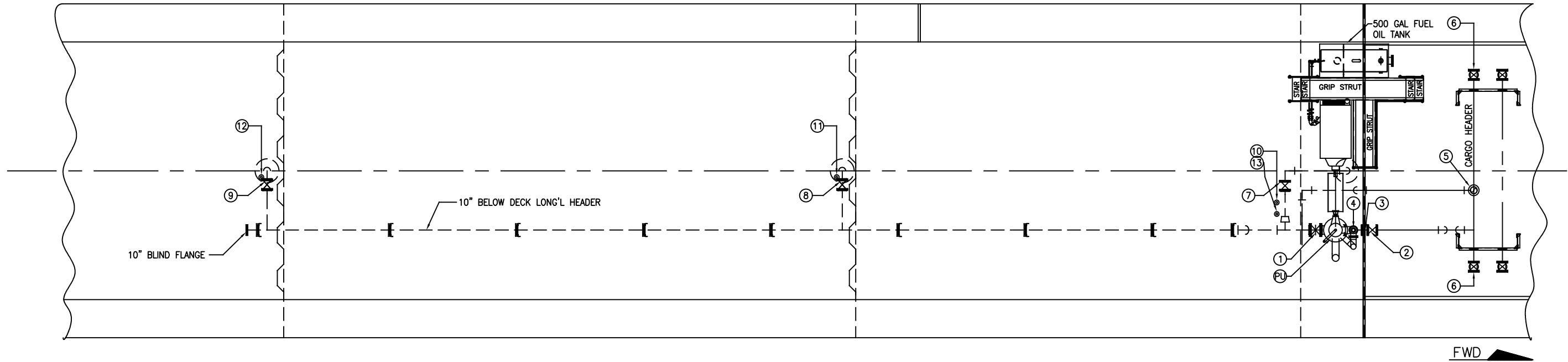




CARGO LOADING:

- A OPEN VALVES NO.:5,6,7,8 & 9  
B CLOSE VALVES NO.:1,2  
C VENT TANKS

CARGO DISCHARGE:

- A OPEN VALVES NO.:1,2,6,7,8 & 9  
B CLOSE VALVES NO.: 5  
C VENT TANKS

CARGO SYSTEM VALVES

- 1 PUMP SUCTION VALVE  
2 PUMP DISCHARGE VALVE  
3 PUMP DISCHARGE CHECK VALVE  
4 PRESSURE RELIEF VALVE  
5 CARGO FILL VALVE  
6 PORT & STBD HEADER VALVES  
7 TK 1 FILL / SUCTION VALVE  
8 TK 2 FILL / SUCTION VALVE  
9 TK 3 FILL / SUCTION VALVE  
10 #1 STRIPPING VALVE  
11 #2 STRIPPING VALVE  
12 #3 STRIPPING VALVE  
13 DW STRIPPING VALVE  
PU PUMP

PLAN

TANK VOL. 100% FULL

| TANK  | GAL.   | BBL.     | CU. FT.  |
|-------|--------|----------|----------|
| 1     | 147677 | 3516.12  | 19741.59 |
| 2     | 170868 | 4068.29  | 22841.78 |
| 3     | 151853 | 3615.54  | 20299.84 |
| TOTAL | 470398 | 11199.95 | 62883.21 |
|       |        | 98% FULL | 10975.95 |

| MAX CAPACITY – BBL (100%) |         |         |         |
|---------------------------|---------|---------|---------|
| 11199.95                  | 3516.12 | 4068.29 | 3615.54 |

TOTAL CT1 CT2 CT3

| MAX CAPACITY – CU. FT. (100%) |          |          |          |
|-------------------------------|----------|----------|----------|
| 62883.21                      | 19741.59 | 22841.78 | 20299.84 |

TOTAL CT1 CT2 CT3

| CAPACITIES—SHORT TONS AT VARIOUS DRAFTS<br>TANK NUMBER |                 |             |             |             |
|--------------------------------------------------------|-----------------|-------------|-------------|-------------|
| DRAFT<br>(FT)                                          | TOTAL<br>(S.T.) | 1<br>(S.T.) | 2<br>(S.T.) | 3<br>(S.T.) |
| 6.00                                                   | 804.40          | 259.40      | 291.50      | 253.40      |
| 6.25                                                   | 857.30          | 278.00      | 312.20      | 267.10      |
| 6.50                                                   | 910.30          | 296.60      | 332.90      | 280.70      |
| 6.75                                                   | 963.50          | 315.40      | 353.80      | 294.40      |
| 7.00                                                   | 1016.50         | 334.10      | 374.70      | 307.80      |
| 7.25                                                   | 1069.70         | 352.90      | 395.60      | 321.10      |
| 7.50                                                   | 1123.00         | 371.90      | 416.70      | 334.50      |
| 7.75                                                   | 1176.40         | 390.90      | 437.90      | 347.70      |
| 8.00                                                   | 1229.90         | 410.00      | 459.10      | 360.90      |
| 8.25                                                   | 1283.40         | 429.10      | 480.40      | 374.00      |
| 8.50                                                   | 1337.10         | 448.30      | 501.70      | 387.00      |
| 8.75                                                   | 1390.80         | 467.60      | 523.20      | 400.00      |
| 9.00                                                   | 1444.50         | 486.70      | 544.40      | 413.50      |
| 9.25                                                   | 1498.40         | 506.40      | 566.30      | 425.70      |
| 9.4167                                                 | 1534.20         | 519.30      | 580.60      | 434.20      |
| 9.50                                                   | 1552.30         | 525.90      | 587.90      | 438.50      |
| 9.75                                                   | 1606.30         | 545.50      | 609.60      | 451.20      |
| 10.00                                                  | 1660.30         | 565.10      | 631.40      | 463.90      |
| 10.25                                                  | 1714.40         | 584.70      | 653.20      | 476.50      |
| 10.50                                                  | 1768.50         | 604.50      | 675.10      | 489.00      |

SPECIAL FEATURES

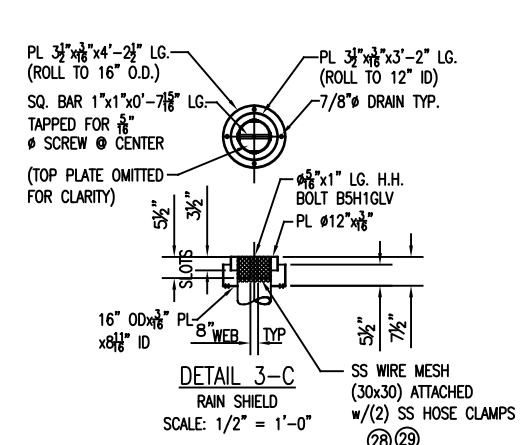
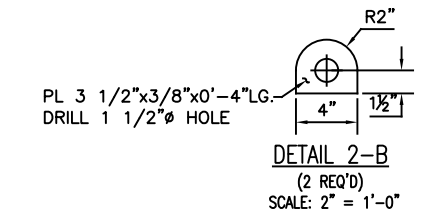
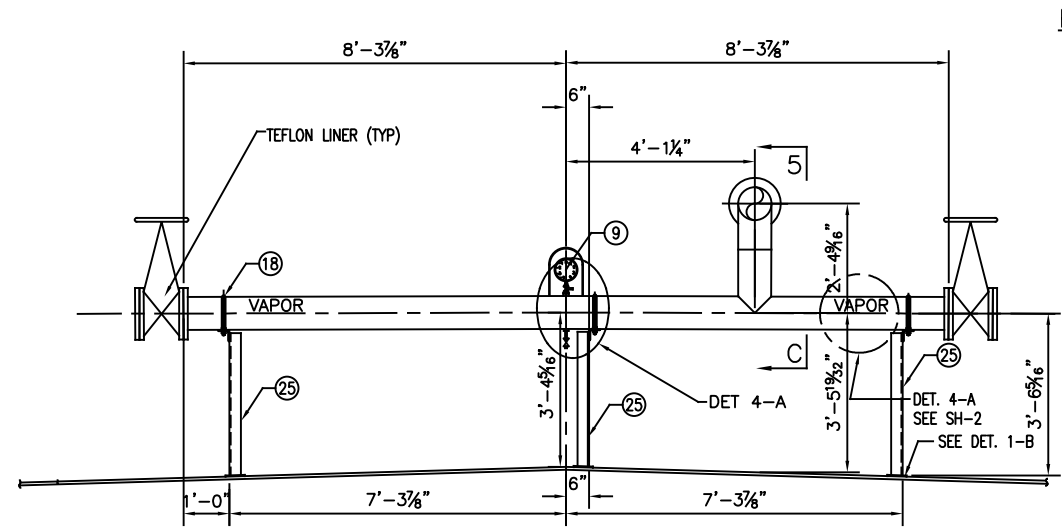
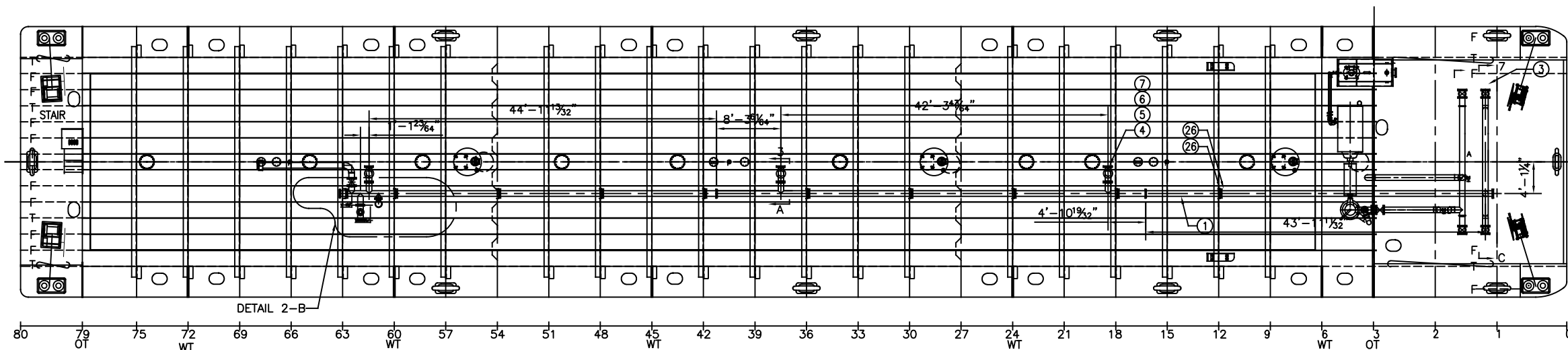
1. CARGO PUMP: BYRON JACKSON  
MODEL 11LS14GH-3  
AMARILLO GEAR S300  
2100 GPM, 253’ TDH  
@ 192 H.P.  
2. CARGO PUMP ENGINE: IVECO/FPT  
DIESEL MODEL PU-1173

BARGE INFORMATION

YEAR BUILT: 2020  
HULL TYPE: I  
CARGO GRADE: A & LOWER PRODUCTS PER  
SUBCHAPTER "D" AND LIMITED SUBCHAPTER "O"  
PRODUCTS.

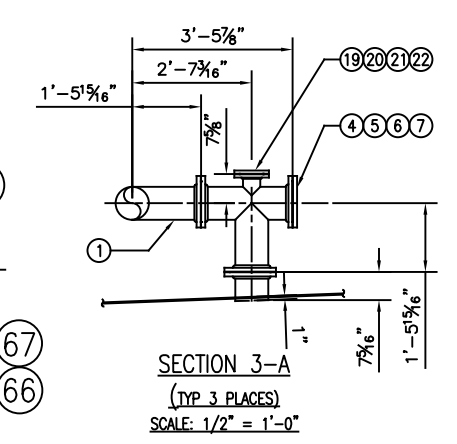
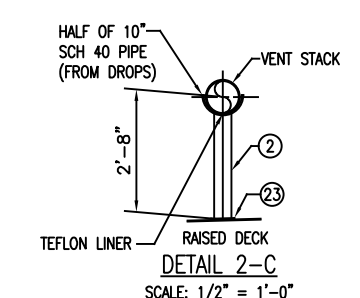
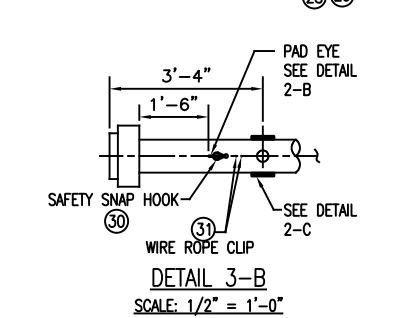
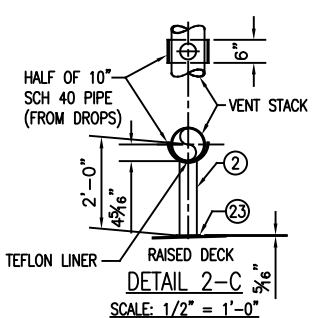
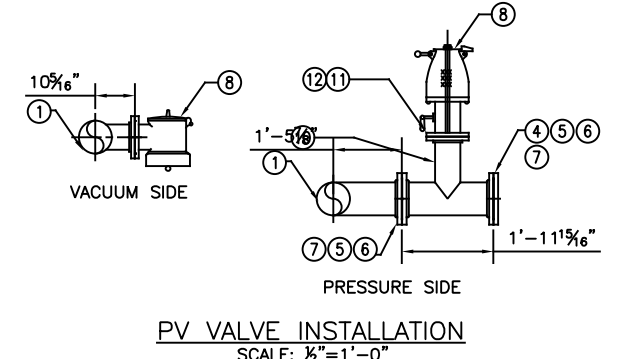
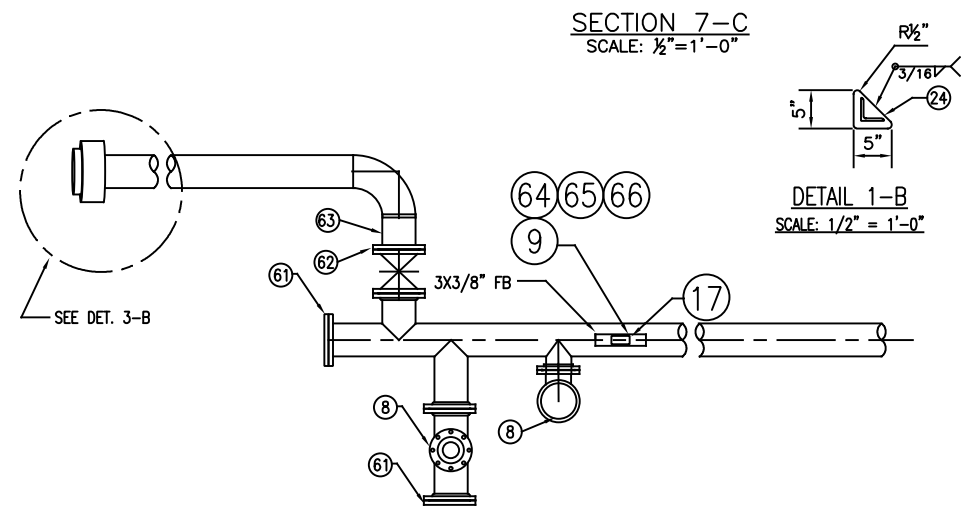
| CANAL BARGE COMPANY |        |
|---------------------|--------|
| NAME                | HULL # |
| CBC 1010            | 9830   |
| CBC 1011            | 9831   |
| CBC 1012            | 9832   |
| CBC 1013            | 9834   |
| CBC 1014            | 9836   |

| REV                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ITEM | DESCRIPTION    | DATE | BY           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------|------|--------------|
| REVISIONS                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                |      |              |
| MARINE SOLUTIONS, INC.<br>furnishes these drawings and specifications on a confidential basis with an expressed understanding that they will not be copied in any manner, used for manufacture, sold, transferred, nor used to the detriment of said firm without written permission. The recipient further agrees not to disclose these contents hereof to any other parties except for those specific purposes for which this drawing was issued. |      |                |      |              |
| MARINE SOLUTIONS, INC.<br>NASHVILLE<br>P.O. BOX 218197<br>NASHVILLE 37221<br>CELL: 615-364-9598<br>TEL: 615-662-9608<br>E-MAIL: MARINESOLINC@AOL.COM                                                                                                                                                                                                                                                                                                |      |                |      |              |
| HOUSTON<br>P.O. BOX 19878<br>SUGARLAND, TX 77496                                                                                                                                                                                                                                                                                                                                                                                                    |      |                |      |              |
| CANAL BARGE COMPANY, INC.                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                |      |              |
| 200'-0" X 35'-0" X 12'-6" DOUBLE SKIN TANK BARGE                                                                                                                                                                                                                                                                                                                                                                                                    |      |                |      |              |
| CARGO PIPING DIAGRAM<br>(SOUTHWEST SHIPYARD)                                                                                                                                                                                                                                                                                                                                                                                                        |      |                |      |              |
| SCALE: 3/16" = 1'-0"                                                                                                                                                                                                                                                                                                                                                                                                                                |      | DATE: 07/02/20 |      | DWG NO.      |
| DRAWN BY: MSI                                                                                                                                                                                                                                                                                                                                                                                                                                       |      | CK'D BY:       |      | 101907CPLM-1 |
| HULL NO. SEE LIST                                                                                                                                                                                                                                                                                                                                                                                                                                   |      | CONTRACT NO. 0 |      | SHT 1 OF 1   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | REV. 0         |      | PLOT: 1      |



- GENERAL NOTES:**
1. ALL PIPING TO MEET USCG AND ABS CLASS 11 REGULATIONS.
  2. MATERIAL TO BE AS SPECIFIED OR EQUAL.
  3. MAXIMUM ALLOWABLE WORKING PRESSURE (RELIEF VALVE SETTING) OF PIPING SYSTEM SHALL NOT EXCEED 1 1/2 PSI.
  4. TEST PIPING SYSTEM TO 3 PSI WITH CARGO TANK TESTING.
  5. 8" FLANGED JOINTS AND 4" PORT HAVE BEEN PROVIDED FOR INSPECTION.

| CANAL BARGE COMPANY |        |
|---------------------|--------|
| NAME                | HULL # |
| CBC XXX             | 9830   |
| CBC XXX             | 9831   |
| CBC XXX             | 9832   |
| CBC XXX             | 9834   |
| CBC XXX             | 9836   |



| ITEM NO. | QTY     | DESCRIPTION                                                                                          | ASTM NO.              | ANSI NO.           |
|----------|---------|------------------------------------------------------------------------------------------------------|-----------------------|--------------------|
| 1        | 202'    | 8" PIPE, SCH. 40, ERW, STEEL                                                                         | A-53 GR B             | B36.10             |
| 2        | 20"     | 4" PIPE, SCH. 40, ERW, STEEL                                                                         | A-53 GR B             | B36.10             |
| 3        | 3       | GATE VALVE, 8", 150#, CS BODY/CR 13 TRIM, SPACE OR EQ                                                | A-105                 | B16.5              |
| 4        | 9       | 8" BLIND FLANGE, 150#, R.F., FS                                                                      | A-105                 | B16.5              |
| 5        | 21      | RING GASKET, 1/8" THK., NON-ASBESTOSS, 150# 8" FLG., TEFLON                                          |                       |                    |
| 6        | 168     | BOLTS, 3/4" x 3 1/2" LG. FOR 8" FLG.                                                                 | BOLT: 304<br>NUT: 316 | B18.2.1<br>B18.2.2 |
| 7        | 21      | 8" FLANGE, 150#, SUP ON, R.F., FS                                                                    | A-105                 | B16.5              |
| 8        | 1       | PV VALVE, 6", BERGAN KLPH, SET AT 1 1/2 PSI PRESS/0.5 PSI VACUUM                                     | 304SS                 | B16.5              |
| 9        | 1       | PRESSURE VACUUM GAUGE, 4 PSI VAC. TO 4 PSI PRESS., 1/4" CONN.                                        |                       |                    |
| 10       | 4'      | 6" PIPE, SCH. 40, ERW, STEEL                                                                         | A-53 GR B             | B36.10             |
| 11       | 2       | 6" FLANGE, 150#, SUP ON, R.F., FS                                                                    | A-105                 | B16.5              |
| 12       | 2       | RING GASKET, 1/8" THK., NON-ASBESTOSS, 150# 6" FLG., TEFLON                                          |                       |                    |
| 13       | 1       | COUPLING, 3/4", 3000#, SCR'D, FS                                                                     | A-105                 | B16.11             |
| 14       | 1       | ELBOW, 90°, 3/4", 3000#, SCR'D, FS                                                                   | A-105                 | B16.11             |
| 15       | 1       | PLUG, 3/4", 3000#, SCR'D                                                                             | A-182-304             | B16.11             |
| 16       | 10"     | 3/4" PIPE, SCH. 40, ERW, STEEL                                                                       | A-106                 | B36.10             |
| 17       | 1       | VALVE, 3/4", THD.                                                                                    | 304SS                 | B16.5              |
| 18       | 13      | U-BOLT FOR 8" PIPE                                                                                   | BOLT: 304<br>NUT: 316 | B18.2.1<br>B18.2.2 |
| 19       | 24      | BOLTS, 5/8" x 3" LG. FOR 4" FLG.                                                                     | BOLT: 304<br>NUT: 316 | B18.2.1<br>B18.2.2 |
| 20       | 3       | 4" FLANGE, 150#, SUP ON, R.F., FS                                                                    | A-105                 | B16.5              |
| 21       | 3       | RING GASKET, 1/8" THK., NON-ASBESTOSS, 150# 4" FLG., TEFLON                                          |                       |                    |
| 22       | 3       | 4" BLIND FLANGE, 150#, R.F., FS                                                                      | A-105                 | B16.5              |
| 23       | 1       | PL 6" x 1/8" THK.                                                                                    | STEEL                 |                    |
| 24       | 6       | PL 5 1/2" x 1/8" - 5"                                                                                | STEEL                 |                    |
| 25       | 6       | L 3" x 3" x 1/8" x 3'-2" LG., (TRIM AT ASS'Y)                                                        | STEEL                 |                    |
| 26       | 10      | L 3" x 3" x 1/8" x 1'-2" LG.                                                                         | STEEL                 |                    |
| 27       | 20      | L 3" x 3" x 1/8" x 1'-0" LG. (TRIM AT ASS'Y)                                                         | STEEL                 |                    |
| 28       | 1       | WIRE CLOTH, 30X30 MESH, 6" x 30" LG.                                                                 | 304SS                 |                    |
| 29       | 2       | WORM DRIVE CLAMP, 8 1/4" TO 9 1/8" DIA.                                                              | 304SS                 |                    |
| 30       | 1       | SAFETY SNAP, RIGID EYE, ZINC PLATED, 750# RATED, 3/4" SNAP OPENING, 3/4" EYE DIA, 4" OVERALL LENGTH. |                       |                    |
| 31       | 4       | 1/4", WIRE ROPE CLIP, GALV. STL.                                                                     |                       |                    |
| 32       | 16      | BOLTS, 3/4" x 3 1/4" LG. FOR 6" FLG.                                                                 | BOLT: 304<br>NUT: 316 | B18.2.1<br>B18.2.2 |
| 33       | 4'-2"   | 2 1/2" PIPE, SCH. 40, ERW (4'-2 3/16" LG.)                                                           | A-53 GR B             | B36.10             |
| 34       | 18 3/4" | 2" PIPE, SCH. 40, ERW                                                                                | A-53 GR B             | B36.10             |
| 35       | 1       | HALF OF 4" SCH40 PIPE (CUT FROM CROPS)                                                               |                       |                    |
| 36       | 2       | PL 3 1/2" x 3/8" x 0'-4" LG.                                                                         | STEEL                 |                    |

| REV                                                                                                                                                                                                                                                                                                                                                                                                                       | ITEM | DESCRIPTION    | DATE | BY         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------|------|------------|
| REVISIONS                                                                                                                                                                                                                                                                                                                                                                                                                 |      |                |      |            |
| MARINE SOLUTIONS, INC.                                                                                                                                                                                                                                                                                                                                                                                                    |      |                |      |            |
| furnishes these drawings and specifications on a confidential basis with an expressed understanding that they will not be copied in any manner, used for manufacture, sold, transferred, nor used to the detriment of said firm without written permission. The recipient further agrees not to disclose these contents hereof to any other parties except for those specific purposes for which this drawing was issued. |      |                |      |            |
| <div> <div> <p><b>MARINE SOLUTIONS, INC.</b><br/>NASHVILLE<br/>P.O. BOX 218197<br/>NASHVILLE 37221</p> </div> <div> <p>CELL: 615-364-9598<br/>TEL: 615-662-9608<br/>E-MAIL: MARINESOLINC@AOL.COM</p> </div> <div> <p>HOUSTON<br/>P.O. BOX 19878<br/>SUGARLAND, TX 77496</p> </div> </div>                                                                                                                                 |      |                |      |            |
| <b>CANAL BARGE COMPANY</b>                                                                                                                                                                                                                                                                                                                                                                                                |      |                |      |            |
| <b>200'-0"x35'-0"x12'-6" DOUBLE-SKIN TANK BARGE</b>                                                                                                                                                                                                                                                                                                                                                                       |      |                |      |            |
| <b>VAPOR PIPING</b>                                                                                                                                                                                                                                                                                                                                                                                                       |      |                |      |            |
| <b>(SOUTHWEST SHIPYARD, L.P.)</b>                                                                                                                                                                                                                                                                                                                                                                                         |      |                |      |            |
| SCALE: 1/8"=1'-0"                                                                                                                                                                                                                                                                                                                                                                                                         |      | DATE: 12/23/19 |      | DWG. NO.   |
| DRAWN BY: ck                                                                                                                                                                                                                                                                                                                                                                                                              |      | CK'D BY:       |      | 101907VP-1 |
| HULL NO. SEE LIST                                                                                                                                                                                                                                                                                                                                                                                                         |      | CONTRACT NO. 0 |      | SHT 1 OF 2 |
|                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                |      | REV. 0     |
| PLOT: 1:1                                                                                                                                                                                                                                                                                                                                                                                                                 |      |                |      |            |