



PIER DIAPHRAGMS

| MARK  | REQ'D | (A)                                | (B)                                | (C)                                | (D)                            | (1)  | (2)  |        |
|-------|-------|------------------------------------|------------------------------------|------------------------------------|--------------------------------|------|------|--------|
| 617D1 | 1     | 9'-7 <sup>15</sup> / <sub>16</sub> | 9'-1 <sup>15</sup> / <sub>16</sub> | 9'-5 <sup>7</sup> / <sub>16</sub>  | 9 <sup>9</sup> / <sub>16</sub> | a617 | m617 | PIER 1 |
| 617D2 | 1     | 9'-7 <sup>3</sup> / <sub>4</sub>   | 9'-1 <sup>3</sup> / <sub>4</sub>   | 9'-5 <sup>1</sup> / <sub>4</sub>   | 9 <sup>9</sup> / <sub>16</sub> | b617 | m617 | PIER 1 |
| 617D3 | 1     | 9'-7 <sup>9</sup> / <sub>16</sub>  | 9'-1 <sup>9</sup> / <sub>16</sub>  | 9'-5 <sup>1</sup> / <sub>16</sub>  | 9 <sup>9</sup> / <sub>16</sub> | c617 | m617 | PIER 1 |
| 617D4 | 1     | 9'-7 <sup>3</sup> / <sub>8</sub>   | 9'-1 <sup>3</sup> / <sub>8</sub>   | 9'-4 <sup>7</sup> / <sub>8</sub>   | 9 <sup>9</sup> / <sub>16</sub> | d617 | m617 | PIER 1 |
| 617D5 | 1     | 9'-5 <sup>9</sup> / <sub>16</sub>  | 8'-11 <sup>9</sup> / <sub>16</sub> | 9'-3 <sup>1</sup> / <sub>16</sub>  | 9 <sup>7</sup> / <sub>8</sub>  | f617 | n617 | PIER 2 |
| 617D6 | 1     | 9'-5 <sup>7</sup> / <sub>16</sub>  | 8'-11 <sup>7</sup> / <sub>16</sub> | 9'-2 <sup>15</sup> / <sub>16</sub> | 9 <sup>7</sup> / <sub>8</sub>  | g617 | n617 | PIER 2 |
| 617D7 | 1     | 9'-5 <sup>1</sup> / <sub>4</sub>   | 8'-11 <sup>1</sup> / <sub>4</sub>  | 9'-2 <sup>3</sup> / <sub>4</sub>   | 9 <sup>7</sup> / <sub>8</sub>  | h617 | n617 | PIER 2 |
| 617D8 | 1     | 9'-5 <sup>1</sup> / <sub>16</sub>  | 8'-11 <sup>1</sup> / <sub>16</sub> | 9'-2 <sup>9</sup> / <sub>16</sub>  | 9 <sup>7</sup> / <sub>8</sub>  | k617 | n617 | PIER 2 |

| JOB NO.  |      | DRAWING NO. |     | REV. |                 | JOB NO.                         |                      | DRAWING NO. |                   | REV.     |      |       |     |      |                 |                                   |          |     |                   |
|----------|------|-------------|-----|------|-----------------|---------------------------------|----------------------|-------------|-------------------|----------|------|-------|-----|------|-----------------|-----------------------------------|----------|-----|-------------------|
| 617      |      | 617         |     | 617  |                 | 617                             |                      | 617         |                   | 617      |      |       |     |      |                 |                                   |          |     |                   |
| ABM INFO | SHIP | MARK        | QTY | MARK | MATERIAL        | LENGTH                          | REMARKS              | WT          | PROCUREMENT NOTES | ABM INFO | SHIP | MARK  | QTY | MARK | MATERIAL        | LENGTH                            | REMARKS  | WT  | PROCUREMENT NOTES |
| PAGE     | LINE |             |     |      |                 | FT                              |                      |             |                   | PAGE     | LINE |       |     |      |                 | FT                                |          |     |                   |
|          |      | 617D7       | 1   |      | PIER DIAPHRAGMS |                                 |                      | 372         |                   |          |      | 617D1 | 1   |      | PIER DIAPHRAGMS |                                   |          | 380 |                   |
| 604      | D    |             | 1   | h617 | W 18x35         | 9 2 <sup>3</sup> / <sub>4</sub> |                      |             |                   | 604      | D    |       | 1   | a617 | W 18x35         | 9 5 <sup>1</sup> / <sub>4</sub>   |          |     |                   |
| 604      | E    |             | 2   | n617 | PL 2x15         | 0 9 <sup>1</sup> / <sub>2</sub> | BENT                 |             |                   | 604      | E    |       | 2   | m617 | PL 2x15         | 0 9 <sup>1</sup> / <sub>2</sub>   | BENT     |     |                   |
| 605      | C    |             | 10  |      | 7/8 HSB         | 0 2 <sup>1</sup> / <sub>4</sub> | (A325-3)             |             |                   | 605      | C    |       | 10  |      | 7/8 HSB         | 0 2 <sup>1</sup> / <sub>4</sub>   | (A325-3) |     |                   |
| 605      | H    |             | 10  |      | 7/8 HSW         |                                 | (F436W)              |             |                   | 605      | H    |       | 10  |      | 7/8 HSW         |                                   | (F436W)  |     |                   |
|          |      | 617D8       | 1   |      | PIER DIAPHRAGMS |                                 |                      | 371         |                   |          |      | 617D2 | 1   |      | PIER DIAPHRAGMS |                                   |          | 379 |                   |
| 604      | D    |             | 1   | k617 | W 18x35         | 9 2 <sup>3</sup> / <sub>4</sub> |                      |             |                   | 604      | D    |       | 1   | b617 | W 18x35         | 9 5 <sup>1</sup> / <sub>4</sub>   |          |     |                   |
| 604      | E    |             | 2   | n617 | PL 2x15         | 0 9 <sup>1</sup> / <sub>2</sub> | BENT                 |             |                   | 604      | E    |       | 2   | m617 | PL 2x15         | 0 9 <sup>1</sup> / <sub>2</sub>   | BENT     |     |                   |
| 605      | C    |             | 10  |      | 7/8 HSB         | 0 2 <sup>1</sup> / <sub>4</sub> | (A325-3)             |             |                   | 605      | C    |       | 10  |      | 7/8 HSB         | 0 2 <sup>1</sup> / <sub>4</sub>   | (A325-3) |     |                   |
| 605      | H    |             | 10  |      | 7/8 HSW         |                                 | (F436W)              |             |                   | 605      | H    |       | 10  |      | 7/8 HSW         |                                   | (F436W)  |     |                   |
|          |      |             |     |      | FIELD BOLTS     |                                 |                      | 1586        |                   |          |      | 617D3 | 1   |      | PIER DIAPHRAGMS |                                   |          | 379 |                   |
|          |      |             |     |      |                 |                                 | 2% ADDED +3 FOR TEST |             |                   | 604      | D    |       | 1   | c617 | W 18x35         | 9 5 <sup>1</sup> / <sub>4</sub>   |          |     |                   |
| 606      | C    |             | 411 |      | 7/8 HSB         | 0 2 <sup>1</sup> / <sub>4</sub> | (A325-3)             |             |                   | 604      | E    |       | 2   | m617 | PL 2x15         | 0 9 <sup>1</sup> / <sub>2</sub>   | BENT     |     |                   |
| 606      | E    |             | 85  |      | 7/8 HSB         | 0 2 <sup>1</sup> / <sub>4</sub> | (A325-3)             |             |                   | 605      | C    |       | 10  |      | 7/8 HSB         | 0 2 <sup>1</sup> / <sub>4</sub>   | (A325-3) |     |                   |
| 606      | F    |             | 493 |      | 7/8 HSB         | 0 3                             | (A325-3)             |             |                   | 605      | H    |       | 10  |      | 7/8 HSW         |                                   | (F436W)  |     |                   |
| 606      | J    |             | 819 |      | 7/8 HSB         | 0 4                             | (A325-3)             |             |                   |          |      | 617D4 | 1   |      | PIER DIAPHRAGMS |                                   |          | 378 |                   |
| 606      | L    |             | 808 |      | 7/8 HSW         |                                 | (F436W)              |             |                   | 604      | D    |       | 1   | d617 | W 18x35         | 9 4 <sup>1</sup> / <sub>4</sub>   |          |     |                   |
|          |      |             |     |      |                 |                                 |                      |             |                   | 604      | E    |       | 2   | m617 | PL 2x15         | 0 9 <sup>1</sup> / <sub>2</sub>   | BENT     |     |                   |
| 606      | P    |             | 45  |      | 7/8 HSB         | 0 2 <sup>1</sup> / <sub>4</sub> | (A325-1) GALV.       |             |                   | 605      | C    |       | 10  |      | 7/8 HSB         | 0 2 <sup>1</sup> / <sub>4</sub>   | (A325-3) |     |                   |
| 606      | R    |             | 45  |      | 7/8 HSB         | 0 2 <sup>1</sup> / <sub>4</sub> | (A325-1) GALV.       |             |                   | 605      | H    |       | 10  |      | 7/8 HSW         |                                   | (F436W)  |     |                   |
| 606      | T    |             | 90  |      | 7/8 HSW         |                                 | (F436) GALV.         |             |                   |          |      | 617D5 | 1   |      | PIER DIAPHRAGMS |                                   |          | 373 |                   |
|          |      |             |     |      |                 |                                 |                      |             |                   | 604      | D    |       | 1   | f617 | W 18x35         | 9 3 <sup>1</sup> / <sub>4</sub>   |          |     |                   |
|          |      |             |     |      |                 |                                 |                      |             |                   | 604      | E    |       | 2   | n617 | PL 2x15         | 0 9 <sup>1</sup> / <sub>2</sub>   | BENT     |     |                   |
|          |      |             |     |      |                 |                                 |                      |             |                   | 605      | C    |       | 10  |      | 7/8 HSB         | 0 2 <sup>1</sup> / <sub>4</sub>   | (A325-3) |     |                   |
|          |      |             |     |      |                 |                                 |                      |             |                   | 605      | H    |       | 10  |      | 7/8 HSW         |                                   | (F436W)  |     |                   |
|          |      |             |     |      |                 |                                 |                      |             |                   |          |      | 617D6 | 1   |      | PIER DIAPHRAGMS |                                   |          | 372 |                   |
|          |      |             |     |      |                 |                                 |                      |             |                   | 604      | D    |       | 1   | g617 | W 18x35         | 9 2 <sup>15</sup> / <sub>16</sub> |          |     |                   |
|          |      |             |     |      |                 |                                 |                      |             |                   | 604      | E    |       | 2   | n617 | PL 2x15         | 0 9 <sup>1</sup> / <sub>2</sub>   | BENT     |     |                   |
|          |      |             |     |      |                 |                                 |                      |             |                   | 605      | C    |       | 10  |      | 7/8 HSB         | 0 2 <sup>1</sup> / <sub>4</sub>   | (A325-3) |     |                   |
|          |      |             |     |      |                 |                                 |                      |             |                   | 605      | H    |       | 10  |      | 7/8 HSW         |                                   | (F436W)  |     |                   |

OUT FOR APPROVAL 10-9-01

OUT FOR APPROVAL

ISSUED TO SHOP

FIELD & OFFICE

| REV. | REMARKS               | DATE | DWN | CHK | APP | Q.A. | NO. | DIA. | LGT | TYPE | WASHER |
|------|-----------------------|------|-----|-----|-----|------|-----|------|-----|------|--------|
|      | MATERIAL: M27D GR 50W |      |     |     |     |      |     |      |     |      |        |
|      | ELECTRODES:           |      |     |     |     |      |     |      |     |      |        |
|      | HOLE:                 |      |     |     |     |      |     |      |     |      |        |
|      | SHOP BOLTS:           |      |     |     |     |      |     |      |     |      |        |

SURFACE PREP. & PAINT:

-STEEL WITHIN 10'-0" OF ABUT 2 SHALL BE PAINTED (SEE GN501)

-ALL OTHER STEEL SHALL BE BLAST CLEANED AND LEFT UNPAINTED.

DESCRIPTION: PIER DIAPHRAGMS

JOB: BRIDGE NO. 50N

I-89 NB OVER U.S. ROUTE 2

I-89 IMPROVEMENTS

TOWN OF MIDDLESEX-BOLTON, VERMONT

PROJ NO. IM-089-2(26)

CUSTOMER: VERMONT AGENCY OF TRANSPORTATION

CASCO BAY STEEL STRUCTURES, INC.

75 SPRING HILL ROAD SACO, MAINE 04072

PHONE (207) 282-7360 FAX. (207) 282-1179

DRAWN BY: BW

DATE: 09/26

CHKD BY: DO

DATE: 10/1

APPROV BY: SUPERVISOR H. J. GATTI

DATE: Q.A.

JOB NO. 123-50N

DRG. NO. 617

REV.  $\Delta$

TVGA  
Engineering, Surveying, P.C.

NO EXCEPTIONS TAKEN  REJECTED

FURNISH AS CORROSTED

REVISE AND RESUBMIT

ENGINEER has reviewed Shop Drawings and Samples and other data which Contractor is required to furnish, and confirms that the information given in the Contract Documents and Specifications is in accordance with the completed Project as a finalizing whole or indicated in the Contract Documents. Such review shall not be construed as a warranty, or to safety precautions and programs incident construction or to the fabrication processes or to the construction, and for coordination of the work of all trades.

BY: *[Signature]*

DATE: 07-16-2002