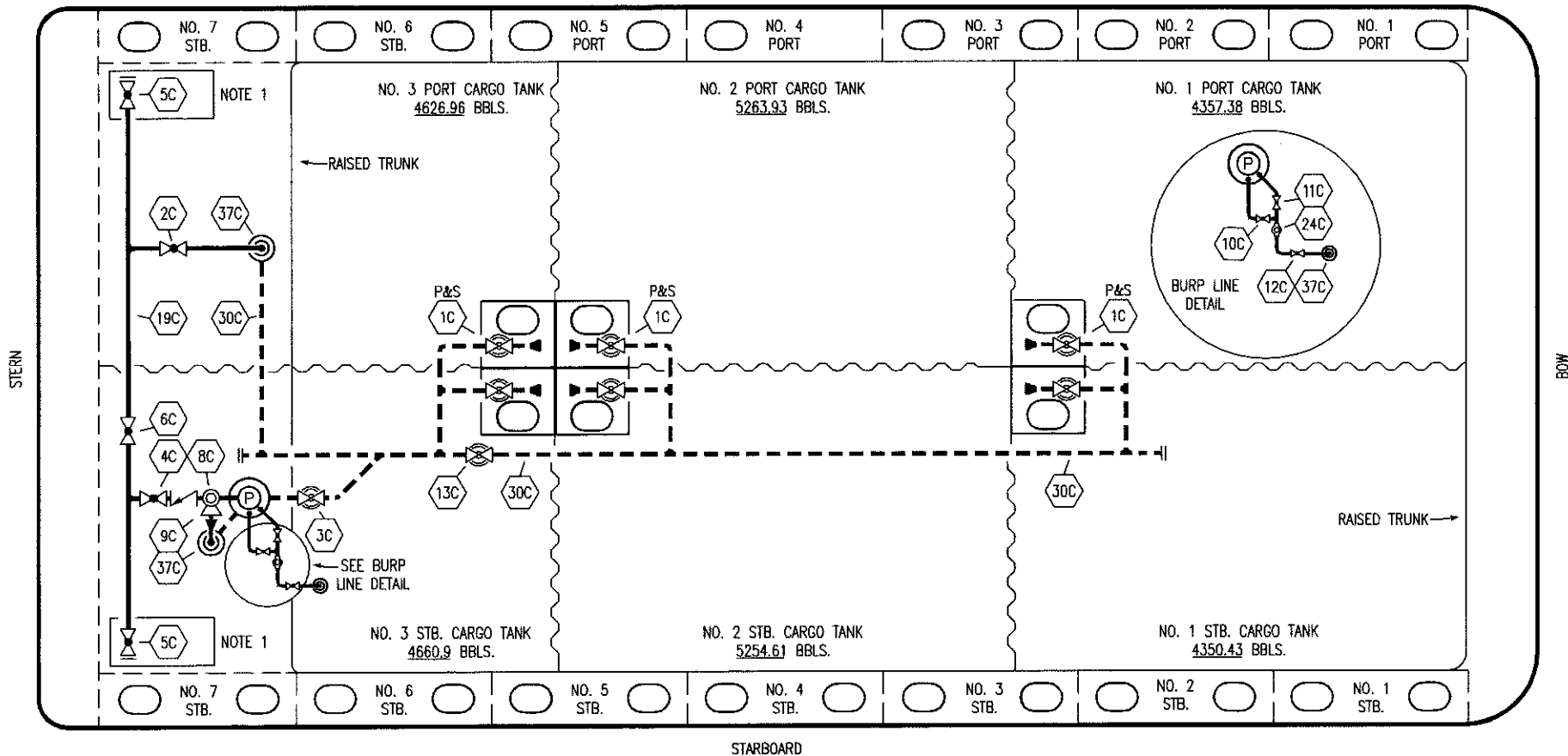


PORT



STARBOARD

- |     |                      |
|-----|----------------------|
| NO  | DESCRIPTION          |
| 1C  | CARGO TANK VALVE     |
| 2C  | LOAD VALVE           |
| 3C  | MASTER SUCTION VALVE |
| 4C  | DISCHARGE VALVE      |
| 5C  | HEADER VALVE         |
| 6C  | SALVAGE VALVE        |
| 8C  | RELIEF VALVE         |
| 9C  | CHECK VALVE          |
| 10C | 1" BURP VALVE        |
| 11C | 1" BLEED OFF VALVE   |

- |     |                                    |
|-----|------------------------------------|
| NO  | DESCRIPTION                        |
| 12C | 1" BURP VALVE RETURN TO CARGO TANK |
| 13C | CARGO PIPING BLOCK VALVE           |
| 19C | CARGO HEADER                       |
| 24C | 1" PIPE FLOW INDICATOR             |
| 30C | CARGO PIPELINE                     |
| 37C | CARGO DROP                         |
| --- | ABOVE DECK PIPING                  |
| --- | BELOW DECK PIPING                  |

NOTE 1: CONTAINMENT P/S

WEST GULF MARINE -- EX: N/A

0	11/16/09	RB	RB	OF	APPROVED
REV.	DATE	BY	CHK	APP	REVISION DESCRIPTION

**KIRBY INLAND MARINE** 

**CARGO**

**PIPING FLOW DIAGRAM**

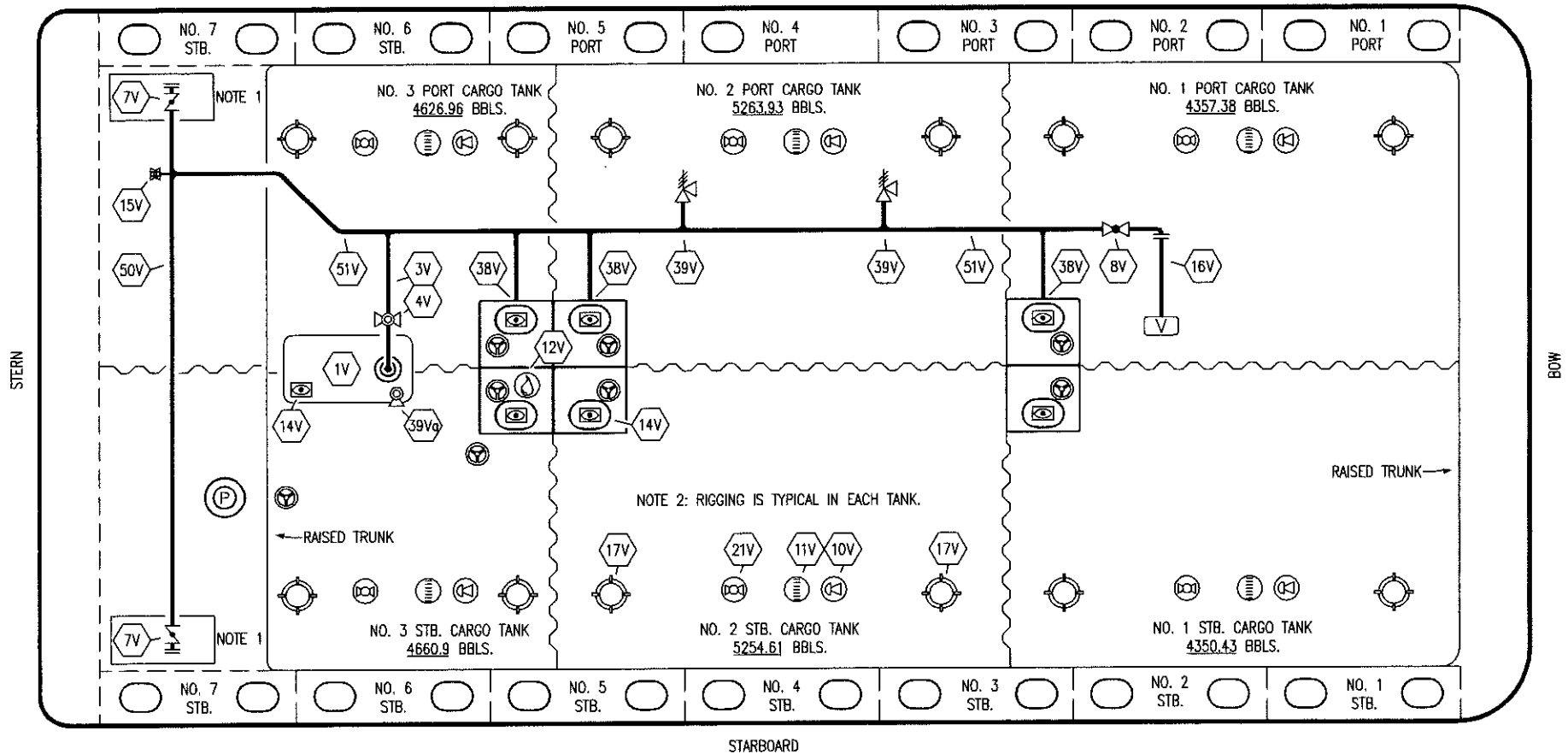
SCALE: NONE

**KIRBY 28045**

PAGE: 1 OF 3

REV. **0**

PORT



NOTE 2: RIGGING IS TYPICAL IN EACH TANK.

NO	DESCRIPTION	NO	DESCRIPTION
1V	3000 GAL. SLOP TANK	16V	8" VAPOR VENT STACK
3V	2" SLOP TANK VENT PIPING	17V	20" BUTTERWORTH
4V	2" SLOP TANK SPEC VENT VALVE	21V	2" HERMETIC GAUGE
7V	8" HEADER VALVE	38V	8" VAPOR PENETRATION (P)
8V	8" VENT STACK VALVE	39V	6" PRESS/VAC RELIEF VALVE
11V	8" 1-METER GAUGE STICK	39Vg	4" PRESS/VAC RELIEF VALVE
10V	8" HIGH LEVEL/OVERFILL ALARM	50V	8" VAPOR HEADER
12V	2" HERMETIC SAMPLE	51V	8" VAPOR PIPELINE
14V	8" SIGHT GLASS	—	ABOVE DECK PIPING
15V	2" INSPECTION PORT		

NOTE 1: CONTAINMENT P/S

NOTE 2: RIGGING IS TYPICAL IN EACH TANK.

WEST GULF MARINE - EX: N/A

REV.	DATE	BY	CHK	APP	REVISION DESCRIPTION
0	11/16/09	RB	RB	OF	APPROVED

WEST GULF MARINE - EX: N/A

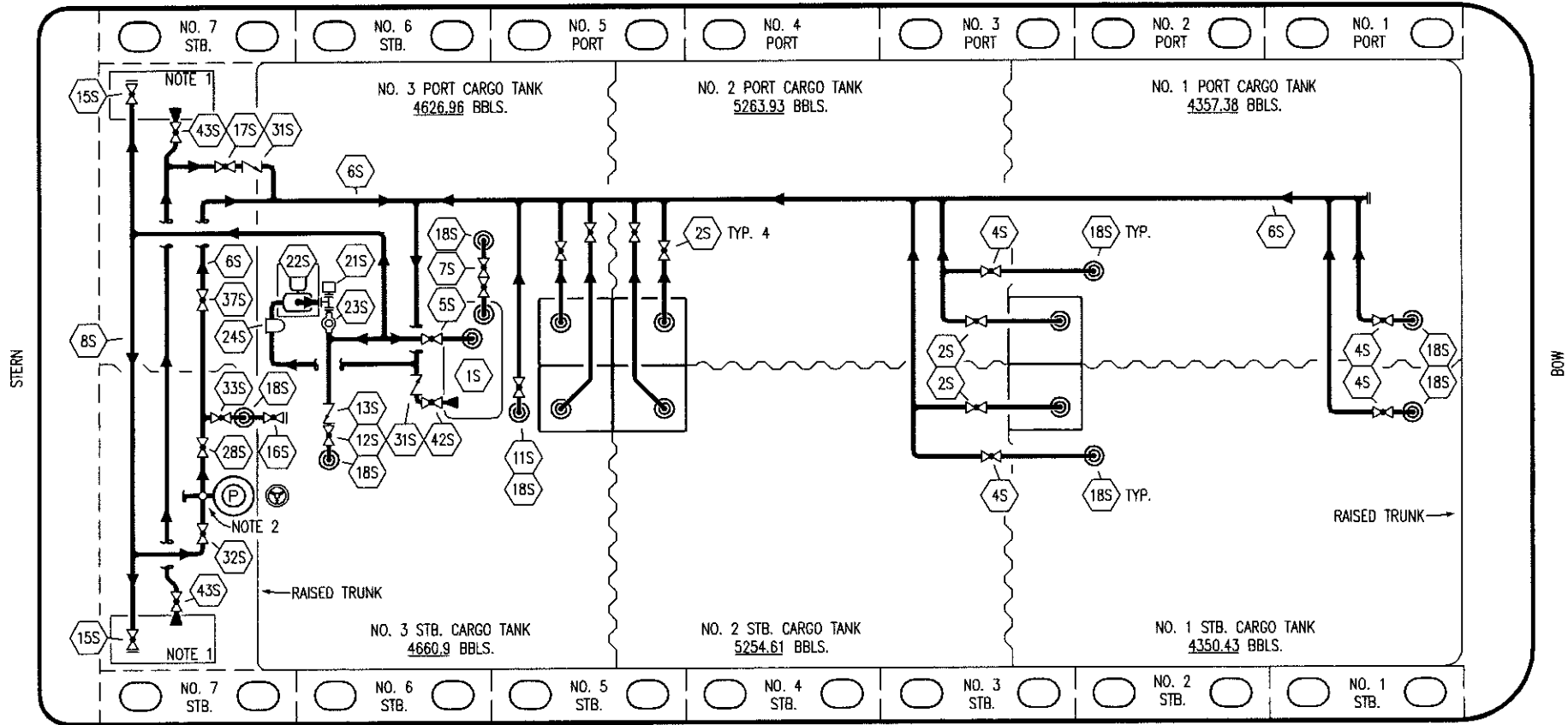
KIRBY INLAND MARINE

VAPOR  
PIPING FLOW DIAGRAM

KIRBY 28045

SCALE: NONE  
PAGE: 2 OF 3  
REV. 0

PORT



NO	DESCRIPTION	NO	DESCRIPTION
1S	SLOP TANK	16S	REMOTE SUCTION CONNECTION
2S	CARGO SUMP SUCTION VALVE	17S	FORWARD CARGO TANK ISOLATION
4S	CARGO TANK SUCTION VALVE	18S	STRIPPING DROP
5S	SLOP TANK SUCTION VALVE	21S	PRIMING POT
6S	SUCTION HEADER PIPING	22S	STRIPPING PUMP
7S	VENT VALVE TO CARGO TANK 3	23S	2" PIPE SIGHT GLASS
8S	DISCHARGE HEADER PIPING	24S	BASKET STRAINER
11S	LOWER CARGO PIPELINE SUCTION VALVE	28S	CARGO PIPING SUCTION
12S	RETURN TO CARGO TANK VALVE	31S	CHECK VALVE
13S	RETURN TO CARGO CHECK VALVE	32S	PUMP WELL PRIMER VALVE
15S	HEADER DISCHARGE VALVE	33S	PUMP WELL SUCTION VALVE

NO	DESCRIPTION
37S	BLOCK VALVE
42S	SLOP TANK FILL VALVE
43S	DRIP PAN SUCTION VALVE
— ABOVE DECK PIPING	

NOTE 1: CONTAINMENT P/S  
NOTE 2: 28S & 32S CONNECT TO 8" CARGO PUMP DISCHARGE PIPING.

STARBOARD

WEST GULF MARINE - EX: N/A

REV.	DATE	BY	CHK	APP	REVISION DESCRIPTION
0	11/16/09	RB	RB	OF	APPROVED

WEST GULF MARINE - EX: N/A

**KIRBY INLAND MARINE**

**STRIPPING**

**PIPING FLOW DIAGRAM**

**KIRBY 28045**

SCALE: NONE  
PAGE: 3 OF 3  
REV. **0**