

DESCRIPTION

WELL CONTROL

Vetco H-4 Type HD 15,000 PSI

18-3/4" 15,000# WP Shaffer Type "SLX" Double Blowout Preventer

18-3/4" x 15,000# WP BX-164 studded top x 18-3/4" x 15,000# WP BX-164 flanged bottom w/ 4 ea. 3-1/16" 15,000# WP BX-164 side outlets internal H₂S trim.

14" Ultra Lock II Cylinders, complete w/E2 swing doors hinges, low torque door bolts and pressure energized door bolts - complete w/ SS lined ring grooves.. 16" boosters installed on each ram.

*1- Stack Mounted Wellbore Pressure and Temperature Transducer 0-15,000 psi and 0-350°F.

18-3/4" 15,000# WP Shaffer Type "SL-D" Double Blowout Preventer

18-3/4" x 15,000# WP BX-154 studded top x 18-3/4" x 15,000# WP BX-164 flanged bottom w/ 4 ea. 3-1/16" 15,000# WP BX-164 side outlets internal H₂S trim.

14" Ultra Lock II Cylinders, complete w/E2 swing doors hinges, low torque door bolts and pressure energized door bolts - complete w/ SS lined ring grooves. 16" ram boosters installed.

18-3/4"- 5,000# WP Shaffer Spherical Blowout Preventer

18-3/4" Vertical Bore, 18-3/4" - 5,000 WP BX-163 studded top x 18-3/4"- 15,000# WP BX-164 flanged bottom w/ 1 ea. 3-1/16" 15,000# studded outlet, internal H₂S trim - SS lined rig grooves

Cameron Iron Works Adapter Spool

18-3/4" 5,000 WP BX-163 flanged bottom x 18-3/4" 10,000 WP "AX" hub top - w/ SS lined ring grooves - +/- 56" tall for passive re-entry formal assembly.

Cameron Iron Collet Connector

Model 70 - 18-3/4" 10,000 WP "AX" SS clamp hub bottom x 18-3/4" 15,000 WP - BX-164 flanged top w/ manual outer ridges and slot for tubing hanger orientation w/ secondary open port. All ring grooves SS lined.

18-3/4"- 10,000# WP Shaffer Spherical Blowout Preventer

18-3/4" Vertical Bore, 18-3/4" -10,000 WP BX-163 studded top x 18-3/4"- 15,000# WP BX-164 flanged bottom w/ 1 ea. 3-1/16" 15,000# studded outlet, internal H₂S trim - SS lined rig grooves

Oil States Flex Joint 3500 PSI with API Type 18-3/4" -5000 6BX Flange top up and down replaceable ring groove inserts.

Shaffer Riser Adapter Riser connector, Shaffer DT-2 pin up and 18-3/4" 5000# WP flange down complete with choke and kill sub kick outs. Has replaceable full bore wear sleeve and replaceable ring groove insert.

Five (5) sets - Gate Valve, Hyd. Operated 3-1/16"- 15,000 WP Shaffer type "HB" 3-1/16" Bore, 3-1/16" - 15,000 WP BX-154 flanged inlet.

DESCRIPTION

WELL CONTROL

- (1) - flanged and
- (2) - studded 15,000# outlets.

(1) Blind "Pocket" target flange included on end outlet, H₂S trim, SS lined ring grooves, short sea chest, (There will be (1) set under each ram and (1) set under the LMRP annular).

RAM ASSEMBLIES

- Blind/shear ram (1 set)
- 3-1/2" x 5-1/2" Variable Bore - (2 sets)
- 5-1/2" Drill Pipe Rams (1 set)

MARINE RISER PACKAGE

*88 jts. Shaffer Type "DT-2" Riser, 75' O.A.L. w/ 1 ea. 15,000 WP PSI choke and 1 ea. 15,000 WP PSI kill line, 1 ea. Booster line and 1 ea. 5,000 PSI Hyd. line. Riser nominal load rating 2,000,000 lbs. Choke and kill lines pin ends have colmonoy #5 on seal area. Choke and kill lines are made out of 4130 mechanical tubing, H₂S Service with 6-1/2" O.D. x 4-1/2" I.D.

*Booster line is A106 Grade B, H₂S Service w/ 5 3/4" O.D. x 4 3/4" I.D. Hyd. line is made out of

Duplex SS, H₂S Service 2.875' x .276" wall. Main tube 21.00" O.D. x 5/8" wall x 80 seamed to API 5L specifications.

One (1) 50', 40', 30', 20', 15' and 10' Riser Pup Joint.

Shaffer type "DT-2" Riser Slip Joint 55' stroke with one tension ring w/ 10 padeyes which Hyd. locks and unlocks from slip joint outer barrel.

Shaffer type "DT-2" Riser Fill-up Valve
Complete with Shaffer DT-2 pin x box.

All above complete with Floation - Riser running, test tools and Riser spider, Riser Angle Indicator - Metrox Dual Axis Inclometer.

MULTIPLEX SUBSEA CONTROL SYSTEM (9,000 ft)

Hydraulic Power unit is a 5,000 PSI system sized to meet the BOP Stack requirements. Pressure will be supplied by two (2) electrically driven Quintuplex pumps. Sixteen (16) 15 gallon bottles for the surface and fourteen (14) 15 gallon bottles mounted subsea.

Two (2) Subsea Control Pods
92 line subsea control pods consist of three sections; (1) is the subsea electronics assembly, (2) is Electro-Hyd. and (3) is hydraulic.

Two (2) Model MCR3-11,000' capacity air powered cable reels.

Two (2) 9,000' lengths of multiplex cable.

One (1) Control Cabinet with Panel. (Rig Floor).

DESCRIPTION

WELL CONTROL

One (1) Mini Control Panel. (Noble Rig Manager's office)

TV SYSTEM

Two (2) cameras located in the derrick and shaker area with remote monitor at driller's console.

CHOKE MANIFOLD

One (1) 15,000 PSI choke manifold - H₂S consisting of:

Two (2) 3-1/16" x 15M adjustable choke

Two (2) Shaffer hydraulic super choke with remote panel; 2-9/16" x 15,000 psi

MUD GAS SEPARATOR

- One (1) Shell Spec. 160 psi

DIVERTER

- Type KFDS, 60" standard bore housing w/ 2 hyd. operated hang-off Dogs. Four (4) Hyd. operated lock down Dogs. Assembly complete w/ one (1) 16" class 300 R.F. flanged outlet and One (1) 3" class 300 R.F. fill-up line outlet. The assembly will have a 59" bore w/ diverter assembly removed.
- Type KFDS, 500 PSI WP sits inside 59" standard bore housing - Item 1 unit is complete w/ (1) Diverter Spool with (2) independently pressure energized flowline seals, (1) main packer and (1) 10" Drilling Insert Packer. This assembly has a 23" I.D. with the 10" insert removed and terminates down with a +/- 15 degree. Type DR-1 ball joint with DR-1 flange by .625" Buttweld Prep.

DIVERTER VALVES

- Two (2) 14" diverter valves with double acting hydraulic actuators

BOP HANDLING

- One BOP handling system composed of a BOP carrier for transport and BOP set back for storage of the subsea BOP stack. The system permits one piece handling or split handling operations of the subsea BOP Unit, with BOP hydraulic torque wrench and sockets.

***With Operator requested upgrades**



United States Department of the Interior

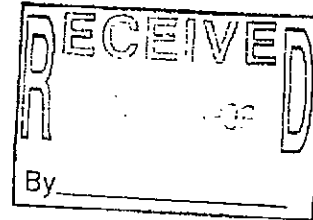
MINERALS MANAGEMENT SERVICE

Gulf of Mexico OCS Region
New Orleans District
990 N. Corporate Drive, Suite 100
New Orleans, Louisiana 70123-3392



In Reply Refer To: MS 5250

Mr. James W. Gormanson
Noble Drilling Services Inc.
10370 Richmond Avenue, Suite 400
Houston, Texas 77042



Dear Mr. Gormanson:

In accordance with the attached Letter to Lessees dated January 25, 1995, concerning designated safe welding and burning areas and the provisions of 30 CFR 250.402(c), enclosed are copies of the approved drawing (number 1469-113) outlining the designated safe welding and burning area for the Noble Amos Runner drilling rig. This drawing, signed and dated by the Minerals Management Service (MMS) District Supervisor, including the conditions of approval shall be maintained on the rig at all times while operating in the Outer Continental Shelf.

Further, the attached Diverter System Piping (drawing number 1469-643) is also approved for installation and operation on the Noble Amos Runner. This approval is granted based on our review of the aforementioned drawing and site inspection on June 3, 1999.

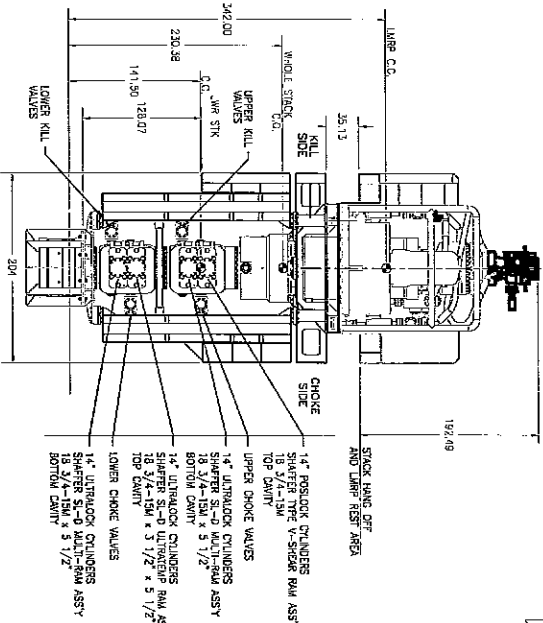
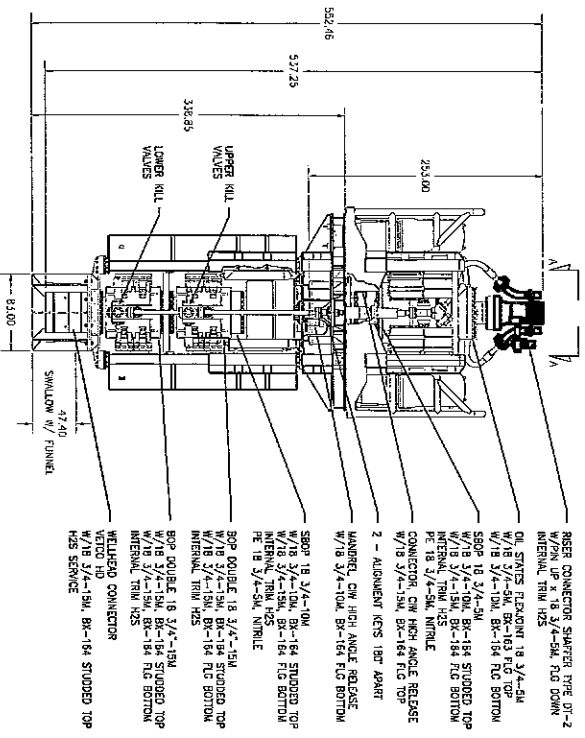
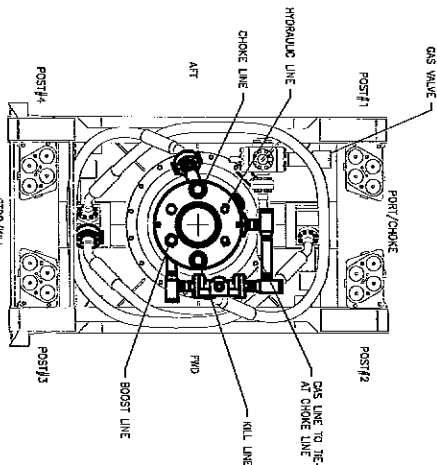
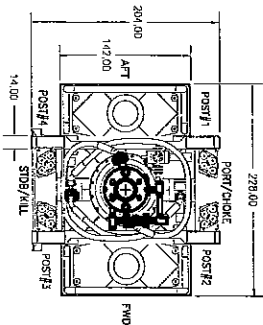
If you have any questions concerning this matter, please contact Mr. Lynard Carter at (504) 726-2854.

Sincerely,

A handwritten signature in cursive script that reads "Lars Herbst".

Lars Herbst
District Supervisor
New Orleans District

Enclosures



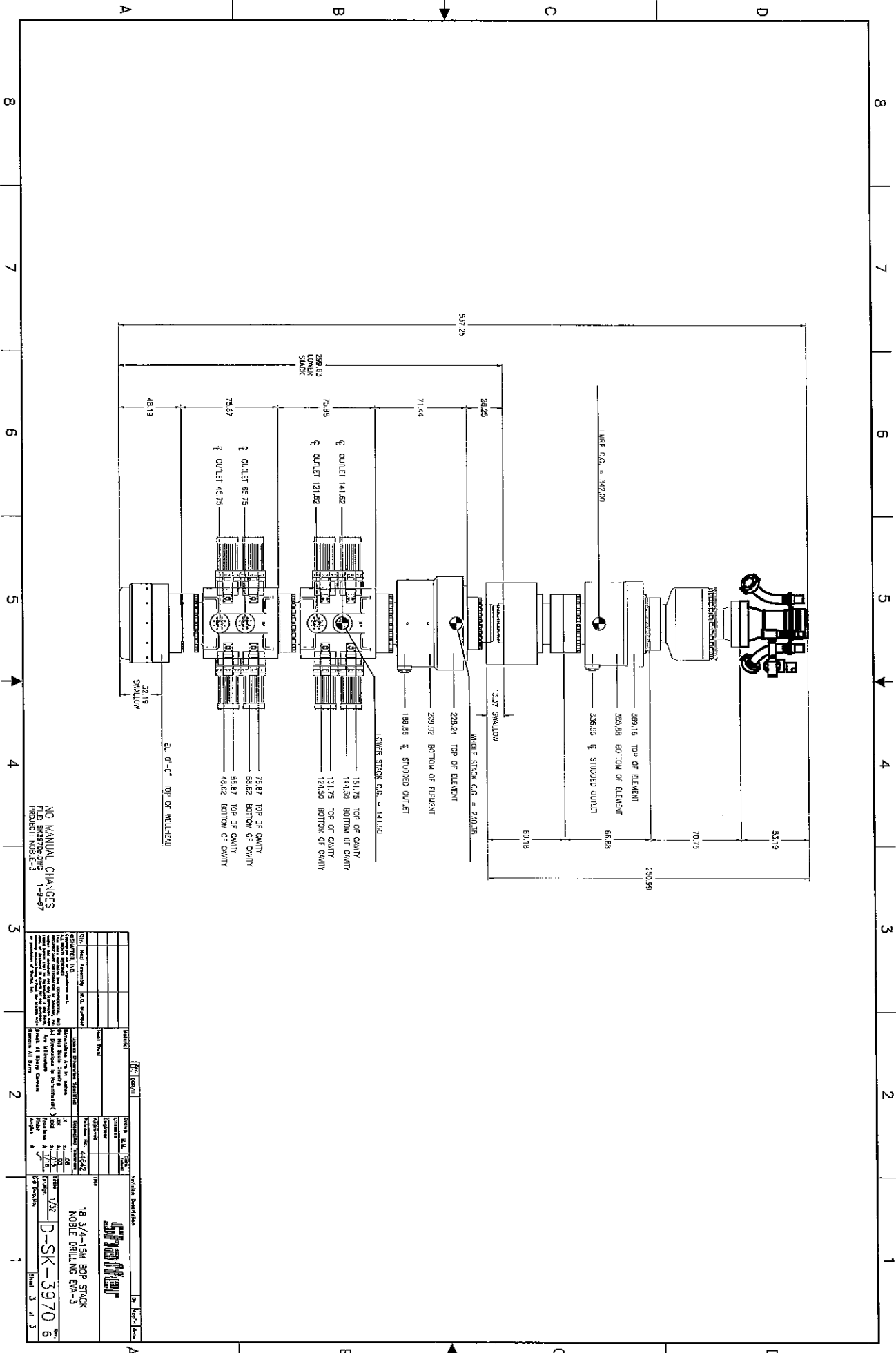
STBD SIDE LOOKING TO PORT

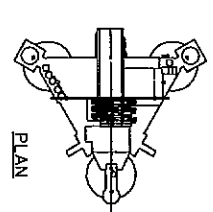
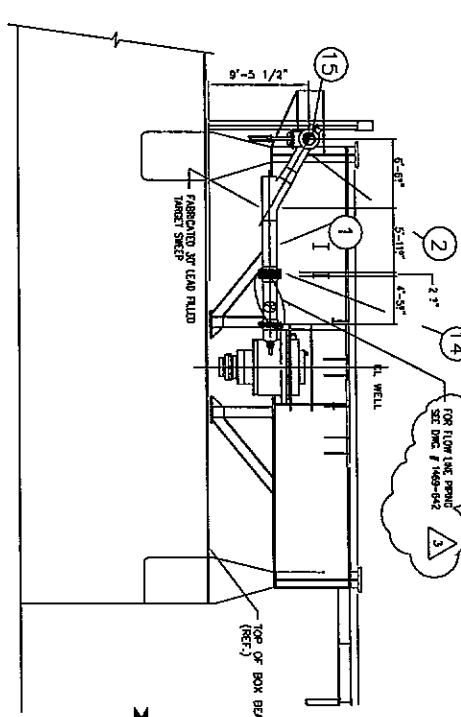
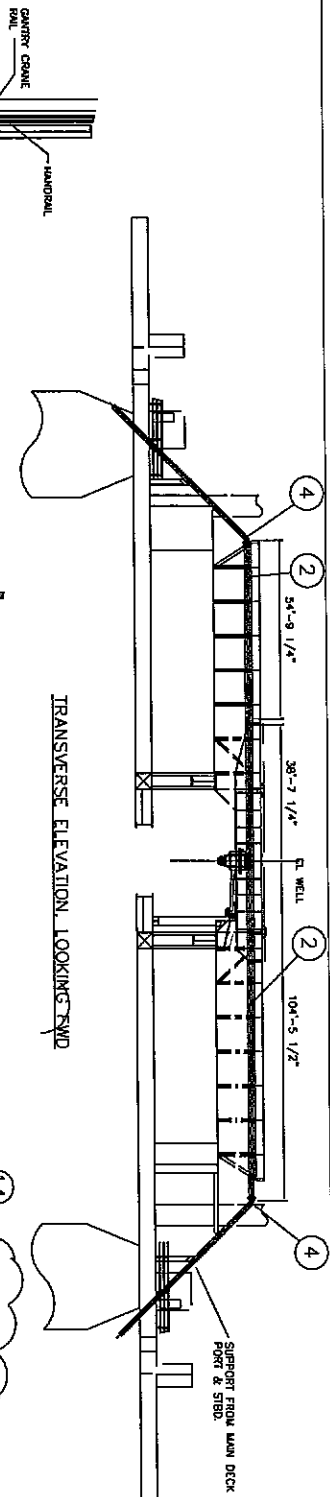
FWD END LOOKING AFT

NO MANUAL CHANGES
PROJECT NO. 18-SK-3970-6

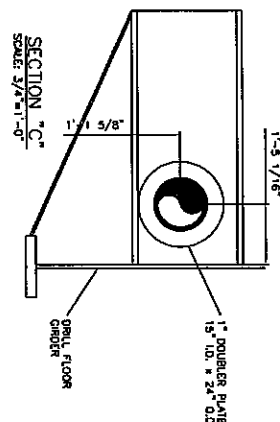
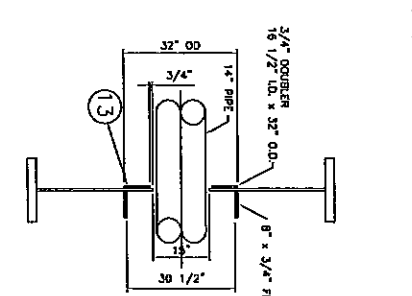
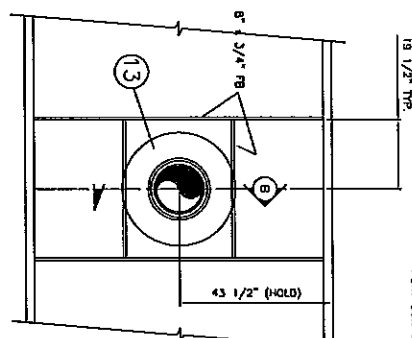
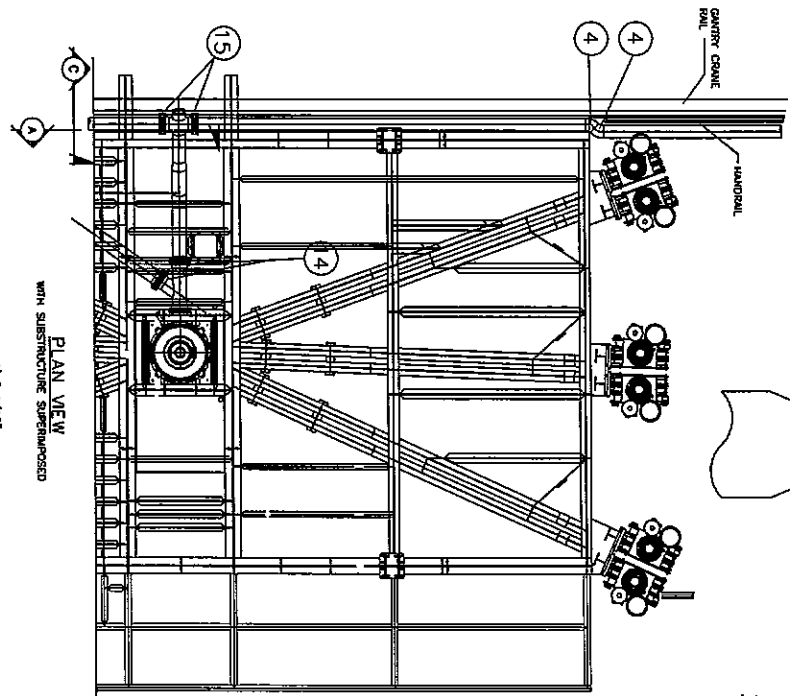
GENERAL INFORMATION		REVISIONS		DATE	
PROJECT NO.	18-SK-3970-6	REVISION	1	DATE	10/1/88
PROJECT NAME	18 3/4-15M BOP STACK NOBLE DRILLING SW-3	REVISION	2	DATE	10/1/88
PROJECT LOCATION	NOBLE DRILLING SW-3	REVISION	3	DATE	10/1/88
PROJECT STATUS	18 3/4-15M BOP STACK NOBLE DRILLING SW-3	REVISION	4	DATE	10/1/88
PROJECT TYPE	18 3/4-15M BOP STACK NOBLE DRILLING SW-3	REVISION	5	DATE	10/1/88
PROJECT DESCRIPTION	18 3/4-15M BOP STACK NOBLE DRILLING SW-3	REVISION	6	DATE	10/1/88
PROJECT DRAWING	18 3/4-15M BOP STACK NOBLE DRILLING SW-3	REVISION	7	DATE	10/1/88
PROJECT SCALE	18 3/4-15M BOP STACK NOBLE DRILLING SW-3	REVISION	8	DATE	10/1/88
PROJECT SHEET	18 3/4-15M BOP STACK NOBLE DRILLING SW-3	REVISION	9	DATE	10/1/88
PROJECT TOTAL	18 3/4-15M BOP STACK NOBLE DRILLING SW-3	REVISION	10	DATE	10/1/88

[illegible]





ITEM QTY	DESCRIPTION	UNIT
1	8" PIPE 16' X5, ASTM A-53, BLACK	LB
2	2" PIPE 14' X5, ASTM A-53, BLACK	LB
3	ELBOW 16' X5, ASTM A-53, BLACK	LB
4	ELBOW 14' X5, ASTM A-53, BLACK	LB
5	FLANGE 16' X5, ASTM A-53, BLACK	LB
6	FLANGE 14' X5, ASTM A-53, BLACK	LB
7	FLANGE 12' X5, ASTM A-53, BLACK	LB
8	FLANGE 10' X5, ASTM A-53, BLACK	LB
9	FLANGE 8' X5, ASTM A-53, BLACK	LB
10	FLANGE 6' X5, ASTM A-53, BLACK	LB
11	FLANGE 4' X5, ASTM A-53, BLACK	LB
12	FLANGE 3' X5, ASTM A-53, BLACK	LB
13	FLANGE 2' X5, ASTM A-53, BLACK	LB
14	FLANGE 1' X5, ASTM A-53, BLACK	LB
15	FLANGE 1/2' X5, ASTM A-53, BLACK	LB

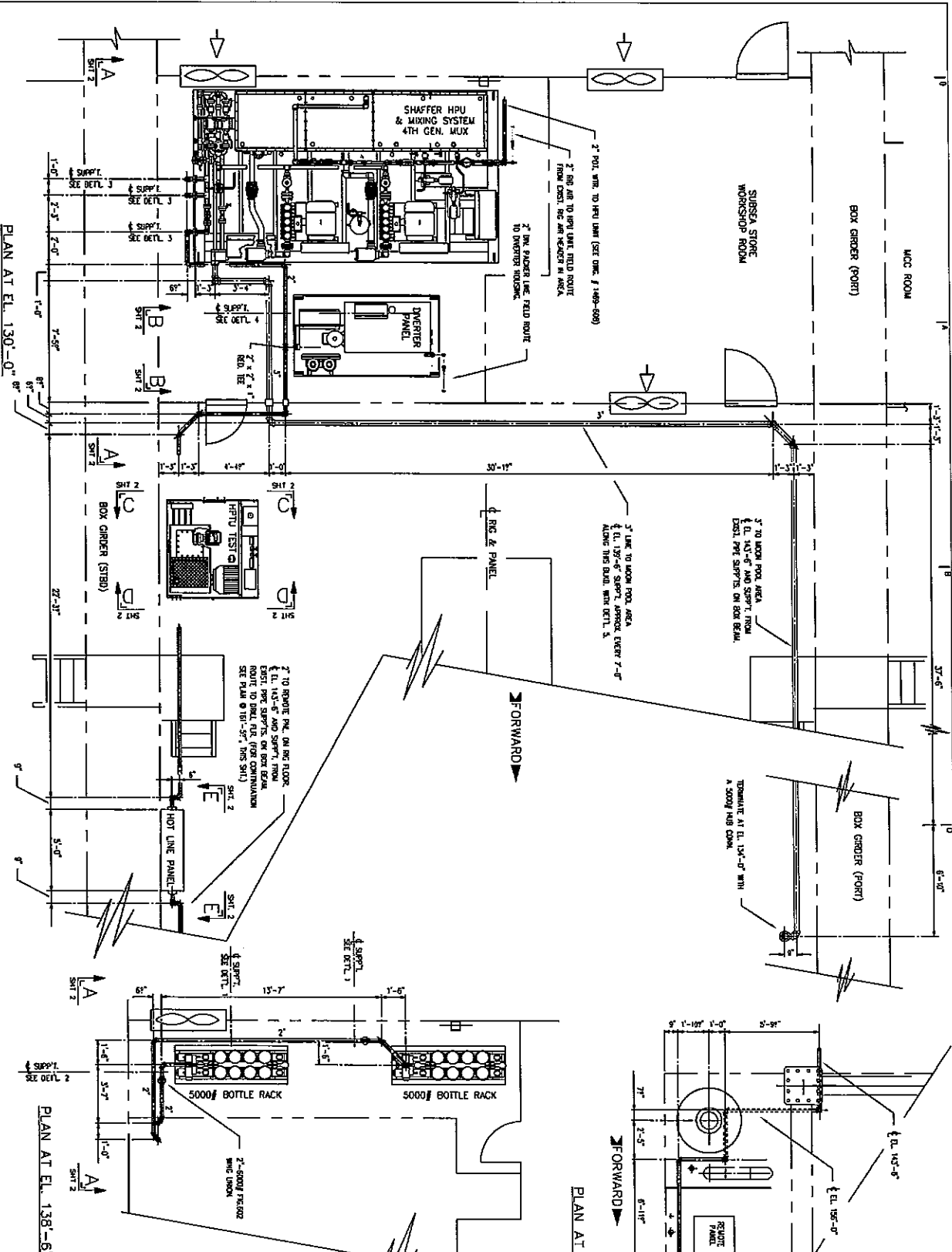


ITEM QTY	DESCRIPTION	UNIT
1	8" PIPE 16' X5, ASTM A-53, BLACK	LB
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3	ELBOW 16' X5, ASTM A-53, BLACK	LB
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NOBLE DRILLING CORPORATION
HOUSTON, TEXAS U.S.A.

NOBLE
DIVERTER SYSTEM
PIPING ARRANGEMENT

SCALE: 3/16"=1'-0" REV. 3 NO NOBLE AAMS RUNNER
ISSUED NO. 1469-643 SHEET 1 OF 1

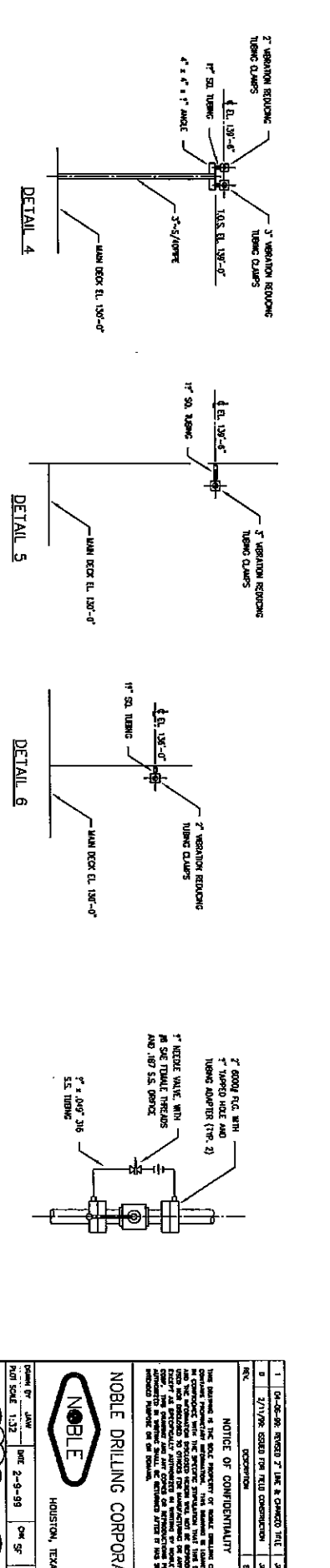
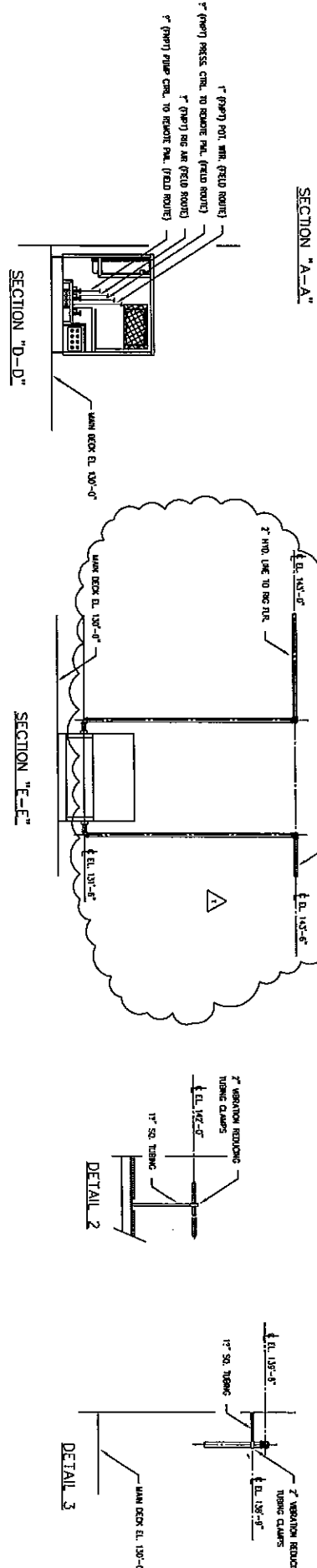
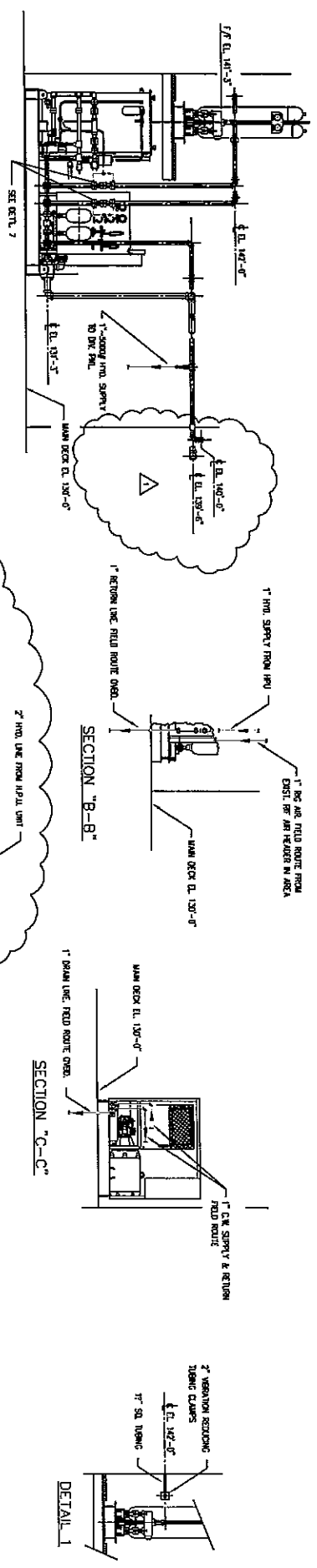


NOBLE DRILLING CORPORATION HOUSTON, TEXAS U.S.A.			
PIPING ARRANGEMENT B.O.P./DIVERTER HPU SYSTEM			
SHEET 1 OF 3 1469-606	SHEET 1 OF 3 1469-606	SHEET 1 OF 3 1469-606	SHEET 1 OF 3 1469-606

NOTICE OF CONFIDENTIALITY

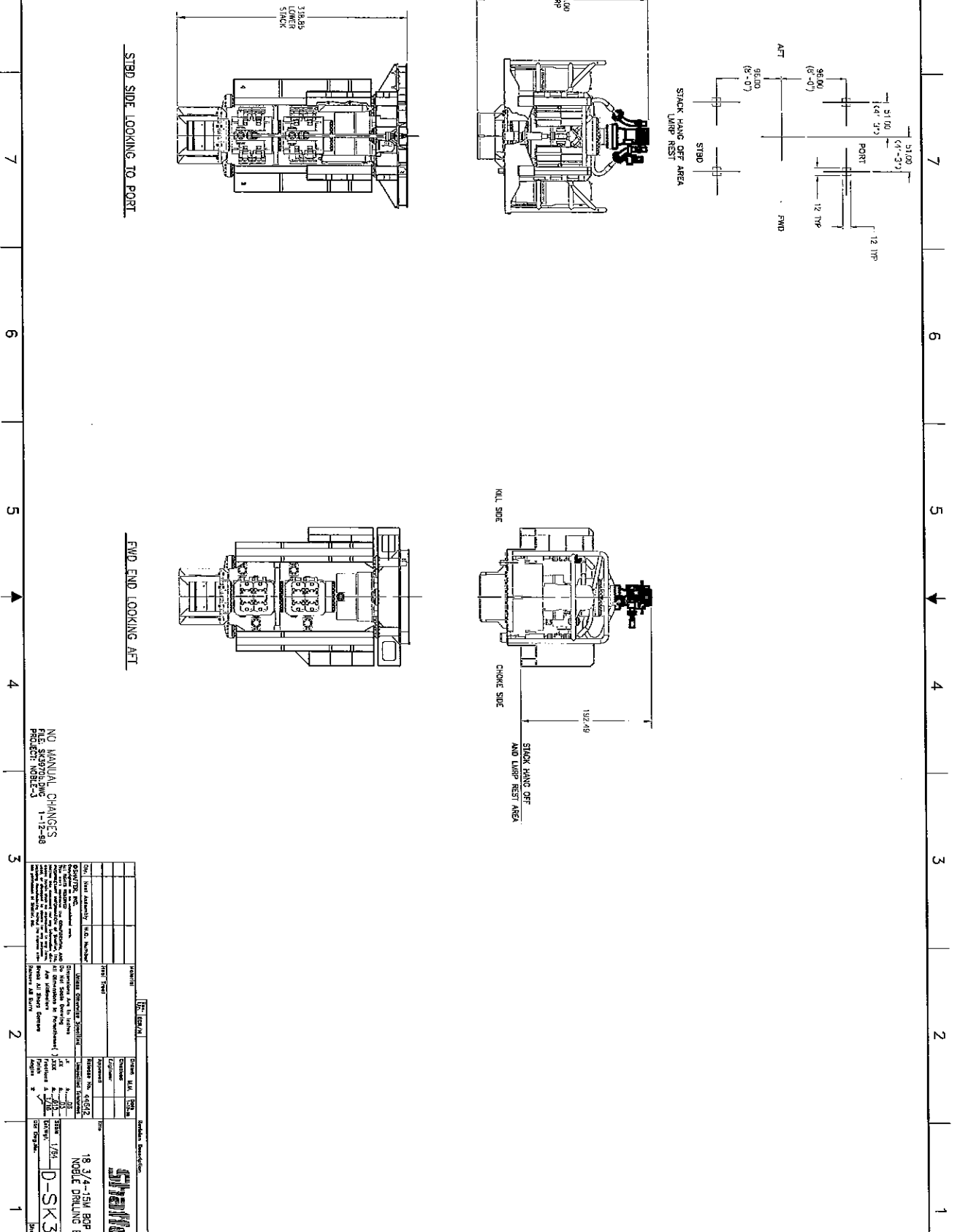
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REV.	DESCRIPTION	DATE	BY
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2	05-07-95: SIZED FOR FIELD CONSTRUCTION	JUN 1995	JAT

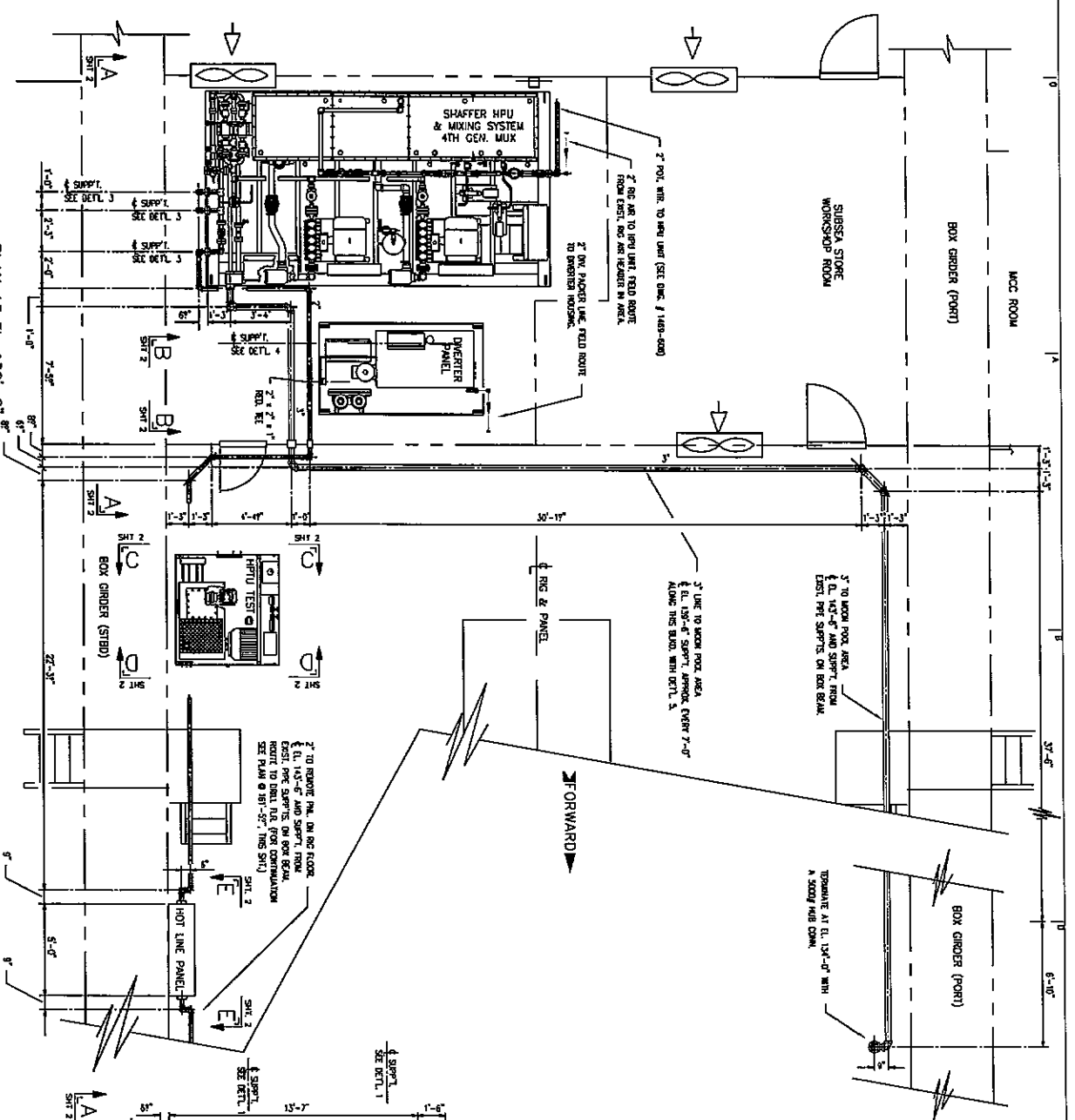


1	04-06-06	REVISED 2\"/>
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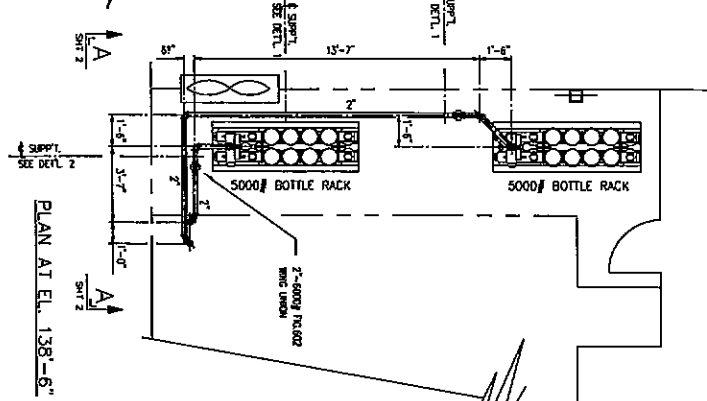
NOBLE DRILLING CORPORATION
HOUSTON, TEXAS U.S.A.



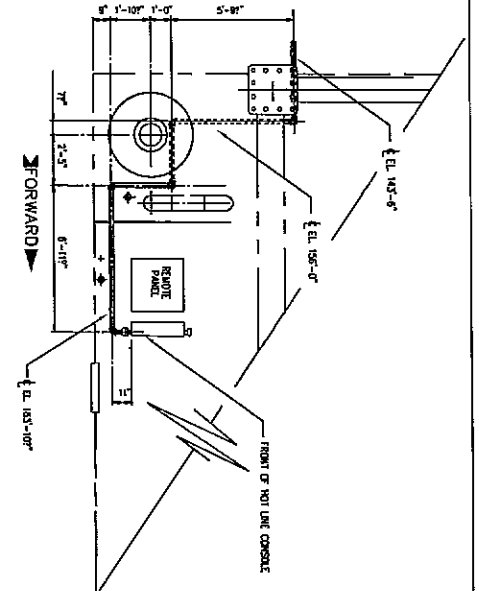
PLAN AT EL. 130'-0"



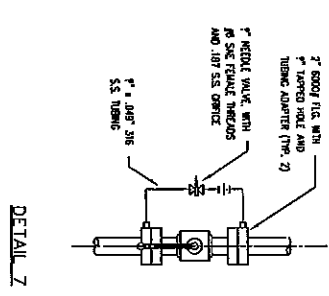
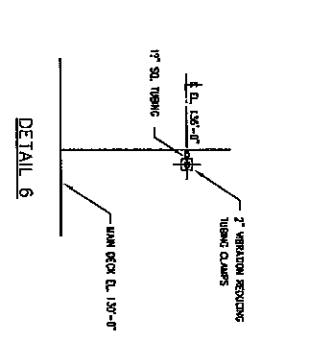
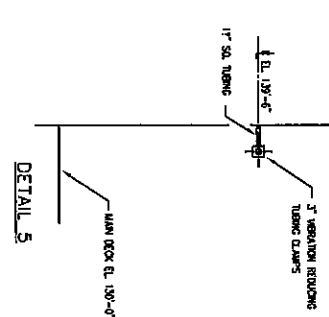
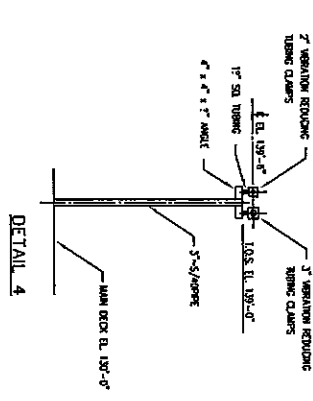
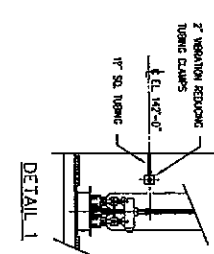
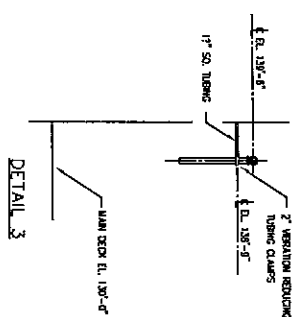
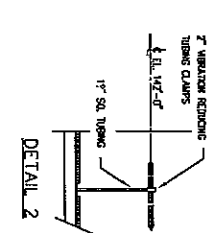
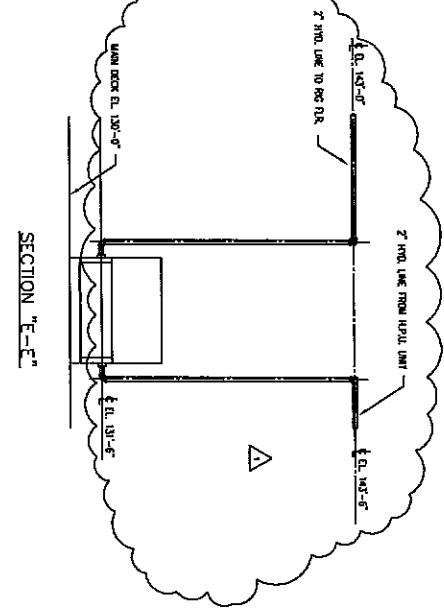
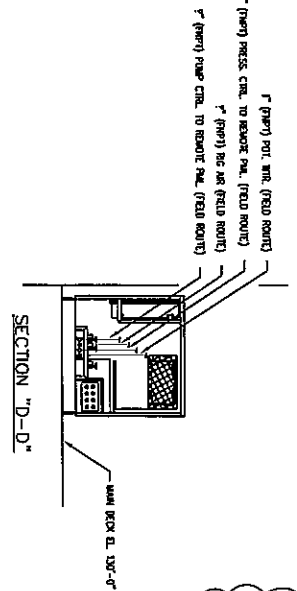
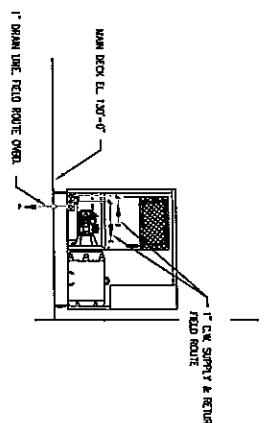
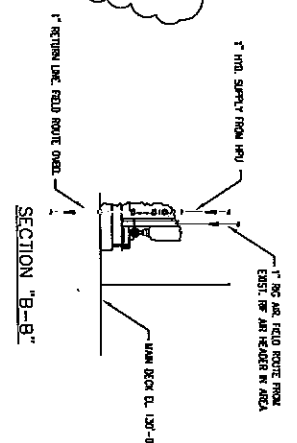
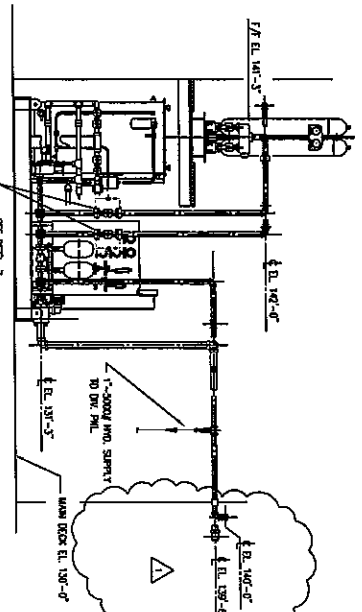
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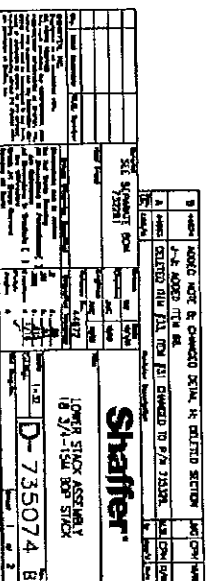
PLAN AT EL. 161'-5 1/4"



<p>NOBLE DRILLING CORPORATION</p> <p>HOUSTON, TEXAS U.S.A.</p>	
<p>DATE: 1-19-99</p> <p>BY: JAW</p> <p>CHK: JAW</p>	<p>SCALE: 1/8" = 1'</p> <p>REV: 1</p> <p>NO. 1469-605</p>
<p>NOTICE OF CONFIDENTIALITY</p> <p>This drawing is the property of Noble Drilling Corporation and is confidential. It is to be used only for the purpose for which it was prepared and is not to be distributed outside the company without the written consent of Noble Drilling Corporation. It is to be destroyed when it is no longer needed for the purpose for which it was prepared.</p>	

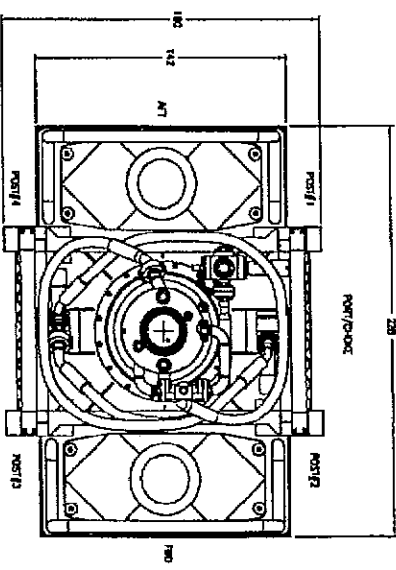
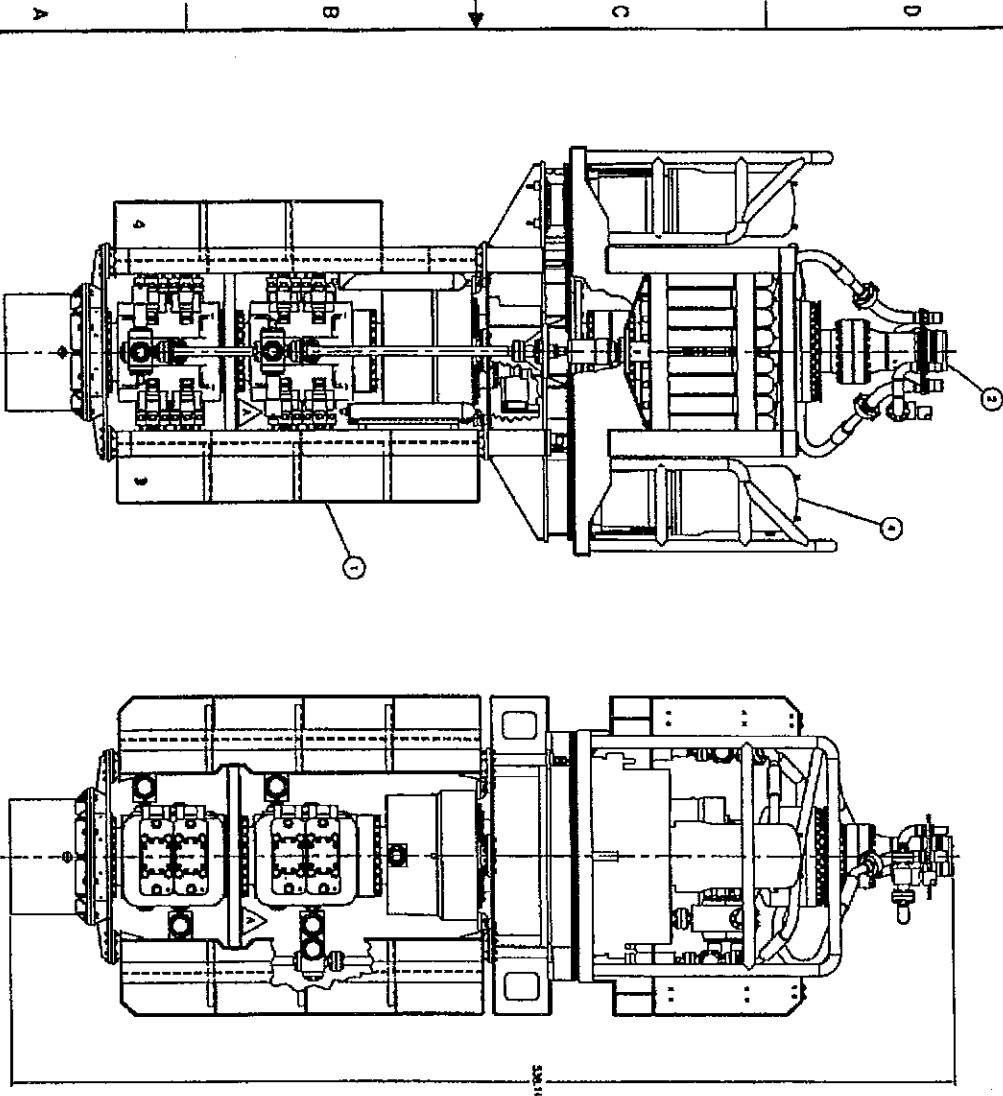


1	30-05-08	REVISED 2" LINE & CHANGED TITLE	JAN	197
2	2/1/79	REVISED FOR FIELD CONSTRUCTION	JAN	197
REV.	DESCRIPTION	BY	DATE	
NOTICE OF CONFIDENTIALITY				
THIS DRAWING IS THE SOLE PROPERTY OF NOBLE DRILLING CORP. AND IS TO BE USED ONLY FOR THE PROJECT SPECIFICALLY IDENTIFIED HEREON. IT IS TO BE KEPT IN CONFIDENCE WITH THE PROJECT SPECIFICATION THAT THIS DOCUMENT IS TO BE USED FOR. NOBLE DRILLING CORP. WILL NOT BE RESPONSIBLE FOR ANY REPRODUCTION OR MODIFICATION OF THIS DRAWING OR ANY INFORMATION CONTAINED HEREIN. ANY REPRODUCTION OR MODIFICATION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF NOBLE DRILLING CORP. IS PROHIBITED. ANY REPRODUCTION OR MODIFICATION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF NOBLE DRILLING CORP. IS PROHIBITED.				
NOBLE DRILLING CORPORATION				
HOUSTON, TEXAS U.S.A.				
TITLE: PIPING ARRANGEMENT				
SUBJECT: B.O.P./DIVERTER HPU SYSTEM				
SCALE: 3/8" = 1' (SEE 1) FOR NOBLE ADAPTER FLANGES				
DRAWING NO. 1469-606				
SHEET 2 OF 3				



Shaffer





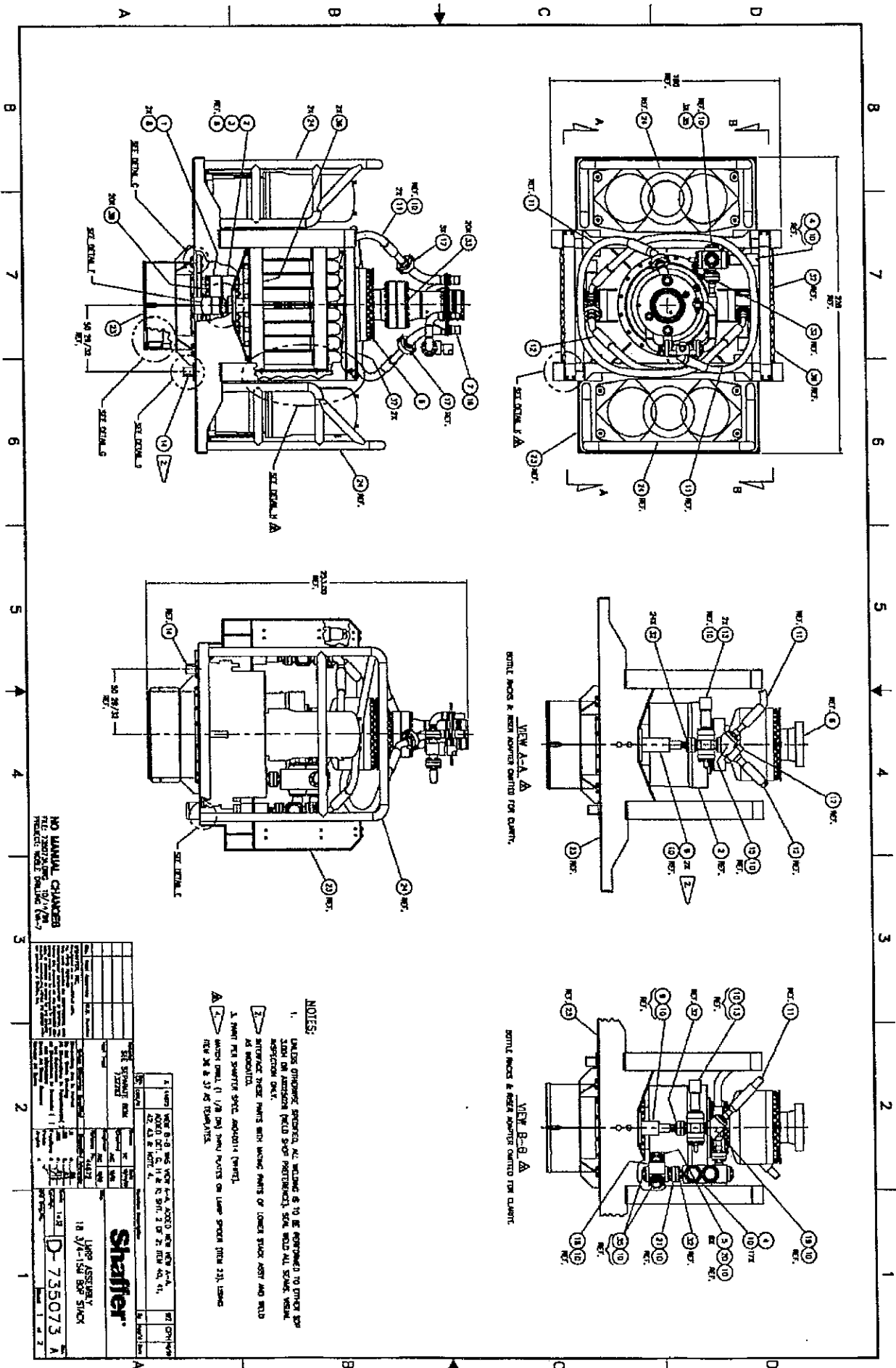
NO MANUAL CHANGES
P.D. 12/20/00 (REV. 1/01/01)
P.D. 12/20/00 (REV. 1/01/01)

REVISIONS		DATE		BY		CHK	
1	INITIALS	DATE	BY	CHK	DATE	BY	CHK
1	INITIALS	DATE	BY	CHK	DATE	BY	CHK
2	INITIALS	DATE	BY	CHK	DATE	BY	CHK
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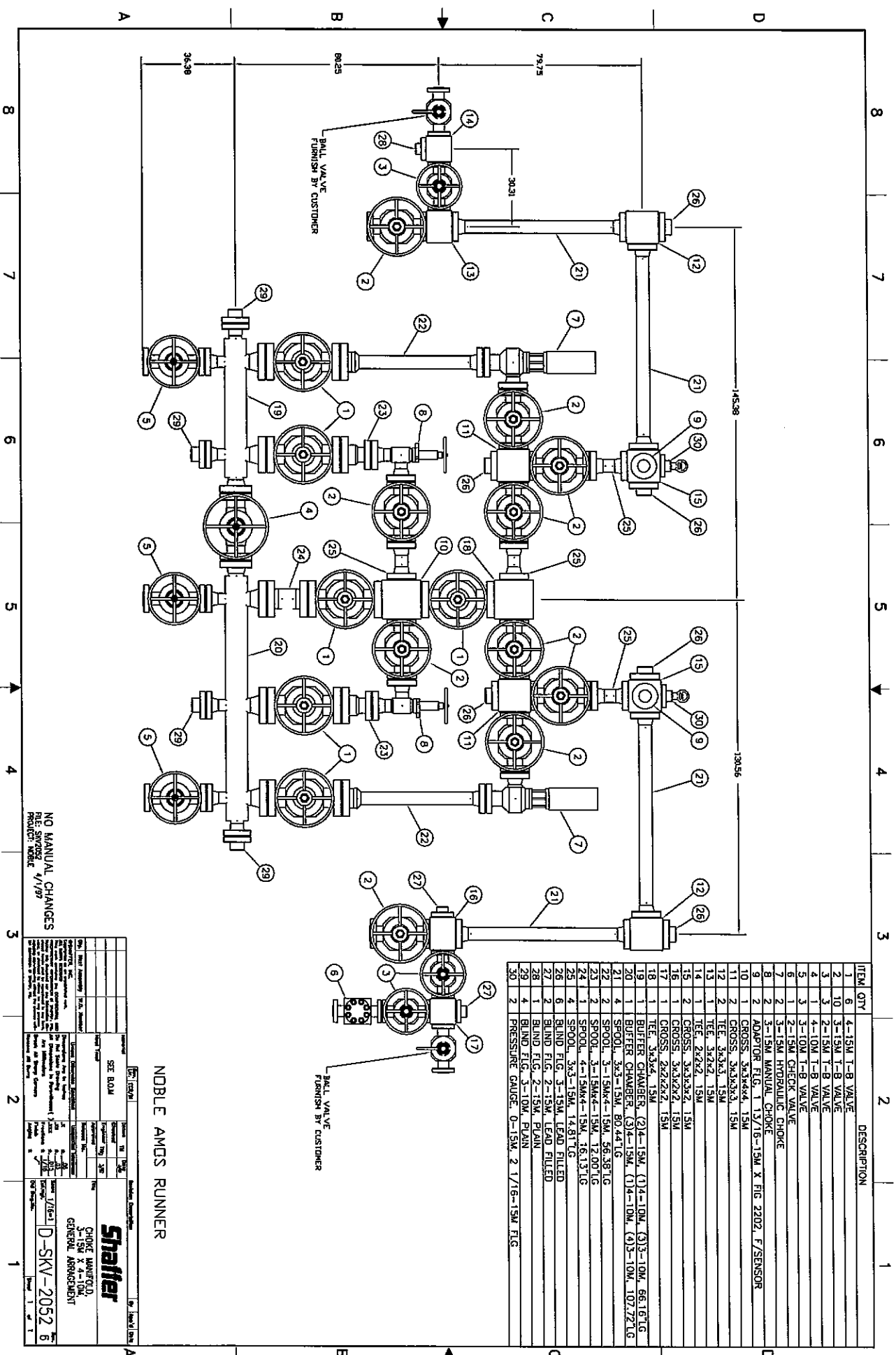
Shafter

STACK ASST, TOR, 18-194

D-732285 B







ITEM	QTY	DESCRIPTION
1	6	4-15M T-B VALVE
2	10	3-15M T-B VALVE
3	3	2-15M T-B VALVE
4	1	4-10M T-B VALVE
5	3	3-10M T-B VALVE
6	2	2-15M CHECK VALVE
7	2	3-15M HYDRAULIC CHOKE
8	2	3-15M MANUAL CHOKE
9	2	ADAPTOR FIG. 1 13/16-15M X FIG. 2202 F/SENSOR
10	1	CROSS, 3/4x3/4x2, 15M
11	2	TE, 3/4x3/4, 15M
12	2	TE, 3/4x2x2, 15M
13	1	TE, 2x2x2, 15M
14	1	TE, 2x2x2, 15M
15	2	CROSS, 3/4x3/4x2, 15M
16	1	CROSS, 3/4x3/4x2, 15M
17	1	TE, 3/4x3/4, 15M
18	1	TE, 3/4x3/4, 15M
19	1	TE, 3/4x3/4, 15M
20	1	TE, 3/4x3/4, 15M
21	4	SPPOOL, 3-15M, 80.44T.G
22	2	SPPOOL, 3-15M, 56.38T.G
23	2	SPPOOL, 3-15M, 12.00T.G
24	1	SPPOOL, 4-15M, 16.13T.G
25	4	SPPOOL, 3-3-15M, 14.81T.G
26	6	BLIND FLG, 3-15M, LEAD FILED
27	2	BLIND FLG, 2-15M, LEAD FILED
28	1	BLIND FLG, 2-15M, LEAD FILED
29	4	BLIND FLG, 3-10M, LEAD FILED
30	2	PRESSURE GAUGE, 0-15M, 2 1/16-15M FIG.

NOBLE AMOS RUNNER

Shafter

CHOKE MANIFOLD,
3-15M X 4-10M
GENERAL ARRANGEMENT

NO MANUAL CHANGES
REV. 4/1/89
PROJECT NO. 2052

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