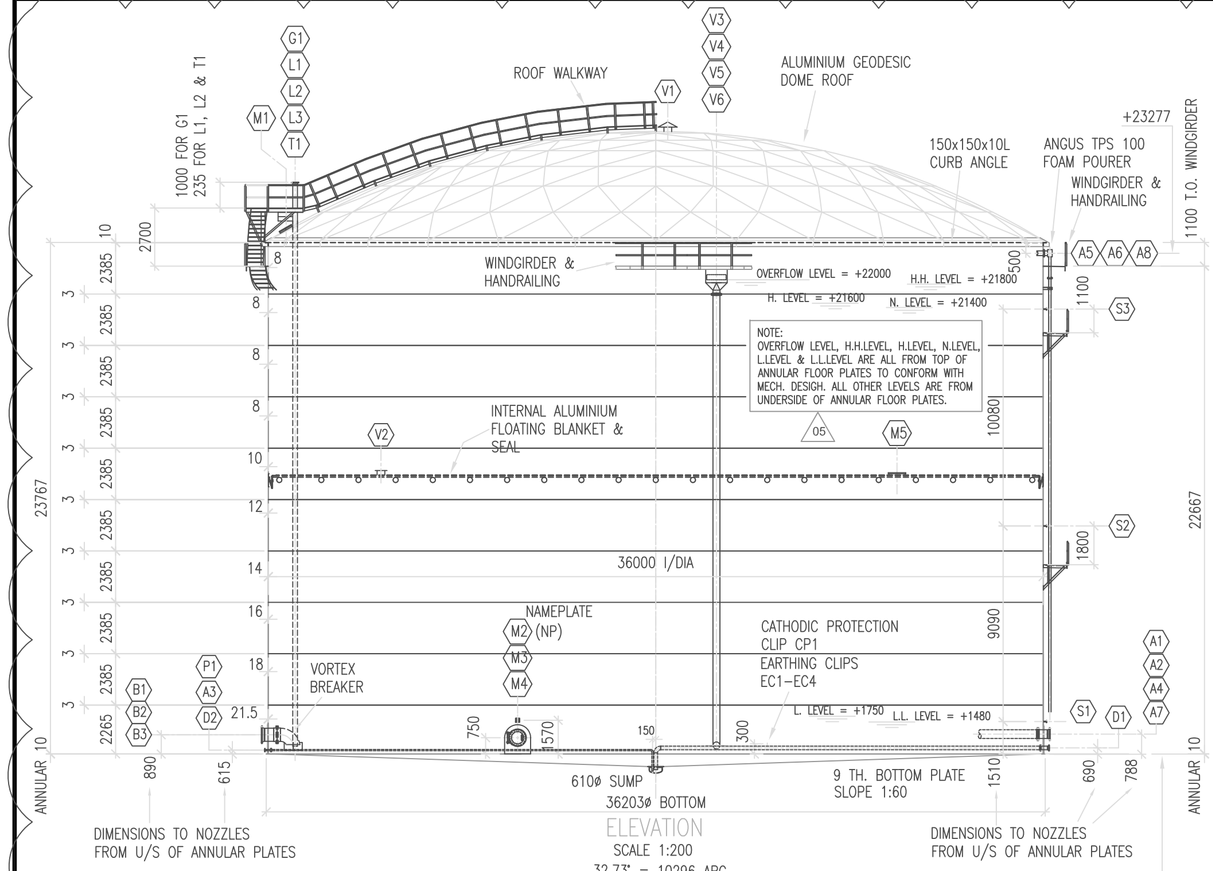

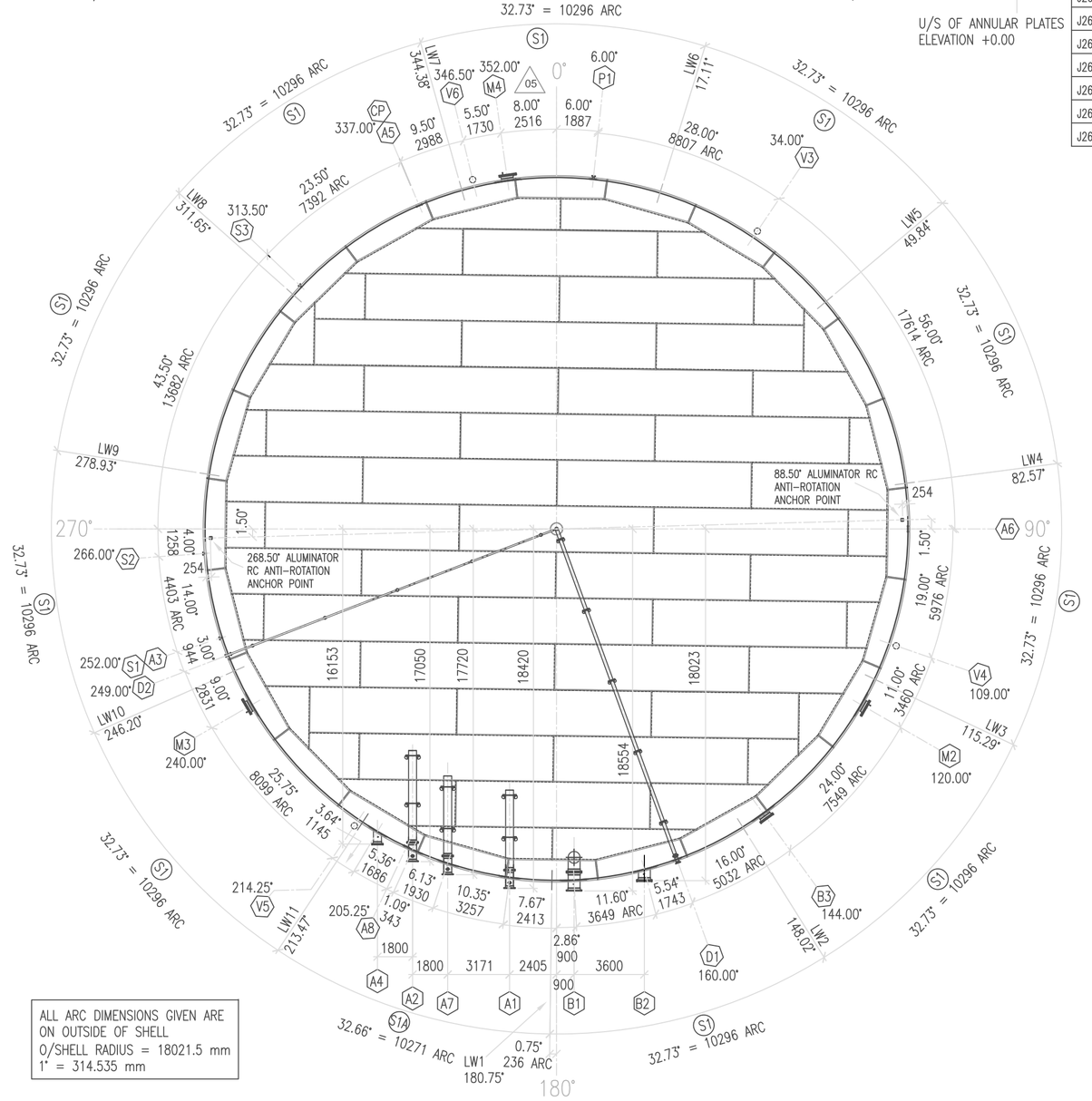

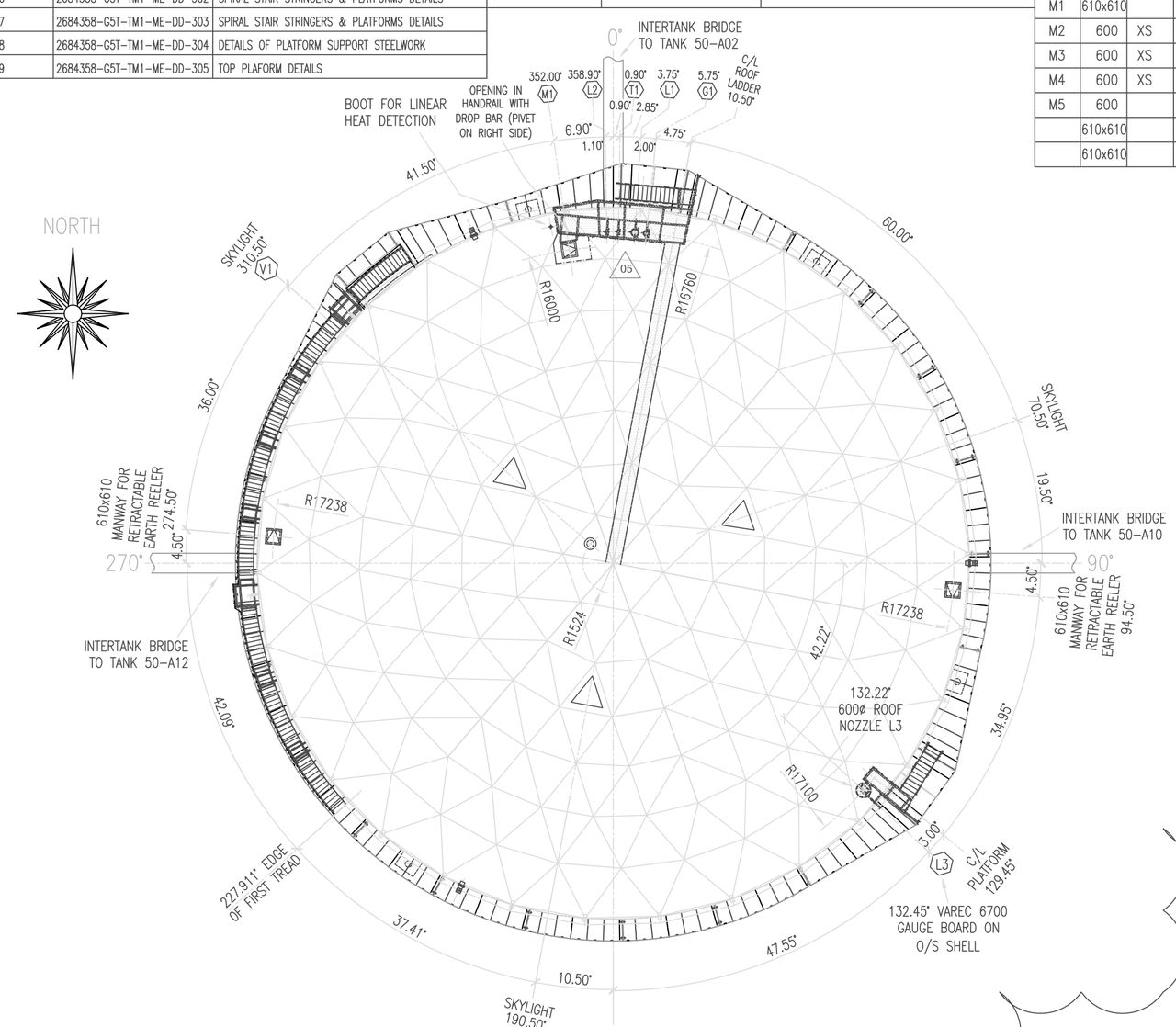

TROTECH DRAWING NO.	CLIENTS DRAWING NO.	DESCRIPTION
J263–D–601	2684358–G5T–TM1–ME–DG–045	GENERAL ARRANGEMENT 50–A11
J263–D–602	2684358–G5T–TM1–ME–DD–271	TANK DATA SHEET
J263–D–603	2684358–G5T–TM1–ME–DG–046	OVERFLOW HEIGHTS
J263–D–604	2684358–G5T–TM1–ME–DD–272	NAMEPLATE AND BRACKET
J263–D–605	2684358–G5T–TM1–ME–DD–273	BOTTOM PLATE DETAILS
J263–D–606	2684358–G5T–TM1–ME–DD–274	SHELL PLATE DETAILS
J263–D–607	2684358–G5T–TM1–ME–DD–275	BOTTOM SUMP
J263–D–608	2684358–G5T–TM1–ME–DD–276	DRIP RING
J263–D–609	2684358–G5T–TM1–ME–DD–277	DETAILS OF EARTHING/CP CLIPS
J263–D–610	2684358–G5T–TM1–ME–DG–047	WIND GIRDER ARRANGEMENT
J263–D–611	2684358–G5T–TM1–ME–DD–278	WIND GIRDER DETAILS
J263–D–612	2684358–G5T–TM1–ME–DD–279	WIND GIRDER DETAILS
J263–D–613	2684358–G5T–TM1–ME–DD–280	WIND GIRDER DETAILS
J263–D–614	2684358–G5T–TM1–ME–DD–281	INLET NOZZLE A1
J263–D–615	2684358–G5T–TM1–ME–DD–282	SPILLBACK & FLUSH NOZZLE A2
J263–D–616	2684358–G5T–TM1–ME–DD–283	FLUSH TANK RETURN NOZZLE A3
J263–D–617	2684358–G5T–TM1–ME–DD–284	SPARE NOZZLE A4
J263–D–618	2684358–G5T–TM1–ME–DD–285	FIXED FOAM CHAMBER INLET NOZZLES A5 A6, & A8
J263–D–619	2684358–G5T–TM1–ME–DD–286	INLET NOZZLE A7
J263–D–620	2684358–G5T–TM1–ME–DD–287	OUTLET NOZZLE B1
J263–D–621	2684358–G5T–TM1–ME–DD–288	SPARE NOZZLES B2, B3 & B4
J263–D–622	2684358–G5T–TM1–ME–DD–289	TANK DRAIN NOZZLE D1
J263–D–623	2684358–G5T–TM1–ME–DD–290	TANK FLUSH NOZZLE D2
J263–D–624	2684358–G5T–TM1–ME–DD–291	GUAGE HATCH NOZZLE G1
J263–D–625	2684358–G5T–TM1–ME–DD–292	LEVEL TRANSMITTER NOZZLE L1
J263–D–626	2684358–G5T–TM1–ME–DD–293	LEVEL TRANSMITTER NOZZLE L2
J263–D–627	2684358–G5T–TM1–ME–DD–294	FLOAT LEVEL INDICATOR NOZZLE L3
J263–D–628	2684358–G5T–TM1–ME–DD–295	MANWAY SIDE ENTRY M2, M3 & M4
J263–D–629	2684358–G5T–TM1–ME–DD–296	PRESSURE TRANSMITTER NOZZLE P1
J263–D–630	2684358–G5T–TM1–ME–DD–297	SAMPLE LINE NOZZLES S1, S2 & S3
J263–D–631	2684358–G5T–TM1–ME–DD–298	TEMPERATURE TRANSMITTER NOZZLE T1
J263–D–632	2684358–G5T–TM1–ME–DD–299	OVERFLOW SLOTS V3, V4, V5 & V6
J263–D–633	2684358–G5T–TM1–ME–DG–048	GENERAL ARRANGEMENT SPIRAL STAIRS
J263–D–634	2684358–G5T–TM1–ME–DD–300	SPIRAL STAIR STRINGERS & PLATFORMS DETAILS
J263–D–635	2684358–G5T–TM1–ME–DD–301	SPIRAL STAIR STRINGERS & PLATFORMS DETAILS
J263–D–636	2684358–G5T–TM1–ME–DD–302	SPIRAL STAIR STRINGERS & PLATFORMS DETAILS
J263–D–637	2684358–G5T–TM1–ME–DD–303	SPIRAL STAIR STRINGERS & PLATFORMS DETAILS
J263–D–638	2684358–G5T–TM1–ME–DD–304	DETAILS OF PLATFORM SUPPORT STEELWORK
J263–D–639	2684358–G5T–TM1–ME–DD–305	TOP PLAFORM DETAILS
J263–D–640	2684358–G5T–TM1–ME–DD–306	DETAILS OF INTERM. PLATFORM & SUPPORT STEELWORK
J263–D–641	2684358–G5T–TM1–ME–DG–049	GAUGERS PLATFORM ARRANGEMENT
J263–D–642	2684358–G5T–TM1–ME–DD–307	GAUGERS PLATFORM DETAILS
J263–D–643	2684358–G5T–TM1–ME–DD–308	GAUGERS PLATFORM DETAILS
J263–D–644	2684358–G5T–TM1–ME–DD–309	LIFTING DAVIT
J263–D–645	2684358–G5T–TM1–ME–DD–310	DETAILS OF TANK CLIPS
J263–D–646	2684358–G5T–TM1–ME–DD–311	MISC. ATTACHEMENTS CLIPS
J263–D–647	2684358–G5T–TM1–ME–DD–312	DETAILS OF VAREC GAUGE BRACKETS & PIPING
J263–D–648	2684358–G5T–TM1–ME–DD–313	INTERMEDIATE WINDGIRDER ARRANGEMENT
J263–D–649	2684358–G5T–TM1–ME–DD–314	INTERMEDIATE WINDGIRDER DETAILS
J263–D–650	2684358–G5T–TM1–ME–DD–315	INTERMEDIATE WINDGIRDER DETAILS
J263–D–651	2684358–G5T–TM1–ME–DD–536	ALUMINATOR RC FLOATING ROOF AT LOW POSITION
J263–D–652	2684358–G5T–TM1–ME–DD–552	WINDGIRDER SUPPORT DETAILS
J263–D–653	2684358–G5T–TM1–ME–DD–562	OVERFLOW BOX DETAILS
J263–D–654	2684358–G5T–TM1–ME–DD–572	50–A11 ACCUMULATOR – SHELL PLATE DEVELOPMENT
J263–D–655	2684358–G5T–TM1–ME–DA–007	LEVEL INDICATOR ACCESS PLATFORM ARRANGEMENT
J263–D–656	2684358–G5T–TM1–ME–DD–582	LEVEL INDICATOR ACCESS PLATFORM DETAILS
J263–D–657	2684358–G5T–TM1–ME–DD–590	CUT OUT OPENINGS IN WINDGIRDER
J263–D–658	2684358–G5T–TM1–ME–DG–109	SHELL DELUGE SYSTEM GENERAL ARRANGEMENT
J263–D–659	2684358–G5T–TM1–ME–DG–110	ROOF DELUGE SYSTEM GENERAL ARRANGEMENT
J263–D–660	2684358–G5T–TM1–ME–DD–642	DELUGE RISER PIPE DETAILS
J263–D–661	2684358–G5T–TM1–ME–DD–643	DELUGE RISER PIPE DETAILS
J263–D–662	2684358–G5T–TM1–ME–DD–644	DELUGE SHELL PIPING DETAILS
J263–D–663	2684358–G5T–TM1–ME–DD–645	DELUGE ROOF PIPING DETAILS
J263–D–664	2684358–G5T–TM1–ME–DD–646	DELUGE ROOF PIPING DETAILS
J263–D–665	2684358–G5T–TM1–ME–DD–647	DELUGE ROOF PIPING DETAILS
J263–D–666	2684358–G5T–TM1–ME–DG–111	FOAM POURER SYSTEM GENERAL ARRANGEMENT
J263–D–667	2684358–G5T–TM1–ME–DD–648	FOAM POURER RISER PIPE DETAILS
J263–D–668	2684358–G5T–TM1–ME–DD–649	FOAM POURER PIPING DETAILS
J263–D–669	2684358–G5T–TM1–ME–DD–667	SPRAY PIPING DETAILS
J263–D–670	2684358–G5T–TM1–ME–DD–705	GAUGER PLATFORM HANDRAIL DETAILS
J263–D–671	2684358–G5T–TM1–ME–DD–706	GAUGER PLATFORM STAIR DETAILS
J263–D–672	2684358–G5T–TM1–ME–DD–707	LEVEL INDICATOR HANDRAIL DETAILS
J263–D–673	2684358–G5T–TM1–ME–DD–708	LEVEL INDICATOR STAIR DETAILS 05

NOZZLE SCHEDULE

NOZZLE MARK	NPS	SCH	FLANGE CLASS	FLANGE TYPE	DESCRIPTION	POSITION ORIENTATION	POSITION ELEV. /RADIUS	POSITION PROJ.	NOZZLE RE–INFORCEMENT
A1	400	60	150	WNRF	INLET NOZZLE & DISPERSION PIPE	2405 (P)	788	18420 (P)	1022x1289x43 TH. INSERT
A1 STUB	50	160	150	WNRF	INLET STUB NOZZLE	2405 (P)	1288	18132 (P)	–
A2	400	60	150	WNRF	SPILLBACK NOZZLE & DISPERSION PIPE	7376 (P)	788	17050 (P)	1022x1289x43 TH. INSERT
A2 STUB	50	160	150	WNRF	SPILLBACK STUB NOZZLE	7376 (P)	1288	16762 (P)	–
A3	50	160	150	WNRF	FLUSH NOZZLE	252.00°	615	150	–
A4	400	XS	150	WNRF	SPARE NOZZLE WITH BLIND	9176 (P)	788	16153 (P)	1022x1289x43 TH. INSERT
A5	200	XS	150	PAD	FOAM CHAMBER INLET NOZZLE	337.00°	23277	16	343 OD X 40 TH. AFTER MACHINING
A6	200	XS	150	PAD	FOAM CHAMBER INLET NOZZLE	90.00°	23277	16	343 OD X 40 TH. AFTER MACHINING
A8	200	XS	150	PAD	FOAM CHAMBER INLET NOZZLE	205.25°	23277	16	343 OD X 40 TH. AFTER MACHINING
A7	400	60	150	WNRF	INLET NOZZLE & DISPERSION PIPE	5576 (P)	788	17720 (P)	1022x1289x43 TH. INSERT
A7 STUB	50	160	150	WNRF	INLET STUB NOZZLE	5576 (P)	1288	17485 (P)	–
B1	600	40	150	WNRF	OUTLET NOZZLE & VORTEX BREAKER	900 (P)	890	18554 (P)	1427x1593.5x43 TH. INSERT
B2	600	XS	150	WNRF	SPARE NOZZLE WITH BLIND	4500 (P)	890	18023 (P)	1427x1593.5x43 TH. INSERT
B3	600	XS	150	WNRF	SPARE NOZZLE WITH BLIND	144.00°	890	300	1427x1593.5x43 TH. INSERT
D1	150	XS	150	WNRF	DRAIN NOZZLE	160.00°	690	200	572x966x43 TH. INSERT
D2	50	160	150	WNRF	FLUSH NOZZLE	249.00°	615	150	–
G1	200	STD	150	WNFF	GAUGE HATCH & STILLING WELL	5.75°	16760	2600 FROM CURB L	–
L1	300	40 05	150	WNRF	LEVEL TRANS. NOZZLE & STILL. WELL	3.75°	16760	1835 FROM CURB L	–
L2	100	STD	150	WNRF	LEVEL SWITCH NOZZLE & STILL. WELL	358.90°	16760	1835 FROM CURB L	–
L3	600	–	–	–	LEVEL FLOAT NOZZLE	132.22° SEE ROOF PLAN	17100	1600 FROM CURB L	–
P1	80	XS	150	WNRF	PRESSURE TRANSMITTER NOZZLE	6.00°	615	175	–
S1	50	160	150	WNRF	SAMPLE LINE NOZZLE	252.00°	1510	150	–
S2	50	160	150	WNRF	SAMPLE LINE NOZZLE	266.00°	10600	150	–
S3	50	160	150	WNRF	SAMPLE LINE NOZZLE	313.50°	20680	150	–
T1	50	40S 05	150	WNRF	TEMP. NOZZLE & STILLING WELL	0.9°	16760	1835 FROM CURB L	–
V1					MUSHROOM VENT NOZZLE	310.50°	1524	–	–
V2					VACUUM BREAKER ON AIFR	–	–	–	–
V3	900x240	40 05	–	–	OVERFLOW SLOTS & DOWNPIPES	34.00°	22000 BOTTOM OF OPENING	–	–
V4	900x240	40	–	–	OVERFLOW SLOTS & DOWNPIPES	109.00°	22000 BOTTOM OF OPENING	–	–
V5	900x240	40 05	–	–	OVERFLOW SLOTS & DOWNPIPES	214.25°	22000 BOTTOM OF OPENING	–	–
V6	900x240	40	–	–	OVERFLOW SLOTS & DOWNPIPES	346.50°	22000 BOTTOM OF OPENING	–	–
M1	610x610				ROOF MANWAY (HINGED COVER)	352.00°	16000	–	–
M2	600	XS	150	WNRF	SHELL MANWAY (C/W HINGED COVER)	120.00°	750	300	1427x1453.5x43 TH. INSERT
M3	600	XS	150	WNRF	SHELL MANWAY (C/W HINGED COVER)	240.00°	750	300	1427x1453.5x43 TH. INSERT
M4	600	XS	150	WNRF	SHELL MANWAY (C/W HINGED COVER) 05	352.00°	750	300	1427x1453.5x43 TH. INSERT
M5	600				ON AIFR	–	–	–	
	610x610				ROOF MANWAY FOR RETRACTABLE EARTH	REELER 94.50°	–	–	
	610x610				ROOF MANWAY FOR RETRACTABLE EARTH	REELER 274.50°	–	–	

05

TROTECH DRAWING NO.	CLIENTS DRAWING NO.	DESCRIPTION
G5T JV–WM1A	2684358–G5T–TM1–QA–MA–001	WELD MAP 1 (ACCUMULATOR TANKS)
G5T JV–WM2A	2684358–G5T–TM1–QA–MA–002	WELD MAP 2 (ACCUMULATOR TANKS)
G5T JV–WM3A	2684358–G5T–TM1–QA–MA–003	WELD MAP 3 (ACCUMULATOR TANKS)
G5T JV–WM4A	2684358–G5T–TM1–QA–MA–004	WELD MAP 4 (ACCUMULATOR TANKS)
G5T JV–RT1A	2684358–G5T–TM1–QA–MA–009	RT MAP OF BOTTOM PLATES (ACCUMULATOR TANKS)
G5T JV–RT2A	2684358–G5T–TM1–QA–MA–010	RT MAP OF SHELL PLATES (ACCUMULATOR TANKS)
G5T JV–RT3A	2684358–G5T–TM1–QA–MA–011	RT MAP OF MISCELLANEOUS ITEMS (ACCUMULATOR TANKS)

GROUP FIVE structured ingenuity

TROTECH ENGINEERING AFRICA (PTY) LTD

TROTECH DRG. NO. J263–D–601 | REV. 05

VENDOR STATUS

EXTERNAL DOCUMENT REVIEW FOR CONFORMITY WITH SPECIFICATIONS AND DESIGN DRAWINGS

A	A = ACCEPTED – SUBMIT FINAL QUANTITIES – MANUFACTURE MAY PROCEED	NMPP REVISION NO.
B	B = ACCEPTED EXCEPT AS NOTED – MAKE CHANGES & SUBMIT FINAL– MANUFACTURE MAY PROCEED AS NOTED	AUTHORISATION SIGNATURE
C	C = NOT ACCEPTED – CORRECT & RE–SUBMIT FOR APPROVAL	
I	I = IS RETAINED FOR INFORMATION ONLY	PRINT NAME
F	F = FINAL RECEIVED INCLUDING ELECTRONIC	DATE

REVIEW GIVEN RELATES TO CONCEPT ONLY AND DOES NOT ABSOLVE THE VENDOR OF THE ENGINEERING OR LEGAL RESPONSIBILITY

REV	DATE	STATUS	REVISION DESCRIPTION	BY	CHK	APP	REFERENCE DRG NO	DATE	REFERENCE DRG DESCRIPTION
00	03.05.2011		ISSUED FOR APPROVAL	B.S.	M.S.	M.S.	2684358–J–TM1–PI–DD–009	24.06.11	NOZZLE ORIETATION SHEETS FOR 50–A11 LSD ACCUMULATOR
01	30.06.2011		UPDATED & ISSUED FOR APPROVAL	B.S.	M.S.	M.S.			
02	14.09.2011		UPDATED & ISSUED FOR APPROVAL	B.S.	M,S.	M.S.			
03	14.10.2011		UPDATED & ISSUED FOR APPROVAL	B.S.	M.S.	M.S.			
04	30.12.2011		UPDATED & ISSUED FOR APPROVAL	B.S.	M.S.	M.S.			
05	01.05.2012		UPDATED & ISSUED FOR APPROVAL	B.S.	M.S.	M.S.			

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NMPP Alliance
Arup – WorleyParsons JV

Uhde

NMPP PROJECT
TM1 (COASTAL)
50–A11 ACCUMULATOR LSD TANK
GENERAL ARRANGEMENT

NMPP DRG.NO. 2684358–G5T–TM1–ME–DG–045

PROJECT: TRANSNET PIPELINES
NEW MULTI PRODUCT PIPELINE PROJECT.

DRAWN	B.S.	DATE	19–04–2011
REVIEWED	M.S.	DATE	19–04–2011
CHECKED	M.S.	APPROVED	19–04–2011
SCALE	AS NOTED	ENG.DESIGNER	

PL: REV 0 5