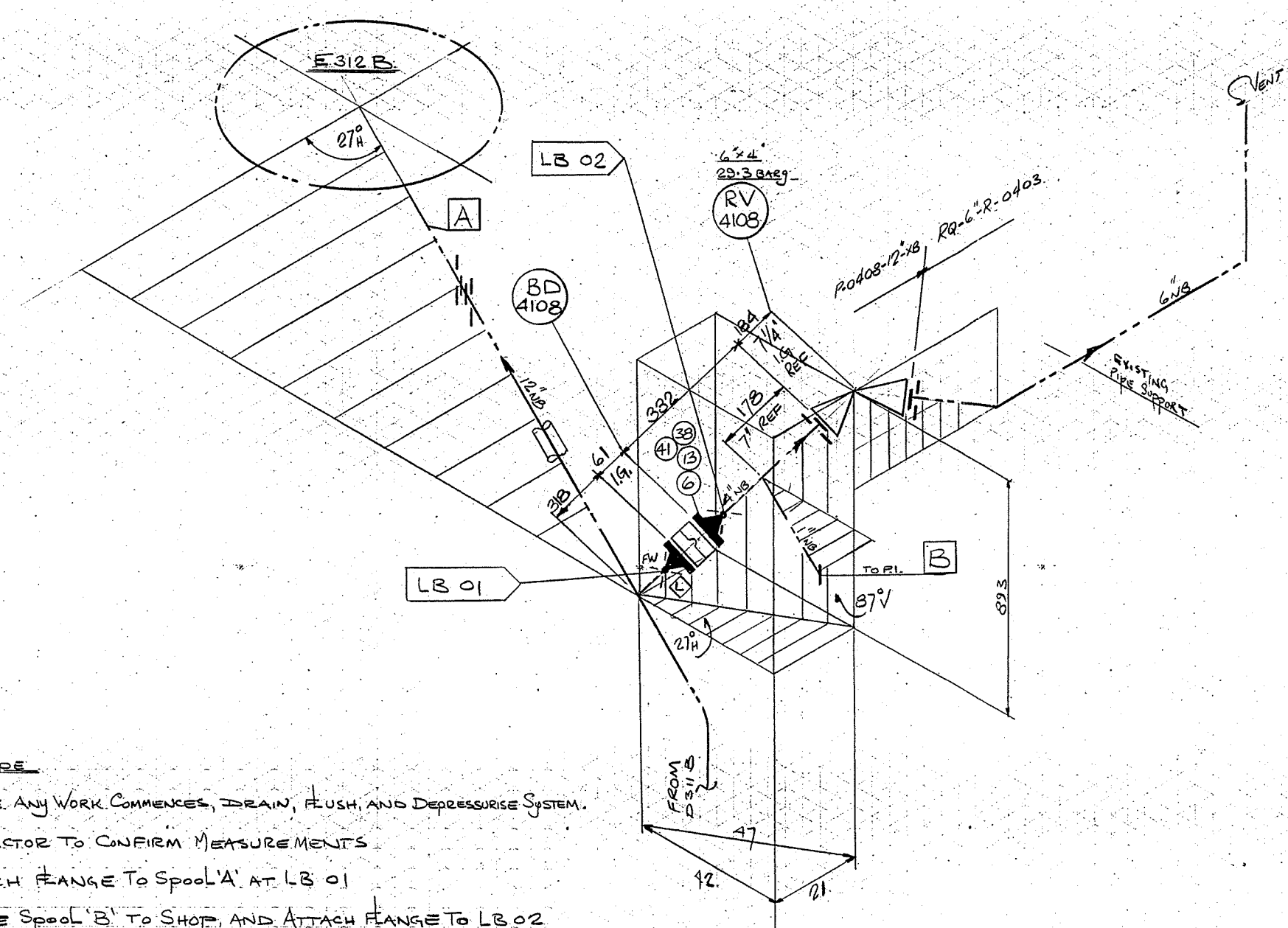
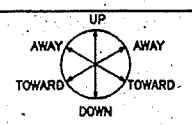


100mm SHOP RUN OUT, TO BE PROVIDED AT A MAKE UP LENGTH OR LOOSE FLANGE UNLESS NOTED OTHERWISE.  
 ALL FLANGES TO BE DRILLED OFF CENTRES, AND ALL BENDS TO BE 90° UNLESS NOTED OTHERWISE.



Work Scope

- BEFORE ANY WORK COMMENCES, DRAIN, FLUSH, AND DEPRESSURISE SYSTEM.
- CONTRACTOR TO CONFIRM MEASUREMENTS
- ATTACH FLANGE TO SPOOL 'A' AT LB 01
- REMOVE SPOOL 'B' TO SHOP, AND ATTACH FLANGE TO LB 02
- NEW FLANGE AT LB 01 TO BE HYDROTESTED AND 100% RADIOGRAPHY.
- NEW FLANGE AT LB 02 TO BE HYDROTESTED AND 100% RADIOGRAPHY.

DESCRIPTION OF MATERIAL		SIZE		REMARKS
SCH or RATING	TYPE			ORDER No
		4"		
PIPING				
FLANGES	300WN TITANIUM GR 130	2		OUT OF SPEC
GASKETS	300 SpWb IBC TYPE G13	2		
VALVES				
FITTINGS				
	STUD BOLT M20x175Lg.	2		
	ASTM A193 Gr B7 Bolt ASTM A194 Gr 2H NUT			
	BURSTING DISC + ASSEMBLY	1		

LINE SPEC	X B	LINE DIAGRAM No	FWA/10513(SHT 30F9)
FAB. SPEC	EDS.P.P. 51.02	PIPING ARRGT No	N/A
CLASS	I	LINE Nos	P0403 AND R-0408
INSULATION SPEC	P-25mm	FROM	D 311 B
PAINT SPEC	N/A	TO	E.312 B + Atmos
CLEANING SPEC	EDS.P.P. 51.02	FLUID(S)	Sulphuric Vapour
TEST SPEC	EDS.P.P. 64.01	PLANT	T7
RADIOGRAPHY	100%	BUSINESS AREA	OXIDATION REACTION
STRESS RELIEVE	Yes	STRESS CALC No.	N/A
DESIGN PRESS	29.3 BAR G	REGISTERED LINE	YES NO
OPERATING PRESS	26.5 BAR G	REGISTERED PACK No	TA7-P-011
DESIGN TEMP	252 °C	PROJECT NUMBER	11407
OPERATING TEMP	224 °C		
PIPE HYDRAULIC TEST	4.4 BAR G		

REV	ISSUED FOR COMMENT	REVISION	CHKD	DATE
PI	ISSUED FOR COMMENT			

REF. DRGS/DOCUMENTS:  
 DESTRUCTION ISOMETRIC P-04100  
 FIRST PROPOSAL P-04101

APPROVED	SECTION	DATE
	PROJECTS	
	WORKS	
	INSTRUMENTS	

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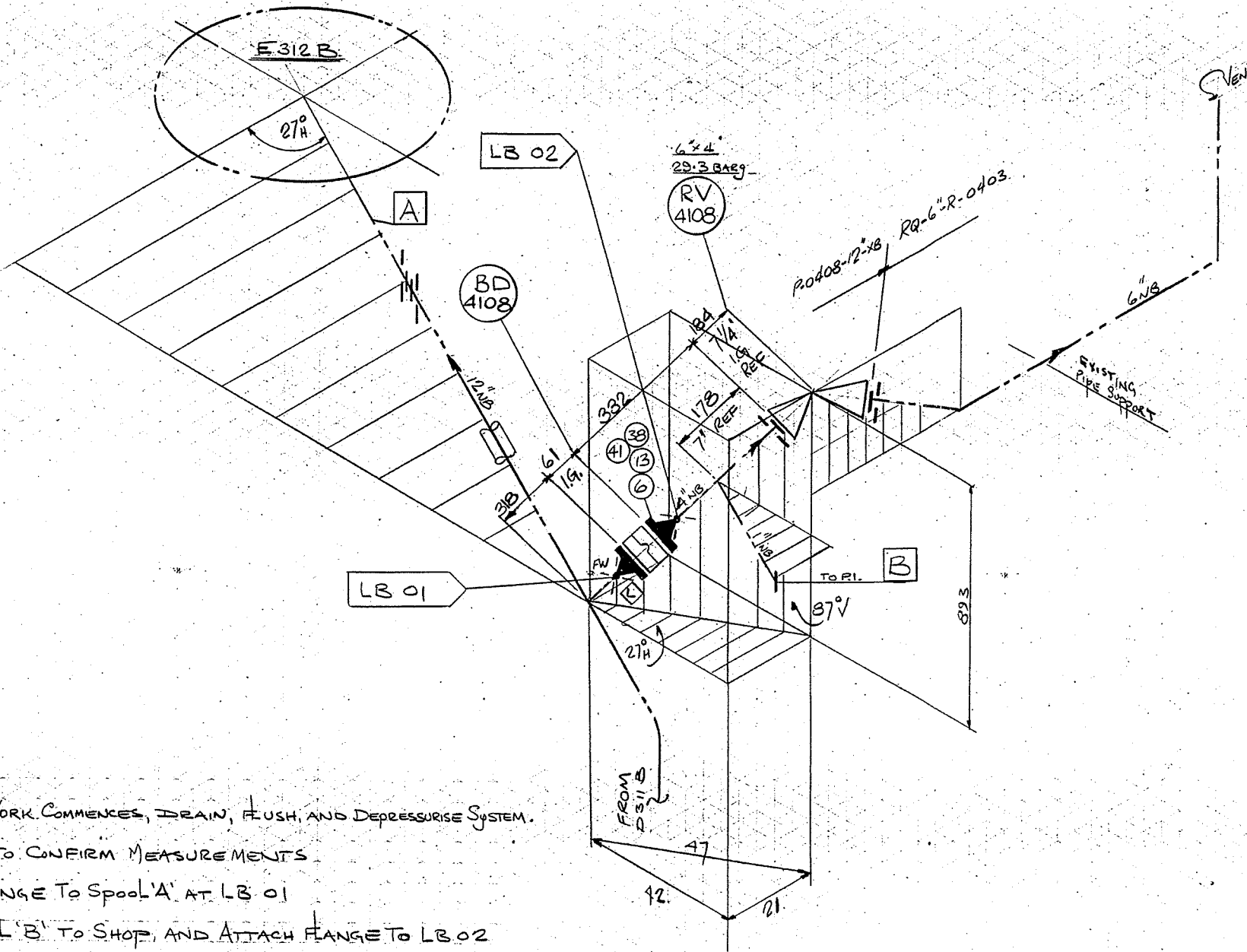
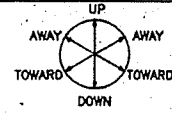
E-312B REPLACEMENT OF BURSTING DISC ASSEMBLY BD 4108  
 SECOND PROPOSAL  
 ISOMETRIC DRG. No. P-04102

REV PI



X X INDICATES MAKE UP PIPE TO BE WELDED AT SITE  
 X INDICATES BREAK IN PIPE TO BE WELDED AT SITE  
 ◊ INDICATES FLANGE LEFT LOOSE AND WELDED AT SITE

100mm SHOP RUN OUT, TO BE PROVIDED AT A MAKE UP LENGTH OR LOOSE FLANGE  
 UNLESS NOTED OTHERWISE.  
 ALL FLANGES TO BE DRILLED OFF CENTRES, AND ALL BENDS TO BE 90° UNLESS  
 NOTED OTHERWISE.



**Work Scope**

1. BEFORE ANY WORK COMMENCES, DRAIN, FLUSH, AND DEPRESSURISE SYSTEM.
2. CONTRACTOR TO CONFIRM MEASUREMENTS
3. ATTACH FLANGE TO SPOOL 'A' AT LB 01
4. REMOVE SPOOL 'B' TO SHOP, AND ATTACH FLANGE TO LB 02
5. NEW FLANGE AT LB 01 TO BE HYDROTESTED AND 100% RADIOGRAPHY.
6. NEW FLANGE AT LB 02 TO BE HYDROTESTED AND 100% RADIOGRAPHY.

DESCRIPTION OF MATERIAL		SIZE	REMARKS
SCH OR RATING	TYPE		ORDER No
		4"	
PIPING			
FLANGES	300" WN TITANIUM GR 130	2	OUT OF Spec
GASKETS	300" Spubs IBC TYPE G13	2	
VALVES			
FITTINGS			
	STUD BOLT M20 x 175 Lg.	8	
	ASTM A193 GR B7 BOLT ASTM A194 GR 2H NUT		
	BURSTING DISC + ASSEMBLY	1	

LINE SPEC	X B	LINE DIAGRAM No	FWA/405131 SHT 3 OF 9
FAB. SPEC	EDS.P.P. 51.02	PIPING ARRGT No	N/A
CLASS	I	LINE Nos	P0403 AND R-0408
INSULATION SPEC	P-25mm	FROM	D 311 B
PAINT SPEC	N/A	TO	E 312 B + Atmos
CLEANING SPEC	EDS.P.P. 51.02	FLUID(S)	SULPHURIC VAPOR
TEST SPEC	EDS.P.P. 64.01	PLANT	T7
RADIOGRAPHY	100%	BUSINESS AREA	OXIDATION REACTION
STRESS RELIEVE	Yes	STRESS CALC No.	N/A
DESIGN PRESS	29.3 BAR G	REGISTERED LINE	YES NO
OPERATING PRESS	26.5 BAR G	REGISTERED PACK No	TA7-P-011
DESIGN TEMP	252 °C	PROJECT NUMBER	11407
OPERATING TEMP	224 °C		
PIPE HYDRAULIC TEST	4.4 BAR G		

REF. DRGS/DOCUMENTS:  
 DESTRUCTION ISOMETRIC P-04100  
 FIRST PROPOSAL P-04101

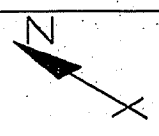
APPROVED	SECTION	DATE
	PROJECTS	
	WORKS	
	INSTRUMENTS	



E-312 B REPLACEMENT OF  
 BURSTING DISC ASSEMBLY BD 4108  
 SECOND PROPOSAL  
 ISOMETRIC DRG. No. P-04102  
 REV PI

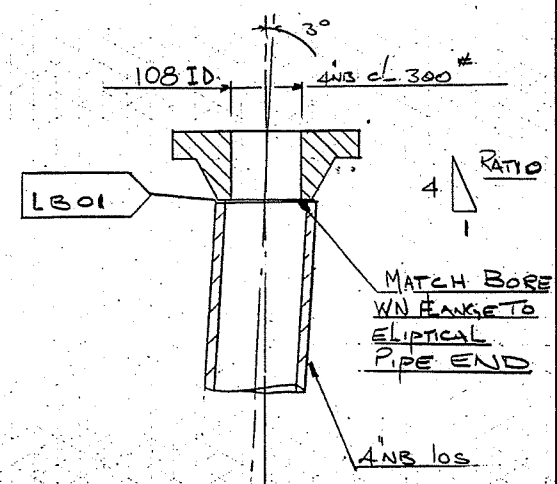
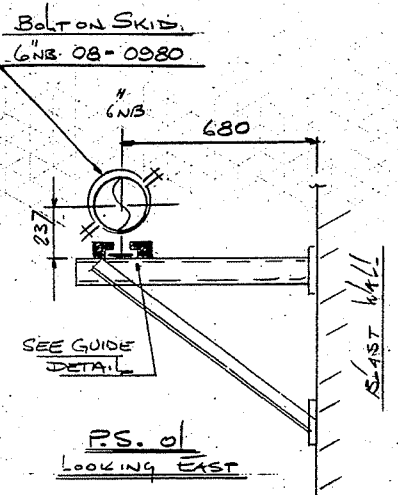
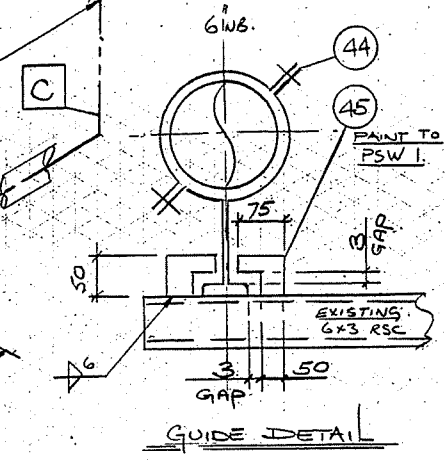
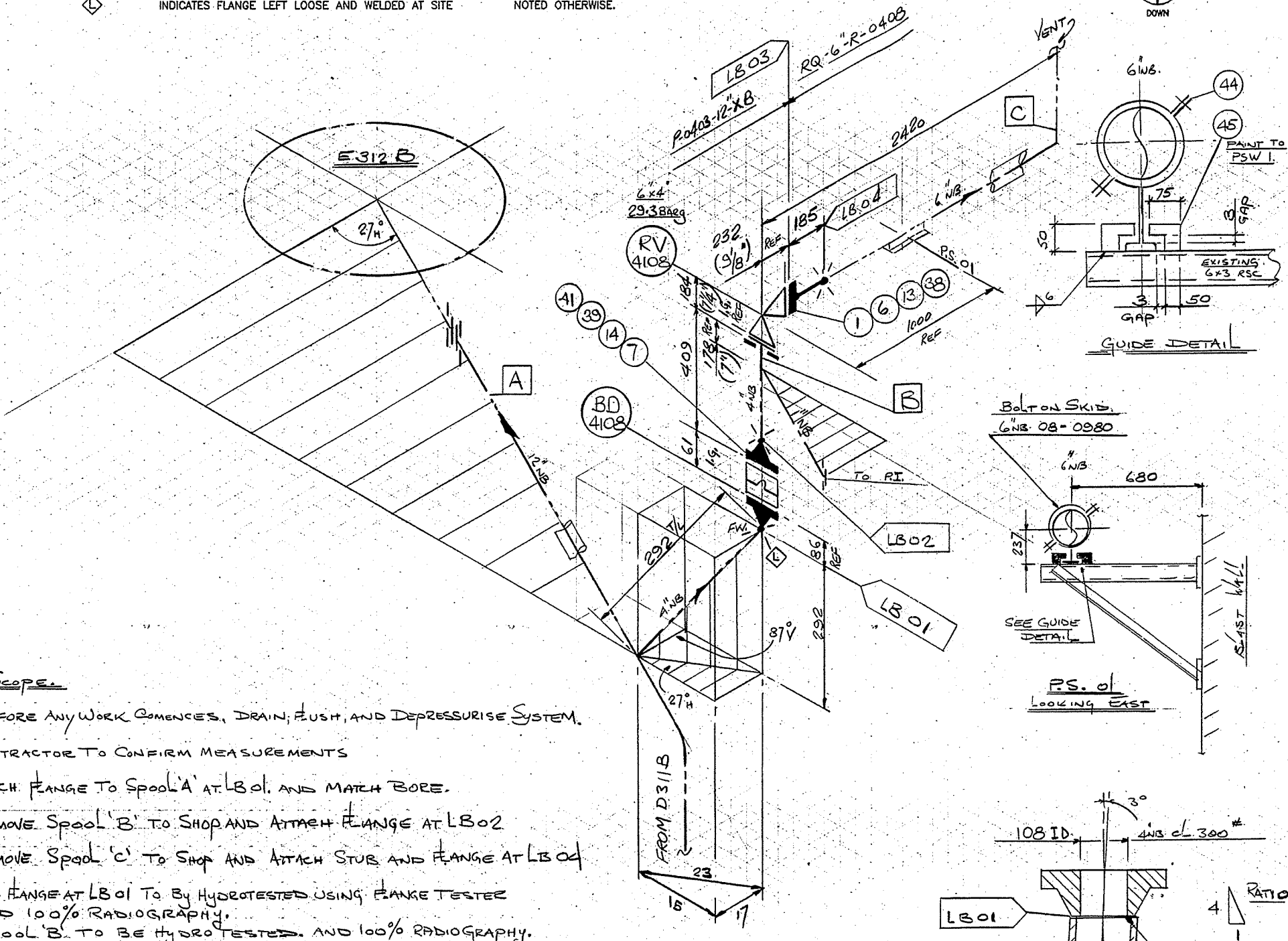
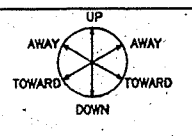
PI	ISSUED FOR COMMENT	REVISION	CHKD	DATE





X X INDICATES MAKE UP PIPE TO BE WELDED AT SITE  
 X INDICATES BREAK IN PIPE TO BE WELDED AT SITE  
 ◊ INDICATES FLANGE LEFT LOOSE AND WELDED AT SITE

100mm SHOP RUN OUT, TO BE PROVIDED AT A MAKE UP LENGTH OR LOOSE FLANGE  
 UNLESS NOTED OTHERWISE.  
 ALL FLANGES TO BE DRILLED OFF CENTRES, AND ALL BENDS TO BE 90° UNLESS  
 NOTED OTHERWISE.



**Work Scope**

1. BEFORE ANY WORK COMMENCES, DRAIN, FLUSH, AND DEPRESSURISE SYSTEM.
2. CONTRACTOR TO CONFIRM MEASUREMENTS
3. ATTACH FLANGE TO SPOOL 'A' AT LB 01, AND MATCH BORE.
4. REMOVE SPOOL 'B' TO SHOP AND ATTACH FLANGE AT LB 02
5. REMOVE SPOOL 'C' TO SHOP AND ATTACH STUB AND FLANGE AT LB 04
6. NEW FLANGE AT LB 01 TO BE HYDROTESTED USING FLANGE TESTER AND 100% RADIOGRAPHY.
7. SPOOL 'B' TO BE HYDROTESTED, AND 100% RADIOGRAPHY.
8. SPOOL 'C' TO BE 100% RADIOGRAPHY.

DESCRIPTION OF MATERIAL	SIZE			REMARKS ORDER No
	SCH OF RATING	TYPE		
40s SMLS ASTM A312 - TP 316 L			6" 4" 1"	
150" S.O. ASME B16.5 SS ASTM A182 F321			1	OUT OF SPEC.
300" W.N. TITANIUM GR 130			2	OUT OF SPEC.
150" Sp.Weld IBC TYPE G11			1	
300" Sp.Weld IBC TYPE G13			2	
STUD BOLTS M20x100Lg			8	
STUD BOLTS M20x175Lg			8	
ASTM A193 Gr B7 Bolt ASTM A194 Gr 2H Nut				
BURSTING DISC + ASSEMBLY			1	
PS. 01				
BOLTON SKID 6 NB 08-0980			1	
PLATE 75x50x1/2 THK C.S.			2	

LINE SPEC	X B	R Q	LINE DIAGRAM No	FWA/405131 SMT3 029
FAB. SPEC	EDS. P.P. 51.02.	EDS. P.P. 51.02	PIPING ARRGT No	N/A
CLASS	I	II	LINE Nos	P-0403 AND R-0408
INSULATION SPEC	P-25mm	P-25mm	FROM	D 311 B
PAINT SPEC	N/A	N/A	TO	E 312 B + ATMOS
CLEANING SPEC	EDS. P.P. 51.02.	EDS. P.P. 51.02	FLUID(S)	SULPHURIC VAPOUR
TEST SPEC	EDS. P.P. 64.01	EDS. P.P. 64.01	PLANT	T7
RADIOGRAPHY	100%	100%	BUSINESS AREA	OXIDATION REACTION
STRESS RELIEVE	Yes	No	STRESS CALC No.	N/A
DESIGN PRESS	25.3 BAR G	N/A BAR G	REGISTERED LINE	YES NO
OPERATING PRESS	26.5 BAR G	ATMOS BAR G	REGISTERED PACK No	TA7-P-011
DESIGN TEMP	252 °C	252 °C	PROJECT NUMBER	11407
OPERATING TEMP	224 °C	224 °C		
PIPE HYDRAULIC TEST	4.4 BAR G	SERVICE LEAK BAR G		

PI	ISSUED FOR COMMENT
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REF. DRGS/DOCUMENTS:  
 DESTRUCTION ISOMETRIC P-04100  
 SECOND PROPOSAL P-04102

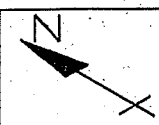
APPROVED	SECTION	DATE
	PROJECTS	
	WORKS	
	INSTRUMENTS	

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**DuPont SA** ISOMETRIC DRG. No. **P-04101**

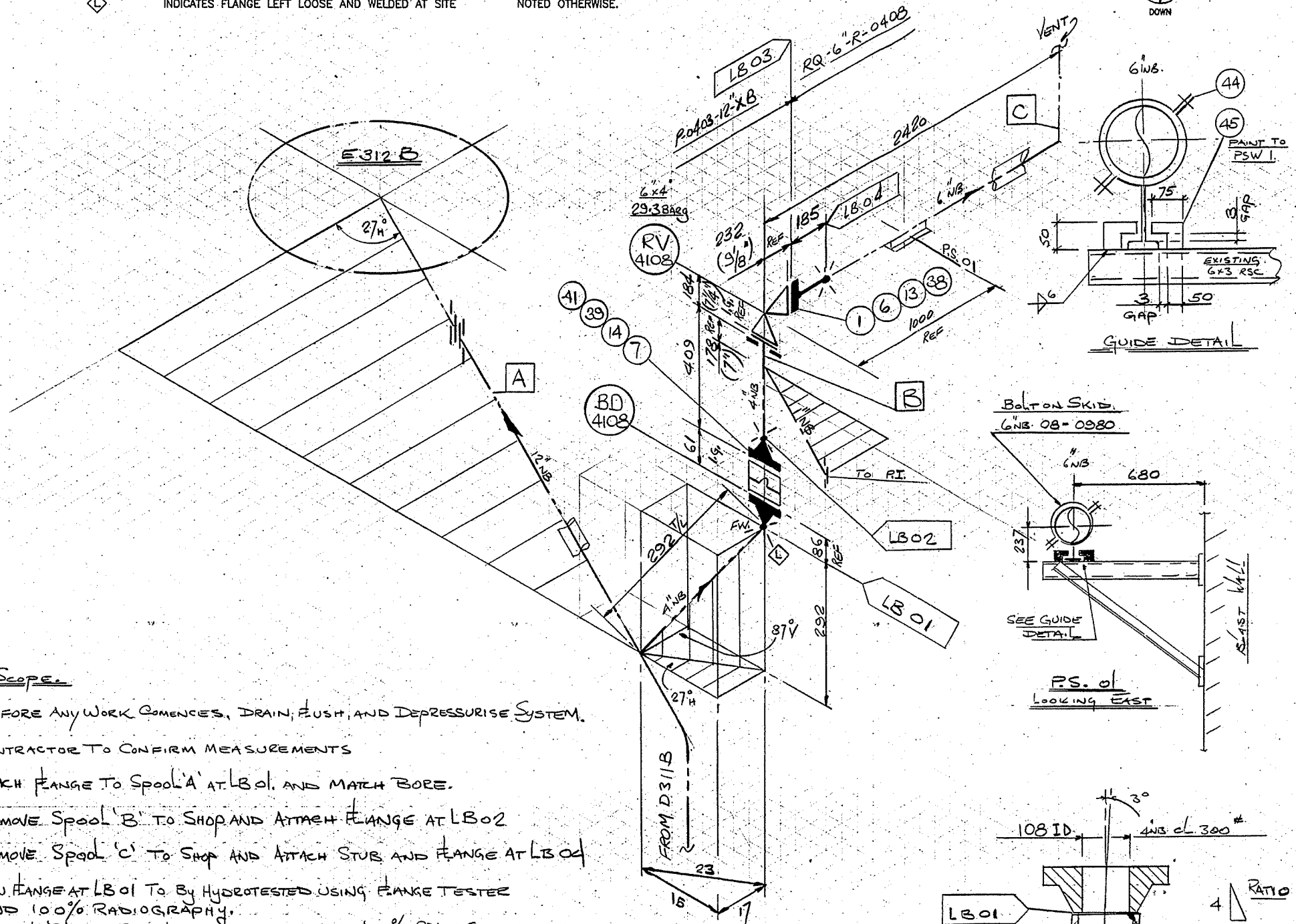
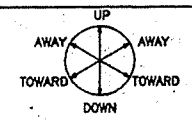
**E-312B Replacement of Bursting Disc Assembly BD 4108 FIRST PROPOSAL**

REV **PI**



X X INDICATES MAKE UP PIPE TO BE WELDED AT SITE  
 X INDICATES BREAK IN PIPE TO BE WELDED AT SITE  
 ◊ INDICATES FLANGE LEFT LOOSE AND WELDED AT SITE

100mm SHOP RUN OUT, TO BE PROVIDED AT A MAKE UP LENGTH OR LOOSE FLANGE  
 UNLESS NOTED OTHERWISE.  
 ALL FLANGES TO BE DRILLED OFF CENTRES, AND ALL BENDS TO BE 90° UNLESS  
 NOTED OTHERWISE.



**WORK SCOPE**

1. BEFORE ANY WORK COMMENCES, DRAIN, FLUSH, AND DEPRESSURISE SYSTEM.
2. CONTRACTOR TO CONFIRM MEASUREMENTS
3. ATTACH FLANGE TO SPOOL 'A' AT LB01 AND MATCH BORE.
4. REMOVE SPOOL 'B' TO SHOP AND ATTACH FLANGE AT LB02
5. REMOVE SPOOL 'C' TO SHOP AND ATTACH STUB AND FLANGE AT LB04
6. NEW FLANGE AT LB01 TO BE HYDROTESTED USING FLANGE TESTER AND 100% RADIOGRAPHY.
7. SPOOL 'B' TO BE HYDROTESTED AND 100% RADIOGRAPHY.
8. SPOOL 'C' TO BE 100% RADIOGRAPHY.

DESCRIPTION OF MATERIAL			SIZE	REMARKS
SCH OF RATING	TYPE		6" 4" 1"	ORDER No
40s	SMLS	ASTM A312 - TP 316 L	0-2m	
150"	S.O.	ASME B16.5 SS ASTM A182 F321	1	OUT OF SPEC.
300"	WN.	TITANIUM GR 130	2	OUT OF SPEC.
150"	SpWb	IBC TYPE G11	1	
300"	SpWb	IBC TYPE G13	2	
STUD BOLTS M20x100Lg 8				
STUD BOLTS M20x175Lg 8				
ASTM A193 GR B7 BOLT ASTM A194 GR 2H NUT				
BURSTING DISC + ASSEMBLY 1				
PS. 01				
BOLTON SKID 6 NB 08-0980 1				
PLATE 75x50x12 THK C.S. 2				

LINE SPEC	X.B	R.Q	LINE DIAGRAM No	FWA/405131 SMT3 0P9
FAB. SPEC	EDS.PIP.51.02	EDS.PIP.51.02	PIPING ARRGT No	N/A
CLASS	I	II	LINE Nos	P-0403 AND R-0408
INSULATION SPEC	P-25mm	P-25mm	FROM	D 311 B
PAINT SPEC	N/A	N/A	TO	E 312 B + ATMOS
CLEANING SPEC	EDS.PIP.51.02	EDS.PIP.51.02	FLUID(S)	SULPHURIC VAPOUR
TEST SPEC	EDS.PIP.64.01	EDS.PIP.64.01	PLANT	T7
RADIOGRAPHY	100%	100%	BUSINESS AREA	OXIDATION REACTION
STRESS RELIEVE	YES	NO	STRESS CALC No.	N/A
DESIGN PRESS	25.3 BAR G	N/A BAR G	REGISTERED LINE	YES NO
OPERATING PRESS	26.5 BAR G	ATMOS BAR G	REGISTERED PACK No	TA7-P-011
DESIGN TEMP	252 °C	252 °C	PROJECT NUMBER	11407
OPERATING TEMP	224 °C	224 °C		
PIPE HYDRAULIC TEST	4.4 BAR G	SERVICE LEAK BAR G		

REF. DRGS/DOCUMENTS:	DESTRUCTION ISOMETRIC P-04100
	SECOND PROPOSAL P-04102
PI	ISSUED FOR COMMENT

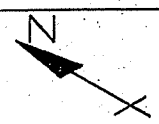
APPROVED	SECTION	DATE
	PROJECTS	
	WORKS	
	INSTRUMENTS	

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**DuPont SA**

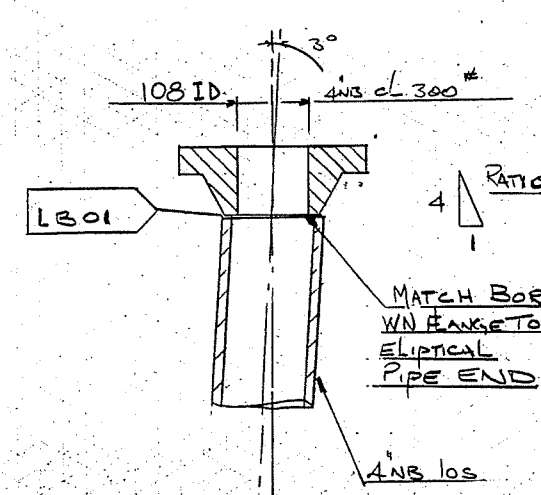
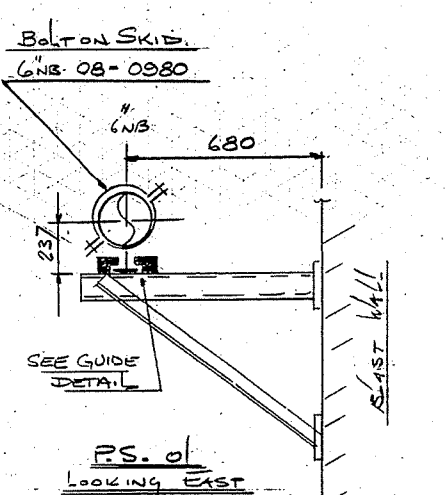
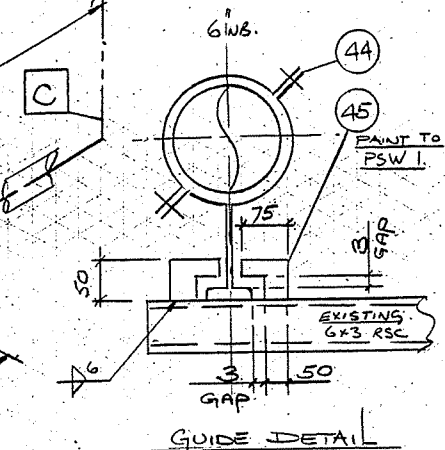
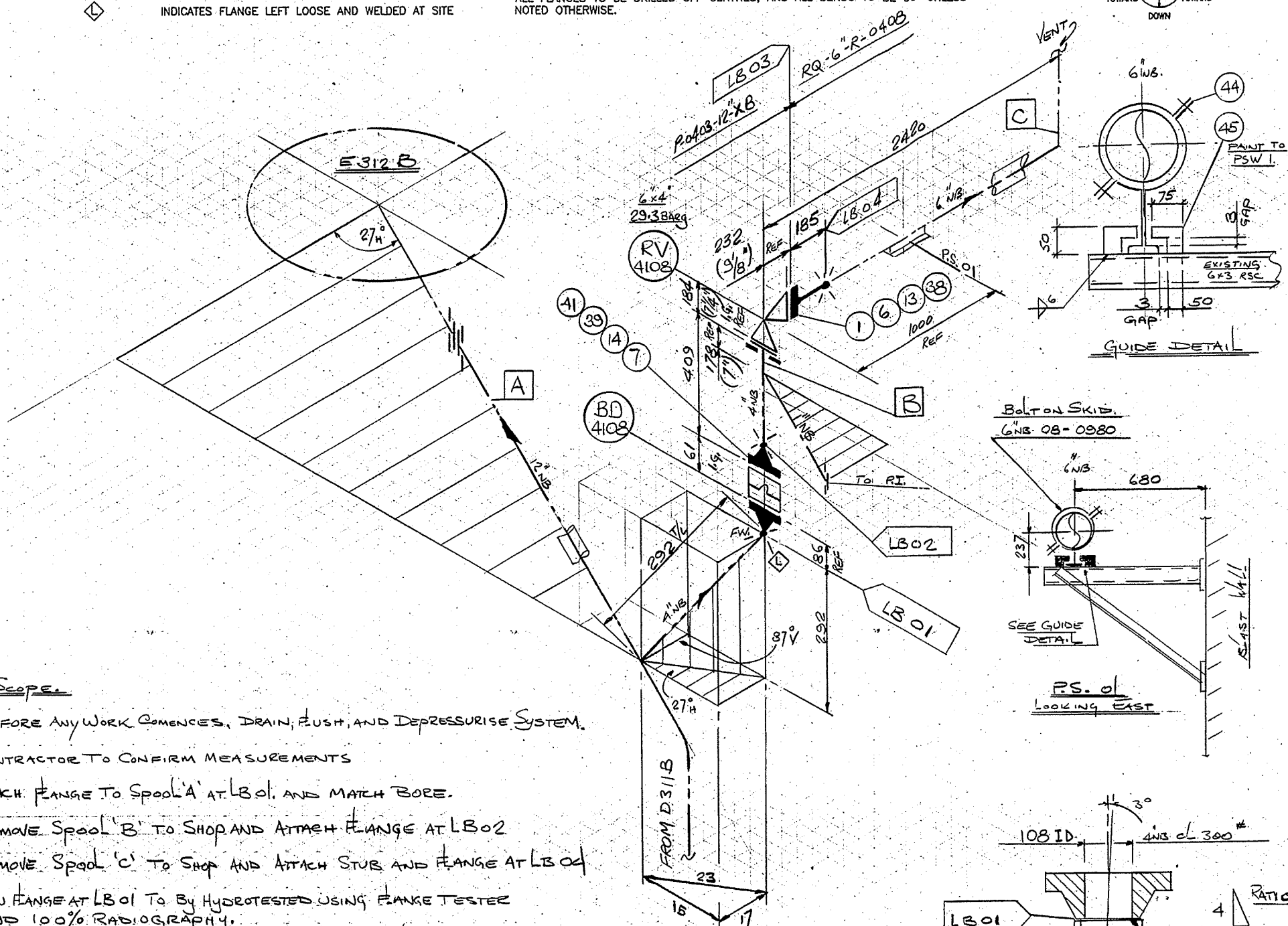
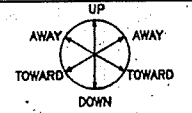
E-312B Replacement of Bursting Disc Assembly BD 4108  
 FIRST PROPOSAL  
 ISOMETRIC DRG. No. P-04101

REV PI



X X INDICATES MAKE UP PIPE TO BE WELDED AT SITE  
 X INDICATES BREAK IN PIPE TO BE WELDED AT SITE  
 ◊ INDICATES FLANGE LEFT LOOSE AND WELDED AT SITE

100mm SHOP RUN OUT, TO BE PROVIDED AT A MAKE UP LENGTH OR LOOSE FLANGE UNLESS NOTED OTHERWISE.  
 ALL FLANGES TO BE DRILLED OFF CENTRES, AND ALL BENDS TO BE 90° UNLESS NOTED OTHERWISE.



**Work Scope**

- BEFORE ANY WORK COMMENCES, DRAIN, FLUSH, AND DEPRESSURISE SYSTEM.
- CONTRACTOR TO CONFIRM MEASUREMENTS
- ATTACH FLANGE TO SPOOL 'A' AT LB01, AND MATCH BORE.
- REMOVE SPOOL 'B' TO SHOP AND ATTACH FLANGE AT LB02
- REMOVE SPOOL 'C' TO SHOP AND ATTACH STUD AND FLANGE AT LB04
- NEW FLANGE AT LB01 TO BE HYDROTESTED USING FLANGE TESTER AND 100% RADIOGRAPHY.
- SPOOL 'B' TO BE HYDROTESTED, AND 100% RADIOGRAPHY.
- SPOOL 'C' TO BE 100% RADIOGRAPHY.

DESCRIPTION OF MATERIAL	SIZE			REMARKS
	SCH OF RATING	TYPE		
40s SMLS ASTM A312 - TP 316 L			6" 4" 1"	
150" S.O. ASME B16.5 SS ASTM A182 F321			1	OUT OF SPEC.
300" W.N. TITANIUM GR 130			2	OUT OF SPEC.
150" Sp.Wb IBC TYPE G 11			1	
300" Sp.Wb IBC TYPE G 13			2	
STUD BOLTS M20x100Lg			8	
STUD BOLTS M20x175Lg			8	
ASTM A193 GR B7 BOLT ASTM A194 GR 2H NUT				
BURSTING DISC + ASSEMBLY			1	
PS.01				
BOLTON SKID 6 NB 08-0980			1	
PLATE 75x50x1/2 THK C.S.			2	

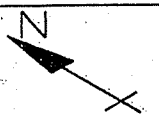
LINE SPEC	X.B	R.Q	LINE DIAGRAM No	FWA/405131 SHT 3 OF 9
FAB. SPEC	EDS. PIP. 51.02	EDS. PIP. 51.02	PIPING ARRGT No	N/A
CLASS	I	II	LINE Nos	P-0403 AND R-0408
INSULATION SPEC	P - 25mm	P - 25mm	FROM	D 311 B
PAINT SPEC	N/A	N/A	TO	E 312 B ATMOS
CLEANING SPEC	EDS. PIP. 51.02	EDS. PIP. 51.02	FLUID(S)	SULPHURIC VAPOUR
TEST SPEC	EDS. PIP. 64.01	EDS. PIP. 64.01	PLANT	T7
RADIOGRAPHY	100%	100%	BUSINESS AREA	OXIDATION REACTION
STRESS RELIEVE	YES	NO	STRESS CALC No.	N/A
DESIGN PRESS	29.3 BAR G	N/A BAR G	REGISTERED LINE	YES NO
OPERATING PRESS	26.5 BAR G	ATMOS BAR G	REGISTERED PACK No	TA7-P-011
DESIGN TEMP	252 °C	252 °C	PROJECT NUMBER	11407
OPERATING TEMP	224 °C	224 °C		
PIPE HYDRAULIC TEST	4.4 BAR G	Service Leak BAR G		

PI	ISSUED FOR COMMENT	DATE

REF. DRGS/DOCUMENTS:
DESTRUCTION ISOMETRIC P-04100
SECOND PROPOSAL P-04102

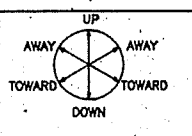
APPROVED	SECTION	DATE
	PROJECTS	
	WORKS	
	INSTRUMENTS	

CHECKED: M. GREEN 30-5-01  
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**DuPont SA**  
 E-312B Replacement of Bursting Disc Assembly BD 4108  
 FIRST PROPOSAL  
 ISOMETRIC DRG. No. P-04101  
 REV PI

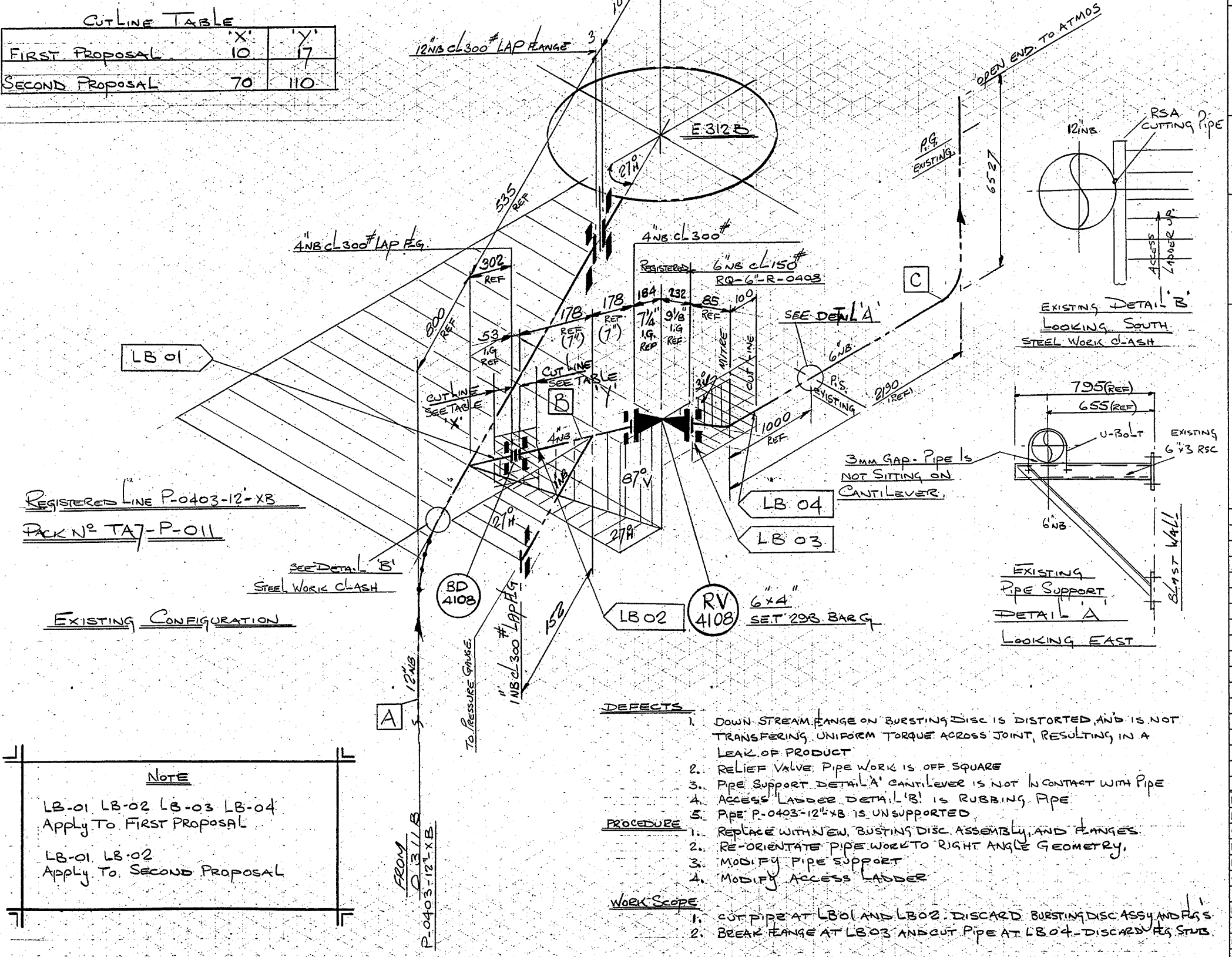


INDICATES MAKE UP PIPE TO BE WELDED AT SITE  
 INDICATES BREAK IN PIPE TO BE WELDED AT SITE  
 INDICATES FLANGE LEFT LOOSE AND WELDED AT SITE

100mm SHOP RUN OUT, TO BE PROVIDED AT A MAKE UP LENGTH OR LOOSE FLANGE UNLESS NOTED OTHERWISE.  
 ALL FLANGES TO BE DRILLED OFF CENTRES, AND ALL BENDS TO BE 90° UNLESS NOTED OTHERWISE.



CUTLINE TABLE		
	'X'	'Y'
FIRST PROPOSAL	10	17
SECOND PROPOSAL	70	110



**DEFECTS**

- DOWN-STREAM FLANGE ON BURSTING DISC IS DISTORTED AND IS NOT TRANSFERRING UNIFORM TORQUE ACROSS JOINT, RESULTING IN A LEAK OF PRODUCT
- RELIEF VALVE PIPE WORK IS OFF SQUARE
- PIPE SUPPORT DETAIL 'A' CANTILEVER IS NOT IN CONTACT WITH PIPE
- ACCESS LADDER DETAIL 'B' IS RUBBING PIPE
- PIPE P-0403-12"XB IS UNSUPPORTED

**PROCEDURE**

- REPLACE WITH NEW BURSTING DISC ASSEMBLY AND FLANGES.
- RE-ORIENTATE PIPE WORK TO RIGHT ANGLE GEOMETRY.
- MODIFY PIPE SUPPORT
- MODIFY ACCESS LADDER

**WORK SCOPE**

- CUT PIPE AT LB01 AND LB02. DISCARD BURSTING DISC ASSY AND FLGS.
- BREAK FLANGE AT LB03 AND CUT PIPE AT LB04. DISCARD FLG. STUBS.

**NOTE**  
 LB-01 LB-02 LB-03 LB-04  
 Apply To FIRST PROPOSAL  
 LB-01 LB-02  
 Apply To SECOND PROPOSAL

DESCRIPTION OF MATERIAL	SIZE	REMARKS	ORDER No
			SCH or RATING
PIPING			
FLANGES			
GASKETS			
VALVES			
FITTINGS			

LINE SPEC	XB	RQ	LINE DIAGRAM No	FWA/405131 Sit 3 of 9
FAB. SPEC	EDS.PIP.51.02	EDS.PIP.51.02	PIPING ARRGT No	N/A
CLASS	I	II	LINE Nos	P-0403-12"XB
INSULATION SPEC	P-1"	P-1"	FROM	D-311 B
PAINT SPEC	N/A	N/A	TO	E-312 B
CLEANING SPEC	EDS.PIP.51.02	EDS.PIP.51.02	FLUID(S)	SULPHUR C/VAPOUR
TEST SPEC	EDS.FP.64.01	N/A	PLANT	T7
RADIOGRAPHY	100%	100%	BUSINESS AREA	OXIDATION/REACTION
STRESS RELIEVE	YES	N/A	STRESS CALC No.	N/A
DESIGN PRESS	29.3 BAR G	— BAR G	REGISTERED LINE	YES NO
OPERATING PRESS	26.5 BAR G	ATMOS BAR G	REGISTERED PACK No	TA7-P-011
DESIGN TEMP	252 °C	252 °C	PROJECT NUMBER	11407
OPERATING TEMP	224 °C	224 °C		
PIPE HYDRAULIC TEST	44 BAR G	SERVICE LEAK BAR G		

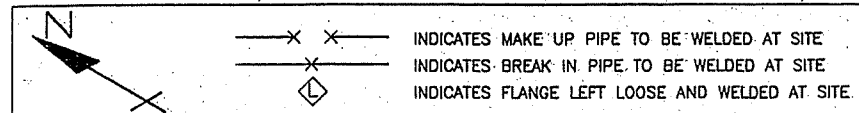
**DESTRUCTION ISOMETRIC**

REF. DRGS/DOCUMENTS:  
 FIRST PROPOSAL P-04101  
 SECOND PROPOSAL P-04102

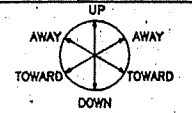
APPROVED	SECTION	DATE
	PROJECTS	
	WORKS	
	INSTRUMENTS	



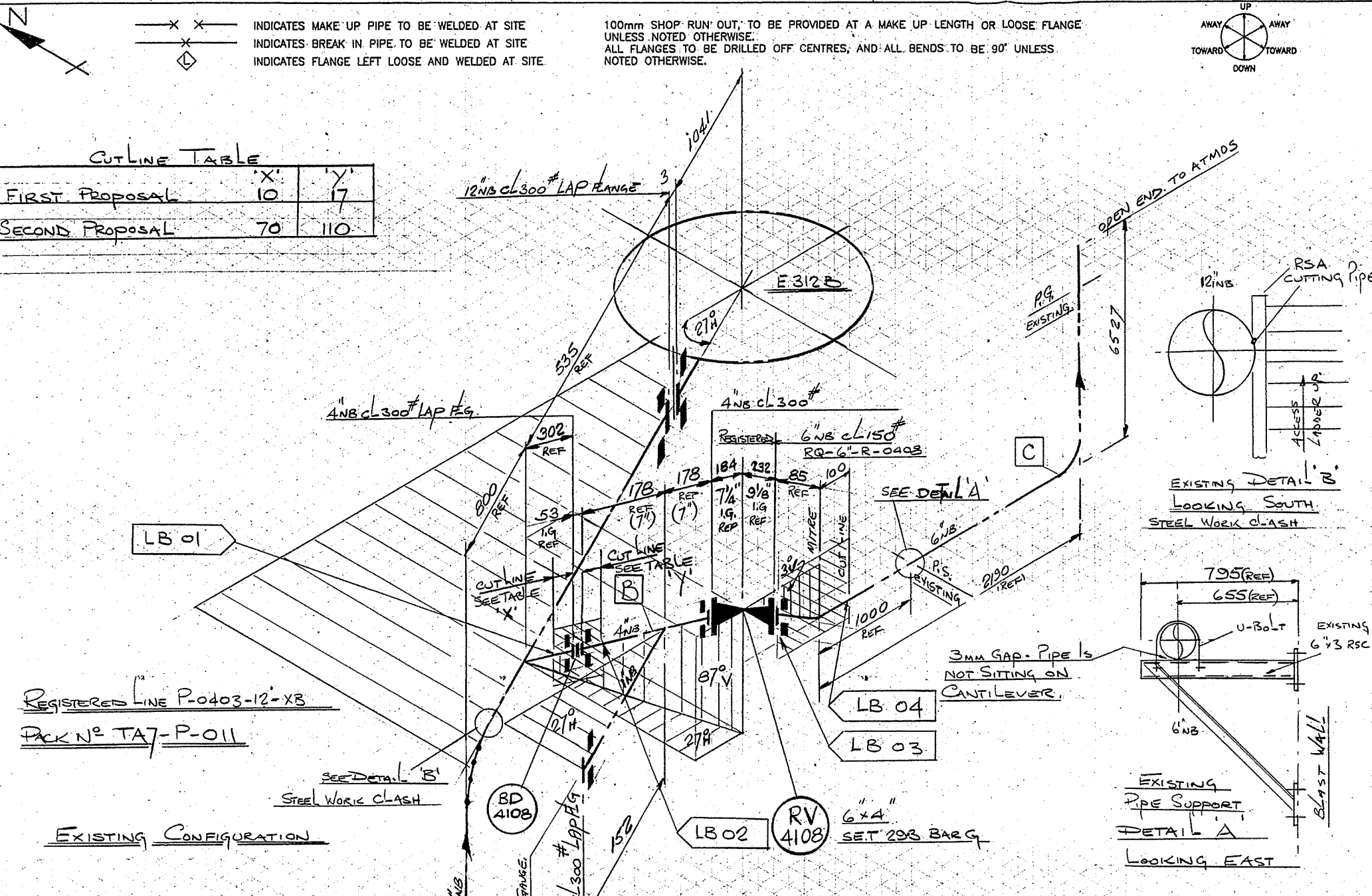
**E-312B. Replacement of BURSTING DISC ASSEMBLY BD 4108 DESTRUCTION ISOMETRIC.**  
 ISOMETRIC DRG. No. P-04100  
 REV PI



100mm SHOP RUN OUT, TO BE PROVIDED AT A MAKE UP LENGTH OR LOOSE FLANGE UNLESS NOTED OTHERWISE.  
ALL FLANGES TO BE DRILLED OFF CENTRES, AND ALL BENDS TO BE 90° UNLESS NOTED OTHERWISE.



	X'	Y'
FIRST PROPOSAL	10	17
SECOND PROPOSAL	70	110



**NOTE**  
LB-01 LB-02 LB-03 LB-04  
Apply To FIRST PROPOSAL  
LB-01 LB-02  
Apply To SECOND PROPOSAL

- DEFECTS**
- DOWN STREAM FLANGE ON BUSTING DISC IS DISTORTED AND IS NOT TRANSFERING UNIFORM TORQUE ACROSS JOINT, RESULTING IN A LEAK OF PRODUCT
  - RELIEF VALVE PIPE WORK IS OFF SQUARE
  - PIPE SUPPORT DETAIL A CANTILEVER IS NOT IN CONTACT WITH PIPE
  - ACCESS LADDER DETAIL B IS RUBBING PIPE
  - PIPE P-0403-12XB IS UNSUPPORTED

- PROCEDURE**
- REPLACE WITH NEW BUSTING DISC ASSEMBLY AND FLANGES.
  - RE-ORIENTATE PIPE WORK TO RIGHT ANGLE GEOMETRY.
  - MODIFY PIPE SUPPORT
  - MODIFY ACCESS LADDER

- WORK SCOPE**
- CUT PIPE AT LB01 AND LB02. DISCARD BUSTING DISC ASSY AND FLS.
  - BREAK FLANGE AT LB03 AND CUT PIPE AT LB04. DISCARD FLS STUB.

**DESTRUCTION ISOMETRIC**

DESCRIPTION OF MATERIAL	SIZE	REMARKS
PIPING		
FLANGES		
GASKETS		
VALVES		
FITTINGS		

LINE SPEC	XB	RQ	LINE DIAGRAM No	FWA/405131 Sht 3 of 9
FAB. SPEC	EDS.PIP.51.02	EDS.PIP.51.02	PIPING ARRG T No	N/A
CLASS	I	II	LINE Nos	P-0403-12" XB
INSULATION SPEC	P-1"	P-1"	FROM	D-311 B
PAINT SPEC	N/A	N/A	TO	E-312 B
CLEANING SPEC	EDS.PIP.51.02	EDS.PIP.51.02	FLUID(S)	SULPHUR C/VAPOUR
TEST SPEC	EDS.Ap.64101	N/A	PLANT	T7
RADIOGRAPHY	100%	100%	BUSINESS AREA	OXIDATION/REACTION
STRESS RELIEVE	YES	N/A	STRESS CALC No.	N/A
DESIGN PRESS	29.3 BAR G	BAR G	REGISTERED LINE	YES NO
OPERATING PRESS	26.5 BAR G	ATMOS BAR G	REGISTERED PACK No	TA7-P-011
DESIGN TEMP	252 °C	252 °C	PROJECT NUMBER	11407
OPERATING TEMP	224 °C	224 °C		
PIPE HYDRAULIC TEST	44 BAR G	Service Leak BAR G		

PI ISSUED FOR COMMENT

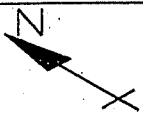
REF. DRGS/DOCUMENTS:
FIRST PROPOSAL P-04101
SECOND PROPOSAL P-04102

APPROVED	SECTION	DATE
	PROJECTS	
	WORKS	
	INSTRUMENTS	

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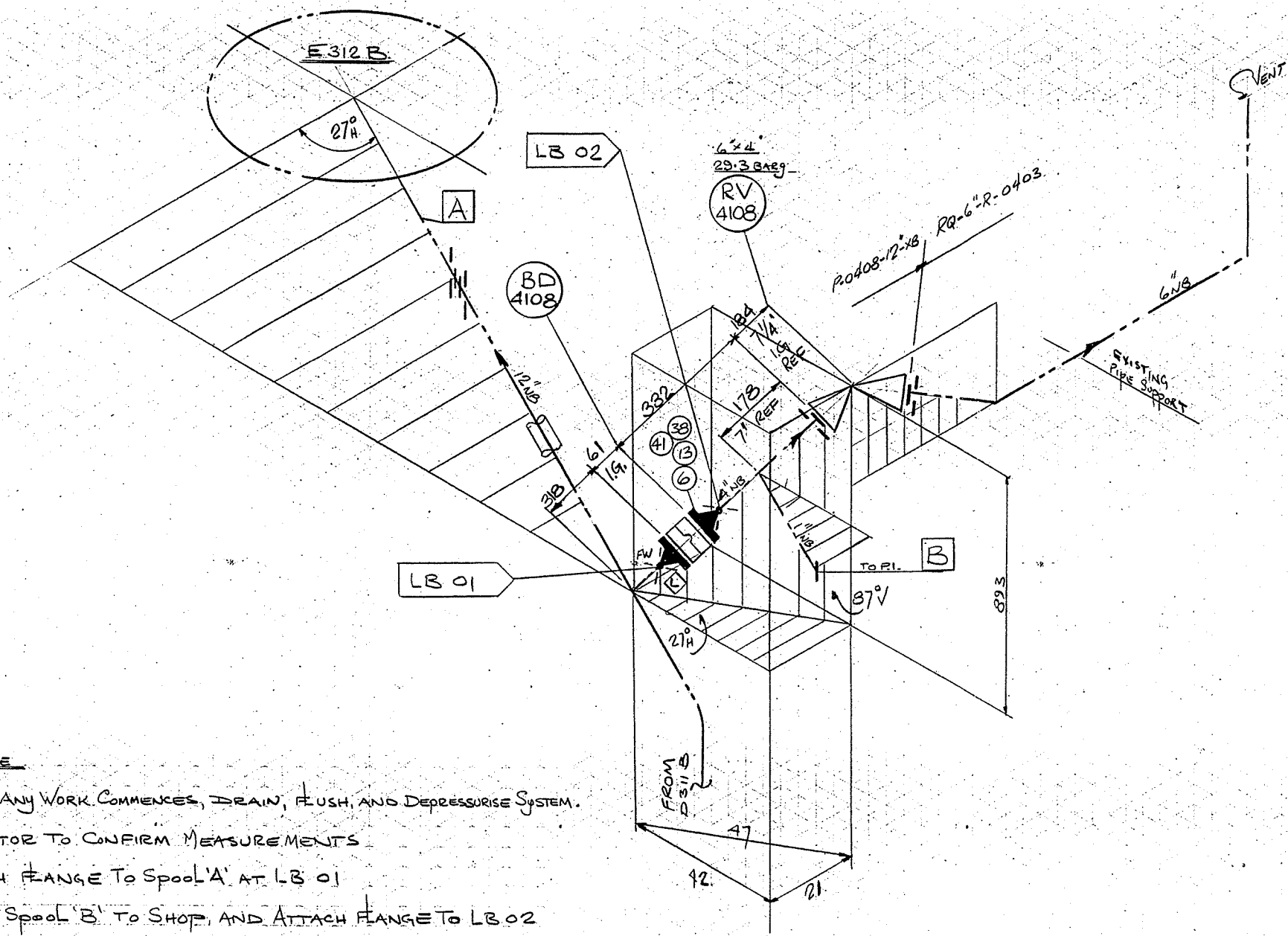
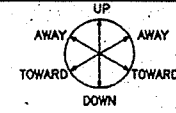
**DuPont SA**

E-312B. REPLACEMENT OF BUSTING DISC ASSEMBLY BD 4108  
DESTRUCTION ISOMETRIC.  
ISOMETRIC ORG. No. P-04100  
REV P1



— X X — INDICATES MAKE UP PIPE TO BE WELDED AT SITE  
 — X — INDICATES BREAK IN PIPE TO BE WELDED AT SITE  
 ⊕ INDICATES FLANGE LEFT LOOSE AND WELDED AT SITE

100mm SHOP RUN OUT, TO BE PROVIDED AT A MAKE UP LENGTH OR LOOSE FLANGE  
 UNLESS NOTED OTHERWISE.  
 ALL FLANGES TO BE DRILLED OFF CENTRES, AND ALL BENDS TO BE 90° UNLESS  
 NOTED OTHERWISE.



**Work Scope**

1. BEFORE ANY WORK COMMENCES, DRAIN, FLUSH, AND DEPRESSURISE SYSTEM.
2. CONTRACTOR TO CONFIRM MEASUREMENTS
3. ATTACH FLANGE TO SPOOL 'A' AT LB 01
4. REMOVE SPOOL 'B' TO SHOP, AND ATTACH FLANGE TO LB 02
5. NEW FLANGE AT LB 01 TO BE HYDROTESTED AND 100% RADIOGRAPHY.
6. NEW FLANGE AT LB 02 TO BE HYDROTESTED AND 100% RADIOGRAPHY.

DESCRIPTION OF MATERIAL		SIZE	REMARKS
SCH. or RATING	TYPE		ORDER No
		4"	
PIPING			
FLANGES	300 WN TITANIUM GR 130	2	OUT OF SPEC
GASKETS	300 SpWb IBC TYPE G13	2	
VALVES			
FITTINGS			
	STUD BOLT M20 x 175 Lg.	8	
	ASTM A193 GR B7 BOLT ASTM A194 GR 2H NUT		
	BURSTING DISC + ASSEMBLY	1	

LINE SPEC	X B	LINE DIAGRAM No	FWA/405131 SHT 30E9
FAB. SPEC	EDS.P.P. 51.02	PIPING ARRGT No	N/A
CLASS	I	LINE Nos	P0403 AND R-0408
INSULATION SPEC	P-25mm	FROM	D 311 B
PAINT SPEC	N/A	TO	E 312 B + Atmos
CLEANING SPEC	EDS.P.P. 51.02	FLUID(S)	SULPHURIC VAPOR
TEST SPEC	EDS.P.P. 64.01	PLANT	T7
RADIOGRAPHY	100%	BUSINESS AREA	OXIDATION REACTION
STRESS RELIEVE	Yes	STRESS CALC No.	N/A
DESIGN PRESS	29.3 BAR G	REGISTERED LINE	YES NO
OPERATING PRESS	26.5 BAR G	REGISTERED PACK No	TA7-P-011
DESIGN TEMP	252 °C	PROJECT NUMBER	11407
OPERATING TEMP	224 °C		
PIPE HYDRAULIC TEST	4.4 BAR G		

PI	ISSUED FOR COMMENT		
REV	REVISION	CHKD	DATE

REF. DRGS/DOCUMENTS:  
 DESTRUCTION ISOMETRIC P-04100  
 FIRST PROPOSAL P-04101

APPROVED	SECTION	DATE
	PROJECTS	
	WORKS	
	INSTRUMENTS	

DRAWN: M. GREEN 30-5-01  
 CHECKED: [ ]  
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**DuPont SA**  
 E-312B REPLACEMENT OF BURSTING DISC ASSEMBLY BD 4108 SECOND PROPOSAL  
 ISOMETRIC DRG. No. P-04102  
 REV PI