SUMMARY OF QUANTITIES

paycode 20400800

28100127

28200200 50300300 50102400 50104710

50157300

50300255

50501005

50501105

50600300

50606400

50800205

52000110

52100520

58700300 59000200 50% Iowa / 50% Illino Maintenance

		Maintenance
		100% Rural SFTY-2A
description	units	total quantity
FURNISHED EXCAVATION	CU YD	5
STONE RIPRAP, CLASS B4	SQ YD	š 👷
FILTER FABRIC	SQ YD	39
PROTECTIVE COAT	Sayd	39 2/3
ONCRETE REMOVAL	CU YD	66.
REMOVAL OF EXISTING BEARINGS	EACH	7
PROTECTIVE SHIELD	SQ YD	23
ONCRETE SUPERSTRUCTURE	CU YD	66.
JACK AND REPOSITION BEARINGS	EACH	
DPEN STEEL FLOOR	SQ FT	16,61
CLEANING AND PAINTING STEEL BRIDGE	L SUM	
CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES	L SUM	
REINFORCEMENT BARS, EPOXY COATED	POUND	9,98
REFORMED JOINT STRIP SEAL	FOOT	39
NCHOR BOLTS, 1"	EACH	
ONCRETE SEALER	SQ FT	1.53
POXY CRACK INJECTION	FOOT	21
NGINEER'S FIELD OFFICE, TYPE A	CAL MO	9
IOBILIZATION	L SUM	
REPAIR OF EXISTING OPEN STEEL FLOOR WELDS	EACH	1
URNISHING AND INSTALLING FABRIC BEARINGS	EACH	
EMOVE AND REPLACE NONSHRINK GROUT BEARING PEDESTALS	EACH	1
ACRYLIC COATING	SQ YD	22
TIBER WRAP	SQ FT	1,98

			·
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	
67100100	MOBILIZATION	L SUM	
X0325925	REPAIR OF EXISTING OPEN STEEL FLOOR WELDS	EACH	·····
x0325926	FURNISHING AND INSTALLING FABRIC BEARINGS	EACH	
X0325927	REMOVE AND REPLACE NONSHRINK GROUT BEARING PEDESTALS	EACH	
X0325748	ACRYLIC COATING	SQ YD	2
A(x0325749	FIBER WRAP	SQ FT	1,9
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	
70100900	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316(SPECIAL)	EACH	. · · · ·
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	1,50
70300500	PAVEMENT MARKING TAPE. TYPE III	FOOT	14,50
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	6,00
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	5,90
78300100	PAVEMENT MARKING REMOVAL	SQ FT	110
X0325303	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	26
X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	6
X7013015 Z0031200	TRAFFIC CONTROL FOR ROAD CLOSURE TACKING AND CRIBBING	L SUM	
Z0032300	JACKING EXISTING SUPERSTRUCTURE	L SUM	о
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	
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AREVISED 2/25/08 * SPECIALTY ITEM

REVISED - ____ FILE NAME = DESIGNED -USER NAME = linkdj ____ STATE OF ILLINOIS DRAWN REVISED -0:\BR\CADD plans\Carroll County\0086 0086000rehab.dgn SUMMARY OF QUA ------____ PLOT SCALE = 50.0000 '/ IN. CHECKED -REVISED -**DEPARTMENT OF TRANSPORTATION** ---------PLOT DATE = Wed Dec 12 10:33:47 2007 DATE REVISED -SCALE: SHEET NO. __ OF ___ SHEETS

FRE SECTION COUNTY JURIAL SHEET	TO STA	RTE. _17 FED. ROAD DIST.	6000M-1	CARROLLCONTRAC	SHEETS NO. _202 T NO. 64D58
		F.A RTE.	SECTION	COUNTY	TOTAL SHEE SHEETS NO.
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 Replace stringer bearings as scheduled, see Sht. 5 & 6 of 15. Remove & replace deck and parapet joint seals, see Sht. 7, 8, & 9 of 15. Repair concrete substructure elements as scheduled, see Sht. 12, 13, & 14 of 15. Clean & paint existing steel as scheduled, see Sht. 7, 8, & 12 of 15, and Note 4 this sheet. 	а. - так 					1		· ·
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 (1) Review stringer bearings as scheduled, see Sht. 5 & 6 of 15. (2) Revore & replace deck and paraget joint jeeds, see Sht. 7, 8, 8 9 of 15. (3) Report concrete substructure elements as jocheduled, see Sht. 12, 13, 8, 14 of 15. (4) Clean 8, point existing steet as acheduled, see Sht. 7, 8, 8 12 of 15, and Note 4 this steet. (5) Reavone 8 replace anisting steet as acheduled, see Sht. 7, 8, 8 12 of 15, and Note 4 this steet. (6) Reavone 8 replace marks as isobeduled, and epoint broken deck weeks as scheduled, see Sht. 10 of 15. (7) Clean 8 point existing taket given approach space of Per I. See Sht. 4 of 15. (8) Reavone 8 replace anisting taket point basing point proceed space of Per I. See Sht. 4 of 15. (9) Reavone 8 replace anisting taket of given approach space of Per I. See Sht. 4 of 15. (9) Reavone 8 replace anisting taket of given approach space of Per I. See Sht. 4 of 15. (9) Reavone 8 replace anisting taket of the array of rease bearing pins. typ. Fier 1 thru Pier 5, included in "Cleaning & Pointing". (9) Reavone 8 replace and apply concrete sealer as scheduled, see Sht. 12 of 15. (axcludes PE4 and E3 which receive fiber. 		9390 ·						1.) Existing Structure No. 008-6000 was origina
 3) Repair concrete substructure elements as scheduled, see Sht. 12, 13, & 14 of 15. 3.) Partiens of the proposed work will be parta. 4) Clean 8, paint existing steel as acheduled, see Sht. 7, 8, 8, 12 of 15, and Mate 4 this shest. 5) Remove 8, replace existing steel grid deck as scheduled, ond repair broken deck welds as scheduled, see Sht. 10 of 15. 6) Clean 8 paint existing barrings ond grease bearing pins, typ. Fler 1 thru Pier 5, included in "Cleaning 8. Painting". 6) Add supplemental anchor bait for steel truss, north bearing of Is. 7) Clean 8 paint existing wait, place slope fill and stane riprap, see Sht. 12 of 15. 6) Remove existing state retaining wait, place slope fill and stane riprap, see Sht. 12 of 15. (excludes PB4 and B3 which receive fiber wrap.) bestoned P.M. bestone			$\widehat{(1)}$ Replace stringer bearings as scheduled, s	ee Sht. 5 & 6 of 15.				Lowa Department of Transportation as Project No the Illinois Department of Transportation Section
 			(2) Remove & replace deck and parapet joint	seals, see Sht. 7, 8, & 9 of 15.				2.) The bridge carries two lanes of traffic on $e^{i r}$
 Seed over-ratated north bearing of Iawa approach spon at Pior I. See Sht. 4 of 15. Readouted, see Sht. 10 of 15. Readouted, see Sht. 10 of 15. Clean & point existing steal grid deck as scheduled, and repair broken deck welds as scheduled, see Sht. 10 of 15. Remove existing times retaining wall, place slope fill and stone riprap, see Sht. 4 of 15. Remove existing seats and apply concrete sealer as scheduled, see Sht. 12 of 15. (excludes PB4 and B3 which receive fiber wrap.) 								
 (6) Remove & replace existing steel grid deck as scheduled, and repair broken deck welds as scheduled, see Sht. 10 of 15. (7) Clean & paint existing bearings and grease bearing pins, lyp. Pler 1 thru Pler 5, included in "Cleaning & Painting". (8) Add supplemental anchor balt for steel truss, north bearing at Pler 5, see Sht. 4 of 15. (9) Remove existing timber retaining wall, place slope fill and stone riprap, see Sht. 15 of 15. (9) Clean bearing seats and apply concrete sedier as scheduled, see Sht. 12 of 15. (excludes PB4 and B3 which receive fiber wrap.) 								
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 8 Add supplemental anchor bolt for steel truss, north bearing at Pier 5, see Sht. 4 of 15. 9 Remove existing timber retaining wall, place slope fill and stone riprap, see Sht. 15 of 15. 10 Clean bearing seats and apply concrete sealer as scheduled, see Sht. 12 of 15, (excludes PB4 and B3 which receive fiber wrap.) 				uo seneuureu, unu repuir Droken	UCCK			9 ws
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Clean bearing seats and apply concrete sealer as scheduled, see Sht. 12 of 15. (excludes PB4 and B3 which receive fiber								
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

DESIGNED PJL CHECKED LLV

DRAWN MGM

CHECKED PJL

1. No field welding is permitted except as specified in the contract documents.

2. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

3. Reinforcement bars designated (E) shall be epoxy coated.

4. 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 surfaces 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.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by an individual acceptable to the Engineer. Any cracks that cannot be removed by grinding ¹/₄ inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas, and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

5. Plan dimensions and details relative to existing plans are subject to routine 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 based upon the unit price bid for the work.

6. Concrete Sealer shall be applied to the designated areas of the horizontal bearing seats of substructure elements. See Schedule, Sht. 12 of 15.

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

8. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

9. The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.

ENVIRONMENTAL COMMITMENTS

I. No in-stream repair work or work from the ground in backwater areas will be permitted for this project. Except as noted herein, the Contractor shall conduct all work over the river or its backwater areas from atop the bridge or from a barge.

2. The intentional or accidental deposition of debris or other material into the river or backwater areas will not be permitted. The Contractor shall catch all materials falling from the bridge or retrieve all such fallen materials.

The Contractor may erect nets or temporarily anchor a barge beneath the bridge to catch falling material. The Contractor shall remove all catchment measures prior to completion of the project.

3. The Contractor will be permitted to drive temporary piling in connection with the Jacking and Cribbing at Pile Bents 4, 8 and 12 to make concrete repairs to the existing piles. The Contractor shall remove all temporary piles prior to completion of the project.

4. On the Illinois shore, the Contractor shall be permitted to make the repairs to Pier 5 and to the adjacent proposed riprap Slopewall from ground level provided that such work is not conducted in river flood waters and provided that it is conducted in accordance with the applicable requirements of the adjacent BNSF Railroad.

5. No separate payment will be made for compliance with these Environmental Commitment requirements. The costs for compliance with these requirements shall be included in the bid prices for associated items of work.

1.46

PAY CODE	ITEM	UNIT	QUANTITY
20400800	Furnished Excavation	Cu. Yd.	55
28100127	Stone Riprap, Class B4	Sq. Yd.	395
28200200	Filter Fabric	Sq. Yd.	395
50102400.	Concrete Removal	Cu. Yd.	66.7
50157300	Protective Shield	Sq. Yd.	233
50300255	Concrete Superstructure	Cu. Yd.	66.7
50300300	Protective Coat	Şq. Yd.	.213
50501005	Jack and Reposition Bearings	Each	1
50501105	Open Steel Floor	Sq. Ft.	16,619
ŕ	Repair of Existing Open Steel Floor Welds	Ęach	18
	Furnishing and Installing Fabric Bearings	Èach	76
	Remove and Replace Nonshrink Grout Bearing Pedestals	Each	12
	Cleaning and Painting Steel Bridge	L Sum	1
50606400	Containment and Disposal of Lead Paint Cleaning Residues	L Sum	1
50800205	Reinforcement Bars, Epoxy Coated	Pound	9,980
52000110	Preformed Joint Strip Seal	Foot	396
52100520	Anchor Bolts, 1"	Each	1.
58700300	Concrete Sealer	Şq. Ft.	1,539
59000200	Epoxy Crack Injection	Foot	211
67000400	Engineer's Field Office, Type A	Çal. Mo.	9
67100100	Mobilization	L Sum	1
<u> 70101700 · </u>	Traffic Control And Protection	L Sum	1
	Structural Repair of Concrete (Depth Greater Than 5 Inches)	Šą. Ft.	266
X0325305	Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.	60
	(Fiper WRAP3	Śą. Ft.	1,989 .
	Acrylic Coating	Sq. Yd.	221
Z0031200	Jacking and Cribbing	Each	4
Z0032300	Jacking Existing Superstructure	L Sum	1
Z0048665	Railroad Protective Liability Insurance	L Sum	1
	Removald Existing Bearings	Each	76
	1 w		

AREVISED 2125/08

ROUTE ND.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.
F.A.P. 17	6000 M-1	CARROLL		20	8
FED. ROAD DIST. NO. 7		ILLINDIS FED. 410 PROJECT-			

SHEET NO. 3

15 SHEETS

TOTAL BILL OF MATERIAL





STS CONSULTANTS II. NE Jefferson Ave. Peoria, Illinois 61602 Ph(309)676-5464 FAX(309)676-5445 IL Design Firm Reg. No. 184-001518

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIR SCHEDULE

KEY		2	3	(4	\mathcal{D}	5	6		8	9
ITEM	Structural Repair of Concrete (Depth	Structural Repair of Concrete (Depth → 5")	Epoxy Crack Injection	WRAP	Acrylic Coating	Jacking & Cribbing	Clean & Paint Steel H-Piles	Remove Channels, Clean, Paint, and Reinstall	Remove Post Tension Rods, Clean, Paint, & Reinstall	Concrete Sealer
UNIT	Sq. Ft.	Sq. Ft.	Foot	Sq. Ft.	Sq. Yd.	Each	**	**	**	Sq. Ft.
ile Bent 1 *	2									78
le Bent 2			9				X			143
le Bent 3	-									0
le Bent 4	-#\$#18	30	25	395	44	1			X	0
e Bent 5	10	20		269	30			X		44
e Bent 6		90	10				X			143
e Bent 7	20	4	10					X		44
e Bent 8	2	20	10	84	9	1			X	44
e Bent 9										44
e Bent 10										143
e Bent 11										44
9 Bent 12		8	8	81	9	1		· X		44
nt 1			20							44
nt 2	8	4	10			1				44
nt 3		24	60	820	91					0
nt 4		12	12					Χ		44
nt 5 .		2 .	2							44
nt 6		12	15							44
r 1										88
er 2						······································				88
r 3										142
r 4				7.10						142
er 5	-3# 	40	20	340	38					. 88
TOTAL	60	266	211	1,989	221	4	**	**	**	1,539

(Cleaning and Painting Existing Post-Tensioning of Pile Bent Cap: PB3, PB4, and PB8; Showing Details from 1985 Repair Plans)

1. Remove, clean, paint, and re-install existing post-tensioning steel. Portions which can be thoroughly cleaned and painted in place may be so treated at Engineer's direction.

2. Reinstall post tensioning plates and threadbars after concrete repairs are made.

3. Post-tension (jack) each threadbar to 60 kips seven days after placement of non-shrink grout. Each pair of bars shall be tensioned such that unbalance of force in bars does not exceed 5 kips during tension operations.

(Cleaning and Painting of Pile Cap Steel: PB5, PB7, PB12, and B4)

1. Remove the existing channels on each side of the pile caps and bent caps before concrete repairs are performed.

3. Apply Paint.

4. Existing bolts fastening channels to pile and bent caps may be re-used except those that, in the judgement of the Engineer are too corroded for re-use, shall be replaced. Payment for replacement bolts shall be made in accordance with Article 109.04 of the Standard Specifications.

5. Reinstall each channel to the specific pile cap after completion of concrete repairs (if required).



AREVISED 2/25/08

-Tack Weld

-Tack Weld



EXISTING SECTION A-A (8)

ROUTE NC.	SECTION	COL	JNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.	12
F.A.P. 17	6000 M-1	CARROLL		20	17	15 SHEETS	
FED. ROAD DIST	. NO. 7	ILLINDIS	FED. AID PRO	DJECT-			

PILE BENT CAP NOTES (8)

PILE CAP STEEL NOTES (7)

2. Sandblast clean each entire channel to SSPC SP6 (Commercial Blast)

SUBSTRUCTURE REPAIR PROCEDURES F.A.P. RTE. 17 (US 52/IL 64) OVER MISSISSIPPI RIVER SECTION 6000 M-1 CARROLL COUNTY (IL) JACKSON COUNTY (IA) STRUCTURE NO. 008-6000



STS CONSULTANTS 111 NE Jefferson Ave. Peoria, Illinois 61602 Ph(309)676-8464 FAX(309)676-5445 IL Design Firm Reg. No. 184-001518