

**RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:**

Bid Receiving
PWGSC
33 City Centre Drive
Suite 480
Mississauga
Ontario
L5B 2N5
Bid Fax: (905) 615-2095

Revision to a Request for a Standing Offer

Révision à une demande d'offre à commandes

Regional Individual Standing Offer (RISO)

Offre à commandes individuelle régionale (OCIR)

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Offer remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'offre demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address

**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Issuing Office - Bureau de distribution

Public Works and Government Services Canada
Ontario Region
33 City Centre Drive
Suite 480
Mississauga
Ontario
L5B 2N5

Title - Sujet Storage Tanks		
Solicitation No. - N° de l'invitation K3D33-121331/A		Date 2013-03-19
Client Reference No. - N° de référence du client K3D33-121331		Amendment No. - N° modif. 001
File No. - N° de dossier TOR-2-35308 (015)	CCC No./N° CCC - FMS No./N° VME	
GETS Reference No. - N° de référence de SEAG PW-\$TOR-015-6211		
Date of Original Request for Standing Offer Date de la demande de l'offre à commandes originale		2013-02-21
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2013-04-03		Time Zone Fuseau horaire Eastern Daylight Saving Time EDT
Address Enquiries to: - Adresser toutes questions à: Abela, Aaron		Buyer Id - Id de l'acheteur tor015
Telephone No. - N° de téléphone (905) 615-2061 ()		FAX No. - N° de FAX (905) 615-2060
Delivery Required - Livraison exigée		
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:		
Security - Sécurité This revision does not change the security requirements of the Offer. Cette révision ne change pas les besoins en matière de sécurité de la présente offre.		

Instructions: See Herein

Instructions: Voir aux présentes

Acknowledgement copy required Accusé de réception requis	Yes - Oui <input type="checkbox"/>	No - Non <input type="checkbox"/>
The Offeror hereby acknowledges this revision to its Offer. Le proposant constate, par la présente, cette révision à son offre.		
Signature	Date	
Name and title of person authorized to sign on behalf of offeror. (type or print) Nom et titre de la personne autorisée à signer au nom du proposant. (taper ou écrire en caractères d'imprimerie)		
For the Minister - Pour le Ministre		

Solicitation No. - N° de l'invitation

K3D33-121331/A

Amd. No. - N° de la modif.

001

Buyer ID - Id de l'acheteur

tor015

Client Ref. No. - N° de réf. du client

K3D33-121331

File No. - N° du dossier

TOR-2-35308

CCC No./N° CCC - FMS No/ N° VME

Solicitation Amendment No. 001 is being issued to reflect the following:

A) To provide higher resolution .pdf documents to help read the fine print for each drawing.

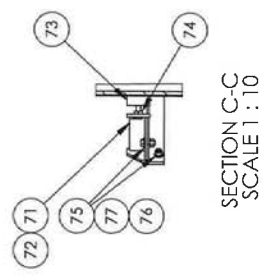
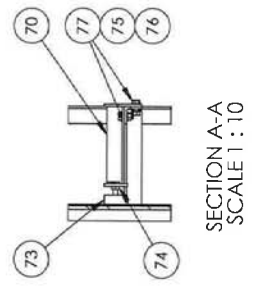
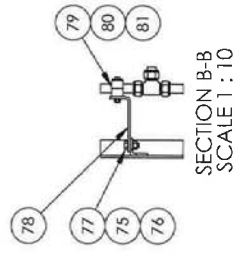
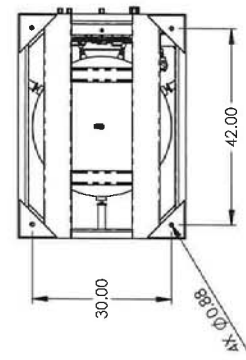
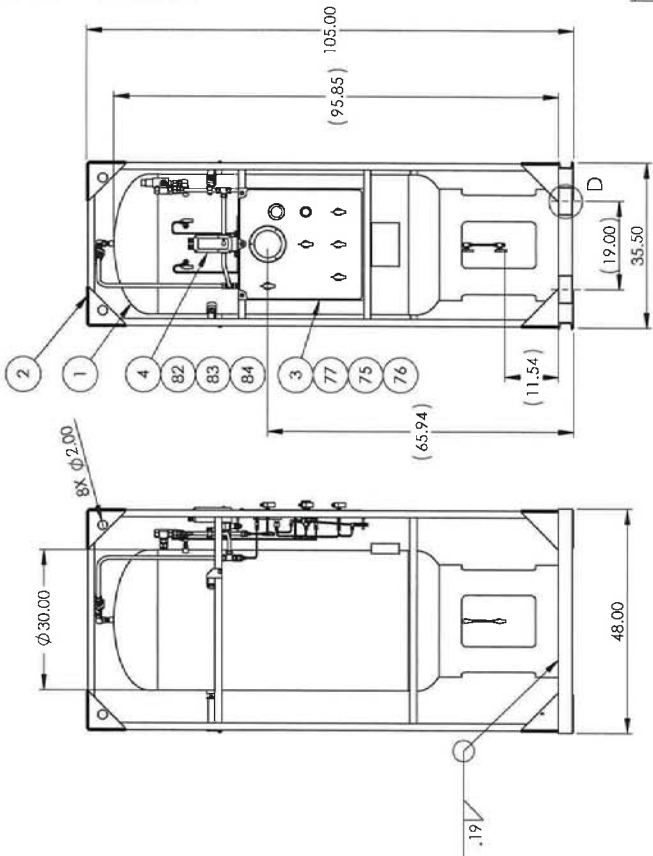
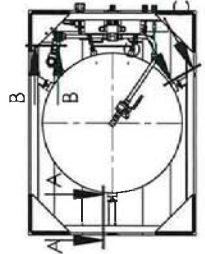
See attached.


ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME




 OCT 22/2012

BILL OF MATERIALS				DESCRIPTION		NOTES	
Item	QTY	Part No.	MATERIAL	CRN			
1	1	5825-0-0 Vessel	Stainless Steel		Vessel		See dwg UA-TANK-0010-00
2	1	5826-0-0 Frame	SS 304	N/A	Frame		See dwg UA-TANK-0000-00
3	1		See BOM	N/A	Panel		See dwg UA-TANK-0100-00
4	1	ExMax-45 90-SF-A-CSA		NA	Emergency Dump valve actuator - Schiebeck		CSA Cert. 2236405 + sup. 2344516 Match with UA-TANK-0200 and UA-TANK-0201 using Swagelok SS-MB-43-F05-17ISO-M
70	1				Pad Mount, Rear		
71	1				Pad Mount, Left		
72	1				Pad Mount, Right		
73	3	315-242 (Spacnaur)	Vulcanized Natural Rubber		Foot Pad		
74	3		SS 316		Nut, Hex, Jam - 375-16 UNC		
75	22		SS 316		Washer, Narrow - 375		
76	11		SS 316		Nut, Hex - 375-16 UNC		
77	11		SS 316		Bolt, Hex - 375-16 UNC x 1.00		
78	1		SS 304		Mag Brkt - 18 x 2.50 x 6.00		
79	1	304-SS-PA-12T	Polyamide		Clamp Support, Swagelok - 75 Tube		
80	2		SS 316		Washer, Narrow - 250		
81	2		SS 316		Nut, Hex - 25-20 UNF		
82	4		SS 316		Bolt, Hex - 50-13 UNC x 1.25		
83	4		SS 316		Nut, Hex - 50-13 UNC		
84	8		SS 316		Washer, Narrow - 50		





Precision Valve Engineering Ltd.
 1200 Highway 10, Suite 100
 Mississauga, Ontario L4V 1P2
 Tel: 905-880-8880
 Fax: 905-880-8881



Environment Canada
 Meteorological Service of Canada
 Service Météorologique du Canada

TITLE:
 HYDROGEN STORAGE TANK
 ASSEMBLY

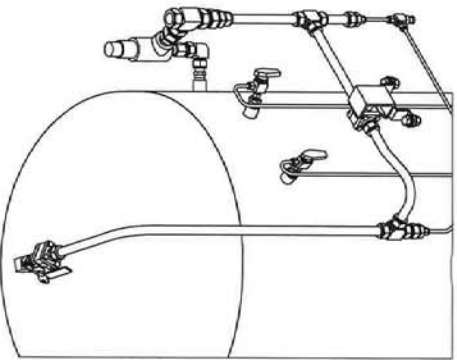
DRAWING NUMBER:
 UA-TANK-0000-00

REVISION:
 DATE:

- NOTES:
- ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED.
 - USE PTFE TAPE ON ALL NPT FITTINGS.
 - USE LOCTITE NICKEL ANTI-SEIZE FOR ALL BOLTED JOINTS.
 - ALL OPENINGS MUST BE CAPPED OR PLUGGED FOR STORAGE AND TRANSPORTATION.

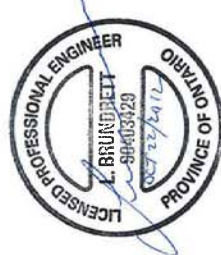
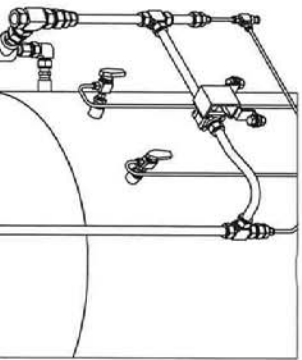
DETAIL D
SCALE 1:10

BILL OF MATERIALS					DESCRIPTION		Notes	
Item	QTY	PartNo	MATERIAL	CRN				
1	1	5825-0.0-Vessel	Stainless Steel		Vessel		See dwg UA-TANK-0010-00	
35	1	919DCED1BKE0275 1/2" x 3/4"	Bronze	OC767 540123676	Relief Valve - Kunkle 275 psi			
36	1	Swagelok SS-163TS12-JL		OA12577.5C	Valve - 750 Tube, 1/4 Turn			
37	2	Swagelok SS-1210-9	SS 316	OA12577.5C	Elbow, 90 - 75 Tube			
38	2	Swagelok SS-1211-PC	SS 316	OA12577.5C	Port Connector - 750 Tube			
39	2	Swagelok SS-12-TA-1-8	SS 316	OA12577.5C	Tube Adapter, Male - 750 OD, 1/2 NPT			
41	1	Swagelok SS-1610-1-12	SS 316	OA12577.5C	Std Male Conn - 1.00 Tube to 3/4 NPT			
42	1	Swagelok SS-1610-3	SS 316	OA12577.5C	Tee, Union - 1.00 Tube			
43	1	Swagelok SS-1610-6-12	SS 316	OA12577.5C	Union - 1.00 Tube, 75 Tube			
44	2	Swagelok SS-1210-3	SS 316	OA12577.5C	Tee Union - 75 Tube			
45	2	Swagelok SS-1210-6-4	SS 316	OA12577.5C	Union - 75 Tube, 25 Tube			
46	1	Swagelok SS-400-3-4-1FT	SS 316	OA12577.5C	Tee, Run, Female - 25 Tube, 1/4 NPT			
47	2	Swagelok SS-43GS4-A-LH-SHD		OA12577.5C	Valve - 250 Tube, 1/4 Turn			
48	3	Swagelok SS-4-TA-1-8	SS 316	OA12577.5C	Tube Adapt - 25 Tube 1/2 NPT			
49	2	Swagelok SS-43GS4-LH-SHD	SS 316	OA12577.5C	Valve 2 Way - 25 Tube			
50	1		TP316/316L SMLS	NA	Tube - 750 OD 18 Ga. (.049) x 37.59		See Detail on UA-TANK-0012-00	
51	1		TP316/316L SMLS	NA	Tube - 750 OD 18 Ga. (.049) x 11.36		See Detail on UA-TANK-0012-00	
52	1		TP316/316L SMLS	NA	Tube - 750 OD 18 Ga. (.049) x 9.44			
53	1		TP316/316L SMLS	NA	Tube - 750 OD 18 Ga. (.049) x 9.69			
54	1		TP316/316L SMLS	NA	Tube - 750 OD 18 Ga. (.049) x 4.00		See Detail on UA-TANK-0012-00	
56	1		TP316/316L SMLS	NA	Tube - 250 OD 20 Ga. (.035) x 38.09			
57	1		TP316/316L SMLS	NA	Tube - 250 OD 20 Ga. (.035) x 9.29		See Detail on UA-TANK-0012-00	
58	1		TP316/316L SMLS	NA	Tube - 250 OD 20 Ga. (.035) x 34.68		See Detail on UA-TANK-0012-00	
59	1		TP316/316L SMLS	NA	Tube - 250 OD 20 Ga. (.035) x 3.72			
60	1		TP316/316L SMLS	NA	Tube - 250 OD 20 Ga. (.035) x 23.55		See Detail on UA-TANK-0012-00	
61	1		TP316/316L SMLS	NA	Tube - 250 OD 20 Ga. (.035) x 6.00			
62	1		SA-182 F316/316L	NA	Plug - 1/4 NPT			
63	2	Swagelok SS-1611-PC	SS 316	OA12577.5C	Connector, Port - 1.00 Tube			
64	1	Swagelok SS-12-TA-7-8	SS 316	OA12577.5C	Tube Adapt, Fem - 75 Tube, 3/4 NPT			



NOTES:

1. ALL COMPONENTS ARE SWAGELOK SUPPLY UNLESS OTHERWISE NOTED.
2. ASSEMBLY BY SWAGELOK TRAINED TECHNICIAN ONLY
3. USE PTFE TAPE ON ALL NPT FITTINGS.
4. USE LOCTITE ANTI-SEIZE ON ALL BOLTED JOINTS.
5. USE ONLY SEAMLESS TUBING.



Environment Canada
 Meteorological Service of Canada
 Service Météorologique du Canada

TITLE:
 HYDROGEN STORAGE TANK

DRAWING NUMBER:
 UA-TANK-0010-00

REVISION:
 DATE:

VIEW E

BILL OF MATERIALS		
ITEM QTY	DESCRIPTION	MATERIAL
5 1	Shell - 30.00 OD, 31 THK, 54.00 Long	SA-240 316
6 2	Top Nipples 30.00 OD, 2.12 THK, 12.00 Long	SA-240 316
7 1	Skirt - 24.00 OD, 11 THK, 25.75 Long	SA-240 304
8 5	Threaded Full Coupling, Class 3000, 0.50 NPS	SA-182 F 316
9 1	Bracket, Nameplate	SS

NOTES:

- All dimensions in inches
- All welds shall be neat in appearance, free from slag and other defects.
- Vessel to be cleaned of scale, oil, weld spatter and all other foreign material, prior to hydrostatic test
- All welds shall be radiographed in accordance with ASME Section IX
- Maximum misalignment of butt joints is limited to .25T (Category A, B, C, D up to 1/2" thick)
- All couplings conform to B16.11 standards
- Nozzle elevations are critical
- MTI is required for all welds, nozzles and fittings
- All unspecified welds to be 25% fillet
- Welding in accordance with ASME Section IX
- Nameplate bracket by fabricator
- External surfaces of the tank and skirt to have a uniform glass bead finish.

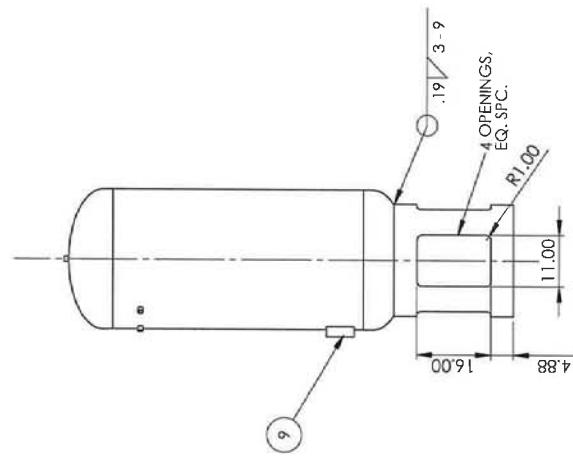
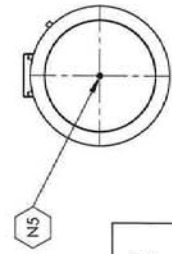
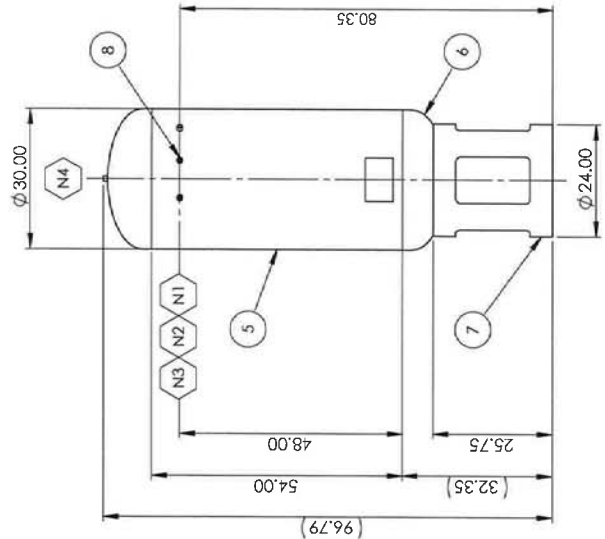
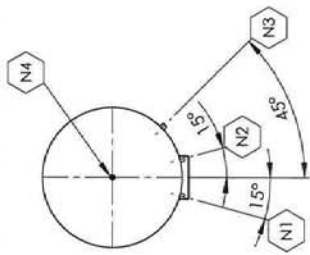
DESIGN DATA	
Code	ASME VIII-1 2010 ed. 2011 add.
Design Code	UBC-1197
Seismic Code	N/A
Wind Code	N/A
Design Conditions	
MAWP - Int / Ext	300 / 0 psi @ 122 yf
MDMT	-85 yf @ 300 psi
Corrosion Allowance	0 in. For non-corrosive service
Examination	
Impact Testing	Exempt per UHA-51(d)
Radiography	RT-3: Spot Long and Circ seams
PWTT	None
Hydro Test	390 psi
Service	
Fluid	Hydrogen gas
Capacity	26.6 cu. ft./199 Gal/753.3 L
Weight - Empty	730 lb
Weight - Operating	800 lbs

PV Eng
 Precision Vessel Engineering Ltd.
 120 Macaulay Drive, Suite 4
 14000 Highway 104
 Delta, BC V4L 1G2
 Tel: 604-261-8888
 Fax: 604-261-8889
 www.pveng.com

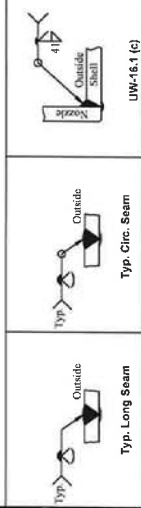


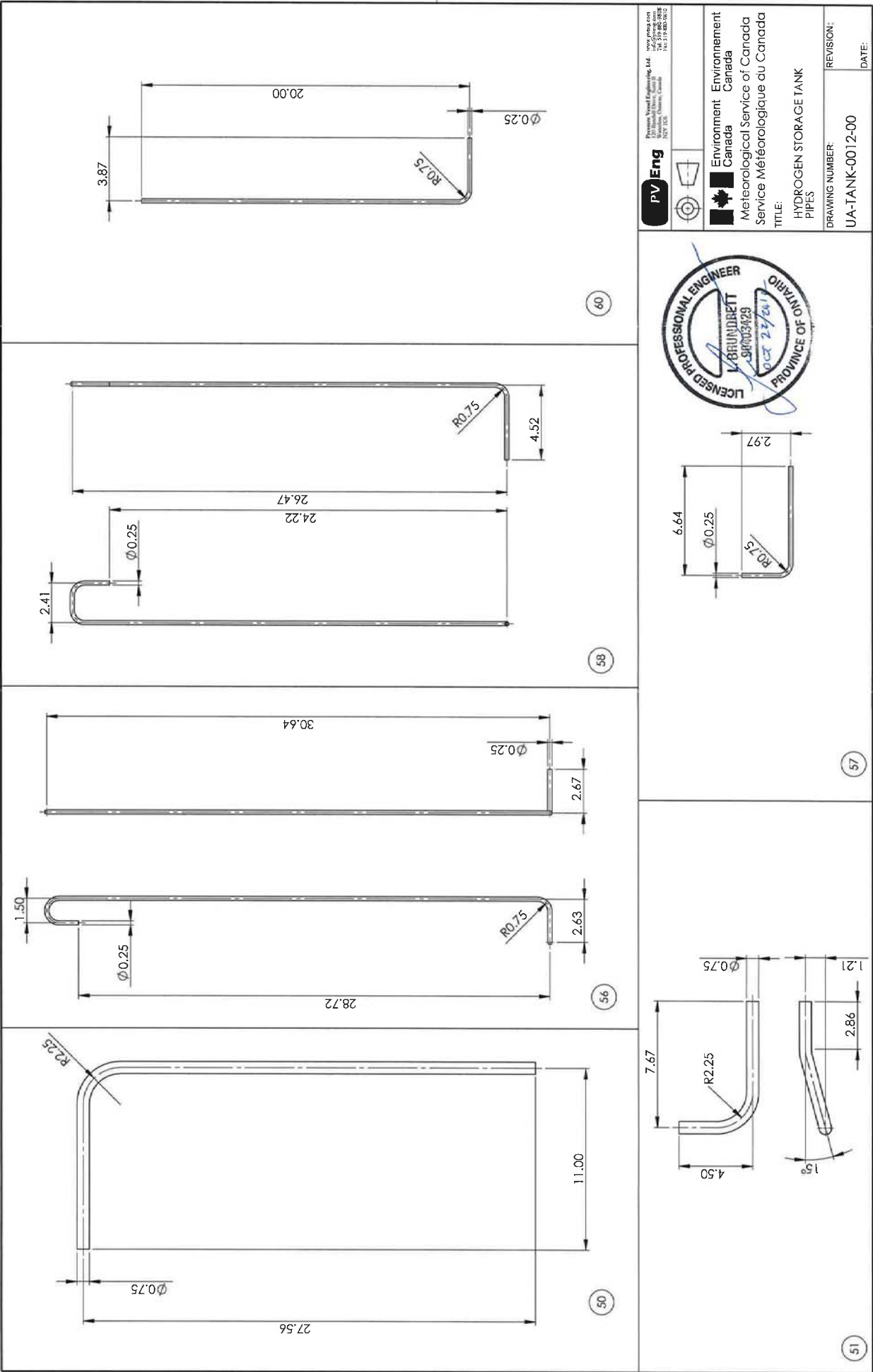
Environment
 Canada
 Environment
 Canada
 Meteorological Service of Canada
 Service Météorologique du Canada

TITLE:	HYDROGEN STORAGE TANK VESSEL
REVISION:	
DRAWING NUMBER:	UA-TANK-0011-00
DATE:	



NOZZLE SCHEDULE		WELDS			BOM ITEM #	
Mark	Size	Qty	Type	41	42	43
N1	1/2"	1	Input	UW-16.1	188	-
N2	1/2"	1	Output	UW-16.1	188	-
N3	1/2"	1	Relief	UW-16.1	188	-
N4	1/2"	1	Purge	UW-16.1	188	-
N5	1/2"	1	Drain	UW-16.1	188	-





PV Eng
 Precision Vent Engineering Ltd.
 10000 Highway 10, Unit 10
 Markham, Ontario, Canada
 L3R 9V3
 Tel: 905-947-7888
 Fax: 905-947-7812

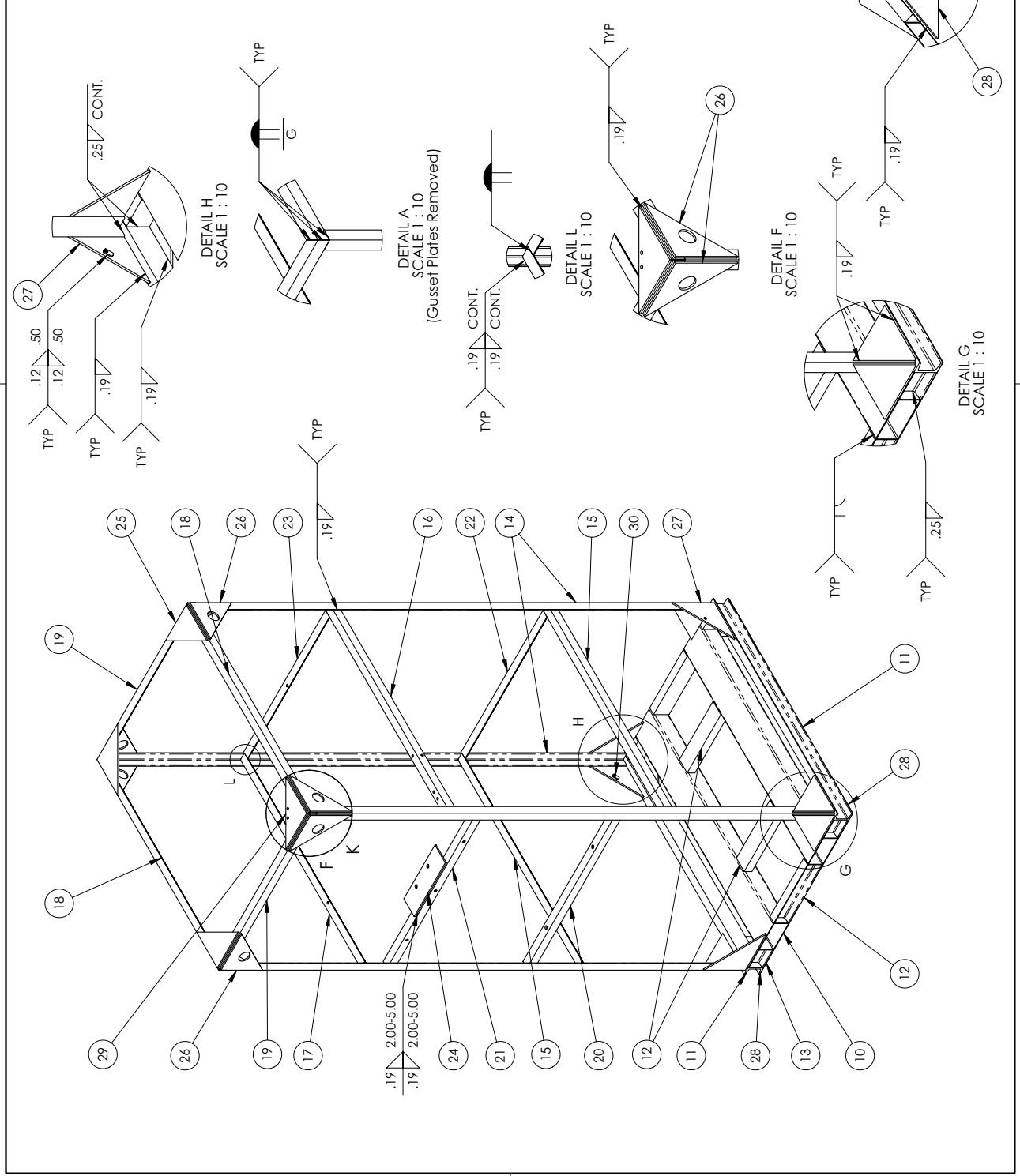


Environment Canada
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 Meteorological Service of Canada
 Service Météorologique du Canada

TITLE:
 HYDROGEN STORAGE TANK
 PIPES

REVISION:
 DRAWING NUMBER:
 UA-TANK-0012-00
 DATE:

BILL OF MATERIALS			
Item	QTY	DESCRIPTION	MATERIAL
10	2	Tube Rect - 6.00 x 3.00 x .12 x 48.00	SS 304
11	2	Channel - C3 x 5 x 48.00	SS 304
12	4	Channel - C3 x 5 x 13.00	SS 304
13	4	Channel - C3 x 5 x 4.00	SS 304
14	4	Angle - 1.50 x 1.50 x .19 x 100.00	SS 304
15	2	Angle - 1.50 x 1.50 x .19 x 46.50	SS 304
16	1	Angle - 1.50 x 1.50 x .19 x 46.50	SS 304
17	1	Angle - 1.50 x 1.50 x .19 x 46.50	SS 304
18	2	Angle - 1.50 x 1.50 x .19 x 47.00	SS 304
19	2	Angle - 1.50 x 1.50 x .19 x 35.00	SS 304
20	1	Angle - 1.50 x 1.50 x .19 x 34.50	SS 304
21	1	Angle - 1.50 x 1.50 x .19 x 34.50	SS 304
22	1	Angle - 1.50 x 1.50 x .19 x 32.00	SS 304
23	1	Angle - 1.50 x 1.50 x .19 x 32.00	SS 304
24	1	Plate Cover - .25 x 4.00 x 24.50	SS 304
25	9	Plate Gusset - .25 x 8.00 x 8.00	SS 304
26	8	Plate Lifting - .25 x 8.00 x 8.00	SS 304
27	2	Plate Grd Lug - .25 x 8.00 x 8.00	SS 304
28	4	Plate Mounting - .25 x 8.00 x 8.00	SS 304
29	1	Plate Brkt Mtg - .25 x 8.00 x 8.00	SS 304
30	2	Weld Nut, Offset - 3/5-16 UNC (94581A148)	18-8 SS



NOTES:

1. ESTIMATED WEIGHT: 320 LBS
2. ALL WELDS CONTINUOUS UNLESS OTHERWISE STATED
3. FIT-UP AND EDGE PREP AS REQUIRED
4. ALL WELDS TO BE NEAT AND CLEAN IN APPEARANCE
5. DE-BURR ALL HOLES AND REMOVE SHARP EDGES
6. EXTERNAL SURFACES OF THE FRAME TO HAVE A UNIFORM GLASS BEAD FINISH.

Primus Visual Engineering Ltd.
 www.pve-eng.com
 1000-1000-1000
 1000-1000-1000
 1000-1000-1000

Environment Canada
 Metéorological Service of Canada
 Service Météorologique du Canada

TITLE:

HYDROGEN STORAGE TANK FRAME COMP.

DRAWING NUMBER:

UA-TANK-0050-00

REVISION:

DATE:

Technical drawing of a rectangular building structure, showing various sections and details.

SECTION M-M SCALE 1 : 20

Dimensions for Section M-M:

- Overall width: 36.00
- Overall height: 48.00
- Internal width: 30.00
- Internal height: 42.00
- Wall thickness: 0.50
- Roof thickness: 0.50
- Roof slope: 10.00

DETAIL N SCALE 1 : 10

Dimensions for Detail N:

- Overall width: 0.25
- Overall height: 0.25

DETAIL R SCALE 1 : 10

Dimensions for Detail R:

- Overall width: 0.25
- Overall height: 0.25

SECTION P-P SCALE 1 : 10

Dimensions for Section P-P:

- Overall width: 48.00
- Overall height: 42.00
- Internal width: 36.00
- Internal height: 30.00
- Wall thickness: 0.50
- Roof thickness: 0.50
- Roof slope: 10.00

DETAIL P SCALE 1 : 10

Dimensions for Detail P:

- Overall width: 0.25
- Overall height: 0.25

SECTION R-R SCALE 1 : 20

Dimensions for Section R-R:

- Overall width: 105.00
- Overall height: 74.00
- Internal width: 69.00
- Internal height: 42.00
- Wall thickness: 0.50
- Roof thickness: 0.50
- Roof slope: 10.00

DETAIL M SCALE 1 : 10

Dimensions for Detail M:

- Overall width: 0.25
- Overall height: 0.25

SECTION M-M SCALE 1 : 20

Dimensions for Section M-M:

- Overall width: 36.00
- Overall height: 48.00
- Internal width: 30.00
- Internal height: 42.00
- Wall thickness: 0.50
- Roof thickness: 0.50
- Roof slope: 10.00

DETAIL N SCALE 1 : 10

Dimensions for Detail N:

- Overall width: 0.25
- Overall height: 0.25

DETAIL R SCALE 1 : 10

Dimensions for Detail R:

- Overall width: 0.25
- Overall height: 0.25

SECTION P-P SCALE 1 : 10

Dimensions for Section P-P:

- Overall width: 48.00
- Overall height: 42.00
- Internal width: 36.00
- Internal height: 30.00
- Wall thickness: 0.50
- Roof thickness: 0.50
- Roof slope: 10.00

DETAIL P SCALE 1 : 10

Dimensions for Detail P:

- Overall width: 0.25
- Overall height: 0.25

SECTION R-R SCALE 1 : 20

Dimensions for Section R-R:

- Overall width: 105.00
- Overall height: 74.00
- Internal width: 69.00
- Internal height: 42.00
- Wall thickness: 0.50
- Roof thickness: 0.50
- Roof slope: 10.00


DETAIL M SCALE 1 : 10

Dimensions for Detail M:

- Overall width: 0.25
- Overall height: 0.25

Prestress Vessel Engineering, Ltd.
220 Randall Drive, Suite B
Auriferio, Ontario, Canada
L2V 1C6
www.pveinc.com
info@pveinc.com
Tel: 519-880-9808
Fax: 519-880-9810

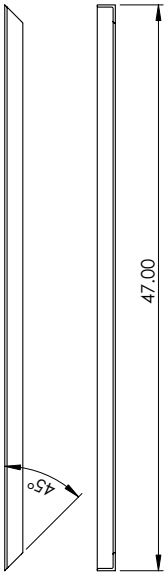
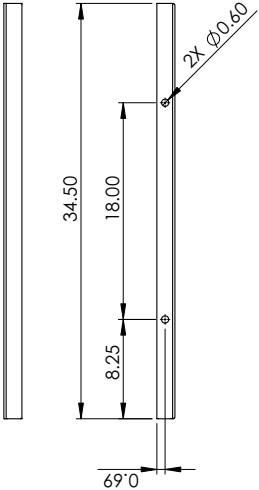
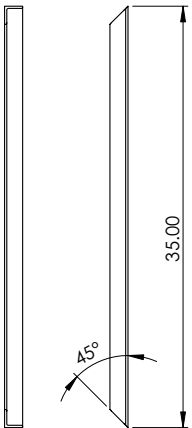
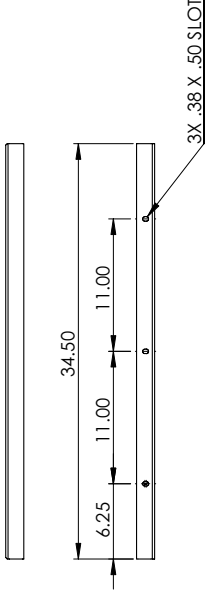
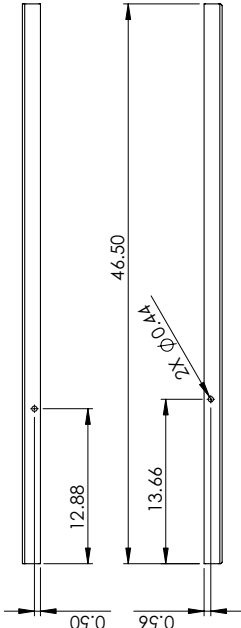
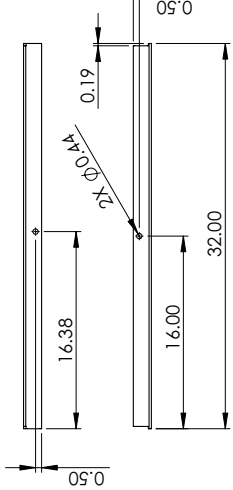
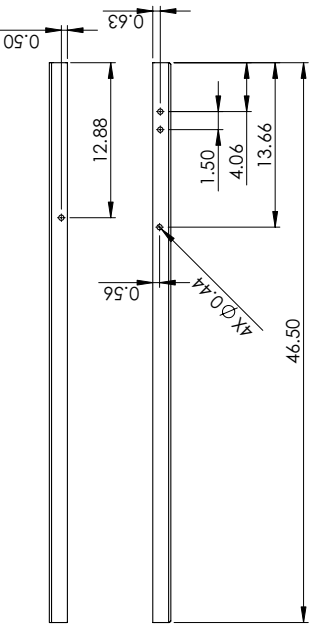
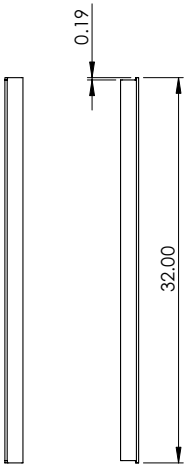




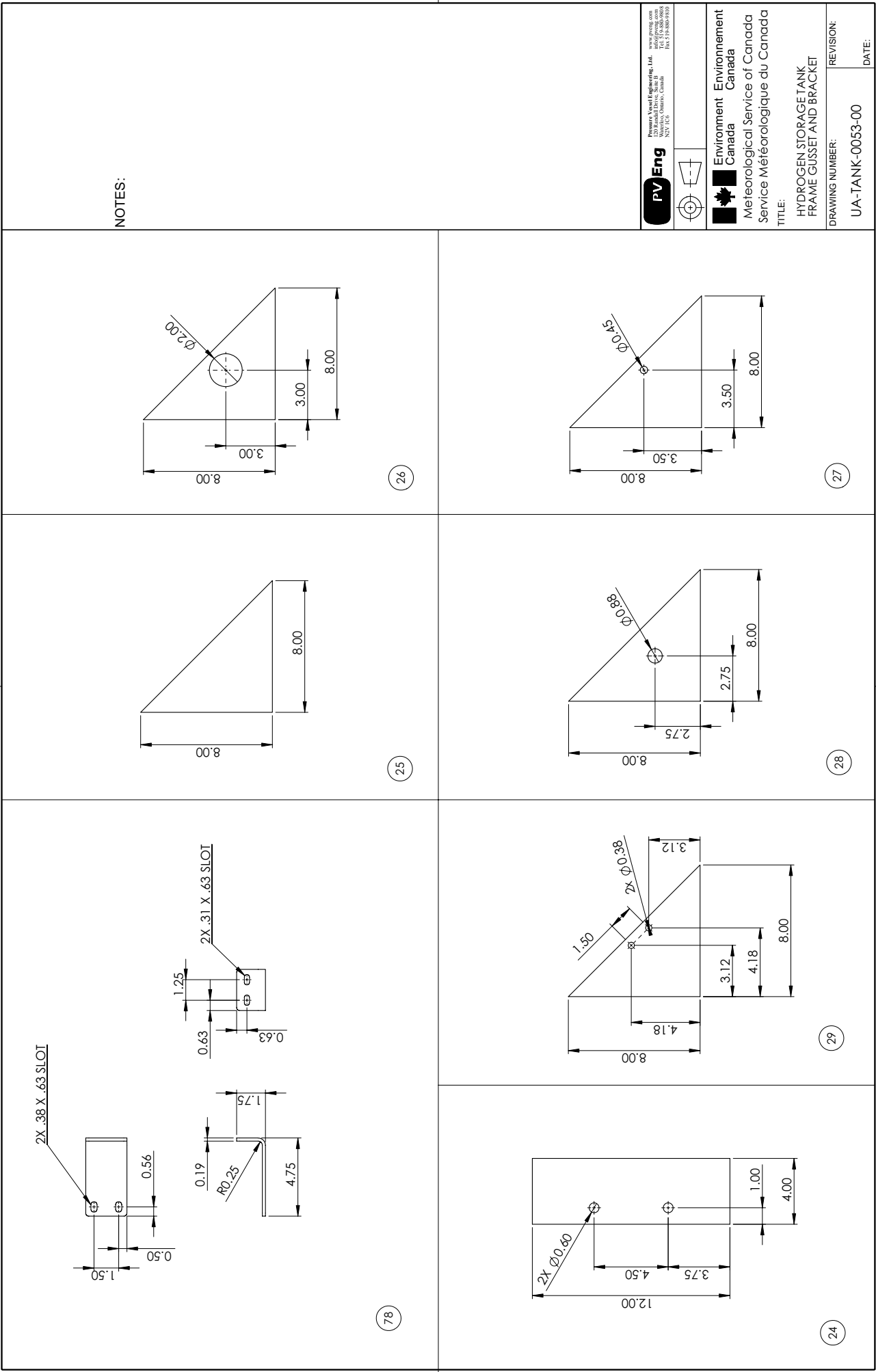

 Environment Canada
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 Meteorological Service of Canada
 Service Météorologique du Canada

HYDROGEN STORAGE TANK
FRAME

JA-TANK-0051-00

DATE:

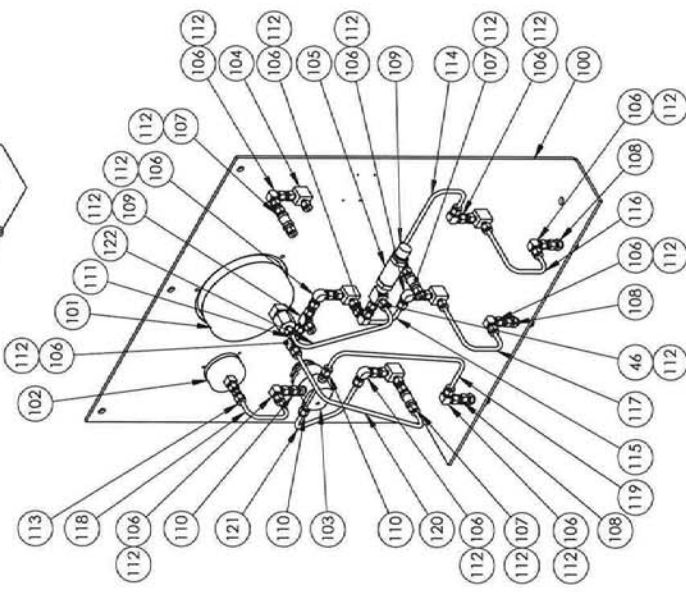
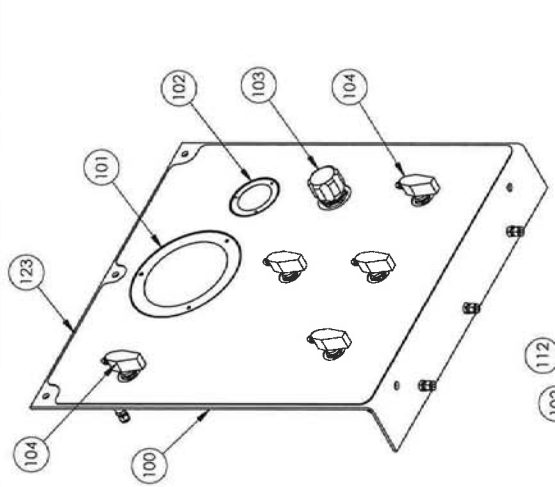
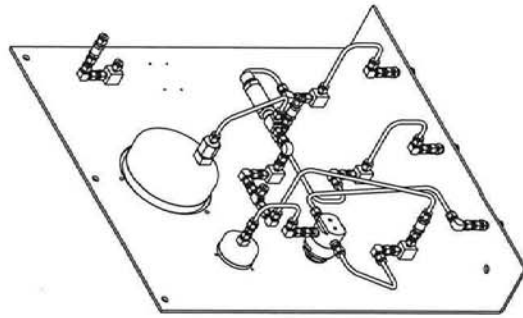
 <p>(18)</p>	 <p>(20)</p>	<p>NOTES:</p>
 <p>(19)</p>	 <p>(21)</p>	
 <p>(17)</p>	 <p>(23)</p>	
 <p>(16)</p>	 <p>(22)</p>	<p>  PV Eng <small>Primus Visual Engineering, Ltd. www.pve-eng.com 1100 Highway 104 Windsor, Ontario, Canada N9A 1G5</small> </p> <p>  Environment Canada Meteorological Service of Canada Service Météorologique du Canada </p> <p> TITLE: HYDROGEN STORAGE TANK FRAME CROSS MEMBERS </p> <p> DRAWING NUMBER: UA-TANK-0052-00 </p> <p> REVISION: DATE: </p>



BILL OF MATERIALS					DESCRIPTION		Notes	
Item	QTY	PartNo	MATERIAL	CRN				
100	1	UA-TANK-0101	SS 304		Panel Plate		See dwg UA-TANK-0101-00	
101	1	Swagelok PG1-160B-PG300-BA1PX-BGJ	SS 316	OF02026-2C	6" DIAL PRESSURE GAUGE UP TO 300PSI WITH DIAL SCALE		FRONT FLANGE MOUNTING	
102	1	Swagelok PG1-43B-PG300-CAQX-BGJ	SS 316	OH02026-2C	2.5" DIAL PRESSURE GAUGE TO 300PSI DUAL SCALE		FRONT FLANGE MOUNTING	
103	1	Swagelok KPRJG1C417A6000BK	SS 316	OC6054-SC	SS REGULATOR WITH GAUGE OUTLET			
104	5	Swagelok SS-43GS-A-LL	SS 316	OC6054-SC	BALL VALVE WITH LATCH LOCK HANDLE		VERTICAL ORIENTATION OF HANDLE IS OPEN	
105	1	WIKI E-10-A-PBI-NB-ZG2X67-ZZ			4-20mA, 2 WIRE 1/4" NPT 300PSI SUNGUNG EXPOSITION PROOF CSA CERTIFIED CLASS II, II		PTFE TAPE TO BE USED ON ALL NPT FITTINGS	
106	11	Swagelok SS-400-9	SS 316	OA12577-SC	Blowdown, 90° - 25 Tube			
107	3	Swagelok SS-4C-EP-1	SS 316	OC12577-SC	0.25" TUBE CHECK VALVE WITH 1PSI CRACKING PREASURE		FLOW DIRECTION IS CRITICAL	
108	3	Swagelok SS-400-61	SS 316	OA12577-SC	Bulkhead Union - 25 Tube			
109	2	Swagelok SS-400-3	SS 316	OA12577-SC	Tee, Union - 25 Tube			
110	3	Swagelok SS-400-1-4	SS 316	OA12577-SC	Str Male Conn - 25 Tube to 1/4 NPT			
111	1	Swagelok SS-400-2-8	SS 316	OA12577-SC	Str Fem Conn - 25 Tube to 1/2 NPT			
112	16	Swagelok SS-401-PC	SS 316	OA12577-SC	Port Connector - 25 Tube			
113	1	Swagelok SS-400-6	SS 316	OA12577-SC	Union - 25 Tube			
46	1	Swagelok SS-400-3-41FT	SS 316	OA12577-SC	Tee, Run, Female - 25 Tube, 1/4 NPT			
114	1		SA-213		Tube - 250 OD 20 Ga (035) x -9.36			
115	1		SA-213		TUBE 250 OD 20 Ga (035) X -9.36			
116	1		TP316/316L SMLS		TUBE 250 OD 20 Ga (035) X -8.50			
117	1		TP316/316L SMLS		TUBE 250 OD 20 Ga (035) X -8.50			
118	1		TP316/316L SMLS		TUBE 250 OD 20 Ga (035) X -6.65			
119	1		TP316/316L SMLS		Tube - 250 OD 20 Ga (035) x -14.30			
120	1		TP316/316L SMLS		Tube - 250 OD 20 Ga (035) x -15.62			
121	1		TP316/316L SMLS		Tube - 250 OD 20 Ga (035) x -9.33			
122	1		TP316/316L SMLS		Tube - 250 OD 20 Ga (035) x -9.97			
123	1	UA-TANK-0199			Label - Hydro Tank Panel		See dwg UA-TANK-0199-00	

Notes:

- The manufacturer shall have a valid certificate of authorization to assemble and register category H fittings in accordance with CSA B51
- PTFE tape to be used on all NPT connections
- Use Loctite Nickel Anti-seize on all bolted joints
- All tubing shall be deburred
- Assembly by Swagelok trained technician only
- Each assembly manufactured shall be pneumatically pressure tested to 300 psi with helium in accordance with ASME B31.3. Each joint shall be verified leak free by applying Swagelok Snoop, no bubbles permitted.
- Use only seamless tubing
- Only use stainless steel fasteners and nylock nuts for the pressure gauges
- All components are Swagelok supply unless otherwise noted
- Logo plate to be fixed with stainless steel rivets after assembly, refer to dwg UA-TANK-0198.

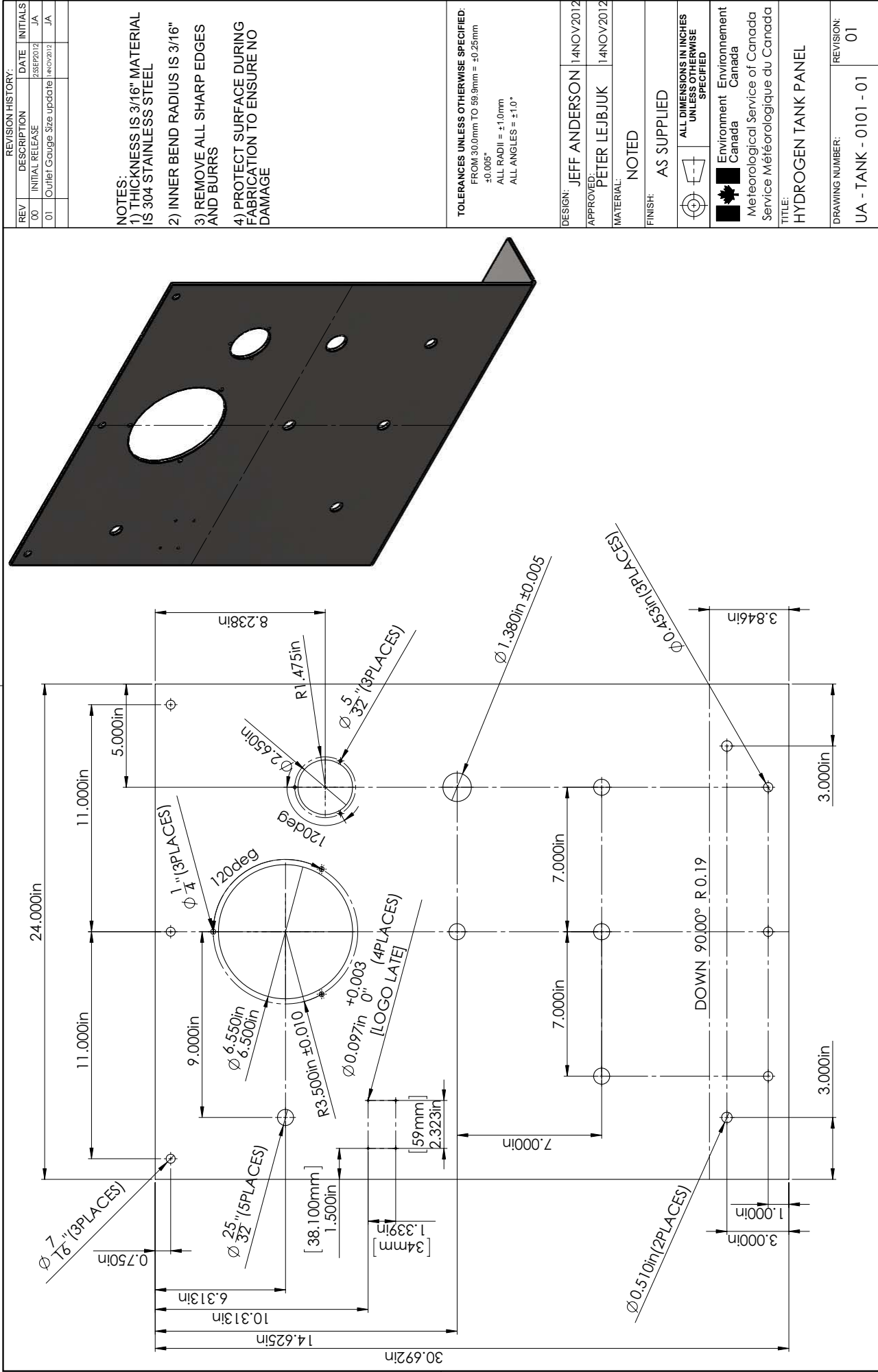


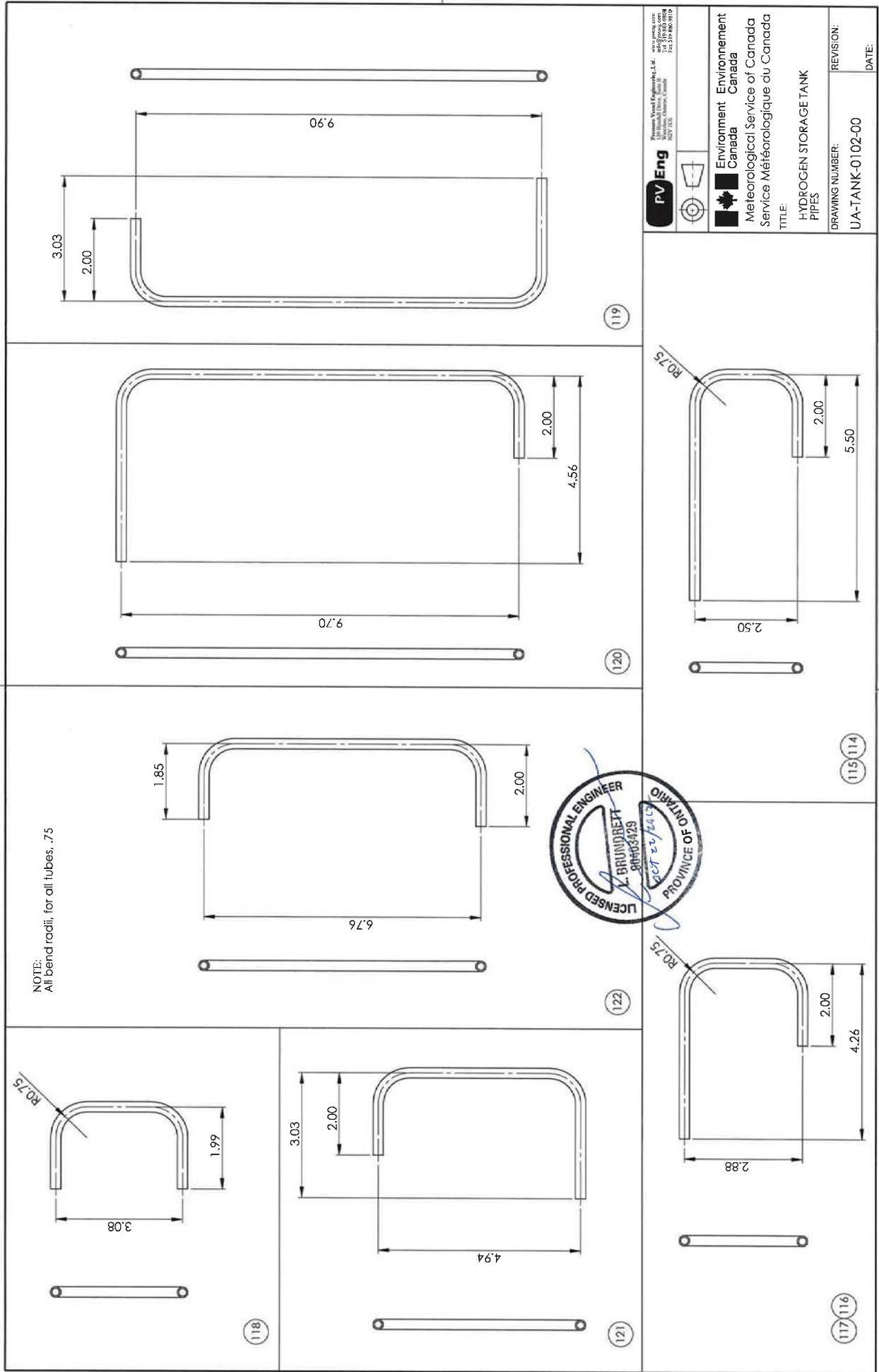
Environment
 Canada
 Meteorological Service of Canada
 Service Météorologique du Canada

TITLE:
 HYDROGEN STORAGE TANK
 PANEL ASSEMBLY
 DRAWING NUMBER:
 UA-TANK-0100-00

REVISION:
 DATE:







REVISION HISTORY:			
REV	DESCRIPTION	DATE	INITIALS
00	INITIAL RELEASE	03OCT2012	JA

NOTES:

- 1) REMOVE ALL SHARP EDGES AND BURRS

TOLERANCES UNLESS OTHERWISE SPECIFIED:
 $\pm 0.01"$
 ALL RADII = ± 0.025
 ALL ANGLES = $\pm 1.0^\circ$

DESIGN: JEFF ANDERSON 03OCT2012

APPROVED: PETER LEJBUEK 04OCT2012

MATERIAL: ALUMINIUM 6061

FINISH: AS SUPPLIED

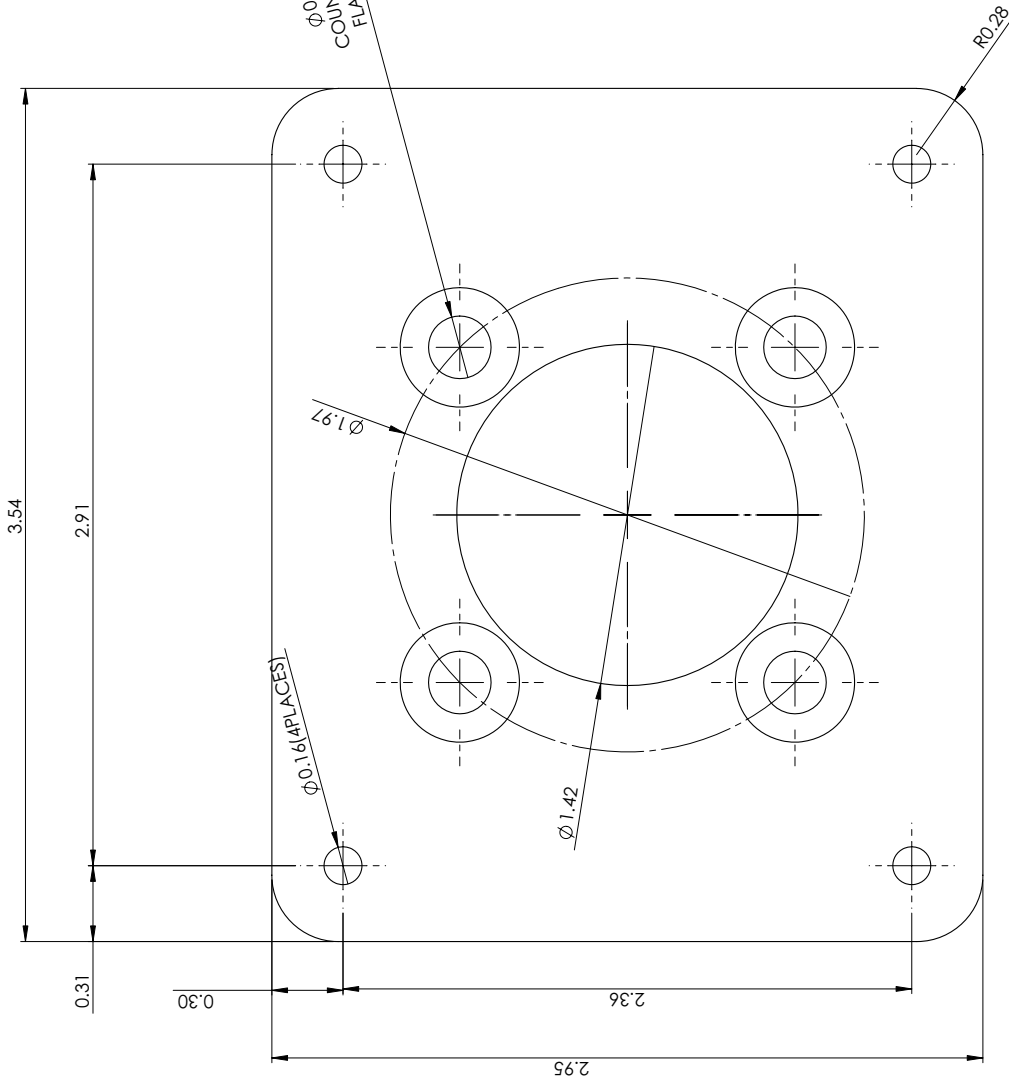
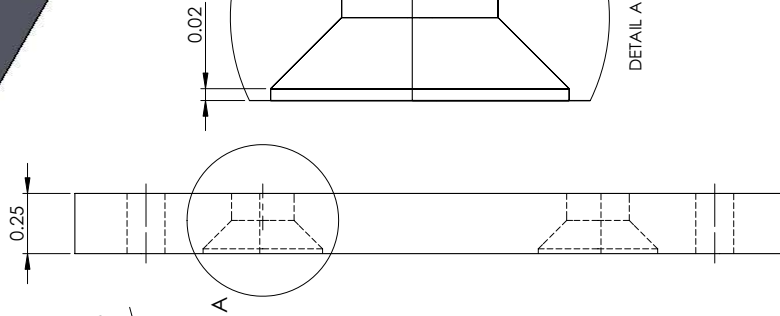
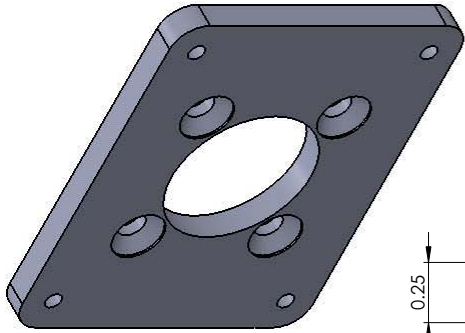
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED

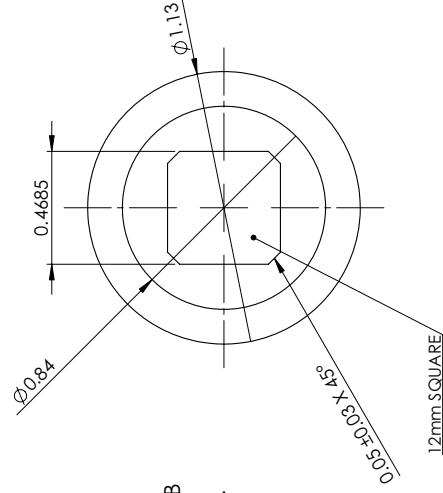
Environment Canada
 Environment Canada

Meteorological Service of Canada
 Service Météorologique du Canada

TITLE: HYDROGEN TANK, ACTUATOR PLATE

DRAWING NUMBER: UA - TANK - 0200 - 00
 REVISION: 00





DRAWING NUMBER: UA-TANK-0201-00	REVISION:
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