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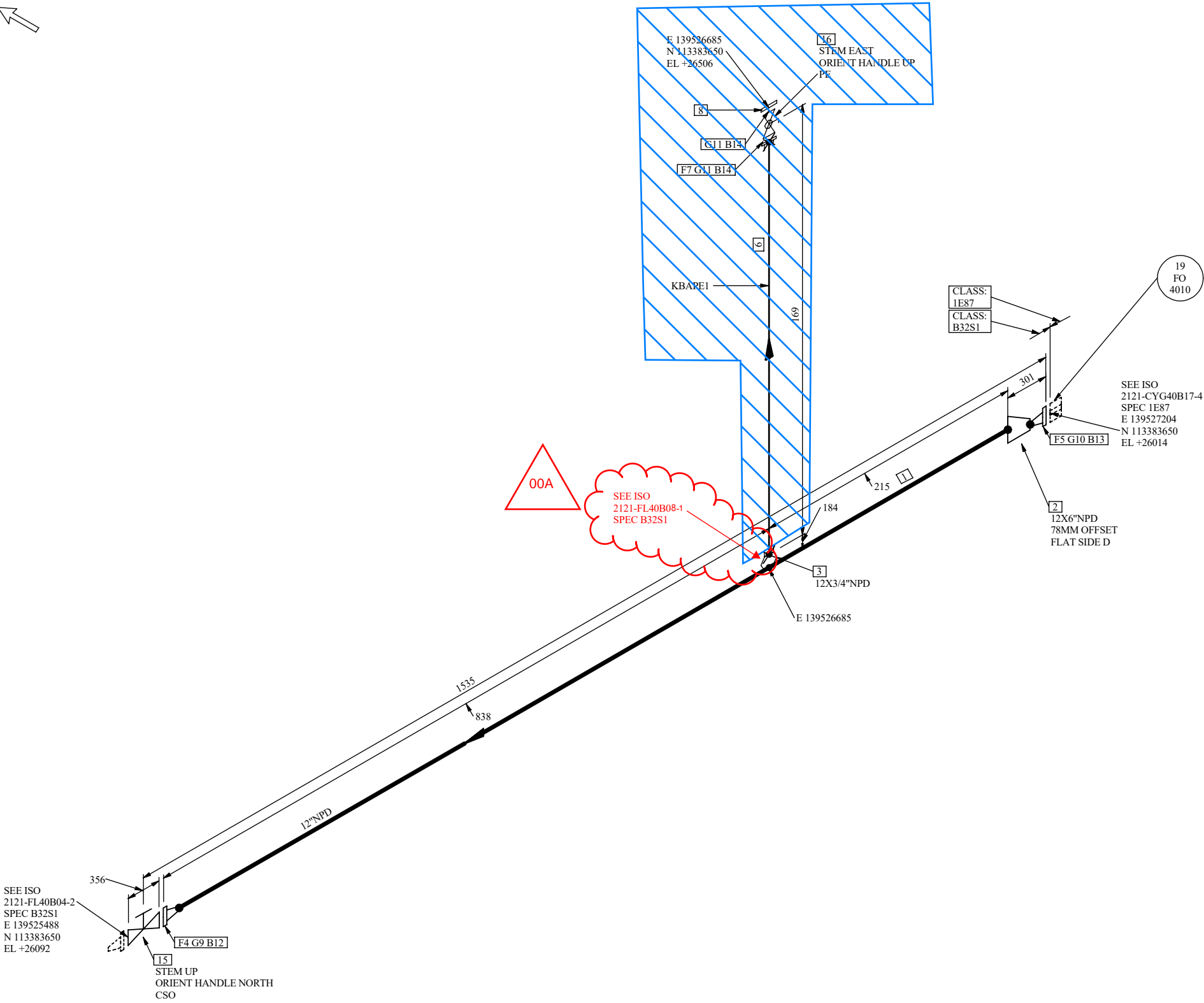
EXTR. DATE: 27-01-2023 09:39:20

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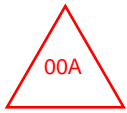
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
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BILL OF MATERIAL					
PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY	HOLD STATUS
PIPE					
1	PIPE - A333-6 BE SMLS T01AC22V02 S-20 <PIPL020B11220> (L-8200).	12	I146163	1.0 M	
FITTINGS					
2	ECCENTRIC REDUCER ASME B16.9 A420-WPL6 BE SMLS C22DC09V01 S-20 S-STD <EREL210F320101715> (L-8238).	12X6	I367941	1	
3	REDUCING SOCKOLET MSS-SP-97 3000# A350-LF2 Class 1 BE SWE - R13DNC07V101 NREQD <SOKL300LB02011> (L-7906).	12X3/4	I368127	1	
FLANGES					
4	WN FLANGE ASME B16.5 150# A350-LF2 Class 1 RFFE BE 125 - 250 AARH F01CDC07BV05 S-20 <WNFL300R151220> (L-7971).	12	I140719	1	
5	WN FLANGE ASME B16.5 300# A350-LF2 Class 1 RFFE BE 125 - 250 AARH F01CFC07BV05 S-STD <WNFL300R356STD> (L-7981)	6	I219625	1	
PIPE					
6	PIPE - A333-6 PE SMLS T01AC22202 S-XS <PIPL020A154XS> (L-PIP01)	3/4	I146384	0.2 M	
FLANGES					
7	SW FLANGE ASME B16.5 150# A350-LF2 Class 1 RFFE SWE 125 - 250 AARH F02CDC07B105 S-XS <SWFL300R1534XS> (L-7970)	3/4	I820457	1	
8	BLIND FLANGE ASME B16.5 150# A350-LF2 Class 1 RFFE NREQD 125 - 250 AARH F10CDC07B005 <BLFL300R1534> (L-7972)	3/4	I560221	1	
GASKETS					
9	FLAT RING GASKET ASME B16.21 150# RFTBE NA/CARBON/NBR ASME B16.5 G02HDP2QS01 <NMGQ102R1F12> (L-NMG17) .	12	I1169073	1	
10	FLAT RING GASKET ASME B16.21 300# RFTBE NA/CARBON/NBR ASME B16.5 G02HFP2QS01 <NMGQ102R3F6> (L-NMG18)	6	I1169094	1	
11	FLAT RING GASKET ASME B16.21 150# RFTBE NA/CARBON/NBR ASME B16.5 G02HDP2QS01 <NMGQ102R1F34> (L-NMG17)	3/4	I11655198	2	
BOLTS					
12	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A320-L7/A194-7 INCH SIZE I01OB5301 <SB2R55G7/85> - 2 NUTS PER BOLT . - 125 mm Length	7/8	I55705282	12	
13	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A320-L7/A194-7 INCH SIZE I01OB5301 <SB2R55G3/451/4> - 2 NUTS PER BOLT - 135 mm Length	3/4	I55705089	12	
14	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A320-L7/A194-7 INCH SIZE I01OB5301 <SB2R55G1/221/2> - 2 NUTS PER BOLT - 65 mm Length	1/2	I55704809	8	
VALVES / IN-LINE ITEMS					
15	GATE VALVE API 600 150# A352-LCC RFFE 10-316 API 600 L7/7 125 - 250 AARH BB-OS&Y FLXW API 600 GE ASME B16.5 V01FDC82B12S NREQD <G412L-8353> (L-8353).	12	I63584488	1	
16	BALL VALVE BS EN ISO 17292 150# A352-LCC RFFE 304/PEEK L7/7 125 - 250 AARH 2PSB-FULL BORE-FLOATING BALL LE ASME B16.5 V04FDC82B6L1 NREQD <B43_4L-AL052> (L-AL052)	3/4	I63584718	1	



REMARKS FOR MECHANICAL SUBCONTRACTOR:

- 1) LINES 1.1/2" AND SMALLER SHALL BE SUPPORTED IN FIELD IF NOT OTHERWISE INDICATED.
2) ALL DIMENSION AND PROPER CONFIGURATION FOR LINES NPS 1.1/2" AND SMALLER SHALL BE CHECKED IN FIELD BEFORE CONSTRUCTION.
3) FOR THE COMPONENTS MARKED AS FIELD WELDED WITH THIS SYMBOL , ONE WELD FOR ADJUSTMENT OF IN LINE COMPONENT MUST BE LEFT
4) FOR EXTRA PIPE LENGTH REFER TO 4274-LZ-PC-00000603.
5) GUSSETING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-00-80004 / 4274-XH-SG-00000002.
6) CROSSING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTED.
7) IN CASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND IN LINE LIST (AS APPLICABLE, DATA SHOWN IN LINE LIST GOVERN.
8) ACTUAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBCONTRACTOR (REF.TO 4274-LZ-PC-00000603).
9) WHERE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR TO PERFORM IT BASED ON DOC. 45-P-000-7-06-00902/ 4274 -NN-DW-00000002 AND ASSEMBLY NO FEA005 AND FE019.

SUPPORTS LEGEND:		PIPE SUPPORT	A=RESTING SUPPORT	G=GUIDE	F=AXIAL STOP	B=ANCHOR	M=SPRING	S=TEFLON PAD
			WHERE 					


							STRESS CALC. N° REP-PE-001
00A	ISSUED FOR CONSTRUCTION - SITE REVISION	03/09/24	A.BARAATI	F.CARRA	M.PECILE		P & ID 19-A-19-000-1-01-00001 sheet 29
00	ISSUED FOR CONSTRUCTION	27-JAN-23	U.CHAVAN	P.VAZE	G.PAGANONI		LINE LIST N° 19-L-19-000-2-00-80602
REV.	DESCRIPTION	DATE	DRW. BY	CHECK BY	APPR. BY	APPR. CLIENT	PIPE LAYOUT N° 19-L-19-000-2-00-86196 sheet 7

APPROVED FOR CONSTRUCTION

Signature for construction is shown on Iso list of relevant CWA

TITLE
ISOMETRIC DRAWING LINE

12"-FL-40B04-B32S1 (PS)

PIPE MATERIAL		NOTES: 1. FOR TECHNICAL DETAILS SEE LINE LIST.		
CS, low temperature		2. FOR VENT, DRAIN OR INSTRUMENT CONNECTION DETAILS SEE 45-L-45-000-2-00-80102.		
HEAT TREATMENT (PWHT)		3. WELDING ACCORDING TO 45-L-45-000-2-00-80021.		
N		4. PAINTING ACCORDING TO 45-A-45-000-1-00-20160.		
		5. CODE SHOWN IN BOM BETWEEN "<" & ">" DENOTES REPSOL UNICODE. "~N/A~" MEANS UNICODE IS "NOT AVAILABLE".		
PAINTING SCHEME (3)		CONTRACTOR:	CONTRACTOR DRAWING NUMBER:	PROJECT:
20			4274-XH-DL-2121FL40B04-1	4001008
PIPING CLASS				
B32S1				
WELDING CLASS (4)		<div>LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) PLANTS FOR PROJECT - ALBA PROJECT</div> <div>CLIENT / COMPLEX REPSOL POLYMERS/ SINES INDUSTRIAL COMPLEX</div>		
M				
PED CATEGORY				
II				
INSULATION CODE / THK. (mm)		DRAWING NUMBER		REV.
PS	50	ANNEX 19	SPEC. L	19-000-2-02-00001 sheet 2121FL40B04-1
				00A