



PIPING MATERIAL NOTES:

- SHALL CONTAIN LESS THAN 1% NICKEL
- $CE \leq 0.45 = C + \frac{Mn}{6} + \frac{(Cr + Mo + V)}{5} + \frac{(Ni + Cu)}{15}$
- IF ELEMENTS NOT REPORTED $CE \leq 0.45 = C + \frac{Mn}{6} + 0.05$
 $\frac{\%Mn}{\%C} \geq 2.5$
- PIPE, FLANGES & FITTINGS TO HAVE A MAX. YIELD STRENGTH OF 550 MPa
- PIPE, FLANGES & FITTINGS TO HAVE A MAX. HARDNESS OF 22 HRC (237 HB) EXCEPT
 - SA-105N FITTINGS TO HAVE A MAX. HARDNESS OF 187 HB
 - SA-234-WPB FITTINGS TO HAVE A MAX. HARDNESS OF 197 HB

BUILDING NOTES:

- SIZE & TYPE: 10' x 36' x 9'-3" to 9'-9" SHED ROOF
- EXTERIOR: 22 GA. GALVALUME c/w PREPAINTED TRIM & DOOR (THE BACK NINE) CLOVERDALE #7581
- INTERIOR: 24 GA. WHITE FLUTED ALUMINUM c/w WHITE SCREWS
- INSULATION: R12 (ROOF & WALL)
- DOORS: (2) 3' x 7' STEEL DOORS c/w PANIC HARDWARE, LOCK-SET, 20" x 20" IWG WINDOW, CHECKCHAIN, WEATHERSTRIPPING, THRESHOLD & CANOPIES
- WINDOWS: (2) 38" x 36" DOUBLE GLAZED SLIDING c/w SCREEN
- VENTILATION: (2) 12" x 12" LOUVRES c/w SLIDE & SCREEN
- (1) EXHAUST FAN, 12 ACPH, 115/1/60 X.P. ELECTRIC MOTOR, 1/4 H.P.
- OTHERS: CUT-OUT DOORS RAISED 3" FOR DRIP LIP INTERIOR Z-TYPE FLASHING

GENERAL NOTES:

- ALL ELEVATIONS ARE FROM TOP OF SKID FLOOR.
- MAIN PIPING PLAN TO BE READ IN CONJUNCTION WITH MECHANICAL FLOW DIAGRAM.
- ALL BUTTWELD PIPING TO BE BUILT IN ACCORDANCE WITH THE LATEST EDITION OF B31.3 PRESSURE PIPING CODE.
- ALL BUTTWELD 0.125" C.A. PIPING TO BE:
 - 600# ANSI: 4" & 6 - SCH 80
 - 600# ANSI: 2" - SCH 160
 - 150# ANSI: 2" - SCH 80
- THREADED 600 ANSI PIPING 1 1/2" & UNDER TO BE SCH 160 PIPE/NIPPLES c/w 6000# UNIONS/FITTINGS
- ALL BUTTWELD PIPING TO BE 100% RADIOGRAPHED TO ASME B31.3 "NORMAL SERVICE" AND HYDROTESTED TO 1.5 TIMES OF DESIGN PRESSURE AND STRESS RELIEVED. ALL WELDS WHICH CANNOT BE RADIOGRAPHED SHALL BE MAGNETIC PARTICLE OR LIQUID PENETRANT INSPECTED.
- ALL TUBING TO BE 3/8" DIA. 316SS c/w 316 SS SWAGelok TUBE FITTINGS.
- ALL INSTRUMENT GAS THREADED PIPING TO BE LEAK TESTED TO 800 KPa.
- ALL OPENINGS TO BE COVERED PRIOR TO SHIPMENT.
- UNDERSIDE OF SKID TO BE INSULATED WITH 2" THK. POLYURETHANE SPRAY FOAM.
- UNIT TO BE COMMERCIALY SANDBLASTED TO SP-SSP6 PRIOR TO:
 - SHOP COAT OF ZINC PHOSPHATE PRIMER
 - SHOP COAT OF FINISH INDUSTRIAL MARINE ENAMEL;
- SHIPPING DIMENSIONS: 11'-0" x 38'-0" x 13'-0" HIGH
WEIGHT: 32,000 LBS

MATERIALS (REF. MATERIAL NOTES):

PIPING - SA-106B SML's

FLANGES - SA-105N

FITTINGS - SA-234-WPB

BOLTS - SA-193-B7M

NUTS - SA-194-2HM

GASKET - 316 SS FLEXITALLIC

(1) REQ'D

TIME CARD

C-2479-PP

DWG. NO.	REFERENCE DRAWINGS	REV	DESCRIPTION	DATE	BY
		1	VESSEL CONNECTION TO BE ALL FLANGE; REVISED AS PER CHANGES ON P&ID	10/06/05	J.J.
		2	MIRROR GENERAL LAYOUT	10/12/05	J.J.



CUSTOMER: DUVERNAY OIL CORP.		LOCATION: b-37-B/93-P-10	
c/o TUNDRA ENGINEERING ASSOCIATES LTD.			
		MAIN PIPING PLAN	
		36" OD HORIZONTAL SEPARATOR SKID PACKAGE (SOUR)	
DATE: 08/23/05	DRN BY: J.J.	SCALE: 3/4":1'-0"	CHKD BY: APPRD BY: DWG NO: C-2479-C REV: 2