INDEX OF SHEETS 03-11-2022 LETTING ITEM 112

1.	COVER SHEET
2.	COMMITMENTS & GENERAL NOTES
	SUMMARY OF QUANTITIES
4.	SCHEDULE OF QUANTITIES
	TRAFFIC CONTROL PLAN
	REPAIR DETAILS (SN 090-0104)
	REPAIR DETAILS (SN 090-0105)
1415.	REPAIR DETAILS (SN 090-0119)

LIST OF STANDARDS

000001-08701301-04001006701316-13701001-02701426-09701006-05701428-01701011-04701901-08701106-02704001-08701101-05782006-01

DESIGN DESIGNATION

<u>I-474</u>	I-74
INTERSTATE	INTERSTATE
AADT = 16,000	AADT = 41,300
S.U. = 5.63%	S.U. = 4.60%
M.U. = 17.81%	M.U. = 8.72%
POSTED SPEED == 70 MPH	POSTED SPEED = 70 MPH
<u>COLE ST.</u>	<u>SPRINGFIELD RD.</u>
MAJOR COLLECTOR	MINOR ARTERIAL
AADT = 2,900	AADT = 5,350
POSTED SPEED = 35 MPH	POSTED SPEED = 40 MPH
<u>I-474 EB TO I-74 WB</u> INTERSTATE AADT = 500 POSTED SPEED = 70 MPH	



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.LI.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS 1-800-892-0123 OR 811

PROJECT ENGINEER: NICOLE FAYANT - (309) 671 3454 PROJECT MANAGER: TRAVIS WALLENFANG - (309) 671-3474

N

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CATALOG NO. 036255-00D CONTRACT NO. 68G68

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAI ROUTES 474 & 74 (I 474 & I 74) SECTION: 90[7(HB–1, HB, HB–5)]BRR PROJECT: NA BRIDGE REPAIR TAZEWELL COUNTY

C-94-092-21 SN 990-0119 [EB L-474 RAMP TO WB L-74] SN 990-0119 [EB L-474 RAMP TO WB L-74]

> GROSS LENGTH = n/aNET LENGTH = n/a

0

0

0





PROJECT DESCRIPTION

Bridge repairs to SN 090-0104 Springfield Rd and SN 090-0105 Cole St over I-474; and SN 090-0119 EB 1-474 over WB I-74.



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

COMMITMENTS

No commitments have been made for this project.

ENVIRONMENTAL REVIEWS

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run-arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

The required environmental resource documentation shall include the following:

- * BDE Form 2289 (Borrow Site Review)
- * BDE Form 2290 (Waste/Use Area Review)
- * A location map showing the size limits and location of the use area
- * Color photographs depicting the use area
- * Borrow Area Entry Agreement form D4 PI0101

Prior to any waste materials being removed from the construction site the required environmental resource surveys shall be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

Please note that a minimum of four weeks shall be allowed for the District to obtain the required waste site environmental clearances and six weeks for the required borrow site environmental clearances.

	USER NAME = \$USER\$	DESIGNED -	REVISED -	STATE OF HUMOIS								F.A.I. BTF	SECTION	COUNTY	TOTAL	SHEET
		DRAWN -	REVISED -			IERAL NOT		474	90[7(HB-1,HB,HB-5)]BRR	TAZEWELL	15	2				
	PLOT SCALE = 1:100	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION										CONTRAC	T NO. 6	8G68
PL/	PLOT DATE = 12/22/2021	DATE -	REVISED -		SCALE:	SHEET	OF	S	SHEETS S	στΑ.	TO STA.		ILLINOIS FED	AID PROJECT		

				C	ONSTRUCTION COL	DE
				TAZEWELL	TAZEWELL	TAZEWELL
			URBAN	100% STATE	100% STATE	100% STAT
				BRIDGE	BRIDGE	BRIDGE
CODE			TOTAL	0013	0013	0013
NO.	ITEM	UNIT	QUANTITY	S.N. 090-0104	S.N. 090-0105	S.N. 090-01
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	5750	2810	2860	80
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	26	14	12	
52100520	ANCHOR BOLTS, 1"	EACH	52	28	24	
67100100	MOBILIZATION	L SUM	1	1		
					· · · · · · · · · · · · · · · · · · ·	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	1	1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	12	6	6	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	30	30		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	600	300	300	
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	2	2	
X7010200	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316 (SPECIAL)	EACH	2	1	1	
X7010218	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	4	2	2	
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	26	14	12	
Z0001905	STRUCTURAL STEEL REPAIR	POUND	1100	0	550	550

	USER NAME = \$USER\$	DESIGNED -	REVISED _	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION							F.A.I. BTE	SECTION	COUNTY	TOTAL SHE	F
		DRAWN	REVISED		SUMMARY OF QUANTITIES						474	90[7(HB-1,HB,HB-5)]BRR	TAZEWELL	15 3	
	PLOT SCALE = 1:100	CHECKED	REVISED -											NO. 68G6	3
1	PLOT DATE = 12/22/2021	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	PROJECT		

	MOBILIZATION
LOCATION	LSUM
JOBSITE	1

CHANGEA	BLE MESSAGE SIGN	
LOCATION	CAL DAYS	
I-474	6	
I-74	9	
Springfield Rd	6	
Cole St	6	
I-474 EB Ramp	3	
TOTAL	30	

*Assumes 1 board per direction of traffic 3 days in advance of work at each location

		TRAF	FIC CONTROL &	PROTECTION			
LOCATION	TC&P, (SPECIAL) (EACH)	TC&P STD 701316, (SPECIAL) (EACH)	TEMP BRIDGE TRAFFIC SIGNALS (EACH)	TEMP RUMBLE STRIPS (EACH)	TEMP. CONC. BARRIER* (FT)	IMP ATTN TEMP NRN TL3* (EACH)	TC&P STD 701101** (EACH)
SN 090-0104			•				
N. Abutment	1				150	1	
S. Abutment	1				150	1	
Springfield Rd		1	1	6			
SN 090-0105							
N. Abutment	1				150	1	
S. Abutment	1				150	1	
Cole St.		1	1	6			
SN 090-0119							
N. Abutment							1
Pier#1							1
Pier #2							1
TOTAL	4	2	2	12	600	4	3
*Existing pay iten	ns shall cover both	new installations an	d relocations (if	performed)			
**Not measured	for payment						

-	USER NAME = \$USER\$	DESIGNED -	REVISED -							F.A.I. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.	
		DRAWN -	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES		474	90[7(HB-1,HB,HB-5)]BRR	TAZEWELL	. 15 4				
	PLOT SCALE = 1:100	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			_		CONTRAC	CT NO. 68G68				
	PLOT DATE = 12/22/2021	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT	

See Structural Repair Sheets for repair quantity schedules





LEGEND



SIGN

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WHITE TEMPORARY PAVEMENT MARKING

ADVANCED SIGN SPACING AND TEMPORARY RUMBLE STRIPS ACCORDING TO TC&P 701316

STAGE 1 CONSTRUCTION EDGE DRUMS



TC&P, SPECIAL (Sheet 7)

DRUMS WITH STEADY BURNING BI-DIRECTIONAL LIGHTS AT 25' CTS. NOTES:

For any work on the bridge deck that is anticipated to have workers on the deck for more than 24 hours (cumulative), one truck mounted attenuator shall be placed in the closed lane in advance fo the workers during working hours. Cost shall be inclusive of the existing traffic control standards.

	USER NAME = \$USER\$	DESIGNED -	REVISED -		TRAFFIC CONTROL PLAN -		V - TC&	P STD 701	316 SPECIAL	F.A.I. BTE	SECTION	COUNTY	TOTAL SHEET
		DRAWN -	REVISED -	STATE OF ILLINOIS	••					474	90[7(HB-1,HB,HB-5)]BRR	TAZEWELL	15 5
P	PLOT SCALE = 1:44	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	SN 090-0104 (SPRINGFIELD RD)						CONTRAC	T NO. 68G68	
	PLOT DATE = 12/22/2021	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT

Temporary Pavement markings shall be Type III or IV Tape. Cost of temporary pavement markings, covering of conflicting markings, and removal of temporary markings shall be inclusive of the existing traffic control standards.



:&I	&P STD 701316 SPECIAL (COLE ST)		F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
(ri			474	90[7(HB-1,HB,HB-5)]BRR	TAZEWELL	15	6
101					CONTRACT	NO. 68	3G68
TS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



TO STA.

USER NAME = \$USER\$	DESIGNED - DRAWN -	REVISED - REVISED -	STATE OF ILLINOIS		TRAFFI		ROL PLA	
PLOT SCALE = 1:0.18	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		TRAFFIC CO	ONTROL	& PRUI	TECTION,
PLOT DATE = 12/22/2021	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DRAWN REVISED -SN 090-0119 (EB I-474 PLOT SCALE = 1:100 CHECKED -REVISED SHEET OF SHEET PLOT DATE = 12/22/2021 DATE REVISED SCALE:

			F.A.I.	SEC1	TON		COUNTY	TOTAL	SHEET
ROL PLAN RAMP OVER I-74)		RTE.	RTE SECTION				SHEETS	NO.	
		474	90[7(HB-1,HB,HB-5)]BRR			TAZEWELL	15	8	
						CONTRACT	. NO. 68	3G68	
TS	STA.	TO STA.			ILLINOIS	FED. AI	ID PROJECT		



12/22/2021 9:18:21 AM

TOTAL BILL OF MATERIAL

М	UNIT	QUANTITY
ructural Steel	Pound	2,810
bly, Type I	Each	14
	Each	28
Bearings	Each	14

Contractor shall field verify the new bearing height based on the existing deck either rising or settling due to the corroded rocker beams. Adjustments may be necessary to ensure the existing expansion joint is even on both sides after bearing replacement

All new structural steel, bearing assemblies, steel extensions, shim plates, side retainers, anchor bolts, nuts and washers, etc. shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing for Structural Steel".

Date: 12/22/21

BRIDGE REPAIRS C.H. 1 (SPRINGFIELD RD.) OVER F.A.I. RTE. 474 STATION 99.18 STRUCTURE NO. 090-0104

F.A.I. RTE.	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
474	90-7HB-1			TAZEWELL	15	9
				CONTRACT	VO. 68G6	8
		ILLINOIS	FED, AI	D PROJECT		
	RTE.	474 90-7	474 90-7HB-1	RTE. SECTION 474 90-7HB-1	RTE.SECTIONCOUNTY47490-7HB-1TAZEWELL	ATE SECTION COUNTY SHEETS 474 90-7HB-1 TAZEWELL 15 CONTRACT NO. 68G6



192-3231 IDOT

2/4/2022 9:03:47 AM

Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).

Diaphragms' should not be used as load-carrying members in the jacking and cribbing system,

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 $ilde{F}$ 1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may

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

the expansion joints shall be $\pm \frac{1}{4}$. Recording accurate measurements and ordering properly sized shims shall be the sole responsibility of the contractor.

|--|

ILLINOIS FED. AID PROJECT

			Item	Unit	Tota	ə/	
	Furnishing and Erecting Structural Steel			Pound	281	<u>с</u>	
	Elastomeric Bearing Assembly, Type I		Each	14			
	Anch	nchor Bolts 1" Ø		Each	28		
			Remove Bearings	Each	14		
		F.A.I. RTE	SECTION	COUNTY	TOT SHE		SHEET NO.
04		474	90-7HB-1	TAZEWEL	L 18	5	10
74				CONTRAC	CT NO. (38G(38



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SHEET 1 OF 3 S

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
g, Assembly, Type I	Each	12
xisting Bearings	Each	12
cting Structural Steel	Pound	2,860
	Each	24
pair	Pound	550

Contractor shall field verify the new bearing heights based on the existing deck either rising or settling due to the corroded rocker beams. Adjustments may be necessary to ensure the existing expansions joint is even on both sides after bearing replacemnet bas commenced.

All new structural steel, bearing assemblies, steel extensions, shim plates, side retainers, anchor bolts, nuts and washers, etc. shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing for Structural Steel".

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and detials affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based at the unit price bid for the work.

Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Furnishing and Erecting Structural Steel.

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

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

BRIDGE REPAIRS COLE ST. OVER F.A.I. RTE. 474 TAZEWELL COUNTY STATION 236+98.77 STRUCTURE NO. 090-0105

LEVATION	F.A.I. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
90-0105	474	90-7HB		TAZEWELL	15	11
				CONTRACT	VO. 68G6	58
SHEETS		ILLINO	S FED. A	ID PROJECT		





Notes:

Structural Steel.

BEARING DE

".'

SHEET 2 OF 3

103%

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⊷ ½″ typ

STRUCTURE NO. JOB NO. 192-3231 PLOT DATE = CHECKED -REVISED . CJC 12/21/2021 8:15:17 AM

3231

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. Adjustment must account for deck heave due to pack rust (if present). Min. jack capacity =50 Tons. Diaphragms should not be used as load-carrying members in the jacking and cribbing system, unless notified otherwise by Engineer. 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 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554. Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard

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

Specifications. Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type 1. The contractor shall correct elevation differences in the profile grade across the existing expansion joints at the ends of the deck. This shall be accomplished by adding shim plates at location shown on the plans. No more than two shim plates shall be added to each bearing location. The contractor shall field verify the existing dimensions and propose all vertical adjustments to the engineer prior to ordering the extra shims. The allowable elevation tolerances between the two sides of the expansion joints shall be ±¼". Recording accurate measurements and ordering properly sized shims shall be the sole responsibility of the contractor.



STEEL EXTENSION DETAIL

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	2,500
Elastomeric Bearing Assembly, Type I	Each	12
Anchor Bolts 1" Ø	Each	24
Jack and Remove Existing Bearings	Each	12

ETAILS		SEC ⁻	ECTION		COUNTY	TOTAL SHEETS	SHEET NO.
090-0105	474 90-7HB			TAZEWELL	15	12	
090-0105		CONTRACT NO. 68G68					38
SHEETS	ILLINOIS FED. AID			D PROJECT			



Existing

Bearing Stiffener

REVISED -

REVISED -

REVISED

REVISED

DESIGNED - CJC

CHECKED - X

-

BP

CJC

DRAWN

CHECKED -

template at all other locations. Fasteners shall be high strength bolts. Bolts $\frac{3}{4}$ "Ø, open holes ¹³/₁₆"Ø, unless otherwise noted.



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

Existing

Bearing Stiffener

FRAMING	PLAN A	ND GIRD

S	TR	U	C	ΓU	R	E	N	(
								_

6

PROFESSIONAL DESIGN NUMBER: 141-00208 1400 E. TREMONT ST. HILLSBORO, IL PH: 217.532.3959 JOB NO. 192-3231

12/21/2021 1:28:48 PM

Hurst-Rosche, Inc. USER NAME =

PLOT SCALE =

PLOT DATE =





SECTION COUNTY F.A.I. RTE. **GENERAL PLAN & ELEVATION** SHEETS 474 90-7HB-5 TAZEWELL 15 14 CONTRACT NO. 68G68 SHEET 1 OF 2 SHEETS ILLINOIS FED. AID PROJEC

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
hing and Erecting Structural Steel	Pound	80
ural Steel Repair	Pound	550

INDEX OF SHEETS

1. General Plan and Elevation 2. Framing Plan and Girder Repair Details

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

the quantity actually furnished at the unit price bid for the work. All structural steel shall conform to AASHTO Classification M-270 Gr. 36 unless otherwise noted. Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Structural Steel Repair. Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provisions "Cleaning and Painting Contact Surface Areas of Existing Steel Structures". The existing structural steel coating contains lead. The contractor shall take appropriate precautions to deal with presence of lead on this

shall take appropriate precautions to deal with presence of lead on this

New structural steel, connection bolts, nuts and washers shall be hot dip galvanized according to Special Provision "Hot Dip Galvanizing for Structural Steel".

BRIDGE REPAIRS F.A.I. RTE. 474 OVER F.A.I. RTE. 74 TAZEWELL COUNTY

STATION 413+40.94

STRUCTURE NO. 090-0119



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BILL OF MALERIAL		
ITEM	UNIT	QUANTITY
Furnishing and Erecting Structural Steel	Pound	80
Structural Steel Repair	Pound	550