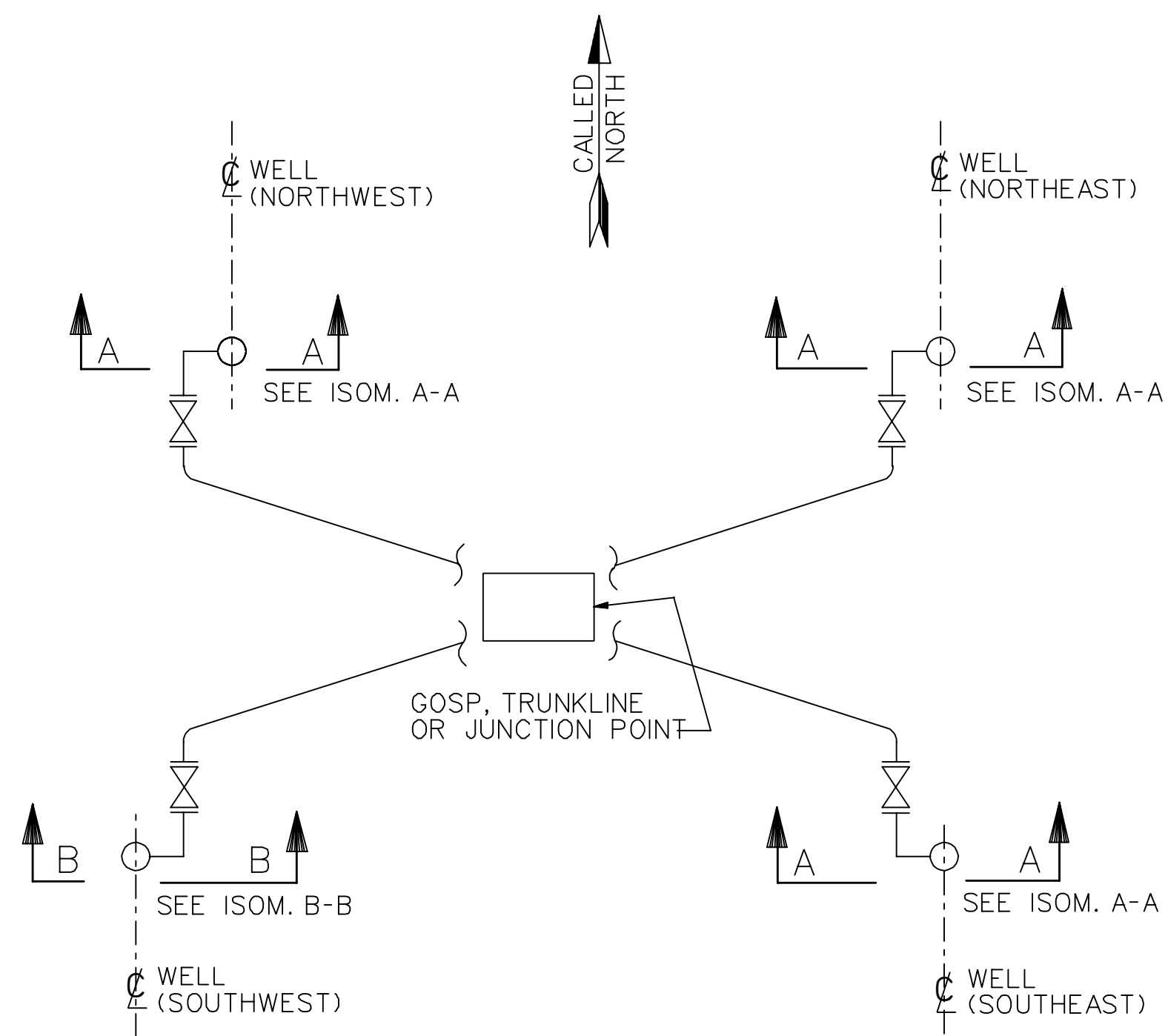
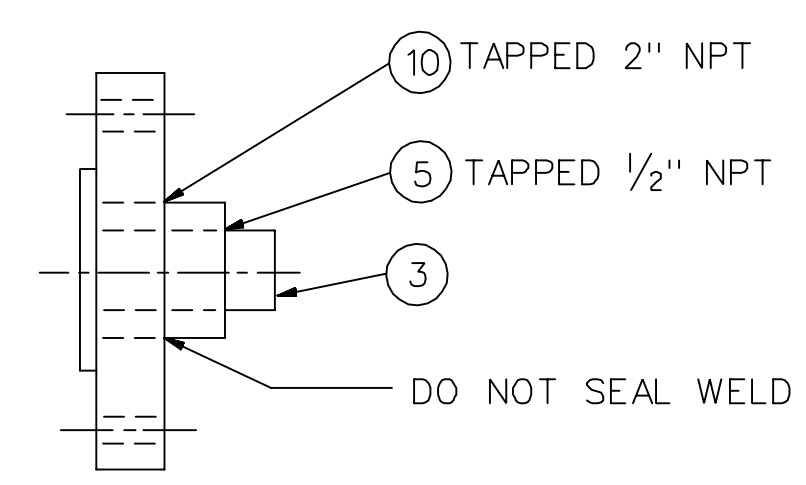


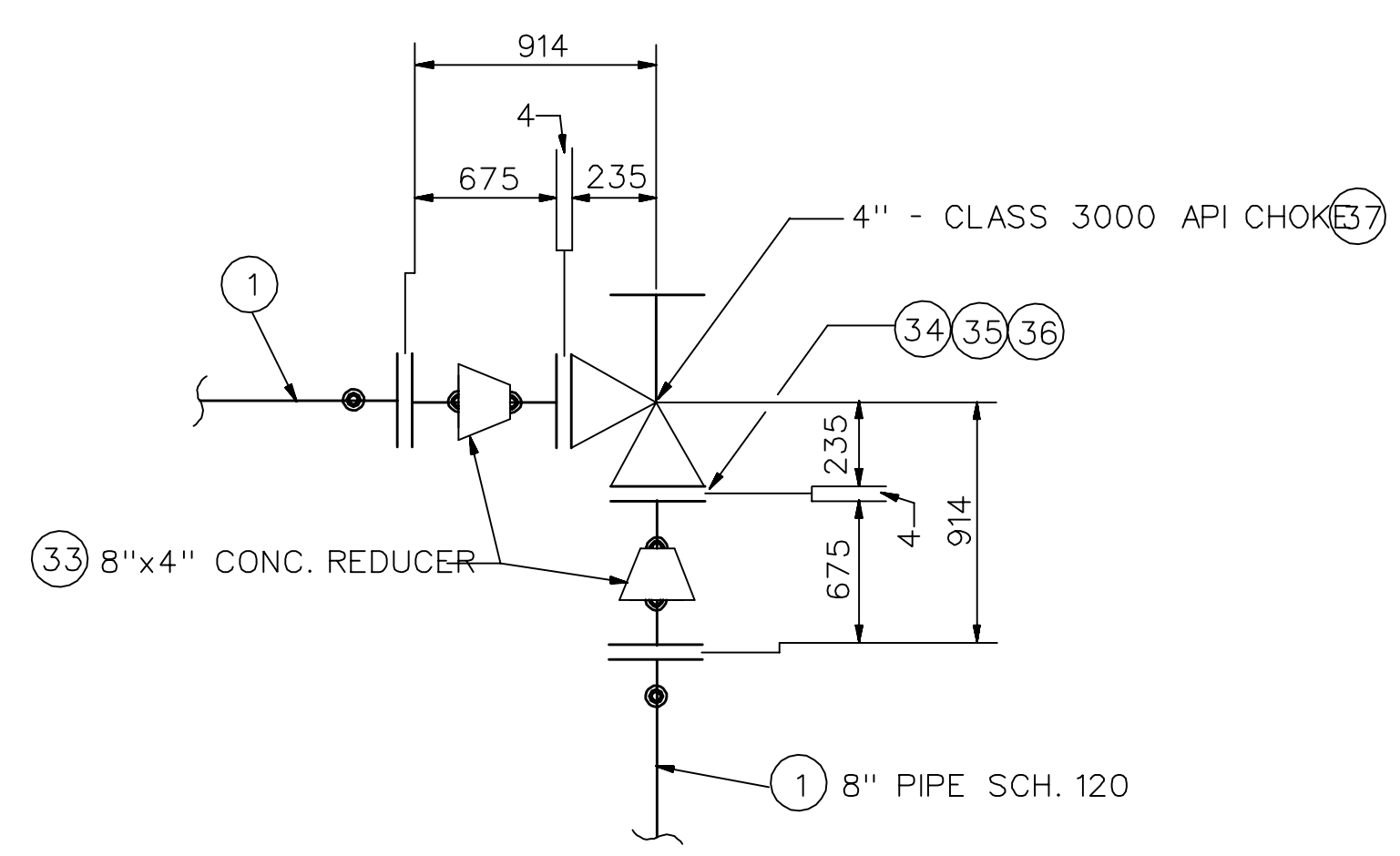
990	PLANT NO.	INDEX	DRAWING NUMBER	SHT. NO.	REV. NO.
08	001	AA-036529			



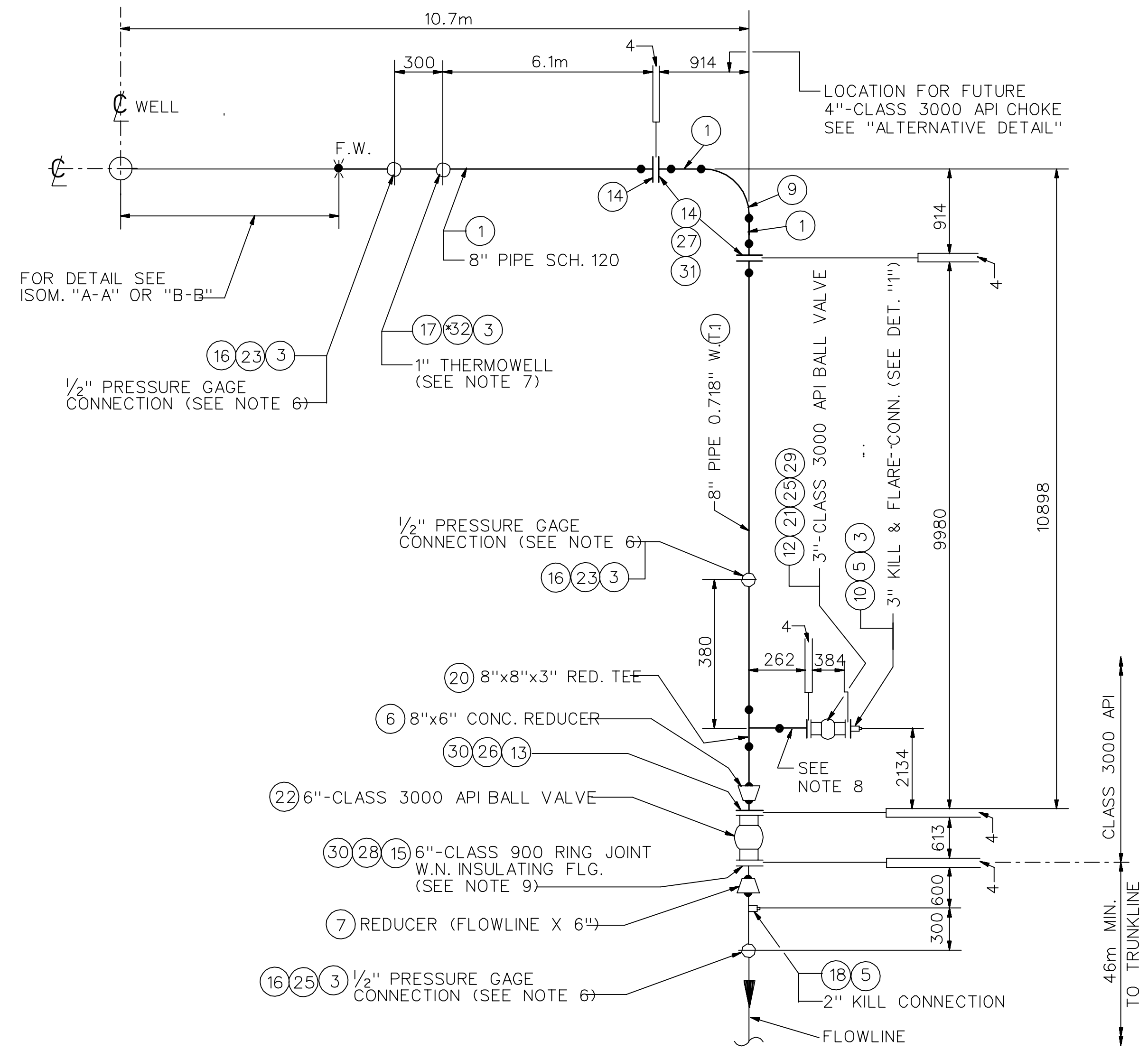
SCHEMATIC ORIENTATION OF
WELL HEAD PIPING
(SEE NOTE 4)



DETAIL 1



"ALTERNATIVE DETAIL"
(FOR FUTURE 4"-CLASS 3000 API CHOKE)



PLAN
TYPICAL WELL HEAD PIPING

LIST OF MATERIAL (FOR ONE WELL HEAD PIPING INSTALLATION ONLY)				
DWG. CODE	STOCK NO.	QTY.	ISSUE UNIT	DESCRIPTION
1	01-167-665	70	FT	PIPE: STL: API 5-L; GR. B: 8" x 0.718" W.T.
2	01-167-158	7	FT	PIPE: STL: API 5L; GR. B: 2" x 0.344" W.T.
3	02-120-458	5	EA	PLUG: PIPE, BAR STOCK, C.S., 1/2"
5	02-120-464	2	EA	PLUG: PIPE, BAR STOCK, C.S., 2"
6	02-221-437	2	EA	REDUCER: B.W., C.S., CONC. 8" (0.718" W.T.) x 6" (0.562" W.T.)
7	02-221-XXX	1	EA	REDUCER: B.W., C.S., (FLOWLINE x 6")
8	02-277-723	1	EA	ELBOW: B.W.; C.S., 90° L.R.; 2" x 343" W.T.
9	02-277-744	1	EA	ELBOW: B.W.; C.S., 90° L.R.; 8" x 0.718" W.T.
10	02-375-414	1	EA	FLANGE: BLIND, F.S., R.J., CLASS 3000 API, 3"; TAPPED 1/2"
11	02-393-590	3	EA	FLANGE: W.N, F.S., R.J., CLASS 3000 API, 2" x 0.343" W.T.
12	02-393-598	1	EA	FLANGE: W.N, F.S., R.J., CLASS 3000 API, 3" x 0.300" W.T.
13	02-393-630	2	EA	FLANGE: W.N, F.S., R.J., CLASS 3000 API, 6" x 0.562" W.T.
14	02-393-637	4	EA	FLANGE: W.N, F.S., R.J., CLASS 3000 API, 8" x 0.718" W.T.
15	02-396-122	1	EA	FLANGE: W.N, F.S., R.J., CLASS 900: 6" x 0.280" W.T.
16	02-455-398	3	EA	BOSS: WELDING, C.S., 1/2"
17	02-455-408	1	EA	BOSS: WELDING, C.S., 1"
18	02-455-422	1	EA	BOSS: WELDING, C.S., 2"
19	D.C.	1	EA	TEE: BW, RD: 8"x8"x2" (8" x 0.718" W.T., 2" x 0.343" W.T.)
20	02-605-570	1	EA	TEE: BW, RD: 8"x8"x3" (8" x 0.718" W.T., 3" x 0.300" W.T.)
21	04-604-823	1	EA	VALVE: BALL, FLANGED, R.J., CLASS 3000 API, 3"
22	04-604-856	1	EA	VALVE: BALL, FLANGED, R.J., CLASS 3000 API, 6"
23	04-796-621	5	EA	VALVE: GAGE, SHUT-OFF, F.S., CLASS 10,000 45°, 1/2"
24	06-142-710	2	EA	GASKET: R.J., CLASS 3000 API, 2"
25	06-142-717	2	EA	GASKET: R.J., CLASS 3000 API, 3"
26	06-142-730	2	EA	GASKET: R.J., CLASS 3000 API, 6"
27	06-142-737	2	EA	GASKET: R.J., CLASS 3000 API, 8"
28	06-257-330	1	ST	INSULATING SET: FLANGE: R.J.; CLASS 900: 6"
29	10-354-550	32	EA	BOLTS: STUD, STL, W/NUTS, 7/8" DIA. x 6" LG. FOR 3" & 2"
30	10-355-700	36	EA	BOLTS: STUD, STL, W/NUTS, 1 1/8" DIA. x 8" LG. FOR 6" FLGS
31	10-355-875	24	EA	BOLTS: STUD, STL, W/NUTS, 1 3/8" DIA. x 8" LG. FOR 8" FLGS
32	34-465-561	1	EA	THERMOWELL, SST, 1" MALE, 1/2" FEMALE: 8" OVERALL LG.

MATERIAL FOR ALTERNATIVE DETAIL					
33	02-221-406	2	EA	REDUCER: B.W.F. x C.S.; CONC. 8" x 4", DOUBLE EXTRA STRONG	
34	02-393-611	2	EA	FLANGE: W.N.F. x S.; R.J.; CLASS 3000 API, 4"	
35	06-142-724	2	EA	GASKET: R.J.; CLASS 3000 API, 4"	
36	10-355-688	16	EA	BOLTS: STUD, STL, W.NUTS, 1 1/8" DIA. x 7" LG. FOR 4" FLS	
37	45-XXX-XXX	1	EA	BEAN: FLOW ADJUSTABLE; R.J., 4"-CLASS 3000 API, 3" ORIF	

1. FOR REMOTE CONTROL INSTALLATION AND MATERIAL TAKE-OFF SEE DRAWING AA-036454.
2. BLIND FLANGES ON OFF-SIDE OF TREE EQUIPPED WITH 1/2" PIPE PLUGS. REINSTALL PLUGS IN GAGE SHUT-OFF VALVES AFTER THESE ARE INSTALLED IN BLIND FLANGES.
3. IN FLOWLINE-TRUNKLINE SYSTEM INSTALL WELL HEAD MANIFOLD AT A MAXIMUM DISTANCE OF 46m FROM JUNCTION POINT OF THE TRUNKLINE.
4. ALL WELLHEAD AND CHRISTMAS TREE VALVE HANDWHEELS AND OPERATORS ARE TO FACE NORTHWARD.
5. FLANGES 6 AND 8 INCHES SIZE SHALL BE PRE-HEATED TO 121° C (250° F) BEFORE WELDING TO PIPE.
6. SEAL-WELD GAUGE SHUT-OFF VALVES, 2 PASSES WITH 3mm E7018 WELDING ELECTRODE.
7. INSTALL THERMOWELL IN ACCORDANCE WITH STD. DWG. AB-036019.
8. GRIND INSIDE WELD OF MATING FLANGE OF 3 INCH BRANCH OF KILL CONNECTION.
9. IF FLOWLINE IS BURIED, BONDING STATION PER STD. DWG. AB-036674 IS REQUIRED ACROSS INSULATING FLANGE.
10. PAINT PIPING PER AES-H-1, APCS 4.
11. HYDROTEST PER AES-A-4. REMOVE ⁽²²⁾ 6" BALL VALVE AND INSTALL BLIND FLANGES AT BOTH ENDS OF WELL HEAD PIPING. TEST AT 35.8 Mpa (GA.) (5200 PSIG), TWO HOURS FOR COMBINED STRENGTH AND TIGHTNESS. TEST LIMITED BY 8" PIPE.
12. ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.

LEGEND:

	INSTALLATION BY CONSTRUCTION
	INSTALLATION BY PRODUCING
	GATE VALVE WITHOUT REMOTE CONTROL
	BALL VALVE

REFERENCE DRAWINGS	
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ASSEMBLY AND DETAIL OF THERMOWELL	AB-036019
REMOTE CONTROLS FOR ON-SHORE WELL	SAA-036454

TYPICAL INSTALLATION DRAWING

SPECIAL NOTE:
THIS DRAWING FOR REFERENCE
ONLY. USE TYP. INSTALL. DRAWING
AA-036565 FOR CONSTRUCTION

08	09-22-86	RLO	REVISED AND ADDED CLASS TO RATINGS IN MATERIAL LIST.			
07	03-26-85	MNL	COMPLETELY REDRAWN.	NJF		
REV. NO.	DATE	BY	DESCRIPTION	CHKD	CERT.	APPD.

FOR ARABIAN AMERICAN OIL COMPANY

DRAWN BY N.J. FERNANDEZ CHECKED BY G.M. 1/73 SCALE: NONE

DATE STARTED _____ DATE COMPLETED 01-23-73
OPR'G. DEPT. _____ ENG. DEPT. _____

THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION OR FOR ORDERING MATERIAL UNTIL CERTIFIED AND DATED	CERTIFIED DATE
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MATERIAL UNTIL CERTIFIED AND DATED	DATE
6 x 2 SINGLE WELL COMPLETION	
WELLHEAD PIPING	

WELLHEAD FIRING	
FOR ONSHORE WELLS	
SEP. DAYS	METRIC

STD. DWG.			METRIC	
PLANT NO.	INDEX	DRAWING NUMBER	SHT. NO.	REV. NO.
990	L	AA-036529	001	08