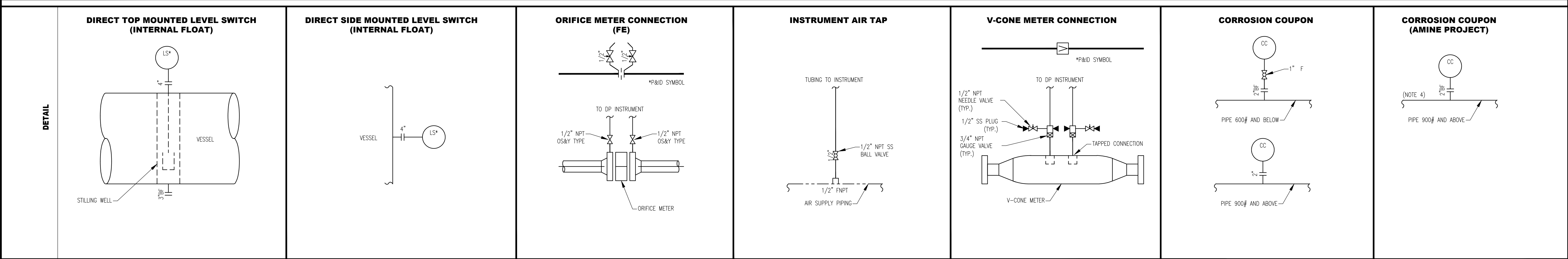
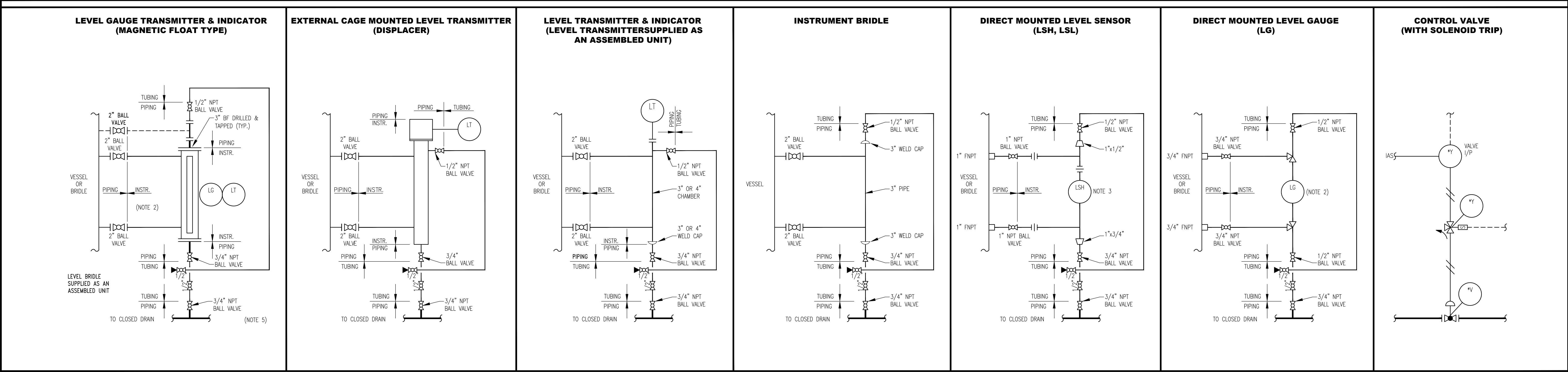
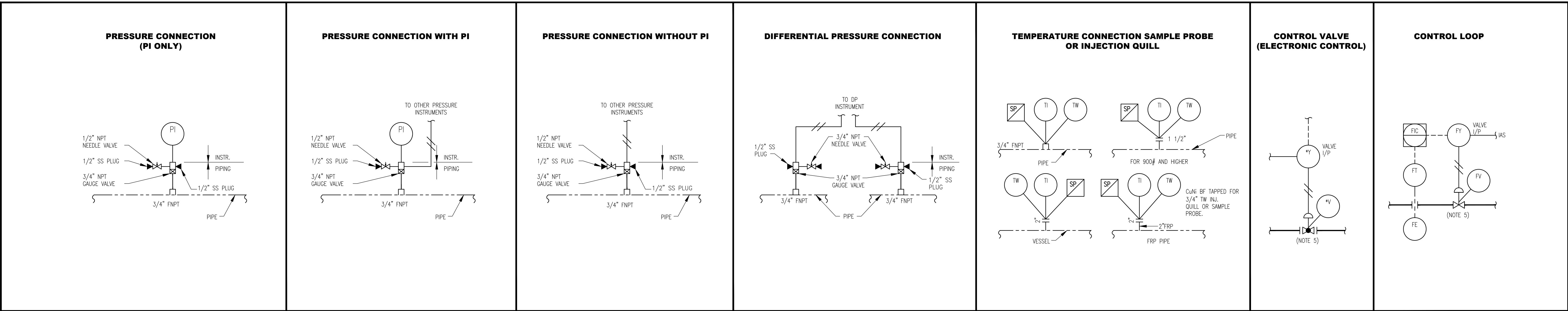


THIS DRAWING AND THE DESIGN IT COVERS ARE CONFIDENTIAL AND REMAIN THE PROPERTY OF ANADARKO PETROLEUM CORPORATION AND SHALL NOT BE DISCLOSED TO OTHERS OR REPRODUCED IN ANY MANNER OR USED FOR ANY PURPOSE WHATSOEVER EXCEPT BY WRITTEN PERMISSION BY THE OWNER.

EQUIPMENT NUMBERING STANDARD		PIPE LINE NUMBERING STANDARD		PIPING SYMBOLS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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TYPE</div> <div>INSULATION TYPE</div> <div>PIPE SPECIFICATION</div>		<div><div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div></div><div>MAJOR</div><div>MAJOR SECONDARY</div><div>MINOR</div><div>MINOR SECONDARY</div><div>SKID LIMITS</div></div>		<div><div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div></div><div>BALL VALVE</div><div>GATE VALVE</div><div>GLOBE VALVE</div><div>PLUG VALVE</div><div>CHECK VALVE</div><div>CHECK VALVE – PISTON</div><div>NEEDLE VALVE</div><div>BUTTERFLY VALVE</div><div>INLINE CHOKE VALVE</div><div>ANGLE CHOKE</div><div>DIAPHRAGM VALVE</div><div>GAUGE VALVE</div><div>BLOCK & BLEED VALVE</div><div>EXCESS FLOW VALVE</div><div>ANGLE VALVE</div><div>CONVENTIONAL PRESSURE RELIEF VALVE</div><div>PILOT RELIEF VALVE</div><div>ANGLE VALVE w/ HANDLE</div><div>DIAPHRAGM GATE VALVE</div><div>DIAPHRAGM BALL VALVE</div><div>PRESSURE REGULATOR GATE VALVE</div><div>PRESSURE REGULATOR BALL VALVE</div><div>PISTON OPERATED GATE VALVE</div><div>PISTON OPERATED BALL VALVE</div><div>SOLENOID GATE VALVE</div><div>SOLENOID BALL VALVE</div><div>ANGLE DIAPHRAGM VALVE</div><div>3-WAY DIAPHRAGM VALVE</div><div>3-WAY SOLENOID VALVE</div><div>3-WAY SPRING OPPOSED VALVE</div><div>3-WAY THERMOSTATIC VALVE</div><div>3-WAY VALVE</div><div>3-WAY VALVE w/ HANDLE</div><div>3-WAY RELIEF VALVE</div></div>		<div><div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div></div><div>BLIND FLANGE OR LINE TERMINATION</div><div>UNION</div><div>SENIOR/JUNIOR ORIFICE METER</div><div>ORIFICE</div><div>ORIFICE CLOSED</div><div>ORIFICE PADDLE</div><div>FLOW TRANSMITTER WITH GATE VALVE</div><div>FLOW TRANSMITTER WITH BALL VALVE</div><div>FLOW TRANSMITTER WITH NEEDLE VALVE</div><div>BLEED RING WITH GATE VALVE</div><div>BLEED RING WITH BALL VALVE</div><div>SPECTACLE BLIND OPEN POSITION</div><div>SPECTACLE BLIND CLOSED POSITION</div><div>PADDLE BLIND CLOSED POSITION</div><div>PADDLE BLIND OPEN POSITION</div><div>NOZZLES</div><div><div><div></div><div></div><div></div><div></div></div><div>COUPLING</div><div>FRONT VIEW CONNECTION</div><div>NOZZLE BLINDED</div><div>NOZZLE FLANGED</div><div>MANWAY SINGLE LINE (SIDE VIEW)</div><div>MANWAY (SIDE VIEW)</div><div>MANWAY (FRONT VIEW)</div><div>TANK CLEANOUT</div><div>EQUIPMENT NOZZLE CALLOUT</div></div></div>		<div><div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div></div><div>Y" TYPE STRAINER</div><div>Y" TYPE STRAINER WITH GATE VALVE</div><div>Y" TYPE STRAINER WITH BALL VALVE</div><div>INSULATION (SEE TABLE)</div><div>INSULATION WITH HEAT TRACE (SEE TABLE)</div><div>INSULATION WITH GLYCOL HEAT TRACE</div><div>EQUIPMENT INSULATION</div><div>TURBINE METER</div><div>POSITIVE DISPLACEMENT METER</div><div>MAGNETIC FLOW METER</div><div>ULTRASONIC METER</div><div>INLINE MIXER</div><div>BASKET STRAINER</div><div>FILTER</div><div>INLINE STRAINER</div><div>CONE STRAINER</div><div>START UP STRAINER (WITCH HAT)</div><div>EXPANSION JOINT</div><div>ROTAMETER FLOW INDICATOR</div><div>V-CONE METER</div><div>VENTURI TUBE OR FLOW NOZZLE</div><div>VENTURI TUBE WITH TAPS</div><div>STRAIGHTENING VANES</div><div>FLOW CONDITIONER</div><div>VORTEX SENSOR</div><div>ANNUBAR</div><div>MASS FLOW CORIOLIS METER</div><div>CORIOLIS METER</div><div>RUPTURE DISK</div><div>RUPTURE DISK (PRESSURE)</div><div>RUPTURE DISK (VACUUM)</div><div>EXCESS FLOW PREVENTER/MIXER</div><div>DIAPHRAGM SEAL</div><div>CHEMICAL SEAL</div><div>PITOT TUBE OR PITOT VENTURI TUBE</div><div>FLOW CONDITIONER</div></div>		<div><div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div></div><div>DRESSER COUPLING</div><div>MATERIAL, AG/BG, INSULATION, PIPING SPEC OR SOW CHANGE</div><div>FLEXIBLE HOSE FLANGED</div><div>FLEXIBLE HOSE</div><div>TRUCK CONNECTION/ BOW & CAP</div><div>AGITATOR</div><div>TRUCK (BACK VIEW)</div><div>TRUCK (SIDE VIEW)</div><div>RAILCAR</div><div>Y-TRAP OPEN DRAIN</div><div>LIQUID SEAL X"=HEIGHT</div><div>VENT</div><div>TIE IN TO EXISTING PIPING OR PIPING BY OTHERS</div><div>SPECIALITY ITEM</div><div>INSULATING FLANGE KIT</div><div>CORROSION COUPON</div><div>PROCESS STREAM FLOW</div><div>FLAME ARRESTOR</div><div>MIST PAD OR MIST ELIMINATOR</div><div>VORTEX BREAKER</div><div>EJECTOR OR EDUCTOR</div><div>SLOPE POINTED IN DOWNHILL SIDE</div><div>PLUG</div><div>BULL PLUG</div><div>CAP WELDED/PIPE/ LINE OR TERMINATION</div><div>CAP THREADED</div><div>INSTRUMENT BREAK</div><div>VENT TO ATMOS</div><div>VENT WITH BUG SCREEN</div><div>PIG PASSAGE INDICATOR (PIG SIG)</div></div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
<div>EQUIPMENT IDENTIFICATION CODE</div> <div><div><div>AC-#### AIR COOLED FIN FAN</div><div>C-#### COMPRESSOR</div><div>E-#### EXCHANGER</div><div>F-#### FILTER</div><div>H-#### FIRED HEATERS</div><div>M-#### MOTOR</div><div>P-#### PUMP</div><div>R-#### REACTOR</div></div><div><div>T-#### TOWER</div><div>TK-#### TANK ATMOSPHERE</div><div>V-#### VESSEL, PROCESS</div><div>VS-#### VESSEL, STORAGE</div><div>FL-#### SPECIALTY I.E., VENT STACK, FLARE, INCINERATOR, ECD</div><div>TO-#### THERMAL OXIDIZER</div><div>X-#### MISC. EQUIPMENT</div></div></div>		<div>SERVICE IDENTIFICATION CODE</div> <div><div><div>AD = ACID DRAIN</div><div>AF = ACID FLARE</div><div>AG = ACID GAS</div><div>AO = ABSORPTION OIL</div><div>AV = ATMOSPHERE VENT</div><div>B = N-BUTANE</div><div>BD = BUILDING DRAIN</div><div>BG = BLANKET GAS</div><div>BV = BLOWDOWN VENT</div><div>BW = BOILER FEED WATER</div><div>C = CAUSTIC</div><div>CA = COMBUSTION AIR</div><div>CD = CLOSED DRAIN</div><div>CW = COLD WATER</div><div>DA = DRAIN ATMOSPHERIC</div><div>DF = DIESEL FUEL</div><div>DP = DRAIN PRESSURED</div><div>DW = DECHILLED WATER</div><div>E = ETHANE</div><div>FG = FUEL GAS</div><div>FW = FIRE WATER</div><div>G = GLYCOL</div><div>GH = GAS HYDROCARBON</div><div>H = HYDROGEN SULFIDE</div><div>HC = HIGH PRESSURE CONDENSATE</div><div>HD = HIGH PRESSURE DRAIN</div><div>HF = HIGH PRESSURE FLARE</div><div>HO = HOT OIL</div><div>HS = HIGH PRESSURE STEAM</div><div>HW = HOT WATER</div><div>IB = ISOBUTANE</div><div>IG = INSTRUMENT GAS</div><div>IG = JACKET WATER</div><div>LA = LEAN AMINE</div><div>LD = LOW PRESSURE CONDENSATE</div><div>LD = LOW PRESSURE DRAIN</div><div>LF = LOW PRESSURE FLARE</div><div>LG = LEAN GLYCOL</div></div><div><div>LH = LIQUID HYDROCARBON</div><div>LO = LUBE OIL</div><div>LS = LOW PRESSURE STEAM</div><div>M = METHANE</div><div>MC = MEDIUM PRESSURE CONDENSATE</div><div>MD = MEDIUM PRESSURE DRAIN</div><div>MF = MEDIUM PRESSURE FLARE</div><div>MS = MEDIUM PRESSURE STEAM</div><div>N = NITROGEN</div><div>NG = NATURAL GAS</div><div>O = OIL</div><div>OD = OPEN DRAIN</div><div>OT = HOT OIL TRACE</div><div>OV = OIL VENT</div><div>P = PROPANE</div><div>PA = PROCESS AIR</div><div>PC = PROCESS CONDENSATE</div><div>PF = PROCESS FLARE</div><div>PG = POWER GAS</div><div>PV = PROCESS VENT</div><div>PW = PRODUCED WATER</div><div>RA = RICH AMINE</div><div>RG = RICH GLYCOL</div><div>RW = RAW WATER</div><div>SA = STARTING AIR</div><div>SD = SOLVENT DRAIN</div><div>SC = STARTING GAS</div><div>SO = SEAL OIL</div><div>ST = STEAM TRACE</div><div>SW = SOUR (PRODUCED) WATER</div><div>TG = TREATED GAS</div><div>TW = TREATED WATER</div><div>UA = UTILITY AIR</div><div>UV = UTILITY VENT</div><div>UW = UTILITY WATER</div><div>V = VENT GAS</div><div>W = WELL FLUID</div><div>WF = WASTE WATER</div><div>WW = WASTE WATER</div></div></div>		<div>VALVE CONNECTIONS</div> <div><div><div></div><div></div><div></div><div></div></div><div>THREADED/SOCKET WELD VALVE</div><div><div><div></div><div></div><div></div><div></div></div><div>FLANGED VALVE</div></div></div> <div>REDUCERS</div> <div><div><div></div><div></div><div></div><div></div></div><div>CONCENTRIC</div><div><div><div></div><div></div><div></div><div></div></div><div>EOCENTRIC (FOB) OR (FSD)</div><div><div><div></div><div></div><div></div><div></div></div><div>EOCENTRIC (FOT) OR (FSU)</div><div><div><div></div><div></div><div></div><div></div></div><div>SWAGE</div></div></div><div>CONTROL ACTUATORS</div><div><div><div></div><div></div><div></div><div></div></div><div>DIAPHRAGM OPERATOR</div><div><div><div></div><div></div><div></div><div></div></div><div>COUNTERWEIGHT ACTUATOR VALVE</div><div><div><div></div><div></div><div></div><div></div></div><div>PRESSURE REGULATOR SELF-CONTAINED</div><div><div><div></div><div></div><div></div><div></div></div><div>DIAPHRAGM w/ HANDWHEEL</div><div><div><div></div><div></div><div></div><div></div></div><div>PISTON OPERATOR</div><div><div><div></div><div></div><div></div><div></div></div><div>PRESSURE REGULATOR w/ EXTERNAL PRESSURE TAP</div><div><div><div></div><div></div><div></div><div></div></div><div>PRESSURE REGULATOR SELF-CONTAINED w/ ADJUSTING KNOB</div><div><div><div></div><div></div><div></div><div></div></div><div>VALVE ACTUATOR AND POSITIONER</div></div></div><div>MISCELLANEOUS ACTUATORS</div><div><div><div></div><div></div><div></div><div></div></div><div>HANDWHEEL ACTUATOR</div><div><div><div></div><div></div><div></div><div></div></div><div>ELECTROHYDRAULIC ACTUATOR</div><div><div><div></div><div></div><div></div><div></div></div><div>ELECTRIC MOTOR ACTUATOR</div><div><div><div></div><div></div><div></div><div></div></div><div>SOLENOID NON-LATCHING</div><div><div><div></div><div></div><div></div><div></div></div><div>SOLENOID LATCHING R=LOCAL RESET E=ELECTRIC RESET</div></div></div></div></div></div></div></div></div></div></div></div></div></div>		<div>LINKS AND FLOW ARROWS</div> <div><div><div><div></div><div></div><div></div><div></div></div><div>INDICATES PROCESS INPUT/OUTPUT & FLOW DIRECTION FROM OR TO OTHER AREAS</div><div><div><div></div><div></div><div></div><div></div></div><div>P&ID TO/FROM EQUIPMENT</div><div><div><div></div><div></div><div></div><div></div></div><div>DUAL FLOW</div><div><div><div></div><div></div><div></div><div></div></div><div>CONTINUATION ARROW FROM/TO OUTSIDE SCOPE</div><div><div><div></div><div></div><div></div><div></div></div><div>CONTINUATION OF INSTRUMENT SYMBOL</div><div><div><div></div><div></div><div></div><div></div></div><div>FLOW DIRECTION ARROW</div></div></div></div></div></div></div></div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
<div>NOTES:</div>		<div>REFERENCE DRAWINGS</div>		<div>REVISIONS</div> 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THIS DRAWING AND THE DESIGN IT COVERS ARE CONFIDENTIAL AND REMAIN THE PROPERTY OF ANADARKO PETROLEUM CORPORATION AND SHALL NOT BE DISCLOSED TO OTHERS OR REPRODUCED IN ANY MANNER OR USED FOR ANY PURPOSE WHATSOEVER EXCEPT BY WRITTEN PERMISSION BY THE OWNER.

TANKS	VESSELS			EXCHANGERS		PUMPS	
FLAT ROOF	VERTICAL VESSEL	VERTICAL VESSEL WITH SKIRT		EXCHANGER - DOUBLE END		PUMP - VERTICAL (Y AXIS)	
				EXCHANGER - SINGLE END		PUMP - CENTRIFUGAL (Y AXIS)	
SLOPING ROOF	VERTICAL VESSEL WITH CONE	VERTICAL VESSEL WITH SKIRT & CONE		EXCHANGER - DOUBLE END KETTLE		PUMP - DUAL	
				EXCHANGER - SINGLE END KETTLE		PUMP - SUMP (Y AXIS)	
FLOATING ROOF	VERTICAL FLAT BOTTOM VESSEL	HORIZONTAL VESSEL		EXCHANGER - SUPER		PUMP - ROTARY	
				EXCHANGER - PROCESS FLOW		PUMP - VACUUM	
				LEAN/RICH AMINE EXCHANGER		PUMP - WITH STEAM TURBINE	
				FUEL GAS HEATER		PUMP - AIR OPERATED PUMP	
						PUMP - DIAPHRAM	
						PULSATION DAMPENER	
						MOTOR	
						EQUIPMENT TAG	
						TAG DESC - - - - TAG	




- NOTES:
1. P&ID DETAILS ARE TYPICAL UNLESS INDICATED OTHERWISE ON THE P&ID WITH SPECIFIC APPLICATION.
 2. LEVEL GAUGES SHOULD SPAN THE OPERATIONAL RANGE WITH 3" EXTRA VISIBLE GLASS AT HIGH AND LOW LEVELS. LEVEL GAUGE TO BE SUPPLIED AS AN ASSEMBLED UNIT.
 3. SP&LS BRIDLES SHALL BE PROVIDED WITH EXTRA LENGTH BETWEEN CENTER-TO-CENTERS TO ALLOW FOR FIELD ADJUSTMENT WHERE POSSIBLE.
 4. CORROSION COUPON TO BE EXTRACTED WITH A TOOL HAVING A DOUBLE BLOCK AND BLEED VALVE.
 5. VALVES USED ON AMINE UNIT TO HAVE COMPATIBLE SOFT GOODS FOR AMINE SERVICE.

REFERENCE DRAWINGS		REVISIONS					
			INITIAL RELEASE FOR ENGINEERING STANDARD	JRF	05/24/19	MJ	05/24/19 PM
			ISSUED FOR REVIEW	JRF	03/27/18		
			ISSUED FOR APC STANDARD	MJ	10/27/17	SH	10/27/17 PA
DWG. NO.	TITLE	NO.	DESCRIPTION	BY	DATE	CHK.	APPR. DATE

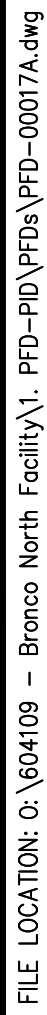


OXY STANDARD

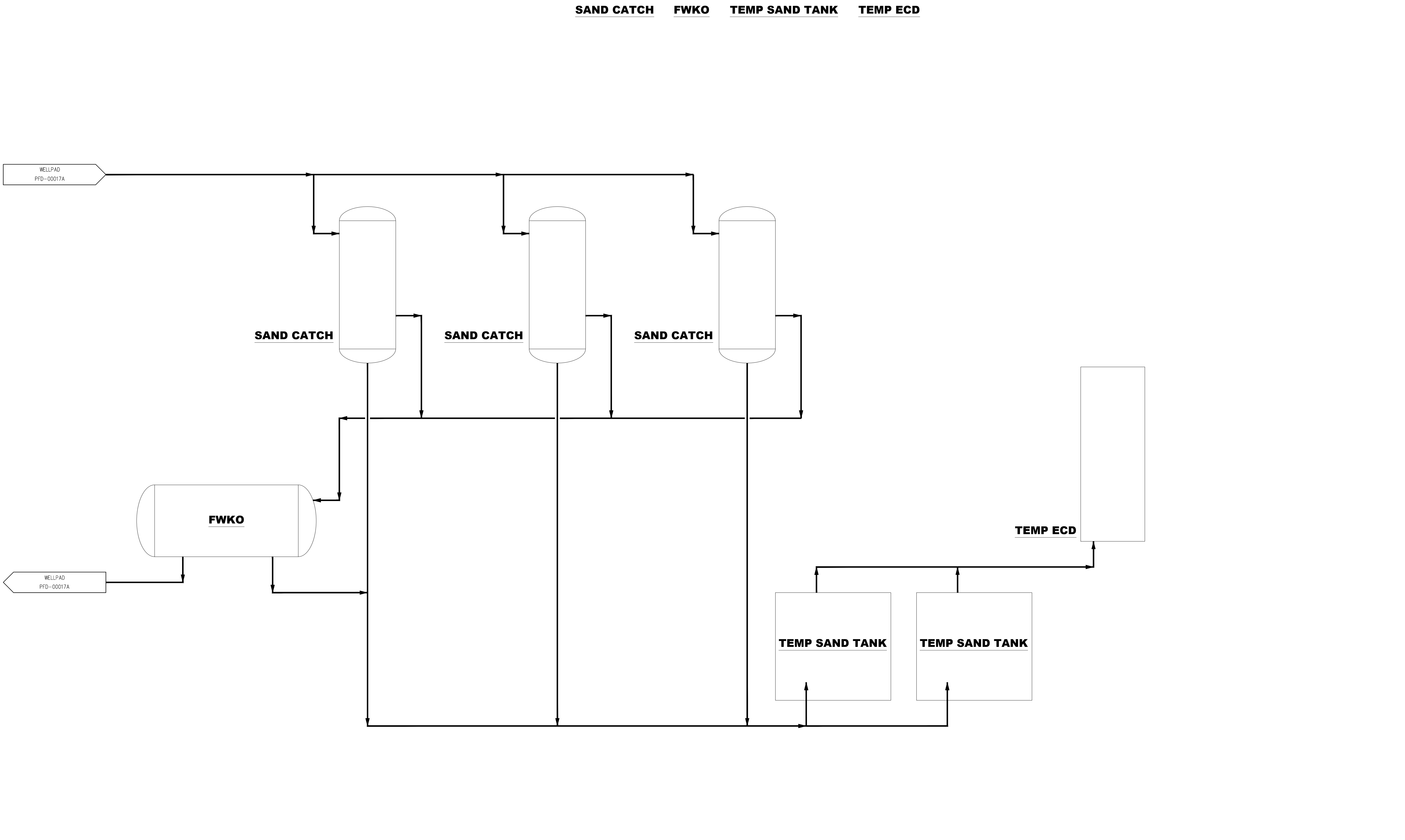
PIPING & INSTRUMENTATION DIAGRAM

DRAWN BY: MJ	CREATION DATE: —	AFE No.:	
APPROVED: —	APPR. DATE: —		
	DWG. No.:	SHEET No.	
SCALE: NONE	OXY-PID-STD-00012		3 OF 4

DRAWN BY: MJ	CREATION DATE: —	AFE No.:	
APPROVED: —	APPR. DATE: —		
SCALE: NONE	DWG. No.:	SHEET No.	
	OXY-PID-STD-00013	4 OF 4	



NOTES: 1. AFTER PEAK PRODUCTION 2ND FLOWLINE WILL BE ISOLATED AND REMOVED FORM SERVICE; 3-5 YEARS AFTER PEAK. 2. GAS LIFT HEADER PRESSURE = 1250 PSIG.	REFERENCE DRAWINGS		REVISIONS						Kerr-McGee Oil & Gas Onshore LP			PROCESS FLOW DIAGRAM 5 MINUTES TO MIDNIGHT WELLPAD PFD				
						</										



NOTES:

REFERENCE DRAWINGS		REVISIONS		

