STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

F.A.I. ROUTE 57 (I-57) NB & SB
SECTION D9 BRIDGE REPAIR 2010-1
STRUCTURAL STEEL AND MISC. REPAIRS
ALEXANDER COUNTY
C-99-079-10

TRAFFIC DATA

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3

I-57 TRAFFIC DATA

2007 ADT = 10,200 37% TRUCKS

EXISTING STRUCTURE NO. 002-0022
FAI 57 (I-57 NB & SB)

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

I.U.L.I.E.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: DAVID PICHE (618) 351-5227 DESIGNER: T. WAYNE HALSTEAD (618) 351-5224

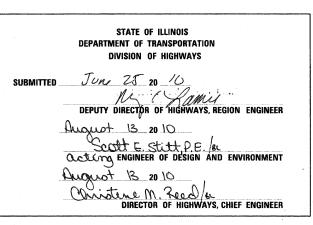
> SN 002-0022 NET LENGTH OF PROJECT = 4090'-6"

D-99-07%-10



SECTION

57 D9 BRIDGE REPAIR 2010-1 ALEXANDER 10 1-ILLINOIS CONTRACT NO.78220



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 78220

GENERAL NOTES

- 1) IN ADDITION TO THE REQUIREMENTS OF ARTICLE 107.16 THE CONTRACTOR SHALL PROTECT THE SURFACE OF ALL BRIDGE DECKS AND BRIDGE APPROACH PAVEMENTS IN A MANNER SATISFACTORY TO THE ENGINEER BEFORE ANY EQUIPMENT IS ALLOWED TO CROSS THE STRUCTURE. PROTECTION SHALL BE PROVIDED FOR ALL EQUIPMENT AS DEFINED IN ARTICLE 101.16 REGARDLESS IF TRACK MOUNTED OR WHEELED.
- 2) COMMITMENTS: NONE AS OF JUNE 25, 2010

STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
701101-02	OFF-ROAD, MULTILANE 15' TO PAVEMENT EDGE
701400-04	APPROACH TO LANE CLOSURE FREEWAY/EXPRESSWAY
701401-0 <u>5</u>	LANE CLOSURE FREEWAY/EXPRESSWAY
701901-01	TRAFFIC CONTROL, DEVICES

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, GENERAL NOTES, STANDARDS
- 3 SUMMARY OF QUANTITIES
- 4 DETOUR SHEET DETAILS
- 5-10 STRUCTURE REPAIR PLANS

Prepared	Ву:	Ove Blankawien
Examined	Ву:	DISTRICT STUDIES & PLANS ENGINEER
Examined	Ву:	DISTRICT LAND ACQUISITION ENGINEER Canic Nukon DISTRICT PROGRAM DEVELOPMENT ENGINEER
Examined	Ву:	DISTRICT PROGRAM DEVELOPMENT ENGINEER DISTRICT OPERATIONS ENGINEER
Examined	Ву:	KPOLT
Examined	Ву:	Bruce w Riches
Examined	Ву:	DISTRICT MATERIALS ENGINEER DISTRICT PROJECT IMPLEMENTATION ENGINEER
Examined	Ву:	Donny Clayton ASSISTANIV REGIONAL ENGINEER
Approved	Ву:	DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER
		Juny 25 20 16

INDEX OF SHEETS, GENERAL NOTES
AND STANDARDS

SHEET NO. OF SHEETS STA. TO STA.

SCALE:

F.A.I. SECTION COUNTY TOTAL SHEETS NO.

57 D9 Bridge Repair 2010-1 ALEXANDER 10 2

CONTRACT NO. 78220

[ILLINOIS FED. AID PROJECT

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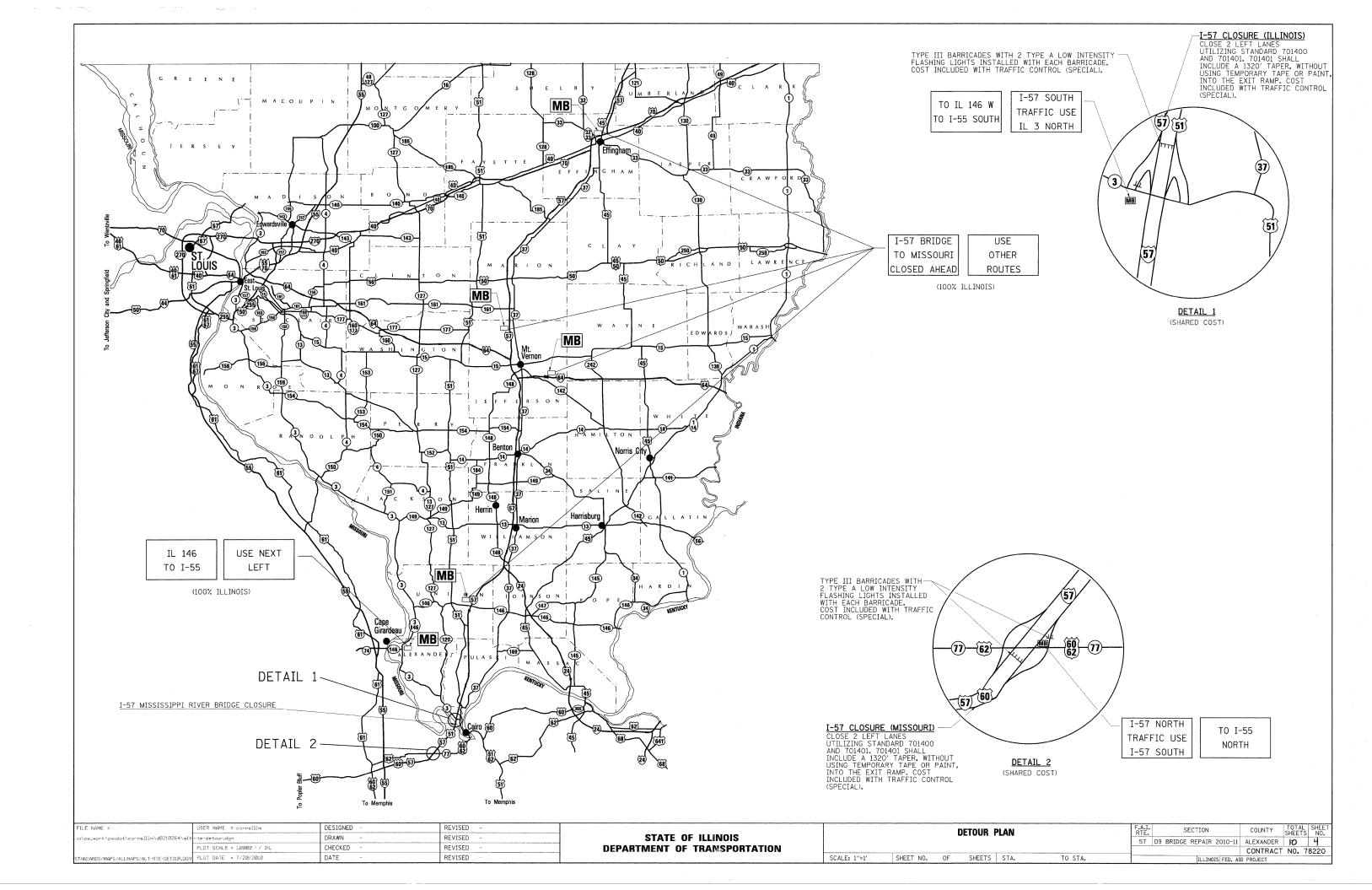
SUMMARY OF QUANTITIES

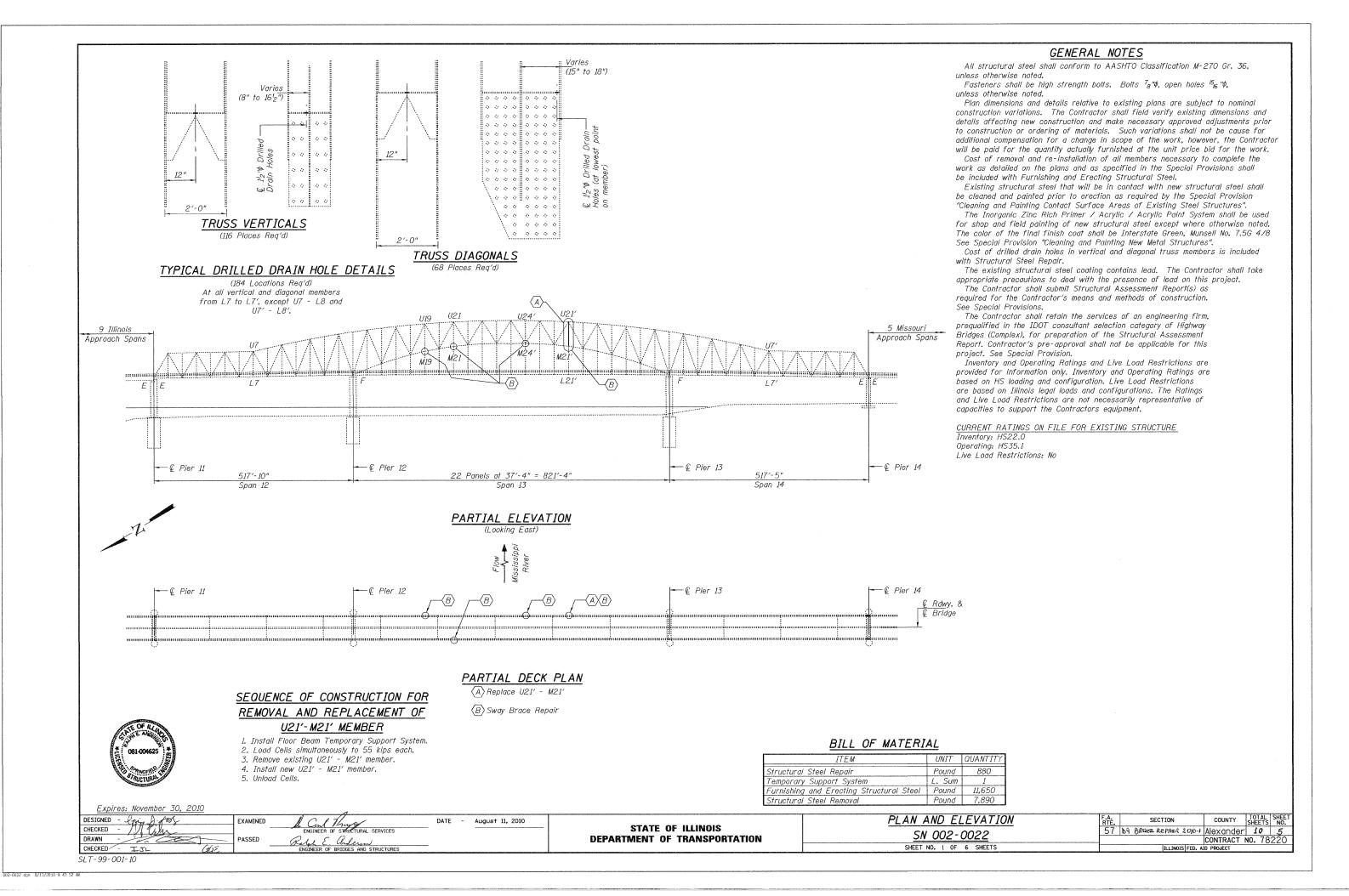
50% / 50% ILLINOIS/MISSOURI CONSTRUCTION TYPE CODE SFTY-2A TOTAL QUANTITY CODE NO. ITEM DESCRIPTION UNIT ILLINOIS MISSOURI 50500405 FURNISHING AND ERECTING STRUCTURAL STEEL POUND 11,650 5825 5825 POUND 7890 3945 3945 Z000/903 STRUCTURAL STEEL REMOVAL Z0001905 STRUCTURAL STEEL REPAIR POUND 890 445 445 67000400 ENGINEER'S FIELD OFFICE, TYPE A CAL MO 67100100 MOBILIZATION L SUM 70100800 TRAFFIC CONTROL AND PROTECTION, STANDARD 701401 70103800 TRAFFIC CONTROL (SPECIAL) L SUM 70106800 CHANGEABLE MESSAGE SIGN 6.5 CAL MO 0.5 Z0073500 TEMPORARY SUPPORT SYSTEM L SUM .5 .5 Z0030250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 EACH

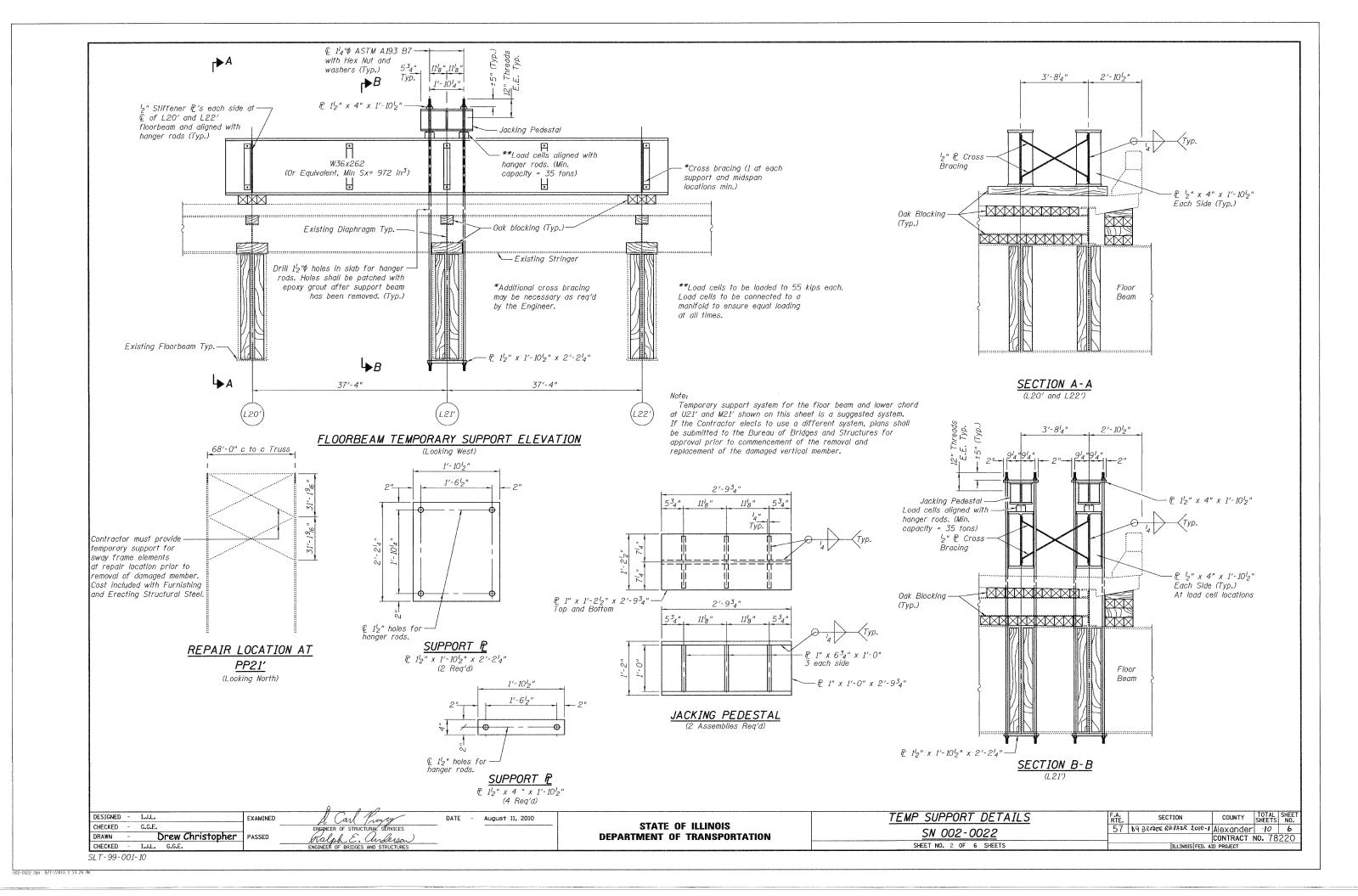
USER NAME ≈ cornelllm	DESIGNED	-	REVISED	-	
	DRAWN	-	REVISED	-	
PLOT SCALE = 50.0000 '/ IN.	CHECKED	-	REVISED	-	
PLOT DATE = 6/16/2010	DATE	-	REVISED	-	

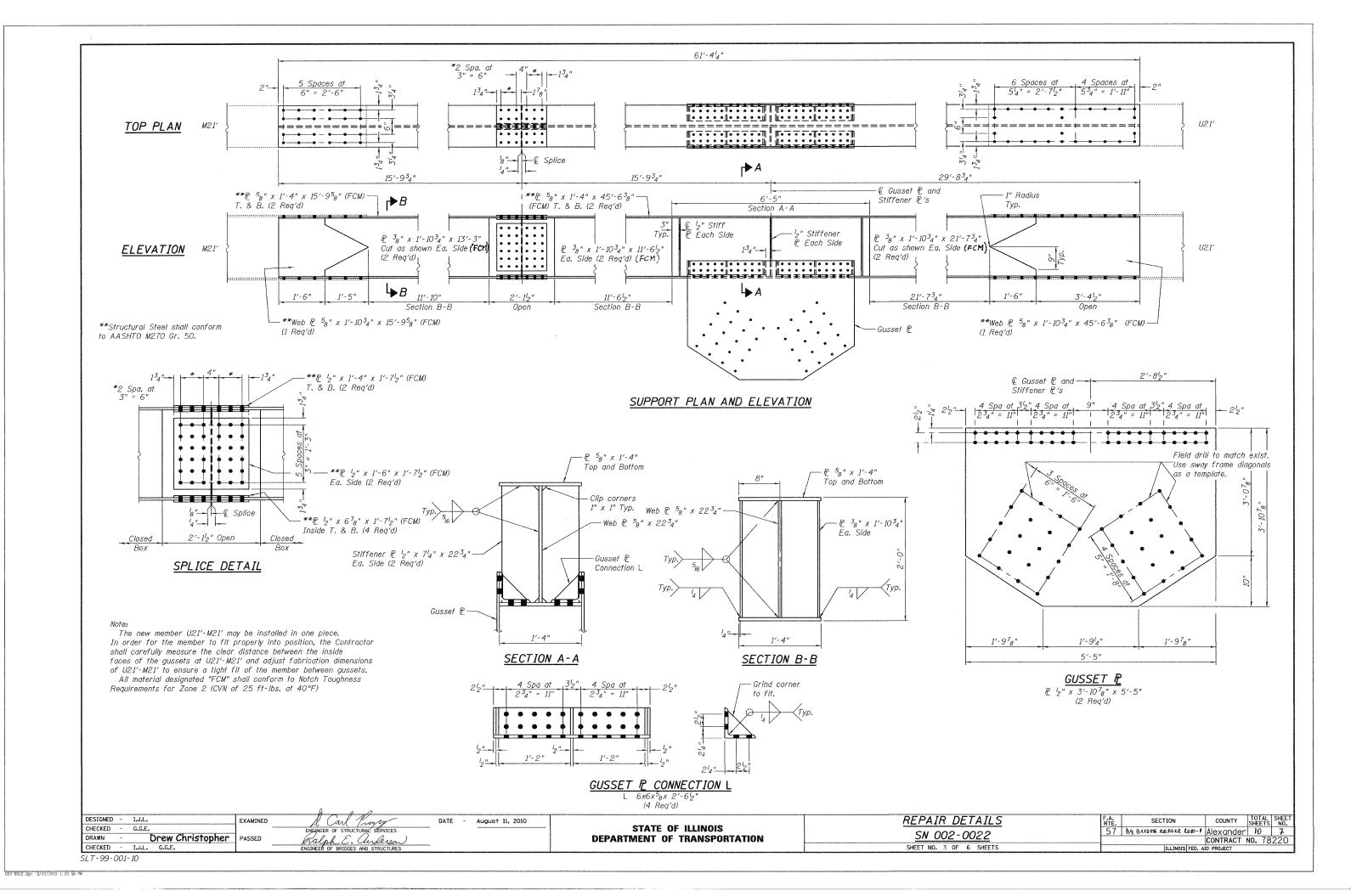
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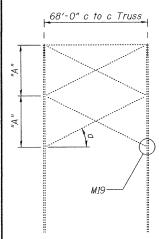
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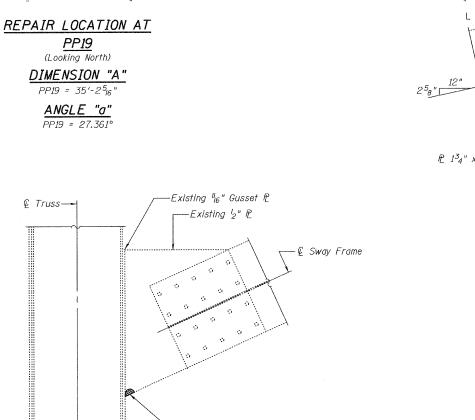




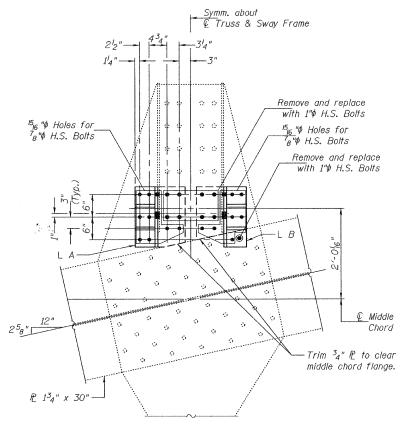




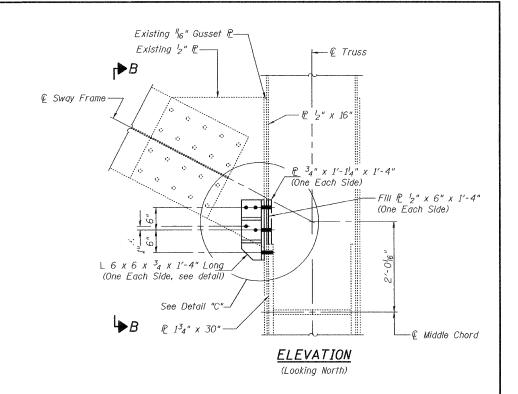




Remove bottom corner of existing Sway Brace Connection P to a 1" radius (max.) at cracked locations. Only remove as much plate material as necessary to expose cracked portion of existing welds. Grind cracked weld material smooth against gusset plate. Inspect gusset plate & connection plate to ensure cracks are removed using dye penetrant or magnetic particle testing. Cost included with Structural Steel Repairs. Any cracks found in the gusset plate or connection plate shall be identified and reported to the Bureau of Bridges and Structures for further disposition. This work is to be done prior to any installation of repair angles

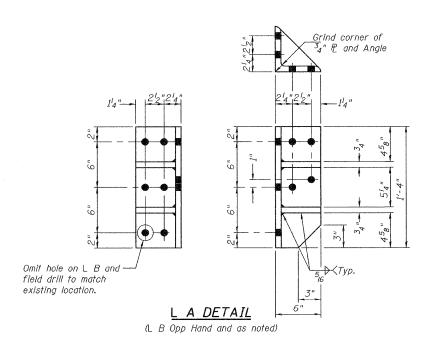


VIEW B-B (Looking East)



SWAY BRACING RETROFIT AT LOCATION M19

(East Truss, 1 location)



The cost of plates, angles, bolts and all field drilling required for installation of the steel members is included with Structural Steel Repair. PP = Panel Point

BILL OF MATERIAL

Item	Unit	Quantity
Structural Steel Repair	Pound	230

DESIGNED - I.J.L. EXAMINED CHECKED - G.G.E. Drew Christopher PASSED DRAWN -CHECKED - I.J.L. G.G.E.

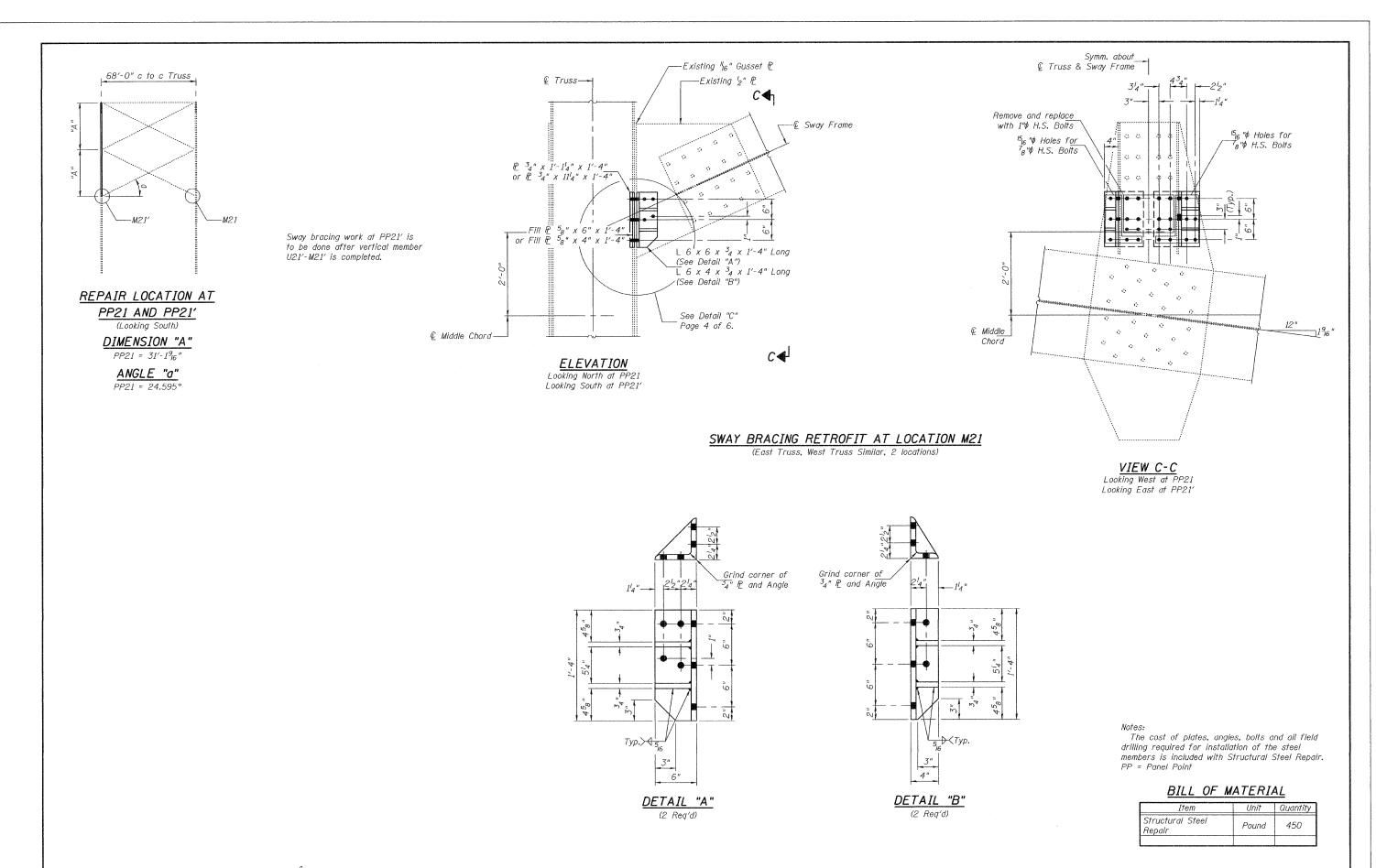
DETAIL "C"

DATE -August 11, 2010

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** SWAY FRAME DETAILS SN 002-0022 SHEET NO. 4 OF 6 SHEETS

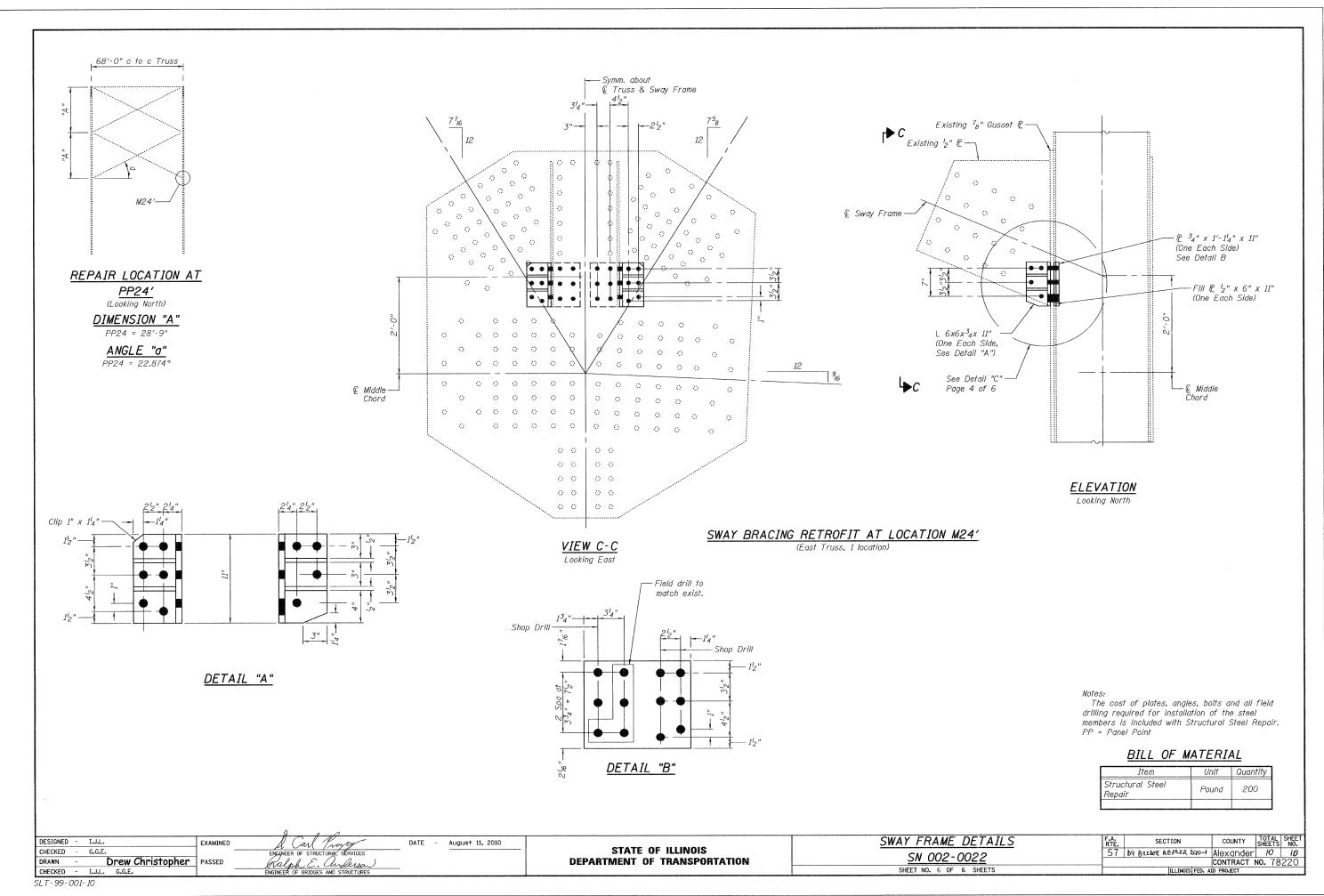
F.A. SECTION COUNTY SHEETS NO. 57 by BRIDGE REPARA 2010-1 Alexander 10 8 CONTRACT NO. 78220

SLT-99-001-10



DESIGNED - I.J.L. EXAMINED A Carl Purpy DATE - August 11, 2010		SWAY FRAME DETAILS	RTE. SECTION COUNTY TOTAL SHEETS NO.
CHECKED - G.G.E. ENGINEER OF STRUCTURAL SERVICES	STATE OF ILLINOIS	SN 002-0022	57 DA BAIDUE REPAIR 2010-1 Alexander 10 9
DRAWN - Drew Christopher PASSED Walph E. Chrileson	DEPARTMENT OF TRANSPORTATION	JIV OUZ OUZZ	contract no. 78220
CHECKED - I.J.L. G.G.E. ENGINEER OF BRIDGES AND STRUCTURES		SHEET NO. 5 OF 6 SHEETS	ILLINOIS FED. AID PROJECT

SLT-99-001-10



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