

**ANEXO A – CARACTERÍSTICAS DA UNIDADE *OFFSHORE* E  
EMBARCAÇÕES DE APOIO E DEDICA**



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## ENSCO DS-4

### GENERAL INFORMATION

**Flag:**

**Previous Name(s):** Pride Deep Ocean Clarion

**Year Built:**

**Builder:**

**Design:** SAMSUNG ABS A1 E, Drilling Unit, AMS, ACCU, DPS-3, NBLES, SH-DLA, CDS

**Classification:**

### MAIN DIMENSIONS

**Length:** 750.0ft

**Breadth:** 137.8ft

**Depth:** 62.3ft

### DRAFT AND DISPLACEMENT

**Transit Draft:** 27.9ft

**Operating Displacement:** 96,000mT @ 39.3ft draft

### MACHINERY

**Main Power:** 6 x MAN-STX 16V32/40 8000kw diesel main engines coupled with ABB 8,750KVA AC generators x 2 sets in port, center, and starboard engine rooms

### OPERATING PARAMETERS

**Water Depth:** 10,000ft

**Maximum Drilling Depth:** 40,000ft

### DRILLING EQUIPMENT

**Derrick:** Dynamic Derrick NOV, 80ft x 60ft, 200ft clear height, 2 static hook load x 2,000,000lbs.

**Drawworks:** 2 x NOV Dresco Drawworks SSGD-5750-55-82-10.5, with regenerative braking, powered each by 5 General Electric GEB22A3 AC motors

**Rotary:** 2 x NOV rotary table RST 75½" x 1,250mT capacity, only 1 hydraulic driven auxiliary well center is outfitted with a mouse hole barrier

**Top Drive:** 2 x NOV top drives, HPS-03 1000-2AC KT RD, 907mT capacity x 2 General Electric GEB 20B AC motors, incl. 115,000ft/lb. pipe handler

**Mud Pumps:** 4 x NOV triplex mud pumps N 14-P-220, belt x 2 General Electric 5GEB22D AC motors

### HOISTING EQUIPMENT

**Crane:** 3 x NOV Hydralift Knuckle Boom Cranes, Rated capacity 85mT @ 59ft & 17mT @ 137ft, 1 x NOV Hydralift Knuckle Boom Crane, Rated capacity 160.4T @ 9,840ft water depth; 86.3mT @ 9,840ft. (wet weight on hook).

### CAPACITIES

**Variable Deck Load:** 20,000mT (operating)

**Tubulars in Pipe Rack:** 1 x NOV Hydralift Tubular Catwalk Machine for tubular up to 30", 50ft long and 10mT.

**Liquid Mud:** 14,500bbbls

**Bulk Cement:** 14,800cu.ft

**Bulk Barite/Bentonite:** 14,800cuft

**Drill water:** 18,000bbbls

**Potable Water:** 8,900bbbls

**Brine Storage:** 7,800bbbls

**Base Oil Capacity:** 3,100bbbls

**Fuel Oil:** 37,700bbbls

**Sacks:** 8,000 sacks

### WELL CONTROL SYSTEMS

**BOP:** 1 x NOV Shaffer BOP stack 18¾" x 15,000psi wp Guidelineless, 6 x rams cavities / 2 x annulars, with GE Vetco SHD-H4 wellhead connector Super HD wellhead connector and ExF HAR H-4 LMRP connector

**BOP Handling:** 1 x NOV BOP Gantry Crane, rated 2 x 220mT; 1 x NOV BOP Trolley, rated 460mT.

**Control System:** 1 x NOV Shaffer Multiplex BOP Control System, complete with BOP control unit satisfying API 16D Specification and with BOP fluid recovery system

**Choke and Kill:** 3-1/16" x 15,000psi / 10,000psi downstream wp, with two manual chokes, two remote operated chokes & hydraulic valves, with glycol injection system, complete with full instrumentation

**Burner Boom:** 1 x Greenland Group ASA, Swan-neck type PETROFLAME, 32m, Hydraulic Slewing Mechanism

### HELIDECK

### ACCOMMODATION

200 pax in single, two, three or four bunk cabins



## West Polaris

For further information contact:

**Marketing - Contract**

**Tel: +4751309000**

**E-mail: [marketing@seadrill.com](mailto:marketing@seadrill.com)**

**Web: [www.seadrill.com](http://www.seadrill.com)**



(metric)

### GENERAL

Built	Q2 - 2008
Hull ID	-
Major Upgrades	-
Design	Samsung Design
Previous names	-
Flag	Panama
Classification Agency	ABS
Dimensions	228 x 42 m
Operating Draft	12.05 m
Transit draft	12,05 m
VDL - Operating	18,000 mt
VDL - Survival	15,000 mt
VDL - Transit	17,000 mt
<b>Transit speed</b>	11.5 kn
Outfitted Max WD	3050 m
Min WD	
Usable Deck Space	
Max Drilling Depth	11430
Max Combined Load	
Quarters	180
Helideck Capacity	Chinook
Helideck Certification	

### DRILLING PACKAGE

Derrick	Dobbel Derrick
Racking Capacity	13700 m
Drawworks	NOV, 4220 kW
Rotary Table	1.54 m (60.5")
Top Drive	NOV Hydralift, HPS 1000, 106350 Nm

### MUD SYSTEM

Pressure Rating	517 bar
Pumps	4 ea 1620 kW
Solids Control	VSM 300 1 X Quadruple
-	1 Dual VSM 300

### RISER SYSTEM

<b>Riser tension</b>	
<b>Riser type/ maker</b>	Schaffer 27.4 m (90 ft)
<b>Riser min ID</b>	0.476 m (18 3/4 ")
<b>Kill / Choke lines min ID</b>	0.114 m (4.5")
<b>Kill / Choke lines rating</b>	1034 bar

### CAPACITIES

Diesel	5818 cu m
Drillwater	
Potable Water	2800 cu m
Bulk Product	295 cu m
Sack Storage	7000 sx
Base Oil	
Brine	500 cu m
Liquid Mud	960 cu m
Mudpits (excl slug/mix)	14

### WELL CONTROL

Diverter	1.49 m (59"), 1M
BOP	1 ea Shaffer 0.48 m (18 3/4")
-	6 cavities, Vetco H 4 Connector
C&K Manifold	15M

### POWER

Main Engines	6 Wartsila
Auxillary Engine	N/A
Total Power	6 ea 7 MW
Main Generators	6 ea 11kv 7 MW, 6000KVA
Emergency Power	1 ea 1500kW

### STATION KEEPING

<b>DP class</b>	DP3
<b>DP control system</b>	Simrad SDPM 32
<b>Mooring lines</b>	-
<b>Mooring winches</b>	-
<b>Thrusters</b>	Rolls Royce 60 mt

### TUBULARS

Drillpipe	9144 m 5 7/8" XT57, NS-1
-	505 m 5 1/2" HWDP, 505 m 3 1/2"

### CRANES

Pedestal Cranes	4 ea Knuckle Boom
API SWL	85T
BOP Crane	2X175
Riser Gantry Crane	NA



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**Web: [www.seadrill.com](http://www.seadrill.com)**

(imperial)



### GENERAL

Built	Q2 - 2008
Hull ID	-
Major Upgrades	-
Design	Saipem 10000
Previous names	-
Flag	Panama
Classification Agency	ABS
Dimensions	748 x 138 ft
Operating Draft	47.5 ft
Transit draft	47.5 ft
VDL - Operating	20000 st
VDL - Survival	16500 st
VDL - Transit	18700 mt
<b>Transit speed</b>	11.5 kn
Outfitted Max WD	10000 ft
Min WD	
Usable Deck Space	
Max Drilling Depth	37500 ft
Max Combined Load	
Quarters	180
Helideck Capacity	Chinook
Helideck Certification	

### DRILLING PACKAGE

Derrick	Dobbel Derrick
Racking Capacity	44950 ft
Drawworks	NOV, 5750Hp
Rotary Table	60.5"
Top Drive	NOV Hydralift, HPS 1000 78450ftlb

### MUD SYSTEM

Pressure Rating	7.500 psi
Pumps	4 ea 2200 hp
Solids Control	VSM 300 1 X Quadruple
-	1 Dual VSM 300

### RISER SYSTEM

<b>Riser tension</b>	3200 kips
<b>Riser type/ maker</b>	90ft, Shaffer
<b>Riser min ID</b>	18 3/4 "
<b>Kill / Choke lines min ID</b>	4.5"
<b>Kill / Choke lines rating</b>	15000 psi

### CAPACITIES

Diesel	36600 bbls
Drillwater	17600 bbls
Potable Water	4750 bbls
Bulk Product	32460 cu ft
Sack Storage	7000 sx
Base Oil	bbls
Brine	3145 bbls
Liquid Mud	6040 bbls
Mudpits (excl slug/mix)	14

### WELL CONTROL

Diverter	59", 1M
BOP	1 ea Shaffer 18 3/4
-	6 cavities, Vetco H 4 Connector
C&K Manifold	15 Kpsi

### POWER

Main Engines	6 Wartsila
Auxillary Engine	N/A
Total Power	6 ea 9400 hp
Main Generators	6 ea 11kv, 6000KVA
Emergency Power	1 ea 2040 hp

### STATION KEEPING

<b>DP class</b>	DP3
<b>DP control system</b>	Simrad SDPM 32
<b>Mooring lines</b>	-
<b>Mooring winches</b>	-
<b>Thrusters</b>	Rolls Royce 66 st

### TUBULARS

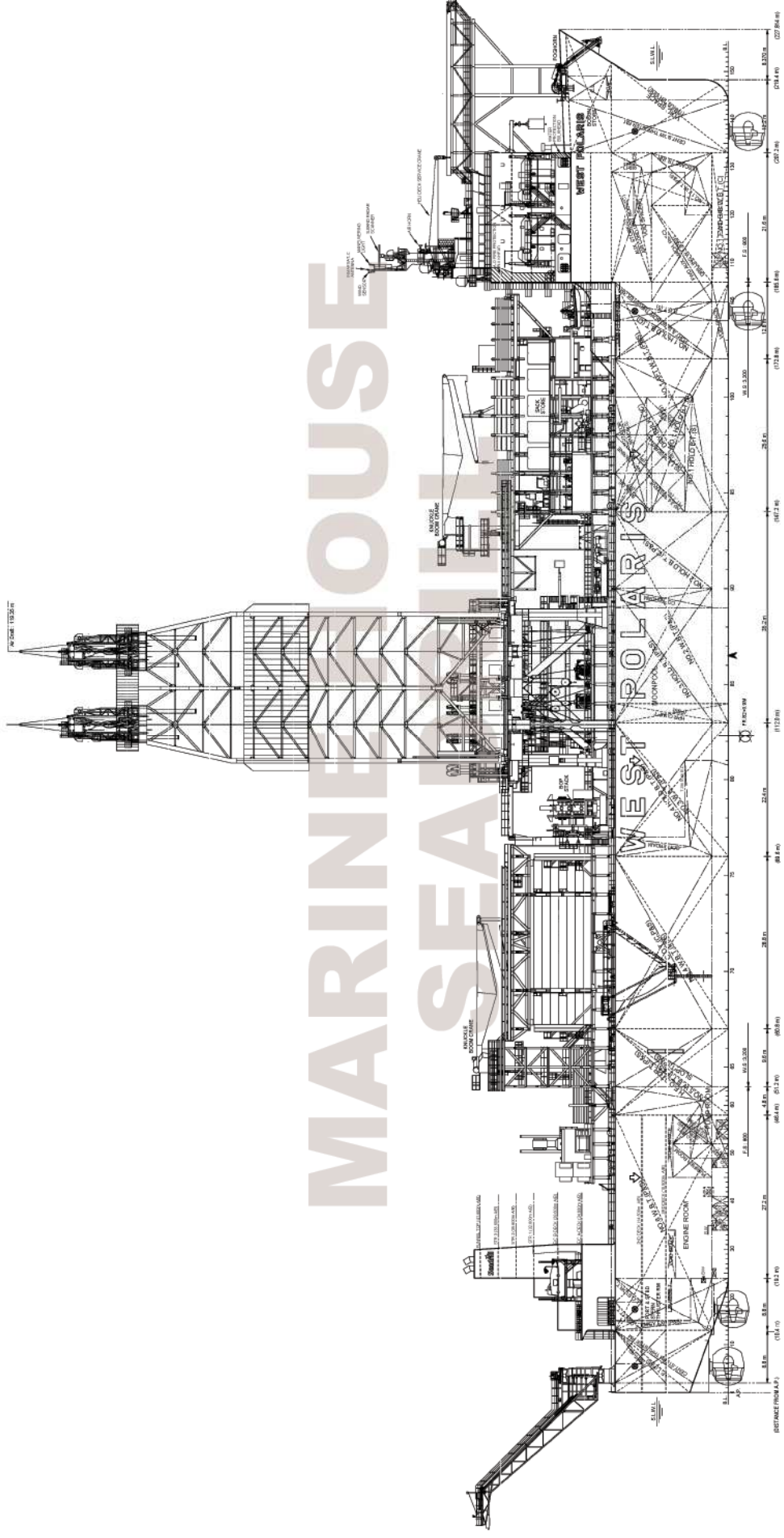
Drillpipe	30000ft 5 7/8" XT57, NS-1
-	1659ft 5 1/2" HWDP, 1659ft 3 1/2"

### CRANES

Pedestal Cranes	4 ea Knuckle Boom
API SWL	93 st
BOP Crane	2X 193 st
Riser Gantry Crane	NA

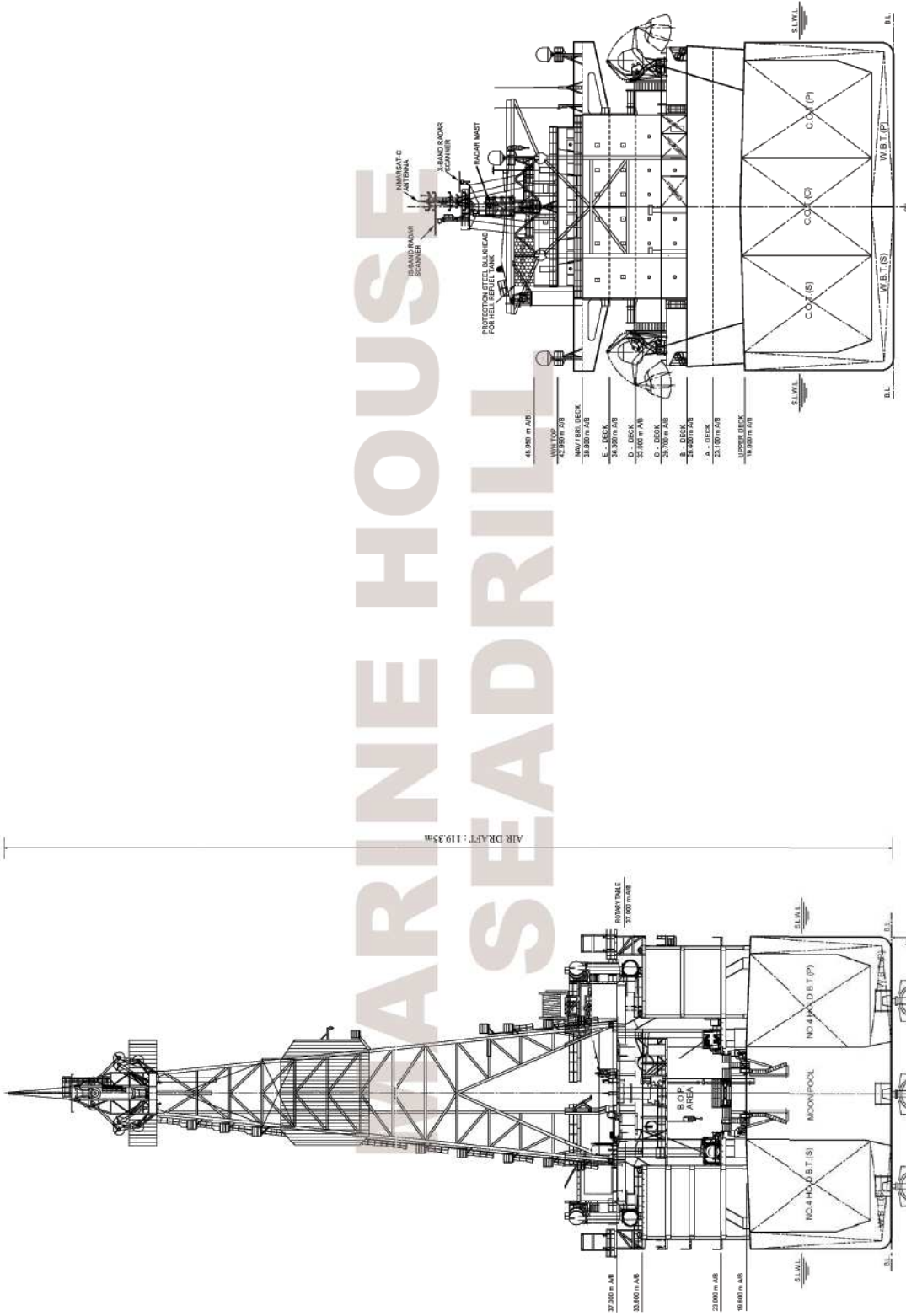


## GENERAL ARRANGEMENT



PROFILE

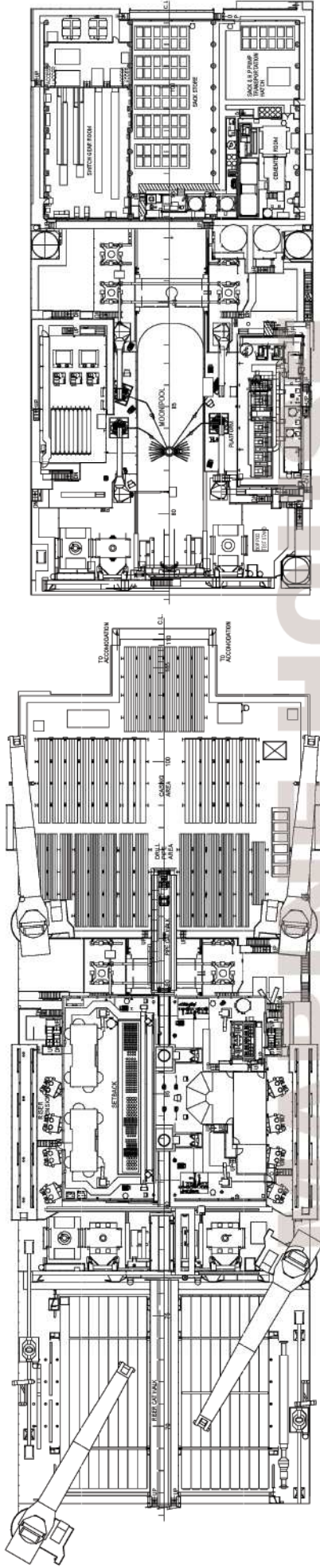
GENERAL ARRANGEMENT



TYPICAL SECTION  
(LOOKING AFT)

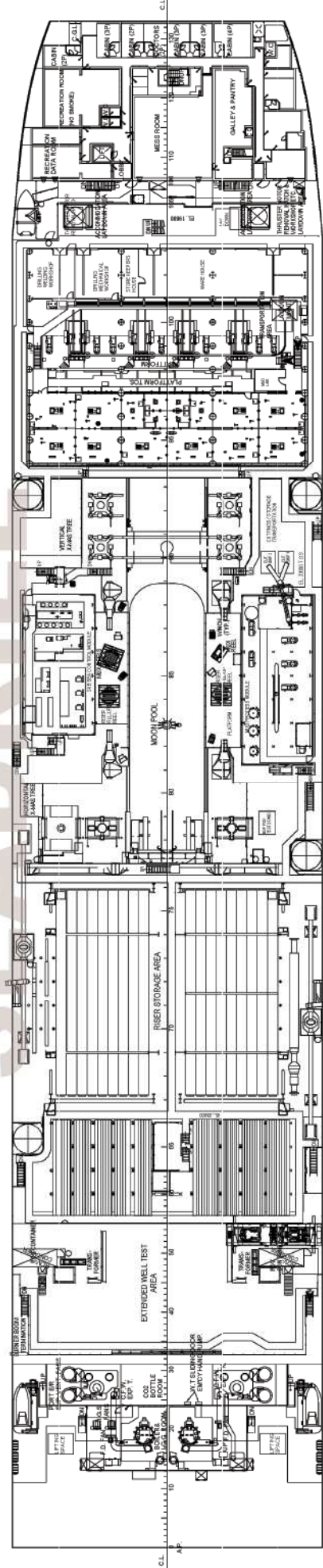
MIDSHIP SECTION  
(LOOKING AFT)

GENERAL ARRANGEMENT



36.0 M A/B PLAN

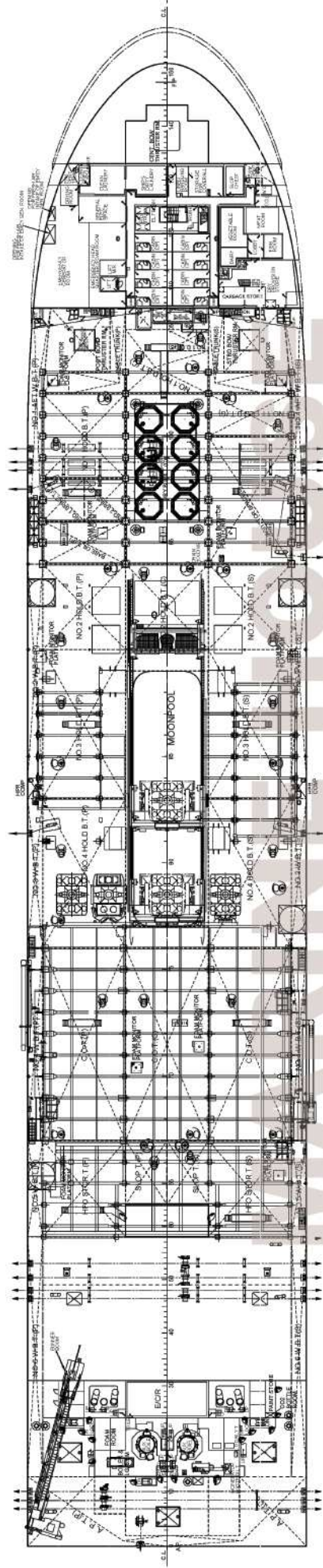
30.000 M A/B PLAN



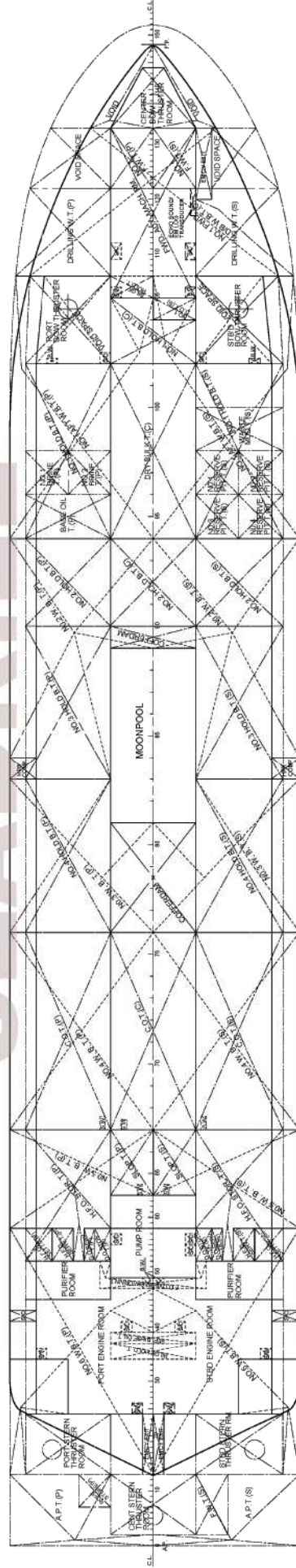
23.0 M A/B PLAN



GENERAL ARRANGEMENT

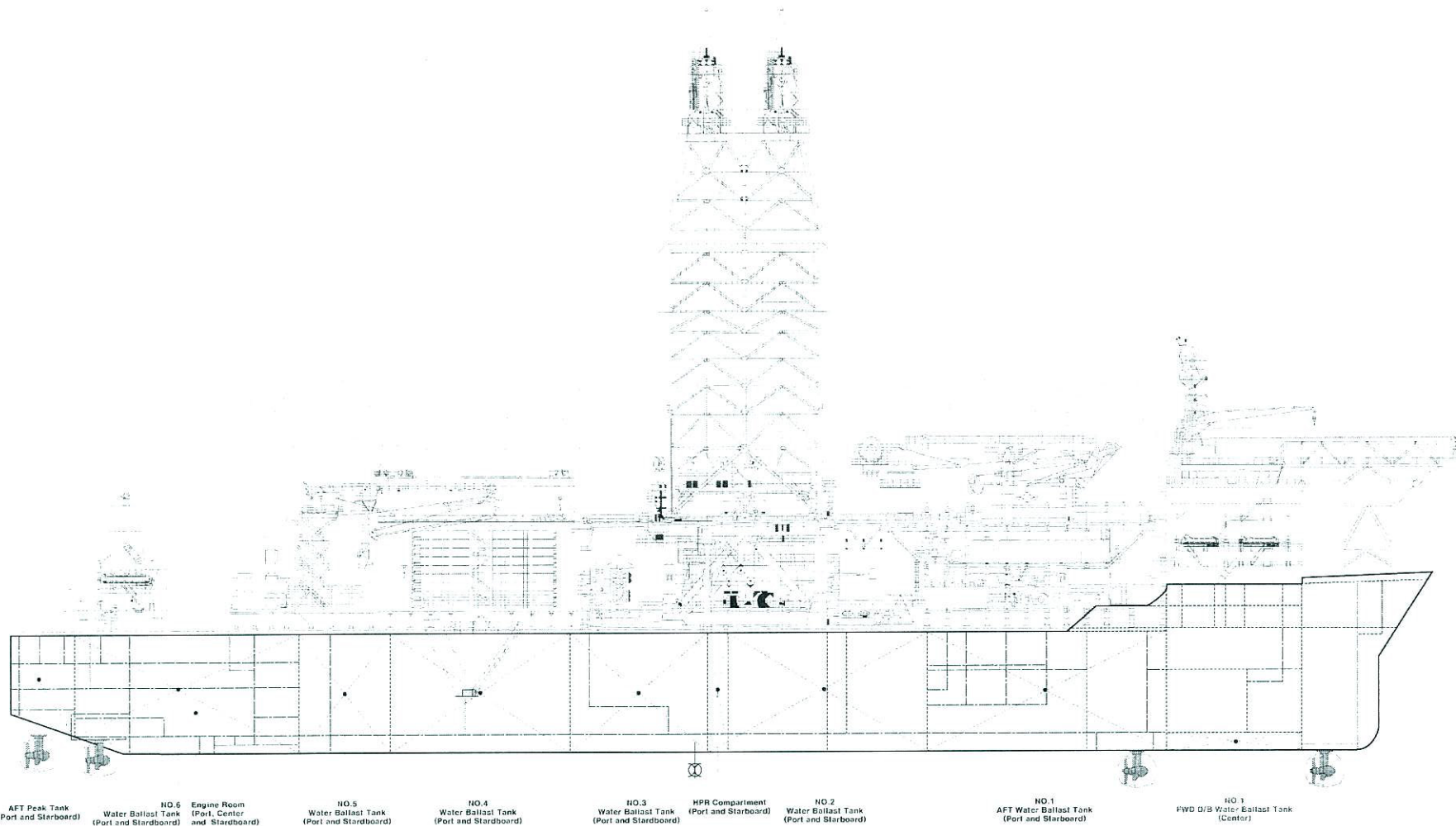


UPPER DECK PLAN



TANK TOP PLAN

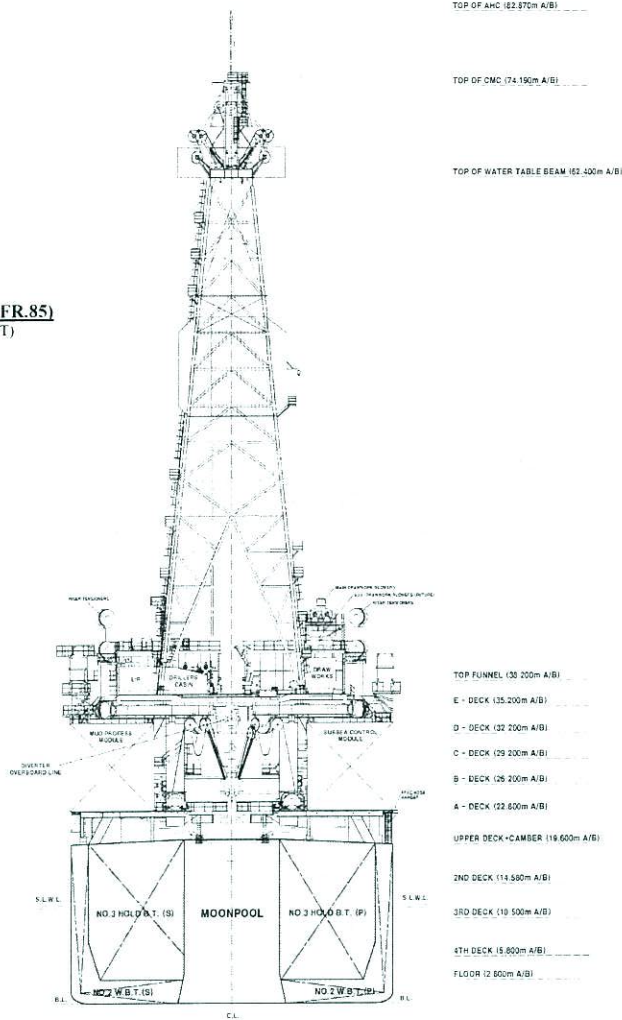
**GENERAL ARRANGEMENT**



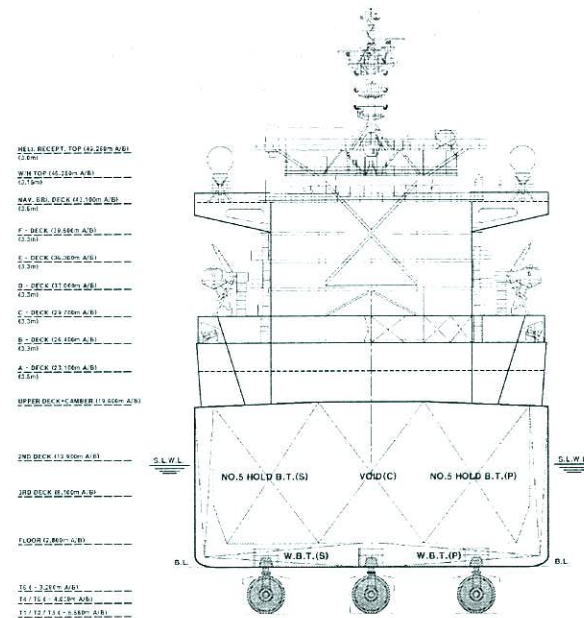
**PROFILE**

**GENERAL ARRANGEMENT**

**AFT SECTION (FR.85)**  
(LOOKING AFT)

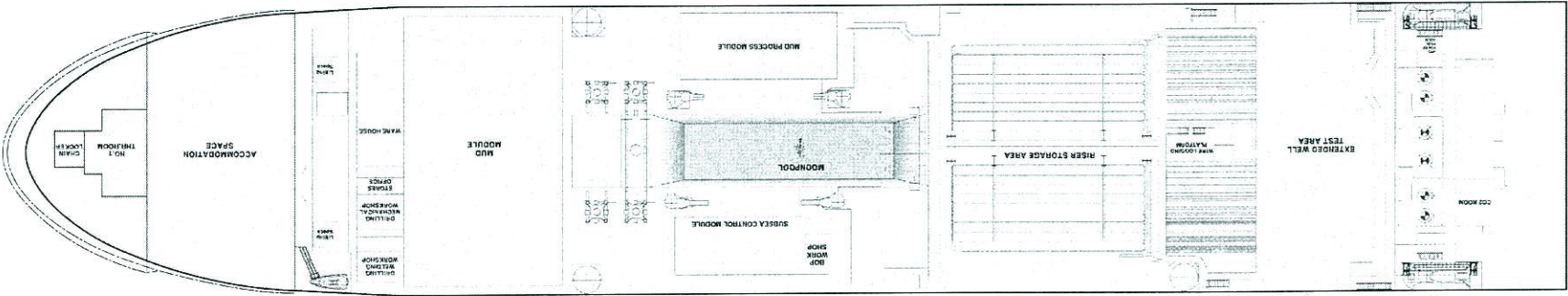


**FWD SECTION**  
(LOOKING AFT)

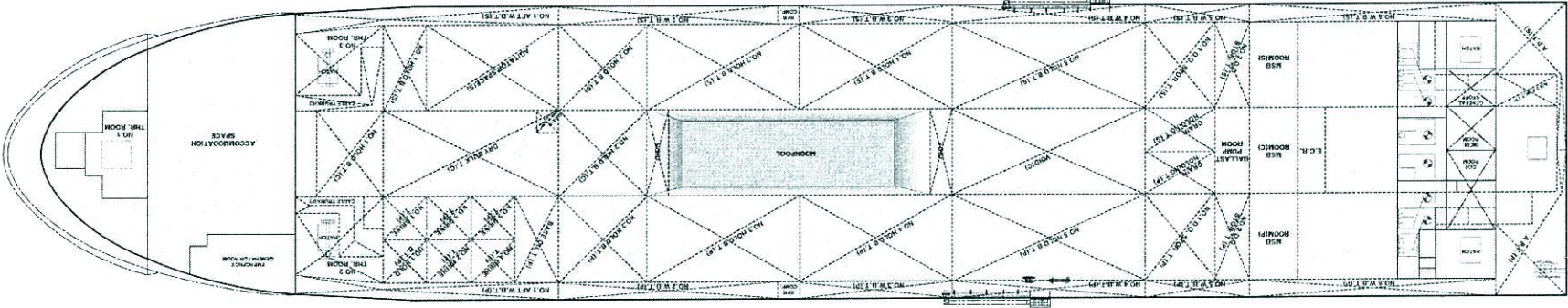




GENERAL ARRANGEMENT

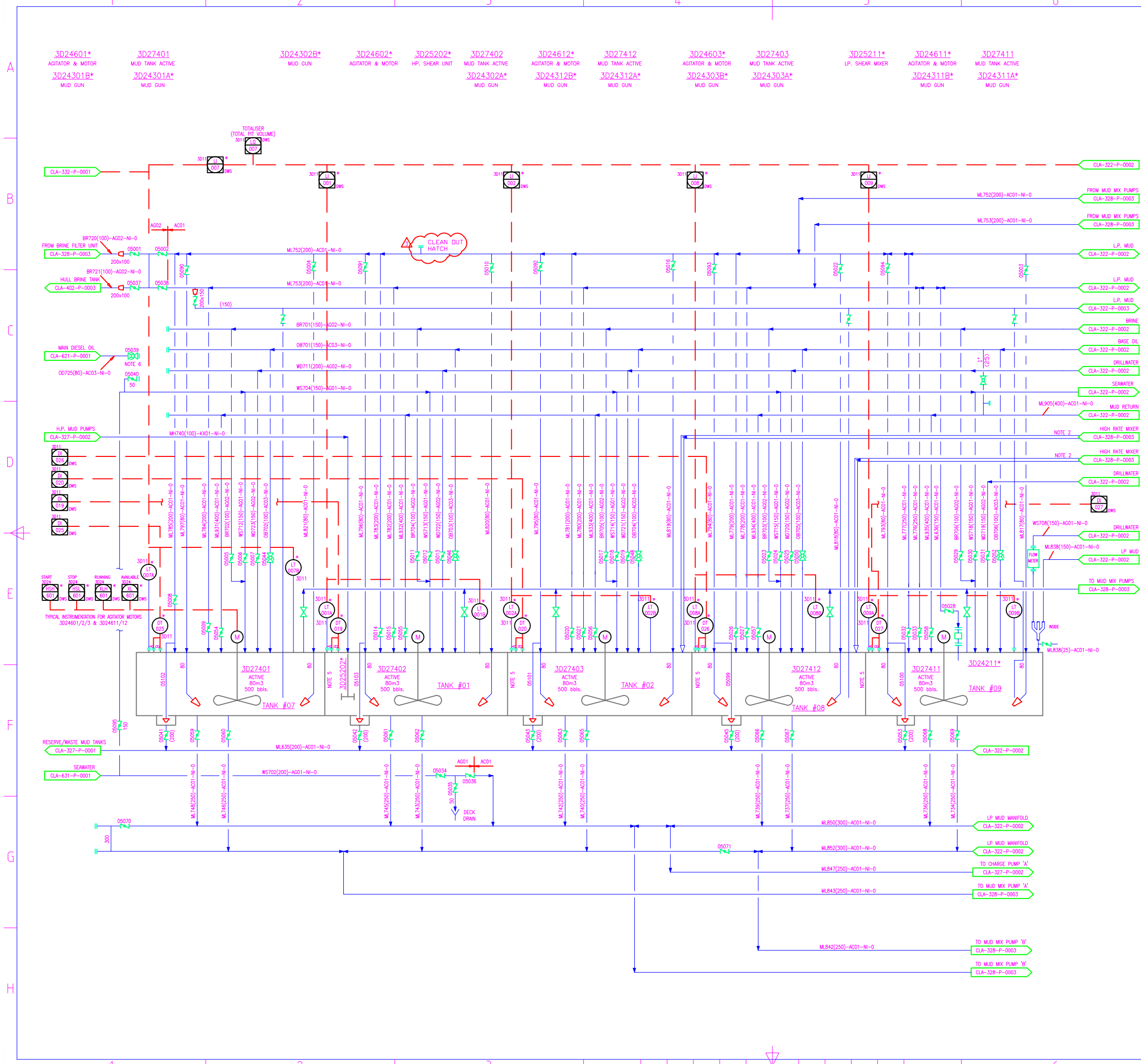


33.1 M A/B PLAN (A DECK PLAN)




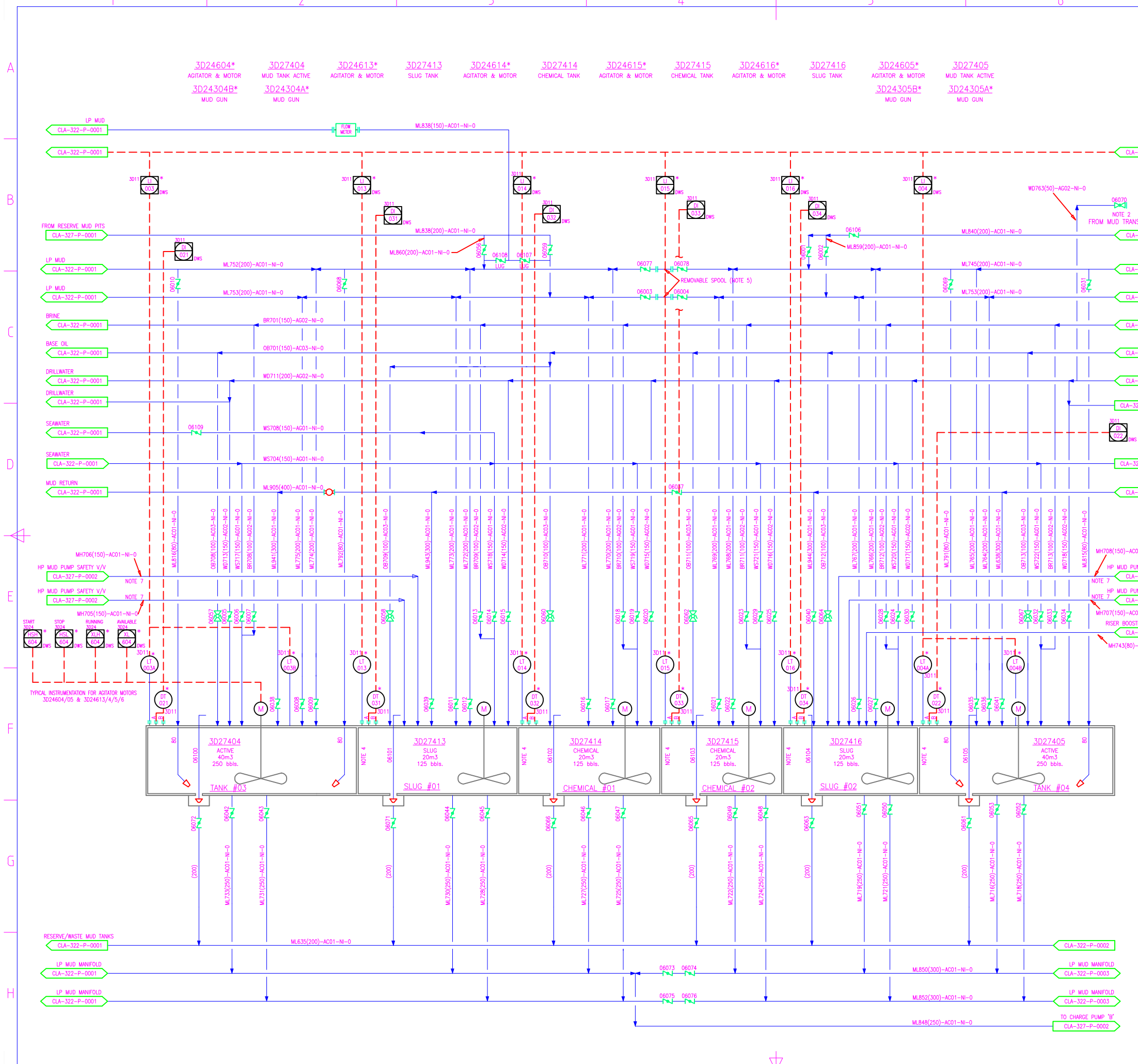
19.6 M A/B PLAN (UPPER DECK PLAN)





- NOTES:
1. ALL ITEMS MARKED THUS \* NOV SUPPLY
  2. VENDOR SUPPLY
  3. MOUNTED ON VERTICAL PIPE WITH 2" BSP.
  4. ALL PITS EQUIPPED WITH ACCESS HATCHES.
  5. POSITION OF EQUALIZATION VALVES BETWEEN PITS, NOTE 4 ON PID 7067-PB0A0-006
  6. CLA-MAF-102 Change #3 - TE IN B AND C MIXING PUMP SUCTIONS TO THE HIGH (CHARGE PUMP) SUCTION HEADER
  7. CLA-MAF-102 Change #8 - ADD SAMPLE PORT UNDER H-SIDE BLENDER
  8. CLA-MAF-102 Change #4 - C-LINE RETURN HEADER

SAMSUNG	7067-PB0A0-005	PIPING & INSTRUMENT DIAGRAM LP ACTIVE MUD SYSTEM 1	F
REF. N°	DRAWING N°	DESCRIPTION	REV N°
REFERENCE DRAWINGS			
CLEANOUT HATCH MUD RETURN	3	05/11/2011	JM
BASE OIL DILUTION LINE	2	05/11/2011	JM
"C" HEADER LINE CHANGE #4	1	05/11/2011	JM
First Issue for MAF 102	A	27.01.2011	ER
DESCRIPTION	N°	DATE	BY
REVISIONS			
<b>DEEP OCEAN CLARION</b> PIPING & INSTRUMENT DIAGRAM LP ACTIVE MUD SYSTEM 1			
			
DRAWN BY:	DL	CHECKED BY:	ER
SCALE:	NONE	DATE:	03/01/2011
DWG. NO.	CLA-322-P-0001	SHEET:	1 OF 1
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- NOTES:
1. ALL ITEMS MARKED THUS \* NOV SUPPLY
  2. HOSE CONNECTION.
  3. ALL PITS EQUIPPED WITH ACCESS HATCHES.
  4. TOP VIEW OF MUD TANKS 3D27XXX WITH POSITION OF EQUALIZING VALVES (300).
  5. DOUBLE ISOLATION WHERE CROSS CONTAMINATION COULD OCCUR BETWEEN BRINE AND MUD BY REMOVABLE SPOOLS AND BLIND FLANGES.
  6. 12" EQUALIZING VALVES, LOCATED AS COLSE AS POSSIBLE TO LOW POINT EXTENDEC SPINDLE TO TANK TOP.
  7. USED A SCHEDULE-80 PIPE, FITTING AND 300# FLANGE.

3027

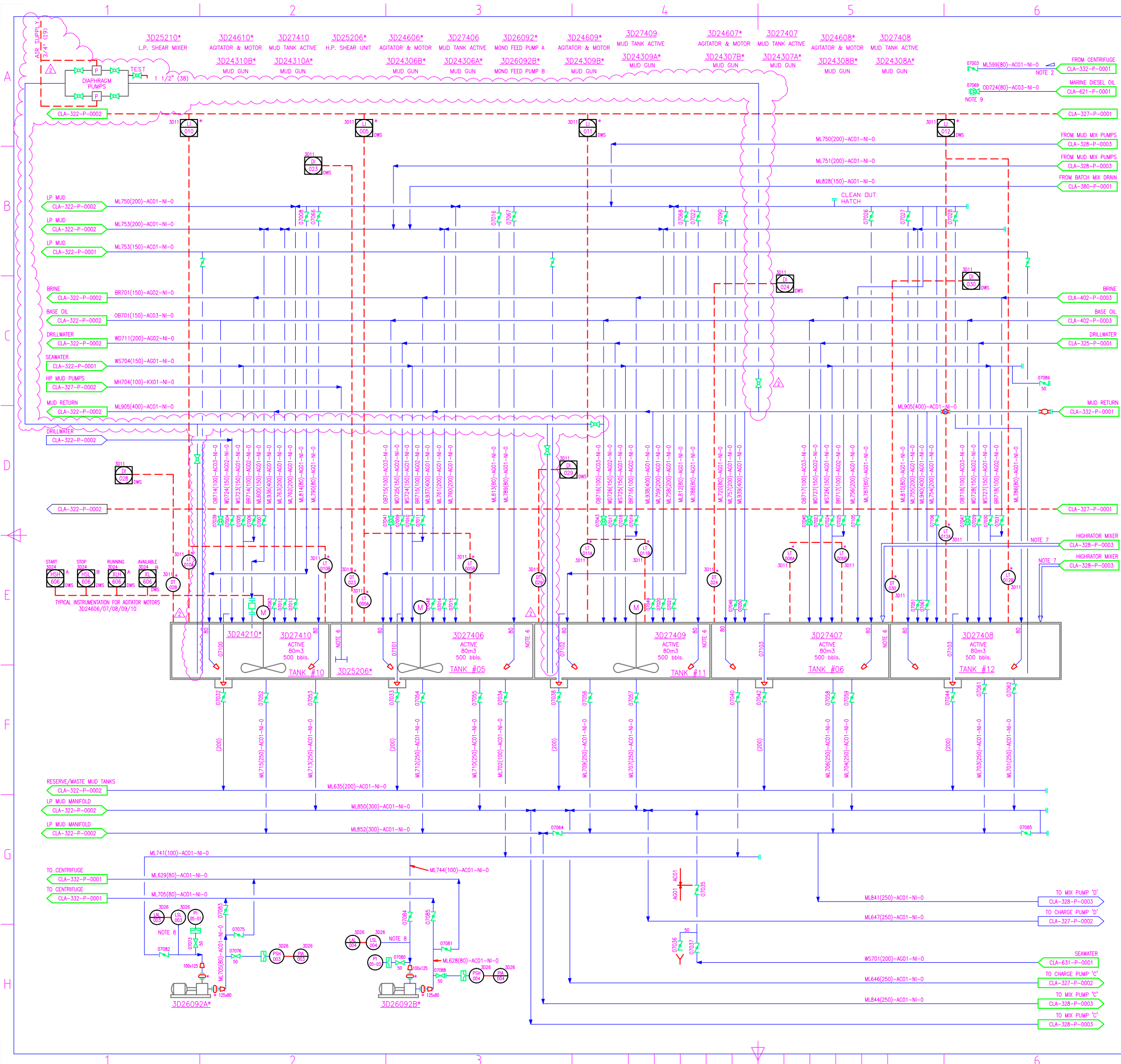
NOTE 6 (TYP)

401	06081 (300)	ML081	402
TK #07	06082 (300)	ML082	TK #01
	06083 (300)	ML083	
412	06084 (300)	ML084	403
TK #08			TK #02
	06085 (300)	ML085	
	06086 (300)	ML086	404
411	06087 (300)	ML087	TK #03
TK #09	06088 (300)	ML088	413
	06089 (300)	ML089	SLUG #1
	06090 (300)	ML090	414
410	06091 (300)	ML091	415
TK #10	06092 (300)	ML092	CHEM #2
	06093 (300)	ML093	416
	06094 (300)	ML094	SLUG #2
409	06095 (300)	ML095	405
TK #11	06096 (300)	ML096	TK #04
	06097 (300)	ML097	
408	06098 (300)	ML098	406
TK #12			TK #05
	06099 (300)	ML099	
	06100 (300)	ML100	407
	06101 (300)	ML101	

PORT ↑

STBD ↓

SAMSUNG	CLA-322-P-0002	PIPING & INSTRUMENT DIAGRAM LP ACTIVE MUD SYSTEM 2	F
REF. N°	DRAWING N°	DESCRIPTION	REV N°
REFERENCE DRAWINGS			
First Issue		0	03/01/2011 DL
REVISIONS			
DEEP OCEAN CLARION PIPING & INSTRUMENT DIAGRAM LP ACTIVE MUD SYSTEM 2			
DRAWN BY:	DL	CHECKED BY:	YN
SCALE:	NONE	DATE:	03/01/2011
DWG. NO.	CLA-322-P-0002	SHEET:	1 OF 1
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**NOTES:**

1. ALL ITEMS MARKED THIS \* NOV SUPPLY
2. LINE TO SLOPE TO MUD PITS.
3. HOSE CONNECTION TO BE LOCATED CENTRALLY AT PITS FOR DISTRIBUTING BACK TO ANY PIT THROUGH A SLIGHTLY OPENED HATCH.
4. VENDOR SUPPLY.
5. ALL PITS EQUIPPED WITH ACCESS HATCHES
6. POSITION OF EQUALIZING VALVES BETWEEN PITS, SEE NOTE 4. ON P&ID CLA-322-P-0002.
7. VENDOR SUPPLY.
8. MOUNTED ON HORIZONTAL PIPE WITH 1" BSPP
9. STRD SIDE OF TOP OF MUD TANK.
10. CLA-MAF-102 Change #3 - TE IN B AND C MIXING PUMP SUCTIONS TO THE HIGH (CHARGE PUMP) SUCTION HEADER
11. CLA-MAF-102 Change #4 - C-LINE RETURN HEADER

SAMSUNG	7067-PBBA0A0-007	PIPING & INSTRUMENT DIAGRAM LP ACTIVE MUD SYSTEM 3	F
REF. N°	DRAWING N°	DESCRIPTION	REV N°
REFERENCE DRAWINGS			
BASEOIL INJECTION TO FLOW LINE	2	05/11/2011	JM
CLEAN OUT HATCH	1	05/11/2011	JM
First Issue for MAF 102	0	27.01.2011	ER
DESCRIPTION		N°	DATE

REVISIONS			
DESCRIPTION	N°	DATE	BY
BASEOIL INJECTION TO FLOW LINE	2	05/11/2011	JM
CLEAN OUT HATCH	1	05/11/2011	JM
First Issue for MAF 102	0	27.01.2011	ER

**DEEP OCEAN CLARION**  
PIPING & INSTRUMENT DIAGRAM  
LP ACTIVE MUD SYSTEM 3

DRAWN BY:	DL	CHECKED BY:	YN	APPR'D BY:	YN
SCALE:	NONE	DATE:	03/01/2011	SHEET:	1 OF 1

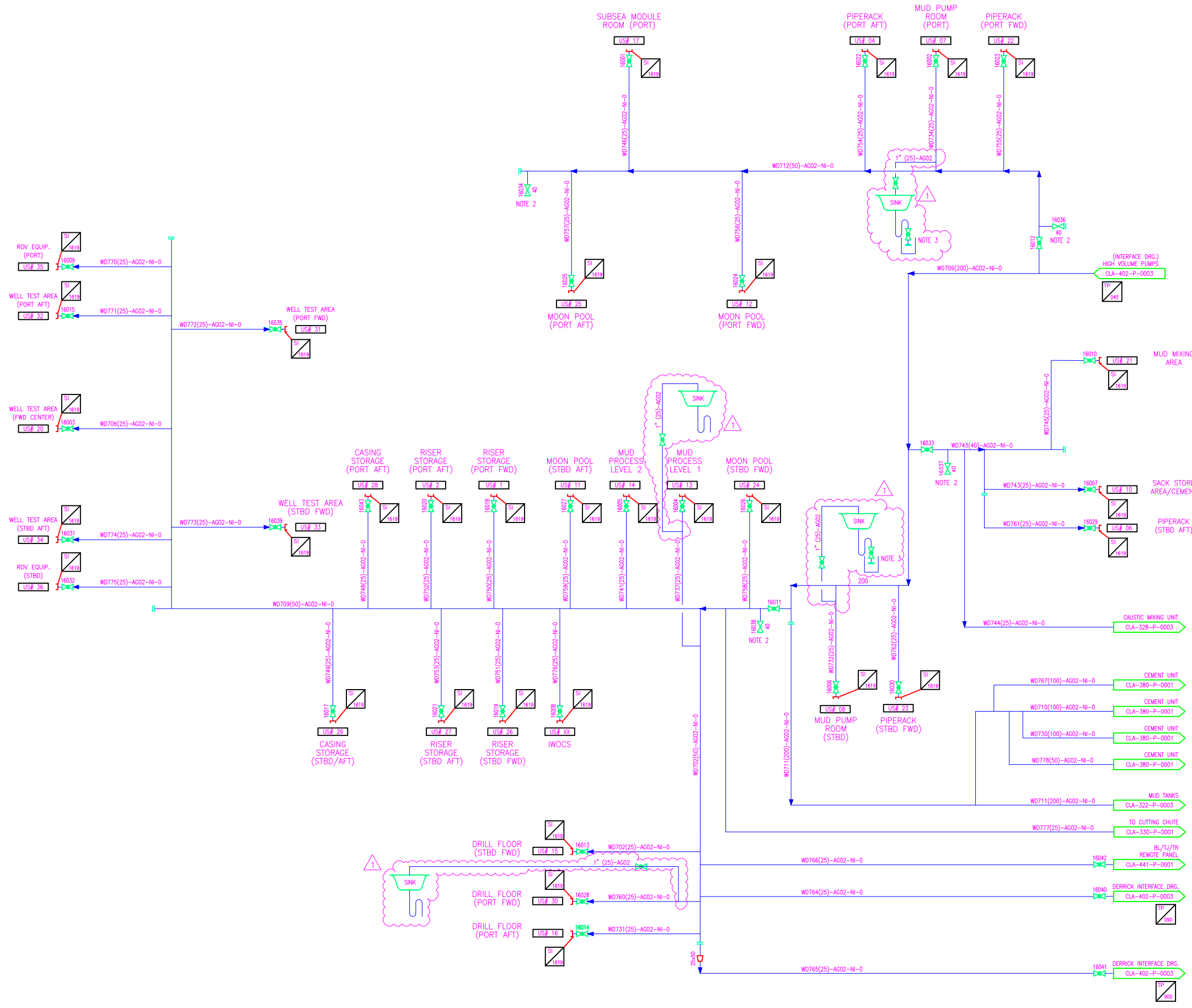
DWG. NO. CLA-322-P-0003

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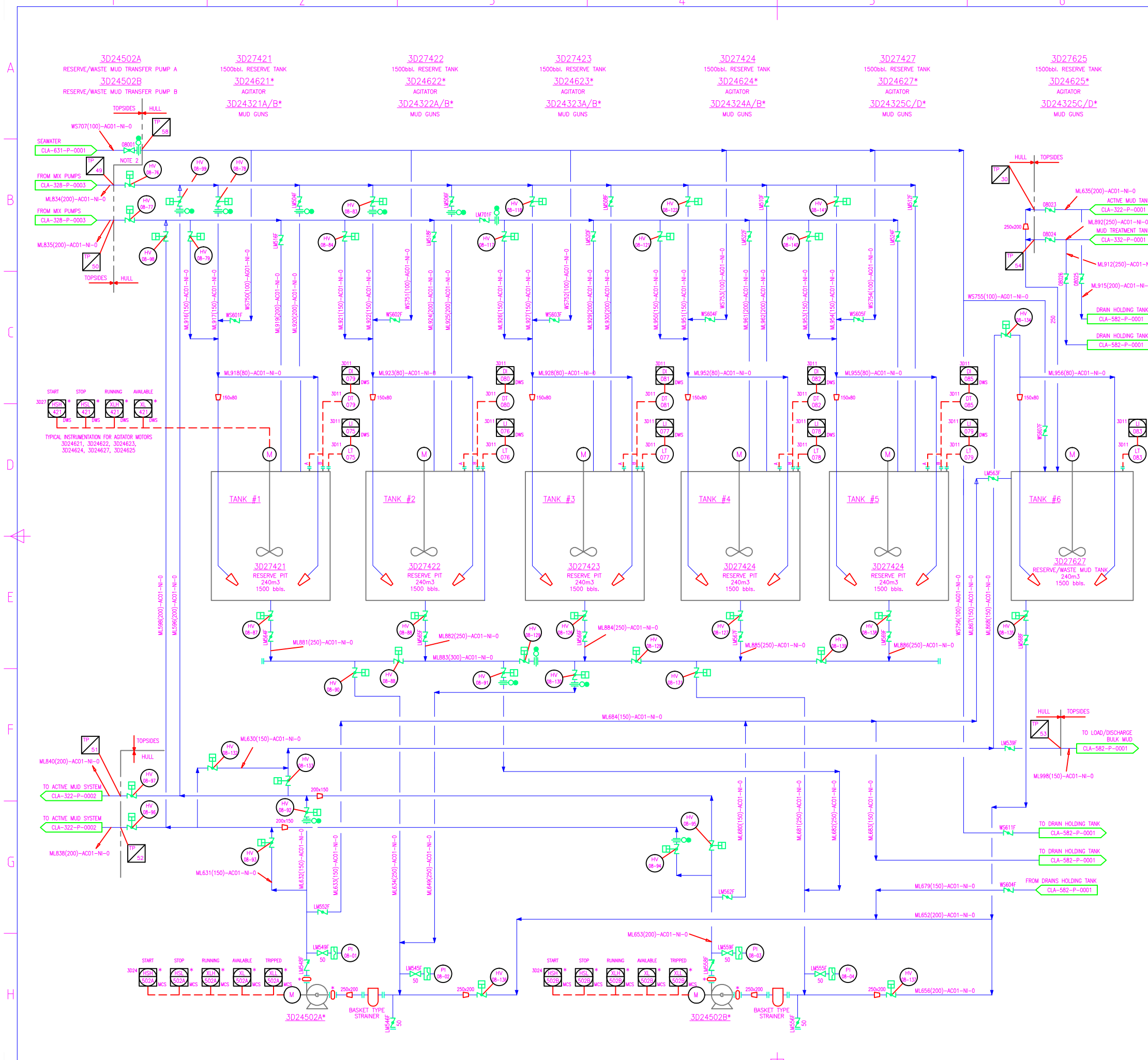
3D3513\*  
RISER TENSION  
REEL

NOTES:

- ITEMS MARKED \* NOV SUPPLY.
- ISOLATION VALVES WITH DRAIN TO ALL LOW POINTS FOR DRAIN, TO PREVENT FREEZING ON WINTER TIME.
- SINKS IN ACTIVE PIT ROOMS (PORT AND STB) DRAINS INTO BUCKET. NO DECK DRAINS CLOSE TO SINKS.

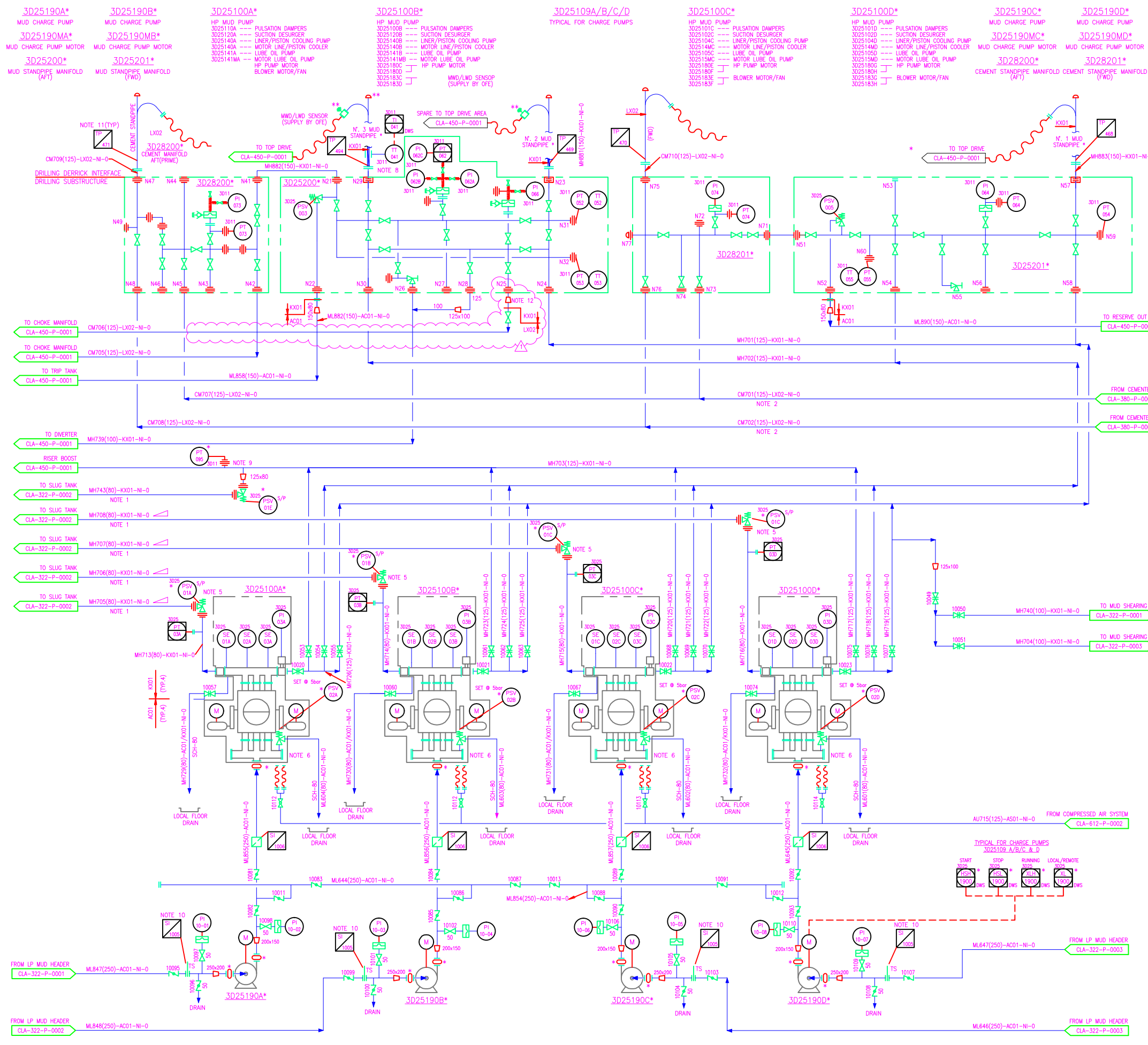


REF. N°	DRAWING N°	DESCRIPTION	REV N°
SAMSUNG	7067-PBBA040-016	PIPING & INSTRUMENT DIAGRAM - DRILL WATER SYSTEM	F
REFERENCE DRAWINGS			
		BL/LJ/TR REMOTE PANEL	CLA-441-P-0001
		DERRICK INTERFACE DRG.	CLA-402-P-0003
REVISIONS			
		ADDED SINKS AT ACTIVE PIT ROOMS (PORT& STB), SHAKER HOUSE & DRILL FLOOR	1 05/04/2011 JM
DESCRIPTION	N°	DATE	BY
<p><b>DEEP OCEAN CLARION</b> PIPING &amp; INSTRUMENT DIAGRAM DRILL WATER SYSTEM</p> <p><b>PRIDE</b></p>			
DRAWN BY:	DL	CHECKED BY:	ER
SCALE:	NONE	DATE:	26/04/2011
DWG. NO.:	CLA-325-P-0001	SHEET:	1 OF 1
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- NOTES:**
1. ALL ITEMS MARKED THIS \* NOV SUPPLY
  2. LOCATED ON TOP OF VESSEL (EL. 19600)
  3. TYPICAL REMOTE CONTROLLED LP. MUD VALVES.
  4. VALVE TAG NO. HV-08-82 & 125 ARE CONTROLLED AT "IAS".
  5. ALL LINES AFTER TIED-IN POINT BETWEEN TOPSIDE/HULL SHOWS ROUTING BY HULLSIDE.

SAMSUNG	7067-PB8A0A0-008	PIPING & INSTRUMENT DIAGRAM LP. RESERVE & MUD PITS	F
REF. N°	DRAWING N°	DESCRIPTION	REV N°
REFERENCE DRAWINGS			
First Issue	0	26/04/2011	DL
DESCRIPTION		N°	DATE
REVISIONS			
<b>DEEP OCEAN CLARION</b> <b>PIPING &amp; INSTRUMENT DIAGRAM</b> <b>CHÖKE &amp; KILL SYSTEM</b>			
DRAWN BY:	DL	CHECKED BY:	ER
SCALE:	NONE	DATE:	26/04/2011
DWG. NO.	CLA-327-P-0001	SHEET:	1 OF 1
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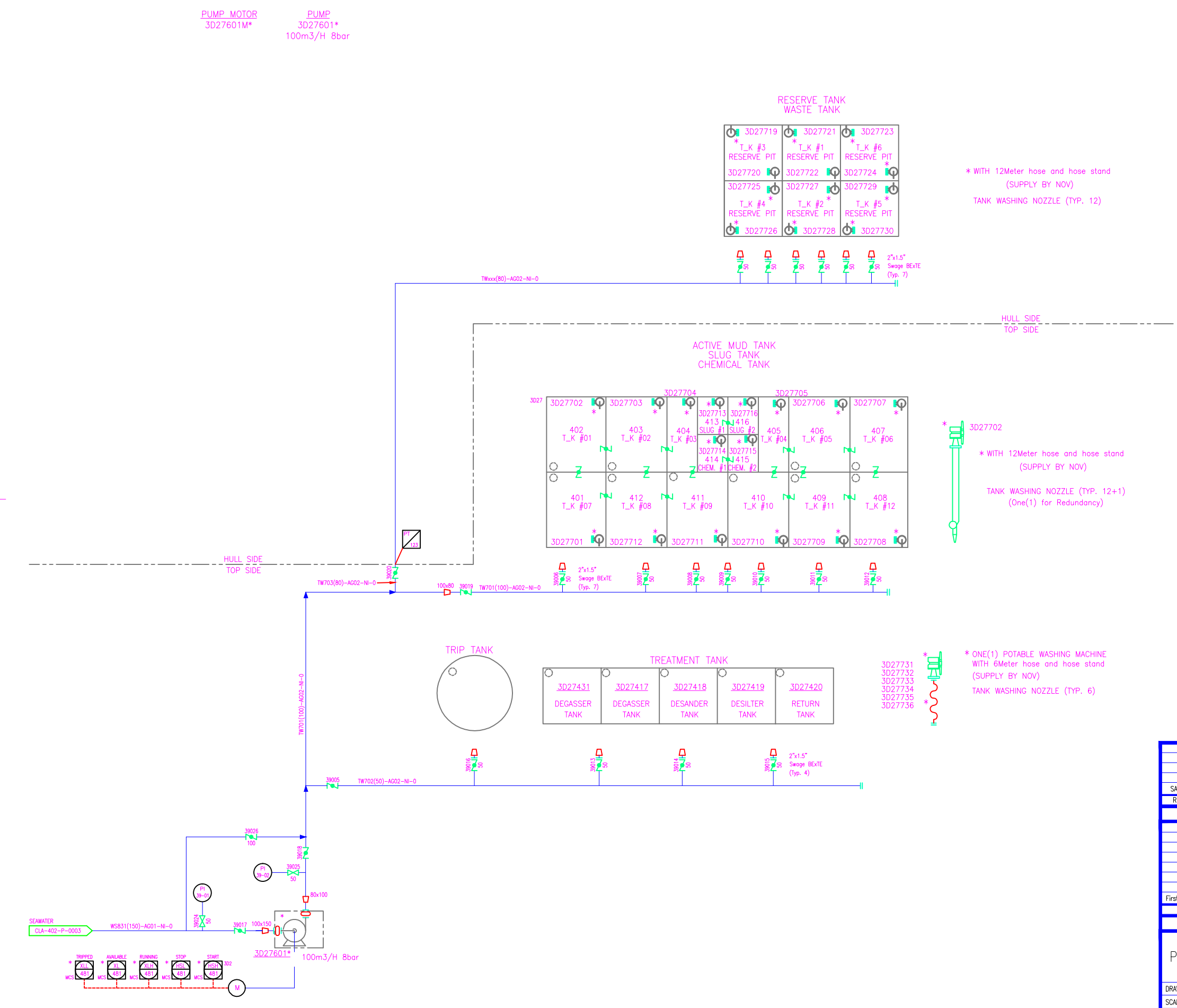
NOTES:

- RELIEF LINES TO BE ROUTED DIRECTLY TO MUD PITS WITH NO BENDS, LINE TO SLOPE CONTINUOUSLY TO MUD PIT.
- PIPE SHOWN KX01/KX02 PIPING CLASS  
 125mm DIA. IS O.D. 141.3 I.D. 103.3 API FLANGE: (10000PSI) 4 1/16"  
 100mm DIA. IS O.D. 114.3 I.D. 80.1 API FLANGE: (10000PSI) 3 1/16"  
 80mm DIA. IS O.D. 88.9 I.D. 58.5 API FLANGE: (10000PSI) 2 1/16"
- PIPE SHOWN KX01/KX02 PIPING CLASS  
 150mm DIA. IS O.D. 168.3 I.D. 108.3 API FLANGE: (15000PSI) 4 1/16"  
 125mm DIA. IS O.D. 127 I.D. 76.2 API FLANGE: (15000PSI) 3 1/16"  
 80mm DIA. IS O.D. 88.9 I.D. 48.9 API FLANGE: (15000PSI) 2 1/16"
- ALL ITEMS MARKED THUS \* NOV SUPPLY
- DELETED.
- RETSO 2000-8000 PSI HIGH PRESSURE DISCHARGE 3" TYPE "RX" FLANGED BODY RELIEF VALVE (3" ID WECC1502 CONNECTION ON INLET & OUTLET) - SUPPLIED BY NOV.
- HP PUMPS SUPPLIED FROM NOV ARE FRESH WATER COOLED.
- AUX. MANIFOLD FOR FUTURE DUAL ACTIVITIES.
- CLAMP TYPE MUD-IN TEMP. TRANSMITTER.
- WECO UNION FIG.1502 (NOV SUPPLY)
- TEMPORARY SHOULD BE REMOVED AFTER COMMISSIONING.
- SHI SUPPLY UNTIL ABOVE 6M DRILL FLOOR.
- REDUCER - 4 1/16" 7.5K TO 3 1/16" 15K.

SAMSUNG	7067-PBBA0A0-010	PIPING & INSTRUMENT DIAGRAM HP MUD PUMPS & CHARGE	F
REF. N°	DRAWING N°	DESCRIPTION	REV. N°
REFERENCE DRAWINGS			
HP CEMENT LINE TO CHOKE AND KILL MANIFOLD	1	01/04/2011	JM
FIRST ISSUE	0	29/03/2011	E-R
REVISIONS			
<b>DEEP OCEAN CLARION</b> PIPING & INSTRUMENT DIAGRAM HP MUD PUMP & CHARGE PUMP			
DRAWN BY: DL	CHECKED BY: E-R	APPR'D BY: YN	
SCALE: NONE	DATE: 03/01/2011	SHEET: 1 OF 1	
DWG. NO. CLA-327-P-0002			
5847 SAN FELIPE #3300, HOUSTON, TX 77057 WWW.PRIDEINTERNATIONAL.COM			
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- NOTES:
1. ALL ITEMS MARKED ARE NOV SUPPLY.
  2. VENT LEVEL ABOVE TOP OF MUD AND SHAKER PITS.
  3. MUD CONTENT IN WASHING MEDIA IS REMOVED USING DUMP LINES TO RESERVE/ WASTE MUD TANKS.
  4. TANK WASHING SYSTEM TO BE FLOODED TO BOTTOM OF PIT AND TO BE CLEANED PRIOR TO STARTING PUMP.



PUMP MOTOR  
3D27601M\*

PUMP  
3D27601\*  
100m3/H 8bar

RESERVE TANK  
WASTE TANK

3D27719 * T_K #3 RESERVE PIT	3D27721 * T_K #1 RESERVE PIT	3D27723 * T_K #6 RESERVE PIT
3D27720 * T_K #4 RESERVE PIT	3D27722 * T_K #2 RESERVE PIT	3D27724 * T_K #5 RESERVE PIT
3D27725 * T_K #4 RESERVE PIT	3D27727 * T_K #2 RESERVE PIT	3D27729 * T_K #5 RESERVE PIT
3D27726 * T_K #4 RESERVE PIT	3D27728 * T_K #2 RESERVE PIT	3D27730 * T_K #5 RESERVE PIT

\* WITH 12Meter hose and hose stand  
(SUPPLY BY NOV)  
TANK WASHING NOZZLE (TYP. 12)

ACTIVE MUD TANK  
SLUG TANK  
CHEMICAL TANK

3D27702 * 402 T_K #01	3D27703 * 403 T_K #02	3D27704 * 404 T_K #03	3D27713 * 413 SLUG #1	3D27716 * 416 SLUG #2	3D27705 * 405 T_K #04	3D27706 * 406 T_K #05	3D27707 * 407 T_K #06
3D27701 * 401 T_K #07	3D27712 * 412 T_K #08	3D27711 * 411 T_K #09	3D27714 * 414 CHEM. #1	3D27715 * 415 CHEM. #2	3D27710 * 410 T_K #10	3D27709 * 409 T_K #11	3D27708 * 408 T_K #12

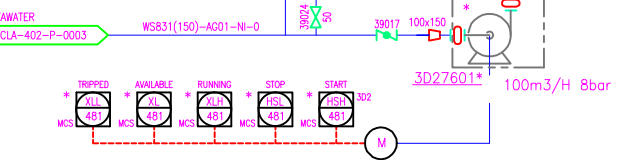
\* WITH 12Meter hose and hose stand  
(SUPPLY BY NOV)  
TANK WASHING NOZZLE (TYP. 12+1)  
(One(1) for Redundancy)

TRIP TANK

TREATMENT TANK

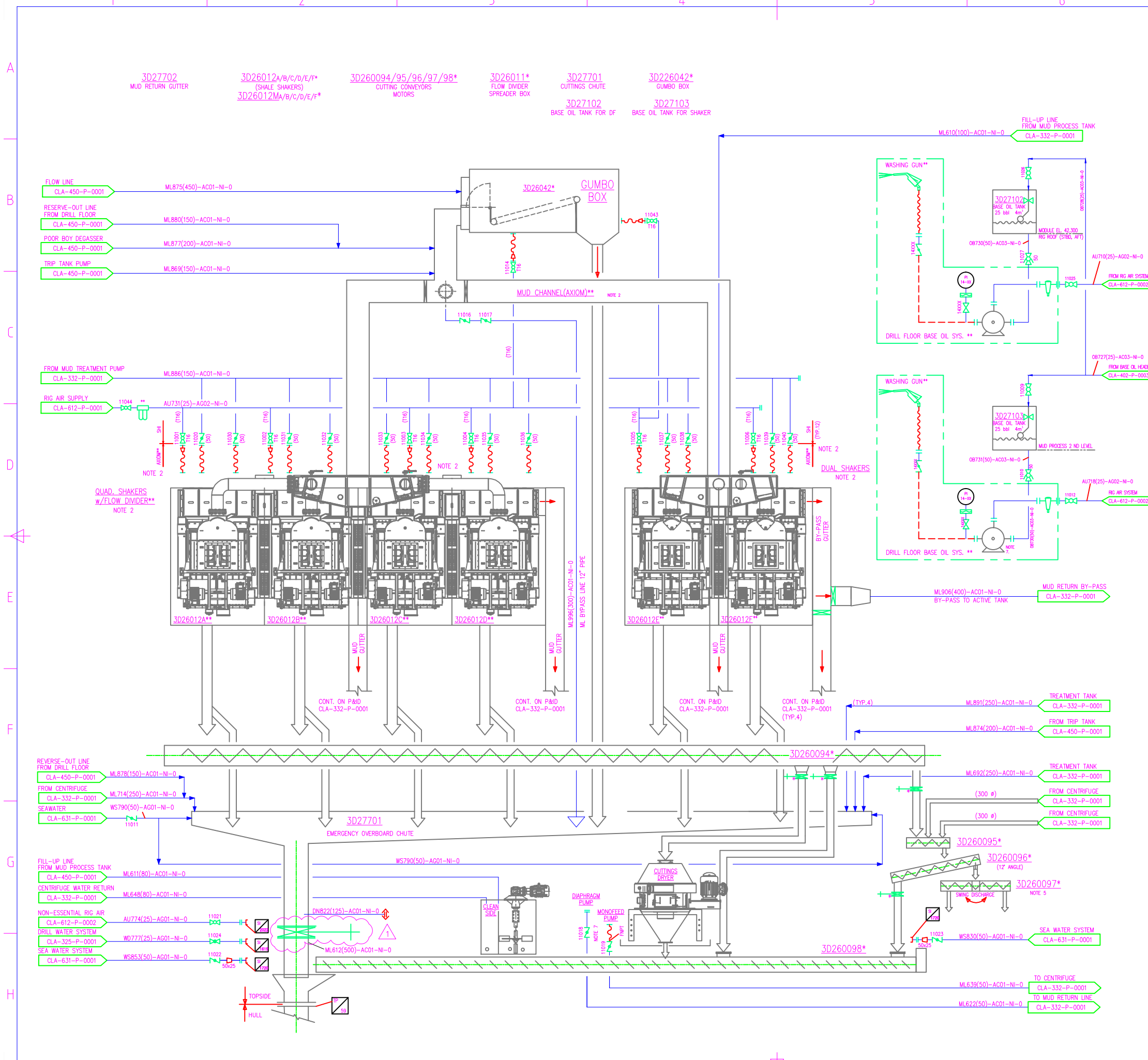
3D27431 DEGASSER TANK	3D27417 DEGASSER TANK	3D27418 DESANDER TANK	3D27419 DESILTER TANK	3D27420 RETURN TANK
-----------------------------	-----------------------------	-----------------------------	-----------------------------	---------------------------

\* ONE(1) POTABLE WASHING MACHINE  
WITH 6Meter hose and hose stand  
(SUPPLY BY NOV)  
TANK WASHING NOZZLE (TYP. 6)



SAMSUNG	7067-PBBA0A0-039	PIPING & INSTRUMENT DIAGRAM TANK CLEANING SYSTEM	F
REF. N°	DRAWING N°	DESCRIPTION	REV N°
REFERENCE DRAWINGS			
First Issue	0	26/04/2011	DL
DESCRIPTION		N°	DATE BY
REVISIONS			
DEEP OCEAN CLARION PIPING & INSTRUMENT DIAGRAM TANK WASHING SYSTEM		<b>PRIDE</b>	
DRAWN BY: DL	CHECKED BY: ER	APPR'D BY:	
SCALE: NONE	DATE: 26/04/2011	SHEET: 1 OF 1	5847 SAN FELIPE #3300, HOUSTON, TX 77057
DWG. NO. CLA-327-P-0003		THIS DOCUMENT IS THE EXCLUSIVE PROPERTY OF PRIDE INTERNATIONAL AND CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION. IT SHALL NOT BE REPRODUCED, DISTRIBUTED, DISCLOSED, OR USED IN WHOLE OR IN PART, BY ANY UNAUTHORIZED PARTY WITHOUT THE EXPRESSED PRIOR WRITTEN CONSENT OF PRIDE INTERNATIONAL.	





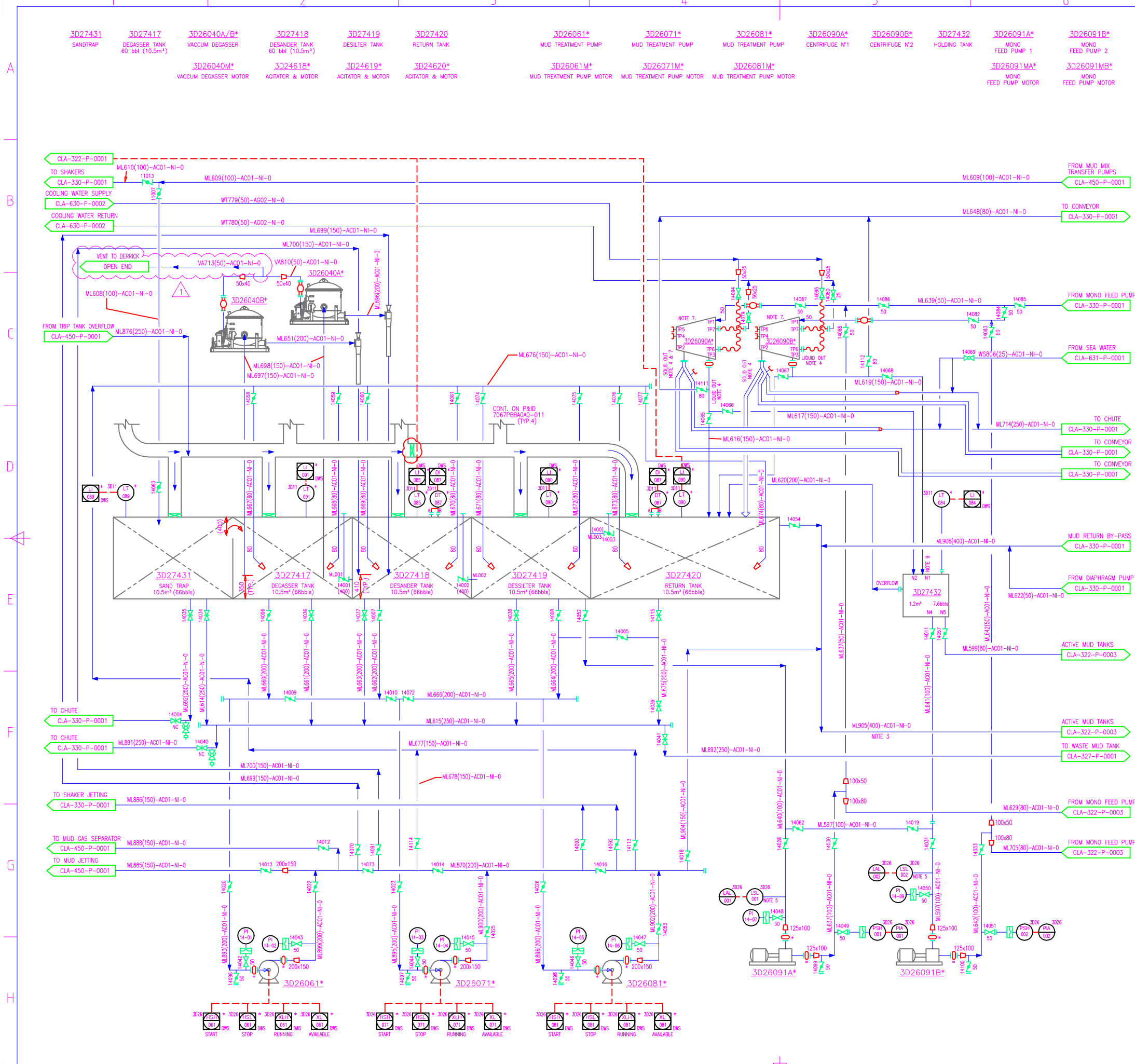
- NOTES:**
1. ALL ITEMS MARKED THUS \* NOV SUPPLY.
  2. ALL ITEMS MARKED THUS \*\* CLIENT SUPPLY.
  3. DIVERTER SYSTEM AT BRANCH TO EMERGENCY CAISSON. FIXED TO FLOW TO SCREW CONVEYOR.
  4. SCREW CONVEYOR MOUNTED ON PEDESTAL WITH HYDRAULIC OPERATED SWINGING DISCHARGE FOR SMOOTH LOADING OF SKIPPER. REF. 7067-PB80A0-025.
  5. 1/2" AIRLINE (max. 80-90PSI) TO LOCK DOWN SHAKER SCREENS, WITH SEPARATE VALVES CONNECTED TO ALL SHAKERS. NOZZLE SIZE: 1/4" NPT.
  6. ITEM SHOULD BE SUPPLIED BY MI-SWACO

REF. N°	DRAWING N°	DESCRIPTION	REV N°	
SAMSUNG	7067-PB80A0-011	PIPING & INSTRUMENT DIAGRAM SOLID CONTROL MUD PROCESS	F	
REFERENCE DRAWINGS				
ADDED GATE VALVE AT CHUTE DISCHARGE, REMOVED SPECTACLE BLDS.				
First Issue				
REVISIONS				
NO.	DESCRIPTION	N°	DATE	BY
1	ADDED GATE VALVE AT CHUTE DISCHARGE, REMOVED SPECTACLE BLDS.		04/25/2011	JM
0			24.01.2011	ER

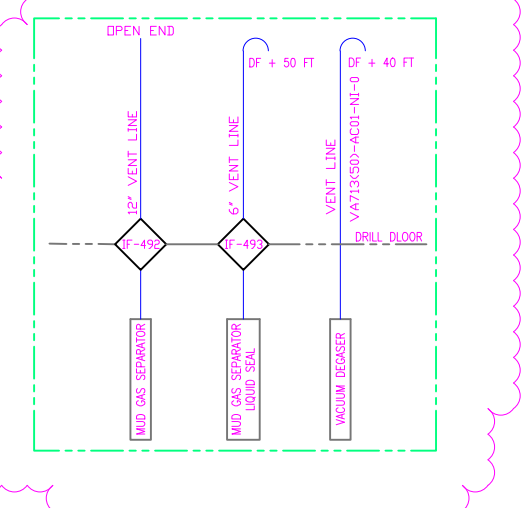
<b>DEEP OCEAN CLARION</b>		<b>PRIDE</b>			
PIPING & INSTRUMENT DIAGRAM SOLID CONTROL MUD PROCESS					
DRAWN BY:	DL	CHECKED BY:	ER	APPR'D BY:	
SCALE:	NONE	DATE:	22/04/2011	SHEET:	1 OF 1
DWG. NO.	CLA-330-P-0001		1		

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NOTES:

1. DEGASSER SUCTION TO BE LOCATED MINIMUM 5 INCHES ABOVE TREATMENT TANK.
2. ALL ITEMS SHOWN THUS \* NOV SUPPLY.
3. LINE TO SLOPE TO MUD PITS. (MAXIMUM SLOPE AVAILABLE IN EXCESS OF 5%).
4. TRUNK SIZE OF SOLIDS ARE 740x325x10T AND LIQUIDS ARE 418x172x4T.
5. MOUNTING ON HORIZONTAL PIPE WITH 1" BSPP.
7. TP7, TP6 FOR HEAT EXCHANGER AND TP4? TP5 FOR CASING FLUSHING TO BE CONNECTED BY FLEXIBLE HOSES.
8. TYPICAL FOR AGITATOR & MOTOR 3D27419 & 3D27420
9. THE ONE INSPECTION HATCH SHALL BE REQUIRED FOR BOTH SIDE TWO TANKS.
10. DETAIL OF DEGASSER



SAMSUNG	7067-PBA0A0-014	PIPING & INSTRUMENT DIAGRAM MUD TREATMENT/RETURN	F
REF. N°	DRAWING N°	DESCRIPTION	REV N°

REFERENCE DRAWINGS			
DESCRIPTION	N°	DATE	BY
ADDED DETAIL OF DEGASSER VENTING & REVISED VA-713(50)-AC01-NI-0	1	25.04.2011	JM
ADD 2 BALL VALVES ON LINES ML692 AND ML891 FOR SUCTION WITH VACUUM SYSTEM	0	19.01.2011	E-R

REVISIONS			
DESCRIPTION	N°	DATE	BY
ADDED DETAIL OF DEGASSER VENTING & REVISED VA-713(50)-AC01-NI-0	1	25.04.2011	JM
ADD 2 BALL VALVES ON LINES ML692 AND ML891 FOR SUCTION WITH VACUUM SYSTEM	0	19.01.2011	E-R

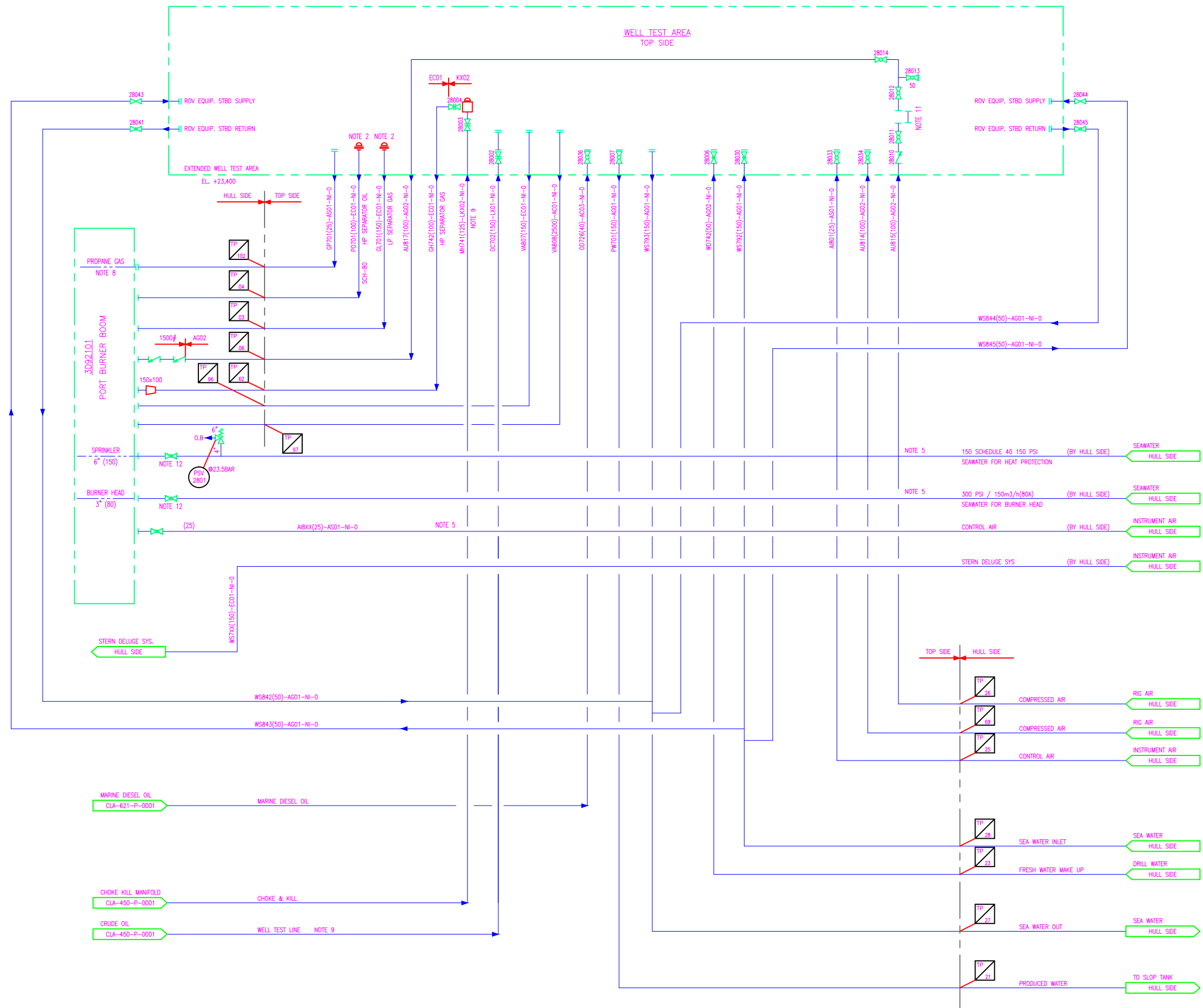
  

<b>DEEP OCEAN CLARION</b>					
<b>PIPING &amp; INSTRUMENT DIAGRAM</b>					
<b>MUD TREATMENT / RETURN</b>					
DRAWN BY:	DL	CHECKED BY:	ER	APPR'D BY:	
SCALE:	NONE	DATE:	16/11/2010	SHEET:	1 OF 1
DWG. NO.	CLA-332-P-0001				

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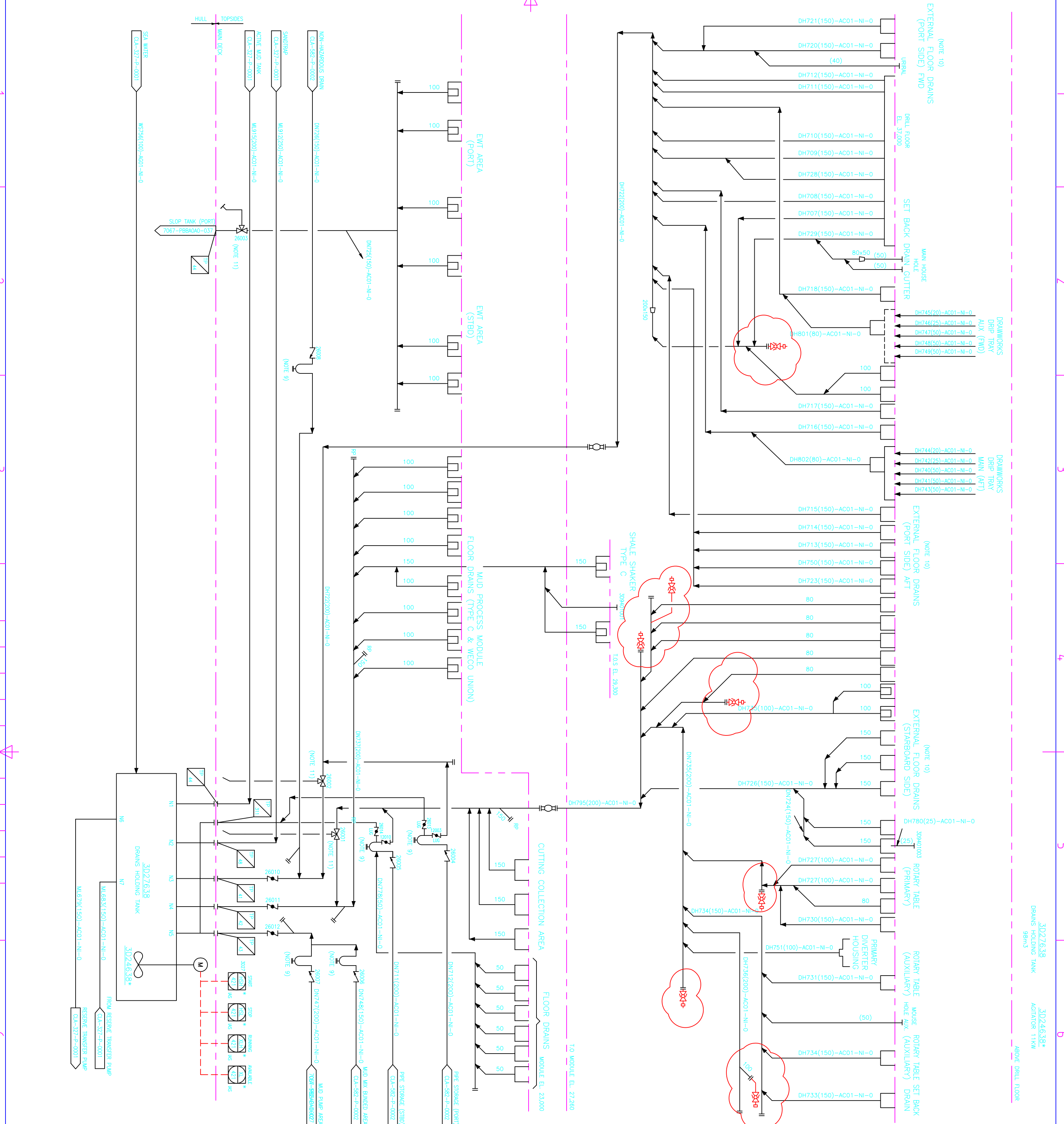
3092101  
BURNER BOOM  
(PORT)

WELL TEST AREA  
TOP SIDE

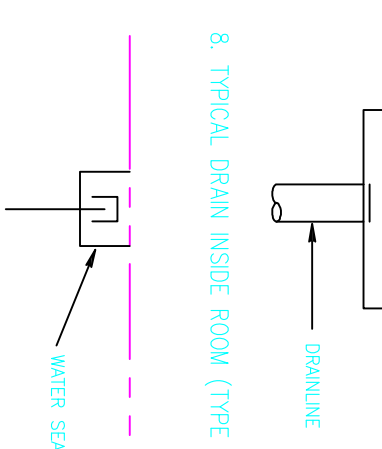


- NOTES:
1. LINE TO TERMINATE WITH A WECO FIG.1502 MALE CONNECTOR AND BLIND.
  2. LINE TO TERMINATE AT WELL TEST AREA WITH A WECO FIG. 400 MALE CONNECTOR AND BLIND.
  3. FOR TIE-IN SCHEDULE NUMBER SEE DRG. GF112806-1200-P-0137.
  4. DELETED.
  5. STAPLED LINES SHOWS ROUTING BY HULLSIDE.
  6. ROUTING BY SHL.
  7. DELETED.
  8. PROPANE SUPPLY NOZZLES ARE JUST PROVIDED IN BURNER BOOM PACKAGE BY VENDOR AND CONNECTED BY CLIENT.
  9. PIPE SHOWN KX02 PIPING CLASS  
100mm DIA. IS O.D 114.3 I.D 80.1, API FLANGE: (10000PSI) 3 1/8"  
PIPE SHOWN LX01 PIPING CLASS  
150mm DIA. IS O.D 168.3 I.D 108.3, API FLANGE: (15000PSI) 4 1/16"  
125mm DIA. IS O.D 127 I.D 76.2, API FLANGE: (15000PSI) 3 1/16"
  10. ALL ITEM MARKED THUS \* NOV.
  11. REMOVAL SPOOL TO BE PROVID SEPARATION COMPRESSURE AIR SUPPLY BETWEEN TO SIZE & BURNER BOOMS.
  12. GLOBE VALVE ANSI 300#.

REF. N°	DRAWING N°	DESCRIPTION	REV N°
SAMSUNG	7067-PB80A0-028	PIPING & INSTRUMENT DIAGRAM - EXTENDED WELL TEST SYSTEM	F
REFERENCE DRAWINGS			
REVISIONS			
DESCRIPTION	N°	DATE	BY
DEEP OCEAN CLARION PIPING & INSTRUMENT DIAGRAM EXTENDED WELL TEST SYSTEM			
DRAWN BY: DL	CHECKED BY: ER		
SCALE: NONE	DATE: 03/01/2011	SHEET: 1 OF 1	5847 SAN FELPE #3300, HOUSTON, TX 77057 WWW.PRIDEINTERNATIONAL.COM
DWG. NO. CLA-372-P-0001		<small>THIS DOCUMENT IS THE EXCLUSIVE PROPERTY OF PRIDE INTERNATIONAL AND CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION. IT SHALL NOT BE REPRODUCED, DISTRIBUTED, DISCLOSED, OR USED, IN WHOLE OR IN PART, BY ANY UNAUTHORIZED PARTY WITHOUT THE EXPRESSED PRIOR WRITTEN CONSENT OF PRIDE INTERNATIONAL.</small>	



- NOTES:
- HEADERS CAN BE SITUATED UNDER ANY SUITABLE DECK LEVEL TO SUIT LAYOUT
  - DIRTY DRAIN LINES CONTAINING MUD TO HAVE A FALL OF 1:50 WHERE POSSIBLE
  - CLEAN DRAIN LINES TO HAVE A FALL OF 1:50 WHERE POSSIBLE
  - POCKETS ARE NOT ACCEPTABLE IN ANY DRAIN LINES
  - RODDING POINTS TO BE PROVIDED
  - ALL PACKAGE/SKID DRAINS TO BE PIPED TO BUNDED AREA OR CLOSEST DRAIN BOX
  - TYPICAL DRAIN BOX (TYPE A)
  - TYPICAL DRAIN INSIDE ROOM (TYPE C)
  - TO BE PROVIDED WATER SEAL, MIN.760mm.
  - LOCATED INSIDE WINDWALLS.
  - THE DRAINS HOLDING TANK CANNOT COVER HEAVY RAIN FALLS. 3-WAY VALVES LOCATED ON MAIN DECK TO BE OPENED TO BYPASS CHECK OVERBOARD
  - ADDITION OF 2" LETTING TO CLEAN UP LINES



REV	NO	DATE	DESCRIPTION	BY

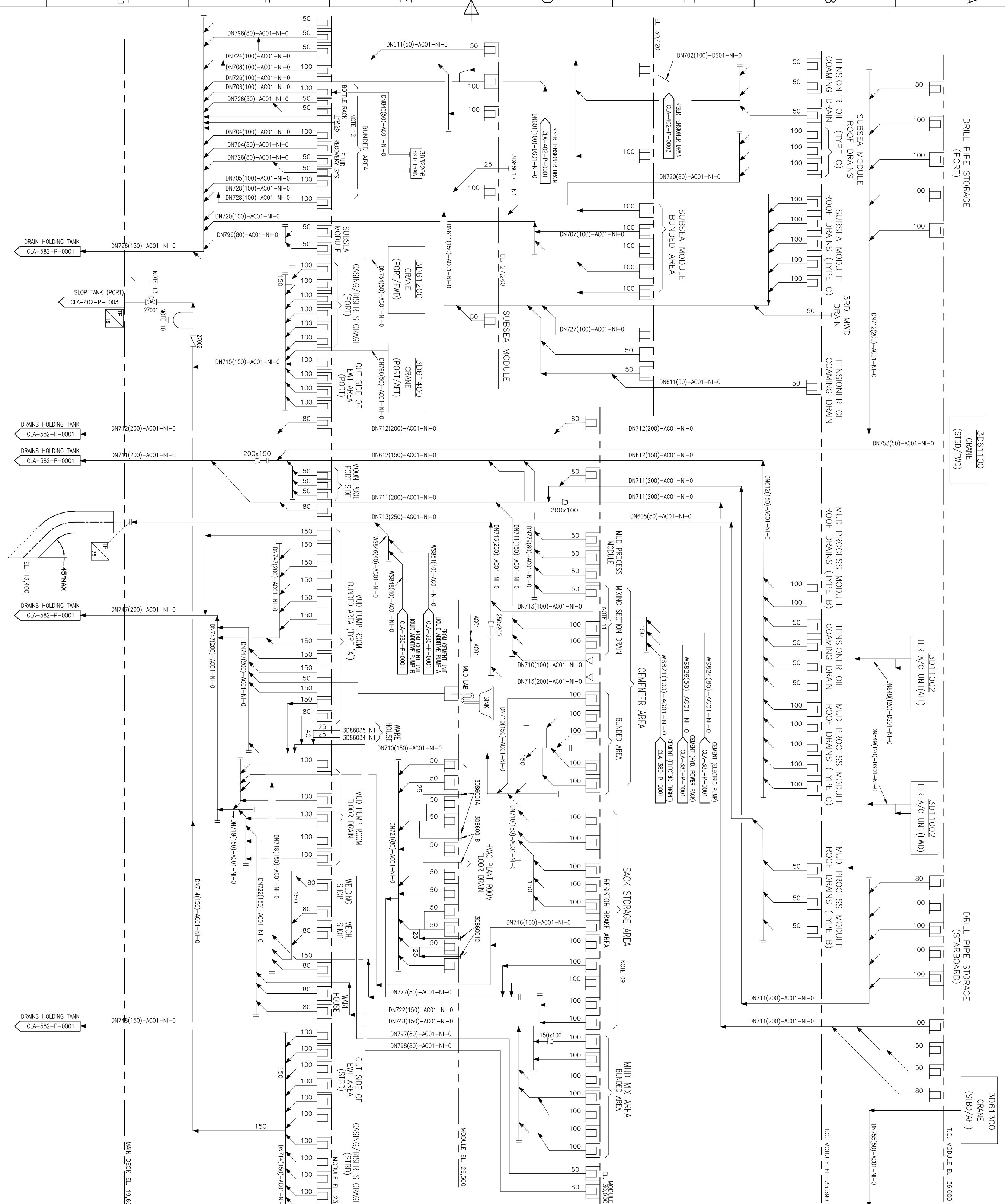
**DEEP OCEAN CLARION**  
**PIPING & INSTRUMENT DIAGRAM**  
**DRAINAGE SYSTEM HAZARDOUS**

DRAWN BY: DL  
 CHECKED BY: YN  
 APPRD BY: YN

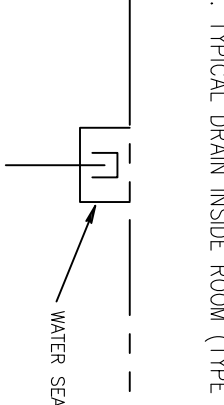
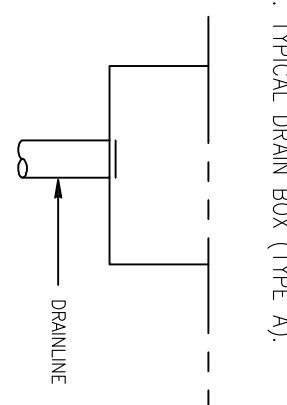
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 DATE: 03/01/2011  
 SHEET: 1 OF 1

DWG NO. CLA-582-P-0001

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- NOTES:
- HEADERS CAN BE SITUATED UNDER ANY SUITABLE DECK LEVEL TO SUIT LAYOUT.
  - DIRTY DRAIN LINES CONTAINING MUD TO HAVE A FALL OF 1:50 WHERE POSSIBLE.
  - CLEAN DRAIN LINES TO HAVE A FALL OF 1:50 WHERE POSSIBLE.
  - POCKETS ARE NOT ACCEPTABLE IN ANY DRAIN LINES.
  - RODDING POINTS TO BE PROVIDED.
  - ALL PACKAGE/SKID DRAINS TO BE PIPED TO BUNDED AREA OR CLOSEST DRAIN BOX.
  - TYPICAL DRAIN BOX (TYPE A).
  - TYPICAL DRAIN INSIDE ROOM (TYPE C).
  - 10 OFF SCUPPERS IN THE SACK STORAGE AREA ARE REQUIRED.
  - 10 TO BE PROVIDED WATER SEAL MIN. 760mm.
  - DRAIN BOXES WITH PLUGS FOR CEMENTING UNIT, BATCH MIXER, LAS STORAGE SKID & LAS METERING SKID. REF P&ID: CLA-380-P-0001
  - DRAIN LINE FROM MIXING SYSTEM BOP RECOVERY. (3032720)
  - THE DRAINS HOLDING TANK CANNOT COVER HEAVY RAIN FALLS.
  - 3-WAY VALVES LOCATED ON MAIN DECK TO BE OPENED TO BYPASS DIRECTLY OVERBOARD.



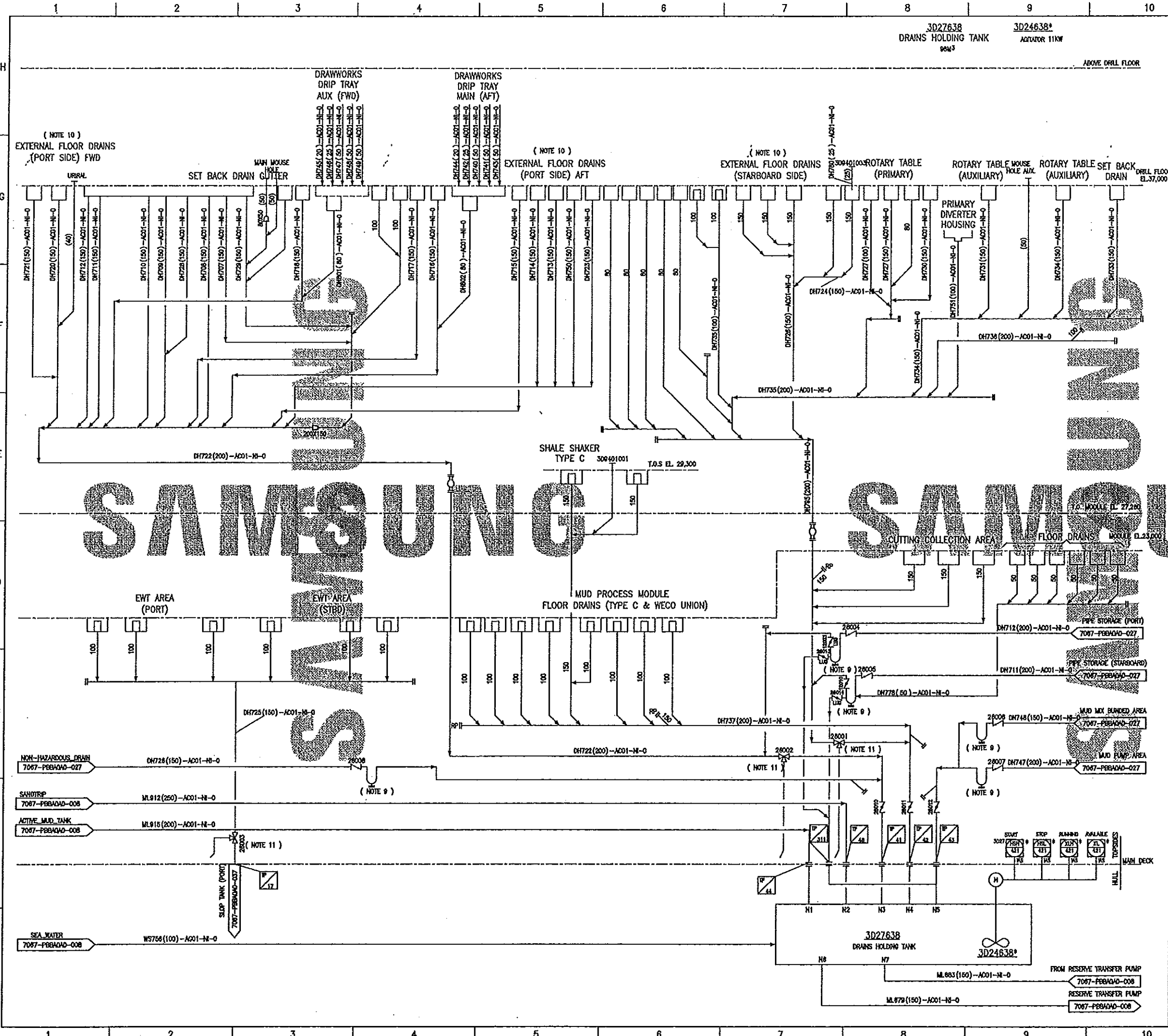
DRAWING NO.		7067-PRB040-027	
DESCRIPTION		PIPING & INSTRUMENT DIAG. DRAINAGE SYST. NON-HAZARDOUS	
SHEET NO.		1 OF 1	
SCALE		NONE	
DATE		22/04/2011	
DRAWN BY		DL	
CHECKED BY		ER	
APPROVED BY		ER	
DRAWING NO.		7067-PRB040-027	
DESCRIPTION		PIPING & INSTRUMENT DIAG. DRAINAGE SYST. NON-HAZARDOUS	
SHEET NO.		1 OF 1	
SCALE		NONE	
DATE		22/04/2011	
DRAWN BY		DL	
CHECKED BY		ER	
APPROVED BY		ER	

DEEP OCEAN CLARION  
PIPING & INSTRUMENT DIAGRAM  
DRAINAGE SYSTEM NON-HAZARDOUS

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PRIDE INTERNATIONAL





**NOTES:**

- HEADERS CAN BE SITUATED UNDER ANY SUITABLE DECK LEVEL TO SUIT LAYOUT.
- DIRTY DRAIN LINES CONTAINING MUD TO HAVE A FALL OF 1:50 WHERE POSSIBLE.
- CLEAN DRAIN LINES TO HAVE A FALL OF 1:50 WHERE POSSIBLE.
- POCKETS ARE NOT ACCEPTABLE IN ANY DRAIN LINES.
- ROODING POINTS TO BE PROVIDED.
- ALL PACKAGE/SKID DRAINS TO BE PIPED TO BUNDLED AREA OR CLOSEST DRAIN BOX.
- TYPICAL DRAIN BOX (TYPE A).

**8. TYPICAL DRAIN INSIDE ROOM (TYPE C)**

**9. TO BE PROVIDED WATER SEAL MIN.76MM.**

**10. LOCATED INSIDE WINDOW WALLS.**

**11. THE DRAINS HOLDING TANK CANNOT COVER HEAVY RAIN FALLS. 3-WAY VALVES LOCATED ON MAIN DECK TO BE OPERATED TO BYPASS DIRECTLY OVERBOARD.**

DRAWING No.	TITLE						
REFERENCE DRAWINGS							
REVISIONS							
REV	ISSUE	DATE	DRG	CHK	ENR	GO APP	BY APP
F	AS-BUILT	30.08.10					

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PROJECT: **PRIDE DRILLSHIP #2**

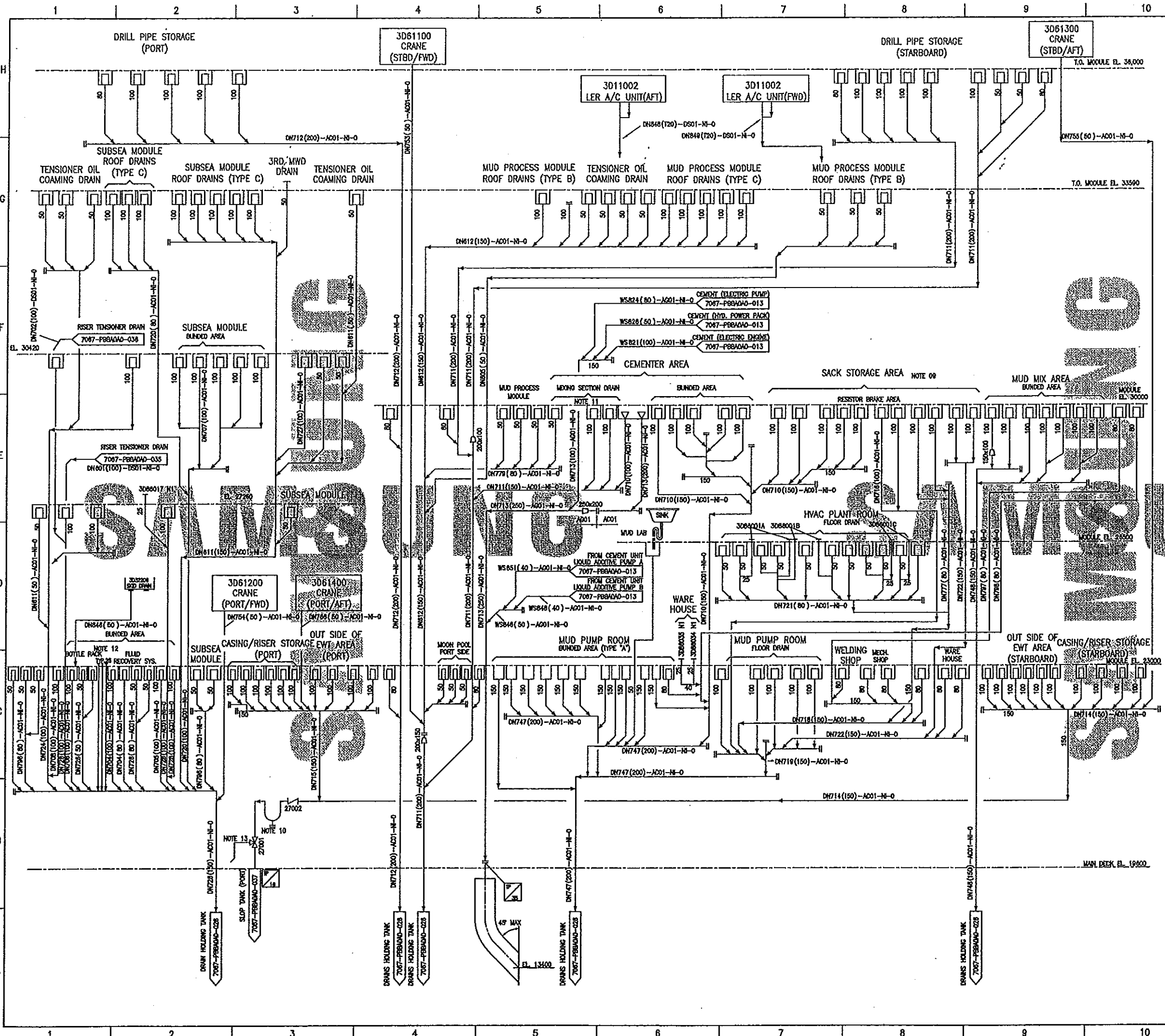
CLIENT: **PRIDE** Pride Global Ltd.

BUILDER: **SAMSUNG** SAMSUNG HEAVY INDUSTRIES

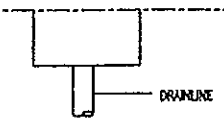
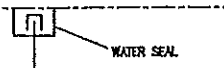
DRAWING TITLE: **PIPING & INSTRUMENT DIAGRAM DRAINAGE SYSTEM HAZARDOUS**

DRG SIZE	SCALE	N.T.S	CAO No.	DRAWN BY		
A1						
SFT No.	DRAWING No.	SERVICE No.	JOB No.	DESCRIPTION MOD. ETC. No.	SHT No.	REV
	7067-PBBA0A0-026	1/1	F			

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**NOTES**

- HEADERS CAN BE SITUATED UNDER ANY SUITABLE DECK LEVEL TO SUIT LAYOUT.
  - DIRTY DRAIN LINES CONTAINING MUD TO HAVE A FALL OF 1:50 WHERE POSSIBLE.
  - CLEAN DRAIN LINES TO HAVE A FALL OF 1:50 WHERE POSSIBLE.
  - POCKETS ARE NOT ACCEPTABLE IN ANY DRAIN LINES.
  - ROOFING POINTS TO BE PROVIDED.
  - ALL PACKAGE/SKD DRAINS TO BE PIPED TO BUNDED AREA OR CLOSEST DRAIN BOX.
  - TYPICAL DRAIN BOX (TYPE A).
- 
- TYPICAL DRAIN INSIDE ROOM (TYPE C).
- 
- 10 OFF SCOURERS IN THE SACK STORAGE AREA ARE REQUIRED.
  - TO BE PROVIDED WATER SEAL MIN. 760MM.
  - DRAIN BOXES WITH FLUSH FOR CEILING/WALL, BATCH MIXER, LAS STORAGE SKD AND LAS METERING SKD. REF. P&ID: 07112004-1200-P-0113
  - DRAIN LINE FROM MUDING SYSTEM BOP RECOVERY (3032720)
  - THE DRAINS HOLDING TANK CAN'T COVER HEAVY RAIN FALLS. 3-WAY VALVES LOCATED ON MAIN DECK TO BE OPENED TO BYPASS DIRECTLY OVERBOARD.

DRAWING No.	TITLE

REVISIONS						
REV	ISSUE	DATE	ORIG	CHK	END	CO APP
F	AS-BUILT	30.08.10	ASC	PCW		

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PROJECT **PRIDE DRILLSHIP #2**

CLIENT **PRIDE Pride Global Ltd.**

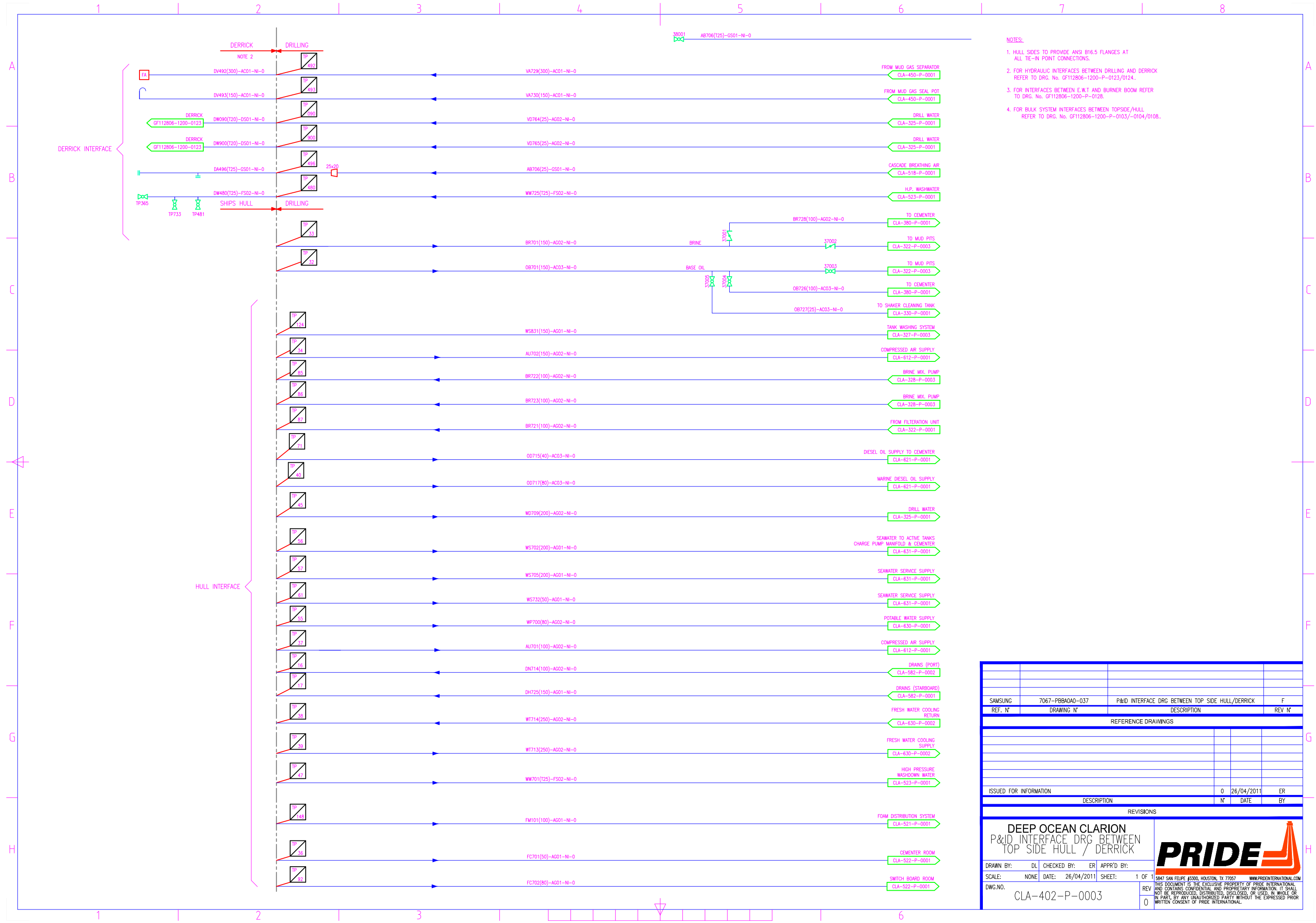
BUILDER **SAMSUNG SAMSUNG HEAVY INDUSTRIES**

DRAWING TITLE **PIPING & INSTRUMENT DIAGRAM DRAINAGE SYSTEM NON-HAZARDOUS**

DWG SIZE	SCALE	N.T.S	CAD No.	DRAWN BY.
A1				
SFT No.	DRAWING No.	7067-PBBA0A0-027		1/1 F
SERVICE No.	JOB No.	DISC000/ASH MOD BFG No	SFT No. REV	

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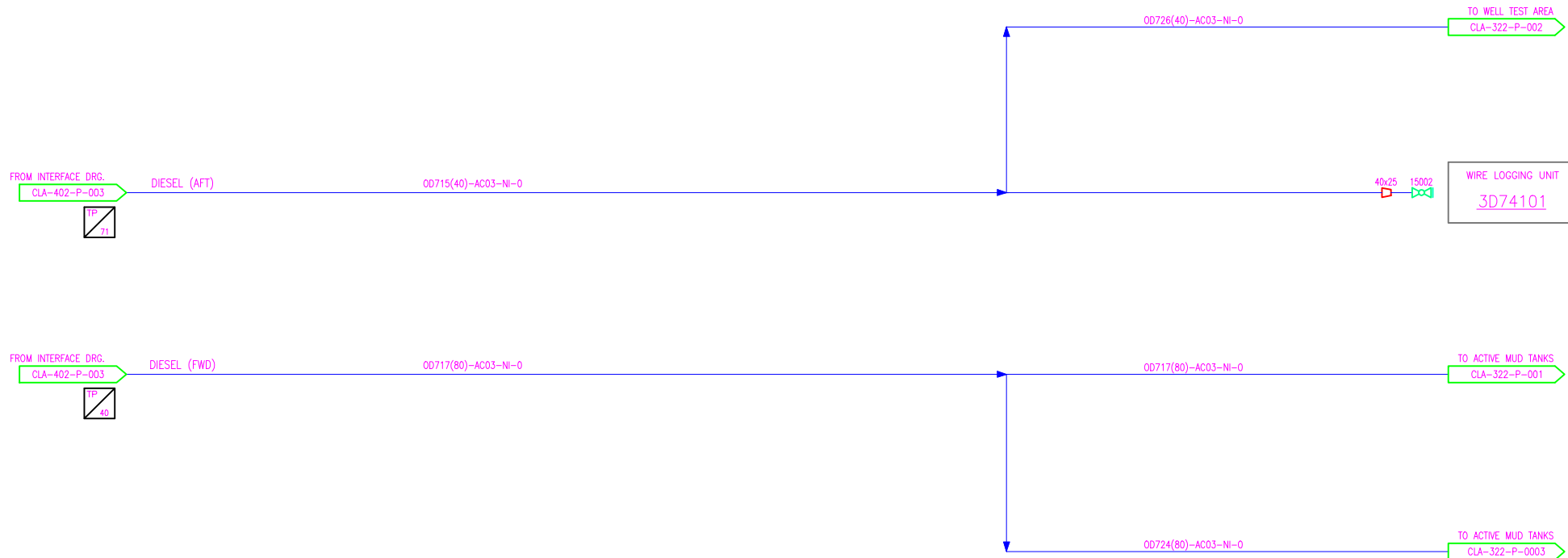





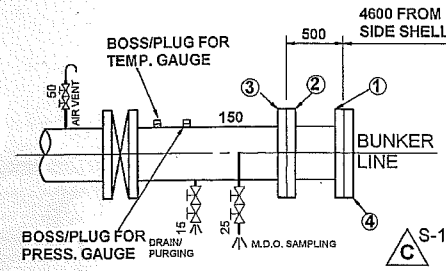
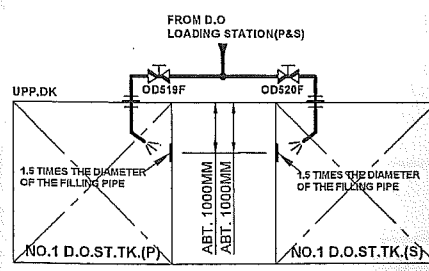
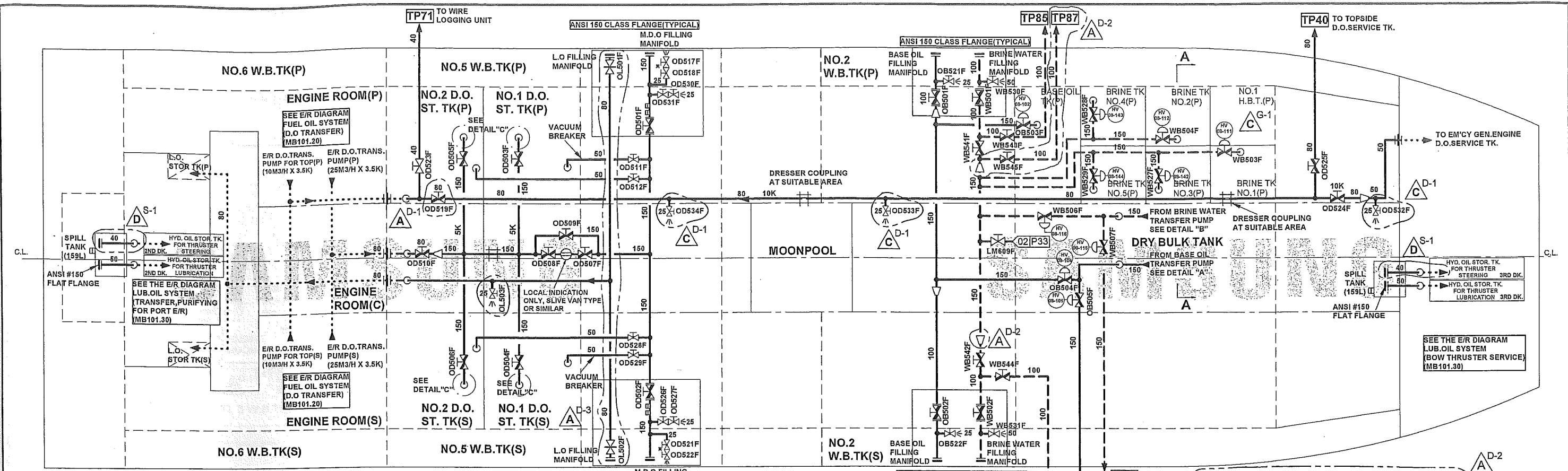
- NOTES:**
1. HULL SIDES TO PROVIDE ANSI B16.5 FLANGES AT ALL TIE-IN POINT CONNECTIONS.
  2. FOR HYDRAULIC INTERFACES BETWEEN DRILLING AND DERRICK REFER TO DRG. No. GF112806-1200-P-0123/0124.
  3. FOR INTERFACES BETWEEN E.W.T AND BURNER BOOM REFER TO DRG. No. GF112806-1200-P-0128.
  4. FOR BULK SYSTEM INTERFACES BETWEEN TOPSIDE/HULL REFER TO DRG. No. GF112806-1200-P-0103/-0104/0108.

SAMSUNG	7067-PBBA0A-037	P&ID INTERFACE DRG BETWEEN TOP SIDE HULL/DERRICK	F
REF. N°	DRAWING N°	DESCRIPTION	REV. N°
REFERENCE DRAWINGS			
ISSUED FOR INFORMATION			
0 26/04/2011 ER			
DESCRIPTION			
N° DATE BY			
REVISIONS			
<b>DEEP OCEAN CLARION</b> P&ID INTERFACE DRG BETWEEN TOP SIDE HULL / DERRICK		<b>PRIDE</b>	
DRAWN BY: DL	CHECKED BY: ER	APPR'D BY:	
SCALE: NONE	DATE: 26/04/2011	SHEET: 1 OF 1	5647 SAN FELPE #3300, HOUSTON, TX 77057
DWG. NO. CLA-402-P-0003	THIS DOCUMENT IS THE EXCLUSIVE PROPERTY OF PRIDE INTERNATIONAL AND CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION. IT SHALL NOT BE REPRODUCED, DISTRIBUTED, DISCLOSED, OR USED, IN WHOLE OR IN PART, BY ANY UNAUTHORIZED PARTY WITHOUT THE EXPRESSED WRITTEN CONSENT OF PRIDE INTERNATIONAL.		

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WIRE LOGGING UNIT



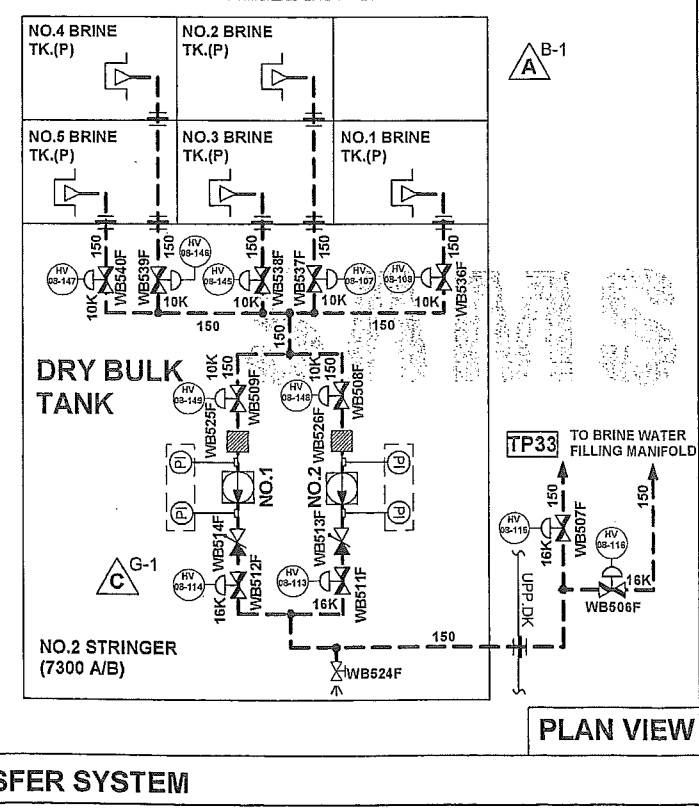
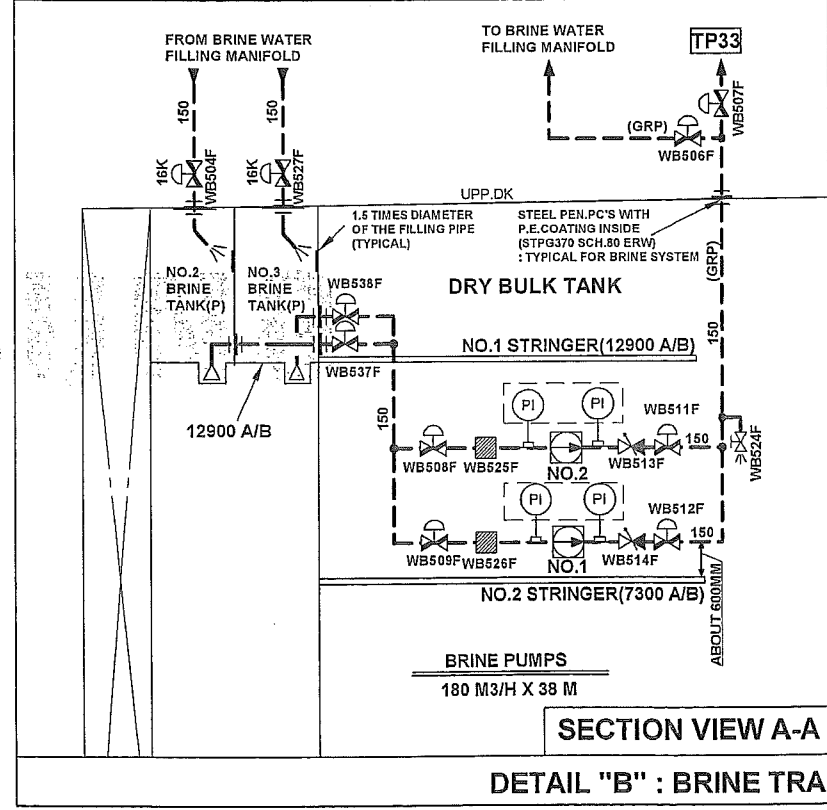
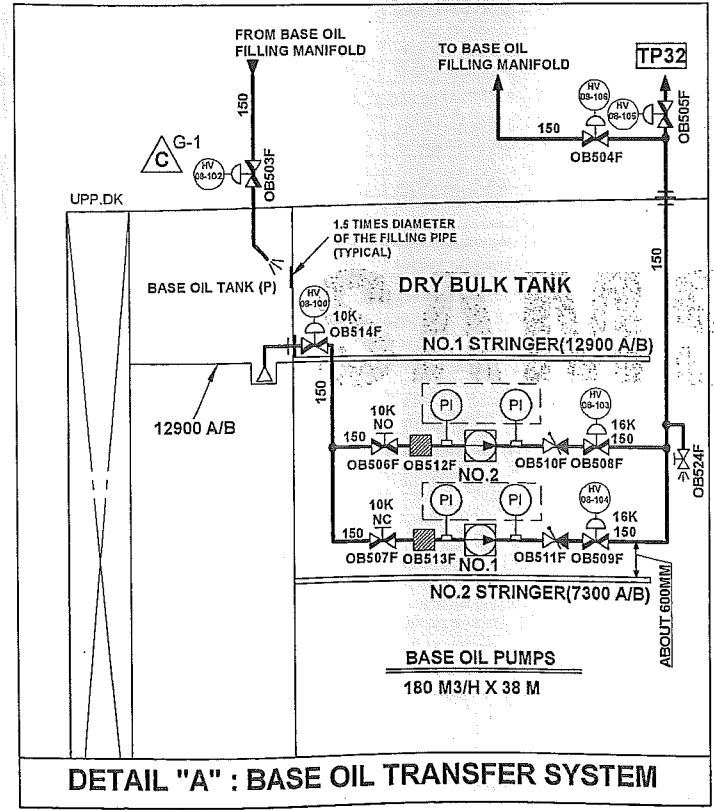
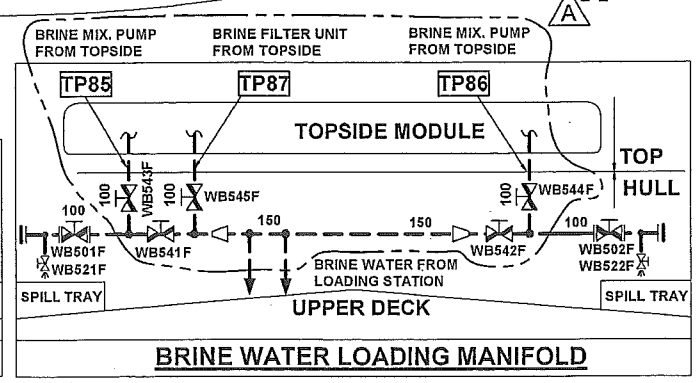
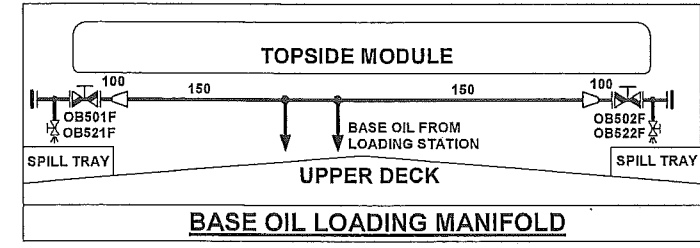
SAMSUNG	7067-PBBA0A0-015	PIPING & INSTRUMENT DIAGRAM - DIESEL OIL SYSTEM	F
REF. N°	DRAWING N°	DESCRIPTION	REV N°
REFERENCE DRAWINGS			
First Issue		0	26/04/2011 DL
DESCRIPTION	N°	DATE	BY
REVISIONS			
DEEP OCEAN CLARION PIPING & INSTRUMENT DIAGRAM DIESEL OIL DISTRIBUTION SYSTEM			
DRAWN BY:	DL	CHECKED BY:	ER
SCALE:	NONE	DATE:	26/04/2011
DWG.N°:	CLA-621-P-0001		SHEET: 1 OF 1
REV	0	<small>5847 SAN FELIPE #3300, HOUSTON, TX 77057</small> <small>WWW.PRIDEINTERNATIONAL.COM</small> <small>THIS DOCUMENT IS THE EXCLUSIVE PROPERTY OF PRIDE INTERNATIONAL AND CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION. IT SHALL NOT BE REPRODUCED, DISTRIBUTED, DISCLOSED, OR USED, IN WHOLE OR IN PART, BY ANY UNAUTHORIZED PARTY WITHOUT THE EXPRESSED PRIOR WRITTEN CONSENT OF PRIDE INTERNATIONAL.</small>	



**SHORE CONNECTION PIECES**

SIZE	QTY	TYPE	SKETCH	①②③ FLANGES
6" X 6"	2	PRINCIPAL (HINGED TYPE)		- ANSI B16.5 150LB - FLAT FACE (NO RAISED) - CONTINUOUS SPIRAL GROOVE (BS1550) - REDUCER SHALL BE STORED WITH ANGLE SEAT WITH A PIECE OF WOOD IN BETWEEN
6" X 8"	1	RESERVE REDUCER (STOCKS)		
6" X 10"	1			

④ BLINE FLANGE: THK. = SAME AS PIPE FLANGE  
TYPE = ANSI B16.5 150LB



**NOTE**

- JIS STANDARD WILL BE APPLIED FOR BASE OIL AND BRINE PUMP PIPING IN THE HULL PART.
- THE NUMBER AND POSITION OF COUPLING (EXPANSION JOINTS) WILL BE DETERMINED IN ACCORDANCE WITH DETAIL PIPING ARR'T.
- THE SIZE OF SPLASH PLATES IS TO BE 1.5 TIMES THE DIAMETER OF FILLING PIPE.
- PIPE SPEC. FOR BRINE & BASE OIL  
- BRINE WATER : G.R.P ( --- )  
HOWEVER STEEL MATERIAL WILL BE APPLIED FOR B'HD PENETRATION PCS. (JIS STPG370 SCH.80 ERW WITH POLYETHYLENE COATING INSIDE)  
- BASE OIL : STEEL, JIS STPG370 ERW, SCH.40 (SCH. 80 FOR PENETRATION)
- BRINE/BASE OIL REMOTE CONTROL VALVES WILL BE CONTROLLED FROM TOPSIDE.
- BASE OIL PUMPS/BRINE WATER PUMPS WILL BE CONTROLLED BY MCS OF TOPSIDE

TITLE : PRIDE DRILLSHIP

**D.O./O/BASE OIL/BRINE WATER FILLING & TRANSFER SYSTEM**

HULL NO.: 1756/1862/1898 DWG. NO.: MB101.25 E 1/1 42

SAMSUNG HEAVY INDUSTRIES CO., LTD



# CAPACITY PLAN WITH DEADWEIGHT SCALE

TANK CAPACITY SUMMARY TABLE

WATER BALLAST TANKS (S-G-1.025)							
COMPARTMENT	LOCATION (FR. NO.)	CAPACITIES			100.0% FULL		MAX. MT OF INERTIA (t)
		VOLUME 100.0% (m <sup>3</sup> )	WEIGHT 100.0% (MT)	L.C.G. FROM A.P. (m)	V.C.G. FROM B.L. (m)	FROM A.P. (m)	
NO.1 FWD B.W.B.T. (C)	106-133	1494.2	1531.5	195.216	1.466	43908	
NO.1 AFT W.B.T. (P)	94-106	3232.7	3403.7	164.825	8.850	24925	
NO.1 HOLD B.T. (S)	94-106	1973.9	2071.4	177.600	11.156	1532	
NO.2 W.B.T. (P)	85-94	2906.6	3073.2	151.466	5.338	17910	
NO.2 HOLD B.T. (S)	85-94	2265.1	2371.7	183.987	8.488	3986	
NO.3 W.B.T. (P)	76-85	2542.8	2696.4	140.801	11.140	2042	
NO.3 HOLD B.T. (S)	76-85	2051.7	2163.0	100.314	5.300	14520	
NO.4 W.B.T. (P)	67-76	4446.2	4652.4	223.200	11.146	3574	
NO.4 HOLD B.T. (S)	67-76	2801.9	2917.9	75.200	5.075	21893	
NO.5 W.B.T. (P)	58-67	4446.2	4652.4	223.200	11.143	3574	
NO.5 HOLD B.T. (S)	58-67	2721.9	2837.9	75.200	11.139	4595	
NO.6 W.B.T. (P)	49-58	3423.3	3587.5	153.300	5.305	8967	
NO.6 HOLD B.T. (S)	49-58	2837.5	2953.7	75.079	5.659	19295	
A.F.T. (S)	0-13	1841.2	1923.3	8.990	12.641	3771	
<b>SUB TOTAL</b>		<b>81180.0</b>	<b>83209.6</b>				

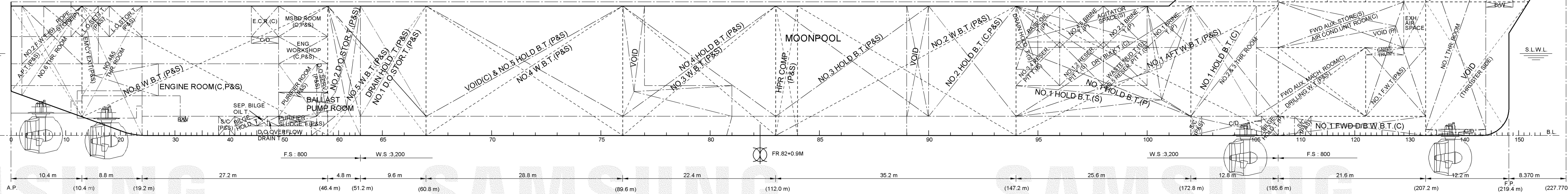
FRESH WATER TANKS (S-G-1.000)							
COMPARTMENT	LOCATION (FR. NO.)	CAPACITIES			100.0% FULL		MAX. MT OF INERTIA (t)
		VOLUME 100.0% (m <sup>3</sup> )	WEIGHT 100.0% (MT)	L.C.G. FROM A.P. (m)	V.C.G. FROM B.L. (m)	FROM A.P. (m)	
NO.1 F.W.T. (P)	122-133	514.5	514.5	202.800	5.72	176	
NO.2 F.W.T. (P)	122-133	546.3	546.3	202.800	7.850	176	
NO.3 F.W.T. (S)	67-76	344.2	344.2	5.460	12.03	74	
F.W.T. FOR LOCAL F/F	10-13	15.0	15.0	9.200	12.540	14	
<b>SUB TOTAL</b>		<b>1420.0</b>	<b>1420.0</b>				

DIESEL OIL TANKS (S-G-0.900)							
COMPARTMENT	LOCATION (FR. NO.)	CAPACITIES			98.0% FULL		MAX. MT OF INERTIA (t)
		VOLUME 100.0% (m <sup>3</sup> )	WEIGHT 98.0% (MT)	L.C.G. FROM A.P. (m)	V.C.G. FROM B.L. (m)	FROM A.P. (m)	
D.O. SERV. T. (P)	56-58	75.6	74.1	66.7	45.600	6.881	32
NO.1 D.O. STOR. T. (S)	64-67	1905.9	1867.6	1680.9	58.000	10.983	1532
NO.2 D.O. STOR. T. (S)	64-67	1823.0	1784.7	1602.3	48.576	10.683	880
NO.3 D.O. STOR. T. (S)	56-64	1023.0	1002.5	902.3	48.576	10.683	880
<b>SUB TOTAL</b>		<b>6008.6</b>	<b>5888.4</b>	<b>5299.6</b>			

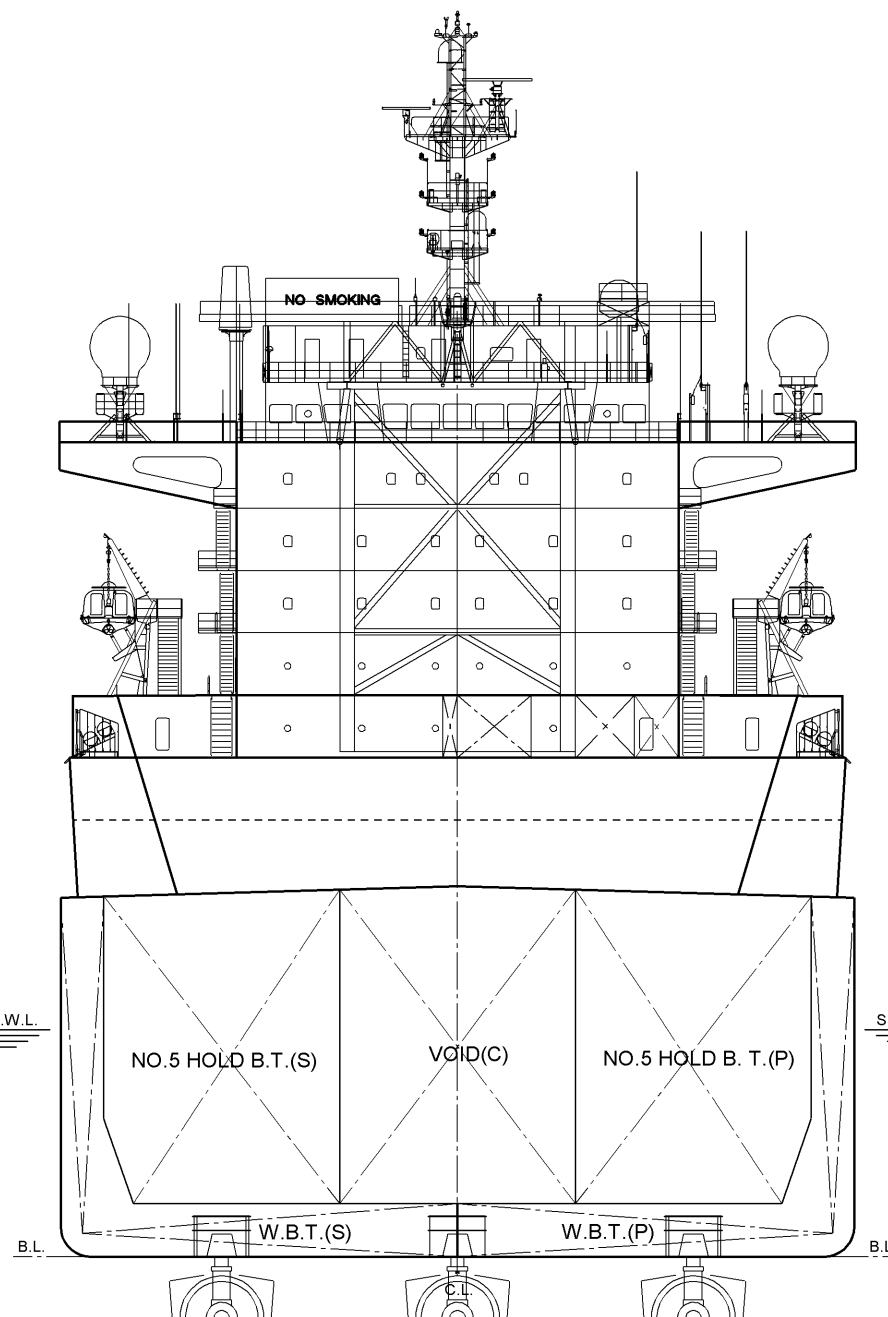
LUBRICATING OIL TANKS (S-G-0.900)							
COMPARTMENT	LOCATION (FR. NO.)	CAPACITIES			90.0% FULL		MAX. MT OF INERTIA (t)
		VOLUME 100.0% (m <sup>3</sup> )	WEIGHT 90.0% (MT)	L.C.G. FROM A.P. (m)	V.C.G. FROM B.L. (m)	FROM A.P. (m)	
L.O. STOR. T. (P)	18-24	52.3	47.1	42.4	16.800	16.720	5
L.O. SETT. T. (P)	13-18	43.6	39.3	35.3	12.400	16.720	4
L.O. DRAIN T. (P)	19-24	43.6	39.3	35.3	12.400	16.720	4
L.O. DRAIN T. (S)	24-27	3.1	2.7	2.5	20.419	10.067	1
<b>SUB TOTAL</b>		<b>189.3</b>	<b>170.3</b>	<b>153.3</b>			

MISC. TANKS							
COMPARTMENT	LOCATION (FR. NO.)	CAPACITIES			100.0% FULL		MAX. MT OF INERTIA (t)
		VOLUME 100.0% (m <sup>3</sup> )	WEIGHT 100.0% (MT)	L.C.G. FROM A.P. (m)	V.C.G. FROM B.L. (m)	FROM A.P. (m)	
BILGE HOLDING T. (AFT) (C)	41-45	55.1	34.400	2.100	511		
BILGE HOLDING T. (FWD) (P)	106-133	184.0	184.0	1.384	84		
SEP. BILGE OIL T. (S)	40-47	10.3	36.800	2.100	131		
O.D. OVERFLOW DRAIN (P)	40-49	41.1	42.800	2.100	351		
PURIFIER SLUDGE T. (P)	40-49	18.1	42.000	2.100	6		
PURIFIER SLUDGE T. (S)	72-85	146.0	146.000	15.783	85		
BRINE DRAIN H. T. (FWD) (S)	94-95	23.6	148.800	10.900	89		
BRINE DRAIN H. T. (AFT) (P)	64-67	986.0	56.000	11.156	191		
BRINE DRAIN H. T. (AFT) (S)	64-67	986.0	56.000	11.156	191		
<b>SUB TOTAL</b>		<b>2264.2</b>					

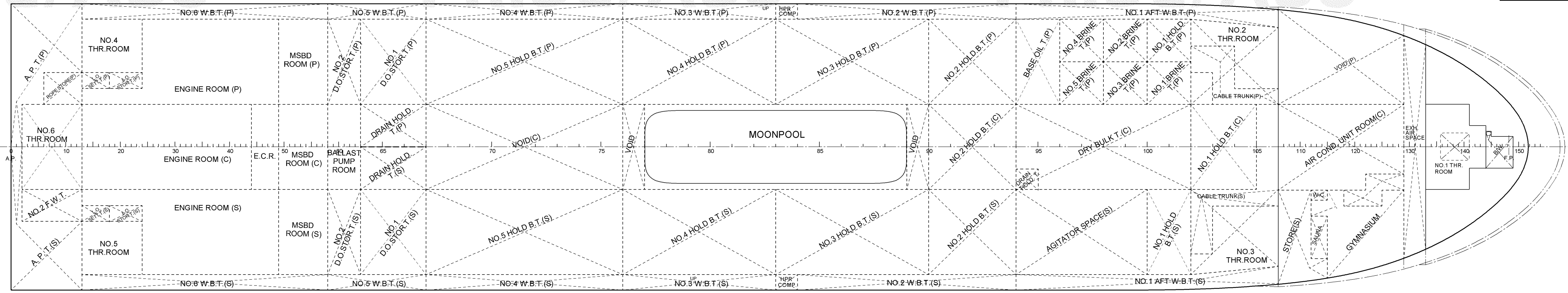
DRILLING TANKS							
COMPARTMENT	LOCATION (FR. NO.)	CAPACITIES			100.0% FULL		MAX. MT OF INERTIA (t)
		VOLUME 100.0% (m <sup>3</sup> )	WEIGHT 100.0% (MT)	L.C.G. FROM A.P. (m)	V.C.G. FROM B.L. (m)	FROM A.P. (m)	
WASTE MUD T. (S)	98-100	251.8	163.200	10.500	128		
DRILLING M. T. (P)	100-122	1444.9	191.665	8.623	2065		
BASE OIL T. (P)	94-96	1427.1	191.601	7.978	1856		
NO.1 BRINE T. (P)	100-102	253.0	169.600	16.116	128		
NO.2 BRINE T. (P)	98-100	146.0	163.200	16.027	128		
NO.3 BRINE T. (P)	96-100	253.0	163.200	16.116	128		
NO.4 BRINE T. (P)	96-98	146.0	158.800	16.027	128		
NO.5 RESERVE PIT T. (S)	96-98	253.0	158.800	16.116	128		
NO.6 RESERVE PIT T. (S)	96-98	251.8	158.800	10.500	128		
NO.7 RESERVE PIT T. (S)	94-96	251.8	158.800	10.500	128		
NO.8 RESERVE PIT T. (S)	94-96	251.8	158.800	10.500	128		
NO.9 RESERVE PIT T. (S)	96-100	251.8	163.200	10.500	128		
<b>SUB TOTAL</b>		<b>6132.7</b>					



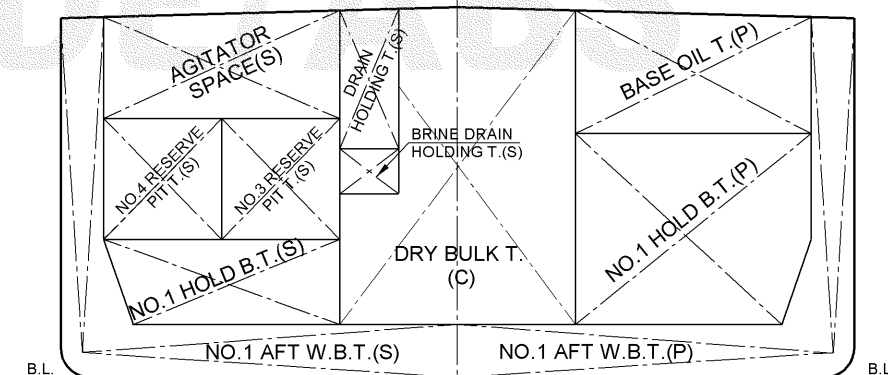
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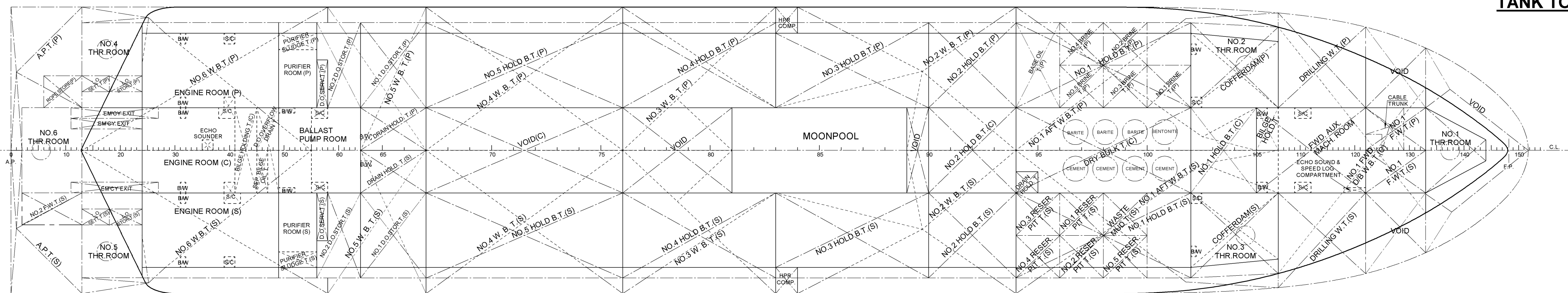
TYPICAL SECTION (LOOKING AFT)



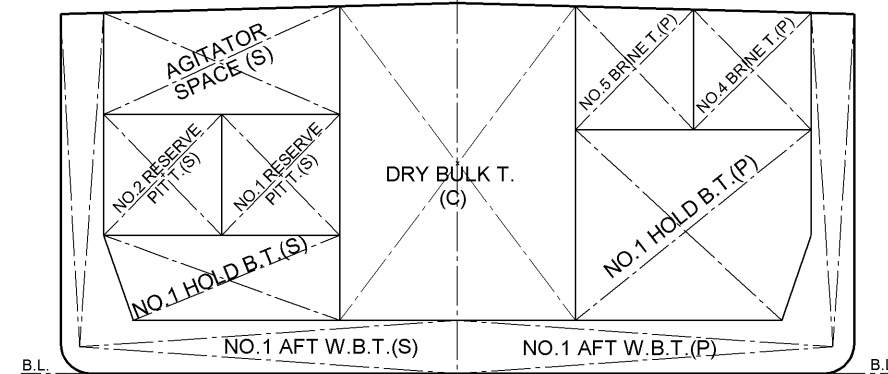
UPPER DECK PLAN



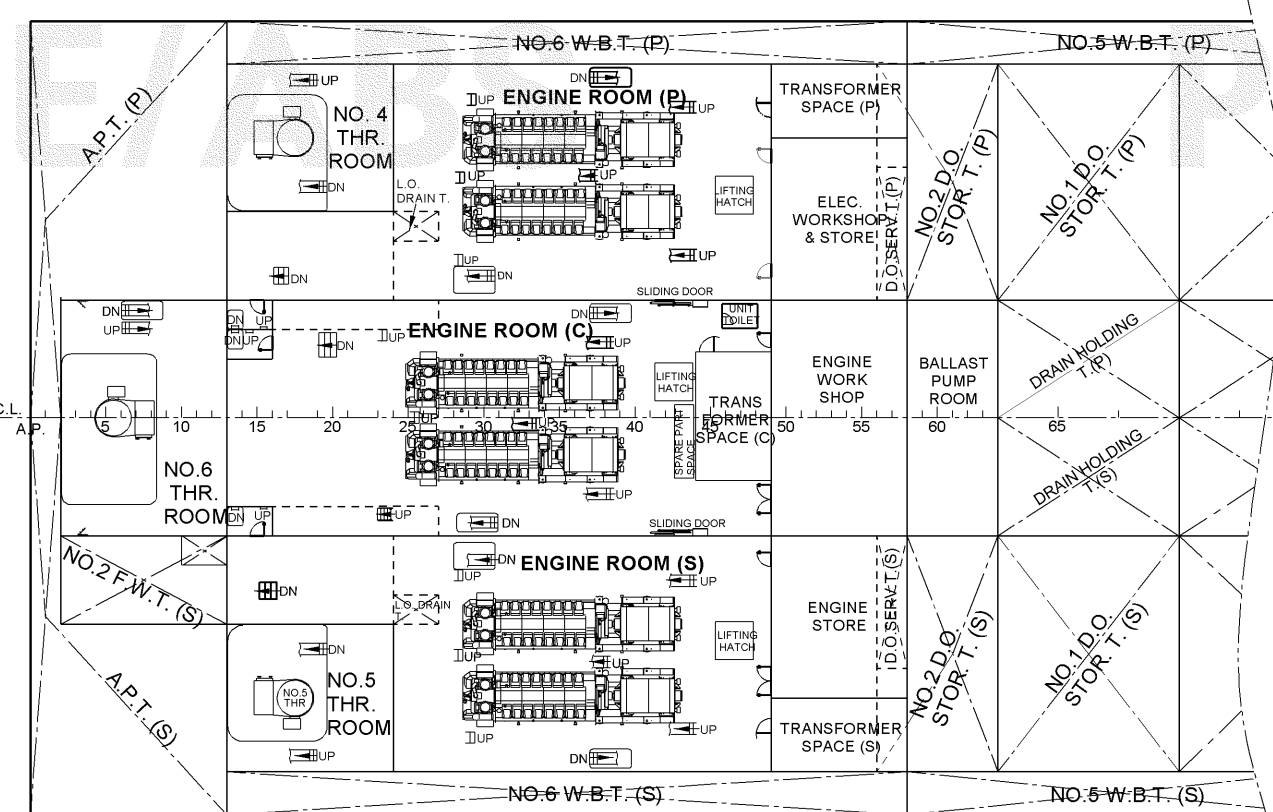
FR. 95 SECTION (LOOKING AFT)



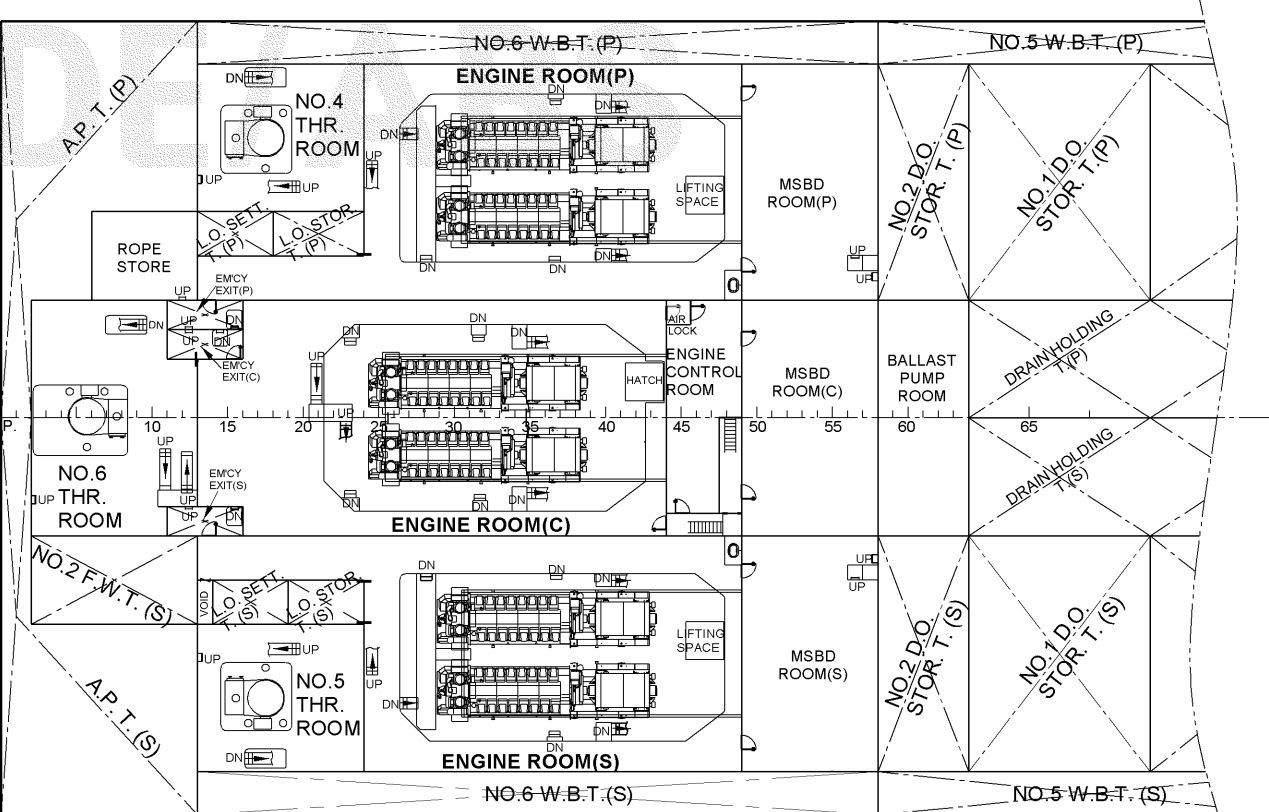
TANK TOP PLAN



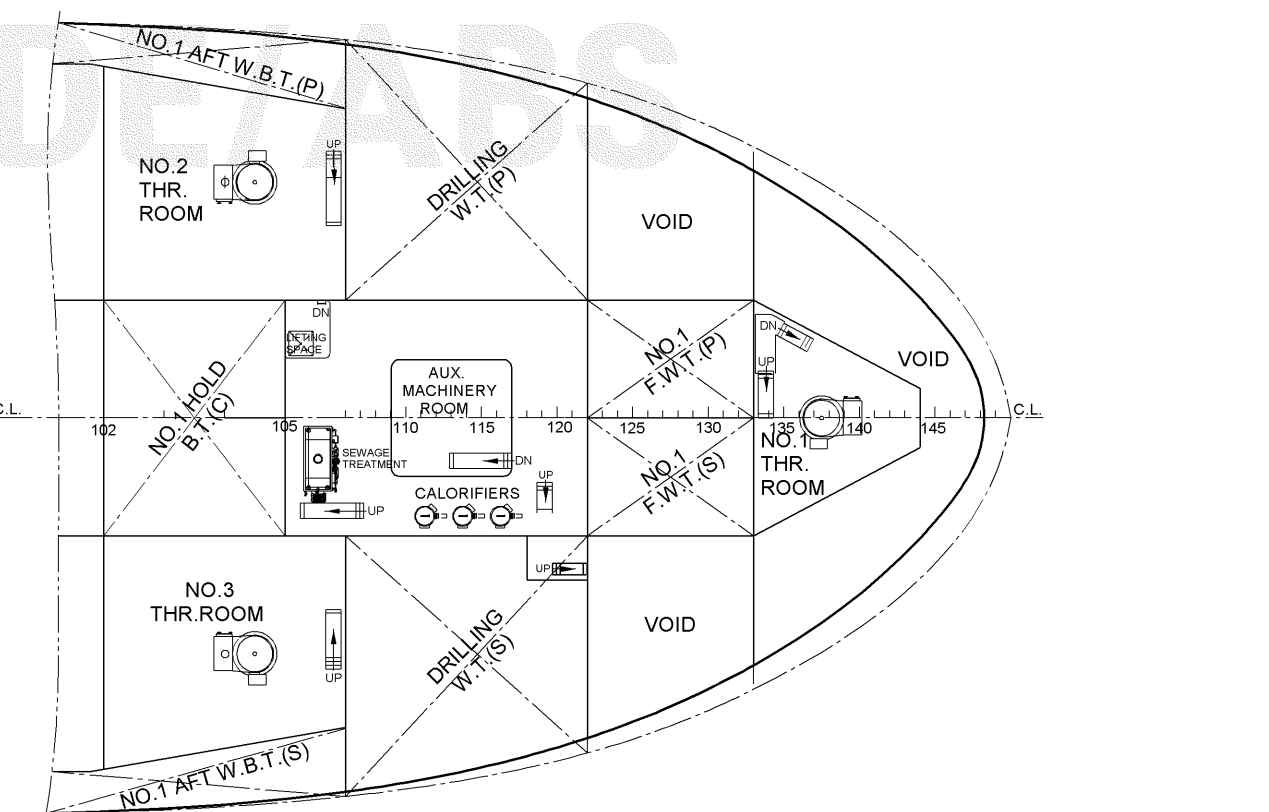
FR. 97 SECTION (LOOKING AFT)



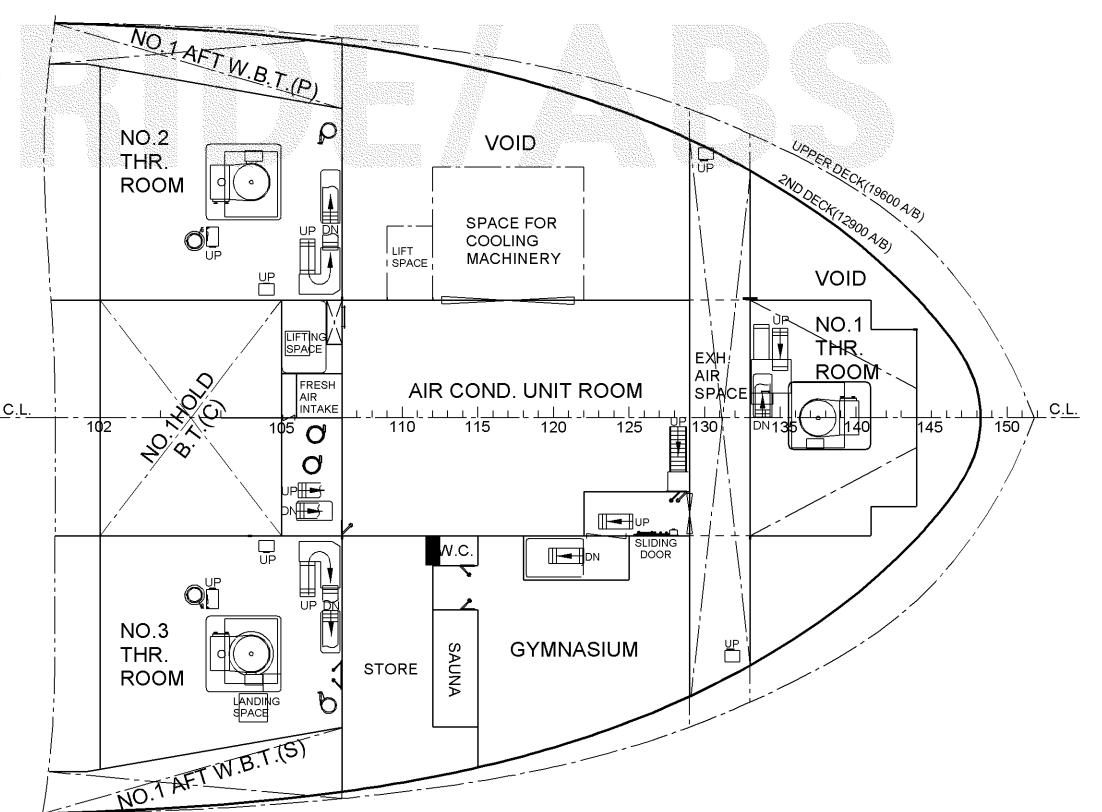
3RD DECK PLAN



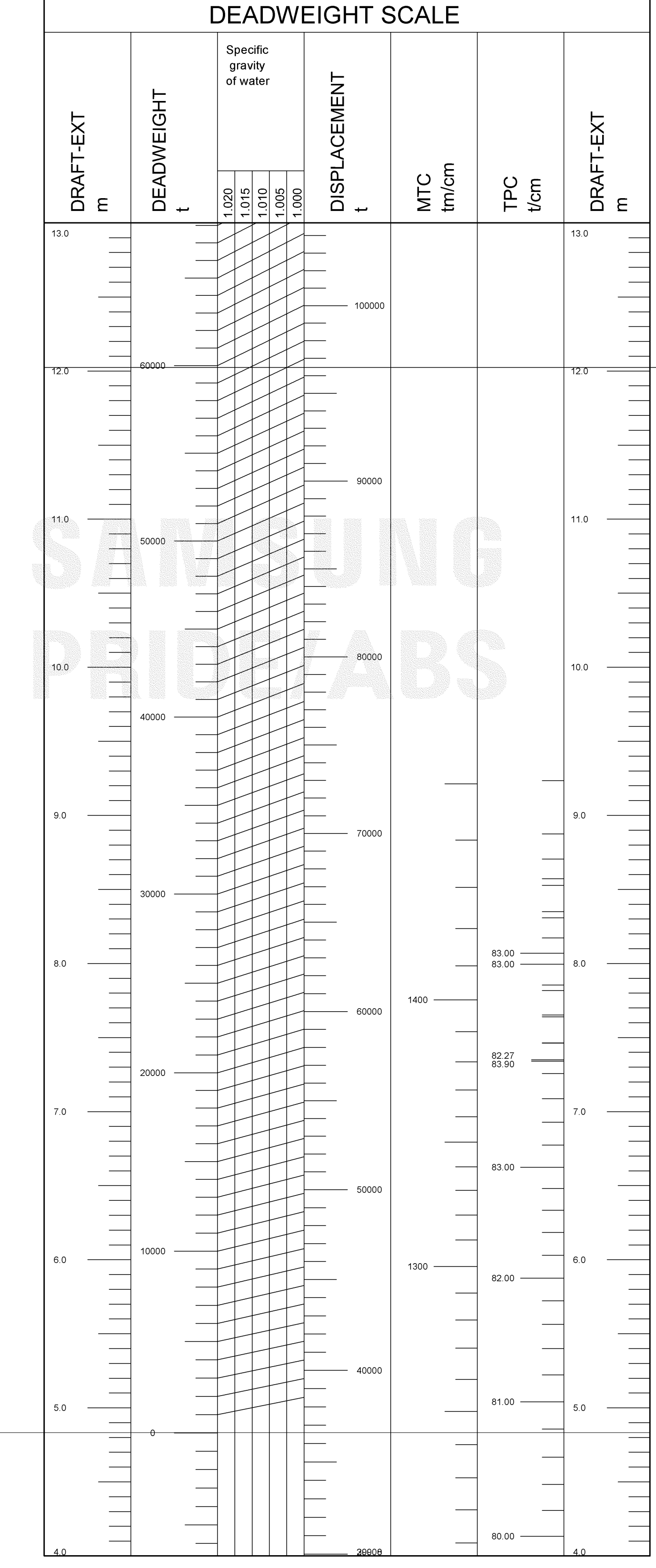
2ND DECK PLAN



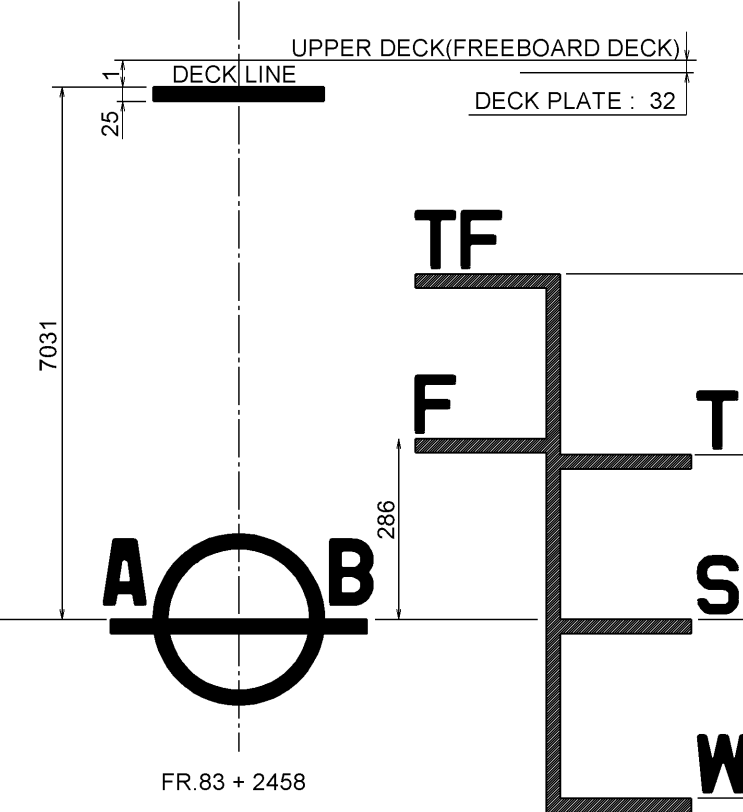
3RD DECK PLAN



2ND DECK PLAN



DEADWEIGHT SCALE



PRINCIPAL DIMENSIONS

LENGTH O. A. (EXCLUDING HELI. DECK)	227.814 m
LENGTH B. P.	219.400 m
BREADTH (MOULDED)	42.000 m
DEPTH (MOULDED)	19.000 m
SCANTLING DRAUGHT (MOULDED)	13.000 m
OPERATING DRAUGHT (MOULDED)	12.000 m
TRANSIT DRAUGHT (MOULDED)	8.500 m

- LIGHTWEIGHT : 365821 MT  
- L.C.G : 114.942 m FROM A.P.  
- V.C.G : 21.392 m A/B

FREEBOARD, DRAFT & DEADWEIGHT TABLE				
LOAD LINE	FREEBOARD (m)	DRAFT(EXT.) (m)	DISPLACEMENT (MT)	DEADWEIGHT (MT)
TROPICAL FRESH WATER	TF 6.495	12.564	98,573.0	61,990.9
FRESH WATER	F 6.745	12.314	96,510.8	59,928.7
TROPICAL T	6.781	12.278	98,619.3	62,037.2
SUMMER	S 7.031	12.028	96,506.7	59,924.6
WINTER	W 7.281	11.778	94,395.3	57,813.2

INTERNATIONAL TONNAGE TABLE	
GROSS TONNAGE	NET TONNAGE
60,162	18,048

PLAN HISTORY					
Rev.	Date	Reason for issue	Prepared by	Checked by	Approved by
-	17 Aug. 2010	Prepared by Project Engineering Department	J. S. Park	H. S. Park	J. H. Park

Registration : Marshall Islands

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Department : Project Engineering	Ship Type : 96K Drillship	Class : ABS	
Hull No. : 1756/166298	Ship Name : DEEP OCEAN CLARION	Document Title : CAPACITY PLAN WITH DEADWEIGHT SCALE	
Approved by : J. H. Park	Checked by : H. S. Park	Buyer's Document No. :	
Prepared by : J. S. Park (6549)	Builder's Document No. : PF30210	Rev. No. :	
SAMSUNG HEAVY IND. CO., LTD. GEJJE SHIPYARD, KOREA	Scale : 1/400	Unit : mm	Consolidated No. : GY-07



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