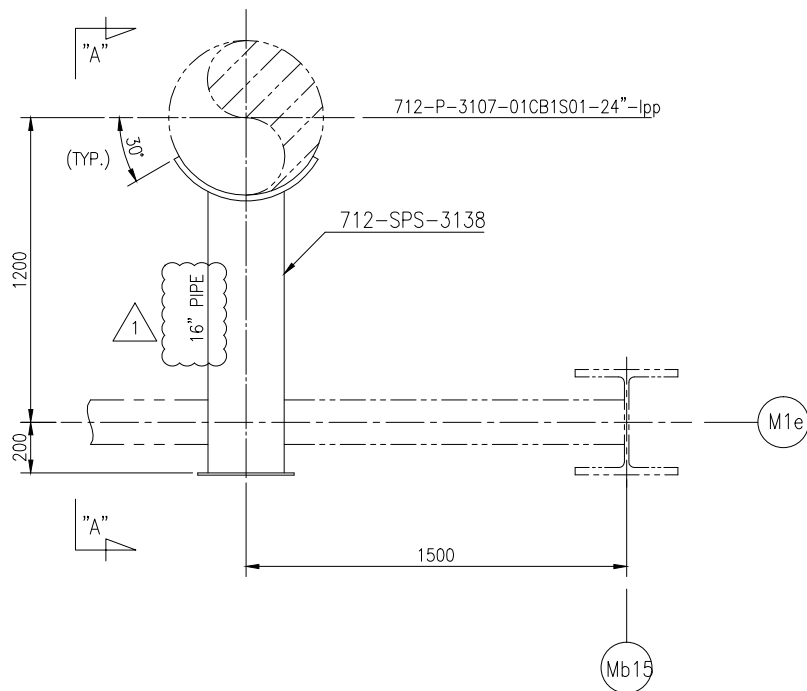
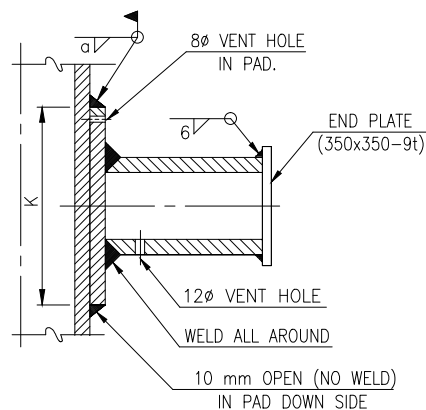


VIEW "A"



PLAN VIEW



DETAIL "B"

NOTES

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.

2. MATERIAL (ASTM)

PLATE : A36 or EQUIVALENT

3. THE MATERIAL OF TRUNNION PIPES AND PAD SHALL BE COMPATIBLE MAIN PIPE.

MAIN PIPE	PAD
LOW ALLOY (1.1/4 Cr ~ 9 Cr)	A335-P11 or The same as main pipe
S/S	A312-TP304L or The same as main pipe
C/S	A53-B or The same as main pipe
ALLOY 825	The same as main pipe

SUPPORT MATERIAL WHICH DIRECT CONTACT TO LTCS LINE SHALL USE LTCS MATERIAL

4. a : PIPE WALL THICKNESS BUT NOT LESS THAN 3mm.
K = TRUNNION SIZE x 2

5. VENT HOLE IS REQUIRED ONLY FOR TRUNNIONS WITH ENDPLATE. FOR TRUNNIONS WITH A ENDPLATE, HOLE MUST BE LOCATED AT MIN. DISTANCE FROM WELD POINT OF MAIN PIPE. IN ADDITION, WHERE PLATE IS REQUIRED FOR DUMMY, VENT HOLE MUST BE AT THE BOTTOM OF THE DUMMY TO ALLOW DRAINAGE.

6. WELDING OF ATTACHMENT SHOULD BE DONE WITHOUT DAMAGING HEADER PIPE.

7. TRUNNION PIPE AND PAD THICKNESS SHALL BE AS FOLLOWS.

MAIN PIPE	TRUNNION
BELOW STD	THE SAME AS MAIN PIPE
STD & OVER	STD

MFC PROJECT

GS Caltex Corporation
YEosu, KOREA

GS Engineering & Construction

TITLE: SPECIAL PIPE SUPPORT
(712-SPS-3138)

DRAWING No. 712-SPS-3138 PAGE 1 OF 1 REV. 1