STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

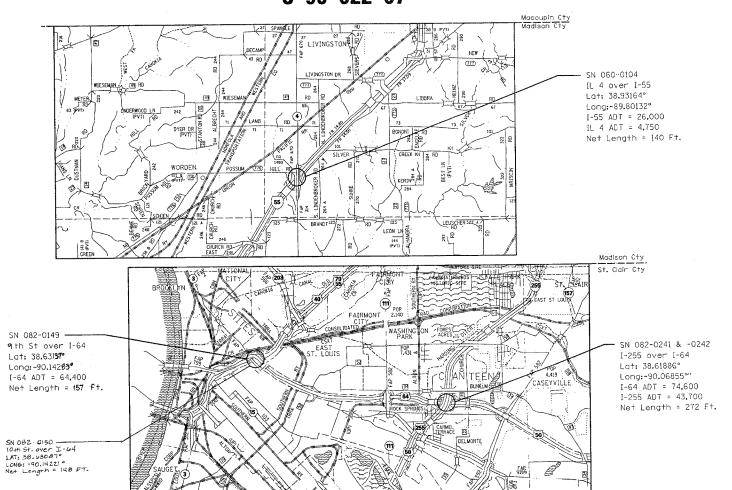
DIVISION OF HIGHWAYS

# PROPOSED HIGHWAY PLANS

VARIOUS ROUTES
SECTION DIST 8 BRIDGE REHAB 2008-1

ST. CLAIR AND MADISON COUNTIES
PERMANENT PROTECTIVE SHIELDING

C-98-022-07



CONTRACT NO. 76A49

RTE. SECTION COUNTY TOTAL SHEET NO.

VARIOUS • VARIOUS 8 1

• DIST 8 BRIDGE REHAB 2008-1

--98--020--07



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED

April 3 20 07

May C Lamy
DEPUTY DIRECTOR OF HIGHWAYS
REGION FIVE ENGINEER

May 11, 20 07

Fun E Ham B

DATUM ENGINEER OF DESIGN AND ENVIRONMENT

May 11, 20 07

Milton Region of Highways

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

PROJECT ENGINEER: PATTI LEBEAU 618–346–3179 SQUAD LEADER: CHERYL KEPLAR 618–346–3186

MICROFILMED
REEL NUMBER
AWARDED \_\_\_\_

RESIDENT ENGINEER

1-800-892-0123

**CONTRACT NO. 76A49** 

AS BUILT CHANGES WERE MADE

ON THE FOLLOWING SHEETS

ST. CLAIR & MADISON COUNTIES

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD

CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT

ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

FOR INDEX OF SHEETS, SEE SHEET NO. 2

SECTION DIST 8 BRIDGE REHAB 2008-1

8--1

## INDEX OF SHEETS

- 1. COVER SHEET
- 2. INDEX OF SHEETS, GENERAL NOTES, AND STANDARDS
- 3. SUMMARY OF QUANTITIES
- 4. LOCATION MAPS \*5. SN 082-0149 (9TH ST. OVER I-64) 6. SN 082-0241 & 0242 (I-255 OVER I-64)
- 7. SN 060-0104 (IL 4 OVER I-55)
- 8. PERMANENT PROTECTIVE SHIELD DETAILS
- \* 5A. SN 082-0150 (10th ST. OVER I-64)

## STANDARDS

701400-02 701406-04 701411-03 701446 702001-06

### GENERAL NOTES

- 1. Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.
- 2. Field welding of construction accessories will not be permitted to beams or girders.
- 3. All lanes on the structures shall be kept open to traffic.
- 4. The protective shielding plywood shall be cut to miss all crossframes or diaphragms that interfere. All gaps between plywood and crossframes or diaphragms shall be less than  $\frac{1}{2}$ ".
- 5. Utility interferences are not anticipated on this contract. Should this prove to be otherwise during any time of the construction, no additional cost shall be added to the contract resulting from the occurrence. The Joint Utility Locating Information for Excavators (J.U.L.I.E.) System number is (800) 892-0123.
- 6. Protective shielding shall extend to the outer edges of the shoulders but sections may extend further as shown on the plans due to bridge skew.
- 7. A two-week notice shall be given to the Resident Engineer prior to all lane closures.

REVISIONS NAME I	DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION INDEX OF SHEETS, GENERAL NOTES		
		AND STANDARDS		
		VARIOUS ROUTES		
		DIST 8 BRIDGE REHAB 2008-1		
		ST. CLAIR & MADISON COUNTIES		
		SCALE: VERT. DRAWN BY		

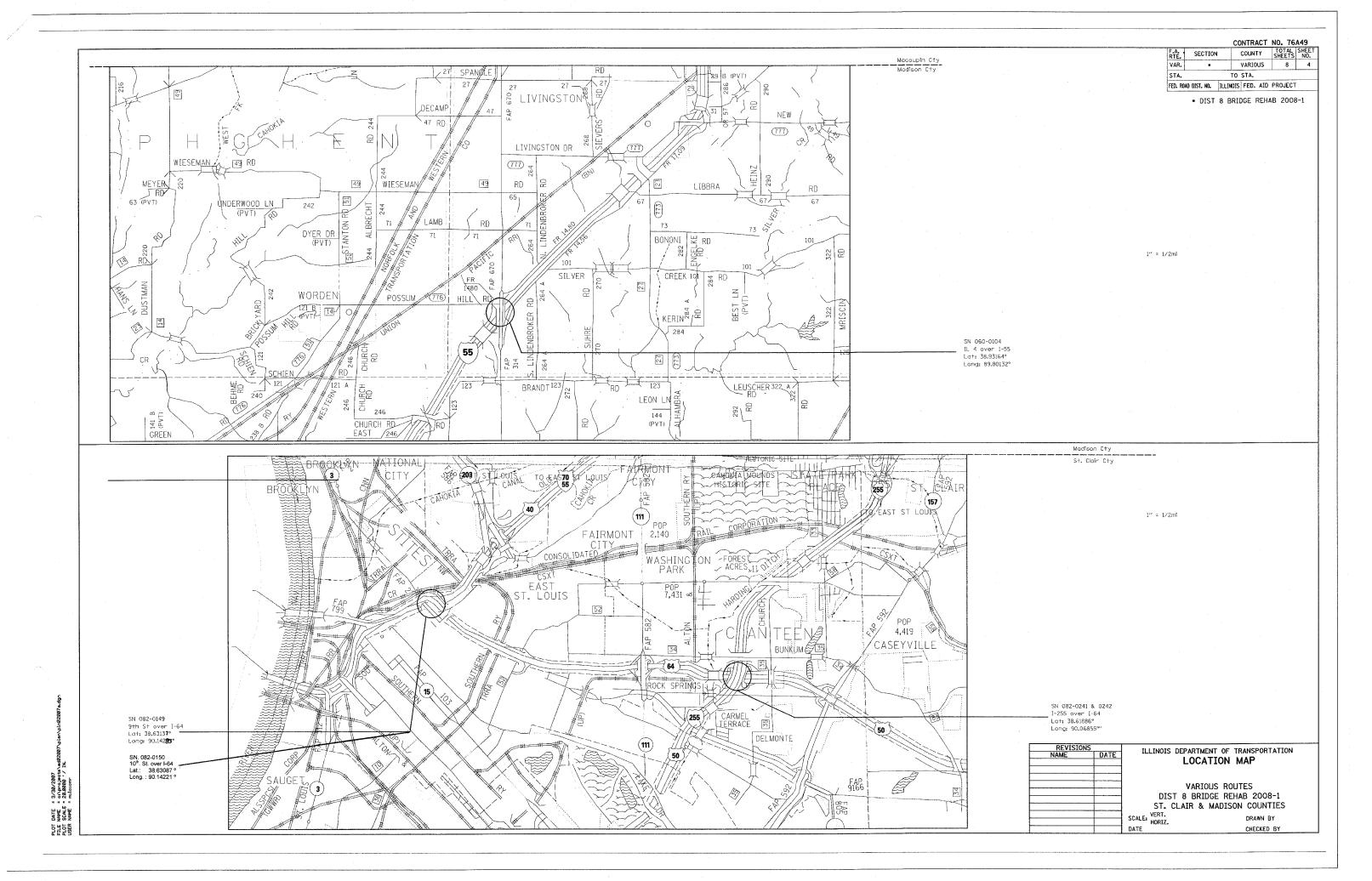
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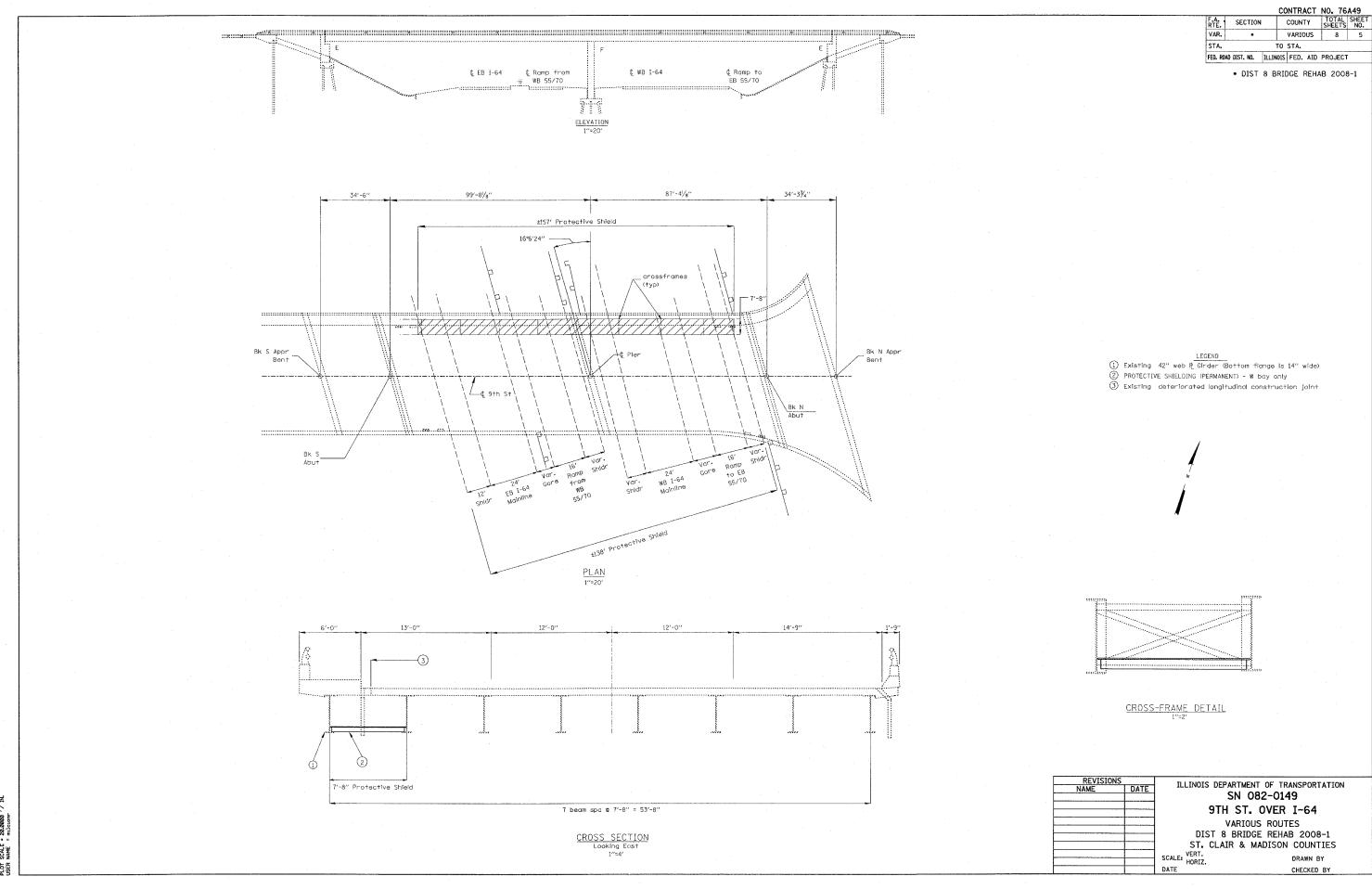
## SUMMARY OF QUANTITIES

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SUMMARY OF QUANTITIES		ا د د د د د د د د د د د د د د د د د د د	CONSTRUCTION TYPE CODE (SFTY2A 100% STATE)			200 5:55
	UNIT	URBAN TOTAL QUANTITIES	082-0149 9TH OVER I-64	1255 OVER I-64	060-0104 IL 4 OVER 55	I
CODE NO ITEM			ST. CLAIR CO.	ST. CLAIR CO.	MADISON CO.	ST.CLAIR CO
7100100 MOBILIZATION	L SUM	1	0.2	0.3	0.3	0.2
TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	4	2	2		
D100700 TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	0.2	0.3	0.3	0.2
0100815 TRAFFIC CONTROL AND PROTECTION,	L SUM	1	0.3	0.5		0.2
STANDARD 701446  0322066 PROTECTIVE SHIELD (PERMANENT)	SQ YD	1647	134	504	887	/22
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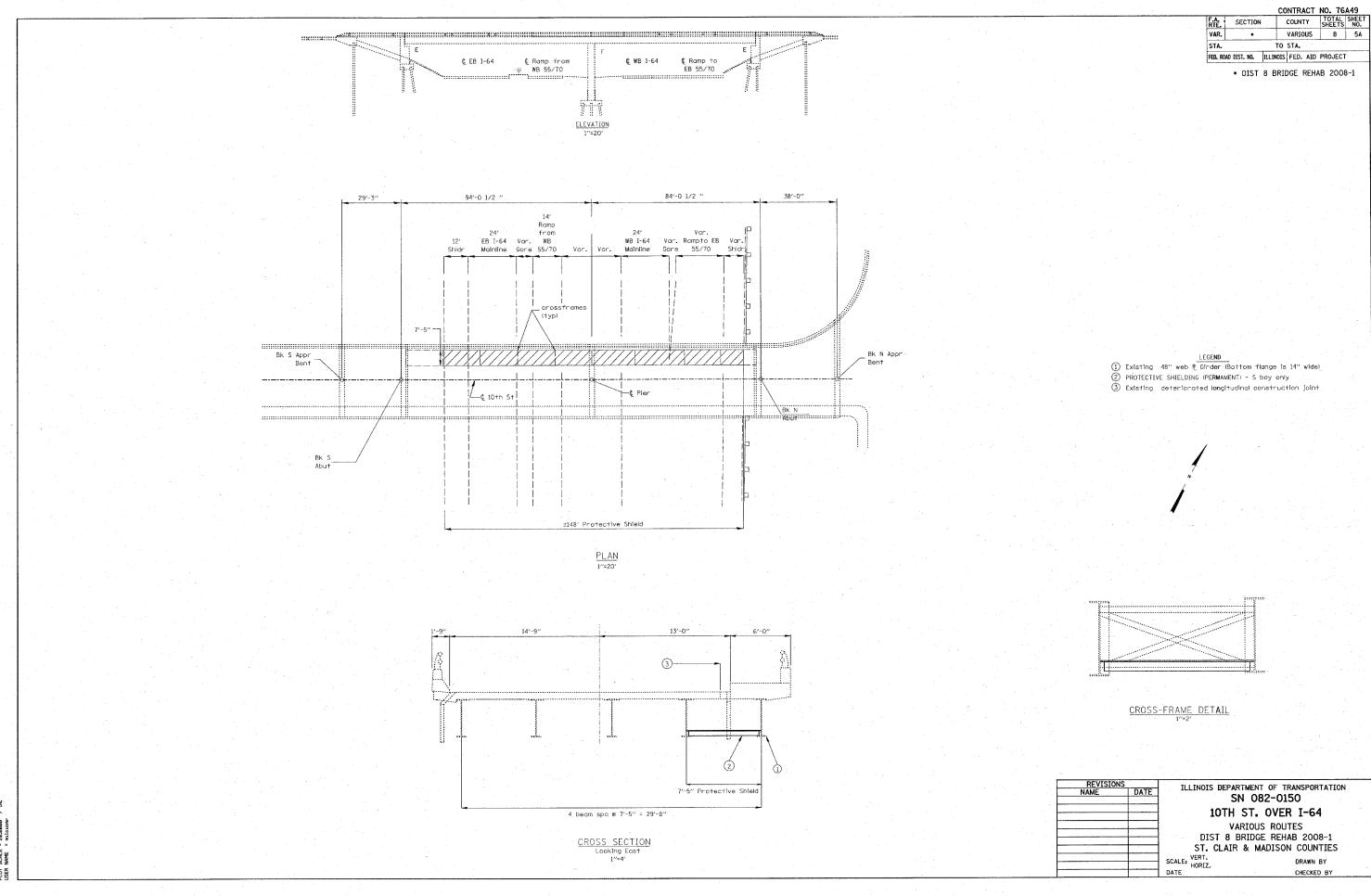
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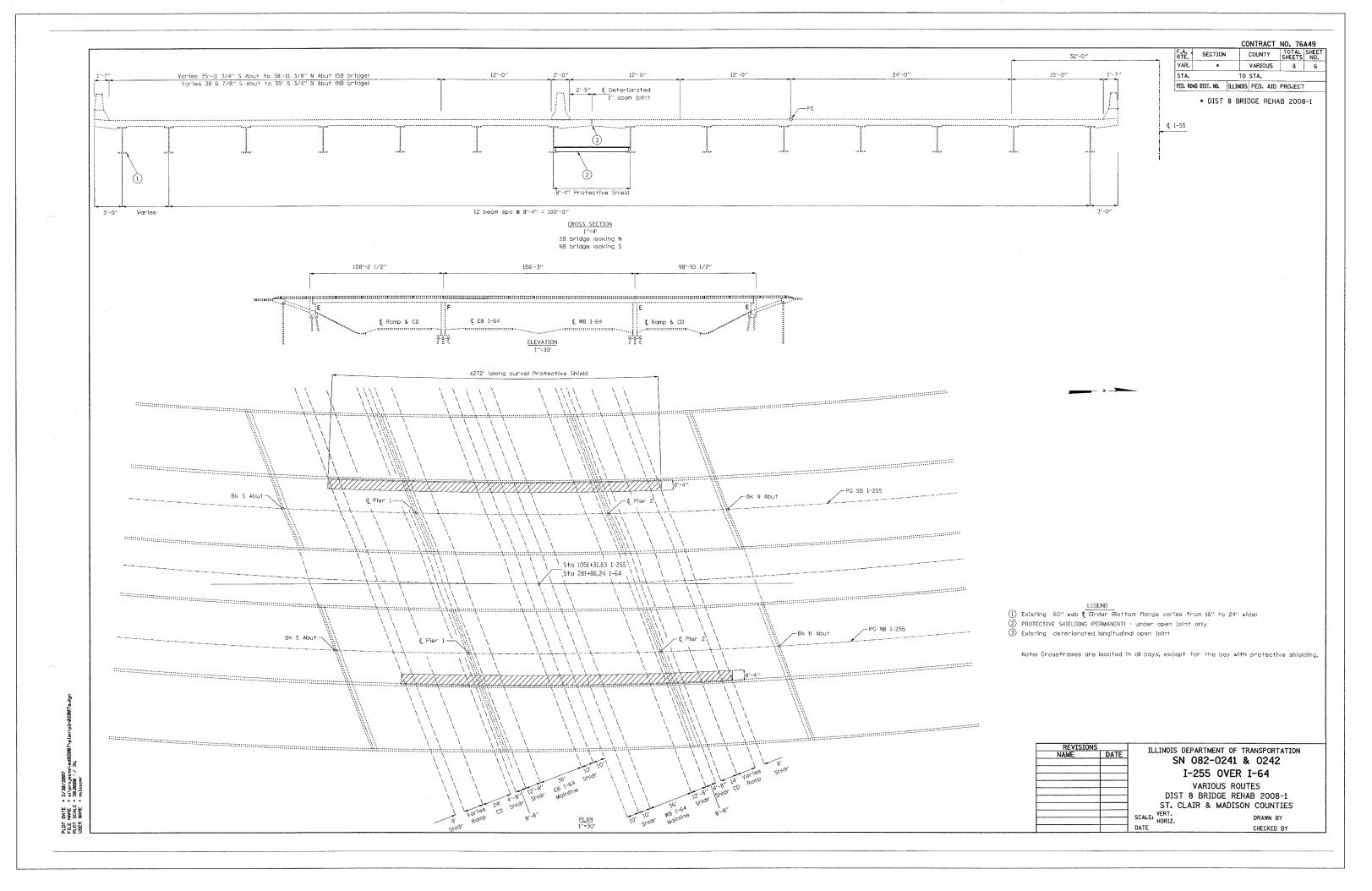


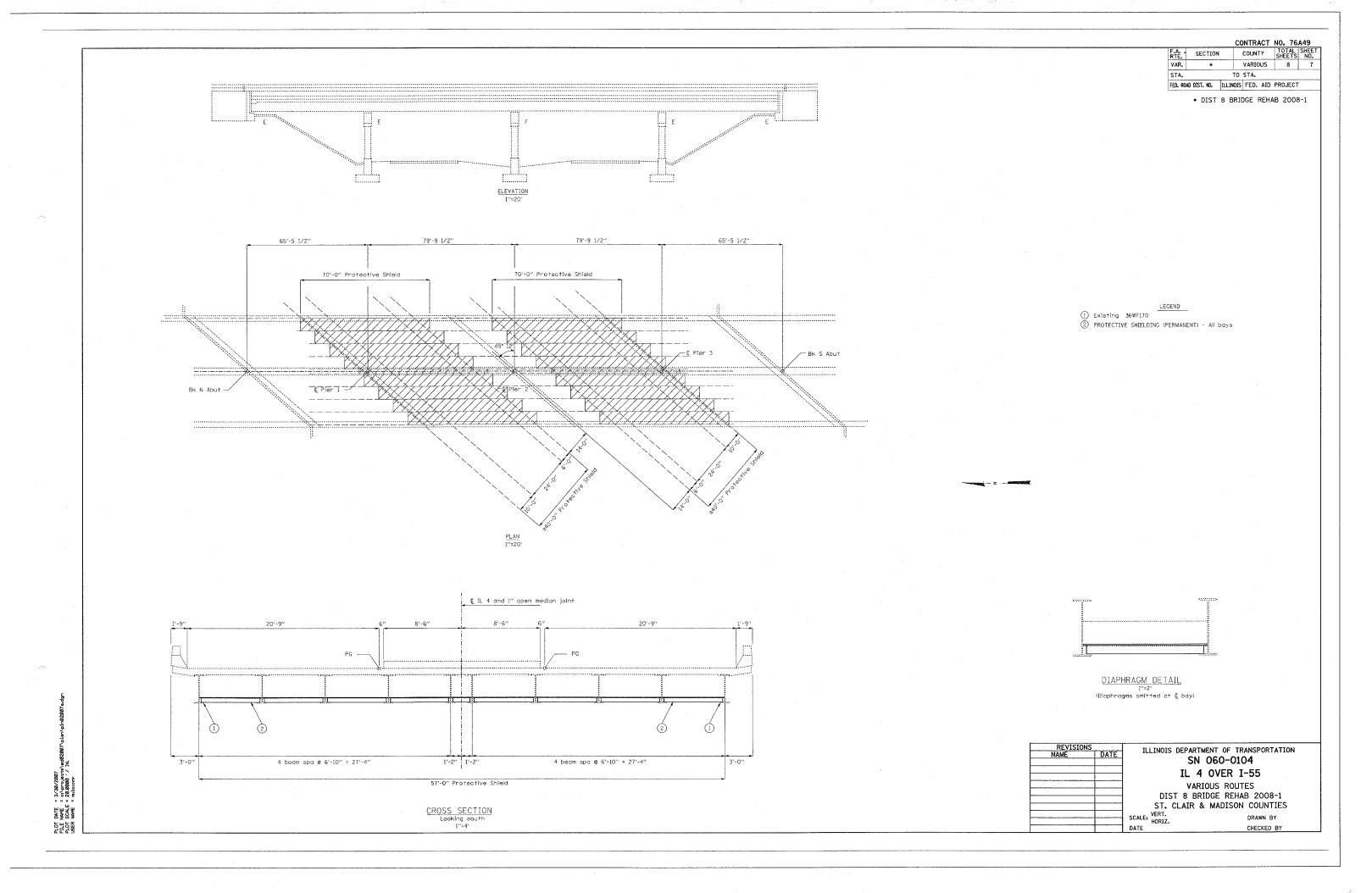


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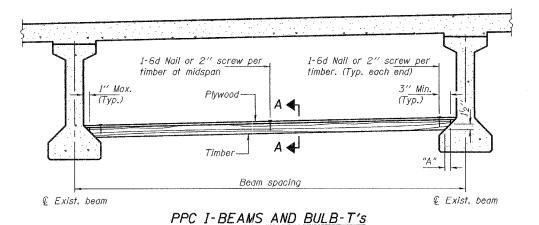


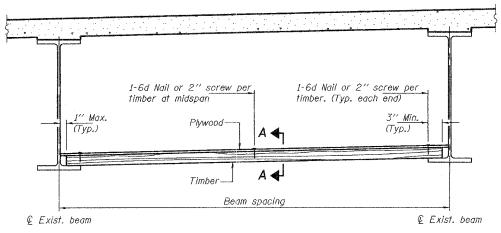


#### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

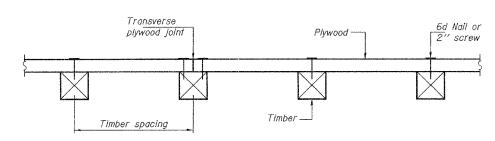
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\* DIST 8 BRIDGE REHAB 2008-1





## STEEL BEAMS



SECTION A-A

#### TIMBER SPACING

	Timber Sizes (in.)				
Beam Spacing (ft.)	4" x 4" with min. Fb=775 psi Fv=135 psi Maximui	4" x 6" with min. Fb=775 psi Fv=135 psi m Timber Space	6" x 6" with min. Fb=575 psi Fv=125 psi ina (in.)		
4.5	16	16	16		
4.75	16	16	16		
5.0	16	<i>1</i> 6	16		
5.25	16	16	16		
5.5	<i>1</i> 6	<i>1</i> 6	16		
5.75	16	16	16		
6.0	16	16	<i>1</i> 6		
6.25	12	16	16		
6.5	12	<i>1</i> 6	16		
6.75	12	<i>1</i> 6	<i>1</i> 6		
7.0	8	<i>1</i> 6	16		
7.25	8	<i>1</i> 6	16		
7.5	8	<i>1</i> 6	16		
7.75	8	<i>1</i> 6	<i>1</i> 6		
8.0	8	12	16		
8 <b>.</b> 25	8	12	16		
<b>8.</b> 5	6	12	12		
<b>8.</b> 75	6	12	12		
9.0	6	8	12		

#### PPC I-BEAMS AND BULB-T's

		104-10-5-1
BE	EAM .	"A"
36′′ I	-Beam	12"
42" 1	-Beam	12"
48′′ 1	-Beam	12"
54'' I	-Beam	158"
63″ E	Bulb - T	33 <sub>8</sub> "
72" F	Rulb-T	33011

See special provision for Permanent Protective Shield System.

Timber sizes shown are nominal sizes. Rough sawn timber of the dimensions shown will also be considered acceptable.

The minimum Fb and Fv values shown are the tabulated design values given in the National Design Specification for Wood Construction for No. 2 Spruce-Pine-Fir without adjustment factors applied. Better grades or other species with equal or higher allowable stresses will also be considered acceptable.

The timber spacings shown have been determined using allowable stresses with all adjustment factors necessary for the anticipated service conditions. All timber shall be treated. Plywood shall be  ${}^58^{\prime\prime}$  Exterior type plywood.

Plywood shall be placed such that the face grain is perpendicular to the timber supports. When less than a full sheet (4' width) of plywood is used, the width of the strip used shall not be less than 2'.

Transverse plywood joints shall be supported by timbers. When 4" x 6" timbers are used, they shall be placed such that the wide face is horizontal and the narrow face is vertical. Design load = 200 psf.

## BILL OF MATERIAL

Item	Unit	Total
Protective Shield (Permanent)	Sq. Yd.	1647

CHECKED BY

ILLINOIS DEPARTMENT OF TRANSPORTATION PERMANENT PROTECTIVE SHIELD DETAILS VARIOUS ROUTES DIST 8 BRIDGE REHAB 2008-1 ST. CLAIR & MADISON COUNTIES SCALE: VERT. DRAWN BY

PPS-1

05-03-07