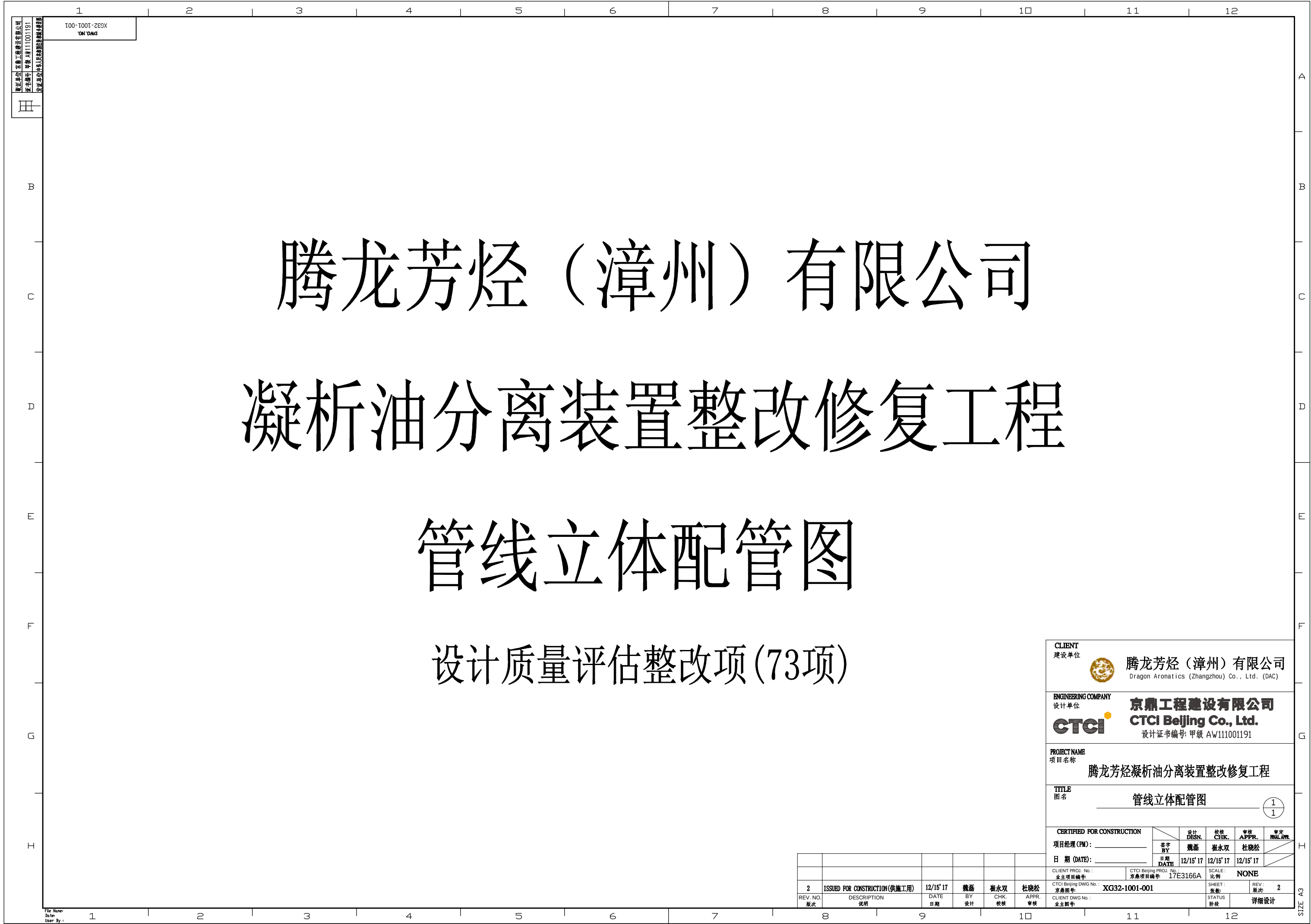




腾龙芳烃（漳州）有限公司
设计单位：京鼎工程技术有限公司
设计证书编号：甲级 AW111001191

T00-1001-283X

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CLIENT 建设单位		 腾龙芳烃（漳州）有限公司 Dragon Aromatics (Zhangzhou) Co., Ltd. (DAC)			
ENGINEERING COMPANY 设计单位		 京鼎工程技术有限公司 CTCI Beijing Co., Ltd. 设计证书编号：甲级 AW111001191			
PROJECT NAME 项目名称		腾龙芳烃凝析油分离装置整改修复工程			
TITLE 图名		管线立体配管图			1 1
CERTIFIED FOR CONSTRUCTION		设计 DESIGN	校核 CHK.	审核 APPR.	审定 FINAL APPR.
项目经理 (PM):		签字 BY	魏磊	崔永双	杜晓松
日期 (DATE):		日期 DATE	12/15' 17	12/15' 17	12/15' 17
CLIENT PROJ. No.: 京鼎项目编号:		CTCI Beijing PROJ. No.: 17E3166A		SCALE: 比例: NONE	
CTCI Beijing DWG No.: 京鼎图号:		XG32-1001-001		SHEET: 张数:	REV: 版本: 2
CLIENT DWG No.: 业主图号:				STATUS 阶段: 详细设计	

2	ISSUED FOR CONSTRUCTION(供施工用)	12/15' 17	魏磊	崔永双	杜晓松
REV. NO. 版次	DESCRIPTION 说明	DATE 日期	BY 设计	CHK. 校核	APPR. 审核

A/G PIPING ISOMETRIC DRAWING LIST



京鼎工程建设有限公司
CTCI Beijing Co., Ltd.

凝析油分离装置整改修复工程
(设计质量评估整改技73项)

CLIENT: 腾龙芳烃（漳州）有限公司							
PROJECT NAME: 凝析油分离装置整改修复工程							
PROJECT NO: 17E3166A							
SER.	DWG NO	SH'T	LINE NO	AREA	REVISION DATE		REMARK
		NO			REV.2	REV.3	
1	13-CS-26014 OLD	1/6	13-1 1/2"-CS-26014-A51SF	73-38	12/15/2017		SJ-PX-LPEC-1886
2	13-FG-18001 OLD	7/6	13-10"-FG-18001-A51F-ST	73-38	12/15/2017		SJ-PX-LPEC-1886
3	13-FLG-32001 OLD	5/8	13-48"-FLG-32001-A51F	73-46	12/15/2017		SJ-PX-LPEC-Z0633/Z0635
4	13-LA-18005 OLD	1/10	13-6"-LA-18005-A5S1F	73-38	12/15/2017		SJ-PX-LPEC-1886
5	XG32-13-LS0-08024	1/1	13-8"-LS0-08024-A51F	73-41	12/15/2017		SJ-PX-LPEC-1900
6	13-LS0-08024 OLD	1/1	13-8"-LS0-08024-A51F	73-41	12/15/2017		SJ-PX-LPEC-1900
7	13-LS0-08002 OLD	3/3	13-10"-LS0-08024-A51F	73-38	12/15/2017		SJ-PX-LPEC-1886
8	XG32-13-OG-08004A	1/4	13-3/4"-OG-08004A-A53F	73-46	12/15/2017		SJ-PX-LPEC-Z0635
9	XG32-13-OG-08004A	2/4	13-3/4"-OG-08004A-A53F	73-46	12/15/2017		SJ-PX-LPEC-Z0635
10	XG32-13-OG-08004A	3/4	13-3/4"-OG-08004A-A53F	73-46	12/15/2017		SJ-PX-LPEC-Z0635
11	XG32-13-OG-08004A	4/4	13-3/4"-OG-08004A-A53F	73-46	12/15/2017		SJ-PX-LPEC-Z0635
12	XG32-13-OG-08004B	1/4	13-3/4"-OG-08004B-A53F	73-46	12/15/2017		SJ-PX-LPEC-Z0635
13	XG32-13-OG-08004B	2/4	13-3/4"-OG-08004B-A53F	73-46	12/15/2017		SJ-PX-LPEC-Z0635
14	XG32-13-OG-08004B	3/4	13-3/4"-OG-08004B-A53F	73-46	12/15/2017		SJ-PX-LPEC-Z0635
15	XG32-13-OG-08004B	4/4	13-3/4"-OG-08004B-A53F	73-46	12/15/2017		SJ-PX-LPEC-Z0635
16	13-P-01001 OLD	1/9	13-12"-P-01001-A53F	73-38	12/15/2017		SJ-PX-LPEC-1886
17	XG32-13-P-01010	1/2	13-8"-P-01010-A53F	73-42	12/15/2017		SJ-PX-LPEC-Z0631
18	XG32-13-P-01010	2/2	13-8"-P-01010-A53F	73-42	12/15/2017		SJ-PX-LPEC-Z0631
19	13-P-01010 OLD	1/1	13-8"-P-01010-A53F	73-42	12/15/2017		SJ-PX-LPEC-Z0631
20	13-P-01011 OLD	1/1	13-8"-P-01011-A51F	73-42	12/15/2017		SJ-PX-LPEC-Z0631
21	XG32-13-P-01014	1/1	13-8"-P-01014-A53F	73-42	12/15/2017		SJ-PX-LPEC-Z0631
22	XG32-13-P-01015	1/1	13-8"-P-01015-A51F	73-42	12/15/2017		SJ-PX-LPEC-Z0631
23	13-P-08004 OLD	8/10	13-8"-P-08004-A53F	73-46	12/15/2017		SJ-PX-LPEC-Z0635
24	13-P-08005 OLD	2/5	13-4"-P-08005-A53F	73-46	12/15/2017		SJ-PX-LPEC-Z0635
25	13-P-12005 OLD	8/8	13-8"-P-12005-A51F	73-38	12/15/2017		SJ-PX-LPEC-1886
26	13-P-14011 OLD	12/12	13-8"-P-14011-A53F-H	73-38	12/15/2017		SJ-PX-LPEC-1886
27	13-P-15003 OLD	1/5	13-14"-P-15003-A51F-H	73-35	12/15/2017		SJ-PX-LPEC-1862
28	XG32-13-P-26037	1/1	13-3/4"-P-26037-A51F	73-58	12/15/2017		SJ-PX-LPEC-Z0649
29	13-RA-18003 OLD	15/15	13-4"-RA-15003-A5S1F	73-38	12/15/2017		SJ-PX-LPEC-1886
30	13-RCS-26010 OLD	4/7	13-1 1/2"-RCS-26010-A5S1F-H	73-32	12/15/2017		SJ-PX-LPEC-1838

| FABRICATION MATERIALS |

PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY
1	HALF CPLG 3000# SW, CS A105 ASME	48 x 3/4	SHA7511000021	1
2	90 ELL 3000# SW, CS A105 ASME	3/4	NEA7511000021	3
3	FULL CPLG 3000# SW, CS A105 ASME	3/4	SFA7511000021	1

| ERECTION MATERIALS |

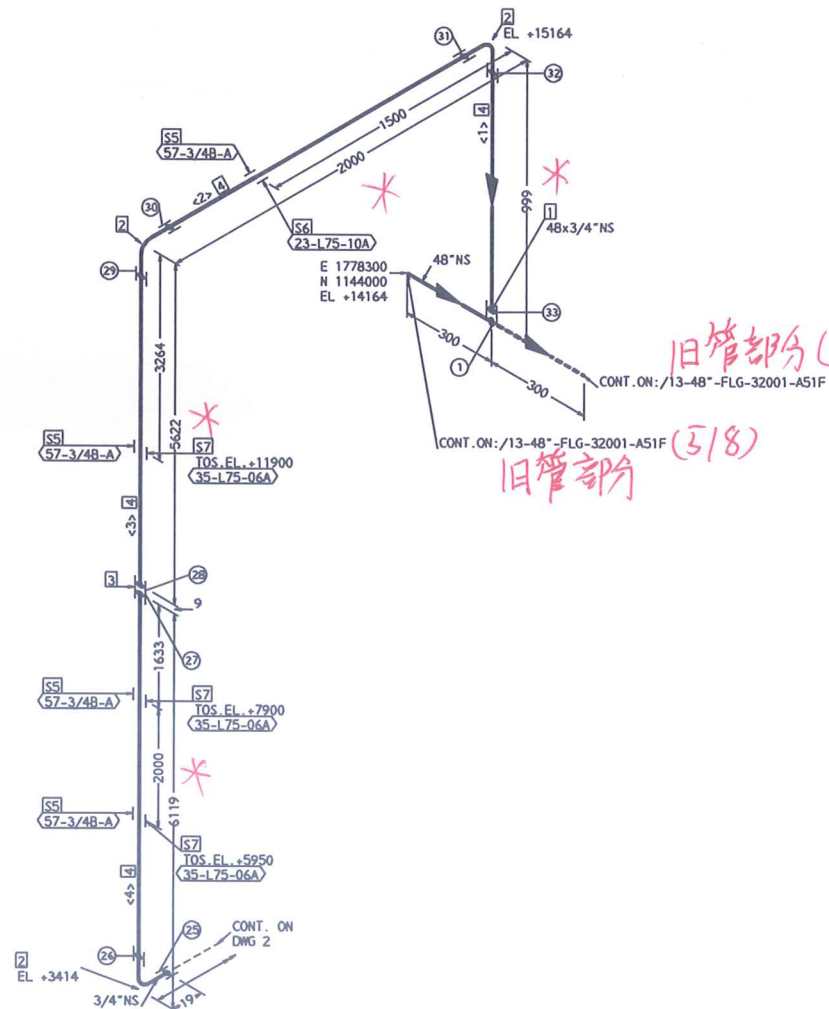
PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY
4	PIPE, SMLS, PE, S-80, CS A106-B ASME	3/4	PPA1115A80021	14.1M

SUPPORTS

5	PIPE SUPPORT		57-3/4B-A	4
6	PIPE SUPPORT		23-L75-10A	1
7	PIPE SUPPORT		35-L75-06A	3

| CUT PIPE LENGTH |

PIECE NO	CUT LENGTH	N.S. (IN)	REMARKS	PIECE NO	CUT LENGTH	N.S. (IN)	REMARKS
<1>	347	3/4		<2>	1962	3/4	
<3>	5603	3/4		<4>	6100	3/4	



* 依现场实际调整

OPER. TEMP.	50	°C	PAINTING				REF. DWG.				 腾龙芳烃（漳州）有限公司 Dragon Aromatics (Zhangzhou) Co., Ltd. (DAC)					
OPER. PRESS.	3.04	MPa(g)	CODE	PER. SPEC				XG31-0201-130, 0201-318D								
DESIGN TEMP.	80	°C	INSULATION				NOTE				 京福工程建设有限公司 CTCI Beijing Co., Ltd. 北京京福工程咨询有限公司					
DESIGN PRESS.	3.8	MPa(g)														
TEST PRESSURE	5.7	MPa(g)	NPS TYPE									FOR 腾龙芳烃原油分离装置整改修复工程				
TEST FLUID	HYDRO.											TITLE PIPING ISOMETRIC DWG				
INSPECTION X-RAY	10	%										PROJ. NO.	17B3166A	UNIT	73-46	
P.V.H.T	NO											DRAWN	WL	DATE 12/08/2017	REV.	2
CATEGORY	-								2	FOR CONSTRUCTION	CYS	DXS	12/15 2017	LINE NO.	13-3/4"-OG-08004A-A53F	
									REV.	DESCRIPTION	CHKD	APPR	DATE	DWG. NO.	XG32-13-OG-08004A	
															1 OF 4	

| FABRICATION MATERIALS |

PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY
1	90 ELL 3000# SW, CS A105 ASME	3/4	NEA7511000021	3
2	SW FLG 300# RF S-80, CS A105 ASME	3/4	FKA3111A80015	1

| ERECTION MATERIALS |

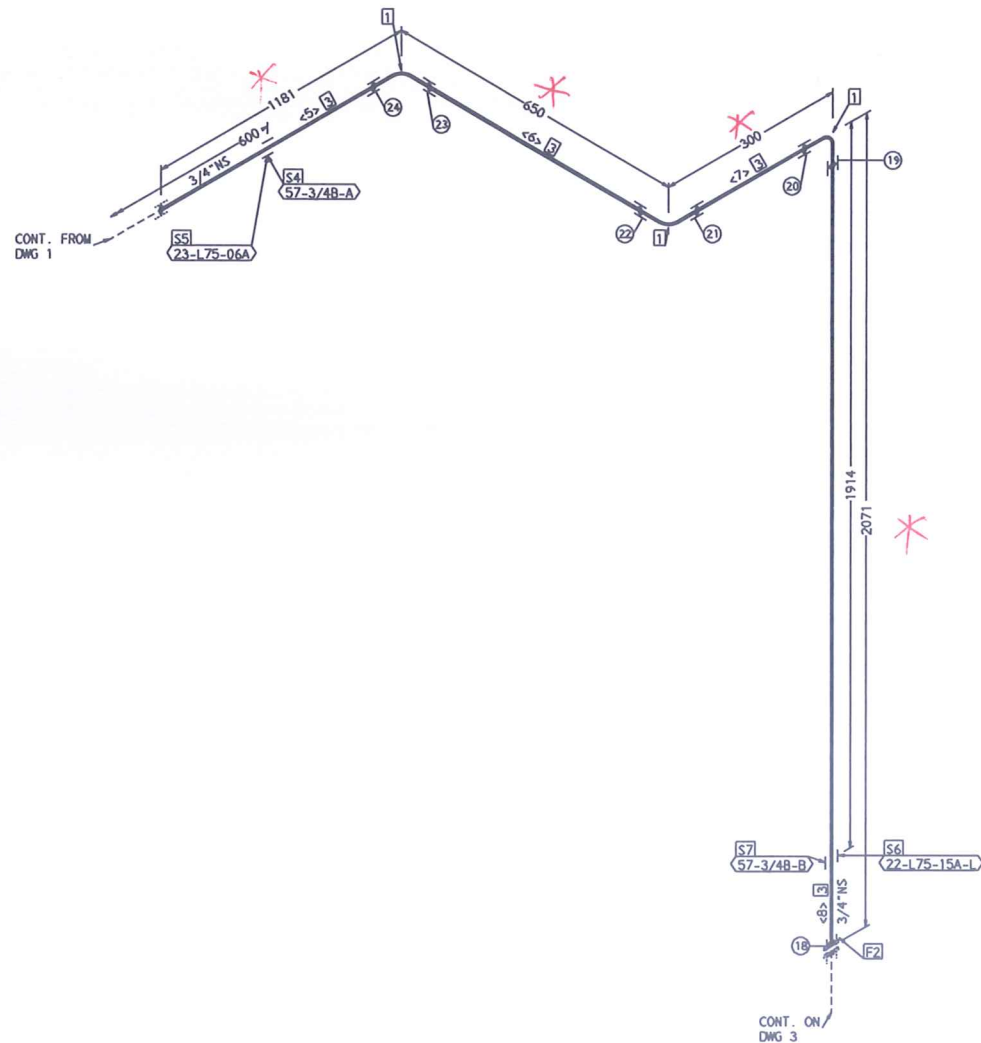
PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY
3	PIPE, SMLS, PE, S-80, CS A106-B ASME	3/4	PPA1115A80021	4.1M

SUPPORTS

4	PIPE SUPPORT	57-3/4B-A	1
5	PIPE SUPPORT	23-L75-06A	1
6	PIPE SUPPORT	22-L75-15A-L	1
7	PIPE SUPPORT	57-3/4B-B	1

| CUT PIPE LENGTH |

PIECE NO	CUT LENGTH	N.S. (IN)	REMARKS	PIECE NO	CUT LENGTH	N.S. (IN)	REMARKS
<5>	1162	3/4		<6>	612	3/4	
<7>	262	3/4		<8>	2043	3/4	



“*” 依现场实际调整

OPER. TEMP.	50 °C	PAINTING	REF. DWG.	腾龙芳烃（漳州）有限公司 Dragon Air Lines (Zhangzhou) Co., Ltd. (DAC) 京龍工程建設有限公司 CTCI Beijing Co., Ltd. 北京中德工程咨询有限公司			
OPER. PRESS.	3.04 MPa(g)	CODE	PER. SPEC				
DESIGN TEMP.	80 °C	INSULATION	NOTE	FOR 腾龙芳烃原油分高装置检修工程			
TEST PRESSURE	5.7 MPa(g)	HPS TYPE		TITLE PIPING ISOMETRIC DWG			
TEST FLUID	HYDRO.			PROJ. NO.	17B3166A	UNIT	73-46
INSPECTION X-RAY	10 %			DRAWN	WL	DATE	12/08/2017
P.W.H.T	NO			LINE NO.	13-3/4"-OG-08004A-A53F	REV.	2
CATEGORY	-			DWG. NO.	XG32-13-OG-08004A	SHEET 2 OF 4	

| ERECTION MATERIALS || CUT PIPE LENGTH |[illegible]

“*”依现场实际调整

OPER. TEMP.	50	°C	PAINTING			REF. DWG.			 腾龙芳烃（漳州）有限公司 Dragon Aromatic Inc. (Zhangzhou) Co., Ltd. (DABC)						
OPER. PRESS.	3.04	MPa(g)	CODE	PER. SPEC			XG31-0201-130,0201-318D			 京福工程建设有限公司 CTCI Beijing Co., Ltd. 北京市昌平区回龙观镇西大街101号1015室					
DESIGN TEMP.	80	°C					NOTE			FOR					
DESIGN PRESS.	3.8	MPa(g)	INSULATION						腾龙芳烃煤油分高装置整改修复工程						
TEST PRESSURE	5.7	MPa(g)	HPS TYPE								TITLE PIPING ISOMETRIC DWG				
TEST FLUID	HYDRO.									PROJ. NO.	17E3166A	UNIT	73-46		
INSPECTION X-RAY	10	%								DRAWN	WL	DATE	12/08/2017	REV.	2
P.W.H.T	NO					2	FOR CONSTRUCTION	CYS	DXS	12/15	LINE NO.	13-3/4"-OG-08004A-A53F			SHEET
CATEGORY	-					REV.	DESCRIPTION	CHKD	APPR	DATE	DWG. NO.	XG32-13-OG-08004A			3 OF 4

FABRICATION MATERIALS

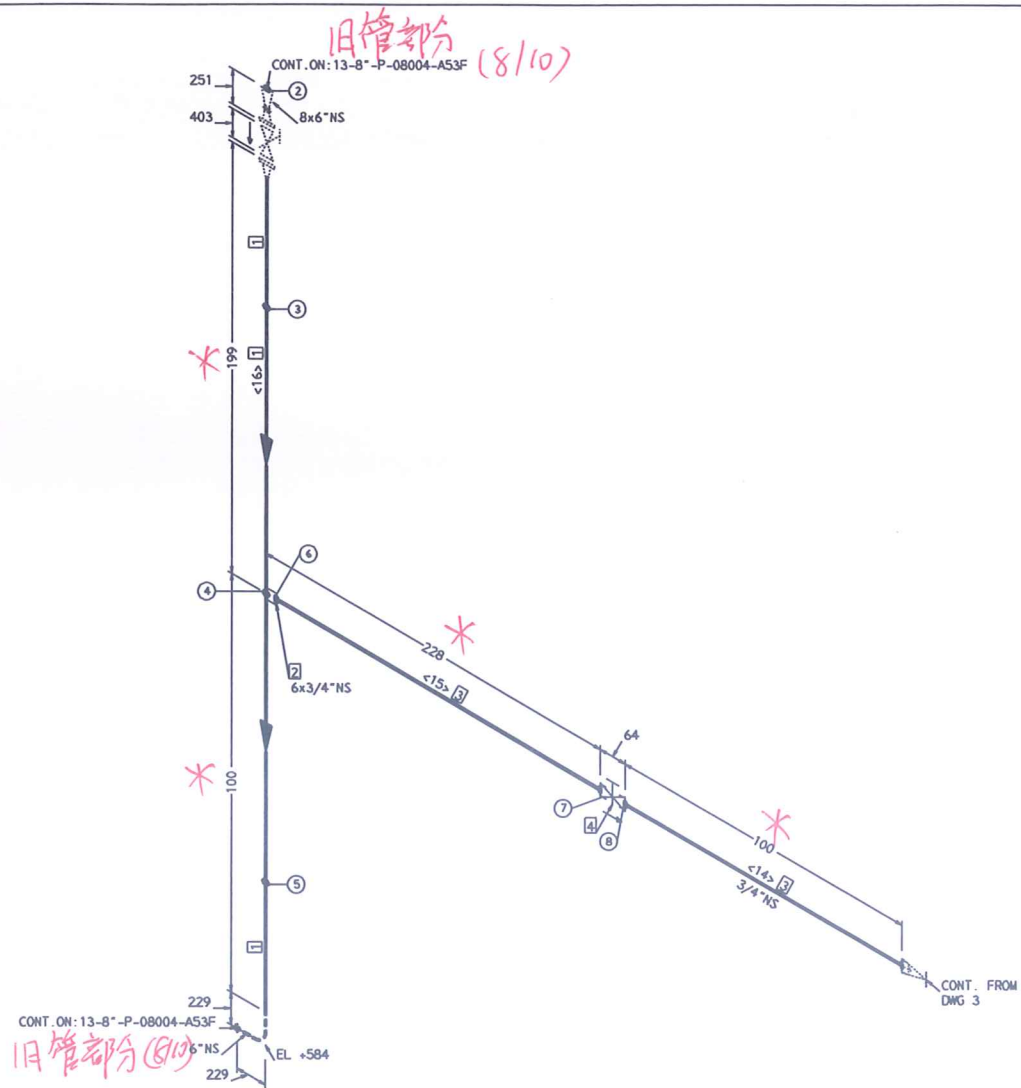
PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY
1	PIPE, SMLS, BE, S-40, CS A106-B ASME	6	PPA1415A40021	0.2M
2	HALF CPLG 6000# SW, CS A105 ASME	6 x 3/4	SHA8511000021	1

ERECTION MATERIALS

PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY
3	PIPE, SMLS, PE, S-160, CS A106-B ASME	3/4	PPA1115AD0021	0.3M
4	GATE VALVE, 800# SW, CS A105 BODY 13CR AND HARD FACED TR API TR #8 SOLID WG OS&Y BB API-602	3/4	VGA8512000111	1

CUT PIPE LENGTH

PIECE NO	CUT LENGTH	N.S. (IN)	REMARKS	PIECE NO	CUT LENGTH	N.S. (IN)	REMARKS
<14>	100	3/4		<15>	120	3/4	
<16>	200	6					



* 依现场实际调整

OPER. TEMP.	50 °C	PAINTING	REF. DWG.	XG31-0201-130, 0201-3180				 腾龙芳烃(漳州)有限公司			
OPER. PRESS.	3.04 MPa(g)	CODE	NOTE								
DESIGN TEMP.	80 °C	PER. SPEC						京瑞工程建设有限公司 CTCI Beijing Co., Ltd. 北京瑞泰工程技术有限公司			
DESIGN PRESS.	3.8 MPa(g)	INSULATION						腾龙芳烃原油分离装置整改修复工程			
TEST PRESSURE	5.7 MPa(g)	NPS TYPE						TITLE PIPING ISOMETRIC DWG			
TEST FLUID	HYDRO.							PROJ. NO.	17B3166A	UNIT	73-46
INSPECTION X-RAY	10 %							DRAWN	WL	DATE	12/08/2017
P.W.H.T	NO							LINE NO.	13-3/4"-OG-08004A-A53F	REV.	2
CATEGORY	-							DWG. NO.	XG32-13-OG-08004A	SHEET 4 OF 4	

| FABRICATION MATERIALS |

PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY
1	HALF CPLG 3000# SW, CS A105 ASME	48 x 3/4	SHA7511000021	1
2	90 ELL 3000# SW, CS A105 ASME	3/4	NEA7511000021	3

| ERECTION MATERIALS |

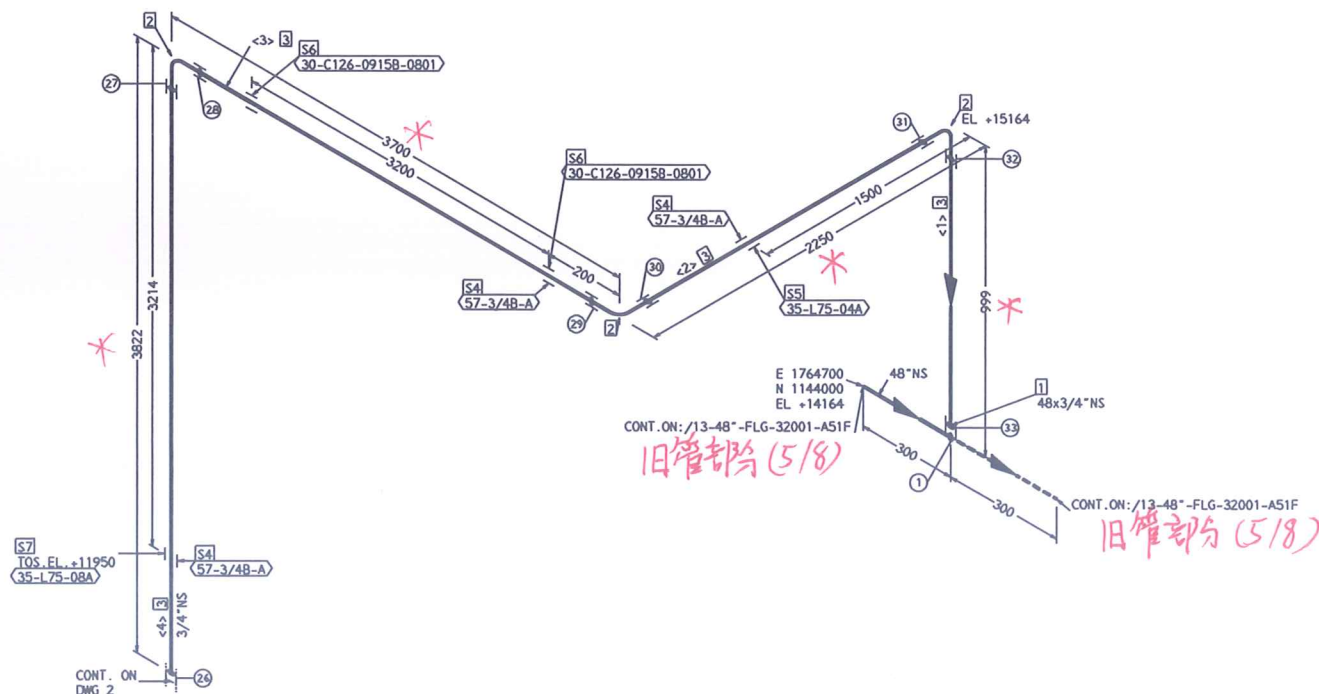
PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY
3	PIPE, SMLS, PE, S-80, CS A106-B ASME	3/4	PPA1115A80021	10.1M

SUPPORTS

4	PIPE SUPPORT	57-3/4B-A	3
5	PIPE SUPPORT	35-L75-04A	1
6	PIPE SUPPORT	30-C126-0915B-0801	2
7	PIPE SUPPORT	35-L75-08A	1

| CUT PIPE LENGTH |

PIECE NO	CUT LENGTH	N.S. (IN)	REMARKS	PIECE NO	CUT LENGTH	N.S. (IN)	REMARKS
<1>	347	3/4		<2>	2212	3/4	
<3>	3662	3/4		<4>	3803	3/4	



** 依现场实际调整

OPER. TEMP.	50	°C	PAINTING				REF. DWG.				 腾龙芳烃(漳州)有限公司 Dragon Aromatics (Changzhou) Co., Ltd. (DAC)					
OPER. PRESS.	3.04	MPa(g)	CODE	PER. SPEC											NOTE	
DESIGN TEMP.	80	°C														
DESIGN PRESS.	3.8	MPa(g)	INSULATION				FOR 腾龙芳烃凝析油分离装置整改修复工程									
TEST PRESSURE	5.7	MPa(g)	NPS TYPE													TITLE
TEST FLUID	HYDRO.											PROJ. NO.	17B3166A	UNIT	73-46	
INSPECTION X-RAY	10	%										DRAWN	WL	DATE 12/08/2017	REV.	2
P.V.H.T	NO							2	FOR CONSTRUCTION	CYS	DXS	12/15 2017	LINE NO.	13-3/4"-OG-08004B-A53F		SHEET
CATEGORY	-							REV.	DESCRIPTION	CHKD	APPR	DATE	DWG. NO.	XG32-13-OG-08004B		1 OF 4

| FABRICATION MATERIALS |

PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY
1	FULL CPLG 3000# SW, CS A105 ASME	3/4	SFA7511000021	2
2	90 ELL 3000# SW, CS A105 ASME	3/4	NEA7511000021	1

| ERECTION MATERIALS |

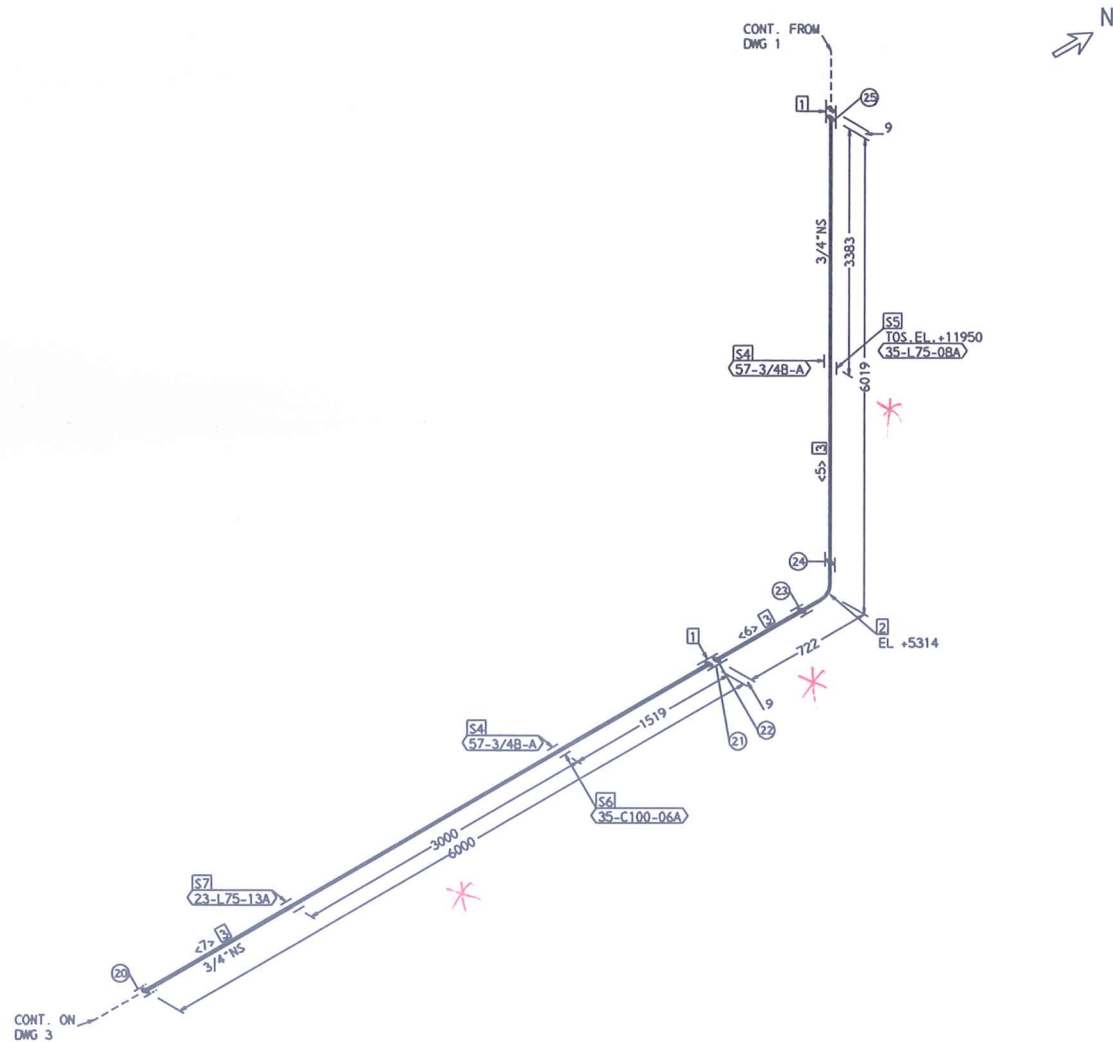
PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY
3	PIPE, SMLS, PE, S-80, CS A106-B ASME	3/4	PPA1115A80021	12.8M

SUPPORTS

4	PIPE SUPPORT	57-3/4B-A	2
5	PIPE SUPPORT	35-L75-08A	1
6	PIPE SUPPORT	35-C100-06A	1
7	PIPE SUPPORT	23-L75-13A	1

| CUT PIPE LENGTH |

PIECE NO	CUT LENGTH	N.S. (IN)	REMARKS	PIECE NO	CUT LENGTH	N.S. (IN)	REMARKS
<5>	6000	3/4		<6>	703	3/4	
<7>	6000	3/4					



“*” 依现场实际调整

OPER. TEMP.	50	°C	PAINTING				REF. DWG.				 腾龙芳烃（漳州）有限公司 Dragon Acoustics (Zhangzhou) Co., Ltd. (DAC)  京福工程建设有限公司 CTCI Beijing Co., Ltd. 北京京福工程 有限 公司 FOR 腾龙芳烃煤析油分离装置检修工程							
OPER. PRESS.	3.04	MPa(g)	CODE												NOTE			
DESIGN TEMP.	80	°C	PER. SPEC															
DESIGN PRESS.	3.8	MPa(g)	INSULATION															
TEST PRESSURE	5.7	MPa(g)	NPS TYPE									TITLE PIPING ISOMETRIC DWG						
TEST FLUID	HYDRO.											PROJ. NO.	17B3166A	UNIT	73-46			
INSPECTION X-RAY	10	%										DRAWN	WL	DATE	12/08/2017	REV.	2	
P.V.H.T	NO							2	FOR CONSTRUCTION		CYS	DXS	12/15 2017	LINE NO.	13-3/4"-OG-080048-A53F			SHEET
CATEGORY	-							REV.	DESCRIPTION		CHKD	APPR	DATE	DWG. NO.	XG32-13-OG-080048			2 OF 4

FABRICATION MATERIALS

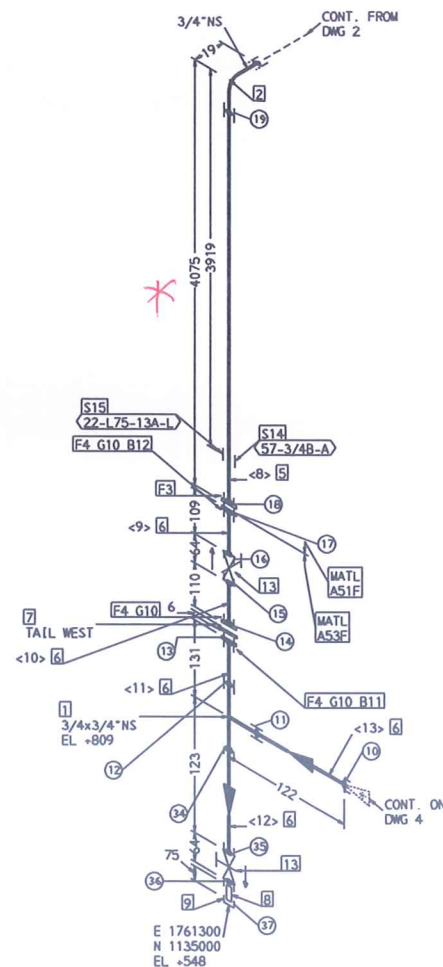
PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY
1	TEE, 6000# SW, CS A105 ASME	3/4 x 3/4	STA8511000021	1
2	90 ELL 3000# SW, CS A105 ASME	3/4	NEA7511000021	1
3	SW FLG 300# RF S-80, CS A105 ASME	3/4	FKA3111A80015	1
4	SW FLG 300# RF S-160, CS A105 ASME	3/4	FKA3111AD0015	3

ERECTION MATERIALS

PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY
5	PIPE, SMLS, PE, S-80, CS A106-B ASME	3/4	PPA1115A80021	4.1M
6	PIPE, SMLS, PE, S-160, CS A106-B ASME	3/4	PPA1115AD0021	0.5M
7	SPECTACLE BLD 300# RF CS A105 ASME	3/4	GDA3111000029	1
8	PIPE NIPPLE, SMLS, POE/TOE, S-160, CS A106-B L=75MM (3"), ASME	3/4	PNA1D15AD0321	1
9	CAP, 6000# FNPT, CS A105 ASME	3/4	NCAB211000021	1
10	GASKET, 300# RF, 4.5MM(3/16") SP-WD SS 316 AND FILLER FLEX. GRAPHITE ASB. FREE W/ I.R. SS 316 AND O.R. LOW CS ASME	3/4	GKA3APE0300B1	3
11	90 MM BOLT LENGTH, BOLT & NUT METRIC, COARSE, STUD AS A193-B7 W/ NUTS A194-2H ISO	16 MM	GMA04310000E1	4
12	80 MM BOLT LENGTH, BOLT & NUT METRIC, COARSE, STUD AS A193-B7 W/ NUTS A194-2H ISO	16 MM	GMA04310000E1	4
13	GATE VALVE, 800# SW, CS A105 BODY 13CR AND HARD FACED TR API TR #8 SOLID WG OS&Y BB API-602	3/4	VGA8512000111	2
SUPPORTS				
14	PIPE SUPPORT		57-3/4B-A	1
15	PIPE SUPPORT		22-L75-13A-L	1

CUT PIPE LENGTH

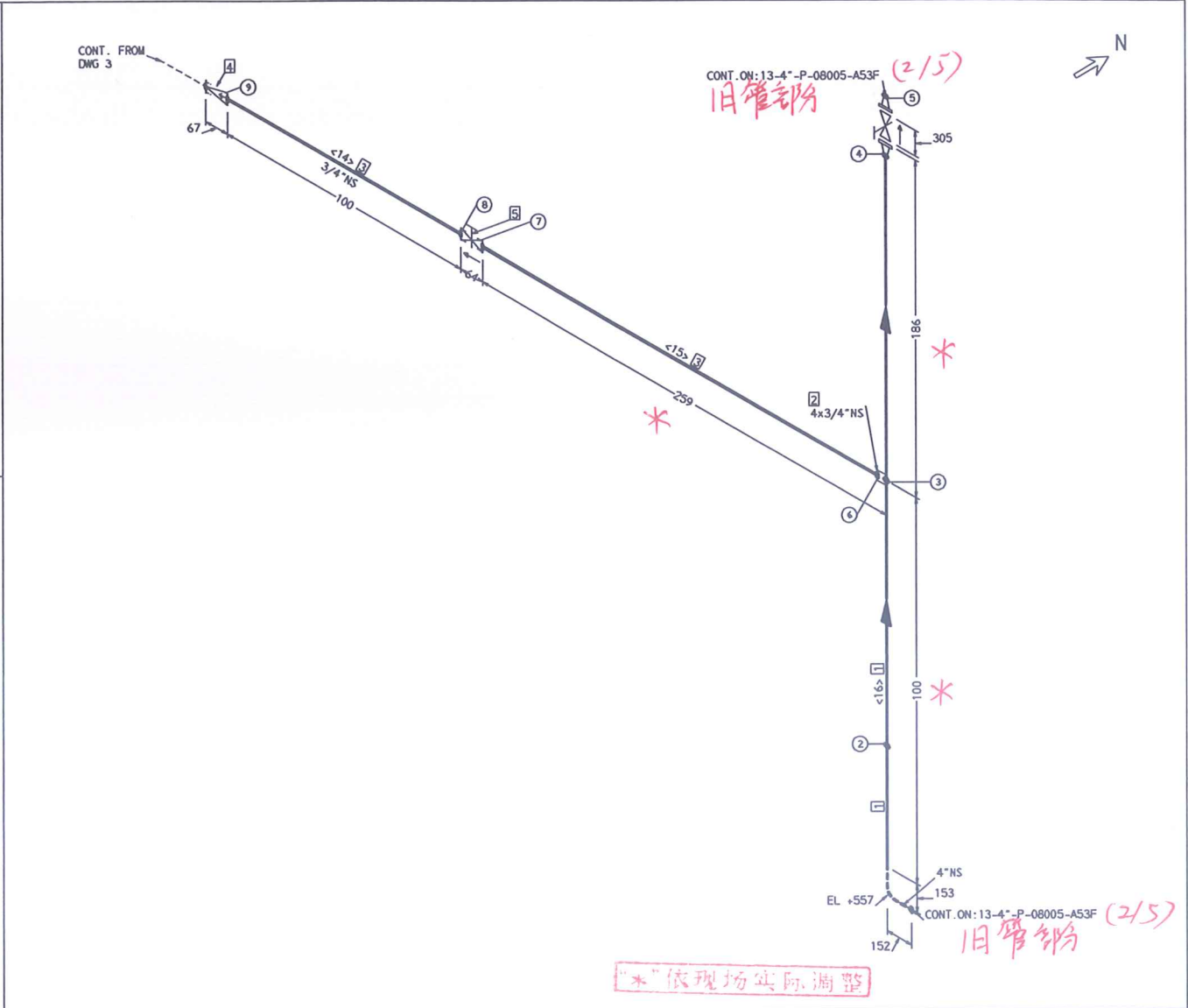
PIECE NO	CUT LENGTH	N.S. (IN)	REMARKS	PIECE NO	CUT LENGTH	N.S. (IN)	REMARKS
<8>	4046	3/4		<9>	100	3/4	
<10>	100	3/4		<11>	100	3/4	
<12>	100	3/4		<13>	100	3/4	



“*” 依现场实际调整

OPER. TEMP.	50	°C	PAINTING				REF. DWG.				 腾龙芳烃（漳州）有限公司 Dragon Armatix (Changzhou) Co., Ltd. (DAC)  京福工程建设有限公司 CTCI Beijing Co., Ltd. 注册地: 中国北京 邮编: 100101 FOR 腾龙芳烃凝析油分离装置整改修复工程						
OPER. PRESS.	3.04	MPa(g)	CODE	PER. SPEC											NOTE		
DESIGN TEMP.	80	°C															
DESIGN PRESS.	3.8	MPa(g)	INSULATION														
TEST PRESSURE	5.7	MPa(g)	NPS TYPE									TITLE PIPING ISOMETRIC DWG					
TEST FLUID	HYDRO.											PROJ. NO.	17B3166A	UNIT	73-46		
INSPECTION X-RAY	10	%										DRAWN	WL	DATE	12/08/2017	REV.	2
P.W.H.T	NO							2	FOR CONSTRUCTION		CYS	DXS	12/15 2017	LINE NO.	13-3/4"-OG-08004B-A53F		SHEET
CATEGORY	-							REV.	DESCRIPTION		CHKD	APPR	DATE	DWG. NO.	XG32-13-OG-08004B		3 OF 4

PIECE	CUT	N. S.	REMARKS	PIECE	CUT	N. S.	REMARKS
NO	LENGTH	(IN)		NO	LENGTH	(IN)	
<14>	100	3/4		<15>	178	3/4	
<16>	200	4					



OPER. TEMP.	50	°C	PAINTING				REF. DWG.				 腾龙芳烃(漳州)有限公司 Dragon Armetics (Zhangzhou) Co., Ltd. (DAC)						
OPER. PRESS.	3.04	MPa(g)	CODE	PER. SPEC							NOTE				 京福工程建设有限公司 CTCI Beijing Co., Ltd. 北京经济技术开发区 安泰 601101(0101)		
DESIGN TEMP.	80	°C						INSULATION							FOR		
DESIGN PRESS.	3.8	MPa(g)															
TEST PRESSURE	5.7	MPa(g)	MPa TYPE									TITLE PIPING ISOMETRIC DWG					
TEST FLUID	HYDRO.											PROJ. NO.	17E3166A	UNIT	73-46		
INSPECTION X-RAY	10	%										DRAWN	WL	DATE 12/08/2017	REV.	2	
P.W.H.T	NO							2	FOR CONSTRUCTION	CYS	DXS	12/15 2017	LINE NO.	13-3/4"-0G-08004B-A53F			SHEET
CATEGORY	-							REV.	DESCRIPTION	CHKD	APPR	DATE	DWG. NO.	XG32-13-0G-08004B			4 OF 4

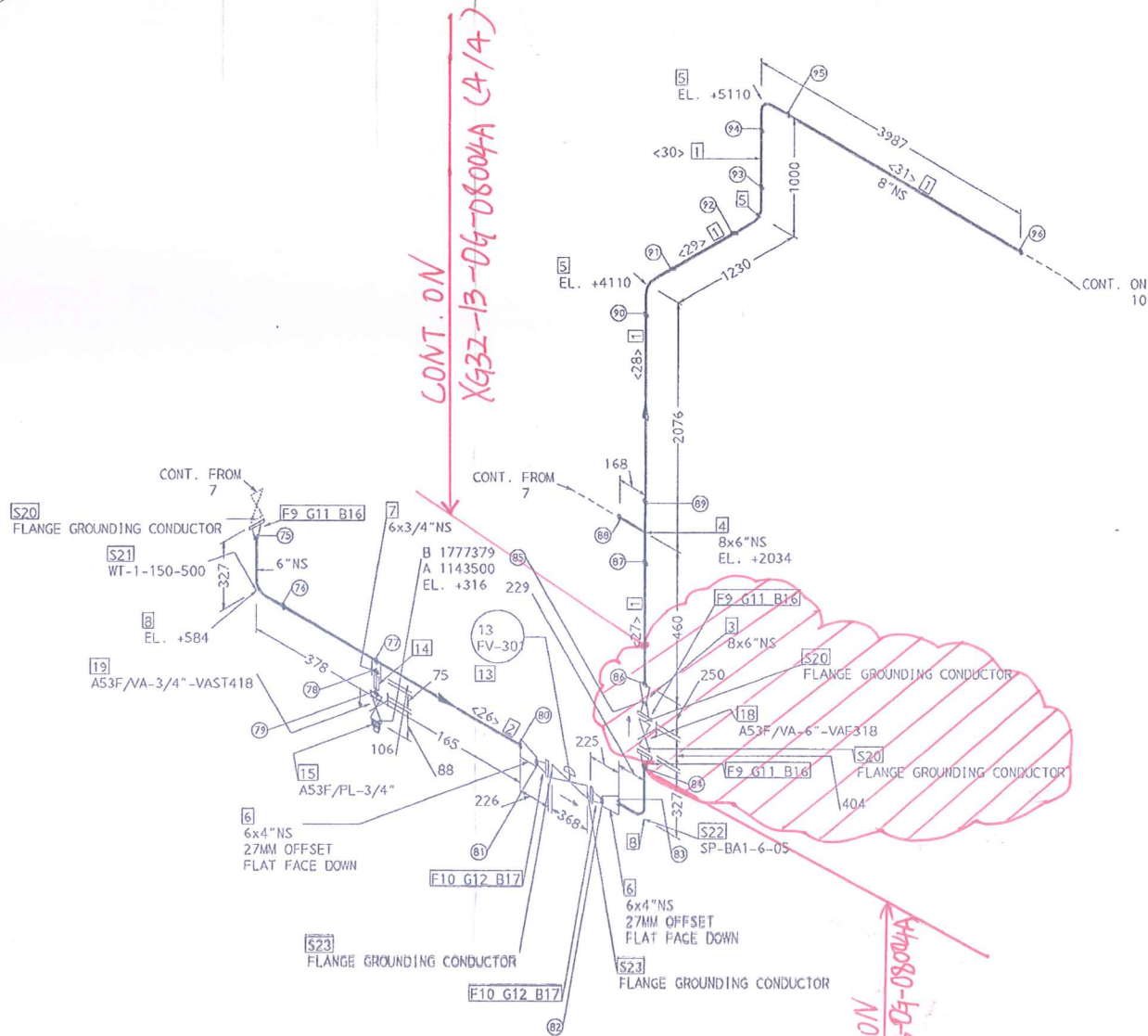
FABRICATION MATERIALS

PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
PIPE				
1	PIPE A106 GR.B SCH40 SMLS BE ASME B36.10M	8	A53F/P-8"-60	6.6M
2	PIPE A106 GR.B SCH40 SMLS BE ASME B36.10M	6	A53F/P-6"-40	0.4M
FITTINGS				
3	REDUCER CONC A234 GR.WPB SCH40/SCH40 SMLS BW ASME B16.9	8 x 6	A53F/RC-8"x6"	1
4	REDU TEE A234 GR.WPB SCH40/SCH40 SMLS BW ASME B16.9	8 x 6	A53F/TB-8"x6"	1
5	90 DEG. ELBOW LR A234 GR.WPB SCH40 SMLS BW ASME B16.9	8	A53F/EB-8"x90	3
6	REDUCER ECC A234 GR.WPB SCH40 SMLS BW ASME B16.9	6 x 4	A53F/RE-6"x4"	2
7	HALF COUPLING CL8000 SW A105 ASME B16.11	6 x 3/4	A53F/CHS-6"x3/4"	1
8	90 DEG. ELBOW LR A234 GR.WPB SCH40 SMLS BW ASME B16.9	6	A53F/EB-6"x90	2
FLANGES				
9	FLANGE CL300 RF WN A105 SCH40 BORE ASME B16.5	6	A53F/WFR-6"	3
10	FLANGE CL300 RF WN A105 SCH40 BORE ASME B16.5	4	A53F/WFR-4"	2
GASKETS				
11	GASKET CL300 RF 4.5mm 316SS SPIRAL WOUND FILLER FLEXIBLE GRAPHITE INNER RING 316SS OUTER RING LOW CS (G214ACM) ASME B16.20	6	A53F/GR-6"-G214ACM	3
12	GASKET CL300 RF 4.5mm 316SS SPIRAL WOUND FILLER FLEXIBLE GRAPHITE INNER RING 316SS OUTER RING LOW CS (G214ACM) ASME B16.20	4	A53F/GR-4"-G214ACM	2
INSTRUMENTS				
13	CONTROL VALVE CL300 RF 13 FV-301	4		1

ERECTION MATERIALS

PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
FITTINGS				
14	NIPPLE (L=75MM) FBE A106 GR.B SCH140 ASME B36.10M	3/4	A53F/NIP-3/4"x75LXPBE	1
15	PLUG A105 HEXAGONAL TYPE SCRD(M-NPT) ASME B16.11	3/4	A53F/PL-3/4"	1
BOLTS				
16	130 MM LONG STUD BOLT . M20 A193 GR.B7 W/HEX HEAD HEAVY NUT A194 GR.2H		A53F/BSF-6"-130	36
17	120 MM LONG STUD BOLT . M20 A193 GR.B7 W/HEX HEAD HEAVY NUT A194 GR.2H		A53F/BSF-4"-120	16
COMPONENTS				
18	GATE VALVE CL300 RF A216 GR.WCB BODY #8 TRIM FLEXIBLE WEDGE OS&Y BB ASME B16.10 API600 (VAF318)	6	A53F/VA-6"-VAF318	1
19	GATE VALVE CL800 SH/SCRD(NPT) A105 BODY #8 TRIM SOLID WEDGE OS&Y BB API402 BY WFR (VAST418)	3/4	A53F/VA-3/4"-VAST418	1
SUPPORTS				
20	F.G.C. (CL300) (FLANGE GROUNDING CONDUCTOR)	6	F6C/FGE-6"-CL300	3
21	PIPE SUPPORT (WT-1-150-500)	6	SUP/WT-1-6"	1
22	SPECIAL SUPPORT (SP-BA1-6-05)	6	SUP/BA1-6-6"	1
23	F.G.C. (CL300) (FLANGE GROUNDING CONDUCTOR)	4	F6C/FGE-4"-CL300	2

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* 依现场实际调整

FOR CONSTRUCTION

JULY, 14, 2011

△						OPR. PRESS.: 3.04 MPa(G)	OPR. TEMP.: 50 °C	CLASS: A53F	DWN. C.T.LEE	06/01/2011	REVIEWED	富台工程股份有限公司 FU-TAI ENGINEERING CO., LTD. 腾龙芳炆(漳州)80万吨/年对二甲苯工程 CSU/VDU 装置							
△						DES. PRESS.: 3.8 MPa(G)	DES. TEMP.: 80 °C	INSULATION: ---	DES.N. K.W.CHIANG	06/01/2011									
△						HYDRO TEST: WATER 5.7 MPa(G)	PWHT: NO	TRACING: ---	CHK. Y.C.CHO	06/01/2011									
△						PAINTING: PER SPEC.	STEAM OUT: YES	RT: 100%	APPR. A.F.WU	06/01/2011									
0	07/08/2011	FOR CONSTRUCTION	C.T.LEE	Y.C.CHO	A.F.WU							CONTRACT: C192502 FILE NO.: 13-P08004-B							
A	06/01/2011	FOR APPROVAL	C.T.LEE	Y.C.CHO	A.F.WU														
REV. NO.	DATE	REVISION DESCRIPTION	BY	CHK.	APPR.														
						WELDED	FIELD WELDED	BOCKET	THREAD	COUPLING	FIELD CONN.	SUPPORT	STEAM TRAC	INSULATION	DWG NO.: 192A DIA. NO.: 1208-008	CONTRACT: C192502 FILE NO.: 13-P08004-B	LINE NO.: 13-8"-P-08004-A53F	SHT. 8 OF 10	ISSUE 0

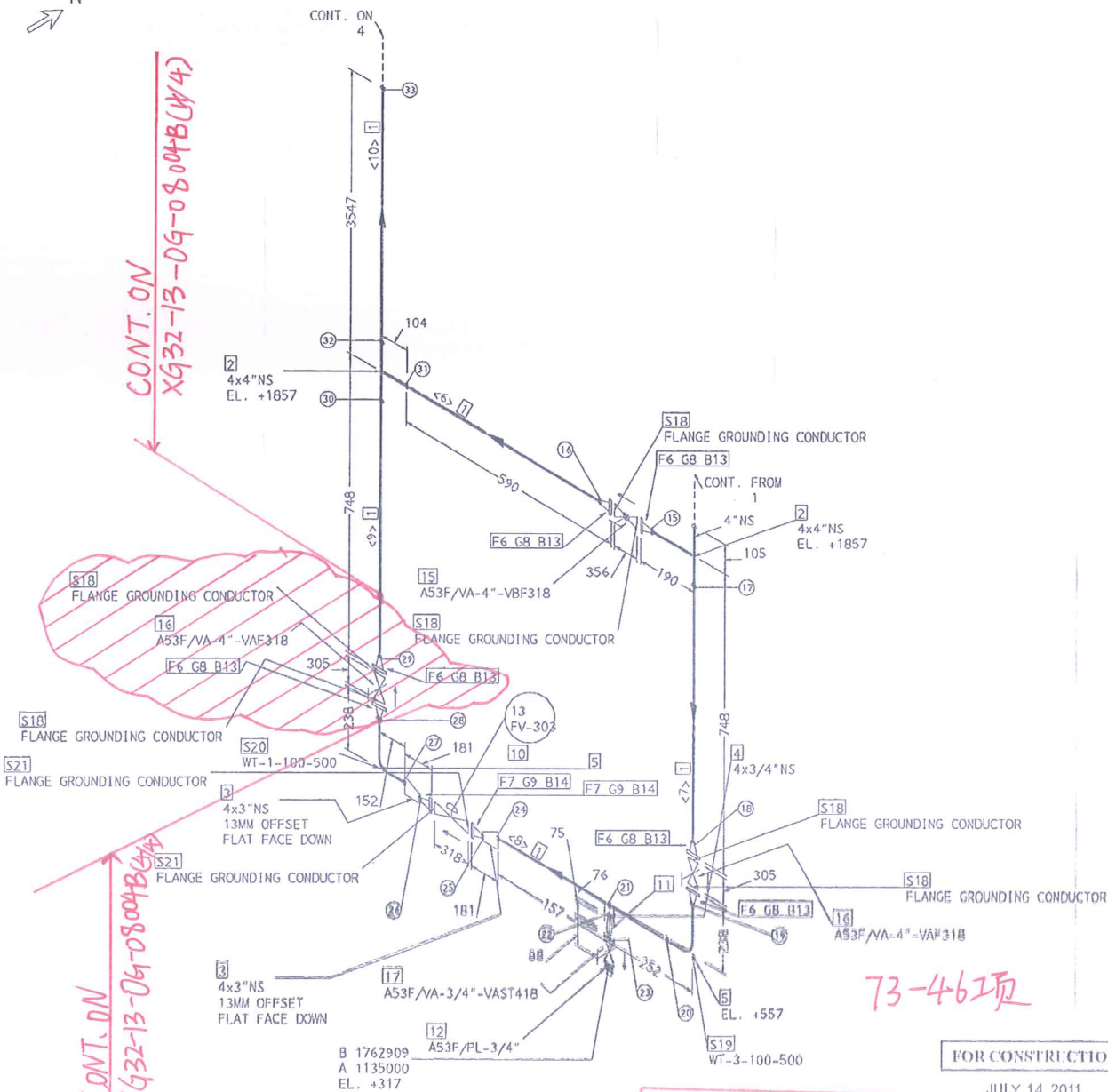
FABRICATION MATERIALS

PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
PIPE				
1	PIPE A106 GR.B SCH40 SMLS BE ASME B36.10M	4	A53F/P-4"-40	5.4M
FITTINGS				
2	TEE A234 GR.WPB SCH40 SMLS BW ASME B16.9	4 x 4	A53F/TB-4"	2
3	REDUCER ECC A234 GR.WPB SCH40 SMLS BW ASME B16.9	4 x 3	A53F/RE-4"x3"	2
4	HALF COUPLING CL6000 SW A105 ASME B16.11	4 x 3/4	A53F/CHS-4"x3/4"	1
5	90 DEG. ELBOW LR A234 GR.WPB SCH40 SMLS BW ASME B16.9	4	A53F/EB-4"x90	2
FLANGES				
6	FLANGE CL300 RF WN A105 SCH40 BORE ASME B16.5	4	A53F/WFR-4"	6
7	FLANGE CL300 RF WN A105 SCH40 BORE ASME B16.5	3	A53F/WFR-3"	2
GASKETS				
8	GASKET CL300 RF 4.5mm 316SS SPIRAL WOUND FILLER FLEXIBLE GRAPHITE INNER RING 316SS OUTER RING LOW CS (G214ACU) ASME B16.20	4	A53F/GR-4"-G214ACU	6
9	GASKET CL300 RF 4.5mm 316SS SPIRAL WOUND FILLER FLEXIBLE GRAPHITE INNER RING 316SS OUTER RING LOW CS (G214ACU) ASME B16.20	3	A53F/GR-3"-G214ACU	2
INSTRUMENTS				
10	CONTROL VALVE CL300 RF 13 FV-303	3		1

ERECTION MATERIALS

PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
FITTINGS				
11	NIPPLE (L=75MM) PBE A106 GR.B SCH160 ASME B36.10M	3/4	A53F/NIP-3/4"x75LXPBE	1
12	PLUG A105 HEXAGONAL TYPE SCRD(U-NPT) ASME B16.11	3/4	A53F/PL-3/4"	1
BOLTS				
13	120 MM LONG STUD BOLT . U20 A193 GR.B7 W/HEX HEAD HEAVY NUT A194 GR.2H		A53F/BSF-4"-120	40
14	110 MM LONG STUD BOLT . U20 A193 GR.B7 W/HEX HEAD HEAVY NUT A194 GR.2H		A53F/BSF-3"-110	16
COMPONENTS				
15	GLOBE VALVE CL300 RF A216 GR.WCB BODY #B TRIM LOOSE DISC OSKY BB ASME B16.10 API600 (VBF318)	4	A53F/VA-4"-VBF318	1
16	GATE VALVE CL300 RF A214 GR.WCB BODY #B TRIM FLEXIBLE WEDGE OSKY BB ASME B16.10 API600 (VAF318)	4	A53F/VA-4"-VAF318	2
17	GATE VALVE CL800 SW/SCRD(NPT) A105 BODY #B TRIM SOLID WEDGE OSKY BB API602 BY WFR (VAST418)	3/4	A53F/VA-3/4"-VAST418	1
SUPPORTS				
18	F.O.G. (CL300) (FLANGE GROUNDING CONDUCTOR)	4	FGG/FGC=4"-CL300	6
19	PIPE SUPPORT (WT-3-100-800)	4	BLU/WH-3-4"	1
20	PIPE SUPPORT (WT-1-100-500)	4	BLU/WH-1-4"	1
21	F.O.G. (CL300) (FLANGE GROUNDING CONDUCTOR)	3	FGC/FGC=3"-CL300	2

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FOR CONSTRUCTION

JULY, 14, 2011

"*" 依现场实际调整

△						OPR. PRESS.: 3.04 MPa(G)	OPR. TEMP.: 50 °C	CLASS: A53F	DWN. C.T.LEE	06/01/2011	REVIEWED	富台工程股份有限公司 FU-TAI ENGINEERING CO., LTD 腾龙芳烃(漳州)80万吨/年对二甲苯工程 CSU/VDU 装置							
△						DES. PRESS.: 3.8 MPa(G)	DES. TEMP.: 80 °C	INSULATION: ---	DESN. K.W.CHIANG	06/01/2011									
△						HYDRO TEST: WATER 5.7 MPa(G)	P/WHT: NO	TRACING: ---	CHK. Y.C.CHOU	06/01/2011									
△	07/08/2011	FOR CONSTRUCTION	C.T.LEE	Y.C.CHOU	A.F.WU	PAINTING: PER SPEC.	STEAM OUT: YES	RT: 100%	APPR. A.F.WU	06/01/2011									
△	06/01/2011	FOR APPROVAL	C.T.LEE	Y.C.CHOU	A.F.WU	WELDED	FIELD WELDED	SOCKET	THREAD	COUPLING	FIELD CONN.	SUPPORT	STEAM TRACE	INSULATION	DWG NO.: 132A,133A	CONTRACT: C192502	LINE NO.:	SHT.	ISSUE
REV. NO.	DATE	REVISION DESCRIPTION	BY	CHK.	APPR.										DIA. NO.: 1208-008/009	FILE NO.: 13-P08005-2	13-4"-P-08005-A53F	2 OF 5	0