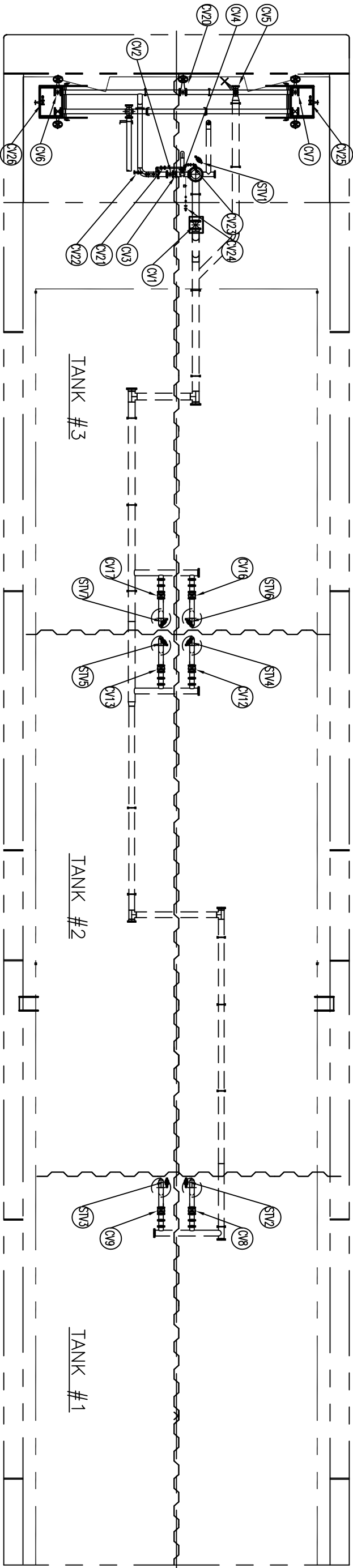




CARGO SYSTEM

LOADING/UNLOADING PROCEDURE

(FOR LEVEL LOADING/UNLOADING OF A SINGLE PRODUCT)

TO LOAD:

OPEN

CV6 OR CV7, CV5, CV8, CV9, CV12, CV13, CV16, CV17, CV20.

CLOSE

CV1, CV2, CV21, CV22, CV23, CV24, CV25, CV26.

TO DISCHARGE:

OPEN

CV6 OR CV7, CV1, CV2, CV8, CV9, CV12, CV13, CV16, CV17, CV20.

CLOSE

CV5, CV21, CV22, CV23, CV24, CV25, CV26.

- CV1 PUMP SUCTION VALVE
CV2 PUMP DISCHARGE VALVE
CV3 PUMP DISCHARGE CHECK VALVE
CV4 PRESSURE RELIEF VALVE
CV5 CARGO FILL/LOAD VALVE
CV6 STBD HEADER VALVE
CV7 PORT HEADER VALVE
CV8 #1 PORT CARGO FILL/SUCTION VALVE
CV9 #1 STBD CARGO FILL/SUCTION VALVE
CV12 #2 PORT CARGO FILL/SUCTION VALVE
CV13 #2 STBD CARGO FILL/SUCTION VALVE
CV16 #3 PORT CARGO FILL/SUCTION VALVE
CV17 #3 STBD CARGO FILL/SUCTION VALVE
CV20 TRANSVERSE HEADER BLOCK VALVE
CV21 PUMP DISCHARGE BYPASS
CV22 PUMP DISCHARGE HEADER DRAIN
CV23 PUMP BURP LINE VALVE
CV24 PUMP BURP LINE CHECK VALVE
CV25 PORT DRIP TRAY WATER DRAIN
CV26 STBD DRIP TRAY WATER DRAIN

STRIPPING SYSTEM

- STV1 STRIPPING VALVE PUMPELL
STV2 STRIPPING VALVE TANK #1P
STV3 STRIPPING VALVE TANK #1S
STV4 STRIPPING VALVE TANK #2P
STV5 STRIPPING VALVE TANK #2S
STV6 STRIPPING VALVE TANK #3P
STV7 STRIPPING VALVE TANK #3S

TANK	GAL.	BBL.	CU. FT.
1P	220110	5241	29426
1S	220110	5241	29426
2P	215040	5120	28747
2S	215040	5120	28747
3P	206262	4911	27573
3S	206262	4911	27573
TOTAL	1282824	30,544	171492
		98% FULL	29,933

TANK VOL. 100% FULL

MAX CAPACITY - BBL (100%)			
TANK NUMBER			
TOTAL	1 ^P	2 ^S	3 ^S
30544	10482	10240	9822
MAX CAPACITY - CU. FT. (100%)			
TANK NUMBER			
TOTAL	1 ^P	2 ^S	3 ^S
171492	58852	57494	55146

FOR LEVEL LOADING OF A SINGLE PRODUCT

CAPACITIES-SHORT TONS AT VARIOUS DRAFTS*					
DRAFT (FT)	TOTAL (S.T.)	TANK NUMBER			
		3 ^P	2 ^S	1 ^P	1 ^S
2.5	218.48	65.37	21.68	22.19	22.19
3.0	447.74	101.87	60.29	61.71	61.71
3.5	678.69	138.88	99.07	101.40	101.40
4.0	911.23	175.76	138.30	141.55	141.55
4.5	1145.22	212.28	178.07	182.26	182.26
5.0	1380.60	248.18	218.50	223.63	223.63
5.5	1617.27	283.74	259.40	265.49	265.49
6.0	1855.19	318.66	300.93	308.00	308.00
6.5	2094.26	353.24	342.91	350.97	350.97
7.0	2334.48	387.49	385.35	394.40	394.40
7.5	2575.76	421.11	428.35	438.42	438.42
8.0	2818.09	454.31	471.83	482.91	482.91
8.5	3061.42	487.14	515.73	527.85	527.85
9.0	3305.71	519.69	560.00	573.16	573.16
9.5	3550.94	551.68	604.79	619.00	619.00
10.0	3797.06	583.44	649.91	665.18	665.18
10.5	4044.06	614.69	695.50	711.84	711.84
11.0	4291.89	645.56	741.48	758.90	758.90
11.5	4540.55	676.15	787.81	806.32	806.32

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

SPECIAL FEATURES

- CARGO PUMP: BYRON JACKSON MODEL 111S14GH-3 AMARILLO S200A GEAR 1:1 RATIO 2200 GPM, 250' TDH @ 180 H.P.
- CARGO PUMP ENGINE: CUMMINS 6 CTA 8.3 ENGINE

BARGE INFORMATION

HULL NO.	2207-1	2207-2	2207-3	2207-4
NAME:	CBC 313	CBC 314	CBC 315	CBC 316
OFF. #	1244509	1244510	1244511	1244512

YEAR BUILT: 2012/2013
HULL TYPE: III
CARGO GRADE: A & CERTAIN
SUBCHAPTER "O" PRODUCTS

REV	ITEM	DESCRIPTION	DATE	BY
		REVISIONS		

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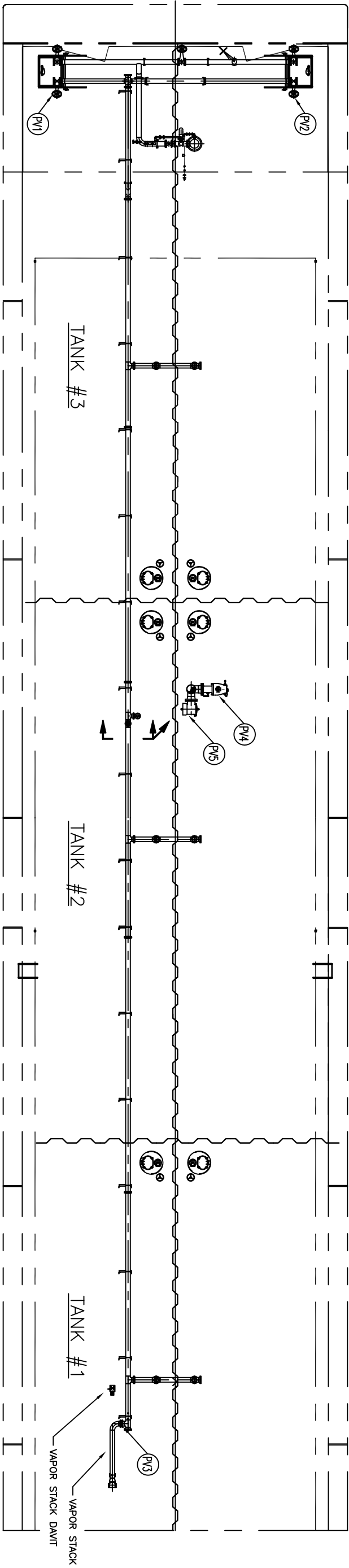
TRINITY MARINE PRODUCTS, INC.
1801 Trinity Road - Mobile, AL 36688

CANAL BARGE COMPANY, INC.

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

CARGO PIPING DIAGRAM

SCALE:	N/A	DATE:	10/30/12	DWG NO.	
DRAWN BY:	PGC	CHKD BY:	SDR	APPR BY:	P-01C
YARD:	MADISONVILLE	TAG NO.	38201	SHT 1 OF 1	
HULL NO.	2207-1	THRU	4	SHOP ORDER:	REV. 0



VAPOR SYSTEM:

- PV1 STBD TRANSVERSE HEADER VALVE
- PV2 PORT TRANSVERSE HEADER VALVE
- PV3 VENT STACK BLOCK VALVE
- PV4 PRESSURE RELIEF VALVE
- PV5 VACUUM RELIEF VALVE

REV	ITEM	DESCRIPTION	DATE	BY
REVISIONS				

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TRINITY MARINE PRODUCTS, INC.
TANK BARGE DIVISION
1800 Trinity Road - Milled Ck., In. 37015

CANAL BARGE COMPANY, INC.

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

VAPOR PIPING

SCALE: N/A		DATE: 10/8/12	DWG NO.
DRAWN BY: PGC	CK'D BY: SDB	APPR BY:	P-01V
YARD: MADISONVILLE	TAG NO. 38201	SHT 1 OF 1	
HULL NO 2207-1	THRU 4	SHOP ORDER:	REV. 0