# STATE OF ILLINOIS

# **PROPOSED**

# **HIGHWAY PLANS**

F.A.I. ROUTE 74 (I-74) **SECTION D5 BRIDGE PAINTING 2019–1** PROJECT NHPP-XUJN(924) **BRIDGE PAINTING DEWITT COUNTY** 

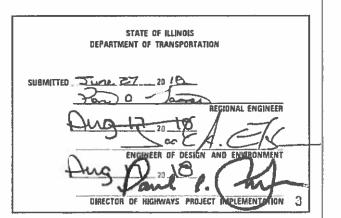
C-95-061-18

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

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

PROJECT ENGINEER: JASON STULTS PROJECT MANAGER: MICHAEL A. LeROY

(217) 465-4181 CONTRACT NO. 70D23



LOCATION OF SECTION INDICATED THUS: - -

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV. 7/27/18

**DEPARTMENT OF TRANSPORTATION** 

# **CURRENT ADT**

LOC. #1. & #2

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 6

LOC. #3 & #4

ADT (2018) 1-74 22,200/US 150 1750

LOC, #1

LOC. #2

0

0

I-74 22,200/FAS 2495 700

### TRAFFIC DATA LOCATIONS

= S.N. 020-0026 - FAI 74(EB) OVER US 150 & NORFOLK SOUTHERN = S.N. 020-0027 - FAI 74(WB) OVER US 150 & NORFOLK SOUTHERN

LOC. #3 = S.N. 020-0028 - FAI 74(EB) OVER F.A.S 2495 (CH22) = S.N. 020-0029 - FA! 74(WB) OVER F.A.S. 2495 (CH22) LOC. #4

FOR LOCATION MAPS, SEE SHEETS 3-5

D-95-036-18

# **INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, & GENERAL NOTES
3-5	DESCRIPTIONS & MAPS FOR LOCATIONS 1-4
6	SUMMARY OF QUANTITIES
7-13	LOCATION #1 & #2 STRUCTURE DETAILS
14-19	LOCATION #3 & #4 STRUCTURE DETAILS

# **HIGHWAY STANDARDS**

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701201-04	LANE CLOSURE, 2L,2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701316-12	LANE CLOSURE, 2L,2W, BRIDGE REPAIR, FOR SPEEDS ≥ 45 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS FOR SPEEDS >45 MPH
701901-07	TRAFFIC CONTROL DEVICES

# **GENERAL NOTES**

### G N -100

ENGLISH UNITS OF MEASURE SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

### G.N.-100A

ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

### 3N 105.07C

EXISTING STATE-OWNED AND MAINTAINED UNDERGROUND UTILITY FACILITIES EXIST WITHIN THE ROW. THE DEPARTMENT IS NOT A MEMBER OF JULIE AND DOES NOT LOCATE IT'S OWN FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE AT THEIR OWN EXPENSE FOR SECURING AN APPROVED LOCATING FIRM TO LOCATE ALL EXISTING IDOT UNDERGROUND FACILITIES PRIOR TO COMMENCING ANY EXCAVATION, PER THE REQUIREMENTS OF ARTICLE 803 OF THE STANDARD SPECIFICATIONS. UTILITY LOCATES MAY ALSO BE REQUIRED OUTSIDE THE PROJECT LIMITS, SUCH AS FOR TRAFFIC CONTROL SIGNING AND OTHER ITEMS. THE CONTRACTOR MAY OBTAIN, ON REQUEST, PLANS OF EXISTING ELECTRICAL FACILITIES FROM THE DEPARTMENT. FOR FURTHER INFORMATION, THE CONTRACTOR MAY CONTACT THE DISTRICT TRAFFIC OPERATIONS ENGINEER, GARY SIMS, AT 217-251-4859.

THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR LOCATING AND PROVIDING PROTECTION FOR FACILITIES DURING ALL PHASES OF CONSTRUCTION. IF, AT ANY TIME, THE FACILITIES ARE DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DEPARTMENT AND MAKE ALL NECESSARY ARRANGEMENTS FOR REPAIR TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

### G N -501A

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL FOLLOW THE GUIDE BRIDGE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

### G.N.-506 (SPL.)

ALL FINAL SURFACES OF THE BEAMS SHALL BE PAINTED GRAY (MUNSELL COLOR STANDARD - 5B 7/1) EXCEPT THE EXTERIOR SURFACES OF THE EXTERIOR BEAMS WHICH SHALL BE PAINTED WITH EITHER INTERSTATE GREEN (MUNSELL COLOR STANDARD 7.5G 4/8) OR REDDISH BROWN (MUNSELL COLOR STANDARD 2.5YR 3/4) AS SPECIFIED UNDER THE DESCRIPTION FOR EACH STRUCTURE.

ONLY STRUCTURAL STEEL AND OTHER DESIGNATED SURFACES SHALL BE PAINTED. ALL OTHER SURFACES SHALL BE PROTECTED FROM CONTRACTORS BLASTING AND PAINTING OPERATIONS. ANY AREAS DAMAGED BY BLASTING OR OVERSPRAY WILL BE REMOVED OR REPAIRED AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

CARE SHALL BE TAKEN NOT TO DAMAGE RUBBER BEARING OR JOINT COMPONENTS DURING BLASTING AND CLEANING OPERATIONS. ANY DAMAGE TO THESE COMPONENTS SHALL BE REPAIRED AT CONTRACTORS EXPENSE.

THE SSPC-QP1 AND QP2 PAINTING CONTRACTOR CERTIFICATIONS WILL BE REQUIRED FOR THIS CONTRACT.

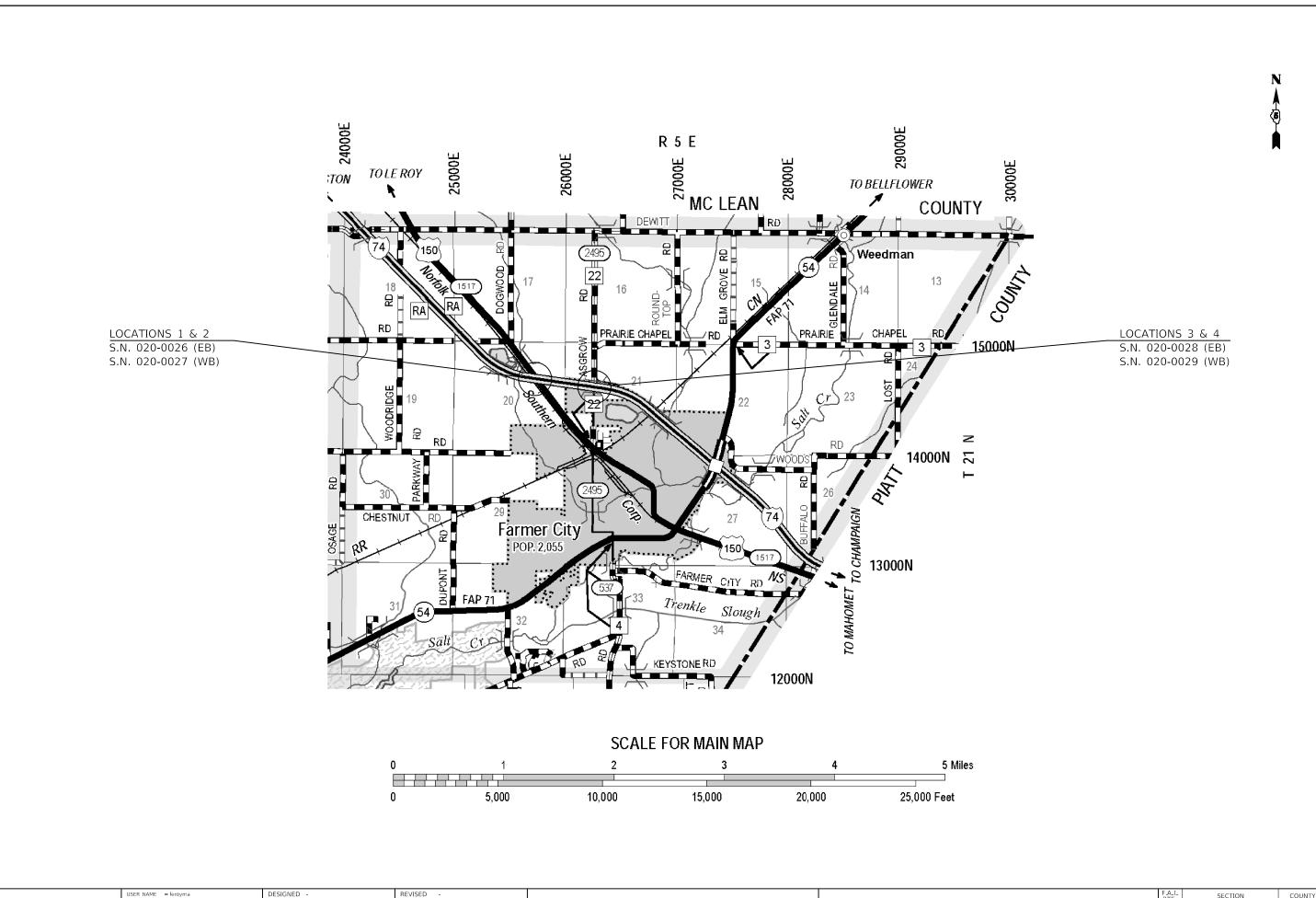
SCALE:

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

2 YEAR PAINT WARRANTY REQUIRED FOR STRUCTURES NO.1, NO. 2, NO.3, AND NO. 4

USER NAME = leroyma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 6/27/2018	DATE -	REVISED -

	INDEX OF SHEETS, HIGHWAY STANDARDS, & GENERAL NOTES				F.A.I. RTE	SEC <sup>-</sup>	ΓΙΟΝ		COUNTY	TOTAL SHEETS			
					74	1	ŧ		DEWITT	19	2		
& GENERAL NOTES					* D5 BRIDGE PAINTING 2019-1 CONTRACT NO. 70D			DD23					
	SHEET 1	OF	1	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		



MODEL: \$MODELNAME\$

SCALE:

LOCATION MAP

SHEET 1 OF 3 SHEETS STA. TO STA.

# LOCATION #1

LOCATION #2

DESCRIPTION: FAI 74 (EB) OVER US 150 & NORFOLK SOUTHERN, M.P. 157.2

COUNTY: DEWITT
ROUTE: F.A.I. 74
MARKED ROUTE: I-74
SECTION: 20-IHVB
STRUCTURE NO.: 020-0026

TYPE OF STRUCTURE: STEEL PLATE GIRDERS

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLASTNG SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GRAY, MUNSELL NO. 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR ALL EXTERIOR AND BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE INTERSTATE GREEN (MUNSELL COLOR STANDARD 7.5G 4/8).

A MINIMUM OF FOUR (4) HIGH VOLUME AIR MONITORS WILL BE REQUIRED TO MONITOR AIR QUALITY DURING DUST PRODUCING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL FOLLOW THE GUIDE BRIDGE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

NOTE: DECK DRAINS TO BE PAINTED AT NO ADDITIONAL COST.

DESCRIPTION: FAI 74 (WB) OVER US 150 & NORFOLK SOUTHERN, M.P. 157.2

COUNTY: DEWITT
ROUTE: F.A.I. 74
MARKED ROUTE: I-74
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TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

NOTE: DECK DRAINS TO BE PAINTED AT NO ADDITIONAL COST.

USER NAME = leroyma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 6/27/2018	DATE -	REVISED -

SCALE:

# LOCATION #3

LOCATION #4

DESCRIPTION: FAI 74 (EB) OVER FAS 2495, m.p. 157.7 - NORTH OF FARMER CITY.

COUNTY: DEWITT
ROUTE: F.A.I. 74
MARKED ROUTE: I-74
SECTION: 20-IHB
STRUCTURE NO.: 020-0028

TYPE OF STRUCTURE: CONTINUOUS STEEL

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLASTNG SSPC-SP10.

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A MINIMUM OF TWO (2) HIGH VOLUME AIR MONITORS WILL BE REQUIRED TO MONITOR AIR QUALITY DURING DUST PRODUCING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL FOLLOW THE GUIDE BRIDGE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

NOTE: DECK DRAINS TO BE PAINTED AT NO ADDITIONAL COST.

DESCRIPTION: FAI 74 (WB) OVER FAS 2495, M.P. 157.7 – NORTH OF FARMER CITY.

COUNTY: DEWITT
ROUTE: F.A.I. 74
MARKED ROUTE: I-74
SECTION: 20-IHB
STRUCTURE NO.: 020-0029

TYPE OF STRUCTURE: CONTINUOUS STEEL

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLASTNG SSPC-SP10.

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	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/27/2018	DATE -	REVISED -

SCALE:

# **SUMMARY OF QUANTITIES**

LOCATION OF WORK: LOC. #1 LOC. #2 LOC. #3 LOC. #4 F.A.I. 74 F.A.I. 74 F.A.I. 74 F.A.I. 74 S.N. 020-0026 S.N. 020-0027 S.N. 020-0028 S.N. 020-0029 DEWITT CO. DEWITT CO. DEWITT CO. DEWITT CO. RURAL RURAL RURAL RURAL 20 % STATE 20 % STATE 20 % STATE 20 % STATE 80 % federal 80 % federal 80 % federal 80 % federal CONSTRUCTION TYPE CODE: 0047 0047

TOTAL

SCALE:

0047

			IOIAL				
CODE NO.	DESCRIPTION	UNIT	QUANTITY	QUANT I TY	QUANTITY	QUANTITY	QUANTITY
67100100	MODILLIZATION	L GUIM	1.0	0.25	0.25	0.25	0.25
6/100100	MOBILIZATION	L SUM	1.0	0.25	0.25	0.25	0.25
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L.SUM	1.0	0.25	0.25	0.25	0.25
X5067501	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 1	L SUM	1.0	1.0			
X5067502	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 2	L . SUM	1.0		1.0		
X5067503	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 3	L.SUM	1.0			1.0	
X5067504	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 4	L.SUM	1.0				1.0
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1.0	1.0			
Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	L.SUM	1.0		1.0		
Z0007103	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 3	L.SUM	1.0			1.0	
Z0007104	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 4	L.SUM	1.0				1.0
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L.SUM	1.0	1.0			
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L.SUM	1.0		1.0		
Z0010503	CLEANING AND PAINTING STEEL BRIDGE NO. 3	L.SUM	1.0			1.0	
Z0010504	CLEANING AND PAINTING STEEL BRIDGE NO. 4	L.SUM	1.0				1.0

USER NAME = leroyma	DESIGNED -	REVISED -
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PLOT DATE = 6/28/2018	DATE -	REVISED -

	SUMMARY OF QUANTITIES				F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
					74 * DEW		DEWITT	19	6			
					* D5	BRIDGE PAINTING 2019-1	CONTRACT	NO. 70	D23			
	SHEET	1	OF	1	SHEETS	STA.	TO STA.	ILLINOIS FED. AI		ID PROJECT		
	0				0	0.7.4			IEEINOIS TEB. A	ID I NOILCI		_

### FOR INFORMATION ONLY S.N. 020-0026 (EB) & S.N. 020-0027 (WB) BM. RR Spike in S.E. Face, Power Pole on East Side US 150 1500'S of & F.A. I. Rte 74 Elev. 732.80 25:0" 10 Bk. of Abut. 101AL SHEET NO. STATE OF ILLINOIS 10-1 De Wit+ 38 DEPARTMENT OF PUBLIC WORKS & BUILDINGS DIVISION OF HIGHWAYS, This Portion of End of SEC. AT PIERS DETAIL "A" Embankment bockfill GENERAL NOTES Approach Stob 2-1'8:3'6' Anchor Bolts in and post by Bridge Contractor Berm Elev 754.80 by Bridge Const. Berm Elev. 754.50 The concrete rail section above the mandalory construction joint at the top of \_ Metal Guardrail the slab shall be constructed of Class X Concrete, except the aggregates shall conform to APPROACH PILE DATA (by others) the requirements of Hondrail Concrete. Type : Creosoted Creosored 22:0° 25:0° Concrete Piles Regid Length : East~ 29+ orrics 250° Appr. Piles Diaphraym connections may be adopted to shop welding subject to approval by the Engine -El. 729.1 Notural Ground West-29ff at Pt L's Rivels 34 " p . open holes 1316 & unless otherwise noted. of Rt Co All reinforcement bars shall be lapped Ed Diometers unless otherwise Total No. Regid. : 28 72G.88 EE 72G.66 W.B. Elev 723.92 E.B. Creos Piles 5th. 745 +20 Slope Wall shall be reinforced with welded wire fabric 6'x 6" mesh, Sta. 749 + 40£ Remove hotched oreo 726.66 WB. to Eleu 725 t under E.B. Lane 5to. 746+10 E.Bd. 723.8/ W.B. -Sto. 748+45E weighing, 58# per 100 Sq Ft. Anchor botts shall be set before riveting diaphrogms over supports 723854 & Remove hotched area to Elev. 721 tunder Creas Piles both cones. Transversely, removal should Transverse extent of removal The exposed surfaces of the expansion guard shall be given two shap should be from E of Median to ELEVATION be from mid to mid of side slopes STATION 746+30.29 coats of red lead point, the contact surfaces shall be given one coot of red BUILT 19 BY mid-side slope. lead point. Anchor stude shall not be pointed. STATE OF ILLINOIS Note: Remove and replace Top 18 of natural sail Expansion quards are included in the quantity of Structural Steel F.A.I. AT. 74 ~ SEC. 20-1HVB under the East cones and Top 16' under the Estimated weight 6360Lbs. commore waght 6360chs. The Contractor shall drive two untreated test piles one in the vicinity of Pier I of the U.B. Structure and one near Pier 3 of the E.B. Str.; One concrete test pile in a permanent location at the East Abutment W.B. Str. and one at the West Abut. E.B. Str., as directed by the Engineer before ordering the remainder of piles. Concrete piles shall be driven in holes precored through the embackment in accordance with Art. 513.09(c) of the Standard Specifications. F.A. PROJI-IG-74-5(46) West cone of the East bound lone. Replace LOADING HSZOF ALT. unsuitable material with granular material 2" obove existing woter level. Elevs. Shown ore V.C.L. = 1800 of top of 1/2 [:11 V.C. DATA ~ FAI Rt. 74 Except as otherwise provided, all structural steel shall recieve one shop coal of red lead point and two field coals of point. See Special Provisions. The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments. Pt. of min Field welding of construction occessories to the bottom flonges or PROFILE -581 RT39 Vert. Cl. for a distance of one fourth of the span each way from per supports on the flanges of beams or girdles will not be permitted field welding in other areas will be permitted only when approved by the engineer. BK. West Abuil EPier #1 Ek East Abut. Sta. 744+77.16 Sto. 745+ 96.70 Elev. 761.37 5to 747+56.12 Sto. 743+45.85 Elev. 761.16 Elev. 761.60 TOTAL BILL OF MATERIAL Coring It Boring #77. E West Ed. Lanes Item Unit Super Sub 510.741+4138 FAI FIR 14 550.178-18.64 SBI FIR 59 Sto. 745+30.29 FAI Rte 74 Excovotion 5ta 14910+9151 PEERR. Sto 749+40 Class A Excavation for Structures Class X Concrete Sto 748+45 ESUrvey-FAI.Rtc. 74 Structural Steel Boring 4 Aluminum Roiling Reinforcement Bors E FICT S St. 742 + 4997 Electrons Bk. West Abut Creosoted Piles (to 20 Ft.) Creosoted Piles (20 1 to 38 Ft 745+4055 ° 1cv. 751.57 749 + 3768 Elev 16143 Boring\*12-Boring"3. Sta. 745+ 20 Boring\*5-& East Bd. Lanes Test Pile Timber Each - Sta 746+10 Nome Plotes Eoch A Slope Wall (4) 3740 50 105 ridge Seat Sealant Concrete Piles Mid Store LINF 1016 Post 142 Test Pile Concrete Eq. Pt of Sta. 14387+49 Eo. 2688 --66.0 Stud Shear Connectors Note: Except as otherwise provided, all structural steel 5:0. PLAN Shall receive one shap cont of red lead paint and two field coats of Print Special Provisions t. Includes excoverion for slove most 2. 25 % applied at each abutment. Slope 2/ to droin Edge of Deck-DESIGN STRESSES PROJ.II.G. 74-5(46)/59 4 fo = 1800 psi ~ Deck Slab GENERAL PLAN É ELEVATION 4 1968 fo = 1400 psi ~ Sub, Curb & Per. fs = 20,000 psi ~ Reinf. OVER PLE. RR AND SBI STE. 39 DESIGNED Sam F. Mactonia FAL BIE 74 SECTION 20-1HVB A: 20,000 ps/ ~ Struct. CHECKED S. Y. Khay , at PASSED Ve . 75 psi - Ftys. DEWITT COUNTY 6 SEM R. Ferrango 10:10 STATION 746+30.29 Allowable Fut W.S 25 " Sp. Ft. SECTION A-B SECTION A-A CHECKED A.Y. Whayyat Allowable & A . 41000 for Non Comp. ---- Proposed Structure : 4/1200 for Comp. LOCATION PLAN OGDING HSED-44 & Alternate 3.7.69 Removed Earth Excavetion & Perous Granuler Rev 8/22/65 SY.K. Embankment Æ

 USER NAME
 = leroyma
 DESIGNED
 REVISED

 DRAWN
 REVISED

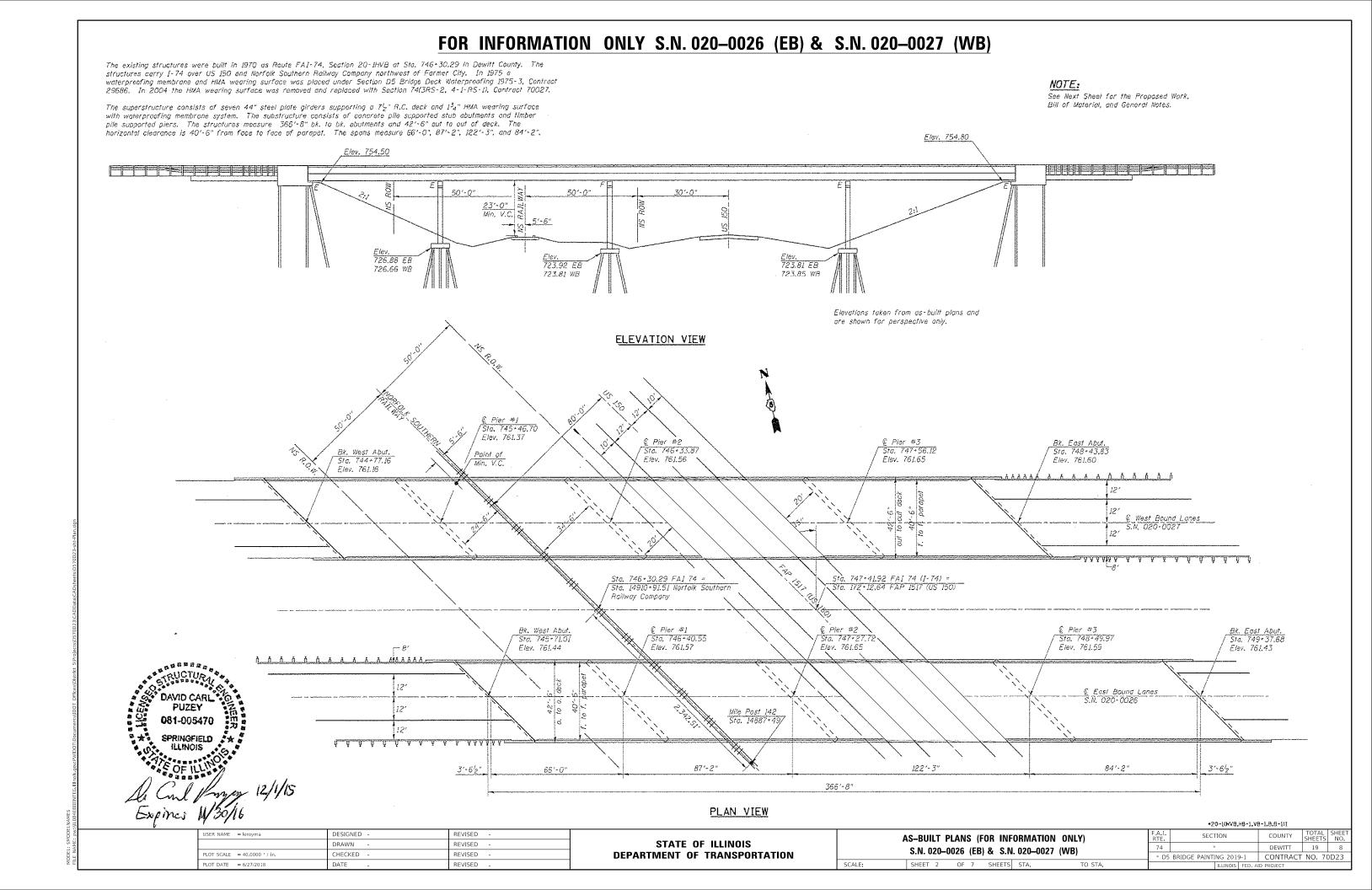
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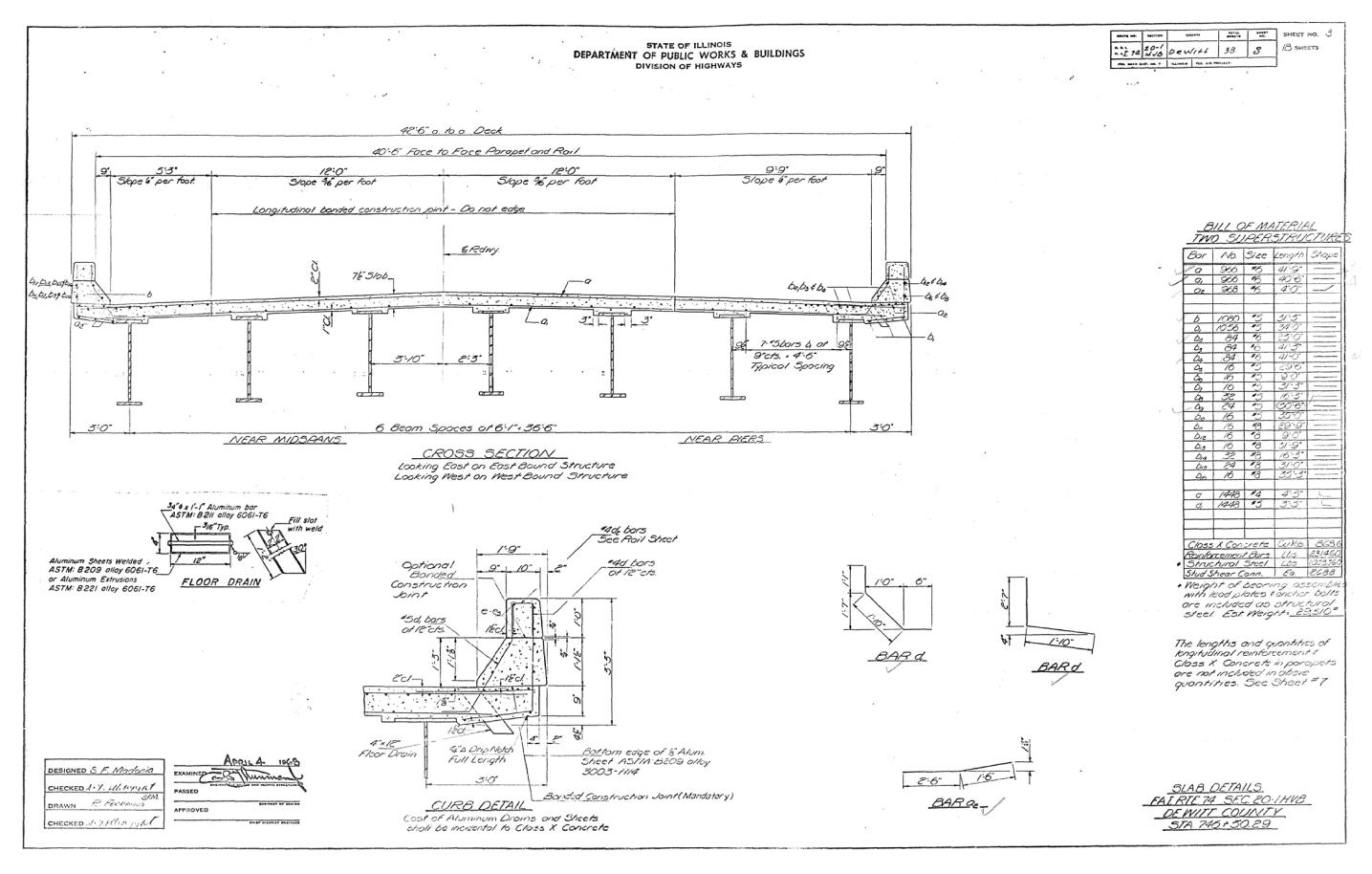
 PLOT DATE
 = 6/27/2018
 DATE
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS (FOR INFORMATION ONLY)

S.N. 020-0026 (EB) & S.N. 020-0027 (WB)

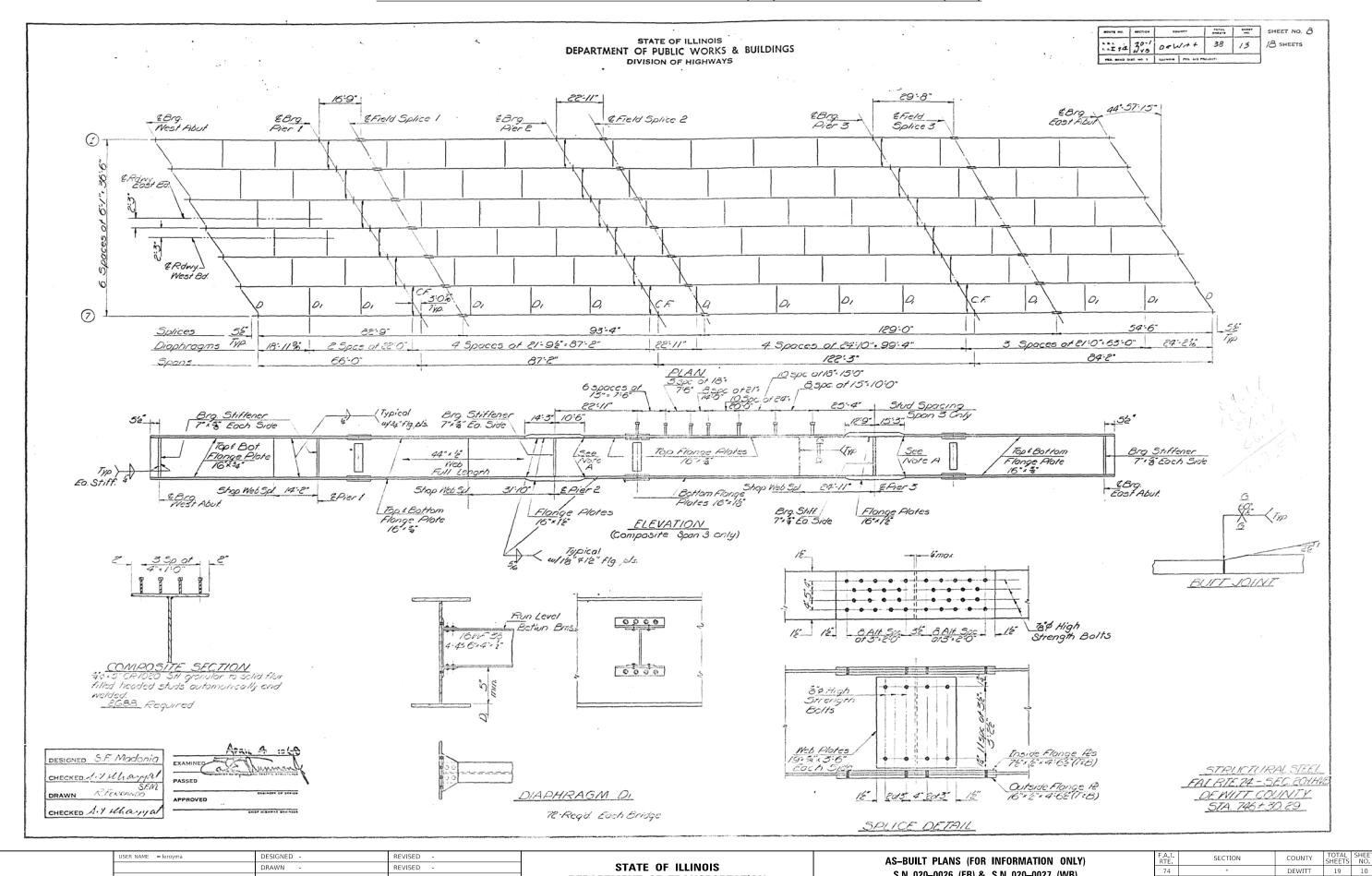




MODEL: \$MODELNAME\$

AS-BUILT PLANS (FOR INFORMATION ONLY)
S.N. 020-0026 (EB) & S.N. 020-0027 (WB)

| SHEET 3 OF 7 SHEETS STA. TO



**DEPARTMENT OF TRANSPORTATION** 

S.N. 020-0026 (EB) & S.N. 020-0027 (WB)

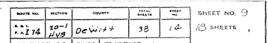
\* D5 BRIDGE PAINTING 2019-1 CONTRACT NO. 70D23

CHECKED

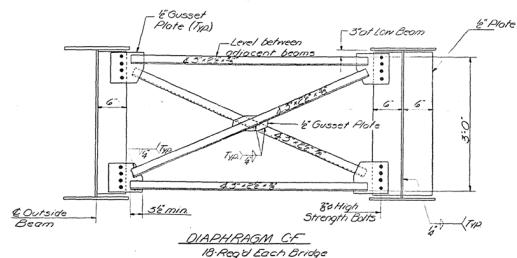
REVISED

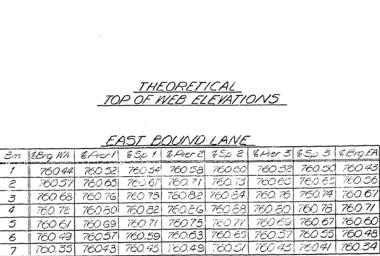






<u>End Bearing</u> Stiffener







END DIAPHRAGM-D 12-Required Each Bridge

Level between Exterior beams.

EGOSET R Shop Bend

16WF40

# Stiffeners Use 7" 3" of Piers 243 \$7"x & of Pier I and Abuts Mill to Bear Cut I" Typ. Top & Bottom Each Bearing Stiffener BEARING STIFFENER

DESIGNED S.F. Modonia CHECKED A.Y. Whayyat R Ferrando St. CHECKED S.Y. Mayyat

# WEST BOUND LANE

WEST ESSIVE ETTIVE											
8m	EBro NA	&Pier !	850.1	EPICT2	E 50 2	EPIER5	& Sp. 3	&Brg.EA.			
/	760.04	760.21	760 25	760 <i>5</i> 3	760.42	760.47	750.48	760.48			
2	760.19	76036	760 40	760.53	760.57	76062	760.63	760 63			
	760.32										
4	760.45	760.60	760.64	760.77	760.81	760.85	760.87	760.87			
5	760.40	76057	760.61	76074	760 78	760.83	76084	760.84			
6	760.30	760.47	160.51	760.64	750 68	760 75	160 74	760.74			
7	760.17	760.54	760 38	760 51	760.55	76060	780.61	760.61			

STRUCTURAL DETAILS FAI. RTE. 74 ~ SEC. 20-1HVB DE WIFT COUNTY 5TA. 746 +30.29

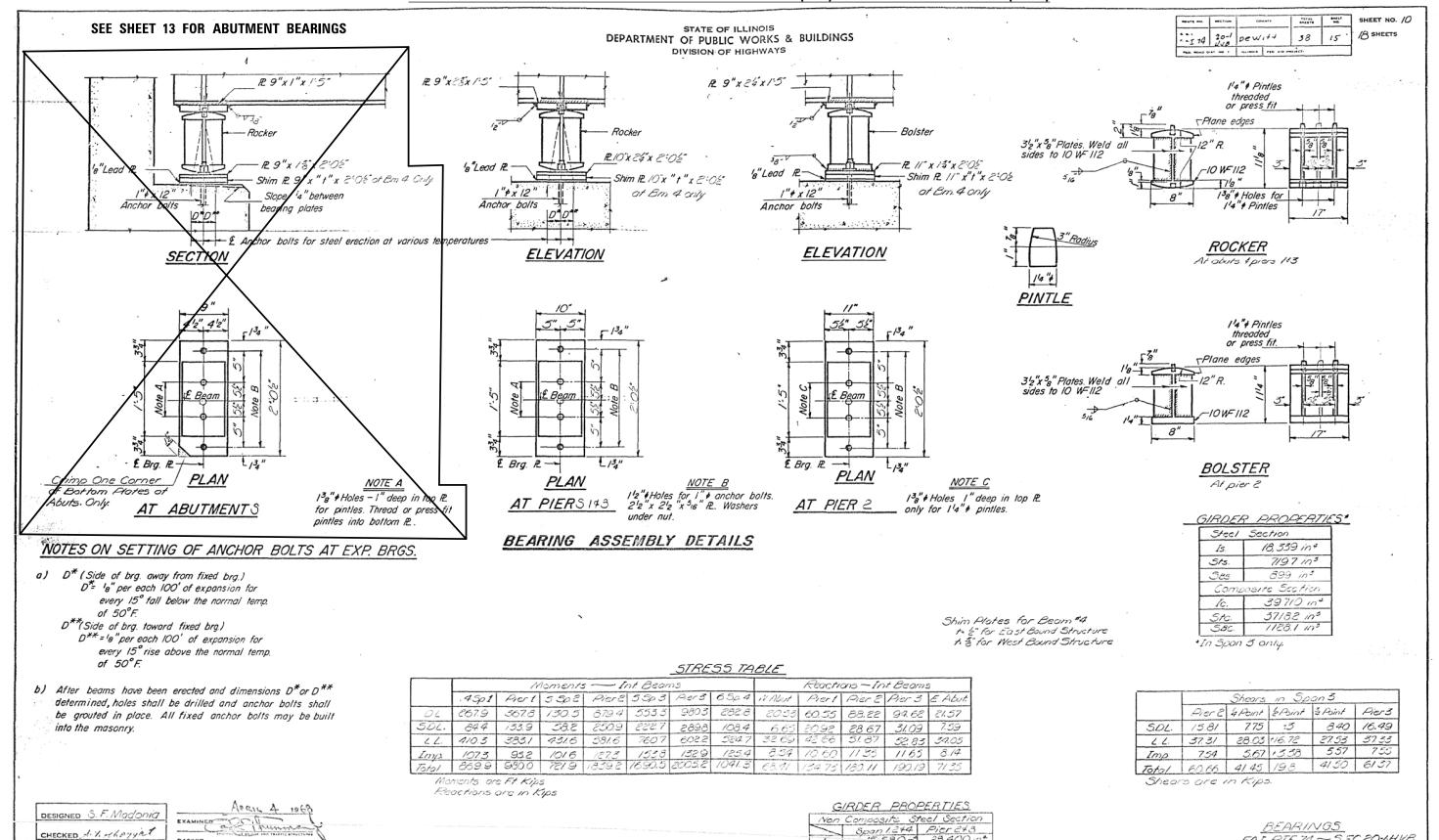
DEWITT 19 11

CONTRACT NO. 70D23

- 1	USER NAME = leroyma	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/27/2018	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

	F.A.I. RTE	SECTION	Ī
S.N. 020-0026 (EB) & S.N. 020-0027 (WB)	74	*	Ī
3.14. 020-0020 (LD) & 3.14. 020-0027 (VVD)	* D5	BRIDGE PAINTING 2019-1	Γ
SHEET 5 OF 7 SHEETS STA TO STA		TILINOIS SED AT	ī



I-2-B

PASSED

JSER NAME = leroyma

LOT DATE = 6/27/2018

APPROVED

DESIGNED -

DRAWN

DATE

HECKED

DRAWN P.G. Barnett SEM

CHECKED A. Y. Khayyat

9-1-65

REVISED REVISED REVISED

REVISED

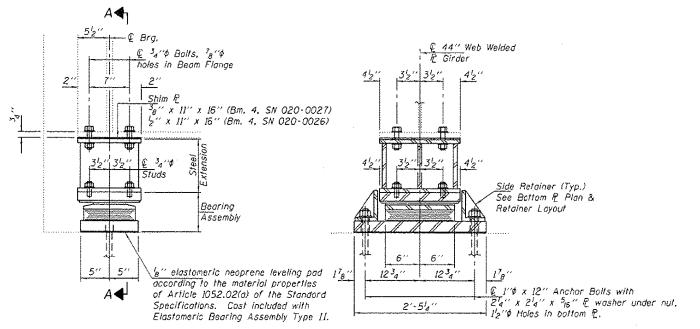
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  AS-BUILT PLANS (FOR INFORMATION ONLY) S.N. 020-0026 (EB) & S.N. 020-0027 (WB) SHEET 6 OF 7 SHEETS STA.

COUNTY DEWITT 19 12 \* D5 BRIDGE PAINTING 2019-1 CONTRACT NO. 70D23

FAIRTE 74 - SEC. 2014VB

DEMITT COUNTY

STA. 746+30.29



# SECTION A-A

€ Brg.

€ Beam-

BOTTOM & PLAN & RETAINER LAYOUT

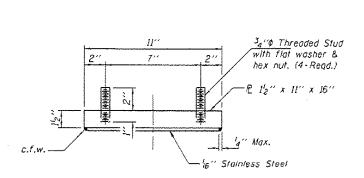
←Clip Corner

Backwall

 $\bigcirc$ 

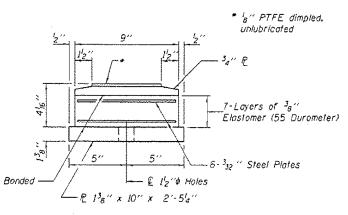
PLAN-PTFE SURFACE

## TYPE II TFE ELASTOMERIC EXP. BRG.



### TOP BEARING ASSEMBLY

ELEVATION AT ABUTMENT



BOTTOM BEARING ASSEMBLY

# BEAM REACTIONS

		W. Abut.	E. Abut.
R₽	(K)	27.4	29.1
R4	(K)	33.0	34.0
Imp.	(K)	8.6	8.1
R (Total)	(K)	69.0	71.2

Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.

New steel extensions, shim plates and connection bolts New steel extensions, shim plates and connection balls are included with Furnishing and Erecting Structural Steel. Prior to ordering any material, the Contractor shall verify in the fleid all bearing height and shim thickness dimensions. Min. jack capacity = 40 Tons.
Anchor balts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C

anchor balts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor balts may be used Neu of ASTM F1554.

Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

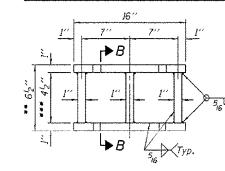
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications. Side retainers shall be included in the cost of

Elastomeric Bearing Assembly, Type II.
The 'g'' PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact

Bonding of  ${}_{g}^{\prime\prime}$  PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

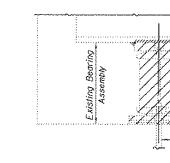
# € 78"\$ Holes

## PLAN TOP AND BOTTOM PLATE



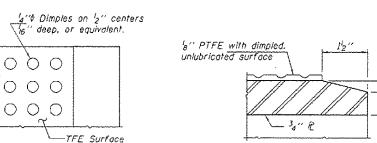
### STEEL EXTENSION DETAIL

\*\* 534" Beam 4 W. Abut. EB Str. No. 020-0026 \*\*\* 3<sup>3</sup>4" Beam 4 W. Abut. EB Str. No. 020-0026



Existing R to be removed using the air-arc method and grind smooth all weld material remaining on the bottom flange.

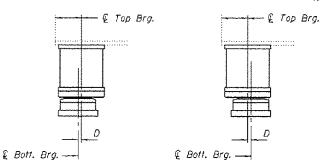
Burn existing anchor bolts flush with existing concrete surface. Grind existing anchor bolt smooth and seal with epoxy.



SECTION THRU PTFE

### EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.



2" 32 32" 2

SECTION B-B

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

### \* South Retainer at W. Abut. SIDE RETAINER North Retainer at E. Abut.

Equivalent ralled angle with stiffeners will be allowed in lieu of welded plates.

# SETTING ANCHOR BOLTS AT EXP. BRG.

 $D = {}^{\prime}\!\!\! g^{\prime\prime}$  per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

# BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	28
Jack and Remove Existing Bearings	Each	28
Furnishing and Erecting Structural Steel	Pound	4350
Anchor Bolts I''¢	Each	56

19 13

TYII/REPS 12-03-2008

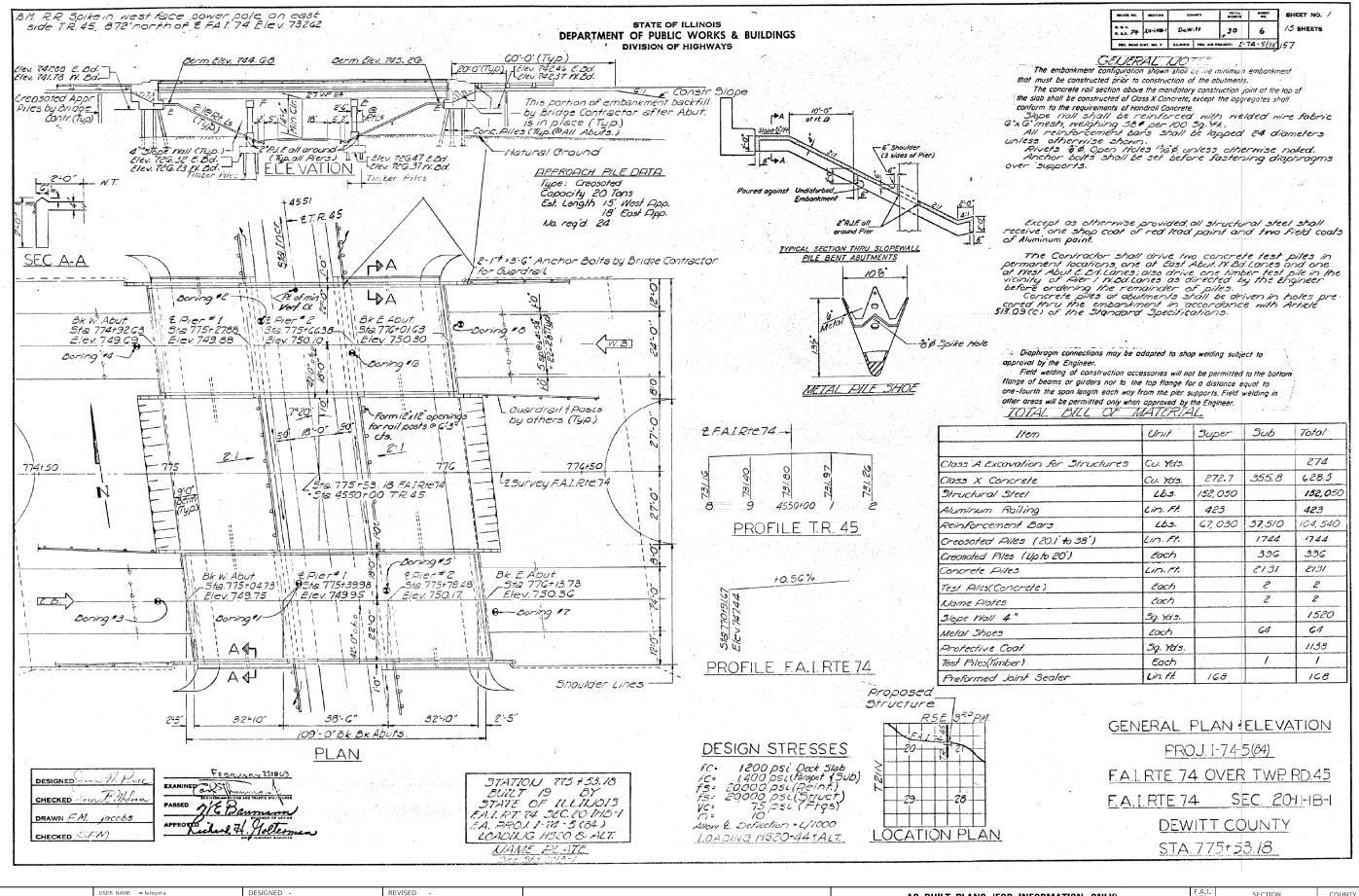
USER NAME = leroyma	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/27/2018	DATE -	REVISED -

STATE OF ILLINOIS

\* Clip Corner 3½" x 3½"

,							F.A.I. RTE	SECTION	COUNTY	T SI
							74	*	DEWITT	
3.14. 020-0020 (EB) & 3.14. 020-0027 (VVB)					* D5	* D5 BRIDGE PAINTING 2019-1 CON				
	SHEET 7	ΩF	7	SHEETS	STA	TO STA		TILINOIS SED A	ID DDOJECT	

**DEPARTMENT OF TRANSPORTATION** 



MODEL: \$MODELNAME\$

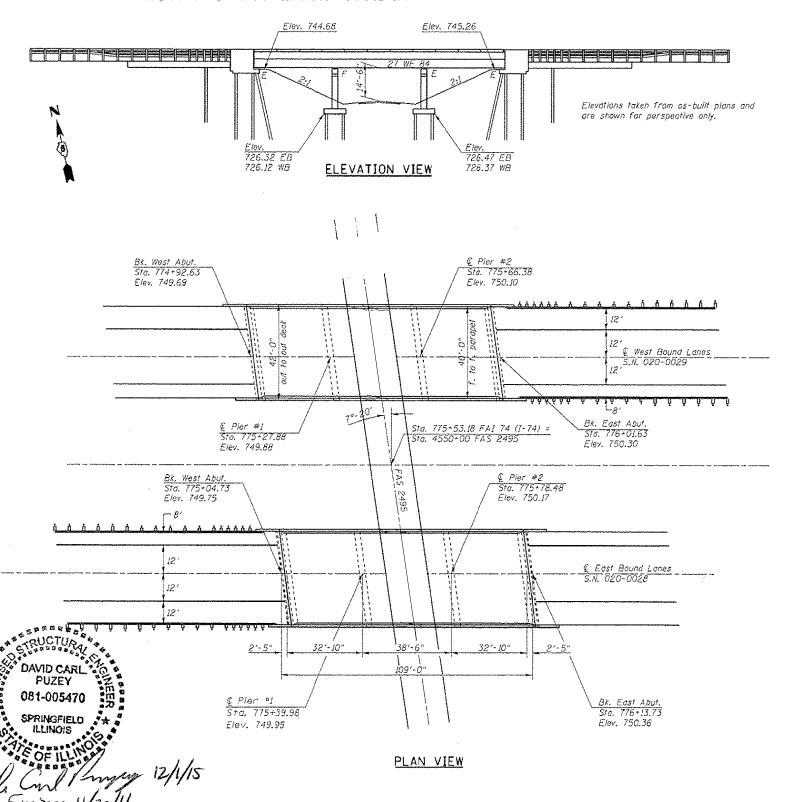
| DESIGNED - | REVISED - | | STATE OF ILLINOIS | | DEPARTMENT OF TRANSPORTATION | | DEPARTMENT OF TRANSPORTATION | | DEPARTMENT OF TRANSPORTATION | DEPARTM

Α					•		ORMATION . 020–0029	•
	SHEET	1	OF	6	SHI	EETS	STA.	TO STA.

F.A.I. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
74	*		DEWITT	19	14
* D5	BRIDGE PAINTING 2019	CONTRACT	NO. 70	D23	
	ILLINOIS	EED. A	ID PROJECT		

The existing structures were built in 1970 as Route FAI-74, Section 20-IHB-1at Sta. 775+53.18 in Dewitt County. The structures carry I-74 over FAS 2495 North of Farmer City. In 1975 a waterproofing membrane and HMA wearing surface was placed under Section D5 Bridge Deck Waterproofing 1975-3, Contract 29686. In 1990 the abutment joints were reconstructed as Section D5 Bridge Repair 1989-2, Contract 90084. In 2004 the HMA wearing surface was removed and replaced with Section 74(3RS-2, 4-1-RS-1), Contract 70027.

The superstructure consists of six 27" rolled steel beams supporting a 8" R.C. deck and  $1^34$ " HMA wearing surface with waterproofing membrane system. The substructure consists of concrete pile supported stub abutments and timber pile supported piers. The structures measure 109'-0" bk, to bk, abutments and 42'-0" out to out of deck. The horizontal clearance is 38'-6" from face to face of hub guard. The spans measure 32'-10", 38'-6", and 32'-10".



- Remove Existing Waterproofing Membrane System and H.M.A. Wearing Surface.
- Milli Existing H.M.A. Wearing Surface at Milling Transition Locations at ends of Structures.

  Perform Bridge Deck Scarification on Bridge Deck and Approach Slabs.
- Partial Removal of Deck Ends, Parapets, and Removal of Hatch Block.
- Ramoval of Existing Joints.
- Perform Full-Depth Potching.
- Place New Floor Drains in Deck.
- Replace Existing Bearings with Elastomeric Bearings at Abutments.
- Place Reinforcement Bars, Locking Edge Rail, and Studs.
- Pour Deck Ends and Hatch Block.
- Insert Rupber Strip Seal into Locking Edge Rails.
- Pour Parabet Ends.
- 13. Place Latex Concrete Overlay on Bridge Deck and Approach Slabs.

  14. Place HMA Overlay on Approach Pavements and Milling Transition.

### BILL OF MATERIALS

ITEM	UNIT	TOTAL
HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SO YO	436.0
HOT-MIX ASPHALT SURFACE REMOVAL (ASBESTOS)	SQ YD	436,0
BRIDGE DECK SCARIFICATION, 3/4"	SO YD	1.316.0
BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2"	SO YD	1,316.0
BRIDGE DECK GROOVING	SQ YD	1.302.0
PROTECTIVE COAT	ŞQ YD	66.0
JACK AND REMOVE EXISTING BEARINGS	EACH	24.0
ELASTOMERIC BEARING ASSEMBLY. TYPE I	EACH	24.0
ANCHOR BOLTS, I"	EACH	18,0
FURNISHING AND FRECTING NEW TORAL STITE	7.00/90	4,980.G
DECK SLAB REPAIR (FULL DEPTH, TYPE 1)	SQ YD	20.0
DECK SLAB REPAIR (FULL DEPTH. TYPE II)	SO YO	5.0
CONCRETE REMOVAL	CU YO	25.8
PROTECTIVE SHIELO	SQ YD	170.0
BAR SPLICERS	EACH	40.0
REINFORCEMENT BARS, EPOXY COATED	POUND	2,620.0
CONCRETE SUPERSTRUCTURE	CU YD	25.8
PREFORMED JOINT STRIP SEAL	FOOT	177.6
FLOOR DRAINS	EACH	26.0
POLYMERIZED LEVELING BINDER (MACHINE METHOD), NIOS	TON	126.0
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", NIOS	TON	126.0
HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	3,201.0
VERTICAL ADJUSTMENT OF GUARDRAIL	FOOT	725.0
STRUCTURAL REPAIR OF CONCRETE (DEPTH < or = 5 INCHES)	SQ FT	71.0
STRUCTURAL STEEL REMOVAL	POUND	2,410.0
STRUCTURAL STEEL REPAIR	POUND	190.0

### GENERAL NOTES

The deck ends and hatch blacks shall have its final surface tined according to Article 420.09 (e) (I) of the Standard Specifications. Cost to be included with concrete superstructure.

Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make the necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work. Hawever, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surface in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete,

Existing structural steel that will be in aontact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel

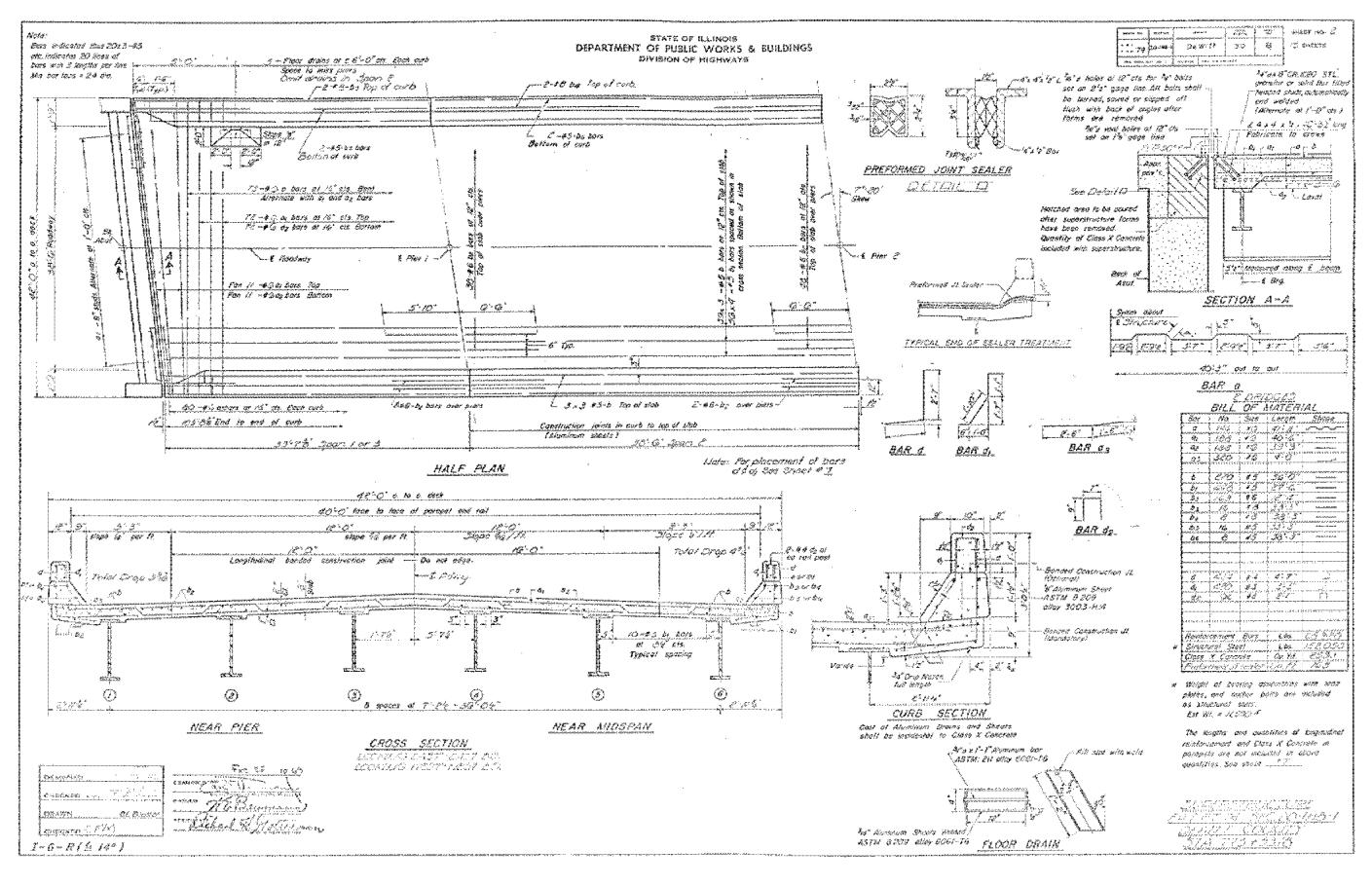
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Joint openings shall be adjusted according to article 520.04 of the Std. Specs, when the deck is poured at an ambient temperature other than 50 \* F.

Existing S.N. 020-0029 (W.B.) has been determined through testing to involve asbestos in the HMA Wearing Surface and/or Waterproofing Membrane. Recurring Special Provision, Check Sheet No. 7, Asbestos Waterproofing Membrane and Asbestos Hot-Mix Aspnail Surface Removal shall be used for the removal and disposal of this material.

\*20-1(MVB.MB-1.VB-1.B.B-1)I

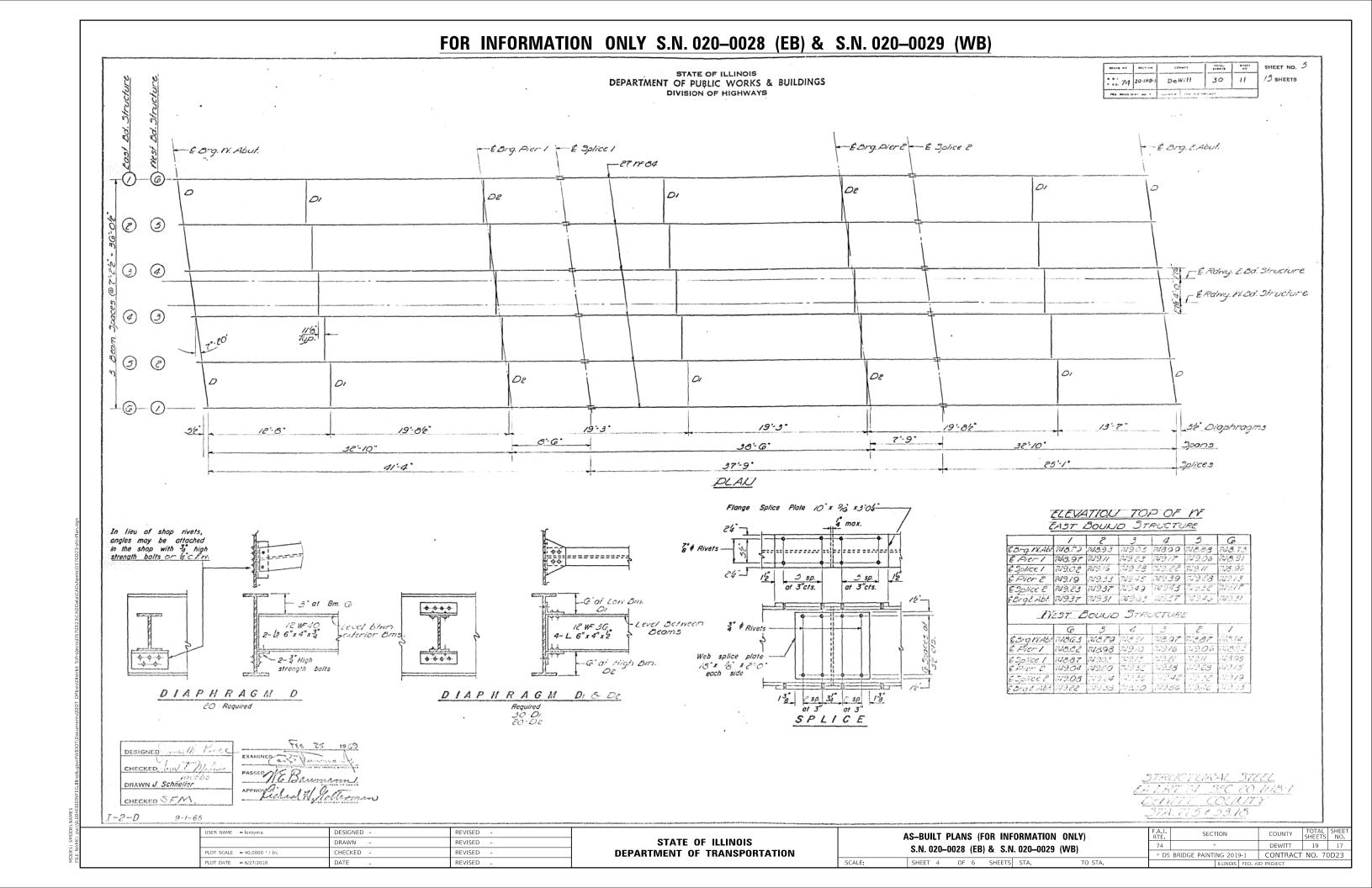
DESIGNED REVISED COUNTY AS-BUILT PLANS (FOR INFORMATION ONLY) STATE OF ILLINOIS DRAWN REVISED DEWITT 19 15 S.N. 020-0028 (EB) & S.N. 020-0029 (WB) HECKED REVISED **DEPARTMENT OF TRANSPORTATION** \* D5 BRIDGE PAINTING 2019-1 CONTRACT NO. 70D23 SHEET 2 OF 6 SHEETS STA. LOT DATE = 6/27/2018 DATE REVISED

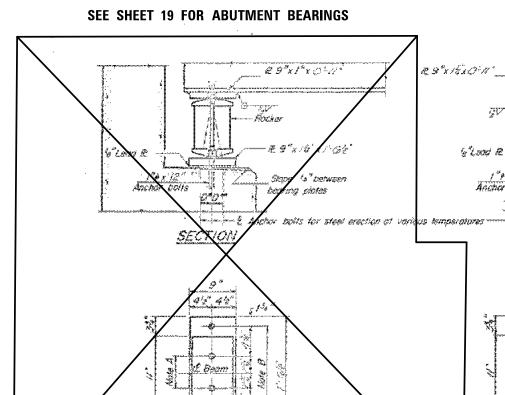


MODEL: \$MODELNAME\$

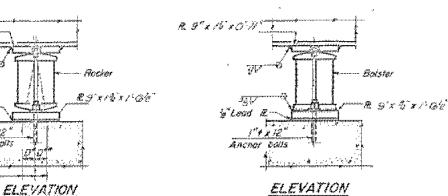
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS (FOR INFORMATION ONLY)
S.N. 020-0028 (EB) & S.N. 020-0029 (WB)





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



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Va"t Finliss timaceted. 357.75 Poles Weld dii sides to 10 W 112 14" t Pintigs



ROCKER

PINTLE

NOTE C

14, 1 Holes | deep in top R.
only for 14 to pastes.

I's " Fintles thresided or press fil 3/2"x" Plates Weld all sides to 10 W-112

BOLSTER

# NOTES ON SETTING OF ANCHOR BOLTS AT EXP. BRGS.

PLAN

AT ABUTMENT

a) 0\* (Side of bog away from fund bog.)

D\* 1g\* per each 100 of expansion for every 15° toll below the normal temp of 50°F. D\*\* Side of brg toward ford brg.) D<sup>MR</sup> =16" per each IOO" of exponence for every 15" rate above the record terrop. at 50 m

£ Brg. R -----

b) After beams have been wasted and dimensions Offer D\*\* determined, hales shall be druked and archor boils shall he grouted in place. All fixed another boils may be owit into the masonry.

1 40 - 14

BEARING ASSEMBLY DETAILS

under mit.

14" Holes for 1" Forehor bolls. 2's x 2's x 20 R. Woshers

£ Brg E --

700
[ K 100

(7.7 / 1.7 Z - CXX/S/Z)

USER NAME = leroyma	DESIGNED -	REVISED -
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NOTE A

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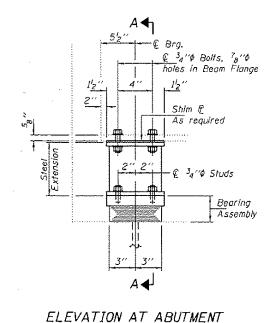
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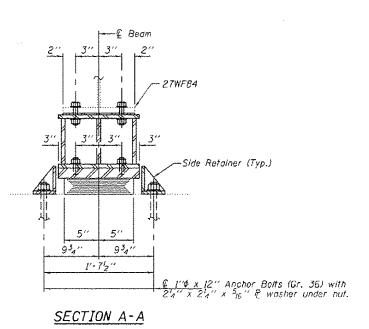
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

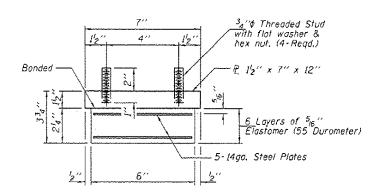
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SHEET	5	OF	6	SHI	EETS	STA.	TO STA.

F.A.I. RTE	SECT	ΓΙΟΝ		COUNTY	SHEETS	SHEE NO.
74	*	*		DEWITT	19	18
* D5	BRIDGE PAINTI	CONTRACT	NO. 70	D23		
		ILLINOIS	FED. A	ID PROJECT		



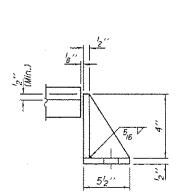


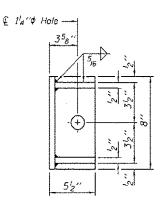
# TYPE I ELASTOMERIC EXP. BRG.



### BEARING ASSEMBLY

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





### SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

REVISED

### BEAM REACTIONS

RP	(K)	14.5
RŁ	(K)	31.5
Imp.	(K)	9.5
R (Total	) (K)	55.5

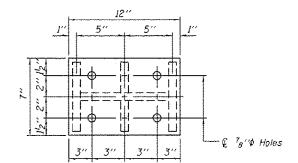
Notes:
Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.
New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel. Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Min. jack capacity = 30 Tons.
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified, ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554

and didmeter(s) specified. ASIM A3UT Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554. Anchor bolts at fixed bearings may be either cast in place or installed in hales drilled after the supported member is in place

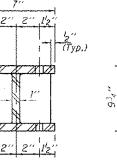
member is in place.

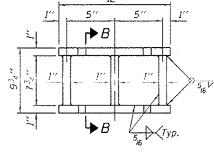
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type I.



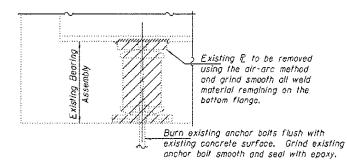
## PLAN TOP AND BOTTOM PLATE





SECTION B-B

STEEL EXTENSION DETAIL



### EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

### BILL OF MATERIAL

Îtem	Unit	Total
Elastomeric Bearing Assembly Type I	Each	24
Jack and Remove Existing Bearings	Each	24
Furnishing and Erecting Structural Steel	Pound	2570
Anchor Bolts I''	Each	48

TYI/REPS 12-03-2008

PLOT DATE = 6/27/2018

DESIGNED -REVISED DRAWN REVISED HECKED REVISED

DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  AS-BUILT PLANS (FOR INFORMATION ONLY) S.N. 020-0028 (EB) & S.N. 020-0029 (WB) SHEET 6 OF 6 SHEETS STA.

COUNTY DEWITT 19 19 \* D5 BRIDGE PAINTING 2019-1 CONTRACT NO. 70D23