

STRUCTURE NO. 099-9901

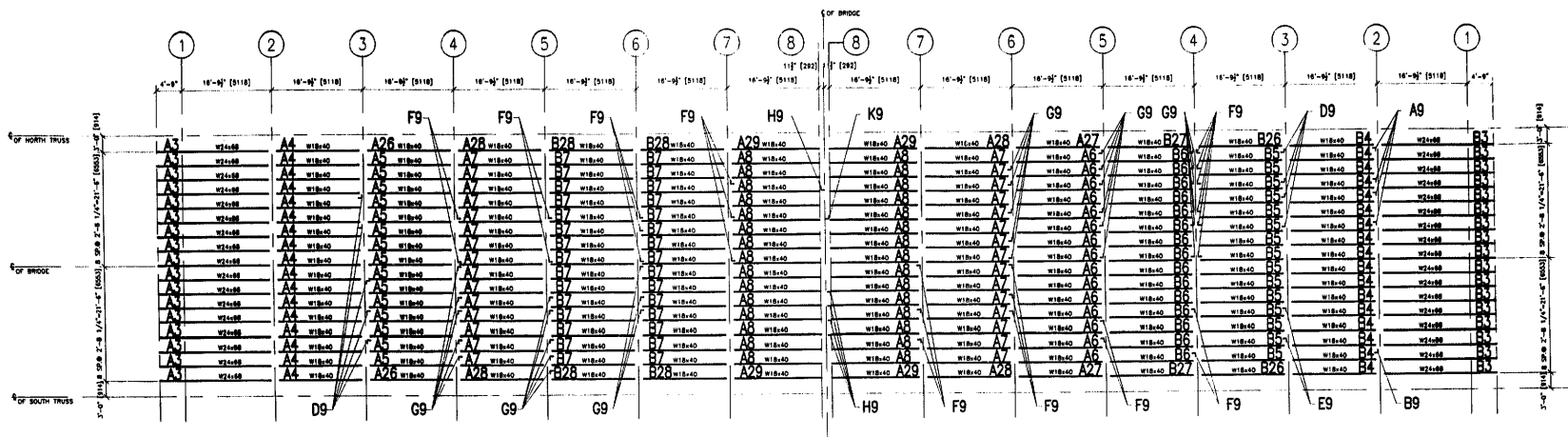
SECTION M-B-DR-4-I-1

ROUTE F.A.P. 112

STATION

CONTRACT NO. 60193

WILL COUNTY



PLAN

WEST LEAF

EAST LEAF

APPROVED
For Main Dimensions and
Materials Only
SEP 17 2002
Ralph L. Anderson
Engineer of Bridges and Traffic Structures

FIELD VERIFY ALL

REVIEWED

NO CORRECTIONS TAKEN REVISED

MAKE CORRECTIONS AS NOTED PARSONS BRINCKERHOFF
GUARD B. QUIGLEY, P.E.

BY: J. [Signature] DATE: 9/3/02

REVISION APPLIES TO THE GENERAL ARRANGEMENT AND
DETAILS OF BRIDGE STRUCTURE AND TRAFFIC STRUCTURE
AND NOT TO THE MATERIALS SPECIFICATIONS AND
WORK ON STRUCTURE CONSTRUCTION AND IS SUBJECT
TO THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS
AND SUCH CORRECTIONS AS MAY BE NOTED HEREON.
VERIFY ALL DIMENSIONS IN FIELD AND
COORDINATE WORK WITH ADJOINING TRADES.

APPROVED
For Main Dimensions and
Materials Only
SEP 11 2002
Ralph L. Anderson
Engineer of Bridges and Traffic Structures

GENERAL NOTES

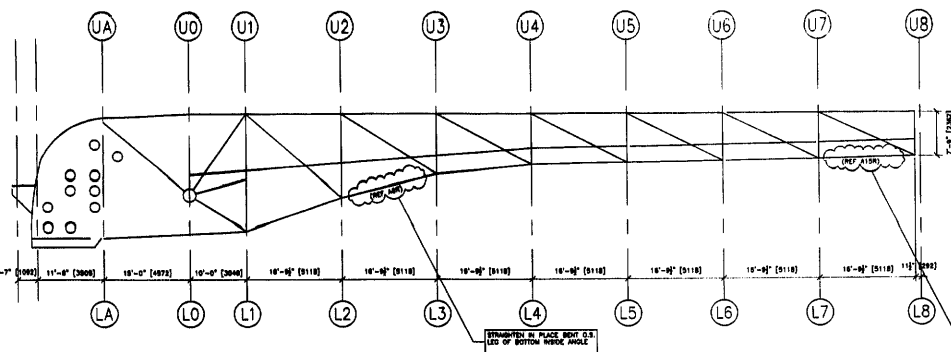
1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR38 UNLESS NOTED OTHERWISE.
3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M148 GALV. 7/8" UNLESS NOTED OTHERWISE, OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
6. CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER.
7. WTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2.

SCALE: 1"=10' REF. SHEET NO. 19

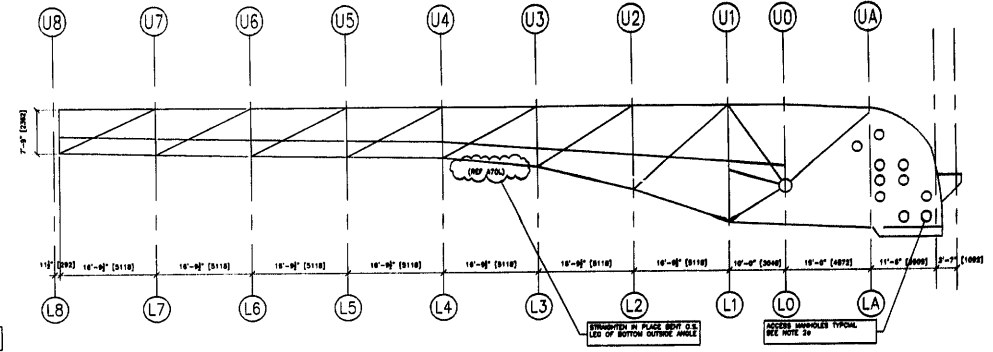
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY FOR CONFORMANCE WITH THE CONTRACT SPECIFICATIONS. APPROVE AND SIGN THIS DRAWING FOR THE CONTRACTOR'S USE. APPROVE AND SIGN THIS DRAWING FOR THE CONTRACTOR'S USE. APPROVE AND SIGN THIS DRAWING FOR THE CONTRACTOR'S USE.	PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" Ø TWELODS = E70XX MATI=ASIM A 36 U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	WELD SIZE: 1/4" DATE: 5/28/02 CHECKED BY: [Signature] DATE: 9/16/02 APPROVED: [Signature]
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D CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE	BRIDGE REHABILITATION	JOB NO.	
STRUCTURE	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO.	E1
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-4-1-1		
ENGINEER	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF STRUCTURE # 099-9901		



NORTHWEST TRUSS



NORTHEAST TRUSS

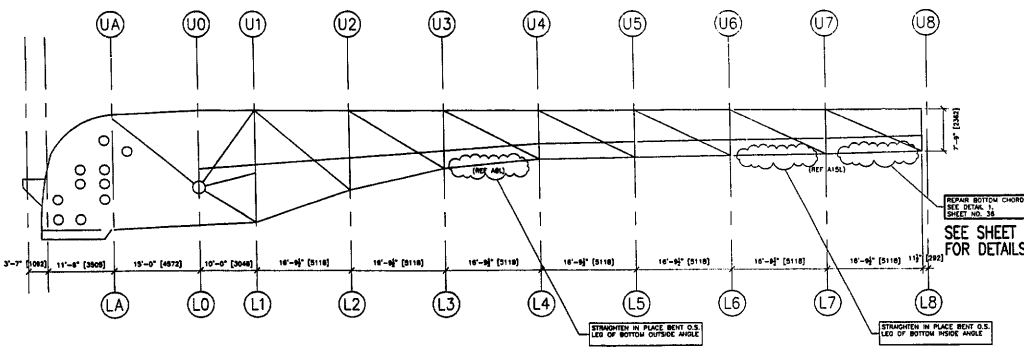
GENERAL NOTES

1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO A 270 GR56 UNLESS NOTED OTHERWISE
3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M148 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 13/16" UNLESS NOTED.
4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
6. CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

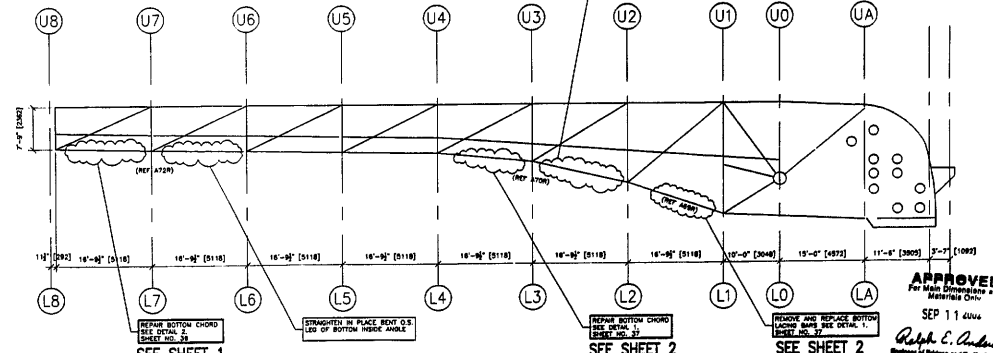
APPROVED
For Main Dimensions and Materials Only
SEP 17 2006
Robert C. Anderson
Supervisor of Bridges and Traffic Structures

REVIEWED
NO CORRECTIONS NEEDED
DATE: 9/20/06
BY: J. [Signature]
FOR THE ARCHITECT'S GENERAL ARRANGEMENT AND TO VERIFY ALL DIMENSIONS IN FIELD AND CO-ORDINATE WORK WITH ADJOINING TRADES.

SEE SHEET 2 FOR DETAILS



SOUTHWEST TRUSS



SOUTHEAST TRUSS

APPROVED
For Main Dimensions and Materials Only
SEP 11 2006
Robert C. Anderson
Supervisor of Bridges and Traffic Structures

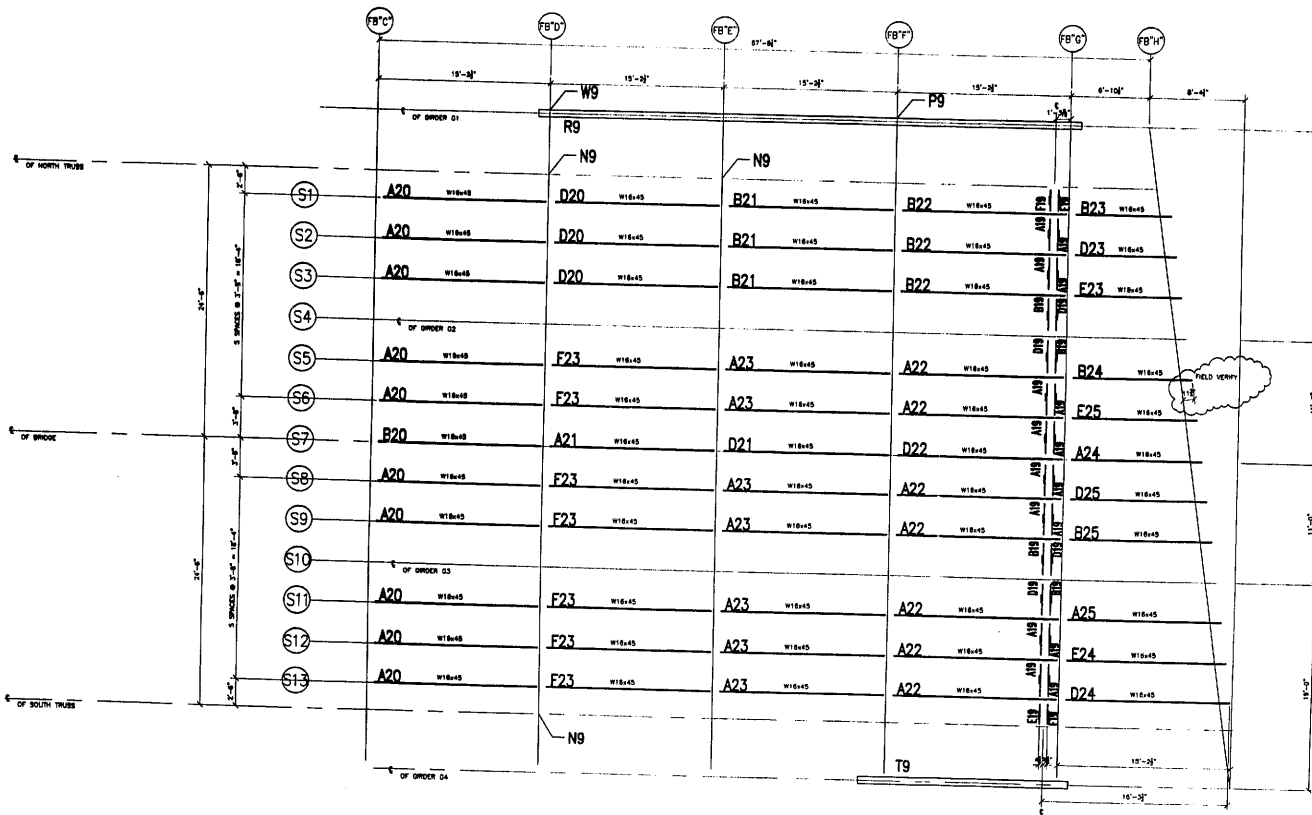
SCALE: 1"=10' **REF. SHEET NO. 35**

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. THE CONTRACT DOCUMENTS, SPECIFICATIONS AND THE 100% CONSTRUCTION SET SHALL BE THE BASIS FOR THE WORKMANSHIP OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS AND MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.	PAINT: INORGANIC ZINC RICH PRIMER WELD SIZE: 1/4" HOLES: 13/16" WELDS = E70XX MATL=ASTM A 36 } U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
NO. BY REVISIONS DATE DRAWN BY: GAH GAH ADDED MARKS & NOTES 6/4/02 DATE: 5/28/02 GAH ISSUED FOR APPROVAL 7/22/02 CHECKED BY: GAH RE-ISSUED FOR APPROVAL 8/14/02 DATE: APPROVED:	



D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1486 SO. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE	ERECTOR ELEVATIONS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO:
ENGINEER	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-9-BR-4-1-1	E2
	WILL COUNTY, ILLINOIS	
	PARSONS BRINCKERHOFF	
	STRUCTURE # 099-9901	



EAST APPROACH SPAN

REVIEWED

NO EXCEPTION TAKEN REJECTED

MAKE CORRECTIONS AS NOTED REJECTED

PARSONS BRINCKERHOFF
QUADE & DOUGLAS, INC.

BY: J. J. J. 9/3/02

REVIEW APPROVED FOR CONSTRUCTION OF THIS PROJECT AND TO
DETAILS OF SHOP DRAWINGS AND TO THE ACCURACY OF
DIMENSIONS AND DIMENSIONS TO THE CENTER OF THE
MEMBER OR STRUCTURE CONSTRUCTED AND IS SUBJECT
TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
VERIFY ALL DIMENSIONS IN FIELD AND
COORDINATE WORK WITH ADJOINING TRADES.

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR38 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M148 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTH DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2

APPROVED
For Main Dimensions and Materials Only
SEP 17 2002
Robert E. Anderson
Engineer of Bridges and Traffic Structures

APPROVED
For Main Dimensions and Materials Only
SEP 17 2002
Robert E. Anderson
Engineer of Bridges and Traffic Structures

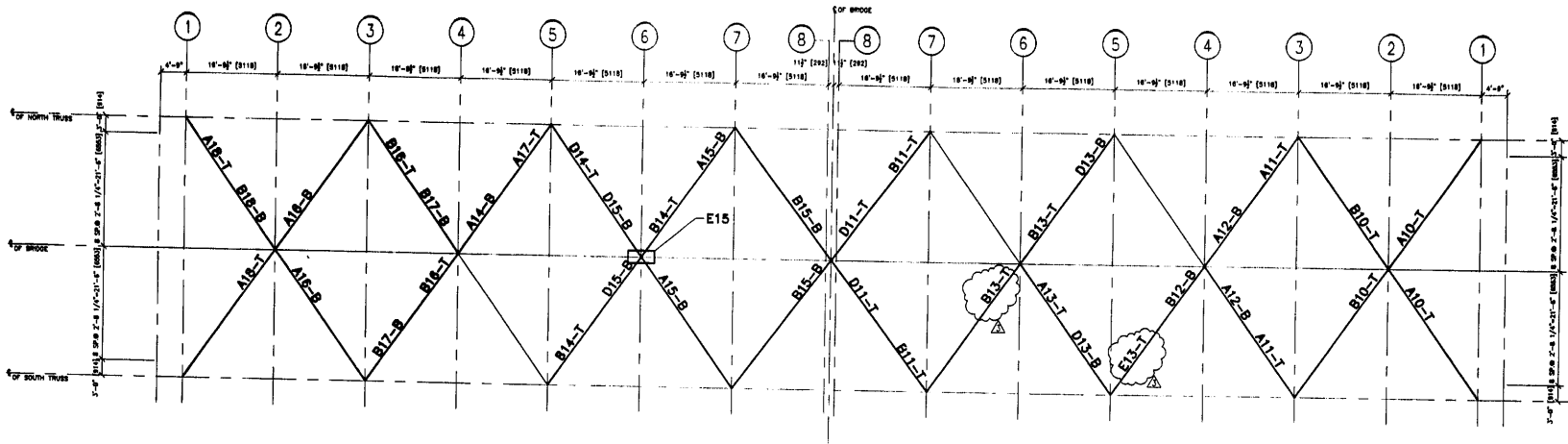
FIELD VERIFY ALL

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. CONTRACT DOCUMENTS, SPECIFICATIONS, AND THE FOR THE CONTRACT. THIS DRAWING IS TO BE USED FOR THE CONSTRUCTION OF THE PROJECT. THIS IS NOT TO BE USED FOR ANY OTHER PURPOSE. UNLESS NOTED TO THE CONTRARY, OR THE DRAWING, WHICH IS A PART OF THE CONTRACT, WHICH HAS THE APPROVAL OF THE ENGINEER OF BRIDGES AND TRAFFIC STRUCTURES. THESE DRAWINGS ARE TO BE USED FOR THE CONSTRUCTION OF THE PROJECT AND ARE NOT TO BE USED FOR ANY OTHER PURPOSE.		PAINT: INORGANIC ZINC RICH PRIMER WELD SIZE: 1/4" HOLES: 15/16" WELDS = E70XXI MATL = ASTM A 36 U.N. WIRE FOR SHIPMENT ALL LOOSE OLD ANGLES	
NOI BY:	REVISIONS:	DATE:	DRAWN BY: CAH
CAH	ADDED DRAIN CHANNELS	6/12/02	CAH
CAH	ISSUED FOR APPROVAL	7/2/02	CHECKED BY:
CAH	RE-ISSUED FOR APPROVAL	8/14/02	DATE:
CAH			APPROVED:

D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1408 S.D. BROADWAY
COAL CITY, ILLINOIS 60418

SHEET TITLE	ERECTION PLAN		JOB NO:
STRUCTURE	BRIDGE REHABILITATION		SHEET NO:
LOCATION	F.A.P. ROUTE 112 (ALUMS ST BRY STREET) SECTION M-2-DR-4-1-1		E3
ENGINEER	PARSONS BRINCKERHOFF		
	STRUCTURE # 099-9901		

SCALE: 3/16"=1' REF. SHEET NO. 15



PLAN

APPROVED
For Main Dimensions and
Materials Only
SEP 17 2012
Ralph E. Anderson
Engineer of Bridges and Traffic Structures

APPROVED
For Main Dimensions and
Materials Only
SEP 11 2012
Ralph E. Anderson
Engineer of Bridges and Traffic Structures

REVIEWED
 NO EXCEPTION TAKEN
 MAKE CORRECTIONS AS NOTED
PARSONS BRINCKERHOFF
GUYRE & DOUGLAS, INC.
SEP 11 2012
J. J. [Signature]

FELD VERIFY ALL

GENERAL NOTES
PROVIDE WORK WITH ADJOINING TRADES.

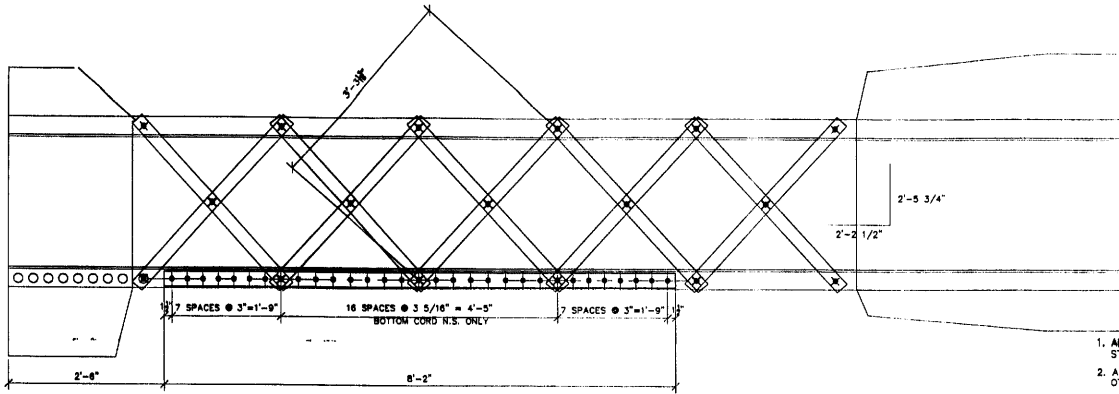
- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR56 UNLESS NOTED OTHERWISE.
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C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2

SCALE: 1"=10' REF. SHEET NO. 35

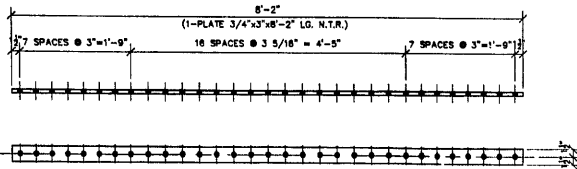
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. IF YOU HAVE ANY COMMENTS, CONTACT THE ENGINEER OF BRIDGES AND TRAFFIC STRUCTURES AT THE OFFICE OF BRIDGES AND TRAFFIC STRUCTURES, 1488 S.D. BROADWAY, COAL CITY, ILLINOIS 60416. THIS IS THE RESPONSIBILITY OF THE ENGINEER.		PAINT: INORGANIC ZINC RICH PRIMER (WELD SIZE: 1/4") HOLES: 15/16" WELDS = E70XX (MATERIAL = ASTM A 36) U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	
NO. BY 1 GAH 2 GAH 3 GAH	REVISIONS ISSUED FOR APPROVAL RE-CHECKED FOR APPROVAL RE-REVIEWED PER COMMENTS	DATE 7/21/12 8/16/12 9/12/12	DRAWN BY: GAH DATE: 5/28/02 CHECKED BY: DATE:
		APPROVED:	

D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 S.D. BROADWAY
COAL CITY, ILLINOIS 60416

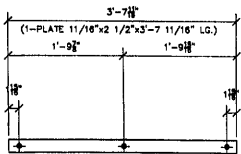
SHEET TITLE	ERECTION PLAN	JOB NO.
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	CONTRACT # 60193 PROJECT # C-91-368-98 EAP. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-4-1-1	SHEET NO:
ENGINEER	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF STRUCTURE # 099-9901	E4



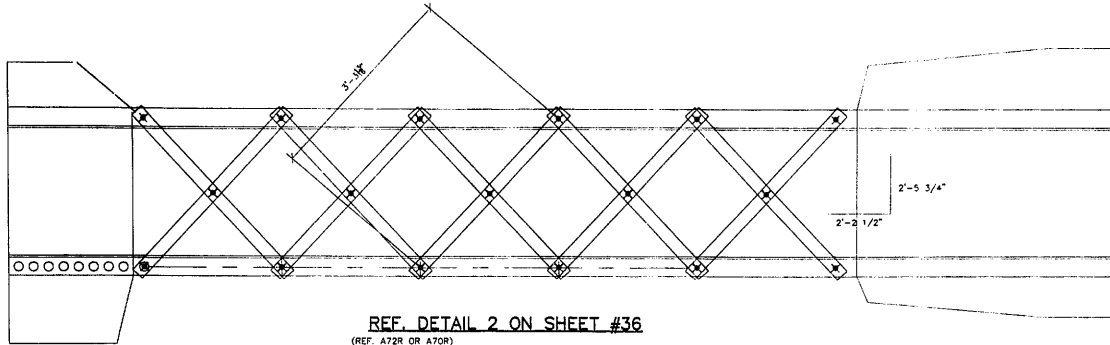
REF. DETAIL 1 ON SHEET #36
(REF. A15.)



ONE - SPLICE PLATE - A1



TEN - LACING BAR - B1



REF. DETAIL 2 ON SHEET #36
(REF. A72R OR A70R)

HOLES 15/16" VERIFY IN FIELD

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 808 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

APPROVED
For Main Contractor and Materials Only
SEP 11 2002
Robert L. Anderson
Engineer of Bridges and Traffic Structures

FIELD VERIFY ALL
APPROVED
For Main Contractor and Materials Only
SEP 11 2002
Robert L. Anderson
Engineer of Bridges and Traffic Structures

REVIEWED
 NO EXCEPTION TAKEN REJECTED
 MAKE CORRECTIONS AS NOTED PARSONS BRINCKERHOFF QUADRA-TECH, INC.
BY: J. Zuo 9/11/02
RE: BRIDGE TO INTERNAL IS UNDESIGNED AND TO BE DESIGNED AND PERMITTED BY THE ARCHITECT AND PUBLIC WORKS DEPARTMENT OF THE COUNTY OF ILLINOIS. ALL CONNECTIONS OF THE BRIDGE SHALL BE SUBJECT TO THE REQUIREMENTS OF THE ILLINOIS BRIDGE AND TRUSS CONSTRUCTION CODE AS MAY BE MODIFIED BY THE ILLINOIS BRIDGE AND TRUSS CONSTRUCTION CODE.
COORDINATE WORK WITH ADJOINING TRADES.

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4.	ONE	PLATE 3/4"x3"	8'-2"	A1	NTR
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8.	10	PLATE 11/16"x2 1/2"	3'-7 11/16"	B1	
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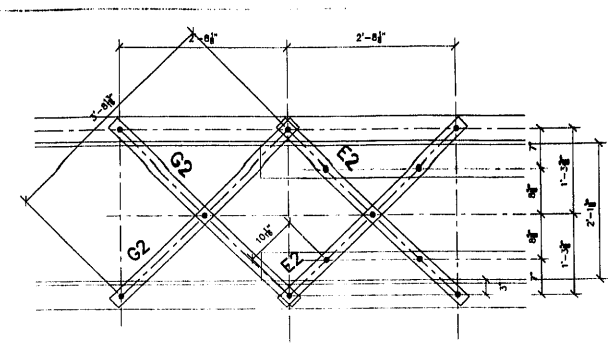
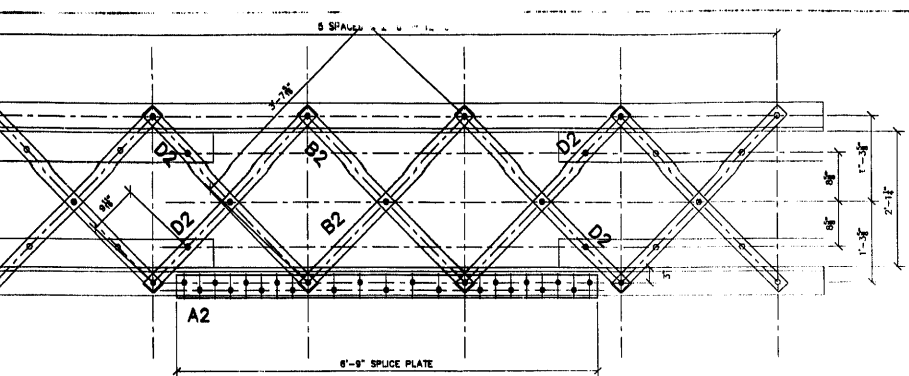
APPROVAL/REVIEW AUTHORITY:
PLEASE REVIEW THIS DRAWING CAREFULLY. IF YOU HAVE ANY COMMENTS, CONTACT THE ARCHITECT OR THE GENERAL CONTRACTOR. THE ARCHITECT'S OFFICE IS NOT RESPONSIBLE FOR THE ACCURACY OF THE DRAWING OR THE FIELD VERIFICATION OF THE DRAWING.
UNLESS THE CONTRACTOR HAS BEEN ADVISED BY THE ARCHITECT OR THE GENERAL CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF THE DRAWING.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF THE DRAWING.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF THE DRAWING.

PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" WELDS = E70XX (MAY BE ASTM A 36) U.N.
HOLES: 15/16" WELDS = E70XX (MAY BE ASTM A 36) U.N.
WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES

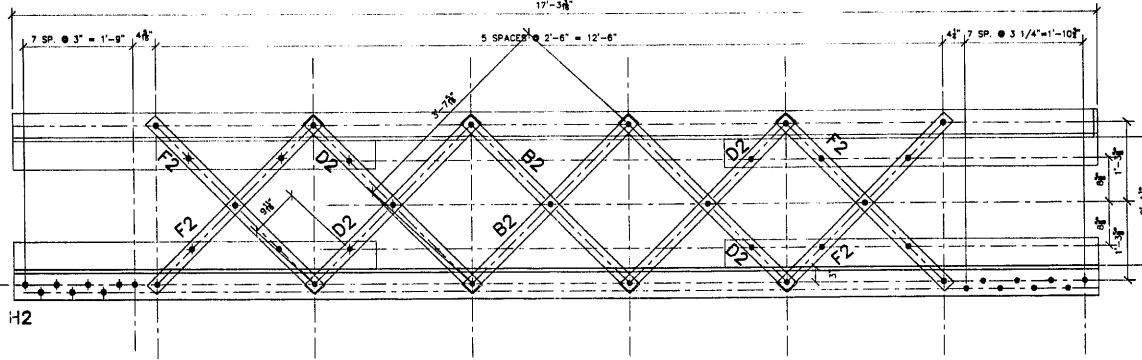
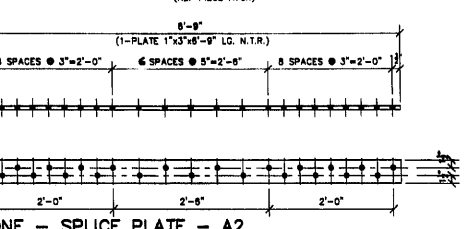
NO. BY: REVISIONS: DATE: DRAWN BY: GH
GH ISSUED FOR APPROVAL: 5/09/02
GH RE-ISSUED FOR APPROVAL: 9/10/02
CHECKED BY: DATE:
APPROVED:

D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

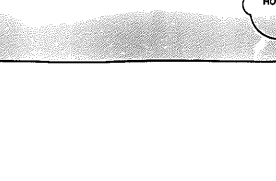
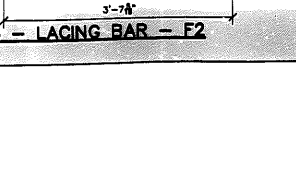
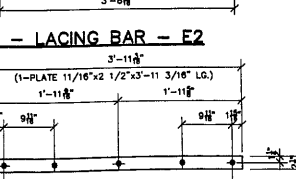
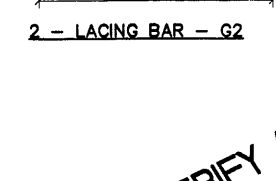
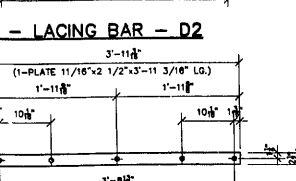
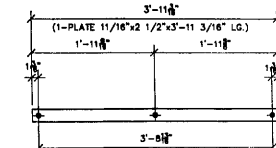
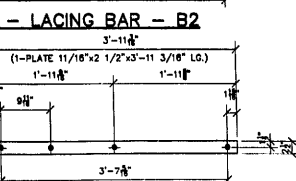
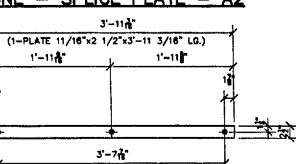
SHEET TITLE		REPAIR DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION		
LOCATION	CONTRACT # 80163 PROJECT # C-91-366-96		
ENGINEER	FAR. ROUTE 112 (LINDS 53 RUBY STREET) SECTION W-B-DR-4-1		
ARCHITECT	MILL COUNTY, ILLINOIS		
	PARSONS BRINCKERHOFF		
	STRUCTURE # 099-BB01		
			SHEET NO: 1



NO	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1					
2					
3					
4	ONE	PLATE 1"x4 1/2"	6'-9"	A2	NTR
5					
6					
7					
8	4	PLATE 11/16"x2 1/2"	3'-11 3/16"	B2	
9					
10					
11					
12	6	PLATE 11/16"x2 1/2"	3'-11 3/16"	D2	
13					
14					
15					
16	2	PLATE 11/16"x2 1/2"	3'-11 3/16"	E2	
17					
18					
19					
20	4	PLATE 11/16"x2 1/2"	3'-11 3/16"	F2	
21					
22					
23					
24	2	PLATE 11/16"x2 1/2"	3'-11 3/16"	G2	
25					
26					
27					
28	ONE	L 6"x6"x3/4"	17'-5"	H2	NTR
29					
30					



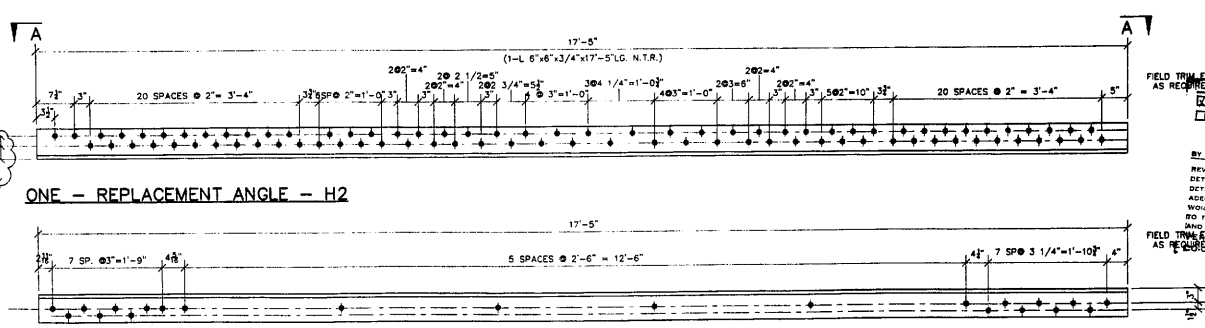
- GENERAL NOTES**
- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
 - ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR38 UNLESS NOTED OTHERWISE.
 - BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M148 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
 - STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
 - IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
 - CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
 - NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2



FIELD VERIFY

FIELD VERIFY ALL

HOLES 15/16" VERIFY IN FIELD



APPROVED
For Main Dimensions and Materials Only
SEP 17 2002
Richard E. Anderson
Supervisor of Bridges and Traffic Structures

REVIEWED
 NO EXCEPTION TAKEN
 MAKE CORRECTIONS AS NOTED
 REJECTED
PARSONS BRINCKERHOFF
QUALITY & DOUGLAS, INC.
BY J. [Signature]
DATE 9/3/02

REVIEW APPLICABLE TO SPECIAL ARRANGEMENTS AND TO DETAILS OF DESIGN NOT NOTED FOR THE ACCURACY OF DETAILS AND MATERIALS FOR THE STRUCTURE. APPROVED FOR THE ORIGINAL ARRANGEMENTS FOR THE WHOLE OF THE STRUCTURE. APPROVED FOR THE WHOLE OF THE STRUCTURE. APPROVED FOR THE WHOLE OF THE STRUCTURE. APPROVED FOR THE WHOLE OF THE STRUCTURE.

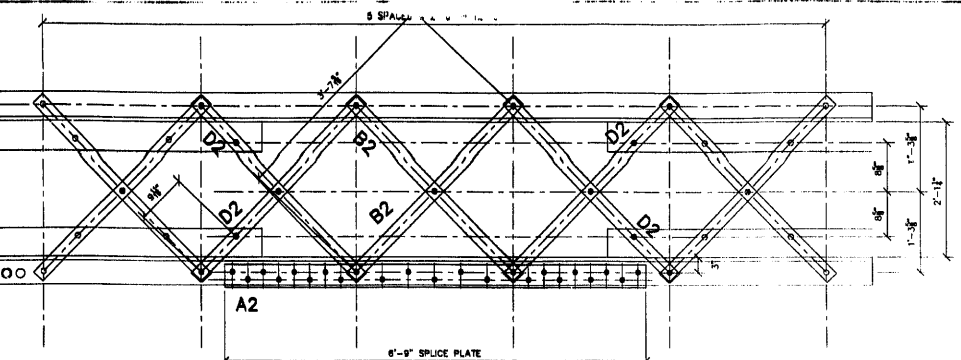
APPROVED
For Main Dimensions and Materials Only
SEP 11 2002
Richard E. Anderson
Supervisor of Bridges and Traffic Structures

APPROVAL / REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. REVISIONS TO BE MADE BY THE DESIGNER OR ENGINEER. REVISIONS TO BE MADE BY THE DESIGNER OR ENGINEER. REVISIONS TO BE MADE BY THE DESIGNER OR ENGINEER. REVISIONS TO BE MADE BY THE DESIGNER OR ENGINEER.	PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 } U.N WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	WELDS: 1/4" DATE: 6/04/02 DRAWN BY: GAH CHECKED BY: GAH DATE: 6/04/02 APPROVED: [Signature]
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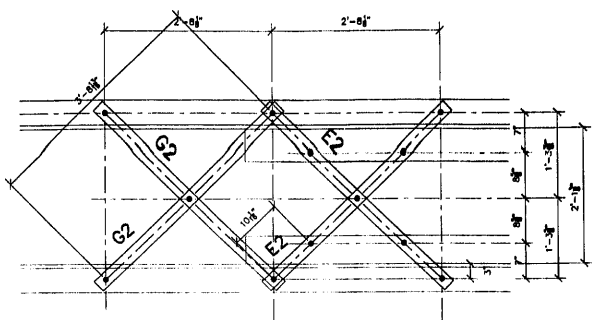
D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

ERECTION DWG. E2 SCALE: 1"=1'		
SHEET TITLE	REPAIR DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	
CONTRACT	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO:
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION N-B-DR-4-1	
ENGINEER	WILL COUNTY, ILLINOIS	
ARCHITECT	PARSONS BRINCKERHOFF	
	STRUCTURE # 099-9901	

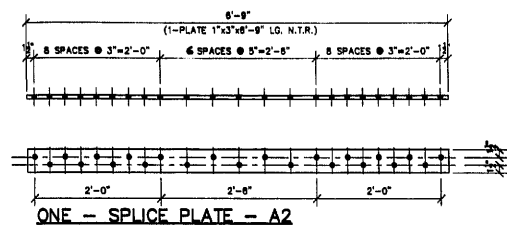
2



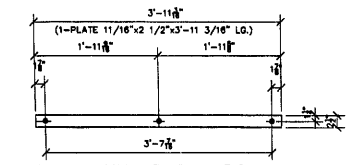
REF. DETAIL 1 ON SHEET #37 SECTION A-A
(REF PIECE A70R)



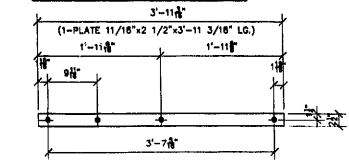
REF. DETAIL 1 ON SHEET #37 SECTION A-A
(REF PIECE A69R)



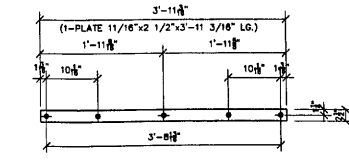
ONE - SPLICE PLATE - A2



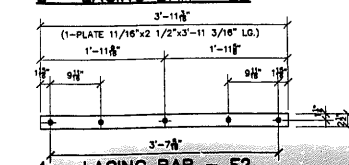
4 - LACING BAR - B2



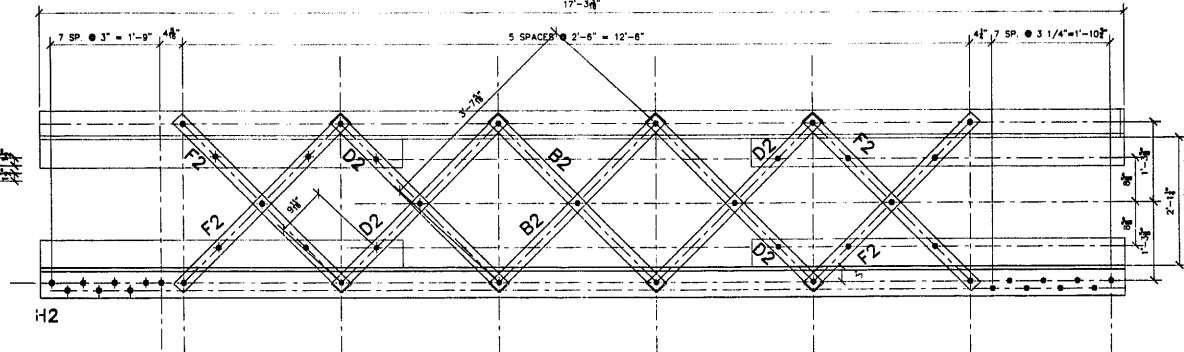
8 - LACING BAR - D2



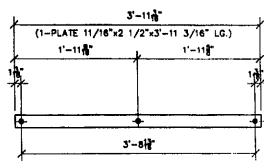
2 - LACING BAR - E2



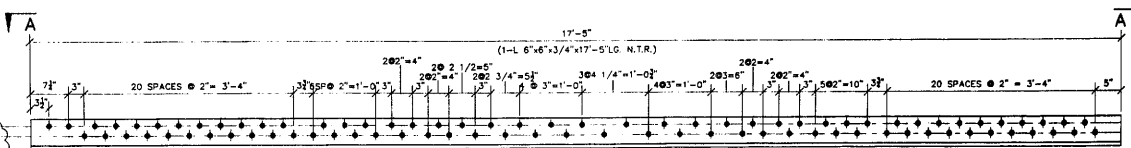
4 - LACING BAR - F2



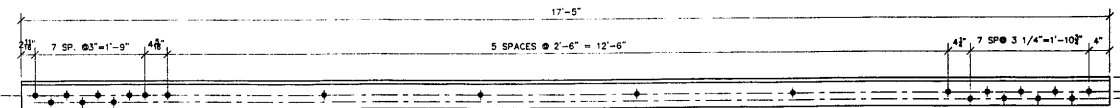
REF. DETAIL 1 ON SHEET #37 & SECTION A-A
(REF PIECE A70R)



2 - LACING BAR - G2



ONE - REPLACEMENT ANGLE - H2



SECTION A-A

NO	TOTAL	SHAPE	LENGTH	MARK	PLATE
1					
2					
3					
4	ONE	PLATE 1"x4 1/2"	8'-9"	A2	N
5					
6					
7					
8	4	PLATE 11/16"x2 1/2"	3'-11 3/16"	B2	
9					
10					
11					
12	8	PLATE 11/16"x2 1/2"	3'-11 3/16"	D2	
13					
14					
15					
16	2	PLATE 11/16"x2 1/2"	3'-11 3/16"	E2	
17					
18					
19					
20	4	PLATE 11/16"x2 1/2"	3'-11 3/16"	F2	
21					
22					
23					
24	2	PLATE 11/16"x2 1/2"	3'-11 3/16"	G2	
25					
26					
27					
28	ONE	L 6"x6"x3/4"	17'-5"	H2	N
29					
30					

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M148 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE 1 TO 2.5 MILS.
B. SHOP PRIME: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK M.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TO ZONE 2"

APPROVED
For Main Measurements and
Material Only
SEP 11 2002
Ralph E. Anderson
Engineer of Bridges and Traffic Structures

FIELD TRIM END AS REQUIRED
REVIEWED
NO CORRECTIONS
MAKE CORRECTIONS AS NOTED
PARSONS BRINCKERHOFF
QUALE & DOUGLAS, INC.
BY J. Zuo
REVIEW APPLIES TO GENERAL ARRANGING
DETAILS OF WORK AND NOT TO THE
ADDITIONAL WORK AND NOT TO THE
WORK OF THE CONTRACTOR
FIELD TRIM END AS REQUIRED
INDICATE WORK WITH ADJOINING

APPROVED
For Design and
Material Only
SEP 11 2002
Ralph E. Anderson
Engineer of Bridges and Traffic Structures

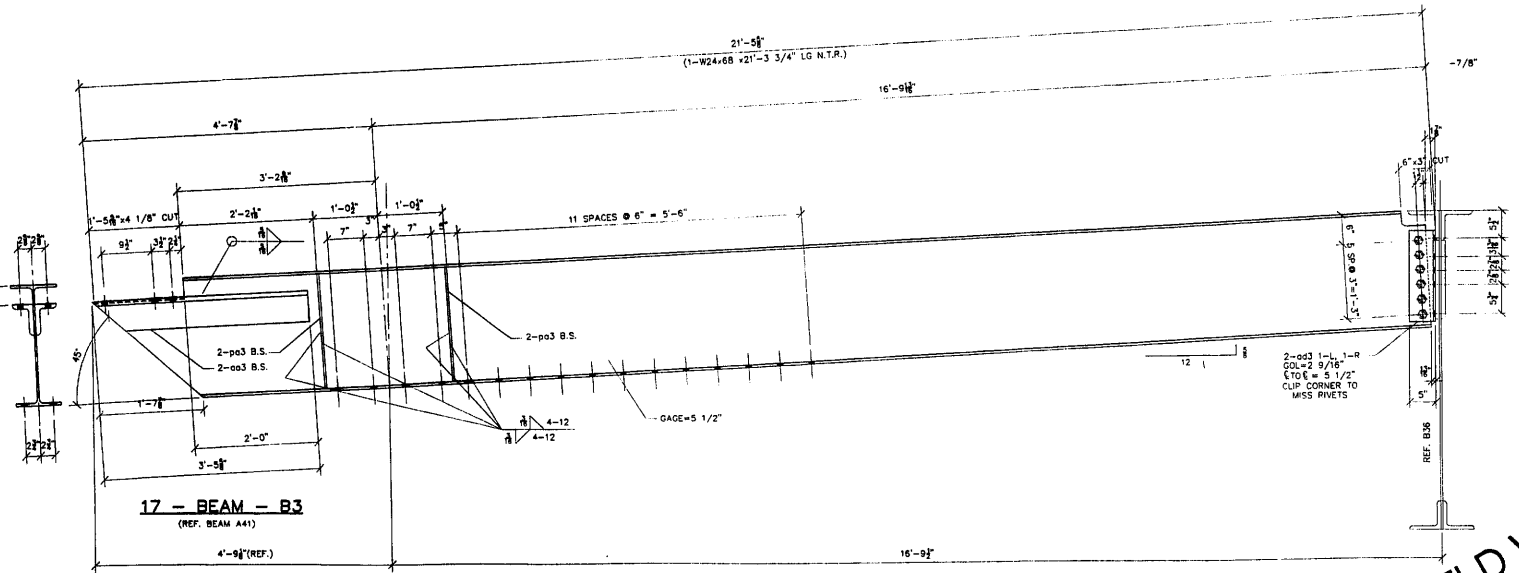
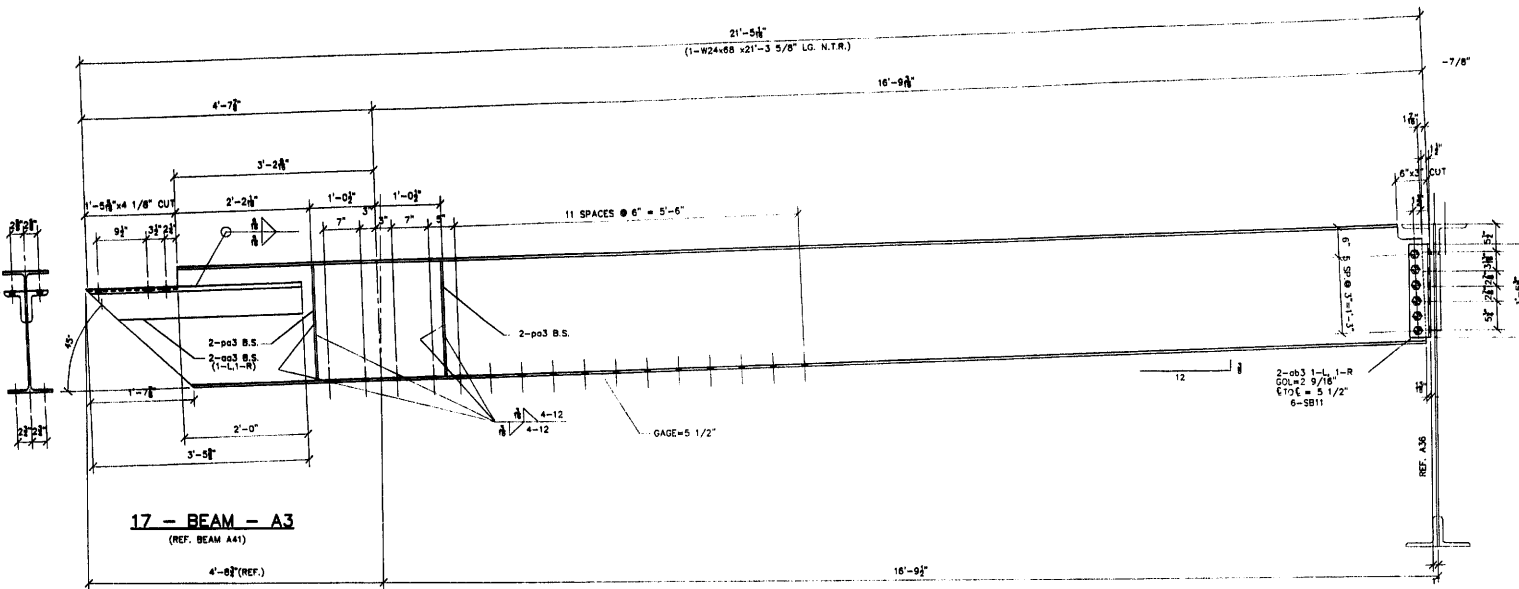
FIELD VERIFY ALL

HOLES 15/16" VERIFY IN FIELD

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE DIMENSIONS AND THE CONSTRUCTION OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE WORK AND THE PROTECTION OF THE ADJOINING WORK.	PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX MAT'L=ASTM A 36 WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	NO. BY REVISIONS DATE DRAWN BY: GAH 1 GAH ISSUED FOR APPROVAL 1/23/02 DATE: 6/04/02 2 GAH RE-ISSUED FOR APPROVAL 9/14/02 CHECKED BY: DATE: APPROVED:
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D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60418

ERECTION DWG. E2 SCALE: 1"=1'		JOB NO:
SHEET TITLE	REPAIR DETAILS	
STRUCTURE	BRIDGE REHABILITATION	SHEET N
LOCATION	CONTRACT # 80193 PROJECT # C-91-368-96	
ENGINEER	FAR. ROUTE 112 (ILLINOIS 53 BR) STREET SECTION N-B-0R-4-I-1	
ARCHITECT	MILL COUNTY, ILLINOIS	
	PARSONS BRINCKERHOFF	
	STRUCTURE # 099-8901	



NO.	QTY	DESCRIPTION	SIZE	GRADE	REMARKS
1.					
2.					
3.					
4.					
5.					
6.					
7.	17	W24x68	21'-3 5/8"	A3	NTR
8.	17	L 6"x4"x7/8"	3'-5 5/8"	003	NTR
9.	17	L 5"x5"x3/8"	1'-6 3/8"	003	003
10.	68	PLATE 3/8"x3 1/4"	1'-10 1/2"	003	
11.	102	7/8" A325 BOLTS	0'-2 3/4"	SB11	
12.					
13.					
14.					
15.	17	W24x68	21'-3 5/8"	B5	NTR
16.	17	L 6"x4"x7/8"	3'-5 5/8"	003	
17.	17	L 5"x5"x3/8"	1'-6 3/8"	003	CLIP
18.	68			003	
19.	102			SB11	
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APPROVED
For Main Dimensions and
Materials Only
SEP 17 2002
Ralph E. Williams
Designer of Bridges and Traffic Structures

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHENING ZONE 2"

REVIEWED
 NO EXCEPTION TAKEN ACCEPTED
 MAKE CORRECTIONS TO NOTES
PARSONS BRINCKERHOFF
GUALDE & DUGLAS, INC.
SEP 11 2002

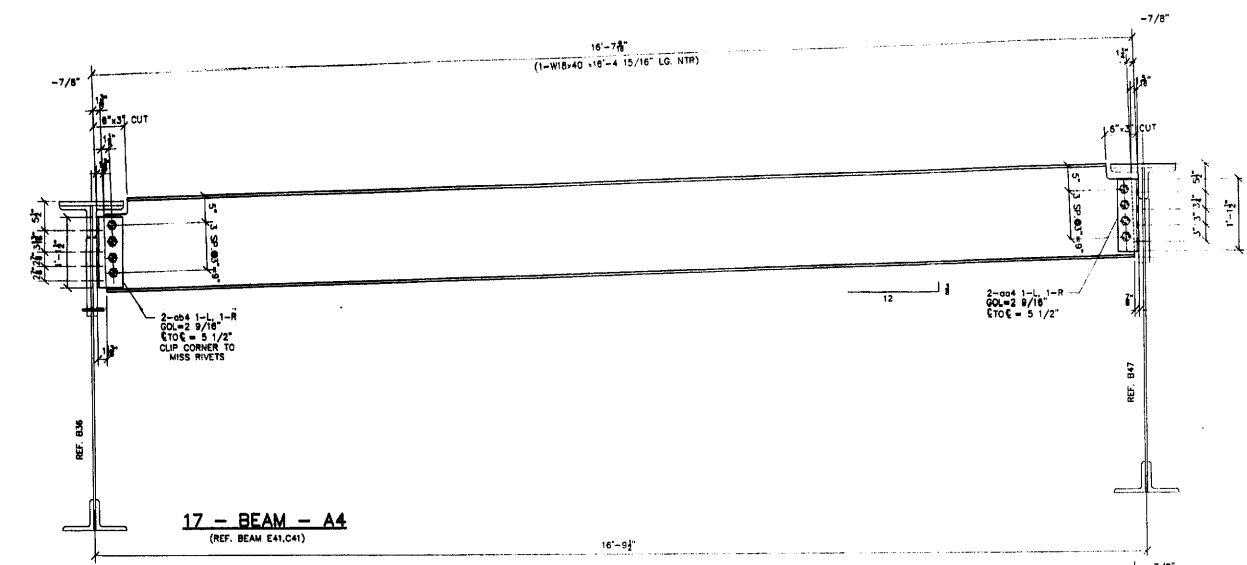
APPROVED
For Main Dimensions and
Materials Only
SEP 11 2002
Ralph E. Williams
Designer of Bridges and Traffic Structures

FIELD VERIFY ALL

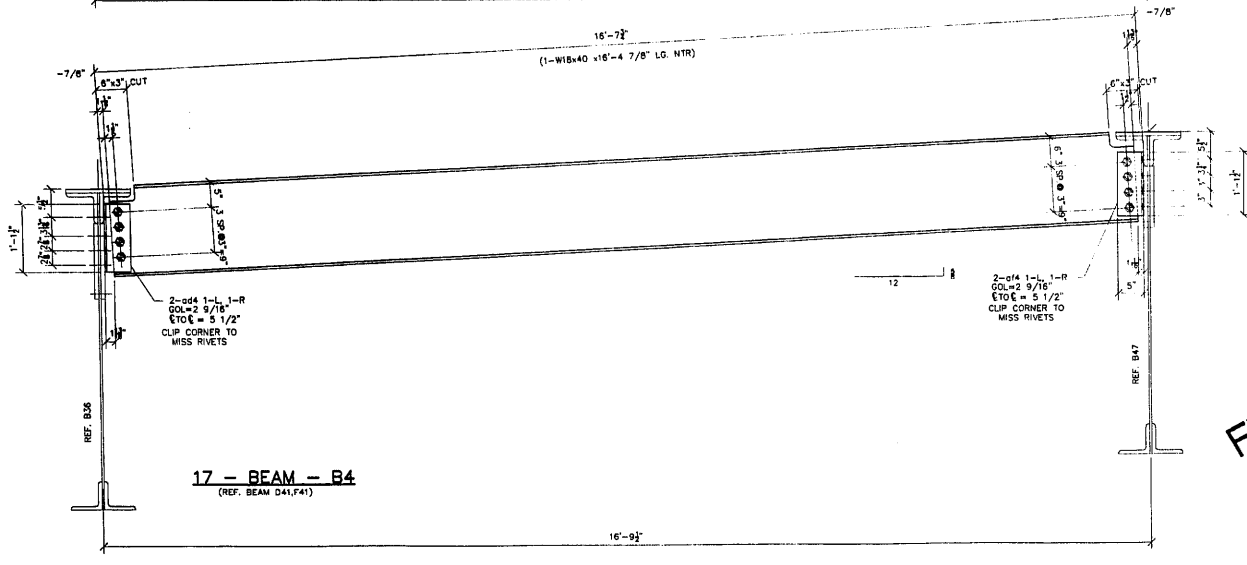
APPROVAL/REVIEW AUTHORITY:		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4"	
PLEASE REVIEW THIS DRAWING CAREFULLY.		HOLES: 15/16" WELDS = E70XX NAT'L = ASTM A 36	
FOR THE CONTRACTOR'S INFORMATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES TO REMAIN.		WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	
NO. BY	REVISIONS	DATE	DRAWN BY: CAH
1	ISSUED FOR APPROVAL	7/2/02	CHECKED BY: CAH
2	ISSUED FOR APPROVAL	6/03/02	DATE:
3			APPROVED:

D CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

ERECTION DWG.	SCALE: 1"=1'	JOB NO:
SHEET TITLE	BEAM DETAILS	
STRUCTURE	BRIDGE REHABILITATION	SHEET NO:
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96	
ENGINEER	F&P ROUTE 112 (ILMOIS ST RUBY STREET) SECTION M-B-BR-4-1-1	
ARCHITECT	WILL COUNTY, ILLINOIS	
	PARSONS BRINCKERHOFF	
	STRUCTURE # 099-9501	



17 - BEAM - A4
(REF. BEAM E41,C41)



17 - BEAM - B4
(REF. BEAM D41,F41)

NO.	QUANTITY	DESCRIPTION	LENGTH	GRADE	REMARKS
1.					
2.					
3.					
4.					
5.					
6.					
7.	17	W18x40	16'-4 15/16"	A4	NTR
8.	17	L 8"x5"x3/8"	1'-1 1/2"	004	CLIP
9.	17	L 8"x5"x3/8"	1'-1 1/2"	004	CLIP
10.	136	7/8" A325 BOLTS	0'-2 3/4"	SB11	
11.					
12.					
13.					
14.	17	W18x40	16'-4 7/8"	B4	NTR
15.	17	L 8"x5"x3/8"	1'-1 1/2"	004	CLIP
16.	17	L 8"x5"x3/8"	1'-1 1/2"	004	CLIP
17.	136				SB11
18.					
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APPROVED
For Main Dimensions and
Material Only
SEP 17 2002
Ralph C. Anderson
Engineer of Bridges and Traffic Structures

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2

FIELD VERIFY ALL

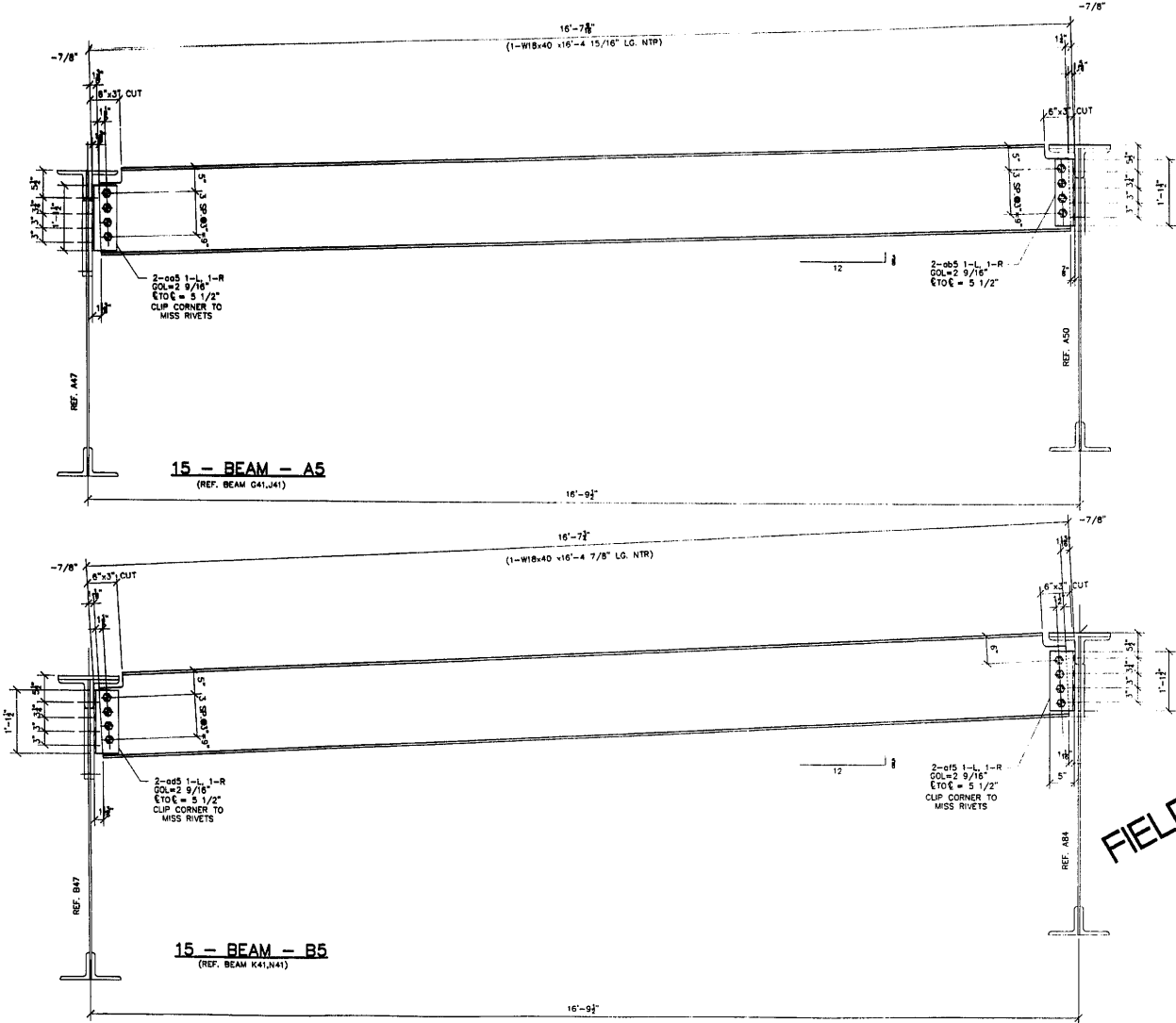
REVIEWED
NO EXCEPTION TAKEN SELECTED
MAKE CONNECTIONS AS SHOWN PARSONS BRINCKERHOFF
QUADE & DUNGLAS, INC.
BY J. Z. 2440 DATE 9/3/02
REVIEWER'S TO GENERAL APPROVEMENT AND TO
DETAILS OF DESIGN FOR THE OCCUPANCY OF
DETAILS AND REVISIONS FOR THE STRUCTURAL
APPROVAL AND FINISHES MUST BE IN ACCORDANCE OF THE
WORK AND REQUIREMENTS CONTRACTORS AND IN SUBJECT
TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS
VERIFY ALL DIMENSIONS IN FIELD AND
CO-ORDINATE WORK WITH ADJOINING TRADES,

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. I HEREBY APPROVE THIS DRAWING FOR THE CONSTRUCTION OF THE PROJECT AND I AM NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY OCCUR IN THE FIELD OR IN THE FUTURE DUE TO THE NEGLIGENCE OF THE DESIGNER OR FABRICATOR. DATE: 6/03/02 SIGNATURE: [Signature]	PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX (MAY BE ASTM A 36) U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES NO. BY REVISIONS DATE DRAWN BY: CAH CAH ISSUED FOR APPROVAL 6/03/02 CAH RE-ISSUED FOR APPROVAL 6/03/02 CHECKED BY: [Signature] DATE: [Signature] APPROVED: [Signature]
--	--

D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE	BEAM DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	SHEET NO:
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96 F.A.P. ROUTE #12 (ILLINOIS 53 RUBY STREET) SECTION W-8-DR-4-1-1	4
ENGINEER	PARSONS BRINCKERHOFF	
ARCHITECT	STRUCTURE # 099-0001	

ERECTION DWG. E1 SCALE: 1"=1'



#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.					
3.					
4.					
5.					
6.					
7.	15	W18x40	16'-4 15/16"	A5	NTR
8.	15	L 5x5x3/8	1'-1 1/2"	005	CLIP
9.	15	L 5x5x3/8	1'-1 1/2"	005	
10.	120	7/8" A325 BOLTS	0'-2 3/4"	S811	
11.					
12.					
13.					
14.	15	W18x40	16'-4 7/8"	B5	NTR
15.	15	L 5x5x3/8	1'-1 1/2"	005	CLIP
16.	15	L 5x5x3/8	1'-1 1/2"	015	CLIP
17.	120			S811	
18.					
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APPROVED
For Main Dimensions and
Materials Only
SEP 17 2002
Ralph E. Anderson
Contractor of Bridges and Traffic Structures

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MIL.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

FIELD VERIFY ALL

APPROVED
For Main Dimensions and
Materials Only
SEP 17 2002
Ralph E. Anderson
Contractor of Bridges and Traffic Structures

REVIEWED

NO EXCEPTION TAKEN REJECTED

MAKE CORRECTIONS AS NOTED APPROVED

PARSONS BRINCKERHOFF
GRADE & CIVIL/SLURRY INC.

BY: *J. [Signature]* DATE: 9/3/02

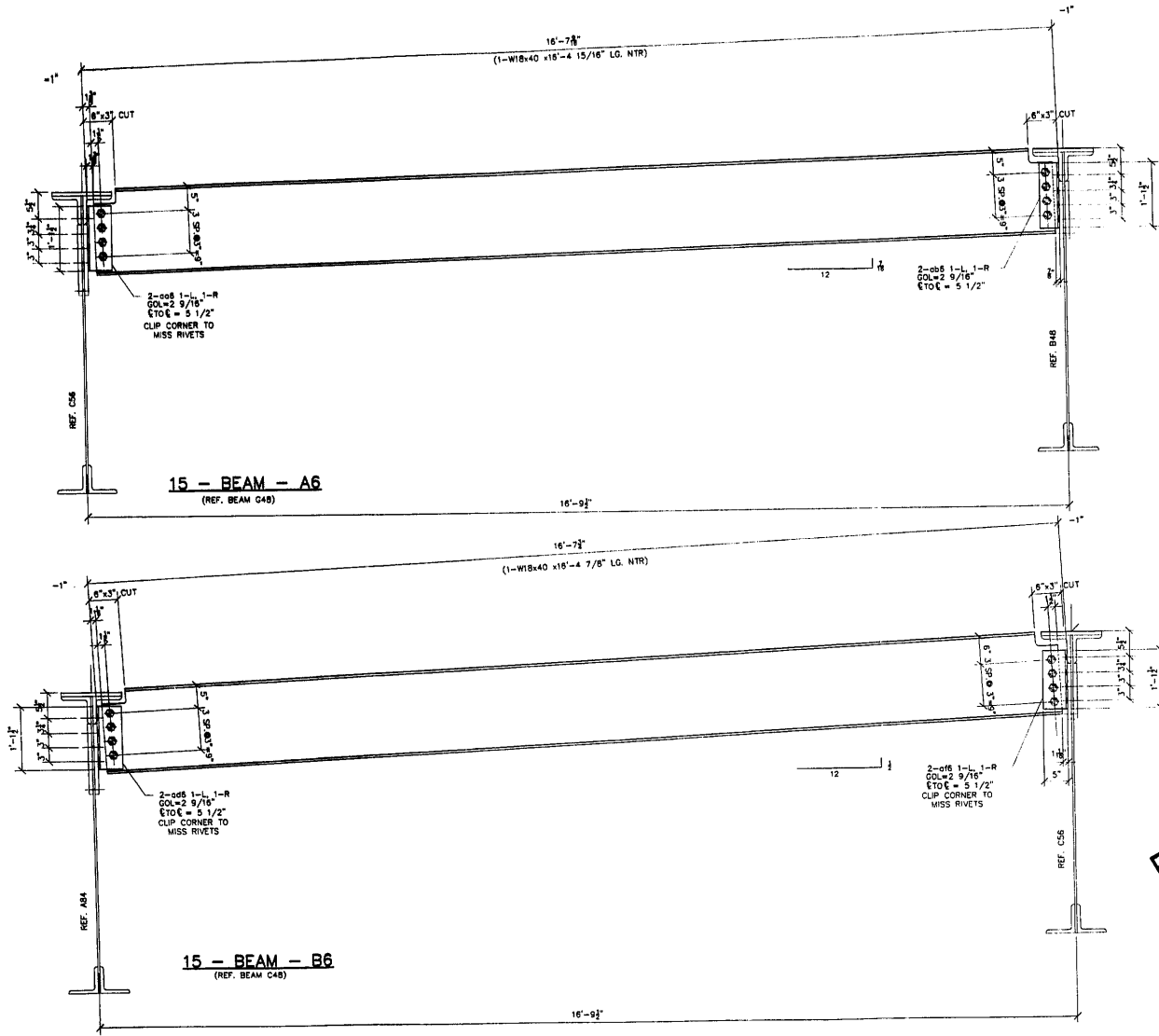
REVIEW APPLIES TO GENERAL DIMENSIONS ONLY TO DETAILS OF DESIGN SEE NOTES TO THE DRAWING FOR DETAILS AND DIMENSIONS FOR ALL STRUCTURAL FABRICITY AND FUNCTIONALITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND COORDINATE WORK WITH ADJOINING TRADES.

ERECTION DWG. E1 SCALE: 1"=1'

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. IF REVISIONS ARE REQUIRED, NOTIFY THE CONTRACTOR IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS SHOWN ON THIS DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND COORDINATE WORK WITH ADJOINING TRADES. APPROVED: _____ DATE: _____	PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX MATL=ASTM A36 WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	U.N. NO. BY _____ REVISIONS _____ DATE DRAWN BY: GAH 1/1/02 GAH ISSUED FOR APPROVAL 7/20/02 DATE: 6/03/02 GAH REVISED QUANTITIES 9/6/02 CHECKED BY: GAH RE-ISSUED FOR APPROVAL 9/16/02 DATE: APPROVED: _____
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D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE	BEAM DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	SHEET NO:
LOCATION	CONTRACT # 0913 PROJECT # C-91-386-96 F.A.P. ROUTE 112 (ILLINOIS 53 RIBBY STREET) SECTION 14-8-IN-4-1-1 MILL COUNTY, ILLINOIS	5
ENGINEER	PARSONS BRINCKERHOFF	
ARCHITECT	STRUCTURE # 099-0901	



1.				
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6.				
7.	15	W18x40	16'-4 15/16"	A6 NTR
8.	15	L 5"x5"x3/8"	1'-1 1/2"	od6 CLIP
9.	15	L 5"x5"x3/8"	1'-1 1/2"	od6 CLIP
10.	120	7/8" A325 BOLTS	0'-2 3/4"	S811
11.				
12.				
13.				
14.	15	W18x40	16'-4 7/8"	B6 NTR
15.	15	L 5"x5"x3/8"	1'-1 1/2"	od6 CLIP
16.	15	L 5"x5"x3/8"	1'-1 1/2"	od6 CLIP
17.	120			S811
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APPROVED
For Main Contractor and
Materials Only
SEP 17 2002
Ralph L. Anderson
Engineer of Design and Traffic Structures

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS" ZONE 2"

FIELD VERIFY ALL

REVIEWED

NO EXCEPTION TAKEN APPROVED
 MAKE CONNECTIONS AS SHOWN
 PARSONS BRINCKERHOFF
 QUADE & DOUGLAS, INC.
 BY: J. [Signature] DATE: 9/3/02

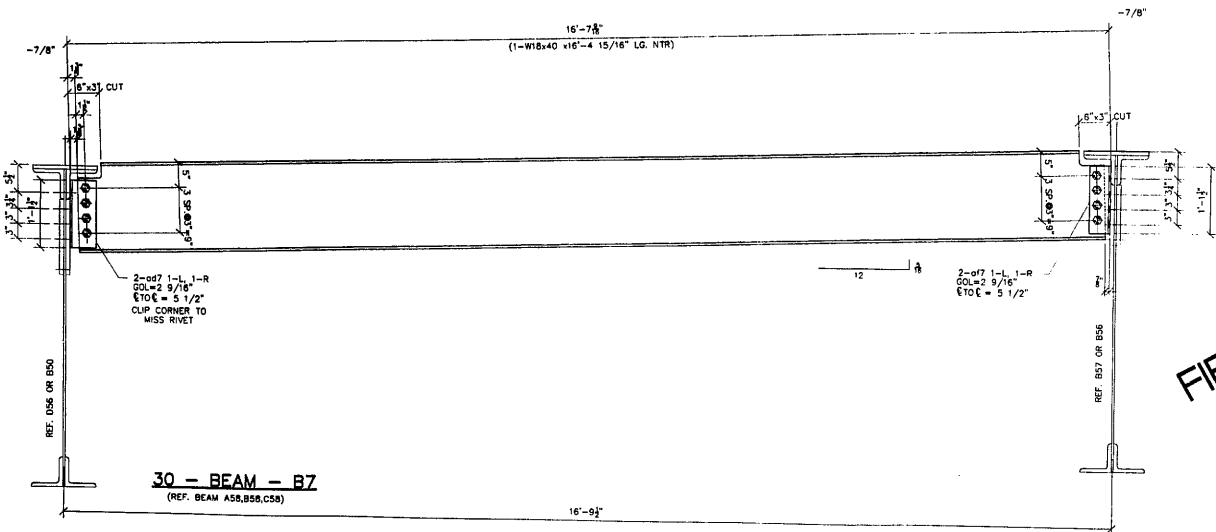
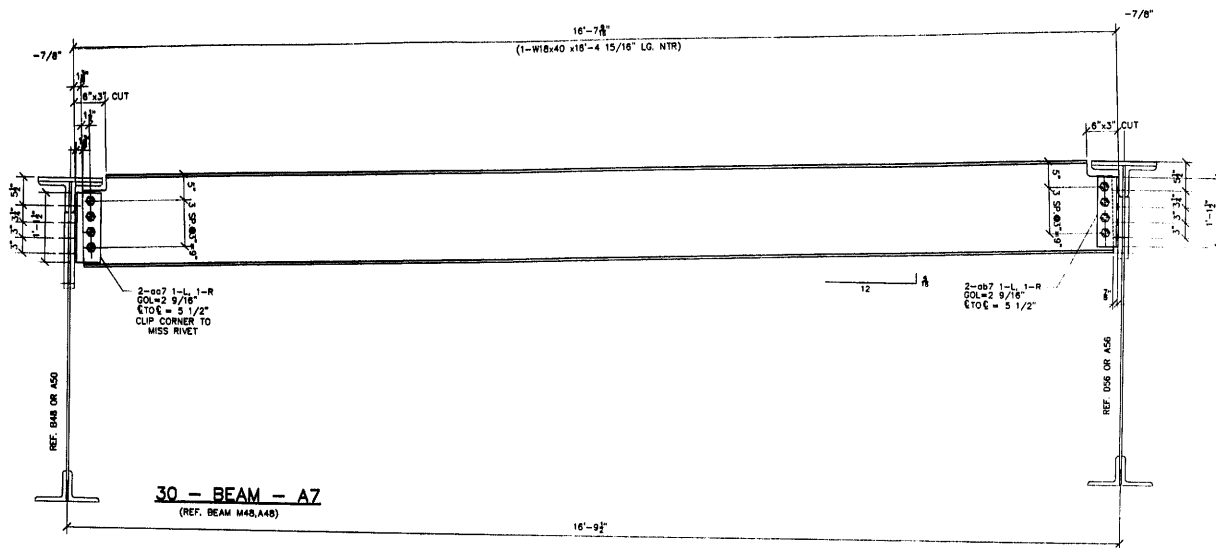
APPROVED
For Main Contractor and
Materials Only
SEP 11 2002
Ralph L. Anderson
Engineer of Design and Traffic Structures

ERECTION DWG. E1 SCALE: 1"=1'

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. I HEREBY CERTIFY THAT THE INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I AM A REGISTERED PROFESSIONAL ENGINEER AND I AM NOT PROVIDING ANY SERVICES OTHER THAN THOSE FOR WHICH I AM REGISTERED AND LICENSED TO PROVIDE. I AM NOT PROVIDING ANY SERVICES OTHER THAN THOSE FOR WHICH I AM REGISTERED AND LICENSED TO PROVIDE.	PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX (MATERIAL ASTM A 36) } U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
NO. BY REVISIONS DATE DRAWN BY: GAH	DATE: 5/03/02
GAH ISSUED FOR APPROVAL 7/23/02	CHECKED BY:
GAH REVISED QUANTITIES 8/16/02	DATE:
GAH ISSUED FOR APPROVAL 8/17/02	DATE:
APPROVED:	



SHEET TITLE	BEAM DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	SHEET NO:
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96 F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-4-1-1	6
ENGINEER	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF	
ARCHITECT	STRUCTURE # 099-9901	



#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.					
3.					
4.					
5.					
6.					
7.	30	W18x40	16'-4 15/16"	A7	NTR
8.	30	L 5 x 5 x 3/8"	1'-1 1/2"	ad7	CLIP
9.	30	L 5 x 5 x 3/8"	1'-1 1/2"	ad7	
10.	240	7/8" A325 BOLTS	0'-2 3/4"	SB11	
11.					
12.					
13.					
14.	30	W18x40	16'-4 15/16"	B7	NTR
15.	30	L 5 x 5 x 3/8"	1'-1 1/2"	ad7	CLIP
16.	30	L 5 x 5 x 3/8"	1'-1 1/2"	ad7	
17.	240			SB11	
18.					
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APPROVED
For Main Dimensions and
Materials Only

SEP 17 2002

Ralph E. Anderson
Principal of Bridges and Traffic Structures

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS W148 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
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- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

REVIEWED

NO EXCEPTION TAKEN REJECTED

MAKE CONNECTIONS AS NOTED

PARSONS BRINCKERHOFF

CLAUDE & DOUGLASS, INC.

BY: J. 240 DATE: 9/3/02

REVIEW APPROVED TO GENERAL DIMENSIONS AND TO DETAILS OF DESIGN BUT NOT TO THE ACCURACY OF DETAILS AND DIMENSIONS NOT TO THE STRUCTURAL ACCURACY AND PARTICULAR FOR DETAILS OF THE WORK OR STRUCTURES CONSTRUCTION AND IN SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND SUCH CONNECTIONS AS MAY BE NOTED HEREON. VERIFY ALL DIMENSIONS IN FIELD AND CO-ORDINATE WORK WITH ADJOINING TRADES.

APPROVED
For Main Dimensions and
Materials Only

SEP 11 2002

Ralph E. Anderson
Principal of Bridges and Traffic Structures

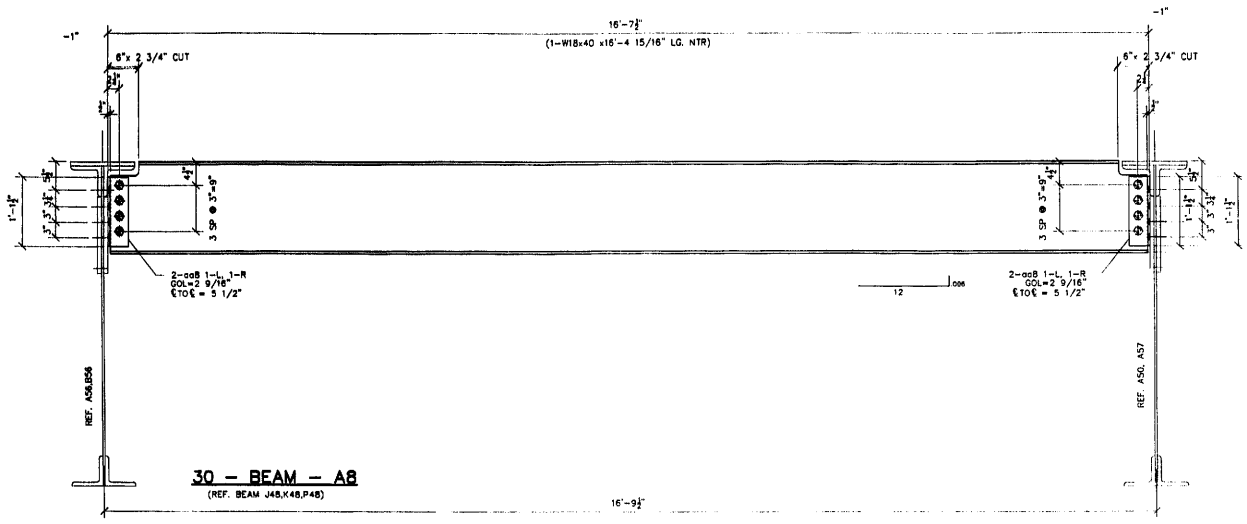
FIELD VERIFY ALL

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. APPROVED DIMENSIONS AND MATERIALS ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND MATERIALS IN THE FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS AND MATERIALS IN THE FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS AND MATERIALS IN THE FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS AND MATERIALS IN THE FIELD.	PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" WELDS = E70XX1 MATL=ASTM A 50 WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	WELDS: 1/4" U.N.
NO. BY REVISIONS DATE DRAWN BY: GAH	GAH ISSUED FOR APPROVAL 7/30/02 DATE: 6/03/02	
GAH REVISED QUANTITIES 8/6/02 CHECKED BY:	GAH RE-ISSUED FOR APPROVAL 8/16/02 DATE:	
	APPROVED:	

PD CONSTRUCTION, INC.
GENERAL CONTRACTOR
1489 SO. BROADWAY
COAL CITY, ILLINOIS 60418

ERECTOR DWG. SCALE: 1"=1'		
SHEET TITLE	BEAM DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO:
ENGINEER	F.A.P. ROUTE 112 (LINDS 53 RUBY STREET) SECTION II-9-DR-4-1	
ARCHITECT	WILL COUNTY, ILLINOIS	
	PARSONS BRINCKERHOFF	
	STRUCTURE # 099-8901	

7



30 - BEAM - AB
(REF. BEAM J48,K48,P48)

1				
2				
3				
4				
5				
6				
7	30	W18x40	16'-4 15/16"	AB NTR
8	10	L 4"x4"x3/8"	1'-1 1/2"	008
9	240	7/8" A325 BOLTS	0'-2 3/4"	SB11
10				
11				
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APPROVED
For Max. Dimensions and Materials Only
SEP 17 2004
Ralph E. Anderson
Engineer of Bridge and Traffic Structures

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
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 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

FIELD VERIFY ALL

REVIEWED

NO EXCEPTION TAKEN REJECTED
 MAKE CORRECTIONS AS NOTED PARSONS BRINCKERHOFF
 QUADE & DOUGLAS, INC.
 BY: J. 240 DATE: 9/3/02

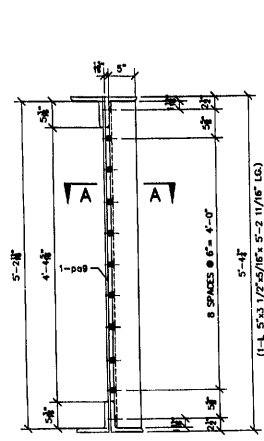
APPROVED
For Max. Dimensions and Materials Only
SEP 11 2004
Ralph E. Anderson
Engineer of Bridge and Traffic Structures

ERECTION DWG. E1 SCALE: 1"=1'

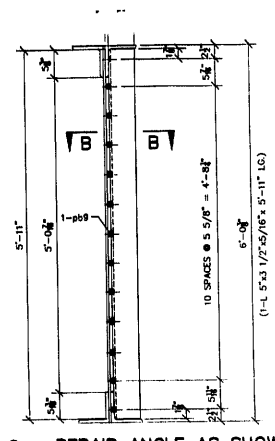
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY FOR CONFORMANCE WITH THE STANDARD SPECS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS AND MATERIALS SHOWN ON THIS DRAWING. THIS IS THE RESPONSIBILITY OF THE USER. NO. BY REVISIONS DATE DRAWN BY: GH NO. BY REVISIONS DATE: 6/03/02 GH ISSUED FOR APPROVAL 1/24/02 GH REVISED QUANTITIES 6/26/02 GH RE-ISSUED FOR APPROVAL 8/18/02 APPROVED:	PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 } U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	WELDS: 1/4" MATL=ASTM A 36 } U.N.
--	---	--------------------------------------



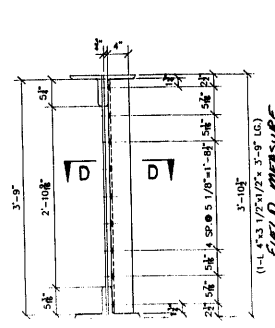
SHEET TITLE	BEAM DETAILS	JOB NO.
STRUCTURE	BRIDGE REHABILITATION CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO.
LOCATION	FAP. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-4-1-1	8
ENGINEER	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF	
ARCHITECT	STRUCTURE # 099-9901	



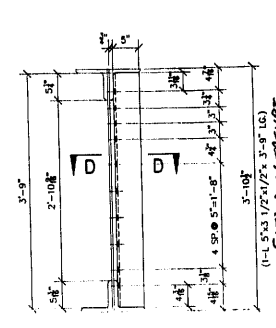
4 - REPAIR ANGLE AS SHOWN - A9
ONE - REPAIR ANGLE OPPOSITE - B9
REFERENCE SHEET # 23 SECTION A-A



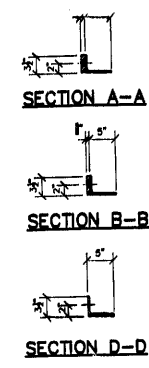
9 - REPAIR ANGLE AS SHOWN - D9
2 - REPAIR ANGLE OPPOSITE - E9
REFERENCE SHEET # 23 SECTION B-B



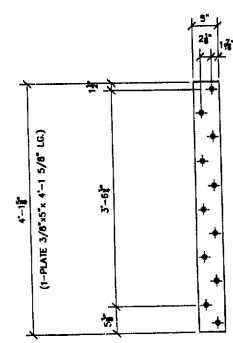
21 - REPAIR ANGLE AS SHOWN - F9
36 - REPAIR ANGLE OPPOSITE - G9
REFERENCE SHEET # 23 SECTION C-C



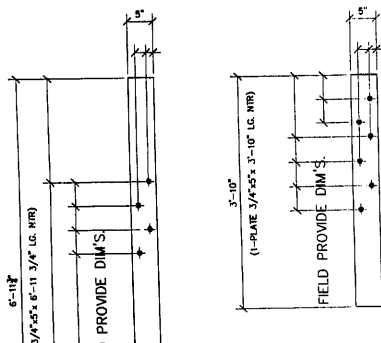
5 - REPAIR ANGLE AS SHOWN - H9
ONE - REPAIR ANGLE OPPOSITE - K9
REFERENCE SHEET # 23 SECTION D-D



1.	4	L 5"x3 1/2"x5/16"	5'-2 11/16"	A9
2.	4	PLATE 13/16"x3 1/2"	4'-4 1/4"	pb9
4.				
5.	ONE	L 5"x3 1/2"x5/16"	5'-2 11/16"	B9
6.	ONE			pb9
7.				
8.	9	L 5"x3 1/2"x5/16"	5'-11"	D9
9.	9	PLATE 5/8"x3 1/2"	5'-0 3/8"	pb9
10.				
11.	2	L 5"x3 1/2"x5/16"	5'-11"	E9
12.	2			pb9
13.				
14.	21	L 4"x3 1/2"x1/2"	3'-9"	F9
15.				
16.	36	L 4"x3 1/2"x1/2"	3'-9"	G9
17.				
18.	5	L 5"x3 1/2"x5/16"	3'-9"	H9
19.				
20.	ONE	L 5"x3 1/2"x5/16"	3'-9"	K9
21.				
22.	6	PLATE 3/8"x5"	4'-1 5/8"	N9*
23.				
24.	ONE	PLATE 3/4"x5"	6'-11 3/4"	P9*
25.				NTR
26.	ONE	PLATE 1/2"x14"	48'-8"	R9*
27.				NTR
28.	ONE	PLATE 1/2"x14"	19'-3 1/4"	T9*
29.				NTR
30.	4	MC18x45.8	6'-3 1/4"	V9
				NTR

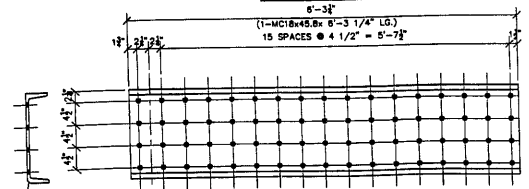


6 - REPAIR KNEE BRACE - N9*
REFERENCE SHEET # 15 SECTION A-A-B-B-D-D
LOCATE ON E3

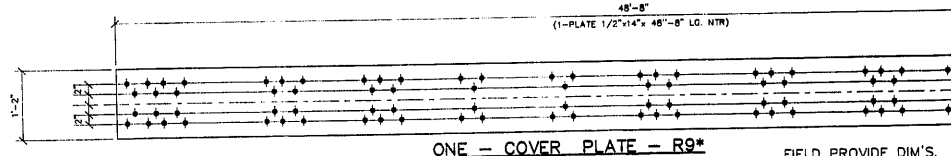


ONE - REPAIR SPLICE PLATE - W9*
REFERENCE SHEET # 15 SECTION C-C, E-E

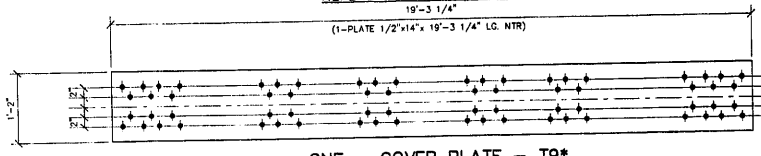
ONE - REPAIR SPLICE PLATE - P9*
REFERENCE SHEET # 15 SECTION C-C



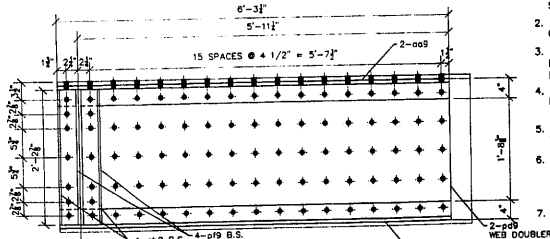
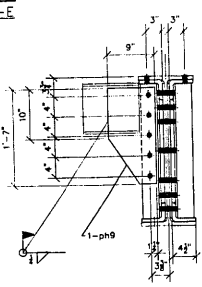
4 - ROADWAY STRINGER REPAIR - V9
REFERENCE SHEET # 16 DETAIL 2 SECTION D-D
(WEST END OF FIXED SPAN BEAM S1 AND S13)



ONE - COVER PLATE - R9*
REFERENCE SHEET # 15 SECTION E-E, G1



ONE - COVER PLATE - T9*
REFERENCE SHEET # 15 SECTION E-E, G4



ONE - SIDEWALK STRINGER - X9
REFERENCE SHEET # 16 DETAIL 1 SECTION C-C
(WEST END OF FIXED SPAN BEAM OUTSIDE TRUSS)

REVIEWED

NO EXCEPTION TAKEN
BASE CONNECTIONS AS NOTED
PARSONS BRINCKERHOFF
ELECTRICAL & MECHANICAL
J. Buehler 9/2/02

31.	ONE	PLATE 3/4"x5	3'-10"	W9*	NTR
32.					
33.	ONE	SIDEWALK STRINGER		X9	NTR
34.	2	PLATE 3/8"x20 3/8"	6'-3 1/4"	pb9	NTR
35.	4	PLATE 3/4"x3 1/2"	1'-8 3/8"	pb9	NTR
36.	ONE	PLATE 1/2"x9	1'-7"	pb9	NTR
37.	4	L 8"x4x3/4"	6'-3 1/4"	pb9	NTR
38.	4	L 3 1/2"x3 1/2"x3/8"	2'-2 7/8"	pb9	NTR
39.					

GENERAL NOTES

- * - REPAIR STEEL FOR EAST APPROACH SPAN.
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- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M148 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
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- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERRIN WILLIAMS ZINK H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

APPROVED
For Main Dimensions and Materials Only
SEP 17 2002
Ralph E. Anderson
Inspector of Bridges and Traffic Structures

APPROVED
SEP 11 2002
Ralph E. Anderson
Inspector of Bridges and Traffic Structures

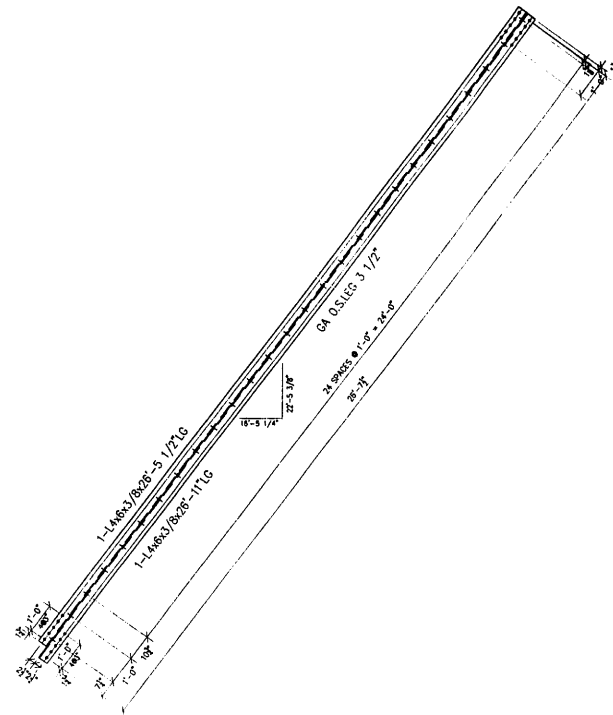
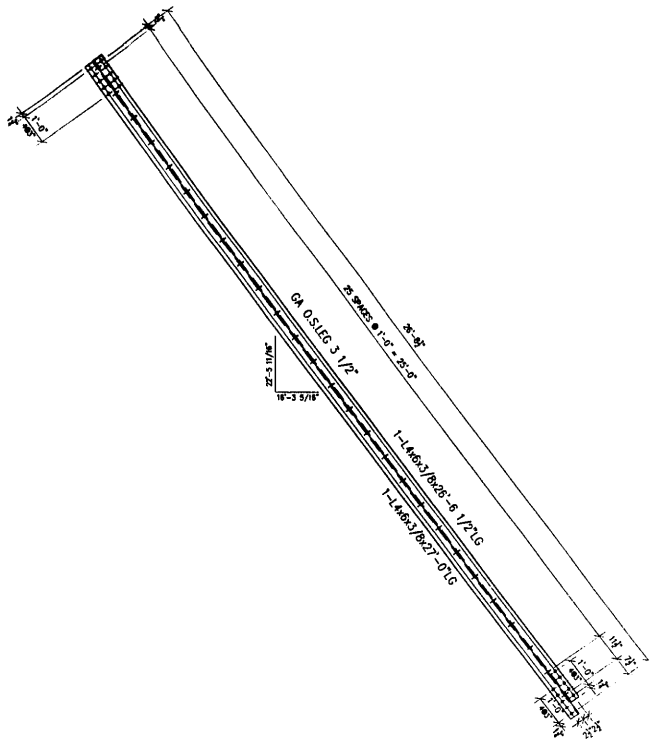
FIELD VERIFY ALL

ERECTOR DWG. E2 AND E3 SCALE: 1"=1'

SHEET TITLE	REPAIR DETAILS	JOB NO.
STRUCTURE	BRIDGE REHABILITATION	
CONTRACT #	60193 PROJECT # C-91-356-96	SHEET NO.
LOCATION	FAP. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-4-1-1	9
ENGINEER	WILL COUNTY, ILLINOIS	
ARCHITECT	PARSONS BRINCKERHOFF STRUCTURE # 099-9901	

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. I HEREBY CERTIFY THAT THE INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF ILLINOIS. I AM NOT PROVIDING CONTRACT ADMINISTRATION SERVICES. I AM NOT PROVIDING DESIGN SERVICES. I AM NOT PROVIDING INSPECTION SERVICES. I AM NOT PROVIDING TESTING SERVICES. I AM NOT PROVIDING MATERIALS TESTING SERVICES. I AM NOT PROVIDING MATERIALS INSPECTION SERVICES. I AM NOT PROVIDING MATERIALS EVALUATION SERVICES. I AM NOT PROVIDING MATERIALS VERIFICATION SERVICES. I AM NOT PROVIDING MATERIALS ACCEPTANCE SERVICES. I AM NOT PROVIDING MATERIALS REJECTION SERVICES. I AM NOT PROVIDING MATERIALS REWORK SERVICES. I AM NOT PROVIDING MATERIALS REUSE SERVICES. I AM NOT PROVIDING MATERIALS RECYCLING SERVICES. I AM NOT PROVIDING MATERIALS DISPOSAL SERVICES. I AM NOT PROVIDING MATERIALS REPAIR SERVICES. I AM NOT PROVIDING MATERIALS REPLACEMENT SERVICES. I AM NOT PROVIDING MATERIALS RESTORATION SERVICES. I AM NOT PROVIDING MATERIALS PRESERVATION SERVICES. I AM NOT PROVIDING MATERIALS PROTECTION SERVICES. I AM NOT PROVIDING MATERIALS MAINTENANCE SERVICES. I AM NOT PROVIDING MATERIALS MONITORING SERVICES. I AM NOT PROVIDING MATERIALS EVALUATION SERVICES. I AM NOT PROVIDING MATERIALS TESTING SERVICES. I AM NOT PROVIDING MATERIALS INSPECTION SERVICES. I AM NOT PROVIDING MATERIALS VERIFICATION SERVICES. I AM NOT PROVIDING MATERIALS ACCEPTANCE SERVICES. I AM NOT PROVIDING MATERIALS REJECTION SERVICES. I AM NOT PROVIDING MATERIALS REWORK SERVICES. I AM NOT PROVIDING MATERIALS REUSE SERVICES. I AM NOT PROVIDING MATERIALS RECYCLING SERVICES. I AM NOT PROVIDING MATERIALS DISPOSAL SERVICES. I AM NOT PROVIDING MATERIALS REPAIR SERVICES. I AM NOT PROVIDING MATERIALS REPLACEMENT SERVICES. I AM NOT PROVIDING MATERIALS RESTORATION SERVICES. I AM NOT PROVIDING MATERIALS PRESERVATION SERVICES. I AM NOT PROVIDING MATERIALS PROTECTION SERVICES. I AM NOT PROVIDING MATERIALS MAINTENANCE SERVICES. I AM NOT PROVIDING MATERIALS MONITORING SERVICES.	PAINT: INORGANIC ZINC RICH PRIMER [WELDS: 1/4"] HOLES: 15/16" [WELDS = E70XX] [MATERIAL = ASTM A 36] (U.N.) WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
NOI BY: GAH	REVISIONS: DATE: DRAWN BY: GAH
GAH	ISSUED FOR APPROVAL: 11/23/02 DATE: 6/04/02
GAH	RE-ISSUED FOR APPROVAL: 11/23/02 CHECKED BY:
GAH	RE-ISSUED FOR APPROVAL: 11/23/02 DATE:
	APPROVED:

DP CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416



1.			
2.	2	4" x 8 3/8"	28'-6 1/2" A10
3.	2	4" x 8 3/8"	27'-0"
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.	2	4" x 8 3/8"	26'-11" B10
14.	2	4" x 8 3/8"	26'-5 1/2"
15.			
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2 - TOP LATERALS -A10
(A103 R/L - L1-L2 EAST LEAF)

2 - TOP LATERALS -B10
(C103 R/L - L2-L3 EAST LEAF)

FIELD VERIFY

REVIEWED

NO EXCEPTION TAKEN REJECT

MAKE CORRECTIONS TO NOTES REJECT

APPROVED
For Field Dimensions and Materials Only

SEP 17 2002

Robert E. Anderson
Engineer of Steel and Traffic Structures

PARSONS BRINCKERHOFF
CONSTRUCTION INC.

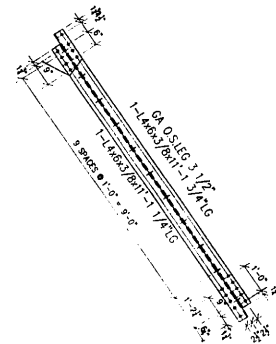
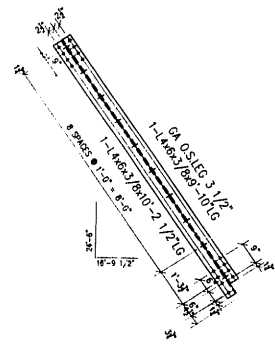
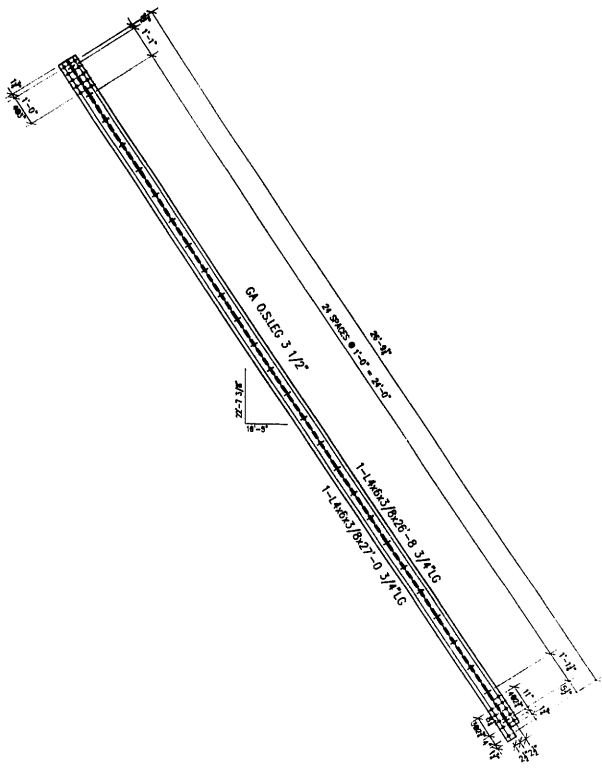
BY: J. [Signature] 9/3/02

NO EXCEPTION TAKEN TO THE ACCOUNT OF THE CONTRACTOR'S RESPONSIBILITY FOR THE ACCURACY OF THE WORK SHOWN ON THIS DRAWING AND IS SUBJECT TO THE MODIFICATIONS AND ALL CONTRACT DOCUMENTS AND SUCH CORRECTIONS AS MAY BE NOTED HEREON. VERIFY ALL DIMENSIONS IN FIELD AND CO-ORDINATE WORK WITH ADJOINING TRADES.

- GENERAL NOTES**
- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
 - ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
 - BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
 - STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
 - IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
 - CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
 - NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

APPROVAL/REVIEW AUTHORITY: CHECKED BY: [Signature] DATE: [Date] DRAWN BY: GAH DATE: 5/28/02 WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX (MATERIAL=ASTM A 36) U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES		ERECTION DWG. E4	SCALE: 1/2"=1'	STRUCTURAL BRACES	JOB NO.:
			SHEET TITLE: BRIDGE REHABILITATION STRUCTURE: CONTRACT # 80193 PROJECT # C-91-366-98 LOCATION: ILLINOIS 53 RUBY STREET SECTION # 8-08-4-1 ENGINEER: WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF STRUCTURE # 099-9901	SHEET NO.:	10	

2 - TOP LATERALS -B11
(A106 R/L - L7-L8 EAST LEAF)



2 - TOP LATERALS -A11
(E103 R/L - L3-L4 EAST LEAF)

2 - TOP LATERALS -D11
(B106 R/L - L7-L8 EAST LEAF)

FIELD VERIFY

NO.	QTY.	DESCRIPTION	SIZE	MARK	REMARKS
1.					
2.	2	4x6x3/8	28'-8 3/4"	A11	
3.	2	4x6x3/8	27'-0 3/4"		
4.					
5.					
6.					
7.					
8.					
9.					
10.	2	4x6x3/8	9'-10"	B11	
11.	2	4x6x3/8	10'-2 1/2"		
12.					
13.					
14.					
15.					
16.					
17.					
18.	2	4x6x3/8	11'-1 1/4"	D11	
19.	2	4x6x3/8	11'-1 3/4"		
20.					
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REVIEWED
 NO EXCEPTION TAKEN
 MAKE CORRECTIONS AS NOTED
APPROVED
 For Main Dimensions and Materials Only
 SEP 11 2002
 Ralph E. Anderson
 Engineer of Bridges and Traffic Structures

- GENERAL NOTES**
- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
 - ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
 - BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M148 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
 - STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
 - IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
 - CLEAN & PAINT:
 A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
 - NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2

APPROVED
 For Main Dimensions and Materials Only
 SEP 11 2002
 Ralph E. Anderson
 Engineer of Bridges and Traffic Structures

APPROVAL/REVIEW AUTHORITY:
 PLEASE REVIEW THIS DRAWING CAREFULLY. CORRECTED DIMENSIONS AND MATERIALS SHALL BE SHOWN IN RED. THE ORIGINAL DIMENSIONS AND MATERIALS SHALL BE SHOWN IN BLACK. THE RESPONSIBILITY OF THE DESIGNER IS TO VERIFY THE DIMENSIONS AND MATERIALS OF THE FABRICATED WORK. THE APPROVAL OF THIS DRAWING IS NOT A GUARANTEE OF THE ACCURACY OF THE DIMENSIONS AND MATERIALS. THE APPROVAL OF THIS DRAWING IS NOT A GUARANTEE OF THE ACCURACY OF THE DIMENSIONS AND MATERIALS.

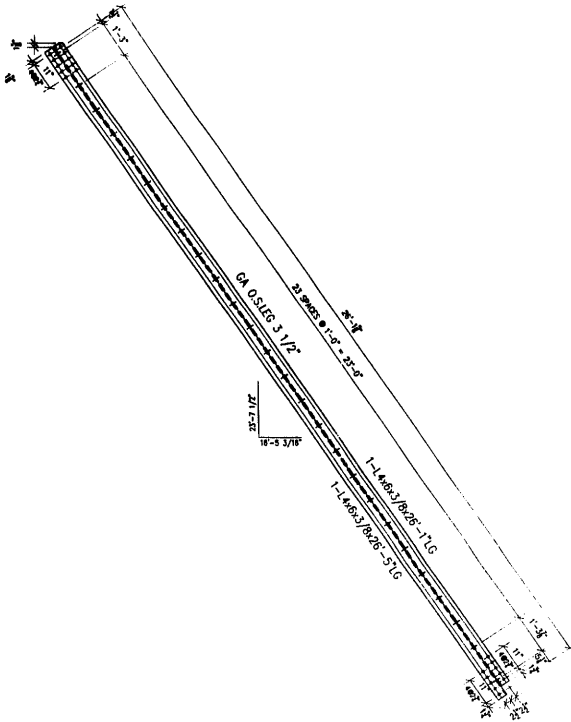
PAINT: INORGANIC ZINC RICH PRIMER (WELDS: 1/4")
 HOLES: 15/16" Ø (WELDS = E70XX) (MATERIAL=ASTM A 36) U.N.
 WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES

NO. BY REVISIONS DATE DRAWN BY: GAH
 Δ GAH ISSUED FOR APPROVAL 1/2/02 DATE: 5/28/02
 Δ GAH RE-ISSUED FOR APPROVAL 4/1/02 CHECKED BY:
 Δ GAH REVISD QUANTITIES 4/1/02 DATE:
 APPROVED:

PB
PB
D' CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1488 SO. BROADWAY
 COAL CITY, ILLINOIS 60416

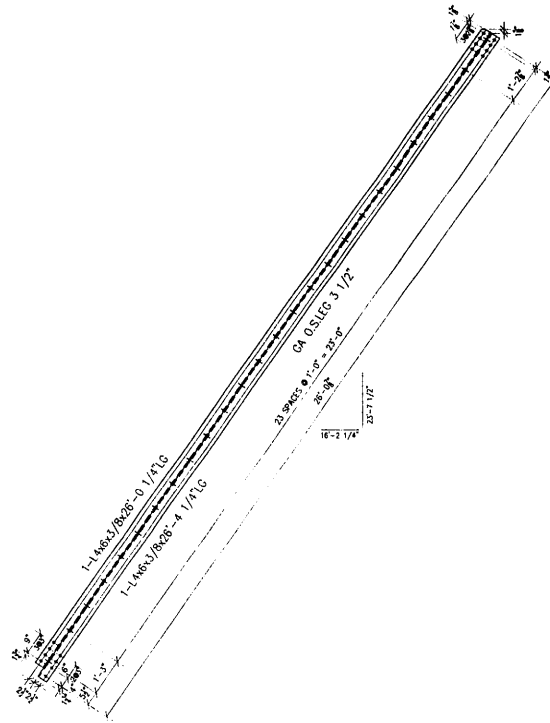
ERECTOR DWG. E4 SCALE: 1/2"=1'

SHEET TITLE	STRUCTURAL BRACES	JOB NO.:
STRUCTURE	BRIDGE REHABILITATION	SHEET NO.:
LOCATION	CONTRACT # 60183 PROJECT # C-91-356-96	11
ENGINEER	FAP. ROUTE 112 (ALONG S1 RUBY STREET) SECTION M-B-DK-4-1-1	
	WILL COUNTY, ILLINOIS	
	PARSONS BRINCKERHOFF	
	STRUCTURE # 009-9901	



2 - BOTTOM LATERALS -A12
(A104 R/L - L3-L4 EAST LEAF)

FIELD VERIFY



ONE - BOTTOM LATERALS -B12
(C104 R - L4-L5 EAST LEAF)

NO	REV	DESCRIPTION	DATE	BY	CHKD
1.					
2.	2	4x6x3/8	28-1"	A12	
3.	2	4x6x3/8	28-5"		
4.					
5.					
6.					
7.					
8.					
9.	1	4x6x3/8	28-0 1/4"	B12	
10.	1	4x6x3/8	28-4 1/4"		
11.					
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39.					
40.					

REVIEWED

NO EXCEPTION TAKEN REJECTED

MAKE CONNECTIONS AS NOTED PARSONS BRINCKERHOFF

APPROVED
For Main Dimensions and Materials Only

SEP 17 2002

Robert E. Anderson
Engineer of Bridges and Traffic Structures

SEP 11 2002

Robert E. Anderson
Engineer of Bridges and Traffic Structures

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M148 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
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- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2

ERECTOR DWG. E4

SCALE: 1/2"=1'

SHEET TITLE	STRUCTURAL BRACES	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	SHEET NO:
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96	12
ENGINEER	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-4-1-1	
	WILL COUNTY, ILLINOIS	
	PARSONS BRINCKERHOFF	
	STRUCTURE # 099-9901	

APPROVAL/REVIEW AUTHORITY:

PLEASE REVIEW THIS DRAWING CAREFULLY FOR CONFORMANCE WITH THE SPECIFICATIONS AND THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS AND THE APPROVAL OF ALL CONNECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF THE DIMENSIONS.

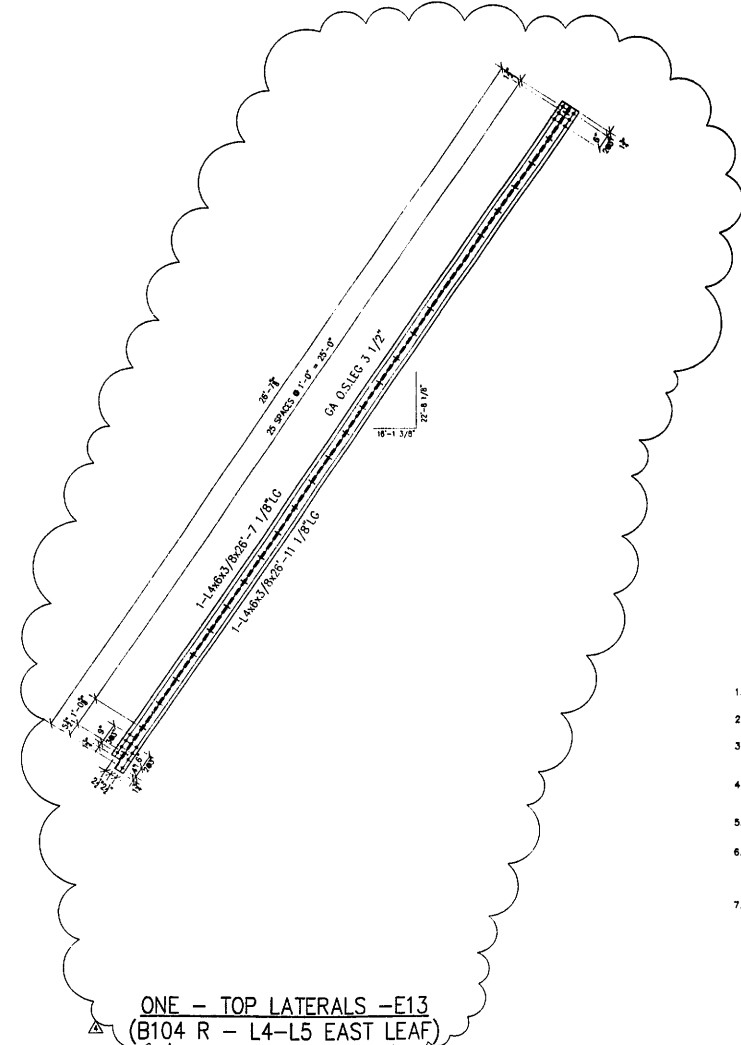
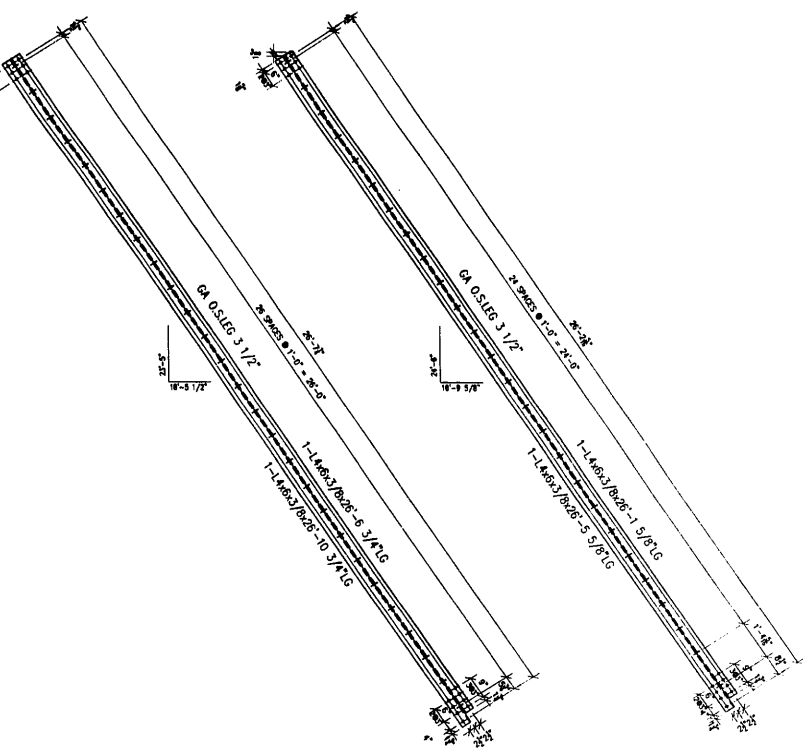
NO	BY	REVISIONS	DATE	DRAWN BY:	GAH
Δ	GAH	ISSUED FOR APPROVAL	11/23/02	DATE:	5/28/02
Δ	GAH	RE-ISSUED FOR APPROVAL	8/19/02	CHECKED BY:	
Δ	GAH	REVISED QUANTITIES	8/29/02	DATE:	
Δ				APPROVED:	

PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4"

HOLES: 15/16" Ø WELDS = E70XX MATL=ASTM A 36 U.N.

WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES





#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	1	4"x8"x3/8"	28'-6 3/4"	A13	
3.	1	4"x8"x3/8"	28'-10 3/4"		
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.	2	4"x8"x3/8"	28'-6 3/4"	B13	
12.	2	4"x8"x3/8"	28'-10 3/4"		
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.	2	4"x8"x3/8"	28'-1 5/8"	D13	
22.	2	4"x8"x3/8"	28'-5 5/8"		
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.	1	4"x8"x3/8"	28'-7 1/8"	E13	
31.	1	4"x8"x3/8"	28'-11 1/8"		
32.					
33.					
34.					
35.					
36.					
37.					
38.					
39.					
40.					

REVIEWED

NO EXCEPTION TAKEN REJECTED

MARK CORRECTIONS AS NOTED MARKED

PARSONS BRINCKERHOFF
 390
 BY: J. [Signature] 9/1/02

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
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- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER.
- NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2.

APPROVED
 For Main Erection and
 Materials Only

SEP 11 2002

Ralph C. Anderson
 Engineer of Bridges and Traffic Structures

ONE - TOP LATERALS -A13
 (D104 R - L5-L7 EAST LEAF)

2 - TOP LATERALS -B13
 (D104 L - L5-L6 EAST LEAF)
 (OPP HAND)

2 - BOTTOM LATERALS -D13
 (E104 R/L - L5-L6 EAST LEAF)

ONE - TOP LATERALS -E13
 (B104 R - L4-L5 EAST LEAF)

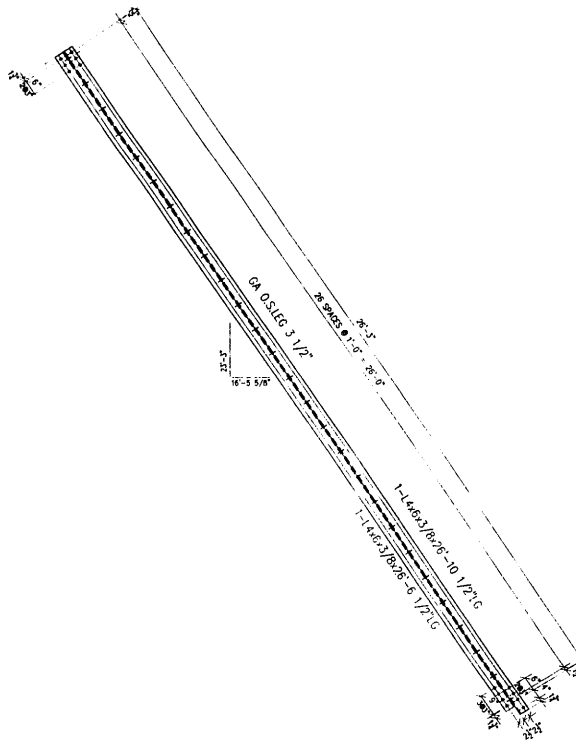
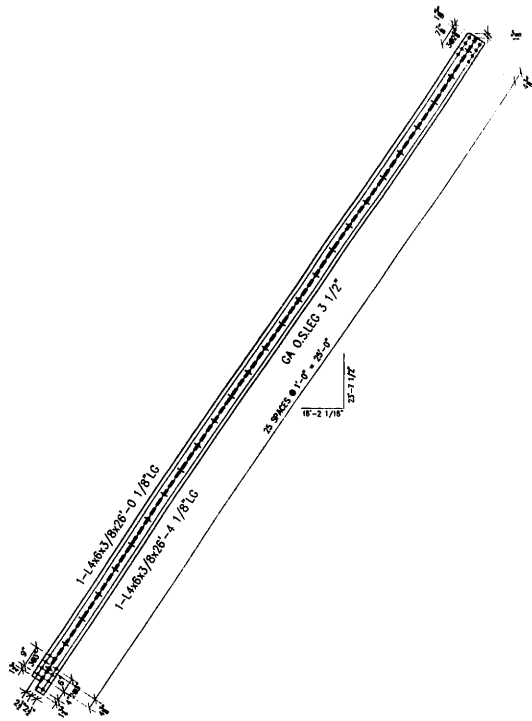
FIELD VERIFY

APPROVAL/REVIEW AUTHORITY:		PAINT: INORGANIC ZINC RICH PRIMER		WELDS: 1/4"	
PLEASE REVIEW THIS DRAWING CAREFULLY		HOLES: 15/16" Ø		WELDS = E70XX	
FOR THE PROJECT AND FOR THE CONTRACTOR'S		MATERIALS: ASTM A 36		U.N.	
USE OF THIS DRAWING IS LIMITED TO THE PROJECT		WIRE FOR SHIPMENT ALL LONG CLIP ANGLES			
NO.	BY	REVISIONS	DATE	DRAWN BY:	GAH
1	GAH	ISSUED FOR APPROVAL	7/27/02	DATE:	5/28/02
2	GAH	RE-ISSUED FOR APPROVAL	8/1/02	CHECKED BY:	
3	GAH	REVISED QUANTITIES	8/20/02	DATE:	
4	GAH	REVISED PER COMMENTS	8/20/02	APPROVED:	



D' CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1458 SO. BROADWAY
 COAL CITY, ILLINOIS 60416

ERECTOR DWG. E4		SCALE: 1/2"=1'	
SHEET TITLE	STRUCTURAL BRACES		JOB NO.:
STRUCTURE	BRIDGE REHABILITATION		SHEET NO.:
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-9-08-44-1		13
ENGINEER	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF		
	STRUCTURE # 099-9901		



1.				
2.	1	L4x6x3/8	26'-0 1/8"	A14
3.	1	L4x6x3/8	26'-4 1/8"	
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.	2	L4x6x3/8	26'-10 1/2"	B14
12.	2	L4x6x3/8	26'-6 1/2"	
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.	1	L4x6x3/8	26'-10 1/2"	D14
24.	1	L4x6x3/8	26'-6 1/2"	
25.				
26.				
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APPROVED
For Main Dimensions and
Materials Only
SEP 17 2002
Ralph E. Anderson
Engineer of Bridges and Traffic Structures

REVIEWED
 NO EXCEPTION TAKEN
 MAKE CORRECTIONS AS NOTED
PARSONS BRINCKERHOFF
LAWRENCE R. DOUGLAS, INC.
SEP 17 2002
Ralph E. Anderson
Engineer of Bridges and Traffic Structures

GENERAL NOTES
VERIFY ALL DIMENSIONS IN FIELD AND
COORDINATE WORK WITH ADJOINING TRADES.

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M148 ONLY. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2

ONE - BOTTOM LATERALS -A14
(A52 R - L4-L5 WEST LEAF)
(OPP. HAND)

2 - TOP LATERALS -B14
(B52 L - L5-L7 WEST LEAF)
ONE - TOP LATERALS -D14
(B52 R - L6-L7 WEST LEAF)
(OPP. HAND)

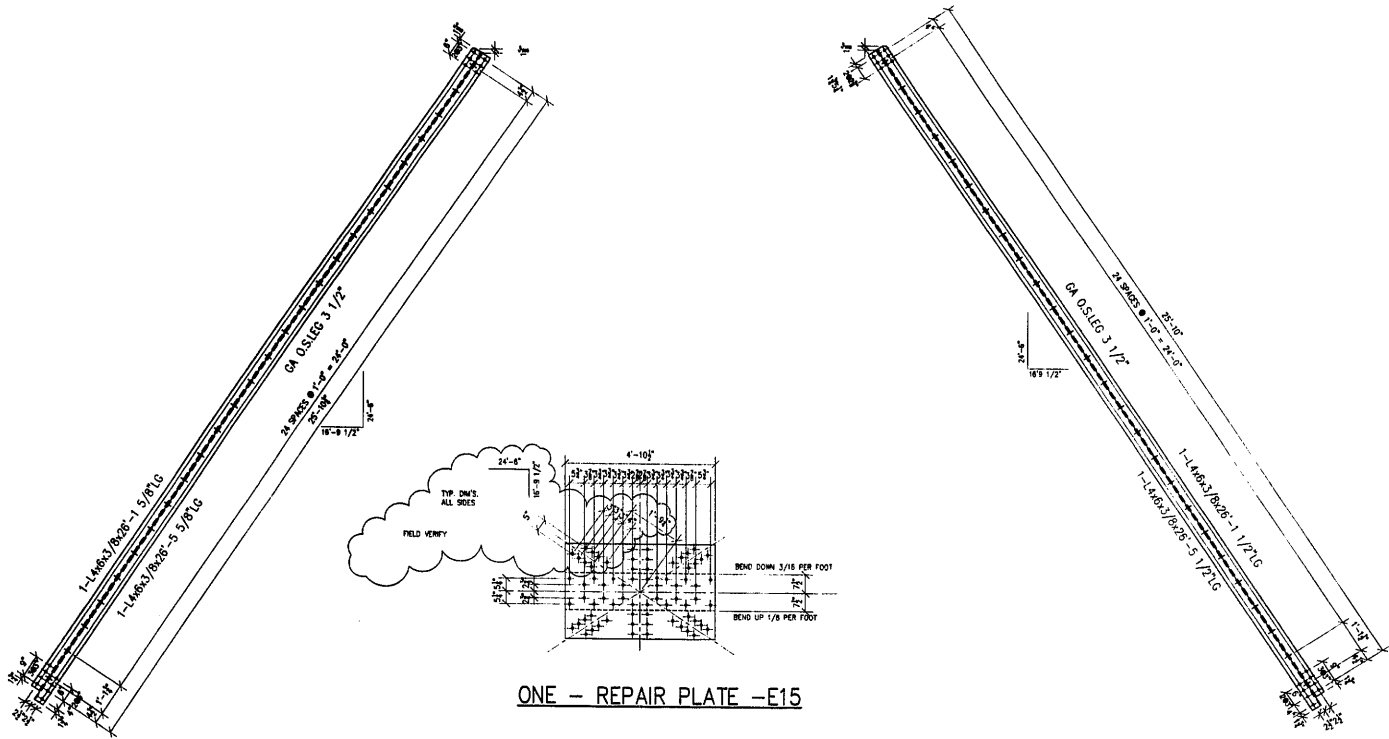
FIELD VERIFY

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. I HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL ENGINEER AND I AM THE DESIGNER OF THIS DRAWING. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE ACCURACY OF THE INFORMATION CONTAINED HEREIN OR FOR THE RESULTS OF ANY CONSTRUCTION WORK BASED ON THIS DRAWING. THIS IS THE RESPONSIBILITY OF THE CLIENT.	PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	WELDS: 1/4" U.N.
NO BY REVISIONS DATE DRAWN BY: CAH	ISSUED FOR APPROVAL 7/23/02 DATE: 5/28/02	
RE-ISSUED FOR APPROVAL 8/19/02	CHECKED BY:	
	DATE:	
	APPROVED:	



D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

ERECTION DWG. E4	SCALE: 1/2"=1'	JOB NO.:
SHEET TITLE	STRUCTURAL BRACES	
STRUCTURE	BRIDGE REHABILITATION	SHEET NO.:
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96	14
ENGINEER	F.A.P. ROUTE 112 (LINDS 53 RUBY STREET) SECTION M-8-BB-4-I-1 WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF STRUCTURE # 099-9901	



ONE - REPAIR PLATE -E15

2 - BOTTOM LATERALS -A15
(D52 R/L - L4-L5 WEST LEAF)

2 - BOTTOM LATERALS -B15
(E52 R/L - L7-L8 WEST LEAF)

FIELD VERIFY

2 - BOTTOM LATERALS -D15
(C52 R/L - L4-L5 WEST LEAF)

1.				
2.	2	L4x8x3/8	28'-1 5/8"	A15
3.	2	L4x8x3/8	28'-5 5/8"	
4.				
5.				
6.				
7.				
8.				
9.	2	L4x8x3/8	28'-1 5/8"	B15
10.	2	L4x8x3/8	28'-5 5/8"	
11.				
12.				
13.				
14.				
15.				
16.	2	L4x8x3/8	28'-1 1/2"	D15
17.	2	L4x8x3/8	28'-5 1/2"	
18.				
19.				
20.				
21.				
22.	1	PLATE 3/8x38 1/2"	4'-10 1/2"	E15
23.				
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40.				

REVIEWED

APPROVED
For Main Dimensions and Materials Only
SEP 17 2002
Ralph E. Anderson
Engineer of Bridges and Traffic Structures

NO CORRECTIONS TAKEN
MAKE CORRECTIONS AS NOTED
PARSONS BRINCKERHOFF
CLAUDE S. BRINCKERHOFF, INC.
SEP 17 2002
9/3/02
REVIEW APPLIES TO QUANTITY, DIMENSIONS AND
DETAILS OF DESIGN NOT TO THE MEASUREMENT
DETAILS AND DIMENSIONS SHOWN TO THE STRUCTURE
ACCURACY AND FUNCTIONAL PERFORMANCE OF
WORK OR STRUCTURES SUBMITTED AND IS SUBJECT
TO THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS
AND SUCH CORRECTIONS AS MAY BE NOTED HEREON.
VERIFY ALL DIMENSIONS IN FIELD AND
COORDINATE WORK WITH ADJOINING TRADES.

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
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- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M148 GALV. 1/2" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BLASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2

APPROVED
For Main Dimensions and Materials Only
SEP 11 2002
Ralph E. Anderson
Engineer of Bridges and Traffic Structures

ERECTOR DWG. E4 SCALE: 1/2"=1'

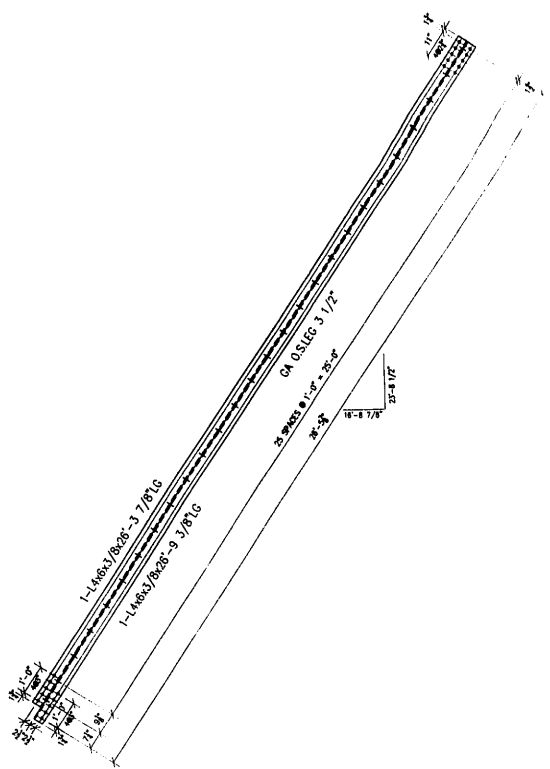
APPROVAL/REVIEW AUTHORITY:		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4"		
DESIGNER: [Signature]		HOLES: 15/16" WELDS = E70XX MAT=L-ASTM A 36 U.N.		
CHECKER: [Signature]		WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES		
NO	BY	REVISIONS	DATE	DRAWN BY: GAH
Δ	GAH	ISSUED FOR APPROVAL	7/23/02	DATE: 5/28/02
Δ	GAH	RE-ASSIGNED FOR APPROVAL	8/16/02	CHECKED BY:
Δ	GAH	BONDED DIMENSIONS	8/23/02	DATE:
Δ				APPROVED:



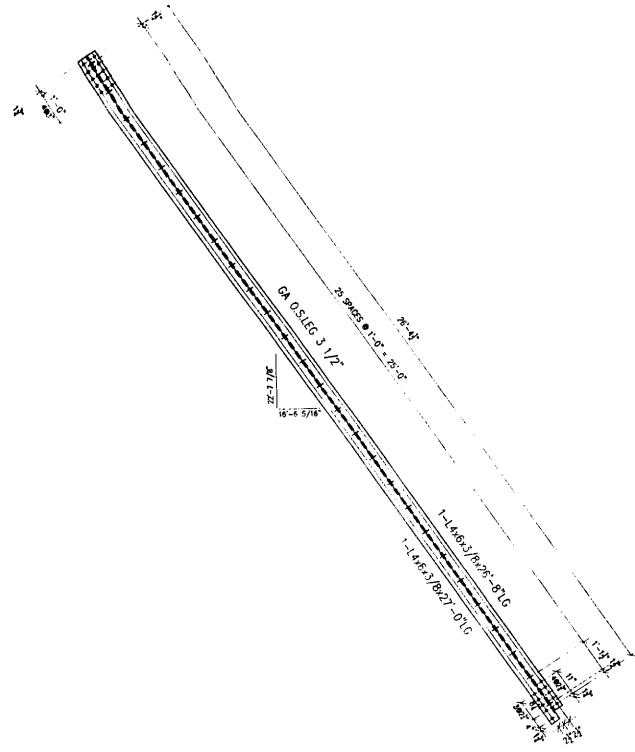
D'D CONSTRUCTION, INC.
GENERAL CONTRACTOR
1458 SO. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE	STRUCTURAL BRACES	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO:
ENGINEER	FAR. ROUTE 112 (LINDS 33 RUBY STREET) SECTIN B-8-DR-4-1-1	15
	WILL COUNTY, ILLINOIS	
	PARSONS BRINCKERHOFF	
	STRUCTURE # 093-9901	

1.			
2.	2	4' x 8' x 3/8"	26'-3 7/8" A16
3.	2	4' x 8' x 3/8"	26'-9 3/8"
4.			
5.			
6.			
7.			
8.			
9.	2	4' x 8' x 3/8"	26'-8" B16
10.	2	4' x 8' x 3/8"	27'-0"
11.			
12.			
13.			
14.			
15.			
16.			
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18.			
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2 - BOTTOM LATERALS -A16
(A46 R/L - L2-L3 WEST LEAF)



2 - TOP LATERALS -B16
(C46 R/L - L3-L4 WEST LEAF)

REVIEWED

APPROVED
For Main Dimensions and
Materials Only
SEP 17 2002
Ralph C. Anderson
Engineer of Bridges and Traffic Structures

NO EXCEPTION TAKEN REJECTOR

MAKE CORRECTIONS AS NOTED PARSONS BRINCKERHOFF
QUADE & DOUGLAS, INC.

BY: J. QUAD DATE: 9/3/02

REVIEW APPROVED FOR CONSTRUCTION MANAGEMENT
DETAILS OF ALL WORK SHALL BE THE RESPONSIBILITY OF THE
ARCHITECT AND SHALL BE SUBMITTED TO THE ARCHITECT
BEFORE OR CONCURRENT WITH THE START OF CONSTRUCTION
AND SUCH CORRECTIONS AS MAY BE NOTED HEREON
VERIFY ALL DIMENSIONS IN FIELD AND
CO-ORDINATE WORK WITH ADJOINING TRACES.

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS 1/4" GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2

APPROVED
For Main Dimensions and
Materials Only
SEP 11 2002
Ralph C. Anderson
Engineer of Bridges and Traffic Structures

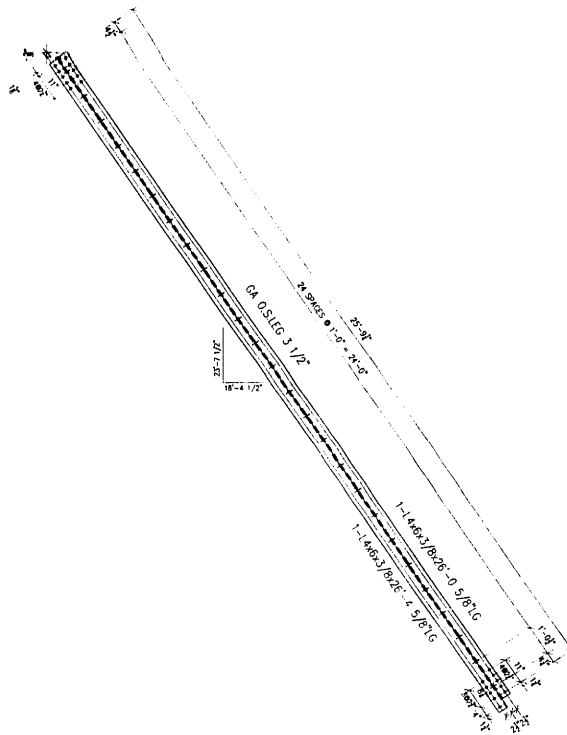
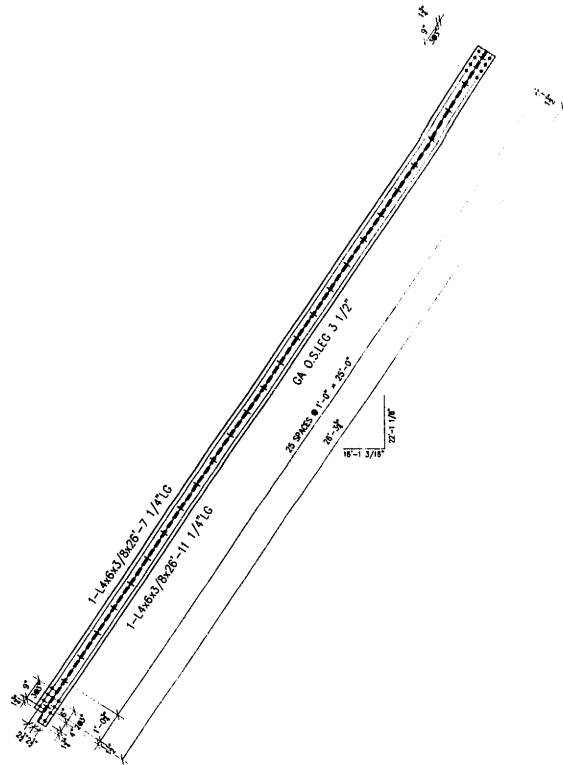
FIELD VERIFY

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. IF YOU HAVE ANY COMMENTS, CONTACT THE ARCHITECT FOR THE CORRECTED DRAWING. YOUR REVIEW AND APPROVAL IS THE RESPONSIBILITY OF THE ARCHITECT. THIS DRAWING IS THE PROPERTY OF THE ARCHITECT. IT IS TO BE USED ONLY FOR THE PROJECT SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.	PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" Ø WELDS = E70XX MAT=ASTM A 36 } U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
NO. BY REVISIONS DATE DRAWN BY: GAH	DATE: 5/28/02
GAH ISSUED FOR APPROVAL 7/22/02	DATE: 5/28/02
GAH RE-ISSUED FOR APPROVAL 8/19/02	CHECKED BY:
GAH REVISED QUANTITIES 8/29/02	DATE:
	APPROVED:



D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

ERECTION DWG. E4	SCALE: 1/2"=1'
SHEET TITLE	STRUCTURAL BRACES
STRUCTURE	BRIDGE REHABILITATION CONTRACT # 60193 PROJECT # C-91-386-96
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-4-1-1
ENGINEER	PARSONS BRINCKERHOFF STRUCTURE # 099-9901
JOB NO:	
SHEET NO:	16



1.				
2.	1	L4603/8	26-7 1/4	A17
3.	1	L4603/8	26-11 1/4	
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9.				
10.				
11.				
12.	2	L4603/8	26-0 5/8	B17
13.	2	L4603/8	26-4 5/8	
14.				
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ONE - TOP LATERALS -A17
(E46 R - L4-L5 WEST LEAF)
(OPP. HAND)

2 - BOTTOM LATERALS -B17
(D46 R/L - L3-L4 WEST LEAF)

FIELD VERIFY

REVIEWED

NO EXCEPTION TAKEN REJECTED

MAKE CORRECTIONS AS NOTED

APPROVED

For Main Dimensions and Materials Only

SEP 17 2002

Ralph E. Anderson
Engineer of Bridges and Traffic Structures

PARSONS BRINCKERHOFF
LANGE & DOUGLAS, INC.

SEP 17 2002

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SEP 17 2002

SEP 17 2002

SEP 17 2002

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR35 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

APPROVED

For Main Dimensions and Materials Only

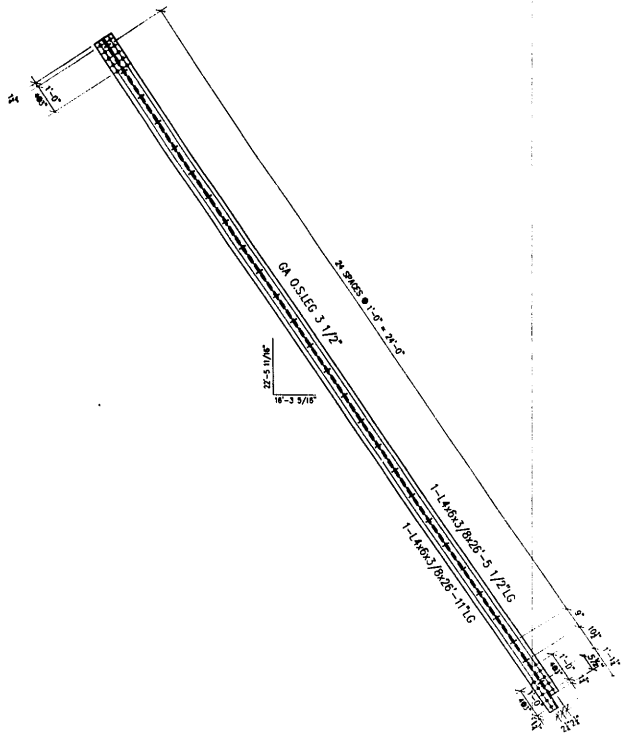
SEP 11 2002

Ralph E. Anderson
Engineer of Bridges and Traffic Structures

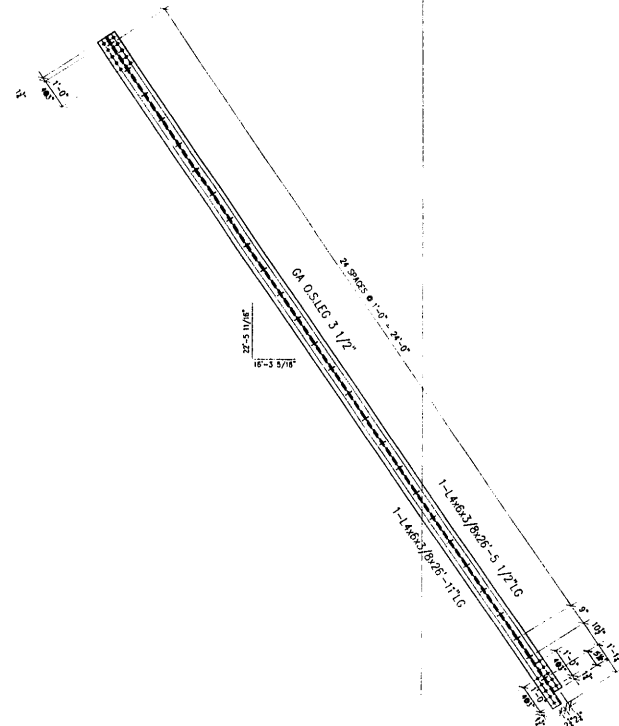
ERECTION DWG. E4

SCALE: 1/2"=1'

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. IF APPROVED SIGN AND DATE. IF NOT APPROVED SIGN AND DATE AND STATE REASON FOR NOT APPROVING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE INFORMATION PROVIDED TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE INFORMATION PROVIDED TO THE CONTRACTOR.	PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	NO. BY REVISIONS DATE/DRAWN BY: GAH GAH ISSUED FOR APPROVAL 1/23/02 DATE: 5/28/02 GAH RE-ISSUED FOR APPROVAL 6/19/02 CHECKED BY: GAH RE-ISSUED QUANTITIES 6/26/02 DATE: APPROVED:	<p>D' CONSTRUCTION, INC. GENERAL CONTRACTOR 1485 SO. BROADWAY COAL CITY, ILLINOIS 60416</p>	SHEET TITLE STRUCTURE LOCATION ENGINEER	STRUCTURAL BRACES BRIDGE REHABILITATION CONTRACT # 60193 PROJECT # C-91-366-96 F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-4-1-1 WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF STRUCTURE # 099-9901	JOB NO: SHEET NO: 17
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2 - TOP LATERALS -A18
(F42 R/L - L1-L2 WEST LEAF)



ONE - BOTTOM LATERALS -B18
(G42 R - L1-L2 WEST LEAF)
(OPP. HAND)

FIELD VERIFY

NO	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	2	4" x 13/8"	26'-5 1/2"	A18	
3.	2	4" x 13/8"	26'-11"		
4.					
5.					
6.					
7.					
8.					
9.	1	4" x 13/8"	26'-5 1/2"	B18	
10.	1	4" x 13/8"	26'-11"		
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36.					
37.					
38.					
39.					
40.					

REVIEWED

NO EXCEPTION TAKEN REJECTED

MAKE CORRECTIONS AS NOTED PARSONS BRINCKERHOFF

SEP 11 2002

Ralph E. Anderson
 Engineer of Bridges and Traffic Structures

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE ROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

APPROVED
 For Main Dimensions and Materials Only

SEP 11 2002

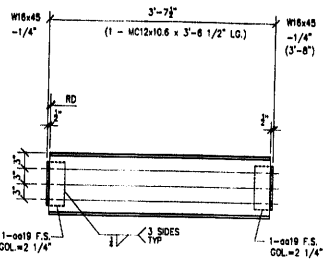
Ralph E. Anderson
 Engineer of Bridges and Traffic Structures

ERECTION DWG. E4 SCALE: 1/2"=1'

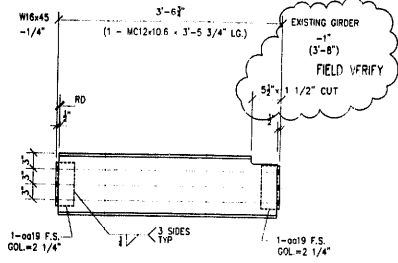
PLEASE REVIEW THIS DRAWING CAREFULLY. APPROVAL/REVIEW AUTHORITY: SIGNATURE AND DATE OF THE REVIEWER OF THE WORK SHALL BE OBTAINED FROM THE CONTRACTOR. CHECKS AND APPROVALS FOR THE DESIGN SHALL BE OBTAINED FROM THE DESIGNER OF THE WORK. ALL DIMENSIONS SHALL BE IN UNLESS OTHERWISE NOTED. DIMENSIONS TO CENTER UNLESS OTHERWISE NOTED. DIMENSIONS TO FACE UNLESS OTHERWISE NOTED. DIMENSIONS TO CENTER UNLESS OTHERWISE NOTED. DIMENSIONS TO FACE UNLESS OTHERWISE NOTED. DIMENSIONS TO CENTER UNLESS OTHERWISE NOTED. DIMENSIONS TO FACE UNLESS OTHERWISE NOTED.		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 } U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES		
NO	BY	REVISIONS	DATE	DRAWN BY: GAH
1	GAH	ISSUED FOR APPROVAL	7/2/02	DATE: 5/28/02
2	GAH	RE-ISSUED FOR APPROVAL	8/10/02	CHECKED BY:
3	GAH	REVISED QUANTITIES	8/29/02	DATE:
APPROVED:				

D' CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1488 SO. BROADWAY,
 COAL CITY, ILLINOIS 60416

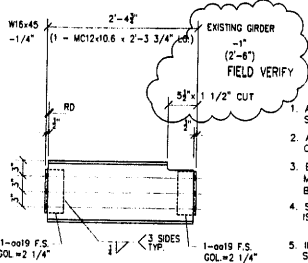
SHEET TITLE	STRUCTURAL BRACES	JOB NO.	
STRUCTURE	BRIDGE REHABILITATION	SHEET NO.	18
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-95 FAP, ROUTE 112 (LINDS 53 RUBY STREET) SECTION H-9-DR-4-1		
ENGINEER	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF STRUCTURE # 099-9901		



16 - BEAM - A19
REFERENCE SHEET # 8



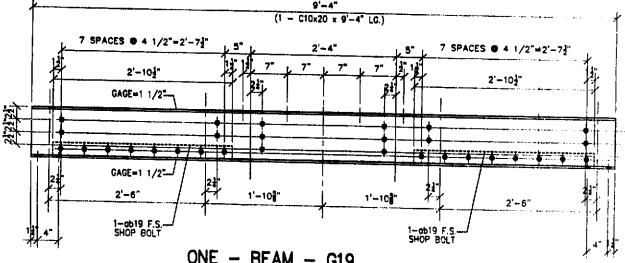
4 - BEAM AS SHOWN - B19
4 - BEAM OPPOSITE - D19
REFERENCE SHEET # 8



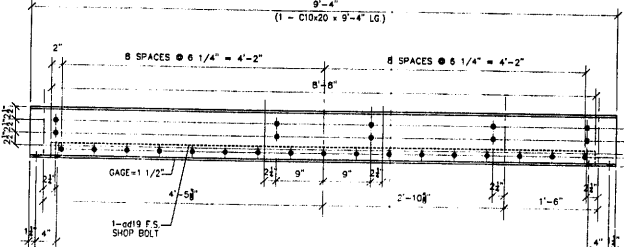
2 - BEAM AS SHOWN - E19
2 - BEAM OPPOSITE - F19
REFERENCE SHEET # 8

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M148 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BLASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"



ONE - BEAM - G19
REFERENCE SHEET # 34
EAST LEAF PLATFORM SOUTH SIDE

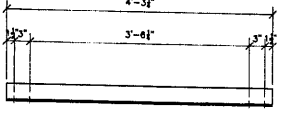


ONE - BEAM - H19
REFERENCE SHEET # 34
EAST LEAF PLATFORM NORTH SIDE

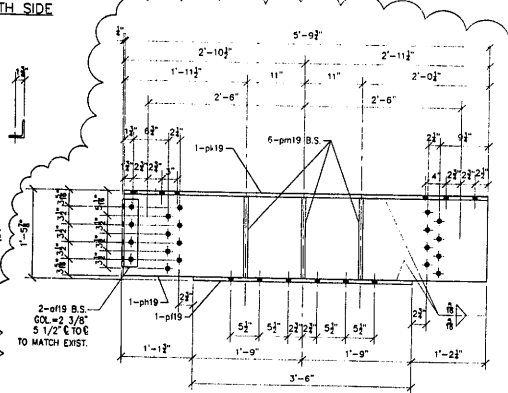
APPROVED
FOR SHOP FABRICATION
Materials Only
SEP 11 2002
Ralph C. Anderson
Engineer of Bridges and Traffic Structures

REVIEWED
NO EXCEPTION TAKEN
MAKE CORRECTIONS AS NOTED
PARSONS BRINCKERHOFF
GLADISE & DOUGLAS, INC.
BY J. Zuo
REVIEW DATE: 9/9/02
DETAILS OF THIS DRAWING ARE THE PROPERTY OF PARSONS BRINCKERHOFF AND SHALL BE KEPT IN CONFIDENCE. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF PARSONS BRINCKERHOFF. VERIFY ALL DIMENSIONS IN FIELD AND CO-ORDINATE WORK WITH ADJOINING TRADES.

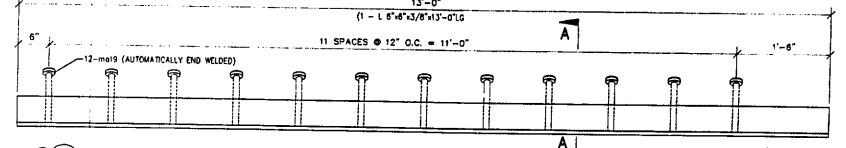
NO	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	16	MC12x10.6	3'-6 1/2"	A19	
3.	32	L 4 x4 x1/2	0'-6 1/2"	ø19	
4.					
5.					
6.	4	MC12x10.6	3'-5 3/4"	B19	
7.	8			ø19	
8.					
9.					
10.	4	MC12x10.6	3'-5 3/4"	D19	
11.	8			ø19	
12.					
13.					
14.	2	MC12x10.6	2'-3 3/4"	E19	
15.	4			ø19	
16.					
17.					
18.	2	MC12x10.6	2'-3 3/4"	F19	
19.	4			ø19	
20.					
21.					
22.	ONE	C10x20	9'-4"	G19	
23.	2	L 3'x2 1/2'x5/16'	2'-10 1/2"	ø19	
24.					
25.					
26.	ONE	C10x20	9'-4"	H19	
27.	ONE	L 3'x2 1/2'x5/16'	8'-8"	ø19	
28.					
29.					
30.	2	L 3 1/2'x3'x5/16'	4'-0 1/4"	K19	
31.					
32.					
33.	ONE	ANCHORAGE GIRDER	--	N19	
34.	2	L 4'x3 1/2'x3/8"	1'-1 1/2"	ø19	
35.	ONE	PLATE 3/4'x3'x3/8"	3'-8"	ø19	A50 NTR
36.	ONE	PLATE 13/16'x16 3/8"	5'-9 3/4"	ø19	A50 NTR
37.	ONE	PLATE 3/4'x8 3/4"	5'-9 3/4"	ø19	A50 NTR
38.	6	PLATE 3/4'x3 3/4"	1'-4 3/8"	ø19	A50 NTR
39.					
40.	ONE	ANCHORAGE GIRDER	--	P19	
41.	2			ø19	
42.	ONE			ø19	A50 NTR
43.	ONE			ø19	A50 NTR
44.	ONE			ø19	A50 NTR
45.	6			ø19	A50 NTR
46.					
47.	4	L 6'x6'x3/8"	13'-0"	T19	
48.	48	3/4" STUD ANCHOR	4"	ø19	
49.					
50.	4	L 6'x6'x3/8"	13'-0"	V19	
51.	48			ø19	



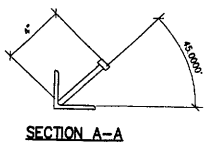
2 - ANGLE - K19
REFERENCE SHEET # 34
EAST LEAF PLATFORM BOTH SIDES



ONE - ANCHORAGE GIRDER AS SHOWN - N19
ONE - ANCHORAGE GIRDER OPPOSITE - P19
REFERENCE SHEET # 49
NORTH SHOWN SOUTH OPPOSITE



4 - EMBEDDED ANGLE AS SHOWN - T19
4 - EMBEDDED ANGLE OPPOSITE - V19
REFERENCE SHEET # 49

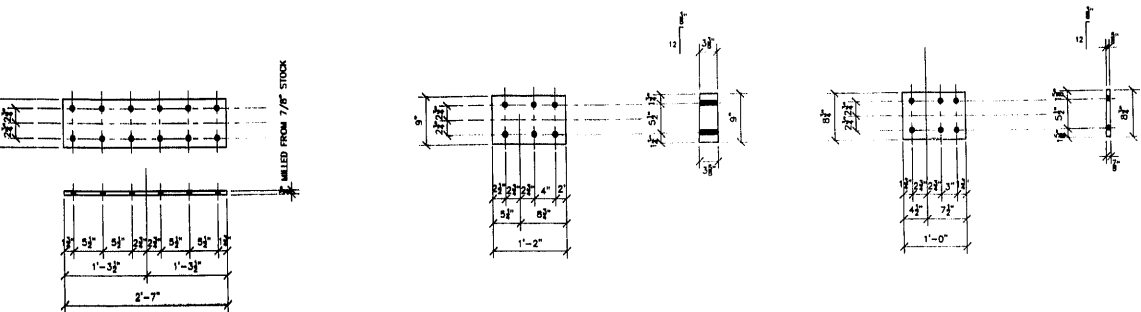


FIELD VERIFY ALL
APPROVED
For the Contractor and Materials Only
SEP 11 2002
Ralph C. Anderson
Engineer of Bridges and Traffic Structures

APPROVAL/REVIEW AUTHORITY:		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4"	
PLEASE REVIEW THIS DRAWING CAREFULLY FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. PROVIDE THE DATE, FABRICATOR AND THE NAME OF THE PERSONNEL WHO REVIEWED THIS DRAWING FOR THE CONTRACTOR'S USE.		HOLES: 15/16" WELDS = E70XX MAT=ASTM A 36	
NOTES REFER TO THE CONTRACT. ON THE DRAWING, WHEN IT IS REQUIRED BY THE CONTRACT, USE THE APPROPRIATE SYMBOLS TO INDICATE THE LOCATION OF THE WORK.		WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	
NO.	BY	REVISIONS	DATE
1	CAH	ISSUED FOR APPROVAL	7/2/02
2	CAH	RE-ISSUED FOR APPROVAL	8/19/02
3	CAH	REVIEW PER COMMENTS	9/5/02
DRAWN BY: CAH		DATE: 6/30/02	
CHECKED BY:		DATE:	
APPROVED:			

D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

ERECTOR DWG E2 (UNO) SCALE: 1"=1'		JOB NO:	
SHEET TITLE	REPAIR DETAILS	BRIDGE REHABILITATION	
STRUCTURE	CONTRACT # 60193 PROJECT # C-91-366-96		
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-1-1		
ENGINEER	WILL COUNTY, ILLINOIS		
ARCHITECT	PARSONS BRINCKERHOFF STRUCTURE # 099-9901		
SHEET NO:			19



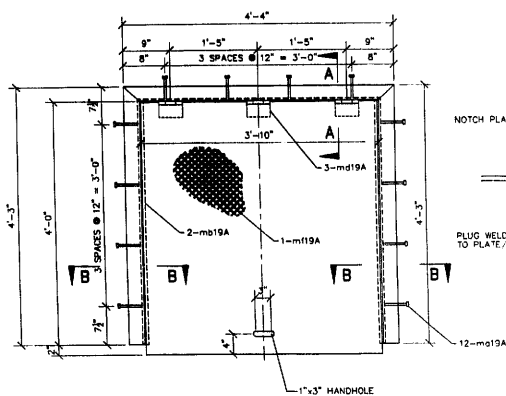
2 - BEARING PLATE - A19A
REFERENCE SHEET # 50 DETAIL 4

2 - BEVELED PLATE - B19A
REFERENCE SHEET # 50 DETAIL 3

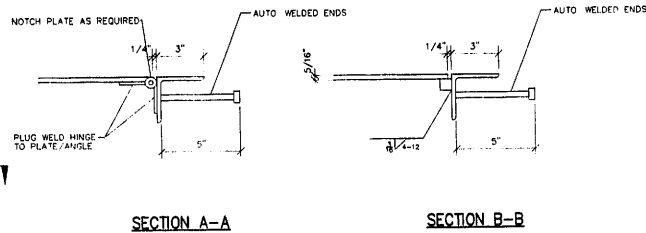
2 - BEVELED PLATE - D19A
REFERENCE SHEET # 50 DETAIL 3

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2



ONE - ACCESS OPENING FRAME - E19A
REFERENCE SHEET # 51



SECTION A-A

SECTION B-B

1.					
2.	2	PLATE 7/8"x9"	2'-7"	A19A	MILL TO SIZE
3.					
4.					
5.					
6.	2	PLATE 3 5/8"x9"	1'-2"	B19A	MILL TO SIZE
7.					
8.					
9.					
10.	2	PLATE 7/8"x8 3/4"	1'-0"	D19A	MILL TO SIZE
11.					
12.					
13.					
14.	ONE	ACCESS OPENING			E19A
15.	2	L 3"x3"x3/8"	4'-3"		
16.	ONE	L 3"x3"x3/8"	4'-4"		
17.	12	3/8" STUD ANCHOR	0'-5"	mb19A	
18.	2	BAR 3/4"x3/4"	0'-4"	mb19A	
19.	3	4"x2"x1/8" S.S. HINGE		mb19A	
20.	ONE	3/8" CURVED PLATE 1/4"x1/2"	4'-2"	mb19A	
21.					
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51.					

APPROVED
For Main Dimensions and
Materials Only

SEP 11 2002

Ralph E. Anderson
Principal of Bridges and Traffic Structures

REVIEWED

NO EXCEPTION TAKEN REVISIONS

MAKE CORRECTIONS AS NOTED REVISIONS

PARSONS BRINCKERHOFF
QUALITY & DESIGN DIVISION

DATE: 2/13/02

BEFORE UTILIZED IN ORIGINAL PROJECT OR FOR ANY OTHER PROJECT, THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE DIMENSIONS AND MATERIALS OF THE STRUCTURE TO THE DIMENSIONS AND MATERIALS OF THE ORIGINAL STRUCTURE AND SUCH CONNECTIONS AS MAY BE NOTED HEREON. VERIFY ALL DIMENSIONS IN FIELD AND COORDINATE WORK WITH ADJOINING TRADES.

APPROVED
For Main Dimensions and
Materials Only

SEP 11 2002

Ralph E. Anderson
Principal of Bridges and Traffic Structures

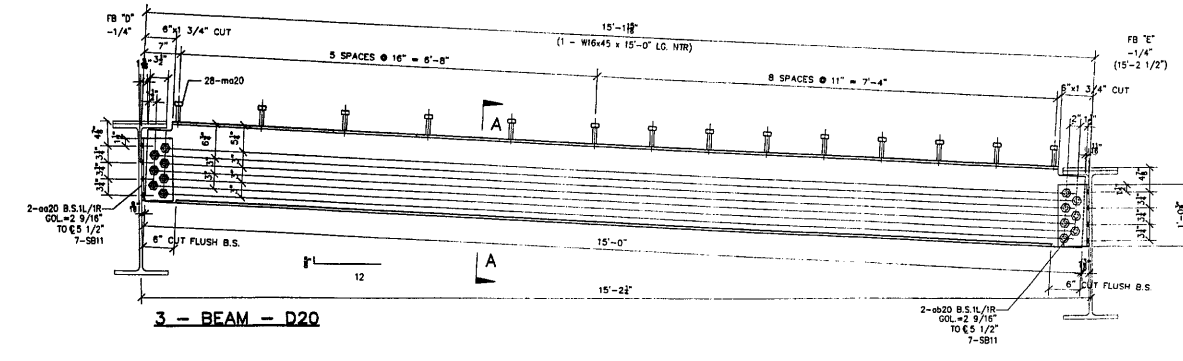
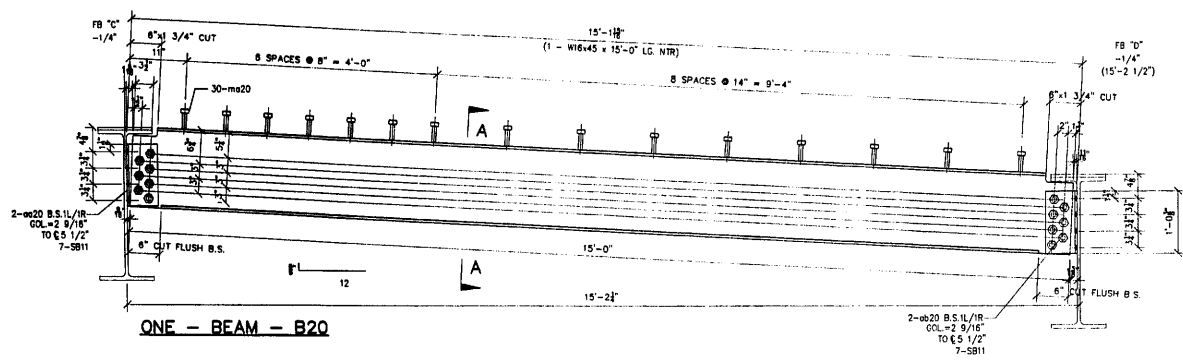
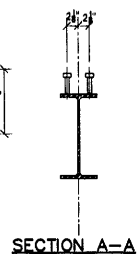
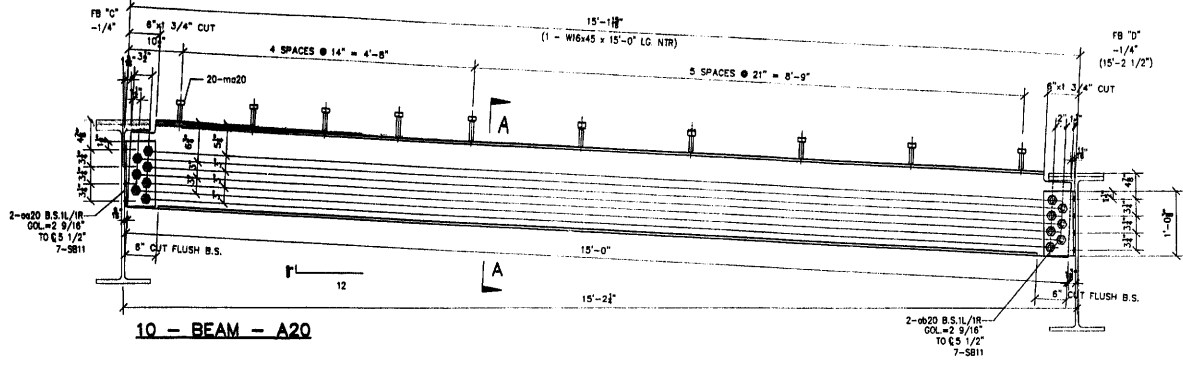
FIELD VERIFY ALL

SCALE: 1"=1'

APPROVAL/REVIEW AUTHORITY: I, <i>[Signature]</i> , IN THE CAPACITY OF THE PROJECT ENGINEER, HEREBY APPROVE THE DESIGN AND CONSTRUCTION OF THE STRUCTURE SHOWN ON THIS DRAWING FOR THE PURPOSES OF THE PROJECT. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE DESIGN OR CONSTRUCTION OF THE STRUCTURE. I AM NOT RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR PROPERTY CAUSED BY THE USE OF THIS DRAWING OR THE STRUCTURE. I AM NOT RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR PROPERTY CAUSED BY THE USE OF THIS DRAWING OR THE STRUCTURE. I AM NOT RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR PROPERTY CAUSED BY THE USE OF THIS DRAWING OR THE STRUCTURE.	PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX [MAT]=ASTM A 36 U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
NO. BY: REVISIONS DATE DRAWN BY: GAH DATE: 6/30/02 DATE: 7/24/02 DATE: 7/24/02	DATE: 6/30/02 DATE: 7/24/02 DATE: 7/24/02

D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE	REPAIR DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO:
ENGINEER	FAR. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-4-1-1	19A
ARCHITECT	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF STRUCTURE # 099-9901	



NO.	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.					
3.					
4.					
5.					
6.					
7.	10	W16x45	15'-0"	A20	NTR
8.	10	L 6 W 13/8	1'-0 3/8"	oa20	
9.	10	L 6 W 13/8	1'-0 3/8"	ob20	
10.	200	3/4" STUD	0'-4"	ma20	
11.	140	7/8" A325 BOLTS	0'-2 3/4"	SB11	
12.					
13.					
14.					
15.	ONE	W16x45	15'-0"	B20	NTR
16.	10			oa20	
17.	10			ob20	
18.	30			ma20	
19.	14			SB11	
20.					
21.					
22.					
23.	3	W16x45	15'-0"	D20	NTR
24.	30			oa20	
25.	30			ob20	
26.	84			ma20	
27.	42			SB11	
28.					
29.					
30.					
31.					
32.					
33.					
34.					
35.					
36.					
37.					
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39.					
40.					

REVIEWED

APPROVED FOR SHOP FABRICATION BY: *Ralph L. Anderson*
 ENGINEER OF DESIGN AND TRAFFIC STRUCTURE

REVIEWED BY: *J. J. ...*
 9/13/02

GENERAL NOTES

FIELD VERIFY ALL

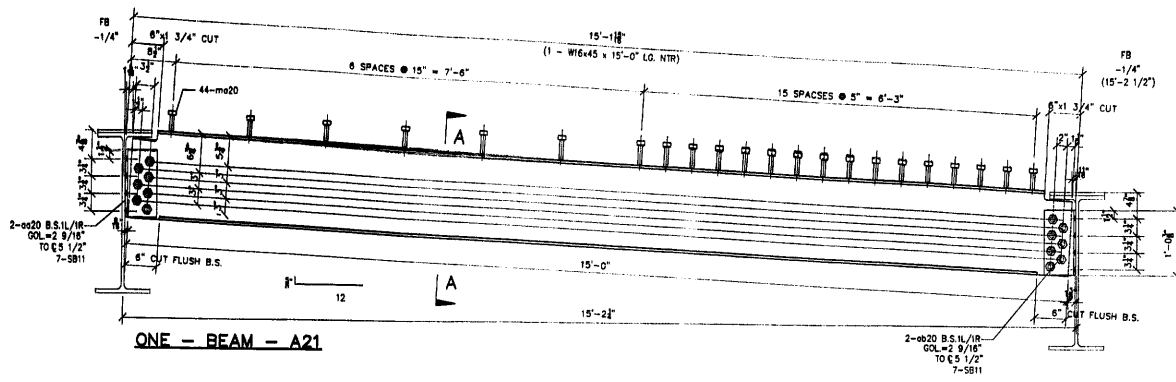
- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

APPROVED
 FOR SHOP FABRICATION AND MATERIAL ONLY
 SEP 11 2002
Ralph L. Anderson
 ENGINEER OF DESIGN AND TRAFFIC STRUCTURE

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY AND CONTACT THE ENGINEER IMMEDIATELY IF ANY CHANGES OR CORRECTIONS ARE REQUIRED. THIS IS THE RESPONSIBILITY OF THE ENGINEER. UNLESS NOTED TO THE CONTRARY, ALL DIMENSIONS ARE IN FEET AND INCHES. DIMENSIONS SHALL BE TO UNLESS OTHERWISE SPECIFIED. DIMENSIONS SHALL BE TO UNLESS OTHERWISE SPECIFIED. DIMENSIONS SHALL BE TO UNLESS OTHERWISE SPECIFIED. DIMENSIONS SHALL BE TO UNLESS OTHERWISE SPECIFIED.	PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX (MAYL=ASTM A 36) U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
NO. BY REVISIONS DATE DRAWN BY: GAH 1 GAH ISSUED FOR APPROVAL 7/25/02 DATE: 6/12/02 2 GAH RE-CHECKED FOR APPROVAL 8/19/02 CHECKED BY: 3 GAH REWORK FOR COMMENTS 8/28/02 DATE:	APPROVED:

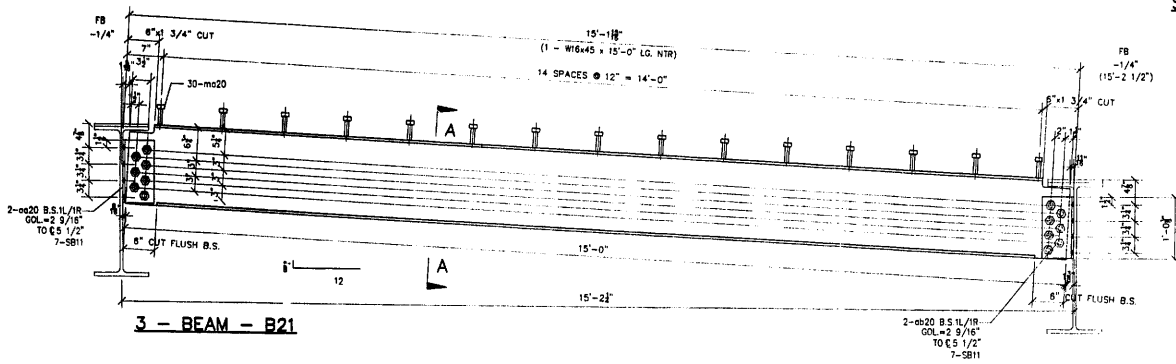


ERECTOR DWG. E3 SCALE: 1"=1'		JOB NO:
SHEET TITLE	BEAM DETAILS	
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO:
ENGINEER	FAR. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION 11-B-DR-4-1-1	20
ARCHITECT	HILL COUNTY, ILLINOIS	
	PARSONS BRINCKERHOFF	
	STRUCTURE # 059-5901	

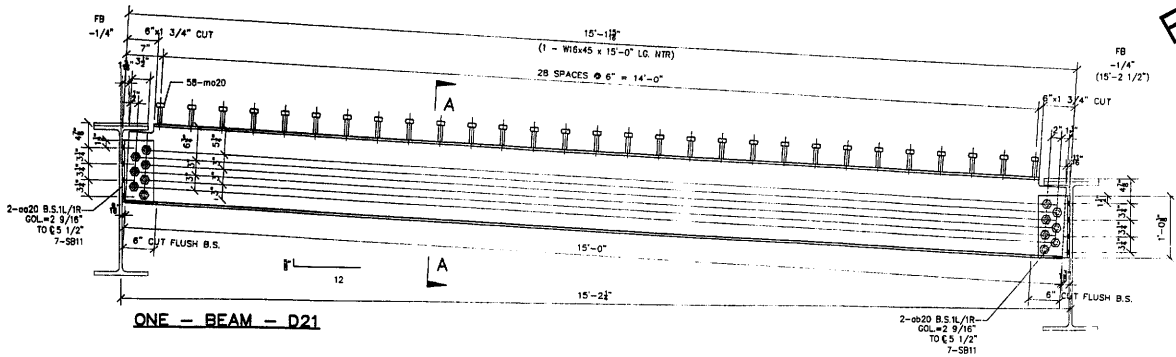


ONE - BEAM - A21

SECTION A-A



3 - BEAM - B21



ONE - BEAM - D21

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.					
3.					
4.					
5.					
6.					
7.	ONE	W16x45	15'-0"	A21	NTR
8.	16	L 6"x4"x3/8"	1'-0" 3/8"	ø20	
9.	16	L 6"x4"x3/8"	1'-0" 3/8"	ø20	
10.	44	3/4" STUD	0'-4"	m20	
11.	14	7/8" A325 BOLTS	0'-2 3/4"	S811	
12.					
13.					
14.					
15.	3	W16x45	15'-0"	B21	NTR
16.	3			ø20	
17.	3			ø20	
18.	30			m20	
19.	42			S811	
20.					
21.					
22.	ONE	W16x45	15'-0"	D21	NTR
23.	16			ø20	
24.	16			ø20	
25.	14			m20	
26.	58			m20	
27.	14			S811	
28.					
29.					
30.					
31.					
32.					
33.					
34.					
35.					
36.					
37.					
38.					
39.					
40.					

REVIEWED
 NO ERRORS FOUND REVISIONS
 MAKE REVISIONS AS NOTED COMMENTS
APPROVED
 For Main Dimensions and Materials Only
 SEP 17 2002
 Ralph E. Anderson
 Engineer of Bridges and Traffic Structures

FIELD VERIFY ALL

GENERAL NOTES
 1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
 2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
 3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M148 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
 4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
 5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
 6. CLEAN & PAINT:
 A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
 7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

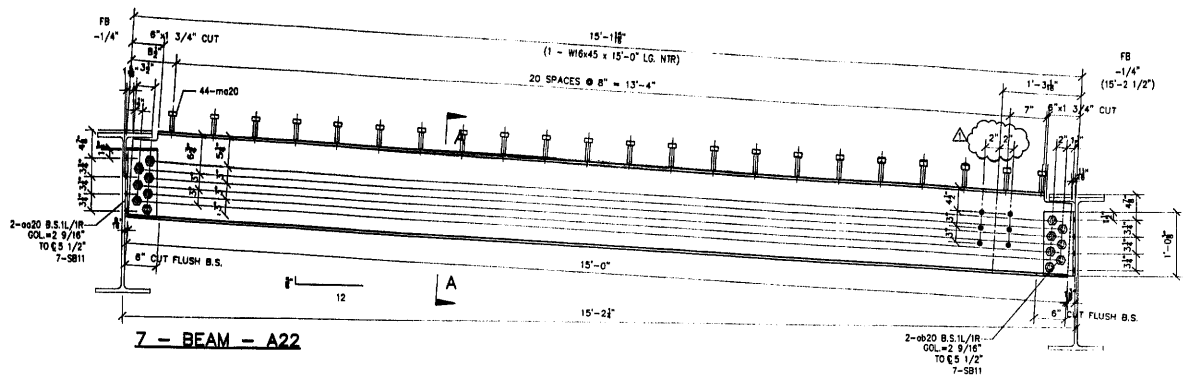
APPROVED
 For Main Dimensions and Materials Only
 SEP 11 2002
 Ralph E. Anderson
 Engineer of Bridges and Traffic Structures

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY FOR ALL DIMENSIONS, MATERIALS, AND SPECIFICATIONS. FOR ANY CHANGES, CONTACT THE DESIGNER FOR THE APPROPRIATE APPROVAL.		PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	
NO	BY	REVISIONS	DATE
1	GAH	ISSUED FOR APPROVAL	7/20/02
2	GAH	RE-ISSUED FOR APPROVAL	8/19/02
3	GAH	REVISED FOR COMMENTS	8/28/02
		DATE	APPROVED:

D' CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1408 SO. BROADWAY
 COAL CITY, ILLINOIS 60416

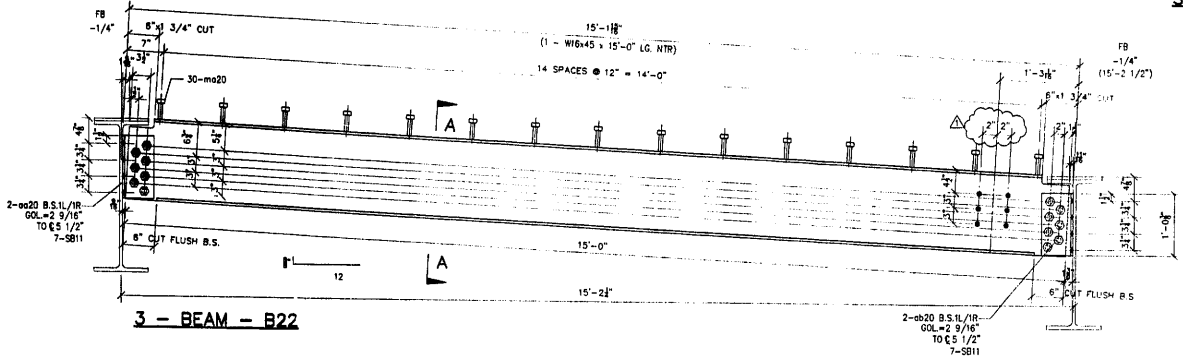
ERECTOR DWG. E3 SCALE: 1"=1'		JOB NO:
SHEET TITLE	BEAM DETAILS	
STRUCTURE	BRIDGE REHABILITATION	SHEET NO:
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96	
ENGINEER	FAP. ROUTE 112 (ALTONS 53 RURY STREET) SECTION H-B-DR-41-1	
ARCHITECT	WILL COUNTY, ILLINOIS	
	PARSONS BRINCKERHOFF	
	STRUCTURE # 089-8901	

NO.	QUANTITY	DESCRIPTION	LENGTH	MARK	REMARKS
1.					
2.					
3.					
4.					
5.					
6.					
7.	7	W16x45	15'-0"	A22	NTR
8.	7	L 6"x4"x3/8"	1'-0 3/8"	o20	
9.	7	L 6"x4"x3/8"	1'-0 3/8"	o20	
10.	308	3/4" STUD	0'-4"	o20	
11.	98	7/8" A325 BOLTS	0'-2 3/4"	SB11	
12.					
13.					
14.					
15.	3	W16x45	15'-0"	B22	NTR
16.	3			o20	
17.	3			o20	
18.	30			o20	
19.	42			SB11	
20.					
21.					
22.					
23.	ONE	W16x45	15'-0"	D22	NTR
24.	1			o20	
25.	1			o20	
26.	58			o20	
27.	14			SB11	
28.					
29.					
30.					
31.					
32.					
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36.					
37.					
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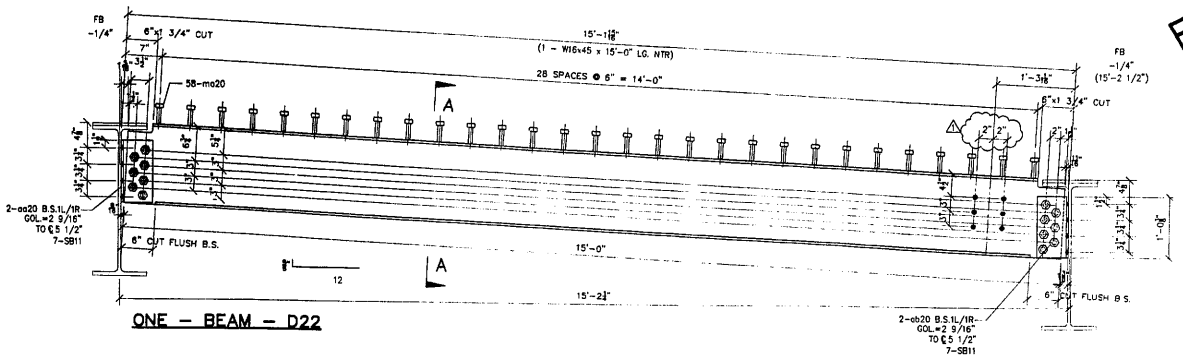


7 - BEAM - A22

SECTION A-A



3 - BEAM - B22



ONE - BEAM - D22

FIELD VERIFY ALL

REVIEWED

NO EXCEPTION TAKEN REJECTED
 MAKE CORRECTIONS AS NOTED REVISIONS
PARSONS BRINCKERHOFF
 GUARD & DOUGLAS, INC.
 BY: J. [Signature] DATE: 9/3/02
 REVIEW APPLICABLE TO GENERAL ARRANGEMENT, DETAILS AND DIMENSIONS NOT TO THE SUFFICIENCY AND FUNCTIONAL PERFORMANCE TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND SUCH CORRECTIONS AS MAY BE NOTED IN FIELD. COORDINATE WORK WITH ADJOINING TRADES.

APPROVED

For Main Dimensions and Materials Only
 SEP 17 2002
 [Signature]
 Engineer of Bridges and Traffic Structures

GENERAL NOTES

1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPEC.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M148 GAL. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
6. CLEAN & PAINT:
 A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS" ZONE 2"

APPROVED

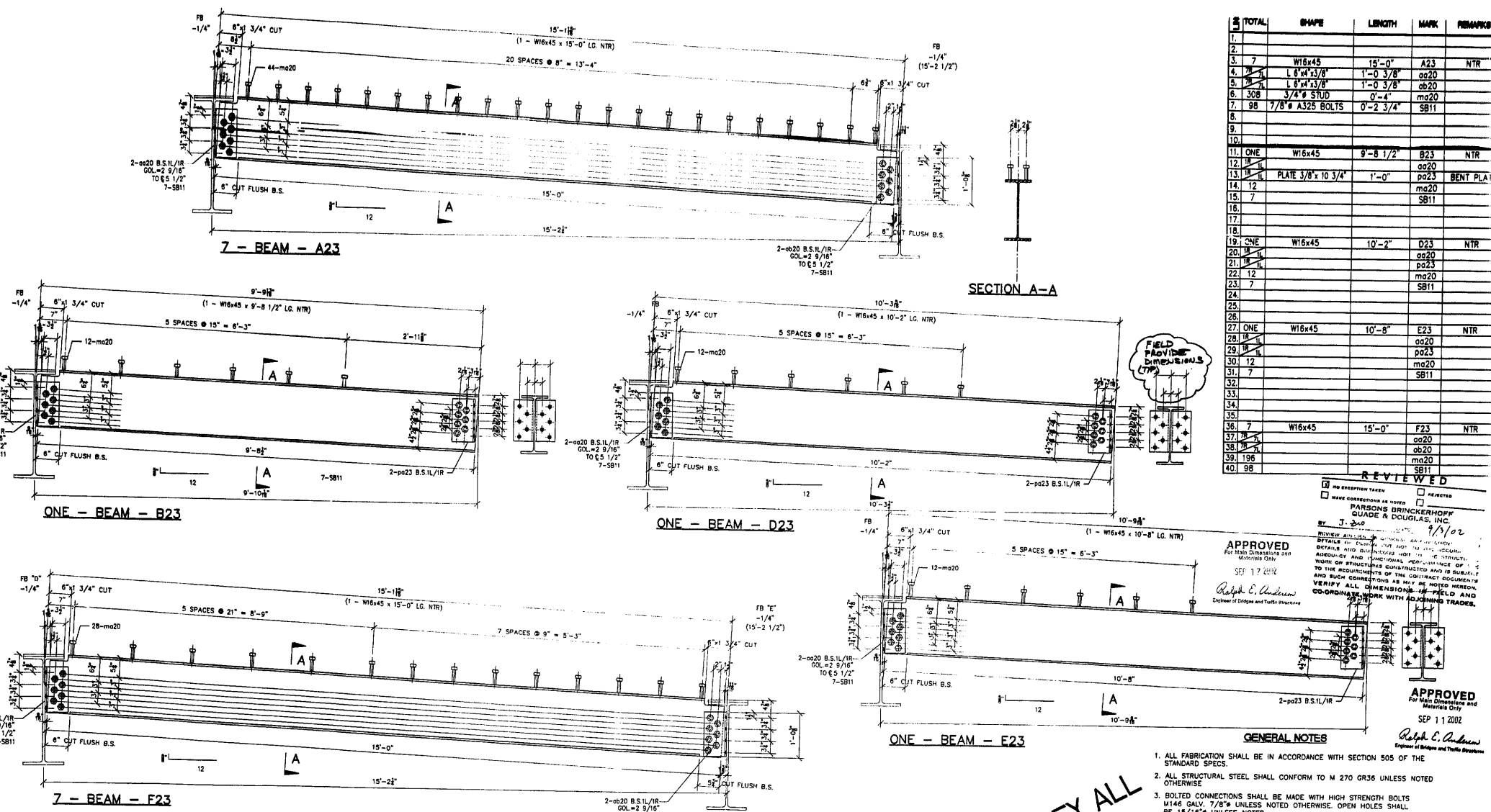
For Main Dimensions and Materials Only
 SEP 11 2002
 [Signature]
 Engineer of Bridges and Traffic Structures

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. CORRECTIONS AND REVISIONS SHOULD BE MADE BY THE DESIGNER OR ENGINEER. THE DESIGNER OR ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION AND DATA PROVIDED. THE DESIGNER OR ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION AND DATA PROVIDED. THE DESIGNER OR ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION AND DATA PROVIDED.	PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" WELDS: E70XX M11-A51M A 36 U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	WELDS: 1/4" DATE: 6/12/02 DATE: 6/12/02 DATE: 6/12/02
NO. BY REVISIONS DATE DRAWN BY: GAH GAH REVISED HOLE SPACING 6/30/02 GAH ISSUED FOR APPROVAL 7/2/02 GAH REVISED FOR COMMENTS 8/2/02		



D' CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1488 SO. BROADWAY
 COAL CITY, ILLINOIS 60416

ERECTION DWG. EQ SCALE: 1"=1'		SHEET TITLE: BEAM DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	CONTRACT # 80193 PROJECT # C-91-366-96	SHEET NO:
LOCATION	F.A.P. ROUTE 112 (LINDS 53 RUBY STREET) SECTION II-B-DR-4-1	WILL COUNTY, ILLINOIS	22
ENGINEER	PARSONS BRINCKERHOFF	STRUCTURE # 089-9901	
ARCHITECT			



#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.					
3.	7	W16x45	15'-0"	A23	NTR
4.	1	L 6"x4"x3/8"	1'-0 3/8"	oa20	
5.	1	L 6"x4"x3/8"	1'-0 3/8"	ob20	
6.	308	3/4" STUD	0'-4"	ma20	
7.	98	7/8" A325 BOLTS	0'-2 3/4"	SB11	
8.					
9.					
10.					
11.	ONE	W16x45	9'-8 1/2"	B23	NTR
12.	1			oa20	
13.	1	PLATE 3/8" x 10 3/4"	1'-0"	pa23	BENT PLATE
14.	12			ma20	
15.	7			SB11	
16.					
17.					
18.	ONE	W16x45	10'-2"	D23	NTR
19.	1			oa20	
20.	1			pa23	
21.	12			ma20	
22.	7			SB11	
23.					
24.					
25.					
26.					
27.	ONE	W16x45	10'-8"	E23	NTR
28.	1			oa20	
29.	1			pa23	
30.	12			ma20	
31.	7			SB11	
32.					
33.					
34.					
35.					
36.	7	W16x45	15'-0"	F23	NTR
37.	1			oa20	
38.	1			ob20	
39.	196			ma20	
40.	98			SB11	

REVIEWED
 NO EXCEPTION TAKEN REJECTED
 MAKE CORRECTIONS AS NOTED REVISIONS
PARSONS BRINCKERHOFF
 QUADE & DOUGLAS, INC.
 BY: J. DALO 1/10/02
 REVIEWED FOR CONFORMANCE WITH ALL SPECIFICATIONS AND DETAILS AND FOR THE CORRECTNESS OF THE STRUCTURE, MATERIALS AND DIMENSIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE DIMENSIONS AND IS SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND SUCH CORRECTIONS AS MAY BE NOTED HEREON. VERIFY ALL DIMENSIONS IN FIELD AND CO-ORDINATE WORK WITH ADJOINING TRADES.

APPROVED
 For Shop Dimensions and Materials Only
 SEP 17 2002
 Ralph E. Anderson
 Engineer in Charge and Traffic Inspector

APPROVED
 For Shop Dimensions and Materials Only
 SEP 11 2002
 Ralph E. Anderson
 Engineer in Charge and Traffic Inspector

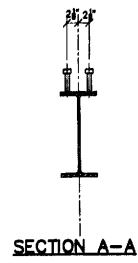
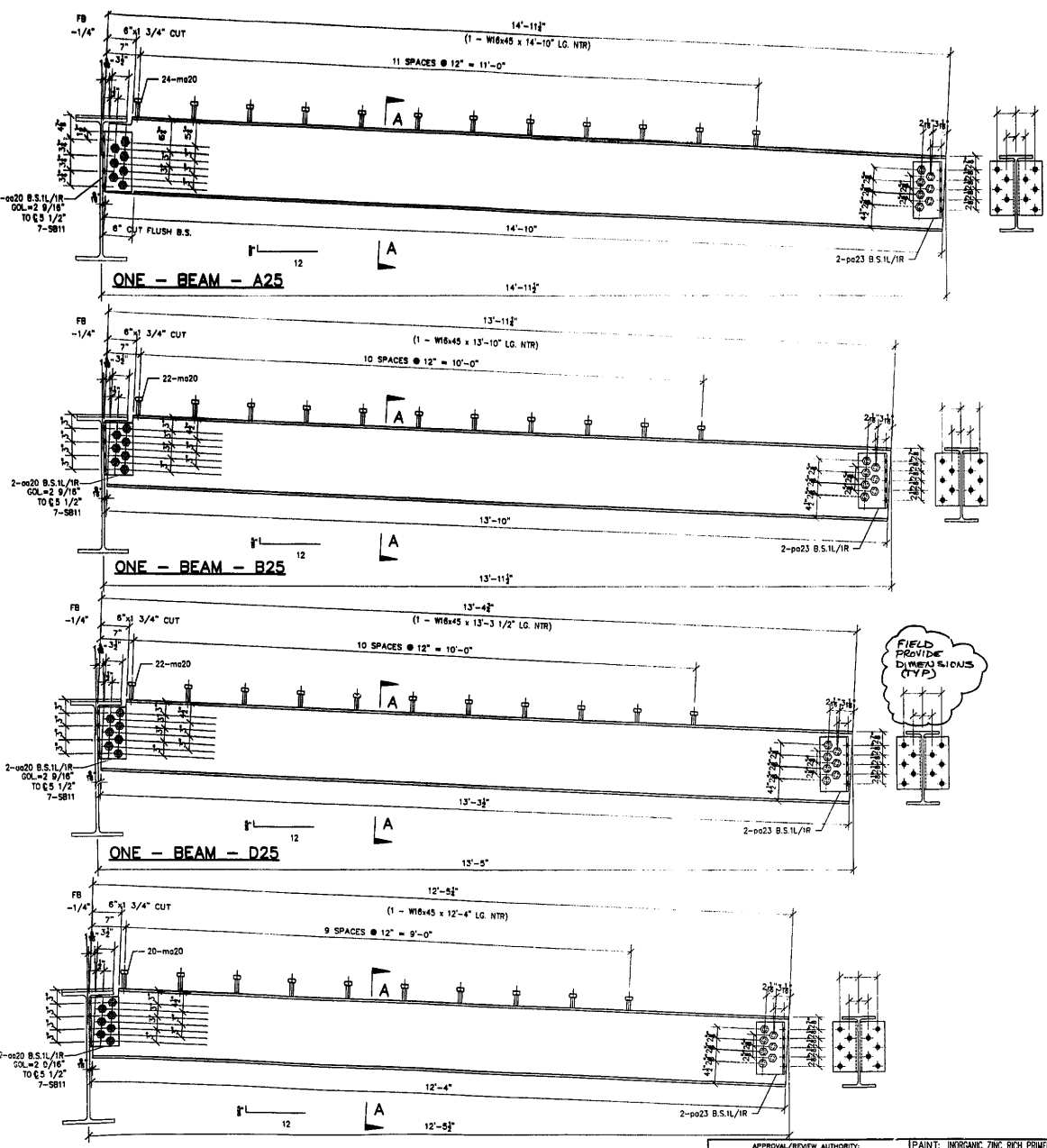
- GENERAL NOTES**
1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
 2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
 3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS 1/4" GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 1/16" UNLESS NOTED.
 4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
 5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
 6. CLEAN & PAINT:
 A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSSP-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
 7. NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2
- ERECTION DWG. E3 SCALE: 1"=1'

FIELD VERIFY ALL

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY FOR CORRECTNESS AND COMPLETENESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE DIMENSIONS AND IS SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND SUCH CORRECTIONS AS MAY BE NOTED HEREON. VERIFY ALL DIMENSIONS IN FIELD AND CO-ORDINATE WORK WITH ADJOINING TRADES. APPROVED FOR THE CONTRACTOR: DATE: 6/12/02 APPROVED FOR THE ARCHITECT: DATE: 6/12/02	PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX (MATERIAL ASTM A 36) U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES NO. BY REVISIONS DATE DRAWN BY: CAH CAH ISSUED FOR APPROVAL 7/21/02 DATE: 6/12/02 CAH RE-ISSUED FOR APPROVAL 8/14/02 CHECKED BY: CAH REVISED PER COMMENTS 8/14/02 DATE: APPROVED:
---	---

D' CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1488 SO. BROADWAY
 COAL CITY, ILLINOIS 60416

SHEET TITLE	BEAM DETAILS	JOB NO.:
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO.:
ENGINEER	FAP. ROUTE 112 (LINKS 53 RUBY STREET) SECTION W-9-IR-4-1-1	23
ARCHITECT	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF STRUCTURE # 099-9901	



#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.					
3.					
4.					
5.					
6.					
7.	ONE	W16x45	14'-10"	A25	NTR
8.	1	L 6"x4 13/8"	1'-0 3/8"	oo20	
9.	1	PLATE 3/8"x10 3/4"	1'-0"	oo23	BENT PLATE
10.	24	3/4" STUD	0'-4"	mo20	
11.	14	7/8" A325 BOLTS	0'-2 3/4"	SB11	
12.					
13.					
14.					
15.	ONE	W16x45	13'-10"	B25	NTR
16.	1			oo20	
17.	1			oo23	
18.	22			mo20	
19.	14			SB11	
20.					
21.					
22.					
23.	ONE	W16x45	13'-3 1/2"	D25	NTR
24.	1			oo20	
25.	1			oo23	
26.	22			mo20	
27.	14			SB11	
28.					
29.					
30.					
31.	ONE	W16x45	12'-4"	E25	NTR
32.	1			oo20	
33.	1			oo23	
34.	20			mo20	
35.	14			SB11	
36.					
37.					
38.					
39.					
40.					

FIELD VERIFY ALL

APPROVED
For Main Drawings and
Materials Only
SEP 17 2002
Ralph C. Anderson
Engineer of Bridges and Traffic Structures

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO A 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M148 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 1/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZNK H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

REVIEWED

NO EXCEPTION TAKEN REJECTS
 HAVE CORRECTIONS AS NOTED REVISIONS

APPROVED
For Main Drawings and
Materials Only

SEP 11 2002
Ralph C. Anderson
Engineer of Bridges and Traffic Structures

PARSONS BRINCKERHOFF
QUADE & DOUGLAS, INC.
BY: J. Z. [Signature] DATE: 9/3/02

REVIEW APPLIES TO GENERAL ARRANGEMENT ONLY & DETAILS OF DESIGN ARE NOT TO THE ACCURACY & ADEQUACY AND FUNCTIONAL PERFORMANCE OF THE WORK OR STRUCTURES CONSTRUCTED AND IS SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND SUCH CORRECTIONS AS MAY BE NOTED HEREON. VERIFY ALL DIMENSIONS IN FIELD AND BEAM DETAILS WITH ADJACENT SHEET NOTES.

ERECTION DWG. BEAM DETAILS

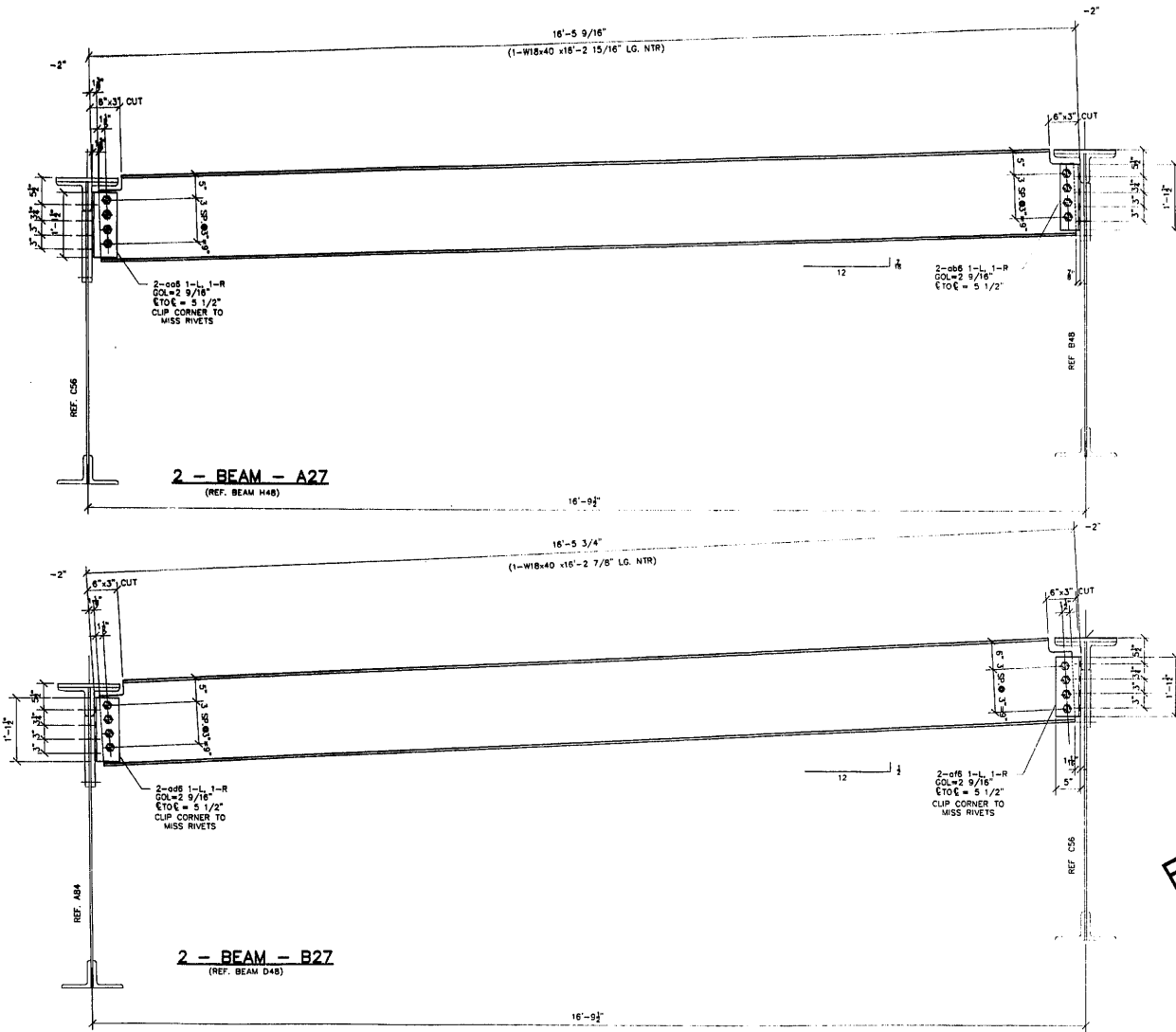
ONE - BEAM - E25

APPROVAL/REVIEW AUTHORITY:
PLEASE REVIEW THIS DRAWING CAREFULLY.
FOR THE DESIGN OF THE STRUCTURE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS AND THE MATERIALS USED IN THE FABRICATION OF THE STRUCTURE.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS AND THE MATERIALS USED IN THE FABRICATION OF THE STRUCTURE.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS AND THE MATERIALS USED IN THE FABRICATION OF THE STRUCTURE.

PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4"
HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 } U.N.
WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
NO BY REVISIONS DATE/DRAWN BY: CAH
CAH ISSUED FOR APPROVAL 7/10/02 DATE: 6/12/02
CAH RE-ISSUED FOR APPROVAL 8/1/02 CHECKED BY:
CAH REVISED PER COMMENTS 8/28/02 DATE:
APPROVED:

DP D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1436 SO. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE	BRIDGE REHABILITATION	SHEET NO.	25
STRUCTURE	CONTRACT # 60193 PRODUCT # C-91-366-96		
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION 11-B-DR-4-1-1		
ENGINEER	WILL COUNTY, ILLINOIS		
ARCHITECT	PARSONS BRINCKERHOFF		
	STRUCTURE # 099-9901		



NO.	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.					
3.					
4.					
5.					
6.					
7.	2	W18x40	16'-2 15/16"	A27	NTR
8.	2	L 5"x5"x3/8"	1'-1 1/2"	006	
9.	2	L 5"x5"x3/8"	1'-1 1/2"	006	CUT DOWN
10.	16	7/8" A325 BOLTS	0'-2 3/4"	SB11	
11.					
12.					
13.					
14.	2	W18x40	16'-2 7/8"	B27	NTR
15.	2	L 5"x5"x3/8"	1'-1 1/2"	006	CUT DOWN
16.	2	L 5"x5"x3/8"	1'-1 1/2"	016	CUT DOWN
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REVIEWED

APPROVED
For Main Dimensions and Materials Only

SEP 17 2002

Ralph C. Anderson
Partner of Bridges and Traffic Structures

NO EXCEPTION TAKEN REJECTED

HAVE CONNECTIONS BE NOTED PARSONS BRINCKERHOFF

BY: *J. J. ...* 7/3/02

REVIEW SUBJECT TO GENERAL AND
DETAILS OF CONNECTIONS TO BE
WORKING OR STRUCTURES CONSTRUCTED AND IS SUBJECT
TO THE REQUIREMENTS OF THE CONTRACT INCLUDING
AND SUCH CONNECTIONS AS MAY BE NOTED HEREON.
VERIFY ALL DIMENSIONS IN FIELD AND
COORDINATE WORK WITH ADJOINING TRADES.

- GENERAL NOTES**
- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
 - ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
 - BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 CALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
 - STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
 - IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE ROUND SMOOTH.
 - CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
 - NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

FIELD VERIFY ALL

APPROVED
For Main Dimensions and Materials Only

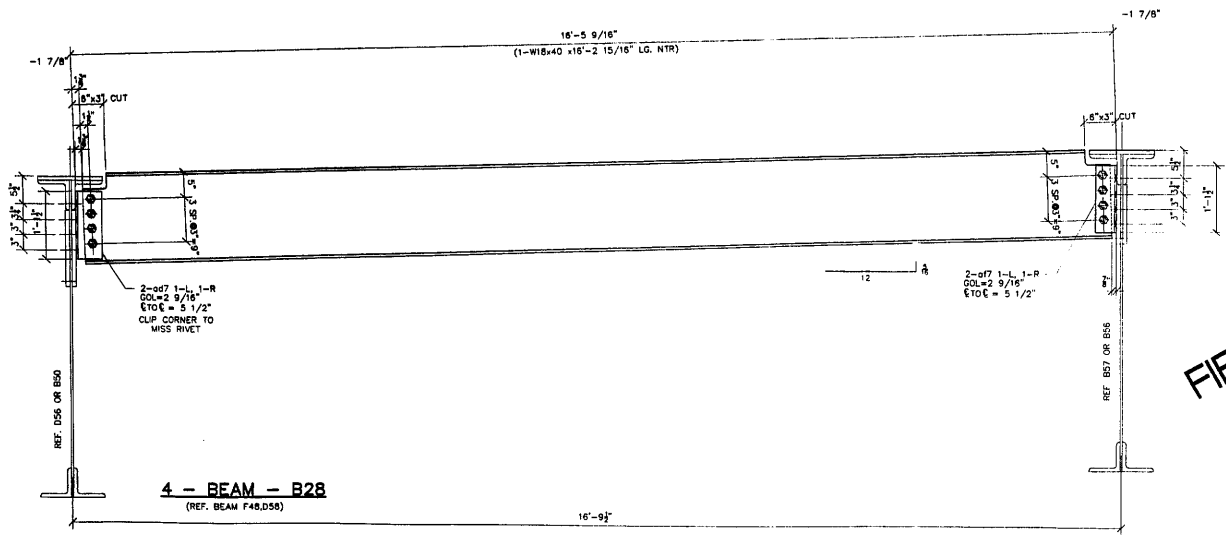
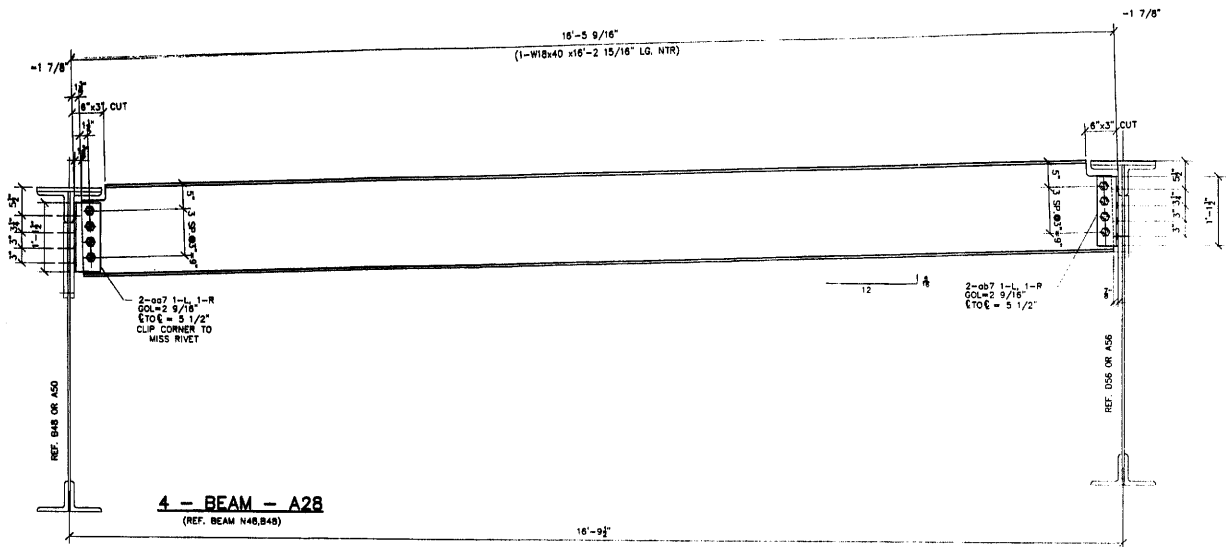
SEP 11 2002

Ralph C. Anderson
Partner of Bridges and Traffic Structures

PLEASE APPROVAL/REVIEW AUTHORITY: IT IS THE RESPONSIBILITY OF THE DESIGNER TO PROVIDE ALL NECESSARY DATA FOR THE FABRICATOR TO CONSTRUCT THE STRUCTURE AND TO VERIFY THE DIMENSIONS OF THE FABRICATED STRUCTURE AGAINST THE DRAWINGS AND SPECIFICATIONS. THE FABRICATOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE STRUCTURE FROM DAMAGE DURING CONSTRUCTION AND FOR THE PROTECTION OF THE PUBLIC.		PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 } U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	
NO.	BY	REVISIONS	DATE
1	GAH	ISSUED FOR APPROVAL	8/05/02
DRAWN BY: GAH		DATE: 8/05/02	
CHECKED BY:		DATE:	
APPROVED:		DATE:	

D'D CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1488 SO. BROADWAY
 COAL CITY, ILLINOIS 60416

ERECTION DWG. E1 SCALE: 1"=1'		
SHEET TITLE	BEAM DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	SHEET NO:
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96 E.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION W-9-DR-44-1	
ENGINEER	WILL COUNTY, ILLINOIS	
ARCHITECT	PARSONS BRINCKERHOFF STRUCTURE # 099-9901	



ITEM	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.					
3.					
4.					
5.					
6.					
7.	4	W18x40	16'-2 15/16"	A28	NTR
8.	4	L 8"x5"x3/8"	1'-1 1/2"	007	
9.	4	L 5"x5"x3/8"	1'-1 1/2"	007	CLIP
10.	32	7/8" A325 BOLTS	0'-2 3/4"	SB11	
11.					
12.					
13.					
14.	4	W18x40	16'-2 15/16"	B28	NTR
15.	4	L 8"x5"x3/8"	1'-1 1/2"	007	CLIP
16.	4	L 4"x4"x3/8"	1'-1 1/2"	017	
17.	32			SB11	
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REVIEWED

NO EXCEPTION TAKEN REVISIONS

MAKE CORRECTIONS AS NOTED REVISIONS

APPROVED
For Main Dimensions and Materials Only

SEP 17 2002

Ralph E. Anderson
Engineer of Bridges and Traffic Structures

PARSONS BRINCKERHOFF
CLAUDE R. DOUGLAS, INC.

DATE: 9/1/02

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 805 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK M.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

FIELD VERIFY ALL

APPROVED
For Main Dimensions and Materials Only

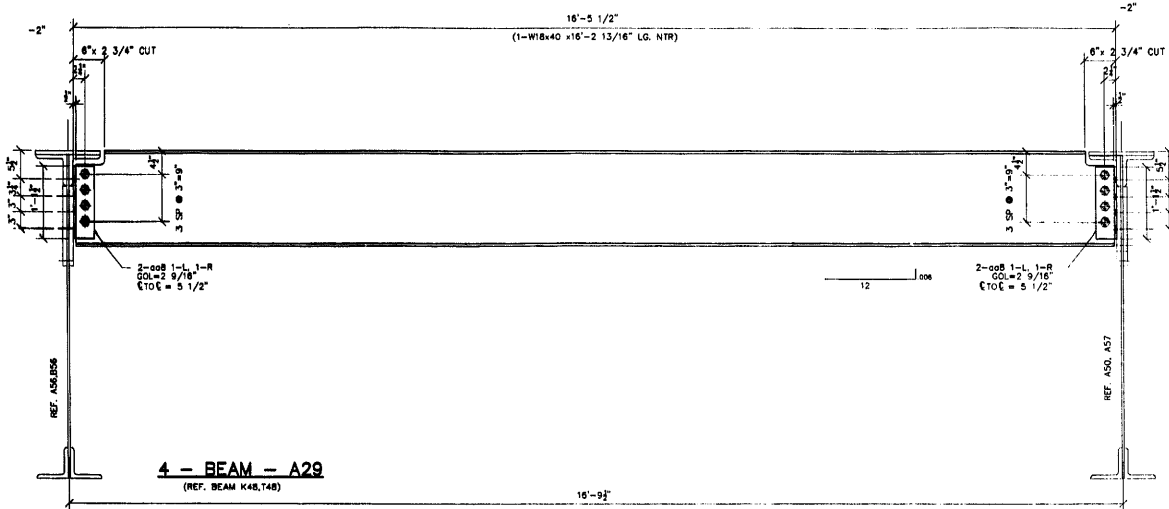
SEP 11 2002

Ralph E. Anderson
Engineer of Bridges and Traffic Structures

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. FOR THE CONTRACTOR'S USE ONLY. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS APPROVED BY THE CONTRACTOR'S AUTHORITY. ANY CHANGES TO THIS DRAWING MUST BE MADE BY THE CONTRACTOR'S AUTHORITY.		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	
NO.	BY	REVISIONS	DATE
1	GAH	ISSUED FOR APPROVAL	8/05/02
2		CHECKED BY:	
3		DATE:	
4		APPROVED:	



ERECTOR DWG. <input checked="" type="checkbox"/>		SCALE: 1"=1'
SHEET TITLE	BEAM DETAILS	
LOCATION	BRIDGE REHABILITATION CONTRACT # 60193 PROJECT # C-91-366-96 EAP. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-4-1-1	
ENGINEER	PARSONS BRINCKERHOFF	
ARCHITECT	STRUCTURE # 099-9501	
JOB NO:		
SHEET NO:	28	



FIELD VERIFY ALL

NO	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.					
3.					
4.					
5.					
6.					
7.	4	W18x40	18'-2 13/16"	A29	NTR
8.	1	L 4"x4"x3/8"	1'-1 1/2"	008	
9.	32	7/8" A325 BOLTS	0'-2 3/4"	S811	
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REVIEWED

NO CORRECTIONS TAKEN REJECTED

MAKE CORRECTIONS AS NOTED REJECTED

APPROVED
For Math Dimensions and
Materials Only

SEP 11 2002

Robert E. Anderson
Engineer of Bridges and Traffic Structures

BY: *J. Z...*
DATE: 9/11/02

REVIEW APPLIED TO STRUCTURE # 099-9901

DETAILS AND DIMENSIONS LIST TO THE STRUCTURAL
ADEQUACY AND FUNCTIONAL PERFORMANCE OF THE
WORK OR STRUCTURES CONSTRUCTED AND IS SUBJECT
TO THE REQUIREMENTS OF THE CONTRACT DOCUMENT,
AND SUCH CORRECTIONS AS MAY BE NOTED HEREON.
VERIFY ALL DIMENSIONS IN FIELD AND
COORDINATE WORK WITH ADJOINING TRADES.

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR38 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

APPROVED
For Math Dimensions and
Materials Only

SEP 11 2002

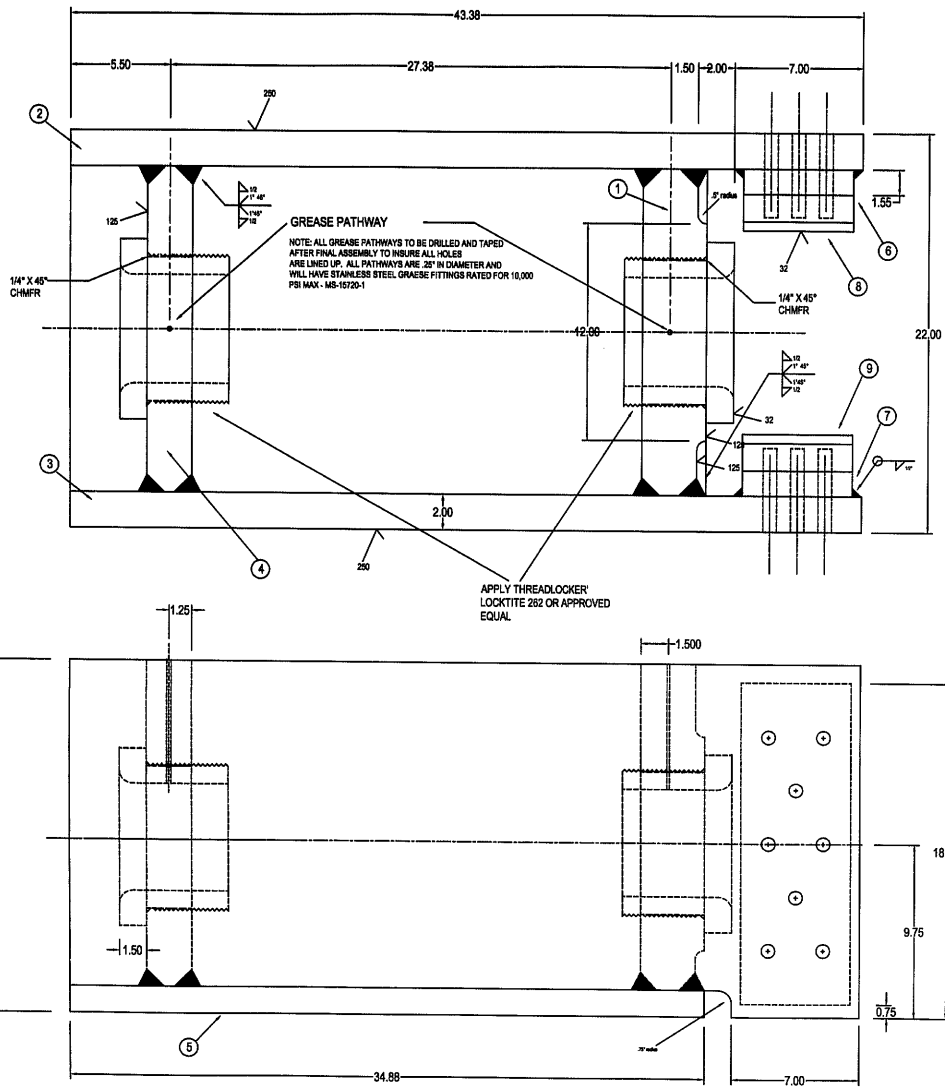
Robert E. Anderson
Engineer of Bridges and Traffic Structures

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY FOR THE ACCURACY OF THE DIMENSIONS AND MATERIALS LISTED. THE FIELD ENGINEER IS RESPONSIBLE FOR THE VERIFICATION OF THE DIMENSIONS AND MATERIALS LISTED IN THE DRAWING.		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX (MIL) = ASTM A 36 WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES } U.N.	
NO	BY	REVISIONS	DATE
1	GAH	ISSUED FOR APPROVAL	8/05/02
		CHECKED BY:	
		DATE:	
		APPROVED:	

D'D CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

ERECTOR DWG. E1 SCALE: 1"=1'

SHEET TITLE	BEAM DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	
	CONTRACT # 50193 PROJECT # C-91-366-98	SHEET NO:
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 33 RUBY STREET) SECTION N-B-DR-4-I-1	29
ENGINEER	PARSONS BRINCKERHOFF	
ARCHITECT	STRUCTURE # 099-9901	



CENTER LOCK BOX
(2 REQUIRED)

PARTS AND MATERIALS		
PART #	DESCRIPTION	DIMENSIONS AND MATERIAL TYPE
1	BULKHEAD	3.50" X 18.00" X 18.25" ASTM A709 GR 50
2	SIDE PLATE	2.00" X 19.75" X 43.38" ASTM A709 GR 50
3	SIDE PLATE	2.00" X 19.75" X 43.38" ASTM A709 GR 50
4	BULKHEAD	2.50" X 18.00" X 18.25" ASTM A709 GR 50
5	BASE PLATE	1.50" X 22.00" X 34.88" ASTM A709 GR 50
6	SPACER	1.55" X 6.00" X 18.00" ASTM A709 GR 50
7	SPACER	1.55" X 6.00" X 18.00" ASTM A709 GR 50
8	BEARING	2.00" X 6.00" X 18.00" ASTM A709 GR 50
9	BEARING	2.00" X 6.00" X 18.00" ASTM A709 GR 50

NOTE: ALL MOUNTING HOLES TO BE DRILLED AND TAPPED AFTER FINAL ASSEMBLY TO INSURE ALL HOLES ARE LINED UP WITH EXISTING STRUCTURE.

NOTE: ALL NEW AND BARE STEEL WILL BE COATED WITH GREASE. ALL NEW STEEL THAT REQUIRES PROTECTION WILL BE PAINTED OR IN THE CASE OF INTERFACES BETWEEN TWO METALS, THESE AREAS WILL RECEIVE A COAT OF ZINC-CHROMATE PRIMER PRIOR TO ASSEMBLY.

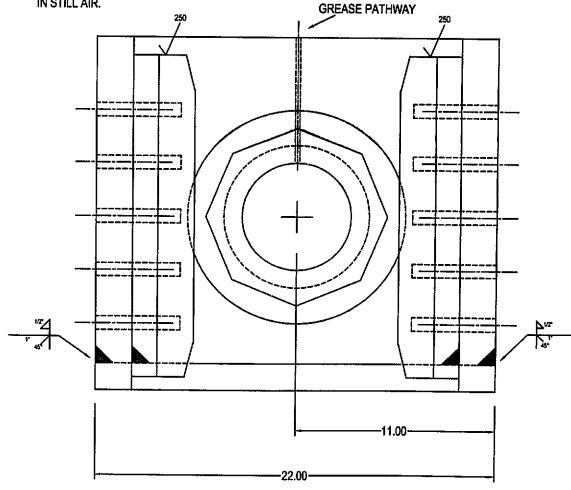
STRESS-RELIEVING AFTER WELDING: ENTIRE ASSEMBLY IS TO BE STRESS-RELIEVED AFTER WELDING. THE BULK HEADS ARE TO BE PREHEATED TO 250-300° F BEFORE WELDING. BEVELING OF PLATES WILL INSURE BETTER PENETRATION. MAX INTERPASS TEMPERATURE IS 450° F.

AFTER WELDING ALL OF THE WELDMENTS MUST BE STRESS-RELIEVED BY HEATING AT 100° F/HOUR TO 1100° F FOR 3 HOURS, THEN COOLING AT 100° F/HOUR TO 600° F, AFTER WHICH THE WELDMENT IS COOLED IN STILL AIR.

NOTE: SHIELDED ARC: AWS E7018 [HOBART 418 OR 718C; ESAB ATOM ARC E7018-1; OR LINCOLN LH-70] HEAT RANGE 25-45 KJ/IN

GAS METAL ARC WELDING: AWS ER70S-3, 90 %Ar/ 10% CO2 COVER GAS [LINCOLN SUPERARC L-50; HOBART HB-25; ESAB SPOOLARC 52] HEAT RANGE 40-70 KJ/IN; MAX INTERPASS TEMP, 400F

WELDMENTS SHALL HAVE MIN CIV/TOUGHNESS OF 15ft/lbs AT 40°F BY IDOT WELDED NOTCH TOUGHNESS TEST OF 60° V-GROOVE PARTIAL PENETRATION WELD JOINT PER SUBMITTED SAMPLES FOR ER70S-3 AND A709 GR. 50



ANZEIC WELDING & FABRICATING, INC.
 322 MOORE AVE. / JOLIET, IL 60438
 PHONE: 815-728-9686 / FAX: 815-728-6488

APPROVED BY: J.L.A.
 REVISIONS:

DATE: 9/24/02

RUBY ST. BRIDGE REHABILITATION

SHEET 1 OF 13

APPROVED
 For Main Dimensions and
 Materials Only
 DEC 16 2002
Ralph L. Anderson
 Engineer - ASME and ASME - Professional

RUBY STREET BRIDGE REHABILITATION
 WILL COUNTY
 SECTION: M-B-DR-4-I-1
 C-91-366-96
 SN 099-9901
 CONTRACT NO. 60193

TOLERANCE	
.0	.180"
.00	.090"
.000	.045"
UNLESS OTHERWISE SPECIFIED	

STRESS-RELIEVING AFTER WELDING: ENTIRE ASSEMBLY IS TO BE STRESS-RELIEVED AFTER WELDING. THE BULK HEADS ARE TO BE PREHEATED TO 250-300° F BEFORE WELDING. BEVELING OF PLATES WILL INSURE BETTER PENETRATION. MAX INTERPASS TEMPERATURE IS 450° F. AFTER WELDING ALL OF THE WELDMENTS MUST BE STRESS-RELIEVED BY HEATING AT 100° F/HOUR TO 1100° F FOR 3 HOURS, THEN COOLING AT 100° F/HOUR TO 600° F, AFTER WHICH THE WELDMENT IS COOLED IN STILL AIR.

NOTE: WELD MATERIAL TO BE AS FOLLOWS SHIELDED ARC: AWS E7018 [HOBART 418 OR 718C; ESAB ATOM ARC E7018-1; OR LINCOLN LH-70] HEAT RANGE 25-45 KJ/IN

GAS METAL ARC WELDING: AWS ER70S-3, 90%Ar / 10% CO2 COVER GAS [LINCOLN SUPERARC L-50; HOBART HB-25; ESAB SPOOLARC 82] HEAT RANGE 40-70 KJ/IN; MAX INTERPASS TEMP, 400F

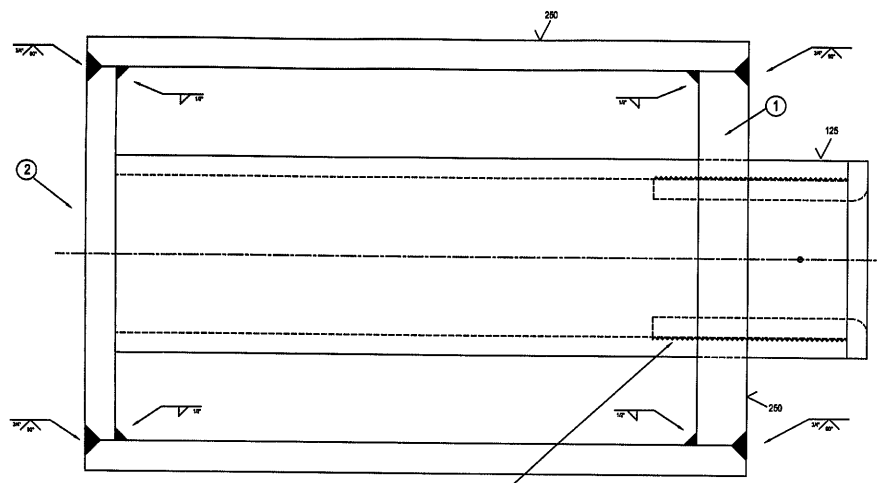
WELDMENTS SHALL HAVE MIN CVN TOUGHNESS OF 15ft-lb AT 40°F BY IDOT WELDED NOTCH TOUGHNESS TEST OF 60° V-GROOVE PARTIAL PENETRATION WELD JOINT PER SUBMITTED SAMPLES FOR ER70S-3 AND A709 GR. 50

PARTS AND MATERIALS		
PART #	DESCRIPTION	DIMENSIONS AND MATERIAL TYPE
1	BULKHEAD	2.50" X 19.00" X 18.38" ASTM A709 GR 50
2	BACK PLATE	1.50" X 19.00" X 18.38" ASTM A709 GR 50
3	BASE PLATE	1.50" X 22.00" X 33.25" ASTM A709 GR 50
4	TUBE	10" O.D. X 8" I.D. ASTM A519 SEAMLESS MECH. TUBE
5	LEFT PLATE	1.50" X 18.25" X 33.25" ASTM A709 GR 50
6	RIGHT PLATE	1.50" X 18.25" X 33.25" ASTM A709 GR 50
7	BUSHING	COPPER 865 ALLOY ASTM B271

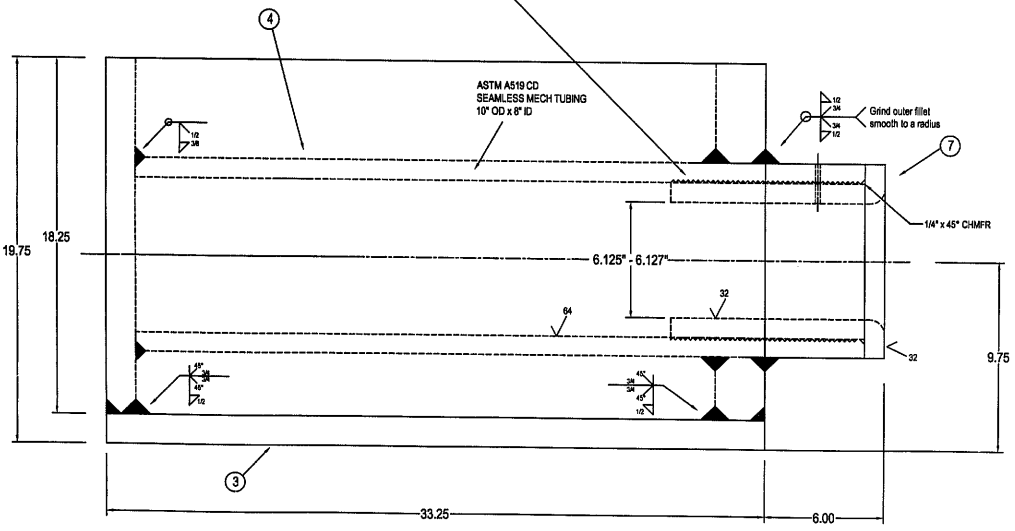
NOTE: ALL MOUNTING HOLES TO BE DRILLED AND TAPED AFTER FINAL ASSEMBLY TO INSURE ALL HOLES ARE LINED UP WITH EXISTING STRUCTURE.

NOTE: ALL NEW AND BARE STEEL WILL BE COATED WITH GREASE. ALL NEW STEEL THAT REQUIRES PROTECTION WILL BE PAINTED OR IN THE CASE OF INTERFACES BETWEEN TWO METALS, THESE AREAS WILL RECEIVE A COAT OF ZINC-CHROMATE PRIMER PRIOR TO ASSEMBLY.

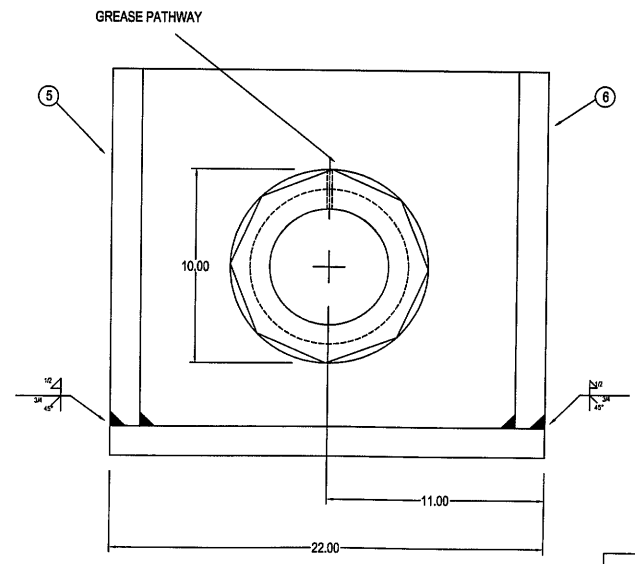
NOTE: ALL GREASE PATHWAYS TO BE DRILLED AND TAPED AFTER FINAL ASSEMBLY TO INSURE ALL HOLES ARE LINED UP. ALL PATHWAYS ARE 3/16" DIAMETER AND WILL HAVE STABILIZED STEEL. GREASE FITTING RATED FOR 10,000 PSI MAX. - US-10754



APPLY THREADLOCKER, LOCKTITE 262 OR APPROVED EQUAL



**CENTER LOCK RECEIVER BOX
(2 REQUIRED)**

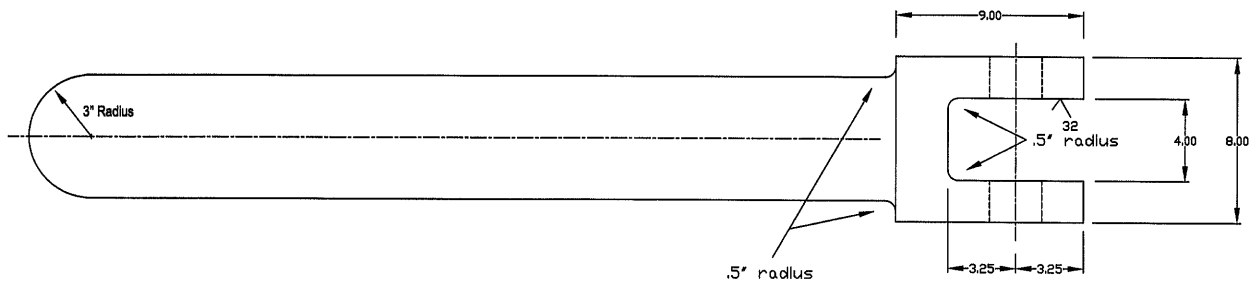


TOLERANCE	
.0	.180"
.00	.090"
.000	.045"

UNLESS OTHERWISE SPECIFIED

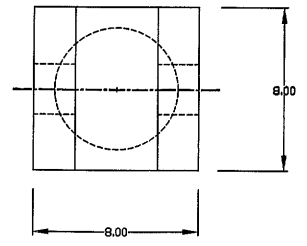
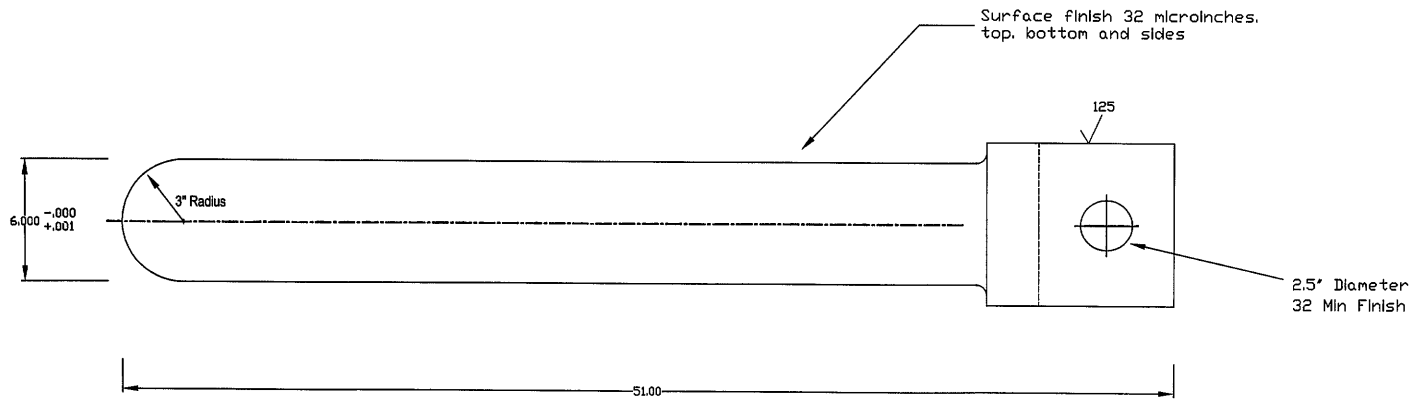
RUBY STREET BRIDGE REHABILITATION
 WILL COUNTY
 SECTION: M-B-DR-4-I-1
 C-91-366-96
 SN 0599-9901
 CONTRACT NO. 60193

APPROVED
 FOR HIGH CONSTRUCTION AND
 MAINTENANCE ONLY
 DEC 18 2002
Ralph L. Anderson
 Project Engineer and Traffic Engineer



MATERIAL
ASTM A668 CL. G

LOCK BAR



ANZEIC WELDING & FABRICATING, INC.
322 MOEN AVE. / JOLIET, IL 60438
PHONE : 815-725-5688 / FAX : 815-725-5463

DATE 9/24/02
DRAWN BY: N.A.
REVISOR:

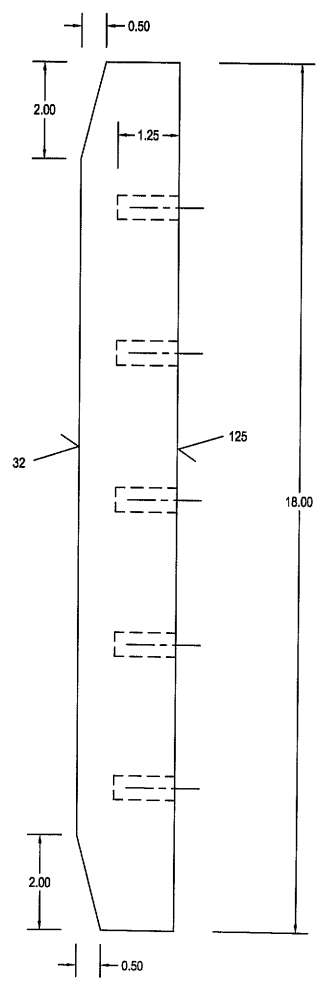
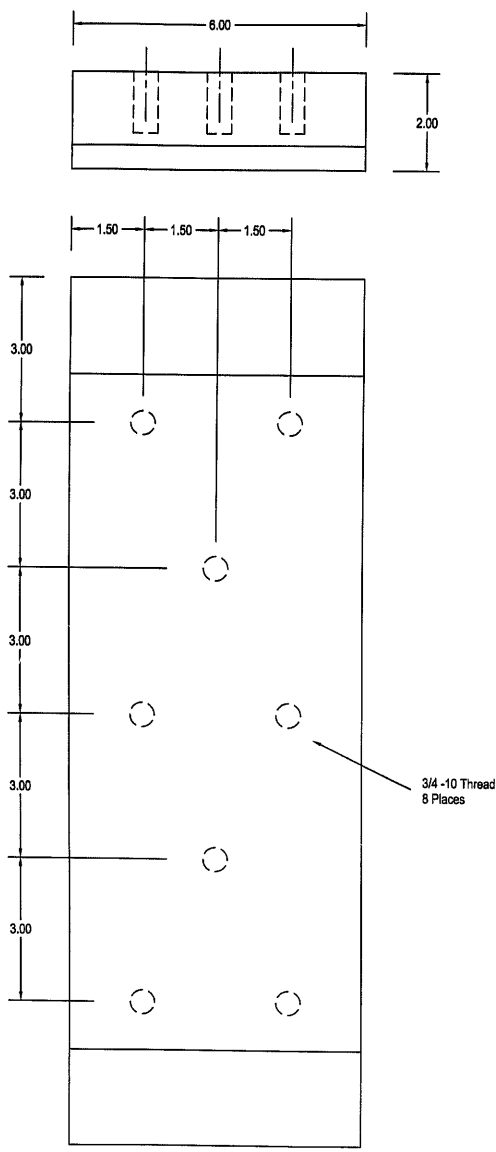
RUBY ST. BRIDGE REHABILITATION
SHEET 3 OF 13

APPROVED
For Sign. Disapproval Only
DEC 18 2002
Ralph C. Anderson
Engineer in Charge and Traffic Supervisor

RUBY STREET BRIDGE REHABILITATION
WILL COUNTY
SECTION: M-B-DR-4-I-1
C-91-366-96
SN 099-9901
CONTRACT NO. 60193

TOLERANCE	
.0	.180"
.00	.090"
.000	.045"

UNLESS OTHERWISE SPECIFIED



MATERIAL
 ASTM B169
 Aluminum Bronze
 Alloy 614, Soft Temper

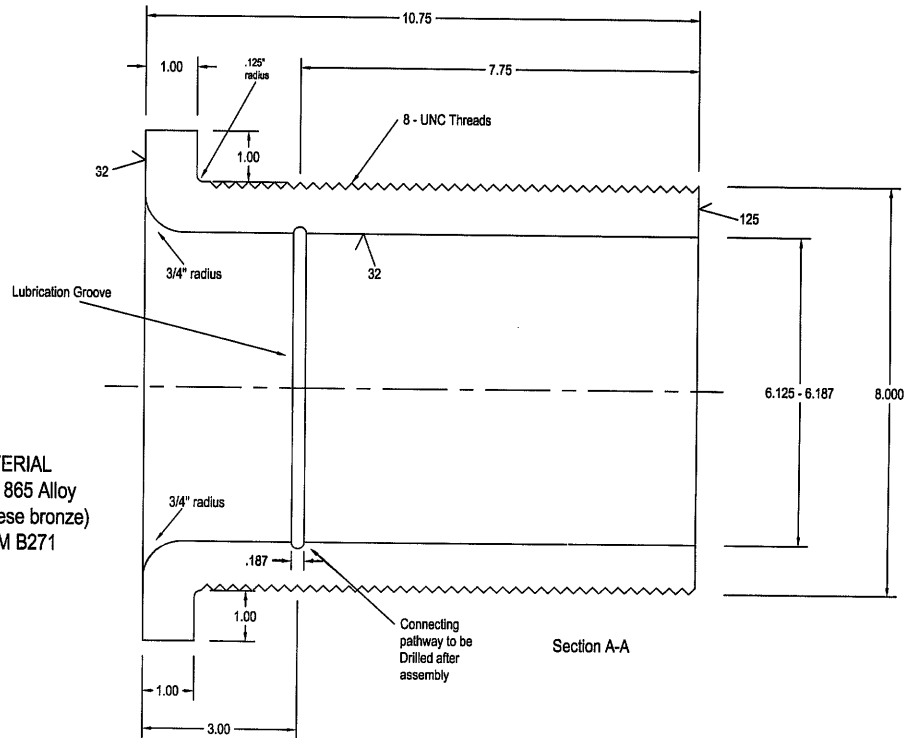
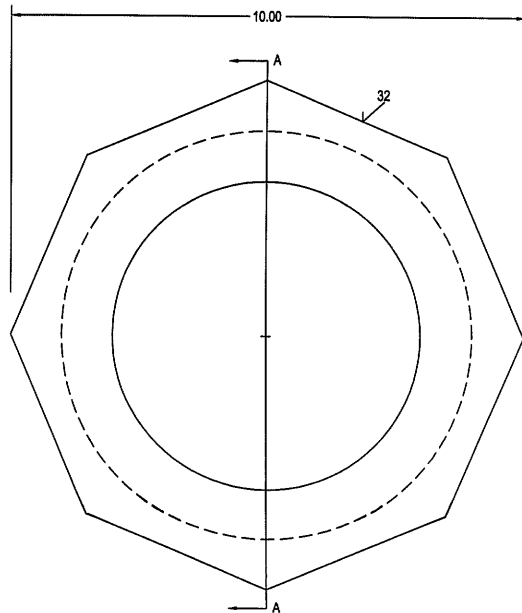
TOLERANCE	
.0	.180"
.00	.090"
.000	.045"

UNLESS OTHERWISE SPECIFIED

RUBY STREET BRIDGE REHABILITATION
 WILL COUNTY
 SECTION: M-B-DR-4-I-1
 C-91-366-96
 SN 099-9901
 CONTRACT NO. 60193

APPROVED
 For Main Dimensions and
 Materials Only
 DEC 16 2002
Ralph L. Anderson
 President of RWB and TRB Associates

ANZELC WELDING & FABRICATING, INC. 322 MOORE AVE. / JOLIET, IL 60438 PHONE : 815-725-5668 / FAX : 815-725-5463	
APPROVED BY: DATE 9/24/02	DRAWN BY: N.A. REVISED:
RUBY ST. BRIDGE REHABILITATION SHEET 4 OF 13	



MATERIAL
Copper 865 Alloy
(manganese bronze)
ASTM B271

Bearing for WEST LEAF
2 required

ANZELC WELDING & FABRICATING, INC.
322 MOORE AVE. / JOULET, IL 60438
PHONE : 815-725-9000 / FAX : 815-725-9400

DATE	9/24/02	APPROVED BY:	DRAWN BY: R.A.	SHEET 5 OF 13
			REVISED:	

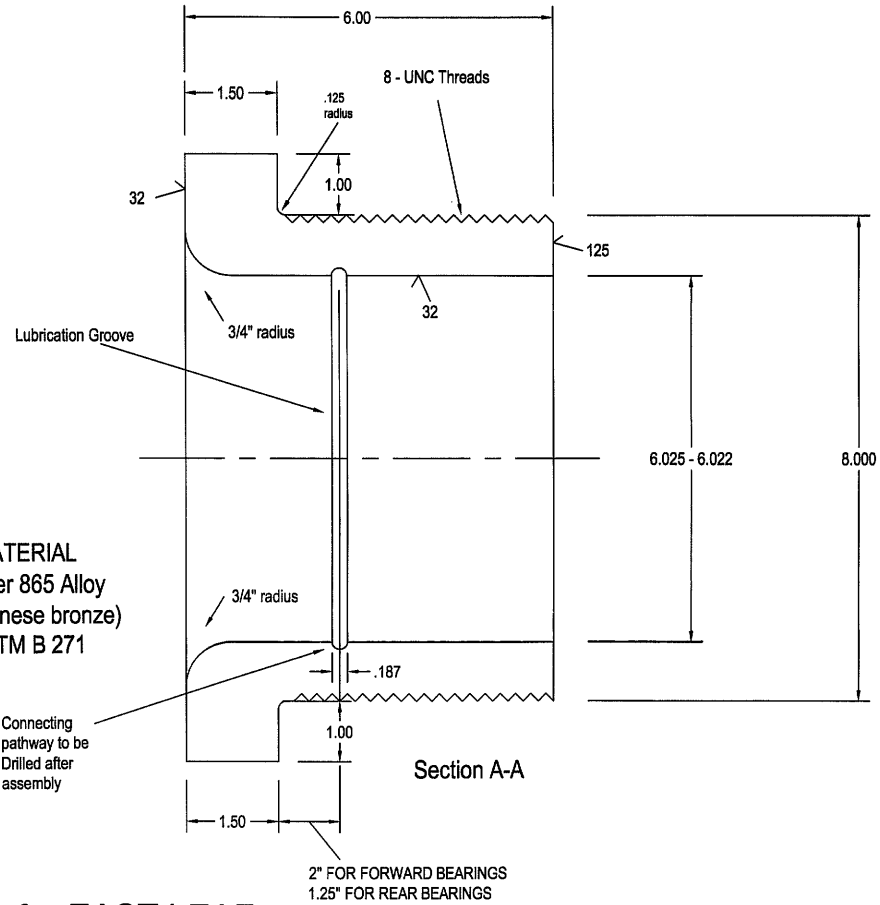
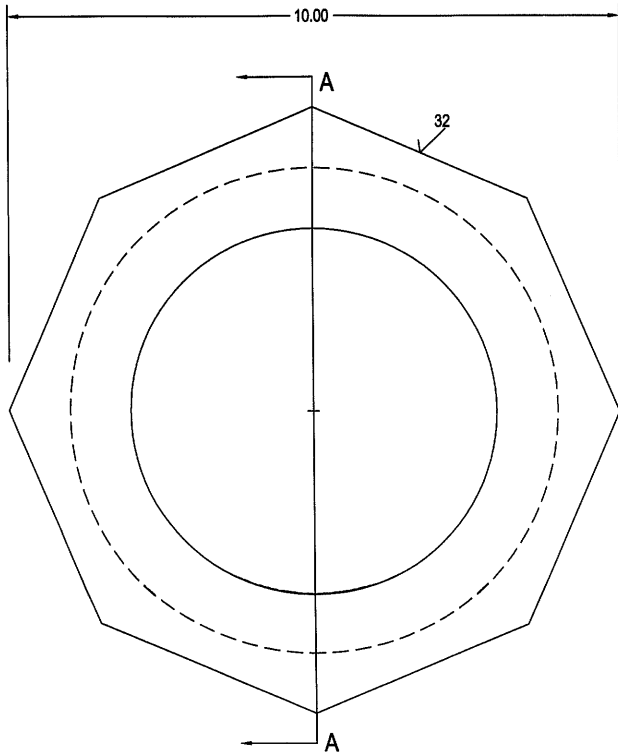
RUBY ST. BRIDGE REHABILITATION

APPROVED
DEC 16 2002
Ralph E. Anderson
Engineer of Bridges and Traffic Structures

RUBY STREET BRIDGE REHABILITATION
WILL COUNTY
SECTION: M-B-DR-4-1-1
C-91-366-96
SN 099-9901
CONTRACT NO. 60193

TOLERANCE	
.0	.180"
.00	.090"
.000	.045"

UNLESS OTHERWISE SPECIFIED



MATERIAL
Copper 865 Alloy
(manganese bronze)
ASTM B 271

Bearing for EAST LEAF
4 required

2" FOR FORWARD BEARINGS
1.25" FOR REAR BEARINGS

ANZELC WELDING & FABRICATING, INC.
322 MOEN AVE. / JOLIET, IL 60438
PHONE : 815-725-8686 / FAX : 815-725-6403

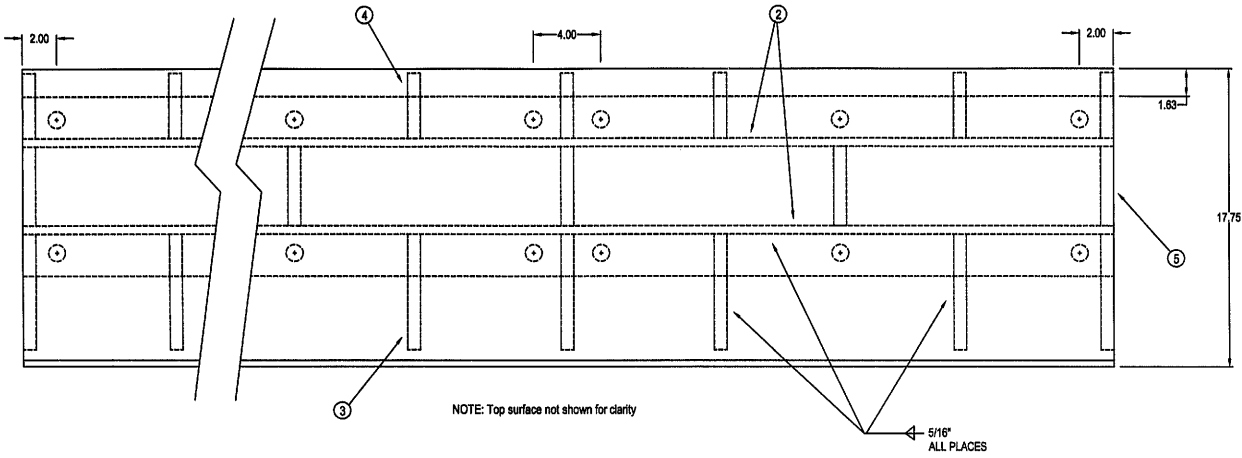
DATE **9/24/02** APPROVED BY: **R.A.**
REVISOR: **REVISOR:**

SHEET **6** OF **13**
RUBY ST. BRIDGE REHABILITATION

APPROVED
For Each Dimension and
Material Only
DEC 18 2002
Ralph E. Anderson
Professional Engineer and State Registered

RUBY STREET BRIDGE REHABILITATION
WILL COUNTY
SECTION: M-B-DR-4-I-1
C-91-366-96
SN 099-9901
CONTRACT NO. 60193

TOLERANCE	
.0	.180"
.00	.090"
.000	.045"
UNLESS OTHERWISE SPECIFIED	



PARTS AND MATERIALS		
PART #	QTY.	DESCRIPTION DIMENSIONS AND MATERIAL TYPE
1	1	TOP PLATE 1.50" X 17.75" X 193.50" ASTM A572 GR 50
2	2	ANGLE .50" X 3.00" X 3.00" ASTM A36
3	19	INNER WEB .75" X 2.50" X 8.88" ASTM A709 GR 50
4	19	INNER WEB .75" X 2.50" X 3.88" ASTM A709 GR 50
5	19	INNER WEB .75" X 3.00" X 4.75" ASTM A709 GR 50

NOTE: AFTER WELDING ALL NEW STEEL THAT REQUIRES PROTECTION WILL BE PAINTED OR IN THE CASE OF INTERFACES BETWEEN TWO METALS, THESE AREAS WILL RECEIVE A COAT OF ZINC-CHROMATE PRIMER PRIOR TO ASSEMBLY.

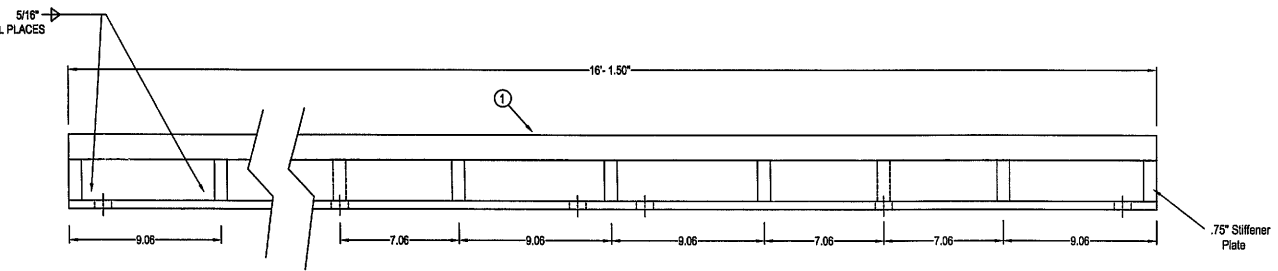
NOTE: ALL HOLES ARE TO BE TAPPED FOR 1" BOLT ALL 1" BOLTS TO BE A325. 250 MIN FINISH FOR ALL SURFACES

ANZELC WELDING & FABRICATING, INC.
 322 MOEN AVE. / JOLIET, IL 60438
 PHONE : 815-725-9000 / FAX : 815-725-9400

DATE 9/24/02 APPROVED BY: [Signature]
 DRAWN BY: M.A. REVISOR:

SHEET 7 OF 13
 RUBY ST. BRIDGE REHABILITATION

APPROVED
 For Main Dimensions and Materials Only
 DEC 18 2002
 Ralph C. Anderson
 President/Inspector and Test Technician



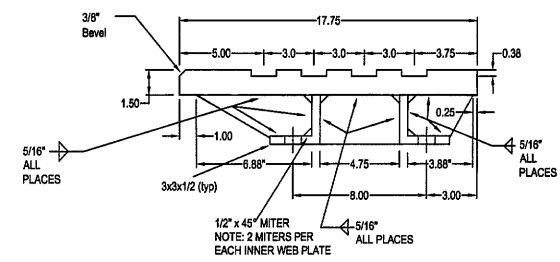
- WELDING PROCEDURE**
- ALL WELDS TO BE 5/16" FILLETS
 - BACK BRACING TO BE USED TO PREVENT DISTORTION
 - SECTIONAL STAGE WELDING TO BE DONE DURING WELDING TO MINIMIZE DISTORTION
 - WELDING MATERIAL TO BE - SEE SIDE NOTE
 - PREHEAT 1.5" A572 PLATE TO 150° BEFORE WELDING TO ALL INTERFACING PLATES

NOTE: SHIELDED ARC: AWS E7018 [HOBART 418 OR 718C; ESAB ATOM ARC E7018-1; OR LINCOLN LH-70] HEAT RANGE 25-45 KJ/IN

GAS METAL ARC WELDING: AWS ER70S-3, 90%Ar / 10% CO2 COVER GAS LINCOLN SUPERARC L-50; HOBART HB-25; ESAB SPOLARC 82 HEAT RANGE 40-70 KJ/IN; MAX INTERPASS TEMP, 400F

WELDMENTS SHALL HAVE MIN CVN TOUGHNESS OF 150ftlbs AT 40°F BY IDOT WELDED NOTCH TOUGHNESS TEST OF 60° V-GROOVE PARTIAL PENETRATION WELD JOINT PER SUBMITTED SAMPLES FOR ER70S-3 AND A709 GR. 50

**CENTER BREAK DETAIL
 (2 REQUIRED)
 1 EAST AND 1 WEST**



NOTE: FOLLOWING INSTALLATION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ADJUST ANY WEIGHT DIFFERENTIAL AS REQUIRED.

TOLERANCE	
.0	.180"
.00	.090"
.000	.045"
UNLESS OTHERWISE SPECIFIED	

RUBY STREET BRIDGE REHABILITATION
 WILL COUNTY
 SECTION: M-B-DR-4-1
 C-91-366-96
 SN 099-9901
 CONTRACT NO. 60193

ANZELC WELDING & FABRICATING, INC.
 322 RIDGE AVE. / JOLIET, IL 60438
 PHONE : 815-732-9888 / FAX : 815-732-6488

APPROVED BY: _____
 DATE 9/24/02
 DRAWN BY: N.A.
 REVISED:

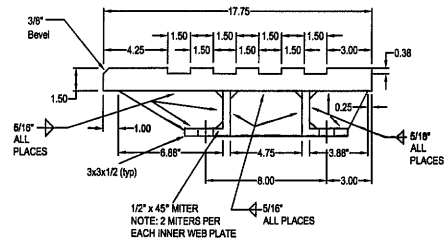
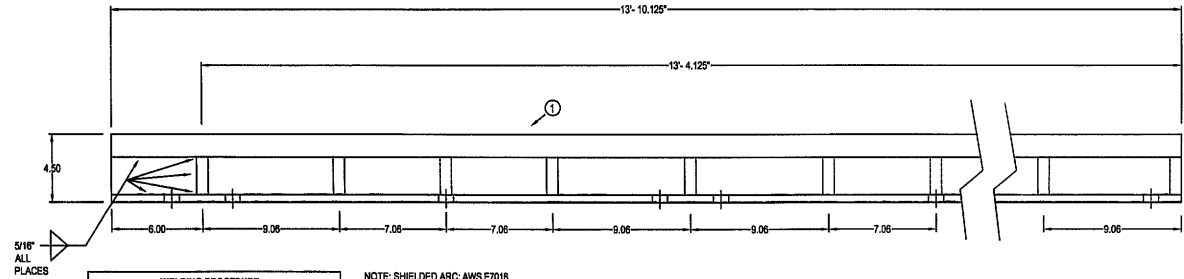
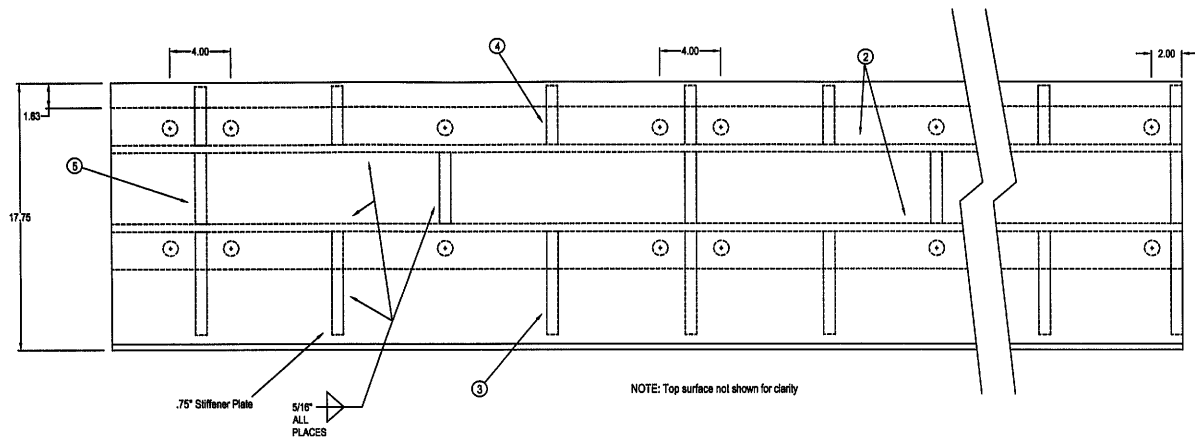
RUBY ST. BRIDGE REHABILITATION
 SHEET 8 OF 13

REV#	QTY	DESCRIPTION	DIMENSIONS AND MATERIAL TYPE
1	1	TOP PLATE	1.50" X 17.75" X 166.13" ASTM A572 GR 50
2	1	ANGLE	.50" X 3.00" X 3.00" ANGLE ASTM A36
3	21	INNER WEB	.75" X 2.50" X 6.88" ASTM A709 GR 50
4	21	INNER WEB	.75" X 2.50" X 3.88" ASTM A709 GR 50
5	11	INNER WEB	.75" X 3.00" X 4.75" ASTM A709 GR 50

NOTE: AFTER WELDING ALL NEW STEEL THAT REQUIRES PROTECTION WILL BE PAINTED OR IN THE CASE OF INTERFACES BETWEEN TWO METALS, THESE AREAS WILL RECEIVE A COAT OF ZINC-CHROMATE PRIMER PRIOR TO ASSEMBLY.

NOTE: ALL HOLES ARE TO BE TAPPED FOR 1" BOLT ALL 1" BOLTS TO BE A325.
 250 MIN FINISH FOR ALL SURFACES

APPROVED
 For Main Dimensions and Materials Only
 DEC 16 2002
Robert L. Van Buren
 Engineer, All Trades and Traffic Structures



NOTE: FOLLOWING INSTALLATION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ADJUST ANY WEIGHT DIFFERENTIAL AS REQUIRED.

WELDING PROCEDURE	
1	ALL WELDS TO BE 5/16" FILLETS
2	BACK BRACING TO BE USED TO PREVENT DISTORTION
3	SECTIONAL STAGE WELDING TO BE DONE DURING WELDING TO MINIMIZE DISTORTION.
4	WELDING MATERIAL TO BE SEE SIDE NOTE
5	PREHEAT 1.5" A572 PLATE TO 150° BEFORE WELDING TO ALL INTERFACING PLATES

NOTE: SHIELDED ARC: AWS E7018 (HOBART 418 OR 718C; ESAB ATOM ARC E7018-1; OR LINCOLN LH-70) HEAT RANGE 25-45 KJ/IN

GAS METAL ARC WELDING: AWS E70S-3, 90%Ar / 10% CO2 COVER GAS (LINCOLN SUPERARC L-50; HOBART HB-25; ESAB SPOOLARC 82) HEAT RANGE 40-70 KJ/IN; MAX INTERPASS TEMP: 400F

WELDMENTS SHALL HAVE MIN CVN TOUGHNESS OF 15Mpa AT 40°F BY IDOT WELDED NOTCH TOUGHNESS TEST OF 60° V-GROOVE PARTIAL PENETRATION WELD JOINT PER SUBMITTED SAMPLES FOR E70S-3 AND A709 GR. 50

**CENTER BREAK DETAIL
 (2 REQUIRED)
 1 EAST AND 1 WEST**

RUBY STREET BRIDGE REHABILITATION

**WILL COUNTY
 SECTION: M-B-DR-4-1**

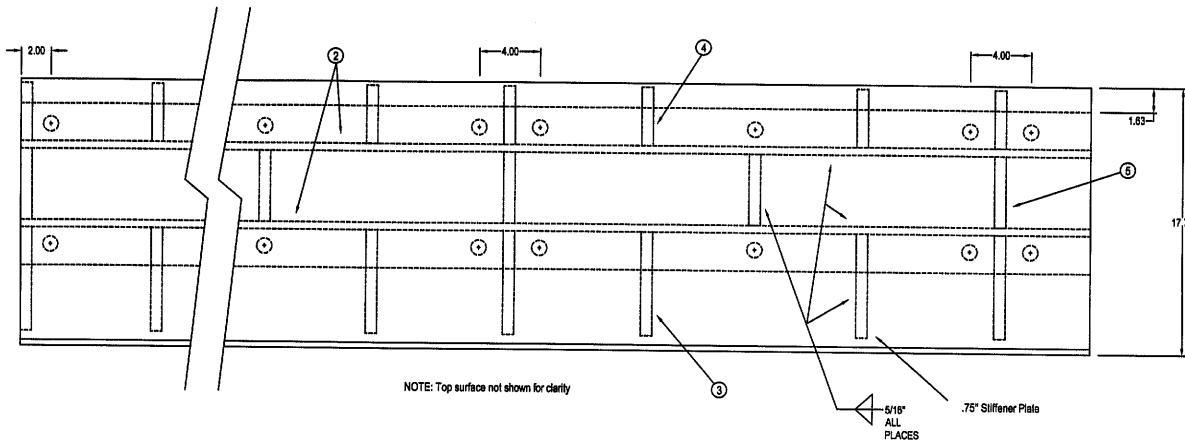
C-91-366-96

SN 099-9901

CONTRACT NO. 60193

TOLERANCE	
.0	.180"
.00	.090"
.000	.045"

UNLESS OTHERWISE SPECIFIED

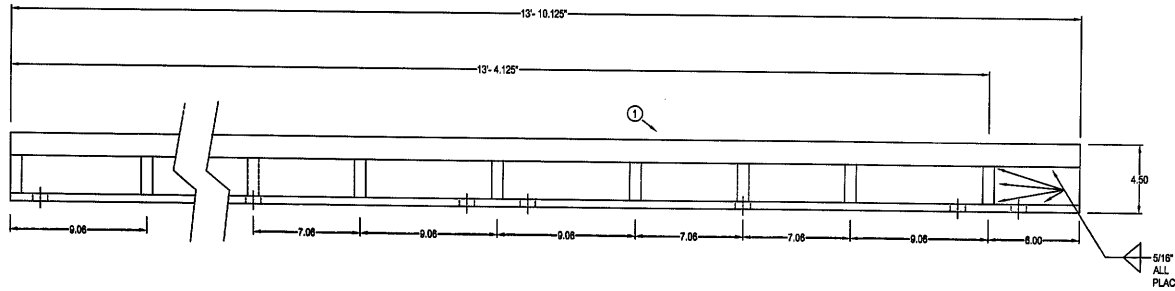


NOTE: Top surface not shown for clarity

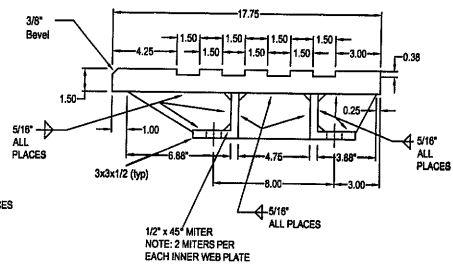
PARTS AND MATERIALS		
PART	QTY	DESCRIPTION DIMENSION AND MATERIAL TYPE
1	1	TOP PLATE 1.50" X 17.75" X 166.13" ASTM A572 GR 50
2	1	ANGLE .50" X 3.00" X 3.00" ANGLE ASTM A36
3	21	INNER WEB .75" X 2.50" X 6.88" ASTM A709 GR 50
4	21	INNER WEB .75" X 2.50" X 3.88" ASTM A709 GR 50
5	11	INNER WEB .75" X 3.00" X 4.75" ASTM A709 GR 50

NOTE: AFTER WELDING ALL NEW STEEL THAT REQUIRES PROTECTION WILL BE PAINTED OR IN THE CASE OF INTERFACES BETWEEN TWO METALS, THESE AREAS WILL RECEIVE A COAT OF ZINC-CHROMATE PRIMER PRIOR TO ASSEMBLY.

NOTE: ALL HOLES ARE TO BE TAPPED FOR 1" BOLT ALL 1" BOLTS TO BE A325 250 MIN FINISH FOR ALL SURFACES



**CENTER BREAK DETAIL
(2 REQUIRED)
1 EAST AND 1 WEST**



NOTE: FOLLOWING INSTALLATION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ADJUST ANY WEIGHT DIFFERENTIAL AS REQUIRED.

WELDING PROCEDURE	
1	ALL WELDS TO BE 5/16" FILLETS
2	BACK BRACING TO BE USED TO PREVENT DISTORTION
3	SECTIONAL STAGE WELDING TO BE DONE DURING WELDING TO MINIMIZE DISTORTION.
4	WELDING MATERIAL TO BE - SEE SIDE NOTE
5	PREHEAT 1.5" A572 PLATE TO 150° BEFORE WELDING TO ALL INTERFACING PLATES

NOTE: SHIELDED ARC; AWS E7018
HOBART 418 OR 718C; ESAB ATOM ARC E7018-1;
OR LINCOLN LH-70J HEAT RANGE 25-45 KJ/IN

GAS METAL ARC WELDING: AWS E70TS-3, 90%Ar/
10% CO2 COVER GAS [LINCOLN SUPERARC L-80;
HOBART HB-25; ESAB SPOOLARC S2] HEAT
RANGE 40-70 KJ/IN; MAX INTERPASS TEMP 400F

WELDMENTS SHALL HAVE MIN CVN TOUGHNESS
OF 15ftlb AT 40°F BY IDOT WELDED NOTCH
TOUGHNESS TEST OF 60° V-GROOVE PARTIAL
PENETRATION WELD JOINT PER SUBMITTED
SAMPLES FOR E70TS-3 AND A709 GR 50

ANZELC WELDING & FABRICATING, INC.
332 MOEN AVE., JOLIET, IL 60438
PHONE : 815-728-5868 / FAX : 815-728-5483

APPROVED BY: _____
DATE 9/24/02

DRAWN BY: J.M.A.
REVISED: _____

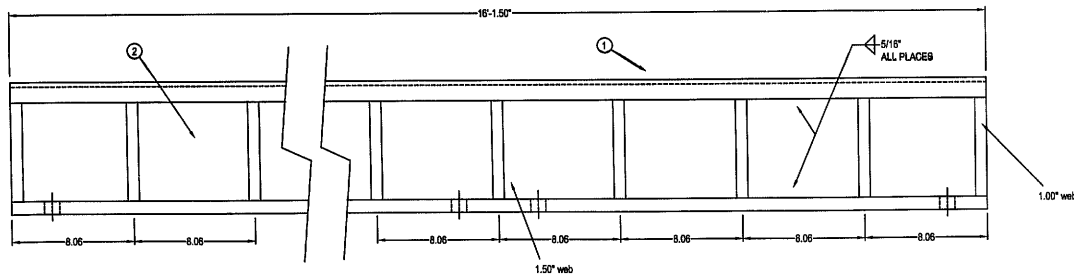
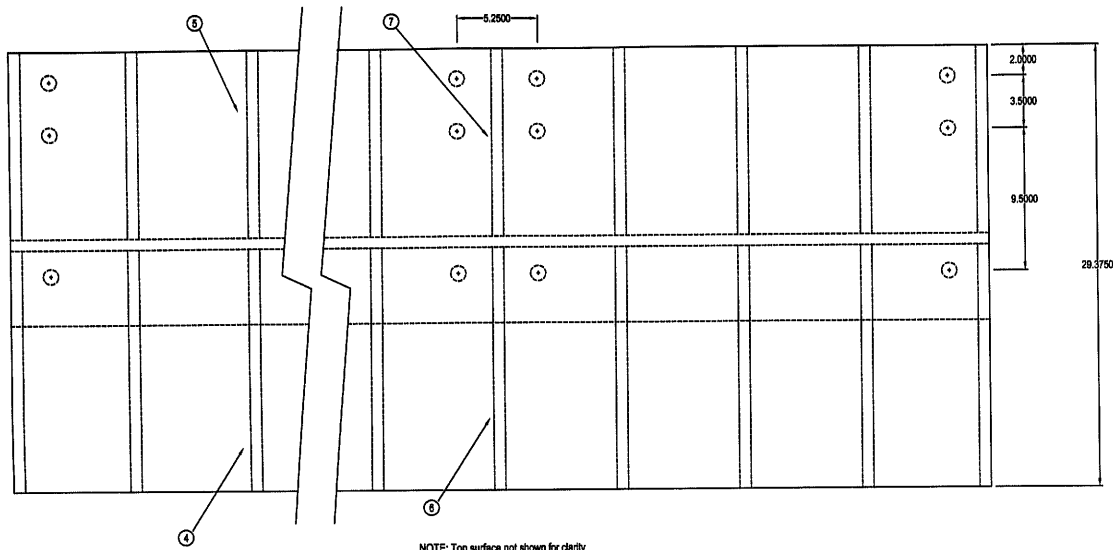
RUBY ST. BRIDGE REHABILITATION
SHEET 9 OF 13

APPROVED
FOR Main Dimensional and
Materials Only
DEC 16 2002
Ralph E. Anderson
Engineer of Bridge and Traffic Structures

RUBY STREET BRIDGE REHABILITATION
WILL COUNTY
SECTION: M-B-DR-4-I-1
C-91-366-96
SN 099-3901
CONTRACT NO. 60193

TOLERANCE	
.0	.180"
.00	.090"
.000	.045"

UNLESS OTHERWISE SPECIFIED



REAR BREAK DETAIL
(2 REQUIRED)
1 EAST AND 1 WEST

PARTS AND MATERIALS		
PART #	QTY.	DESCRIPTION
1	1	TOP PLATE 1.50" X 29.38" X 193.50" ASTM A572 GR 50
2	1	CENTER WEB 1.00" X 6.50" X 193.50" ASTM A709 GR 50
3	1	BASE PLATE .68" X 18.25" X 193.50" ASTM A709 GR 50
4	20	INNER WEB 1.00" X 6.50" X 14.12" ASTM A709 GR 50
5	20	INNER WEB 1.00" X 6.50" X 12.50" ASTM A709 GR 50
6	5	INNER WEB 1.50" X 6.50" X 14.44" ASTM A709 GR 50
7	5	INNER WEB 1.50" X 6.50" X 12.50" ASTM A709 GR 50

NOTE: AFTER WELDING ALL NEW STEEL THAT REQUIRES PROTECTION WILL BE PAINTED OR IN THE CASE OF INTERFACES BETWEEN TWO METALS, THESE AREAS WILL RECEIVE A COAT OF ZINC-CHROMATE PRIMER PRIOR TO ASSEMBLY.

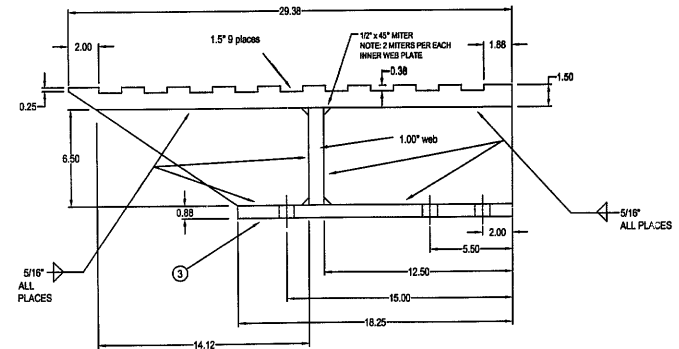
NOTE: ALL HOLES ARE TO BE TAPPED FOR 1" BOLT
ALL 1" BOLTS TO BE A325
250 MIN FINISH FOR ALL SURFACES

- WELDING PROCEDURE**
- 1 ALL WELDS TO BE 5/16" FILLETS
 - 2 BACK BRACING TO BE USED TO PREVENT DISTORTION
 - 3 SECTIONAL STAGE WELDING TO BE DONE DURING WELDING TO MINIMIZE DISTORTION
 - 4 WELDING MATERIAL TO BE - SEE SIDE NOTE
 - 5 PREHEAT 1.5" A572 PLATE TO 150° BEFORE WELDING TO ALL INTERFACING PLATES

NOTE: SHIELDED ARC: AWS E7018
[HOBART 418 OR 718C; ESAB ATOM ARC E7018-1;
OR LINCOLN LH-70] HEAT RANGE 25-45 KJ/IN

GAS METAL ARC WELDING: AWS E70S-3, 80%Ar /
10% CO2 COVER GAS [LINCOLN SUPREMACY L-80;
HOBART HB-25; ESAB SPOOLARC 82] HEAT
RANGE 40-70 KJ/IN; MAX INTERPASS TEMP 400F

WELDMENTS SHALL HAVE MIN QVW TOUGHNESS
OF 150ft-lb AT 40°F BY IDOT WELDED NOTCH
TOUGHNESS TEST OF 60° V-GROOVE PARTIAL
PENETRATION WELD JOINT PER SUBMITTED
SAMPLES FOR E70S-3 AND A709 GR 50



NOTE: FOLLOWING INSTALLATION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ADJUST ANY WEIGHT DIFFERENTIAL AS REQUIRED.

TOLERANCE	
.0	.180"
.00	.090"
.000	.045"
UNLESS OTHERWISE SPECIFIED	

ANZEIG WELDING & FABRICATING, INC.
322 MOEN AVE. / VOLLEY, IL 60428
PHONE: 815-728-5868 / FAX: 815-728-5483

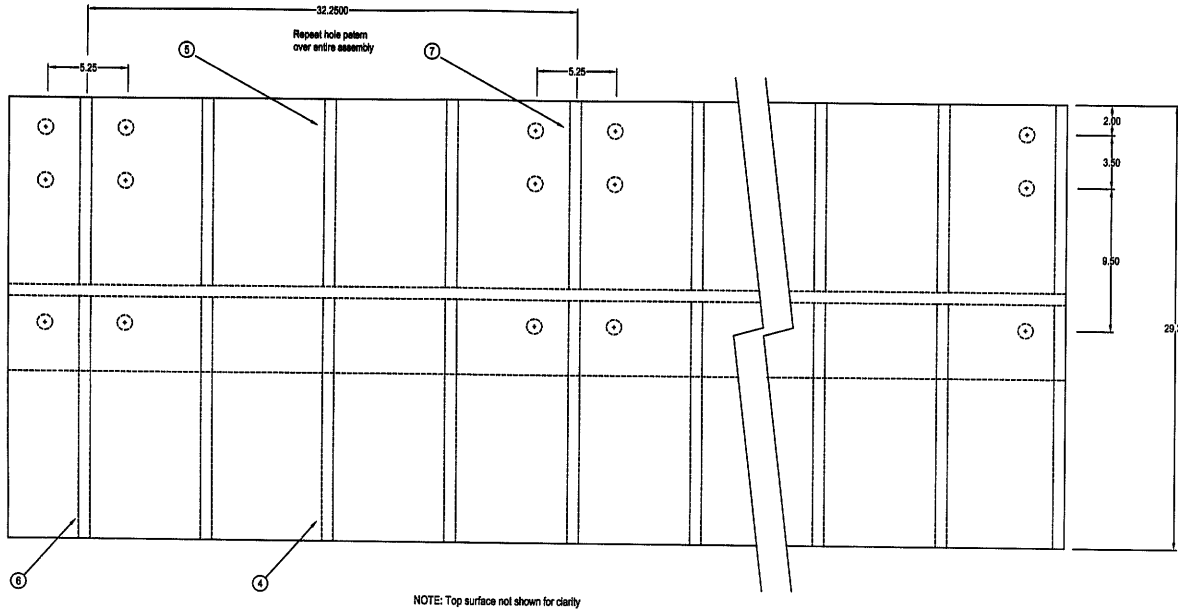
APPROVED BY: _____
DATE 9/24/02

DRAWN BY: J.A.
REVISED:

SHEET 10 OF 13
RUBY ST. BRIDGE REHABILITATION

APPROVED
For Main Dimensions and
Materials Only
DEC 16 2002
Ralph E. Anderson
Contractor of Bridges and Traffic Structures

RUBY STREET BRIDGE REHABILITATION
WILL COUNTY
SECTION: M-B-DR-4-I-1
C-91-366-96
SN 099-9901
CONTRACT NO. 60193



PARTS AND MATERIALS		
PART #	DESCRIPTION	DIMENSIONS AND MATERIAL TYPE
1	TOP PLATE	1.50" X 29.38" X 186.13" ASTM A672 GR 50
2	CENTER WEB	1.00" X 8.50" X 186.13" ASTM A709 GR 50
3	BASE PLATE	.88" X 18.25" X 186.13" ASTM A709 GR 50
4	INNER WEB	1.00" X 8.50" X 14.44" ASTM A709 GR 50
5	INNER WEB	1.00" X 8.50" X 12.50" ASTM A709 GR 50
6	INNER WEB	1.50" X 8.50" X 14.12" ASTM A709 GR 50
7	INNER WEB	1.50" X 8.50" X 12.50" ASTM A709 GR 50

NOTE: AFTER WELDING ALL NEW STEEL THAT REQUIRES PROTECTION WILL BE PAINTED OR IN THE CASE OF INTERFACES BETWEEN TWO METALS, THESE AREAS WILL RECEIVE A COAT OF ZINC-CHROMATE PRIMER PRIOR TO ASSEMBLY.

NOTE: ALL HOLES ARE TO BE TAPPED FOR 1" BOLT
ALL 1" BOLTS TO BE A325
250 MIN FINISH FOR ALL SURFACES

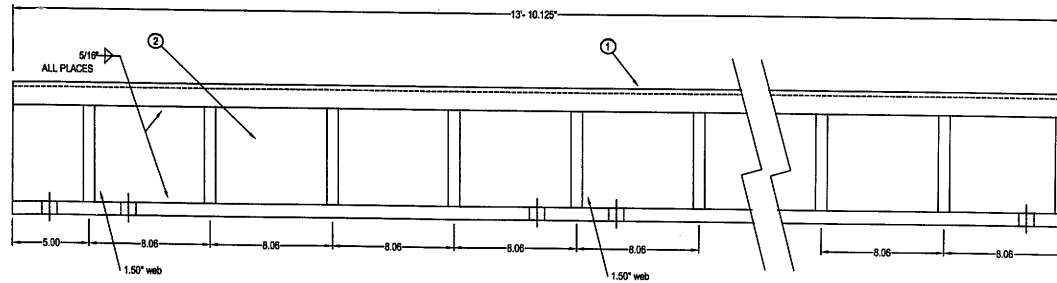
WELDING PROCEDURE

- 1 ALL WELDS TO BE 5/16" FILLETS
- 2 BACK BRACING TO BE USED TO PREVENT DISTORTION
- 3 SECTIONAL STAGE WELDING TO BE DONE DURING WELDING TO MINIMIZE DISTORTION
- 4 WELDING MATERIAL TO BE - SEE SIDE NOTE
- 5 PREHEAT 1.5" A572 PLATE TO 150° BEFORE WELDING TO ALL INTERFACING PLATES

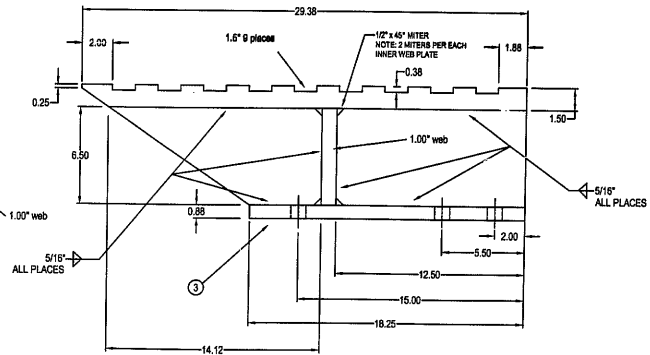
NOTE: SHIELDED ARC: AWS E7018
(HOBART 418 OR 718C; ESAB ATOM ARC E7018-1; OR LINCOLN LH-70) HEAT RANGE 25-45 KJ/IN

GAS METAL ARC WELDING: AWS E70S-3, 80%Ar / 10% CO2 COVER GAS (LINCOLN SUPERARC I-50; HOBART HB-25; ESAB SPOOLARC 82) HEAT RANGE 40-70 KJ/IN; MAX INTERPASS TEMP 400F

WELDMENTS SHALL HAVE MIN CWN TOUGHNESS OF 15ft/lbs AT40°F BY IDOT WELDED NOTCH TOUGHNESS TEST OF 60° V-GROOVE PARTIAL PENETRATION WELD JOINT PER SUBMITTED SAMPLES FOR E70S-3 AND A709 GR 50



REAR BREAK DETAIL
(2 REQUIRED)
1 EAST AND 1 WEST



NOTE: FOLLOWING INSTALLATION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ADJUST ANY WEIGHT DIFFERENTIAL AS REQUIRED.

TOLERANCE	
.0	.180"
.00	.090"
.000	.045"
UNLESS OTHERWISE SPECIFIED	

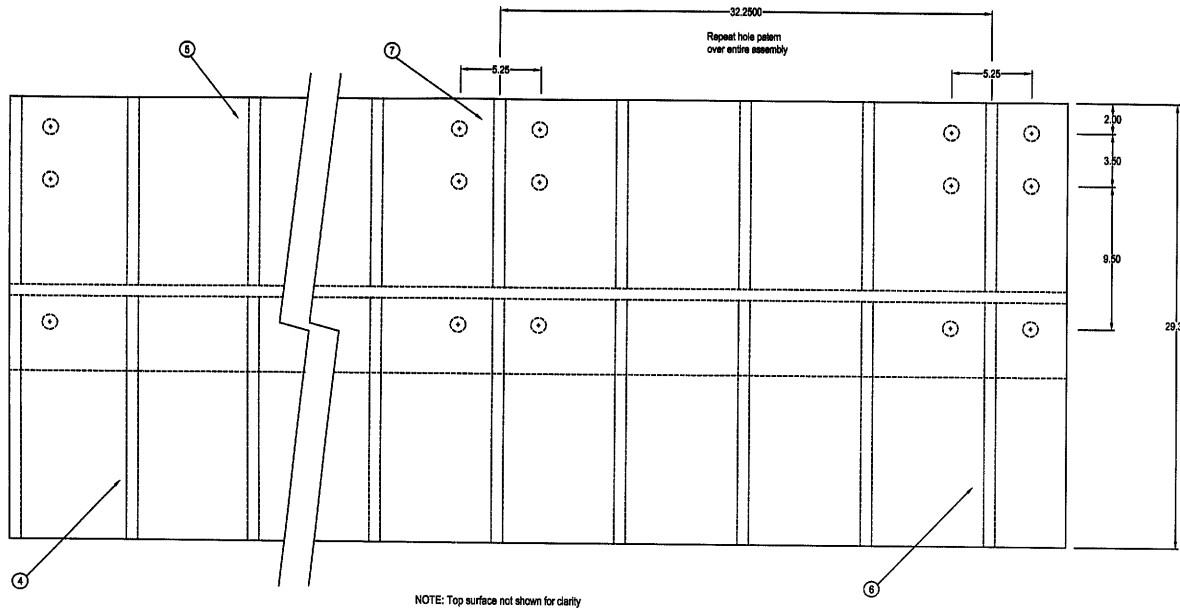
ANZELC WELDING & FABRICATING, INC.
322 MOER AVE./MOORE, IL 60439
PHONE : 815-725-9886 / FAX : 815-725-9488

DATE **9/24/02** APPROVED BY: **J.A.**
DRAWN BY: **J.A.** REVISIONS:

RUBY ST. BRIDGE REHABILITATION
SHEET 11 OF 13

APPROVED
For Main Dimensions and Materials Only
DEC 16 2002
Ralph L. Anderson
Engineer of Bridges and Traffic Structures

RUBY STREET BRIDGE REHABILITATION
WILL COUNTY
SECTION: **M-B-DR-4-I-1**
C-91-366-96
SN 099-9901
CONTRACT NO. 60193



PARTS AND MATERIALS		
PART #	DESCRIPTION	DIMENSIONS AND MATERIAL TYPE
1	TOP PLATE	1.50" X 29.38" X 106.13" ASTM A572 GR 50
2	CENTER WEB	1.00" X 6.50" X 106.13" ASTM A709 GR 50
3	BASE PLATE	.88" X 18.25" X 106.13" ASTM A709 GR 50
4	INNER WEB	1.00" X 6.50" X 14.12" ASTM A709 GR 50
5	INNER WEB	1.00" X 6.50" X 12.50" ASTM A709 GR 50
6	INNER WEB	1.50" X 6.50" X 14.44" ASTM A709 GR 50
7	INNER WEB	1.50" X 6.50" X 12.50" ASTM A709 GR 50

NOTE: AFTER WELDING ALL NEW STEEL THAT REQUIRES PROTECTION WILL BE PAINTED OR IN THE CASE OF INTERFACES BETWEEN TWO METALS, THESE AREAS WILL RECEIVE A COAT OF ZINC-CHROMATE PRIMER PRIOR TO ASSEMBLY.

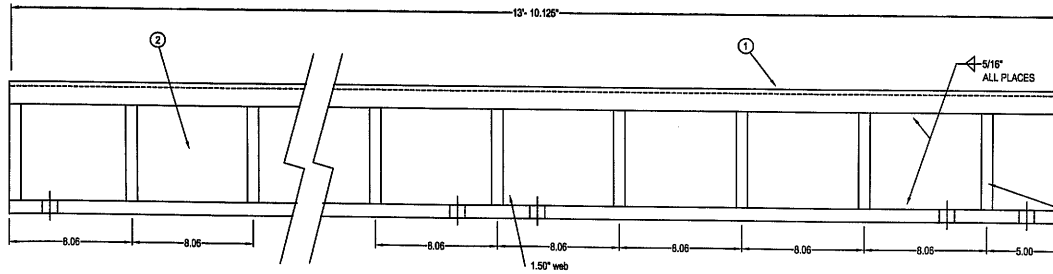
NOTE: ALL HOLES ARE TO BE TAPPED FOR 1" BOLT ALL 1" BOLTS TO BE A325 250 MIN FINISH FOR ALL SURFACES

WELDING PROCEDURE	
1	ALL WELDS TO BE 5/16" FILLETS
2	BACK BRACING TO BE USED TO PREVENT DISTORTION
3	SECTIONAL STAGE WELDING TO BE DONE DURING WELDING TO MINIMIZE DISTORTION.
4	WELDING MATERIAL TO BE - SEE SIDE NOTE
5	PREHEAT 1.5" A572 PLATE TO 150° BEFORE WELDING TO ALL INTERFACING PLATES

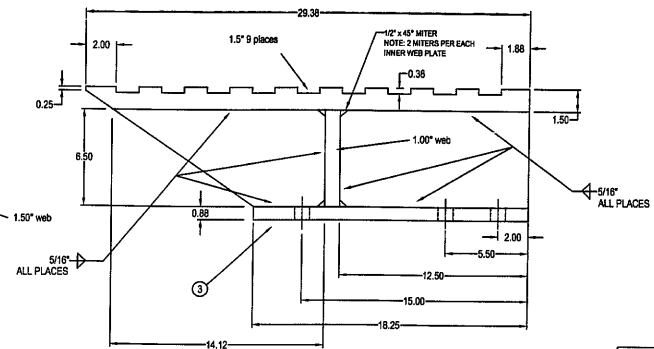
NOTE: SHIELDED ARC: AWS E7018 [HOBART 418 OR 718; ESAB ATOM ARC E7018-1; OR LINCOLN LH-70] HEAT RANGE 25-45 KJ/IN

GAS METAL ARC WELDING: AWS ER70S-3 90%Ni/10% CO2 COVER GAS [LINCOLN SP/PEARL L-50; HOBART HB-25; ESAB SPOOLARC 82] HEAT RANGE 40-70 KJ/IN; MAX INTERPASS TEMP 400F

WELDMENTS SHALL HAVE MIN C/VN TOUGHNESS OF 15Mpa AT 40°F BY IDOT WELDED NOTCH TOUGHNESS TEST OF 60° V-GROOVE PARTIAL PENETRATION WELD JOINT PER SUBMITTED SAMPLES FOR ER70S-3 AND A709 GR. 50



REAR BREAK DETAIL
(2 REQUIRED)
1 EAST AND 1 WEST



NOTE: FOLLOWING INSTALLATION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ADJUST ANY WEIGHT DIFFERENTIAL AS REQUIRED.

TOLERANCE	
.0	.180"
.00	.090"
.000	.045"

UNLESS OTHERWISE SPECIFIED

ANZELC WELDING & FABRICATING, INC.
322 BRUSH AVE. / JOULET, IL 60438
PHONE : 815-725-9668 / FAX : 815-725-9669

DATE **9/24/02** APPROVED BY: **[Signature]**
DRAWN BY: M.A. REVISED:

SHEET **12** OF **13**
RUBY ST. BRIDGE REHABILITATION

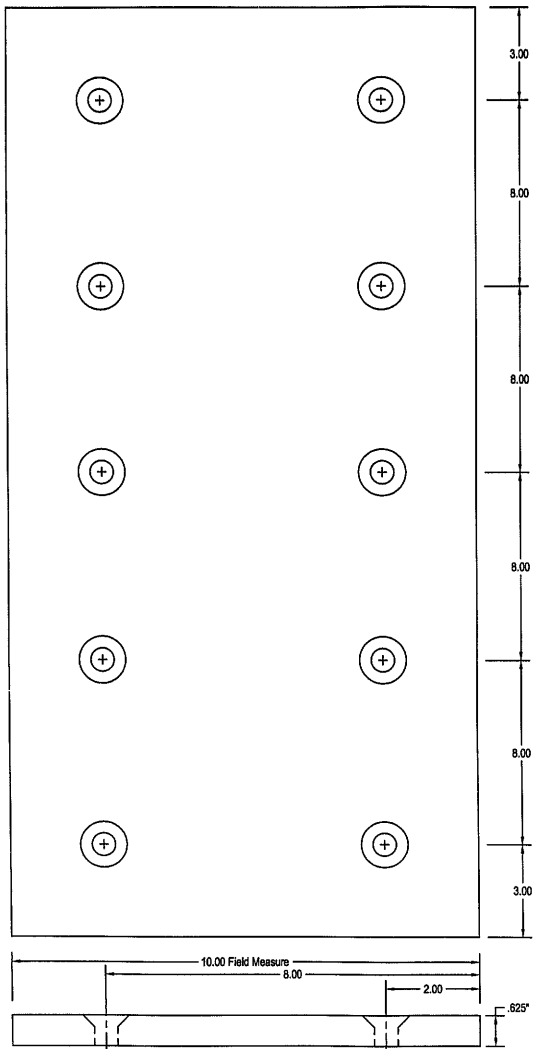
APPROVED
For Main Contractor use
Material Only
DEC 18 2002
Ralph E. Anderson
Engineer of Bridge and Traffic Structures

RUBY STREET BRIDGE REHABILITATION

WILL COUNTY
SECTION: M-B-DR-4-1

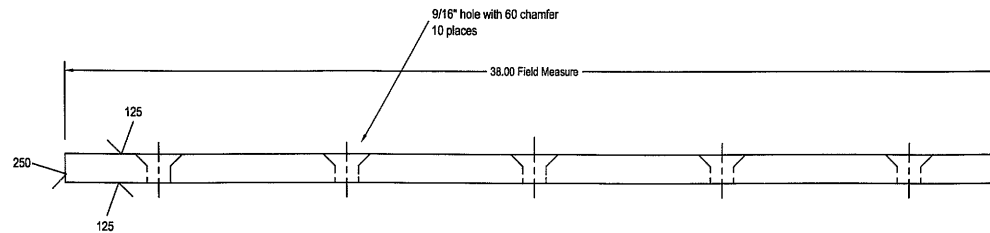
C-91-366-96
SN 099-9901

CONTRACT NO. 60193



LIVE LOAD BEARING PLATES

Material: ASTM A514 Type B
 (T-1 Alloy Steel)
 (4 REQUIRED)



ANZELC WELDING & FABRICATING, INC.
 332 MOEN AVE., JOLIET, IL 60438
 PHONE : 815-725-5668 / FAX : 815-725-5483

DATE	9/24/02	APPROVED BY:	
		DRAWN BY: N.A.	
		REVISID:	

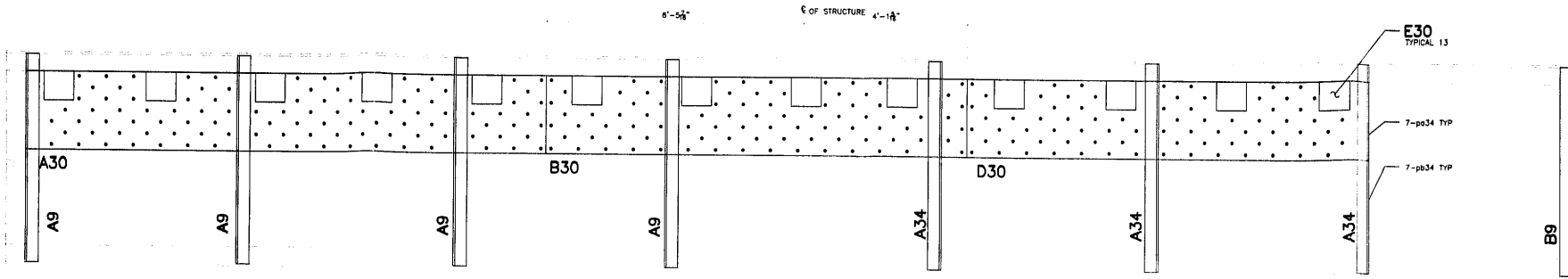
RUBY ST. BRIDGE REHABILITATION
 SHEET
 13 OF 13

APPROVED
 For Math Dimensions and
 Materials Only
 DEC 16 2002
Ralph C. Anderson
 Engineer for Bridges and Traffic Structures

RUBY STREET BRIDGE REHABILITATION
 WILL COUNTY
 SECTION: M-B-DR-4-I-1
 C-91-366-96
 SN 099-9901
 CONTRACT NO. 60193

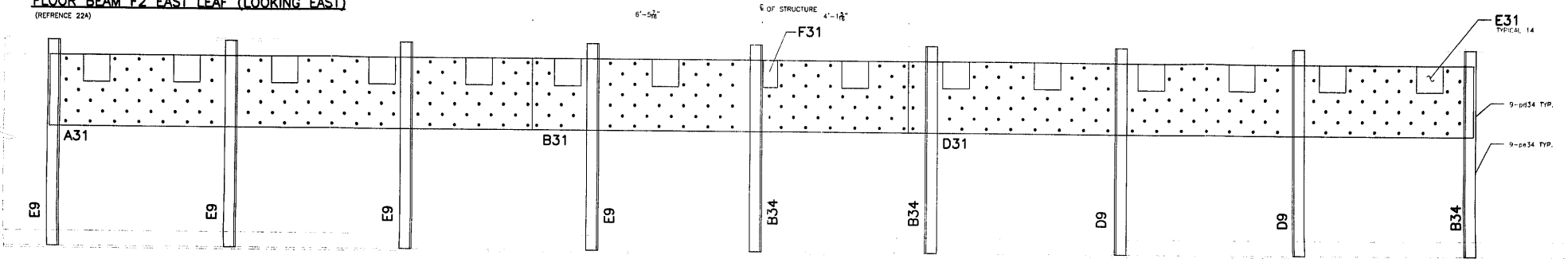
TOLERANCE	
.0	.180"
.00	.090"
.000	.045"

UNLESS OTHERWISE SPECIFIED



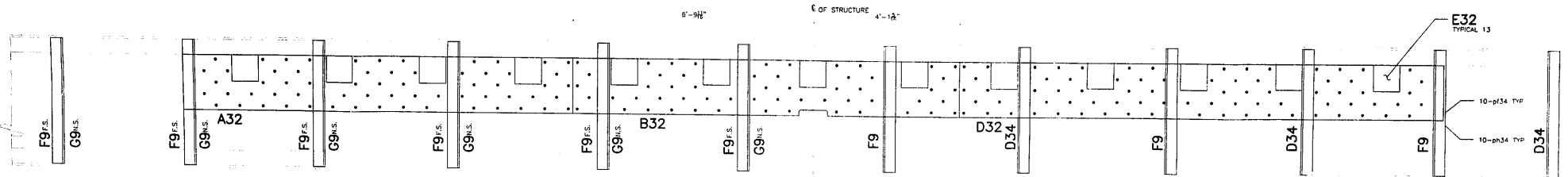
FLOOR BEAM F2 EAST LEAF (LOOKING EAST)

(REFERENCE 22A)



FLOOR BEAM F3 EAST LEAF (LOOKING EAST)

(REFERENCE 22B)



FLOOR BEAM F4 EAST LEAF (LOOKING EAST)

(REFERENCE 22C)

APPROVED
For Main Dimensions and
Materials Only
FEB 06 2003
Ralph E. Umbreit
Engineer of Bridge & Traffic Structures

FIELD VERIFY ALL

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 CALV, 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BLASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINC H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"
- USE EXISTING HOLES TO FIELD DRILL HOLES IN PLATES WHERE HOLES ARE NOT SHOWN HERE.

APPROVAL/REVIEW AUTHORITY:
PLEASE REVIEW THIS DRAWING CAREFULLY. IF REVISIONS ARE REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTIVE SPECIAL ORDERING AND ATTENDING TO THE REQUIREMENTS OF THE WORK.
MAJOR NOTES TO THE CONTRACTOR ON THIS DRAWING: WHEN IT IS NECESSARY TO CORRECT OR AMEND THIS DRAWING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTIVE SPECIAL ORDERING AND ATTENDING TO THE REQUIREMENTS OF THE WORK.
SUBSEQUENT CHANGES TO INFORMATION SHOWN ON THESE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL CHANGES SHALL BE MADE IN ACCORDANCE WITH THE STANDARD SPECS. ANY CHANGES SHALL BE LABELED TO THE DRAWING BY THE CONTRACTOR.

PAINT: INORGANIC ZINC RICH PRIMER WELD SIZE: 1/4"
HOLES: 15/16" WELDS = E70XX MATL=ASIM A 36 } U.N.
WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES

ISSUED BY: REVISIONS DATE DRAWN BY: GAH
GAH ISSUED FOR APPROVAL 11/28/02 DATE: 11/22/02
GAH REVISED PER COMMENTS 1/23/03 CHECKED BY:
DATE:
APPROVED:

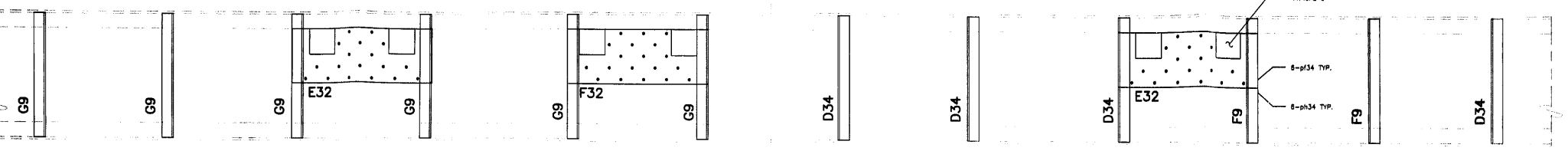


D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

SCALE: 3/4"=1'

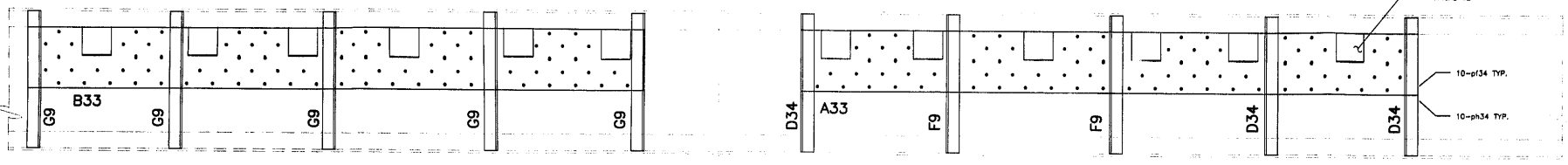
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SHEET TITLE	BRIDGE REHABILITATION	
STRUCTURE	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO:
LOCATION	F.A.P. ROUTE 112 (LINDSAY ST RUBY STREET) SECTION M-8-D8-4-1-1	E5
ENGINEER	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF STRUCTURE # 089-9901	

¢ OF STRUCTURE



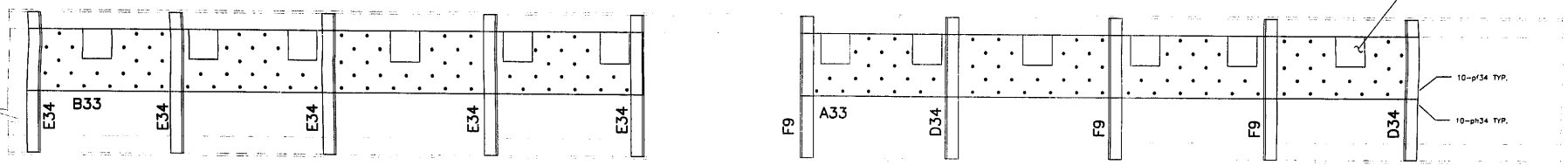
FLOOR BEAM F5 EAST LEAF (LOOKING EAST)
 (REFERENCE 220)

¢ OF STRUCTURE



FLOOR BEAM F6 EAST LEAF (LOOKING EAST)
 (REFERENCE 221)

¢ OF STRUCTURE



FLOOR BEAM F7 EAST LEAF (LOOKING EAST)
 (REFERENCE 222)

APPROVED
 For Main Construction and
 Material 1509
 FEB 06 2013
(Signature)
 Engineer of Works & Traffic Structures

FIELD VERIFY ALL

GENERAL NOTES

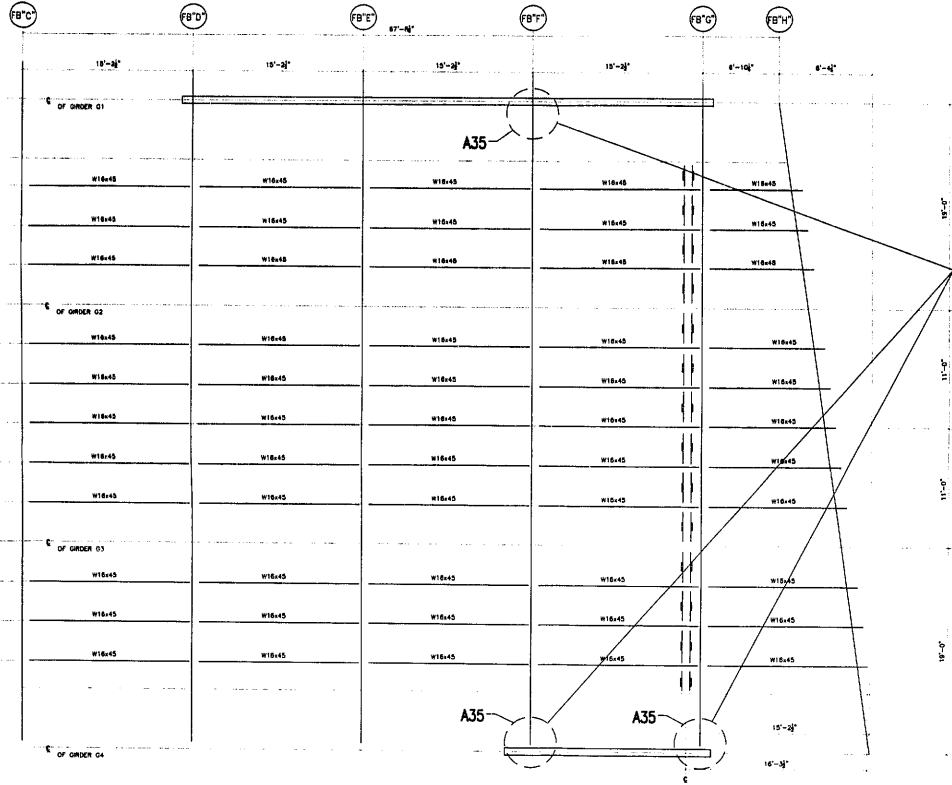
1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV, 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
6. CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BLASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINC H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"
8. USE EXISTING HOLES TO FIELD DRILL; HOLES IN PLATES WHERE HOLES ARE NOT SHOWN HERE.

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. COMMENTS OR REVISIONS TO BE MADE BY THE USER OF THE DRAWING SHALL BE MADE IN THE APPROPRIATE SPACES ON THIS DRAWING. REVISIONS TO BE MADE BY THE USER OF THE DRAWING SHALL BE MADE IN THE APPROPRIATE SPACES ON THIS DRAWING. REVISIONS TO BE MADE BY THE USER OF THE DRAWING SHALL BE MADE IN THE APPROPRIATE SPACES ON THIS DRAWING.		PAINT: INORGANIC ZINC RICH PRIMER WELD SIZE: 1/4" HOLES: 15/16" Ø WELDS = E70XX MATL=ASTM A 36 U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
NO. BY REVISIONS DATE DRAWN BY: CAH CAH ISSUED FOR APPROVAL 11/22/02 DATE: 11/22/02 CAH REVISED PER COMMENTS 12/27/02 CHECKED BY: DATE: APPROVED:		

D'D CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1488 SO. BROADWAY
 COAL CITY, ILLINOIS 60416

SHEET TITLE		ERECTION PLAN		JOB NO.:	
STRUCTURE		BRIDGE REHABILITATION			
LOCATION		CONTRACT # 60193 PROJECT # C-91-366-96		SHEET NO.:	
ENGINEER		F.A.P. ROUTE 112 (ILINDS 53 RUBY STREET) SECTION M-B-DR-4-1-1		E6	
		WILL COUNTY, ILLINOIS			
		PARSONS BRINCKERHOFF			
		STRUCTURE # 099-9901			

SCALE: 3/4"=1'



AT THREE LOCATIONS, REMOVE AND REPLACE IN KIND THE TWO VERTICAL STIFFENER ANGLES ON EACH SIDE OF THE WEB (FILL PLATES TO REMAIN). ALSO, REMOVE AND REPLACE IN KIND THREE TRIANGULAR GUSSET PLATES WITH ATTACHED ANGLES AT THE SAME THREE LOCATIONS.
NOTE: ALL HOLES TO MATCH EXISTING.

GENERAL NOTES

1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
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 - A. ALL STEEL SURFACES TO BE BLASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
7. NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

EAST APPROACH SPAN

FIELD VERIFY ALL

APPROVED
For Main Dimensions
Date: 2/24/03
Ralph C. Williams
Engineer of Structures and Traffic

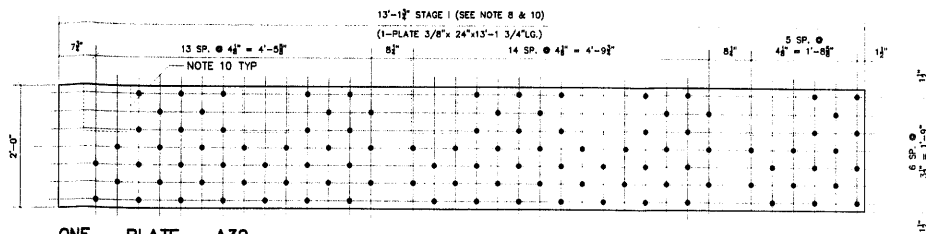
SCALE: 3/16"=1'

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY FOR ACCURACY AND CONFORMANCE WITH THE CONTRACT AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL MATERIALS AND LABOR REQUIRED FOR THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING STRUCTURES AND UTILITIES.		PAINT: INORGANIC ZINC RICH PRIMER WELD SIZE: 1/4" HOLES: 15/16" WELDS = E70XX (MAT)=ASTM A 36 U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	
NO. BY GAH	REVISIONS ISSUED FOR APPROVAL	DATE DRAWN BY: DATE: 2/24/03	DATE: APPROVED:

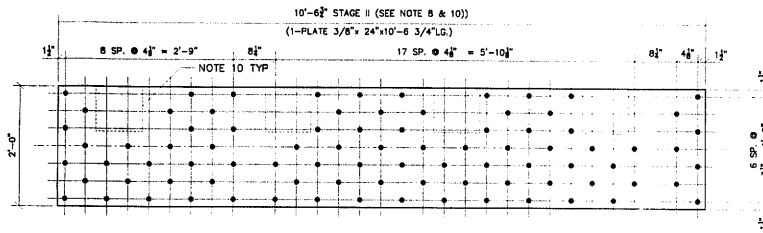


D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BRADWAY
COAL CITY, ILLINOIS 60416

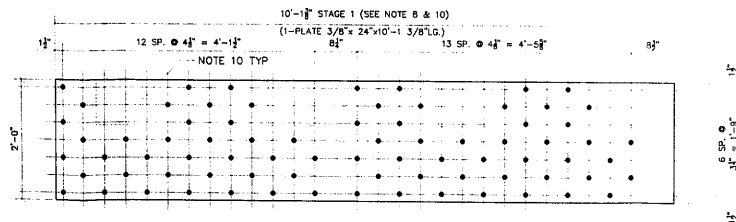
SHEET TITLE	ERECTOR PLAN EAST APPROACH REPAIRS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	SHEET NO:
LOCATION	CONTRACT # 60193 PROJECT # C-91-356-96 FAP, ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION W-8-DR-4-1-1	E7
ENGINEER	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF STRUCTURE # 099-9901	



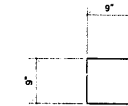
ONE - PLATE - A30
FLOOR BEAM F2 EAST LEAF
(LOOKING EAST)



ONE - PLATE - B30
FLOOR BEAM F2 EAST LEAF
(LOOKING EAST)



ONE - PLATE - D30
FLOOR BEAM F2 EAST LEAF
(LOOKING EAST)



13 - PLATE - E30
FIELD DRILL (NOTE 10)

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	ONE	PLATE 3/8" x 24"	13'-1 3/4"	A30	
3.					
4.					
5.					
6.	ONE	PLATE 3/8" x 24"	10'-6 3/4"	B30	
7.					
8.					
9.					
10.	ONE	PLATE 3/8" x 24"	10'-1 3/8"	D30	
11.					
12.					
13.	13	PLATE 7/16" x 9"	0'-9"	E30	
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

GENERAL NOTES

- * - REPAIR STEEL FOR EAST APPROACH SPAN.
- 1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- 2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- 3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- 4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- 5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- 6. CLEAN & PAINT:
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 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINC H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- 7. NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"
- 8. USE NEW PLATES AS TEMPLATE TO FIELD DRILL FLOOR BEAM WEBS.
- 9. ALL BOLTS SHALL BE PLACED WITH WASHER AND NUT ON EAST SIDE OF WEB.
- 10. USE EXISTING HOLES TO FIELD DRILL HOLES IN NEW PLATES.

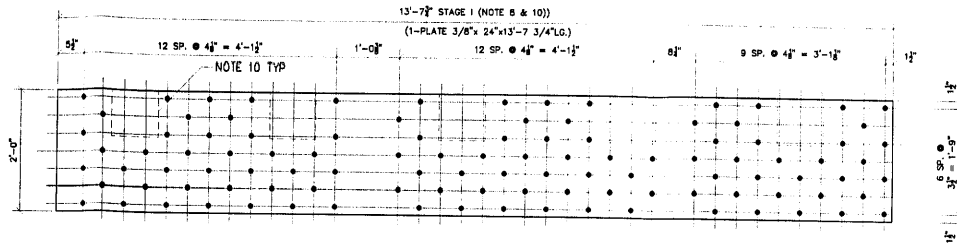
APPROVED
For Matt Dimeropoulos and
Volocent City
FEB 06 2003
Ralph E. Anderson
Engineer of Design & Traffic Structures

FIELD VERIFY ALL
REFERENCE DWG. 22A
ERECTION DWG. E5 SCALE: 1"=1'

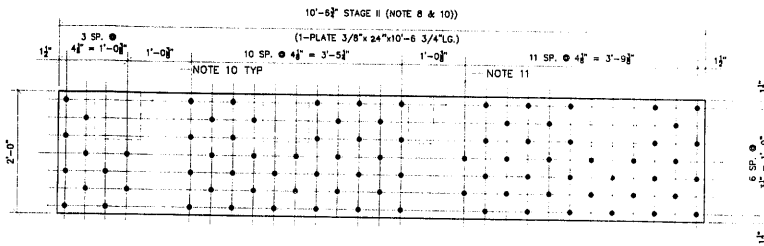
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECS. FOR THE DESIGN AND CONSTRUCTION OF THIS PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL MATERIALS AND LABOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL MATERIALS AND LABOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL MATERIALS AND LABOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL MATERIALS AND LABOR.	PART: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES 15/16" WELDS = E70XX MATL=ASTM A 36 } U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
NO. BY REVISIONS DATE DRAWN BY: GAH	GAH ISSUED FOR APPROVAL 11/25/02 DATE: 11/18/02
GAH REVISED PER COMMENTS 12/22/02 CHECKED BY:	DATE: APPROVED:

D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

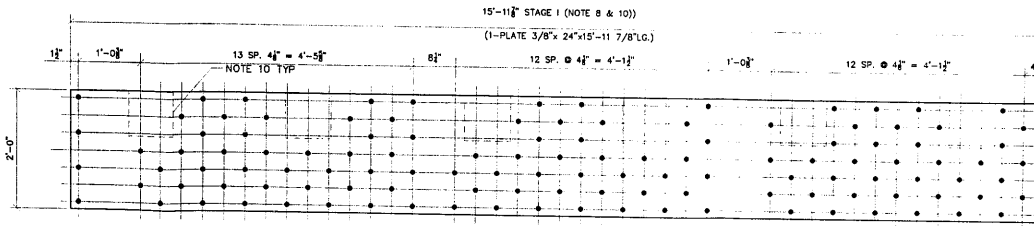
SHEET TITLE	REPAIR DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO:
LOCATION	FAP ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION 11-9-DR-4-1-1	30
ENGINEER	PARSONS BRINCKERHOFF	
ARCHITECT	STRUCTURE # 099-9901	



ONE - PLATE - A31
FLOOR BEAM F3 EAST LEAF
(LOOKING EAST)



ONE - PLATE - B31
FLOOR BEAM F3 EAST LEAF
(LOOKING EAST)



ONE - PLATE - D31
FLOOR BEAM F3 EAST LEAF
(LOOKING EAST)



14 - PLATE - E31
FIELD DRILL (NOTE 10)



ONE - PLATE - F31
FIELD DRILL (NOTE 10)

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	ONE	PLATE 3/8"x24"	13'-7 3/4"	A31	
3.					
4.					
5.					
6.	ONE	PLATE 3/8"x24"	10'-6 3/4"	B31	
7.					
8.					
9.					
10.	ONE	PLATE 3/8"x24"	15'-11 7/8"	D31	
11.					
12.					
13.					
14.	14	PLATE 3/8"x9"	0'-9"	E31	
15.					
16.					
17.					
18.	ONE	PLATE 3/8"x4 7/8"	0'-9"	F31	
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

GENERAL NOTES

- * - REPAIR STEEL FOR EAST APPROACH SPAN.
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- 6. CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BLASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINC H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- 7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"
- 8. USE NEW PLATES AS TEMPLATE TO FIELD DRILL FLOOR BEAM WEBS.
- 9. ALL BOLTS SHALL BE PLACED WITH WASHER AND NUT ON EAST SIDE OF WEB.
- 10. USE EXISTING HOLES TO FIELD DRILL HOLES IN NEW PLATES.
- 11. USE EXISTING HOLES TO FIELD DRILL HOLES IN NEW 4 7/8"x9"x3/8" PLATES

APPROVED
For North Metropolitan Street
Materials City
FEB 05 2003
Ralph E. Anderson
Engineer at DTP & Traffic Structures

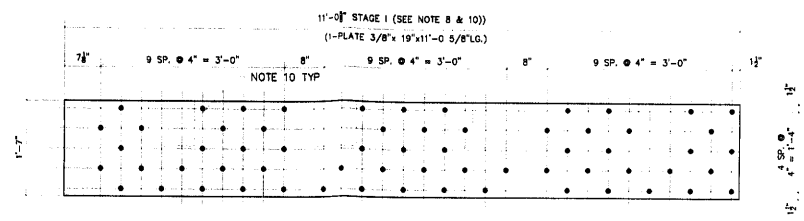
FIELD VERIFY ALL

ERECTION DWG. E5
REFERENCE DWG. 22B SCALE: 1"=1'

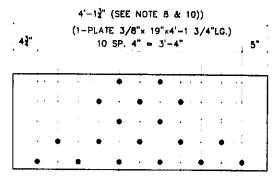
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY IN THE OFFICE OF THE ENGINEER. CONTROL THE FIELD REPRESENTATIVE FOR THE OFFICE OF THE ENGINEER FROM THE DURING THE FABRICATION OF THE BRIDGE.		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4"	
NO. BY REVISIONS DATE DRAWN BY: CAH		HOLES: 15/16" WELDS = E70XX (MATT=ASTM A 36) U.N.	
WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES		DATE: 11/18/02	
ISSUED FOR APPROVAL 11/25/02		CHECKED BY:	
REVISED PER COMMENTS 12/23/02		DATE:	
APPROVED:		APPROVED:	



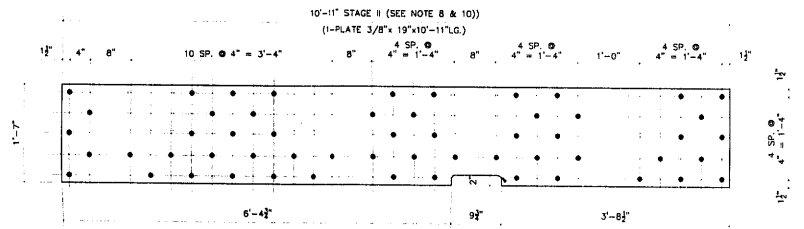
SHEET TITLE	REPAIR DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	CONTRACT # 60153 PROJECT # C-91-366-96 T.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-8-BR-1-1	SHEET NO:
ENGINEER	WILL COUNTY, ILLINOIS	31
ARCHITECT	PARSONS BRINCKERHOFF STRUCTURE # 099-9901	



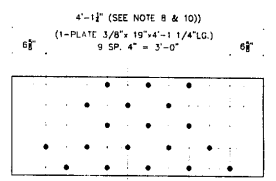
ONE - PLATE - A32
FLOOR BEAM F4 EAST LEAF
(LOOKING EAST)



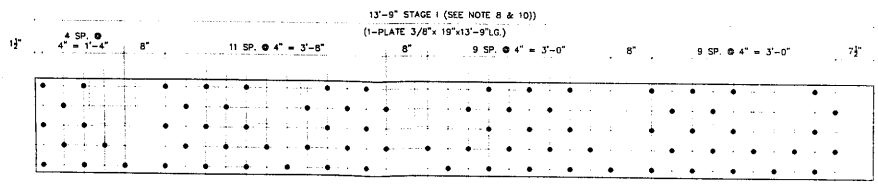
2 - PLATE - E32
FLOOR BEAM F5 EAST LEAF
(LOOKING EAST)



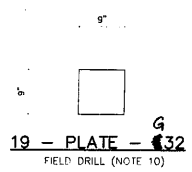
ONE - PLATE - B32
FLOOR BEAM F4 EAST LEAF
(LOOKING EAST)



ONE - PLATE - F32
FLOOR BEAM F5 EAST LEAF
(LOOKING EAST)



ONE - PLATE - D32
FLOOR BEAM F4 EAST LEAF
(LOOKING EAST)



19 - PLATE - G
FIELD DRILL (NOTE 10)

NO.	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	ONE	PLATE 3/8"x19"	11'-0 5/8"	A32	
3.					
4.					
5.					
6.	ONE	PLATE 3/8"x19"	10'-11"	B32	
7.					
8.					
9.	ONE	PLATE 3/8"x19"	13'-9"	D32	
10.					
11.					
12.					
13.					
14.	2	PLATE 3/8"x19"	4'-1 3/4"	E32	
15.					
16.					
17.					
18.	ONE	PLATE 3/8"x19"	4'-1 3/4"	F32	
19.					
20.					
21.					
22.	19	PLATE 3/8"x9"	0'-9"	G32	
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

GENERAL NOTES

- * - REPAIR STEEL FOR EAST APPROACH SPAN.
- 1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- 2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- 3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- 4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- 5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE ROUND SMOOTH.
- 6. CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BLASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINC H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- 7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"
- 8. USE NEW PLATES AS TEMPLATE TO FIELD DRILL FLOOR BEAM WEBS
- 9. ALL BOLTS SHALL BE PLACED WITH WASHER AND NUT ON EAST SIDE OF WEB
- 10. USE EXISTING HOLES TO FIELD DRILL HOLES IN NEW PLATES.

APPROVED
For Math Dimensional and
Fabrication Only
FEB 05 2003
Ralph E. Anderson
Engineer of Bridge & Traffic Structures

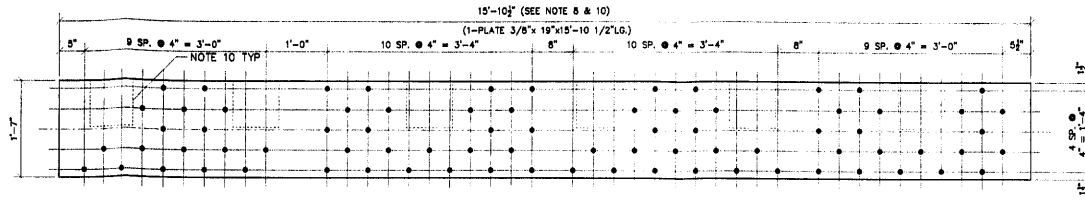
FIELD VERIFY ALL

REFERENCE DWG. 22C 220
ERECTION DWG. E5 & E6 SCALE: 1"=1'

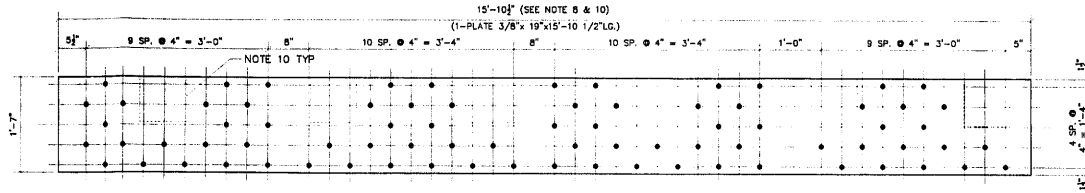
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. IT IS THE RESPONSIBILITY OF THE REVIEWER TO VERIFY THE DIMENSIONS AND THE MATERIAL SPECIFICATIONS AND TO SIGN THE DRAWING. THE REVIEWER IS NOT RESPONSIBLE FOR THE DESIGN OR THE FABRICATION. THIS IS THE RESPONSIBILITY OF THE DESIGNER. ANY CHANGES TO THE DRAWING MUST BE APPROVED BY THE DESIGNER AND THE REVIEWER. THE REVIEWER IS NOT RESPONSIBLE FOR THE DESIGN OR THE FABRICATION. THIS IS THE RESPONSIBILITY OF THE DESIGNER.	PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" HELDS = E70XX IMATL=ASTM A 36 WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	WELDS: 1/4" 5 U.N.
NO. BY REVISIONS DATE DRAWN BY: CAH CAH ISSUED FOR APPROVAL 11/18/02 CAH REVISION PER COMMENTS 12/23/02 CHECKED BY: DATE:	APPROVED:	

DPD CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

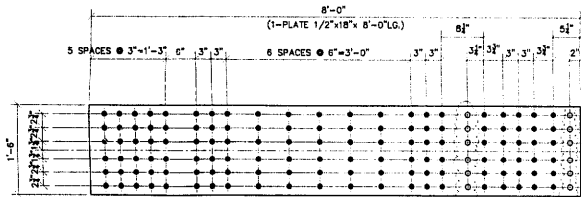
SHEET TITLE		REPAIR DETAILS	JOB NO.:
STRUCTURE		BRIDGE REHABILITATION	
LOCATION		CONTRACT # 60193 PROJECT # C-91-366-96	
ENGINEER		F.A.P. ROUTE 112 (ILLINOIS SJ RIBBY STREET) SECTION M-B-DR-4-1-1	SHEET NO.:
ARCHITECT		MILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF STRUCTURE # 099-9901	32



2 - PLATE - A33
FLOOR BEAM F8 & F7 EAST LEAF
(LOOKING EAST)



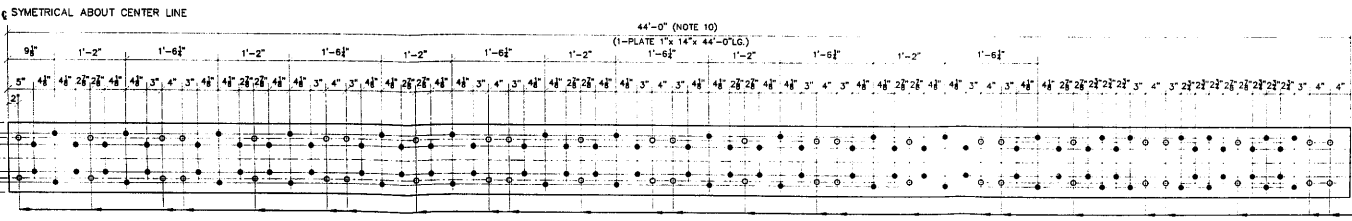
2 - PLATE - B33
FLOOR BEAM F8 & F7 EAST LEAF
(LOOKING EAST)



ONE - PLATE - D33
HORIZONTAL GIRDER SPLICE
ABOVE FLOOR BEAM F1

FIELD DRILL
NOTE 10

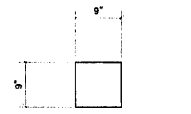
APPROVED
For Main Dimensions and
Materials Only
FEB 05 2003
Ralph C. Anderson
Engineer of Iron & Traffic Structures



ONE - PLATE - E33
FLOOR BEAM F8 EAST LEAF
TOP COVER PLATE

FIELD DRILL
NOTE 10

NO	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1					
2	2	PLATE 3/8"x19"	15'-10 1/2"	A33	
3					
4					
5					
6	2	PLATE 3/8"x19"	15'-10 1/2"	B33	
7					
8					
9					
10	ONE	PLATE 7/8"x18"	8'-0"	D33	
11					
12					
13					
14	ONE	PLATE 1"x14"	44'-0"	E33	
15					
16					
17					
18	24	PLATE 3/8"x9"	0'-9"	F33	
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					



24 - PLATE - F33
FIELD DRILL (NOTE 10)

GENERAL NOTES

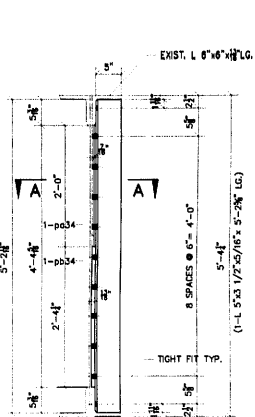
- * - REPAIR STEEL FOR EAST APPROACH SPAN.
- 1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- 2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- 3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV, 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- 4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- 5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- 6. CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BLASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINC H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- 7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"
- 8. USE NEW PLATES AS TEMPLATE TO FIELD DRILL FLOOR BEAM WEBS.
- 9. ALL BOLTS SHALL BE PLACED WITH WASHER AND NUT ON EAST SIDE OF WEB.
- 10. USE EXISTING HOLES TO FIELD DRILL HOLES IN NEW PLATES.

FIELD VERIFY ALL
ERECTOR DWG. 22E 22F SCALE: 1"=1'

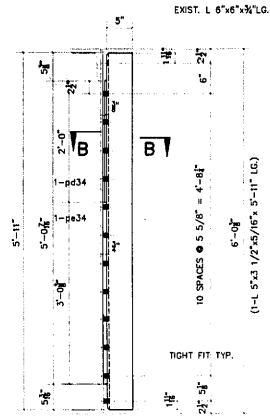
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. FOR THE DESIGNER'S USE: THIS DRAWING IS THE PROPERTY OF THE DESIGNER AND IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE DESIGNER. THE DESIGNER'S LIABILITY IS LIMITED TO THE DESIGN ONLY.	PAINT: INORGANIC ZINC RICH PRIMER (WELDS: 1/4") HOLES: 15/16" (WELDS = E70XX) (MATERIAL = ASTM A 36) WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
NOI BY: _____ DATE: _____ GCH ISSUED FOR APPROVAL 11/25/02 DATE: 11/18/02 GCH REVISED PER COMMENTS 12/23/02 CHECKED BY: _____ DATE: _____ APPROVED: _____	U.N.

LD 'D' CONSTRUCTION INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

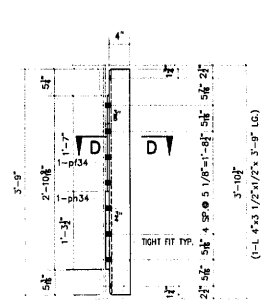
SHEET TITLE	REPAIR DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	SHEET NO:
LOCATION	CONTRACT # 60193 PROJECT # C-91-356-96 F.A.P. ROUTE 112 (ILINOS ST BY S.W.) SECTION N-6-08-4-1-1 WILL COUNTY, ILLINOIS	33
ENGINEER	PARSONS BRINCKERHOFF	
ARCHITECT	STRUCTURE # 099-9901	



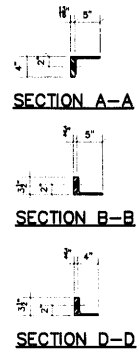
3 - REPAIR ANGLE - A34
REFERENCE SHEET # 22A TYPICAL SECTION



3 - REPAIR ANGLE - B34
REFERENCE SHEET # 22B TYPICAL SECTION

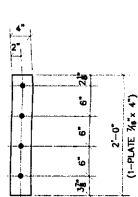


12 - REPAIR ANGLE AS SHOWN - D34
5 - REPAIR ANGLE OPPOSITE - E34
REFERENCE SHEET # 22C, 22D, 22E TYPICAL SECTION

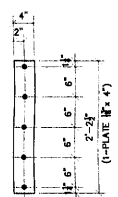


#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	3	L 5"x3 1/2"x5/16"	5'-2 5/8"	A34	
3.	7	PLATE 7/16"x4"	2'-0"	pb34	
4.	7	PLATE 13/16"x4"	2'-2 1/2"	pb34	
5.					
6.					
7.					
8.	3	L 5"x3 1/2"x5/16"	5'-11"	B34	
9.	9	PLATE 3/8"x3 1/2"	2'-0"	pb34	
10.	9	PLATE 3/4"x3 1/2"	2'-10 7/8"	pb34	
11.					
12.					
13.					
14.	12	L 4"x3 1/2"x1/2"	3'-9"	D34	
15.	36	PLATE 3/8"x3 1/2"	1'-9"	pb34	
16.	36	PLATE 3/4"x3 1/2"	1'-2 7/8"	pb34	
17.					
18.					
19.	5	L 4"x3 1/2"x1/2"	3'-9"	E34	
20.					
21.					
22.					
23.	2	C10x20	8'-5 1/2"	H34	
24.					
25.					
26.					
27.					
28.					
29.					
30.					
31.					
32.					
33.					

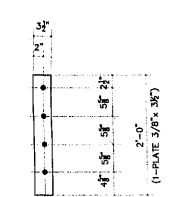
(SEE SHEET 9 FOR REMAINDER OF ANGLES)



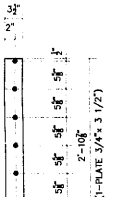
pb34 DETAIL
7 REQUIRED



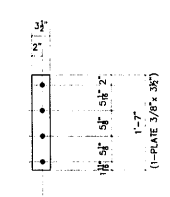
pb34 DETAIL
7 REQUIRED



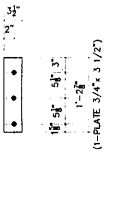
pb34 DETAIL
9 REQUIRED



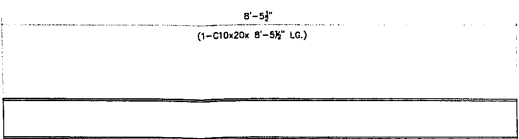
pb34 DETAIL
9 REQUIRED



pb34 DETAIL
36 REQUIRED



pb34 DETAIL
36 REQUIRED



2 - REPLACEMENT ANGLE - H34
REFERENCE SHEET # 22F EAST PIER PARTIAL PLAN
REMOVE EXISTING 10" C @ 20# V.I.F.
DRILL HOLES IN FIELD USE EXIST. AS TEMPLATE

GENERAL NOTES

- * - REPAIR STEEL FOR EAST APPROACH SPAN.
- 1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- 2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- 3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M16x GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- 4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- 5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- 6. CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BLASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINC M.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- 7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"
- 8. USE EXISTING HOLES TO FIELD DRILL HOLES IN NEW CHANNELS, ANGLES, AND ALL NEW FILL PLATES.
- 9. ALL BOLTS SHALL BE PLACED WITH WASHER AND NUT ON EAST SIDE OF WEB.

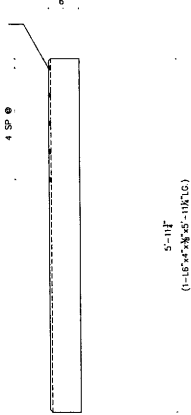
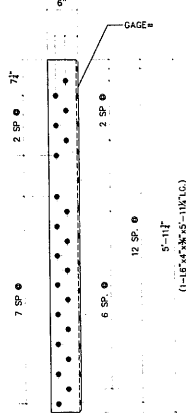
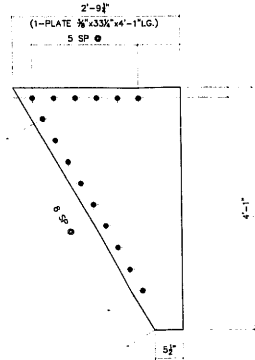
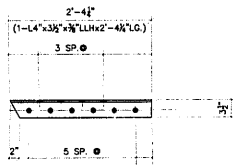
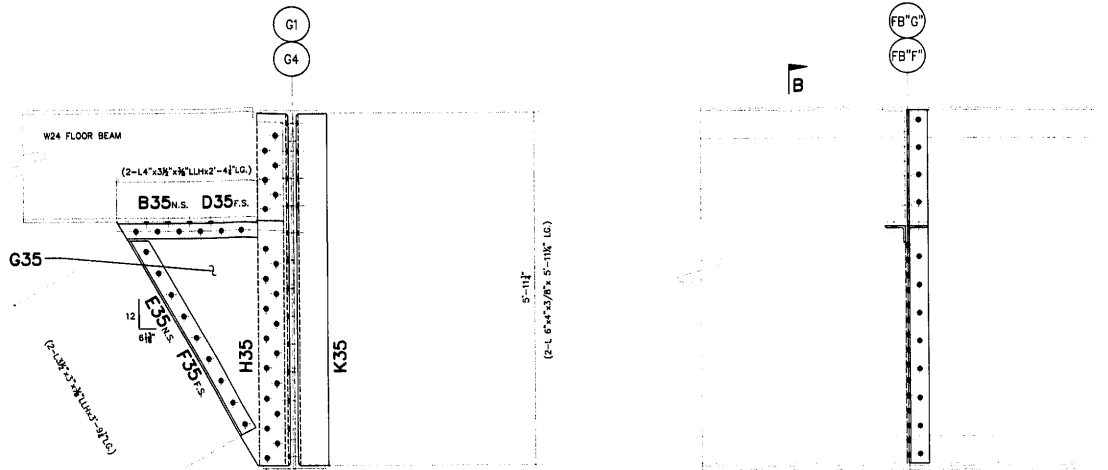
APPROVED
For the District Engineer and Materials Only
FEB 05 2013
(Signature)
Engineer of Structures

FIELD VERIFY ALL

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. I HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL ENGINEER AND I HAVE REVIEWED THIS DRAWING FOR ACCURACY AND COMPLETENESS. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE ACCURACY OR COMPLETENESS OF THIS DRAWING. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE ACCURACY OR COMPLETENESS OF THIS DRAWING. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE ACCURACY OR COMPLETENESS OF THIS DRAWING.	PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" WELDS = E70XX (MATT=ASTM A 36) } U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
NO. BY REVISIONS DATE DRAWN BY: GAH GAH ISSUED FOR APPROVAL 11/23/02 DATE: 11/18/02 GAH REVISED PER COMMENTS 12/23/02 CHECKED BY: DATE: APPROVED:	

DPD D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1483 SO. BROADWAY
COAL CITY, ILLINOIS 60416

ERECTION DWG. 22A thru 22F SCALE: 1"=1'		JOB NO:
SHEET TITLE	REPAIR DETAILS	
STRUCTURE	BRIDGE REHABILITATION	SHEET NO.
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96	
	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-4-1-1	
ENGINEER	WILL COUNTY, ILLINOIS	
ARCHITECT	PARSONS BRINCKERHOFF STRUCTURE # 099-9901	34



#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	3	BRACE ASSEMBLY	SEE BELOW	A35	
3.					
4.					
5.					
6.	3	L 4"x3 1/2"x3/8"	2'-4 1/4"	B35	
7.					
8.					
9.					
10.	3	L 4"x3 1/2"x3/8"	2'-4 1/4"	D35	
11.					
12.					
13.					
14.	3	L 3 1/2"x3"x3/8"	3'-9 1/4"	E35	
15.					
16.					
17.					
18.	3	L 3 1/2"x3"x3/8"	3'-9 1/4"	F35	
19.					
20.					
21.					
22.	3	PLATE 3/8"x 33 1/4"	4'-1"	G35	
23.					
24.					
25.					
26.	3	L 6"x4"x3/8"	5'-11 1/4"	H35	
27.					
28.					
29.					
30.	3	L 6"x4"x3/8"	5'-11 1/4"	K35	

- GENERAL NOTES**
- * - REPAIR STEEL FOR EAST APPROACH SPAN.
 - 1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
 - 2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
 - 3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M148 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
 - 4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
 - 5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
 - 6. CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
 - 7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

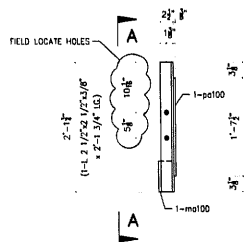
APPROVED
For Steel Fabricator
Meticulous
5/11/03
Ralph E. Williams
Engineer of Structures and Steel Construction

FIELD VERIFY ALL

SHEET TITLE	REPAIR DETAILS	JOB NO.	
STRUCTURE	EAST APPROACH		
	BRIDGE REHABILITATION		
LOCATION	CONTRACT # 6013 PROJECT # C-91-366-96	SHEET NO.	
	F.A.P. ROUTE 12 (ILLINOIS 51 RUBY STREET) SECTION M-8-DR-44-1		
ENGINEER	HILL COUNTY, ILLINOIS		
ARCHITECT	PARSONS BRINCKERHOFF		
	STRUCTURE # 099-9901		

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE DRAWING.		PAINT: INORGANIC ZINC RICH PRIMER		WELDS: 1/4"	
NO. BY		ISSUED FOR APPROVAL		DATE: 2/24/03	
REVISIONS		CHECKED BY:		DATE:	
DATE		APPROVED:			

D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

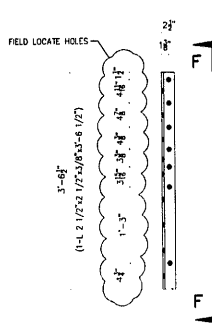


SECTION A-A

SECTION B-B

ONE - TRUSS GUARD ANGLE AS SHOWN - A100
ONE - TRUSS GUARD ANGLE OPPOSITE - B100

REFERENCE SHEET # 16A TRUSS GUARD
FIELD DRILL HOLES 15/16"

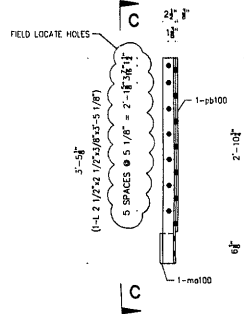


2 - TRUSS GUARD ANGLE AS SHOWN - N100
2 - TRUSS GUARD ANGLE OPPOSITE - P100

REFERENCE SHEET # 16A TRUSS GUARD / SECT. F-F
FIELD DRILL HOLES 15/16"

2 - TRUSS GUARD ANGLES AS SHOWN - T100
2 - TRUSS GUARD ANGLES OPPOSITE - V100

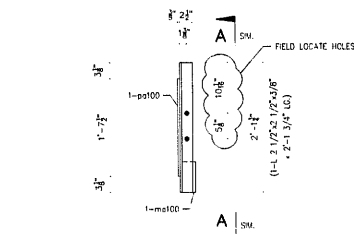
REFERENCE SHEET # 16D TRUSS GUARD / SECT. C-C
FIELD DRILL HOLES 15/16"



SECTION C-C

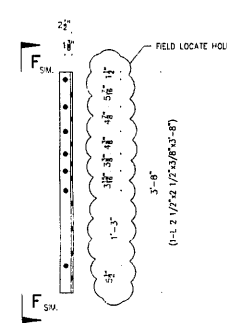
2 - TRUSS GUARD ANGLES AS SHOWN - D100
2 - TRUSS GUARD ANGLES OPPOSITE - E100

REFERENCE SHEET # 16A TRUSS GUARD / SECT. C-C
FIELD DRILL HOLES 15/16"



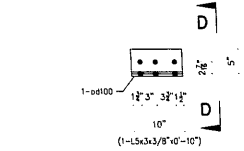
ONE - TRUSS GUARD ANGLE AS SHOWN - AA100
ONE - TRUSS GUARD ANGLE OPPOSITE - BB100

REFERENCE SHEET # 16D TRUSS GUARD
FIELD DRILL HOLES 15/16"



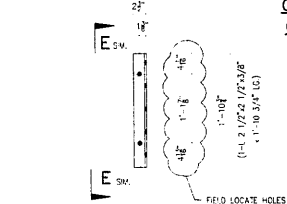
ONE - TRUSS GUARD ANGLE AS SHOWN - FF100
ONE - TRUSS GUARD ANGLE OPPOSITE - GG100

REFERENCE SHEET # 16D TRUSS GUARD / SECT. F-F
FIELD DRILL HOLES 15/16"



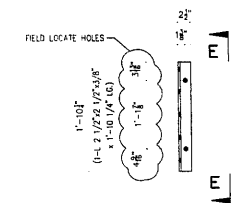
ONE - TRUSS GUARD ANGLE AS SHOWN - F100
ONE - TRUSS GUARD ANGLE OPPOSITE - G100

REFERENCE SHEET # 16A TRUSS GUARD / SECT. B-B
FIELD DRILL HOLES 15/16"



ONE - TRUSS GUARD ANGLE AS SHOWN - DD100
ONE - TRUSS GUARD ANGLE OPPOSITE - EE100

REFERENCE SHEET # 16D TRUSS GUARD / SECT. E-E
FIELD DRILL HOLES 15/16"



ONE - TRUSS GUARD ANGLE AS SHOWN - H100
ONE - TRUSS GUARD ANGLE OPPOSITE - K100

REFERENCE SHEET # 16A TRUSS GUARD / SECT. E-E
FIELD DRILL HOLES 15/16"

SECTION F-F

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	ONE	L2 1/2x2 1/2x3/8"	2'-1 3/4"	A100	
3.	ONE	PLATE 2 1/2 x 3/8"	1'-7 1/2"	pb100	
4.	ONE	CUT C15x33.9	0'-6"	mo100	
5.					
6.	ONE	L2 1/2x2 1/2x3/8"	2'-1 3/4"	B100	
7.	ONE			pb100	
8.	ONE			mo100	
9.					
10.	2	L2 1/2x2 1/2x3/8"	3'-5 1/8"	D100	
11.	2	PLATE 2 1/2 x 3/8"	2'-10 3/4"	pb100	
12.	2			mo100	
13.					
14.	2	L2 1/2x2 1/2x3/8"	3'-5 1/8"	E100	
15.	2			pb100	
16.	2			mo100	
17.					
18.	ONE	L 5x3x3/8"	0'-10"	F100	
19.	ONE	PLATE 1/2" x 9"	0'-10"	pb100	
20.					
21.	ONE	L 5x3x3/8"	0'-10"	G100	
22.	ONE			pb100	
23.					
24.	ONE	L2 1/2x2 1/2x3/8"	1'-10 1/4"	H100	
25.					
26.	ONE	L2 1/2x2 1/2x3/8"	1'-10 1/4"	K100	
27.					
28.	2	L2 1/2x2 1/2x3/8"	3'-6 1/2"	N100	
29.					
30.	2	L2 1/2x2 1/2x3/8"	3'-6 1/2"	P100	
31.					
32.	2	L2 1/2x2 1/2x3/8"	3'-5 1/8"	T100	
33.	2	PLATE 2 1/2 x 3/8"	2'-10 3/4"	pb100	
34.	2			mo100	
35.					
36.	2	L2 1/2x2 1/2x3/8"	3'-5 1/8"	V100	
37.	2			pb100	
38.	2			mo100	
39.					
40.	ONE	L2 1/2x2 1/2x3/8"	2'-1 3/4"	AA100	
41.	ONE	PLATE 2 1/2 x 3/8"	1'-7 1/2"	pb100	
42.	ONE	CUT C15x33.9	0'-6"	mo100	
43.					
44.	ONE	L2 1/2x2 1/2x3/8"	2'-1 3/4"	BB100	
45.	ONE			pb100	
46.	ONE			mo100	
47.					
48.	ONE	L2 1/2x2 1/2x3/8"	1'-10 3/4"	DD100	
49.					
50.	ONE	L2 1/2x2 1/2x3/8"	1'-10 3/4"	EE100	
51.					
52.	ONE	L2 1/2x2 1/2x3/8"	3'-8"	FF100	
53.					
54.	ONE	L2 1/2x2 1/2x3/8"	3'-8"	GG100	

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS MUST BE MADE WITH HIGH STRENGTH BOLTS #164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BLASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZNRY H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

FILE SET

APPROVED
For Main Dimensions and
Materials Only
APR 18 2003
R. L. Anderson
Engineer in Charge & Traffic Director

LEGEND

- FIELD DRILL HOLES 15/16"
- SHOP DRILL HOLES 15/16"

FIELD VERIFY ALL

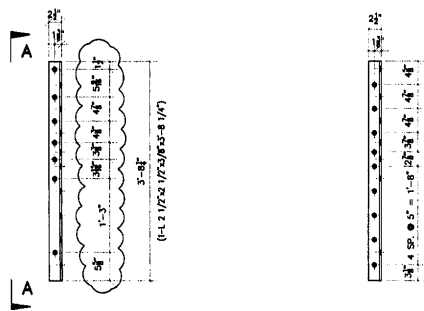
SCALE: 1"=1'

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. I HEREBY CERTIFY THAT I AM AN ENGINEER AND THE DESIGN IS MY OWN WORK AND I AM NOT PROVIDING ENGINEERING SERVICES TO ANY OTHER PARTY. I AM NOT PROVIDING ENGINEERING SERVICES TO ANY OTHER PARTY. I AM NOT PROVIDING ENGINEERING SERVICES TO ANY OTHER PARTY.		PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 WIRE FOR SHIPMENT ALL LOOSE CLIP AWAY		WELDS: 1/4" U.N.	
NO	BY	REVISIONS	DATE	DRAWN BY	CGF
Δ	GM	REVISED PER COMMENTS	4/15/03	DATE:	3/20/03
Δ				CHECKED BY:	
Δ				DATE:	
Δ				APPROVED:	



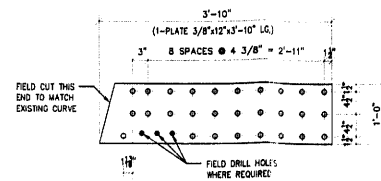
SHEET TITLE		REPAIR DETAILS		JOB NO:	
STRUCTURE	BRIDGE REHABILITATION	CONTRACT #	60193	PROJECT #	C-91-366-96
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION W-B-BR-44-1	SHEET NO:			
ENGINEER	WILL COUNTY, ILLINOIS				
ARCHITECT	PARSONS BRINCKERHOFF				
	STRUCTURE # 099-9901				

100



ONE - TRUSS GAURD ANGLE AS SHOWN - D101
ONE - TRUSS GAURD ANGLE OPPOSITE - B101
 REFERENCE SHEET # 16D TRUSS GAURD / SECT. B-B
 FIELD DRILL HOLES 15/16"

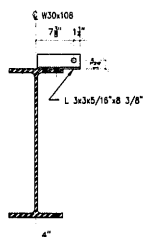
SECTION B-B



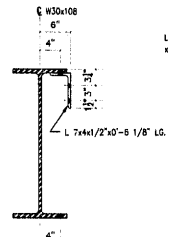
ONE - PLATE - F101
 REFERENCE SHEET # 16D PLATE P1
 SHOP DRILL HOLES 15/16" U.N.O.

ONE - TRUSS GAURD ANGLE AS SHOWN - A101
ONE - TRUSS GAURD ANGLE OPPOSITE - B101
 REFERENCE SHEET # 16D TRUSS GAURD / SECT. F-F
 FIELD DRILL HOLES 15/16"

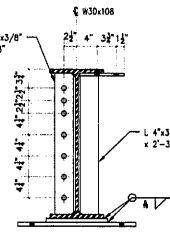
SECTION A-A



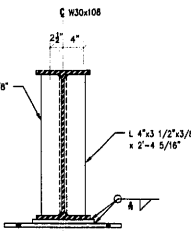
SECTION E-E



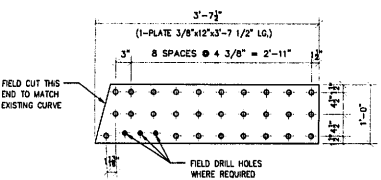
SECTION F-F



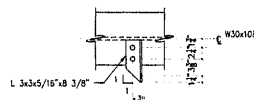
SECTION G-G



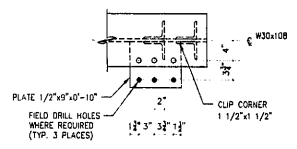
SECTION J-J



SECTION C-C



SECTION D-D

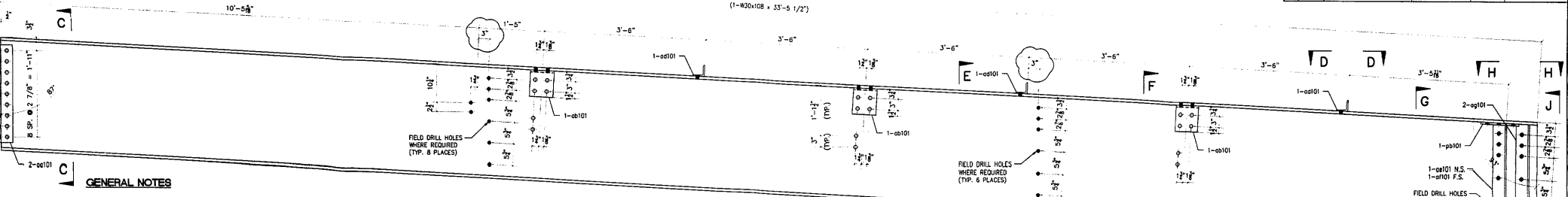


SECTION H-H

ONE - PLATE - G101
 REFERENCE SHEET # 16D PLATE P2
 SHOP DRILL HOLES 15/16" U.N.O.

SECTION C-C

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	ONE	L2 1/2x2 1/2x3/8	3'-8 1/4"	A101	
3.					
4.	ONE	L2 1/2x2 1/2x3/8	3'-8 1/4"	B101	
5.					
6.	ONE	L 5x3x3/8	0'-9"	D101	
7.	ONE	PLATE 1/2x6 3/4	0'-9"	pd101	
8.					
9.	ONE	L 5x3x3/8	0'-9"	F101	
10.	ONE			pd101	
11.					
12.	ONE	PLATE 3/8" x 12"	3'-10"	F101	
13.					
14.	ONE	PLATE 3/8" x 12"	3'-7 1/2"	G101	
15.					
16.	ONE	W30x108	33'-5 1/2"	H101	
17.	2	L3 1/2x3 1/2x3/8	2'-2"	aa101	
18.	3	L 7x4x1/2	0'-6 1/8"	ab101	
19.	3	L 3x3x5/16	0'-6 3/8"	ad101	
20.	ONE	L4x3 1/2x3/8	2'-3 13/16"	ae101	
21.	ONE	L4x3 1/2x3/8	2'-4 5/16"	af101	
22.	2	L4x3 1/2x3/8	2'-4 5/16"	ag101	
23.	ONE	PLATE 1/2"x9"	0'-10"	pd101	
24.	ONE	PLATE 1"x11"	1'-0"	pd101	BEVELED SOLE
25.	ONE	PLATE 3/4"x12"	1'-11"	pd101	BEARING PLATE
26.					
27.					
28.					
29.					
30.					
31.					
32.					
33.					
34.					
35.					
36.					
37.					
38.					
39.					
40.					
41.					
42.					
43.					
44.					
45.					
46.					
47.					
48.					
49.					
50.					
51.					
52.					
53.					
54.					



- GENERAL NOTES**
- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
 - ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR35 UNLESS NOTED OTHERWISE
 - BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M16+ GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
 - STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
 - IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
 - CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.) BE 15/16" UNLESS NOTED.
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
 - MTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

FIELD VERIFY ALL

ONE - SIDEWALK STRINGER - H101
 REFERENCE SHEET # 16B
 SHOP DRILL HOLES 15/16" U.N.O.

APPROVED
 For Math Department and
 Construction Entry
 APR 14 2003
 [Signature]
 Engineer of Design & Trade Structures

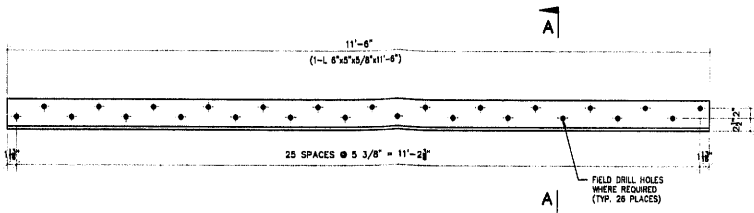
LEGEND
 • FIELD DRILL HOLES 15/16"
 ○ SHOP DRILL HOLES 15/16"

SCALE: 1"=1'

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. I HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL ENGINEER AND I AM NOT PROVIDING CONTRACT ADMINISTRATION OR CONSTRUCTION SUPERVISION FOR THIS PROJECT. I AM NOT PROVIDING CONTRACT ADMINISTRATION OR CONSTRUCTION SUPERVISION FOR THIS PROJECT.		PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 } U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	
NO. BY	REVISIONS	DATE	DRAWN BY: CGF
1	GW	REVISED PER COMMENTS 4/15/03	DATE: 3/20/03
2			CHECKED BY:
3			DATE:
4			APPROVED:

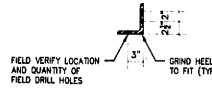
DP 'D' CONSTRUCTION INC.
 GENERAL CONTRACTOR
 1488 SO. BROADWAY
 COAL CITY, ILLINOIS 60416

REPAIR DETAILS		JOB NO:
SHEET TITLE	BRIDGE REHABILITATION	
STRUCTURE	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO:
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-4-I-1	101
ENGINEER	PARSONS BRINCKERHOFF	
ARCHITECT	STRUCTURE # 099-9901	

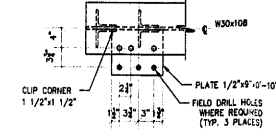


2 - ROADWAY STRINGERS - A102

REFERENCE SHEET # 16B
FIELD DRILL HOLES 15/16"

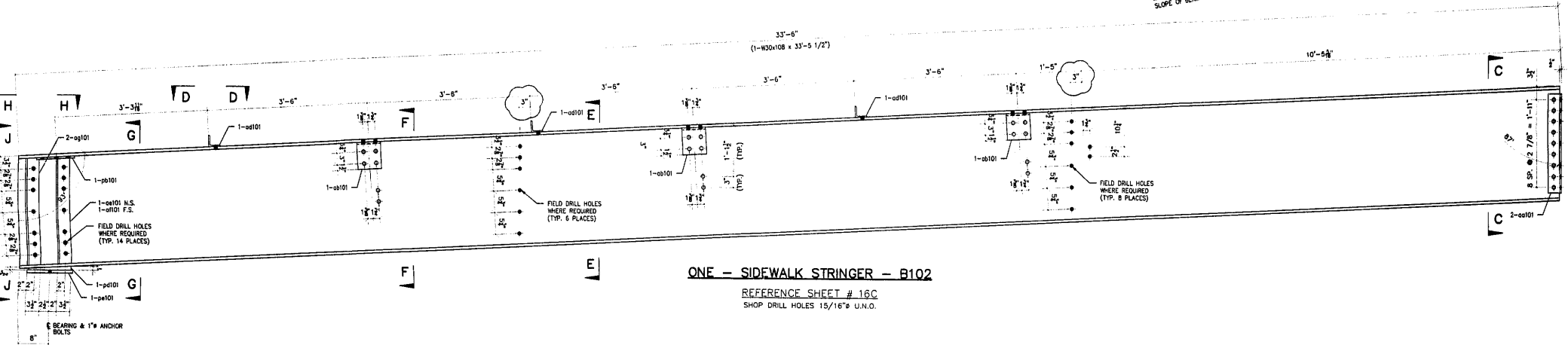
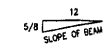


SECTION A-A



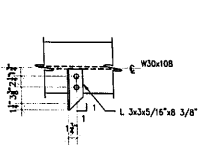
SECTION H-H

NO	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	2	L 6x5x5/8"	11'-6"	A102	CUT FROM 16x6x5/8"
3.					
4.	ONE	W30x108	33'-5 1/2"	B102	
5.	2	L 3 1/2x3 1/2x3/8"	2'-2"	ag101	
6.	3	L 7x4x1/2"	0'-6 1/8"	ob101	
7.	3	L 3x3x5/16"	0'-8 3/8"	od101	
8.	ONE	L4x3 1/2x3/8"	2'-3 13/16"	oe101	
9.	ONE	L4x3 1/2x3/8"	2'-4 5/16"	of101	
10.	2	L4x3 1/2x3/8"	2'-4 5/16"	og101	
11.	ONE	PLATE 1"x9"	0'-10"	od101	
12.	ONE	PLATE 1"x11"	1'-0"	od101	BEVELED SOLE
13.	ONE	PLATE 3/4"x12"	1'-11"	od101	BEARING PLATE
14.					
15.					
16.					

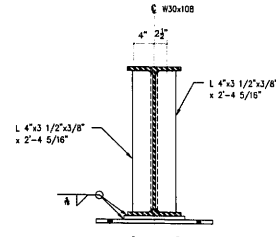


ONE - SIDEWALK STRINGER - B102

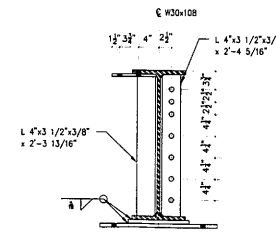
REFERENCE SHEET # 16C
SHOP DRILL HOLES 15/16" U.N.O.



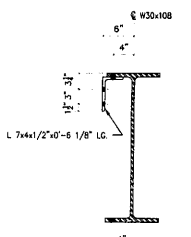
SECTION D-D



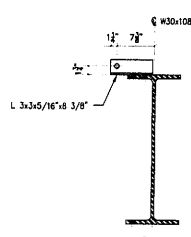
SECTION J-J



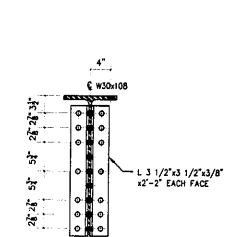
SECTION G-G



SECTION F-F



SECTION E-E



SECTION C-C

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET 'SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2'

FIELD VERIFY ALL

LEGEND

- FIELD DRILL HOLES 15/16"
- SHOP DRILL HOLES 15/16"

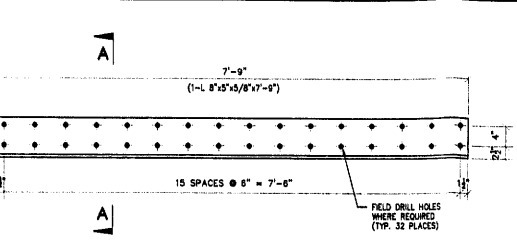
APPROVED
For South District
Katerina Ely
APR 18 2013
Ralph E. Anderson
Engineer of Design & Trade Structures

SCALE: 1"=1'

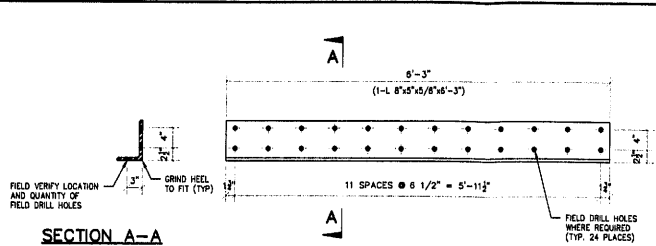
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT LOCATION, QUANTITY AND SIZE OF ALL FIELD DRILL HOLES FOR THE DESIGN OF THIS DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT LOCATION, QUANTITY AND SIZE OF ALL SHOP DRILL HOLES FOR THE DESIGN OF THIS DRAWING.	PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" WELDS = E70XX (MATL=ASTM A 36) U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
NO. BY REVISIONS DATE DRAWN BY: COF	DATE: 3/20/03
CAI REVISED PER COMMENTS 4/15/03	CHECKED BY:
DATE:	APPROVED:



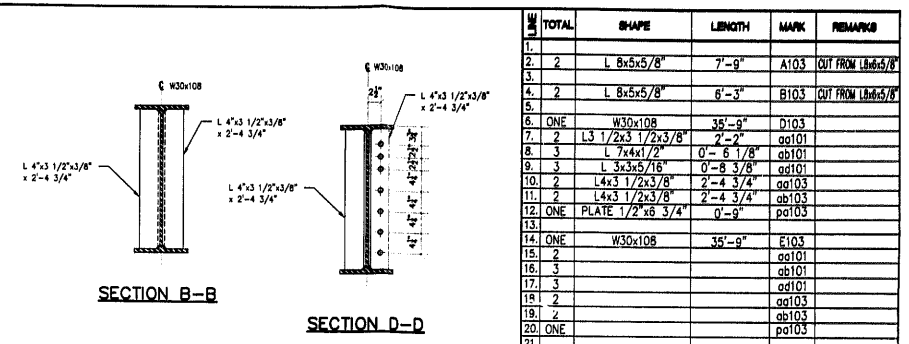
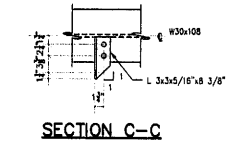
SHEET TITLE	REPAIR DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	CONTRACT # 60193 PROJECT # C-31-366-96 F.A.P. ROUTE 112 (ILLINOIS 53 RIBY STREET) SECTION W-8-BR-1+1 WILL COUNTY, ILLINOIS	SHEET NO:
ENGINEER	PARSONS BRINCKERHOFF	102
ARCHITECT	STRUCTURE # 099-9901	



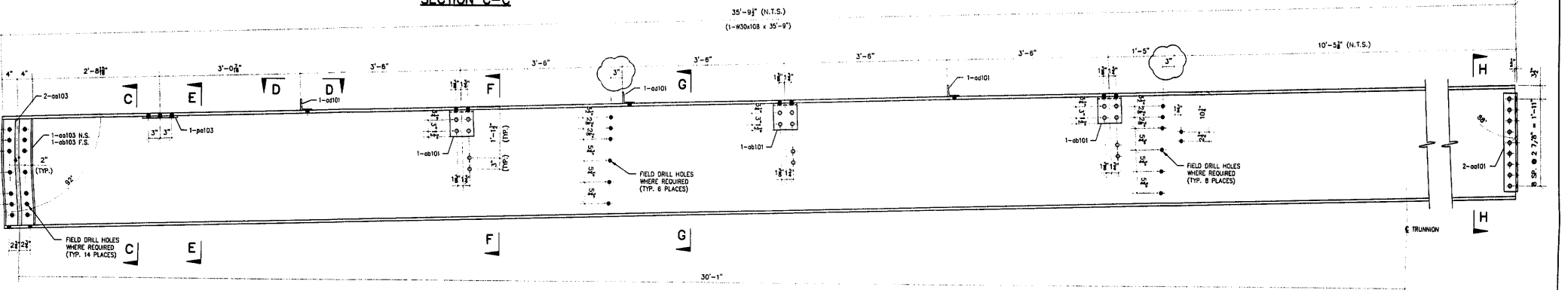
2 - ROADWAY STRINGERS - A103
 REFERENCE SHEET # 16E
 FIELD DRILL HOLES 15/16"



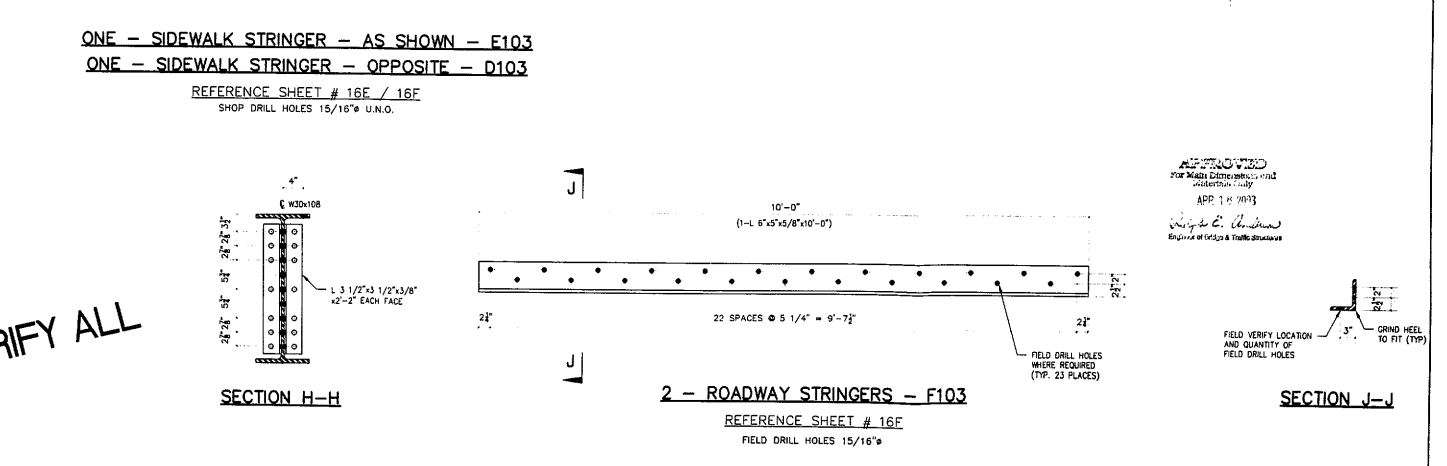
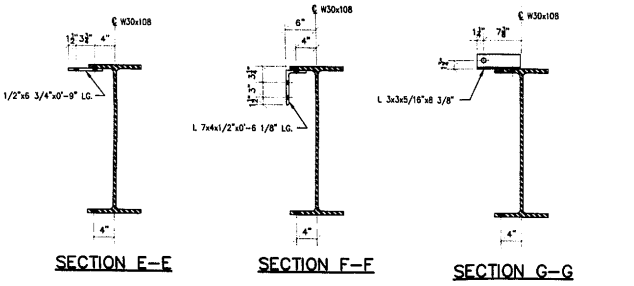
2 - ROADWAY STRINGERS - B103
 REFERENCE SHEET # 16F
 FIELD DRILL HOLES 15/16"



#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	2	L 8x5x5/8"	7'-9"	A103	OUT FROM 16e45/8"
3.					
4.	2	L 8x5x5/8"	6'-3"	B103	OUT FROM 16e45/8"
5.					
6.	ONE	W30x108	35'-9"	D103	
7.	2	L 3 1/2x3 1/2x3/8"	2'-2"	od101	
8.	3	L 7x4x1/2"	0'-6 1/8"	ob101	
9.	3	L 3x3x5/16"	0'-8 3/8"	od101	
10.	2	L 4x3 1/2x3/8"	2'-4 3/4"	od103	
11.	2	L 4x3 1/2x3/8"	2'-4 3/4"	ob103	
12.	ONE	PLATE 1/2"x8 3/4"	0'-9"	pd103	
13.					
14.	ONE	W30x108	35'-9"	E103	
15.	2			od101	
16.	3			ob101	
17.	3			od101	
18.	2			od103	
19.	2			ob103	
20.	ONE			pd103	
21.					
22.	2	L 6x5x5/8"	10'-0"	F103	OUT FROM 16e65/8"



ONE - SIDEWALK STRINGER - AS SHOWN - F103
ONE - SIDEWALK STRINGER - OPPOSITE - D103
 REFERENCE SHEET # 16E / 16F
 SHOP DRILL HOLES 15/16" U.N.O.



APPROVED
 FOR MAIN ESTIMATE
 11/11/03
 APD 11/11/03
 [Signature]
 REGIONAL VICE PRESIDENT

FIELD VERIFY ALL

GENERAL NOTES

ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.

ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.

BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS 1/4" DIA. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.

STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.

ALL CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.

CLEAN & PAINT:

A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.

B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)

C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER.

UTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS.

END

LEGEND

→ FIELD DRILL HOLES 15/16"

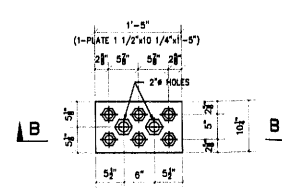
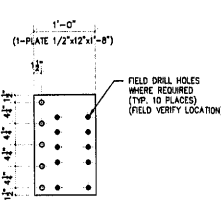
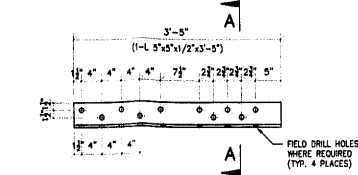
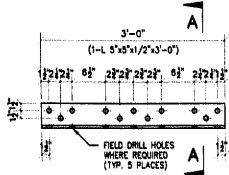
→ SHOP DRILL HOLES 15/16"

APPROVAL/REVIEW AUTHORITY:		PAINT: INORGANIC ZINC RICH PRIMER		WELDS: 1/4"	
PLEASE REVIEW THIS DRAWING CAREFULLY FOR CORRECTNESS AND COMPLETENESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES AND STRUCTURES.		HOLES: 15/16"		WELDS = E70XX MATL=ASTM A 36 U.N.	
NOI BY		REVISED PER COMMENTS 11/5/03		DATE (DRAWN BY): CGF	
AW		DATE: 3/20/03		CHECKED BY:	
		DATE:		APPROVED:	

D'D CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1488 SO. BROADWAY
 COAL CITY, ILLINOIS 60416

SHEET TITLE		REPAIR DETAILS		JOB NO:
STRUCTURE		BRIDGE REHABILITATION		SHEET NO: 103
LOCATION		CONTRACT # 60193 PROJECT # C-91-366-96		
ENGINEER		F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION W-B-DR-4-1-1		
ARCHITECT		WILL COUNTY, ILLINOIS		
		PARSONS BRINCKERHOFF		
		STRUCTURE # 099-8901		

SCALE: 1"=1'



ONE - FLOORBEAM AS SHOWN - A104
ONE - FLOORBEAM OPPOSITE - AA104

ONE - FLOORBEAM AS SHOWN - B104
ONE - FLOORBEAM OPPOSITE - D104

2 - FLOORBEAM PLATES - E104

SECTION A-A

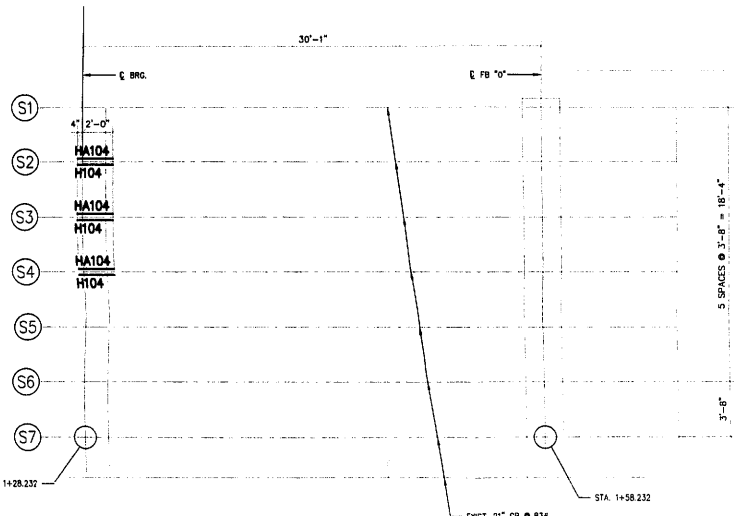
4 - ANCHORAGE RODS REPAIR PLATES - F104

REFERENCE SHEET # 16G
FLOORBEAM "C" NORTH END
SHOP DRILL HOLES 15/16" U.N.O.

REFERENCE SHEET # 16G
FLOORBEAM "C" SOUTH END
SHOP DRILL HOLES 15/16" U.N.O.

REFERENCE SHEET # 16G
FLOORBEAM "C" PLATE
SHOP DRILL HOLES 15/16" U.N.O.

REFERENCE SHEET # 16G
ANCHORAGE ROD REPAIR DETAIL
SHOP DRILL HOLES 1 5/8" U.N.O.



REFERENCE PARTIAL PLAN WEST FIXED SPAN

REFERENCE SHEET # 16H
SCALE: 1/4"=1'-0"

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.3.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"
- USE EXISTING HOLES TO FIELD DRILL HOLES IN NEW PLATES.

ONE - PLATE - E33
FLOOR BEAM FB EAST LEAF
TOP COVER PLATE

FOR BEAM N104 ONLY
• = FIELD DRILL HOLES 1 1/16"
• = FOR 1" A325 BOLTS

ONE - FLOOR BEAM - N104 SCALE: 1/2"=1'-0"
REFERENCE SHEET # 22K - FLOOR BEAM FB WEST LEAF / TOP COVER PLATE

FOR BEAM N104 ONLY
• = SHOP DRILL HOLES 15/16" COUNTERSUNK FOR 7/8" ASTM A 449 BOLTS (SEE SECT. D-D)
SCALE: 1"=1' U.N.O.

LEGEND (EXCEPT BEAM N104)

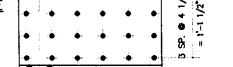
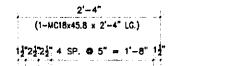
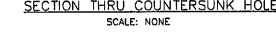
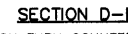
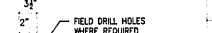
- FIELD DRILL HOLES 15/16"
- SHOP DRILL HOLES 15/16"

APPROVAL/REVIEW AUTHORITY:
PLEASE REVIEW THIS DRAWING CAREFULLY FOR ANY DISCREPANCIES BETWEEN THE STEEL FABRICATOR'S AND THE CONTRACTOR'S RECORD DRAWINGS AND THE FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD CONDITIONS.

PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" (WELDS = E70XX) MATL=ASTM A 36 U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
NOI BY REVISIONS DATE DRAWN BY: CGF
GHA REVISED PER COMMENTS 4/15/01 DATE: 3/20/03
CHECKED BY: DATE: APPROVED:

D CONSTRUCTION, INC.
GENERAL CONTRACTOR
1458 SO. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE	REPAIR DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	CONTRACT # 60193 PROJECT # C-91-358-96	SHEET NO:
ENGINEER	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION N-B-DR-44-1	104
ARCHITECT	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF STRUCTURE # 099-8901	

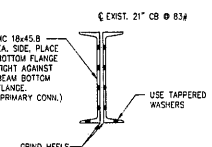


4 - PLATES - G104

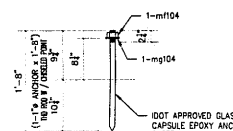
REFERENCE SHEET # 16G
FLOORBEAM "C" NORTH END / SOUTH END PLATES
FIELD DRILL HOLES 15/16"

3 - ROADWAY STRINGER REPAIR AS SHOWN - H104
3 - ROADWAY STRINGER REPAIR OPPOSITE - HA104

REFERENCE SHEET # 16H
ROADWAY STRINGER ELEVATION / SECTION A-A
FIELD DRILL HOLES 15/16"

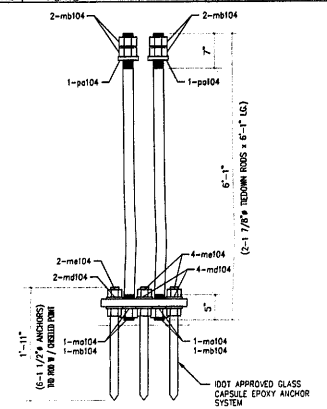


SECTION C-C



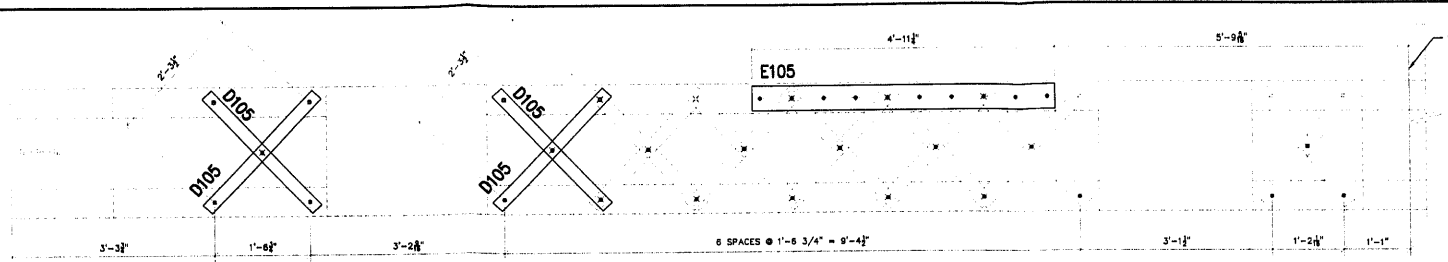
2 - BUMPER BLOCK ANCHOR BOLTS - K104
(HOT DIPPED GALVANIZED)

REFERENCE SHEET # 16H
PROPOSED BUMPER BLOCK



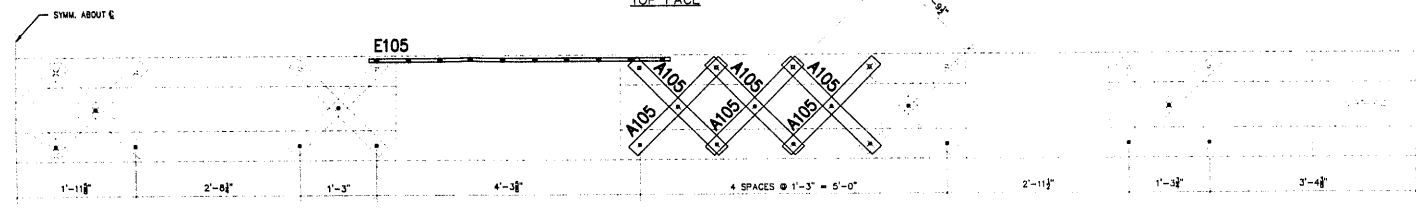
SECTION B-B
FIELD VERIFY ALL

APPROVED
FOR K104 ANCHOR BOLTS
APR 1 8 2003
Ralph E. Anderson
Structural Engineer & Traffic Structures



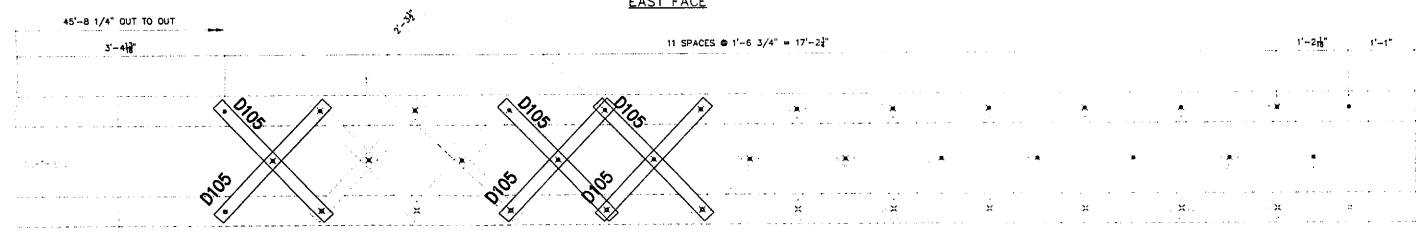
REFERENCE FLOORBEAM #1 STRUT EAST LEAF
REFERENCE SHEET # 22G
TOP FACE

10 - LACING BARS - A105
REFERENCE SHEET # 22G
LACING BAR A



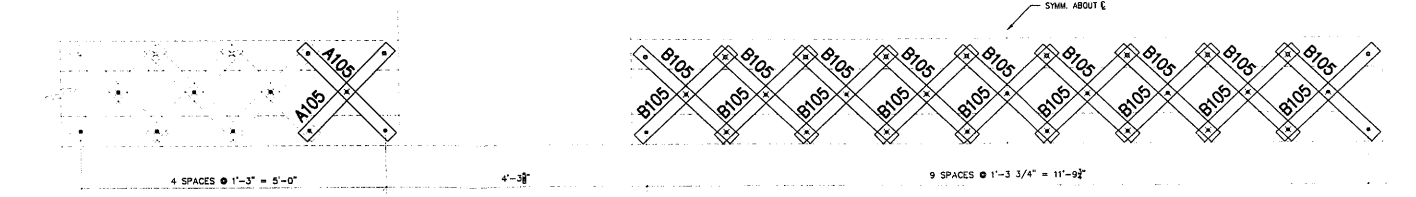
REFERENCE FLOORBEAM #1 STRUT EAST LEAF
REFERENCE SHEET # 22G
EAST FACE

18 - LACING BARS - B105
REFERENCE SHEET # 22G
LACING BAR B



REFERENCE FLOORBEAM #1 STRUT EAST LEAF
REFERENCE SHEET # 22H
BOTTOM FACE

10 - LACING BARS - D105
REFERENCE SHEET # 22G
LACING BAR C



REFERENCE FLOORBEAM #1 STRUT EAST LEAF
REFERENCE SHEET # 22H
WEST FACE

NO	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	10	BAR 3/8"x2 1/2"	2'-1 1/4"	A105	
3.					
4.	18	BAR 3/8"x2 1/2"	2'-2"	B105	
5.					
6.	10	BAR 3/8"x2 1/2"	2'-7 1/2"	D105	
7.					
8.	ONE	PLATE 3/4"x5"	4'-11 1/4"	E105	
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

APPROVED
For Math (2) electronic and
structural study
APR 18 2003
Kip E. Anderson
Highway Bridges & Traffic Structures

FIELD VERIFY ALL

SCALE: 1"=1'

LEGEND

- + FIELD DRILL HOLES 13/16"
- + SHOP DRILL HOLES 13/16"

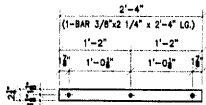
APPROVAL/REVIEW AUTHORITY:
PLEASE REVIEW THIS DRAWING CAREFULLY.
CONTRACTOR'S RESPONSIBILITY IS TO VERIFY THE FIELD CONDITIONS AND THE MATERIALS AND METHODS OF CONSTRUCTION SHOWN ON THIS DRAWING.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES EXISTING ON THE PROJECT.
NO PART OF THIS DRAWING IS TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT.

PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4"
HOLES: 15/16" WELDS = E70XX (MATT=ASIM A 36) U.N.
WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
NOI BY: REVISIONS DATE DRAWN BY: CGF
DATE: 3/20/03
CHECKED BY:
DATE:
APPROVED:

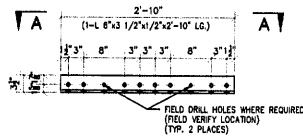
D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE	REPAIR DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO:
LOCATION	F.A.P. ROUTE #2 (GLINDS ST RUBY STREET) SECTON W-8-BR-4-1	105
ENGINEER	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF	
ARCHITECT	STRUCTURE # 099-9901	

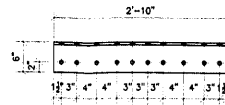
ONE - PLATE - E105



32 - LACING BARS - A106
REFERENCE SHEET # 22J

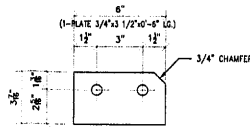
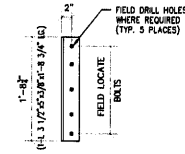


ONE - SPLICE ANGLE - B106
REFERENCE SHEET # 22J

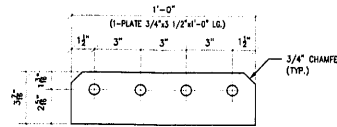


SECTION A-A

2 - VERTICAL STIFFENERS - D106
REFERENCE SHEET # 22J

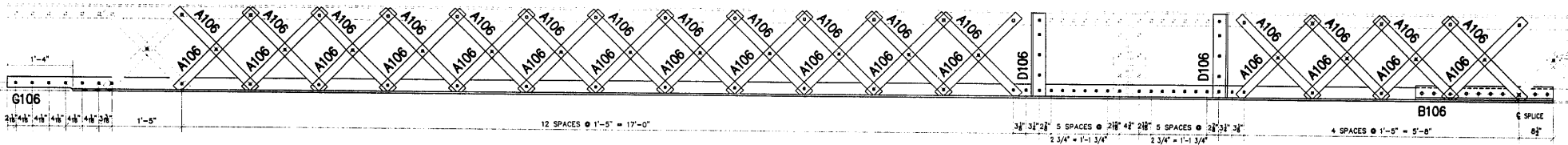


2 - FILL PLATE - E106
REFERENCE SHEET # 22J
SCALE: 3"=1'-0"

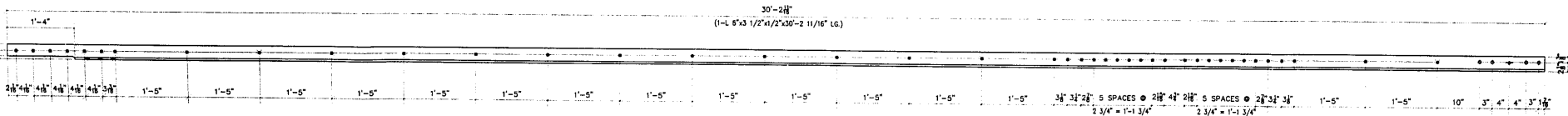


ONE - FILL PLATE - F106
REFERENCE SHEET # 22J
SCALE: 3"=1'-0"

NO	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	32	BAR 3/8" x 2 1/4"	2'-4"	A106	
3.					
4.	ONE	L 6" x 3 1/2" x 1/2"	2'-10"	B106	
5.					
6.	2	L 3 1/2" x 5" x 3/8"	1'-8 3/4"	D106	
7.					
8.	2	PLATE 3/4" x 3 1/2"	0'-6"	F106	
9.					
10.	ONE	PLATE 3/4" x 3 1/2"	1'-0"	F106	
11.					
12.	ONE	L 6" x 3 1/2" x 1/2"	30'-2 11/16"	G106	
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					



REFERENCE FLOORBEAM #2 STRUT EAST LEAF
REFERENCE SHEET # 22J
FACING EAST



ONE - STRUT ANGLE - G106
REFERENCE SHEET # 22J

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M184 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

APPROVED
 [Signature]
 APR 18 2013
 [Signature]
 Fabricator of Steel & Traffic Structures

FIELD VERIFY ALL

LEGEND

- FIELD DRILL HOLES 13/16"
- SHOP DRILL HOLES 13/16"

APPROVAL/REVIEW AUTHORITY:		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4"	
PLEASE REVIEW THIS DRAWING CAREFULLY FOR CORRECTIONS OR CHANGES TO THE DESIGN OR MATERIALS. FOR ANY CHANGES, CONTACT THE DESIGNER OR THE FABRICATOR FOR THE APPROPRIATE SIGNATURE AND DATE.		HOLES: 15/16" WELDS = E70XX MATL = ASTM A 36 U.N.	
WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES		NOI BY REVISIONS DATE DRAWN BY: CGF	
DATE: 3/20/03		GAR REVISED PER COMMENTS 4/15/03 DATE: 3/20/03	
CHECKED BY:		DATE:	
APPROVED:		DATE:	

D' CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1488 SO. BROADWAY
 COAL CITY, ILLINOIS 60416

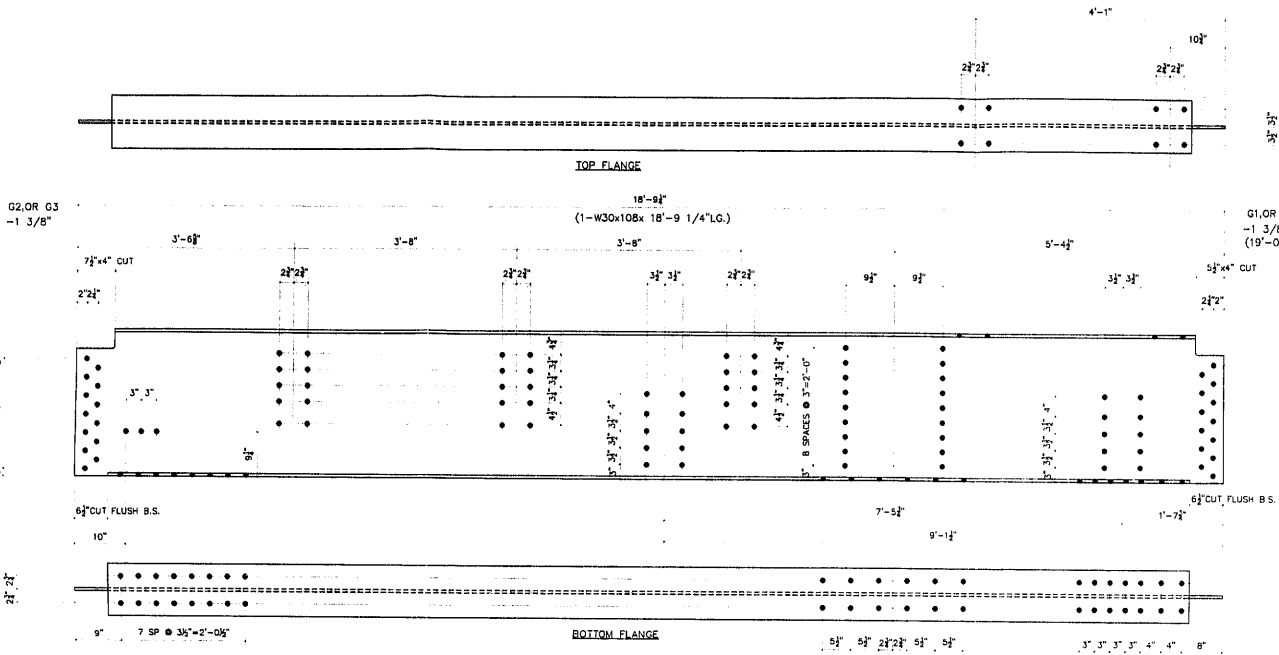
SHEET TITLE	REPAIR DETAILS	JOB NO.
STRUCTURE	BRIDGE REHABILITATION CONTRACT # 60193 PROJECT # C-91-366-98	SHEET NO.
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION U-5-DR-4-1-1	106
ENGINEER	PARSONS BRINCKERHOFF	
ARCHITECT	STRUCTURE # 089-9801	

SCALE: 1"=1' U.N.O.

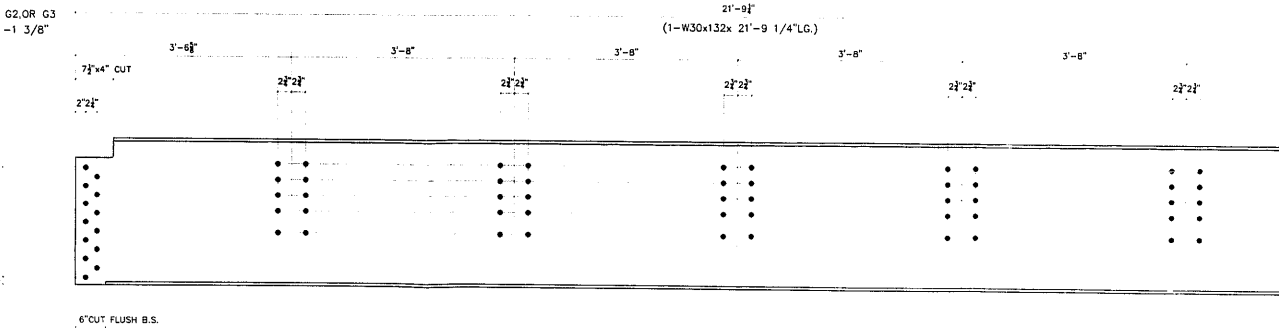
LEGEND

- FIELD DRILL HOLES
- SHOP DRILL HOLES
- 3/4" H.S. BOLTS WITH 13/16" HOLES USED FOR LACING BARS
- 7/8" H.S. BOLTS WITH 15/16" HOLES USED FOR ALL OTHER LOCATIONS

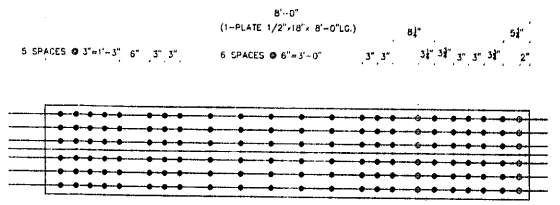
#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	ONE	W30x108	18'-9 1/4"	A111	
3.					
4.					
5.					
6.	ONE	W30x108	18'-9 1/4"	B111	
7.					
8.					
9.					
10.	ONE	W30x132	21'-9 1/4"	D111	
11.					
12.					
13.					
14.	ONE	PLATE 1/2"x18"	8'-0"	E111	
15.					
16.					
17.					
18.	2	L 2 1/2"x2 1/2"x1/4"	8'-5"	F111	3" CHAMBER
19.					
20.					



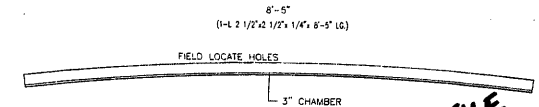
ONE - BEAM AS SHOWN - A111
 NORTH EAST ELEVATION OF FB" C"
ONE - BEAM AS OPPOSITE - B111
 SOUTH



ONE - BEAM - D111
 CENTER EAST ELEVATION OF FB" C"



ONE - PLATE - E111
 HORIZONTAL GIRDER SPLICE
 ABOVE FLOOR BEAM F1
 WEST LEAF



2 - VERT. FRAMING ANGLE - F111
 FOR NORTHEAST AND SOUTHEAST TRUSS GUARDS

FILE SET

FIELD VERIFY ALL

APPROVED FOR MGR. DESIGN AND CHECKS: J. C. ...
 JUL 01 2003
 Engineer of Design & Traffic Structures

GENERAL NOTES

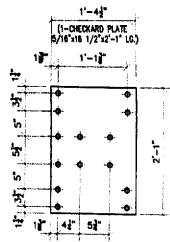
1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED
4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
6. CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
7. "N" DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"
8. USE EXISTING HOLES TO FIELD DRILL HOLES IN NEW PLATES.
9. REENTRANT CUTS SHALL HAVE A 3/4" MINIMUM RADIUS.

SCALE: 1"=1' U.N.O.

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY AND CONTACT CONTRACTOR IMMEDIATELY FOR ANY CORRECTIONS OR COMMENTS. THIS DRAWING IS THE PROPERTY OF THE CONTRACTOR AND IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED ON THE DRAWING.	PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX [MATL=ASTM A 36] U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
NO. BY REVISIONS DATE DRAWN BY: GAH GAH ISSUED FOR APPROVAL 5/15/03 DATE: 5/15/03 GAH REVISED PER COMMENTS 6/11/03 CHECKED BY: DATE: _____ APPROVED: _____	

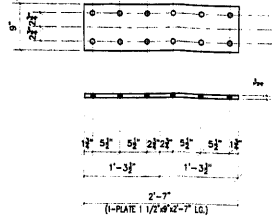
D' CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1488 SO. BROADWAY
 COAL CITY, ILLINOIS 60416

SHEET TITLE		REPAIR DETAILS	JOB NO:
STRUCTURE	CONTRACT # 00133	BRIDGE REHABILITATION	
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 51 BRIDGE)	SECTION # C-91-366-96	
ENGINEER	MILL COUNTY, ILLINOIS	SECTION W-B-0R-1-I-1	
ARCHITECT	PARSONS BRINCKERHOFF	STRUCTURE # 089-9901	



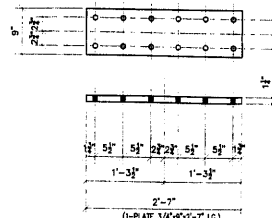
ONE - PLATE - A112

SOUTH WALKWAY @ FLOOR BEAM



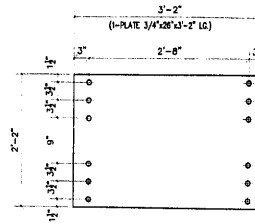
ONE - BEARING PLATE SHIMS - B112

WEST REAR LIVE LOAD ANCHORAGES
@ NORTHWEST



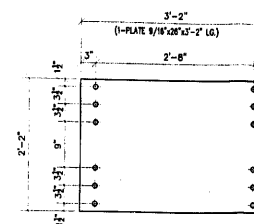
ONE - BEARING PLATE SHIMS - D112

WEST REAR LIVE LOAD ANCHORAGES
@ SOUTHWEST



ONE - PLATE - E112

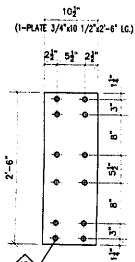
UPPER LIVE LOAD SUPPORT SHIMS
NORTHWEST



3 - PLATE - F112

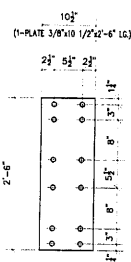
UPPER LIVE LOAD SUPPORT SHIMS
SOUTHWEST, NORTHEAST, SOUTHEAST

NO.	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	ONE	CK. PL. 5/16" x 16 1/2"	2'-1"	A112	
3.					
4.	ONE	PLATE 3/4" x 9"	2'-7"	B112	
5.					
6.	ONE	PLATE 1 1/4" x 9"	2'-7"	D112	
7.					
8.	ONE	PLATE 3/4" x 26"	3'-2"	E112	
9.					
10.	3	PLATE 9/16" x 26"	3'-2"	F112	
11.					
12.	2	PLATE 3/4" x 10 1/2"	2'-6"	G112	
13.					
14.	2	PLATE 3/8" x 10 1/2"	2'-6"	H112	
15.					
16.	ONE	PLATE 1/2" x 9"	3'-9"	K112	
17.					
18.	2	PLATE 3/4" x 13"	1'-4"	N112	
19.					
20.	ONE	PLATE 3/4" x 15"	1'-10"	P112	
21.					
22.	2	PLATE 3/4" x 15"	1'-8 1/2"	T112	
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
31.					
32.					
33.					
34.					
35.					
36.					
37.					
38.					



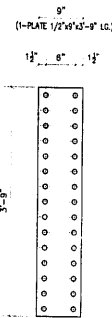
2 - PLATE - G112

EAST REAR ANCHORAGE WEAR PLATES
MOUNTED TO BOTTOM FLANGE OF
OF FB"C" @ C OF TRUSS ARM



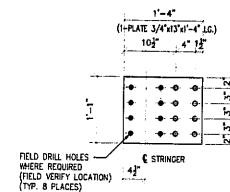
2 - PLATE - H112

EAST REAR ANCHORAGE SHIM PLATES
MOUNTED TO BOTTOM FLANGE OF
FB"C" @ C OF TRUSS ARM



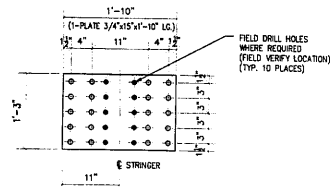
ONE - PLATE - K112

REPAIR PLATE FOR T/FLG OF FLOOR BEAM "D"
ON EAST APPROACH AT NORTH END TIGHT AGAINST
WB SIDEWALK STRINGER



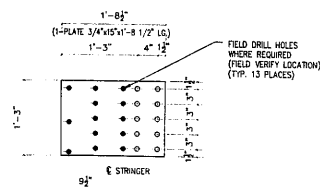
2 - PLATE - N112

REFERENCE SHEET # 6



ONE - PLATE - P112

REFERENCE SHEET # 6



2 - PLATE - T112

REFERENCE SHEET # 6

APPROVED
For Main Dimensions and
Materials Only
AUG 01 2003
Joseph E. Anderson
Engineer at Dwyer & Traffic Solutions

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

FIELD VERIFY ALL

LEGEND

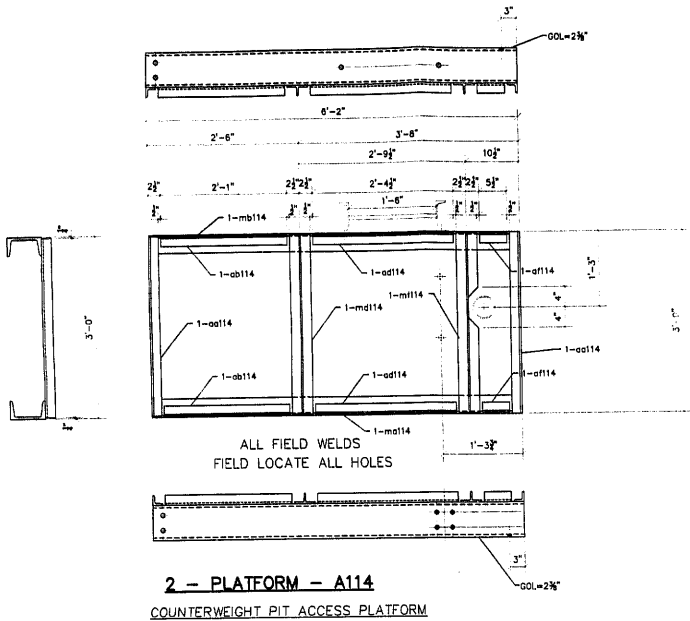
- FIELD DRILL HOLES 15/16"
- SHOP DRILL HOLES 15/16"

APPROVAL/REVIEW AUTHORITY: I HAVE REVIEWED THIS DRAWING CAREFULLY AND CONFIRMED THE DIMENSIONS AND MATERIALS LISTED THEREIN. I AM RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED AND THE INFORMATION FOR THE FIELD. I HAVE REVIEWED THE DRAWING FOR THE FIELD AND CONFIRMED THE DIMENSIONS AND MATERIALS LISTED THEREIN. I AM RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED AND THE INFORMATION FOR THE FIELD.		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX (MAT=ASTM A 36) U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	
NO. BY	REVISIONS	DATE	DRAWN BY: GAH
GAH	ISSUED FOR APPROVAL	7/14/03	DATE: 7/14/03
			CHECKED BY:
			DATE:
			APPROVED:

D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

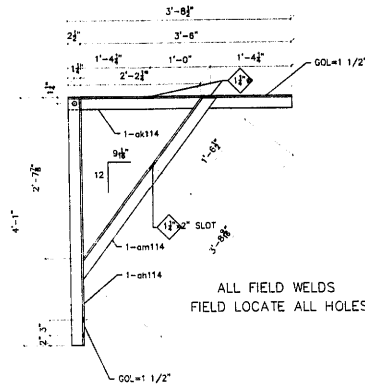
SHEET TITLE		REPAIR DETAILS		JOB NO:	
STRUCTURE		BRIDGE REHABILITATION		SHEET NO:	
LOCATION		F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION W-B-DR-4-I-1		112	
ENGINEER		WILL COUNTY, ILLINOIS		ARCHITECT	
ARCHITECT		PARSONS BRINCKERHOFF		STRUCTURE # 099-9901	

FILE SET



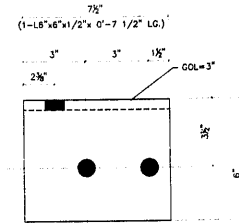
2 - PLATFORM - A114

COUNTERWEIGHT PIT ACCESS PLATFORM



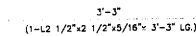
2 - SUPPORT RAIL GUIDE - B114

GUIDE FOR 1" Ø GUIDE RODS.



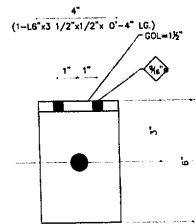
4 - PLATFORM CONNECTION CLIP - H114

2 AS SHOWN 2 OPPOSITE



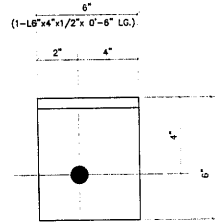
2 - HANDRAIL - G114

HANDRAIL LADDER SIDE



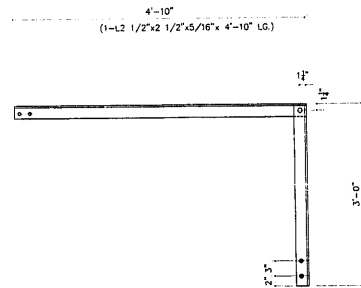
4 - LOWER CLIP - D114

LOWER LADDER CLIP



4 - LADDER BRACE CLIP - E114

UPPER LADDER CLIP



2 - HANDRAIL - F114

HANDRAIL OPPOSITE LADDER

NO.	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	2	PLATFORM	--	A114	
3.	4	L 2x2x3/8	2'-11 1/2"	ad114	
4.	4	L 2x2x3/8	2'-1"	ob114	
5.	4	L 2x2x3/8	2'-4 1/2"	ad114	
6.	4	L 2x2x3/8	0'-5 1/2"	af114	
7.	2	MC7x22.7	6'-2"	mb114	
8.	2	MC7x22.7	6'-2"	mb114	
9.	2	W12x7.5	2'-11 1/2"	md114	
10.	2	W12x7.5	2'-11 1/2"	ml114	
11.					
12.					
13.					
14.	2	SUPPORT RAIL GUIDE	--	B114	
15.	2	L 2 1/2x2 1/2x5/16	4'-0 1/2"	oh114	
16.	2	L 2 1/2x2 1/2x5/16	3'-8 1/2"	ok114	
17.	2	L 2 1/2x2 1/2x5/16	3'-8 9/16"	om114	
18.					
19.					
20.					
21.	4	L 6'x3 1/2'x1/2"	0'-4"	D114	
22.					
23.					
24.					
25.	4	L 6'x4'x1/2"	0'-6"	E114	
26.					
27.					
28.	2	L 2 1/2x2 1/2x5/16	2'-11 1/2"	F114	
29.	2	L 2 1/2x2 1/2x5/16	4'-10"	--	
30.					
31.					
32.					
33.					
34.	2	L 2 1/2x2 1/2x5/16	3'-3"	G114	
35.					
36.					
37.					
38.	2	L 6'x6'x1/2"	0'-7 1/2"	H114	

APPROVED
For Main Dimensions and
Material Only
AUG 5 1981
R. E. Anderson
Engineer of Bridge & Traffic Structures

GENERAL NOTES

1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M184 GALV. 3/4" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
6. CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

FIELD VERIFY ALL

LEGEND

- SHOP DRILL HOLES
- FIELD DRILL HOLES

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. A SIGNATURE AND DATE SHALL BE OBTAINED FOR THE CONTRACT DOCUMENTS. THESE ARE THE RESPONSIBILITIES OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION AND DATA PROVIDED TO THE CONTRACTOR.	PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 13/16" WELDS = E70XXI MAT'L W/ASTM A 36 WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	U.N.
NO. BY REVISIONS DATE DRAWN BY: GAH	ISSUED FOR APPROVAL 1/22/81 DATE: 7/22/83	
	CHECKED BY:	
	DATE:	
	APPROVED:	

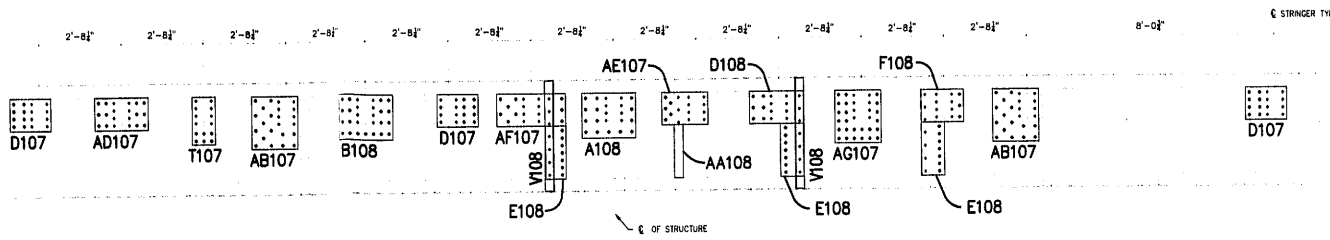
D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE		REPAIR DETAILS		JOB NO:
STRUCTURE	BRIDGE REHABILITATION	CONTRACT # 60193	PROJECT # C-91-366-96	SHEET NO:
LOCATION	FAR ROUTE 112 (ILLINOIS 33 RUBY STREET) SECTION W-B-38-4-1-1	WILL COUNTY, ILLINOIS		114
ENGINEER	PARSONS BRINCKERHOFF	STRUCTURE # 099-9901		
ARCHITECT				

SCALE: 1"=1' U.N.O.

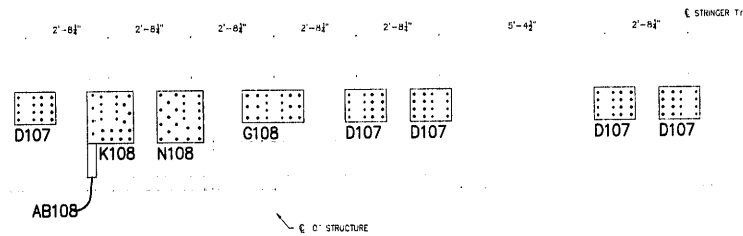
GENERAL NOTES

1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR38 UNLESS NOTED OTHERWISE
3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M16X GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
6. CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"



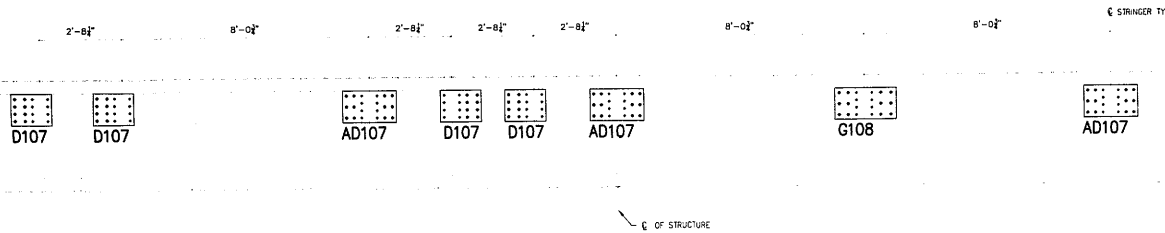
REFERENCE FLOORBEAM F5 WEST LEAF

REFERENCE SHEET # 22P
(LOOKING WEST)



REFERENCE FLOORBEAM F6 WEST LEAF

REFERENCE SHEET # 22Q
(LOOKING WEST)



REFERENCE FLOORBEAM F7 WEST LEAF

REFERENCE SHEET # 22R
(LOOKING WEST)

APPROVED
FOR THE CONTRACTOR
MAY 21 2003
[Signature]
Engineer of Record & Seal No. 039-9901

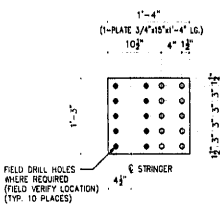
SCALE: 1/2"=1' U.N.O.

FIELD VERIFY ALL

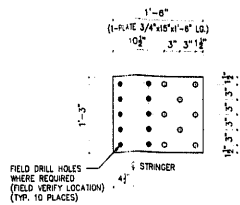
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. IF REVISIONS ARE MADE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT FABRICATION AND THE STRUCTURE SHALL BE CONSIDERED AS THE RESPONSIBILITY OF THE OWNER.		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX (MATT=ASTM A 36) U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	
NO	BY	REVISIONS	DATE
Δ	GAH	REVISED PER COMMENTS S/W/AV	DATE: 4/21/03
Δ			CHECKED BY:
Δ			DATE:
Δ			APPROVED:

D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1489 SO. BROADWAY
COAL CITY, ILLINOIS 60416

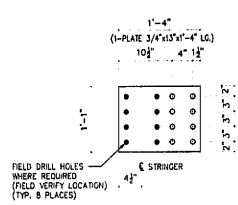
SHEET TITLE	ERECTOR ELEVATIONS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO:
ENGINEER	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-8-1R-4-1-1	
ARCHITECT	WILL COUNTY, ILLINOIS	
	PARSONS BRINCKERHOFF	E101
	STRUCTURE # 099-9901	



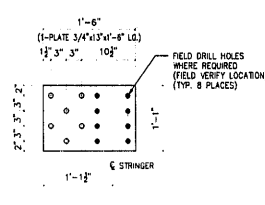
9 - PLATE - A107
REFERENCE SHEET # 22L



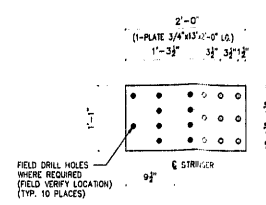
ONE - PLATE - B107
REFERENCE SHEET # 22L



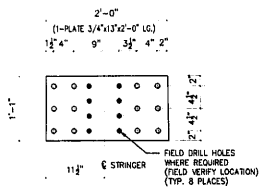
18 - PLATE - D107
3 - REFERENCE SHEET # 22M
3 - REFERENCE SHEET # 22N
3 - REFERENCE SHEET # 22P
5 - REFERENCE SHEET # 22Q
4 - REFERENCE SHEET # 22R



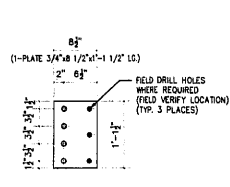
2 - PLATE - E107
ONE - REFERENCE SHEET # 22M
ONE - REFERENCE SHEET # 22N



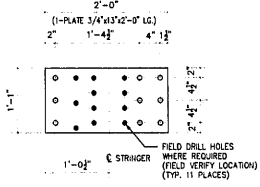
ONE - PLATE - F107
REFERENCE SHEET # 22M



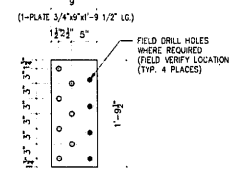
ONE - PLATE - G107
REFERENCE SHEET # 22M



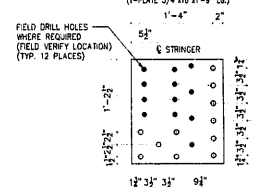
ONE - PLATE - H107
REFERENCE SHEET # 22N



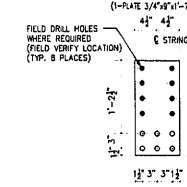
ONE - PLATE - K107
REFERENCE SHEET # 22N



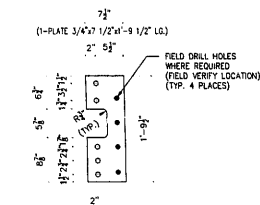
ONE - PLATE - N107
REFERENCE SHEET # 22N



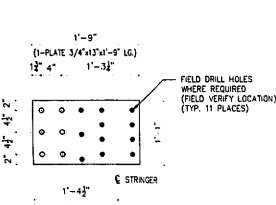
ONE - PLATE - P107
REFERENCE SHEET # 22N



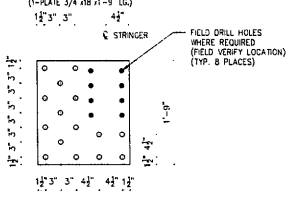
2 - PLATE - T107
ONE - REFERENCE SHEET # 22N
ONE - REFERENCE SHEET # 22P



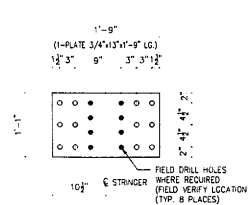
ONE - PLATE - V107
REFERENCE SHEET # 22N



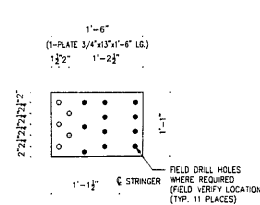
ONE - PLATE - AA107
REFERENCE SHEET # 22N



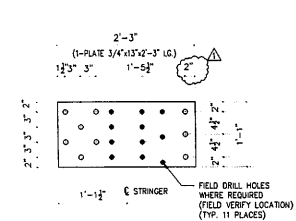
3 - PLATE - AB107
ONE - REFERENCE SHEET # 22N
2 - REFERENCE SHEET # 22P



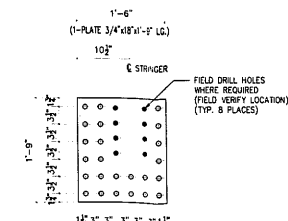
4 - PLATE - AD107
ONE - REFERENCE SHEET # 22P
3 - REFERENCE SHEET # 22R



ONE - PLATE - AE107
REFERENCE SHEET # 22P



ONE - PLATE - AF107
REFERENCE SHEET # 22P



ONE - PLATE - AG107
REFERENCE SHEET # 22P

- LEGEND**
- FIELD DRILL HOLES 15/16"
 - ◊ SHOP DRILL HOLES 15/16"

FIELD VERIFY ALL

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	9	PLATE 3/4" x 15"	1'-4"	A107	
3.					
4.	ONE	PLATE 3/4" x 15"	1'-6"	B107	
5.					
6.	18	PLATE 3/4" x 13"	1'-4"	D107	
7.					
8.	2	PLATE 3/4" x 13"	1'-6"	E107	
9.					
10.	ONE	PLATE 3/4" x 13"	2'-0"	F107	
11.					
12.	ONE	PLATE 3/4" x 13"	2'-0"	G107	
13.					
14.	ONE	PLATE 3/4" x 8 1/2"	1'-1 1/2"	H107	
15.					
16.	ONE	PLATE 3/4" x 13"	2'-0"	K107	
17.					
18.	ONE	PLATE 3/4" x 9"	1'-9 1/2"	N107	
19.					
20.	ONE	PLATE 3/4" x 18"	1'-9"	P107	
21.					
22.	2	PLATE 3/4" x 9"	1'-7"	T107	
23.					
24.	ONE	PLATE 3/4" x 7 1/2"	1'-9 1/2"	V107	
25.					
26.	ONE	PLATE 3/4" x 13"	1'-9"	AA107	
27.					
28.	3	PLATE 3/4" x 18"	1'-9"	AB107	
29.					
30.	4	PLATE 3/4" x 13"	1'-9"	AD107	
31.					
32.	ONE	PLATE 3/4" x 13"	1'-6"	AE107	
33.					
34.	ONE	PLATE 3/4" x 13"	2'-3"	AF107	
35.					
36.	ONE	PLATE 3/4" x 18"	1'-9"	AG107	
37.					
38.					

APPROVED
FOR NOTCH DIMENSIONS AND
MAY 01 2013
Parsons Brinckerhoff
Professional Engineer

GENERAL NOTES

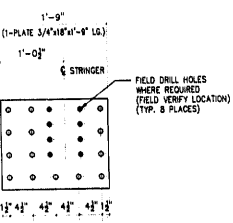
- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

SCALE: 1"=1' U.N.O.

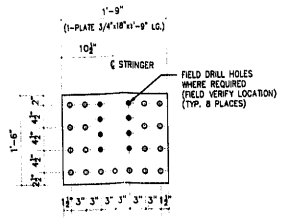
APPROVAL/REVIEW AUTHORITY:		PAINT: INORGANIC ZINC RICH PRIMER		WELDS: 1/4"	
PLEASE REFER TO THE DRAWING FOR THE LOCATION OF THE NOTCHES AND THE LOCATION OF THE NOTCHES TO BE MADE.		HOLES: 15/16"		WELDS = E70XX (MATERIAL = ASTM A 36) U.N.	
FOR THE SPECIFICATION OF THE MATERIAL TO BE USED FOR THE FABRICATION OF THE NOTCHES.		WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES			
NO.	BY	REVISIONS	DATE	DRAWN BY:	GAH
1	GAH	REVISED PER COMMENTS	5/20/13	DATE:	4/21/03
2				CHECKED BY:	
3				DATE:	
4				APPROVED:	



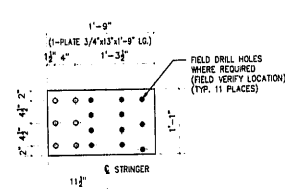
SHEET TITLE	REPAIR DETAILS	JOB NO.
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-8-DR-4-1-1	SHEET NO.
ENGINEER	WILL COUNTY, ILLINOIS	107
ARCHITECT	PARSONS BRINCKERHOFF STRUCTURE # 099-9901	



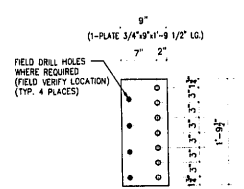
1 - PLATE - A108
REFERENCE SHEET # 22P



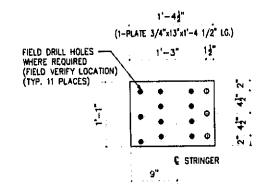
ONE - PLATE - B108
REFERENCE SHEET # 22P



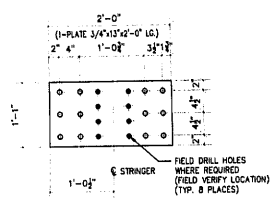
ONE - PLATE - D108
REFERENCE SHEET # 22P



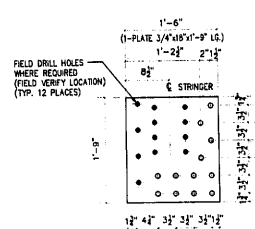
3 - PLATE - E108
REFERENCE SHEET # 22P



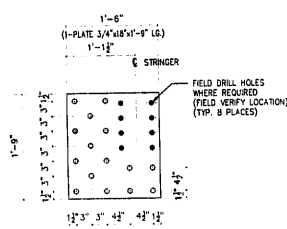
ONE - PLATE - F108
REFERENCE SHEET # 22P



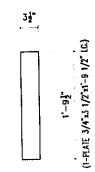
2 - PLATE - G108
ONE - REFERENCE SHEET # 22Q
ONE - REFERENCE SHEET # 22R



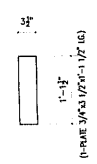
ONE - PLATE - K108
REFERENCE SHEET # 22Q



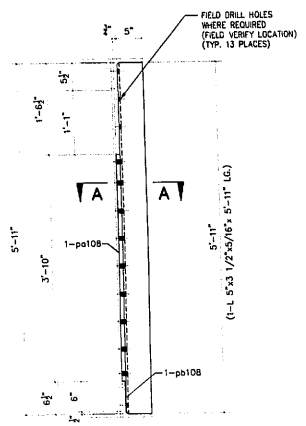
ONE - PLATE - N108
REFERENCE SHEET # 22Q



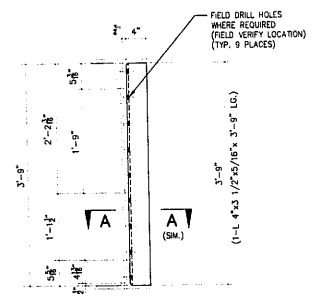
ONE - FILL PLATE - AA108
REFERENCE SHEET # 22P



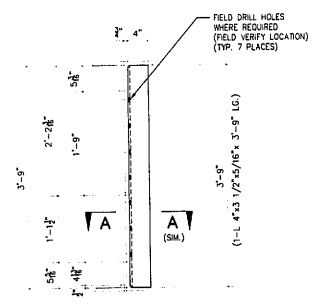
ONE - FILL PLATE - AB108
REFERENCE SHEET # 22Q



ONE - REPAIR ANGLE - P108
REFERENCE SHEET # 22M TYP. SECTION FLOOR BEAM F.3



ONE - REPAIR ANGLE - T108
REFERENCE SHEET # 22N TYP. SECTION FLOOR BEAM F.4



ONE - REPAIR ANGLE - V108
REFERENCE SHEET # 22P TYP. SECTION FLOOR BEAM F.5

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.					
3.					
4.	ONE	PLATE 3/4" x 18"	1'-9"	A108	
5.					
6.	ONE	PLATE 3/4" x 18"	1'-9"	B108	
7.					
8.	ONE	PLATE 3/4" x 13"	1'-9"	D108	
9.					
10.	3	PLATE 3/4" x 9"	1'-9 1/2"	E108	
11.					
12.	ONE	PLATE 3/4" x 13"	1'-4 1/2"	F108	
13.					
14.	2	PLATE 3/4" x 13"	2'-0"	G108	
15.					
16.	ONE	PLATE 3/4" x 18"	1'-9"	K108	
17.					
18.	ONE	PLATE 3/4" x 18"	1'-9"	N108	
19.					
20.	ONE	L 5x3 1/2 x5/16"	5'-11"	P108	
21.	ONE	PLATE 3/4" x 3 1/2"	3'-10"	pa108	
22.	ONE	PLATE 1/8" x 3 1/2"	0'-5"	pb108	
23.					
24.	ONE	L 4x3 1/2 x5/16"	3'-9"	T108	
25.					
26.	ONE	L 4x3 1/2 x5/16"	3'-9"	V108	
27.					
28.	ONE	PLATE 3/4" x 3 1/2"	1'-9 1/2"	AA108	
29.					
30.	ONE	PLATE 3/4" x 3 1/2"	1'-1 1/2"	AB108	
31.					
32.					
33.					
34.					
35.					
36.					
37.					
38.					

REVISIONS
For Shop Drawing
MAY 11 1983
Eugene C. Brinkhoff
Engineer of Structures

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK S.H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

SCALE: 1"=1' U.N.O.

FIELD VERIFY ALL

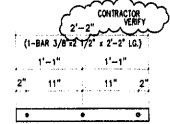
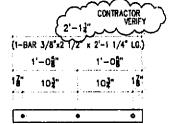
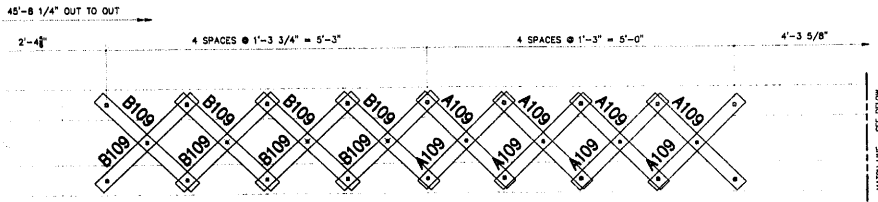
- LEGEND**
- FIELD DRILL HOLES 15/16"
 - SHOP DRILL HOLES 15/16"

APPROVAL / REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. I HEREBY GIVE MY APPROVAL TO THE FABRICATION OF THIS STRUCTURE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, SPECIFICATIONS AND THE SHOP DRAWINGS. I AM NOT PROVIDING ANY WARRANTY FOR THE CORRECTNESS OF THE INFORMATION ON THIS DRAWING. UNLESS NOTED TO THE CONTRARY, THIS DRAWING, WHEN IT IS REFERRED TO IN THE CONTRACT, SHALL BE CONSIDERED AS THE FINAL AUTHORITY. REVISIONS TO THIS DRAWING WILL BE INDICATED BY A CIRCLED NUMBER AND A DATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AND STATE AUTHORITIES.		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70X8 MATL=ASTM A 36 WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES		U.N. 4/21/03
NO	BY	REVISIONS	DATE DRAWN BY	
Δ	GH	REVISED PER COMMENTS	DATE	4/21/03
Δ			CHECKED BY:	
Δ			DATE:	
Δ			APPROVED:	

D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE		REPAIR DETAILS		JOB NO.
STRUCTURE	BRIDGE REHABILITATION	CONTRACT # 60193	PROJECT # C-91-368-96	SHEET NO: 108
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-8-DR-4-1-1	WILL COUNTY, ILLINOIS		
ENGINEER	PARSONS BRINCKERHOFF	STRUCTURE # 099-9901		
ARCHITECT				

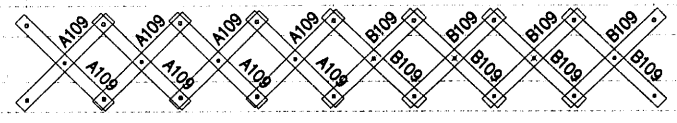
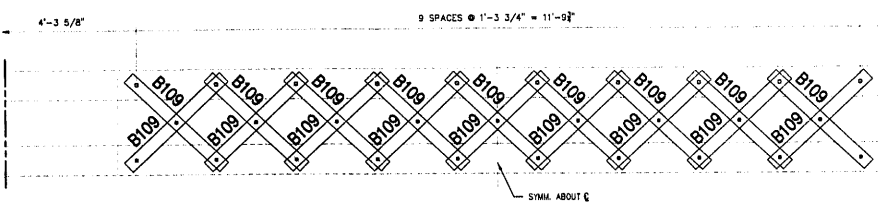
SECTION A-A



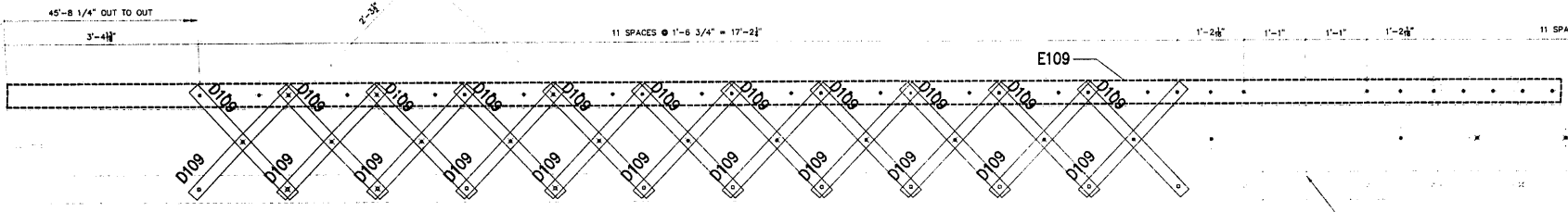
16 - LACING BAR - A109
 REFERENCE SHEET # 22T
 LACING BAR A

34 - LACING BAR - B109
 REFERENCE SHEET # 22T
 LACING BAR B

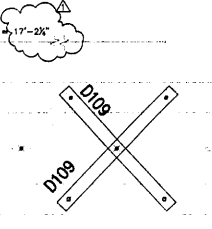
NO.	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	16	BAR 3/8" x 2 1/2"	2'-1 1/4"	A109	
3.					
4.	34	BAR 3/8" x 2 1/2"	2'-2"	B109	
5.					
6.	24	BAR 3/8" x 2 1/2"	2'-7 1/2"	D109	
7.					
8.	ONE	PLATE 3/4" x 5"	27'-4"	E109	
9.					
10.					



REFERENCE FLOORBEAM #1 STRUT WEST LEAF
 REFERENCE SHEET # 22T
 EAST FACE



REFERENCE FLOORBEAM #1 STRUT WEST LEAF
 REFERENCE SHEET # 22T
 BOTTOM FACE



ONE - PLATE - E109
 REFERENCE SHEET # 22T

24 - LACING BAR - D109
 REFERENCE SHEET # 22T
 LACING BAR C

GENERAL NOTES

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- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

FIELD VERIFY ALL

LEGEND

- FIELD DRILL HOLES
 - SHOP DRILL HOLES
- 3/4" H.S. BOLTS WITH 13/16" HOLES USED FOR LACING BARS

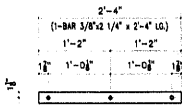
APPROVED
 For Work Contract No. 60193
 MAY 11 2013
 Ralph C. Williams
 Engineer of Design & Trade Services

SCALE: 1"=1' U.N.O.

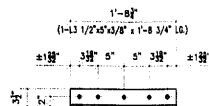
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. I HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL ENGINEER AND THE DESIGN AND CALCULATIONS ARE MY OWN WORK. THIS IS THE RESPONSIBILITY OF THE ENGINEER. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE DESIGN OR CALCULATIONS. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE DESIGN OR CALCULATIONS. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE DESIGN OR CALCULATIONS.	PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" (WELDS = E70XX) MATL=ASTM A 36 } U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	WELDS: 1/4" DATE: 4/21/03
NOI BY: GAH	REVISIONS	DRAWN BY: GAH
GAH	REVISED PER COMMENTS 5/30/03	CHECKED BY:
		DATE:
		APPROVED:

D'D CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1485 SO. BROADWAY
 COAL CITY, ILLINOIS 60416

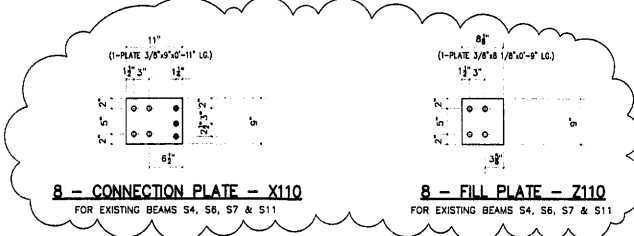
SHEET TITLE	REPAIR DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	SHEET NO:
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RIBBY STREET) SECTION #B-DR-44-1	109
ARCHITECT	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF STRUCTURE # 099-9901	



18 - LACING BAR - A110
REFERENCE SHEET # 22U
LACING BAR



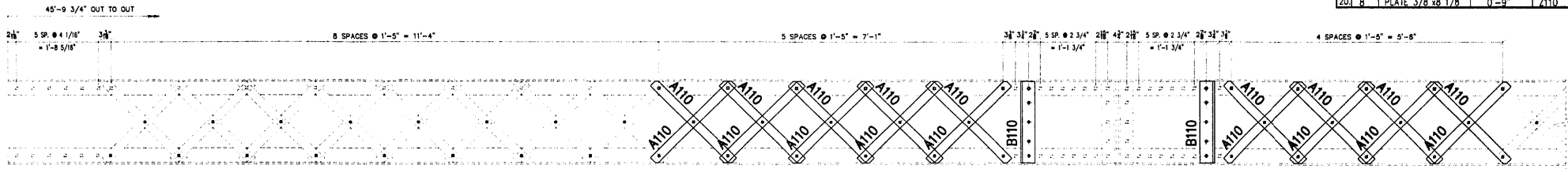
2 - VERTICAL STIFFENER - B110
(NOT FIT)
REFERENCE SHEET # 22U
VERTICAL STIFFENERS



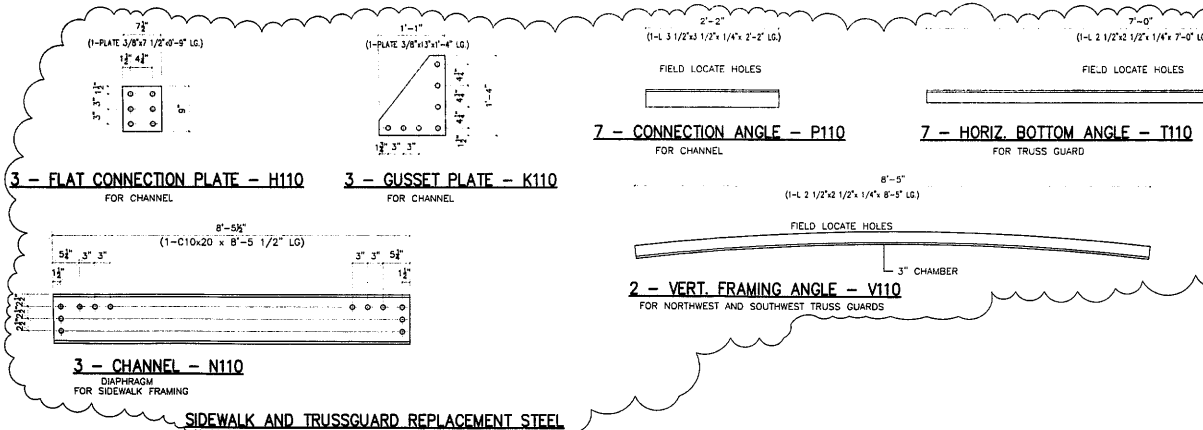
B - CONNECTION PLATE - X110
FOR EXISTING BEAMS S4, S6, S7 & S11

B - FILL PLATE - Z110
FOR EXISTING BEAMS S4, S6, S7 & S11

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	18	BAR 3/8"x2 1/4"	2'-4"	A110	
3.					
4.	2	L 5"x3 1/2"x3/8"	1'-8 3/4"	B110	
5.					
6.	3	PLATE 3/8"x7 1/2"	0'-9"	H110	
7.					
8.	3	PLATE 3/8"x13"	1'-4"	K110	
9.					
10.	3	C10x20	8'-5 1/2"	N110	
11.					
12.	7	L 3 1/2"x3 1/2"x1/4"	2'-2"	P110	
13.					
14.	7	L 2 1/2"x2 1/2"x1/4"	7'-0"	T110	
15.					
16.	2	L 2 1/2"x2 1/2"x1/4"	8'-5"	V110	3" CHAMBER
17.					
18.	8	PLATE 3/8"x9"	0'-11"	X110	
19.					
20.	8	PLATE 3/8"x8 1/8"	0'-9"	Z110	



REFERENCE FLOORBEAM #2 STRUT WEST LEAF
REFERENCE SHEET # 22U
WEST FACE



3 - FLAT CONNECTION PLATE - H110
FOR CHANNEL

3 - GUSSET PLATE - K110
FOR CHANNEL

3 - CHANNEL - N110
DIAPHRAGM
FOR SIDEWALK FRAMING

7 - CONNECTION ANGLE - P110
FOR CHANNEL

7 - HORIZ. BOTTOM ANGLE - T110
FOR TRUSS GUARD

2 - VERT. FRAMING ANGLE - V110
FOR NORTHWEST AND SOUTHWEST TRUSS GUARDS

FIELD VERIFY ALL

NOTE:
USE TEMPLATES (ORIGINAL PIECES)
FROM SITE TO VERIFY ALL HOLES
SHOWN AND NO SHOWN

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

SIDEWALK AND TRUSSGUARD REPLACEMENT STEEL

FIELD VERIFY ALL

LEGEND

- FIELD DRILL HOLES
- SHOP DRILL HOLES

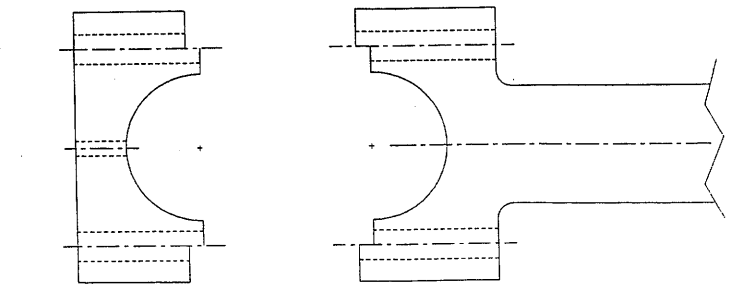
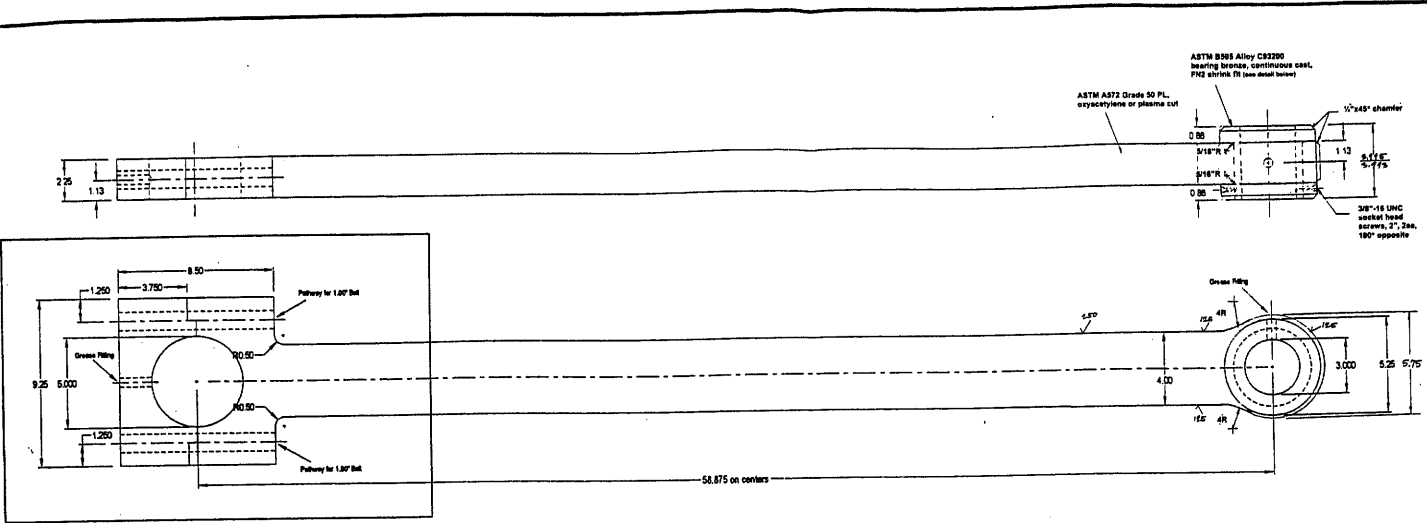
3/4" H.S. BOLTS WITH 13/16" HOLES USED FOR LACING BARS
7/8" H.S. BOLTS WITH 15/16" HOLES USED FOR ALL OTHER LOCATIONS

SCALE: 1"=1' U.N.O.

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. IF APPROVED, SIGN AND INITIALS AT THE BOTTOM LEFT FOR THE CONTRACTOR, THE DATE, AND THE PROJECT NUMBER. THIS IS THE RESPONSIBILITY OF THE SIGNER. UNLESS NOTED TO THE CONTRARY, THE FIELD DRAWING, WHEN A FIELD CONNECTION IS SHOWN, SHALL BE THE RESPONSIBILITY OF THE APPROVAL AUTHORITY.	PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" (NELDS = E70XX) MATL=ASTM A 36 WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	WELDS: 1/4" DATE: 4/22/03
NOI BY: CAH	REVISIONS: 5/03/03	DATE DRAWN BY: CAH
REVISIONS: 5/03/03	DATE: 4/22/03	CHECKED BY:
	DATE:	APPROVED:

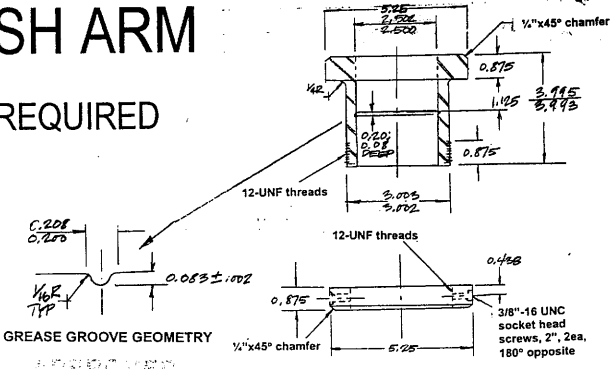


SHEET TITLE		REPAIR DETAILS		JOB NO:
STRUCTURE	BRIDGE REHABILITATION	CONTRACT # 60193	PROJECT # C-91-368-96	SHEET NO:
LOCATION	F.A.P. ROUTE 112 (LINKS) S3 RUBY STREET SECTION W-B-DR-4-1-I	WILL COUNTY, ILLINOIS		110
ENGINEER	PARSONS BRINCKERHOFF			
ARCHITECT	STRUCTURE # 089-9901			

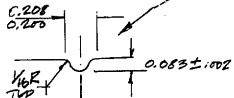


PUSH ARM

2 REQUIRED



GREASE GROOVE GEOMETRY



APPROVED
FOR CONSTRUCTION AND
INSTALLATION ONLY

APR 19 2003

W. J. Anderson
Engineer

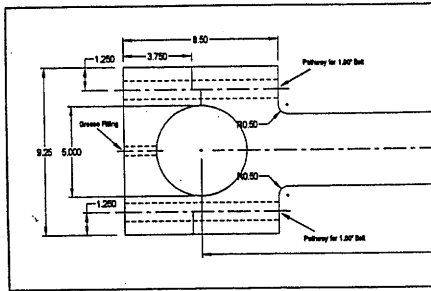
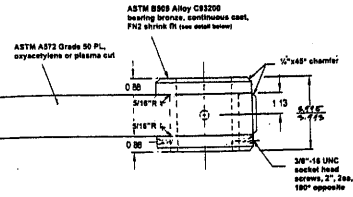
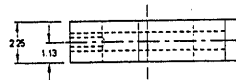
ANZELC WELDING & FABRICATING, INC.
823 MOORE AVE., JOLIET, IL 62450
PHONE: 815-725-9866 / FAX: 815-725-4443

DESIGNED BY: M.A.
REVIEWED:
DATE: 1/12/03

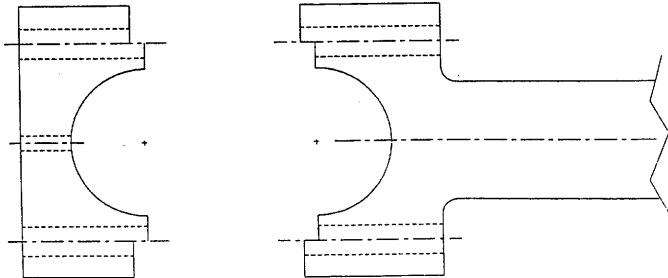
CONTRACT NO. 60193
RUBY ST. BRIDGE REHABILITATION
PAGE 1 OF 1

RUBY STREET BRIDGE REHABILITATION
WILL COUNTY
SECTION: M-B-DR-4-1-1
C-91-366-96
SN 095-9901
CONTRACT NO. 60193

TOLERANCE	
.0	.180"
.00	.090"
.000	.045"
UNLESS OTHERWISE SPECIFIED	



SEE BELOW DETAIL



DETAIL OFF PUSH ARM
--SEPARATED--

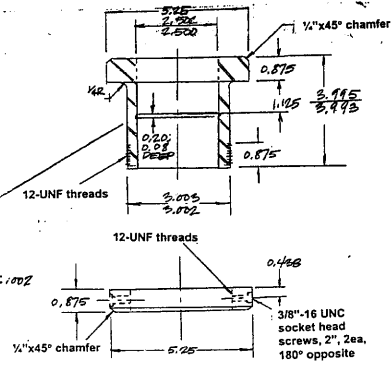
PUSH ARM

2 REQUIRED

GREASE GROOVE GEOMETRY
APPROVED
For Main Dimension and
Materials Only

APR 10 2003

Michael S. Anderson
Engineer of Bridges and Traffic Structures



BRONZE SHRINK-FIT BEARING

Note: 5" OD BEARINGS
TO BE REUSED

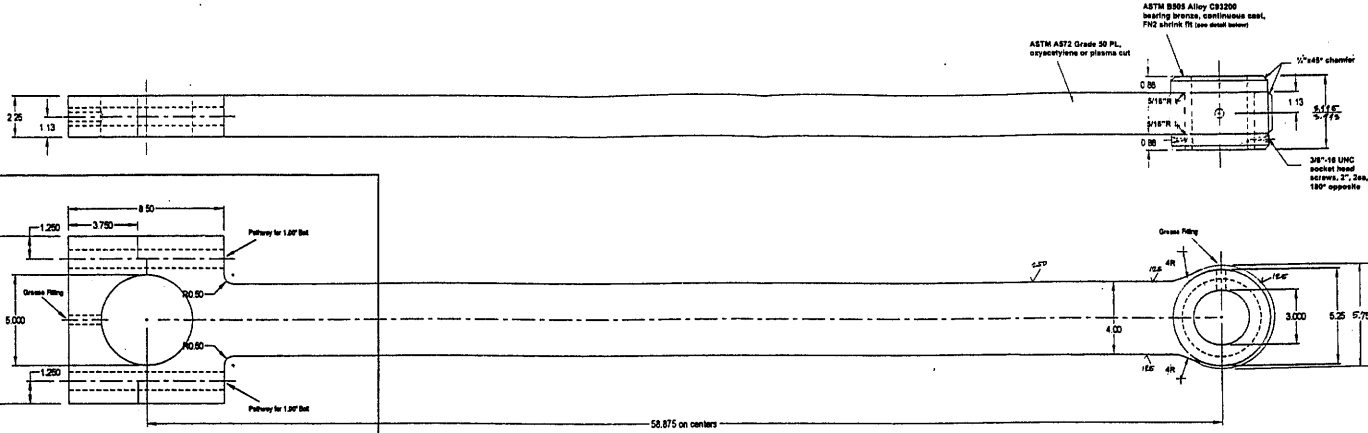
TOLERANCE	
.0	.180"
.00	.090"
.000	.045"
UNLESS OTHERWISE SPECIFIED	

ANZELEC WELDING & FABRICATING, INC.
1000 S. MAIN ST. SUITE 100
PHOENIX, AZ 85004
PHONE: 602-722-8668 / FAX: 602-722-8663

DATE 1/12/03
DRAWN BY: J.A.
REVISIONS:
APPROVED BY:

RUBY ST. BRIDGE REHABILITATION
SHEET
1 OF 1

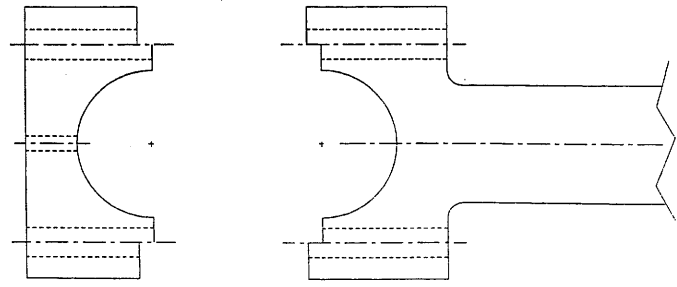
RUBY STREET BRIDGE REHABILITATION
WILL COUNTY
SECTION: M-B-DR-4-I-1
C-91-366-96
SN 099-9901
CONTRACT NO. 60193



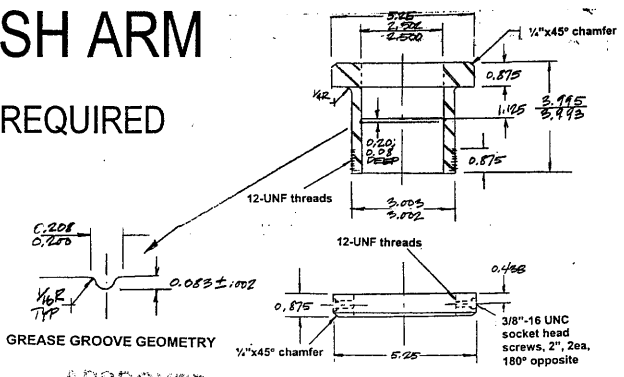
SEE BELOW DETAIL

PUSH ARM

2 REQUIRED



DETAIL OFF PUSH ARM
--SEPARATED--



GREASE GROOVE GEOMETRY

BRONZE SHRINK-FIT BEARING

Note: 5" OD BEARINGS
TO BE REUSED

TOLERANCE	
.0	.180"
.00	.090"
.000	.045"
UNLESS OTHERWISE SPECIFIED	

APPROVED
For Main Dimensions and
Materials Only

APR 10 2003

Walter E. ...
Engineer of Bridges and Traffic Structures

ANZELC WELDING & FABRICATING, INC.
822 MOORE AVE. / DULLET, N. 40428
PHONE : 817-725-3688 / FAX : 817-725-3688

DRAWN BY: J.A.
CHECKED BY:
DATE 1/12/03

RUBY ST. BRIDGE REHABILITATION
SHEET 1 OF 1

RUBY STREET BRIDGE REHABILITATION
WILL COUNTY
SECTION: M-B-DR-4-I-1
C-31-366-96
SN 099-9901
CONTRACT NO. 60193

STRUCTURE NO. 099-9901

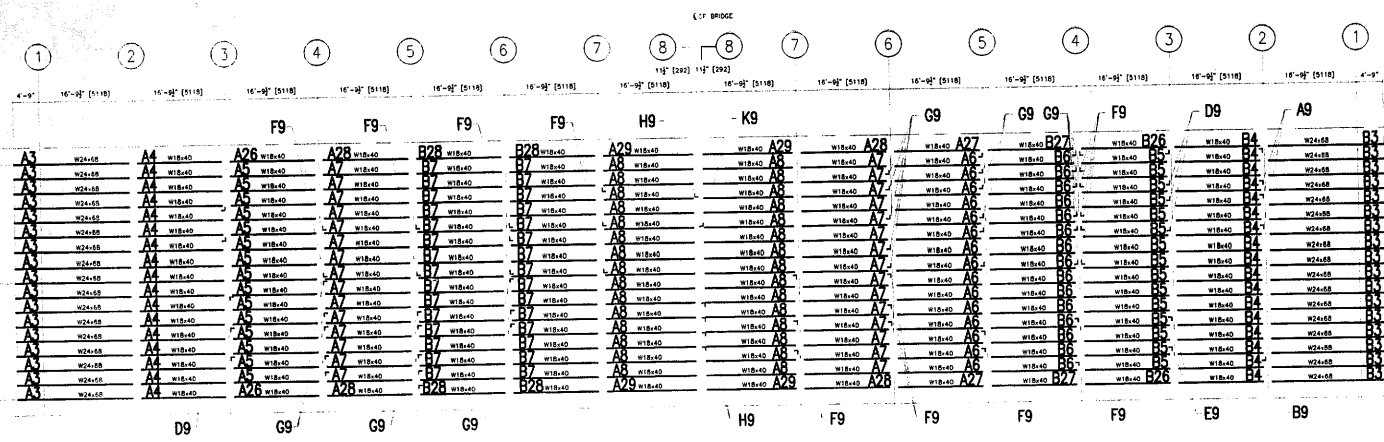
SECTION M-B-DR-4-I-1

ROUTE F.A.P 112

STATION

CONTRACT NO. 60193

WILL COUNTY



PLAN

WEST LEAF

EAST LEAF

FILE SET

FIELD VERIFY ALL

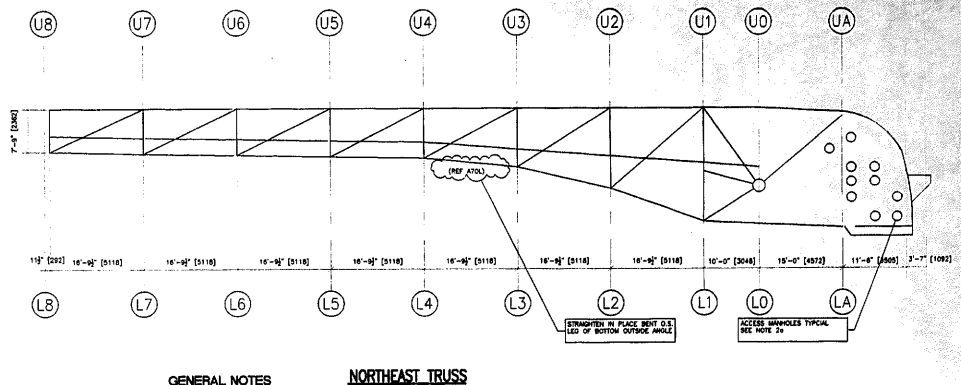
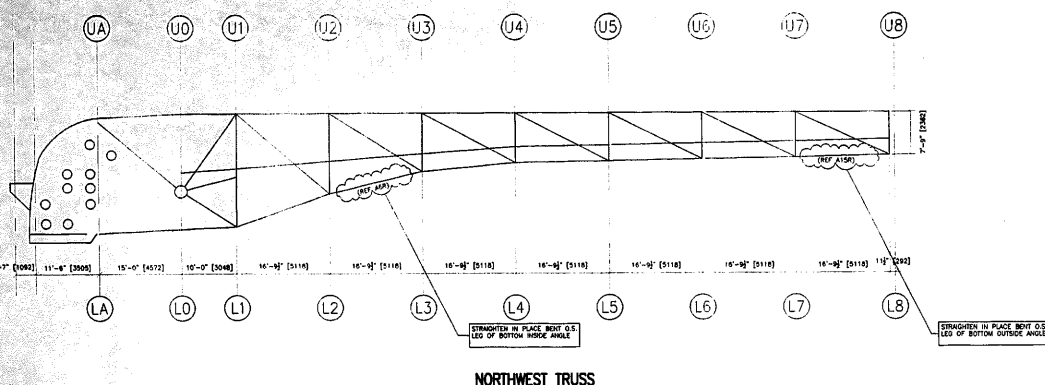
APPROVED
For Weld Dimensions and
Materials Only
JAN 8 0 2004
Ralph E. Anderson
Captain of Bridge & Traffic Division

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M148 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GRINDING SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZNR H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR M50C TOUNGNESS ZONE 2"

SCALE: 1"=10' REF. SHEET NO. 19

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY AND SIGNATURES SHALL BE IN THE PRESENCE OF THE PROJECT ENGINEER. THE PROJECT ENGINEER IS RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION ON THIS DRAWING. ANY CHANGES TO THIS DRAWING SHALL BE MADE BY THE PROJECT ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.	PAINT: INORGANIC ZINC RICH PRIMER WELD SIZE: 1/4" HOLES: 15/16" WELDS: E70XX MAT: ASTM A 36 U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES		D' CONSTRUCTION, INC. GENERAL CONTRACTOR 1489 SO. BROADWAY COAL CITY, ILLINOIS 60416	SHEET TITLE	ERECTOR PLAN	SHEET NO. E1
	NO. BY REVISIONS DATE DRAWN BY: GAH GAH ISSUED FOR APPROVAL 7/22/02 DATE: 5/28/02			STRUCTURE	BRIDGE REHABILITATION	
	GAH REVISED P.C. MARKS 8/16/02 CHECKED BY: GAH RE-ISSUED FOR APPROVAL 8/19/02 DATE:			LOCATION	CONTRACT # 60193 PROJECT # C-91-366-06 F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION W-B-10-4-1-1	
	APPROVED:			ENGINEER	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF STRUCTURE # 099-9901	



GENERAL NOTES

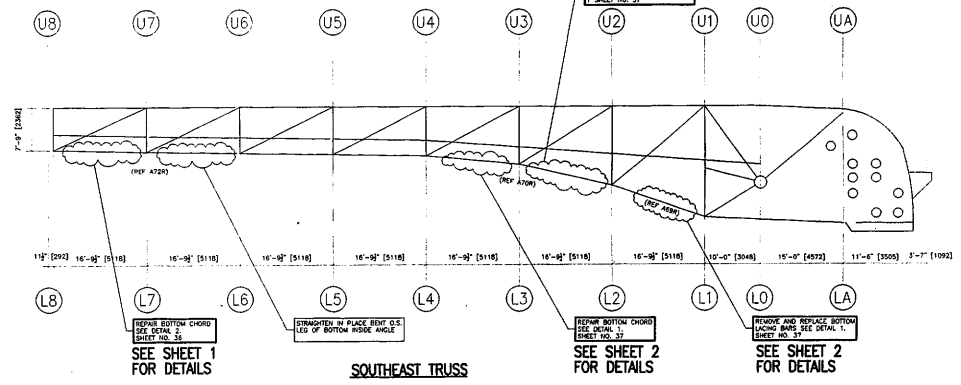
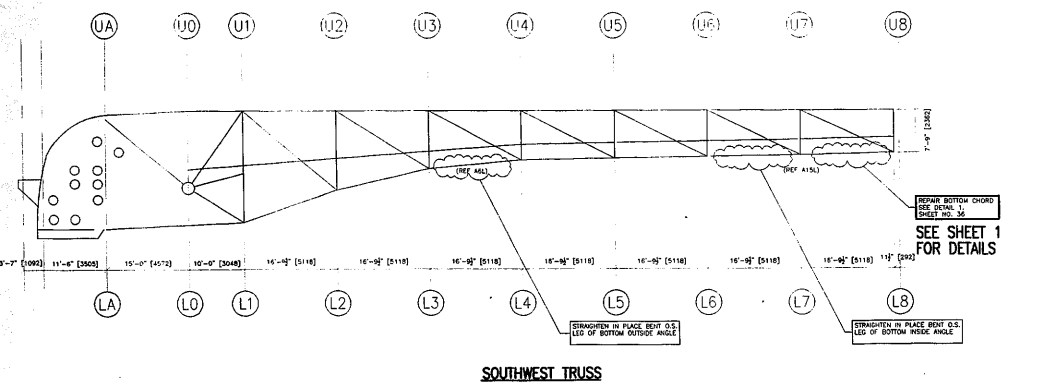
- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

FIELD VERIFY ALL

SEE SHEET 2 FOR DETAILS

REMOVE AND REPLACE BOTTOM ANGLE BACK TO BOLT HOLES (SEE DETAIL 1) (SHEET NO. 37)

APPROVED
For Main Dimensions and Materials Only
JAN 3 0 2004
Ralph E. Anderson
Engineer of Bridge & Traffic Structures



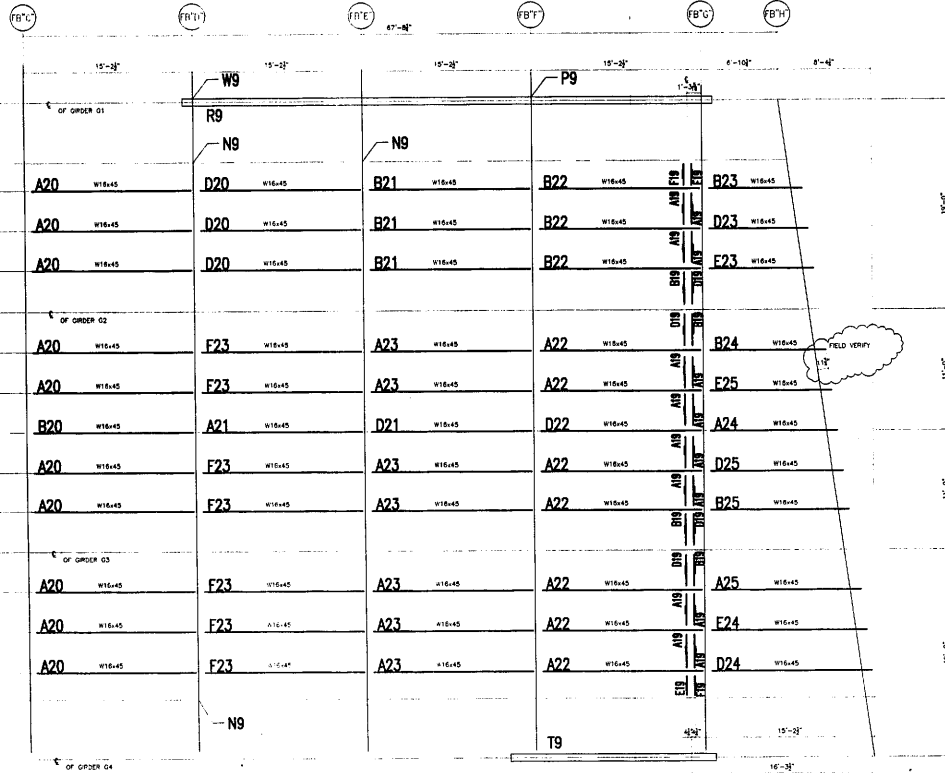
SECTIONAL NOTES
ALL MANHOLES SHALL BE DESIGNED TO ALLOW FOR INSPECTION OF THE WIRE SECTION BY THE ENGINEER. AFTER THE INSPECTION APPROPRIATE REPAIRS SHALL BE MADE. IF REQUIRED, BEFORE REVISION IS PRINTED REVISIONS SHALL BE TAKEN DURING CONFIRMED SPACE ACCESS.

SCALE: 1"=10' **REF. SHEET NO. 35**

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. I HEREBY GIVE MY UNDERSIGNED BY THE SIGNATURE OF THE DRAWING OR SEAL OF THE PROFESSIONAL ENGINEER OR ARCHITECT FOR THE DESIGN OF THE STRUCTURE AND FOR THE RESPONSIBILITY OF THE DESIGN. I HEREBY GIVE MY UNDERSIGNED BY THE SIGNATURE OF THE ARCHITECT OR ENGINEER FOR THE DESIGN OF THE STRUCTURE AND FOR THE RESPONSIBILITY OF THE DESIGN. I HEREBY GIVE MY UNDERSIGNED BY THE SIGNATURE OF THE ARCHITECT OR ENGINEER FOR THE DESIGN OF THE STRUCTURE AND FOR THE RESPONSIBILITY OF THE DESIGN. I HEREBY GIVE MY UNDERSIGNED BY THE SIGNATURE OF THE ARCHITECT OR ENGINEER FOR THE DESIGN OF THE STRUCTURE AND FOR THE RESPONSIBILITY OF THE DESIGN.	PAINT: INORGANIC ZINC RICH PRIMER WELD SIZE: 1/4" U.N. HOLES: 13/16" WELDS = E70XX MATL=ASTM A 36 WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
NO. BY REVISIONS DATE DRAWN BY: GAH GAH ADDED MARKS & NOTES 8/4/02 DATE: 5/28/02 GAH ISSUED FOR APPROVAL 1/29/02 CHECKED BY: GAH RE-ISSUED FOR APPROVAL 8/29/02 DATE: GAH FINAL ISSUE 1/19/04 APPROVED:	APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. I HEREBY GIVE MY UNDERSIGNED BY THE SIGNATURE OF THE DRAWING OR SEAL OF THE PROFESSIONAL ENGINEER OR ARCHITECT FOR THE DESIGN OF THE STRUCTURE AND FOR THE RESPONSIBILITY OF THE DESIGN. I HEREBY GIVE MY UNDERSIGNED BY THE SIGNATURE OF THE ARCHITECT OR ENGINEER FOR THE DESIGN OF THE STRUCTURE AND FOR THE RESPONSIBILITY OF THE DESIGN. I HEREBY GIVE MY UNDERSIGNED BY THE SIGNATURE OF THE ARCHITECT OR ENGINEER FOR THE DESIGN OF THE STRUCTURE AND FOR THE RESPONSIBILITY OF THE DESIGN. I HEREBY GIVE MY UNDERSIGNED BY THE SIGNATURE OF THE ARCHITECT OR ENGINEER FOR THE DESIGN OF THE STRUCTURE AND FOR THE RESPONSIBILITY OF THE DESIGN.

D' CONSTRUCTION INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE	ERECTION ELEVATIONS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO:
ENGINEER	F.A.P. ROUTE 112 ILLINOIS 53 RUBY STREET SECTION M-B-DR-4-I-1	E2
	WILL COUNTY, ILLINOIS	
	PARSONS BRINCKERHOFF	
	STRUCTURE # 099-9901	



EAST APPROACH SPAN

APPROVED
For Main Dimensions and
Materials Only
JAN 3 0 2004
Ralph E. Anderson
Engineer of Bridge & Traffic Structures

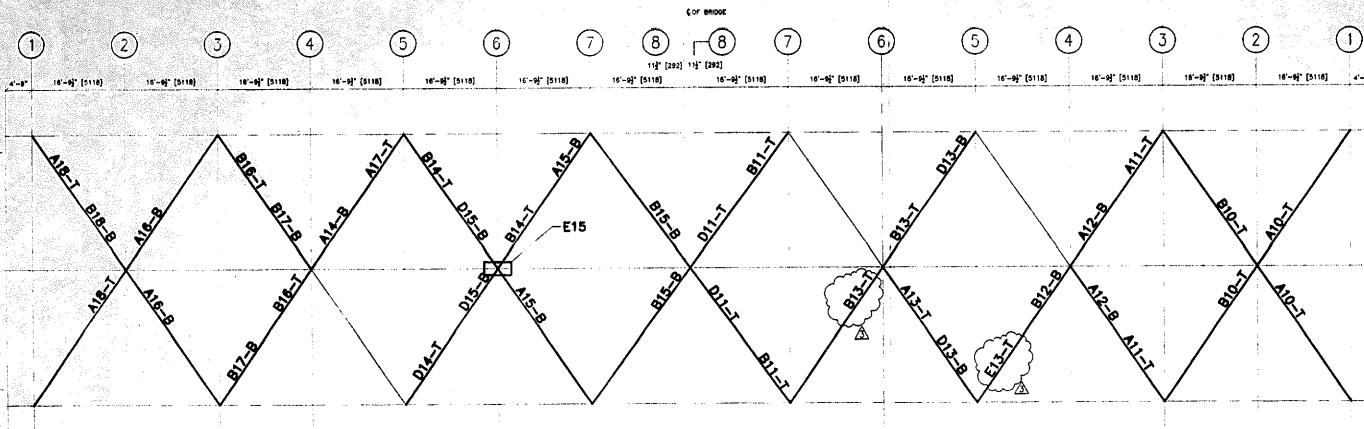
GENERAL NOTES

1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M148 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
6. CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
7. NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2

FIELD VERIFY ALL

SCALE: 3/16"=1' REF. SHEET NO. 15

<small>APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY FOR THE CORRECTNESS OF THE DIMENSIONS, MATERIALS, AND ALL OTHER INFORMATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS AND MATERIALS. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS AND MATERIALS. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS AND MATERIALS.</small>	<small>PAINT: INORGANIC ZINC RICH PRIMER WELD SIZE: 1/4"</small> <small>HOLES: 15/16" Ø WELDS = E70XX (MATERIAL) ASTM A 36</small> <small>WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES</small>	<p>D' CONSTRUCTION, INC. GENERAL CONTRACTOR 1488 SO. BROADWAY COAL CITY, ILLINOIS 60416</p>	<small>SHEET TITLE</small> ERECTION PLAN	<small>JOB NO:</small>
	<small>NOI BY</small> CAH <small>REVISIONS</small> <small>DATE</small> 6/12/02 <small>DRAWN BY</small> CAH <small>ISSUED FOR APPROVAL</small> 7/2/02 <small>CHECKED BY</small> : <small>RE-ISSUED FOR APPROVAL</small> 8/19/02 <small>DATE</small> :		<small>STRUCTURE</small> BRIDGE REHABILITATION <small>CONTRACT #</small> 60193 <small>PROJECT #</small> C-91-366-96	<small>SHEET NO:</small> E3
<small>LOCATION</small> F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-8-DR-4-I-1 <small>ENGINEER</small> WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF STRUCTURE # 039-9901				



PLAN

FIELD VERIFY ALL

APPROVED
For Made Drawings and
Materials Only
JAN 3 0 2004
Ralph E. Anderson
Engineer of Bridge & Traffic Structures

GENERAL NOTES

1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M148 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
6. CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK M.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

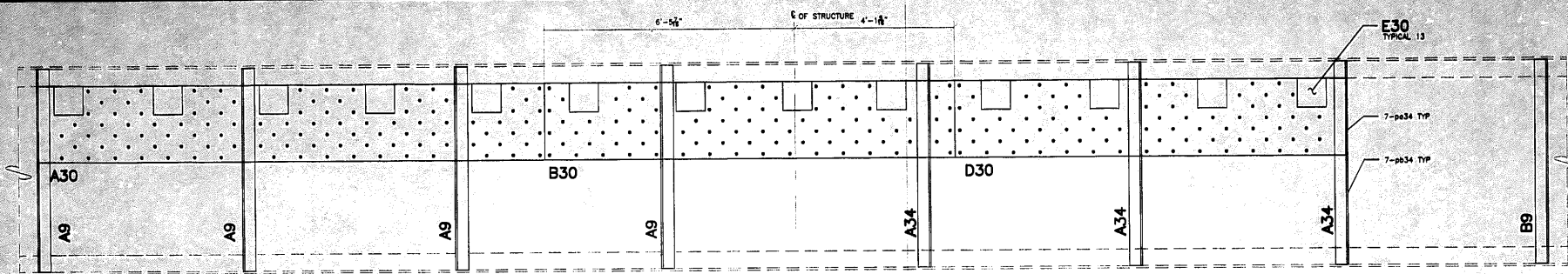
SCALE: 1"=10' REF. SHEET NO. 35

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. I HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL ENGINEER AND THAT THE INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE ACCURACY OF THIS DRAWING. UNLESS NOTED TO THE CONTRARY, ON THIS DRAWING, WHEN IT IS SUBMITTED FOR APPROVAL, I WILL BE ASSUMED TO HAVE THE INFORMATION NECESSARY TO MAKE THE APPROVAL OF THIS DRAWING. SUBMISSION OF THIS DRAWING FOR APPROVAL SHALL BE CONSIDERED AS A CONTRACT DOCUMENT.		PAINT: INORGANIC ZINC RICH PRIMER WELD SIZE: 1/4" HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 } U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES			
NO.	BY	REVISIONS	DATE	DRAWN BY:	GAH
1	GAH	ISSUED FOR APPROVAL	7/27/02	DATE:	5/28/02
2	GAH	RE-ISSUED FOR APPROVAL	8/19/02	CHECKED BY:	
3	GAH	REVISED PER COMMENTS	8/19/02	DATE:	
		APPROVED:			



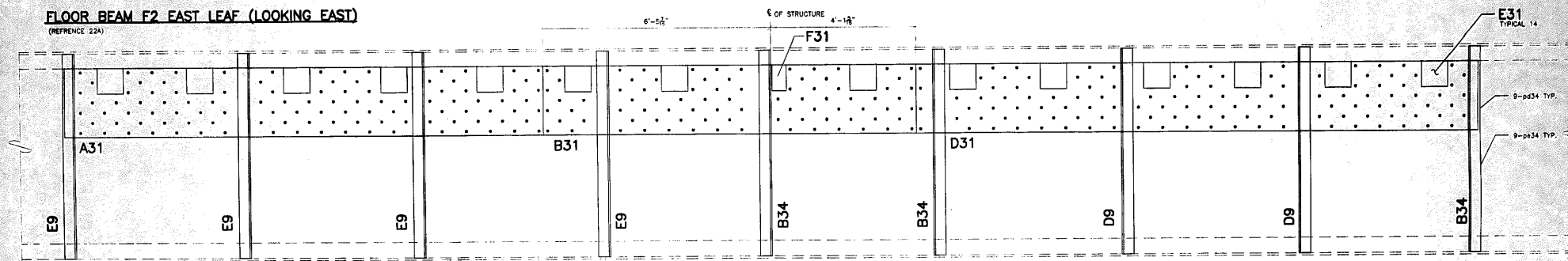
D'D CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE	ERECTION PLAN		JOB NO:
STRUCTURE	BRIDGE REHABILITATION		SHEET NO:
LOCATION	F.A.P. ROUTE 112 (LINDS 53 RUBY STREET) SECTION M-B-08-4-1-1		E4
ENGINEER	PARSONS BRINCKERHOFF STRUCTURE # 099-9901		



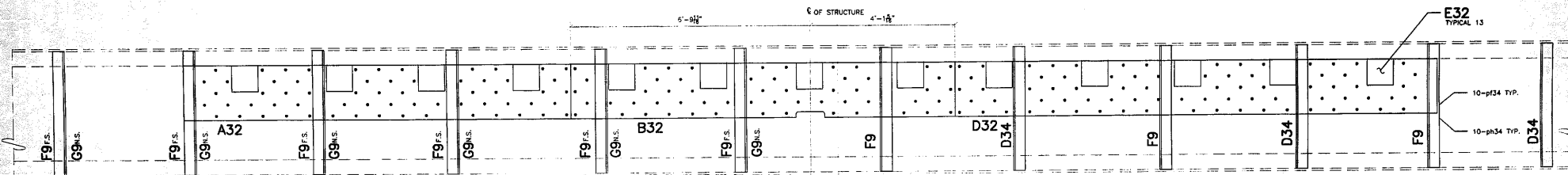
FLOOR BEAM F2 EAST LEAF (LOOKING EAST)

(REFERENCE 22A)



FLOOR BEAM F3 EAST LEAF (LOOKING EAST)

(REFERENCE 22B)



FLOOR BEAM F4 EAST LEAF (LOOKING EAST)

(REFERENCE 22C)

GENERAL NOTES

1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPEC.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8\"/>
- 4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- 5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- 6. CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BLASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINC H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- 7. NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2
- 8. USE EXISTING HOLES TO FIELD DRILL HOLES IN PLATES WHERE HOLES ARE NOT SHOWN HERE.

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY FOR THE CONTRACT DOCUMENTS, SPECIFICATIONS AND THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUALITY OF THE FABRICATION AND THE INSTALLATION OF THE STRUCTURE. THIS IS THE RESPONSIBILITY OF THE BUILDER. NOTES LISTED IN THE COMMENTS OF THIS DRAWING, WHICH IF A CONTRACTOR HAS ANY QUESTIONS, SHALL BE REFERRED TO THE ARCHITECT'S OFFICE. REVISIONS WILL BE CONSIDERED AS CONTRACT CHANGES. SUBSEQUENT CHANGES TO FABRICATION SHALL BE MADE ON THESE CHANGES. THE CONTRACTOR SHALL NOT ACCEPT ANY FABRICATION UNLESS IT IS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUALITY OF THE FABRICATION AND THE INSTALLATION OF THE STRUCTURE. THIS IS THE RESPONSIBILITY OF THE BUILDER.		PAINT: INORGANIC ZINC RICH PRIMER WELD SIZE: 1/4" HOLES: 15/16" IN WEBS - E70XX MAT-ASTM A 36 WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
NO. BY REVISIONS DATE DRAWN BY: GAH GAH ISSUED FOR APPROVAL 11/25/00 DATE: 11/22/02 GAH REVISED PER COMMENTS 12/27/00 CHECKED BY:	U.N. DATE: _____ APPROVED: _____	



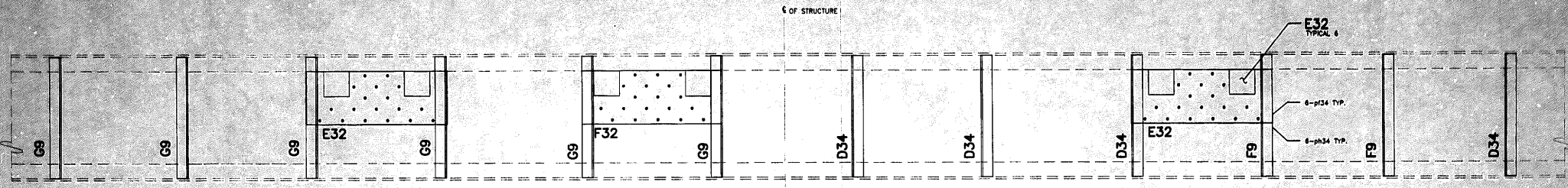
D'D CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1489 SO. BROADWAY
 COAL CITY, ILLINOIS 60416

SHEET TITLE	ERECTION PLAN		JOB NO:
STRUCTURE	BRIDGE REHABILITATION		SHEET NO:
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96 F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-OR-4-1-1		E5
ENGINEER	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF		
	STRUCTURE # 099-9901		

SCALE: 3/4"=1'

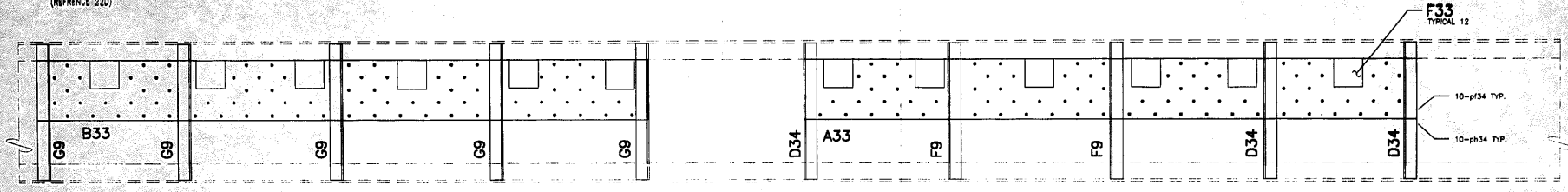
APPROVED
 For Plans, Specifications and Materials Only
 JAN 3 0 2004
Ralph E. Anderson
 Engineer of Bridge & Traffic Structures

FIELD VERIFY ALL



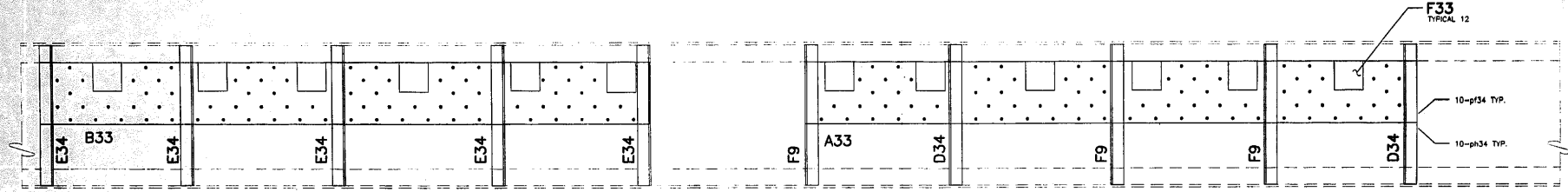
FLOOR BEAM F5 EAST LEAF (LOOKING EAST)
(REFERENCE 22D)

C OF STRUCTURE



FLOOR BEAM F6 EAST LEAF (LOOKING EAST)
(REFERENCE 22E)

C OF STRUCTURE



FLOOR BEAM F7 EAST LEAF (LOOKING EAST)
(REFERENCE 22E)

GENERAL NOTES

1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS 1/4" DIA. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 1 1/2" UNLESS NOTED.
4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GRIND SMOOTH.
6. CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BLASTED TO SPEC SSPC-SP10 TO PROFILE OF .1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINC H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"
8. USE EXISTING HOLES TO FIELD DRILL HOLES IN PLATES WHERE HOLES ARE NOT SHOWN HERE.

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. IF ANY CHANGES ARE REQUIRED, THEY MUST BE INDICATED BY THE ENGINEER'S SIGNATURE AND DATE. THE ENGINEER'S SIGNATURE AND DATE SHALL BE THE RESPONSIBILITY OF THE ENGINEER. UNLESS NOTED TO THE CONTRARY, ON THIS DRAWING, WHEN IT IS REVISIONS TO THE DRAWING ARE MADE, THE APPROVAL OF THE ENGINEER IS REQUIRED. ANY CHANGES TO THE DRAWING SHALL BE THE RESPONSIBILITY OF THE ENGINEER. THE STRUCTURAL STEEL DETAILER SHALL NOT ACCEPT ANY OF THE STRUCTURAL STEEL DETAILING UNLESS IT IS LABELED TO THE PRODUCTION OF FABRICATION DRAWINGS.		PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" Ø WELDS = E70XX MAT=ASTM A 36 } U.I.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	WELD SIZE: 1/4" DATE: 11/22/02 DRAWN BY: GAH ISSUED FOR APPROVAL 11/22/02 REVISED PER COMMENTS 12/22/02 CHECKED BY: DATE: APPROVED:
--	--	--	--



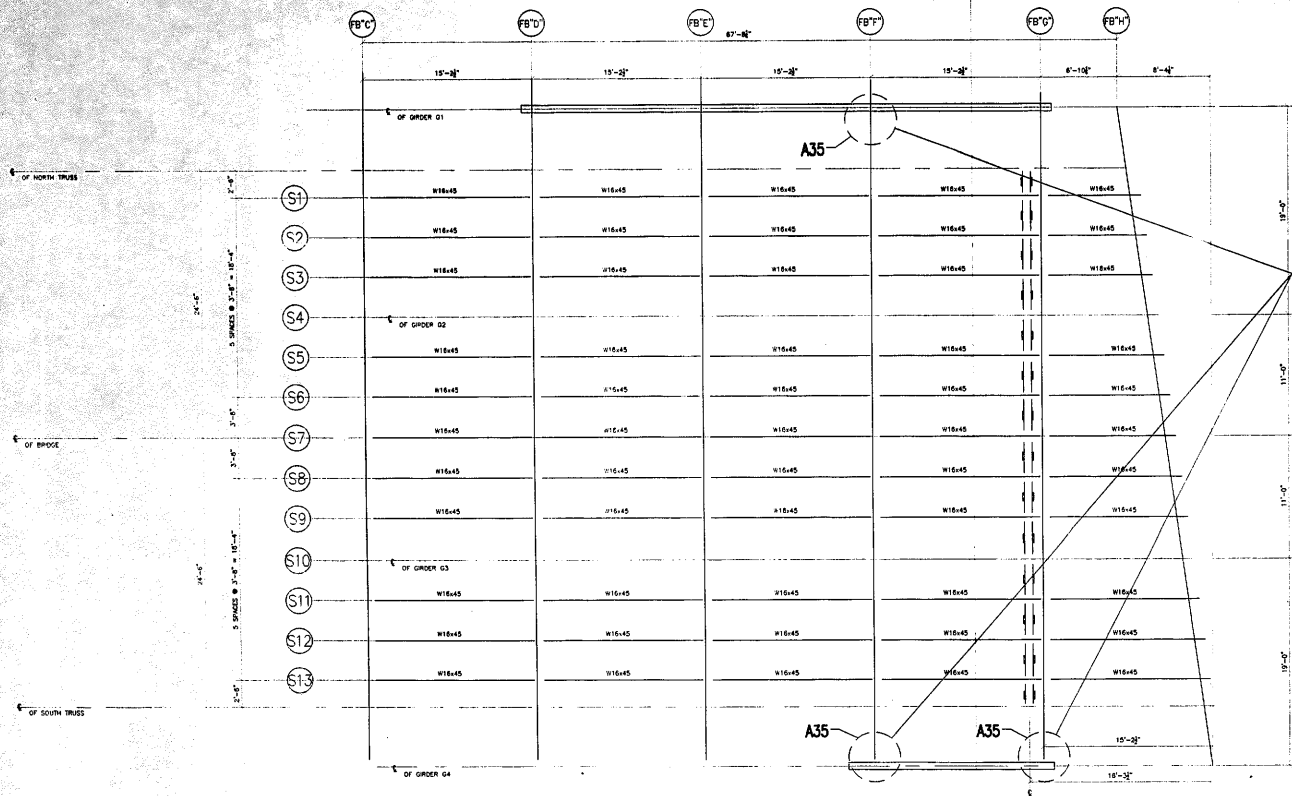
D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE	ERECTION PLAN	JOB NO.
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO. E6
ENGINEER	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-8-DR-4-1-1	
	WILL COUNTY, ILLINOIS	
	PARSONS BRINCKERHOFF	
	STRUCTURE # 099-9901	

SCALE: 3/4"=1'

APPROVED
For Main Drawings and Materials Only
JAN 3 0 2004
Ralph E. Anderson
Engineer of Bridge & Traffic Structures

FIELD VERIFY ALL



AT THREE LOCATIONS, REMOVE AND REPLACE IN KIND THE TWO VERTICAL STIFFENER ANGLES ON EACH SIDE OF THE WEB (FILL PLATES TO REMAIN). ALSO, REMOVE AND REPLACE IN KIND THREE TRIANGULAR GUSSET PLATES WITH ATTACHED ANGLES AT THE SAME THREE LOCATIONS.

NOTE: ALL HOLES TO MATCH EXISTING.

APPROVED
For Metal Fabrication and
Materials Only
JAN 30 2004
Ralph E. Adams
Engineer of Bridge & Traffic Structures

GENERAL NOTES

1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
6. CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
7. NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2

FIELD VERIFY ALL

FAST APPROACH SPAN

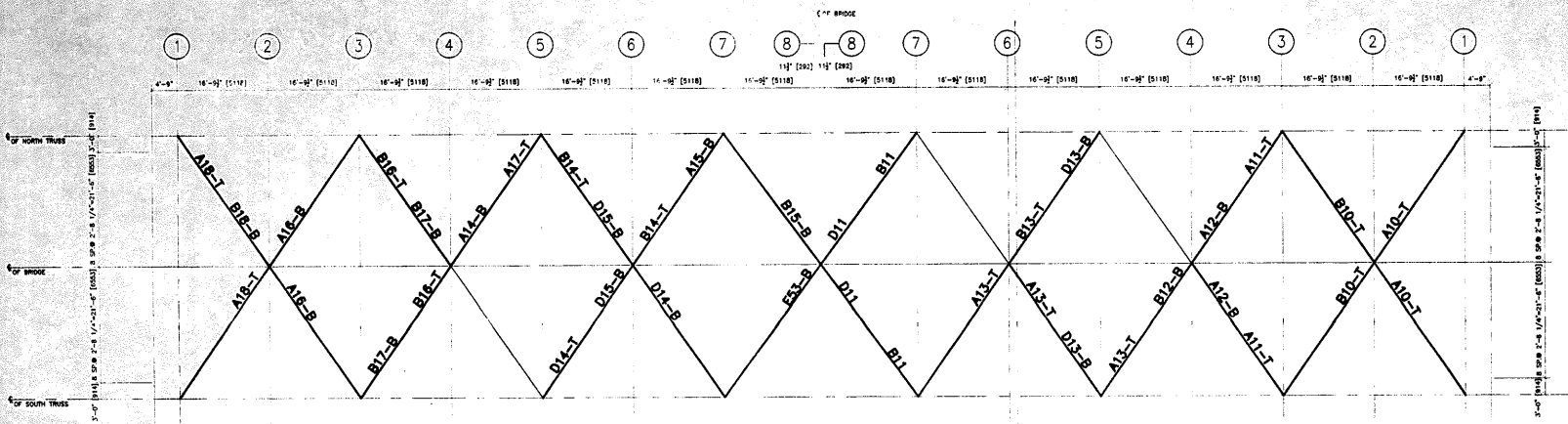
SCALE: 3/16"=1'

<small>APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY & IN CONFORMANCE WITH THE SPECIFICATIONS AND REQUIREMENTS OF THE BIDDING DOCUMENTS FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED IN THIS DRAWING. THIS IS THE RESPONSIBILITY OF THE BIDDING CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED IN THIS DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED IN THIS DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED IN THIS DRAWING.</small>		PAINT: INORGANIC ZINC RICH PRIMER WELD SIZE: 1/4" HOLES: 15/16" WELDS = E70XXI MATL=ASTM A 36 U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	
NOI BY	REVISIONS	DATE	DRAWN BY: GAH
GAH	ISSUED FOR APPROVAL	2/24/03	DATE: 2/24/03
			CHECKED BY:
			DATE:
			APPROVED:



D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1458 S.D. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE	ERECTOR PLAN EAST APPROACH REPAIRS	JOB NO:	
STRUCTURE	BRIDGE REHABILITATION CONTRACT # 80193 PROJECT # C-91-366-96	SHEET NO:	
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-8-OR-4-L-1		
ENGINEER	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF STRUCTURE # 099-9901		E7



FIELD VERIFY ALL

APPROVED
For Material Disposition and
Materials Only
JAN 30 2004
Ralph E. Anderson
Engineer of Bridge & Traffic Structures

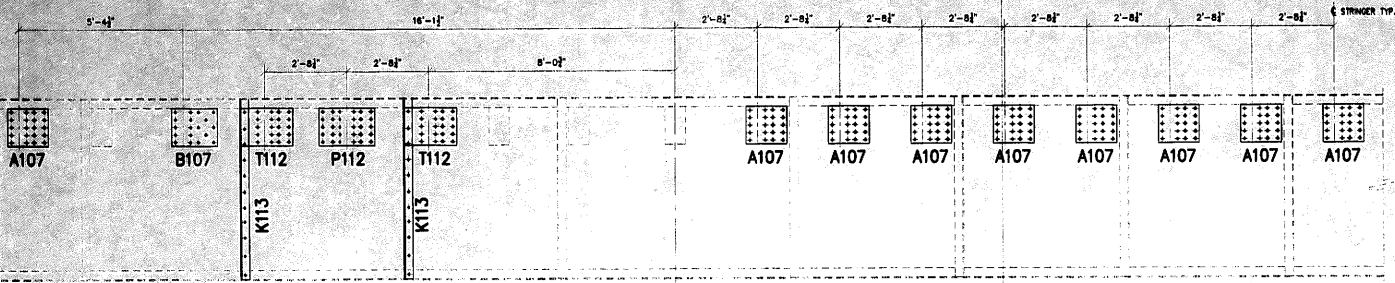
REF. SHEET NO. 35

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. CHECKED FOR CONFORMANCE WITH THE PROJECT AND THE DESIGN SPECIFICATIONS. ALL WORK SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER. UNLESS NOTED TO THE CONTRARY ON THE DRAWING, WORK IS TO BE DONE IN ACCORDANCE WITH THE APPROVAL OF THE ENGINEER. THE ENGINEER'S APPROVAL DOES NOT GUARANTEE THE ACCURACY OF THE INFORMATION PROVIDED HEREON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL DIMENSIONS AND CONDITIONS SHOWN ON THIS DRAWING.		PAINT: GRAY, MUNSELL NO. 5B 7/1 HOLES: 13/16" Ø WELDS = E70XX [MATT=ASTM A 36] U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES		
NO.	BY	REVISIONS	DATE	DRAWN BY: GAH
1				DATE: 5/28/02
2				CHECKED BY:
3				DATE:
4				APPROVED:

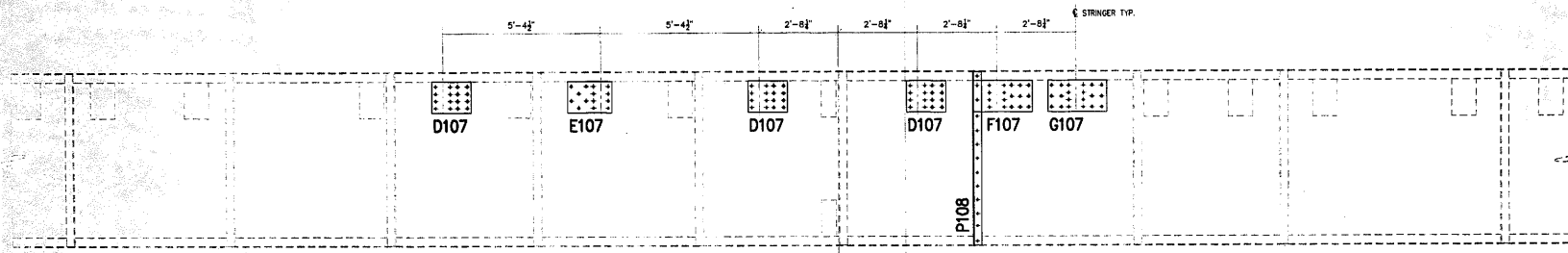


D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

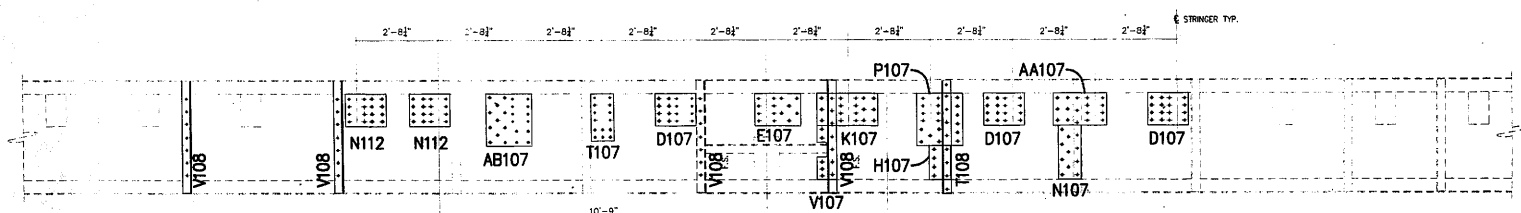
SHEET TITLE	ERECTION PLAN	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	
	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO:
LOCATION	F.A.P. ROUTE 112 (LINKS 53 RUBY STREET) SECTION M-B-10-4-1-1	E10
ENGINEER	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF STRUCTURE # 099-5901	



REFERENCE FLOORBEAM F2 WEST LEAF
 REFERENCE SHEET # 22L
 (LOOKING WEST)



REFERENCE FLOORBEAM F3 WEST LEAF
 REFERENCE SHEET # 22M
 (LOOKING WEST)



REFERENCE FLOORBEAM F4 WEST LEAF
 REFERENCE SHEET # 22N
 (LOOKING WEST)

GENERAL NOTES

1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 805 OF THE STANDARD SPECS.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS 1/4 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
6. CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BLASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

APPROVED
 For Metal Fabrication and
 Millwork Only
 JAN 30 2004
Ralph E. Anderson
 Engineer of Bridge & Traffic Structures

SCALE: 1/2"=1' U.N.O.

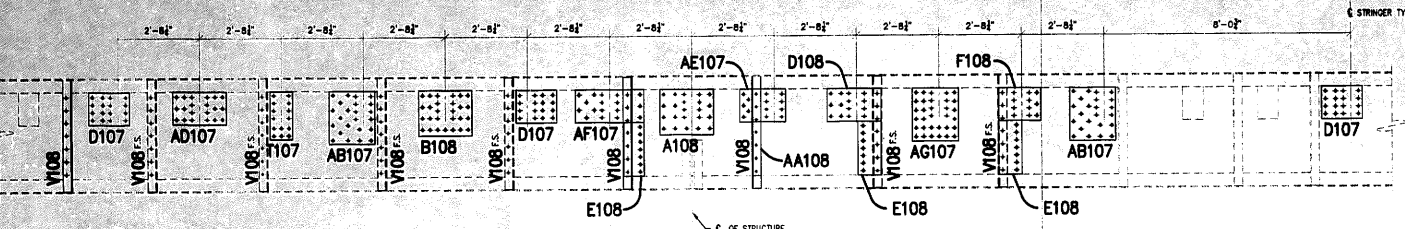
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. I HEREBY CERTIFY THAT I HAVE REVIEWED THE DRAWING AND THE INFORMATION CONTAINED THEREIN AND I AM A REGISTERED PROFESSIONAL ENGINEER FOR THE STATE OF ILLINOIS. I AM NOT PROVIDING ANY PROFESSIONAL OPINION OR SERVICE IN CONNECTION WITH THIS DRAWING UNLESS I AM SPECIFICALLY REQUESTED TO DO SO BY THE CLIENT AND I AM NOT PROVIDING ANY PROFESSIONAL OPINION OR SERVICE IN CONNECTION WITH THIS DRAWING UNLESS I AM SPECIFICALLY REQUESTED TO DO SO BY THE CLIENT AND I AM NOT PROVIDING ANY PROFESSIONAL OPINION OR SERVICE IN CONNECTION WITH THIS DRAWING UNLESS I AM SPECIFICALLY REQUESTED TO DO SO BY THE CLIENT.	PAINT: INORGANIC ZINC RICH PRIMER	WELDS: 1/4"	
	HOLES: 15/16"	WELDS = E70XX	MATL=ASTM A 36
	WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES		
	NOI BY	REVISIONS	DATE
	GAH	REVISED PER COMMENTS	5/21/03
GAH	ADDED PLATES	7/21/03	
GAH	FINAL ISSUE	11/19/04	
		APPROVED:	

D' CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1499 SO. BROADWAY
 COAL CITY, ILLINOIS 60416

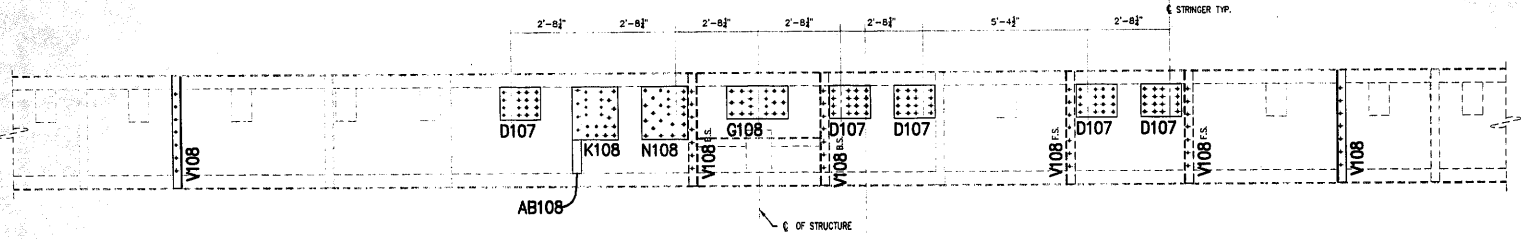
SHEET TITLE	ERECTON ELEVATIONS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	SHEET NO:
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96 F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-4-1-1	E100
ENGINEER	WILL COUNTY, ILLINOIS	
ARCHITECT	PARSONS BRINCKERHOFF STRUCTURE # 099-9901	

GENERAL NOTES

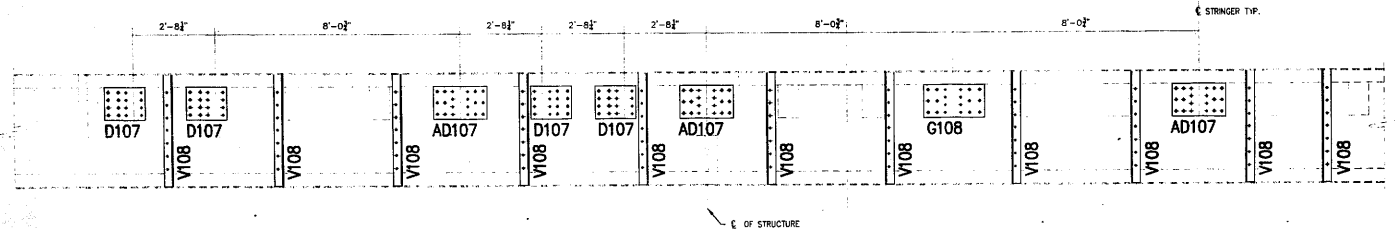
1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 608 OF THE STANDARD SPECS.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS W104 GALV 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 1/8" UNLESS NOTED.
4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
6. CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINC H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"



REFERENCE FLOORBEAM F5 WEST LEAF
 REFERENCE SHEET # 22P
 (LOOKING WEST)



REFERENCE FLOORBEAM F6 WEST LEAF
 REFERENCE SHEET # 22Q
 (LOOKING WEST)



REFERENCE FLOORBEAM F7 WEST LEAF
 REFERENCE SHEET # 22R
 (LOOKING WEST)

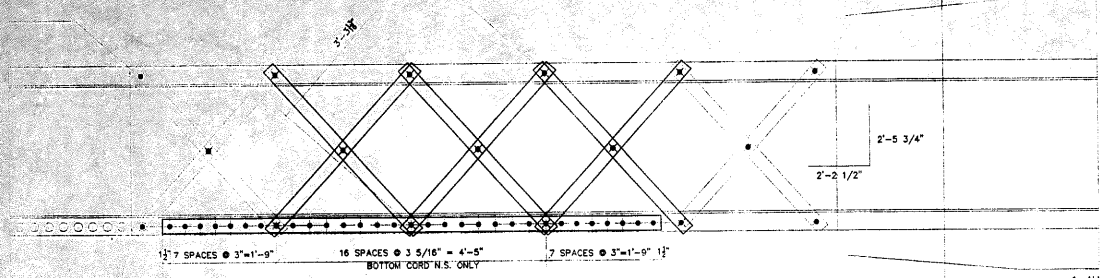
APPROVED
 For Main Dimensions and Materials Only
 JAN 30 2004
Ralph E. Anderson
 Engineer of Bridge & Traffic Structures

SCALE: 1/2"=1' U.N.O.

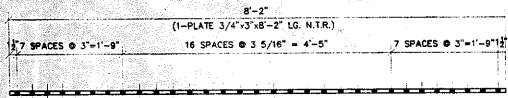
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. IN CONNECTION WITH THE REVIEW OF THIS DRAWING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION AND DATA PROVIDED TO THE CONTRACTOR BY THE ARCHITECT AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION AND DATA PROVIDED TO THE ARCHITECT BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION AND DATA PROVIDED TO THE ARCHITECT BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION AND DATA PROVIDED TO THE ARCHITECT BY THE CONTRACTOR.	PAINT: INORGANIC ZINC RICH PRIMER	WELDS: 1/4"		
	HILES: 15/16#	WELDS = E70XX	MATL=ASTM A 36	U.N.
	WIRE FOR SHIPMENT ALL LOOSE CUP ANGLES			
	NO. BY	REVISIONS	DATE	DRAWN BY: GAH
	GAH	REVISED PER COMMENTS	5/9/03	DATE: 4/21/03
	GAH	FINAL ISSUE	1/19/04	CHECKED BY:
			DATE:	
			APPROVED:	



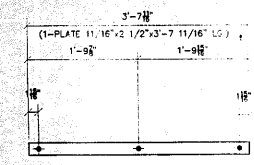
SHEET TITLE	ERECTION ELEVATIONS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO:
ENGINEER	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DK-4-1-1	E101
ARCHITECT	WILL COUNTY, ILLINOIS	
	PARSONS BRINCKERHOFF	
	STRUCTURE # 099-9901	



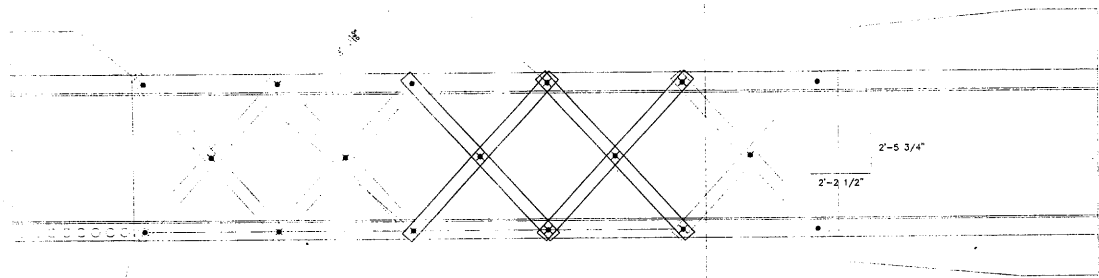
REF. DETAIL 1 ON SHEET #36
(REF. A15L)



ONE - SPLICE PLATE - A1



10 - LACING BAR - B1



REF. DETAIL 2 ON SHEET #36
(REF. A72R OR A70R)

GENERAL NOTES

1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M148 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GRIND SMOOTH.
6. CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER.
7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

HOLES 15/16" VERIFY IN FIELD

FIELD VERIFY ALL

APPROVED
For Main Dimensions and Materials Only
JAN 3 0 2004
Ralph E. Anderson
Engineer of Bridge & Traffic Structures

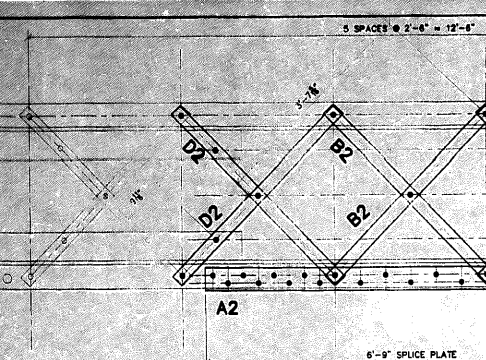
NO.	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.					
3.					
4.	ONE	PLATE 3/4"x3"	8'-2"	A1	NTR
5.					
6.					
7.					
8.	10	PLATE 1 1/2"x2 1/2"	3'-7 11/16"	B1	
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ERECTION DWG. E2 SCALE: 1"=1'

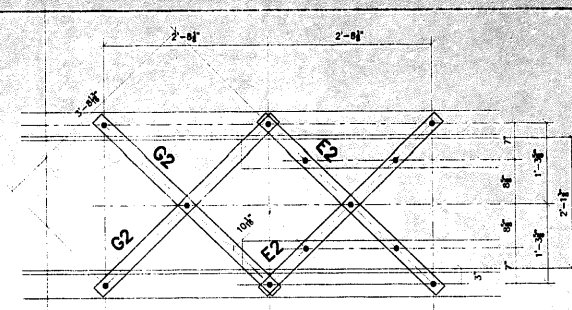
APPROVAL/REVIEW AUTHORITY: PLEASE PRINT THE DRAWING CAREFULLY FOR THE CONTRACTOR'S USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF THE STRUCTURE. ANY CHANGES TO THE DRAWING SHALL BE MADE BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF THE STRUCTURE. ANY CHANGES TO THE DRAWING SHALL BE MADE BY THE ENGINEER OF RECORD.	PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 } U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	WELDS: 1/4"
NO. BY REVISIONS DATE DRAWN BY: GAH	ISSUED FOR APPROVAL 7/23/02 DATE: 5/09/02	
GAH RE-ISSUED FOR APPROVAL 8/19/02 CHECKED BY: DATE:		
APPROVED:		



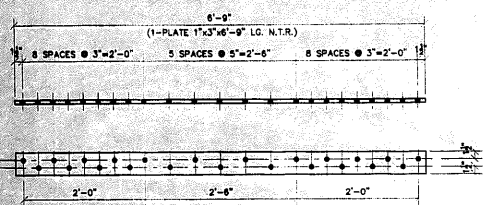
SHEET TITLE	REPAIR DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO:
ENGINEER	F.A.P. ROUTE 112 (ILLINOIS 51 RUBY STREET) SECTION W-B-06-4-I-1	1
ARCHITECT	WILL COUNTY, ILLINOIS	
	PARSONS BRINCKERHOFF	
	STRUCTURE # 099-9901	



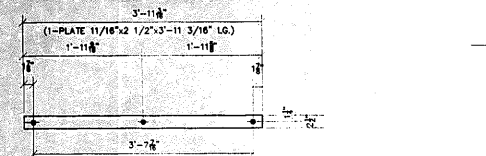
REF. DETAIL 1 ON SHEET #37 SECTION A-A
(REF. PIECE A70R)



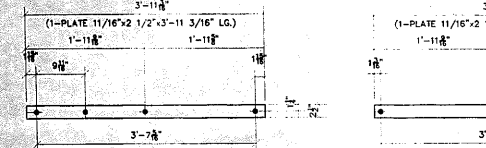
REF. DETAIL 1 ON SHEET #37 SECTION A-A
(REF. PIECE A69R)
17'-5 1/2"



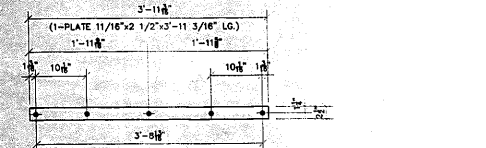
ONE - SPLICE PLATE - A2



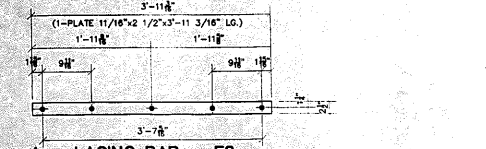
4 - LACING BAR - B2



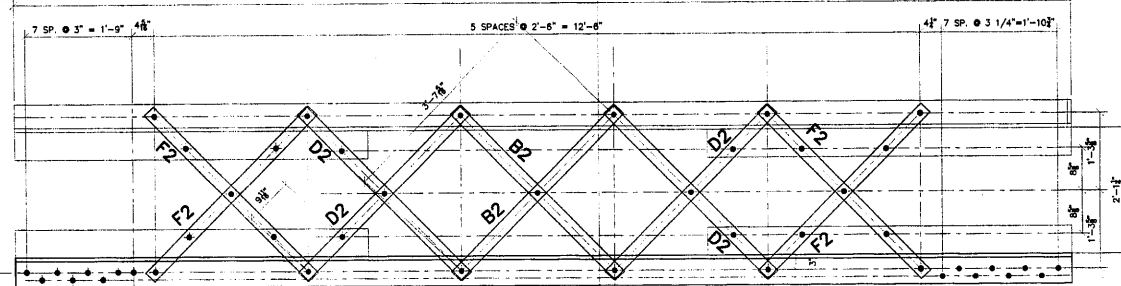
8 - LACING BAR - D2



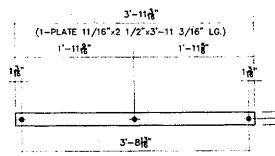
2 - LACING BAR - E2



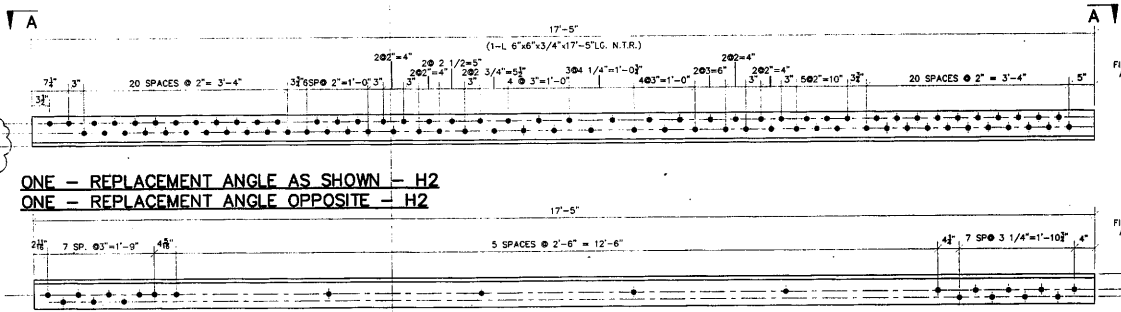
4 - LACING BAR - F2



REF. DETAIL 1 ON SHEET #37 & SECTION A-A
(REF. PIECE A70R)



2 - LACING BAR - G2



ONE - REPLACEMENT ANGLE AS SHOWN - H2
ONE - REPLACEMENT ANGLE OPPOSITE - H2

SECTION A-A

NO	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.					
3.					
4.	ONE	PLATE 1"x4 1/2"	6'-9"	A2	NTR
5.					
6.					
7.					
8.	4	PLATE 11/16"x2 1/2"	3'-11 3/16"	B2	
9.					
10.					
11.					
12.	8	PLATE 11/16"x2 1/2"	3'-11 3/16"	D2	
13.					
14.					
15.					
16.	2	PLATE 11/16"x2 1/2"	3'-11 3/16"	E2	
17.					
18.					
19.					
20.	4	PLATE 11/16"x2 1/2"	3'-11 3/16"	F2	
21.					
22.					
23.					
24.	2	PLATE 11/16"x2 1/2"	3'-11 3/16"	G2	
25.					
26.					
27.					
28.	2	L 6"x6"x3/4"	17'-5"	H2	NTR
29.					
30.					

GENERAL NOTES

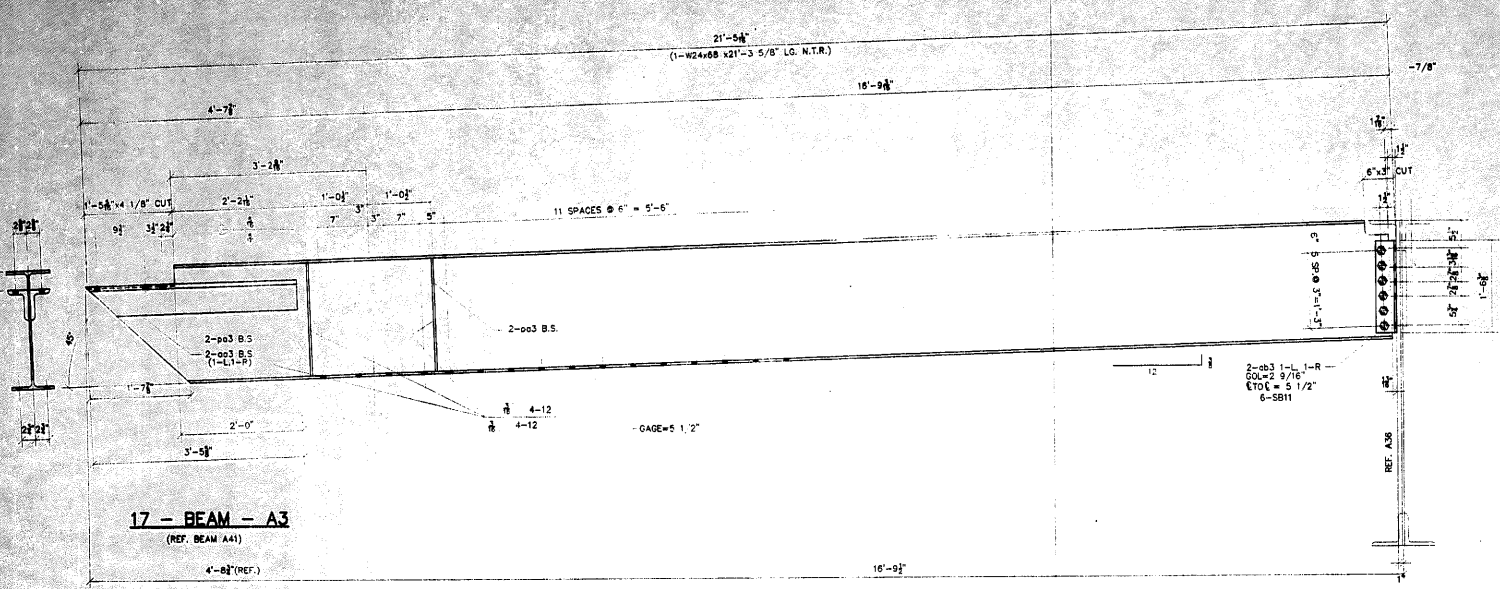
- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 1/8" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE ROUND SMOOTH.
- CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK N.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

APPROVED
For Metal Fabrication and Materials Only
JAN 30 2004
Ralph E. Anderson
Manager of Bridge & Traffic Division

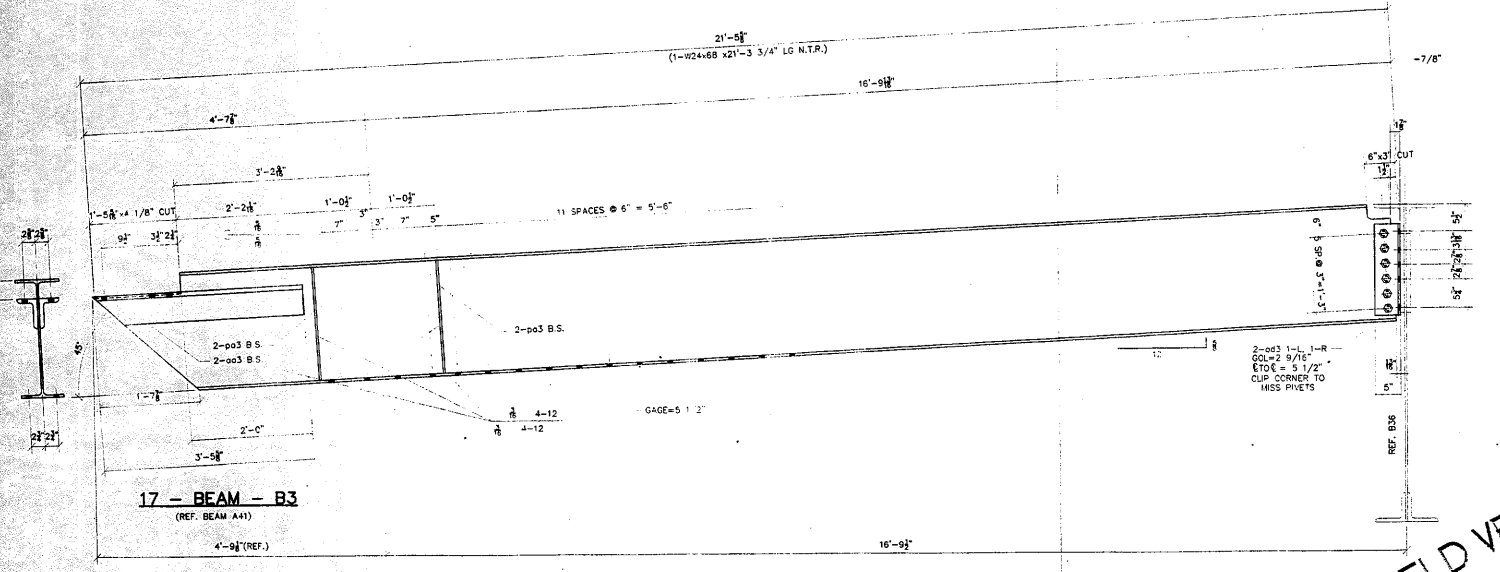
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY FOR CONFORMANCE WITH THE DESIGN AND SPECIFICATIONS. APPROVED FOR THE DESIGNER AND THE CONTRACTOR. DESIGNER: [Signature] DATE: 6/04/02 CONTRACTOR: [Signature] DATE: 6/04/02	PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX (MATL=ASTM A 36) U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
NO. BY: REVISIONS: DATE: 6/04/02 GAI ISSUED FOR APPROVAL GAI RE-ISSUED FOR APPROVAL GAI FINAL ISSUE	DATE: 6/04/02 DATE: 6/04/02 DATE: 6/04/02
	APPROVED:

D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

ERECTOR DWG. E2 SCALE: 1"=1'		JOB NO:
SHEET TITLE	REPAIR DETAILS	
STRUCTURE	BRIDGE REHABILITATION	SHEET NO:
LOCATION	F.A.P. ROUTE 112 (ILINOS 63 RIBY STREET) SECTION M-B-DR-4-1-1	
ENGINEER	PARSONS BRINCKERHOFF	
ARCHITECT	STRUCTURE # 099-9901	



17 - BEAM - A3
(REF. BEAM A41)



17 - BEAM - B3
(REF. BEAM A41)

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1					
2					
3					
4					
5					
6					
7	17	W24x68	21'-3 5/8"	A3	NTR
8	17	L 8"x3/8"	3'-5 3/8"	0c3	NTR
9	17	L 8"x3/8"	1'-6 3/8"	0c3	0c3
10	68	PLATE 3/8"x3 1/4"	1'-10 1/2"	0c3	
11	102	7/8" A325 BOLTS	0'-2 3/4"	SB11	
12					
13					
14					
15	17	W24x68	21'-3 5/8"	B3	NTR
16	17	L 8"x3/8"	3'-5 3/8"	0c3	
17	17	L 8"x3/8"	1'-6 3/8"	0c3	CLIP
18	68			0c3	
19	102			SB11	
20					
21					
22					
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27					
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GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAY BE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

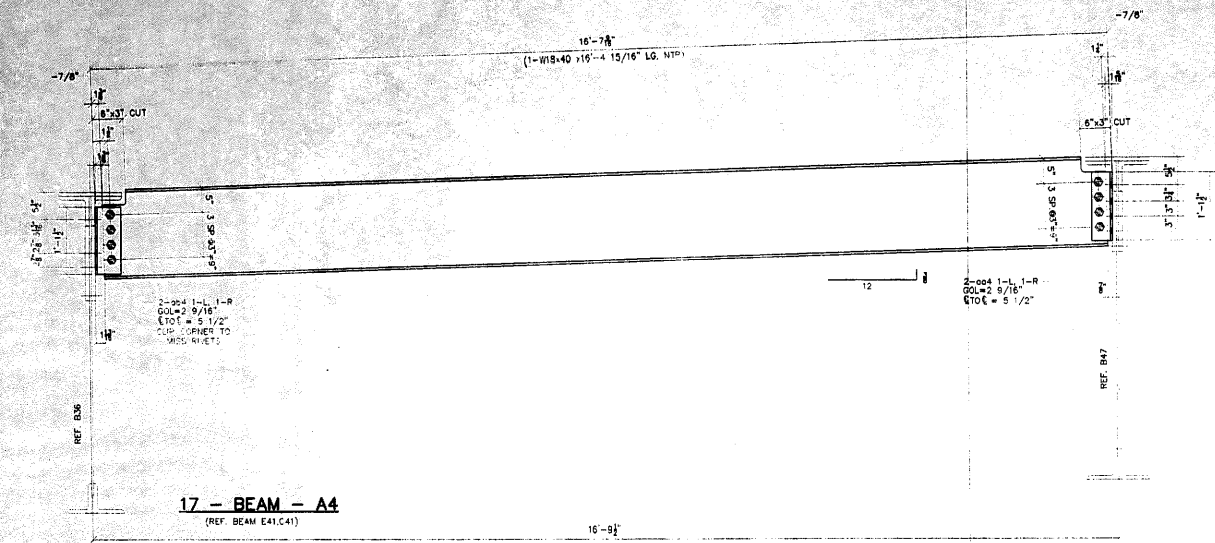
FIELD VERIFY ALL

APPROVED
For Major Designation and Materials Only
JAN 30 2004
Ralph E. Anderson
Engineer of Bridge & Traffic Structures

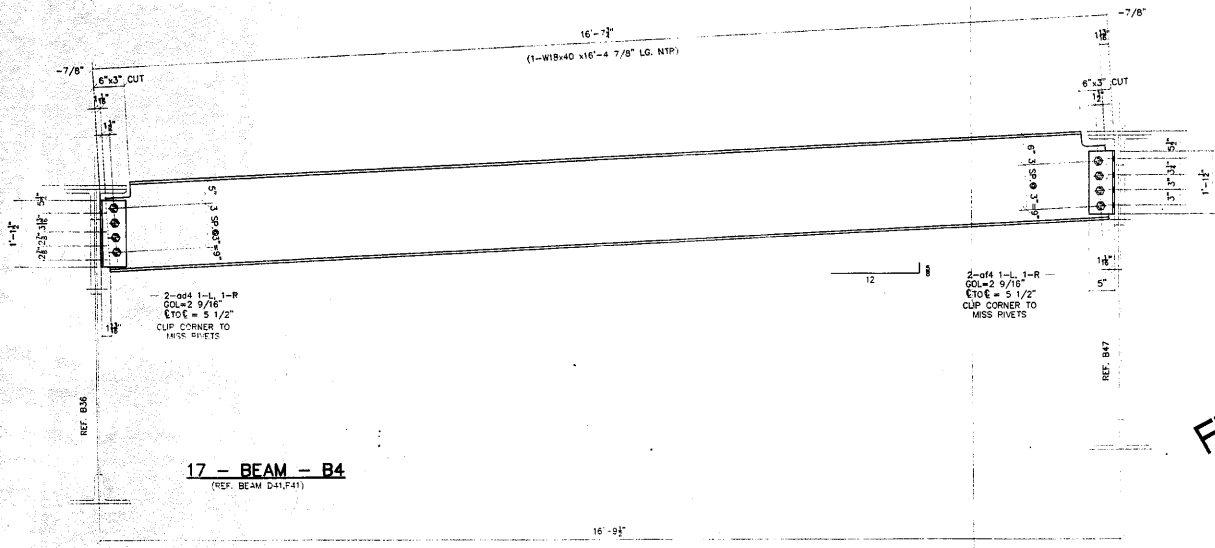
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY TO DETERMINE THE ACCURACY OF THE INFORMATION CONTAINED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE INFORMATION CONTAINED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE INFORMATION CONTAINED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE INFORMATION CONTAINED HEREIN.		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX (MATERIAL) ASTM A 36 U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	
NOI BY	REVISIONS	DATE	DRAWN BY: GAH
GAH		7/23/02	DATE: 6/03/02
GAH	ISSUED FOR APPROVAL	8/19/02	CHECKED BY:
			DATE:
			APPROVED:

D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

ERECTION DWG. E1 SCALE: 1"=1'		JOB NO:	
SHEET TITLE	BEAM DETAILS		
STRUCTURE	BRIDGE REHABILITATION		
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO:	
	FAP, ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-4-1-1		
ENGINEER	WILL COUNTY, ILLINOIS		
ARCHITECT	PARSONS BRINCKERHOFF		
	STRUCTURE # 099-9901	3	



17 - BEAM - A4
(REF. BEAM E41,C41)



17 - BEAM - B4
(REF. BEAM D41,F41)

NO.	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.					
3.					
4.					
5.					
6.					
7.	17.	W18x40	16'-4 15/16"	A4	NTR
8.	17.	L 5'x5'x3/8"	1'-1 1/2"	cd4	CLIP
9.	17.	L 5'x5'x3/8"	1'-1 1/2"	cd4	CLIP
10.	136	7/8" A325 BOLTS	0'-2 3/4"	S811	
11.					
12.					
13.					
14.	17.	W18x40	16'-4 7/8"	B4	NTR
15.	17.	L 5'x5'x3/8"	1'-1 1/2"	cd4	CLIP
16.	17.	L 5'x5'x3/8"	1'-1 1/2"	cd4	CLIP
17.	136			S811	
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FIELD VERIFY ALL

GENERAL NOTES

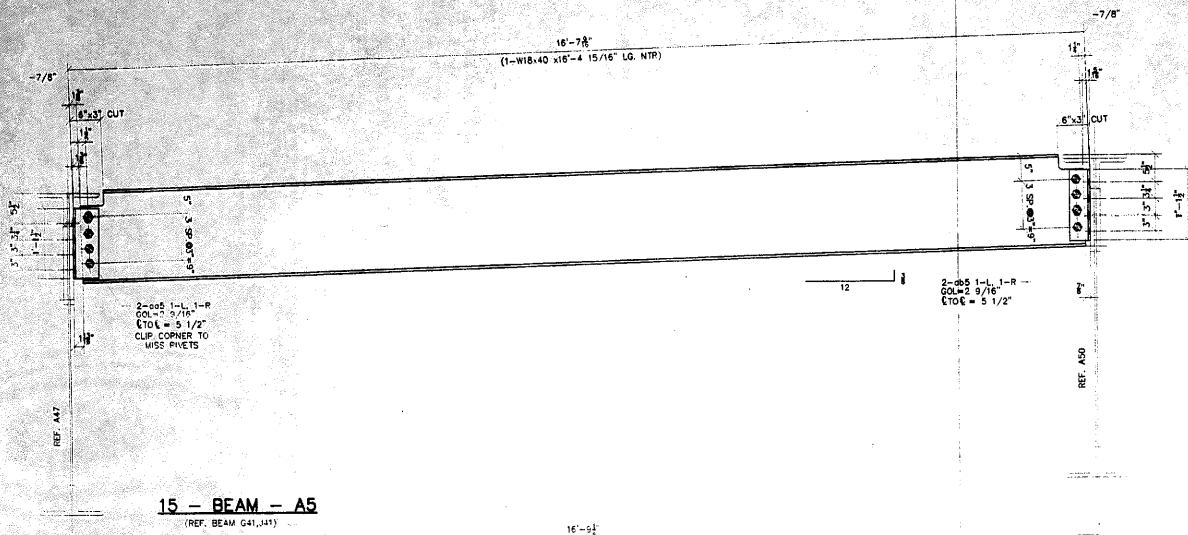
- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M148 CALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

APPROVED
For Metal Fabrication and Materials Only
JAN 3 0 2004
Ralph E. Adams
Engineer of Bridge & Traffic Structures

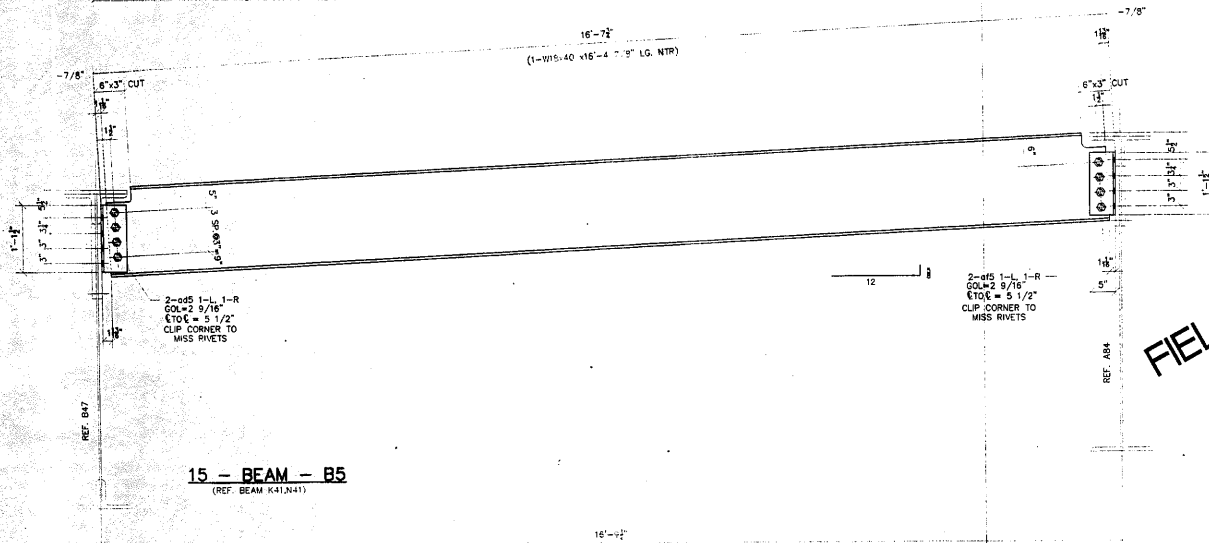
APPROVAL/REVIEW AUTHORITY: I HEREBY REVIEW THIS DRAWING CAREFULLY AND CERTIFY THAT THE INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I AM NOT PROVIDING ANY GUARANTEE FOR THE ACCURACY OF THE INFORMATION SHOWN ON THIS DRAWING. THIS IS THE PROPERTY OF THE ENGINEER. IT IS TO BE KEPT IN THE OFFICE OF THE ENGINEER. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX (MATL=ASTM A 36) U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES		
NO.	BY	REVISIONS	DATE	DRAWN BY: GAH
1	GAH	ISSUED FOR APPROVAL	7/23/02	DATE: 6/03/02
2	GAH	RE-ISSUED FOR APPROVAL	9/9/02	CHECKED BY:
3				DATE:
4				APPROVED:

D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

ERECTOR DWG. E1 SCALE: 1"=1'		JOB NO:	
SHEET TITLE: BEAM DETAILS			
STRUCTURE	BRIDGE REHABILITATION		
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-06		
ENGINEER	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION # 5-DR-4-1-1		
ARCHITECT	WILL COUNTY, ILLINOIS		
	PARSONS BRINCKERHOFF		
	STRUCTURE # 099-9901		
SHEET NO:		4	



15 - BEAM - A5
(REF. BEAM G41, J11)



15 - BEAM - B5
(REF. BEAM K41, J41)

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.					
3.					
4.					
5.					
6.					
7.	15	W18x40	16'-4 15/16"	A5	NTR
8.	15	L 3x5x3/8	1'-1 1/2"	q05	CLIP
9.	15	L 3x5x3/8	1'-1 1/2"	q05	
10.	120	7/8" A325 BOLTS	0-2 3/4"	SB11	
11.					
12.					
13.					
14.	15	W18x40	16'-4 7/8"	B5	NTR
15.	15	L 3x5x3/8	1'-1 1/2"	q05	CLIP
16.	15	L 3x5x3/8	1'-1 1/2"	q05	CLIP
17.	120			SB11	
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GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

FIELD VERIFY ALL

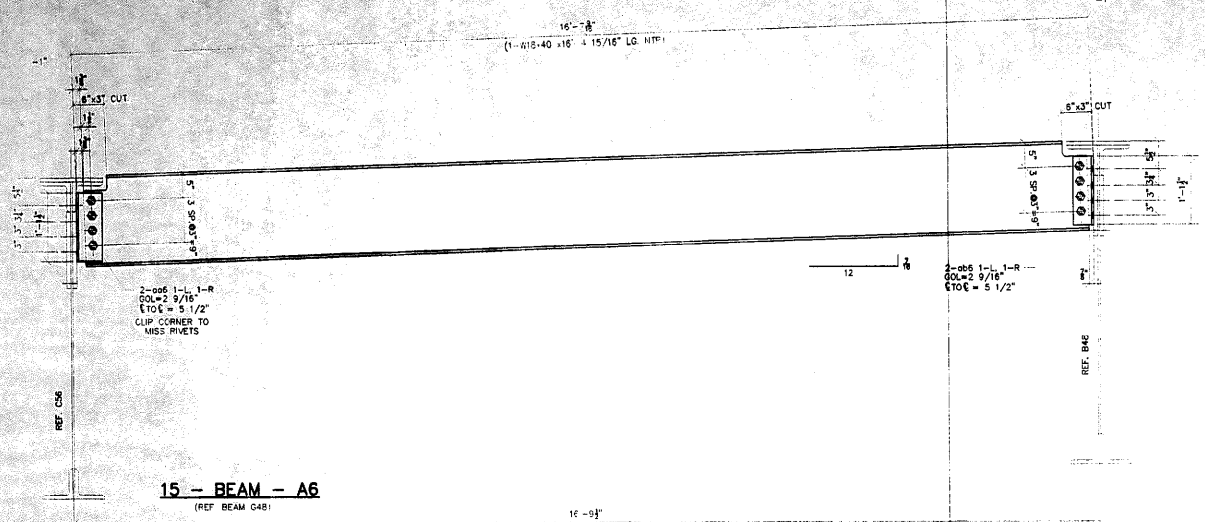
APPROVED
For High Designation and
Seismicity Only
JAN 3 0 2004
Ralph E. Anderson
Engineer of Design & Trade Structures

ERECTION DWG. E1 SCALE: 1"=1'

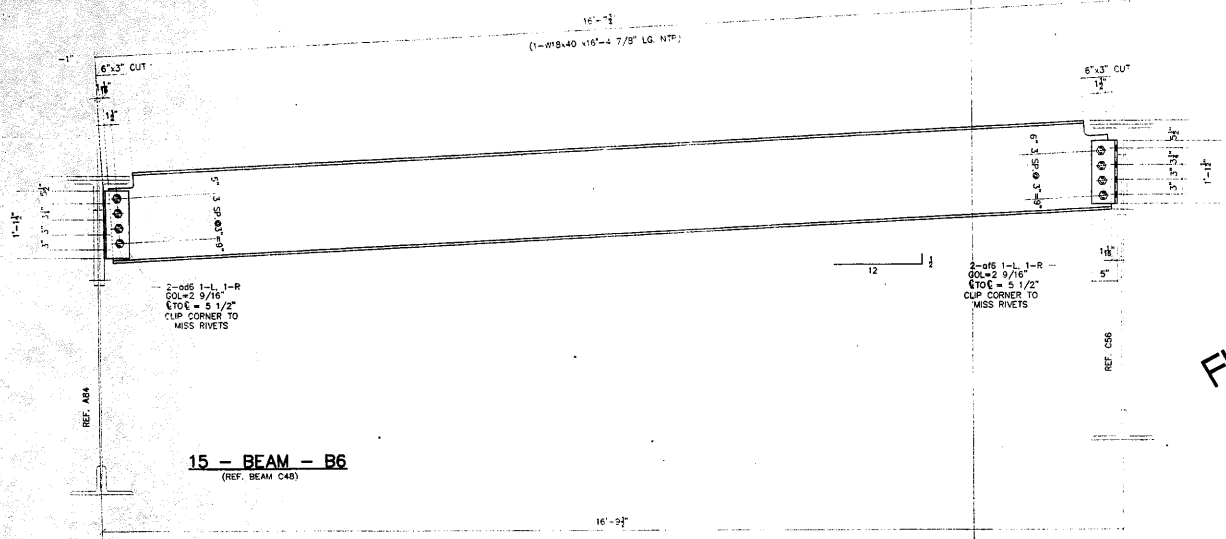
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. IF REVISIONS ARE REQUIRED, THE ENGINEER OR ARCHITECT SHALL BE NOTIFIED AND THE REVISIONS SHALL BE APPROVED AND DATED BY THE ENGINEER OR ARCHITECT. THE RESPONSIBILITY OF THE DESIGNER IS TO PROVIDE THE REVISIONS TO THE ENGINEER OR ARCHITECT. REVISIONS TO THIS DRAWING SHALL BE APPROVED AND DATED BY THE ENGINEER OR ARCHITECT. SUBSEQUENT CHANGES TO APPROVALS SHALL BE APPROVED AND DATED BY THE ENGINEER OR ARCHITECT. THE STRUCTURAL ENGINEER SHALL NOT ACCEPT ANY CHANGES TO THE STRUCTURE UNLESS THEY ARE APPROVED AND DATED BY THE ENGINEER OR ARCHITECT. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY CHANGES TO THE STRUCTURE UNLESS THEY ARE APPROVED AND DATED BY THE ENGINEER OR ARCHITECT.	PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX MAT = A57M A36 } U.I.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
	NO. BY REVISIONS DATE DRAWN BY: GAH GAH ISSUED FOR APPROVAL 7/21/02 DATE: 6/03/02
	GAH REVISED QUANTITIES 8/16/02 CHECKED BY:
	GAH RE-ISSUED FOR APPROVAL 8/16/02 DATE:
	APPROVED:

D'D CONSTRUCTION, INC.
GENERAL CONTRACTOR
1458 SO. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE	BEAM DETAILS	JOB NO.
STRUCTURE	BRIDGE REHABILITATION CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO.
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-4-1-1	5
ENGINEER	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF	
ARCHITECT	STRUCTURE # 099-9901	



15 - BEAM - A6
(REF. BEAM C48)



15 - BEAM - B6
(REF. BEAM C48)

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1					
2					
3					
4					
5					
6					
7	18	W18x40	10'-4 15/16"	A6	NTR
8	18	L 5"x5"x3/8"	1'-1 1/2"	cd6	CLIP
9	18	L 4"x4"x3/8"	1'-1 1/2"	cd2	
10	120	7/8" A325 BOLTS	0'-2 3/4"	SB11	
11					
12					
13					
14	15	W18x40	10'-4 7/8"	B6	NTR
15	18	L 5"x5"x3/8"	1'-1 1/2"	cd6	CLIP
16	18	L 4"x4"x3/8"	1'-1 1/2"	cd6	CLIP
17	120			SB11	
18					
19					
20					
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GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPEC.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

FIELD VERIFY ALL

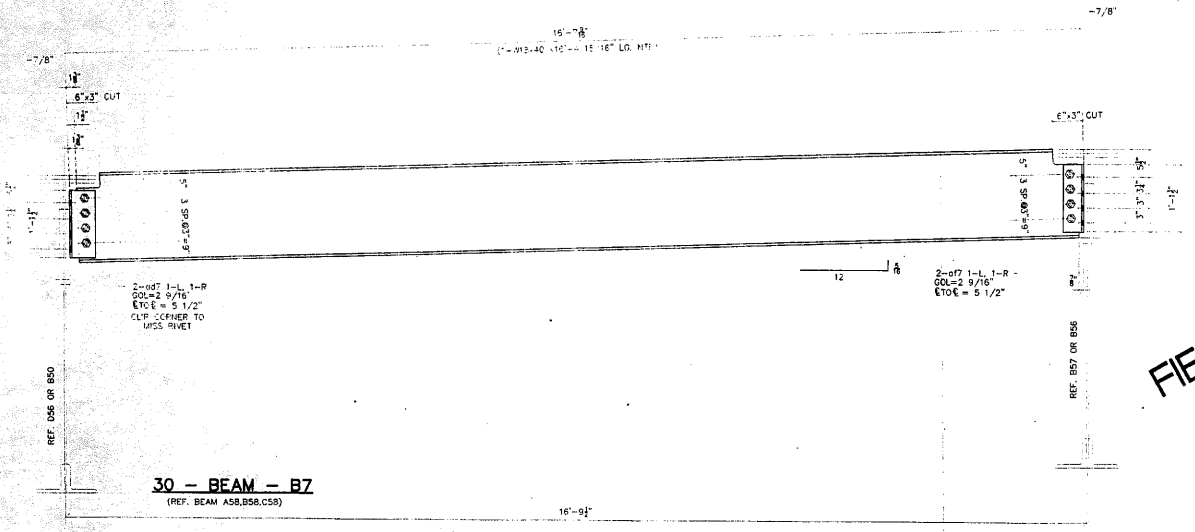
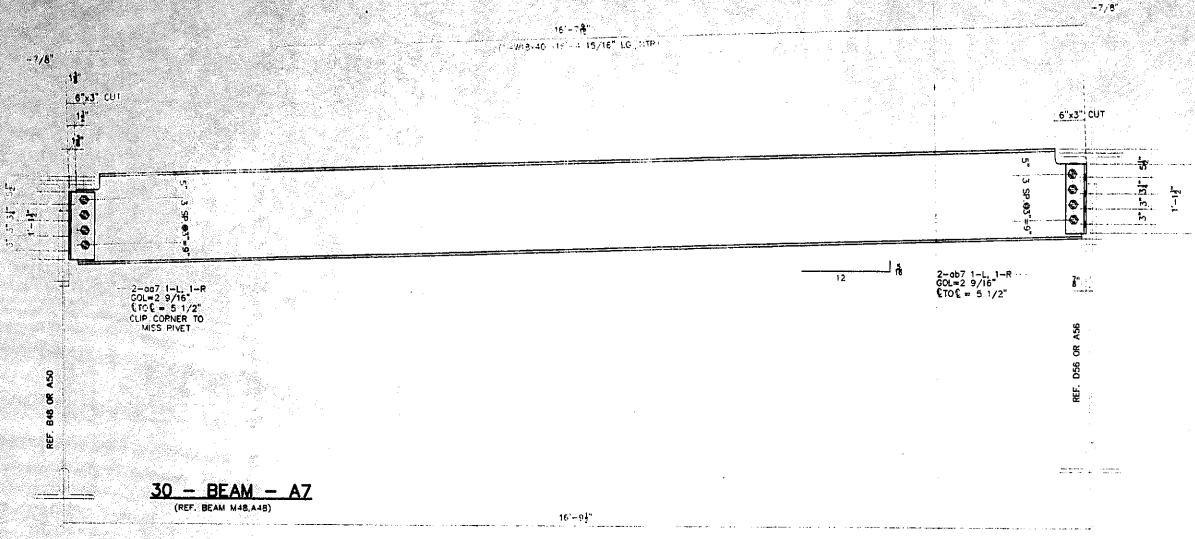
APPROVED
For Mechanical Department and
Miscellaneous Only

JAN 3 0 2004
Ralph E. Anderson
Engineer of Bridge & Traffic Structures

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. IF APPROVED, SIGN AND DATE THE DRAWING AND RETURN TO THE DESIGNER. IF NOT APPROVED, THE DESIGNER SHALL BE NOTIFIED AND THE DESIGNER SHALL BE RESPONSIBLE FOR THE CORRECTIONS. ANY CHANGES TO THE DRAWING SHALL BE MADE BY THE DESIGNER AND THE APPROVED DRAWING SHALL BE USED FOR FABRICATION.		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX (MATL=ASTM A 36) U.I.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES		
NO.	BY	REVISIONS	DATE	DRAWN BY: GAH
1	GAH	ISSUED FOR APPROVAL	7/23/02	DATE: 6/03/02
2	GAH	REVISED QUANTITIES	8/16/02	CHECKED BY:
3	GAH	RE-ISSUED FOR APPROVAL	8/19/02	DATE:
APPROVED:				

D'D CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

ERECTION DWG. E1 SCALE: 1"=1'		JOB NO:	
SHEET TITLE	BEAM DETAILS		
STRUCTURE	BRIDGE REHABILITATION		
LOCATION	CONTRACT # 80193 PROJECT # C-91-366-96 F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-4-I-1	SHEET NO:	
ENGINEER	WILL COUNTY, ILLINOIS	6	
ARCHITECT	PARSONS BRINCKERHOFF STRUCTURE # 099-9901		



#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.					
3.					
4.					
5.					
6.					
7.	30	W16x40	16'-4 15/16"	A7	NTR
8.	30	L 4"x3/8"	1'-1 1/2"	q47	CUP
9.	30	L 5"x3/8"	1'-1 1/2"	q47	
10.	240	7/8" A325 BOLTS	0'-2 3/4"	SB11	
11.					
12.					
13.					
14.	30	W16x40	16'-4 15/16"	B7	NTR
15.	30	L 5"x3/8"	1'-1 1/2"	q47	CUP
16.	30	L 4"x3/8"	1'-1 1/2"	q47	
17.	240				SB11
18.					
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FIELD VERIFY ALL

GENERAL NOTES

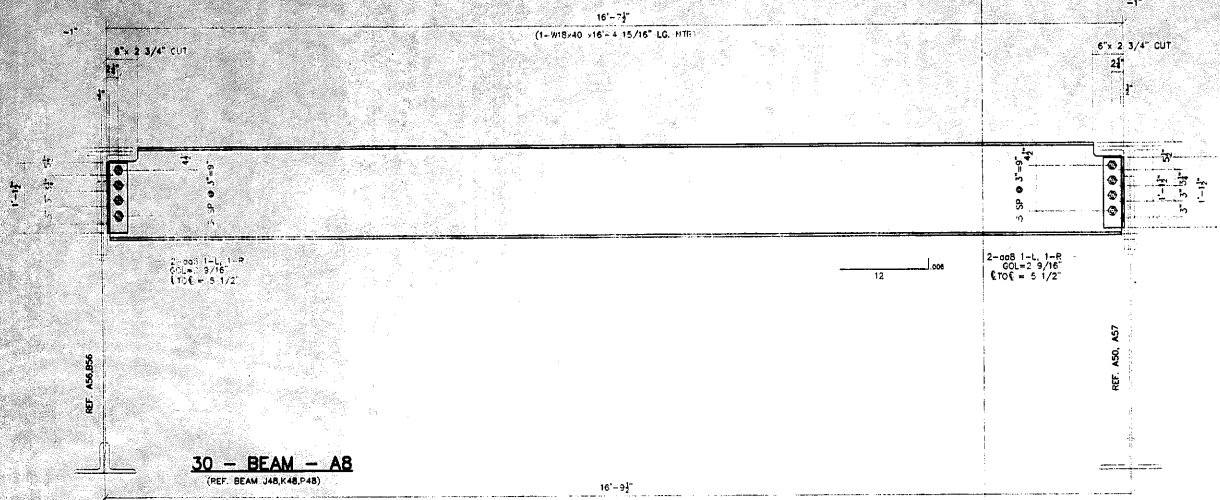
- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BLASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

APPROVED
 For Steel Fabrication and
 Installation Only
 JAN 3 0 2004
Ralph E. Anderson
 Engineer of Bridge & Traffic Structures

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. I HEREBY CERTIFY THAT THE INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I AM A duly Licensed Professional Engineer in the State of Illinois. FOR THE DESIGNER:		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX (MATERIAL=ASTM A 50) U.N. WIRE FOR SHIPMENT: ALL LOOSE CLIP ANGLES	
NO.	BY	REVISIONS	DATE
1	GAH	ISSUED FOR APPROVAL	7/21/02
2	GAH	REVISED QUANTITIES	6/03/02
3	GAH	RE-ISSUED FOR APPROVAL	8/19/02
APPROVED:			



ERECTION DWG. E1 SCALE: 1"=1'		JOB NO:	
SHEET TITLE		BEAM DETAILS	
STRUCTURE	BRIDGE REHABILITATION	SHEET NO:	
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96	7	
ENGINEER	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-4-1-1		
ARCHITECT	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF STRUCTURE # 099-9901		



#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.					
3.					
4.					
5.					
6.					
7.	30	W18x40	18'-4 15/16"	AB	NTR
8.	240	1/8" x 3/8"	1'-1 1/2"	qs8	
9.	240	7/8" A325 BOLTS	0'-2 3/4"	SB11	
10.					
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FIELD VERIFY ALL

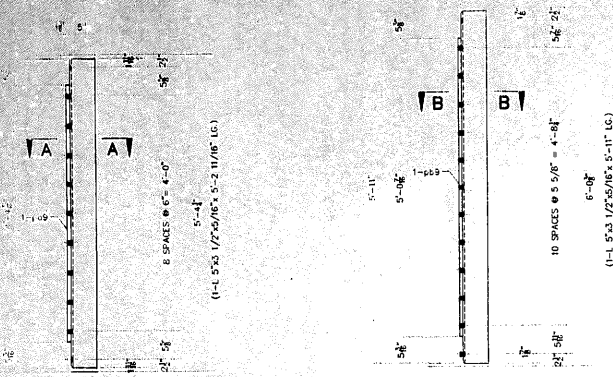
GENERAL NOTES

1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 ONLY, 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
6. CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BLASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

APPROVED
For Metal Fabrication and
Erection Only
JAN 3 8 2004
Ralph E. Anderson
Engineer of Bridge & Traffic Structures

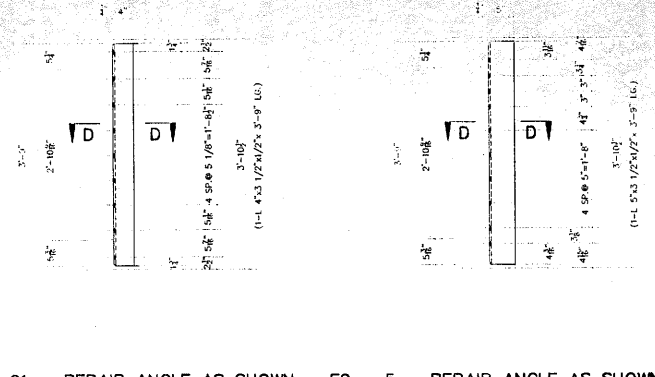
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. IT REPRESENTS THE DESIGNER'S BEST EFFORT FOR THE INFORMATION AND DATA PROVIDED AND THE DESIGNER DOES NOT GUARANTEE, WARRANT OR REPRESENT THE ACCURACY, COMPLETENESS OR SUFFICIENCY OF THE INFORMATION OR DATA PROVIDED OR THE DESIGN. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN AND THE CONSTRUCTION OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE WORK.				PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 } U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES				<p style="font-size: 8px; margin: 0;"> D' CONSTRUCTION, INC. GENERAL CONTRACTOR 1488 SO. BROADWAY COAL CITY, ILLINOIS 60416 </p>	SHEET TITLE	BEAM DETAILS	JOB NO:
NO. BY REVISIONS DATE DRAWN BY: GAN GAN ISSUED FOR APPROVAL 7/2/02 DATE: 6/03/02				STRUCTURE	BRIDGE REHABILITATION	SHEET NO:					
GAN REVISSED QUANTITIES 8/6/02 CHECKED BY:				LOCATION	FAP ROUTE 112 ILLINOIS 53 RUBY STREET SECONN M-9-02-4-I-I	8					
GAN RE-ISSUED FOR APPROVAL 8/19/02 DATE:				ENGINEER	WILL COUNTY, ILLINOIS						
APPROVED:				ARCHITECT	PARSONS BRINCKERHOFF STRUCTURE # 099-9901						

ERECTION DWG. E | SCALE: 1"=1'



REPAIR ANGLE AS SHOWN - A9
OPPOSITE - B9
 REFERENCE SHEET # 23 SECTION A-A

REPAIR ANGLE AS SHOWN - D9
OPPOSITE - E9
 REFERENCE SHEET # 23 SECTION B-B



REPAIR ANGLE AS SHOWN - F9
OPPOSITE - G9
 REFERENCE SHEET # 23 SECTION C-C

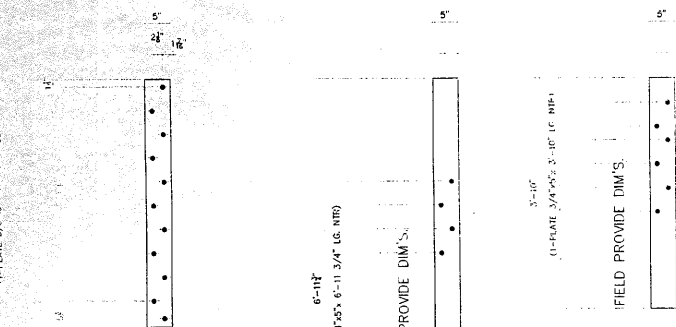
REPAIR ANGLE AS SHOWN - H9
OPPOSITE - K9
 REFERENCE SHEET # 23 SECTION D-D

SECTION A-A

SECTION B-B

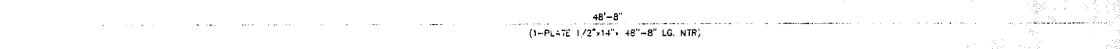
SECTION D-D

NO	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1					
2	4	L 5 x 3 1/2 x 5/16	5'-11 1/8"	A9	
3	4	PLATE 1 3/8 x 3 1/2	4'-4 1/4"	pb9	
4					
5	ONE	L 5 x 3 1/2 x 5/16	5'-11 1/8"	B9	
6	ONE			pb9	
7					
8	9	L 5 x 3 1/2 x 5/16	5'-11"	D9	
9	9	PLATE 5/8 x 3 1/2	5'-0 3/8"	pb9	
10					
11	2	L 5 x 3 1/2 x 5/16	5'-11"	E9	
12	2			pb9	
13					
14	21	L 4 x 3 1/2 x 1/2	3'-9"	F9	
15					
16	36	L 4 x 3 1/2 x 1/2	3'-9"	G9	
17					
18	5	L 5 x 3 1/2 x 5/16	3'-9"	H9	
19					
20	ONE	L 5 x 3 1/2 x 5/16	3'-9"	K9	
21					
22	6	PLATE 3/8 x 5	4'-1 5/8"	N9*	
23					
24	ONE	PLATE 3/4 x 5	6'-11 3/4"	P9*	NTR
25					
26	ONE	PLATE 1/2 x 14	48'-8"	R9*	NTR
27					
28	ONE	PLATE 1/2 x 14	19'-3 1/4"	T9*	NTR
29					
30	4	MC18x45.8	6'-3 1/4"	V9	NTR

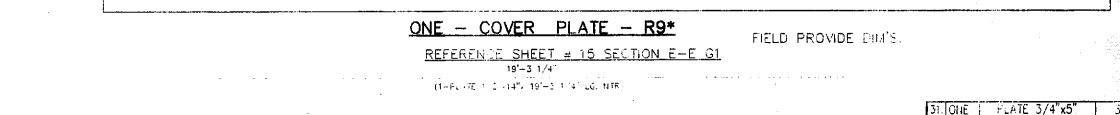


REPAIR KNEE BRACE - N9*
 REFERENCE SHEET # 15 SECTION A-A-B-B-D-D

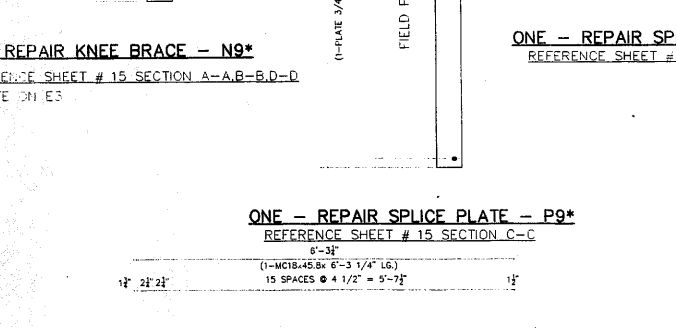
REPAIR SPLICE PLATE - W9*
 REFERENCE SHEET # 15 SECTION C-C, E-E



ONE - COVER PLATE - R9*
 REFERENCE SHEET # 15 SECTION E-E, G1
 19'-3 1/4"
 (1-PLATE 1/2" x 14" 19'-3 1/4" LG. NTR)

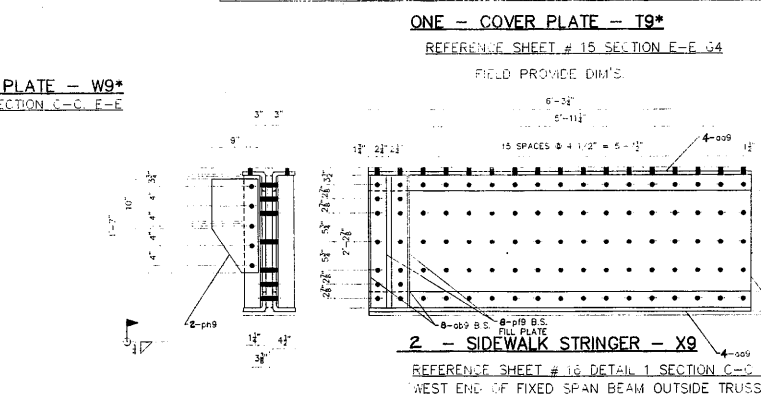


ONE - COVER PLATE - T9*
 REFERENCE SHEET # 15 SECTION E-E, G4
 FIELD PROVIDE DIM'S.



ONE - REPAIR SPLICE PLATE - P9*
 REFERENCE SHEET # 15 SECTION C-C

4 - ROADWAY STRINGER REPAIR - V9
 REFERENCE SHEET # 16 DETAIL 2, SECTION E-D
 (WEST END OF FIXED SPAN BEAM S1 AND S13)



2 - SIDEWALK STRINGER - X9
 REFERENCE SHEET # 16 DETAIL 1 SECTION C-C
 (WEST END OF FIXED SPAN BEAM OUTSIDE TRUSS)

NO	QTY	DESCRIPTION	SIZE	MARK	REMARKS
31	ONE	PLATE 3/4 x 5	3'-10"	W9*	NTR
32					
33	2	SIDEWALK STRINGER		X9	NTR
34	4	PLATE 3/8 x 20 3/8	6'-3 1/4"	pb9	NTR
35	8	PLATE 3/4 x 3 1/2	1'-8 3/8"	pb9	NTR
36	2	PLATE 1/2 x 9	1'-9"	pb9	NTR
37	8	L 6 x 4 x 3/4	6'-3 1/4"	oa9	NTR (NTR)
38	8	L 3 1/2 x 3 1/2 x 3/8	2'-2 7/8"	ob9	NTR (NTR)
39					

- GENERAL NOTES**
- REPAIR STEEL FOR EAST APPROACH SPAN.
 - ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS.
 - ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
 - BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M 270 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 1/8" UNLESS NOTED OTHERWISE.
 - STRUCTURAL STEEL MAY BE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
 - IF COUPLES III PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
 - CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER.
 - NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

FIELD VERIFY ALL

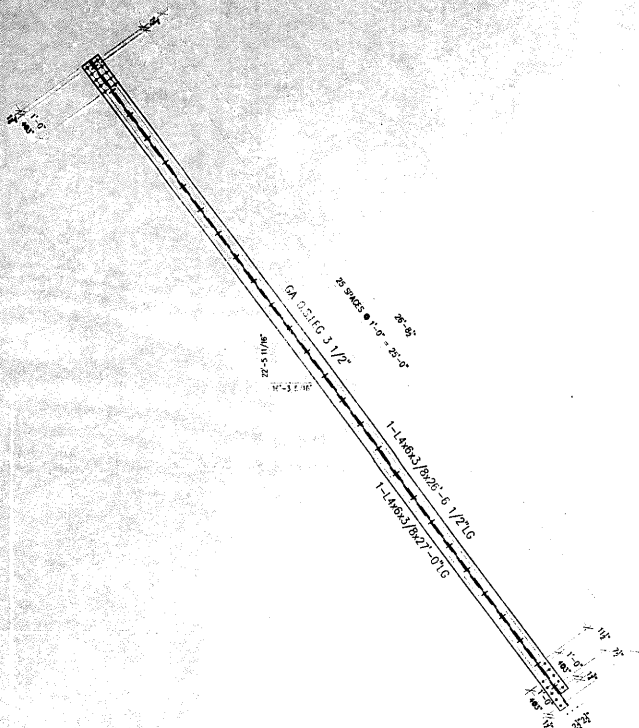
APPROVAL REVIEW AUTHORITY
 ENGINEER REVIEW THIS DRAWING CAREFULLY FOR CONFORMANCE WITH THE SPECIFICATIONS AND THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS AND THE LOCATION OF THE REPAIRS.

PAINT: INORGANIC ZINC RICH PRIMER (WEIGHT 1/4")
 HOLES: 15/16" (WELDS = E70XX) (MFT = ASTM A 36)
 WIRE FOR SHIPMENT ALL LOOSE CUT ANGLES
 NO. BY DATE REVISIONS DATE REVISION BY
 GAN ISSUED FOR APPROVAL 1/12/00 DATE: E(C)
 GAN RE-ISSUED FOR APPROVAL 8/29/00 CHECKED BY:
 GAN REVISED 10/26/00 AND 8/2/02 DATE:
 APPROVED:

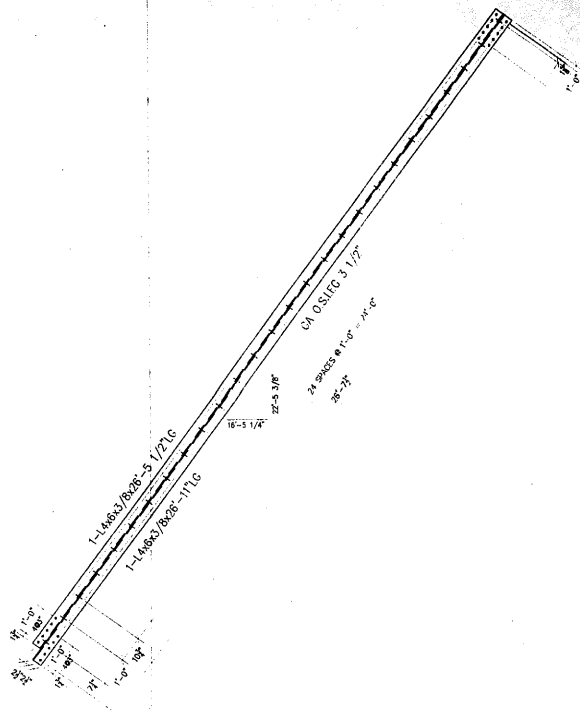
D'D CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1488 S. BROADWAY
 COAL CITY, ILLINOIS 60416

SHEET TITLE	REPAIR DETAILS	JOB NO.
STRUCTURE	BRIDGE REHABILITATION	
CONTRACT	CONTRACT # 2013 PROJECT # 2013-01-388-06	SHEET NO.
LOCATION	FAH ROAD 102 HUNDS CROSS STREET SECTION 11-8-DK-4-1-1	9
ENGINEER	PARSONS BRINCKERHOFF	
ARCHITECT	STRUCTURE # 099-551	

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 For Bridge Design and Materials Only
 JAN 30 2004
Robert E. Anderson
 Inspector of Bridge & Traffic Structures



2 - TOP LATERALS -A10
(A103 R/L - L1-L2 EAST LEAF)



2 - TOP LATERALS -B10
(C103 R/L - L2-L3 EAST LEAF)

FIELD VERIFY

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1					
2	2	L4x6x3/8	26'-6 1/2"	A10	
3	2	L4x6x3/8	27'-0"		
4					
5					
6					
7					
8					
9					
10					
11					
12					
13	2	L4x6x3/8	26'-11"	B10	
14	2	L4x6x3/8	26'-5 1/2"		
15					
16					
17					
18					
19					
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40					

APPROVED
For Design and
Materials Only

JAN 30 2004

Ralph E. Anderson
Engineer of Bridge & Traffic Structures

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER.
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

ERECTION DWG. E4 SCALE: 1/2"=1'

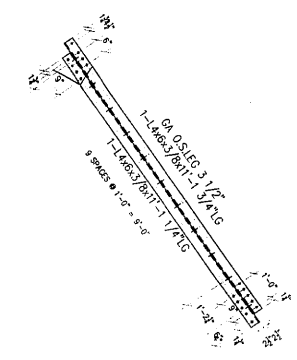
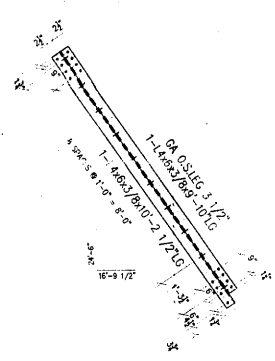
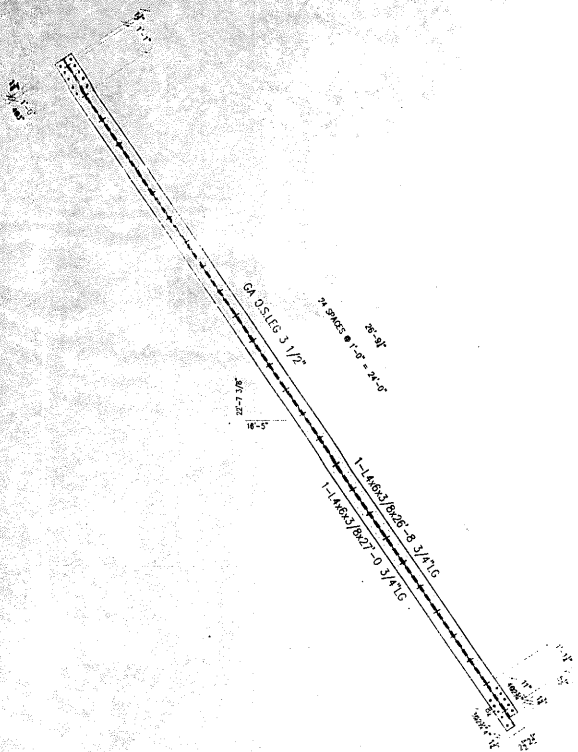
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. I, THE DESIGNER, HEREBY RELEASE THE CONTRACTOR FROM LIABILITY FOR THE CORRECTNESS OF THE DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL MATERIALS AND LABOR ON THE DRAWING. THIS IS THE RESPONSIBILITY OF THE BUYER.		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 } U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES		
NO.	BY	REVISIONS	DATE	DRAWN BY: GAH
1	GAH	ISSUED FOR APPROVAL	1/23/02	DATE: 5/28/02
2	GAH	RE-ISSUED FOR APPROVAL	1/13/02	CHECKED BY:
3	GAH	REVISED QUANTITIES	1/25/02	DATE:
4				APPROVED:



D'D CONSTRUCTION INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE	STRUCTURAL BRACES	JOB NO.
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96 F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-4-I-1	SHEET NO.
ENGINEER	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF STRUCTURE # 059-5901	10

2 - TOP LATERALS -B11
(A106 R/L - L7-L8 EAST LEAF)



2 - TOP LATERALS -A11
(E103 R/L - L3-L4 EAST LEAF)

2 - TOP LATERALS -D11
(B106 R/L - L7-L8 EAST LEAF)

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	2	L4x6x3/8	26'-8 3/4"	A11	
3.	2	L4x6x3/8	27'-0 3/4"		
4.					
5.					
6.					
7.					
8.					
9.					
10.	2	L4x6x3/8	9'-10"	B11	
11.	2	L4x6x3/8	10'-2 1/2"		
12.					
13.					
14.					
15.					
16.					
17.	2	L4x6x3/8	11'-1 1/4"	D11	
18.	2	L4x6x3/8	11'-1 3/4"		
19.					
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APPROVED
For the Design and
Fabrication of
JAN 30 2004
Ralph E. Anderson
Engineer of Design & Traffic Structures

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK M.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER.
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

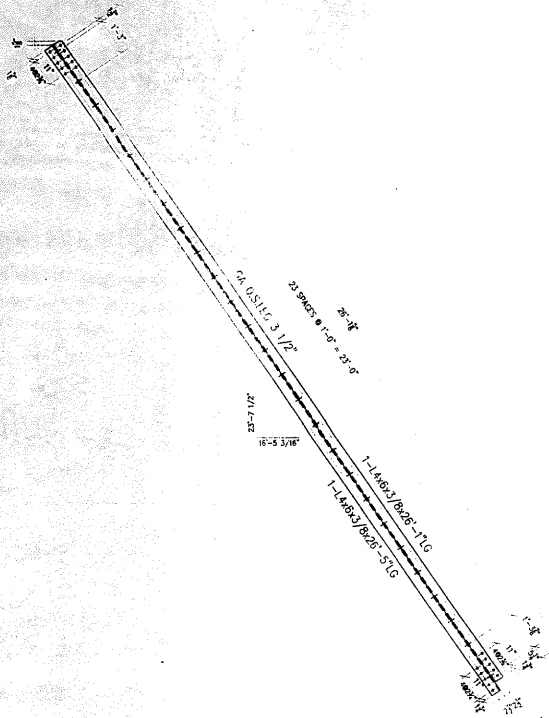
FIELD VERIFY

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. UNLESS NOTED TO THE CONTRARY, DO THE DRAWING, WHICH IS THE FIELD APPROVAL, IT WILL BE ASSUMED THE APPROVAL. SIGNATURES OF THE CONTRACTOR SHALL BE CLEARLY IDENTIFIED AS CONTRACTOR'S.		PAIN: INORGANIC ZINC RICH PRIMER (WELDS: 1/4") HOLES: 15/16" (WELDS = E70XX) (MATL=ASTM A 36) U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	
NO. BY	REVISIONS	DATE	DRAWN BY: GAH
GAH	ISSUED FOR APPROVAL	7/23/02	DATE: 5/28/02
GAH	RE-ISSUED FOR APPROVAL	8/19/02	CHECKED BY:
GAH	REVISION DIMENSIONS	8/25/02	DATE:
APPROVED:			

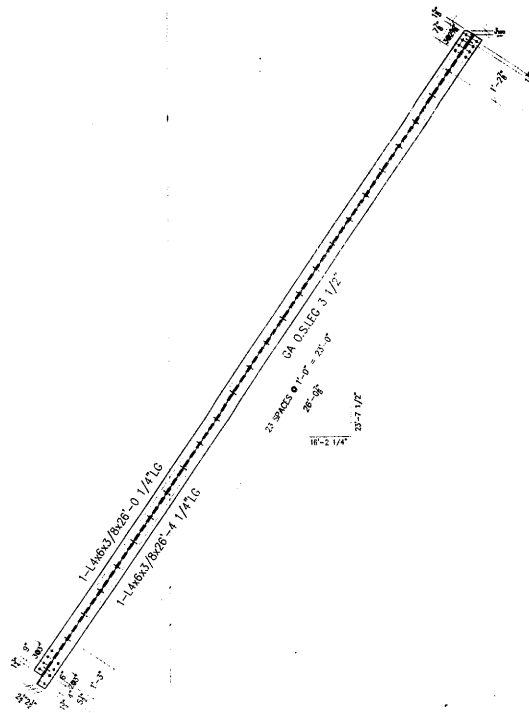


D'D CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

ERECTOR DWG. E4		SCALE: 1/2"=1'	JOB NO.:
SHEET TITLE	STRUCTURAL BRACES		
STRUCTURE	BRIDGE REHABILITATION		SHEET NO.:
	CONTRACT # 60193 PROJECT # C-91-366-96		
LOCATION	F.A.P. ROUTE 112 (ILLINOIS ST. RUBY STREET) SECTION M-B-IN-4-1-1		
ENGINEER	WILL COUNTY, ILLINOIS		
	PARSONS BRINCKERHOFF		
	STRUCTURE # 099-9901		



2 -- BOTTOM LATERALS -A12
(A104 R/L - L3-L4 EAST LEAF)



ONE - BOTTOM LATERALS -B12
(C104 R - L4-L5 EAST LEAF)

FIELD VERIFY

NO.	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	2	4x6x3/8	26'-1"	A12	
3.	2	4x6x3/8	26'-5"		
4.					
5.					
6.					
7.					
8.					
9.	1	4x6x3/8	28'-0 1/4"	B12	
10.	1	4x6x3/8	28'-4 1/4"		
11.					
12.					
13.					
14.					
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APPROVED
For Release, Distribution and
Use Only
JAN 9 0 2004
Ralph E. Anderson
Engineer of Bridge & Traffic Structures

GENERAL NOTES

1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GR4V, 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
6. CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

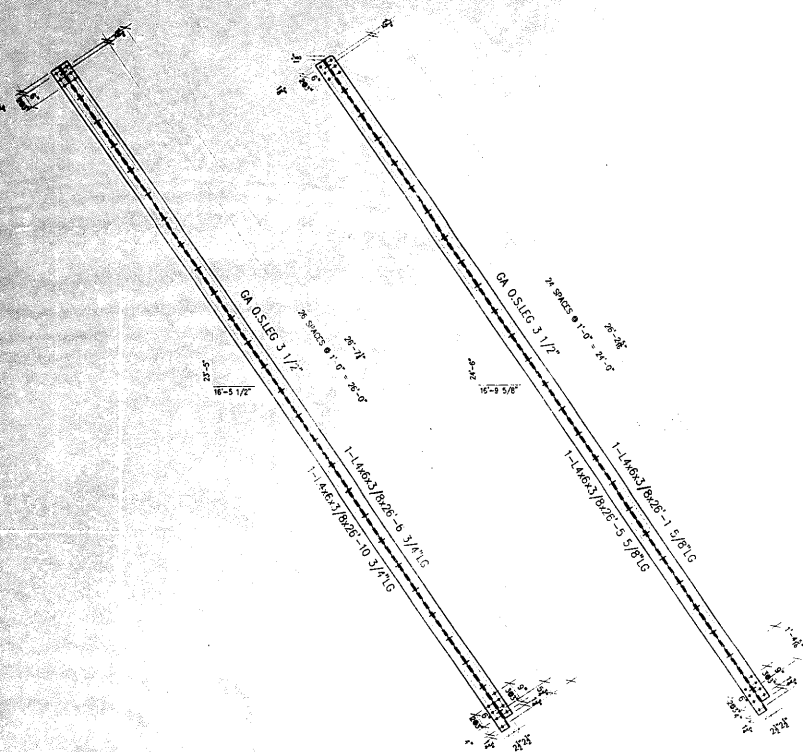
ERECTION DWG. E4 SCALE: 1/2"=1'

APPROVAL/REVISION AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. IF CORRECTIONS ARE REQUIRED, THE REVISIONS TO BE MADE SHOULD BE INDICATED BY A NUMBERED CIRCLE AND THE REVISIONS SHOULD BE MADE IN THE MARGINS OF THE DRAWING. THE RESPONSIBILITY OF THE REVISIONS IS THE RESPONSIBILITY OF THE REVISIONING ENGINEER. REVISIONS TO THE CONTRACT OR THE DRAWING WHICH ARE NOT APPROVED BY THE ENGINEER SHALL BE VOID. REVISIONS TO THE CONTRACT OR THE DRAWING WHICH ARE NOT APPROVED BY THE ENGINEER SHALL BE VOID. THE STRUCTURAL STEEL MEMBER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE DESIGN OR THE PRODUCTION OF FABRICATION DRAWINGS.		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX (MILL) ASTM A 36 } U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES		
NO.	BY	REVISIONS	DATE	DRAWN BY: GAH
1	GAH	ISSUED FOR APPROVAL	1/23/02	DATE: 5/28/02
2	GAH	RE-ISSUED FOR APPROVAL	8/19/02	CHECKED BY:
3	GAH	REVISED QUANTITIES	8/29/02	DATE:
4				APPROVED:



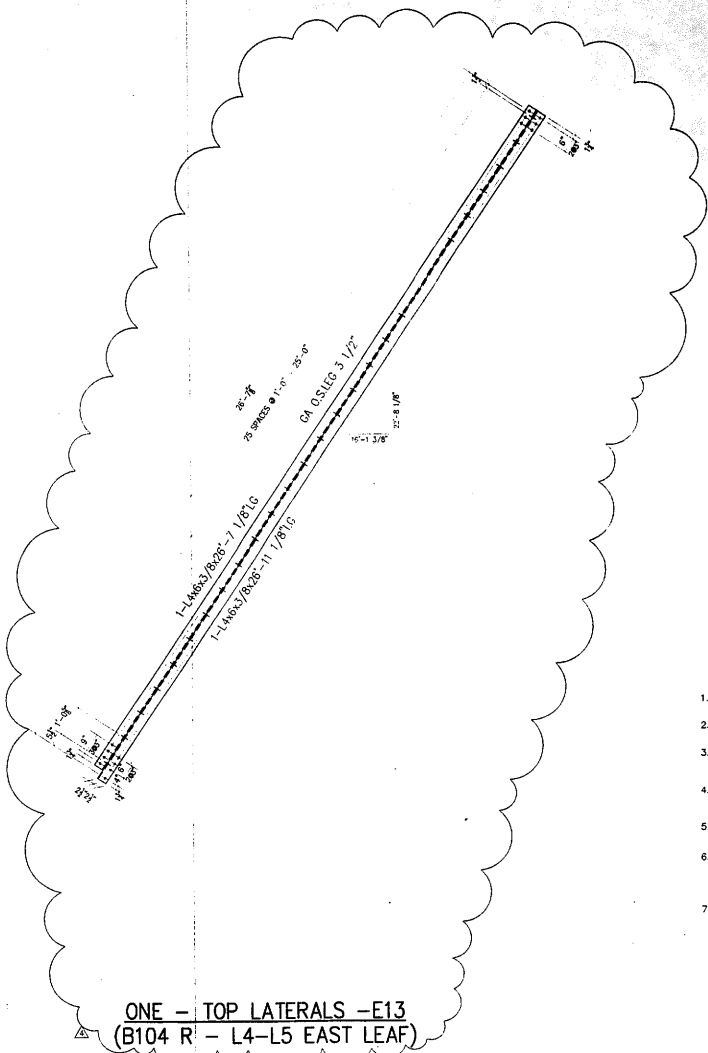
D'D CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 S.O. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE	STRUCTURAL BRACES	JOB NO.
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO.
ENGINEER	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-16-4-1-1	12
	WILL COUNTY, ILLINOIS	
	PARSONS BRINCKERHOFF	
	STRUCTURE # 099-8901	



▲ ONE - TOP LATERALS -A13
 (D104 R - L5-L7 EAST LEAF)
 ▲ 2 - TOP LATERALS -B13
 (D104 L - L5-L6 EAST LEAF)

2 - BOTTOM LATERALS -D13
 (E104 R/L - L5-L6 EAST LEAF)



▲ ONE - TOP LATERALS -E13
 (B104 R' - L4-L5 EAST LEAF)

FIELD VERIFY

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1					
2	1	4"x3/8"	26'-6 3/4"	A13	
3	1	4"x3/8"	26'-10 3/4"		
4					
5					
6					
7					
8					
9					
10					
11	2	4"x3/8"	26'-6 3/4"	B13	
12	2	4"x3/8"	26'-10 3/4"		
13					
14					
15					
16					
17					
18					
19					
20					
21	2	4"x3/8"	26'-1 5/8"	D13	
22	2	4"x3/8"	26'-5 5/8"		
23					
24					
25					
26					
27					
28					
29					
30	1	4"x3/8"	26'-7 1/8"	E13	
31	1	4"x3/8"	26'-11 1/8"		
32					
33					
34					
35					
36					
37					
38					
39					
40					

APPROVED
 For Steel Fabrication and
 Materials Only
 JAN 3 0 2004
Ralph E. Anderson
 Engineer of Bridge & Traffic Structures

GENERAL NOTES

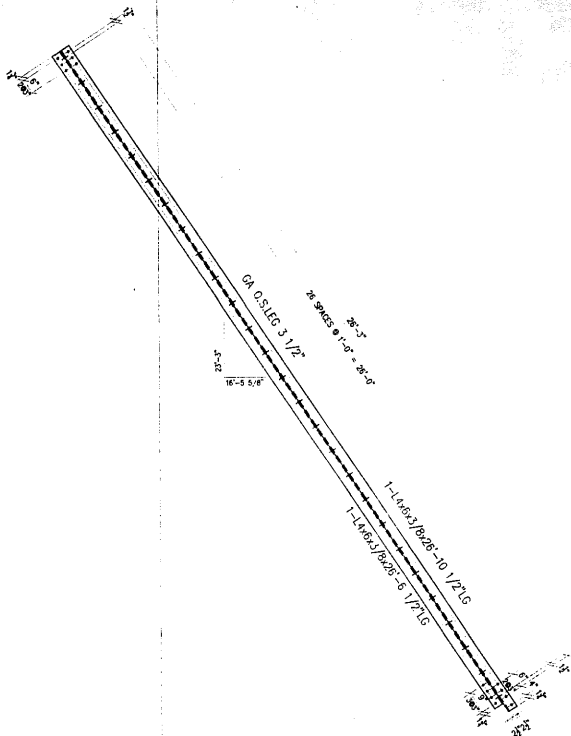
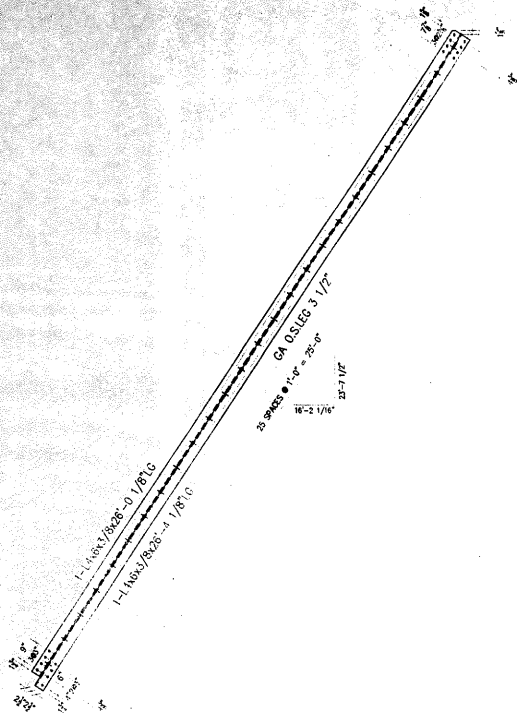
- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

ERECTION DWG. E4 SCALE: 1/2"=1'

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. THE CONTRACTOR ASSUMES RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION PROVIDED AND FOR THE CORRECTNESS OF THE DIMENSIONS AND MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRODUCTION OF FABRICATION DRAWINGS.		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES		
NO	BY	REVISIONS	DATE	DRAWN BY: GAH
1	GAH	ISSUED FOR APPROVAL	7/24/02	DATE: 5/23/02
2	GAH	REVISED FOR APPROVAL	8/19/02	CHECKED BY:
3	GAH	REVISED QUANTITIES	8/28/02	DATE:
4	GAH	REVISED PER COMMENTS	8/24/02	APPROVED:


D'D CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1488 SO. BROADWAY
 COAL CITY, ILLINOIS 60416

SHEET TITLE	STRUCTURAL BRACES	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	SHEET NO:
LOCATION	CONTRACT # 60103 PROJECT # C-91-368-96 E.A.P. ROUTE 112 (LINDS 53 RIBY STREET) SECTION M-B-08-4-1-1	13
ENGINEER	PARSONS BRINCKERHOFF STRUCTURE # 099-9901	



NO	TOTAL	SHAPE	LENGTH	MARK	REMARKS
11					
12	1	4x6x3/8	26-0 1/8	A14	
13	1	4x6x3/8	26-4 1/8		
14					
15					
16					
17					
18					
19					
20					
21					
22					
23	1	4x6x3/8	26-10 1/2	B14	
24	2	4x6x3/8	26-6 1/2		
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

ONE - BOTTOM LATERALS -A14
(A52 L - L4-L5 WEST LEAF)

2 - TOP LATERALS -B14
(B52 L - L5-L7 WEST LEAF)
ONE - TOP LATERALS -D14
(B52 R - L6-L7 WEST LEAF)

FIELD VERIFY

APPROVED
For Steel Detailing and
Materials Only
JAN 3 0 2004
Ralph E. Anderson
Supervisor of Bridge & Traffic Structures

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE ROUND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER.
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

ERECTION DWG. E4 SCALE: 1/2"=1'

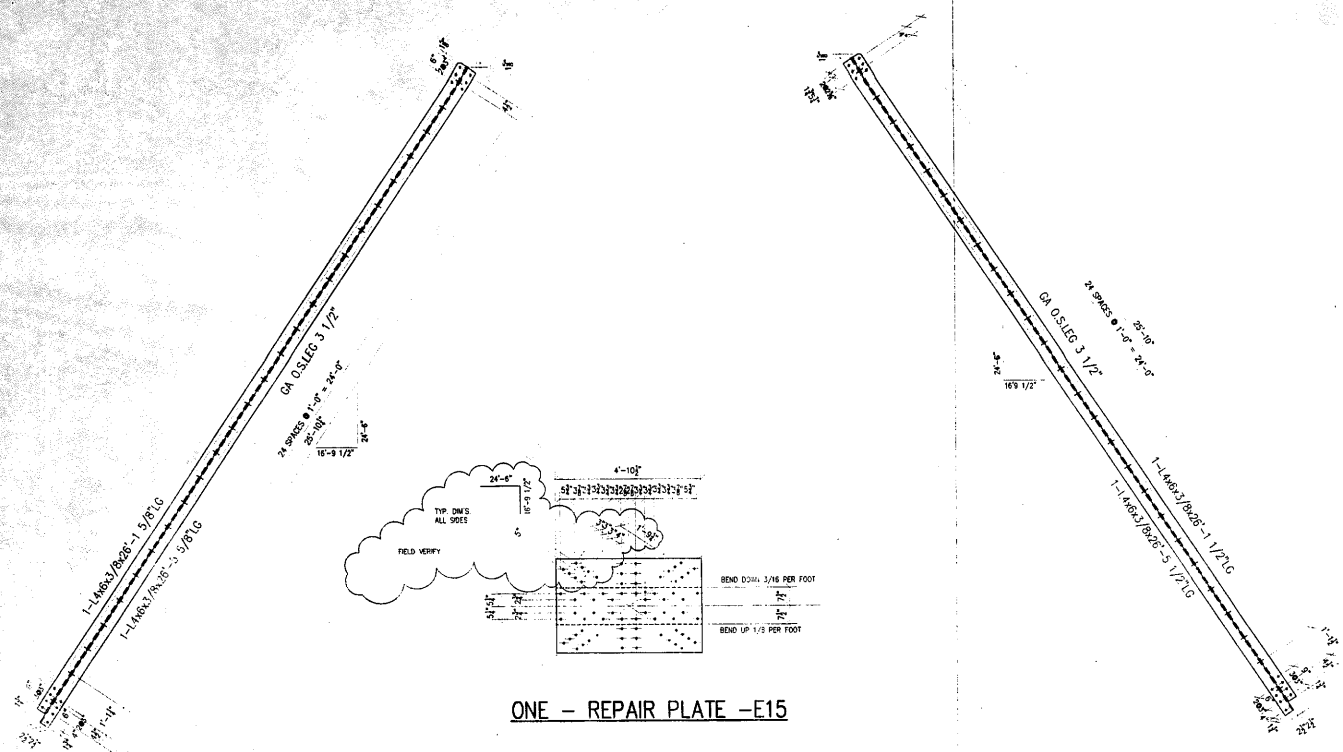
APPROVAL/REVIEW AUTHORITY:		PART: INORGANIC ZINC RICH PRIMER WELDS: 1/4"	
PLEASE REVIEW THIS DRAWING CAREFULLY FOR CONFORMANCE WITH THE GENERAL CONTRACT DOCUMENTS, SPECIFICATIONS AND THE DESIGN OF THE STRUCTURE. SIGNATURE FOR THE DESIGN OF THE STRUCTURE SHALL BE PROVIDED BY THE ENGINEER OF RECORD.		HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 U.N.	
FIELD NOTES TO THE CONTRACTOR: ON THE DRAWING, WHEN IT IS REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE APPROVAL/REVISION.		WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	
NO	BY	REVISIONS	DATE
Δ	GAH	ISSUED FOR APPROVAL	7/2/02
Δ	GAH	RE-ISSUED FOR APPROVAL	8/15/02
DRAWN BY: GAH		DATE: 5/26/02	
CHECKED BY:		DATE:	
APPROVED:		DATE:	



D'D CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE	STRUCTURAL BRACES	JOB NO:	
STRUCTURE	BRIDGE REHABILITATION	SHEET NO:	14
LOCATION	CONTRACT # 60193 PROJECT # C-91-365-96 T.A.P. ROUTE 112 (ILLINOIS 53 ROBY STREET) SECTION M-9-DK-4-1-1		
ENGINEER	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF STRUCTURE # 099-9901		

NO.	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	2	L4x6x3/8	28'-1 5/8"	A15	
3.	2	L4x6x3/8	28'-5 5/8"		
4.					
5.					
6.					
7.					
8.					
9.	2	L4x6x3/8	28'-1 5/8"	B15	
10.	2	L4x6x3/8	28'-5 5/8"		
11.					
12.					
13.					
14.					
15.					
16.	2	L4x6x3/8	28'-1 1/2"	D15	
17.	2	L4x6x3/8	28'-5 1/2"		
18.					
19.					
20.					
21.	1	PLATE 3/8x38 1/2"	4'-10 1/2"	E15	
22.					
23.					
24.					
25.					
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39.					
40.					



ONE - REPAIR PLATE -E15

2 - BOTTOM LATERALS -A15
(D52 R/L - L4-L5 WEST LEAF)

2 - BOTTOM LATERALS -B15
(E52 R/L - L7-L8 WEST LEAF)

2 - BOTTOM LATERALS -D15
(C52 R/L - L4-L5 WEST LEAF)

FIELD VERIFY

APPROVED
For Metal Fabrication and
Materials Only
JAN 3 0 2004
Ralph E. Anderson
Supervisor of Shop & Traffic Division

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

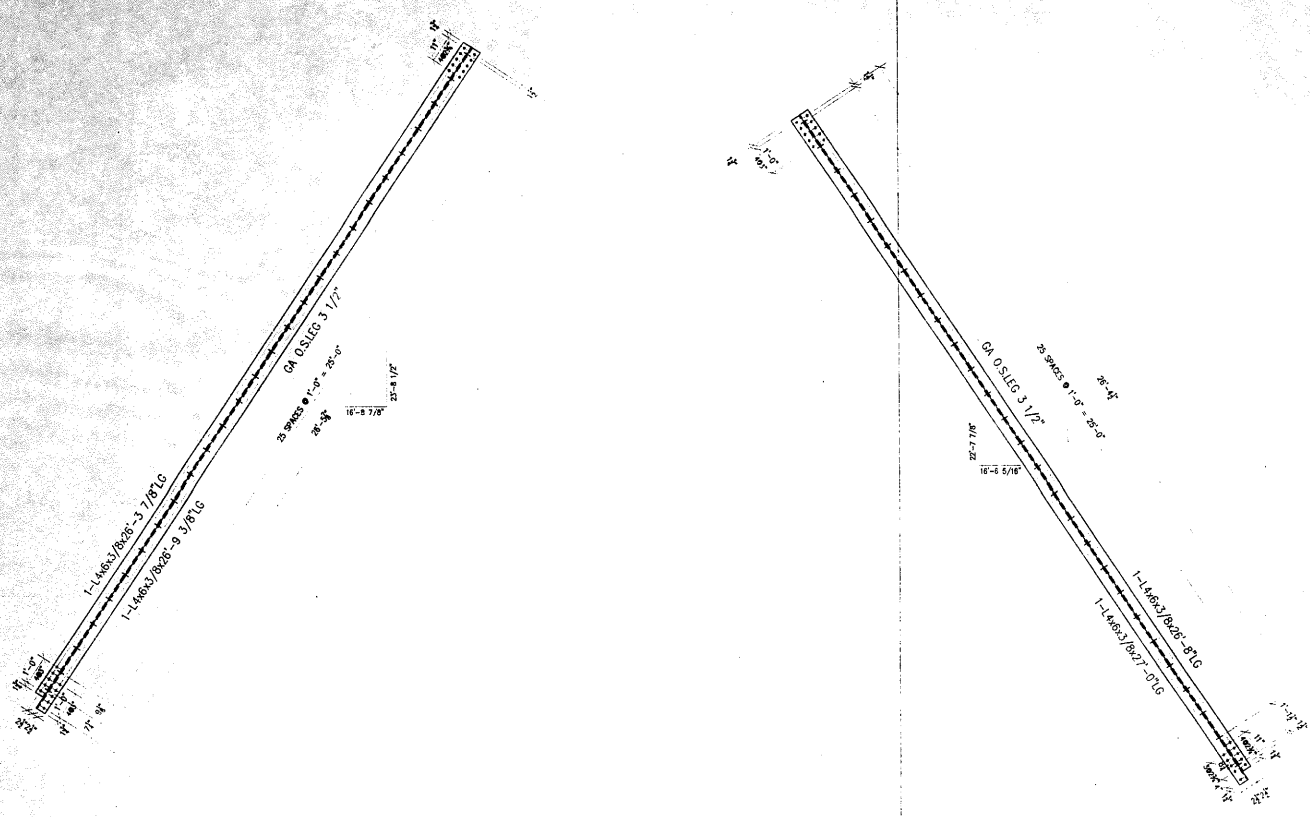
ERECTION DWG. E4 SCALE: 1/2"=1'

APPROVAL/REVIEW AUTHORITY:		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4"	
PLEASE REVIEW THIS DRAWING CAREFULLY. APPROVED FOR FABRICATION BY THE CONTRACT DOCUMENTS DIVISION OF THE STATE OF ILLINOIS. THIS DRAWING IS THE PROPERTY OF THE STATE OF ILLINOIS AND IS TO BE RETURNED TO THE CONTRACT DOCUMENTS DIVISION OF THE STATE OF ILLINOIS UPON COMPLETION OF THE PROJECT.		HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 U.N.	
UNLESS NOTED TO THE CONTRARY ON THIS DRAWING, WHEN IT IS REQUIRED FOR APPROVAL, IT SHALL BE APPROVED BY THE CONTRACT DOCUMENTS DIVISION OF THE STATE OF ILLINOIS.		WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	
NOI BY	REVISIONS	DATE	DRAWN BY: GAH
GAH	ISSUED FOR APPROVAL	7/23/02	DATE: 5/28/02
GAH	RE-ISSUED FOR APPROVAL	8/28/02	CHECKED BY:
GAH	REVISED QUANTITIES	8/28/02	DATE:
GAH			APPROVED:



D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE	STRUCTURAL BRACES	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	
	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO:
	LOCATION F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-8-OR-4-I-1	15
ENGINEER	WILL COUNTY, ILLINOIS	
	PARSONS BRINCKERHOFF	
	STRUCTURE # 098-9901	



2 - BOTTOM LATERALS - A16
(A46 R/L - L2-L3 WEST LEAF)

2 - TOP LATERALS - B16
(C46 R/L - L3-L4 WEST LEAF)

FIELD VERIFY

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	2	L4x6x3/8	26'-3 7/8"	A16	
3.	2	L4x6x3/8	26'-0 3/8"		
4.					
5.					
6.					
7.					
8.					
9.	2	L4x6x3/8	26'-6"	B16	
10.	2	L4x6x3/8	27'-0"		
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APPROVED
For Metal Fabrication and
Material Only
JAN 30 2004
Ralph E. Anderson
Supervisor of Bridge & Traffic Structures

GENERAL NOTES

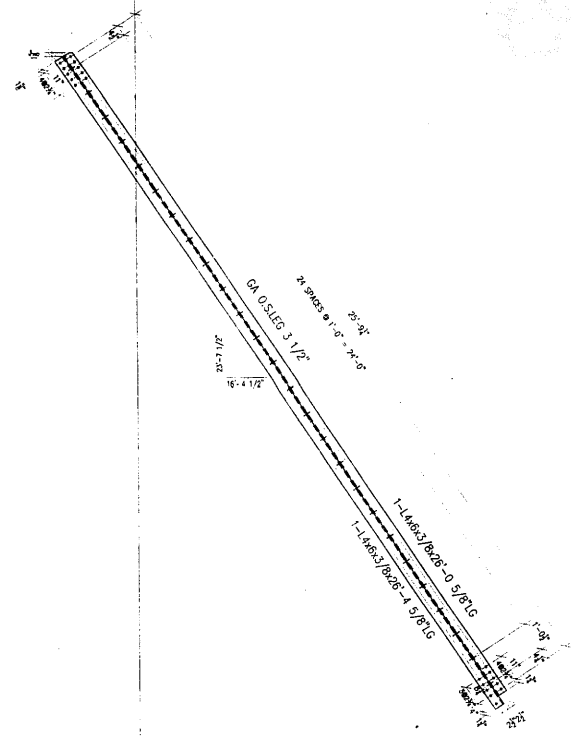
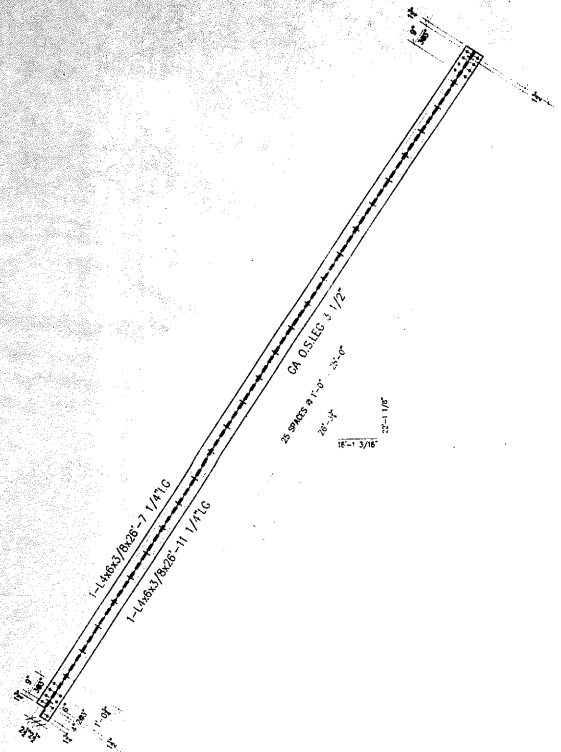
- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 ONLY. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

ERECTION DWG. E4 SCALE: 1/2"=1'

APPROVAL/REVIEW AUTHORITY:		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4"	
PLEASE REVIEW THIS DRAWING CAREFULLY. IF REVISIONS OR AMENDMENTS TO THE DESIGN OR THE CONTRACT DOCUMENTS ARE REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVISIONS AND FOR THE COST OF THE REVISIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF THE REVISIONS.		HOLES: 15/16" Ø WELDS = E70XX MAT'L = ASTM A 36 } U.N.	
UNLESS NOTED TO THE CONTRARY, ON THIS DRAWING, WHEN IT IS REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF THE REVISIONS.		WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	
NO.	BY	REVISIONS	DATE
1	GAH	ISSUED FOR APPROVAL	7/21/02
2	GAH	RE-ISSUED FOR APPROVAL	8/19/02
3	GAH	REVISED QUANTITIES	8/29/02
DRAWN BY: GAH		DATE: 5/28/02	
CHECKED BY:		DATE:	
APPROVED:		DATE:	



SHEET TITLE	STRUCTURAL BRACES	JOB NO.	
STRUCTURE	BRIDGE REHABILITATION	CONTRACT #	60193 PROJECT # C-91-366-96
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-8-DR-4-1	SHEET NO.	16
ENGINEER	PARSONS BRINCKERHOFF	STRUCTURE #	099-9901



ONE - TOP LATERALS -A17
(E46 L - L4-L5 WEST LEAF)

2 - BOTTOM LATERALS -B17
(D46 R/L - L3-L4 WEST LEAF)

FIELD VERIFY

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	1	L4x8x3/8	26'-7 1/4"	A17	
3.	1	L4x8x3/8	26'-11 1/4"		
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.	2	L4x8x3/8	28'-0 5/8"	B17	
13.	2	L4x8x3/8	28'-4 5/8"		
14.					
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APPROVED
For Release, Distribution and
Fabrication Only
JAN 3 0 2004
Ralph E. Anderson
Supervisor of Bridge & Traffic Structures

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS #146 ONLY, 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

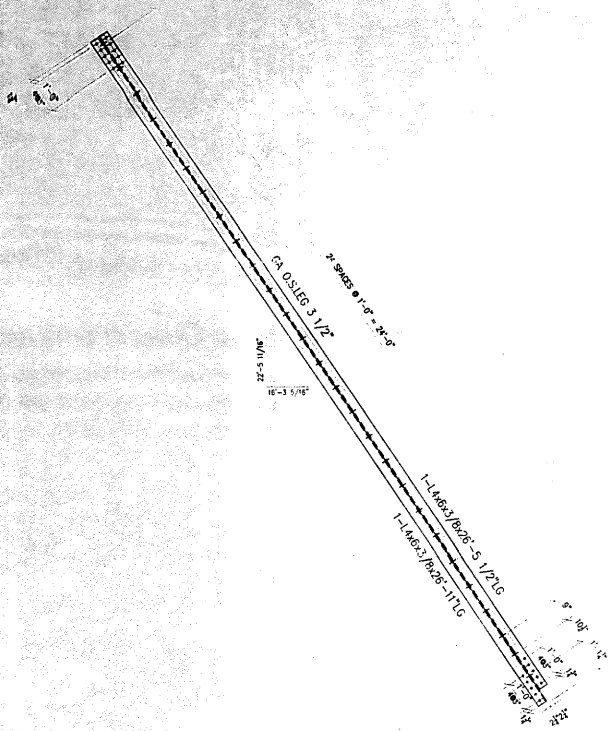
ERECTION DWG. E4 SCALE: 1/2"=1'

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. I HEREBY RELEASE, DISTRIBUTE AND FABRICATE THE STEEL STRUCTURE SHOWN ON THIS DRAWING FOR THE PROJECT AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUALITY OF THE FABRICATION AND THE STRUCTURE SHALL BE CONSIDERED AS ACCEPTED BY THE CONTRACTOR.		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX (MIL) = ASTM A 36 } U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES		
NO	BY	REVISIONS	DATE	DRAWN BY: GAH
△	GAH	ISSUED FOR APPROVAL	7/23/02	DATE: 5/28/02
△	GAH	RE-ISSUED FOR APPROVAL	8/19/02	CHECKED BY:
△	GAH	REVISED QUANTITIES	8/29/02	DATE:
△				APPROVED:



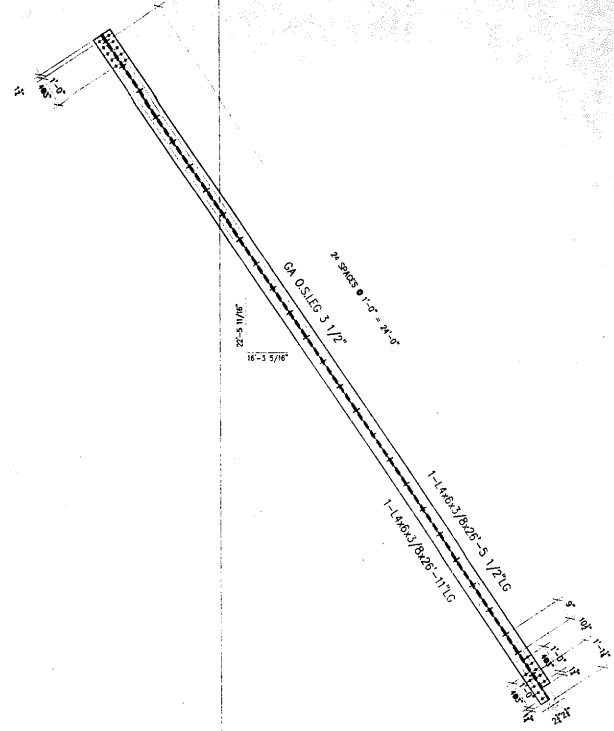
D'D CONSTRUCTION, INC.
GENERAL CONTRACTOR
1485 SO. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE	STRUCTURAL BRACES	JOB NO:	
STRUCTURE	BRIDGE REHABILITATION	SHEET NO:	17
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-4-1-1		
ENGINEER	PARSONS BRINCKERHOFF STRUCTURE # 099-9901		



2 - TOP LATERALS -A18
(F42 R/L - L1-L2 WEST LEAF)

FIELD VERIFY



ONE - TOP LATERALS -B18
(G42 L - L1-L2 WEST LEAF)

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	2	4x6x3/8	26'-5 1/2"	A18	
3.	2	4x6x3/8	26'-11"		
4.					
5.					
6.					
7.					
8.					
9.	1	4x6x3/8	26'-5 1/2"	B18	
10.	1	4x6x3/8	26'-11"		
11.					
12.					
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APPROVED
For Steel Fabrication and
Installation Only
JAN 30 2004
Ralph E. Anderson
Regional Manager of Bridge & Steel Structures

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M148 ONLY, 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

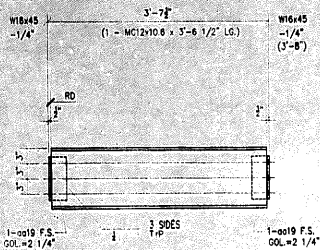
ERECTION DWG. E4 SCALE: 1/2"=1'

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. I HEREBY CERTIFY THAT I AM THE DESIGNER OF THE STRUCTURE AND I AM RESPONSIBLE FOR THE DESIGN AND THE CONSTRUCTION OF THE STRUCTURE. THIS IS THE RESPONSIBILITY OF THE DESIGNER. I HAVE REVIEWED THIS DRAWING AND I HAVE APPROVED IT FOR CONSTRUCTION. I HAVE REVIEWED THIS DRAWING AND I HAVE APPROVED IT FOR CONSTRUCTION. I HAVE REVIEWED THIS DRAWING AND I HAVE APPROVED IT FOR CONSTRUCTION.		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX (MIL) ASTM A 36 WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES } U.N.		
NO	BY	REVISIONS	DATE	DRAWN BY: GAH
△	GAH	ISSUED FOR APPROVAL	7/23/02	DATE: 5/28/02
△	GAH	RE-ISSUED FOR APPROVAL	8/19/02	CHECKED BY:
△	GAH	REVISED QUANTITIES	8/29/02	DATE:
△				APPROVED:

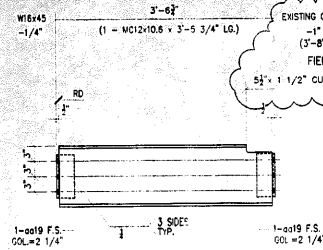


D CONSTRUCTION, INC.
GENERAL CONTRACTOR
1435 S.D. BROADWAY
COAL CITY, ILLINOIS 60416

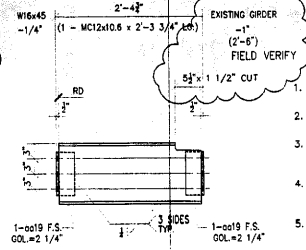
SHEET TITLE	STRUCTURAL BRACES	JOB NO.	
STRUCTURE	BRIDGE REHABILITATION	SHEET NO.	
LOCATION	CONTRACT # 50193 PROJECT # C-91-365-96 FAP. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-8-D8-4-I-1		18
ENGINEER	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF STRUCTURE # 099-9901		



16 - BEAM - A19
REFERENCE SHEET # 8



4 - BEAM AS SHOWN - B19
4 - BEAM OPPOSITE - D19
REFERENCE SHEET # 8



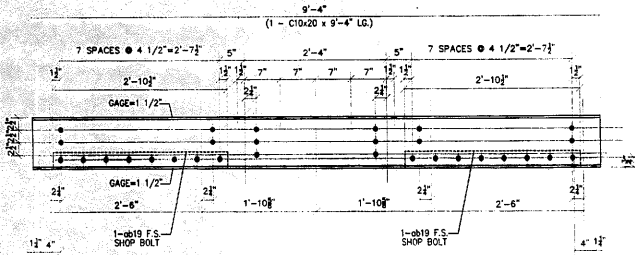
2 - BEAM AS SHOWN - E19
2 - BEAM OPPOSITE - F19
REFERENCE SHEET # 8

GENERAL NOTES

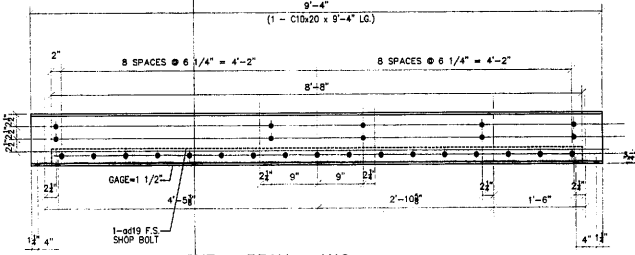
- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

NO	TOTAL	SHAPE	LENGTH	MARK	REMARKS
2	16	MC12x10.6	3'-6 1/2"	A19	
3	32	L 4"x4"x1/2"	0'-8 1/2"	qd19	
4					
5					
6	4	MC12x10.6	3'-5 3/4"	B19	
7	8			qd19	
8					
9					
10	4	MC12x10.6	3'-5 3/4"	D19	
11	8			qd19	
12					
13					
14	2	MC12x10.6	2'-3 3/4"	E19	
15	4			qd19	
16					
17					
18	2	MC12x10.6	2'-3 3/4"	F19	
19	4			qd19	
20					
21					
22	ONE	C10x20	9'-4"	G19	
23	2	L 3"x2 1/2"x5/16"	2'-10 1/2"	qd19	
24					
25					
26	ONE	C10x20	9'-4"	H19	
27	ONE	L 3"x2 1/2"x5/16"	8'-8"	qd19	
28					
29					
30	2	L 3 1/2"x3"x5/16"	4'-0 1/4"	K19	
31					
32					
33	ONE	ANCHORAGE GIRDER	--	N19	
34	2	L 4"x3 1/2"x3/8"	1'-1 1/2"	qd19	
35	ONE	PLATE 3/4"x8 3/4"	3'-6"	pm19	ASO NTR
36	ONE	PLATE 13/16"x6 3/8"	5'-9 3/4"	pm19	ASO NTR
37	ONE	PLATE 3/4"x8 3/4"	5'-9 3/4"	pm19	ASO NTR
38	6	PLATE 3/4"x3 3/4"	1'-4 3/8"	pm19	ASO NTR
39					
40	ONE	ANCHORAGE GIRDER	--	P19	
41	2			qd19	
42	ONE			pm19	ASO NTR
43	ONE			pm19	ASO NTR
44	ONE			pm19	ASO NTR
45	6			pm19	ASO NTR
46					
47	4	L 6"x6"x3/8"	13'-0"	T19	
48	48	3/4" STUD ANCHOR	4"	ma19	
49					
50	4	L 6"x6"x3/8"	13'-0"	V19	
51	48			ma19	

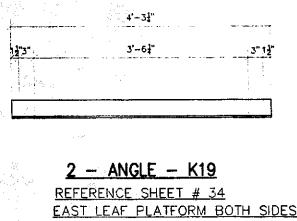
APPROVED
For Main Discussion and Material City
JAN 3 0 2004
Ralph E. Anderson
Engineer of Bridge & Traffic Structures



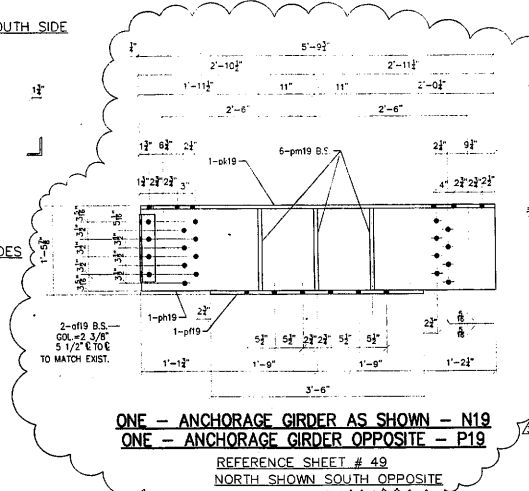
ONE - BEAM - G19
REFERENCE SHEET # 34
EAST LEAF PLATFORM SOUTH SIDE



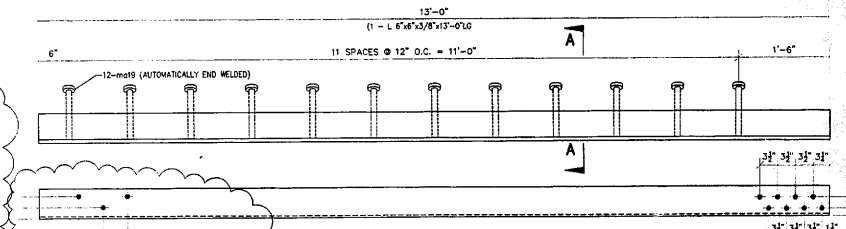
ONE - BEAM - H19
REFERENCE SHEET # 34
EAST LEAF PLATFORM NORTH SIDE



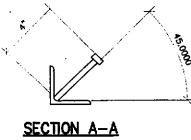
2 - ANGLE - K19
REFERENCE SHEET # 34
EAST LEAF PLATFORM BOTH SIDES



ONE - ANCHORAGE GIRDER AS SHOWN - N19
ONE - ANCHORAGE GIRDER OPPOSITE - P19
REFERENCE SHEET # 49
NORTH SHOWN SOUTH OPPOSITE



4 - EMBEDDED ANGLE AS SHOWN - T19
4 - EMBEDDED ANGLE OPPOSITE - V19
REFERENCE SHEET # 49



FIELD VERIFY ALL

APPROVAL/REVIEW AUTHORITY:
I, RALPH E. ANDERSON, ENGINEER OF BRIDGE & TRAFFIC STRUCTURES, HEREBY CERTIFY THAT THE DESIGN AND CONSTRUCTION OF THE STRUCTURE SHOWN ON THIS DRAWING IS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR BRIDGE AND TRAFFIC STRUCTURES, EDITION 1995, AND THE DESIGN AND CONSTRUCTION OF THE STRUCTURE SHOWN ON THIS DRAWING IS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR BRIDGE AND TRAFFIC STRUCTURES, EDITION 1995, AND THE DESIGN AND CONSTRUCTION OF THE STRUCTURE SHOWN ON THIS DRAWING IS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR BRIDGE AND TRAFFIC STRUCTURES, EDITION 1995.

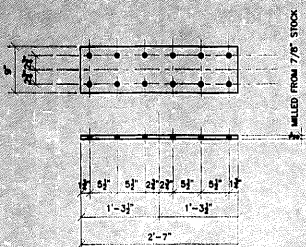
PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4"
HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 U.N.
WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES

NO BY REVISIONS DATE DRAWN BY: GAH
GAH ISSUED FOR APPROVAL 7/23/02 DATE: 6/30/02
GAH RE-ISSUED FOR PERMANENT 9/19/02 CHECKED BY:
GAH REVED FOR COMMENTS 9/30/02 DATE:
APPROVED:

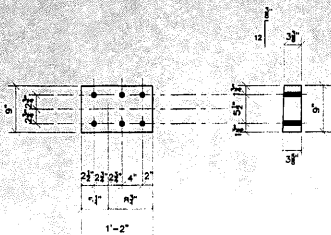
D' CONSTRUCTION INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

REPAIR DETAILS		JOB NO:
SHEET TITLE	BRIDGE REHABILITATION	
STRUCTURE	CONTRACT # 00193 PROJECT # C-91-368-96	SHEET NO:
LOCATION	E.P. ROUTE 102 (UNION ST) ROBT STREET SECTION II-B-DK-4-1-1	19
ENGINEER	WILL COUNTY, ILLINOIS	
ARCHITECT	PARSONS BRINCKERHOFF STRUCTURE # 099-8901	

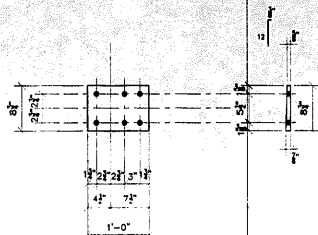
ERECTION DWG. E2 (UNO) SCALE: 1"=1'



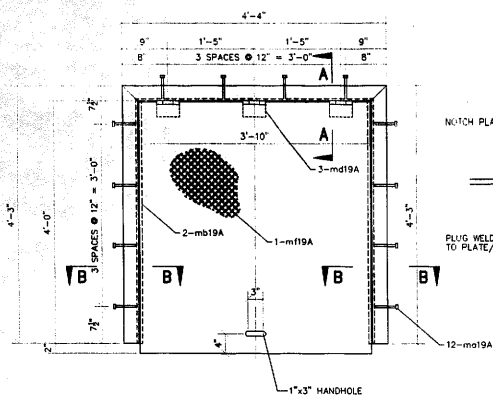
2 - BEARING PLATE - A19A
REFERENCE SHEET # 50 DETAIL 4



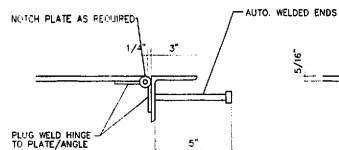
2 - BEVELED PLATE - B19A
REFERENCE SHEET # 50 DETAIL 3



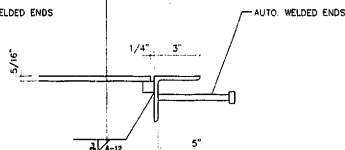
2 - BEVELED PLATE - D19A
REFERENCE SHEET # 50 DETAIL 3



2 - ACCESS OPENING FRAME - E19A
REFERENCE SHEET # 51



SECTION A-A



SECTION B-B

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BULGED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

NO.	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1					
2	2	PLATE 7/8"x0"	2'-7"	A19A	MILL TO SIZE
3					
4					
5					
6	2	PLATE 3/8"x0"	1'-2"	B19A	MILL TO SIZE
7					
8					
9					
10	2	PLATE 7/8"x6 3/4"	1'-0"	D19A	MILL TO SIZE
11					
12					
13					
14	2	ACCESS OPENING	--	L19A	
15	4	L 3"x3"x3/8"	4'-3"		
16	2	L 3"x3"x3/8"	4'-4"		
17	24	3/8" STUD ANCHOR	0'-8"	ma19A	
18	4	BAR 3/4"x3/4"	0'-4"	mb19A	
19	6	4"x2"x1/8" S.S. HINGE	--	md19A	
20	2	5/16" CHORD PLATE x 45/17"	4'-2"	mt19A	
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
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51					

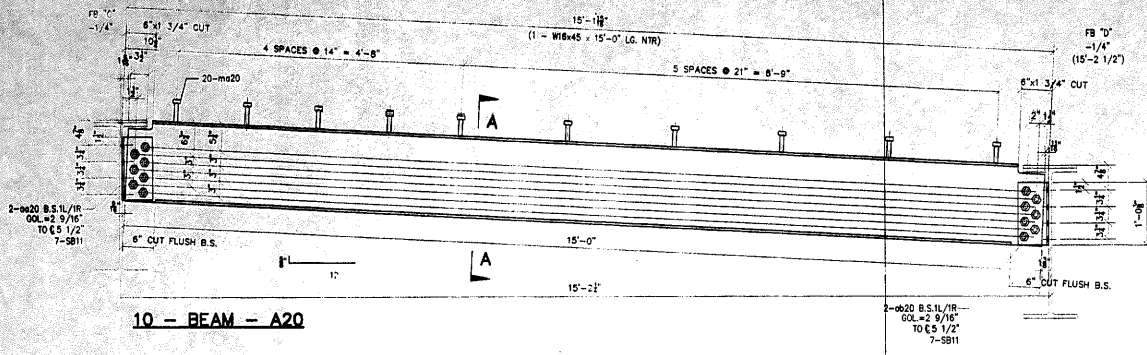
APPROVED
For Main Dimensions and Materials Only
JAN 3 0 2004
Ralph E. Anderson
Engineer of Design & Trade Services

SCALE: 1"=1'

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. IF YOU HAVE ANY COMMENTS, CONTACT THE DESIGN ENGINEER OR THE CONTRACTOR. SIGNATURE, DATE, AND TITLE ARE REQUIRED FOR ALL APPROVALS. THIS IS THE RESPONSIBILITY OF THE APPROVAL. APPROVALS MUST BE IN THE MARGINS OF THE DRAWING. APPROVALS MUST BE IN THE MARGINS OF THE DRAWING. APPROVALS MUST BE IN THE MARGINS OF THE DRAWING.	PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" INELDS = E70XXI WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	WELDS: 1/4" MATT=ASTM A 36 } U.S.
NO. BY REVISIONS DATE DRAWN BY: GAH	GAH ISSUED FOR APPROVAL 7/23/02 DATE: 6/30/02	
GAH RE-ISSUED FOR APPROVAL 8/16/02 CHECKED BY:	GAH FINAL ISSUE 1/19/04 DATE:	
	APPROVED:	

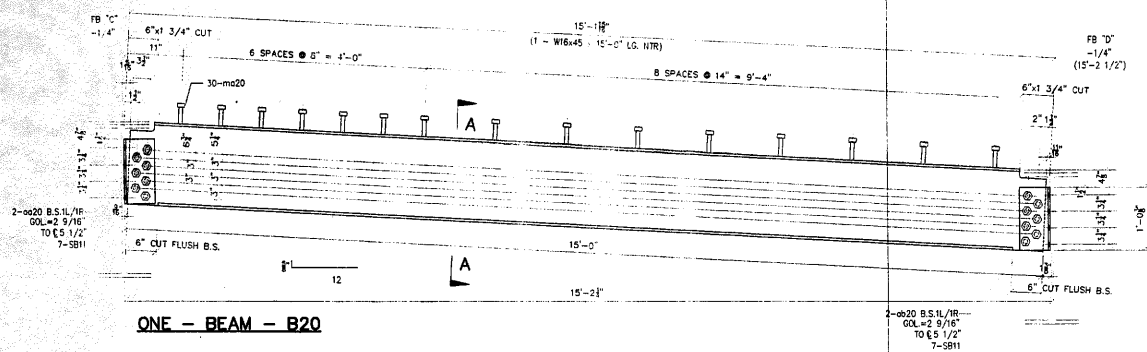
D'D CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE	REPAIR DETAILS	JOB NO:
STRUCTURE	BRIDGE REMEDIATION	
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO:
ENGINEER	F.A.P. ROUTE 112 (LINKS ST RUBY STREET) SECTION W-B-DR-4-1-1	19A
ARCHITECT	WILL COUNTY, ILLINOIS	
	PARSONS BRINCKERHOFF	
	STRUCTURE # 099-9901	

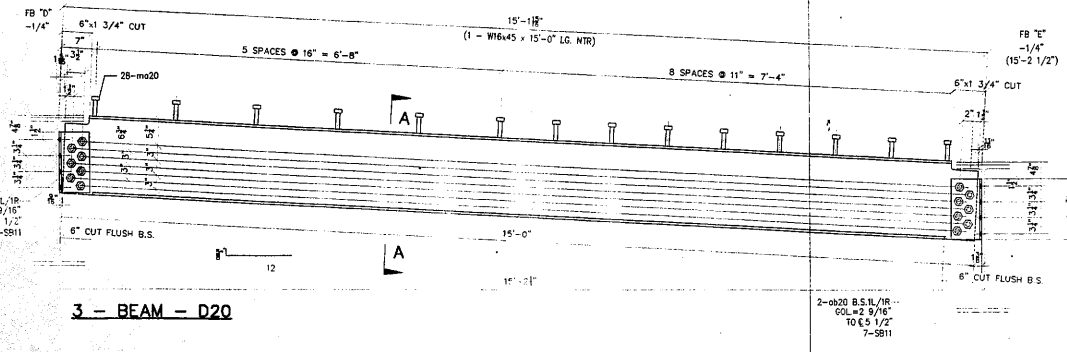


10 - BEAM - A20

SECTION A-A



ONE - BEAM - B20



3 - BEAM - D20

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.					
3.					
4.					
5.					
6.					
7.	10	W16x45	15'-0"	A20	NTR
8.	16	L 6"x4"x3/8"	1'-0 3/8"	ø20	
9.	16	L 6"x4"x3/8"	1'-0 3/8"	ø20	
10.	200	3/4" STUD	0'-4"	m20	
11.	140	7/8" A325 BOLTS	0'-2 3/4"	SB11	
12.					
13.					
14.					
15.	ONE	W16x45	15'-0"	B20	NTR
16.	16			ø20	
17.	16			ø20	
18.	30			m20	
19.	14			SB11	
20.					
21.					
22.					
23.	3	W16x45	15'-0"	D20	NTR
24.	16			ø20	
25.	16			ø20	
26.	84			m20	
27.	42			SB11	
28.					
29.					
30.					
31.					
32.					
33.					
34.					
35.					
36.					
37.					
38.					
39.					
40.					

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For Plans, Specifications and
Materials Only
JAN 8 2001
Ralph E. Anderson
Supervisor of Bridge & Traffic Structures

FIELD VERIFY ALL

GENERAL NOTES

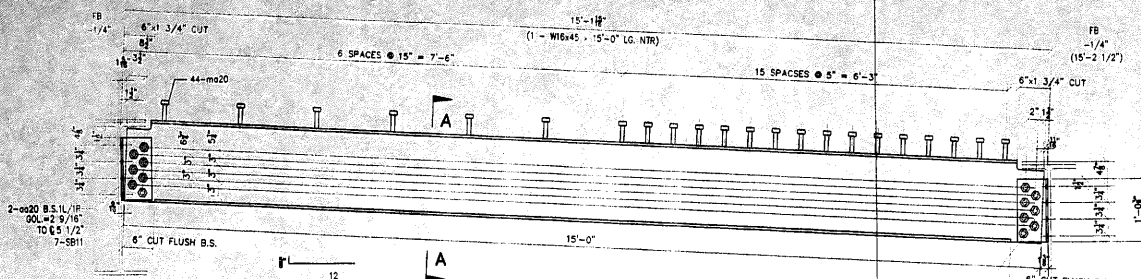
- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

ERECTION DWG. E3 SCALE: 1"=1'

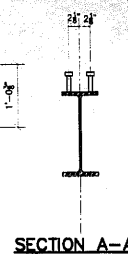
APPROVAL/REVIEW AUTHORITY: <small>IN CASE REVIEW THIS DRAWING CAREFULLY FOR CONFORMANCE WITH THE SPECIFICATIONS AND THE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES AND STRUCTURES.</small>	PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX (MATL=ASTM A 36) U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
NO. BY REVISIONS DATE DRAWN BY: GAH GAH ISSUED FOR APPROVAL 7/23/00 DATE: 6/12/02 GAH RE-ISSUED FOR APPROVAL 8/19/00 CHECKED BY: GAH REVISED PER COMMENTS 8/29/00 DATE: APPROVED:	

GP 'D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

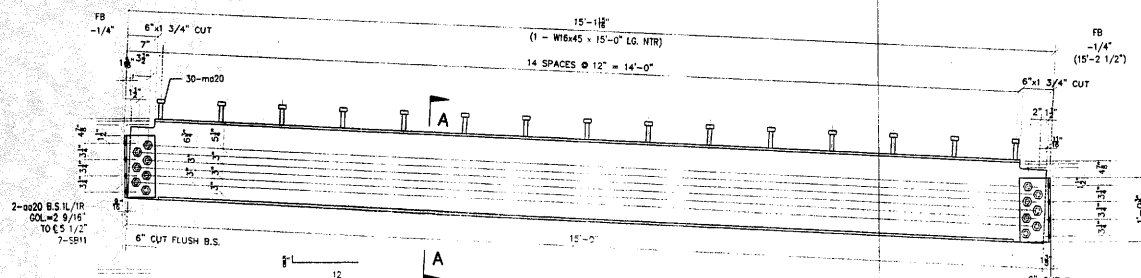
SHEET TITLE	BEAM DETAILS	JOB NO.
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO.
ENGINEER	F.A.P. ROUTE 112 (ILLINOIS 53 RD) STREET SECTION M-B-DR-4-I-I	
ARCHITECT	MILL COUNTY, ILLINOIS	
	PARSONS BRINCKERHOFF	
	STRUCTURE # 099-9901	



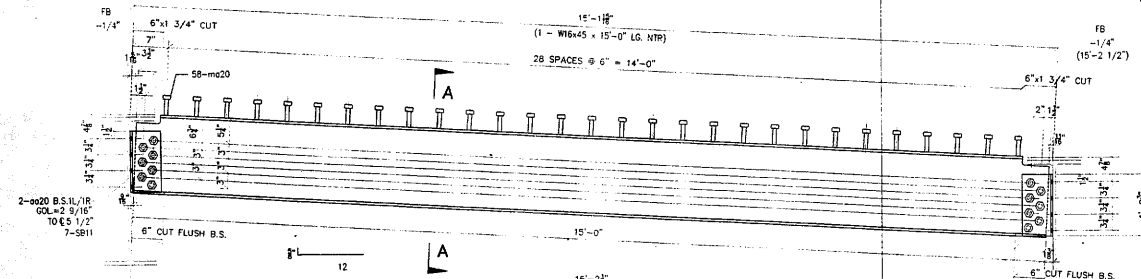
ONE - BEAM - A21



SECTION A-A



3 - BEAM - B21



ONE - BEAM - D21

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.					
3.					
4.					
5.					
6.					
7.	ONE	W16x45	15'-0"	A21	NTR
8.	18	L 6" x 3/8"	1'-0 3/8"	oa20	
9.	18	L 6" x 3/8"	1'-0 3/8"	ob20	
10.	44	3/4" # STUD	0'-4"	ma20	
11.	14	7/8" # A325 BOLTS	0'-2 3/4"	SB11	
12.					
13.					
14.					
15.					
16.	3	W16x45	15'-0"	B21	NTR
17.	3			oa20	
18.	30			ob20	
19.	42			ma20	
20.				SB11	
21.					
22.					
23.	ONE	W16x45	15'-0"	D21	NTR
24.	18			oa20	
25.	18			ob20	
26.	58			ma20	
27.	14			SB11	
28.					
29.					
30.					
31.					
32.					
33.					
34.					
35.					
36.					
37.					
38.					
39.					
40.					

FIELD VERIFY ALL

APPROVED
For Metal Fabrication and
Materials Only
JAN 3 0 2004
Ralph E. Anderson
Regional Manager & Traffic Manager

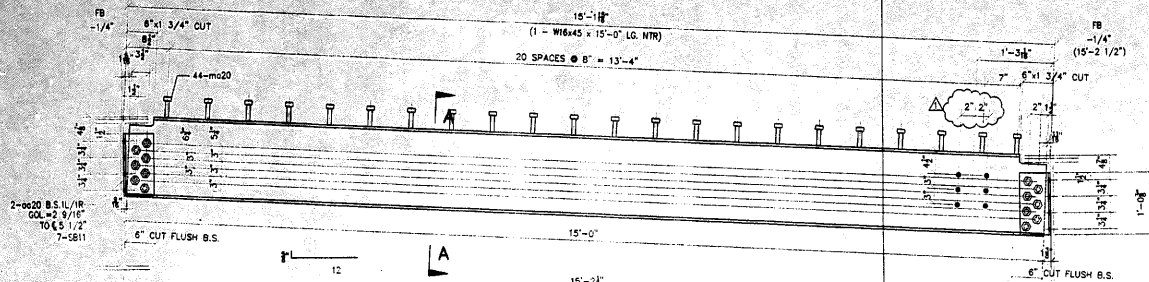
GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M145 CALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

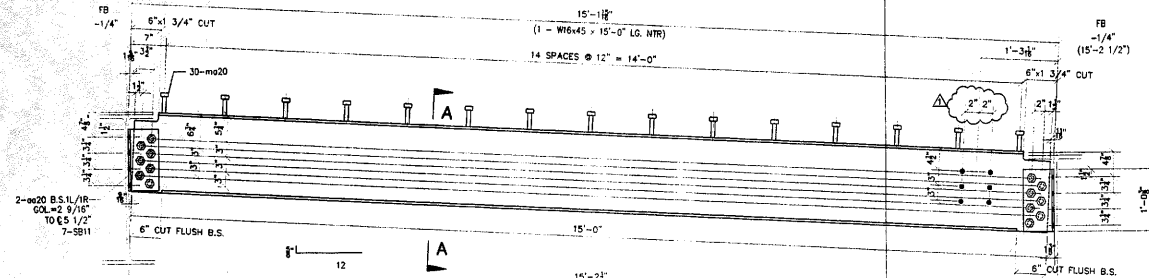
<p>APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY FOR ACCURACY AND COMPLETENESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF THIS DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF THIS DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF THIS DRAWING.</p>	<p>PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XXI MAT=ASTM A 36 } U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES</p>
<p>NO. BY REVISIONS DATE DRAWN BY: GAH GAH ISSUED FOR APPROVAL 1/20/02 DATE: 5/12/02 GAH RE-ISSUED FOR APPROVAL 8/16/02 CHECKED BY: GAH REVISED PER COMMENTS 8/20/02 DATE:</p>	<p>APPROVED:</p>

D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

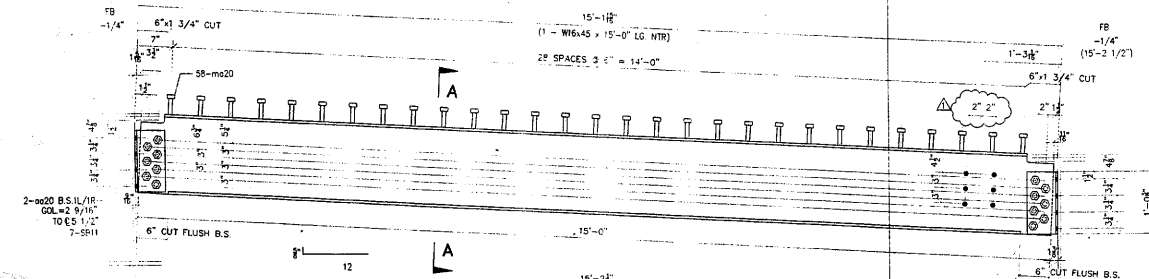
ERECTION DWG. E3 SCALE: 1"=1'		JOB NO:
SHEET TITLE	BEAM DETAILS	
STRUCTURE	BRIDGE REHABILITATION CONTRACT # 60193 PROJECT # C-91-366-98	SHEET NO:
LOCATION	E.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION W-9-DR-4-1-1 WILL COUNTY, ILLINOIS	21
ENGINEER	PARSONS BRINCKERHOFF	
ARCHITECT	STRUCTURE # 099-9901	



7 - BEAM - A22



3 - BEAM - B22



ONE - BEAM - D22

SECTION A-A

FIELD VERIFY ALL

LINE	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1					
2					
3					
4					
5					
6					
7	7	W16x45	15'-0"	A22	NTR
8	14	L 6"x4 1/2"x 3/8"	1'-0" 3/8"	aa20	
9	15	L 6"x4 1/2"x 3/8"	1'-0" 3/8"	aa20	
10	308	3/4" STUD	0'-4"	ma20	
11	98	7/8" A325 BOLTS	0'-2 3/4"	SB11	
12					
13					
14					
15	3	W16x45	15'-0"	B22	NTR
16	6			aa20	
17	30			aa20	
18	30			ma20	
19	42			SB11	
20					
21					
22					
23	ONE	W16x45	15'-0"	D22	NTR
24	1			aa20	
25	1			aa20	
26	58			ma20	
27	14			SB11	
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

APPROVED
 For Fabrication and Erection
 Only
 JAN 3 0 2004
 Ralph E. Anderson
 Engineer of Bridge & Traffic Structures

GENERAL NOTES

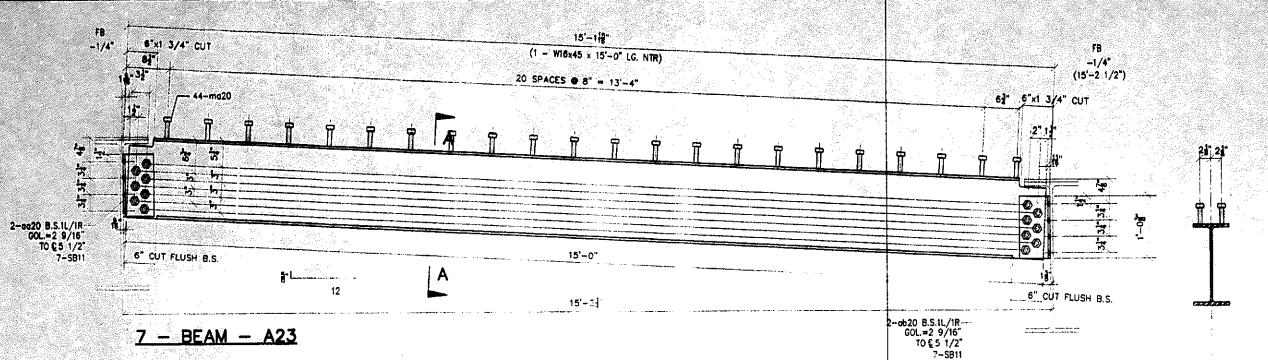
- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
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- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

ERECTION DWG. E8 SCALE: 1"=1'

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. IF REVISIONS ARE MADE, THE DRAWING SHALL BE RE-APPROVED. FOR THE RECORD OF THE APPROVAL/REVIEW AUTHORITY. REVISIONS TO BE APPROVED BY THE DESIGNER, ENGINEER OR ARCHITECT. THE ORIGINAL SET OF DRAWINGS SHALL BE KEPT IN THE OFFICE OF THE DESIGNER, ENGINEER OR ARCHITECT. THE ORIGINAL SET OF DRAWINGS SHALL BE KEPT IN THE OFFICE OF THE DESIGNER, ENGINEER OR ARCHITECT. IF IT IS DETERMINED THAT THE ORIGINAL SET OF DRAWINGS IS NOT CORRECT, THE ORIGINAL SET OF DRAWINGS SHALL BE KEPT IN THE OFFICE OF THE DESIGNER, ENGINEER OR ARCHITECT.	PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 } U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
NO. BY REVISIONS DATE/DRAWN BY: GHI GHI REVISED HOLE SPACING 6/20/02 DATE: 6/12/02 GHI ISSUED FOR APPROVAL 7/2/02 CHECKED BY: GHI REVISED PER COMMENTS 8/26/02 APPROVED:	

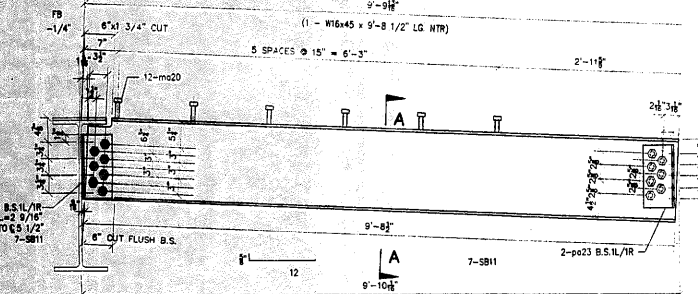
D' CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1488 SO. BROADWAY
 COAL CITY, ILLINOIS 60415

SHEET TITLE	BEAM DETAILS	JOB NO.
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO.
ENGINEER	EXP. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-9-06-4-I-1	22
ARCHITECT	WILL COUNTY, ILLINOIS	
	PARSONS BRINCKERHOFF	
	STRUCTURE # 099-9901	

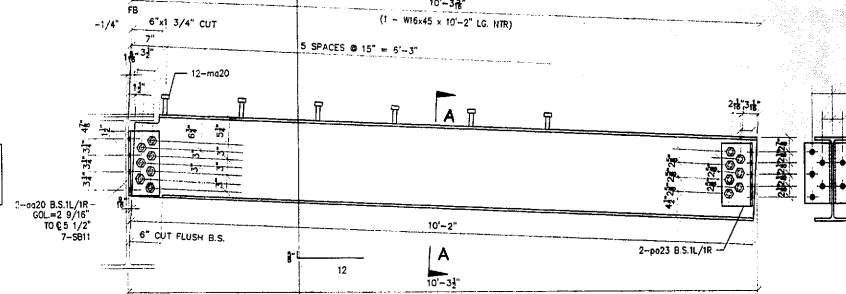


7 - BEAM - A23

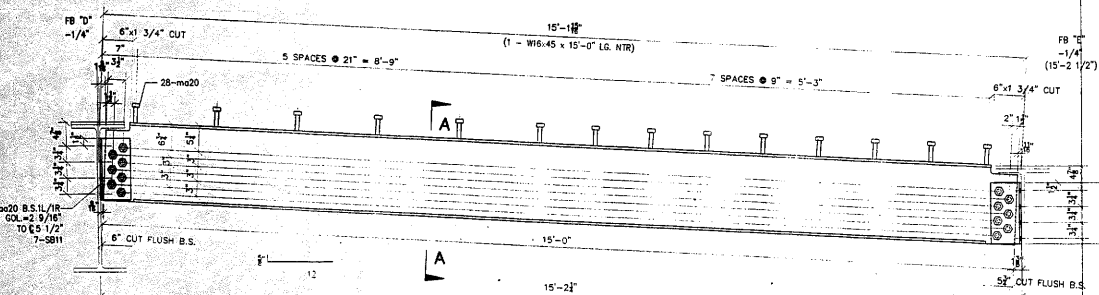
SECTION A-A



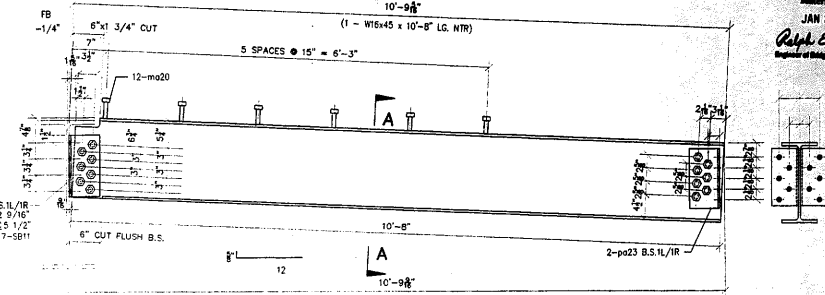
ONE - BEAM - B23



ONE - BEAM - D23



7 - BEAM - F23



ONE - BEAM - E23

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1					
2					
3	7	W16x45	15'-0"	A23	NTR
4	2	L 6"x4 5/8"	1'-0 3/8"	oa20	
5	2	L 6"x4 5/8"	1'-0 3/8"	oa20	
6	308	3/4" # STUD	0'-4"	ma20	
7	96	7/8" # A325 BOLTS	0'-2 3/4"	SB11	
8					
9					
10					
11	ONE	W16x45	9'-8 1/2"	B23	NTR
12	1			oa20	
13	1	PLATE 3/8" x 10 3/4"	1'-0"	pa23	BENT PLATE
14	12			ma20	
15	7			SB11	
16					
17					
18					
19	ONE	W16x45	10'-2"	D23	NTR
20	1			oa20	
21	1			pa23	
22	12			ma20	
23	7			SB11	
24					
25					
26					
27	ONE	W16x45	10'-8"	E23	NTR
28	1			oa20	
29	1			pa23	
30	12			ma20	
31	7			SB11	
32					
33					
34					
35					
36	7	W16x45	15'-0"	F23	NTR
37	1			oa20	
38	1			oa20	
39	196			ma20	
40	98			SB11	

APPROVED
For Metal Detail Only
JAN 8 0 2004
Ralph E. Anderson
Regional Manager of Bridge & Traffic Structures

FIELD VERIFY ALL

- GENERAL NOTES**
- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
 - ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
 - BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
 - STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
 - IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
 - CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BLASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
 - NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"
- SECTION DWG. E3 SCALE: 1"=1'

APPROVAL/REVIEW AUTHORITY:
PLEASE REVIEW THIS DRAWING CAREFULLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES EXISTING ON THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES EXISTING ON THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES EXISTING ON THE PROJECT.

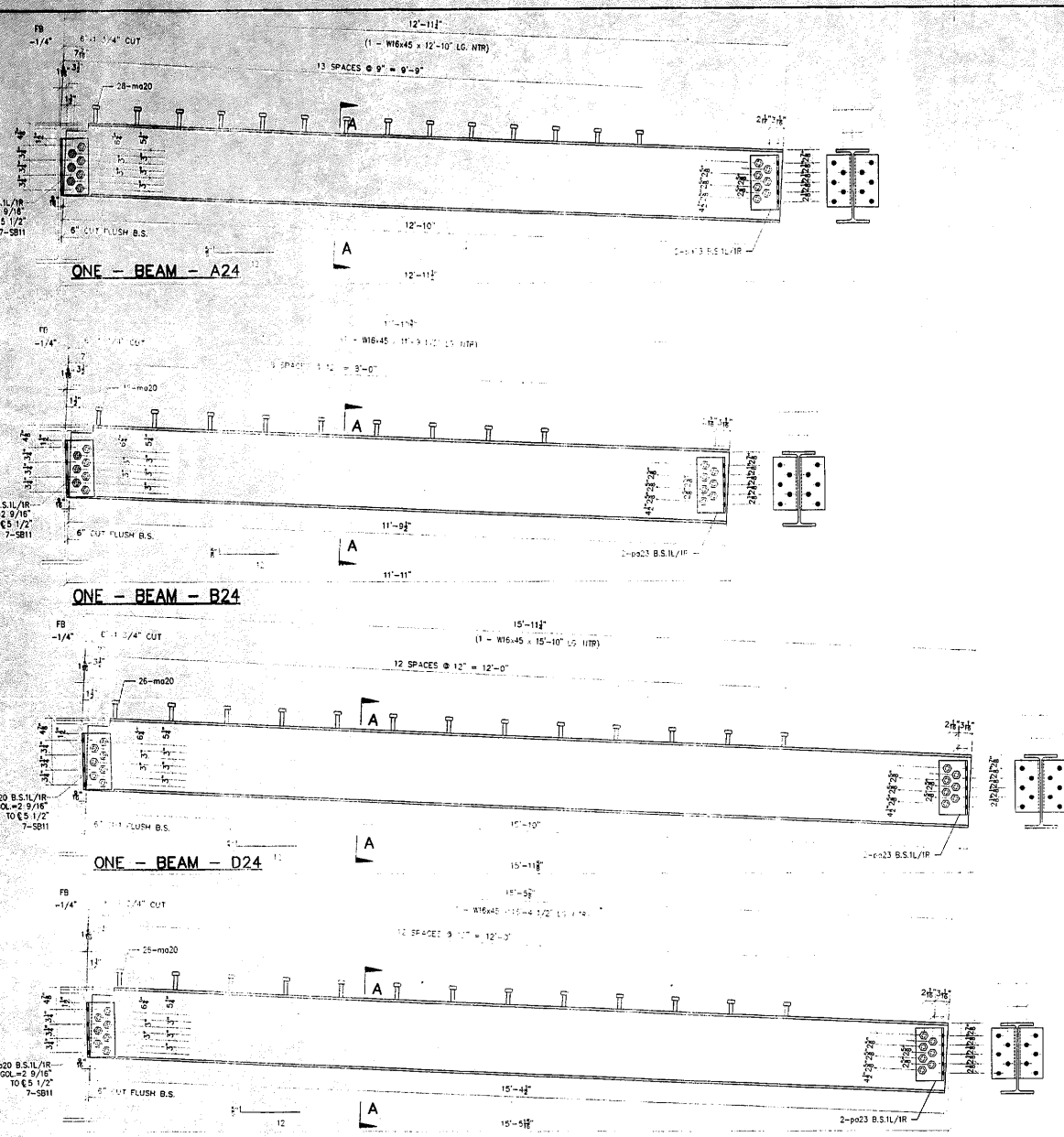
PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4"
HOLES: 15/16" WELDS = E70XX [MATERIAL=ASTM A 36] U.N.
WIRE FOR SHIPMENT: ALL LOOSE CLIP ANGLES

NOI BY: _____ REVISIONS: _____ DATE (DRAWN BY): GAH
 GAH ISSUED FOR APPROVAL: 1/23/04 DATE: 8/12/02
 GAH RE-ISSUED FOR APPROVAL: 8/19/02 CHECKED BY: _____
 GAH REVISED PER COMMENTS: 8/19/02 DATE: _____
 APPROVED: _____



D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE	BEAM DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	SHEET NO:
LOCATION	CONTRACT # 60193 PROJECT # C-91-365-96 F.A.P. ROUTE 112 (ILMONS SJ RUBY STREET) SECTION M-8-28-4-1	
ENGINEER	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF	
ARCHITECT	STRUCTURE # 099-9901	



FIELD VERIFY ALL

SECTION A-A

NO.	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.					
3.					
4.					
5.					
6.					
7.	ONE	W16x45	12'-10"	A24	NTR
8.	1	L 6x4x3/8	1'-0 3/8"	aa20	
9.	1	PLATE 3/8x10 3/4"	1'-0"	pa23	BENT PLATE
10.	28	3/4" STUD	0'-4"	ma20	
11.	14	7/8" A325 BOLTS	0'-2 3/4"	SB11	
12.					
13.					
14.					
15.	ONE	W16x45	11'-9 1/2"	B24	NTR
16.	1			aa20	
17.	1			pa23	
18.	18			ma20	
19.	14			SB11	
20.					
21.					
22.					
23.	ONE	W16x45	15'-10"	D24	NTR
24.	1			aa20	
25.	1			pa23	
26.	26			ma20	
27.	14			SB11	
28.					
29.					
30.					
31.	ONE	W16x45	15'-4 1/2"	E24	NTR
32.	1			aa20	
33.	1			pa23	
34.	26			ma20	
35.	14			SB11	
36.					
37.					
38.					
39.					
40.					

APPROVED
For Plans Preparation and
Materials Only
JAN 30 2004
Ralph E. Anderson
Engineer of Bridge & Traffic Structures

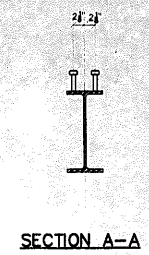
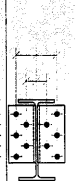
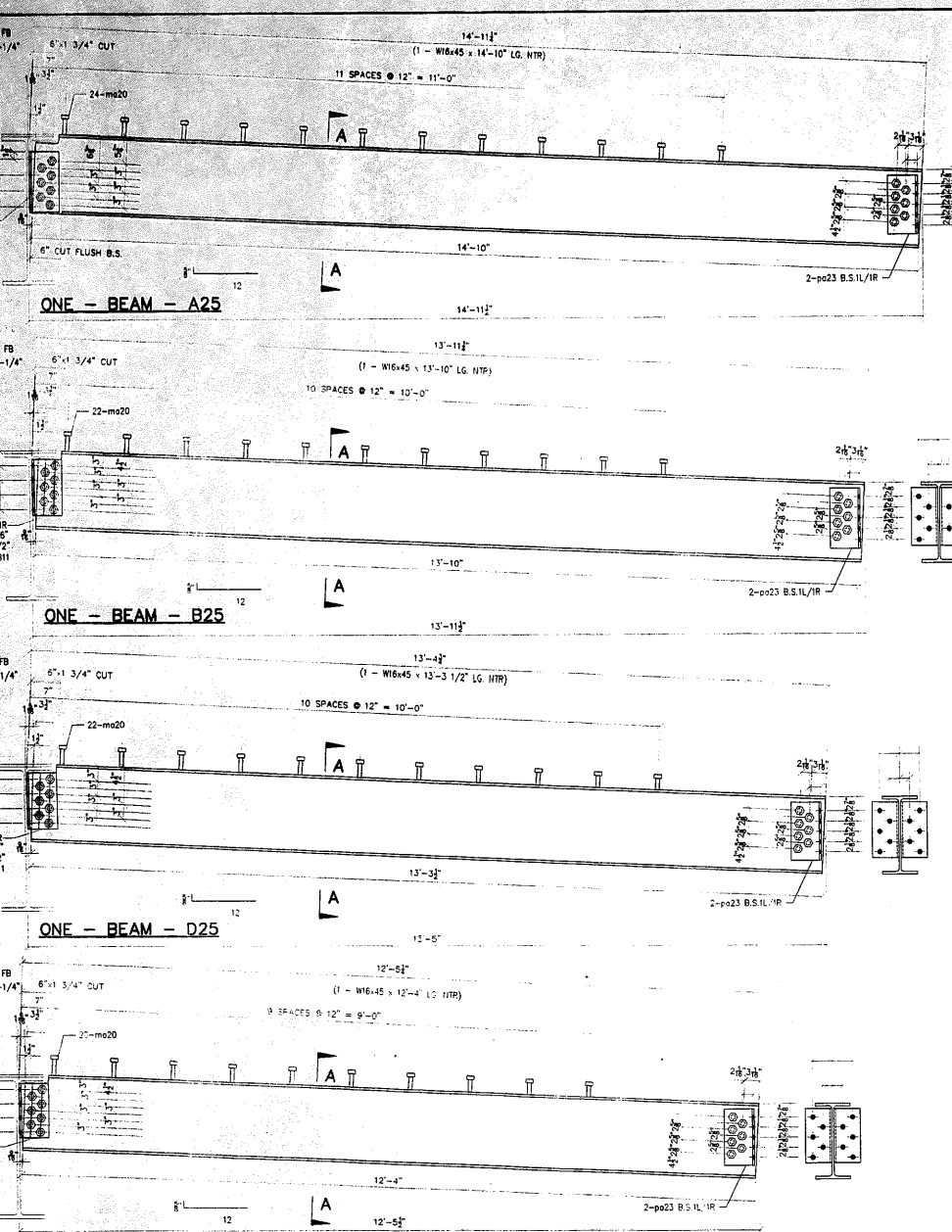
GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M145 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAY BE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE OPENED SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H-5.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER.
- NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. HOLES 15/16" WELDS = E70XXI MATL=ASTM A 36 WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES		U.N. DATE DRAWN BY: GAH DATE: 6/12/02 CHECKED BY: DATE:
NO. BY REVISIONS GAH ISSUED FOR APPROVAL 1/23/02 GAH RE-ISSUED FOR APPROVAL 8/19/02 GAH REVISED PER COMMENTS 8/29/02	APPROVED:	

DP 'D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1486 SO. BROADWAY
COAL CITY, ILLINOIS 60416

ERECTOR DWG. E3 SCALE: 1"=1'		JOB NO:
BEAM DETAILS		
SHEET TITLE	BRIDGE REHABILITATION	SHEET NO:
STRUCTURE	CONTRACT # 80193 PROJECT # C-91-366-96	
LOCATION	F.A.P. ROUTE 112 (ILLINOIS SJ RUBY STREET) SECTION M-B-DK-4-I-1	24
ENGINEER	WILL COUNTY, ILLINOIS	
ARCHITECT	PARSONS BRINCKERHOFF STRUCTURE # 099-9901	



#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1					
2					
3					
4					
5					
6					
7	ONE	W16x45	14'-10"	A25	NTR
8	1	L 6"x4"x3/8"	1'-0" 3/8"	oa20	
9	1	PLATE 3/8"x10 3/4"	1'-0"	pa23	BENT PLATE
10	24	3/4" STUD	0'-4"	ma20	
11	14	7/8" A325 BOLTS	0'-2 3/4"	SB11	
12					
13					
14					
15	ONE	W16x45	13'-10"	B25	NTR
16	1			oa20	
17	1			pa23	
18	22			ma20	
19	14			SB11	
20					
21					
22					
23	ONE	W16x45	13'-3 1/2"	D25	NTR
24	1			oa20	
25	1			pa23	
26	22			ma20	
27	14			SB11	
28					
29					
30					
31	ONE	W16x45	12'-4"	E25	NTR
32	1			oa20	
33	1			pa23	
34	20			ma20	
35	14			SB11	
36					
37					
38					
39					
40					

FIELD VERIFY ALL

APPROVED

For Main Dimensions and Material Only

JAN 30 2004

Ralph E. Anderson

Engineer of Bridge & Traffic Structures

- GENERAL NOTES**
- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
 - ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
 - BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
 - STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
 - IF CURVES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
 - CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
 - NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

ONE - BEAM - E25

APPROVAL/REVIEW AUTHORITY:
PLEASE REVIEW THIS DRAWING CAREFULLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE INFORMATION PROVIDED AND FOR THE ACCURACY OF THE DIMENSIONS AND MATERIALS SHOWN ON THIS DRAWING. THIS IS THE RESPONSIBILITY OF THE USER.

NOTED: THIS DRAWING IS THE PROPERTY OF THE ENGINEER. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED ON THE DRAWING. IT IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.

DESIGNER: G.H. (G.H.)
CHECKED BY: G.H. (G.H.)
DATE: 8/12/02

PAINT: INORGANIC ZINC RICH PRIMER | WELDS: 1/4"
HOLES: 15/16" | WELDS = E70XX | MATL=ASTM A 36 } U.N.
WIRE FOR SHIPMENT ALL LOOSE CUP ANGLES

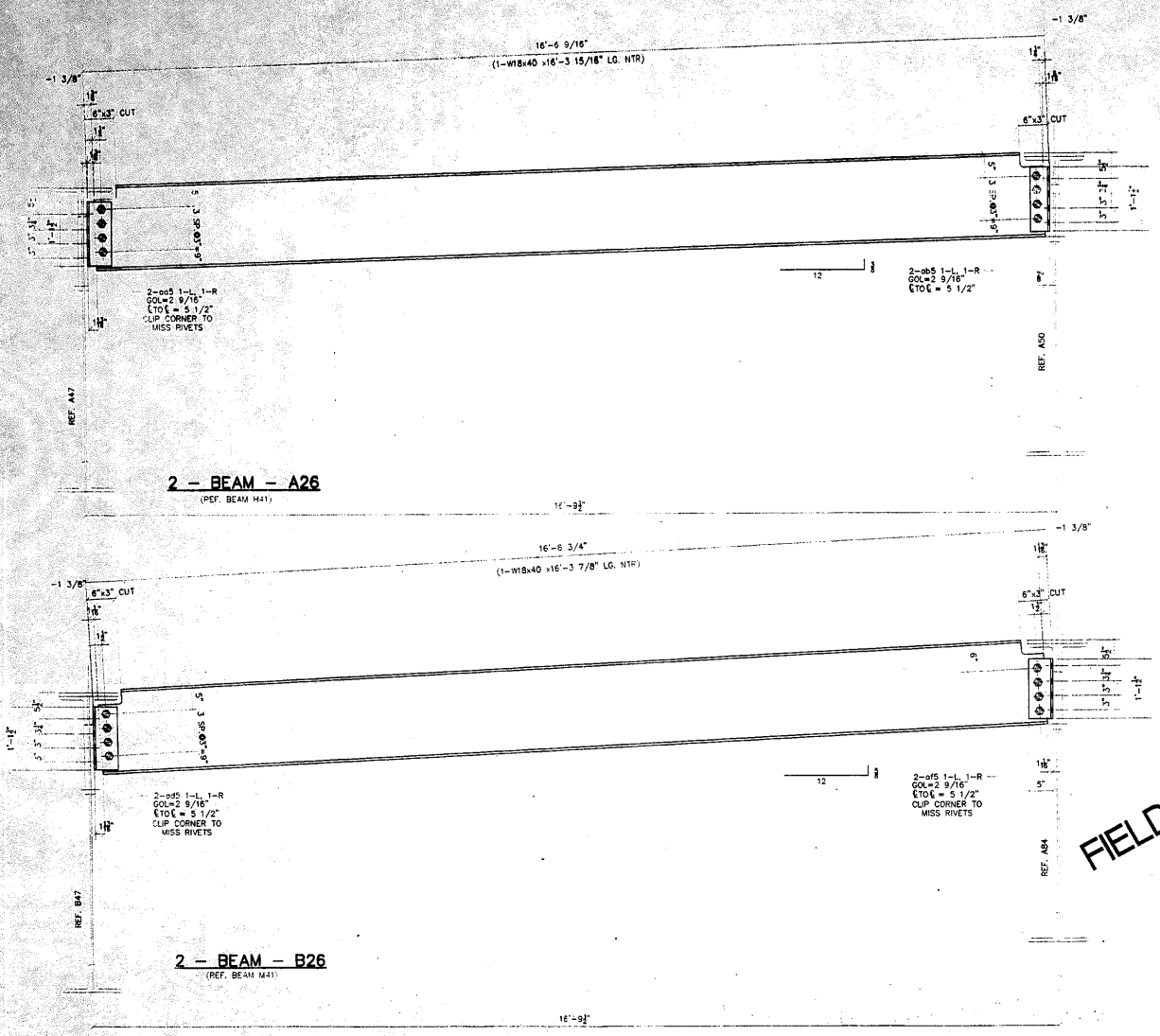
ISSUED FOR APPROVAL: 1/2/02 DATE: 6/12/02
G.H. RE-ISSUED FOR APPROVAL: 8/19/02 CHECKED BY:
G.H. REVISED PER COMMENTS: 8/26/02 DATE:
APPROVED:

D' CONSTRUCTION, INC.

GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

ERECTION DWG. E3 SCALE: 1"=1'

SHEET TITLE	BEAM DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO:
LOCATION	FAP. ROUTE 112 (ILLINOIS ST RIBY STREET) SECTION W-8-IR-4-I-1	25
ENGINEER	PARSONS BRINCKERHOFF	
ARCHITECT	STRUCTURE # 099-9901	



2 - BEAM - A26
(REF. BEAM H41)

2 - BEAM - B26
(REF. BEAM H41)

NO.	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1					
2					
3					
4					
5					
6					
7	2	W16x40	16'-3 15/16"	A26	NTR
8	2	L 4"x5 3/8"	1'-1 1/2"	ad5	
9	2	L 5"x5 3/8"	1'-1 1/2"	ad5	CLIP
10	16	7/8" A328 BOLTS	0'-2 3/4"	SB11	
11					
12					
13					
14	2	W16x40	16'-3 7/8"	B26	NTR
15	2	L 5"x5 3/8"	1'-1 1/2"	ad5	CLIP
16	2	L 5"x5 3/8"	1'-1 1/2"	ad5	CLIP
17	16			SB11	
18					
19					
20					
21					
22					
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35					
36					
37					
38					
39					
40					

APPROVED
For Material Quantity and
Material Only
JAN 30 2004
Ralph E. Anderson
Supervisor of Bridge & Traffic Structures

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M145 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

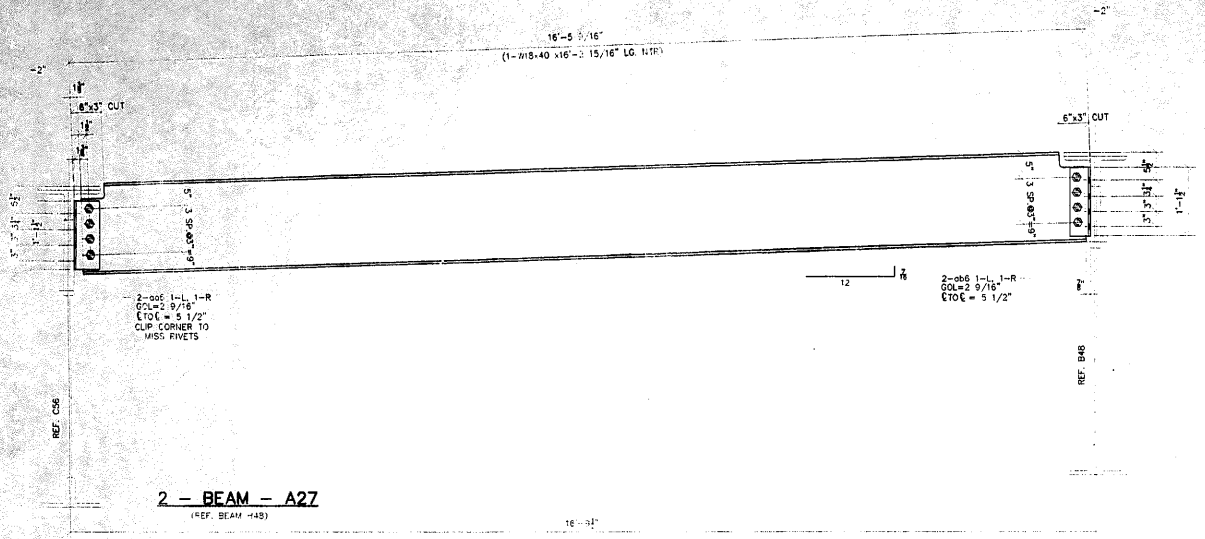
FIELD VERIFY ALL

ERECTION DWG. E1 SCALE: 1"=1'

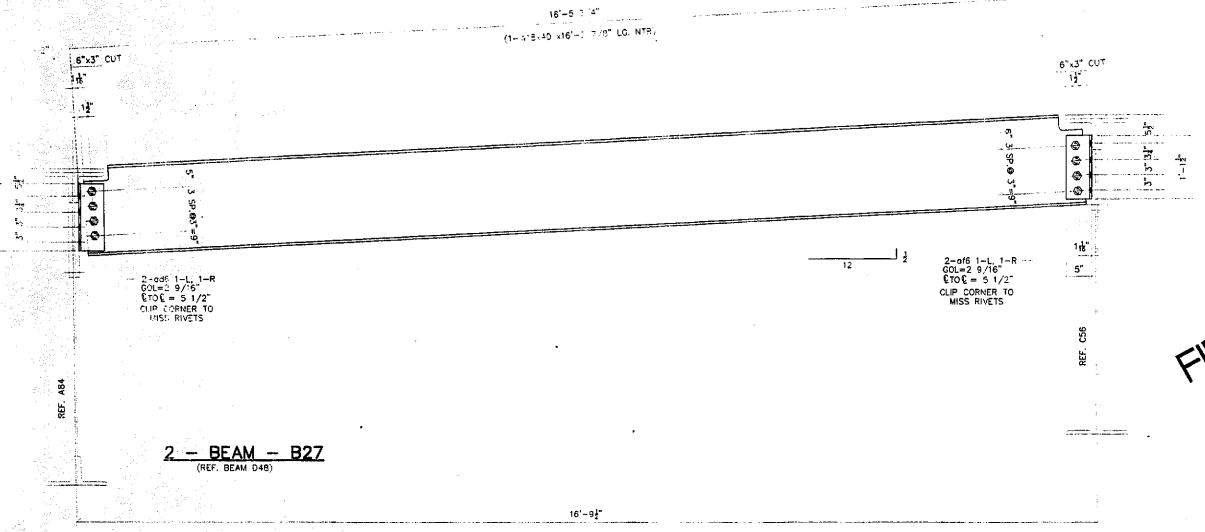
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY FOR CORRECTIONS PRIOR TO THE START OF WORK AND FOR REVISIONS. SIGNATURE AND TITLE OF THE DESIGNER IS THE RESPONSIBILITY OF THE DRAWN. SIGNATURE AND TITLE OF THE APPROVER IS THE RESPONSIBILITY OF THE APPROVER. SUSPENSE TO THE CONTRACTOR TO THE EXTENT OF THE CONTRACT CHANGES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE STRUCTURE AND FOR THE SAFETY OF THE STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE STRUCTURE OF REPAIRS AND MAINTENANCE.		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS: E70XX MATL: ASTM A36 } U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	
NO. BY	REVISIONS	DATE	DRAWN BY: GAH
1		8/05/02	CHECKED BY:
2			DATE:
3			APPROVED:

LD **D' CONSTRUCTION, INC.**
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60415

SHEET TITLE	BEAM DETAILS	JOB NO.
STRUCTURE	BRIDGE REHABILITATION CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO.
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-4-I-I	
ENGINEER	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF	
ARCHITECT	STRUCTURE # 098-9901	



2 - BEAM - A27
(REF. BEAM H48)



2 - BEAM - B27
(REF. BEAM D48)

NO	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.					
3.					
4.					
5.					
6.					
7.	2	W18x40	16'-2 15/16"	A27	NTR
8.	2	L 4"x4"x3/8"	1'-1 1/2"	o46	
9.	2	L 5"x5"x3/8"	1'-1 1/2"	o66	CUT DOWN
10.	16	7/8" A325 BOLTS	0'-2 3/4"	SB11	
11.					
12.					
13.					
14.	2	W18x40	16'-2 7/8"	B27	NTR
15.	2	L 5"x5"x3/8"	1'-1 1/2"	o46	CUT DOWN
16.	2	L 5"x5"x3/8"	1'-1 1/2"	o66	CUT DOWN
17.	16			SB11	
18.					
19.					
20.					
21.					
22.					
23.					
24.					
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40.					

APPROVED
For Steel Fabrication and
Erection Only
JAN 3 0 2004
Ralph E. Anderson
Regional Director of Bridge & Traffic Structures

GENERAL NOTES

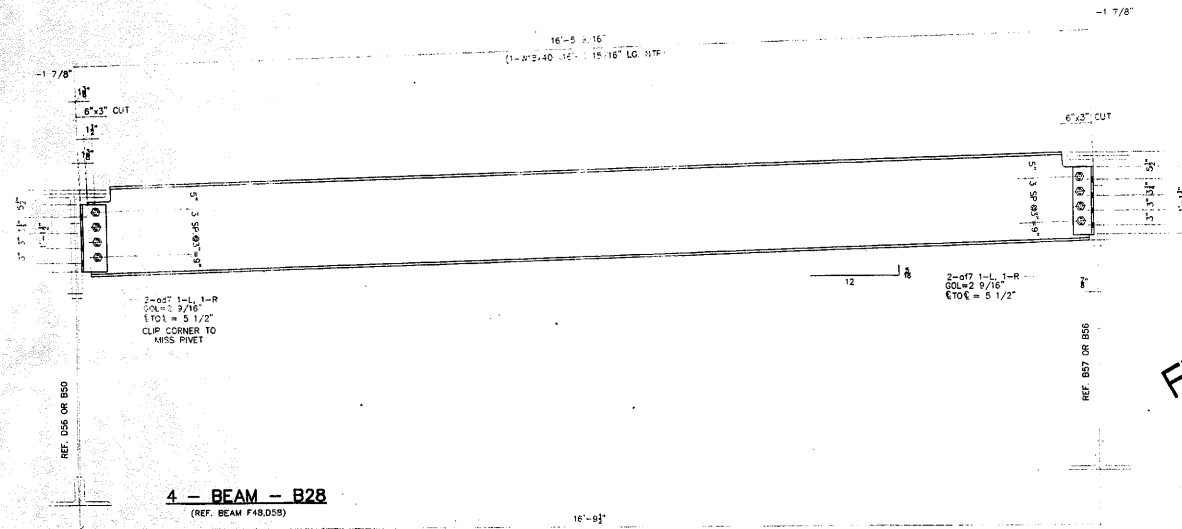
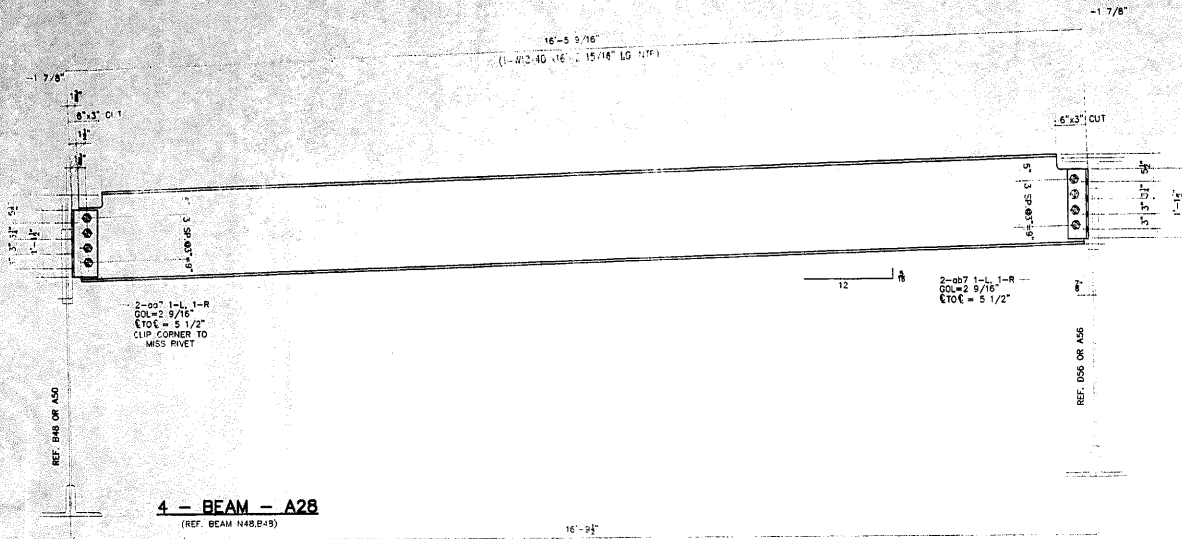
- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

FIELD VERIFY ALL

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. IF APPROVED, SIGN AND DATE. IF THE REVIEWER HAS COMMENTS, SIGN AND DATE. THE REVIEWER AND THE CONTRACTOR SHALL SIGN AND DATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE FABRICATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE ERECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE PAINT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE PRODUCTION OF FABRICATION DRAWINGS.		PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" WELDS = E70XX MATL = ASTM A 36 U.S. W/PE FOR SHIPMENT ALL LOOSE CLIP ANGLES			
NO	BY	REVISIONS	DATE	DRAWN BY:	GAH
△	GAH	ISSUED FOR APPROVAL	8/19/02	DATE:	8/05/02
△				CHECKED BY:	
△				DATE:	
△				APPROVED:	

D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
148 S. BROADWAY
COAL CITY, ILLINOIS 60416

ERECTION DWG. E1 SCALE: 1"=1'		JOB NO:
SHEET TITLE	BEAM DETAILS	
STRUCTURE	BRIDGE REHABILITATION	
	CONTRACT # 80193 PROJECT # C-91-366-96	SHEET NO:
LOCATION	FAP. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-8-D6-4-1-1	
ENGINEER	WILL COUNTY, ILLINOIS	
ARCHITECT	PARSONS BRINCKERHOFF	
	STRUCTURE # 099-9901	



#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.					
3.					
4.					
5.					
6.					
7.	4	W18x40	16-2 15/16"	A28	NTR
8.	4	L 4"x3/8"	1'-1 1/2"	067	
9.	4	L 5"x3/8"	1'-1 1/2"	067	CLIP
10.	32	7/8" A325 BOLTS	0-2 3/4"	SB11	
11.					
12.					
13.					
14.	4	W18x40	16-2 15/16"	B28	NTR
15.	4	L 5"x3/8"	1'-1 1/2"	067	CLIP
16.	4	L 4"x3/8"	1'-1 1/2"	067	
17.	32				SB11
18.					
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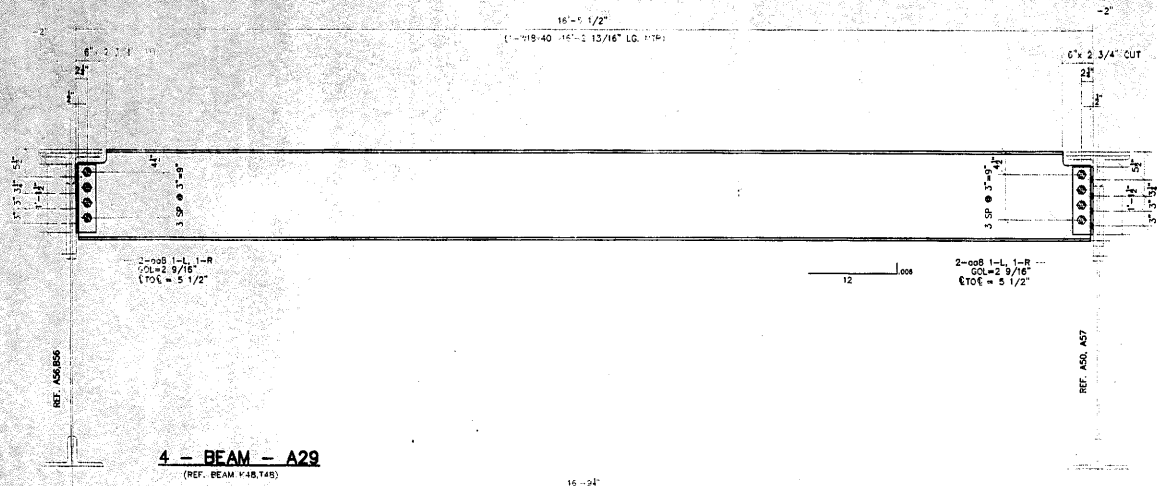
APPROVED
Per Specs Engineering and
Manufacturing Dept.
JAN 3 0 2004
Ralph E. Anderson
Supervisor of Shop & Field Operations

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M146 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2.

FIELD VERIFY ALL

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. THE CONTRACTOR'S RESPONSIBILITY IS TO VERIFY THE ACCURACY OF THE INFORMATION AND TO REPORT ANY DISCREPANCIES TO THE DESIGNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED TO THE DESIGNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED TO THE DESIGNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED TO THE DESIGNER.		PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" WELDS = E70XX (MATERIAL ASTM A 36) U.S.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES		<p>D'D CONSTRUCTION, INC. GENERAL CONTRACTOR 1488 SO. BROADWAY COAL CITY, ILLINOIS 60416</p>	ERECTION DWG. E1 SCALE: 1"=1' SHEET TITLE: BEAM DETAILS STRUCTURE: BRIDGE REHABILITATION CONTRACT # 60193 PROJECT # C-91-366-96 LOCATION: F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-4-1-1 WILL COUNTY, ILLINOIS ENGINEER: PARSONS BRINCKERHOFF ARCHITECT: STRUCTURE # 099-9901		JOB NO: SHEET NO: 28
NO. BY REVISIONS DATE DRAWN BY: CAH DATE: 8/05/02 CHECKED BY:		DATE:					
CAH ISSUED FOR APPROVAL 8/19/02		DATE:					
APPROVED:		DATE:					
APPROVED:		DATE:					



4 - BEAM - A29
(REF. BEAM #48, T48)

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1					
2					
3					
4					
5					
6					
7	4	W18x40	16'-2 13/16"	A29	NTR
8	4	L 4 x 4 x 3/8"	1'-1 1/2"	008	
9	32	7/8" A325 BOLTS	0'-2 3/4"	SB11	
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
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21					
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33					
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35					
36					
37					
38					
39					
40					

FIELD VERIFY ALL

APPROVED
For High Temperature and
Seismic Only
JAN 30 2004
Ralph E. Anderson
Engineer of Bridge & Traffic Structures

GENERAL NOTES

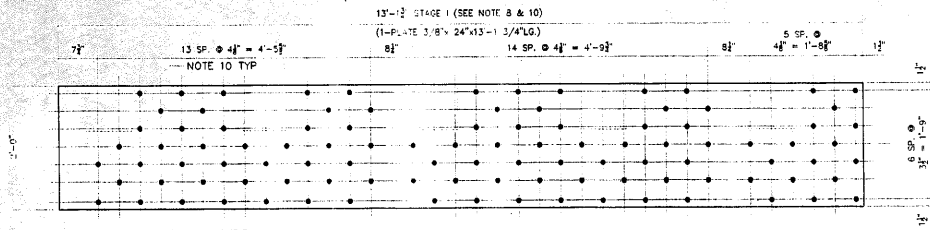
- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M148 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK M.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS" FOR NOTCH TOUGHNESS ZONE 2"

ERECTION DWG. E1 SCALE: 1"=1'

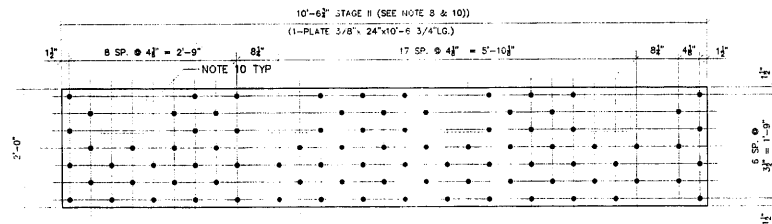
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. I HEREBY CERTIFY THAT THE DESIGN OF THE STRUCTURE IS IN ACCORDANCE WITH THE SPECIFICATIONS AND STANDARDS OF THE AISC AND THE AASHTO BRIDGE DESIGN SPECIFICATIONS. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE DESIGN OR CONSTRUCTION OF THIS STRUCTURE. ANY CHANGES TO THE DESIGN SHALL BE MADE BY THE DESIGNER AND APPROVED BY THE ENGINEER OF RECORD. THE ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THIS STRUCTURE. ANY CHANGES TO THE DESIGN SHALL BE MADE BY THE DESIGNER AND APPROVED BY THE ENGINEER OF RECORD. THE ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THIS STRUCTURE.		PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" WELDS = E70XX MAT = ASTM A 36 } U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	WELDS: 1/4" DATE: 8/05/02
NO. BY REVISIONS DATE DRAWN BY: GAH GAH ISSUED FOR APPROVAL: 8/19/02	CHECKED BY:	DATE:	APPROVED:

D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

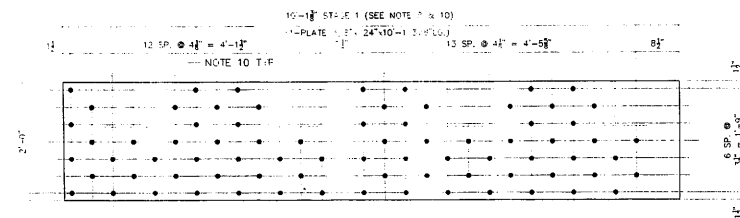
SHEET TITLE	BEAM DETAILS	JOB NO:	
STRUCTURE	BRIDGE REHABILITATION CONTRACT # 80193 PROJECT # C-91-366-96	SHEET NO:	29
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-9-DR-4-1-1		
ENGINEER	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF		
ARCHITECT	STRUCTURE # 099-9901		



ONE - PLATE - A30
FLOOR BEAM F2 EAST LEAF
(LOOKING EAST)

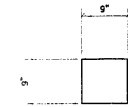


ONE - PLATE - B30
FLOOR BEAM F2 EAST LEAF
(LOOKING EAST)



ONE - PLATE - D30
FLOOR BEAM F2 EAST LEAF
(LOOKING EAST)

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	ONE	PLATE 3/8"x24"	15'-1 3/4"	A30	
3.					
4.					
5.					
6.	ONE	PLATE 3/8"x24"	10'-6 3/4"	B30	
7.					
8.					
9.					
10.	ONE	PLATE 3/8"x24"	10'-1 3/8"	D30	
11.					
12.					
13.					
14.	13	PLATE 7/16"x9"	0'-9"	E30	
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					



13 - PLATE - E30
FIELD DRILL (NOTE 10)

APPROVED
For Main Erection and
Materials Only
JAN 30 2004
Ralph E. Anderson
Supervisor of Bridge & Traffic Structures

GENERAL NOTES

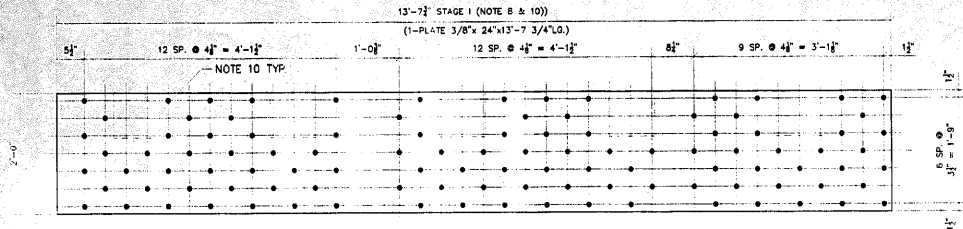
- * - REPAIR STEEL FOR EAST APPROACH SPAN.
- 1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- 2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- 3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- 4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- 5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- 6. CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BLASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINC H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- 7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"
- 8. USE NEW PLATES AS TEMPLATE TO FIELD DRILL FLOOR BEAM WEBS.
- 9. ALL BOLTS SHALL BE PLACED WITH WASHER AND NUT ON EAST SIDE OF WEB.
- 10. USE EXISTING HOLES TO FIELD DRILL HOLES IN NEW PLATES.

FIELD VERIFY ALL
REFERENCE DWG. 22A
ERECTOR DWG. E5 SCALE: 1"=1'

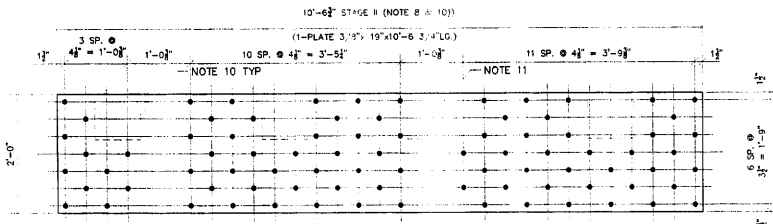
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. IF APPROVED, SIGN AND DATE. THE SIGNATURE AND DATE OF THE REVIEWER SHALL BE ON THE DRAWING. THE REVIEWER SHALL BE THE DESIGNER OR THE DESIGNER'S SUPERVISOR. THE REVIEWER SHALL BE THE DESIGNER OR THE DESIGNER'S SUPERVISOR. THE REVIEWER SHALL BE THE DESIGNER OR THE DESIGNER'S SUPERVISOR.		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 } U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES		
NO.	BY	REVISIONS	DATE	DRAWN BY: GAH
1	GAH	ISSUED FOR APPROVAL	11/25/02	DATE: 11/18/02
2	GAH	REVISED PER COMMENTS	12/23/02	CHECKED BY:
3				DATE:
4				APPROVED:



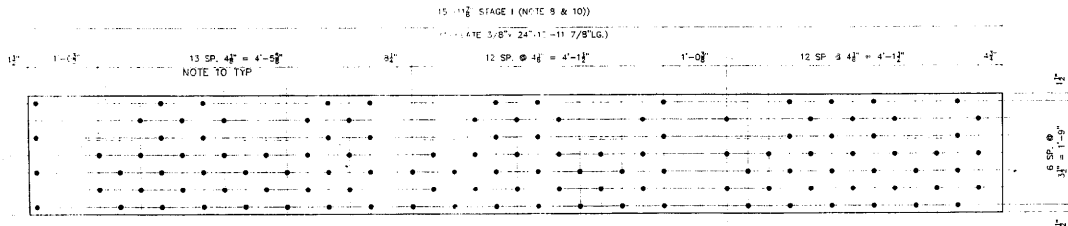
SHEET TITLE		REPAIR DETAILS	JOB NO.
STRUCTURE		BRIDGE REHABILITATION	
LOCATION		CONTRACT # 60193 PROJECT # C-91-368-96	
ENGINEER		FAP. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-4-1-1	
ARCHITECT		WILL COUNTY, ILLINOIS	
		PARSONS BRINCKERHOFF	
		STRUCTURE # 099-9901	



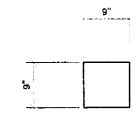
ONE - PLATE - A31
FLOOR BEAM F3 EAST LEAF
(LOOKING EAST)



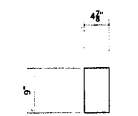
ONE - PLATE - B31
FLOOR BEAM F3 EAST LEAF
(LOOKING EAST)



ONE - PLATE - D31
FLOOR BEAM F3 EAST LEAF
(LOOKING EAST)



14 - PLATE - E31
FIELD DRILL (NOTE 10)



ONE - PLATE - F31
FIELD DRILL (NOTE 10)

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1					
2	ONE	PLATE 3/8"x24"	13'-7 3/4"	A31	
3					
4					
5					
6	ONE	PLATE 3/8"x24"	10'-6 3/4"	B31	
7					
8					
9					
10	ONE	PLATE 3/8"x24"	15'-11 7/8"	D31	
11					
12					
13					
14	14	PLATE 3/8"x9"	0'-9"	E31	
15					
16					
17	ONE	PLATE 3/8"x4 7/8"	0'-9"	F31	
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

APPROVED
For Shop Fabrication and
Materials Only
JAN 30 2004
Ralph E. Anderson
Supervisor of Bridge & Traffic Structures

GENERAL NOTES

- * - REPAIR STEEL FOR EAST APPROACH SPAN.
- 1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- 2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- 3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- 4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- 5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- 6. CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BLASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINC H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- 7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"
- 8. USE NEW PLATES AS TEMPLATE TO FIELD DRILL FLOOR BEAM WEBS.
- 9. ALL BOLTS SHALL BE PLACED WITH WASHER AND NUT ON EAST SIDE OF WEB.
- 10. USE EXISTING HOLES TO FIELD DRILL HOLES IN NEW PLATES.
- 11. USE EXISTING HOLES TO FIELD DRILL HOLES IN NEW 4 7/8"x9"x3/8" PLATES

FIELD VERIFY ALL

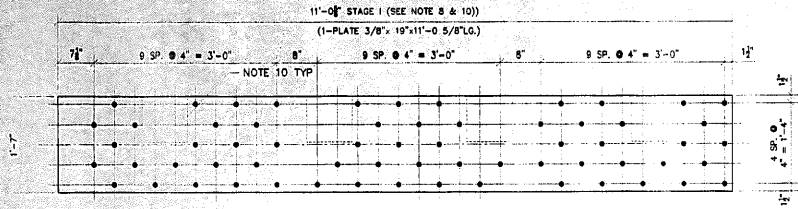
ERECTION DWG. E5
REFERENCE DWG. 22B
SCALE: 1"=1'

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. I HEREBY CERTIFY THAT THE INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I AM A LICENSED PROFESSIONAL ENGINEER AND I AM REGISTERED IN THE STATE OF ILLINOIS. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE DESIGN OR CONSTRUCTION OF THE STRUCTURE. THE STRUCTURE, STEEL DETAILS DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE DESIGN OR CONSTRUCTION OF THE STRUCTURE. PRODUCTION OF FABRICATION DRAWINGS		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX (MATL=ASTM A 36) U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	
NO. BY	REVISIONS	DATE	DRAWN BY: GAH
△	ISSUED FOR APPROVAL	11/25/02	DATE: 11/18/02
△	REVISED PER COMMENTS	12/23/02	CHECKED BY:
△			DATE:
△			APPROVED:

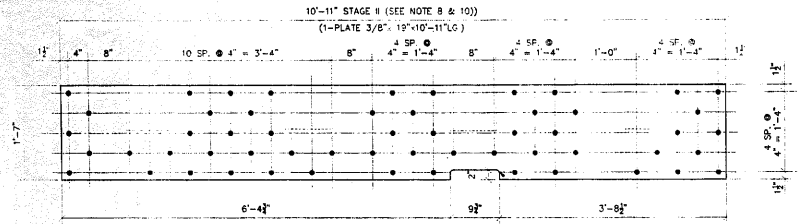


D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

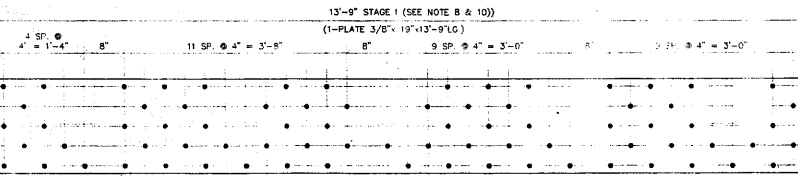
SHEET TITLE	REPAIR DETAILS		JOB NO:
	STRUCTURE	BRIDGE REHABILITATION	
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-RR-4+1		SHEET NO:
ENGINEER	WILL COUNTY, ILLINOIS		31
ARCHITECT	PARSONS BRINCKERHOFF STRUCTURE # 039-9901		



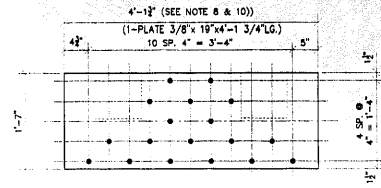
ONE - PLATE - A32
FLOOR BEAM F4 EAST LEAF
(LOOKING EAST)



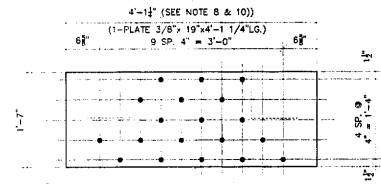
ONE - PLATE - B32
FLOOR BEAM F4 EAST LEAF
(LOOKING EAST)



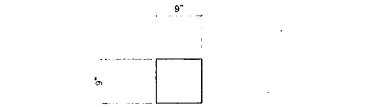
ONE - PLATE - D32
FLOOR BEAM F4 EAST LEAF
(LOOKING EAST)



2 - PLATE - F32
FLOOR BEAM F5 EAST LEAF
(LOOKING EAST)



ONE - PLATE - F32
FLOOR BEAM F5 EAST LEAF
(LOOKING EAST)



19 - PLATE - F32
FIELD DRILL (NOTE 10)

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	ONE	PLATE 3/8"x19"	11'-0 5/8"	A32	
3.					
4.					
5.					
6.	ONE	PLATE 3/8"x19"	10'-11"	B32	
7.					
8.					
9.					
10.	ONE	PLATE 3/8"x19"	13'-9"	D32	
11.					
12.					
13.					
14.	2	PLATE 3/8"x19"	4'-1 3/4"	E32	
15.					
16.					
17.					
18.	ONE	PLATE 3/8"x19"	4'-1 3/4"	F32	
19.					
20.					
21.					
22.	19	PLATE 3/8"x9"	0'-9"	G32	
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

APPROVED
For Main, Dimensions and Materials Only
JAN 30 2004
Ralph C. Ambrose
Regional Sales & Traffic Manager

GENERAL NOTES

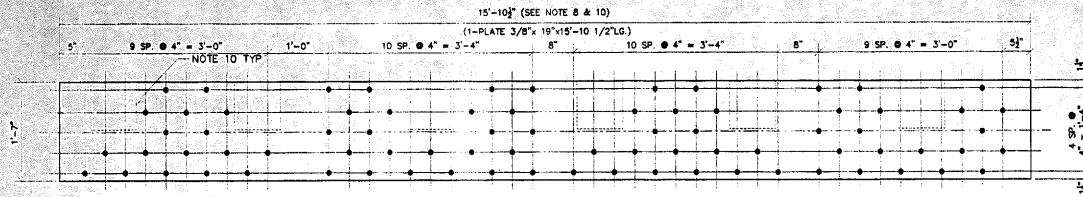
- * - REPAIR STEEL FOR EAST APPROACH SPAN.
- 1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- 2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- 3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- 4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- 5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- 6. CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BLASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN-WILLIAMS ZINC H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- 7. NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2
- 8. USE NEW PLATES AS TEMPLATE TO FIELD DRILL FLOOR BEAM WEBS.
- 9. ALL BOLTS SHALL BE PLACED WITH WASHER AND NUT ON EAST SIDE OF WEB.
- 10. USE EXISTING HOLES TO FIELD DRILL HOLES IN NEW PLATES.

FIELD VERIFY ALL

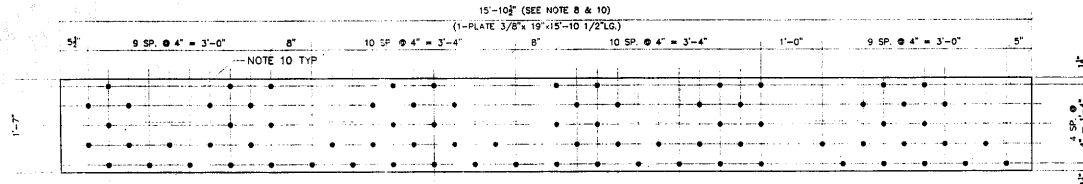
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS AND MATERIALS SHOWN ON THIS DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING STRUCTURE FROM THE OPERATION OF THE FABRICATION OF THIS WORK. SUBSEQUENT CHANGES TO INFORMATION SHOWN ON THESE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING STRUCTURE FROM THE OPERATION OF FABRICATION SERVICES.	PAINT: INORGANIC ZINC RICH PRIMER } WELDS: 1/4" HOLES: 15/16" } WELDS = E70XX } MATL=ASTM A 36 } U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES } NO. BY REVISIONS DATE DRAWN BY: GH GH ISSUED FOR APPROVAL 11/25/02 DATE: 11/16/02 GH REVISED PER COMMENTS 3/7/03 CHECKED BY: DATE: APPROVED:
---	---

D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

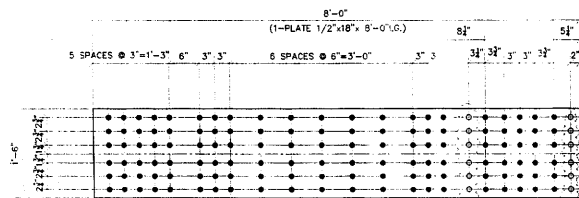
SHEET TITLE	REPAIR DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO:
ENGINEER	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION W-8-2R-4+1	32
ARCHITECT	WILL COUNTY, ILLINOIS	
	PARSONS BRINCKERHOFF	
	STRUCTURE # 099-9901	



2 - PLATE - A33
FLOOR BEAM F6 & F7 EAST LEAF
(LOOKING EAST)



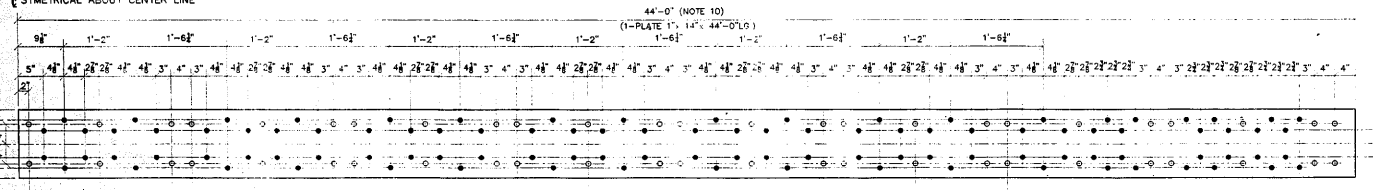
2 - PLATE - B33
FLOOR BEAM F6 & F7 EAST LEAF
(LOOKING EAST)



ONE - PLATE - D33
HORIZONTAL GIRDER SPLICE
ABOVE FLOOR BEAM F1

FIELD DRILL
NOTE 10

SYMMETRICAL ABOUT CENTER LINE



FIELD DRILL
NOTE 10

ONE - PLATE - E33
FLOOR BEAM F8 EAST LEAF
TOP COVER PLATE

NO.	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	2	PLATE 3/8"x19"	15'-10 1/2"	A33	
3.					
4.					
5.					
6.	2	PLATE 3/8"x19"	15'-10 1/2"	B33	
7.					
8.					
9.					
10.	ONE	PLATE 7/16"x18"	8'-0"	D33	
11.					
12.					
13.					
14.	ONE	PLATE 1"x14"	44'-0"	E33	
15.					
16.					
17.					
18.	24	PLATE 3/8"x9"	0'-9"	F33	
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					



24 - PLATE - F33
FIELD DRILL (NOTE 10)

APPROVED
For Welds, Connections and
Materials Only
JAN 30 2004
Ralph E. Anderson
Supervisor of Bridge & Traffic Structures

GENERAL NOTES

- * - REPAIR STEEL FOR EAST APPROACH SPAN.
- 1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- 2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- 3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- 4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- 5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- 6. CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BLASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINC H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- 7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"
- 8. USE NEW PLATES AS TEMPLATE TO FIELD DRILL FLOOR BEAM WEBS.
- 9. ALL BOLTS SHALL BE PLACED WITH WASHER AND NUT ON EAST SIDE OF WEB.
- 10. USE EXISTING HOLES TO FIELD DRILL HOLES IN NEW PLATES.

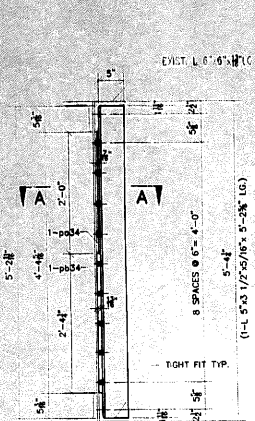
FIELD VERIFY ALL

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY FOR CONFORMANCE WITH THE SPECIFICATIONS AND CONTRACT DOCUMENTS. SIGNATURE OF THE CONTRACTOR SHALL BE OBTAINED ON THE DRAWING THIS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED.	PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" U.N. HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES NO. BY REVISIONS DATE DRAWN BY: GAH GAH ISSUED FOR APPROVAL 11/25/02 DATE: 11/18/02 GAH REVISED PER COMMENTS 12/27/02 CHECKED BY: DATE: APPROVED:
---	--

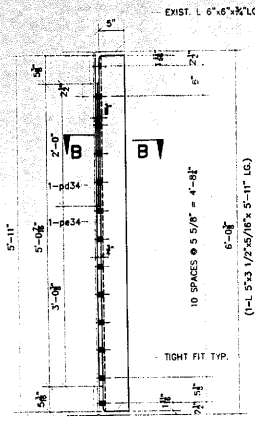
LD CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60415

ERECTOR DWS. 22E 22F SCALE: 1"=1'

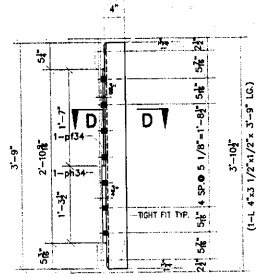
SHEET TITLE	REPAIR DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	SHEET NO:
LOCATION	CONTRACT # 80193 PROJECT # C-91-366-96	33
ENGINEER	F.A.P. ROUTE 112 (ILINOS 53 HWY STREET) SECTION M-8-06-4-1	
ARCHITECT	WILL COUNTY, ILLINOIS	
	PARSONS BRINCKERHOFF	
	STRUCTURE # 099-9901	



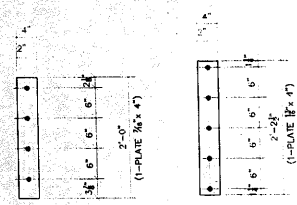
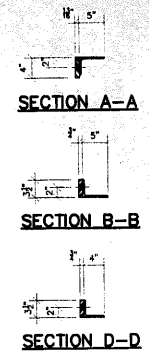
3 - REPAIR ANGLE - A34
REFERENCE SHEET # 22A TYPICAL SECTION



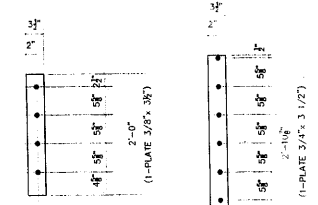
3 - REPAIR ANGLE - B34
REFERENCE SHEET # 22B TYPICAL SECTION



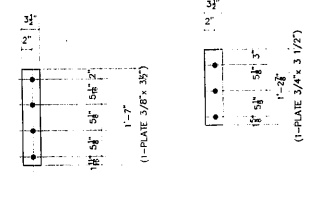
12 - REPAIR ANGLE AS SHOWN - D34
5 - REPAIR ANGLE OPPOSITE - E34
REFERENCE SHEET # 22C, 22D, 22E TYPICAL SECTION



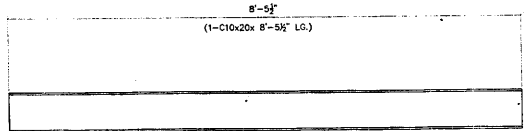
p34 DETAIL
7 REQUIRED



p34 DETAIL
9 REQUIRED



p34 DETAIL
36 REQUIRED



2 - REPLACEMENT CHANNEL - E34
REFERENCE SHEET # 22F EAST PIER PARTIAL PLAN
REMOVE EXISTING 10" C @ 20# V.I.F.
DRILL HOLES IN FIELD USE EXIST. AS TEMPLATE
@ SIDEWALK SUPPORTS

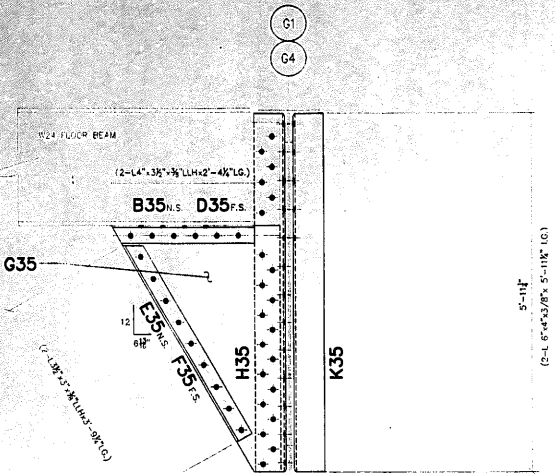
#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	3	L 5"x3 1/2"x5/16"	5'-2 5/8"	A34	
3.	7	PLATE 7/16"x4"	2'-0"	pd34	
4.	7	PLATE 13/16"x4"	2'-2 1/2"	pb34	
5.					
6.					
7.					
8.	3	L 5"x3 1/2"x5/16"	4'-11"	B34	
9.	9	PLATE 3/8"x3 1/2"	2'-0"	pd34	
10.	9	PLATE 3/4"x3 1/2"	2'-10 7/8"	pb34	
11.					
12.					
13.					
14.	12	L 5"x3 1/2"x5/16"	3'-9"	D34	
15.	36	PLATE 3/8"x3 1/2"	1'-9"	pd34	
16.	36	PLATE 3/4"x3 1/2"	1'-2 7/8"	pb34	
17.					
18.					
19.	5	L 4"x3 1/2"x1/2"	3'-9"	E34	
20.					
21.					
22.					
23.	2	C10x20	8'-5 1/2"	F34	
24.					
25.					
26.					
27.					
28.					
29.					
30.					
31.					
32.					
33.					

(SEE SHEET 9 FOR REMAINDER OF ANGLES)

APPROVED
Per Plans Department and
Structural Dept.
JAN 3 0 2004
Ralph E. Arban
Supervisor of Bridge & Traffic Structures

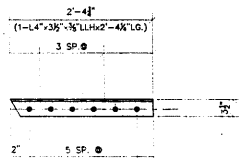
- GENERAL NOTES**
- REPAIR STEEL FOR EAST APPROACH SPAN.
 - ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
 - ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
 - BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 ONLY. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
 - STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
 - IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
 - CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BLASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINC H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
 - NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2
 - USE EXISTING HOLES TO FIELD DRILL HOLES IN NEW CHANNELS, ANGLES, AND ALL NEW FILL PLATES.
 - ALL BOLTS SHALL BE PLACED WITH WASHER AND NUT ON EAST SIDE OF WEB.

<small>APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY FOR ERRORS AND OMISSIONS. THE USER OF THE DRAWING SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE INFORMATION AND THE ACCURACY OF THE DIMENSIONS OF THE WORK AND IS THE RESPONSIBILITY OF THE USER. UNLESS NOTED TO THE CONTRARY, THE USER WARRANTS THAT THE INFORMATION IS CORRECT AND COMPLETE FOR THE PURPOSES INTENDED. SUBJECT TO THE ABOVE, THE USER SHALL WARRANT THAT THE INFORMATION IS CORRECT AND COMPLETE FOR THE PURPOSES INTENDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS OF THE WORK AND IS THE RESPONSIBILITY OF THE USER.</small>	PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" WELDS = E70XX MAT=AS7M A 36 U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	<p>D'D CONSTRUCTION INC. GENERAL CONTRACTOR 1485 SO. BROADWAY COAL CITY, ILLINOIS 60416</p>	SHEET TITLE REPAIR DETAILS JOB NO:	
	NO BY REVISIONS DATE DRAWN BY: GAH		STRUCTURE CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO:
	GAH ISSUED FOR APPROVAL 11/23/02 DATE: 11/18/02		LOCATION EAP. ROUTE 122 (ILRHS 53 RIGHT STREET) SECTION M-9-DN-4-1-1	WILL COUNTY, ILLINOIS
	GAH REVISED PER COMMENTS 11/23/02 CHECKED BY:		ENGINEER PARSONS BRINCKERHOFF	STRUCTURE # 099-9901

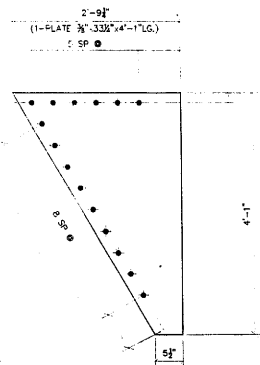


SECTION B-B

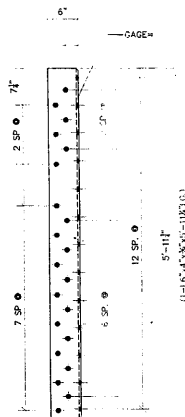
3 - BRACE ASSEMBLY - A35



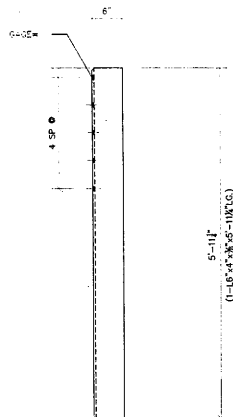
3 - ANGLE AS SHOWN - B35
3 - ANGLE OPPOSITE - D35



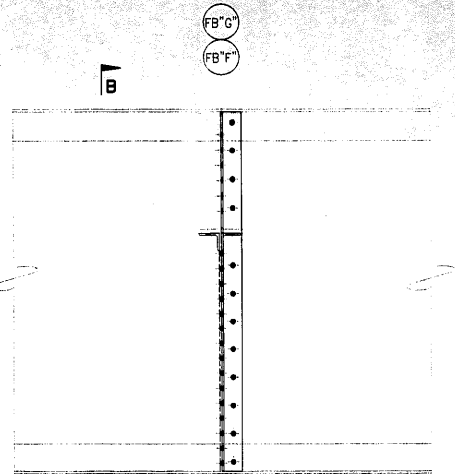
3 - PLATE - G35



3 - ANGLE - H35



3 - ANGLE - K35



SECTION A-A

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1					
2	3	BRACE ASSEMBLY	SEE BELOW	A35	
3					
4					
5					
6	3	L 4"x3 1/2"x3/8"	2'-4 1/4"	B35	
7					
8					
9					
10	3	L 4"x3 1/2"x3/8"	2'-4 1/4"	D35	
11					
12					
13					
14	3	L 3 1/2"x3 1/2"x3/8"	3'-9 1/4"	F35	
15					
16					
17					
18	3	L 3 1/2"x3 1/2"x3/8"	3'-9 1/4"	F35	
19					
20					
21					
22	3	PLATE 3/8"x 33 1/4"	4'-1"	G35	
23					
24					
25					
26	3	L 6"x4"x3/8"	5'-11 1/4"	H35	
27					
28					
29					
30	3	L 6"x4"x3/8"	5'-11 1/4"	K35	

APPROVED
For Steel Dimensions and
Materials Only
JAN 30 2004
Ralph E. Anderson
Engineer of Bridge & Traffic Structures

GENERAL NOTES

- * - REPAIR STEEL FOR EAST APPROACH SPAN.
- 1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- 2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- 3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M148 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- 4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- 5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- 6. CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- 7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

FIELD VERIFY ALL

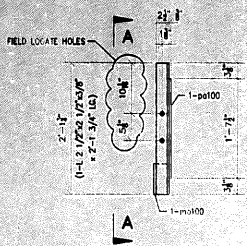
ERECTION DWG. E7 SCALE: 1"=1'

ANGLE AS SHOWN - E35
ANGLE OPPOSITE - F35

APPROVAL/REVIEW AUTHORITY:		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4"	
PLEASE REFER TO THE DRAWING CAREFULLY. CONSULT THE CONTRACTOR FOR ANY CHANGES TO THIS DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED TO THE FABRICATOR.		HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 U.N.	
UNLESS NOTED TO THE CONTRARY, ON THIS DRAWING, WHEN IT IS INTENDED FOR FABRICATION, IT SHALL BE ASSUMED THAT ALL APPROVALS AND SIGNATURES ARE THE PROPERTY OF THE CONTRACTOR.		WIRE FOR SHIPMENT ALL LOOSE CUP ANGLES	
NO	BY	REVISIONS	DATE
Δ	GAH	ISSUED FOR APPROVAL	2/24/03
Δ		CHECKED BY:	
Δ		DATE:	
Δ		APPROVED:	

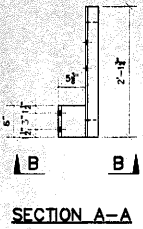
D'D CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE	REPAIR DETAILS	JOB NO.:
STRUCTURE	EAST APPROACH	
	BRIDGE REHABILITATION	
	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO.:
	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-8-36-4-1-1	35
ENGINEER	WILL COUNTY, ILLINOIS	
ARCHITECT	PARSONS BRINCKERHOFF	
	STRUCTURE # 039-9901	

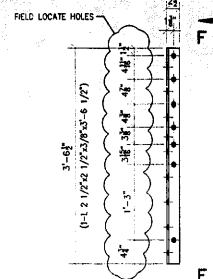


ONE - TRUSS GUARD ANGLE AS SHOWN - A100
ONE - TRUSS GUARD ANGLE OPPOSITE - B100

REFERENCE SHEET # 16A TRUSS GUARD
 FIELD DRILL HOLES 15/16"

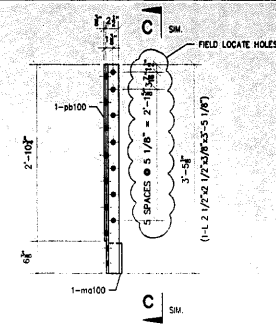


SECTION A-A **SECTION B-B**



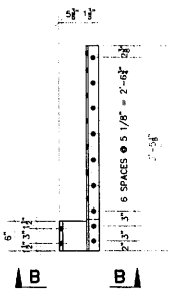
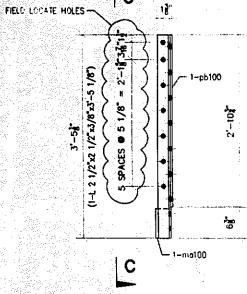
2 - TRUSS GUARD ANGLE AS SHOWN - N100
2 - TRUSS GUARD ANGLE OPPOSITE - P100

REFERENCE SHEET # 16A TRUSS GUARD / SECT. F-F
 FIELD DRILL HOLES 15/16"



2 - TRUSS GUARD ANGLES AS SHOWN - T100
2 - TRUSS GUARD ANGLES OPPOSITE - V100

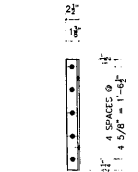
REFERENCE SHEET # 16D TRUSS GUARD / SECT. C-C
 FIELD DRILL HOLES 15/16"



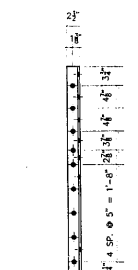
SECTION C-C



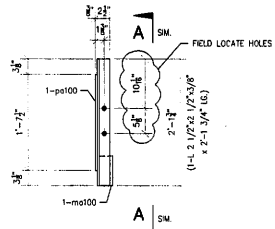
SECTION D-D



SECTION E-E

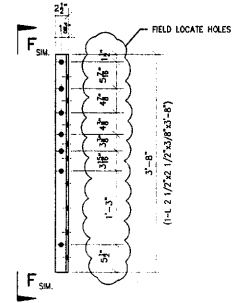


SECTION F-F



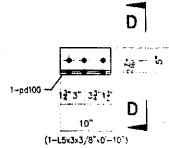
ONE - TRUSS GUARD ANGLE AS SHOWN - AA100
ONE - TRUSS GUARD ANGLE OPPOSITE - BB100

REFERENCE SHEET # 16D TRUSS GUARD
 FIELD DRILL HOLES 15/16"



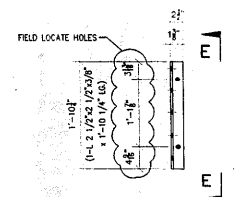
ONE - TRUSS GUARD ANGLE AS SHOWN - FF100
ONE - TRUSS GUARD ANGLE OPPOSITE - GG100

REFERENCE SHEET # 16D TRUSS GUARD / SECT. F-F
 FIELD DRILL HOLES 15/16"



ONE - TRUSS GUARD ANGLE AS SHOWN - F100
ONE - TRUSS GUARD ANGLE OPPOSITE - G100

REFERENCE SHEET # 16A TRUSS GUARD / SECT. B-B
 FIELD DRILL HOLES 15/16"



ONE - TRUSS GUARD ANGLE AS SHOWN - H100
ONE - TRUSS GUARD ANGLE OPPOSITE - K100

REFERENCE SHEET # 16A TRUSS GUARD / SECT. E-E
 FIELD DRILL HOLES 15/16"

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	ONE	L2 1/2x2 1/2x3/8	2'-1 3/4"	A100	
3.	ONE	PLATE 2 1/2 x3/8	1'-7 1/2"	pb100	
4.	ONE	CUT C15x33.9	0'-6"	mo100	
5.					
6.	ONE	L2 1/2x2 1/2x3/8	2'-1 3/4"	B100	
7.	ONE			pb100	
8.	ONE			mo100	
9.					
10.	2	L2 1/2x2 1/2x3/8	3'-5 1/8"	D100	
11.	2	PLATE 2 1/2 x3/8	2'-10 3/4"	pb100	
12.	2			mo100	
13.					
14.	2	L2 1/2x2 1/2x3/8	3'-5 1/8"	F100	
15.	2			pb100	
16.	2			mo100	
17.					
18.	ONE	L 5x3x3/8	0'-10"	F100	
19.	ONE	PLATE 1/2" x 9"	0'-10"	pd100	
20.					
21.	ONE	L 5x3x3/8	0'-10"	G100	
22.	ONE			pd100	
23.					
24.	ONE	L2 1/2x2 1/2x3/8	1'-10 1/4"	H100	
25.					
26.	ONE	L2 1/2x2 1/2x3/8	1'-10 1/4"	K100	
27.					
28.	2	L2 1/2x2 1/2x3/8	3'-6 1/2"	N100	
29.					
30.	2	L2 1/2x2 1/2x3/8	3'-6 1/2"	P100	
31.					
32.	2	L2 1/2x2 1/2x3/8	3'-5 1/8"	T100	
33.	2	PLATE 2 1/2 x3/8	2'-10 3/4"	pb100	
34.	2			mo100	
35.					
36.	2	L2 1/2x2 1/2x3/8	3'-5 1/8"	V100	
37.	2			pb100	
38.	2			mo100	
39.					
40.	ONE	L2 1/2x2 1/2x3/8	2'-1 3/4"	AA100	
41.	ONE	PLATE 2 1/2 x3/8	1'-7 1/2"	pb100	
42.	ONE	CUT C15x33.9	0'-6"	mo100	
43.					
44.	ONE	L2 1/2x2 1/2x3/8	2'-1 3/4"	BB100	
45.	ONE			pb100	
46.	ONE			mo100	
47.					
48.	ONE	L2 1/2x2 1/2x3/8	1'-10 3/4"	DD100	
49.					
50.	ONE	L2 1/2x2 1/2x3/8	1'-10 3/4"	EE100	
51.					
52.	ONE	L2 1/2x2 1/2x3/8	3'-8"	FF100	
53.					
54.	ONE	L2 1/2x2 1/2x3/8	3'-8"	GG100	

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
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 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

APPROVED
 For Metal Fabrication and
 Material Delivery
 JAN 30 2004
Ralph E. Anderson
 Engineer of Bridge & Traffic Structures

LEGEND

- FIELD DRILL HOLES 15/16"
- ◊ SHOP DRILL HOLES 15/16"

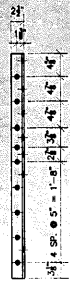
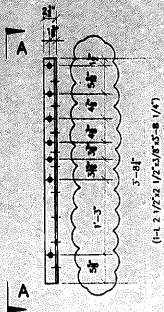
FIELD VERIFY ALL

SCALE: 1"=1'

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. I HEREBY GIVE MY APPROVAL FOR THE FABRICATION OF THE STRUCTURE SHOWN ON THIS DRAWING. I AM RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS AND THE MATERIALS SPECIFIED ON THIS DRAWING. I AM RESPONSIBLE FOR THE CORRECTNESS OF THE DIMENSIONS AND THE MATERIALS SPECIFIED ON THIS DRAWING. I AM RESPONSIBLE FOR THE CORRECTNESS OF THE DIMENSIONS AND THE MATERIALS SPECIFIED ON THIS DRAWING. I AM RESPONSIBLE FOR THE CORRECTNESS OF THE DIMENSIONS AND THE MATERIALS SPECIFIED ON THIS DRAWING.	PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" (WELDS = E70XX) (MATL=ASTM A 36) WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	WELDS: 1/4" DATE: 3/20/03 DATE: 3/20/03 DATE: 3/20/03
NOI BY: _____	REVISIONS: _____	DATE DRAWN BY: CGF
CHKD PER COMMENTS: 4/15/03	DATE: 3/20/03	CHECKED BY: _____
DATE: _____	DATE: _____	DATE: _____
DATE: _____	DATE: _____	DATE: _____

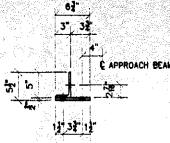
D'D CONSTRUCTION INC.
 GENERAL CONTRACTOR
 1488 SO. BROADWAY
 COAL CITY, ILLINOIS 60416

SHEET TITLE		REPAIR DETAILS		JOB NO:
STRUCTURE	BRIDGE REHABILITATION	CONTRACT # 60193 PROJECT # C-91-366-96		SHEET NO:
LOCATION	FAR ROUTE 112 (ILLINOIS 53 RIBY STREET) SECTION M-B-DR-4-I-1	WILL COUNTY, ILLINOIS		100
ENGINEER	PARSONS BRINCKERHOFF			
ARCHITECT	STRUCTURE # 098-9901			

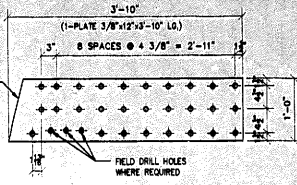


ONE - TRUSS GAURD ANGLE AS SHOWN - D101
ONE - TRUSS GAURD ANGLE OPPOSITE - E101
 REFERENCE SHEET # 16D TRUSS GAURD / SECT. B-B
 FIELD DRILL HOLES 15/16"

SECTION B-B



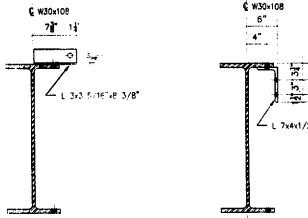
FIELD CUT THIS END TO MATCH EXISTING CURVE



ONE - PLATE - F101
 REFERENCE SHEET # 16D PLATE P1
 SHOP DRILL HOLES 15/16" U.N.O.

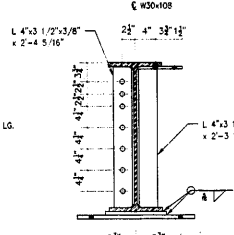
ONE - TRUSS GAURD ANGLE AS SHOWN - A101
ONE - TRUSS GAURD ANGLE OPPOSITE - B101
 REFERENCE SHEET # 16D TRUSS GAURD / SECT. F-F
 FIELD DRILL HOLES 15/16"

SECTION A-A

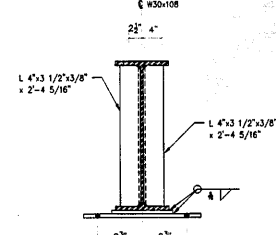


SECTION F-F

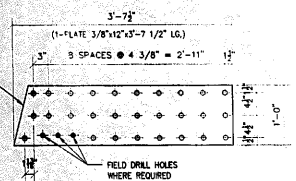
SECTION F-F



SECTION G-G

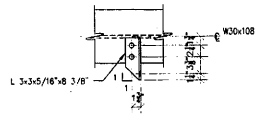


SECTION J-J

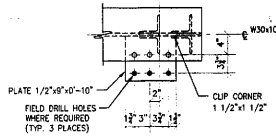


SECTION C-C

ONE - PLATE - G101
 REFERENCE SHEET # 16D PLATE P2
 SHOP DRILL HOLES 15/16" U.N.O.



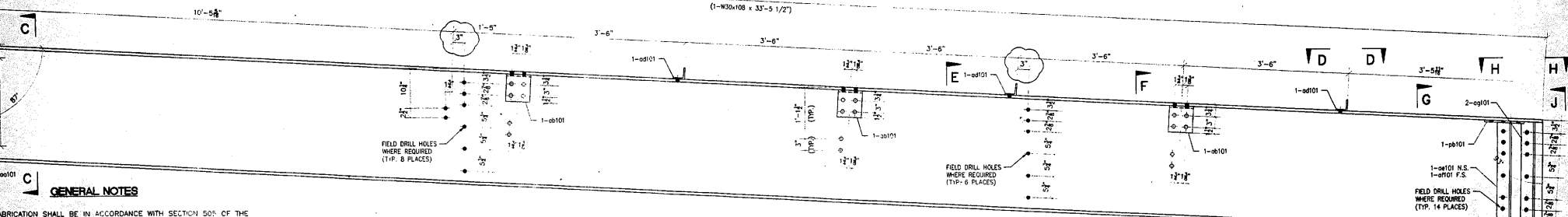
SECTION D-D



SECTION H-H

APPROVED
 For Plans Interpretation and Materials Only
 JAN 30 2004
Ralph E. Anderson
 Engineer of Bridge & Traffic Structures

NO.	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	ONE	L2 1/2x2 1/2x3/8	3'-8 1/4"	A101	
3.					
4.	ONE	L2 1/2x2 1/2x3/8	3'-8 1/4"	B101	
5.					
6.	ONE	L 5x3x3/8	0'-9"	D101	
7.	ONE	PLATE 1/2"x8 3/4"	0'-9"	pd101	
8.					
9.	ONE	L 5x3x3/8	0'-9"	E101	
10.	ONE			pd101	
11.					
12.	ONE	PLATE 3/8" x 12"	3'-10"	F101	
13.					
14.	ONE	PLATE 3/8" x 12"	3'-7 1/2"	G101	
15.					
16.	ONE	W30x108	33'-5 1/2"	H101	
17.	2	L3 1/2x3 1/2x3/8	2'-2"	ad101	
18.	3	L 7x4x1/2	0'-6 1/8"	ab101	
19.	3	L 3x3x5/16	0'-8 3/8"	ad101	
20.	ONE	L4x3 1/2x3/8	2'-3 13/16"	ae101	
21.	ONE	L4x3 1/2x3/8	2'-4 5/16"	af101	
22.	2	L4x3 1/2x3/8	2'-4 5/16"	ag101	
23.	ONE	PLATE 1/2"x9"	0'-10"	pd101	
24.	ONE	PLATE 1"x11"	1'-0"	pd101	BEVELED SOLE BEARING PLATE
25.	ONE	PLATE 3/4"x12"	1'-11"	pd101	
26.					
27.					
28.					
29.					
30.					
31.					
32.					
33.					
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35.					
36.					
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52.					
53.					
54.					



FIELD VERIFY ALL

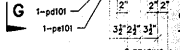
ONE - SIDEWALK STRINGER - H101
 REFERENCE SHEET # 16B
 SHOP DRILL HOLES 15/16" U.N.O.

E

F

LEGEND

- FIELD DRILL HOLES 15/16"
- ◊ SHOP DRILL HOLES 15/16"



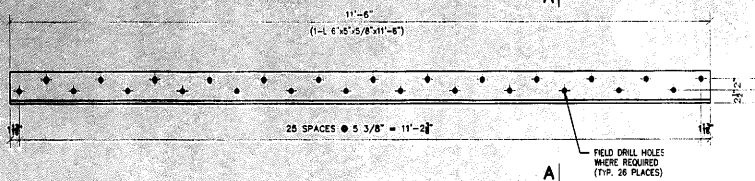
APPROVAL/REVIEW AUTHORITY:		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4"	
PLEASE REVIEW THIS DRAWING CAREFULLY FOR THE CORRECT INFORMATION. THE CONTRACT DOCUMENTS, INCLUDING THE SPECIFICATIONS AND THE GENERAL NOTES, SHALL BE REFERRED TO FOR THE CORRECT INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT INFORMATION.		HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 U.N.	
WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES		NO. BY REVISIONS DATE DRAWN BY: CGF	
REVISIONS TO BE MADE TO THIS DRAWING WHEN IT IS REVISED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT INFORMATION.		DATE: 3/20/03	
REVISIONS TO BE MADE TO THIS DRAWING WHEN IT IS REVISED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT INFORMATION.		CHECKED BY:	
REVISIONS TO BE MADE TO THIS DRAWING WHEN IT IS REVISED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT INFORMATION.		DATE:	
REVISIONS TO BE MADE TO THIS DRAWING WHEN IT IS REVISED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT INFORMATION.		APPROVED:	



D' CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1488 SO. BROADWAY
 COAL CITY, ILLINOIS 60416

SHEET TITLE	REPAIR DETAILS	JOB NO.
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	CONTRACT # 00153 PROJECT # C-91-366-96	SHEET NO.
ENGINEER	F.A.P. ROUTE 112 (UNION ST) RUBY STREET SECTION M-8-DR-4-1-1	101
ARCHITECT	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF STRUCTURE # 099-9501	

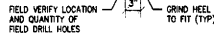
ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
 DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS



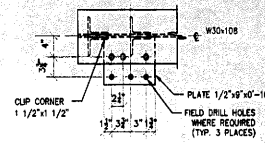
2 - ROADWAY STRINGERS - A102

REFERENCE SHEET # 16B

FIELD DRILL HOLES 15/16"

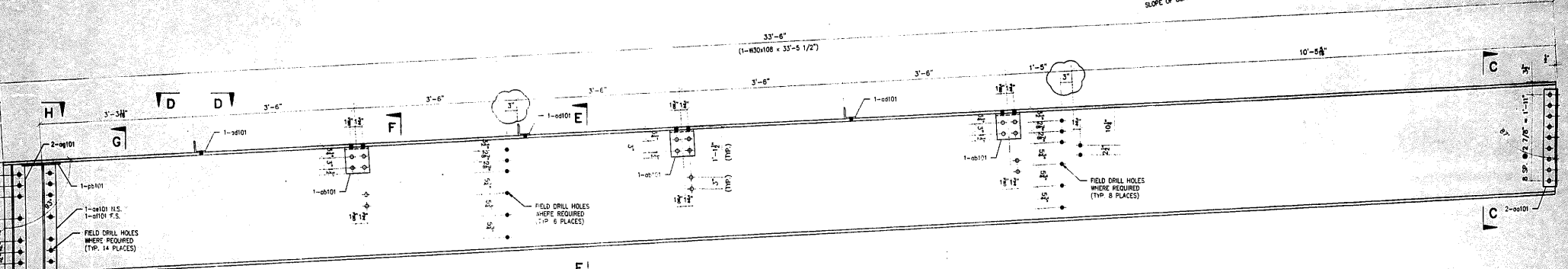
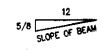


SECTION A-A



SECTION H-H

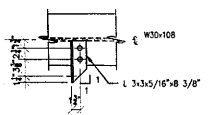
NO.	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	2	L 6x5x5/8"	11'-6"	A102	CUT FROM LEGS/10
3.					
4.	ONE	W30x108	33'-5 1/2"	B102	
5.	2	L3 1/2x3 1/2x3/8	2'-2"	qd10	
6.	3	L 7x4x1/2"	0'-6 1/8"	sb10	
7.	3	L 3x3x5/16"	0'-8 3/8"	qd10	
8.	ONE	L4x3 1/2x3/8"	2'-3 13/16"	qd10	
9.	ONE	L4x3 1/2x3/8"	2'-4 5/16"	qd10	
10.	2	L4x3 1/2x3/8"	2'-4 5/16"	qd10	
11.	ONE	PLATE 1/2"x9"	0'-10"	pd10	
12.	ONE	PLATE 1"x11"	1'-0"	pd10	BEVELED SOLE
13.	ONE	PLATE 3/4"x12"	1'-11"	pd10	BEARING PLATE
14.					
15.					
16.					



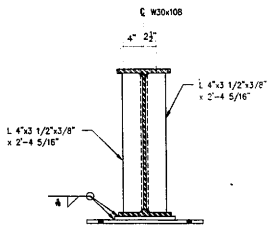
ONE - SIDEWALK STRINGER - B102

REFERENCE SHEET # 16C

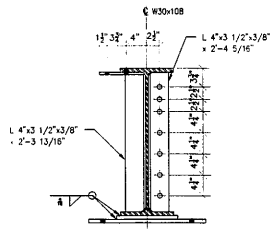
SHOP DRILL HOLES 15/16" U.N.O.



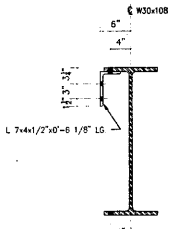
SECTION D-D



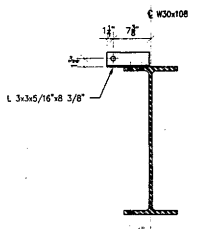
SECTION J-J



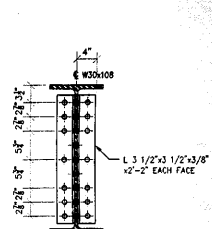
SECTION G-G



SECTION F-F



SECTION E-E



SECTION C-C

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO AISC 360 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M14 ONLY, 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GRIND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BLASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT - INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINX H.S.)
C. FIELD PAINT - MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

FIELD VERIFY ALL

LEGEND

- FIELD DRILL HOLES 15/16"
- SHOP DRILL HOLES 15/16"

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. IF CORRECTIONS OR REVISIONS ARE REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD FOR THE CORRECTIONS. REVISIONS SHALL BE MADE TO THE DRAWING AND THE ENGINEER OF RECORD SHALL SIGN AND DATE THE REVISIONS. THE ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE FIELD WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRODUCTION OF FABRICATION DRAWINGS.	PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XXI MAT=ASTM A 36 U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
NO. BY REVISIONS DATE DRAWN BY: CGF	DATE: 3/20/03
DATE: 3/20/03	CHECKED BY:
DATE:	APPROVED:

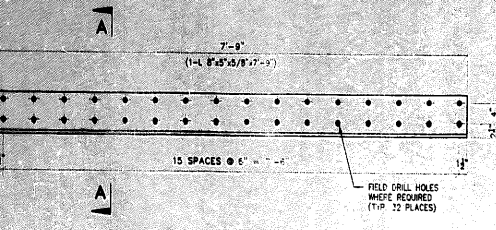


SHEET TITLE	REPAIR DETAILS	JOB NO.
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	CONTRACT # 60193 PROJECT # C-91-368-96	SHEET NO.
ENGINEER	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-8-DK-4-1-1	
ARCHITECT	WILL COUNTY, ILLINOIS	
	PARSONS BRINCKERHOFF	
	STRUCTURE # 099-9901	

APPROVED
For Means, Design and Materials Only
JAN 30 2004
Ralph E. Anderson
Engineer of Bridge & Traffic Structures

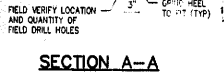
SCALE: 1"=1'

102

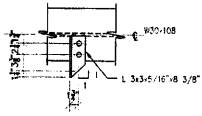


2 - ROADWAY STRINGERS - A103

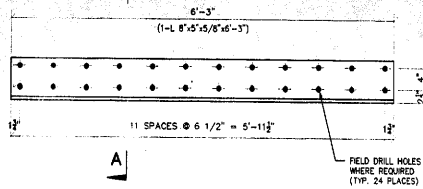
REFERENCE SHEET # 16E
FIELD DRILL HOLES 15/16"



SECTION A-A

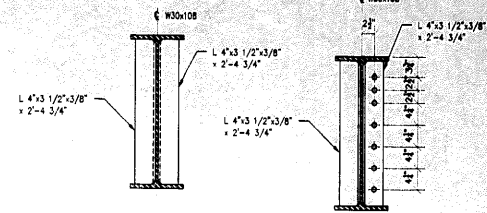


SECTION C-C



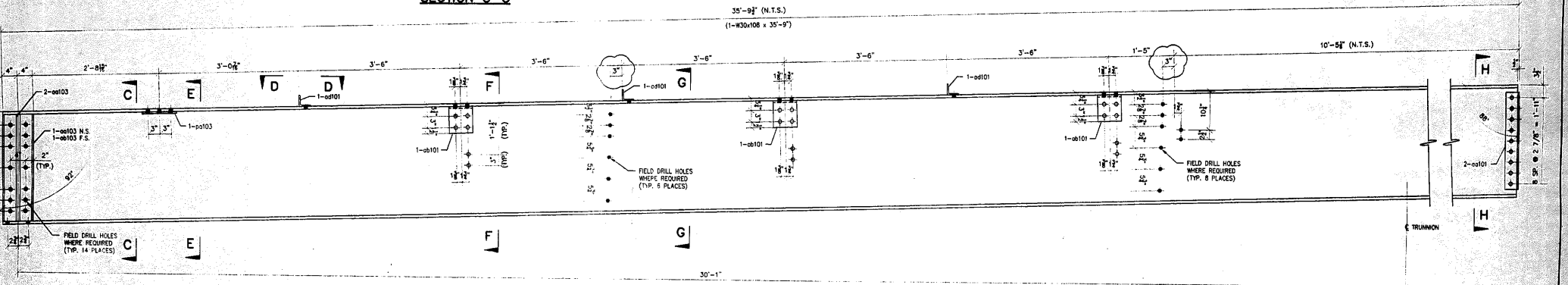
2 - ROADWAY STRINGERS - B103

REFERENCE SHEET # 16F
FIELD DRILL HOLES 15/16"



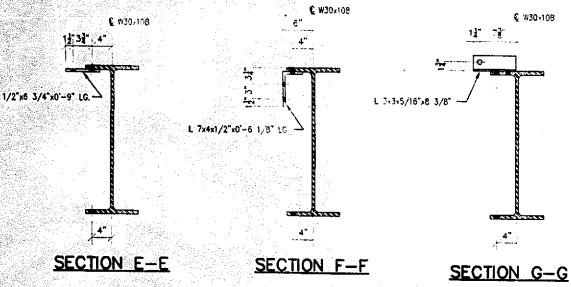
SECTION B-B

SECTION D-D



ONE - SIDEWALK STRINGER - AS SHOWN - E103
ONE - SIDEWALK STRINGER - OPPOSITE - D103

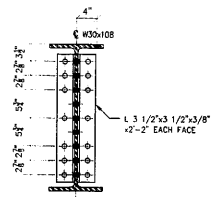
REFERENCE SHEET # 16F / 16F
SHOP DRILL HOLES 15/16" U.N.O.



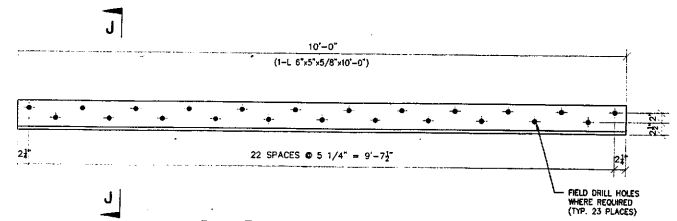
SECTION E-E

SECTION F-F

SECTION G-G

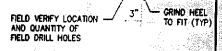


SECTION H-H



2 - ROADWAY STRINGERS - F103

REFERENCE SHEET # 16F
FIELD DRILL HOLES 15/16"



SECTION J-J

FIELD VERIFY ALL

GENERAL NOTES
 1. FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
 2. STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
 3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS 1/4" GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 1/16" UNLESS NOTED.
 4. STRUCTURAL STEEL MAY BE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
 5. CURVES IN PLATES AND ANGLES ARE FLAME CUT. THEY SHALL BE GROUND SMOOTH.

LEGEND
 * FIELD DRILL HOLES 15/16"
 • SHOP DRILL HOLES 15/16"

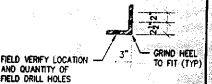
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. FOR THE CONTRACTOR'S USE ONLY. THIS DRAWING IS THE PROPERTY OF THE ENGINEER. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4"	
HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 } U.N.		WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	
NO. BY	REVISIONS	DATE	DRAWN BY: CGF
1	CMH	4/15/03	DATE: 3/20/03
2	CMH		CHECKED BY:
3			DATE:
4			APPROVED:

D' CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1466 S.O. BROADWAY
 COAL CITY, ILLINOIS 60416

SHEET TITLE		REPAIR DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION		
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96		SHEET NO:
ENGINEER	F.A.P. ROUTE 112 (ILLINOIS 53 RIVER STREET) SECTION M-B-1R-4-1-1		103
ARCHITECT	WILL COUNTY, ILLINOIS		
	PARSONS BRINCKERHOFF		
	STRUCTURE # 099-9901		

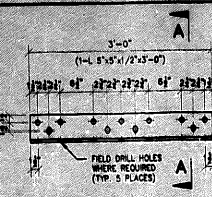
#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	2	L 6x5x5/8"	7'-0"	A103	CUT FROM L6x5/8"
3.					
4.	2	L 6x5x5/8"	6'-3"	B103	CUT FROM L6x5/8"
5.					
6.	ONE	W30x108	35'-9"	E103	
7.	2	L3 1/2x3 1/2x3/8"	2'-2"	cd101	
8.	3	L 7x4 1/2x7/8"	0'-6 1/8"	cd101	
9.	3	L 3x3x5/16"	0'-8 3/8"	cd101	
10.	2	L4x3 1/2x3/8"	2'-4 3/4"	cd103	
11.	2	L4x3 1/2x3/8"	2'-4 3/4"	cd103	
12.	ONE	PLATE 1/2"x6 3/4"	0'-9"	pd103	
13.					
14.	ONE	W30x108	35'-9"	E103	
15.	2			cd101	
16.	3			cd101	
17.	3			cd101	
18.	2			cd103	
19.	2			cd103	
20.	ONE			pd103	
21.					
22.	2	L 6x5x5/8"	10'-0"	F103	CUT FROM L6x5/8"

APPROVED
 For Plans, Specifications and Materials Only
 JAN 3 0 2004
 Ralph E. Anderson
 Engineer of Bridge & Traffic Structures

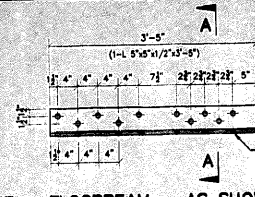


FIELD VERIFY LOCATION AND QUANTITY OF FIELD DRILL HOLES

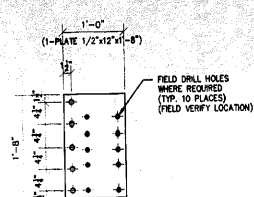
SCALE: 1"=1'



FLOORBEAM AS SHOWN - A104
ONE - FLOORBEAM - OPPOSITE - AA104
 REFERENCE SHEET # 16G
 FLOORBEAM "C" NORTH END
 SHOP DRILL HOLES 15/16" U.N.O.



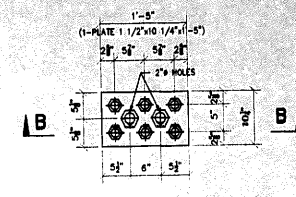
ONE - FLOORBEAM - AS SHOWN - B104
ONE - FLOORBEAM - OPPOSITE - D104
 REFERENCE SHEET # 16G
 FLOORBEAM "C" SOUTH END
 SHOP DRILL HOLES 15/16" U.N.O.



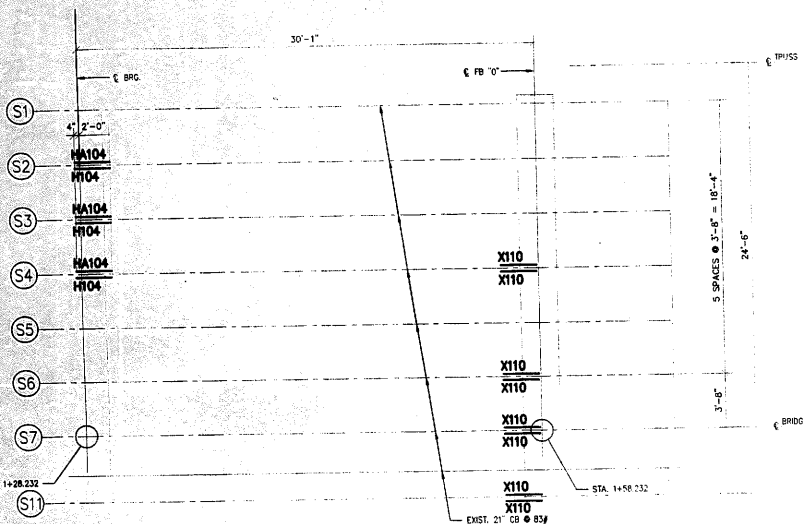
2 - FLOORBEAM PLATES - E104
 REFERENCE SHEET # 16G
 FLOORBEAM "C" PLATE
 SHOP DRILL HOLES 15/16" U.N.O.



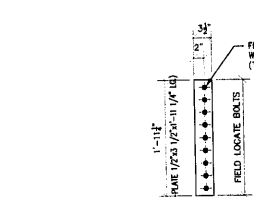
SECTION A-A



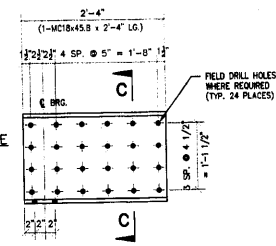
4 - ANCHORAGE RODS REPAIR PLATES - F104
 REFERENCE SHEET # 16G
 ANCHORAGE ROD REPAIR DETAIL
 SHOP DRILL HOLES 1 5/8" U.N.O.



REFERENCE PARTIAL PLAN WEST FIXED SPAN
 REFERENCE SHEET # 16H
 SCALE: 1/4"=1'-0"



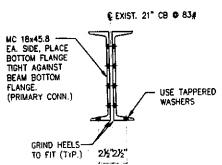
SECTION D-D
 SECTION THRU COUNTERSUNK HOLE
 SCALE: NONE



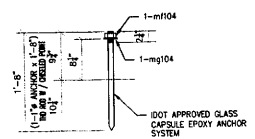
3 - ROADWAY STRINGER REPAIR AS SHOWN - H104
3 - ROADWAY STRINGER REPAIR OPPOSITE - HA104
 REFERENCE SHEET # 16H
 ROADWAY STRINGER ELEVATION / SECTION A-A
 FIELD DRILL HOLES 15/16"

4 - PLATES - G104

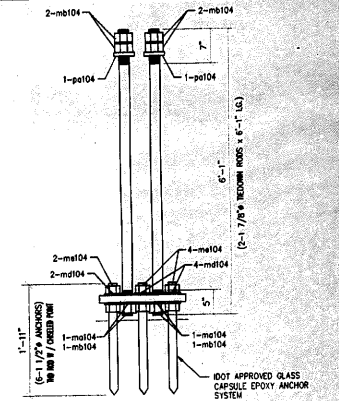
REFERENCE SHEET # 16G
FLOORBEAM "C" NORTH END / SOUTH END PLATES
 FIELD DRILL HOLES 15/16"



SECTION C-C



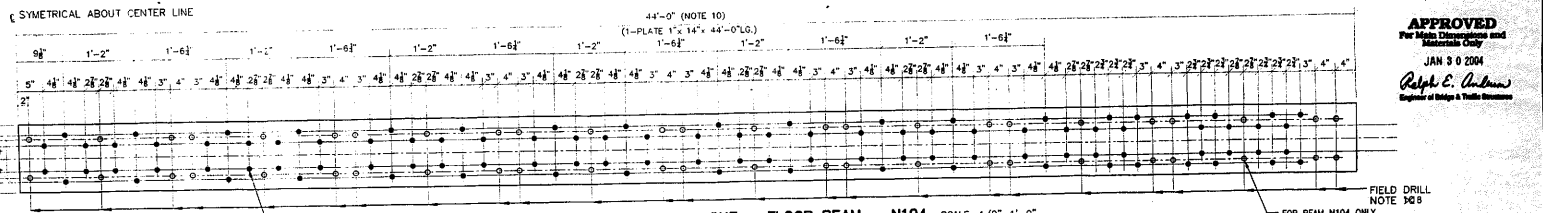
2 - BUMPER BLOCK ANCHOR BOLTS - K104
 (HOT DIPPED GALVANIZED)
 REFERENCE SHEET # 16H
 PROPOSED BUMPER BLOCK



SECTION B-B
FIELD VERIFY ALL

GENERAL NOTES

- FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 5 OF THE STANDARD SPECS.
- STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING MECHANICALLY GUIDED.
- CURVES IN PLATES AND ANGLES ARE FLAME CUT. THEY SHALL BE GRIND SMOOTH.
- PAINT:
- A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC SP10 TO PROFILE OF 1 TO 2.5 MILS.
- B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
- C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- WELD METAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS.
- REMOVE EXISTING HOLES TO FIELD DRILL HOLES IN NEW PLATES.



ONE - FLOOR BEAM - N104 SCALE: 1/2"=1'-0"
 REFERENCE SHEET # 22K - FLOOR BEAM FB WEST LEAF / TOP COVER PLATE SCALE: 1"=1" U.N.O.

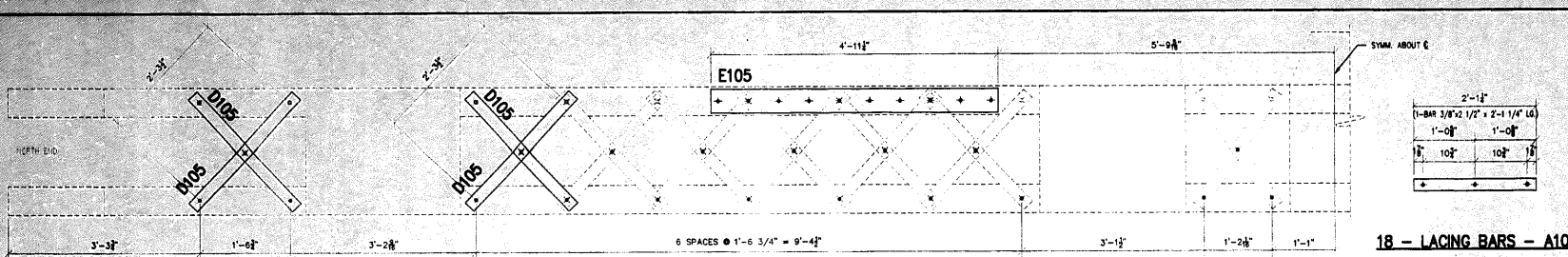
LEGEND (EXCEPT BEAM N104)
 * FIELD DRILL HOLES 15/16"
 * SHOP DRILL HOLES 15/16"

APPROVAL/REVIEW AUTHORITY:
 PLEASE REFER TO THE REVISIONS AND THE DATE OF THE REVISIONS FOR THE LATEST REVISIONS.
 WELDS: 1/4"
 HOLES: 15/16" WELDS = E70XX | NITS = ASTM A 36 U.N.
 WIRE FOR SHIMMENT ALL LOOSE CLIP ANGLES
 NO. BY REVISIONS DATE DRAWN BY: CGF
 GHI REVISED PER COMMENTS 1/9/00 DATE: 3/20/03
 GHI FINAL ISSUE 1/9/00 CHECKED BY: DATE:
 APPROVED:

D' CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1450 SO. BROADWAY
 COAL CITY, ILLINOIS 60416

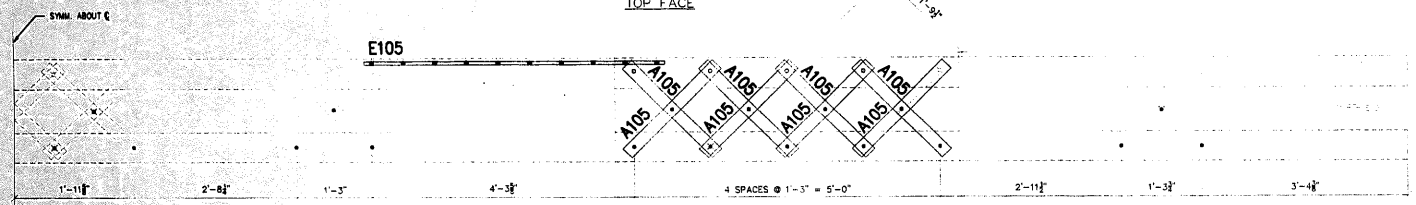
SHEET TITLE		REPAIR DETAILS		JOB NO:	
STRUCTURE	BRIDGE REHABILITATION	CONTRACT #	60193 PROJECT #	C-91-366-96	SHEET NO:
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RIGHT STREET) SECTION #8-B-10-4-1-1	WILL COUNTY, ILLINOIS	PARSONS BRINCKERHOFF	STRUCTURE #	099-9801
ENGINEER	PARSONS BRINCKERHOFF	ARCHITECT	STRUCTURE #	099-9801	104

APPROVED
 For Main Drawing and
 Revision
 JAN 9 2004
 Ralph E. Anthon
 Engineer of Bridge & Traffic Structures



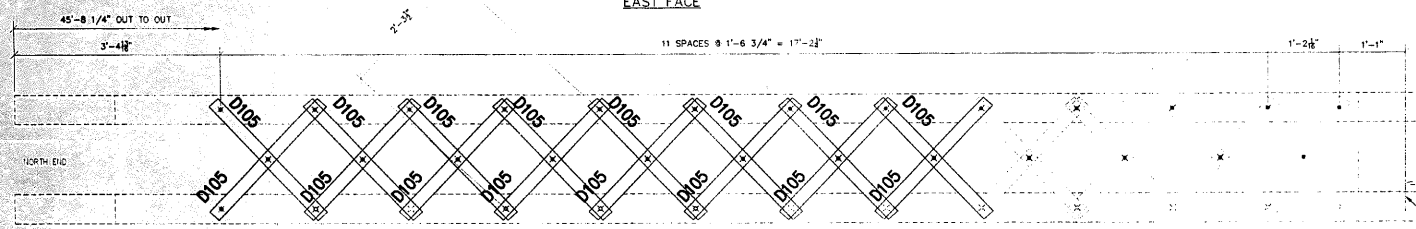
REFERENCE FLOORBEAM #1 STRUT EAST LEAF

REFERENCE SHEET # 22G
TOP FACE



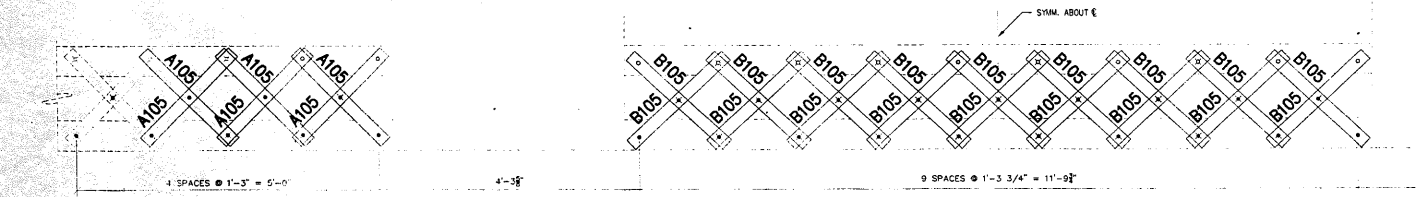
REFERENCE FLOORBEAM #1 STRUT EAST LEAF

REFERENCE SHEET # 22G
EAST FACE



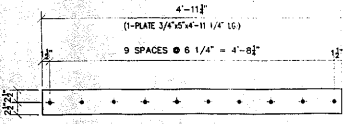
REFERENCE FLOORBEAM #1 STRUT EAST LEAF

REFERENCE SHEET # 22H
BOTTOM FACE



REFERENCE FLOORBEAM #1 STRUT EAST LEAF

REFERENCE SHEET # 22H
WEST FACE



ONE - PLATE - E105

LEGEND

- ◆ FIELD DRILL HOLES 13/16"
- ◇ SHOP DRILL HOLES 13/16"

APPROVAL REVIEW AUTHORITY:
PLEASE REVIEW THIS DRAWING CAREFULLY.
HOLDINGS: 15/166 WELDS = E70XX (MATL=ASTM A 38)
WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
NO BY REVISIONS (DATE DRAWN BY: CCF
GAI REVISED PER COMMENTS 1/16/03 DATE: 3/20/03
GAI FINAL ISSUE 1/19/04 CHECKED BY:
DATE:
APPROVED:

PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4"
HOLES: 15/166 WELDS = E70XX (MATL=ASTM A 38)
U.N.
D'D CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

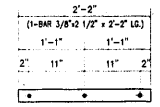


SHEET TITLE	REPAIR DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	SHEET NO:
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96	105
ENGINEER	F.A.P. ROUTE 112 (LIMOS AT RUBY STREET) SECTION N-B-DR-4-1-1	
ARCHITECT	WILL COUNTY, ILLINOIS	
	PARSONS BRINCKERHOFF	
	STRUCTURE # 099-9901	

TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.				
2.	18 BAR 3/8"x2 1/2"	2'-1 1/4"	A105	
3.				
4.	18 BAR 3/8"x2 1/2"	2'-2"	B105	
5.				
6.	20 BAR 3/8"x2 1/2"	2'-7 1/2"	D105	
7.				
8.	ONE PLATE 3/4"x5"	4'-11 1/4"	E105	
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
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24.				
25.				
26.				
27.				
28.				

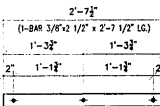
18 - LACING BARS - A105

REFERENCE SHEET # 22G
LACING BAR A



18 - LACING BARS - B105

REFERENCE SHEET # 22G
LACING BAR B



20 - LACING BARS - D105

REFERENCE SHEET # 22G
LACING BAR C

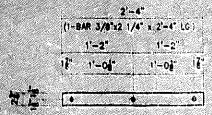
GENERAL NOTES

1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
6. CLEAN & PAINT:
 - A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK-RICH)
 - C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

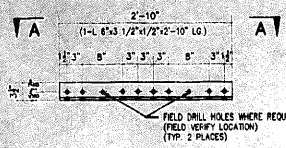
APPROVED
Per Month Drawings and
Materials Only
JAN 30 2004
Ralph E. Anderson
Engineer of Bridge & Traffic Structures

FIELD VERIFY ALL

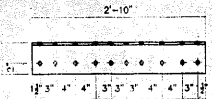
SCALE: 1"=1'



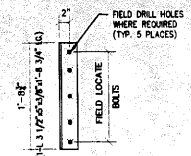
32 - LACING BARS - A106
REFERENCE SHEET # 22J



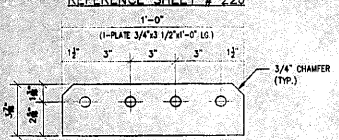
ONE - SPLICE ANGLE - B106
REFERENCE SHEET # 22J



2 - VERTICAL STIFFENERS - D106
REFERENCE SHEET # 22J

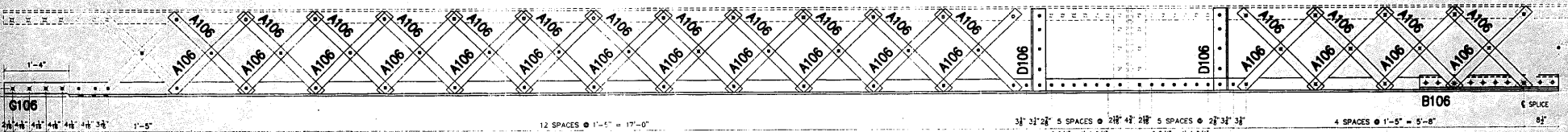


2 - FILL PLATE - E106
REFERENCE SHEET # 22J
SCALE: 3"=1'-0"



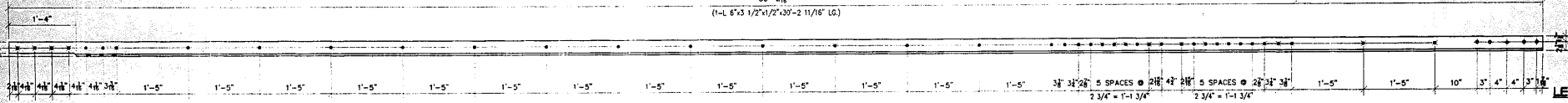
ONE - FILL PLATE - F106
REFERENCE SHEET # 22J
SCALE: 3"=1'-0"

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	32	BAR 3/8"x1/4"	2'-4"	A106	
3.					
4.	ONE	L 6"x3 1/2"x1/2"	2'-10"	B106	
5.					
6.	2	L 3 1/2"x5"x3/8"	1'-8 3/4"	D106	
7.					
8.	2	PLATE 3/4"x3 1/2"	0'-6"	E106	
9.					
10.	ONE	PLATE 3/4"x3 1/2"	1'-0"	F106	
11.					
12.	ONE	L 6"x3 1/2"x1/2"	30'-2 11/16"	G106	
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					



REFERENCE FLOORBEAM #2 STRUT EAST LEAF
REFERENCE SHEET # 22J
FACING EAST

FIELD VERIFY ALL



ONE - STRUT ANGLE - G106
REFERENCE SHEET # 22J

LEGEND
 + FIELD DRILL HOLES 13/16"
 + SHOP DRILL HOLES 13/16"

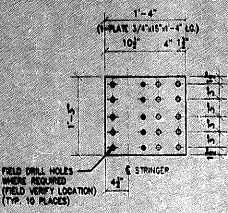
APPROVED
For Main Dimensions and Materials Only
 JAN 3 0 2004
Ralph E. Anderson
 Engineer of Bridge & Traffic Structures

- GENERAL NOTES**
- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
 - ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
 - BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
 - STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
 - IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
 - CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
 - NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS
 ZONE 2
 SCALE: 1"=1' U.N.O.

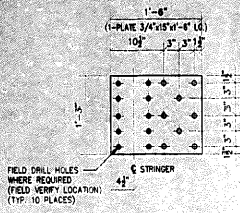
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY TO VERIFY THAT ALL DIMENSIONS AND MATERIALS ARE CORRECTLY SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF THE DIMENSIONS OF THE DRAWING, AND THE RESPONSIBILITY OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.		PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" UNLESS OTHERWISE NOTED WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES		HELDS: 1/4" U.N.	
NOI BY	REVISIONS	DATE	DRAWN BY	CGF	
Δ	CAH REVISED PER COMMENTS	4/15/03	DATE:	3/20/03	
Δ	CAH ADDED EXTRA PIECES	4/15/03	CHECKED BY:		
Δ	CAH FINAL ISSUE	4/15/03	DATE:		
Δ			APPROVED:		



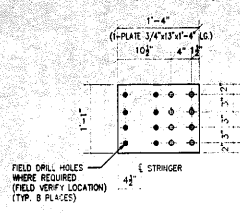
SHEET TITLE	REPAIR DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	CONTRACT # 60193 PROJECT # C-91-366-96 F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-1R-4-L-1	SHEET NO:
ENGINEER	WILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF	106
ARCHITECT	STRUCTURE # 099-9901	



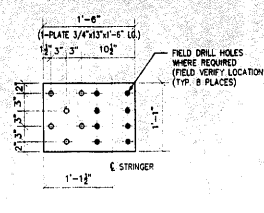
9 - PLATE - A107
REFERENCE SHEET # 22L



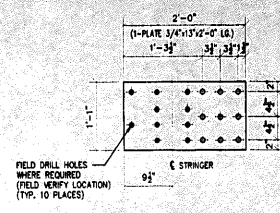
ONE - PLATE - B107
REFERENCE SHEET # 22L



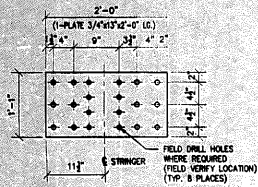
18 - PLATE - D107
3 - REFERENCE SHEET # 22M
3 - REFERENCE SHEET # 22N
3 - REFERENCE SHEET # 22P
5 - REFERENCE SHEET # 22Q
4 - REFERENCE SHEET # 22R



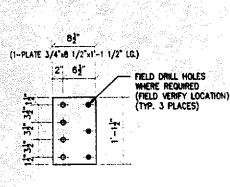
2 - PLATE - E107
ONE - REFERENCE SHEET # 22M
ONE - REFERENCE SHEET # 22N



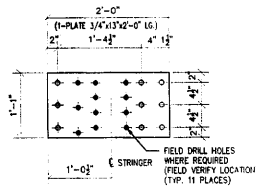
ONE - PLATE - F107
REFERENCE SHEET # 22M



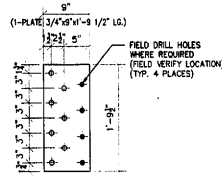
ONE - PLATE - G107
REFERENCE SHEET # 22M



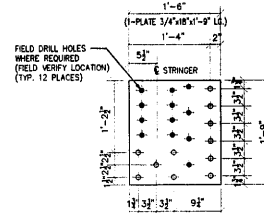
ONE - PLATE - H107
REFERENCE SHEET # 22N



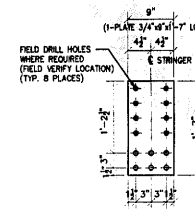
ONE - PLATE - K107
REFERENCE SHEET # 22N



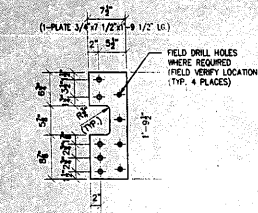
ONE - PLATE - N107
REFERENCE SHEET # 22N



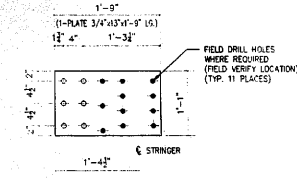
ONE - PLATE - P107
REFERENCE SHEET # 22N



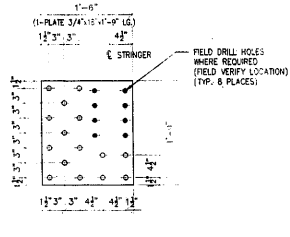
2 - PLATE - T107
ONE - REFERENCE SHEET # 22N
ONE - REFERENCE SHEET # 22P



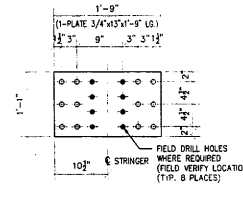
ONE - PLATE - V107
REFERENCE SHEET # 22N



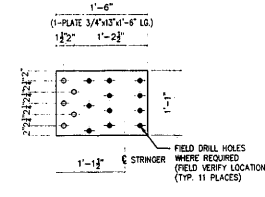
ONE - PLATE - AA107
REFERENCE SHEET # 22N



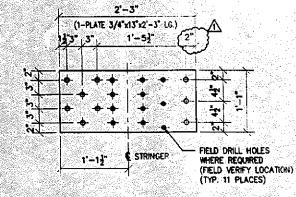
3 - PLATE - AB107
ONE - REFERENCE SHEET # 22N
2 - REFERENCE SHEET # 22P



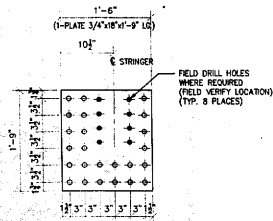
4 - PLATE - AD107
ONE - REFERENCE SHEET # 22P
3 - REFERENCE SHEET # 22R



ONE - PLATE - AE107
REFERENCE SHEET # 22P



ONE - PLATE - AF107
REFERENCE SHEET # 22P



ONE - PLATE - AG107
REFERENCE SHEET # 22P

LEGEND
• FIELD DRILL HOLES 15/16"
○ SHOP DRILL HOLES 15/16"

APPROVAL/REVIEW AUTHORITY: I, _____, hereby approve this drawing as shown for construction. I am a duly licensed Professional Engineer in the State of Illinois. My license number is _____ and my expiration date is _____.	PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" WELDS = E70XX MAT=ASTM A 36 WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
DATE: _____	WELDS: 1/4"
CHECKED BY: _____	DATE: 4/21/03
DATE: _____	APPROVED: _____

D² CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

SHEET TITLE	REPAIR DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	
LOCATION	CONTRACT # 00193 PROJECT # C-91-365-98	SHEET NO:
ENGINEER	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECON # 9-09-4-1-1	107
ARCHITECT	HILL COUNTY, ILLINOIS PARSONS BRINCKERHOFF STRUCTURE # 099-9901	

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	9	PLATE 3/4" x 16"	1'-4"	A107	
3.					
4.	ONE	PLATE 3/4" x 15"	1'-6"	B107	
5.					
6.	18	PLATE 3/4" x 15"	1'-4"	D107	
7.					
8.	2	PLATE 3/4" x 15"	1'-6"	E107	
9.					
10.	ONE	PLATE 3/4" x 15"	2'-0"	F107	
11.					
12.	ONE	PLATE 3/4" x 13"	2'-0"	G107	
13.					
14.	ONE	PLATE 3/4" x 8 1/2"	1'-1 1/2"	H107	
15.					
16.	ONE	PLATE 3/4" x 13"	2'-0"	K107	
17.					
18.	ONE	PLATE 3/4" x 9"	1'-9 1/2"	N107	
19.					
20.	ONE	PLATE 3/4" x 18"	1'-9"	P107	
21.					
22.	2	PLATE 3/4" x 9"	1'-7"	T107	
23.					
24.	ONE	PLATE 3/4" x 7 1/2"	1'-9 1/2"	V107	
25.					
26.	ONE	PLATE 3/4" x 13"	1'-9"	AA107	
27.					
28.	3	PLATE 3/4" x 18"	1'-9"	AB107	
29.					
30.	4	PLATE 3/4" x 13"	1'-9"	AD107	
31.					
32.	ONE	PLATE 3/4" x 13"	1'-6"	AE107	
33.					
34.	ONE	PLATE 3/4" x 13"	2'-3"	AF107	
35.					
36.	ONE	PLATE 3/4" x 18"	1'-9"	AG107	
37.					
38.					

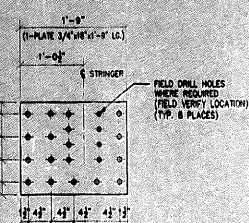
GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZNKG H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

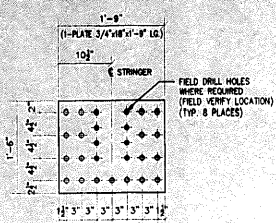
APPROVED
For the State of Illinois
Professional Engineer
JAN 3 0 2004
Ralph E. Anderson
Member of Bridge & Traffic Division

FIELD VERIFY ALL

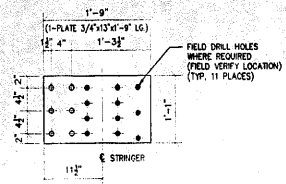
SCALE: 1"=1' U.N.O.



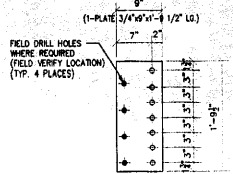
ONE - PLATE - A108
REFERENCE SHEET # 22P



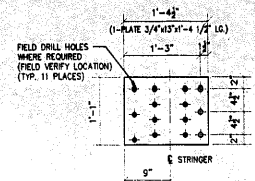
ONE - PLATE - B108
REFERENCE SHEET # 22P



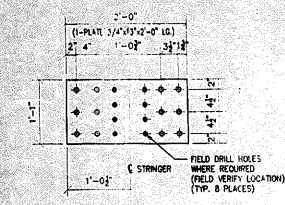
ONE - PLATE - D108
REFERENCE SHEET # 22P



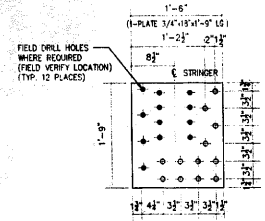
3 - PLATE - E108
REFERENCE SHEET # 22P



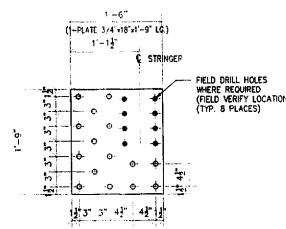
ONE - PLATE - F108
REFERENCE SHEET # 22P



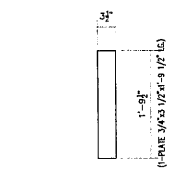
2 - PLATE - G108
ONE - REFERENCE SHEET # 22Q
ONE - REFERENCE SHEET # 22R



ONE - PLATE - K108
REFERENCE SHEET # 22Q



ONE - PLATE - N108
REFERENCE SHEET # 22Q

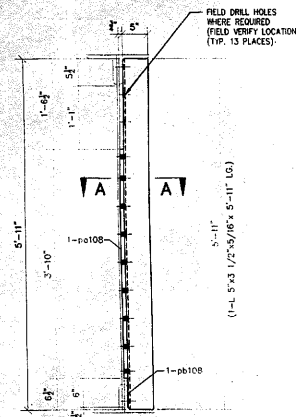


ONE - FILL PLATE - AA108
REFERENCE SHEET # 22P

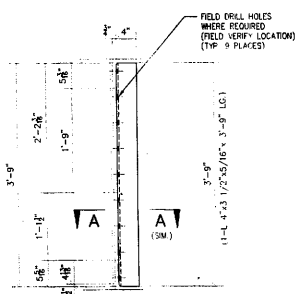


ONE - FILL PLATE - AB108
REFERENCE SHEET # 22Q

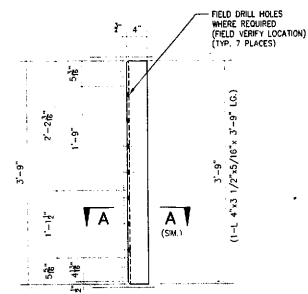
#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.					
3.					
4.	ONE	PLATE 3/4" x 18"	1'-9"	A108	
5.					
6.	ONE	PLATE 3/4" x 18"	1'-9"	B108	
7.					
8.	ONE	PLATE 3/4" x 13"	1'-9"	D108	
9.					
10.	3	PLATE 3/4" x 9"	1'-9 1/2"	E108	
11.					
12.	ONE	PLATE 3/4" x 13"	1'-4 1/2"	F108	
13.					
14.	2	PLATE 3/4" x 13"	2'-0"	G108	
15.					
16.	ONE	PLATE 3/4" x 18"	1'-9"	K108	
17.					
18.	ONE	PLATE 3/4" x 18"	1'-9"	N108	
19.					
20.	ONE	L 5x3 1/2 x5/16"	5'-11"	P108	
21.	ONE	PLATE 3/4" x 3 1/2"	3'-10"	pa108	
22.	ONE	PLATE 1/8" x 3 1/2"	0'-6"	pb108	
23.					
24.	5	L 4x3 1/2 x5/16"	3'-9"	T108	
25.					
26.	30	L 4x3 1/2 x5/16"	3'-9"	V108	
27.					
28.	ONE	PLATE 3/4" x 3 1/2"	1'-9 1/2"	AA108	
29.					
30.	ONE	PLATE 3/4" x 3 1/2"	1'-1 1/2"	AB108	
31.					
32.					
33.					
34.					
35.					
36.					
37.					
38.					



ONE - REPAIR ANGLE - P108
REFERENCE SHEET # 22M TYP. SECTION FLOOR BEAM F3



3 - REPAIR ANGLE AS SHOWN - T108
2 - REPAIR ANGLE OPPOSITE - T108
REFERENCE SHEET # 22N TYP. SECTION FLOOR BEAM F4



14 - REPAIR ANGLE AS SHOWN - V108
16 - REPAIR ANGLE OPPOSITE - V108
REFERENCE SHEET # 22P TYP. SECTION FLOOR BEAM F5, F6 & F7

APPROVED
For Shop Drawings and Materials Only
JAN 30 2004
Ralph E. Anderson
Engineer of Bridge & Traffic Structures

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BLASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

SCALE: 1"=1' U.N.O.

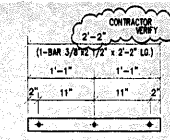
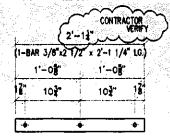
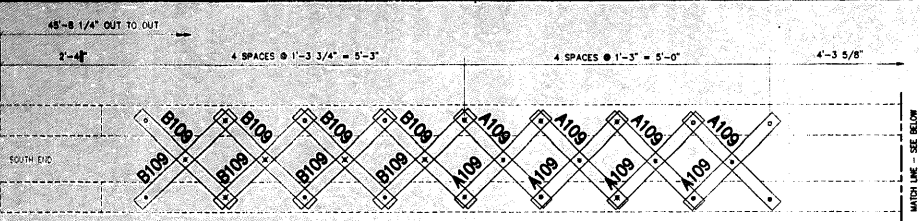
FIELD VERIFY ALL

- LEGEND**
- FIELD DRILL HOLES 15/16"
 - ◊ SHOP DRILL HOLES 15/16"

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. CORRECTED DRAWINGS SHALL BE REVISIONS TO THIS DRAWING. THE ORIGINAL SHALL REMAIN UNCHANGED AND THE ORIGINAL SHALL BE THE APPROVED DRAWING. THIS DRAWING IS THE PROPERTY OF THE ENGINEER AND SHALL BE KEPT IN HIS OFFICE. UNLESS NOTED TO THE CONTRARY, ON THIS DRAWING, WHEN IT IS REVISIONS TO AN APPROVED DRAWING, THE APPROVED DRAWING SHALL BE CONSIDERED AS THE ORIGINAL. ALL REVISIONS MUST BE CHECKED BY THE ENGINEER. ALL REVISIONS MUST BE CHECKED BY THE ENGINEER. ALL REVISIONS MUST BE CHECKED BY THE ENGINEER.		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX (MATL=ASTM A 36) U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	
NO BY	REVISIONS	DATE	DRAWN BY: GAH
GAH	REVISED PER COMMENTS	5/8/03	DATE: 4/21/03
GAH	FINAL ISSUE	1/19/04	CHECKED BY:
GAH			DATE:
GAH			APPROVED:

LD D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

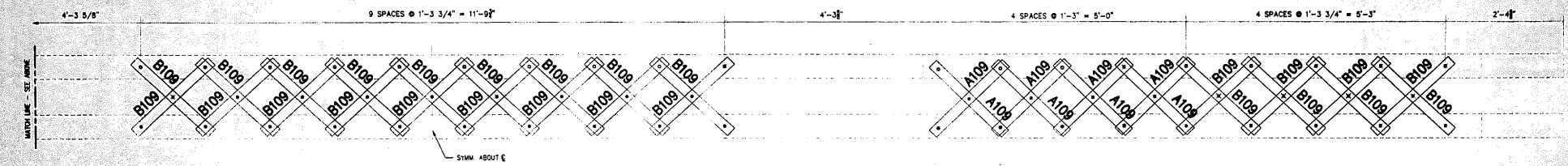
REPAIR DETAILS		JOB NO:
SHEET TITLE	BRIDGE REHABILITATION	
STRUCTURE	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO:
LOCATION	F.A.P. ROUTE 112 (LAMES ST) RYAN STREET SECTION M-8-R-4-I-1 WILL COUNTY, ILLINOIS	108
ENGINEER	PARSONS BRINCKERHOFF	
ARCHITECT	STRUCTURE # 099-9901	



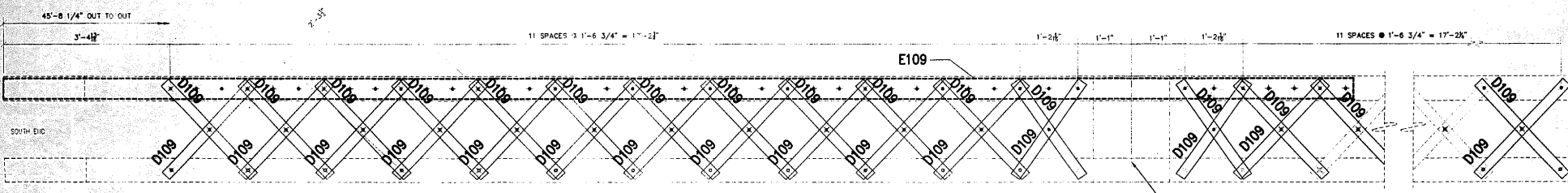
16 - LACING BAR - A109
 REFERENCE SHEET # 22T
 LACING BAR A

34 - LACING BAR - B109
 REFERENCE SHEET # 22T
 LACING BAR B

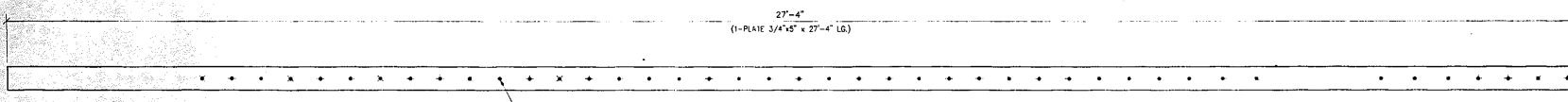
#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	16	BAR 3/8"x2 1/2"	2'-1 1/4"	A109	
3.					
4.	34	BAR 3/8"x2 1/2"	2'-2"	B109	
5.					
6.	31	BAR 3/8"x2 1/2"	2'-7 1/2"	D109	
7.					
8.	ONE	PLATE 3/4"x5"	27'-4"	E109	
9.					
10.					



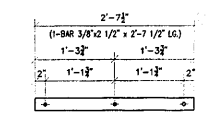
REFERENCE FLOORBEAM #1 STRUT WEST LEAF
 REFERENCE SHEET # 22T
 EAST FACE



REFERENCE FLOORBEAM #1 STRUT WEST LEAF
 REFERENCE SHEET # 22T
 BOTTOM FACE



ONE - PLATE - E109
 REFERENCE SHEET # 22T



31 - LACING BAR - D109
 REFERENCE SHEET # 22T
 LACING BAR C

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 5/95 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 OR 36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 - ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 - SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 - FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

FIELD VERIFY ALL

LEGEND

- FIELD DRILL HOLES
- SHOP DRILL HOLES

3/4" H.S. BOLTS WITH 13/16" HOLES USED FOR LACING BARS

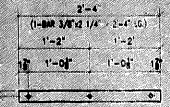
SCALE: 1"=1' U.N.O.

APPROVED
 For Main Dimensions and Materials Only
 JAN 3 0 2004
 Ralph E. Anderson
 Engineer of Bridge & Traffic Structures

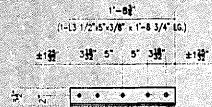
APPROVAL/REVIEW AUTHORITY: <small>PLEASE ADVISE THE DRAWING ENGINEER OF ANY CHANGES TO THE DRAWING. THE DRAWING ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE FIELD WORK.</small>		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX [MATL=ASTM A 36] U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	
NO. BY	REVISIONS	DATE	DRAWN BY: GH
1	GH REVISED PER COMMENTS	5/8/03	DATE: 4/21/03
2	GH FINAL ISSUE	1/19/04	CHECKED BY:
3		DATE:	
4		APPROVED:	

D CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1488 SO. BROADWAY
 COAL CITY, ILLINOIS 60416

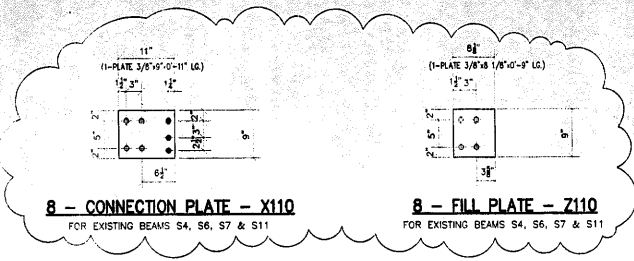
SHEET TITLE	REPAIR DETAILS		JOB NO:
	STRUCTURE	BRIDGE REHABILITATION	
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION #8-BR-4-I-1	PROJECT # C-91-366-96	SHEET NO:
ENGINEER	PARSONS BRINCKERHOFF	WILL COUNTY, ILLINOIS	109
ARCHITECT	STRUCTURE # 090-9901		



16 - LACING BAR - A110
 REFERENCE SHEET # 22U
 LACING BAR



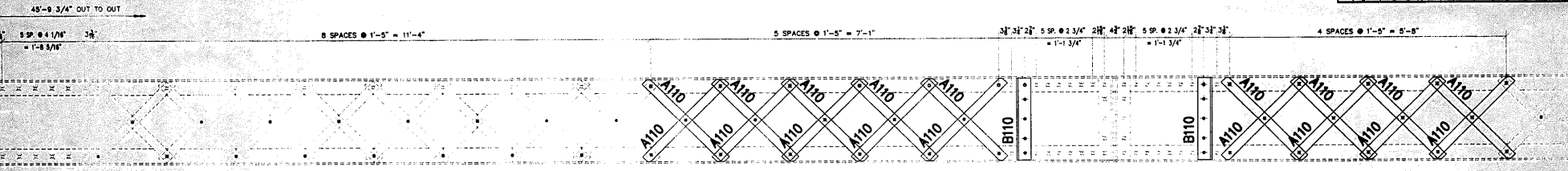
2 - VERTICAL STIFFENER - B110
 (NOT IT)
 REFERENCE SHEET # 22U
 VERTICAL STIFFENERS



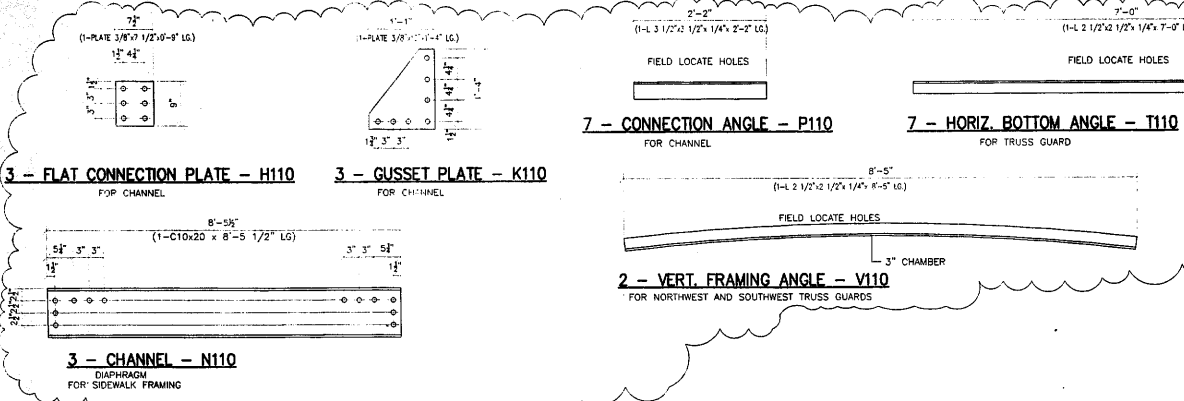
8 - CONNECTION PLATE - X110
 FOR EXISTING BEAMS S4, S6, S7 & S11

8 - FILL PLATE - Z110
 FOR EXISTING BEAMS S4, S6, S7 & S11

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1					
2	18	BAR 3/8"x2 1/4"	2'-4"	A110	
3					
4	2	L 5"x3 1/2"x 3/8"	1'-8 3/4"	B110	
5					
6	3	PLATE 3/8"x7 1/2"	0'-9"	H110	
7					
8	3	PLATE 3/8"x13"	1'-4"	K110	
9					
10	3	C10x20	8'-5 1/2"	N110	
11					
12	7	L 3 1/2"x3 1/2"x1/4"	2'-2"	P110	
13					
14	7	L 2 1/2"x2 1/2"x1/4"	7'-0"	T110	
15					
16	2	L 2 1/2"x2 1/2"x1/4"	8'-5"	V110	3" CHAMBER
17					
18	8	PLATE 3/8"x9"	0'-11"	X110	
19					
20	8	PLATE 3/8"x8 1/8"	0'-9"	Z110	



REFERENCE FLOORBEAM #2 STRUT WEST LEAF
 REFERENCE SHEET # 22U
 WEST FACE



3 - FLAT CONNECTION PLATE - H110
 FOR CHANNEL

3 - GUSSET PLATE - K110
 FOR CHANNEL

7 - CONNECTION ANGLE - P110
 FOR CHANNEL

7 - HORIZ. BOTTOM ANGLE - T110
 FOR TRUSS GUARD

2 - VERT. FRAMING ANGLE - V110
 FOR NORTHWEST AND SOUTHWEST TRUSS GUARDS

3 - CHANNEL - N110
 DIAPHRAGM
 FOR SIDEWALK FRAMING

FIELD VERIFY ALL
 NOTE:
 USE TEMPLATES (ORIGINAL PIECES)
 FROM SITE TO VERIFY ALL HOLES
 SHOWN AND NO SHOWN

APPROVED
 For Field Check and
 Materials Only
 JAN 3 0 2004
Ralph E. Anderson
 Engineer of Bridge & Traffic Structures

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAY BE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 A. ALL STEEL SURFACES TO BE BALASTED TO SPEC. SFC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHEPPERS WILLIAMS ZINK M.S.)
 C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP FINISH.
- NTR DENOTES MATERIAL TO MEET SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2

SIDEWALK AND TRUSSGUARD REPLACEMENT STEEL

FIELD VERIFY ALL

LEGEND

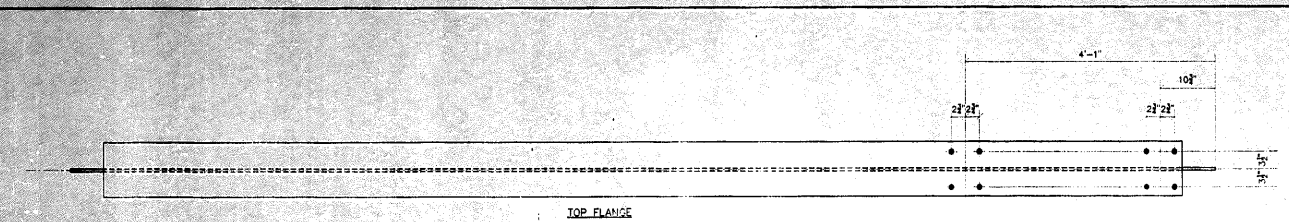
- ◆ FIELD DRILL HOLES
 - SHOP DRILL HOLES
- 3/4" H.S. BOLTS WITH 13/16" HOLES USED FOR LACING BARS
 7/8" H.S. BOLTS WITH 15/16" HOLES USED FOR ALL OTHER LOCATIONS

SCALE: 1"=1' U.N.O.

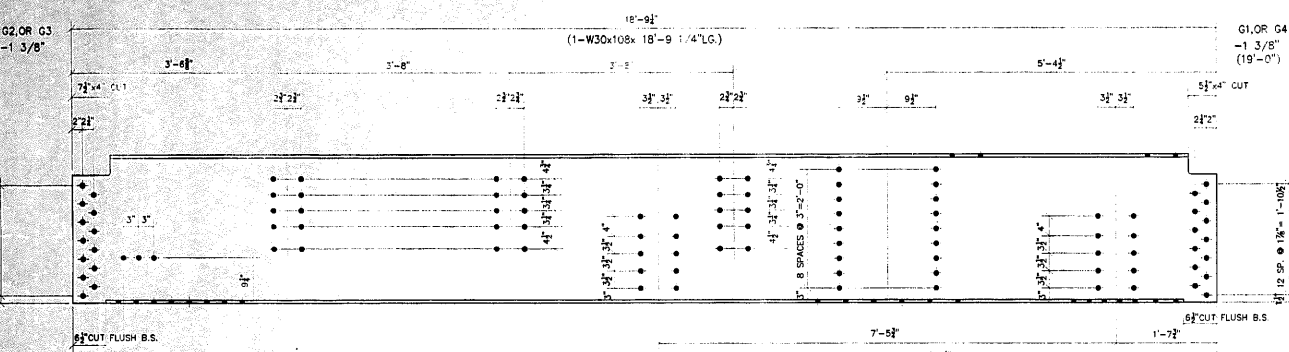
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY FOR CORRECTIONS AND APPROVALS. THE REVIEWER IS RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION SHOWN ON THIS DRAWING. ANY CHANGES TO THE DRAWING SHALL BE MADE BY THE DESIGNER AND THE APPROVAL OF THE ENGINEER. ANY CHANGES TO ADDITIONAL SHEETS OR THIS DRAWING SHALL BE MADE BY THE DESIGNER AND THE APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS AND MATERIALS SHOWN ON THIS DRAWING AND SHALL BE RESPONSIBLE FOR THE PRODUCTION OF THE FABRICATION DRAWINGS.		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX MATL=ASTM A 36 U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	
NO. BY	REVISIONS	DATE	DRAWN BY: GAH
1	GAH	4/22/03	
2	REVISED PER COMMENTS		
3	CHECKED BY:		
4	DATE:		
5	APPROVED:		

D' CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1488 SO. BROADWAY
 COAL CITY, ILLINOIS 60416

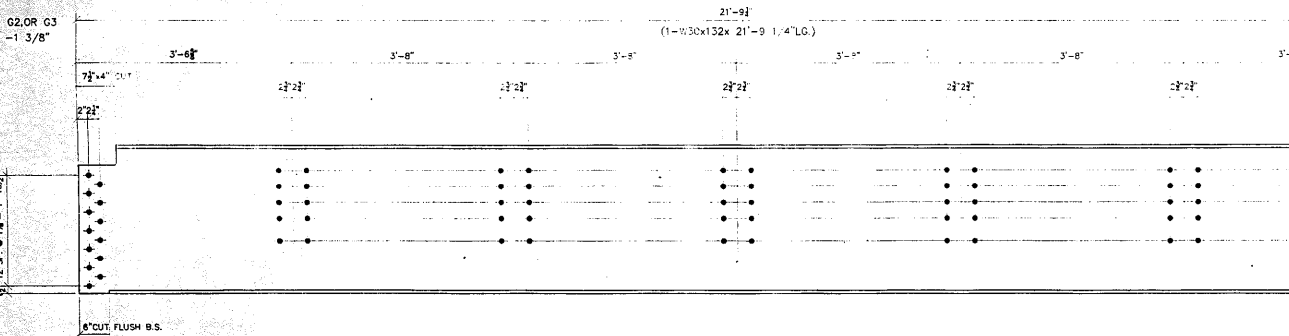
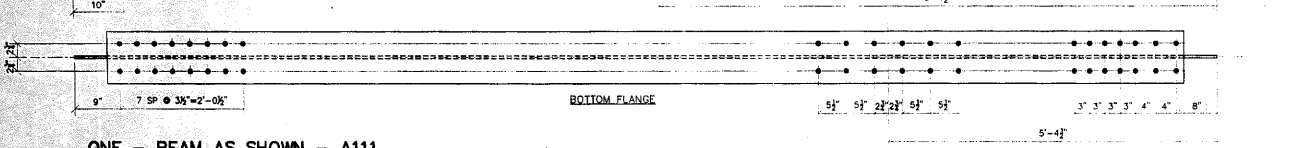
REPAIR DETAILS		JOB NO.:
SHEET TITLE	BRIDGE REHABILITATION	
STRUCTURE	CONTRACT # 60193 PROJECT # C-91-368-96	SHEET NO.:
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION W-8-W-4-1-1	110
ENGINEER	WILL COUNTY, ILLINOIS	
ARCHITECT	PARSONS BRINCKERHOFF STRUCTURE # 059-9901	



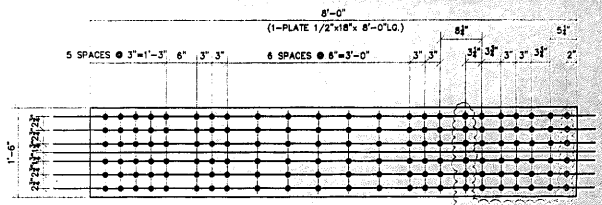
LEGEND
 • FIELD DRILL HOLES
 • SHOP DRILL HOLES
 3/4" H.S. BOLTS WITH 13/16" HOLES USED FOR LACING BARS
 7/8" H.S. BOLTS WITH 15/16" HOLES USED FOR ALL OTHER LOCATIONS



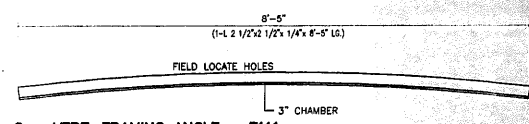
ONE - BEAM AS SHOWN - A11
 NORTH EAST ELEVATION OF FB" C"
ONE - BEAM AS OPPOSITE - B111
 SOUTH



ONE - BEAM - D111
 CENTER EAST ELEVATION OF FB" C"



ONE - PLATE - E111
 HORIZONTAL GIRDER SPICE ABOVE FLOOR BEAM F1 WEST LEAF



2 - VERT. FRAMING ANGLE - F111
 FOR NORTHEAST AND SOUTHEAST TRUSS GUARDS

FIELD VERIFY ALL

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET 'SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2'
- USE EXISTING HOLES TO FIELD DRILL HOLES IN NEW PLATES.
- REENTRANT CUTS SHALL HAVE A 3/4" MINIMUM RADIUS.

APPROVED
 For Steel Detailing and Materials Only
 JAN 30 2004
Ralph E. Anderson
 Engineer of Bridge & Traffic Structures

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY IF APPROVED SIGN AND DATE. IF NOT APPROVED STATE REASON FOR REJECTION. THE DRAWING IS TO BE USED FOR FABRICATION OF THE STRUCTURE FOR THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF THE DIMENSIONS.	PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4" HOLES: 15/16" WELDS = E70XX MAT = ASTM A 36 U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES
NO. BY REVISIONS DATE DRAWN BY: GAH 1 GAH ISSUED FOR APPROVAL 5/15/03 DATE: 5/15/03 2 GAH REVISED PER COMMENTS 6/11/03 CHECKED BY: DATE: APPROVED:	

D' CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1485 SO. BROADWAY
 COAL CITY, ILLINOIS 60416

SHEET TITLE	REPAIR DETAILS	JOB NO:
STRUCTURE	BRIDGE REHABILITATION	
	CONTRACT # 60193 PROJECT # C-91-366-96	SHEET NO:
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-4-1-1	
ENGINEER	WILL COUNTY, ILLINOIS	
ARCHITECT	PARSONS BRINCKERHOFF STRUCTURE # 099-9901	

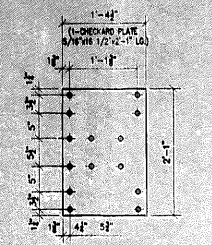
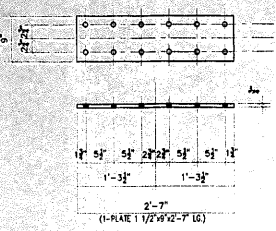


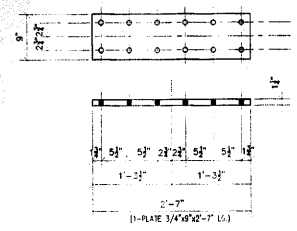
PLATE AS SHOWN - A112
PLATE OPPOSITE - A112

WALKWAY COVER PLATE @ FLOOR BEAM
ON WEST LEAF AND AT FLOOR BEAM 8 ON
EAST LEAF (REFERENCE SHIT 37 SECT. C-C)



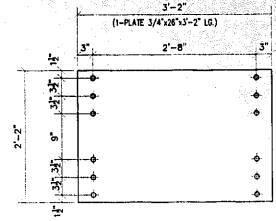
ONE - BEARING PLATE SHIMS - B112

WEST REAR LIVE LOAD ANCHORAGES
@ NORTHWEST



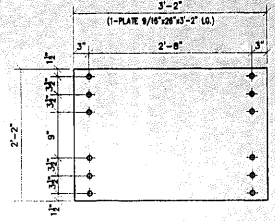
ONE - BEARING PLATE SHIMS - D112

WEST REAR LIVE LOAD ANCHORAGES
@ SOUTHWEST



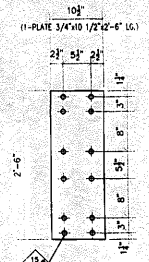
ONE - PLATE - E112

UPPER LIVE LOAD SUPPORT SHIMS
NORTHWEST



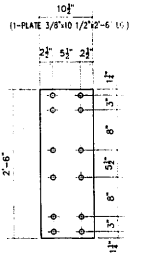
3 - PLATE - F112

UPPER LIVE LOAD SUPPORT SHIMS
SOUTHWEST, NORTHEAST, SOUTHEAST



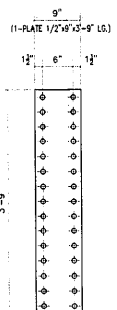
2 - PLATE - G112

EAST REAR ANCHORAGE WEAR PLATES
MOUNTED TO BOTTOM FLANGE OF
OF FR' C @ & OF TRUSS ARM



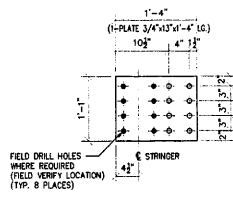
2 - PLATE - H112

EAST REAR ANCHORAGE SHIM PLATES
MOUNTED TO BOTTOM FLANGE OF
FR' C @ & OF TRUSS ARM



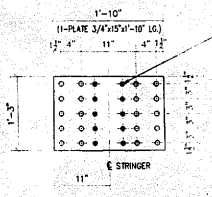
ONE - PLATE - K112

REPAIR PLATE FOR T/FLG OF FLOOR BEAM "D"
ON EAST APPROACH AT NORTH END TIGHT AGAINST
WB SIDEWALK STRINGER



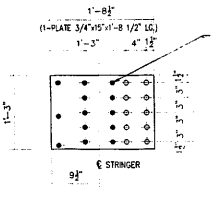
2 - PLATE - N112

REFERENCE SHEET # 6



ONE - PLATE - P112

REFERENCE SHEET # 6



2 - PLATE - T112

REFERENCE SHEET # 6

#	TOTAL	SHAPE	LENGTH	MARK	REMARKS
11					
12	3	OK. PL. 5/16 x 16 1/2	2'-1"	A112	
13					
14	ONE	PLATE 3/4" x 9"	2'-7"	B112	
15	ONE	PLATE 1 1/4" x 9"	2'-7"	D112	
16	ONE	PLATE 3/4" x 26"	3'-2"	E112	
17					
18	3	PLATE 9/16" x 26"	3'-2"	F112	
19					
20	2	PLATE 3/4" x 10 1/2"	2'-6"	G112	
21					
22	2	PLATE 3/8" x 10 1/2"	2'-6"	H112	
23					
24	ONE	PLATE 1/2" x 9"	3'-9"	K112	
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					

APPROVED
For Bridge Design and
Fabrication
JAN 30 2004
Ralph E. Anderson
Engineer of Bridge & Traffic Structures

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 7/8" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK M.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

FIELD VERIFY ALL

SCALE: 1"=1' U.N.O.

LEGEND
+ FIELD DRILL HOLES 15/16"
⊕ SHOP DRILL HOLES 15/16"

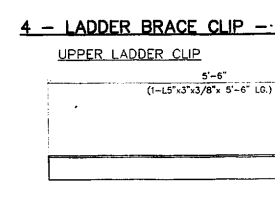
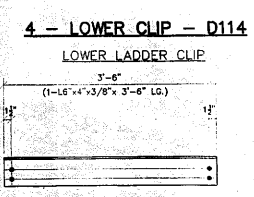
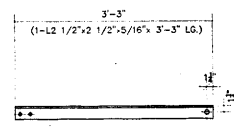
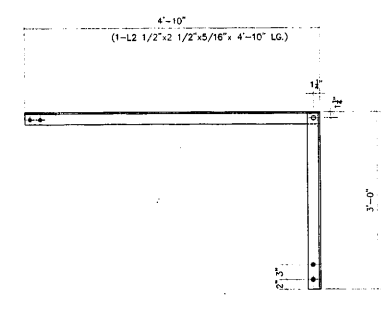
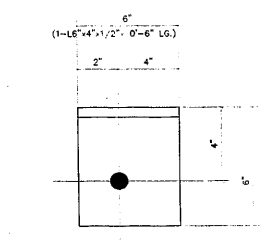
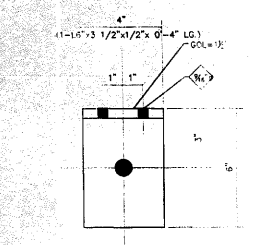
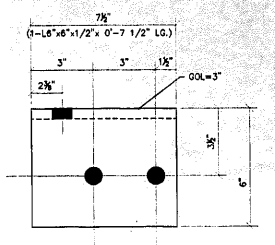
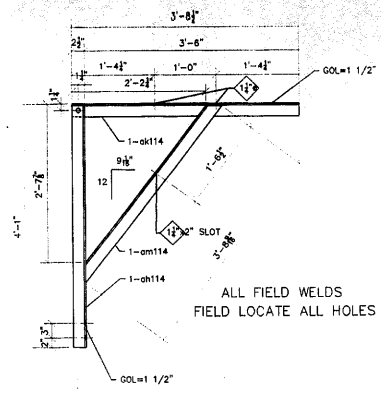
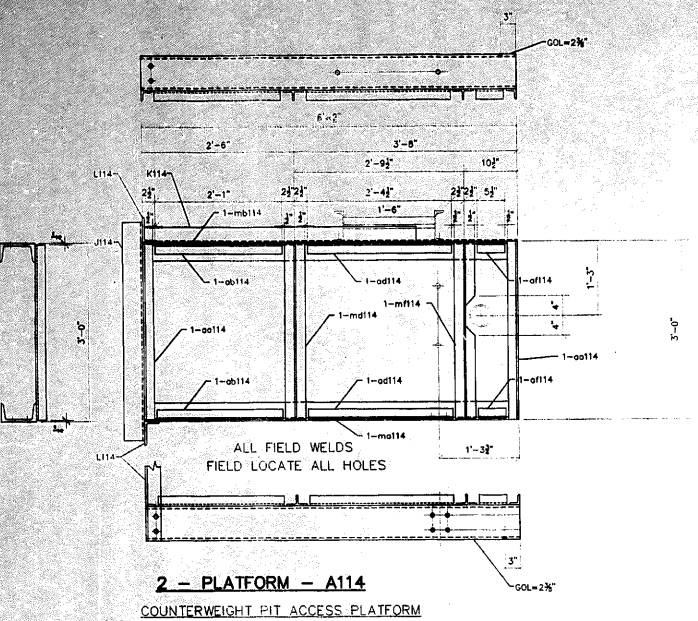
APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. I HEREBY CERTIFY AND REPRESENT TO THE PUBLIC AND THE CONTRACTOR THAT I AM A REGISTERED PROFESSIONAL ENGINEER AND AM THE DESIGNER OF THIS PROJECT. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE DESIGN OR THE FABRICATION OF THE STRUCTURE. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE FABRICATION OF THE STRUCTURE.	PAINT: INORGANIC ZINC RICH PRIMER HOLES: 15/16" WELDS = E70XX MAT'L=ASTM A 36 } U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	WELDS: 1/4"
NOI BY REVISIONS DATE DRAWN BY: GAH	DATE: 7/14/03	
GAH ISSUED FOR APPROVAL	DATE: 7/14/03	
GAH FINAL ISSUE	DATE: 1/19/04	
	CHECKED BY:	
	DATE:	
	APPROVED:	

LD 'D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

REPAIR DETAILS		JOB NO.
STRUCTURE	BRIDGE REHABILITATION	
CONTRACT #	PROJECT #	
LOCATION	SECTION	
ENGINEER	PARSONS BRINCKERHOFF	
ARCHITECT	STRUCTURE #	

112

NO.	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.	2	PLATFORM	--	A114	
3.	4	L 2x2x3/8	2'-11 1/2"	ad114	
4.	4	L 2x2x3/8	2'-1"	ab114	
5.	4	L 2x2x3/8	2'-4 1/2"	ad114	
6.	4	L 2x2x3/8	0'-5 1/2"	ad114	
7.	2	M07x21.7	8'-2"	mb114	
8.	2	M07x21.7	8'-2"	mb114	
9.	2	M12x7.5	2'-11 1/2"	md114	
10.	2	M12x7.5	2'-11 1/2"	md114	
11.					
12.					
13.					
14.	2	SUPPORT RAIL GUIDE	--	B114	
15.	2	L 2 1/2x2 1/2x5/16	4'-0 1/2"	ah114	
16.	2	L 2 1/2x2 1/2x5/16	3'-8 1/2"	ak114	
17.	2	L 2 1/2x2 1/2x5/16	3'-8 9/16"	am114	
18.					
19.					
20.					
21.	4	L 6"x3 1/2"x1/2"	0'-4"	D114	
22.					
23.	4	L 6"x4"x1/2"	0'-6"	E114	
24.					
25.	2	L 2 1/2x2 1/2x5/16	2'-11 1/2"	F114	
26.	2	L 2 1/2x2 1/2x5/16	4'-10"	--	
27.					
28.	2	L 2 1/2x2 1/2x5/16	3'-3"	G114	
29.					
30.					
31.					
32.	2	L 6"x6"x1/2"	0'-7 1/2"	H114	
33.					
34.	8	L 6"x4"x3/8	3'-6"	J114	
35.					
36.	2	L 3"x3"x1/4"	4'-6"	K114	
37.					
38.	4	L 5"x3"x3/8	5'-6"	L114	



4 - PLATFORM CONNECTION CLIP - H114
2 AS SHOWN 2 OPPOSITE

2 - SUPPORT RAIL GUIDE - B114
GUIDE FOR 1" Ø GUIDE RODS.

2 - PLATFORM - A114
COUNTERWEIGHT PIT ACCESS PLATFORM

2 - HANDRAIL - G114
HANDRAIL LADDER SIDE

4 - LOWER CLIP - D114
LOWER LADDER CLIP

4 - LADDER BRACE CLIP - E114
UPPER LADDER CLIP

2 - HANDRAIL - K114
ONE EAST AND ONE WEST

2 - HANDRAIL - F114
HANDRAIL OPPOSITE LADDER

8 - LADDER RUNGS - J114
4 EAST AND 4 WEST @
CATWALK/PIT PLATFORM

2 - PLATFORM HANGERS AS SHOWN - L114
2 - PLATFORM HANGERS OPPOSITE - L114
2 EAST AND 2 WEST @
CATWALK/PIT PLATFORM

FIELD WELD TO EXISTING COMPONENTS

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 ONLY. 3/4" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
- STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

SCALE: 1"=1' U.N.O.

FIELD VERIFY ALL

- LEGEND**
- SHOP DRILL HOLES
 - FIELD DRILL HOLES

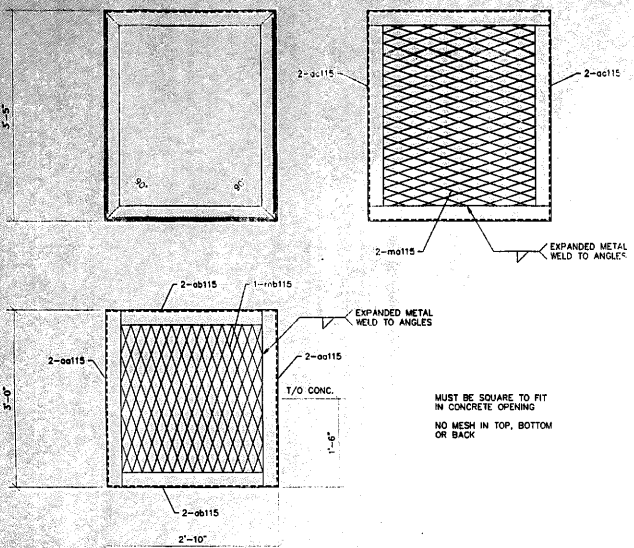
APPROVAL/REVIEW AUTHORITY:		PAINT: INORGANIC ZINC RICH PRIMER		WELDS: 1/4"	
PLEASE REVIEW THIS DRAWING CAREFULLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT LOCATION, NUMBER AND SIZE OF HOLES AND FOR THE CORRECT SIZE AND LOCATION OF ALL HOLES.		HOLES: 13/16" WELDS = E70XX		MATERIAL = ASTM A 36 U.N.	
NO. BY REVISIONS DATE DRAWN BY: GAH		WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES			
GAH ISSUED FOR APPROVAL 7/27/03 DATE: 7/22/03					
GAH FINAL ISSUE 1/18/04 CHECKED BY:					
DATE: APPROVED:					

D' CONSTRUCTION, INC.
GENERAL CONTRACTOR
1488 SO. BROADWAY
COAL CITY, ILLINOIS 60416

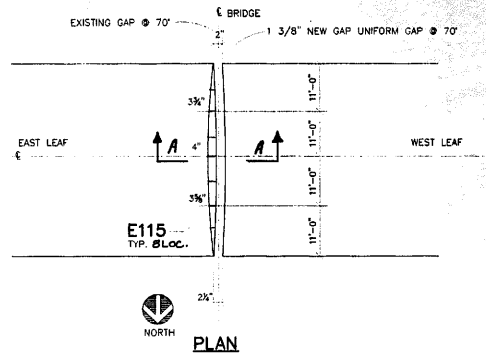
SHEET TITLE		REPAIR DETAILS		JOB NO:
STRUCTURE	BRIDGE REHABILITATION	CONTRACT # 80193	PROJECT # C-91-366-96	
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-1R-1-1-1	WILL COUNTY, ILLINOIS		
ENGINEER	PARSONS BRINCKERHOFF			
ARCHITECT	STRUCTURE # 099-9901			

SHEET NO: **114**

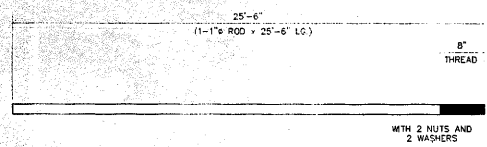
APPROVED
For Bridge Design and Materials Only
JAN 30 2004
Ralph E. Anderson
Engineer of Bridge & Traffic Structures



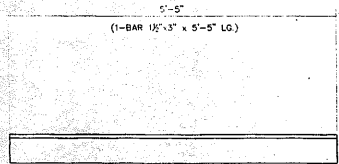
2 - PIPE SPOOL - B115



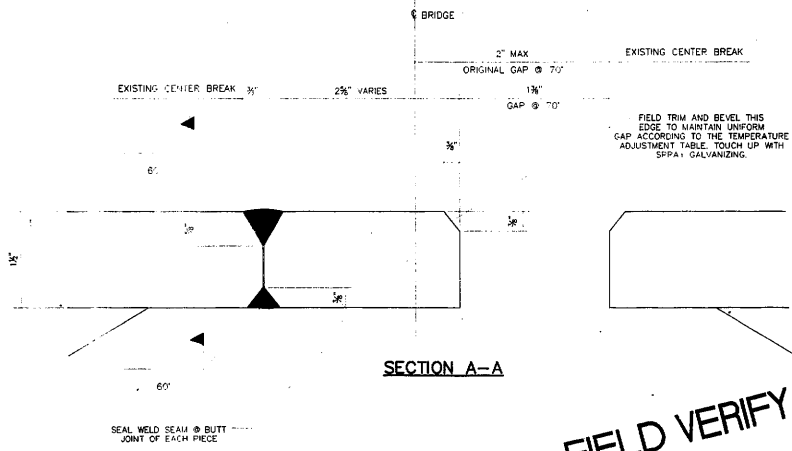
2 - TRASH SCREENS - A115



4 - PUMP GUIDE RODS - D115
2 EAST AND 2 WEST



8 - CENTER BREAK FILL PLATES - E115



SECTION A-A

FIELD VERIFY ALL

NO.	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1.					
2.					
3.	2	TRASH SCREEN		A115	304 S.S.
4.	6	L 2 x 2 x 1/4	3'-0"	aa115	304 S.S.
5.	6	L 2 x 2 x 1/4	2'-10"	aa115	304 S.S.
6.	6	L 2 x 2 x 1/4	2'-10"	aa115	304 S.S.
7.	2	MESH X33	2'-11"	ma115	304 S.S.
8.	4	MESH X35	3'-4"	mb115	304 S.S.
9.					
10.					
11.					
12.	2	PIPE	3'-11"	B115	304 S.S.
13.	6	PLATE 1/2" x 60"		pa115	304 S.S.
14.					
15.					
16.					
17.	4	1" ROD W 8" THD	25'-6"	D115	304 S.S.
18.					
19.					
20.					
21.	8	BAR 1 1/2" x 3"	5'-5"	E115	GALVANIZED
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
31.					
32.					
33.					
34.					
35.					
36.					
37.					
38.					

TEMPERATURE ADJUSTMENT TABLE

TEMPERATURE AT TIME OF INSTALLATION	GAP
30°F	1 3/4"
40°F	1 3/4"
50°F	1 3/4"
60°F	1 1/2"
70°F	1 1/2"
80°F	1 1/2"
90°F	1 1/2"

APPROVED
 Ralph C. Anderson
 Engineer of Bridge & Traffic Structures

GENERAL NOTES

- ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 3/4" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
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- IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
- CLEAN & PAINT:
 A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER
- NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

SCALE: 1"=1' U.N.O.

LEGEND

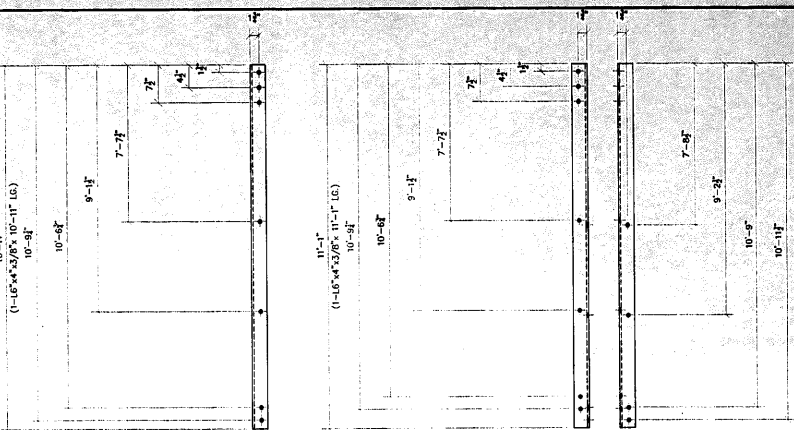
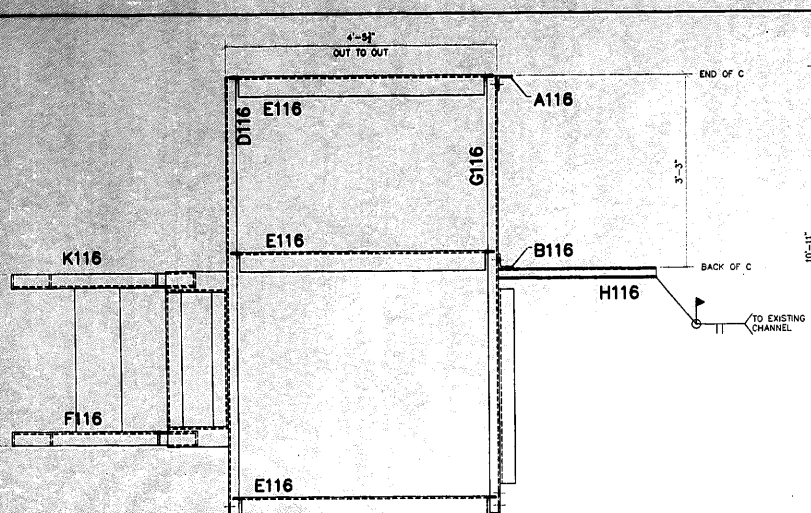
- SHOP DRILL HOLES
- FIELD DRILL HOLES

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY. CORRECTED OR NEW REVISIONS OF THE DESIGN OR THE CONTRACT DOCUMENTS SHALL BE MADE BY THE DESIGNER OR THE CONTRACTOR. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES AND STRUCTURES.	PAINT: NONE HOLES: 13/16" WELDS = E70XX MATL=ASTM A 36 U.N. WIRE FOR SHIPMENT ALL LOOSE CLIP ANGLES	WELDS: 1/4" DATE: 8/15/03 CHECKED BY: DATE: APPROVED:
NO. BY REVISIONS	DATE	DRAWN BY: GAH
GAH	ISSUED FOR APPROVAL 8/18/03	DATE: 8/15/03
GAH	FINAL ISSUE 1/19/04	CHECKED BY:

LPB D' CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1488 SO. BROADWAY
 COAL CITY, ILLINOIS 60416

SHEET TITLE		REPAIR DETAILS	JOB NO.
STRUCTURE	CONTRACT # 60193	BRIDGE REHABILITATION	
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET)	PROJECT # C-91-366-96	
ENGINEER	PARSONS BRINCKERHOFF	WILL COUNTY, ILLINOIS	
ARCHITECT	PARSONS BRINCKERHOFF	STRUCTURE # 099-9901	

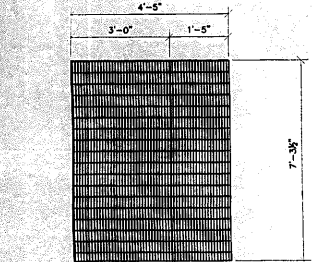
115



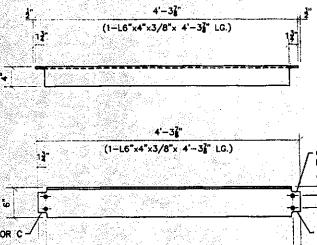
4 - HANGER - A116

4 - HANGER - B116

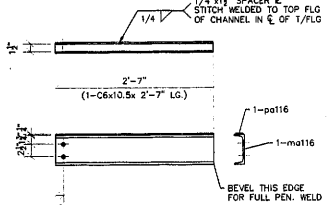
PLATFORM PLAN
 CATWALK OVER PITS BEHIND TRUNION PIN AND AT DRIVE GEAR
 SOUTHWEST WALKWAY AS SHOWN
 NORTHWEST WALKWAY AS SHOWN
 SOUTHEAST WALKWAY OPP. HAND
 NORTHEAST WALKWAY OPP. HAND



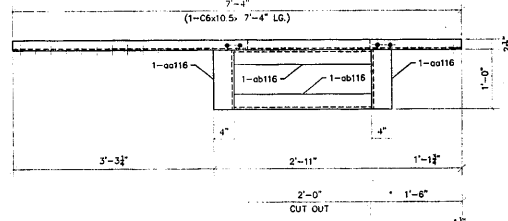
4 - GRATING PANEL - J116



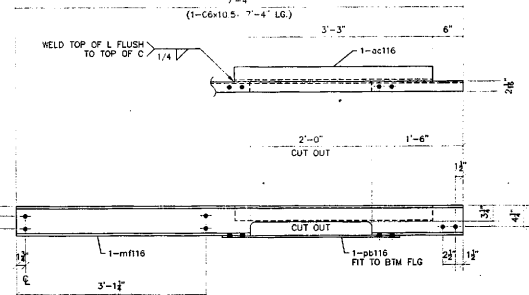
12 - BEAM - E116



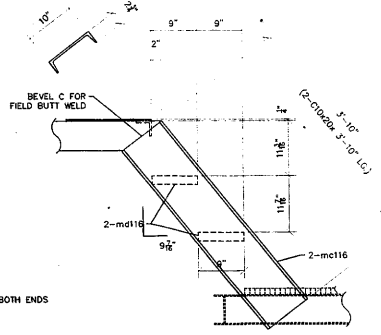
4 - BEAM - H116



2 - BEAM - AS SHOWN - D116
 2 - BEAM OPPOSITE - D116a



2 - BEAM - AS SHOWN - G116
 2 - BEAM OPPOSITE - G116a



4 - STRINGER AS SHOWN - F116
 4 - STRINGER OPPOSITE - F116a

LEGEND
 + SHOP DRILL HOLES
 + FIELD DRILL HOLES

APPROVAL/REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY TO DETERMINE THE ACCURACY OF THE INFORMATION CONTAINED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE INFORMATION CONTAINED HEREIN AND THE ACCURACY OF THE INFORMATION CONTAINED HEREIN IS THE RESPONSIBILITY OF THE CONTRACTOR.		PAINT: INORGANIC ZINC RICH PRIMER WELDS: 1/4\"/>	
NO. BY	REVISIONS	DATE	DRAWN BY: GAH
GAH	ISSUED FOR APPROVAL	8/18/03	DATE: 8/18/03
GAH	FINAL ISSUE	1/16/04	CHECKED BY:
		DATE:	APPROVED:

DPD 'D' CONSTRUCTION, INC.
 GENERAL CONTRACTOR
 1488 SO. BROADWAY
 COAL CITY, ILLINOIS 60416

NO.	TOTAL	SHAPE	LENGTH	MARK	REMARKS
1					
2	4	L 3"x3"x3/8"	10'-11"	A116	
3					
4					
5					
6	4	L 3"x3"x3/8"	11'-1"	B116	
7					
8					
9					
10	2	BEAM			SHOWN
11	4	C6x10.5	7'-4"	mf116	
12	4	PLATE 3/8"x2"	2'-11"	pb116	
13	8	L 6"x4"x3/8"	1'-0"	oc116	
14	8	L 3"x3"x3/8"	2'-3"	ob116	
15					
16					
17					
18	12	L 6"x4"x3/8"	4'-3 7/8"	E116	
19					
20					
21					
22	4	STRINGER			SHOWN
23	8	C10x20	3'-10"	mc116	
24	8	TREAD	2'-4 3/4"	md116	
25					
26					
27					
28	2	BEAM			SHOWN
29	4	C6x10.5	7'-4"	mf116	
30	4	L 3"x3"x3/8"	3'-3"	oc116	
31	4	L 3"x3"x3/8"	3'-3"	oc116	
32					
33	ONE	BEAM			H116
34	ONE	C6x10.5	2'-7"	mf116	
35	ONE	PLATE 1/4"x1 1/2"	2'-7"	pb116	
36					
37					
38	4	L 3/4"x3/16"x53"	7'-3 1/2"	J116	GRATING PANEL

FIELD VERIFY ALL

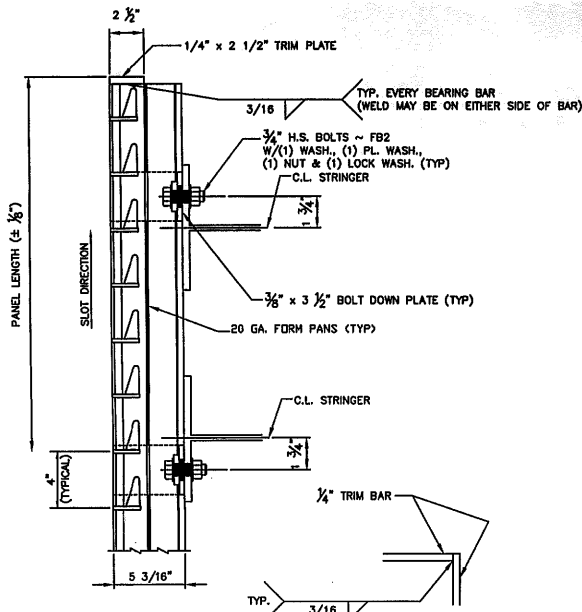
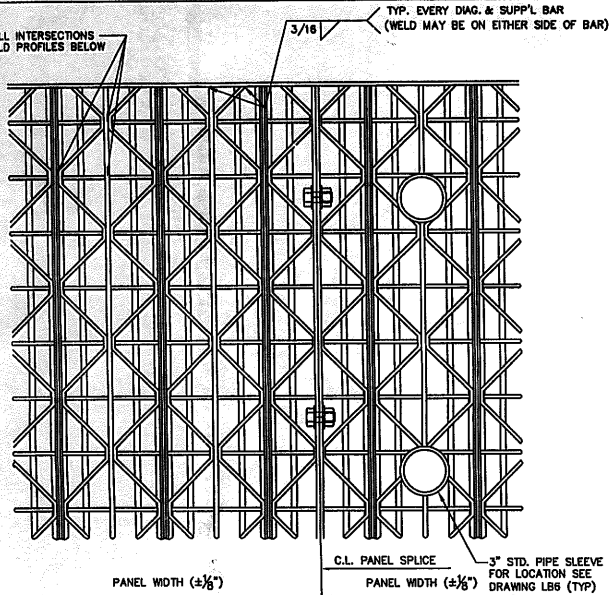
APPROVED
 For Steel Detailing Only
 JAN 3 0 2004
Ralph E. Adams
 Register of Design & Drafting

- GENERAL NOTES**
1. ALL FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECS.
 2. ALL STRUCTURAL STEEL SHALL CONFORM TO M 270 GR36 UNLESS NOTED OTHERWISE.
 3. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS M164 GALV. 3/4" UNLESS NOTED OTHERWISE. OPEN HOLES SHALL BE 15/16" UNLESS NOTED.
 4. STRUCTURAL STEEL MAYBE FLAME CUT IF THE FLAME CUTTING IS MECHANICALLY GUIDED.
 5. IF CURVES IN PLATES AND ANGLES ARE FLAME CUT, THEY SHALL BE GROUND SMOOTH.
 6. CLEAN & PAINT:
 A. ALL STEEL SURFACES TO BE BALASTED TO SPEC SSPC-SP10 TO PROFILE OF 1 TO 2.5 MILS.
 B. SHOP PAINT: INORGANIC ZINC RICH PRIMER (SHERWIN WILLIAMS ZINK H.S.)
 C. FIELD PAINT: MUST BE COMPATIBLE WITH SHOP PRIMER.
 7. NTR DENOTES MATERIAL TO MEET "SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2"

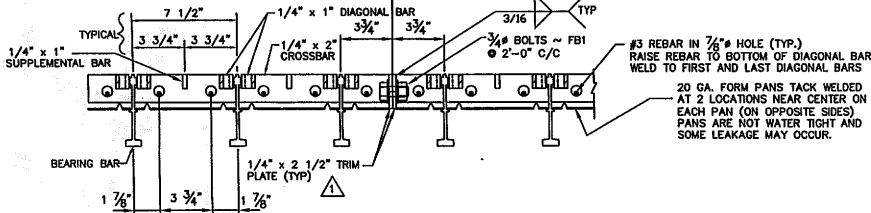
SHEET TITLE		REPAIR DETAILS		JOB NO.
STRUCTURE	BRIDGE REHABILITATION	CONTRACT # 60193	PROJECT # C-91-366-96	SHEET NO.
LOCATION	F.A.P. ROUTE 112 (ILLINOIS 53 RUBY STREET) SECTION M-B-DR-4-1-1	WILL COUNTY, ILLINOIS		116
ENGINEER	PARSONS BRINCKERHOFF	STRUCTURE # 099-9901		

SCALE: 1"=1' U.N.O.

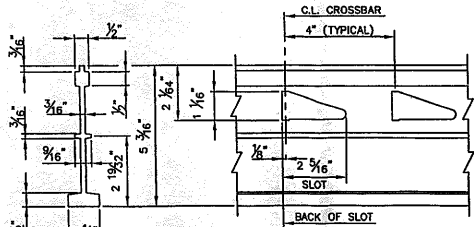
WELD ALL INTERSECTIONS
SEE WELD PROFILES BELOW



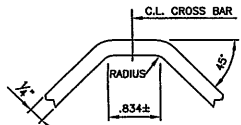
TYP. CORNER WELDING



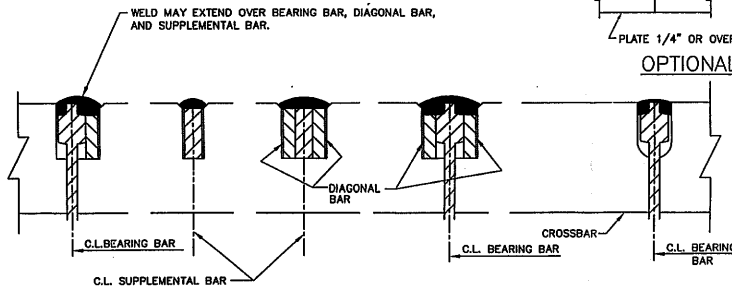
TYPICAL DETAILS 5 3/16" HALF FILLED DIAGONAL-TYPE FLOORING
(FORM PANS NOT SHOWN IN PLAN VIEW)



BEARING BAR DETAIL



DIAGONAL BAR DETAIL



APPROXIMATE WELD PROFILES

GENERAL NOTES
1. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2002

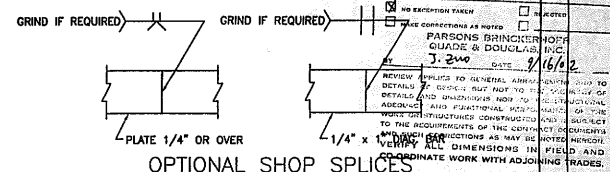
DESCRIPTION	ASTM	ALLOY/GR.	REMARKS
ALL MATERIAL UNLESS NOTED	A709	36	GALV. PER ASTM A123
BOLTS	A325		GALV. PER ASTM A153
NUTS	A563		GALV. PER ASTM A153
WASHERS U.N.	F438		GALV. PER ASTM A153
REBAR	A615		
FORM PANS (BLACK)	A366		
PIPE	A53		

2. ALL LOCK WASHERS SHALL BE MADE OF TEMPERED STEEL AND SHALL CONFORM TO THE SAE REGULAR DIMENSIONS. THE MATERIAL SHALL MEET THE SAE TESTS FOR TEMPER AND TOUGHNESS.
3. SHOP WELDING SHALL BE PERFORMED WITH THE GAS METAL ARC PROCESS USING ER70S-3 FILLER METAL AND CONFORMING TO AWS D1.5 WELDING CODE.
4. AFTER FABRICATION, ALL MATERIAL TO BE HOT-DIP GALVANIZED PER ASTM A123. DUE TO GALVANIZING PROCESS, PANELS MAY HAVE SOME DISTORTION & SIDE SWEEP WHICH WILL REQUIRE ADJUSTMENT BY THE PRECASTER BEFORE POURING CONCRETE.
5. ALL DIMENSIONS MUST BE FIELD VERIFIED PRIOR TO FABRICATION.
6. DETAILS ON THIS DRAWING ARE NOT TO SCALE.
7. SEE DWG. LB2 FOR PANEL TOLERANCES.

POSITIVE MOMENT SECTION PROPERTIES PER FOOT OF WIDTH
SECTION MODULUS - STEEL = 4,780 IN³
SECTION MODULUS - CONCRETE = 77,414 IN³

NEGATIVE MOMENT SECTION PROPERTIES PER FOOT OF WIDTH
SECTION MODULUS - STEEL = 5,735 IN³
SECTION MODULUS - CONCRETE = 4,564 IN³

APPROXIMATE AVERAGE WEIGHT OF DECKING (STEEL ONLY) = 18.4 LB/SF
(EXCLUDING TRIM BARS, BOLTS, AND OTHER ATTACHMENTS)
THE WEIGHT MAY VARY SIGNIFICANTLY DUE TO MILL TOLERANCES GALVANIZING, ETC. THE DECKING PANELS WILL BE WEIGHED PRIOR TO SHIPMENT SO THAT FINAL COUNTER BALANCE CALCULATIONS MAY BE COMPLETED. WEIGHT WITH LIGHTWEIGHT CONCRETE IS APPROXIMATELY 39.4 LB/SF



OPTIONAL SHOP SPLICES

APPROVED
For Main Dimensions and
Materials Only
SEP 20 2002

CONTRACT #60193
SECTION #A-B-DR-4-1-1
STRUCTURE #099-9901

Robert C. Anderson
Engineer of Bridges and Traffic Structures

APPROVED: _____ REV. APP. _____
DATE: _____

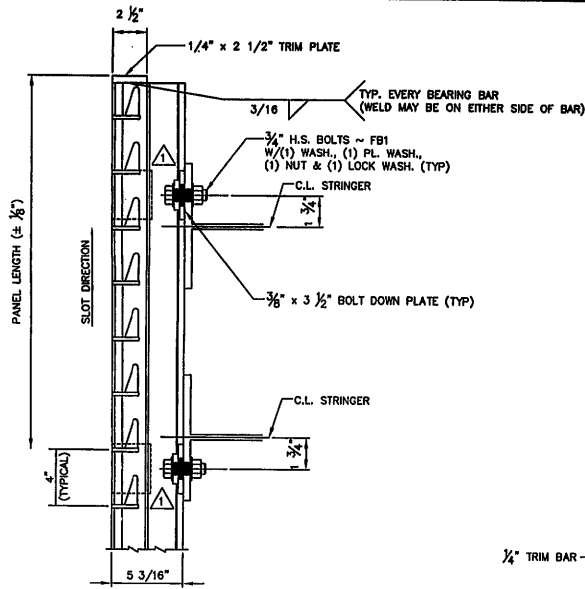
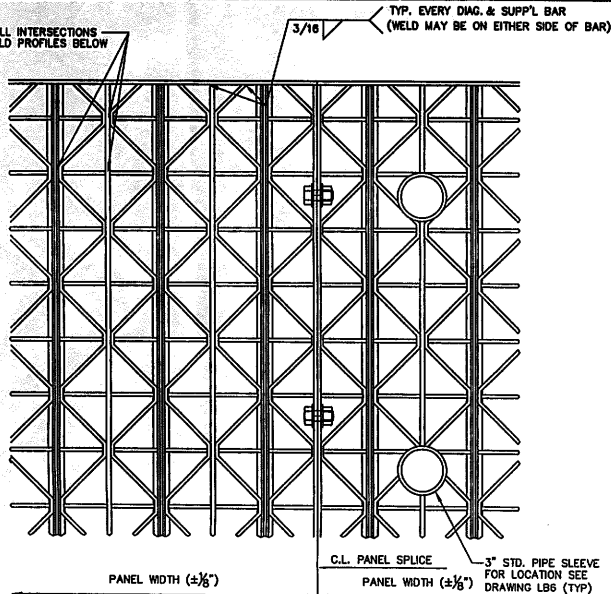
L. B. FOSTER CO.
PITTSBURGH, PENNSYLVANIA 15220

FOR: D CONSTRUCTION
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - WILL COUNTY
RUBY STREET BRIDGE OVER THE DESPLAINES RIVER
5 3/16" HALF FILLED GRID TYPICAL DETAILS

REV.	DESCRIPTION	BY	DATE	CHECK	DATE	REV. NO.
1	APPROVAL REVISIONS	RLP	9-9-02			
		MRF	9/22/02			
			9/31/02			

DATE: 9/22/02
DRAWN BY: MRF
CHECKED BY: LBL
SCALE: AS SHOWN
SHEET NO.: 1

WELD ALL INTERSECTIONS
SEE WELD PROFILES BELOW



NOTES:
FOR GENERAL NOTES SEE DRAWING LB1

WORK THIS DRAWING WITH DRAWINGS LB1, LB3 TO LB6

△ DETAILS ON THIS DRAWING ARE NOT TO SCALE

△ SECTION PROPERTIES PER FOOT OF WIDTH
SECTION MODULUS TOP = 3.905 IN³
SECTION MODULUS BOTTOM = 4.225 IN³

△ APPROXIMATE AVERAGE WEIGHT OF DECKING = 18.0 LB/SF
(EXCLUDING TRIM BARS, BOLTS, AND OTHER ATTACHMENTS)
THE WEIGHT MAY VARY SIGNIFICANTLY DUE TO MILL TOLERANCES,
GALVANIZING, ETC. THE DECKING PANELS WILL BE WEIGHED PRIOR
TO SHIPMENT SO THAT FINAL COUNTER BALANCE CALCULATIONS
MAY BE COMPLETED.

△ GRID PANEL TOLERANCES

1. PANEL WIDTH = ±1/4"
2. PANEL LENGTH = ±1/8"
3. OFFSET BETWEEN TOP OF BEARING BARS AND TOP CROSSBARS, SUPPLEMENTAL BARS, & DIAGONAL BARS = 1/16" MAX.
4. DIFFERENCE IN DIAGONAL MEASUREMENT ACROSS PANEL = ±1/2"

REVIEWED

NO EXCEPTION TAKEN SELECTED
 MAKE CORRECTIONS AS NOTED REJECTED
PARSONS BRINCKERHOFF
QUADE & DOUGLAS, INC.
BY: J. ZAW DATE: 9/19/02

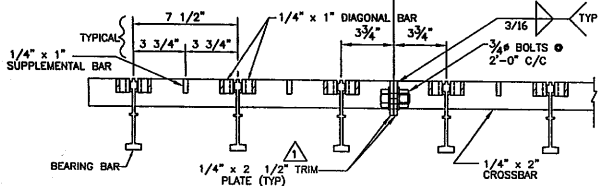
REVIEW APPLIES TO GENERAL ARRANGEMENT AND TO
DETAILS OF DESIGN BUT NOT TO THE ACCURACY OF
DIMENSIONS OR DIMENSIONAL INFORMATION TO THE STRUCTURAL
AND FUNCTIONAL PERFORMANCE OF THE
WORK OR STRUCTURES CONSTRUCTED AND IS SUBJECT
TO THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS
AND SUCH CORRECTIONS AS MAY BE NOTED THEREON.
VERIFY ALL DIMENSIONS IN FIELD AND
CO-ORDINATE WORK WITH ADJOINING TRADES.

APPROVED

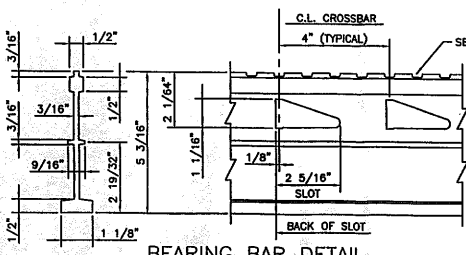
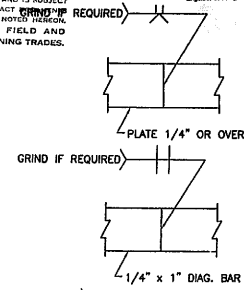
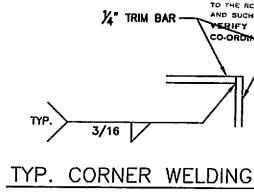
For Main Dimensions and
Materials Only

SEP 20 2002

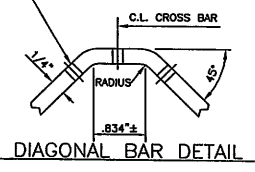
Ralph E. Anderson
Engineer of Design and Traffic Structures



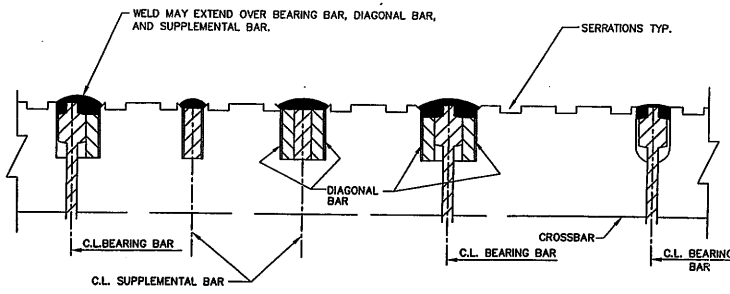
△ TYPICAL DETAILS 5 3/16" OPEN DIAGONAL-TYPE FLOORING
(SERRATIONS NOT SHOWN)



BEARING BAR DETAIL



DIAGONAL BAR DETAIL



APPROXIMATE WELD PROFILES

NO.	DESCRIPTION	BY	CHKD	DATE
1	APPROVAL REVISIONS	RJP	9-9	02

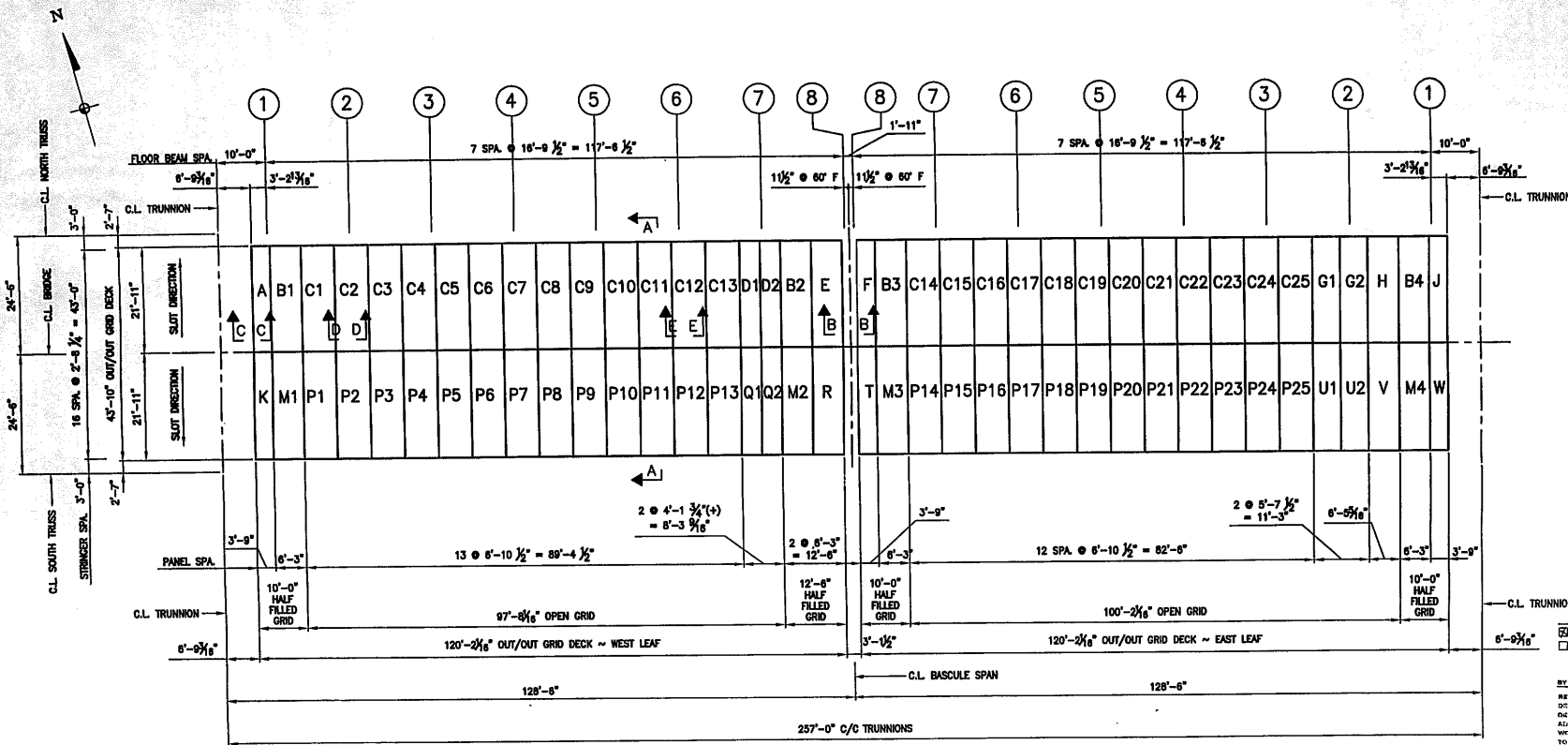
CONTRACT #60193
SECTION #A-3-DR-4-1-1
STRUCTURE #099-9901

APPROVED: _____ DATE: _____

L. B. FOSTER CO.
PITTSBURGH, PENNSYLVANIA 15220

FOR: D CONSTRUCTION
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - MILL COUNTY
RUBY STREET BRIDGE OVER THE DESPLAINES RIVER
5 3/16" OPEN GRID TYPICAL DETAILS

DATE: 05/23/02
BY: JH
CHECKED: MPR
DATE: 5/31/02
SCALE: AS SHOWN
REV. NO. 1



PLAN VIEW
SCALE: 3/32" = 1'-0"

- NOTES:
- FOR GENERAL NOTES AND MATERIAL SPEC'S SEE DRAWINGS LB1.
 - WORK THIS DRAWING WITH DRAWINGS LB1, LB2, LB4, LB5, LB6.
 - DURING ERECTION OF GRID FLOOR UNITS, CARE MUST BE EXERCISED TO PLACE EACH UNIT IN ITS PROPER LOCATION, MEASURING IN ALL CASES FROM SOME FIXED POINT AS OTHERWISE A CUMULATIVE ERROR IN SPACING WILL APPEAR CAUSING THE SPACE FOR THE FINAL UNITS TO BE MORE OR LESS THAN THE ACTUAL WIDTH OF UNITS.
 - ALL DIMENSIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR IF NO COMMENTS ARE GIVEN WE WILL ASSUME THAT WHAT IS SHOWN IS CORRECT.
 - PANELS WITH LIKE MARK LETTERS SUCH AS C1, C2, C3... ARE ALIKE AND INTERCHANGEABLE.
 - FOR BOLT DOWN LOCATIONS SEE DRAWING LB6.
 - AREA OF 5" FLOORING ON THIS DRAWING 10535 SQ. FT.

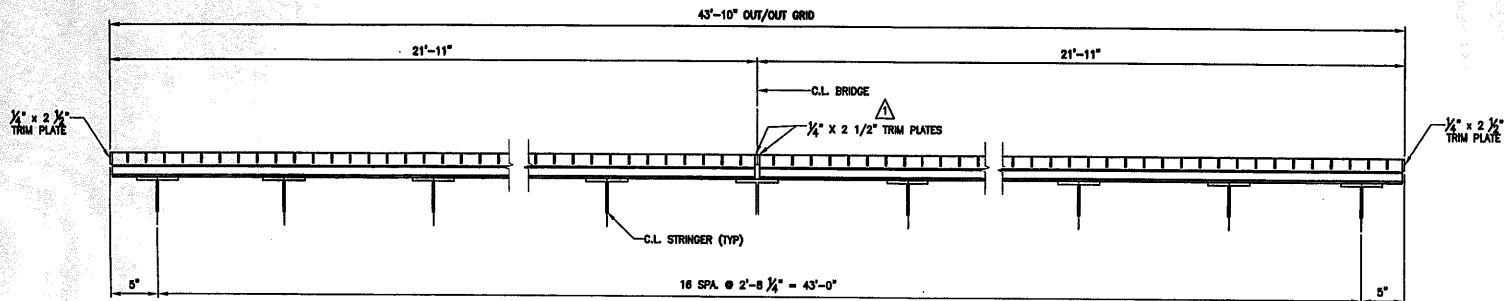
APPROVED
For Main Dimensions and Materials Only
SEP 20 2002
Ralph E. Anderson
Engineer of Bridges and Traffic Structures

REVIEWED
 NO EXCEPTION TAKEN REJECTED
 MAKE CORRECTIONS AS NOTED AS NOTED
PARSONS BRINCKERHOFF
CORP. & DOUGLAS, INC.
BY: J. Z... DATE: 9/11/02
REVIEW APPLIES TO GENERAL ARRANGEMENTS ONLY. ALL DETAILS AND DIMENSIONS ARE TO THE CONTRACTOR'S RESPONSIBILITY AND PERFORMANCE. THE WORK OR STRUCTURES CONSTRUCTED AND MATERIALS TO BE USED MUST COMPLY WITH THE REQUIREMENTS OF THE CONTRACT AND SUCH CONNECTIONS AS MAY BE NECESSARY TO COORDINATE WORK WITH ADJOINING TRACKS.

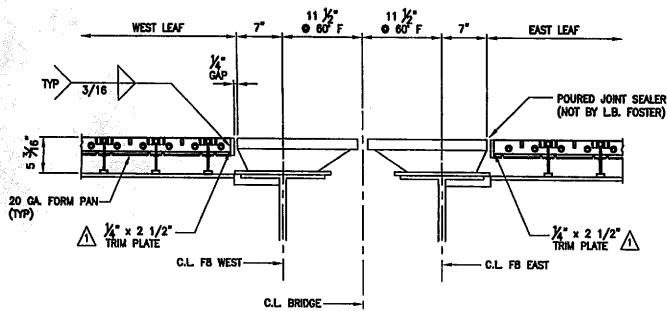
CONTRACT-#60193
SECTION-#M-B-DR4-1-1
STRUCTURE-#099-9901

APPROVED: _____
L. B. FOSTER CO.
PITTSBURGH, PENNSYLVANIA 15220
FOR: D CONSTRUCTION
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS WILL COUNTY
RUBY STREET BRIDGE OVER THE DESPLAINES RIVER
5 3/16" GRID PLAN VIEW

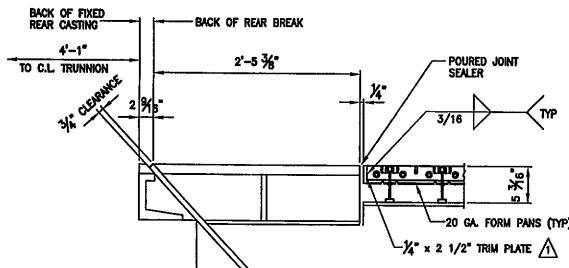
GENERAL REVS PER APP'L COMMENTS & DESIGN REV. #1	R L P	9/9 02	DATE	5/21/02	JOB NO.	S08802	DATE	6/3/02	DESIGNER	LB3	REV. NO.	1
--	-------	--------	------	---------	---------	--------	------	--------	----------	-----	----------	---



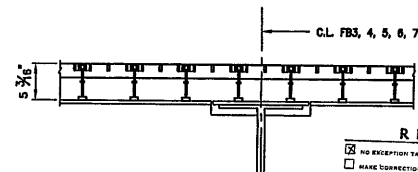
SECTION A-A



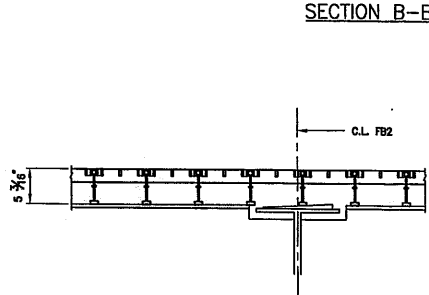
SECTION B-B



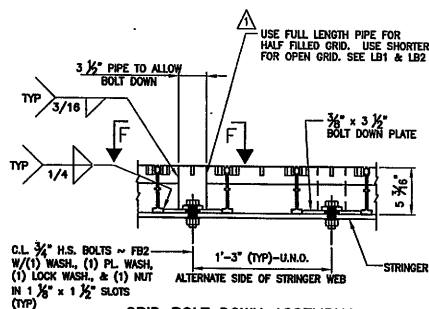
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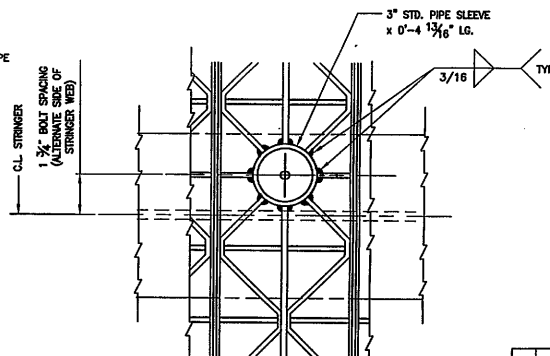
SECTION E-E



SECTION D-D



GRID BOLT DOWN ASSEMBLY
(CONCRETE NOT SHOWN FOR CLARITY)



VIEW F-F

REVIEWED

NO EXCEPTIONS
 MAKE CORRECTIONS AS NOTED
 REJECTED

PARSONS BRINCKERHOFF
 QUADRE & DOUGLAS, INC.

BY: J. E. M. DATE: 9/11/02

REVIEW APPLIED TO GENERAL ARRANGEMENT AND TO DETAILS OF DESIGN BUT NOT TO THE ACCURACY OF DIMENSIONS NOR TO THE STRUCTURAL WORK OR STRUCTURAL PERFORMANCE OF THE AND SUCH CORRECTIONS AS MAY BE NOTED HEREON, AND CO-ORDINATE WORK WITH ADJOINING TRADES.

NOTE:
 WORK THIS DRAWING WITH DRAWINGS LB1 THRU LB3, LB5 AND LB6.
 DETAILS ON THIS DRAWING ARE NOT TO SCALE.

APPROVED
 For Main Dimensions and Materials Only

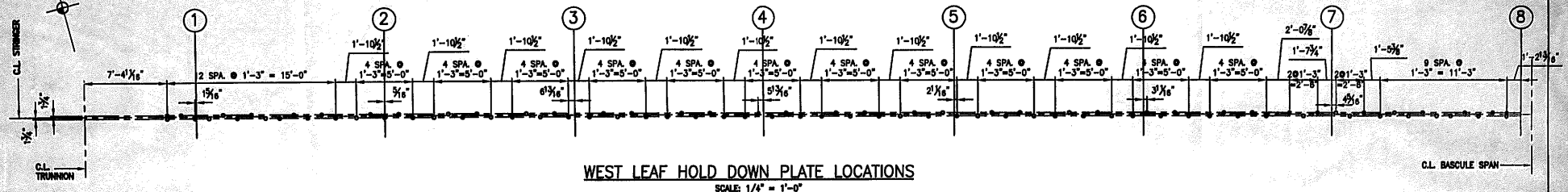
SEP 20 2002

Ralph C. Anderson
 Director of Bridge and Traffic Structures

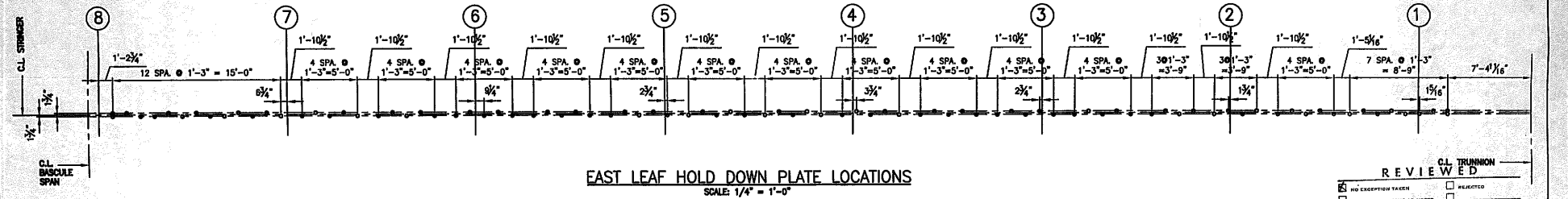
CONTRACT-#60193
 SECTION-#M-B-DR4-I-1
 STRUCTURE-#099-9901

APPROVED:	DATE:
L. B. FOSTER CO.	
PITTSBURGH, PENNSYLVANIA 15220	
FOR: D CONSTRUCTION	
ILLINOIS DEPARTMENT OF TRANSPORTATION	
DIVISION OF HIGHWAYS WILL COUNTY	
RUBY STREET BRIDGE OVER THE DESPLAINES RIVER	
5 3/16" GRID SECTIONS AND DETAILS	
DATE:	DATE:
BY:	BY:
DATE:	DATE:
DATE:	DATE:

APPROVAL REVISIONS	BY:	DATE:	BY:	DATE:
	R	9/9		
	L	02		
	P			



WEST LEAF HOLD DOWN PLATE LOCATIONS
SCALE: 1/4" = 1'-0"



EAST LEAF HOLD DOWN PLATE LOCATIONS
SCALE: 1/4" = 1'-0"

NOTE:
CONTRACTOR TO FIELD VERIFY COMPATIBILITY BETWEEN
EXISTING CONDITIONS AND PROPOSED TIE DOWN LOCATIONS
ASSOCIATED WITH GRID CONFIGURATIONS.

CL. TRUNNION
REVIEWED
 NO EXCEPTION TAKEN REJECTED
 MAKE CORRECTIONS AS NOTED PARSONS BRINCKERHOFF
QUADE & DOUGLAS, INC.
BY: J. Evans DATE: 4/11/02

APPROVED
For Main Dimensions and
Materials Only
SEP 20 2002
Ralph C. Anderson
Engineer of Bridges and Traffic Structures

REVIEW APPLIES TO GENERAL ARRANGEMENT AND TO
DETAILS OF DESIGN BUT NOT TO THE ACCURACY OF
DETAILS AND DIMENSIONS NOR TO THE STRUCTURAL
ADEQUACY AND FUNCTIONAL PERFORMANCE OF THE
WORK OR STRUCTURES CONSTRUCTED AND IS SUBJECT
TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS
AND SUCH CORRECTIONS AS MAY BE NOTED HEREON.
VERIFY ALL DIMENSIONS IN FIELD AND
COORDINATE WORK WITH ADJOINING TRADES.

CONTRACT-#60193
SECTION-#M-B-DR4-1-1
STRUCTURE-#099-9901

APPROVED: _____
DATE: _____
L. B. FOSTER CO.
PITTSBURGH, PENNSYLVANIA 15220
FOR: D. CONSTRUCTION
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS WILL COUNTY
RUBY STREET BRIDGE OVER THE DESPLAINES RIVER
HOLD DOWN PLATE LOCATIONS

REV	DESCRIPTION	BY	DATE	CHECKED	DATE	DESIGN	DATE	JOB NO.	REV. NO.
1	GENERAL REVISIONS PER APPL COMMENTS & DESIGN REV. #1	R L P	9/9/02			BJ	06/14/02	08802	1
						BJ	06/14/02	08802	1