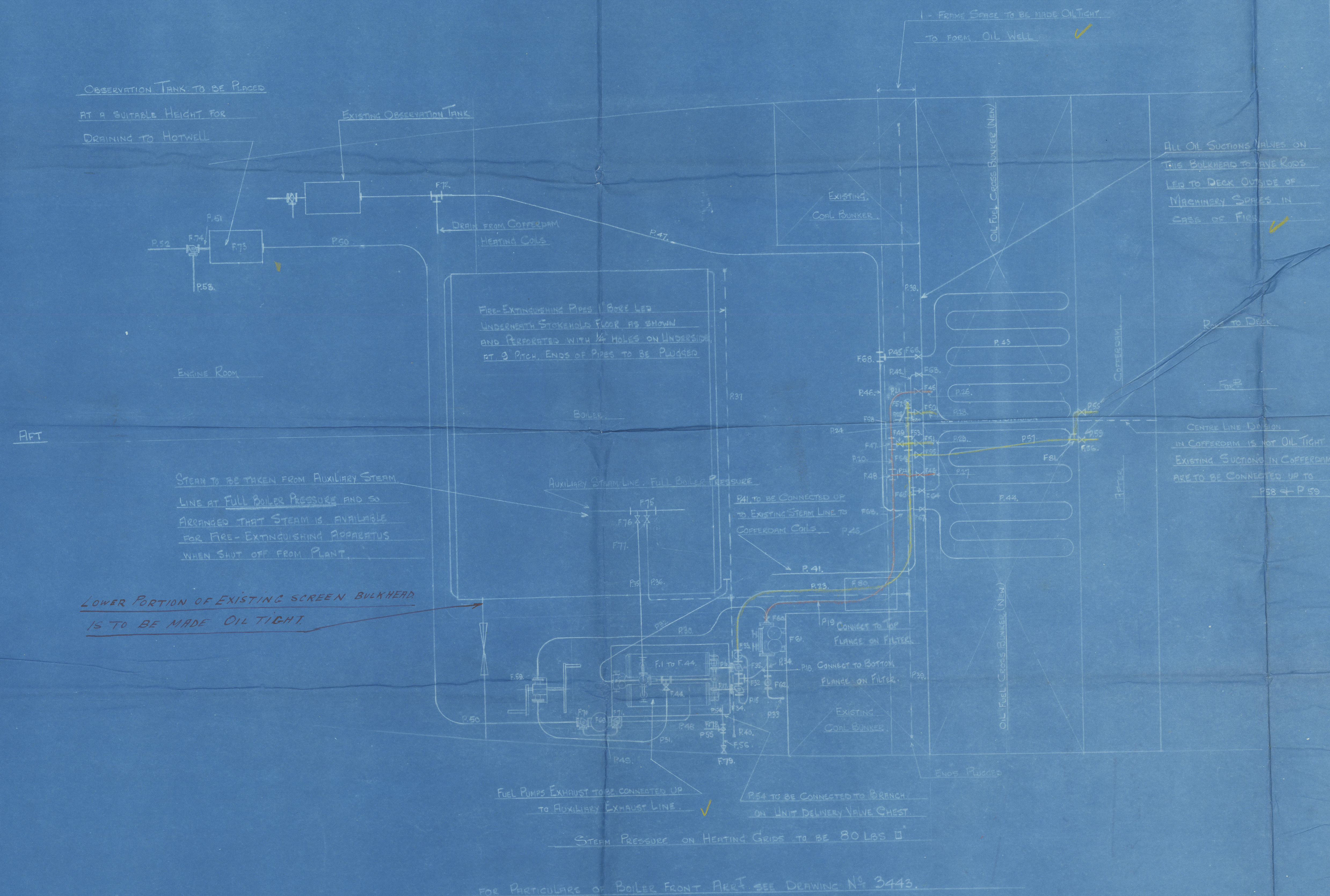


SMITHS' LIQUID FUEL SYSTEMS
(PATENTED IN BRITAIN AND ABROAD)
SOLE LICENCEES AND MANUFACTURERS
SWINNEY BROS LTD
ENGINEERS AND IRONFOUNDERS
WANSBECK IRON WORKS
OIL BURNING INSTALLATIONS DEPARTMENT
MORPETH, NORTHUMBERLAND
ENGLAND



Pipe No.	Size	Material	Description	Supplied by
F1004	-	-	OIL BURNING DUPLICATE UNIT INSTALLATION	SWINNEY BROS
F1005	2"	C.I.	Supply Valves FUEL PUMP SUCTIONS (HIGH) FROM CROSS BUNKER	SWINNEY BROS
F1006	2"	"	TEE PIECES	"
F1007	2"	"	Supply Valve	"
F1008	2"	"	Valves	"
F1009	2"	"	TEE PIECE	"
F1010	2"	"	CROSSPIECE	"
F1011	2"	"	TEE PIECE	"
F1012	2"	"	Supply Valves	"
F1013	2"	"	S.O.N.R. Hand Valve	"
F1014	2"	"	STEAM BOX	SWINNEY BROS
F1015	-	"	Hand Pump for Lighting up Purposes	"
F1016	1"	G.I.	Globe Valve Hand Pump Suction from Suction Filter	"
F1017	1 1/4"	C.I.	Suction Filter	"
F1018	3/4"	G.I.	Non Return Valve Oil Circulating from Boiler Pumps to Suction Filter	"
F1019	1"	"	Globe Valves Steam to Heating Grids	EXISTING
F1020	1"	"	TEE PIECE	"
F1021	1"	"	Globe Valves Drain from	"
F1022	1"	"	TEE PIECE	"
F1023	3/4"	C.I.	STEAM TRAP	SWINNEY BROS
F1024	3/4"	C.I.	Change Cock 3 way 3 ports C.B. STEAM TRAP BYPASS	"
F1025	-	"	TEEPIECE DRAINING FROM CROSS BUNKER TO EXISTING OBSERVATION TANK	EXISTING SWINNEY BROS
F1026	1"	C.I.	CHANGE COCK 3 way 3 ports C.B. DRAIN TO OIL OR HOTWELL	"
F1027	-	"	BRASS PIPE STEAM TO BOILER FOR EXTINGUISHING PIPES & HEATING COLS	BRASS PIPE
F1028	1"	"	GLOBE VALVE STEAM TO PLANT	"
F1029	1"	"	STEAM FIRE EXTINGUISHING PIPES	"
F1030	1"	"	CHANGE COCK DELIVERY FROM UNIT VALVE CHEST TO DECK OR OVERBOARD	"
F1031	-	"	S.O.N.R. VALVE PUMPS DELIVERY OVERBOARD	"
F1032	-	"	SAND BOX	"
F1033	2"	C.I.	TEEPIECE FUEL PUMP SUCTION (LOW) FROM AFT COFFERDAM	"

Pipe No.	Size	Material	Description	Supplied by
P1034	-	-	COMPLETE PIPES ON UNIT	SWINNEY BROS
P1035	1 1/2"	STEEL	FUEL PUMP SUCTION PIPES	BRASS PIPE
P1036	1 1/2"	"	"	"
P1037	1 1/2"	"	"	"
P1038	2"	"	"	"
P1039	2"	"	"	"
P1040	2"	"	"	"
P1041	2"	"	"	"
P1042	2"	"	"	"
P1043	2"	"	"	"
P1044	2"	"	"	"
P1045	2"	"	"	"
P1046	2"	"	"	"
P1047	2"	"	"	"
P1048	2"	"	"	"
P1049	2"	"	"	"
P1050	2"	"	"	"
P1051	2"	"	"	"
P1052	2"	"	"	"
P1053	2"	"	"	"
P1054	2"	"	"	"
P1055	2"	"	"	"
P1056	2"	"	"	"
P1057	2"	"	"	"
P1058	2"	"	"	"
P1059	2"	"	"	"
P1060	2"	"	"	"
P1061	2"	"	"	"
P1062	2"	"	"	"
P1063	2"	"	"	"
P1064	2"	"	"	"
P1065	2"	"	"	"
P1066	2"	"	"	"
P1067	2"	"	"	"
P1068	2"	"	"	"
P1069	2"	"	"	"
P1070	2"	"	"	"
P1071	2"	"	"	"
P1072	2"	"	"	"
P1073	2"	"	"	"
P1074	2"	"	"	"
P1075	2"	"	"	"
P1076	2"	"	"	"
P1077	2"	"	"	"
P1078	2"	"	"	"
P1079	2"	"	"	"
P1080	2"	"	"	"
P1081	2"	"	"	"
P1082	2"	"	"	"
P1083	2"	"	"	"
P1084	2"	"	"	"
P1085	2"	"	"	"
P1086	2"	"	"	"
P1087	2"	"	"	"
P1088	2"	"	"	"
P1089	2"	"	"	"
P1090	2"	"	"	"
P1091	2"	"	"	"
P1092	2"	"	"	"
P1093	2"	"	"	"
P1094	2"	"	"	"
P1095	2"	"	"	"
P1096	2"	"	"	"
P1097	2"	"	"	"
P1098	2"	"	"	"
P1099	2"	"	"	"
P1100	2"	"	"	"

- NOTES
- FLASH POINT OF FUEL OIL TO BE ABOVE 150° FAN
 - SOUNDING PIPES TO OIL FUEL BUNKERS TO BE LED TO DECK
 - AIR PIPES FROM ALL OIL FUEL TANKS TO BE ARRANGED TO DISCHARGE INTO OPEN ABOVE UPPER DECK WITH WIRE GAUZE FITTED AT OUTLET
 - SUCTION VALVES ON CROSS BUNKER & COFFERDAM AND STEAM VALVES CONTROLLING SERVICE PUMPS & HEATERS AND STEAM TO FIRE EXTINGUISHING PIPES TO HAVE ROPS LED TO DECK OUTSIDE OF MACHINERY SPACES IN CASE OF FIRE
 - STEAM FIRE EXTINGUISHING PIPES TO BE FITTED UNDER STROKEHOLD FLOOR PLATES
 - SAND BOX TO BE FITTED IN STROKEHOLD WITH SCOPES
 - WATER SERVICE PIPES & HORES TO BE FITTED FOR FLUSHING STROKEHOLD PLATES AND TANK TOPS UNDER BAULKERS
 - OIL PRESSURE PIPES TO BE OF GALV DOWN STEEL AND FITTED IN WELL LIGHTED POSITION
 - RAMP PLATFORM, FLANGES TO SUIT 200 LBS D WORKING PRESSURE
 - PRESSURE PIPES AND FITTINGS TO BE TESTED AFTER JOINTING TO 400 LBS D
 - THE PRESSURE TO BE RAISED AND LOWERED SLOWLY WHILE TESTING
 - OTHER OIL PIPES TO BE OF WELDED OR STEEL WITH FLANGES TO SUIT 100 LBS D WORKING PRESSURE AND TESTED AFTER JOINTING TO 30 LBS D
 - EXISTING BILGE OR BALLAST PIPES OF LEAD ARE BEING REPLACED BY WROUGHT IRON OR STEEL
 - SAFETY VALVES TO BE FITTED UNDER PUMPS, HEATERS & BURNERS TO PREVENT SPILLING OF OIL WHILE REMOVING COVERS ETC
 - FUNNEL DANGERS IF FITTED MUST BE LOCKED OPEN
 - OIL SUPPLY & CIRCULATING PIPES TO BE CARRIED CLEAR OF SMOKEBOX DOORS & CLEAR OF COLD AIR FROM VENTILATORS
 - ALL HOT OIL PIPES TO BE EFFICIENTLY LAGGED
 - THE REMAINING REQUIREMENTS OF LLOYD'S RULES SECTION N° 35. (1926-27) TO BE STRICTLY ADHERED TO

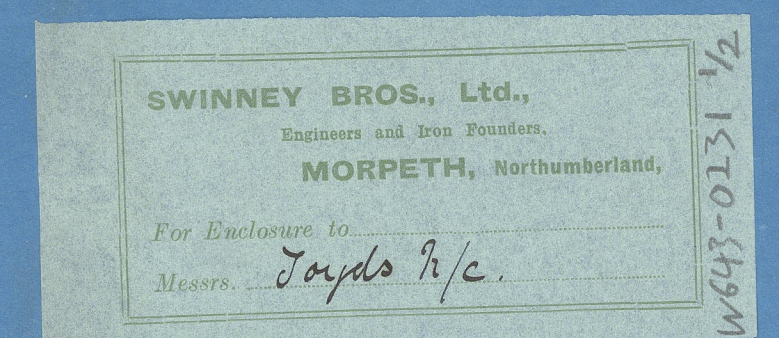
DIAGRAMMATIC ARR of OIL BURNING INSTALLATION

S.S. "MUSILLA"

CONTRACT N° 791

NOT TO SCALE

DRAWING N° 4598



Submitted to Lloyd's 4-4-28

For Particulars to Lloyd's 4-4-28

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SWINNEY BROS., Ltd.,

Engineers and Iron Founders,

MORPETH, Northumberland,

For Enclosure to

Messrs.

Torjels & Co.

W643-0131 1/2

S. S. MUSILLA

OIL FUEL INSTALLATION

LONDON OFFICE
COPY



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Lloyd's Register

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