

PIPELINE NUMBER DESCRIPTION

PIPE SIZE (NB)

MEDIA/UTILITY

PLANT NUMBER

INSULATION DETAILS

SPECIFICATION AS PER PMS

LINE NUMBER

- NOTES :-
1. FLANGE DIMENSIONS ARE AS PER ANSI B.16.5 ASA- 150#RF. EXCEPT FOR MATING FLANGES OF FINISHED ITEMS.

2. MATING FLANGES TO SUIT THE FINISHED ITEMS ACTUALLY USED.

3. RECOMMENDED SLOPE IS 2mm PER METRE LENGTH TOWARDS THE DIRECTION OF FLOW.

4. ALL ELEVATIONS MENTIONED IN THIS DRAWING ARE WITH RESPECT TO FINISHED FLOOR DATUM LEVEL AS ±0.00 AND OF TOS U.S.O.

5. ALL TAPPINGS ARE TO BE TAKEN TO SUIT AT SITE.

6. ALL DIMENSIONS ARE IN mm AND ARE APPROXIMATE, REQUIRED TO BE CHECKED AND VERIFIED AT THE TIME OF FABRICATION & ERECTION AT SITE.

7. ALL PIPELINES TO BE SUPPORTED SUITABLY AT SITE.

8. FOR DETAILS OF PIPE SUPPORT PLEASE REFER PIPING LAYOUT.

9. ITEMS MARKED BY DOTTED LINES ARE NOT INCLUDED IN BOQ.

10. PIPELINES TO BE HOT INSULATED AS PER INSULATION SPECIFICATION.

REFERENCE DRAWING'S

DRAWING NO.	DESCRIPTION
1.FM-BCPL-PL-001	P&ID CONDENSATE RECOVERY SYSTEM.
1.FM-BCPL-PL-001	PIPING LAYOUT.

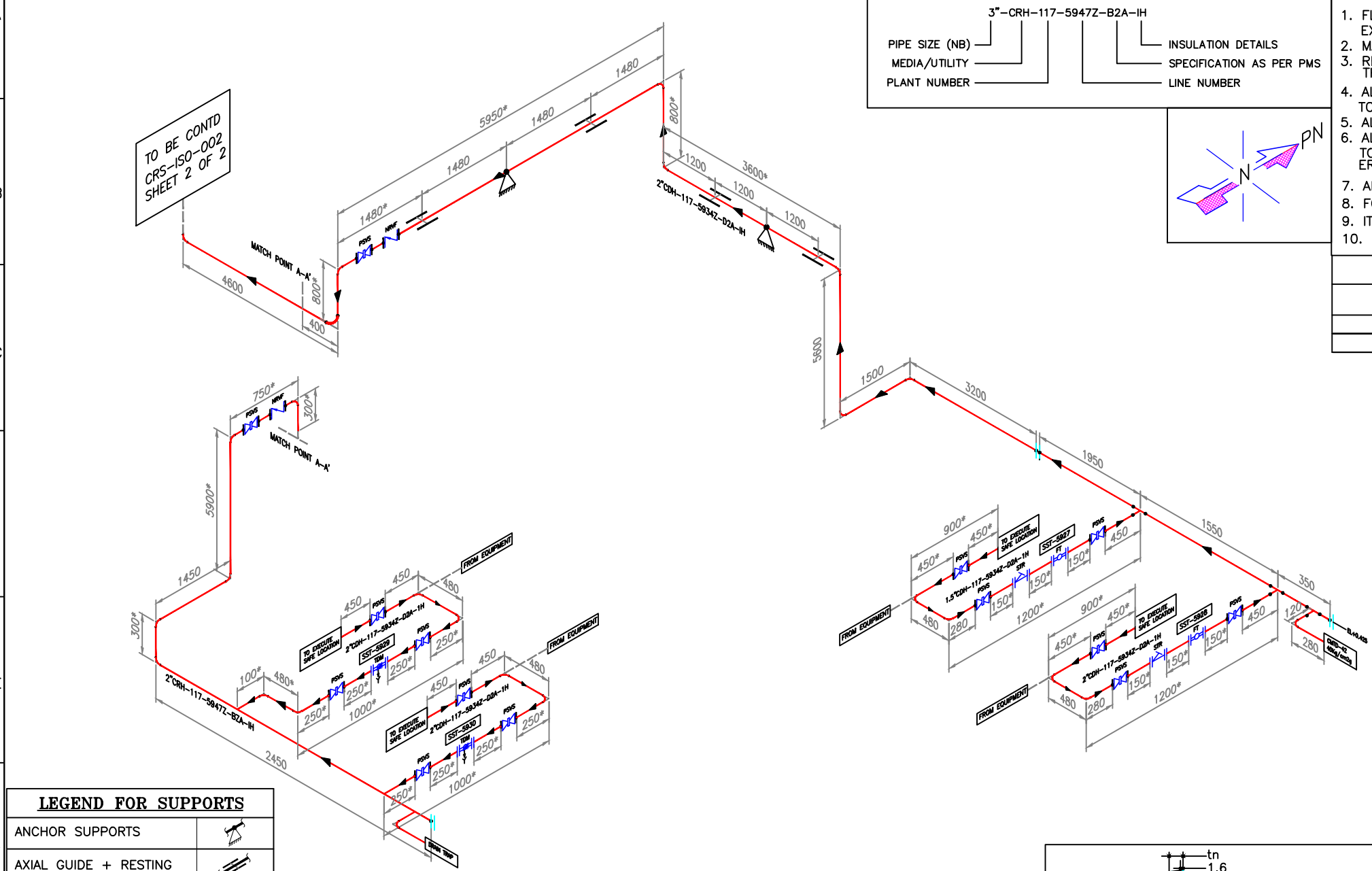
LEGEND

LEGEND	DESCRIPTION
	PSVF = PISTON VALVE FLANGED END
	FT=FLOW TRAP
	PSV = PISTON VALVE
	NRV = NON RETURN VALVE
	STR = 'Y' TYPE STRAINER
	PG=PRESSURE GAUGE
	TG=TEMPERATURE GAUGE
	INSULATION
	TDM=THERMODYNAMIC TRAP MODULE

CMTD-42

LINE LEGENDS

HP CONDENSATE LINE



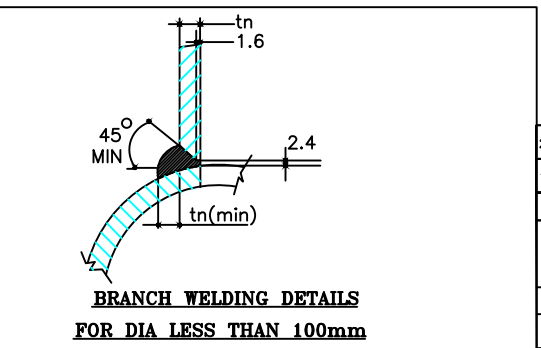
LEGEND FOR SUPPORTS

ANCHOR SUPPORTS	
AXIAL GUIDE + RESTING	

BILL OF MATERIAL FOR LLDPE PLANT

3"CRH-117-5947Z-B2A-IH

PIPE SIZE	PIPE LENGTH IN METERS	ELBOW 90°	FLANGE	BLIND FLANGE	GASKET	PISTON VALVE	STRAINER	FLOAT TRAP	THERMODYNAMIC TRAP MODULE
3/4"	0.12	1	-	-	-	-	-	-	-
1.5"	2.6	2	-	-	-	3	1	1	-
2"	56	22	4	2	6	9	3	1	2



T = THICKNESS OF PIPE

MIN 5mm RAD.

70°

70°

3

I.B.R. FIG.NO.- XII/89

INSULATION

STEAM MAIN

STITCH WELD

ANGLE CLEAT

TO PIPE RACK

STITCH WELD

M.S. TEE

TO PIPE

EXISTING PIPERACK

GS=GUIDE SUPPORT

(ONLY FOR INSULATED LINE)

INSULATION

STEAM MAIN

STITCH WELD

M.S. TEE

TO PIPE

EXISTING PIPERACK

AS=ANCHOR SUPPORT

(FIXED SUPPORT)

PIPE TO PIPE

BUTT WELDING DETAILS

0.6 TO 2.3

35-40 DEG

1.5 TO 4 mm

FLANGE WELDING DETAIL

B = T

E = 1 1/2 T BUT NOT LESS THAN 5 mm.

F = 1.6 mm.

12.0 APPLX BEFORE WELDING

1/8" MIN - 1.08 IN (NOALPIPE WALL THICK) OR THICK OF FLANGE

JOIN BRANCHES IS SMALLER FOR 1.5 TO 4.00 IN & WELDER PER 84.1

3MIN.

20°

1

2

RATIO OF DIA. 1:1

15°

1

2

RATIO OF DIA. <2/3

20°

1

2

RATIO OF DIA. >2/3

3MIN.

60°

1

2

LONGITUDINAL SECTION

(DETAILS OF BRANCH WELDING)

IBR APPROVAL

20.04.2023	R1	FOR APPROVAL	CG	CS	V.C	S.P
17.03.2023	0	FOR APPROVAL	OS	CS	V.C	S.P
DATE	ISSUE	REVISION	ALT.	CHD.	APPD.	C.APPD.

OWNER

BRAHMAPUTRA CRACKER AND POLYMER LIMITED

PLANT

EXTRUDER PACKAGE UNIT-LLDPE PLANT

LOCATION

M/S BRAHMAPUTRA CRACKER AND POLYMER LIMITED
LEPETKATA-786006,DIBRUGARH,ASSAM-786006,INDIA

PO ORDER NO.

GEMC-511687706540812

DRAWN	CG	18.05.2023	SCALE	SHEET	REVISION
CHD.	CS	18.05.2023	NTS	1 OF 2	R0
APPD.	V.C	18.05.2023	DRG.NO.	FM/BCPL-LLDPE-CRS-PL-002 (2"CDH-117-5934Z-D2A-IH)	
C.APPD.	S.P	18.05.2023			

DESIGNER

TITLE :-

PIPING & ISOMETRIC
FOR CONDENSATE RECOVERY SYSTEM

5th FOLD.

4th FOLD.

3rd FOLD.

2nd FOLD.

1st FOLD.

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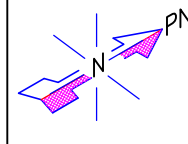
IF IN DOUBT, PLEASE ASK. DO NOT SCALE THE DRG.

WHERE USED :-

SUB. ASSLY.:-

CAT.

PART CODE NO.



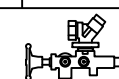
NOTES :-

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10. PIPELINES TO BE HOT INSULATED AS PER INSULATION SPECIFICATION.

REFERENCE DRAWING'S

DRAWING NO.	DESCRIPTION
1.C.840.PL3.01	P&ID CONDENSATE RECOVERY SYSTEM.
1.C.840.PL3.01	PIPING LAYOUT.

LEGEND	DESCRIPTION
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	FT=FLOW TRAP
	PSV = PISTON VALVE
	NRV = NON RETURN VALVE
	STR = 'Y' TYPE STRAINER
	PG=PRESSURE GAUGE
	TG=TEMPERATURE GAUGE
	INSULATION
	TDM=THERMODYNAMIC TRAP MODULE



CMTD-42

PIPELINE NUMBER DESCRIPTION

PIPE SIZE (NB)	3"-CRH-117-5947Z-B2A-IH	INSULATION DETAILS
MEDIA/UTILITY		SPECIFICATION AS PER PMS
PLANT NUMBER		LINE NUMBER

BILL OF MATERIAL FOR LLDPE PLANT

3"CRH-117-5947Z-B2A-IH

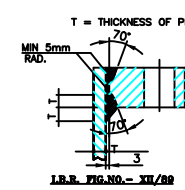
PIPE SIZE	PIPE LENGTH IN METERS	ELBOW 90°	FLANGE	BLIND FLANGE	PISTON VALVE SOCKET END	STRAINER	FLOAT TRAP	TEMPERATURE GAUGE	PRESSURE GAUGE	NON RETUNE VALVE
3"	-	-	-	-	-	-	-	-	-	-
1.5	-	-	-	-	-	-	-	-	-	-
2	247.4	36	-	-	2	-	-	-	-	-

LINE LEGENDS

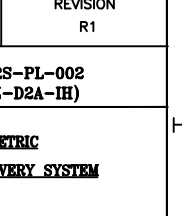
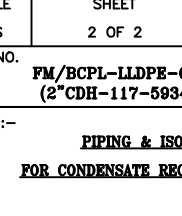
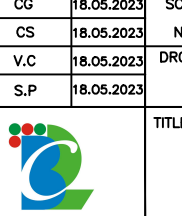
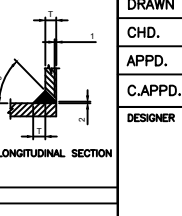
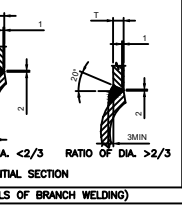
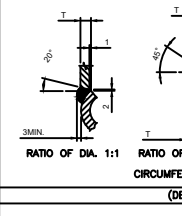
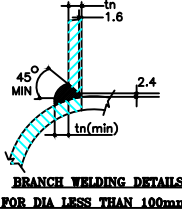
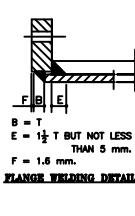
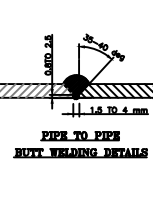
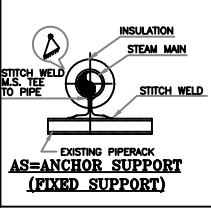
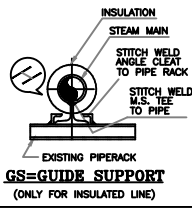
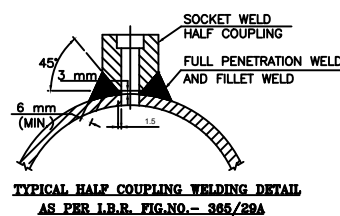
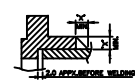
HP CONDENSATE LINE

LEGEND FOR SUPPORTS

ANCHOR SUPPORTS	
AXIAL GUIDE + RESTING	



I.B.R. FIG.NO.- XII/08



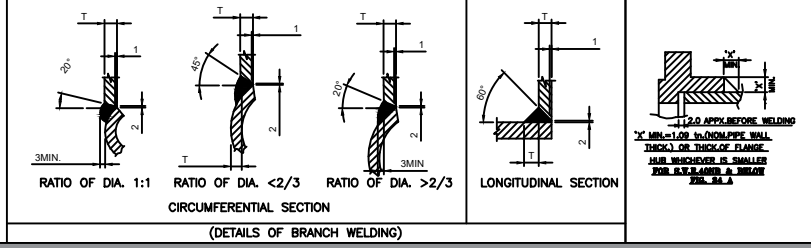
20.04.2023	R1	FOR APPROVAL		CG	CS	V.C	S.P
17.03.2023	0	FOR APPROVAL		OS	CS	V.C	S.P
DATE	ISSUE	REVISION		ALT.	CHD.	APPD.	C.APPD.
OWNER	 BRAHMAPUTRA CRACKER AND POLYMER LIMITED						
PLANT	EXTRUDER PACKAGE UNIT-LLDPE PLANT						
LOCATION	M/S BRAHMAPUTRA CRACKER AND POLYMER LIMITED LEPETKATA-786006,DIBRUGARH,ASSAM-786006,INDIA						
PO ORDER NO.	GEMC-511687706540812						
DRAWN	CG	18.05.2023	SCALE	SHEET		REVISION	
CHD.	CS	18.05.2023	NTS	2 OF 2		R1	
APPD.	V.C	18.05.2023	DRG.NO.				
C.APPD.	S.P	18.05.2023	FM/BCPL-LLDPE-CRS-PL-002 (2"CDH-117-5934Z-D2A-IH)				
DESIGNER			TITLE :- <u>PIPING & ISOMETRIC</u> <u>FOR CONDENSATE RECOVERY SYSTEM</u>				



NOTES :-

- ### REFERENCE DRAWING'S

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3"CRH-117-5947Z-B2A-IH



$B = T$
 $E = \frac{1}{2} T$ BUT NOT LESS THAN 5 mm.
 $F = 1.6 \text{ mm.}$

FLANGE WELDING DETAIL.

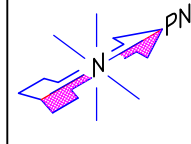
LEGEND FOR SUPPORTS

I.B.R. FIG.NO.- XII/69

20.04.2023	R1	FOR APPROVAL	CG	CS	V.C	S.P
17.03.2023	0	FOR APPROVAL	OS	CS	V.C	S.P
DATE	ISSUE	REVISION	ALT.	CHD.	APPD.	C.APPD.
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PO ORDER NO.		GEMC-511687706540812				

DESIGNER 	TITLE :- <u>PIPING & ISOMETRIC</u> <u>FOR CONDENSATE RECOVERY SYSTEM</u>
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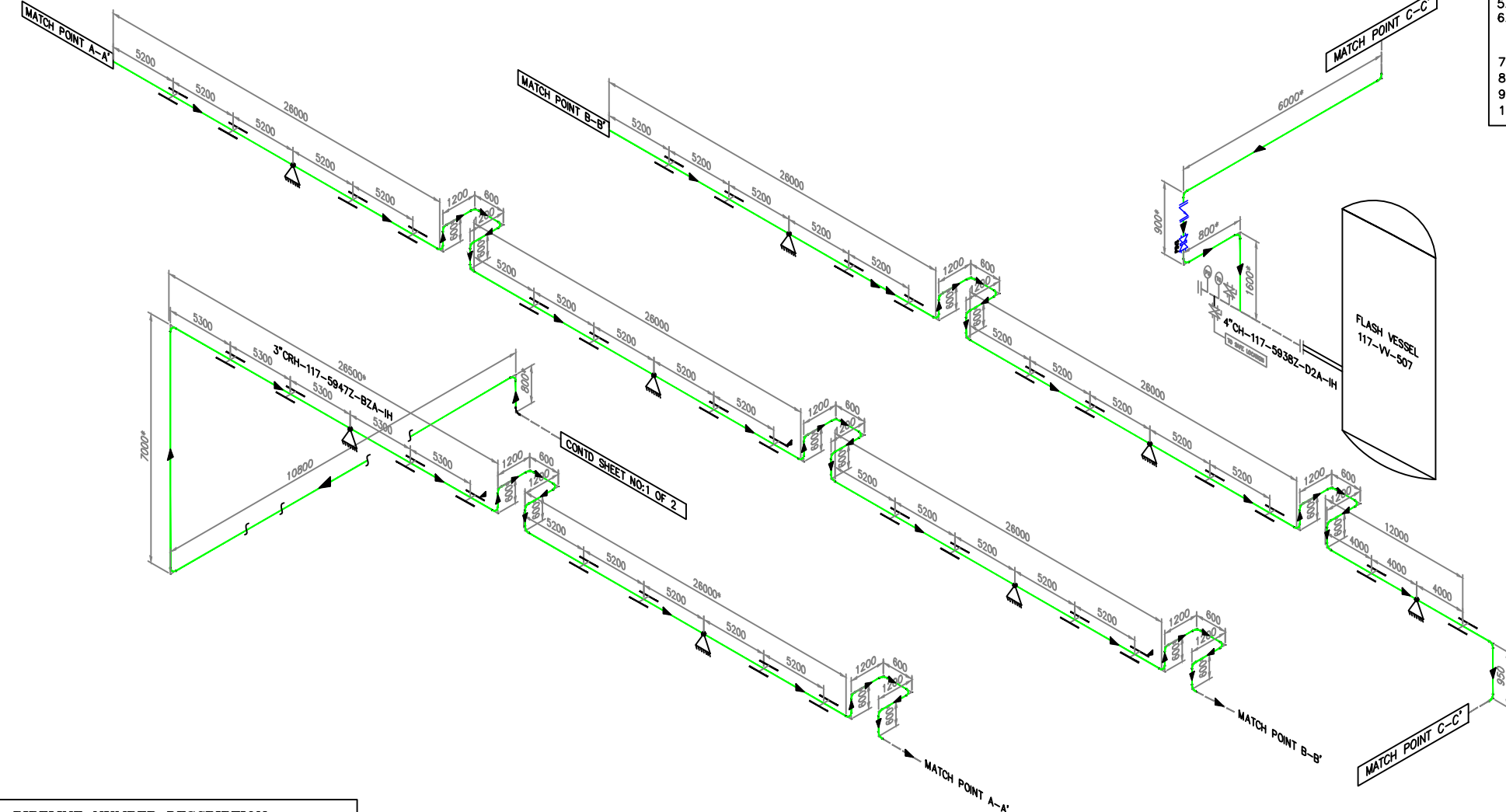
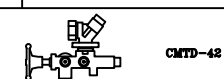


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MEDIA/UTILITY		SPECIFICATION AS PER PMS
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3"CRH-117-5947Z-B2A-IH

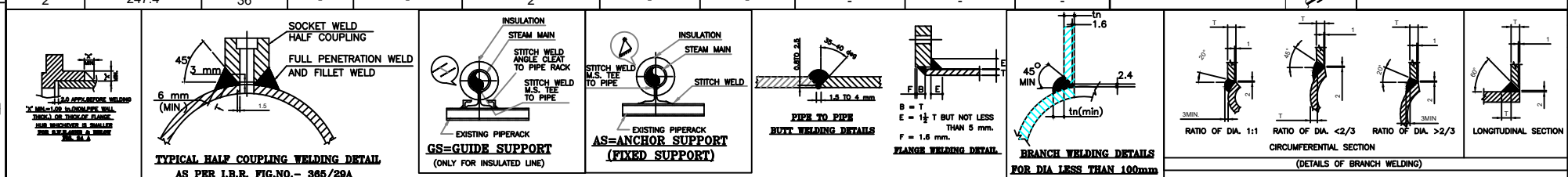
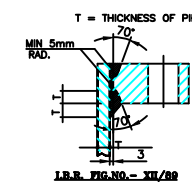
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3"	-	-	-	-	-	-	-	-	-	-
1.5"	-	-	-	-	-	-	-	-	-	-
2"	247.4	36	-	-	2	-	-	-	-	-

LINE LEGENDS

LP CONDENSATE LINE

LEGEND FOR SUPPORTS

ANCHOR SUPPORTS	
AXIAL GUIDE + RESTING	



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DATE	ISSUE	REVISION	ALT.	CHD.	APPD.	C.APPD.
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CHD.	CS	18.05.2023	NTS	2 OF 2		R1
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C.APPD.	S.P	18.05.2023	TITLE :-	PIPING & ISOMETRIC FOR CONDENSATE RECOVERY SYSTEM		
DESIGNER						

- NOTES
- ALL CONDENSATE PIPING LINES SHOULD BE PROVIDE A SLOPE OF 2mm/meter LENGTH TOWARDS THE DIRECTION OF FLOW.
 - ALL DIMNS ARE IN mm & ARE APPROXIMATE,REQD.TO BE CHECKED & VERIFIED AT THE TIME OF FABRICATION & ERECTION AT SITE.
 - ALL COND.LINES TO BE HOT INSULATED AS PER EIL STANDARD. DISTANCE BETWEEN TWO ADJACENT SUPPORT IS 4 Mtrs.MAX.
 - DCV'S TO BE PROVIDED TO ALL TRAP OUTLETS IN A CLOSED LOOP SYSTEM.
 - SUITABLE FLANGE JOINTS TO BE PROVIDED AS REQUIRED AT SITE. QTY OF THE SAME CAN BE WORKED OUT AT ACTUAL AS REQUIRED DURING FABRICATION.
 - REFERENCE P&ID DRAWING FM/BCPL-LLDPE-CRS-P&ID-001

- LEGENDS
- HP CONDENSATE LINE 40Kg/cm2g
 - LP CONDENSATE LINE 20Kg/cm2g
 - EXIST LINE

EXPANSION LOOP					
DIMENSIONAL DETAILS OF EXPANSION BEND WITH DRAIN POCKET					
NB.OF EXP BEND	ALL DIMENSIONS ARE IN MM				
	A	B	C	R	
	80	1100	1200	600	114
50	700	800	400	76	

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C.APPD.	S.P	17.04.2023			

DESIGNER	TITLE :-				
	PIPING & EQUIPMENT LAYOUT FOR CONDENSATE RECOVERY SYSTEM				

