

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

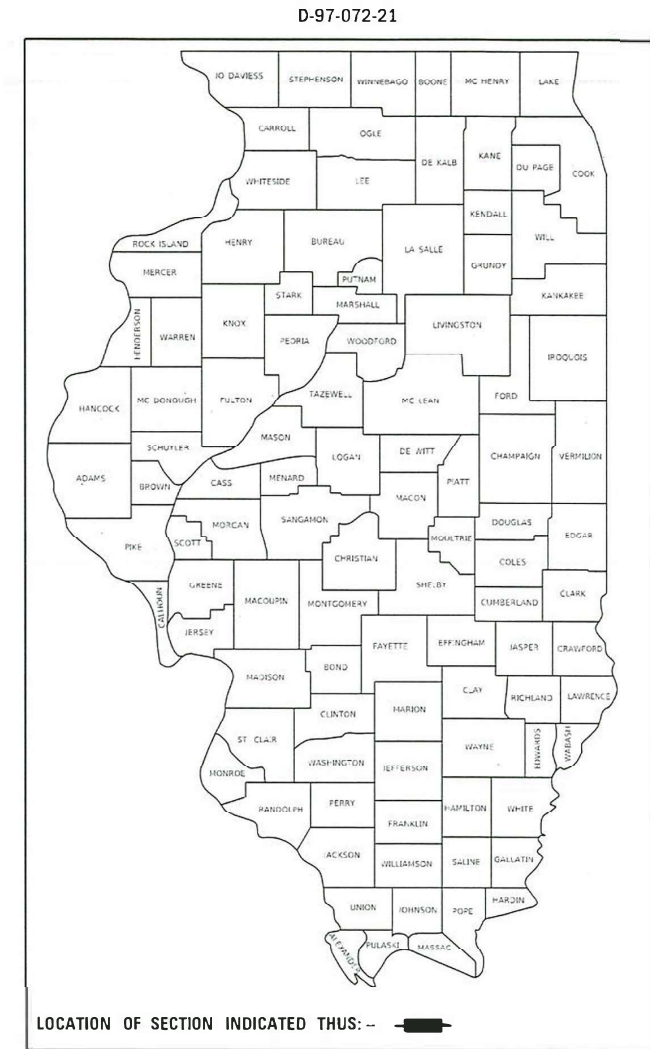
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	D7 BRIDGE PAINTING 2021-3	COLES	8	1
		ILLINOIS	CONTRACT NO. 74A41	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

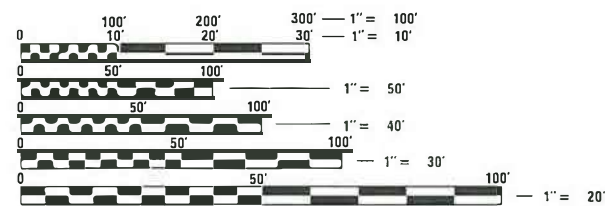
**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 91 (ILL 16)
SECTION D7 BRIDGE PAINTING 2021-3
PROJECT NHPP-BV5J(219)
BRIDGE PAINTING
COLES COUNTY

C-97-125-21



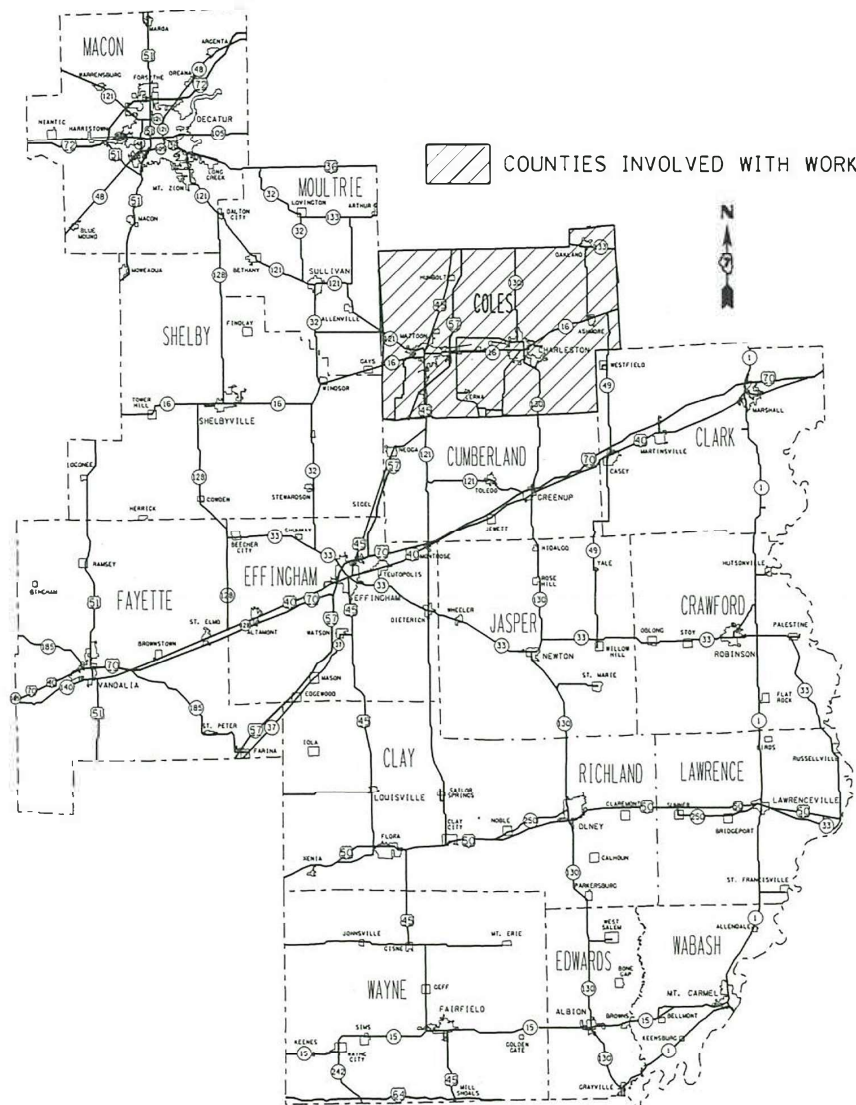
ADT = 15,700(2019)



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. 74A41



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED OCTOBER 15 20 20
Jeffrey P. Myrland
REGIONAL ENGINEER

December 4, 2020
Scott A. Elk
ENGINEER OF DESIGN AND ENVIRONMENT

December 4, 2020
James J. ...
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	TITLE SHEET
2	INDEX OF SHEETS, GENERAL NOTES, LOCATION DESCRIPTIONS
3	SUMMARY OF QUANTITIES
4	LOCATION MAP
5-8	EXISTING STRUCTURE PLANS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 8:

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS
- 701101-05 OFF-ROAD OPERATIONS, MULTI-LANE, 15' TO 24" FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTI-LANE, MORE THAN 15' AWAY
- 701400-10 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701422-10 LANE CLOSURE, FREEWAY/EXPRESSWAY, MULTILANE, FOR SPEEDS \geq 45 MPH TO 55 MPH
- 701901-08 TRAFFIC CONTROL DEVICES

GENERAL NOTES

THE PROPOSED PROJECT IS LOCATED AT 2 LOCATIONS ON ILLINOIS ROUTE 16 IN COLES COUNTY IN DISTRICT 7.

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

EASTERN ILLINOIS RAILROAD REQUIRES \$5 MILLION IN POLLUTION LIABILITY COVERAGE IN ADDITION TO THE RAILROAD PROTECTIVE LIABILITY INSURANCE COVERAGES INDICATED IN THE STANDARD SPECIFICATIONS. THE COST OF THIS ADDITIONAL COVERAGE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE LUMP SUM UNIT PRICE FOR RAILROAD PROTECTIVE LIABILITY INSURANCE.

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 SHALL BE PROTECTED FROM BEING PAINTED. ALL PAINT AND OVERSPRAY SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE.

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

LOCATION #1

BRIDGE # 1
 ROUTE: FAP 91
 MARKED: ILL 16
 SECTION: 51VBR
 STATION: 433+84.75
 STRUCTURE NUMBER: 015-0015

TYPE OF BRIDGES: Wide Flange I Beams-3 Spans - 6 Beams
 LOCATION: 1.0 Miles West of Charleston
 FEATURE CARRIED/SPANNED: Eastbound Illinois Route 16 over the Eastern Illinois 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, on all beams, bearings, and diaphragms, within 10' (measured along the beam) of the abutments and any expansion joints shall be cleaned by SSPC-SP10- Near White Metal Blast Cleaning. The outside and bottoms of both fascia beams, for the entire length of the beams, shall be cleaned in their entirety 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 #2

BRIDGE # 1
 ROUTE: FAP 91
 MARKED: ILL 16
 SECTION: 51VBR
 STATION: 433+84.75
 STRUCTURE NUMBER: 015-0016

TYPE OF BRIDGES: Wide Flange I Beams-3 Spans - 6 Beams
 LOCATION: 1.0 Miles West of Charleston
 FEATURE CARRIED/SPANNED: Westbound Illinois Route 16 over the Eastern Illinois 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, on all beams, bearings, and diaphragms, within 10' (measured along the beam) of the abutments and any expansion joints shall be cleaned by SSPC-SP10- Near White Metal Blast Cleaning. The outside and bottoms of both fascia beams, for the entire length of the beams, shall be cleaned in their entirety 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.

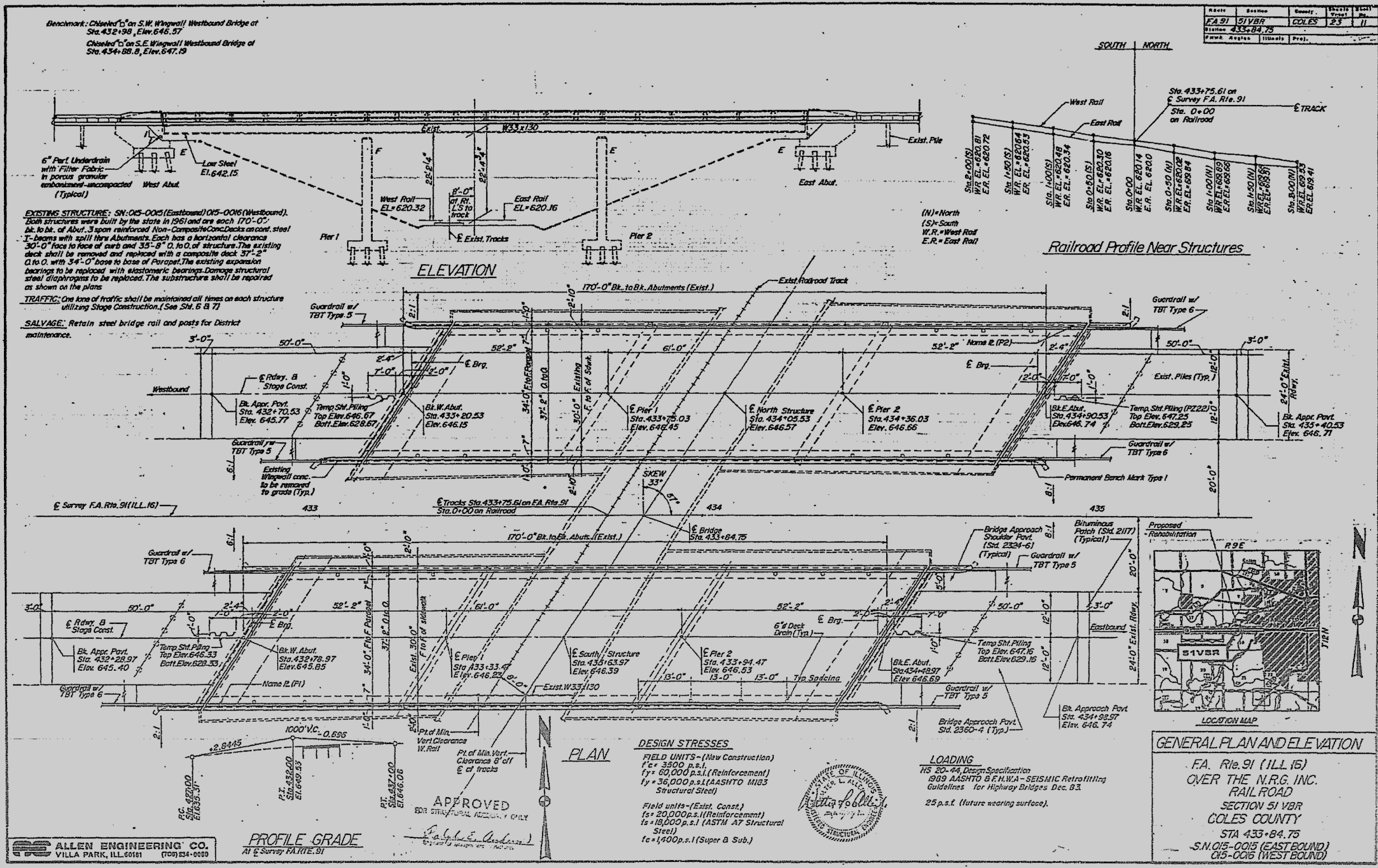
Two air monitors will be required at this location.

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS AND
 GENERAL NOTES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	D7 BRIDGE PAINTING 2021-3	COLES	8	2
			CONTRACT NO. 74A41	
		ILLINOIS	FED. AID PROJECT	



Benchmark: Chisled to an S.W. Wingwall Westbound Bridge at Sta. 432+98, Elev. 646.57
 Chisled to an S.E. Wingwall Westbound Bridge at Sta. 434+88.8, Elev. 647.19

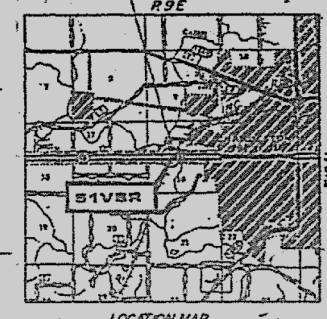
Route	Section	County	Sheet	Total
FA 91	51VBR	COLES	23	11
Station 433+84.75				
Drawn	Asst. Eng.	Illustrator	Proj.	

EXISTING STRUCTURE: SN 015-0015 (Eastbound) 015-0016 (Westbound). Both structures were built by the state in 1961 and are each 170'-0" bk. to bk. of Abut. 3 open reinforced Non-Compressive Conc. Decks on cast steel T-beams with spill thru Abutments. Each has a horizontal clearance 30'-0" face to face of curb and 35'-8" O. to O. of structure. The existing deck shall be removed and replaced with a composite deck 37'-2" O. to O. with 3'-0" base to base of Parapet. The existing expansion bearings to be replaced with elastomeric bearings. Damage structural steel diaphragms to be replaced. The substructure shall be repaired as shown on the plans.

TRAFFIC: One lane of traffic shall be maintained all times on each structure utilizing Stage Construction. (See Sht. 6 & 7)

SALVAGE: Retain steel bridge rail and posts for District maintenance.

Railroad Profile Near Structures



GENERAL PLAN AND ELEVATION
 F.A. Rte. 91 (ILL. 16)
 OVER THE N.R.G. INC.
 RAILROAD
 SECTION 51 VBR
 COLES COUNTY
 STA 433+84.75
 S.N. 015-0015 (EAST BOUND)
 015-0016 (WEST BOUND)

DESIGN STRESSES
 FIELD UNITS - (New Construction)
 f'c = 3900 p.s.i.
 f'y = 60,000 p.s.i. (Reinforcement)
 f'y = 36,000 p.s.i. (AASHTO M183 Structural Steel)
 Field units - (Exist. Const.)
 f's = 20,000 p.s.i. (Reinforcement)
 f's = 18,000 p.s.i. (ASTM A7 Structural Steel)
 f'c = 1400 p.s.i. (Super & Sub.)

LOADING
 HS 20-44, Design Specification
 1989 AASHTO & F.H.W.A - SEISMIC Retrofitting Guidelines for Highway Bridges Dec. 83.
 25 p.s.f. (future wearing surface).

ALLEN ENGINEERING CO.
 VILLA PARK, ILL. 60161 (708) 234-0000

PROFILE GRADE
 At Survey F.A. RTE. 91

APPROVED
 FOR STRUCTURAL DESIGN ONLY

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

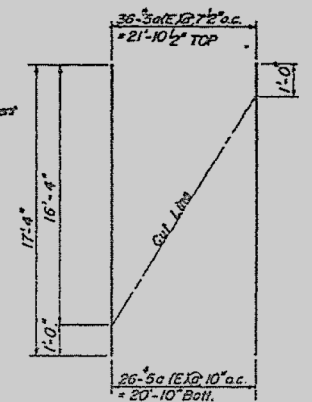
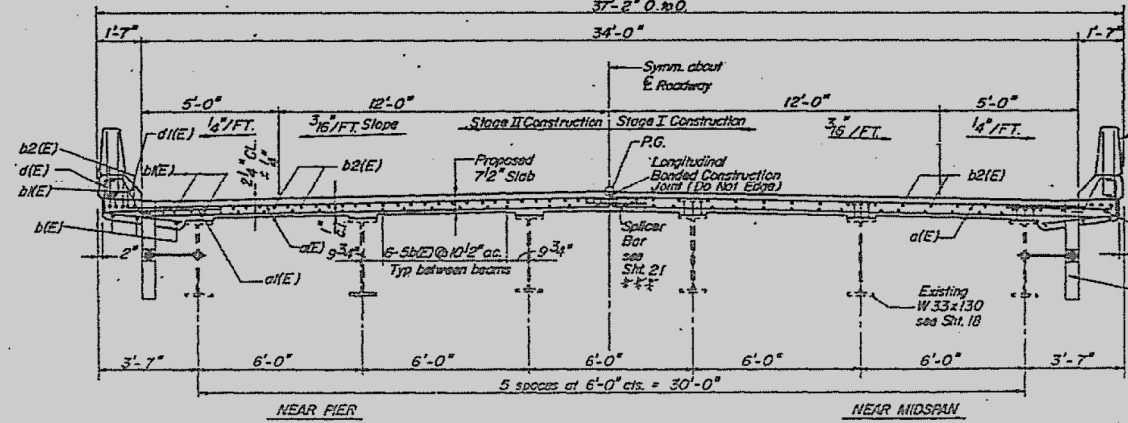
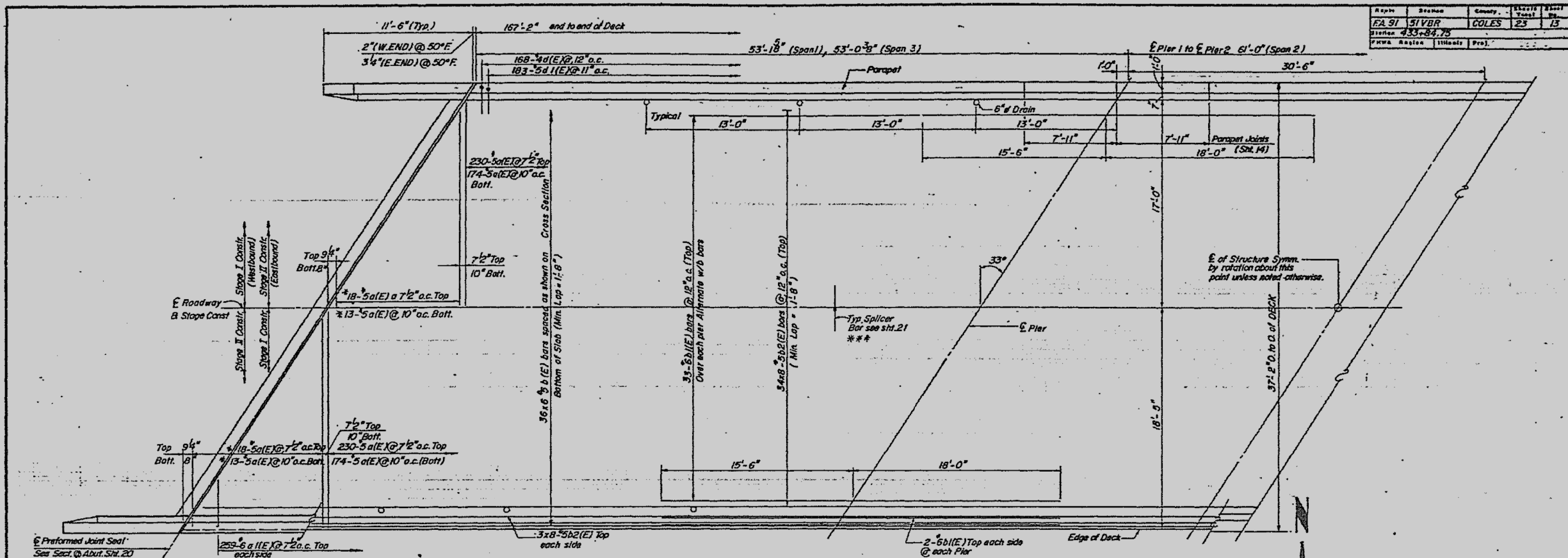
EXISTING STRUCTURE PLANS
 SN 015-0015 & SN 015-0016

USER NAME	DESIGNED	REVISION
= stefenmk	-	-
	DRAWN	REVISION
	-	-
PLOT SCALE = 100,0000' / in.	CHECKED	REVISION
	-	-
PLOT DATE = 10/16/2020	DATE	REVISION
	-	-

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	D7 BRIDGE PAINTING 2021-3	COLES	8	5
CONTRACT NO. 74A41				
ILLINOIS FED. AID PROJECT				

Route	Section	County	Sheet	Sheet
FA 91	51VBR	COLES	23	13
Station 433+84.75				
Iowa Bridge (Illinois) Proj.				



- Notes:
1. Bars indicated thus: 30x6-5 etc. indicates 30 lines of bars with 6 lengths per line.
 2. Reinforcement designated (E) will be epoxy coated.
 3. For Bill of Material see sht. 16.

DECK PLAN & SECTION

FA. Rte. 91 (ILL 16)
OVER THE N.R.G. INC.
RAILROAD.
SECTION 51 VBR
COLES COUNTY
STA. 433+84.75
S.N. 015-0015 (EAST BOUND)
015-0016 (WEST BOUND)

MODEL: Default
FILE: Model: P:\pub\baronm.dwg
PROJECT: 74441\CADD\B\CAD\Sheet\074441-1-18.dwg

USER NAME = steffenk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/16/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
SN 015-0015 & SN 015-0016

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	D7 BRIDGE PAINTING 2021-3	COLES	8	6
CONTRACT NO. 74441				
ILLINOIS FED. AID PROJECT				

