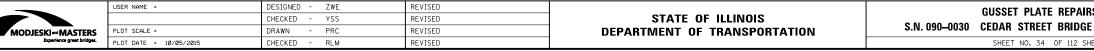




€ Strut-

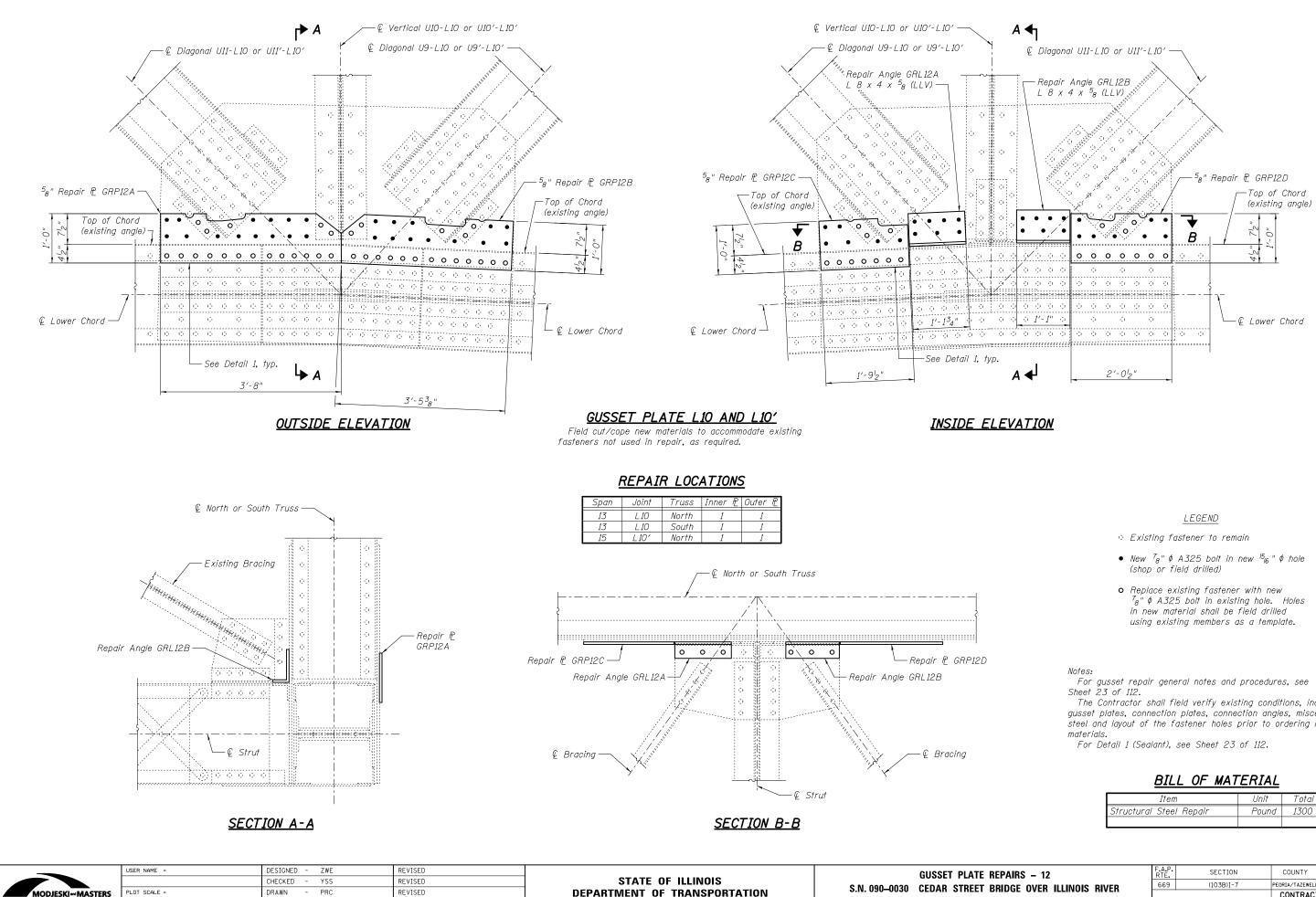


gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

Item	Unit	Total
Structural Steel Repair	Pound	160

PAIRS – 11	F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7		PEORIA/TAZEWELL	180	102
				CONTRACT	NO. 6	8A93
112 SHEETS		ILLING	IS FED. A.	ID PROJECT		



MODJE	SKI and MASTERS Experience great bridges.

PLOT DATE = 10/05/2015

CHECKED - RLM

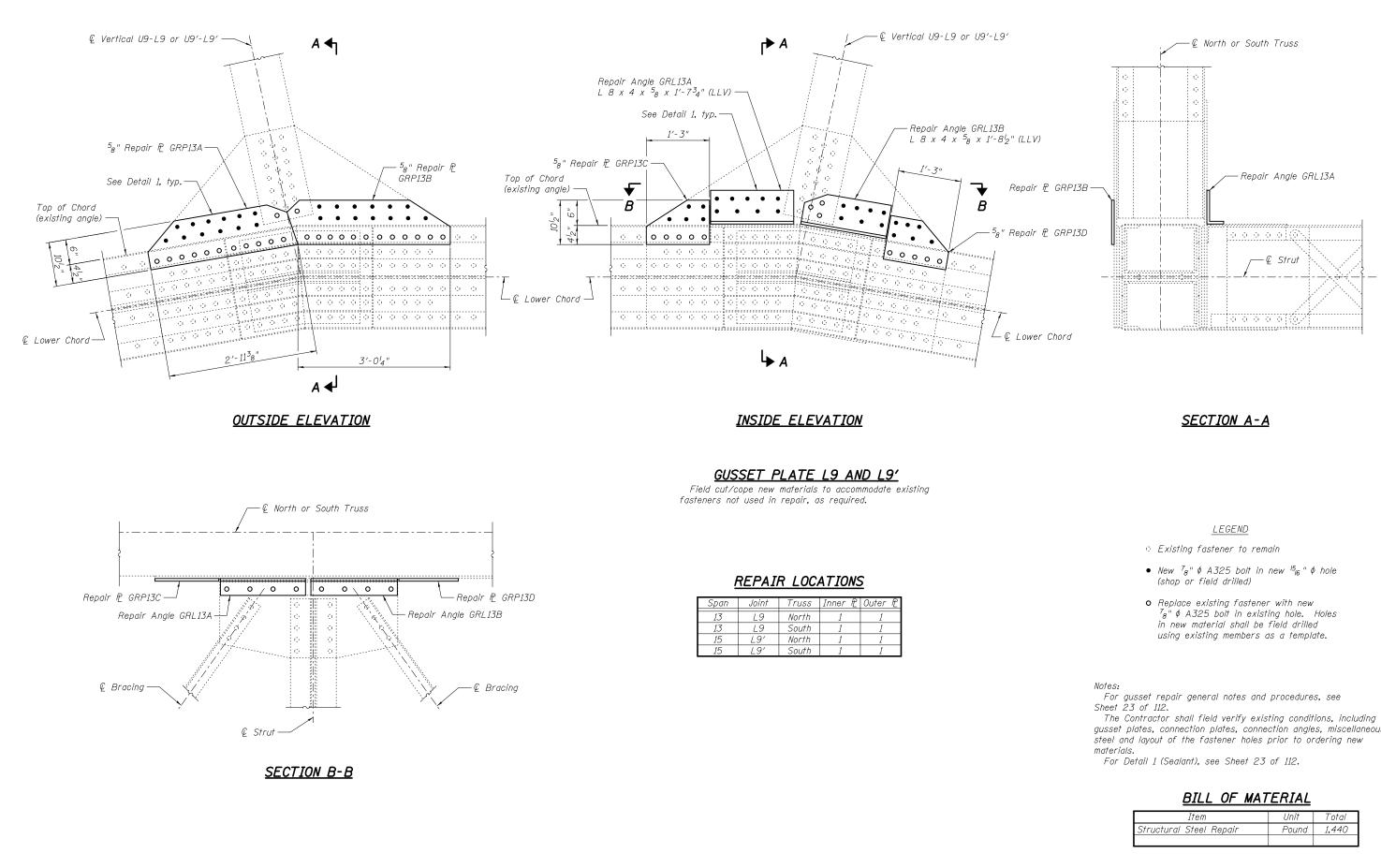
REVISED

	GUSSET	Ρ	LATE	R	EP
S.N. 090–0030	CEDAR	ST	REET	B	RI
	SHEET	NIO	35	ΛF	11

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new

Item	Unit	Total
Structural Steel Repair	Pound	1300

					-		-	-
PAIRS – 12	F.A.P. RTE.	SECT	LION		COUN	ITY	TOTAL SHEETS	
RIDGE OVER ILLINOIS RIVER	669	(103E	3)I-7		PEORIA/TA	ZEWELL	180	103
					CONT	RACT	. NO.	68A93
112 SHEETS			ILLINOIS	FED. AI	ID PROJEC	т		



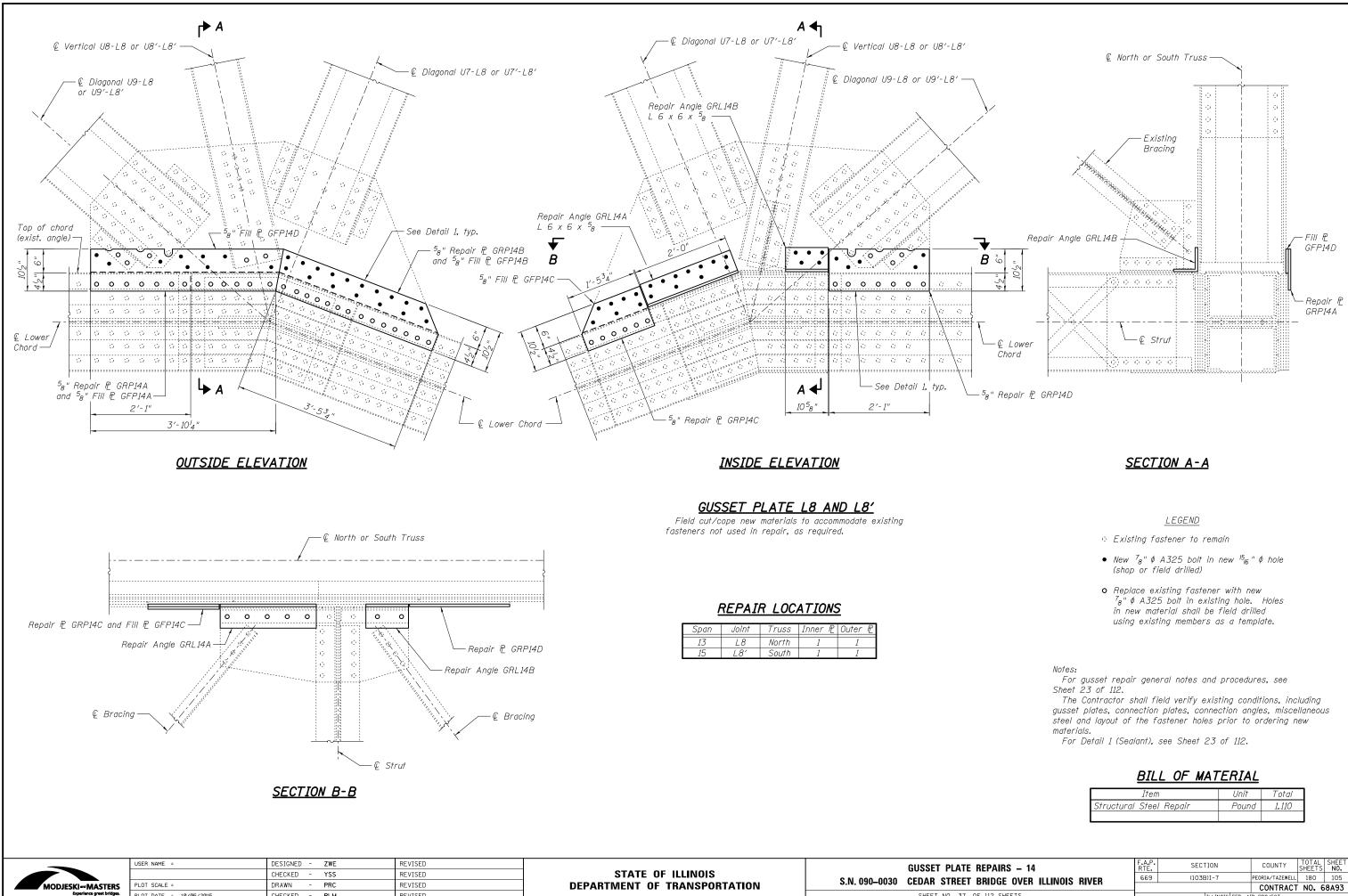
MODJESKI and MASTER Experience great bridg	

	USER NAME =	DESIGNED - ZWE CHECKED - YSS	REVISED REVISED	STATE OF ILLINOIS		GUSSET PLATE REPA
ASTERS	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 090–0030	CEDAR STREET BRID
great bridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED			SHEET NO. 36 OF 112

gusset plates, connection plates, connection angles, miscellaneous

Item	Unit	Total
Structural Steel Repair	Pound	1,440

EPAIRS – 13	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL	180	104
	1		CONTRACT	. NO. 6	8A93
112 SHEETS		ILLINOIS FED.	AID PROJECT		

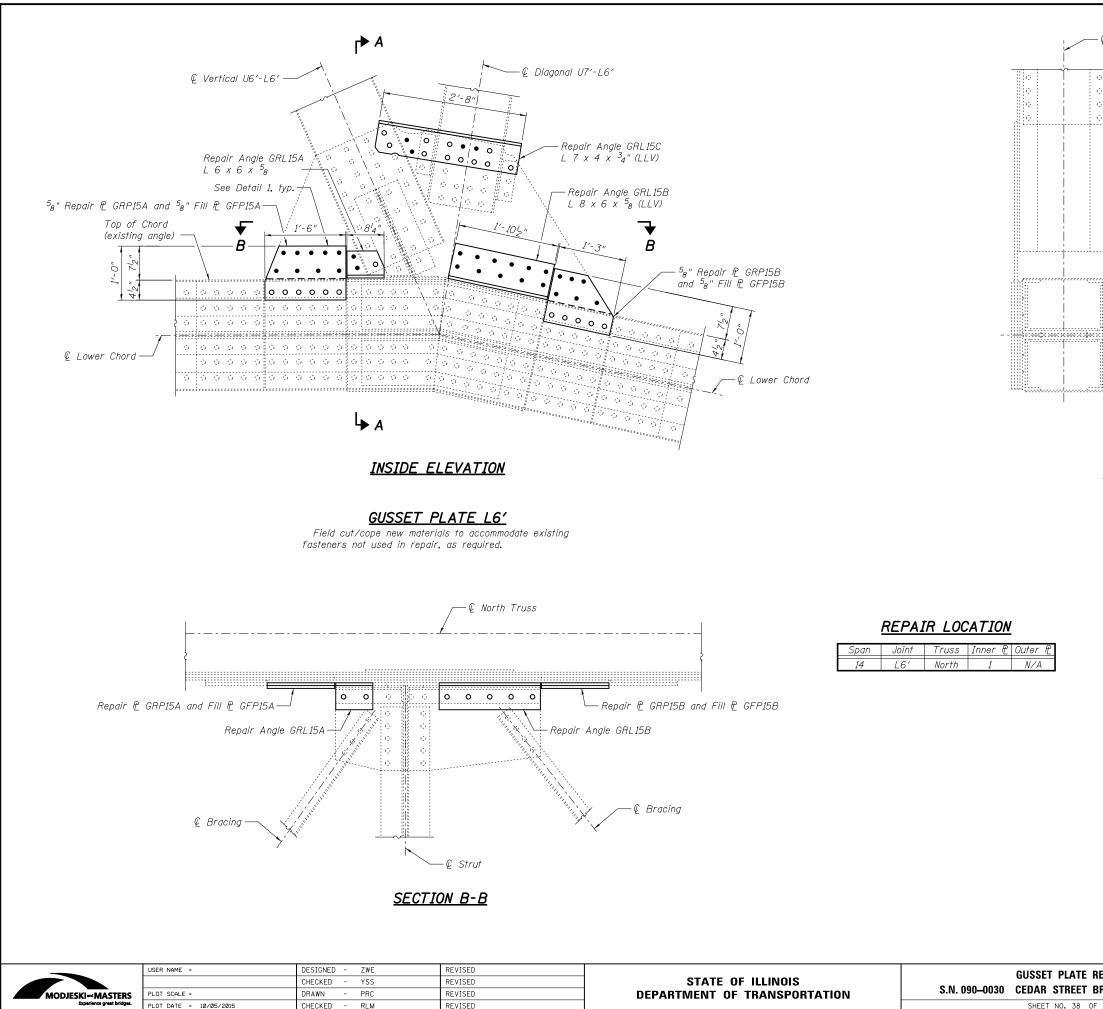


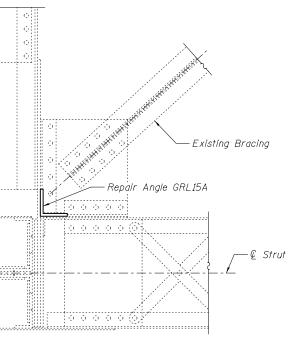
PLOT DATE = 10/05/2015

CHECKED - RLM

REVISED

PAIRS – 14		SECTION		COUNTY	SHEETS	NO.
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7		PEORIA/TAZEWELL	180	105
				CONTRACT	NO. 6	8A93
112 SHEETS		ILLINOIS F	ED. AI	D PROJECT		





SECTION A-A

LEGEND

- Existing fastener to remain
- New ⁷₈" φ A325 bolt in new ¹⁵₁₆" φ hole (shop or field drilled)
- Replace existing fastener with new $7_8'' \phi$ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

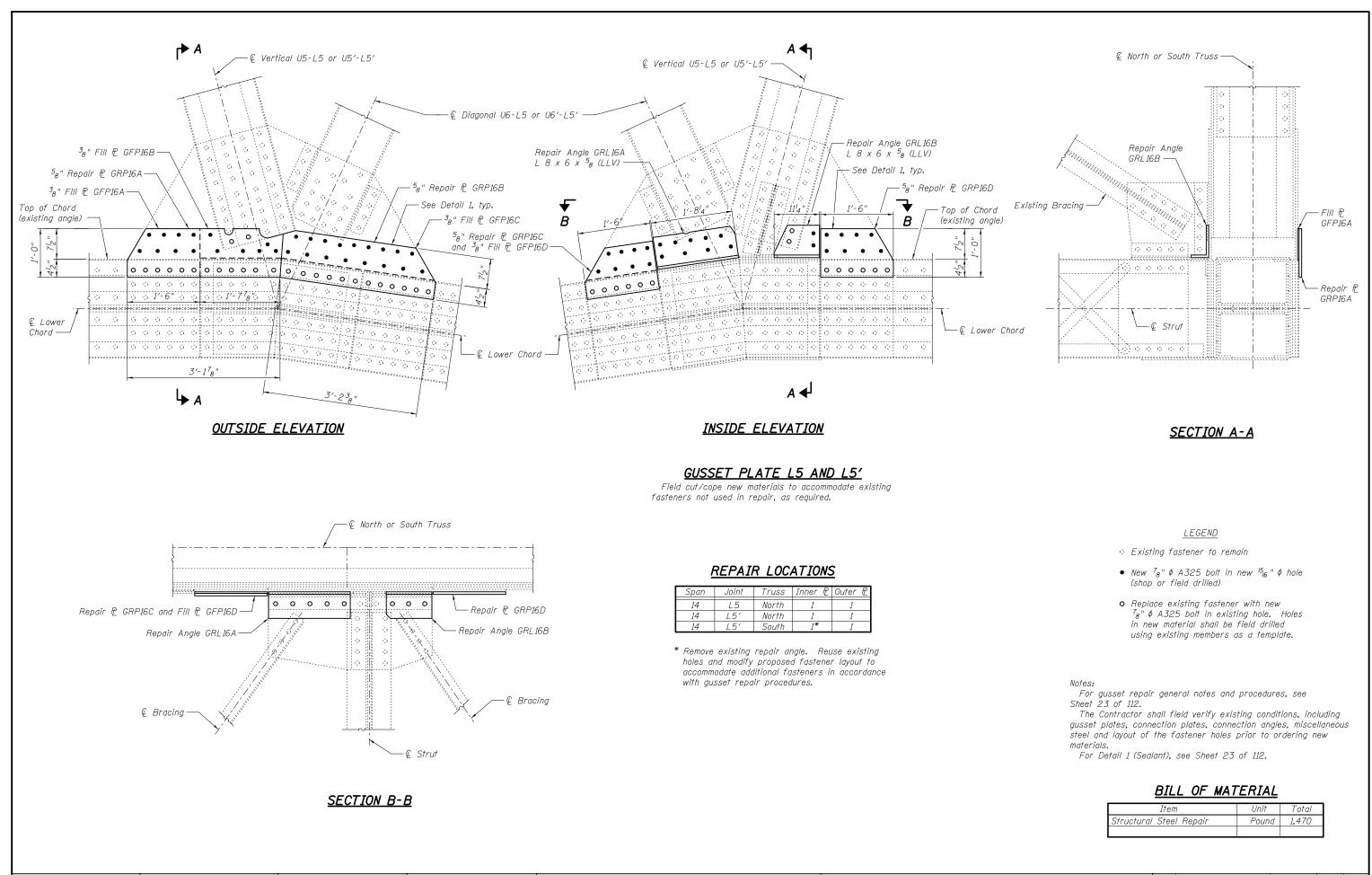
For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

Item	Unit	Total
Structural Steel Repair	Pound	310

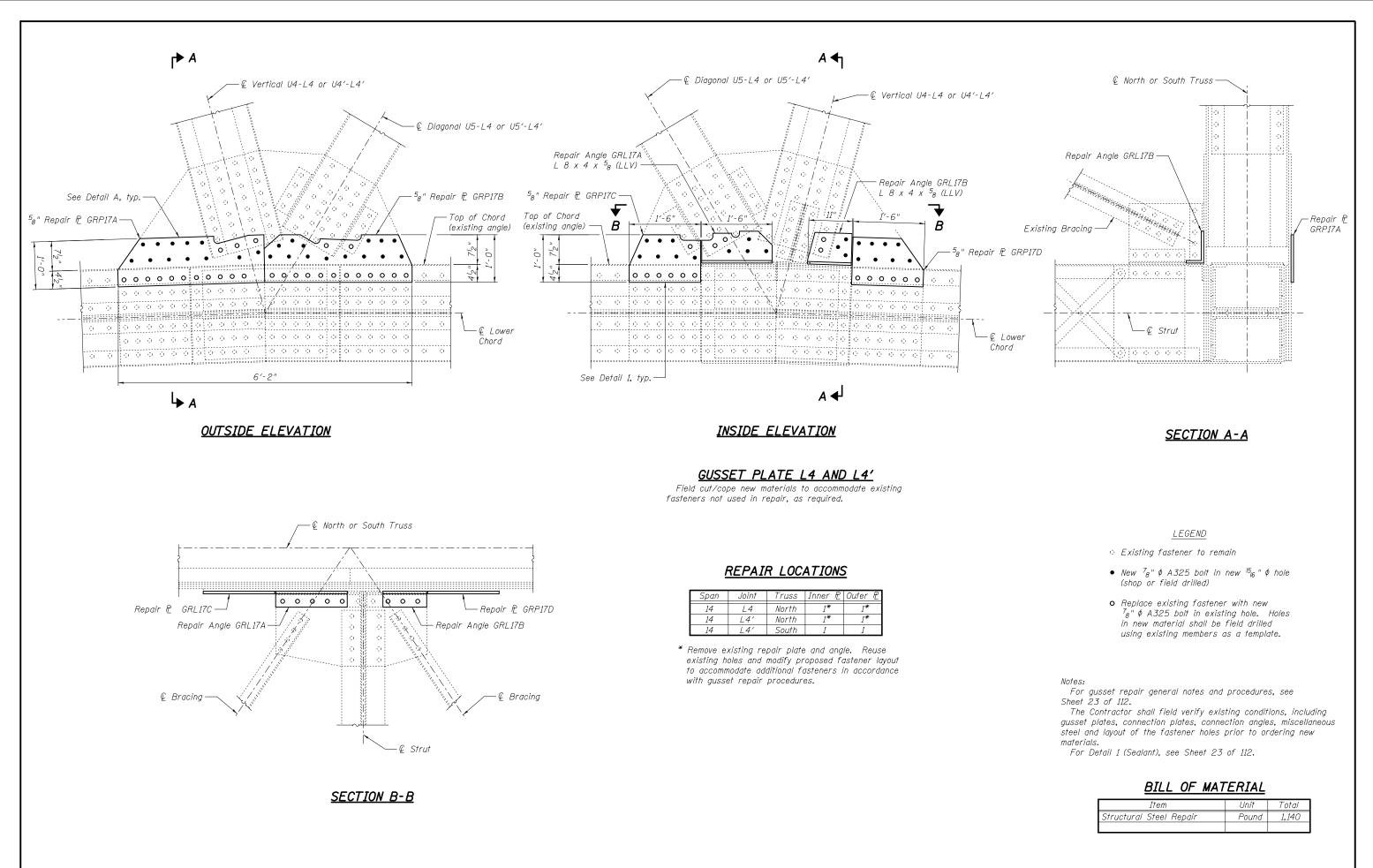
	-		-	-	-
PAIRS – 15	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL	180	106
NIDGE OVER ILLINDIS RIVER			CONTRACT	NO. 6	8A93
112 SHEETS		ILLINOIS FED. /	VID PROJECT		



MODJE	SKI and MASTERS Experience great bridges.

	USER NAME =	DESIGNED - ZWE CHECKED - YSS	REVISED REVISED	STATE OF ILLINOIS		GUSSET PLATE REPA
ERS	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 090–0030	CEDAR STREET BRID
oridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED			SHEET NO. 39 OF 112

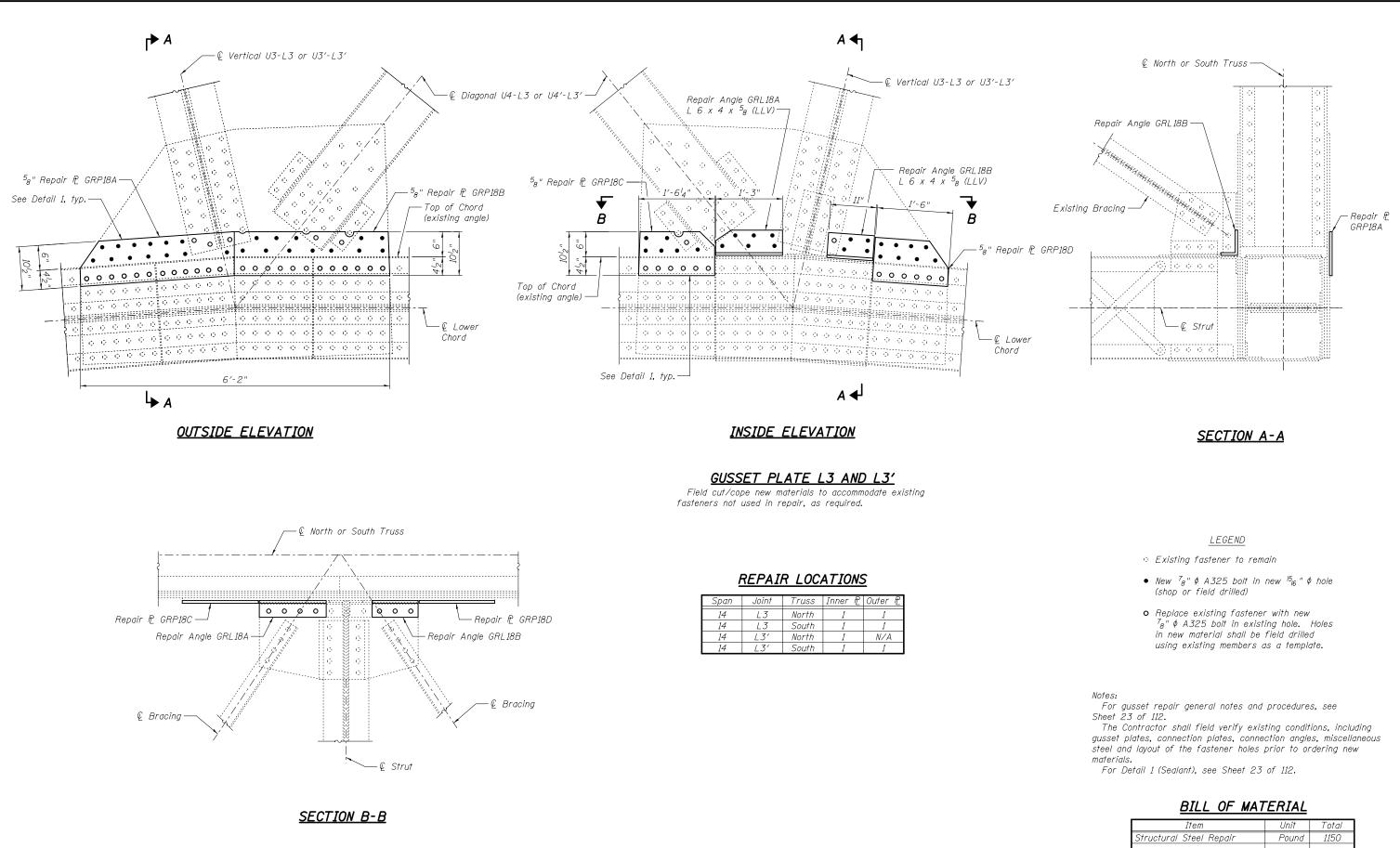
PAIRS – 16		SECTION		COUNTY	SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7		PEORIA/TAZEWELL	180	107
IDGE OVER ILLINUIS RIVER				CONTRACT	NO. 6	58A93
112 SHEETS		ILLINOIS	FED. A1	ID PROJECT		





	USER NAME =	DESIGNED - ZWE	REVISED			GUSSET PLATE REPA
		CHECKED - YSS	REVISED	STATE OF ILLINOIS	C NI 000 0000	
STERS	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 090–0030	CEDAR STREET BRID
at bridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED			SHEET NO. 40 OF 112

EPAIRS – 17	F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER		(103B)I-7		PEORIA/TAZEWELL	180	108
				CONTRACT	NO. 6	8A93
112 SHEETS		ILLINOIS	S FED. A	ID PROJECT		

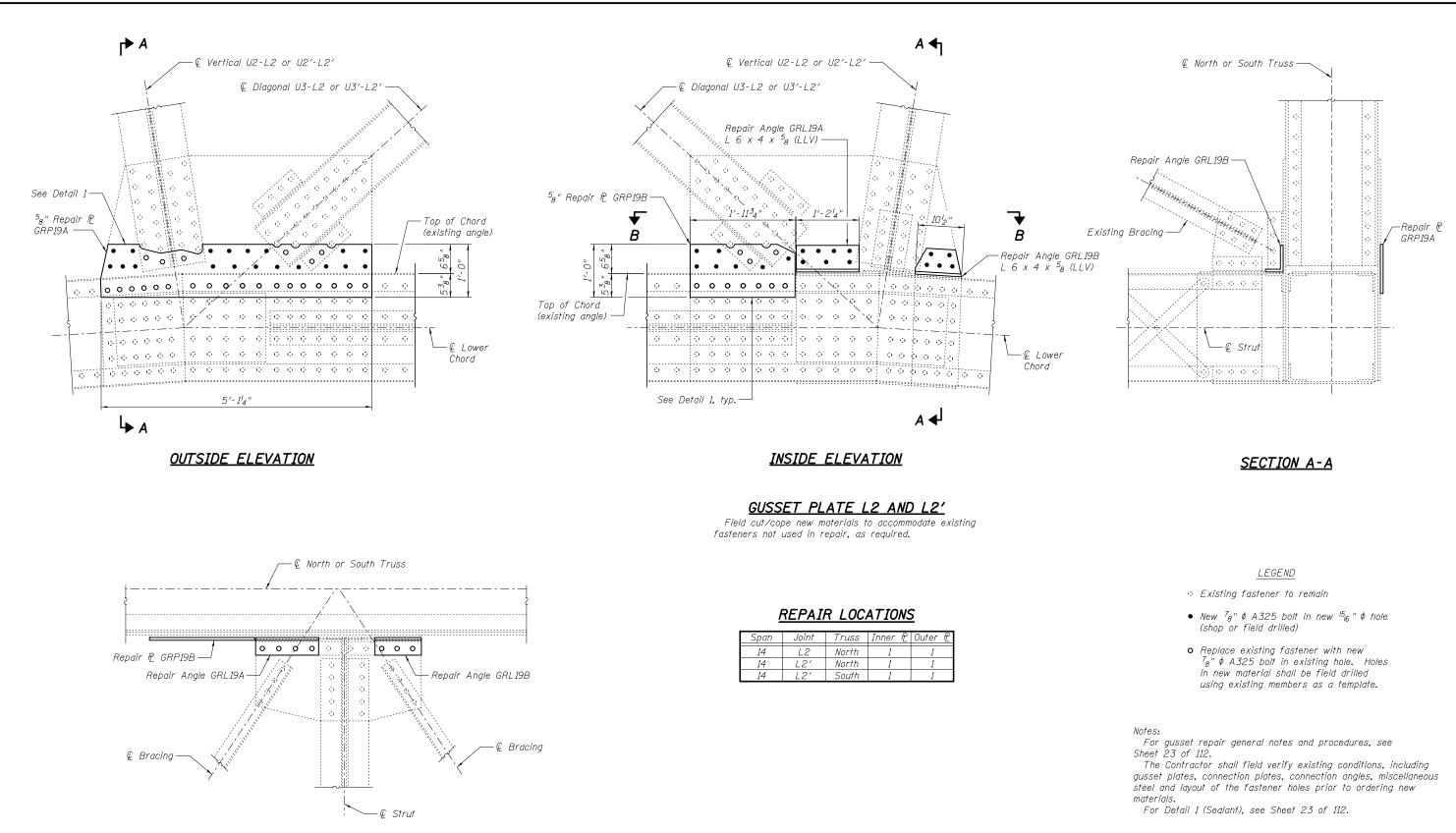


MODJESKI MASTERS	
Experience great bridges.	

	USER NAME =	DESIGNED - ZWE	REVISED			GUSSET PLATE REPA
		CHECKED - YSS	REVISED	STATE OF ILLINOIS	0 N 000 0000	
STERS	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 090–0030	CEDAR STREET BRIDO
reat bridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED			SHEET NO. 41 OF 112

Item	Unit	Total
Structural Steel Repair	Pound	1150

EPAIRS – 18	F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER		(103B)I-7		PEORIA/TAZEWELL	180	109
				CONTRACT	NO. 6	8A93
112 SHEETS		ILLINOIS FE	ED. AI	D PROJECT		

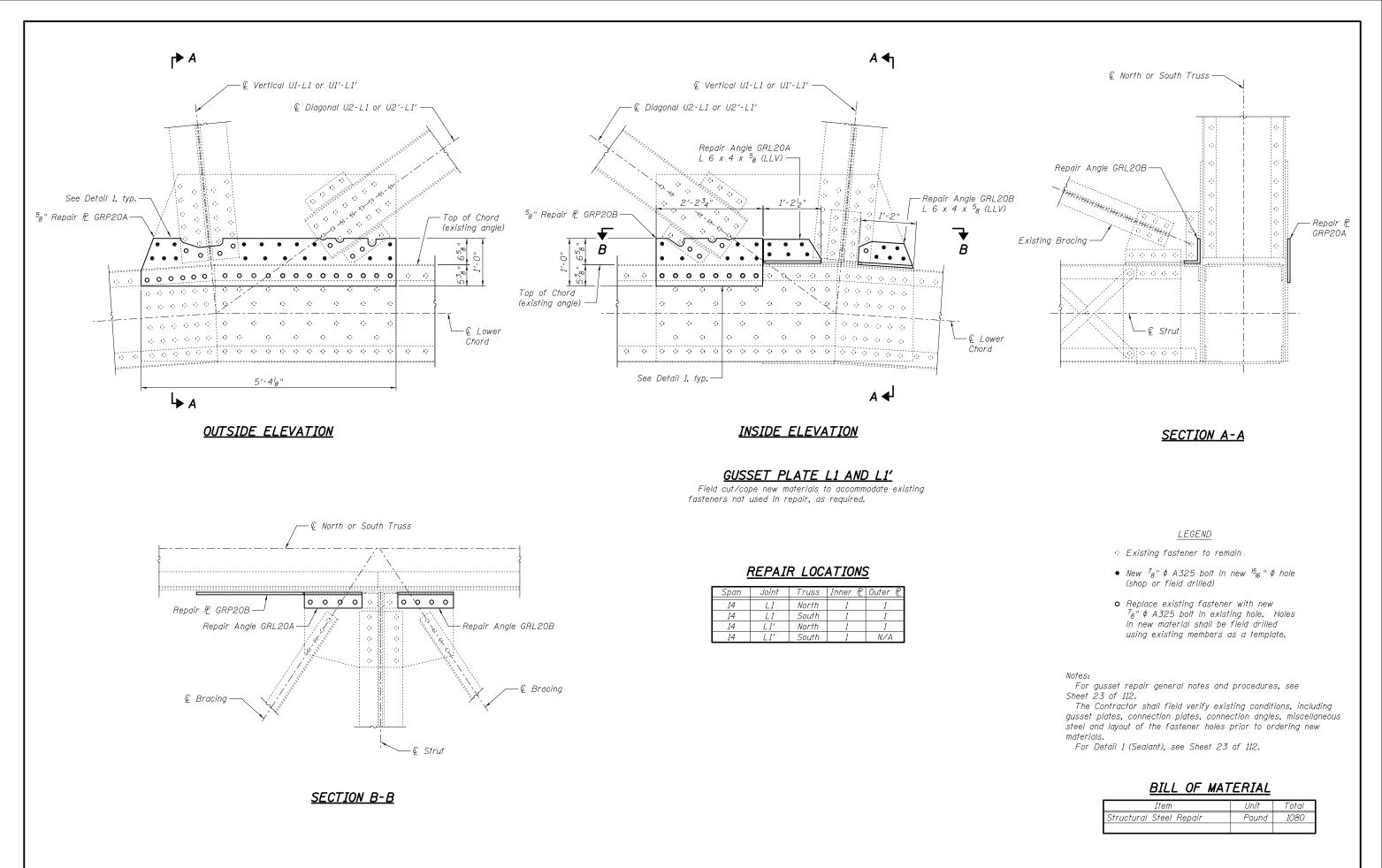


SECTION B-B



	USER NAME =		REVISED		GUSSET PLATE REPAIRS – 19	F.A.P. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
ASTERS	PLOT SCALE =	CHECKED - YSS DRAWN - PRC	REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL 180 110 CONTRACT NO. 68A93
e great bridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED		SHEET NO. 42 OF 112 SHEETS		ILLINOIS FED. /	AID PROJECT

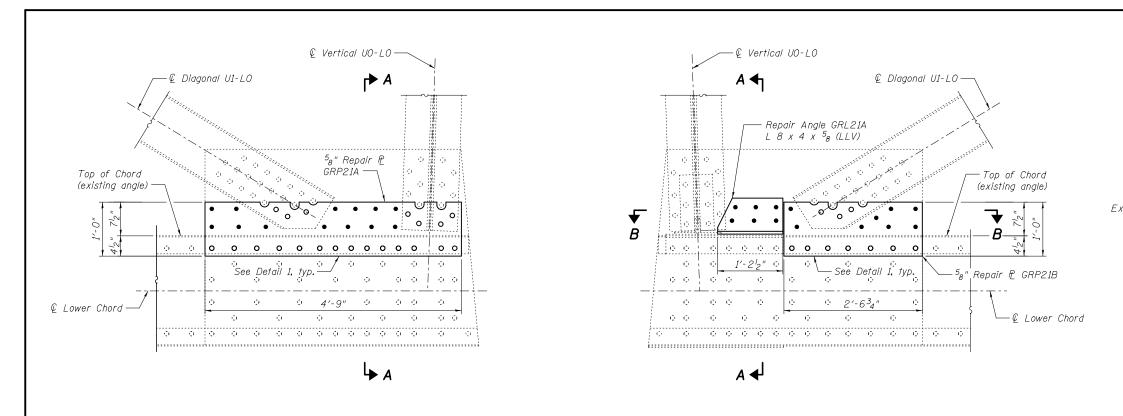
Item	Unit	Total
Structural Steel Repair	Pound	870





	USER NAME =	DESIGNED - ZWE CHECKED - YSS	REVISED REVISED	STATE OF ILLINOIS		GUSSET PLATE REPA
STERS	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 090–0030	CEDAR STREET BRID
reat bridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED			SHEET NO. 43 OF 112

PAIRS – 20	F.A.P. RTE	SECTIO	ON		COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669	(103B)I	I-7		PEORIA/TAZEWELL	180	111
NDGE OVEN ILLINDIS NIVEN					CONTRACT	NO. 6	8A93
112 SHEETS		IL	LLINOIS	FED. A	ID PROJECT		

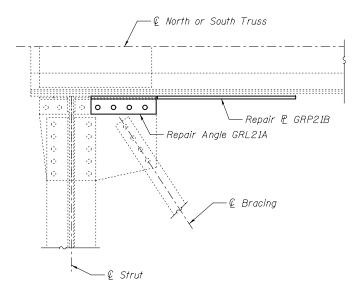


OUTSIDE ELEVATION

INSIDE ELEVATION

GUSSET PLATE LO

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.



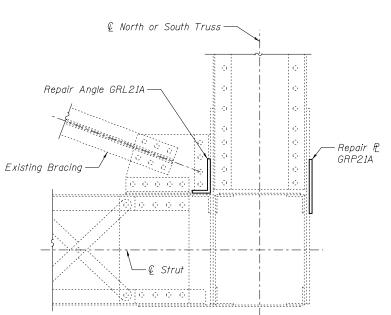
SECTION B-B



	USER NAME =	DESIGNED - ZWE	REVISED			GUSSET PLATE REP
		CHECKED - YSS	REVISED	STATE OF ILLINOIS		
STERS	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 090–0030	CEDAR STREET BRID
reat bridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED			SHEET NO. 44 OF 112

REPAIR LOCATIONS

Span	Joint	Truss	Inner P	Outer P
14	LO	North	1	1
14	LO	South	1	1



SECTION A-A

LEGEND

- 🐵 Existing fastener to remain
- New ⁷₈" φ A325 bolt in new ¹⁵₁₆" φ hole (shop or field drilled)
- Replace existing fastener with new $7_{g''} \phi A325$ bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

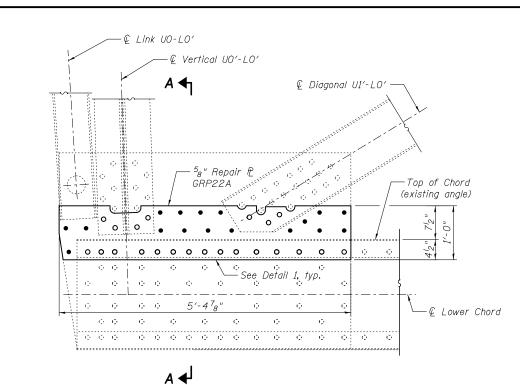
For gusset repair general notes and procedures, see Sheet 23 of 112.

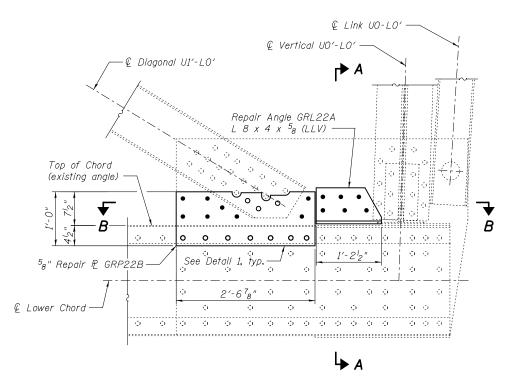
The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

Item	Unit	Total
Structural Steel Repair	Pound	540

PAIRS – 21	F.A.P. RTE.	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669	(103E	3)I-7		PEORIA/TAZEWELL	180	112
NDGE OVEN ILLINDIS NIVEN					CONTRACT	NO. 6	8A93
112 SHEETS			ILLINOIS	FED. AI	ID PROJECT		





OUTSIDE ELEVATION

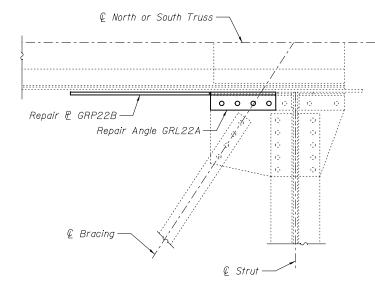
INSIDE ELEVATION

<u>GUSSET PLATE LO'</u> Field cut/cope new materials to accommodate existing

fasteners not used in repair, as required.



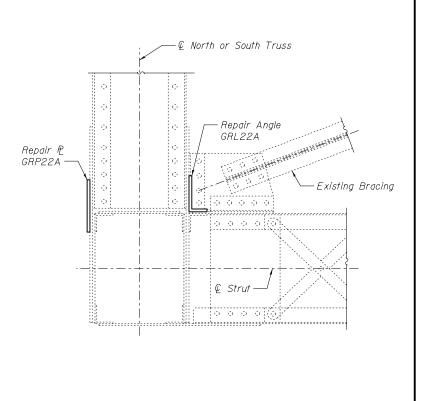
Span	Joint	Truss	Inner P	Outer P
14	LO'	North	1	1
14	LO'	South	1	1



SECTION B-B



	USER NAME =	DESIGNED - ZWE	REVISED		GUSSET PLATE REPA
		CHECKED - YSS	REVISED	STATE OF ILLINOIS	
ASTERS	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 090–0030 CEDAR STREET BRID
e great bridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED		SHEET NO. 45 OF 112



SECTION A-A

LEGEND

- Existing fastener to remain
- New ⁷₈" φ A325 bolt in new ¹⁵₁₆" φ hole (shop or field drilled)
- Replace existing fastener with new $7_{g''} \phi A325$ bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

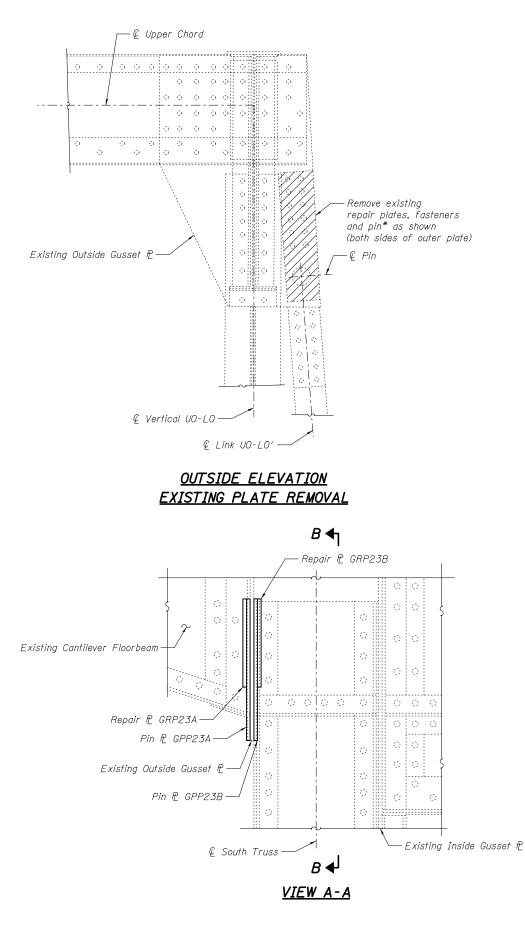
For gusset repair general notes and procedures, see Sheet 23 of 112.

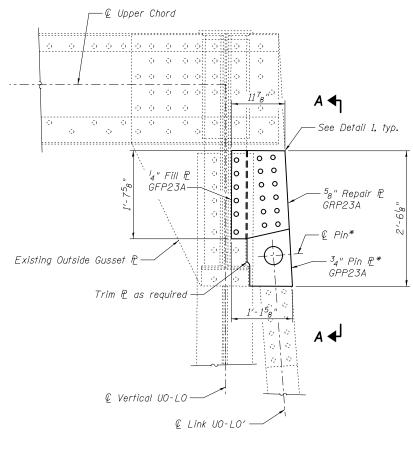
The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

Item	Unit	Total
Structural Steel Repair	Pound	590

PAIRS – 22	F.A.P. RTE	SECTI	ION		COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669	(103B))I-7		PEORIA/TAZEWELL	180	113
NDGE OVEN ILLINDIS NIVEN					CONTRACT	NO. 6	8A93
112 SHEETS		I	LLINOIS	FED. AI	ID PROJECT		





OUTSIDE ELEVATION REPAIR PLATE INSTALLATION

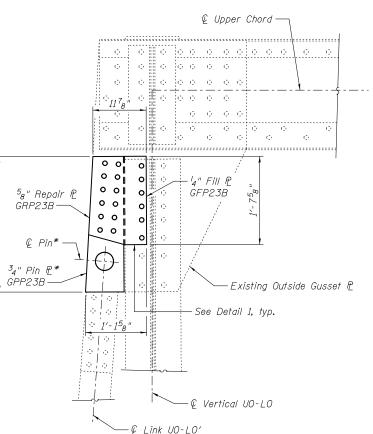
GUSSET PLATE UOS

* Pin to be removed and replaced. Hole in existing gusset plate to be line bored to required diameter for new pin and bushing, see Sheet 74 and 75 of 112. Hole in proposed ${}^{3}_{4}$ " pin plates to be shop drilled to ${}^{3}_{4}$ " and field bored to final diameter with existing gusset plate to ensure proper fit.

REPAIR LOCATIONS

Span	Joint	Truss	Inner P	Outer P2
14	UO	South	N/A	1

-	USER NAME =	DESIGNED - RLM	REVISED		GUSSET PLATE REPAIRS
		CHECKED - YSS	REVISED	STATE OF ILLINOIS	
MODJESKI	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 090–0030 CEDAR STREET BRIDGE
Experience great bridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED		SHEET NO. 46 OF 112 SHE



VIEW B-B

LEGEND

• Existing fastener to remain

• Replace existing fastener with new 7_8 " ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

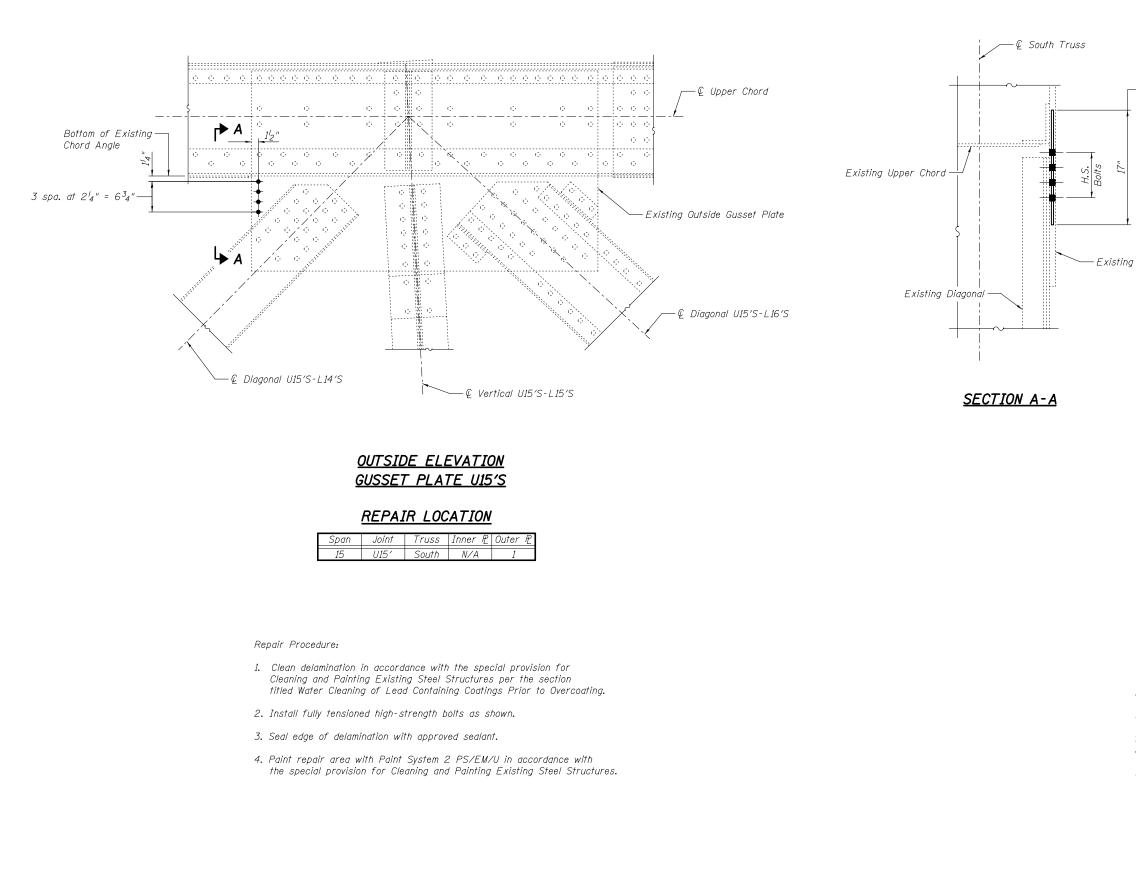
The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

Work on this sheet to be completed in coordination with main span pin and link replacements shown on Sheet 74 and 75 of 112.

Item	Unit	Total
Structural Steel Repair	Pound	250

PAIRS – 23	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER		(103B)I-7	PEORIA/TAZEWELL	180	114
			CONTRACT	NO. 6	8A93
112 SHEETS		ILLINOIS FED.	AID PROJECT		



	USER NAME =	DESIGNED -	ZWE	REVISED		GUSSET PLATE REPAIRS – 24	F.A.P. RTF.	SECTION	COUNTY TOTAL SHEET
		CHECKED -	YSS	REVISED	STATE OF ILLINOIS	S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL 180 115
TERS	PLOT SCALE =	DRAWN -	PRC	REVISED	DEPARTMENT OF TRANSPORTATION	3.N. 090-0030 GEDAN STREET BRIDGE OVEN ILLINOIS RIVEN			CONTRACT NO. 68A93
bridges.	PLOT DATE = 10/05/2015	CHECKED -	RLM	REVISED		SHEET NO. 47 OF 112 SHEETS		ILLINOIS FED.	AID PROJECT

-Existing Outside Gusset Plate

LEGEND

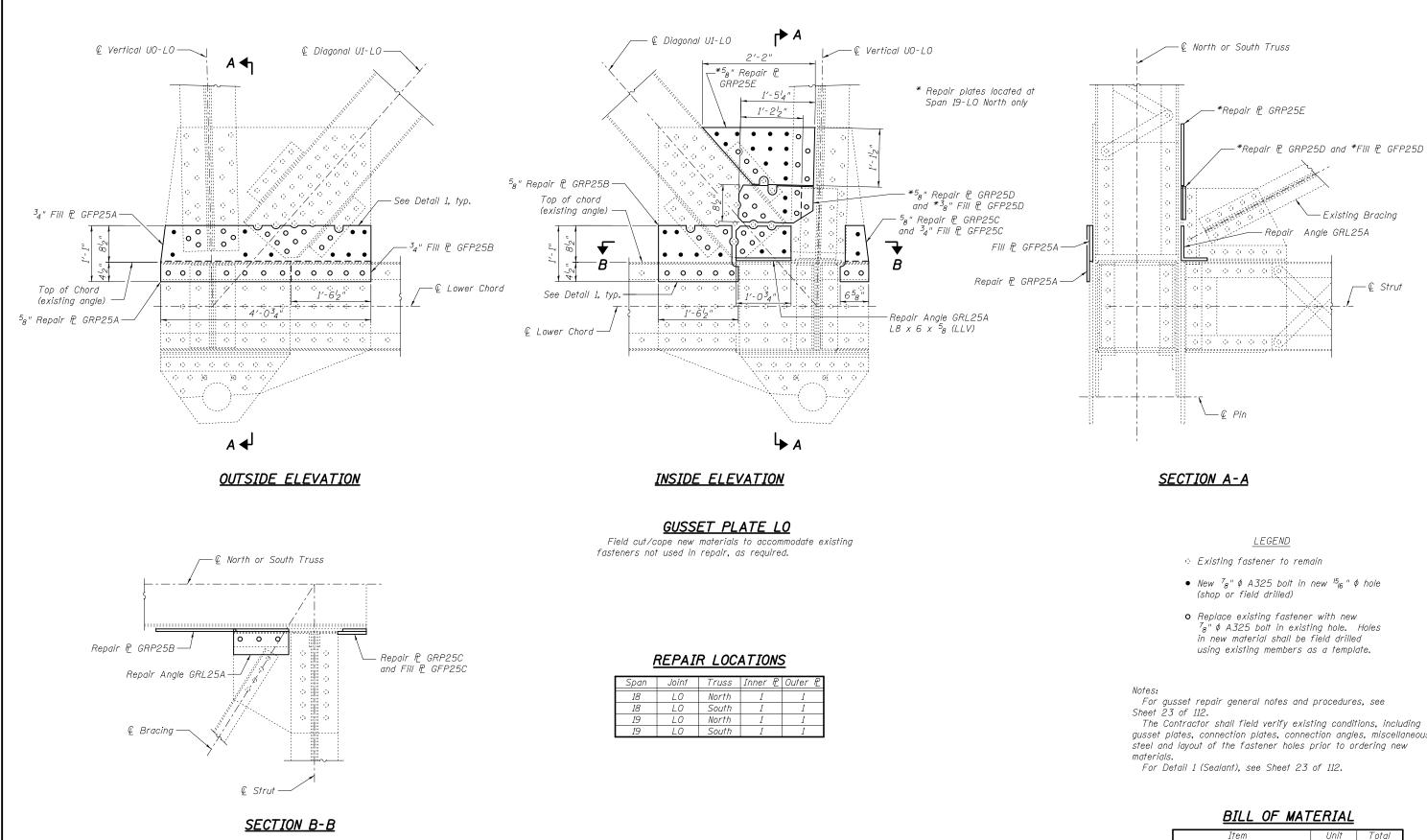
• Existing fastener to remain

• New ⁷₈" \$\$ A325 bolt in new ¹⁵₁₆ "\$\$ hole

Notes: For gusset repair general notes and procedures, see Sheet 23 of 112. The sealant shall be a polyurethane sealant compatible with

the proposed paint system. The Contractor shall submit the sealant to the Engineer for approval prior to use. Cost of cleaning, sealing and painting delamination included with Structural Steel Repair.

Item	Unit	Total
Structural Steel Repair	Pound	10

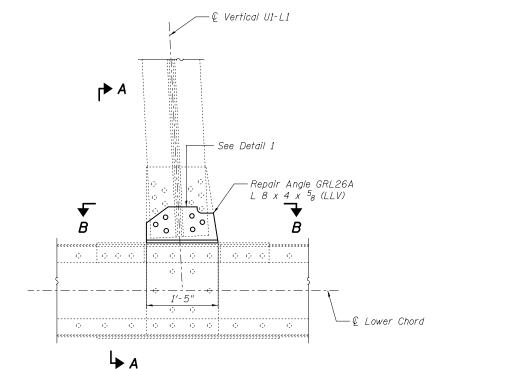


-	USER NAME =	DESIGNED - ZWE	REVISED		GUSSET PLATE REP
		CHECKED - YSS	REVISED	STATE OF ILLINOIS	
MODJESKI MASTERS	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 090–0030 CEDAR STREET BRID
Experience great bridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED		SHEET NO, 48 OF 112

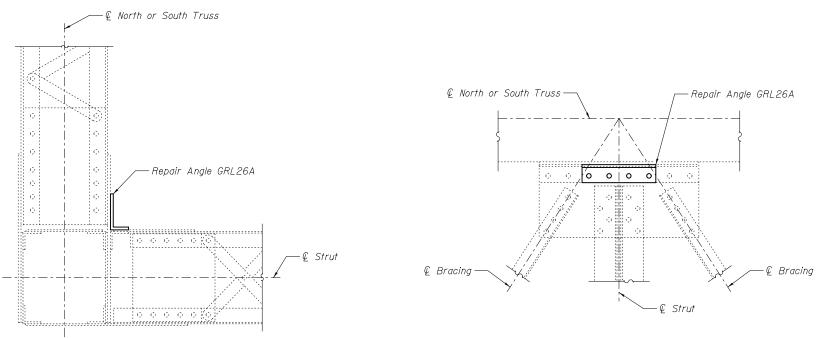
gusset plates, connection plates, connection angles, miscellaneous

Item	Unit	Total
Structural Steel Repair	Pound	1620

PAIRS – 25	F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7		PEORIA/TAZEWELL	180	116
NDGE OVEN ILLINDIS NIVEN				CONTRACT	NO. 6	8A93
112 SHEETS		ILLINOIS FED.	۰. AI	D PROJECT		
			_			



INSIDE ELEVATION



<u>SECTION A-A</u>



REPAIR LOCATIONS

Span	Joint	Truss	Inner P	Outer P2
18	L1	North	1	N/A
18	L1	South	1	N/A

	USER NAME =	DESIGNED - ZWE CHECKED - YSS	REVISED REVISED	STATE OF ILLINOIS	GUSSET PLATE REP
ASTERS	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 090–0030 CEDAR STREET BRII
great bridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED		SHEET NO. 49 OF 112

<u>SECTION B-B</u>

LEGEND

- Existing fastener to remain
- New ⁷₈" φ A325 bolt in new ¹⁵₁₆" φ hole (shop or field drilled)

Notes:

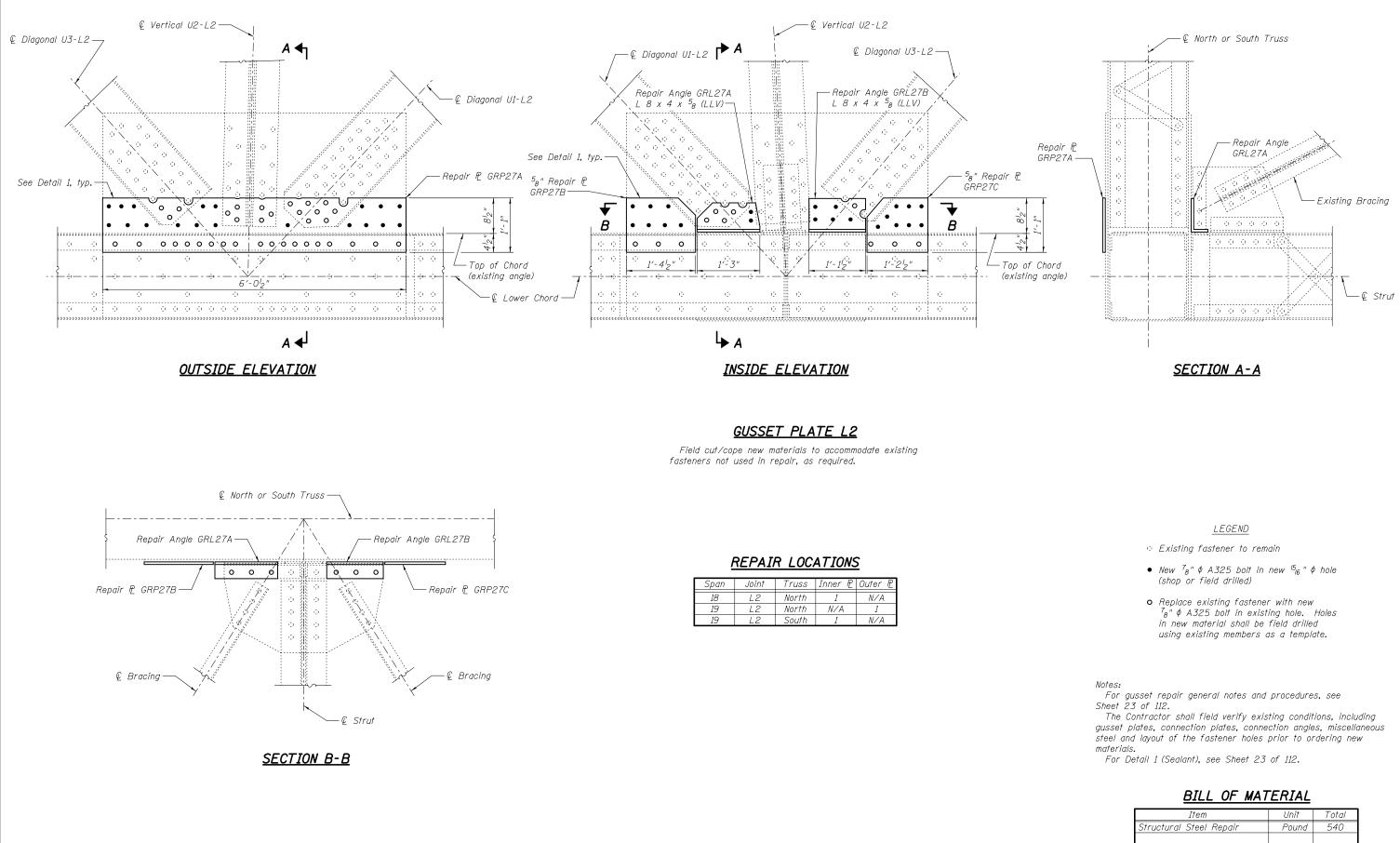
For gusset repair general notes and procedures, see Sheet 23 of 112.

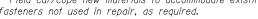
The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

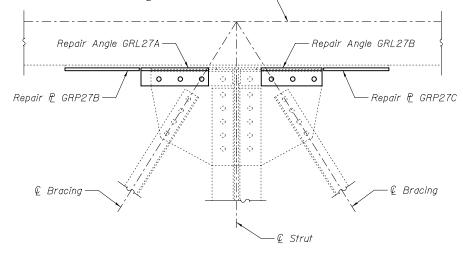
For Detail 1 (Sealant), see Sheet 23 of 112.

Item	Unit	Total
Structural Steel Repair	Pound	90

					-
PAIRS – 26 Ridge over Illinois River		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		(103B)I-7	PEORIA/TAZEWELL	180	117
			CONTRACT	. NO. 6	8A93
112 SHEETS		ILLINOIS FED. A	ID PROJECT		





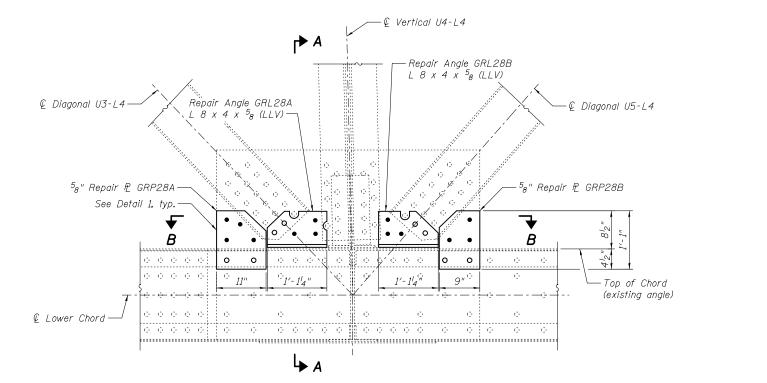


Span	Joint	Truss	Inner P	Outer 🖻
18	L2	North	1	N/A
19	L2	North	N/A	1
19	L2	South	1	N/A

MODJESKI	
Experience great bridges.	

	USER NAME =	DESIGNED - ZWE CHECKED - YSS	REVISED REVISED	STATE OF ILLINOIS		GUSSET PLATE REPA
STERS	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 090–0030	CEDAR STREET BRID
reat bridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED			SHEET NO. 50 OF 112

PAIRS – 27 Ndge over Illinois River		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		(103B)I-7	PEORIA/TAZEWELL	180	118
			CONTRACT	NO. 6	8A93
112 SHEETS	ILLINOIS FED. AID PROJECT				







0 0 0 0 0 0)|0 0 0 0 0 0

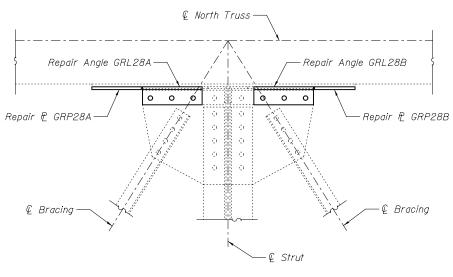
€ North Truss

GUSSET PLATE L4

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.

REPAIR LOCATION

1	Span	Joint	Truss	Inner P	Outer P
	19	L4	North	1	N/A



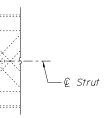




	USER NAME =	DESIGNED - ZWE	REVISED			GUSSET PLATE REPA
		CHECKED - YSS	REVISED	STATE OF ILLINOIS		
ASTERS	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 090–0030	CEDAR STREET BRID
great bridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED			SHEET NO. 51 OF 112

-Repair Angle GRL28A

— Existing Bracing



LEGEND

- Existing fastener to remain
- New ⁷₈" φ A325 bolt in new ¹⁵₁₆" φ hole (shop or field drilled)
- Replace existing fastener with new $7_{g''} \phi A325$ bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

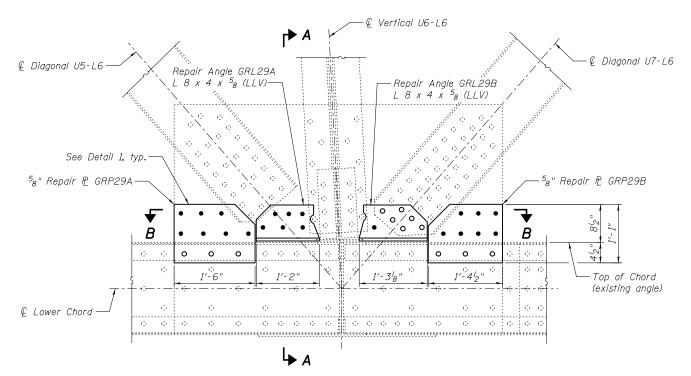
For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

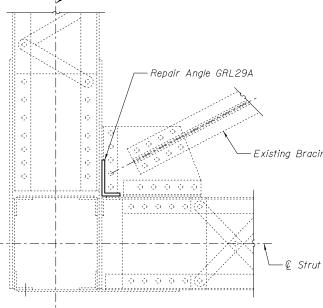
For Detail 1 (Sealant), see Sheet 23 of 112.

Item	Unit	Total
Structural Steel Repair	Pound	130

EPAIRS – 28	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER		(103B)I-7	PEORIA/TAZEWELL	180	119
			CONTRACT	. NO. 6	8A93
112 SHEETS		ILLINOIS FED.	AID PROJECT		







-€ North Truss

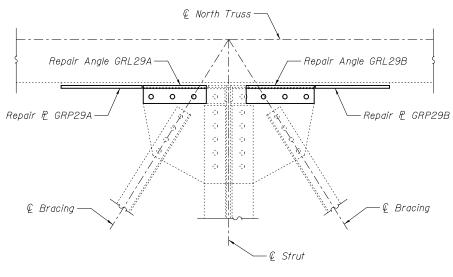
SECTION A-A

GUSSET PLATE L6

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.

REPAIR LOCATIONS

Span	Joint	Truss	Inner P	Outer P
18	L6	North	1	N/A
19	L6	North	1	N/A



SECTION B-B



	USER NAME =	DESIGNED - ZWE	REVISED		GUSSET PLATE REPA
		CHECKED - YSS	REVISED	STATE OF ILLINOIS	
ESKIMMASTERS	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 090–0030 CEDAR STREET BRIDO
Experience great bridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED		SHEET NO. 52 OF 112 S



Existing Bracing

LEGEND

• Existing fastener to remain

- New ⁷₈" φ A325 bolt in new ¹⁵₁₆" φ hole (shop or field drilled)
- Replace existing fastener with new $7_8'' \phi$ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

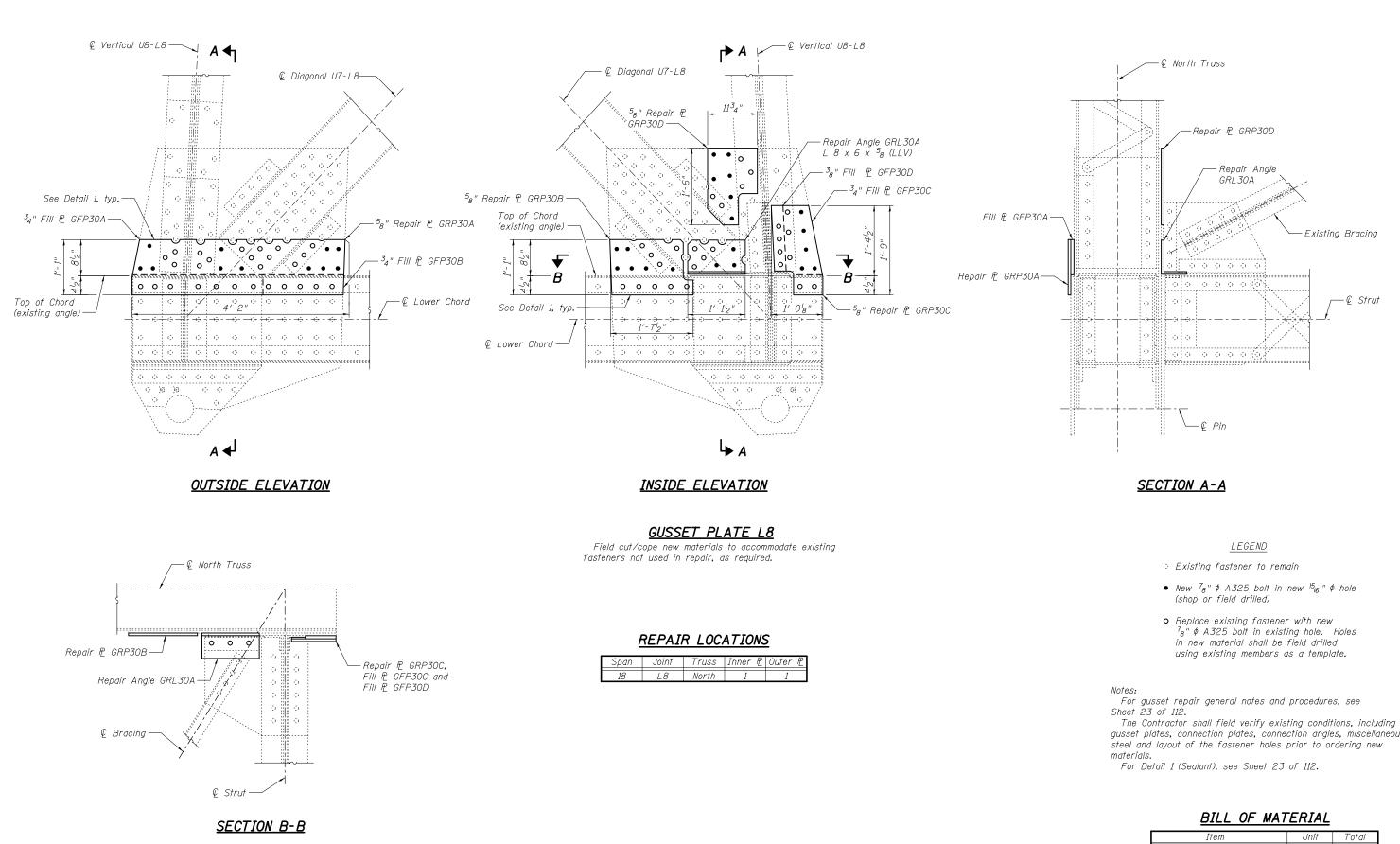
For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

Item	Unit	Total
Structural Steel Repair	Pound	180

EPAIRS – 29	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL	180	120
			CONTRACT	NO. 6	8A93
112 SHEETS		ILLINOIS FED.	AID PROJECT		

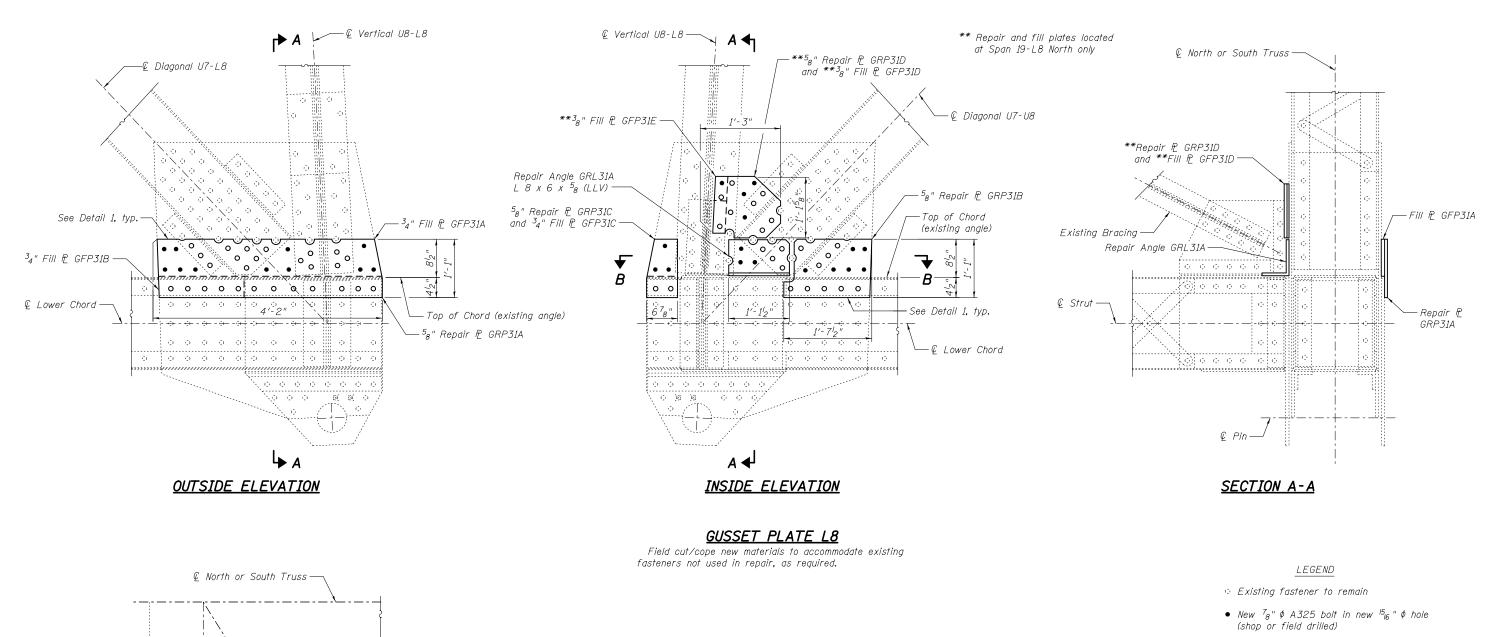


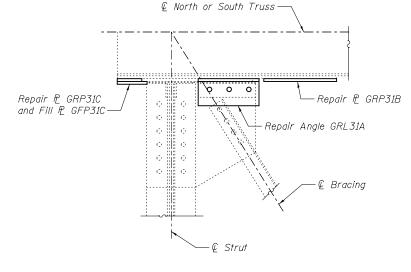
	USER NAME =	DESIGNED - ZWE CHECKED - YSS	REVISED REVISED	STATE OF ILLINOIS	GUSSET PLATE REPAIRS
MODJESKI	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 090-0030 CEDAR STREET BRIDGE 0
Experience great bridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED		SHEET NO. 53 OF 112 SHEET

gusset plates, connection plates, connection angles, miscellaneous

Item	Unit	Total
Structural Steel Repair	Pound	500

						-
PAIRS – 30	F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7		PEORIA/TAZEWELL	180	121
KIDGE OVER ILLINDIS RIVER				CONTRACT	NO. 6	8A93
112 SHEETS		ILLINOIS	FED. A	ID PROJECT		





SECTION B-B

REPAIR LOCATIONS

Span	Joint	Truss	Inner P	Outer 🖻
18	L8	South	1	1
19	L8	North	1*	1*
19	L8	South	1	1

* Remove existing repair angle and plate. Reuse existing holes and modify proposed fastener layout to accommodate additional fasteners in accordance with gusset repair procedures.



• Replace existing fastener with new $7_8'' \phi$ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

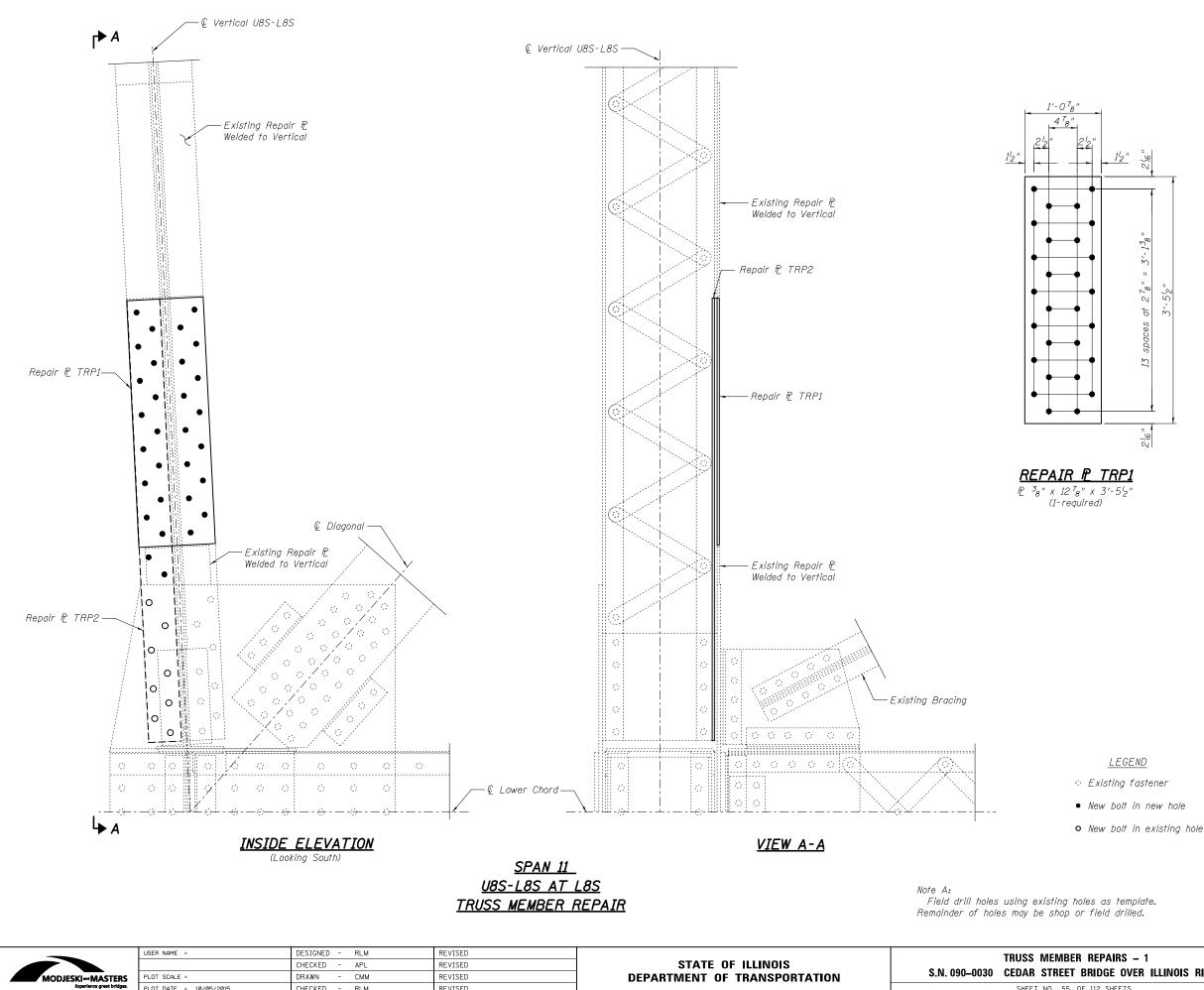
For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

Item	Unit	Total
Structural Steel Repair	Pound	1240

PAIRS – 31	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL	180	122
NDGE OVER ILLINOIS RIVER			CONTRACT	NO. 6	8A93
112 SHEETS		ILLINOIS FED. A	ID PROJECT		

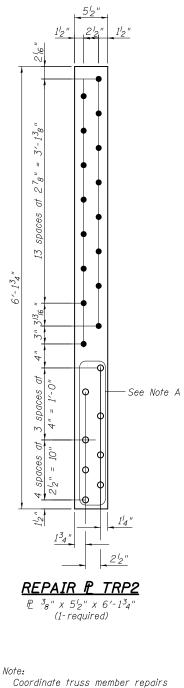


PLOT DATE = 10/05/2015

CHECKED - RLM

REVISED

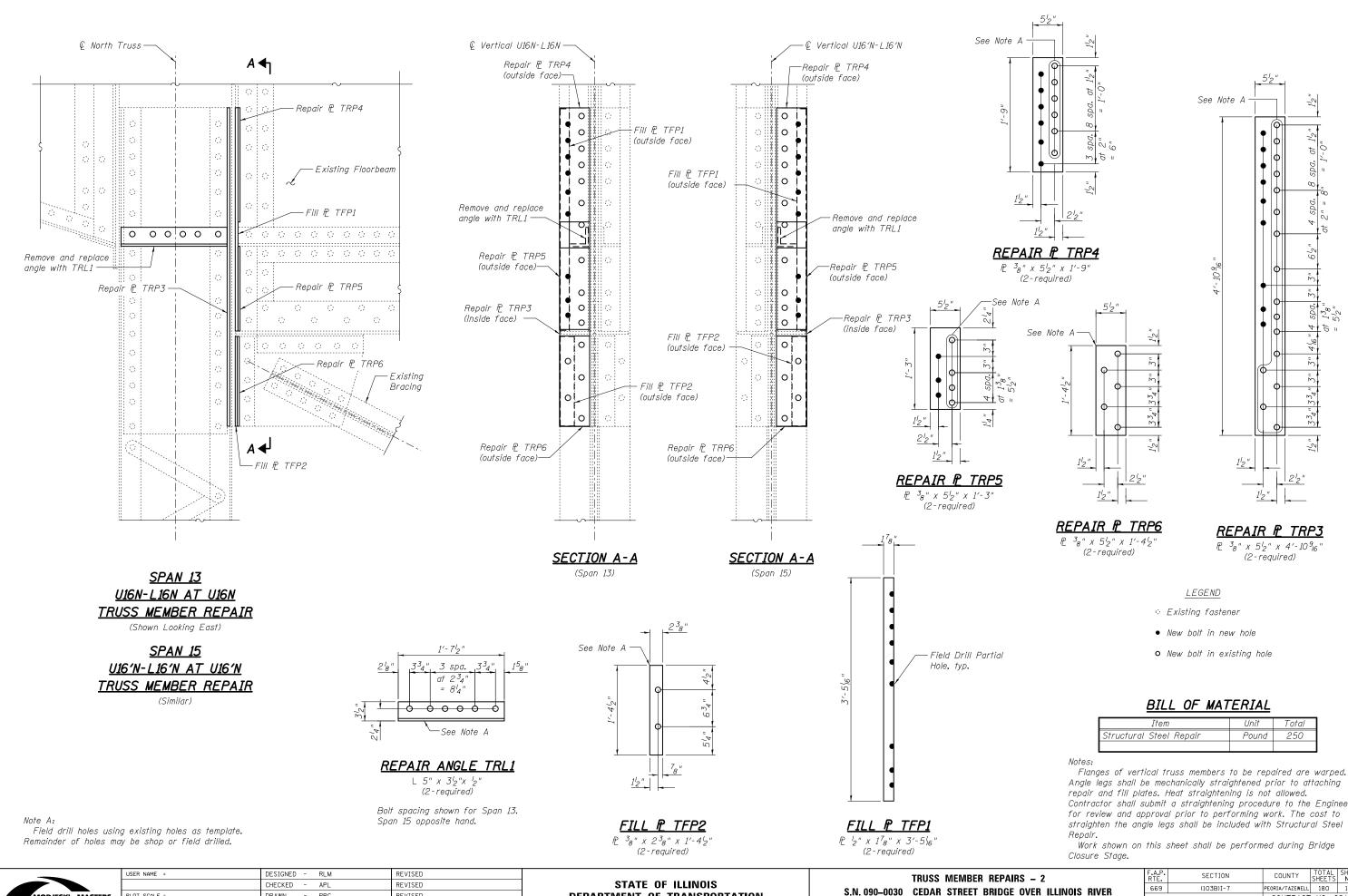
SHEET NO. 55 OF 1



with gusset plate repairs shown on Sheet 26 of 112.

Item	Unit	Total
Structural Steel Repair	Pound	140

REPAIRS – 1	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL	180	123
NIDGE OVEN ILLINGIS NIVEN			CONTRACT	NO. 6	8A93
112 SHEETS	ILLINOIS FED. AID PROJECT				

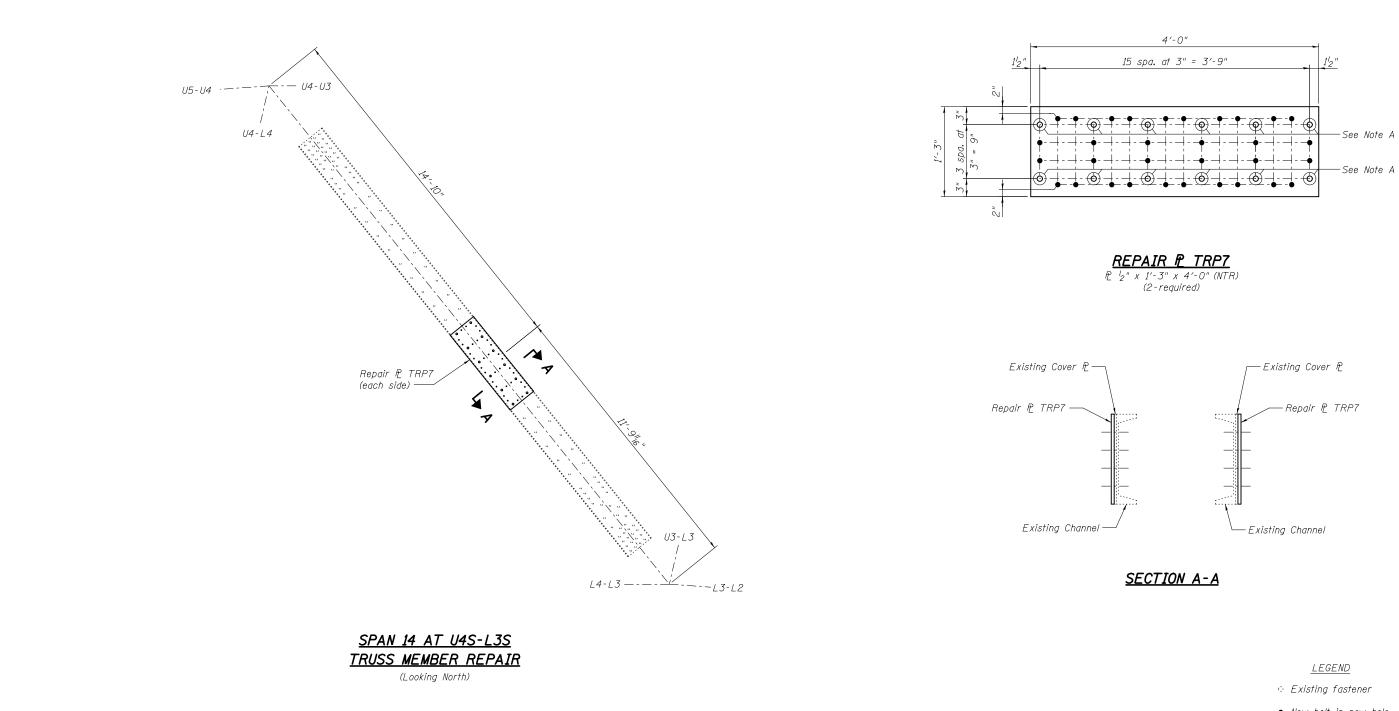


	USER NAME =	DESIGNED - RLM CHECKED - APL	REVISED	STATE OF ILLINOIS	TRUSS	
	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 090–0030 CEDAR	STRE
Experience great bridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED		SHEET	NO. 5

Item	Unit	Total
Structural Steel Repair	Pound	250

Angle legs shall be mechanically straightened prior to attaching Contractor shall submit a straightening procedure to the Engineer straighten the angle legs shall be included with Structural Steel

EMBER REPAIRS – 2 Freet Bridge over Illinois River		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		(103B)I-7	PEORIA/TAZEWELL	180	124
			CONTRACT	NO. 6	8A93
). 56 OF 112 SHEETS	ILLINOIS FED. AID PROJECT				



Note A: Field drill holes using existing holes as template. Remainder of holes may be shop or field drilled.

	USER NAME =	DESIGNED - RLM	REVISED		TRUSS MEMBER REPAIRS – 3	F.A.P. SECTION	COUNTY TOTAL SHEET SHEETS NO.
		CHECKED - APL	REVISED	STATE OF ILLINOIS	S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER	669 (103B)I-7	PEORIA/TAZEWELL 180 125
MODJESKI and MASTERS Experience great bridges.	PLOT SCALE =	DRAWN - AEC	REVISED	DEPARTMENT OF TRANSPORTATION		-	CONTRACT NO. 68A93
	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED		SHEET NO. 57 OF 112 SHEETS	ILLINOIS F	ED, AID PROJECT

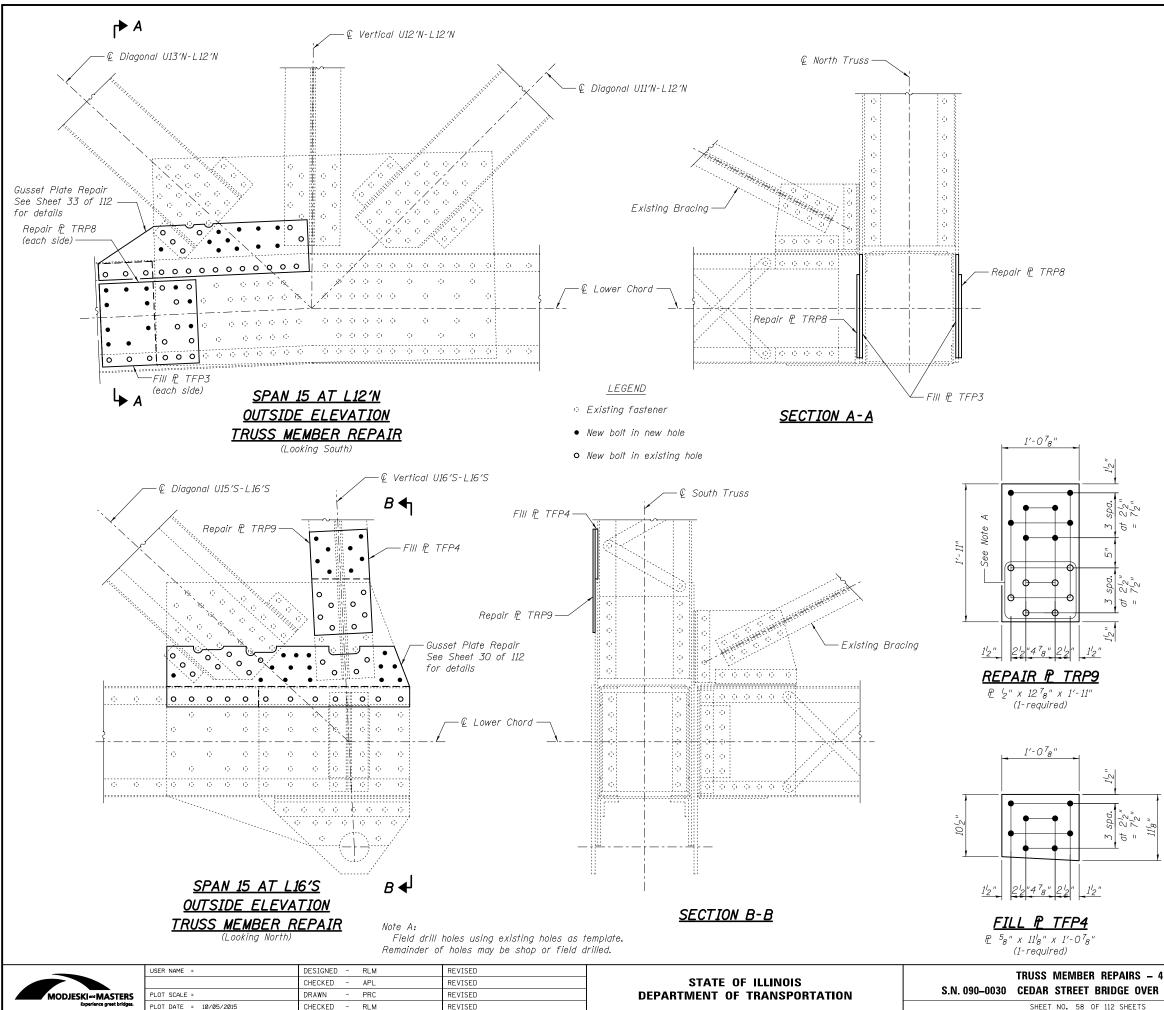
- New bolt in new hole
- New bolt in existing hole

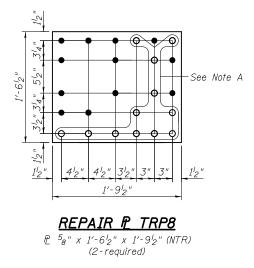
BILL OF MATERIAL

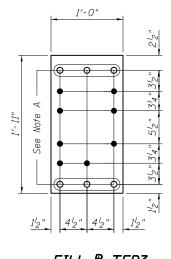
Item	Unit	Total
Structural Steel Repair	Pound	280

Note:

Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.





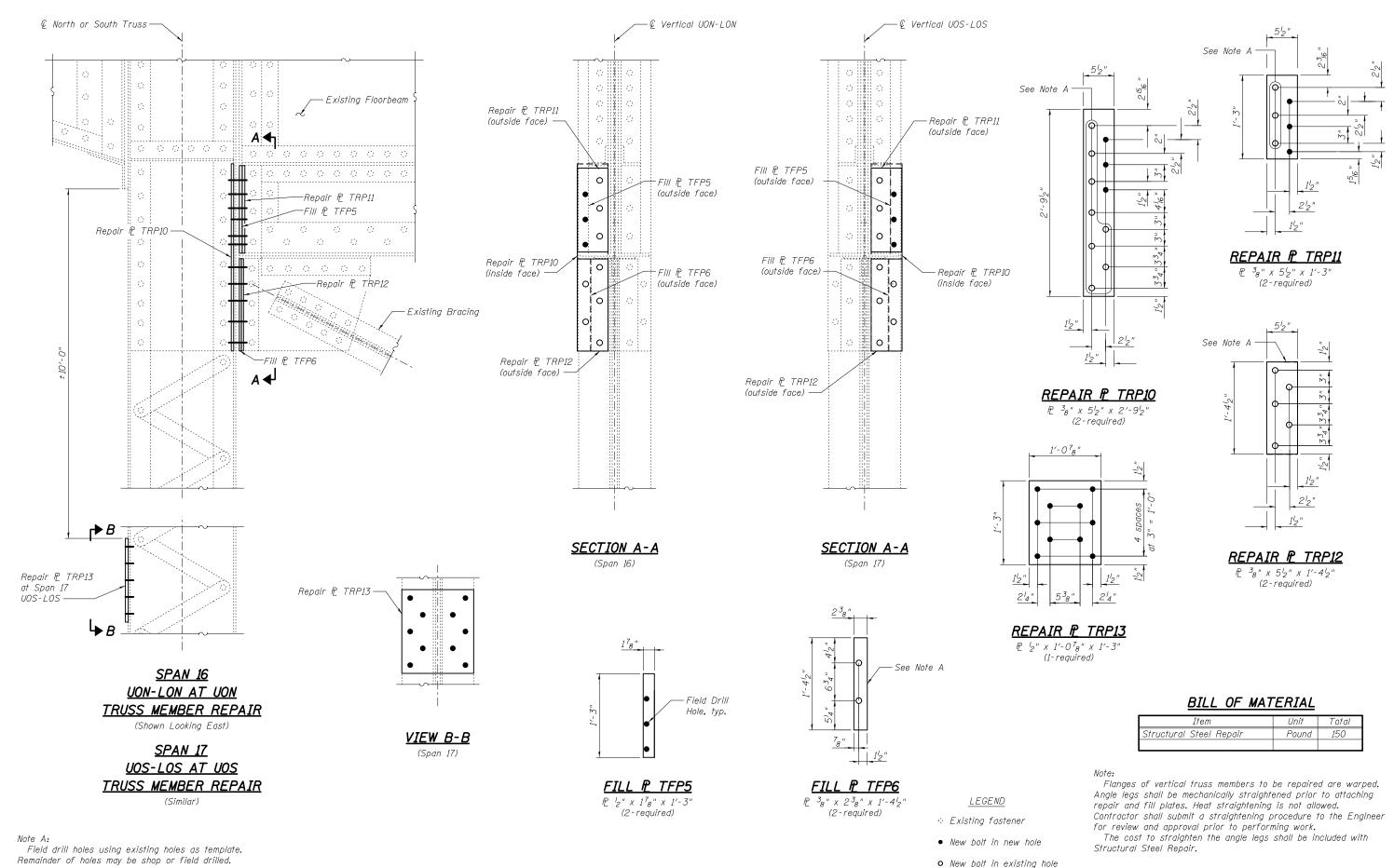


E 58" x 1'-0" x 1'-11" (2-required)

Item	Unit	Total
Structural Steel Repair	Pound	370

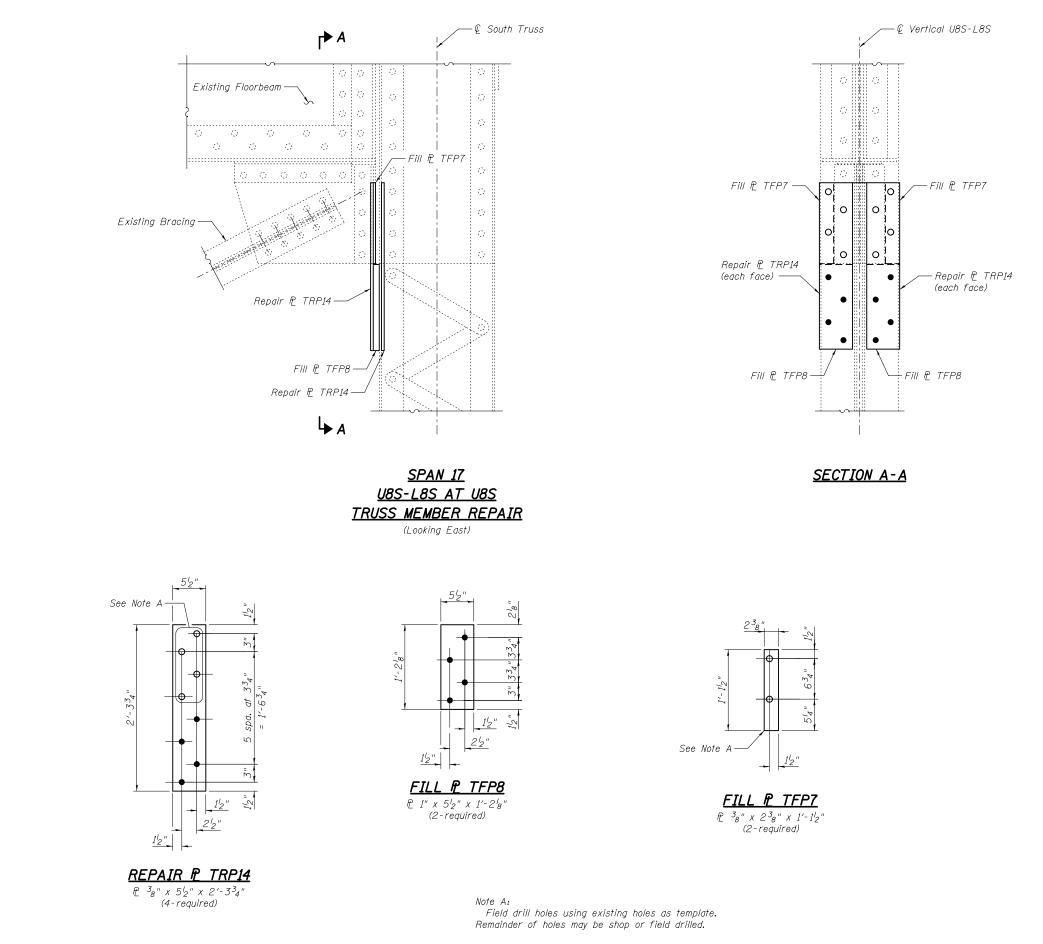
Note: Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.

REPAIRS – 4	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669 (103B)I-7		PEORIA/TAZEWELL	180	126
NDGE OVEN ILLINGIS NIVEN			CONTRACT	NO. 6	8A93
112 SHEETS	ILLINOIS FED. AID PROJECT				



	USER NAME =	DESIGNED - RLM	REVISED		TRUSS MEMBER REPAIRS – 5	F.A.P. SECTION	COUNTY TOTAL SHEET
		CHECKED - APL	REVISED	STATE OF ILLINOIS	S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER	669 (103B)I-7	PEORIA/TAZEWELL 180 127
MODJESKI	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	5.N. 050-0050 CEDAN STREET BRIDGE OVEN TELINOIS RIVER		CONTRACT NO. 68A93
Experience great bridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED		SHEET NO. 59 OF 112 SHEETS	ILLINOIS FED.	AID PROJECT

Item	Unit	Total
Structural Steel Repair	Pound	150





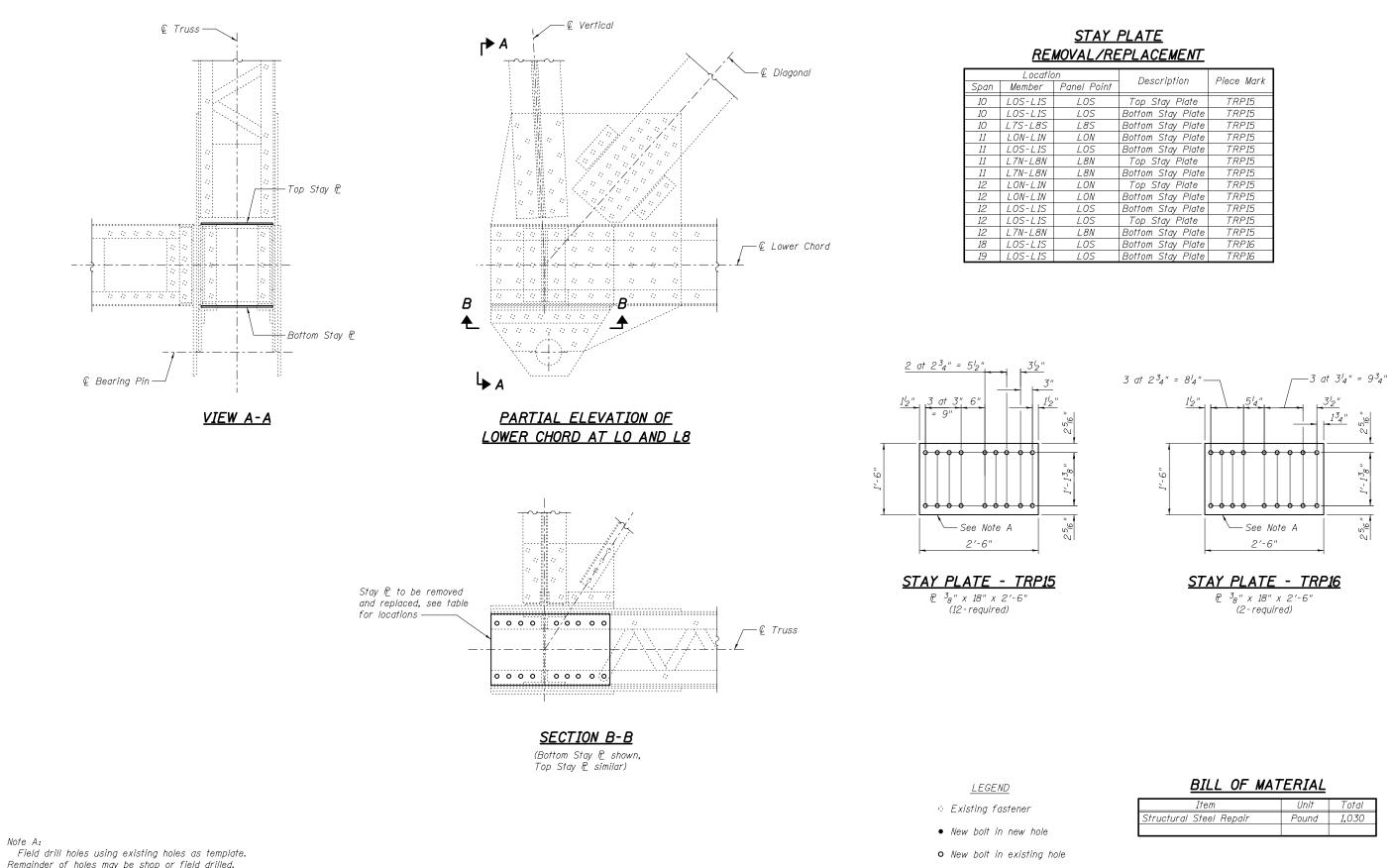
USER NAME = DESIGNED - RLM REVISED TRUSS MEMBER RI STATE OF ILLINOIS CHECKED - APL REVISED S.N. 090-0030 CEDAR STREET BR PLOT SCALE = DRAWN - PRC REVISED **DEPARTMENT OF TRANSPORTATION** PLOT DATE = 10/05/2015 CHECKED - RLM REVISED SHEET NO. 60 OF

LEGEND

- Existing fastener
- New bolt in new hole
- New bolt in existing hole

Item	Unit	Total
Structural Steel Repair	Pound	140

REPAIRS – 6	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL	180	128
			CONTRACT	' NO. 6	8A93
112 SHEETS	ILLINDIS FED. AID PROJECT				

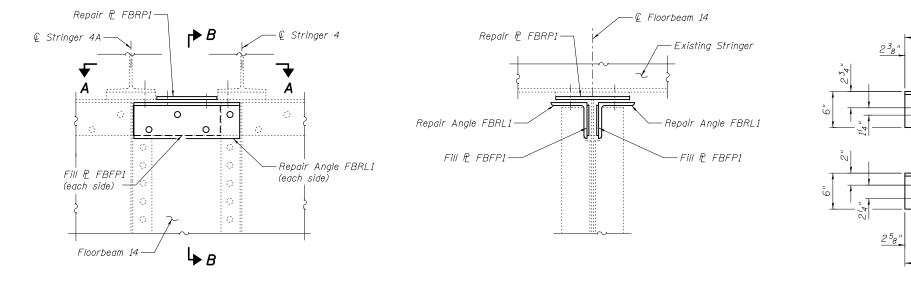


Note A:											
Field	drii	Ίh	oles	using	exi	sting	hole	es a	S	template.	
Remain	der	of	holes	s may	be	shop	or	field	1	drilled.	

	USER NAME =	DESIGNED -	APL	REVISED		TRUSS MEMBER REPAIRS – 7	F.A.P.	SECTION	COUNTY TOTAL SHEET
	CHECKED - RLM REVISED	STATE OF ILLINOIS	S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL 180 129			
MODJESKI and MASTERS Experience great bridges.	PLOT SCALE = PLOT DATE = 10/05/2015	DRAWN - CHECKED -	APL	REVISED	DEPARTMENT OF TRANSPORTATION	SHEET NO. 61 OF 112 SHEETS		ILLINOIS FED. A	CONTRACT NO. 68A93

n	Description	Piece Mark		
Panel Point	Description			
LOS	Top Stay Plate	TRP15		
LOS	Bottom Stay Plate	TRP15		
L8S	Bottom Stay Plate	TRP15		
LON	Bottom Stay Plate	TRP15		
LOS	Bottom Stay Plate	TRP15		
L8N	Top Stay Plate	TRP15		
L8N	Bottom Stay Plate	TRP15		
LON	Top Stay Plate	TRP15		
LON	Bottom Stay Plate	TRP15		
LOS	Bottom Stay Plate	TRP15		
LOS	Top Stay Plate	TRP15		
L8N	Bottom Stay Plate	TRP15		
LOS	Bottom Stay Plate	TRP16		
LOS	Bottom Stay Plate	TRP16		

Item	Unit	Total
Structural Steel Repair	Pound	1,030

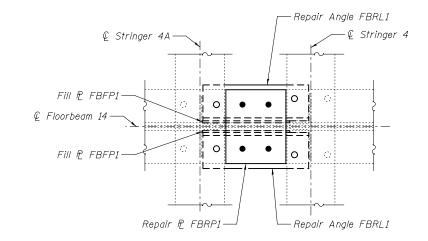


SECTION B-B

REPAIR ANGLE FBRL1

1'-5⁵8"

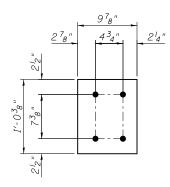
L6x6x¹2" x 1'-5⁵8" (2-required) (East side angle shown, West side angle opposite hand)

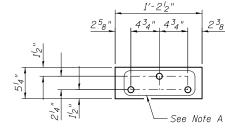


<u>SECTION A-A</u>

SPAN 13. FLOORBEAM 14

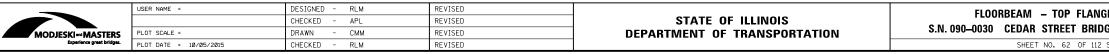
(Looking West)





<u>REPAIR 🖻 FBRP1</u> ₽ ³8" x 9⁷8" x 1'-0³8" (1-required)

<u>FILL 🖻 FBFP1</u> R 516" x 514" x 1'-212' (2-required)

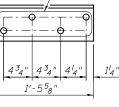




1'-5⁵8"

4¹2",4³4",4¹2"

See Note A



_2³8"

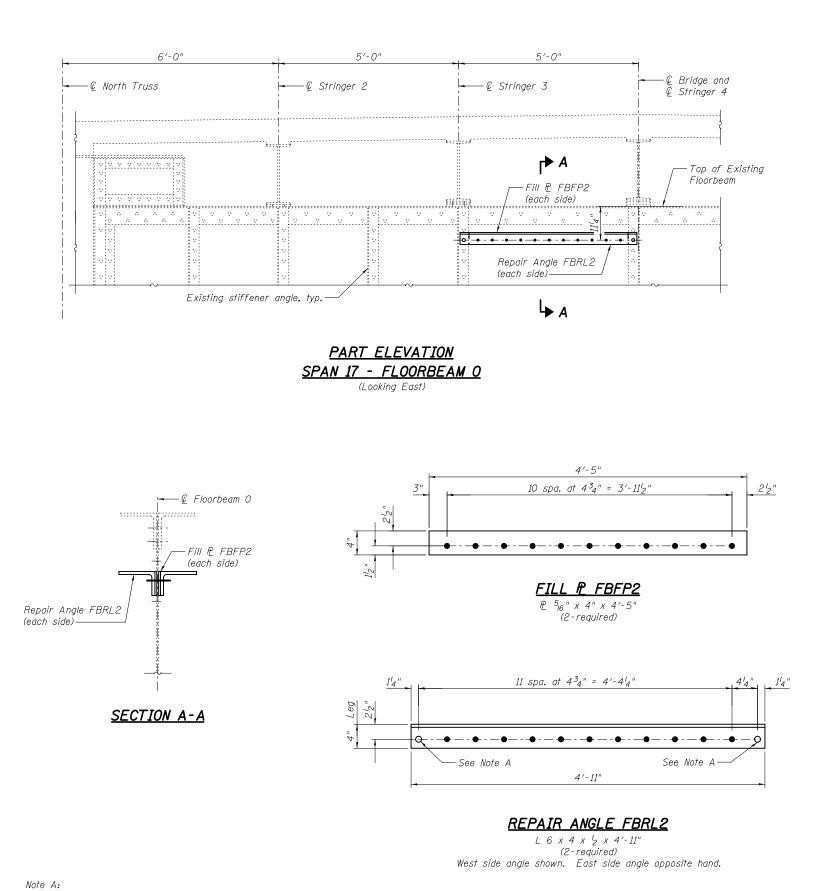
LEGEND

- Existing fastener
- New bolt in new hole
- New bolt in existing hole

Note A: Field drill holes using existing holes as template. Remainder of holes may be shop or field drilled.

Item	Unit	Total
Structural Steel Repair	Pound	100

ANGE REPAIRS – 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL	180	130
			CONTRACT	NO. 6	8A93
112 SHEETS		ILLINOIS FED. A	ID PROJECT		



Field drill holes using existing holes as template. Remainder of holes may be shop or field drilled.

	USER NAME =	DESIGNED - RLM	REVISED		FLOORBEAM – TOP FLANGE REPAIRS – 2	F.A.P. RTE,	SECTION	COUNTY TOTAL SHEET SHEETS NO.
		CHECKED - APL	REVISED	STATE OF ILLINOIS	S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL 180 131
MODJESKI and MASTERS Experience great bridges.	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 68A93
	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED		SHEET NO. 63 OF 112 SHEETS		ILLINOIS FE	ED, AID PROJECT

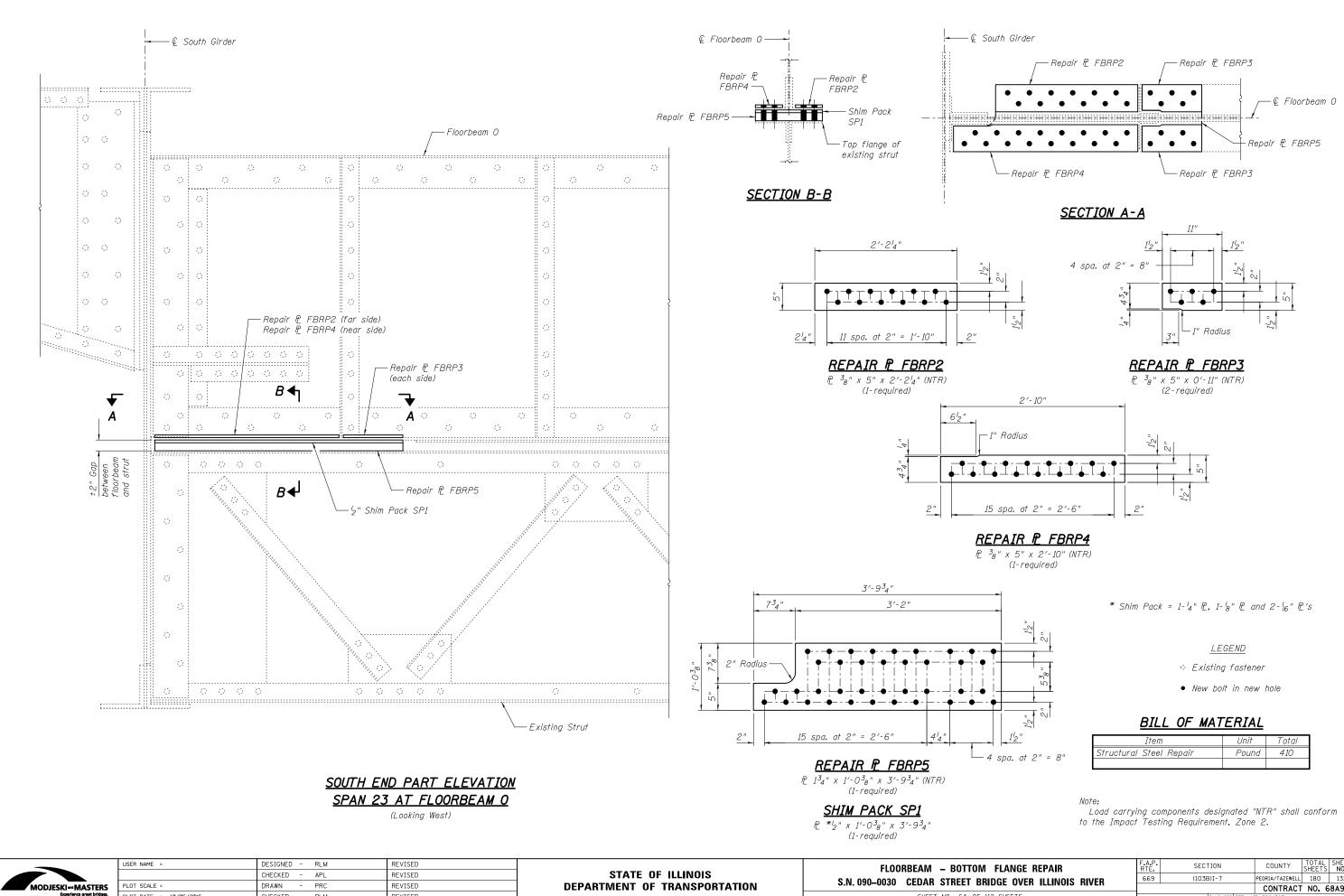
LEGEND

Existing fastener

New bolt in new hole

• New bolt in existing hole

Item	Unit	Total
Structural Steel Repair	Pound	210

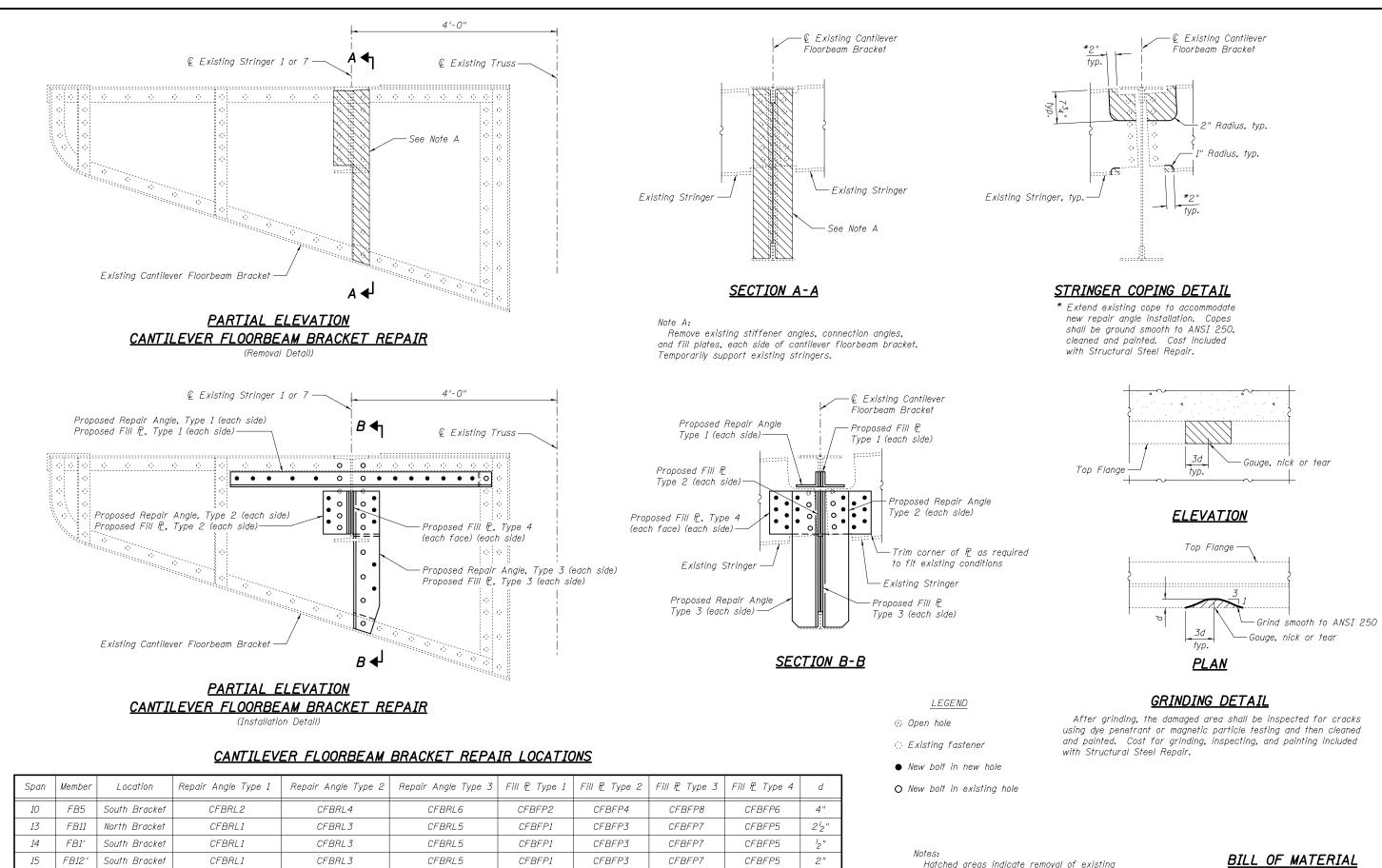


PLOT SCALE = PLOT DATE = 10/05/2015

CHECKED - RLM

REVISED

BEAM – BOTTOM FLANGE REPAIR		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
EDAR STREET BRIDGE OVER ILLINOIS RIVER		(103B)I-7	PEORIA/TAZEWELL	180	132
EDAN STREET BRIDGE OVEN RELINOIS RIVER			CONTRACT	NO. 6	8A93
SHEET NO. 64 OF 112 SHEETS		ILLINOIS FED. A	D PROJECT		



structural steel. Cost includ Steel Repair. For repair angle and fill see Sheet 66 of 112.



FB7

South Bracket

CFBRL2

CFBRL4

16

	USER NAME =	DESIGNED - RLM	REVISED		CANTILEVER FLOORBEAM BRACKET -
		CHECKED - APL	REVISED	STATE OF ILLINOIS	
ASTERS	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 090–0030 CEDAR STREET BRID
ce great bridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED		SHEET NO. 65 OF 112

CFBFP2

CFBFP4

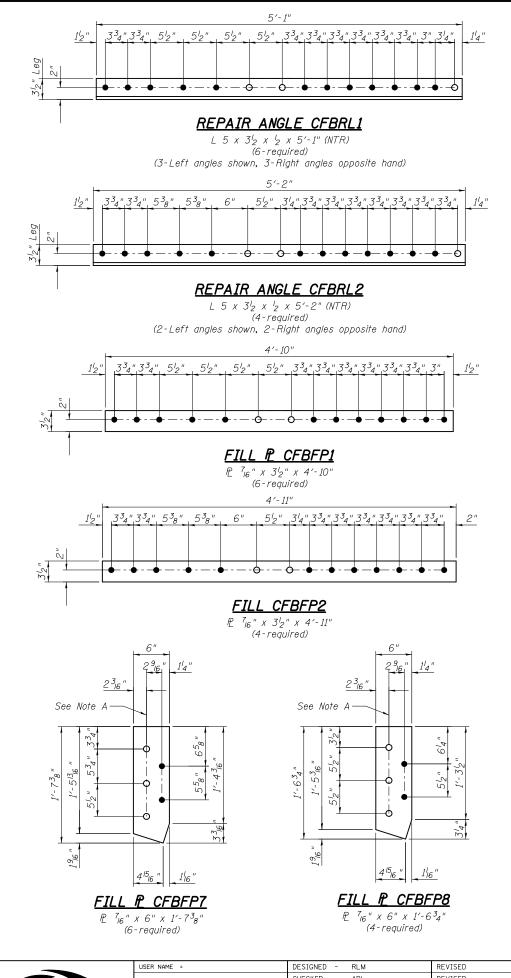
CFBFP8

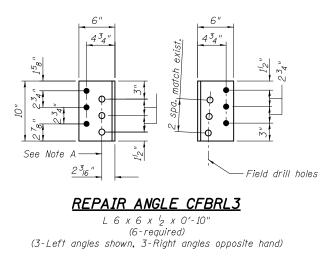
CFBFP6

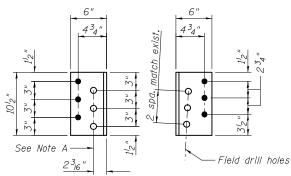
34"

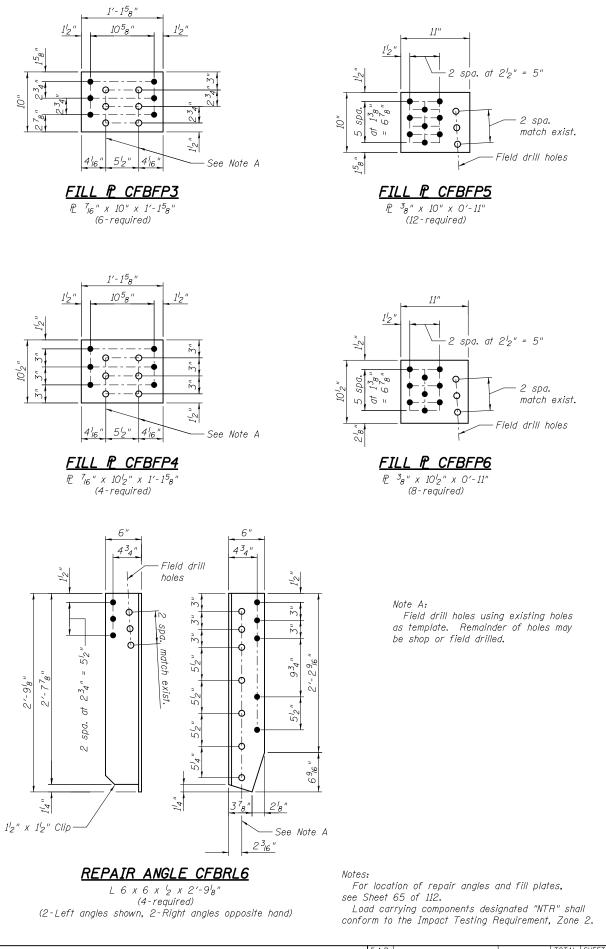
CFBRL6

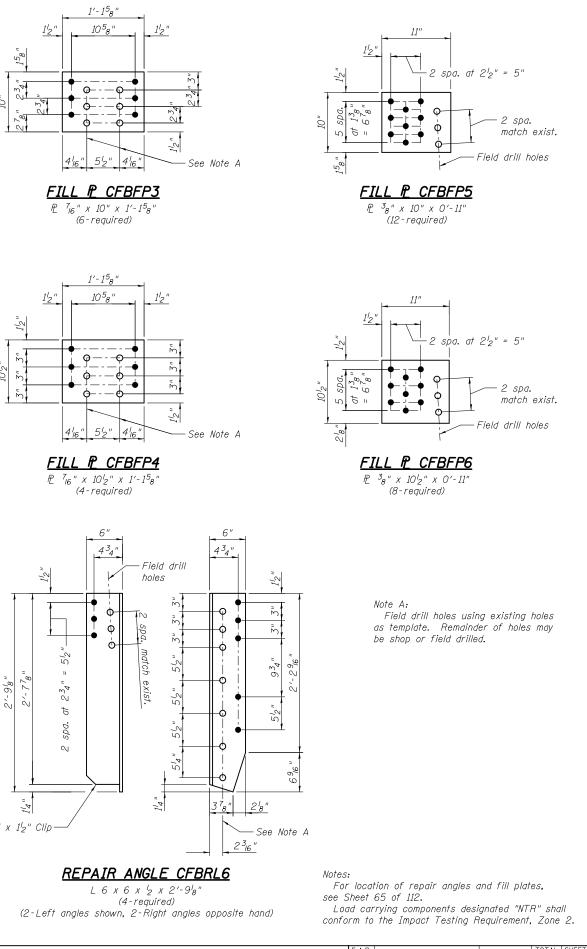
as indicate removal of existing		BILL OF MAT	<u>ERIAL</u>		
el. Cost included with Structural		Item	Unit	Total	
angle and fill plate details,	Structura	l Steel Repair	Pound .	2,430	
of 112.					┘│
AM BRACKET – TOP FLANGE REPAIRS – 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
AR STREET BRIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL	180	133
			CONTRACT	NO.6	8A93
EET NO. 65 OF 112 SHEETS		ILLINOIS FED. A	ID PROJECT		







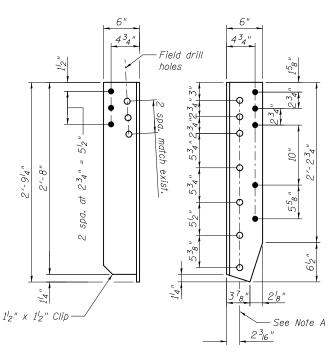




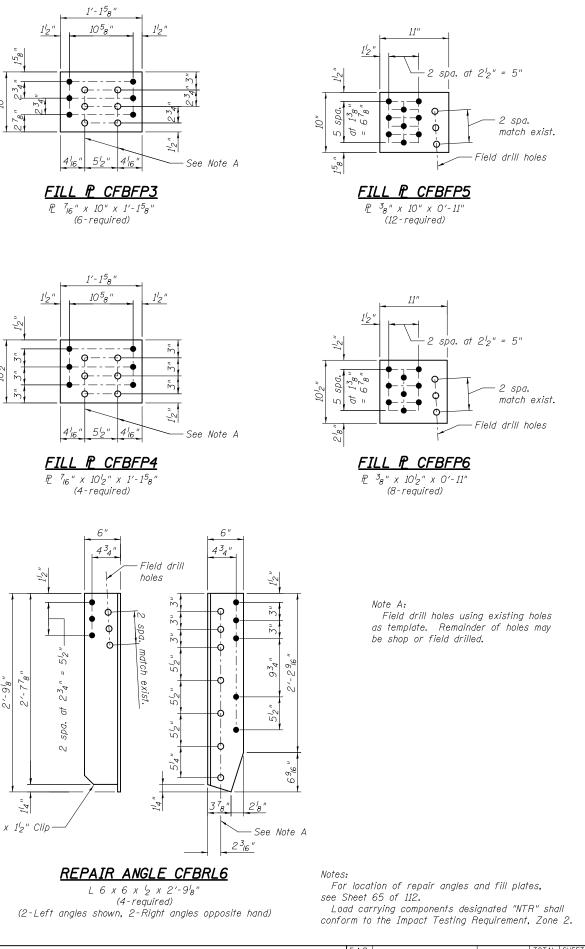
REPAIR ANGLE CFBRL4 L6x6x1/2x0'-101/2'

(4-required)

(2-Left angles shown, 2-Right angles opposite hand)



REPAIR ANGLE CFBRL5 L 6 x 6 x ¹₂ x 2'-9¹₄" (6-required)

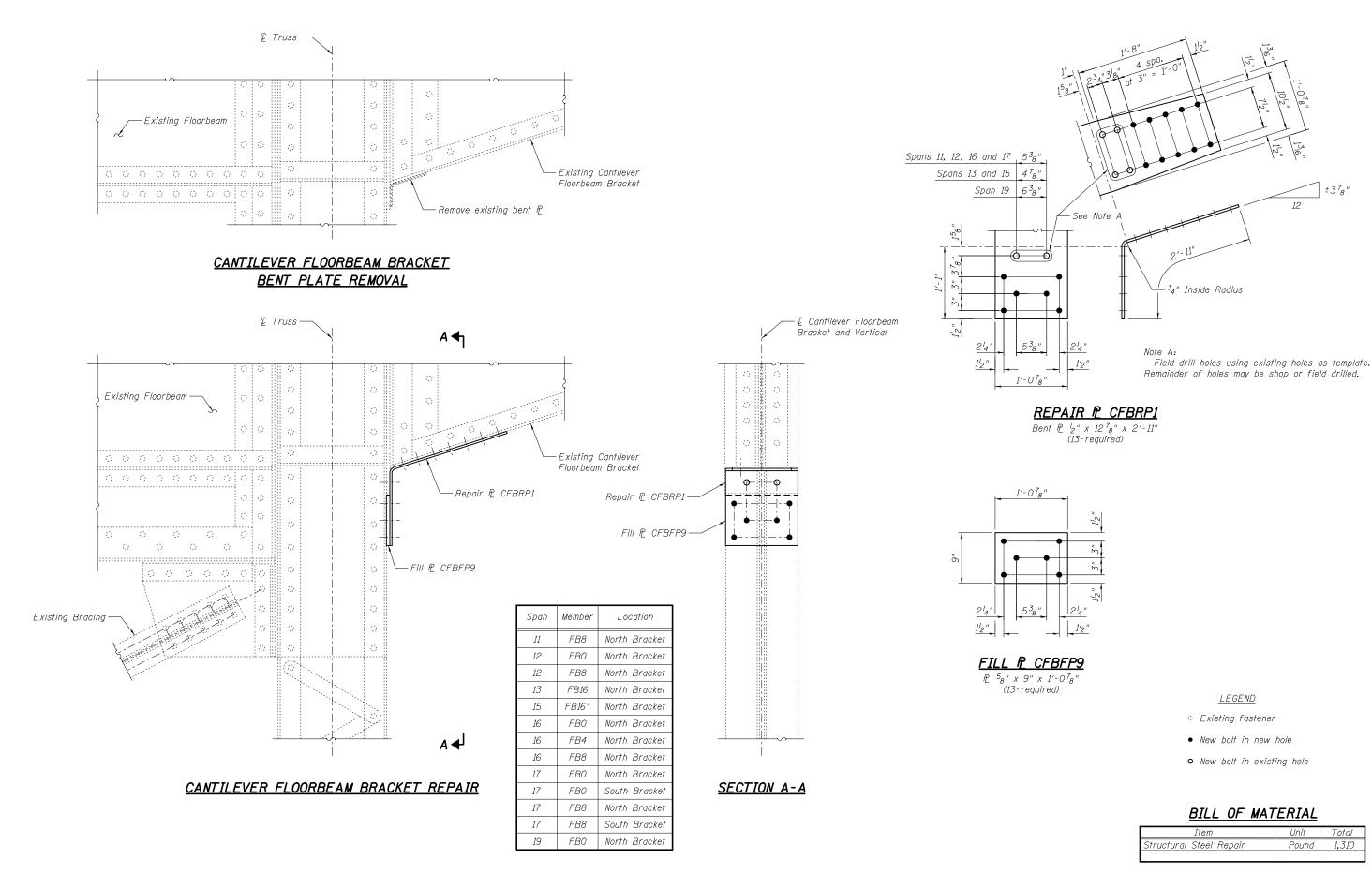


(3-Left angles shown, 3-Right angles opposite hand)

-	USER NAME =	DESIGNED - RLM	REVISED	
		CHECKED - APL	REVISED	STATE OF ILLINOIS
MODJESKI	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION
Experience great bridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED	

CANTILEVER FLOORBEAM BRACKET S.N. 090-0030 CEDAR STREET BF SHEET NO. 66 OF

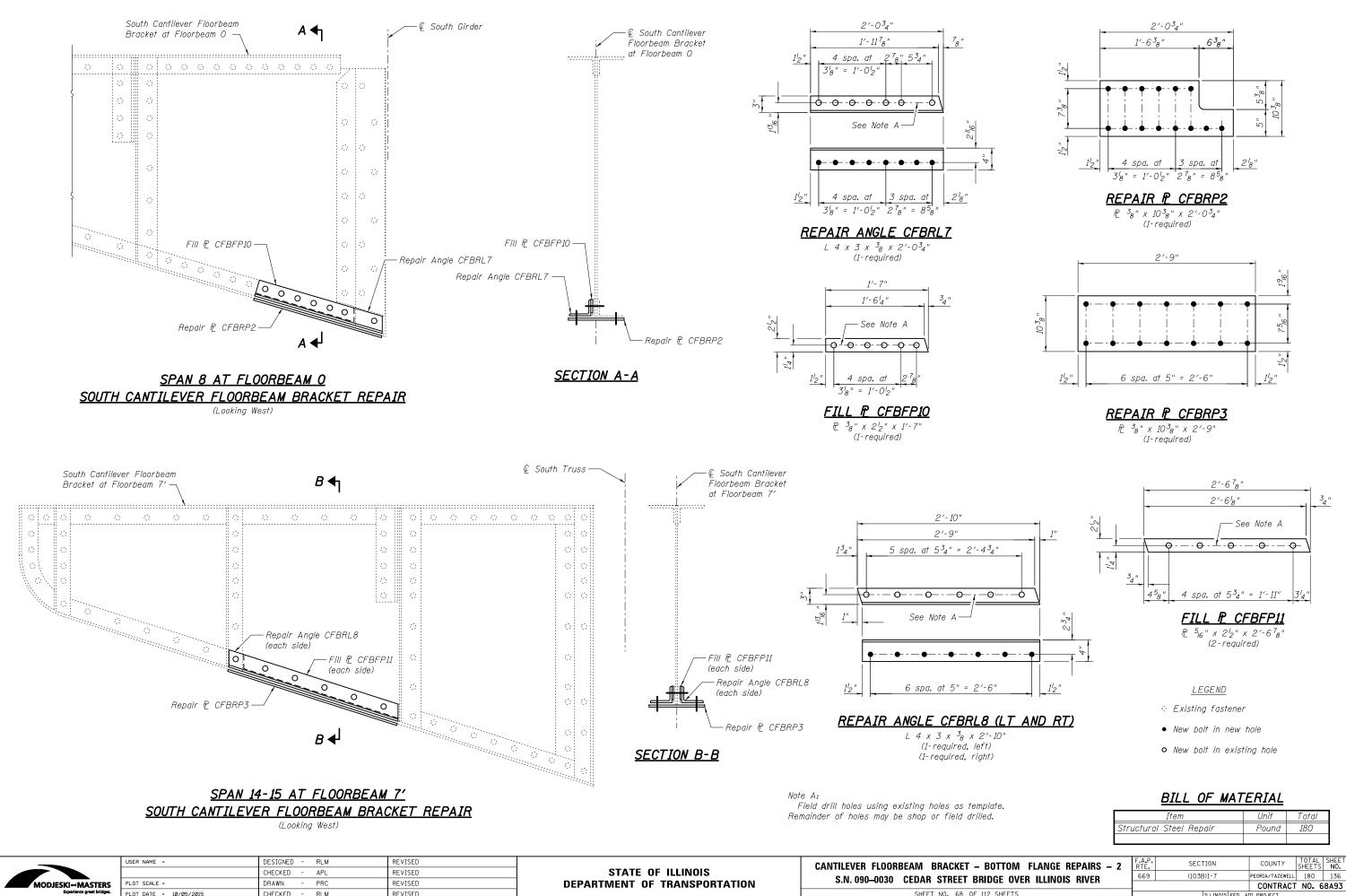
– TOP FLANGE REPAIRS – 2	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL	180	134
MDGE OVEN IEENOIS MIVEN			CONTRACT	NO. 6	8A93
112 SHEETS	ILLINOIS FED. AID PROJECT				



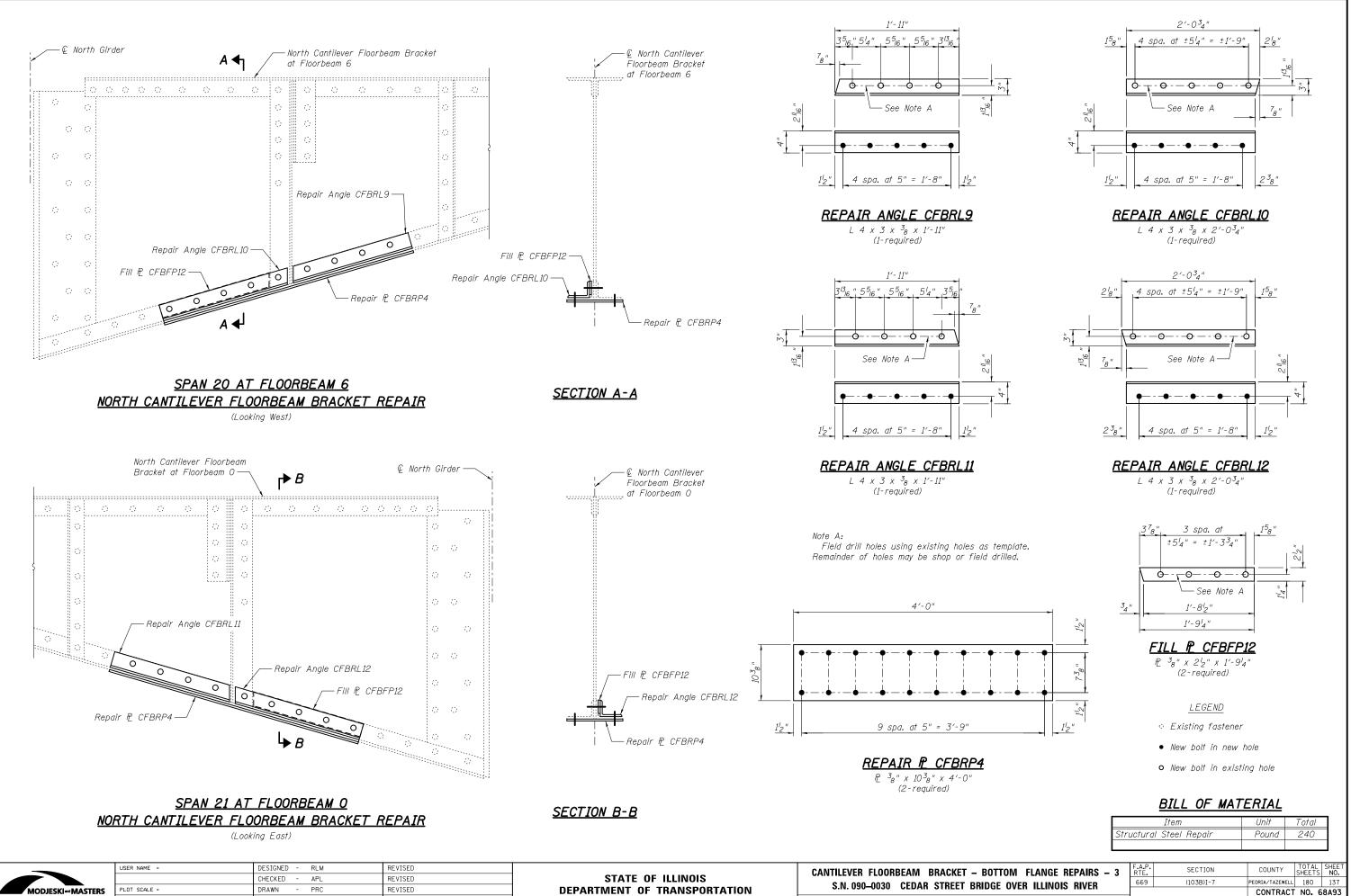
	USER NAME =	DESIGNED - RLM	REVISED		CANTILEVER FLOORBEAM BRACKET -
		CHECKED - YSS	REVISED	STATE OF ILLINOIS	
MODJESKI	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 090–0030 CEDAR STREET BRI
Experience great bridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED		SHEET NO. 67 OF 11

Item	Unit	Total
Structural Steel Repair	Pound	1,310

BOTTOM FLANGE REPAIRS – 1	F.A.P. RTE.	SECTION		COUNTY		TOTAL	SHEET NO.		
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7			PEORIA/T		180	135	
112 SHEETS		CONTRACT NO. 68A93							



CONTRACT NO. 68A93 SHEET NO. 68 OF 112 SHEETS

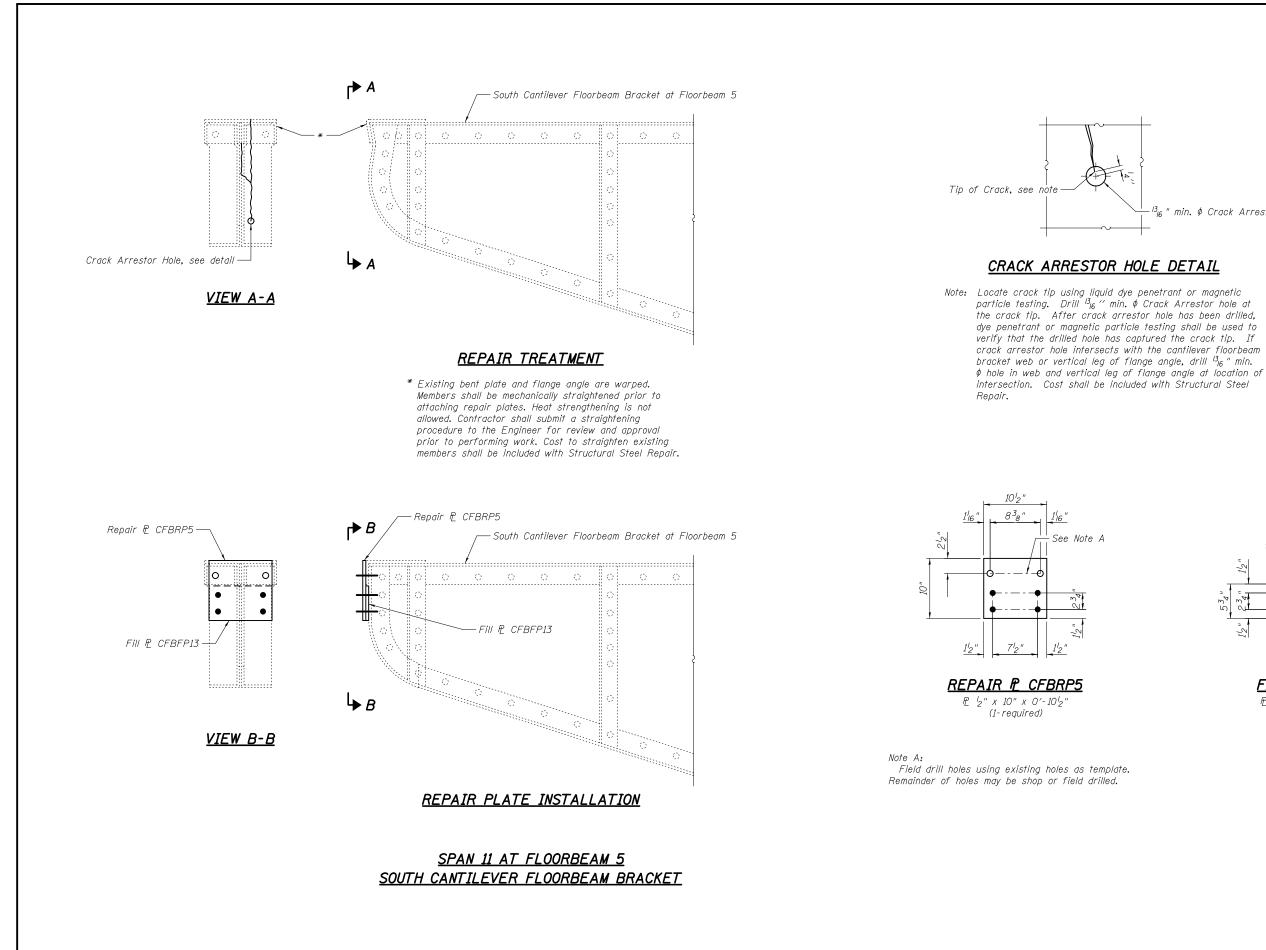


PLOT DATE = 10/05/2015

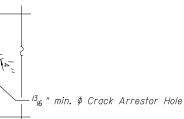
CHECKED - RLM

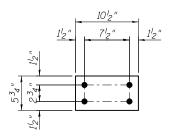
REVISED

	_					
BOTTOM FLANGE REPAIRS – 3		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL	180	137	
NIDGE OVEN ILLINGIS NIVEN			CONTRACT	NO. 6	8A93	
112 SHEETS	ILLINOIS FED. AID PROJECT					



MODJESKI and MASTERS Experience great bridges.







LEGEND

• Existing fastener

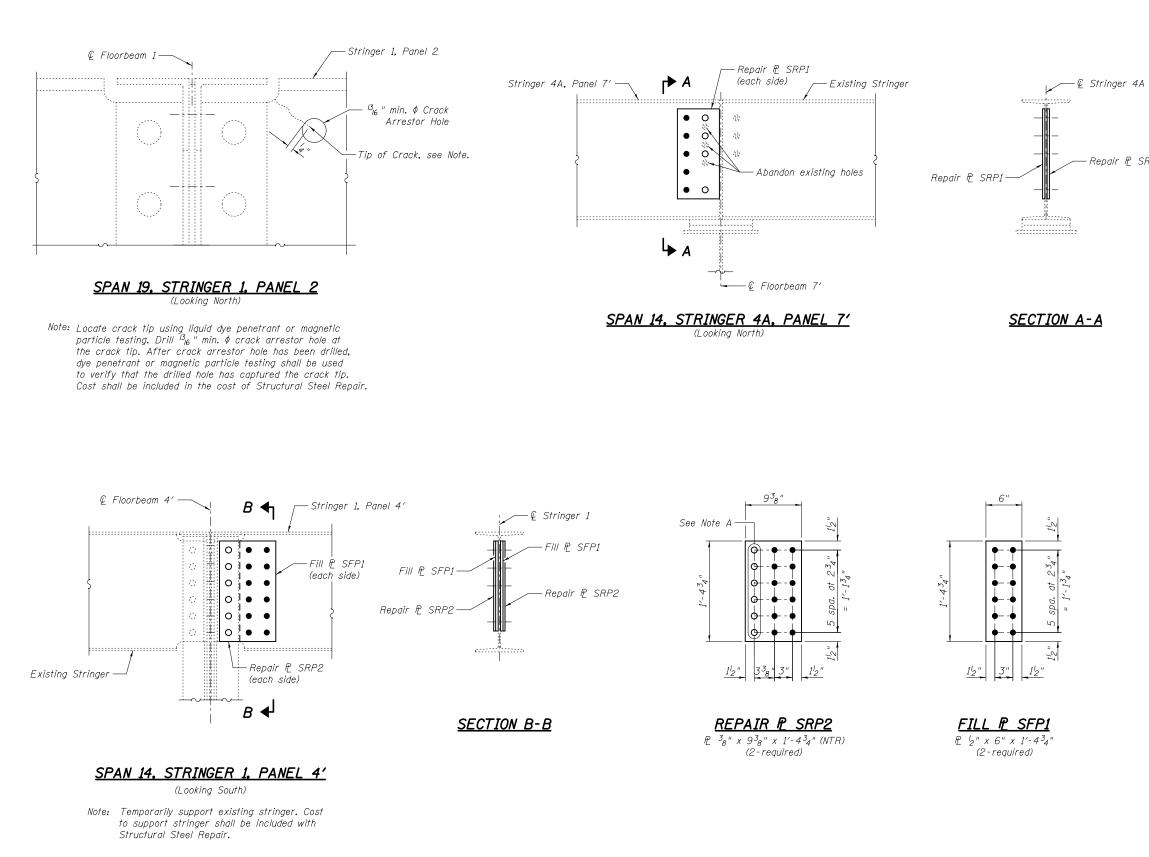
• New bolt in new hole

• New bolt in existing hole

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	30

BOTTOM FLANGE REPAIRS – 4	A.P.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	69	(103B)I-7	PEORIA/TAZEWELL	180	138	
				CONTRACT	NO. 6	8A93
112 SHEETS		ILLING	IS FED. A	ID PROJECT		

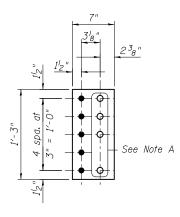


Note A:

Field drill holes using existing holes as template. Remainder of holes may be shop or field drilled.

USER NAME =	DESIGNED - RLM	REVISED		STRINGER REPAIR DETAILS – 1	F.A.P. RTE,	SECTION	COUNTY TOTAL SHEET SHEETS NO.
	CHECKED - APL	REVISED			669	(103B)I-7	PEORIA/TAZEWELL 180 139
PLOT SCALE = PLOT DATE = 10/05/2015	DRAWN - PRC CHECKED - RLM	REVISED	DEPARIMENT OF TRANSPORTATION	SHEET NO. 71 OF 112 SHEETS			CONTRACT NO. 68A93
	USER NAME = PLOT SCALE = PLOT DATE = 10/05/2015	CHECKED - APL PLOT SCALE = DRAWN - PRC	USER NAME = DESIGNED - RLM REVISED CHECKED - APL REVISED	USER NAME = DESIGNED - RLM REVISED CHECKED - APL REVISED PLOT SCALE = DRAWN - PRC REVISED DRAWN - PRC REVISED DRAWN - PRC REVISED DRAWN - PRC REVISED	USER NAME = DESIGNED - RLM REVISED CHECKED - APL REVISED PLOT SCALE = DRAWN - PRC REVISED	USER NAME = DESIGNED - RLM REVISED REV	USER NAME = DESIGNED - RLM REVISED CHECKED - APL REVISED PLOT SCALE = DRAWN - PRC REVISED REVISED DRAWN - PRC REVISED REVISE

- Repair 🖻 SRP1





(2-required)



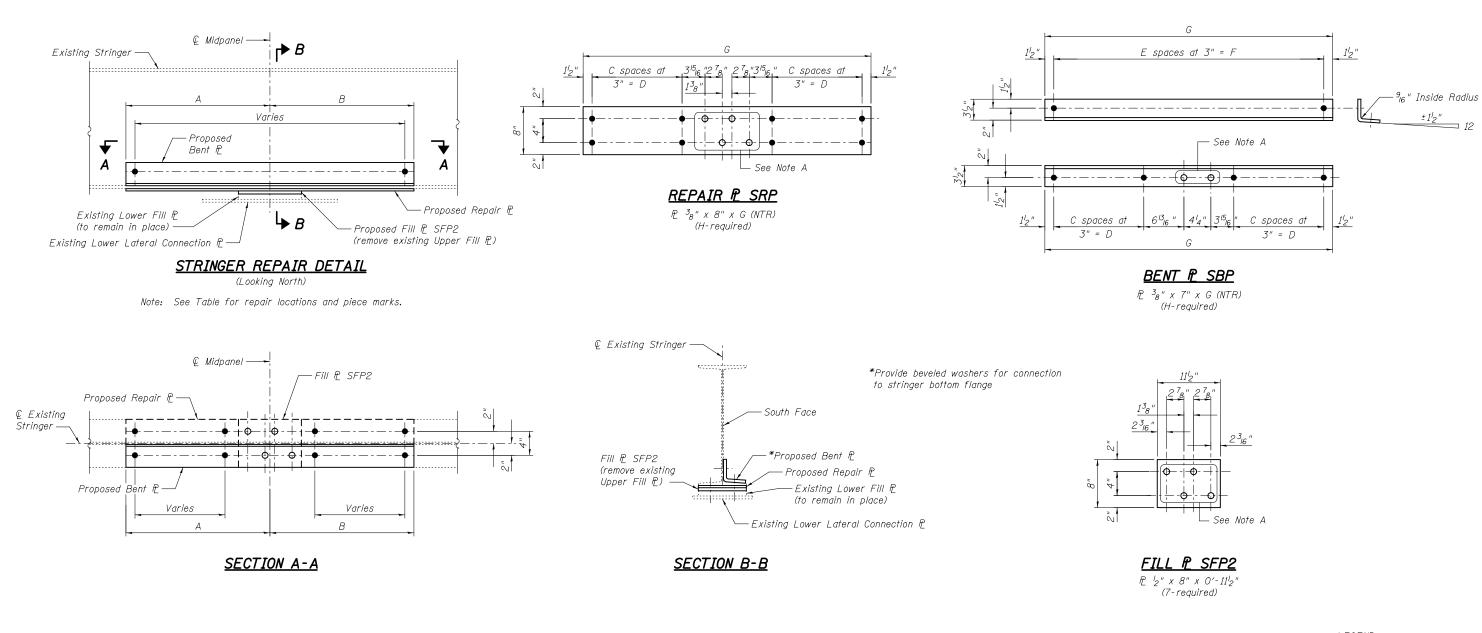
- © Open hole
- Existing fastener
- New bolt in new hole
- New bolt in existing hole

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	110

Note:

Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.



STRINGER REPAIR LOCATIONS

Span	Stringer	Panel	A	В	Repair 🖻	Bent P
13	4	11, 13 and 14	1'-6"	1'-6"	SRP3	SBP1
15	4	10′	1'-6"	1'-6"	SRP3	SBP1
15	4	11′ and 13′	2'-0"	2'-0"	SRP4	SBP2
15	4	12'	2'-6"	2'-6"	SRP5	SBP3

REPAIR AND BENT PLATE DIMENSIONS

Piece Mark	С	D	Ε	F	G	Н
SRP3	3	9"			3'-0"	4
SRP4	5	1'-3"			4'-0"	2
SRP5	7	1'-9"			5′-0″	1
SBP1	3	9"	11	2'-9"	3'-0"	4
SBP2	5	1′-3″	15	3′-9″	4'-0"	2
SBP3	7	1'-9"	19	4′-9″	5′-0″	1

Note A:

Field drill holes using existing holes as template. Remainder of holes may be shop or field drilled.

	USER NAME =	DESIGNED - RLM	REVISED		STRINGER REPAIR DETAILS – 2	F.A.P. RTE,	SECTION	COUNTY TOTAL SHEET SHEETS NO.
		CHECKED - APL	REVISED	STATE OF ILLINOIS	S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL 180 140
MODJESKI and MASTERS Experience great bridges.	PLOT SCALE = PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED	DEPARTMENT OF TRANSPORTATION	SHEET NO. 72 OF 112 SHEETS		ILLINOIS F	CONTRACT NO. 68A93

LEGEND

- New bolt in new hole
- New bolt in existing hole

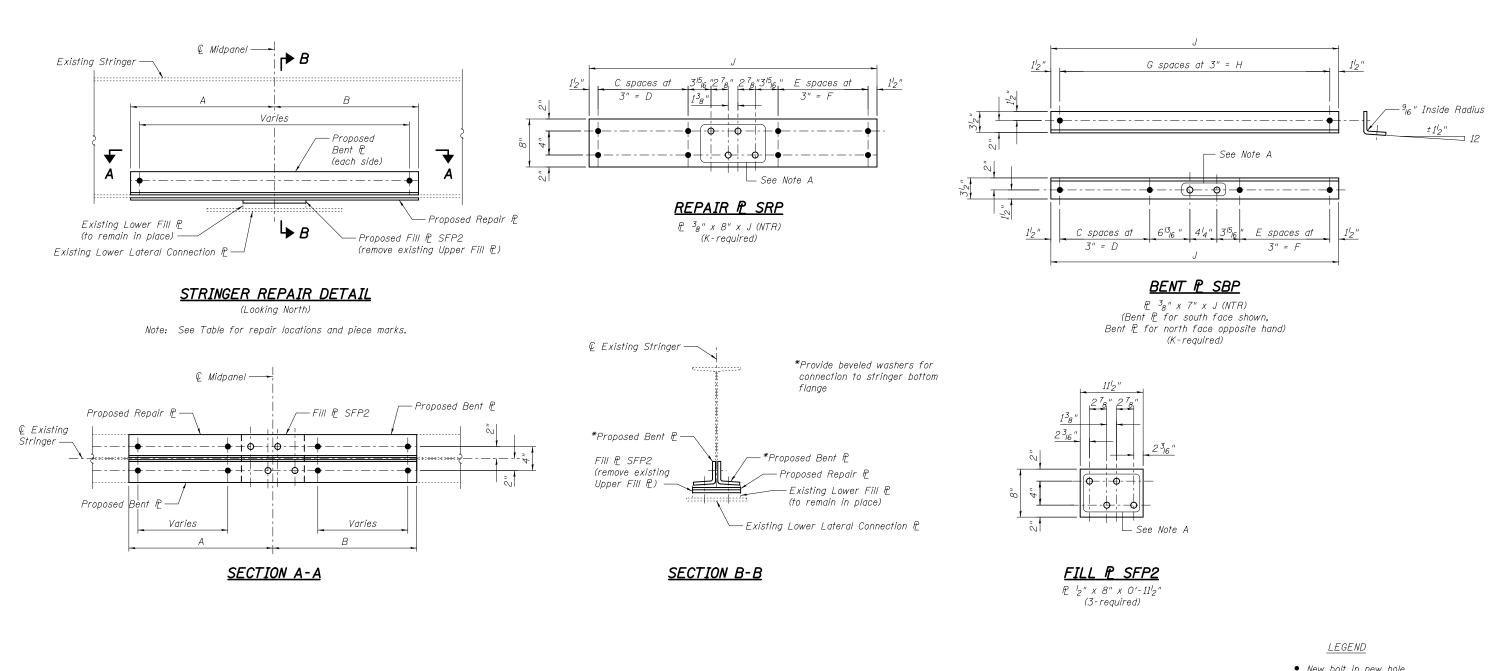
BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	810

Notes:

Lower lateral bracing shall be supported during stringer repair. Contractor shall submit support procedure to Engineer for review and approval prior to performing work. Cost to support lower lateral bracing shall be included with Structural Steel Repair.

Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.



STRINGER REPAIR LOCATIONS

Span	Stringer	Panel	А	В	Repair P	Bent P
14	4	4	9"	2'-6"	SRP6	SBP4
15	4	14 ′	3′-9″	1′-3″	SRP7	SBP5
15	4	15′	2'-0"	3'-0"	SRP8	SBP6

REPAIR AND BENT PLATE DIMENSIONS

Piece Mark	С	D	Ε	F	G	Н	J	K
SRP6			7	1'-9"			3′-3″	1
SRP7	12	3'-0"	2	6"			5′-0″	1
SRP8	5	1'-3"	9	2'-3"			5′-0″	1
SBP4			7	1'-9"	12	3'-0"	3′-3″	2
SBP5	12	3'-0"	2	6"	19	4'-9"	5'-0"	2
SBP6	5	1'-3"	9	2'-3"	19	4'-9"	5′-0″	2

Note A:

Field drill holes using existing holes as template. Remainder of holes may be shop or field drilled.

	USER NAME =	DESIGNED - RLM	REVISED		STRINGER REPAIR DETAILS – 3	F.A.P. RTE,	SECTION	COUNTY T	OTAL SHEET HEETS NO.
		CHECKED - APL	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL	180 141
MODJESKI and MASTERS Experience great bridges.	PLOT SCALE = PLOT DATE = 10/05/2015	DRAWN - PRC CHECKED - RLM	REVISED		SHEET NO. 73 OF 112 SHEETS		TILL INDIS FED.		10. 68A93

New bolt in new hole

• New bolt in existing hole

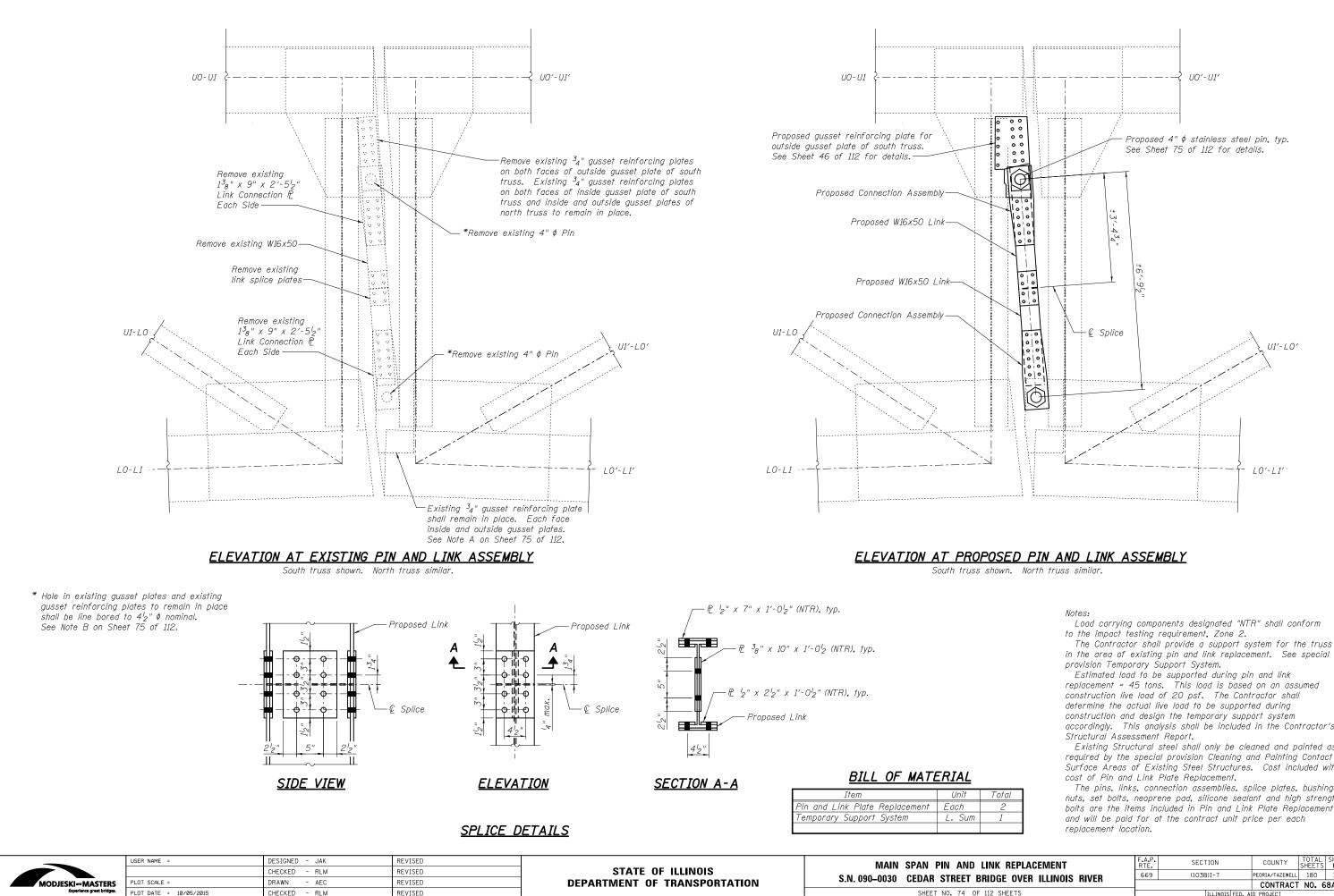
BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	540

Notes:

Lower lateral bracing shall be supported during stringer repair. Contractor shall submit support procedure to Engineer for review and approval prior to performing work. Cost to support lower lateral bracing shall be included with Structural Steel Repair.

Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.



Load carrying components designated "NTR" shall conform

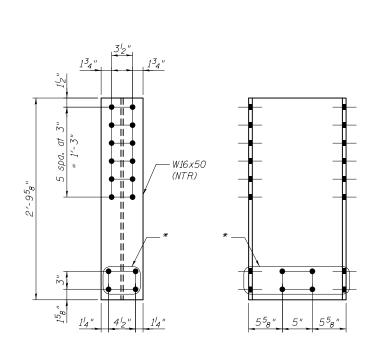
in the area of existing pin and link replacement. See special

replacement = 45 tons. This load is based on an assumed accordingly. This analysis shall be included in the Contractor's

Existing Structural steel shall only be cleaned and painted as required by the special provision Cleaning and Painting Contact Surface Areas of Existing Steel Structures. Cost included with

The pins, links, connection assemblies, splice plates, bushings nuts, set bolts, neoprene pad, silicone sealant and high strength bolts are the items included in Pin and Link Plate Replacement

LINK REPLACEMENT	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER		(103B)I-7	PEORIA/TAZEWELL	180	142
NIDGE OVEN IEENVOIS NIVEN			CONTRACT	NO. 6	8A93
112 SHEETS		ILLINOIS FED. A	ID PROJECT		



* Shop drill holes in two of the required links. Holes to be field drilled in the two remaining links. Install one of each at each pin and link assembly.

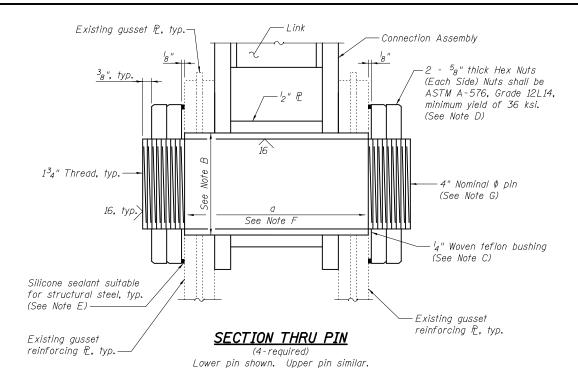
> LINK (4-required)

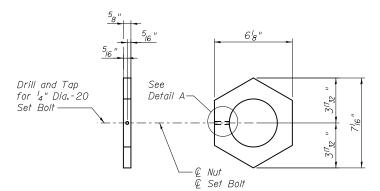
31/2"

134'

134'

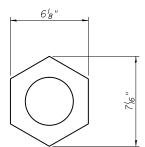
1³8" P., typ.





EXTERIOR NUT DETAIL (8-required)

> '₄" Dia. he (tighten firi



INTERIOR NUT DETAIL (8-required)

2 2 1³8" x 9" x 2'-5¹2" (NTR) spa. at 3" = 1'-3" $4_2^{\prime} \phi$ Nominal hole, (See Note B) 2'-52" P 12" x 6" x 1'-414", typ. ·'2" P 112 " 4′2″ ′2″_typ. 1'-44" 9" CONNECTION P SIDE VIEW (2-required per assembly)

CONNECTION ASSEMBLY

(4-reauired)



	USER NAME =	DESIGNED - JAK	REVISED		MAIN SPAN PIN AND LINK REPLACEMENT DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
		CHECKED - RLM	REVISED	STATE OF ILLINOIS	S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL	180	143
and MASTERS sperience great bridges.	PLOT SCALE = PLOT DATE = 10/05/2015	DRAWN - AEC CHECKED - RLM	REVISED REVISED	DEPARTMENT OF TRANSPORTATION	SHEET NO. 75 OF 112 SHEETS		ILLINOIS FED.	AID PROJECT	NO. 6	3A93

Note A:

Existing welds shall be inspected for cracks using liquid dye penetrant or magnetic particle testing. Any cracks that are found shall be identified and reported to the Bureau of Bridges and Structures for further disposition. Clean and paint before installing new link plates.

Note B:

Bore diameter for bushing in link plate, existing gusset plates and existing gusset reinforcing plates shall correspond to bushing manufacturer's allowable tolerances for proper functioning. Hole diameter may be adjusted to allow use of stock bushings.

Note C:

Actual bushing thickness per manufacturer's specifications, I_4 " is approximate. Bushings shall be a self lubricating filament with epoxy matrix backed Duralon Bearing, metal backed Fiber Glide Bearing or equivalent. No primer or grease shall be allowed on bushings. Bushings shall be suitable for dynamic loads of 20.000 psi.

Note D:

Tighten inside nuts to bring all bushings into firm contact, then back off ${}^{I}_{4}$ turn and tighten outer nuts and set bolts.

Note E:

Place sealant around nuts after installation. Sealant shall be suitable for prolonged exterior exposure without losing flexibility or adhesion to painted steel surfaces. Proposed products shall be subject to Department's acceptance based on documented testing or other evidence.

Note F:

Body of Pin dimension "a" shall be based on measured thickness of captured plates (including paint), plus ¹₂".

Note G:

Nominal Pin diameter (diameter tolerances subject to Specifications of Teflon Bushing Manufacturer and shall be approved by the Engineer). Pin shall be ASTM A276, UNS 21800 (Nitronic 60 or equal) (No step at threads) 12 threads per Inch.

|--|

x ^I4" thick neoprene . Durometer)

DETAIL A

Set bolts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.

2015 NBIS INSPECTION DEFICIENCY ITEM NO.	LOCATION	SPAN	UNIT	ОТҮ.	DESCRIPTION
344	PIER 6, BEAM 1 AT BOTTOM OF FLANGE TO BEARING	6	EACH	2	Loose Bolts
56	S. END OF FLOORBEAM 2 ON OUTSIDE OF S. GIRDER	8	EACH	1	Rivet Head Popped Off
345	STRINGER 7, NEAR FLOOR BEAM O	8	EACH	3	Misdrilled Holes
424	S GIRDER, 1' E OF FLOOR BEAM 2	9	EACH	1	Misdrilled Hole
425	STRINGER 5, 8' W OF FLOOR BEAM 4	9	EACH	1	Missing Fastener
390	FLOORBEAM 5 AT S. CANTILEVER ON S. END	11	EACH	1	Sheared Rivet
298	FLOOR BEAM 4 AT STRINGER 6, DIAPHRAGM CONNECTION TO STRINGER 6	12	EACH	3	Missing Bolts
436	L7S-U7S AT L7S	13	EACH	4	Misdrilled Holes
435	2' N. OF S. TRUSS ON FLOOR BEAM 7	13-14	EACH	5	Missing Rivets and Misdrilled Holes
308	STRINGER 3 AT FLOOR BEAM 6, PAN. 6	14	EACH	2	Missing Bolts
309	STRINGER 4 AT FLOOR BEAM 6, PAN. 6	14	EACH	1	Missing Nut
311	STRINGER 4 AT FLOOR BEAM 5, PAN. 5	14	EACH	2	Missing Bolts
311	STRINGER 5 AT FLOOR BEAM 5, PAN. 5	14	EACH	2	Missing Bolts
310	U4N-U5N AT U5N IN SPLICE PLATE	14	EACH	6	Missing Rivets
440	U4S-U5S AT U5S IN SPLICE PLATE	14	EACH	1	Missing Rivet
398	GUSSET PLATE L6N, INNER PLATE	14	EACH	2	Missing Fasteners
319	2' N. OF S. TRUSS ON FLOOR BEAM 7'	14 - 15	EACH	5	Missing Rivets and Misdrilled Holes
362	STRINGER 4A AT FLOORB BEAM 7'	15	EACH	3	Misdrilled Holes
327	UGN-U7S, AT STRINGER 3 AND 5	16	EACH	2	Missing and Broken Fastener
460	LOS-LIS AT LIS	17	EACH	1	Misdrilled Hole
460	LIS-L2S AT LIS	17	EACH	1	Misdrilled Hole
46	LOS-LON AT LON CONNECTION TO PIER 1 (CATWALK)	17	EACH	1	Missing Bolt at Catwalk Connection
459	UON-UIS AT UON	17	EACH	4	Loose Bolts
465	L7N-L8N AT L7N	18	EACH	1	Misdrilled Hole
273	STRINGER 2 AT FLOOR BEAM 5, PAN. 5	21	EACH	1	Missing Bolt
33	STRINGER 6 ABOVE FLOOR BEAM 4	21	EACH	4	Holes in Web
417	S. GIRDER 5' FROM FLOOR BEAM 4	22	EACH	1	Misdrilled Hole
474	STRINGER 2, 3, 4, 5, AND 6 EAST OF FLOOR BEAM 5	22	EACH	10	Misdrilled Holes
336	STRINGER 3 AT FLOOR BEAM 2 ON E. FACE	23	EACH	2	Loose Bolts
336	STRINGER 4 AT FLOOR BEAM 2 ON E. FACE	23	EACH	2	Loose Bolts
477	STRINGER 2, 4' E OF FLOOR BEAM 2	30	EACH	1	Misdrilled Hole
478	FLOORBEAM 1-3, S. CANTILEVER BRACKET	34	EACH	12	Misdrilled Holes
480	N. GIRDER, BTW. FLOOR BEAM 4 AND 5	34	EACH	1	Misdrilled Hole
481	S. GIRDER, BTW. FLOOR BEAM 4 AND 6	34	EACH	2	Misdrilled Holes
		TO	TAL	91	

TABLE OF BOLT REPLACEMENTS

Bolt Notes:

cfa

FILE MODE PLOT

GRINDING	0F	WELDS

 015 NBIS INSPECTION EFICIENCY ITEM NO.	LOCATION	SPAN	UNIT	QTY.	DESCRIPTION
307	FLOOR BEAM 7, 39" SOUTH OF STC	13-14	EACH	1	Grind Weld to Remove ¹ 2" Crack only
473	FLOORBEAM 5, STRINGER 3	22	EACH	1	Partially Cracked Tack Weld
	NORTH GIRDER, TOP FLANGE TO				
375	FLOORBEAM 2 CANTILEVER	21	EACH	1	Fully Cracked Tack Weld
	SOUTH GIRDER, BEARING STIFFENER				
472	AT SOUTH FACE AT PIER 21	22	EACH	1	Partially Cracked Tack Weld
		TOT	AL	4	

TABLE OF REWELDING

2015 NBIS INSPECTION DEFICIENCY ITEM NO.	LOCATION	SPAN	UNIT	QTY.	DESCRIPTION
446	PLATFORM, E END OF CENTER STRUT	14 - 15	EACH	1	Broken Weld - Reweld
		<i>TOT</i>	AL	1	

Weld Notes:

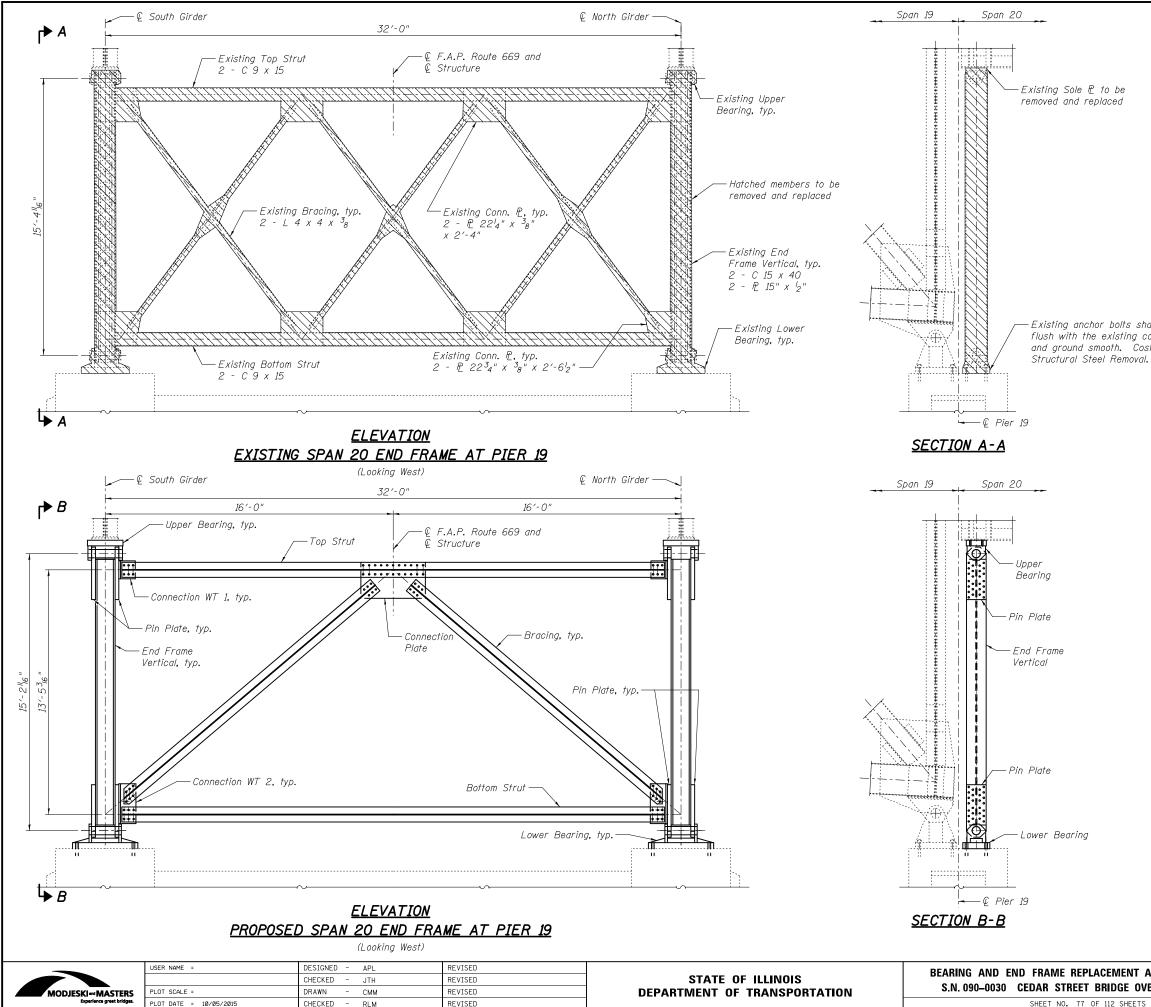
- Remove existing cracked welds by grinding smooth to an ANSI 250 finish.
- 2. Cost of removal or rewelding is included in STRUCTURAL STEEL REPAIR.
- 3. Grinding shall be done parallel to the longitudinal axis of the member. Ground surfaces shall be inspected for cracks using dye penetrant or magnetic particle testing. Any cracks that cannot be removed by grinding approximately ¹/₄" deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition.

							(•) Peoria / Tazewell
	USER NAME = cstokes	DESIGNED - DRB	REVISED		MISCELLANEOUS STEEL REPAIRS	F.A.P. SECTION	COUNTY TOTAL SHEET
	0900030-68A93-144-StrucSteelRepair.dgn	CHECKED - SDM	REVISED	STATE OF ILLINOIS		669 (103B)I-7	(•) 180 144
	PLOT SCALE = 0:2.0000 ':' / in.	DRAWN - TRF	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER		CONTRACT NO. 68A93
QUIGG ENGINEERING INC	PLOT DATE = 10/05/2015	CHECKED - DRB	REVISED		SHEET NO. 76 OF 112 SHEETS	ILLINO	S FED. AID PROJECT

1. Contractor shall verify Bolt length and diameter in field prior to ordering material.

2. All bolts shall be ASTM A325 Type 1, mechanically galvanized.

3. Cost of bolt replacement is included in STRUCTURAL STEEL REPAIR.



END FRAME REPLACEMENT PROCEDURE

1. Install jacking and cribbing. Jacking and cribbing shall bear snugly on girder bottom flanges.

- 2. Remove upper bearing attachment to girders ensuring that no damage is done to the existing girders.
- 3. Raise the girders a maximum of l_{B} inch.
- 4. Completely remove existing bearings and end frame.
- 5. Install new bearings and end frame.
- 6. Remove jacking and cribbing.

Existing anchor bolts shall be burned off flush with the existing concrete surface and ground smooth. Cost included with

BEARING REACTION TABLE

Sogo	Pier	Vertical					
Span	1 161	DL (k)	LL (k)	I (k)	Total (k)		
20	19	259	128	96	483		

Notes:

Estimated load to be supported during the end frame replacement is 295 tons. This load is based on an assumed construction live load of 20 psf. The Contractor shall determine the actual live load to be supported during construction and design the Temporary Shoring and Cribbing accordingly. This analysis shall be included with the calculations for temporary shoring and cribbing.

See Sheet 78 of 112 for End Frame Details.

See Sheet 79 of 112 for Upper Bearing Details.

See Sheet 80 of 112 for Lower Bearing details.

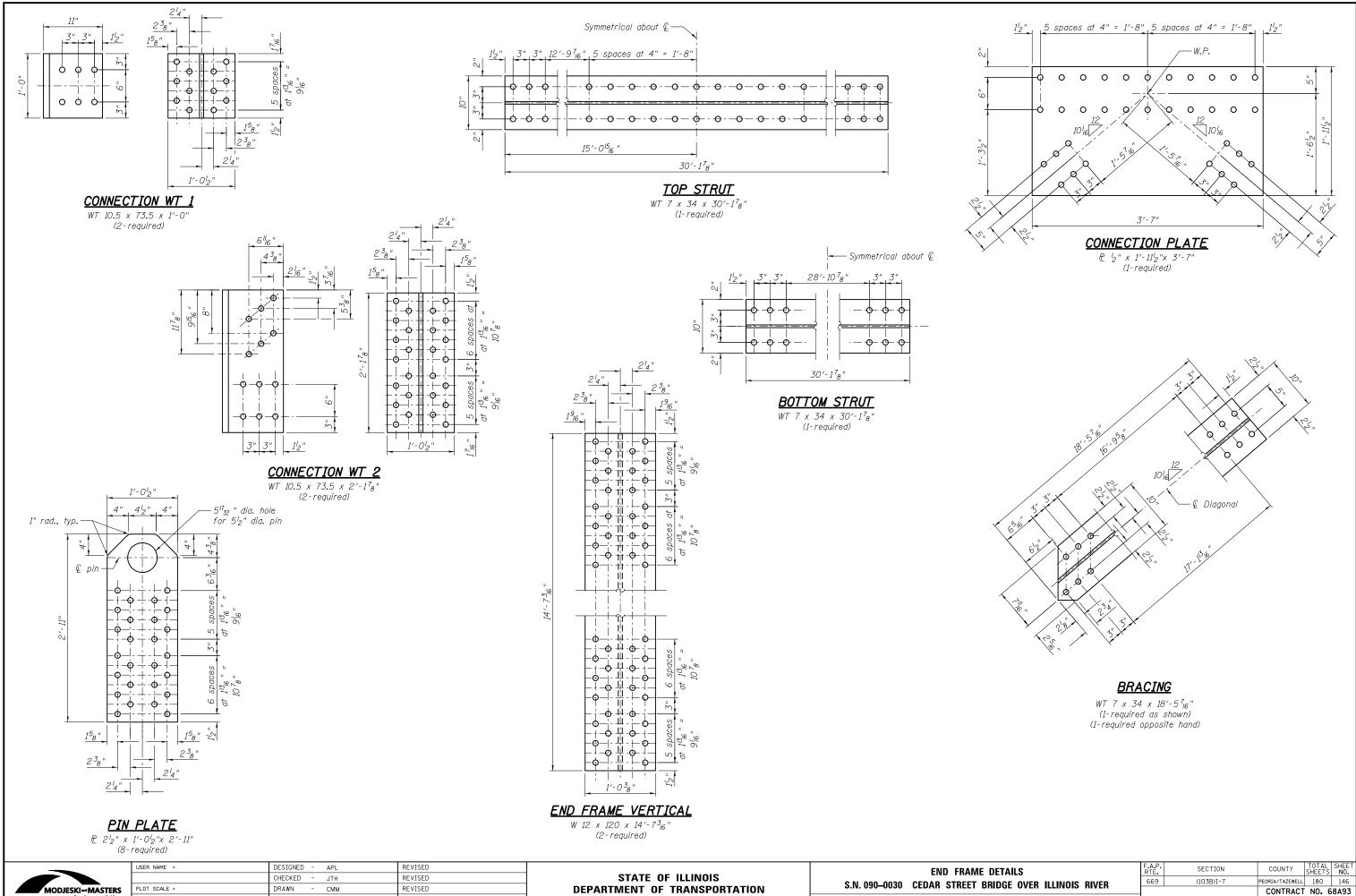
Cost to furnish and erect complete in-place the upper and lower bearings and end frame including all structural steel shapes and plates, bearing pins and nuts, and fasteners shall be paid for as Furnishing and Erecting Structural Steel. Anchor bolts for the lower bearings will be paid for separately.

Removal and disposal of the existing bearings, end frame and miscellaneous items identified on the plans shall be in accordance with the special provision Structural Steel Removal.

BILL OF MATERIAL

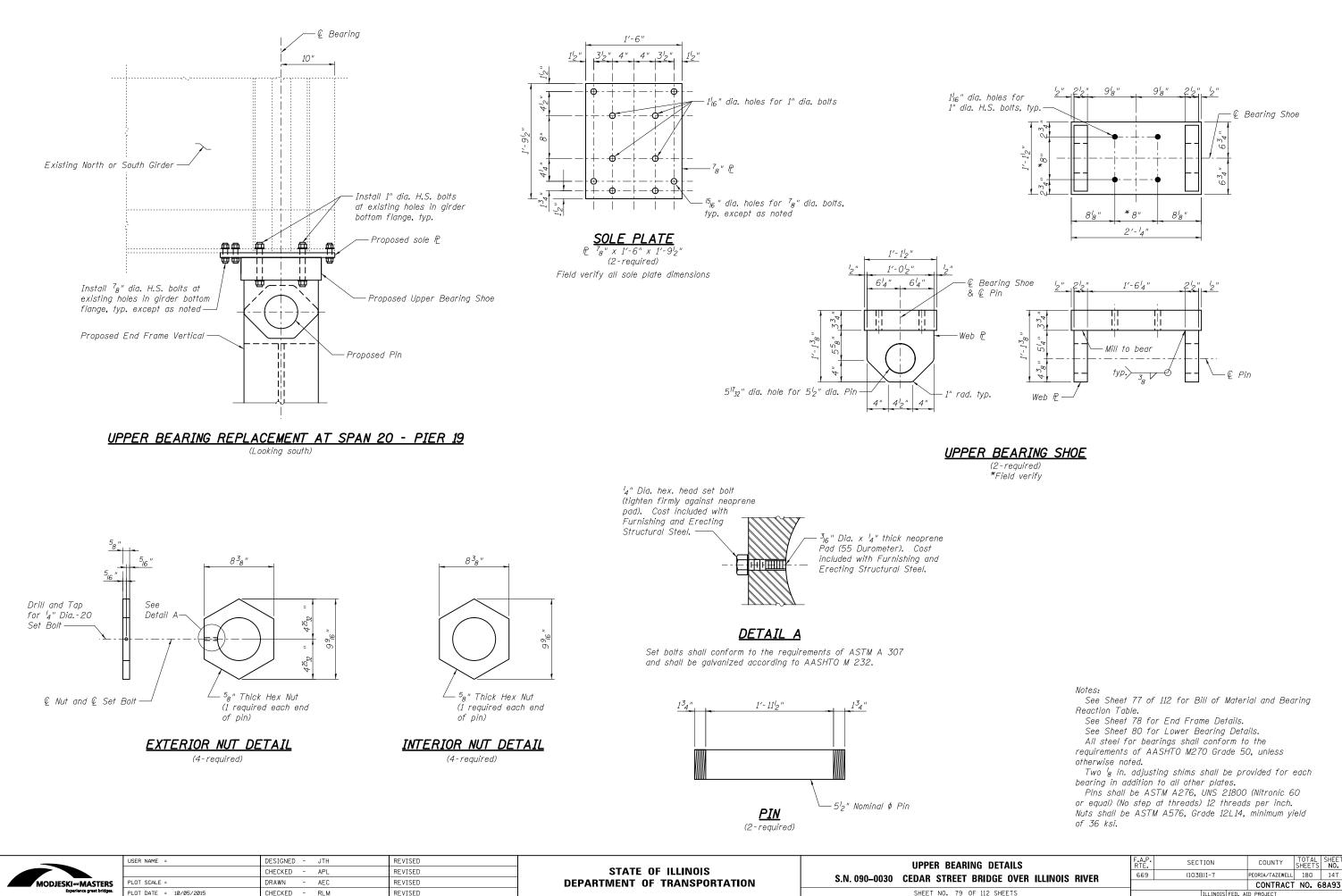
Item	Unit	Total
Furnishing and Erecting Structural Steel	L. Sum	1
Structural Steel Removal	L. Sum	1
Temporary Shoring and Cribbing	L. Sum	1

EMENT AT SPAN 20, PIER 19	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL	180	145
			CONTRACT	NO. 6	8A93
112 SHEETS		ILLINOIS FED. A	ID PROJECT		

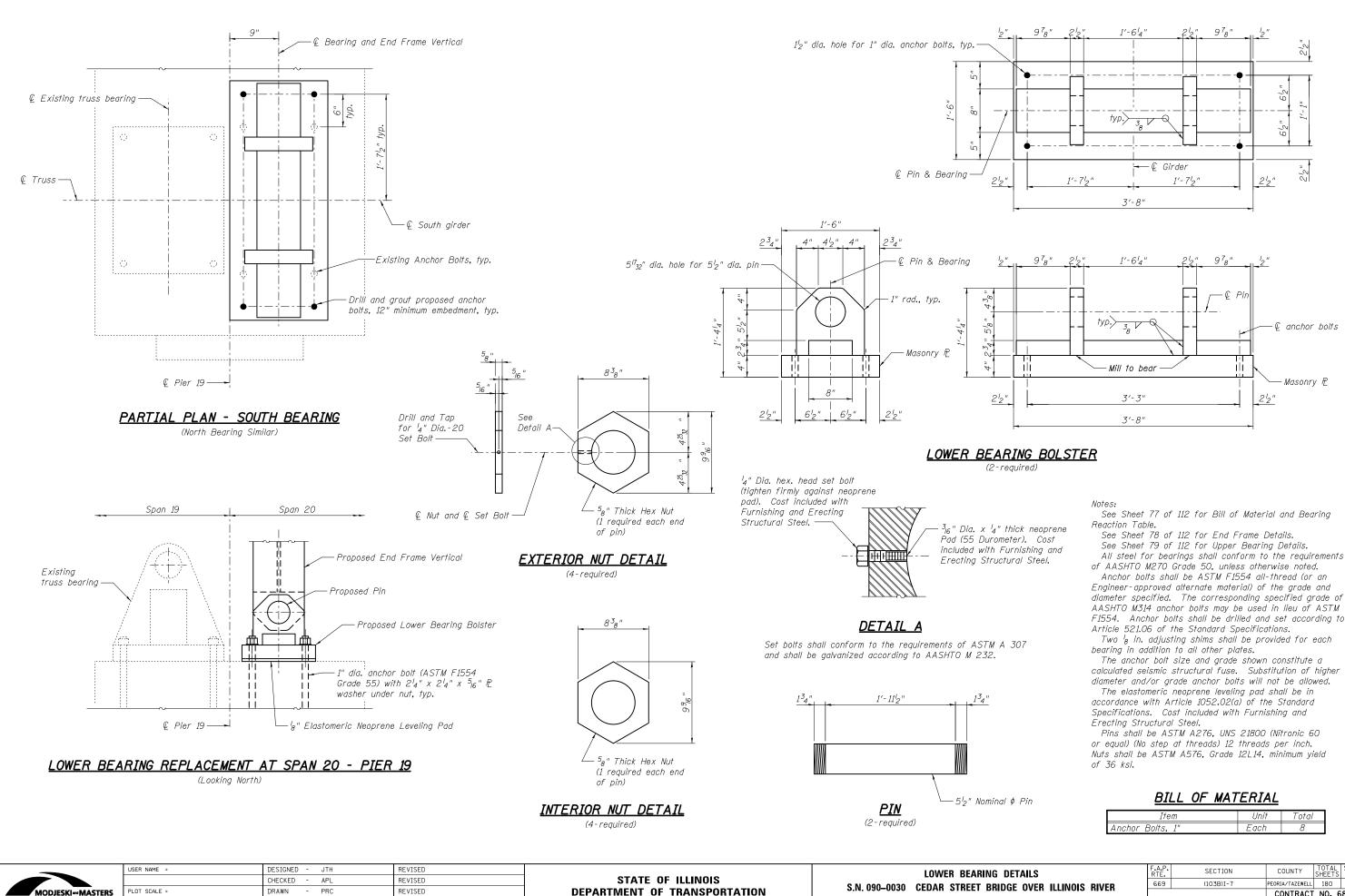


	USER NAME =	DESIGNED - APL	REVISED		END FRAME
		CHECKED - JTH	REVISED	STATE OF ILLINOIS	
MODJESKI	PLOT SCALE =	DRAWN - CMM	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 090–0030 CEDAR STREET B
Experience great bridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED		SHEET NO. 78 OF

TI I TP



See Sheet 77 of 112 for Bill of Material and Bearing Two $^{l}_{8}$ in. adjusting shims shall be provided for each Pins shall be ASTM A276, UNS 21800 (Nitronic 60 Nuts shall be ASTM A576, Grade 12L14, minimum yield TOTAL SHEETS SHEE NO. PEORIA/TAZEWELL 180 147



LOT DATE = 10/05/2015

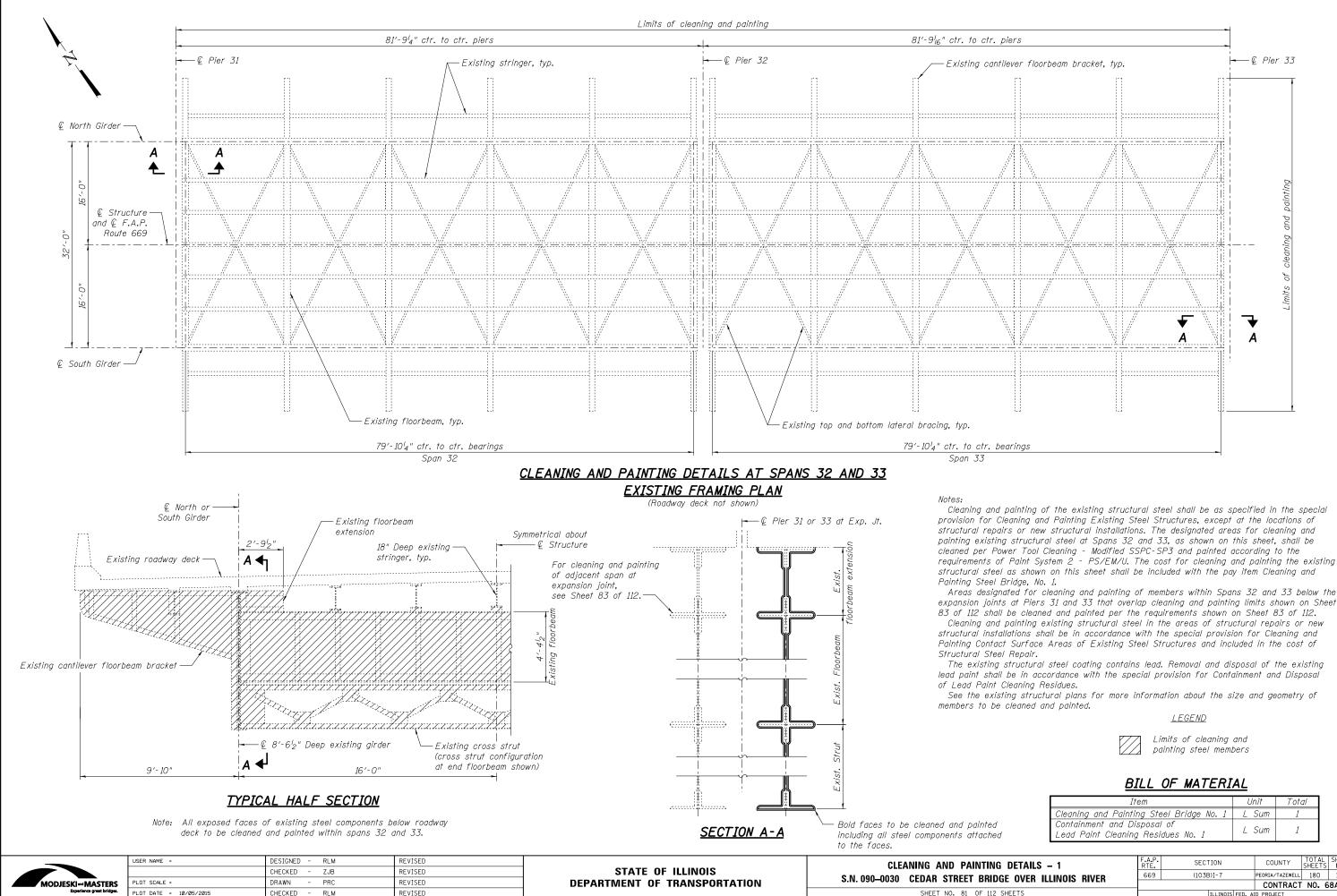
CHECKED - RLM

REVISED

diameter specified. The corresponding specified grade of F1554. Anchor bolts shall be drilled and set according to

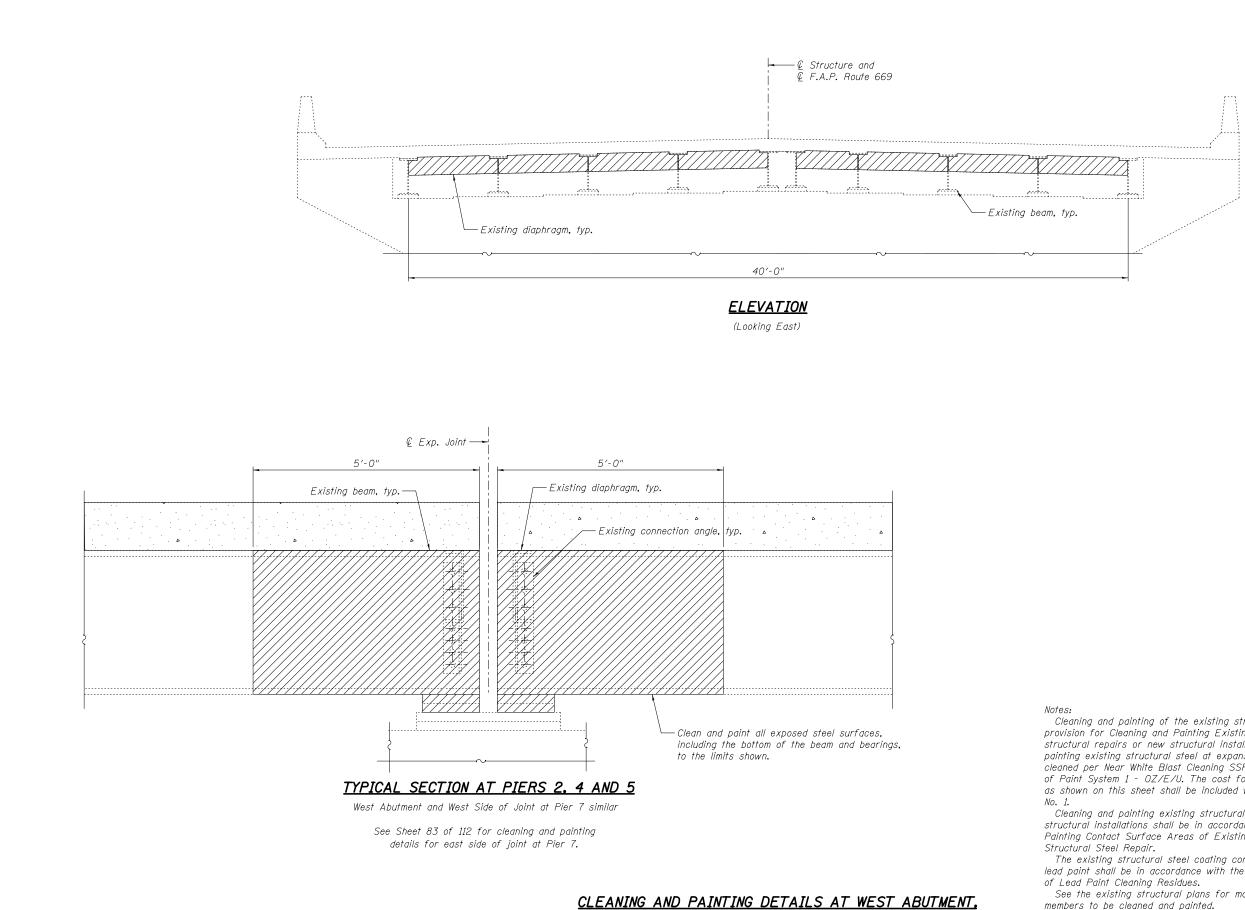
1	Item	Unit	Total
	Anchor Bolts, 1"	Each	8

G DETAILS	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL	180	148
INDEE OVEN ILEINOIS NIVEN			CONTRACT	NO. 6	8A93
112 SHEETS		ILLINOIS FED. A	ID PROJECT		



	Item	Unit	Total
	Cleaning and Painting Steel Bridge No. 1	L Sum	1
ed hed	Containment and Disposal of Lead Paint Cleaning Residues No. 1	L Sum	1

ING DETAILS – 1	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL	180	149
			CONTRACT	NO. 6	8A93
112 SHEETS	ILLINOIS FED. AID PROJECT				



PIERS 2, 4, 5, AND WEST SIDE OF JOINT AT PIER 7



LEGEND



Limits of cleaning and painting steel members

Cleaning and painting of the existing structural steel shall be as specified in the special provision for Cleaning and Painting Existing Steel Structures, except at the locations of structural repairs or new structural installations. The designated areas for cleaning and painting existing structural steel at expansion joints, as shown on this sheet, shall be cleaned per Near White Blast Cleaning SSPC - SPIO and painting to the requirements of Paint System 1 - OZ/E/U. The cost for cleaning and painting the existing structural steel as shown on this sheet shall be included with the pay item Cleaning and Painting Steel Bridge,

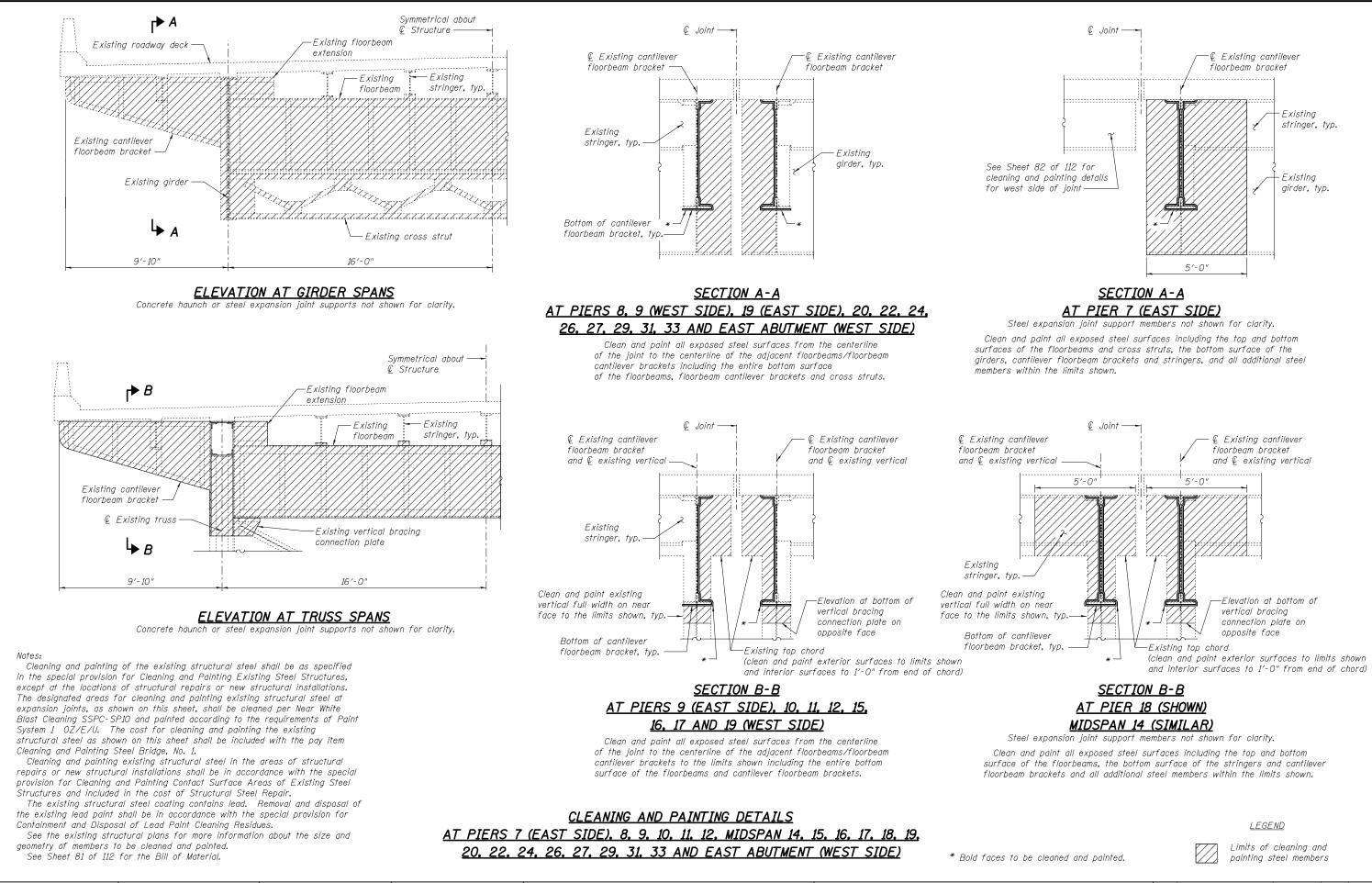
Cleaning and painting existing structural steel in the areas of structural repairs or new structural installations shall be in accordance with the special provision for Cleaning and Painting Contact Surface Areas of Existing Steel Structures and included in the cost of Structural Steel Repair.

The existing structural steel coating contains lead. Removal and disposal of the existing lead paint shall be in accordance with the special provision for Containment and Disposal of Lead Paint Cleaning Residues.

See the existing structural plans for more information about the size and geometry of members to be cleaned and painted.

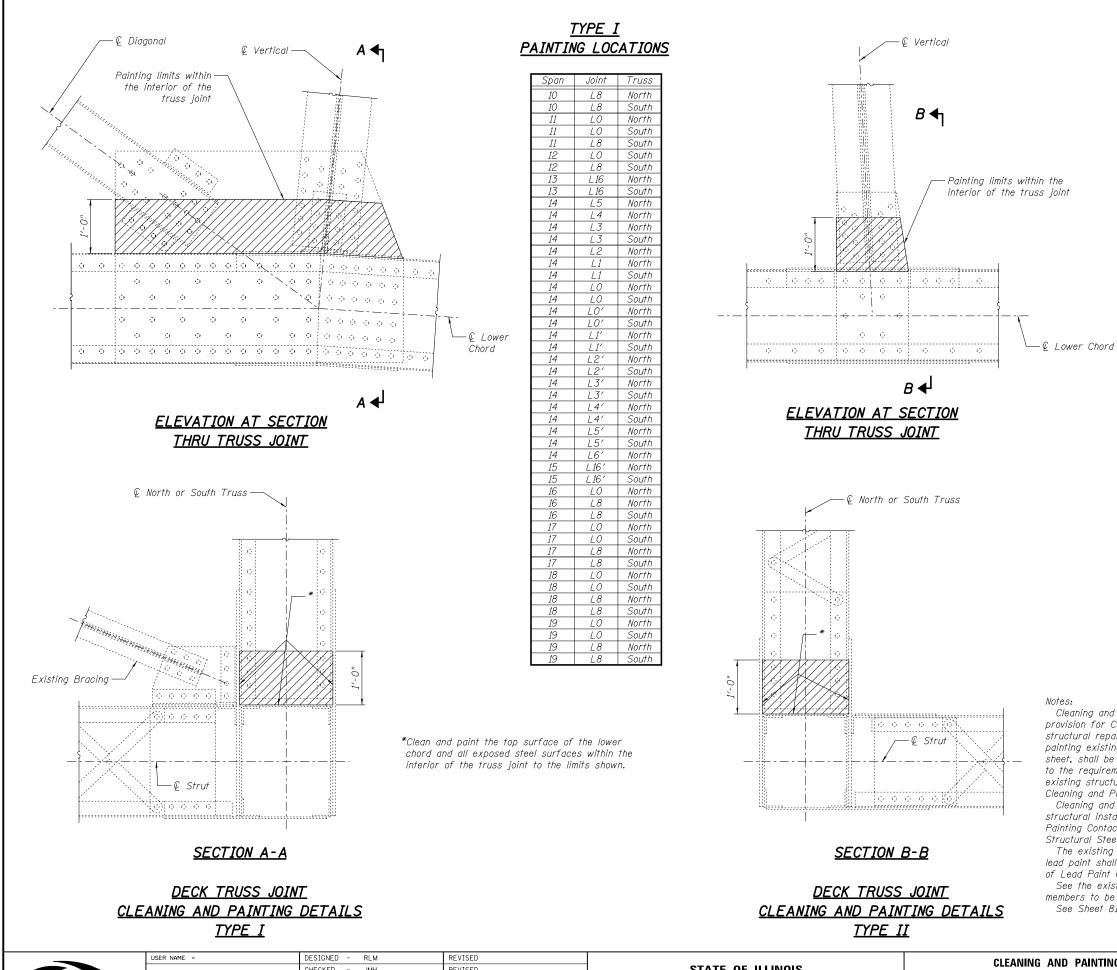
See Sheet 81 of 112 for the Bill of Material.

TING DETAILS – 2	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL	180	150
			CONTRACT	NO. 6	8A93
112 SHEETS	ILLINOIS FED. AID PROJECT				



	USER NAME =	DESIGNED - RLM	REVISED		CLEANING AND PAINTING
MODJESKI-MASTERS	PLOT SCALE =	CHECKED - APL DRAWN - AEC	REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	S.N. 090–0030 CEDAR STREET BRID(
Experience great bridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED		SHEET NO. 83 OF 112

NG DETAILS – 3	F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
IDGE OVER ILLINOIS RIVER	669	(103B)I-7		PEORIA/TAZEWELL	180	151
				CONTRACT	NO. 6	8A93
12 SHEETS		ILLINOIS FE	ED. AI	D PROJECT		



CHECKED - JMH REVISED STATE OF ILLINOIS STATE OF ILLINOIS CEDAR STREET BRIDGE OVER ILLINOIS RIVER	
	FEORIA/TAZEWELL IOU IJZ
MODJESKI-MASTERS PLOT SCALE - DRAWN - AEC REVISED DEPARTIVIENT OF TRANSPORTATION	CONTRACT NO. 68A93
Bigerience great bridges. PLOT DATE = 10/05/2015 CHECKED - RLM REVISED AILINOIS FED. AI	ID PROJECT

Structural Steel Repair.

<u>TYF</u>	<u>PE II</u>
PAINTING	LOCATIONS

		-
Span	Joint	Truss
10	L7	South
11	L1	South
11	L3	North
11	L3	South
11	L5	North
11	L7	South
12	L3	South
12	L5	South
12	L7	North
12	L7	South
13	L15	North
13	L <i>1</i> 5	South
13	L13	North
13	L13	South
13	L 11	North
13	L 11	South
13	L9	North
13	L9	South
15	L9′	North
15	L9′	South
15	L11′	South
15	L13'	North
15	L13'	South
15	L15′	North
15	L15′	South
16	L1	North
16	L3	North
16	L3	South
16	L5	North
16	L7	South
17	L7	South
18	L1	North
18	L1	South
18	L3	South

LEGEND

Limits of cleaning and painting steel members

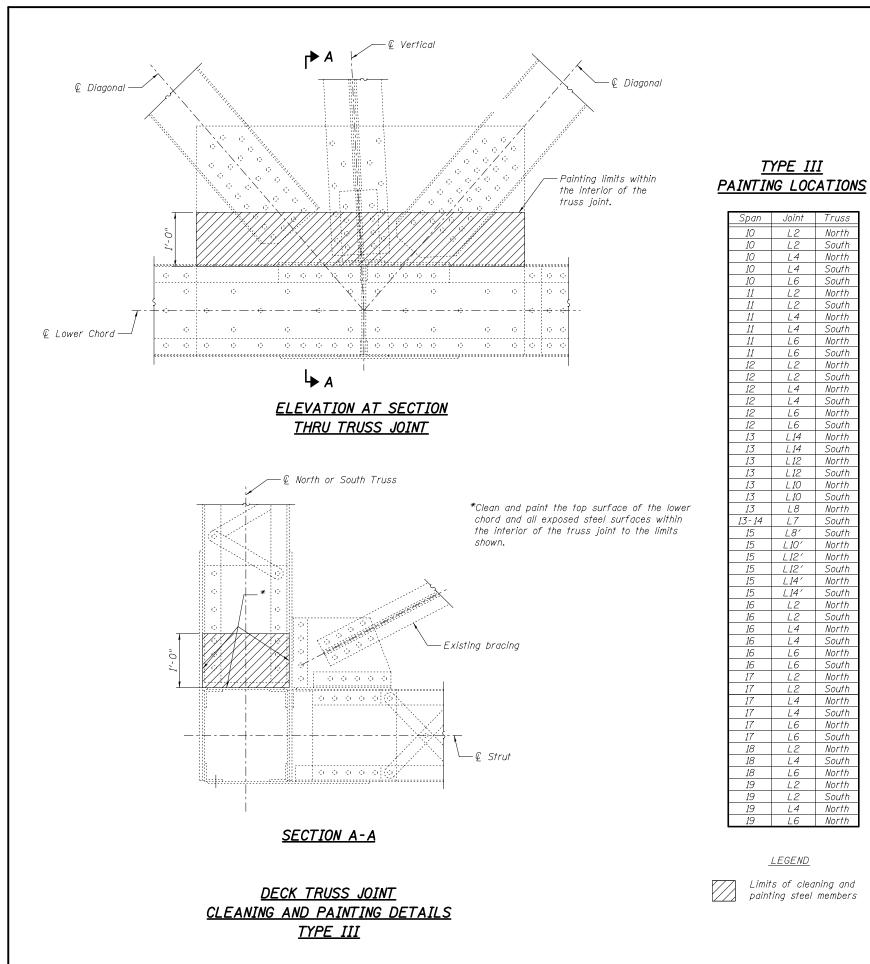
Cleaning and painting of the existing structural steel shall be as specified in the special provision for Cleaning and Painting Existing Steel Structures, except at the locations of structural repairs or new structural installations. The designated areas for cleaning and painting existing structural steel at the interior faces of truss joints, as shown on this sheet, shall be cleaned per Near White Blast Cleaning SSPC-SP10 and painted according to the requirements of Paint System 1 - OZ/E/U. The cost for cleaning and painting the existing structural steel as shown on this sheet shall be included with the pay item Cleaning and Painting Steel Bridge, No. 1.

Cleaning and painting existing structural steel in the areas of structural repairs or new structural installations shall be in accordance with the special provision for Cleaning and Painting Contact Surface Areas of Existing Steel Structures and included in the cost of

The existing structural steel coating contains lead. Removal and disposal of the existing lead paint shall be in accordance with the special provision for Containment and Disposal of Lead Paint Cleaning Residues.

See the existing structural plans for more information about the size and geometry of members to be cleaned and painted.

See Sheet 81 of 112 for the Bill of Material.



Span	Joint	Truss
10	L2	North
10	 L2	South
10	L4	North
10	L4	South
10	L6	South
10	L0 L2	North
	L2	South
11	L2 L4	North
11		
	L4	South
	L6	North
	L6	South
12	L2	North
12	L2	South
12	L4	North
12	L4	South
12	L6	North
12	L6	South
13	L14	North
13	L14	South
13	L 12	North
13	L 12	South
13	L 10	North
13	L10	South
13	L8	North
13-14	L7	South
15	L8'	South
15	L10'	North
15	L12'	North
15	L12'	South
15	L14'	North
15	L14'	South
15	L14 L2	North
	LZ L2	
16	LZ	South
16	L4	North
16	L4	South
16	L6	North
16	L6	South
17	L2	North
17	L2	South
17	L4	North
17	L4	South
17	L6	North
17	L6	South
18	L2	North
18	L4	South
18	L6	North
19	L2	North
19	L2	South
19	L4	North
19	L4 L6	North
1.5	0	

TYPE III

LEGEND

Limits of cleaning and painting steel members

Notes:

Steel Bridge, No. 1. Repair.

Paint Cleaning Residues. to be cleaned and painted.



	USER NAME =	DESIGNED - RLM	REVISED		CLEANING AND PAINTING DETAILS – 5	F.A.P. RTF	SECTION	COUNTY TOTAL SHEET
		CHECKED - JMH	REVISED	STATE OF ILLINOIS	S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL 180 153
MASTERS	PLOT SCALE =	DRAWN - AEC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 090-0030 CEDAR STREET DRIDGE OVER ILLINUIS RIVER			CONTRACT NO. 68A93
ce great bridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED		SHEET NO. 85 OF 112 SHEETS		ILLINOIS FED. A	ID PROJECT

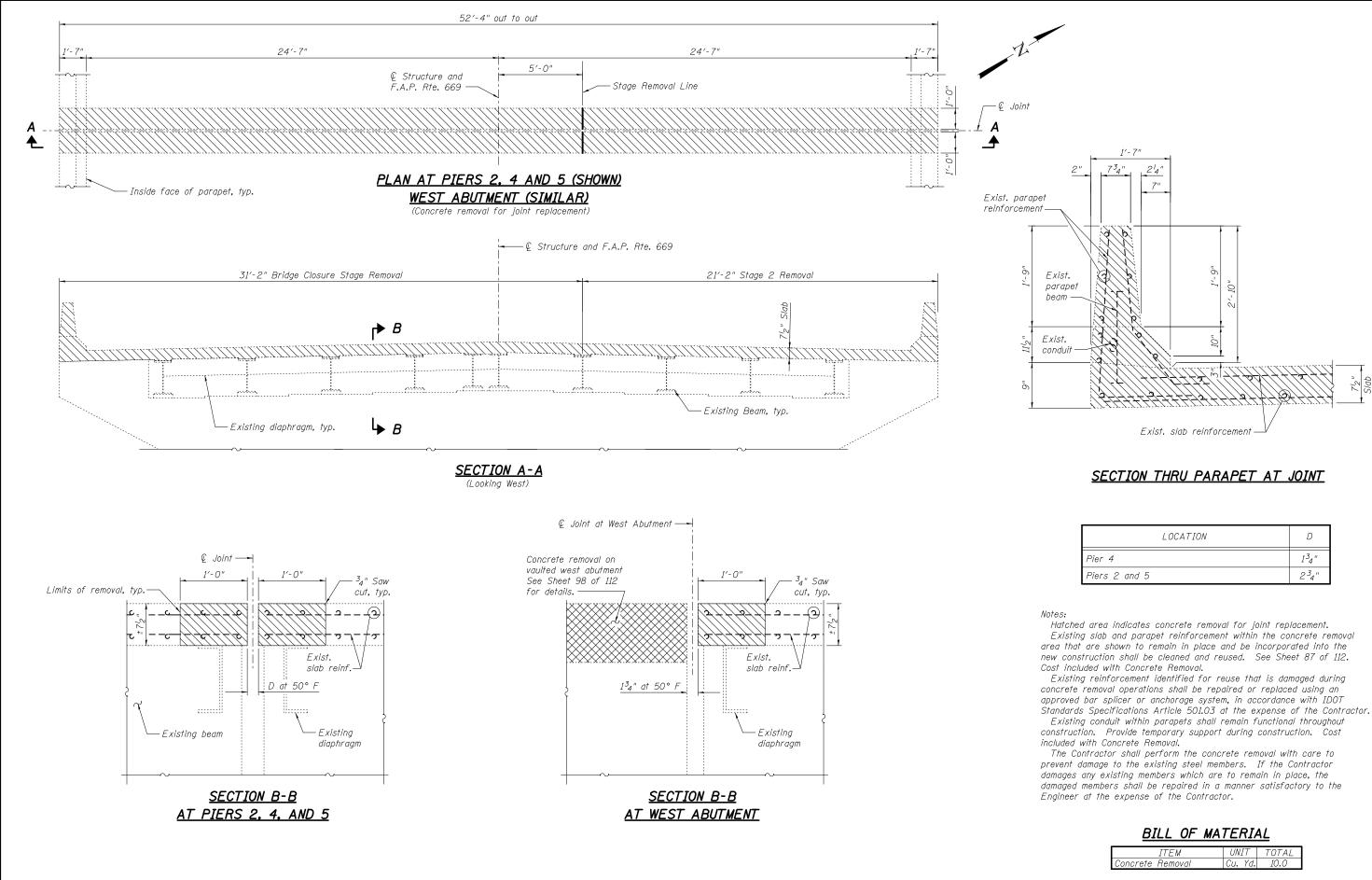
Cleaning and painting of the existing structural steel shall be as specified in the special provision for Cleaning and Painting Existing Steel Structures, except at the locations of structural repairs or new structural installations. The designated areas for cleaning and painting existing structural steel at the interior faces of truss joints, as shown on this sheet, shall be cleaned per Near White Blast Cleaning SSPC-SP10 and painted according to the requirements of Paint System 1 - OZ/E/U. The cost for cleaning and painting the existing structural steel as shown on this sheet shall be included with the pay item Cleaning and Painting

Cleaning and painting existing structural steel in the areas of structural repairs or new structural installations shall be in accordance with the special provision for Cleaning and Painting Contact Surface Areas of Existing Steel Structures and included in the cost of Structural Steel

The existing structural steel coating contains lead. Removal and disposal of the existing lead paint shall be in accordance with the special provision for Containment and Disposal of Lead

See the existing structural plans for more information about the size and geometry of members

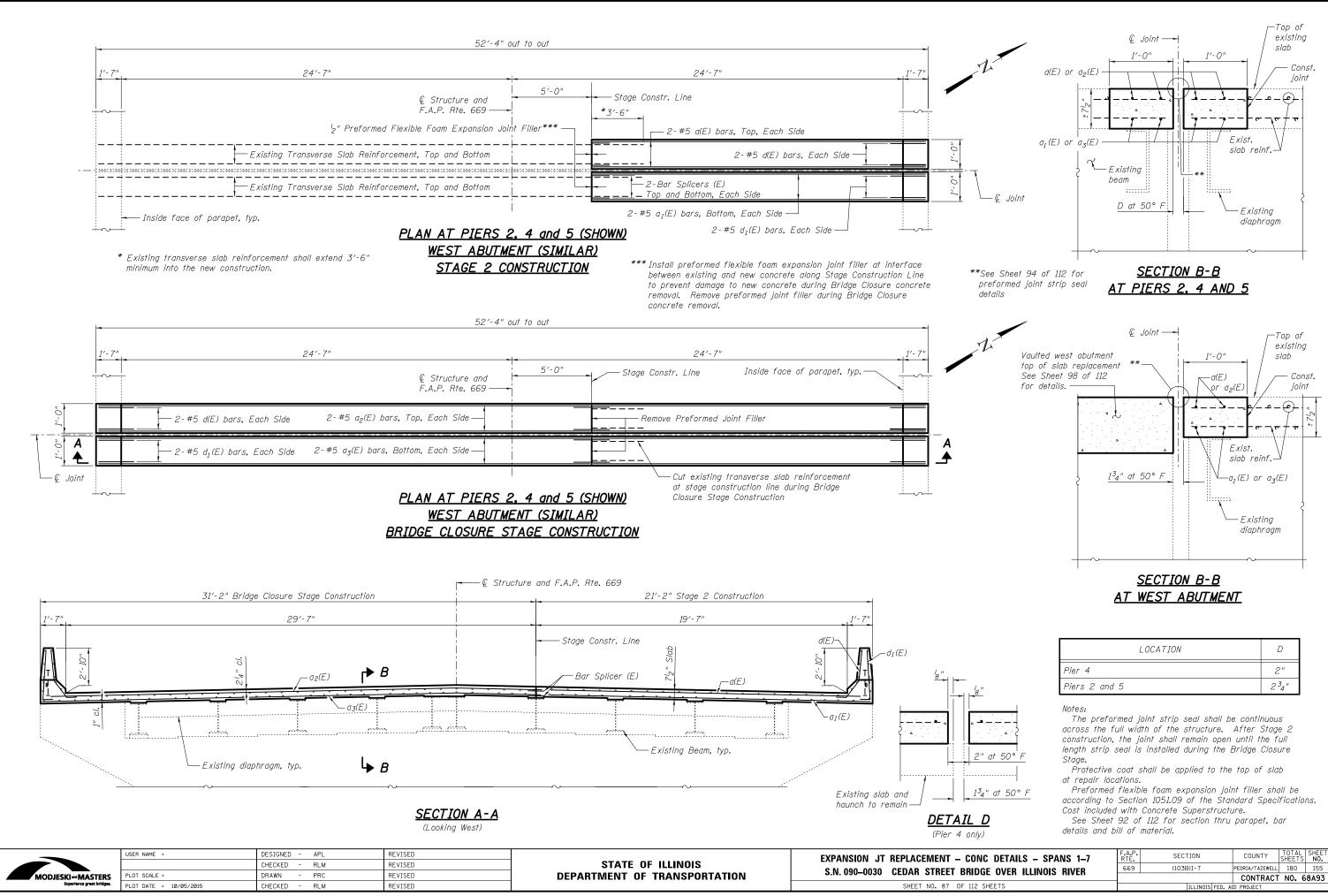
See Sheet 81 of 112 for the Bill of Material.



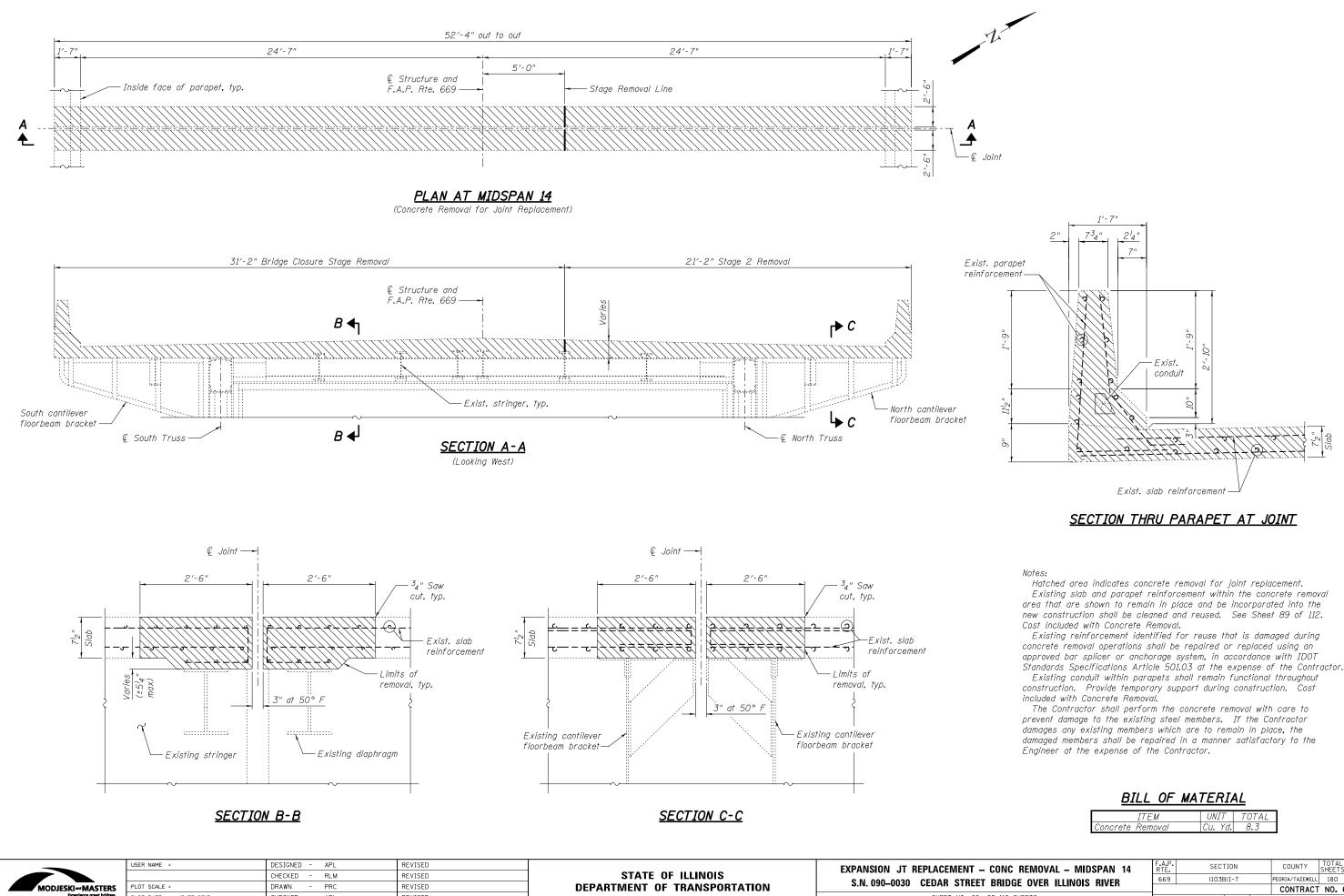
	USER NAME =	DESIGNED - APL	REVISED		EXPANSION JT REPLACEMENT – CONC REMOVAL – SPANS 1–7	F.A.P. RTF.	SECTION	COUNTY TOTAL SHEET
		CHECKED - RLM	REVISED	STATE OF ILLINOIS	S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL 180 154
MODJESKI MASTERS	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	3.IV. 090-0030 GEDAN STREET BNIDDE OVER ILLINOIS NIVEN			CONTRACT NO. 68A93
Experience great bridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED		SHEET NO. 86 OF 112 SHEETS		ILLINOIS FED	AID PROJECT

LOCATION	D
Pier 4	134"
Piers 2 and 5	2³4″

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	10.0



ONC DETAILS – SPANS 1–7	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
IDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL	180	155	
			CONTRACT	NO. 6	8A93	
12 SHEETS	ILLINOIS FED. AID PROJECT					



LOT DATE = 10/05/2015

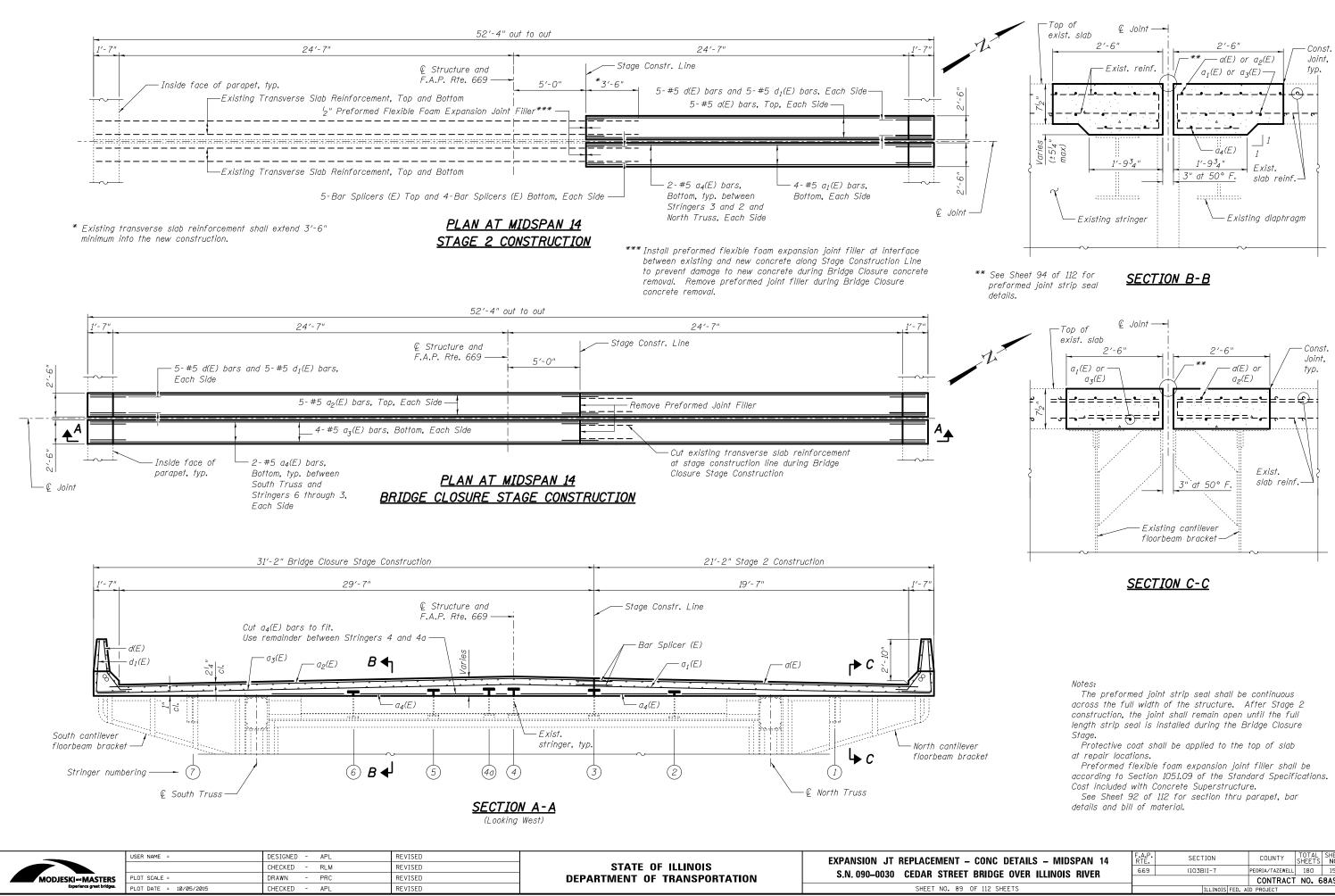
CHECKED - APL

REVISED

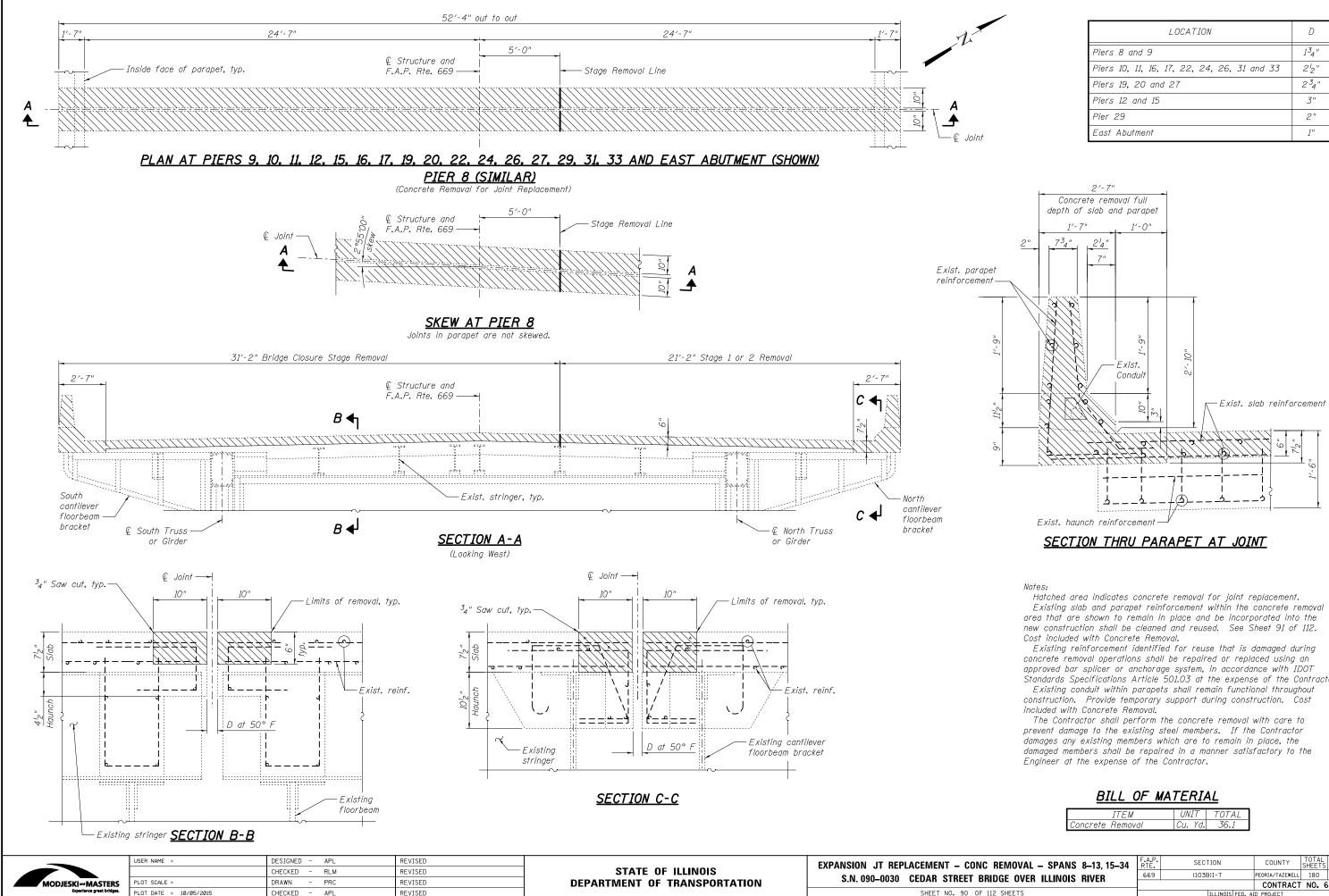
SHEET NO. 88 OF

ITE	M UI	VIT	TOTAL
Concrete Rem	oval Cu.	. Yd.	8.3

DNC REMOVAL – MIDSPAN 14	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL	180	156
			CONTRACT	NO. 6	8A93
112 SHEETS	ILLINOIS FED. AID PROJECT				



ONC DETAILS – MIDSPAN 14	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL	180	157	
			CONTRACT	NO. 6	8A93	
112 SHEETS	ILLINOIS FED. AID PROJECT					

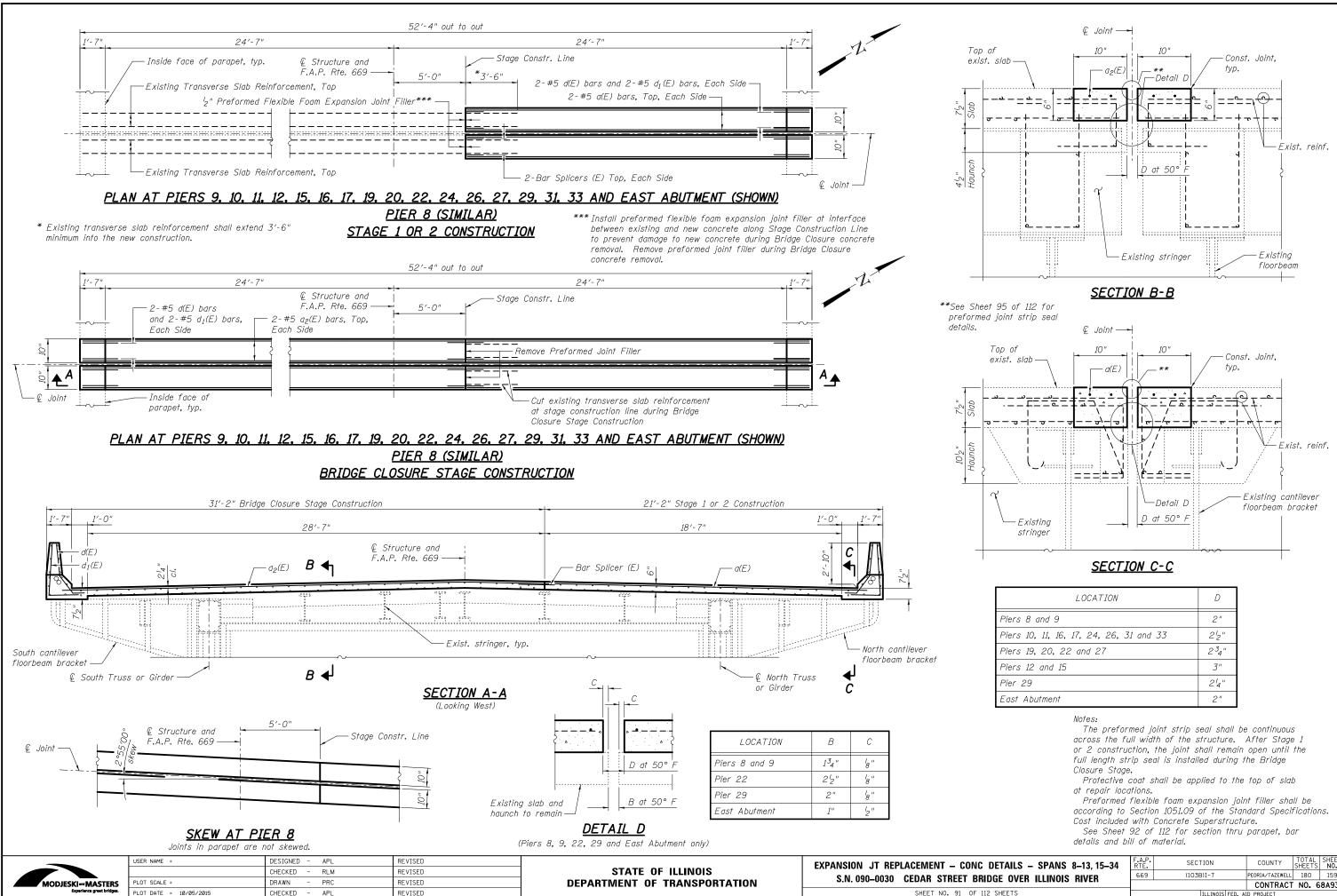


LOCATION	D
Piers 8 and 9	134"
Piers 10, 11, 16, 17, 22, 24, 26, 31 and 33	2'2"
Piers 19, 20 and 27	234"
Piers 12 and 15	3"
Pier 29	2"
East Abutment	1"

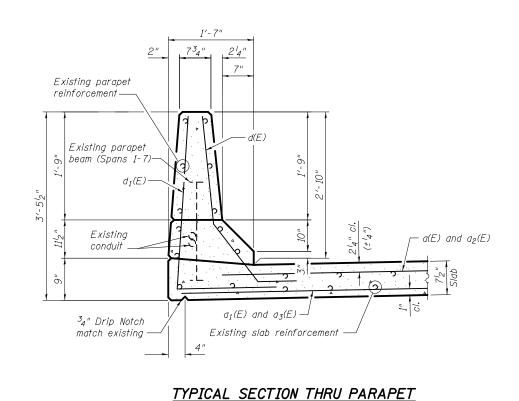
Standards Specifications Article 501.03 at the expense of the Contractor.

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	36.1

REMOVAL – SPANS 8–13, 15–34	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL	180	158
			CONTRACT	NO. 6	8A93
112 SHEETS	ILLINOIS FED. AID PROJECT				



DETAILS – SPANS 8–13, 15–34	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL	180	159
			CONTRACT	NO. 6	8A93
112 SHEETS		ILLINOIS FED. AI	D PROJECT		



BILL OF MATERIAL SPANS 1-7

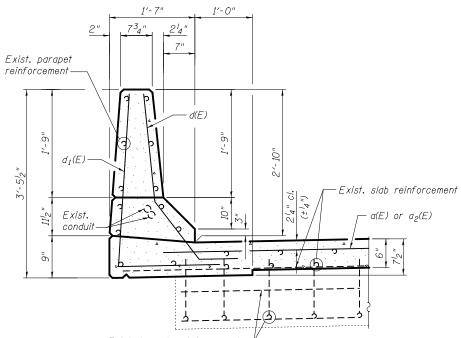
(Total for 4 joints)

			5	
Bar	No.	Size	Length	Shape
a(E)	14	#5	20'-3"	
a1(E)	14	#5	20'-9"	
a ₂ (E)	14	#5	30′-4″	
a3(E)	14	#5	30'-11"	
d(E)	28	#5	4'-0"	l
$d_I(E)$	28	#5	5'-2"	L
Concre	te		Cu. Yd.	10.0
Supers	tructure	,	<i>cu. /u.</i>	10.0
Protective Coat		Sq. Yd.	39	
Reinfor Epoxy	cement Coated	Bars,	Pound	1,770

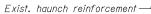
BILL OF MATERIAL

MIDSPAN 14 (Total for 1 joint)

Bar	No.	Size	Length	, v
a(E)	10	#5	20'-3"	-
a1(E)	8	#5	20'-9"	-
a ₂ (E)	10	#5	30'-4"	-
a3(E)	8	#5	30'-11"	-
a4(E)	24	#5	4'-8"	-
d(E)	20	#5	4'-0"	
d1(E)	20	#5	5'-2"	
Concre	te		Cu, Yd,	
Supers	tructure	2	<i>cu. ru.</i>	
Protect	ive Coa	t	Sq. Yd.	
Reinfor	cement	Bars,	Pound	
Ероху	Coated		1 00/10	-

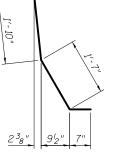


SPANS 1-7 AND MIDSPAN 14 All edges shall have 3_4 " chamfer.

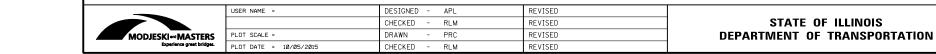


TYPICAL SECTION THRU PARAPET <u>SPANS 8-13, 15-34</u>

All edges shall have $\frac{3}{4}$ " chamfer.







Shape
l
L
8.3
28
1,270

<u>BILL</u>	0F	MA7	ERI	[<u>AL</u>
SPAN	IS 8	-13.	15-	34

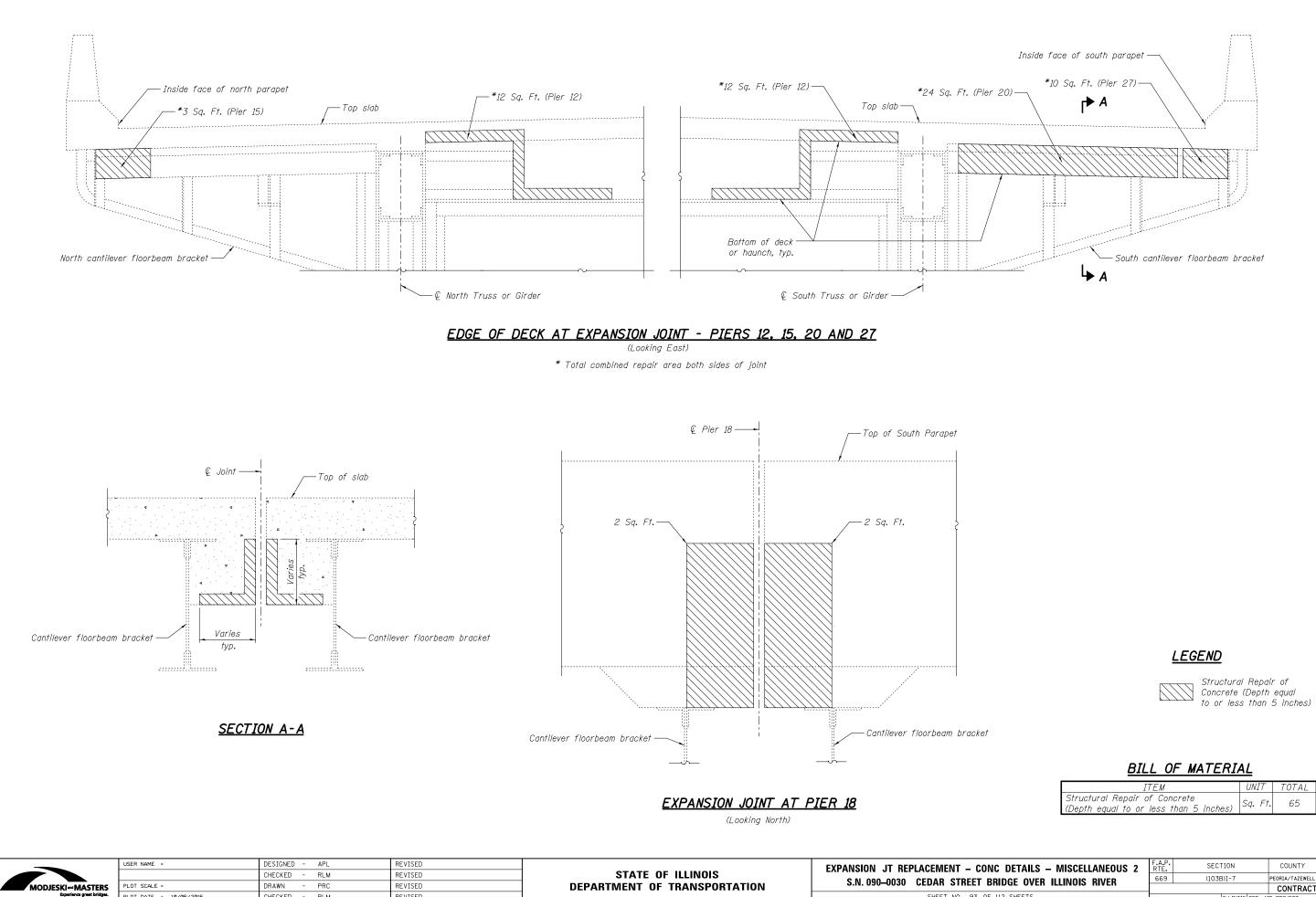
(Total for 18 joints)

Bar	No.	Size	Length	Shape
a(E)	72	#5	20'-3"	
а ₂ (Е)	72	#5	30'-4"	
d(E)	144	#5	4'-0"	ι
$d_1(E)$	144	#5	5′-2″	L
Concre	te		Cu. Yd.	36.1
,	tructure		<i>cu. /u.</i>	50.1
Protective Coat		Sq. Yd.	164	
Reinforcement Bars,		Pound	5.180	
Ероху	Coated			5,100



BAR d1(E)

C DETAILS – MISCELLANEOUS 1	F.A.P. RTE	RTE. SECTION		TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER		(103B)I-7	PEORIA/TAZEWELL	180	160
			CONTRACT	NO. 6	8A93
112 SHEETS	ILLINOIS FED. AID PROJECT				



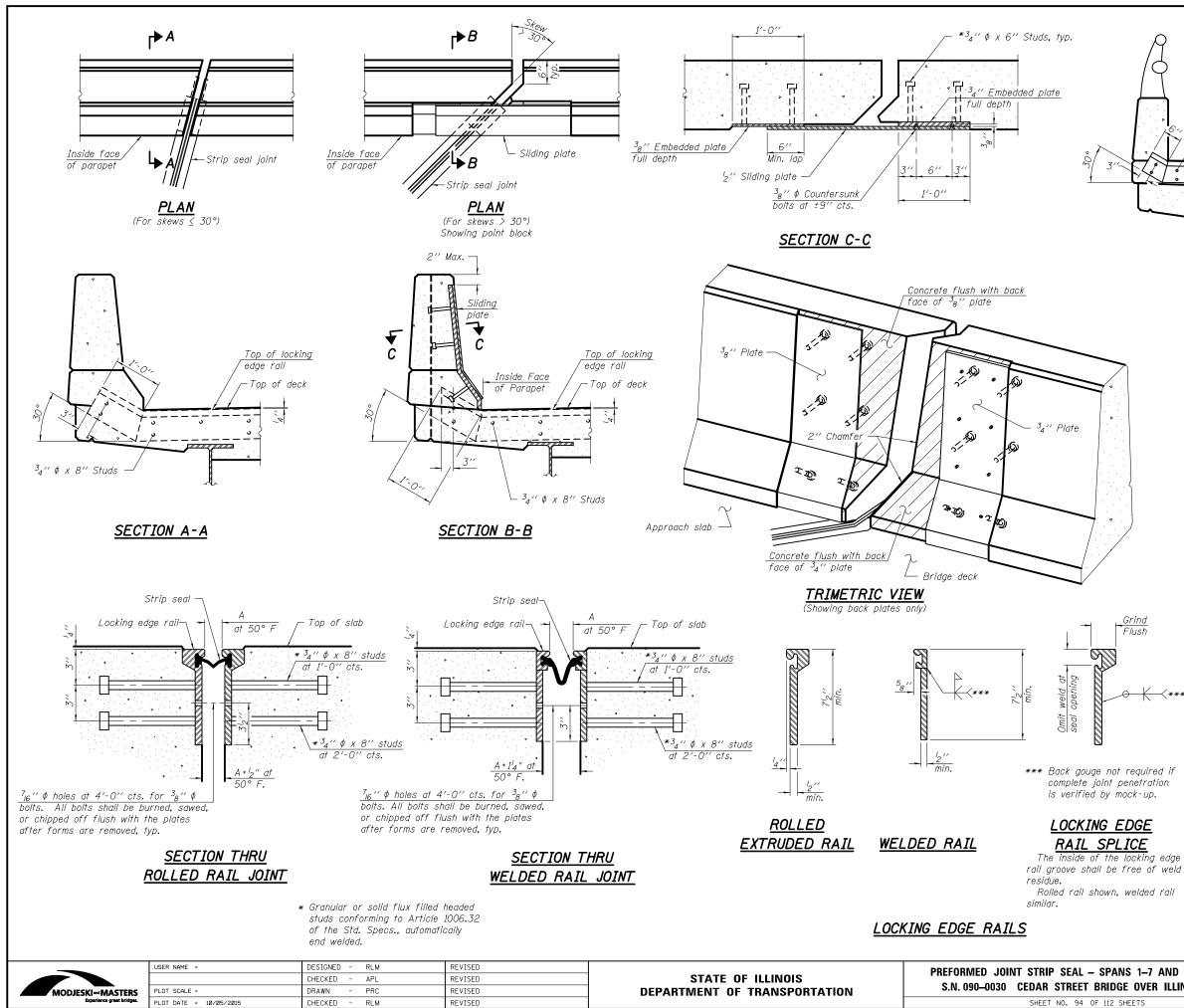
PLOT DATE = 10/05/2015

CHECKED - RLM

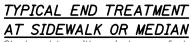
REVISED

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	65

C DETAILS – MISCELLANEOUS 2	F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
IDGE OVER ILLINOIS RIVER	669	(103B)I-7		PEORIA/TAZEWELL	180	161
				CONTRACT	NO. 6	8A93
12 SHEETS		ILLINOIS	FED. A	ID PROJECT		



A	
S Top of sidewalk or median	Ten of looking
	Top of locking edge rail



Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

Notes

The strip seal shall be made continuous and shall have a minimum thickness of l_4'' . The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches at the west abutment and piers 2, 4, and 5. The gland shall be sized for a maximum rated movement of 5 inches at Midspan 14.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments shall be $^{3}_{l6}$ $^{\prime\prime}$ sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

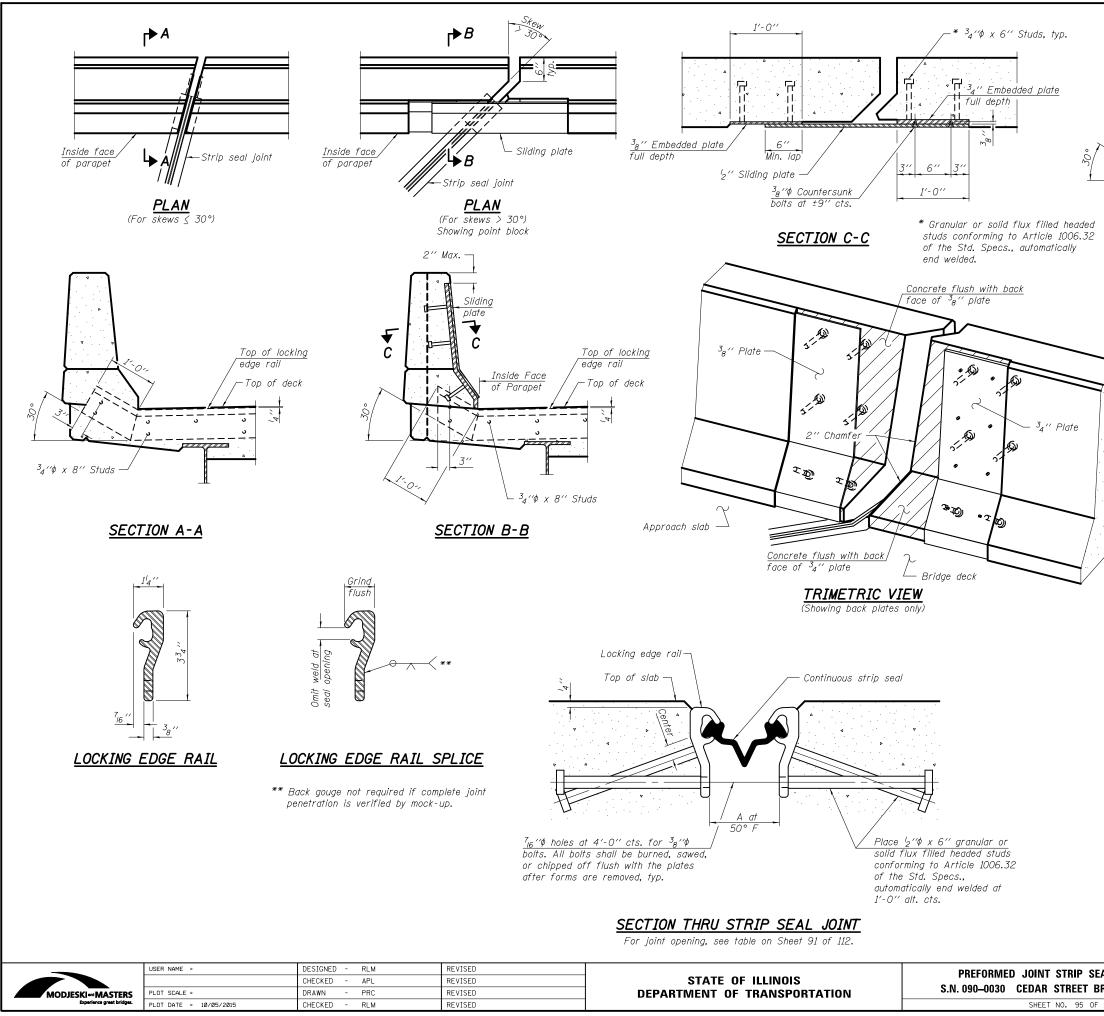
Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.

For joint opening, see table on Sheets 87 and 89 of 112.

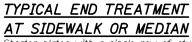
BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	256

SPANS 1–7 AND MIDSPAN 14	F.A.P. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.		
RIDGE OVER ILLINOIS RIVER	669	(103E	3)I-7		PEORIA/TAZEWELL	180	162
					CONTRACT	NO. 6	8A93
112 SHEETS			ILLINOIS	FED. A	D PROJECT		



A	
- ³ 4''\$ x 8'' Studs <u>S</u> <u>Top of sidewalk</u> or median	
	Top of locking edge rail
	1



Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of $'_4$ ". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

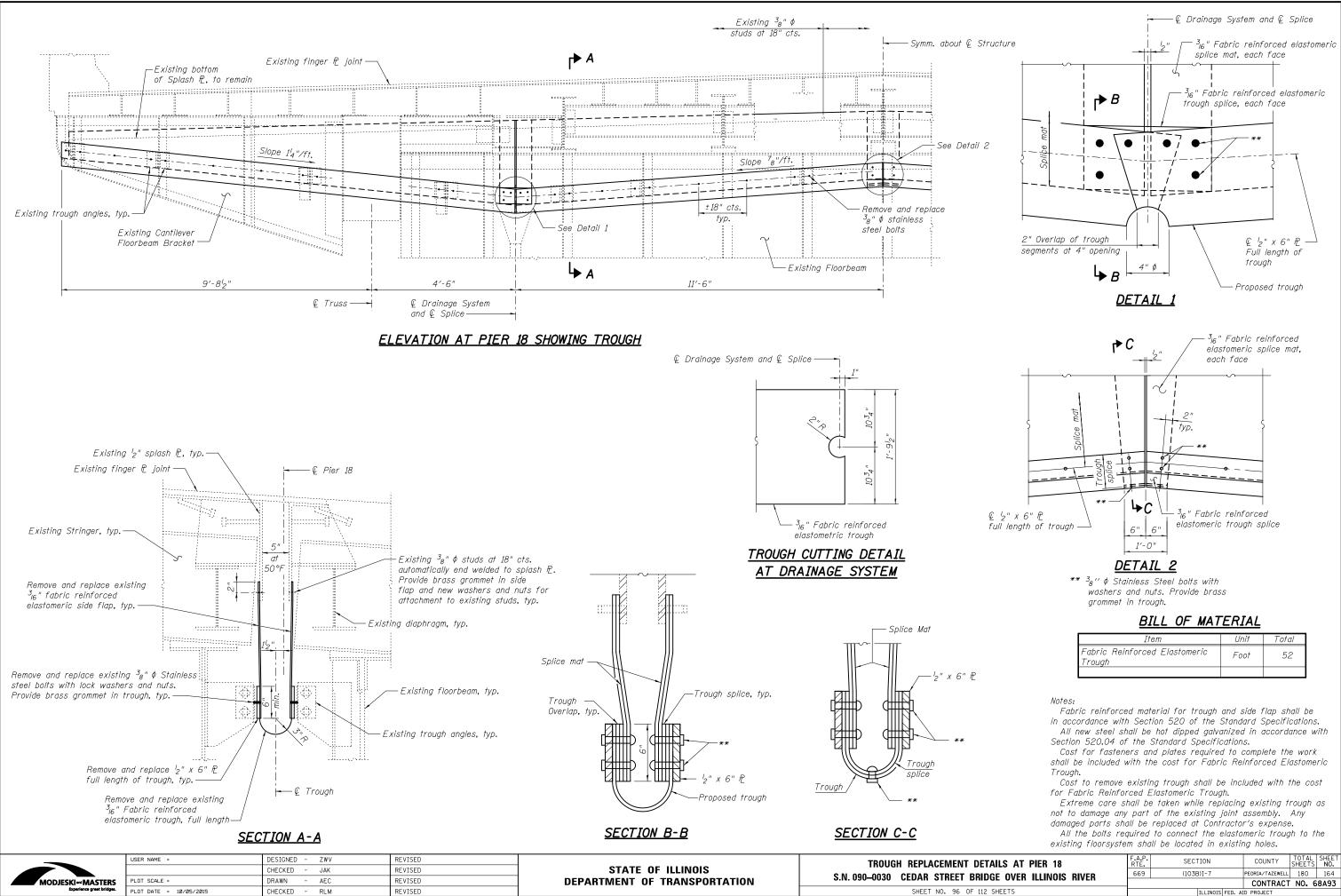
Maximum space between rail segments shall be ${}^3_{16}$ ", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	922

AL – SPANS 8–13, 15–34	F.A.P. RTE	SECTION		COUNTY	TOTAL SHEET SHEETS NO. ELL 180 163 CT NO. 68A93	
IDGE OVER ILLINOIS RIVER	669	(103B)I-7		PEORIA/TAZEWELL	180	163
				CONTRACT	NO. 6	8A93
112 SHEETS		ILLINOIS	FED. A	ID PROJECT		



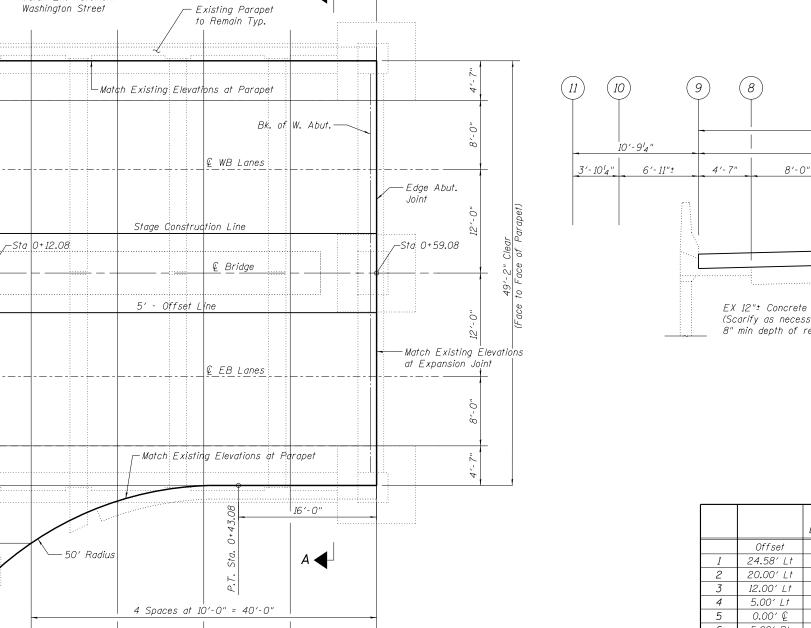
TAILS AT PIER 18 DGE OVER ILLINOIS RIVER 2 SHEETS	F.A.P. RTE,	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL	180	164
NIDAL OVEN ILLINOIS NIVEN			CONTRACT	NO. 6	8A93
112 SHEETS		ILLINOIS FED. A	ID PROJECT		



Cap bolt between the E&L in "MUELLER" on Fire Hydrant at the Northeast Quadrant of Washington St. and MacArthur. Sta 110+47.04, 31.83' Lt Elev = 486.226

7

24'-7"



47'-0"±

D

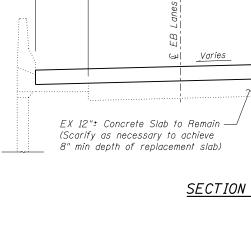
PLAN West Abutment Approach Slab Ē

F

-Match Ex, Pavement @

Washington Street

A 🗲



|--|

		А	В	С	D	E	F
		End Abut. Slab					Edge Abut. Jt.
	Offset	Sta 0+12.08	Sta 0+19.08	Sta 0+29.08	Sta 0+39.08	Sta 0+49.08	Sta 0+59.08
1	24.58′ Lt	482.12	482.51	482.87	483.38	483.69	484.14
2	20.00′ Lt	482.25	482.60	482.95	483.43	483.76	484.22
3	12.00′ Lt	482.45	482.76	483.09	483.52	483.87	484.34
4	5.00′ Lt	482.59	482.90	483.21	483.60	483.98	484.43
5	0.00′ €	482.70	483.00	483.30	483.65	484.05	484.50
6	5.00' Rt	482.59	482.89	483.22	483.58	483.99	484.43
7	12.00′ Rt	482,43	482.73	483.10	483.49	483.91	484.32
8	20.00' Rt	482.25	482.56	482.97	483.39	483.81	484.16
9	24.58′ Rt	482.14	482.45	482.90	483.33	483.76	484.11
10	31.50' Rt	482.04	482.30				
11	35.35′ Rt	482.02					

	0 0
	USER NAME = rgoertz
	0900030-68A93-165-WestAbutSlabEl
	PLOT SCALE = 0.1667 '/ 10.
QUIGG ENGINEERING INC	PLOT DATE = 10/05/2015

							(•) Peoria / Tazewell
	USER NAME = rgoertz	DESIGNED - DRB	REVISED		VAULTED WEST ABUTMENT TOP OF SLAB ELEVATIONS	F.A.P. SECTION	COUNTY TOTAL SHEET
DEI	0900030-68A93-165-WestAbutSlabElevs.dgn	CHECKED - SDM	REVISED	STATE OF ILLINOIS	S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER	669 (103B)I-7	(•) 180 165
	PLOT SCALE = 0.1667 '/ in.	DRAWN - TRF	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 090-0030 GEDAN SINEEI BRIDGE OVEN ILLINDIS NIVEN		CONTRACT NO. 68A93
NGINEERING INC	PLOT DATE = 10/05/2015	CHECKED - DRB	REVISED		SHEET NO. 97 OF 112 SHEETS	ILLINOIS FED.	AID PROJECT

(1)

(2)

(3)

(4)

(5)

6

7

(8)

(9)

(10)

(11)

3′-10′4″ —

7′-0″±

(A)

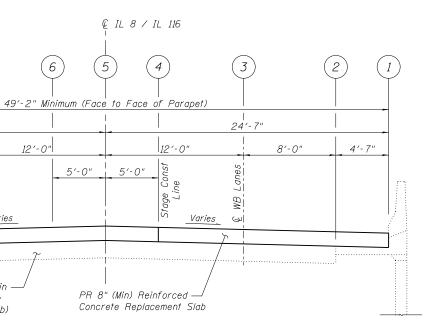
(B)

С

WASHINGTON ST.

D

Ъù

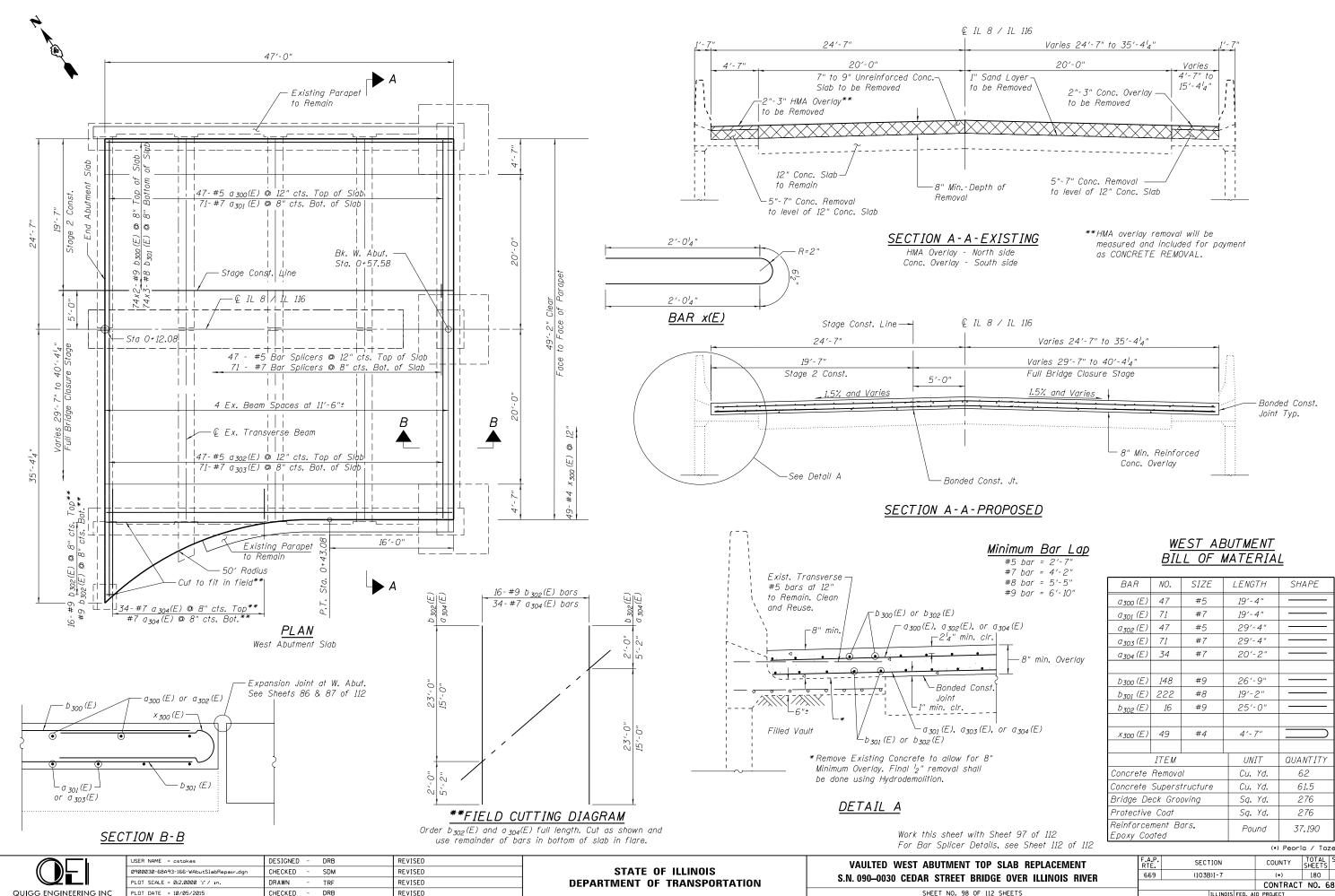


SECTION A-A THRU APPROACH SLAB

Looking NorthWest

AB ELEVATIONS

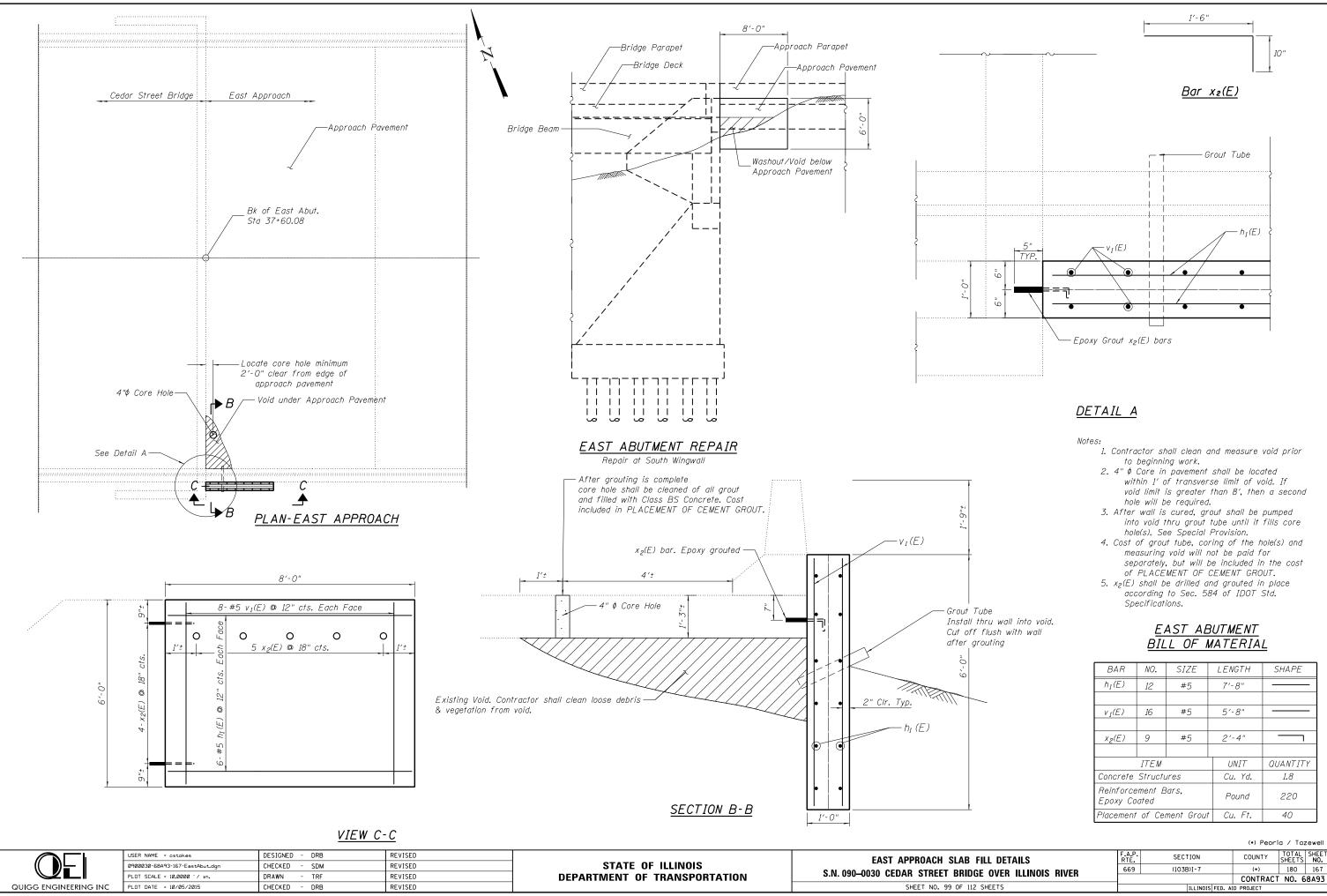
Note: Work this sheet with Sheet 98 of 112



S:\Projec Default IDDT PDF FILE

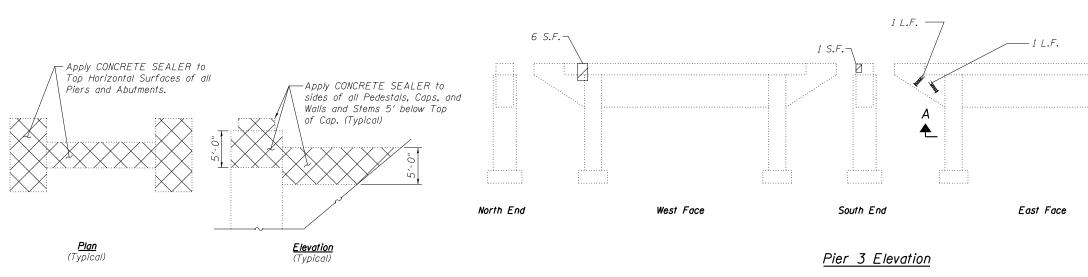
Minimum Bar Lap		
#5 bar = 2′-7" #7 bar = 4′-2"		
#8 bar = 5′-5" #9 bar = 6′-10"	BAR	,
#9 DUI - 8 -10	а ₃₀₀ (Е)	
	а ₃₀₁ (Е)	
, or a ₃₀₄ (E)	а ₃₀₂ (Е)	
n. clr.	а ₃₀₃ (Е)	
	а ₃₀₄ (Е)	
	b ₃₀₀ (Е)	
Const.	Ь ₃₀₁ (Е)	
	ь ₃₀₂ (Е)	
₀₃ (E), or a ₃₀₄ (E)	х ₃₀₀ (Е)	
or 8"		Γ
nall	Concrete	Re
	Concrete	Sι
	Bridge De	ck
	Protective	0
14 Ch + 07 K 110	Reinforce	
vith Sheet 97 of 112 Details, see Sheet 112 of 112	Ероху Сос	ste

									_
יי ייר	BAR	_ ^	10.	SIZE	LENG	TΗ	SH	APE	
)	a 300 (E	5) 4	17	#5	19′-	4"			
	а ₃₀₁ (Е	:) 7	71	#7	19′-	4"			
	a 302 (E		<i>47</i>	#5	29′-	4"			
	а ₃₀₃ (Е	:) 7	71	#7	29'-	4"			
rlay	а ₃₀₄ (Е	5) 3	34	#7	20'-	2"			
									_
	<i>b 300 (Е</i>	D = 1	48	#9	26'-	9"			_
	Ь ₃₀₁ (Е	E) 2	22	#8	19′-	2"			_
	Ь <u>зог</u> (Е	E)	16	#9	25'-	0"			
									_
	× 300 (E	E) 4	19	#4	4'-	7"	_		_
									_
			ΈM		UN.	IT		NTITY	_
	Concret	e Re	movc	1/	Cu.	Yd.	E	52	_
	Concrete	e Su	pers	tructure	Cu.	Yd.	6	51.5	_
	Bridge l	Deck	Gro	oving	Sq.	Yd.	2	276	
	Protecti	ve C	oat		Sq.	Yd.	2	276	
	Reinford Epoxy C			ars,	POL	ind	37	7,190	
of 112	Lpony o		-			(•)	Peori	a / Ta:	zewell
ENT	F	A.P. RTE		SECTION		COU	NTY	TOTAL SHEETS	SHEET NO.
RIVER		669		(103B)I-7			•)	180	166
								NO. 6	8A93



S:<Pr FILE

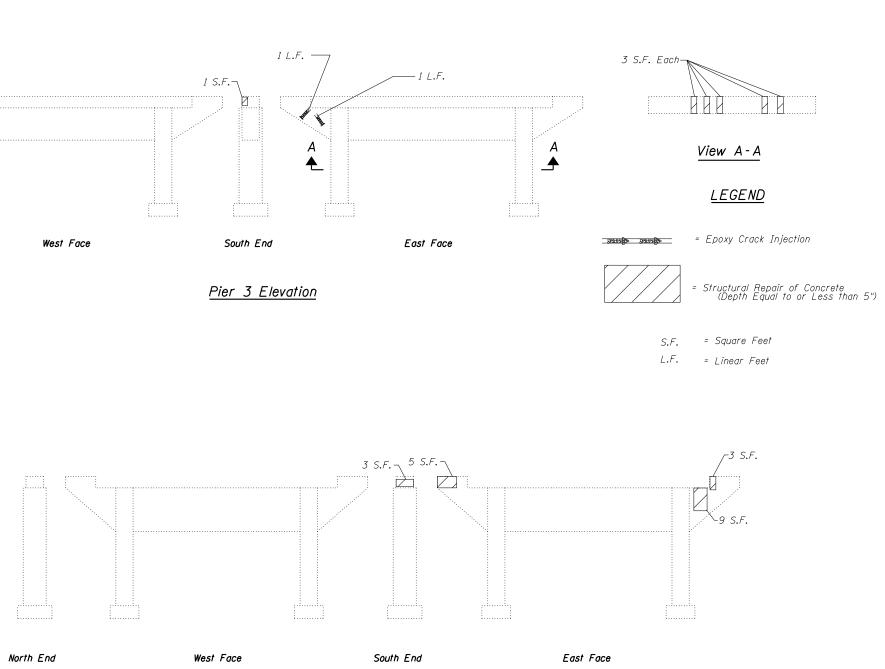
BAR	NO.	SIZE	LENGTH	SHAPE
$h_I(E)$	12	#5	7′-8″	
v1(E)	16	#5	5′-8″	
x ₂ (E)	9	#5	2'-4"	
	ITEM		UNIT	QUANTITY
Concrete	Structu	ires	Cu. Yd.	1.8
Reinforce Epoxy Co		lars,	Pound	220
Placement	of Cer	ment Grout	Cu. Ft.	40



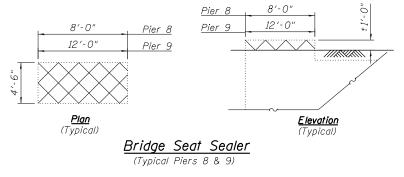
(Typical Abutments, Piers 1-7, & Piers 10-33)

CONCRETE SEALER - SCHEDULE

LOCATION	LENGTH	WIDTH	HORIZ. AREA	PERIMETER	VERT. DIM.	VERT. AREA	TOTAL ARE
LUCATION	(FOOT)	(FOOT)	(SQ FT)	(FOOT)	(FOOT)	(SQ FT)	(SQ FT)
W. ABUT	50.33	1.50	75.50	50.33	5.00	251.67	327
PIER 1	52.50	4.00	210.00	113.00	5.00	565.00	775
PIER 2	52.50	4.00	210.00	113.00	5.00	565.00	775
PIER 3	52.50	4.00	210.00	113.00	5.00	565.00	775
PIER 4	52.50	4.00	210.00	113.00	5.00	565.00	775
PIER 5	52.50	4.00	210.00	113.00	5.00	565.00	775
PIER 6	52.50	4.00	210.00	113.00	5.00	565.00	775
PIER 7	52.67	5.50	289.67	116.33	5.00	581.67	871
PIER 8	8.00	4.50	36.00	25.00	1.00	25.00	61
PIER 8	8.00	4.50	36.00	25.00	1.00	25.00	61
PIER 9	12.00	4.50	54.00	33.00	1.00	33.00	87
PIER 9	12.00	4.50	54.00	33.00	1.00	33.00	87
PIER 10	37.67	3.33	125.55	82.00	5.00	410.00	536
PIER 11	37.67	3.33	170.93	103.67	5.00	518,34	689
PIER 12	39.50	4.22	187.55	103.67	5.00	518.34	706
PIER 13	39.50	4.22	166.50	87.43	5.00	437.15	604
PIER 14	39.50	4.22	166.50	87.43	5.00	437.15	604
PIER 15	39.50	4.22	166.50	87.43	5.00	437.15	604
PIER 16	38.00	3.86	146.50	83.71	5.00	418.55	565
PIER 17	38,00	3.86	146.50	83.71	5.00	418,55	565
PIER 18	38,50	3.73	143.73	84.47	5.00	422.33	566
PIER 19	38.50	3.73	143.73	84.47	5.00	422.33	566
PIER 20	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 21	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 22	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 23	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 24	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 25	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 26	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 27	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 28	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 29	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 30	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 31	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 32	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 33	37.25	2.63	98.00	79.76	5.00	398.81	497
E. ABUT.	56.00	2.25	126.00	56.00	5.00	280.00	406
						TOTAL	19,513
	- . 1	USER NAME =	cstokes	DESIGNED	- DRB	REVISE	D



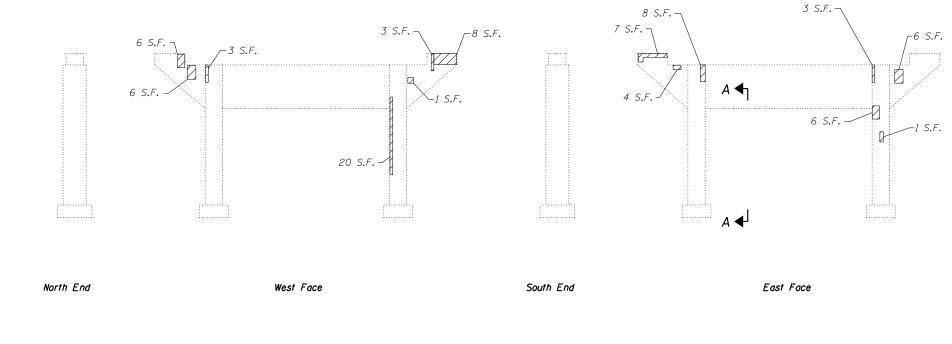
<u>Pier 4 Elevation</u>

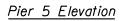


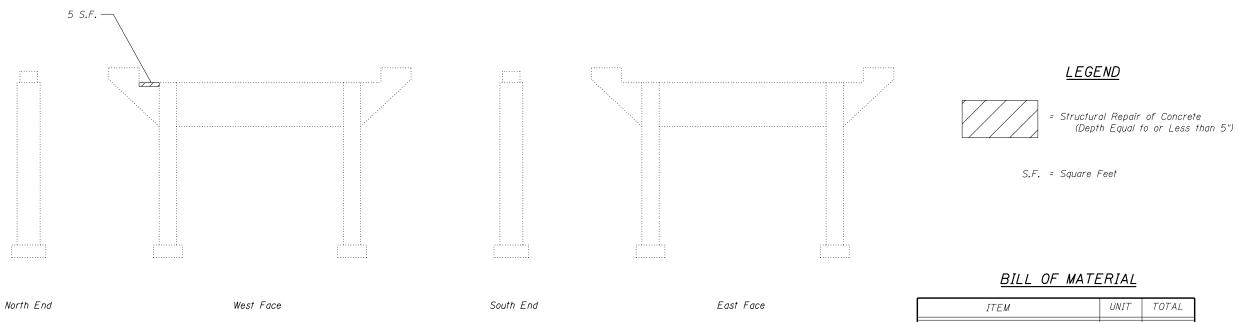
								(•) Peoria / Tazewell
	USER NAME = cstokes	DESIGNED - DRB	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIER 3 & PIER 4 REPAIR DETAILS		SECTION	COUNTY TOTAL SHEET
	0900030-68A93-168-PierRepairs0l.dgn	CHECKED - SDM	REVISED		S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER	669	(103B)I-7	(•) 180 168
	PLOT SCALE = 0.1667 ' / 10.	DRAWN - TRF	REVISED					CONTRACT NO. 68A93
QUIGG ENGINEERING INC	PLOT DATE = 10/05/2015	CHECKED - DRB	REVISED		SHEET NO. 100 OF 112 SHEETS	ILLINOIS FED. AID PROJECT		

<u>BILL OF MATERIAL</u>

ITEM	UNIT	TOTAL
Concrete Sealer	SQ. FT.	19,513
Epoxy Crack Injection	FOOT	2
Structural Repair of Concrete (Depth Equal to or Less than 5")	SQ. FT.	42

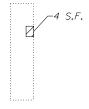






<u>Pier 6 Elevation</u>

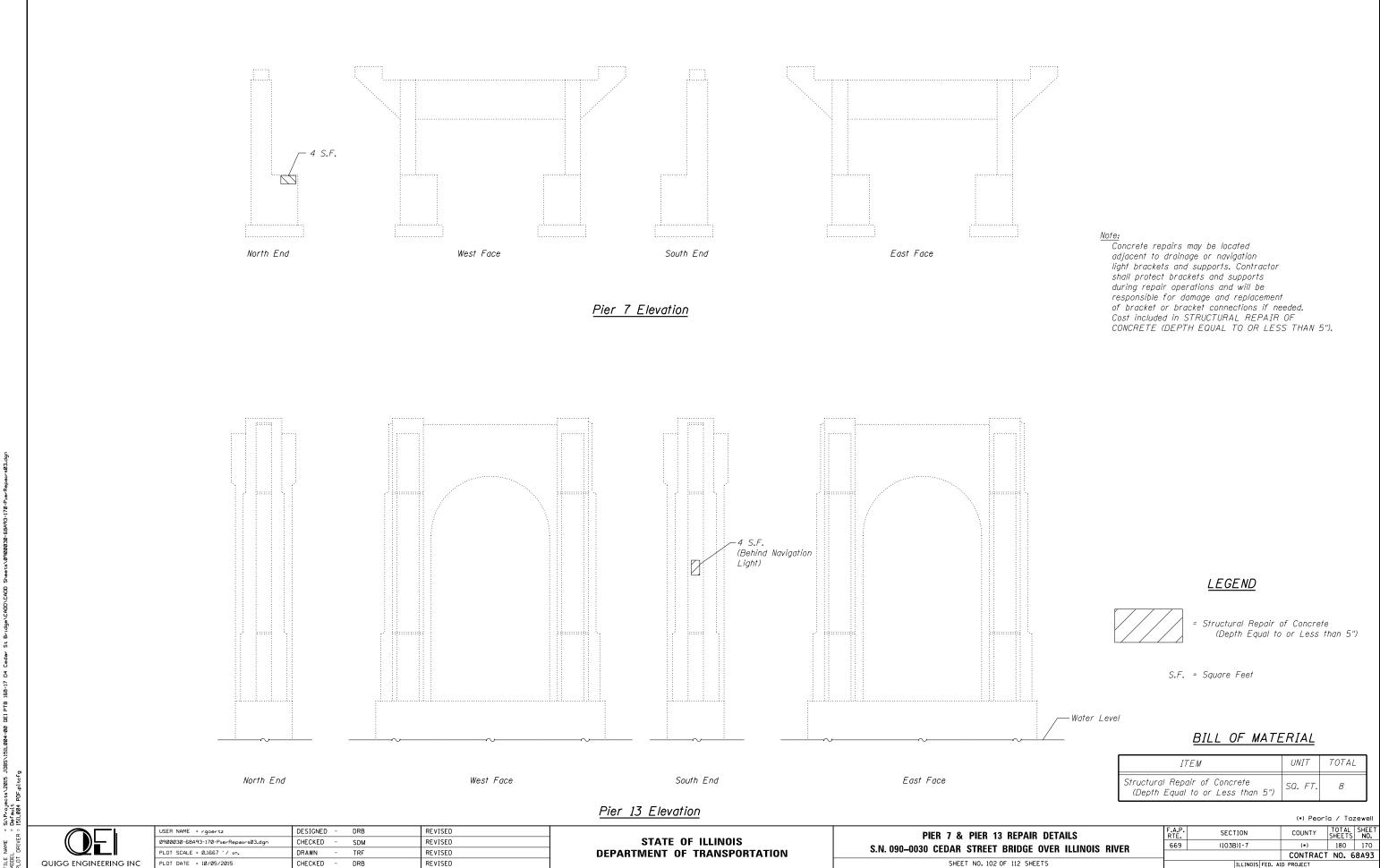
	USER NAME = rgoertz	DESIGNED - DRB	REVISED		PIER 5 & PIER 6 REPA	
	0900030-68A93-169-PierRepairs02.dgn	CHECKED - SDM	REVISED	STATE OF ILLINOIS		
	PLOT SCALE = 0.1667 // 10.	DRAWN - TRF	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 090–0030 CEDAR STREET BRIDGI	
QUIGG ENGINEERING INC	PLOT DATE = 10/05/2015	CHECKED - DRB	REVISED		SHEET NO. 101 OF 112 SHEET NO.	



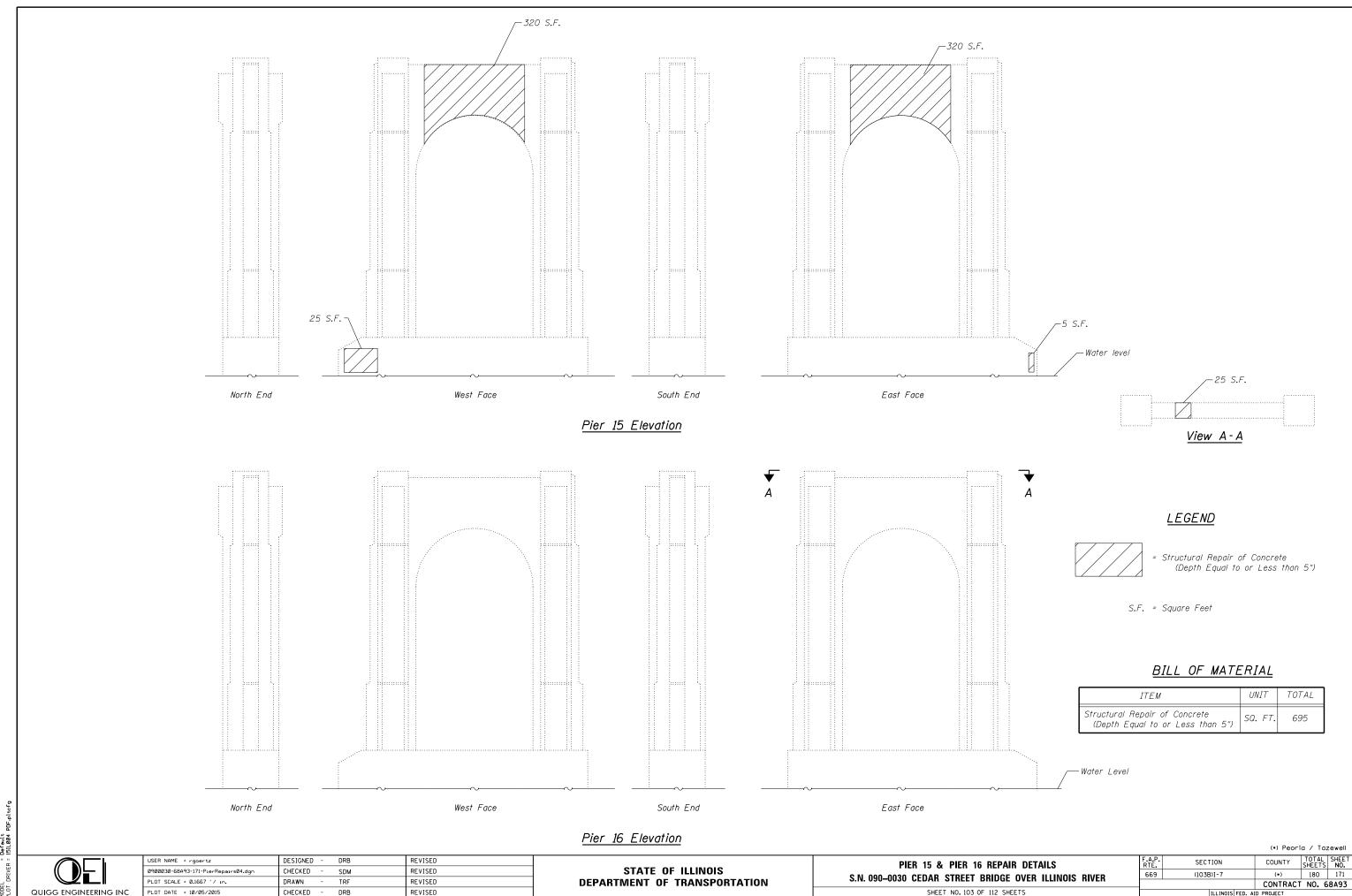
View A-A

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal to or Less than 5")	SQ. FT.	91

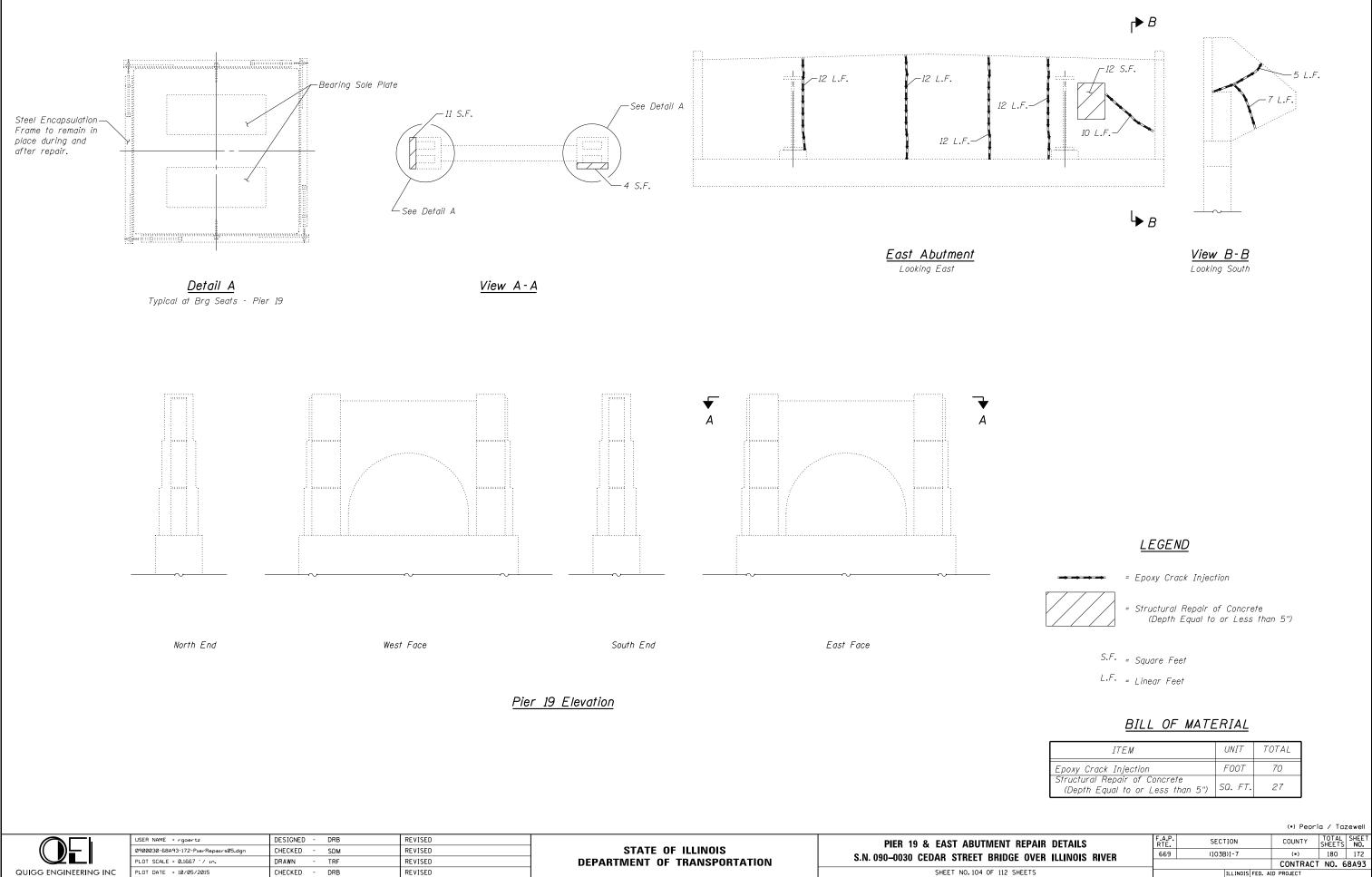
(•) Peoria / Tazewell SECTION COUNTY TOTAL SHEET SHEETS NO. 103B)I-7 (•) 180 169 CONTRACT NO. 68A93 ILLINOIS FED. AID PROJECT F.A.P. RTE. 669 SECTION PAIR DETAILS (103B)I-7 DGE OVER ILLINOIS RIVER 2 SHEETS





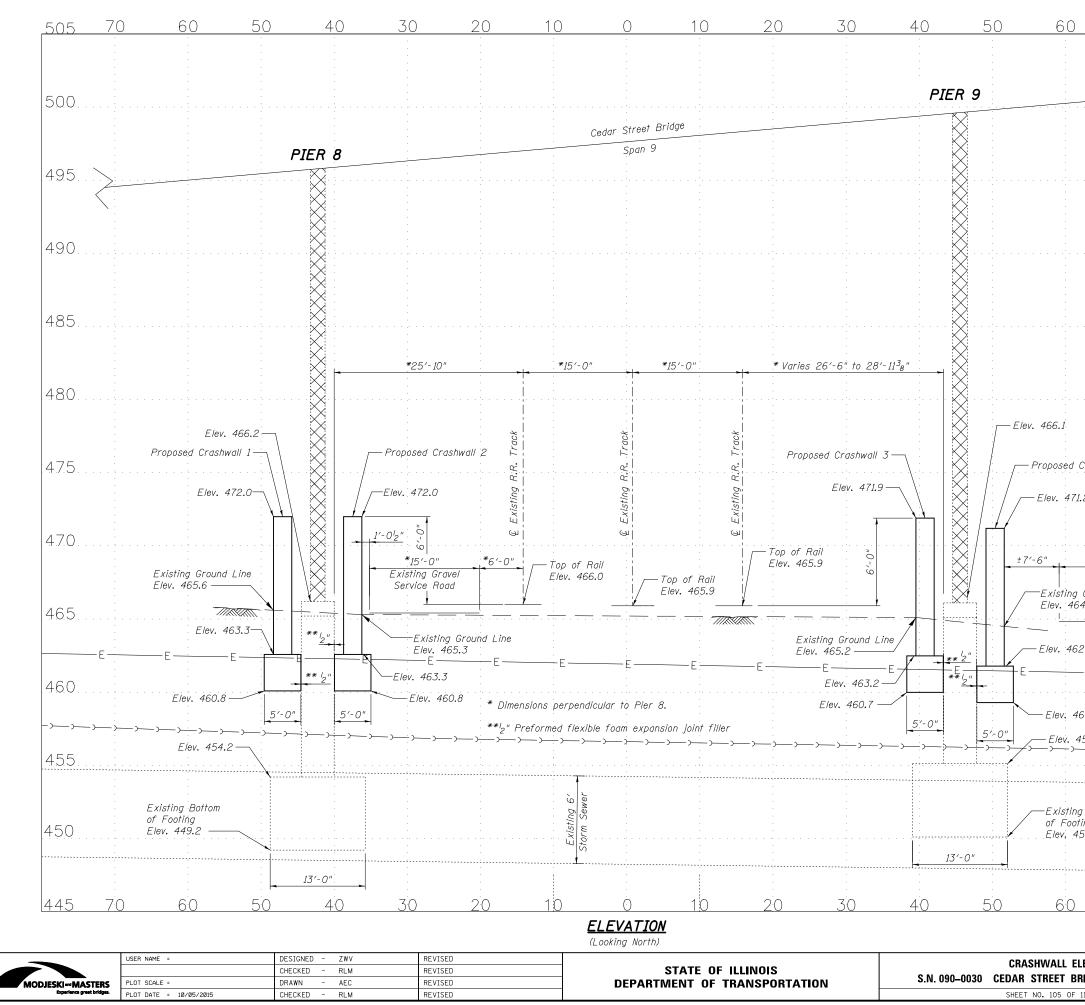


SHEET NO. 103 OF 112 SHEETS



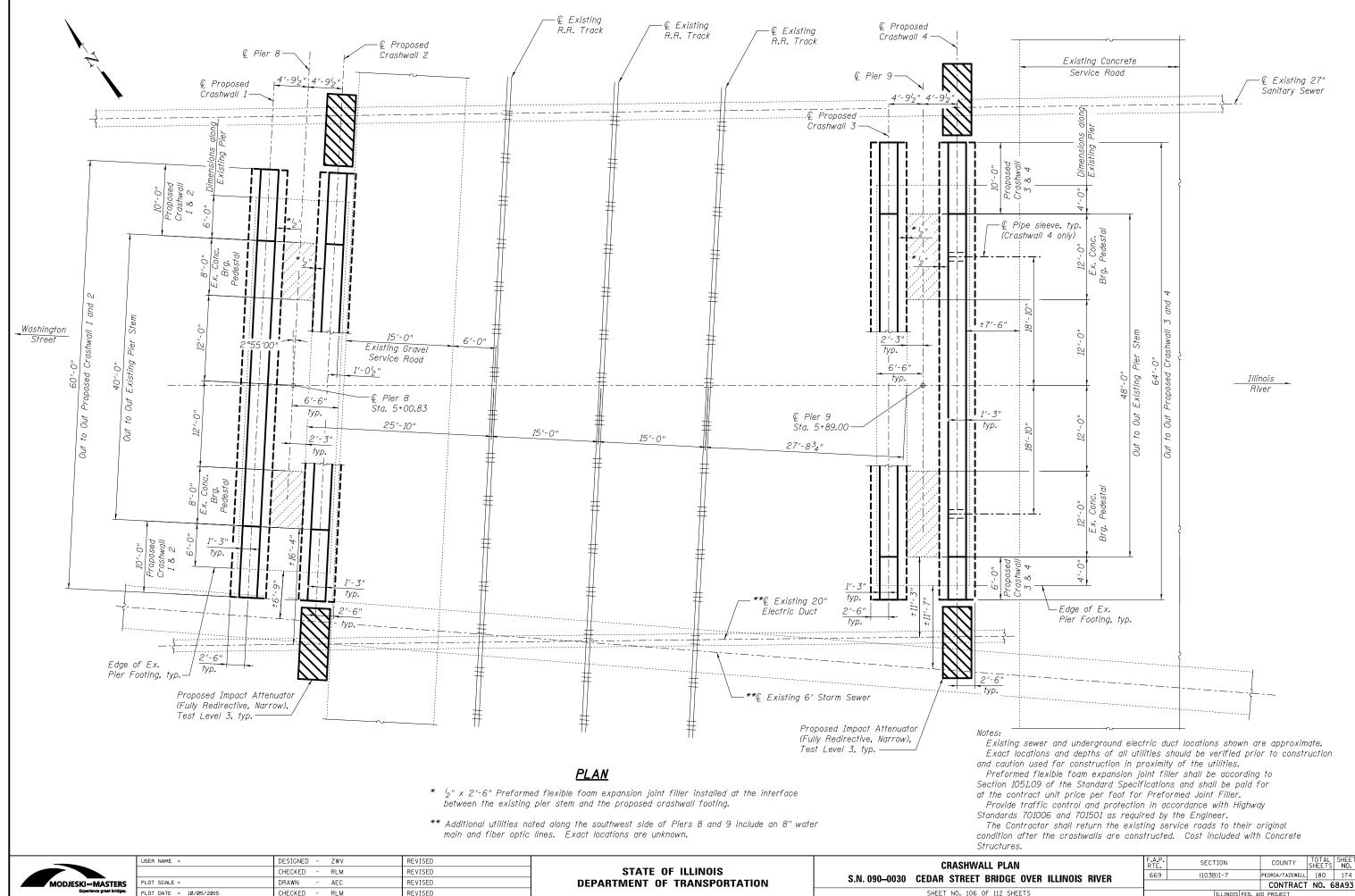
ITEM	UNIT	TOTAL
Epoxy Crack Injection	FOOT	70
Structural Repair of Concrete (Depth Equal to or Less than 5")	SQ. FT.	27

	(•) Feoria / Tazeweii				
NT REPAIR DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDGE OVER ILLINOIS RIVER	669	(103B)I-7	(•)	180	172
IDGE OVEN IEENOIS NIVEN			CONTRACT	NO. 6	8A93
112 SHEETS	ILLINOIS FED. AID PROJECT				

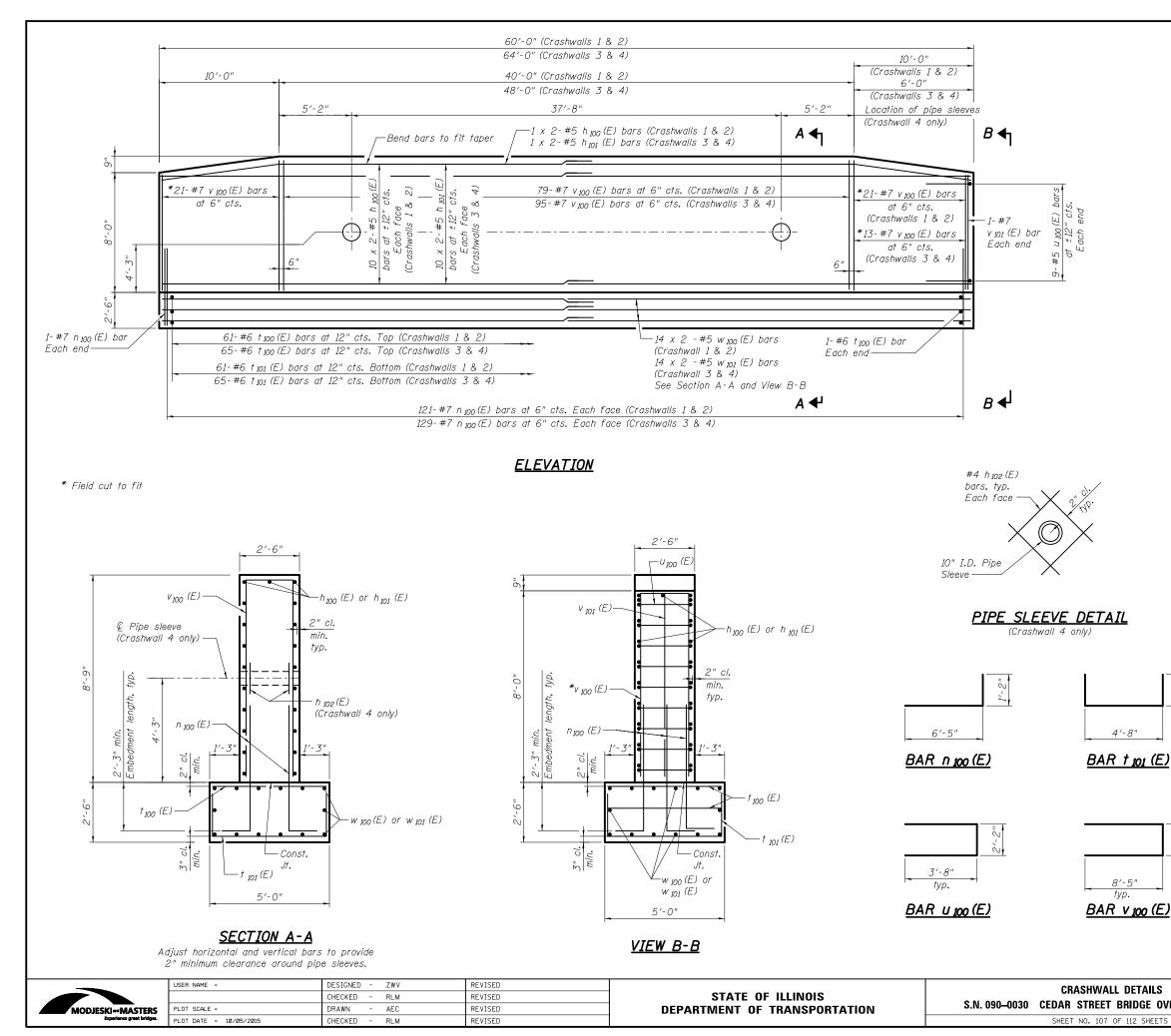


70 505	
5.000. 	
Crashwall 4	
2 Existing Concrete Service Road	
Ground Line 4.5	
-ЕЕЕ	Location of 8" water main and fiber optic lines (southwest) and 27" sanitary sewer (northeast) unknown.
455.1 , , , , , , , , , , , , , , , , , , ,	Notes: Existing storm sewer and underground electric duct locations shown are approximate. Provide traffic control and protection in accordance with Highway Standards 701006
g Bottom ^{Ting} 450	and 701501 as required by the Engineer. Temporary shoring may be required in accordance with Tazewell and Peoria Railroad requirements. The Contractor shall coordinate with the Railroad regarding shoring requirements. Coordination documentation shall be provided to the Engineer. If required, the Contractor shall
70 445	submit temporary shoring design calculations and plan details to the Railroad and the Engineer for review and approval prior to performing the structure excavation. Cost for temporary shoring shall be included with Structure Excavation.

LEVATION	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER		(103B)I-7	PEORIA/TAZEWELL	180	173
MDGE OVEN IEENOIS MIVEN			CONTRACT	NO. 6	8A93
112 SHEETS	ILLINOIS FED. AID PROJECT				



		CONTRACT
OF 112 SHEETS	ILLINOIS FED. AI	ID PROJECT



CRASHWALLS 1 & 2 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₁₀₀ (E)	84	#5	31′-8″	
n ₁₀₀ (E)	488	#7	7′-7″	
† ₁₀₀ (E)	126	#6	4′-8″	
† ₁₀₁ (E)	122	#6	8′-10″	
(5)	70		04.04	
и ₁₀₀ (Е)	36	#5	9′-6″	
v ₁₀₀ (E)	242	#7	18′-10″	
v ₁₀₁ (E)	4	#7	7'-8"	
w ₁₀₀ (E)	56	#5	31′-8″	
Structu	re Exco	avation	Cu. Yd.	172
Concret	'e Struc	tures	Cu. Yd.	154.2
Reinfor	cement	Bars,	Pound	24.430
Ероху	Coated		1 ound	24,430
· /	Attenua			
	Redirecti		Each	2
Narrow)), Test	Level 3		
Preform	ned Join	t Filler	Foot	80

CRASHWALLS 3 & 4 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₁₀₁ (E)	84	#5	33′-8″	
h ₁₀₂ (E)	16	#4	2'-0"	
n ₁₀₀ (E)	520	#7	7′-7″	
† ₁₀₀ (E)	134	#6	4'-8"	
t ₁₀₁ (E)	130	#6	8′-10″	
u ₁₀₀ (E)	36	#5	9′-6″	
v ₁₀₀ (E)	258	#7	18′-10″	
v ₁₀₁ (E)	4	#7	7′-8″	
w ₁₀₁ (E)	56	#5	33′-8″	
Structu Concret	re Exco e Struc		Cu. Yd. Cu. Yd.	173 161.8
Reinforcement Bars, Epoxy Coated			Pound	26,020
Impact Attenuators (Fully Redirective, Narrow), Test Level 3			Each	2
Preform	ned Join	t Filler	Foot	96



MINIMUM BAR LAP

#5 bar = 3'-8"



Notes:

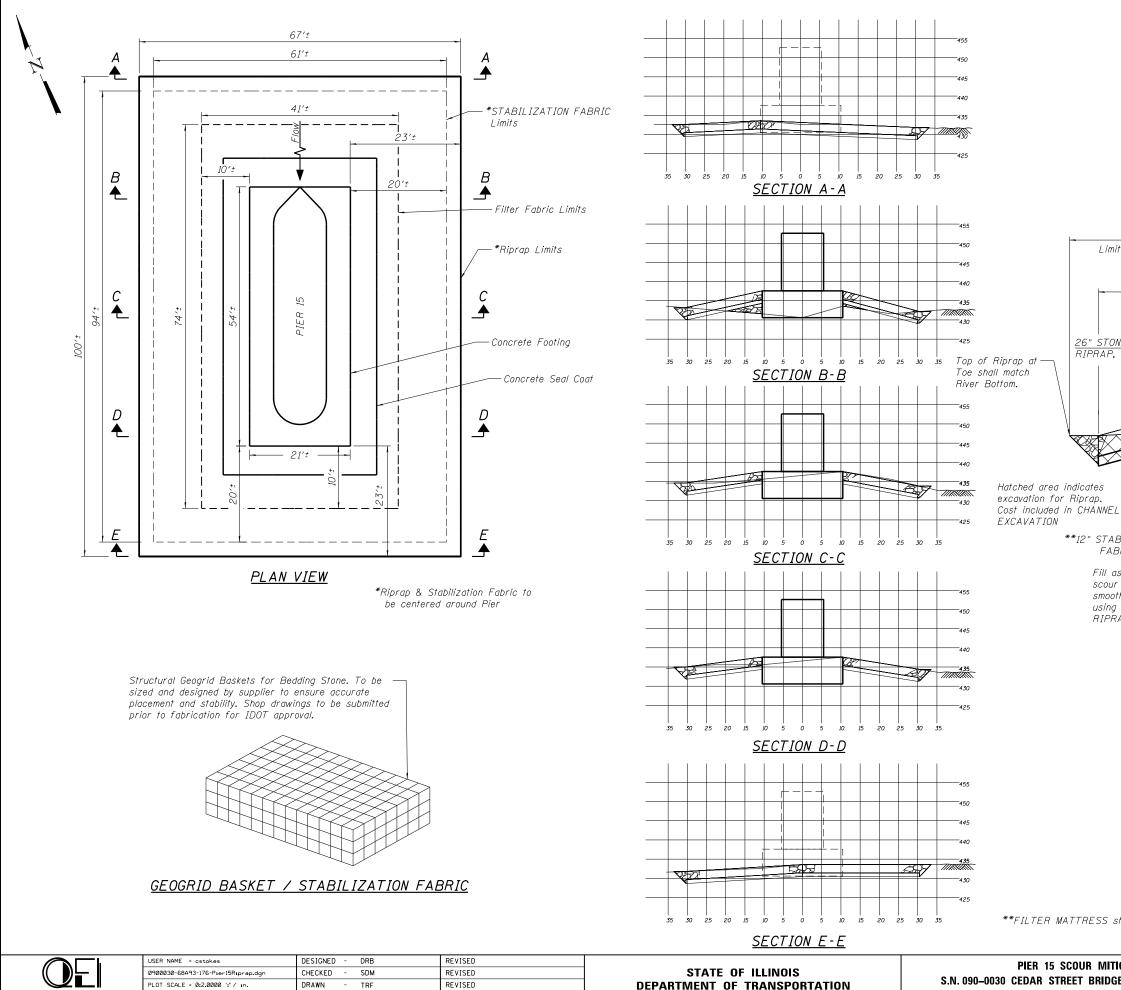
Bars indicated thus 10x2-#5 etc. indicates 10 lines of bars with 2 lengths per line.

Contractor may combine v 100 (E) bars or v 101 (E) bars with n₁₀₀ (E) bars to eliminate lap. Combined bars shall be fabricated to accommodate end taper.

Install pipe sleeves at Crashwall 4 to accommodate drainage system repairs in Span 9. See Sheet 109 of 112 for drainage system details.

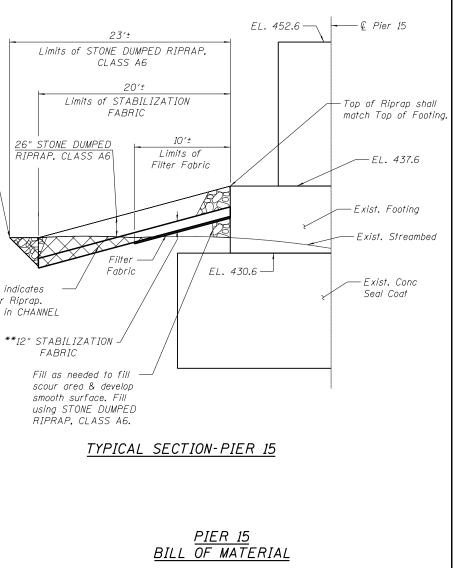
The pipe sleeve shall be reinforced fiberglass according to ASTM D 2996 RTRP. Cost included with Concrete Structures.

DETAILS	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7	PEORIA/TAZEWELL	180	175
			CONTRACT	NO. 6	8A93
112 SHEETS	ILLINOIS FED. AID PROJECT				



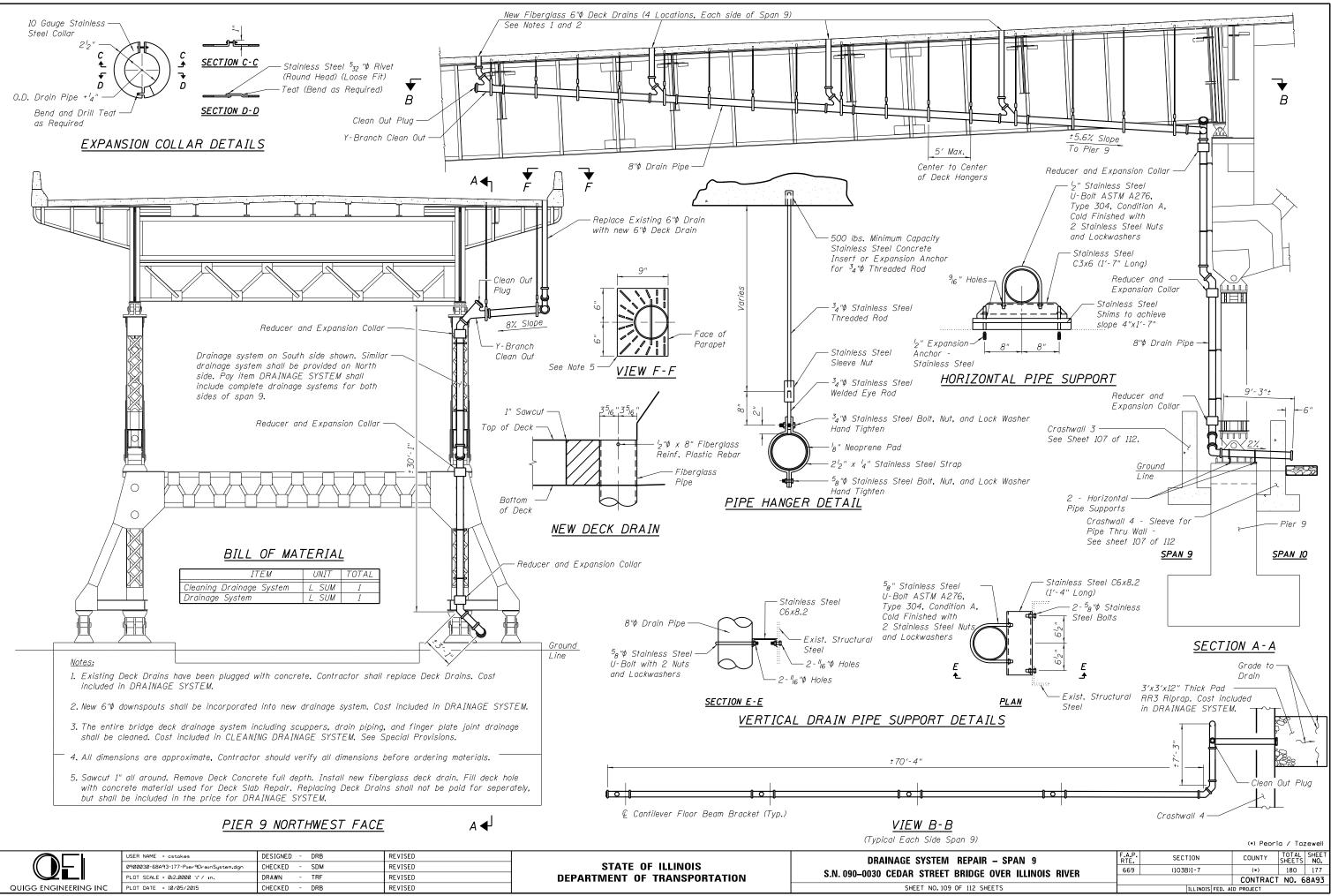
QUIGG ENGINEERING INC

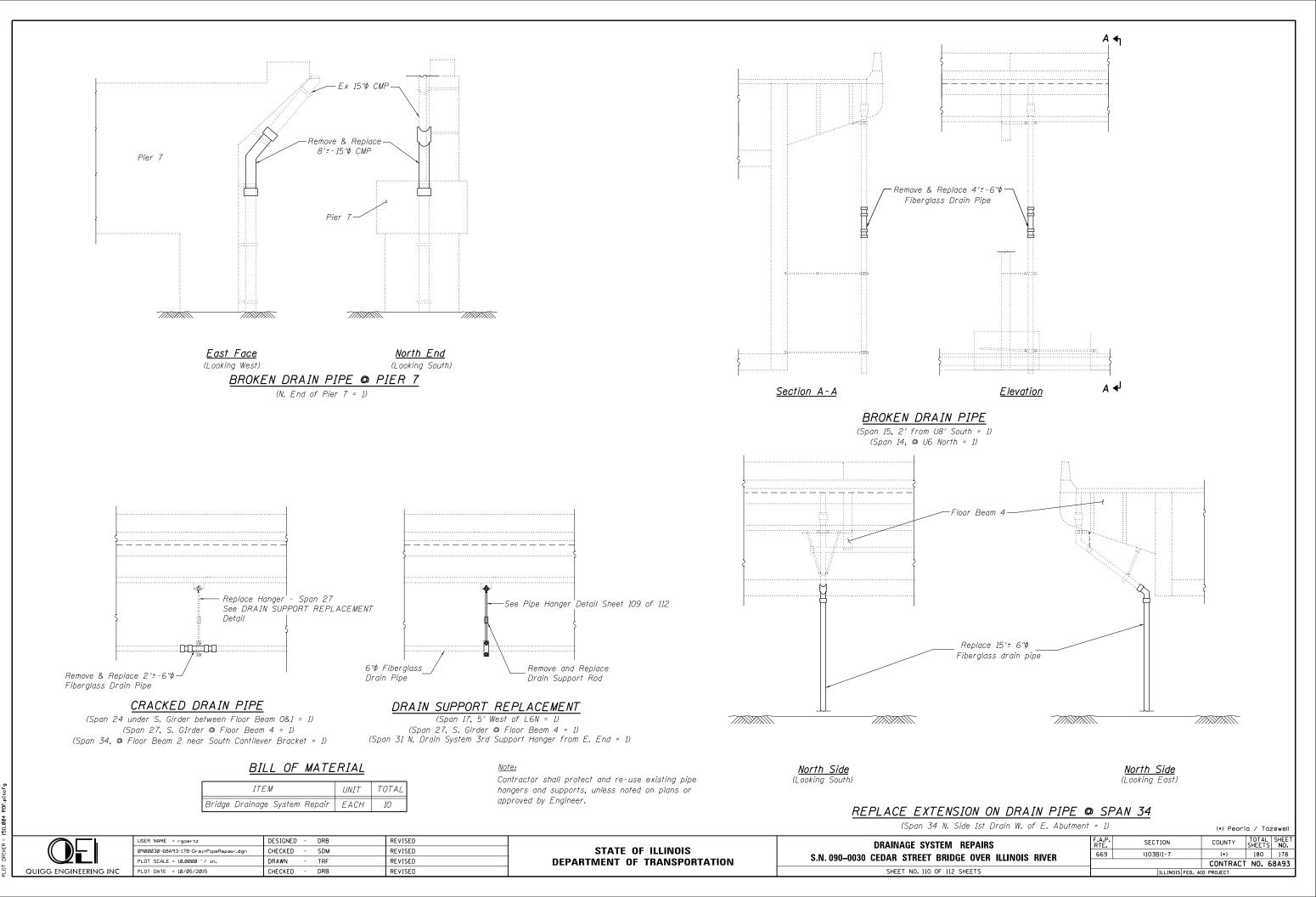
USER NAME = cstokes DESIGNED - DRB REVISED REVISED REVISED COUNTY TOTAL SHEET SHEET SECTION COUNTY TOTAL SHEET SHEET NO. 0900030-68493-176-Pier/sDrip-op.dgn CHECKED - SDM REVISED REVISED COUNTY TOTAL SHEET SHEET SHEET NO. SHEET SHEET <th colspan="8"><u>SECTION E-E</u> (•) Peoria / Tazewell</th> <th>ía / Tazewell</th>	<u>SECTION E-E</u> (•) Peoria / Tazewell								ía / Tazewell
09/00/20-68493-1/20-Prior (5Ripprop.dgn CHECKED - SDM REVISED 669 (103B)1-7 (•) 180 176 PLOT SCALE = 0:2.0000 :/ / In. DRAWN - TRF REVISED DEPARTMENT OF TRANSPORTATION S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER 669 (103B)1-7 (•) 180 176	USER NAME = cstokes	DESIGNED - DRB	REVISED		PIER 15 SCOUR MITIGATION	F.A.P.	SECTION	COUNTY	TOTAL SHEET
PLOT SCALE = 02,0000 :// ID. DRAWN - TRF REVISED DEPARTMENT OF TRANSPORTATION CONTRACT NO. 68A93	0900030-68A93-176-Pier15Riprap.dgn	CHECKED - SDM	REVISED	STATE OF ILLINOIS		669	(103B)I-7	(•)	
PLOT DATE = 10/05/2015 CHECKED - DRB REVISED	PLOT SCALE = 0:2.0000 ':' / in.	DRAWN - TRF	REVISED	DEPARTMENT OF TRANSPORTATION	5.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINUIS RIVER			CONTRACT	
	PLOT DATE = 10/05/2015	CHECKED - DRB	REVISED		SHEET NO. 108 OF 112 SHEETS		ILLINOIS FED. 4	ID PROJECT	

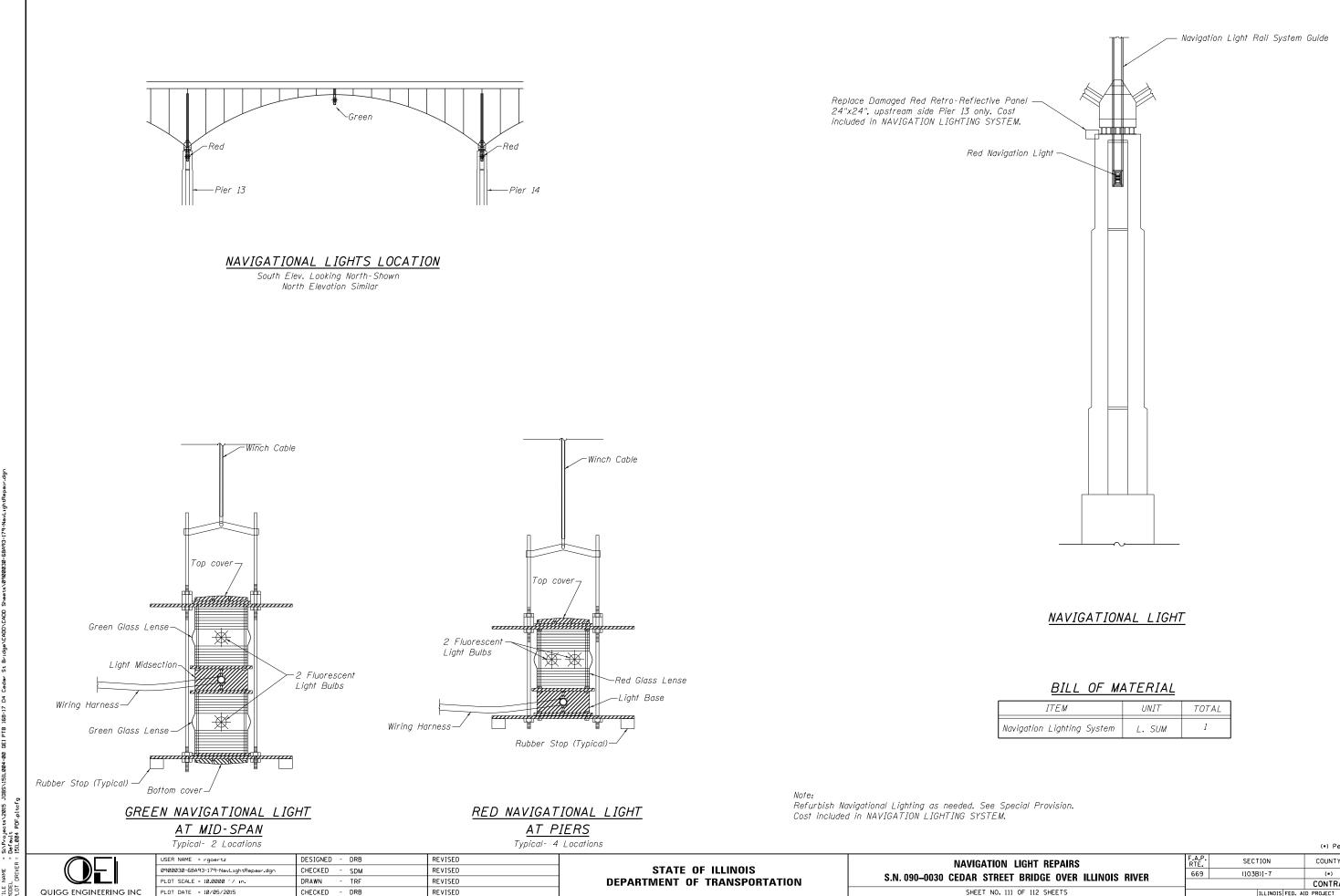


Item	Unit	Quantity
Channel Excavation	CU YD	439
Stone Dumped Riprap,		
Class A6	TON	835
Stabilization Fabric	TON	511

**FILTER MATTRESS shall be in accordance with the Special Provision for STABILIZATION FABRIC.



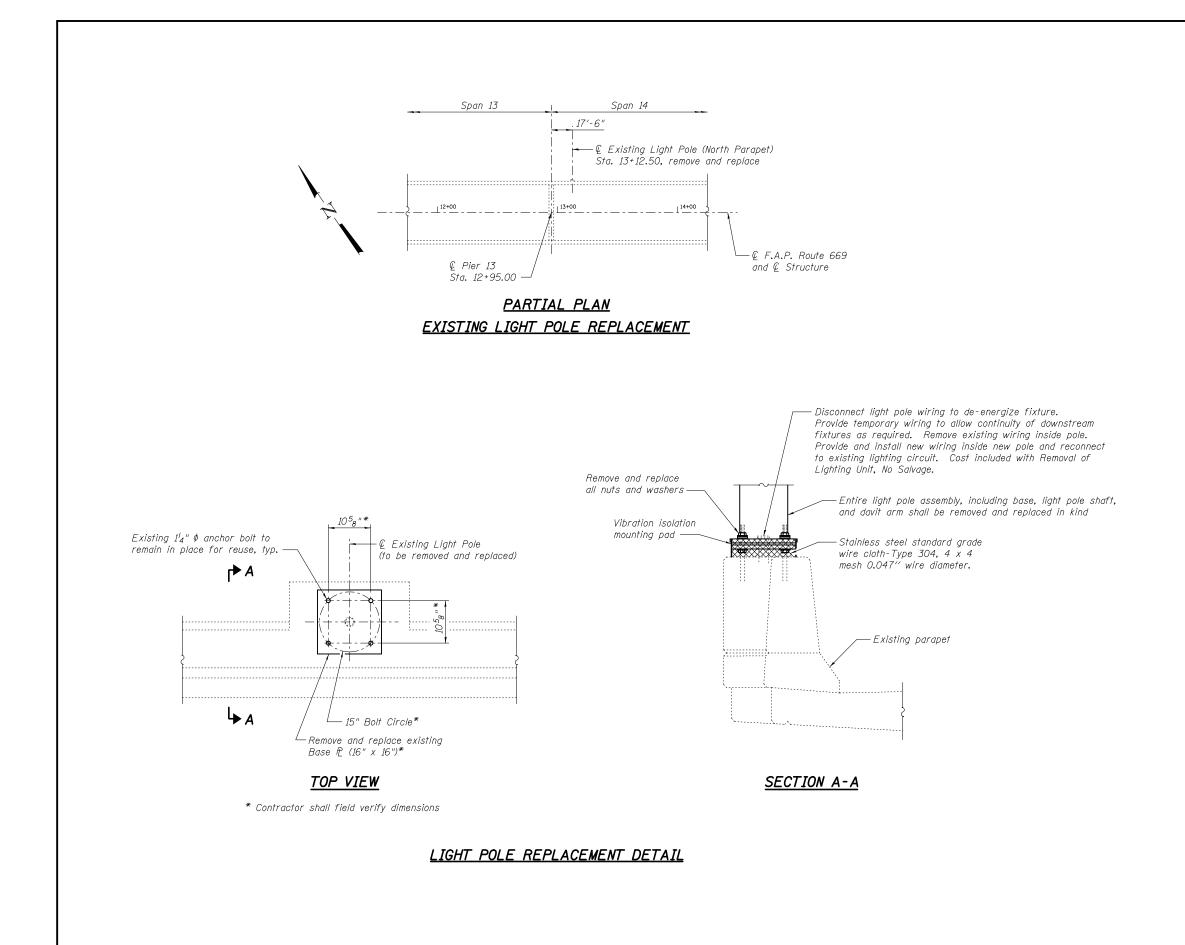




ITEM	UNIT	TOTAL
ion Lighting System	L. SUM	1

(•) Peoria / Tazewell

				(•) Feori	u / 1uz	ewen
T REPAIRS	F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
IDGE OVER ILLINOIS RIVER	669	(103B)I-7		(•)	180	179
				CONTRACT	NO. 6	8A93
112 SHEETS		ILLINOIS	FED. AI	D PROJECT		



MODJESKI-«MASTERS	USER NAME = PLOT SCALE =	DESIGNED - KMG CHECKED - JGS DRAWN - PRC	REVISED REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHT POLE REPLACEMEN S.N. 090–0030 CEDAR STREET BRIDGE
Experience great bridges.	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED		SHEET NO. 111A OF 112 SH

Notes:

Existing luminaire shall be removed and replaced with a new LED luminaire. See Sheets L1 to L7 for more details.

Pole lower shaft and base shall be sized according to 45 foot mounting height requirements. Contractor shall verify mounting height in field.

New light pole assembly shall be in accordance with IDOT Highway Standard No. 830006-03 Light Pole Aluminum Davit Arm and Section 830 of the Standard Specifications.

Apply ASTM A780 (galvanized finish) approved paint to exposed surface of corroded existing anchor bolts.

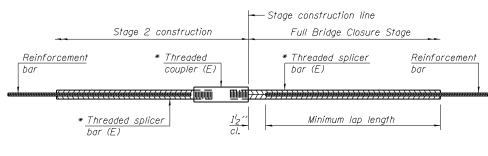
Remove and store existing roadway signs attached to pole and reinstall on new light pole.

Work on this sheet to be completed in coordination with lighting repairs shown on Sheets L1 to L7.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Light Pole, Aluminum, 45 Ft. M.H., 6 Ft. Davit Arm	Each	1
Removal of Lighting Unit, No Salvage	Each	1

MENT DETAILS	F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
RIDGE OVER ILLINOIS RIVER	669	(103B)I-7		PEORIA/TAZEWELL	180	179A
				CONTRACT	NO. 6	8A93
112 SHEETS		ILLINOIS	FED. AI	D PROJECT		

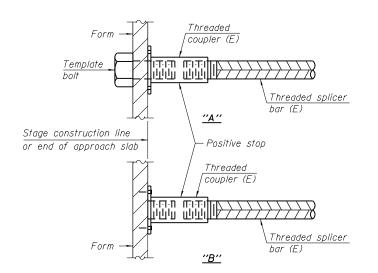


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + $1_2^{\prime\prime}$ + thread length

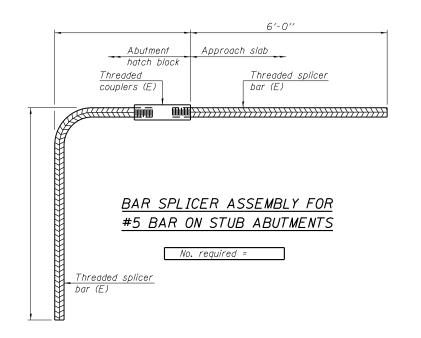
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar	No. assemblies	Minimum
LOCUIION	size	required	lap length
W. Abut Slab	#5	47	3′-6″
W. Abut Slab	#7	71	4 '- 11"
Slab at West Abutment	#5	4	3′-6″
Slab at Pier 2	#5	8	3′-6″
Slab at Pier 4	#5	8	3′-6″
Slab at Pier 5	#5	8	3′-6″
Slab at Pier 8	#5	4	3′-6″
Slab at Pier 9	#5	4	3′-6″
Slab at Pier 10	#5	4	3'-6"
Slab at Pier 11	#5	4	3′-6″
Slab at Pier 12	#5	4	3′-6″
Slab at Midspan 14	#5	18	3′-6″
Slab at Pier 15	#5	4	3′-6″
Slab at Pier 16	#5	4	3′-6″
Slab at Pier 17	#5	4	3′-6″
Slab at Pier 19	#5	4	3'-6"
Slab at Pier 20	#5	4	3′-6″
Slab at Pier 22	#5	4	3′-6″
Slab at Pier 24	#5	4	3′-6″
Slab at Pier 26	#5	4	3′-6″
Slab at Pier 27	#5	4	3′-6″
Slab at Pier 29	#5	4	3′-6″
Slab at Pier 31	#5	4	3′-6″
Slab at Pier 33	#5	4	3′-6″
Slab at East Abutment	#5	4	3′-6″
	Total	236	



INSTALLATION AND SETTING METHODS

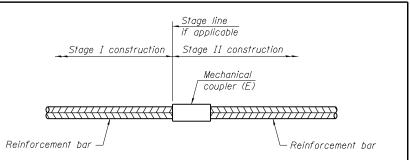
"A" : Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E) : Indicates epoxy coating.



6-8-15

BSD-1

-	O E	USER NAME = rgcertz 0900030-68A93-180-BerSpliceDet.dgn PLDT SCALE = 0:2.0000 't' / in.	DESIGNED - DRB CHECKED - SDM DRAWN - TRF	REVISED REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BAR SPLICER DETAILS (B S.N. 090–0030 CEDAR STREET BRIDG
l	QUIGG ENGINEERING INC	PLOT DATE = 10/05/2015	CHECKED - DRB	REVISED		SHEET NO. 112 OF 112 SH



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

<u>NOTES</u>

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications. See approved list of bar splicer assemblies and mechanical splicers for alternatives.

 (*) Peoria / Tazewell

 S (BASE SHEET)

 IDGE OVER ILLINOIS RIVER

 12 SHEETS

GENERAL NOTES:

- LEVELING PLATES FOR BRIDGE MOUNTED LIGHT POLES SHALL BE ACCORDING TO THE PLANS AND SHALL BE GALVANIZED STEEL. 1. IF ANCHOR BOLTS ARE TOO SHORT TO ACCOMMODATE LEVELING PLATES AND ISOLATION PADS THEN REINSTALL POLES ON AN ANCHOR BASE AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
- ONCE POLES ARE REMOVED. THE GROUT SHALL BE REMOVED FROM ANCHOR BOLTS. BOLTS SHALL BE CLEANED, WIRE BRUSHED, 2. AND PAINTED WITH GALVANOX. REINSTALLED POLES SHALL NOT BE GROUTED AND THE OPENING SHALL BE SEALED WITH STAINERSS STEEL SCREEN OR PERFORATED ALLMINUM SCREEN.
- ANCHOR BOLTS FOUND TO BE BADLY CORRODED SHALL BE CUT OFF AND REPLACED AS DIRECTED BY THE ENGINEER. CONCRETE 3. SHALL BE REMOVED TO SUFFICIENT DEPTH TO ALLOW COUPLING NUTS TO BE FULLY ENCASED IN NEW CONCRETE WITH A 3 INCH MINIMUM COVER. COUPLING NUTS, BOLT EXTENSIONS, AND NEW CONCRETE SHALL BE ADDED. THIS WORK SHALL BE PAID FOR BY AN AGREED UNIT PRICE FOR REPLACEMENT OF CORRODED ANCHOR BOLTS.
- 4. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING LUMINAIRES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE EPA REGULATIONS.
- 5. THE CONTRACTOR SHALL DISCONNECT THE EXISTING ELECTRIC CABLE FROM LIGHT POLES AND REMOVE IT FROM THE CONDUIT ATTACHED TO OR EMBEDDED IN STRUCTURE BEFORE THE REMOVAL OF CONCRETE STRUCTURE. INSTALL TEMPORARY WIRING AS NEEDED TO KEEP THE ROADWAY LIGHTING SYSTEM OPERATIONAL DURING THE REPAIR AND REPLACEMENT OF THE PARAPET WALL SECTIONS. INSTALL NEW CONDUIT AS NEEDED AND SPLICE IT TO EXISTING CONDUIT IN A MANNER APPROVED BY THE ENGINEER. AFTER THE PARAPET WALL HAS BEEN REPLACED, THE CONTRACTOR SHALL REINSTALL THE CABLE, RECONNECT THE LIGHT POLES, AND PERFORM ALL WORK REQUIRED TO MAKE THE ROADWAY LIGHTING SYSTEM OPERATIONAL. ANY DAMAGE CAUSED BY THE REMOVAL AND REINSTALLATION OF THE CONDUCTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER OR NEW CONDUCTOR SHALL BE INSTALLED AT THE CONTRACTOR'S EXPENSE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE OF THE "RELOCATE EXISTING LIGHTING UNIT" PAY ITEM.
- THE CONTRACTOR SHALL TAKE INSULATION RESISTANCE MEASUREMENTS OF THE EXISTING ROADWAY LIGHTING CIRCUITS BEFORE б. ANY MODIFICATIONS ARE MADE AND PROVIDE WRITTEN RESULTS TO THE ENGINEER. EXISTING CIRCUITS NOT TESTED AND PROPERLY DOCUMENTED SHALL BE SUBJECT TO THE INSULATION RESISTANCE REQUIREMENTS OF ARTICLE 801.13. AFTER THE PROPOSED ROADWAY LUMINAIRES ARE INSTALLED AND ALL NEEDED MODIFICATIONS ARE MADE, THE CONTRACTOR SHALL TAKE INSULATION RESISTANCE MEASUREMENTS ACCORDING TO ARTICLE 801.13 AND PROVIDE WRITTEN RESULTS TO THE ENGINEER. IF THE TEST RESULTS DO NOT MEET OR EXCEED THE ORIGINAL READINGS, THE CONTACTOR SHALL PROVIDE ALL MATERIALS AND LABOR REQUIRED TO BRING THE CIRCUITS BACK UP TO THAT LEVEL AT HIS OWN EXPENSE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE "RELOCATE EXISTING LIGHTING UNIT" PAY ITEM.
- THE CONTRACTOR SHALL NOTIFY THE UNITED STATES COAST GUARD SECTOR UPPER MISSISSIPPI RIVER TWO WEEKS PRIOR TO ANY 7. PLANNED NAVIGATION LIGHTING OUTAGE.
- 8. PROPOSED NAVIGATION OBSTRUCTION WARNING LUMINAIRE LOCATIONS ARE BASED ON THE AS-BUILT PLANS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS IN THE FIELD.
- 9. EXISTING NAVIGATION OBSTRUCTION WARNING LUMINAIRES AT THE LOCATIONS SHOWN ON THE AS-BUILT PLANS SHALL BE REMOVED AND REPLACED. SEE NAVIGATION LIGHTING SYSTEM SPECIAL PROVISION FOR MORE INFORMATION.
- 10. THE CONTRACTOR'S CONSTRUCTION SEQUENCING SHALL MINIMIZE OUTAGE DURATION OF THE EXISTING NAVIGATION LIGHTING. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CABLE AND TEMPORARY NAVIGATION LIGHTS AS NEEDED TO KEEP THE NAVIGATIONAL LIGHTING SYSTEM OPERATIONAL DURING THE REPAIR AND REPLACEMENT OF THE PARAPET WALL SECTIONS. AFTER THE PARAPET WALL HAS BEEN REPLACED, THE CONTRACTOR SHALL REINSTALL THE CABLE, RECONNECT THE LUMINAIRES, AND PERFORM ALL WORK REQUIRED TO MAKE THE NAVIGATIONAL LIGHTING SYSTEM OPERATIONAL. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE OF THE "NAVIGATION LIGHTING SYSTEM" PAY ITEM.
- 11. THE CONTRACTOR SHALL TAKE INSULATION RESISTANCE MEASUREMENTS OF THE EXISTING NAVIGATION LIGHTING CIRCUITS BEFORE ANY MODIFICATIONS ARE MADE AND PROVIDE WRITTEN RESULTS TO THE ENGINEER. EXISTING CIRCUITS NOT TESTED AND PROPERLY DOCUMENTED SHALL BE SUBJECT TO THE INSULATION RESISTANCE REQUIREMENTS OF ARTICLE 801.13. AFTER THE PROPOSED NAVIGATION LUMINAIRES ARE INSTALLED AND ALL NEEDED MODIFICATIONS ARE MADE. THE CONTRACTOR SHALL TAKE INSULATION RESISTANCE MEASUREMENTS ACCORDING TO ARTICLE BOLI3 AND PROVIDE WRITTEN RESULTS TO THE ENGINEER. IF THE TEST RESULTS DO NOT MEET OR EXCEED THE ORIGINAL READINGS, THE CONTACTOR SHALL PROVIDE ALL MATERIALS AND LABOR REQUIRED TO BRING THE CIRCUITS BACK UP TO THAT LEVEL AT HIS OWN EXPENSE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE "NAVIGATION LIGHTING SYSTEM" PAY ITEM.
- 12. THE COST OF REMOVAL AND REPLACEMENT OF LIGHT POLE FOUNDATIONS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR "CONCRETE SUPERSTRUCTURE".

SCHEDULE	OF	QUAN	Ņ
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ITEM DESCRIPTION

CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC LUMINAIRE, LED, HORIZONTAL MOUNT, MEDIUM WATTAG RELOCATE EXISTING LIGHTING UNIT NAVIGATION LIGHTING SYSTEM

LEGEND

oO _{rl}	EXISTING LIGHTING UNIT TO BE (REPLACE LUMINAIRE ON REINST
o	EXISTING LICHTING UNIT TO RE
Q	PROPOSED NAVAGATIONAL OBSTI 360 DEGREE GREEN CENTER CHA
Ì	PROPOSED NAVAGATIONAL OBST 180 DEGREE RED CHANNEL MARG
0	EXISTING JUNCTION BOX ATTACH

INDEX OF SHEETS

11	GENERAL NOTES, SCHE
L2	PROPOSED LIGHTING PI
13-16	DETAIL DRAWINGS
17	WIRING DIAGRAM AND I

FILE NAME =	USER NAME = howalder	DESIGNED -	REVISED		GENERAL NOTES. SCHEDULE, AND INDEX OF SHEETS	F.A.P. SECTION COUNTY TOTAL SHEET RTE. SHEETS NO.
CI\Users\HOWALDER\Desktop\D468A93Cedors	treetBridgeLightingDassignPackaga- 12-81-2015		AGEVISED -	STATE OF ILLINOIS	CEDAR STREET BRIDGE LIGHTING	669 (1038)1-7 PEORIA-TAZEWELL 180 180A
Defouit	PLOT SCALE + 188,8808 ' / in.	DATE -	REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE: N.T.S SHEET _1 OF 1 SHEETS STA TO STA	CONTRACT NO. 68A93

TITIES - LIGHTING					
	UNIT	TOTAL QTY.			
	FOOT	420.0			
E	EACH	17.0			
	EACH	4.0			
	L SUM	1.0			

REMOVED AND REINSTALLED ALLED POLES

MAIN (REPLACE LUMINAIRE ON EXISTING POLE)

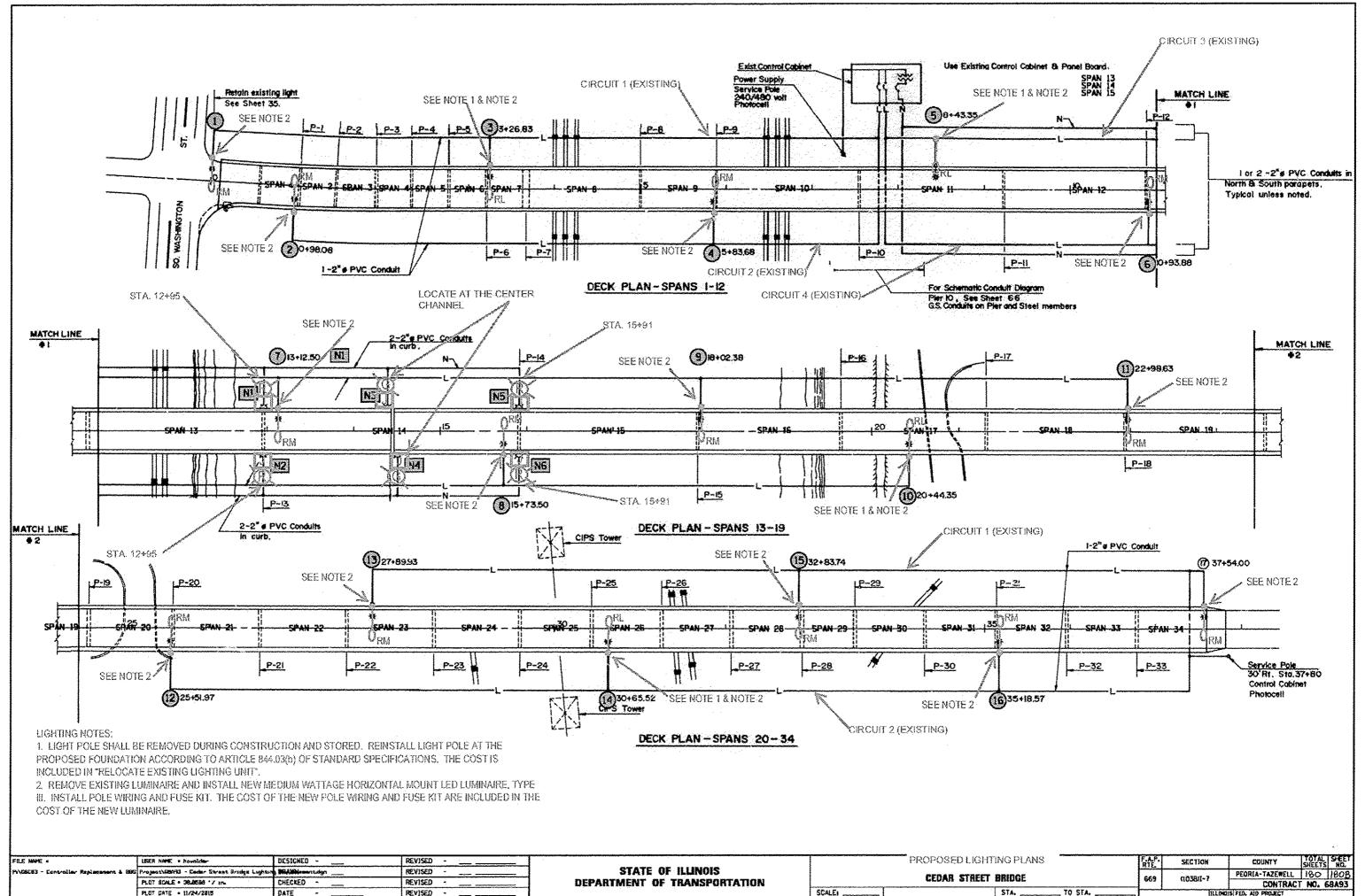
RUCTION WARNING LUMINAIRE, ANNEL, LED

RUCTION WARNING LUMINAIRE, SIN. LED

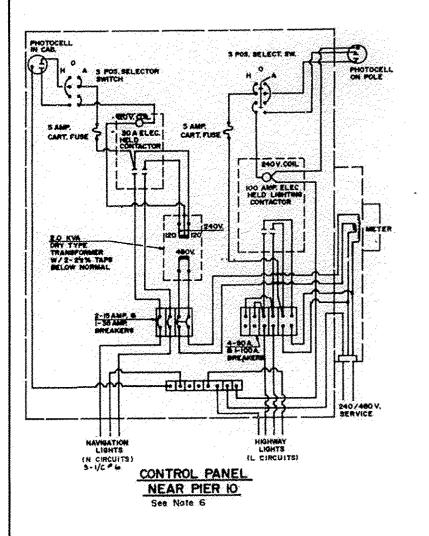
HED TO STRUCTURE

DULES AND INDEX OF SHEETS LANS

LUMINAIRE PERFORMANCE TABLE

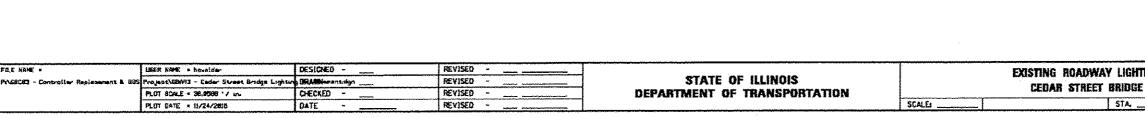


NG PLANS	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
BRIDGE	669	(1038)1-7	PEORIA-TAZEWELL	180	180B
	002	1000/1-1	CONTRACT	NO. 6	8493
STA TO STA		ILLING	S FED, AID PROJECT		



HIGHWAY LIGHTING	
BILL OF MATERIAL (See S	heet 64 of 70)
	and the second

L	ITEM	UNIT	QUANTIT
Γ	Electrical Cable in Conduit, 600 V (XLP-Type USE)		
l	17C NO. 12	Lin.FA	1734
l	ELCEL C GOOV (XLP) 1/C NO.6	Lin,Ft.	13,58
	Bare Copper Wire, 1/C NO.6	Lin.Ft.	674
	Conduit in Trench, 2" Dia. Galvanized Steel	Lin.Fl.	54
ĺ	Conduit Attached to Structure, 2" Dia, Galv. Steel	Lin Fr.	144
ł	Conduit Attached to Structure, 2" Dio. PVC	Lin, Fr.	6,440
l	Light Pole Aluminum, 45' M.H. 6 Ft. Davit Arm	Each	14
l	Luminore, Sodium Vapor, Rectilinar Type 150 Watt	Eoch	On
l	Luminare, Sodium Vapor, Rectilinar Type 250 Watt	Each	- 10
ł	Remuval of Existing Lighting System, Complete	Lump Sum	Ŭ M
l	Modify Existing Control Installation	Each	On
ł	Adjust Existing Light Standard	***	***



NOTES - BRIDGE ELECTRICAL WORK SEE SHEET 64

POWER FOR THE BRIDGE ROADWAY LIGHTING SYSTEM IS SUPPLIED FROM TWO SERVICE SOURCES, ONE NEAR PIER 10, THE OTHER NEAR THE EAST ABUTHENT

NOTE 11

HOTE 21

NOTE 5:

NOTE 6:

NOTE 7:

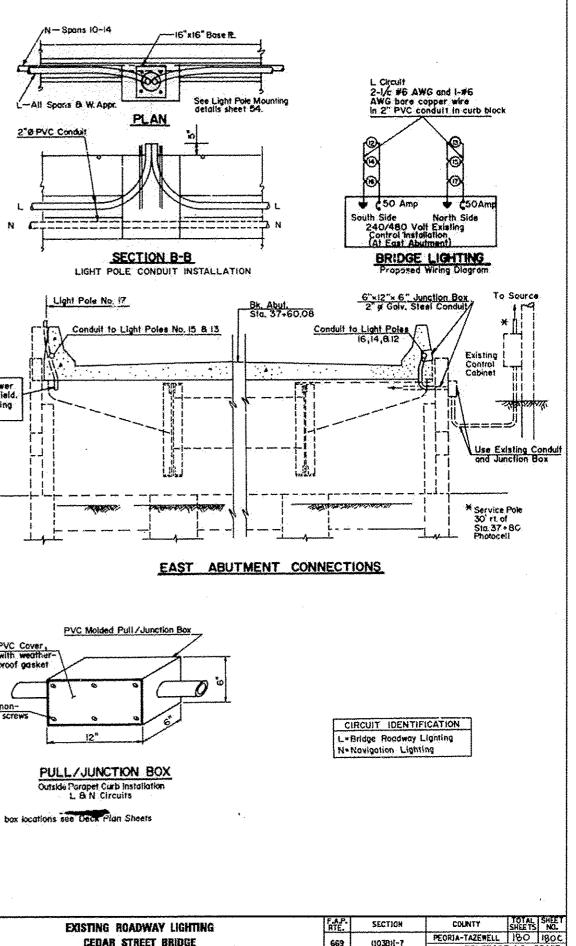
THIS CONTRACT INCLUDES THE REVIRING OF A COMPLETE LIGHTING SYSTEM INCLIDING, BUT NOT LIMITED TO, PROVIDING SERVICE FROM EXISTING CONTROL CABINETS TO SIXTEEN (16) PROPOSED LIGHT POLES, ONE (1) EXISTING LIGHT POLE AND SIX (6) NAVIGATION LIGHTS, REPLACED IN A PRECEEDING CONTRACT.

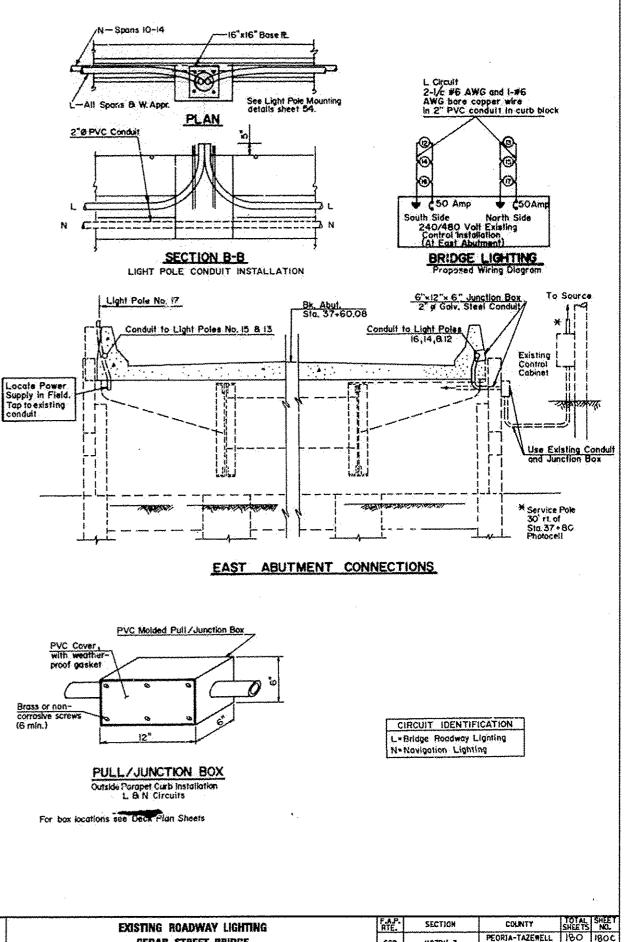
PAYMENT FOR THE PROPOSED RENIRING IS PROVIDED FOR IN BID ITEMS NOTE 3: FOR GALVANIZED STEEL AND PVC CONDUITS AND ELECTRIC CABLE. NUMERTION LIGHTING IS ON A L. MUM BASIS. NOTE 4: INBEDED CONDUITS IN PARAPET CURB BLOCKS SHALL BE 2" DIA. PVC PIPE, SCHEDULE NO, OR APPROVED SUBSTITUTE, UNLESS OTHERWISE DESIGNATED, CONDUITS NOT PROTECTED BY CONCRETE SHALL BE GALVANIZED STEEL OF A SIZE SHOWN IN THE PLANS.

> PAYMENT FOR FURNISHING AND INSTALLING JUNCTION BOXES, CONDULETS, HANGERS, ATTACHMENT DEVICES, EXPANSION SLEEVES, PULL BOXES AND ACCESSORIES REQUIRED BY THE NATIONAL ELECTRIC CODES AND/OR SHOWN IN, BUT NOT LIMITED TO THE PLANS, IS INCIDENTAL TO THE COST OF THE APPROPRIATE CONDUIT, LINEAL FEET.

NODIFICATION OF EXISTING CONTROL CABINET TO REPLACE EXISTING OVERHEAD WIRING CONNECTION TO PIER 10 WITH BURIED GALVANIZED STEEL CONDULT CONNECTION IS BILLED AS "MODIFY EXISTING CONTROL INSTALLATION, EACH".

REMABILITATION OF EXISTING LIGHT POLE AT WEST APPROACH INCLUDES ITEN "ADJUST EXISTING LIGHT STANDARD", INSTALLATION OF 150 WATT LUMINARE AND RENIRING WITHIN THE POLE.



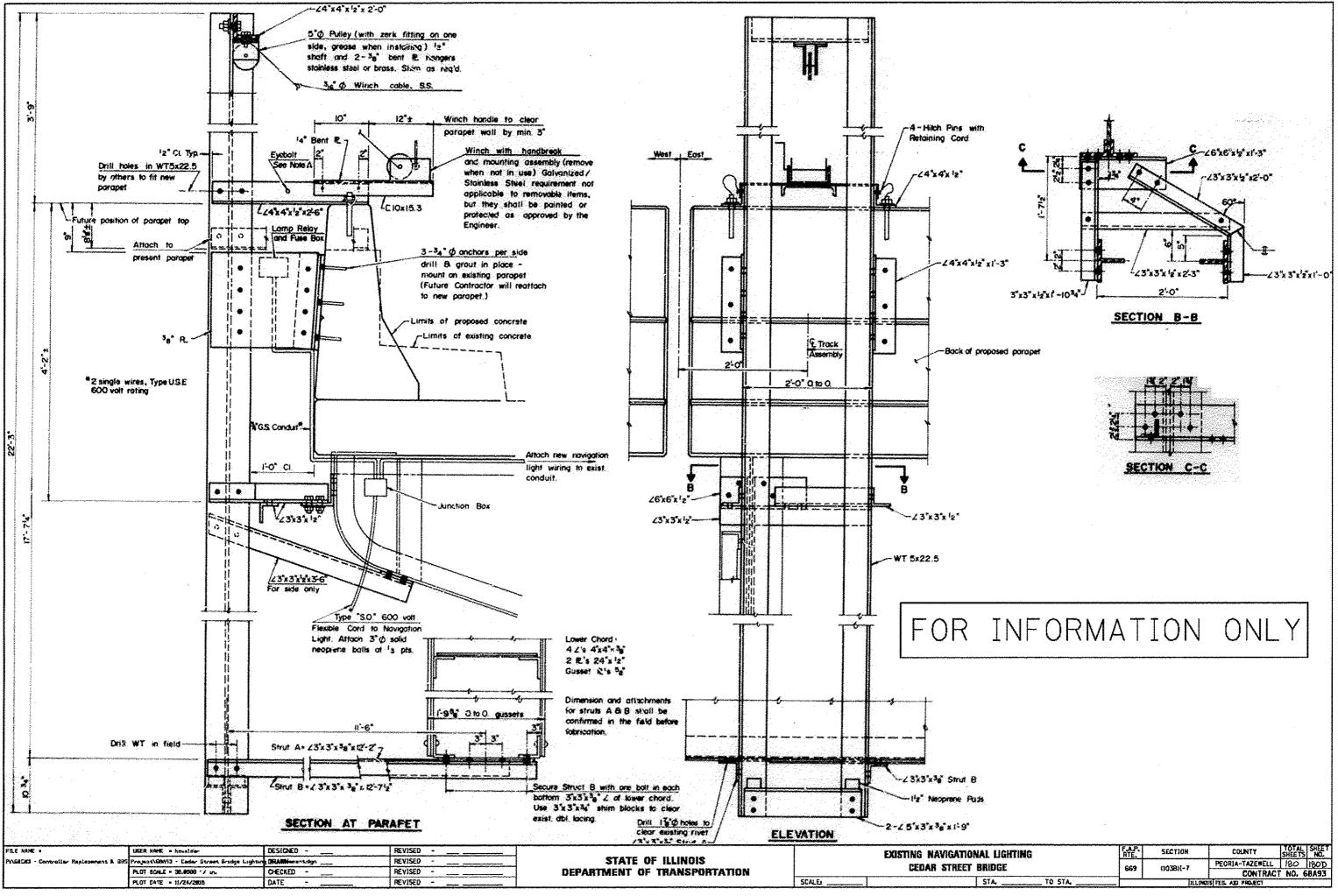


TO STA

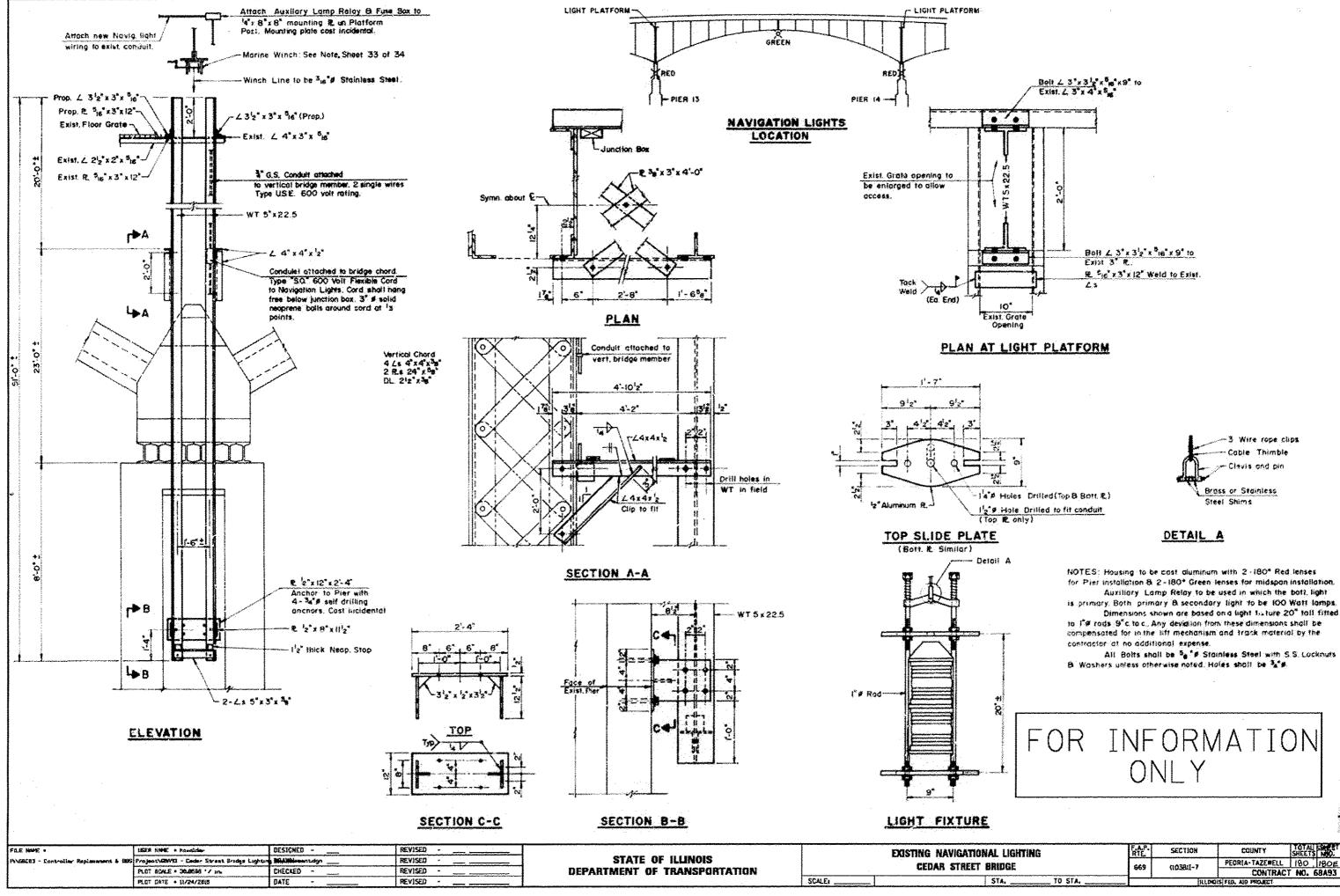
FOR INFORMATION ONLY

ILLONDIS FED. AD PROJECT

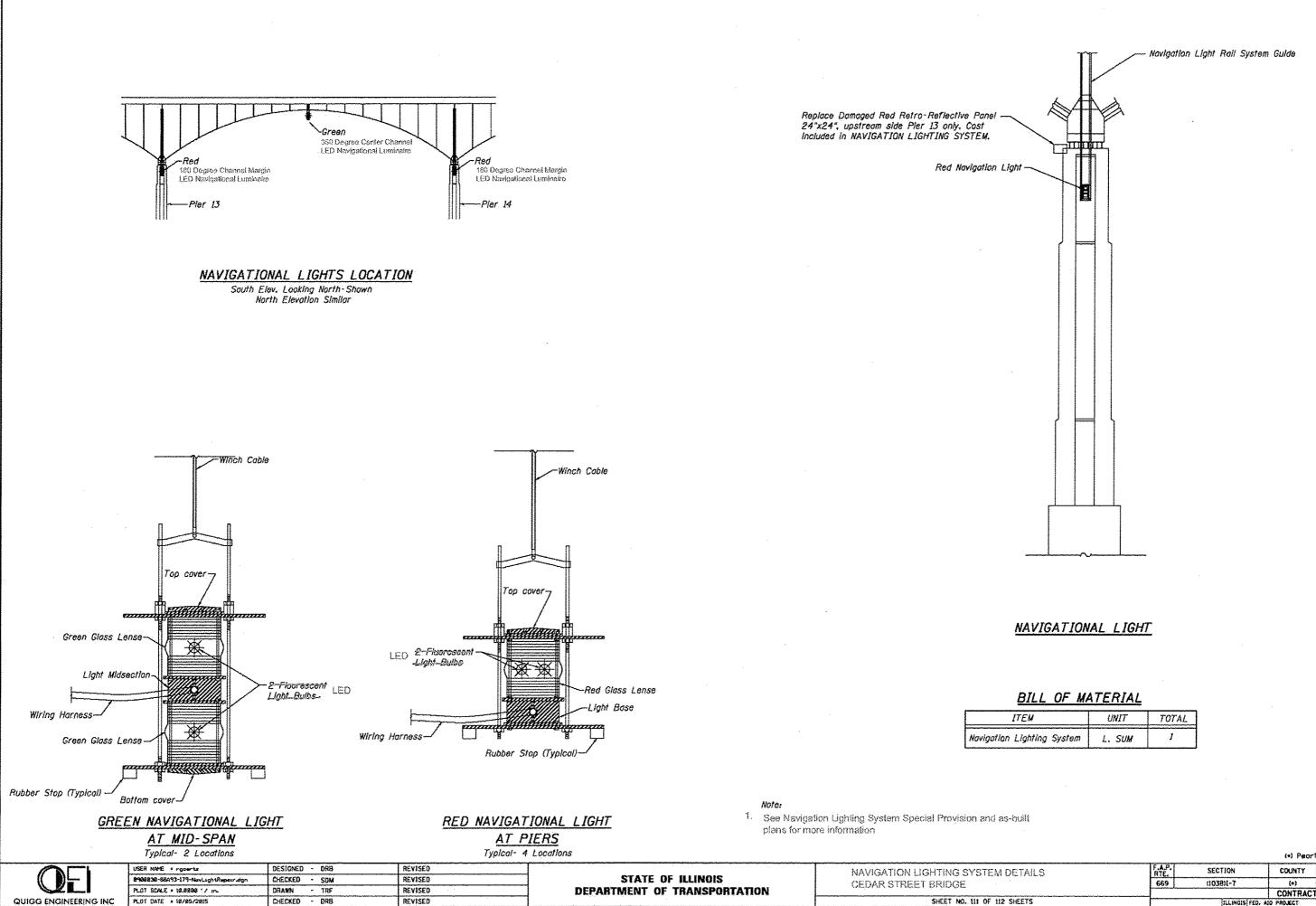
CONTRACT NO. 68A93



AL LIGHTING	F.A.P. RTE,	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
RIDGE	669	0038)[-7	PEORIA-TAZEWELL CONTRACT	180 180D
STA TO STA		11.0401	S FEG. AD PROJECT	



NL LIGHTING Ridge		SECTION COUNTY		TOTAL SMEET	
		(1038)1-7	PEORIA-TAZEWELL	180	180E
			CONTRACT	NO.	68A93
STA, TO STA,		RLDO	S FED. AND PROJECT		



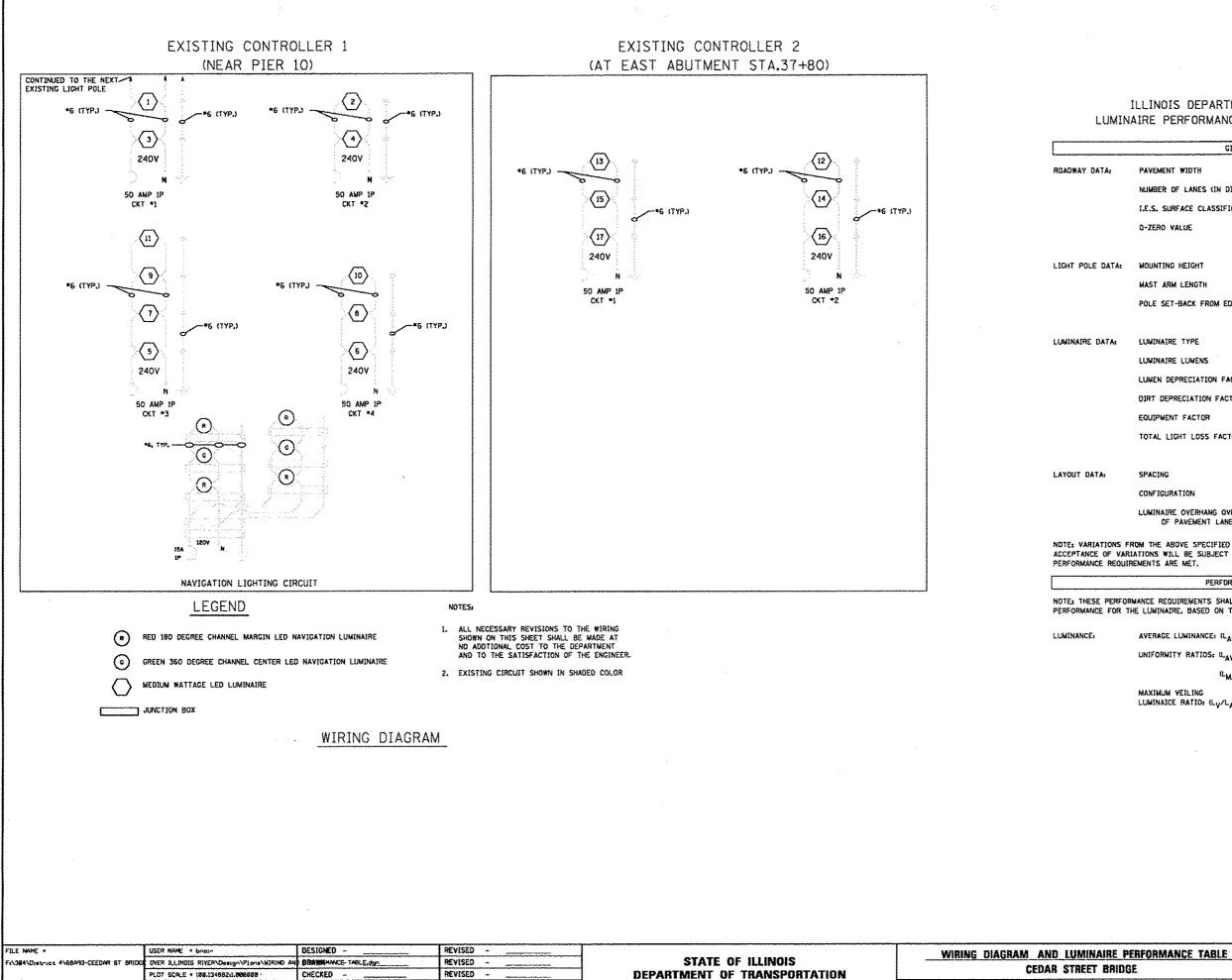
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SHEET NO. 111 OF 112

ITEM	ÛNIT	TOTAL
Lighting System	L. SUM	1

Int Peorte / Taxement

			1.1 1 201	10 2 1020900
DETAILS	F.A.P. RTE,	SECTION	COUNTY	TOTAL SHEE SHEETS NO.
	669	(1038)1-7	(=)	180 180F
			CONTRAC	T NO. 68A93
SHEETS		ILLINOIS FED. AL	O PROJECT	·····



*HODELNAME *

PLOT DATE . 81-DEC-2810 11-28

DATE

REVISED

ILLINOIS DEPARTMENT OF TRANSPORTATION LUMINAIRE PERFORMANCE TABLE - PROPOSED LIGHTING

	GIVEN CONDITIONS	
	PAVEMENT WIDTH	24 (FT_)
	NUMBER OF LANES (IN DIRECTION OF TRAVEL)	2
	LE.S. SURFACE CLASSIFICATION	R3
	Q-ZERO VALUE	.07
4	MOUNTING HEIGHT	47 (FT.)
	MAST ARM LENGTH	<u>6 (FT.)</u>
	POLE SET-BACK FROM EDGE OF PAVEMENT	0 (FT.)
	LUNINAIRE TYPE	LED
	LUNINAIRE LUNENS	20,000 MINIMUM
	LUNEN DEPRECIATION FACTOR	0.90
	DIRT DEPRECIATION FACTOR	0,80
	EQUIPMENT FACTOR	0.95
	TOTAL LIGHT LOSS FACTOR	0.684
	SPACING	515 (FT.)
	CONFIGURATION	STAGGERED
	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LANE	0 (FT.)

NOTE: VARIATIONS FROM THE ABOVE SPECIFIED LE.S. DISTRUBUTION PATTERN MAY BE REQUESTED AND ACCEPTANCE OF VARIATIONS WILL BE SUBJECT TO REVIEW BY THE ENGINEER BASED ON HOW WELL THE PERFORMANCE REQUIREMENTS ARE MET.

PERFORMANCE REQUIREMENTS

NOTEL THESE PERFORMANCE REQUIREMENTS SHALL BE THE MINIMUM ACCEPTABLE STANDARDS OF PHOTOMETRIC PERFORMANCE FOR THE LUMINAIRE, BASED ON TEH GIVEN CONDITIONS LISTED ABOVE

AVERAGE LUMINANCE: (LAVE)

UNIFORMITY RATIOS: ILAVE /LMIN

(LMAX/LMIN)

MAXIMUM VEILING LUMINAICE RATIO (Ly/LAVE) 0.6 Çd/m² 3.5:1 (MAX)

6.0:1 (MAX)

SECTION COUNTY SHEETS NO. F.A.P RTE. 669 (1038)-7 180 180G CONTRACT NO. 68493 SCALE: N.I.S.____ SHEET ____ OF 1___ SHEETS STA TO STA. ILLINOIS FED. AND PROJECT

0.311 (MAX)