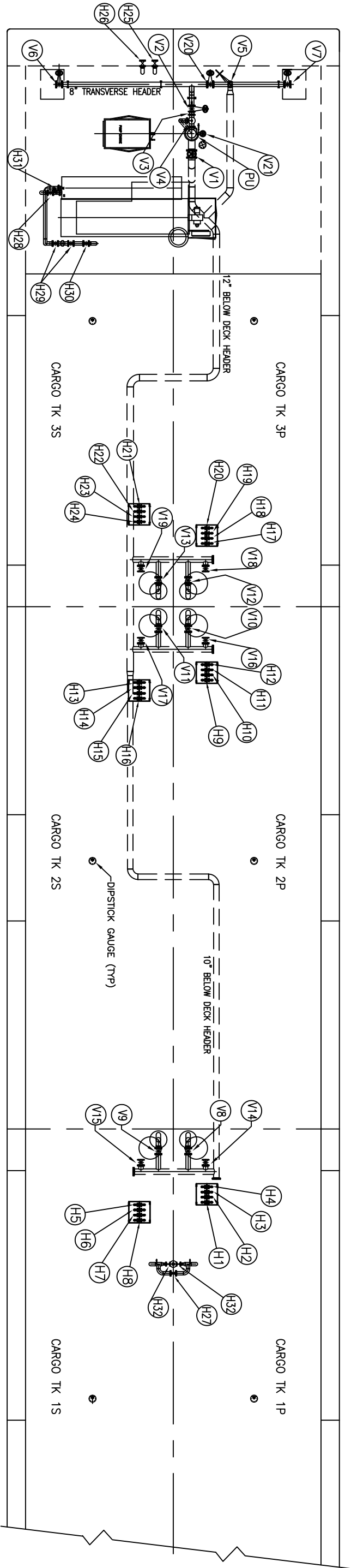




VALVE IDENTIFICATION CHART

- V1 PUMP SUCTION VALVE
- V2 PUMP DISCHARGE VALVE
- V3 PUMP DISCHARGE CHECK VALVE
- V4 PRESSURE RELIEF VALVE
- V5 CARGO FILL/LOAD VALVE
- V6 STBD HEADER VALVE
- V7 PORT HEADER VALVE
- V8 #1 PORT CARGO FILL/SUCTION VALVE
- V9 #1 STBD. CARGO FILL/SUCTION VALVE
- V10 #2 PORT CARGO FILL/SUCTION VALVE
- V11 #2 STBD. CARGO FILL/SUCTION VALVE
- V12 #3 PORT CARGO FILL/SUCTION VALVE
- V13 #3 STBD. CARGO FILL/SUCTION VALVE
- V14 #1 PORT CARGO HIGH LOADING VALVE
- V15 #1 STBD. CARGO HIGH LOADING VALVE
- V16 #2 PORT CARGO HIGH LOADING VALVE
- V17 #2 STBD. CARGO HIGH LOADING VALVE
- V18 #3 PORT CARGO HIGH LOADING VALVE
- V19 #3 STBD. CARGO HIGH LOADING VALVE
- V20 PUMPWELL DRAIN VALVE
- PU CARGO PUMP

TO LOAD

- OPEN: V5,V8,V9,V10,V11,V12,V13
- OPEN: V14,V15,V16,V17,V18,V19

- CLOSE V1 & V2 & V21

- OPEN: V6 OR V7 TO DOCK

- OPEN: V20 IF NECESSARY

TO PUMP

- OPEN: V1,V2,V8,V9,V10,V11,V12,V13
- CLOSE: V5,V14,V15,V16,V17,V18,V19 & V21
- OPEN: V6 OR V7 TO DOCK
- OPEN: V20 IF NECESSARY

HOT OIL SYSTEM:

- H1 #1 PORT HOT OIL SUPPLY VALVE - LOWER
- H2 #1 PORT HOT OIL SUPPLY VALVE - UPPER
- H3 #1 STBD HOT OIL SUPPLY VALVE - LOWER
- H4 #1 STBD HOT OIL SUPPLY VALVE - UPPER
- H5 #1 PORT HOT OIL RETURN VALVE - LOWER
- H6 #1 PORT HOT OIL RETURN VALVE - UPPER
- H7 #1 STBD HOT OIL RETURN VALVE - LOWER
- H8 #1 STBD HOT OIL RETURN VALVE - UPPER
- H9 #2 PORT HOT OIL SUPPLY VALVE - LOWER
- H10 #2 PORT HOT OIL SUPPLY VALVE - UPPER
- H11 #2 STBD HOT OIL SUPPLY VALVE - LOWER
- H12 #2 STBD HOT OIL SUPPLY VALVE - UPPER
- H13 #2 PORT HOT OIL RETURN VALVE - UPPER
- H14 #2 PORT HOT OIL RETURN VALVE - LOWER
- H15 #2 STBD HOT OIL RETURN VALVE - LOWER
- H16 #2 STBD HOT OIL RETURN VALVE - UPPER
- H17 #3 PORT HOT OIL SUPPLY VALVE - UPPER
- H18 #3 STBD HOT OIL SUPPLY VALVE - LOWER
- H19 #3 PORT HOT OIL SUPPLY VALVE - UPPER
- H20 #3 PORT HOT OIL SUPPLY VALVE - LOWER
- H21 #3 PORT HOT OIL RETURN VALVE - UPPER
- H22 #3 PORT HOT OIL RETURN VALVE - LOWER
- H23 #3 STBD HOT OIL RETURN VALVE - UPPER
- H24 #3 STBD HOT OIL RETURN VALVE - LOWER
- H25 HOT OIL SUPPLY CONNECTION
- H26 HOT OIL RETURN CONNECTION
- H27 HOT OIL BY-PASS
- H28 HOT OIL SUPPLY VALVE
- H29 HOT OIL STRAINER ISOLATION VALVES
- H30 HOT OIL RETURN BLOCK VALVE
- H31 HOT OIL SUPPLY/RETURN BYPASS VALVE
- H32 HOT OIL BYPASS BLOCK VALVES

TANK VOL. 100% FULL

TANK	GAL.	BBL.	CU. FT.
1P	189,783	4519	25,370
1S	189,783	4519	25,370
2P	185,175	4409	24,754
2S	185,175	4409	24,754
3P	175,836	4187	23,506
3S	175,836	4187	23,506
TOTAL	1,101,586	26,228	147,261
		98% FULL	25,704

PLAN

1/8" = 1'-0"

FWD

BARGE INFORMATION

HULL NO.	2180-1	2180-2	2180-6
NAME:	CBC 7033	CBC 7034	CBC 339
OFF. #	1221249	1221250	1221254

YEAR BUILT: 2009
HULL TYPE: III
CARGO GRADE: B & LOWER
SUBCHAPTER "D" PRODUCTS

SPECIAL FEATURES

- 1. CARGO PUMP: BYRON JACKSON
MODEL 12LS16GHC
AMARILLO GEAR 1:1 RATIO
2800 GPM, 237' TDH
207 H.P.
- 2. CARGO PUMP ENGINE: CUMMINS
6 CTA 8.3 ENGINE

REV	ITEM	DESCRIPTION	DATE	BY
AB	AS-BUILT		12/07/09	MD
4	ADDED PUMPWELL DRAIN VALVE		10/07/09	SDB
3	ADDED CAPACITIES, SPECIAL FEATURES & BARGE INFO.		9/29/09	SDB
2	UPDATED PER CUSTOMER CHANGES		9/08/09	KJA
1	REVISED PER PRE-CONSTRUCTION MEETING		7/15/09	CVA

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TRINITY MARINE PRODUCTS, INC.

1800 Trinity Road - Midland City, AL 36051

CANAL BARGE COMPANY, INC.

297'-0" X 54'-0" X 12'-0" DOUBLE SKIN TANK BARGE

PIPING DIAGRAM

HULL NO.	2180-1	CBC 7033	SCALE:	1/8" = 1'-0"	DATE:	6/9/09	DWG NO.	
DRAWN BY:	SDB	CKD BY:	CVA	APPR BY:			P-01	
YARD:	MADSONVILLE	TAG NO.	38174				SHT 1 OF 1	
HULL NO.	2180-1,2,6	SHOP ORDER:					REV. 4AB	

*VALUES FOR LEVEL TRIM WITH FUEL TANK AT 98% FULL

CAPACITIES--SHORT TONS AT VARIOUS DRAFTS*				
DRAFT (FT)	TOTAL (S.T.)	TANK NUMBER		
		1 P/S	2 P/S	3 P/S
2.5	169.70	60.68	59.42	49.60
3.0	405.38	143.22	139.74	122.42
3.5	641.96	225.82	222.08	194.06
4.0	879.40	310.12	303.40	265.88
4.5	1117.78	394.92	386.24	336.62
5.0	1357.00	481.14	468.32	407.54
5.5	1597.10	567.40	552.92	476.78
6.0	1837.90	654.14	638.26	545.50
6.5	2079.62	742.02	723.86	613.74
7.0	2322.24	830.82	809.72	681.70
7.5	2565.70	919.82	897.60	748.28
8.0	2810.04	1010.16	985.22	814.66
8.5	3055.24	1101.08	1074.10	880.06
9.0	3301.16	1193.28	1162.22	945.66
9.5	3548.00	1285.58	1252.60	1009.82
10.0	3795.72	1379.10	1343.50	1073.12
10.5	4044.28	1472.42	1436.66	1135.20
11.0	4293.68	1567.56	1528.56	1197.56
11.5	4542.28	1662.26	1621.90	1258.12
MAX CAPACITY - BBL (100%)				
	26,228	9037	8818	8373
MAX CAPACITY - CU. FT. (100%)				
	147,261	50741	49509	47012