

LOW ROOF JOIST FRAMING PLAN
UNIT "B"



NOTE: GREY PRIMER
TO BE USED

GENERAL NOTES

- All products provided by Canam Steel Corporation in connection with this drawing are subject to Canam Steel Corporation's Standard Terms and Conditions for Joist Sales. By accepting the product, the purchaser acknowledges that they have reviewed and approved these terms and conditions.
- Minimum design requirements to be per S.I. (and S.D.I. when deck is supplied by Canam) latest edition, unless otherwise noted herein.
- Paint: One shop coat Grey Primer (Specifications provided upon request).
- The issuance of this drawing does not constitute the acceptance of a customer's order.
- ©2008, Canam Steel Corporation. Unauthorized use of the drawing and information provided herein is strictly forbidden.
- Camber will be furnished on all joists and joist girders (see S.I. latest edition for appropriate camber) unless specifically modified by the contract documents. Camber and deflection must be considered when detailing framing adjacent to framing to joists or girders.
- The design is based upon load information specifically submitted to Canam Steel Corporation. No special loads or other forces have been provided for unless purchaser has requested them in writing. Such special loads or other forces shall include, without limitation: split concentrated loads from roof top units, stall loads from hicker angles, etc.
- Canam's erection drawings herein were prepared using the Structural portion of the contract drawings as its primary guide using the Architectural drawings (when provided) only for missing information or for clarification. Canam does not accept any responsibility for discrepancies between the Structural and Architectural drawings.

ERECTION NOTES

- This drawing is to be used only for the erection of products supplied by Canam Steel Corporation as indicated by an erection mark on the plans and/or sections.
- Canam Steel Corporation is not responsible for the handling and erection of materials it supplies. The design and manufacture of the materials assumes that they are handled in accordance with all applicable laws and regulations. Canam Steel Corporation is not responsible for any mishandling or failure to properly erect the materials.
- Canam Steel Corporation has not examined any field conditions and assumes no responsibility for any site conditions. Purchaser must notify Canam Steel Corporation of any discrepancies between the field conditions and Canam Steel Corporation's File and Field Use drawings.
- Any modification of material supplied by Canam Steel Corporation without prior written consent will automatically release Canam from all liability with respect to such material.

ERECTOR'S NOTE:

- IN BAYS 8'-0" OR LESS, THE FOLLOWING APPLIES TO ANY COLUMN JOISTS OR JOISTS NEAR A COLUMN:
- THESE JOISTS HAVE NOT BEEN DESIGNED TO SUPPORT AN EMPLOYEE WITHOUT BRACING INSTALLED.
 - THESE JOISTS ARE NOT DESIGNED FOR STABILITY PER SUPPORT 1847-701-101.
 - SPECIAL ERECTION METHODS MUST BE INCORPORATED.
 - EMPLOYERS WILL BE CONSIDERED TO BE IN COMPLIANCE WITH 1847-701-101 IF THEY ERECT THESE JOISTS EITHER BY: (1) INSTALLING BRACING OR OTHERWISE STABILIZING THE JOIST PRIOR TO RELAXING THE HOISTING CABLE, OR (2) RELAXING THE CABLE WITHOUT HAVING A WORKER ON THE JOIST.
 - DO NOT ALLOW EMPLOYEES ON THESE JOISTS UNTIL ADEQUATELY STABILIZED.
- CONSULT THE OSHA SAFETY STANDARDS FOR SPECIFICS.
- IN BAYS GREATER THAN 8'-0", JOISTS AT OR NEAR A COLUMN SHALL BE ERECTED IN TANDEM PAIR WITH AN ADJACENT JOIST. ALL BRACING MUST BE INSTALLED BEFORE LIFTING AND THE PAIR OF JOISTS MUST BE SECURED TO THEIR SUPPORT BEFORE RELAXING THE HOISTING LINE. THIS REQUIREMENT MAY BE WAIVED UNDER CERTAIN CONDITIONS. CONSULT THE OSHA SAFETY STANDARDS FOR SPECIFICS.

DESIGN METHOD:

ASD ☒ LRFD ☐ FACTORED ☐

REVISION NO.	DATE	DESCRIPTION
DATE SENT FOR FIELD USE:	3/19/2008	
DATE SENT FOR APPROVAL:	6/18/2007	



FOR FIELD USE

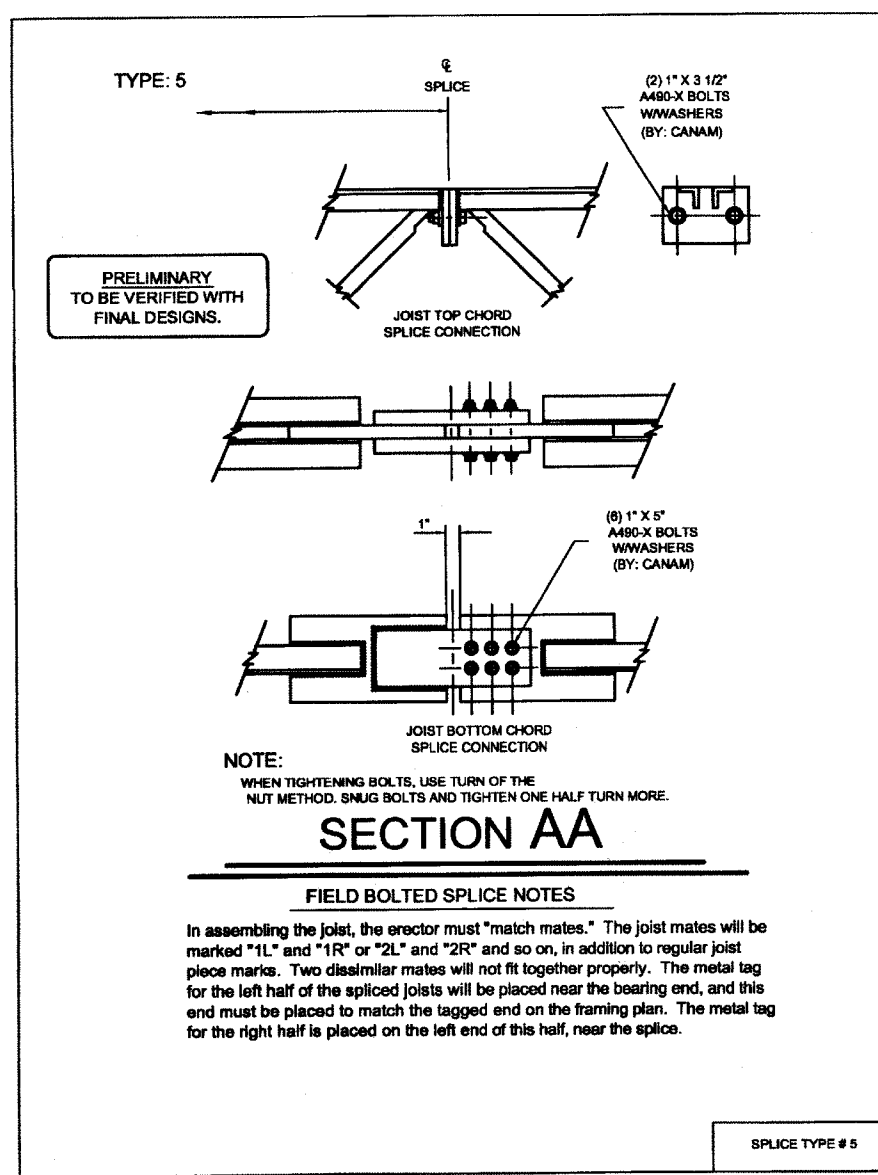


PROJECT NAME:	LAWRENCE CENTRAL HS
LOCATION:	BEDFORD, IN.
TITLE:	LOW ROOF
CUSTOMER:	STONE CITY IRONWORKS, INC.
ARCHITECT:	GIBRALTAR DESIGN
ENGINEER:	GIBRALTAR DESIGN
DRAWN BY:	FAM
CHECKED BY:	BAW
DATE:	5/26/2007
PROJECT:	H01735
DRAWING NO.:	JE1 of 4

FOR FIELD USE 4-02-08

Lawrence Central

- PIECEMARKED END IS TAG END ON PLAN
- NET UPLIFT = 10psf, 60pif
- SEQUENCE #2 - TAG COLOR: BLUE
- H2 = L 1 1/4" x 1 1/4", TYP UNO CONTINUOUS HORIZONTAL BRIDGING TYP @ TOP AND BOTTOM CHORDS. LOCATE AS SHOWN ON PLAN. SEE SHEET JE4 FOR SECTIONS.
- 001 - 399
BOLTED-X BRIDGING L 1 1/4" x 1 1/4", TYPICAL. SEE PLAN FOR MARK NO AND LOCATION. SEE SHEET JE4 FOR SECTIONS.
- 400 - 799
WELDED-X BRIDGING L 1" x 1", TYPICAL. SEE PLAN FOR MARK NO AND LOCATION. SEE SHEET JE4 FOR SECTIONS.
- UPLIFT BRIDGING
1 ROW OF HORIZONTAL BRIDGING @ 1ST BOTTOM CHORD PANEL POINT ON EACH END OF JOISTS AS SHOWN. TYPICAL AT ALL ROOF JOISTS, ALL BAYS, IN ADDITION TO STANDARD HORIZONTAL BRIDGING SHOWN ON PLAN. SEE SHEET JE4 FOR SECTIONS.



FIELD BOLTED SPICE ERECTOR NOTE:
YOU MUST "MATCH MATES".
REFER TO THE FIELD BOLTED SPICE SECTION AND NOTES FOR INSTRUCTIONS.
THIS IS A VERY CRITICAL ERECTION STEP.

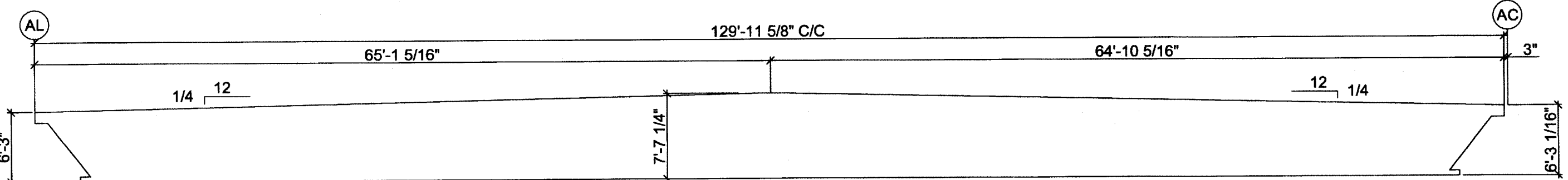


DIAGRAM A
SPJ4 & SPJ5 TOP CHORD LOADING
60pif DEAD LOAD
150pif LIVE LOAD
SELF WEIGHT NOT INCLUDED
SPJ4 BOTTOM CHORD LOADING
250pif OR 2500# AT CRITICAL P.P. EQ. SPACING
SPJ5 BOTTOM CHORD LOADING
225pif OR 2000# AT CRITICAL P.P. EQ. SPACING

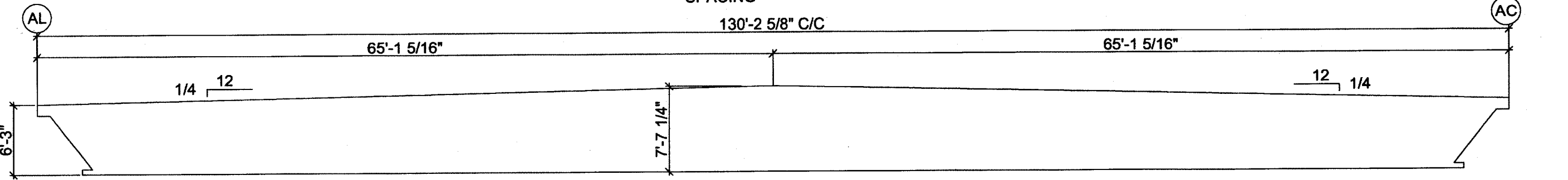
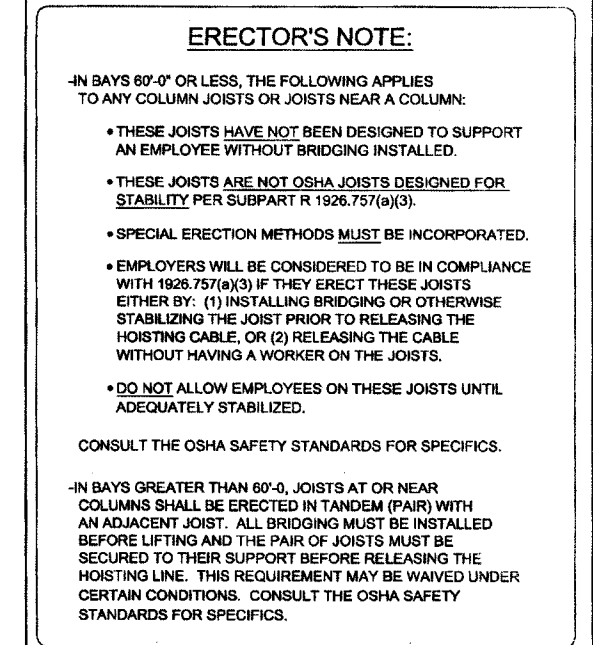
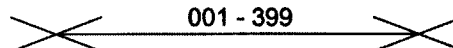



DIAGRAM B
SPJ4 & SPJ5 TOP CHORD LOADING
60pif DEAD LOAD
150pif LIVE LOAD
SELF WEIGHT NOT INCLUDED
SPJ4 BOTTOM CHORD LOADING
250pif OR 2500# AT CRITICAL P.P. EQ. SPACING
SPJ5 BOTTOM CHORD LOADING
225pif OR 2000# AT CRITICAL P.P. EQ. SPACING





1. PIECEMARKED END IS TAG END ON PLAN
2. NET UPLIFT = 10psf, 60plf
3. SEQUENCE #2 - TAG COLOR: BLUE
4. ——— H3 = L 1 1/2" x 1 1/2" CONTINUOUS HORIZONTAL BRIDGING TYP @ TOP AND BOTTOM CHORDS. LOCATE AS SHOWN ON PLAN. SEE SHEET JE4 FOR SECTIONS.
5.  001 - 399
BOLTED-X BRIDGING L 1 1/4" x 1 1/4", TYPICAL. SEE PLAN FOR MARK NO AND LOCATION. SEE SHEET JE4 FOR SECTIONS.
6.  ERECTION STABILITY BRIDGING. MUST BE INSTALLED PRIOR TO THE SLACKENING OF THE HOISTING LINES.
7. ——— UPLIFT BRIDGING
1 ROW OF HORIZONTAL BRIDGING @ 1ST BOTTOM CHORD PANEL POINT ON EACH END OF JOISTS AS SHOWN. TYPICAL AT ALL ROOF JOISTS, ALL BAYS, IN ADDITION TO STANDARD HORIZONTAL BRIDGING SHOWN ON PLAN. SEE SHEET JE4 FOR SECTIONS.

NOTE: GREY PRIMER TO BE USED

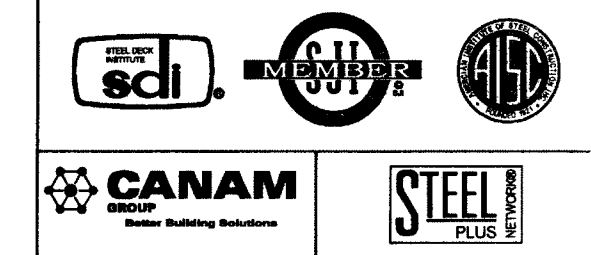
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- ### ERECTOR'S NOTE:
- IN BAYS 60'-0" OR LESS, THE FOLLOWING APPLIES TO ANY COLUMN JOISTS OR JOISTS NEAR A COLUMN:
- THESE JOISTS HAVE NOT BEEN DESIGNED TO SUPPORT AN EMPLOYEE WITHOUT BRIDGING INSTALLED.
 - THESE JOISTS ARE NOT OSHA JOISTS DESIGNED FOR STABILIZATION PER SUBPART 1926.753(a)(3).
 - SPECIAL ERECTION METHODS MUST BE INCORPORATED.
 - EMPLOYERS WILL BE CONSIDERED TO BE IN COMPLIANCE WITH 1926.753(a)(3) IF THEY ERECT THESE JOISTS EITHER BY: (1) INSTALLING BRIDGING OR OTHERWISE STABILIZING THE JOIST PRIOR TO RELEASING THE HOISTING CABLE, OR (2) RELEASING THE CABLE WITHOUT HAVING A WORKER ON THE JOIST.
 - DO NOT ALLOW EMPLOYEES ON THESE JOISTS UNTIL ADEQUATELY STABILIZED.
- CONSULT THE OSHA SAFETY STANDARDS FOR SPECIFICS.
- IN BAYS GREATER THAN 60'-0", JOISTS AT OR NEAR COLUMNS SHALL BE ERECTED IN TENSION (PULL) WITH AN ADJACENT JOIST. ALL BRIDGING MUST BE INSTALLED BEFORE LIFTING AND THE JOIST MUST BE SECURED TO THEIR SUPPORT BEFORE RELEASING THE HOISTING LINE. THIS REQUIREMENT MAY BE WAIVED UNDER CERTAIN CONDITIONS. CONSULT THE OSHA SAFETY STANDARDS FOR SPECIFICS.

DESIGN METHOD:
ASD ☐ LRFD ☐ FACTORED ☐

REVISION NO.	DATE	DESCRIPTION
1	3/18/2008	DATE SENT FOR FIELD USE:
2	6/18/2007	DATE SENT FOR APPROVAL:

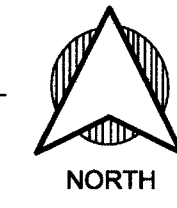


FOR FIELD USE

CANAM Joists and Steel Deck 2000, West Main Street, Washington, MO 63090 Phone: (636) 228-5747 Fax: (636) 228-1150	
PROJECT NAME: LAWRENCE CENTRAL HS BEDFORD, IN.	DRAWN BY: FAM
TITLE: HIGH ROOF	CHECKED BY: Washington
CUSTOMER: STONE CITY IRONWORKS, INC.	DESIGNED BY: BAW
ARCHITECT: GIBALTAR DESIGN	PROJECT: H01735
DRAWING NO: JE3	DATE: 4

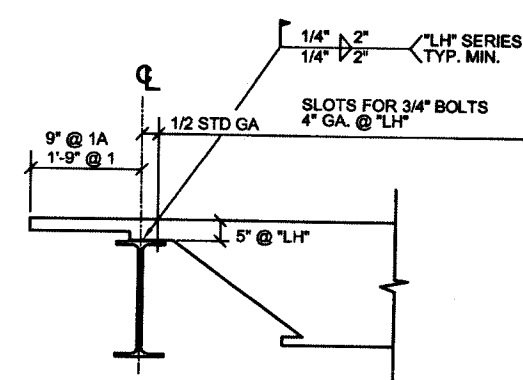
HIGH ROOF JOIST FRAMING PLAN

UNIT "C & D"

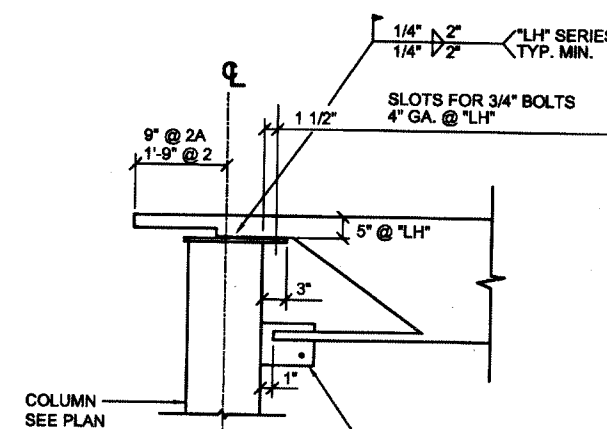


FIELD BOLTED SPLICE ERECTOR NOTE:
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AND NOTES FOR INSTRUCTIONS.
THIS IS A VERY CRITICAL ERECTION STEP.

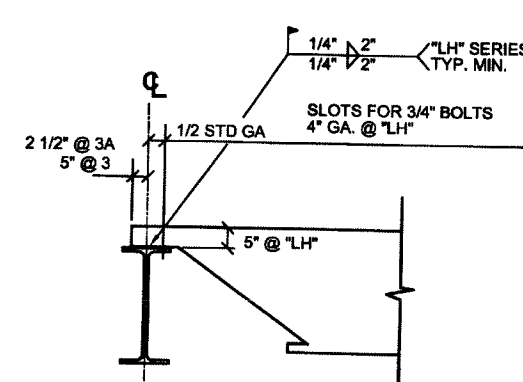
FOR FIELD USE 4-02-08



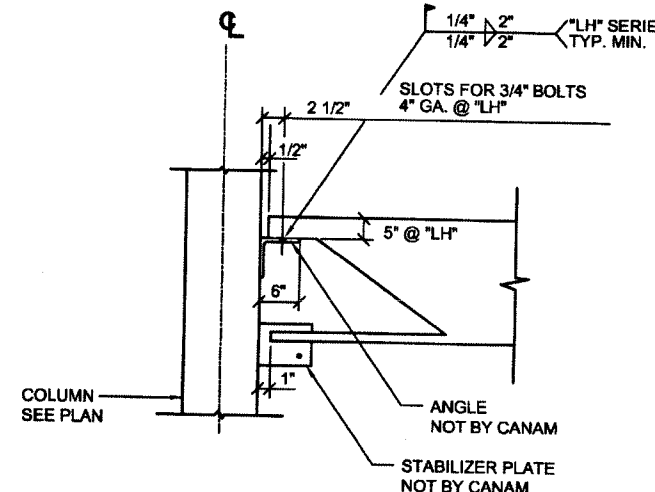
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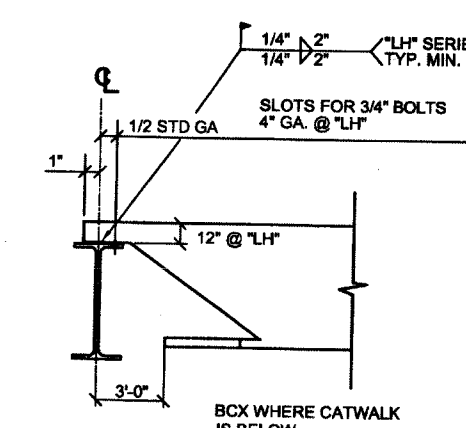
JOIST SECTION 2 & 2A
BOLTS NOT BY CANAM



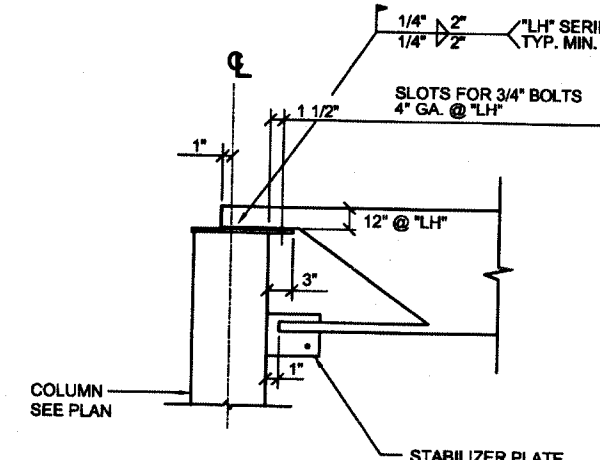
JOIST SECTION 3 & 3A
BOLTS NOT BY CANAM



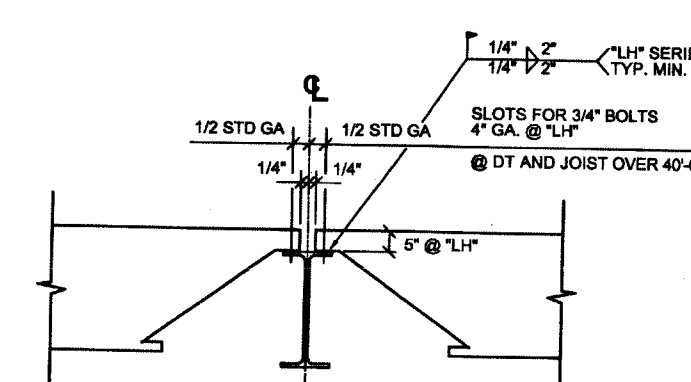
JOIST SECTION 4
BOLTS NOT BY CANAM



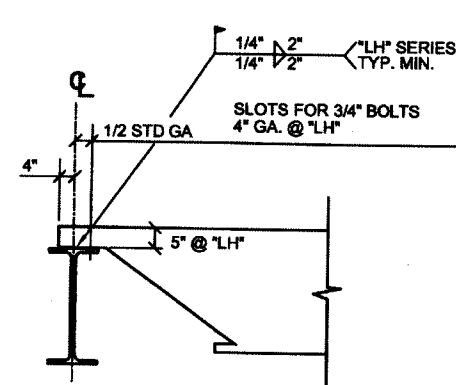
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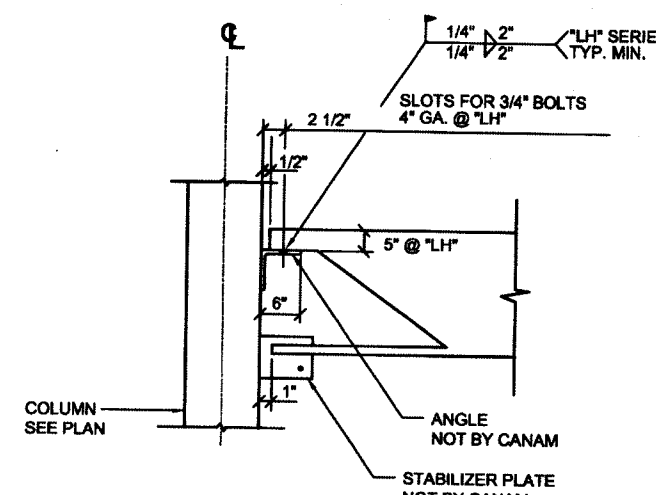
JOIST SECTION 6
BOLTS NOT BY CANAM



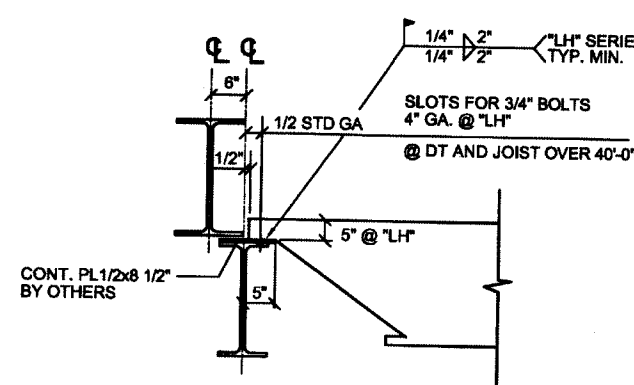
JOIST SECTION 7
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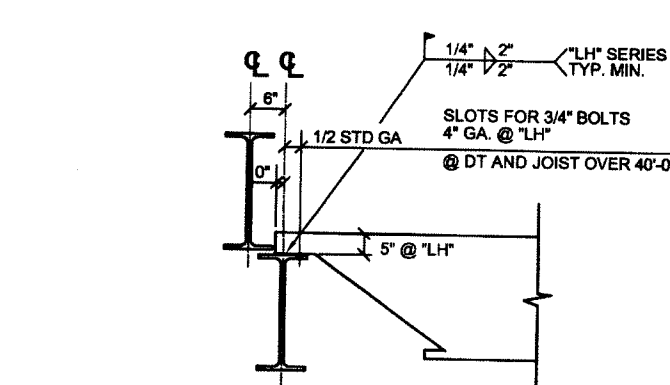
JOIST SECTION 8
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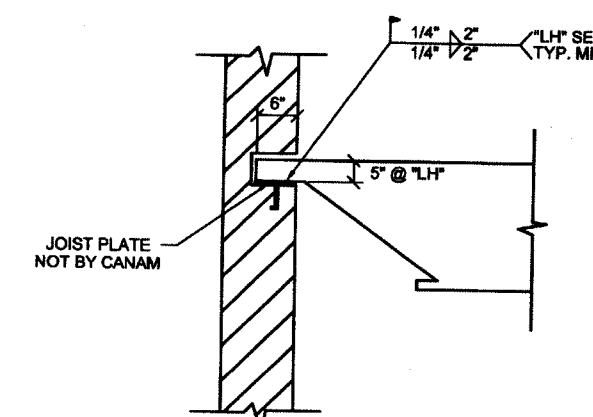
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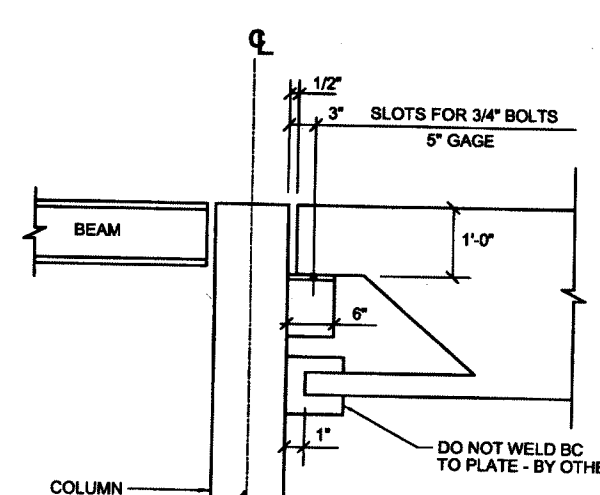
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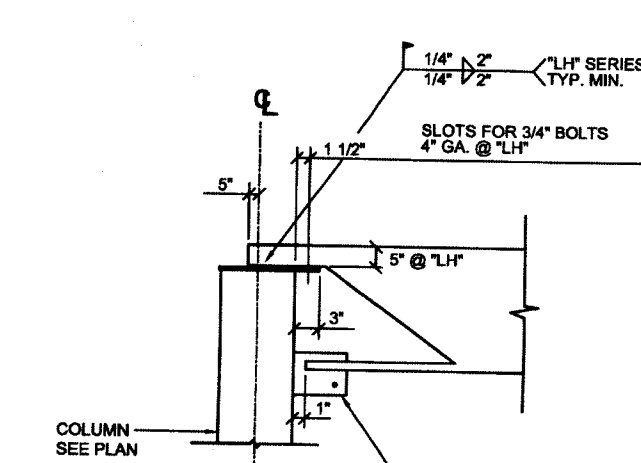
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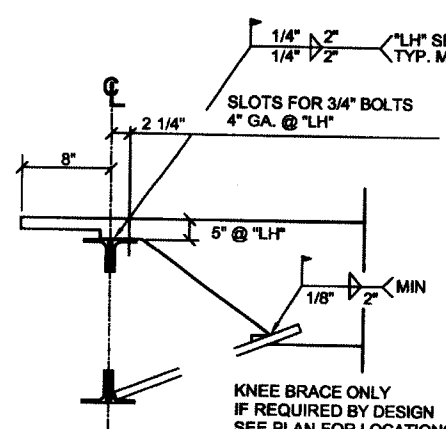
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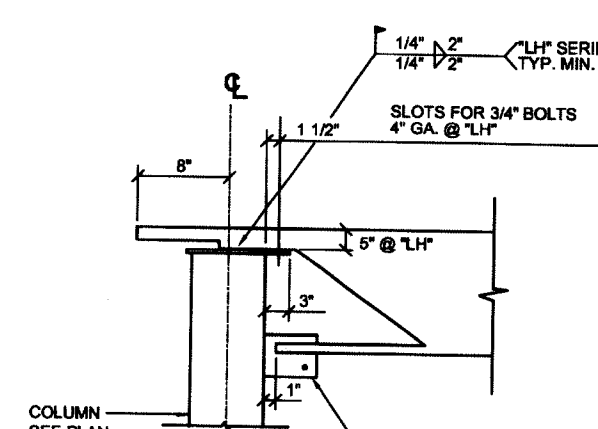
GIRDER SECTION 13
BOLTS NOT BY CANAM



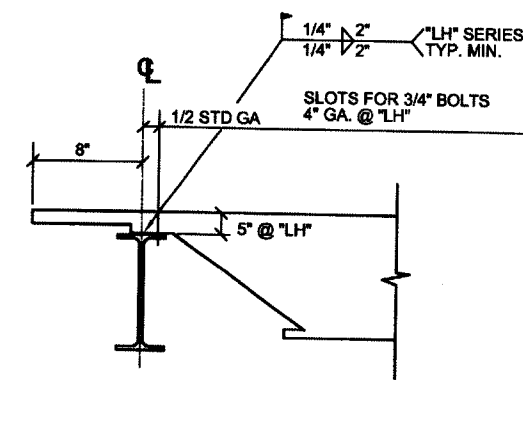
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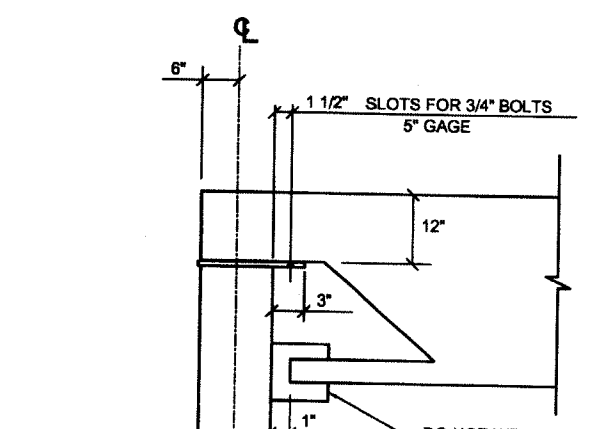
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BOLTS BY CANAM



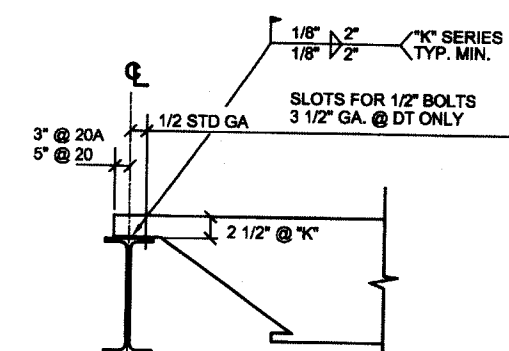
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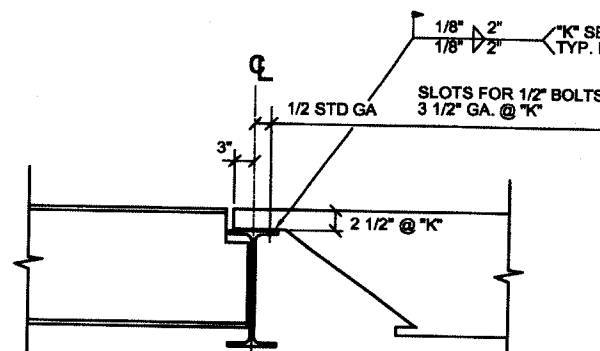
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BOLTS NOT BY CANAM



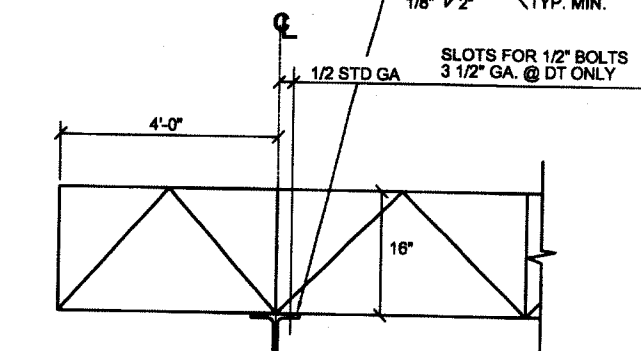
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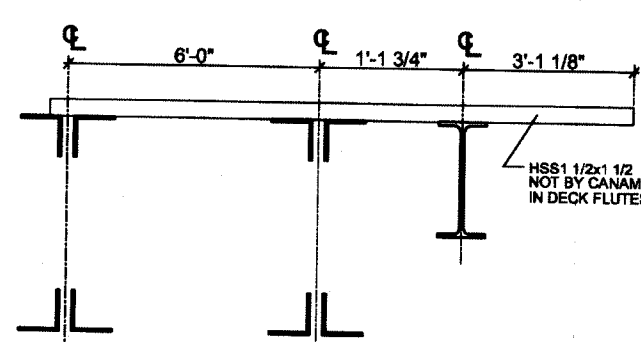
JOIST SECTION 20 & 20A
BOLTS NOT BY CANAM



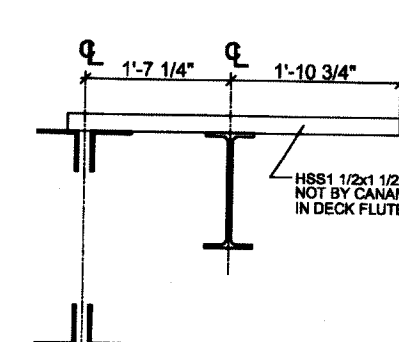
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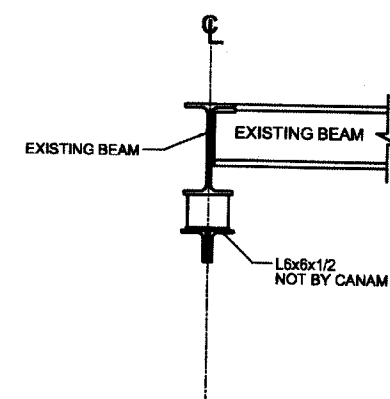
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BOLTS NOT BY CANAM



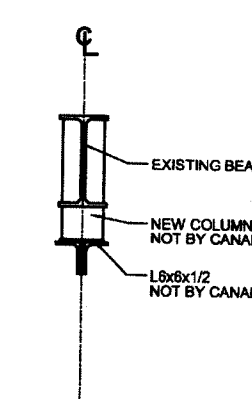
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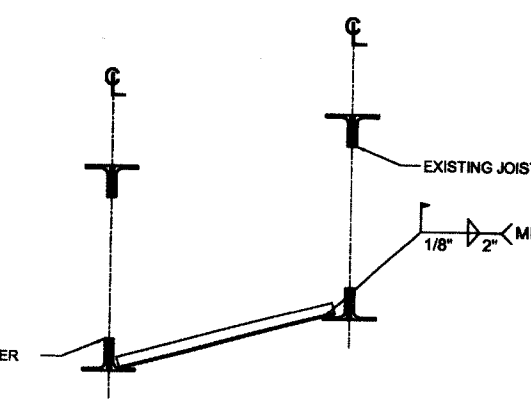
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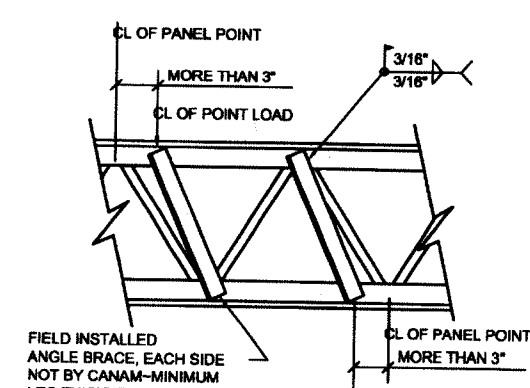
JOIST SECTION 26



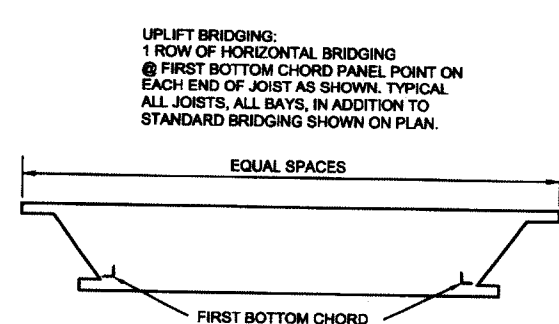
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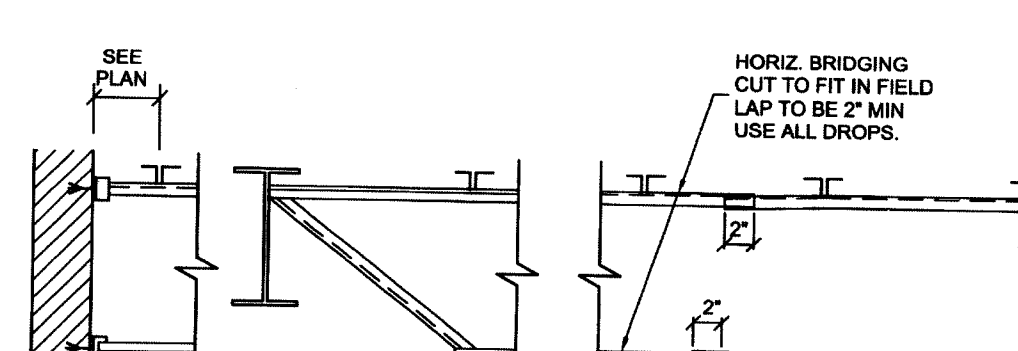
JOIST SECTION 28



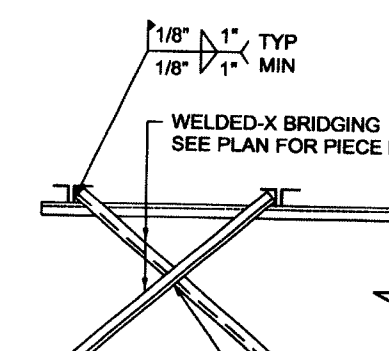
TYPICAL JOIST REINFORCEMENT AT CONCENTRATED LOADS



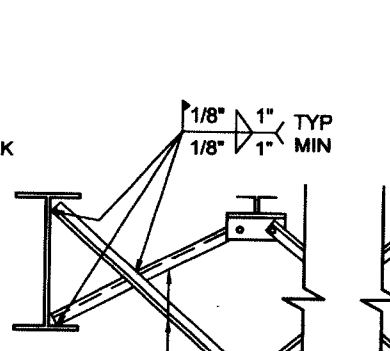
TYP. UPLIFT BRDG. DETAIL



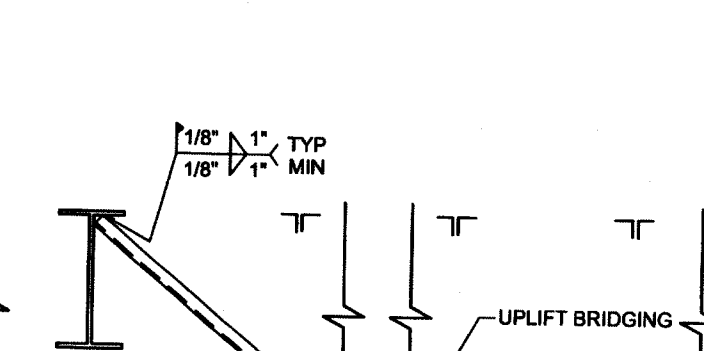
BRIDGING ANCHOR
PIECE MARK BAC = 2 1/2\"/>



WELDED-X BRIDGING
SEE PLAN FOR PIECE MARK



BOLTED-X BRIDGING
SEE PLAN FOR PIECE MARK



UPLIFT BRIDGING
1/8\"/>

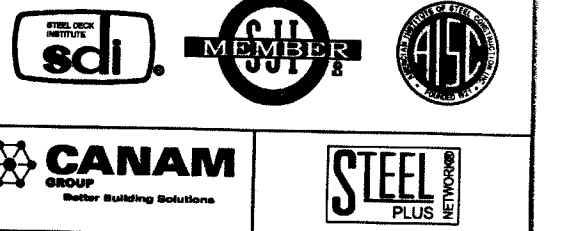
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- ERECTOR'S NOTE:**
- IN BAYS 8'-0\"/>

DESIGN METHOD:
ASD ☒ LRFD ☐ FACTORED ☐

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DATE SENT FOR FIELD USE: 3/18/2008
DATE SENT FOR APPROVAL: 6/18/2007

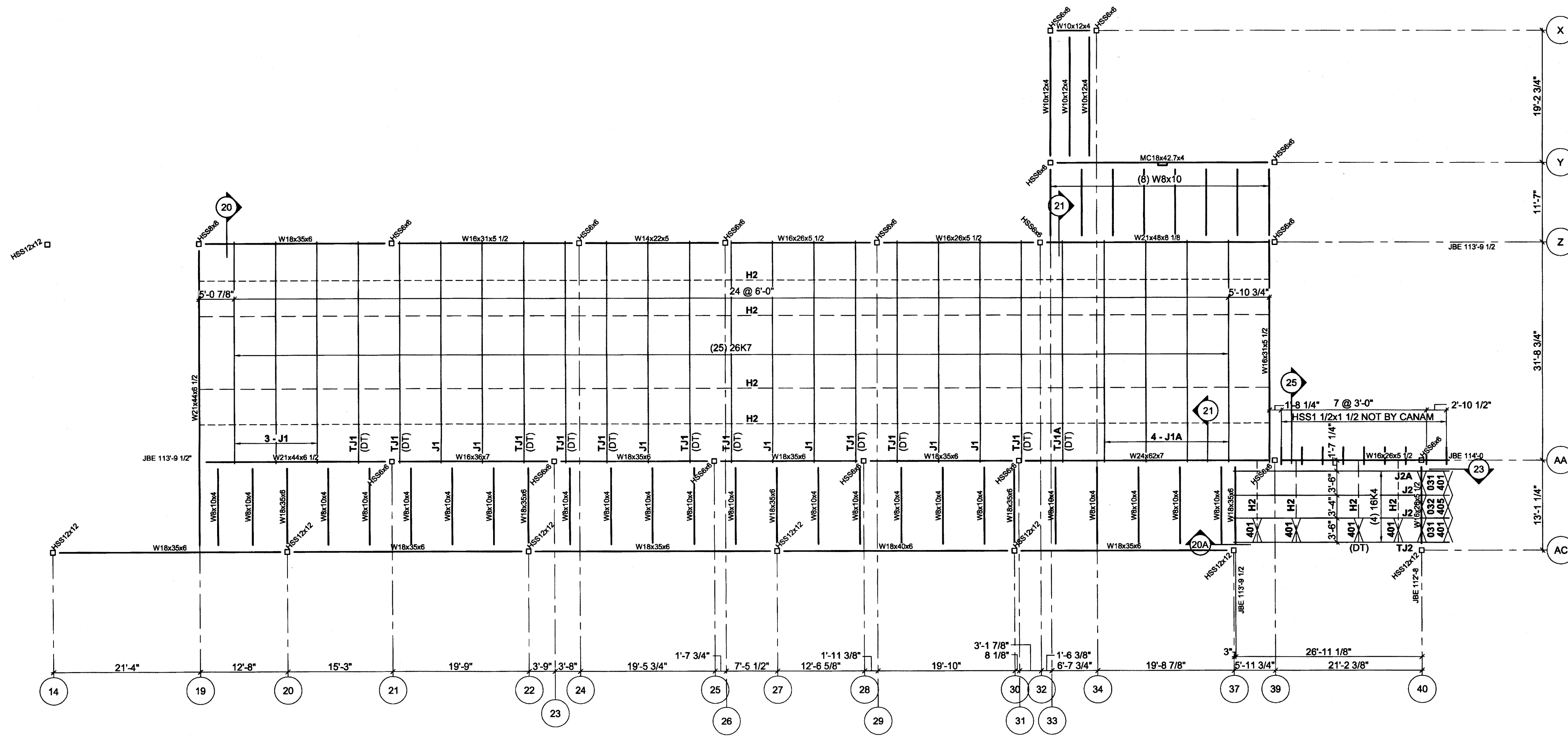


FOR FIELD USE

CANAM
Joists and Steel Deck
2000 West Main Street, Washington, MO 63090-1008
Phone: (636) 298-6716 Fax: (636) 298-6110

PROJECT NAME: LAWRENCE CENTRAL HS
LOCATION: BEDFORD, IN.
TITLE: SECTIONS
CUSTOMER: STONE CITY IRONWORKS, INC.
ARCHITECT: GIBALTAR DESIGN
ENGINEER: GIBALTAR DESIGN

DRAWN BY: FAN DATE: 5/25/2007 PLANT: Washington
CHECKED BY: BAW DATE: 7/25/2007 PROJECT: H07735
DRAWING NO: JE4 of 4



LOW ROOF JOIST FRAMING PLAN
UNIT "B"



NOTE: GREY PRIMER
TO BE USED

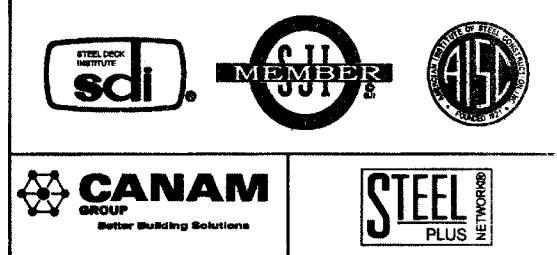
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 - Paint - One shop coat Grey Primer (Specifications provided upon request)
 - The balance of this drawing does not constitute the acceptance of a customer's order.
 - ©2008, Canam Steel Corporation. Unauthorized use of this drawing and information provided herein is strictly forbidden.
 - Canam will be furnished on all joists and joist girders (see S.I.I. latest edition for approximate camber) unless specifically modified by the contract documents. Camber and deflection must be considered when detailing framing adjacent or framing to joists or girders.
 - The design is based upon load information specifically submitted to Canam Steel Corporation. No special loads or other forces have been provided for unless purchaser has requested them in writing. Such special loads or other forces shall include, without limitation, uplift concentrated loads from roof top units, axial loads from tower angles, etc.
 - Canam's erection drawings have been prepared using the Structural portion of the correct drawings as its primary guide using the Architectural drawings (when provided) only for missing information or for clarification. Canam does not accept any responsibility for discrepancies between the Structural and Architectural drawings.

- ERECTION NOTES**
- This drawing is to be used only for the erection of products supplied by Canam Steel Corporation as indicated by an erection mark on the plans and/or sections.
 - Canam Steel Corporation is not responsible for the handling and erection of materials it supplies. The design and manufacture of the materials assumes that they are handled in accordance with all applicable laws and regulations. Canam Steel Corporation is not responsible for any misreading or failure to properly erect the materials.
 - Canam Steel Corporation has not examined any field conditions and assumes no responsibility for any site conditions. Purchaser must notify Canam Steel Corporation of any discrepancies between the field conditions and Canam Steel Corporation's File and Field Use drawings.
 - Any modification of material supplied by Canam Steel Corporation without prior written consent will automatically release Canam from all liability with respect to such material.

- ERECTOR'S NOTE:**
- IN BAYS 8'-0" OR LESS, THE FOLLOWING APPLIES TO ANY COLUMN JOISTS OR JOISTS NEAR A COLUMN:
- THESE JOISTS HAVE NOT BEEN DESIGNED TO SUPPORT AN EMPLOYEE WITHOUT BRIDGING INSTALLED.
 - THESE JOISTS ARE NOT OSHA JOISTS DESIGNED FOR STABILITY PER SUPPORT IN 1918.735(a)(3).
 - SPECIAL ERECTION METHODS MUST BE INCORPORATED.
 - EMPLOYERS WILL BE CONSIDERED TO BE IN COMPLIANCE WITH 1918.735(a)(3) IF THEY ERECT THESE JOISTS EITHER BY: (1) INSTALLING BRIDGING OR OTHERWISE STABILIZING THE JOIST PRIOR TO RELEASING THE HOISTING CABLE, OR (2) RELEASING THE CABLE WITHOUT HAVING A WORKER ON THE JOIST.
 - DO NOT ALLOW EMPLOYERS ON THESE JOISTS UNTIL ADEQUATELY STABILIZED.
- CONSULT THE OSHA SAFETY STANDARDS FOR SPECIFICS.
- IN BAYS GREATER THAN 8'-0", JOISTS AT OR NEAR COLUMNS SHALL BE ERECTED IN PATTERN (PAIR) WITH AN ADJACENT JOIST. ALL BRIDGING MUST BE INSTALLED BEFORE LIFTING AND THE PAIR OF JOISTS MUST BE SECURED TO THEIR SUPPORT BEFORE RELEASING THE HOISTING LINE. THIS REQUIREMENT MAY BE WAIVED UNDER CERTAIN CONDITIONS. CONSULT THE OSHA SAFETY STANDARDS FOR SPECIFICS.

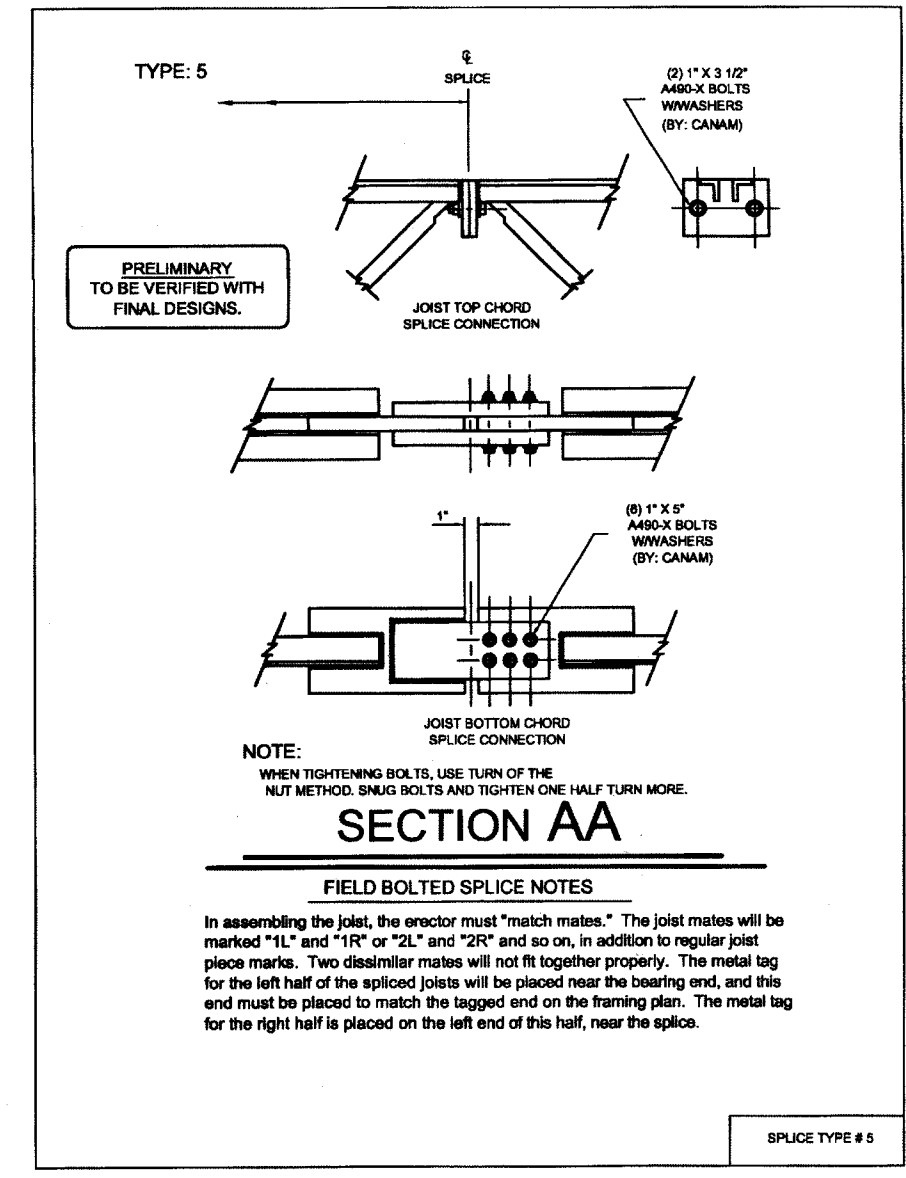
DESIGN METHOD:
ASD ☒ LRFD ☐ FACTORED ☐

REVISION NO.	DATE	DESCRIPTION
DATE SENT FOR FIELD USE:	3/16/2008	
DATE SENT FOR APPROVAL:	6/16/2007	

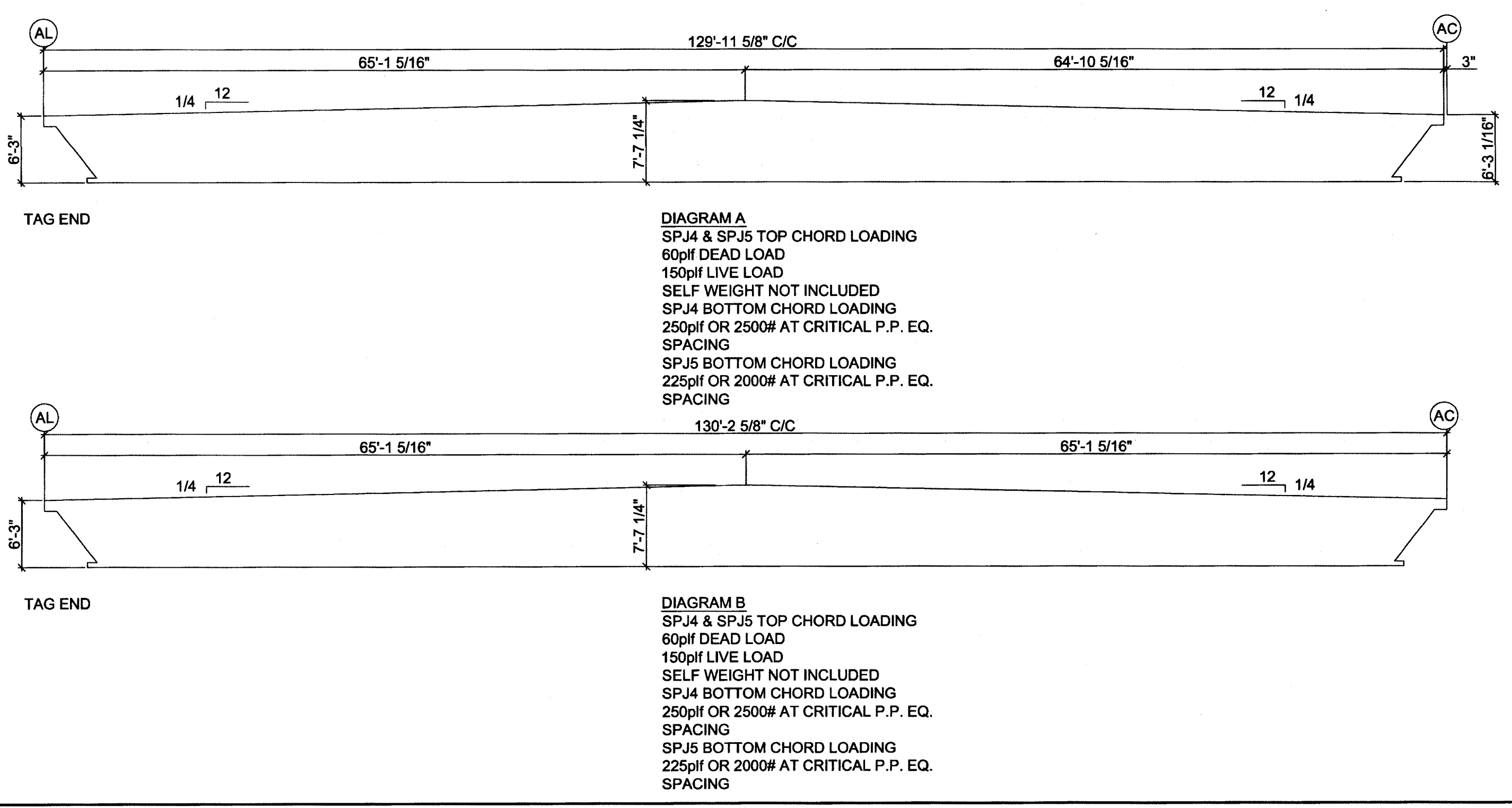


FOR FIELD USE	
CANAM Joists and Steel Deck 2000, West Lake Blvd., Washington, MO, 63090-1008 Phone: (800) 224-8773 Fax: (800) 224-4150	
PROJECT NAME:	LAWRENCE CENTRAL HS
LOCATION:	BEDFORD, IN.
TITLE:	LOW ROOF
CUSTOMER:	STONE CITY IRONWORKS, INC.
ARCHITECT:	GIBALTAR DESIGN
ENGINEER:	GIBALTAR DESIGN
DATE:	5/25/2007
PROJECT:	Washington
ORDER BY:	DATE: 5/25/2007
BY:	H01735
DRAWING NO.:	JE1 of 4

- PIECEMARKED END IS TAG END ON PLAN
- NET UPLIFT = 10psf, 60plf
- SEQUENCE #2 - TAG COLOR: BLUE
- H2 = L 1 1/4" x 1 1/4", TYP UNO
CONTINUOUS HORIZONTAL BRIDGING
TYP @ TOP AND BOTTOM CHORDS.
LOCATE AS SHOWN ON PLAN.
SEE SHEET JE4 FOR SECTIONS.
- 001 - 399
BOLTED-X BRIDGING L 1 1/4" x 1 1/4", TYPICAL.
SEE PLAN FOR MARK NO AND LOCATION.
SEE SHEET JE4 FOR SECTIONS.
- 400 - 799
WELDED-X BRIDGING L 1" x 1", TYPICAL.
SEE PLAN FOR MARK NO AND LOCATION.
SEE SHEET JE4 FOR SECTIONS.
- UPLIFT BRIDGING
1 ROW OF HORIZONTAL BRIDGING @ 1ST
BOTTOM CHORD PANEL POINT ON EACH
END OF JOISTS AS SHOWN. TYPICAL AT
ALL ROOF JOISTS, ALL BAYS, IN ADDITION TO
STANDARD HORIZONTAL BRIDGING SHOWN
ON PLAN. SEE SHEET JE4 FOR SECTIONS.



FIELD BOLTED SPICE ERECTOR NOTE:
YOU MUST "MATCH MATES".
REFER TO THE FIELD BOLTED SPICE SECTION
AND NOTES FOR INSTRUCTIONS.
THIS IS A VERY CRITICAL ERECTION STEP.



GENERAL NOTES

1. All products provided by Canam Steel Corporation in connection with this drawing are subject to Canam Steel Corporation's Standard Terms and Conditions for Joist Sales. By accepting the product, the purchaser acknowledges that they have received and reviewed these terms and conditions.

2. Minimum design requirements to be per S.J.I. (and S.D.I. when deck is supplied by Canam) latest edition, unless otherwise noted herein.

3. Paint - One shop coat Gray Primer (Specifications provided upon request)

4. The issuance of this drawing does not constitute the acceptance of a customer's order.

5. ©2007, Canam Steel Corporation. Unauthorized use of this drawing and information provided herein is strictly forbidden.

6. Canam will be furnished on all joists and joist girders (see S.J.I. latest edition for appropriate number) unless specifically modified by the contract documents. Canam and deflection must be considered when detailing framing adjacent or framing to joists or joist girders.

7. The design is based upon load information specifically submitted to Canam Steel Corporation. No special loads or other forces have been provided for unless purchaser has requested them in writing. Such special loads or other forces shall include, without limitation, uplift/concentrated loads from roof top units, axial loads from kicker angles, etc.

8. Canam's erection drawings herein were prepared using the Structural portion of the contract drawings as its primary guide using the Architectural drawings (when provided) only for missing information or for clarification. Canam does not accept any responsibility for discrepancies between the Structural and Architectural drawings.

ERECTION NOTES

1. This drawing is to be used only for the erection of products supplied by Canam Steel Corporation as indicated by an erection mark on the plans and/or sections.

2. Canam Steel Corporation is not responsible for the handling and erection of materials it supplies. The design and manufacture of the materials assumes that they are handled in accordance with all applicable laws and regulations. Canam Steel Corporation is not responsible for any mishandling or failure to properly erect the materials.

3. Canam Steel Corporation has not examined any field conditions and assumes no responsibility for any site conditions. Purchaser must notify Canam Steel Corporation of any discrepancies between the field conditions and Canam Steel Corporation's File and Field Use drawings.

4. Any modification of material supplied by Canam Steel Corporation without prior written consent will automatically release Canam from all liability with respect to such material.

ERECTOR'S NOTE:

-IN BAYS 8'-0" OR LESS, THE FOLLOWING APPLIES TO ANY COLUMN JOISTS OR JOISTS NEAR A COLUMN:

- * THESE JOISTS HAVE NOT BEEN DESIGNED TO SUPPORT AN EMPLOYEE WITHOUT BRIDGING INSTALLED.
- * THESE JOISTS ARE NOT OSHA JOISTS DESIGNED FOR STABILITY PER SUBPART K IN 1926.751(N3).
- * SPECIAL ERECTION METHODS MUST BE INCORPORATED.
- * EMPLOYEES WILL BE CONSIDERED TO BE IN COMPLIANCE WITH 1926.751(N3) IF THEY ERECT THESE JOISTS EITHER BY: (1) INSTALLING BRIDGING OR OTHERWISE STABILIZING THE JOIST PRIOR TO RELEASING THE HOISTING CABLE OR (2) RELEASING THE CABLE WITHOUT HAVING A WORKER ON THE JOISTS.
- * DO NOT ALLOW EMPLOYEES ON THESE JOISTS UNTIL ADEQUATELY STABILIZED.

CONSULT THE OSHA SAFETY STANDARDS FOR SPECIFICS.

-IN BAYS GREATER THAN 8'-0" JOISTS AT OR NEAR COLUMNS SHALL BE ERECTED IN TANDEM (PAIR) WITH AN ADJACENT JOIST. ALL BRIDGING MUST BE INSTALLED BEFORE LIFTING AND THE PAIR OF JOISTS MUST BE SECURED TO THEIR SUPPORT BEFORE RELEASING THE HOISTING LINE. THIS REQUIREMENT MAY BE WAIVED UNDER CERTAIN CONDITIONS. CONSULT THE OSHA SAFETY STANDARDS FOR SPECIFICS.

REVISION NO.	DATE	DESCRIPTION
DATE SENT FOR FIELD USE:	6/15/2007	
DATE SENT FOR APPROVAL:	6/15/2007	

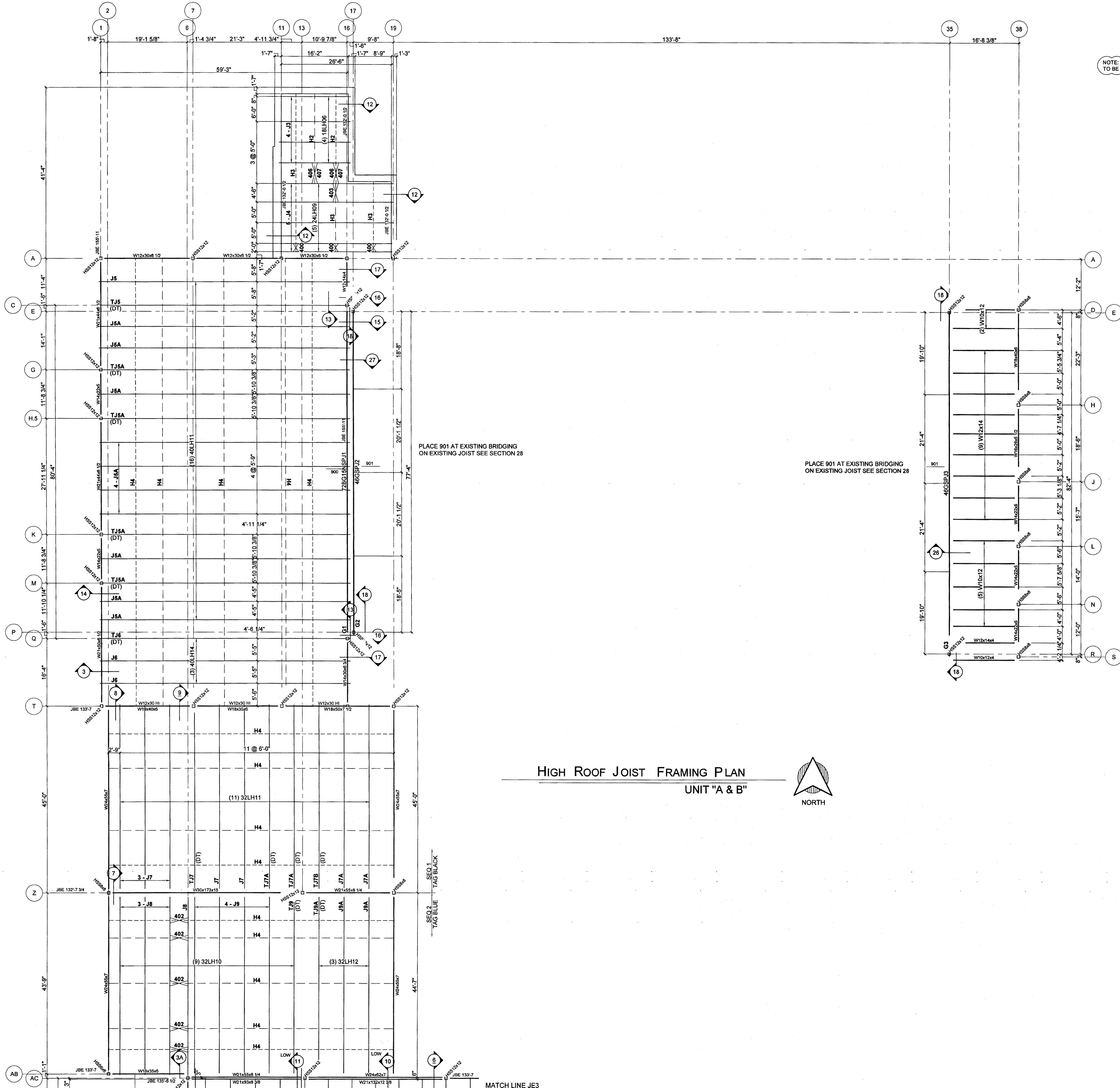
FOR FIELD USE

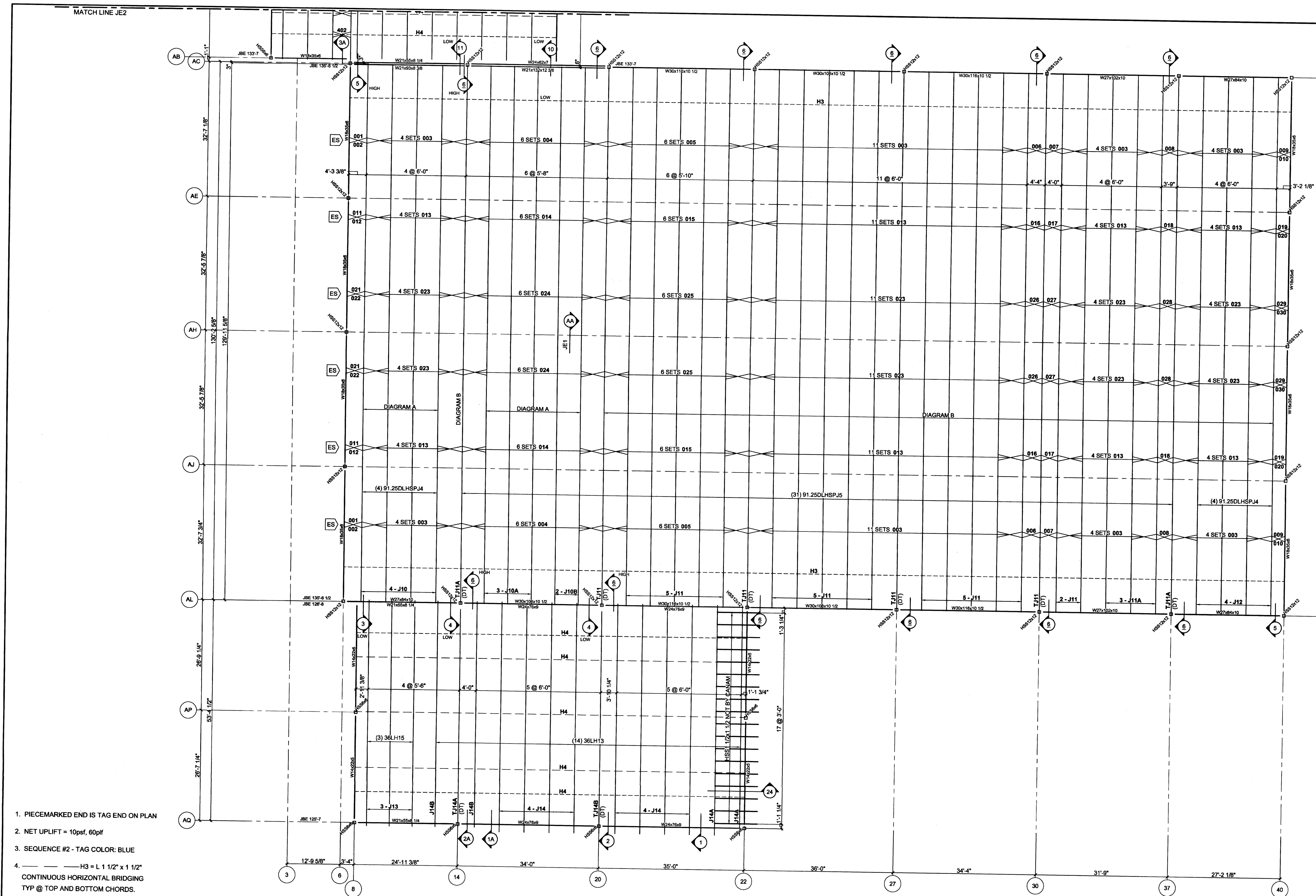
Joints and Steel Deck

2000, West Main Street, Warrington, MD, 21093-1108
Phone: (202) 224-4718 Fax: (202) 224-4135

PROJECT NAME:	LAWRENCE CENTRAL HS		
LOCATION:	BEDFORD, IN.		
TITLE:	HIGH ROOF		
CUSTOMER:	STONE CITY IRONWORKS, INC.		
ARCHITECT:	GIBALTAR DESIGN		
ENGINEER:	GIBALTAR DESIGN		
DRAWN BY:	DATE: 5/25/2007	PLANT:	Washington
CHECKED BY:	DATE: 7/23/2007	PROJECT:	H01735
BAW		DRAWING NO.:	JE2 of 4

NOTE: GREY PRIMER TO BE USED





- PIECEMARKED END IS TAG END ON PLAN
- NET UPLIFT = 10psf, 60pif
- SEQUENCE #2 - TAG COLOR: BLUE
- H3 = L 1 1/2" x 1 1/2"
CONTINUOUS HORIZONTAL BRIDGING
TYP @ TOP AND BOTTOM CHORDS.
LOCATE AS SHOWN ON PLAN.
SEE SHEET JE4 FOR SECTIONS.
- 001 - 399
BOLTED-X BRIDGING L 1 1/4" x 1 1/4", TYPICAL.
SEE PLAN FOR MARK NO AND LOCATION.
SEE SHEET JE4 FOR SECTIONS.
- ERECTOR STABILITY BRIDGING.
MUST BE INSTALLED PRIOR TO THE
SLACKENING OF THE HOISTING LINES.
- UPLIFT BRIDGING
1 ROW OF HORIZONTAL BRIDGING @ 1ST
BOTTOM CHORD PANEL POINT ON EACH
END OF JOISTS AS SHOWN. TYPICAL AT
ALL ROOF JOISTS, ALL BAYS, IN ADDITION TO
STANDARD HORIZONTAL BRIDGING SHOWN
ON PLAN. SEE SHEET JE4 FOR SECTIONS.

HIGH ROOF JOIST FRAMING PLAN UNIT "C & D"



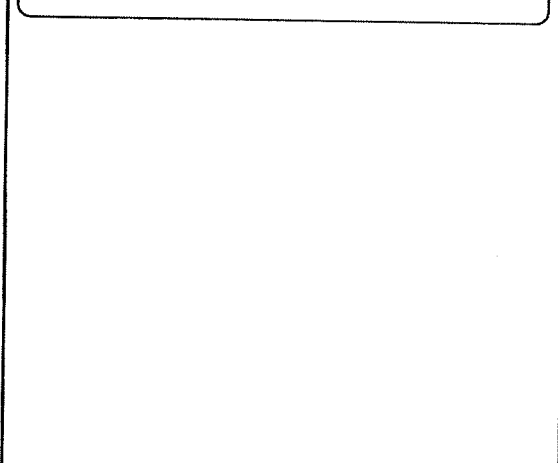
FIELD BOLTED SPLICE ERECTOR NOTE:
YOU MUST "MATCH MATES".
REFER TO THE FIELD BOLTED SPLICE SECTION
AND NOTES FOR INSTRUCTIONS.
THIS IS A VERY CRITICAL ERECTION STEP.

- GENERAL NOTES**
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 - ©2008, Canam Steel Corporation. Unauthorized use of this drawing and information provided herein is strictly forbidden.
 - Canam will be furnished on all joists and joist girders (see S.J.I. latest edition for approximate camber) unless specifically modified by the contract documents. Camber and selection must be considered when detailing framing adjacent or framing to joists or girders.
 - The design is based upon load information specifically submitted to Canam Steel Corporation. No special loads or other forces have been provided for unless purchaser has requested them in writing. Such special loads or other forces shall include, without limitation, uplift, concentrated loads from roof top units, axial loads from kick angles, etc.
 - Canam's erection drawings herein were prepared using the Structural portion of the contract drawings as its primary guide using the Architectural drawings when provided only for missing information or for clarification. Canam does not accept any responsibility for discrepancies between the Structural and Architectural drawings.

- ERECTION NOTES**
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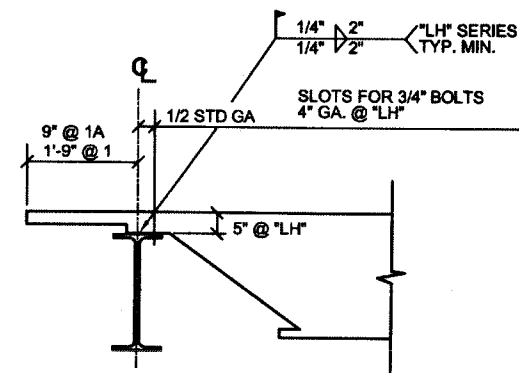
- ERECTION'S NOTE:**
- IN BAYS 6'-0" OR LESS, THE FOLLOWING APPLIES TO ANY COLUMN JOISTS OR JOISTS NEAR A COLUMN:
 - THESE JOISTS HAVE NOT BEEN DESIGNED TO SUPPORT AN EMPLOYEE WITHOUT BRIDGING INSTALLED.
 - THESE JOISTS ARE NOT OSHA JOISTS DESIGNED FOR STABILITY PER SUPPORT R 1926.751(a)(3).
 - SPECIAL ERECTION METHODS MUST BE INCORPORATED:
 - EMPLOYERS WILL BE CONSIDERED TO BE IN COMPLIANCE WITH 1926.751(a)(3) IF THEY ERECT THESE JOISTS EITHER BY: (1) INSTALLING BRIDGING OR OTHERWISE STABILIZING THE JOIST PRIOR TO RELEASING THE HOISTING CABLE OR (2) RELIEVING THE CABLE WITHOUT HAVING A WORKER ON THE JOIST.
 - DO NOT ALLOW EMPLOYERS ON THESE JOISTS UNTIL ADEQUATELY STABILIZED.
 - CONSULT THE OSHA SAFETY STANDARDS FOR SPECIFICS.
 - IN BAYS GREATER THAN 6'-0", JOISTS AT OR NEAR COLUMNS SHALL BE ERECTED IN TANDEM (PAIR) WITH AN ADJACENT JOIST. ALL BRIDGING MUST BE INSTALLED BEFORE LIFTING AND THE PAIR OF JOISTS MUST BE SECURED TO THEIR SUPPORT BEFORE RELEASING THE HOISTING LINE. THIS REQUIREMENT MAY BE WAIVED UNDER CERTAIN CONDITIONS. CONSULT THE OSHA SAFETY STANDARDS FOR SPECIFICS.

- DESIGN METHOD:**
ASD ☒ LRFD ☐ FACTORED ☐
- | REVISION NO. | DATE | DESCRIPTION |
|--------------------------|-----------|-------------|
| DATE SENT FOR FIELD USE: | 3/16/2008 | |
| DATE SENT FOR APPROVAL: | 6/18/2007 | |

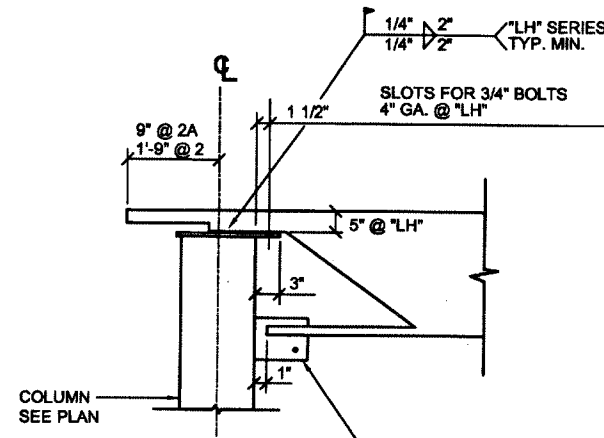


FOR FIELD USE
CANAM
2000 West Main Street, Washington, MO 63090-1208
Phone: (855) 238-6718 Fax: (855) 238-4155

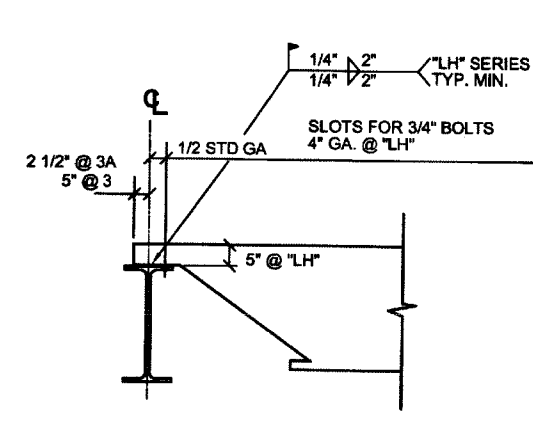
PROJECT NAME:	LAWRENCE CENTRAL HS
LOCATION:	BEDFORD, IN.
TITLE:	HIGH ROOF
OWNER:	STONE CITY IRONWORKS, INC.
ARCHITECT:	GIBRALTAR DESIGN
ENGINEER:	GIBRALTAR DESIGN
DRAWN BY:	PAW
CHECKED BY:	BAW
DATE:	5/22/2007
DATE:	7/23/2007
PROJECT:	Washington
PROJECT #:	H01735
DRAWING NO.:	JE3 of 4



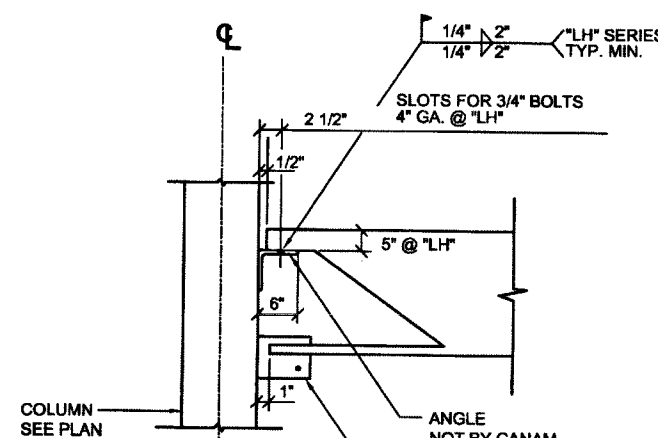
JOIST SECTION 1 & 1A
BOLTS NOT BY CANAM



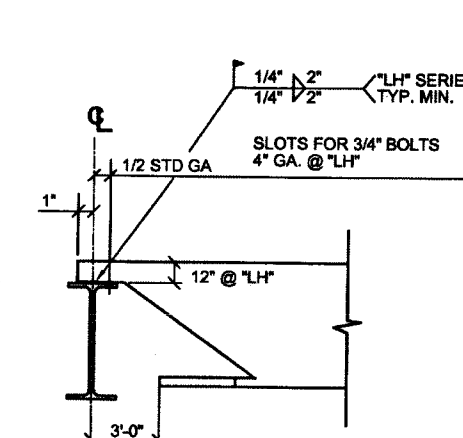
JOIST SECTION 2 & 2A
BOLTS NOT BY CANAM



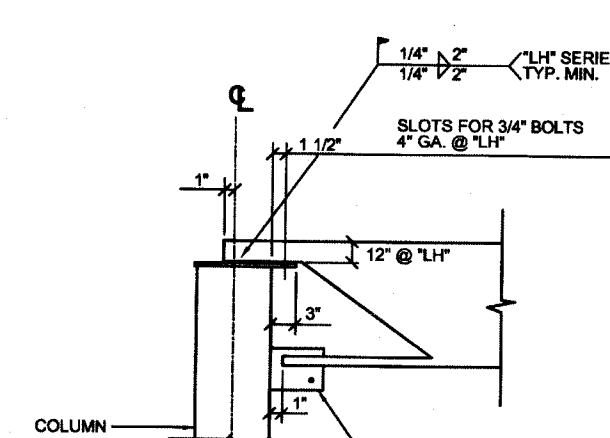
JOIST SECTION 3 & 3A
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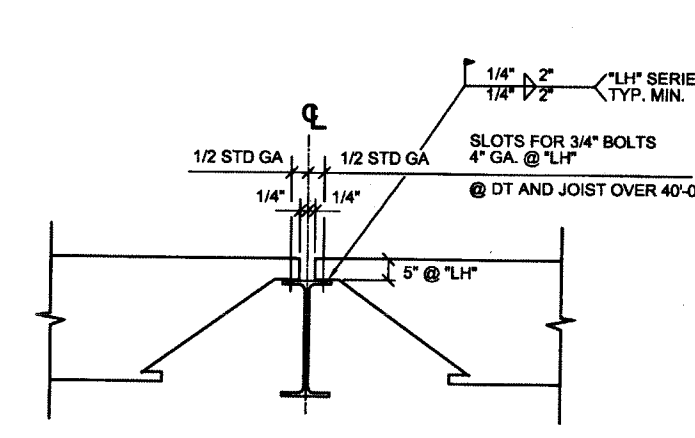
JOIST SECTION 4
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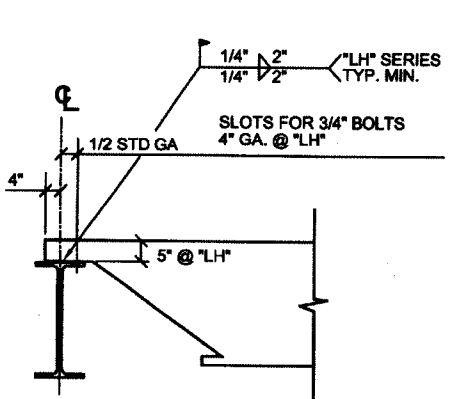
JOIST SECTION 5
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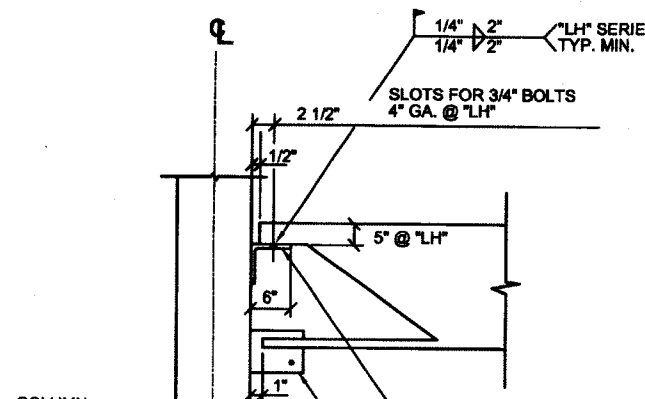
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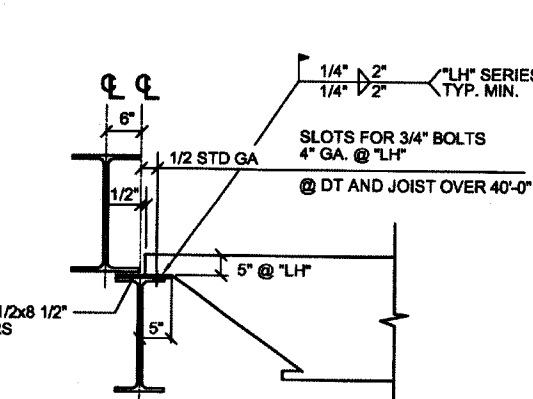
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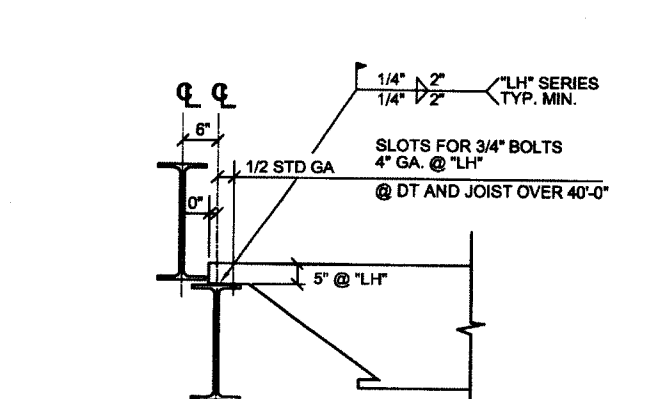
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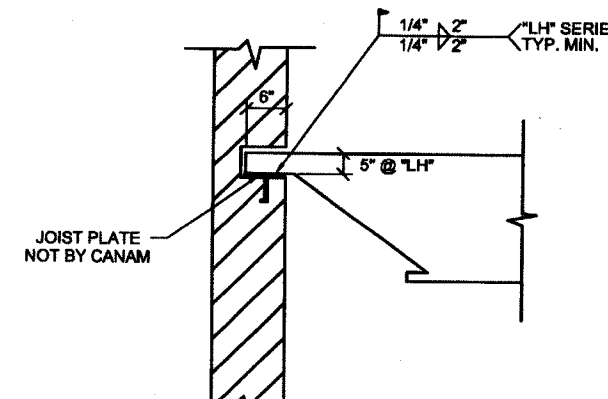
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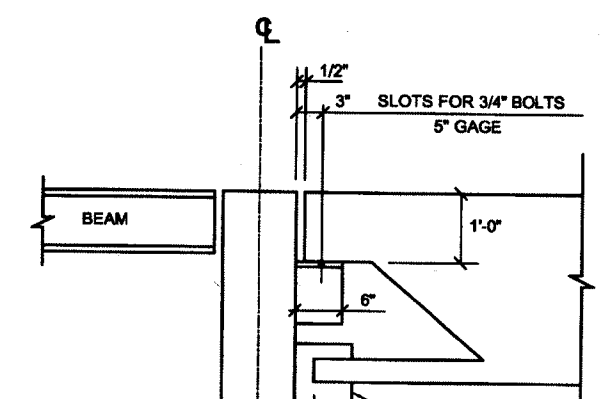
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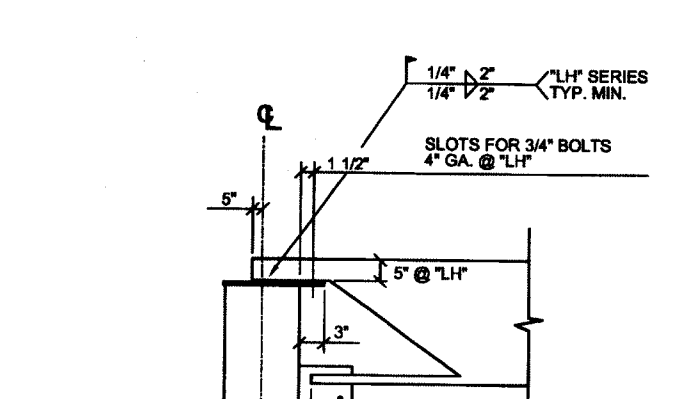
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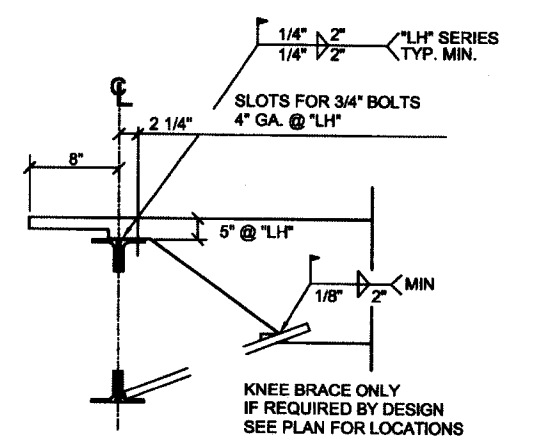
JOIST SECTION 12
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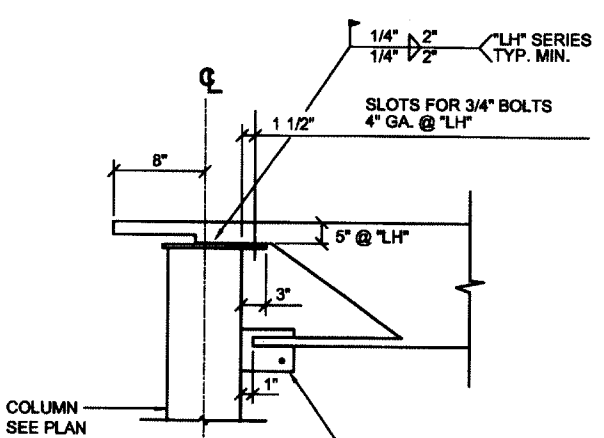
GIRDER SECTION 13
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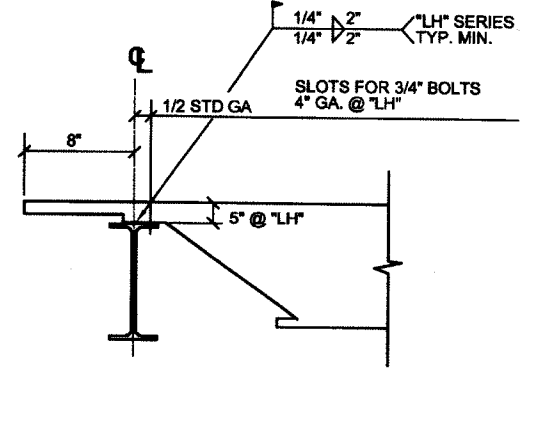
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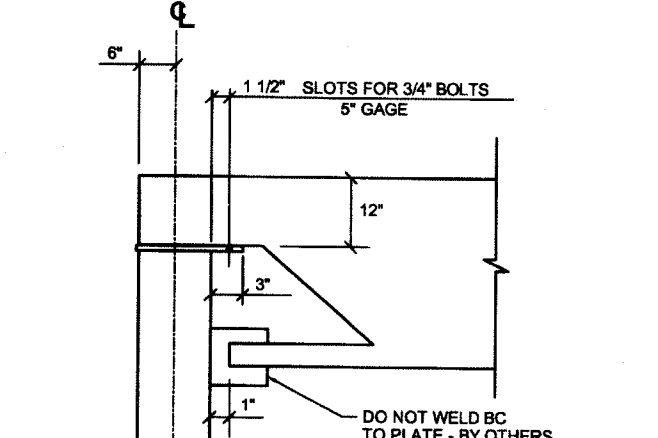
JOIST SECTION 15
BOLTS BY CANAM



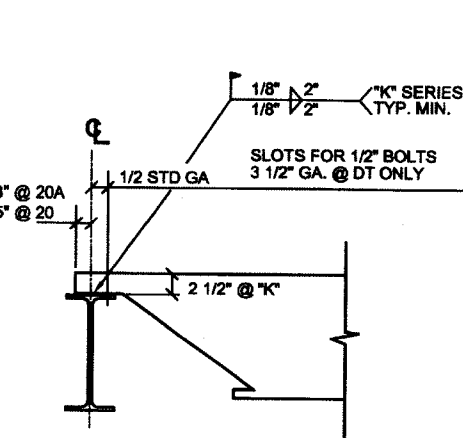
JOIST SECTION 16
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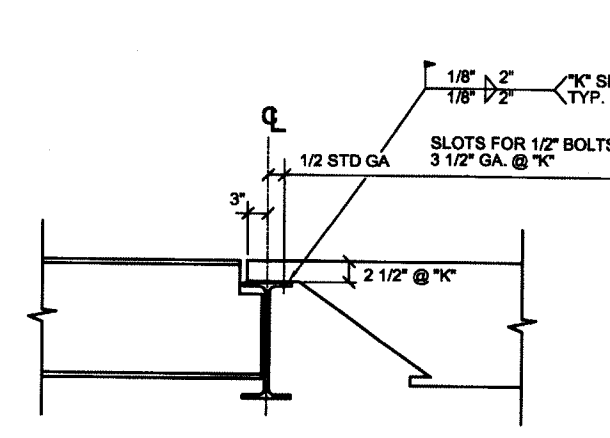
JOIST SECTION 17
BOLTS NOT BY CANAM



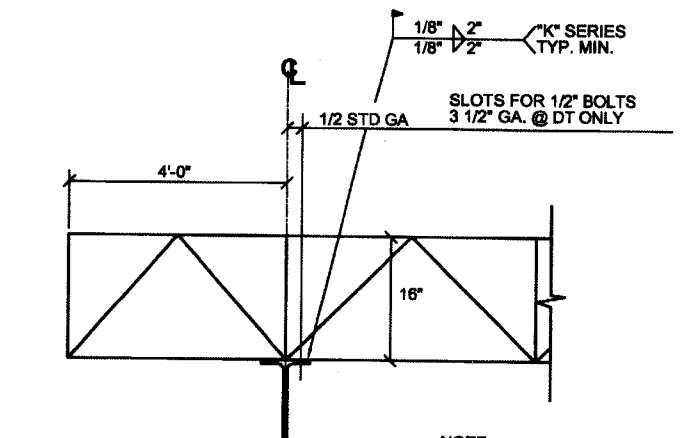
GIRDER SECTION 18
BOLTS NOT BY CANAM



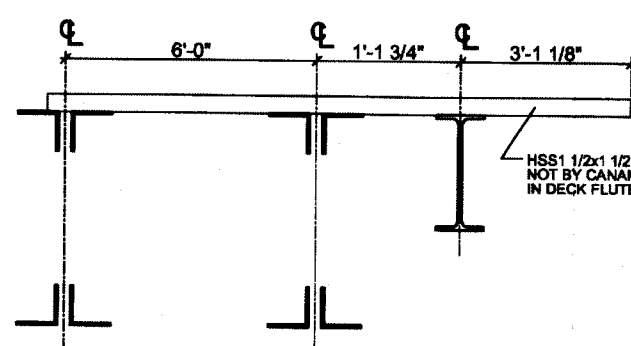
JOIST SECTION 20 & 20A
BOLTS NOT BY CANAM



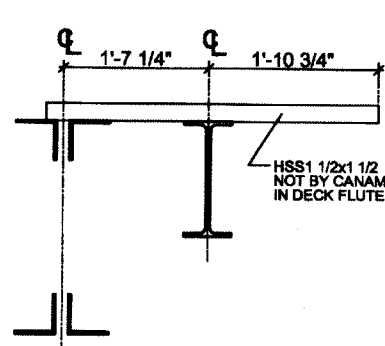
JOIST SECTION 21
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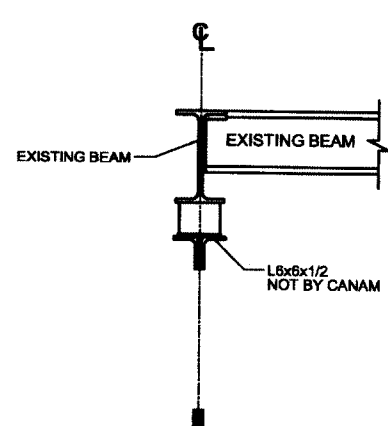
JOIST SECTION 23
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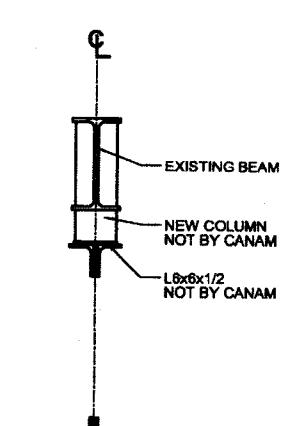
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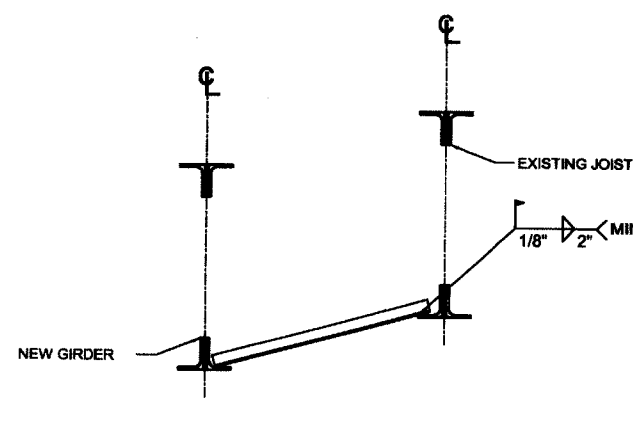
JOIST SECTION 25



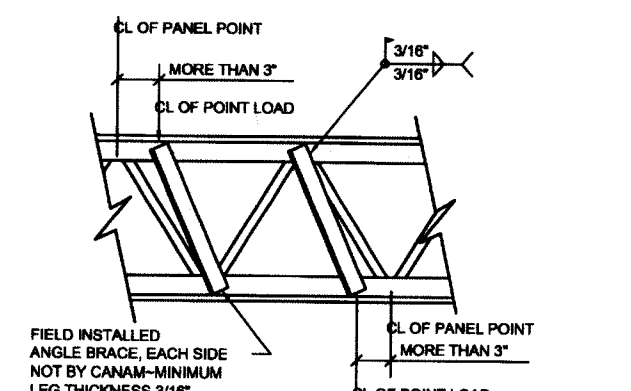
JOIST SECTION 26



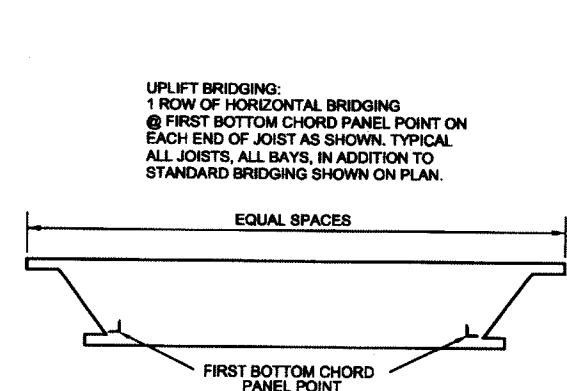
JOIST SECTION 27



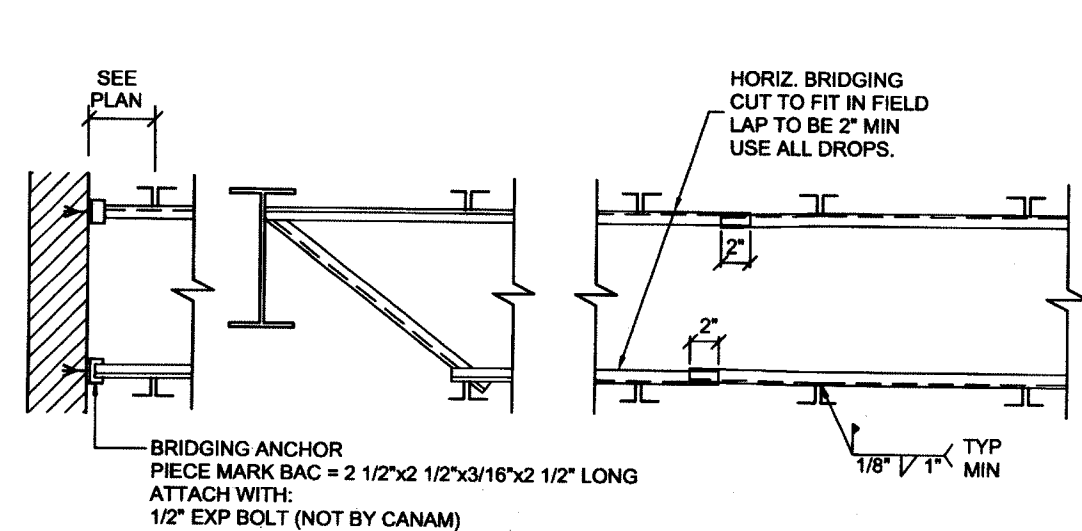
JOIST SECTION 28



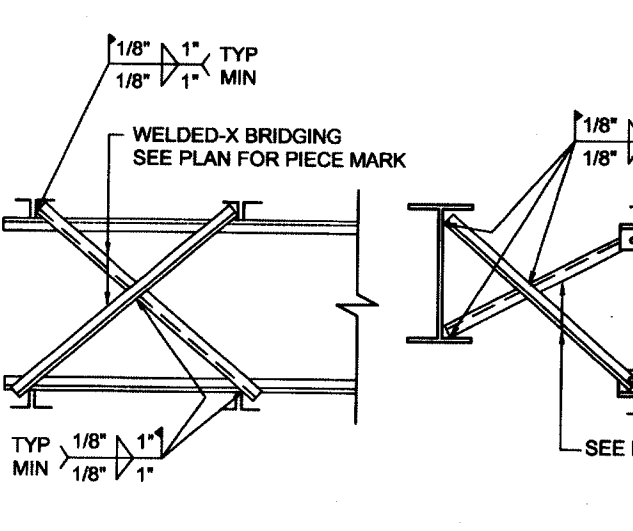
TYPICAL JOIST REINFORCEMENT
AT CONCENTRATED LOADS



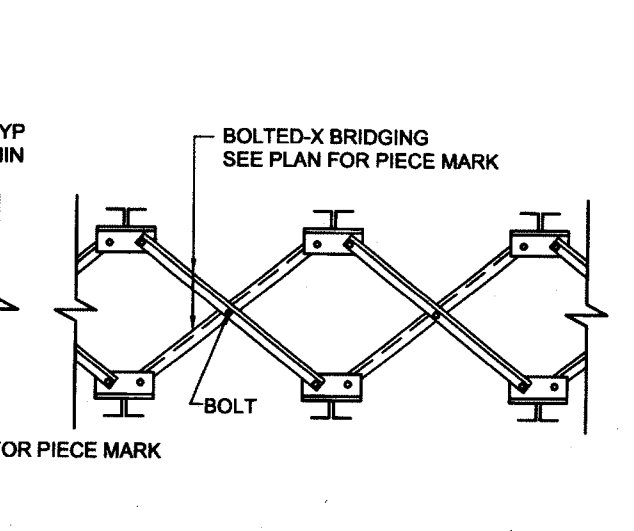
TYP. UPLIFT BRDG. DETAIL



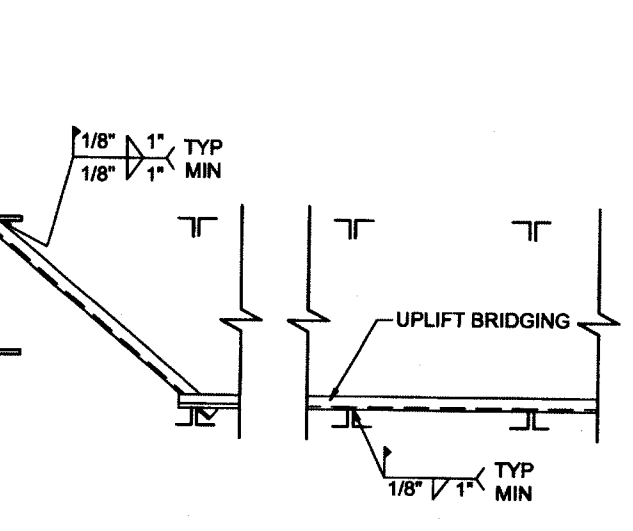
JOIST SECTION 26



JOIST SECTION 27



JOIST SECTION 28



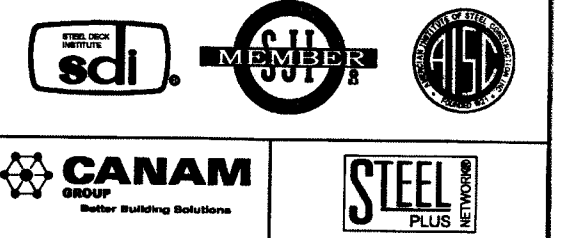
JOIST SECTION 21

- GENERAL NOTES**
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 - ©2008 Canam Steel Corporation. Unauthorized use of this drawing and information provided herein is strictly forbidden.
 - Canam will be furnished on all joists and joist girders (see S.I.I. latest edition for approximate center) unless specifically modified by the contract documents. Canam and deflection must be considered when detailing framing adjacent or framing to joists or girders.
 - The design is based upon load information specifically submitted to Canam Steel Corporation. No special tests or other forces have been provided for unless purchaser has requested them in writing. Such special loads or other forces shall include, without limitation: uplift, concentrated loads from roof top units, axial loads from raker angles, etc.
 - Canam's erection drawings herein were prepared using the Structural portion of the contract drawings as its primary guide using the Architectural drawings (when provided) only for missing information or for clarification. Canam does not accept any responsibility for discrepancies between the Structural and Architectural drawings.
- ERECTION NOTES**
- This drawing is to be used only for the erection of products supplied by Canam Steel Corporation as indicated by an erection mark on the plans and/or sections.
 - Canam Steel Corporation is not responsible for the handling and erection of materials & splices. The design and manufacture of the materials assumes that they are installed in accordance with all applicable laws and regulations. Canam Steel Corporation is not responsible for any misreading or failure to properly erect the materials.
 - Canam Steel Corporation has not examined any field conditions and assumes no responsibility for any conditions. Purchaser must notify Canam Steel Corporation of any discrepancies between the field conditions and Canam Steel Corporation's File and Field Use drawings.
 - Any modification of material supplied by Canam Steel Corporation without prior written consent will automatically release Canam from all liability with respect to such materials.

- ERECTOR'S NOTE:**
- IN BAYS 8' BY 8' OR LESS, THE FOLLOWING APPLIES TO ANY COLUMN JOISTS OR JOISTS NEAR A COLUMN:
 - * THESE JOISTS HAVE NOT BEEN DESIGNED TO SUPPORT AN EMPLOYEE WITHOUT BRIDGING INSTALLED.
 - * THESE JOISTS ARE NOT OSHA JOISTS DESIGNED FOR STABILITY PER SUPPORT R 1926.757(a)(3).
 - * SPECIAL ERECTION METHOD(S) MUST BE INCORPORATED.
 - * EMPLOYERS WILL BE CONSIDERED TO BE IN COMPLIANCE WITH 1926.757(a)(3) IF THEY ERECT THESE JOISTS EITHER BY: (1) INSTALLING BRIDGING OR OTHERWISE STABILIZING THE JOIST PRIOR TO RELEASING THE HOISTING CABLE, OR (2) RELEASING THE CABLE WITHOUT HAVING A WORKER ON THE JOIST.
 - * **DO NOT** ALLOW EMPLOYEES ON THESE JOISTS UNTIL ADEQUATELY STABILIZED.
 - * CONSULT THE OSHA SAFETY STANDARDS FOR SPECIFICS.
 - IN BAYS GREATER THAN 8' BY 8', JOISTS AT OR NEAR COLUMNS SHALL BE ERECTED IN TANDUM (PAIR) WITH AN ADJACENT JOIST. ALL BRIDGING MUST BE INSTALLED BEFORE LIFTING AND THE PAIR OF JOISTS MUST BE SECURED TO THEIR SUPPORT BEFORE RELEASING THE HOISTING LINE. THIS REQUIREMENT MAY BE WAIVED UNDER CERTAIN CONDITIONS. CONSULT THE OSHA SAFETY STANDARDS FOR SPECIFICS.

DESIGN METHOD:
ASD ☒ LRFD ☐ FACTORED ☐

REVISION NO. DATE DESCRIPTION
DATE SENT FOR FIELD USE: 3/16/2008
DATE SENT FOR APPROVAL: 6/18/2007



FOR FIELD USE

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PROJECT NAME: LAWRENCE CENTRAL HS
LOCATION: BEDFORD, IN.
TITLE: SECTIONS
CUSTOMER: STONE CITY IRONWORKS, INC.
ARCHITECT: GIBRALTAR DESIGN
ENGINEER: GIBRALTAR DESIGN
DATE: 5/29/2007
FAM: Washington
DESIGNED BY: BAW
DATE: 7/23/2007
PROJECT: H01735
DRAWING NO.: JE4 of 4