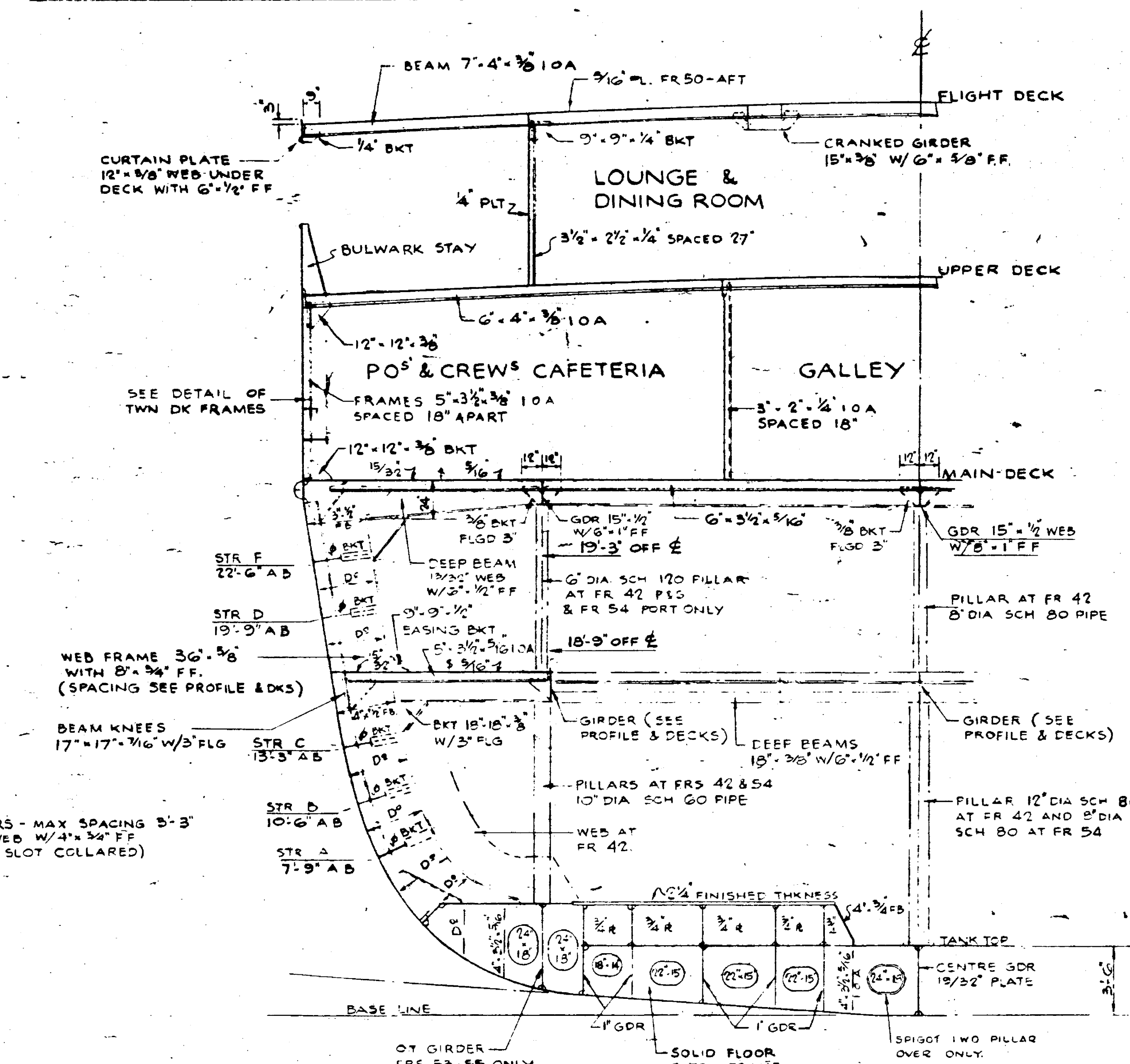


TWN DK FRAMES STRUCTURE

SECTION TWO PROPULSION  
MOTOR ROOM

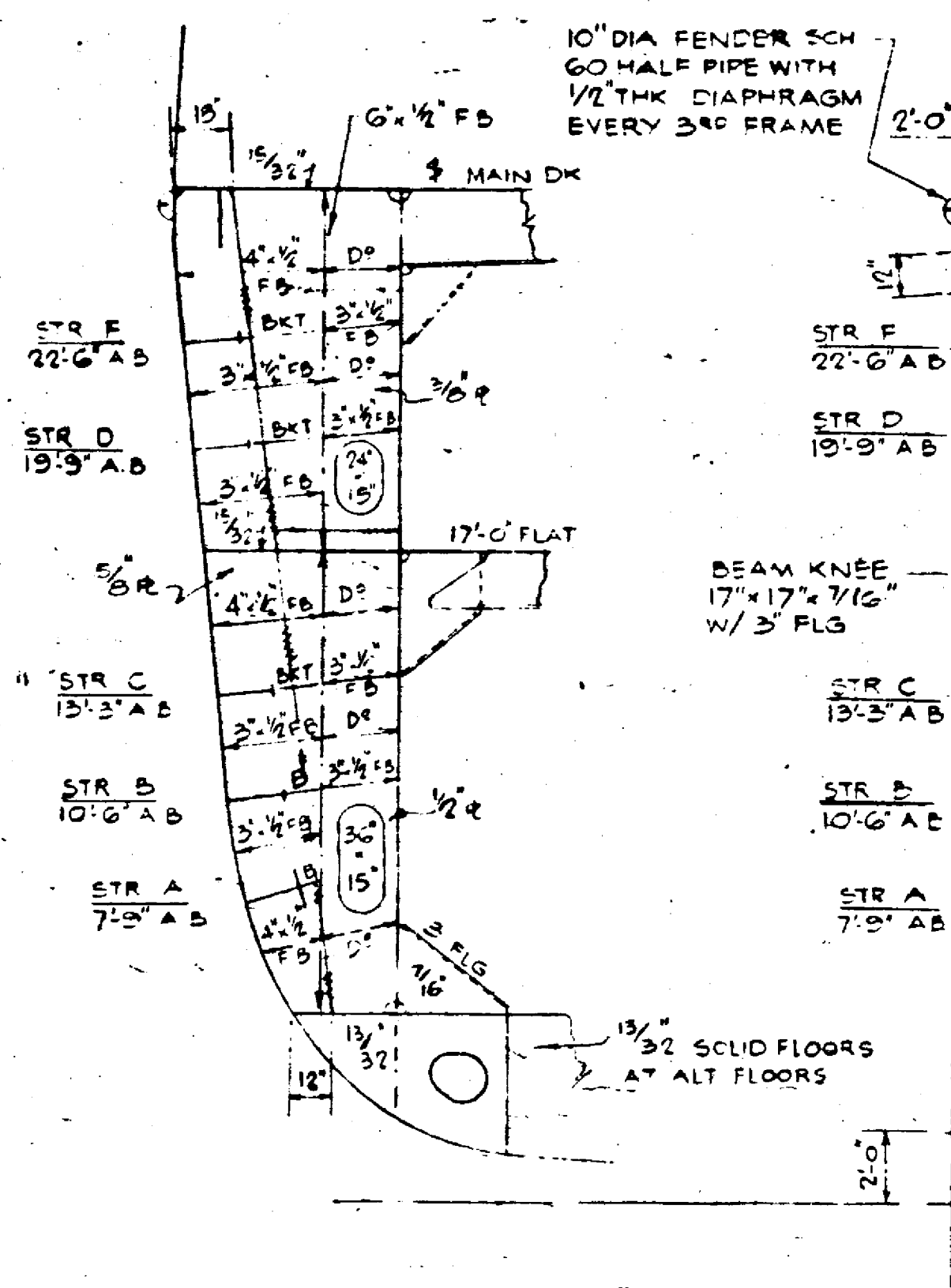
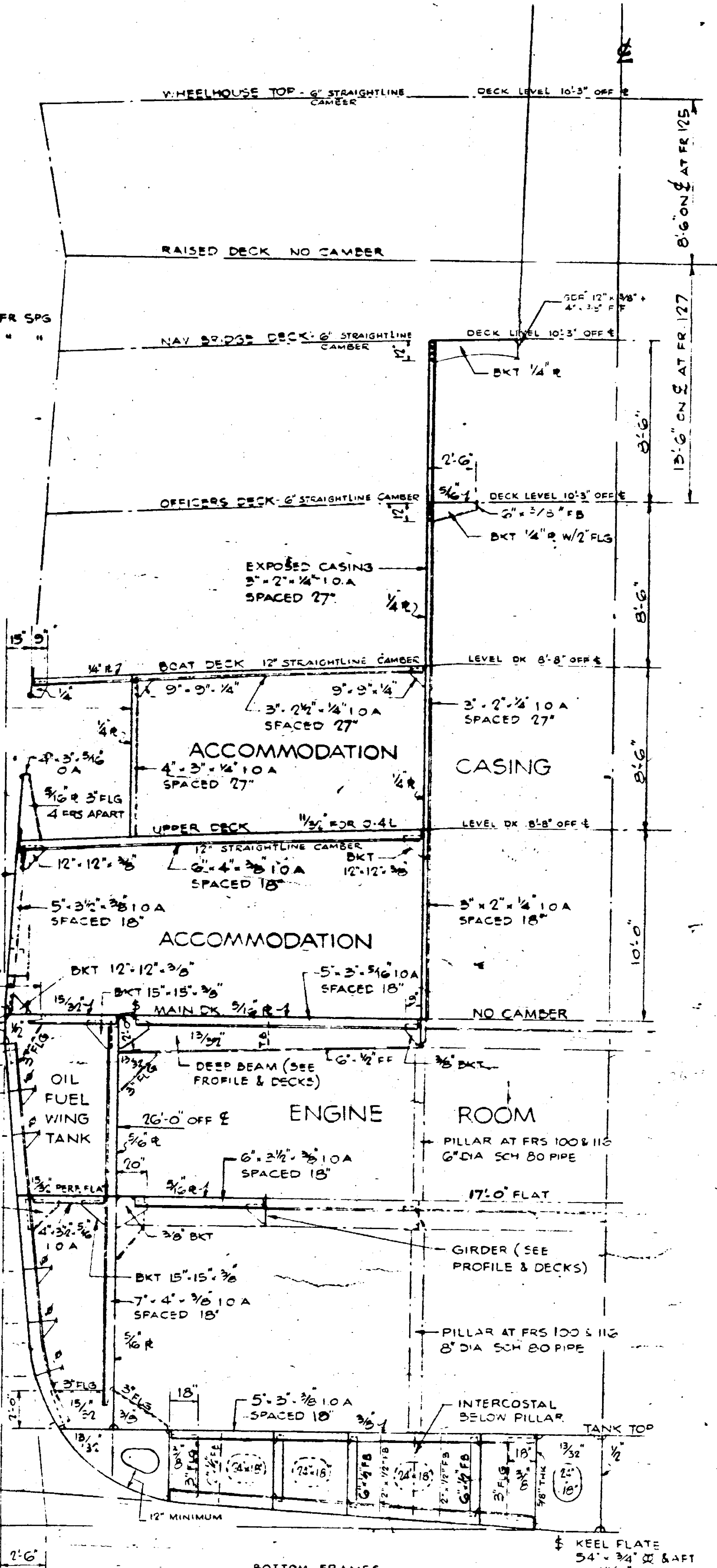
NOTE: SUPERSTRUCTURE ABOVE UPPER DK  
BEAM & STIFFER SPACING: 2'-0" TWO 16" MAIN FR SPS  
" 2'-5" " 18" " " "

OVERHANGING DECKS TO BE  
EFFICIENTLY SUPPORTED, DETAILS  
ON DWG NO. 68-H-40

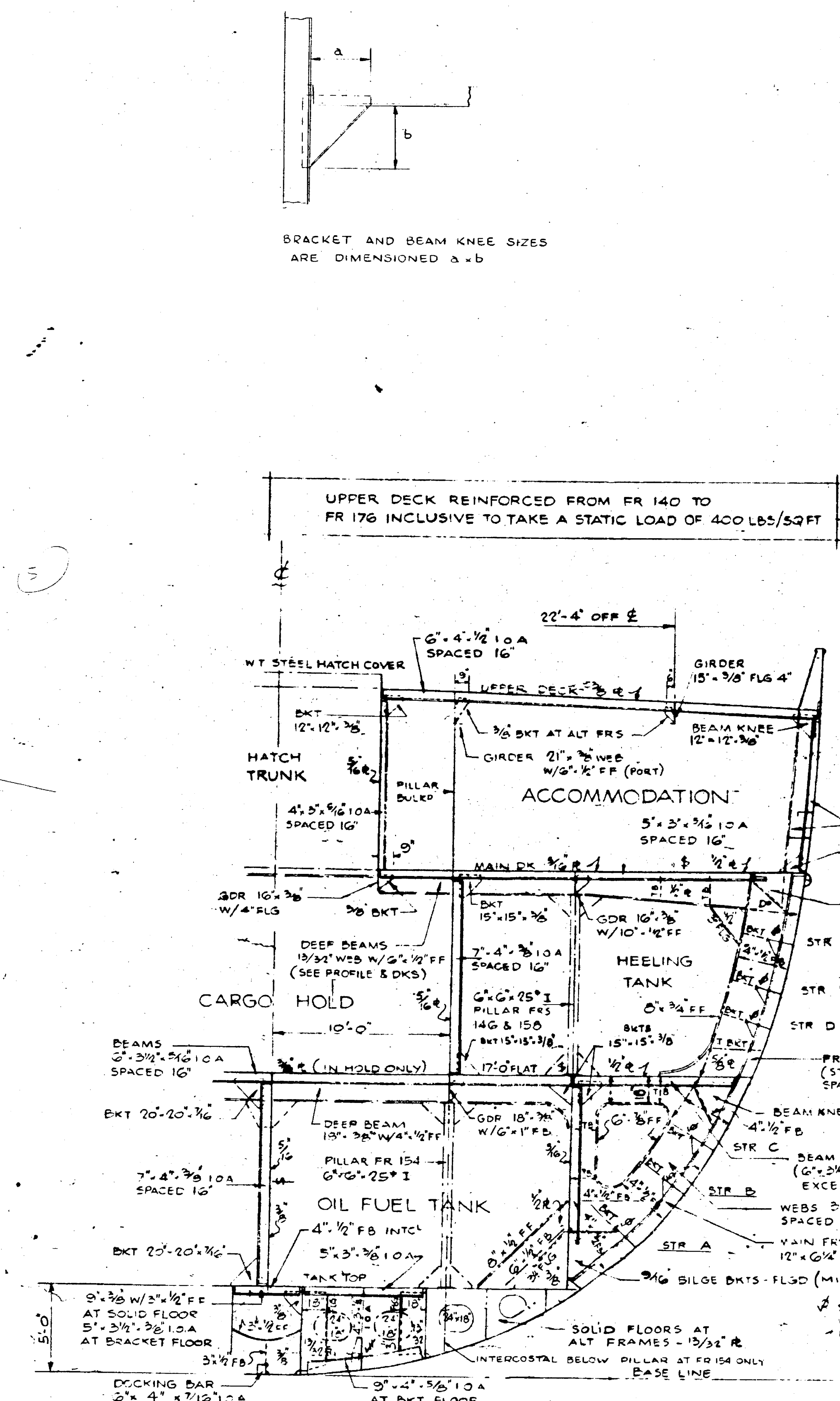
DECKHOUSE SIDE ADDITIONALLY  
STIFFENED BY WEB FRAMES &  
PARTIAL STEEL BULKHEADS SPACED  
ABOUT 20'-5" FT APART

FREEING PORT AREA APPROX 55 SQ FT PLS

SEE DETAIL OF  
TWN DK FRAMES

SECTION AT WEB  
TWO WING TANKS  
(SPACED 6'-0" APART)

MIDSHIP SECTION

SECTION IN WAY OF  
HEELING TANK

## PRINCIPAL PARTICULARS :-

LENGTH OA 322'-7 1/2"  
LENGTH ON SCANTLG. DRAFT (23'-9") 308'-2 1/4"  
L.B.P. 288'-10"  
BEAM (MLD) MAIN DECK 64'-0"  
DEPTH (MLD) UPPER DECK 35'-6"  
DRAFT (SCANTLING) 23'-9"  
Cb (SCANTLING DRAFT & RULE 'L') 0.638  
MLD. DISPLACEMENT (SW) @ d = 23'-6" - 8090 TONS  
RULE 'L' - 0.96 x 308-187 = 29586 FT.  
DRAFT (ARCTIC POLL. REG.) - 22'-3" MLD.  
DISPLACEMENT (ARCTIC POLL. REG. SW) - 7515 TONS

NOTE -  
UPPER DECK IS UPPERMOST CONTINUOUS DECK  
CLASS LLOYDS + 100A1 'ICEBREAKER'  
IN ADDITION TO MEET THE REQUIREMENTS OF  
ARCTIC SHIPPING POLLUTION PREVENTION  
REGULATIONS, FOR A VESSEL OF ARCTIC CLASS 3,  
THE OIL POLLUTION REGULATIONS & THE GARBAGE  
REGULATIONS.

EQUIPMENT -  
LETTER Z USED (LLOYDS+2) (RULE LETTER X)  
ANCHORS - 3 @ 7498 CWT'S EACH  
CABLE - 19 x 15 FATHOMS, 2" DIA. U3 GRADE  
FORGED STEEL & INTEGRAL STUDS.  
TOWLINE - 1500 FT. 12" DIA. 6 x 37 G.F.S.W.R. BS 96.7 S.TONS  
MOORING - 4 x 98 FATHOMS 1" DIA 6 x 37 G.F.S.W.R.  
BS 33.9 S.TONS  
MOORING - 4 x 98 FATHOMS 15/16" DIA POLY/NYLON.

MATERIAL -  
ALL SHELL PLATING BELOW MAIN DECK LLOYDS 'E'  
QUALITY.  
D' QUALITY BETWEEN MAIN & UPPER DECK.  
A' QUALITY ELSEWHERE.

UPPER DECK REINFORCED FROM FR 140 TO  
FR 176 INCLUSIVE TO TAKE A STATIC LOAD OF 400 LBS/SQ FT

TITLE: "AS FITTED"  
CONSTRUCTION SECTIONS

SCALE: 1/4" = 1 FOOT. DATE:

HULL 68  
"R" CLASS ICEBREAKER  
C.C.G.S. "DES GROSEILLIERS"

PORT WELLER DRY DOCKS  
A DIVISION OF UPPER LAKES SHIPPING LTD.