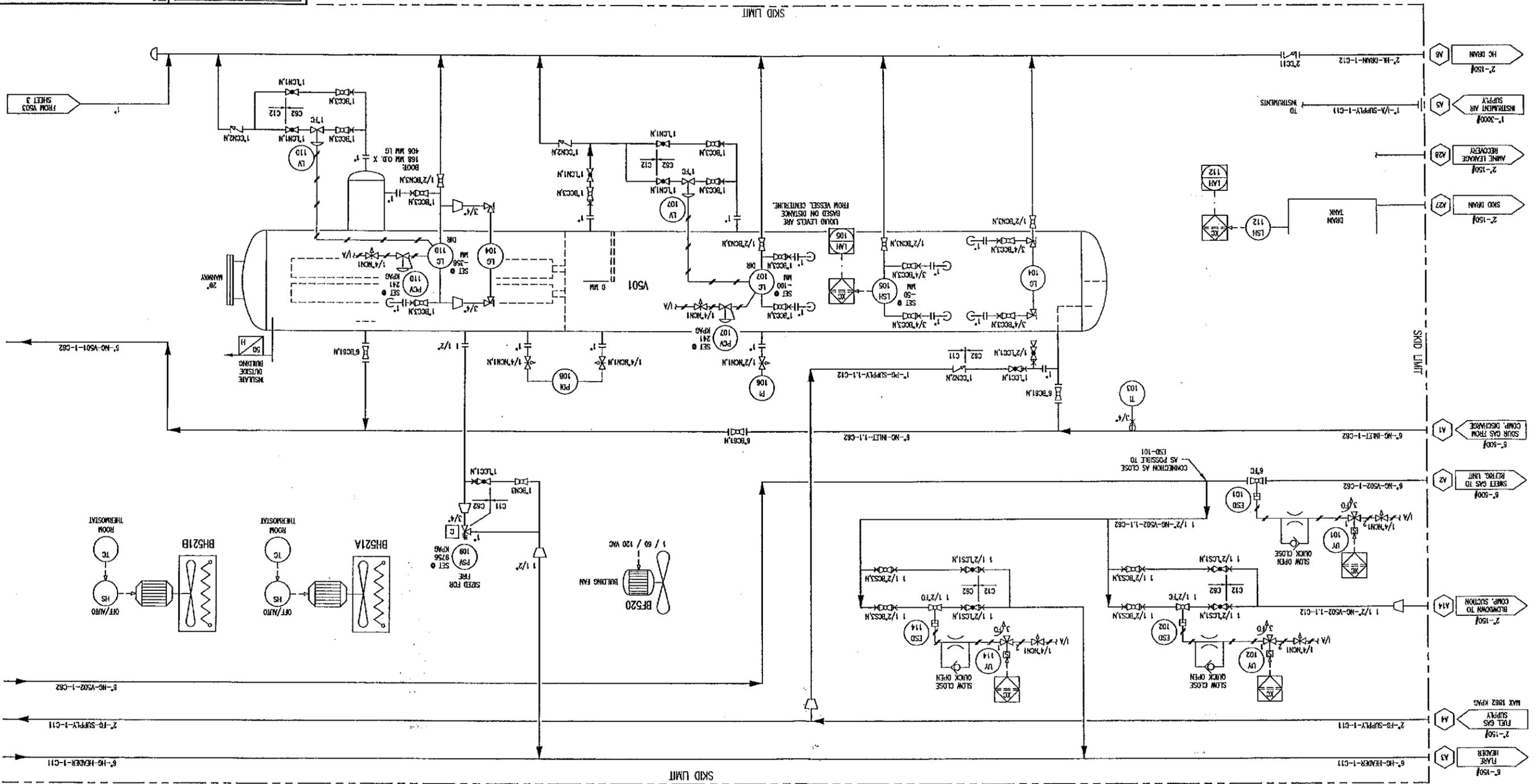


GENERAL NOTE: 1/16" TOLERANCE ON SKID EDGE CONNECTIONS

REV.	DESCRIPTION	DATE	BY	APP'R.
5	AS BUILT	JUN 01/06	RVA	SM
4	GENERAL REVISION	MAY 18/06	TM	SM
3	GENERAL REVISION	APR 10/06	TM	SM
2	GENERAL REVISION	APR 03/06	TM	SM
1	ISSUED FOR CONSTRUCTION	FEB 10/06	DAM	SM
B	ISSUED FOR INFORMATION	DEC 21/05	TM	KH
A	ISSUED FOR APPROVAL	NOV 17/05	TM	KH

TITLE: P & I FLOW DIAGRAM TOROMONT PROCESS SYSTEMS TOROMONT	ENGINEER STAMP NEXT AVAILABLE TAG NUMBER: 115	DRAWN BY: THOMAS MAH DATE: NOV. 17, 2005 SCALE: N/A APPR. BY: K. HEALE DATE: 12038101	CUST. PO NO.: 12038-101 SHEET NO.: 5 FROM: 15 MMSCFD 25-54 GPM CLEAR HILLS GAS PLANT LSD: 02-17-08-12 W6M
---	--	---	--



V501
 MILET FILTER CONDENSER
 SIZE: 762 MM Ø X 3048 MM S/S
 NAME: 9756 KPA @ 65 DEG.C
 MON: -29 DEG.C @ 9756 KPA
 C.V.: 32 MM
 SHELL MATERIAL: SA-516-70N
 HEAD MATERIAL: SA-516-70N
 ELEMENTS: (8) 8"Ø-30349
 WEIGHT: 3760 KGS.

BF520
 BUILDING FAN
 SIZE: 12" VENTURIN XP
 NAME: 9756 KPA @ 65 DEG.C
 MON: -29 DEG.C @ 9756 KPA
 C.V.: 32 MM
 SHELL MATERIAL: SA-516-70N
 HEAD MATERIAL: SA-516-70N
 ELEMENTS: (8) 8"Ø-30349
 WEIGHT: 3760 KGS.

BHS21A/B
 BUILDING HEATERS
 NAME: RAYTECK ELECTRIC
 MODEL: FM-48030-300-30
 POWER: 3 / 60 / 460 VAC / 30 KW
 FAN: 1 / 60 / 120 VAC
 TEMPERATURE CODE: 100 155 DEG.C
 HEAT OUTPUT: 102,500 BTU/HR (30 KW)
 ENCLOSURE: CL1, 0W 142, CR CP

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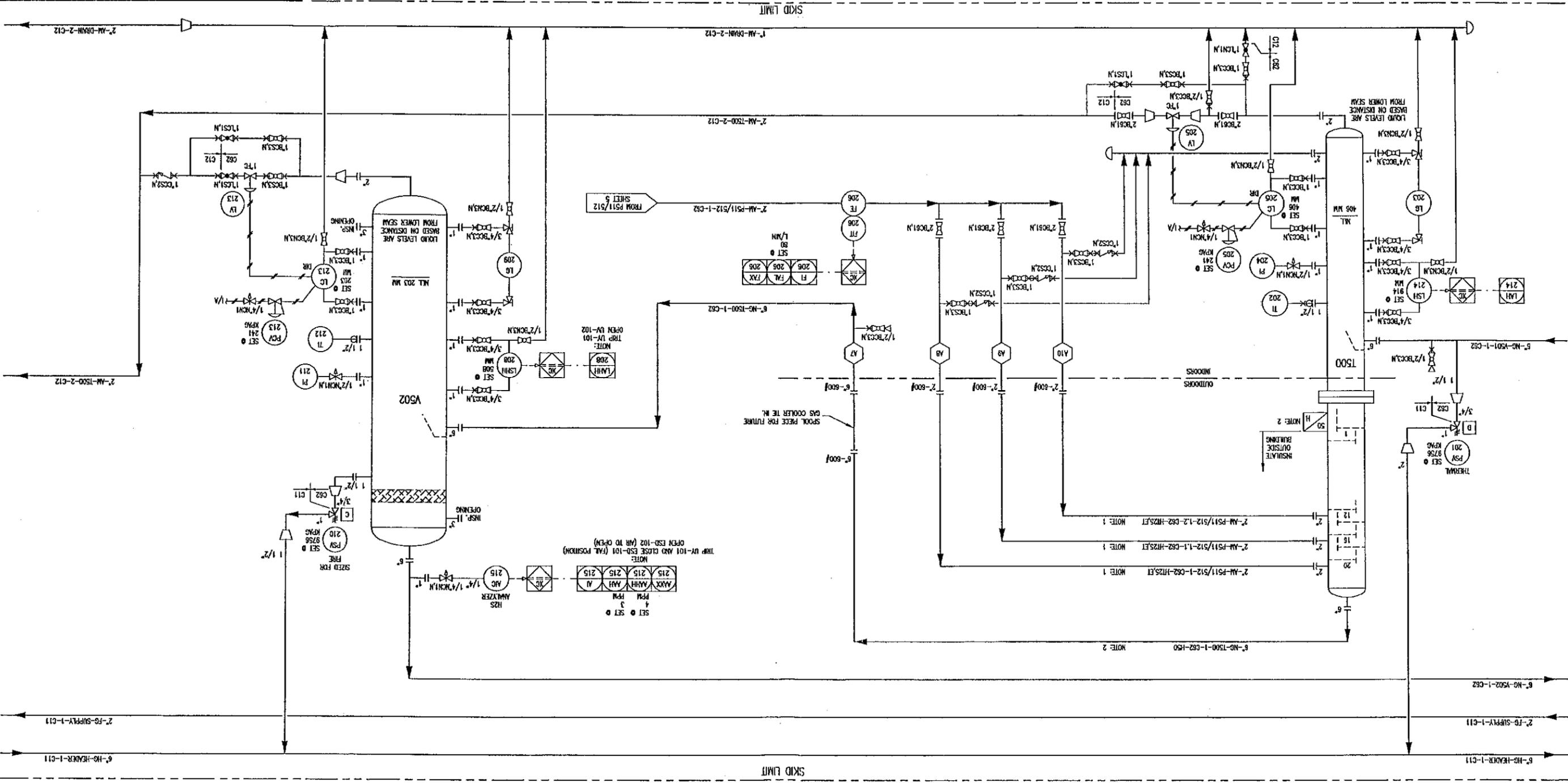
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NOTE 1:
INSULATE & HEAT TRACE CABLES THERMOMIX SELF REGULATING.
NOTE 2:
INSULATE OUTSIDE ONLY.

REV	DESCRIPTION	DATE	BY	APPR
5	AS BUILT	JUN 01/06	RAV	SM
4	GENERAL REVISION	MAY 18/06	TM	SM
3	GENERAL REVISION	APR 10/06	TM	SM
2	GENERAL REVISION	APR 3/06	TM	SM
1	ISSUED FOR CONSTRUCTION	FEB 10/06	DAM	SM
B	ISSUED FOR INFORMATION	DEC 21/05	TM	KH
A	ISSUED FOR APPROVAL	NOV 17/05	TM	KH

NEXT AVAILABLE TAG NUMBER: 214 ENGINEER STAMP 	DRAWN BY: THOMAS MAW DATE: NOV. 17, 2005 SCALE: N/A CHECKED BY: K. HEALE APPR. NO. 12038101 K. HEALE 12038101	PROJECT NO. 12038-101 SHEET NO. 2 REV. 5
--	---	--

ALTAGAS
15 MMSCFD 25-54 GPM
AMINE UNIT
CLEAR HILLS GAS PLANT
LSD: 02-17-08-12 WGM



V502
SHEET GAS SCRUBBER
SIZE: 762 MM ID X 1829 MM S/S
MANT: 9756 KPMG @ 65 DEG.C
MANT: -29 DEG.C @ 9756 KPMG
C.A. 3.2 MM
SHELL MATERIAL: SA-516-70N
HEAD MATERIAL: SA-516-70N
WEIGHT: 2160 KGS.

T500
AMINE CONTACTOR
SIZE: 762 MM OD X 1855 MM S/S
MANT: 9756 KPMG @ 65 DEG.C
MANT: -29 DEG.C @ 9756 KPMG
C.A. 3.2 MM
SHELL MATERIAL: SA-516-70N
HEAD MATERIAL: SA-516-70N
TRAYS: KOCH CONTACTOR TRAYS S.S.
WEIGHT: 12540 KGS.

P & I FLOW DIAGRAM

2"-AM-DRAW-2-C12

2"-AM-T500-2-C12

SKID LIMIT

SKID LIMIT

SKID LIMIT

SKID LIMIT

SKID LIMIT

6"-NO-1500-1-C82

2"-FG-SUPPLY-1-C11

6"-HG-HEADER-1-C11

6"-NO-V501-1-C82

2"-AM-PS11/512-1-C52

2"-AM

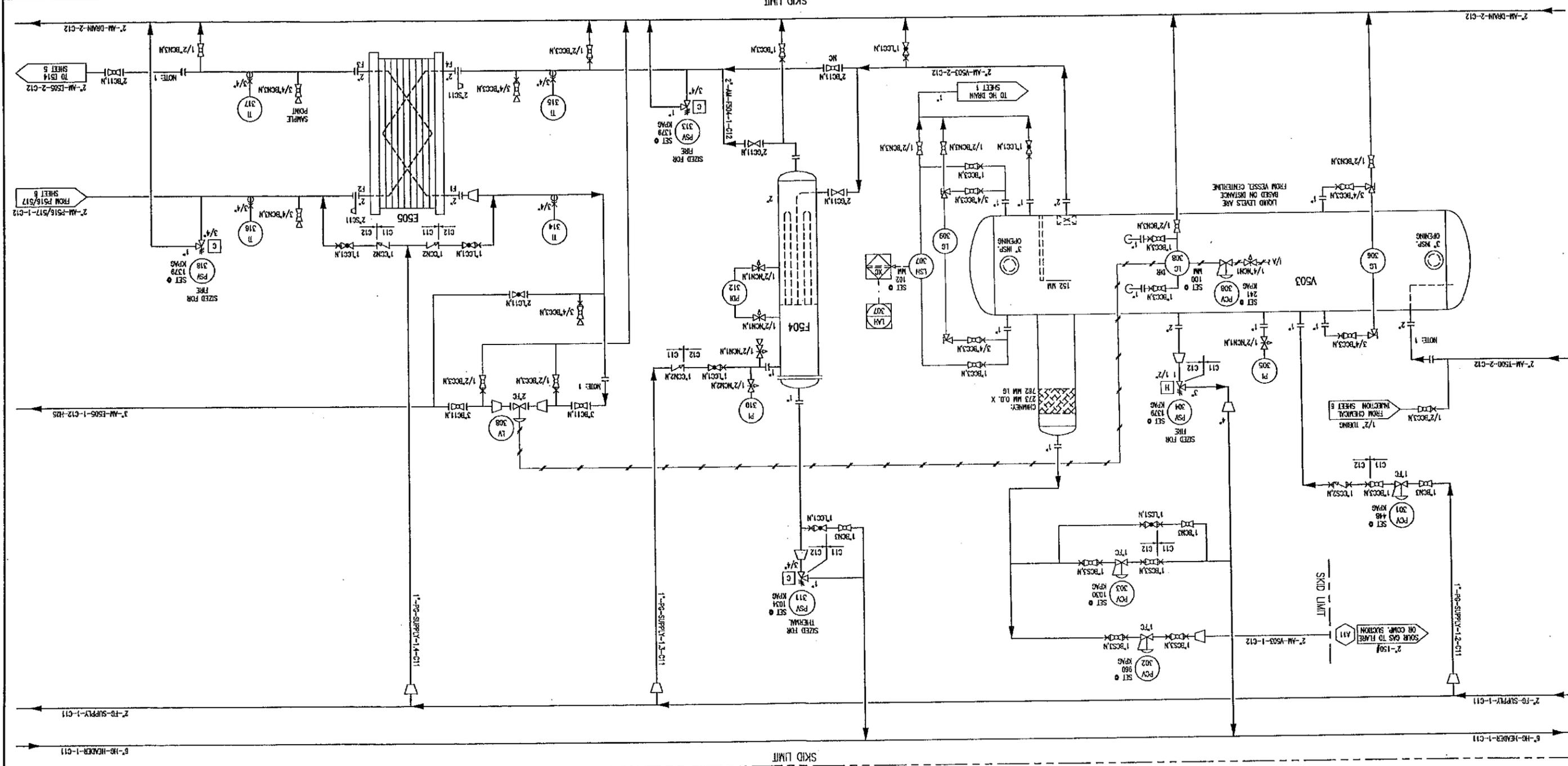
12038-101
 SHEET NO. 3
 REV. 5
 ALTAGAS
 15 MMSCFD 25-54 GPM
 AMINE UNIT
 CLEAR HILLS GAS PLANT
 LSPD: 02-17-08-12 WGM
 TOROMONT
 PROCESS SYSTEMS
 P & I FLOW DIAGRAM

TOROMONT
 PROJECT SYSTEMS
 ENGINEER STAMP
 NEXT AVAILABLE TAG NUMBER: 319

DRAWN BY: THOMAS MAH
 DATE: NOV. 17, 2005
 SCALE: N/A
 CHECKED BY: K. HEALE
 DATE: N/A
 APRR. NO. 12038101
 K. HEALE
 APRR. DATE: 02-17-08-12 WGM

REV.	DESCRIPTION	DATE	BY	APPR.
5	AS BUILT	JUN 01/06	RVA	SM
4	GENERAL REVISION	MAY 18/06	TM	SM
3	GENERAL REVISION	APR 10/06	TM	SM
2	GENERAL REVISION	APR 3/06	TM	SM
1	ISSUED FOR CONSTRUCTION	FEB 10/06	DAM	SM
B	ISSUED FOR INFORMATION	DEC 21/05	TM	KH
A	ISSUED FOR APPROVAL	NOV 17/05	TM	KH

NOTE 1
 RECOMMENDED CORROSION COUPON LOCATIONS



ES05 LEAN/RICH EXCHANGER
 MAKE: VEK
 NAME: 1379 KPGS @ 149 DEGC
 WMP: 1379 KPGS @ 1379 KPGS
 WMP: -29 DEGC @ 1379 KPGS
 PLATE MATERIAL: 316L SS
 PROCESS DUTY: 2028 KW
 WEIGHT: 709 KGS

F504 RICH AMINE FILTER
 NAME: F50-BQ-12
 SIZE: 219 MM OD X 833 MM S/S
 WMP: 1379 KPGS @ 93 DEGC
 WMP: -29 DEGC @ 1379 KPGS
 C.V.: 3.2 MM
 SHELL MATERIAL: SA-106-B
 HEAD MATERIAL: SA-234-WP9 BOTTOM / SA-516-70 TOP
 ELEMENTS: 3M-500 SERIES BMO
 WEIGHT: 200 KGS

V503 AMINE FLASH DRUM
 SIZE: 610 MM OD X 1829 MM S/S
 WMP: 1379 KPGS @ 93 DEGC
 WMP: -29 DEGC @ 1379 KPGS
 C.V.: 3.2 MM
 SHELL MATERIAL: SA-106B
 HEAD MATERIAL: SA-516-70N
 WEIGHT: 640 KGS

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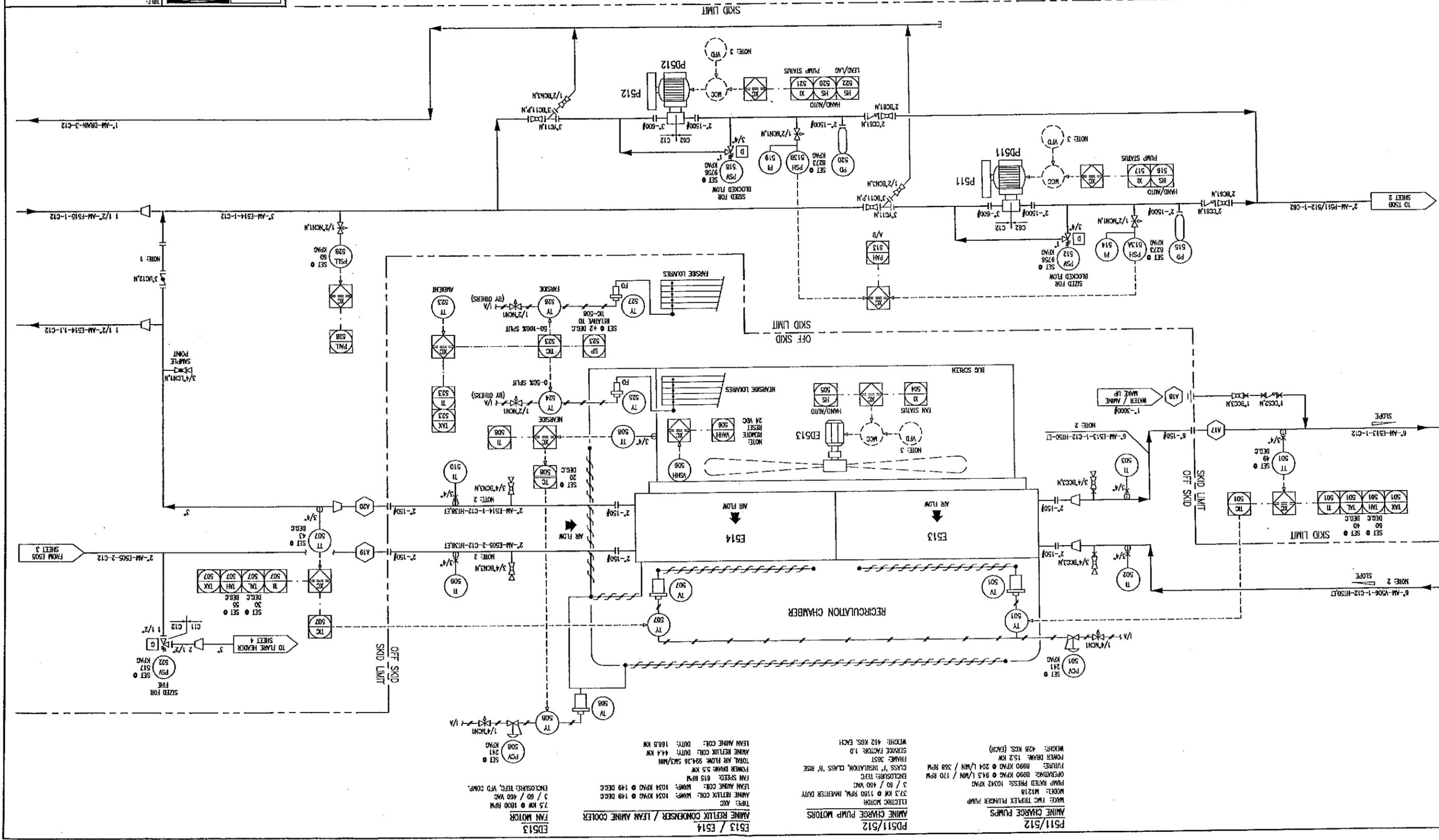
12038-101
 SHEET NO. 5
 15 MMSCFD 25-54 GPM
 AMINE UNIT
 CLEAR HILLS GAS PLANT
 LSD: 02-17-08-12 WSM

DRWN BY: THOMAS MAH
 DATE: NOV. 17, 2005
 SCALE: N/A
 APPR. BY: K. HEALE
 V.D. NO.: 12038101
 CRST. NO.:

ENGINEER STAMP
 TOROMONT
 TOROMONT PROCESS SYSTEMS

REV.	DESCRIPTION	DATE	BY	APPR.
5	AS BUILT	JUN 01/06	RVA	SM
4	GENERAL REVISION	MAY 18/06	TM	SM
3	GENERAL REVISION	APR 10/06	TM	SM
2	GENERAL REVISION	APR 03/06	TM	SM
1	ISSUED FOR CONSTRUCTION	FEB 10/06	DAM	SM
B	ISSUED FOR INFORMATION	DEC 21/05	TM	KH
A	ISSUED FOR APPROVAL	NOV 17/05	TM	KH

NOTE 1: RECOMMENDED CORROSION CONTROL LOCATIONS.
 NOTE 2: GENERAL REVISION
 INSULATE & HEAT TRACE OUTSIDE ONLY.
 NOTE 3: PUMP & LOCAL PUMP CONTROLS BY OTHERS.



ES13 / ES14
 AMINE REFLUX CONDENSER / LEAN AMINE COOLER
 TYPE: AXC
 AMINE REFLUX COIL: MWP: 1034 KPA @ 149 DEGC
 LEAN AMINE COIL: MWP: 1034 KPA @ 149 DEGC
 FAN MOTOR
 7.5 KW @ 1800 RPM
 3 / 60 / 460 VAC
 ENCLOSURE: TERC. VFD COMP.

PS11/512
 AMINE CHARGE PUMP MOTORS
 MAKE: FMC TRIPLEX PLUMBER PUMP
 MODEL: M1218
 PUMP RATED PRESS: 10342 KPA
 OPERATING: 8990 KPA @ 204 L/MIN / 368 RPM
 FLUIDS: 8990 KPA @ 204 L/MIN / 368 RPM
 CLASS 'F' INSULATION, CLASS 'B' RES
 FRAME: 305T
 SERVICE FACTOR: 1.0
 WEIGHT: 428 KGS. EACH

ED513
 FAN MOTOR
 7.5 KW @ 1800 RPM
 3 / 60 / 460 VAC
 ENCLOSURE: TERC. VFD COMP.

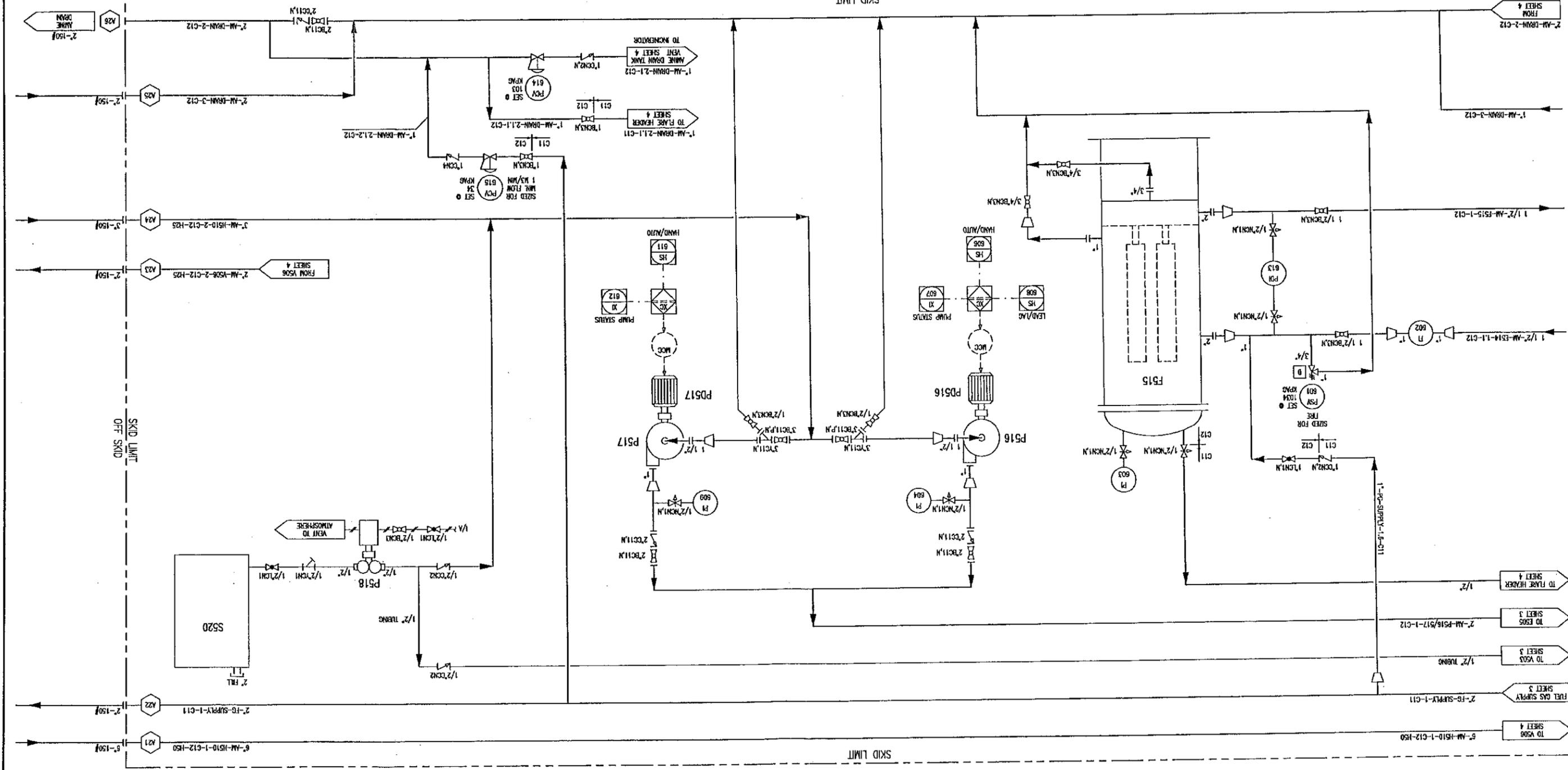
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REV.	DESCRIPTION	DATE	BY	APPR.
5	AS BUILT	JUN 01/08	RVA	SM
4	GENERAL REVISION	MAY 18/06	TM	SM
3	GENERAL REVISION	APR 10/06	TM	SM
2	GENERAL REVISION	APR 03/06	TM	SM
1	ISSUED FOR CONSTRUCTION	FEB 10/06	DAM	SM
B	ISSUED FOR INFORMATION	DEC 21/05	TM	KH
A	ISSUED FOR APPROVAL	NOV 17/05	TM	KH

NO. 12038-101	PROJECT NO. 12038101	APP. BY K. HEALE	DATE NOV. 17, 2005
SHEET NO. 6	SCALE N/A	CHKD. BY K. HEALE	DATE NOV. 17, 2005
REV. 5	DATE NOV. 17, 2005	DRWN. BY THOMAS MAH	DATE NOV. 17, 2005

ALTAGAS
15 MMSCFD 25-54 GPM
AMINE UNIT
CLEAR HILLS GAS PLANT
LSD: 02-17-08-12 WSM

FOR: TOROMONT PROCESS SYSTEMS
ENGINEER STAMP
NEXT AVAILABLE TAG NUMBER: 616



SS20
CHEMICAL INJECTION TANK
NAME: PS
MAKE: PS
SIZE: 250 LITERS
WEIGHT: 12 KGS.
MODEL: SERIES 51 - 1/4" PUMPER
NORMAL FLOW: 4.55 TO 9.1 L/DAY

PS16/PS17
AMINE BOOSTER PUMP MOTORS
ELECTRIC MOTOR
3.75 KW @ 3500 RPM
3 / 80 / 460 VAC
ENCLOSURE: IP
CLASS: F, INSULATION CLASS: B, RISE

FRAMES: 184T
SERVICE FACTOR: 1.15
WEIGHT: 40 KGS. EACH

FS15
AMINE CHARCOAM FILTER
MODEL: CDF30-80-24-2F-CS
SIZE: 762 MM OD X 2575 MM QW
MAMP: 1034 KMG @ 93 DEGC
MAMP: -29 DEGC @ 1034 KMG
C.V.: 3.2 MM
SHALL WATER: SA-518-70M
HEAD WATER: SA-618-70M
ELEMENTS: (8) J8-1700 CARBON CANISTERS
WEIGHT: 600 KGS.

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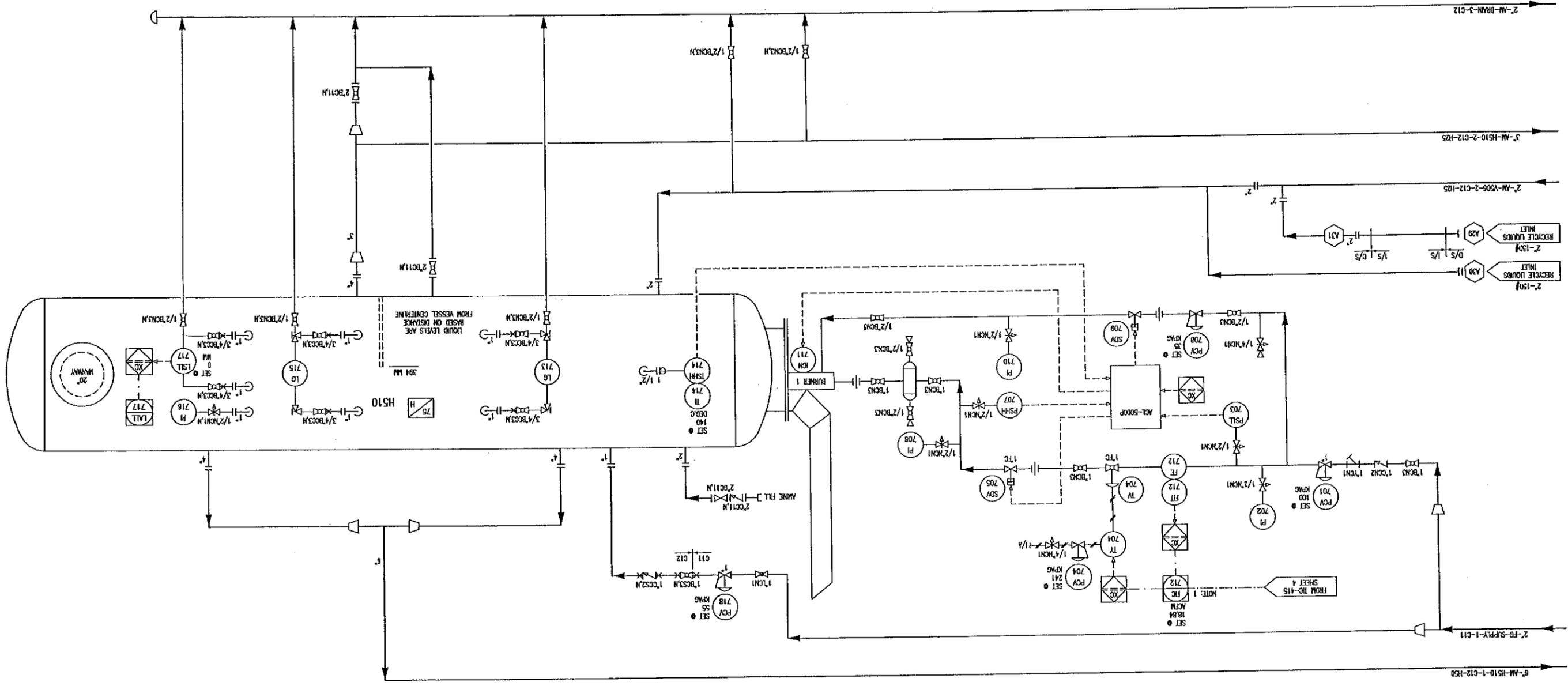
REV. 5	SHEET NO. 7	12038-101
ALTAGAS 15 MMSCFD 25-54 GPM MINE UNIT CLEAR HILLS GAS PLANT LSD: 02-17-08-12 W6M		
DATE: NOV. 17, 2005	DESIGN BY: THOMAS MAH	SCALE: N/A
APPROVED BY: K. HEALE	NO. NO. 12038101	CUST. PO. NO.



ENGINEER STAMP
 NEXT AVAILABLE TAG NUMBER: 719

REV.	DESCRIPTION	DATE	BY
5	AS BUILT	JUN 01/08	RVA SM
4	GENERAL REVISION	MAY 18/06	TM SM
3	GENERAL REVISION	APR 10/06	TM SM
2	GENERAL REVISION	APR 3/06	TM SM
1	ISSUED FOR CONSTRUCTION	FEB 19/06	DAM SM
B	ISSUED FOR INFORMATION	DEC 21/05	TM KH
A	ISSUED FOR APPROVAL	NOV 17/05	TM KH

NOTE: 1
 SETPOINT OF FC-712 IS TO BE ADJUSTED
 BASED ON THE OUTPUT OF TC-418.



H510
 MINE REBOILER
 SIZE: 1372 MM ID X 2315 MM S/S
 WGT: 517 KMG @ 149 DEG C
 WGT: -29 DEG C @ 517 KMG
 CA: 32 MM
 SHELL MATERIAL: SA-516-70N
 HEAD MATERIAL: SA-516-70N
 DWT: 381 KW
 BURNER: (1) 406 MM O.D. X 11582 MM U-TUBE
 STACK: 406 MM O.D.
 WEIGHT: 4300 KGS

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THE INFORMATION CONTAINED HEREIN IS THE CONFIDENTIAL PROPERTY OF TRIMARK PROCESS SYSTEMS AND IS NOT FOR REPRODUCTION AND NO PART THEREOF SHALL BE COPIED OR COMMUNICATED TO A THIRD PARTY WITHOUT AUTHORIZATION FROM TRIMARK PROCESS SYSTEMS.

LINE IDENTIFICATION
A-B-CCDD-E-FGH-IJK

A : NOMINAL LINE SIZE IN INCHES
B : TYPE
C : CARBON DIOXIDE
CW : COOLING WATER
CG : CHECK
G : GATE
FG : FUEL GAS
G : GLOBE
M : MANIFOLD
HG : HYDROCARBON GAS
HL : HYDROCARBON LIQUID
I/A : INSTRUMENT AIR
B : BRONZE
C : CARBON STEEL
L : LOW TEMP. CARBON STEEL
S : STAINLESS STEEL

D : END CONNECTIONS
B : BUTT WELD
C : SW BY NPT
3 : FLANGED 300#
6 : FLANGED 600#
9 : FLANGED 900#
15 : FLANGED 1500#
25 : FLANGED 2500#
S : SW (SOCKETWELD)
T : TUBE (SWAGLOCK)

E : EQUIPMENT TYPE / MODIFIER (IF REQUIRED)
V : PRODUCED WATER
A : ANGLE GLOBE
N : NEEDLE
P : PLUG
C : CARBON DIOXIDE
CW : COOLING WATER
CG : CHECK
G : GATE
FG : FUEL GAS
G : GLOBE
M : MANIFOLD
HG : HYDROCARBON GAS
HL : HYDROCARBON LIQUID
I/A : INSTRUMENT AIR
B : BRONZE
C : CARBON STEEL
L : LOW TEMP. CARBON STEEL
S : STAINLESS STEEL

F : MATERIAL GROUP
C : CARBON STEEL
L : LOW TEMPERATURE CARBON STEEL
S : STAINLESS STEEL
G : ANSI 16.5 FLANGE CLASS
0 : NON CODE
1 : 150#
3 : 300#
6 : 600#
9 : 900#
15 : 1500#
25 : 2500#
H : LINE MATERIAL SPECIFICATION REFERENCE
1 TO 9 SEQUENTIAL NUMBERS
I : INSULATION TYPE (IF REQUIRED)
C : COLD
H : HOT
HC : HOT/COLD
HT : HEAT TRACING
PP : PERSONAL PROTECTION
INSULATION THICKNESS (IF REQUIRED)
THICKNESS IN MILLIMETERS OR INCHES
K : TRACING (IF REQUIRED)
THICKNESS IN MILLIMETERS OR INCHES
ET : ELECTRICAL TRACING
GT : GLYCOL TRACING
ST : STEAM TRACING

EXAMPLE: 3'-AI-VS01-1-C62-H1XX-ET
3' - LINE SIZE
AI - MAIN
VS01 - PRESSURE VESSEL TAG NUMBER
1 - FIRST LINE FROM VESSEL
C62 - CARBON STEEL LINE
6 600# ANSI FLANGE RATING
2 LINE MATERIAL SPECIFICATION REFERENCE
HT - HEAT TRACING INSULATION
XX - THICKNESS IN MILLIMETERS OR INCHES
ET - ELECTRIC TRACING

VALVE IDENTIFICATION

A*BCDE,F
A : NOMINAL VALVE SIZE IN INCHES
B : TYPE
C : BALL
B : BALL
P : PLUG
N : NEEDLE
S : START-UP STRAINER
T : TEE STRAINER
G : GATE
FG : FUEL GAS
L : GLOBE
U : BUTTERFLY
Y : Y PATTERN STRAINER
M : MANIFOLD
G : GLYCOL
HG : HYDROCARBON GAS
HL : HYDROCARBON LIQUID
I/A : INSTRUMENT AIR
B : BRONZE
C : CARBON STEEL
L : LOW TEMP. CARBON STEEL
S : STAINLESS STEEL

VALVE TYPES

NEEDLE VALVE
BALL VALVE
PLUG VALVE
3-WAY VALVE
4-WAY VALVE
VALVE W/ BLEED
VALVE W/ PLUG
ANGLE GLOBE VALVE
BUTTERFLY VALVE
CHECK VALVE
GATE VALVE
GLOBE VALVE
THREADED
WELDED (BUT OR SOCKET)
BY OTHERS
SKID LIMIT
PNEUMATIC SIGNAL
ELECTRIC SIGNAL
CAPILLARY TUBING
INSTRUMENT SYSTEM LINK
(ELECTRONIC MEMORY SHARING)

VALVE CONNECTIONS

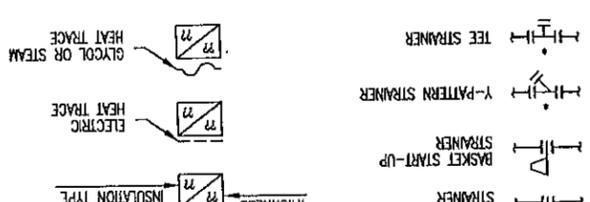
THREADED
WELDED (BUT OR SOCKET)
BY OTHERS
SKID LIMIT
PNEUMATIC SIGNAL
ELECTRIC SIGNAL
CAPILLARY TUBING
INSTRUMENT SYSTEM LINK
(ELECTRONIC MEMORY SHARING)

CONTROL VALVES

TWO-WAY SOLENOID VALVE
THREE-WAY SOLENOID VALVE
MOTOR ACTUATOR
HYDRAULIC/ PNEUMATIC OPERATED
DIAPHRAGM CONTROL VALVE
OUTLET PRESSURE REGULATOR (SELF-CONTAINED)
INLET PRESSURE REGULATOR (SELF-CONTAINED)
PRESSURE DIFFERENTIAL CONTROL VALVE (SELF-CONTAINED)

MISCELLANEOUS

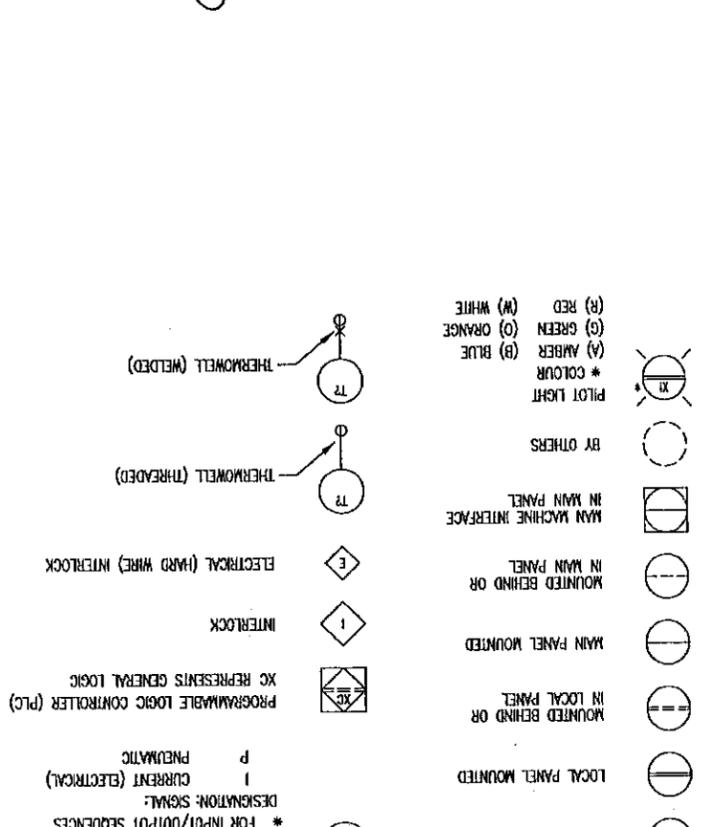
FLEXIBLE CONNECTION
CONTINUOUS LIQUID DRAINER OR STEAM TRAP
VORTEX BREAKER
DIAPHRAGM SEAL
SKID TIE-POINTS
OPEN DRAIN
INSULATION TYPE THICKNESS
PRESSURE SAFETY/ RELIEF VALVE
DESIGNATES API ORifice SIZE
RUPURE DISC FOR PRESSURE RELIEF
RUPURE DISC FOR VACUUM RELIEF



ANALYSIS	ALARM	SUCCESSING LETTERS	PRIMARY ELEMENT	INDICATOR	RECORDER	CONTROLLER	TRANS-MITTER	CONTROL	RELAY OR SELF-ACTUATED CONVERTOR
A	AF	AE	AI	AR	AC	AG	AT	AS	AV
B	BA	BE	BI	BR	BC	BG	BT	BS	BV
C	CA	CE	CI	CR	CC	CG	CT	CS	CV
D	DA	DE	DI	DR	DC	DG	DT	DS	DV
E	EA	EE	EI	ER	EC	EG	ET	ES	EV
F	FA	FE	FI	FR	FC	FG	FT	FS	FV
G	GA	GE	GI	GR	GC	GG	GT	GS	GV
H	HA	HE	HI	HR	HC	HG	HT	HS	HV
I	IA	IE	II	IR	IC	IG	IT	IS	IV
J	JA	JE	JI	JR	JC	JG	JT	JS	JV
K	KA	KE	KI	KR	KC	KG	KT	KS	KV
L	LA	LE	LI	LR	LC	LG	LT	LS	LV
M	MA	ME	MI	MR	MC	MG	MT	MS	MV
N	NA	NE	NI	NR	NC	NG	NT	NS	NV
O	OA	OE	OI	OR	OC	OG	OT	OS	OV
P	PA	PE	PI	PR	PC	PG	PT	PS	PV
Q	QA	QE	QI	QR	QC	QG	QT	QS	QV
R	RA	RE	RI	RR	RC	RG	RT	RS	RV
S	SA	SE	SI	SR	SC	SG	ST	SS	SV
T	TA	TE	TI	TR	TC	TG	TT	TS	TV
U	UA	UE	UI	UR	UC	UG	UT	US	UV
V	VA	VE	VI	VR	VC	VG	VT	VS	VV
W	WA	WE	WI	WR	WC	WG	WT	WS	WV
X	XA	XE	XI	XR	XC	XG	XT	XS	XV
Y	YA	YE	YI	YR	YC	YG	YT	YS	YV
Z	ZA	ZE	ZI	ZR	ZC	ZG	ZT	ZS	ZV

INSTRUMENTS

LOCAL MOUNTED
LOCAL PANEL MOUNTED
MOUNTED BEHIND OR IN LOCAL PANEL
MOUNTED BEHIND OR IN MAIN PANEL
MOUNTED BEHIND OR IN MAIN PANEL
BY OTHERS
PILOT LIGHT
* COLOUR
(A) AMBER (O) ORANGE (W) WHITE
(R) RED
(B) BLUE
THERMOWELL (WELDED)
THERMOWELL (THREADED)
ELECTRICAL (HARD WIRE) INTERLOCK
INTERLOCK
PROGRAMMABLE LOGIC CONTROLLER (PLC)
XC REPRESENTS GENERAL LOGIC
RELAY OR CONVERTER
DESIGNATION: SIGNAL
I CURRENT (ELECTRICAL)
P PNEUMATIC

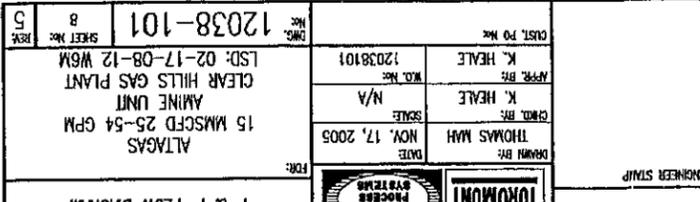


REV.	DESCRIPTION	DATE	BY	APPR.
5	AS BUILT	JUN 01/08	RVA	SM
4	GENERAL REVISION	MAY 18/08	TJM	SM
3	GENERAL REVISION	APR 10/08	TJM	SM
2	GENERAL REVISION	APR 03/08	TJM	SM
1	ISSUED FOR CONSTRUCTION	FEB 10/08	DMM	SM
B	ISSUED FOR INFORMATION	DEC 21/05	TJM	KH
A	ISSUED FOR APPROVAL	NOV 17/05	TJM	KH

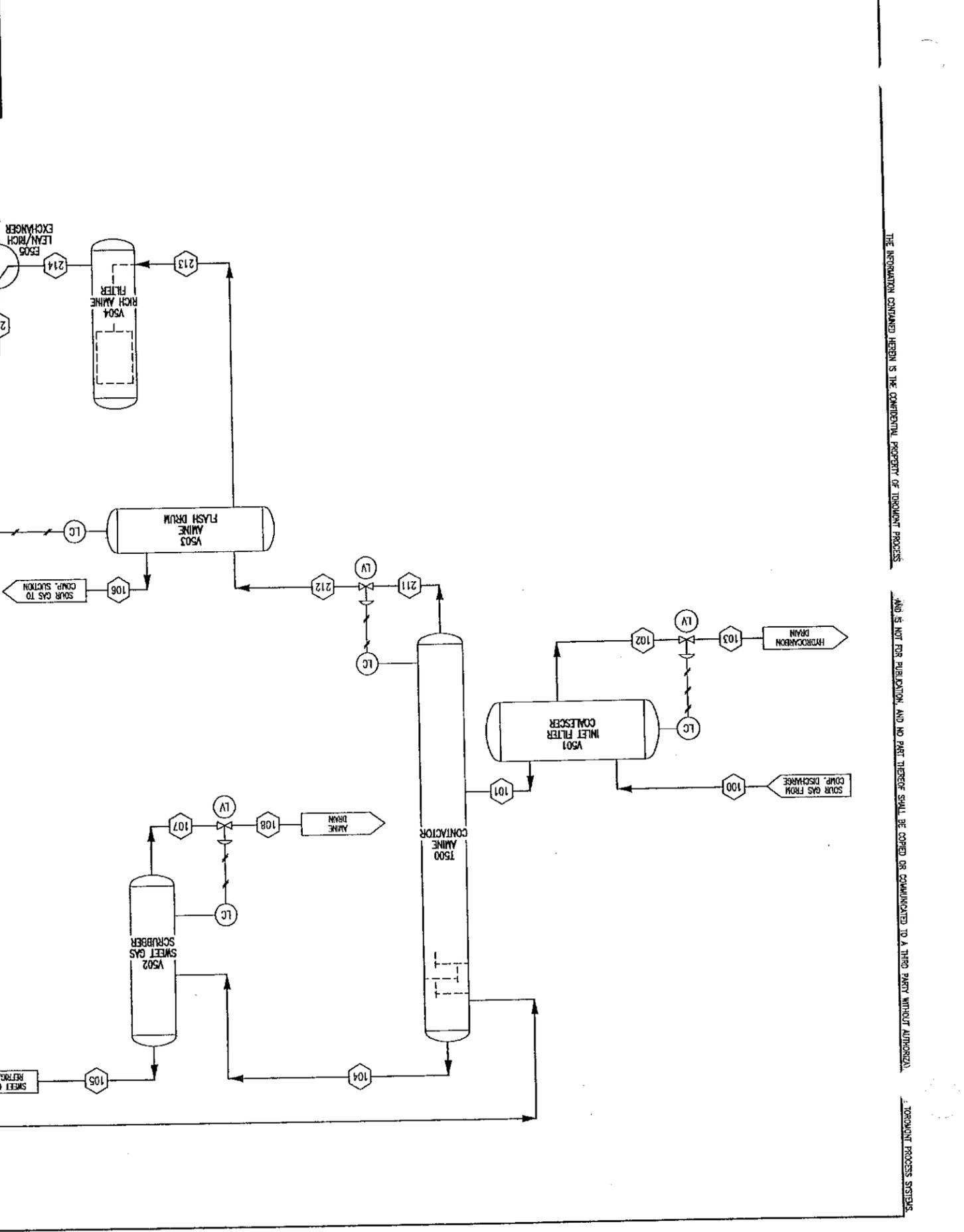
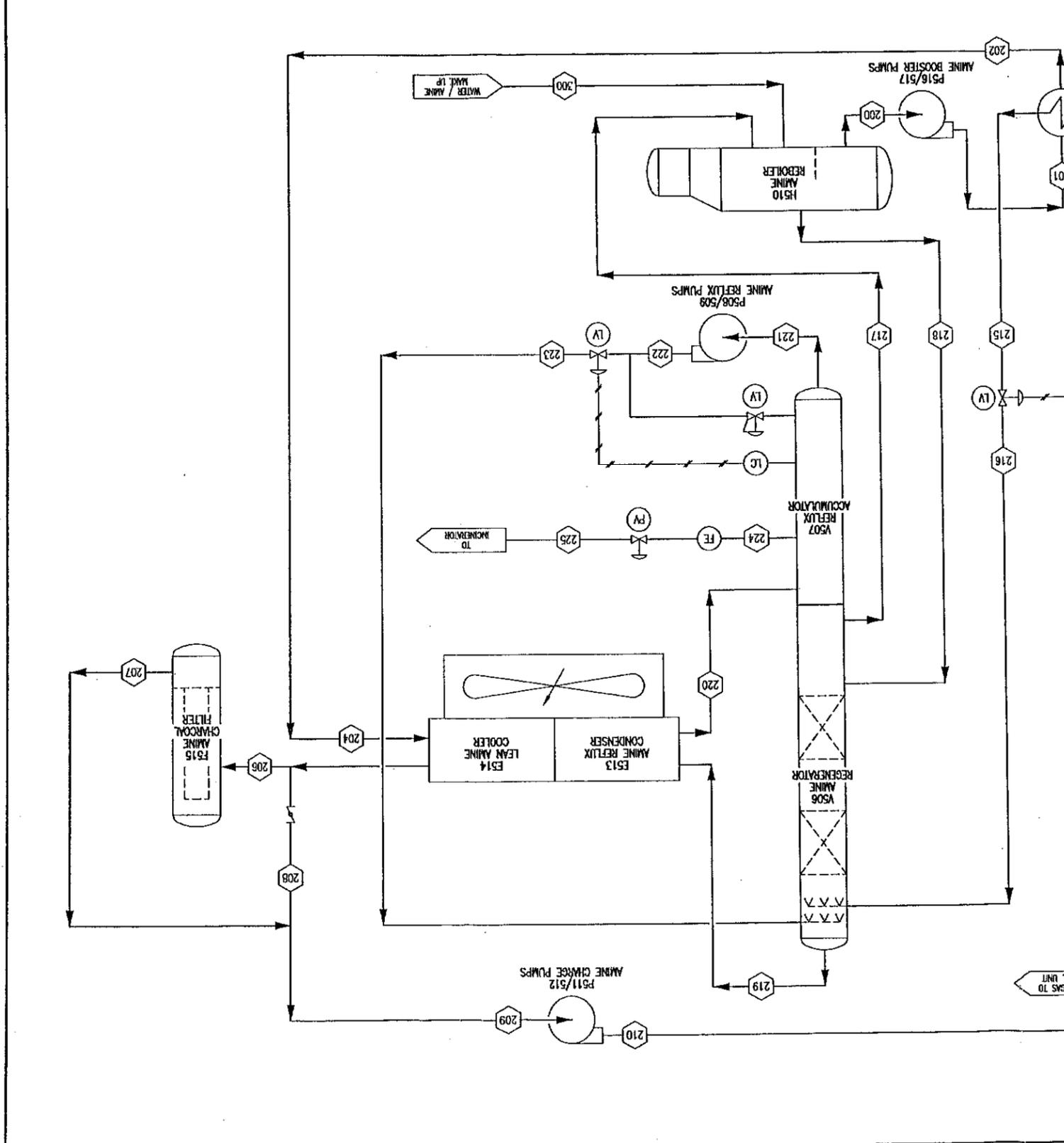
ABBREVIATIONS	DESCRIPTION
AUT	AUTOMATIC OUTPUT
CA	CORROSION ALLOWANCE
M3	CUBIC METERS
MAY	MAXIMUM
MAMP	MAXIMUM ALLOWABLE WORKING PRESSURE
MCC	MOTOR CONTROL CENTER
DEGC	DEGREES CELSIUS
DEGF	DEGREES FARENHEIT
DIR	DIRECT ACTING
MIN	MINIMUM
MM	MILLIMETER
Δ	DELTA (DIFFERENTIAL)
MOUT	MANUAL OUTPUT
MS	MOTOR STARTER
NC	NORMALLY CLOSED
NL	NORMAL LIQUID LEVEL
NO	NORMALLY OPEN
NPT	NATIONAL PIPE THREAD
OPC	OPERATOR INTERFACE COMPUTER
O.D.	OUTSIDE DIAMETER
PH	PUSH BUTTON
PSIA	POUNDS / SQUARE INCH ABSOLUTE
PSIG	POUNDS / SQUARE INCH GAUGE
PLC	PROGRAMMABLE LOGIC CONTROLLER
REV	REVERSE ACTING
I/G	INSTRUMENT GAS
I/O	INPUT / OUTPUT
I/A	INSTRUMENT AIR
KGS	KILOGRAMS
KPA	KILOPASCAL ABSOLUTE
KPAD	KILOPASCAL DIFFERENTIAL
KPA	KILOPASCAL GAUGE
KW	KILOWATTS
LC	LOCKED CLOSED
LO	LOCKED OPEN
LP	LOCKED IN POSITION
V/H	VENT HEADER
TS/IS	TUBESHEET TO TUBESHEET
T/L	TUBE LENGTH
W/M	WEIGHT OR FORCE
WT	WEIGHT
W/C	WEIGHT
WRC	WEIGHT
WT	WEIGHT
XS	EXCESSIVE
XA	EXCESSIVE
XV	EXCESSIVE
ZV	ZONAL VALVE

DATE	BY	APPR.	DESCRIPTION
NOV 17, 2008 <td>THOMAS MAH <td>SM <td>DESIGN</td> </td></td>	THOMAS MAH <td>SM <td>DESIGN</td> </td>	SM <td>DESIGN</td>	DESIGN
N/A <td>K. HEALE <td>SM <td>DESIGN</td> </td></td>	K. HEALE <td>SM <td>DESIGN</td> </td>	SM <td>DESIGN</td>	DESIGN
12038101 <td>K. HEALE <td>SM <td>DESIGN</td> </td></td>	K. HEALE <td>SM <td>DESIGN</td> </td>	SM <td>DESIGN</td>	DESIGN

ATLAGAS
15 MMSCFD 25-54 GPM
AMINE UNIT
CLEAR HILLS GAS PLANT
LSD: 02-17-08-12 W6M
SHEET NO. 101
12038-101



REV.	B	ISSUED WITH PROJECT MANUAL	JUN 13/06	CS	KH	
	A	ISSUED FOR APPROVAL	NOV 4/05	TM		
DESCRIPTION	PERMIT TO PRACTICE STAMP					
DATE	BY	APPR.	ENGINEER STAMP			
NOV 4, 2005	THOMAS MAH		ENGINEER STAMP			
NOV 4, 2005	THOMAS MAH		ENGINEER STAMP			
SCALE	N/A		ENGINEER STAMP			
W.D. NO.	12038001		ENGINEER STAMP			
APPR. BY	K. HEALE		ENGINEER STAMP			
DRAWN BY	THOMAS MAH		ENGINEER STAMP			
DATE	NOV 4, 2005		ENGINEER STAMP			
PROJECT NO.	12038-001		ENGINEER STAMP			
SHEET NO.	1		ENGINEER STAMP			
REV.	B		ENGINEER STAMP			

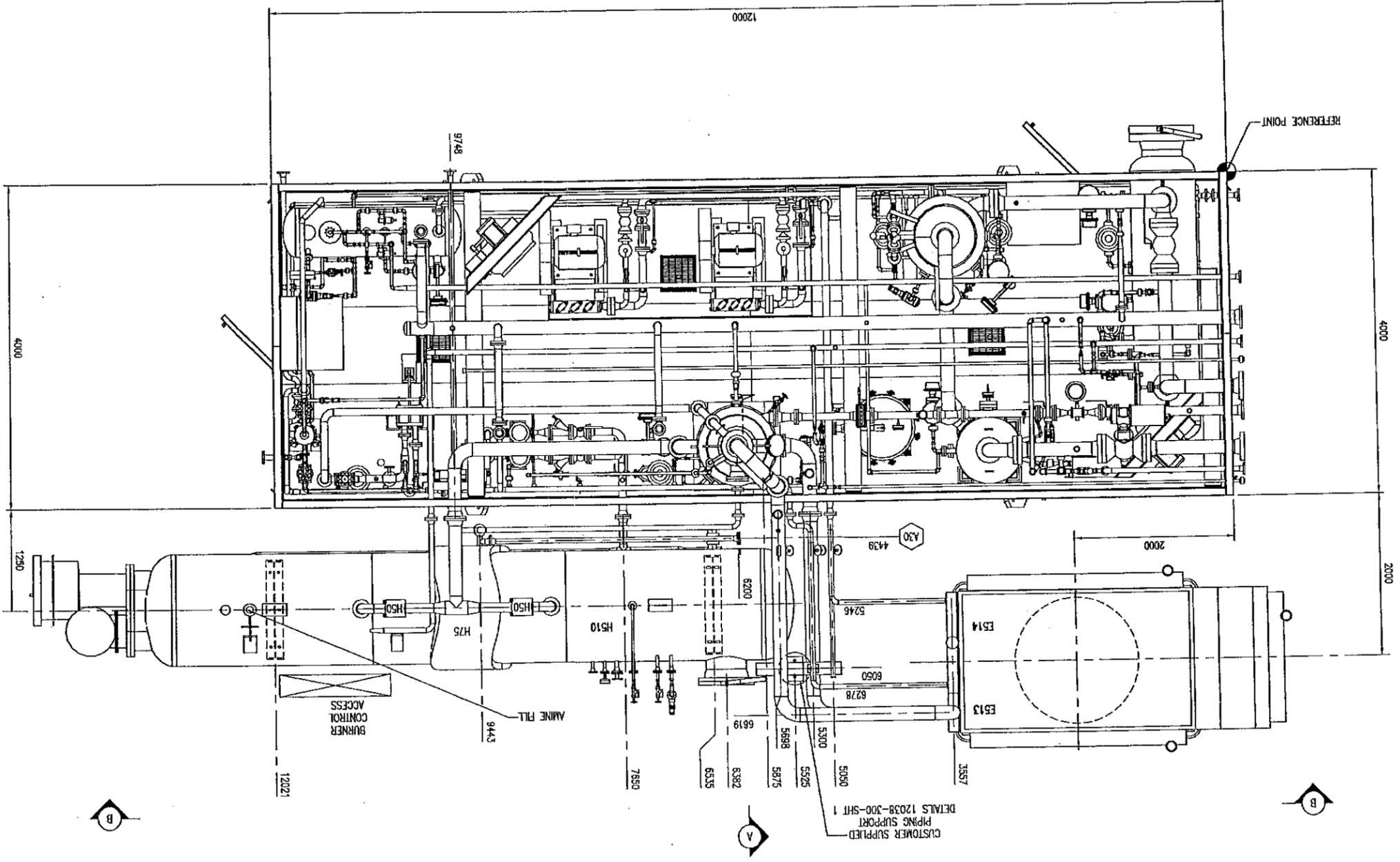


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REV.	DESCRIPTION	DATE	BY	APPR.
A	ISSUED FOR INFORMATION	FEB 21/06	DAM	SM
B	TAG CHANGES AND GENERAL REVISIONS	APR 6/06	DAM	SM
C	ALTERED REBOILER / CUSTOMER REVISIONS	APR 18/06	DAM	SM
D	ISSUED WITH PROJECT MANUAL	JUN 01/06	CS	SM

SM

PERMIT TO PRACTICE STAMP

ENGINEER STAMP

TITLES	
GENERAL ARRANGEMENT	
TOROMONT PROCESS SYSTEMS	
DATE: JAN 05, 2006	DRAWN BY: D. MOFFAT
SCALE: 1 : 30	CHKD. BY: K. HEALE
W.D. NO: 12038200	APPR. BY: K. HEALE
CUST. PO NO: 12038-200	SHEET NO: 1
REV. D	

REV.	DESCRIPTION	DATE	BY	APP'R.
D	ISSUED WITH PROJECT MANUAL	JUN 01/06	GS	SM
C	ALTERED REBOILER / CUSTOMER REVISIONS	APR 18/06	DAM	SM
B	TAG CHANGES AND GENERAL REVISIONS	APR 06/06	DAM	SM
A	ISSUED FOR INFORMATION	FEB 21/06	DAM	SM

PERMIT TO PRACTICE STAMP
ENGINEER STAMP

DRWING NO. 12038200
APP'R. BR. K. HEALE
SCALE: N.T.S.
DATE: JAN 06, 2006
DRAWING BR. D. MOFFAT

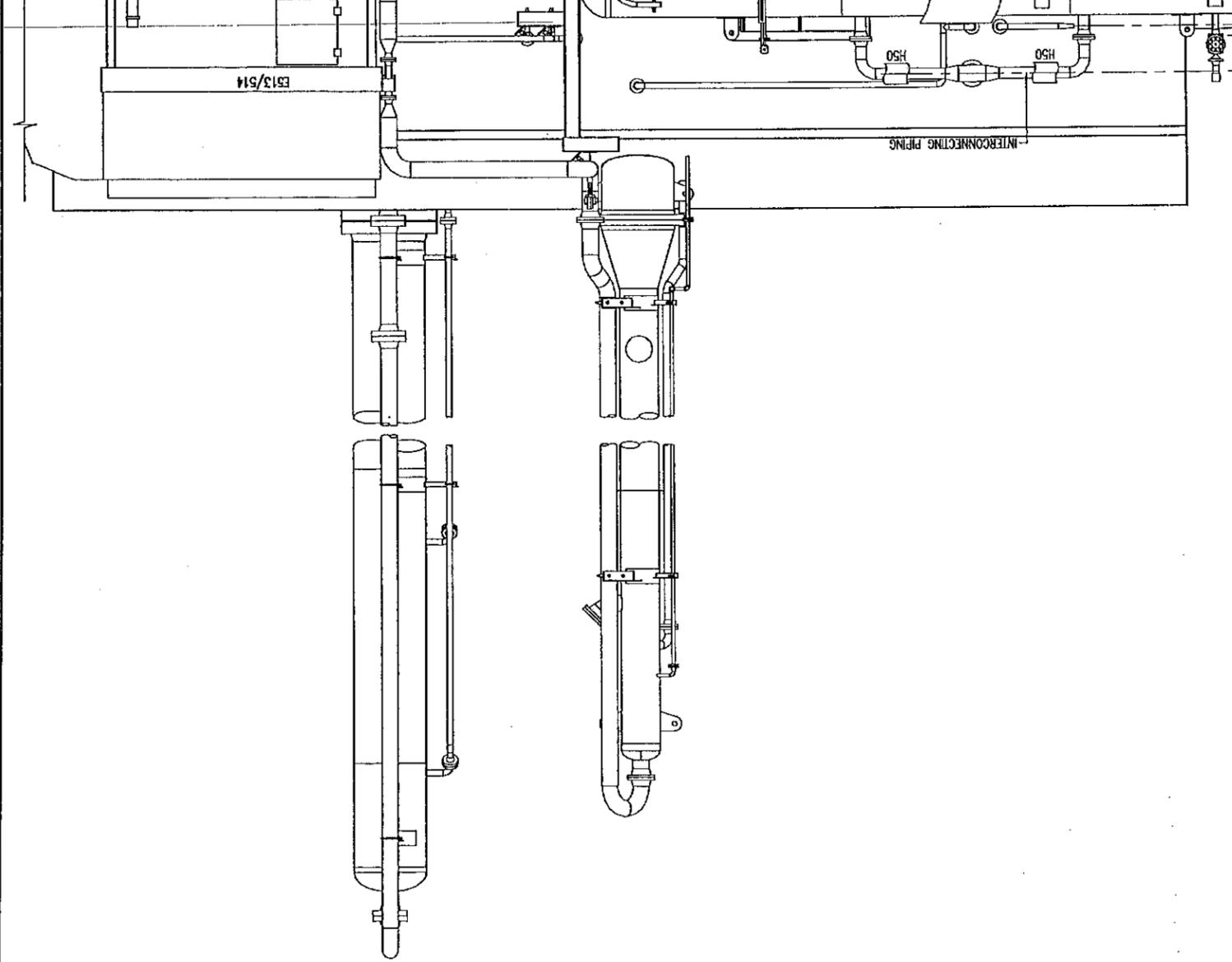
PROJECT NO. 12038-200
SHEET NO. 2
REV. D

ALTAGAS 15 MASCFD 25-54 GPM AMINE UNIT

SECTION VIEWS

TOROMONT PROCESS SYSTEMS

VIEW B-B



REV.	DESCRIPTION	DATE	BY	APP'R.
D	ISSUED WITH PROJECT MANUAL	JUN 01/06	GS	SM
C	ALTERED REBOILER / CUSTOMER REVISIONS	APR 18/06	DAM	SM
B	TAG CHANGES AND GENERAL REVISIONS	APR 06/06	DAM	SM
A	ISSUED FOR INFORMATION	FEB 21/06	DAM	SM

PERMIT TO PRACTICE STAMP
ENGINEER STAMP

DRWING NO. 12038200
APP'R. BR. K. HEALE
SCALE: N.T.S.
DATE: JAN 06, 2006
DRAWING BR. D. MOFFAT

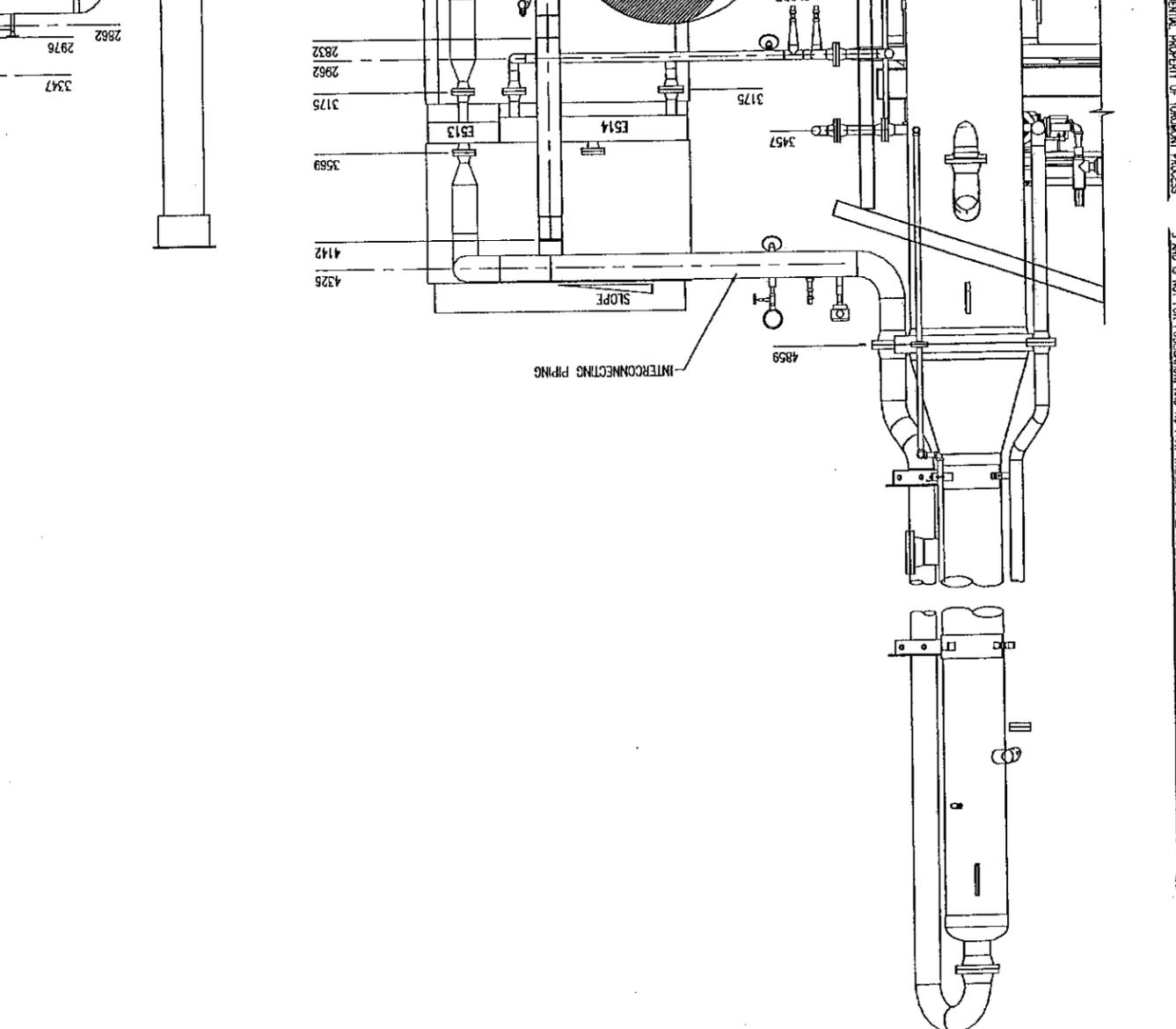
PROJECT NO. 12038-200
SHEET NO. 2
REV. D

ALTAGAS 15 MASCFD 25-54 GPM AMINE UNIT

SECTION VIEWS

TOROMONT PROCESS SYSTEMS

VIEW A-A

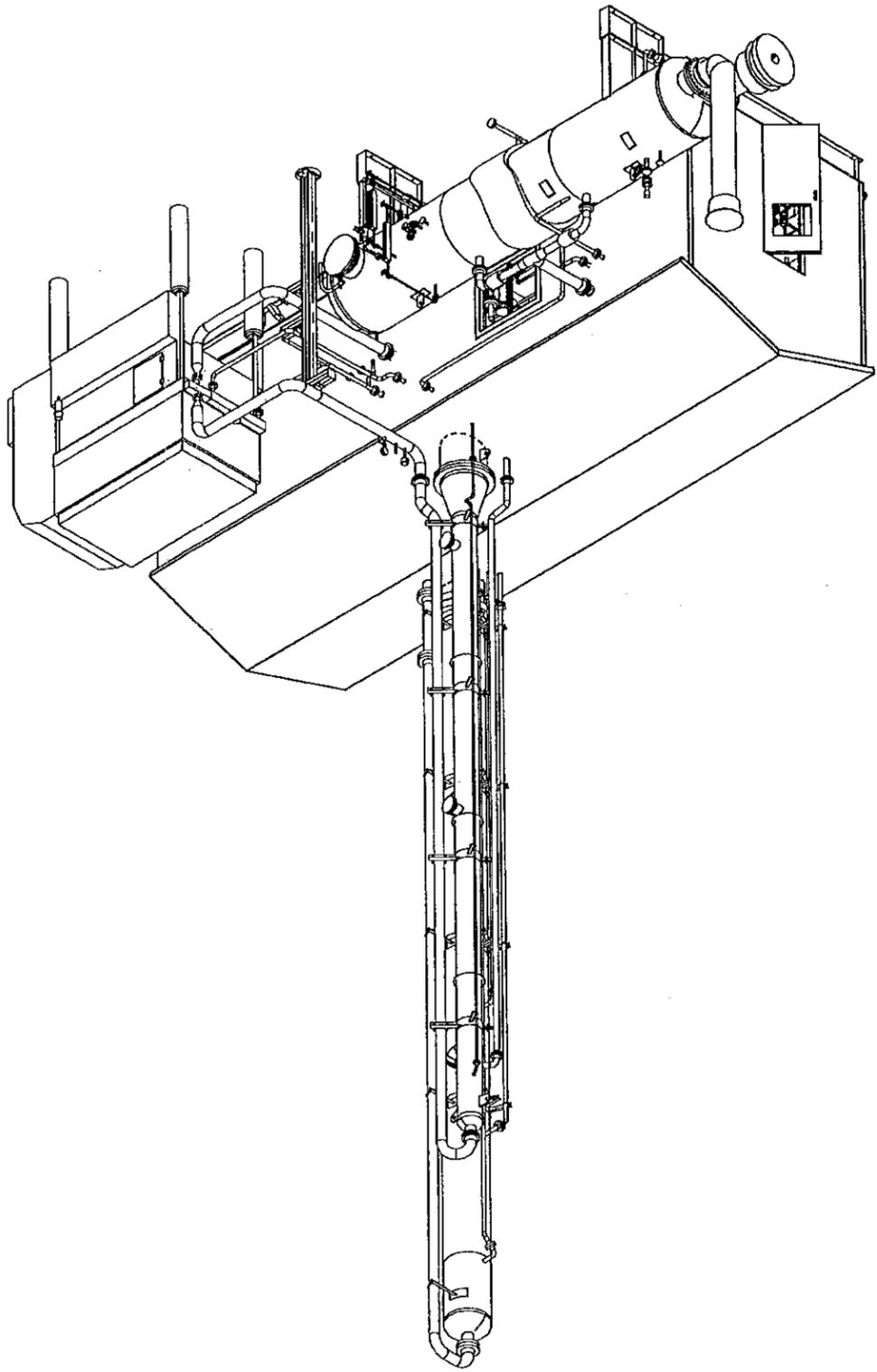
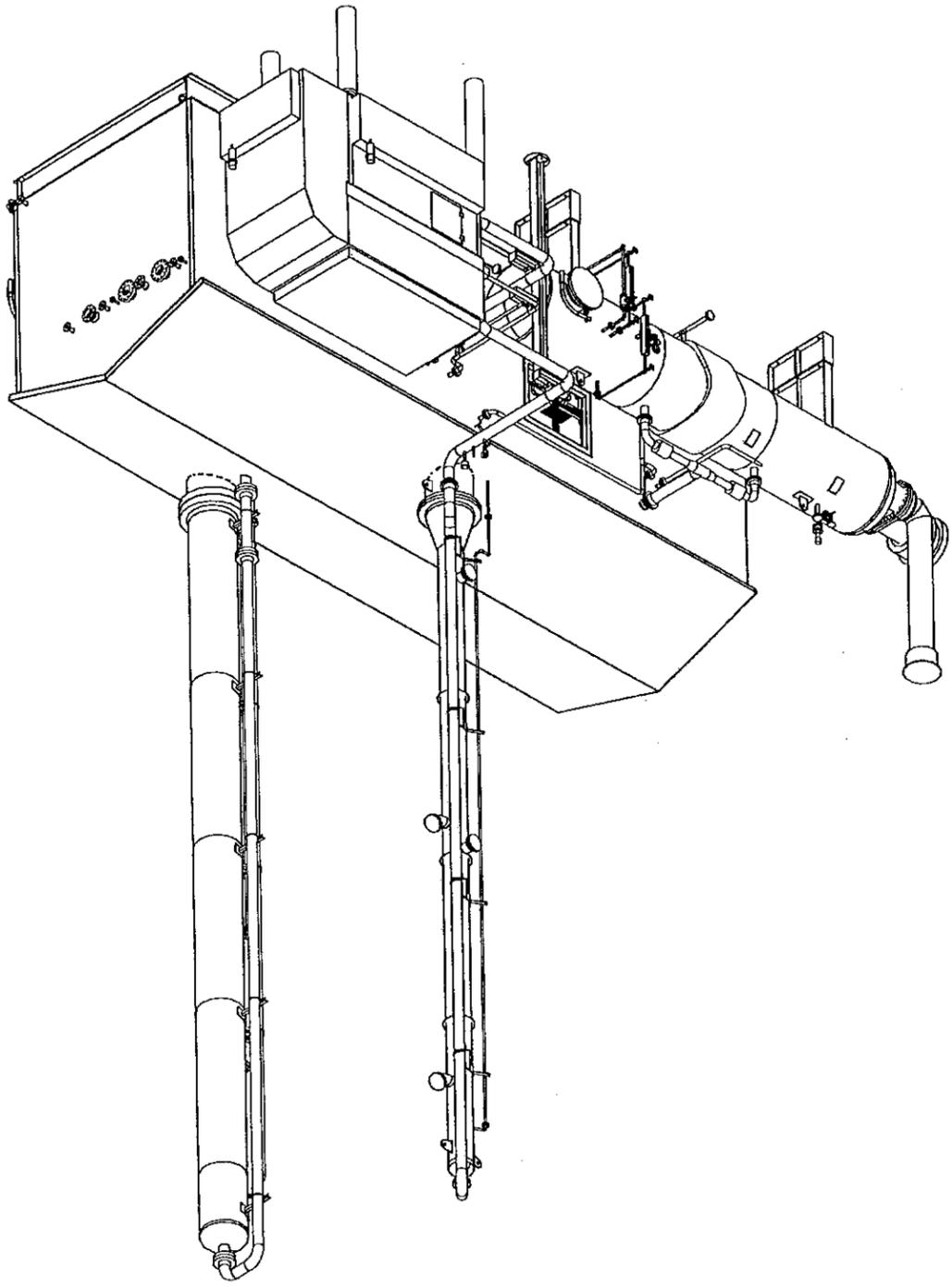


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REV.	DESCRIPTION	DATE	BY	APPR.
A	ISSUED FOR INFORMATION	FEB 21/06	DAM	SM
B	TAG CHANGES AND GENERAL REVISIONS	APR 6/06	DAM	SM
C	ALTERED REBOILER / CUSTOMER REVISIONS	APR 18/06	DAM	SM
D	ISSUED WITH PROJECT MANUAL	JUN 01/06	GS	SM

DESIGN NO.	12038-200
SHEET NO.	3
REV.	D
DRWN BY:	D. MOFFAT
DATE:	JAN 06, 2006
SCALE:	N.T.S.
APPV BY:	K. HEALE
NO. NO.:	12038200
CONS. PO NO.:	K. HEALE

TITLE: ISOMETRIC VIEWS

FOR: ALTAGAS
15 MMSCFD 25-54 GPM
AMINE UNIT

ENGINEER STAMP: [Signature]

PERMIT TO PRACTICE STAMP: [Signature]

TOROMONT PROCESS SYSTEMS

REV. NO.	3	SHEET NO.	1	DWG. NO.	12038-201
DATE	JUN 01/06	BY	SM	DESCRIPTION	AS BUILT
DATE	APR 13/06	BY	SM	DESCRIPTION	ADDED AS BUILT SKID EDGE CONNECTION LOCATIONS
DATE	APR 06/06	BY	SM	DESCRIPTION	TAG CHANGES AND GENERAL REVISIONS
DATE	MAR 21/06	BY	SM	DESCRIPTION	CUSTOMER REVISIONS
DATE	JAN 25/06	BY	SM	DESCRIPTION	ISSUED FOR CONSTRUCTION
DATE	DEC 23/05	BY	SM	DESCRIPTION	ISSUED FOR STRUCTURAL

DRWN. BY	D. MORFAT	DATE	DEC 22, 2005
CHKD. BY	K. HEALE	SCALE	1 : 25
APP. BY	K. HEALE	DWG. NO.	12038201
DESIGN. NO.		PROJECT NO.	

MARK		SERVICE		SIZE		RATING		TYPE		CUSTOMER TAG NO.
A21	AS BUILT	H510 TO V507	YES	6"	150#	R	RWN	YES	9755	4150
A22	AS BUILT	FUEL GAS TO H510 BURNER	YES	2"	150#	R	RWN	YES	10080	4150
A23	AS BUILT	V507 TO H510	YES	2"	150#	R	RWN	YES	6206	4133
A24	AS BUILT	H510 TO PS16/17	YES	3"	150#	R	RWN	YES	7650	4150
A25	AS BUILT	H510 TO AMINE DRAIN	YES	2"	150#	R	RWN	YES	10050	4150
A26	AS BUILT	AMINE DRAIN	YES	2"	150#	R	RWN	YES	11840	-158
A27	AS BUILT	SKID DRAIN	YES	2"	150#	R	R	YES	12150	3375
A28	AS BUILT	AMINE LEAKAGE RECOVERY	YES	2"	150#	R	R	YES	6900	0
A29	AS BUILT	RECYCLE LIQUIDS INLET	YES	2"	150#	R	R	YES	9748	-150
A30	AS BUILT	RECYCLE LIQUIDS INLET (SEE 12038-200)	YES	2"	150#	R	R	YES	9748	-150
A31	AS BUILT	RECYCLE LIQUIDS TO H510	YES	2"	150#	R	R	YES	9748	4150

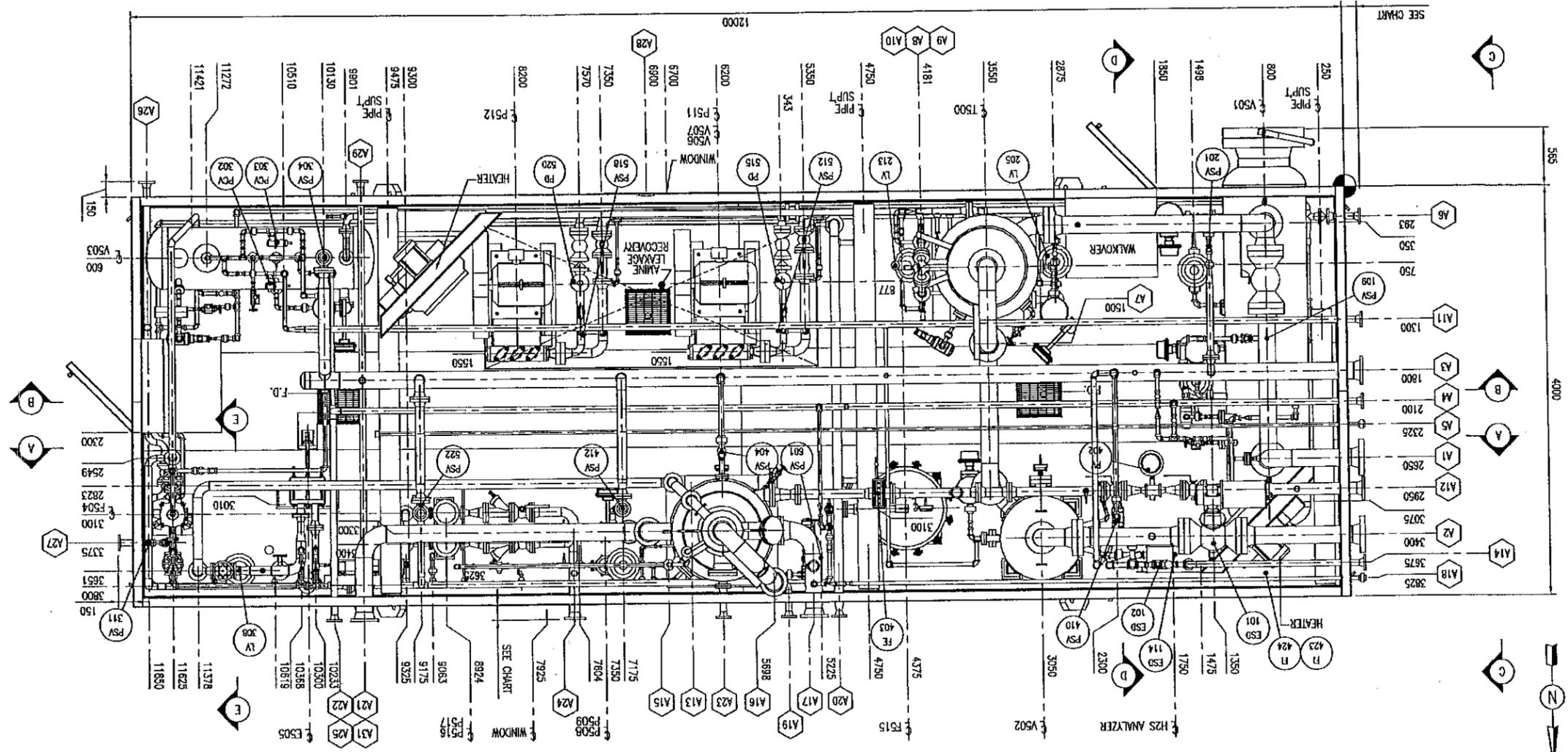
MARK		SERVICE		SIZE		RATING		TYPE		CUSTOMER TAG NO.
A11	AS BUILT	SOUR GAS TO COMP. DISCHARGE	YES	6"	800#	R	RWN	YES	-138	2650
A12	AS BUILT	SWEET GAS TO REFRIGERATION UNIT	YES	6"	600#	R	RWN	YES	-144	3400
A13	AS BUILT	FLARE HEADER	YES	6"	150#	R	RWN	YES	-145	1800
A14	AS BUILT	FUEL GAS SUPPLY	YES	2"	150#	R	RWN	YES	-147	2100
A15	AS BUILT	INSTRUMENT AIR SUPPLY	YES	1"	3000#	N	R	YES	-150	2325
A16	AS BUILT	HYDROCARBON DRAIN	YES	2"	150#	R	RWN	YES	-160	293
A17	AS BUILT	T500 VAPOR TO V502	NO	6"	600#	R	RWN	NO	n/a	n/a
A18	AS BUILT	T500 LEAN AMINE INLET (TRAY 20)	NO	2"	600#	R	RWN	NO	n/a	n/a
A19	AS BUILT	T500 LEAN AMINE INLET (TRAY 16)	NO	2"	600#	R	RWN	NO	n/a	n/a
A20	AS BUILT	T500 LEAN AMINE INLET (TRAY 12)	NO	2"	600#	R	RWN	NO	n/a	n/a

MARK		SERVICE		SIZE		RATING		TYPE		CUSTOMER TAG NO.
A11	AS BUILT	SOUR GAS TO COMPRESSOR SUCTION	YES	2"	150#	R	RWN	YES	-147	1300
A12	AS BUILT	TO LP FLARE	YES	4"	150#	R	RWN	YES	-160	2950
A13	AS BUILT	RICH AMINE FEED TO V506	NO	3"	150#	R	RWN	NO	n/a	n/a
A14	AS BUILT	BLOWDOWN TO COMPRESSOR SUCTION	YES	2"	150#	R	RWN	YES	-149	3675
A15	AS BUILT	P508/09 TO V506	NO	1"	150#	R	R	NO	n/a	n/a
A16	AS BUILT	V508 VAPOR TO E513	YES	6"	150#	R	RWN	YES	5698	3802
A17	AS BUILT	E513 TO V507	YES	6"	150#	R	RWN	YES	5297	4142
A18	AS BUILT	WATER/AMINE MAKE UP	YES	1"	3000#	N	R	YES	-147	3825
A19	AS BUILT	P505 TO E514	YES	2"	150#	R	RWN	YES	5653	4153
A20	AS BUILT	E514 TO PS11/12	YES	2"	150#	R	RWN	YES	5046	4150

MARK		SERVICE		SIZE		RATING		TYPE		CUSTOMER TAG NO.
A11	AS BUILT	SOUR GAS TO COMPRESSOR SUCTION	YES	2"	150#	R	RWN	YES	-147	1300
A12	AS BUILT	TO LP FLARE	YES	4"	150#	R	RWN	YES	-160	2950
A13	AS BUILT	RICH AMINE FEED TO V506	NO	3"	150#	R	RWN	NO	n/a	n/a
A14	AS BUILT	BLOWDOWN TO COMPRESSOR SUCTION	YES	2"	150#	R	RWN	YES	-149	3675
A15	AS BUILT	P508/09 TO V506	NO	1"	150#	R	R	NO	n/a	n/a
A16	AS BUILT	V508 VAPOR TO E513	YES	6"	150#	R	RWN	YES	5698	3802
A17	AS BUILT	E513 TO V507	YES	6"	150#	R	RWN	YES	5297	4142
A18	AS BUILT	WATER/AMINE MAKE UP	YES	1"	3000#	N	R	YES	-147	3825
A19	AS BUILT	P505 TO E514	YES	2"	150#	R	RWN	YES	5653	4153
A20	AS BUILT	E514 TO PS11/12	YES	2"	150#	R	RWN	YES	5046	4150

MARK		SERVICE		SIZE		RATING		TYPE		CUSTOMER TAG NO.
A11	AS BUILT	SOUR GAS TO COMPRESSOR SUCTION	YES	2"	150#	R	RWN	YES	-147	1300
A12	AS BUILT	TO LP FLARE	YES	4"	150#	R	RWN	YES	-160	2950
A13	AS BUILT	RICH AMINE FEED TO V506	NO	3"	150#	R	RWN	NO	n/a	n/a
A14	AS BUILT	BLOWDOWN TO COMPRESSOR SUCTION	YES	2"	150#	R	RWN	YES	-149	3675
A15	AS BUILT	P508/09 TO V506	NO	1"	150#	R	R	NO	n/a	n/a
A16	AS BUILT	V508 VAPOR TO E513	YES	6"	150#	R	RWN	YES	5698	3802
A17	AS BUILT	E513 TO V507	YES	6"	150#	R	RWN	YES	5297	4142
A18	AS BUILT	WATER/AMINE MAKE UP	YES	1"	3000#	N	R	YES	-147	3825
A19	AS BUILT	P505 TO E514	YES	2"	150#	R	RWN	YES	5653	4153
A20	AS BUILT	E514 TO PS11/12	YES	2"	150#	R	RWN	YES	5046	4150

MARK		SERVICE		SIZE		RATING		TYPE		CUSTOMER TAG NO.
A11	AS BUILT	SOUR GAS FROM COMP. DISCHARGE	YES	6"	800#	R	RWN	YES	-138	2650
A12	AS BUILT	SWEET GAS TO REFRIGERATION UNIT	YES	6"	600#	R	RWN	YES	-144	3400
A13	AS BUILT	FLARE HEADER	YES	6"	150#	R	RWN	YES	-145	1800
A14	AS BUILT	FUEL GAS SUPPLY	YES	2"	150#	R	RWN	YES	-147	2100
A15	AS BUILT	INSTRUMENT AIR SUPPLY	YES	1"	3000#	N	R	YES	-150	2325
A16	AS BUILT	HYDROCARBON DRAIN	YES	2"	150#	R	RWN	YES	-160	293
A17	AS BUILT	T500 VAPOR TO V502	NO	6"	600#	R	RWN	NO	n/a	n/a
A18	AS BUILT	T500 LEAN AMINE INLET (TRAY 20)	NO	2"	600#	R	RWN	NO	n/a	n/a
A19	AS BUILT	T500 LEAN AMINE INLET (TRAY 16)	NO	2"	600#	R	RWN	NO	n/a	n/a
A20	AS BUILT	T500 LEAN AMINE INLET (TRAY 12)	NO	2"	600#	R	RWN	NO	n/a	n/a



- GENERAL NOTES:**
- ALL TAG DIMENSIONS FROM REFERENCE POINT.
 - SHIPPING LENGTH: 12300 MM
 - SHIPPING WIDTH: 4800 MM
 - SHIPPING HEIGHT: 4900 MM
 - SHIPPING WEIGHT: 51852 KGS
 - OPERATING WEIGHT: 66492 KGS
 - OVERALL SKID DEPTH: 462 MM
 - NOZZLE ELEVATIONS ARE FROM CENTRELINE OF PIPE TO TOP OF BASE (REFERENCE POINT).
 - (*) DENOTES ELEVATION FROM FACE OF FLANGE TO TOP OF BASE (REFERENCE POINT).
 - CENTER OF GRAVITY (OPERATING): 5116 MM 'X' FROM REFERENCE POINT: 1687 MM 'Z' FROM REFERENCE POINT: 3482 MM
 - CENTER OF GRAVITY (SHIPPING): 5394 MM 'X' FROM REFERENCE POINT: 2044 MM 'Z' FROM REFERENCE POINT: 1256 MM

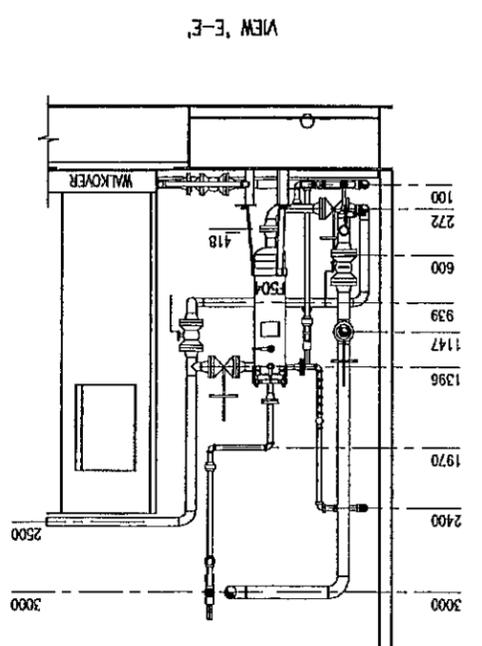
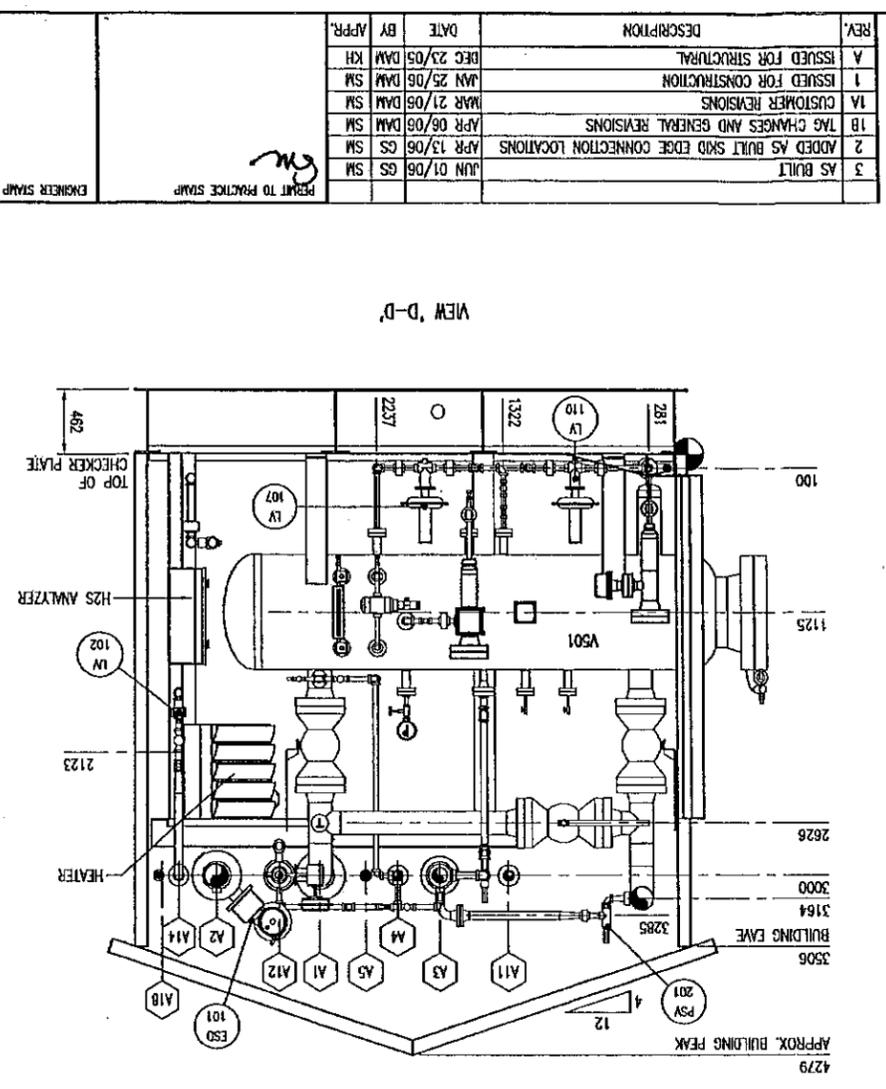
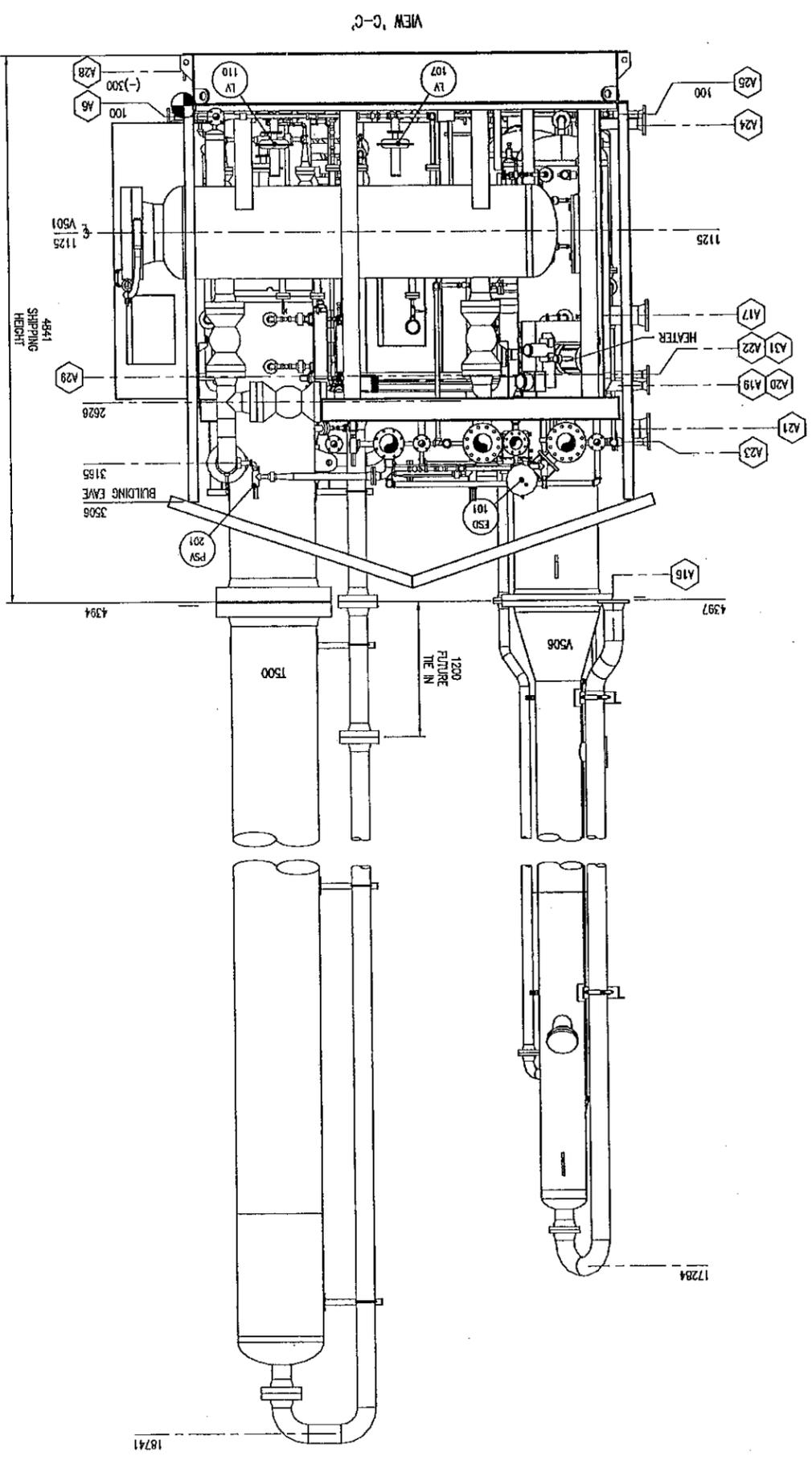
NOTE: 1/16" TOLERANCE ON ALL SKID EDGE CONNECTIONS

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TOROMONT PROCESS SYSTEMS.



REV.	DESCRIPTION	DATE	BY	APP'R.
3	AS BUILT	JUN 01/06	GS	SM
2	ADDED AS BUILT SWID EDGE CONNECTION LOCATIONS	APR 13/06	GS	SM
1B	TAG CHANGES AND GENERAL REVISIONS	APR 06/06	DAM	SM
1A	CUSTOMER REVISIONS	MAR 21/06	DAM	SM
1	ISSUED FOR CONSTRUCTION	APR 25/06	DAM	SM
A	ISSUED FOR STRUCTURAL	DEC 23/05	DAM	KH

DESIGN NO.:	12038-201
DATE:	DEC 22, 2005
DESIGNED BY:	D. WOFFAT
CHECKED BY:	K. HEALE
SCALE:	1 : 25
PROJECT NO.:	12038201
PROJECT NAME:	15 MMSCFD 25-54 GPM ALTAGAS AMINE UNIT

FOR: **TOROMONT PROCESS SYSTEMS**

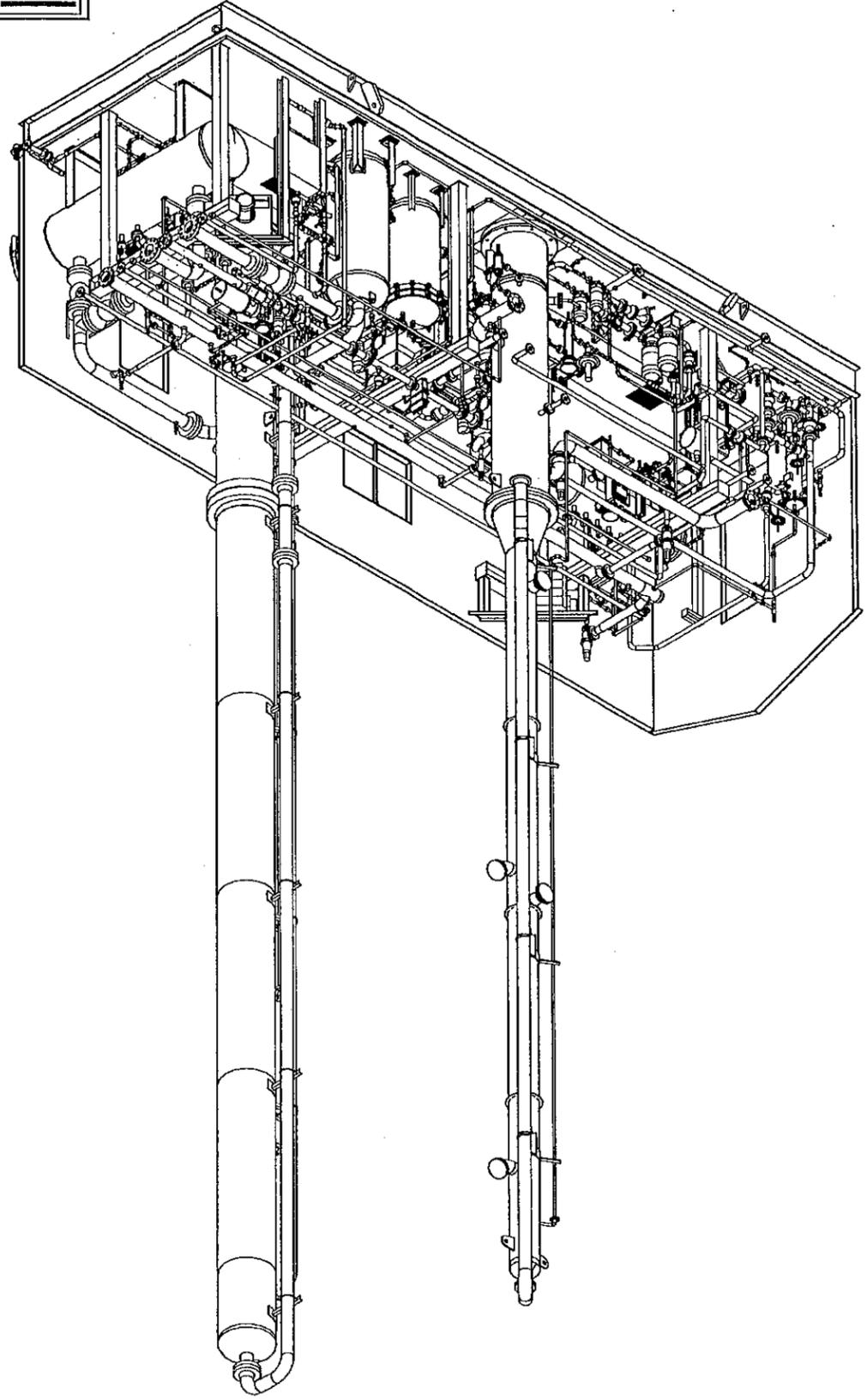
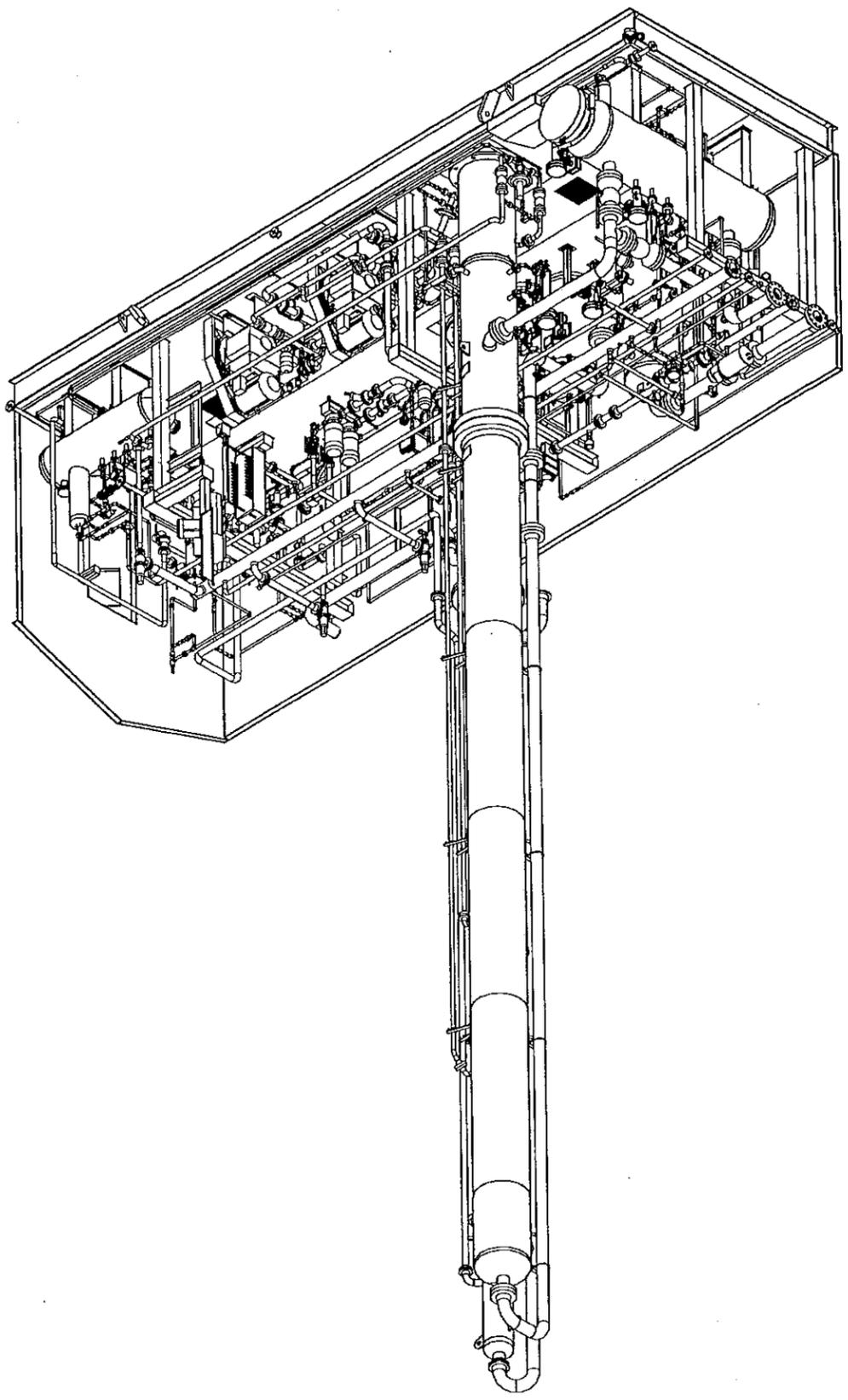
TITLE: VIEW 'C-C'

ENGINEER STAMP: *[Signature]*

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TOROMONT PROCESS SYSTEMS.



REV.	DESCRIPTION	DATE	BY	APPR.
3	AS BUILT	JUN 01/06	GS	SM
2	ADDED AS BUILT SKID CONNECTION LOCATIONS	APR 13/06	GS	SM
1B	TAG CHANGES AND GENERAL REVISIONS	APR 06/06	DAM	SM
1A	CUSTOMER REVISIONS	MAR 21/06	DAM	SM
1	ISSUED FOR CONSTRUCTION	JAN 25/06	DAM	SM
A	ISSUED FOR STRUCTURAL	DEC 23/05	DAM	KH

REPORT TO PRACTICE STAMP
SM

ENGINEER STAMP

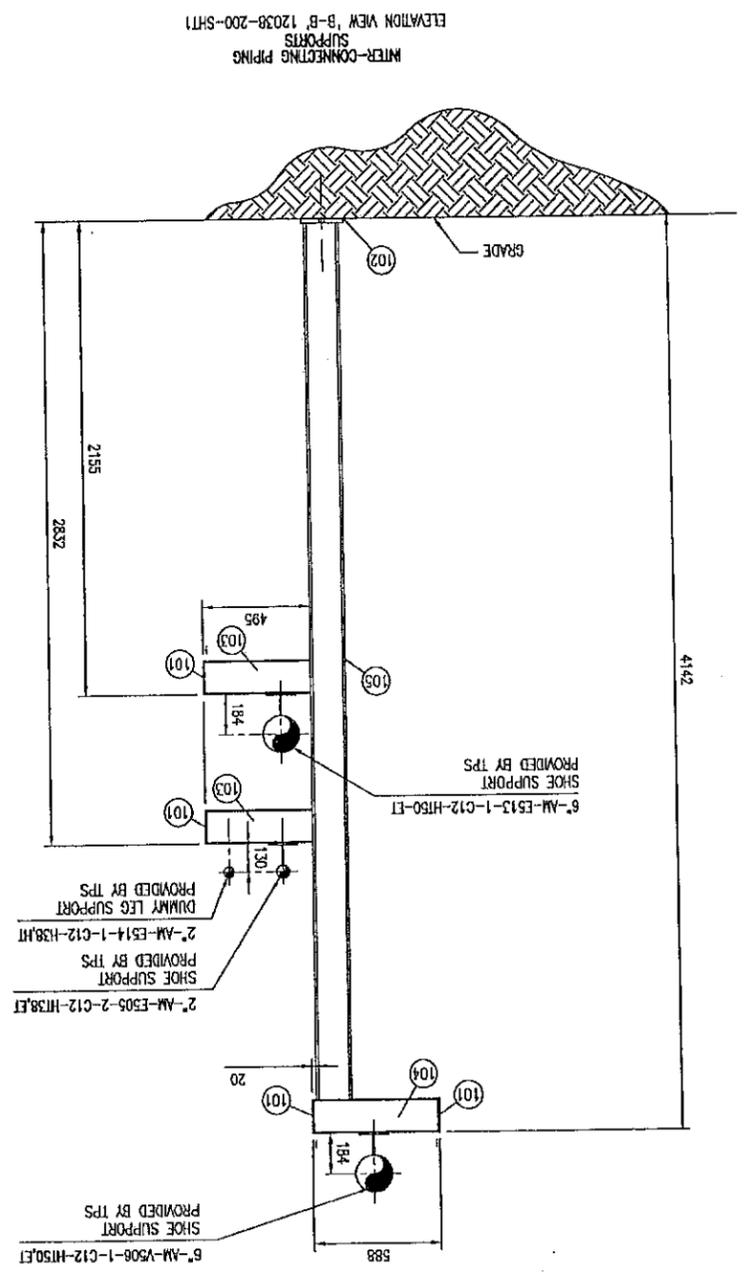


DRWN BY: D. MOFFAT	DATE: DEC 22, 2005	SCALE: 1 : 25	APP'D BY: K. HEALE	W.D. NO.: 12038201	CRST. PD. NO.:
FOR: ALTAGAS 15 MMSCFD 25-54 GPM AMINE UNIT					
TITLE: ISOMETRIC VIEWS					
SHEET NO. 5		NO. 12038-201		REV. 3	

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A TOROMONT PROCESS SYSTEMS



INTER-CONNECTING PIPING SUPPORTS
ELEVATION VIEW 'B-B' 12038-200-SHT1

REV.	DESCRIPTION	DATE	BY	APPR.
B	ISSUED WITH PROJECT MANUAL	JUN 06/06	SM	SM
A	ISSUED FOR INFORMATION	MAR 09/06	SM	SM

PERMIT TO PRACTICE STAMP

ENGINEER STAMP



NO.:	12038-300
SHEET NO.:	1
REV.:	B
CUST. PO NO.:	12038300
APPR. BR.:	S. MARKUS
CHKD. BR.:	S. MARKUS
DATE:	MAR 08, 2006
DRAWN BY:	D. MOFTAI
SCALE:	1 : 16
FOR:	ALTAGAS 15 MMSCFD 25-54 GPM AMINE UNIT
TITLE:	INTER-CONNECTING PIPE SUPPORT DETAILS

GENERAL NOTES:

1. ALL TALL DIMENSIONS FROM REFERENCE POINT.
2. WEIGHT OF MISC SUPPORTS: 200 KGS
3. COPE FLANGES WHERE REQUIRED.
4. ALL WELDS TO BE 1/4" FILLETS ALL AROUND, UNLESS OTHERWISE NOTED.
5. ALL CUT LENGTHS ARE EXACT TO $+0.0"/-0.125"$ ($+0$ MM/ -3 MM)
6. SUPPORTS SHOWN ARE LOCATED ON LAYOUT BY TFS AND SUPPLIED BY OTHERS. THIS IS NOT A CONSTRUCTION DRAWING. THIS DRAWING IS INTENDED TO SHOW NECESSARY PIPING SUPPORT ELEVATIONS AND POSSIBLE MATERIAL USE.

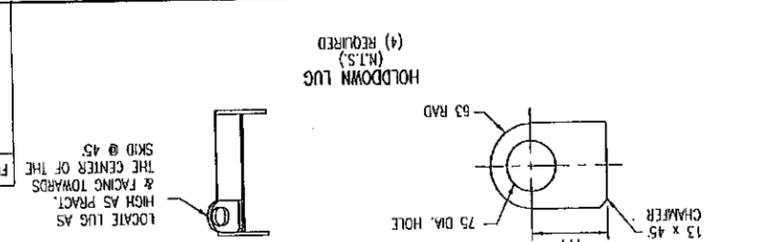
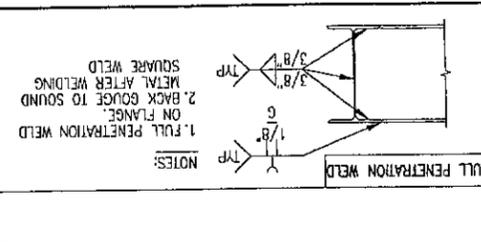
ITEM	QTY	DESCRIPTION	LENGTH
101	4	FLAT BARE 6x1/4"	152
102	1	PLATE: 3/4"	300
103	2	WSX15	489
104	1	WSX15	575
105	1	WSX25	3971

BILL OF MATERIAL

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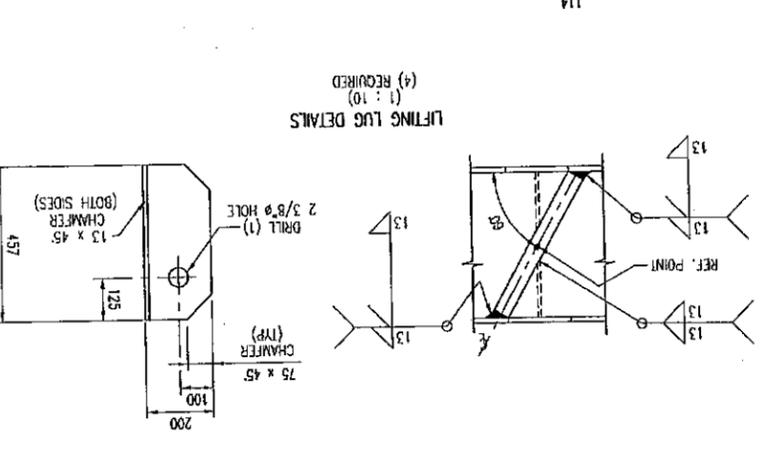
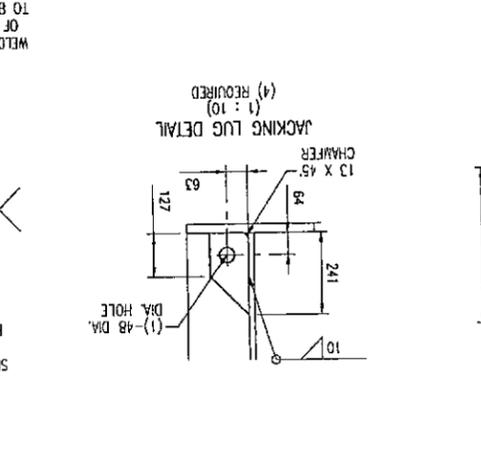
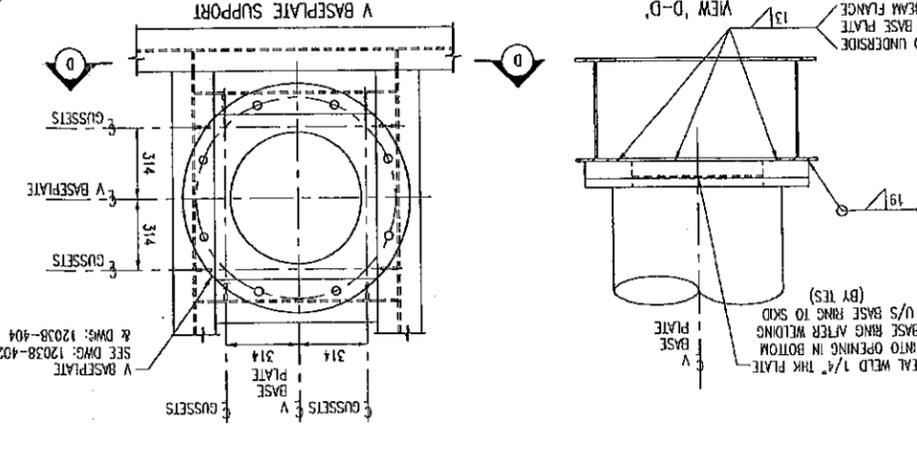
SHEET NO. 1		REV. 2	
DWG. NO. 12038-301		DATE: DEC 22, 2005	
APPR. BY: K. HEALE		DATE: JUN 05, 06	
CHKD. BY: K. HEALE		DATE: JAN 04, 06	
SCALE: 1 : 25		DATE: DEC 23, 05	
DRAWN BY: D. MORFAT		DATE: JUN 05, 06	
PROJECT: TOROMONT PROCESS SYSTEMS		DATE: DEC 23, 05	
TITLE: STRUCTURAL STEEL		DATE: DEC 23, 05	

REV.	DESCRIPTION	DATE	BY	APPR.
2	AS BUILT	JUN 05, 06	CS	
1	ISSUED FOR CONSTRUCTION	JAN 04, 06	DAM KH	
A	ISSUED FOR STRUCTURAL	DEC 23, 05	DAM KH	

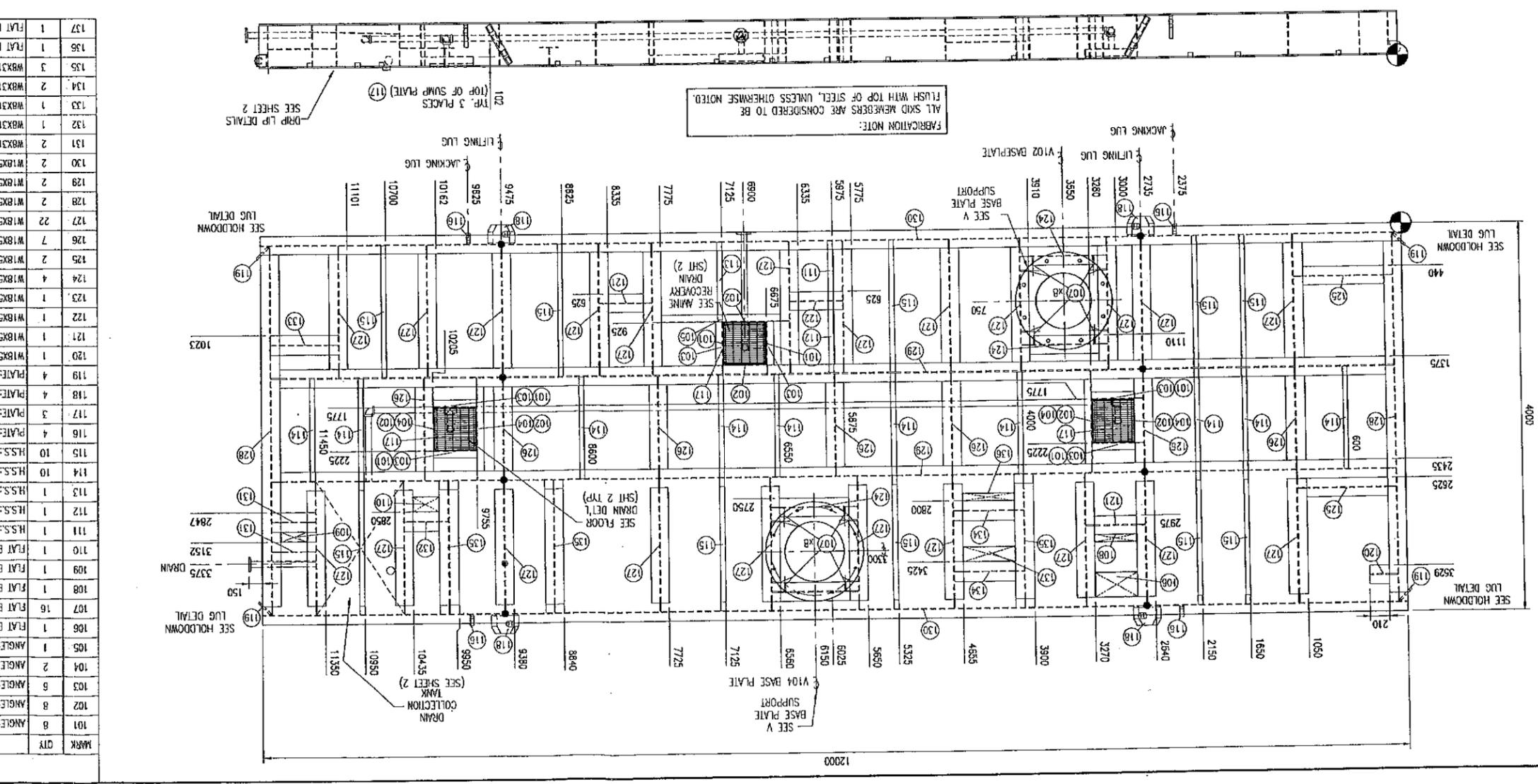


GENERAL NOTES:

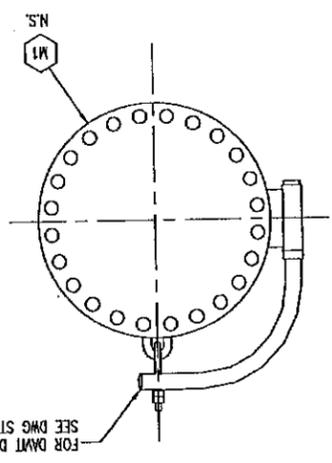
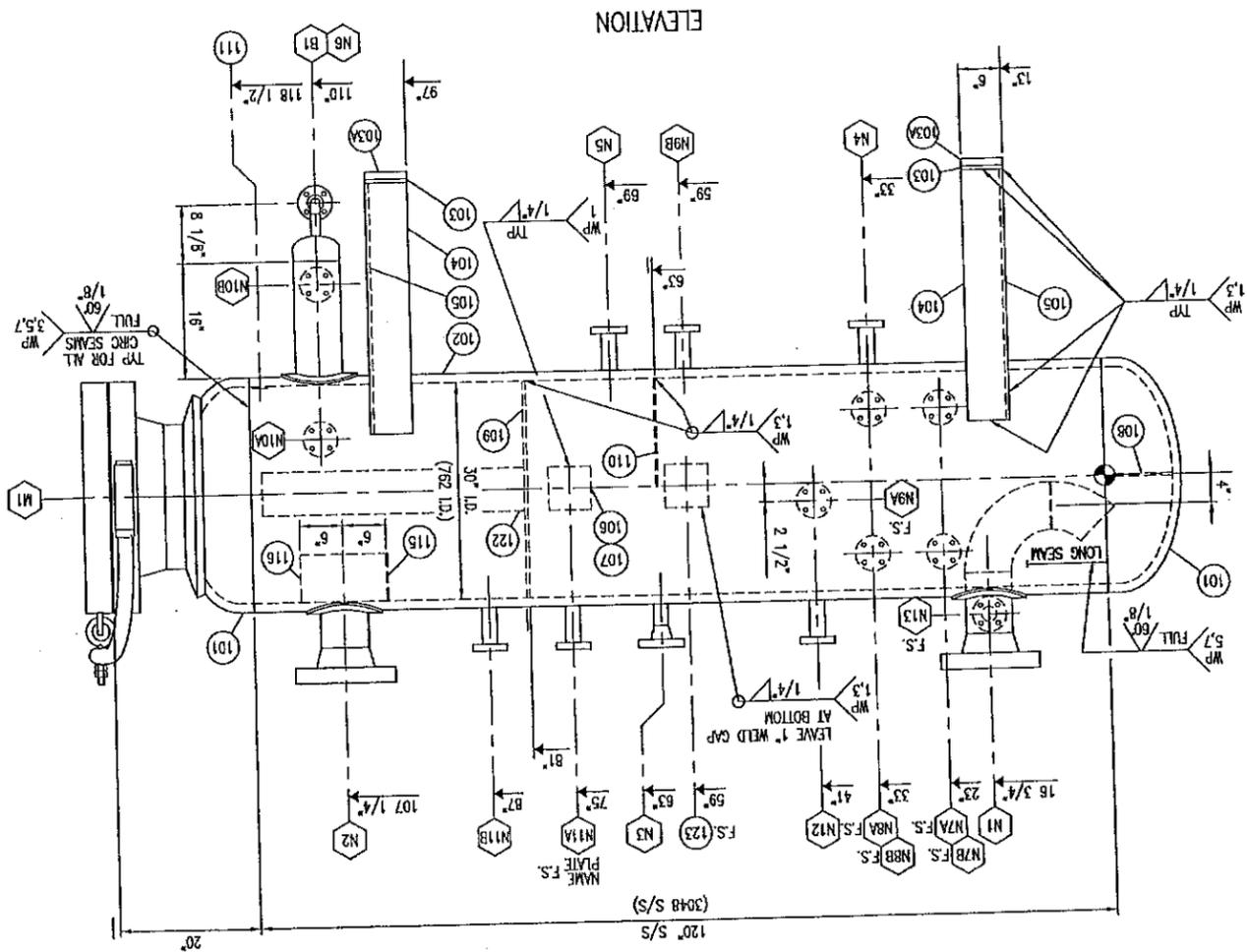
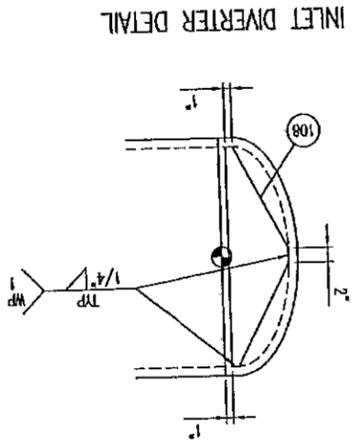
- ALL TAIL DIMENSIONS FROM REFERENCE POINT.
- WEIGHT OF SKID STEEL BASE: 8200 KGS
- WEIGHT OF CHECKER PLATE: 1200 KGS
- PRIMER: ONE COAT OF RUSTEX 71029 (RED OXIDE)
- PAINT: ONE COAT OF INDUSTRIAL ENAMEL 74 (COLOR TFS GRAY)
- SURFACE PREP: SANDBLAST TO SSPC-SP6
- PERIMETER AND ALL PANEL JOINTS OF CHECKER PLATE ARE TO BE SEALED. SKID MEMBERS TO UNDERSIDE OF CHECKER PLATE TO BE WELDED.
- SKID MEMBERS TO UNDERSIDE OF CHECKER PLATE TO BE SEALED. PERIMETER AND ALL PANEL JOINTS OF CHECKER PLATE ARE TO BE SEALED.
- FULL PENETRATION STRENGTH WELD IS REQUIRED AT THESE LOCATIONS.
- COPE FLANGES WHERE REQUIRED.
- ALL WELDS TO BE 1/4" FILLETS ALL AROUND, UNLESS OTHERWISE NOTED.
- ALL CUT LENGTHS ARE EXACT TOL +0.0/-0.125" (+0 MM/-3 MM)
- NOTE: MILL TOLERANCE AND SAFETY FACTORS NOT APPLIED
- WEIGHT OF SKID STEEL BASE: 8200 KGS
- WEIGHT OF CHECKER PLATE: 1200 KGS
- TOTAL WEIGHT: 11475 KGS



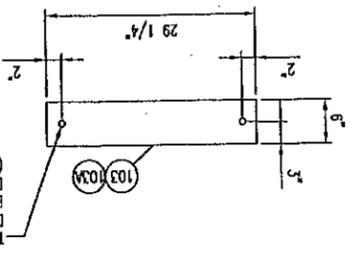
MARK	QTY	LENGTH	WEIGHT
101	8	440	5.51
102	8	450	6.03
103	6	541	25.69
104	2	1061	16.60
105	1	1421	11.50
106	1	439	8.35
107	16	428	52.05
108	1	439	2.50
109	1	289	2.05
110	1	282	3.21
111	1	625	5.03
112	1	741	5.55
113	1	807	6.23
114	10	1051	80.42
115	10	1365	105.81
116	4	240	22.90
117	3	541	35.98
118	4	456	162.94
119	4	178	9.73
120	1	300	18.38
121	1	551	33.03
122	1	560	41.64
123	1	621	38.24
124	4	901	236.30
125	2	1041	139.04
126	7	1051	491.66
127	2	1356	2061.47
128	2	3801	549.72
129	2	11801	1740.25
130	2	12000	1785.80
131	2	451	35.03
132	1	470	16.56
133	1	704	30.85
134	2	740	58.04
135	3	1366	184.49
136	1	552	3.15
137	1	552	6.29



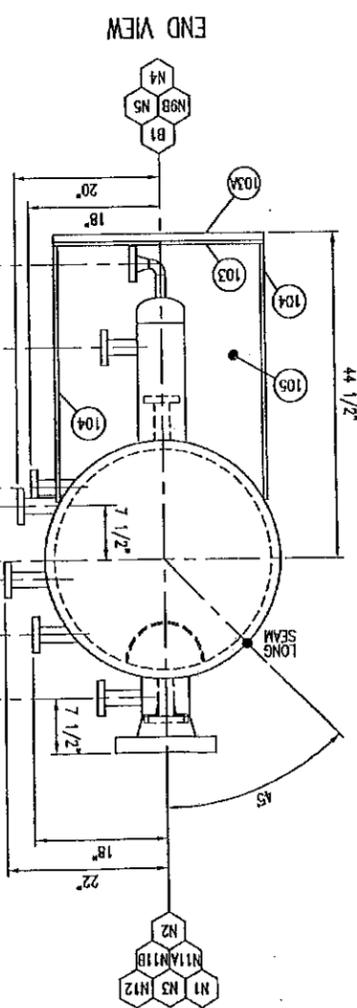
BILL OF MATERIAL



SOUR SERVICE



TOP PLATE: ITEM #103
 DRILL 7/8" DIA HOLE THRU (2 PLACES)
 BOTTOM PLATE: ITEM #103
 DRILL AND TAP 3/4" DIA HOLE THRU 7/8" DEEP
 (2 PLACES)



REV.	DESCRIPTION	DATE	BY	APPV.
2	AS BUILT	JUN 13/06	GS	
1	ISSUED FOR CONSTRUCTION	JAN 09/06	PTH	
0	ISSUED FOR PURCHASING	DEC 16/05	RVA	

DATE:	DEC 13, 2005
DRAWN BY:	REGINO ABAD
CHKD BY:	K. HEALE
APPV. BY:	W.YU
W.O. No.:	12038401
CST. PO No.:	

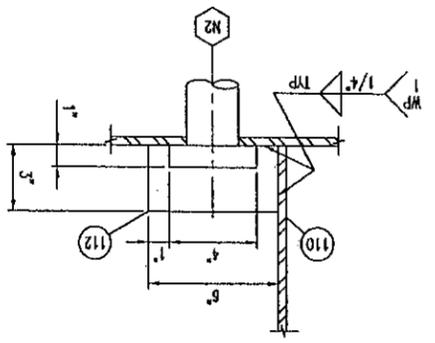
REV.:	12038-401
SHEET No.:	2 OF 2
REV.:	2

FOR: TOROMONT PROCESS SYSTEMS
 TITLE: V101 INLET FILTER COALESCER
 30" I.D. X 120" S/S

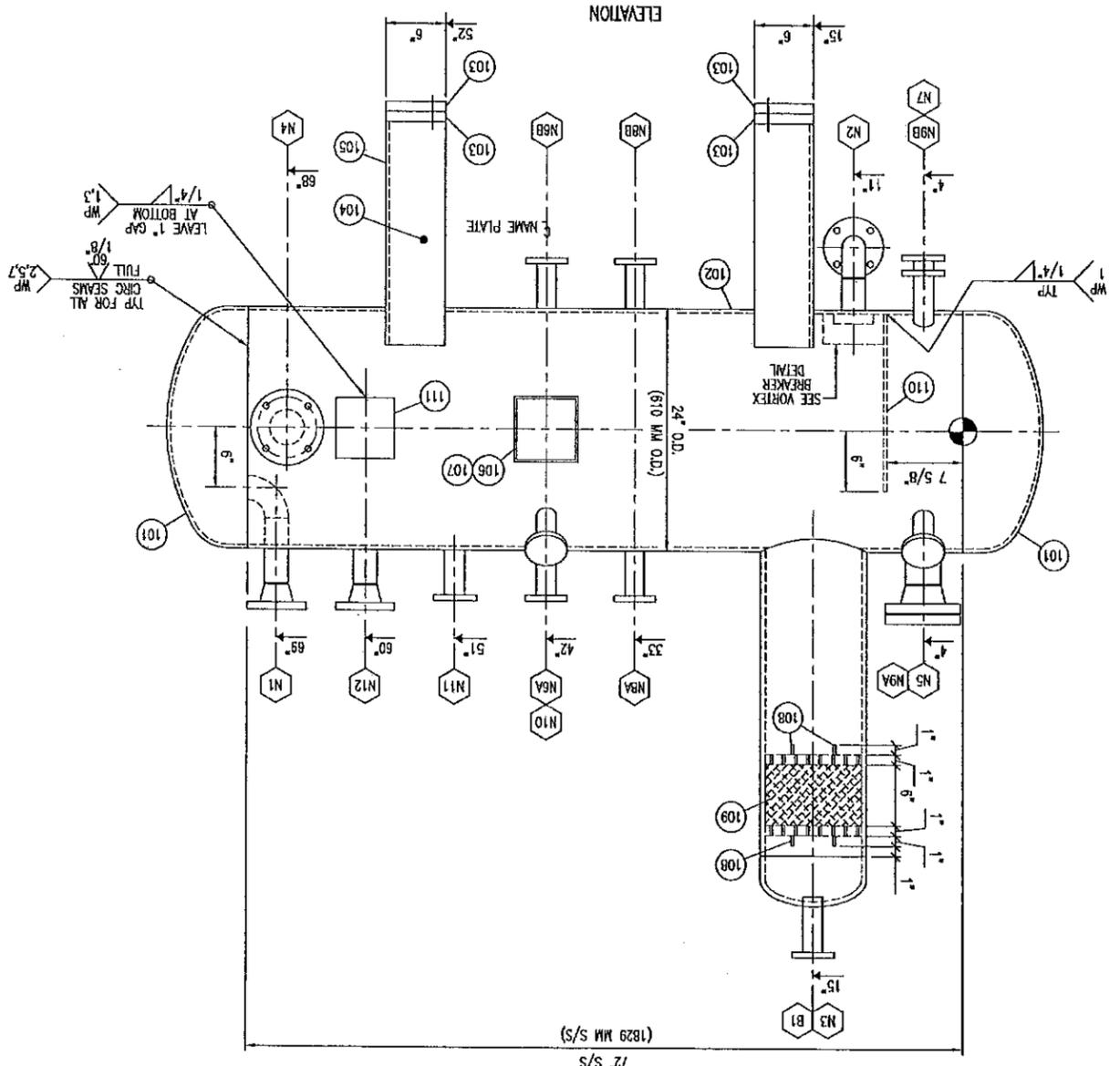
ALTAGAS
 15 MMSCFD 25-54 GPM
 AMINE UNIT

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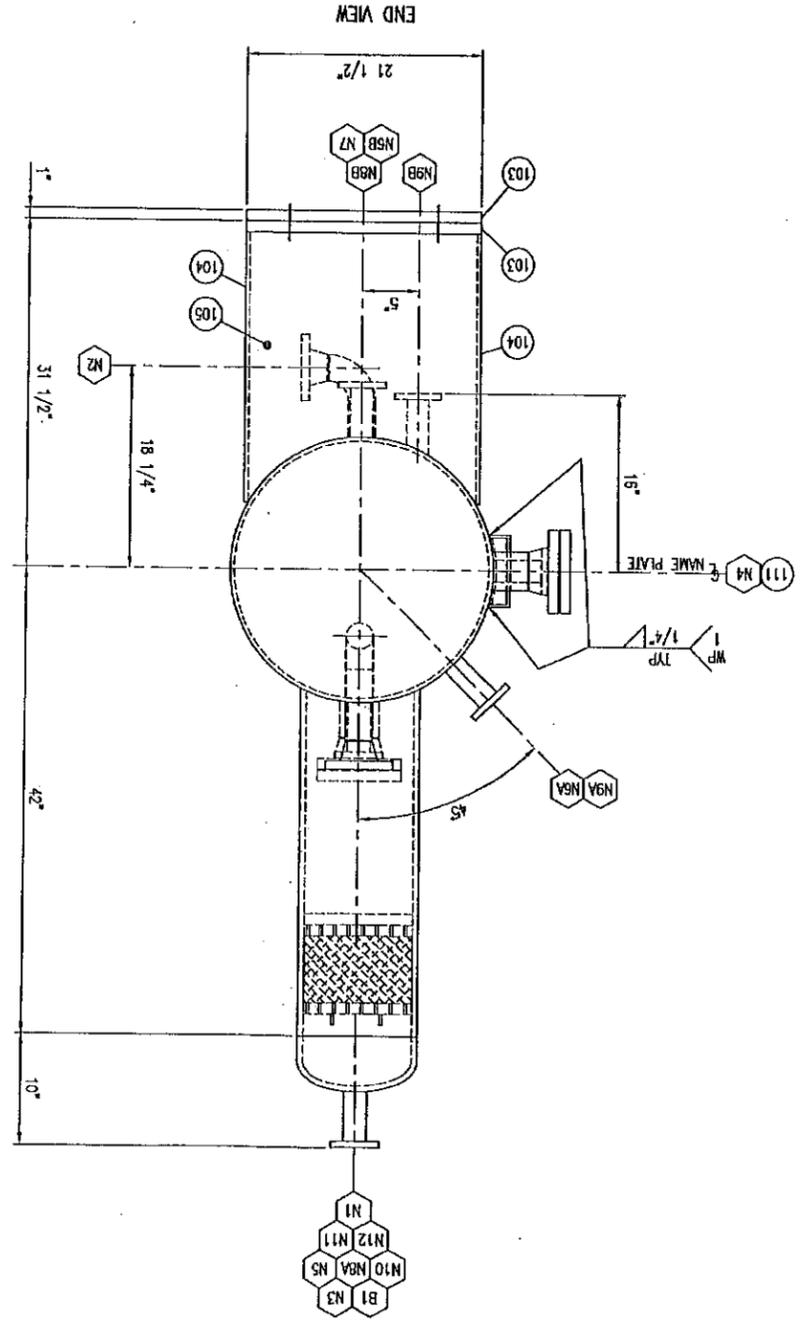
VORTEX BREAKER DETAIL
(1 1/2" : 1'-0") (1) REQUIRED



ELEVATION



END VIEW



REV.	DESCRIPTION	DATE	BY	APP.
2	AS BUILT	JUN 13/06	GS	[Signature]
1	ISSUED FOR CONSTRUCTION	JAN 04/06	PH	KH
A	ISSUED FOR PURCHASING	DEC 16/05	RVA	KH



TITLE: V106 AMINE FLASH DRUM
 24" O.D. x 72' S/S
 FOR: ALTAGAS
 15 MMSCFD 25-54 GPM
 AMINE UNIT
 SHEET NO. 2 OF 2
 PROJ. NO. 12038-405

DESIGNER: REGINO ABAD	DATE: DEC 13, 2005
CHECKED BY: K. HEALE	SCALE: 3/4" = 1'-0"
APPROVED BY: W. YU	PROJECT NO.: 12038405