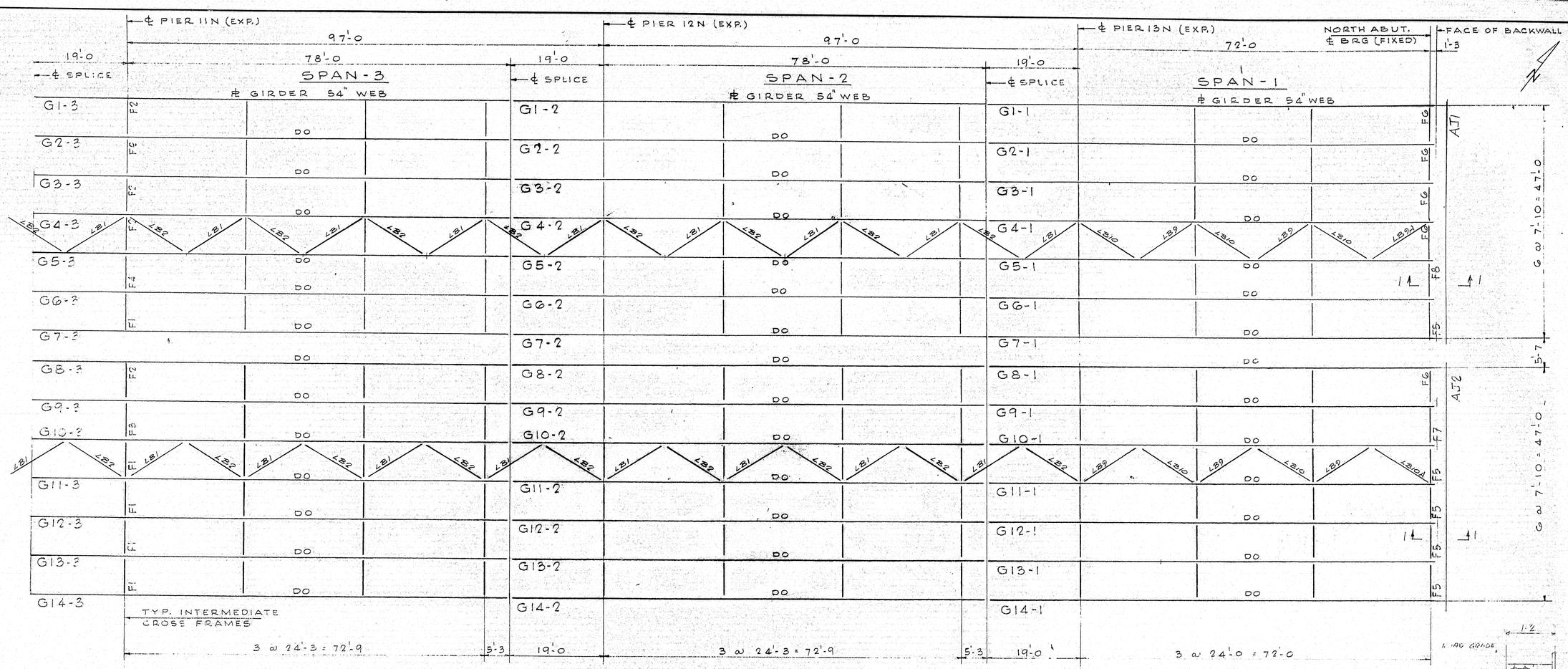



NOTE

LENGTH BETWEEN PIERS TO BE VERIFIED IN FIELD BEFORE EXPANSION SHOES ARE WELDED TO GIRDERS.

APPROVED:- MAY 15 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y
BY D. D. Holdsworth

FRAMING PLAN — SPANS 1, 2 & 3

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-19-69 | 4 |
| DIST. | 5-19-69 | 10 |
| REV. | | |
| CHECKED | E | |
| DRAWN | L.V.G. | |

Bancroft & Martin Inc.
South Portland, Maine 04106

JOB: PISCATAQUA RIVER BRIDGE
Project No. I-95 1 (22) 16
Contract No. 2, Maine Approach
Structural Steel

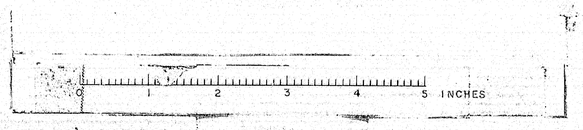
CUSTOMER: CIANCHETTE BROS., INC.

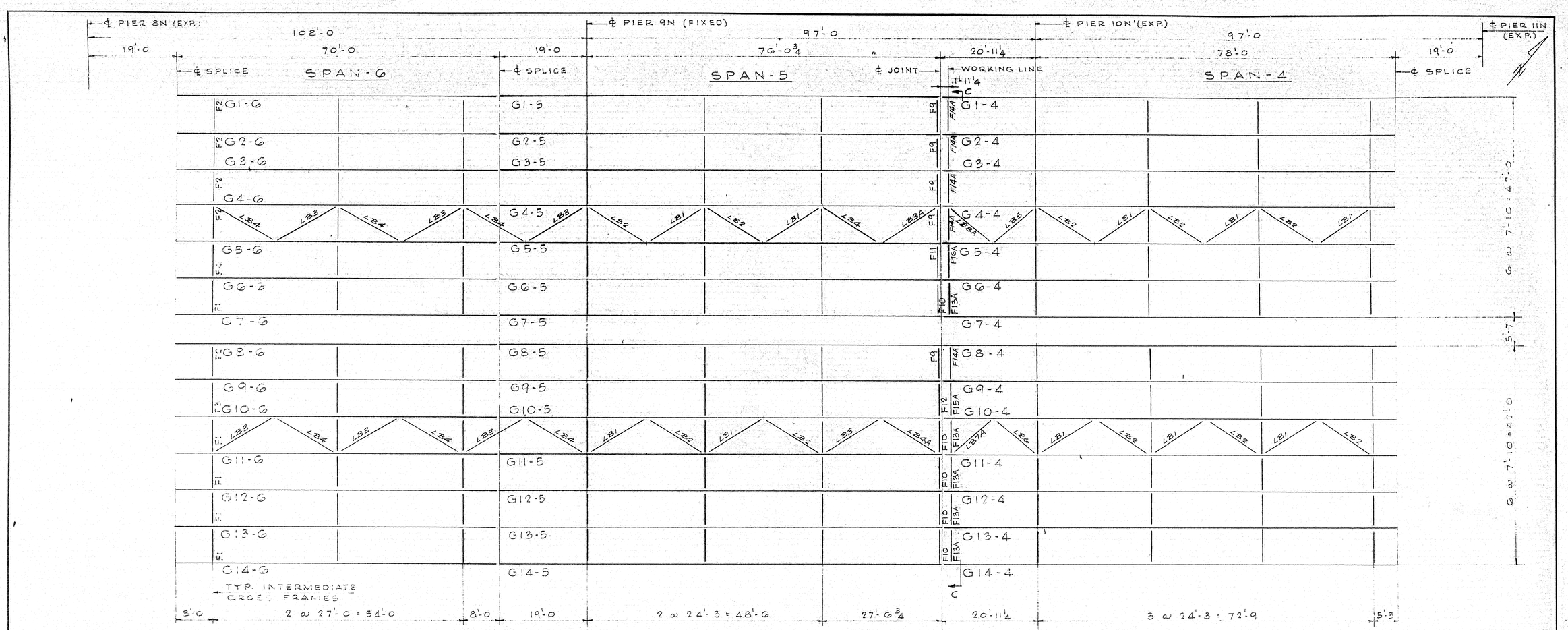
DESIGNER: HARDESTY AND HANOVER

| ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|
| | 69-40 | A1 |

L # 105-192

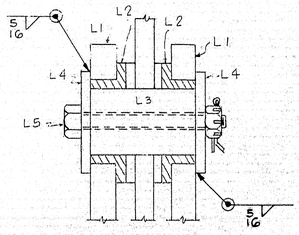
K+E ALBANENE® TRACING PAPER



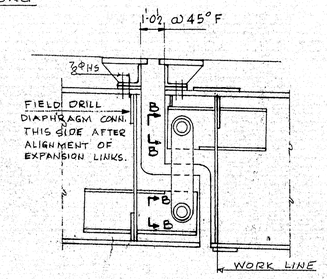


FIXED BRG

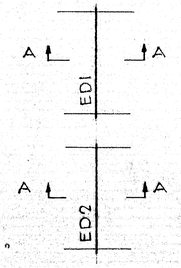
EXP. BRG.




B-B




SECT. A-A




SECT C-C SEE A6

APPROVED:- MAY 15 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y
BY D.D. Hohenadel

| FRAMING PLAN - SPANS 4, 5 & 6 | | | |
|---|---|---|---|
| PRINT DIST. | | | Bancroft & Martin Inc. |
| FAB | 5-19-69 | 4 | South Portland, Maine 04106 |
| DIST. | 5-19-69 | 10 | |
| | | | JOB: PISCATAQUA RIVER BRIDGE Portsmouth, N.H. - Kittery, Maine I 95-1 (22) 16 Contract No. 2, Maine Approach Structural Steel |
| | | | CUSTOMER: CIANCHETTE BROS., INC. |
| | | | DESIGNER: HARDESTY AND HANOVER |
| REV. | | | ORDER NO. / JOB NO. 69-40 / DRAWING NO. A2 |
| CHECKED | E | | |
| DRAWN | L.V.G | | |

105-193

℄ PIER 5N (FIXED) — 97'-0 — ℄ PIER 6N (FIXED) — 97'-0 — ℄ PIER 7N (EXP.) — 97'-0 — ℄ PIER 8N (EXP.)

19'-0 | 78'-0 | 19'-0 | 78'-0 | 20'-11¼ | 76'-0¾ | 19'-0

℄ SPLICE — SPAN-9 — ℄ SPLICE — SPAN-8 — WORKING LINE C → ℄ JOINT 1'-11¼ — SPAN-7 — ℄ SPLICE

G1-9 G2-9 G3-9 G4-9 G5-9 G6-9 G7-9 G8-9 G9-9 G10-9 G11-9 G12-9 G13-9 G14-9

G1-8 G2-8 G3-8 G4-8 G5-8 G6-8 G7-8 G8-8 G9-8 G10-8 G11-8 G12-8 G13-8 G14-8

G1-7 G2-7 G3-7 G4-7 G5-7 G6-7 G7-7 G8-7 G9-7 G10-7 G11-7 G12-7 G13-7 G14-7

L81 L82 L83 L84 L84A L85 L85A

F1 F2 F4 F9 F10 F12 F13 F14 F15 F16

G @ 7'-10 = 47'-0

5'-7

G @ 7'-10 = 47'-0

TYP. INTERMEDIATE CROSS FRAMES

5'-3 | 3 @ 24'-3 = 72'-9 | 19'-0 | 5'-3 | 3 @ 24'-3 = 72'-9 | 20'-11¼ | 27'-6¾ | 2 @ 24'-3 = 48'-6

FB2 FP2 — FIXED BRG

EB3 - G1, G2, G6, G7, G8, G9, G15, G14
EB2 - G3, G4, G5, G10, G11, G12
EB1 FP3 — EXP. BRG (TYP. AT PIERS 7N & 8N)

ED2 ED1 — A A A A

FOR SECT. A-A SEE DWG A2
" " C-C " " A6

APPROVED: MAY 15 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY D. D. Hardesty

# FRAMING PLAN - SPANS 7, 8 & 9

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-19-69 | 4 |
| DIST- | 5-19-69 | 10 |
| REV. | | |
| CHECKED | E | |
| DRAWN | L.V.G | |

Bancroft & Martin Inc.
South Portland, Maine 04106

JOB: PISCATAQUA RIVER BRIDGE
Project No. I 95-1 (22) 16
Contract No. 2 Maine Approach
Structural Steel

CUSTOMER: CIANCHETTE BROS., INC.

DESIGNER: HARDESTY AND HANOVER

| ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|
| | 69-40 | A3 |

K+E ALBANENE® TRACING CLOTH

105-194

0 1 2 3 4 5 INCHES

℄ PIER 2N (FIXED)

℄ PIER 3N (FIXED)

℄ PIER 4N (EXP.)

℄ PIER 5N (FIXED)

19'-0 | 97'-0 | 19'-0 | 97'-0 | 20'-11¼ | 97'-0 | 19'-0

78'-0 | 78'-0 | 76'-0¾

℄ SPLICE | ℄ SPLICE | WORKING LINE | ℄ JOINT 1-1¼ | ℄ SPLICE

C

## SPAN-12 | SPAN-11 | SPAN-10

G1-12 | G1-11 | G1-10

G2-12 | G2-11 | G2-10

G3-12 | G3-11 | G3-10

G4-12 | G4-11 | G4-10

G5-12 | G5-11 | G5-10

G6-12 | G6-11 | G6-10

G7-12 | G7-11 | G7-10

G8-12 | G8-11 | G8-10

G9-12 | G9-11 | G9-10

G10-12 | G10-11 | G10-10

G11-12 | G11-11 | G11-10

G12-12 | G12-11 | G12-10

G13-12 | G13-11 | G13-10

G14-12 | G14-11 | G14-10

G @ 7'-10 = 47'-0

5'-7

G @ 7'-10 = 47'-0

TYP. INTERMEDIATE CROSS FRAMES

5'-3 | 3 @ 24'-3 = 72'-9 | 19'-0 | 5'-3 | 3 @ 24'-3 = 72'-9 | 20'-11¼ | 27'-6¾ | 2 @ 24'-3 = 48'-6

FB2 — FP2

FIXED BRG

(TYP. AT PIERS 3N & 5N)

EB1 — FP3

EB3 - G1, G2, G6, G7, G8, G9, G13, G14

EB2 - G3, G4, G5, G10, G11, G12

EXP. BRG

ED2

ED1

A — A

FOR SECT. A-A SEE DWG A2

" " C-C " " A6

APPROVED:- MAY 15 1969

HARDESTY & HANOVER

CONSULTING ENGINEERS

101 PARK AVE. NEW YORK 17, N.Y.

BY D. D. Goldman

# FRAMING PLAN — SPANS 10, 11 & 12

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-19-69 | 4 |
| DIST | 5-19-69 | 10 |
| REV. | | |
| CHECKED | E | |
| DRAWN | L.V.G | |

Bancroft & Martin Inc.
South Portland, Maine 04106

JOB: PISCATAQUA RIVER BRIDGE
Project No. 1 (22) 16
Contract No. Maine Approach
Structural Steel

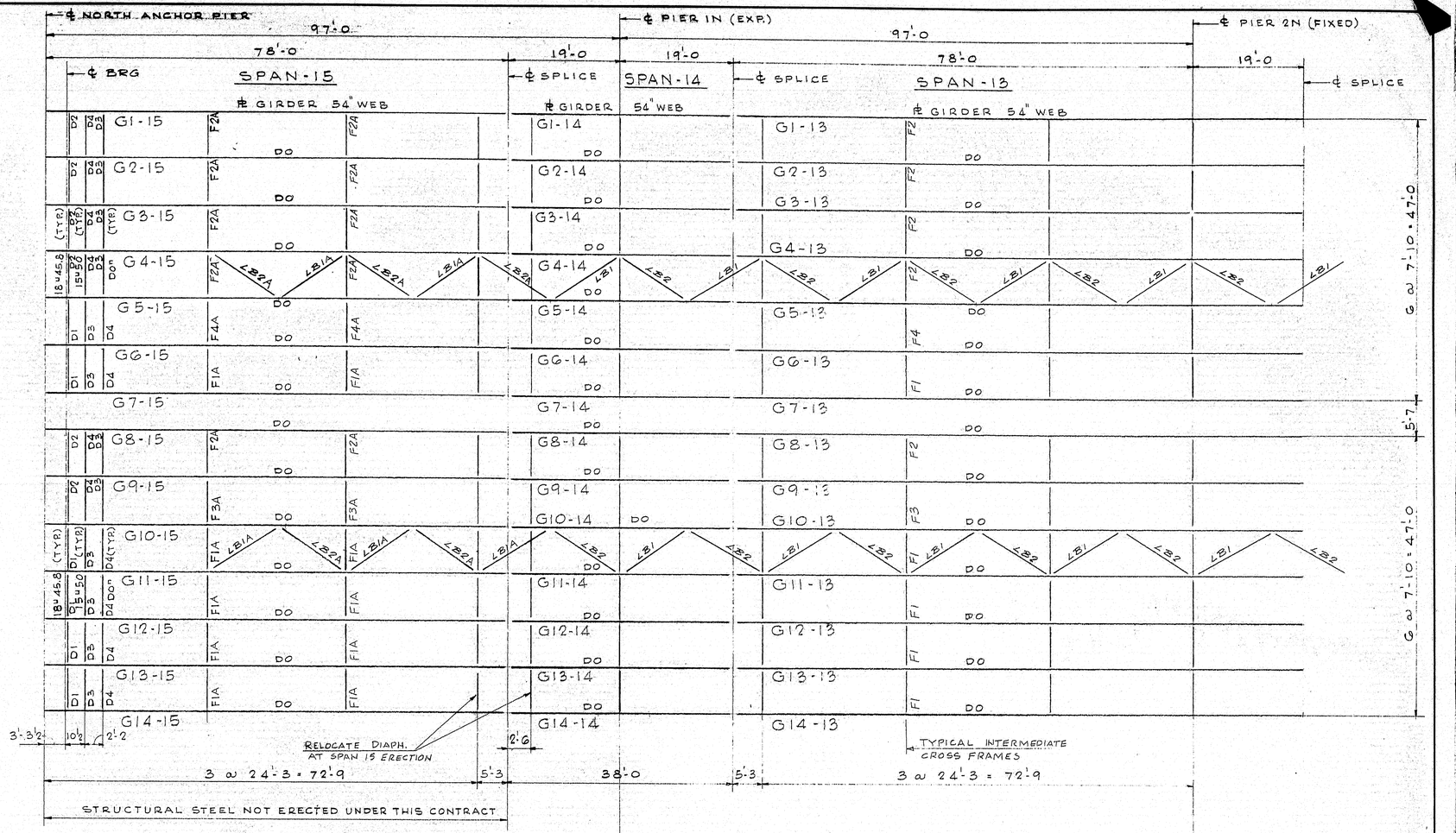
CUSTOMER: CIANCHETTE BROS. INC.

DESIGNER: HARDESTY AND HANOVER

| ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|
| | 69-40 | A4 |

105-195

0 1 2 3 4 5 INCHES




APPROVED: MAY 19 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y
BY D. D. Holderman

# FRAMING PLAN — SPANS 13 & 14

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-20-69 | 4 |
| DIST | 5-20-69 | 10 |
| REV. | | |
| CHECKED | E | |
| DRAWN | LVG | |

Bancroft & Martin Inc.
South Portland, Maine 04106

JOB: PISCATAQUA RIVER BRIDGE
Project No. I-95-1 (22)-16
Contract No. 2, Maine Approach
Structural Steel

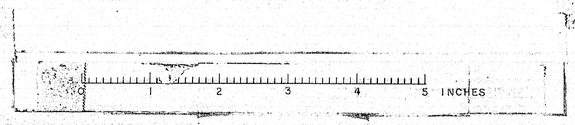
CUSTOMER: CIANCHETTE BROS., INC.

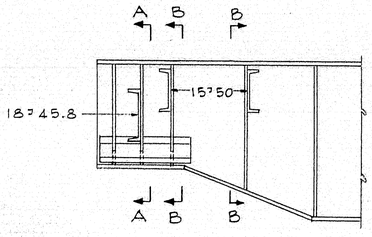
DESIGNER: HARDESTY AND HANOVER

| ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|
| | 69-40 | A5 |

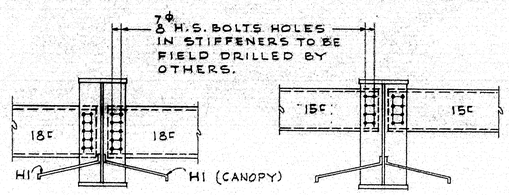
105-196

K&E ALBANENE MADE IN U.S.A.



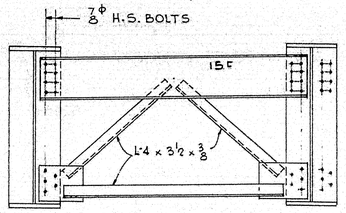



DETAIL AT RIVER BRIDGE

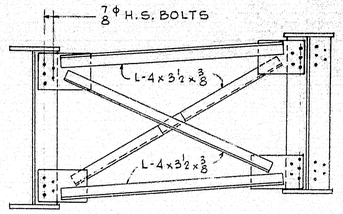



A - A

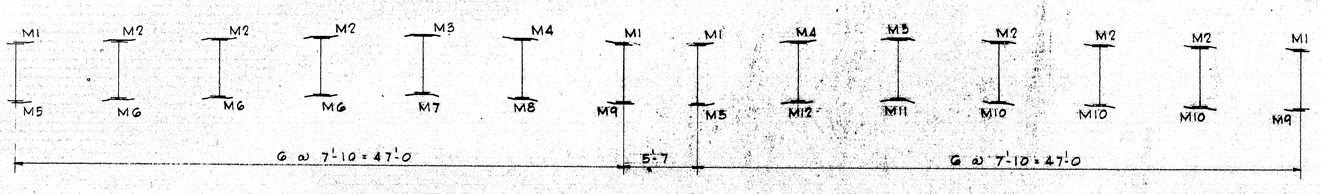
B - B




TYP. DIAPHRAGM AT ABUTMENT




TYP. INTERIOR DIAPHRAGM




SECT. C-C

(MOMENT RE. LOCATION AT EXPANSION JT. ...)

APPROVED:- MAY 19 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y
BY D. D. Holderman

DIAPHRAGM DETAILS

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-20-69 | 4 |
| DIST | 5-20-69 | 10 |

Bancroft & Martin Inc.
South Portland, Maine 04106

JOB: PISCATAQUA RIVER BRIDGE
Project No. I-95-1 (22) 16
Contract No. 2, Meine Approach
Structural Steel

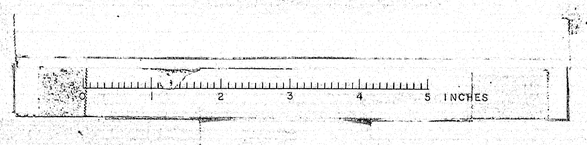
CUSTOMER: CIANCHETTE BROS. INC.

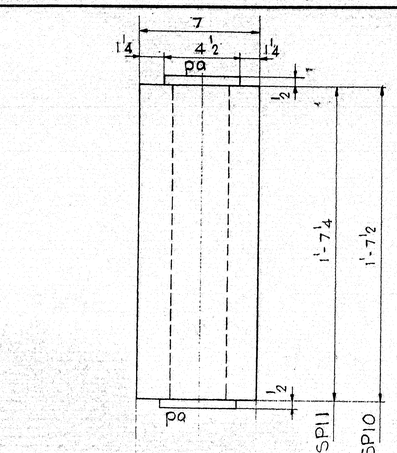
DESIGNER: HARDESTY & HANOVER

| REV. | | | ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|---|---|---|
| CHECKED | E | | | 69-40 | A6 |
| DRAWN | LVG | | | | |

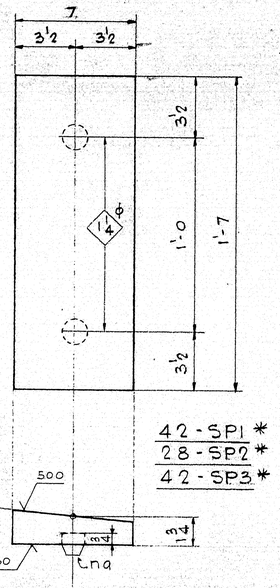
105-197

K-E ALBANENE® TRACING PAPER

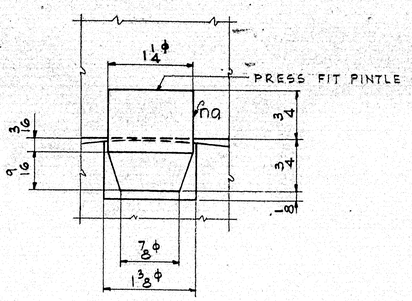




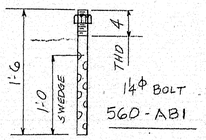

8 - SP10
6 - SP11

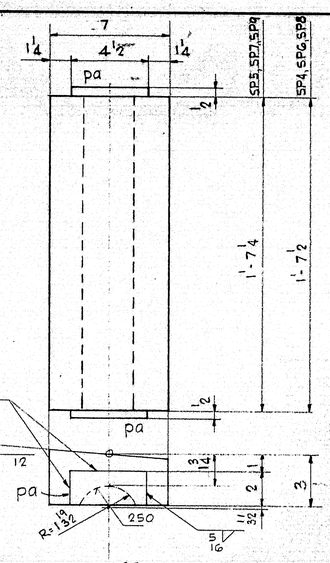



42 - SP1 *
28 - SP2 *
42 - SP3 *



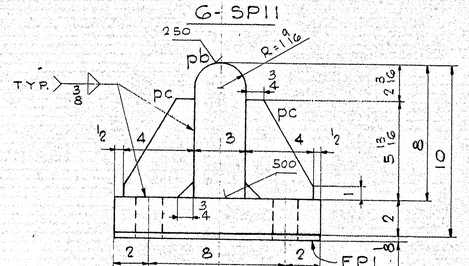

PINTLE DET.
448 - na

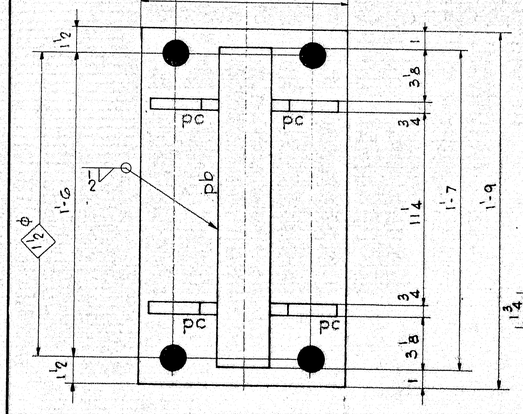


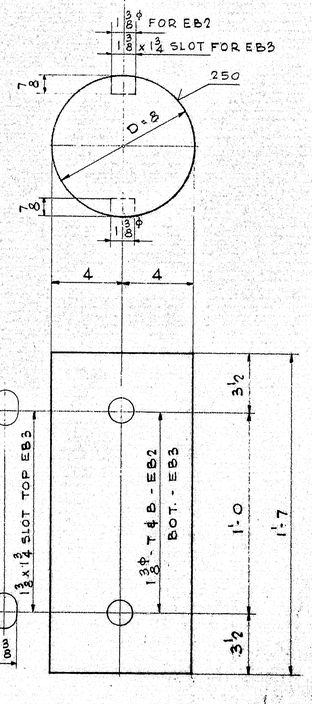

24 - SP4
18 - SP5
8 - SP6
6 - SP7
8 - SP8
6 - SP9

SP8, SP9 - 3/8
SP6, SP7 - 7/16
SP4, SP5 - ½



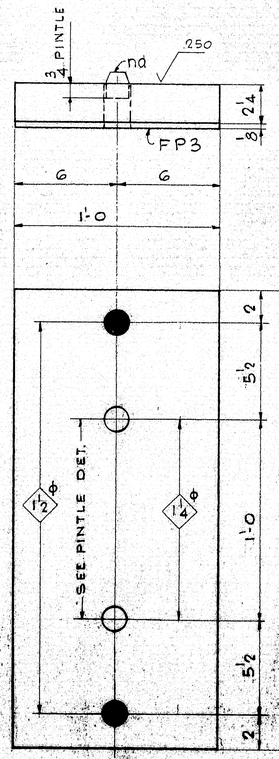




14 - FB1
14 - FP1

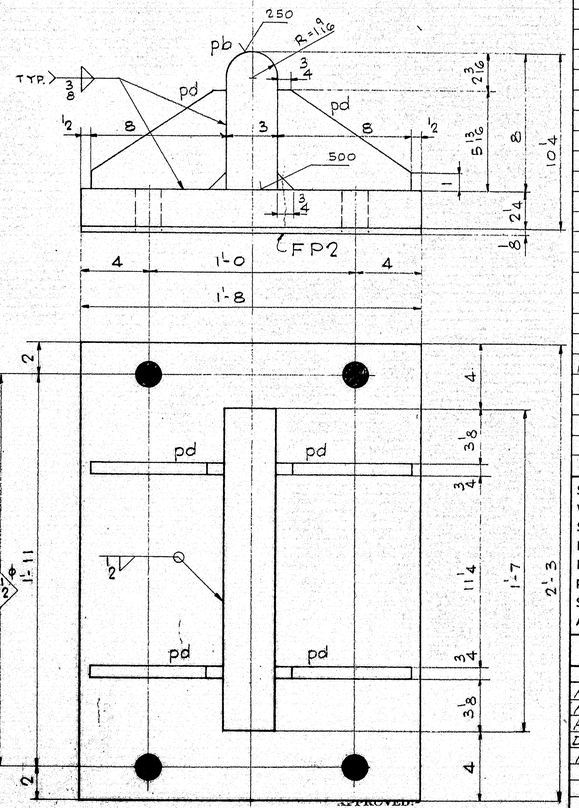



48 - EB2 *
64 - EB3 *

△1 * DENOTES 2 COATS OF PAINT




112 - EB1 *
112 - FP3 *




70 - FB2
70 - FP2

APPROVED:
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
FEB 6 1970
BY

| SHIP | | BILL OF MATERIAL | | JOB NO. 69-40 | | DWG. NO. B1 | | |
|---|---|---|---|---|---|---|---|---|
| MARK | NO. | MARK | SHAPE | LENGTH | WT. | ITEM NO. | | REMARKS |
| SP1 | 42 | | PL - 7 x 1⅞ | 1 7 | | | | A 517 |
| SP2 | 28 | | DO | 1 7 | | | | DO |
| SP3 | 42 | | DO | 1 7 | | | | DO |
| | 224 | na | 1¼φ | 0 1½ | | | | A 237 CLASS E |
| SP4 | 24 | | PL - 7 x 3⅛ | 1 7½ | | | | |
| SP5 | 18 | | DO | 1 7¼ | | | | |
| SP6 | 8 | | DO | 1 7½ | | | | |
| SP7 | 6 | | DO | 1 7¼ | | | | |
| SP8 | 8 | | DO | 1 7½ | | | | |
| SP9 | 6 | | DO | 1 7¼ | | | | |
| SP10 | 8 | | DO | 1 7½ | | | | |
| SP11 | 6 | | DO | 1 7¼ | | | | |
| | 168 | pa | PL - 2 x ½ | 0 4½ | | | | |
| EB1 | 112 | | PL - 12 x 2¼ | 2 3 | | | | A 517 |
| | 224 | na | 1¼φ | | | | | |
| EB2 | 48 | | 8φ | 1 7 | | | | A 237 CLASS E |
| EB3 | 64 | | DO | 1 7 | | | | DO |
| FB1 | 14 | | PL - 12 x 2 | 1 9 | | | | |
| | 14 | pb | PL - 8 x 3 | 1 7 | | | | |
| | 56 | pc | PL - 4 x ¾ | 0 5 13/16 | | | | |
| FB2 | 70 | | PL - 20 x 2¼ | 2 3 | | | | |
| | 70 | pb | PL 8 x 3 | 1 7 | | | | |
| | 280 | pd | PL - 5 13/16 x ¾ | 0 8 | | | | |
| FP1 | 14 | | 12 x ⅛ | 1 9 | | | | |
| FP2 | 70 | | 20 x ⅛ | 2 3 | | | | |
| FP3 | 112 | | 12 x ⅛ | 2 3 | | | | |
| AB1 | 560 | | 1¼φ | 1 6 | | | | |
| | 1120 | SHOP | 1¼" φ HEX NUTS | | | | | |
| FIELD | 560 | | 1¼" φ WASHERS | | | | | |

△2 PREFORMED PAD DO DO Ref #2987

STEEL: ASTM. A36 EXCEPT AS NOTED IN B.M.
WELDING ELECTRODE E70 - SEE WELDING PROCEDURE
SHOP CONN: WELDED
FIELD CONN: WELDED
HOLES: AS NOTED
PAINT: ONE COAT RED LEAD PER MAINE SPECS
SPECIAL CLEANING: BLAST CLEAN
APPROVED: 2-24-69

SPECIAL PROVISIONS FOR MAGNETIC PARTICLE AND EXPOSED MACHINED SURFACES

BEARING DETAILS

| PRINT DIST. | | |
|---|---|---|
| APP. | 2-14-69 | 4 |
| F.A. | 3-11-69 | 2 SEP. |
| FAB | 3-11-69 | 4 |
| DIST | 5-19-69 | 10 |
| F.A. | 7-3-69 | 2 MYLAR |

Bancroft & Martin Inc.
South Portland, Maine 04106

JOB: PISCATAQUA RIVER BRIDGE
Project No. I-95-1 (22) 16
Contract No. 2, Maine Approach
Structural Steel

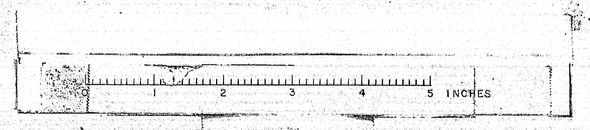
CUSTOMER: TIANCHETTE BROS., INC.

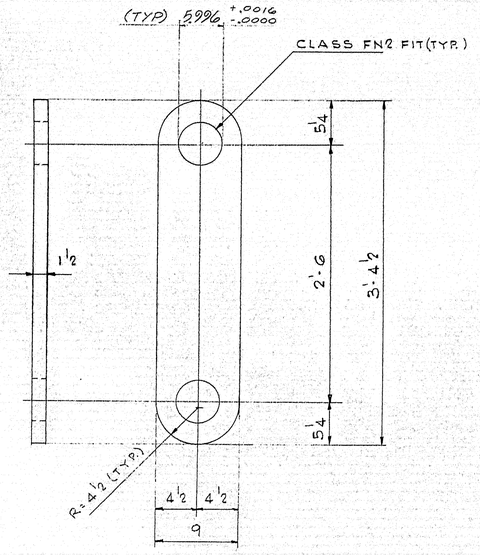
DESIGNER: HARDESTY AND HANOVER

| REV. | J.P.F. | 12-22-69 |
|---|---|---|
| REV. | J.P.F. | 7-2-69 |
| CHECKED | | |
| DRAWN | L.V.G. | |

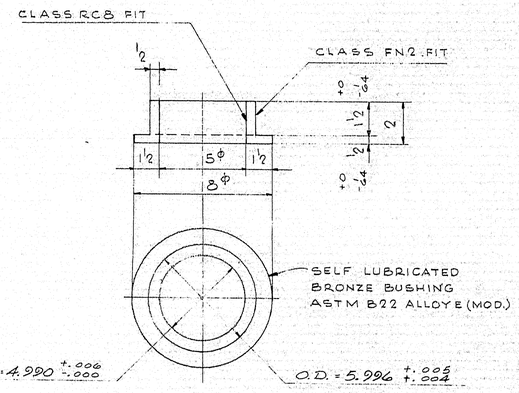
ORDER NO. | JOB NO. 69-40 | DRAWING NO. B1

105-198

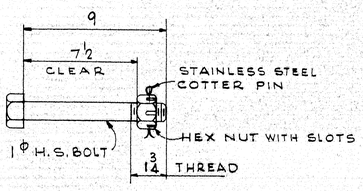




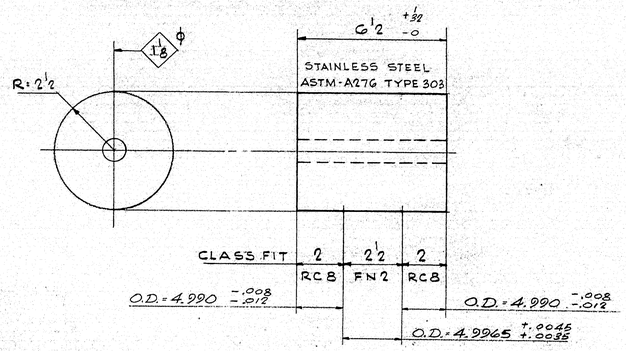

84 - L1 (DRILL IN PAIRS)
MATCH MARK



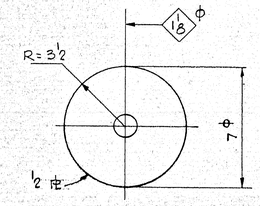

168-L2
PRESS FIT TO L1



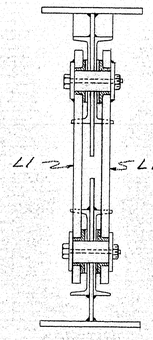

84-L5
GALVANIZE BOLT & NUT



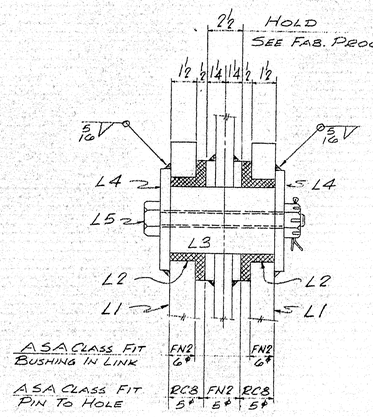

84-L3
PRESS FIT TO GIRDERS




168-L4
SHOP WELD TO L1




LINK ASSEMBLY




PIN ASSEMBLY

## FABRICATION PROCEDURE

1. CUSTOM GRIND 8Φ R TO NECESSARY THICKNESS TO ASSURE CONTROL OF 2½" TOTAL THICKNESS OF GIRDER WEB.
2. HOLE IN GIRDER WEB IS TO BE ROUGH CUT. THEN, WITH GIRDER IN A FLAT POSITION AND LEVEL IN ALL DIRECTIONS, COMPLETE DRILLING OF HOLE WITH RADIAL DRILL HELD IN A PLUMB POSITION. HOLE IS TO BE DRILLED AFTER ALL WELDING IN THE PIN HOLE AREA IS COMPLETE.

APPROVED: MAY 19 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY D.D. Hollenbeck

| SHIP MARK | NO. | MARK | SHAPE | LENGTH | | WT. | ITEM NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|
| L1 | 84 | | ℄ - 9 x 1'2 | 3 | 4½ | | 50 | (SHIP IN PAIRS) |
| L2 | 168 | | 8Φ BUSHING | 0 | 2 | | | SELF LUB. BRONZE B22 ALLOYE PRESS FIT TO L1 |
| L3 | 84 | | 5Φ S.S. PIN | 0 | 6½ | | 53 | A276 TYPE 303 PRESS FIT TO GIRDERS |
| L4 | 168 | | ℄ - 7Φ x ½ | | | | 52 | A441 SHOP WELD TO L1 |
| L5 | 84 | | 1Φ H.S. BOLT (GALVANIZE) | 0 | 9 | | | W/S.S. COTTER PIN AND HEX NUT |

BILL OF MATERIAL — JOB NO. 69-40 — DWG. NO. B2

STEEL: ASTM. SEE BILL OF MATERIAL
WELDING ELECTRODE E70
SHOP CONN: WELDED
FIELD CONN:
HOLES: AS NOTED
PAINT: ZINC RICH EPOXY L1, L4
SPECIAL CLEANING:
APPROVED:

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-20-69 | 4 |
| DIST. | 5-20-69 | 10 |

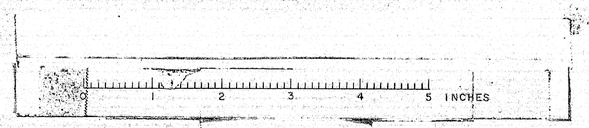
| REV. | | |
|---|---|---|
| CHECKED | dcmB | 3/7/69 |
| DRAWN | LVG | |

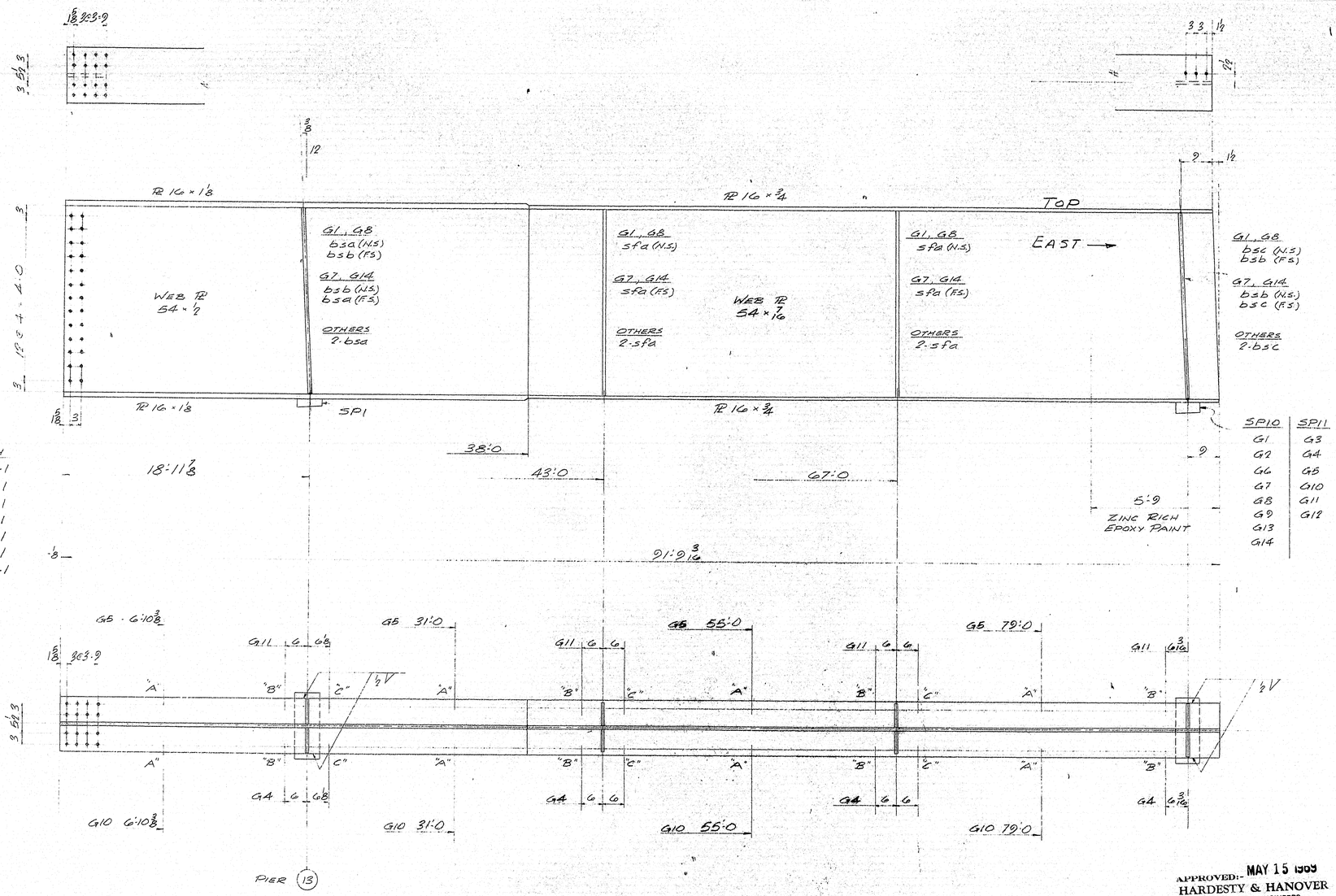
Bancroft & Martin Inc.
South Portland, Maine 04106

JOB: PISCATAQUA RIVER BRIDGE
Portsmouth, N.H. - Maine Approach
Structural Steel

CUSTOMER: CIANCHETTE BROS. INC.
DESIGNER: HARDESTY & HANOVER
ORDER NO. | JOB NO. 69-40 | DRAWING NO. B2

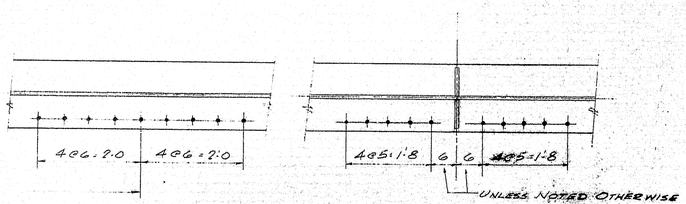
105-199






| ONE EACH | |
|---|---|
| G1-1 | G2-1 |
| G3-1 | G4-1 |
| G5-1 | G6-1 |
| G7-1 | G8-1 |
| G9-1 | G10-1 |
| G11-1 | G12-1 |
| G13-1 | G14-1 |

| SP10 | SP11 |
|---|---|
| G1 | G3 |
| G2 | G4 |
| G6 | G5 |
| G7 | G10 |
| G8 | G11 |
| G9 | G12 |
| G13 | |
| G14 | |




BOTT. FLG HOLE PATTERNS

**NOTE**

LENGTH BETWEEN PIERS TO BE VERIFIED IN FIELD BEFORE EXPANSION SHOES ARE WELDED TO GIRDER.

HOLES ARE FOR HIGH TENSILE BOLTS They are to be free from burrs and shall not be painted on any surface within 5" of such open holes.

AREAS PAINTED WITH ZINC RICH EPOXY PAINT ARE TO BE FULLY PAINTED.

APPROVED:- MAY 15 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y
BY D. D. Hardesty

**SHIP** | **BILL OF MATERIAL** | JOB NO. 69-40 | DWG. NO. C1

| MARK | NO. | MARK | SHAPE | LENGTH | | WT. | ITEM NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|
| G1-1 | 1 | | | | | | | |
| G2-1 | 1 | | | | | | | |
| G3-1 | 1 | | | | | | | |
| G4-1 | 1 | | | | | | | |
| G5-1 | 1 | | | | | | | |
| G6-1 | 1 | | | | | | | |
| G7-1 | 1 | | | | | | | |
| G8-1 | 1 | | | | | | | |
| G9-1 | 1 | | | | | | | |
| G10-1 | 1 | | | | | | | |
| G11-1 | 1 | | | | | | | |
| G12-1 | 1 | | | | | | | |
| G13-1 | 1 | | | | | | | |
| G14-1 | 1 | | | | | | | |
| | | | | | | | | |
| | 14 | lf | PL 16 × 1 1/8 | 38 | 0 | | 3 | |
| | 14 | lf | PL 16 × 3/4 | 53 | 7 11/16 | | 1 | |
| | 14 | bf | do | 53 | 9 3/16 | | 1 | |
| | 14 | bf | PL 16 × 1 1/8 | 38 | 0 | | 3 | |
| | | | | | | | | |
| | 14 | WP | PL 54 × 1/2 | 38 | 0 | | 8 | |
| | 14 | WP | PL 54 × 7/16 | 53 | 9 3/16 | | 7 | |
| | | | | | | | | |
| | 14 | SP1 | SSS SM "B1 | | | | | |
| | 8 | SP10 | " " | | | | | |
| | 6 | SP11 | " " | | | | | |
| | | | | | | | | |
| | 24 | bsa | PL 7 1/2 × 3/4 | 4 | 6 | | 11 | (+1/4) |
| | 8 | bsb | do | | | | 11 | (+1/4) |
| | 24 | bsc | do | 4 | 6 | | 11 | (+1/4) |
| | | | | | | | | |
| | 48 | sfa | PL 7 × 1/2 | 4 | 6 | | 12 | |
| | 28 | psa | PL 13 × 3/8 | 4 | 3 1/2 | | 13 | |
| | 28 | psb | PL 15 × 1/2 | 2 | 1 | | 14 | |
| | 56 | psc | PL 6 1/2 × 1/2 | 2 | 1 | | 15 | |

STEEL: ASTM. A-36
WELDING ELECTRODE E70
SHOP CONN: WELDED
FIELD CONN: 7/8" H.S. A-325 BOLTS
HOLES: 15/16"
PAINT: ONE COAT RED LEAD PER MAINE SPECS.
SPECIAL CLEANING: BLAST CLEAN
APPROVED:

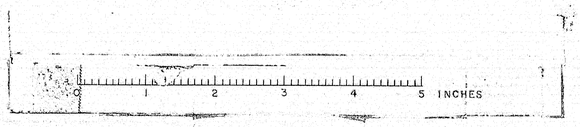
GIRDERS SPAN 1

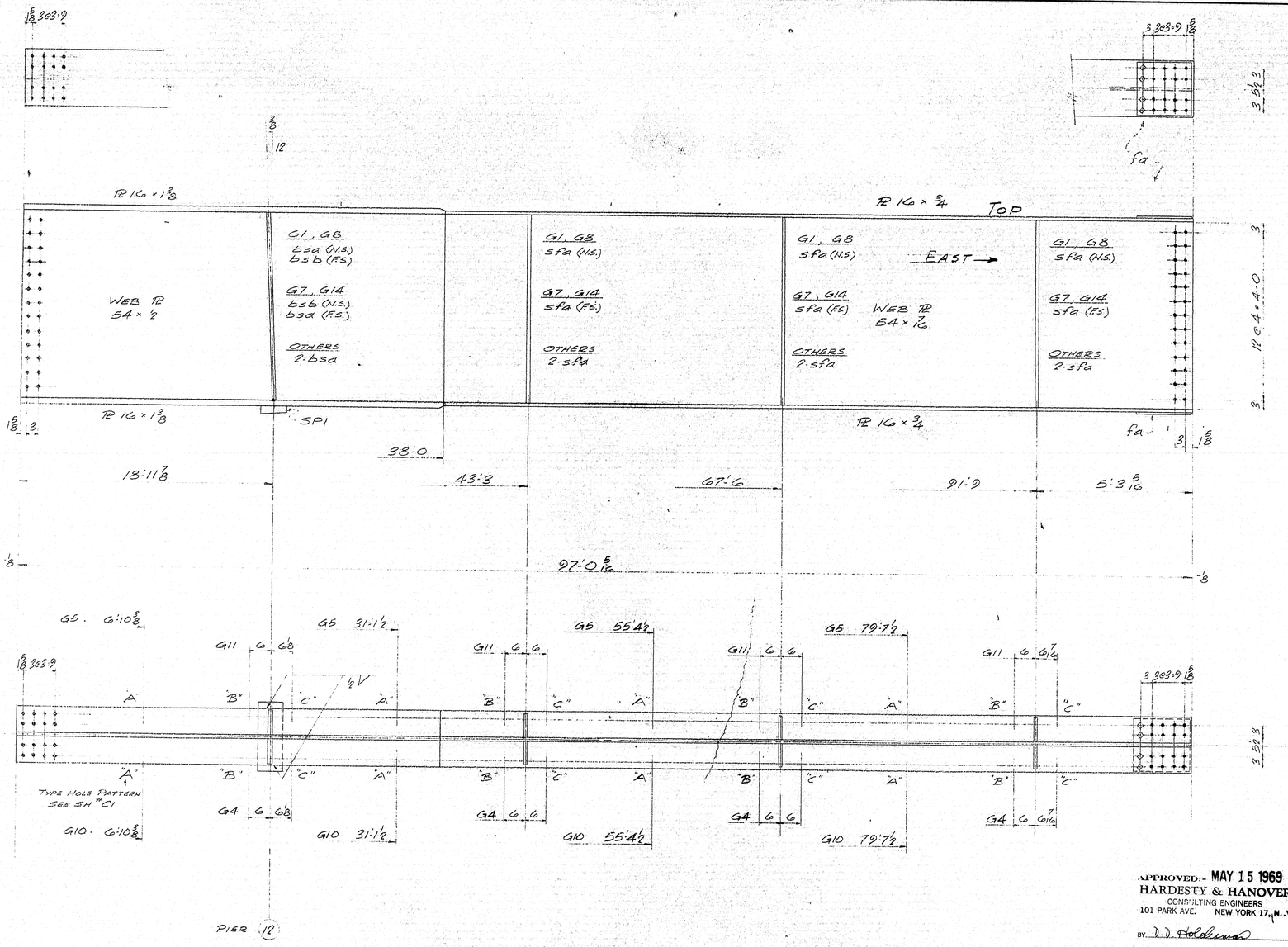
| PRINT DIST. | | |
|---|---|---|
| FAB | 5-19-69 | 4 |
| DIST | 5-19-69 | 10 |
| REV. | | |
| CHECKED | DMB | 3/17/69 |
| DRAWN | JWF | |

Bancroft & Martin Inc.
South Portland, Maine 04106
JOB: PISCATAQUA RIVER BRIDGE
CUSTOMER: CIANCHETTE BROS. INC.
DESIGNER: HARDESTY & HANOVER

| ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|
| | 69-40 | C1 |

105-200






ONE EACH

| | |
|---|---|
| G1-2 | G2-2 |
| G3-2 | G4-2 |
| G5-2 | G6-2 |
| G7-2 | G8-2 |
| G9-2 | G10-2 |
| G11-2 | G12-2 |
| G13-2 | G14-2 |

APPROVED:- MAY 15 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY D.D. Holahmad

HOLES ARE FOR HIGH TENSILE BOLTS They are to be free from burrs and shall not be painted on any surface within 5" of such open holes.

| SHIP MARK | NO. | MARK | SHAPE | LENGTH | | WT. | ITEM NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|
| G1-2 | 1 | | | | | | | |
| G2-2 | 1 | | | | | | | |
| G3-2 | 1 | | | | | | | |
| G4-2 | 1 | | | | | | | |
| G5-2 | 1 | | | | | | | |
| G6-2 | 1 | | | | | | | |
| G7-2 | 1 | | | | | | | |
| G8-2 | 1 | | | | | | | |
| G9-2 | 1 | | | | | | | |
| G10-2 | 1 | | | | | | | |
| G11-2 | 1 | | | | | | | |
| G12-2 | 1 | | | | | | | |
| G13-2 | 1 | | | | | | | |
| G14-2 | 1 | | | | | | | |
| | 14 | tf | PL 16 × 1 3/8 | 38 | 0 | | 4 | |
| | 14 | bf | do | 38 | 0 | | 4 | |
| | 14 | tf | PL 16 × 3/4 | 59 | 0 5/16 | | 9 | |
| | 14 | bf | do | 59 | 0 5/16 | | 2 | |
| | 14 | WP | PL 54 × 1/2 | 38 | 0 | | 8 | |
| | 14 | WP | PL 54 × 7/16 | 59 | 0 5/16 | | 9 | |
| | 14 | SP1 | SEE SH # B1 | | | | | |
| | 24 | bsa | PL 7 1/2 × 3/4 | 4 | 6 | | 11 | (+4) |
| | 4 | bsb | do | 4 | 6 | | 11 | (+4) |
| | 72 | sfa | PL 7 × 1/2 | 4 | 6 | | 12 | |
| | 28 | fa | PL 15 × 3/8 | 1 | 3 | | 68 | |
| | 28 | psa | PL 13 × 3/8 | 4 | 3 1/2 | | 13 | |
| | 28 | psb | PL 15 × 1/2 | 2 | 1 | | 14 | |
| | 56 | psc | PL 6 1/2 × 1/2 | 2 | 1 | | 15 | |

STEEL: ASTM. A-36
WELDING ELECTRODE E70
SHOP CONN: WELDED
FIELD CONN: 7/8" H.S. BOLTS A-325
HOLES: 15/16"
PAINT: ONE COAT RED LEAD PER MAINE SPECS
SPECIAL CLEANING: BLAST CLEAN
APPROVED:

GIRDERS SPAN 2

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-19-69 | 4 |
| DIST | 5-19-69 | 10 |

Bancroft & Martin Inc.
South Portland, Maine 04106

JOB: PIER

CUSTOMER: CIANCHETTE BROS INC.
DESIGNER: HARDESTY & HANOVER

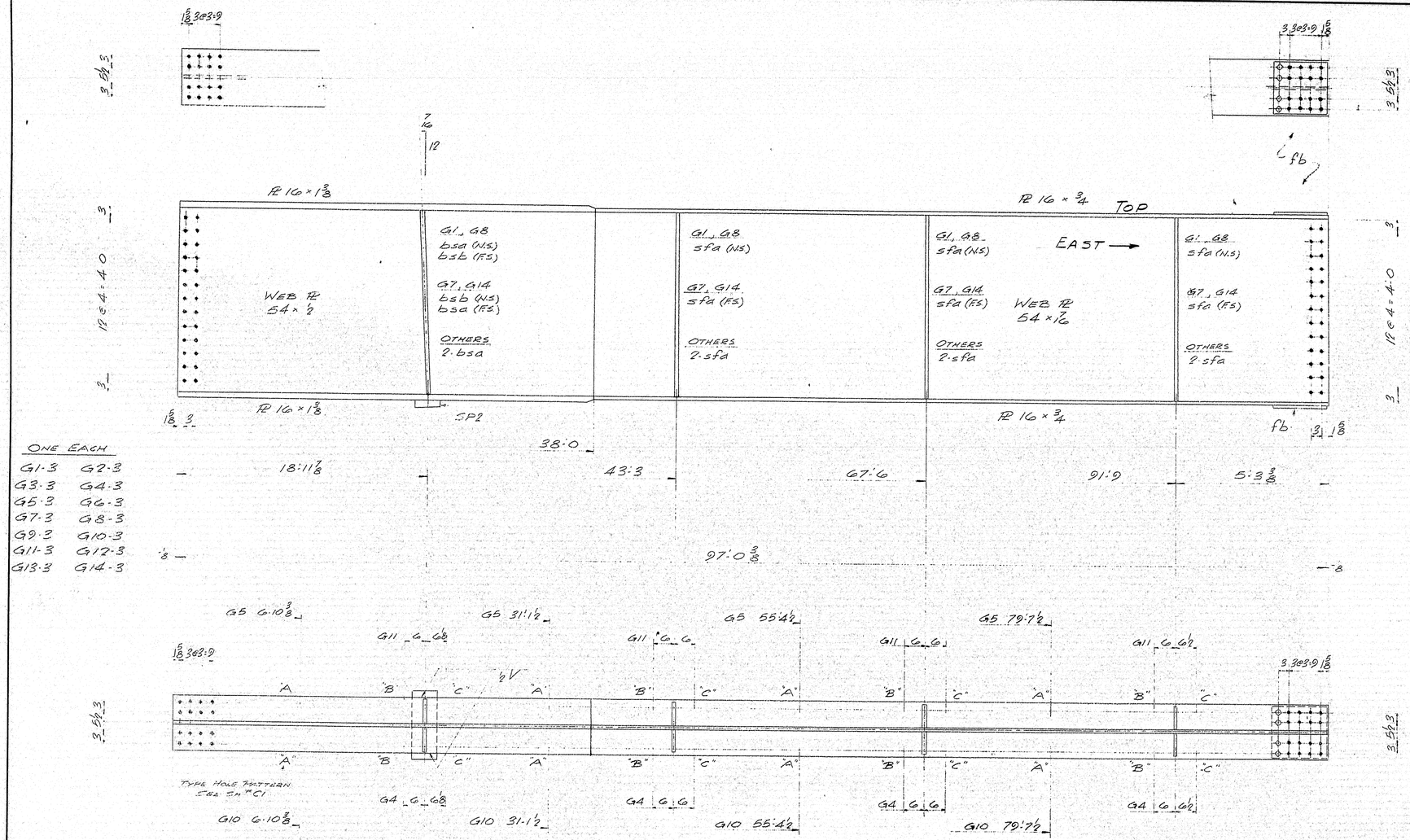
| REV. | | |
|---|---|---|
| CHECKED | DMB | 3/17/69 |
| DRAWN | JWF | |

| ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|
| | 69-40 | C2 |

K+E ALBANY,NY. MADE IN THE USA

0 1 2 3 4 5 INCHES

1661.




ONE EACH

| | |
|---|---|
| G1-3 | G2-3 |
| G3-3 | G4-3 |
| G5-3 | G6-3 |
| G7-3 | G8-3 |
| G9-3 | G10-3 |
| G11-3 | G12-3 |
| G13-3 | G14-3 |

PIER 11

APPROVED:- MAY 15 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y
BY D. D. Holderman

HOLES ARE FOR HIGH TENSILE BOLTS They are to be free from burrs and shall not be painted on the surface within 5" of such holes.

| SHIP | BILL OF MATERIAL | | | JOB NO. 69-40 | | | DWG. NO. C3 |
|---|---|---|---|---|---|---|---|
| MARK | NO. | MARK | SHAPE | LENGTH | | WT. | ITEM NO | REMARKS |
| G1-3 | 1 | | | | | | | |
| G2-3 | 1 | | | | | | | |
| G3-3 | 1 | | | | | | | |
| G4-3 | 1 | | | | | | | |
| G5-3 | 1 | | | | | | | |
| G6-3 | 1 | | | | | | | |
| G7-3 | 1 | | | | | | | |
| G8-3 | 1 | | | | | | | |
| G9-3 | 1 | | | | | | | |
| G10-3 | 1 | | | | | | | |
| G11-3 | 1 | | | | | | | |
| G12-3 | 1 | | | | | | | |
| G13-3 | 1 | | | | | | | |
| G14-3 | 1 | | | | | | | |
| | 14 | bf | PL 16 × 1⅜ | 38 | 0 | | 4 | |
| | 14 | bf | do | 38 | 0 | | 4 | |
| | 14 | bf | PL 16 × ¾ | 59 | 0 3/8 | | 4 | |
| | 14 | bf | do | 59 | 0 3/8 | | 4 | |
| | 14 | WP | PL 54 × ½ | 38 | 0 | | 8 | |
| | 14 | WP | PL 54 × 7/16 | 59 | 0 3/8 | | 9 | |
| | 14 | SP2 | SEE SH "B1" | | | | | |
| | 24 | bsa | PL 7½ × ¾ | 4 | 6 | | 11 | (+4) |
| | 4 | bsb | do | 4 | 6 | | 11 | (+4) |
| | 72 | sfa | PL 7 × ½ | 4 | 6 | | 12 | |
| | 28 | fb | PL 15 × ⅝ | " | 3 | | 69 | |
| | 28 | psa | PL 13 × ⅜ | 4 | 3½ | | 13 | |
| | 28 | psb | PL 15 × ½ | 2 | 1 | | 14 | |
| | 56 | psc | PL 6½ × ½ | 2 | 1 | | 15 | |

STEEL: ASTM. A-36
WELDING ELECTRODE E70
SHOP CONN: WELDED
FIELD CONN: ⅞" HS BOLTS A-325
HOLES: 15/16"
PAINT: ONE COAT RED LEAD PER MAINE SPECS
SPECIAL CLEANING: BLAST CLEAN
APPROVED:

GIRDERS SPAN 3

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-19-69 | 4 |
| DIST | 5-19-69 | 10 |

| REV. | | |
|---|---|---|
| CHECKED | DDH2 | 3-17-69 |
| DRAWN | JWF | |

Bancroft & Martin Inc.
South Portland, Maine 04106

JOB:

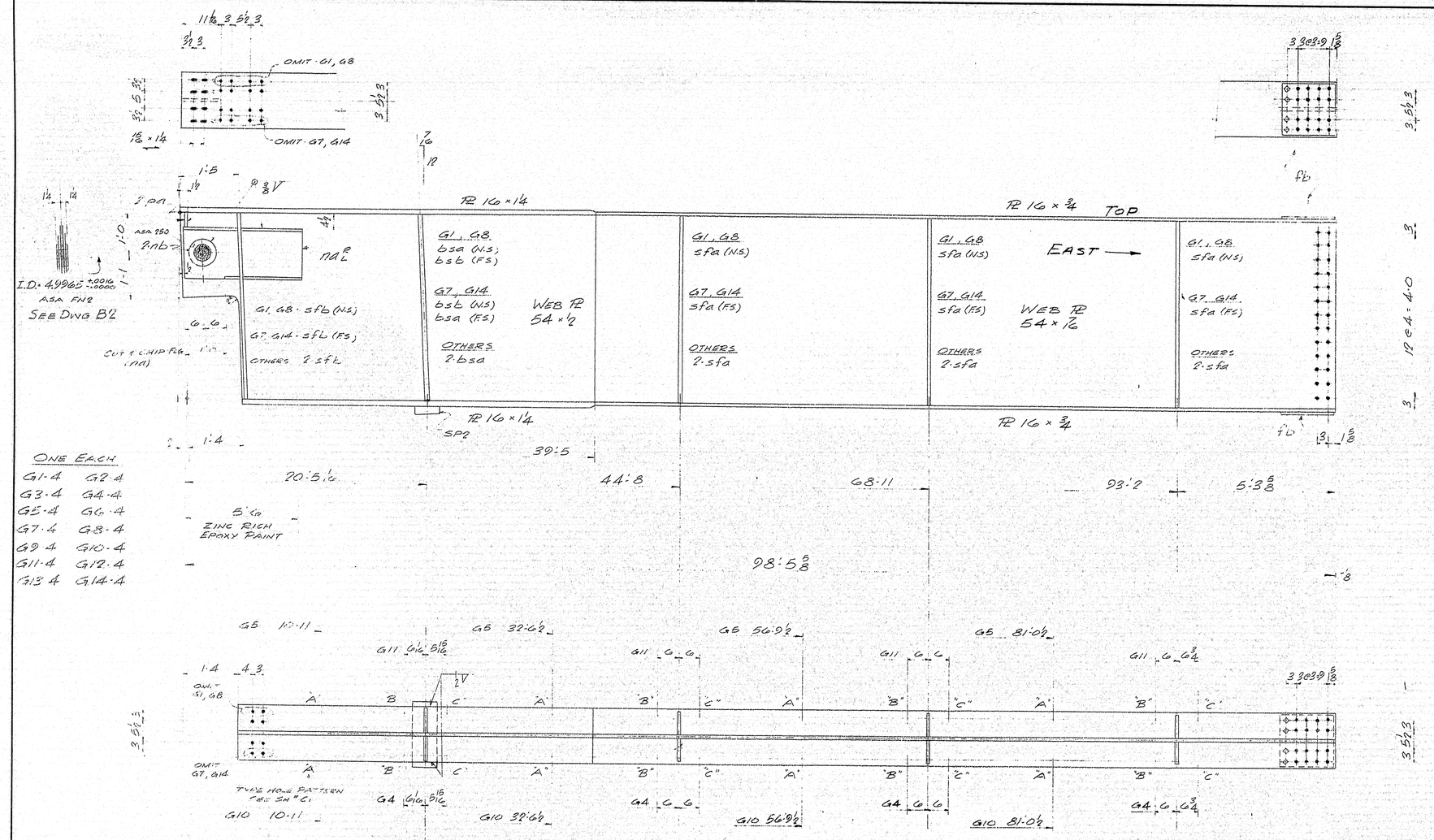
CUSTOMER: CIANCHETTE BROS INC
DESIGNER: HARDESTY & HANOVER

| ORDER NO. | JOB NO. | DRAWING NO |
|---|---|---|
| | 69-40 | C3 |

10662

K+E ENGINEERED IMAGE PAPER

0 1 2 3 4 5 INCHES




ONE EACH

| | |
|---|---|
| G1-4 | G2-4 |
| G3-4 | G4-4 |
| G5-4 | G6-4 |
| G7-4 | G8-4 |
| G9-4 | G10-4 |
| G11-4 | G12-4 |
| G13-4 | G14-4 |

5 Co ZINC RICH EPOXY PAINT

APPROVED:- MAY 15 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY D.D. Holdsman

HOLES ARE FOR HIGH TENSILE BOLTS
They are to be free from burrs and shall not be painted on any surface within 5" of such open holes.

AREAS PAINTED WITH ZINC RICH EPOXY PAINT ARE TO BE FULLY PAINTED.

| SHIP | BILL OF MATERIAL | | | | | | JOB NO. 69-40 | DWG. NO. C4 |
|---|---|---|---|---|---|---|---|---|
| MARK | NO. | MARK | SHAPE | LENGTH | | WT. | ITEM NO | REMARKS |
| G1-4 | 1 | | | | | | | |
| G2-4 | 1 | | | | | | | |
| G3-4 | 1 | | | | | | | |
| G4-4 | 1 | | | | | | | |
| G5-4 | 1 | | | | | | | |
| G6-4 | 1 | | | | | | | |
| G7-4 | 1 | | | | | | | |
| G8-4 | 1 | | | | | | | |
| G9-4 | 1 | | | | | | | |
| G10-4 | 1 | | | | | | | |
| G11-4 | 1 | | | | | | | |
| G12-4 | 1 | | | | | | | |
| G13-4 | 1 | | | | | | | |
| G14-4 | 1 | | | | | | | |
| | 14 | tf | PL 16 × 14 | 39 | 7 | | 5 | |
| | 14 | bf | do | 38 | 1 | | 6 | |
| | 14 | tf | PL 16 × ¾ | 59 | 0 5/8 | | 4 | |
| | 14 | bf | do | 59 | 0 5/8 | | 2 | |
| | 14 | WP | PL 54 × ½ | 39 | 7 | | 10 | |
| | 14 | WP | PL 54 × 7/16 | 59 | 0 5/8 | | 9 | |
| | 14 | SH2 | See Sh # 2 | | | | | |
| | 24 | bsa | PL 7½ × ¾ | 4 | 6 | | 11 | (+4) |
| | 4 | bsb | Do | 4 | 6 | | 11 | (+4) |
| | 72 | sfa | PL 7 × ½ | 4 | 6 | | 12 | |
| | 24 | sfb | Do | 4 | 6 | | 12 | |
| | 28 | na 2 | 15 C 40 | 2 | 11 | | 48 | |
| | 28 | nb | PL 8 × ½ | | 8 | | | |
| | 28 | PW | PL 3½ × ¾ | | 4½ | | | |
| | 28 | FL | PL 15 × 5/8 | 1 | 3 | | 49 | |

STEEL: ASTM. A 36
WELDING ELECTRODE E70
SHOP CONN: WELDED
FIELD CONN: ⅞" H.S. BOLTS A 325
HOLES: 15/16"
PAINT: ONE COAT RED LEAD PER MAINE SPECS
SPECIAL CLEANING: BLAST CLEAN
APPROVED:

GIRDER - SPAN 4

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-19-69 | 4 |
| DIST | 5-19-69 | 10 |
| REV. | | |
| CHECKED | JOHNS | 5/17/69 |
| DRAWN | JWF | |

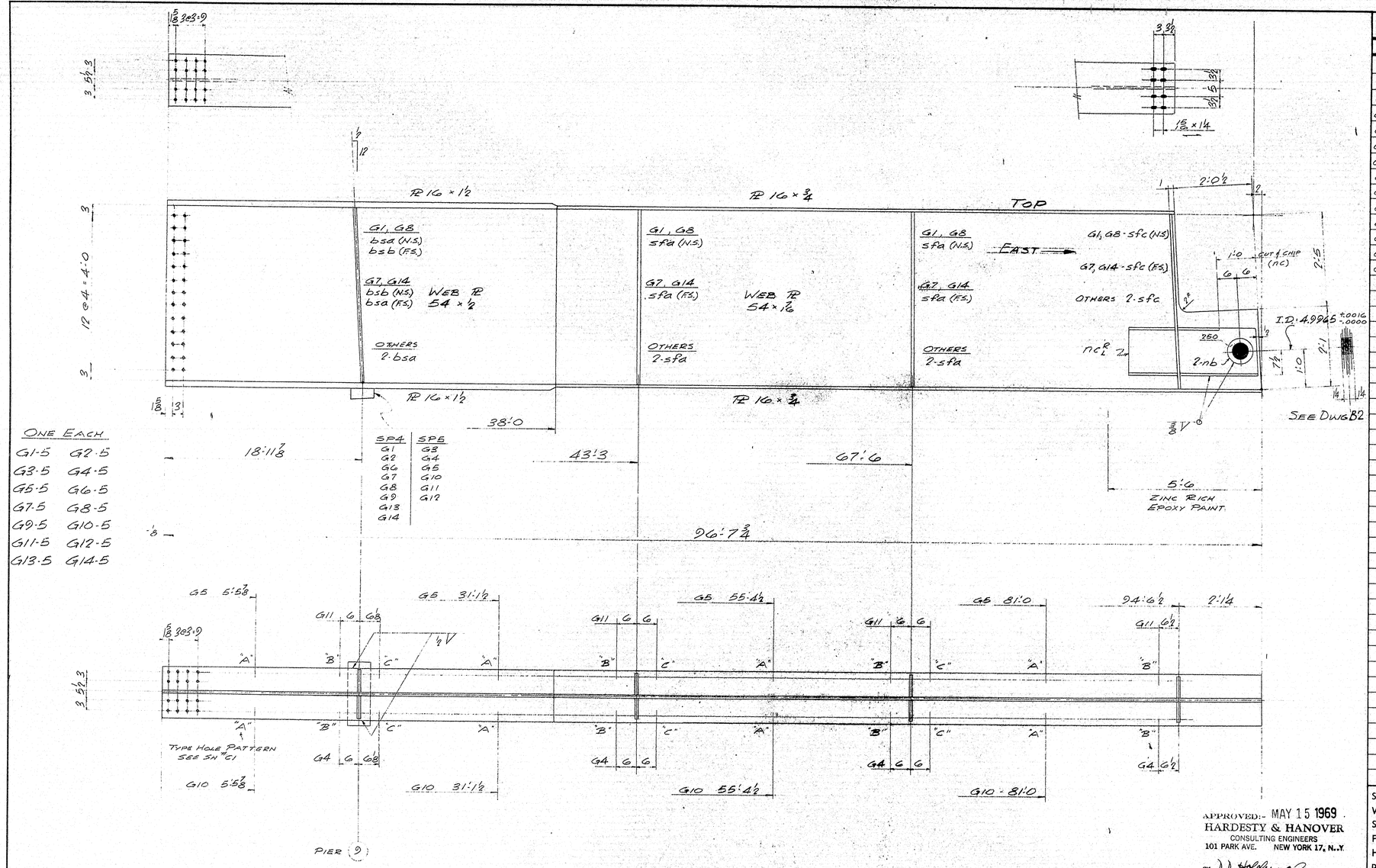
Bancroft & Martin Inc.
South Portland, Maine 04106

JOB:

CUSTOMER: CONCRETTE PRODS INC
DESIGNER: HARDESTY & HANOVER

| ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|
| | 69-40 | C4 |

106-3




ONE EACH

| | |
|---|---|
| G1-5 | G2-5 |
| G3-5 | G4-5 |
| G5-5 | G6-5 |
| G7-5 | G8-5 |
| G9-5 | G10-5 |
| G11-5 | G12-5 |
| G13-5 | G14-5 |

APPROVED:- MAY 15 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY J. J. Holdsworth

HOLES ARE FOR HIGH TENSILE BOLTS
They are to be free from burrs and shall not be painted on any surface within 5" of such open holes.

AREAS PAINTED WITH ZINC RICH EPOXY PAINT ARE TO BE FULLY PAINTED.

SHIP MARK — BILL OF MATERIAL — JOB NO. 69-40 — DWG. NO. C5

| SHIP MARK | NO. | MARK | SHAPE | LENGTH | | WT. | ITEM NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|
| G1-5 | 1 | | | | | | | |
| G2-5 | 1 | | | | | | | |
| G3-5 | 1 | | | | | | | |
| G4-5 | 1 | | | | | | | |
| G5-5 | 1 | | | | | | | |
| G6-5 | 1 | | | | | | | |
| G7-5 | 1 | | | | | | | |
| G8-5 | 1 | | | | | | | |
| G9-5 | 1 | | | | | | | |
| G10-5 | 1 | | | | | | | |
| G11-5 | 1 | | | | | | | |
| G12-5 | 1 | | | | | | | |
| G13-5 | 1 | | | | | | | |
| G14-5 | 1 | | | | | | | |
| | 14 | tf | PL 16 × 1/2 | 38 | 0 | | 20 | |
| | 14 | bf | do | 38 | 0 | | 20 | |
| | 14 | tf | PL 16 × 3/4 | 56 | 5 1/4 | | 19 | |
| | 14 | bf | do | 58 | 7 3/4 | | 18 | |
| | 14 | wp | PL 54 × 1/2 | 38 | 0 | | 23 | |
| | 14 | wp | PL 54 × 7/16 | 58 | 7 3/4 | | 22 | |
| | 8 | spA | SEE SH "B1 | | | | | |
| | 6 | spB | do | | | | | |
| | 24 | bsa | PL 7 1/2 × 3/4 | 4 | 6 | | 11 | (+4) |
| | 4 | bsb | do | 4 | 6 | | 11 | (+4) |
| | 48 | sfa | PL 7 × 1/2 | 4 | 6 | | 12 | |
| | 24 | sfc | Do | 4 | 6 | | 12 | |
| | 28 | nb | PL 8 × 1/2 | | 8 | | | |
| | 28 | nc L | 15 C 40 | 3 | 6 | | 49 | |
| | 28 | psa | PL 13 × 3/8 | 4 | 3 1/2 | | 13 | |
| | 28 | psb | PL 15 × 1/2 | 2 | 1 | | 14 | |
| | 56 | psc | PL 6 1/2 × 1/2 | 2 | 1 | | 15 | |

STEEL: ASTM. A-36
WELDING ELECTRODE E70
SHOP CONN: WELDED
FIELD CONN: 3/4" H.S. BOLTS A-325
HOLES: 13/16 ø
PAINT: ONE COAT RED LEAD PER MAINE SPECS.
SPECIAL CLEANING: BLAST CLEAN
APPROVED:

GIRDERS SPAN 5

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-19-69 | 4 |
| DIST | 5-19-69 | 10 |

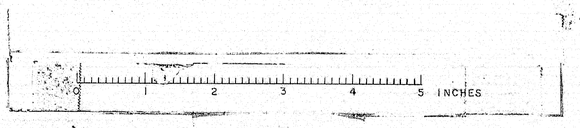
| REV. | | |
|---|---|---|
| CHECKED | DMB | 3/17/69 |
| DRAWN | JWF | |

Bancroft & Martin Inc.
South Portland, Maine 04106

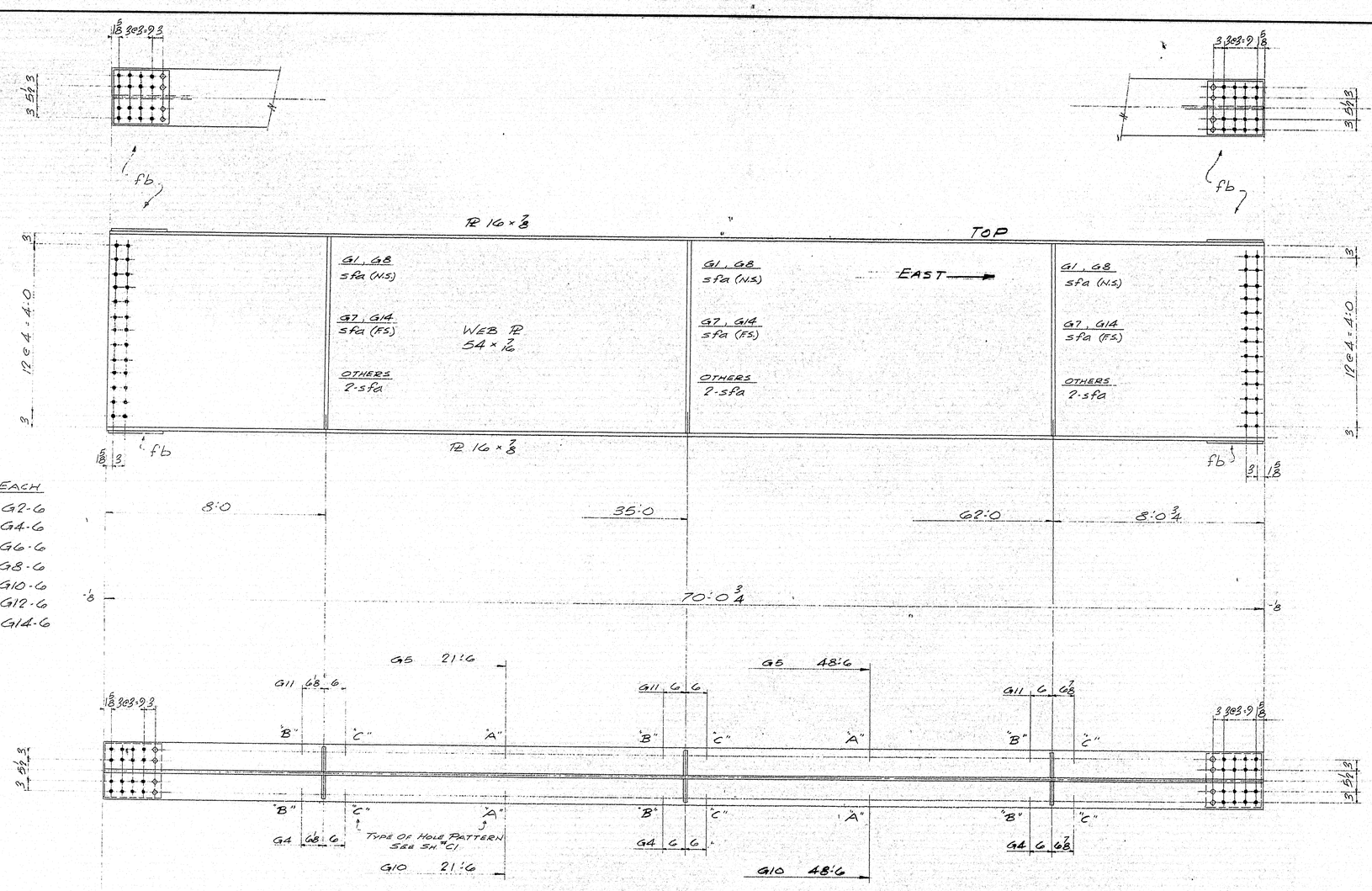
JOB: PISCATAQUA RIVER BRIDGE
Project No. [illegible]
Contract No. [illegible] Maine Approach
Structural Steel

CUSTOMER: CIANCHETTE BROS INC
DESIGNER: HARDESTY & HANOVER

| ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|
| | 69-40 | C5 |




106-4




ONE EACH

| | |
|---|---|
| G1-6 | G2-6 |
| G3-6 | G4-6 |
| G5-6 | G6-6 |
| G7-6 | G8-6 |
| G9-6 | G10-6 |
| G11-6 | G12-6 |
| G13-6 | G14-6 |

APPROVED:- MAY 15 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY D. D. Holdaway

HOLES ARE FOR HIGH TENSILE BOLTS
They are to be free from burrs and shall not be painted on any surface within 5" of such open holes.

| SHIP | BILL OF MATERIAL | | | JOB NO. 69-40 | | DWG. NO. C6 | | |
|---|---|---|---|---|---|---|---|---|
| MARK | NO. | MARK | SHAPE | LENGTH | | WT. | ITEM NO. | REMARKS |
| G1-6 | 1 | | | | | | | |
| G2-6 | 1 | | | | | | | |
| G3-6 | 1 | | | | | | | |
| G4-6 | 1 | | | | | | | |
| G5-6 | 1 | | | | | | | |
| G6-6 | 1 | | | | | | | |
| G7-6 | 1 | | | | | | | |
| G8-6 | 1 | | | | | | | |
| G9-6 | 1 | | | | | | | |
| G10-6 | 1 | | | | | | | |
| G11-6 | 1 | | | | | | | |
| G12-6 | 1 | | | | | | | |
| G13-6 | 1 | | | | | | | |
| G14-6 | 1 | | | | | | | |
| | 14 | tf | PL 16 × 7/8 | 70 | 0 3/4 | | 21 | |
| | 14 | bf | do | 70 | 0 3/4 | | 21 | |
| | 14 | WP | PL 54 × 7/16 | 70 | 0 3/4 | | 24 | |
| | 72 | sfa | PL 7 × 1/2 | 4 | 6 | | 12 | |
| | 56 | fb | PL 15 × 5/8 | 1 | 3 | | 69 | |

STEEL: ASTM. A-36
WELDING ELECTRODE E70
SHOP CONN: WELDED
FIELD CONN: 7/8 ϕ H.S. BOLTS A-325
HOLES: 15/16 ϕ
PAINT: ONE COAT RED LEAD PER MAINE SPECS.
SPECIAL CLEANING: BLAST CLEAN
APPROVED:

GIRDERS SPAN G

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-19-69 | 4 |
| DIST. | 5-19-69 | 10 |

Bancroft & Martin Inc.
South Portland, Maine 04106

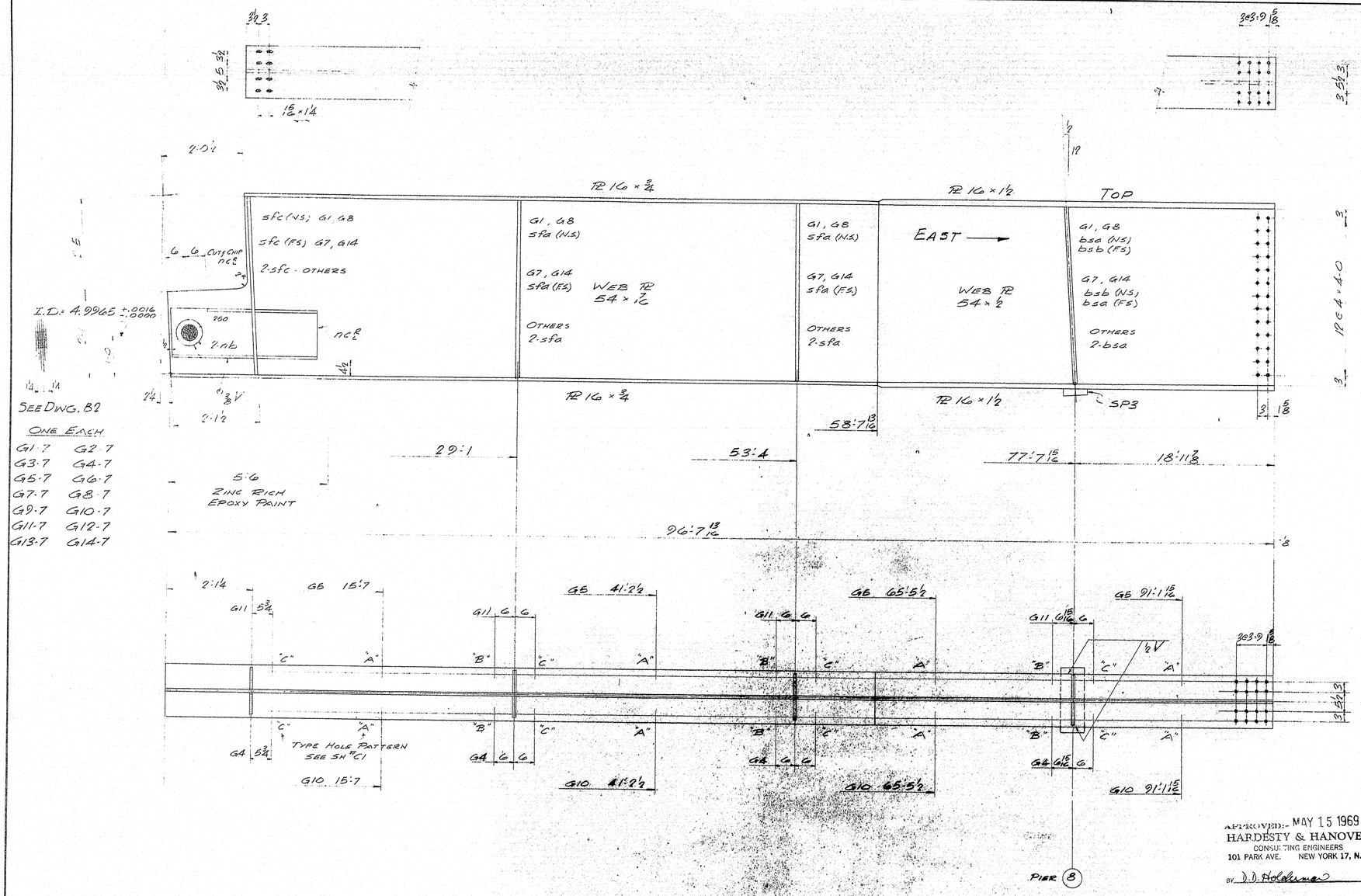
JOB: PISCATAQUA RIVER BRIDGE
Welded Plate Girder
Structural Steel

CUSTOMER: CIANCHETTE BROS INC
DESIGNER: HARDESTY & HANOVER

| REV. | | | ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|---|---|---|
| CHECKED | LOMB | 3/17/69 | | 69-40 | C6 |
| DRAWN | JWF | | | | |

K-E ALBANY(N.Y.) TRACING PAPER

136-5




APPROVED:- MAY 15 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y
BY J.D. Holdsworth

HOLES ARE FOR HIGH TENSILE BOLTS
They are to be free from burrs and shall not be painted on any surface within 5" of such open holes.

AREAS PAINTED WITH ZINC RICH EPOXY PAINT ARE TO BE FULLY PAINTED.

| SHIP MARK | NO. | MARK | SHAPE | LENGTH | WT. | ITEM NO. | REMARKS |
|---|---|---|---|---|---|---|---|
| G1-7 | 1 | | | | | | |
| G2-7 | 1 | | | | | | |
| G3-7 | 1 | | | | | | |
| G4-7 | 1 | | | | | | |
| G5-7 | 1 | | | | | | |
| G6-7 | 1 | | | | | | |
| G7-7 | 1 | | | | | | |
| G8-7 | 1 | | | | | | |
| G9-7 | 1 | | | | | | |
| G10-7 | 1 | | | | | | |
| G11-7 | 1 | | | | | | |
| G12-7 | 1 | | | | | | |
| G13-7 | 1 | | | | | | |
| G14-7 | 1 | | | | | | |
| | 14 | tf | PL 16 × 1/2 | 38 0 | | 10 | |
| | 14 | bf | do | 38 0 | | 20 | |
| | 14 | tf | PL 16 × 3/4 | 56 9 1/16 | | 19 | |
| | 14 | bf | do | 58 7 13/16 | | 18 | |
| | 14 | WP | PL 54 × 1/2 | 38 0 | | 23 | |
| | 14 | WP | PL 54 × 7/16 | 58 9 | | 22 | |
| | 14 | SP3 | SEE SH "B1 | | | | |
| | 24 | bsa | PL 7 1/2 × 3/4 | 4 6 | | 11 | (+4) |
| | 4 | bsb | do | 4 6 | | 11 | (+4) |
| | 48 | sfa | PL 7 × 1/2 | 4 6 | | 12 | |
| | 24 | sfc | Do | 4 6 | | 12 | |
| | 28 | nb | PL 8 × 1/2 | 8 | | | |
| | 28 | nc2 | 15 C 40 | 3 6 | | 49 | |
| | 28 | psa | PL 13 × 3/8 | 4 3 1/2 | | 13 | |
| | 28 | psb | PL 15 × 1/2 | 2 1 | | 14 | |
| | 56 | psc | PL 6 1/2 × 1/2 | 2 1 | | 15 | |

STEEL: ASTM. A-36
WELDING ELECTRODE E70
SHOP CONN: WELDED
FIELD CONN: 7/8" ϕ H.S. BOLTS A-325
HOLES: 15/16" ϕ
PAINT: ONE COAT RED LEAD PER MAINE SPECS
SPECIAL CLEANING: BLAST CLEAN
APPROVED:

GIRDERS SPAN 7

| PRINT DIST. | | |
|---|---|---|
| FAB. | 5-19-69 | 4 |
| DIST. | 5-19-69 | 10 |

| REV. | | |
|---|---|---|
| CHECKED | JWF | 3/17/69 |
| DRAWN | JWF | |

Bancroft & Martin Inc.
South Portland, Maine 04106

JOB: PISCATAQUA RIVER BRIDGE
Project No. I-95-1 (22) 16
Contract No. 2, Maine Approach
Structural Steel

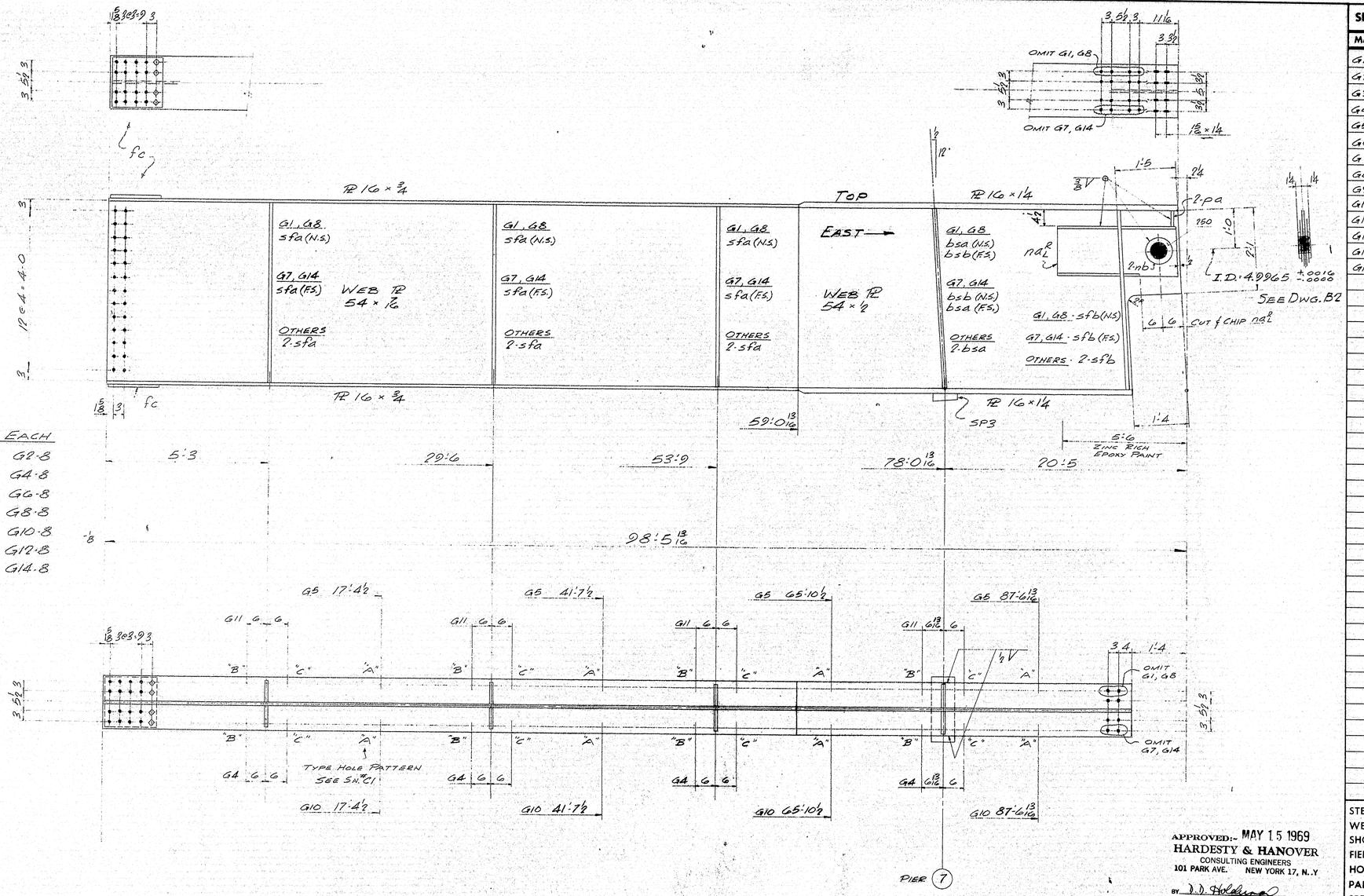
CUSTOMER: CIANCHETTE BROS INC
DESIGNER: HARDESTY & HANOVER

| ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|
| | 69-40 | C7 |

186-7

K&E ALBANENE/ TRACING PAPER

0 1 2 3 4 5 INCHES




ONE EACH

G1-8 G2-8
G3-8 G4-8
G5-8 G6-8
G7-8 G8-8
G9-8 G10-8
G11-8 G12-8
G13-8 G14-8

APPROVED:- MAY 15 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y
BY D.D. Hardesty

HOLES ARE FOR HIGH TENSILE BOLTS
They are to be free from burrs and shall not be painted on any surface within 5" of such open holes.

AREAS PAINTED WITH ZINC RICH EPOXY PAINT ARE TO BE FULLY PAINTED.

| SHIP MARK | NO. | MARK | SHAPE | LENGTH | | WT. | ITEM NO. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| G1-8 | 1 | | | | | | | | |
| G2-8 | 1 | | | | | | | | |
| G3-8 | 1 | | | | | | | | |
| G4-8 | 1 | | | | | | | | |
| G5-8 | 1 | | | | | | | | |
| G6-8 | 1 | | | | | | | | |
| G7-8 | 1 | | | | | | | | |
| G8-8 | 1 | | | | | | | | |
| G9-8 | 1 | | | | | | | | |
| G10-8 | 1 | | | | | | | | |
| G11-8 | 1 | | | | | | | | |
| G12-8 | 1 | | | | | | | | |
| G13-8 | 1 | | | | | | | | |
| G14-8 | 1 | | | | | | | | |
| | 14 | tf | PL 16 × 1 1/4 | 39 | 2 3/4 | | 29 | | |
| | 14 | bf | do | 38 | 1 | | 30 | | |
| | 14 | tf | PL 16 × 3/4 | 59 | 0 13/16 | | 25 | | |
| | 14 | bf | do | 59 | 0 13/16 | | 25 | | |
| | 14 | WP | PL 54 × 1/2 | 39 | 3 3/4 | | 31 | | |
| | 14 | WP | PL 54 × 7/16 | 59 | 0 13/16 | | 33 | | |
| | 14 | SP3 | SEE SH "B1 | | | | | | |
| | 24 | bsa | PL 7 1/2 × 3/4 | 4 | 6 | | 11 | | (+4) |
| | 4 | bsb | do | 4 | 6 | | 11 | | (+4) |
| | 72 | sfa | PL 7 × 1/2 | 4 | 6 | | 12 | | |
| | 24 | sfb | do | 4 | 6 | | 12 | | |
| | 28 | na2 | 15 C 40 | 2 | 11 | | 48 | | |
| | 28 | nb | PL 3 × 1/2 | | 8 | | | | |
| | 28 | pa | PL 3 1/2 × 3/4 | | 4 1/2 | | | | |
| | 28 | fc | PL 15 × 3/4 | 1 | 3 | | 70 | | |

STEEL: ASTM. A-36
WELDING ELECTRODE E70
SHOP CONN: WELDED
FIELD CONN: 7/8" ϕ H.S. BOLTS A-325
HOLES: 15/16" ϕ
PAINT: ONE COAT RED LEAD PER MAINE SPECS
SPECIAL CLEANING: BLAST CLEAN
APPROVED:

GIRDERS SPAN 8

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-19-69 | 4 |
| DIST | 5-19-69 | 10 |

| REV. | | |
|---|---|---|
| CHECKED | dond | 3/17/69 |
| DRAWN | JWF | |

Bancroft & Martin Inc.
South Portland, Maine 04106

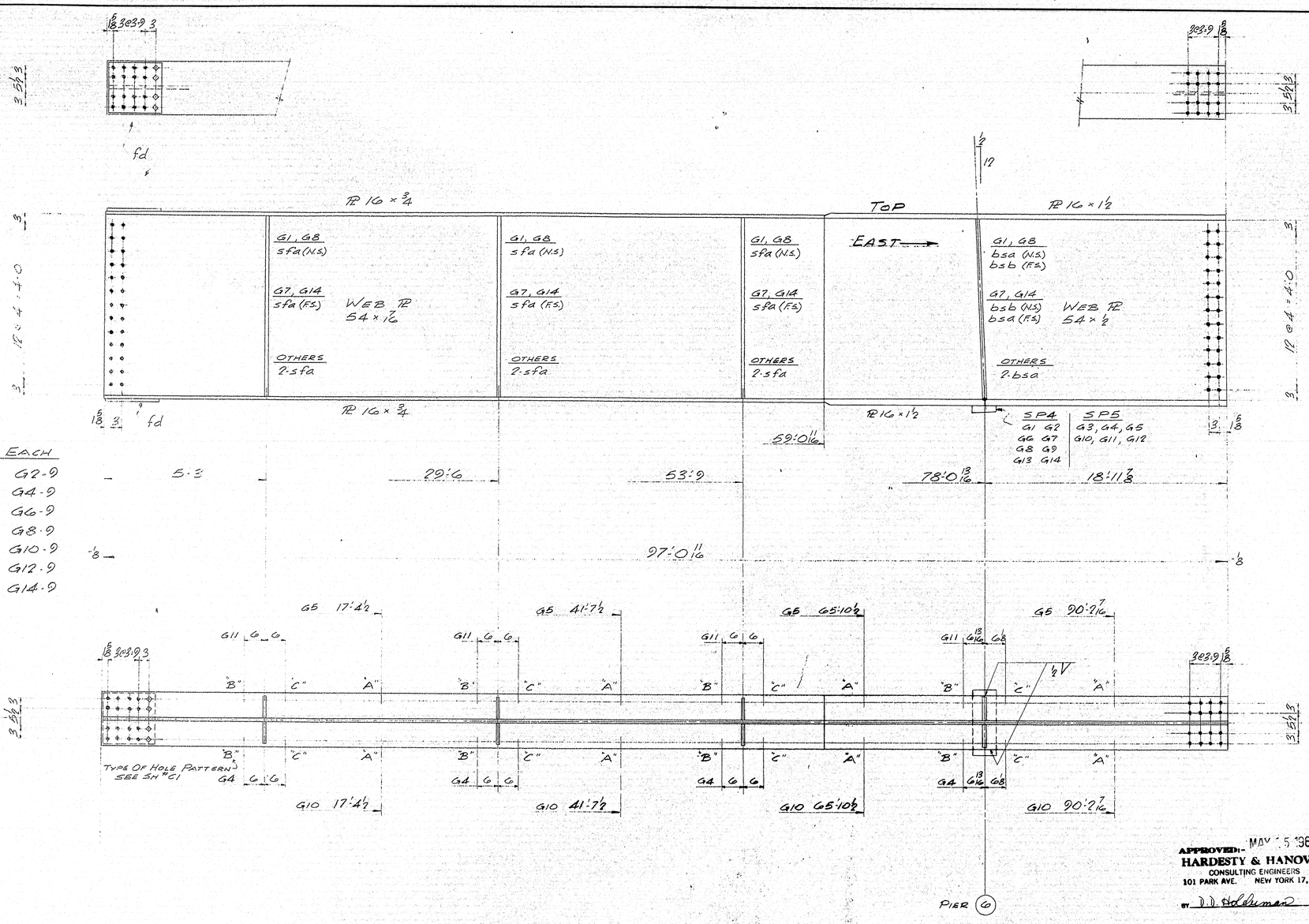
JOB: PISCATAQUA RIVER BRIDGE
Project No. I 95 1 (22) 16
Contract "A", Maine Approach
Structural Steel

CUSTOMER: CIANCHETTE BROS. INC.
DESIGNER: HARDESTY & HANOVER

| ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|
| | 69-40 | C8 |

A96-4

0 1 2 3 4 5 INCHES




ONE EACH

G1-9 G2-9
G3-9 G4-9
G5-9 G6-9
G7-9 G8-9
G9-9 G10-9
G11-9 G12-9
G13-9 G14-9

APPROVED:- MAY 15 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY D. D. Holdsman

HOLES ARE FOR HIGH TENSILE BOLTS
They are to be free from burrs and shall not be painted on any surface within 5" of such open holes.

| SHIP MARK | NO. | MARK | SHAPE | LENGTH | | WT. | ITEM NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|
| G1-9 | 1 | | | | | | | |
| G2-9 | 1 | | | | | | | |
| G3-9 | 1 | | | | | | | |
| G4-9 | 1 | | | | | | | |
| G5-9 | 1 | | | | | | | |
| G6-9 | 1 | | | | | | | |
| G7-9 | 1 | | | | | | | |
| G8-9 | 1 | | | | | | | |
| G9-9 | 1 | | | | | | | |
| G10-9 | 1 | | | | | | | |
| G11-9 | 1 | | | | | | | |
| G12-9 | 1 | | | | | | | |
| G13-9 | 1 | | | | | | | |
| G14-9 | 1 | | | | | | | |
| | 14 | tf | PL 16 × 1 1/2 | 38 | 0 | | 28 | |
| | 14 | bf | do | 38 | 0 | | 28 | |
| | 14 | tf | PL 16 × 3/4 | 59 | 0 11/16 | | 25 | |
| | 14 | bf | do | 59 | 0 11/16 | | 25 | |
| | 14 | WP | PL 54 × 1/2 | 38 | 0 | | 33 | |
| | 14 | WP | PL 54 × 7/16 | 59 | 0 11/16 | | 33 | |
| | 8 | SP4 | SEE SH "B1" | | | | | |
| | 6 | SP5 | do | | | | | |
| | 24 | bsa | PL 7 1/2 × 3/4 | 4 | 6 | | 11 | (+4) |
| | 4 | bsb | do | 4 | 6 | | 11 | (+4) |
| | 72 | sfa | PL 7 × 1/2 | 4 | 6 | | 12 | |
| | 28 | fd | PL 15 × 1/2 | 1 | 3 | | 71 | |
| | 28 | psa | PL 13 × 3/8 | 4 | 3 1/2 | | 13 | |
| | 28 | psb | PL 15 × 1/2 | 2 | 1 | | 14 | |
| | 56 | psc | PL 6 1/2 × 1/2 | 2 | 1 | | 15 | |

STEEL: ASTM. A-36
WELDING ELECTRODE E70
SHOP CONN: WELDED
FIELD CONN: 7/8" H.S. BOLTS A-325
HOLES: 15/16"
PAINT: ONE COAT RED LEAD PER MAINE SPECS
SPECIAL CLEANING: BLAST CLEAN
APPROVED:

GIRDERS SPAN 9

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-19-69 | 4 |
| DIST. | 5-19-69 | 10 |

Bancroft & Martin Inc.
South Portland, Maine 04106

JOB: PISCATAQUA RIVER BRIDGE
Portsmouth Approach

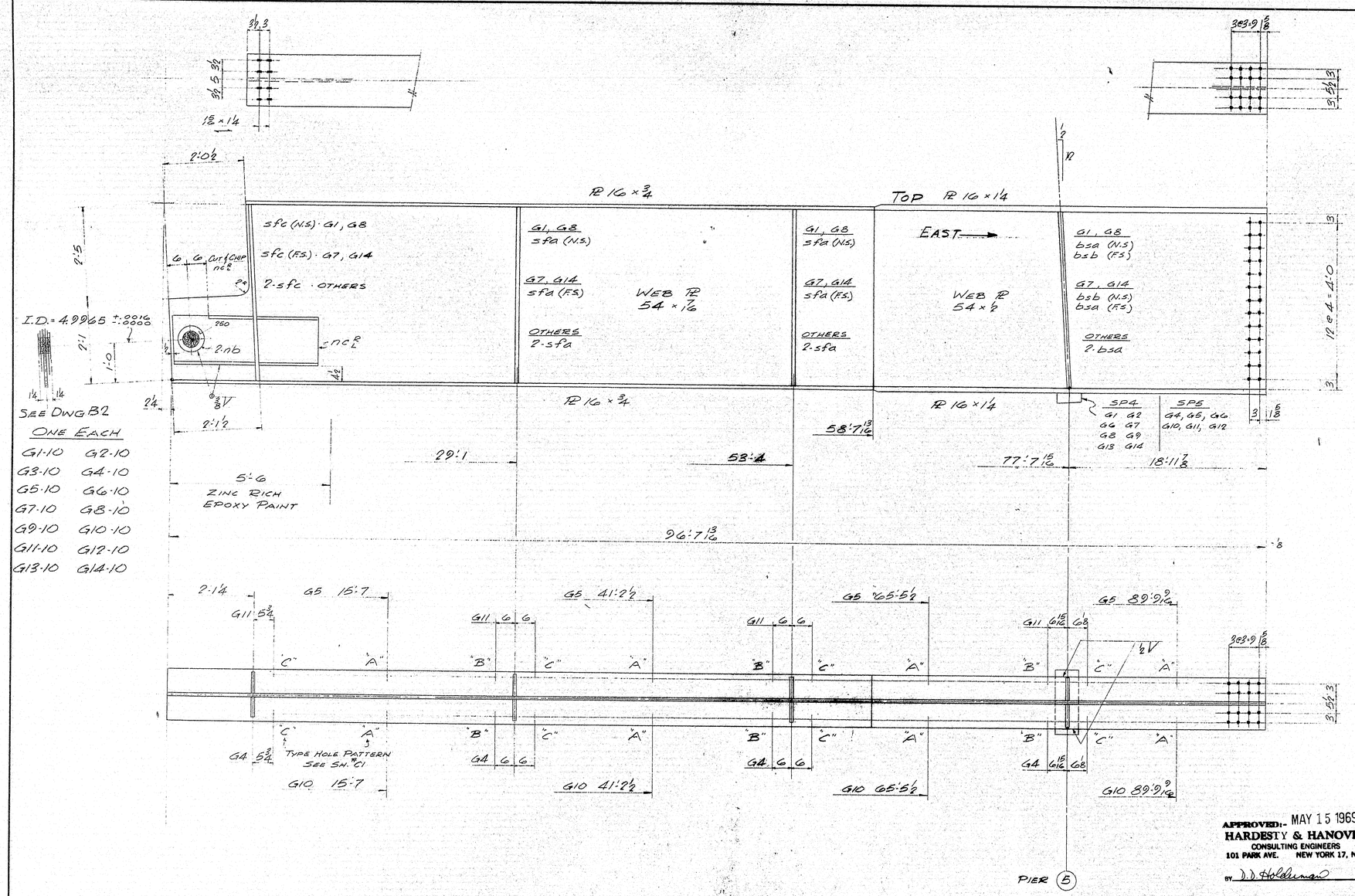
CUSTOMER: CIANCHETTE BROS INC.
DESIGNER: HARDESTY & HANOVER

| REV. | | | ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|---|---|---|
| CHECKED | DMB | 3/17/69 | | 69-40 | C9 |
| DRAWN | JWF | | | | |

K+E ALBANY(NY) MADE IN USA

126-9

0 1 2 3 4 5 INCHES




| SHIP MARK | NO. | MARK | SHAPE | LENGTH | | WT. | ITEM NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|
| G1-10 | 1 | | | | | | | |
| G2-10 | 1 | | | | | | | |
| G3-10 | 1 | | | | | | | |
| G4-10 | 1 | | | | | | | |
| G5-10 | 1 | | | | | | | |
| G6-10 | 1 | | | | | | | |
| G7-10 | 1 | | | | | | | |
| G8-10 | 1 | | | | | | | |
| G9-10 | 1 | | | | | | | |
| G10-10 | 1 | | | | | | | |
| G11-10 | 1 | | | | | | | |
| G12-10 | 1 | | | | | | | |
| G13-10 | 1 | | | | | | | |
| G14-10 | 1 | | | | | | | |
| | 14 | tf | PL 16 × 14 | 38 | 0 | | 27 | |
| | 14 | bf | do | 38 | 0 | | 27 | |
| | 14 | tf | PL 16 × 3/4 | 56 | 9 9/16 | | 26 | |
| | 14 | bf | do | 58 | 7 13/16 | | 25 | |
| | 14 | WP | PL 54 × 1/2 | 38 | 0 | | 39 | |
| | 14 | WP | PL 54 × 7/16 | 58 | 9 | | 33 | |
| | 8 | SP4 | SEE SH. "B1" | | | | | |
| | 6 | SP5 | do | | | | | |
| | 24 | bsa | PL 7 1/2 × 3/4 | 4 | 6 | | 11 | (+4) |
| | 4 | bsb | do | 4 | 6 | | 11 | (+4) |
| | 48 | sfa | PL 7 × 1/2 | 4 | 6 | | 12 | |
| | 24 | sfc | do | 4 | 6 | | 12 | |
| | 28 | nb | PL 8 × 1/2 | 0 | 8 | | | |
| | 28 | nc L | 15 ∠ 40 | 3 | 6 | | 49 | |
| | 28 | psa | PL 13 × 3/8 | 4 | 3 1/2 | | 13 | |
| | 28 | psb | PL 15 × 1/2 | 2 | 1 | | 14 | |
| | 56 | psc | PL 6 1/2 × 1/2 | 2 | 1 | | 15 | |

JOB NO. 69-40 DWG. NO. C10

STEEL: ASTM. A-36
WELDING ELECTRODE E70
SHOP CONN: WELDED
FIELD CONN: 3/4" H.S. BOLTS A-325
HOLES: 15/16 ϕ
PAINT: ONE COAT RED LEAD PER MAINE SPECS
SPECIAL CLEANING: BLAST CLEAN
APPROVED:

GIRDERS SPAN 10

APPROVED:- MAY 15 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y
BY D.D. Holdeman

HOLES ARE FOR HIGH TENSILE BOLTS
They are to be free from burrs and shall not be painted on any surface within 1" of such open holes.

AREAS PAINTED WITH ZINC RICH EPOXY PAINT ARE TO BE FULLY PAINTED.

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-19-69 | 4 |
| DIST. | 5-19-69 | 10 |
| REV. | | |
| CHECKED | JWF | 5/17/69 |
| DRAWN | JWF | |

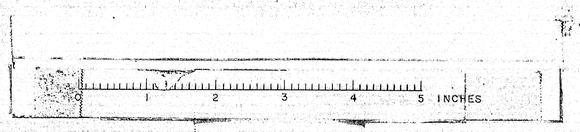
Bancroft & Martin Inc.
South Portland, Maine 04106

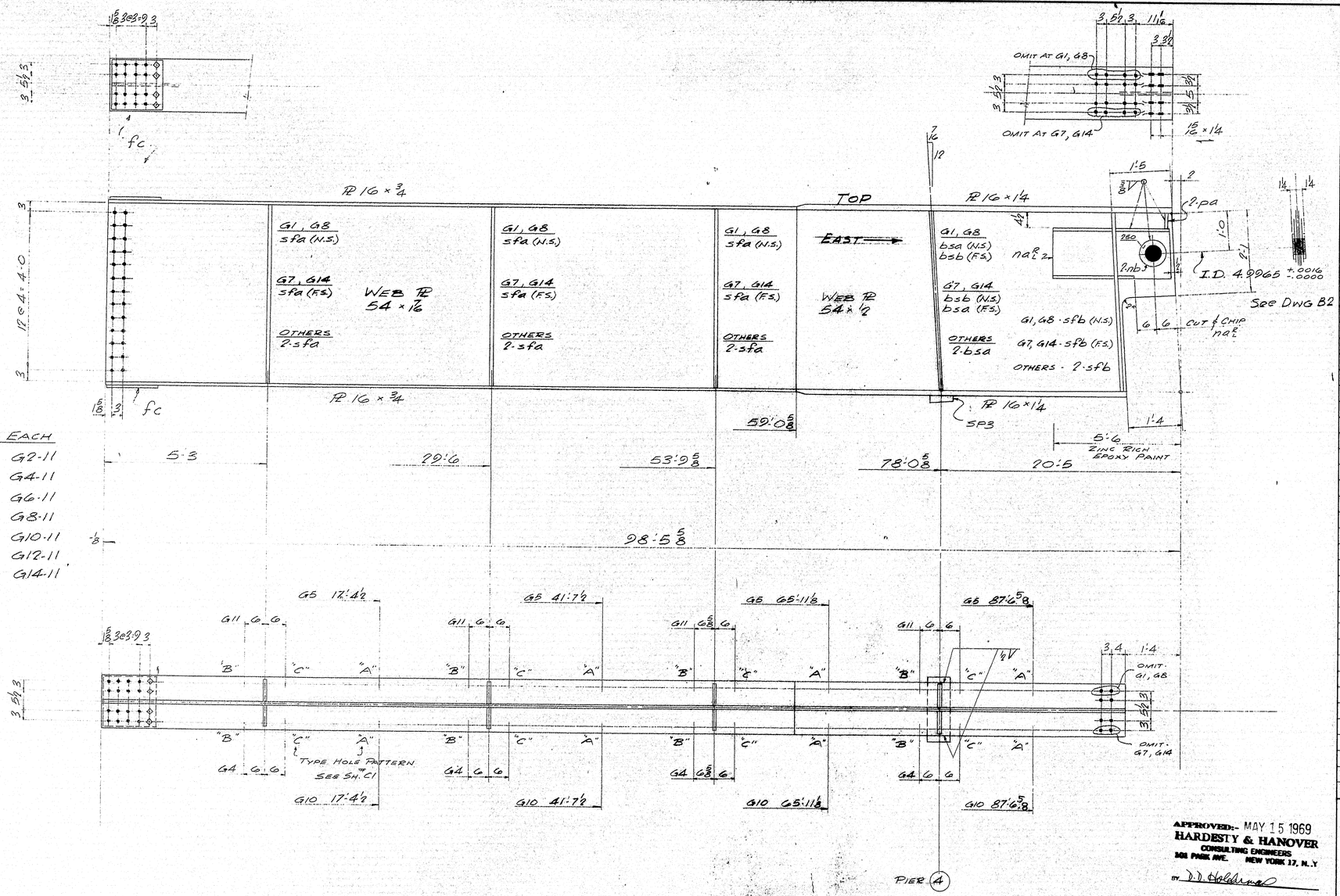
JOB: PISCATAQUA [illegible] BRIDGE

CUSTOMER: CIANCHETTE BROS INC
DESIGNER: HARDESTY & HANOVER

| ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|
| | 69-40 | C10 |

106-10






ONE EACH

| | |
|---|---|
| G1-11 | G2-11 |
| G3-11 | G4-11 |
| G5-11 | G6-11 |
| G7-11 | G8-11 |
| G9-11 | G10-11 |
| G11-11 | G12-11 |
| G13-11 | G14-11 |

APPROVED:- MAY 15 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY D.D. Holderman

HOLES ARE FOR HIGH TENSILE BOLTS
They are to be free from burrs and shall not be painted on any surface within 5" of such open holes.

AREAS PAINTED WITH ZINC RICH EPOXY PAINT ARE TO BE FULLY PAINTED

| SHIP MARK | NO. | MARK | SHAPE | LENGTH | | WT. | ITEM NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|
| G1-11 | 1 | | | | | | | |
| G2-11 | 1 | | | | | | | |
| G3-11 | 1 | | | | | | | |
| G4-11 | 1 | | | | | | | |
| G5-11 | 1 | | | | | | | |
| G6-11 | 1 | | | | | | | |
| G7-11 | 1 | | | | | | | |
| G8-11 | 1 | | | | | | | |
| G9-11 | 1 | | | | | | | |
| G10-11 | 1 | | | | | | | |
| G11-11 | 1 | | | | | | | |
| G12-11 | 1 | | | | | | | |
| G13-11 | 1 | | | | | | | |
| G14-11 | 1 | | | | | | | |
| | 14 | bf | PL 16 × 1/4 | 39 | 3 | | 35 | |
| | 14 | bf | do | 38 | 1 | | 36 | |
| | 14 | tf | PL 16 × 3/4 | 59 | 0 5/8 | | 34 | |
| | 14 | bf | do | 59 | 0 5/8 | | 34 | |
| | 14 | WP | PL 54 × 1/2 | 39 | 4 | | 43 | |
| | 14 | WP | PL 54 × 7/16 | 59 | 0 5/8 | | 45 | |
| | 14 | SP3 | SEE SH# B1 | | | | | |
| | 24 | bsa | PL 7 1/2 × 3/4 | 4 | 6 | | 11 | (+1/4) |
| | 4 | bsb | do | 4 | 6 | | 11 | (+1/4) |
| | 72 | sfa | PL 7 × 1/2 | 4 | 6 | | 12 | |
| | 24 | sfb | do | 4 | 6 | | 12 | |
| | 28 | nat | 15 ∠ 40 | 7 | 11 | | 48 | |
| | 28 | nb | PL 8 × 1/2 | | 8 | | | |
| | 28 | pa | PL 3 1/2 × 3/4 | | 4 1/2 | | | |
| | 28 | fc | PL 15 × 3/4 | 1 | 3 | | 10 | |

STEEL: ASTM. A-36
WELDING ELECTRODE E70
SHOP CONN: WELDED
FIELD CONN: 7/8" ϕ H.S. BOLTS A-325
HOLES: 15/16" ϕ
PAINT: ONE COAT RED LEAD PER MAINE SPECS
SPECIAL CLEANING: BLAST CLEAN
APPROVED:

GIRDERS SPAN 11

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-19-69 | 4 |
| DIST | 5-19-69 | 10 |

| REV. | | |
|---|---|---|
| CHECKED | dms | 3/17/69 |
| DRAWN | JWF | |

Bancroft & Martin Inc.
South Portland, Maine 04106

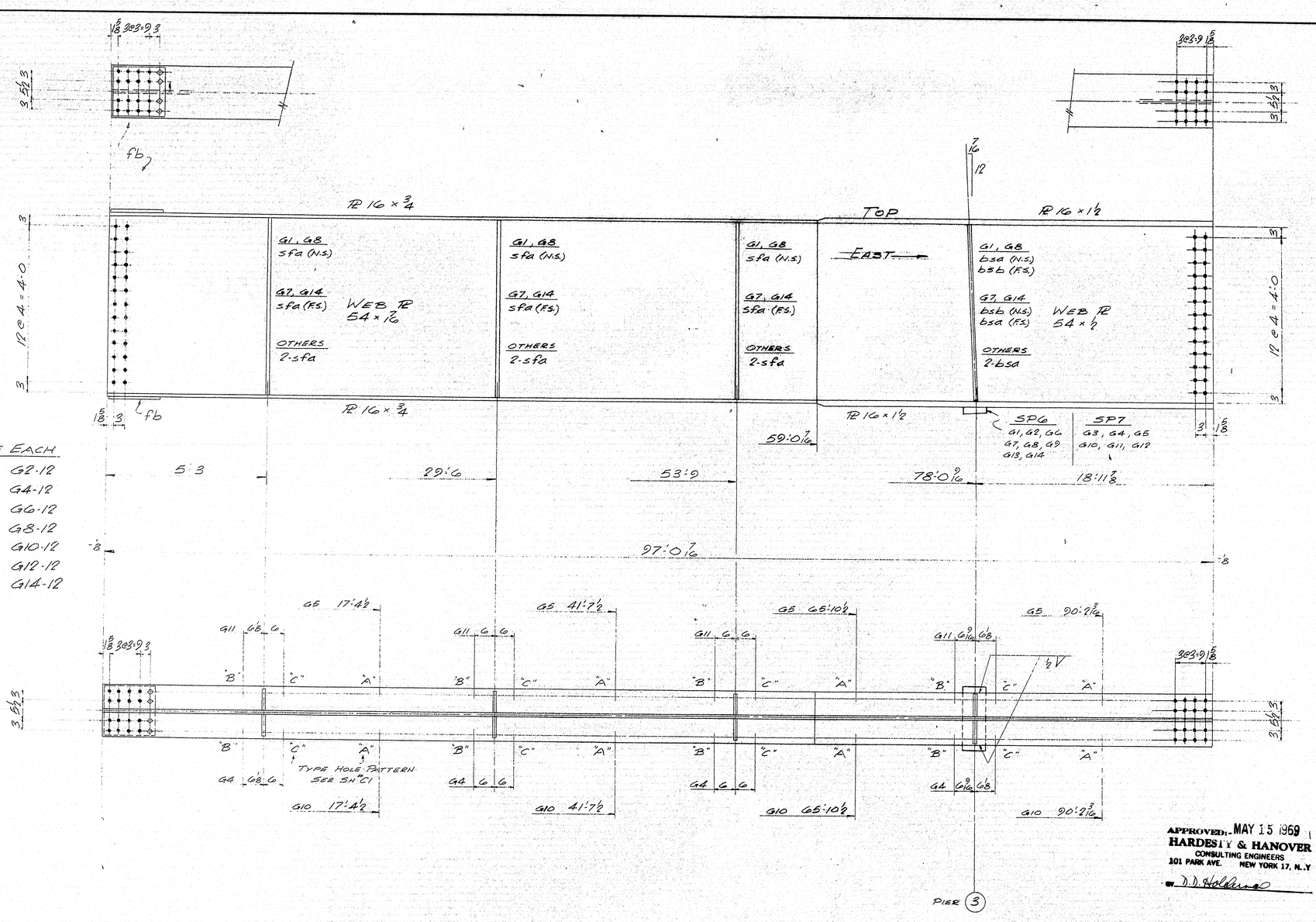
JOB: PISCATAQUA RIVER BRIDGE
Project No. 2 of Contract No. 2 of Contract Agreement
to Interstate Road

CUSTOMER: CIANCHETTE BROS INC.
DESIGNER: HARDESTY & HANOVER

| ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|
| | 69-40 | C11 |

106-11

K&E ALBANENE TRACING PAPER




ONE EACH

G1-12 G2-12
G3-12 G4-12
G5-12 G6-12
G7-12 G8-12
G9-12 G10-12
G11-12 G12-12
G13-12 G14-12

APPROVED: MAY 15 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
D.D. Holbrook

HOLES ARE FOR HIGH TENSILE BOLTS
They are to be free from burrs and shall not be painted on any surface within 5" of such open holes.

| SHIP MARK | NO. | MARK | SHAPE | LENGTH | | WT. | ITEM NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|
| G1-12 | 1 | | | | | | | |
| G2-12 | 1 | | | | | | | |
| G3-12 | 1 | | | | | | | |
| G4-12 | 1 | | | | | | | |
| G5-12 | 1 | | | | | | | |
| G6-12 | 1 | | | | | | | |
| G7-12 | 1 | | | | | | | |
| G8-12 | 1 | | | | | | | |
| G9-12 | 1 | | | | | | | |
| G10-12 | 1 | | | | | | | |
| G11-12 | 1 | | | | | | | |
| G12-12 | 1 | | | | | | | |
| G13-12 | 1 | | | | | | | |
| G14-12 | 1 | | | | | | | |
| | 14 | tf | PL 16 × 1 1/2 | 38 | 0 | | 37 | |
| | 14 | bf | do | 38 | 0 | | 37 | |
| | 14 | tf | PL 16 × 3/4 | 59 | 0 1/16 | | 34 | |
| | 14 | bf | do | 59 | 0 7/16 | | 34 | |
| | 14 | WP | PL 54 × 1/2 | 38 | 0 | | 44 | |
| | 14 | WP | PL 54 × 1/16 | 59 | 0 1/16 | | 45 | |
| | 24 | bsa | PL 7 1/2 × 3/4 | 4 | 6 | | 11 | (+4) |
| | 4 | bsb | do | 4 | 6 | | 11 | (+4) |
| | 72 | sfa | PL 7 × 1/2 | 4 | 6 | | 12 | |
| | 28 | fb | PL 15 × 5/8 | 1 | 3 | | 69 | |
| | 8 | SP6 | SEE SH #B1 | | | | | |
| | 6 | SP7 | do | | | | | |
| | 28 | psa | PL 13 × 3/8 | 4 | 3 1/2 | | 13 | |
| | 28 | psb | PL 15 × 1/2 | 2 | 1 | | 14 | |
| | 56 | psc | PL 6 2 × 1/2 | 2 | 1 | | 15 | |

STEEL: ASTM. A-36
WELDING ELECTRODE E70
SHOP CONN: WELDED
FIELD CONN: 7/8 d H.S. BOLTS A-325
HOLES: 15/16 d
PAINT: ONE COAT RED LEAD PER MAINE SPECS
SPECIAL CLEANING: BLAST CLEAN
APPROVED:

GIRDERS SPAN 12

| | PRINT DIST. | |
|---|---|---|
| FAB | 5-19-69 | 4 |
| DIST | 5-19-69 | 10 |

| | | |
|---|---|---|
| REV. | | |
| CHECKED | JWB | 3/7/69 |
| DRAWN | JWF | |

Bancroft & Martin Inc.
South Portland, Maine 04106

JOB: PISCATAQUA RIVER BRIDGE

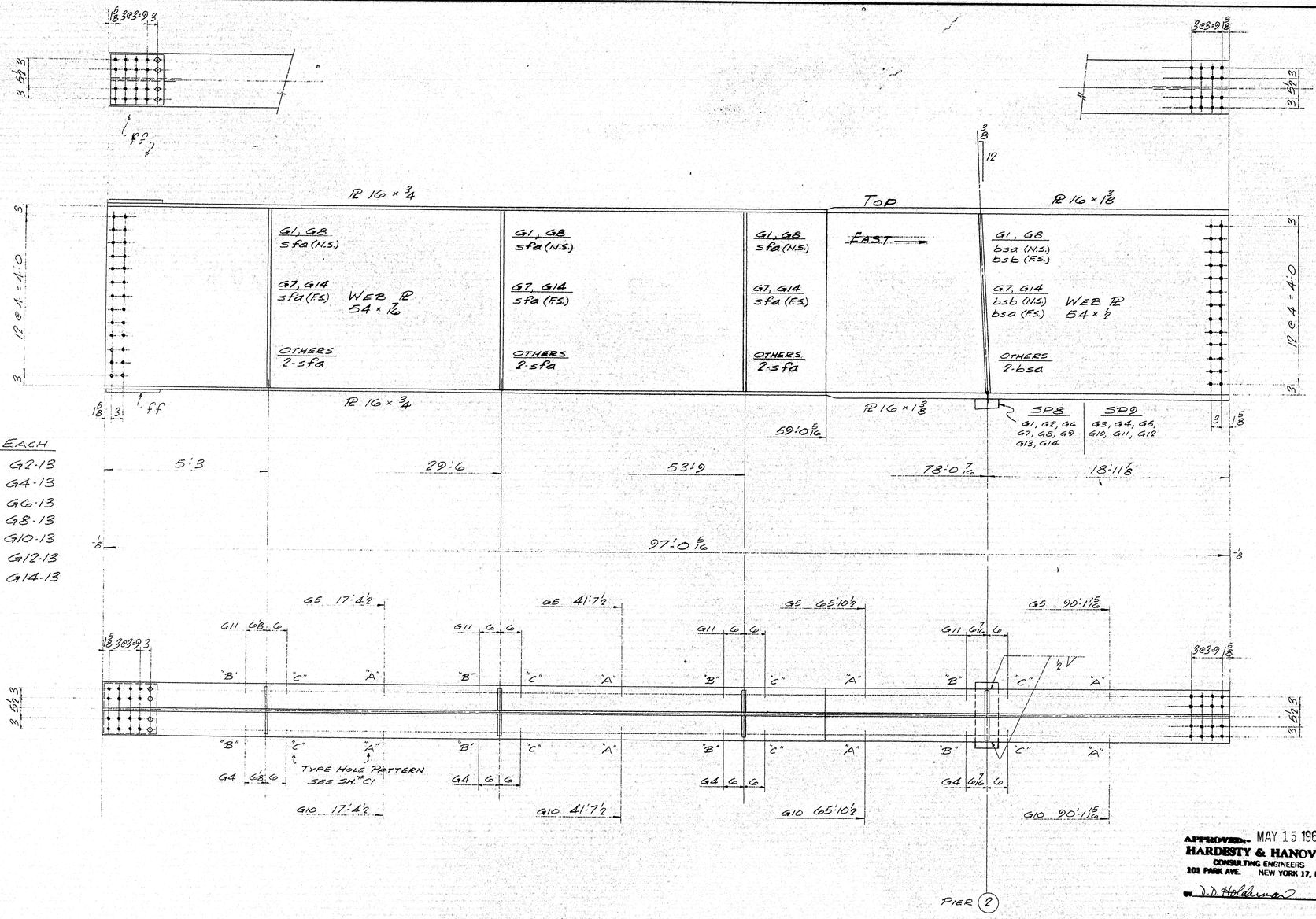
CUSTOMER: CIANCHETTE BROS INC
DESIGNER: HARDESTY & HANOVER

| ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|
| | 69-40 | C12 |

K-E ALBANY N.Y. Made in U.S.A.

186-12

0 1 2 3 4 5 INCHES




ONE EACH

G1-13 G2-13
G3-13 G4-13
G5-13 G6-13
G7-13 G8-13
G9-13 G10-13
G11-13 G12-13
G13-13 G14-13

APPROVED: MAY 15 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY D. D. Holderman

HOLES ARE FOR HIGH TENSILE BOLTS
They are to be free from burrs and shall not be painted on any surface within 2" of such open holes.

| SHIP MARK | NO. | MARK | SHAPE | LENGTH | | WT. | ITEM NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|
| G1-13 | 1 | | | | | | | |
| G2-13 | 1 | | | | | | | |
| G3-13 | 1 | | | | | | | |
| G4-13 | 1 | | | | | | | |
| G5-13 | 1 | | | | | | | |
| G6-13 | 1 | | | | | | | |
| G7-13 | 1 | | | | | | | |
| G8-13 | 1 | | | | | | | |
| G9-13 | 1 | | | | | | | |
| G10-13 | 1 | | | | | | | |
| G11-13 | 1 | | | | | | | |
| G12-13 | 1 | | | | | | | |
| G13-13 | 1 | | | | | | | |
| G14-13 | 1 | | | | | | | |
| | 14 | tf | PL 16 × 1 3/8 | 38 | 0 | | 38 | |
| | 14 | bf | do | 38 | 0 | | 38 | |
| | 14 | tf | PL 16 × 3/4 | 59 | 0 5/16 | | 34 | |
| | 14 | bf | do | 59 | 0 5/16 | | 34 | |
| | 14 | WP | PL 54 × 1/2 | 38 | 0 | | 44 | |
| | 14 | WP | PL 54 × 7/16 | 59 | 0 5/16 | | 46 | |
| | 8 | SP8 | SEE SH "B1 | | | | | |
| | 6 | SP9 | do | | | | | |
| | 94 | bsa | PL 7 1/2 × 3/4 | 4 | 6 | | 11 | (+4) |
| | 4 | bsb | do | 4 | 6 | | 11 | (+4) |
| | 72 | sfa | PL 7 × 1/2 | 4 | 6 | | 12 | |
| | 28 | ff | PL 15 × 7/8 | 1 | 3 | | 72 | |
| | 28 | psa | PL 13 × 3/8 | 4 | 3 1/2 | | 13 | |
| | 28 | psb | PL 15 × 1/2 | 2 | 1 | | 14 | |
| | 56 | psc | PL 6 1/2 × 1/2 | 2 | 1 | | 15 | |

STEEL: ASTM. A-36
WELDING ELECTRODE E70
SHOP CONN: WELDED
FIELD CONN: 7/8" ϕ H.S. BOLTS A-325
HOLES: 15/16" ϕ
PAINT: ONE COAT RED LEAD PER MAINE SPECS.
SPECIAL CLEANING: BLAST CLEAN
APPROVED:

GIRDERS SPAN 13

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-19-69 | 4 |
| DIST. | 5-19-69 | 10 |
| REV. | | |
| CHECKED | [illegible] | 3/17/69 |
| DRAWN | JWF | |

Bancroft & Martin Inc.
South Portland, Maine 04106
JOB: PISCATAQUA RIVER BRIDGE
CUSTOMER: CIANCHETTE BROS INC
DESIGNER: HARDESTY & HANOVER

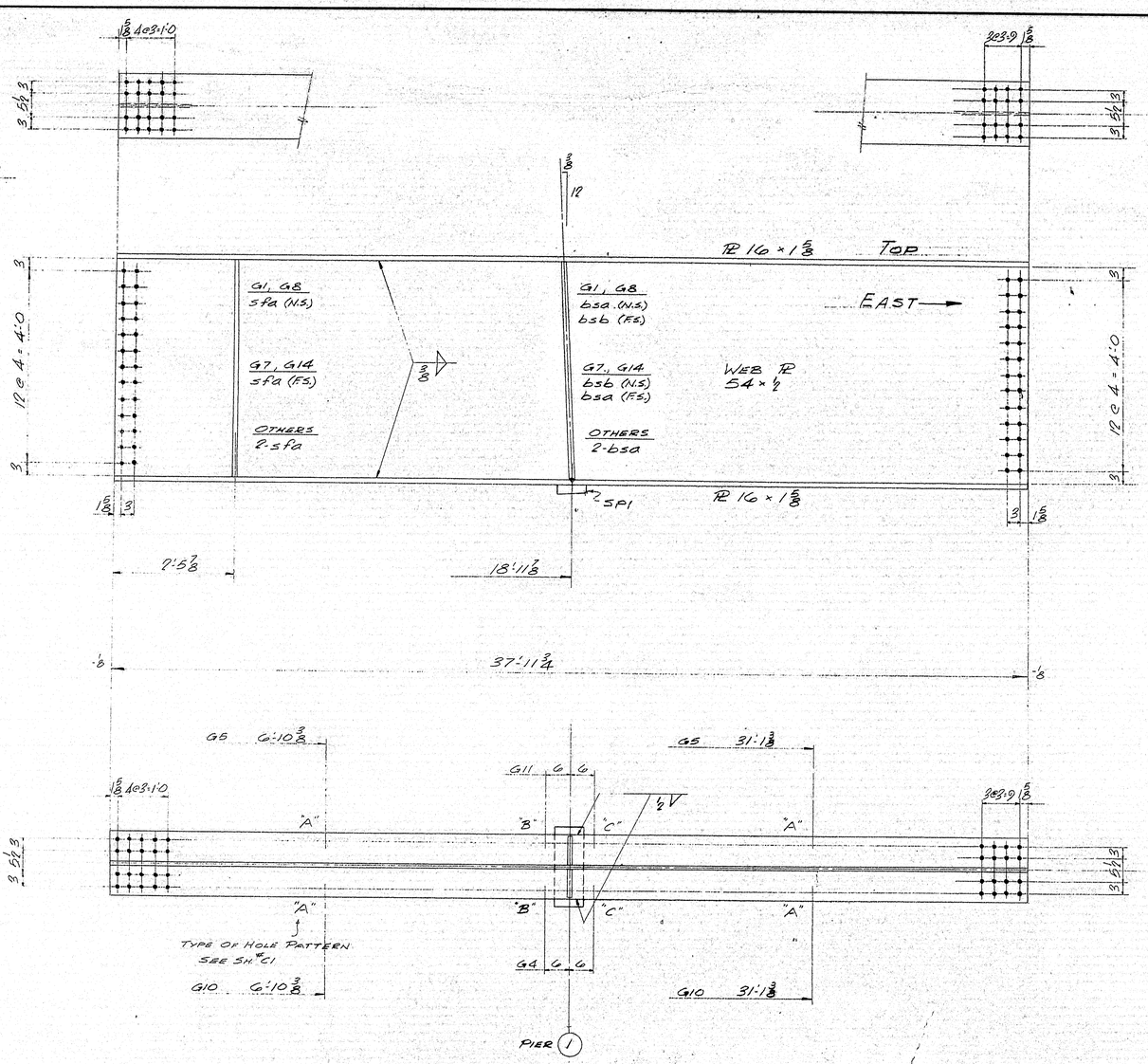
| ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|
| | 69-40 | C13 |

10.6-13

K+E ALBANENE/ID TRACING PAPER

0 1 2 3 4 5 INCHES

NOTE
COAT SPLICE AREAS ON THIS END OF GIRERS WITH RUST INHIBITIVE COATING.




ONE EACH

| | |
|---|---|
| G1-14 | G2-14 |
| G3-14 | G4-14 |
| G5-14 | G6-14 |
| G7-14 | G8-14 |
| G9-14 | G10-14 |
| G11-14 | G12-14 |
| G13-14 | G14-14 |

APPROVED:- MAY 15 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y
BY D. D. Hardesty

HOLES ARE FOR HIGH TENSILE BOLTS
They are to be free from burrs and shall not be painted on any surface within 5" of such open holes.
SEE NOTE

SHIP MARK | BILL OF MATERIAL | JOB NO. 69-40 | DWG. NO. C14

| SHIP MARK | NO. | MARK | SHAPE | LENGTH | | WT. | ITEM NO. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| G1-14 | 1 | | | | | | | | |
| G2-14 | 1 | | | | | | | | |
| G3-14 | 1 | | | | | | | | |
| G4-14 | 1 | | | | | | | | |
| G5-14 | 1 | | | | | | | | |
| G6-14 | 1 | | | | | | | | |
| G7-14 | 1 | | | | | | | | |
| G8-14 | 1 | | | | | | | | |
| G9-14 | 1 | | | | | | | | |
| G10-14 | 1 | | | | | | | | |
| G11-14 | 1 | | | | | | | | |
| G12-14 | 1 | | | | | | | | |
| G13-14 | 1 | | | | | | | | |
| G14-14 | 1 | | | | | | | | |
| | 14 | tf | PL 16 × 1⅝ | 37 | 11¾ | | 39 | | |
| | 14 | bf | do | 37 | 11¾ | | 39 | | |
| | 14 | WP | PL 54 × ½ | 37 | 11¾ | | 44 | | |
| | 14 | SPI | SEE SH "B1" | | | | | | |
| | 24 | bsa | PL 7½ × 3/8 | 4 | 6 | | 11 | | (+4) |
| | 4 | bsb | do | 4 | 6 | | 11 | | (+4) |
| | 24 | sfa | PL 7 × ½ | 4 | 6 | | 12 | | |
| | 28 | psa | PL 13 × 3/8 | 4 | 3½ | | 13 | | |
| | 28 | psb | PL 15 × ½ | 2 | 1 | | 14 | | |
| | 56 | psc | PL 6½ × ½ | 2 | 1 | | 15 | | |

STEEL: ASTM. A-36
WELDING ELECTRODE E70
SHOP CONN: WELDED
FIELD CONN: ⅞" H.S. BOLTS A 325
HOLES: 15/16"
PAINT: ONE COAT RED LEAD PER MAINE SPECS.
SPECIAL CLEANING: BLAST CLEAN
APPROVED:

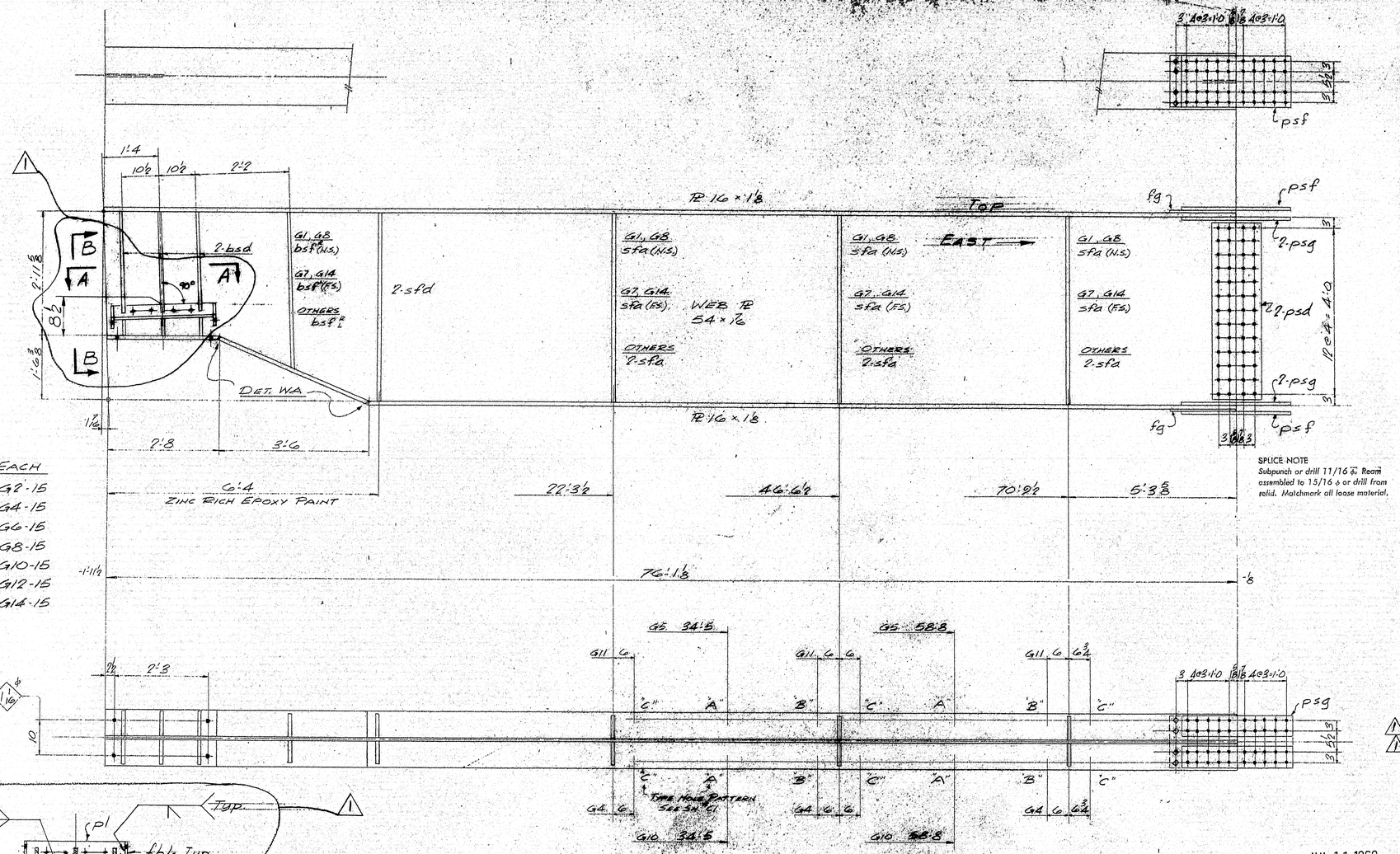
GIRDERS SPAN 14

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-19-69 | 4 |
| DIST. | 5-19-69 | 10 |
| REV. | | |
| CHECKED | dDm2 | 3/17/69 |
| DRAWN | JWF | |

Bancroft & Martin Inc.
South Portland, Maine 04106
JOB: PISCATAQUA RIVER BRIDGE
CUSTOMER: CIANCHETTE BROS INC.
DESIGNER: HARDESTY & HANOVER

| ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|
| | 69-40 | C14 |

106-14




ONE EACH

G1-15 G2-15
G3-15 G4-15
G5-15 G6-15
G7-15 G8-15
G9-15 G10-15
G11-15 G12-15
G13-15 G14-15

SPLICE NOTE
Subpunch or drill 11/16 ø. Ream assembled to 15/16 ø or drill from solid. Matchmark all loose material.

APPROVED:- JUL 11 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y
BY D.D. Holdeman

HOLES ARE FOR HIGH TENSILE BOLTS
They are to be free from burrs and shall not be painted on any surface within 5" of such open holes.

AREAS PAINTED WITH ZINC RICH EPOXY TO BE FULLY PAINTED.
ALL OTHER AREAS WITH OPEN HOLES TO BE COATED WITH RUST INHIBITIVE COATING.

| SHIP MARK | NO. | MARK | SHAPE | LENGTH | | WT. | ITEM NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|
| G1-15 | 1 | | | | | | | |
| G2-15 | 1 | | | | | | | |
| G3-15 | 1 | | | | | | | |
| G4-15 | 1 | | | | | | | |
| G5-15 | 1 | | | | | | | |
| G6-15 | 1 | | | | | | | |
| G7-15 | 1 | | | | | | | |
| G8-15 | 1 | | | | | | | |
| G9-15 | 1 | | | | | | | |
| G10-15 | 1 | | | | | | | |
| G11-15 | 1 | | | | | | | |
| G12-15 | 1 | | | | | | | |
| G13-15 | 1 | | | | | | | |
| G14-15 | 1 | | | | | | | |
| | 14 | tf | PL 16 × 1⅛ | 76 | 2 9/16 | | 40 | |
| | 14 | bf | do | 69 | 11⅛ | | 41 | |
| | 14 | bf | do | 3 | 9⅞ | | 42 | |
| | 14 | bf | do | 7 | 8 | | 42 | |
| | 14 | WP | PL 54 × 7/16 | 76 | 2 9/16 | | 46 | |
| | 84 | bsd | PL 7½ × ¾ | 2 | 11⅝ | | 11 | (+4) |
| | 24 | bsf^P | do | 3 | 8⅝ | | 11 | (+4) |
| | 72 | sfa | PL 7 × ½ | 4 | 6 | | 12 | |
| | 28 | sfd | do | | | | 12 | |
| | 28 | psd | PL 13 × ⅜ | 4 | 3½ | | 13 | |
| | 28 | psf | PL 15 × ¾ | 7 | 7 | | 16 | |
| | 56 | psg | PL 6½ × ¾ | 7 | 7 | | 17 | |
| | 28 | fg | PL 15 × ½ | 1 | 6 | | 73 | |
| 1 | 56 | fbl | Bar 5 × ⅜ | 0 | 9⅞ | | | A242 |
| 1 | 28 | pl | PL 9 × ⅜ | 2 | 5 | | | A242 |

STEEL: ASTM. A-36 UN. NOTED.
WELDING ELECTRODE E70
SHOP CONN: WELDED
FIELD CONN: ⅞" H.S. BOLTS A-325
HOLES: 15/16 ø
PAINT: ONE COAT RED LEAD PER MAINE SPECS
SPECIAL CLEANING: BLAST CLEAN
APPROVED:

GIRDERS - SPAN 15.

| PRINT DIST. | | |
|---|---|---|
| FAB. | 5-19-69 | 4 |
| DIST | 5-19-69 | 10 |
| DIST | 7-22-69 | 10 |

Bancroft & Martin Inc.
South Portland, Maine 04106

JOB: PISCATAQUA RIVER BRIDGE
Project No. I-95-1 (22) 16
Contract No. 2, Maine Approach
Structural Steel

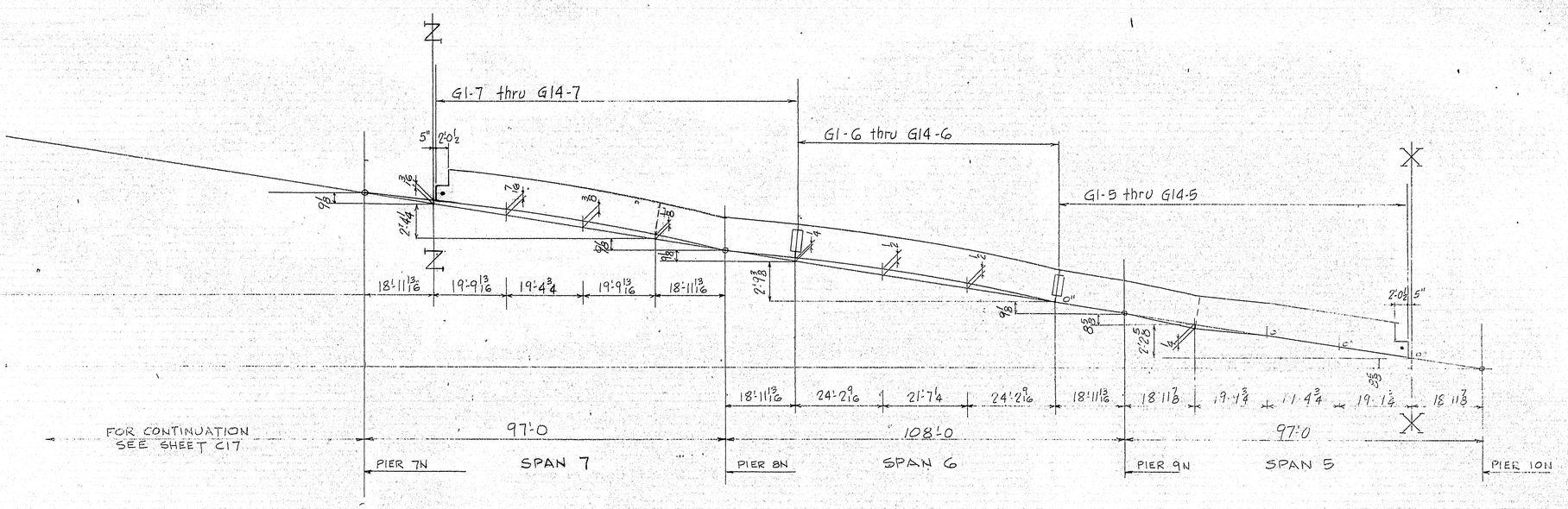
CUSTOMER: CIANCHETTE BROS INC
DESIGNER: HARDESTY & HANOVER

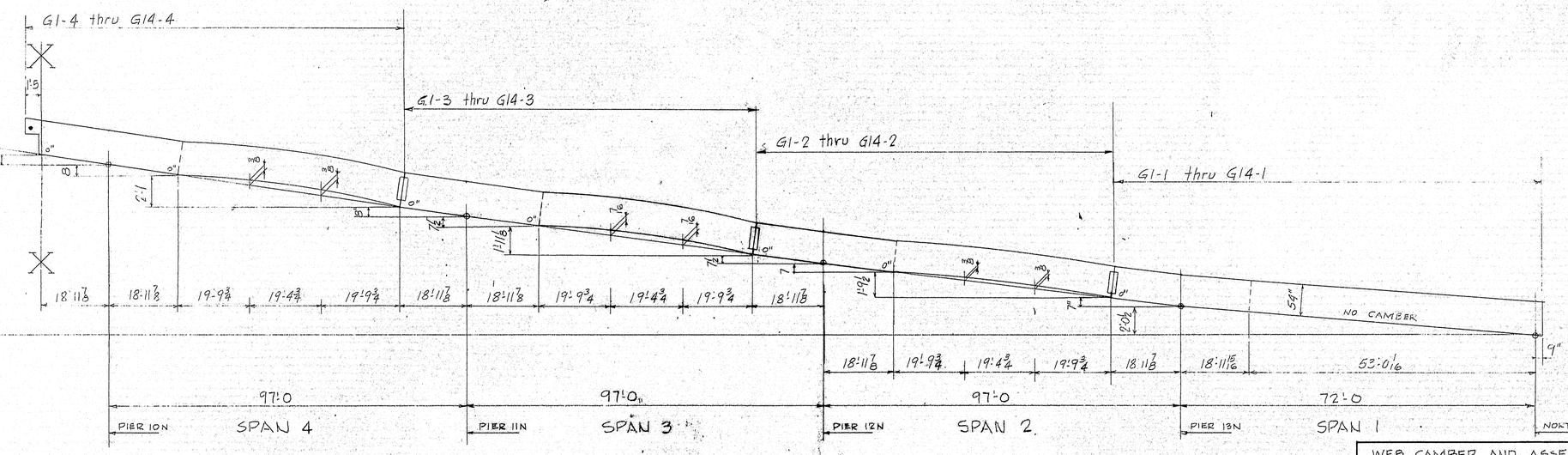
| | | | |
|---|---|---|---|
| REV. | JPE | 7-9-69 | ORDER NO. |
| CHECKED | WHM | 6/16/69 | |
| DRAWN | WHM | | |

JOB NO. 69-40
DRAWING NO. G16

A

K&E ALBANENE TRACING PAPER




APPROVED: MAY 15 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY D. D. Hardesty

**SPLICE NOTE**
Subpunch or drill 11/16 ϕ, Ream assembled to 15/16 ϕ or drill from solid. Matchmark all loose material

NOTES
ALL DIMENSIONS ARE TO BOTTOM OF WEB PLATE
CAMBERS ARE SHOWN AS OFFSETS FROM CHORD LINES BETWEEN PIERS.

FIELD SPLICE SHOWN

SHOP SPLICE SHOWN

WEB CAMBER AND ASSEMBLY DIAGRAM

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-19-69 | 4 |
| DIST. | 5-19-69 | 10 |

Bancroft & Martin Inc.
South Portland, Maine 04106

JOB: PISCATAQUA RIVER BRIDGE
Project No. I-95-1(22)15
Contract No. 2, Maine Approach
Structural Steel

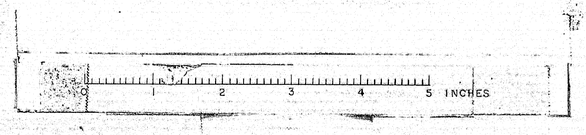
CUSTOMER: CIANCHETTE BROS. INC.

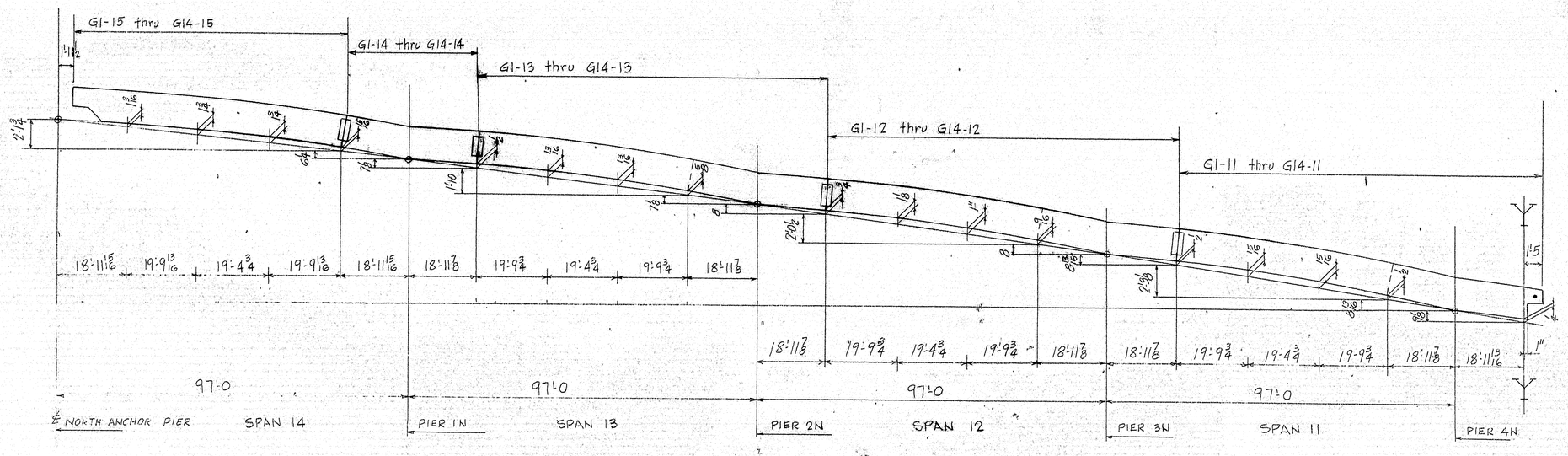
DESIGNER: HARDESTY & HANOVER

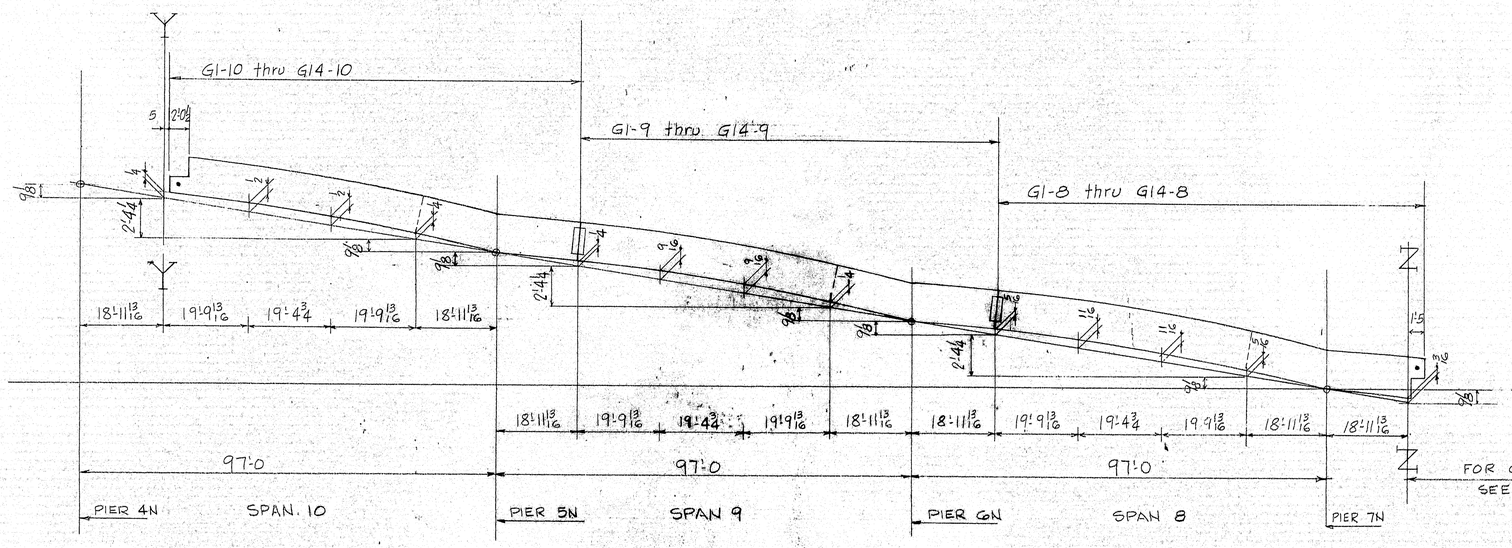
| REV. | | |
|---|---|---|
| CHECKED | E | |
| DRAWN | CEB | |

| ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|
| | 69-40 | C16 |

106-16






SPLICE NOTE
Subpunch or drill 11/16 ø. Ream assembled to 15/16 ø or drill from solid. Matchmark all loose material

SEE SHEET C1G FOR NOTES

MAY 15 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY D.D. Hollenback

# WEB CAMBER AND ASSEMBLY DIAGRAM

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-19-69 | 4 |
| DIST | 5-19-69 | 10 |
| REV. | | |
| CHECKED | E | |
| DRAWN | CEB | |

Bancroft & Martin Inc.
South Portland, Maine 04106

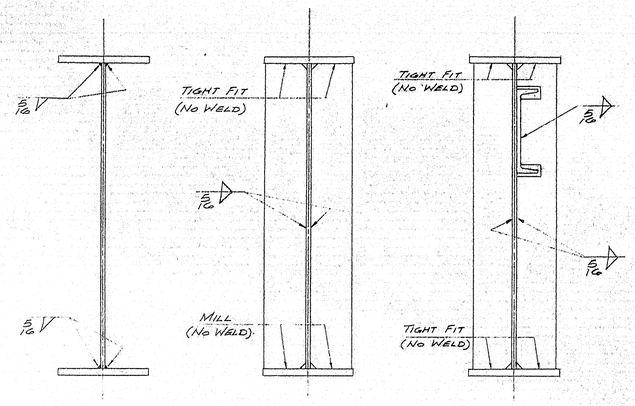
JOB: PISCATAQUA RIVER BRIDGE
Project No. 1-95-1 (22) 16
Contract No. 2, Maine Approach
Structural Steel

CUSTOMER: CIANCHETTE BROS. INC.
DESIGNER: HARDESTY & HANOVER

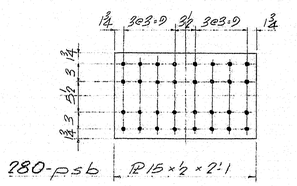
| ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|
| | 69-40 | C17 |

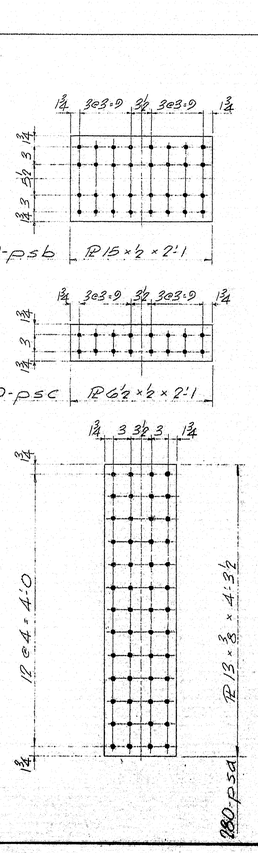
166-17

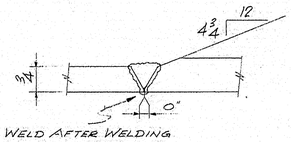
K+E ALBANY N.Y. MADE IN U.S.A.



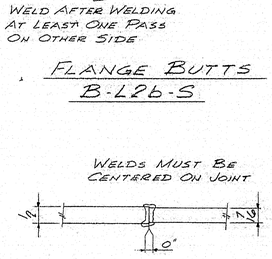

TYPICAL GIRDER WELD DETAILS




FLANGE BUTTS
B-L2b-S

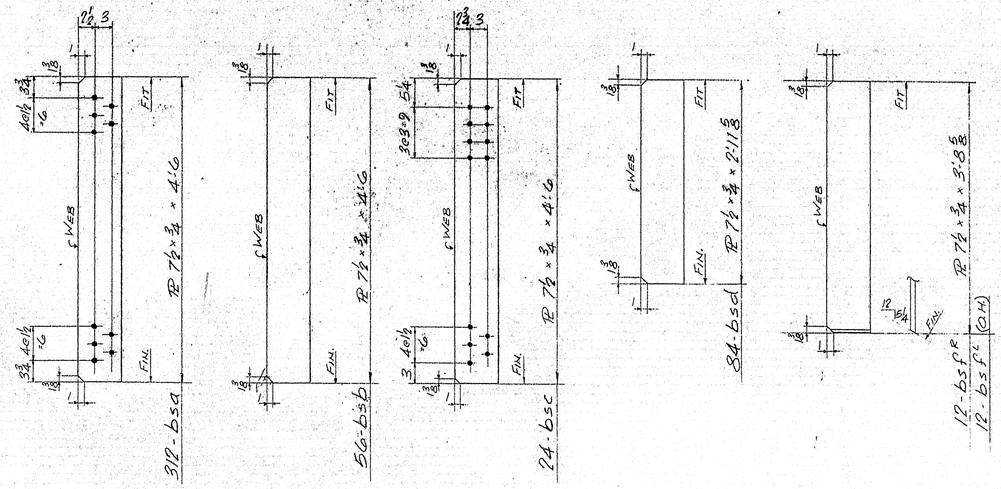


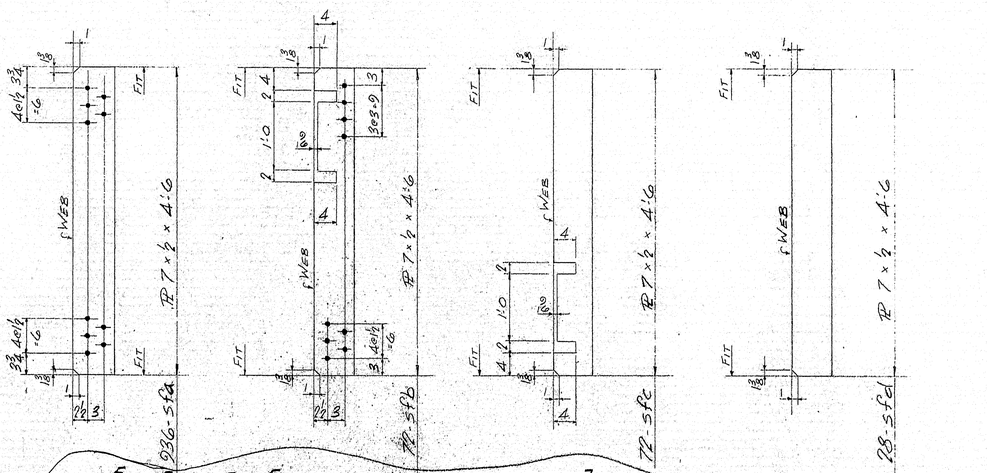

WEB BUTTS
B-L1-S

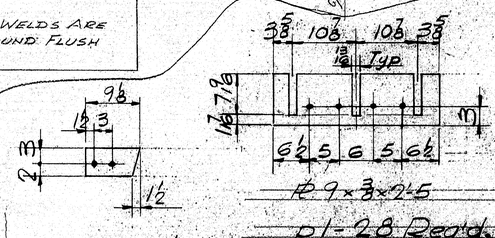
NOTE
ALL BUTT WELDS ARE
TO BE GROUND FLUSH

**SPLICE NOTE**
*Subpunch or drill 11/16 ϕ. Ream assembled to 15/16 ϕ or drill from solid. Matchmark all loose material.*

SHIP WITH GIRDERS.
(PSA, PSB, PSC)

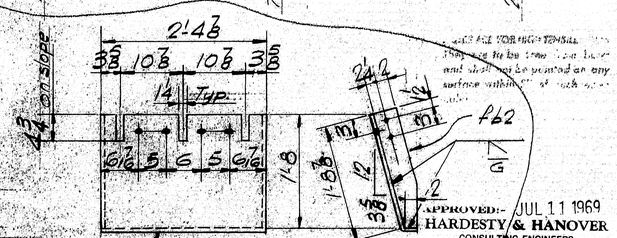









| SHIP MARK | NO. | MARK | SHAPE | LENGTH | | WT. | ITEM NO. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| ⚠1 HI | 28 | | PL 22⅞ × ⅜ | 7 | 4⅜ | | 7:47 | | A-242 BRG CANOPY |
| ⚠1 | 56 | fb2 | Bar 44 × ⅜ | 1 | 9⅝ | | | | A 242 |

HOLES ARE FOR HIGH TENSILE BOLTS
They are to be free from burrs and shall not be painted on any surface within 5" of such open holes.

STEEL: ASTM. A-36 UN NOTED
WELDING ELECTRODE E70
SHOP CONN: WELDED
FIELD CONN: ⅞" ϕ H.S. BOLTS A-325
HOLES: 15/16" ϕ
PAINT: ONE COAT RED LEAD PER MAINE SPECS
SPECIAL CLEANING: BLAST CLEAN
APPROVED:

DETAILS

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-20-69 | 4 |
| DST | 5-20-69 | 10 |
| DIST | 7-28-69 | 10 |

Bancroft & Martin Inc.
South Portland, Maine 04106

JOB: PISCATAQUA RIVER BRIDGE
Project No. I-95-1 (22) 16
Contract No. 2, Maine Approach
Structural Steel

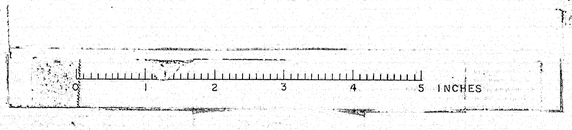
CUSTOMER: CIANCHETTE BROS INC.
DESIGNER: HARDESTY & HANOVER.

| REV. | J.P.F. | 7-3-69 |
|---|---|---|
| CHECKED | J.M.B. | 3/17/69 |
| DRAWN | J.W.F. | |

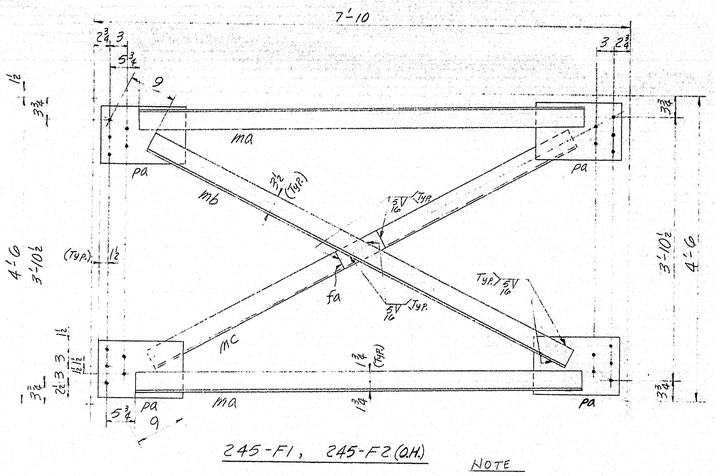
ORDER NO. | JOB NO. 69-40 | DRAWING NO. C18

APPROVED:- JUL 11 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY D.D. Hardesty

HOLES ARE FOR HIGH TENSILE BOLTS
They are to be free from burrs and shall not be painted on any surface within 5" of such open holes.



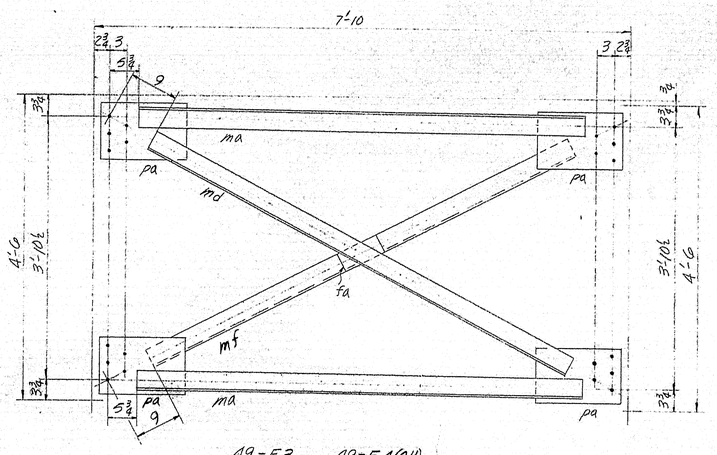

106-18




245-F1, 245-F2(O.H.)

10-F1A, 10-F2A(O.H.)

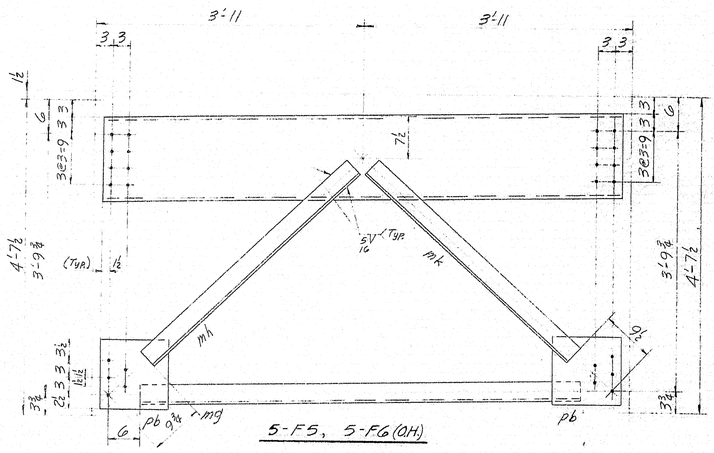
NOTE
F1A, F2A, COAT UNPAINTED AREAS WITH RUST INHIBITING COMPOUND



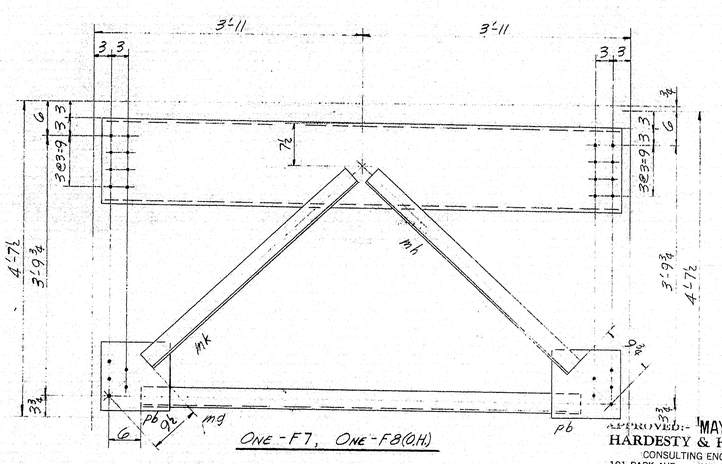

49-F3, 49-F4(O.H.)

2-F3A, 2-F4A(O.H.)

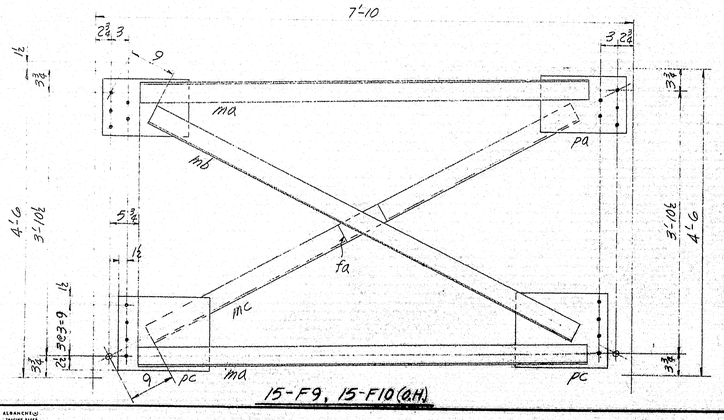
NOTE
F3A, F4A, COAT UNPAINTED AREAS WITH RUST INHIBITING COMPOUND.



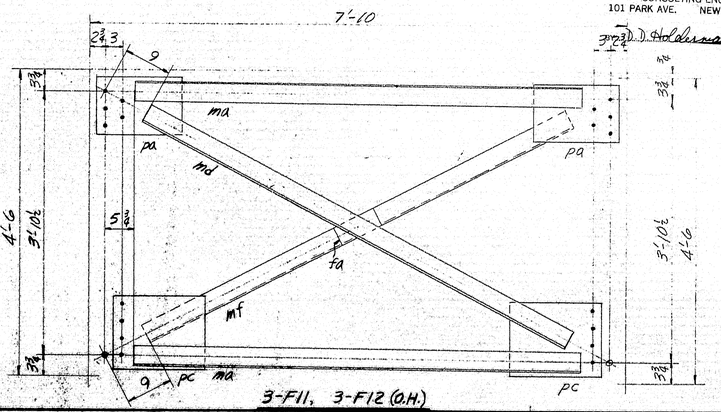

5-F5, 5-F6(O.H.)




ONE-F7, ONE-F8(O.H.)




15-F9, 15-F10(O.H.)




3-F11, 3-F12(O.H.)

APPROVED: MAY 19 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.

| SHIP MARK | NO. | MARK | SHAPE | LENGTH | WT. | ITEM NO. | REMARKS |
|---|---|---|---|---|---|---|---|
| F1 | 245 | | | | | | |
| F1A | 10 | | | | | | |
| F2 | 245 | | | | | | |
| F2A | 10 | | | | | | |
| | 2040 | pa | PL 10 × ½ | 1 3 | | 4C | |
| | 1020 | ma | L 4 × 3½ × ⅜ | 6 5 | | 1C | |
| | 510 | mb | OO | 6 9½ | | 2C | |
| | 510 | mc | OO | 6 10½ | | 2C | |
| | 510 | fa | FL. 3½ × ½ | 8 | | 3C | |
| F9 | 15 | | | | | | PAINT ONE COAT ZINC RICH EPOXY |
| F10 | 15 | | | | | | |
| | 60 | pa | | | | | |
| | 60 | pc | PL 13 × ½ | 1 4 | | | |
| | 60 | ma | | | | | |
| | 30 | mb | | | | | |
| | 30 | mc | | | | | |
| | 30 | fa | | | | | |
| F3 | 49 | | | | | | |
| F3A | 2 | | | | | | |
| F4 | 49 | | | | | | |
| F4A | 2 | | | | | | |
| | 408 | pa | | | | | |
| | 204 | ma | | | | | |
| | 102 | md | L 4 × 3½ × ⅜ | 6 10 | | 2C | |
| | 102 | mf | OO | 6 9¼ | | 2C | |
| | 102 | fa | | | | | |
| F11 | 3 | | | | | | PAINT ONE COAT ZINC RICH EPOXY |
| F12 | 3 | | | | | | |
| | 12 | pa | | | | | |
| | 12 | pc | | | | | |
| | 12 | ma | | | | | |
| | 6 | md | | | | | |
| | 6 | mf | | | | | |
| | 6 | fa | | | | | |
| F5 | 5 | | | | | | |
| F6 | 5 | | | | | | |
| | 10 | | 15 WF 33.9 | 7 7 | | 5C | |
| | 20 | pb | PL 12 × ⅜ | 1 0 | | 7C | |
| | 10 | mg | L 4 × 3½ × ⅜ | 6 4 | | 6C | |
| | 10 | mh | OO | 4 1 | | 7C | |
| | 10 | mk | OO | 4 0 | | 7C | |
| F7 | 1 | | | | | | |
| F8 | 1 | | | | | | |
| | 2 | | 15 WF 33.9 | 7 7 | | 5C | |
| | 4 | pb | | | | | |
| | 2 | mg | | | | | |
| | 2 | mh | | | | | |
| | 2 | mk | | | | | |

STEEL: ASTM. A36
WELDING ELECTRODE E70xx
SHOP CONN: WELDED
FIELD CONN: ⅞" H.S. BOLTS
HOLES: 13/16 ϕ
PAINT: ONE SHOP COAT EXCEPT AS NOTED
SPECIAL CLEANING: BLAST CLEAN ALL STEEL
APPROVED:

**HOLES ARE FOR HIGH TENSILE BOLTS**
**They are to be free from burrs and shall not be painted on any surface within 5" of such open holes.**
(FIELD BOLTED AREAS OF ZINC COATED ITEMS ARE TO BE PAINTED.)

CROSS FRAMES

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-20-69 | 4 |
| DIST | 5-20-69 | 10 |
| REV. | | |
| CHECKED | | |
| DRAWN | SLD | |

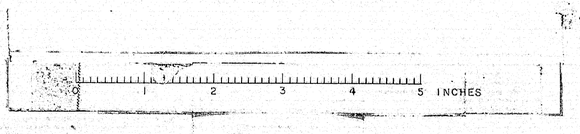
Bancroft & Martin Inc.
South Portland, Maine 04106

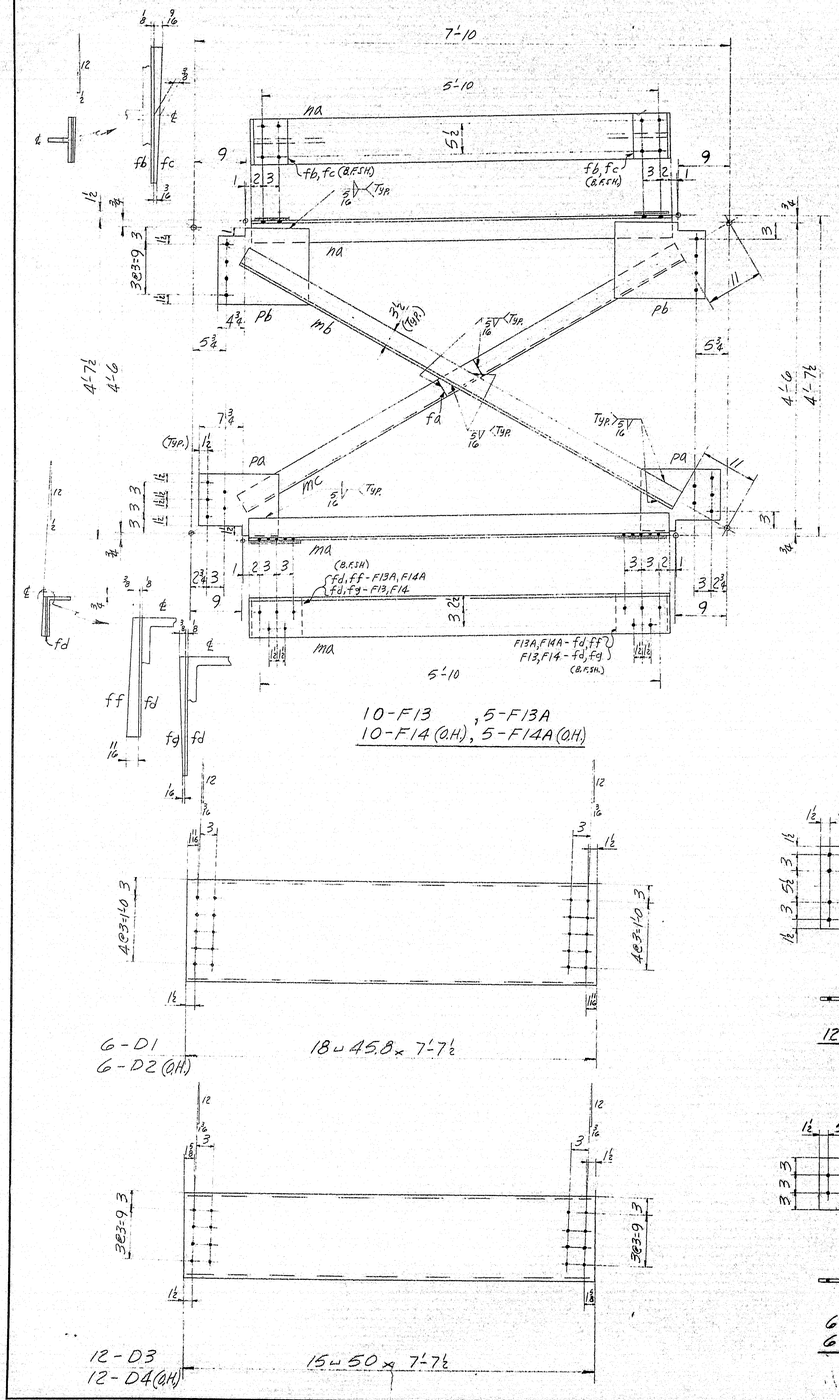
JOB: PISCATAQUA RIVER BRIDGE
Project No. I-95-1 (22) 16
Contract No. 2, Maine Approach
Structural Steel

CUSTOMER: CIANCHETTE BROS., INC.
DESIGNER: HARDESTY & HANOVER

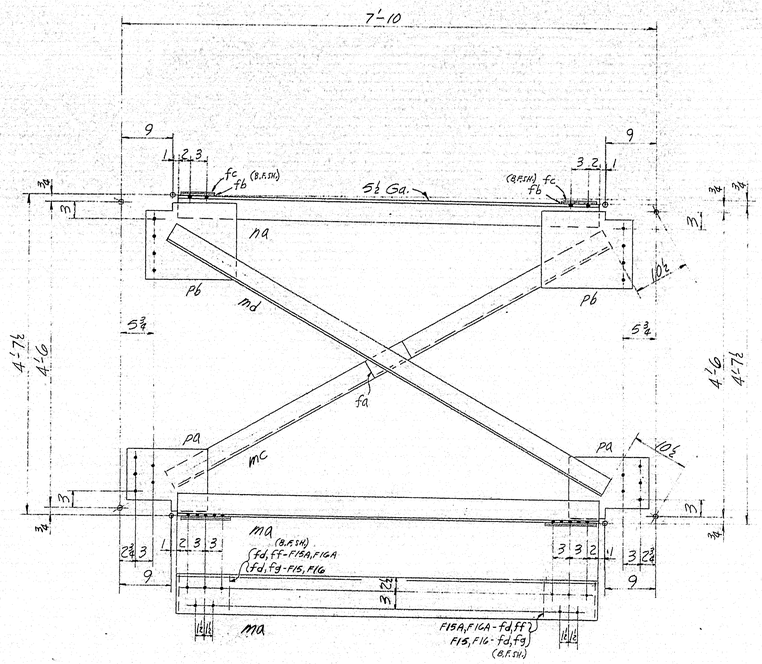
| ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|
| | 69-40 | F1 |

106-69



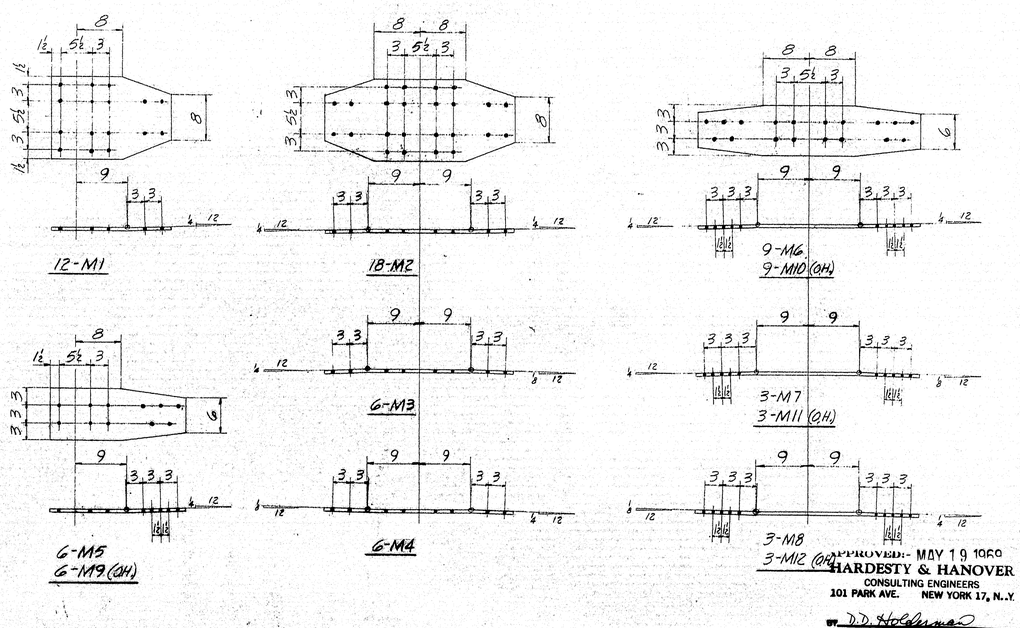



10-F13 , 5-F13A
10-F14 (O.H.), 5-F14A (O.H.)




2-F15 , ONE-F15A
2-F16 (O.H.), ONE-F16A(O.H.)




APPROVED:- MAY 19 1970
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY D.D. Holdsman

| SHIP MARK | NO. | MARK | SHAPE | LENGTH | | WT. | ITEM NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|
| F13 | 10 | | | | | | | PAINT ONE COAT |
| F13A | 5 | | | | | | | ZINC RICH EPOXY |
| F14 | 10 | | | | | | | |
| F14A | 5 | | | | | | | |
| | 60 | pa | PL 10½ x ½ | 1 | 2 | | 4C | |
| | 60 | pb | PL 13 x ½ | 1 | 4 | | 13C | |
| | 30 | ma | ST 4WF17.5 | 6 | 2 | | 9C | |
| | 30 | ma | L 7 x 4 x ½ | 6 | 2 | | 11C | |
| | 30 | mb | L 4 x 3½ x ⅜ | 7 | 1½ | | 10C | |
| | 30 | mc | DO | 7 | 3 | | 10C | |
| | 30 | fa | FL. 3½ x ½ | | 7 | | 12C | |
| | | | | | | | | |
| | | | | | | | | |
| F15 | 2 | | | | | | | |
| F15A | 1 | | | | | | | |
| F16 | 2 | | | | | | | |
| F16A | 1 | | | | | | | |
| | 12 | pa | | | | | | |
| | 12 | pb | | | | | | |
| | 6 | na | | | | | 9C | |
| | 6 | ma | | | | | 11C | |
| | 6 | mc | | | | | 13C | |
| | 6 | md | L 4 x 3½ x ⅜ | 7 | 3¾ | | 10C | |
| | 6 | fa | | | | | | |
| | | | | | | | | |
| M1 | 12 | | PL 14½ x ½ | 1 | 9 | | 15C | |
| M2 | 18 | | DO | 2 | 9 | | 14C | |
| M3 | 6 | | DO | 2 | 9 | | 14C | |
| M4 | 6 | | DO | 2 | 9 | | 14C | |
| M5 | 6 | | PL 9 x ½ | 2 | 0 | | 17C | |
| M9 | 6 | | DO | 2 | 0 | | 17C | |
| M6 | 9 | | DO | 3 | 3 | | 16C | |
| M10 | 9 | | DO | 3 | 3 | | | |
| M7 | 3 | | DO | 3 | 3 | | | |
| M11 | 3 | | DO | 3 | 3 | | | |
| M8 | 3 | | DO | 3 | 3 | | | |
| M12 | 3 | | DO | 3 | 3 | | ↓ | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| D1 | 6 | | 18 ∪ 45.8 | 1 | 7½ | | 18C | |
| D2 | 6 | | DO | 7 | 7½ | | | |
| | | | | | | | | |
| D3 | 12 | | 15 ∪ 50 | 7 | 7½ | | 19C | |
| D4 | 12 | | DO | 7 | 7½ | | 19C | ↓ |
| | | | | | | | | |
| | 72 | fb | FL. 6 x ⅜ | | 8 | | | ZINC RICH EPOXY |
| | 72 | fc | FL. 6 x 1⅛ | | 8 | | | BEVEL |
| | 72 | fd | FL. 7 x ⅜ | | 9 | | | |
| | 24 | ff | FL. 7 x 11/16 | | 9 | | | DO |
| | 48 | fg | FL. 7 x ⅜ | | 9 | | | DO |

STEEL: ASTM. A36
WELDING ELECTRODE E70xx
SHOP CONN: WELDED
FIELD CONN: ⅞ ϕ H.S. BOLTS
HOLES: 1⅛ ϕ
PAINT: ONE SHOP COAT EXCEPT AS NOTED
SPECIAL CLEANING: BLAST CLEAN ALL STEEL
APPROVED:

HOLES ARE FOR HIGH TENSILE BOLTS They are to be free from burrs and shall not be painted on any surface within 5" of such open holes. (FIELD BOLTED FACETS OF ZINC COATED ITEMS ARE TO BE PAINTED.)

CROSS FRAMES & DIAPHRAGMS

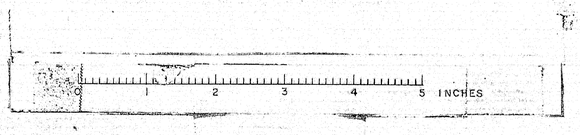
| PRINT DIST. | | |
|---|---|---|
| FAB | 5-20-69 | 4 |
| DIST | 5-20-69 | 10 |

Bancroft & Martin Inc.
South Portland, Maine 04106

JOB: PISCATAQUA RIVER BRIDGE
Project No. I-95 1 (22) 16
Contract No. 2, Maine Approach
Structural Steel

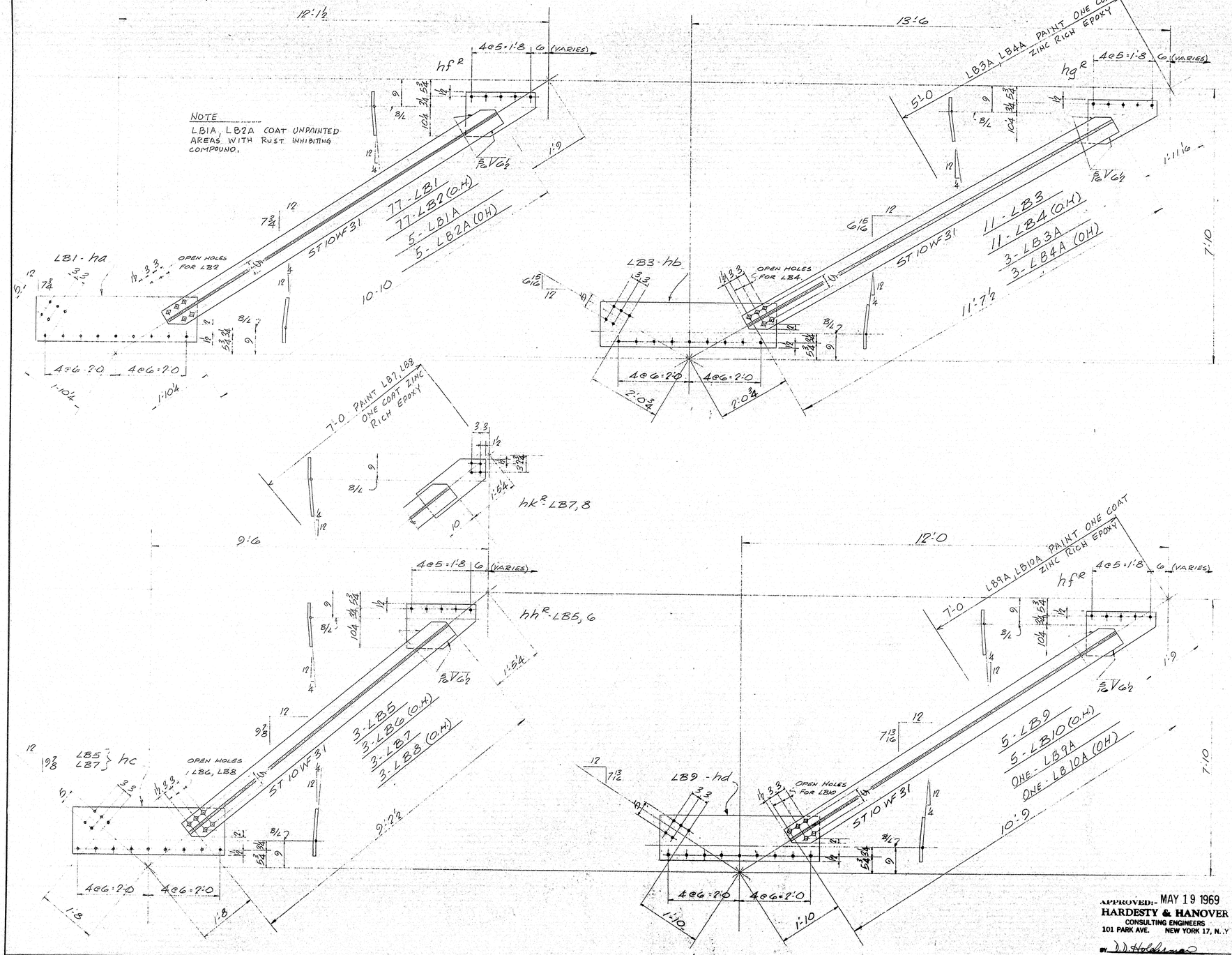
CUSTOMER: CIANCHETTE BROS., INC.
DESIGNER: HARDESTY & HANOVER

| REV. | | | ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|---|---|---|
| CHECKED | | | | | |
| DRAWN | | SLO | | 69-40 | F2 |




K+E ALBANY/USA TRACING PAPER

206-20




| SHIP | BILL OF MATERIAL | | | JOB NO. 69-40 | | DWG. NO. G1 | |
|---|---|---|---|---|---|---|---|
| MARK | NO. | MARK | SHAPE | LENGTH | WT. | ITEM NO. | REMARKS |
| LB1 | 77 | | ST 10 WF 31 | 10 11½ | | 9.106 | |
| LB2 | 77 | | do | 10 11½ | | do | |
| LB3 | 11 | | do | 11 9 | | do | |
| LB4 | 11 | | do | 11 9 | | do | |
| LB5 | 3 | | do | 9 4 | | do | |
| LB6 | 3 | | do | 9 4 | | do | |
| LB7 | 3 | | do | 9 4 | | do | |
| LB8 | 3 | | do | 9 4 | | do | |
| LB9 | 5 | | do | 10 10½ | | do | |
| LB10 | 5 | | do | 10 10½ | | do | |
| LB3A | 3 | | do | 11 9 | | do | |
| LB4A | 3 | | do | 11 9 | | do | |
| LB9A | 1 | | do | 10 10½ | | do | |
| LB10A | 1 | | do | 10 10½ | | do | |
| LB1A | 1 | | do | 10 11½ | | do | |
| LB2A | 1 | | do | 10 11½ | | do | |
| | 82 | ha | PL 15½ × ⅝ | 4 6½ | | | TEMPLATE |
| | 14 | hb | do | 5 0 | | | do |
| | 6 | hc | PL 16 × ⅝ | 4 3 | | | do |
| | 6 | hd | PL 15½ × ⅝ | 4 6 | | | do |
| | 176 | hf^R_L | PL 15 × ⅝ | 1 11 | | | do |
| | 98 | hg^R_L | do | 1 11 | | | do |
| | 6 | hh^R_L | do | 1 11 | | | do |
| | 6 | hk^R_L | PL 10 × ⅝ | 9 9 | | | do |
| | 540 | SHOP | ⅞ H.S. BOLT | | 9¾ | | |

STEEL: ASTM. A 36
WELDING ELECTRODE E70
SHOP CONN: WELD OR ⅞" H.S. BOLTS
FIELD CONN: ⅞" H.S. BOLTS A-325
HOLES: 15/16"
PAINT: ONE COAT RED LEAD PER MAINE SPECS
SPECIAL CLEANING: BLAST CLEAN
APPROVED:

**HOLES ARE FOR HIGH TENSILE BOLTS** They are to be free from burrs and shall not be painted on any surface within 5" of each open holes. (FIELD BOLTED ASSEMBLY OF ZINC COATED ITEMS ARE TO BE PAINTED)

LATERAL BRACING

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-20-69 | 4 |
| DIST | 5-20-69 | 10 |

REV.
CHECKED E
DRAWN JWF

Bancroft & Martin Inc.
South Portland, Maine 04106

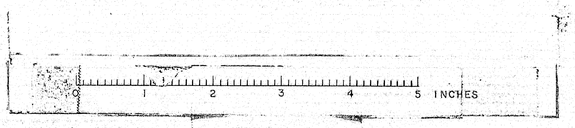
JOB: PISCATAQUA RIVER BRIDGE
Project No. I-95-1 (22) 16
Contract No. 2, Maine Approach
Structural Steel

CUSTOMER: CIANCHETTE BROS. INC
DESIGNER: HARDESTY & HANOVER

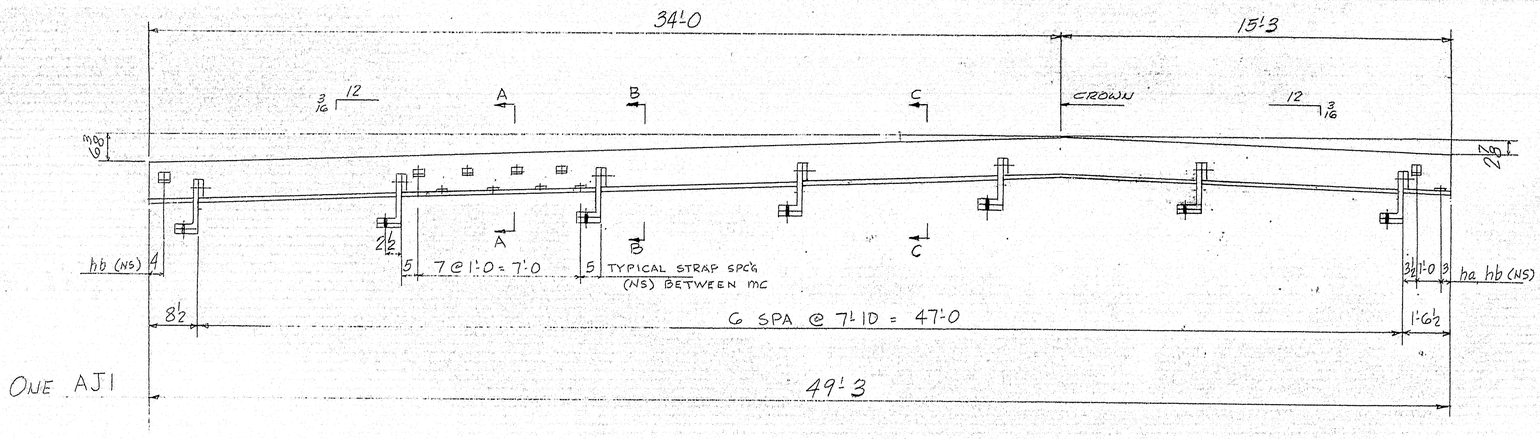
| ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|
| | 69-40 | G1 |

APPROVED:- MAY 19 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY D. D. Hardesty

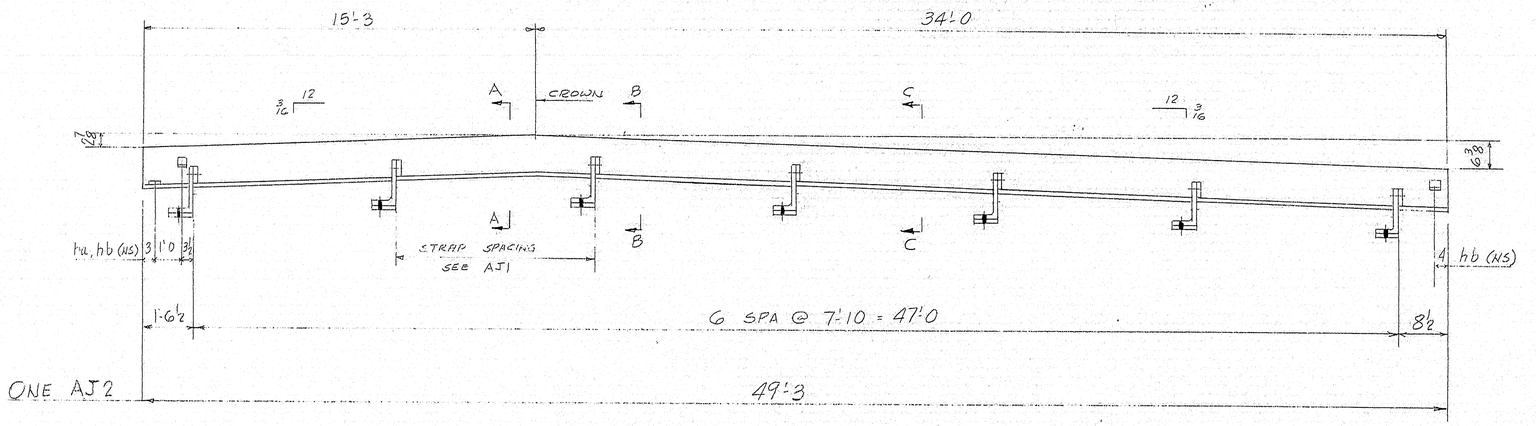
K+E ELEPHANTIDE TRACING PAPER



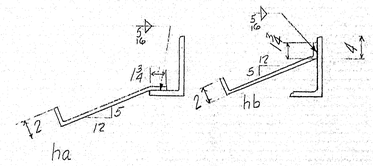

122-21



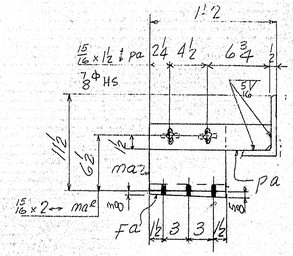

ONE AJ1



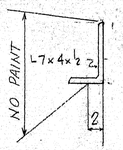

ONE AJ2




SECT. A-A




SECT. B-B




SECT. C-C

| SHIP MARK | NO. | MARK | SHAPE | LENGTH | WT. | ITEM NO. | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | 1-AJ1 | 1-AJ2 | | | |
| | 2 | | L 7 x 4 x ½ | 49 3¾± | | 54 | A242 |
| | 14 | ma | L 8 x 4 x ½ | 9 | | 56 | |
| | 14 | pa | Fl 3 x ½ | 1 1½ | | | |
| | 14 | fa | Fl 4 x 5/8 | 9 | | | BEVEL |
| | 28 | SHOP | 7/8φ HS | 2¼ | | | |
| | 50 | ha | Fl 2½ x 3/8 | 1 3 | | 55 | |
| | 52 | hb | Do | 1 3 | | 55 | |

STEEL: ASTM. A36 UNLESS NOTED IN BILL
WELDING ELECTRODE E70 SEE WELDING PROCEDURE
SHOP CONN: WELDED
FIELD CONN: 7/8φ HS BOLTS
HOLES: 15/16φ U.N.
PAINT: ONE COAT ZINC RICH EPOXY
SPECIAL CLEANING: BLAST CLEAN ALL STEEL
APPROVED:

APPROVED:- MAY 19 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY D.D. Holdsworth

ARMOR JOINT AT ABUTMENT

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-20-69 | 4 |
| DIST | 5-20-69 | 10 |

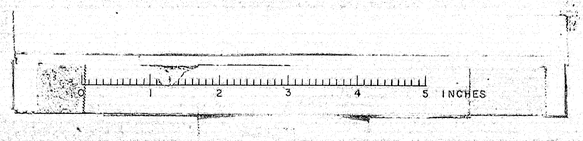
Bancroft & Martin Inc.
South Portland, Maine 04106

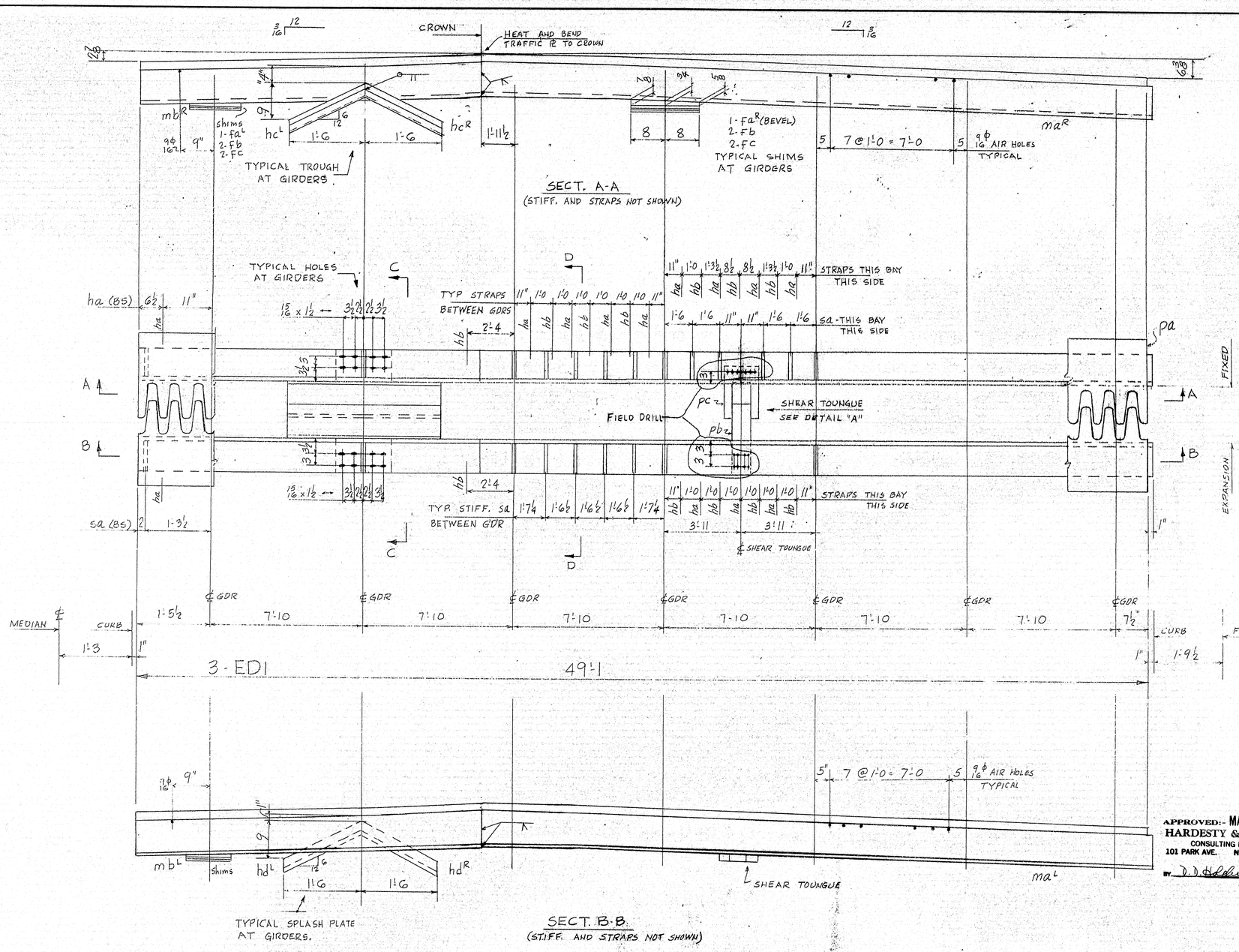
JOB: PISCATAQUA RIVER BRIDGE
Project No. I-95-1 (22) 16
Contract No. 2, Maine Approach
Structural Steel

CUSTOMER: CIANCHETTE BROS. INC.
DESIGNER: HARDESTY & HANOVER

| REV. | | | ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|---|---|---|
| CHECKED | dlmb | 3/17/69 | | 69-40 | J1 |
| DRAWN | CB | | | | |

106-22






NOTES

FOR SECTIONS AND DETAILS NOT SHOWN SEE SHEET H3.

APPROVED:- MAY 19 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY D. D. Hardesty

| SHIP MARK | NO. | MARK | BILL OF MATERIAL SHAPE | LENGTH | | WT. | ITEM NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 3-ED1 | | | | | | | | |
| | 3 | pa | PL 32 x 2 | 49 | 1 | | 58 | |
| | 6 | maR | L 8 x 8 x 1 | 34 | 0" | | 57 | |
| | 6 | mbR | Do | 15 | 2" | | 57 | |
| | 192 | sa | PL 7 x 3/4 | | 10 3/4 | | 66 | |
| | 147 | ha | FL 2 1/2 x 3/8 | 1 | 3 | | 67 | A36 |
| | 111 | hb | Do | 1 | 3 | | 67 | A36 |
| | 42 | hcR | PL 15 1/2 x 3/8 | 1 | 9 3/4 | | 62 | |
| | 42 | hdR | PL 15 1/2 x 3/8 | 1 | 9 3/4 | | 61 | |
| | 42 | faR | PL 5 x 3/8 | 1 | 4 | | 1 | BEVEL |
| | 84 | fb | PL 2 x 1/2 | 1 | 4 | | | |
| | 84 | fc | PL 5 x 5 | 1 | 4 | | | |
| | 3 | pb | PL 12 x 2 | 1 | 4 1/4 | | 60 | |
| | 3 | pc | PL 21 x 2 | 1 | 1 1/4 | | 59 | |

STEEL: ASTM. A242 EXCEPT AS NOTED IN BILL
WELDING ELECTRODE E70 - SEE WELDING PROCEDURE
SHOP CONN: WELDED
FIELD CONN: 7/8ϕ H.S. BOLTS
HOLES: AS NOTED
PAINT: ONE COAT ZINC RICH EPOXY PAINT
SPECIAL CLEANING: BLAST CLEAN
APPROVED:

EXPANSION DAM

| PRINT DIST. | | |
|---|---|---|
| FAB. | 5-20-69 | 4 |
| DIST. | 5-20-69 | 10 |

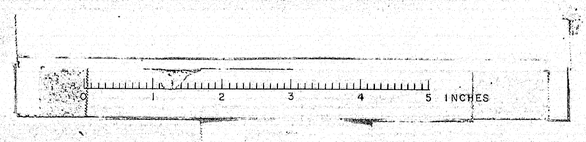
Bancroft & Martin Inc.
South Portland, Maine 04106

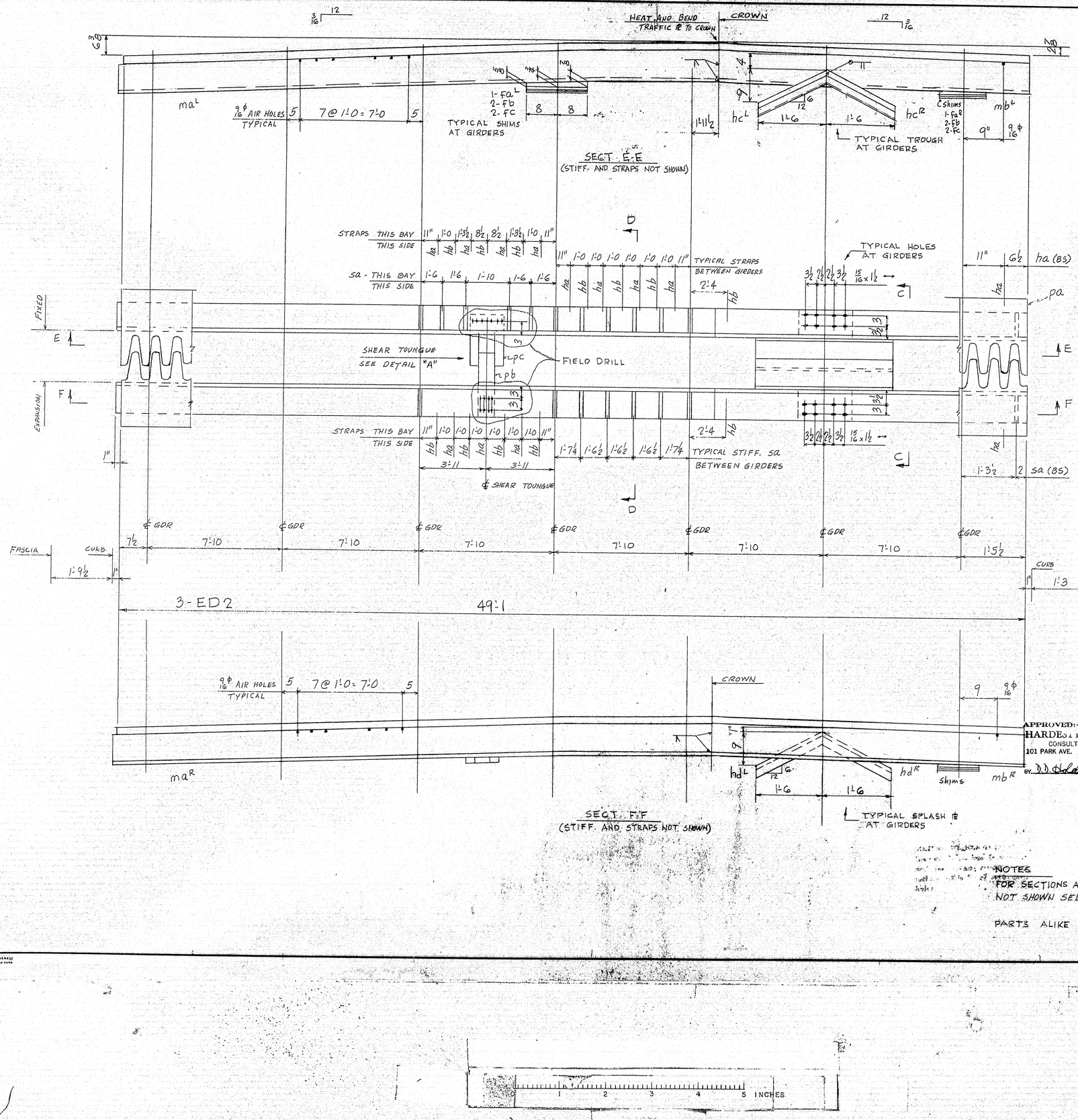
JOB: PISCATAQUA RIVER BRIDGE
Project No. 1-95 1 (22) 15
Contract No. 2, Maine Approach
Structural Steel

CUSTOMER: CIANCHETTE BROS. INC
DESIGNER: HARDESTY & HANOVER

| REV. | | ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|---|---|
| CHECKED | DMS | | 69-40 | H1 |
| DRAWN | CB | | | |

106-23






APPROVED:- MAY 19 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY D.D. Hardesty

NOTES
FOR SECTIONS AND DETAILS NOT SHOWN SEE SHEET H3

PARTS ALIKE FOR SHEETS H1, H2

| SHIP | BILL OF MATERIAL | | | | | JOB NO. 69-40 | DWG. NO. H2 |
|---|---|---|---|---|---|---|---|
| MARK | NO. | MARK | SHAPE | LENGTH | WT. | ITEM NO. | REMARKS |
| 3-ED2 | | | | | | | |
| | 3 | pa | PL 32 x 2 | 49 1 | | 58 | |
| | 6 | ma L R | L 8 x 8 x 1 | 34 0± | | 57 | |
| | 6 | mb L R | Do | 15 2± | | 57 | |
| | 192 | sa | PL 7 x ¾ | 10¾ | | 66 | |
| | 147 | ha | Fl 2½ x ⅜ | 1 3 | | 67 | A36 |
| | 111 | hb | Do | 1 3 | | 67 | A36 |
| | 42 | hc L R | PL 13½ x ⅜ | 1 9¾ | | 62 | |
| | 42 | hd L R | PL 10½ x ⅜ | 1 9¾ | | 61 | |
| | 42 | Fu L R | PL 8 x 7/16 | 1 4 | | | |
| | 84 | Fb | PL 8 x ½ | 1 4 | | | |
| | 84 | Fc | PL 8 x ⅜ | 1 4 | | | |
| | 3 | pb | PL 12 x 2 | 1 4¼ | | 60 | |
| | 3 | Fc | PL 21 x 2 | 1 1¼ | | 59 | |

STEEL: ASTM. A242 EXCEPT AS NOTED IN BILL
WELDING ELECTRODE E70 - SEE WELDING PROCEDURE
SHOP CONN: WELDED
FIELD CONN: 7/8ϕ H.S. BOLTS
HOLES: AS NOTED
PAINT: ONE COAT ZINC RICH EPOXY PAINT
SPECIAL CLEANING: BLAST CLEAN
APPROVED:

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-20-69 | 4 |
| DIST | 5-20-69 | 10 |

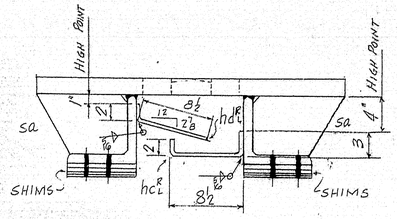
Bancroft & Martin Inc.
South Portland, Maine 04106

JOB: PISCATAQUA RIVER BRIDGE
Project No. I-95-1 (22) 16
Contract No. 2, Maine Approach
Structural Steel

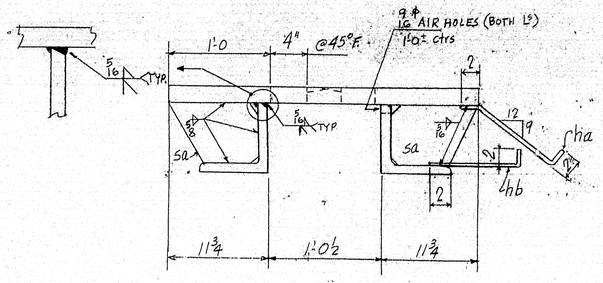
CUSTOMER: CIANCHETTE BROS INC.
DESIGNER: HARDESTY & HANOVER

| REV. | ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|---|
| CHECKED DMC | | 69-40 | H2 |
| DRAWN CB | | | |

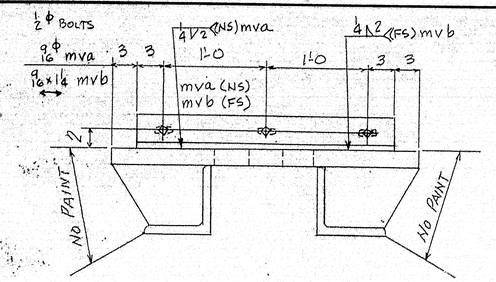
106-24




SECT C-C
AT GIRDER

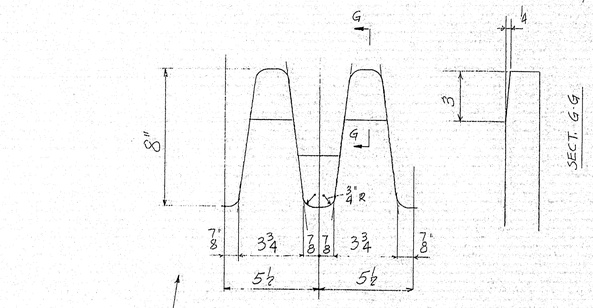


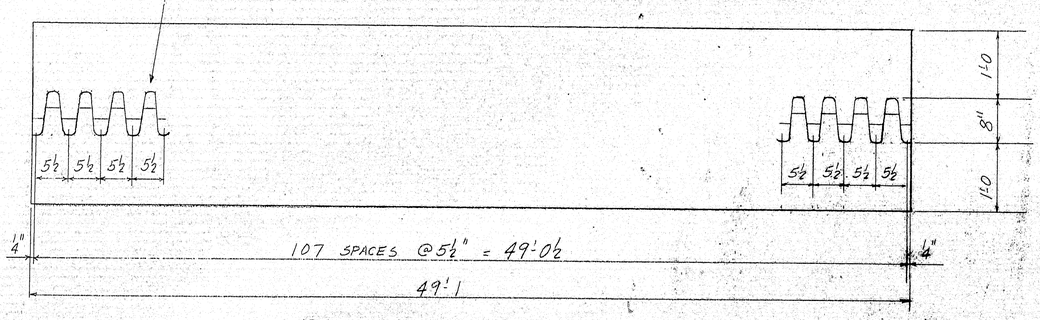

SECT. D-D
TYPICAL THRU DAM



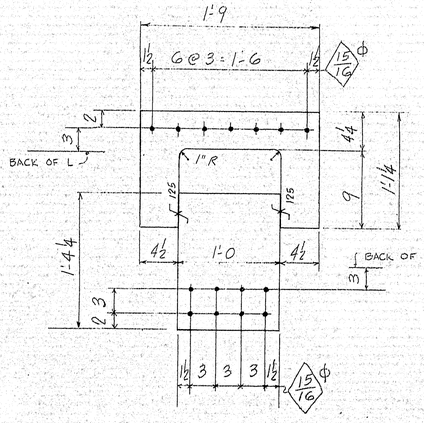

SHIPPING DEVICE 5'-0± CTRS

REMOVE AFTER DAM IS BOLTED TO GDR AND GRIND WELDED AREAS SMOOTH.




FINGER PLATE pa CUTTING DIAGRAM




DETAIL 'A'
SHEAR TOUNGUE (BFSH)

APPROVED:- MAY 19 1969
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY D. D. Holdsworth

HOLES ARE FOR HIGH STRENGTH BOLTS
They are to be free from burrs and shall not be painted on any surface within 3" of such open holes.

| SHIP MARK | NO. | MARK | SHAPE | LENGTH | | WT. | ITEM NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | 60 | mva | L 4x3x⅜ | 2 | 6 | | | |
| | 60 | mvb | Do | 2 | 6 | | | |
| | 180 | SHOP | ½Φ BOLTS | | 1½ | | | 1 WASHER |

BILL OF MATERIAL — JOB NO. 69-40 — DWG. NO. H3

STEEL: ASTM. SEE H1, H2
WELDING ELECTRODE E70 - SEE WELDING PROCEDURE
SHOP CONN: WELDED
FIELD CONN: 7/8Φ H.S. BOLTS
HOLES: AS NOTED
PAINT: ONE COAT ZINC RICH EPOXY
SPECIAL CLEANING: BLAST CLEAN
APPROVED:

EXPANSION DAM SECTIONS AND DETAILS

| PRINT DIST. | | |
|---|---|---|
| FAB | 5-20-69 | 4 |
| DIST | 5-20-69 | 10 |
| REV. | | |
| CHECKED | DMG | |
| DRAWN | CB | |

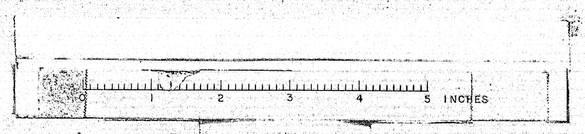
Bancroft & Martin Inc.
South Portland, Maine 04106

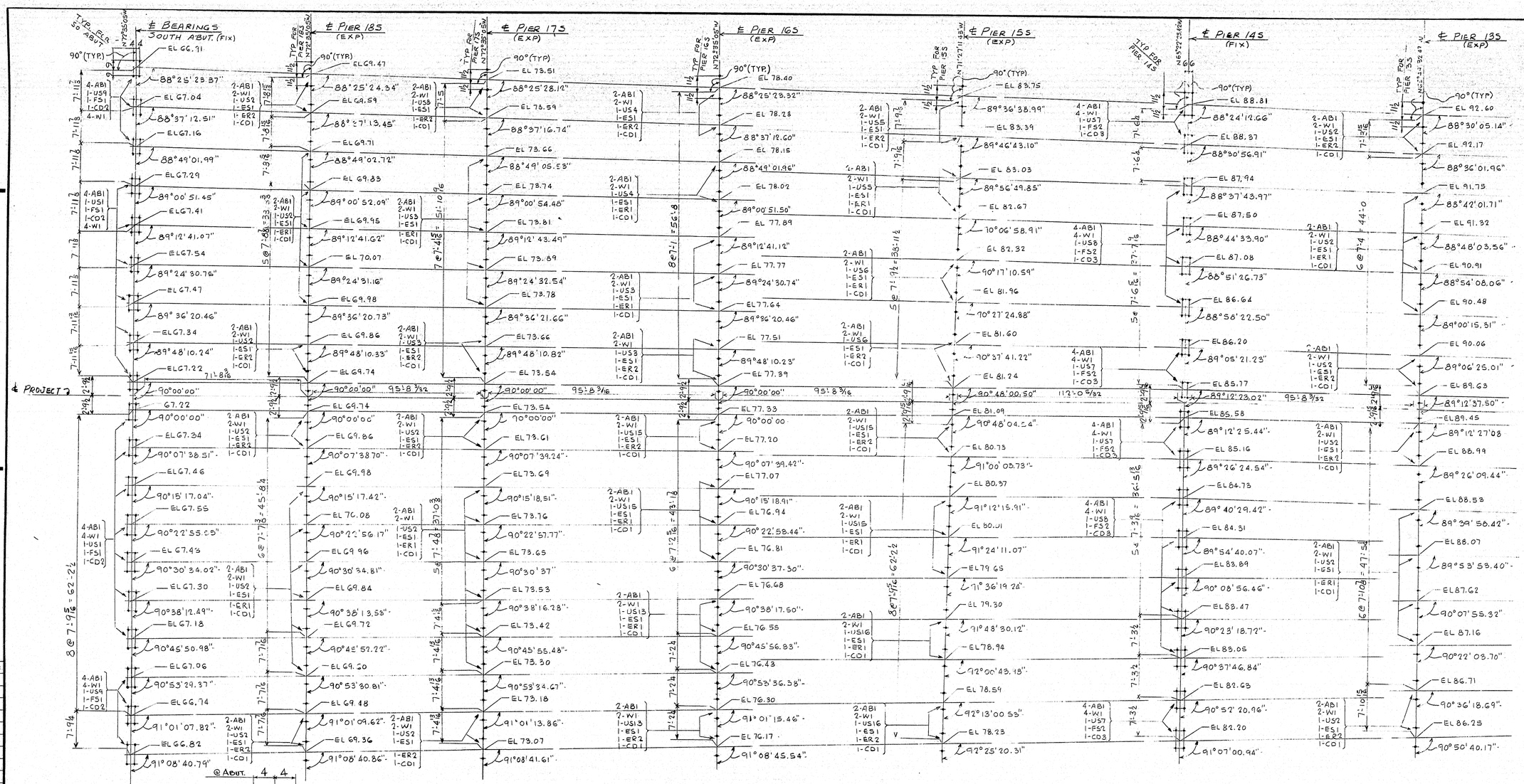
JOB: PISCATAQUA RIVER BRIDGE
(22) 15
2 Maine Approach
Structural Steel

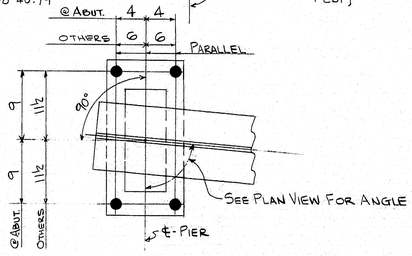
CUSTOMER: CIANCHETTE BROS. INC.
DESIGNER: HARDESTY & HANOVER

| ORDER NO. | JOB NO. | DRAWING NO. |
|---|---|---|
| | 69-40 | H3 |

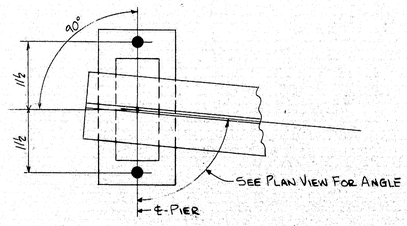
106-25






FIXED BEARING
(TYP.)




EXPANSION BEARING
(TYP.)

INSTALL - ABI

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY _____ SEP 30 1969

WORK THIS DWG WITH DWGS E2, E3, E4
SEE DWG E4 FOR NOTES.

ANCHOR BOLT PLAN

| | MATERIAL |
|---|---|
| | RIVETS OR BOLTS |
| | OPEN HOLES |
| | A325 FIELD BOLTS |
| | SHOP CONTACT SURFACES |
| | PAINT |

| SUBMITTAL | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|
| DATE | | | | | | | | | | |

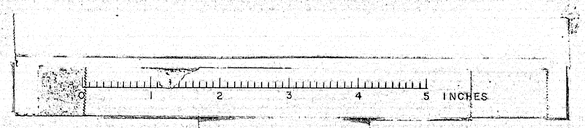
| DWG NO. | NO. | DATE | INIT. |
|---|---|---|---|
| | REVISION | | |

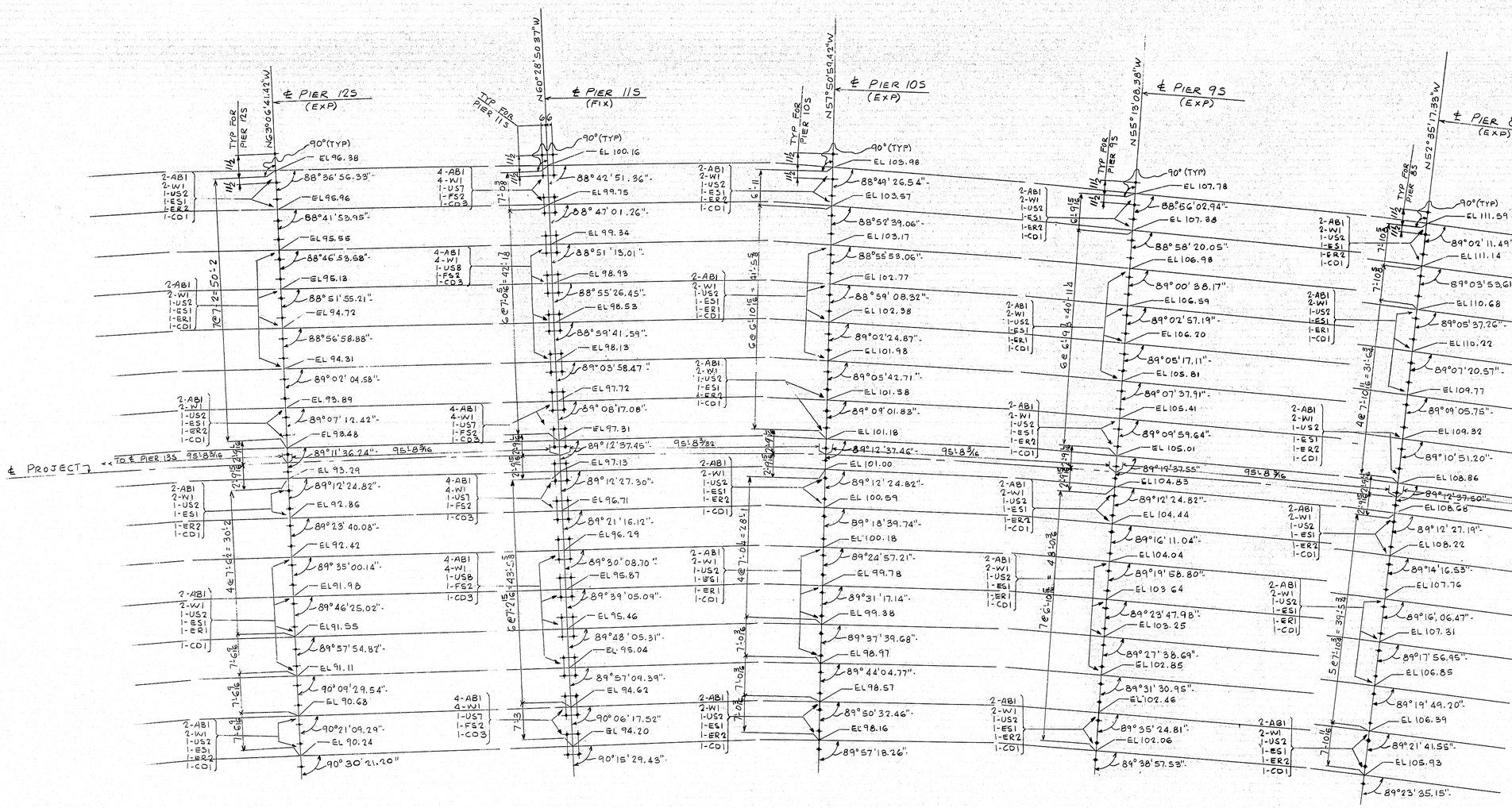
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT Nº I-95-1(22)16
CONT. Nº 3, NEW HAMPSHIRE ARM
STRUCTURAL STEEL
**BETHLEHEM STEEL CORPORATION**
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY CWG DATE 7-10-69 IN CHARGE B.K BERTOLET
CHECKED BY RJ DATE 7-24-69 SHOP NO.
CONTRACT CJ6249-000 DRAWING NO. E1

For location of details shown on this sheet refer to diagrams.

36016 (Rev.C 3-66)

106-26






| | a | b | c |
|---|---|---|---|
| a | | | |
| b | | | |
| c | | | |
| d | | | |
| f | | | |
| g | | | |
| h | | | |
| k | | | |
| m | | | |
| n | | | |
| p | | | |
| s | | | |
| t | | | |
| w | | | |
| y | | | |

For location of details shown on this sheet refer to diagrams.

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Arnold Hanover SEP 30 1969

WORK THIS DWG WITH DWG E1, E3, E4
SEE DWG E4 FOR NOTES

ANCHOR BOLT PLAN

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT

| DWG NO. | NO. | DATE | INIT. |
|---|---|---|---|
| | 0 | | |
| | 9 | | |
| | 8 | | |
| | 7 | | |
| | 6 | | |
| | 5 | | |
| | 4 | | |
| | 3 | | |
| | 2 | | |
| | 1 | | |

REVISION

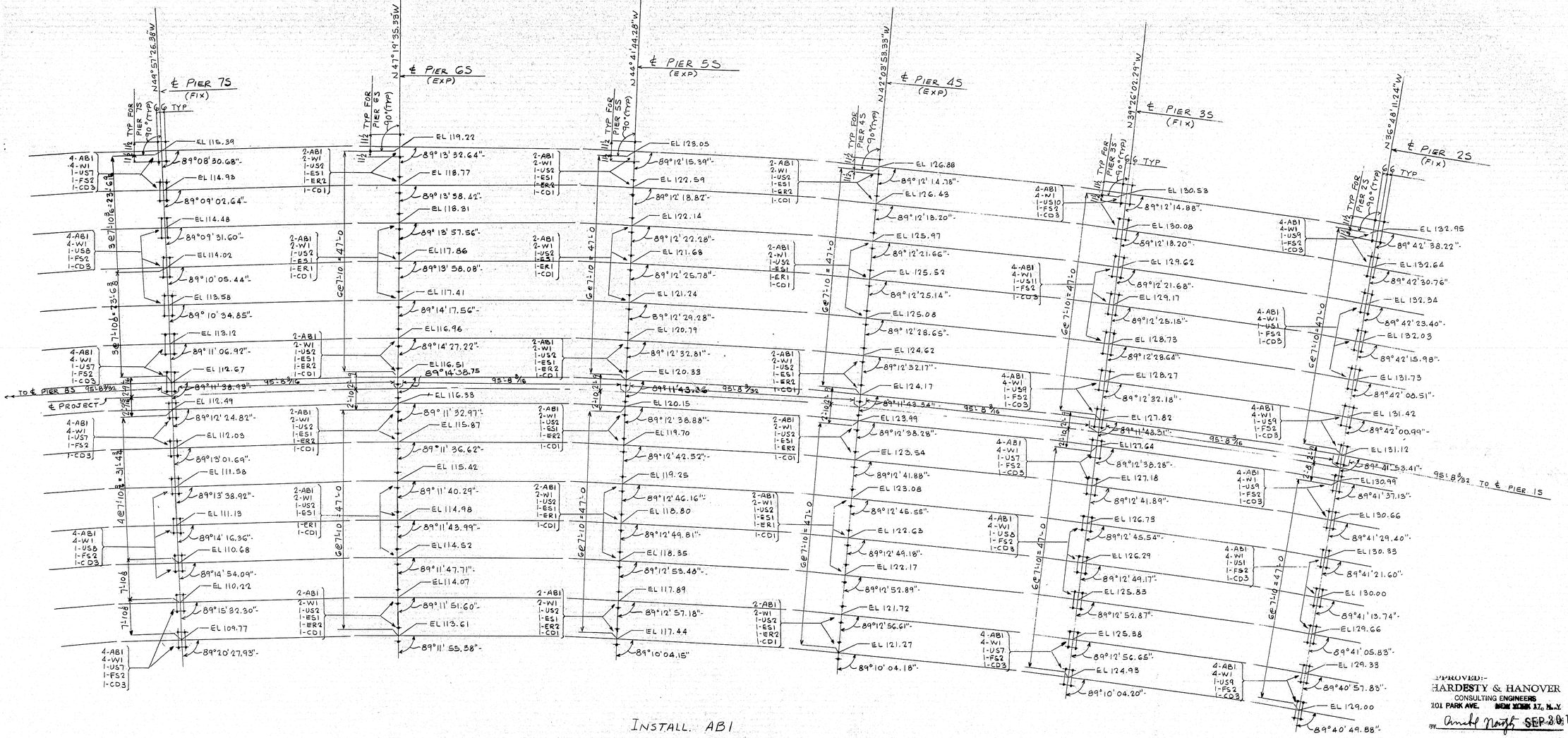
| SUBMITTAL | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|
| DATE | | | | | | | | | | |

CUSTOMER
MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT Nº I-95-1(22)16
CONT. Nº3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
**BETHLEHEM STEEL CORPORATION**
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY EWG DATE 7-10-69 IN CHARGE B.K. BERTOLET
CHECKED BY RJ DATE 7-24-69 SHOP NO.
CONTRACT CJG249-000 DRAWING NO. E2

30016 Bhm.C 3-69

706-27

0 1 2 3 4 5 INCHES




INSTALL. ABI

WORK THIS DWG WITH DWG E1, E2, E4
SEE DWG E4 FOR NOTES.

ANCHOR BOLT PLAN

For location of details shown on this sheet refer to diagrams.

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT

| | 0 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | NO. | DATE | INIT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | REVISION | | |

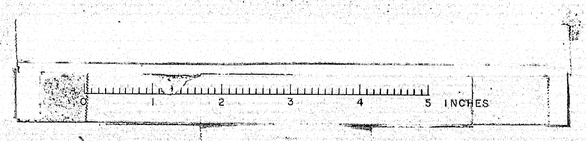
| SUBMITTAL | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|
| DATE | | | | | | | | | | |

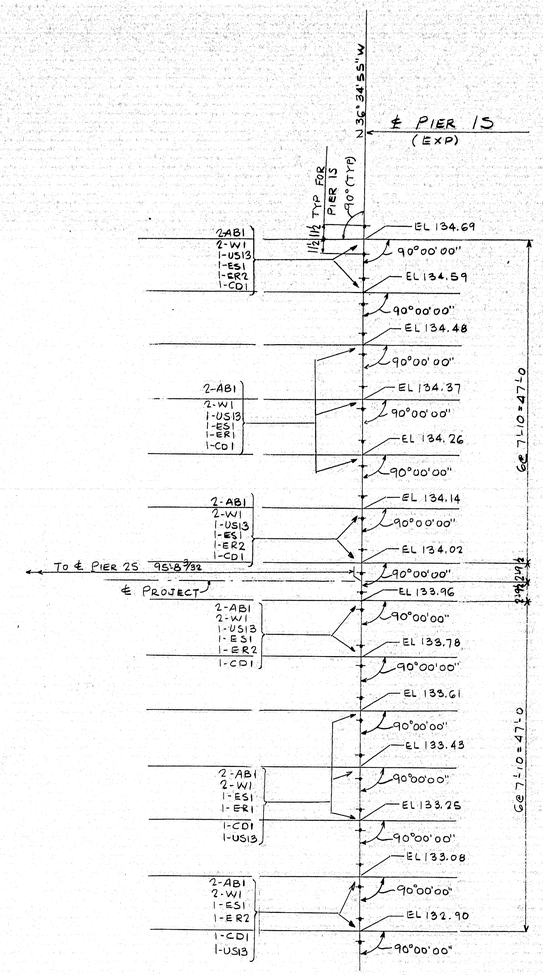
APPROVED:
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Arnold Hardesty SEP 30 1969

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT NO. I-95-1(22)16
CONT. NO. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
**BETHLEHEM STEEL CORPORATION**
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM Pottstown WORKS
MADE BY CWG DATE 7-10-69 IN CHARGE B.K BERTOLET
CHECKED BY RJ DATE 7-24-69 SHOP NO.
CONTRACT CJG249-000 DRAWING NO. E3

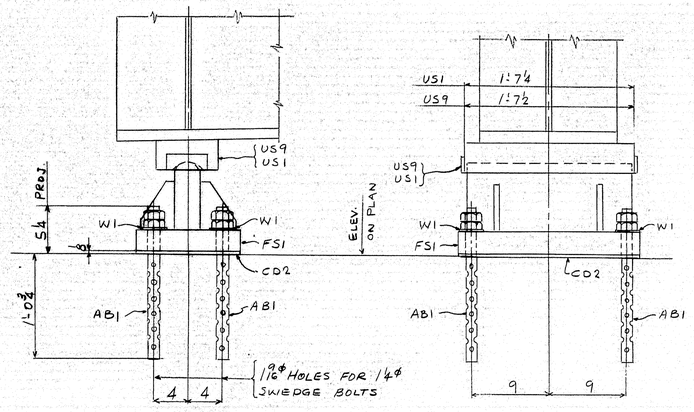
36663 (1-65)

106-28

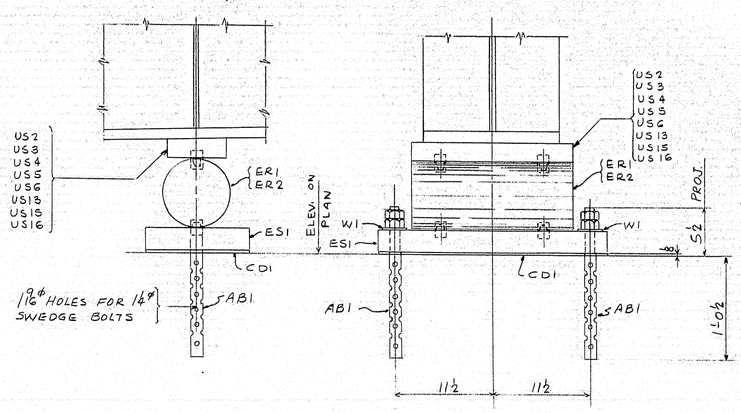




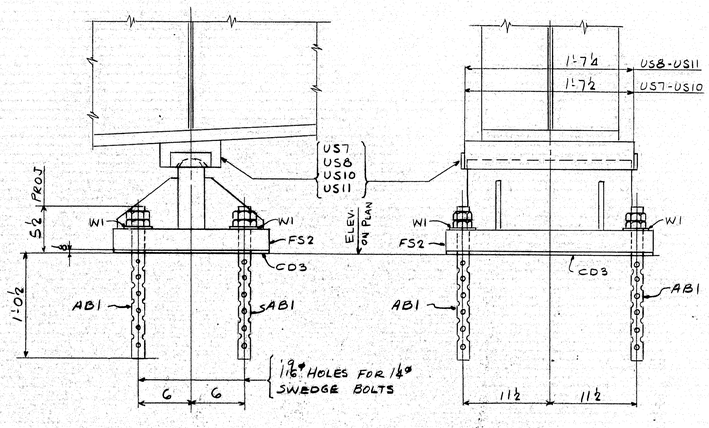

INSTALL AB1




FIXED BEARING (AT ABUTMENT)




EXPANSION BEARING (TYPICAL)




FIXED BEARING (AT PIERS) (TYPICAL)

NOTES:
ANCHOR BOLTS FURNISHED & SET BY BETH. STEEL CORP. HOLES FOR ANCHOR BOLTS ARE TO BE DRILLED IN PIERS AND A.B. ARE TO BE GROUTED IN PLACE. ELEV. ON PLANS ARE GIVEN TO BOTTOM OF ⅛" PREFORMED PADS - CD1, CD2, CD3.
UPPER SHOES US1 TO US16 TO BE SHOP WELDED TO BOTT. FLG OF GDR3.
ALL DIMS. ON DWGS E1 TO E4 HAVE BEEN ADJUSTED TO SUIT MEASURING TAPES CALIBRATED TO 68° F.
ALL DIMS. MUST BE STRICTLY ADHERED TO OR STEEL WILL NOT FIT. REPORT ANY ERRORS OR MISUNDERSTANDING TO THIS OFFICE AT ONCE.
WORK THIS DWG WITH DWG E1, E2, E3.

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Arnold Hanover SEP 30 1969

For location of details shown on this sheet refer to diagrams.

| | a | b | c |
|---|---|---|---|
| a | | | |
| b | | | |
| c | | | |
| d | | | |
| f | | | |
| g | | | |
| h | | | |
| k | | | |
| m | | | |
| n | | | |
| p | | | |
| s | | | |
| t | | | |
| w | | | |
| y | | | |

| | |
|---|---|
| MATERIAL | |
| RIVETS OR BOLTS | |
| OPEN HOLES | |
| A325 FIELD BOLTS | |
| SHOP CONTACT SURFACES | |
| PAINT | |

| NO. | DATE | INIT. | REVISION |
|---|---|---|---|
| 0 | | | |
| 9 | | | |
| 8 | | | |
| 7 | | | |
| 6 | | | |
| 5 | | | |
| 4 | | | |
| 3 | | | |
| 2 | | | |
| 1 | | | |

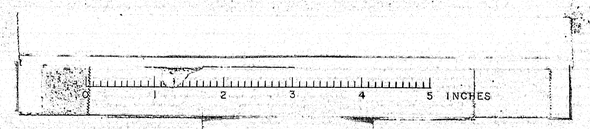
| SUBMITTAL | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|
| DATE | | | | | | | | | | |

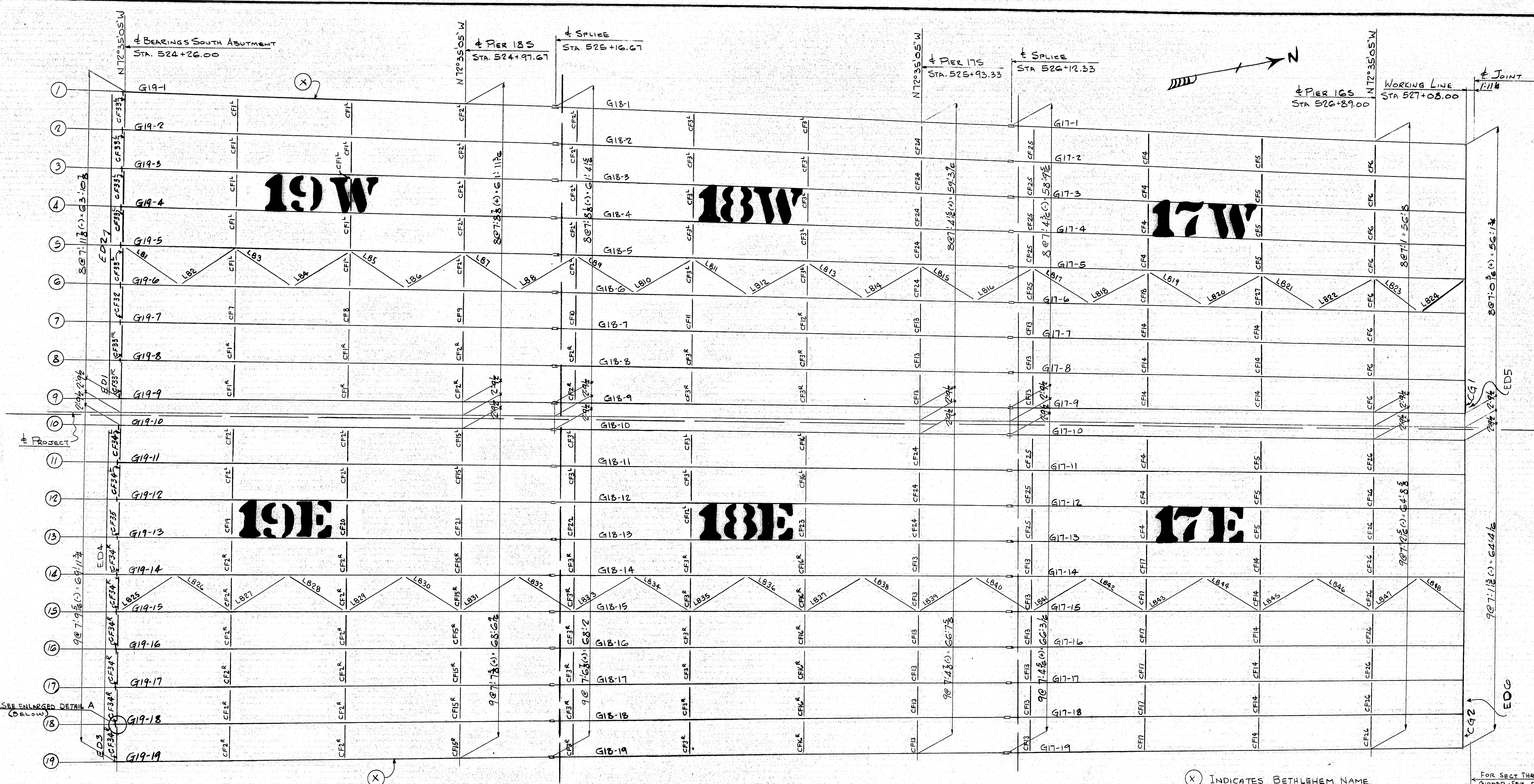
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT Nº 1-95-1(22)16
CONT. Nº 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
**BETHLEHEM STEEL CORPORATION**
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY CWG DATE 7-10-69 IN CHARGE B.K. BERTOLET
CHECKED BY RJ DATE 7-24-69 SHOP NO.
CONTRACT CJ6249-000 DRAWING NO. E4

ANCHOR BOLT PLAN & SHOES

36663 (1-69)

106-29

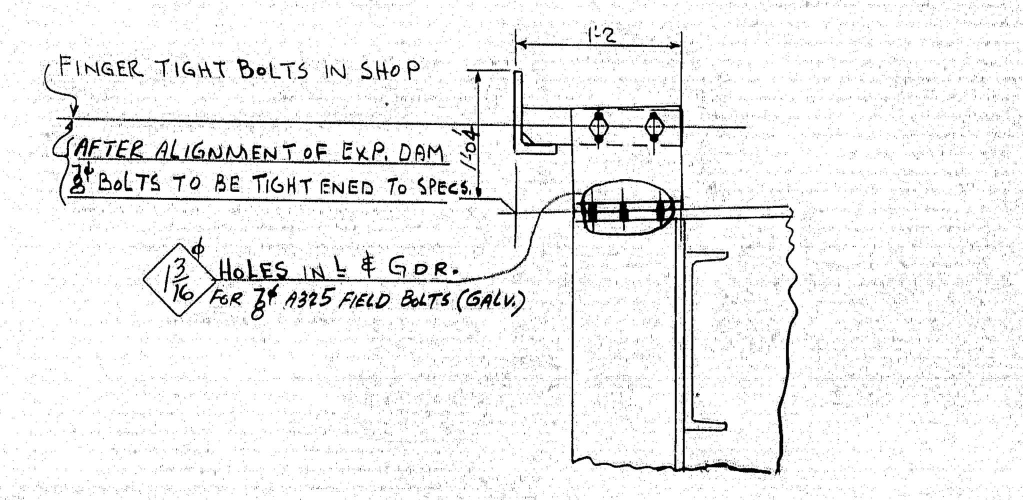





Ⓧ Indicates Bethlehem name. Erector must remove before leaving site.

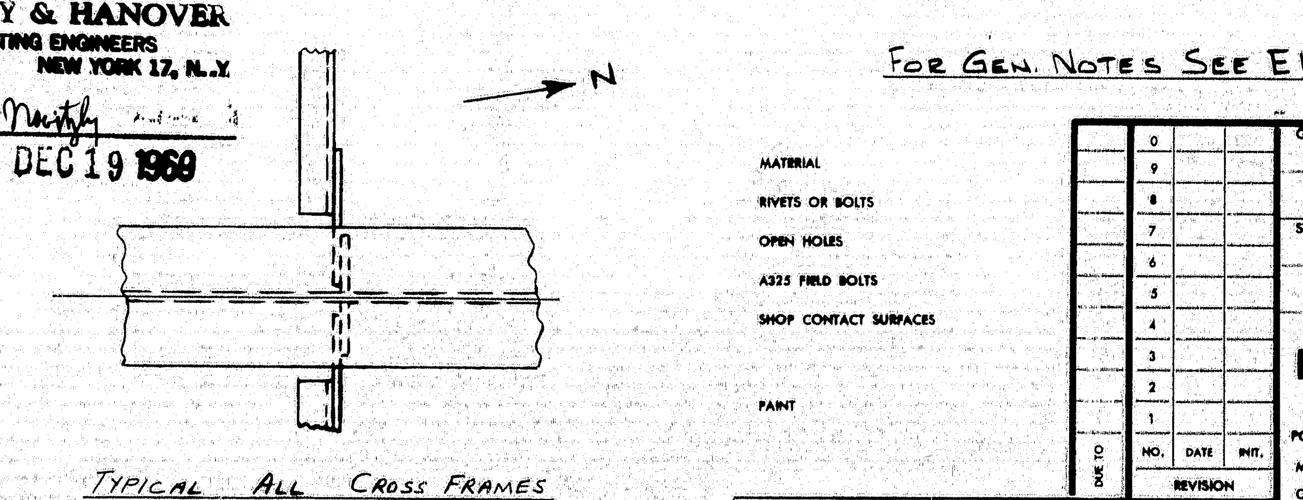
For sect thru cross girder see sh. E13

For sect thru exp. joint see sh. E13




DETAIL A
(Conn. of Exp. Dam to Gdrs.)

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
Arnold Nowitzky
DEC 19 1969




Typical All Cross Frames Unless Shown

For Gen. Notes See E12

For location of details shown on this sheet refer to diagrams.

| | |
|---|---|
| MATERIAL | |
| RIVETS OR BOLTS | |
| OPEN HOLES | |
| A325 FIELD BOLTS | |
| SHOP CONTACT SURFACES | |
| PAINT | |

CUSTOMER: Maine State Highway Commission
Piscataqua River Bridge
STRUCTURE: Project No I-95-1 (22) 16
Cont. No. 3 - New Hampshire App.
Structural Steel

**BETHLEHEM STEEL CORPORATION**
FABRICATED STEEL CONSTRUCTION

POTTSTOWN DRAFTING ROOM ____ WORKS
MADE BY R.D.N. DATE ____ IN CHARGE B.K. Bertolet
CHECKED BY ____ DATE ____ SHOP NO. ____
CONTRACT CJ6249 DRAWING NO. E5

106-30

ALL SHIMS ON CROSS GIRDER SIDE OF EXP. DAM, ARE DET IN POSITION ON EXP DAM DETAILS.

N72°35'05"W

1:1.14

℄ JOINT

WORKING LINE STA. 527+08.00

N71°27'11.45"W

℄ PIER 15S STA. 527+84.67

FOR TYP LOCATION OF CONN'S FOR CROSS FRAMES SEE SKETCH BELOW

℄ SPLICE STA. 528+03.67

EDGE OF SLAB

℄ SPLICE STA. 528+77.67

N68°22'23.42"W

℄ PIER 14S STA. 528+96.67

℄ JOINT

WORKING LINE STA. 529+73.33

1:1.14

16W

15W

14W

16E

15E

14E

EDS

EDO

EDG

EDI

℄ PROJECT 2

SEE DETAIL Ⓐ E13 FOR ERECTION OF CROSS FRAMES

FOR SECT THRU EXP JOINT SEE E13

TYP. LOCATION OF CONN.'S FOR CROSS FRAMES @ SPLICE

CROSS FRAME CONN. AT FIELD SPLICES

TYPICAL ALL CROSS FRAMES UNLESS SHOWN AND AT SPLICES

DETAIL OF GIRDER AT SPL SHOWING LOCATION OF CONN. L's FOR CROSS FRAMES. TYP AT SPANS 7 & 15 (CLOSING SPANS).

(BOLT (NS) FR ℄ L's TO CLOSING GIRDER TO SHIP. BOLT (RS) FR ℄ L's TO OTHER GIRDER TO SHIP

APPROVED:
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Arnt Nourse DEC 19 1969

WORK THIS DWG WITH DWG # E13

FOR GEN. NOTES SEE E12

For location of details shown on this sheet refer to diagrams.

| MATERIAL |
|---|
| RIVETS OR BOLTS |
| OPEN HOLES |
| A325 FIELD BOLTS |
| SHOP CONTACT SURFACES |
| PAINT |

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CUSTOMER: MAINE STATE HIGHWAY COMMISSION

PISCATAQUA RIVER BRIDGE

STRUCTURE: PROJECT NO. I-95-1 (22) 16

CONT. NO 3 NEW HAMPSHIRE APPROACH

STRUCTURAL STEEL
**BETHLEHEM STEEL CORPORATION**
FABRICATED STEEL CONSTRUCTION

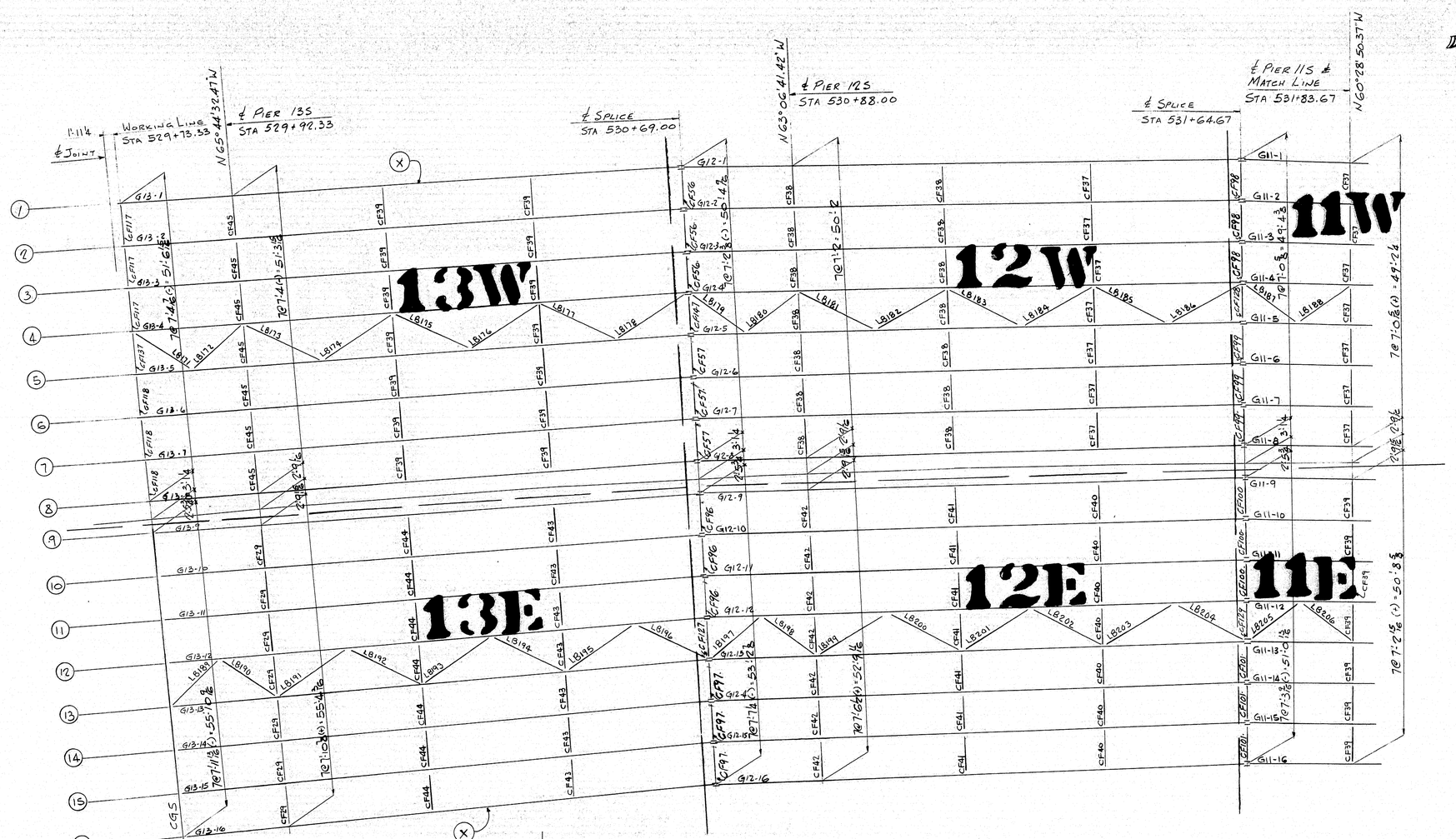
POTTSTOWN DRAFTING ROOM Pottstown WORKS
MADE BY RDN DATE IN CHARGE B.K. BERTOLET
CHECKED BY DATE SHOP NO.

CONTRACT CS-6249 DRAWING NO. E6

30016 (Rev.C 3-66)

E6 106-34

0 1 2 3 4 5 INCHES




INDICATES BETHLEHEM NAME. ERECTOR MUST REMOVE BEFORE LEAVING SITE.

FOR GEN. NOTES SEE E17

FOR SECT. THRU EXP JOINT SEE E10

FOR SECT THRU CROSS GIRDER - SEE E13

F.S. L8 TO BE BOLTED IN THIS POSITION WITH H.S. BOLTS WHEN ERECTING CROSS FRAME (TYP)

N.S. L8 BOLTED WITH W.T. H.S. BOLTS (TYP)

F.S. L8 BOLTED IN THIS POSITION FOR SHIPM'T. & TO FACILITATE ERECTION OF GIRDERS

DETAIL OF GIRDER AT SPL. SHOWING LOCATION OF CONN L8 FOR CROSS FRAMES, TYP @ ALL SPLICES WITH CROSS FRAMES EXCEPT SPANS 7 & 15.

TYPICAL ALL CROSS FRAMES UNLESS SHOWN AND AT SPLICES

Erector Note Cross Frame ℄ Connects to back of Angles

CROSS FRAME CONN. AT FIELD SPLICES

APPROVED:
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Arnold Moorff DEC 16 1969

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT

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CUSTOMER: MAINE STATE HIGHWAY COMMISSION
STRUCTURE: PISCATAQUA RIVER BRIDGE
PROJECT NO. I-95-1(22)16
CONT. NO. 3 NEW HAMPSHIRE APPROACH

**BETHLEHEM STEEL CORPORATION**
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY R.D.N DATE IN CHARGE B.K. BERTOLET
CHECKED BY DATE SHOP NO.
CONTRACT # J6249. DRAWING NO. E7

For location of details shown on this sheet refer to diagrams.

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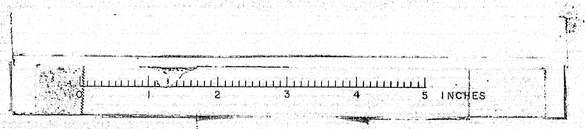
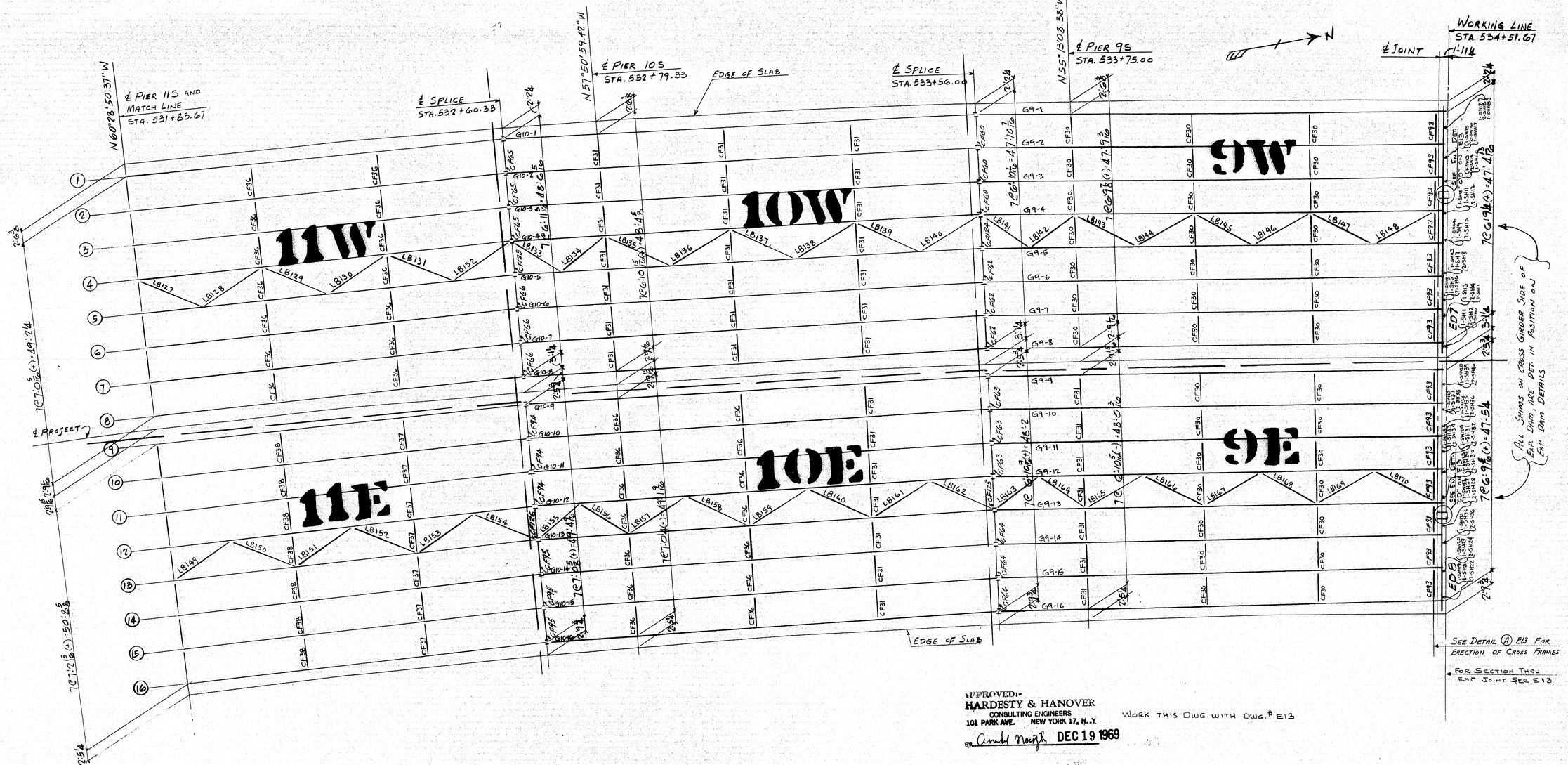



3614 (Rev.C 3-66)
E7
106-32




APPROVED:-
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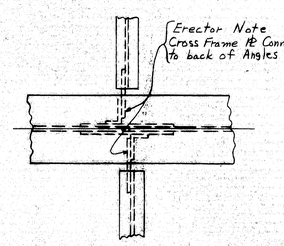
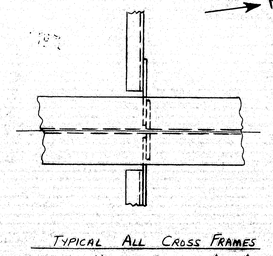
101 PARK AVE. NEW YORK 17, N.Y.
BY Arnold Waugh DEC 19 1969

WORK THIS DWG. WITH DWG.# E13




CROSS FRAME CONN. AT FIELD SPLICES




TYPICAL ALL CROSS FRAMES UNLESS SHOWN AND AT SPLICES

FOR GEN. NOTES SEE E12

For location of details shown on this sheet refer to diagrams.

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT

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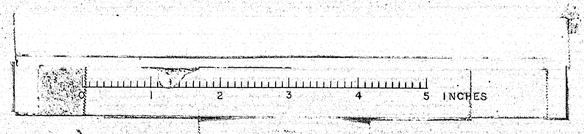
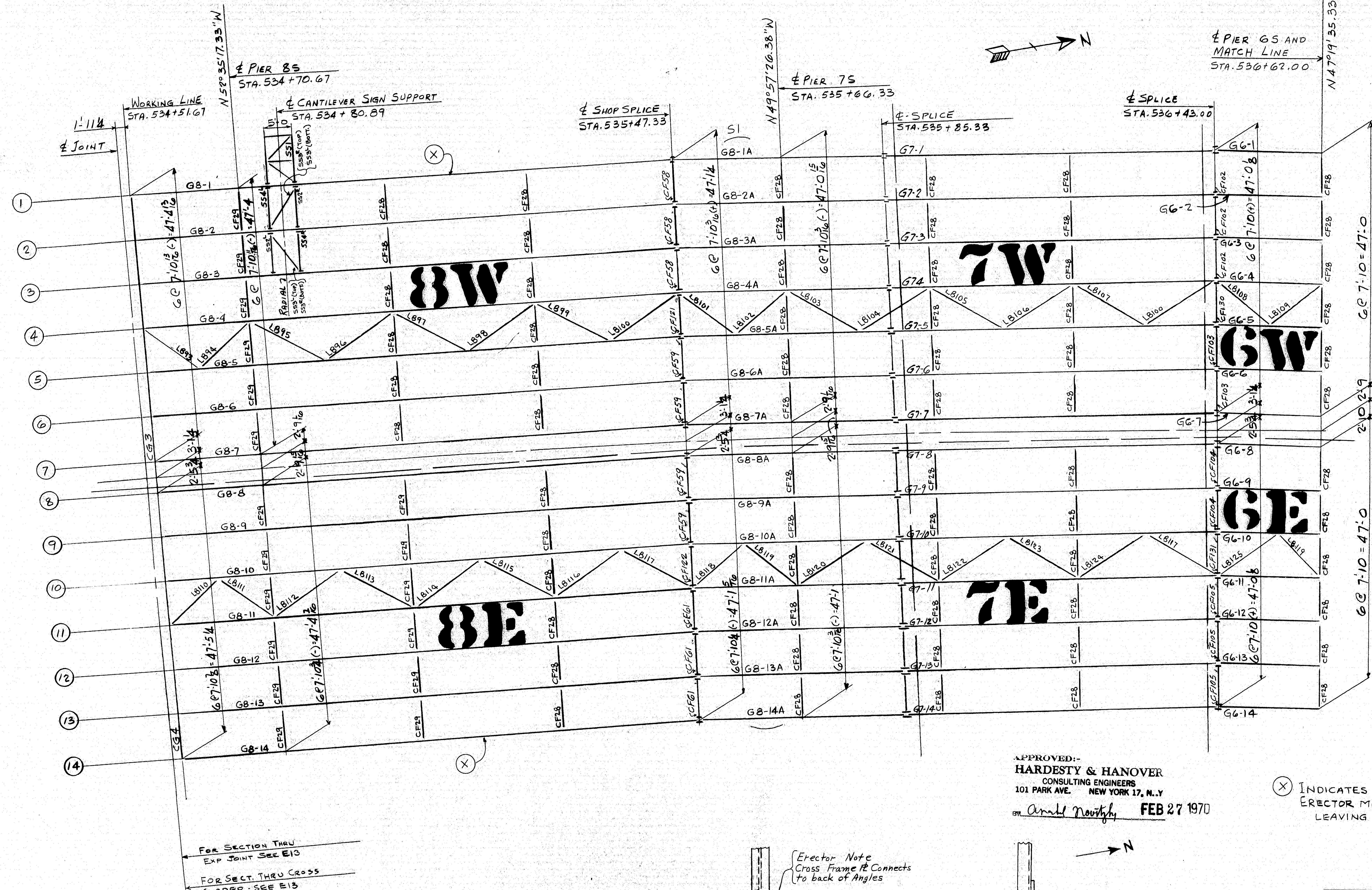
CUSTOMER: MAINE STATE HIGHWAY COMMISSION
STRUCTURE: PISCATAQUA RIVER BRIDGE
PROJECT NO. I-95-1(27)6
CONTRACT NO. 3-NEW HAMPSHIRE APP
STRUCTURAL STEEL
**BETHLEHEM STEEL CORPORATION**
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM: POTTSTOWN WORKS
MADE BY R.D.N DATE: IN CHARGE B.K. BERTOLET
CHECKED BY: DATE: SHOP NO.:
CONTRACT CJ-6249-000 DRAWING NO. E8

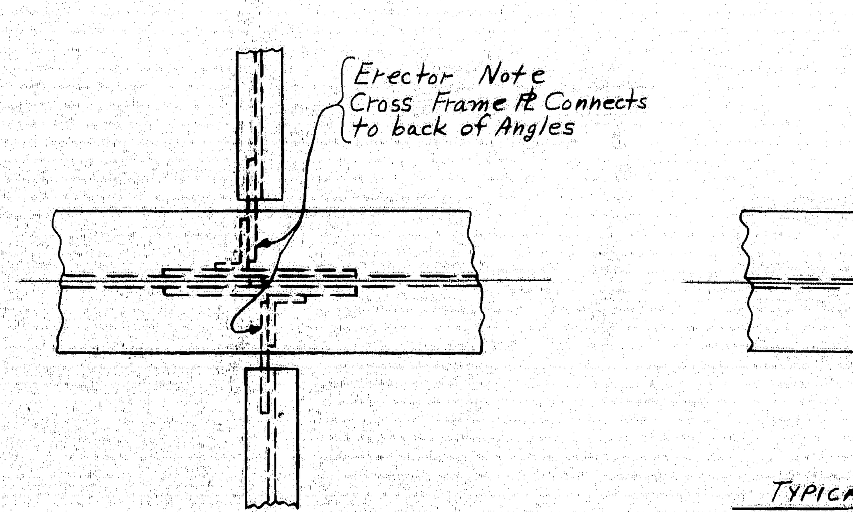
106-33



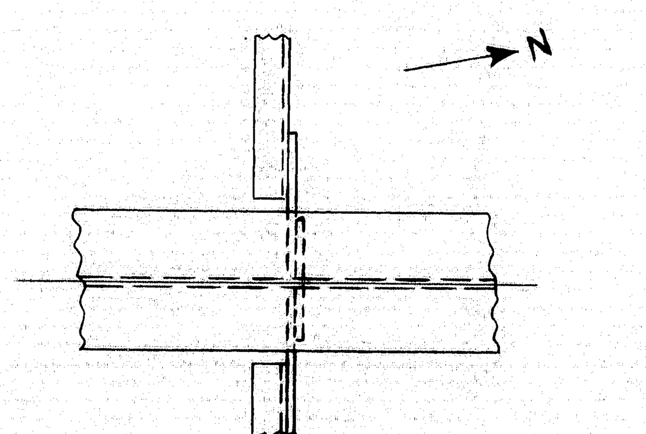



APPROVED:-
**HARDESTY & HANOVER**
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N. Y
BY Arnold Novitzky FEB 27 1970

(X) INDICATES BETHLEHEM NAME.
ERECTOR MUST REMOVE BEFORE
LEAVING SITE.




CROSS FRAME CONN. AT FIELD SPLICES




TYPICAL ALL CROSS FRAMES
UNLESS SHOWN AND AT SPLICES

FOR GEN NOTES SEE E12

For location of details shown on this sheet refer to diagrams.

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT

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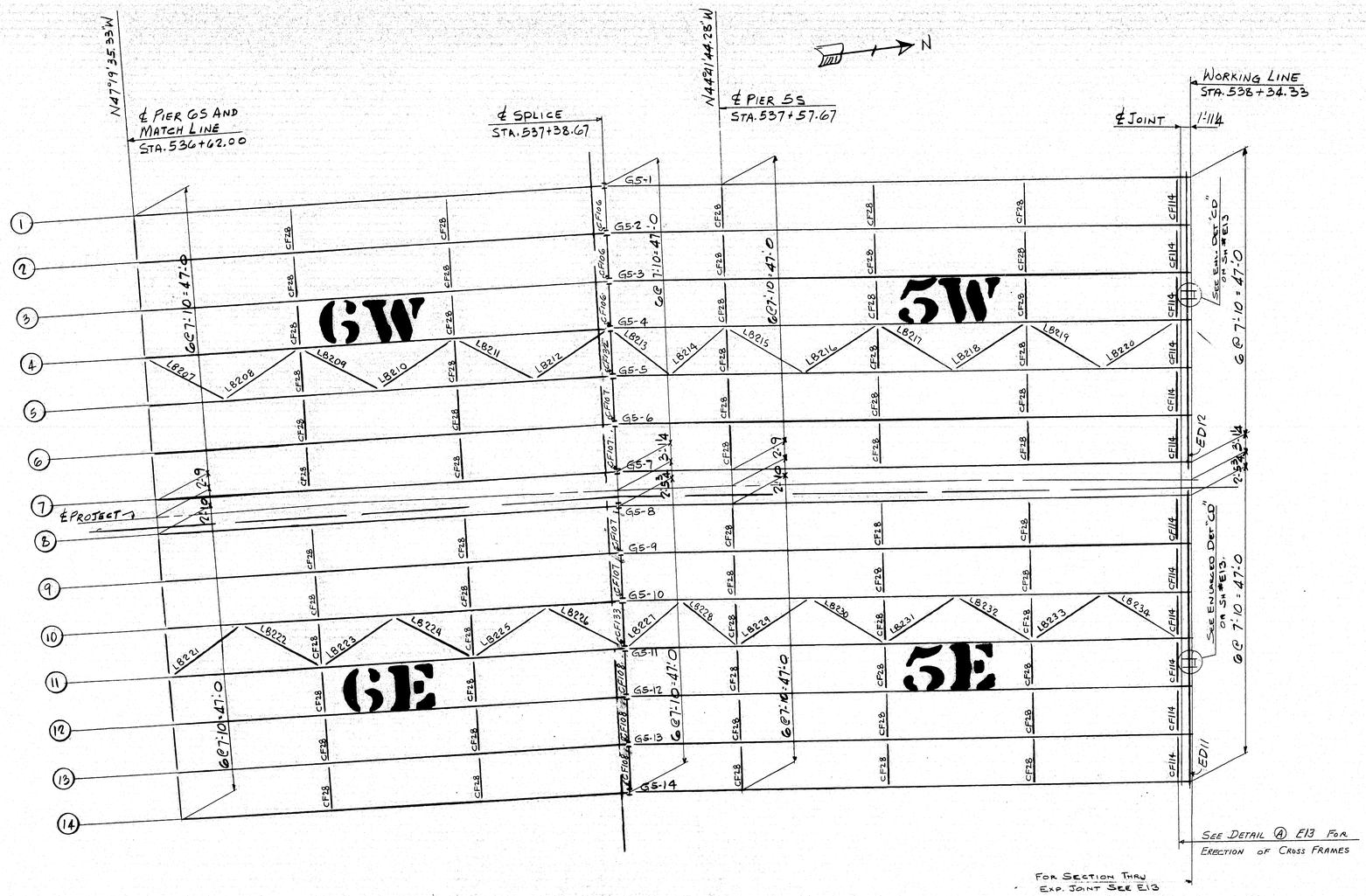
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT Nº I-95-1(22)16
CONTR. Nº 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
**BETHLEHEM STEEL CORPORATION**
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY R.D.N DATE IN CHARGE B.K. BERTOLET
CHECKED BY DATE SHOP NO.
CONTRACT CJ-6249.000 DRAWING NO. E9

206-34




Erector Note
Cross Frame & Connects to back of Angles

CROSS FRAME CONN. AT FIELD SPLICES

TYPICAL ALL CROSS FRAMES UNLESS NOTED AND AT SPLICES

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY [signature] DEC 28 1960

FOR GEN. NOTES SEE E12

For location of details shown on this sheet refer to diagrams.

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| MATERIAL | |
|---|---|
| RIVETS OR BOLTS | |
| OPEN HOLES | |
| A325 FIELD BOLTS | |
| SHOP CONTACT SURFACES | |
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| DATE TO | NO. | DATE | INIT. | REVISION |
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CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT No. I-95-1(22)16
CONT. No. 3 - NEW HAMPSHIRE APPROACH
STRUCTURAL STEEL
**BETHLEHEM STEEL CORPORATION**
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM _____ POTTSTOWN WORKS
MADE BY R.D.N DATE _____ IN CHARGE B.K. BIERTOLET
CHECKED BY _____ DATE _____ SHOP NO. _____
CONTRACT CS-6249-000 DRAWING NO. E10

36016 (Rev.C 3-60)

E10 186-35

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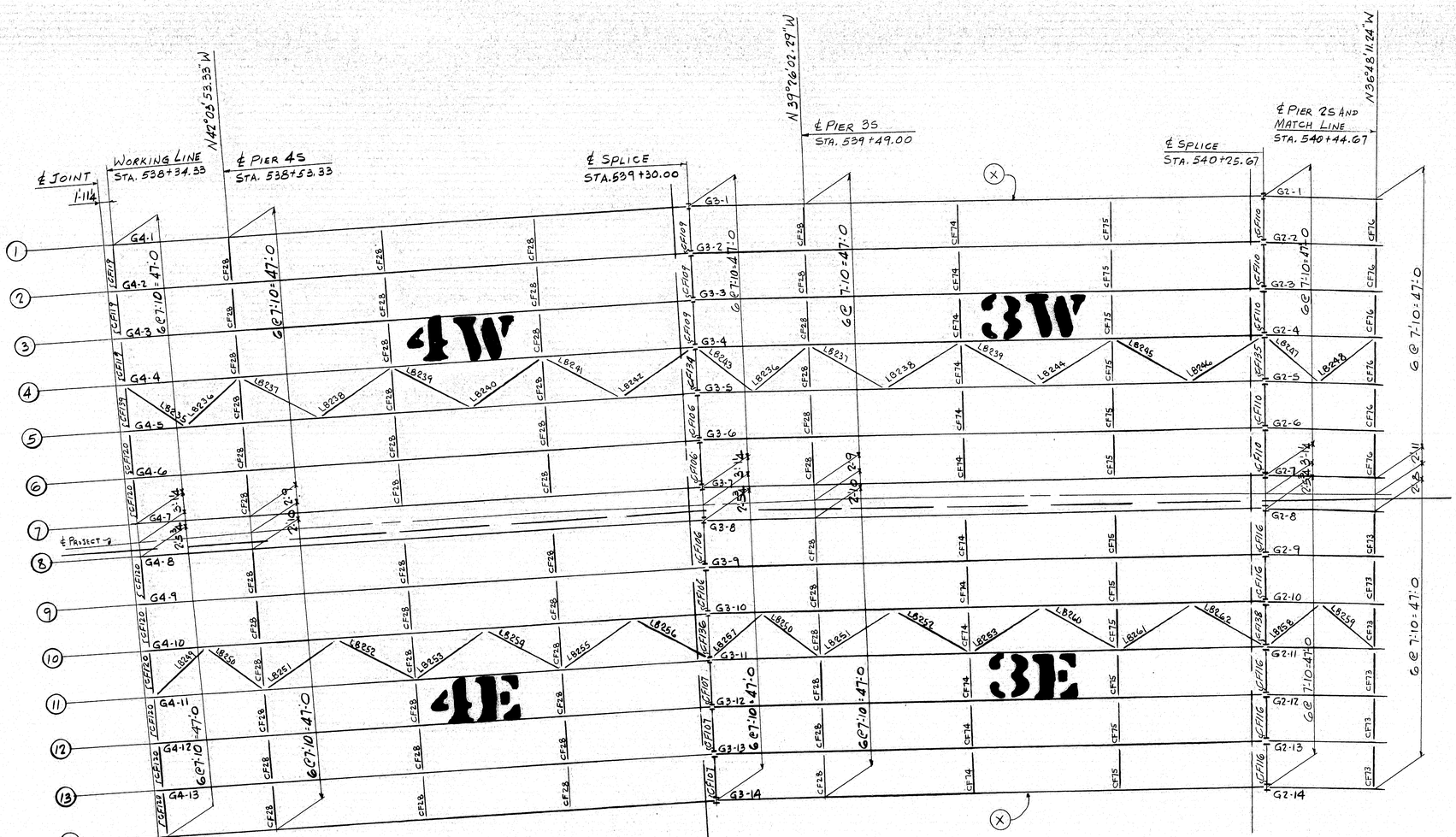


APPROVED:
HARDESTY & HANOVER
CONSULTING ENGINEERS
111 EIGHTH AVE. NEW YORK 11, N.Y.
By Arnold Moorby DEC 19 1969

Erector Note
Cross Frame ℄ Connects to back of Angles

CROSS FRAME CONN. AT FIELD SPLICES

TYPICAL ALL CROSS FRAMES UNLESS SHOWN AND AT SPLICES

FOR GEN NOTES SEE E12

For location of details shown on this sheet refer to diagrams.

| | a | b | c |
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MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT

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CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT No. I-95-1(22)16
CONT. No. 3 NEW HAMPSHIRE APPROACH
STRUCTURAL STEEL
**BETHLEHEM STEEL CORPORATION**
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM _____ POTTSTOWN WORKS
MADE BY RDN DATE _____ IN CHARGE B.K. BERTOLET
CHECKED BY _____ DATE _____ SHOP NO. _____
CONTRACT SS-6249-000 DRAWING NO. E11

36016 (Rev. 2-66)

E11

106-36

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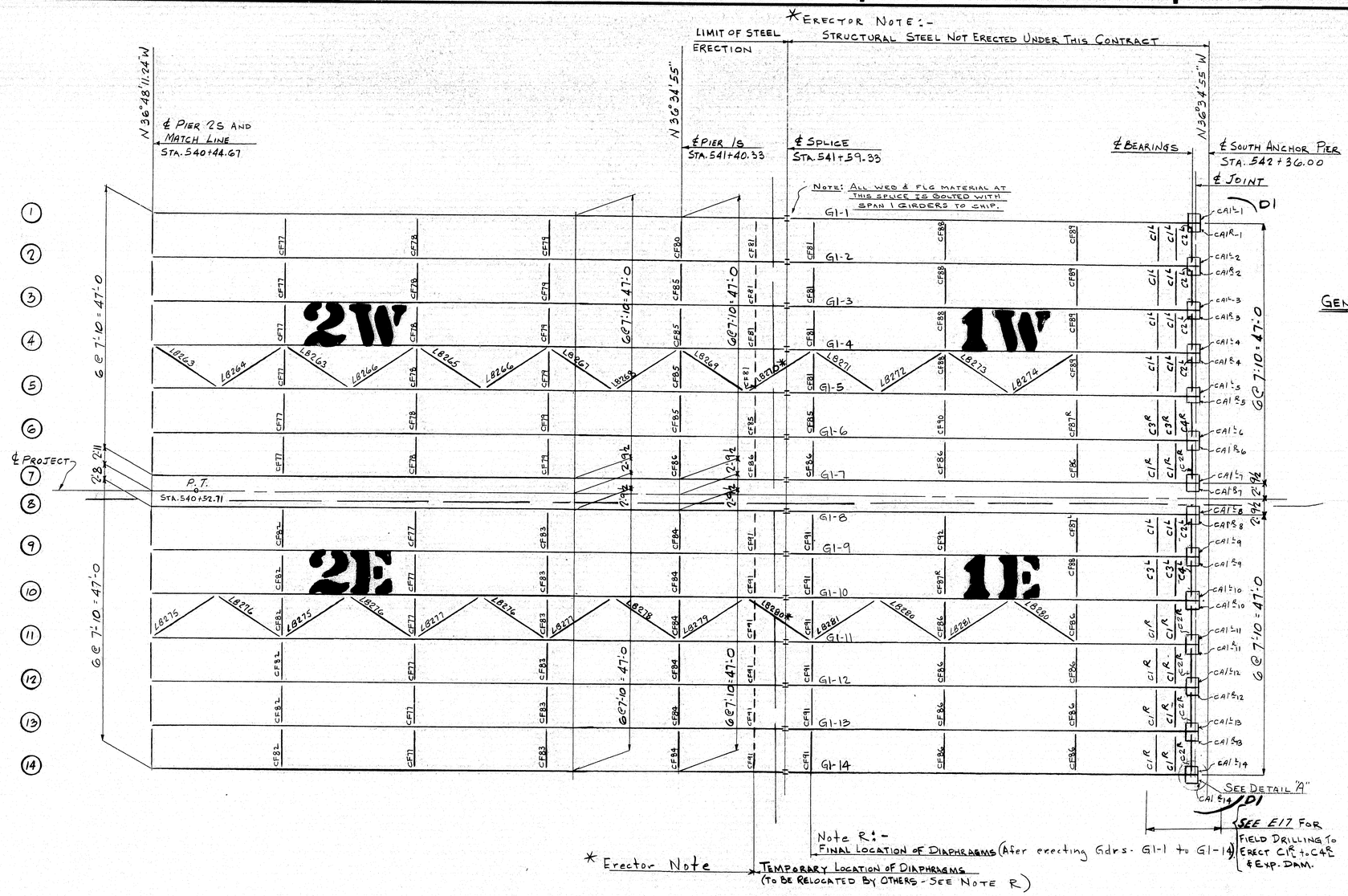
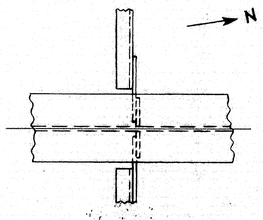
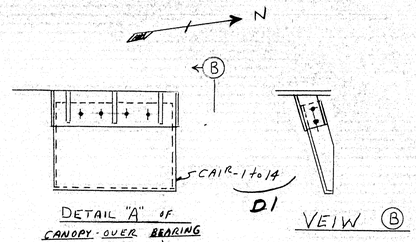



*Erector Note:- L8270 & L8280 to be stored & erected with span "1" Steel




## GENERAL NOTES:

MATERIAL - A.S.T.M. A36, A242 & SPECIAL

DESIGN, FABRICATION & ERECTION - MAINE STATE HIGHWAY COMM. JUNE, 1965 STANDARD, SPECIAL PROVISIONS, AND SUPPLEMENTAL - 1965 AASHO, AND 1966 A.W.S.

ERECTION - BY BETHLEHEM STEEL CORP., F.S.C. EASTERN DISTRICT. THE ERECTION OF 14 GIRDERS AND ALL OTHER STRUCTURAL STEEL IN THE STRUCTURE FROM STA. 541+59.33 EASTWARD TO THE SOUTH ANCHOR PIER, STA. 542+36.00 (POTTSTOWN IDENTIFICATION 1W & 1E) IS TO BE PERFORMED UNDER ANOTHER CONTRACT. (CONT. #5, B.S.C. CG-6290). THESE GIRDERS SHALL BE SUITABLY PROTECTED AND STORED IN AN UPRIGHT POSITION ON LEVEL, TIMBER BLOCKING AT LEAST 12" ABOVE THE GROUND. THE OUTSIDE GIRDERS IN EACH GROUP SO STORED SHALL BE POSITIVELY BRACED AGAINST ACCIDENTAL OVERTURNING. BLUE LACQUER COATING AROUND OPEN HOLES TO BE REMOVED BEFORE ERECTING UNDER ANOTHER CONTRACT. DIAPHRAGMS AND SPLICE MAT'L. ALSO SHALL BE STORED AT LEAST 12" ABOVE THE GROUND.

FIELD CONNECTIONS - A325 BOLTS WITH ONE HARDENED WASHER UNDER THE TURNING ELEMENT. TIGHTENING SHALL BE DONE WITH PROPERLY CALIBRATED WRENCHES OR TURN OF NUT METHOD. REQUIRED MINIMUM TENSIONING AND INSTALLATION AS PER STATE OF MAINE SPEC'S, 1965
ALL BOLTS ARE ⅞" EXCEPT THAT 1" ARE USED FOR LINK ASSEMBLIES.
ERECTOR TO BE ESPECIALLY CAREFUL IN USING ⅞" GALVANIZED A325 BOLTS ON ZINC RICH PAINT AREAS.

SHOP HIGH STRENGTH BOLTS WHICH HAVE NOT BEEN FULLY TORQUED ARE UNPAINTED ALL SUCH BOLTS ARE TO BE FULLY TORQUED BY ERECTOR.

FIELD PAINT - AFTER ERECTION OF STEEL IS COMPLETED, AND APPROPRIATE STEEL IS STORED, ALL DAMAGED PORTIONS OF THE SHOP PRIME COAT AND ZINC RICH EPOXY COAT SHALL BE TOUCHED UP WITH THE RESPECTIVE SHOP COAT IN ORDER TO GIVE ONE COMPLETE COAT OF PAINT TO ALL STEEL. ALL OTHER FIELD COATS OF PAINT TO BE APPLIED UNDER CONTRACT #5. SHOP PAINTS ARE AASHO-M72, TYPE II RED LEAD PAINT AND STEELCOTE EPO-LUX No 100 E-14 GRAY.

ALL ERECTION DIAGRAMS AND SHOP DETAIL DWGS ARE DIMENSIONED TO 68° F.

For location of details shown on this sheet refer to diagrams.

APPROVED:
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
DEC 19 1969

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT

| NO. | DATE | INIT. | REVISION |
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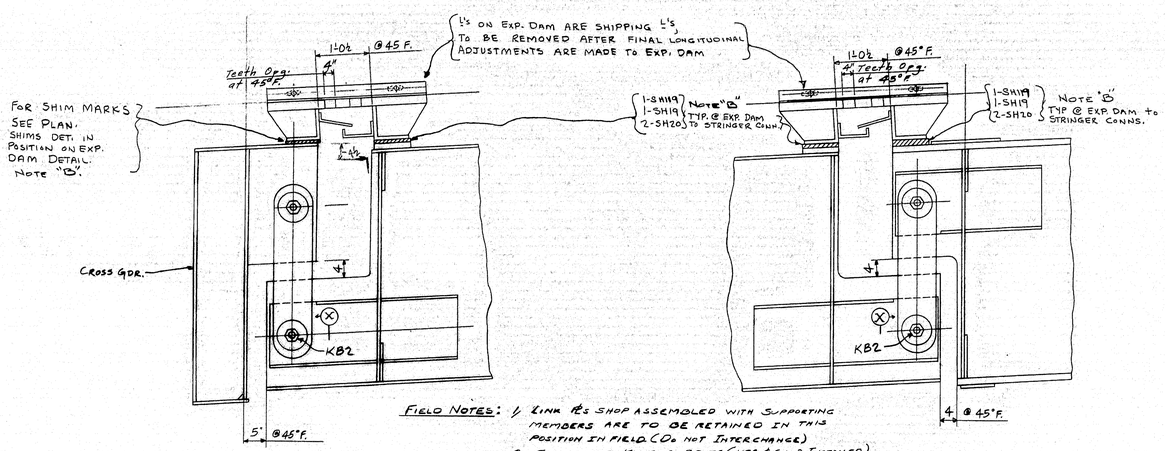
CUSTOMER
MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT No. I-95-1 (22) 16
CONT. No. 3 NEW HAMPSHIRE APPROACH
STRUCTURAL STEEL
**BETHLEHEM STEEL CORPORATION**
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY R.D.N. DATE IN CHARGE B.K. BERTOLET
CHECKED BY DATE SHOP NO.
CONTRACT CS-6249-000 DRAWING NO. E12

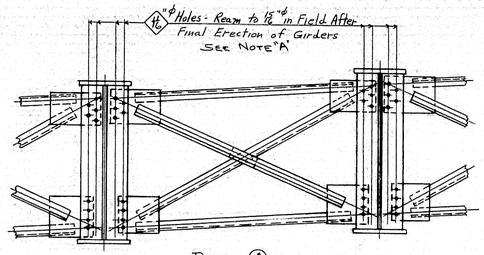
E 706-37




FIELD NOTES: 1/ LINK Rs SHOP ASSEMBLED WITH SUPPORTING MEMBERS ARE TO BE RETAINED IN THIS POSITION IN FIELD. (Do NOT INTERCHANGE)
2/ GALVANIZED KEEPER BOLTS (KB2 & SHOP INSTALLED) TO BE TIGHTENED TO A SNUG FIT. (Do NOT TORQUE). COTTER PINS TO BE INSERTED THRU NUT & BOLT.

TYPICAL SECT. AT CROSS GIRDER AT EXPAN. JOINT SHOWING LINK Rs AND PINS.

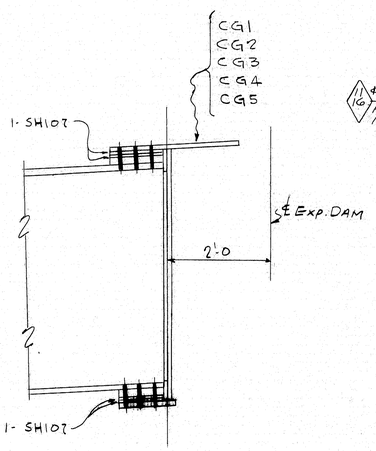
TYPICAL SECT. AT GIRDER TO GIRDER AT EXPAN. JOINT SHOWING LINK Rs AND PINS



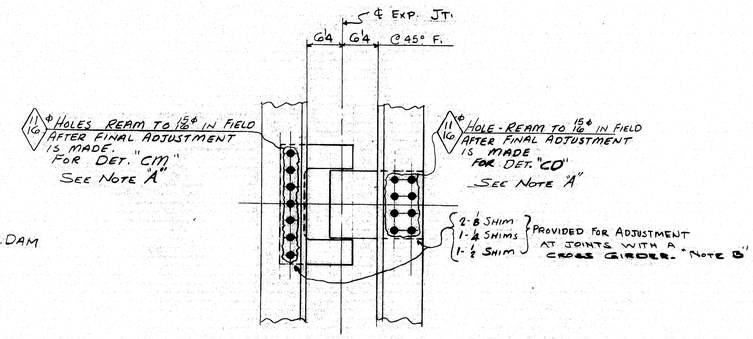

DETAIL (A) - LOOKING SOUTH
SHOWING ERECTION OF CROSS FRAMES
SEE EG, EB, E10 FOR LOCATIONS
TYPICAL INTERIOR DIAPHRAGM AT EXPANSION JOINT

NOTE "A"
REAMING OF HOLES TO BE DONE AFTER ALL ADJUSTMENTS ARE MADE SO THAT LINKS ARE VERTICAL IN A TRANSVERSE DIRECTION.

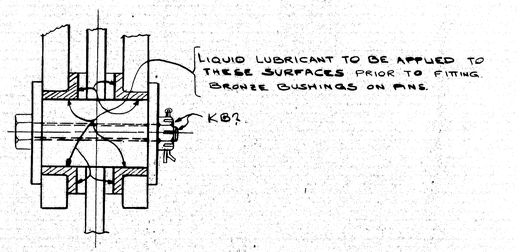
NOTE "B"
1/2" OF SHIMS HAS BEEN PROVIDED FOR A THEORETICAL 1/2" OPENING. TO PROVIDE VERTICAL ADJUSTMENT OF EXP DAMS.




TYP. SECTION OF LONGITUDINAL GIRDER
CONNECTION TO CROSS GIRDER
(SHOWING SHIMS REQUIRED)




ENL. DET. "CD" & "CM" @ CROSS GIRDERS




ENLARGED SECTION ⊗

For location of details shown on this sheet refer to diagrams.

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Arnold Hardesty JAN 5 1970

FOR GEN. NOTES SEE E12

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT

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REVISION

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| DATE | | | | | | | | | | |

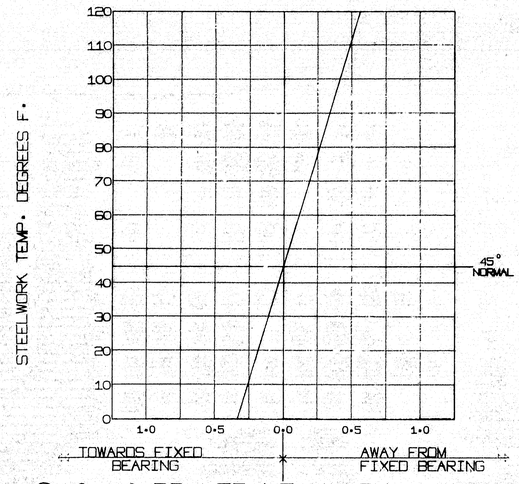
CUSTOMER: MAINE STATE HIGHWAY COMMISSION
STRUCTURE: PISCATAQUA RIVER BRIDGE
PROJECT No. I-95-1(22)16
CONT. No. 3 NEW HAMPSHIRE APP
STRUCTURAL STEEL
**BETHLEHEM STEEL CORPORATION**
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY CCM DATE IN CHARGE B.K. BERTOLET
CHECKED BY KCP DATE 9/15/69 SHOP NO.
CONTRACT CJ-6249-000 DRAWING NO. E13

26663 (1-69)

106-38-

| | a | b | c |
|---|---|---|---|
| a | | | |
| b | | | |
| c | | | |
| d | | | |
| f | | | |
| g | | | |
| h | | | |
| k | | | |
| m | | | |
| n | | | |
| p | | | |
| s | | | |
| t | | | |
| w | | | |
| y | | | |

0 1 2 3 4 5 INCHES

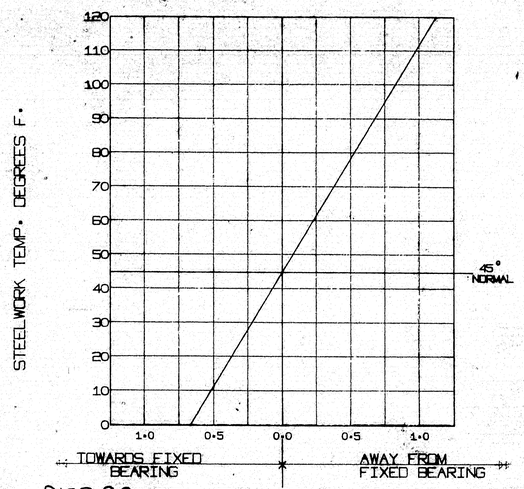



PIER 10S - ROLLER LEAN, IN.

NOTES

AT FULL DEAD LOAD AND NORMAL TEMPERATURE OF 45 DEGR. F., ROLLER LEAN WILL BE ZERO.

AT FULL STEEL LOAD, ROLLER LEAN WILL BE AS GIVEN ON THIS CHART.

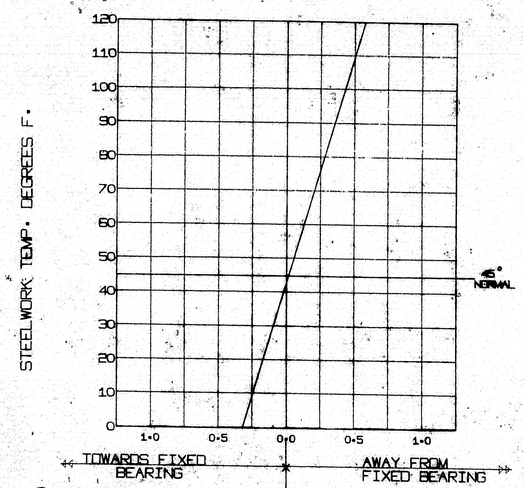



PIER 9S - ROLLER LEAN, IN.

NOTES

AT FULL DEAD LOAD AND NORMAL TEMPERATURE OF 45 DEGR. F., ROLLER LEAN WILL BE ZERO.

AT FULL STEEL LOAD, ROLLER LEAN WILL BE AS GIVEN ON THIS CHART.

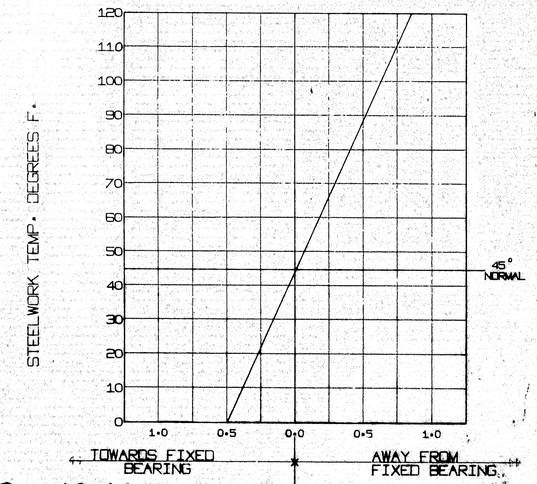



PIER 12S - ROLLER LEAN, IN.

NOTES

AT FULL DEAD LOAD AND NORMAL TEMPERATURE OF 45 DEGR. F., ROLLER LEAN WILL BE ZERO.

AT FULL STEEL LOAD, ROLLER LEAN WILL BE AS GIVEN ON THIS CHART.

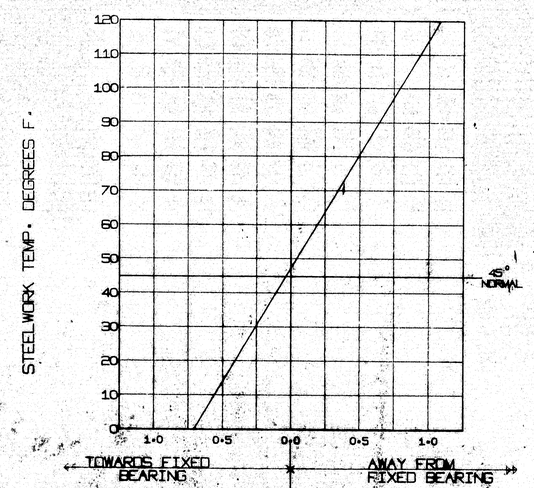



PIER 1S, 4S - ROLLER LEAN, IN.

NOTES

AT FULL DEAD LOAD AND NORMAL TEMPERATURE OF 45 DEGR. F., ROLLER LEAN WILL BE ZERO.

AT FULL STEEL LOAD, ROLLER LEAN WILL BE AS GIVEN ON THIS CHART.

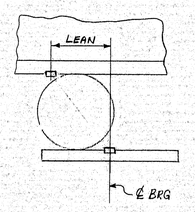



PIER 13S - ROLLER LEAN, IN.

NOTES

AT FULL DEAD LOAD AND NORMAL TEMPERATURE OF 45 DEGR. F., ROLLER LEAN WILL BE ZERO.

AT FULL STEEL LOAD, ROLLER LEAN WILL BE AS GIVEN ON THIS CHART.




TYPICAL DETAIL FOR LEAN OF ROLLERS

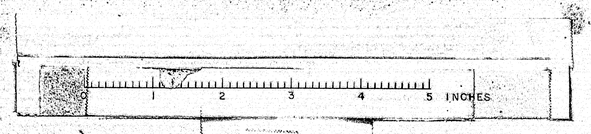
FOR GEN. NOTES SEE E12

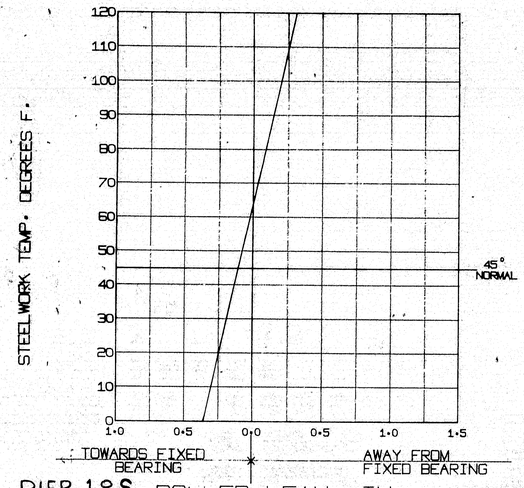
APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Arnold Hardesty
JAN 26 1970

# ROLLER LEAN CHARTS

CUSTOMER MAINE STATE HIGHWAY COMMISSION
STRUCTURE PISCATAQUA RIVER BRIDGE
PROJECT NO I-95-1(23)16
CONT NO 3 - NEW HAMPSHIRE APPROACH
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
PATTERSON DRAFTING ROOM POTTSTOWN WORKS
MADE BY WED DATE CHANGE B.V. BEATTY LET
CHECKED BY PAL DATE SHIP NO
CONTRACT CT6249 DRAWING NO. E 14

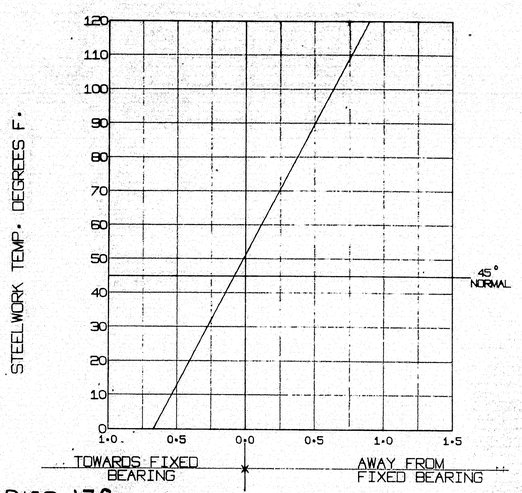
106-39





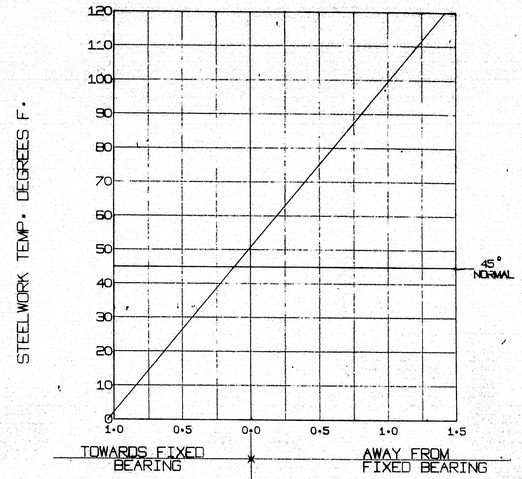

## PIER 18S - ROLLER LEAN, IN.

NOTES
AT FULL DEAD LOAD AND NORMAL TEMPERATURE OF 45 DEGR. F., ROLLER LEAN WILL BE ZERO.
AT FULL STEEL LOAD, ROLLER LEAN WILL BE AS GIVEN ON THIS CHART.



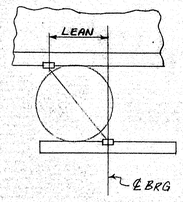

## PIER 17S - ROLLER LEAN, IN.

NOTES
AT FULL DEAD LOAD AND NORMAL TEMPERATURE OF 45 DEGR. F., ROLLER LEAN WILL BE ZERO.
AT FULL STEEL LOAD, ROLLER LEAN WILL BE AS GIVEN ON THIS CHART.

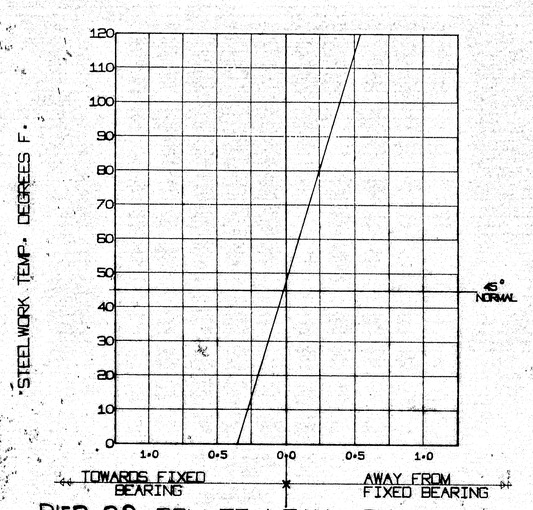



## PIER 16S - ROLLER LEAN, IN.

NOTES
AT FULL DEAD LOAD AND NORMAL TEMPERATURE OF 45 DEGR. F., ROLLER LEAN WILL BE ZERO.
AT FULL STEEL LOAD, ROLLER LEAN WILL BE AS GIVEN ON THIS CHART.

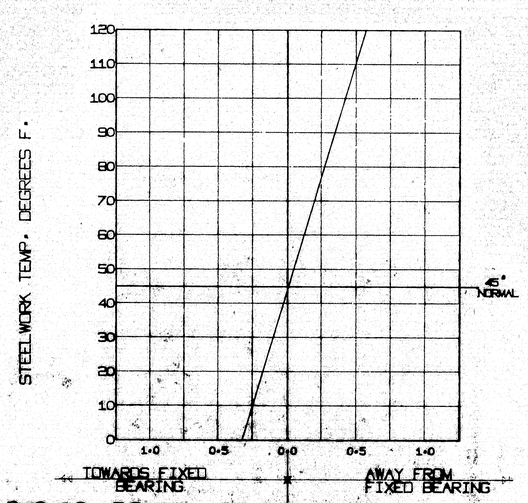



TYPICAL DETAIL FOR LEAN OF ROLLERS



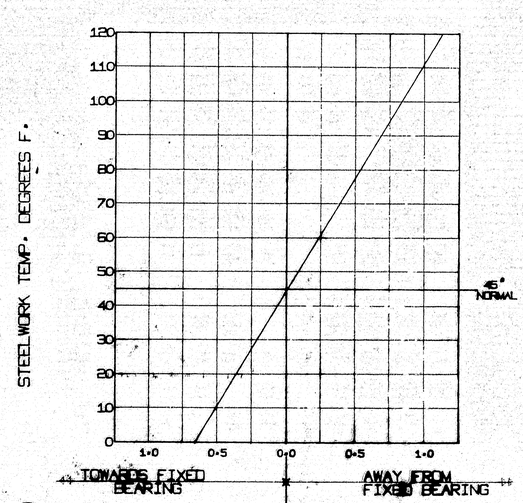

## PIER 8S - ROLLER LEAN, IN.

NOTES
AT FULL DEAD LOAD AND NORMAL TEMPERATURE OF 45 DEGR. F., ROLLER LEAN WILL BE ZERO.
AT FULL STEEL LOAD, ROLLER LEAN WILL BE AS GIVEN ON THIS CHART.




## PIER 6S, 15S - ROLLER LEAN, IN.

NOTES
AT FULL DEAD LOAD AND NORMAL TEMPERATURE OF 45 DEGR. F., ROLLER LEAN WILL BE ZERO.
AT FULL STEEL LOAD, ROLLER LEAN WILL BE AS GIVEN ON THIS CHART.




## PIER 5S - ROLLER LEAN, IN.

NOTES
AT FULL DEAD LOAD AND NORMAL TEMPERATURE OF 45 DEGR. F., ROLLER LEAN WILL BE ZERO.
AT FULL STEEL LOAD, ROLLER LEAN WILL BE AS GIVEN ON THIS CHART.

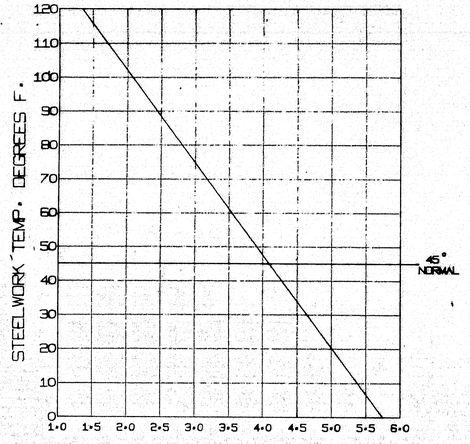
APPROVED
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
By Arnold Hardesty JAN 26 1970

FOR GEN. NOTES SEE E12

# ROLLER LEAN CHARTS

CUSTOMER: MAINE STATE HIGHWAY COMMISSION
STRUCTURE: PISCATAQUA RIVER BRIDGE
PROJECT NO I 95-1(32)16
CONT. NO 3 NEW HAMPSHIRE APPROACH
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
PATTSTOWN DRAFTING ROOM PATTSTOWN WORKS
MADE BY WEL DATE INCHARGE B.K. BERTOLET
CHECKED BY DAL DATE SHOP NO
CONTRACT CJ6249 DRAWING NO E15

106-40



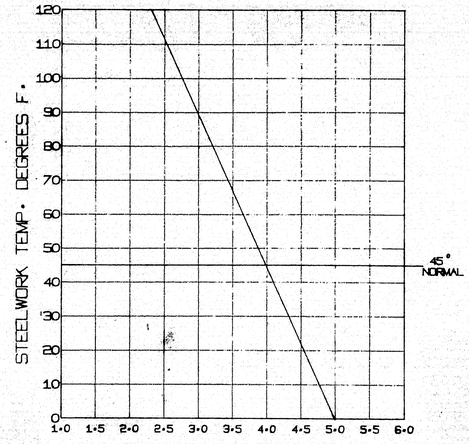

EXPANSION DAM OPENING, INCHES

PIER 16S

NOTES

AT FULL DEAD LOAD AND NORMAL TEMPERATURE OF 45 DEGR. F., EXPANSION DAM WILL BE 4·00 INCHES.

AT FULL STEEL LOAD, EXPANSION DAM OPENING WILL BE AS GIVEN ON THIS CHART.



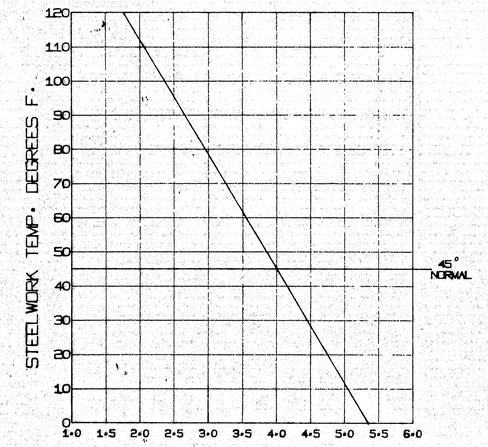

EXPANSION DAM OPENING, INCHES

PIER 13S

NOTES

AT FULL DEAD LOAD AND NORMAL TEMPERATURE OF 45 DEGR. F., EXPANSION DAM WILL BE 4·00 INCHES.

AT FULL STEEL LOAD, EXPANSION DAM OPENING WILL BE AS GIVEN ON THIS CHART.



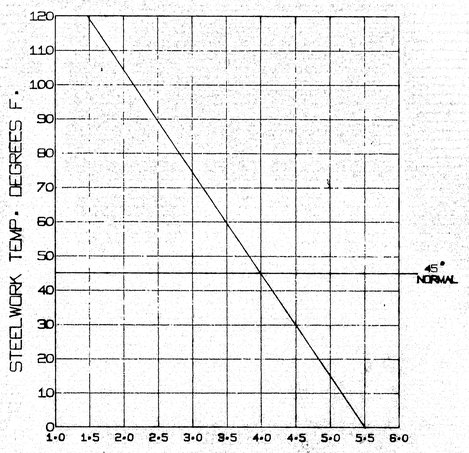

EXPANSION DAM OPENING, INCHES

PIER 2S

NOTES

AT FULL DEAD LOAD AND NORMAL TEMPERATURE OF 45 DEGR. F., EXPANSION DAM WILL BE 4·00 INCHES.

AT FULL STEEL LOAD, EXPANSION DAM OPENING WILL BE AS GIVEN ON THIS CHART.




EXPANSION DAM OPENING, INCHES

PIER 4S

NOTES

AT FULL DEAD LOAD AND NORMAL TEMPERATURE OF 45 DEGR. F., EXPANSION DAM WILL BE 4·00 INCHES.

AT FULL STEEL LOAD, EXPANSION DAM OPENING WILL BE AS GIVEN ON THIS CHART.

FOR GEN. NOTES SEE E17

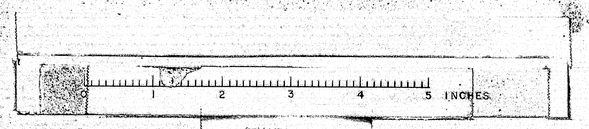
# EXPANSION DAM OPENING CHARTS

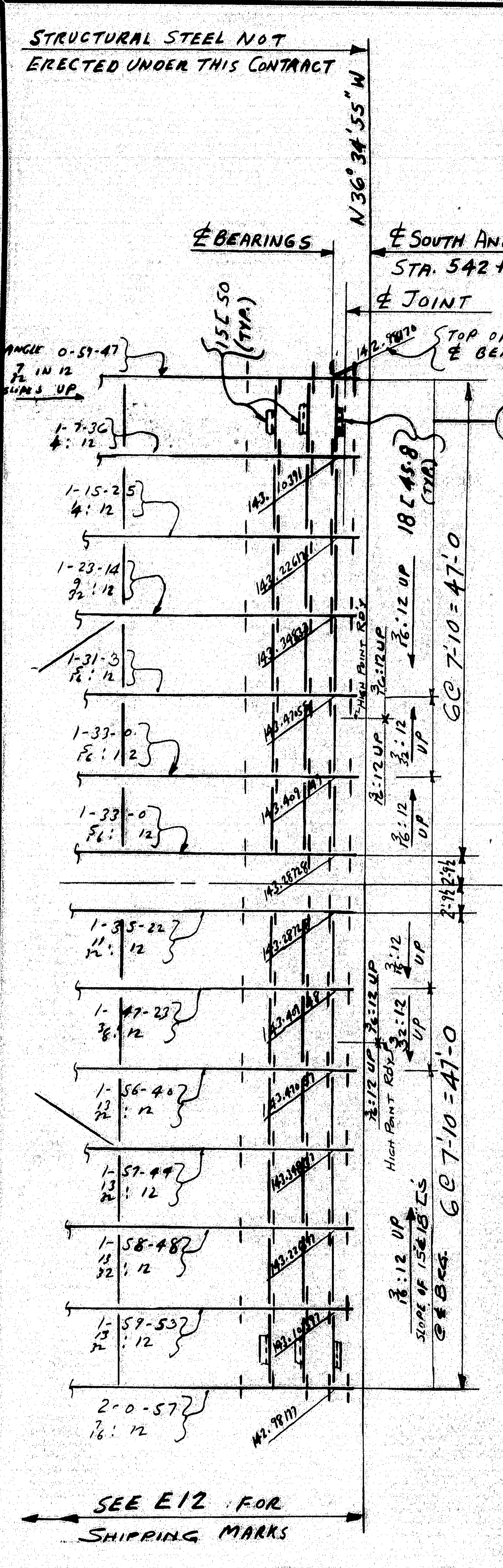
APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Arnold Hardesty JAN 7 1970

CUSTOMER MAINE STATE HIGHWAY COMMISSION
STRUCTURE PISCATAQUA RIVER BRIDGE
PROJECT NO I-95-1(22)16
CONT. NO. 3 NEW HAMPSHIRE APPROACH

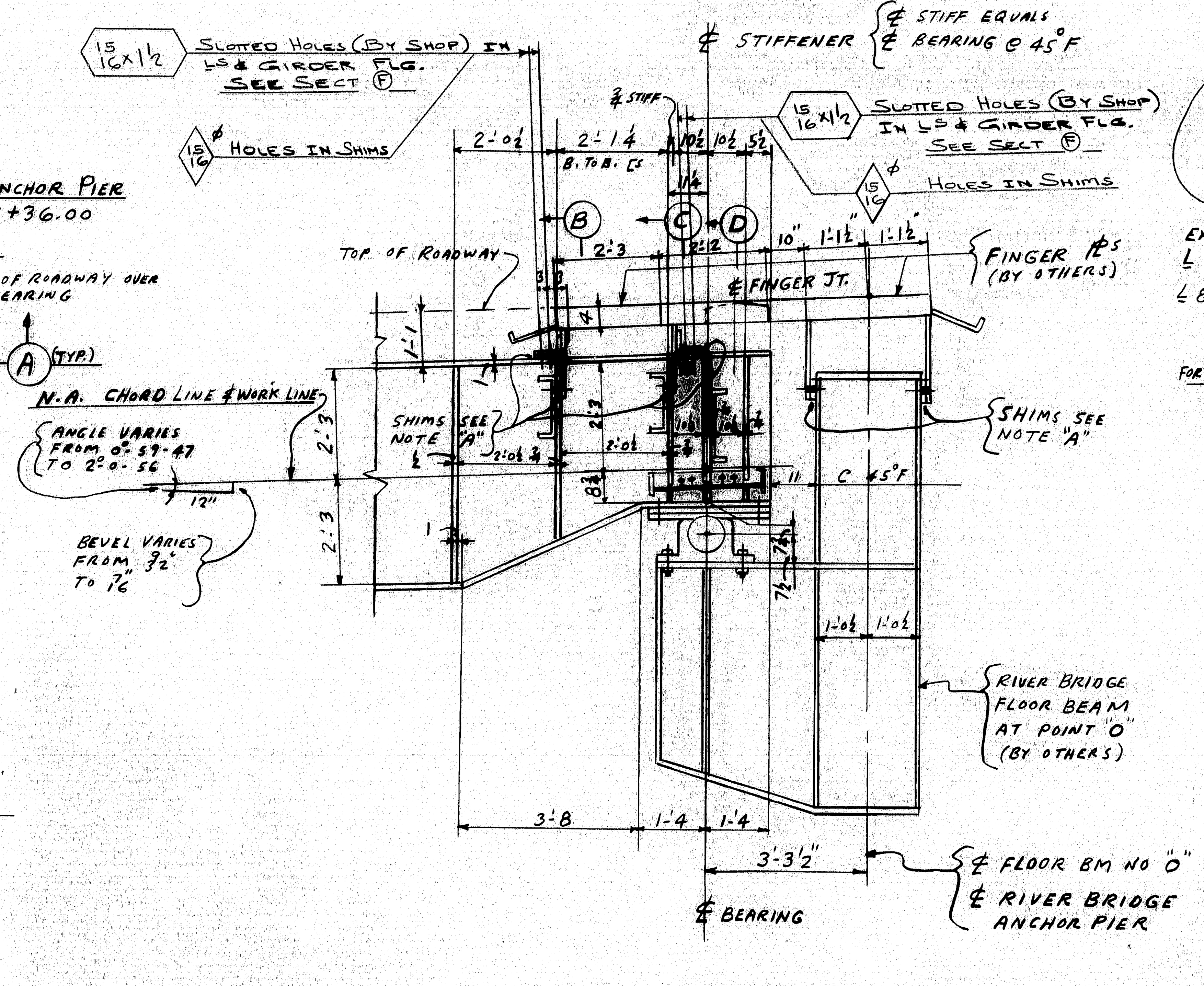
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY WEB DATE IN CHARGE B.K. BERTOLET
CHECKED BY DRL DATE SHOP NO.
CONTRACT CJ 6249 DRAWING NO E16

106-44

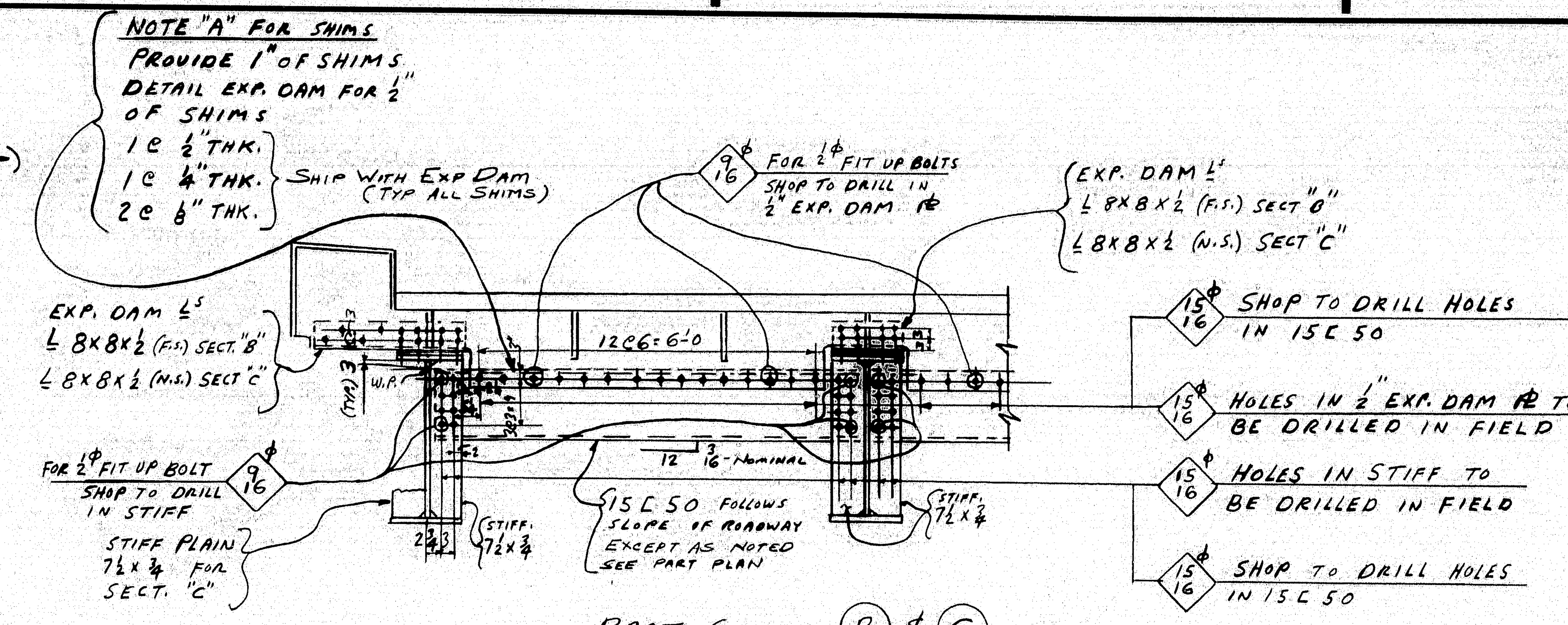




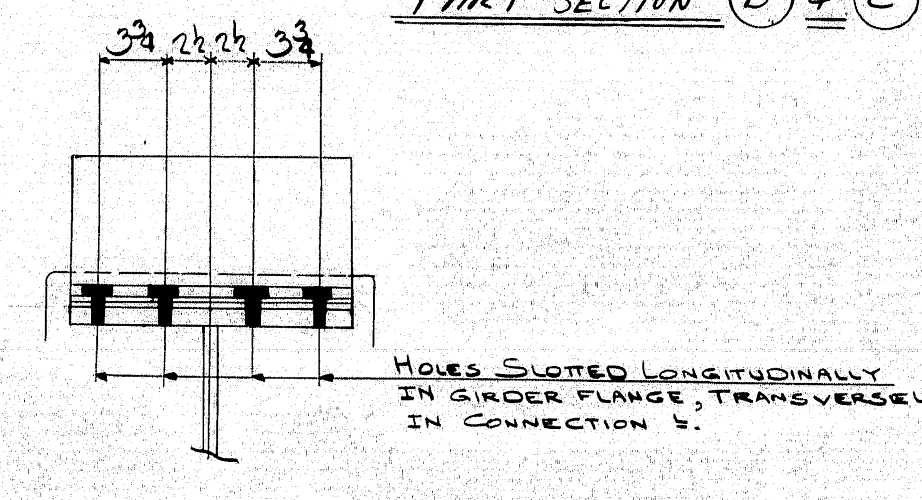

PART-PLAN AT SOUTH ANCHOR PIER



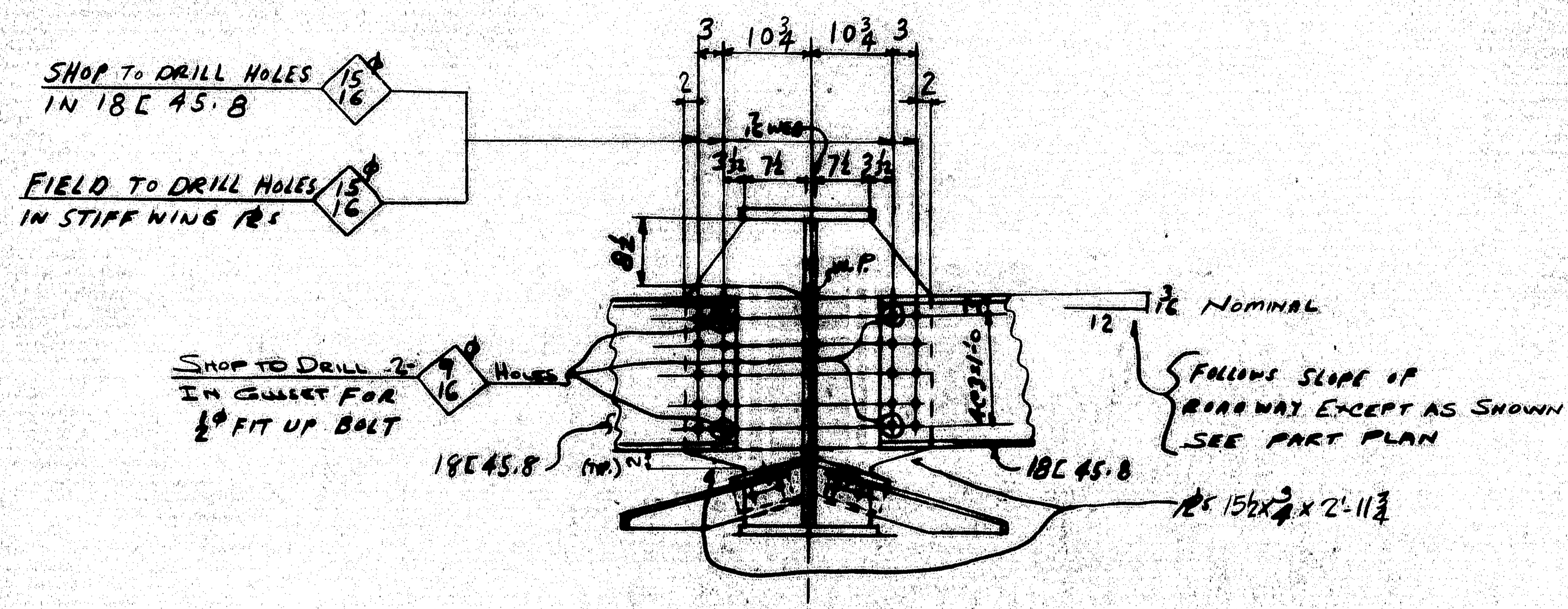

(TYP.) SECTION A




PART SECTION B & C




SECTION F




(TYP.) SECTION D

FOR GEN. NOTES SEE E12

For location of details shown on this sheet refer to diagrams.

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY [signature] JAN 5 1970
JAN 5 1970

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT

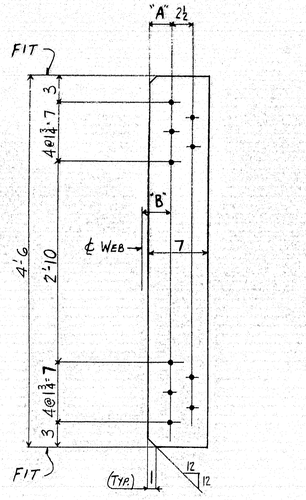
| SUBMITTAL | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|
| DATE | | | | | | | | | | |

| NO. | DATE | INIT. |
|---|---|---|
| 0 | | |
| 9 | | |
| 8 | | |
| 7 | | |
| 6 | | |
| 5 | | |
| 4 | | |
| 3 | | |
| 2 | | |
| 1 | | |

REVISION

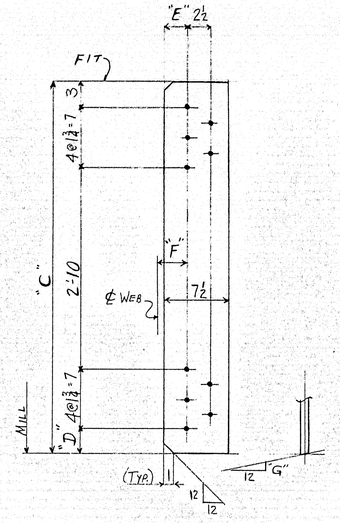
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT NO. I-95-1(22) 16
CONT. NO. 3 NEW HAMPSHIRE APPROACH
STRUCTURAL STEEL
**BETHLEHEM STEEL CORPORATION**
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY E DATE 9-29-69 IN CHARGE B.K. BERTOLET
CHECKED BY RLP DATE 9-30-69 SHOP NO.
CONTRACT CJ-6249-000 DRAWING NO. E17

34483 (1-65)
106-42



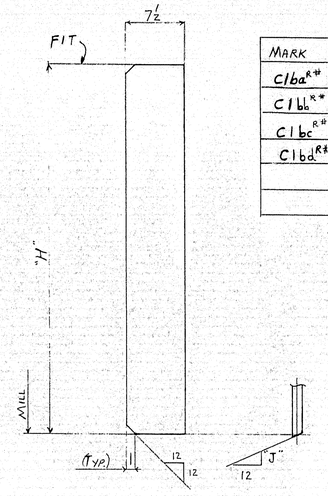

| MARK | "A" | "B" |
|---|---|---|
| C1a* | 2 15/32 | 2 11/16 |
| C1b* | 2 17/32 | 2 3/4 |
| C1c* | 2 19/32 | 2 13/16 |
| C1d* | 2 21/32 | 2 7/8 |
| C1f* | 2 23/32 | 2 15/16 |
| C1g* | 2 25/32 | 3 |
| C1h* | 2 27/32 | 3 1/16 |
| C1k* | 2 29/32 | 3 1/8 |
| C1m* | 2 31/32 | 3 3/16 |
| C1n* | 3 1/32 | 3 1/4 |
| C1p* | 3 3/32 | 3 5/16 |

INTERIOR STIFFENERS
C1a* to C1p* Incl.



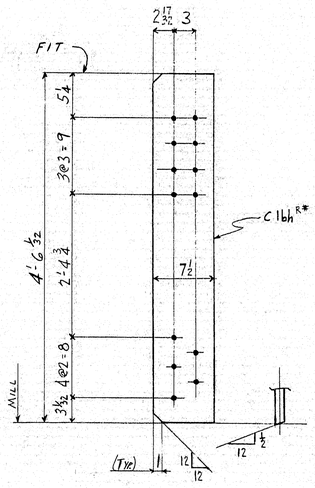

| MARK | C | D | E | F | G |
|---|---|---|---|---|---|
| Caa R* | 4'-6 | 3 | 2 7/16 | 2 1/16 | 1/4 |
| Cab R* | 4'-6 | 3 | 2 1/2 | 2 3/4 | 1/4 |
| Cac R* | 4'-6 | 3 | 2 7/16 | 2 1/16 | 3/8 |
| Cad R* | 4'-6 | 3 | 2 1/2 | 2 3/4 | 3/8 |
| Caf R* | 4'-6 1/32 | 3 1/32 | 2 7/16 | 2 1/16 | 1/2 |
| Cag R* | 4'-6 1/32 | 3 1/32 | 2 1/2 | 2 3/4 | 1/2 |
| Cah R* | 4'-6 1/32 | 3 1/32 | 2 9/16 | 2 13/16 | 1/2 |
| Cak R* | 4'-6 1/32 | 3 1/32 | 2 5/8 | 2 7/8 | 1/2 |
| Cam R* | 4'-6 1/32 | 3 1/32 | 2 3/4 | 3 | 1/2 |
| Can R* | 4'-6 1/32 | 3 1/32 | 2 13/16 | 3 1/16 | 1/2 |
| Cap R* | 4'-6 1/32 | 3 1/32 | 2 7/8 | 3 1/8 | 1/2 |
| Cas R* | 4'-6 1/32 | 3 1/32 | 2 15/16 | 3 3/16 | 1/2 |
| Cat R* | 4'-6 1/32 | 3 1/32 | 3 | 3 1/4 | 1/2 |
| Caw R* | 4'-6 1/16 | 3 1/16 | 2 1/2 | 2 3/4 | 5/8 |

PIER STIFFENERS
Caa R* to Caw R* Incl.




| MARK | H | J |
|---|---|---|
| C1ba R* | 4'-6 | 1/4 |
| C1bb R* | 4'-6 | 3/8 |
| C1bc R* | 4'-6 3/32 | 1/2 |
| C1bd R* | 4'-6 1/16 | 5/8 |

STIFFENERS AT PIERS & ABUT. AT FACIA
C1ba R* to C1bd R* Incl.




ABUT. STIFFENERS
(C1bh R*)

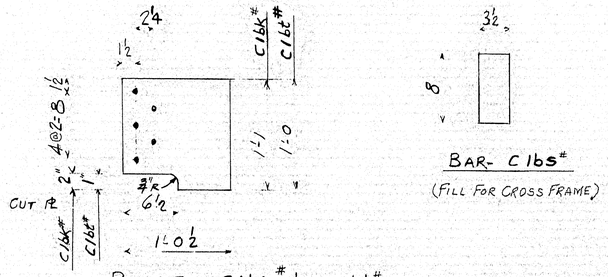



PLATE- C1bk* & C1bt#
(CROSS FRAME @ RADIAL SPLICE)

BAR- C1bs#
(FILL FOR CROSS FRAME)

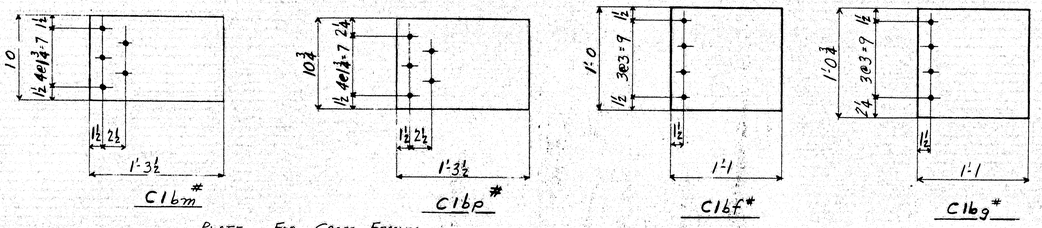



PLATE FOR CROSS FRAMES

PLATE FOR CROSS FRAMES

| | a | b | c |
|---|---|---|---|
| a | | | |
| b | | | |
| c | | | |
| d | | | |
| f | | | |
| g | | | |
| h | | | |
| k | | | |
| m | | | |
| n | | | |
| p | | | |
| s | | | |
| t | | | |
| w | | | |
| y | | | |

MATERIAL · ASTM · A36

NOTE { N.S. STIFF. ON GDR'S - RIGHT
F.S. " " " - LEFT

APPROVED:
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
SEP 30 1969

RIVETS
OPEN HOLES
REAM
MILLING · AS NOTED
PAINT - NONE
WELDING - NONE
SHOP CONTACT SURFACES

STIFFENERS FOR STRINGERS

MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT NO. I-95-1 (22) 16

BETHLEHEM STEEL CORP
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM Pottstown WORKS
IN CHARGE Bartlett MADE BY DEW
CHECKED BY E TRACED BY
REVISED LAST ASSEM. MK.

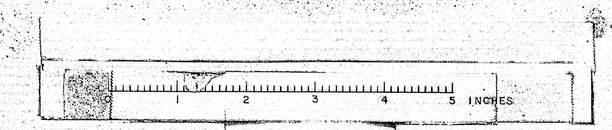
| | |
|---|---|
| TEMP. | |
| BUFF. | |
| LAYOUT | |
| FITTER | |
| SHOP INSP. | |
| PD. WK. | |
| R. SMITH | |
| INCH. | |
| ERECT. | |
| O. INSP. | |
| WEIGHTS | |

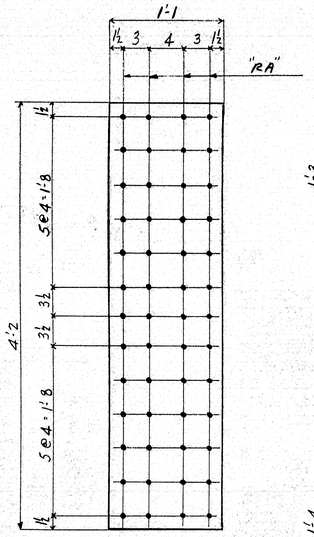
SHOP NO. 2 CONTRACT CJG249 SHEET JS1

INSP#1-1 106-43

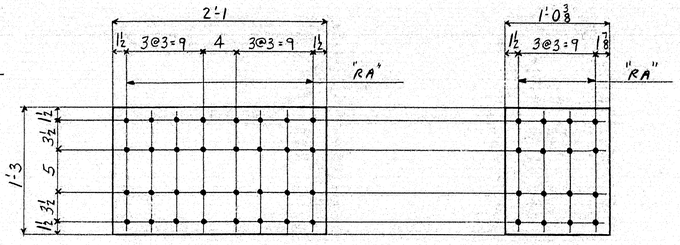
SHOP BILL / MILL ORDER

| LINE | ASSEMBLY MARK | NO. | SHAPE | SECTION Size | SECTION Size or Pound | SECTION Thick | LENGTH ft. | LENGTH in. | REMARKS | MILL ORDER LENGTH ft. | MILL ORDER LENGTH in. | MILL ORDER ITEM Preps | MILL ORDER ITEM Lbs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | C1a* | | BR | 7 | | ½ | 4 | 6 | F2E | | | | |
| 2 | C1b* | | BR | 7 | | ½ | 4 | 6 | F2E | | | | |
| 3 | C1c* | | BR | 7 | | ½ | 4 | 6 | F2E | | | | |
| 4 | C1d* | | BR | 7 | | ½ | 4 | 6 | F2E | | | | |
| 5 | C1f* | | BR | 7 | | ½ | 4 | 6 | F2E | | | | |
| 6 | C1g* | | BR | 7 | | ½ | 4 | 6 | F2E | | | | |
| 7 | C1h* | | BR | 7 | | ½ | 4 | 6 | F2E | | | | |
| 8 | C1k* | | BR | 7 | | ½ | 4 | 6 | F2E | | | | |
| 9 | C1m* | | BR | 7 | | ½ | 4 | 6 | F2E | | | | |
| 10 | C1n* | | BR | 7 | | ½ | 4 | 6 | F2E | | | | |
| 11 | C1p* | | BR | 7 | | ½ | 4 | 6 | F2E | | | | |
| 12 | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |
| 17 | Caa R* | | BR | 7½ | | ¾ | 4 | 6 | MIE FIE | | | | |
| 18 | Cab R* | | BR | 7½ | | ¾ | 4 | 6 | MIE FIE | | | | |
| 19 | Cac R* | | BR | 7½ | | ¾ | 4 | 6 | MIE FIE | | | | |
| 20 | Cad R* | | BR | 7½ | | ¾ | 4 | 6 | MIE FIE | | | | |
| 21 | Caf R* | | BR | 7½ | | ¾ | 4 | 6 1/32 | MIE FIE | | | | |
| 22 | Cag R* | | BR | 7½ | | ¾ | 4 | 6 1/32 | MIE FIE | | | | |
| 23 | Cah R* | | BR | 7½ | | ¾ | 4 | 6 1/32 | MIE FIE | | | | |
| 24 | Cak R* | | BR | 7½ | | ¾ | 4 | 6 1/32 | MIE FIE | | | | |
| 25 | Cam R* | | BR | 7½ | | ¾ | 4 | 6 1/32 | MIE FIE | | | | |
| 26 | Can R* | | BR | 7½ | | ¾ | 4 | 6 1/32 | MIE FIE | | | | |
| 27 | Cap R* | | BR | 7½ | | ¾ | 4 | 6 1/32 | MIE FIE | | | | |
| 28 | Cas R* | | BR | 7½ | | ¾ | 4 | 6 1/32 | MIE FIE | | | | |
| 29 | Cat R* | | BR | 7½ | | ¾ | 4 | 6 1/32 | MIE FIE | | | | |
| 30 | Caw R* | | BR | 7½ | | ¾ | 4 | 6 1/16 | MIE FIE | | | | |
| 31 | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | | |
| 34 | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | | |
| 37 | C1ba R* | | BR | 7½ | | ¾ | 4 | 6 | MIE FIE | | | | |
| 38 | C1bb R* | | BR | 7½ | | ¾ | 4 | 6 | MIE FIE | | | | |
| 39 | C1bc R* | | BR | 7½ | | ¾ | 4 | 6 1/32 | MIE FIE | | | | |
| 40 | C1bd R* | | BR | 7½ | | ¾ | 4 | 6 1/16 | MIE FIE | | | | |
| 41 | C1bf* | | PL | 12 | | ½ | 1 | 1 | | | | | |
| 42 | C1bg* | | PL | 12 3/4 | | ½ | 1 | 1 | | | | | |
| 43 | C1bh R* | | BR | 7½ | | ¾ | 4 | 6 1/32 | MIE FIE | | | | |
| 44 | C1bk* | | PL | 12½ | | ½ | 1 | 1 | | | | | |
| 45 | C1bs* | | BR | 3½ | | ½ | 0 | 8 | | | | | |
| 46 | C1bt* | | PL | 12½ | | ½ | 1 | 0 | | | | | |
| 47 | C1bm* | | PL | 10 | | ½ | 1 | 3½ | | | | | |
| 48 | C1bp* | | PL | 10¾ | | ½ | 1 | 3½ | | | | | |
| 49 | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | | |
| 53 | | | | | | | | | | | | | |

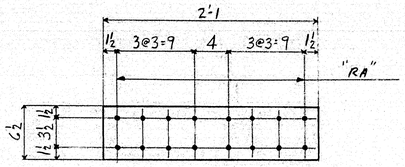





SPLICE PLATE C2a*
STRAIGHT STRINGER SPLICE

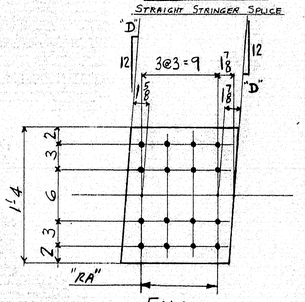



FILL
C2ak* to C29b# Incl.
BENT STRINGER SPLICE



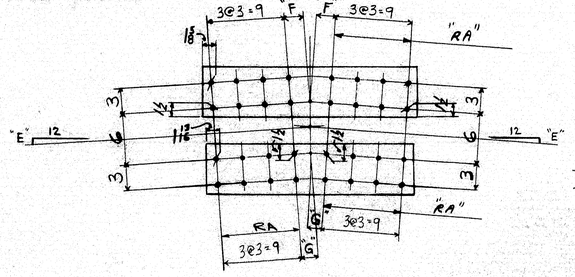

SPLICE PLATE- C2h* C2k*
STRAIGHT STRINGER SPLICE

SPLICE PLATE
C2b* C2c*
STRAIGHT STRINGER SPLICE



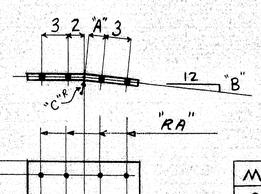

| MARK | "D" | Thk. |
|---|---|---|
| C2ak* | 7/16 | 5/8 |
| | | |
| C2am* | 7/32 | 1/2 |
| C2ap* | 7/32 | 5/8 |
| C2as* | 7/32 | 3/4 |
| | | |
| | | |
| | | |
| C2ba* | 1/8 | 1/4 |
| C2bb* | 1/4 | 5/16 |
| C2bc* | 1/4 | 1/2 |
| C2bd* | 1/4 | 5/8 |
| C2bf* | 1/4 | 3/4 |
| | | |
| C2bh* | 5/32 | 1/2 |
| C2bk* | 5/32 | 3/8 |
| C2bm* | 5/32 | 1/2 |
| C2bn* | 5/32 | 5/8 |
| C2bp* | 5/32 | 3/4 |
| C2bs* | 5/32 | 7/8 |
| C2bt* | 5/16 | 1/4 |
| C2bw* | 5/16 | 3/8 |
| C2by* | 5/16 | 1/2 |
| C29a* | 5/16 | 5/8 |
| C29b* | 5/16 | 3/4 |
| | | |
| | | |
| | | |

FILL
C2d* C2f* C2g* C2dc*
STRAIGHT STRINGER SPLICE

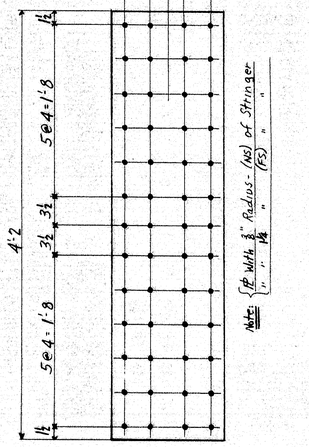



SPLICE PLATES
C2cb* to C2df# Incl.
BENT STRINGER SPLICES

| MARK | "E" | "F" | "G" |
|---|---|---|---|
| C2cb* | 7/16 | 2½ | |
| C2cc* | 7/16 | | 1 15/16 |
| C2cd* | 13/64 | 2½ | |
| C2cf* | 13/64 | | 1 15/16 |
| C2cg* | 7/32 | 2½ | |
| C2ch* | 7/32 | | 1 15/16 |
| C2ck* | 15/64 | 2½ | |
| C2cm* | 15/64 | | 1 15/16 |
| C2cn* | 1/4 | 2½ | |
| C2cp* | 1/4 | | 1 15/16 |
| C2cs* | 17/64 | 2½ | |
| C2ct* | 17/64 | | 1 15/16 |
| C2cw* | 9/32 | 2½ | |
| C2cy* | 9/32 | | 1 15/16 |
| C2da* | 19/64 | 2½ | |
| C2db* | 19/64 | | 1 15/16 |
| C2dd* | 5/16 | 2½ | |
| C2df* | 5/16 | | 1 15/16 |




| | a | b | c |
|---|---|---|---|
| x | | | |
| b | | | |
| y | | | |
| d | | | |
| f | | | |
| g | | | |
| h | | | |
| k | | | |
| m | | | |
| n | | | |
| p | | | |
| e | | | |
| t | | | |
| w | | | |
| y | | | |




Note: ⅛" Min. Radius - Ins. of Stringer
¼" " " - Fls. " "

| MARK | A | B | C |
|---|---|---|---|
| C2m* | 2 | 13/32 | 3/8 |
| C2n* | 2½ | 13/32 | 1¼ |
| C2p* | 2 | 7/16 | 3/8 |
| C2s* | 2½ | 7/16 | 1¼ |
| C2t* | 2 | 15/32 | 3/8 |
| C2w* | 2½ | 15/32 | 1¼ |
| C2y* | 2 | ½ | 3/8 |
| C2aa* | 2½ | ½ | 1¼ |
| C2ab* | 2 | 17/32 | 3/8 |
| C2ac* | 2½ | 17/32 | 1¼ |
| C2ad* | 2 | 9/16 | 3/8 |
| C2af* | 2½ | 9/16 | 1¼ |
| C2ag* | 2 | 19/32 | 3/8 |
| C2ah* | 2½ | 19/32 | 1¼ |
| C2fa* | 2 | ⅝ | ⅜ |
| C2fb* | 2½ | ⅝ | 1¼ |
| C2fc* | 2 | ⅜ | ⅜ |
| C2fd* | 2½ | ⅜ | 1¼ |

SPLICE PLATE
C2m* to C2fd* Incl.
BENT STRINGER SPLICE

## SHOP BILL

| LINE # | ASSEMBLY MARK | NO. | SHAPE | SECTION Size | SECTION Size or Pounds | SECTION Thick | LENGTH Ft. | LENGTH In. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | C2a* | | PL | 13 | | 3/8 | 4 | 2 | |
| 2 | C2b* | | PL | 15 | | 1/2 | 2 | 1 | |
| 3 | C2c* | | PL | 15 | | 5/8 | 2 | 1 | |
| 4 | | | | | | | | | |
| 5 | C2d* | | PL | 15 | | 1/2 | 1 | 0 3/8 | |
| 6 | C2f* | | PL | 15 | | 5/8 | 1 | 0 3/8 | |
| 7 | C2g* | | PL | 15 | | 7/8 | 1 | 0 3/8 | |
| 8 | C2dc* | | PL | 15 | | 3/8 | 1 | 0 3/8 | |
| 9 | C2h* | | BR | 6½ | | ½ | 2 | 1 | |
| 10 | C2k* | | BR | 6½ | | 5/8 | 2 | 1 | |
| 11 | | | | | | | | | |
| 12 | C2m* | | PL | 13 | | 3/8 | 4 | 2 | Bent |
| 13 | C2n* | | PL | 13 | | 3/8 | 4 | 2 | Bent |
| 14 | C2P* | | PL | 13 | | 3/8 | 4 | 2 | Bent |
| 15 | C2s* | | PL | 13 | | 3/8 | 4 | 2 | Bent |
| 16 | C2t* | | PL | 13 | | 3/8 | 4 | 2 | Bent |
| 17 | C2w* | | PL | 13 | | 3/8 | 4 | 2 | Bent |
| 18 | C2y* | | PL | 13 | | 3/8 | 4 | 2 | Bent |
| 19 | C2aa* | | PL | 13 | | 3/8 | 4 | 2 | Bent |
| 20 | C2ab* | | PL | 13 | | 3/8 | 4 | 2 | Bent |
| 21 | C2ac* | | PL | 13 | | 3/8 | 4 | 2 | Bent |
| 22 | C2ad* | | PL | 13 | | 3/8 | 4 | 2 | Bent |
| 23 | C2af* | | PL | 13 | | 3/8 | 4 | 2 | Bent |
| 24 | C2ag* | | PL | 13 | | 3/8 | 4 | 2 | Bent |
| 25 | C2ah* | | PL | 13 | | 3/8 | 4 | 2 | Bent |
| 26 | | | | | | | | | |
| 27 | C2ak* | | PL | 16 | | 5/8 | 1 | 0 3/4 | |
| 28 | | | | | | | | | |
| 29 | C2am* | | PL | 16 | | 1/2 | 1 | 0 31/32 | |
| 30 | C2ap* | | PL | 16 | | 5/8 | 1 | 0 31/32 | |
| 31 | C2as* | | PL | 16 | | 3/4 | 1 | 0 31/32 | |
| 32 | | | | | | | | | |
| 33 | | | | | | | | | |
| 34 | | | | | | | | | |
| 35 | C2ba* | | PL | 16 | | 1/4 | 1 | 0 31/32 | |
| 36 | C2bb* | | PL | 16 | | 5/16 | 1 | 0 31/32 | |
| 37 | C2bc* | | PL | 16 | | 1/2 | 1 | 0 31/32 | |
| 38 | C2bd* | | PL | 16 | | 5/8 | 1 | 0 31/32 | |
| 39 | C2bf* | | PL | 16 | | 3/4 | 1 | 0 31/32 | |
| 40 | | | | | | | | | |
| 41 | C2bh* | | PL | 16 | | 1/4 | 1 | 0 7/8 | |
| 42 | C2bk* | | PL | 16 | | 3/8 | 1 | 0 7/8 | |
| 43 | C2bm* | | PL | 16 | | 1/2 | 1 | 0 7/8 | |
| 44 | C2bn* | | PL | 16 | | 5/8 | 1 | 0 7/8 | |
| 45 | C2bp* | | PL | 16 | | 3/4 | 1 | 0 7/8 | |
| 46 | C2bs* | | PL | 16 | | 7/8 | 1 | 0 7/8 | |
| 47 | C2bt* | | PL | 16 | | 1/4 | 1 | 0 31/32 | |
| 48 | C2bw* | | PL | 16 | | 3/8 | 1 | 0 31/32 | |
| 49 | C2by* | | PL | 16 | | 1/2 | 1 | 0 31/32 | |
| 50 | C29a* | | PL | 16 | | 5/8 | 1 | 0 31/32 | |
| 51 | C29b* | | PL | 16 | | 3/4 | 1 | 0 31/32 | |
| 52 | | | | | | | | | |
| 53 | | | | | | | | | |
| 54 | | | | | | | | | |
| 55 | C2cb* | | BR | 6½ | | ½ | 2 | 1½ | |
| 56 | C2cc* | | BR | 6½ | | ½ | 2 | 1½ | |
| 57 | C2cd* | | BR | 6½ | | ½ | 2 | 1½ | |
| 58 | C2cf* | | BR | 6½ | | ½ | 2 | 1½ | |
| 59 | C2cg* | | BR | 6½ | | ½ | 2 | 1½ | |
| 60 | C2ch* | | BR | 6½ | | ½ | 2 | 1½ | |
| 61 | C2ck* | | BR | 6½ | | ½ | 2 | 1½ | |
| 62 | C2cm* | | BR | 6½ | | ½ | 2 | 1½ | |
| 63 | C2cn* | | BR | 6½ | | ½ | 2 | 1½ | |
| 64 | C2cp* | | BR | 6½ | | ½ | 2 | 1½ | |
| 65 | C2cs* | | BR | 6½ | | ½ | 2 | 1½ | |
| 66 | C2ct* | | BR | 6½ | | ½ | 2 | 1½ | |
| 67 | C2cw* | | BR | 6½ | | ½ | 2 | 1½ | |
| 68 | C2cy* | | BR | 6½ | | ½ | 2 | 1½ | |
| 69 | C2da* | | BR | 6½ | | ½ | 2 | 1½ | |
| 70 | C2db* | | BR | 6½ | | ½ | 2 | 1½ | |
| 71 | C2dd* | | BR | 6½ | | ½ | 2 | 1½ | |
| 72 | C2df* | | BR | 6½ | | ½ | 2 | 1½ | |
| 73 | | | | | | | | | |
| 74 | | | | | | | | | |
| 75 | | | | | | | | | |
| 76 | | | | | | | | | |
| 77 | C2fa | | PL | 13 | | 3/8 | 4 | 2 | BENT |
| 78 | C2fb | | PL | 13 | | 3/8 | 4 | 2 | BENT |
| 79 | C2fc | | PL | 13 | | 3/8 | 4 | 2 | BENT |
| 80 | C2fd | | PL | 13 | | 3/8 | 4 | 2 | BENT |
| 81 | | | | | | | | | |
| 82 | | | | | | | | | |
| 83 | | | | | | | | | |
| 84 | | | | | | | | | |
| 85 | | | | | | | | | |
| 86 | | | | | | | | | |
| 87 | | | | | | | | | |
| 88 | | | | | | | | | |
| 89 | | | | | | | | | |
| 90 | | | | | | | | | |
| 91 | | | | | | | | | |
| 92 | | | | | | | | | |

## MILL ORDER

| LENGTH Ft. | LENGTH In. | ITEM Page | ITEM Line |
|---|---|---|---|
| | | | |

SPLICE PLATES & FILLS AT SPLICES

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED ¼" [illegible] TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

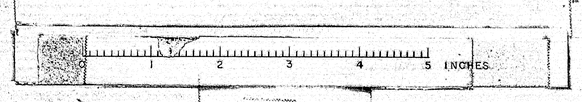
APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S.S. Nishimura
OCT 1 1969

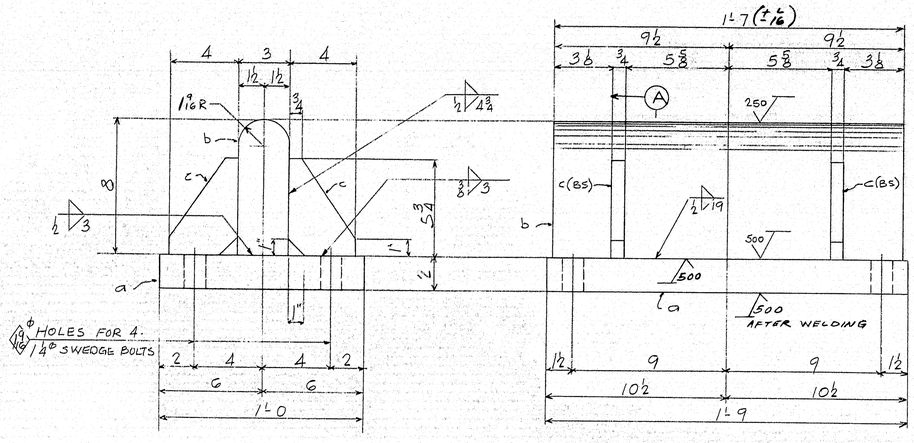
MATERIAL - ASTM - A36
RIVETS - NONE
OPEN HOLES 15/16" ϕ
REAM
MILLING
PAINT
WELDING
SHOP CONTACT SURFACES

| | |
|---|---|
| TEMP. | |
| SUPT. | |
| LAYOUT | |
| FITTER | |
| SHOP INSP. | |
| PC. WK. | |
| B. SMITH | |
| MOH. | |
| ERECT. | |
| O. INSP. | |
| WEIGHTS | |

MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT NO. I-95-1(24)76
CONT. #3 NEW HAMPSHIRE APPROACH
STRUCTURAL STEEL
BETHLEHEM STEEL CORP
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM Pottstown WORKS
IN CHARGE Seatolet MADE BY DEW
CHECKED BY [illegible] TRACED BY
REVISED LAST ASSEM. MK.
SHOP NO. 2
CONTRACT CJ 6249
SHEET JS2

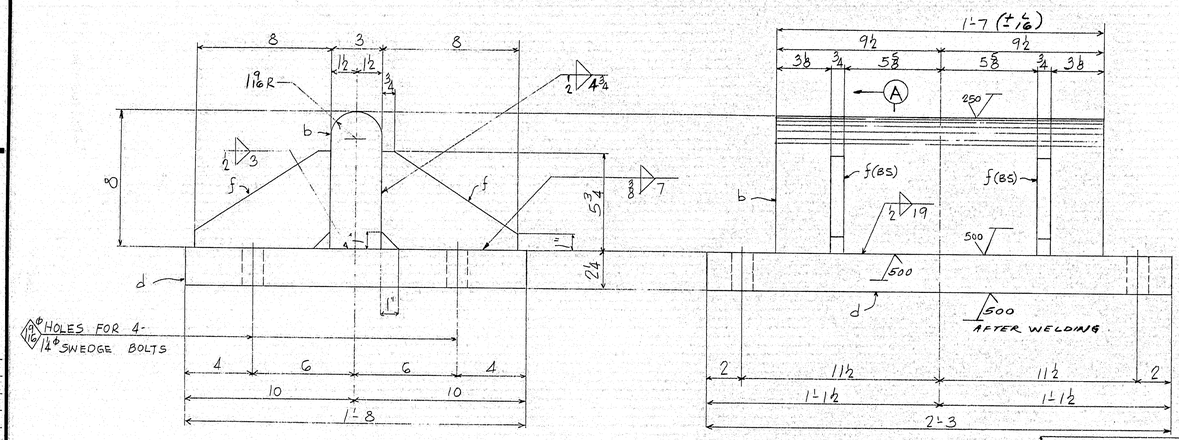
INSP# 1-1 106 = 44





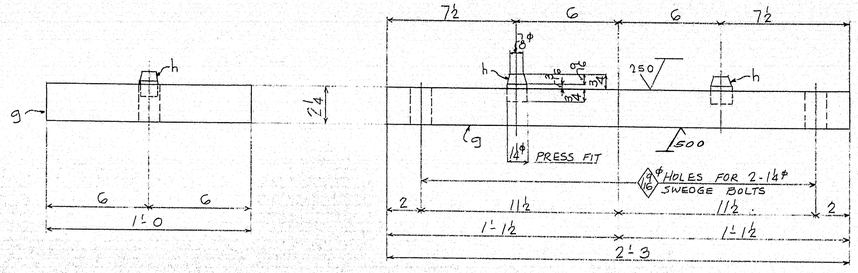

## FIXED SHOE FS1

PAINT - ONE COAT (EXCEPT AS NOTED IN SECT. A)



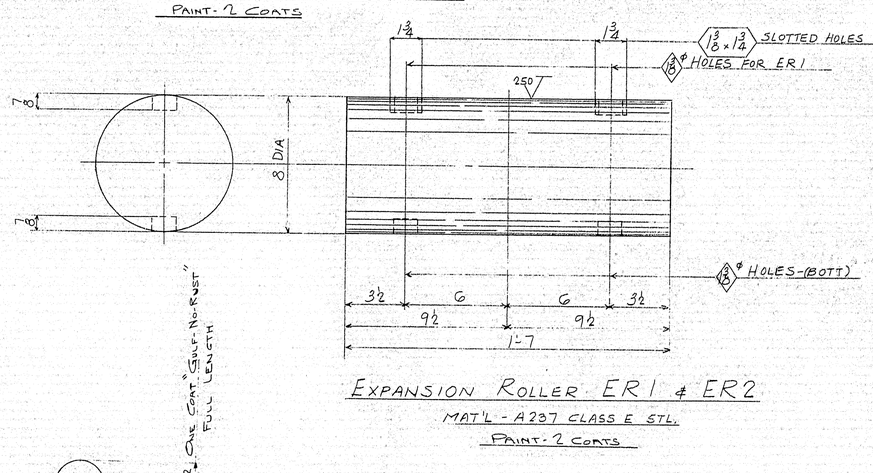

## FIXED SHOE FS2

PAINT - ONE COAT (EXCEPT AS NOTED)




## EXPANSION SHOE ES1

MAT'L FOR #g - A517 STL
MAT'L FOR PINTLE h - A237 CLASS E STL
PAINT - 2 COATS




## EXPANSION ROLLER ER1 & ER2

MAT'L - A237 CLASS E STL.
PAINT - 2 COATS

| | a | b | c |
|---|---|---|---|
| a | | | |
| b | | | |
| c | | | |
| d | | | |
| f | | | |
| g | | | |
| h | | | |
| k | | | |
| m | | | |
| n | | | |
| p | | | |
| s | | | |
| t | | | |
| w | | | |
| y | | | |

For location of details shown on this sheet refer to diagrams.

### SHOP BILL

| LINE | ASSEMBLY MARK | NO. | SHAPE | SECTION SIZE | SECTION SIZE OR POUNDS | SECTION THICK | LENGTH FT. | LENGTH IN. | REMARKS | MILL ORDER LENGTH FT. | MILL ORDER LENGTH IN. | MILL ORDER ITEM PAGE | MILL ORDER ITEM LINE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 19 | - FIXED SHOES | | | | | | FS1 | | | | |
| 2 | a | 19 | PL | 12 | | 2 | 1 | 9 | (M25) 12X2⅜ | 34 | 2 | 32 | 11 |
| 3 | b | 19 | PL | 8 | | 3 | 1 | 7 | (M2W) 8⅞X3 | 23 | 0 | 32 | 10 |
| 4 | c | 76 | BR | 4 | | ¾ | 0 | 5¾ | | | | J | |
| 5 | | | | | | | | | | | | | |
| 6 | FW | 19 | WD | | | ⅜ | 3 | 7 | | | | | |
| 7 | FW | 19 | WD | | | ½ | 5 | 3 | | | | | |
| 8 | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | |
| 10 | | 75 | - FIXED SHOES | | | | | | FS2 | | | | |
| 11 | d | 75 | PL | 20 | | 2¼ | 2 | 3 | (M25) 20X2⅜ | 25 | 4 | 32 | 12 |
| 12 | b | 75 | PL | 8 | | 3 | 1 | 7 | (M2W) 8⅞X3 | 23 | 0 | 32 | 10 |
| 13 | f | 300 | PL | 5¾ | | ¾ | 0 | 8 | CROP | | | J | |
| 14 | | | | | | | | | | | | | |
| 15 | FW | 75 | WD | | | ⅜ | 6 | 3 | | | | | |
| 16 | FW | 75 | WD | | | ½ | 5 | 3 | | | | | |
| 17 | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | |
| 19 | | | 208 EXPANSION SHOES ES1 | | | | | | | | | | |
| 20 | 9 | 208 | PL | 12 | | 2¼ | 2 | 3 | (M25) A517 | | | | 919-1006 |
| 21 | h | 416 | RD | 1¼Ø | | | 0 | 1½ | A237 CLASS E | | | | |
| 22 | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | |
| 24 | | | LOOSE MATERIAL | | | | | | | | | | |
| 25 | ER1 | 104 | RD | 8Ø | | | 1 | 7 | FIN. A237 CLASS E | | | | 919-1006 |
| 26 | ER2 | 104 | RD | 8Ø | | | 1 | 7 | FIN. A237 CLASS E | | | | |
| 27 | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | | |
| 34 | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | |
| 39 | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | |
| 41 | | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | | |

### INSTALLMENTS

| 19E | 19W | 18E | 18W | 17E | 17W | 16E | 16W | 14E | 14W | 13E | 13W | 12E | 12W | 11E | 11W | 10E | 10W | 9E | 9W | 8E | 8W | 6E | 6W | 5E | 5W | 4E | 4W | 3E | 3W | 2E | 2W | QTY | SHIPPING MARK | DESCRIPTION | REMARKS | CODE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 19 | FS1 | FIXED SHOE | | 081 |
| | | | | | | | | 9 | 8 | | | | | 8 | 8 | | | | | 7 | 7 | | | | | 7 | 7 | | | 7 | 7 | 75 | FS2 | FIXED SHOE | | 081 |
| 10 | 9 | 10 | 9 | 10 | 9 | 9 | 8 | | | 8 | 8 | 8 | 8 | | | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | | 7 | 7 | 208 | ES1 | EXPANSION SHOE | OUTSIDE FACE | 090 |
| 6 | 5 | 6 | 5 | 6 | 5 | 5 | 4 | | | 4 | 4 | 4 | 4 | | | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | 3 | 3 | 104 | ER1 | EXPANSION ROLLER | POTTS. PAINT | 090 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | 4 | 4 | 4 | 4 | | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | 4 | 4 | 104 | ER2 | EXPANSION ROLLER | | 090 |

250 INDICATES 250 MICRO-INCH FINISH
500 INDICATES 500 MICRO-INCH FINISH

APPROVED:
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S.S. Vinkin
SEP 16 1969

MATERIAL A36 STEEL (U.N.)
RIVETS OR BOLTS NONE
OPEN HOLES AS NOTED
A325 FIELD BOLTS NONE
SHOP CONTACT SURFACES NO PAINT
MILLING - AS NOTED
WELDING - E7018 ELECTRODES
PAINT AASHO-M72-TYPE II(A)
(SEE DET. FOR CONTS)

PAY ITEM 504.711
FIXED SHOES - EXPANSION SHOES & ROLLERS

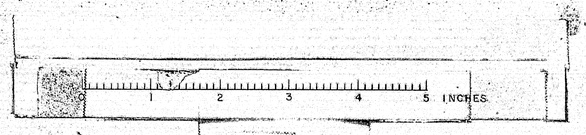
| NO. | DATE | INIT. | REVISION |
|---|---|---|---|
| 0 | | | |
| 9 | | | |
| 8 | | | |
| 7 | | | |
| 6 | | | |
| 5 | | | |
| 4 | | | |
| 3 | | | |
| 2 | | | |
| 1 | | | |

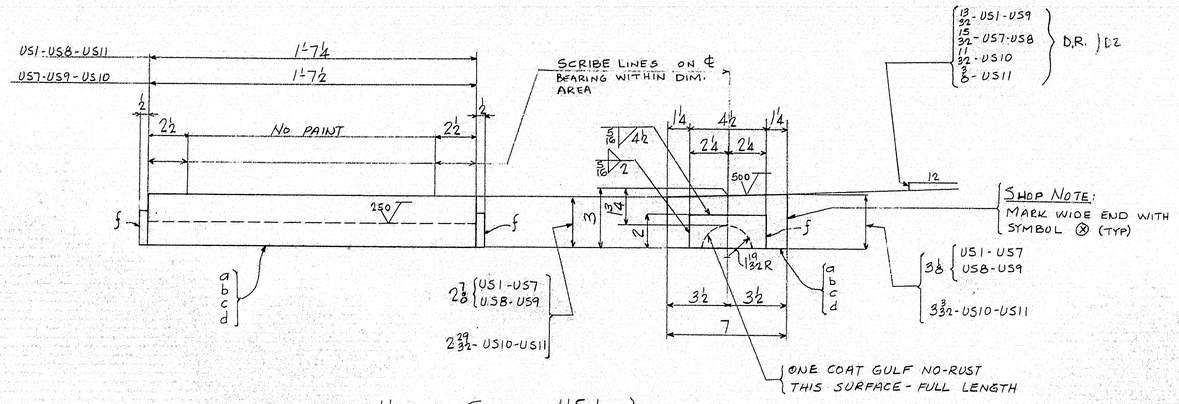
SUBMITTAL 1 2 3 4 5 6 7 8 9 0
DATE

CUSTOMER MAINE STATE HIGHWAY COMMISSION
STRUCTURE PISCATAQUA RIVER BRIDGE
PROJECT NO. I-95-1(62)16
CONTRACT #3 NEW HAMPSHIRE APPROACH
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY CWG DATE 6-17-69 IN CHARGE B.K. BEATOLET
CHECKED BY RLP DATE 6-26-69 SHOP NO. 2
CONTRACT CJG249 081 090 DRAWING NO. 1

INSP#1-1 K.FINE-4 1-05I MACH. SHOP-4/06-45

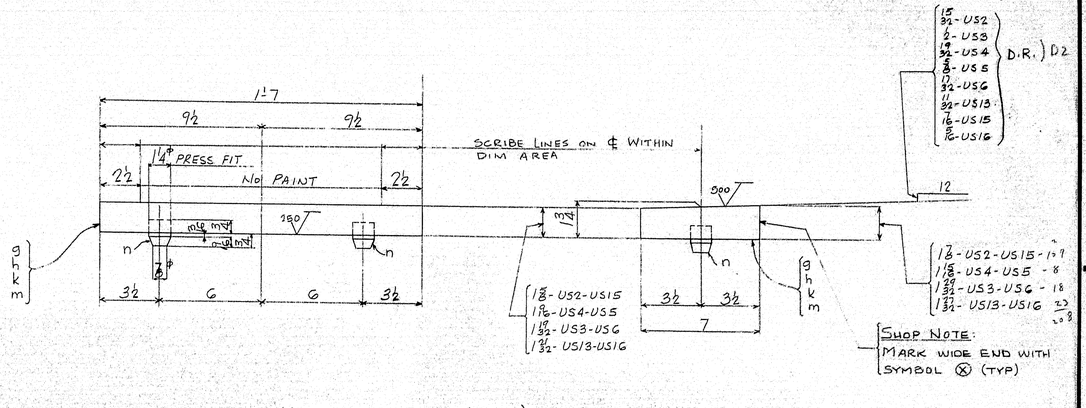
35042 (Rev.D 7-65)






| UPPER SHOE | US1 |
|---|---|
| DO | US7 |
| DO | US8 |
| DO | US9 |
| DO | US10 |
| DO | US11 |

ONE COAT OF PAINT EXCEPT WHERE NOTED




| UPPER SHOE | US2 |
|---|---|
| DO | US3 |
| DO | US4 |
| DO | US5 |
| DO | US6 |
| DO | US13 |
| DO | US15 |
| DO | US16 |

PAINT 2 COATS (U.N.)

MAT'L FOR BR-g-h-k-m A517 STL
MAT'L FOR PINTLE-n-A237 CLASS E STL

INSTALLMENTS

| 19E | 19W | 18E | 18W | 17E | 17W | 16E | 16W | 14E | 14W | 13E | 13W | 12E | 12W | 11E | 11W | 10E | 10W | 9E | 9W | 8E | 8W | 6E | 6W | 5E | 5W | 4E | 4W | 3E | 3W | 2E | 2W |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 |
| 10 | 9 | 10 | | | | | | | | 8 | 8 | 8 | 8 | | | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | | | | |
| | | | 9 | | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 4 | 4 | | | | | 4 | 4 | | | | | 4 | 4 | | | | | 4 | | | | | |
| | | | | | | | | 5 | 4 | | | | | 4 | 4 | | | | | 3 | 3 | | | | | 3 | | | | | |
| 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 4 | 4 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| | | | | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 5 | | 5 | | | | | | | | | | | | | | | | | | | | | | | | 7 | 7 |
| | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | |

REQUIRED LIST

| QTY | SHIPPING MARK | DESCRIPTION | REMARKS | CODE |
|---|---|---|---|---|
| 19 | US1 | UPPER SHOE | | 081 |
| 149 | US2 | DO | | 090 |
| 14 | US3 | DO | OUTSIDE FABRICATION PLANT PAINT | 090 |
| 4 | US4 | DO | | 090 |
| 4 | US5 | DO | | 090 |
| 4 | US6 | DO | | 090 |
| 28 | US7 | DO | | 081 |
| 26 | US8 | DO | SHOP ASSEMBLED TO STRINGERS | 081 |
| 16 | US9 | DO | | 081 |
| 2 | US10 | DO | | 081 |
| 3 | US11 | DO | | 081 |
| 19 | US13 | DO | OUTSIDE FABRICATION PITTSTOWN PAINT | 090 |
| 10 | US15 | DO | | 090 |
| 4 | US16 | DO | | 090 |

PAY ITEM 504.711 D3

250 T INDICATES 250 MICRO-INCH FINISH

500 T INDICATES 500 MICRO-INCH FINISH

APPROVED: HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S. S. Wah
SEP 16 1969

MATERIAL A36 STEEL (U.N.)
RIVETS OR BOLTS NONE
OPEN HOLES NONE
A325 FIELD BOLTS NONE
SHOP CONTACT SURFACES NO PAINT
MILLING - AS NOTED
WELDING - E7018 ELECTRODES
PAINT AASHO - M72 - TYPE II (SEE DET. FOR COATS)

UPPER SHOES (FIXED & EXPANSION)

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT Nº I-95-1(22)16
CONT. Nº 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY EWG DATE 7-10-69 IN CHARGE B.K. BERTOLET
CHECKED BY RJ DATE 7-24-69 SHOP NO. 2
CONTRACT CJ6249 {081 090} DRAWING NO. 2

| NO. | DATE | INIT. |
|---|---|---|
| D3 | 11/3 | ✓ & LO |
| D2 | 9/26 | T |
| D1 | 9/5 | JT |

REVISION

SUBMITTAL 1 2 3 4 5 6 7 8 9 0
DATE

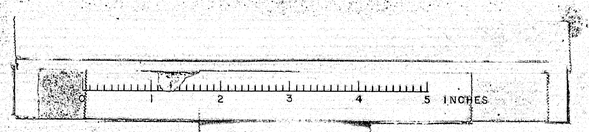
For location of details shown on this sheet refer to diagrams.
E1-E2-E3-E4

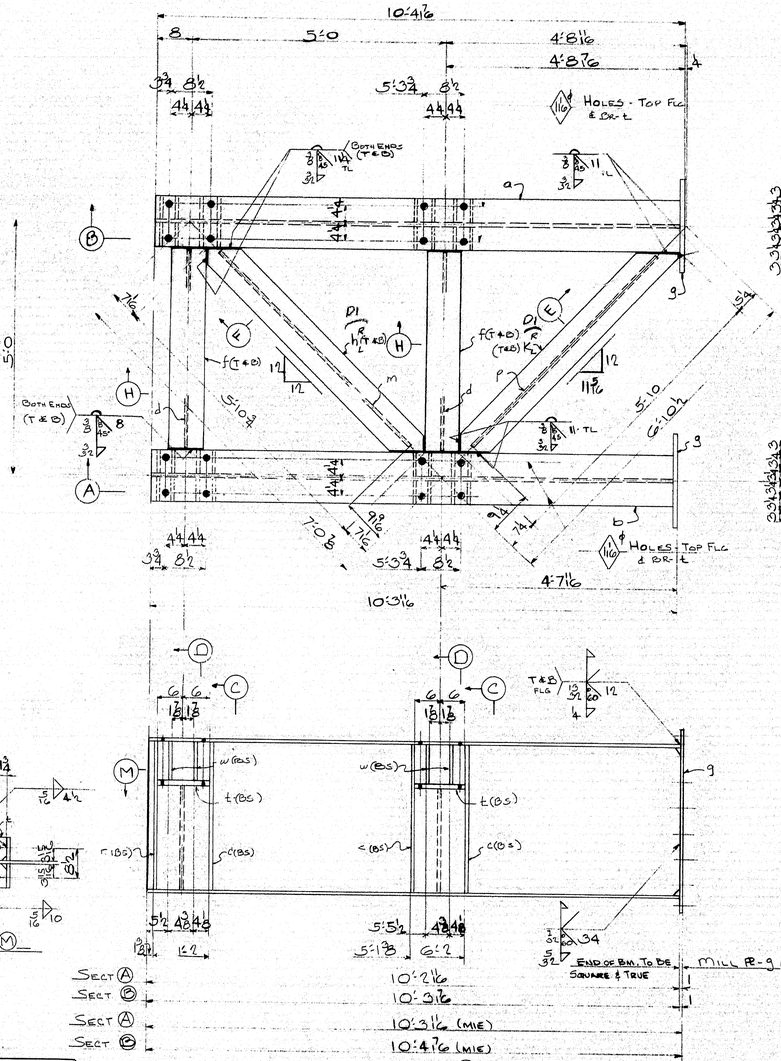
SHOP BILL

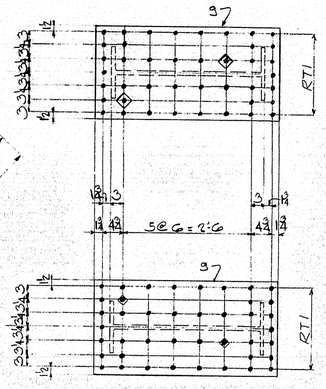
| LINE | ASSEMBLY MARK | NO. | SHAPE | SECTION SIZE | SECTION SIZE OR FOLDED | SECTION THICK | LENGTH FT. | LENGTH IN. | REMARKS | MILL ORDER LENGTH FT. | MILL ORDER LENGTH IN. | MILL ORDER ITEM PAGE | MILL ORDER ITEM LINE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 94 | UPPER SHOES | | | | 19-US1 | 28-US7 | 26-US8 16-US9 | | | | |
| 2 | | | | | | | 2-US10 | 3-US11 | | | | | |
| 3 | a | 45 | BR | 7 | | 3 1/8 | 1 | 7¼ | US1-US8 | | | | |
| 4 | b | 44 | BR | 7 | | 3 1/8 | 1 | 7½ | US7-US9 | 47 | 34 | 26 4 | 32 09 |
| 5 | c | 3 | BR | 7 | | 3 3/32 | 1 | 7¼ | US11 | | | | |
| 6 | d | 2 | BR | 7 | | 3 3/32 | 1 | 7½ | US10 | | | | |
| 7 | f | 188 | BR | 2 | | ½ | 0 | 4½ | | | | J | |
| 8 | | | | | | | | | | | | | |
| 9 | FW | 94 | WD | | | 5/16 | 1 | 5 | | | | | |
| 10 | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | |
| 13 | | | | | 208 - UPPER SHOES | | | | 149-US2 14-US3 4-US4 4-US5 | | | | |
| 14 | | | | | | | | | 4-US6 19-US13 10-US15 4-US16 | | | | |
| 15 | g | 159 | BR | 7 | | 1 3/8 | 1 | 7 | US2-US15 | | | | |
| 16 | h | 8 | BR | 7 | | 1 15/16 | 1 | 7 | US4-US5 | | | | |
| 17 | k | 18 | BR | 7 | | 1 29/32 | 1 | 7 | US3-US6 | | | | |
| 18 | m | 23 | BR | 7 | | 1 27/32 | 1 | 7 | US13-US16 | | | | |
| 19 | n | 416 | RD | 1¼ | | | 0 | 1½ | A237 CLASS E | | | | |

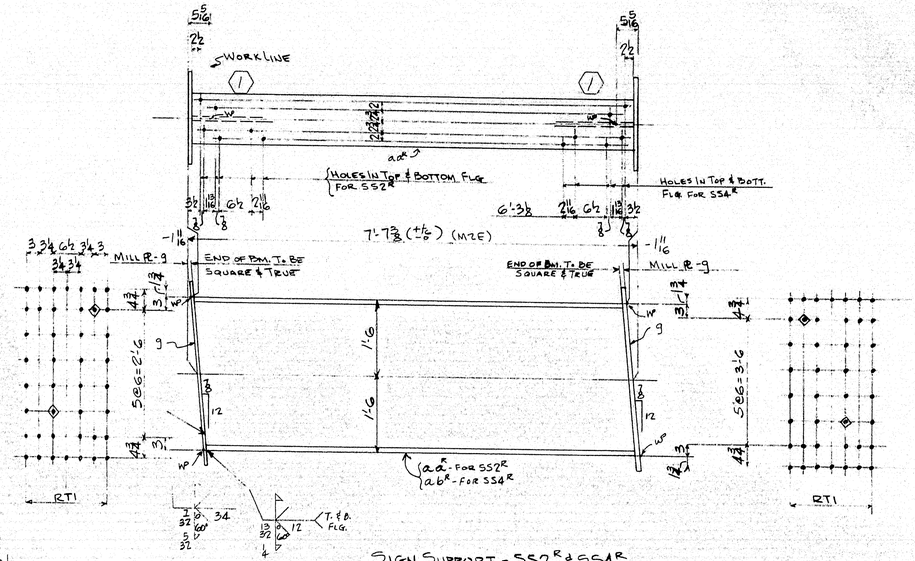
A517 STL
919-100GN
NO PTS. SHIPWORK EXCEPT PAINT

K. FINE-4 1-051 WS2: PREP Fit Fair Assembly Weld 2 TAPE INSP'D 11/06

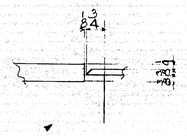


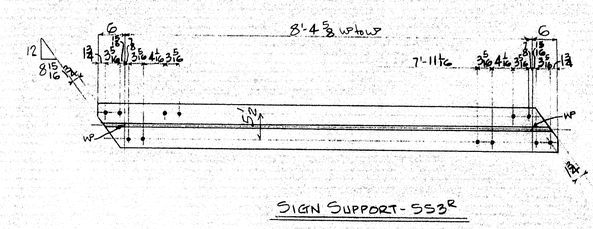


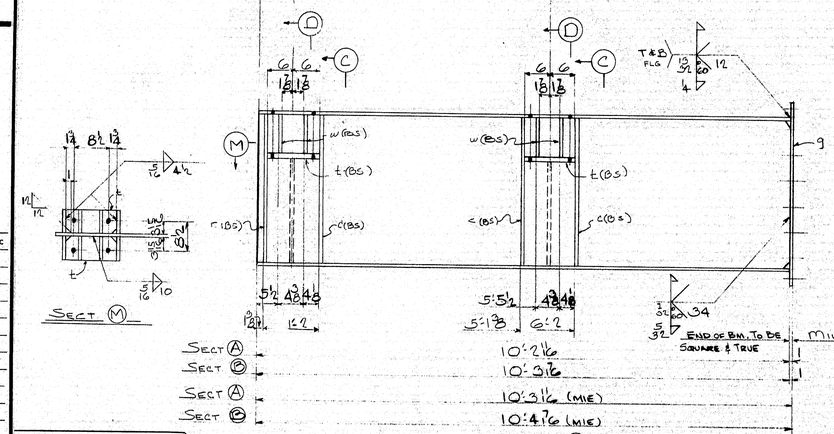



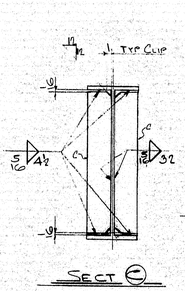

## SIGN SUPPORT - 552R & 554R

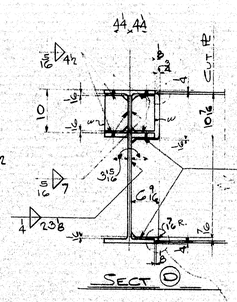


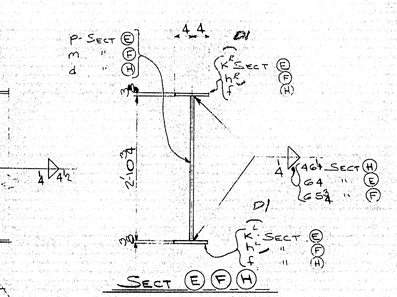


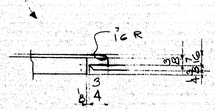

## SIGN SUPPORT - 553R




## SIGN SUPPORT SS1

INST. 8W

### REQUIRED LIST

| QTY | SHIPPING MARK | DESCRIPTION | REMARKS |
|---|---|---|---|
| ONE | SS4R | SIGN SUPPORT | |
| ONE | SS4L | do | |
| ONE | SS1 | SIGN SUPPORT | |
| ONE | SS2R | do | |
| ONE | SS2L | do | |
| 2 | SS3R | do | |
| 2 | SS3L | do | |

For location of details shown on this sheet refer to diagrams.

### SHOP BILL

| LINE | ASSEMBLY MARK | NO. | SHAPE | SECTION SIZE | SECTION SIZE OR POUNDS | SECTION THICK | LENGTH FT. | LENGTH IN. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1- | SIGN | SUPPORT | | | SS1 | | |
| 2 | a | 1 | B | 36 | 160 | | 10 | 3 1/16 | SAVE CROP |
| 3 | b | 1 | B | 36 | 160 | | 10 | 2 11/16 | |
| 4 | c | 16 | BR | 5 1/2 | | 5/8 | 2 | 9 3/8 | |
| 5 | d | 2 | PL | 34 | | 3/8 | 4 | 11 3/4 | 35x3/8 |
| 6 | f | 4 | PLU | 8 1/16 | | 3/8 | 3 | 11 3/4 | |
| 7 | D1 g | 2 | PL | 22 | | 1 | 3 | 7 | M15 CF58x1 3/8 |
| 8 | h R L | 1 1 | PLU | 8 1/16 | | 3/8 | 5 | 10 1/2 | |
| 9 | k R L | 1 1 | PLU | 8 1/16 | | 3/8 | 5 | 9 3/4 | |
| 10 | m | 1 | PL | 34 3/4 | D1 | 3/8 | 5 | 5 3/4 | 35x3/8 |
| 11 | P | 1 | PL | 34 3/4 | | 3/8 | 5 | 4 | 35x3/8 |
| 12 | t | 8 | PL | 5 1/2 | | 1 | 1 | 0 | |

### MILL ORDER

| LINE | LENGTH FT. | LENGTH IN. | ITEM PAGE | ITEM LINE |
|---|---|---|---|---|
| 2 | 18 | 10 3/8 | 30 | 006 |
| 5 | | | J | |
| 6 | 22 | 5 | 30 | 12 |
| 7 | | | J | |
| 8 | 11 | 10 | J | |
| 9 | | | J | |
| 10 | 22 | 5 | 30 | 12 |
| 11 | 22 | 5 | 30 | 12 |
| 12 | | | J | |

| LINE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | w | 16 | BR | 5 1/2 | | 5/8 | | 8 3/8 | | | J |
| 14 | B35 | 1 | WD | | | 3/8 | 12 | 9 | | | |
| 15 | T600 | 1 | WD | | | 1 | 4 | 0 | | | |
| 16 | T600 | 1 | WD | | | 5/8 | 5 | 8 | | | |
| 17 | FW | 1 | WD | | | 1/4 | 95 | 6 | | | |
| 18 | FW | 1 | WD | | | 5/16 | 177 | 4 | | | |
| 19 | | | | | | | | | | | |
| 20 | 4- SIGN SUPPORTS - 1-552R, 1-552L, 1-554R & 1-554L | | | | | | | | | | |
| 21 | aa R / ab R | 1 | B | 36 | 160 | | 7 | 8 | | | |
| 22 | g (8) | 1 | PL | 22 | | 1 | 3 | 7 | M15 58x1 3/8 | 11 | 10 J |
| 23 | T600 | 4 | WD | D1 | | 1 | 4 | 0 | | | |
| 24 | T600 | 4 | WD | | | 5/8 | 5 | 8 | | | |
| 25 | aa R / ab R | 1 | B | 36 | 160 | | 7 | 8 | | | J |
| 26 | | | | | | | | | | | |
| 27 | | | | | | | | | | | |

USE CROP LINE 2 — 18 10 3/8 30 006

LOOSE MATERIAL

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 28 | | | | | | | | | |
| 29 | | | | | | | | | |
| 30 | 553L 1/2 BT | 5 | 30 | | 9 | 4 5/8 | | | J |
| 31 | | | | | | | | | |
| 32 | | | | | | | | | |
| 33 | | | | | | | | | |
| 34 | | | | | | | | | |
| 35 | | | | | | | | | |
| 36 | | | | | | | | | |
| 37 | | | | | | | | | |
| 38 | | | | | | | | | |
| 39 | | | | | | | | | |
| 40 | | | | | | | | | |
| 41 | | | | | | | | | |
| 42 | | | | | | | | | |

ALL OPEN HOLES - NP 3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE E7016,18,28 LOW HYDROGEN ELECTRODES OR GR. SAW-2 FOR WELDING.

| MAX. THICK. AT POINT OF WELDING - INCHES | MINIMUM PREHEAT AND INTERPASS TEMP. - DEG. F |
|---|---|
| TO 3/4" INCL. | 50 DEG. |
| OVER 3/4" TO 1 1/2" | 70 DEG. |
| OVER 1 1/2" TO 2 1/2" | 150 DEG. |
| OVER 2 1/2" | 225 DEG. |

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY J.S. Nishimura
OCT 1 1969

PAY ITEM - 504.711

SIGN SUPPORTS

MATERIAL A36 STEEL
RIVETS OR BOLTS
OPEN HOLES 15/16 ϕ (UN)
A325 FIELD BOLTS
SHOP CONTACT SURFACES NO PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO - M72 TYPE II RED LEAD (UN)

| REVISION NO. | DATE | INIT. |
|---|---|---|
| D1 | 10/24/69 | JJC |

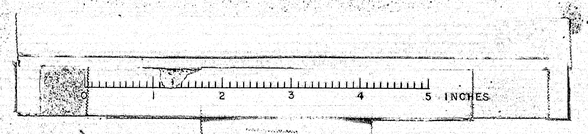
| SUBMITTAL | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|
| DATE | | | | | | | | | | |

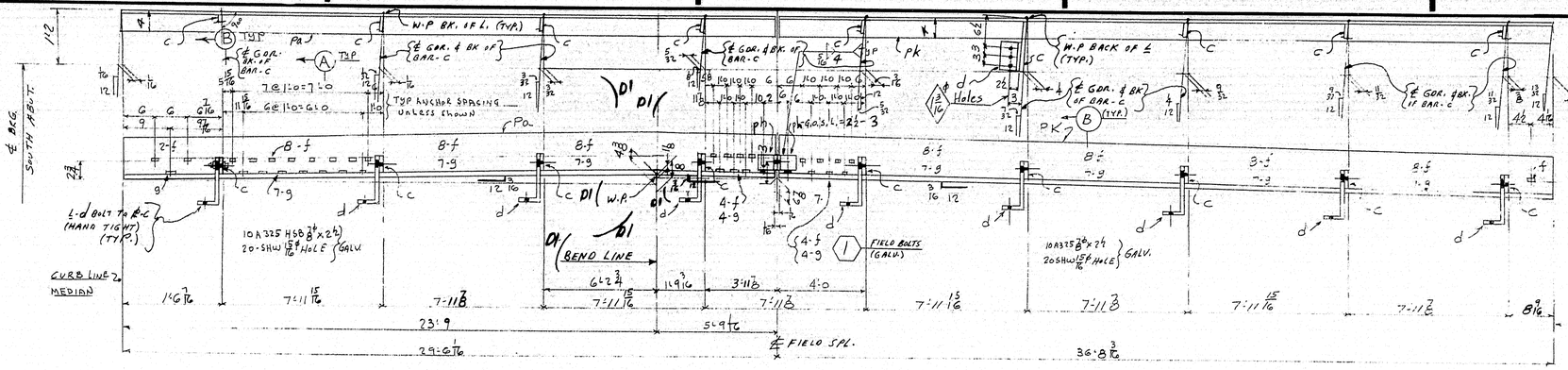
CUSTOMER MAINE STATE HIGHWAY COMMISSION
STRUCTURE PISCATAQUA RIVER BRIDGE
PROJECT NO I-95-1(32)16
CONTRACT NO 3 NEW HAMPSHIRE APP.
STRUCTURAL STEEL

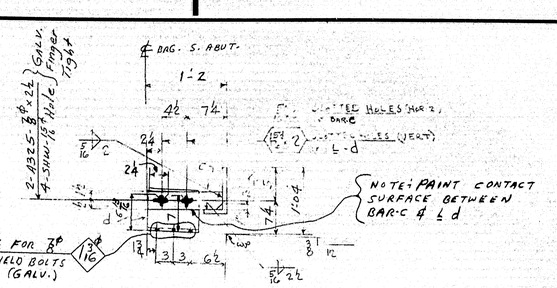
**BETHLEHEM STEEL CORPORATION**
FABRICATED STEEL CONSTRUCTION

POTTSTOWN DRAFTING ROOM Pottstown WORKS
MADE BY EE DATE 7-21-69 IN CHARGE B.K. BERTOLET
CHECKED BY [illegible] DATE 9-22-69 SHOP NO. 2
CONTRACT CJG249-090 DRAWING NO. 3

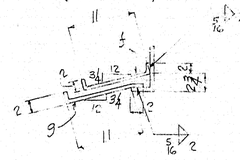
106-47





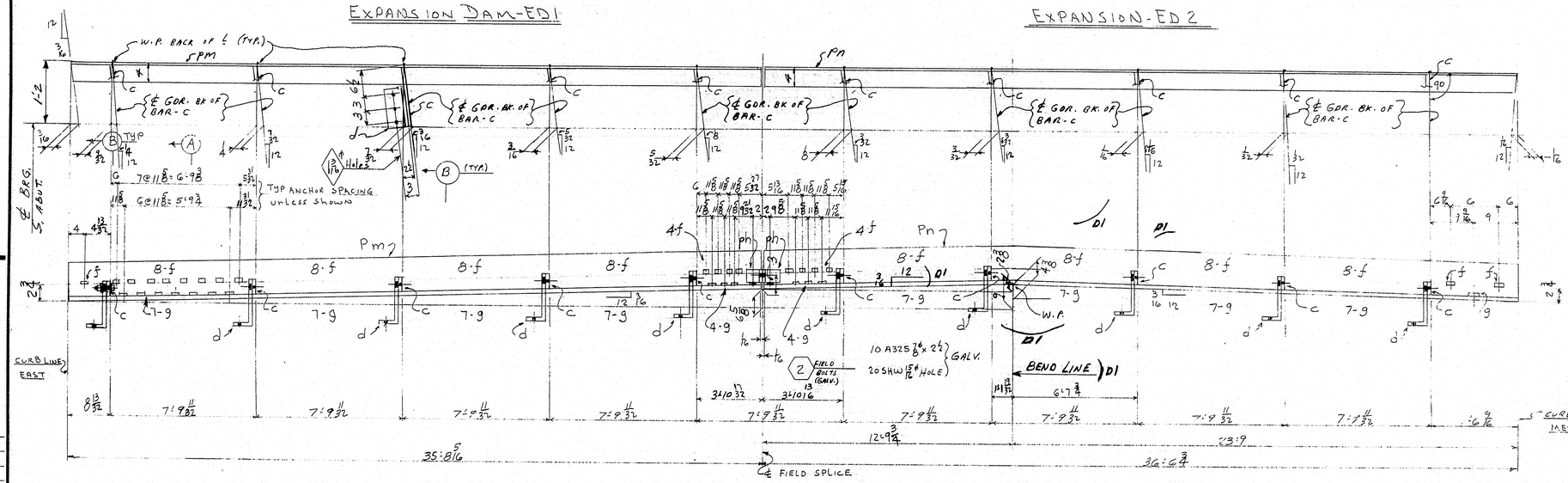

SECTION (B) -TYP (DEVELOPED)



SECTION (A) TYP

EXPANSION DAM-ED1

EXPANSION-ED2




EXPANSION DAM-ED3

EXPANSION DAM-ED4

(01) NOTE "A"
ALL STEEL SURFACES TO BE BLAST CLEANED AS PER SS PC-SPS-66. ALL STEEL WILL THEN RECEIVE ONE COAT OF ZINC RICH EPOXY - INCLUDING OPEN HOLES.

PAY ITEM - 504.711

| INST 19E | INST 19W | QTY | SHIPPING MARK | DESCRIPTION | REMARKS |
|---|---|---|---|---|---|
| | 1 | ONE | ED1 | EXP. DAM | |
| | 1 | ONE | ED2 | EXP. DAM | |
| 1 | | ONE | ED3 | EXP. DAM | |
| 1 | | ONE | ED4 | EXP. DAM | |

For location of details shown on this sheet refer to diagrams.

SHOP BILL

| LINE | ASSEMBLY MARK | NO. | SHAPE | SECTION SIZE | SECTION SIZE OR FOUNDS | SECTION THICK | LENGTH FT. | LENGTH IN. | REMARKS | MILL ORDER LENGTH FT. | MILL ORDER LENGTH IN. | MILL ORDER ITEM PAGE | MILL ORDER ITEM LINE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1 | EXPANSION DAM-ED1 | | | | | | | | | | |
| 2 | P:a | 1 | L | 7 | 4 | ½ | 29 | 6 | SAVE CROP | 30 | 0 | 201 | 18 |
| 3 | (01) | | | | | | | | | | | | |
| 4 | c | 4 | BR | 3 | | ½ | 1 | 12 | | | | E | |
| 5 | d | 4 | L (01) | 9 | 4 | ½ | 0 | 9¾ | | | | E | |
| 6 | f | 30 | BR | 2½ | | ⅜ | 1 | 3 | abt | 30 | 0 | 202 | 09 |
| 7 | g | 26 | BR | 2½ | | ⅜ | 1 | 3 | abt | 30 | 0 | 202 | 09 |
| 8 | P: h | 1 | L | 7 | 4 | ½ | 0 | 3 | use crop | 30 | 0 | 201 | 18 |
| 9 | (01) | | | | | | | | | | | | |
| 10 | FW | 1 | WD | | | 5/16 | 22 | 4 | | | | | |
| 11 | | 10 | 325 ⅞ϕ | | | | 0 | 22 | GALV. | | | AM201 | |
| 12 | | 20 | HW 1¾ | 15/16 | | 9/16 | | | | | | | |
| 13 | | 1 | EXPANSION DAM ED2 | | | | | | | | | | |
| 14 | P:K | 1 | L | 7 | 4 | ½ | 36 | 8⅝ | SAVE CROP | 37 | 6 | 201 | 19 |
| 15 | c | 5 | BR | 3 | | ½ | 1 | 12 | | | | E | |
| 16 | d | 5 | L (01) | 9 | 4 | ½ | 0 | 9¾ | | | | E | |
| 17 | f | 37 | BR (01) | 2½ | | ⅜ | 1 | 3 | abt | 30 | 0 | 202 | 09 |
| 18 | g | 31 | BR | 2½ | | ⅜ | 1 | 3 | abt | 30 | 0 | 202 | 09 |
| 19 | P: h | 1 | L | 7 | 4 | ½ | 0 | 3 | use crop | 37 | 6 | 201 | 19 |
| 20 | FW | 1 | WD | | | 5/16 | 27 | 3 | | | | | |
| 21 | | 10 | 325 ⅞ϕ | | | | 0 | 22 | GALV. | | | AM201 | |
| 22 | | 20 | HW 1¾ | 15/16 | | 9/16 | | | | | | | |
| 23 | | 1 | EXPANSION DAM ED3 | | | | | | | | | | |
| 25 | P:m | 1 | L | 7 | 4 | ½ | 35 | 8¾ | SAVE CROP | 36 | 6 | 201 | 20 |
| 26 | c | 5 | BR | 3 | | ½ | 1 | 12 | | | | E | |
| 27 | d | 5 | L (01) | 9 | 4 | ½ | 0 | 9¾ | | | | E | |
| 28 | | 1 | - | | | | | | | | | | |
| 28 | | 10 | 325 ⅞ϕ | | | | 0 | 22 | GALV. | | | AM201 | |
| 28 | | 20 | HW 1¾ | 15/16 | | 9/16 | | | | | | | |
| 28 | FW | 1 | WD | | | 5/16 | 27 | 3 | | | | | |
| 29 | f | 37 | BR | 2½ | | ⅜ | 1 | 3 | abt | 30 | 0 | 202 | 09 |
| 29 | g | 32 | BR | 2½ | | ⅜ | 1 | 3 | abt | 30 | 0 | 202 | 09 |
| 30 | P: h | 1 | L | 7 | 4 | ½ | 0 | 3 | USE CROP | 36 | 6 | 201 | 20 |
| 31 | | | | | | | | | | | | | |
| 32 | | 1 | EXPANSION DAM ED4 | | | | | | | | | | |
| 33 | P: n | 1 | L | 7 | 4 | ½ | 36 | 6¾ (01) | | 36 | 7 | 201 | 13 |
| 34 | (01) | | | | | | | | | | | | |
| 35 | c | 5 | BR | 3 | | ½ | 1 | 12 | | | | E | |
| 36 | d | 5 | L (01) | 9 | 4 | ½ | 0 | 9 | | | | E | |
| 37 | f | 38 | BR | 2½ | | ⅜ | 1 | 3 | abt | 30 | 0 | 202 | 09 |
| 38 | g | 33 | BR | 2½ | | ⅜ | 1 | 3 | abt | 30 | 0 | 202 | 09 |
| 39 | P: h | 1 | L | 7 | 4 | ½ | 0 | 3 | USE CROP | 36 | 6 | 201 | 20 |
| 40 | FW | 1 | WD | | | 5/16 | 28 | 1 | | | | | |
| 41 | (01) | | | | | | | | | | | | |
| 42 | | 10 | 325 ⅞ϕ | | | | 0 | 22 | GALV. | | | AM201 | |
| 42 | | 20 | HW 1¾ | 15/16 | | 9/16 | | | | | | | |

APPROVED:
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Charles Hardesty
JAN 5 1970

EXP. DAMS SOUTH ABUT.

MATERIAL: A36 STEEL (PREFIX None); A242 STEEL (PREFIX-P)
RIVETS OR BOLTS: None
OPEN HOLES: ¹³/₁₆ϕ UNLESS NOTED
A325 FIELD BOLTS: ¾ϕ GALV.
SHOP CONTACT SURFACES: NOT PAINTED (U.N.)
MILL - NONE
REAM - NONE
WELD - AS DOTED
PAINT 1 - COAT ZINC RICH EPOXY PAINT (SEE NOTE "A")

| SUBMITTAL | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|
| DATE | | | | | | | | | | |

CUSTOMER: MAINE STATE HIGHWAY COMMISSION
STRUCTURE: PISCATAQUA RIVER BRIDGE
PROJECT NO I 95 - (22) 16
CONT. NO 3 NEW HAMPSHIRE APPROACH
STRUCTURAL STEEL

**BETHLEHEM STEEL CORPORATION**
FABRICATED STEEL CONSTRUCTION

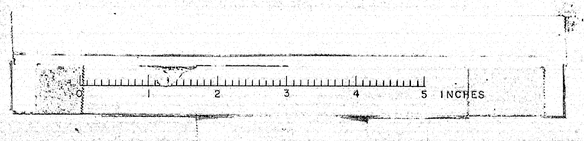
POTTSTOWN DRAFTING ROOM LEETSDALE WORKS
MADE BY D.R.L. DATE 8-22-69 IN CHARGE B.K. BERTOLET
CHECKED BY ℄ DATE 8-26-69 SHOP NO. 1

| REVISION NO. | DATE | INIT. |
|---|---|---|
| 01 | 11/25/69 | ℄ |

CONTRACT CEG249-090 DRAWING NO. 4

35043 (Rev. D 7-65)

106-48



# CUTTING LAYOUT FOR FINGER PL

58'-2⅛ (HORIZONTAL)

FINGER SPACING 17 @ 5½ = 57'-9

58'-2⅞

17 @ 8'-0 = 56'-0

TOP VIEW (DEVELOPED)

PROFILE OF FINGERS

SECTION (K) (TOOTH PROFILE)

SECTION (D)

SECTION (A)

SECTION (B)

SECTION (C) (DEVELOPED)

SECTION (E) (TYP) GUTTER

GUTTER WELD (HIGH POINT)

DETAIL OF PL Pm (PAINT)

DETAIL OF PL PS (PAINT)

(PAINT) DETAIL OF BR - Pt & Pac

52 ANCHOR STRAPS - h

72 ANCHOR STRAPS - h

57 ANCHOR STRAPS - k

36 STIFFENERS - g (TYP)

33 STIFFENERS - f (TYP)

NOTE - BREAK IN GR

EXPANSION-ED 5 — SHIMS SH41 TO SH62.

SHOP CONTACT SURFACES OF Pm Pn Pt & Pac TO BE PAINTED

EXP DAM BETWEEN 16S & 15S

For location of details shown on this sheet refer to diagrams.

E4

## SHOP BILL

| LINE | ASSEMBLY MARK | NO. | SHAPE | SECTION SIZE | SECTION SIZE OR POUNDS | THICK | LENGTH FT. | LENGTH IN. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1 | EXPANSION DAM-ED 5 | | | | | | |
| 2 | P a | 1 | PL | 20 | | 2 | 58 | 2⅞ | C.F. 35⅝ x 2 |
| 3 | P b | 1 | PL | 20 | | 2 | 58 | 2⅛ | |
| 4 | P c | 1 | L | 8 | 7½ | 1 | 58 | 3⅝ | C.F. 8 x 8 x 1 |
| 5 | P d | 1 | L | 8 | 8 | 1 | 58 | 3⅝ | |
| 6 | f | 34 | BR | 6½ | | ¾ | 0 | 10⅞ | C.F. 7 x ¾ |
| 7 | g | 37 | BR | 7 | | ⅞ | 0 | 10⅞ | |
| 8 | h | 174 | BR | 2½ | | ⅞ | 1 | 3 | Bent |
| 9 | k | 57 | BR | 2½ | | ⅞ | 1 | 3 | Bent |
| 10 | P m | 1 | PL | 13⅞ | | 2 | 1 | 9 | |
| 11 | P S | 1 | PL | 12 | | 2 | 1 | 4¼ | C.F. 12¾ x 2 x ¾ |
| 12 | P t | 1 | PL | 8⅛ | | 4 | 1 | 0 | |

## MILL ORDER

| LINE | LENGTH FT. | LENGTH IN. | ITEM PAGE | ITEM LINE |
|---|---|---|---|---|
| 1 | 58 | 6 | 201 | 02 |
| 2 | | | | |
| 3 | 30 | 0 | 202 | 08 |
| 4 | 30 | 0 | 202 | 08 |
| 5 | 30 | 0 | 202 | 09 |
| 6 | 30 | 0 | 202 | 09 |
| 7 | 25 | 3 | 201 | 21 |
| 8 | 25 | 3 | 201 | 21 |
| 9 | | | E | |

| LINE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 13 | S: | 8 | L | 3 | 2 | ¼ | 3 | 0 | SHIPPING LE |
| 14 | t | 8 | L | 3 | 2 | ¼ | 3 | 0 | SHIPPING LE |
| 15 | TGOOS | 1 | WD | | | 1 | 116 | 5 | |
| 16 | SD5 | 1 | WD | | | ⅜ | 16 | 0 | |
| 17 | FW | 1 | WD | | | 5/16 | 107 | 0 | |
| 18 | FW | 1 | WD | | | ⅜ | 236 | 4 | |
| 19 | FW | 1 | WD | | | 5/16 | 5 | 4 | |
| 20 | | | | | 2 | MB | ⅞ | 0 | 5 SHIPPING BOLTS |
| 21 | | | | | 16 | MB | ⅞ | 0 | 1½ SHIPPING BOLTS |
| 22 | | | | | 2 | MB | ⅝ | 0 | 3¾ SHIPPING BOLTS |
| 23 | P w | 8 | PL | 12⅞ | | ⅜ | 1 | 9⅞ | abt BENT |
| 24 | P y | 8 | PL | 12⅞ | | ⅜ | 1 | 9¼ | abt BENT |
| 25 | P aa | 8 | PL | 10 | | ⅜ | 1 | 10⅜ | abt BENT |
| 26 | P ab | 8 | PL | 10 | | ⅜ | 1 | 8¼ | abt BENT |
| 27 | P ac | 2 | STP | ⅝ | | ⅝ | 1 | 0 | |

| LINE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 28 | P aa d | 1 | PL | 8⅛ | | ½ | 1 | 0 | |
| 29 | | | | | | | | | |
| 30 | | | | LOOSE MATL | | | | | |
| 31 | | | | | | | | | |
| 32 | SH41 | 1 | PL | 8⅛ | | 4 | 5 | 11⅞ | |
| 33 | SH42 | 2 | STP | 8 | | ⅝ | 5 | 11⅞ | |
| 34 | SH43 | 1 | PL | 8⅛ | | 4 | 5 | 2⅝ | |
| 35 | SH44 | 2 | STP | 8 | | ⅝ | 5 | 2⅝ | |
| 36 | SH45 | 1 | PL | 8⅛ | | 4 | 5 | 5⅛ | |
| 37 | SH46 | 2 | STP | 8 | | ⅝ | 5 | 5⅛ | |
| 38 | SH47 | 1 | PL | 8⅛ | | 4 | 5 | 0⅝ | |
| 39 | SH48 | 2 | STP | 8 | | ⅝ | 5 | 0⅝ | |
| 40 | SH49 | 1 | PL | 8⅛ | | 4 | 5 | 2⅝ | |
| 41 | | | CONTINUED ON 5A | | | | | | |

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Arnold Worsley
JAN 5 1970

MATERIAL A36 (A242 MAYARI-R PREFIX P)
BOLTS A325 AS NOTED
OPEN HOLES 13/16 DIA UNLESS NOTED
A325 FIELD BOLTS ⅞ DIA GALV.
SHOP CONTACT SURFACES NO PAINT UNLESS NOTED
MILL - NONE - AS NOTED
REAM - NONE - AS NOTED
PAINT 1 COAT ZINC RICH INORGANIC PAINT EXCEPT AS NOTED
WELDING - AS NOTED SEE NOTE "B"

| SUBMITTAL | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|
| DATE | | | | | | | | | | |

| NO. | DATE | INIT. | REVISION |
|---|---|---|---|
| 0 | | | |
| 9 | | | |
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| 7 | | | |
| 6 | | | |
| 5 | | | |
| 4 | | | |
| 3 | | | |
| 2 | | | |
| 1 | | | |

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE PROJECT NO I-95-1 (3)-16
STRUCTURE CONTRACT NO 3 NEW HAMPSHIRE APPROACH
STRUCTURAL STEEL

**BETHLEHEM STEEL CORPORATION**
FABRICATED STEEL CONSTRUCTION

POTTSTOWN DRAFTING ROOM LEETSDALE WORKS
MADE BY DRL DATE 8/4/69 IN CHARGE B.K. BERTOLET
CHECKED BY RLF DATE 9-12-69 SHOP NO. 1
CONTRACT CEG249-080 DRAWING NO. 5

33043 (Rev.D 7-65)

106-49