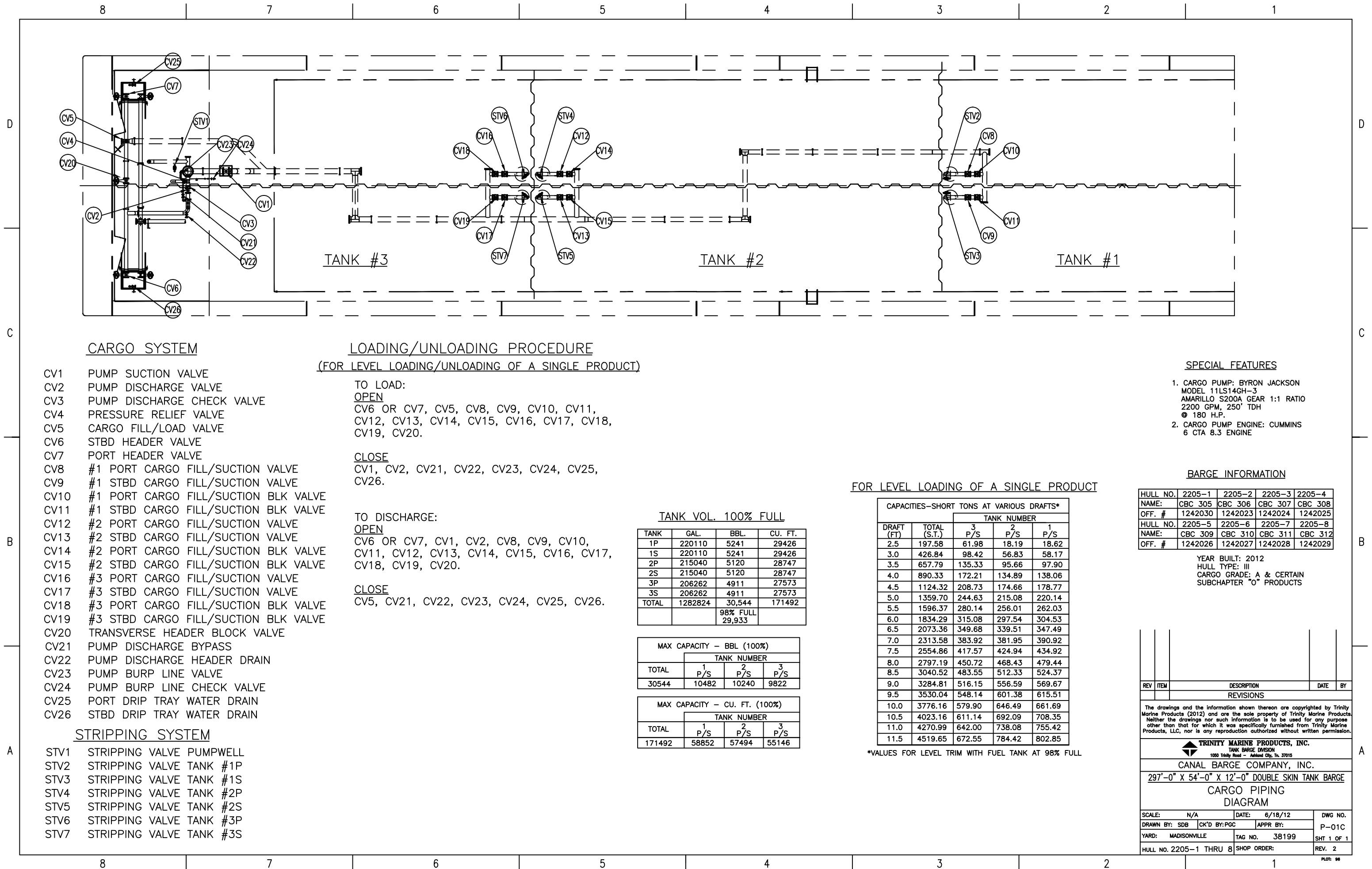




CARGO SYSTEM

- 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
CV10 #1 PORT CARGO FILL/SUCTION BLK VALVE
CV11 #1 STBD CARGO FILL/SUCTION BLK VALVE
CV12 #2 PORT CARGO FILL/SUCTION VALVE
CV13 #2 STBD CARGO FILL/SUCTION VALVE
CV14 #2 PORT CARGO FILL/SUCTION BLK VALVE
CV15 #2 STBD CARGO FILL/SUCTION BLK VALVE
CV16 #3 PORT CARGO FILL/SUCTION VALVE
CV17 #3 STBD CARGO FILL/SUCTION VALVE
CV18 #3 PORT CARGO FILL/SUCTION BLK VALVE
CV19 #3 STBD CARGO FILL/SUCTION BLK 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 PUMPWELL
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

LOADING/UNLOADING PROCEDURE
(FOR LEVEL LOADING/UNLOADING OF A SINGLE PRODUCT)

TO LOAD:
OPEN
CV6 OR CV7, CV5, CV8, CV9, CV10, CV11,
CV12, CV13, CV14, CV15, CV16, CV17, CV18,
CV19, CV20.

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

TO DISCHARGE:
OPEN
CV6 OR CV7, CV1, CV2, CV8, CV9, CV10,
CV11, CV12, CV13, CV14, CV15, CV16, CV17,
CV18, CV19, CV20.

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

TANK VOL. 100% FULL

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

MAX CAPACITY - BBL (100%)			
TOTAL	TANK NUMBER		
	1 P/S	2 P/S	3 P/S
30544	10482	10240	9822

MAX CAPACITY - CU. FT. (100%)			
TOTAL	TANK NUMBER		
	1 P/S	2 P/S	3 P/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/S	2 P/S	1 P/S
2.5	197.58	61.98	18.19	18.62
3.0	426.84	98.42	56.83	58.17
3.5	657.79	135.33	95.66	97.90
4.0	890.33	172.21	134.89	138.06
4.5	1124.32	208.73	174.66	178.77
5.0	1359.70	244.63	215.08	220.14
5.5	1596.37	280.14	256.01	262.03
6.0	1834.29	315.08	297.54	304.53
6.5	2073.36	349.68	339.51	347.49
7.0	2313.58	383.92	381.95	390.92
7.5	2554.86	417.57	424.94	434.92
8.0	2797.19	450.72	468.43	479.44
8.5	3040.52	483.55	512.33	524.37
9.0	3284.81	516.15	556.59	569.67
9.5	3530.04	548.14	601.38	615.51
10.0	3776.16	579.90	646.49	661.69
10.5	4023.16	611.14	692.09	708.35
11.0	4270.99	642.00	738.08	755.42
11.5	4519.65	672.55	784.42	802.85

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

SPECIAL FEATURES

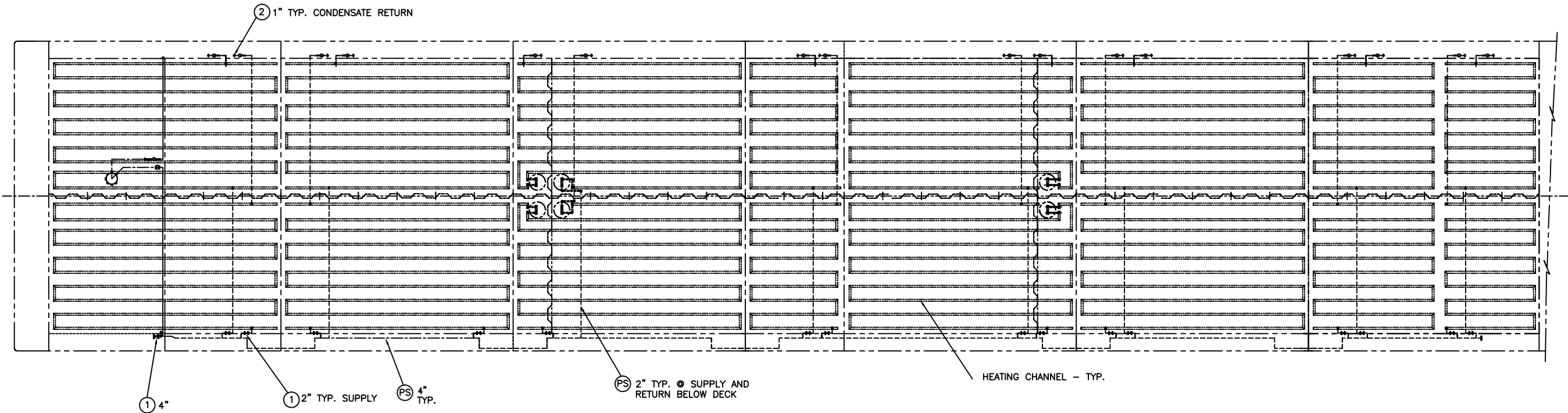
- CARGO PUMP: BYRON JACKSON
MODEL 11LS14GH-3
AMARILLO S200A GEAR 1:1 RATIO
2200 GPM, 250' TDH
⊙ 180 H.P.
- CARGO PUMP ENGINE: CUMMINS
6 CTA 8.3 ENGINE

BARGE INFORMATION

HULL NO.	2205-1	2205-2	2205-3	2205-4
NAME:	CBC 305	CBC 306	CBC 307	CBC 308
OFF. #	1242030	1242023	1242024	1242025
HULL NO.	2205-5	2205-6	2205-7	2205-8
NAME:	CBC 309	CBC 310	CBC 311	CBC 312
OFF. #	1242026	1242027	1242028	1242029

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

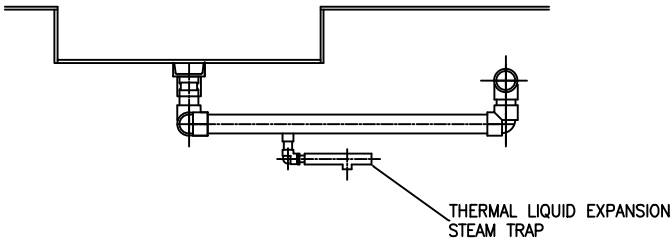
REV	ITEM	DESCRIPTION	DATE	BY
REVISIONS				
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TRINITY MARINE PRODUCTS, INC. TANK BARGE DIVISION 1050 Trinity Road - Joliet, Ill. 37015				
CANAL BARGE COMPANY, INC. 297'-0" X 54'-0" X 12'-0" DOUBLE SKIN TANK BARGE				
CARGO PIPING DIAGRAM				
SCALE:	N/A	DATE:	6/18/12	DWG NO.
DRAWN BY:	SDB	CK'D BY:	PGC	APPR BY:
YARD:	MADISONVILLE	TAG NO.	38199	SHT 1 OF 1
HULL NO.	2205-1 THRU 8	SHOP ORDER:		REV. 2



PIPING LIST OF MATERIALS

PC. NO.	PART	DESCRIPTION	MFG	NOMINAL SIZE	MATERIAL	RATING	ASTM NO.	ANSI NO.	
1	GATE VALVE	FIG. 15011C, FLG'D OS&Y	SPACE	ALL	CAST STL/SS TRIM	150#	A-216 WCB	B16.34	
2	GATE VALVE	#1155, FLG'D	WARREN	1"	CAST STL/SS TRIM	150#	A-216 WCB	B16.34	
3	RELIEF VALVE	FIG. 6283ED01, SET @ 125 PSI	KUNKLE	3/4"	BRONZE	125#	B-62	B16.34	
PS	PIPE	STD. WT., SEAMLESS		ALL	STL		A-53	B36.10	
	PIPE FLANGE	WN, SO, BLIND & SW		ALL	STL	150#	A-181	B16.5	
	JOINTS	UNION, COUPLING		2" & BLW	F.S.	3000#	A-105	B16.11	
	PIPE FITTINGS	BUTT WELD		ABV 2"	STL	STD.WT.	A-234	B16.9	
	PIPE FITTINGS	SCRD, SW		2" & BLW	F.S.	3000#	A-105	B16.11	
PSS	PIPE	STD. WT., SEAMLESS		ALL	STN. STL		A-312	B36.19	
	PIPE FLANGE	WN, SO, BLIND & SW		ALL	STN. STL	150#	A-182	B16.5	
	JOINTS	UNION, COUPLING		2" & BLW	STN. STL	3000#	A-182	B16.11	
	PIPE FITTINGS	SCRD, SW		2" & BLW	STN. STL	3000#	A-182	B16.11	
	GASKETS	NON-ASBESTOS		ALL	TEFLON				
	EXPANSION TRAP	FREEZETON LIQUID EXPANSION STEAM TRAP, MODEL 74140	SPIRAX SARCO	ALL	CAST IRON		A-126 CL. B		

- GENERAL NOTES
- ALL PIPING TO MEET USCG II REGULATIONS.
 - BACKING RINGS SHALL BE USED AT BUTT WELD JOINTS 2" AND LARGER
 - PIPES PASSING THROUGH WATER/OIL TIGHT BOUNDARIES TO BE WELDED BOTH SIDES.
 - CARGO SYSTEM:
PRESSURE, WORKING 100 PSI
DESIGN 125 PSI
TEST 187.5 PSI
RELIEF VALVE 125 PSI
MAXIMUM TEMPERATURE 375
 - MATERIAL TO BE AS SPECIFIED OR EQUAL



TYPICAL DETAIL @ EXPANSION
STEAM TRAP ON CONDENSATE

1	REVISED TO UPDATE TO SPECS	5/29/12	BP		
REV	ITEM	DESCRIPTION	DATE	BY	
REVISIONS					
TRINITY MARINE PRODUCTS, INC.					
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TRINITY MARINE PRODUCTS, INC. P.O. BOX 790 - Madisonville, La. 70447					
CANAL BARGE COMPANY, INC.					
297'-6 X 54' X 12'-0 DOUBLE SKIN TANK BARGE					
STEAM PIPING DIAGRAM					
SCALE:	NTS	DATE:	5/22/12	DWG NO.	
DRAWN BY:	BP	CK'D BY:		CP-23	
YARD:	MADISONVILLE	TAG NO.	38199	SHT 1 OF 1	
HULL NO2205-1 THRU 8	SHOP ORDER:			REV.	1