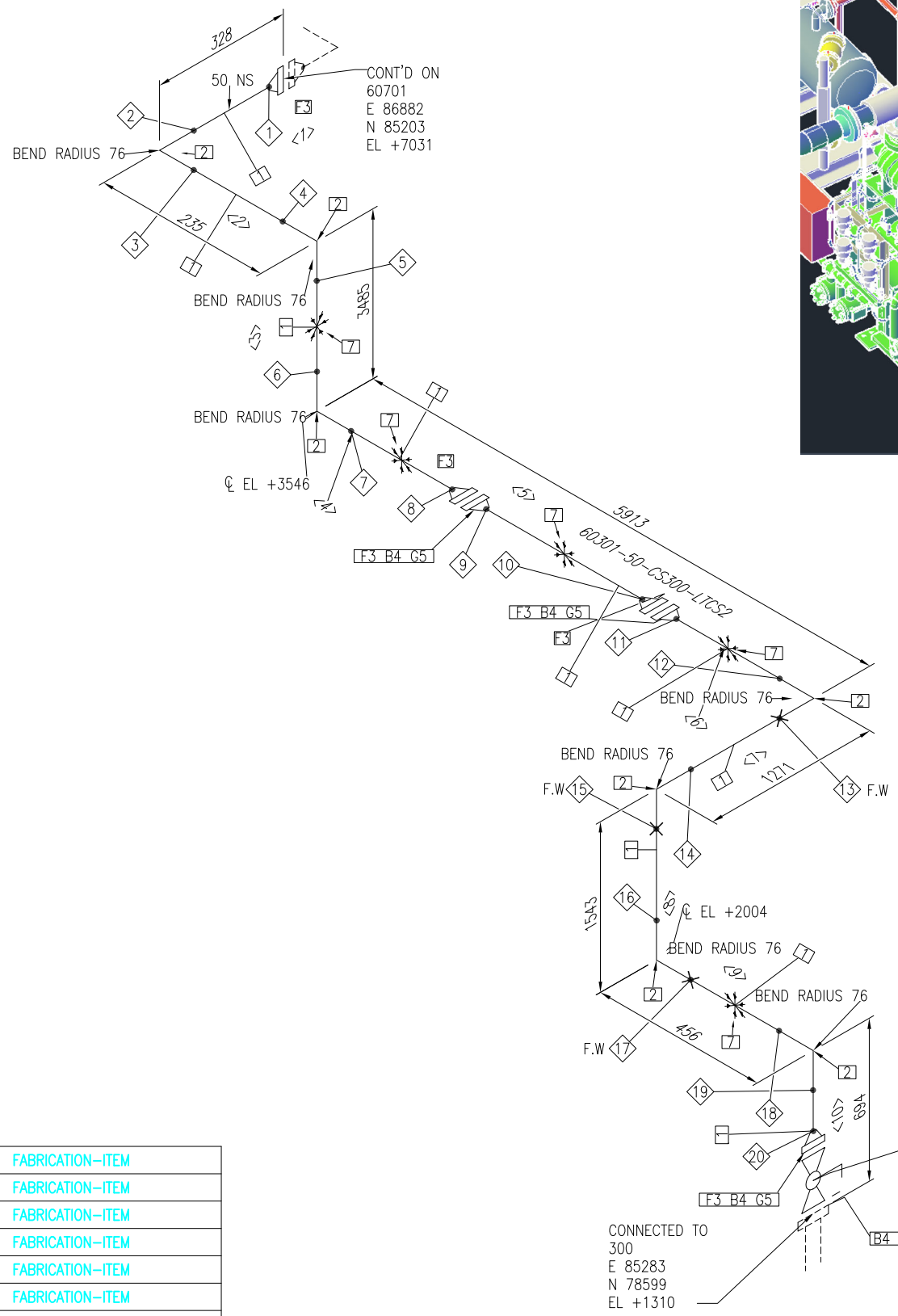

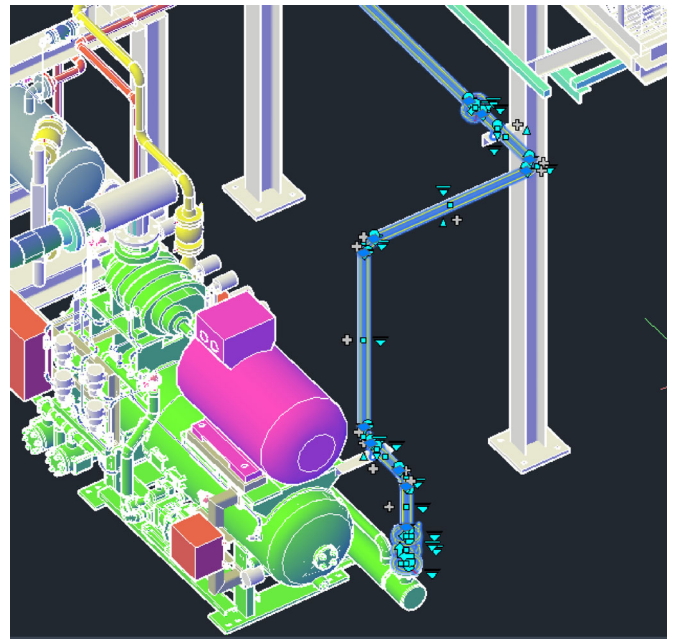

BILL OF MATERIALS

ID	QTY	ND	SCH/CLASS	DESCRIPTION
		PIPE		
1	12.3M	50	80	PIPE, SEAMLESS, SCH80, PE, ASME B36.10, ASTM A333 GR 6
		FITTINGS		
2	7	50	80	ELBOW 90 LR, SCH 80, BW, ASME B16.9, ASTM A420 GR WPL6
		FLANGES		
3	6	50	80	FLANGE WN, SCH 80, 300 LB, RF, ASME B16.5, ASTM A350 GR LF2
		FASTENERS		
4	32	16X89	300	BOLT SET, RF, 300 LB, STUD BOLT
5	4	50	300	GASKET, SWG, 1/8" THK, RF, 300 LB, ASME B16.20, CS/GRAPHITE
		VALVES		
6	1	50	300	BALL VALVE, LONG PATTERN, 300 LB, RF, ASME B16.10, ASTM A350 GRLF2
		PIPE SUPPORTS		
7	5	50		U-CLAMP

CUT PIECE LIST

ID	LENGTH	ND	END1	END2
1	182MM	50	BEVEL	BEVEL
2	83MM	50	BEVEL	BEVEL
3	3333MM	50	BEVEL	BEVEL
4	250MM	50	BEVEL	BEVEL
5	4714MM	50	BEVEL	BEVEL
6	513MM	50	BEVEL	BEVEL
7	1119MM+200MM=1319MM	50	BEVEL	BEVEL
8	1391MM+200MM=1591MM	50	BEVEL	BEVEL
9	304MM+200MM=504MM	50	BEVEL	BEVEL
10	326MM	50	BEVEL	BEVEL

NOTES:
1. ALL TAPPED BRANCHES TO INCLUDE TWO (2) GUSSETS LOCATED 90 DEGREES APART.
2. ALL SUPPORT WELDS SHALL BE CONTINUOUSLY WELDED.
3. MATERIAL TEST REPORTS ARE REQUIRED.
4. CHARPY IMPACT TESTS FOR LOW TEMP. MATERIALS ARE REQUIRED FROM EITHER THE MANUFACTURER OR FABRICATOR.
5. 5% RADIOGRAPHIC EXAMINATION IS REQUIRED FOR EACH WELDER.
6. WELDER LOG SHALL BE PROVIDED FOR INSPECTION.
7. SQUARENESS OF ALL JOINTS SHALL FOLLOW TOLERANCE ALLOWABLE LIMITS.
8. F.W= FIELD WELD

WELD LIST

ID	ND	TYPE	CATEGORY
15	50	BUTTWELD	FABRICATION-ITEM
14	50	BUTTWELD	FABRICATION-ITEM
13	50	BUTTWELD	FABRICATION-ITEM
12	50	BUTTWELD	FABRICATION-ITEM
11	50	BUTTWELD	FABRICATION-ITEM
10	50	BUTTWELD	FABRICATION-ITEM
9	50	BUTTWELD	FABRICATION-ITEM
8	50	BUTTWELD	FABRICATION-ITEM
7	50	BUTTWELD	FABRICATION-ITEM
6	50	BUTTWELD	FABRICATION-ITEM
5	50	BUTTWELD	FABRICATION-ITEM
4	50	BUTTWELD	FABRICATION-ITEM
3	50	BUTTWELD	FABRICATION-ITEM
2	50	BUTTWELD	FABRICATION-ITEM
1	50	BUTTWELD	FABRICATION-ITEM

REV.	DESCRIPTION	DATE	DRAWN	CHKD	APPD
0		08/22/24			
1		10/30/24			

SERVICE	
PIPE SPEC	
MAX PRESSURE	
MAX TEMPERATURE	
P&ID DWG	
INSULATION SPEC	
INSULATION THK	

PROJECT NAME: MPE007

TITLE:

DRAWING NUMBER: 60301

LINE NO:	AREA:	UNIT:	TYPE:
60301			

JOB NUMBER:	SCALE:	SHEET:	REV.
	N.T.S.	1 OF 1	1

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