

NO.	SHAPE	BAR	WEIGHT	LENGTH	# OF BARS	TOTAL LENGTH(mm)	TOTAL WEI	GHT(k
1	500 2000 500	25M	3.93	3000	4	12000	47.2	2
2	600 500	15M	1.57	1100	4	4400	6.9	
3	500 700	15M	1.57	1200	4	4800	7.5	
4	500 500	15M	1.57	2700	4	10800	17	
5	500 1300	15M	1.57	1800	4	7200	11.3	3
6	500 500	15M	1.57	3100	4	12400	19.5	
7	500 1600 500	15M	1.57	2600	2	5200	8.1	
8	1250 750	15M	1.57	2000	10	18000	28.3	
9	8F ()	15M	1.57	6725	10	67250	105.6	
10	\$ C	15M	1.57	7800	12	93600	147	
11	P 900 B	15M	1.57	2300	4	9200	14.4	1
12	3 900 So	15M	1.57	2000	4	8000	12.6	5
13	\$ C	15M	1.57	3100	1	3100	4.9	
14	\$ C	15M	1.57	4680	1	4680	7.4	
15	310	15M	1.57	5940	1	5940	9.3	
16	310	15M	1.57	3420	1	3420	5.4	
17	3 O	15M	1.57	5600	1	5600	8.9	
18	2030	15M	1.57	2030	20	40600	63.8	
19	1250 500	15M	1.57	1750	10	17500	27.5	THIS IN
20	1830	15M	1.57	1830	8	14640	23.0	THIS IN ETT CHE IT SHOOR

GENERAL NOTES:

- ALL CONCRETE WORK SHALL CONFORM TO REQUIREMENTS OF CSA STANDARD A23.1-94. ALL CONCRETE SHALL BE 30 MPa AT 28 DAYS.
- CONCRETE TESTING SHALL BE DONE IN ACCORDANCE WITH CSA STANDARD A23.2-94 BY AN INDEPENDENT MATERIAL CONSULTANT WITH THE REPORT SUBMITTED TO THE STRUCTURAL ENGINEER.
- ALL CONCRETE SHALL BE NORMAL WEIGHT STONE WITH THE UNIT WEIGHT OF 24 kN/m³ (150 PCF). ALL CEMENT SHALL BE NORMAL PORTLAND CEMENT TYPE 50 SULPHATE RESISTANT CEMENT CONFORMING TO CSA-AS-98.
- 4) NO CALCIUM CHLORIDE IN ANY FORM IS PERMITTED IN CONCRETE MIX. DO NOT USE ADMIXTURES WITHOUT WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER.
- CLEAN FORMS FROM DEBRIS AND OTHER FOREIGN MATERIALS PRIOR TO CASTING CONCRETE. USE MECHANICAL VIBRATORS TO COMPACT CONCRETE THROUGHOUT.
- REINFORCING STEEL MUST BE INSPECTED BY ENGINEER PRIOR TO CASTING OF CONCRETE.
- 7) DO NOT REMOVE FORMS BEFORE CONCRETE REACHES 10 MPa.
- 8) ALL REINFORCING SHALL BE DEFORMED BARS CONFORMING TO CSA G30.18 GRADE 400.
- 9) FOR SMALL OPENINGS DUE TO PIPES, SEE PIPE DRAWINGS.
- 10) CONTAINER IS DESIGNED FOR 12 kN/m² LIVE LOAD AT TOP AND 50 kN/m² LATERAL PRESSURE. BACK FILLING OF CONTAINER SHALL BE DONE SIMULTANEOUSLY FROM ALL AROUND THE CONTAINER. TOP OF CONTAINER SHALL BE AT GRADE LEVEL.

TOTAL WEIGHT OF REBAR = 576 kg

THIS TANK WILL BE SUBJECT TO FREEZE/THAW CYCLES IF LOCATED OUTSIDE THE BUILDING. AIR ENTRAINMENT SHALL BE 4% TO 7%.

CERTIFIED AS BUILT

TANKMAN PHONE: 403-271-4525 (CALGARY)



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REBAR MATERIAL LIST & GENERAL NOTES

CUSTOMER: ENCANA FCCL OIL LTD.

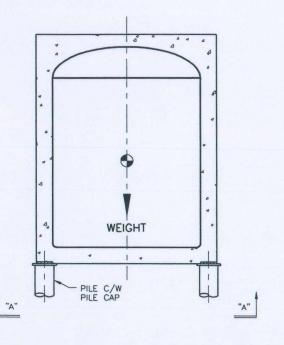
C/O DPH FOCUS CORPORATION CONSULTING ENGINEERS

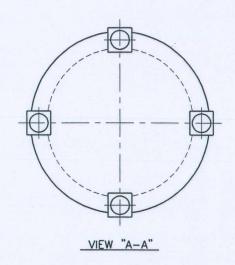
PO #: FCSR-DPH-4017B, JOB #: 9971

PLANT: FOSTER CREEK SULPHUR RECOVERY

AMINE/AGE BUILDING FLOOR DRAIN TANK TAG #: T-5780

SCALE: N.T.S. DWG. NO.: 08-1074-R5 REV:





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NOTE: THE TANK WEIGHT IS 25 METRIC TONS SUPPORTED ON FOUR (4) PILES C/W PILE CAPS

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SUPPORTS OR FOUNDATION LOAD DIAGRAM

CUSTOMER: ENCANA FCCL OIL LTD. C/O DPH FOCUS CORPORATION CONSULTING ENGINEERS

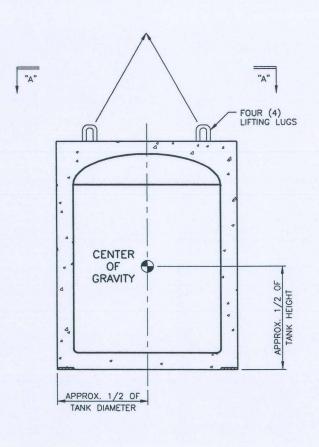
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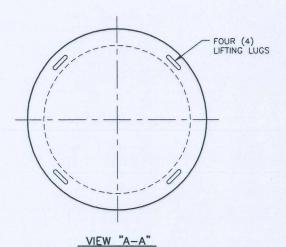
PLANT: FOSTER CREEK SULPHUR RECOVERY

AMINE/AGE BUILDING FLOOR DRAIN TANK TAG #: T-5780 REV:

SCALE: N.T.S. DWG. NO.: 08-1074-A8

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LIFTING DIAGRAM/INSTRUCTIONS CENTRE OF GRAVITY OF EACH LIFT

CUSTOMER: ENCANA FCCL OIL LTD. C/O DPH FOCUS CORPORATION CONSULTING ENGINEERS

PO #: FCSR-DPH-4017B, JOB #: 9971

PLANT: FOSTER CREEK SULPHUR RECOVERY

AMINE/AGE BUILDING FLOOR DRAIN TANK TAG #: T-5780

SCALE: N.T.S. DWG. NO .:

08-1074-A10

REV: 0

DOUBLE WALL/DOUBLE COMPOSITE TANK INSTALLATION PROCEDURES

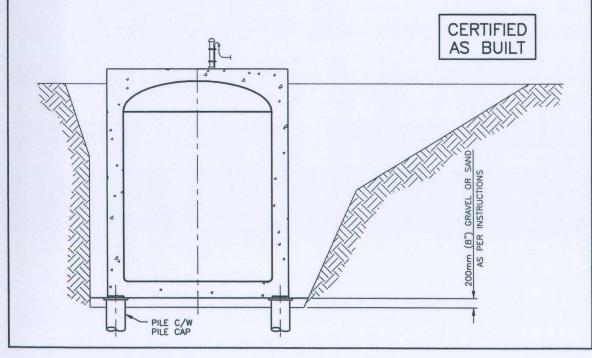
- 1. ALWAYS FOLLOW OCCUPATIONAL HEALTH AND SAFETY STATUTES AND REGULATIONS.
- 2. CONTAINER IS DESIGNED FOR 12 kN/m2 LIVE LOAD AT TOP AND 50 kN/m2 LATERAL PRESSURE. BACK FILLING OF CONTAINER SHALL BE DONE SIMULTANEOUSLY FROM ALL AROUND THE CONTAINER. TOP OF CONTAINER SHALL BE AT GRADE LEVEL.
- 3. DRY HOLE INSTALLATION: TANK SHALL BE PLACED ON 200mm (8") SAND OR GRAVEL.
- 4. WET HOLE INSTALLATION: TANK SHALL BE PLACED ON 200mm (8") OF GRAVEL OR CRUSHED ROCK.
- 5. TANK ON PILES INSTALLATION: FOLLOW CONSULTANTS INSTRUCTIONS.
- 6. BEFORE LOWERING THE TANK INTO THE EXCAVATION, CHECK FOR ANY OBVIOUS DAMAGE TO CONCRETE AND F.R.P. (FIBER REINFORCED PLASTIC) PARTS. DAMAGED TANKS SHALL NOT BE INSTALLED. CONSULT WITH TANKMAN ENGINEER - JOHN S. JOCHMANN, P.Eng. BY CALLING (403) 271-4525 (office) OR (403) 888-6905 (cellular).
- 7. a) CONNECT THE TANK INLET(S) TO THE PROCESS PIPING.

b) CONNECT MONITORING TUBING.

c) TIGHTEN BOLTS TO PREVENT INFILTRATION AND EXFILTRATION.

d) INSTALL PIPE BOLLARDS BEFORE BACKFILLING.

- e) BACKFILLING OF THE LEVELED TANK SHALL BE DONE SIMULTANEOUSLY ALL AROUND THE TANK BODY.
- 8. FAILURE TO FOLLOW THESE INSTRUCTIONS WILL INVALIDATE THE WARRANTY.



BOLT TORQUING SEQUENCE



1" TO 3"



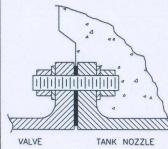
4" TO 8"

RECOMMENDED BOLT TORQUES FOR HAND LAY-UP FLANGES

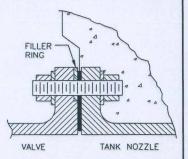
PIPE	BOLT DIA.	TORQUE FT/LB		
2"	5/8"	20 FT/LB		
3"	5/8"	20 FT/LB		
4"	5/8"	20 FT/LB		
6"	3/4"	25 FT/LB		
8"	3/4"	25 FT/LB		

GENERAL NOTE:

1) ALWAYS USE THE THREAD LUBRICANT APPROPRIATE FOR THE MATERIAL



FLAT-FACE VALVE FLANGE TO FLAT-FACE RTP NOZZLE FLANGE AND FULL-FACE GASKET



RAISED-FACE VALVE FLANGE TO FLAT-FACE RTP NOZZLE FLANGE WITH FILLER RING AND FULL-FACE GASKET

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INSTALLATION PROCEDURES

CUSTOMER: ENCANA FCCL OIL LTD. C/O DPH FOCUS CORPORATION CONSULTING ENGINEERS

PO #: FCSR-DPH-4017B, JOB #: 9971

PLANT: FOSTER CREEK SULPHUR RECOVERY

AMINE/AGE BUILDING FLOOR DRAIN TANK TAG #: T-5780

SCALE: N.T.S. DWG. NO .: 08-1074-IP

REV:

