

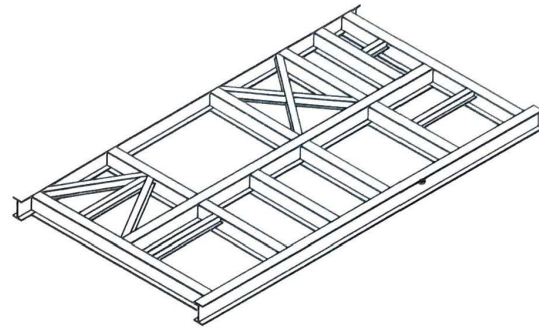
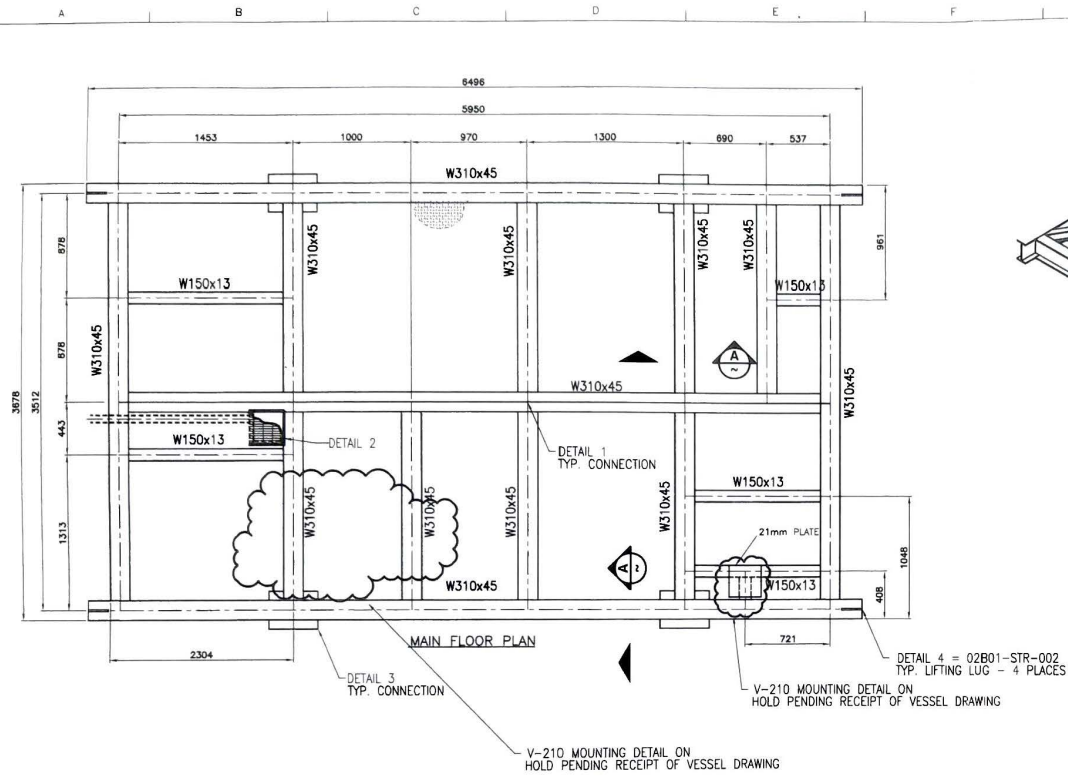
2010 07 29
PERMIT TO PRACTICE NUMBER 10985

REV	DESCRIPTION	DWN BY	DATE
1	ISSUED FOR CONSTRUCTION	R.S.	23-08-10
2	ISSUED FOR DESIGN	R.S.	05-07-10
3	FOR REVIEW	R.S.	20-06-10

TRI-ENERGY
SERVICES LTD.

GO PROJECTS

TITLE: GENERAL ARRANGEMENT
07-12 BOOSTER COMPRESSOR
INLET SEPARATOR / BLOWCASE PACKAGE
FOR: CROSSALTA GAS STORAGE & SERVICES LTD.
CROSSFIELD, AB
CONSULTANT: PROCESS ENGINEERING LTD
LSD: 07-18-28-01 WSM
GRID DWN BY: R. SCHILL APPROVED BY: ECU DWG No.: 02B01-GA-001 REVISION: (1)
DATE: 20-08-10 DATE: 10-02-09



ISO VIEW

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE GENERAL REQUIREMENTS OF: CSA S16, LIMIT STATES DESIGN OF STEEL STRUCTURES; CSC HANDBOOK OF STEEL CONSTRUCTION; ABC ALBERTA BUILDING CODE (2006); NBC NATIONAL BUILDING CODE OF CANADA (2005); OHSA OCCUPATIONAL HEALTH AND SAFETY ACT.
2. ALL MATERIAL SHALL BE OF NEW STOCK AND SHALL CONFORM TO THE GENERAL REQUIREMENTS OF: CSA S16, LIMIT STATES DESIGN OF STEEL STRUCTURES; CSC HANDBOOK OF STEEL CONSTRUCTION; THE TYPE AND CATEGORY OF MATERIALS SHALL BE COMPATIBLE WITH THEIR USE AND EXPOSURE.
3. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE PROJECT SPECIFICATION # PH3678, PROVIDED BY THE CLIENT.
4. DIMENSIONS ARE IN MILLIMETERS. DIMENSIONS ARE GIVEN BETWEEN ELEMENT CENTER LINES, UNLESS OTHERWISE NOTED.
5. FALL PROTECTION SYSTEM FOR ERECTION OF THE STRUCTURAL STEEL SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
6. FOR FIELD WELDED CONNECTIONS ALL BEAM ENDS SHALL BE CUT SQUARE AND TRUE (LENGTH OVERCUT=0, UNDERCUT = 6mm MAXIMUM).
7. END PLATES, GUSSET PLATES, STIFFENERS & CONNECTION MATERIAL SHALL BE A MINIMUM OF 10mm THICK.
8. THE GRAVITY AXIS OF BRACING, BEAMS AND COLUMNS SHALL INTERSECT AT A COMMON POINT UNLESS NOTED OTHERWISE ON THE ENGINEERING DRAWINGS.
9. FOR ADDITIONAL NOTES SEE 02B01-STR-002.
10. FOR PIPE SUPPORT AND LIFTING LUG DETAILS SEE 02B01-STR-002. ALL LOADS ARE AS PER THE SPECIFICATION PROVIDED BY THE CLIENT.

WELDING

1. WELDING OF STRUCTURAL STEEL SHALL CONFORM TO CSA W59, U.N.O.
2. CONTRACTORS RESPONSIBLE FOR WELDING SHALL BE CERTIFIED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA W47.1.
3. ALL WELDING SHALL BE DONE BY WELDERS QUALIFIED IN ACCORDANCE WITH CSA W47.1.
4. MINIMUM FILLET WELD SIZE SHALL BE 6mm UNLESS NOTED OTHERWISE ON THE DRAWINGS.
5. ALL GROOVE WELDS SHALL HAVE COMPLETE JOINT PENETRATION IN ACCORDANCE WITH THE STRUCTURAL WELDING CODE W59 UNLESS NOTED OTHERWISE ON DESIGN DRAWINGS.
6. FOR COMPLETE PENETRATION FIELD WELDS, BACKING BAR SHALL BE USED. FOR SHIPMENT, TACK WELD TO APPROPRIATE MEMBER.
7. ULTRASONIC OR RADIOGRAPHIC TESTING IS REQUIRED ON FULL PENETRATION WELDS, U.N.O.
8. WELDING ELECTRODES FOR JOINING STEEL ELEMENTS TO BE USED IN LOW TEMPERATURE SERVICE SHALL HAVE NOTCH TOUGHNESS PROPERTIES EXCEEDING THAT OF THE STEEL ELEMENTS BEING CONNECTED.

PAINT

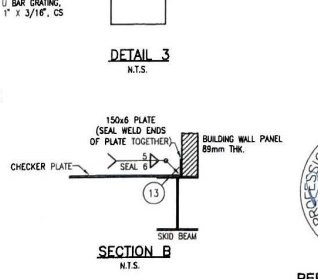
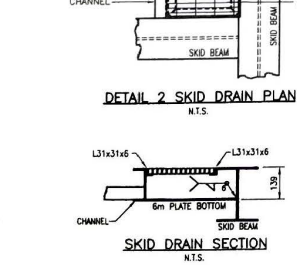
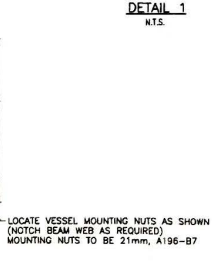
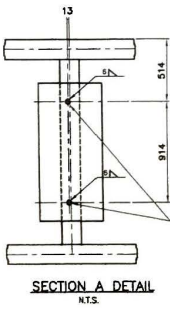
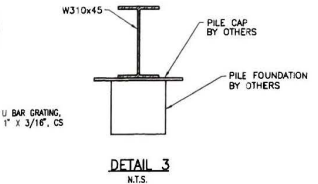
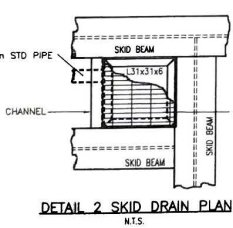
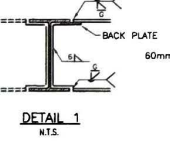
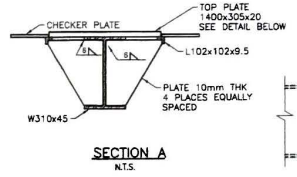
1. ALL STEEL SHALL BE MECHANICALLY CLEANED, PRIMED AND PAINTED WITH WARM GREY ENAMEL.

FLOOR PLATES AND GRATING

1. STEEL SKID IS DESIGNED FOR A LIVE LOAD OF -7.2 kPa (EQUIPMENT ALLOWANCE) UNLESS NOTED OTHERWISE.
2. ALL GRATING SHALL HAVE BANNED EDGES AND ALL CUT OPENINGS SHALL BE BANNED. GRATING SHALL HAVE FACTORY DIP BLACK FINISH UNLESS NOTED OTHERWISE ON DRAWINGS.
3. ALL GRATING SHALL BE TACK WELDED TO STRUCTURAL SUPPORTS EVERY 14TH BAR (MIN 4 WELDS PER PANEL), U.N.O. REMOVABLE GRATING, WHERE SPECIFIED ON ENGINEERING DRAWINGS, SHALL BE FASTENED USING HILTI GRATING FASTENING SYSTEM CONSISTING OF EM8-15-14 FP10 THREADED STUD AND THE X-FCM GRATING DISK TO SUIT GRATING HEIGHT.
4. THE SKID FLOOR (ENCLOSED BY THE BUILDING) SHALL BE COVERED BY RAISED PATTERN STEEL CHECKER PLATE, 4.7mm MIN. AND 100% SEAL WELDED. CHECKERPLATE SHALL BE WELDED TO STRUCTURAL MEMBERS.
5. ALL CHECKER PLATES SHALL BE FIELD WELDED IN PLACE (USING 20mm DIA. PLUG WELD AT EVERY 600mm FOR INTERIOR OF PANELS, AND 30mm DIA. SEAL WELD FOR EXTERIOR OF PANELS) UNLESS NOTED OTHERWISE ON THE ENGINEERING DRAWINGS.

STRUCTURAL AND MISCELLANEOUS PLATES

UNLESS OTHERWISE SPECIFIED, STRUCTURAL STEEL SHALL CONFORM TO: CSA G40.20, GENERAL REQUIREMENTS FOR ROLLED OR WELDED STRUCTURAL QUALITY STEEL. MEETING THE FOLLOWING MINIMUM GRADE REQUIREMENTS: W SECTIONS GRADE 350 W HSS SECTIONS GRADE 350 W PLATE GRADE 350 W ANGLES AND CHANNELS GRADE 300 W STEEL PLATE USED FOR LIFTING LUGS SHALL BE GRADE 350 WT



BILL OF MATERIAL		
DESCRIPTION	LENGTH (mm)	WEIGHT (KG)
C150x12	1634.1	20
L31x31x6.4	3025	5
W150x22	4025	100
W310x45	41691	1605
CHECKER PLATE 4.7mm	5960x3912	983
L102x102x9.5	4000	31

ISSUED FOR CONSTRUCTION		A.S.	21-07-10
FOR REVIEW		A.S.	28-08-10
REV	DESCRIPTION	DWN BY	DATE
1	STRUCTURAL GENERAL ARRANGEMENT		
2	07-12 BOOSTER COMPRESSOR		
3	INLET SEPARATOR / BLOWCASE PACKAGE		
4	CROSSALTA GAS STORAGE & SERVICES LTD.		
5	CROSSFIELD, AB		
6	CONSULTANT: PROCESS ENGINEERING LTD		
7	ISS: 07-12-08-01 WEM		
8	DATE: 28-08-10	APPROVED BY: RU	DATE: 10-07-27
9	SCALE: 1:30		
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