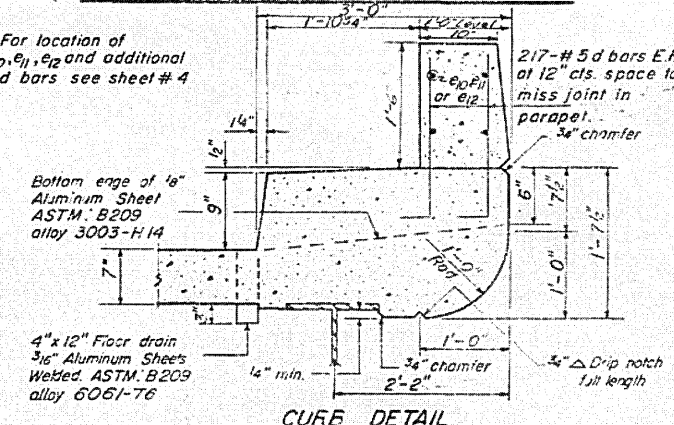


TYP. DETAIL AT DRAIN



PLAN OF EXPANSION GUARD

NOTE: For location of e10, e11, e12 and additional d bars see sheet #4



CURB DETAIL

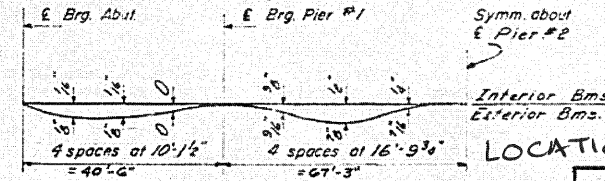
Cost of Aluminum Drains and Sheets shall be incidental to Class X Concrete

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	184	#5	30'-10"	
a1	185	#5	29'-8"	
a2	185	#5	28'-5"	
a3	6	#5	29'-6"	
b	40	#6	20'-9"	
b1	499	#5	25'-6"	
e2	80	#6	17'-3"	
e3	40	#5	17'-0"	
e4	40	#5	7'-9"	
e5	20	#5	9'-3"	
e10	32	#5	7'-9"	
e11	80	#5	16'-3"	
e12	16	#5	9'-3"	
c	368	#4	5'-10"	
d	972	#5	2'-6"	
x	64	#6	5'-0"	

Reinforcement Bars	Lbs.	41,270
Structural Steel	Lbs.	135,900
Class X Concrete	Cu Yd.	208.6

* Weight of bearing assemblies with lead plates, and anchor bolts are included as structural steel.
Est. Wt. = 6,430 Lbs.



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only)
Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet #10.

LOCATION 2: 015-0045

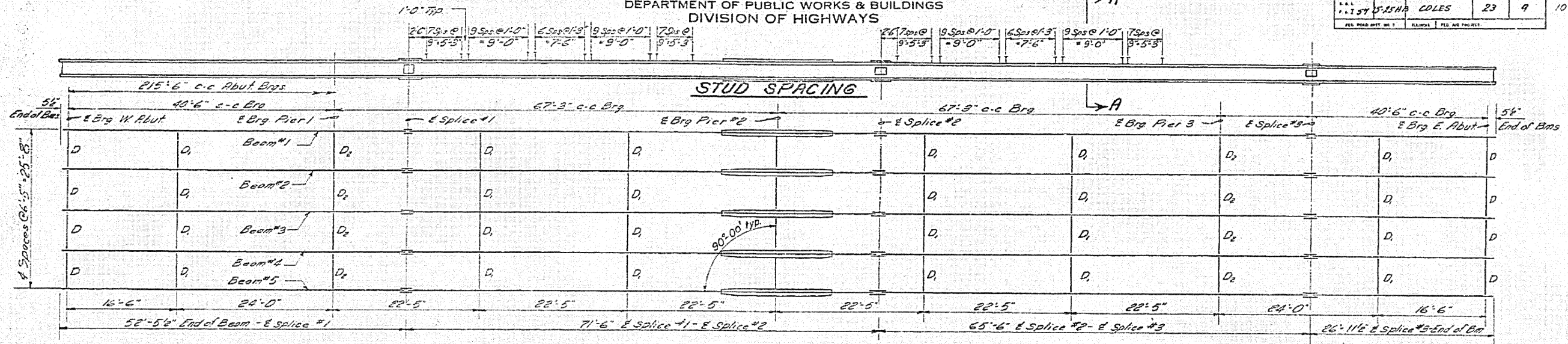
SUPERSTRUCTURE
FAI. RT. 57 - SEC. 15-25HB
COLES COUNTY
STA. 1281 + 52.63

I-5-0 10-10-62
Rev 5-11-66 J.R.H. Changed Class X Conc. from 198.5 Cu Yds. to 208.6 Cu Yds

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

DATE	REVISION	BY	TOTAL SHEETS	SHEET NO.
11-15-57	5	SHA COLES	23	9
FILE NO. 1281-52.63		ILLINOIS FILE NO. PROJECT		

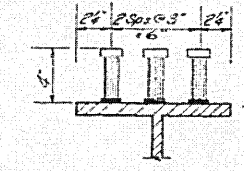
SHEET NO. 9
10 SHEETS



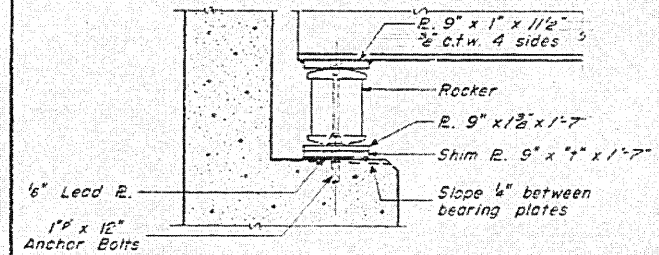
FRAMING PLAN

All Bms. are 30 WF 99
And shall conform to the Specification for
Structural Steel A.S.T.M. Designation A36

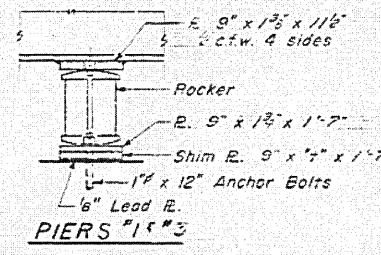
"4" Note:
Use a 3/8" shim #
under Bm #3 at
all supports.
Run all Diaphragms level



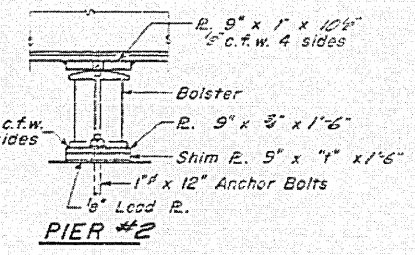
SEC. A-A
Use 3/8" studs - 25B per Bm req'd
included in quantity of Struct. Steel.



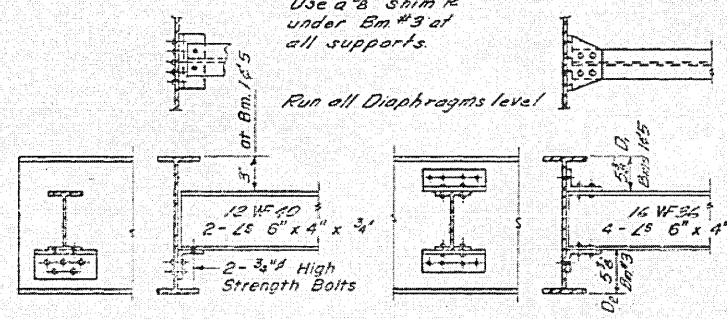
SECTION AT ABUTMENT



PIER #1

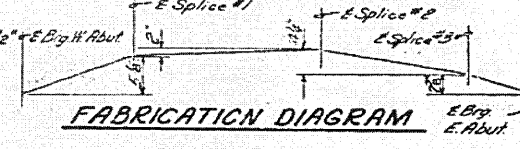


PIER #2



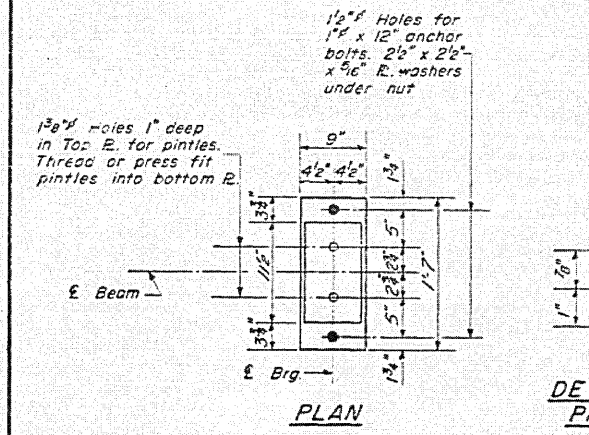
DIAPHRAGM D

DIAPHRAGM D, & D2

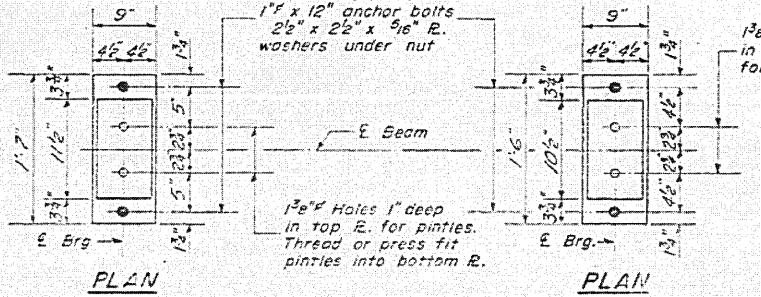


ELEVATION TOP OF WF

Location	Bm #1	Bm #2	Bm #3
E Brg W Abutment	68643	68654	68657
E Brg Pier #1	68676	68687	68690
E Splice #1	68686	68697	68700
E Brg Pier #2	68799	68710	68713
E Splice #2	68702	68713	68716
E Brg Pier #3	68675	68686	68689
E Splice #3	68667	68678	68681
E Brg E. Abutment	68643	68654	68657

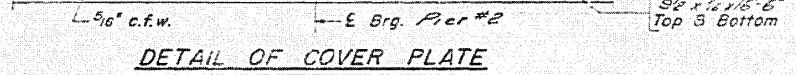


PLAN

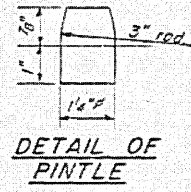


PLAN

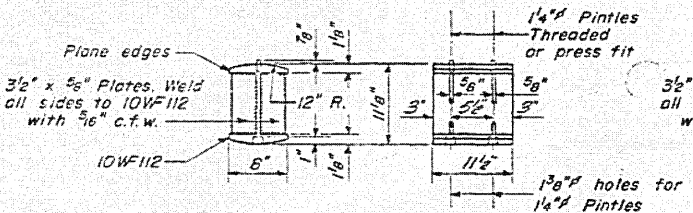
PLAN



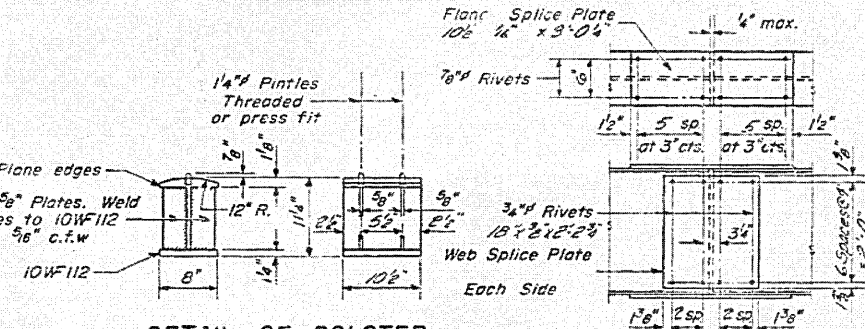
DETAIL OF COVER PLATE



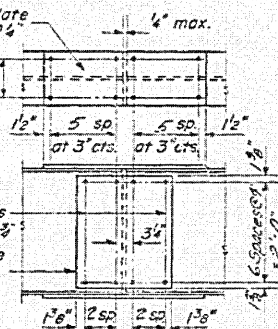
DETAIL OF PINTLE



DETAIL OF ROCKER AT PIER #1, #3 & ABUTS.



DETAIL OF BOLSTER AT PIER #2



DETAIL OF SPLICE

DESIGNED	J. M. Searol
CHECKED	N. R. F.
DRAWN	W. A. Sausaman Jr.
CHECKED	N. R. F.

EXAMINED	H. E. Baumann	MAR 7 1963
PASSED	E. J. Schmitt	
APPROVED	J. E. Smith	

LOCATION 2: 015-0045

STRUCTURAL STEEL
F.A.I. RT. 57-SEC. 15-25HB
COLES COUNTY
STA. 1281+52.63

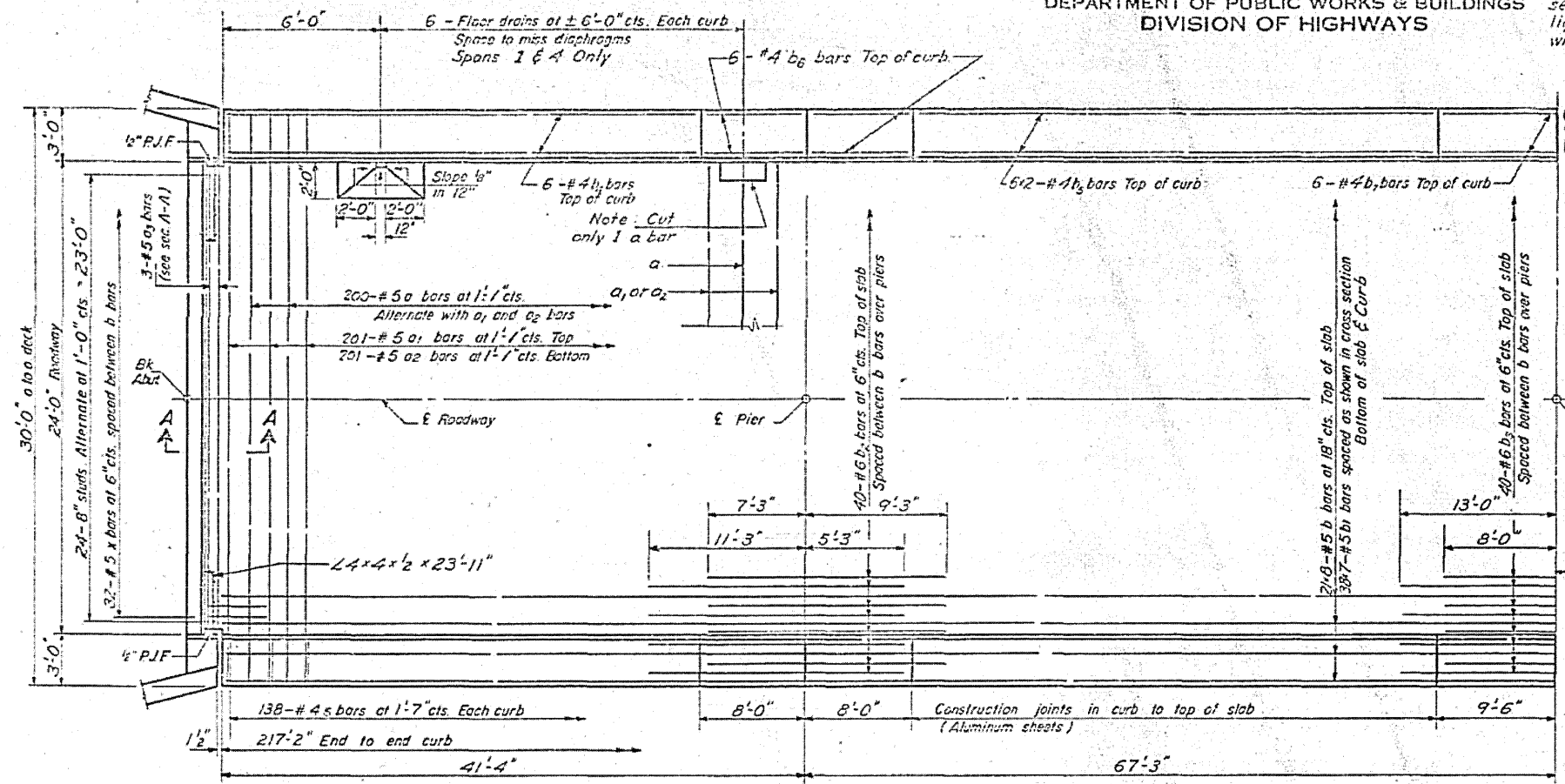
I-2-C 7-2-62
Rev 5-11-66 J.R.H. Lowered all beam elevations .04"

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

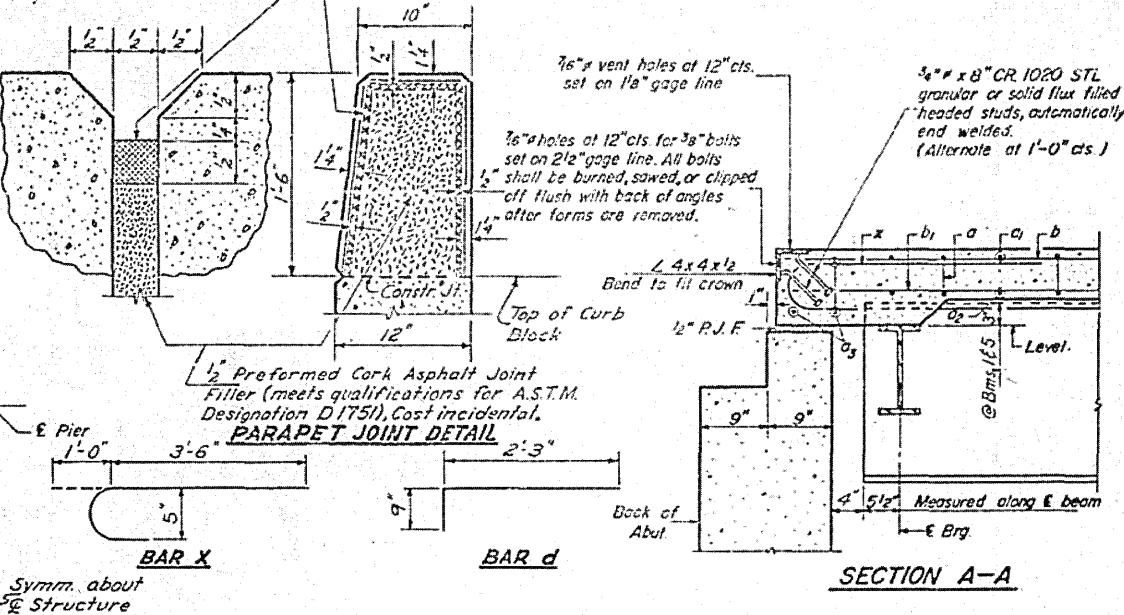
PROJECT NO.	DATE	SCALE	TOTAL SHEETS	SHEET NO.
1-57	5-21-25	COLES & DOUGLAS	21	8
PROJECT DIST. NO.	BLK.	FILE NO.		

SHEET NO. 2
9 SHEETS

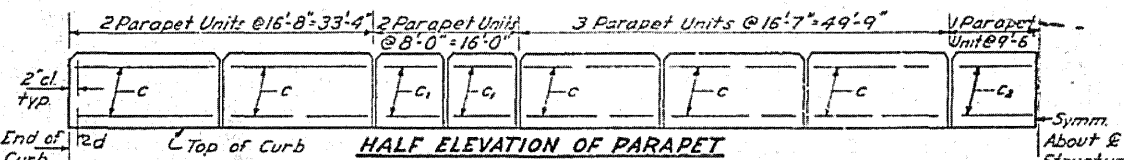
Two component non-staining gray sealing compound with polysulfide liquid polymers - gun grade with primer.



HALF PLAN
(Except Parapets)

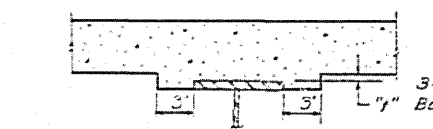


PARAPET JOINT DETAIL



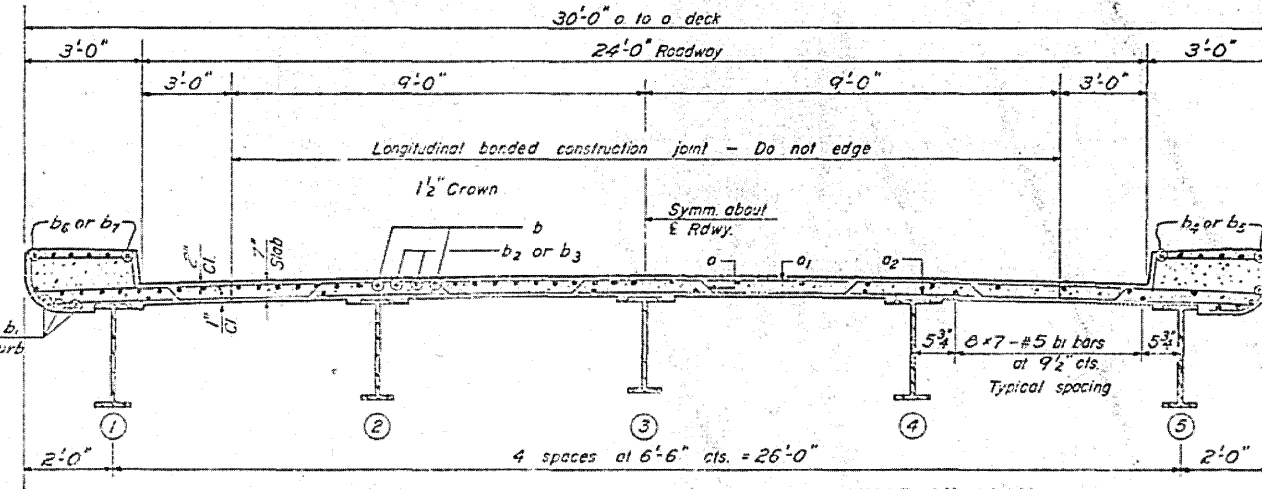
HALF ELEVATION OF PARAPET

Note:
Bars indicated thus 20x3-#5 etc indicates 20 lines of bars with 3 lengths per line.
Min bar laps = 20 dia.

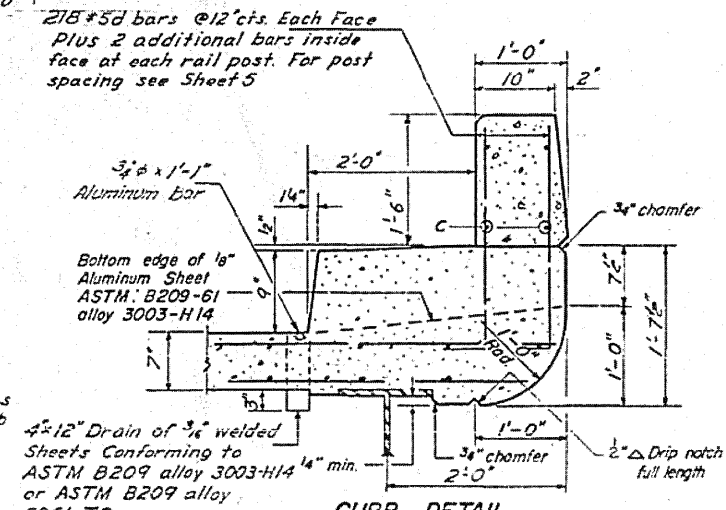


STANDARD FILLET DETAIL

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on sheet 3. These elevations subtracted from the "Grade Elevations Adjusted for Dead Load Deflections" shown on sheet 3, minus slab thickness, equals the fillet heights "t" above top of beams.



CROSS SECTION
(Except Parapets)



CURB DETAIL

Cost of Aluminum Drains and Sheets shall be incidental to Class X Concrete.

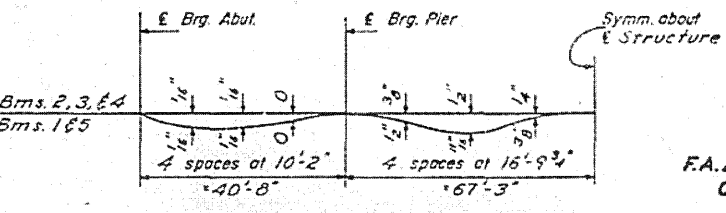
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	200	#5	30'-2"	~
a1	201	#5	29'-0"	~
a2	201	#5	28'-6"	~
a3	6	#5	23'-6"	~
d	960	#5	3'-0"	~
b	168	#5	28'-3"	~
b1	266	#5	32'-0"	~
b2	80	#6	16'-6"	~
b3	40	#6	21'-0"	~
b4	24	#4	33'-0"	~
b5	48	#4	25'-3"	~
b6	48	#4	7'-6"	~
b7	24	#4	9'-0"	~
x	64	#5	4'-6"	~
s	276	#5	5'-3"	~
c	80	#5	16'-3"	~
c1	32	#5	7'-6"	~
c2	16	#5	9'-0"	~
Reinforcement Bars				Lbs. 43,120
Structural Steel				Lbs. 135,600
Class X Concrete				Cu Yd. 406.5

* Weight of bearing assemblies with lead plates, and anchor bolts are included as structural steel.
Est. Wt. = 6,340^{lb}

DESIGNED	Rogers Beatty	EXAMINED	APRIL 5 1923 H. E. Beatty
CHECKED	Thomas A. Lewis	PASSED	H. E. Beatty
DRAWN	D. L. Beemer	APPROVED	H. E. Beatty
CHECKED	Thomas A. Lewis		

I-5-0
Revised 4/14/26 D.L.C. From 6 1/2" to 7" slab and from 1 1/2" to 2" C.I. Class X conc. from 196.2 to 206.3 cu yds.



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only)
Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet 3.

SUPERSTRUCTURE

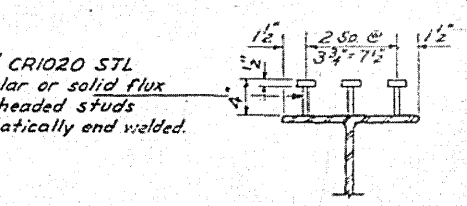
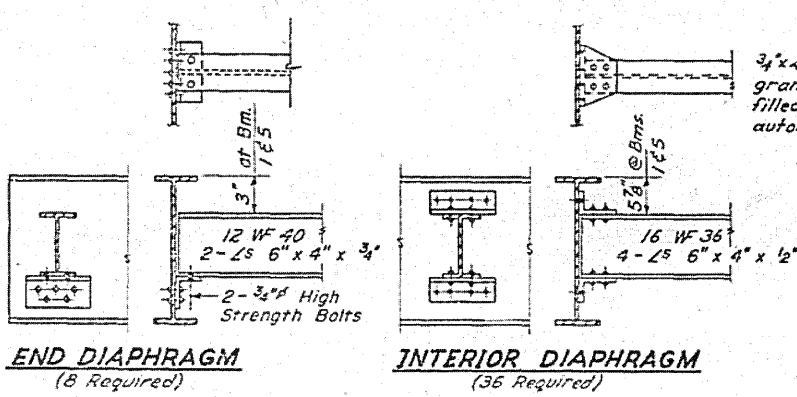
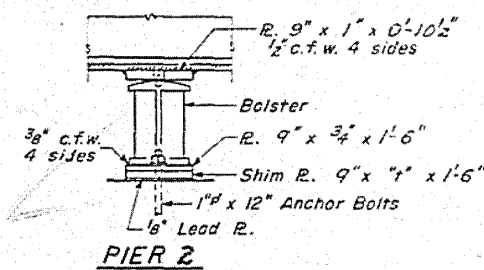
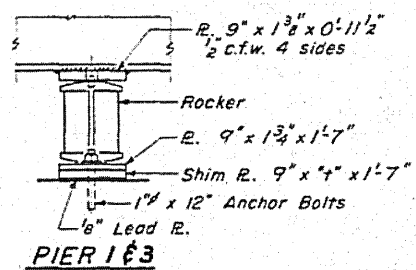
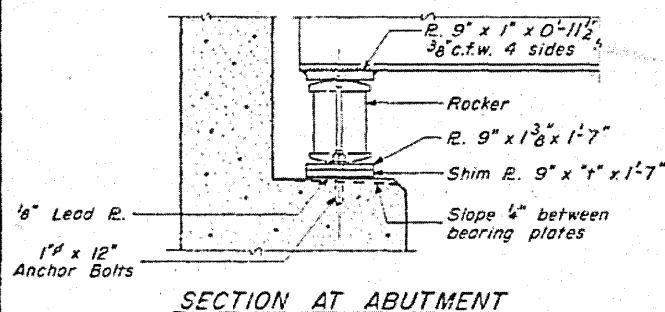
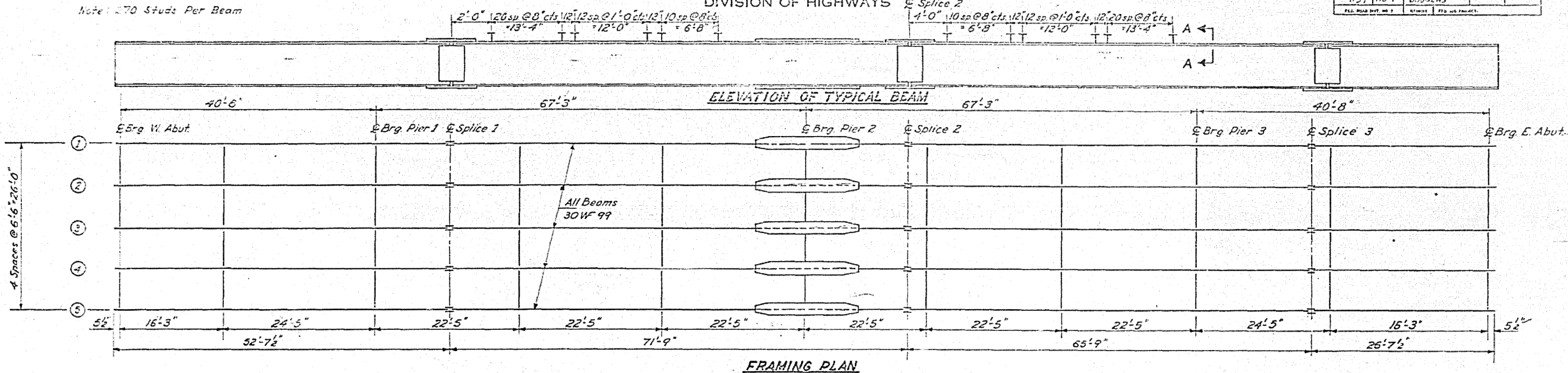
F.A.I. RT. 57 SEC. 15, 21-25HB-1
COLES-DOUGLAS COUNTY
STA. 1386+91

LOCATION 3: 015-0063

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

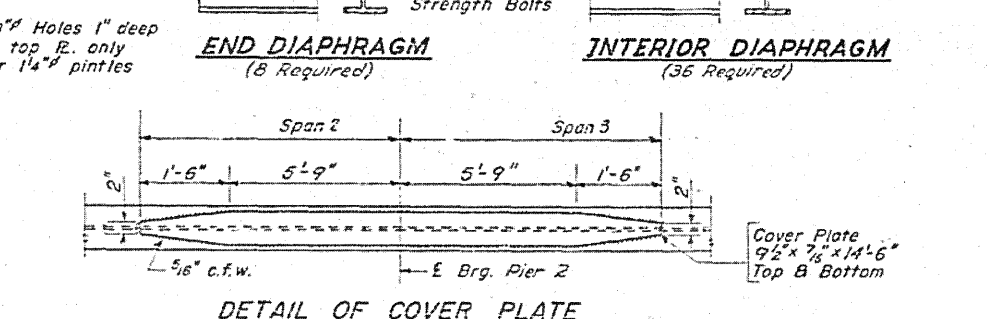
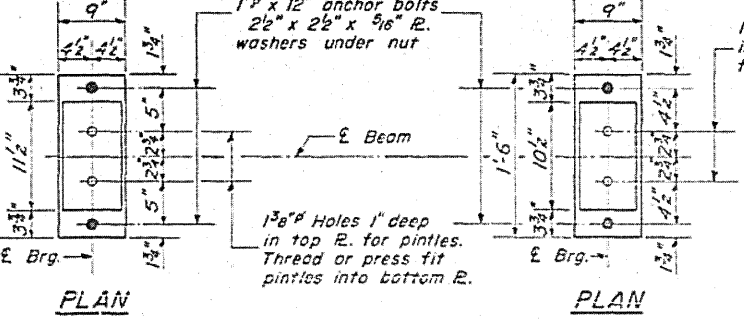
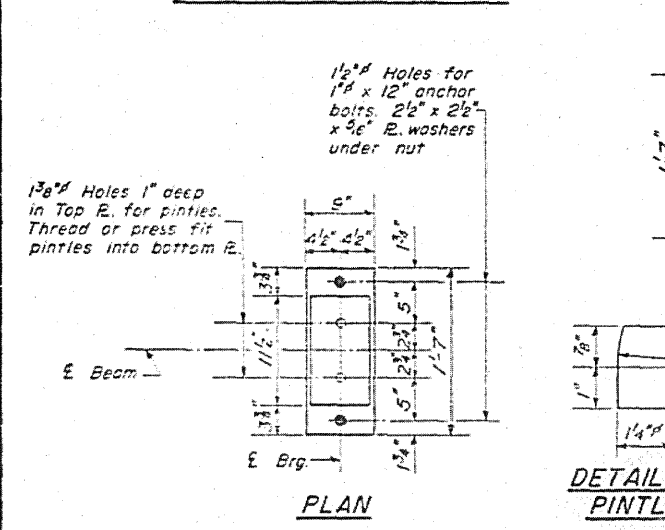
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
1-57	15, 21-25	COLES & DOUGLAS	21	10	9 SHEETS
F.L.S. 1-57		DESIGNED BY	DATE		
		THOMAS A. LEWIS	APRIL 5 1943		

Note: 70 Studs Per Beam



SECTION A-A
 1350 Studs Required
 Est Wt - 850#
 Included in quantity of Structural Steel

Note: Shim & thickness 1" equals 1/2" under Brg. 3 at all bearings.

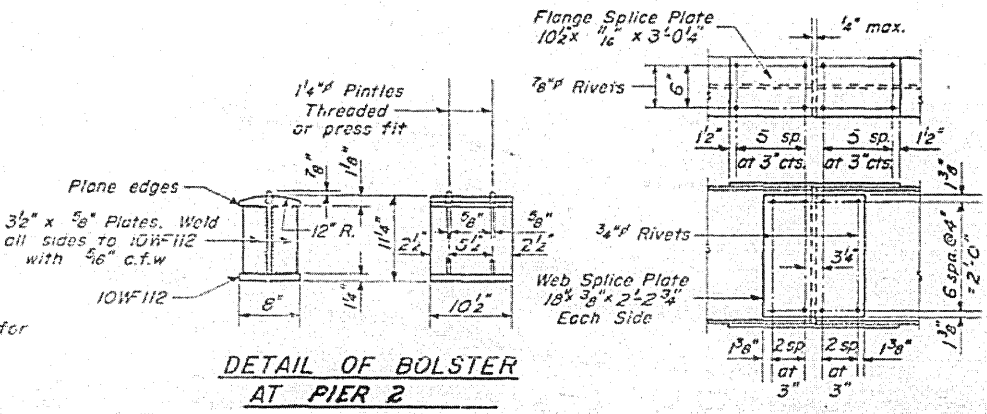
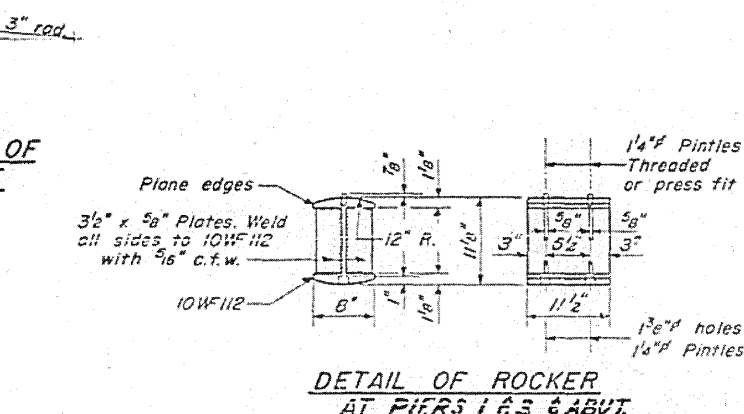


ELEVATION TOP OF W

Location	Beam 1 & 5	2 & 4	3
E Brg. W. Abut.	696.236	696.340	696.382
E Brg. Pier 1	696.549	696.653	696.675
Splice 1	696.638	696.742	696.784
E Brg. Pier 2	696.763	696.867	696.907
Splice 2	696.779	696.903	696.945
E Brg. Pier 3	696.511	696.621	696.663
Splice 3	696.437	696.541	696.503
E Brg. E. Abut.	696.236	696.340	696.382

DESIGNED *Thomas A. Lewis*
 CHECKED *W.A. Sauter*
 DRAWN *W.A. Sauter Jr.*
 EXAMINED *W.E. Brennan*
 PASSED *W.E. Brennan*
 APPROVED *W.E. Brennan*

APRIL 5 1943



STRUCTURAL STEEL
 F.A.I. RT. 57 SEC. 15, 21-25HB-1
 COLES-DOUGLAS COUNTY
 STA. 1386+91
 LOCATION 3: 015-0063