



GENERAL NOTES:

- 1-SEE PROJECT LINE LIST FOR P&ID NUMBER
- 2- FFW (FIT FIELD WELD) 6" WILL BE ADDED TO PIPE LENGTH FOR FIELD FIT UP, ACCORDING TO CONTRACTOR CONSIDERATIONS.
- 3-THE ISOMETRIC MANUFACTURER SHALL DEFINE THE SPOOL DIMENSIONS IN ORDER TO MAKE EASY THE INSTALLATION
- 4-FOR THE FABRICATION OF THE ISOMETRIC, THE CONTRACTOR SHALL REDUCE THE PIPING AND FITTINGS WASTES AT MAXIMUM
- 5-FOR TYPICAL SUPPORTS SEE DOCUMENT DP07JI-FE41-M0001-TS001
- 6-FOR SPECIAL SUPPORT BOOK SEE DOCUMENT DP07JI-FE41-P7001-TD351
- 7-FOR PRESSURE, TEMPERATURE AND TEST PARAMETERS SEE DOCUMENT DP07JI-FE41-P7001-TL300

01	22/10/13	11/10/10	22/06/10	DATE	LINE No:	DIAM:	SPEC:
	TENOVA	IDOM	IDOM	BY	LS-400-M01-FE41.3730-PP	400MM	MO1
	F.T.M.	M.L.E.	S.V.L.	DRAWN	INSULATION:	TYPE: PP	THICKNESS: 30
	D.A.O.	G.M.M.	G.M.M.	CHECKED	HEAT TRACING:	STRESS RELIEF: YES	
	E.A.V.	F.G.D.	F.G.D.	APPROVED	TEMPERATURE °C	SEE NOTE 7	SEE NOTE 7
					PRESSURE BARG	SEE NOTE 7	SEE NOTE 7
					CONDITIONS	DESIGN	OPERATION
							TEST

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REVISED WHERE INDICATED

FOR ERECTION

FOR APPROVAL

REVISION

SIMBOLOGY:

===== INSULATION  
===== NON INSULATION  
----- COLUMN CENTER LINE

FABRICATION MATERIALS

NO	COMPONENT DESCRIPTION	N.S.	QTY
PIPE			
1	PIPE SMLS, SCH. STD, BE, C.S. ASTM A53 GR. B OR A106 GR. B	400	0.5
2	PIPE SMLS, SCH. STD, BE, C.S. ASTM A53 GR. B OR A106 GR. B	200	0.2
3	PIPE SMLS, SCH. 80, THD, C.S. ASTM A53 GR. B OR A106 GR. B	25	2.2
FITTINGS			
4	REDUCER CONC., SMLS, SCH. STD, BW, C.S. ASTM A234 GR. WPB	400 x 200	1
5	SOCKET, 3000#, C.S. ASTM A-105 FORGED A105 FORGED	400 x 25	1
6	HALF COUPLING, 6000#, SCR, C.S. ASTM A105 FORGED	400 x 15	2
7	ELBOW 90 DEG. LR, SMLS, SCH. STD, BW, C.S. ASTM A234 GR. WPB	400	1
8	ELBOW 45 DEG. LR, SMLS, SCH. STD, BW, C.S. ASTM A234 GR. WPB	400	1
9	HALF COUPLING, 6000#, SCR, C.S. ASTM A105 FORGED	25	1
10	ELBOW 90 DEG. 3000#, SCR, CS, ASTM A-105 FORGED	25	2
11	NIPPLE 100mm LG., SCH. 80, SMLS TBE, C.S. ASTM A53 GR. B OR A106 GR. B	15	2
FLANGES			
12	FLANGE SO, 150# RF, C.S. ASTM A105 FORGED	400	1
13	FLANGE SO, 150# RF, C.S. ASTM A105 FORGED	200	1

ERECTION MATERIALS

NO	COMPONENT DESCRIPTION	N.S.	QTY
FITTINGS			
14	PLUG HEXAGONAL HEAD, 3000# C.S. ASTM A105 FORGED	15	1
GASKETS			
15	GASKET 150# RF, NON ASBESTOS RING TYPE, 1.6 mm THK., GARLOCK STYLE NO. 3500, OR APPROVED EQUAL, ANSI B-16.21	200	1
BOLTS			
16	115 mm, STEEL ALLOY STUD BOLT, ASTM A193 GR. B7, HEAVY HEXAGONAL NUT, ASTM A194 GR. 2H	19	8
VALVES / IN-LINE ITEMS			
17	GATE VALVE, 600#, SCR, C.S. (CODE: B0A1)	25	1
18	GLOBE VALVE, 600#, SCR, FORGED (CODE: FDP1)	15	1
19	BALL VALVE, 400#, SCR, C.S., INTERNAL S.S. (CODE: UCAT)	15	1
INSTRUMENTS			
20	PRESSURE INDICATOR BY INSTRUMENTATION DEP. P1 130111	15	1

CUT PIPE LENGTH

ITEM CODE	PIECE NO	CUT LENGTH	N.S.
<1>	102	200	
<2>	496	400	
<3>	550	25	
<4>	483	25	
<5>	657	25	
<6>	544	25	



HYL Technologies S.A. de C.V.  
Av. Eugenio Cárdenas Garza 101  
Col. Cuauhtémoc San Nicolás de los Garza  
N.L. 64452 / Mexico



EZZ ROLLING MILL - EGYPT



ENERGIRON PROJECT  
1,900,000 TYP OF COLD DRI

SYSTEM:  
LS-400-M01-FE41.3730-PP

SCALE: NS	DWG No. LS-400-M01-FE41.3730-PP	SHEET No: 1 OF 2	REV.
DATE: 11/10/10			01