
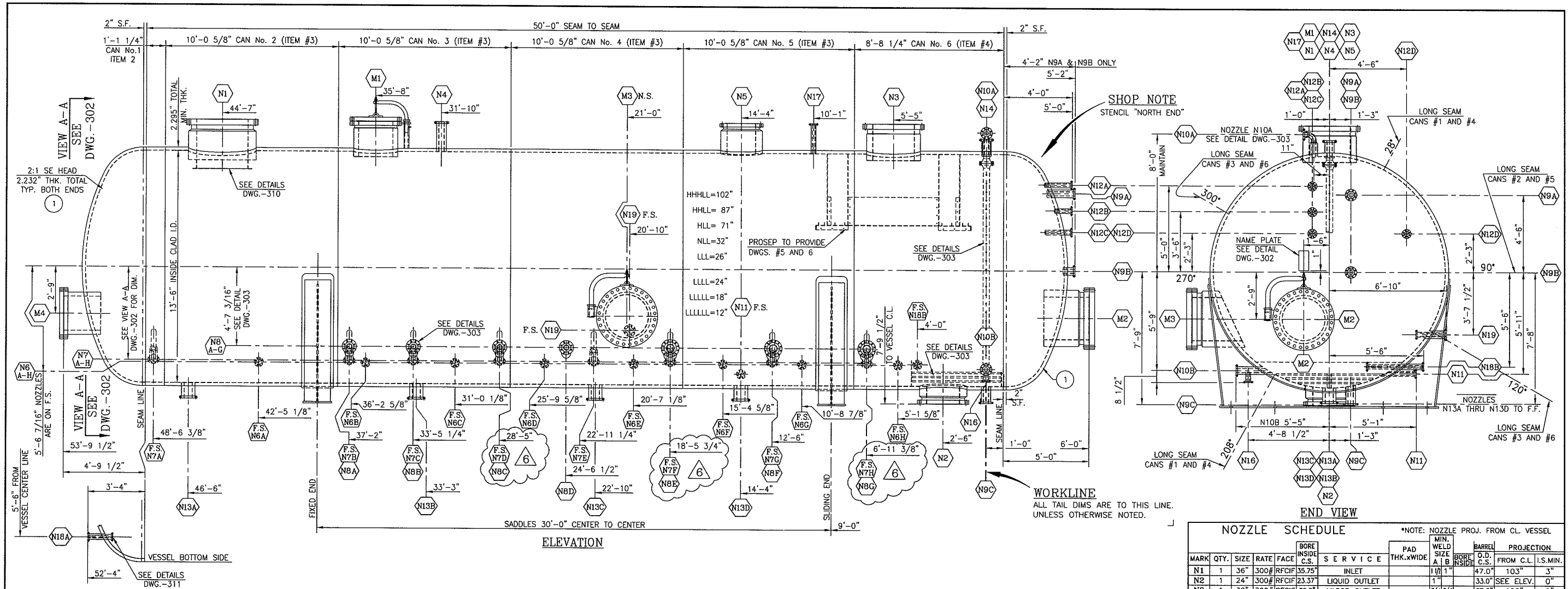
 WorleyParsons resources & energy	
<u>Kim Tjenda -</u>	<u>09/03/09</u>
REVIEWED BY	DATE
<small>Purchaser's review and/or release for fabrication shall not be construed as relieving either of any obligation or responsibilities with respect to these documents of the items to be furnished by either pursuant thereto.</small>	
<input type="checkbox"/>	VC RELEASED FOR FABRICATION - CORRECT AND RESUBMIT
<input checked="" type="checkbox"/>	VF FINAL - DO NOT RESUBMIT
<input type="checkbox"/>	VI FINAL - INFORMATION ONLY
<input type="checkbox"/>	VN NOT RELEASED FOR FABRICATION - CORRECT AND RESUBMIT
<input type="checkbox"/>	VM FINAL, MANUAL(S) - NOT RETURNED TO VENDOR
<input type="checkbox"/>	VEF FINAL - ELECTRONIC FILES
<input type="checkbox"/>	VV VOID - SEE COMMENTS ON DOCUMENTS
<input type="checkbox"/>	E0 DO NOT ISSUE THIS REVISION SUPERCEDED BY ANOTHER REVISION

A01

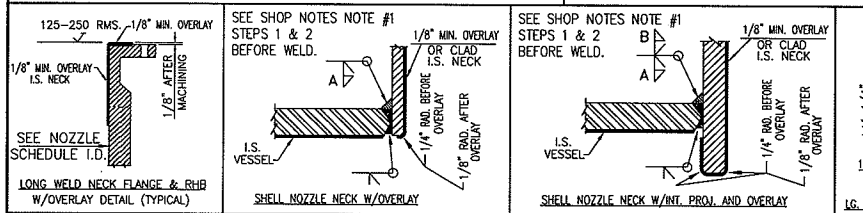
VND -	DISC	PROJ#	P.O.	SEQ	SHT	REV	TAG
	VS	37305244-02	0019	00002	001	006	13P-26011
					# 3		23.S.6



SHOP NOTES:

- SEE BILL OF MATERIAL ON DWG.-302
- SEE SHOP NOTES ON DWG.-302
- SEE PAINT PER SPC-MA-00002 (PAINT REQUIREMENTS) ON DWG.-302
- NOZZLES N11, N18B & N19, (F.S. N6A THRU (F.S. N6H) AND (F.S. N7A THRU (F.S. N7H) ARE LOCATED ON FAR SIDE SEE VIEW A-A ON DWG.-302 FOR DETAILS
- SEE SHEETS 3, 4, 5, 6, 7 & 8 FOR ALL INTERNAL DETAILS

PROSEP NOTE:
PLEASE PROVIDE INTERNAL DETAILS (SUPPORTS AND OR PIPE DETAILS).



REV.	DESCRIPTION	DATE	BY	APPROVED
6	REV. NOZZLES N6C/N7D TO 28"-5", N6E/N7F TO 18"-5 3/4" & N6G/N7H TO 6"-11 3/8"	08/04/09	SG	FS
5	REV. NOZZLE N19 PROJECTION AND DIMENSION OF CENTER FROM 43" TO 43 1/2"	07/23/09	SG	FS
4	REV. NOZZLE N19 PROJECTION AND DIMENSION OF CENTER FROM 48" TO 43"	07/21/09	SG	FS
3	REV. NOZZLES ELEVATIONS PER PROSEP REQUEST	07/01/09	SG	FS
2	REV. NOZZLES ELEVATIONS, DAVIT ARM ORIENTATION & N15 DELETED PER PROSEP	04/07/09	SG	FS
1	ISSUED FOR FABRICATION	01/19/09	JB	BN
0	ISSUED FOR APPROVAL	12/17/08	JB	BN
A	ISSUED FOR APPROVAL	04/23/08	JB	BN
		02/05/08	JB	BN

GENERAL NOTES:

- ONE VESSEL REQUIRED MARK NO. SEE TITLE BLOCK
- VESSEL FABRICATOR SHALL FURNISH AND INSTALL ALL PARTS UNLESS OTHERWISE NOTED.
- FLANGE FACE FINISH TO BE 125-250 MICRO INCH R_a.
- NOZZLE PROJECTIONS ARE FROM CENTER OF VESSEL OR FROM WORK-LINE TO EXTREME FACE OF FLANGE.
- ORIENTATION IS FROM CENTER LINE OF VESSEL.
- SEE NOZZLE SCHEDULE FOR PROJECTIONS
- FAB. TOLERANCE: BP STANDARD No. 6000-STD-VS-00-00200
- CLOSER TOLERANCES WHEN REQUIRED, SHALL BE SHOWN ON FABRICATION DRAWINGS. (TOLERANCES ARE NOT CUMULATIVE)
- LOCATION OF FRONT SADDLE TO REF. LINE ± 1/8" CTR. TO CTR. OF ANCHOR BOLT HOLES ± 1/8" AND FROM SADDLE TO SADDLE ± 1/4".
- TANGENT LINE/TANGENT LINE NOT MORE THAN ± 1/2".
- LOCATION OF SADDLE FROM C.L. OF VESSEL 1/4" AND BASE OUT OF LEVEL ± 1/8" MEASURED AT EXTREME EDGES.
- LOCATION OF MANWAY FROM REF. LINE ± 1/2"
- LOCATION OF ANY NOZZLE OR CUP FROM REF. LINE ± 1/4" UNLESS OTHERWISE INDICATED ON DWG.
- FACE OF MANWAY TO C.L. OF VESSEL ± 1/2"
- C.L. OF ANY SUPPORT OR CUP BOLT HOLE TO C.L. OF VESSEL ± 1/8"
- MISALIGNMENT OF WELD JOINTS AND OUT OF ROUNDNESS TOLERANCE SHALL BE PER ASME CODE AND OUT OF ALIGNMENT NOT MORE THAN 1/4" AT ANY POINT ALONG A STRAIGHT LINE 20'-0" LG. BUT NOT MORE THAN 3/4" FOR ANY LENGTH.
- TOLERANCE ON DISTANCE BETWEEN TWO INSTRUMENT LEVEL CONNECTIONS ± 1/8" GASKET FACES TO BE IN ONE PLANE WITHIN 1/32" (TO BE MEASURED WITH STRAIGHT EDGE)
- CIRCUMFERENTIAL DEVIATION FROM TRUE ORIENTATION OF NOZZLES, MANWAYS & SUPPORTS SHALL NOT EXCEED ± 1/8" MEASURED ALONG PERIMETER OF SHELL. BOLT HOLE ORIENTATION OF NOZZLES MAY VARY ± 1/16" AT BOLT CIRCLE AND HORIZONTAL OR VERTICAL DEFLECTION OF NOZZLE FACES OR SUPPORTS FROM PLANES NORMAL TO NOZZLE C.L.S. OR TO VESSEL C.L. SHALL NOT BE MORE THAN ± 1/2 DEGREE.
- ALL NOZZLES (EXCEPT NOZZLES WITH ATTACHED INTERNAL PIPING AND NOZZLE N3), SHALL BE CUT FLUSH WITH VESSEL I.D. AND BE GROUND SHARP W/INSIDE WALL (BUT NOT FLUSH) AND ROUNDED TO ELIMINATE ALL SHARP CORNERS.
- ALL REINFORCING WEAR PLATES SHALL HAVE AT LEAST ONE 1/4" NPT HOLE AT ± 3/4" FROM LOWEST POINT.
- ALL BOLT HOLES STRADDLE CENTER LINES EXCEPT AS NOTED.
- R.C. TECH. TO PROVIDE GASKETS FOR HYDROTESTING.
- NOZZLE N15 AND MANWAYS M1, M2, M3 & M4 SHALL BE FURNISHED WITH BLIND FLG., STUDS AND GASKETS. RCT TO PROVIDE TWO SPARE SERVICE GASKETS FOR NOZZLE N15 AND EACH MANWAY. GASKETS SHALL BE BOXED W/TAG#, AND SHIPPED WITH VESSEL.

DESIGN DATA:

- DESIGN BASIS: ASME SECT. VIII DIV. 1 2007 EDITION
- STAMPING REQUIREMENTS: YES
- DESIGN INT. PRESS. @ TEMP. 500 PSIG @ 300 °F
- DESIGN EXT. PRESS. @ TEMP. 15 PSIG @ 300 °F
- MINIMUM DESIGN METAL TEMP. -50 °F @ 500 PSIG
- SPECIFIC GRAVITY OF LIQUID .94
- RADIOGRAPHING RT-1
- JOINT EFFICIENCY: SHELL 100% HEADS 100%
- NOM. CORR. ALLOW. SHELL 0.0" HEADS 0.0" NOZZ. 0.0"
- HYDROSTATIC TEST PRESS. (NEW & COLD) 674 PSIG
- M.A.W.P. @ DESIGN TEMP. 514 PSIG LIMITED BY: HEADS
- LOADS: WIND 110 MPH EARTHQUAKE SITE CLASS B
- INSULATION 4" THK. BY PROSEP.

WELDING PROCEDURES
RCT-103-2, RCT-110-1, RCT-138-2, RCT-156
RCT-157-2, RCT-166-2 AND RCT-258-3

MATERIALS

SHELL SA-516-70N W/316L CLAD NOZZLES SA-350-LF2 CL1 W/316L OVERLAY
HEADS SA-516-70N W/316L CLAD SUPPORTS SA-516 70N
INTERNAL SA-240 & 312/316L BOLTS/NUTS INT. SA-193 B8M/SA-194-BM
EX. STUDS SA-320-L7 EX. ELBOW SA-403 WP 316L **
EX. NUTS SA-194-4 EX. & INT. FLANGES SA-182 F 316L **

GASKETS SPIRAL WOUND NON-ASBESTOS FILLED WITH 304 SS WINDING AND 1/8" OUTER C.S. CENTERING & S.S. INNER RING, CL-300 B1E.20 FS CG1 OR EQUAL

NOTE: ALL MATERIAL TO BE IN COMPLIANCE WITH NACE MR0175 LATEST EDITION
SHOP NOTE: ** ONLY NOZZLE N10A RFWN FLANGE AND ELBOW ARE SA-182/403-316L

ProSep Technologies, Inc.
HOUSTON, TEXAS 281.504.2040
TAG No. VSP-26011 P.O. No. -
PROJECT NAME BPXA ZPAD GAS
PARTIAL PROCESSING (GPP)
DESCRIPTION INLET SEPARATOR
SIZE 162" I.D. x 50'-0" SM/SM
PROJECT No. 0801
PROSEP SERIAL No. 0801-1-301

PROSEP DATA PLATE

7" ITEM 29
NAMEPLATE BRACKET DETAIL

3/7161
DETAIL ITEM 29

NAT'L. BD. LAIER
CERTIFIED BY
R.C. TECHNICAL WELDING & FAB. INC.
STAFFORD, TEXAS

MAWP: 514 PSIG AT: 300 °F
MDMT: -50 °F AT: 514 PSIG
DES. PRES. 500 PSIG AT: 300 °F
EXT. PRES. 15 PSIG AT: 300 °F
SERIAL No. 11380 WEIGHT: 330,105 LBS
YEAR BUILT: 2009 PROJ.: 0801
P.O. No. 2597 PLANT:
EQUIP.: VSP-26011

NOZZLE SCHEDULE *NOTE: NOZZLE PROJ. FROM CL VESSEL

MARK	QTY.	SIZE	RATE	FACE	BORE INSIDE C.S.	SERVICE	PAD THK. X WIDE	MIN. WELD SIZE A/B	BARREL BORE INSIDE	PROJECTION FROM C.L. I.S. MIN.
N1	1	36"	300#	RFCIF	35.75"	INLET		1 1/2"	47.0"	103" 3"
N2	1	24"	300#	RFCIF	23.37"	LIQUID OUTLET		1"	33.0"	SEE ELEV. 0"
N3	1	30"	300#	RFCIF	29.0"	VAPOR OUTLET		3/4 3/4"	37.5"	102" 2"
N4	1	4"	300#	RFHB	3.83"	VENT		1/2"	6.62"	102" 0"
N5	1	20"	300#	RF-V3	20.0"	PSV		3/8"	29.25"	102" 0"
N6A-N6H	8	3"	300#	RFLWN	2.00"	SANDJET INLETS		3/8"	3.31"	DETAIL DET'L
N7A-N7H	8	3"	300#	RFHB	2.90"	SANDJET OUTLETS		3/8"	5.38"	DETAIL DET'L
N8A-N8D	4	4"	300#	RFHB	3.83"	NUCLEONIC POINT LT		3/8"	6.62"	DETAIL 0"
N8E-N8G	3	6"	300#	RFHB	5.76"	NUCLEONIC POINT LT		3/8"	9.38"	DETAIL 0"
N9A-N9B	2	3"	300#	RFHB	2.90"	LT/LG BRIDLE		3/8"	5.38"	SEE ELEV. 0"
N9C	1	4"	300#	RFHB	3.83"	LT/LG BRIDLE		3/8"	6.62"	END VIEW 0"
N10A	1	3"	300#	RFHB	2.90"	PRESSURE DIFFERENTIAL		3/8"	5.38"	SEE DETAIL 0"
N10B	1	3"	300#	RFHB	2.90"	PRESSURE DIFFERENTIAL		3/8"	5.38"	END VIEW 0"
N11	1	2"	300#	RFLWN	2.00"	TEMPERATURE TRANSMITTER		3/8"	3.31"	END VIEW 0"
N12A-N12D	4	2"	300#	RFLWN	2.00"	PRESSURE TRANSMITTER		3/8"	3.31"	SEE ELEV. 0"
N13A-N13D	4	6"	300#	RFHB	5.76"	DRAIN		3/8"	9.38"	92" 0"
N14	1	4"	300#	RFHB	3.83"	LEVEL TRANSMITTER NOR		1/2 1/2"	6.62"	92" 1"
N15						NOZZLE DELETED				
N16	1	2"	300#	RFLWN	2.00"	FLUSHING CONN.		3/8"	3.31"	SEE END VIEW 0"
N17	1	2"	300#	RFLWN	2.00"	DP XM TR		3/8"	3.31"	102" 0"
N18A-N18B	2	2"	300#	RFHB	1.94"	HEAD SAND JET INLET		3/8"	3.94"	W/ELEV.8/END DET'L
N19	1	3"	300#	RFHB	2.90"	AUX. SAND JET INLET		3/8"	5.38"	END VIEW DET'L
M1	1	24"	300#	RF-V1	24.0"	MANWAY W/BLD. & DAVIT		1 1/4 1/4"	30.75"	102" 2"
M2	1	30"	300#	RFCIF	30.0"	MANWAY W/BLD. & DAVIT		7/8 3/4"	39.5"	SEE ELEV. 2 1/2"
M3	1	30"	300#	RFCIF	30.5"	MANWAY W/BLD. & DAVIT		3/8 3/8"	39.5"	96" 3"
M4	1	24"	300#	RFHB	24.0"	MANWAY W/BLD. & DAVIT		1 1/4 1/4"	29.62"	SEE ELEV. 2 1/2"

Field & Shop Note

This vessel shall be lifted using spreader bar or its equivalent during all lifting operations.

VESSEL WEIGHT

FABRICATED: 330,105 LBS.
EMPTY: 330,108 LBS.
OPERATING: 673,359 LBS.
FULL OF WATER: 776,512 LBS.

MFR. NAME: R.C. TECHNICAL WELDING & FABRICATION, INC.
STREET / P.O. BOX: 12814 MULA LANE
CITY: STAFFORD STATE: TEXAS ZIP: 77477
TELEPHONE NO.: (281) 933-6004 FAX NO.: (281) 933-1548
ENGINEERING CONTACT: FERMIN SANDOVAL P.O.: 2597
MFR. SERIAL NO.: 11380 SHOP ORDER NO.: S/O 11380
MFR. DWG. NO.: D-11380-1 REV.: 6

ProSep Technologies, Inc. Houston, Texas

PROJECT: BPXA ZPAD GAS PARTIAL PROCESSING (GPP)

TITLE: 162" I.D. x 50'-0" SM TO SM INLET SEPARATOR VSP-26011

JOB NO: 0801 DRAWING NO: 0801-1-301 REV: 6