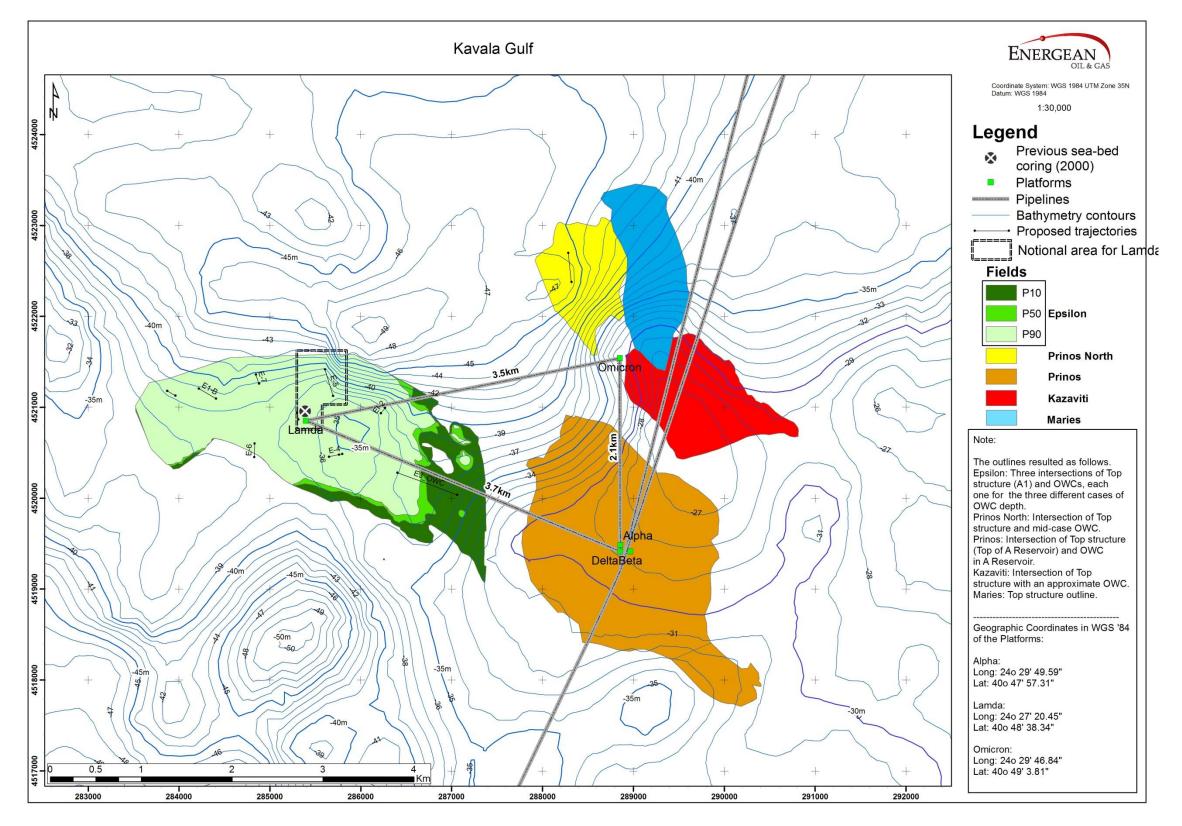
ANNEX 02: MAPS & DRAWINGS- PIPING & INSTRUMENTATION DIAGRAMS (P&IDs)- PROCESS FLOW DIAGRAMS (PFDs)

Maps & Drawings



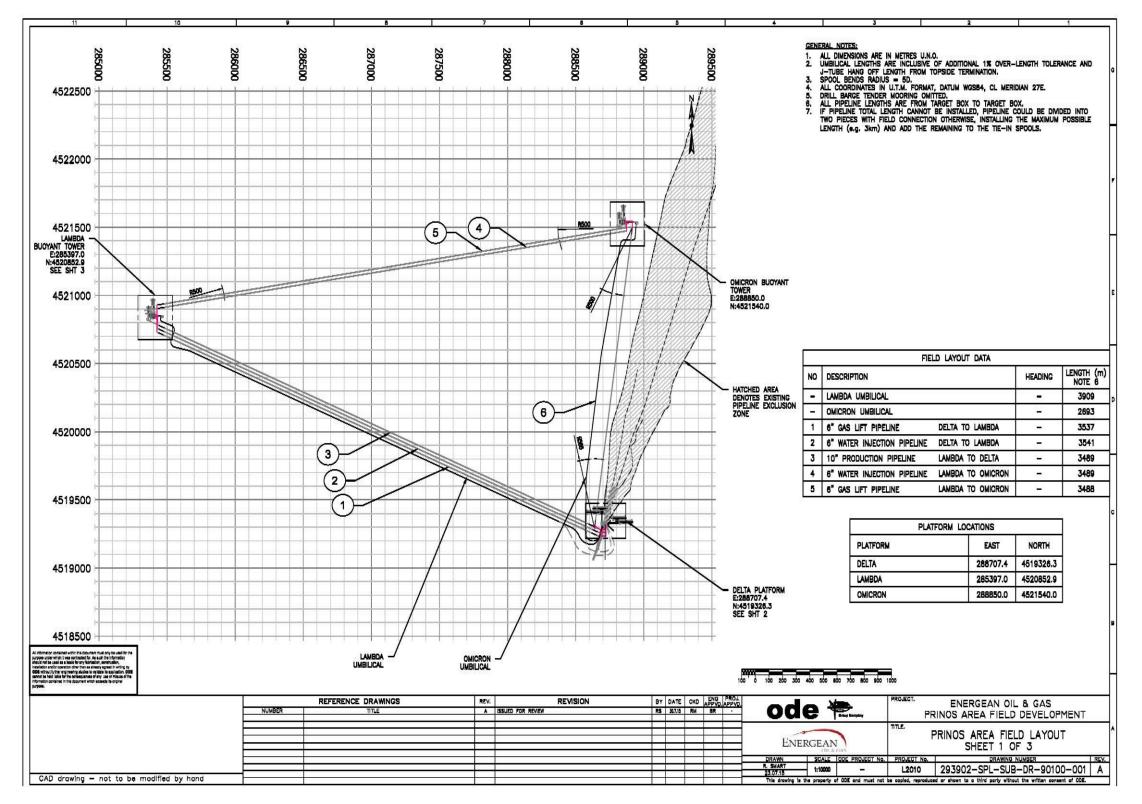




Drawing 1: Prinos oil field reservoirs and development layout for Prinos area



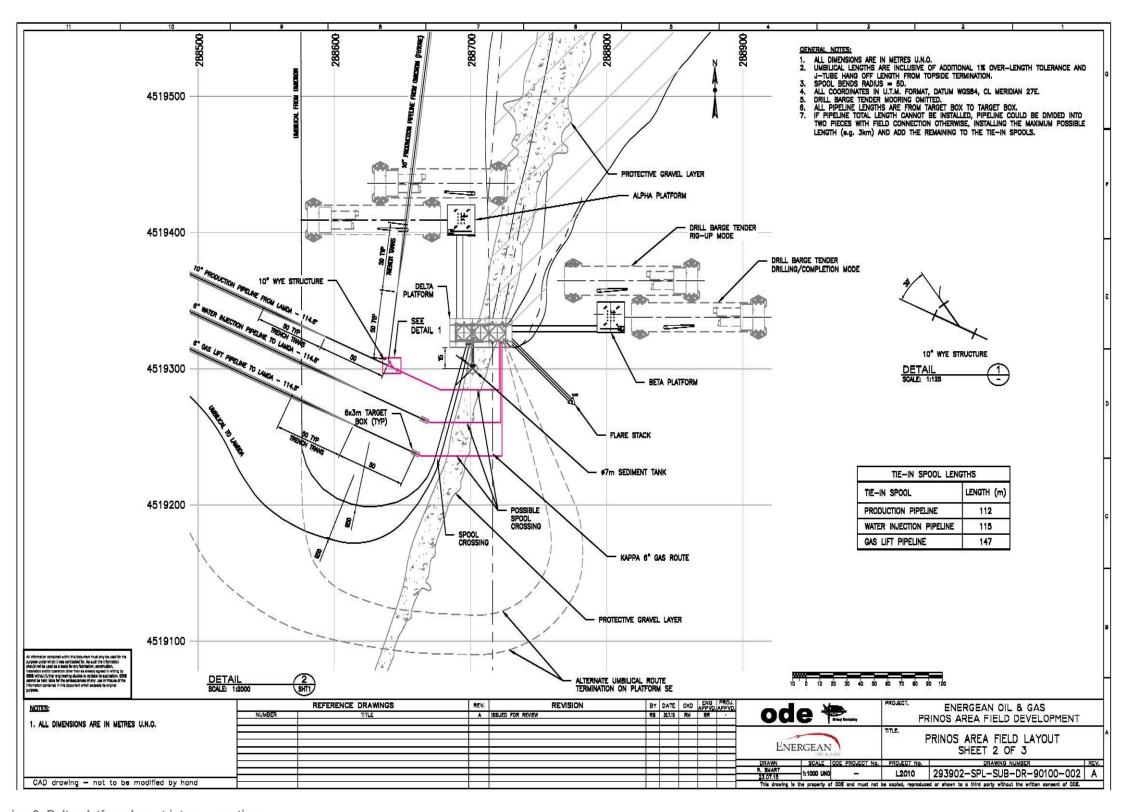




Drawing 2: Prinos complex interconnection arrangements with the planned installations of Lamda and Omicron platforms



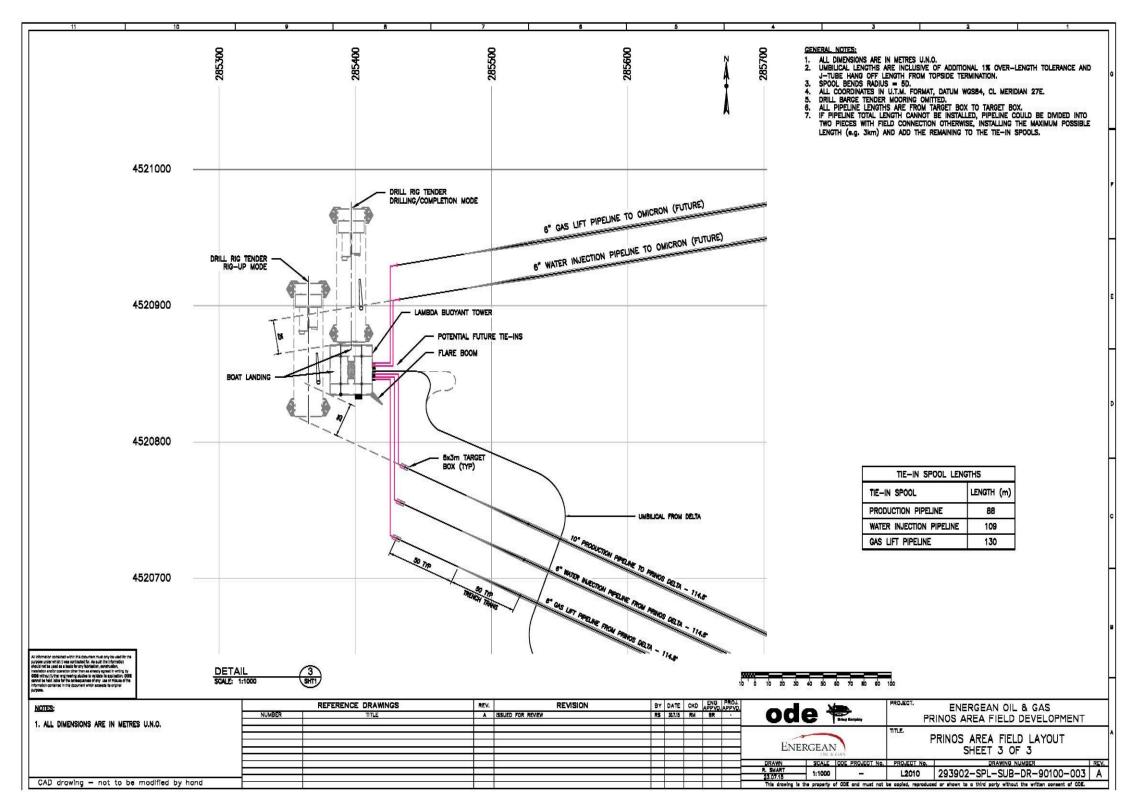




Drawing 3: Delta platform layout interconnection



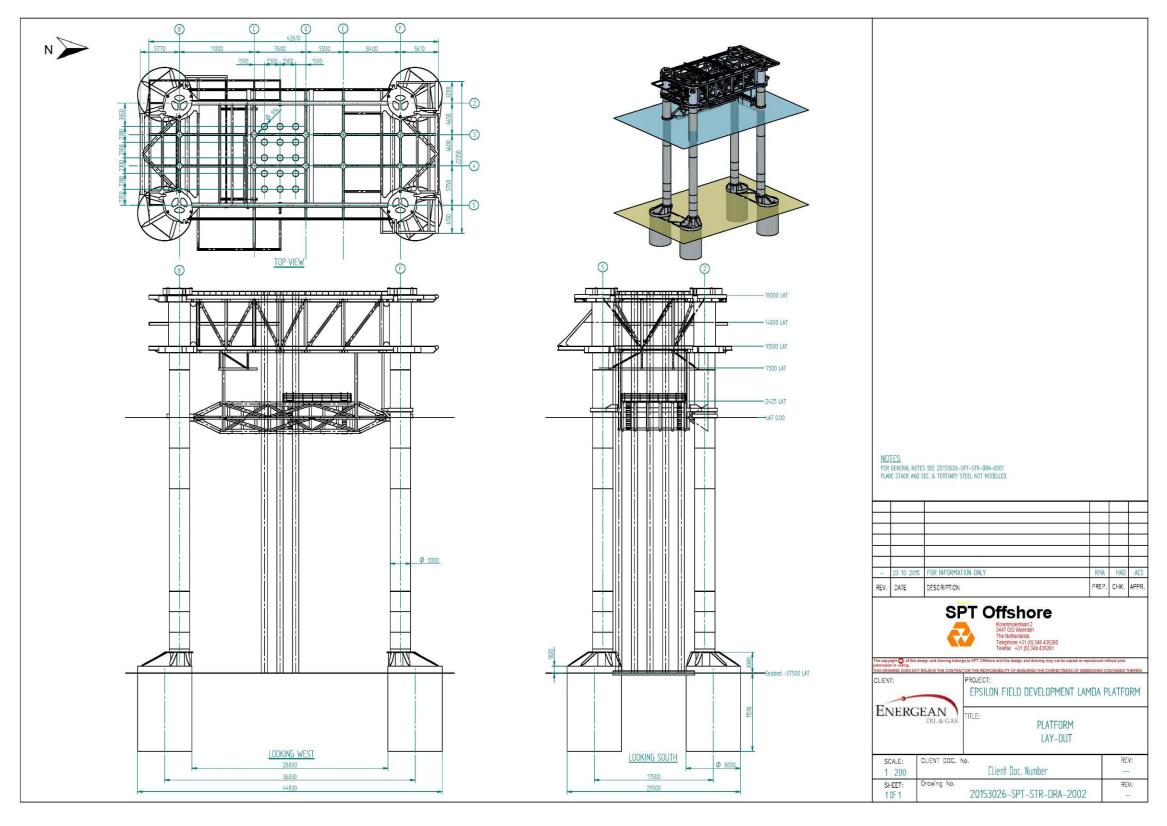




Drawing 4: Lamda platform layout and interconnections



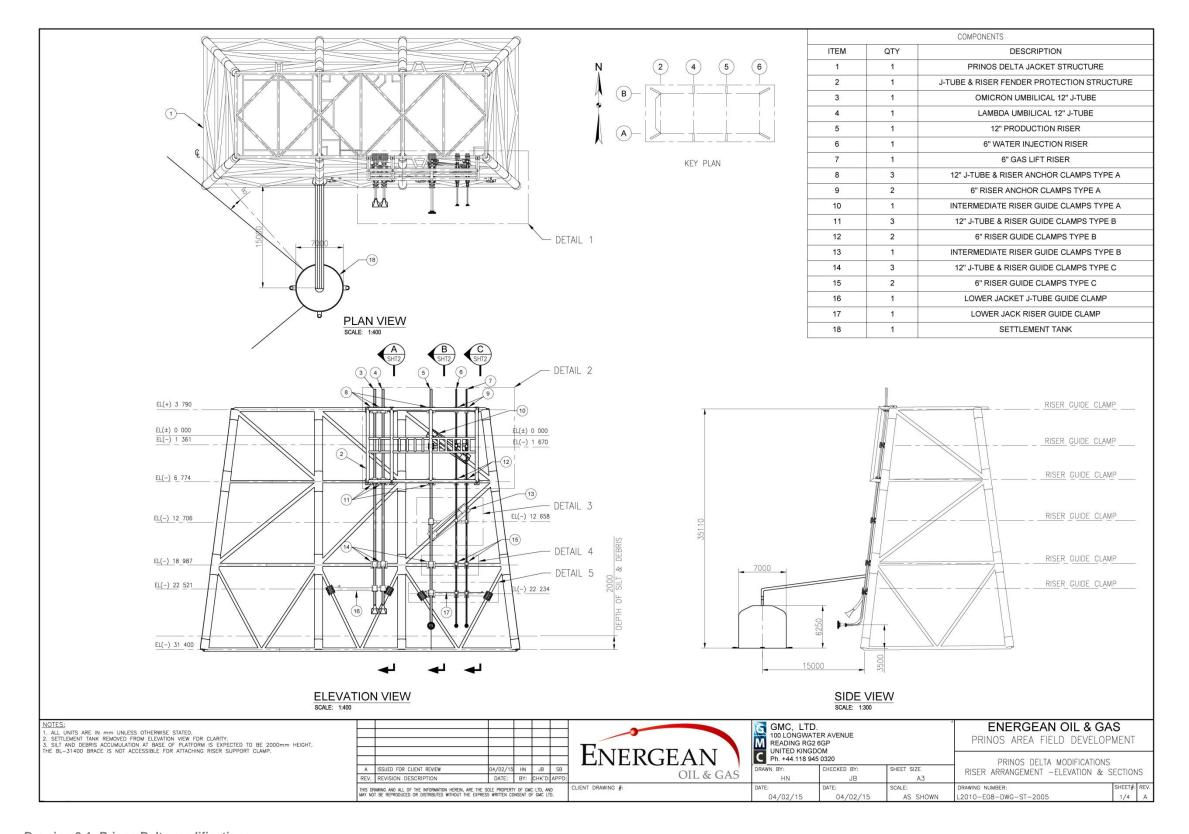




Drawing 5: Lamda – Omicorn platform layouts



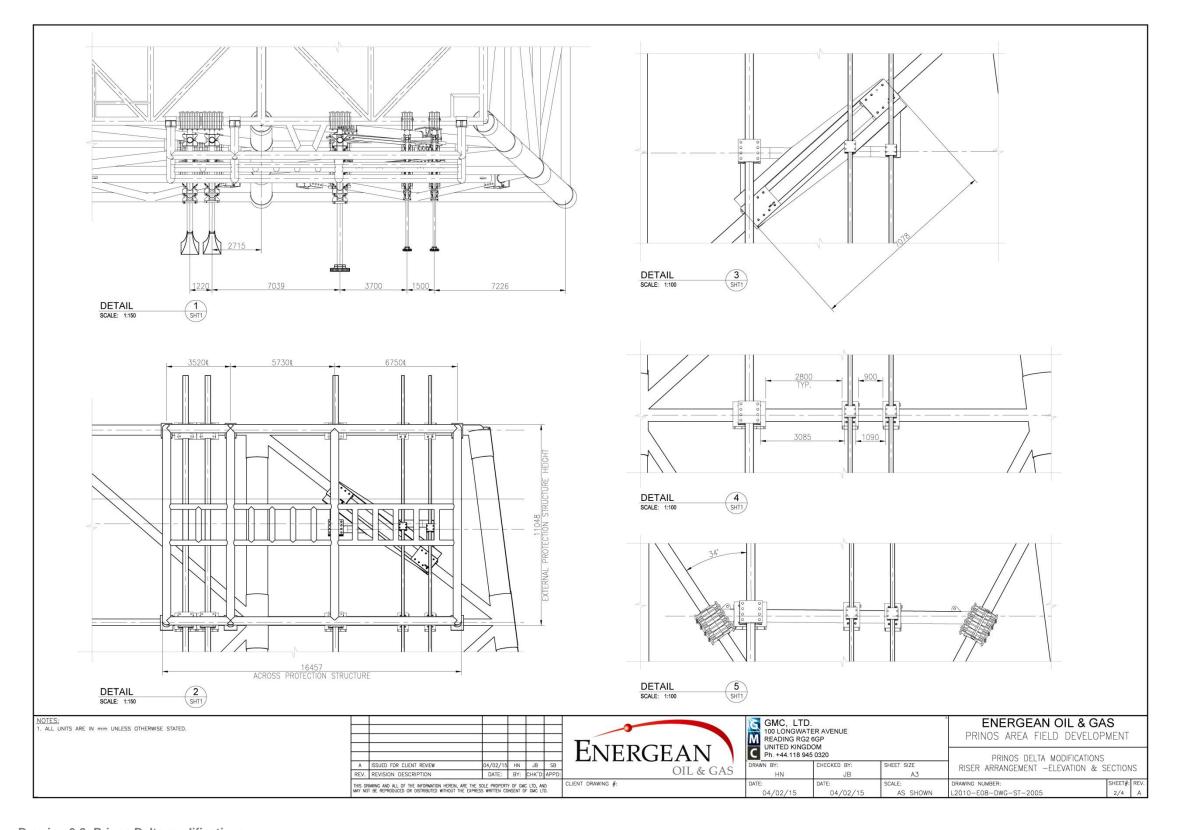




Drawing 6-1: Prinos Delta modifications



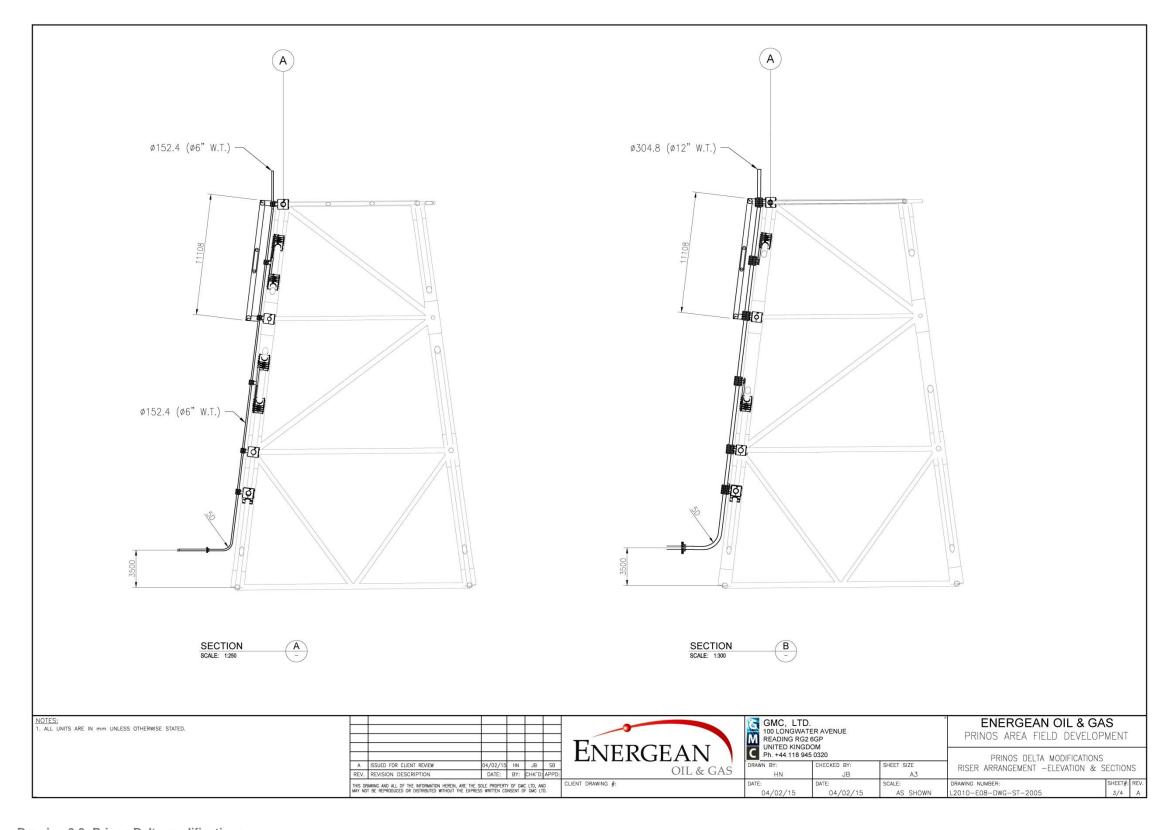




Drawing 6-2: Prinos Delta modifications



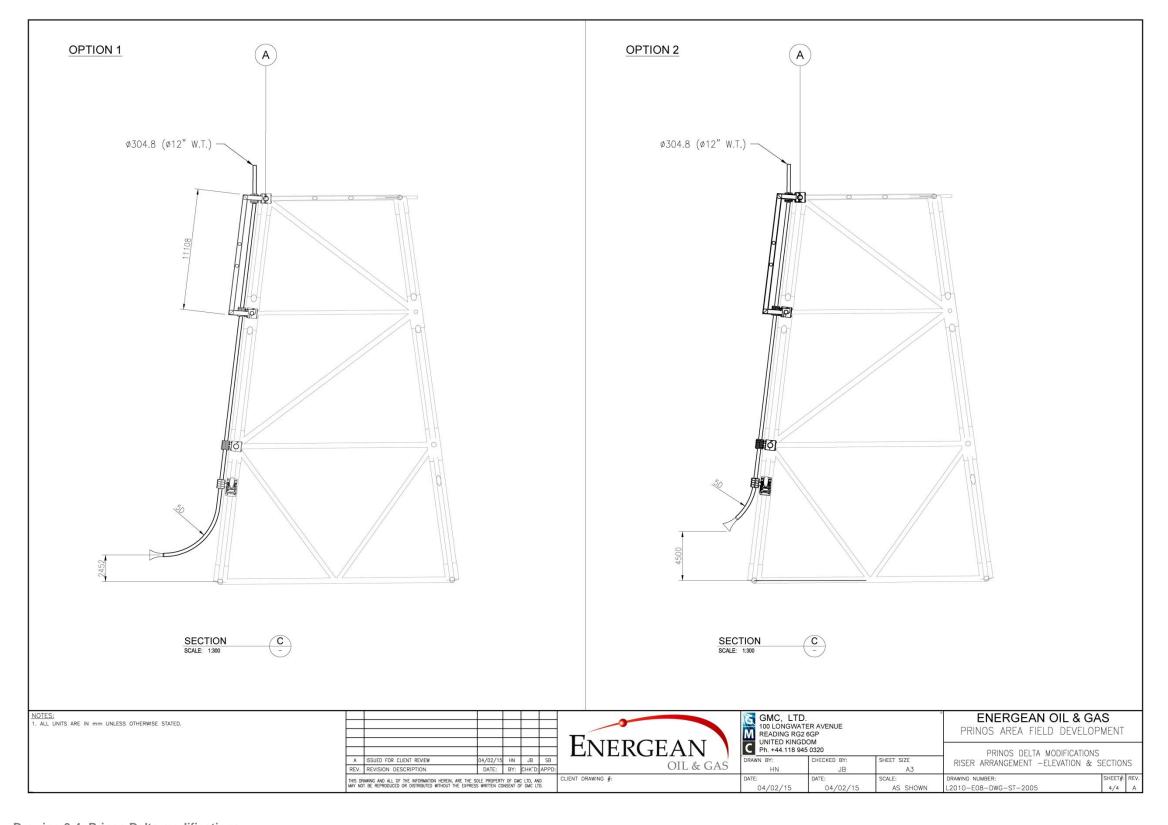




Drawing 6-3: Prinos Delta modifications



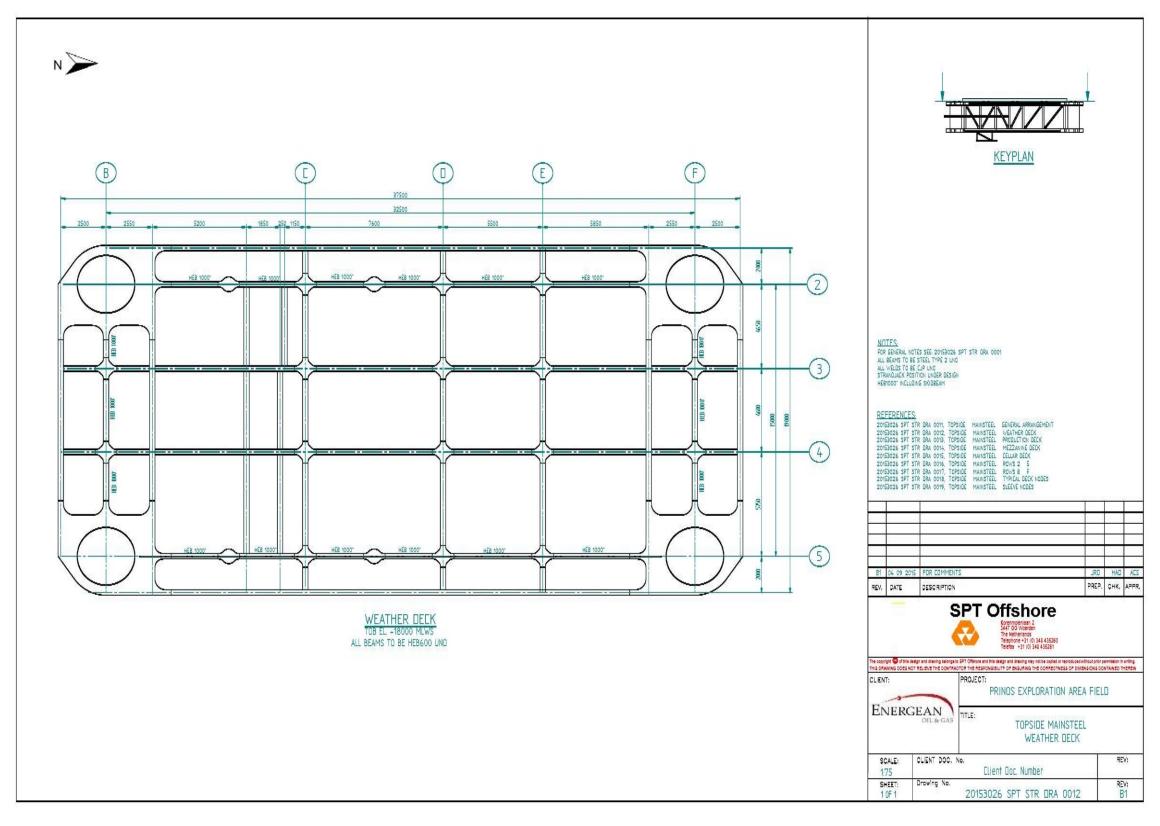




Drawing 6-4: Prinos Delta modifications



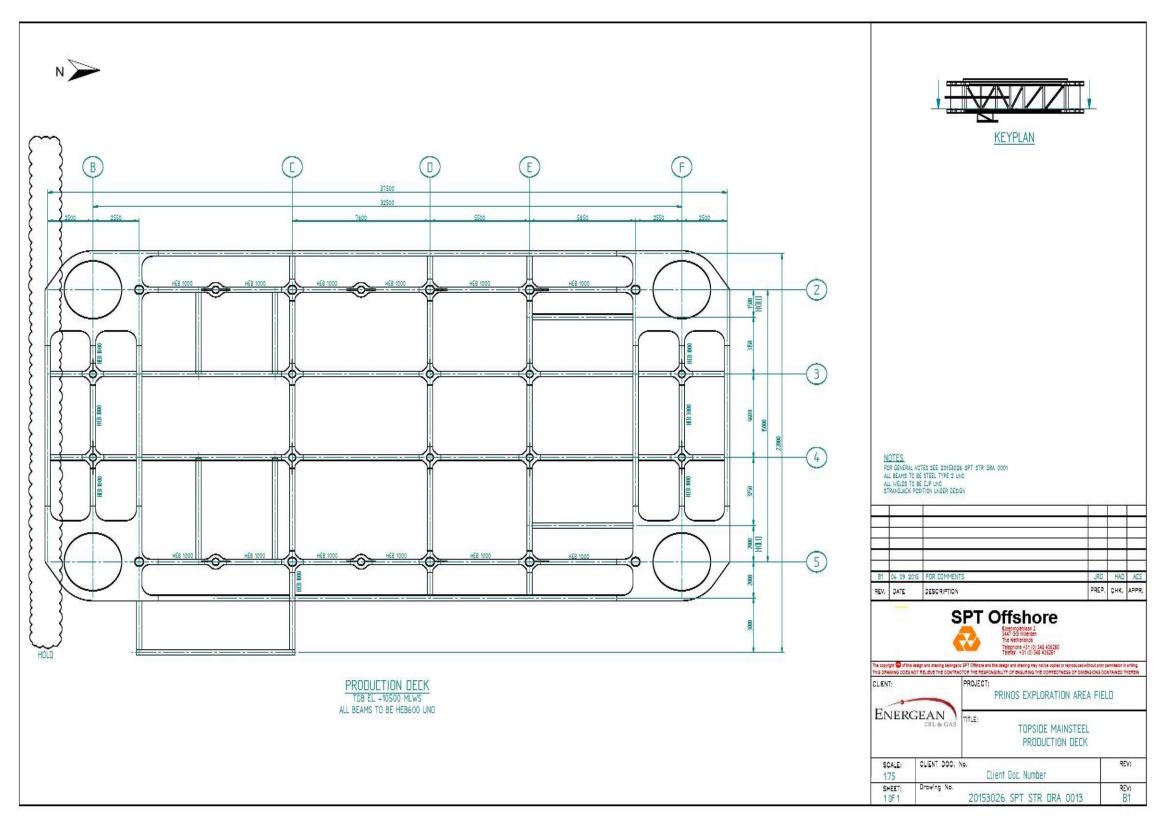




Drawing 7: Topside Mainsteel Weather Deck



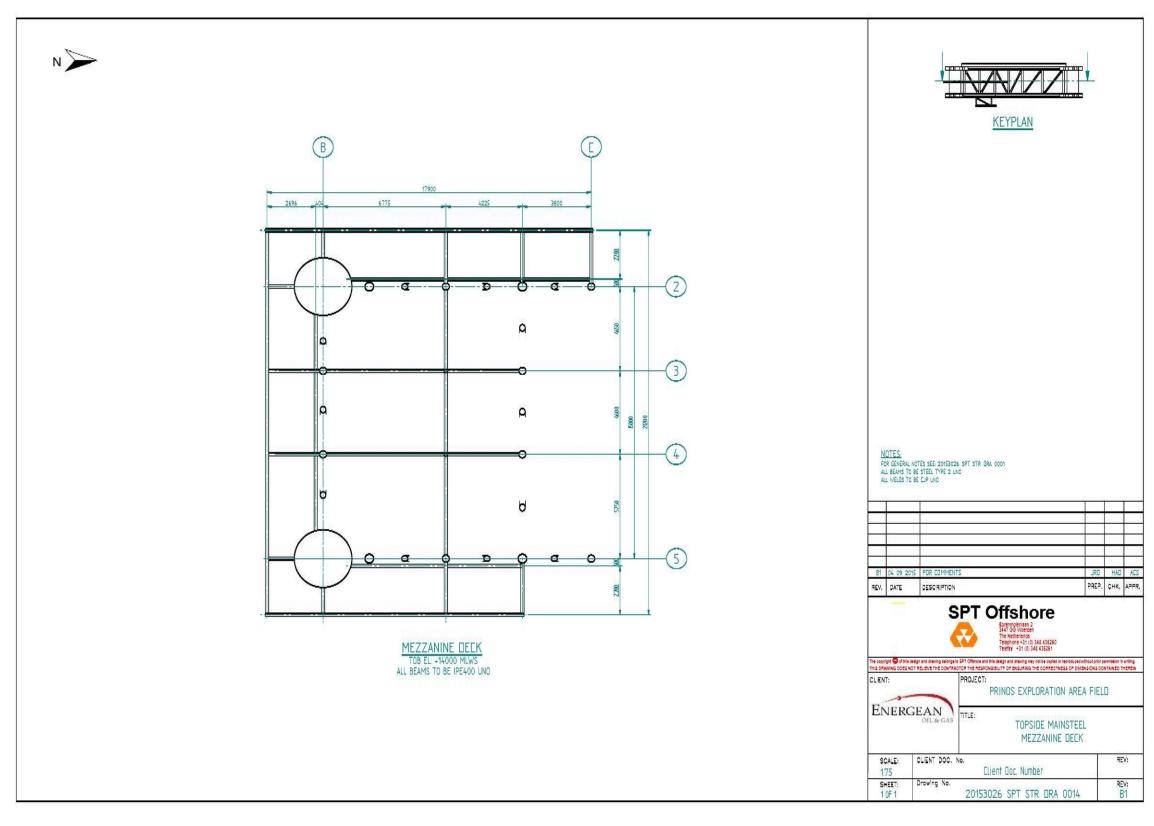




Drawing 8: Topside Mainsteel Production Deck



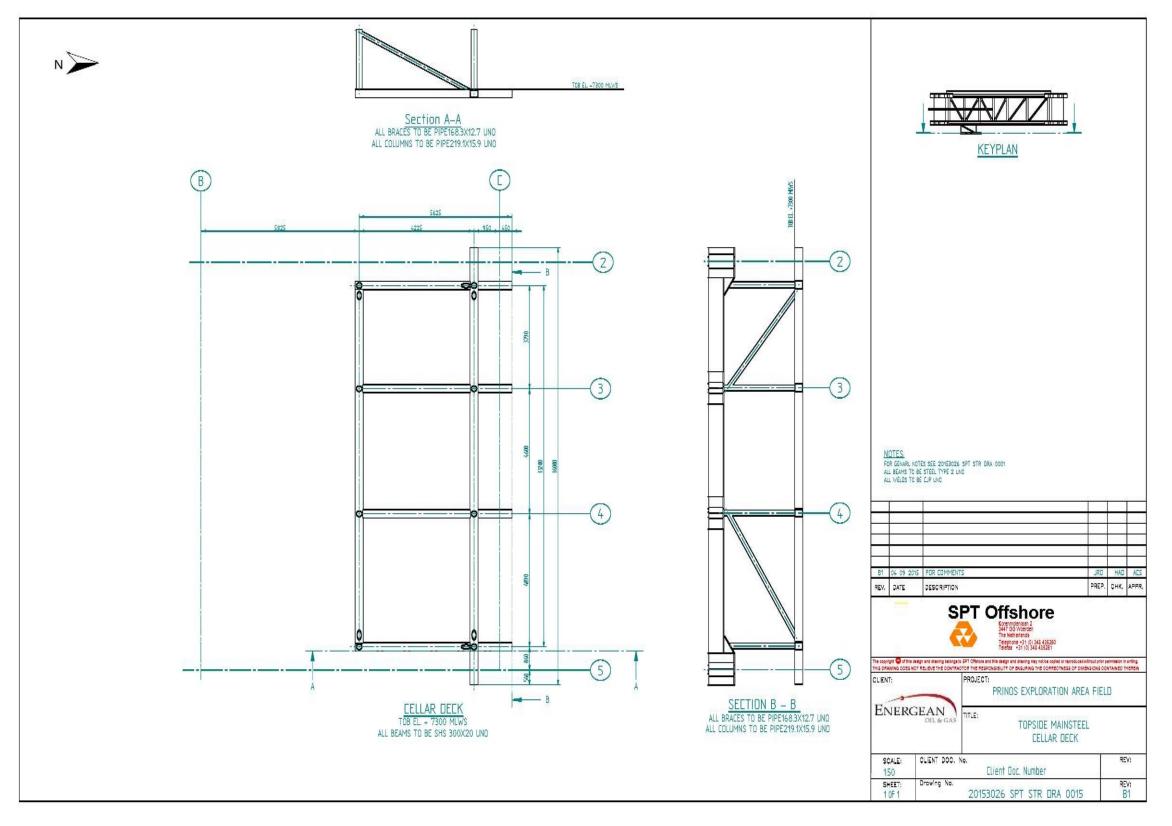




Drawing 9: Topside Mainsteel Mezzanine Deck



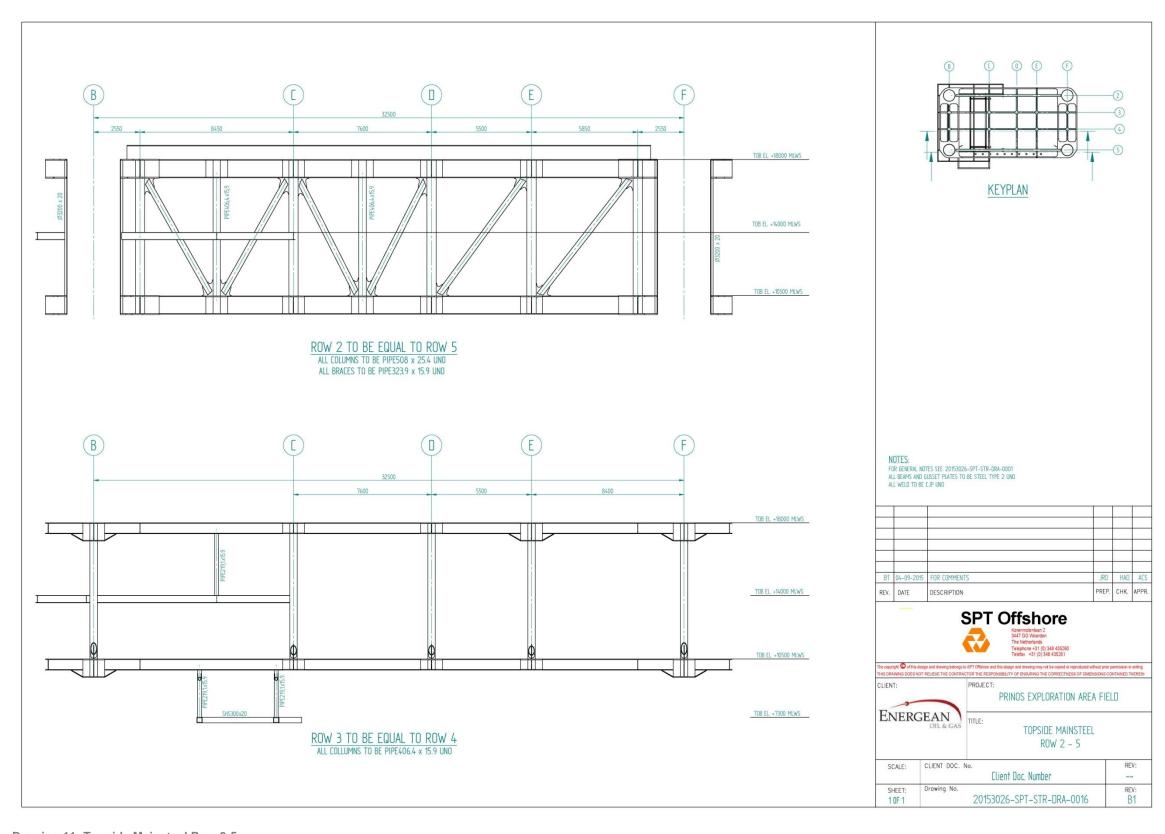




Drawing 10: Topside Mainsteel Cellar Deck



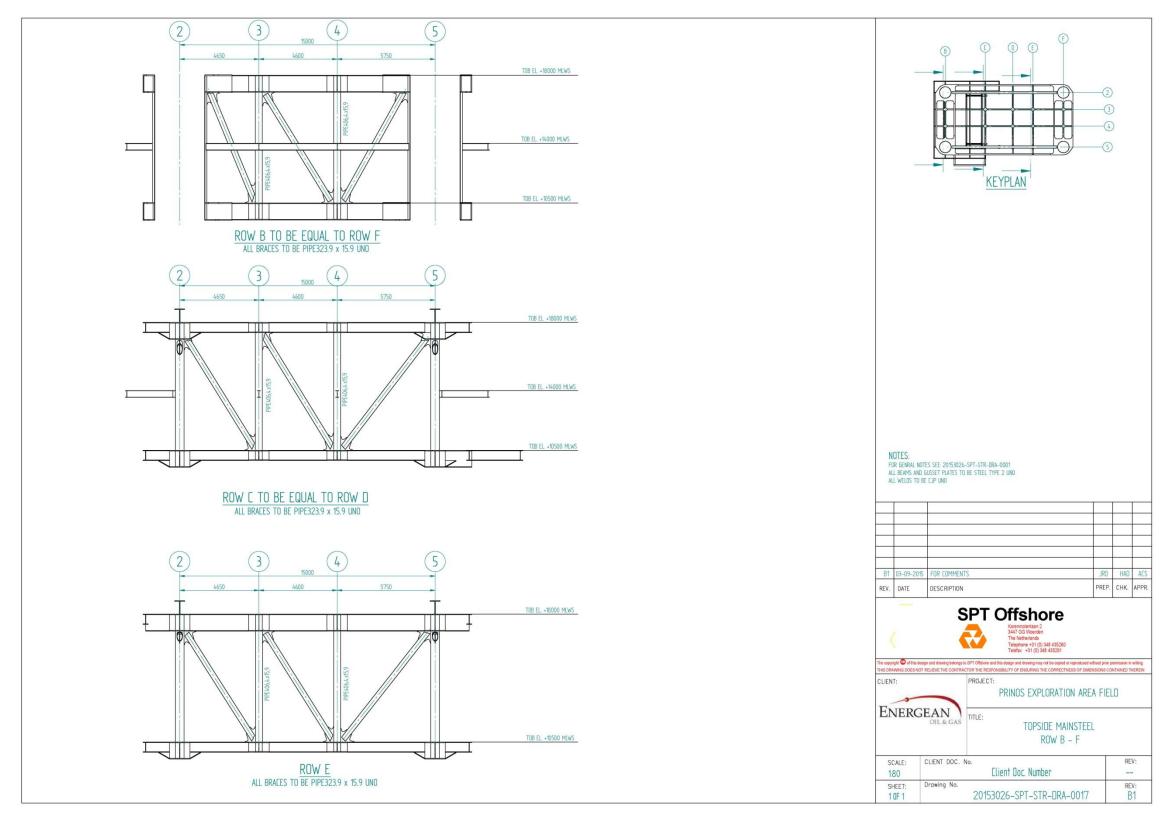




Drawing 11: Topside Mainsteel Row 2-5



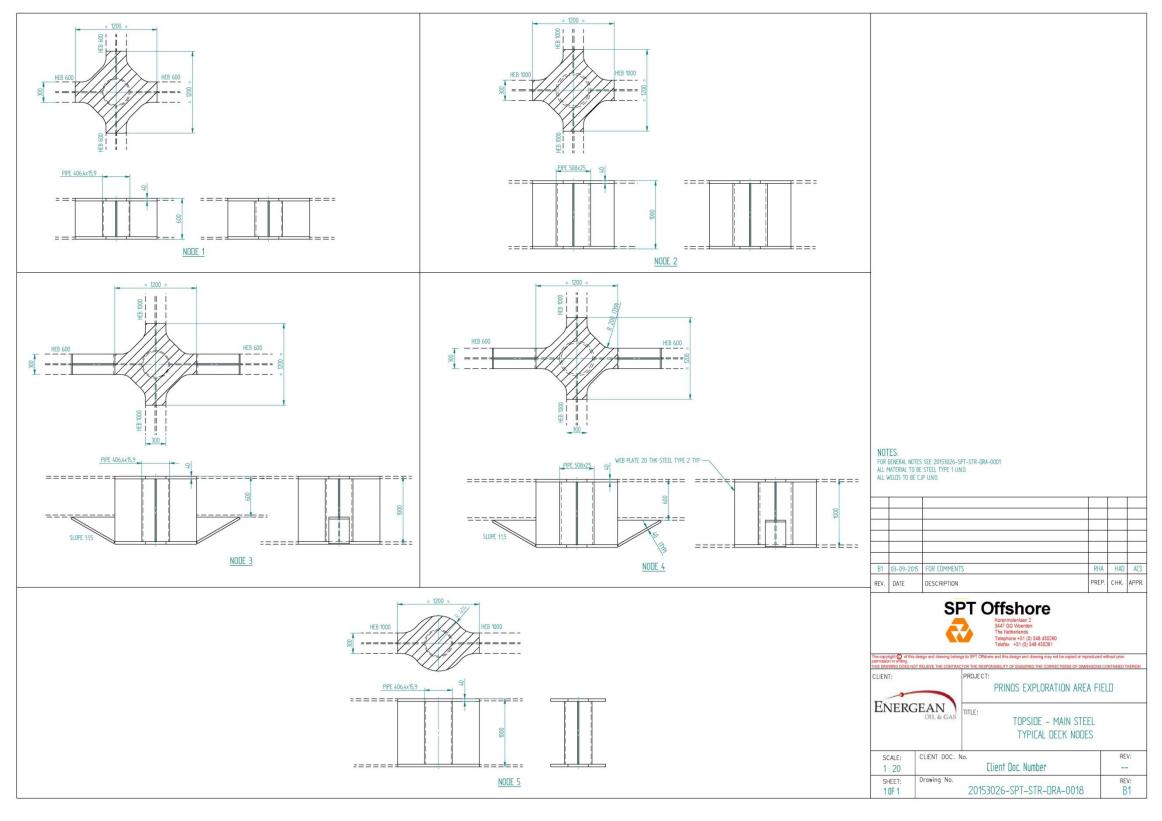




Drawing 12: Topside Mainsteel Row B-F



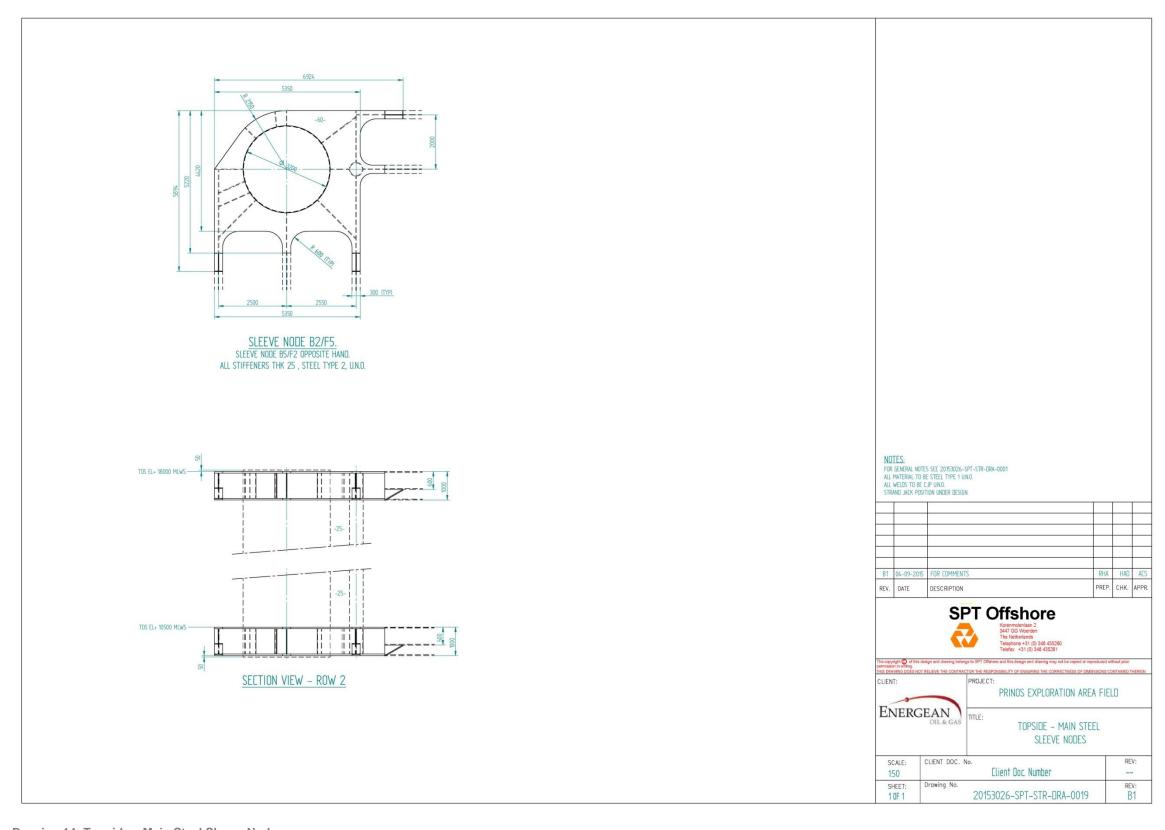




Drawing 13: Topside – Main Steel Typical Deck Nodes



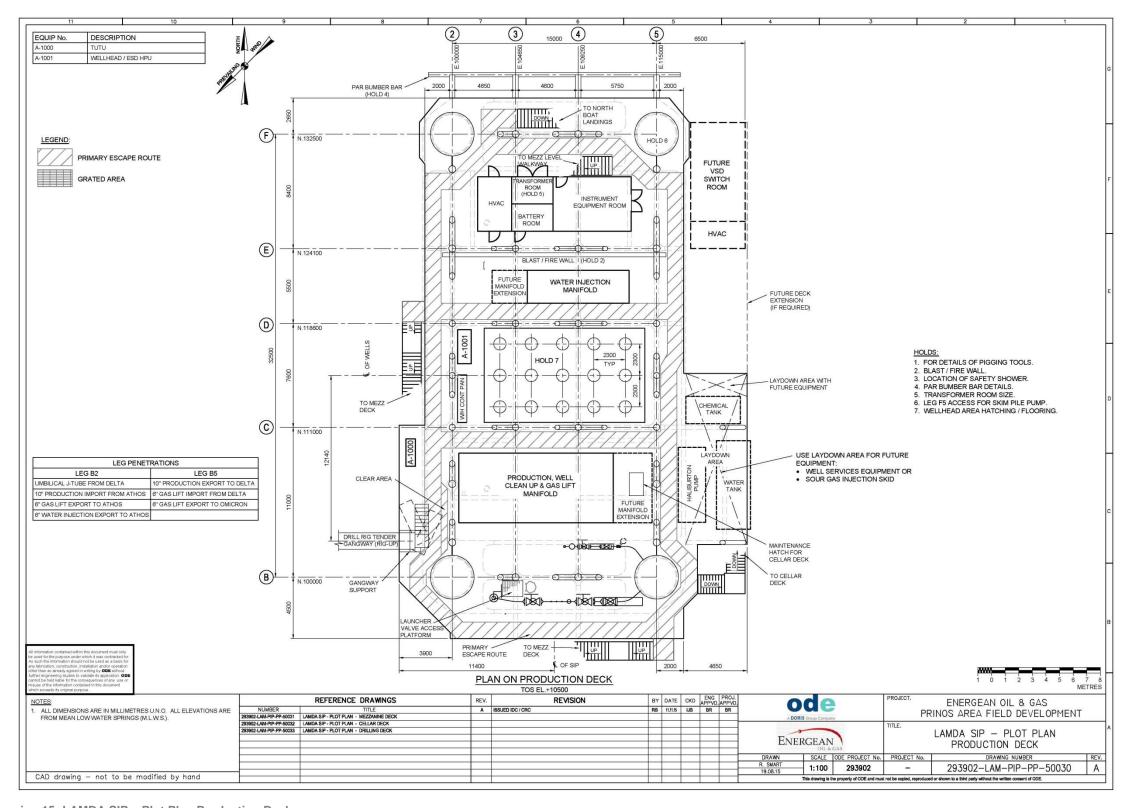




Drawing 14: Topside – Main Steel Sleeve Nodes



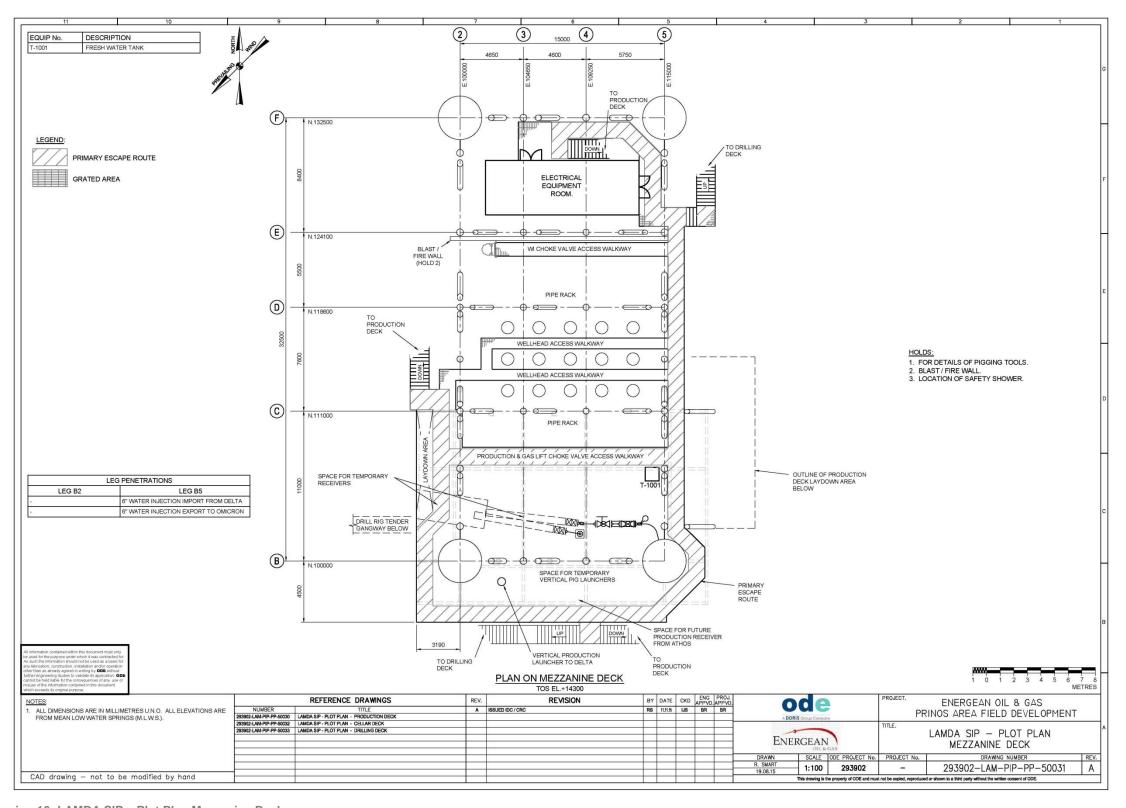




Drawing 15: LAMDA SIP – Plot Plan Production Deck



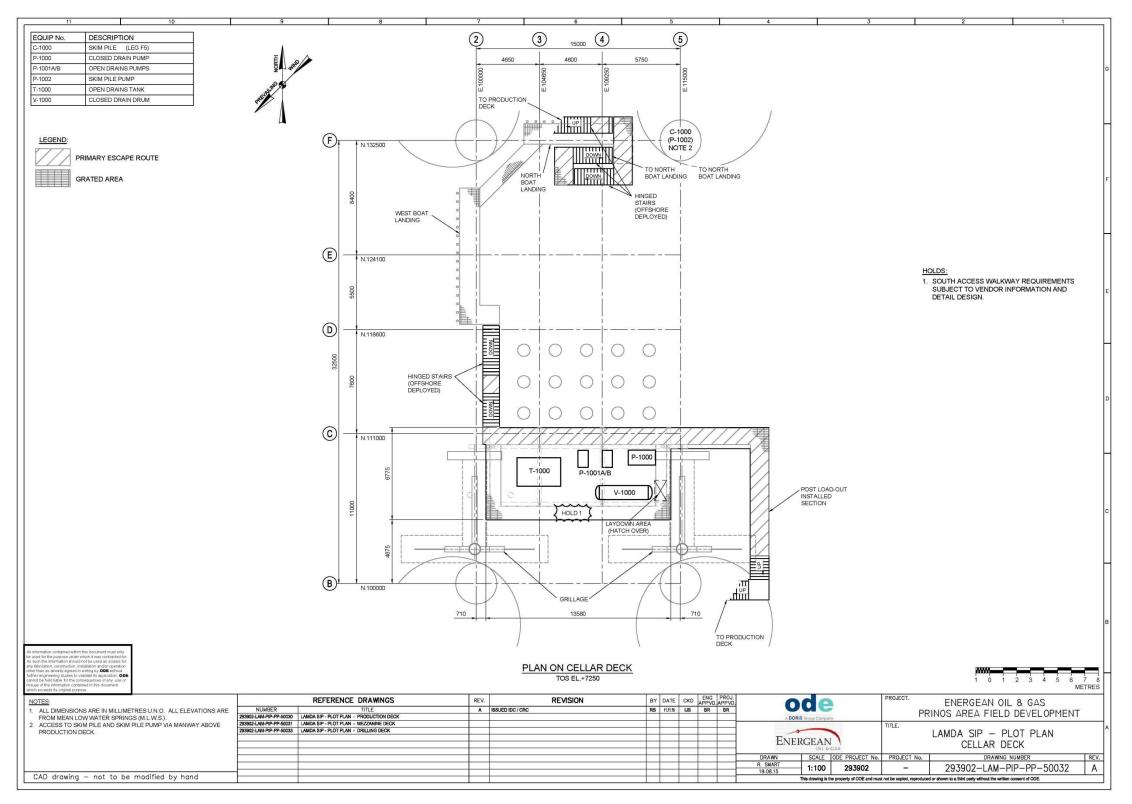




Drawing 16: LAMDA SIP – Plot Plan Mezzanine Deck



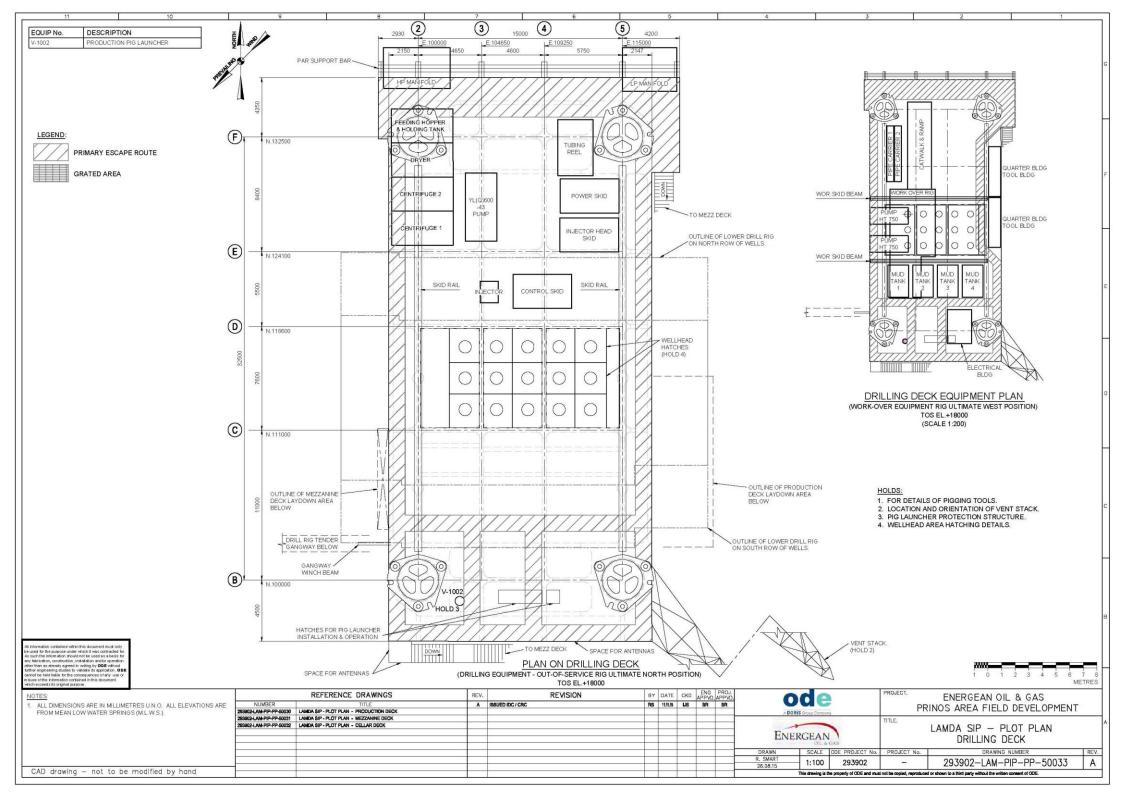




Drawing 17: LAMDA SIP – Plot Plan Cellar Deck



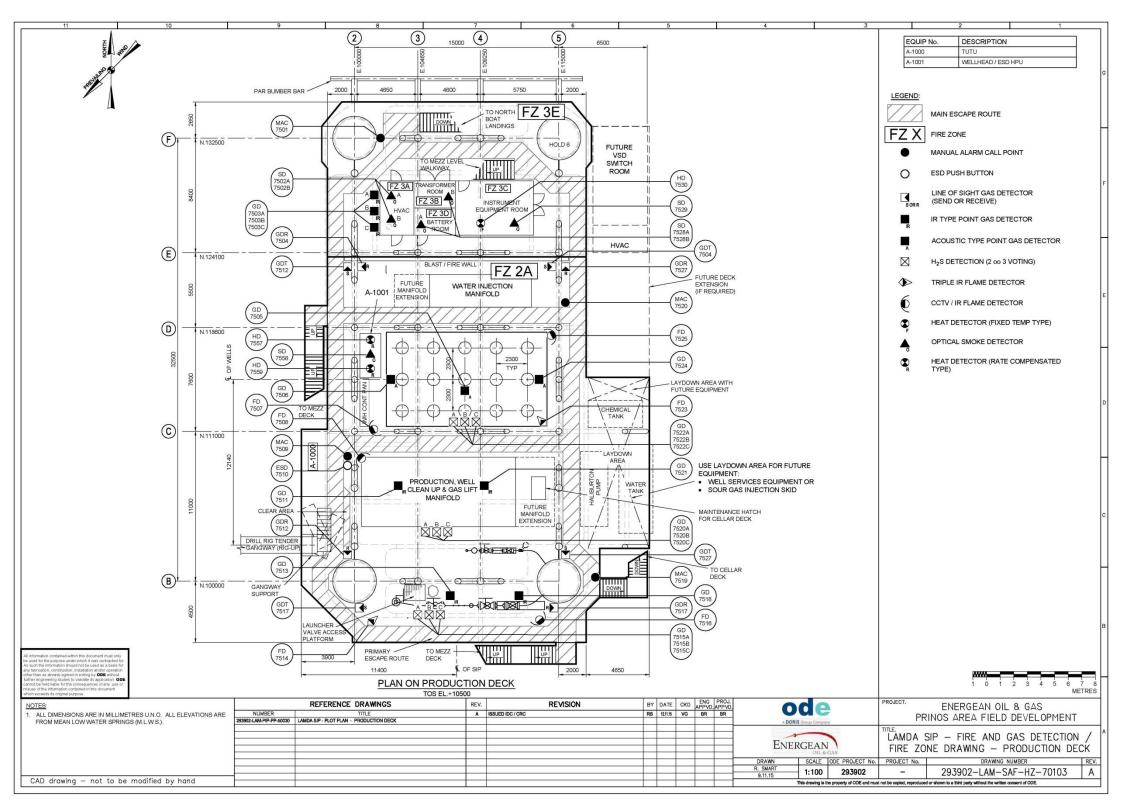




Drawing 18: LAMDA SIP - Plot Plan Drilling Deck



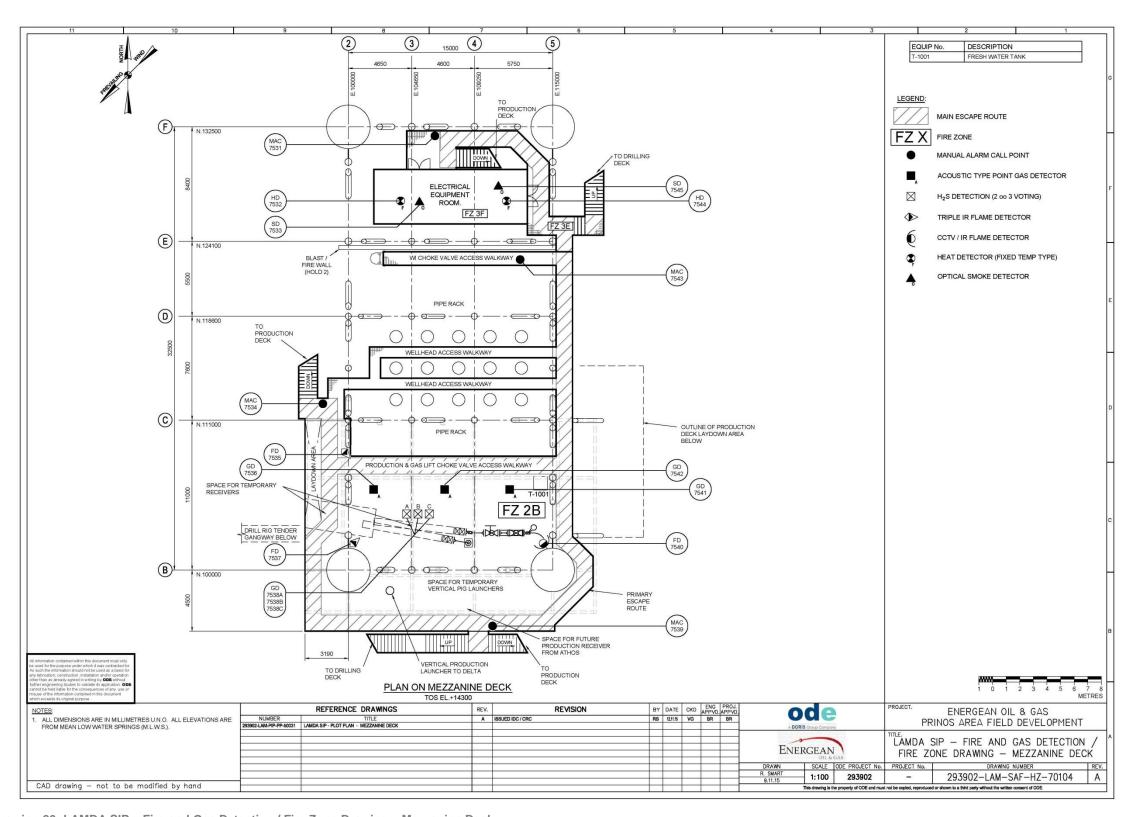




Drawing 19: LAMDA SIP - Fire and Gas Detection / Fire Zone Drawing - Production Deck



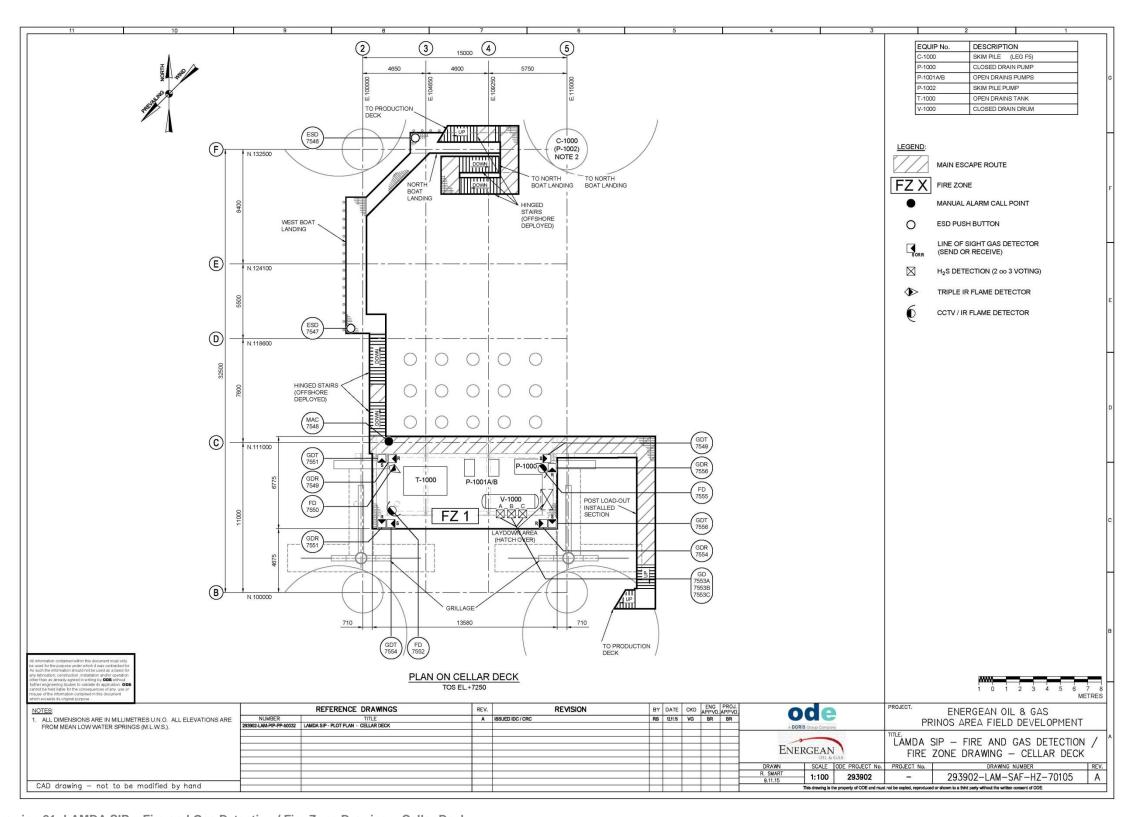




Drawing 20: LAMDA SIP – Fire and Gas Detection / Fire Zone Drawing – Mezzanine Deck







Drawing 21: LAMDA SIP – Fire and Gas Detection / Fire Zone Drawing – Cellar Deck





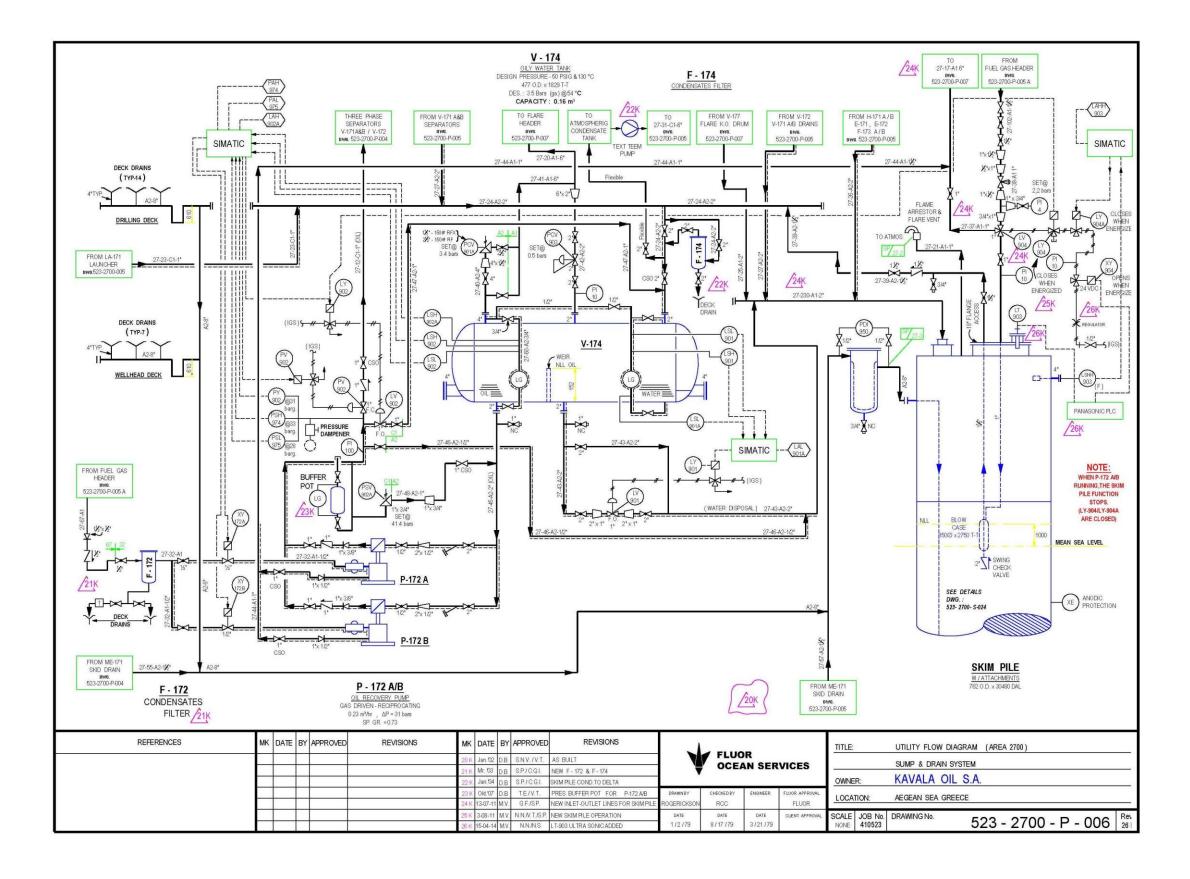


Piping and Instrumentation diagrams (P&IDs)

Existing facilities

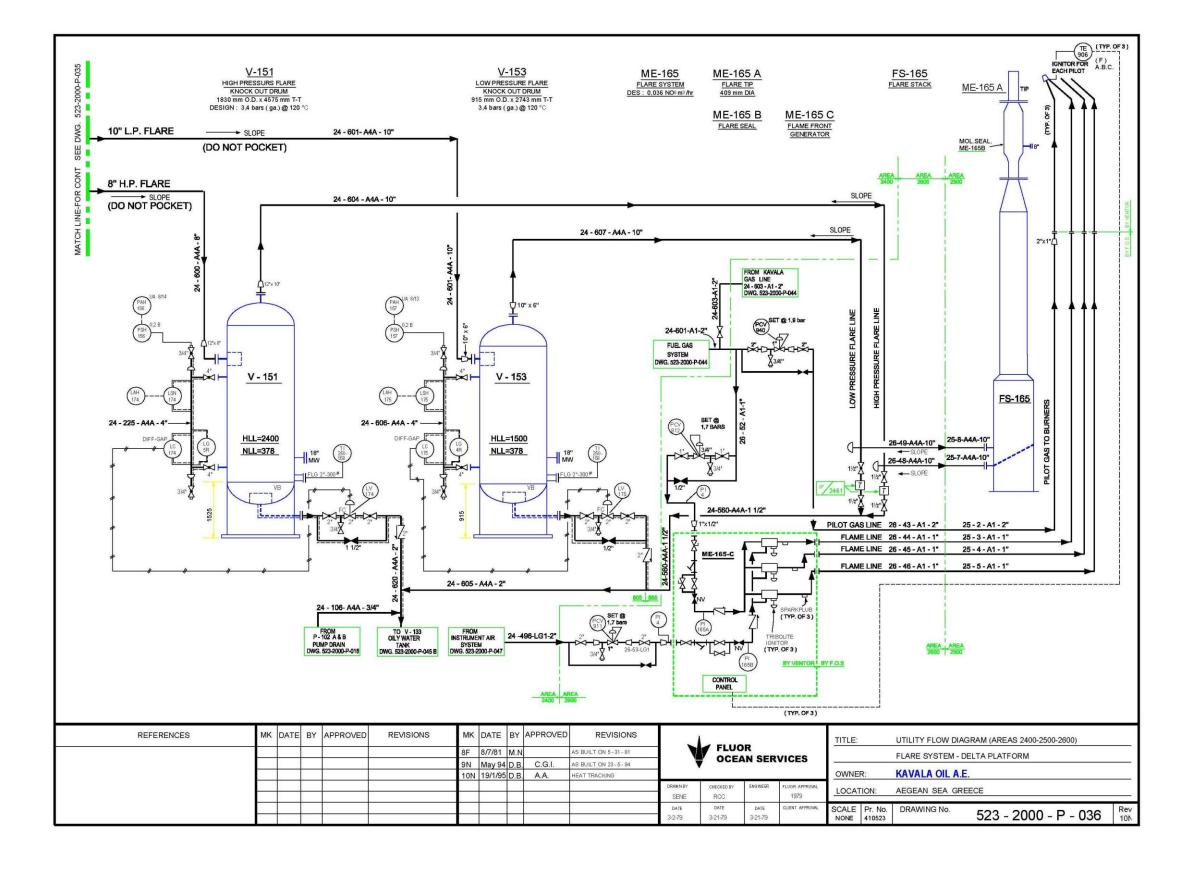






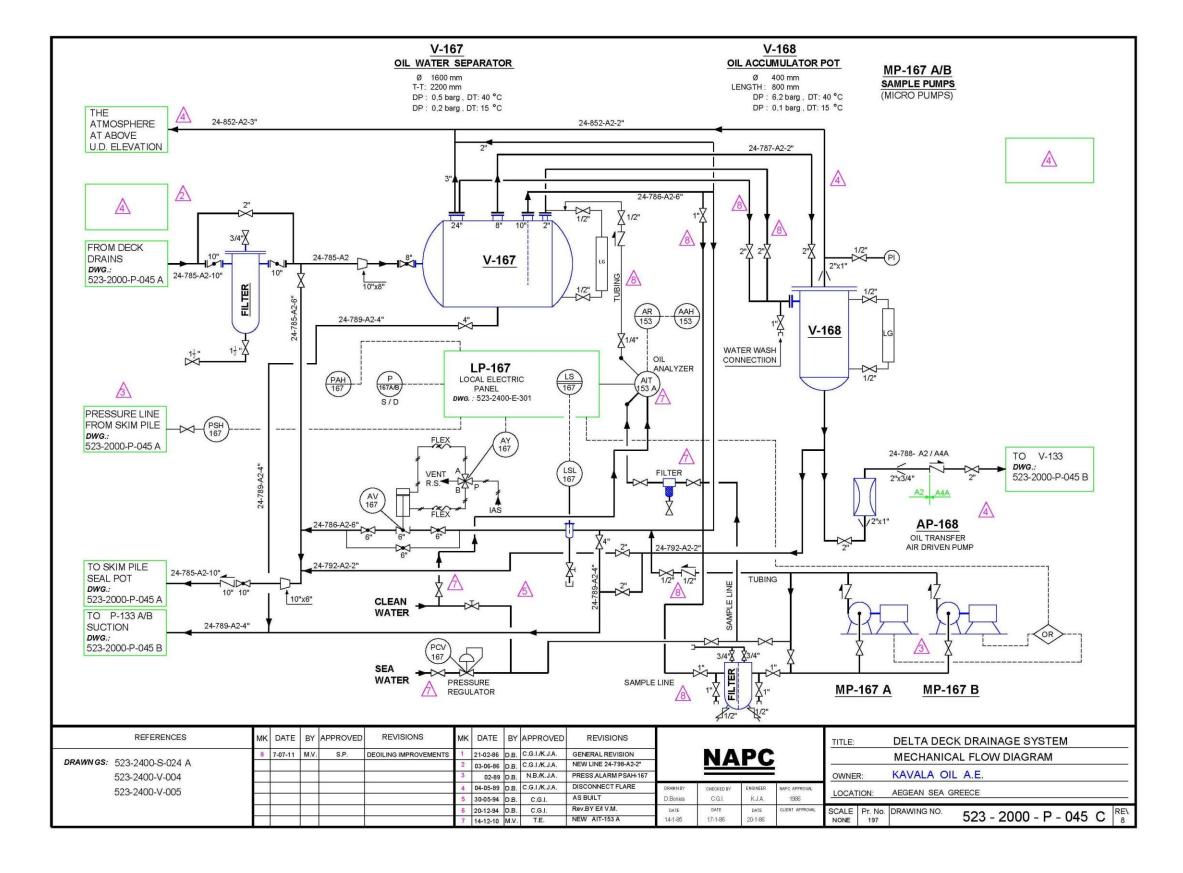






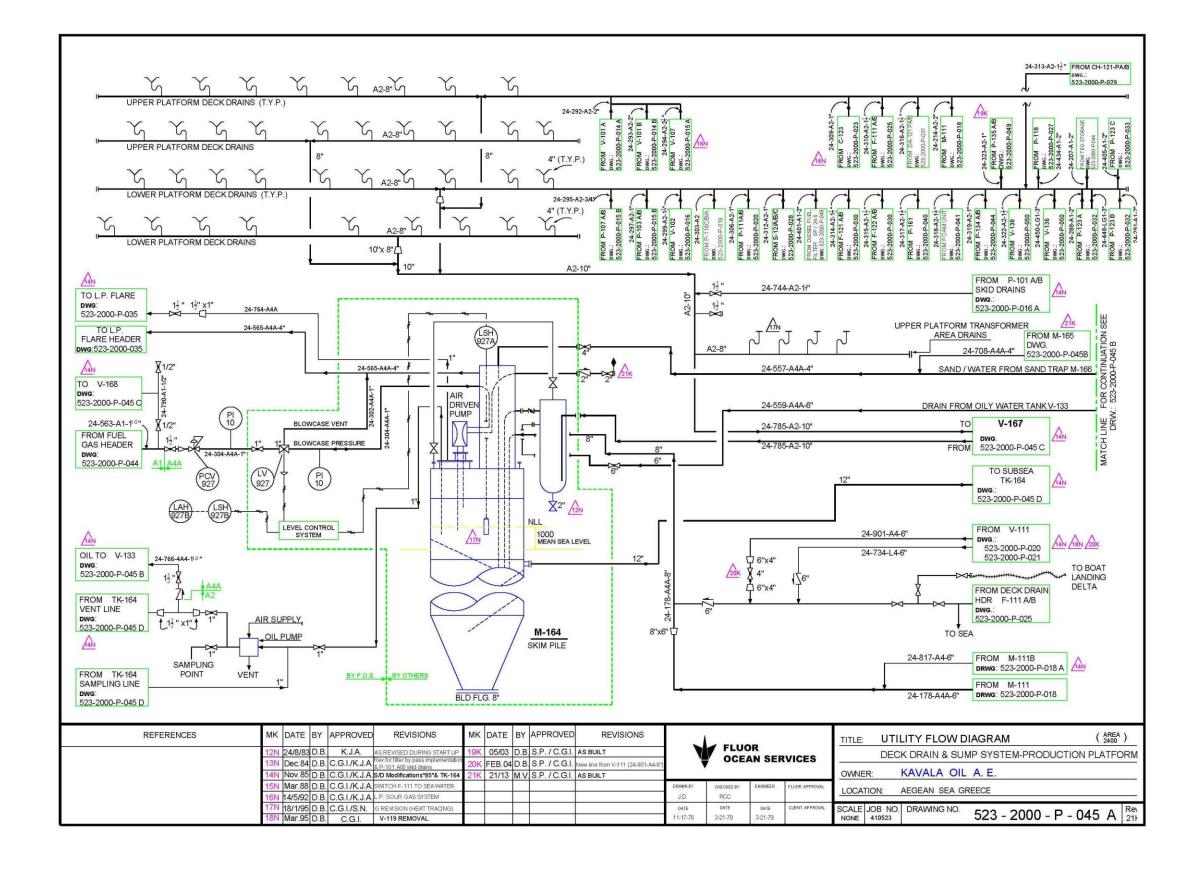






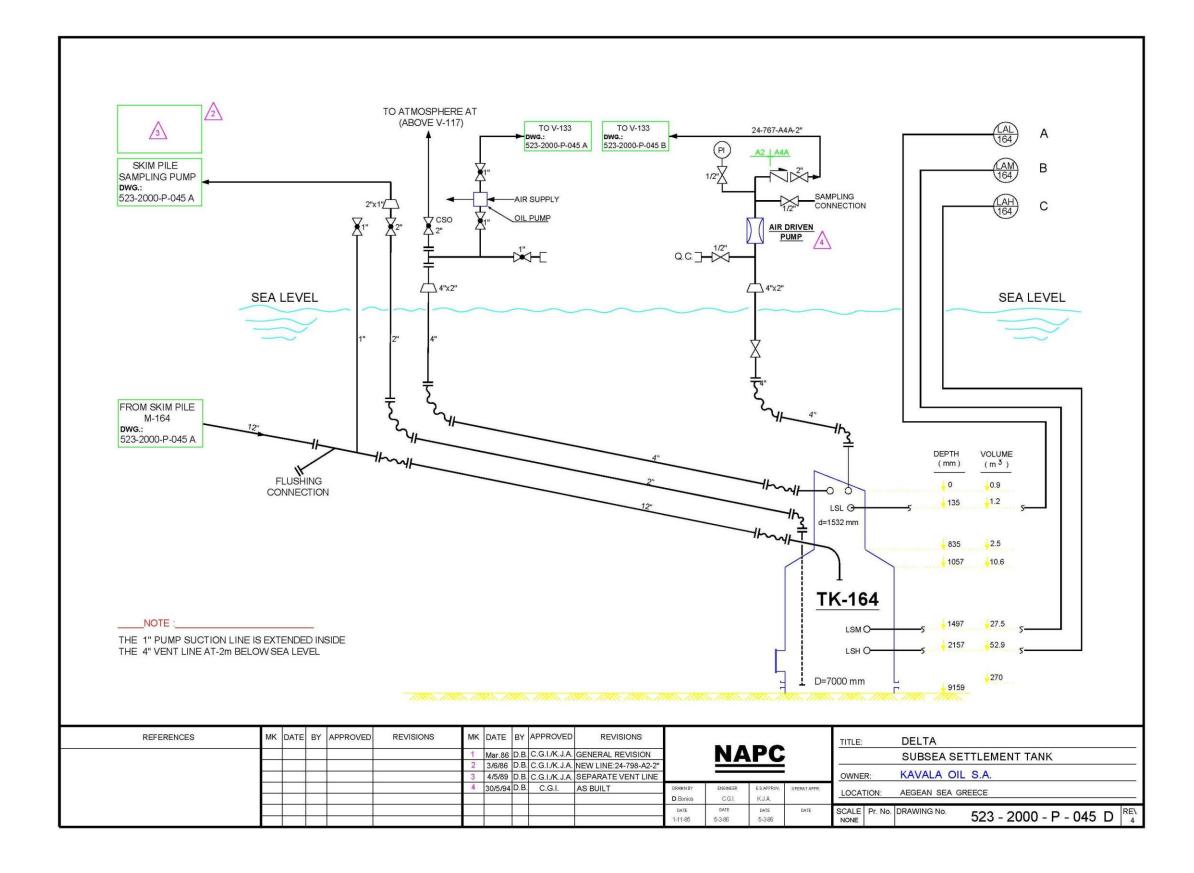














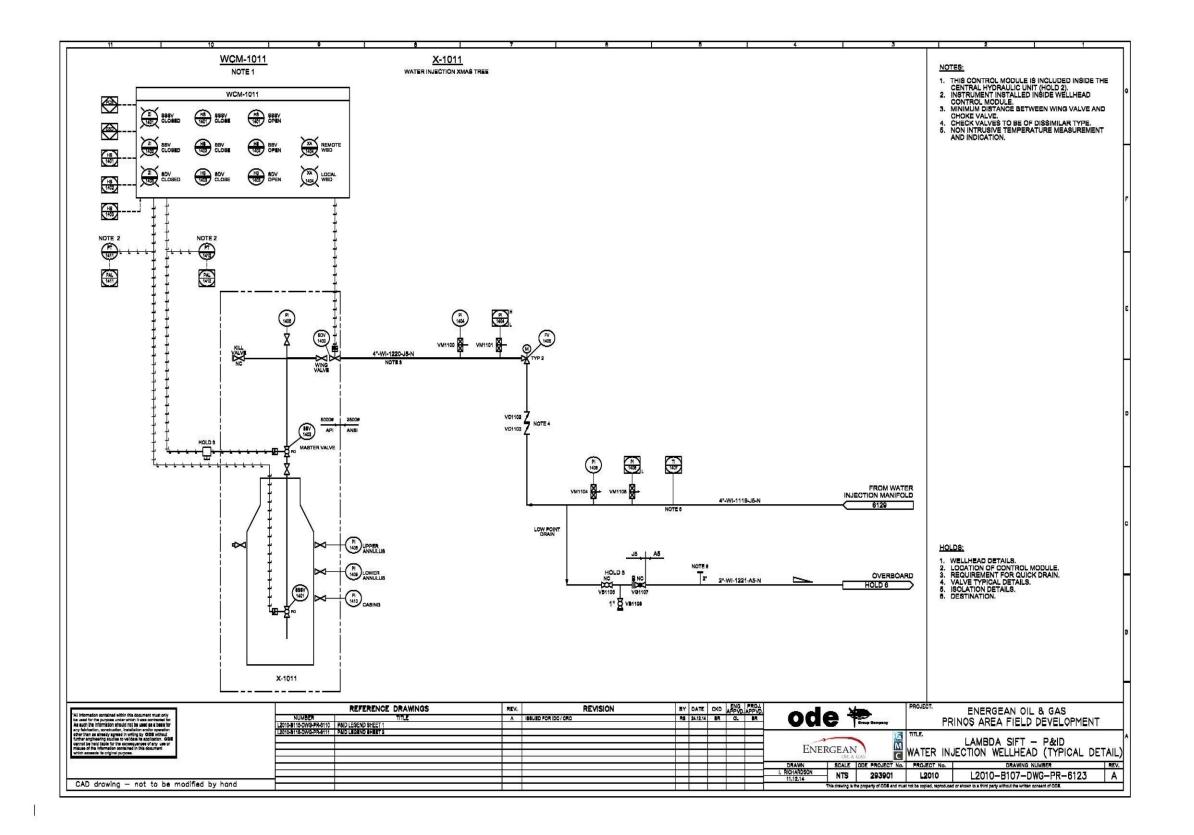




New facilities











LINE TYPES SYMBOLS	10	VALVE SYM	9	1/2	B 7 IDENTIFICATION OF EQUIPMENT	PIPING LINE DESIGNATIONS	5	ABBREVIATIONS	(GENERAL)	2 1 1	\neg
EINE THE GOTTOGES	~	MISCELLANEOUS	01 1888	BUTTERFLY	TYPE DESCRIPTION CODE	3*-PL - 2XXX-H6-X(X)	LETTER DESCRIPTION		DESCRIPTION	NOTES:	
MAIN PROCESS LINES UTILITY LINES	×		-WO :	SPRING LOADED CHECK	A PACKAGED UNITS C CAISSON / STRONG-BACK / PILE HEAT EXCHANGERS F FILTERS	PIPE SIZE (INCHES) PLUID DESIGNATION PLATFORM NUMBER NUMERICAL SEQUENCE PIPING SPEOFICIATION	AF ARRESTOR FLAME ARV AIR RELEABE VALVE BL BATTERY LIMIT CSO/C CAR SEAL OPEN / CLC	PBV	PARALLEL ŠLIDE AŠŠOČIATED WITH VALVE) BAFETY VALVE RBSISTANCE (TYPE) TEMPERATURE DETECTOR REMOTE OPERATED	ELEVATION CHANGES ARE DOWNWARD ONLY. NO POCKETS PERMITTED ANNOTATION "NO POCKETS" MEANS NO LIQUID POCKETS PERMITTED IN	,
SECONDARY SYSTEM LINES	∞	BALL	⋈	SCREW DOWN	L ELECTRICAL M WATER AND WASTE TREATMENT	PIPING SPECIFICATION INSULATION CLASS HEAT TRACED	DRAIN TO DRIP LEG (COLLECTING 8	STRAINER SPECTACLE BLIND	THE LINE. 2. FOR FURTHER EQUIPMENT MODIFIERS REFERENCE 32010-8101-RPT-MG-8003 EQUIPMENT NUMBERING PROCEDURE.	
INSTRUMENT UNDEFINED LINK / ELECTRICAL BIGNAL LINE INSTRUMENT ELECTRICAL LINK	P	FULL-BORE BALL	M	ALVE WITH BLIND	P PUMPS Q FLARE TIP T TANKS	PRODUCT DESIGNATION	FB FULL BORE VALVE FO FAIL CLOSED FG SIGHT FLOW INDICAT	TOR SLP	BAMPLE CONNECTION SPECIAL PIPING ITEM SLEEVE PACKED		
		GLOBE	₩	ALVE WITH MALE PLUG	U EXPENDABLES V PRESSURE VESSEL	BA BREATHING AIR	FO FAIL OPEN FOC FLUSHING OUT CONN GS GAS SUPPLY HC HOSE CONNECTION	NECTION SP	SPADE SAMPLE POINT STRESS RELIEVE TIE-INL POINT		
SIGNAL INSTRUMENT HYDRAULIC SIGNAL	\bowtie	PLUG	DOD)	VALVE WITH FEMALE	X WELL® BECONDARY EQUIPMENT IDENTIFIERS (DRIVERS)	CA ASPHALTENE INHIBITOR CD DEMULSIFIER CI CORROSION INHIBITOR CM METHANOL	HP HIGH PRESSURE HS HAND SWITCH (MANU	IAL) VS	UTILITY CONNECTION VENT CONNECTION WATER SUPPLY		
— 0 — 0 — INSTRUMENT INTERNAL SYSTEM LINK	\bowtie	NEEDLE	A	CHOKE	Ġ ĠEARBÓXEŜ M ELECTRIC MOTORB	CS SCALE INHIBITOR OX SPARE CHEMICAL DC DRAIN - CLOSED	KO DRUM KNOOK OUT DRUM	1075			
— X X INSTRUMENT CAPILLARY TUBING	\vdash	DIAPHRAGM		ANGLE	NOTE 2	DH DRAIN - OPEN GL GAS LIFT HF HYDRAULIC FLUID OC OIL - CRUDE	LC LOCK CLOSE LO LOCK OPEN LP LOW PRESSURE LUB LUBRICATED				,
- FLOW DIRECTION	7	NON-RETURN	व्यवस्य <u>।</u>	MONOBLOCK DÓUBLE BLÓCK &	PLATFORM CODES 1 LAMBDA	CA ABPHALTENE INHIBITOR DEMULISIPER OI CORROSION INHIBITOR OM METHANCI. OX BAPAR CHEMICAL DO DANIN - (LOBED DH DRAIN - (LOBED DH DRAIN - COBED OL DANIN - (LOBED OL - ORLID OC OIL - ORLID OC OIL - ORLID OX WENT TO ATMOSPHERE VENT TO ATMOSPHERE	NC NORMALLY CLOSED NO NORMALLY OPEN				ľ
		METERING VALVE	,	CEED	2 OMICRON 3 PRINOS DELTA	VA VENT TO ATMOSPHERE VT VESSEL TRIM WF WATER - FIREWATER WATER - INJECTION					
	SYMBOL 'NC',	Y CLOSED VALVES AR NORMALLY OPEN VAL	E SHOWN BY A	ANNOTATED		WI WATER - INJECTION WP WATER - POTABLE (PRESH) XO DRILLING CHEMICALS					
INSULATION DESIGNATION	ANNOTATED 8	IYMBOL NO		ITINGS AND FLANG	E SYMBOLS		GENERAL EQUIPMENT SY	YMBOLS		-	
A ACCUSTIC PROTECTION INSULATION C COLD CONSERVATION			6	ل ا	SAFETY SPECIFIC]	
F FIRE PROOFING H HEAT CONSERVATION INSULATION P PERSONNEL PROTECTION	⊢⊢	BLIND FLANGE	(CORROBION E	PONN MONITOR		Ω		\Box		
8 SPECIAL ANTI-CONDENSATION T TRACING	⊢⊪	RING SPACER	(CORROSION P	RÓBE FIRE MONITOR		8		Ц		Ε
W WINTERIBATION N NONE	⊢⊪ -	BPADE BLIND		U 00RR0810N	FDAM PACKAGE FOR MONITOR	CENTRIFUGAL PUMP ROTARY POS DISPLACEMENT	TIVE GEAR PUMP	RECIPROCATING PUMI	P SINGLE HEAD METERING PUMP		
	ہائے	SPECTACLE BLIND	,		→ FIRE HYDRANT (FROST PROOF)		Θ				
	بــاأب	SPECTACLE BLING (CLOSED)		MANWAY/ HAT (BIDE VIEW)	A DELUGE SPRAY		Ī	U			r
VALVE NUMBERING	D	REDUCER (CONCE	NTRIC)	MANWAY/ HAT	OH & SPRINKLER SPRAY NOZZLES	INLINE PUMP VERTICAL PL		BASKET TYPE FILTER	PIG TRAP		
,v a, z ,xxx,	4	REDUCER (ECCEN	TRIC)	INBULATING J	DELUGE VALVE FUBIBLE PLUG	INCINE FUMP YENTICAL PL	IMP CANDIEN FUMP				
VALVE TYPE	D	OAP	(SAND DETECT	OR HOSE REEL			\cap	DEMISTER		D
PLATFORM GODE VALVE NUMBER	RB	REMOVABLE SPOO	× [/ FILTER	FOAM PACKAGE FOR FIXED BYSTEM	(M) T	Z ()		VANE TYPE		
	Ϋ́	'Y'-TYPE STRAINE	·	FLAME ARRES	TOR FETO FIRE ZONE No.	ELECTRIC MOTOR ELECTRIC HEATER	HORIZONTAL VESSEL	VERTICAL VESSEL	VESSEL INTERNALS		
	\Box	BARRED TEE	\leftarrow	FLOW STRAIG	TENER FIRE ZONE BOUNDARY	<u> </u>					-
VALVE TYPES VA GATE VALVE	>	TEMPORARY FILTE	ER (BEAL LEG (BIP	DELUGE BKID						
VB BALL VALVE VC CHECK VALVE / NON-RETURN VALVE VD DIAPHRAM VALVE	C	ATMOSPHERIC VE	NT		002 BKID						
VF BUTTERFLY VALVE VG GLÖBE VALVE VK CHOKE / ANGLE VALVE	· ·		· =	CLAMP ON SE	ABOR 📥 INJECTION QUILL						
VM MOND BLOCK DOUBLE BLOCK AND BLEED VALVE	Ĭ	OPEN DRAINS)		SPECIAL PIPIN	G ITEM	WELL				_	
VN NEEDLE VALVE VP PLUG VALVE VT METERING VALVE	≈≈	EXPANSION BELLO	owa (TP TIE-IN POINT			REVISION / CONSTRUCT / D	-			
VV VAČUUM VALVE	-=	HOSE CONNECTIO					(IBION CLOUD				-
		CLASS OR ZONE L	IMIT	BIRD GRID SAMPLE CONN		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Porticipated Resolution of				
	ļ	INSULATION / TRACING LIMITS		SAMPLE CONN VORTEX BREA		HOLDS					
		OONT'!	RROW			HOLDS HOLDS	.DB CLOUD				
		CONT'	N DRG.	LINE SLOPE (S	E NOTE 1)	~~ ~~					
	<u> </u>	REF. A (DUAL	FLOW)	WATER TRAP		OONSTRUCT	777		RESPONSIBILTY		
						CALAS BONSTRUCT	DESTRUCT	1.50	BOUNDARY		-
7. IA		-					Suc 1884	MT.	- I may	DECT. ENERGEAN OU A CAR	_
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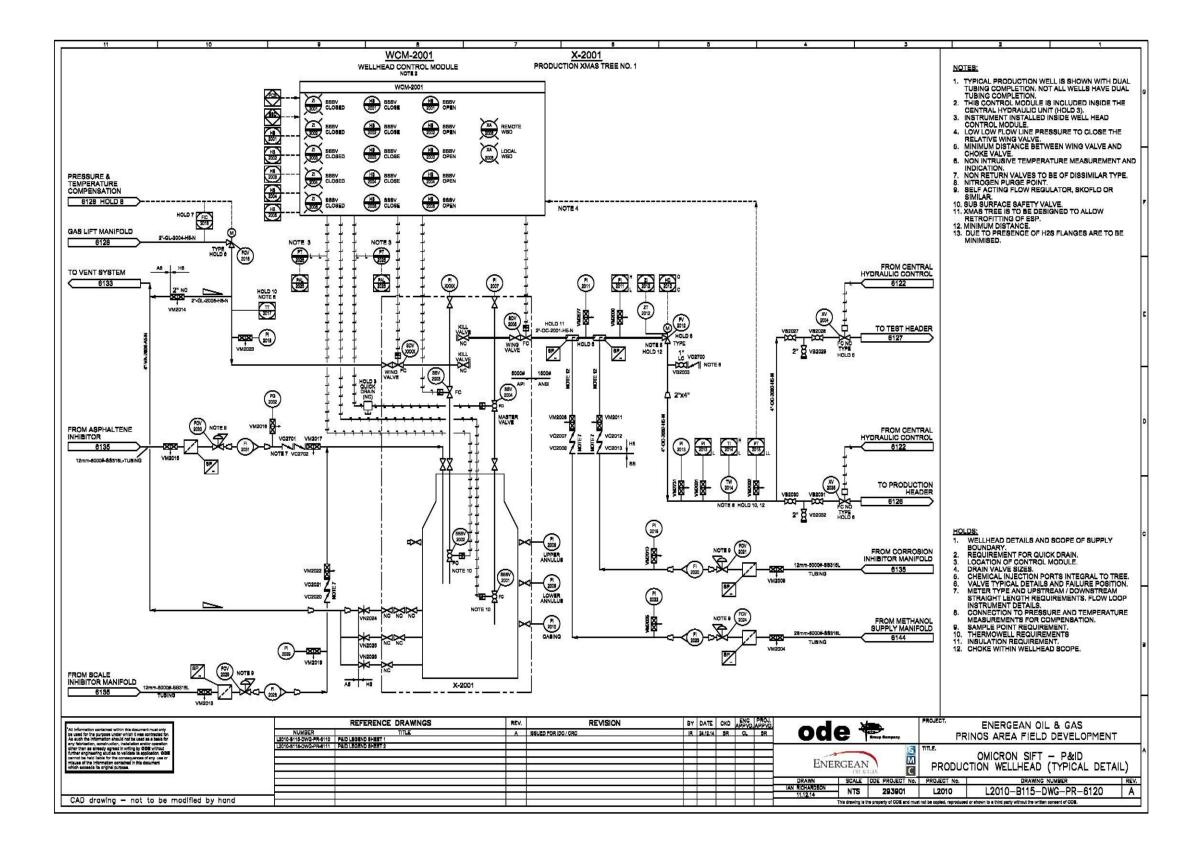




11 10		9 INSTRUMENT SYMBOLS		7	7 8 5		5	4 3 2 1 INSTRUMENT NUMBERING		
LOCAL & PANEL MOUNTED INSTRUMENTS			VALVES	VALVES		VALVE ACTUATORS		NE FLOW	1st field and field NOTES:	
PT DISCRETE INSTRUMENT LOCALLY MOUNTED INSTRUMENT		PROGRAMMABLE LOGIO CO LOGALLY MOUNTED	NTROL A	RELIEF OR SAFETY VALV		HAND OPERATED	<u>⊢⊚</u> ⊣	ELECTRO MAGNETIC FLOWMETER	4 ones 5 ones 1 ones 14 ones 14 ones 15 ones 1	g
DISCRETE INSTRUMENT PANEL MOUNTED PRIMARY LOCATION		PROGRAMMABLE LOGIC CO PANEL MOUNTED PRIMARY LOGATION		VACUUM RELIEF VALVE		CONTROL (GENERAL)	ب	ÖRIFIČE PLATE QUIČK CHANGE FITTING	AND FIELD: INSTRUMENT LOOP, UP TO A NUMERIC, I ALDHA CHARACTER FIRST NUMERIC CHARACTER REPRESENTS AUTOFON NUMERIC RICHT THREE NUMERIC CHARACTERS ARE NUMBERS FROM 001 TO 498. NUMBERS 500-499 ARE FOR PAGAGE VENDORS. ALPHA CHARACTER TO DIFFERENTIATE SETVERN SEVERAL INSTRUMENTS OR FUNCTIONS WITH SAME FIELD CODE (560 PETT RANGS VALVES).	
DISCRETE INSTRUMENT PANEL MOUNTED ADMIL ARY LOCATION		PROGRAMMABLE LOGIC CO PANEL MOUNTED AUXILIARY LOGATION	NTROL 1	PRESBURE & VACUUM RELIEF VALVE	₽ =-	HYDRAULIO		PLOW BLEMENT ORIFICE PLANGE ROTAMETER	FIRE & GAS INSTRUMENTS: SECOND NUMBER IS FIRE ZONE AND FOURTH NUMBER IS FOR ADDRESSABLE LOOPS. WITH NUMERIC DUPLICATIONSUFFIX IN FLACE OF ALARM SUFFIX.	
BHARED DIBPLAY, BHARED CONTROL LOGALLY MOUNTED		SHARED DISPLAY, SHARED NORMALLY INACCESSIBLE	DONTROL 47		₽	SOLENOID (WITH MANUAL RESET) FAIL SAFE CLOSED HYDRAULIO ACTUATOR	<u>+</u> ⊠→	VORTEX FLOWMETER	a.g. PI 2000, GIVING RIBE TO PALL 2000, IS REPRESENTED AS: B.G. PT 2000A, IS REPRESENTED AS: (FT 2000A)	r
SHARED DISPLAY, SHARED CONTROL PANEL MOUNTED PRIMARY LOCATION		PROGRAMMABLE LOGIC CO NORMALLY INACCESSIBLE	NTROL -	PRESSURE REDUCING REGULATOR (SELF CONTAINED)	ω	ELECTRIC MOTOR	, _ ,	POSITIVE DISPLACEMENT METER	ABBREVIATIONS LITTER PROGRES INSTRUMENT OR PUNCTION DESCRIPTION	
SHARED DISPLAY, SHARED CONTROL PANEL MOUNTED AUXILIARY LOCATION	XX	COMPUTER FUNCTION NORMALLY INACCESSIBLE	سككم	BACK PRESSURE REGULATOR (BELF CONTAINED)	-\^-	INTERLOOK	₽±±	FLOW ELEMENT PITOT TUBE OR PITOT • VENTURI TUBE	AAV ANULUS ACCESS VALVE ACV ANULUS CIRCULATION VALVE ANV ANULUS MASTER VALVE ABV ANULUS WASTER VALVE ABV ANULUS WASTER VALVE	H
OCMPUTER FUNCTION LOCALLY MOUNTED	(001A) (001B)	INSTRUMENT SHARING COMMON HOUSING	⊢	SOLENOID VALVE (WITH MANUAL RESET)	MORE THAN ON DENOTED BY A	IGNALS ARE INPUT TO NE SYSTEM - THESE ARE ISINGLE CIRCLE AND THE	⊷⊞⊷ ⊷⊞⊷	PLOW ELEMENT VENTURI OR NOZZLE PLOW ELEMENT - TURBINE	AWY AND IN LANGUISTON VALVE ON CHARLOL INJECTION VALVE DHET DOWN HOLE PRESENTE & TEMPERATURE DHEY DOWN HOLE PRESENTE & TEMPERATURE DHEY DOWN HOLE PRESENTE & TEMPERATURE FOR RESTRICTION ORDINGE FOR RESTRICTION ORDINGE	
OOMPUTER FUNCTION WAS PRIMARY LOCATION	PL	PILOT LIGHT			LETTERS OF EA	AÖH SYSTEM INVÖLVED.	<u>-</u> ®-	MASS FLOWMETER	HP HIGH PREBBURE LP LOW PREBBURE POV PRODUCTION CHOICE VALVE PHOND TO THE PRODUCTION CHOICE VALVE PHOND TO THE PRODUCTION CHOICE VALVE POT PREBBURE A TEMPERATURE TRANSDUCER PHY PRODUCTION WIND VALVE BDV BHUTDOWN VALVE BDV BULLDIO DEPRATED VALVE 855V BULBURYAGE SAPETY VALVE 855V BULBURYAGE SAPETY VALVE 855V CONSTRUCTION FOR THE PRODUCER VALVE 855V CONSTRUCTION VALV	
COMPUTER FUNCTION XXX PAREL MOUNTED AUXILIARY LOCATION							, ⊟ ,	ULTRASONIC FLOWMETER	BDV BHITTOWN VALVE BOV BOLENIO OPERATED VALVE 655V BUBSURVACE SAPETY VALVE 88V BURSURVACE SAPETY VALVE XOV OROSSOVER VALVE	H
IDENTIFICATION TABLE AN	ID COMBINATION TION LETTER IN SECO									
LETTER 1ST LETTER MEASURED OR INITIATING VARIABLE MODIFIER RE		CERDING LETTERS CTION OUTPUT FUNCTION	MODIFIER							D
B BURNER.COMBUSTION C CAMERA D SPECIFIC GRAVITY, DENSITY DIFFERENTAL		CONTROL								
F FLOW RATE RATIO (FRACTION)	ENBOR, PRIMARY ELEN									Н
H HAND	IDIĆATE		нідн							
K TIME, TIME BCHEDULE	фнт	CONTROL BYATION	LOW						COMPUTER RELAY SYMBOLS	С
M PREFIX TO INITIATING VARIABLE)	SER'S CHOICE	USER'S CHOICE	INTERMEDIATE						∑ ADD SQUARE ROOT	
	RIFICE, RESTRICTION		CHOICE						☐ DIFFERENCE	
	OINT (TEST) CONNECT OTALISE, INTEGRATE	ION							± BIAB	Н
R RADIATION, FIRE RE	ECORD								DIVIDE	
5 SPEED, FREQUENCY SAFETY T TEMPERATURE		5WITCH TRANSMIT							X MULTIPLY	
U MULTIVARIABLE MI	ULTIPUNCTION	MULTIFUNCTION	MULTIFUNCTION						M BOOSTER	.
V VIBRATION, MECHANICAL ANALYSIS W WEIGHT, FORCE W	/ELL	VALVE, DAMPER, LOUVRE								
	NOLABBIFIED	UNCLASSIFIED	UNCLASSIFIED							
Y STATE, EVENT, PRESENCE YAXIS		RELAY, COMPUTE, CONVERT DRIVER, ACTUATOR	1							Ц
Z POSITION, DIMENSION Z AXIS THE	VALID FOR BUBBEQU	DRIVER ACTIVATOR UNCLASSIFIED FINA CONTROL ELEMENT ENT POSITIONS.			355	*		85 85 15	2 2000/20	
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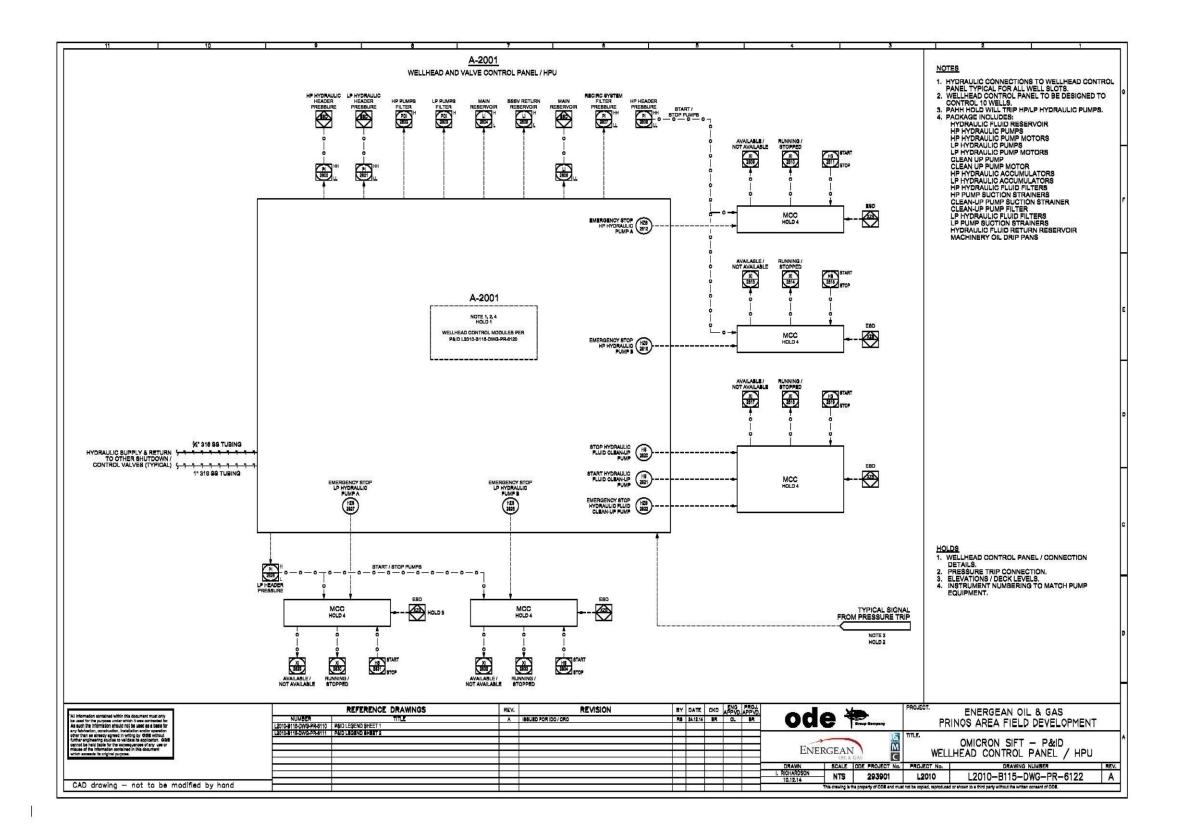






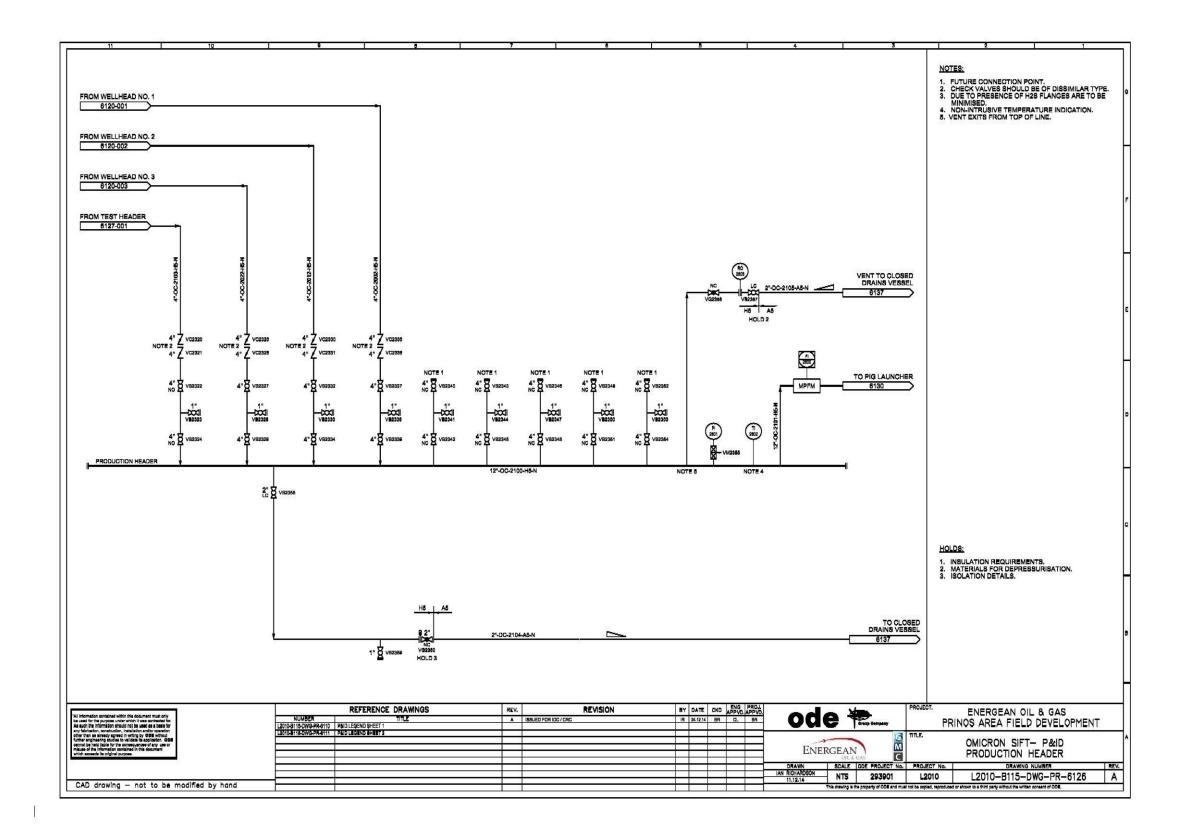






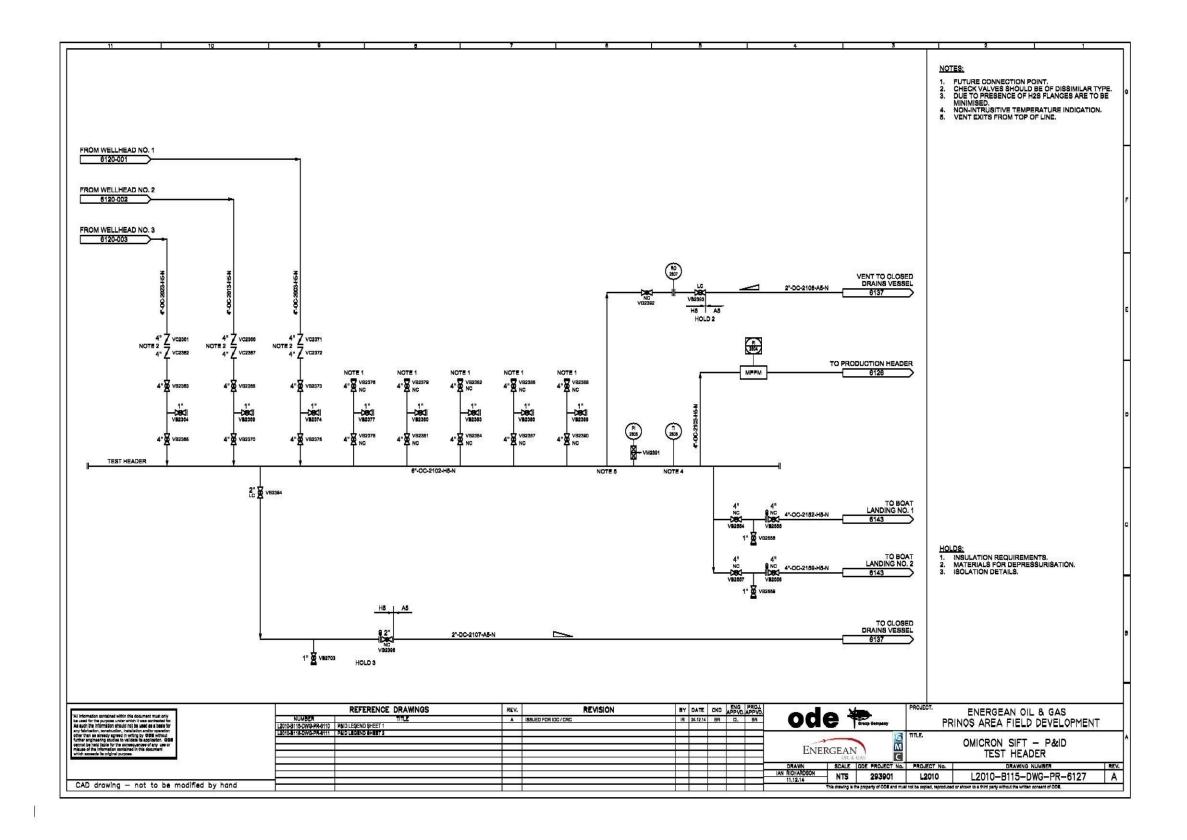






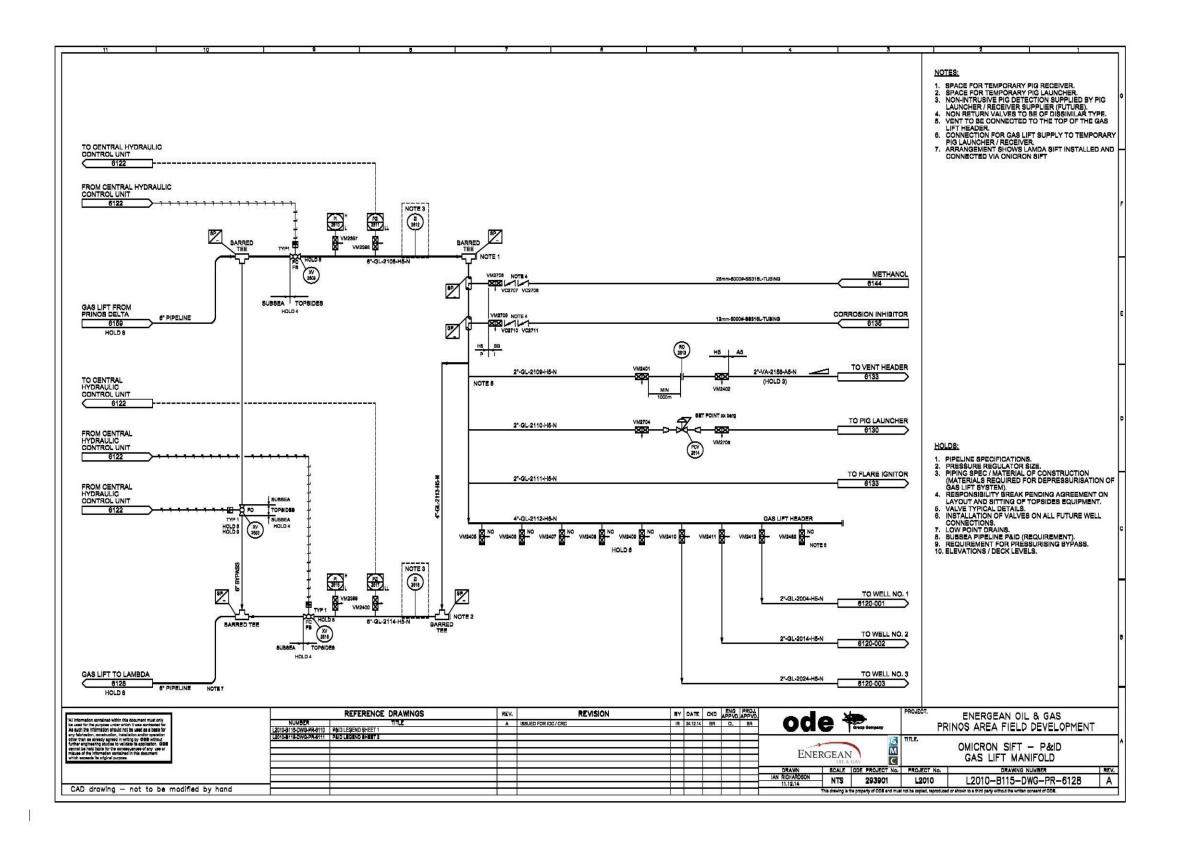






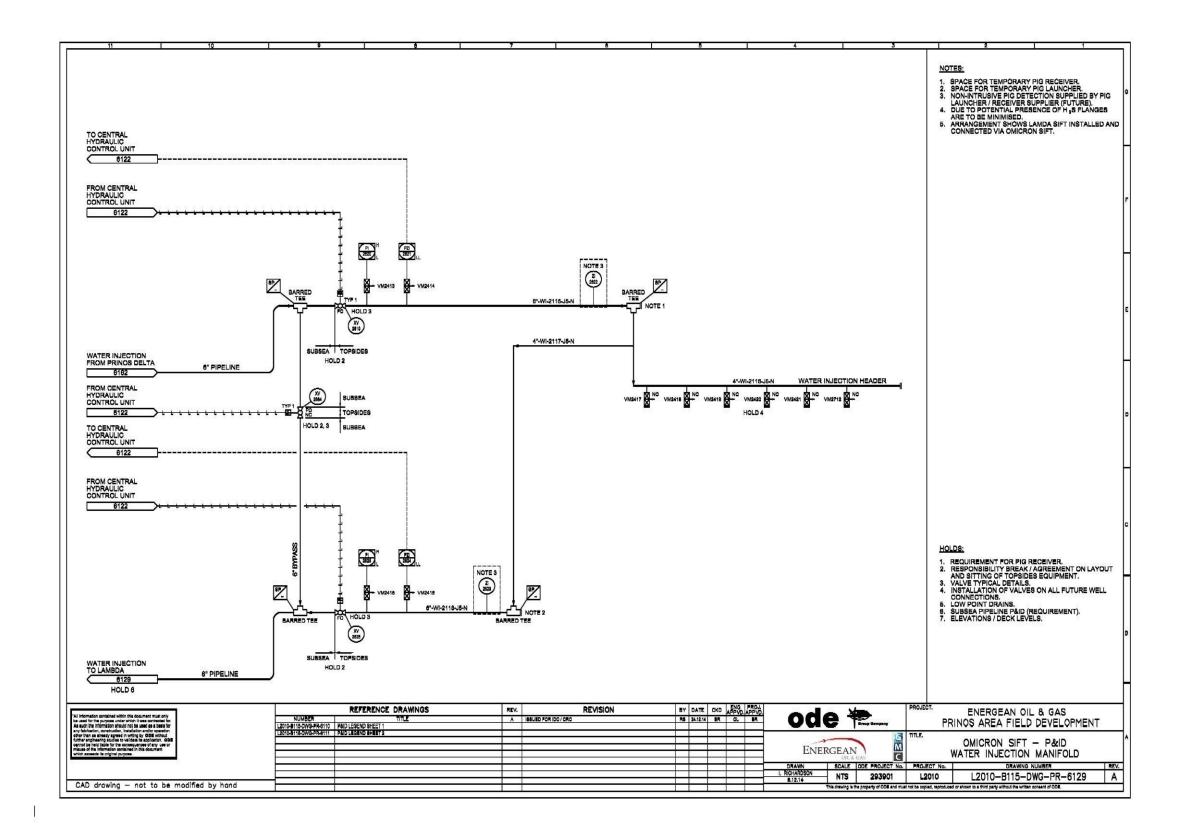






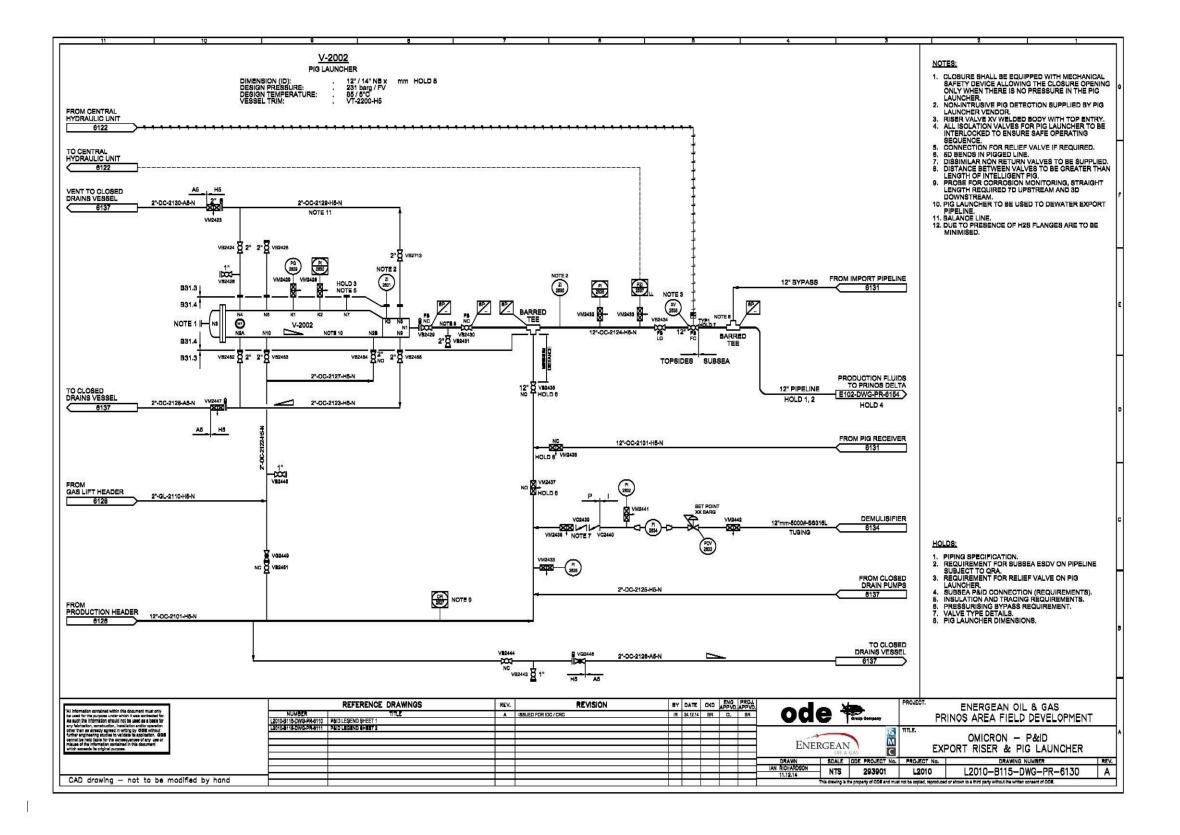






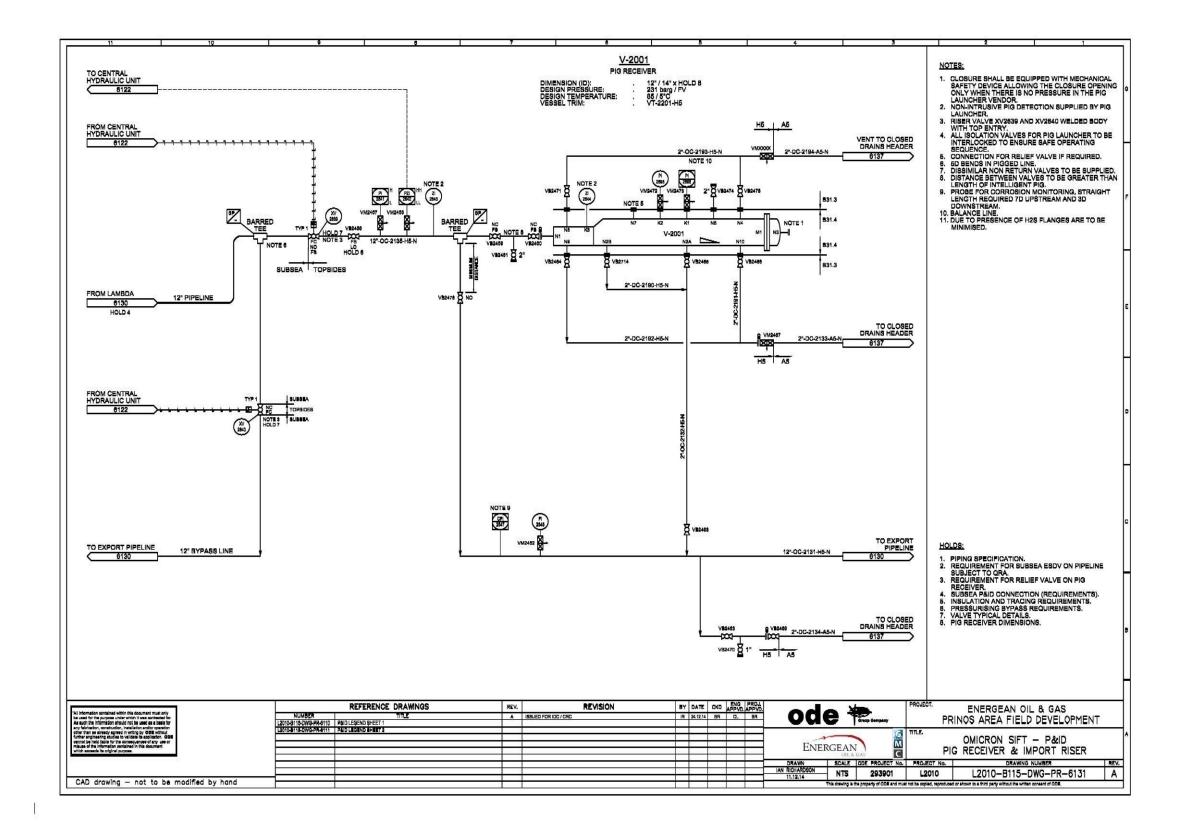






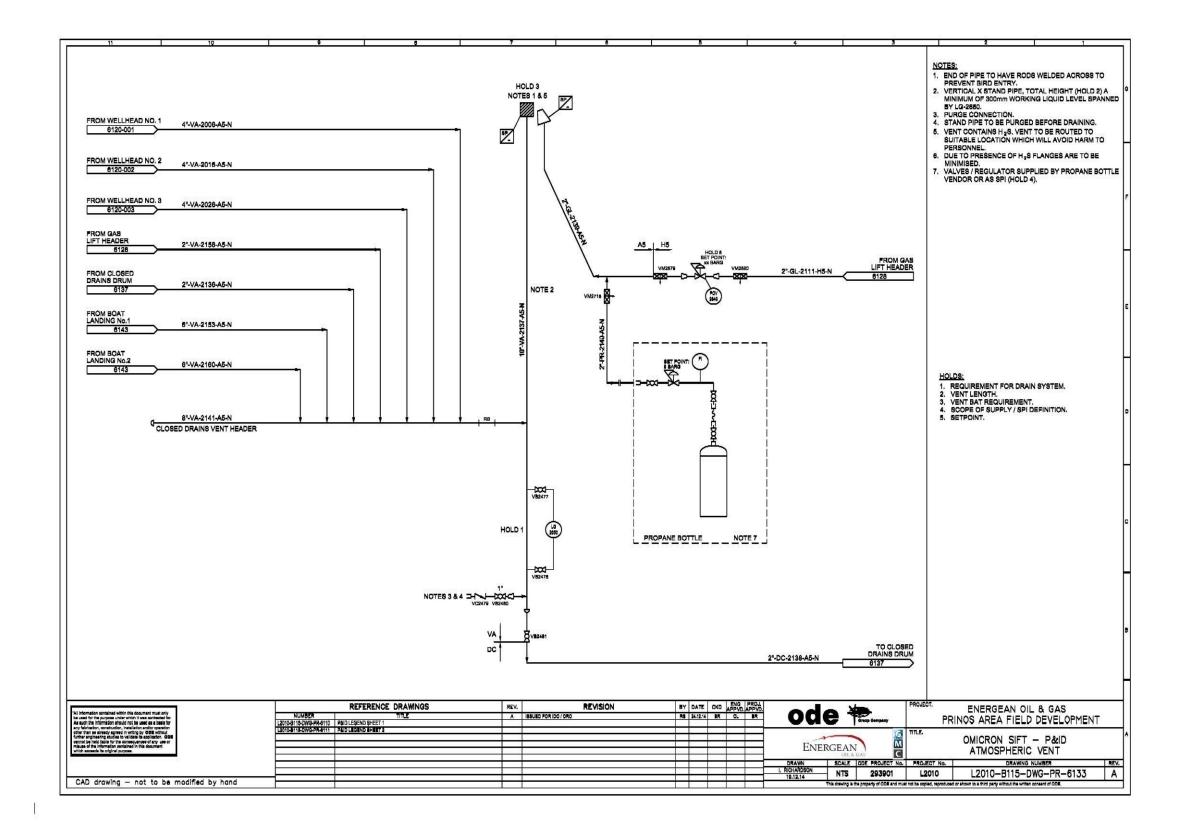






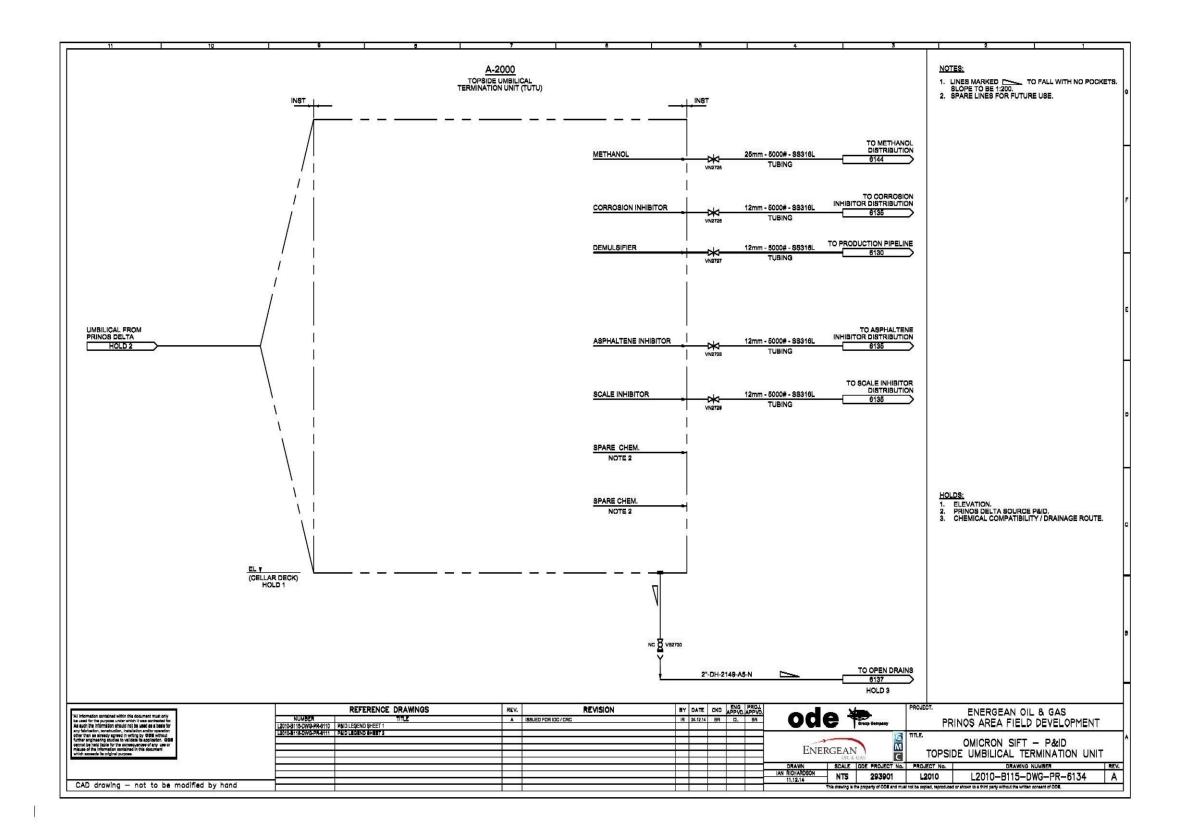






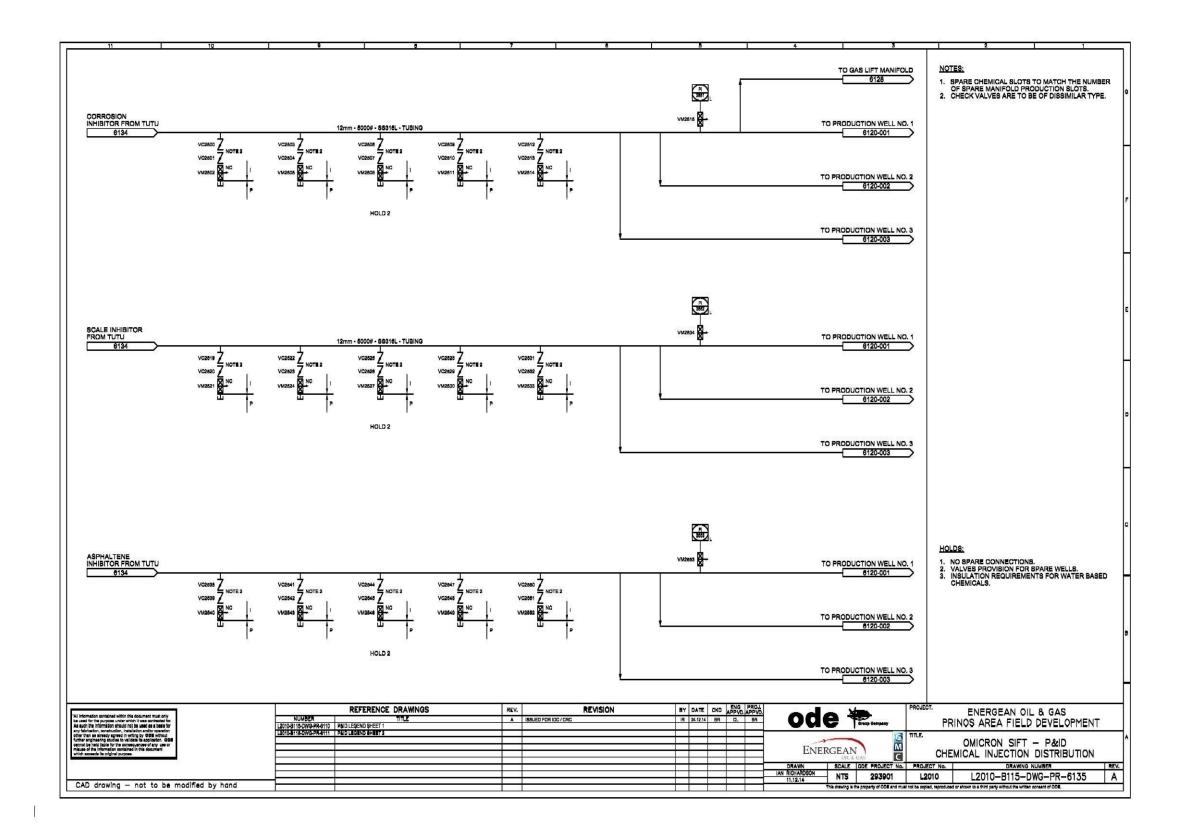






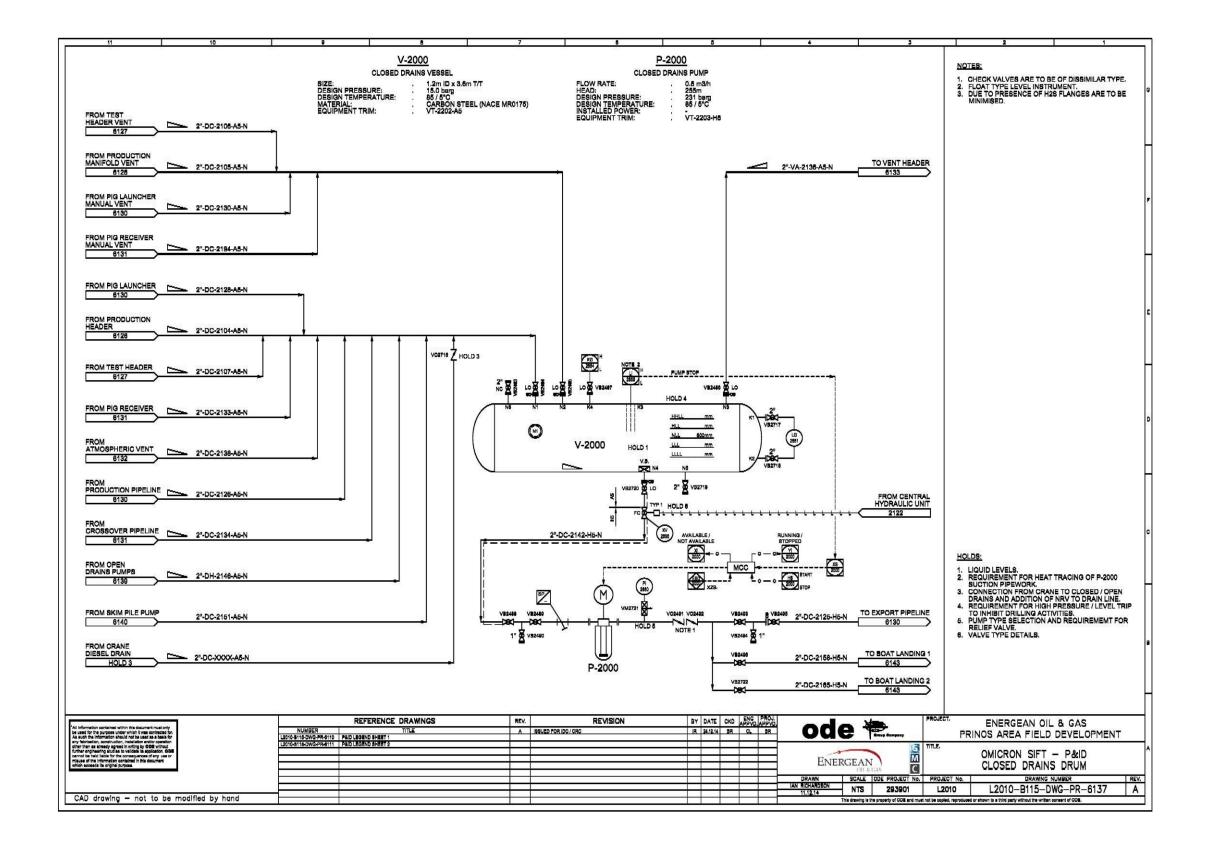






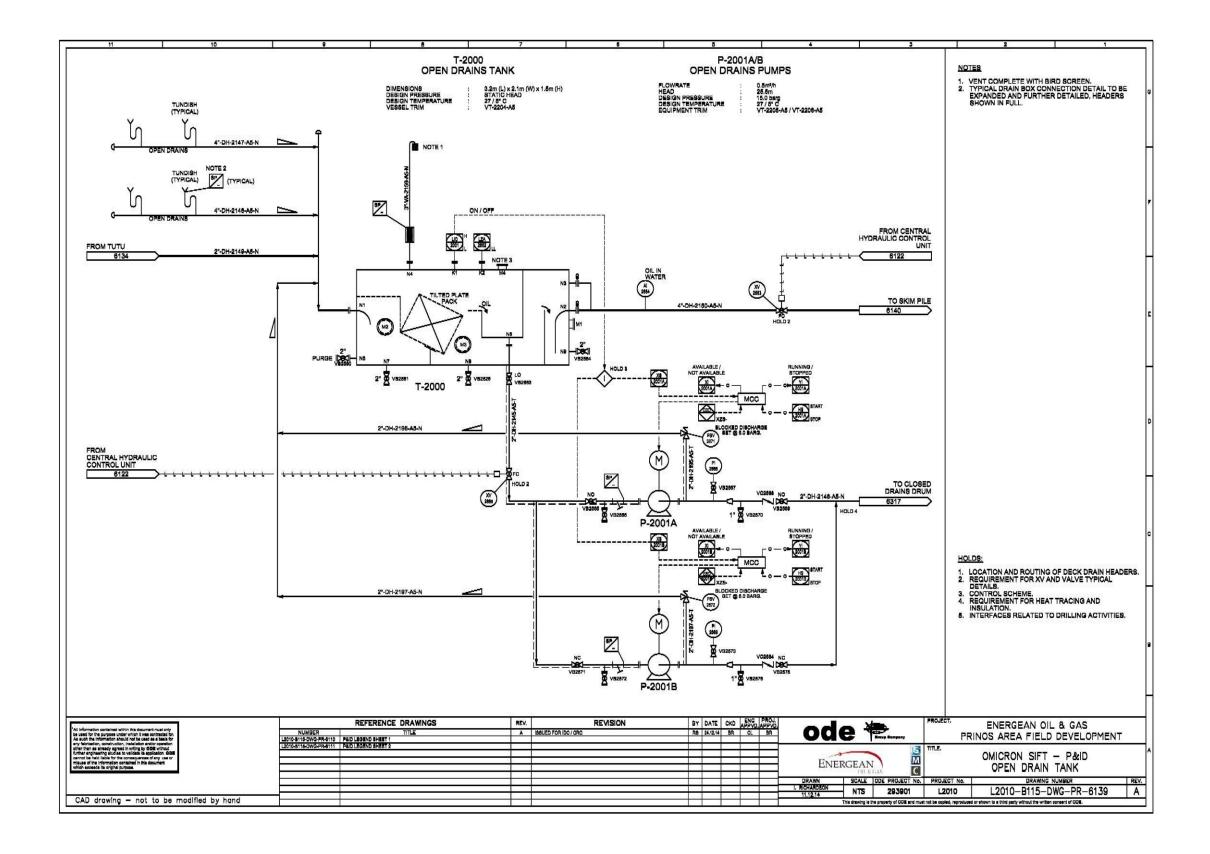






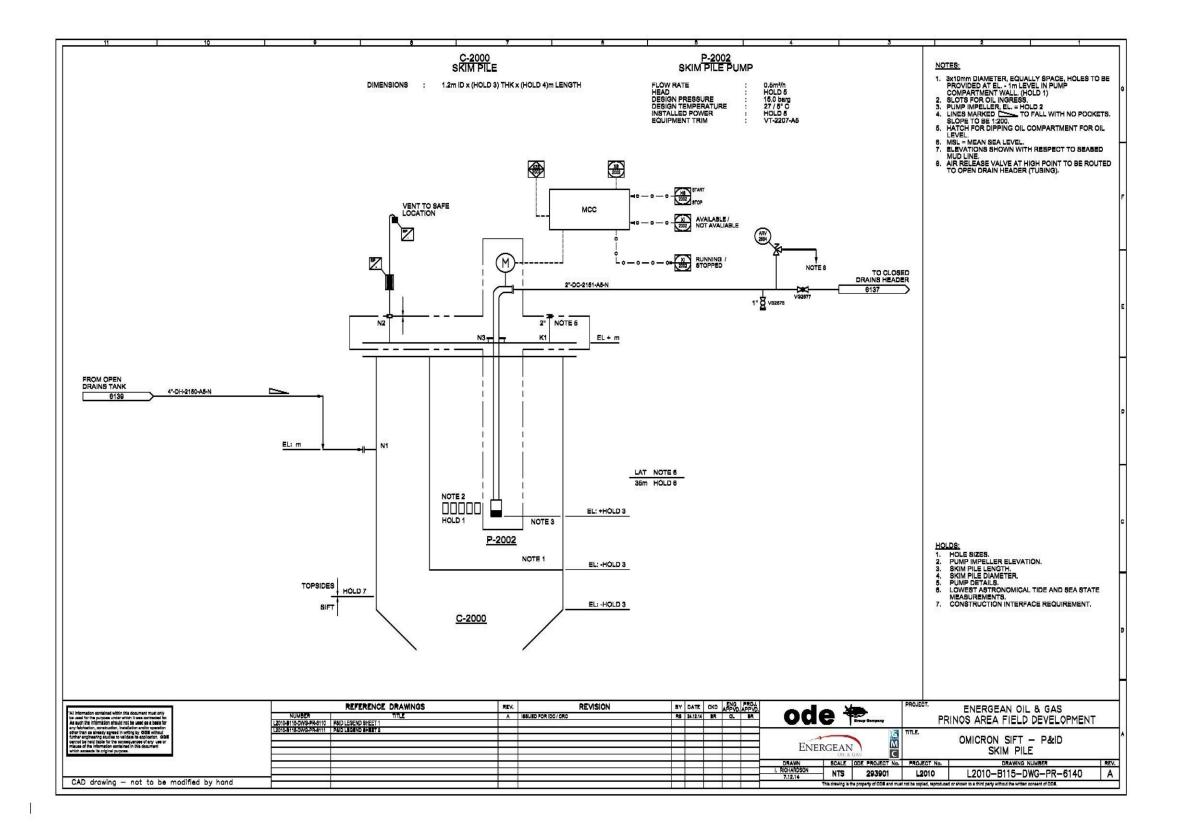








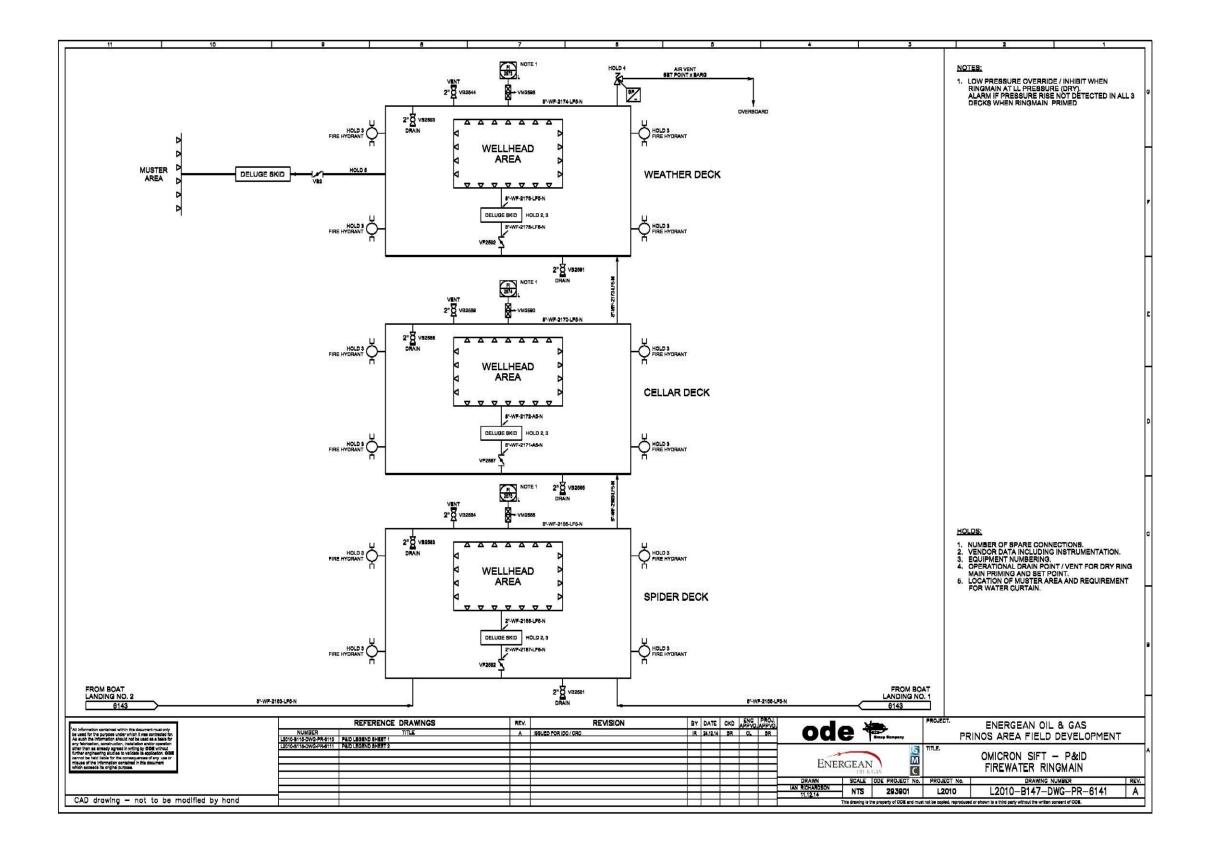






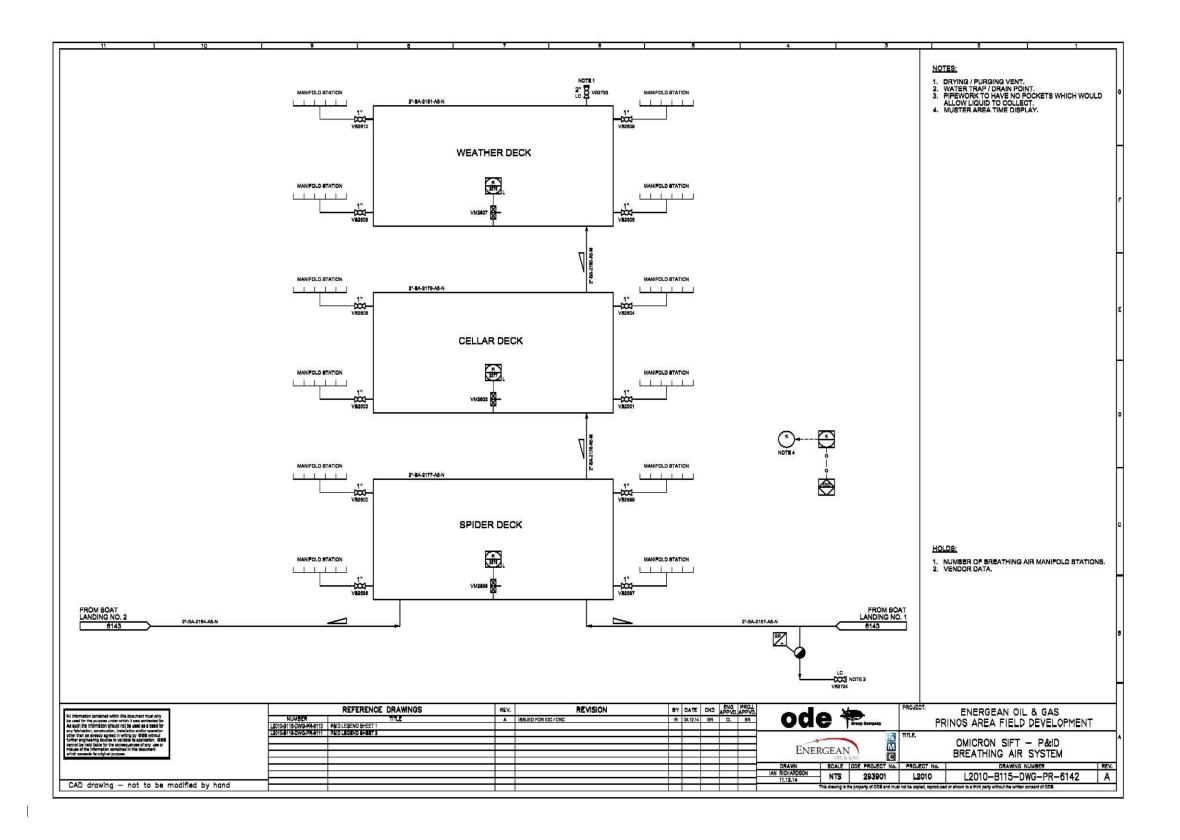
MAPS & DRAWINGS - PROCESS & INSTRUMENTATION DIAGRAMS - PROCESS FLOW DIAGRAMS





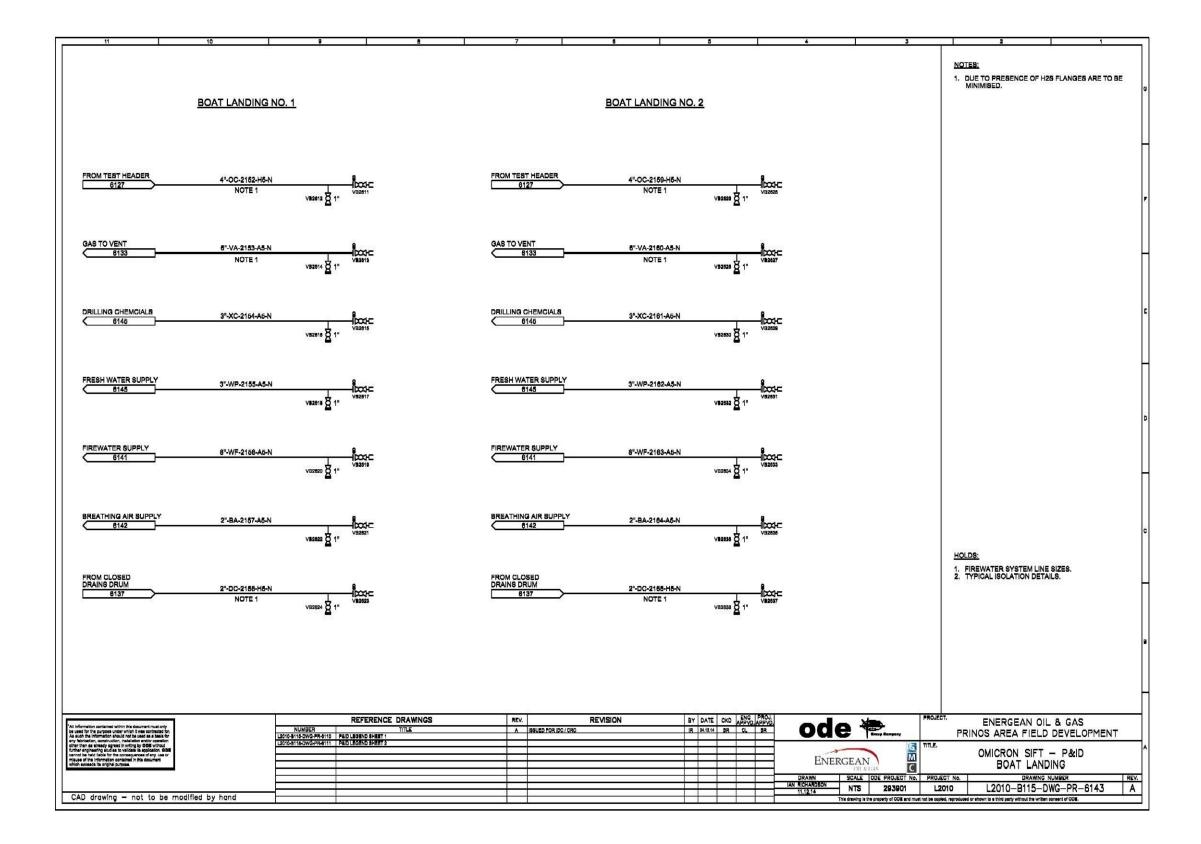






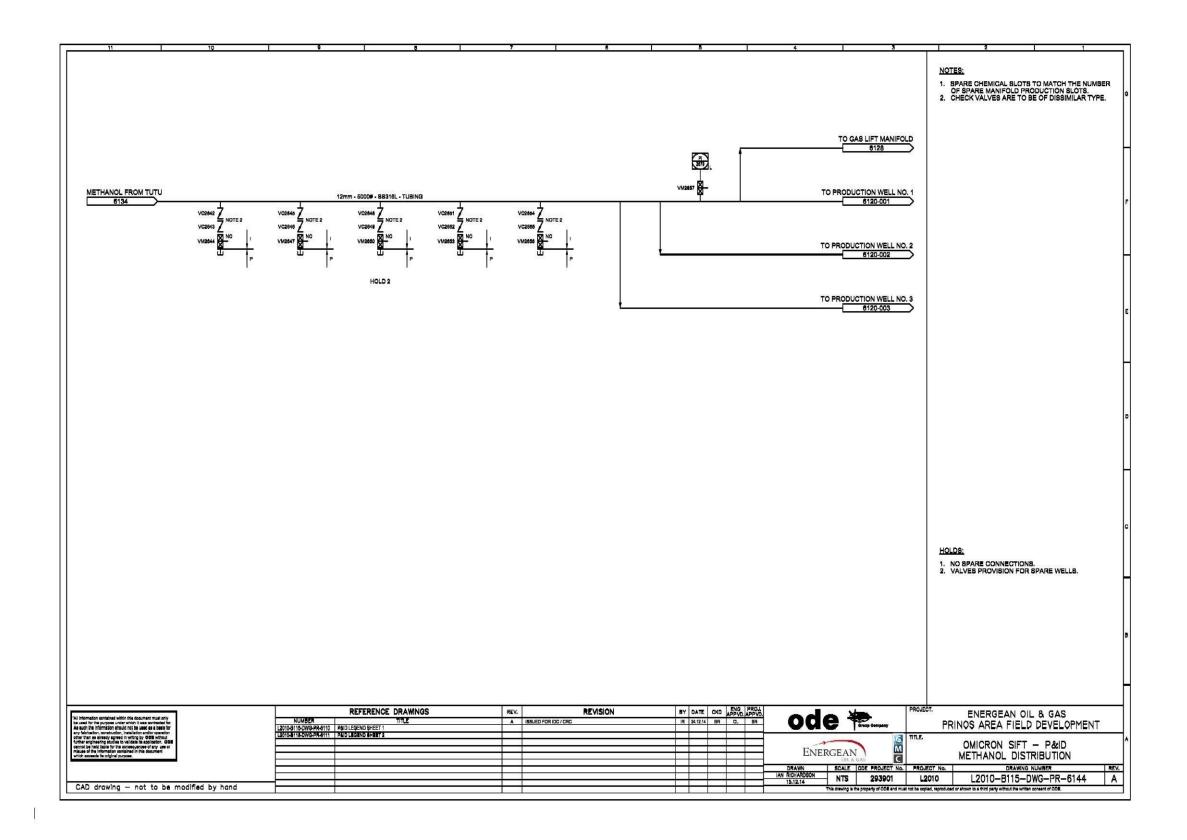






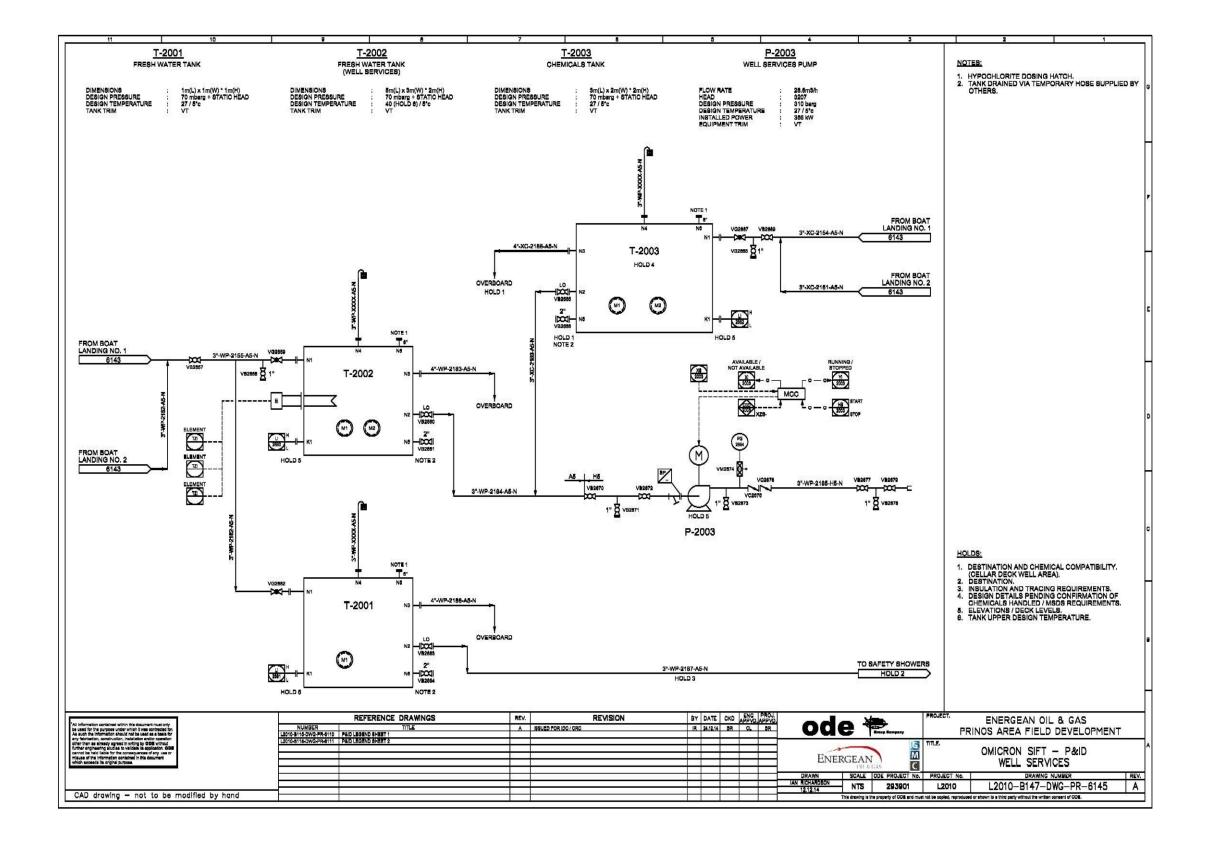
















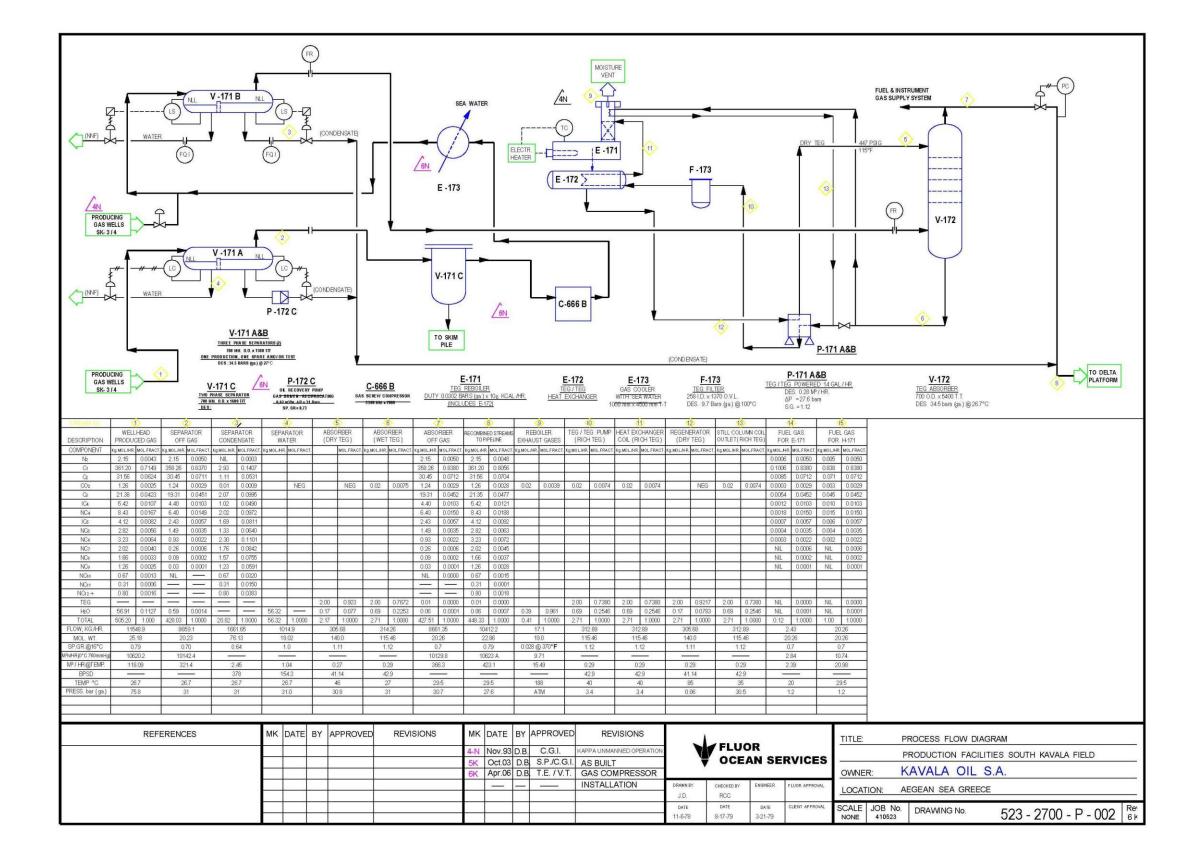


Process Flow Diagrams (PFDs)

Existing facilities

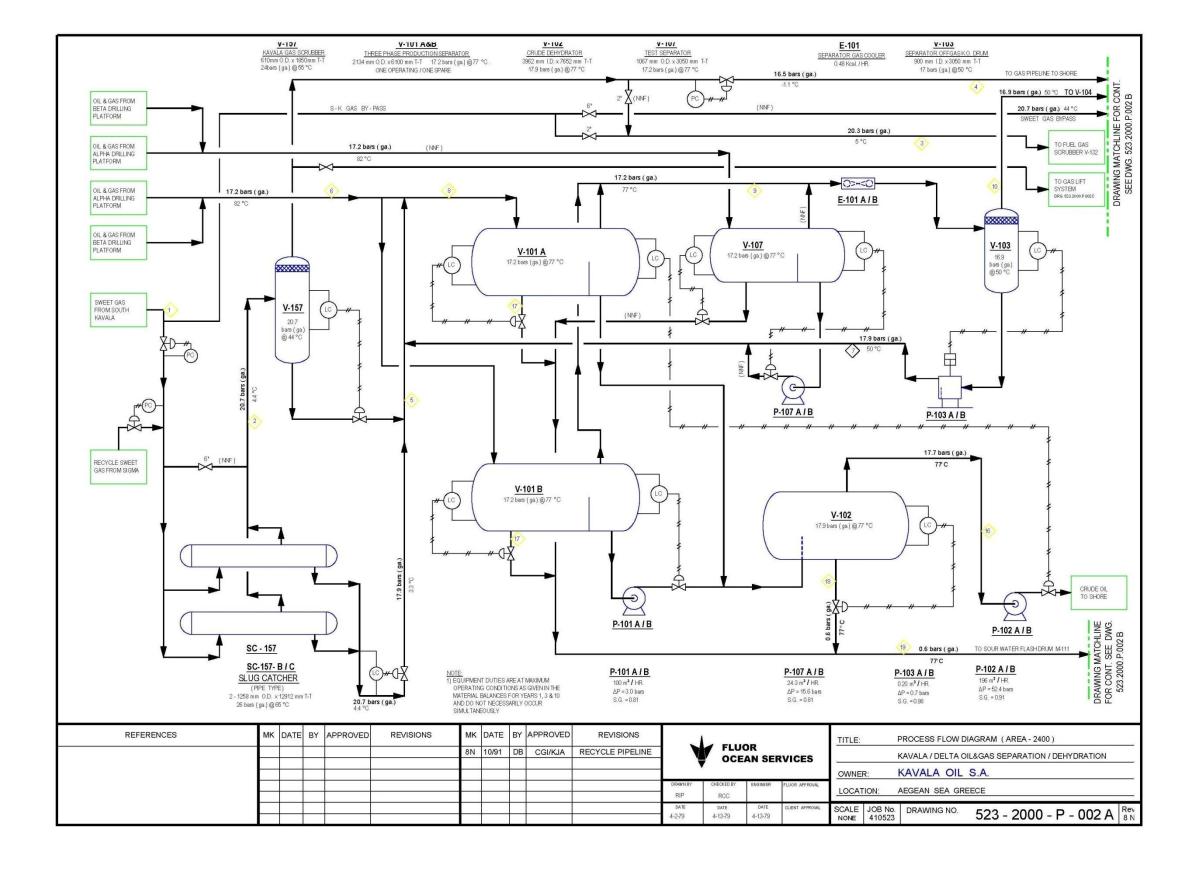






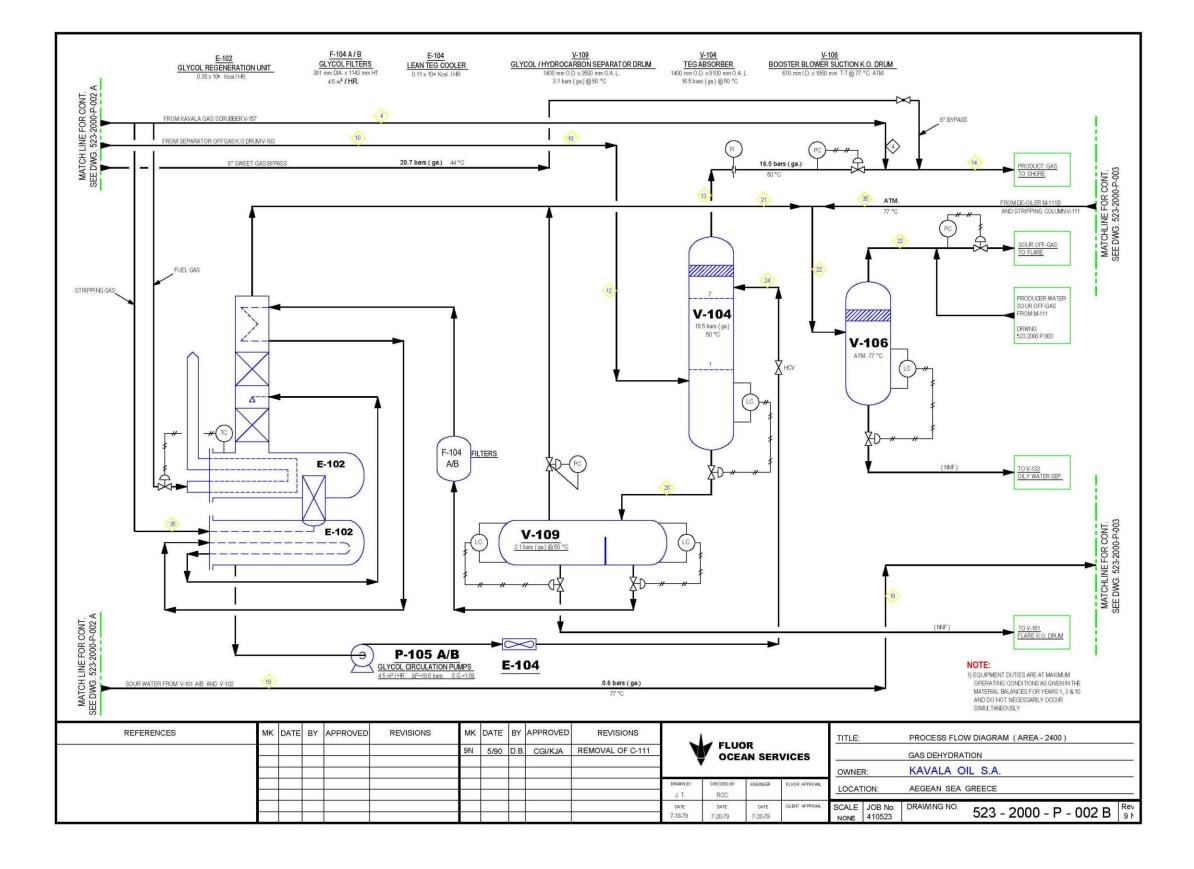






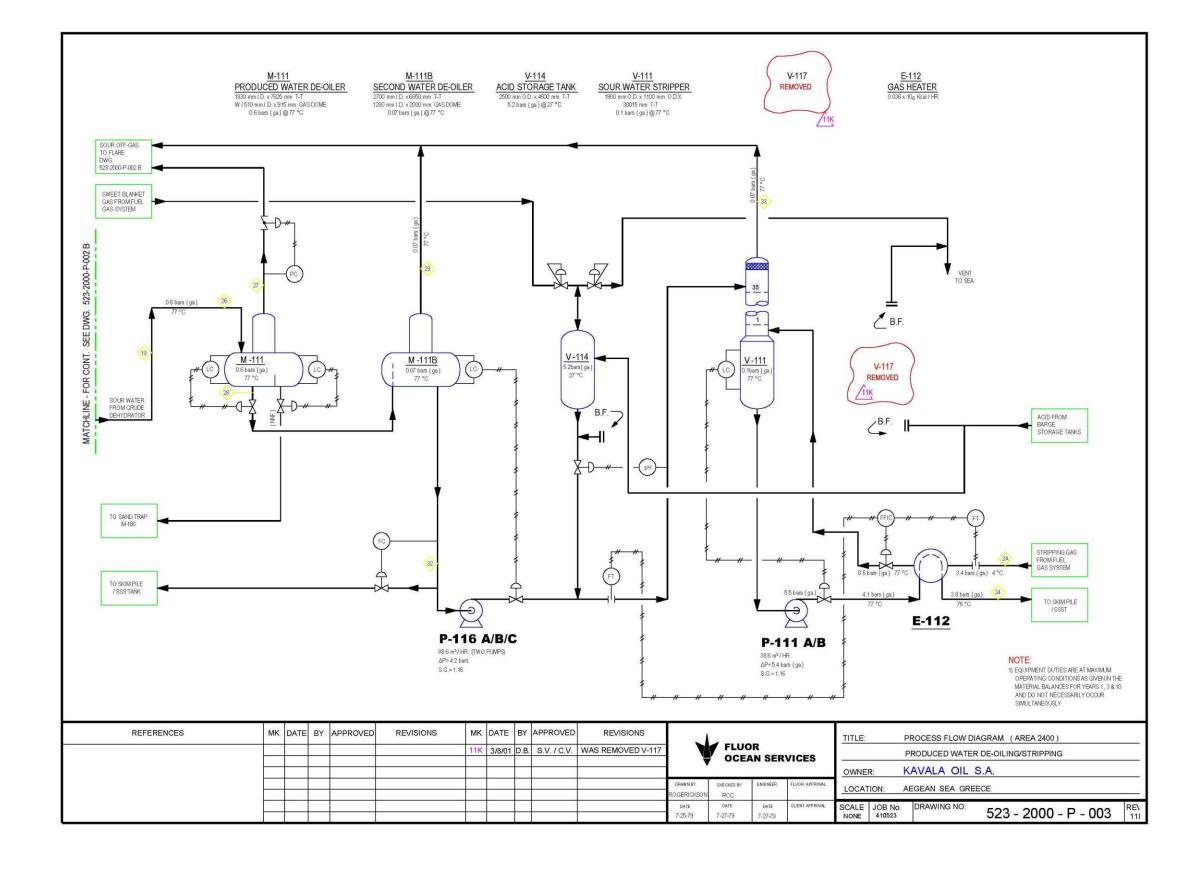






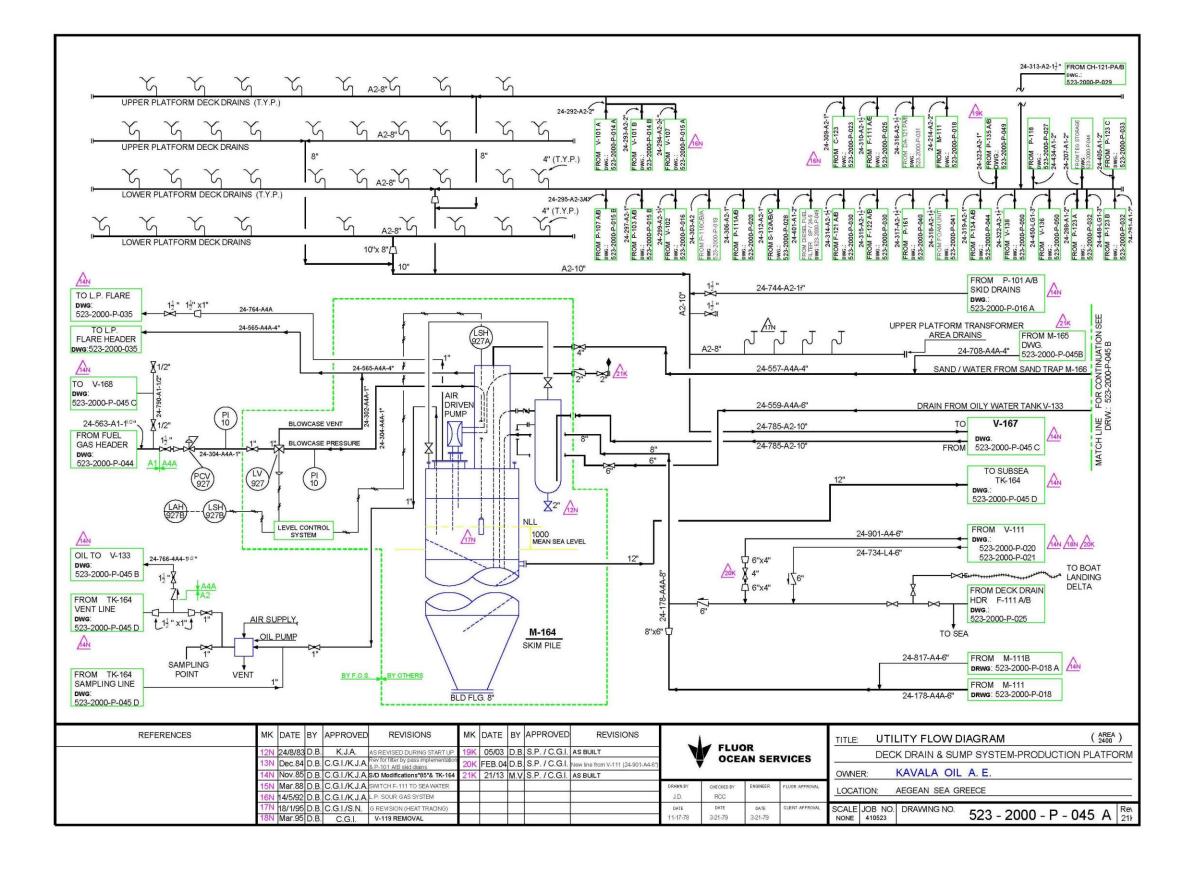






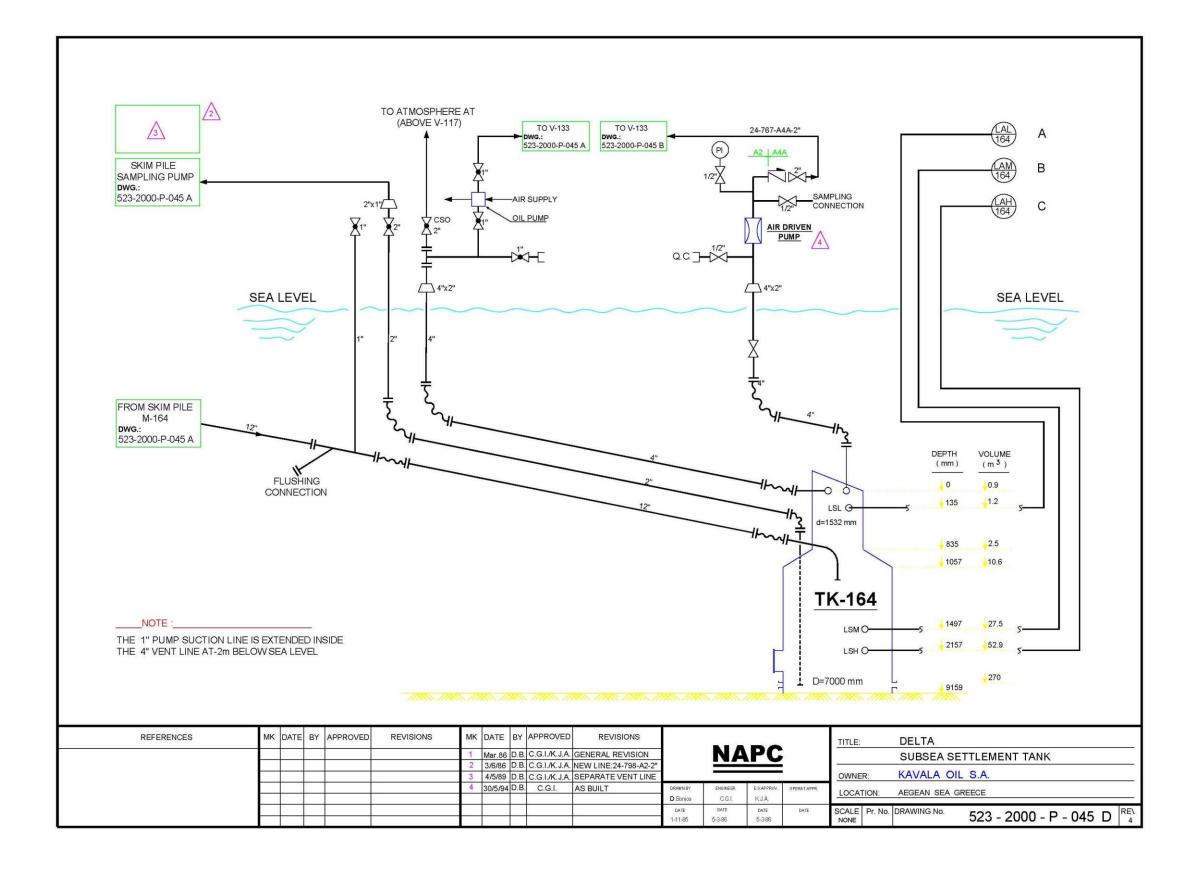






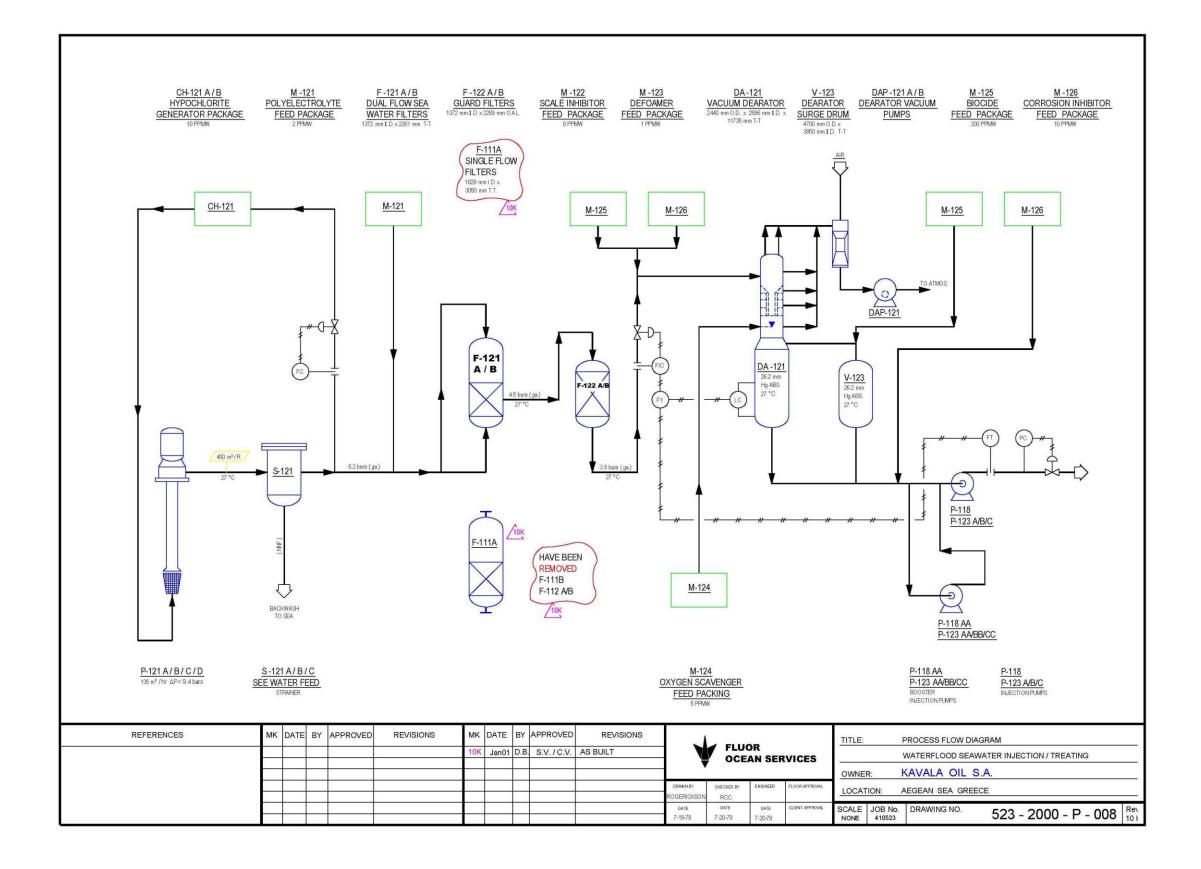






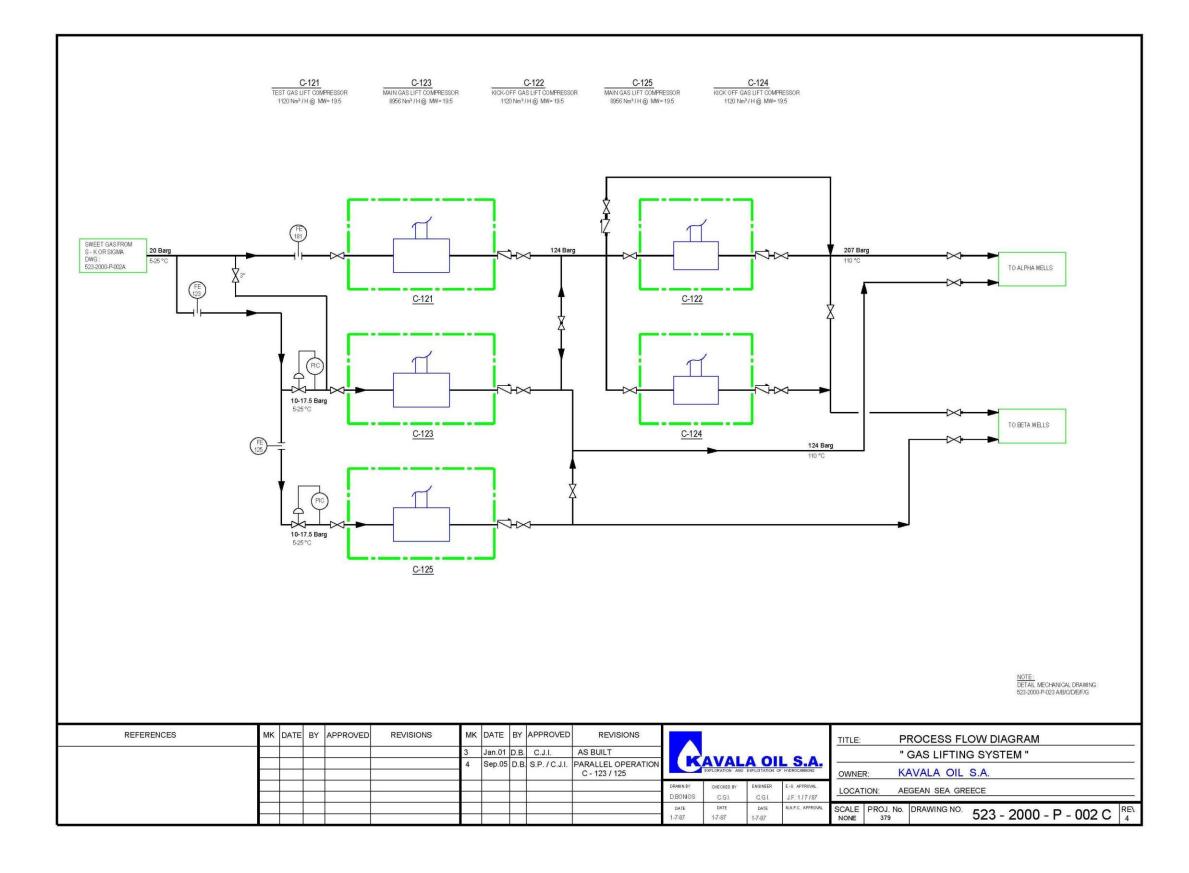






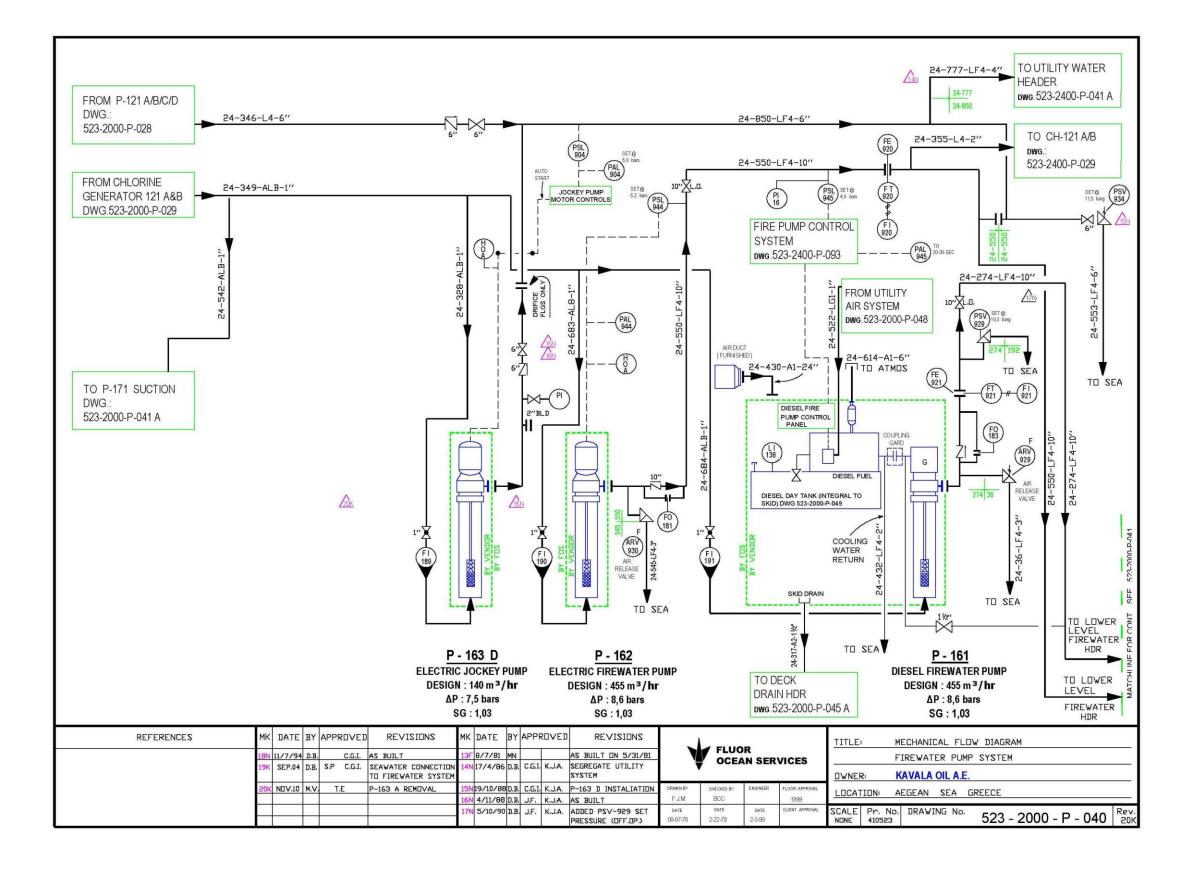






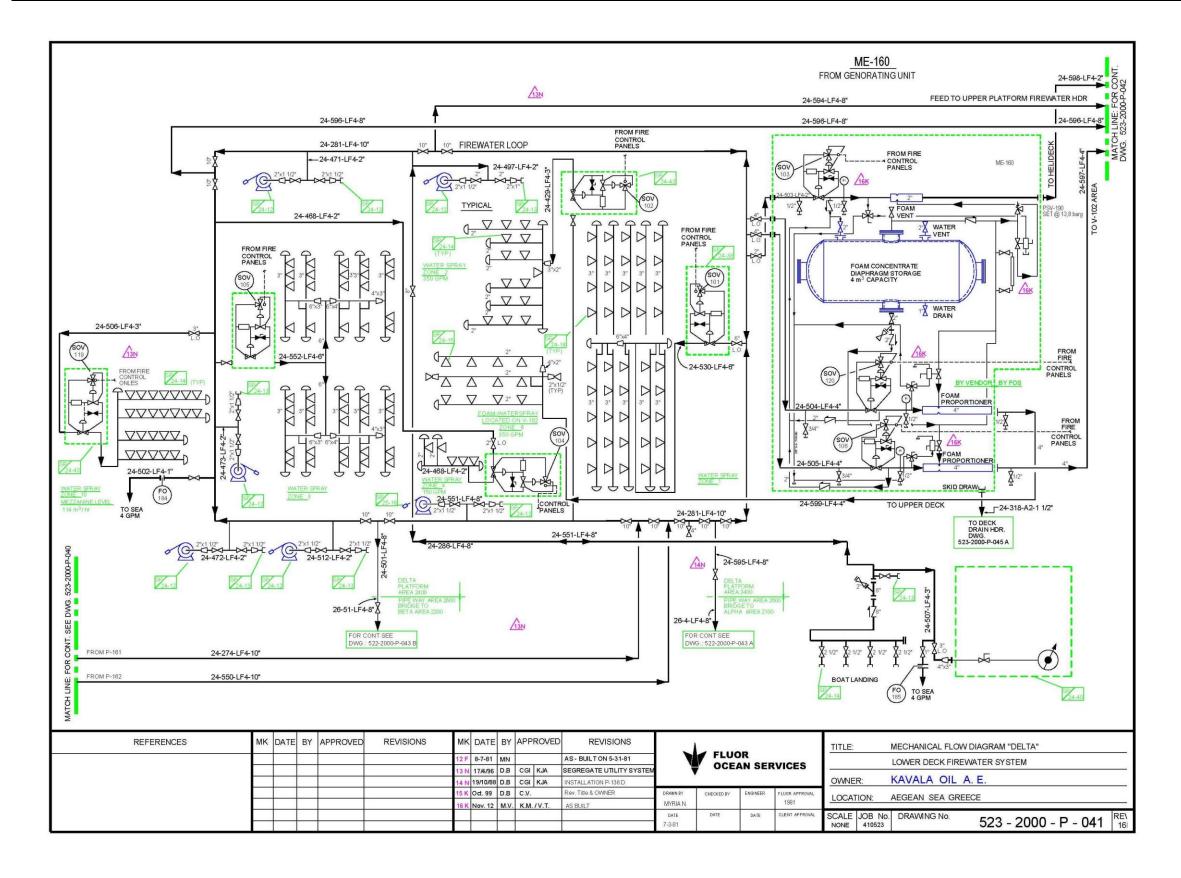






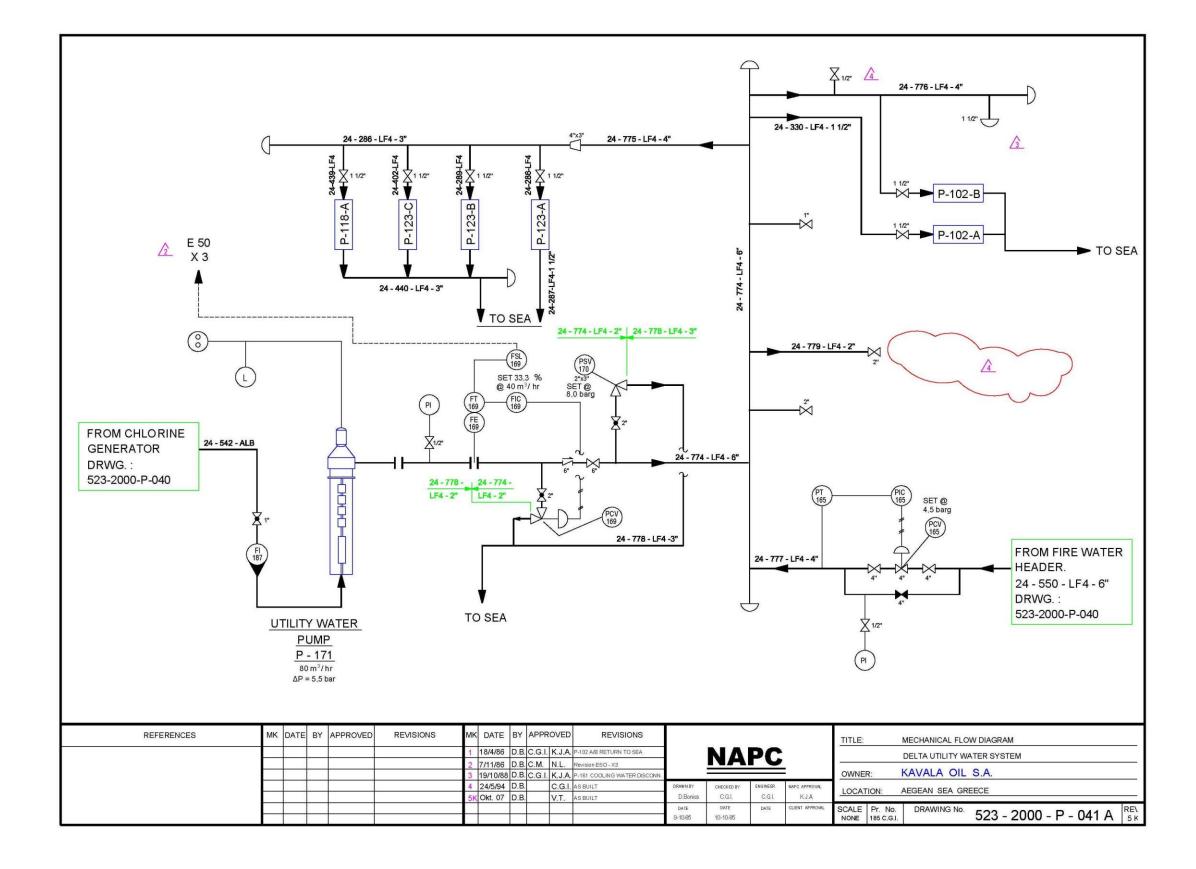






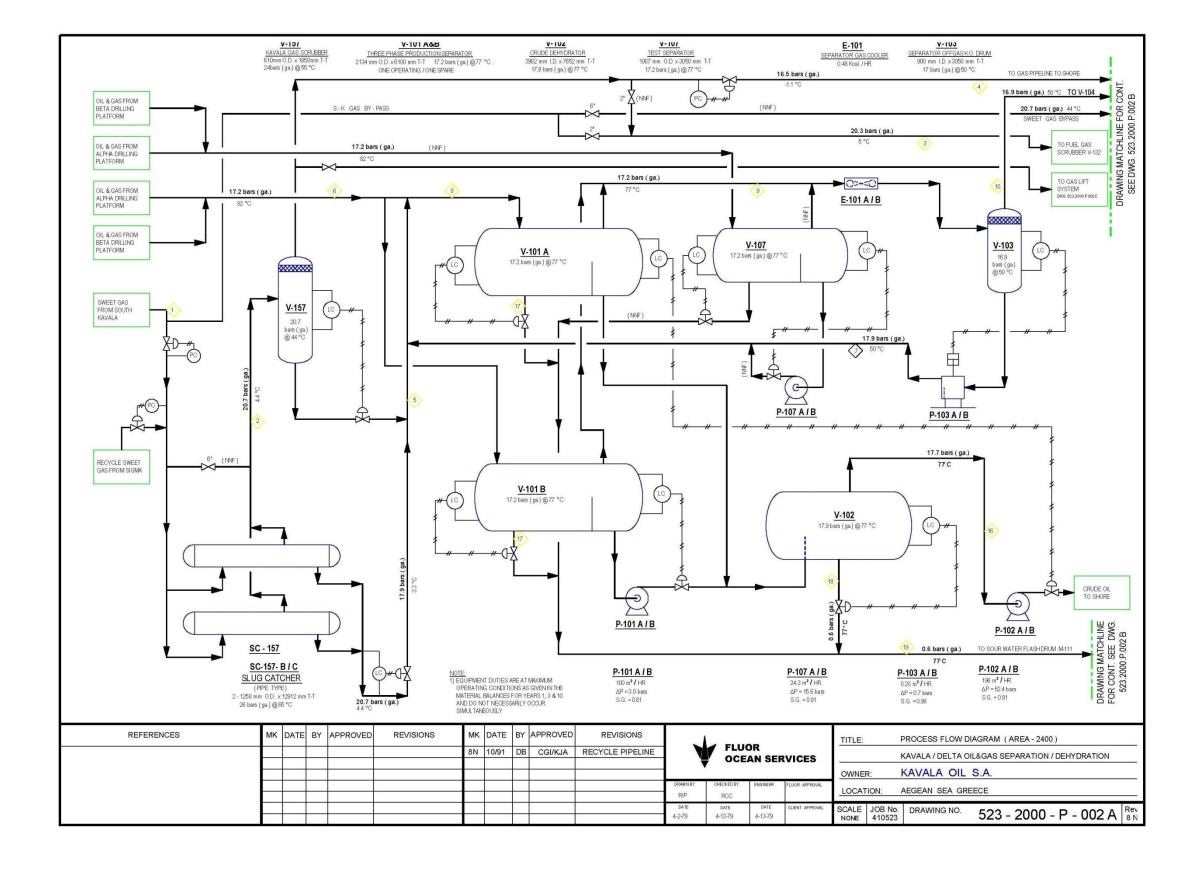






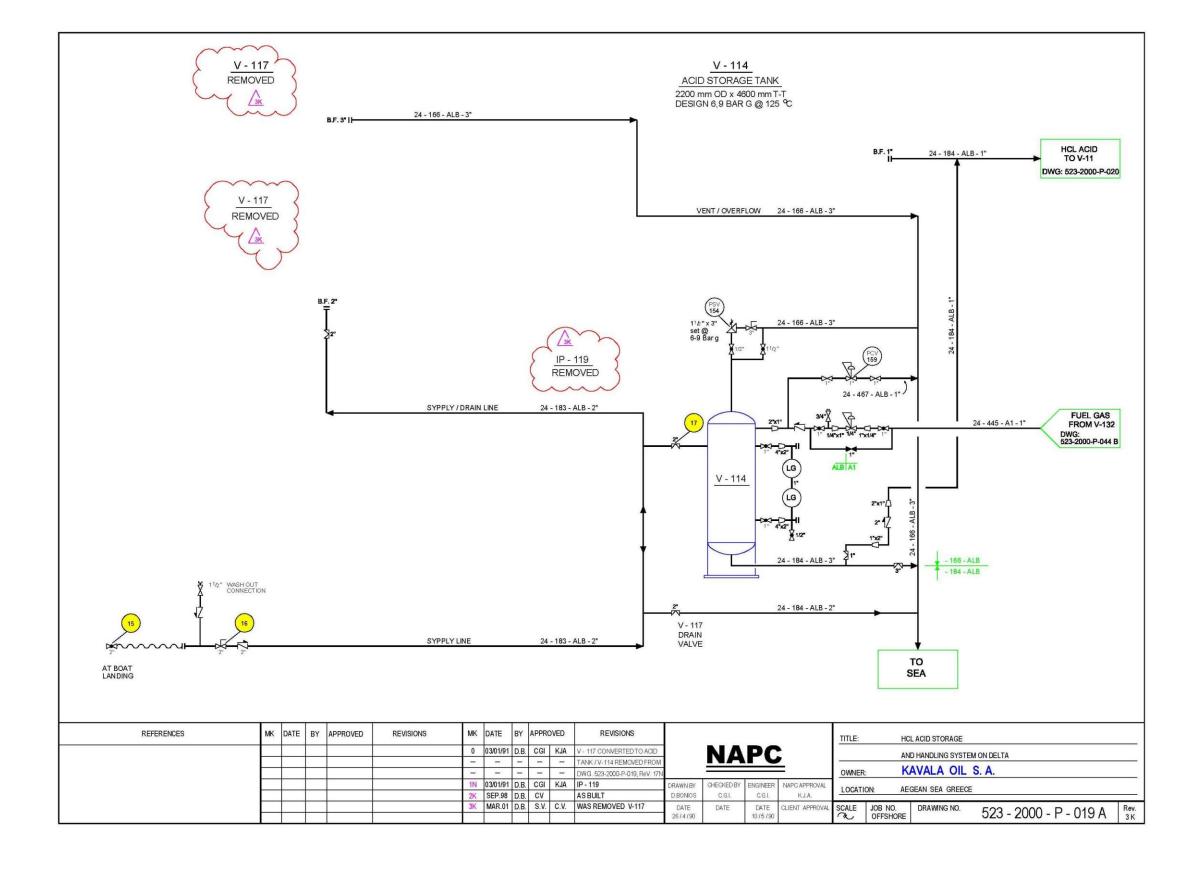


















New facilities





