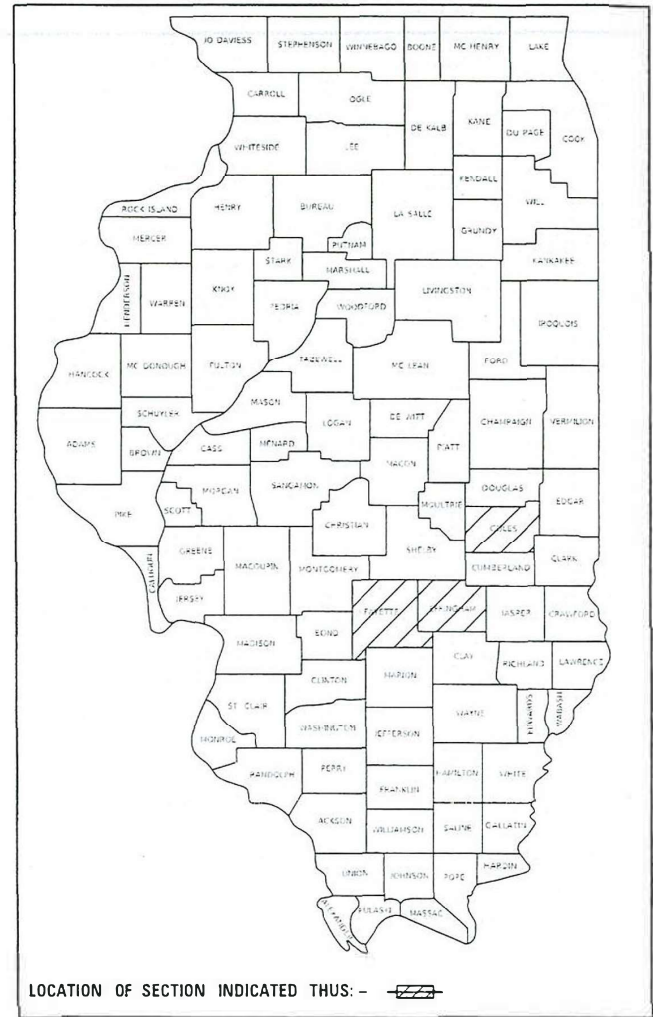


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7 BRIDGE PAINTING 2021-4		29	1

COLES, EFFINGHAM, & FAYETTE

D-97-075-21

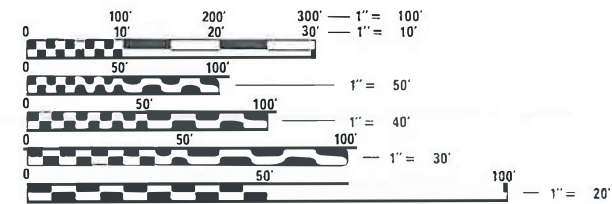
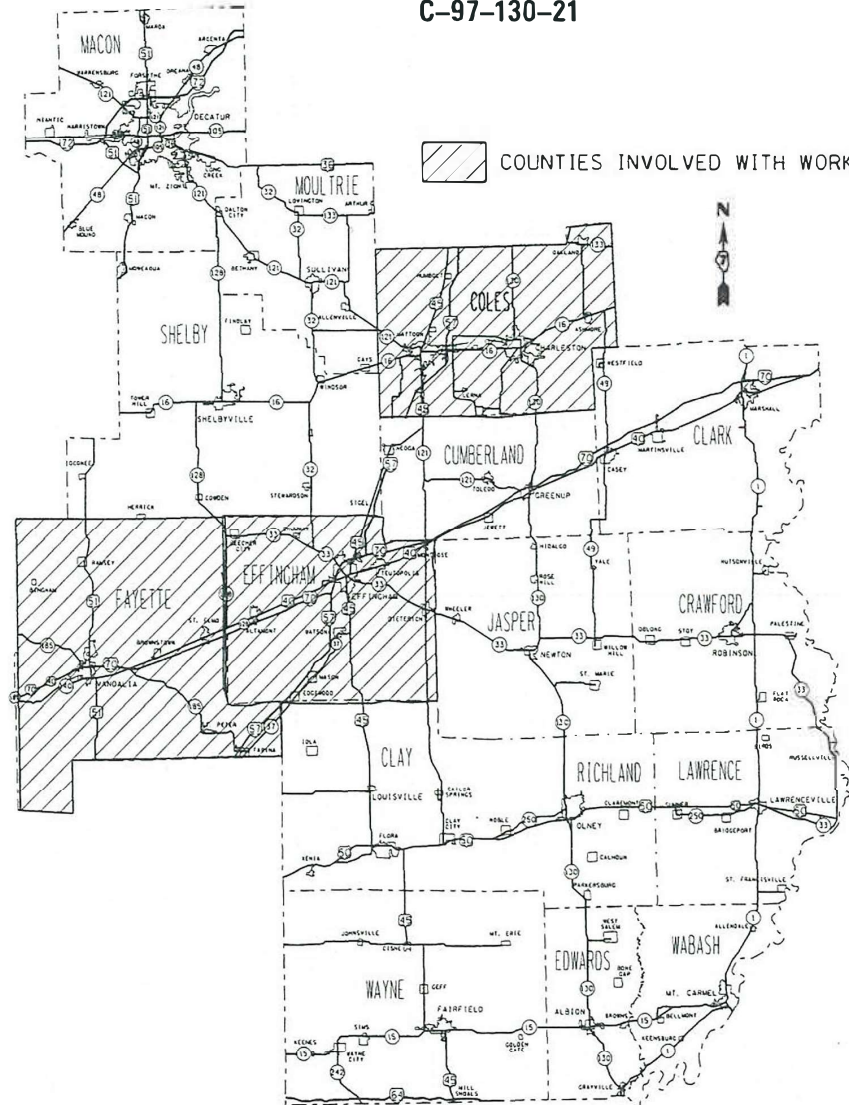


FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

F.A.I. ROUTE 57 (I-57)
SECTION D7 BRIDGE PAINTING 2021-4
PROJECT NHPP-949D(417)
BRIDGE PAINTING
VARIOUS COUNTIES
(COLES, EFFINGHAM, & FAYETTE COUNTIES)

C-97-130-21



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 EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER TOM RONAN
PROJECT MANAGER TOM RONAN
PHONE NUMBER (217)-342-8320
CONTRACT NO. 74A44

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED January 11 2021
Jeffrey P. [Signature]
REGIONAL ENGINEER

January 29, 2021
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

January 29, 2021
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS & GENERAL NOTES
3-4	LOCATION DESCRIPTIONS
5-6	SUMMARY OF QUANTITIES
7	TRAFFIC CONTROL SCHEDULE
8	LOCATION MAPS
9-29	EXISTING STURCTURE PLANS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 29:

000001-08	STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTI-LANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTI-LANE, MORE THAN 15' AWAY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS
701400-10	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY 45 MPH
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER

GENERAL NOTES

THE PROPOSED PROJECT IS LOCATED AT 4 LOCATIONS IN EFFINGHAM COUNTY, 1 LOCATION IN FAYETTE COUNTY, AND 3 LOCATIONS IN COLES COUNTY IN DISTRICT 7.

THE WORK INCLUDED IN THIS SECTION CONSISTS OF CLEANING AND PAINTING 8 BRIDGES AS SPECIFIED IN THE PLANS AND SPECIAL PROVISIONS.

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

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

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

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

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*COLES, EFFINGHAM, FAYETTE

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LOCATION #1

BRIDGE # 1
 ROUTE: FAI 57
 MARKED: I-57
 SECTION: 25-7HB-2
 STATION: 4889+51.30
 STRUCTURE NUMBER: 025-0060

TYPE OF BRIDGE: WIDE Flange I-Beams - 4 Spans (5 Beams)
 LOCATION: 2 Miles South of the Southwest Tri-level
 FEATURE CARRIED/SPANNED: TR-57 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, diaphragms, and bearings, 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

BRIDGE # 2
 ROUTE: FAI 57 NB
 MARKED: I-57
 SECTION: 25-6HVB-1
 STATION: 4269+39.34
 STRUCTURE NUMBER: 025-0067

TYPE OF BRIDGE: WIDE Flange I-Beams - 4 Spans (7 Beams)
 LOCATION: 1 Mile North of the Clay County Line
 FEATURE CARRIED/SPANNED: I-57 NB over CH-27 & an Abandoned Railroad

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, within 5' (measured along the beam) of the abutments and any expansion joints at piers shall be cleaned by SSPC-SP10- Near White Metal Blast Cleaning. The entire outside and bottom of the bottom flange of both fascia beams, for the entire length of the beams, 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

BRIDGE # 3
 ROUTE: FAI 57 SB
 MARKED: I-57
 SECTION: 25-6HVB-1
 STATION: 4269+39.34
 STRUCTURE NUMBER: 025-0068

TYPE OF BRIDGE: WIDE Flange I-Beams - 4 Spans (7 Beams)
 LOCATION: 1 Mile North of the Clay County Line
 FEATURE CARRIED/SPANNED: I-57 SB over CH-27 & an Abandoned Railroad

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, within 5' (measured along the beam) of the abutments and any expansion joints at piers shall be cleaned by SSPC-SP10- Near White Metal Blast Cleaning. The entire outside and bottom of the bottom flange of both fascia beams, for the entire length of the beams, 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 #4

BRIDGE # 4
 ROUTE: FAI 57
 MARKED: I-57
 SECTION: 25-6HB-4
 STATION: 4481+40
 STRUCTURE NUMBER: 025-0073

TYPE OF BRIDGE: WIDE Flange I-Beams - 4 Spans (5 Beams)
 LOCATION: 2.5 Miles South of the Watson Interchange
 FEATURE CARRIED/SPANNED: CH-24 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, diaphragms, and bearings, 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.

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*COLES, EFFINGHAM, FAYETTE

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	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/12/2021	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION DESCRIPTIONS

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7 BRIDGE PAINTING 2021-4	*	28	3
CONTRACT NO. 74A44				
			ILLINOIS FED. AID PROJECT	

LOCATION #5
 BRIDGE # 5
 ROUTE: FAI 57
 MARKED: I-57
 SECTION: 26-2HB
 STATION: 3089+00
 STRUCTURE NUMBER: 026-0081

TYPE OF BRIDGE: Wide Flange I Beams-4 Spans (4 Beams)
 LOCATION: 2.5 Miles North of the Farina Interchange
 FEATURE CARRIED/SPANNED: TR 541 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 #6
 BRIDGE # 6
 ROUTE: FAI 57
 MARKED: I-57
 SECTION: 15-HB-1
 STATION: 558+87.97
 STRUCTURE NUMBER: 015-0029

TYPE OF BRIDGE: Wide Flange I Beams-4 Spans (5 Beams)
 LOCATION: 1 Mile East of US Route 45
 FEATURE CARRIED/SPANNED: TR 223 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 #7
 BRIDGE # 7
 ROUTE: FAI 57
 MARKED: I-57
 SECTION: 15-22HB-2
 STATION: 608+50
 STRUCTURE NUMBER: 015-0047

TYPE OF BRIDGE: Wide Flange I Beams-4 Spans (5 Beams)
 LOCATION: 2.0 Miles East of US Route 45
 FEATURE CARRIED/SPANNED: TR 70 A 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. Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". This structure contains lead paint.

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

No air monitors will be required at this location.

LOCATION #8
 BRIDGE # 8
 ROUTE: FAI 57
 MARKED: I-57
 SECTION: 15-21HB-1
 STATION: 427+39.45
 STRUCTURE NUMBER: 015-0050

TYPE OF BRIDGES: WIDE Flange I Beams-4 Spans (5 Beams)
 LOCATION: 1.5 Miles Southwest of US Route 45
 FEATURE CARRIED/SPANNED: TR 245 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, diaphragms, and bearings, shall be cleaned by SSPC-SP10- Near White Metal Blast Cleaning. This structure contains lead paint.

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

Three air monitors will be required at this location.

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*COLES, EFFINGHAM, FAYETTE

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PLOT DATE = 1/12/2021	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

LOCATION DESCRIPTIONS

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7 BRIDGE PAINTING 2021-4	*	28	4
CONTRACT NO. 74A44				
ILLINOIS FED. AID PROJECT				

90% FED
10% STATE

90% FED
10% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0047 EFFINGHAM	0047 FAYETTE	0047 COLES
67100100	MOBILIZATION	L SUM	1	0.5	0.12	0.38
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD	EACH	12	4	2	6
	701402					
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	1		
	701201					
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	0.33	0.17	0.5
	701401					
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1650	550	275	825
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	4950	1650	825	2475
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	6	2	1	3
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	18	6	3	9
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	180	60	30	90
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0047 EFFINGHAM	0047 FAYETTE	0047 COLES
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
Z0007108	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 8	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		

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*COLES, EFFINGHAM, FAYETTE

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PLOT DATE = 1/12/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF
QUANTITIES**

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7 BRIDGE PAINTING 2021-4	*	29	5
			CONTRACT NO. 74A44	
		ILLINOIS	FED. AID PROJECT	

90% FED
10% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
				0047 EFFINGHAM	0047 FAYETTE	0047 COLES
CODE NO	ITEM	UNIT				
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Z0010505	CLEANING AND PAINTING STEEL BRIDGE NO. 5	L SUM	1		1	
Z0010506	CLEANING AND PAINTING STEEL BRIDGE NO. 6	L SUM	1			1
Z0010507	CLEANING AND PAINTING STEEL BRIDGE NO. 7	L SUM	1			1
Z0010508	CLEANING AND PAINTING STEEL BRIDGE NO. 8	L SUM	1			1

*COLES, EFFINGHAM, FAYETTE

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES		SCALE:	SHEET 2	OF 2	SHEETS	STA.	TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7 BRIDGE PAINTING 2021-4	*	29	6
			CONTRACT NO. 74A44	
		ILLINOIS FED. AID PROJECT		

TRAFFIC CONTROL SCHEDULE

TRAFFIC CONTROL SCHEDULE	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	PINNING TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201
STRUCTURE NUMBER	FOOT	FOOT	EACH	EACH	EACH	EACH	L SUM
EFFINGHAM COUNTY							
025-0060	275	825	30	1	3	2	
025-0067							0.5
025-0068							0.5
025-0073	275	825	30	1	3	2	
EFFINGHAM CO. TOTALS	550	1650	60	2	6	4	1
FAYETTE COUNTY							
026-0081	275	825	30	1	3	2	
FAYETTE CO. TOTALS	275	825	30	1	3	2	
COLES COUNTY							
015-0029	275	825	30	1	3	2	
015-0047	275	825	30	1	3	2	
015-0050	275	825	30	1	3	2	
COLES CO. TOTALS	825	2475	90	3	9	6	
PROJECT TOTALS	1650	4950	180	6	18	12	1

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*COLES, EFFINGHAM, FAYETTE

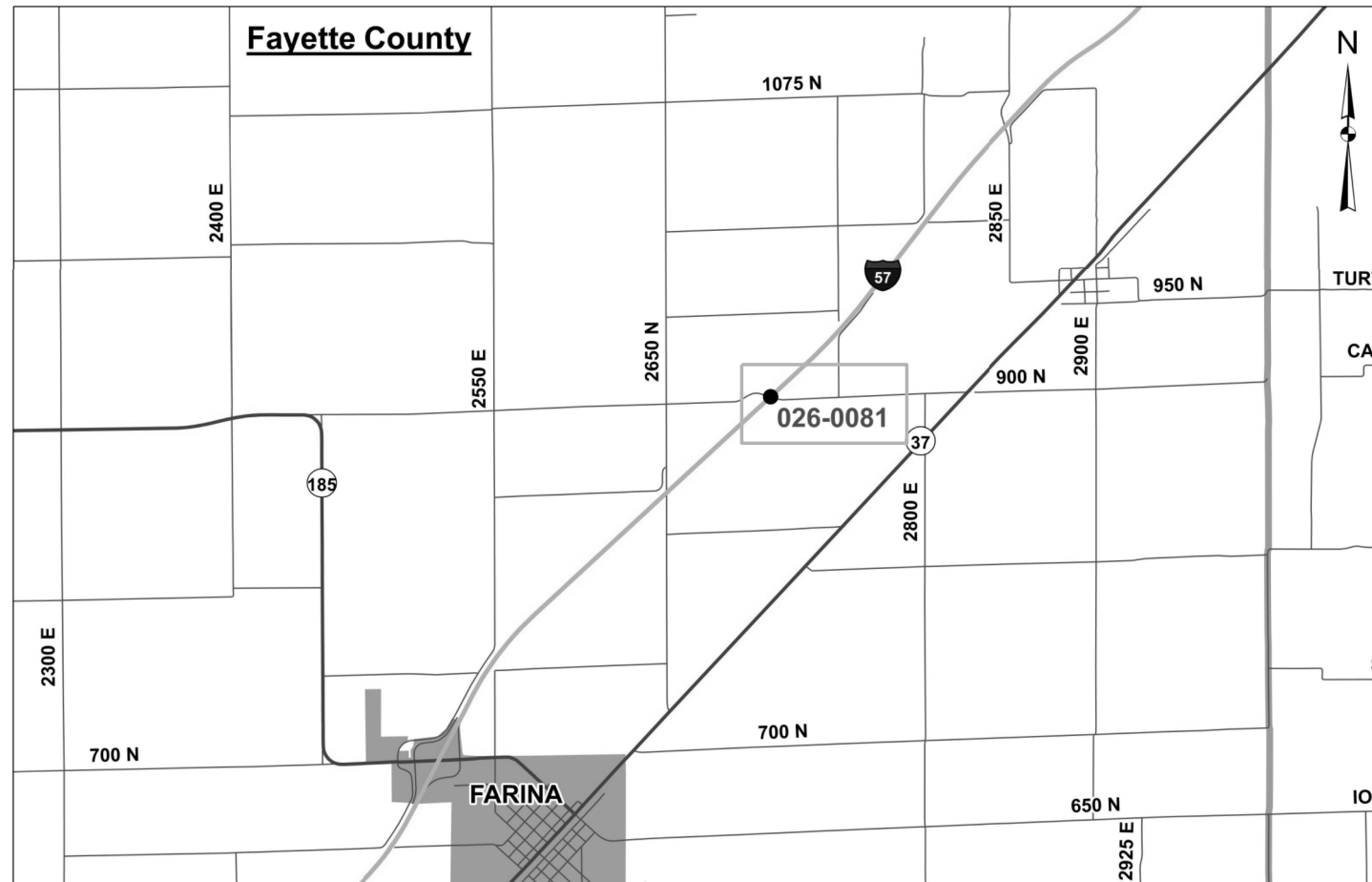
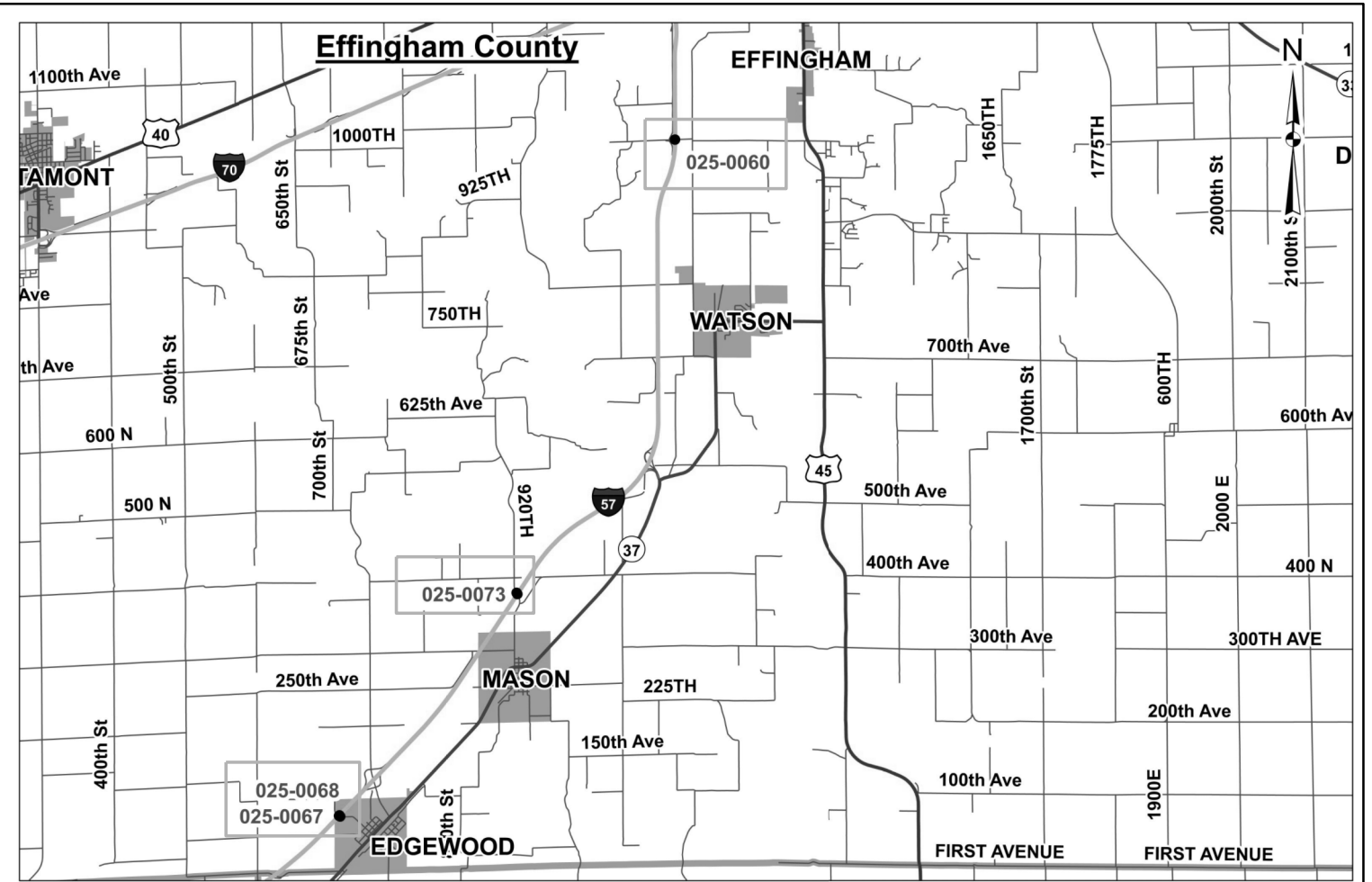
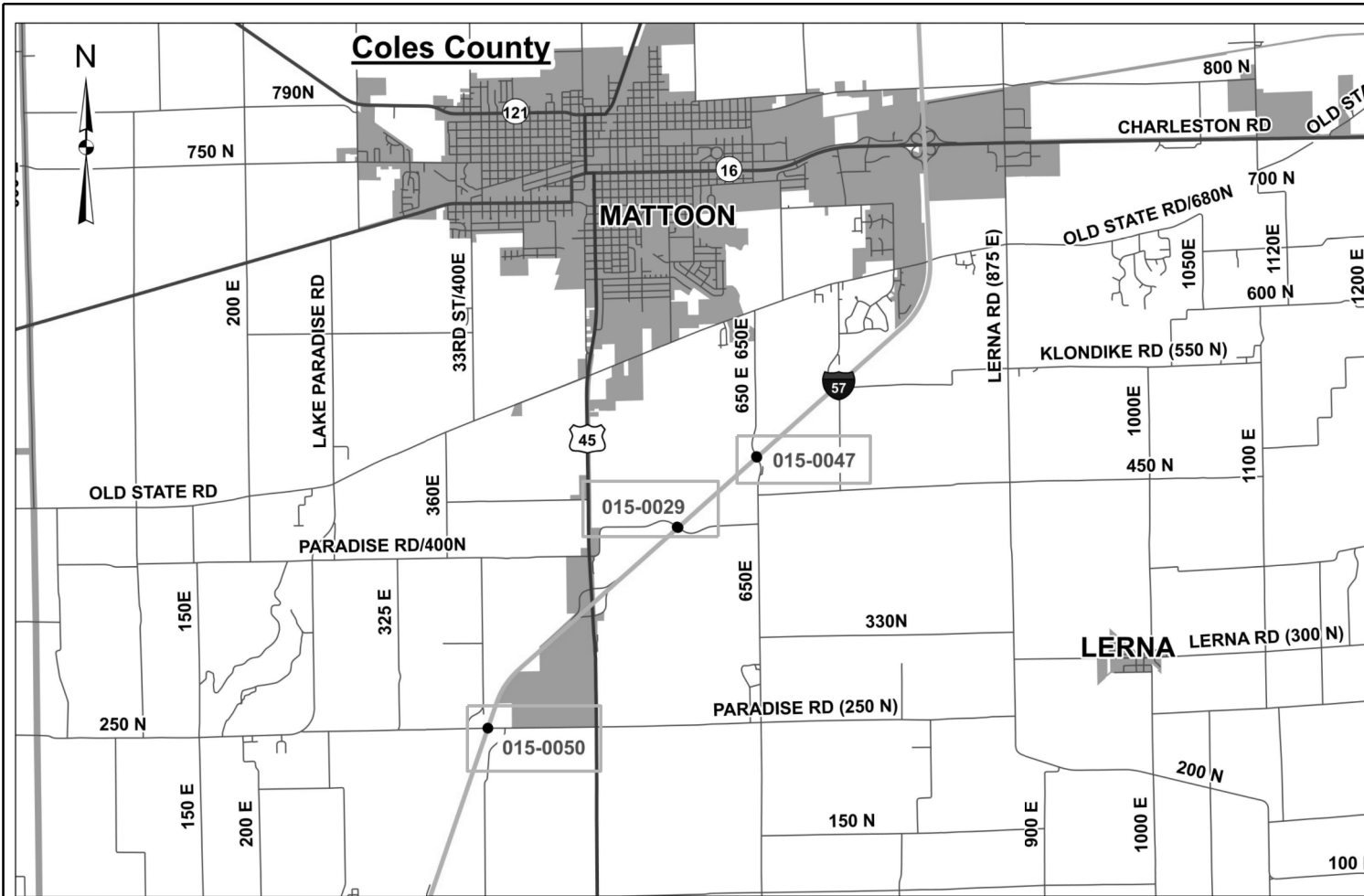
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL
 SCHEDULE

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

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7 BRIDGE PAINTING 2021-4	*	29	7
				CONTRACT NO. 74A44
		ILLINOIS	FED. AID PROJECT	



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PLOT DATE = 1/12/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

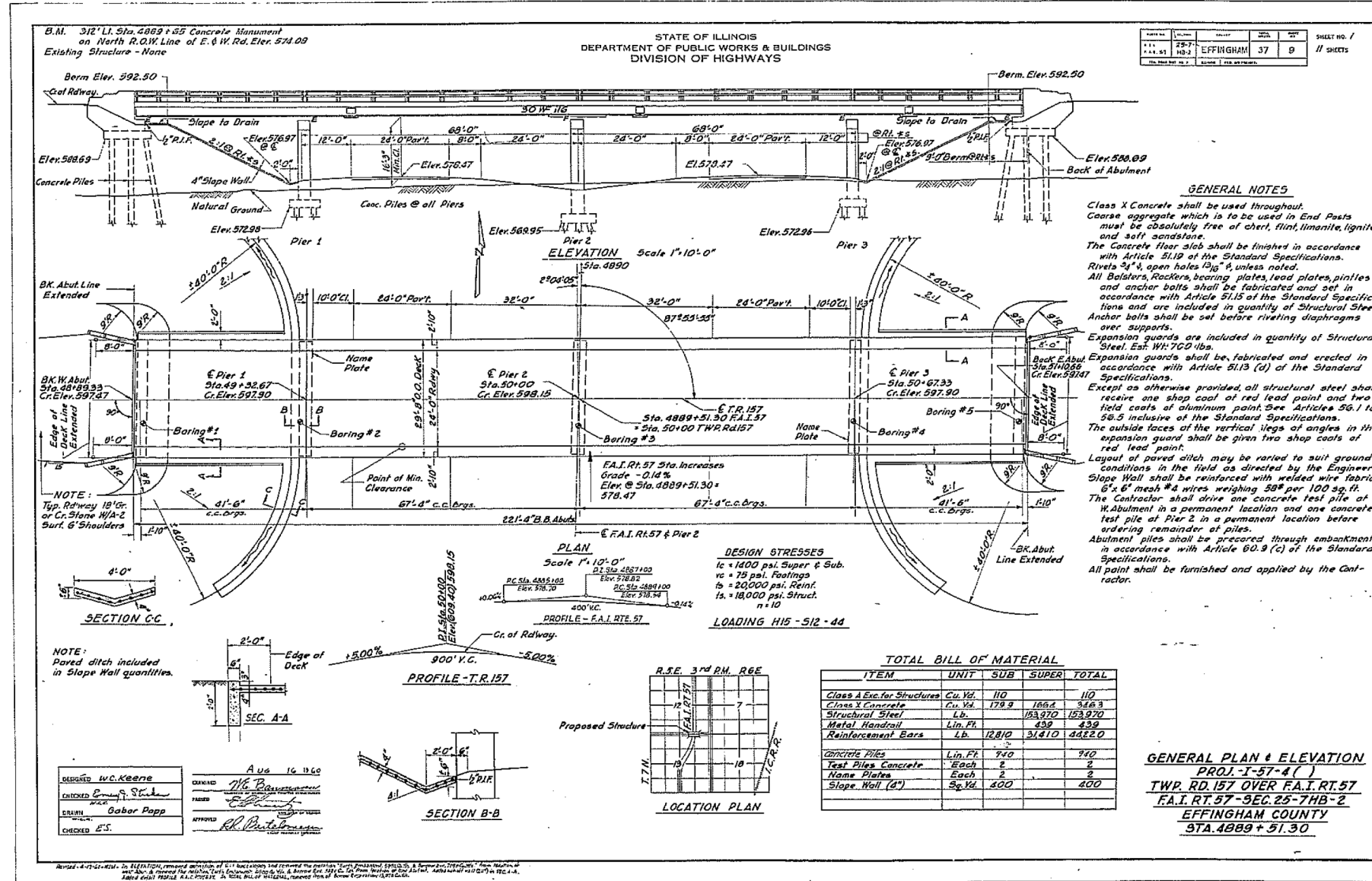
LOCATION MAPS

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

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7 BRIDGE PAINTING 2021-4	*	29	8
CONTRACT NO. 74A44				
ILLINOIS FED. AID PROJECT				

*COLES, EFFINGHAM, FAYETTE

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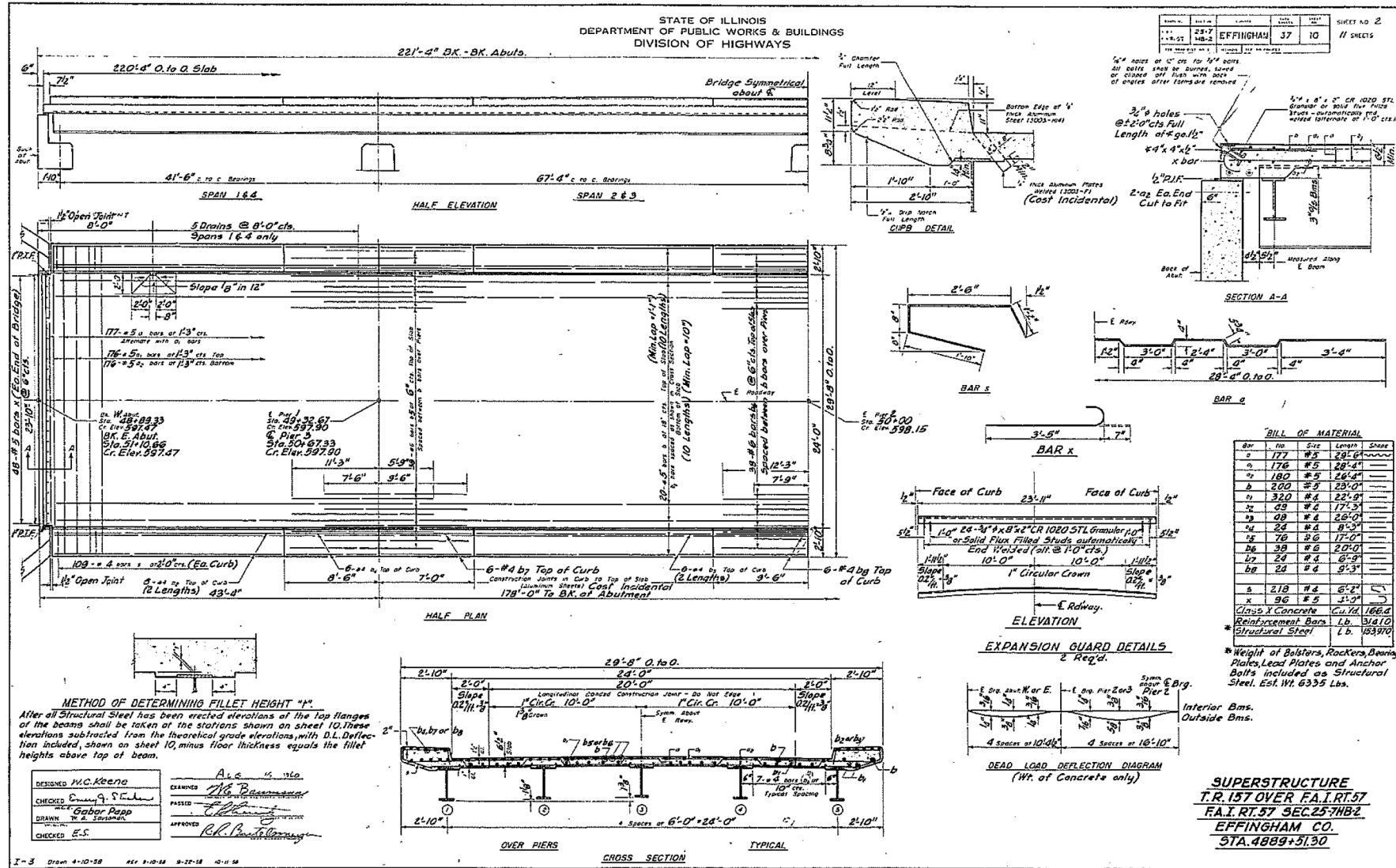
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING STRUCTURE PLANS
 025-0060**

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7 BRIDGE PAINTING 2021-4		29	9
CONTRACT NO. 74A44				
ILLINOIS FED. AID PROJECT				

*COLES, EFFINGHAM, FAYETTE



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

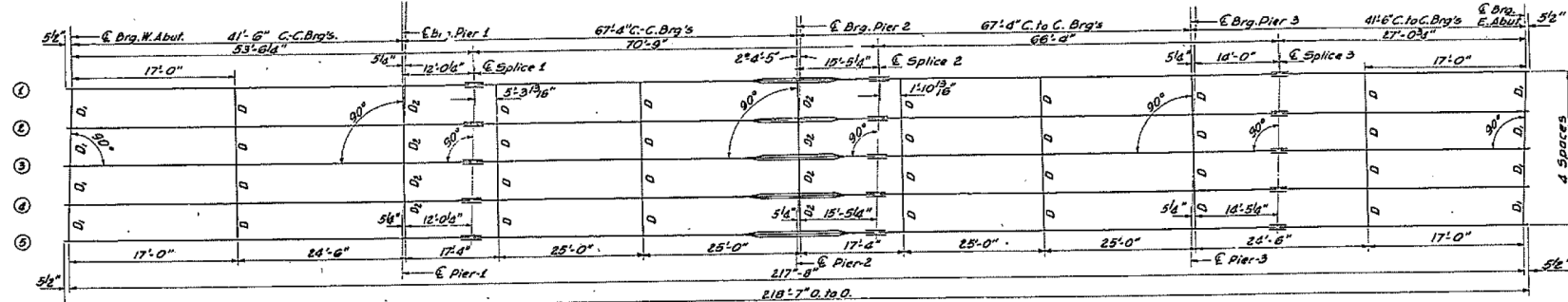
EXISTING STRUCTURE PLANS			
025-0060			
SCALE:	SHEET 2	OF 3 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7 BRIDGE PAINTING 2021-4	*	29	10
CONTRACT NO. 74A44				
ILLINOIS FED. AID PROJECT				

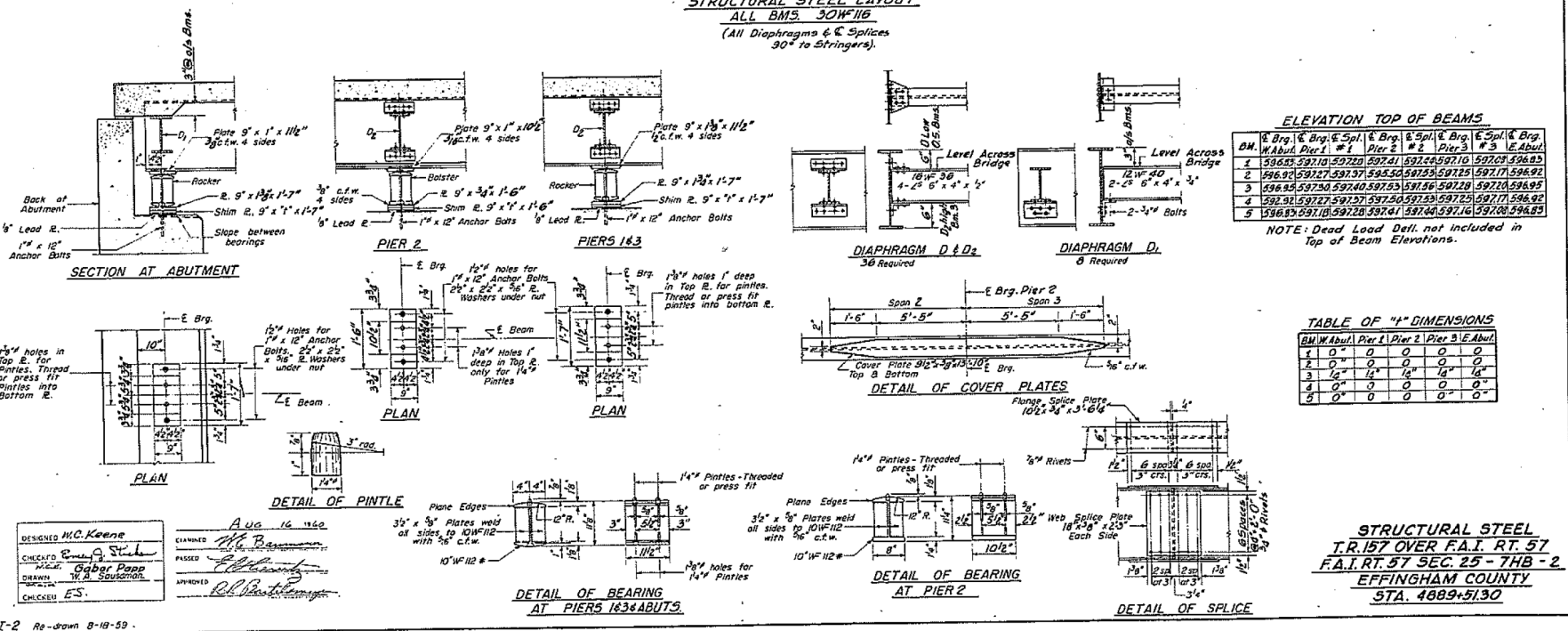
*COLES, EFFINGHAM, FAYETTE

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

PROJECT NO.	25-7	SHEET NO.	37	TOTAL SHEETS	11
PROJECT NAME	EFFINGHAM				



STRUCTURAL STEEL LAYOUT
ALL BMS 30W116
(All Diaphragms & Splices
90° to Stringers).



ELEVATION TOP OF BEAMS

BM	W. Abut. Pier 1 #1	W. Abut. Pier 1 #2	Pier 2 #1	Pier 2 #2	Pier 3 #1	Pier 3 #2	E. Abut.
1	596.85	597.10	597.20	597.41	597.44	597.10	597.09
2	596.97	597.27	597.37	597.50	597.53	597.15	597.17
3	596.85	597.30	597.40	597.53	597.56	597.20	596.95
4	596.81	597.27	597.37	597.50	597.53	597.25	597.17
5	596.83	597.18	597.28	597.41	597.44	597.16	597.08

NOTE: Dead Load Defl. not included in Top of Beam Elevations.

TABLE OF "I" DIMENSIONS

BM	W. Abut.	Pier 1	Pier 2	Pier 3	E. Abut.
1	0"	0"	0"	0"	0"
2	0"	0"	0"	0"	0"
3	1/2"	1/2"	1/2"	1/2"	1/2"
4	0"	0"	0"	0"	0"
5	0"	0"	0"	0"	0"

DESIGNED: M.C. Keene
CHECKED: [Signature]
DRAWN: Gabor Papp
DATE: AUG 16 1960

STRUCTURAL STEEL
T.R. 157 OVER F.A.I. RT. 57
F.A.I. RT. 57 SEC. 25 - 7HB - 2
EFFINGHAM COUNTY
STA. 4889+51.30



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

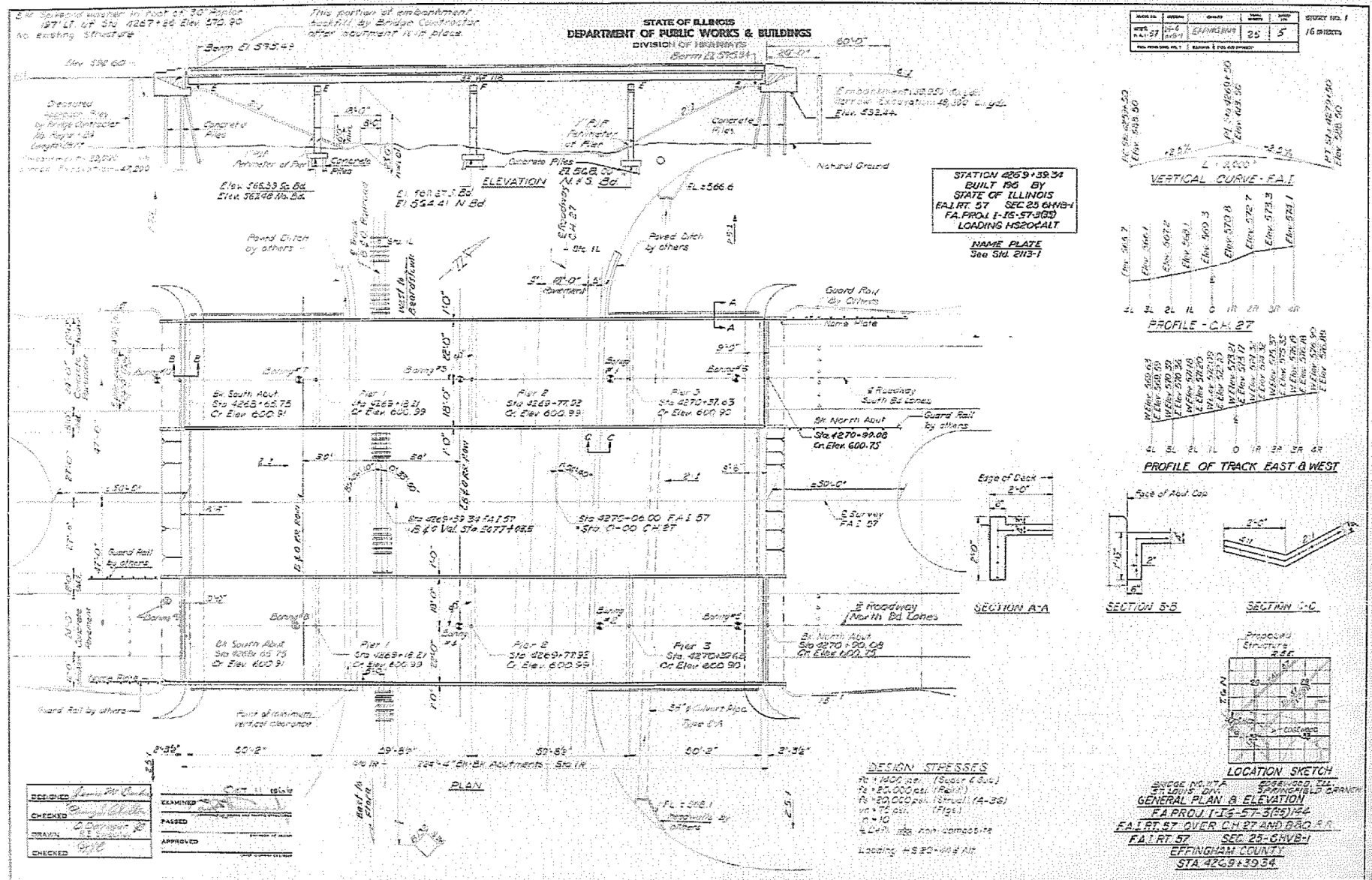
EXISTING STRUCTURE PLANS
025-0060

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7 BRIDGE PAINTING 2021-4		29	11
CONTRACT NO. 74A44				
ILLINOIS FED. AID PROJECT				

*COLES, EFFINGHAM, FAYETTE

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 PROJECT: 74444
 OFFICE: Effingham
 DRAWING: 025-0067, 025-0068



DESIGNED	EXAMINED
CHECKED	PAUSED
DRAWN	APPROVED
CHECKED	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING STRUCTURE PLANS
 025-0067, 025-0068**

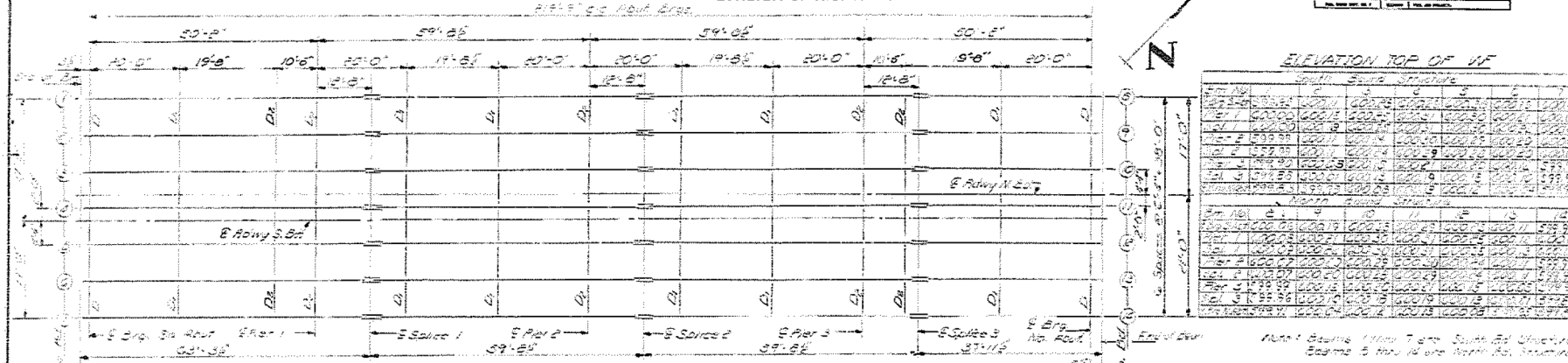
SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7 BRIDGE PAINTING 2021-4	*	29	12
CONTRACT NO. 74A44				
ILLINOIS FED. AID PROJECT				

*COLES, EFFINGHAM, FAYETTE

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

DATE	BY	CHKD	APP'D	SHEET NO.
12-27-57	EFFINGHAM	25	7	15 SHEETS



ELEVATION TOP OF WF

Beam No.	South Ed.	North Ed.
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0

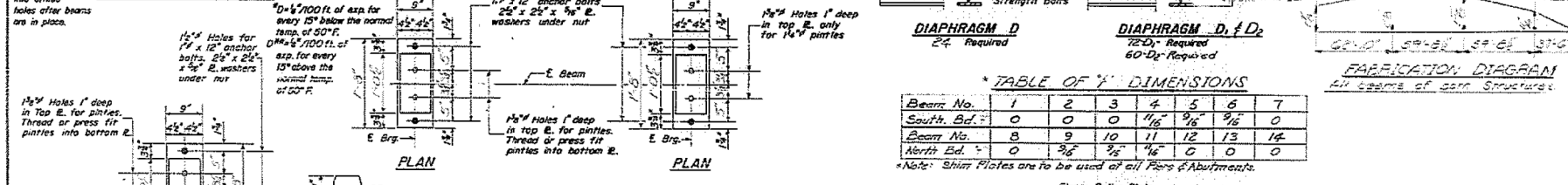
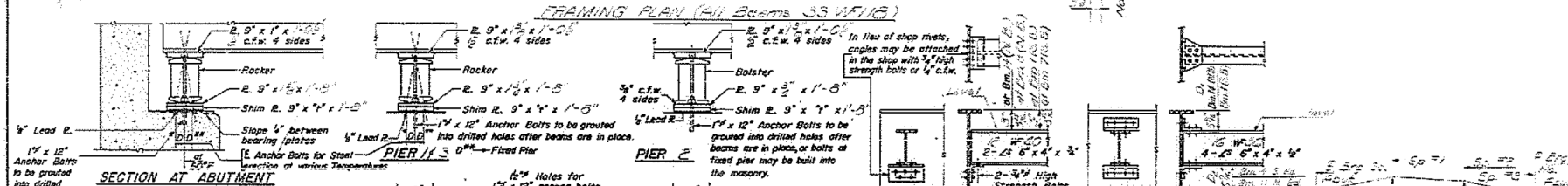
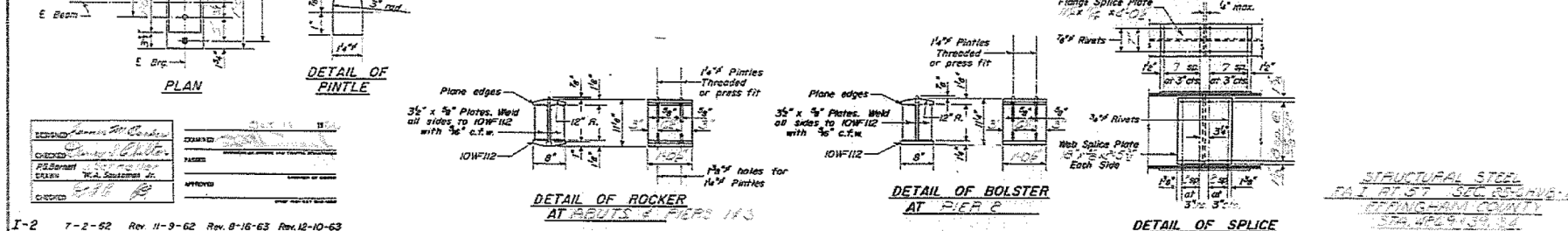


TABLE OF 'X' DIMENSIONS

Beam No.	1	2	3	4	5	6	7
South Ed.	0	0	0	1/16	9/16	9/16	0
Beam No.	8	9	10	11	12	13	14
North Ed.	0	3/8	3/8	1/8	0	0	0

*Note: Shim Plates are to be used at all Piers & Abutments.



I-2 7-2-52 Rev. 11-9-62 Rev. 8-16-63 Rev. 12-10-63

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
025-0067, 025-0068

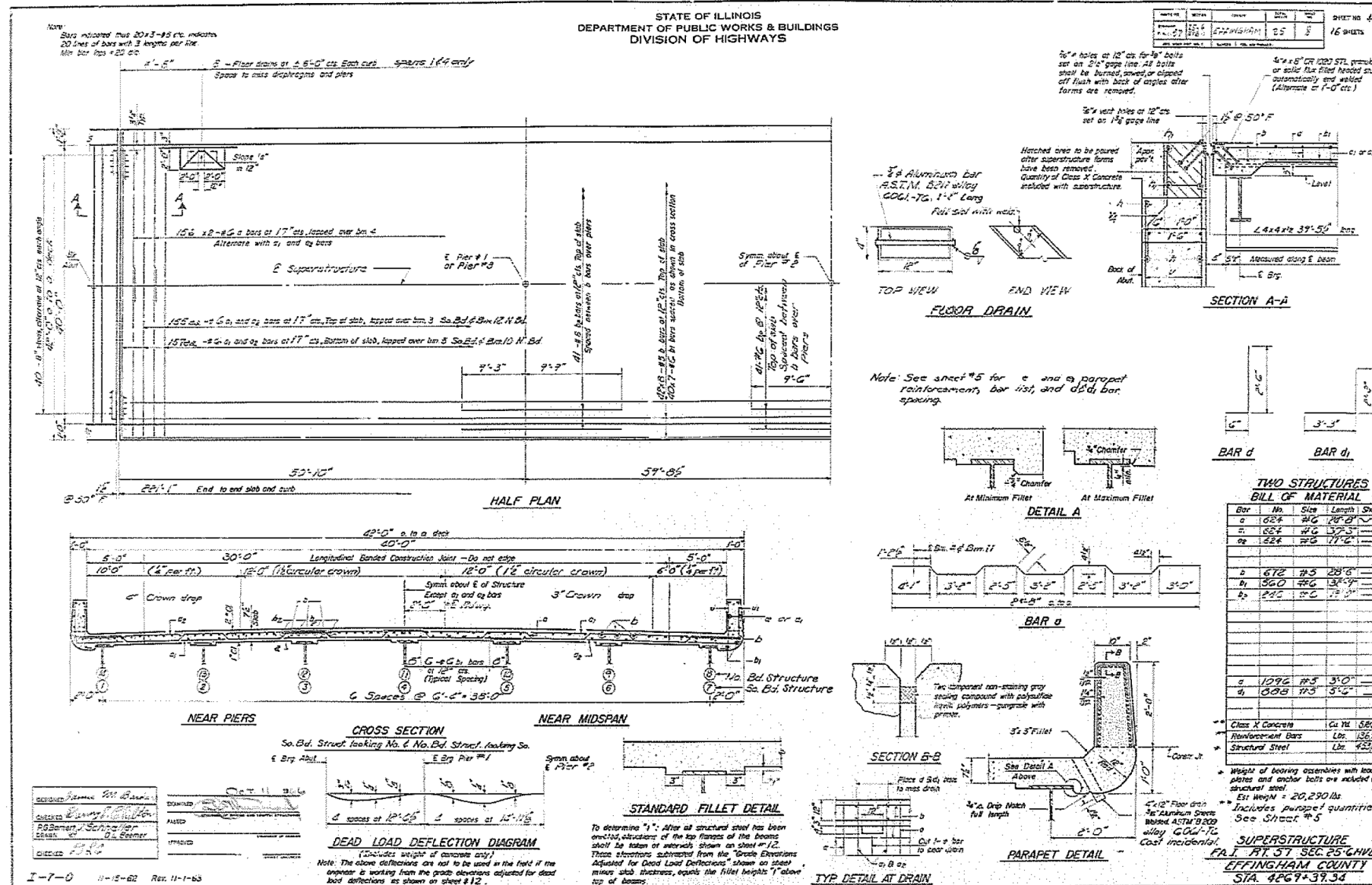
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	DATE -	REVISED -

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7 BRIDGE PAINTING 2021-4	*	29	13
CONTRACT NO. 74A44				
ILLINOIS FED. AID PROJECT				

*COLES, EFFINGHAM, FAYETTE

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
 025-0067, 025-0068

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

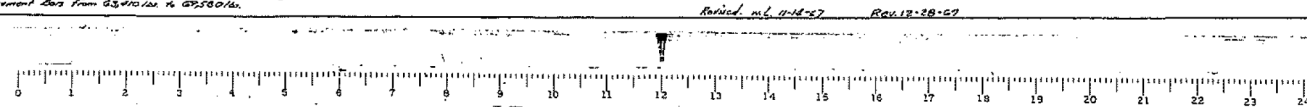
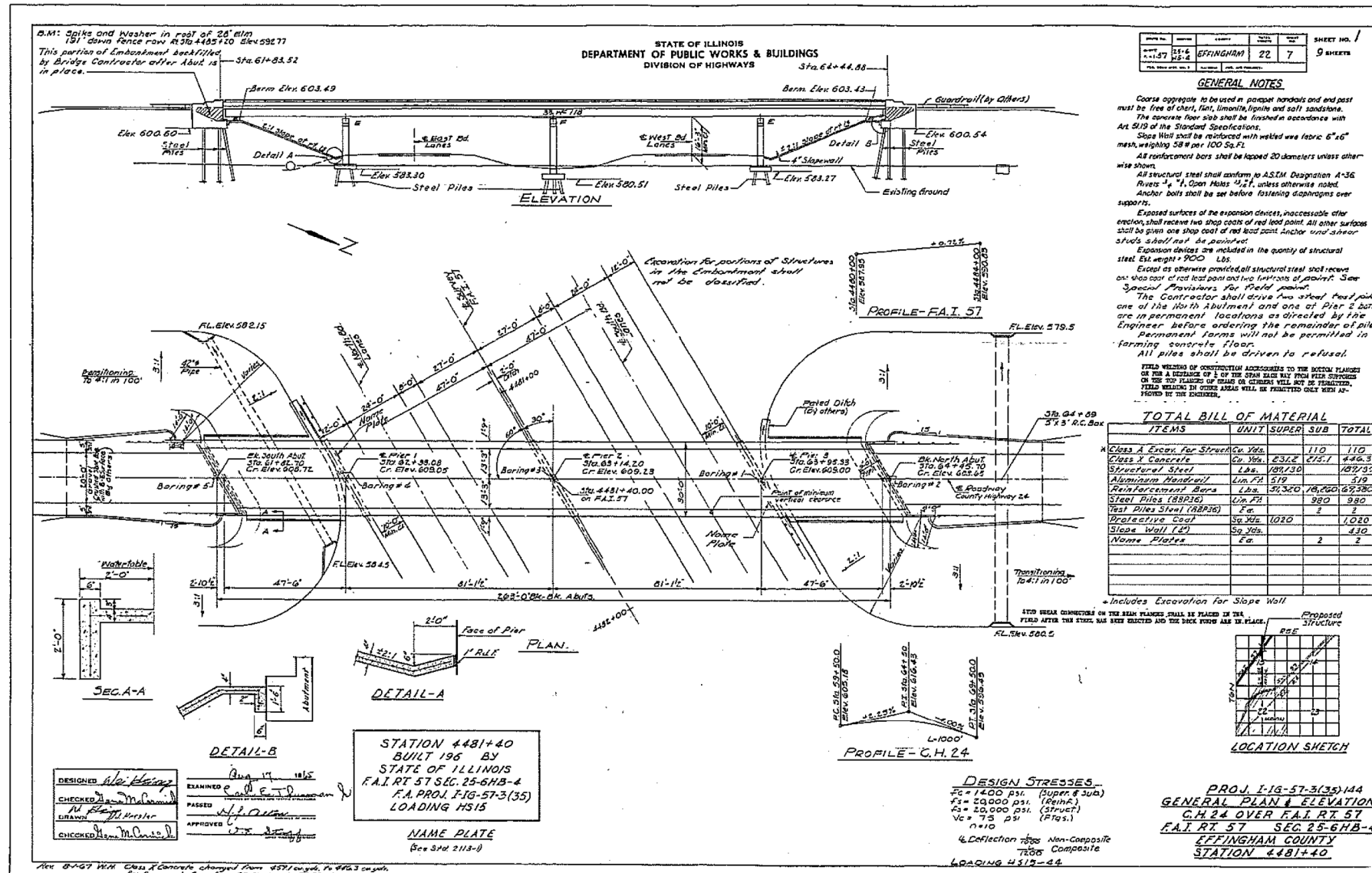
*COLES, EFFINGHAM, FAYETTE

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7 BRIDGE PAINTING 2021-4		29	14

CONTRACT NO. 74A44

ILLINOIS FED. AID PROJECT

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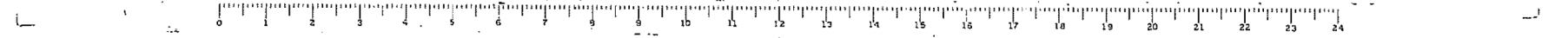
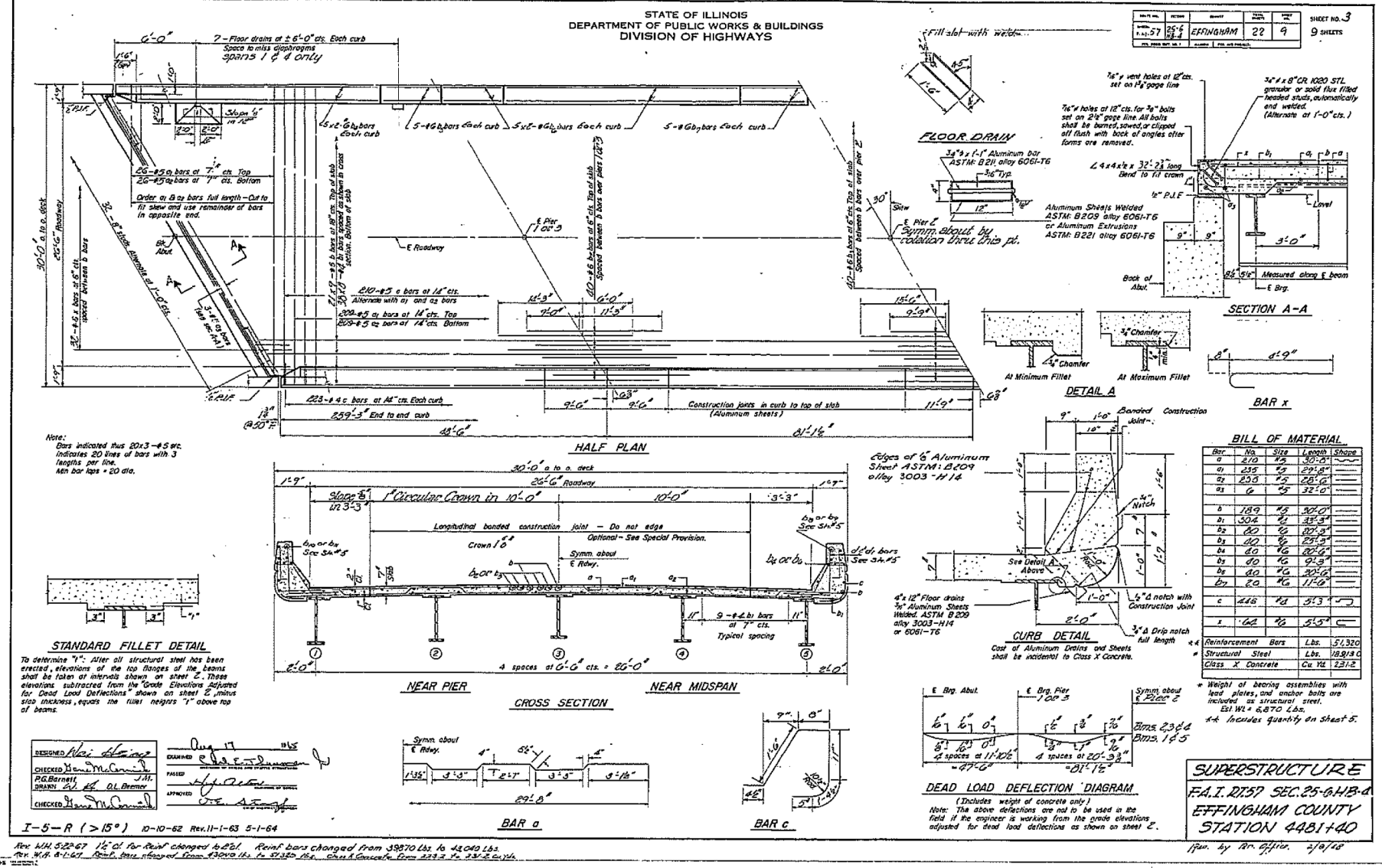
DESIGNED -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING STRUCTURE PLANS		
025-0073		
SCALE:	SHEET 1 OF 3 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7 BRIDGE PAINTING 2021-4		29	15
CONTRACT NO. 74A44				
ILLINOIS / FED. AID PROJECT				

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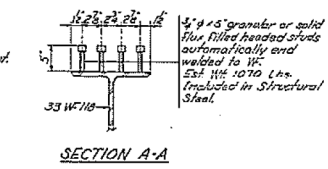
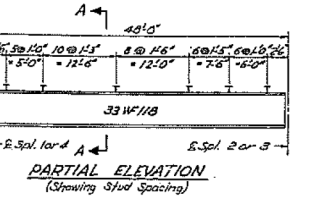
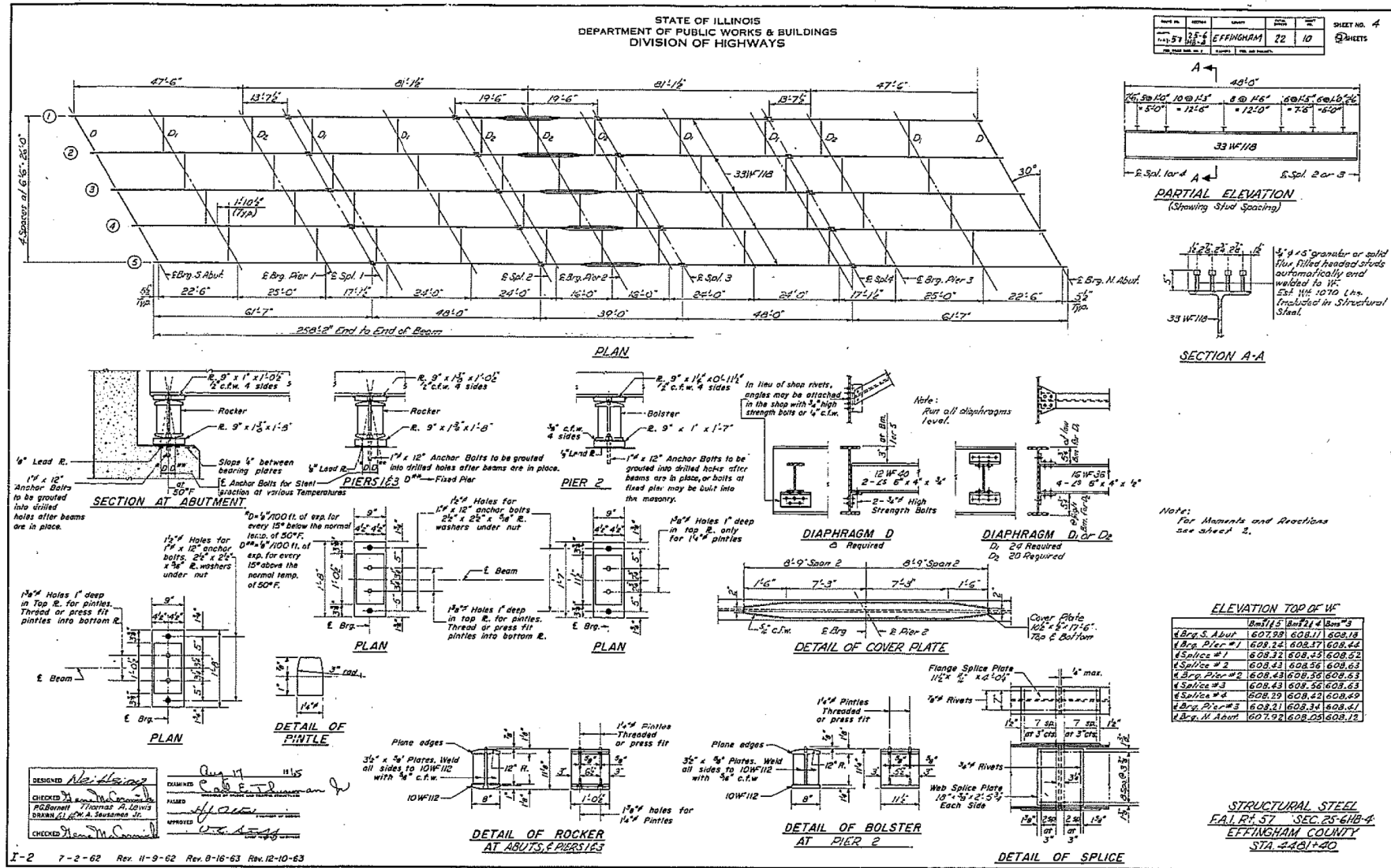


*COLES, EFFINGHAM, FAYETTE

USER NAME = steffemk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS 025-0073			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 1/12/2021	CHECKED -	REVISED -		CONTRACT NO. 74A44							
	DATE	REVISED -		ILLINOIS	FED. AID PROJECT						

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

PROJECT NO. 22-10 EFFINGHAM
SHEET NO. 4



Note: For Moments and Reactions see sheet 3.

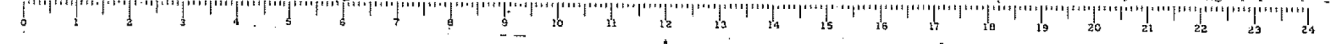
ELEVATION TOP OF W*

	Station 1	Station 2	Station 3
Abut. S. Abut.	607.99	608.11	608.18
Abut. Pier #1	608.21	608.31	608.41
Splice #1	608.32	608.42	608.52
Splice #2	608.43	608.56	608.63
Abut. Pier #2	608.43	608.56	608.63
Splice #3	608.43	608.56	608.63
Splice #4	608.29	608.42	608.49
Abut. Pier #3	608.21	608.34	608.41
Abut. N. Abut.	607.92	608.02	608.12

STRUCTURAL STEEL
F.A.I. RT. 57 - SEC. 25-61B-4
EFFINGHAM COUNTY
STA. 481+40

DESIGNED: *Alfred H. ...*
CHECKED: *Robert E. ...*
APPROVED: *...*

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



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*COLES, EFFINGHAM, FAYETTE

USER NAME	DESIGNED	REVIS
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	DRAWN	REVISED
	CHECKED	REVISED
	DATE	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
025-0073

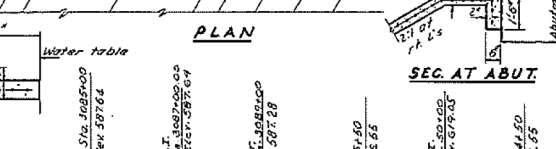
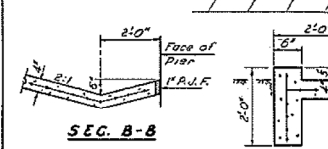
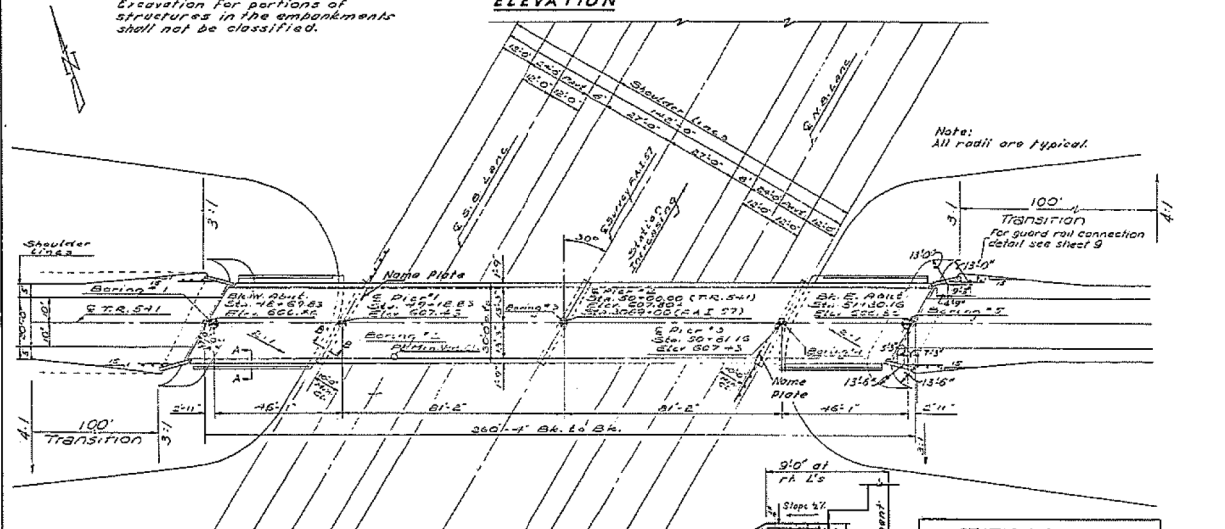
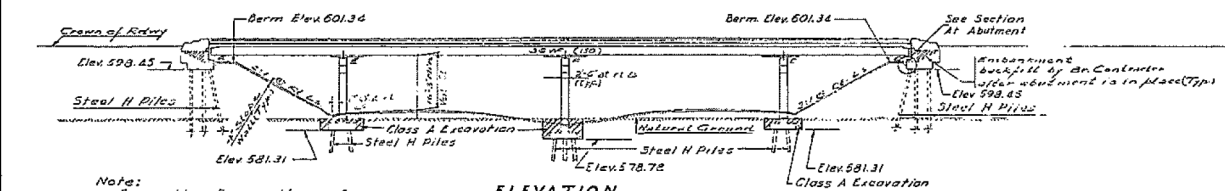
SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7 BRIDGE PAINTING 2021-4	*	29	17
CONTRACT NO. 74A44				
ILLINOIS FED. AID PROJECT				

B.M. Spike of Marker in Road 30' Hedge
2 1/2" dia. 100' x 30 Elev 585.73

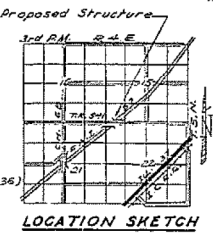
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	SHEET NO.	TOTAL SHEETS
57	26-2HB	25	8
FAYETTE			9 SHEETS



STATION 3089+00
BUILT 196 BY
STATE OF ILLINOIS
F.A.I. RT. 57 SEC. 26-2HB
F.A. PROJ. E-57-310
LOADING HS 15

NAME PLATE
(See Spd. 2113-1)
Design Stress 33,000
f_c = 1400 psi Super & Sub.
f_c = 75 psi Floating
f_s = 20,000 psi Reinf.
f_s = 20,000 psi Struct (A-36)
n = 10
δ Deflection = 100
Loading HS 15-44



GENERAL NOTES

Coarse aggregate shall be of natural materials and end part must be free of chert, flint, limonite, lignite and soft sandstone.
The concrete floor slab shall be finished in accordance with Art. 5114 of the S.D. 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 dia. unless otherwise shown.
All structural steel shall conform to A.S.T.M. Designation A-36.
Rivets 3/4" Open Holes 1/2" dia. unless otherwise noted.
Anchor bolts shall be set before fastening diaphragms over supports.
Exposed surfaces of the expansion devices, inaccessible after erection, shall receive two shop coats of red lead paint. All other surfaces shall be given one shop coat of red lead paint. Anchor studs shall not be painted.
Expansion joints are included in the quantity of structural steel. E.T. 11A-850 Lbs.
Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of paint. See Special Provisions.
All piles shall be driven to refusal.
Piles shall be driven until they are permitted in forming the concrete floor.
The contractor shall drive two steel test piles, one at the West Abutment and one at Pier 2, 20ft in permanent location, as directed by the Engineer before ordering the remainder of piles.
FIELD WELDING OF CONNECTIONS ACCORDING TO THE WELDED FLANGES ON THE A BEAMS OF 2 OF THE SPAN BAYS MAY BE PERMITTED. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Class A Excav. for structures	Sq. Yds.		100	100
Class I Concrete	Cu. Yds.	233.0	210.7	443.6
Protective Coat	Sq. Yds.	272		272
Structural Steel	Lbs.	190,540		190,540
Aluminum Handrail	Lin. Ft.	514		514
Reinforcement Bars	Lbs.	57,420	17,590	74,910
Steel Piles (38-238)	Lin. Ft.		910	910
Test Piles Steel (38-238)	Ea.		2	2
Name Plates	Ea.		2	2
Slope Wall (6")	Sq. Yds.			380

*Includes applications on inside vertical face, top & exposed end of the abutment wings.

GENERAL PLAN & ELEVATION
PROJ. E-57-310
F.A. 541 OVER F.A.I. RT. 57
F.A.I. RT. 57 SEC. 26-2HB
FAYETTE COUNTY
STATION 3089+00

DESIGNED: John Hansen
CHECKED: J. Kessler
DRAWN: J. Kessler
EXAMINED: Nov 22 1965
PASSED: [Signature]
APPROVED: [Signature]



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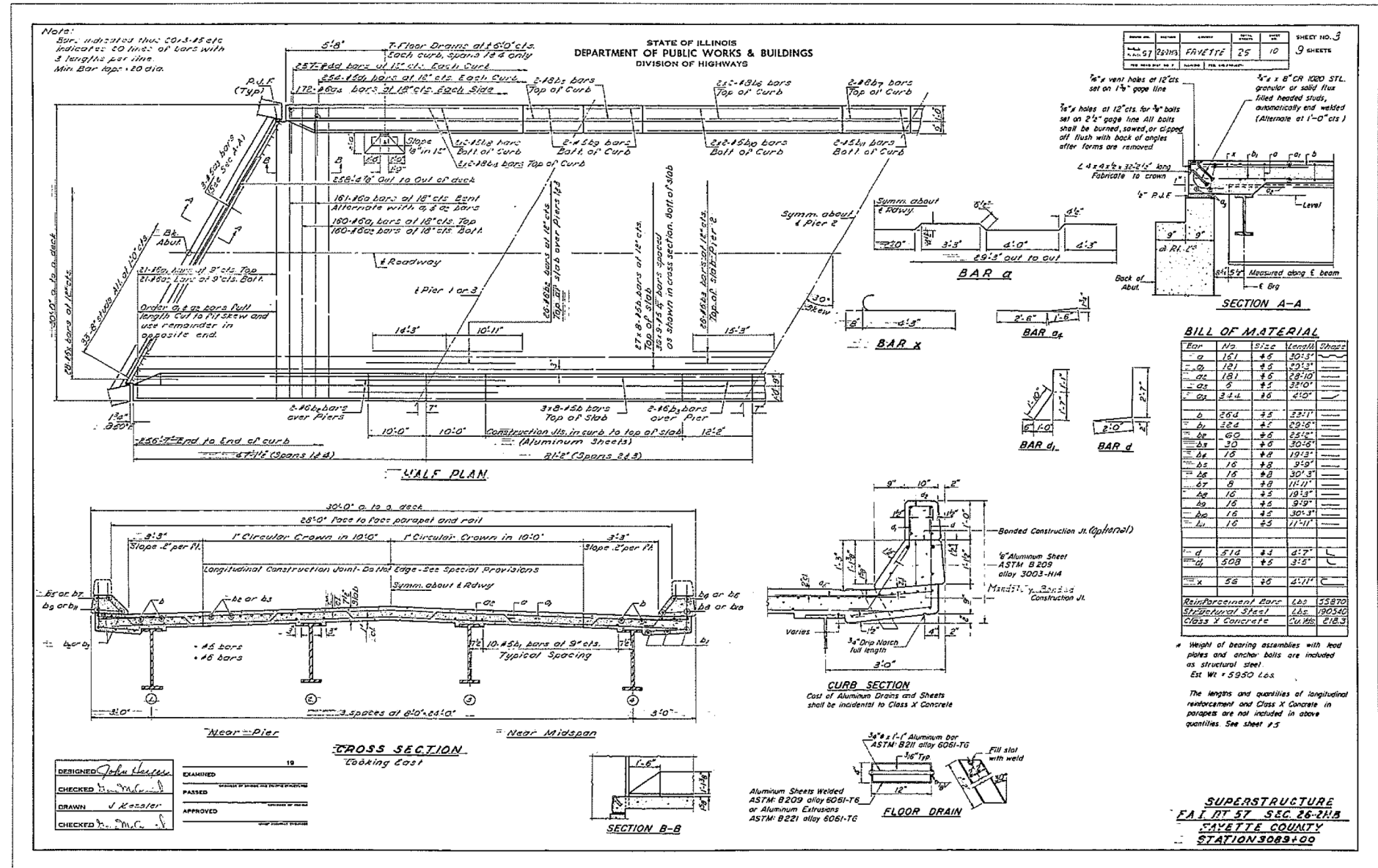
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
026-0081

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7 BRIDGE PAINTING 2021-4		29	18
				CONTRACT NO. 74444
ILLINOIS FED. AID PROJECT				

*COLES, EFFINGHAM, FAYETTE



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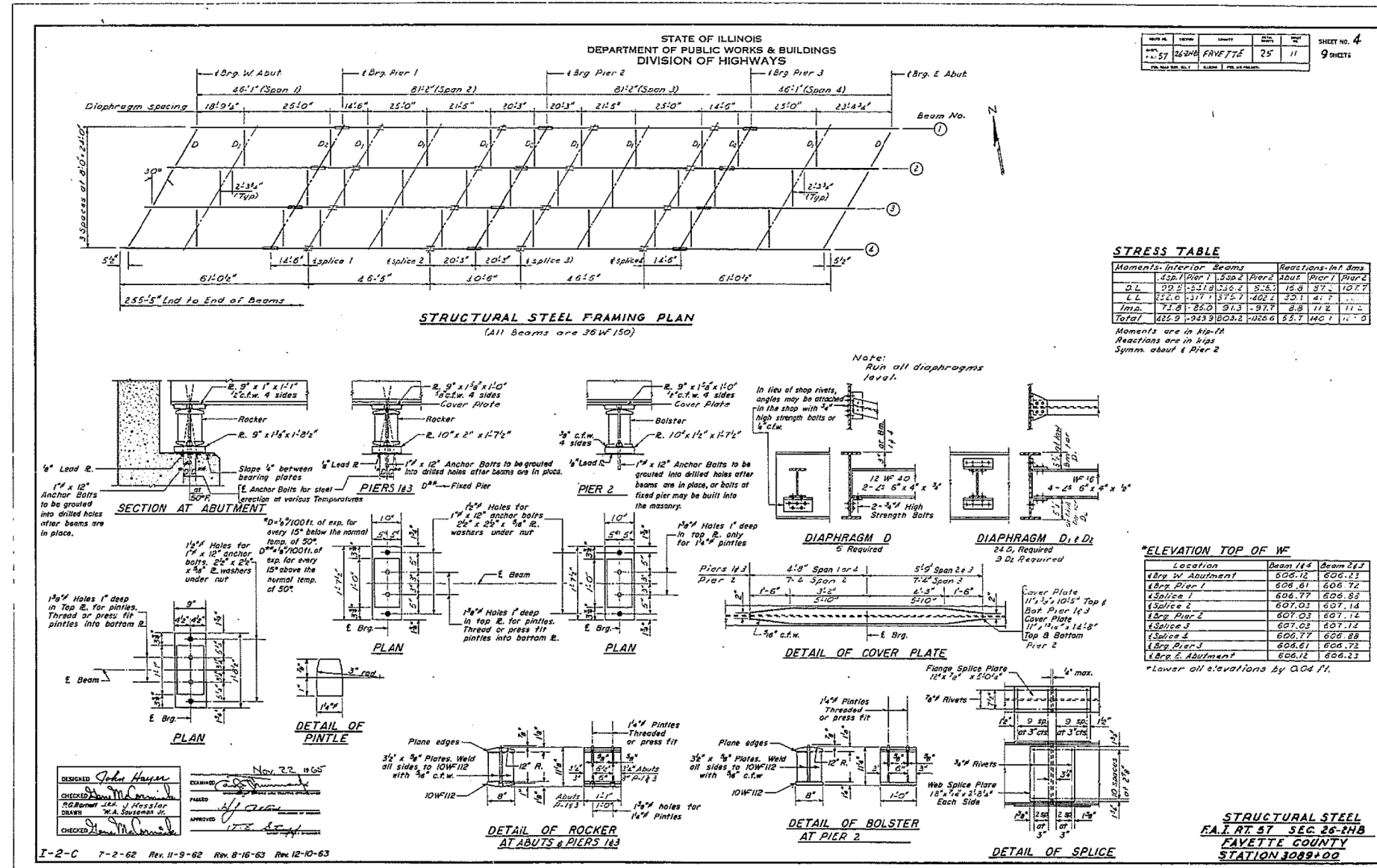
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING STRUCTURE PLANS		
026-0081		
SCALE:	SHEET 2 OF 3 SHEETS	STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7 BRIDGE PAINTING 2021-4		29	19
CONTRACT NO. 74444				
ILLINOIS FED. AID PROJECT				

*COLES, EFFINGHAM, FAYETTE

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DESIGNED: John Hays
CHECKED: [Signature]
DRAWN: [Signature]
DATE: Nov. 22, 1965

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
026-0081

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

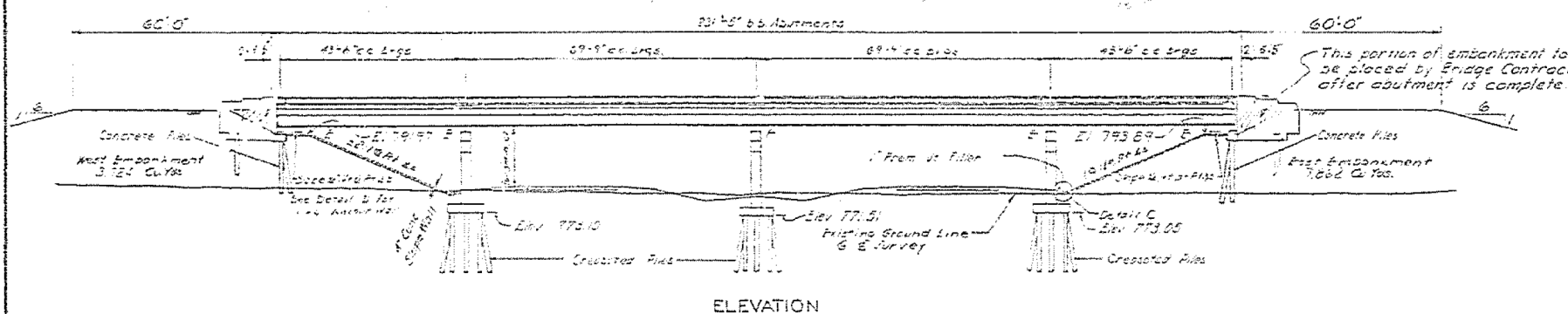
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7 BRIDGE PAINTING 2021-4	FAYETTE	29	20

CONTRACT NO. 74A44
ILLINOIS FED. AID PROJECT

*COLES, EFFINGHAM, FAYETTE

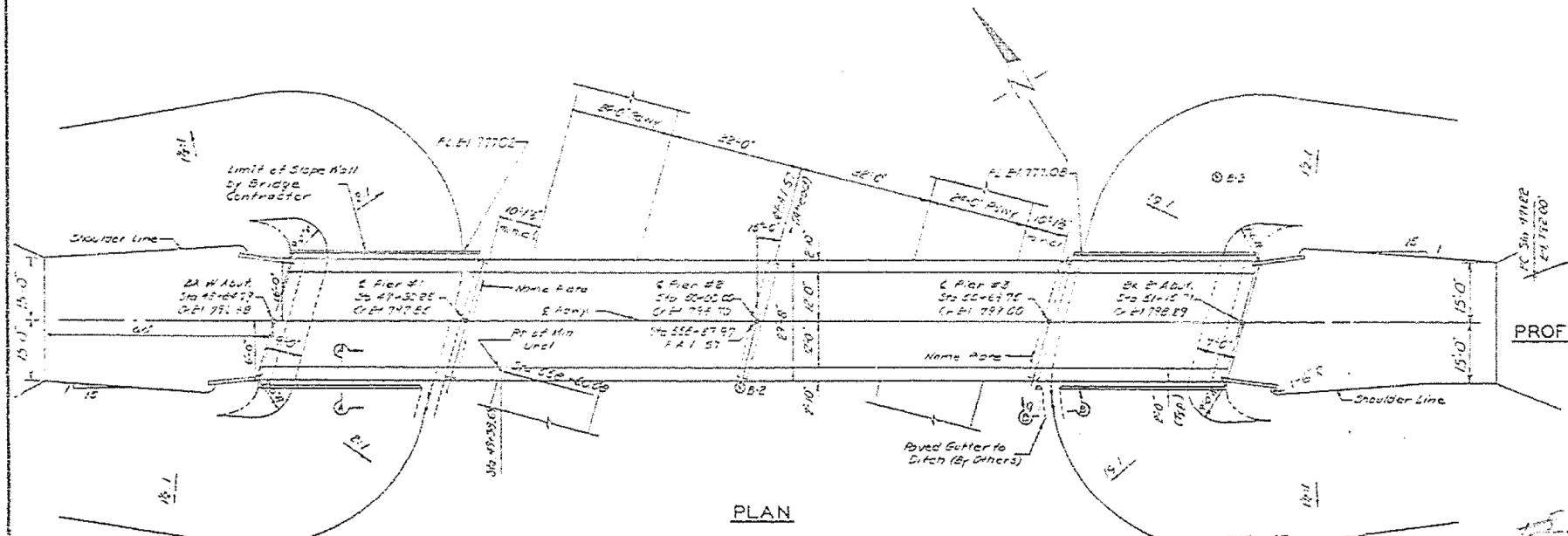
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	DATE	SCALE
FA 157	COLES	11/22/21	AS SHOWN



GENERAL NOTES

Class Y Concrete shall be used throughout. The concrete floor slab shall be finished in accordance with Article 51.19 of the Standard Specifications, and shall be poured in one continuous operation between Construction Joints. All connections shall be riveted except as noted. Rivets shall be 3/4" & holes 13/16" & except as noted. All holes for gullies shall be grouted 1 1/2" & cement to proper size (1 3/16" & in web and 1 5/16" & in flange) with all stiffeners assembled in shop in proper position, with or without diaphragms in place. Leave assembled in shop for inspection. Anchor bolts shall be set before riveting diaphragms over supports. All rollers, bolsters, bearing plates, lead plates, plintles and anchor bolts shall be fabricated and set in accordance with Article 51.15 of the Standard Specifications and are included in quantity of Structural Steel. Embankment shall be constructed to elevations shown in accordance with Section 15 of the Standard Specifications before abutment piles are driven. Holes for the concrete piles at each abutment shall be prepared in accordance with Article 60.9(c) of the Standard Specifications. The Contractor shall drive two (2) test piles. One (1) timer test pile shall be driven as directed by the Engineer before ordering the remainder of the timber piles. One (1) concrete test pile shall be driven in a permanent location before casting or ordering the remainder of the piles. All Structural Steel shall receive one shop coat of red lead paint after inspection and two field coats of aluminum paint. See Articles 59.1 and 56.5 inclusive of the Standard Specifications. All paint shall be furnished and applied by the Contractor involved. Coarse Aggregate which is to be used in and past 2nd parapet must be absolutely free of chert, flint, limonite, lignite, and soft sandstone. 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 the quantity of Structural Steel (See Section 15).

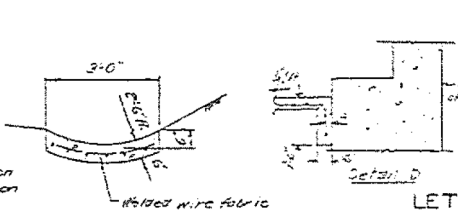
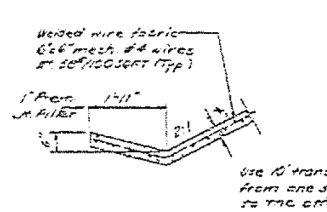
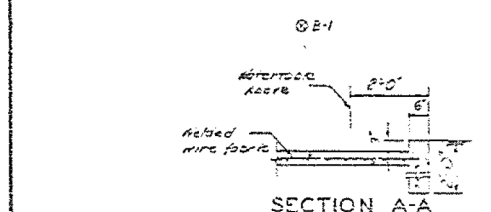


PROFILE ALONG C.H. 19
Class 2-1 Road

PROFILE ALONG F.A.I. RT. 57

TOTAL BILL OF MATERIAL

ITEM	QUANTITY	UNIT	PRICE	TOTAL
Class Y Concrete	200.0	CU YD	154.3	30860
Aluminum Rivets	450	LB	4.50	2025
Reinforcement Bars	132.93	TON	175.00	23263
Furnishing & Erecting Structural Steel	463.82	TON	48.00	22280
Name Plates	1	EA	2.00	2
Crested Piles	1188	LN FT	1.188	1418
Test Piles (Timber)	2	EA	1.00	2
Concrete Piles	880	LN FT	2.80	2464
Test Piles (Concrete)	1	EA	1.00	1
Slope Wall	1	EA	1.00	1
Class A Excavation for Structures	1.28	CU YD	1.28	1.28
Borrow Excavation	12.94	CU YD	12.94	12.94
PROTECTIVE COAT	39.12	SQ YD	6.00	234.72



LETTERING FOR NAME PLATE

See Std. 2113-1

STATION 558+87.97
BUILT 196 BY
STATE OF ILLINOIS
F.A.I. RT. 57 SEC 15-20HB-1
FA PROJ. I-57-4(B)
LOADING HS 15

DESIGN STRESSES

2 = 1400 P.S.I.
3 = 20,000 P.S.I. (Reinf.)
5 = 20,000 P.S.I. (Rivets) A-36
1/2" 75 P.S.I. (Pier Footings)
n = 10

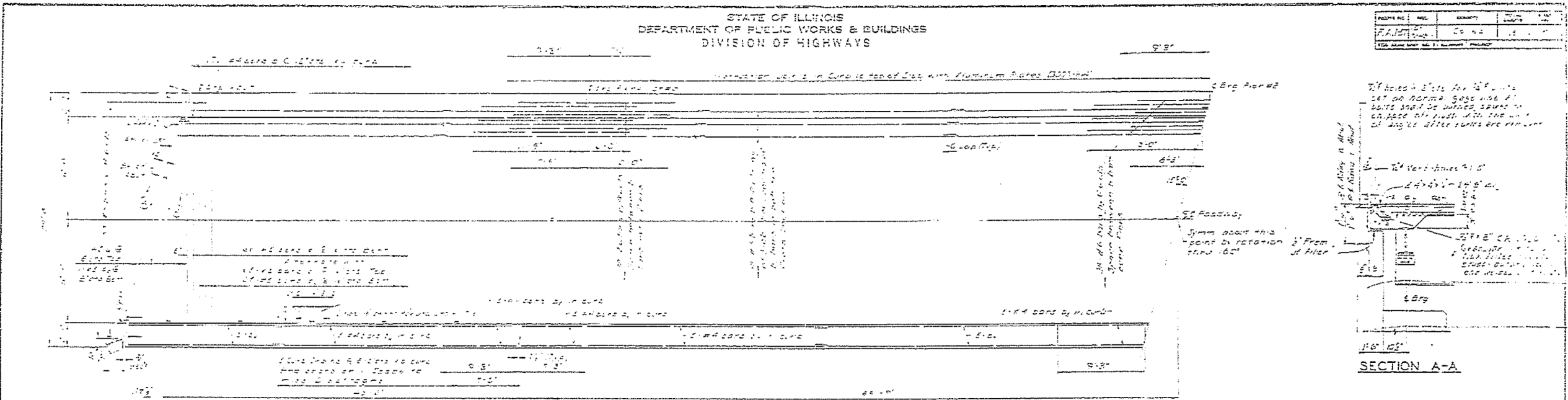
GENERAL PLAN & ELEVATION C.H. 19 OVER FED. AID INTERSTATE

F.A.I. ROUTE 57 SEC. 15-22HB-1
COLES COUNTY
STATION 558+87.97
HANSON, COLLINS & RICE
CONSULTING ENGINEERS

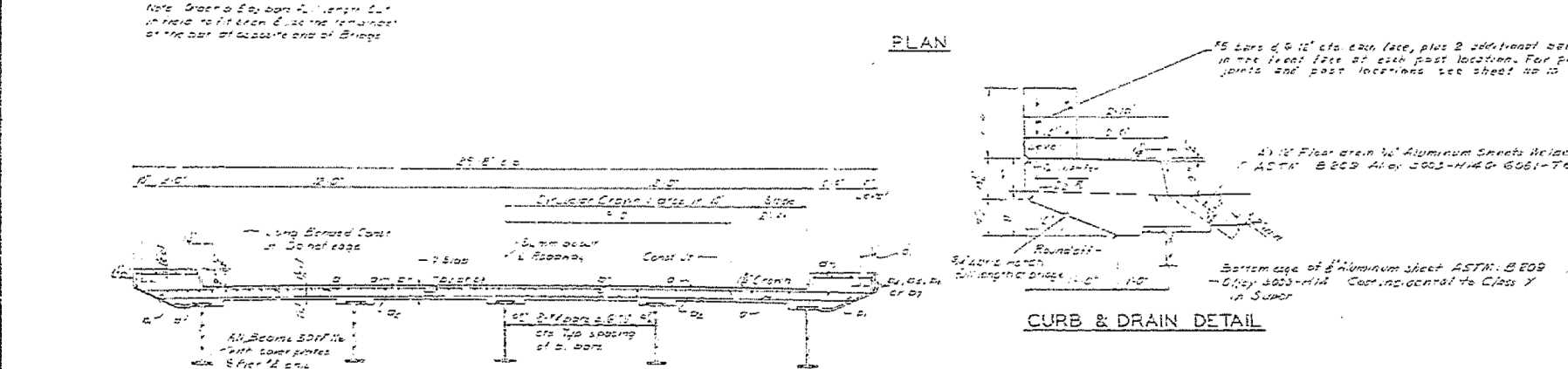
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CHECKED	YFS	DRAWN	YFS
DRAWN	JCC	APPROVED	
CHECKED	YFS		

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

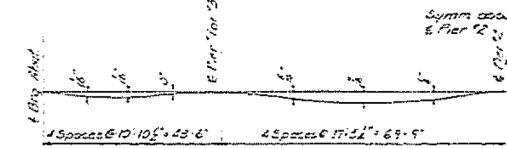
PROJECT NO.	74A44	REVISION	
DATE	1/12/2021	BY	
SHEET NO. 2		TOTAL SHEETS	3



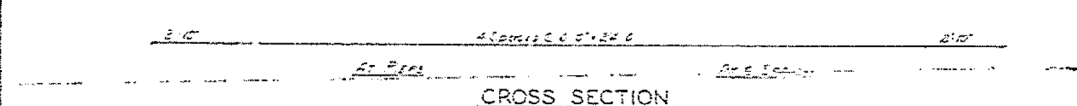
SECTION A-A



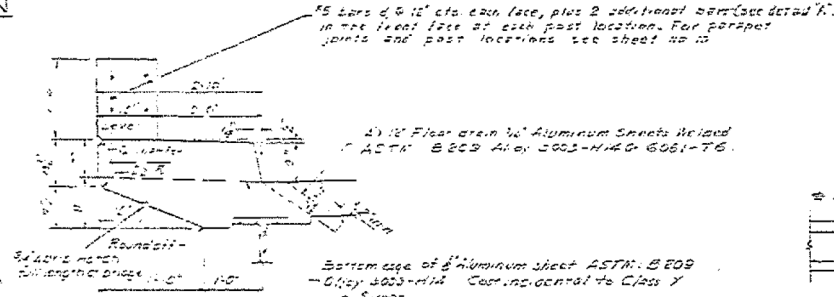
PLAN



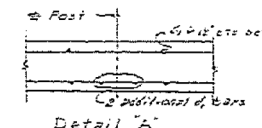
DEAD LOAD DEFLECTION DIAGRAM



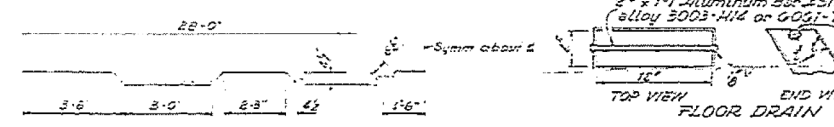
CROSS SECTION



CURB & DRAIN DETAIL



Detail A



TOP VIEW FLOOR DRAIN

SUPERSTRUCTURE BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
D	166	#5	30'-0"	W
C	176	#5	28'-0"	W
C4	176	#5	28'-0"	W
B	152	#6	30'-0"	W
D1	272	#6	30'-0"	W
A	106	#5	4'-1"	W
D2	36	#6	2'-0"	W
C2	36	#6	18'-0"	W
D3	20	#6	3'-0"	W
D4	20	#6	7'-0"	W
D1	20	#6	27'-3"	W
D	362	#6	7'-0"	W
A	106	#5	4'-1"	W
B	1002	#5	3'-5"	W
Class I Concrete				C8 TOL 18.5%
Reinforcement Bars				AS 28.0%
Formwork & Strutting				AS 16.7%
Structural Steel				AS 16.7%

SUPERSTRUCTURE
C.H. 19 OVER FED. AID INTERSTATE
F.A.I. ROUTE 57 SEC 15-22 HB-1
COLES COUNTY
STATION 558+87.97

METHOD OF DETERMINING FILLET HEIGHTS 'X'

After all Structural Steel has been erected, elevations at the top flanges of the beams shall be taken at intervals not to exceed 10 feet. From these elevations subtract the increment of deflection for these points, determined from the D.L. deflection diagram. The elevations so obtained subtracted from the theoretical gross elevations, minus floor thickness, equals the fillet heights 'X' above top of beam.

DESIGNED	RC	DATE	3-26-1864
CHECKED	Y.F.S.	APPROVED	
DRAWN	RC	DATE	
CHECKED	Y.F.S.	DATE	

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

DATE	BY	REV.	DESCRIPTION
FA1571212		1	CONTRACT NO. 7444
12/15/2021	JFC	2	REVISED PER DESIGNER

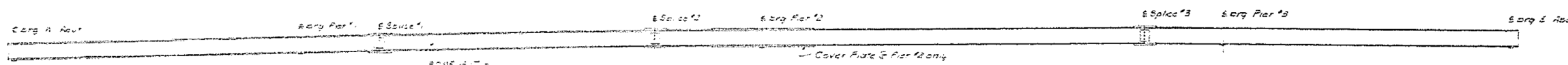
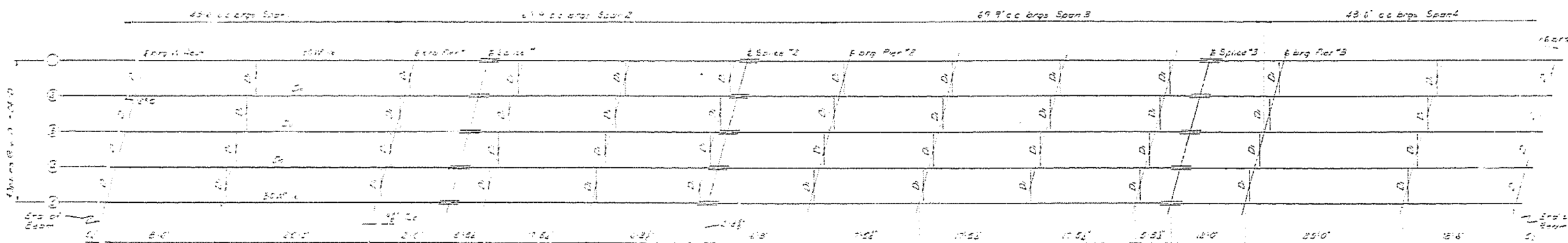
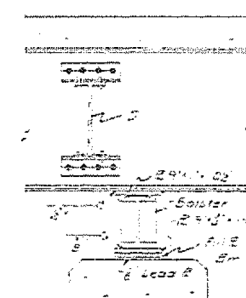
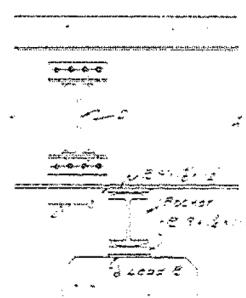
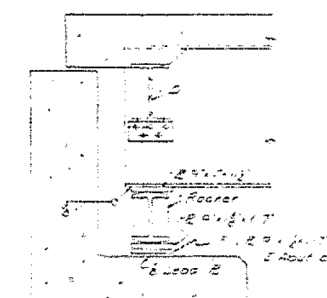
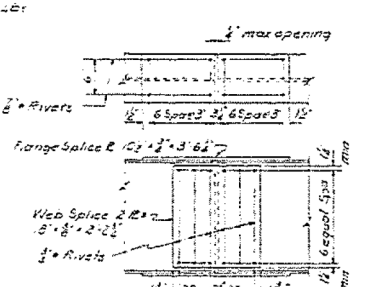
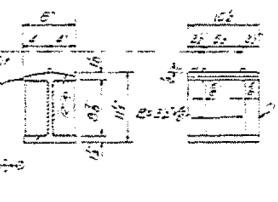
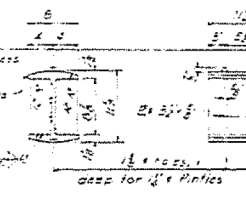
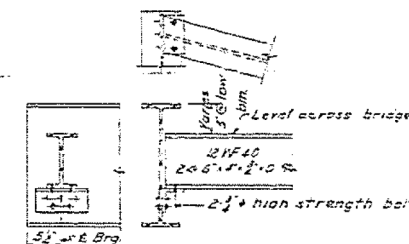
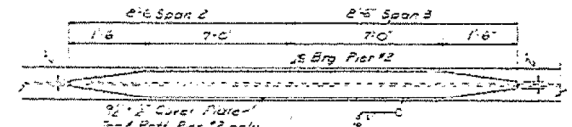
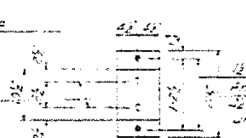
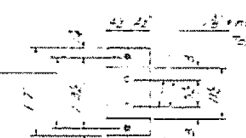
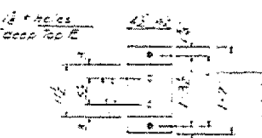
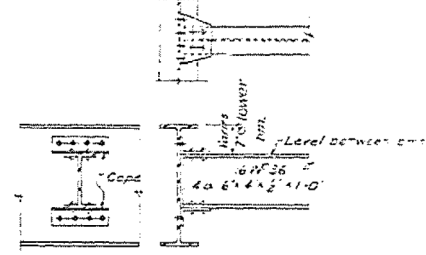


TABLE OF ELEVATIONS-TOP FLANGES OF BEAMS

Span	Span 1	Span 2	Span 3	Span 4
Left Pier	10' 0"	7' 0"	7' 0"	10' 0"
Right Pier	7' 0"	10' 0"	7' 0"	10' 0"
Centerline	10' 0"	10' 0"	10' 0"	10' 0"



Note: These Elevations are for fabrication of structural steel and do not include allowance for any deflection.



DESIGNED	JCC	EXAMINED	[Signature]
CHECKED	JFS	APPROVED	[Signature]
DRAWN	JCC		
CHECKED	JFS		

STRUCTURAL STEEL
C.H. 19 OVER FED AID INTERSTATE
F.A.I. ROUTE 57 SEC. 15-22HB-1
COLES COUNTY
STATION 558+87.97

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
015-0029

USER NAME = stefenmk	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/12/2021	CHECKED -	REVISED -
	DATE -	REVISED -

SCALE:	SHEET 3	OF 3	SHEETS	STA.	TO STA.
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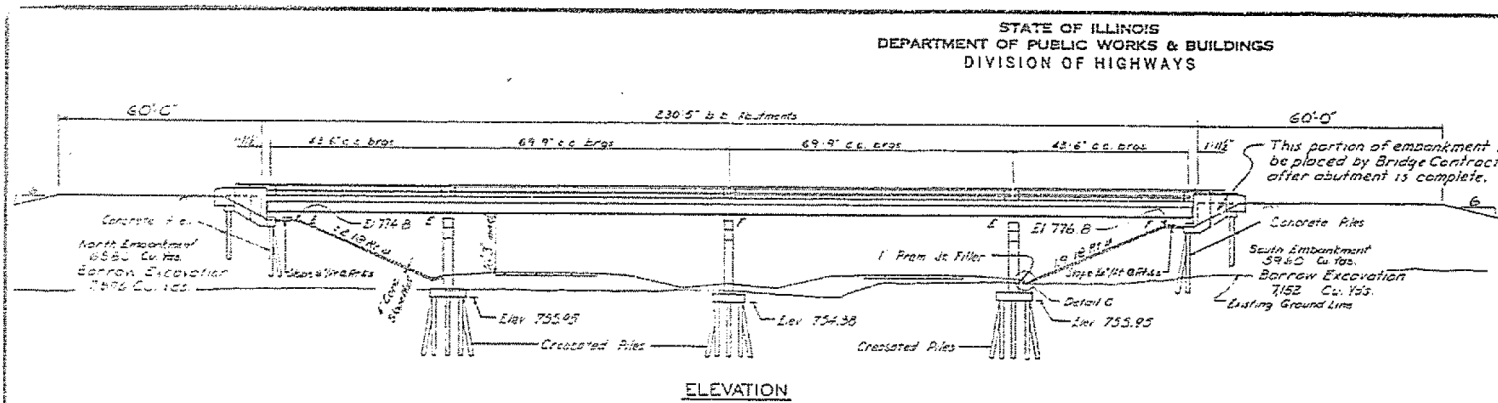
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7 BRIDGE PAINTING 2021-4	*	29	23
				CONTRACT NO. 7444
		ILLINOIS	FED. AID PROJECT	

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*COLES, EFFINGHAM, FAYETTE

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

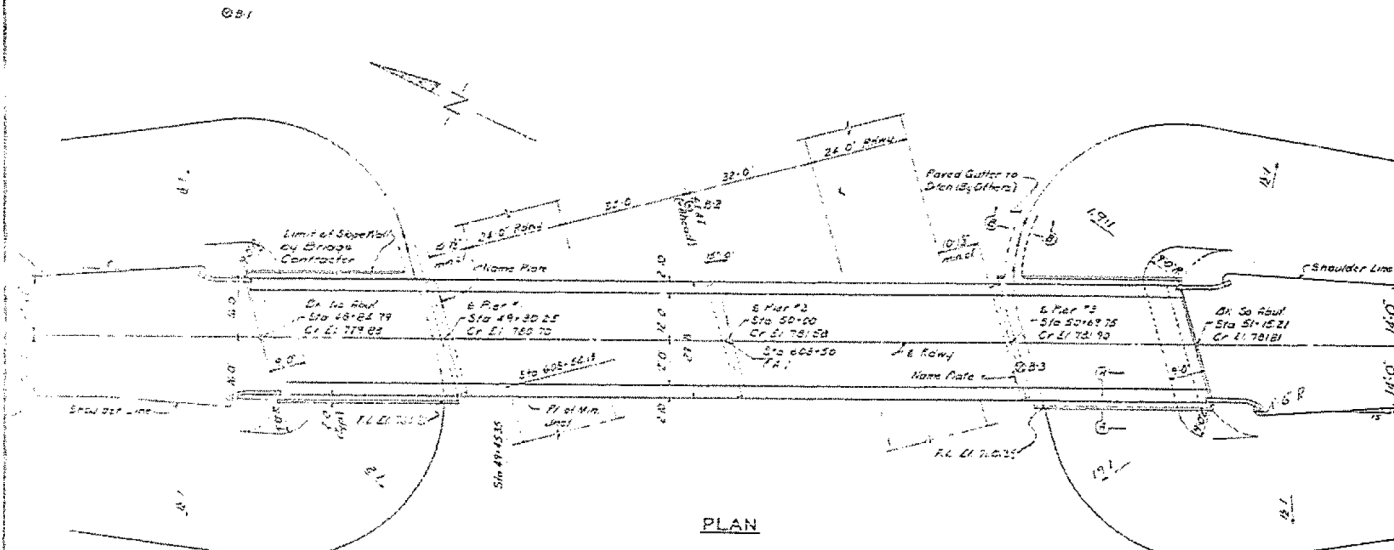
PROJECT NO.	DATE	SCALE	SHEET NO.	TOTAL SHEETS
FAI 57	12/2021	1/2"	7	7



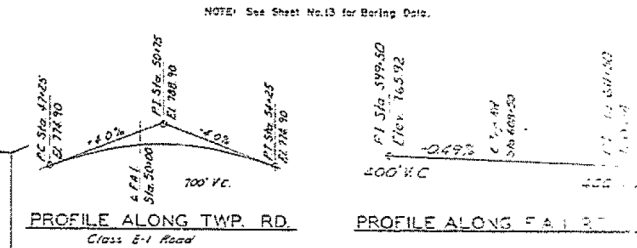
ELEVATION

GENERAL NOTES

Class X Concrete shall be used throughout. The concrete floor slabs shall be finished in accordance with Article 31.15(a) of the Standard Specifications, and shall be poured in one continuous operation between Construction Joints. All connections shall be riveted except as noted. Rivets shall be 3/4" diameter and holes 13/16" diameter except as noted. All holes for splices shall be punched 1/16" diameter and reamed to proper size (13/16" diameter in web and 1 1/8" diameter in flange) etc. all stringers assembled in shop in proper position, with or without diaphragms in place. Leave assembled in shop for inspection. Anchor bolts shall be set before riveting diaphragms over supports. All rockers, bolsters, bearing plates, lead plates, plotters and anchor bolts shall be fabricated and set in accordance with Article 31.15 of the Standard Specifications and are included in quantity of Structural Steel. Embankment shall be constructed to elevations shown in accordance with Section 16 of the Standard Specifications before abutment piles are driven. Holes for the concrete piles of each abutment shall be prepared in accordance with Article 60.9(c) of the Standard Specifications. The Contractor shall drive two (2) test piles. One (1) timber test pile shall be driven as directed by the Engineer before ordering the remainder of the timber piles. One (1) concrete test pile shall be driven in a permanent location before casting or ordering of the piles. All metal Handrail and Structural Steel shall receive one shop coat of red lead paint after inspection and two field coats of aluminum paint. See Articles 56.1 and 56.3 inclusive of the Standard Specifications. All paint shall be furnished and applied by the Contractor. Course Aggregate which is to be used in end rests and wing walls shall be free of chert, flint, limestone, lignite, & soft sandstone.



PLAN



PROFILE ALONG TWP. RD.
Class E-1 Road

PROFILE ALONG FAI RD.

TOTAL BILL OF MATERIALS

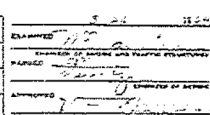
ITEM	QUANTITY	UNIT	AMOUNT
Class X Concrete	195.6	CY	195.6
Furnishing & Erecting Metal Handrail	437	LB	437
Reinforcement Bars	108,370	LB	108,370
Furnishing & Erecting Structural Steel	16,860	LB	16,860
Stone Plates	1	EA	1
Cross-ties	4	EA	4
Cast Piles (Timber)	4	EA	4
Concrete Piles	2	EA	2
Test Piles (Concrete)	1	EA	1
Slab Wall	1	EA	1
Class A Excavation for Structures	150	CU YDS	150
Borrow Excavation	50	CU YDS	50
Protective Coat	600	SQ YDS	600

LETTERING FOR NAME PLATE

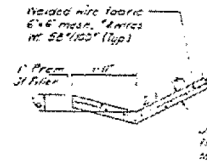
STATION 608+50
BUILT 19 07
STATE OF ILLINOIS
FAI 57 SEC 15-22-B-2
P.D. PROJ. 3-57-430
LOADING H15-512

See Sta. 213-1

SECTION A-A



DETAIL C



SECTION B-B

DESIGN STRESSES

E = 1100 PSI
F = 6000 PSI (Perm)
F = 20,000 PSI (Struct) A-36
vs to F.A.I. (Per Footings)
n = 10

GENERAL PLAN & ELEVATION
TWP. RD. OVER FED AID INTERSTATE

FAI ROUTE 57 SEC. 15-22-B-2
COLES COUNTY
STATION 608+50
HANSON, COLLINS & RICE
CONSULTING ENGINEERS

DESIGNED	JSC
CHECKED	JFS
DRAWN	D.J.G.
CHECKED	J.C.

APPROVED	[Signature]
DATE	12/2021

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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
015-0047

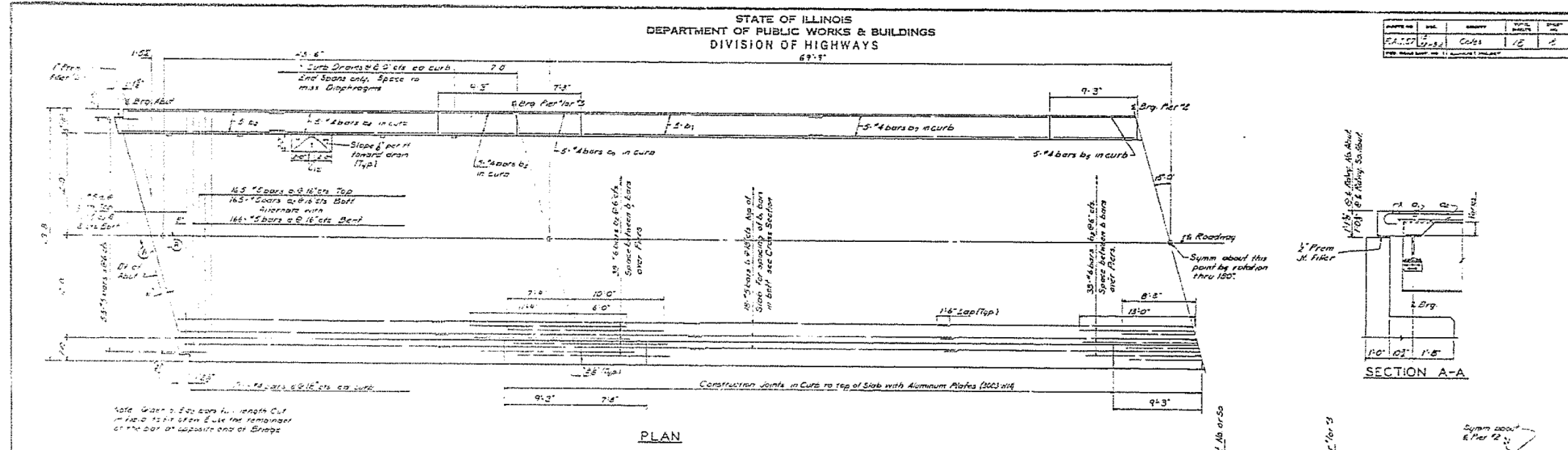
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7 BRIDGE PAINTING 2021-4		29	24
CONTRACT NO. 74444				
ILLINOIS FED. AID PROJECT				

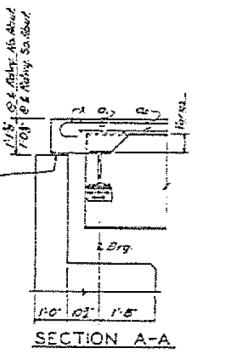
*COLES, EFFINGHAM, FAYETTE

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

DATE	BY	REVISION	NO.
12-22-21	STF	COLES	15

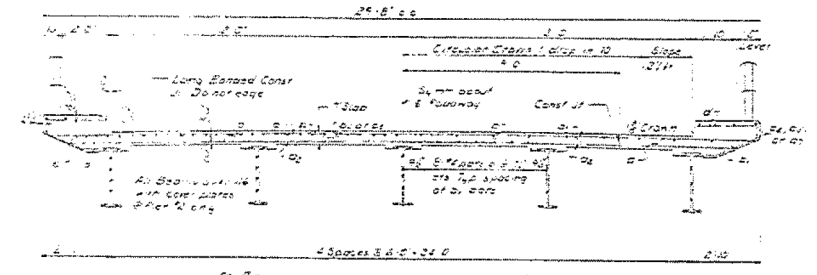


PLAN

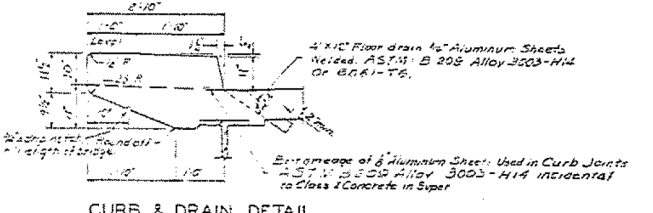


SECTION A-A

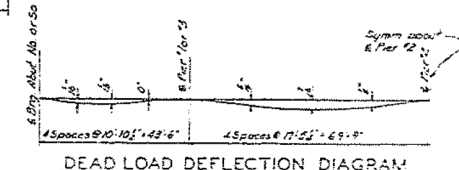
Note: When 2' long bars are used, length cut in field is 12' or less. Use the remainder of the bar at opposite end of bridge.



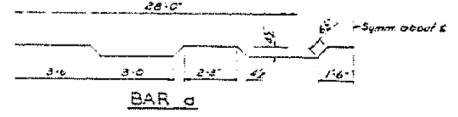
CROSS SECTION



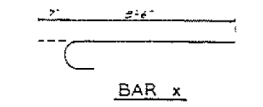
CURB & DRAIN DETAIL



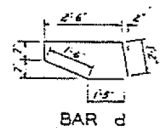
DEAD LOAD DEFLECTION DIAGRAM



BAR d



BAR x



BAR d

SUPERSTRUCTURE BILL OF MATERIAL

ITEM	QTY	UNIT	DESCRIPTION
1	1.0	cu yd	Concrete for Deck
2	1.0	sq yd	Formwork for Deck
3	1.0	sq yd	Formwork for Curb
4	1.0	sq yd	Formwork for Drain
5	1.0	sq yd	Formwork for Sill
6	1.0	sq yd	Formwork for Abutment
7	1.0	sq yd	Formwork for Pier
8	1.0	sq yd	Formwork for Retaining Wall
9	1.0	sq yd	Formwork for Bridge Deck
10	1.0	sq yd	Formwork for Bridge Sill
11	1.0	sq yd	Formwork for Bridge Pier
12	1.0	sq yd	Formwork for Bridge Abutment
13	1.0	sq yd	Formwork for Bridge Retaining Wall
14	1.0	sq yd	Formwork for Bridge Deck
15	1.0	sq yd	Formwork for Bridge Sill
16	1.0	sq yd	Formwork for Bridge Pier
17	1.0	sq yd	Formwork for Bridge Abutment
18	1.0	sq yd	Formwork for Bridge Retaining Wall
19	1.0	sq yd	Formwork for Bridge Deck
20	1.0	sq yd	Formwork for Bridge Sill
21	1.0	sq yd	Formwork for Bridge Pier
22	1.0	sq yd	Formwork for Bridge Abutment
23	1.0	sq yd	Formwork for Bridge Retaining Wall
24	1.0	sq yd	Formwork for Bridge Deck
25	1.0	sq yd	Formwork for Bridge Sill
26	1.0	sq yd	Formwork for Bridge Pier
27	1.0	sq yd	Formwork for Bridge Abutment
28	1.0	sq yd	Formwork for Bridge Retaining Wall
29	1.0	sq yd	Formwork for Bridge Deck
30	1.0	sq yd	Formwork for Bridge Sill
31	1.0	sq yd	Formwork for Bridge Pier
32	1.0	sq yd	Formwork for Bridge Abutment
33	1.0	sq yd	Formwork for Bridge Retaining Wall
34	1.0	sq yd	Formwork for Bridge Deck
35	1.0	sq yd	Formwork for Bridge Sill
36	1.0	sq yd	Formwork for Bridge Pier
37	1.0	sq yd	Formwork for Bridge Abutment
38	1.0	sq yd	Formwork for Bridge Retaining Wall
39	1.0	sq yd	Formwork for Bridge Deck
40	1.0	sq yd	Formwork for Bridge Sill
41	1.0	sq yd	Formwork for Bridge Pier
42	1.0	sq yd	Formwork for Bridge Abutment
43	1.0	sq yd	Formwork for Bridge Retaining Wall
44	1.0	sq yd	Formwork for Bridge Deck
45	1.0	sq yd	Formwork for Bridge Sill
46	1.0	sq yd	Formwork for Bridge Pier
47	1.0	sq yd	Formwork for Bridge Abutment
48	1.0	sq yd	Formwork for Bridge Retaining Wall
49	1.0	sq yd	Formwork for Bridge Deck
50	1.0	sq yd	Formwork for Bridge Sill

SUPERSTRUCTURE
TWP RD. OVER FED. AID INTERSTATE
F.A. I. ROUTE 57 SEC 15-22 HS-2
COLES COUNTY
STATION 608+50

METHOD OF DETERMINING FLEET HEIGHTS 'x'
After the Structural Dept. has been advised, elevations of the top flanges of the beams shall be taken at intervals not to exceed 10 feet from these elevations subtract the increment of deflection for these points determined from the D.L. deflection diagram. The elevations so obtained subtracted from the respective grade elevations, minus floor finish, equals the fleet height to deck top of beam.

DESIGNED	BY	DATE	11/2/21
CHECKED	BY	DATE	
DRAWN	BY	DATE	
CHECKED	BY	DATE	

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PLOT DATE = 1/12/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
015-0047

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7 BRIDGE PAINTING 2021-4	COLES	29	25
CONTRACT NO. 74A44				
ILLINOIS FED. AID PROJECT				

*COLES, EFFINGHAM, FAYETTE

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

DATE	BY	CHECKED	SCALE
12/21/2021	ST	CC	1/8" = 1'-0"

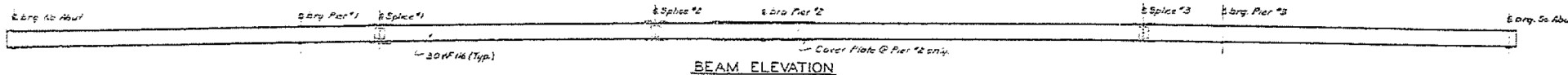
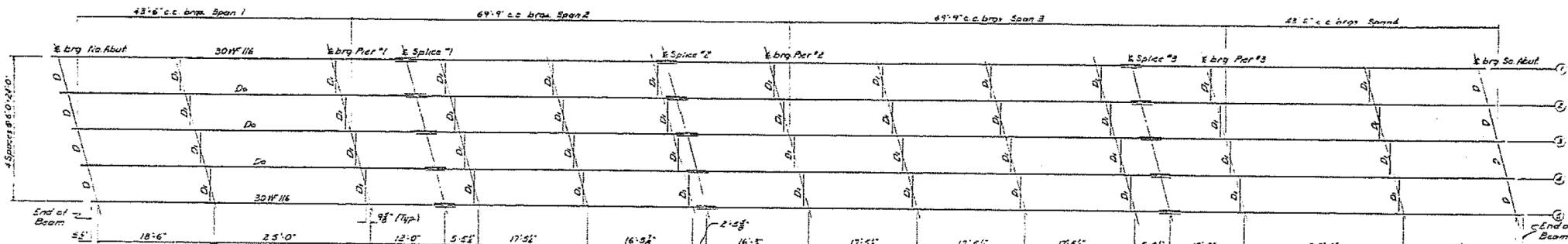
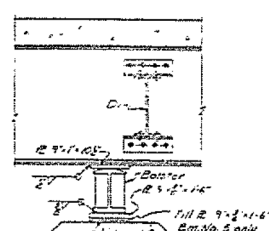
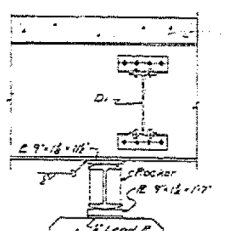
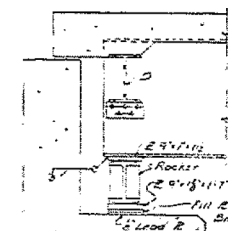


TABLE OF ELEVATIONS-TOP FLANGES OF BEAMS

Beam No.	Span	Splice	Pier	Elevation
1	1	1	1	175.81
1	2	2	2	176.05
1	3	3	3	176.29
1	4	4	4	176.53
2	1	1	1	176.77
2	2	2	2	177.01
2	3	3	3	177.25
2	4	4	4	177.49
3	1	1	1	177.73
3	2	2	2	177.97
3	3	3	3	178.21
3	4	4	4	178.45
4	1	1	1	178.69
4	2	2	2	178.93
4	3	3	3	179.17
4	4	4	4	179.41

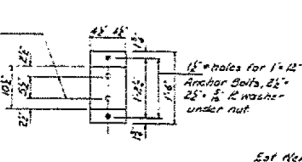
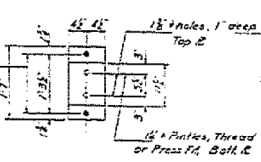
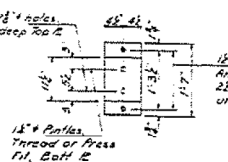
NOTE: These Elevations are for fabrication of structural steel and do not include allowance for any deflection.



SECTION AT ABUTMENT

PIERS 1 & 3

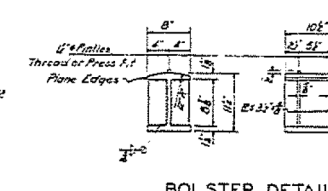
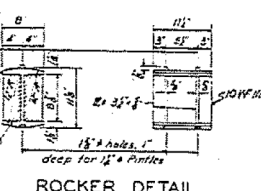
PIER 2



PLAN

PLAN

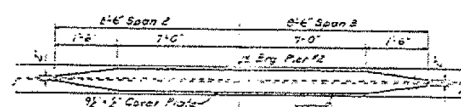
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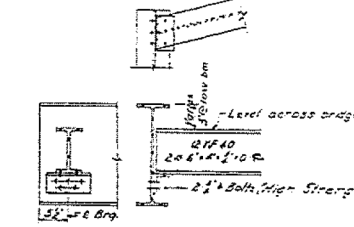
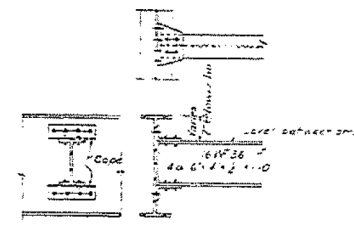
PINTLE DETAIL

ROCKER DETAIL

BOLSTER DETAIL



DETAIL OF COVER PLATE



DIAPHRAGM D1

DIAPHRAGM D

DESIGNED	CC	EXAMINED	ST
CHECKED	LF	DRAWN	ST
DRAWN	ST	APPROVED	ST
CHECKED	CC	DATE	12/21/2021

STRUCTURAL STEEL
TWP. RD. OVER FED. AID INTERSTATE
F.A.I. ROUTE 57 SEC. 15-22 HB-2
COLES COUNTY
STATION 608+50

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*COLES, EFFINGHAM, FAYETTE

USER NAME = steffenk	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/12/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
015-0047

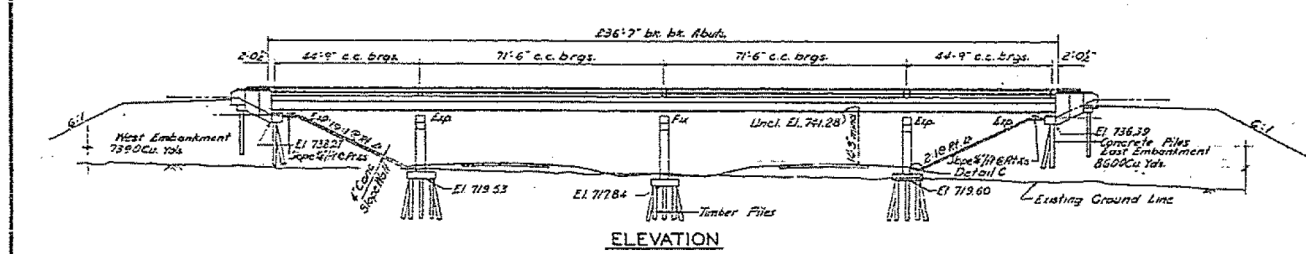
SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7 BRIDGE PAINTING 2021-4		29	26
CONTRACT NO. 74A44				
ILLINOIS FED. AID PROJECT				

M. M. No. 14, EL. 726.79 Top Cont.
 Men on W Side of Field Road
 on S. Fence Line 5'30" W. & Sta.
 42+00.
 No Existing Structure

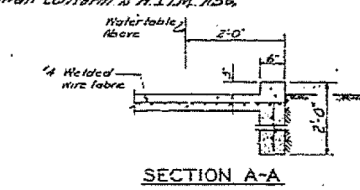
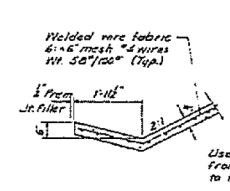
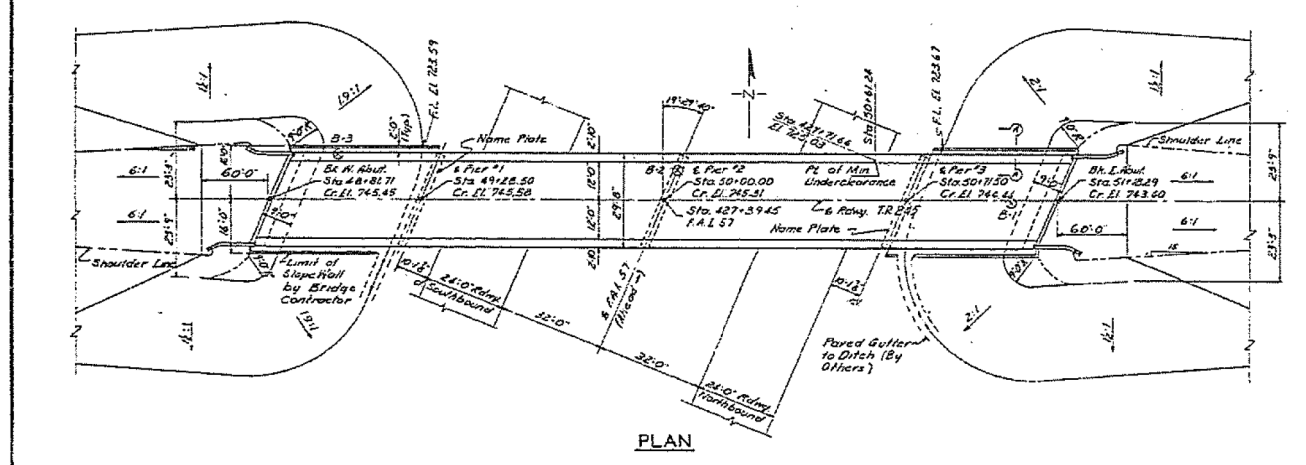
STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS

NO.	DATE	BY	REVISION
1	1/12/2021	Y.F.S.	Initial



GENERAL NOTES

Class X Concrete shall be used throughout. The concrete floor slabs shall be finished in accordance with Article 51.19 of the Standard Specifications, and shall be poured in one continuous operation between construction joints. All connections shall be riveted except as noted. Rivets shall be 3/4" dia and holes 13/16" dia except as noted. All holes for splices shall be punched 1/16" dia and reamed to proper size (13/16" dia in web and 15/16" dia in flange) with all stringers assembled in shop in proper position, with or without diaphragms in place. Leave assembled in shop for inspection. Anchor bolts shall be set before riveting diaphragms over supports. All rockers, bolsters, bearing plates, lead plates, pins and anchor bolts shall be fabricated and set in accordance with Article 51.19 of the Standard Specifications and are included in quantity of Structural Steel. Embankment shall be constructed to elevations shown in accordance with Section 16 of the Standard Specifications before abutment piles are driven. Holes for the concrete piles at each abutment shall be precast in accordance with Article 60.2(c) of the Standard Specifications. The Contractor shall drive two (2) test piles. One (1) timber test pile shall be driven as directed by the Engineer before ordering the remainder of the timber piles. One (1) concrete test pile shall be driven in a permanent location before ordering the remainder of the piles. All metal handrail and structural steel shall receive one shop coat of red lead paint after inspection and two field coats of aluminum paint. See Articles 56.1 and 56.3 inclusive of the Standard Specifications. Course Aggregate which is to be used in end parts must be absolutely free of chert, flint, limonite, lignite, and soft sandstone. When reference is made to the Standard Specifications, this includes the Supplemental Specifications, effective March 2, 1964. All structural steel shall conform to A.S.T.M. A36.

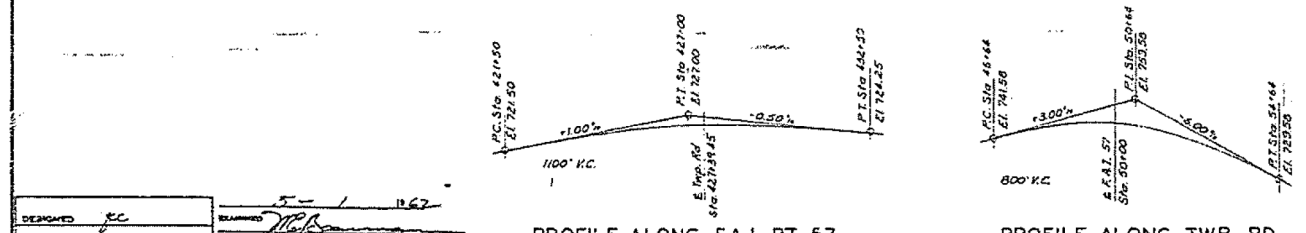


STATION 427+39.45
 SPLIT 19
 BY
 STATE OF ILLINOIS
 F.A.I. ROUTE 57-4(48)
 F.A. PROJ. I-57-4(A8)
 LOADING H15-312

LETTERING FOR NAME PLATE

TOTAL BILL OF MATERIAL

ITEM	SUPER	SUB	TOTAL
Class X Concrete	1998	1667	3665
Furnishing & Erecting Metal Handrail	300	-	300
Reinforcement Bars	Lbs. 33,380	13,020	47,200
Furnishing & Erecting Structural Steel	Lbs. 176,470	-	176,470
Name Plates	Each	2	2
Crested Piles	Lbs. Ft.	1,350	1,350
Test Piles (Timber)	Each	1	1
Concrete Piles	Lbs. Ft.	650	650
Test Piles (Concrete)	Each	1	1
Stone Wall, 4"	Sq. Yds.	413	413
Class A Excavation for Structures	Cu. Yds.	91	91
Protective Coat	Sq. Yds.	828	828



DESIGN STRESSES

$f_c = 1400$ P.S.I. (Super)
 $f_s = 20,000$ P.S.I. (Reinf.)
 $f_s = 20,000$ P.S.I. (Struct.)
 $v = 75$ P.S.I. (Pier Figs.)
 $n = 10$

GENERAL PLAN & ELEVATION
 TWP. RD. OVER FED. AID INTERSTATE
 PROJECT 1-57-4(48)182
 F.A.I. ROUTE 57 SEC. 15-21HB-1
 COLES COUNTY
 STATION 427+39.45
 HANSON, COLLINS & RICE
 CONSULTING ENGINEERS

DESIGNED	J.C.	1/12/2021
CHECKED	Y.F.S.	
DRAWN	D.J.M.	
CHECKED	K.C.	

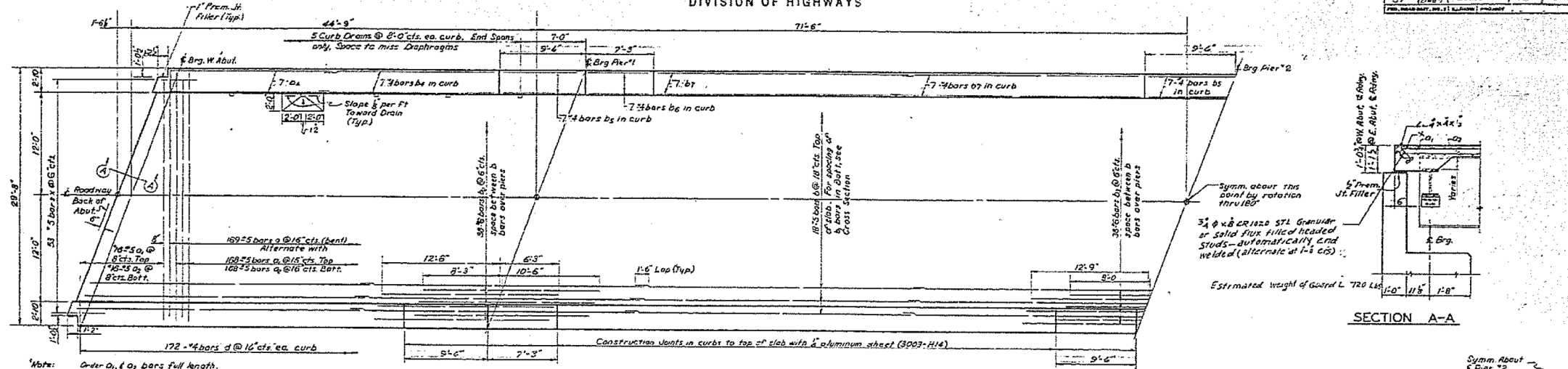
Rev. 3-13-69 J.P.J. Quiz of Cap. Piles from 300 to 600 p.c.
 Revision 3-6-69 added guard angles at each end of bridge deck. Structural Steel increased from 176,750 Lbs. to 176,470 Lbs. AND

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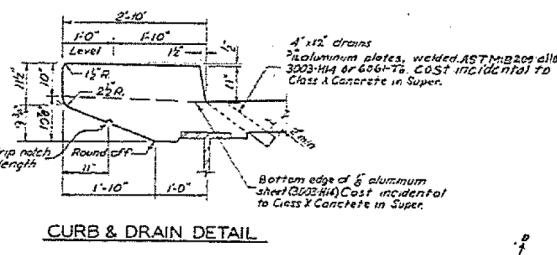
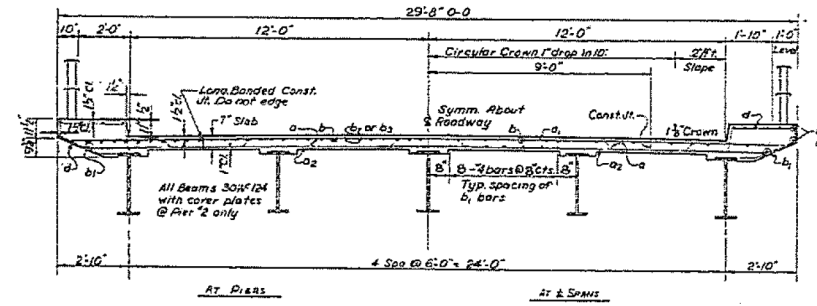
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS 015-0050	F.A.I. RTE. 57	SECTION D7 BRIDGE PAINTING 2021-4	COUNTY COLES	TOTAL SHEETS 29	SHEET NO. 27
SCALE:	SHEET 1 OF 3 SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 74A44

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

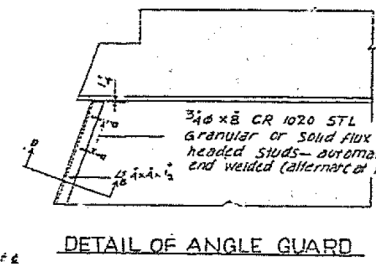
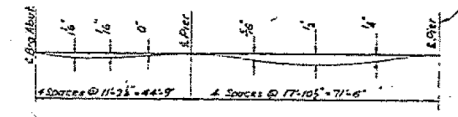
NO.	DATE	BY	REVISION
1	11/12/2021	F.F.S.	DESIGN
2		F.F.S.	CHECKED
3		F.F.S.	DRAWN
4		D.J.M.	CHECKED



SECTION A-A



DEAD LOAD DEFLECTION DIAGRAM



SUPERSTRUCTURE BILL OF MATERIAL

BAR	NO	SIZE	LENGTH	SHAPE		
a	184	#5	28'-0"			
a	184	#5	28'-0"			
b	144	#5	33'-9"			
b	306	#4	27'-6"			
ba	76	#5	18'-9"			
ba	36	#5	20'-9"			
ba	36	#4	19'-3"			
cb	36	#4	9'-3"			
cb	36	#4	7'-0"			
cb	36	#4	28'-2"			
d	364	#4	7'-0"			
e	108	#5	4'-1"			
				Class X Concrete	Cuypa	1990
				Reinforcement Bars	Lak	33380
				Formwork & Erecting		
				Structural Steel	Lbs.	176478
				Protective Coat	Sq.Yds.	828

SUPERSTRUCTURE
TWR RD. OVER FED. AID INTERSTATE
F.A.I. ROUTE 57 SEC. 15-21HB-1
COLES COUNTY
STATION 427+39.45

METHOD OF DETERMINING FILLET HEIGHTS "a"
After all Structural Steel has been erected, elevations of the top flanges of the beams shall be taken at intervals not to exceed 10ft. From these elevations subtract the increment of deflection for these points, determined from the D.L. deflection diagram. The elevations so obtained subtracted from the theoretical grade elevations, minus floor thickness, equals the fillet heights above top of beam.

DESIGNED	BY	EXAMINED	BY
CHECKED	Y.F.S.	PASSED	BY
DRAWN	F.F.S.	APPROVED	BY
CHECKED	D.J.M.		

REVISION 3. a. 11 added guard angles at each end of bridge deck. Structural Steel increased from 155,730 Lbs to 176,478 LBS. A.M.P.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
015-0050

USER NAME	DESIGNED	REVISION
stefhenmk	-	-
	DRAWN	REVISION
	-	-
PLOT SCALE = 100,0000' / in.	CHECKED	REVISION
	-	-
PLOT DATE = 1/12/2021	DATE	REVISION
	-	-

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7 BRIDGE PAINTING 2021-4		29	28
				CONTRACT NO. 74A44
ILLINOIS FED. AID PROJECT				

*COLES, EFFINGHAM, FAYETTE

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

DATE	BY	REVISION	TOTAL
1.15.21	JST	COLES	1.7
2.17.21	JST		7

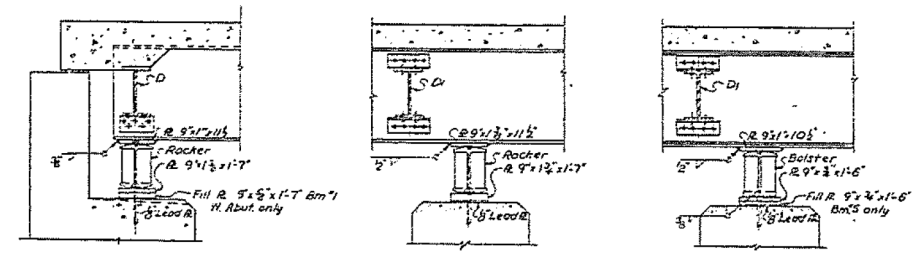
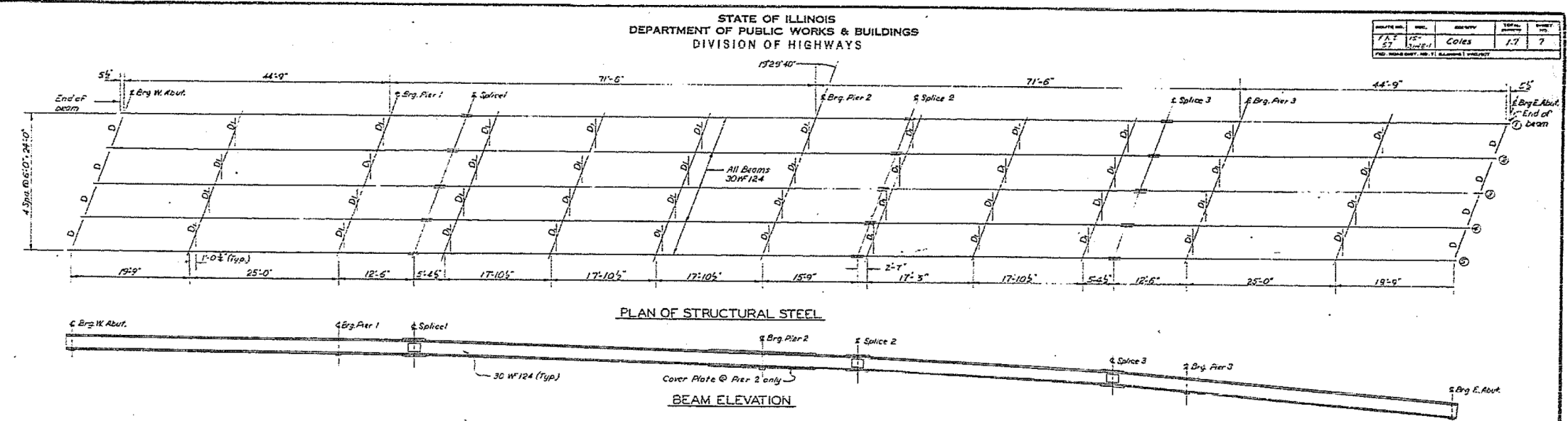
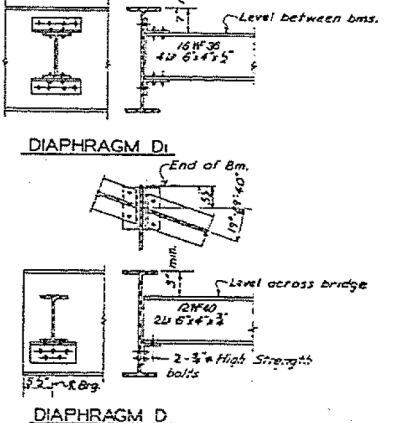
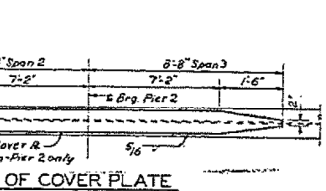
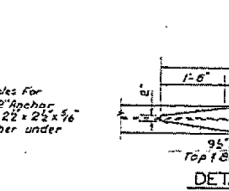
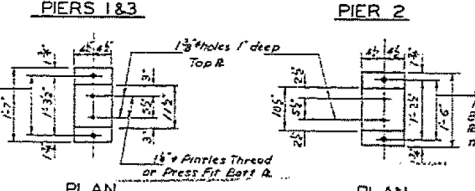
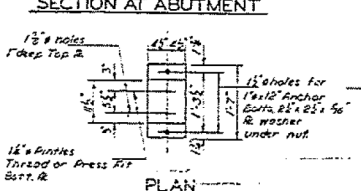


TABLE OF ELEVATIONS-TOP FLANGES OF BEAMS

Bm. W. Abut.	2 Brg. Splice 1	2 Brg. Pier 1	2 Brg. Splice 2	2 Brg. Pier 2	2 Brg. Splice 3	2 Brg. Pier 3	2 Brg. E. Abut.
1	742.88	742.81	742.80	742.87	742.89	742.92	742.85
2	742.85	742.80	742.81	742.87	742.89	742.92	742.88
3	742.87	742.93	742.92	742.87	742.89	742.87	742.90
4	742.83	742.89	742.91	742.87	742.89	742.92	742.87
5	742.83	742.81	742.83	742.89	742.86	742.96	742.93



DESIGNED	JCS
CHECKED	VFS
DRAWN	F.P.P.
CHECKED	M.P.D.

Note: Estimated weight of Brgs. = 5,400 Lbs.

STRUCTURAL STEEL
TWP. RD. OVER FED. AID INTERSTATE
F.A.I. ROUTE 57 SEC. 15-21HB-I
COLES COUNTY
STATION 427+39.45

MODEL: Default
FILE: 14444.dwg
PLOT: 14444.dwg
PROJECT: 14444
DRAWN: 14444
CHECKED: 14444
DATE: 1/12/2021

USER NAME = steffenk	DESIGNED -	REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS 015-0050	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISIONS			57	D7 BRIDGE PAINTING 2021-4		29	29
PLOT DATE = 1/12/2021	CHECKED -	REVISIONS							CONTRACT NO. 74A44
	DATE -	REVISIONS			SCALE:	SHEET 3	OF 3	SHEETS	STA. TO STA.