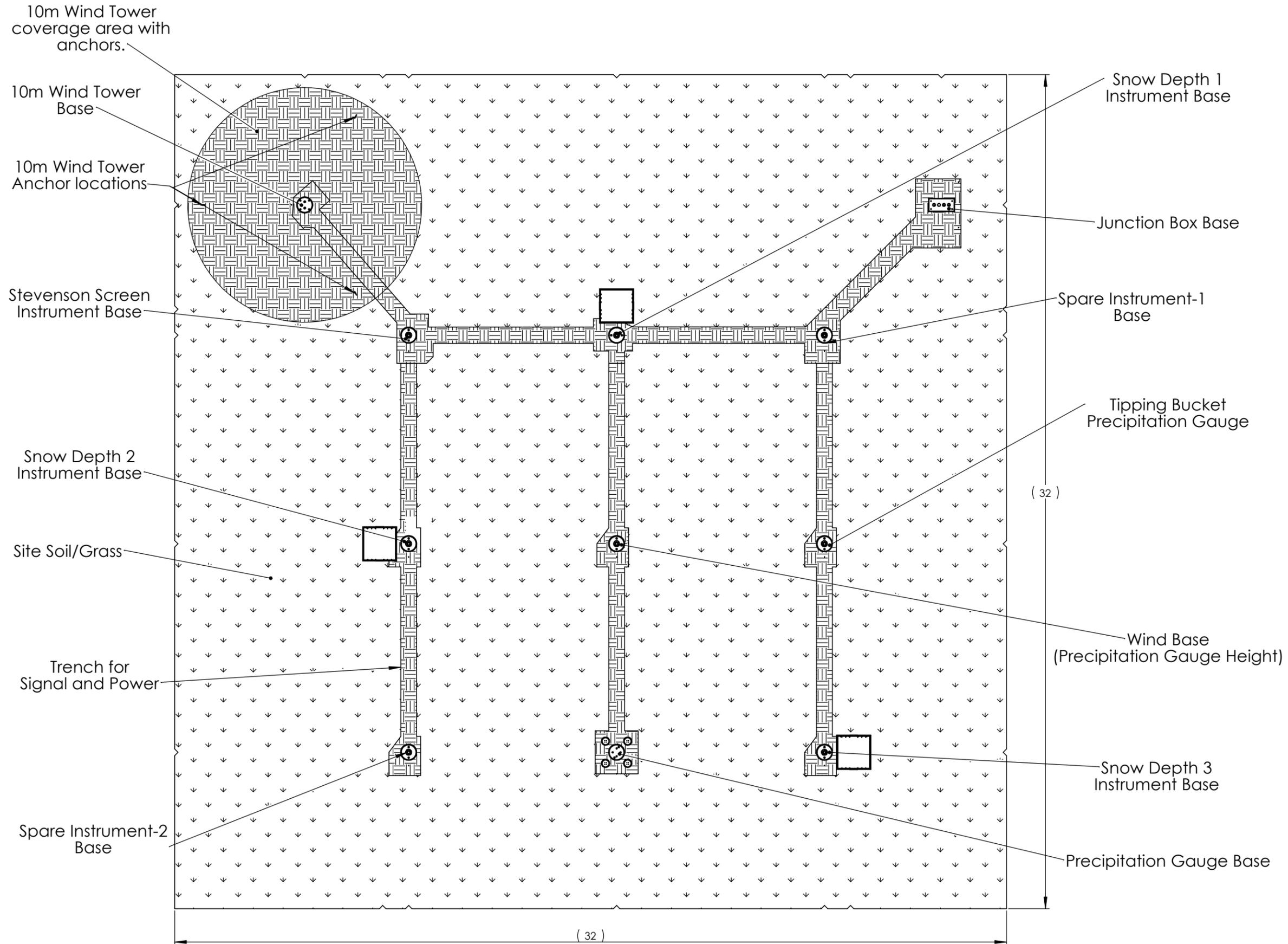


Automatic Weather Stations Square Layout (32m x 32m)



REVISION HISTORY

REV.	DESCRIPTION	DATE	INIT.
01	Initial Release	17/APR/15	M.S

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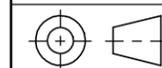
DESIGN:	J. HOOVER / M. SINGH	11-JUN-2015
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APPROVED:	SORIN PINZARIU / P. LEJBJUK	11-JUN-2015
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MATERIAL:	N/A
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FINISH:	N/A
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SPECIFICATION:	
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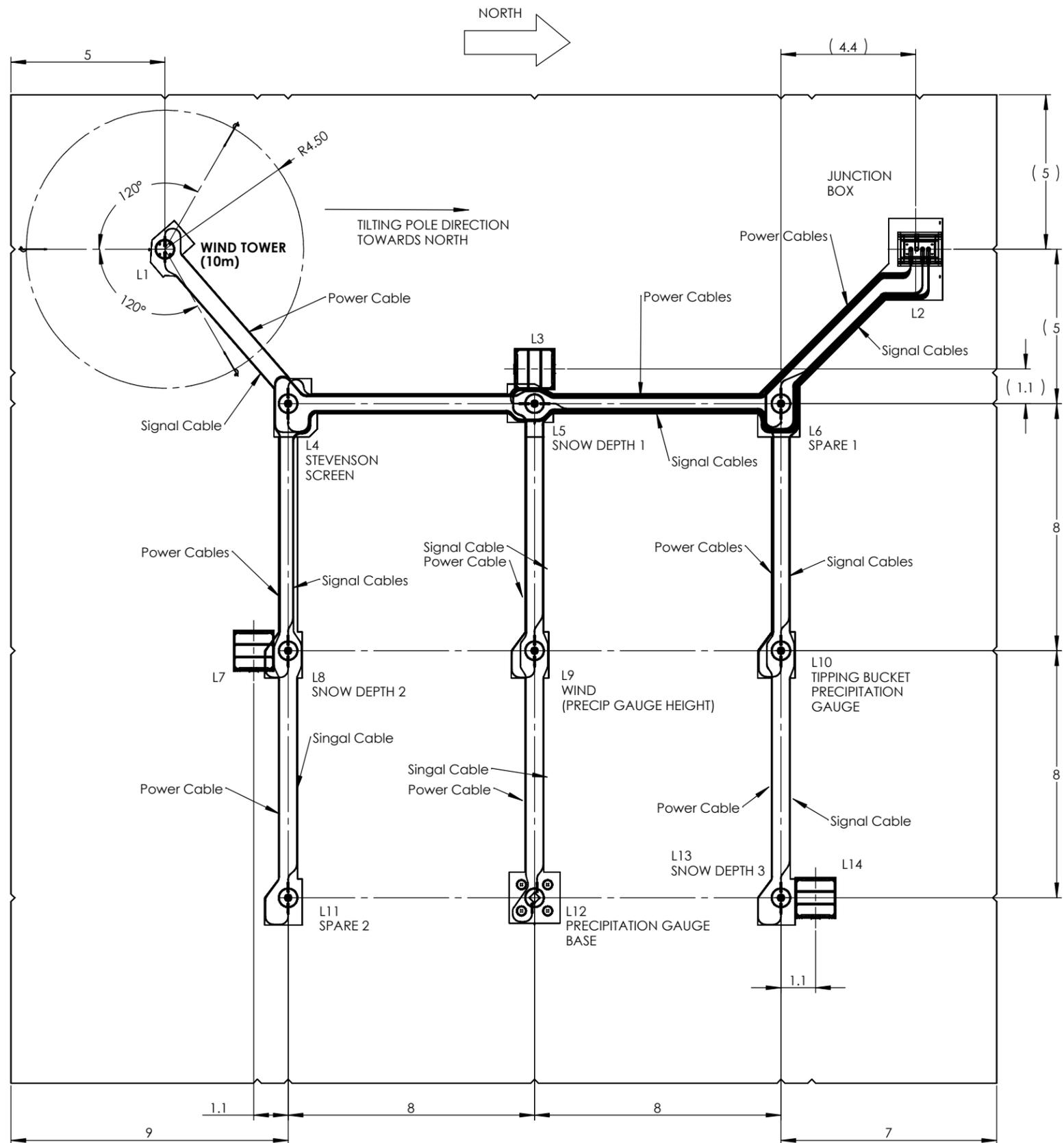


ALL DIMENSIONS IN METERS UNLESS OTHERWISE INDICATED

 Environment Canada / Environnement Canada
 Meteorological Service of Canada / Service Météorologique du Canada

TITLE:
Automatic Weather Station Layout-Square

DRAWING NUMBER:	GND-AWS-LA1	REVISION:	01
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AWS Instrument Base Drawing Details

LOCATION	INSTRUMENT	CONCRETE BASE	DRAWING
L1	WIND TOWER (10 m)	WIND BASE	GND-AWS-B1
L2	JUNCTION BOX	JUNCTION BOX BASE	GND-AWS-D1
L3	N/A	SNOW DEPTH TARGET WITH HDPE FRAME	GND-SDT-B00
L4	STEVENSON SCREEN	INSTRUMENT BASE	GND-AWS-A1
L5	SNOW DEPTH 1	INSTRUMENT BASE	GND-AWS-A1
L6	SPARE 1	INSTRUMENT BASE	GND-AWS-A1
L7	N/A	SNOW DEPTH TARGET WITH HDPE FRAME	GND-SDT-B00
L8	SNOW DEPTH 2	INSTRUMENT BASE	GND-AWS-A1
L9	WIND (PRECIP GAUGE HEIGHT)	INSTRUMENT BASE	GND-AWS-A1
L10	TIPPING BUCKET PRECIPITATION GAUGE	INSTRUMENT BASE	GND-AWS-A1
L11	SPARE 2	INSTRUMENT BASE	GND-AWS-A1
L12	PRECIPITATION GAUGE	PRECIPITATION BASE	GND-AWS-C1
L13	SNOW DEPTH 3	INSTRUMENT BASE	GND-AWS-A1
L14	N/A	SNOW DEPTH TARGET WITH HDPE FRAME	GND-SDT-B00

Description	Material	Qty.
ELECTRICAL POWER CABLE, TECK MULTICONDUCTURE, 2 Conductor, 12AWG 600V Cable (P/N 7TE-1202 - ANIXTER)	N/A	355 m
ELECTRICAL SIGNAL CABLE, MINIMUM 4 TWISTED SHIELDED PAIRS, 18 AWG 300V ARMORED, INDIVIDUAL AND OVERALL SHIELDED CABLE (P/N: 323-539-1804 - ANIXTER)	N/A	355 m

NOTE: The Cable Lengths are based on the drawing layout. The contractor must calculate cable length for variations in layout.

NOTES:

- Minimum 3" additional arrix 6mm (nominal) screened sand added along trench bottom.
- Electrical cable installation must meet all regional standards and canadian electrical code.
- 10" minimum electrical cable bend radius.
- 18" minimum electrical cable depth below grade.
- 8" minimum electrical power and signal cable separation for paralld cable run.
- 4" minimum electrical power and signal cable separation for perpendicular cable crossing. Use arrix 6mm (nominal) screened sand.
- Electrical power and signal cable must extend 3m above conduit at all bases.
- Grounding rod assemblies to be installed at all bases.
- 8" minimum ground rod depth below grade at all bases.
- 8" minimum clearace between grounding rod and bases.
- Grounding cables shall extend minimum 36" above instrument base.
- Minimum 3" additional arrix 6mm (nominal) screened sand added on the top of the cables.
- See individual drawings for details of heights above ground.
- Apply flagging and warning tapes to mark electrical signal and power cables within the trench.
- Screened sand shall be compacted to meet regional standars prior to backfilling the trench.
- Soil around footing shall be compacted as per regional standards.
- Concrete must meet regional standard and CSA A23.1, CSA A23.3. Concrete compressive strength shall be > 31 MPa at 28 days. Do not use rapid setting mixtures.
- Concrete to have air entrapment and air content of 4-9% as per ASTM C457, freeze that resitance durability >90% as per ASTM C666.
- Check frost line requirement and provide minimum depth fro frost protection. reinforcing bars need not be modified.
- All excavations shall be kept dry, by pumping if necessary, before pouring concrete and shall be kept dry until backfilling is in place.
- All visible portions of the concrete form and scrap shall be removed from the site.
- Trench width shall be as per the layout drawing GND-AWS-LA3 .
- Instrument base holes centered across trench width.
- Sonotube to be used only in the top section of bases. No sonotubes to be installed at the bottom of bases. See individual bases for details.
- Surface automatic station layout alignment from true north shall be included in site installation documentation.

REVISION HISTORY

REV.	DESCRIPTION	DATE	INITIAL
01	Initial Release	17/APR/15	MS

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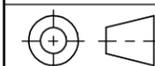
DESIGN: **J. HOOVER / M. SINGH** 11-JUN-2015

APPROVED: **SORIN PINZARIU / P. LEJBKUK** 11-JUN-2015

MATERIAL: N/A

FINISH: N/A

SPECIFICATION:



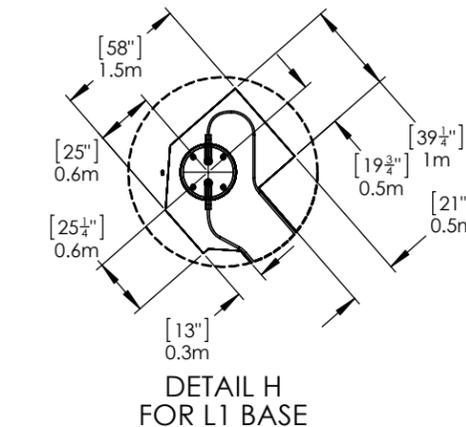
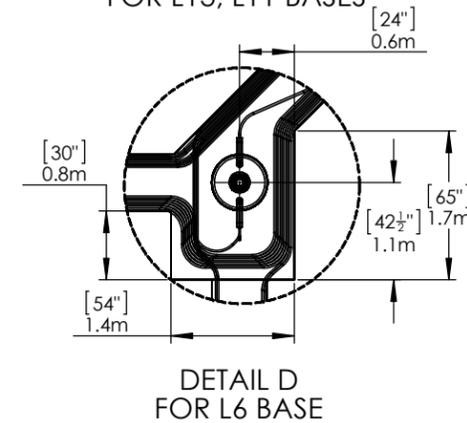
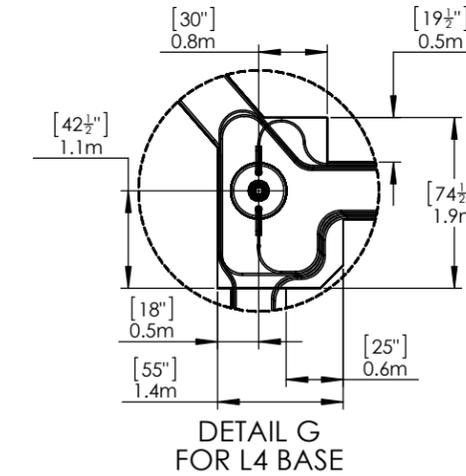
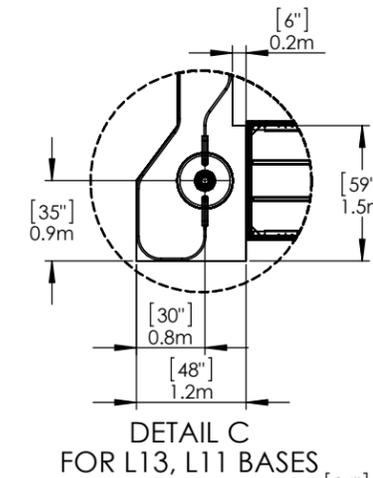
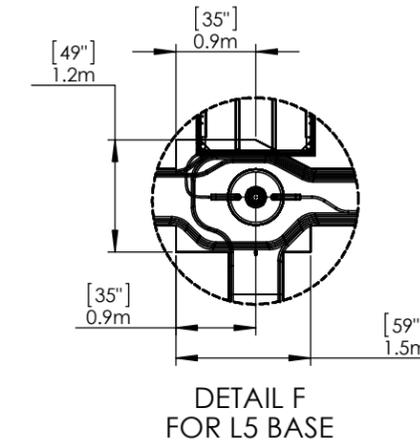
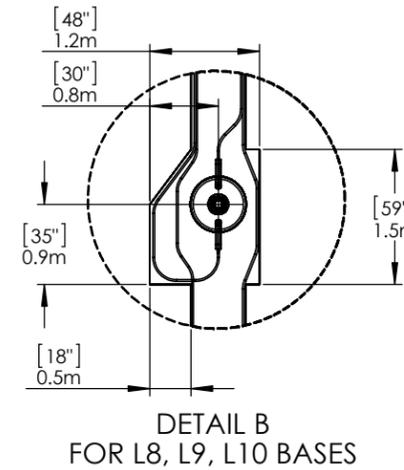
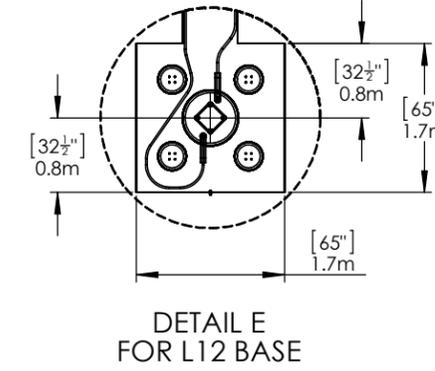
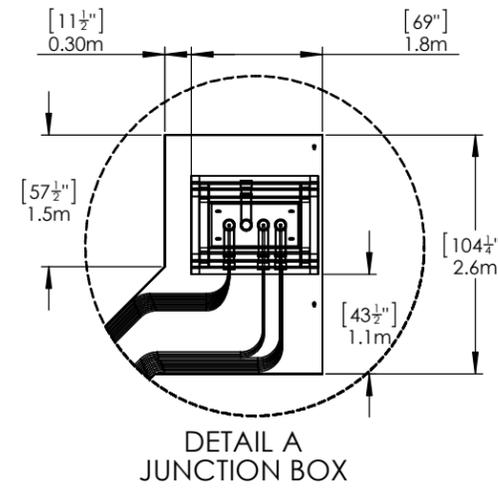
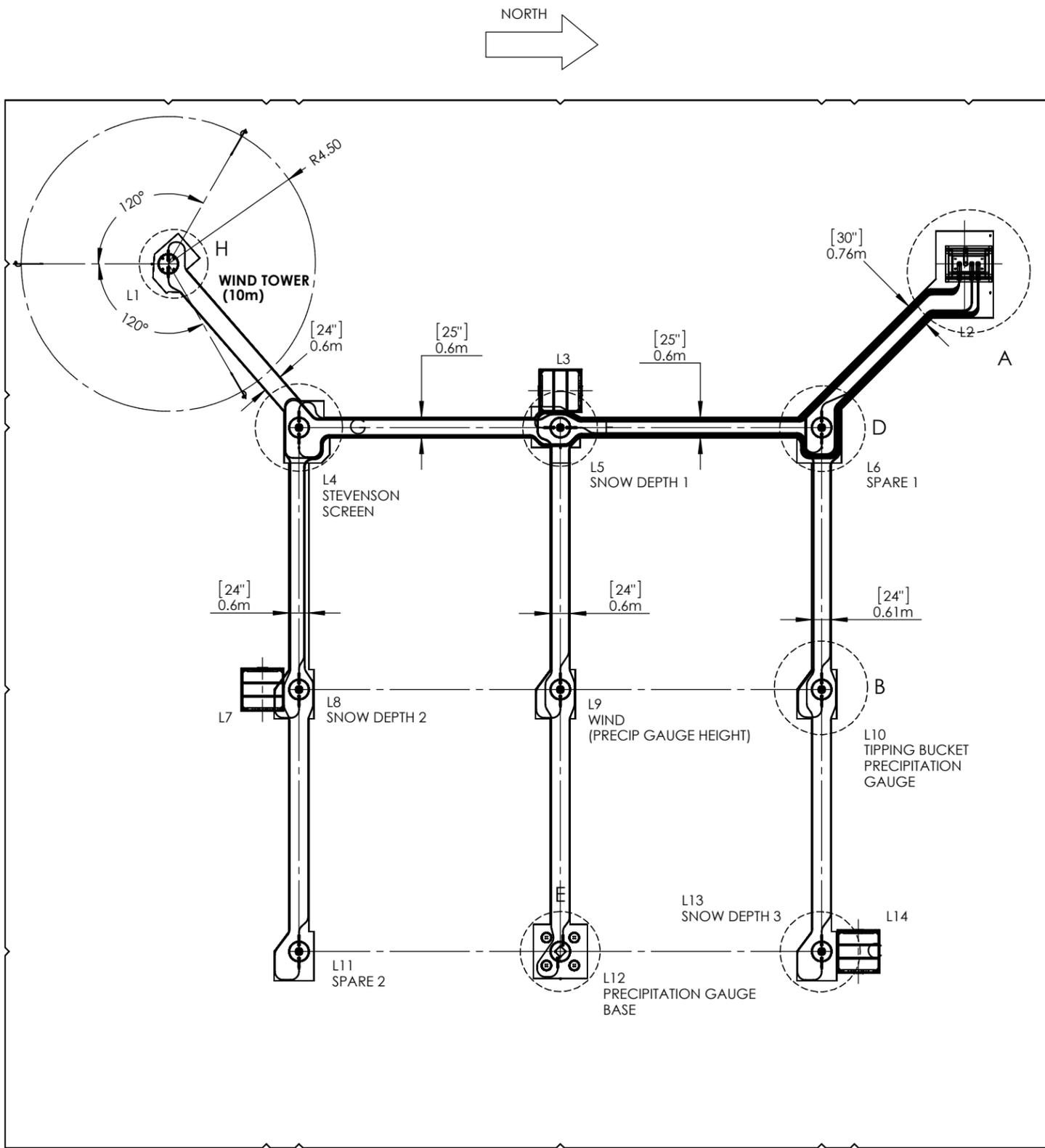
ALL DIMENSIONS IN METERS UNLESS OTHERWISE INDICATED



Meteorological Service of Canada
Service Météorologique du Canada

TITLE:
AWS Instrument Base Locations

DRAWING NUMBER: **GND-AWS-LA2** REVISION: **01**



REVISION HISTORY

REV.	DESCRIPTION	DATE	INITIAL
01	INITIAL RELEASE	10/JUN/15	M.S

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ANGULAR: ±2.0°

DESIGN: **J. HOOVER / M. SINGH** 11-JUN-2015

APPROVED: **SORIN PINZARIU / P. LEJBJUK** 11-JUN-2015

MATERIAL: N/A

FINISH: N/A

SPECIFICATION:

ALL DIMENSIONS IN METERS UNLESS OTHERWISE INDICATED

Environment Canada / Environnement Canada
Meteorological Service of Canada / Service Météorologique du Canada

TITLE: **AWS Instrument Base and Trench Details**

DRAWING NUMBER: **GND-AWS-LA3** REVISION: **01**

ITEM NO.	DESCRIPTION	DRAWING NUMBER	QTY.
1	LOWER END PLYWOOD SHEET	GND-AWS-D2	2
2	2X4 LUMBER, 60" LENGTH	-	4
3	3-HOLE PLYWOOD SHEET	GND-AWS-D2	1
4	1-HOLE PLYWOOD SHEET	GND-AWS-D2	1
5	2X4 LUMBER, 55" LENGTH	-	6
6	2X4 LUMBER, 43" LENGTH	-	2
7	2X4 LUMBER, 37.5" LENGTH	-	2
8	2X4 LUMBER, 32" LENGTH	-	2
9	CONCRETE	-	1.5 cu.m
10	EYE BOLT, 5/8"-11, 6" MIN THREAD, LENGTH 16" TO 24"	-	4
11	UPPER CONDUIT, 4" DIAMETER, 27" LENGTH	-	4
12	CONDUIT ELBOW, 4" DIAMETER	-	4
13	JUNCTION BOX MOUNTING TEMPELATE	GND-AWS-D2	1
14	UPPER SIDE PLYWOOD SHEET	GND-AWS-D2	2
15	UPPER END PLYWOOD SHEET	GND-AWS-D2	2

REVISION HISTORY:			
REV	DESCRIPTION	DATE	INITIALS
01	Initial release	8/MAY/15	M.S

- NOTES
- ENSURE CONCRETE SURFACE IS SLIGHTLY DOMED SO NO WATER IS ACCUMULATED ON THE BASE.
 - EYE BOLT THREADS MUST BE CLEAN.
 - ALL VISIBLE PORTIONS OF THE CONCRETE FORM AND SCRAP MUST BE REMOVED FROM THE SITE.
 - JUNCTION BOX ORIENTATION DETERMINED BY SITE LAYOUT DRAWING GND-AWS-LA2.
 - CONCRETE MUST MEET REGIONAL STANDARDS AND CSA A23.1, CSA A23.3. CONCRETE COMPRESSIVE STRENGTH SHALL BE MIN 31MPa AT 28 DAYS. DONOT USE RAPID SETTING MIXTURES.
 - CONCRETE TO HAVE AIR ENTRAPMENT AND AIR CONTENT OF 4-9% AS PER ASTM C 457, FREEZE THAW RESISTANCE DURABILITY >90% AS PER ASTM C666.
 - SOIL AROUND FOOTING MUST BE COMPACTED AS PER REGIONAL STANDARDS.

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DESIGN: **J. HOOVER / M. SINGH** 11-JUN-2015

APPROVED: **SORIN PINZARIU / P. LEJBJUK** 11-JUN-2015

MATERIAL: N/A

FINISH: N/A

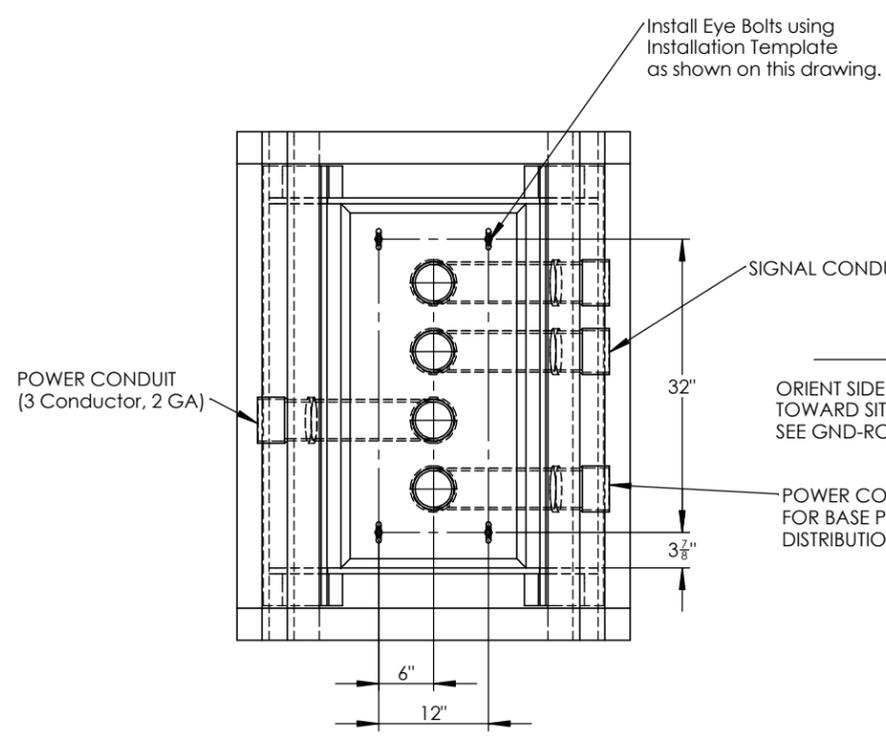
SPECIFICATION:

 **ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED**

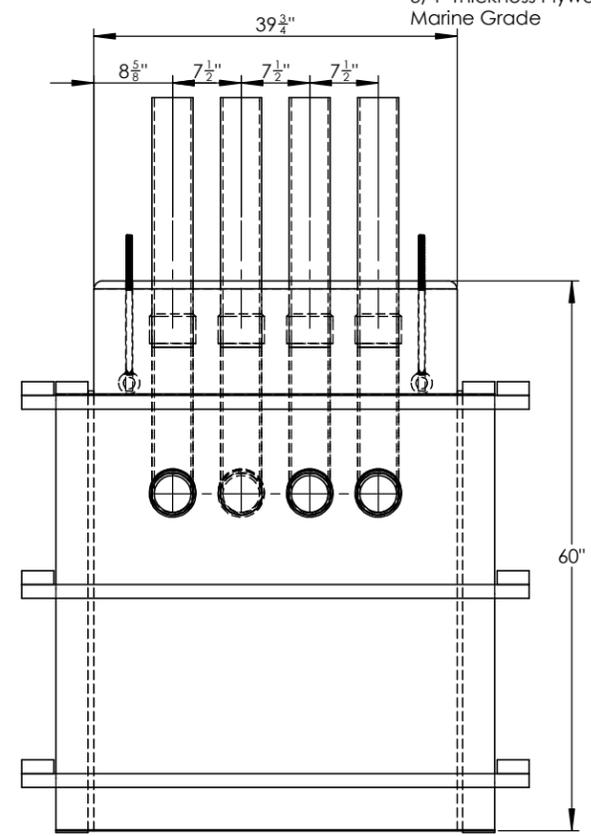
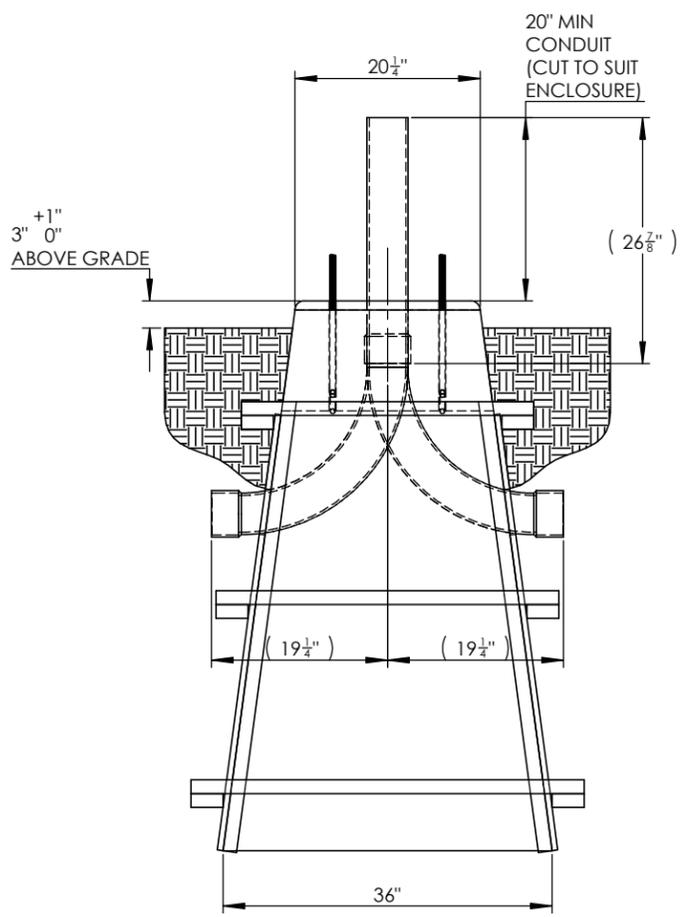
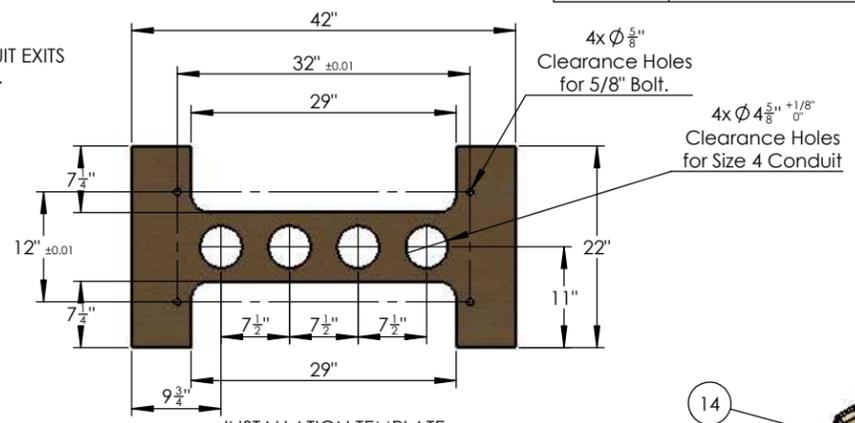
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TITLE: **STANDARD JUNCTION BOX BASE**

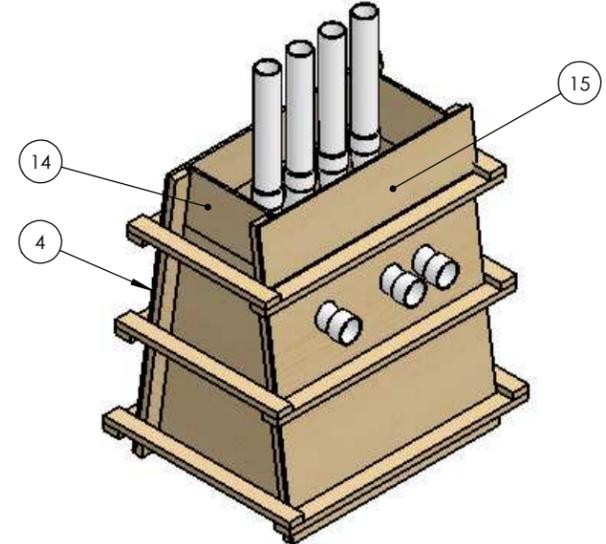
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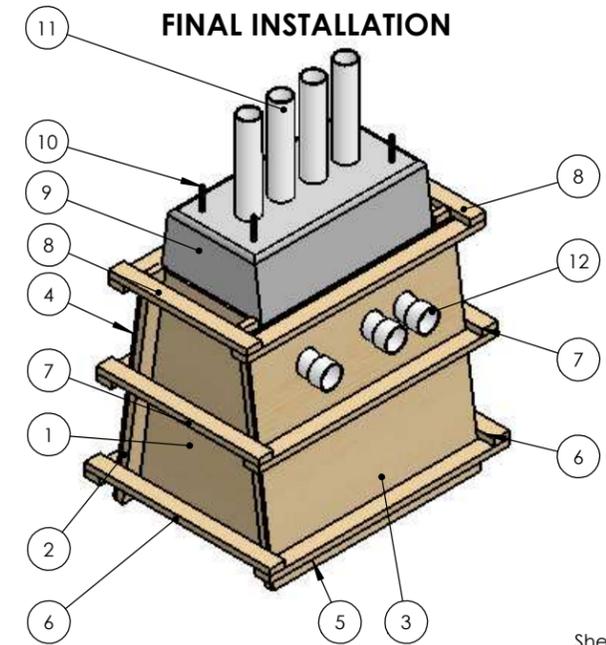
ORIENT SIDE WITH 3 CONDUIT EXITS TOWARD SITE INSTRUMENTS. SEE GND-RCS-LA3



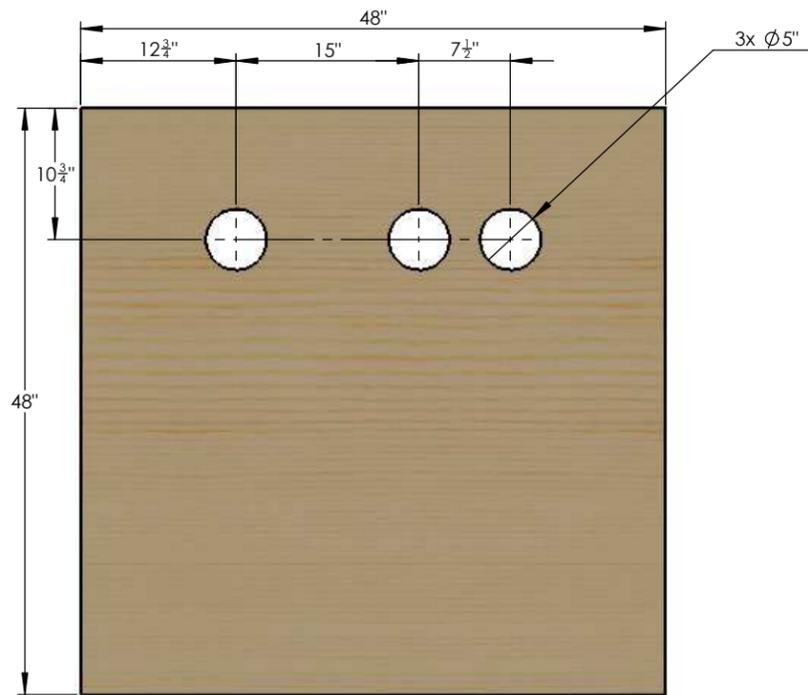
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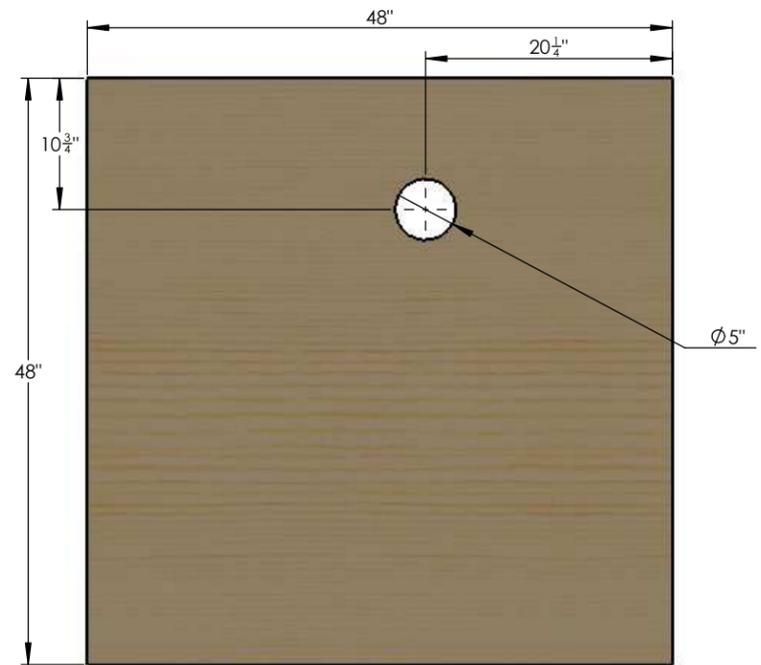
FINAL INSTALLATION



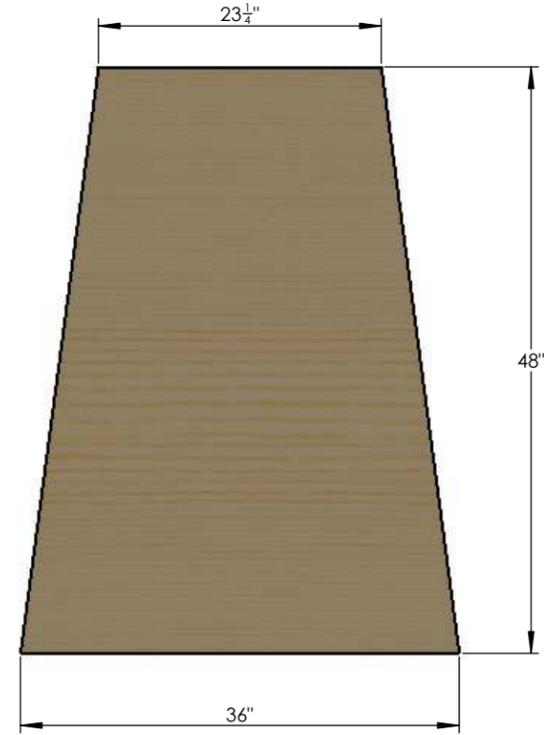
REVISION HISTORY:			
REV	DESCRIPTION	DATE	INITIALS
01	Initial Release	08/MAY/15	M.S.



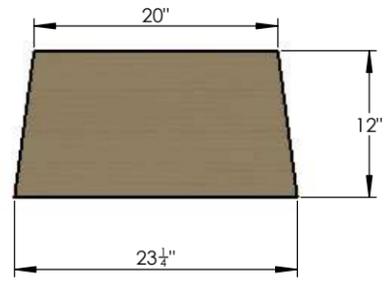
3 HOLE PLYWOOD SHEET
Material: 5/8" Plywood



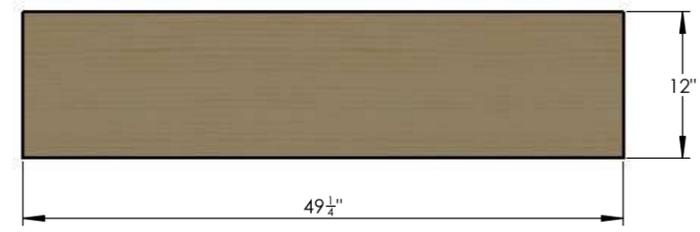
1 HOLE PLYWOOD SHEET
Material: 5/8" Plywood



LOWER END SIDE SHEET
Material: 5/8" Plywood



UPPER END SHEET
Material: 5/8" Plywood



UPPER SIDE PLYWOOD SHEET
Material: 5/8" Plywood

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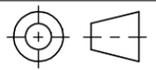
DESIGN: **J. HOOVER / M. SINGH** 11-JUN-2015

APPROVED: **SORIN PINZARIU / P. LEJBKUK** 11-JUN-2015

MATERIAL: **SEE INDIVIDUAL PARTS**

FINISH: **N/A**

SPECIFICATION:

 **ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED**

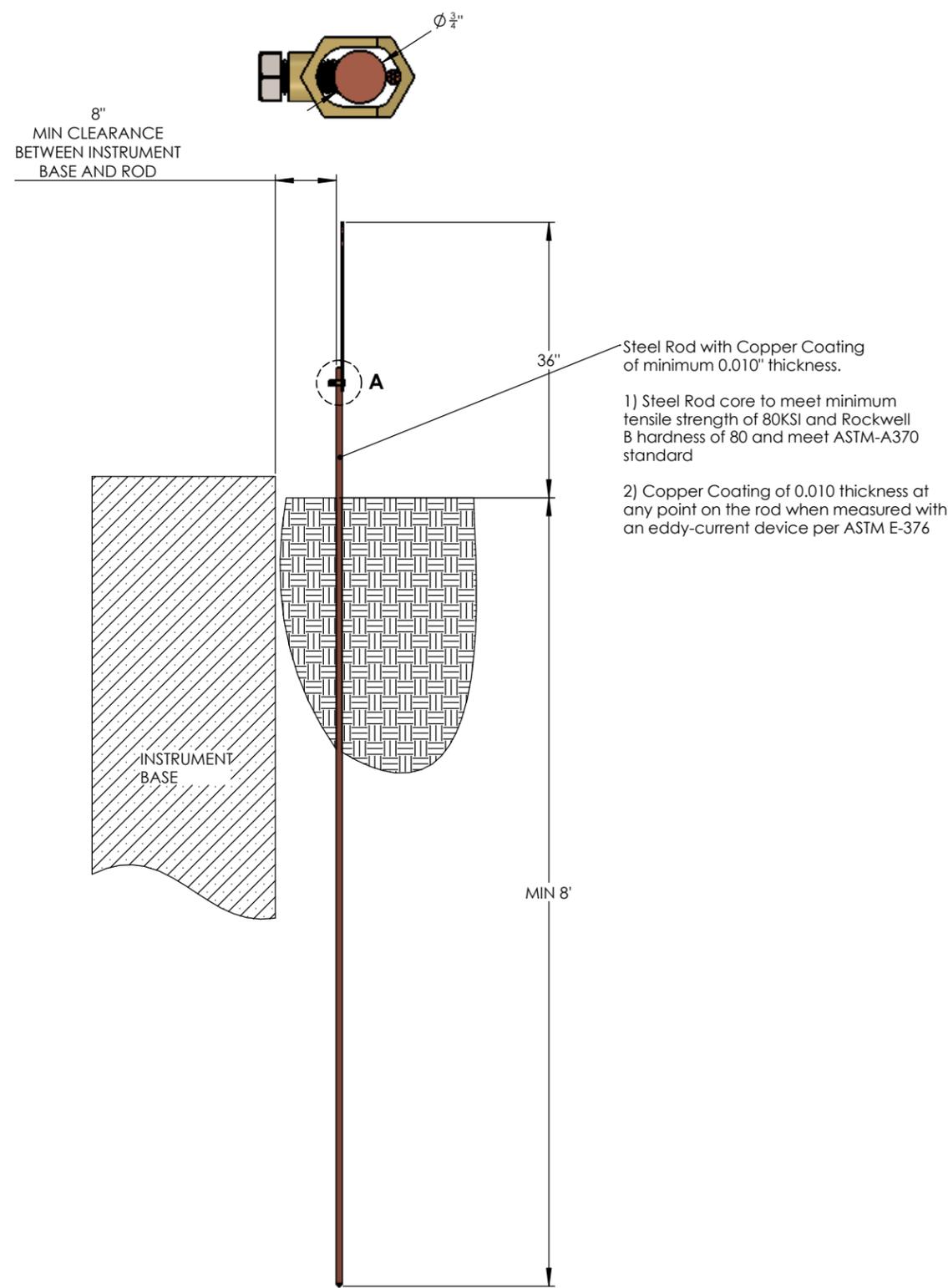
 Environment Canada / Environnement Canada
Meteorological Service of Canada / Service Météorologique du Canada

TITLE: **JUNCTION BOX FRAME COMPONENTS**

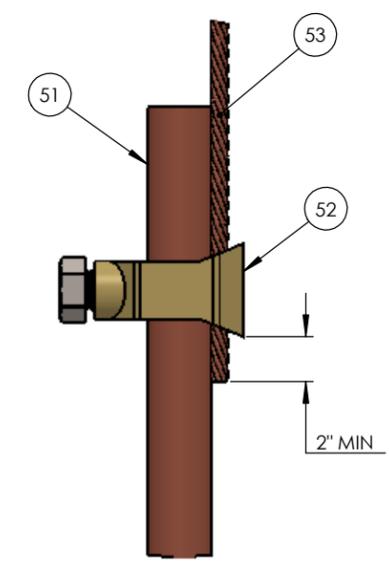
DRAWING NUMBER: **GND-AWS-D2** REVISION: **01**

ITEM	DESCRIPTION	MATERIAL	QUANTITY
51	GROUNDING ROD, 3/4" DIAMETER, 10' LENGTH, Steel Rod with Copper Coating	Copper Plated Steel Core	1
52	GROUNDING ROD CONNECTOR, THOMAS AND BETTS JAB34 OR EQUIVALENT	N/A	1
53	BARE COPPER WIRE, 6 AWG, 7 STRAND	COPPER	8' (2m)

REVISION HISTORY			
REV.	DESCRIPTION	DATE	INIT
01	INITIAL RELEASE	22/APR/15	MS



**DETAIL A
GROUNDING CABLE
ATTACHMENT**



NOTES:

1. MINIMUM 8" GROUNDING ROD DEPTH BELOW GRADE.
2. GROUNDING CABLE MUST EXTEND MINIMUM 36" ABOVE INSTRUMENT MOUNTING BASE.
3. MINIMUM 8" CLEARANCE BETWEEN GROUNDING ROD ASSEMBLY AND FOOTINGS OR OTHER OBSTRUCTIONS.

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ANGULAR: $\pm 2.0^\circ$

DESIGN: **J. HOOVER / M. SINGH** 11-JUN-2015

APPROVED: **SORIN PINZARIU / P. LEJBJUK** 11-JUN-2015

MATERIAL: N/A

FINISH: N/A

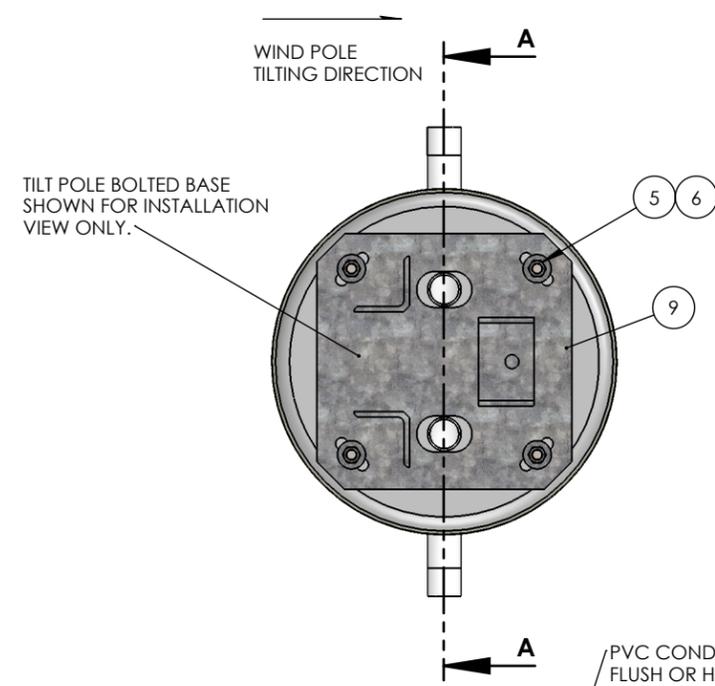
SPECIFICATION:

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED

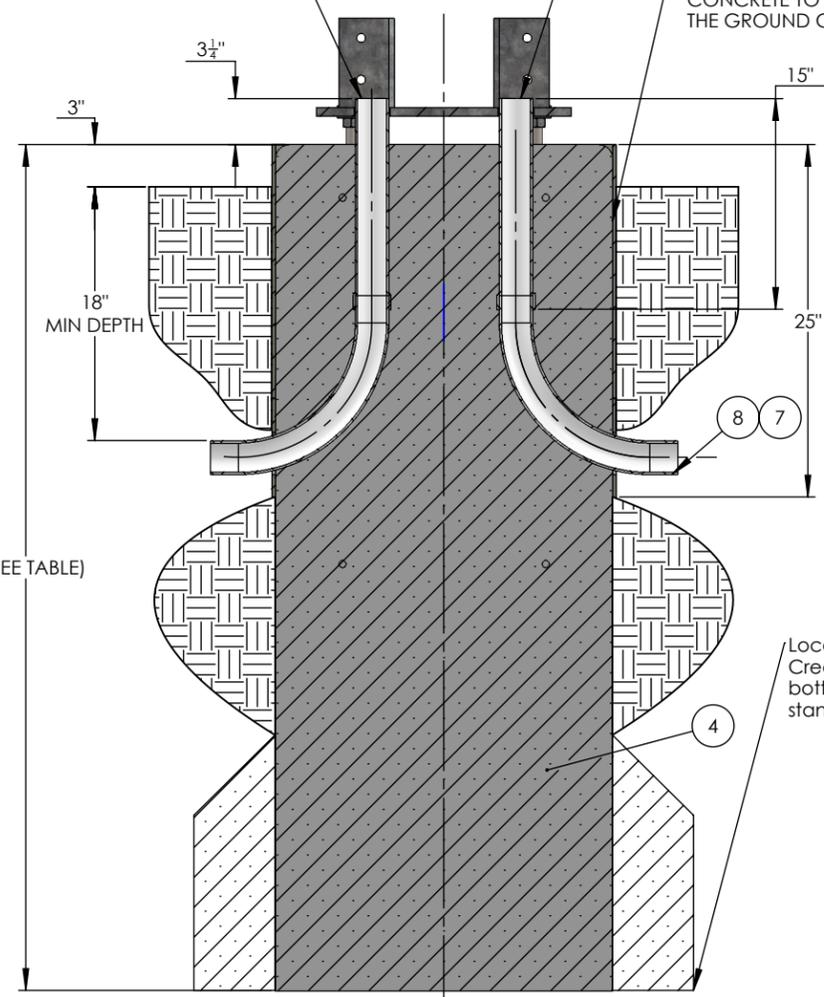
Environment Canada / Environnement Canada
Meteorological Service of Canada / Service Météorologique du Canada

TITLE: **GROUNDING ROD ASSEMBLY**

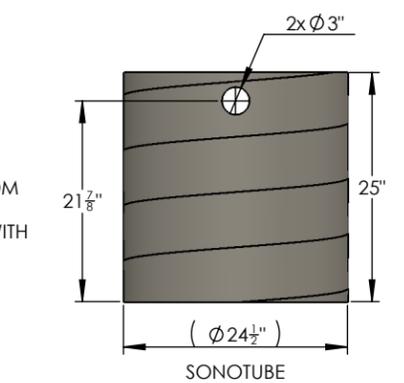
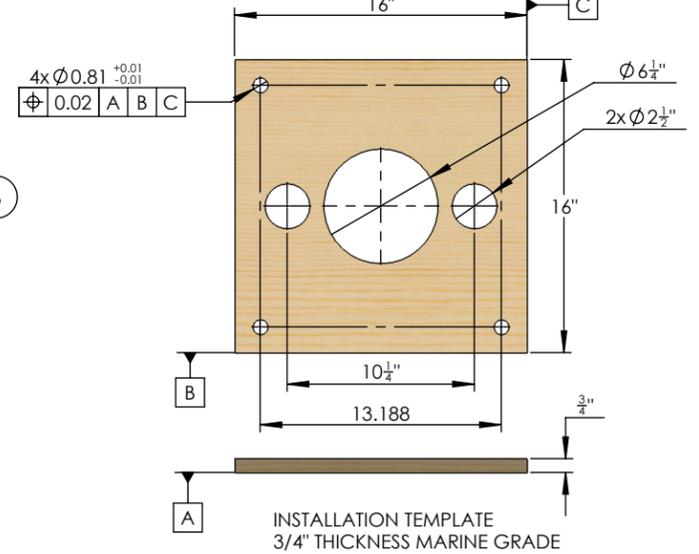
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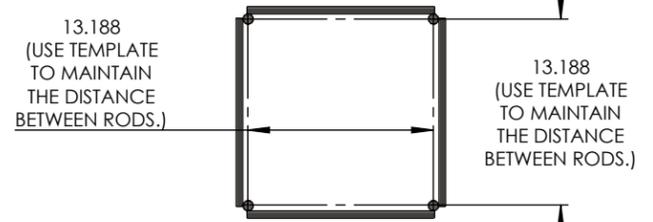
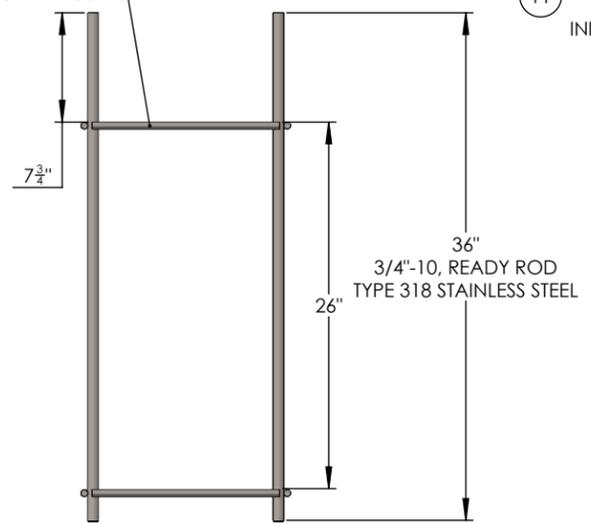
Use Flat Cap to seal the top and Drill to install Liquitight Cord Grop with Cord grip dia 0.71" to 0.98" (McMaster Carr Part# 6991KK73)



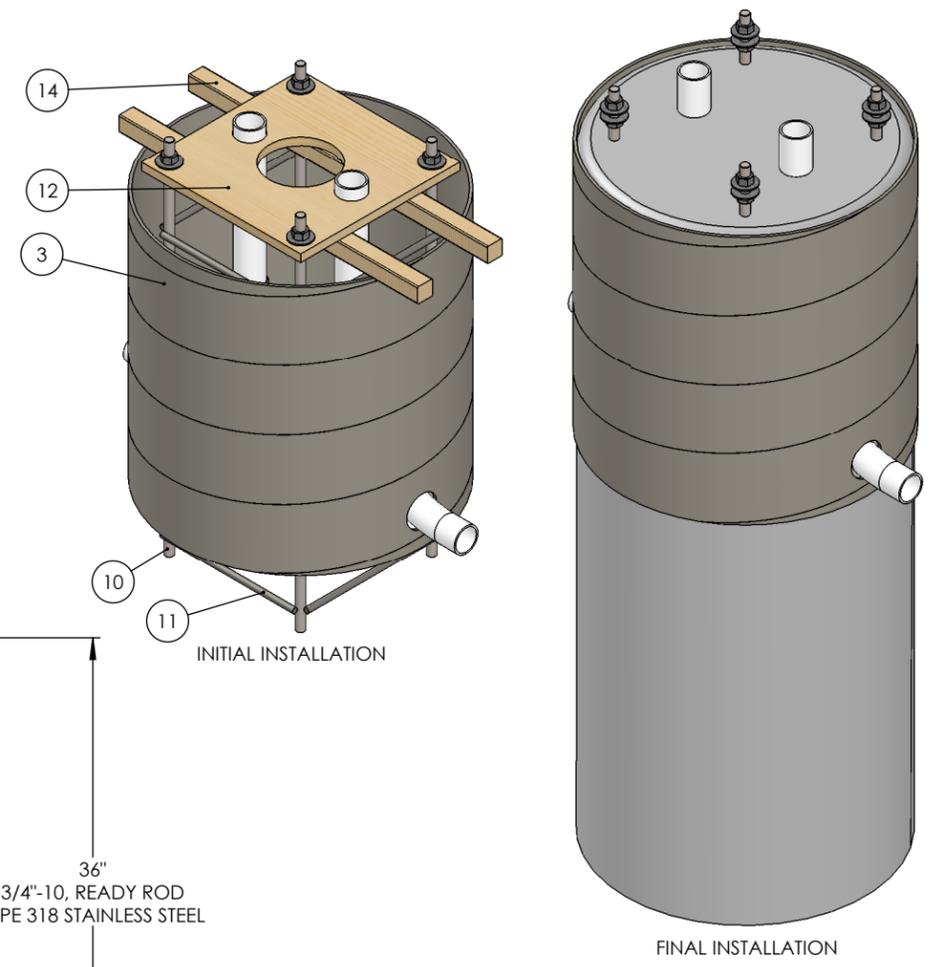
SECTION A-A



RECOMMENDED TO USE 1/2" REBARS. REBARS CAN BE ATTACHED USING TIE WIRE. THE CAD IS SHOWN FOR REFERENCE. STANDARD BENT BARS CAB BE USED.



ITEM NO.	DESCRIPTION	QTY.
3	SONOTUBE, 24" DIAMETER, 25"-28" LENGTH	1
4	10M Wind Tower - Concrete Base	1
5	HEX NUT, 3/4"-10	8
6	WASHER, 3/4"	8
7	UPPER CONDUIT, Trade Size 2, McMaster Carr-7912K16	2
8	90 Degree Long Elbow, Trade Size 2, McMaster Carr-7945K46	2
9	TILTPOLE BOLTED BASE - Drawing B3011-43	1
10	3/4"-10, TYPE 316 Stainless Steel- 3' Length, McMaster Carr - 93250A173	4
11	Steel Rebar Dia 0.5" x 8.5"	8
12	10M Wind Tower Base Template	1
14	Lumber 2" x 2" Length 30"	2



CLASS OF SOIL	DEPTH 'H' (INCH)
GOOD - COMPACTED WELL GRADED SAND AND GRAVEL HARD CLAY WELL-GRADED FINE AND COARSE SAND (ALL DRAINED SO WATER WILL NOT STAND)	60
AVERAGE - COMPACT FINE SAND MEDIUM CLAY COMPACT SANDY LOAM LOOSE COARSE SAN AND GRAVEL (ALL DRAINED SO WATER WILL NOT STAND)	82
POOR- SOFT CLAY CLAY LOAM POORLY COMPACTED SAND CLAYS CONTAINING LARGE AMOUNTS OF SILT (WATER STANDS DURING WET SEASON)	118

REVISION HISTORY:			
REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	13/JUL/15	M.S.

- ENSURE CONCRETE SURFACE IS SLIGHTLY DOMES SO NO WATER IS ACCUMULATED ON THE BASE.
- EYEBOLT THREADS MUST BE CLEAN AND UNDAMAGED DURING INSTALALTION.
- SONOTUBE MATERIAL REMOVED UP-TO 12" BELOW GRADE AFTER INSTALLATION. ALL SCRAP MATERIAL REMOVED FROM SITE.
- CONCRETE MUST MEET REGIONAL STANDARD AND SCA A23.1, SCA 23.3. CONCRETE COMPRESSIVE STRENGTH SHALL BE MIN 21 MPa AT 28 DAYS. DO NOT USE RAPID SETTING MIXTURES.
- CONCRETE TO HAVE AIR ENTRAPMENT AND AIR CONTENT OF 4-9% AS PER ASTM C 457, FREEZE THAW RESISTANCE DURABILITY >90% AS PER ASTM C666.
- SOIL AROUND FOOTING MUST BE COMPACTED AS PER REGIONAL STANDARDS.
- SEE SITE LAYOUT DRAWING GND-AWS-LA2 FOR BASE ORENTIATION (CONDUIT EXIT).
- DESIGN APPLICABLE TO STANDARD SURFACE AUTOMATIC WEATHER STATION LAYOUT.
- REBAR CAGE REQUIRED AS DRAWN TO PROVIDE ADDED STRENGTH.

DO NOT SCALE

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ANGULAR: ±2.0°

DESIGN: **J. HOOVER / M. SINGH** 13-JUL-2015

APPROVED: **SORIN PINZARIU / P. LEJBJUK** 13-JUL-2015

MATERIAL: **N/A**

FINISH: **N/A**

SPECIFICATION:

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED



Meteorological Service of Canada
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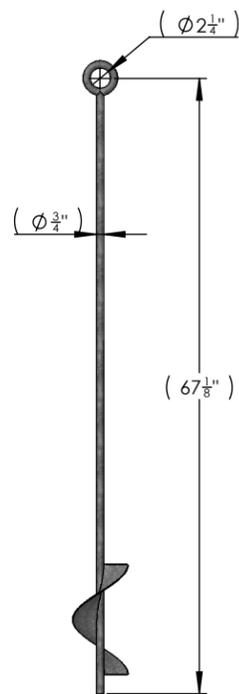
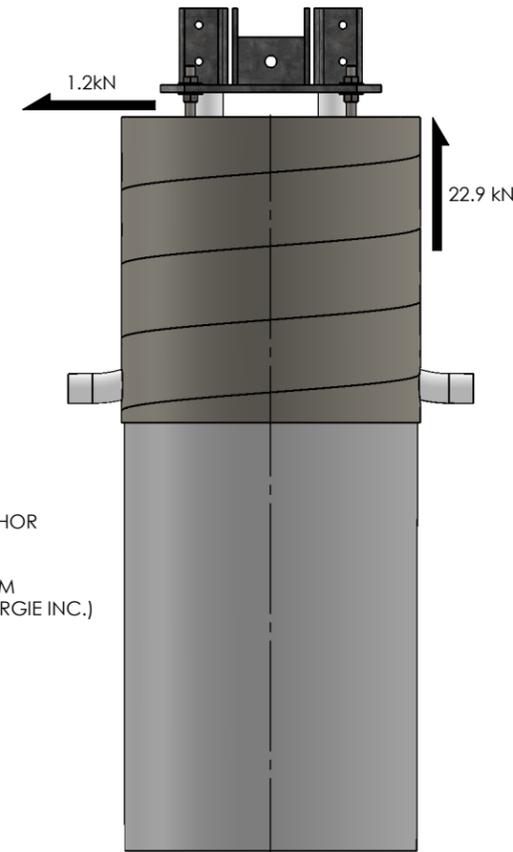
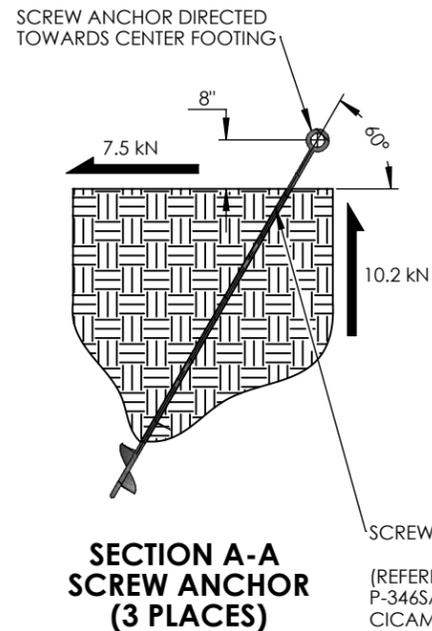
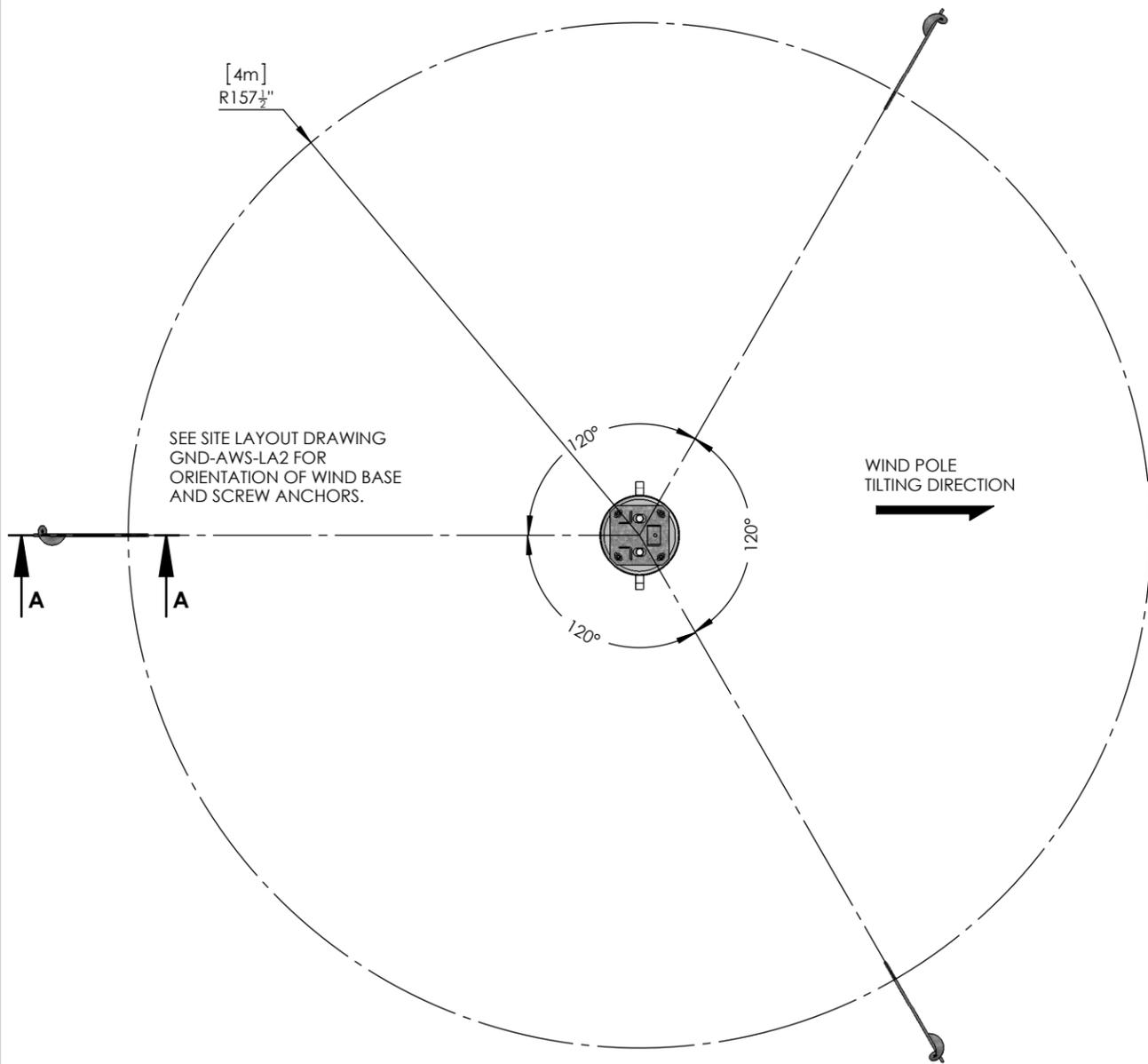
TITLE:
STANDARD 10M WIND TOWER CONCRETE BASE

DRAWING NUMBER: **GND-AWS-B1** REVISION: **01**

REVISION HISTORY:

REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	13/JUL/15	M.S.

1. BASE TO BE DESIGNED TO MEET REACTION FORCES AS SHOWN IN THIS DRAWING.
2. CONCRETE FOOTING FOR ANCHORS CAN BE DESIGNED THAT CAN MEET THE REACTION FORCES.



HOT DIPPED GALVANIZED SCREW ANCHOR

DO NOT SCALE

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THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF OSE. ANY REPRODUCTION OR MODIFICATION, IN PART OR AS A WHOLE, WITHOUT THE WRITTEN PERMISSION OF OSE IS STRICTLY PROHIBITED.

TOLERANCES UNLESS OTHERWISE SPECIFIED:
LINEAR: ±1"
ANGULAR: ±2.0°

DESIGN: **J. HOOVER / M. SINGH** 13-JUL-2015

APPROVED: **SORIN PINZARIU / P. LEJBJUK** 13-JUL-2015

MATERIAL: N/A

FINISH: N/A

SPECIFICATION:

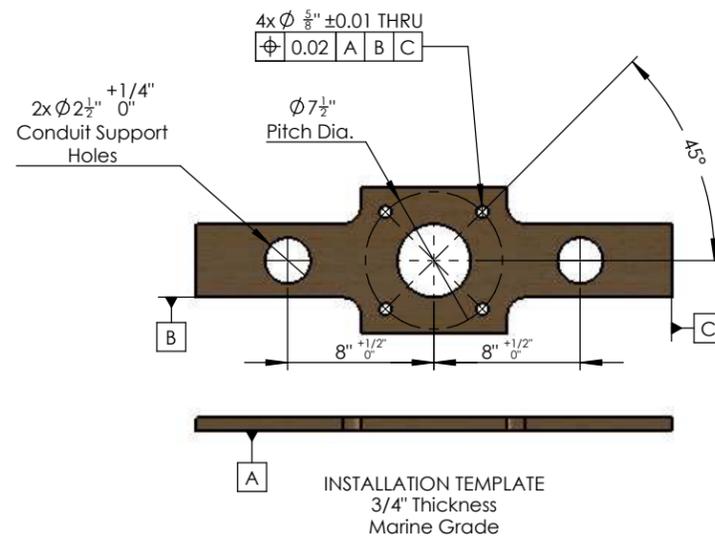
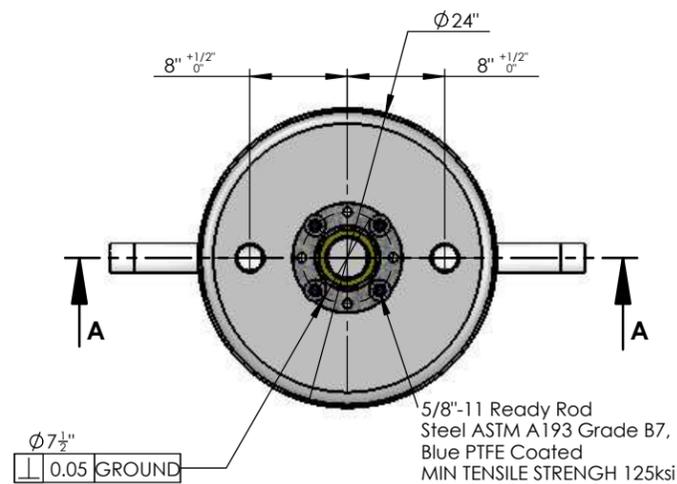


ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED

Environment Canada / Environnement Canada
Meteorological Service of Canada / Service Météorologique du Canada

TITLE:
STANDARD 10M WIND TOWER CONCRETE BASE

DRAWING NUMBER: **GND-AWS-B1** REVISION: **01**

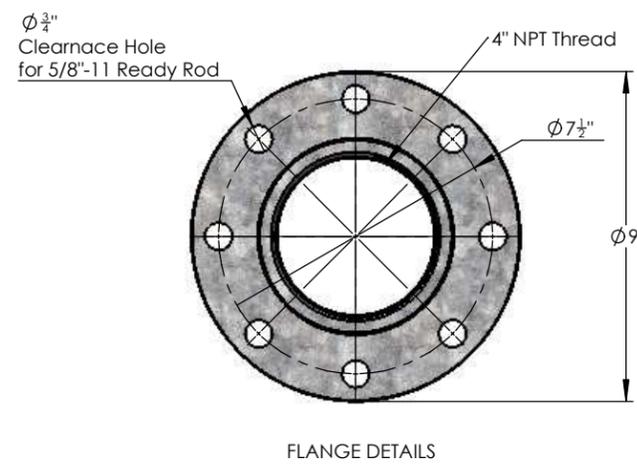
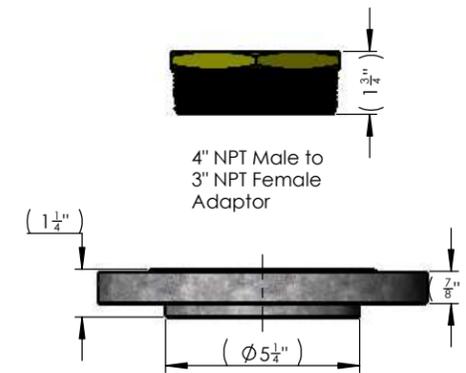
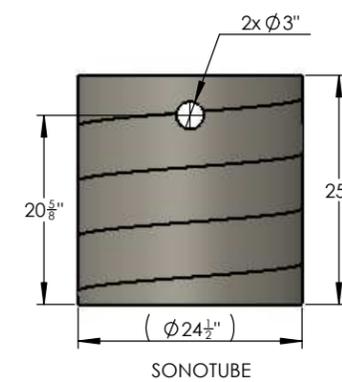
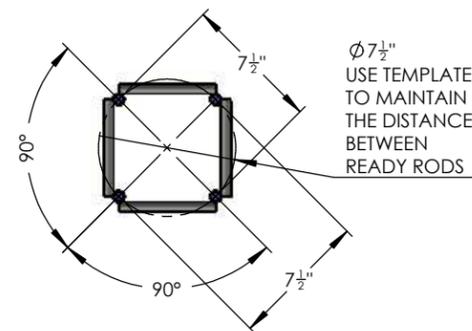
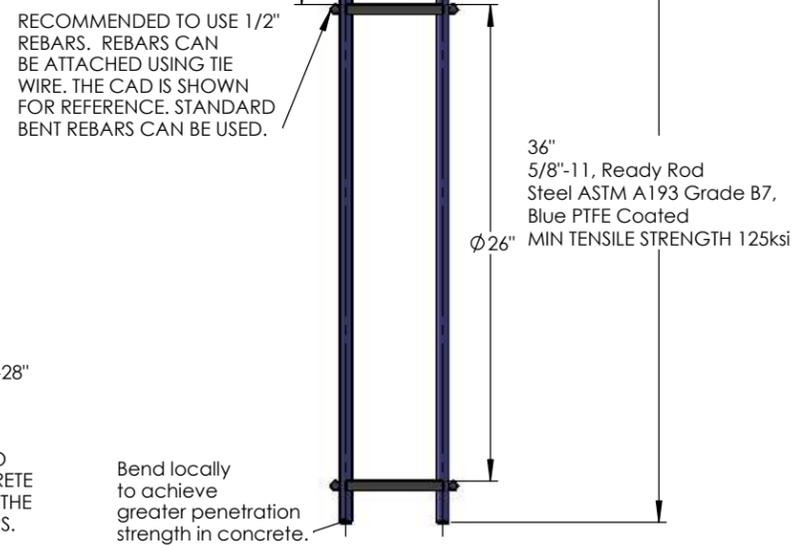
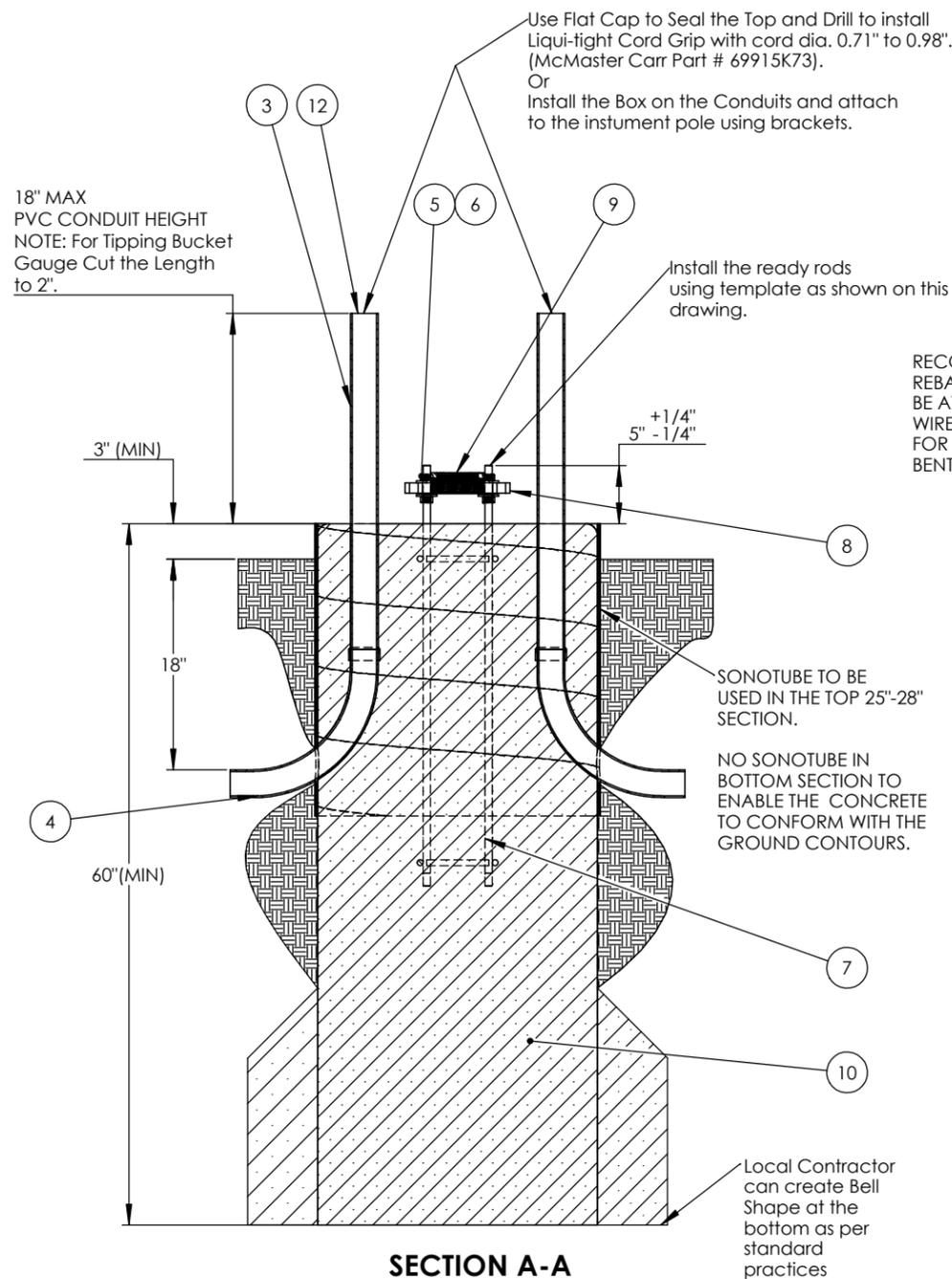


ITEM NO.	DESCRIPTION	QTY.
3	UPPER CONDUIT, Trade Size 2, McMaster Carr-7912K16	2
4	90 Degree Long Elbow, Trade Size 2, McMaster Carr-7945K46	2
5	5/8"-11 Grade 2 Steel, Hot-Dipped Galvanized Nut, McMaster Carr-90371A050	8
6	5/8"-11 OD 1.75" Hot-Dipped Galvanized Washer Washer, McMaster Carr-98970A135	8
7	5/8"-11, ASTM A193 Grade B7 Steel- PTFE Coated Stud, Min Tensile Strength 125ksi, 3' Length, McMaster Carr - 98752A537	4
8	Galvanized Steel Threaded Flange 4" Pipe x 9" OD, McMaster Carr-7551K128	1
9	4" NPT Male to 3" NPT Female, Galvanized Iron Zinc-Plated Hex Reducer- McMaster Carr - 4638K249	1
10	Precipitation Gauge - Concrete Base	1
11	Steel Rebar Dia 0.5" x 8.5"	8
12	Liquid-Tight Cord grip, for 0.71" - 0.98" Cord Diameter, 1-1/4 Trade Size. Mc Master Carr-69915K73	2

REVISION HISTORY:			
REV	DESCRIPTION	DATE	INIT.
01	Initial Release	28/APR/15	M.S.

NOTES:

- ENSURE CONCRETE SURFACE IS SLIGHTLY DOMED SO NO WATER IS ACCUMULATED ON THE BASE.
- READY ROD THREADS MUST BE CLEAN. PROTECT DURING INSTALLATION.
- SONOTUBE MATERIAL REMOVED UPTO 12" BELOW GRADE. ALL SCRAP MATERIAL REMOVED FROM SITE.
- ADDITIONAL REINFORCEMENT REBAR NOT REQUIRED IN CONCRETE FORMS.
- CONCRETE MUST MEET REGIONAL STANDARDS AND CSA A23.1, CSA A23.3. CONCRETE COMPRESSIVE STRENGTH SHALL BE MIN 31MPa AT 28 DAYS. DONOT USE RAPID SETTING MIXTURES.
- CONCRETE TO HAVE AIR ENTRAPMENT AND AIR CONTENT OF 4-9% AS PER ASTM C 457, FREEZE THAW RESISTANCE DURABILITY >90% AS PER ASTM C666.
- SOIL AROUND FOOTING MUST BE COMPACTED AS PER REGIONAL STANDARDS.
- SEE SITE LAYOUT DRAWING GND-AWS-LA2 FOR BASE ORIENTATION (CONDUIT EXIT).
- DESIGN APPLICABLE TO STANDARD SURFACE AUTOMATIC WEATHER STATION LAYOUT.



DO NOT SCALE

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 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF OSE. ANY REPRODUCTION OR MODIFICATION, IN PART OR AS A WHOLE, WITHOUT THE WRITTEN PERMISSION OF OSE IS STRICTLY PROHIBITED.

TOLERANCES UNLESS OTHERWISE SPECIFIED:
 LINEAR: $\pm 1''$
 ANGULAR: $\pm 2.0^\circ$

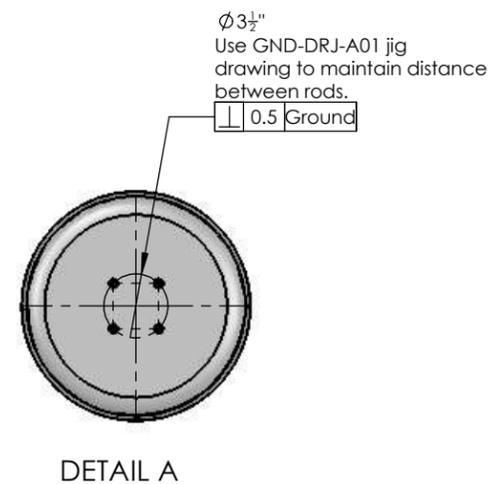
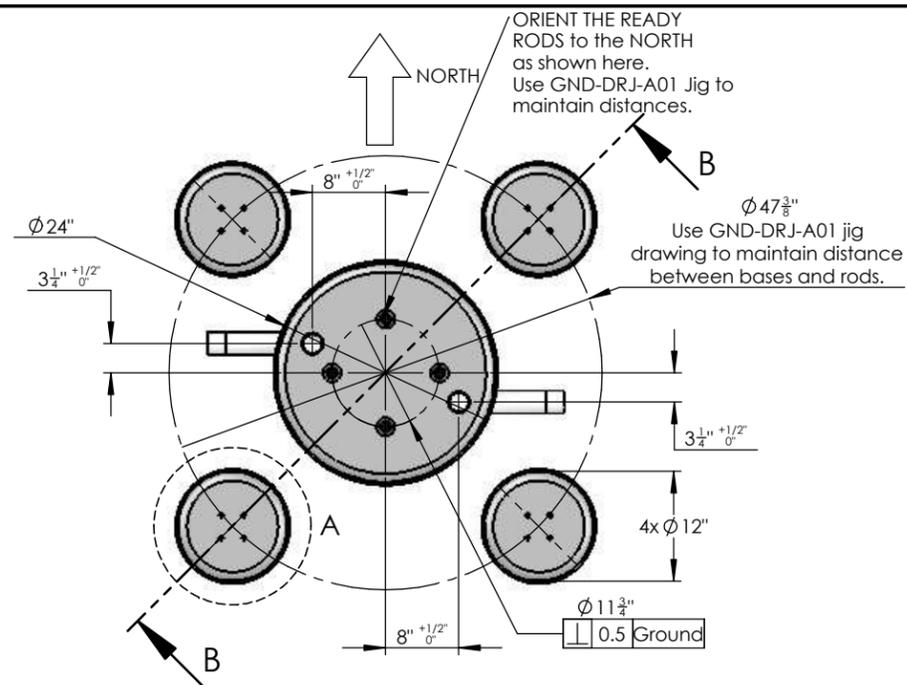
DESIGN:	J. HOOVER / M. SINGH	11-JUN-2015
APPROVED:	SORIN PINZARIU / P. LEJBJUK	11-JUN-2015
MATERIAL:	N/A	
FINISH:	N/A	
SPECIFICATION:		

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED

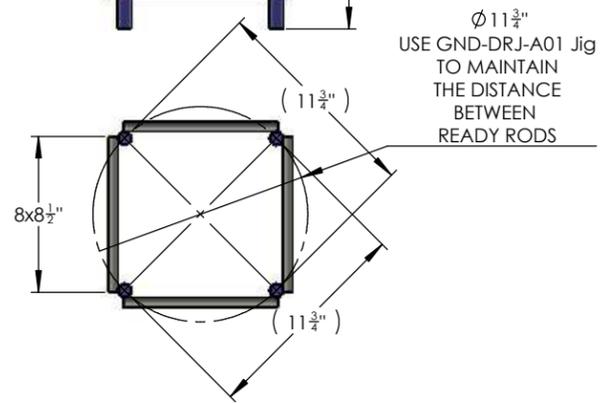
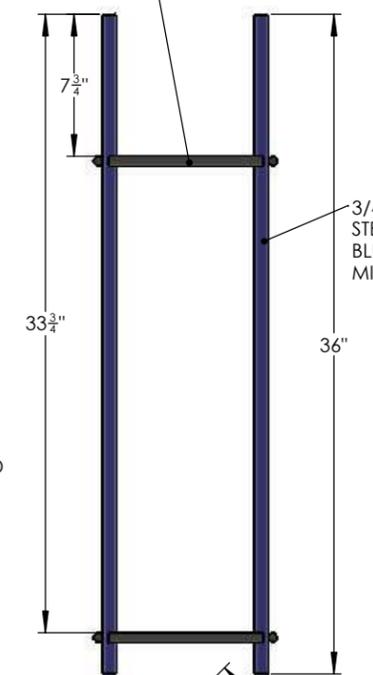
Environment Canada / Environnement Canada
 Meteorological Service of Canada / Service Météorologique du Canada

TITLE:
STANDARD INSTRUMENT BASE

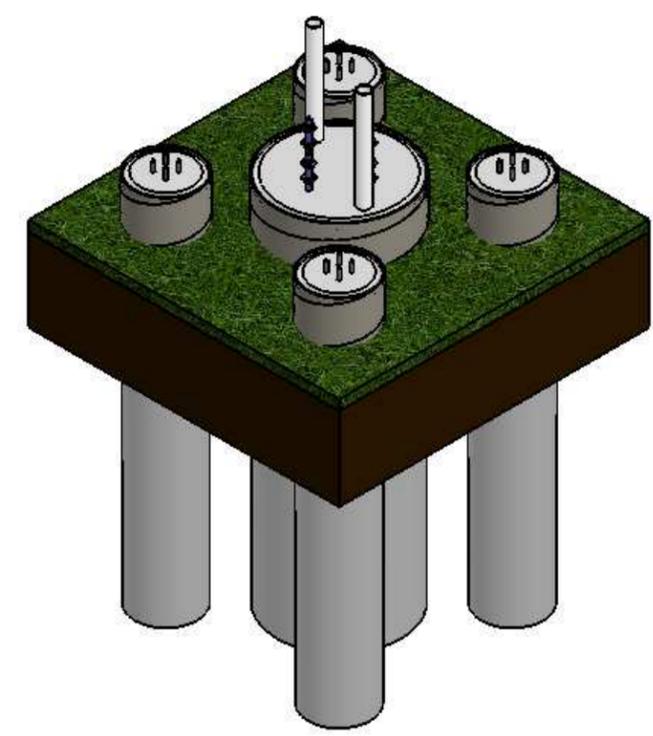
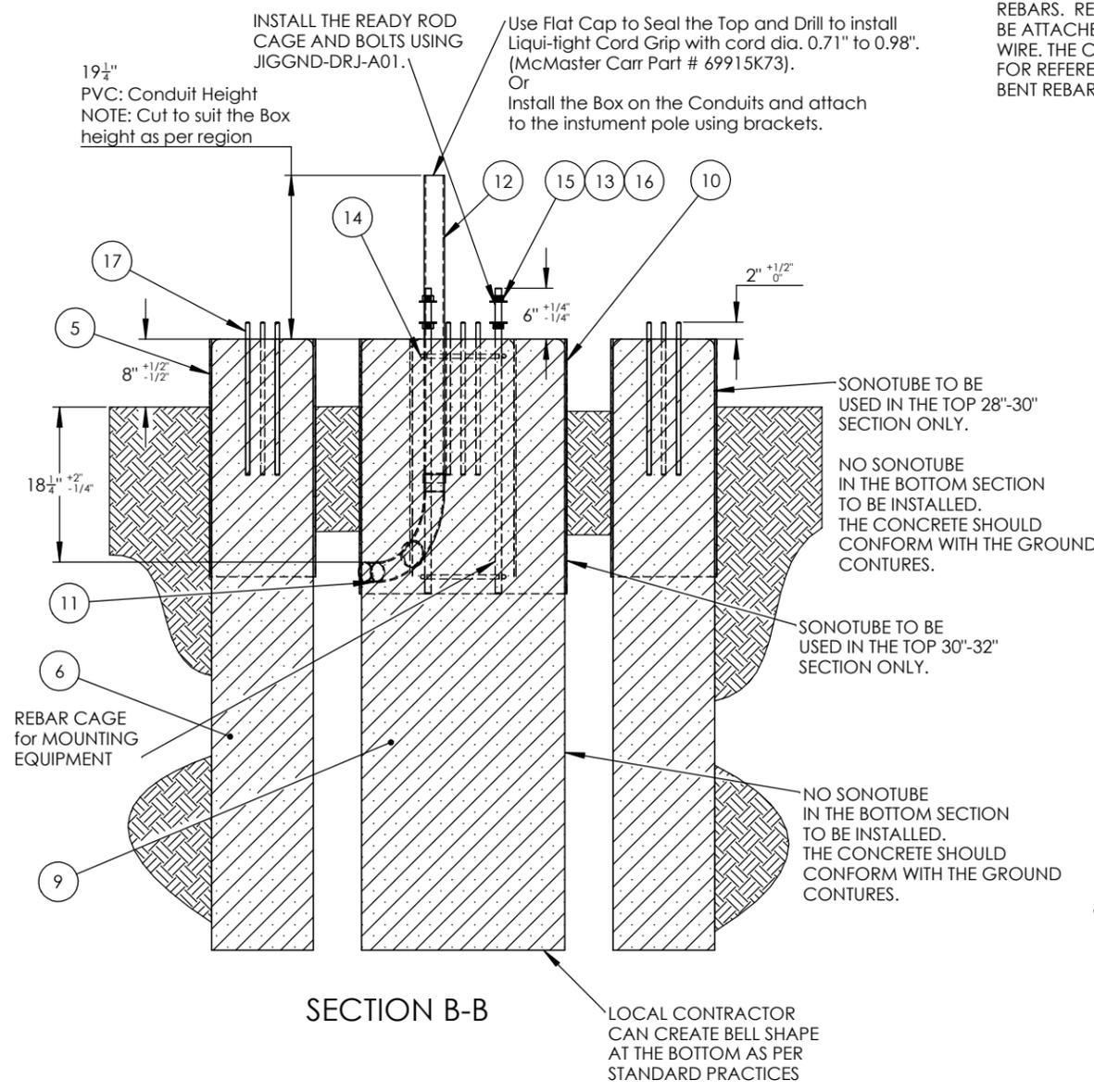
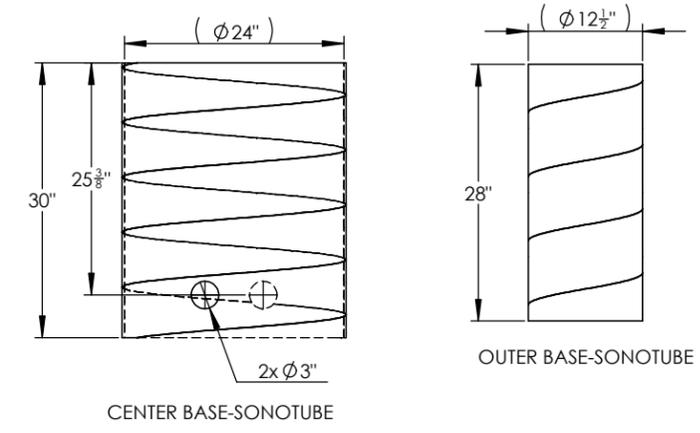
DRAWING NUMBER:	GND-AWS-A1	REVISION:	01
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RECOMMENDED TO USE 1/2" REBARS. REBARS CAN BE ATTACHED USING TIE WIRE. THE CAD IS SHOWN FOR REFERENCE. STANDARD BENT REBARS CAN BE USED.



ITEM NO.	DESCRIPTION	QTY.
5	Outer Base-Sonotube	4
6	Precipitation Gauge- Outer Support Concrete Base	4
9	Precipitation Gauge - Concrete Base	1
10	Cetnre Base- Sonotube	1
11	90 Degree Long Elbow, Trade Size 2, McMaster Carr-7945K46	2
12	UPPER CONDUIT, Trade Size 2, McMaster Carr-7912K16	2
13	3/4"-10, ASTM A193 Grade B7 Steel- PTFE Coated Stud, Min Tensile Strength 125ksi, 3' Length, McMaster Carr - 98752A541	4
14	Steel Rebar Dia 0.5" x 8.5"	8
15	HEX NUT, 3/4"-10, Grade 2 Steel, Hot Dipped Galvanized	8
16	WASHER, 3/4" OD=2", Hot Dispped Galvanized Steel	8
17	1/2"-13 Stainless Steel Fully Threaded Rod - McMasterCarr -98804A118	16



REVISION HISTORY:			
REV	DESCRIPTION	DATE	INIT
01	Initial Release	11/MAY/15	M.S.

NOTES:

- ENSURE CONCRETE SURFACE IS SLIGHTLY DOMED SO NO WATER IS ACCUMULATED ON THE BASE.
- READY ROD THREADS MUST BE CLEAN. PROTECT DURING INSTALLATION.
- SONOTUBE MATERIAL REMOVED UPTO 12" BELOW GRADE. ALL SCRAP MATERIAL REMOVED FROM SITE.
- ADDITIONAL REINFORCEMENT REBAR NOT REQUIRED IN CONCRETE FORMS.
- CONCRETE MUST MEET REGIONAL STANDARDS AND CSA A23.1, CSA A23.3. CONCRETE COMPRESSIVE STRENGTH SHALL BE MIN 31MPa AT 28 DAYS. DONOT USE RAPID SETTING MIXTURES.
- CONCRETE TO HAVE AIR ENTRAPMENT AND AIR CONTENT OF 4-9% AS PER ASTM C 457, FREEZE THAW RESISTANCE DURABILITY >90% AS PER ASTM C666.
- SOIL AROUND FOOTING MUST BE COMPACTED AS PER REGIONAL STANDARDS.
- SEE SITE LAYOUT DRAWING GND-AWS-LA2 FOR BASE ORIENTATION (CONDUIT EXIT).
- DESIGN APPLICABLE TO STANDARD SURFACE AUTOMATIC WEATHER STATION LAYOUT.

DO NOT SCALE

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TOLERANCES UNLESS OTHERWISE SPECIFIED:
LINEAR: $\pm 1"$
ANGULAR: $\pm 2.0^\circ$

DESIGN:	J. HOOVER / M. SINGH	11-JUN-2015
APPROVED:	SORIN PINZARIU / P. LEJBKUK	11-JUN-2015
MATERIAL:	N/A	
FINISH:	N/A	
SPECIFICATION:		

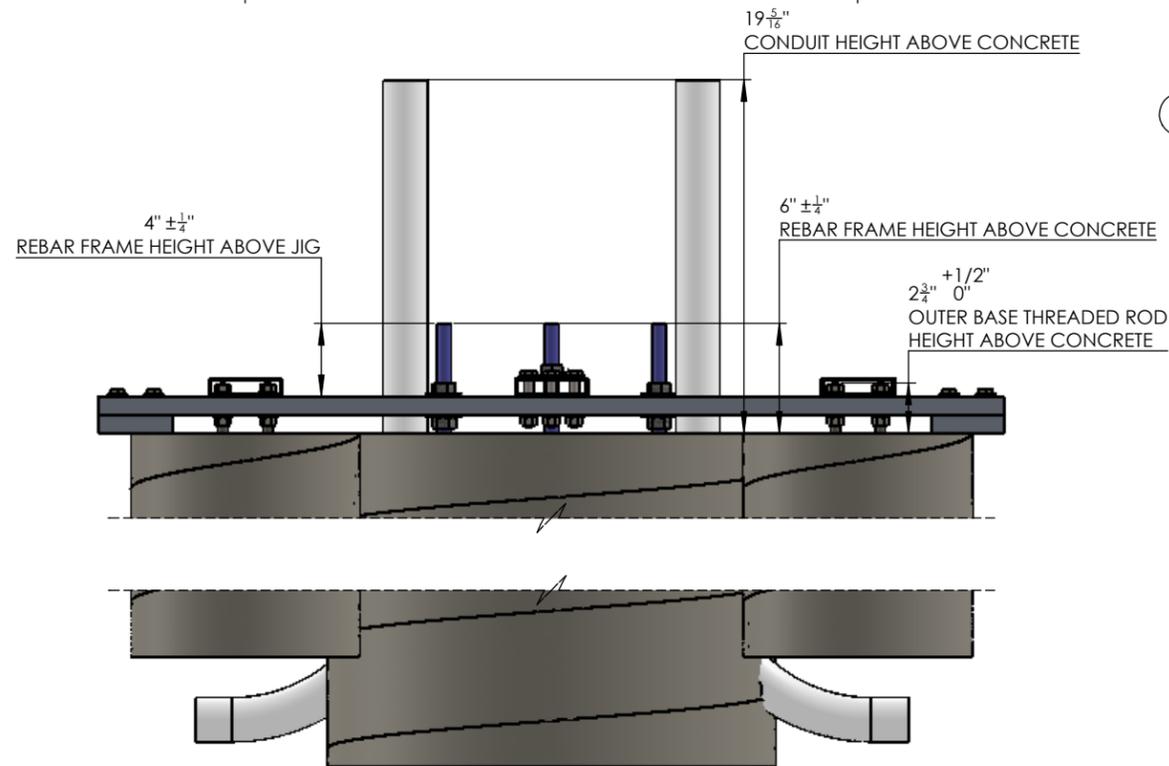
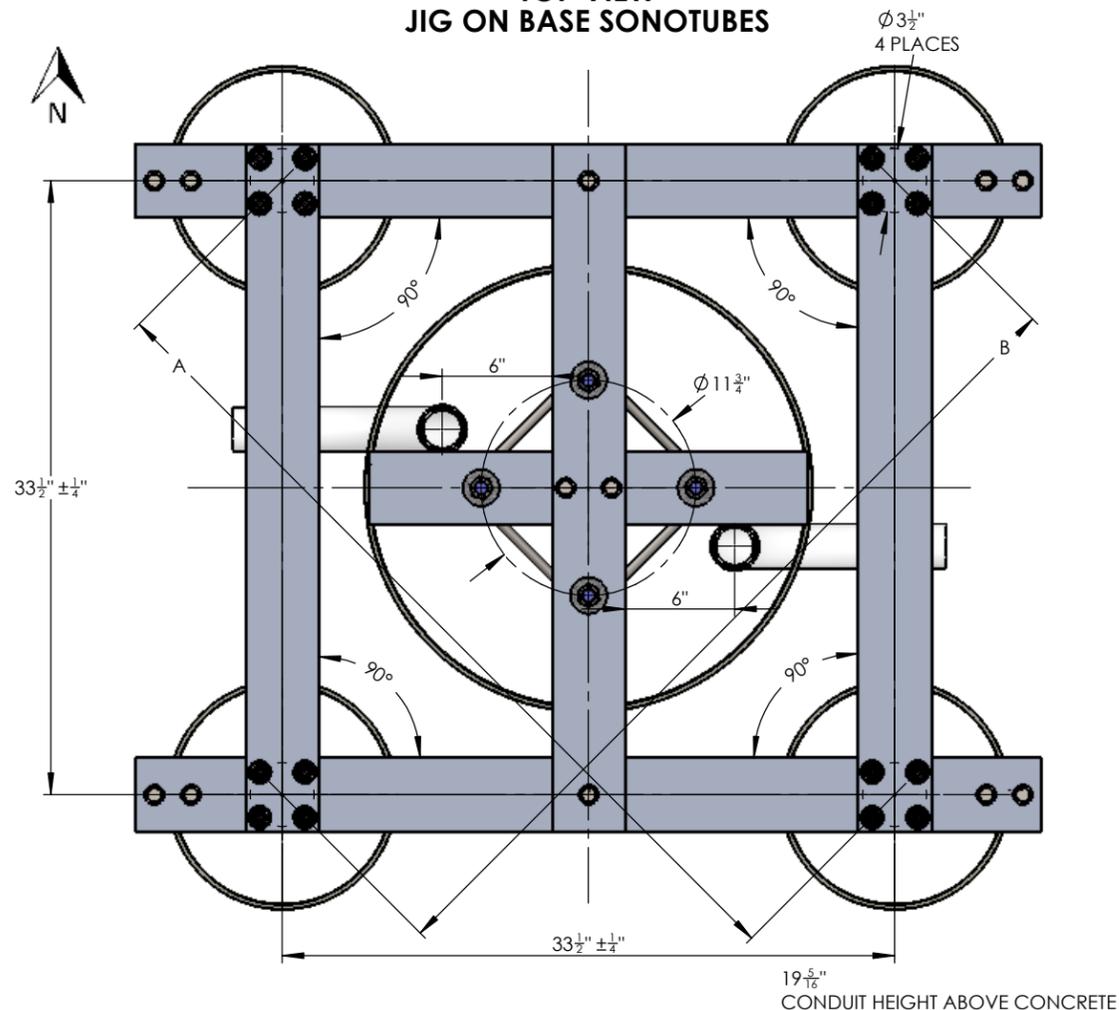
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED

Environment Canada / Environnement Canada
Meteorological Service of Canada / Service Météorologique du Canada

TITLE:
STANDARD PRECIPITATION WEIGHING GAUGE BASE

DRAWING NUMBER:	REVISION:
GND-AWS-C1	01

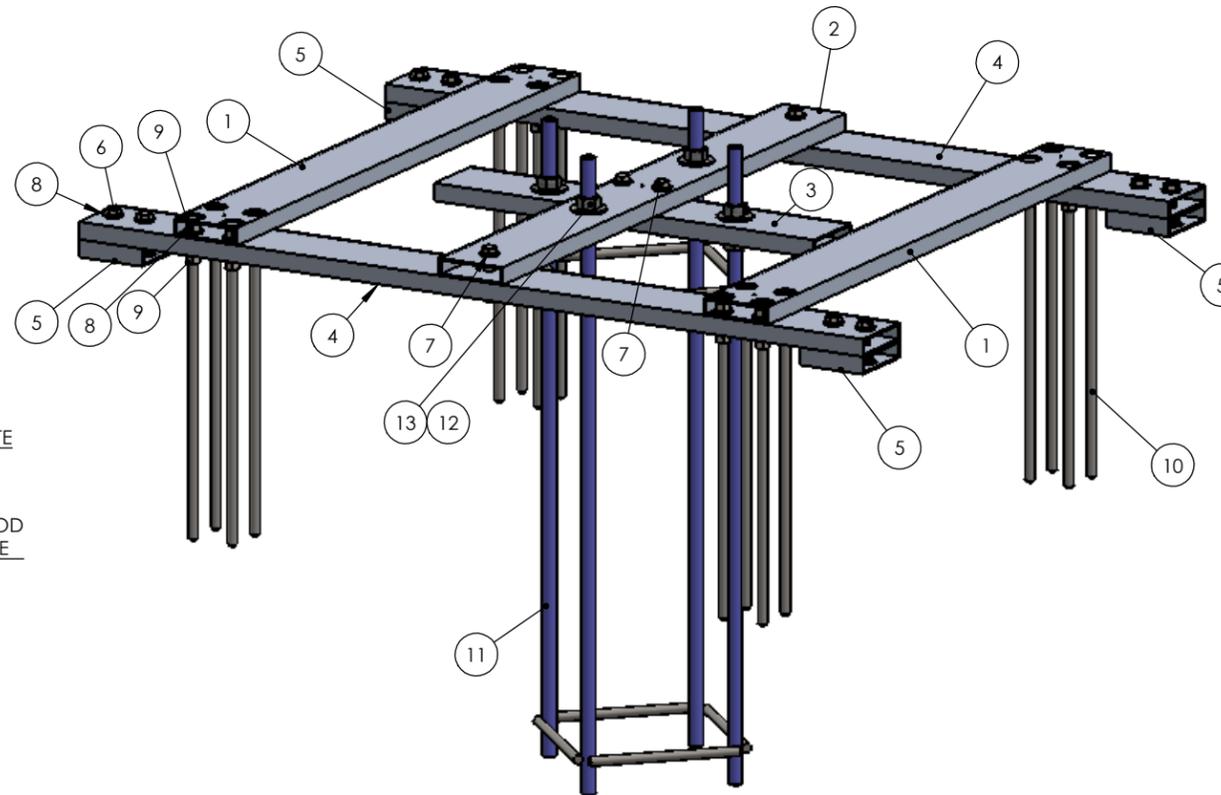
**TOP VIEW
JIG ON BASE SONOTUBES**



BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL	QUANTITY
1	RECTANGULAR TOP TUBE, 4" X 1" X 0.12", DRAWING GND-DRJ-A02	6063-T5 ALUMINUM	2
2	RECTANGULAR CENTER TUBE, 4" X 1" X 0.12", DRAWING GND-DRJ-A02	6063-T5 ALUMINUM	1
3	RECTANGULAR CENTER LOWER TUBE, 4" X 1" X 0.12", DRAWING GND-DRJ-A02	6063-T5 ALUMINUM	1
4	RECTANGULAR MIDDLE TUBE, 4" X 1" X 0.12", DRAWING GND-DRJ-A02	6063-T5 ALUMINUM	2
5	RECTANGULAR BOTTOM TUBE, 4" X 1" X 0.12", DRAWING GND-DRJ-A02	6063-T5 ALUMINUM	4
6	HEX HEAD CAP SCREW, 1/2"-13, 2" LENGTH, MCMASTER-CARR 92186A720 OR EQUIVALENT	316 STAINLESS STEEL	8
7	HEX HEAD CAP SCREW, 1/2"-13, 2 3/4" LENGTH, MCMASTER-CARR 92186A723 OR EQUIVALENT.	316 STAINLESS STEEL	4
8	WASHER, 1/2" SAE, MCMASTER-CARR 91950A033 OR EQUIVALENT.	316 STAINLESS STEEL	56
9	HEX NUT, 1/2"-13, MCMASTER-CARR 94804A340 OR EQUIVALENT.	316 STAINLESS STEEL	44
10	THREADED ROD, 0.5-13, 18" LENGTH, MCMASTER-CARR 98804A118 OR EQUIVALENT.	18-8 STAINLESS STEEL	16
11	GEONOR MOUNTING REBAR FRAME. SEE DRAWING GND-SAS-C1 FOR DETAILS.	N/A	1
12	WASHER, 3/4" OD=2", Hot Dipped Galvanized Steel, McMaster Carr 98970A136	GALVANIZED STEEL	8
13	HEX NUT, 3/4"-10, Grade 2 Steel, Hot Dipped Galvanized, McMaster Carr-90371A055	GALVANIZED STEEL	8

JIG ASSEMBLY



NOTE:
 1. THE WEIGHT OF THE INSTALLED ASSEMBLY WITH RODS IS 71 (LBS)/32 (KG).
 2. THE JIG HAS TO BE INSTALLED ON THE SITE WITH READY ROD CAGE.
 3. THE ASSEMBLY PROCEDURE IS DESCRIBED IN THE ENGINEERING BULLETIN "OSE MSC EB 20150520v1 AWS FOUNDATION DRAWINGS-V1.DOC"

REVISION HISTORY:

REV	DESCRIPTION	DATE	INITIALS
A2	INITIAL PROTOTYPE	28/MAY/15	J.H.
A3	ADDED NOTES	10/JUNE/15	M.S.

NOTES:

- ASSEMBLE JIG AS PER JIG ASSEMBLY DIAGRAM. USE ITEM 6 CAP SCREWS TO ATTACH BOTTOM TUBE TO MIDDLE TUBE. USE ITEM 7 CAP SCREWS TO ATTACH CENTER TUBE (ITEM 2) TO MIDDLE TUBE AND CENTER LOWER TUBE TO CENTER TUBE.
- JIG SHOULD BE ORIENTED WITH CENTER TUBE (ITEM 2) ALIGNED WITH TRUE NORTH AS PER TOP VIEW.
- ASSEMBLE JIG WITH THREADED ROD AND REBAR FRAME HEIGHTS SPECIFIED IN JIG SIDE VIEW.
- ENSURE THAT ALL 4 JIG CORNERS ARE SQUARE AS PER TOP VIEW. CHECK DIAGONAL DISTANCES 'A' AND 'B' ARE WITHIN 1/4" AS PER TOP VIEW.
- DO NOT USE POWER TOOLS TO TIGHTEN THE BOLTS AND NUTS. HAND TIGHT THEM WITH 1/2 TURN TO FIRMLY SECURE THE CONNECTIONS.
- SEE DRAWING GND-SAS-C1 FOR COMPLETE INSTALLATION, CONDUIT AND REBAR FRAME DETAILS.
- THREADED RODS (ITEM 9) AND REBAR FRAME (ITEM 10) MUST BE CENTERED IN SONOTUBES WITHIN ± 2" AS SHOWN IN JIG TOP VIEW.
- CONDUIT CAN BE SECURED TO JIG USING 2" CLAMPS. MCMASTER-CARR 3039T19 OR EQUIVALENT.
- STAINLESS STEEL THREADED RODS AND FASTENERS CAN BE REPLACED WITH GALVANIZED STEEL BASED ON REGIONAL STANDARDS.

DO NOT SCALE

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TOLERANCES UNLESS OTHERWISE SPECIFIED
 LINEAR: ± 1/4 "
 ANGULAR: ± 1.0 °

DESIGN: **JEFFERY HOOVER** 15-MAY-2015

APPROVED: **SORIN PINZARIU** 15-MAY-2015

MATERIAL: N/A

FINISH: N/A

SPECIFICATION:

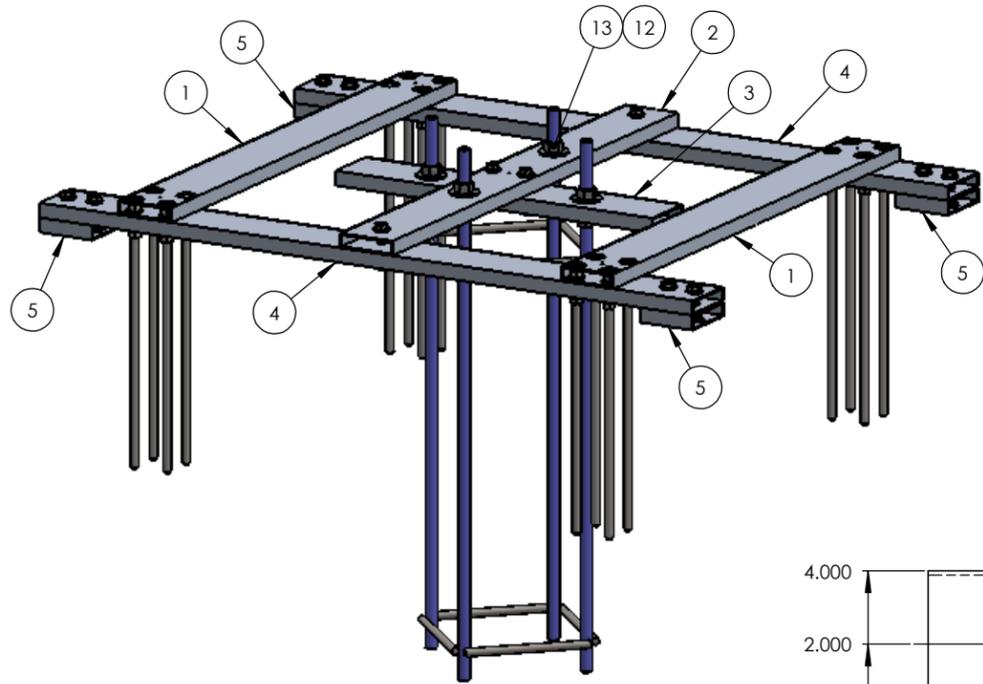
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED

Environment Canada / Environnement Canada
 Meteorological Service of Canada / Service Météorologique du Canada

TITLE:
**DOUBLE-RING SHIELD
 BASE JIG**

DRAWING NUMBER: **GND-DRJ-A01** REVISION: **A3**

JIG ASSEMBLY



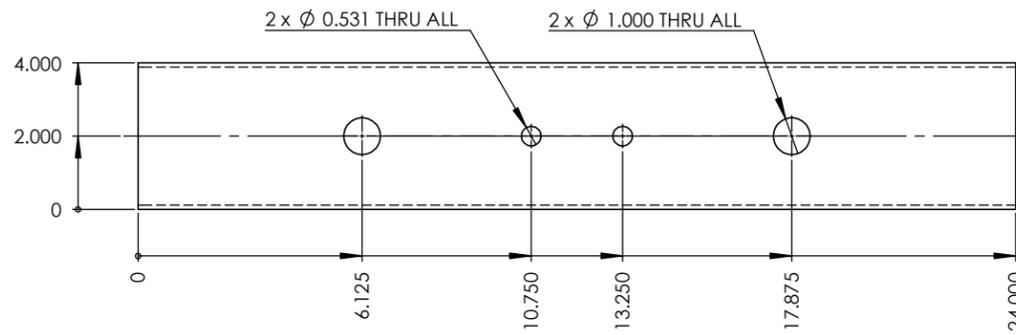
BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL	QUANTITY
1	RECTANGULAR TOP TUBE, 4" X 1" X 0.12", DRAWING GND-DRJ-A02	6063-T5 ALUMINUM	2
2	RECTANGULAR CENTER TUBE, 4" X 1" X 0.12", DRAWING GND-DRJ-A02	6063-T5 ALUMINUM	1
3	RECTANGULAR CENTER LOWER TUBE, 4" X 1" X 0.12", DRAWING GND-DRJ-A02	6063-T5 ALUMINUM	1
4	RECTANGULAR MIDDLE TUBE, 4" X 1" X 0.12", DRAWING GND-DRJ-A02	6063-T5 ALUMINUM	2
5	RECTANGULAR BOTTOM TUBE, 4" X 1" X 0.12", DRAWING GND-DRJ-A02	6063-T5 ALUMINUM	4
12	WASHER, 3/4" OD=2", Hot Dipped Galvanized Steel, McMaster Carr 98970A136		8
13	HEX NUT, 3/4"-10, Grade 2 Steel, Hot Dipped Galvanized, McMaster Carr-90371A055	GALVANIZED STEEL	8

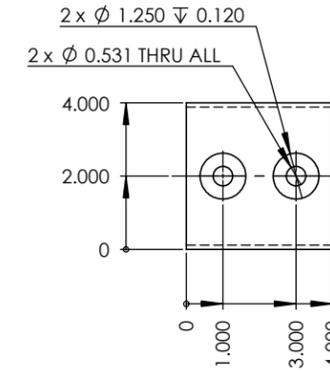
REVISION HISTORY:			
REV	DESCRIPTION	DATE	INITIALS
A2	INITIAL PROTOTYPE	28/MAY/15	J.H.

NOTES:
 1. SEE BILL OF MATERIALS FOR PART QUANTITIES.
 2. BREAK ALL SHARP EDGES TO A MINIMUM R0.005".

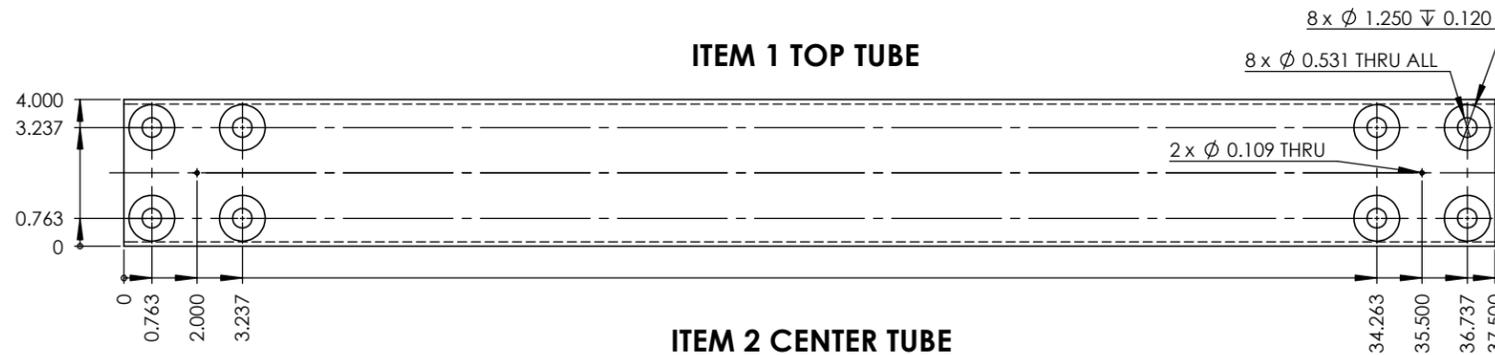
ITEM 3 CENTER LOWER TUBE



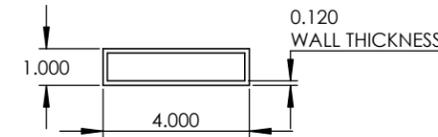
ITEM 5 BOTTOM TUBE



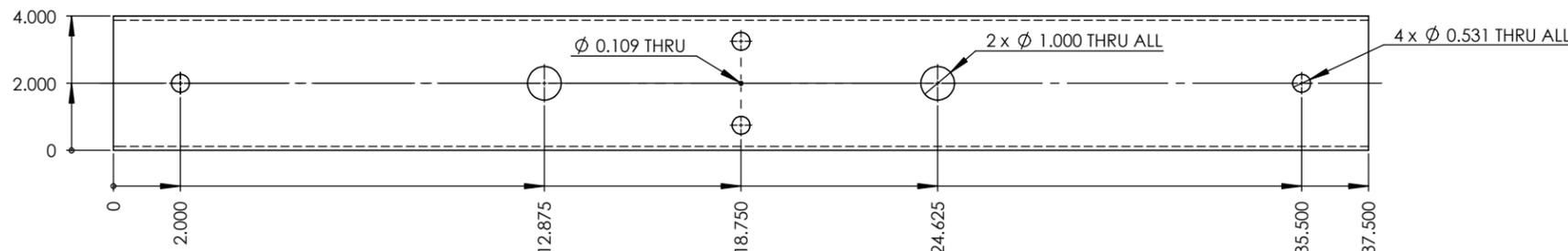
ITEM 1 TOP TUBE



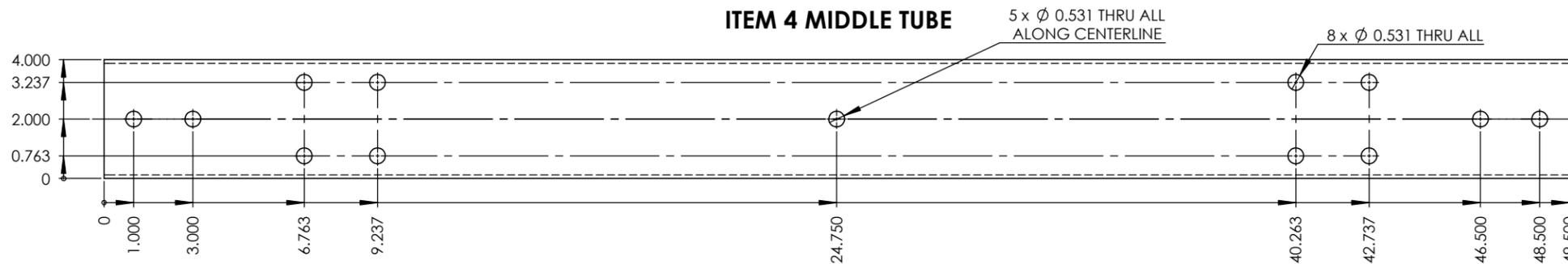
RECTANGULAR TUBE CROSS SECTION ITEMS 1 TO 5



ITEM 2 CENTER TUBE



ITEM 4 MIDDLE TUBE



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TOLERANCES UNLESS OTHERWISE SPECIFIED
 LINEAR: ± 0.031 "
 ANGULAR: ± 1.0 °

DESIGN:	JEFFERY HOOVER	15-MAY-2015
APPROVED:	SORIN PINZARIU	15-MAY-2015

MATERIAL: N/A

FINISH: N/A

SPECIFICATION:

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED

Environment Canada / Environnement Canada
 Meteorological Service of Canada / Service Météorologique du Canada

TITLE:
DOUBLE-RING SHIELD BASE JIG TUBE

DRAWING NUMBER:	GND-DRJ-A02	REVISION:	A2
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BOM OF HDPE SNOW DEPTH TARGET

DESCRIPTION	MATERIAL	DRAWING	QUANTITY
PEA GRAVEL	PEA GRAVEL	N/A	8 FT ³ MIN
DOCK IN A BOX DW4GV DECKWAVE DECKING, GREY WITH HOLES	COPOLYMER POLYPROPYLENE	GND-SDT-B04	2
UPPER END BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B05	2
UPPER SIDE BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B06	2
UPPER INSIDE BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B07	2
UPPER MIDDLE BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B08	2
LOWER END BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B09	2
LOWER SIDE BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B10	2
LOWER INSIDE BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B11	2
LOWER CENTER BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B12	2
CORNER BRACE	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B13	8
HANDLE COVER PLATE	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B14	2
HANDLE INSERT BLOCK	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B15	2
PAN HEAD SELF-TAPPING PLASTIC SCREW #10 1 3/4" LENGTH	316 STAINLESS STEEL	N/A	12
PAN HEAD SELF-TAPPING PLASTIC SCREW #10 3" LENGTH	316 STAINLESS STEEL	N/A	8
82 DEG FLAT HEAD SELF-TAPPING PLASTIC SCREW #8 X 1 1/2" LENGTH	316 STAINLESS STEEL	N/A	106
82 DEG FLAT HEAD SELF-TAPPING PLASTIC SCREW #8 5/8" LENGTH	316 STAINLESS STEEL	N/A	8
FLAT WASHER #10 SAE	316 STAINLESS STEEL	N/A	12
LANDSCAPE FABRIC, 4' ROLL, 20' LENGTH	LANDSCAPE FABRIC, 4' ROLL	N/A	1
STAPLES	STAINLESS STEEL	N/A	10

REVISION HISTORY:			
REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	18/FEB/15	J.H.

NOTES:

DO NOT SCALE

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TOLERANCES UNLESS OTHERWISE SPECIFIED
 LINEAR: ±0.030 "
 ANGULAR: ±1.0°

DESIGN: **JEFFERY HOOVER** 18-FEB-2015

APPROVED: **SORIN PINZARIU** 18-FEB-2015

MATERIAL: N/A

FINISH: N/A

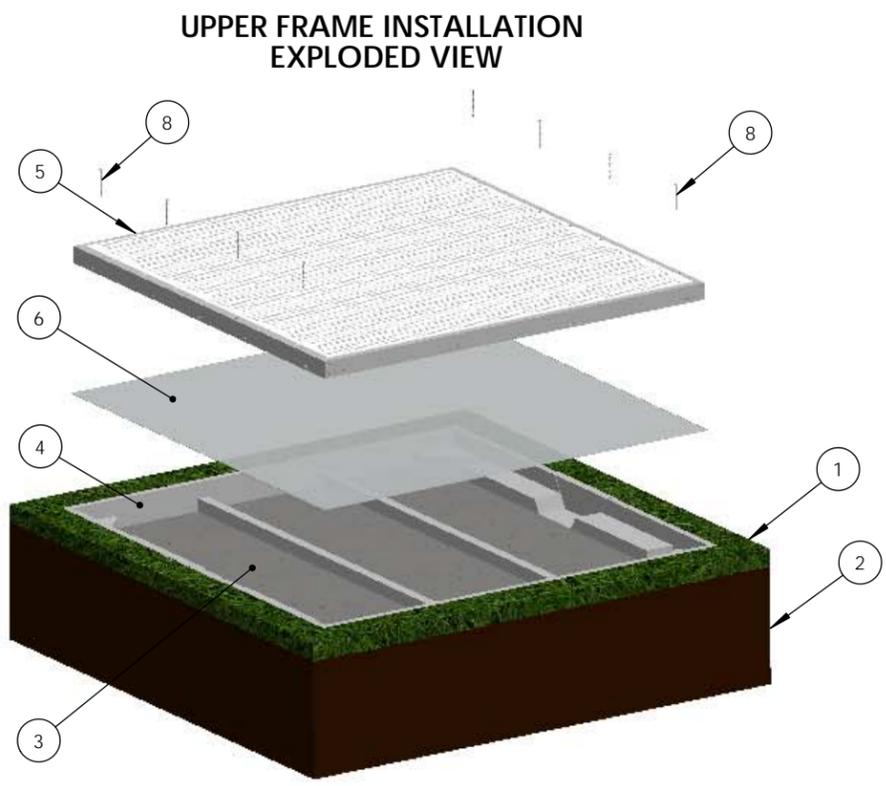
SPECIFICATION:

 **ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED**

 **Environment Canada** **Environnement Canada**
 Meteorological Service of Canada
 Service Météorologique du Canada

TITLE:
SNOW DEPTH TARGET WITH HDPE FRAME

DRAWING NUMBER: **GND-SDT-B00** REVISION: **01**



BILL OF MATERIALS

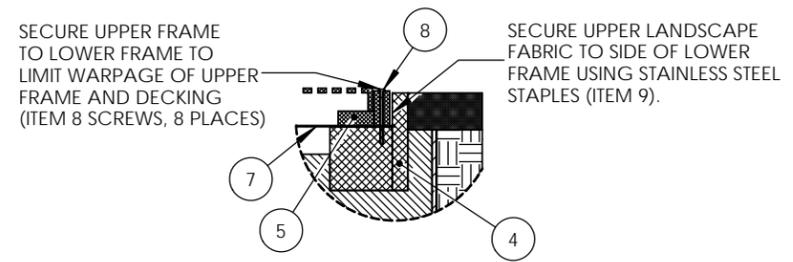
ITEM	DESCRIPTION	DRAWING	QUANTITY
1	GRASS	N/A	N/A
2	EARTH	N/A	N/A
3	PEA GRAVEL	N/A	8 FT ³ MIN
4	LOWER LANDSCAPE FABRIC, 4' ROLL	N/A	1
5	UPPER LANDSCAPE FABRIC, 4' ROLL	N/A	1
6	PAN HEAD SELF-TAPPING PLASTIC SCREW #10 3" LENGTH	N/A	8
7	STAPLES STAINLESS STEEL (UPPER LANDSCAPE FABRIC)	N/A	10
8	UPPER FRAME ASSEMBLY	GND-SDT-B02	1
9	LOWER FRAME ASSEMBLY	GND-SDT-B03	1
10			1

REVISION HISTORY:

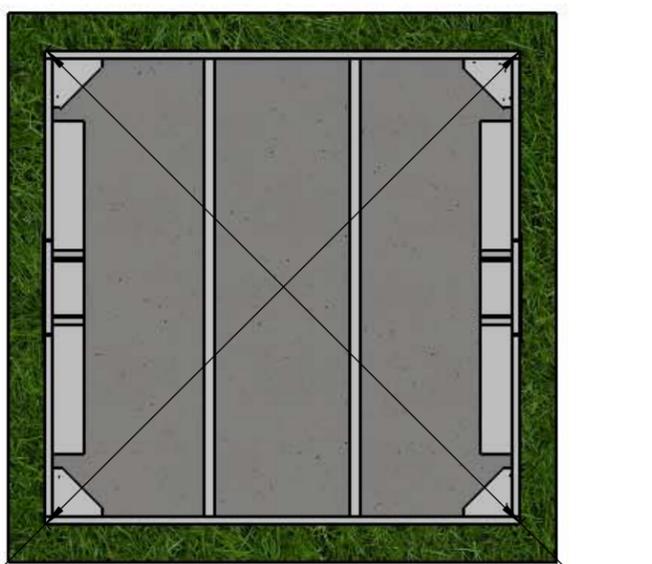
REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	18/FEB/15	J.H.

- NOTES:**
- CHECK FRAME IS SQUARE WITHIN 1/4" AND ENSURE UPPER FRAME ASSEMBLY WILL INSTALL INSIDE LOWER FRAME ASSEMBLY.
 - PREPARE SOIL FOR SNOW DEPTH TARGET. REMOVE SOIL MIN 8" BELOW GRADE PER REGIONAL STANDARDS. COVER BOTTOM OF HOLE WITH LANDSCAPE FABRIC. FILL WITH MIN 2" PEA GRAVEL AS PER SECTION A-A GROUND INSTALLATION.
 - ALIGN AND LEVEL LOWER FRAME ASSEMBLY (ITEM 6) SO THAT IT IS FLUSH WITH HIGHEST CORNER OF GRADE AND CENTERED BELOW SNOW DEPTH SENSOR. ADD 2" PEA GRAVEL INSIDE FRAME PER SECTION A-A.
 - ADD LANDSCAPE FABRIC ACROSS LOWER ASSEMBLY FRAME (ITEM 6) TO CATCH DEBRIS THAT FALLS THROUGH DECKING HOLES. ENSURE FABRIC LENGTH IS SUFFICIENT TO TOUCH PEA GRAVEL IN BETWEEN LOWER FRAME ASSEMBLY BEAMS. SEE SECTION A-A FOR FURTHER DETAILS.
 - INSTALL UPPER FRAME ASSEMBLY IN LOWER FRAME ASSEMBLY. THE UPPER MIDDLE BEAM (GND-SDT-A02 ITEM 5) IS PARALLEL TO THE LOWER CENTER BEAM (GND-SDT-A03 ITEM 4).
 - FIX THE UPPER FRAME (ITEM 5) TO THE LOWER FRAME (ITEM 4) USING ITEM 8 SCREWS.
 - TO REMOVE THE UPPER FRAME THE HANDLE INSERT BLOCKS (GND-SDT-A03 ITEM 7) CAN BE REMOVED TO PROVIDE ACCESS TO LIFT OUT THE UPPER FRAME ASSEMBLY.

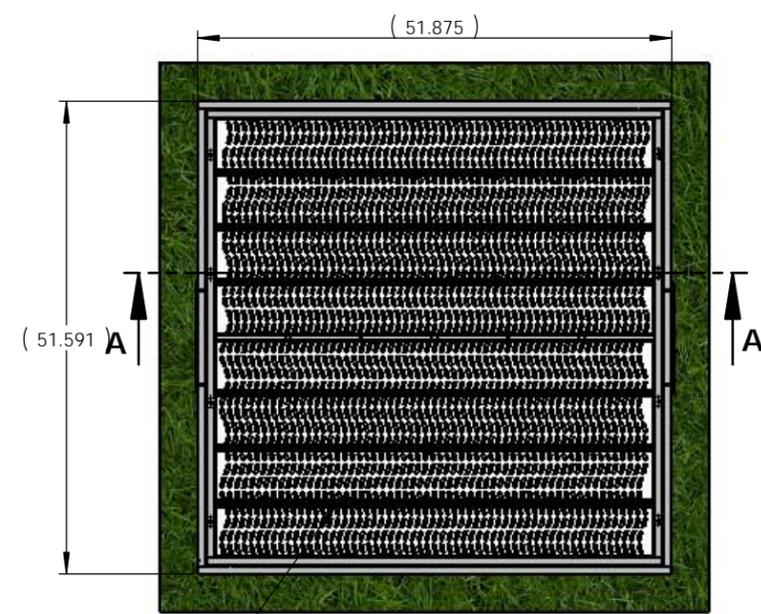
**DETAIL A
UPPER FRAME AND LANDSCAPE FABRIC DETAIL**



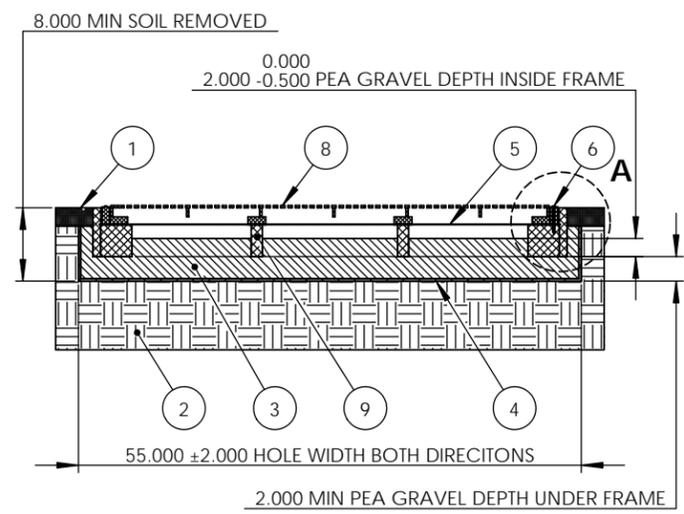
**LOWER FRAME INSTALLATION
TOP VIEW**



**FINAL INSTALLATION
TOP VIEW**



**SECTION A-A
GROUND INSTALLATION**



DO NOT SCALE

PROPRIETARY AND CONFIDENTIAL
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TOLERANCES UNLESS OTHERWISE SPECIFIED
LINEAR: ±0.030 "
ANGULAR: ±1.0°

DESIGN: **JEFFERY HOOVER** 18-FEB-2015

APPROVED: **SORIN PINZARIU** 18-FEB-2015

MATERIAL: N/A

FINISH: N/A

SPECIFICATION:

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED

Environment Canada / Environnement Canada

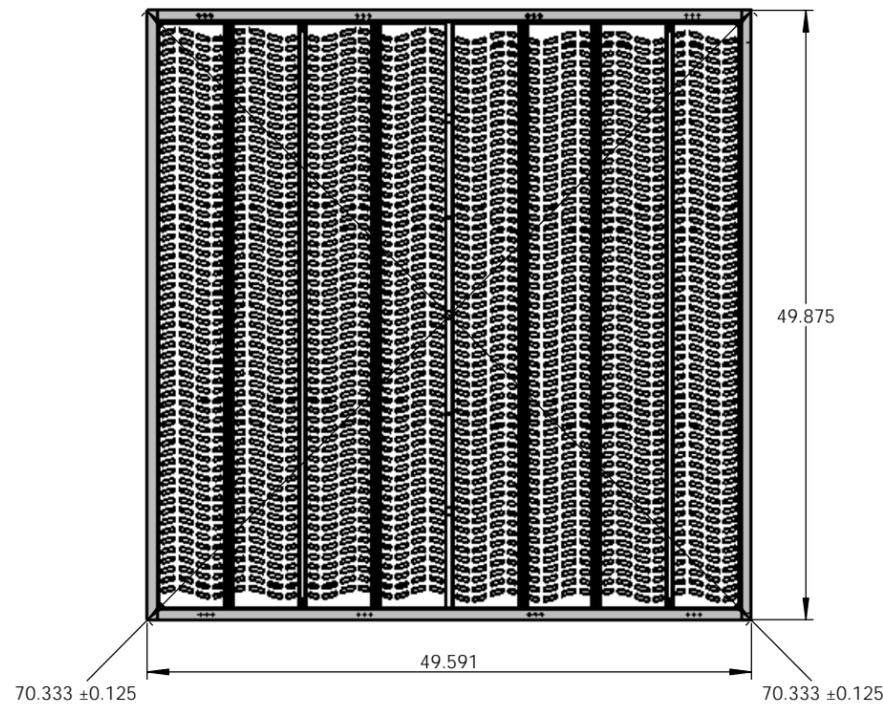
Meteorological Service of Canada / Service Météorologique du Canada

TITLE:
**SNOW DEPTH TARGET
FRAME INSTALLATION**

DRAWING NUMBER: **GND-SDT-B01** REVISION: **01**

UPPER FRAME ASSEMBLY (ITEM 5) SHOULD BE INSTALLED ON LOWER FRAME ASSEMBLY WITH DECKING CHANNELS PERPENDICULAR TO LOWER CENTER BEAM (GND-SDT-A03 ITEM 4)

**ASSEMBLED
TOP VIEW**



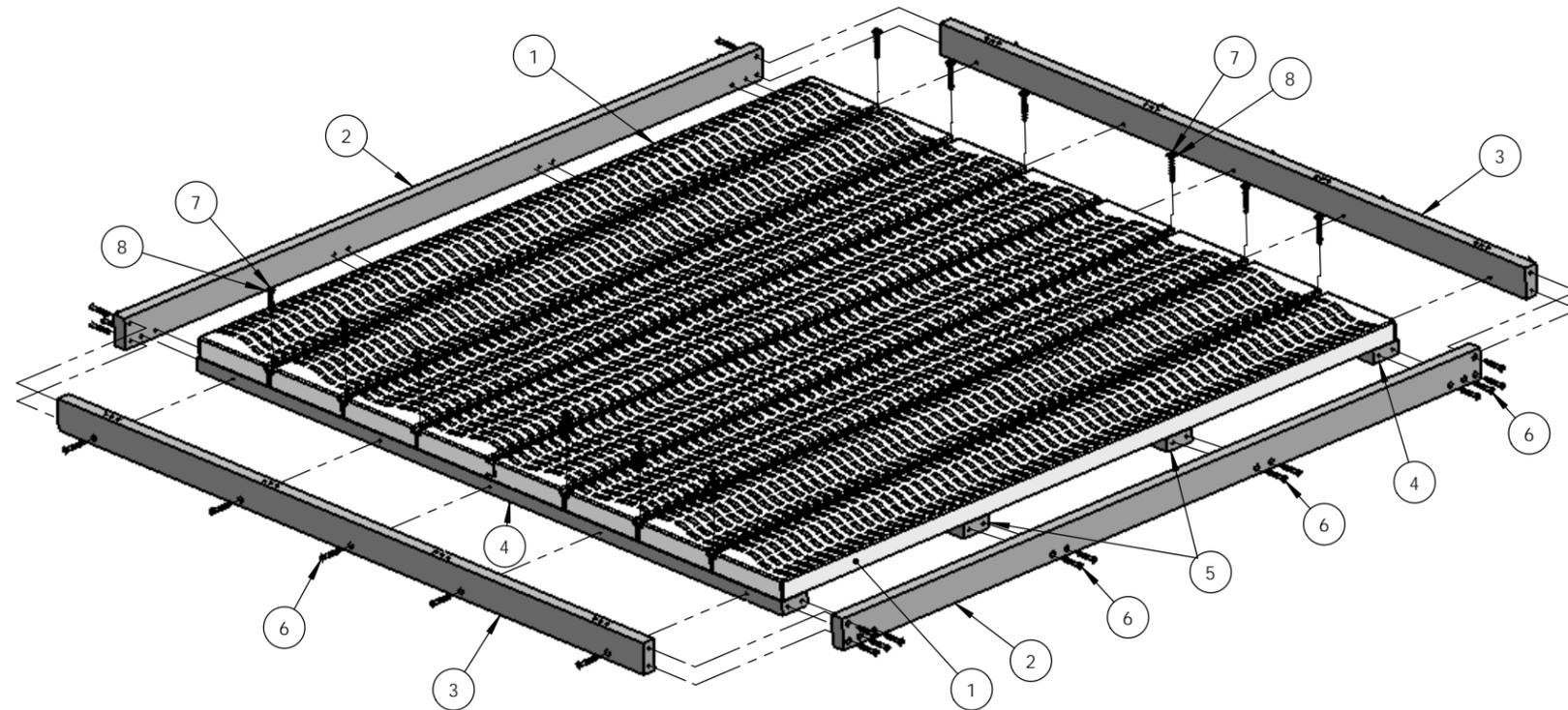
BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL	DRAWING	QUANTITY
1	DOCK IN A BOX DW4GV DECKWAVE DECKING, GREY WITH HOLES	COPOLYMER POLYPROPYLENE	GND-SDT-B04	2
2	UPPER END BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B05	2
3	UPPER SIDE BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B06	2
4	UPPER INSIDE BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B07	2
5	UPPER MIDDLE BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B08	2
6	82 DEG FLAT HEAD SELF-TAPPING PLASTIC SCREW #8 X 1 1/2" LENGTH	316 STAINLESS STEEL	N/A	34
7	PAN HEAD SELF-TAPPING PLASTIC SCREW #10 1 3/4" LENGTH	316 STAINLESS STEEL	N/A	12
8	FLAT WASHER #10 SAE	316 STAINLESS STEEL	N/A	12

REVISION HISTORY:			
REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	18/FEB/15	J.H.

NOTES:
 1. ASSEMBLE FRAME USING USING ITEM 6 SCREWS. DO NOT OVERTORQUE SCREWS.
 2. CHECK FRAME IS SQUARE WITHIN 1/4" BY MEASURING CORNER TO CORNER DISTANCE AFTER ASSEMBLY.
 3. ASSEMBLE DECKING ON FRAME USING ITEM 7 SCREWS. DO NOT OVERTORQUE SCREWS.

**UPPER FRAME
EXPLODED VIEW**



DO NOT SCALE

PROPRIETARY AND CONFIDENTIAL
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TOLERANCES UNLESS OTHERWISE SPECIFIED
 LINEAR: ±0.030 "
 ANGULAR: ±1.0°

DESIGN: **JEFFERY HOOVER** 18-FEB-2015

APPROVED: **SORIN PINZARIU** 18-FEB-2015

MATERIAL: N/A

FINISH: N/A

SPECIFICATION:

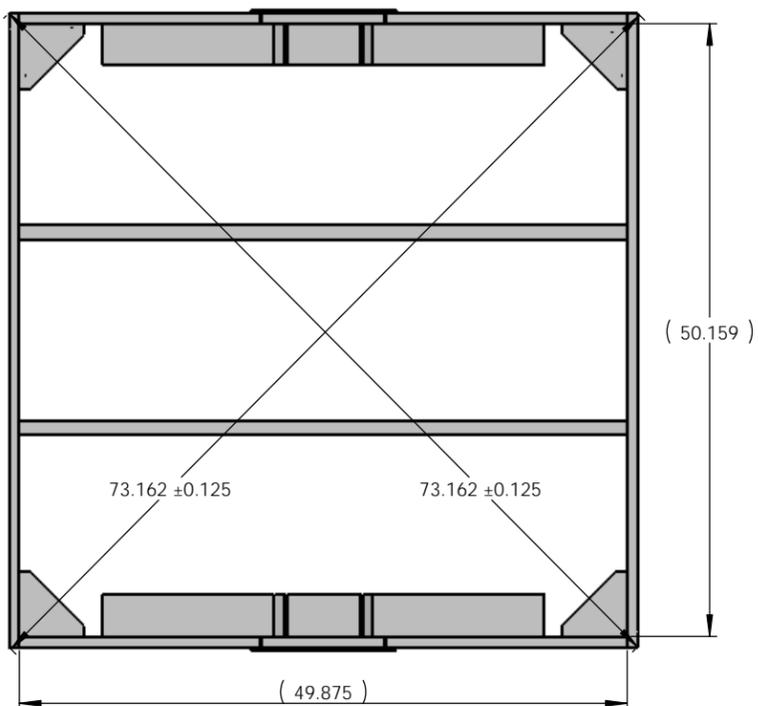
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED

Environment Canada / Environnement Canada
 Meteorological Service of Canada / Service Météorologique du Canada

TITLE: **UPPER FRAME ASSEMBLY**

DRAWING NUMBER: **GND-SDT-B02** REVISION: **01**

**ASSEMBLED
TOP VIEW**



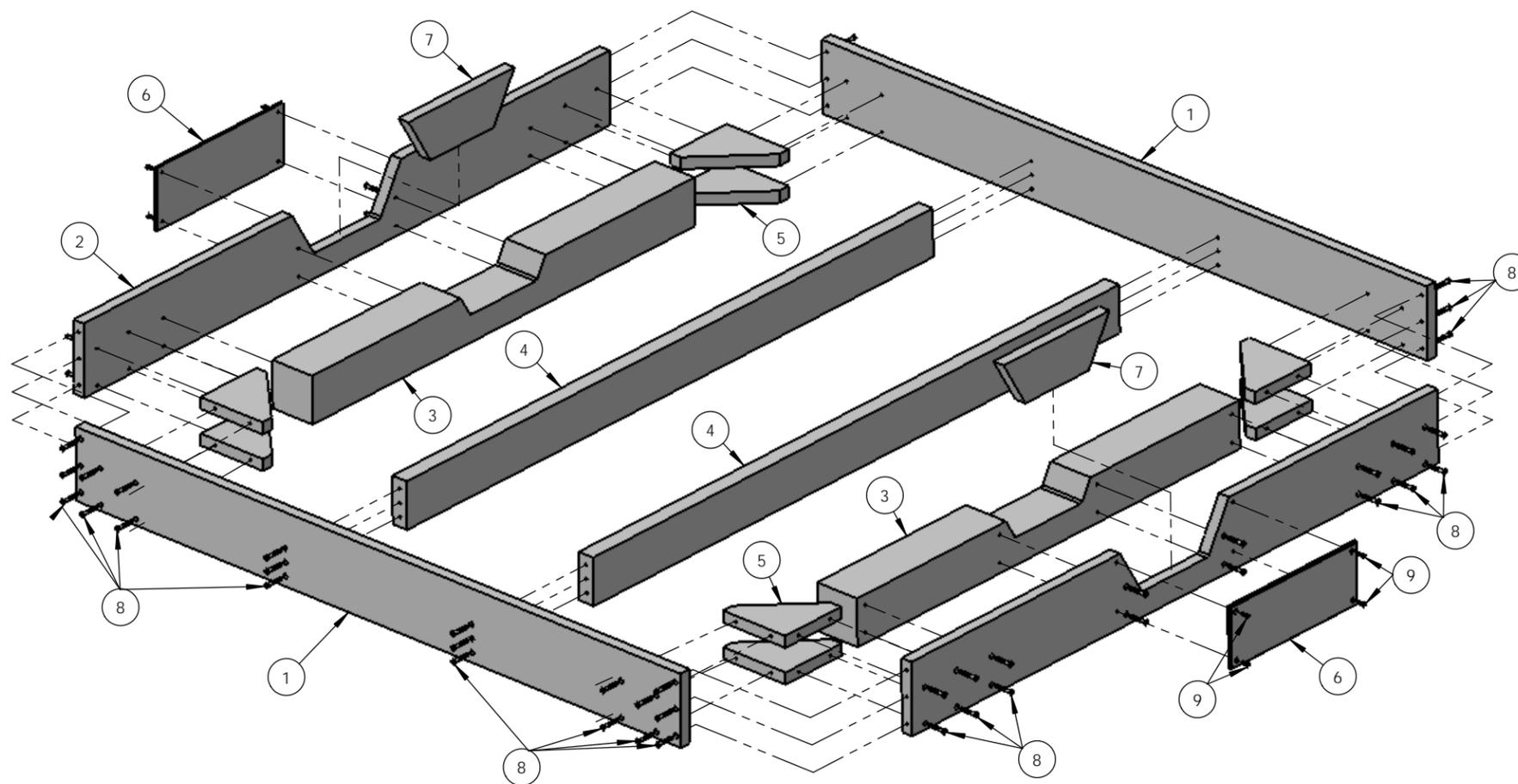
BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL	DRAWING	QUANTITY
1	LOWER END BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B09	2
2	LOWER SIDE BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B10	2
3	LOWER INSIDE BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B11	2
4	LOWER CENTER BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B12	2
5	CORNER BRACE	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B13	8
6	HANDLE COVER PLATE	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B14	2
7	HANDLE INSERT BLOCK	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B15	2
8	82 DEG FLAT HEAD SELF-TAPPING PLASTIC SCREW #8 X 1 1/2" LENGTH	316 STAINLESS STEEL	N/A	72
9	82 DEG FLAT HEAD SELF-TAPPING PLASTIC SCREW #8 5/8" LENGTH	316 STAINLESS STEEL	N/A	8

REVISION HISTORY:			
REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	18/FEB/15	J.H.

- NOTES:**
- ASSEMBLE FRAME PARTS (ITEMS 1 TO 5) USING ITEM 8 SCREWS. DO NOT OVERTORQUE SCREWS.
 - ASSEMBLE HANDLE COVER PLATE (ITEM 6) ON LOWER SIDE BEAM (ITEM 2) USING ITEM 9 SCREWS.
 - PLACE HANDLE INSERT BLOCK (ITEM 7) IN ITEM 2 LOWER SIDE BEAM SLOT.
 - CHECK FRAME IS SQUARE WITHIN 1/4" BY MEASURING CORNER TO CORNER DISTANCE AFTER INSTALLATION IN TARGET LOCATION.

**LOWER FRAME
EXPLODED VIEW**



DO NOT SCALE

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TOLERANCES UNLESS OTHERWISE SPECIFIED
LINEAR: ±0.030 "
ANGULAR: ±1.0°

DESIGN: **JEFFERY HOOVER** 18-FEB-2015

APPROVED: **SORIN PINZARIU** 18-FEB-2015

MATERIAL: N/A

FINISH: N/A

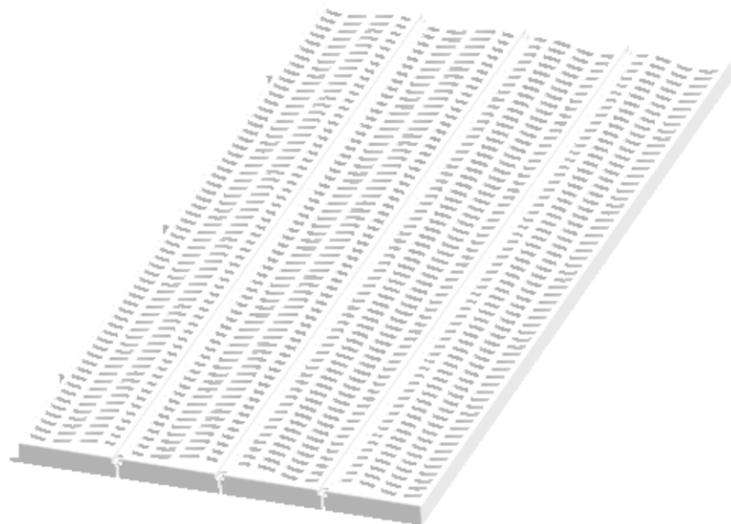
SPECIFICATION:

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED

Environment Canada / Environnement Canada
Meteorological Service of Canada / Service Météorologique du Canada

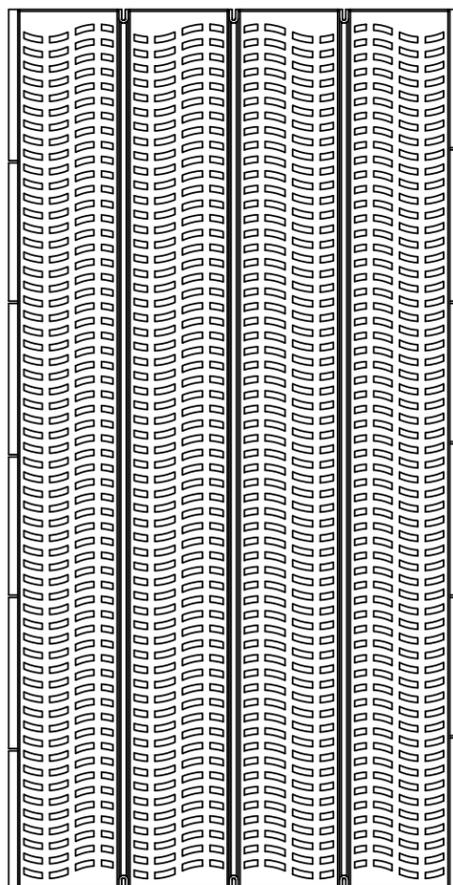
TITLE: **LOWER FRAME ASSEMBLY**

DRAWING NUMBER: **GND-SDT-B03** REVISION: **01**



DECKWAVE DECKING BEFORE EDGE CUT

TOP VIEW

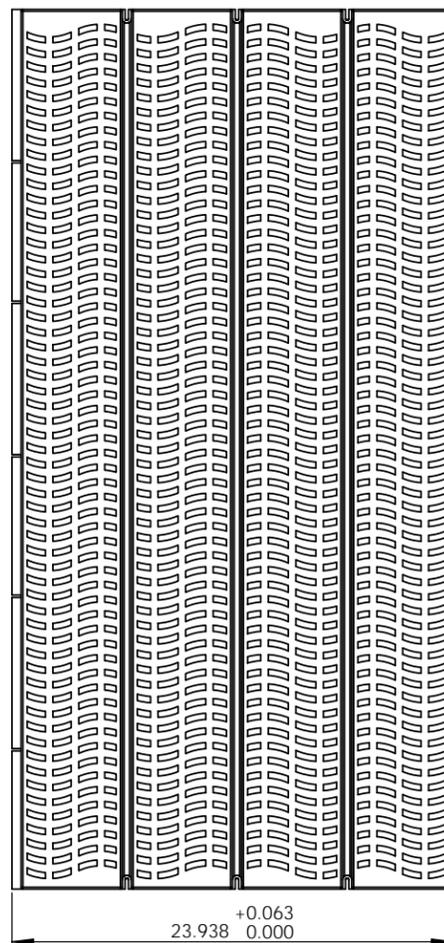


SIDE VIEW



DECKWAVE DECKING AFTER EDGE CUT

TOP VIEW



SIDE VIEW



CUT ALONG ONE SIDE OF DECKING TO REMOVE JOINING FEATURE. DO NOT CUT INTO DECKING SIDEWALL.

REVISION HISTORY:

REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	18/FEB/15	J.H.

NOTES:

1. DOCK IN A BOX DW4GV DECKWAVE DECKING GREY WITH HOLES.
2. CUT ALONG ONE SIDE OF DECKING TO REMOVE JOINING FEATURE. DO NOT CUT INTO DECKING SIDEWALL.
3. BOTH DECKING PANELS IN TARGET FRAME REQUIRE ONE SIDE OF DECKING TO BE CUT (SEE NOTE 2 FOR CUT DETAILS).

DO NOT SCALE

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TOLERANCES UNLESS OTHERWISE SPECIFIED

LINEAR: ± 0.030 "
ANGULAR: $\pm 1.0^\circ$

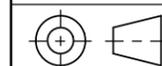
DESIGN: **JEFFERY HOOVER** 18-FEB-2015

APPROVED: **SORIN PINZARIU** 18-FEB-2015

MATERIAL: COPOLYMER
POLYPROPYLENE

FINISH: AS SUPPLIED

SPECIFICATION:



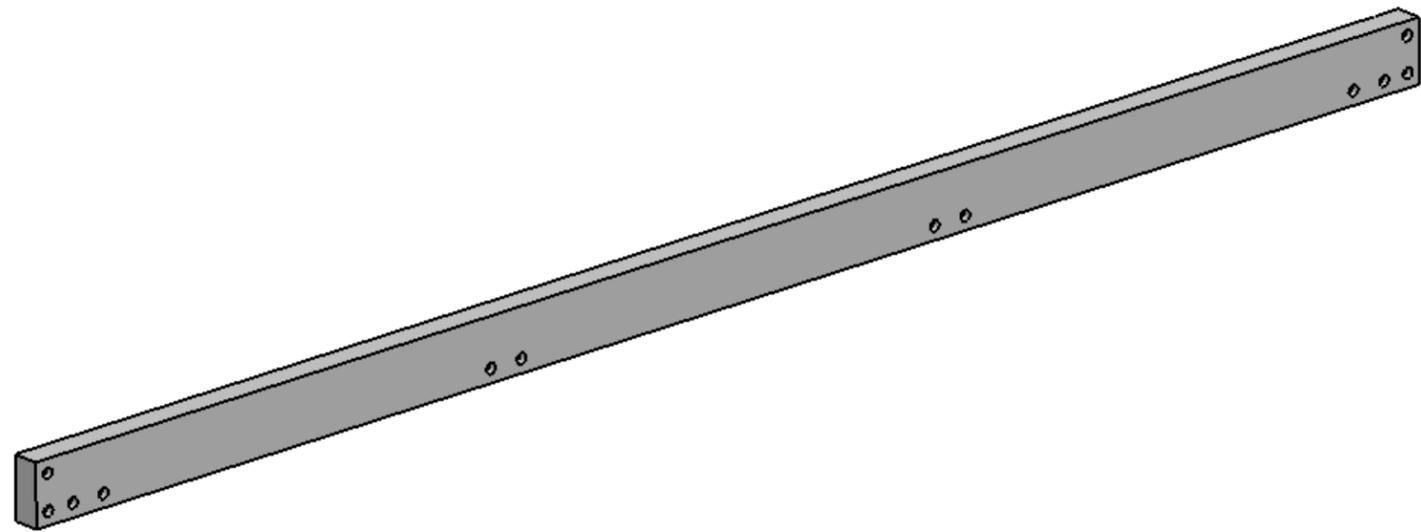
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED



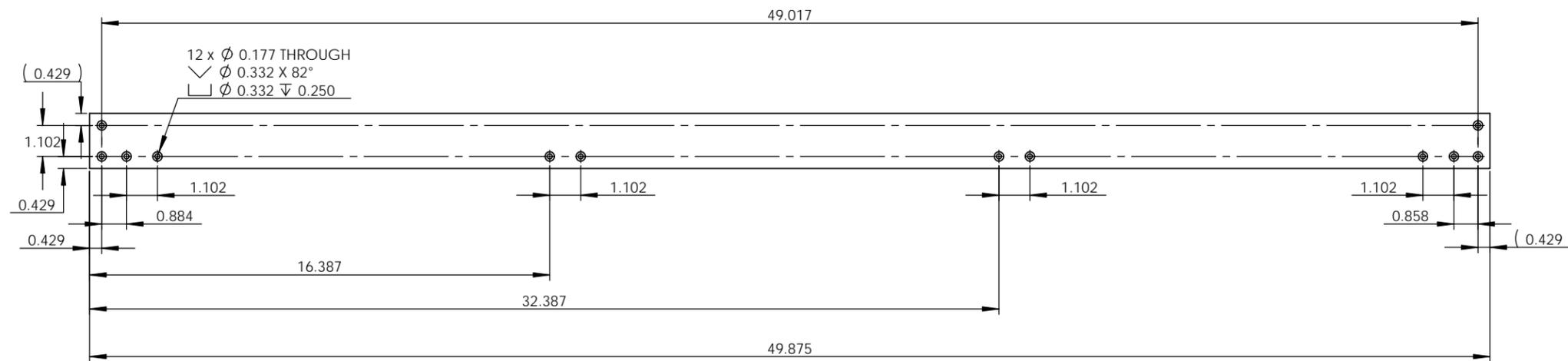
Meteorological Service of Canada
Service Météorologique du Canada

TITLE: **DOCK IN A BOX DECKWAVE DECKING**

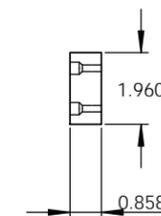
DRAWING NUMBER: **GND-SDT-B04** REVISION: **01**



FRONT VIEW



SIDE VIEW



REVISION HISTORY:

REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	18/FEB/15	J.H.

NOTES:

1. MATERIAL: C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.
2. LUMBER WARPAGE MUST BE LESS THAN 0.125" OVER LENGTH.
3. LUMBER CUT ENDS AND PROFILE MUST BE SQUARE WITHIN 1°.
4. BREAK ALL CUT EDGES WITH A 0.062" X 45° CHAMFER ALL AROUND.

DO NOT SCALE

PROPRIETARY AND CONFIDENTIAL
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TOLERANCES UNLESS OTHERWISE SPECIFIED
 LINEAR: ± 0.030 "
 ANGULAR: $\pm 1.0^\circ$

DESIGN: **JEFFERY HOOVER** 18-FEB-2015

APPROVED: **SORIN PINZARIU** 18-FEB-2015

MATERIAL: SEE NOTES

FINISH: AS SUPPLIED

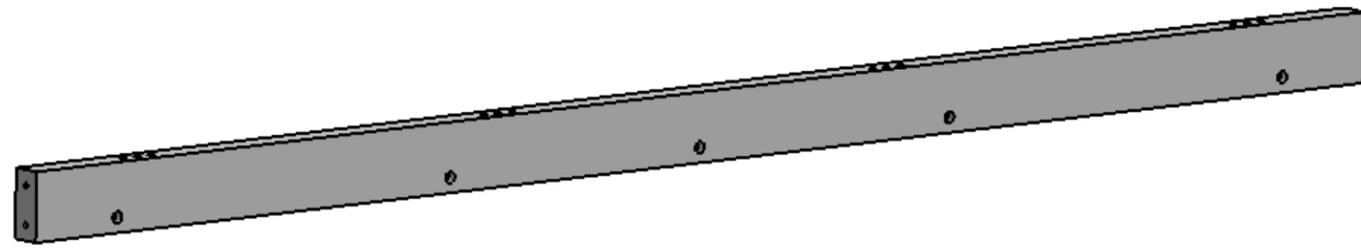
SPECIFICATION:

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED

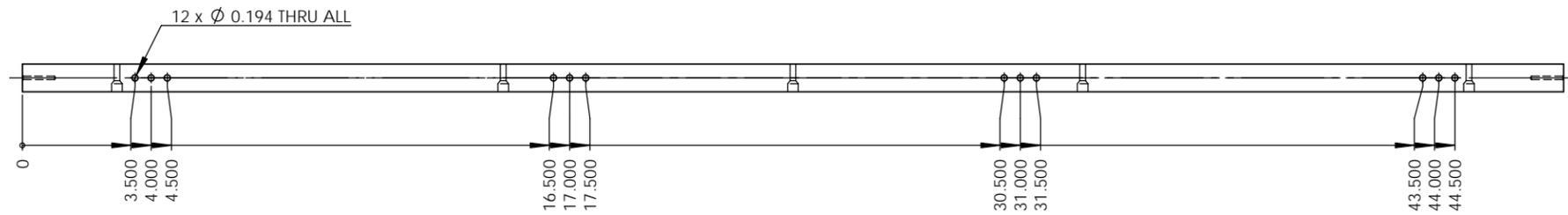
Environment Canada / Environnement Canada
 Meteorological Service of Canada / Service Météorologique du Canada

TITLE: **UPPER END BEAM**

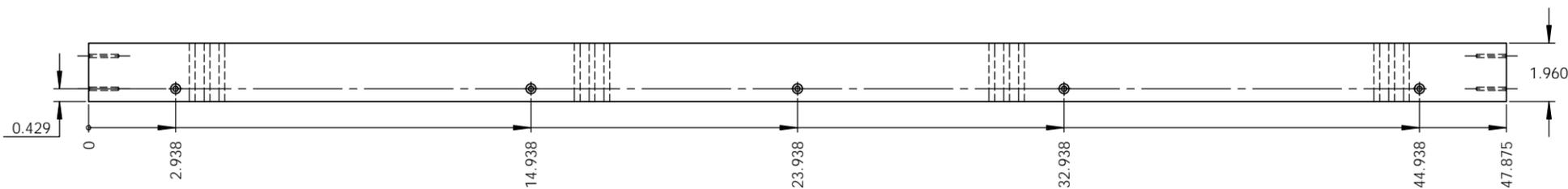
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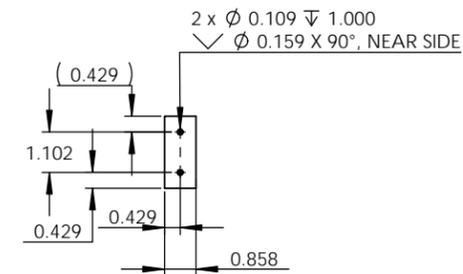
TOP VIEW



FRONT VIEW



SIDE VIEW
(BOTH ENDS)



REVISION HISTORY:

REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	18/FEB/15	J.H.

NOTES:

1. MATERIAL: C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.
2. LUMBER WARPAGE MUST BE LESS THAN 0.125" OVER LENGTH.
3. LUMBER CUT ENDS AND PROFILE MUST BE SQUARE WITHIN 1°.
4. BREAK ALL CUT EDGES WITH A 0.062" X 45° CHAMFER ALL AROUND.

DO NOT SCALE

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TOLERANCES UNLESS OTHERWISE SPECIFIED
LINEAR: ±0.030 "
ANGULAR: ±1.0°

DESIGN: JEFFERY HOOVER 18-FEB-2015

APPROVED: SORIN PINZARIU 18-FEB-2015

MATERIAL: SEE NOTES

FINISH: AS SUPPLIED

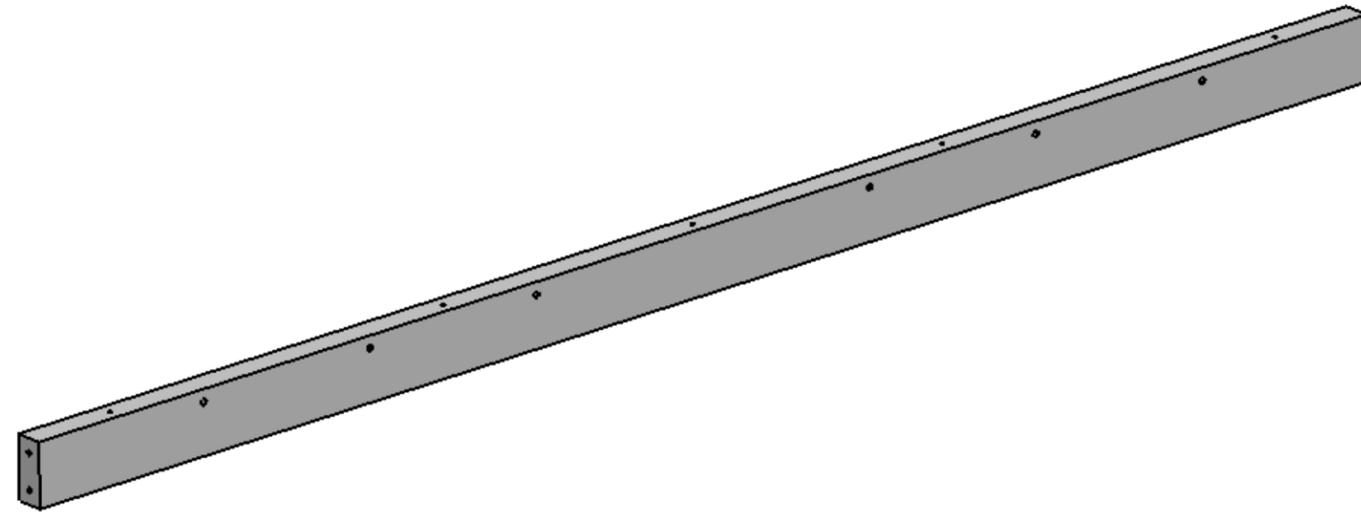
SPECIFICATION:

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED

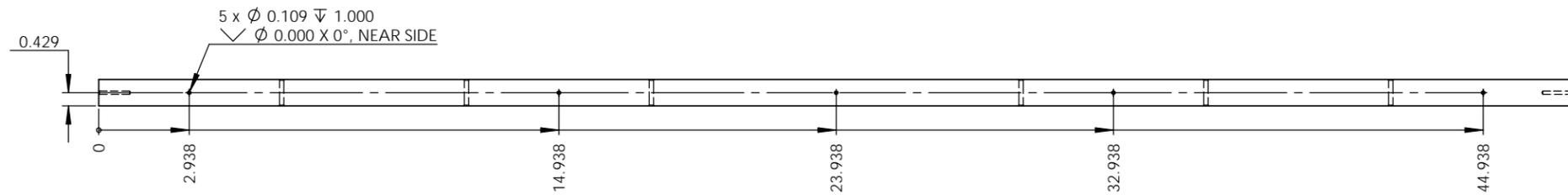
Environment Canada / Environnement Canada
Meteorological Service of Canada / Service Météorologique du Canada

TITLE: UPPER SIDE BEAM

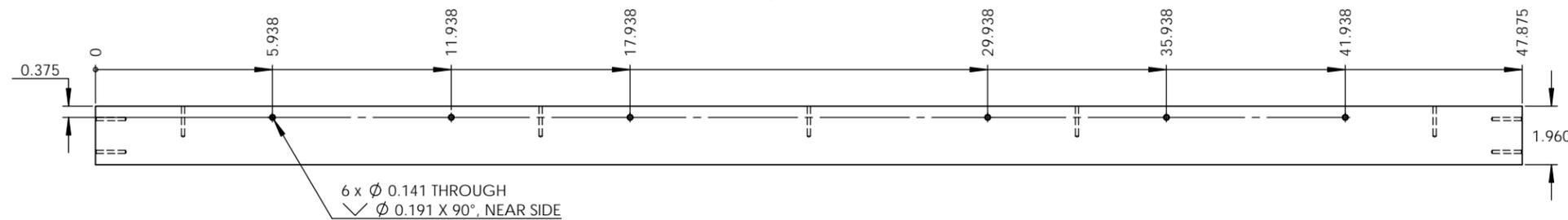
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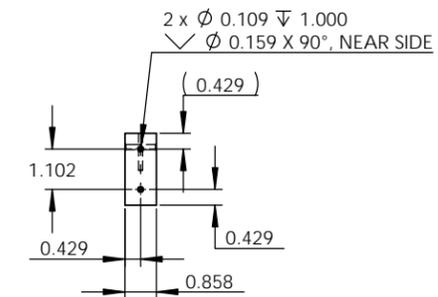
TOP VIEW



FRONT VIEW



SIDE VIEW (BOTH ENDS)



REVISION HISTORY:

REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	18/FEB/15	J.H.

NOTES:

1. MATERIAL: C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.
2. LUMBER WARPAGE MUST BE LESS THAN 0.125" OVER LENGTH.
3. LUMBER CUT ENDS AND PROFILE MUST BE SQUARE WITHIN 1°.
4. BREAK ALL CUT EDGES WITH A 0.062" X 45° CHAMFER ALL AROUND.

DO NOT SCALE

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LINEAR: ±0.030 "
ANGULAR: ±1.0°

DESIGN: JEFFERY HOOVER 18-FEB-2015

APPROVED: SORIN PINZARIU 18-FEB-2015

MATERIAL: SEE NOTES

FINISH: AS SUPPLIED

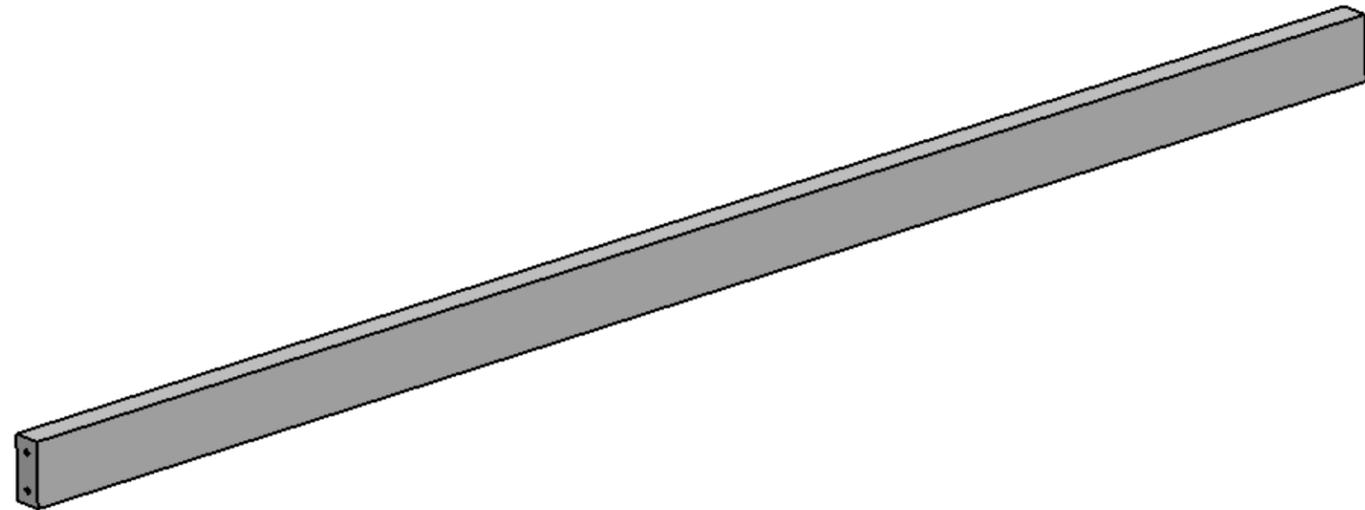
SPECIFICATION:

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED

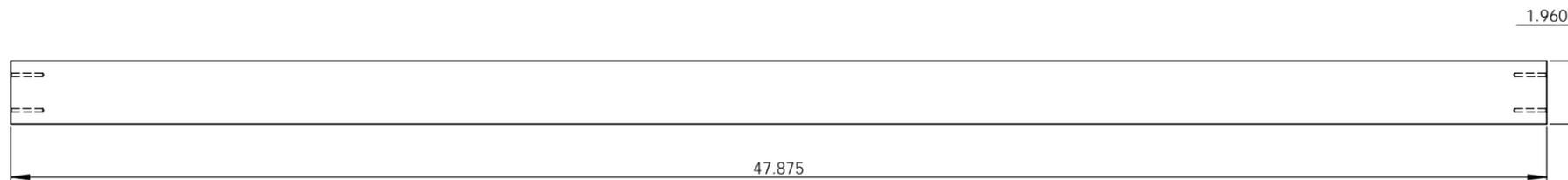
Environment Canada / Environnement Canada
Meteorological Service of Canada / Service Météorologique du Canada

TITLE: UPPER INSIDE BEAM

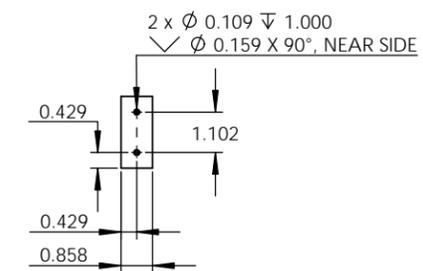
DRAWING NUMBER: GND-SDT-B07 REVISION: 01



FRONT VIEW



SIDE VIEW
(BOTH ENDS)



REVISION HISTORY:

REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	18/FEB/15	J.H.

NOTES:

1. MATERIAL: C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.
2. LUMBER WARPAGE MUST BE LESS THAN 0.125" OVER LENGTH.
3. LUMBER CUT ENDS AND PROFILE MUST BE SQUARE WITHIN 1°.
4. BREAK ALL CUT EDGES WITH A 0.062" X 45° CHAMFER ALL AROUND.

DO NOT SCALE

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TOLERANCES UNLESS OTHERWISE SPECIFIED

LINEAR: ±0.030 "
ANGULAR: ±1.0°

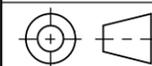
DESIGN: **JEFFERY HOOVER** 18-FEB-2015

APPROVED: **SORIN PINZARIU** 18-FEB-2015

MATERIAL: SEE NOTES

FINISH: AS SUPPLIED

SPECIFICATION:



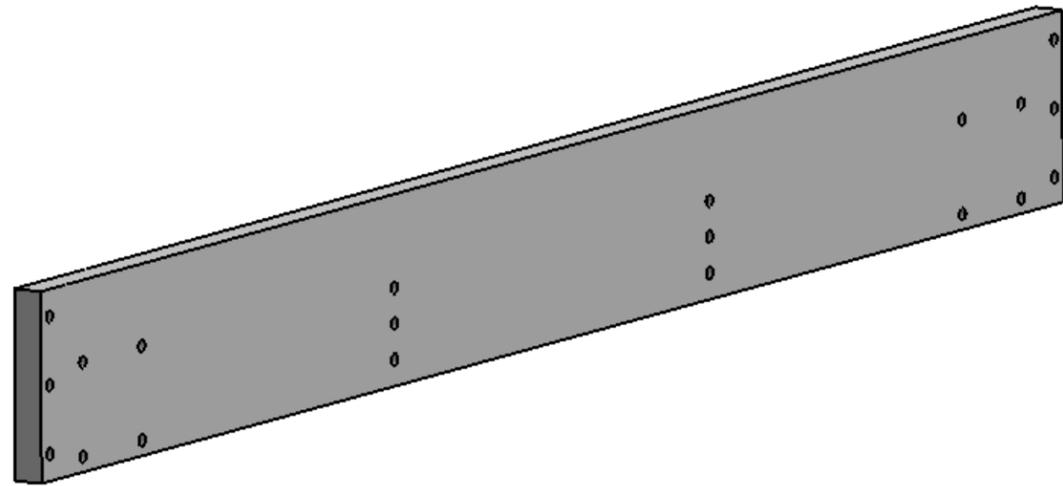
ALL DIMENSIONS IN INCHES
UNLESS OTHERWISE
INDICATED



Meteorological Service of Canada
Service Météorologique du Canada

TITLE:
UPPER MIDDLE BEAM

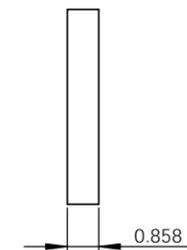
DRAWING NUMBER: **GND-SDT-B08** REVISION: **01**



FRONT VIEW



SIDE VIEW



REVISION HISTORY:

REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	18/FEB/15	J.H.

NOTES:

1. MATERIAL: C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.
2. LUMBER WARPAGE MUST BE LESS THAN 0.125" OVER LENGTH.
3. LUMBER CUT ENDS AND PROFILE MUST BE SQUARE WITHIN 1°.
4. BREAK ALL CUT EDGES WITH A 0.062" X 45° CHAMFER ALL AROUND.

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TOLERANCES UNLESS OTHERWISE SPECIFIED
LINEAR: ± 0.030 "
ANGULAR: $\pm 1.0^\circ$

DESIGN: JEFFERY HOOVER 18-FEB-2015

APPROVED: SORIN PINZARIU 18-FEB-2015

MATERIAL: SEE NOTES

FINISH: AS SUPPLIED

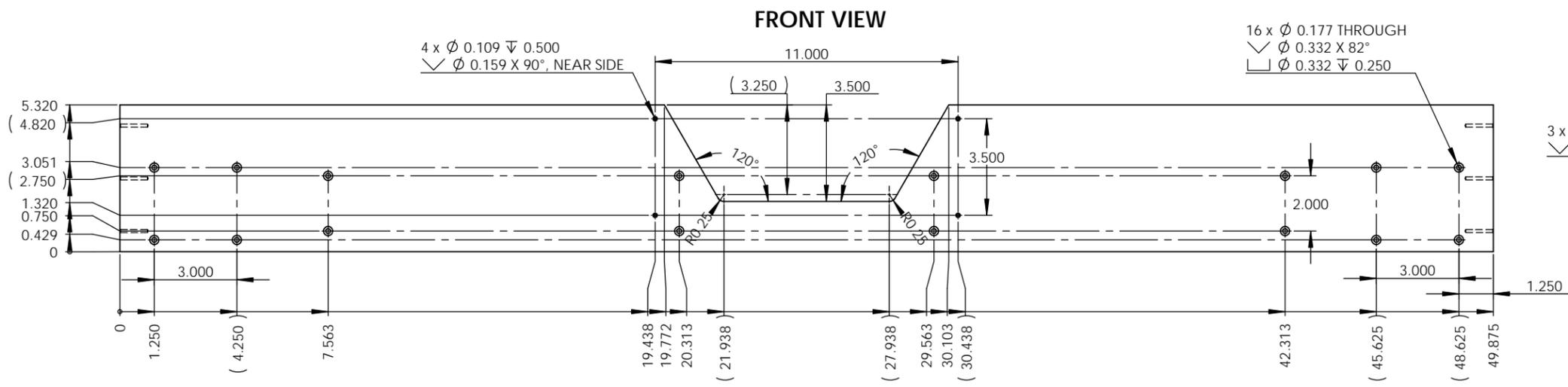
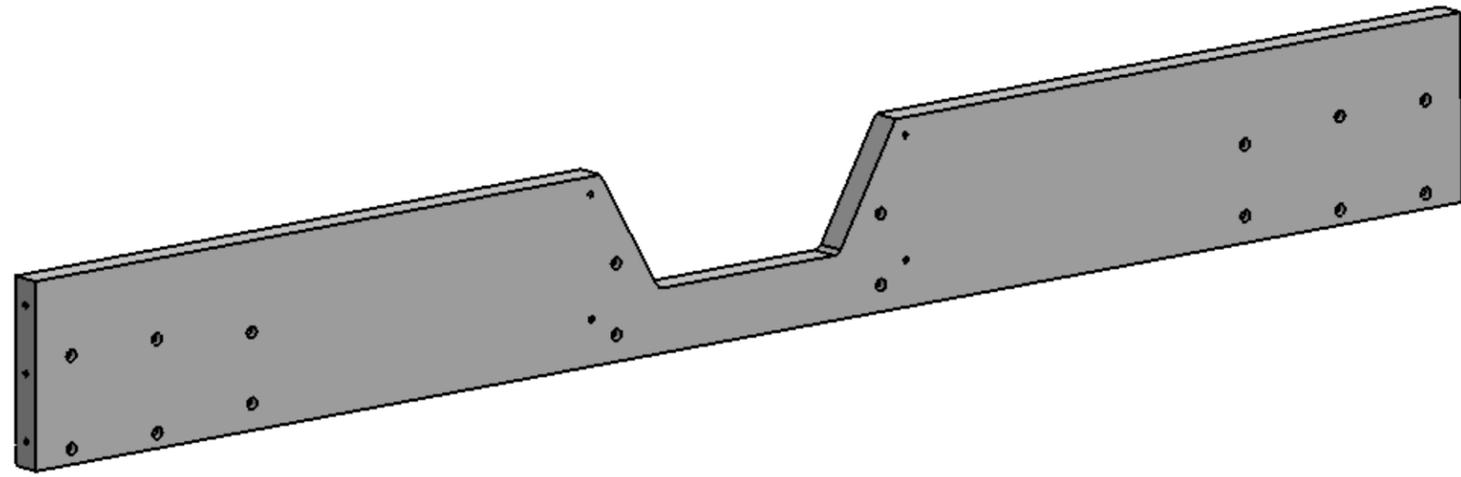
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ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED

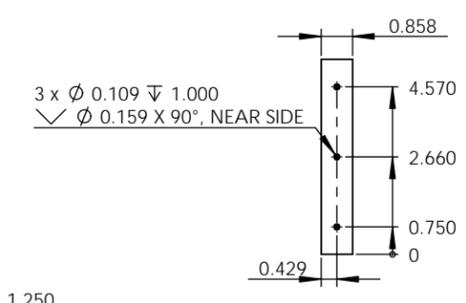
Environment Canada / Environnement Canada
Meteorological Service of Canada / Service Météorologique du Canada

TITLE: LOWER END BEAM

DRAWING NUMBER: GND-SDT-B09 REVISION: 01



SIDE VIEW (BOTH ENDS)



REVISION HISTORY:			
REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	18/FEB/15	J.H.

- NOTES:**
1. MATERIAL: C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.
 2. LUMBER WARPAGE MUST BE LESS THAN 0.125" OVER LENGTH.
 3. LUMBER CUT ENDS AND PROFILE MUST BE SQUARE WITHIN 1°.
 4. BREAK ALL CUT EDGES WITH A 0.062" X 45° CHAMFER ALL AROUND.

DO NOT SCALE

PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF OSE. ANY REPRODUCTION OR MODIFICATION, IN PART OR AS A WHOLE, WITHOUT THE WRITTEN PERMISSION OF OSE IS STRICTLY PROHIBITED.

TOLERANCES UNLESS OTHERWISE SPECIFIED
 LINEAR: ±0.030 "
 ANGULAR: ±1.0°

DESIGN: **JEFFERY HOOVER** 18-FEB-2015

APPROVED: **SORIN PINZARIU** 18-FEB-2015

MATERIAL: **SEE NOTES**

FINISH: **AS SUPPLIED**

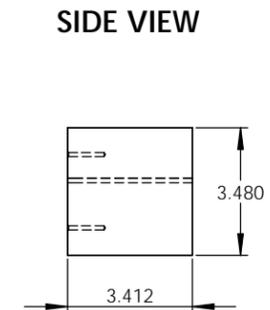
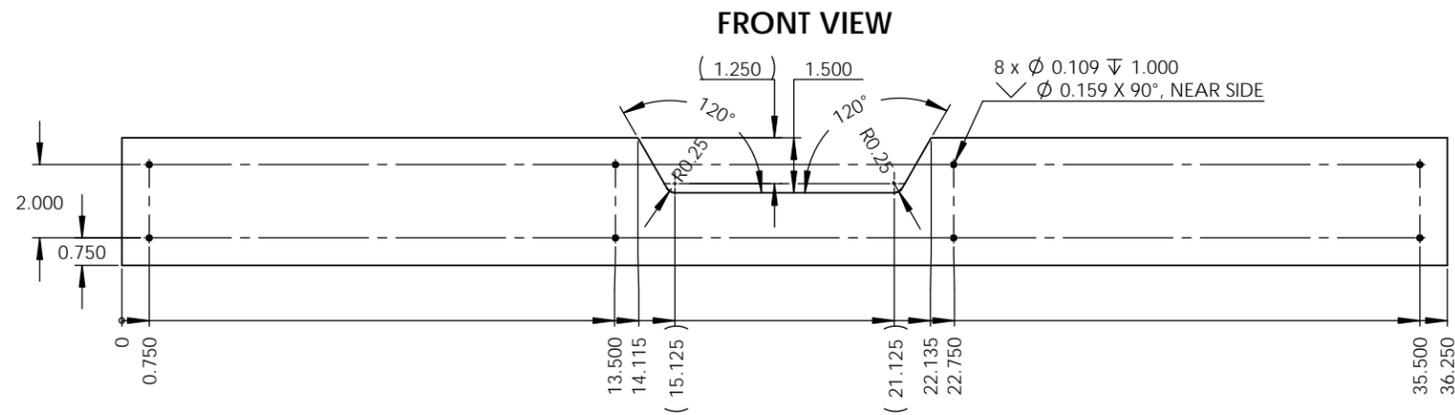
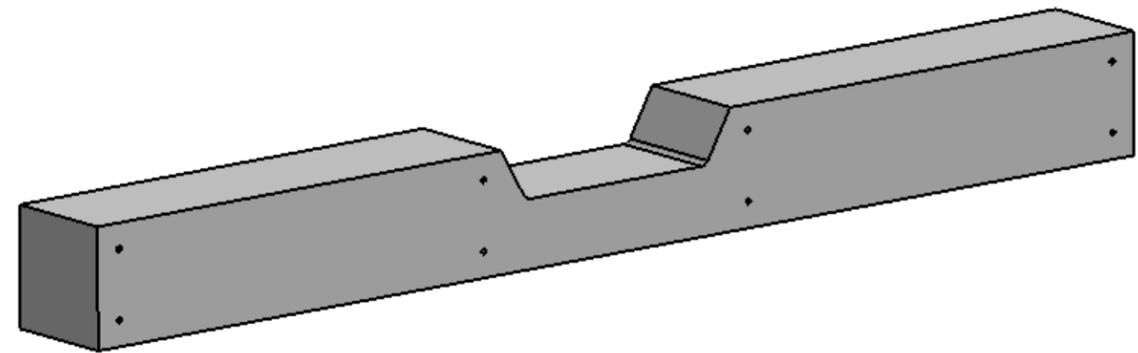
SPECIFICATION:

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED

Environment Canada / Environnement Canada
 Meteorological Service of Canada / Service Météorologique du Canada

TITLE:
LOWER SIDE BEAM

DRAWING NUMBER: **GND-SDT-B10** REVISION: **01**



REVISION HISTORY:

REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	18/FEB/15	J.H.

NOTES:

1. MATERIAL: C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.
2. LUMBER WARPAGE MUST BE LESS THAN 0.125" OVER LENGTH.
3. LUMBER CUT ENDS AND PROFILE MUST BE SQUARE WITHIN 1°.
4. BREAK ALL CUT EDGES WITH A 0.062" X 45° CHAMFER ALL AROUND.

DO NOT SCALE

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TOLERANCES UNLESS OTHERWISE SPECIFIED
 LINEAR: ±0.030 "
 ANGULAR: ±1.0°

DESIGN: **JEFFERY HOOVER** 18-FEB-2015

APPROVED: **SORIN PINZARIU** 18-FEB-2015

MATERIAL: **SEE NOTES**

FINISH: **AS SUPPLIED**

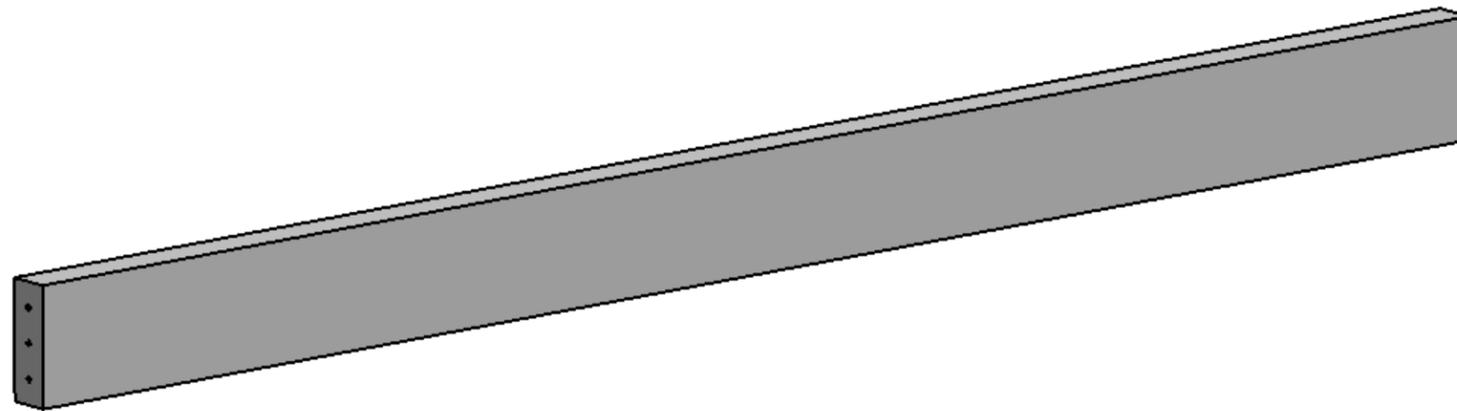
SPECIFICATION:

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED

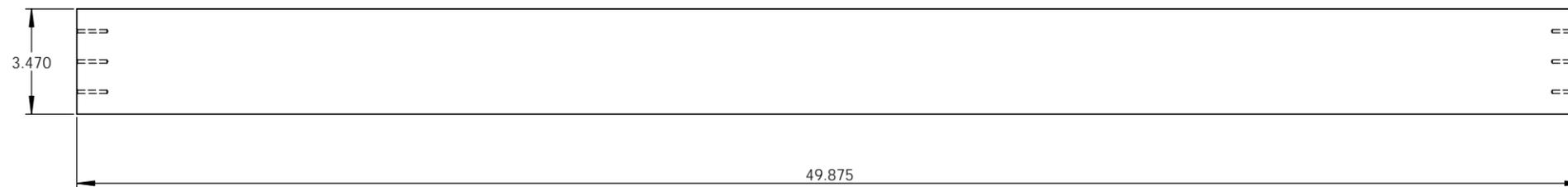
Environment Canada / Environnement Canada
 Meteorological Service of Canada / Service Météorologique du Canada

TITLE:
LOWER INSIDE BEAM

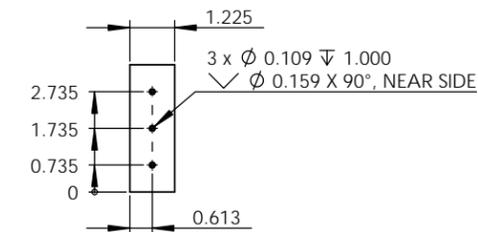
DRAWING NUMBER: **GND-SDT-B11** REVISION: **01**



FRONT VIEW



SIDE VIEW
(BOTH ENDS)



REVISION HISTORY:

REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	18/FEB/15	J.H.

NOTES:

1. MATERIAL: C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.
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DO NOT SCALE

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TOLERANCES UNLESS OTHERWISE SPECIFIED
LINEAR: ±0.030 "
ANGULAR: ±1.0°

DESIGN: **JEFFERY HOOVER** 18-FEB-2015

APPROVED: **SORIN PINZARIU** 18-FEB-2015

MATERIAL: SEE NOTES

FINISH: AS SUPPLIED

SPECIFICATION:

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED

Environment Canada / Environnement Canada
Meteorological Service of Canada / Service Météorologique du Canada

TITLE:
LOWER CENTER BEAM

DRAWING NUMBER: **GND-SDT-B12** REVISION: **01**

REVISION HISTORY:

REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	18/FEB/15	J.H.

NOTES:

1. MATERIAL: C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.
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TOLERANCES UNLESS OTHERWISE SPECIFIED
 LINEAR: ±0.030 "
 ANGULAR: ±1.0°

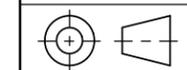
DESIGN: **JEFFERY HOOVER** 18-FEB-2015

APPROVED: **SORIN PINZARIU** 18-FEB-2015

MATERIAL: **SEE NOTES**

FINISH: **AS SUPPLIED**

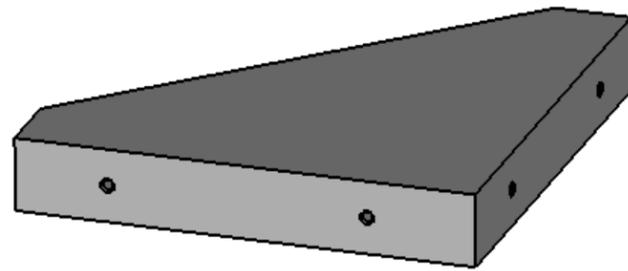
SPECIFICATION:

 **ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED**

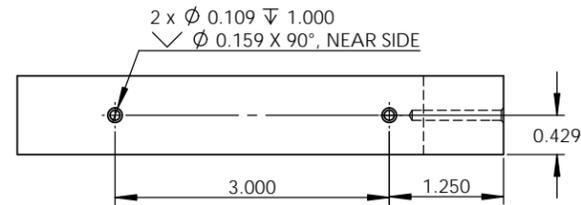
 Environment Canada / Environnement Canada
 Meteorological Service of Canada / Service Météorologique du Canada

TITLE:
CORNER BRACE

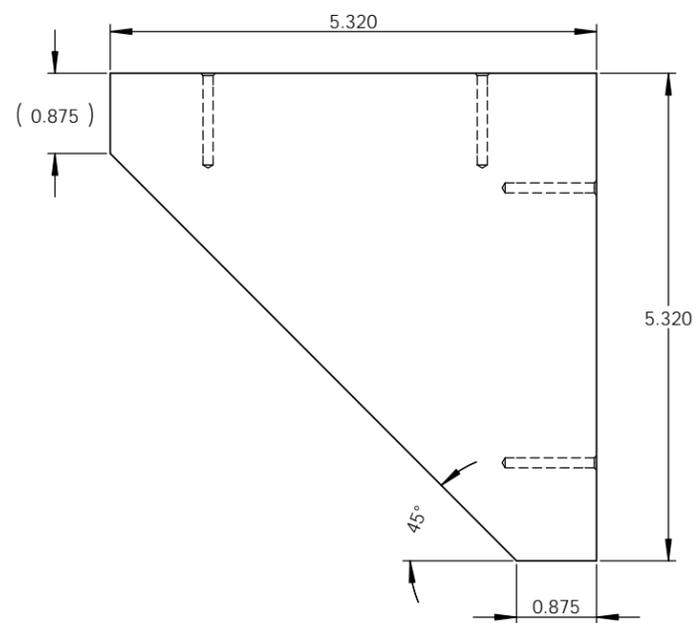
DRAWING NUMBER: **GND-SDT-B13** REVISION: **01**



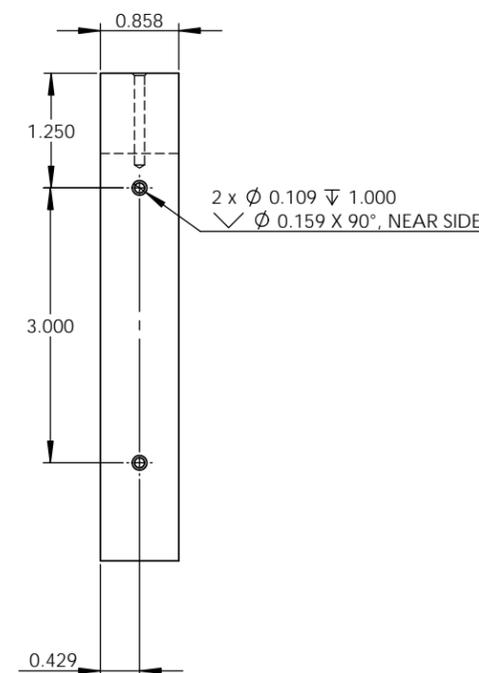
TOP VIEW

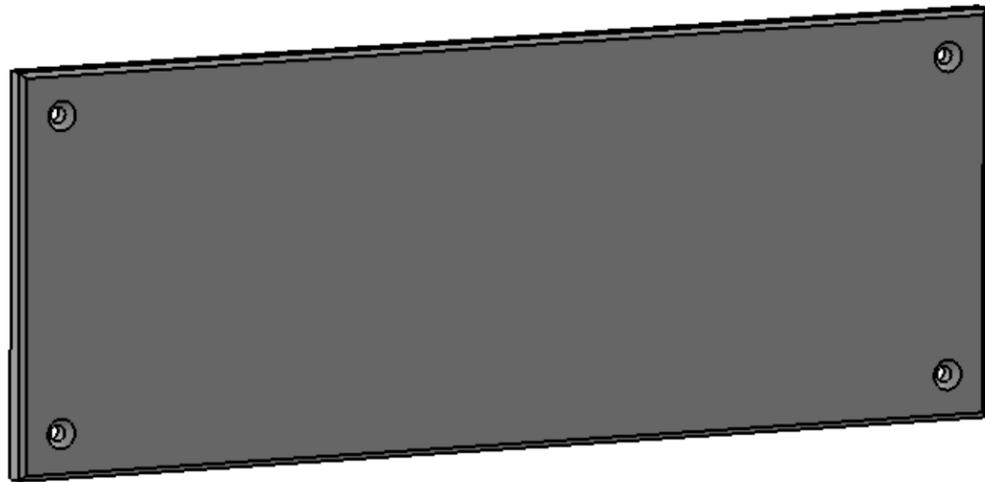


FRONT VIEW

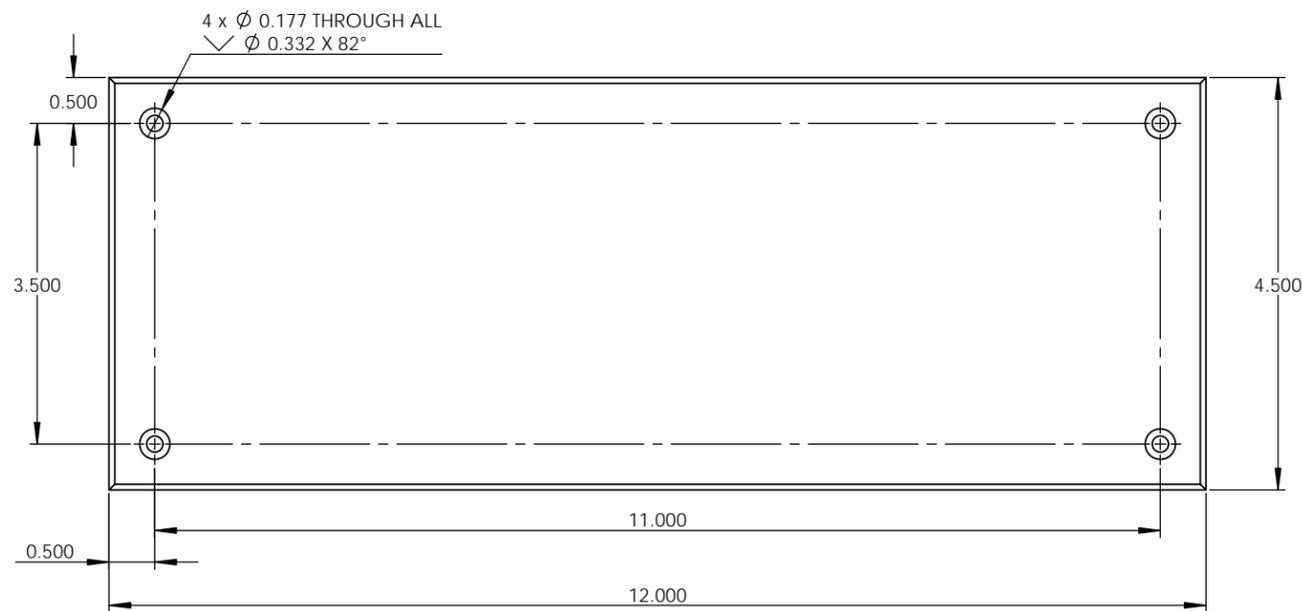


SIDE VIEW

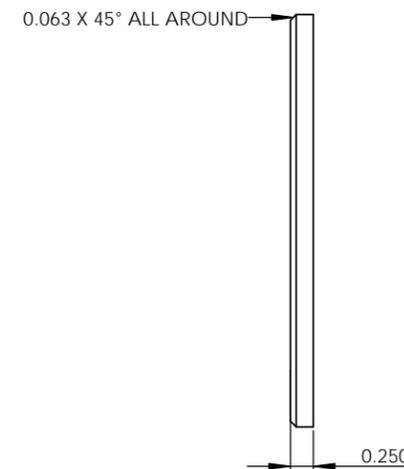




FRONT VIEW



SIDE VIEW



REVISION HISTORY:

REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	18/FEB/15	J.H.

NOTES:

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TOLERANCES UNLESS OTHERWISE SPECIFIED
 LINEAR: ± 0.030 "
 ANGULAR: $\pm 1.0^\circ$

DESIGN: JEFFERY HOOVER 18-FEB-2015

APPROVED: SORIN PINZARIU 18-FEB-2015

MATERIAL: SEE NOTES

FINISH: AS SUPPLIED

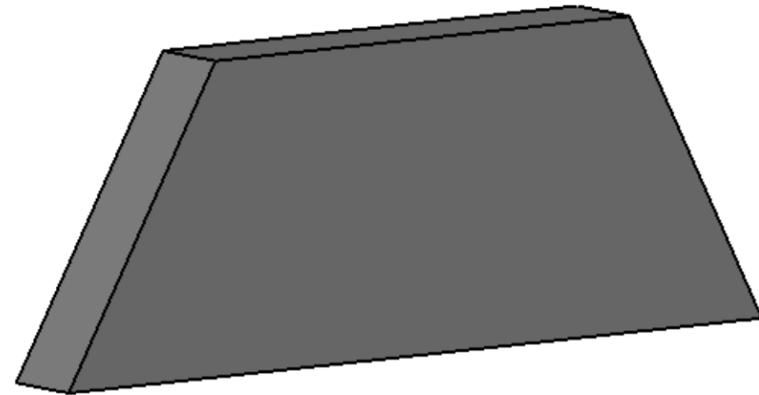
SPECIFICATION:

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED

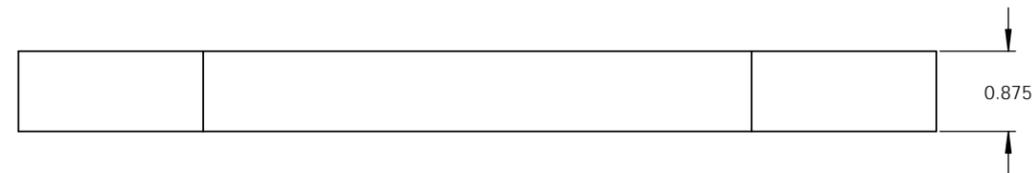
Environment Canada / Environnement Canada
 Meteorological Service of Canada / Service Météorologique du Canada

TITLE: **HANDLE COVER**

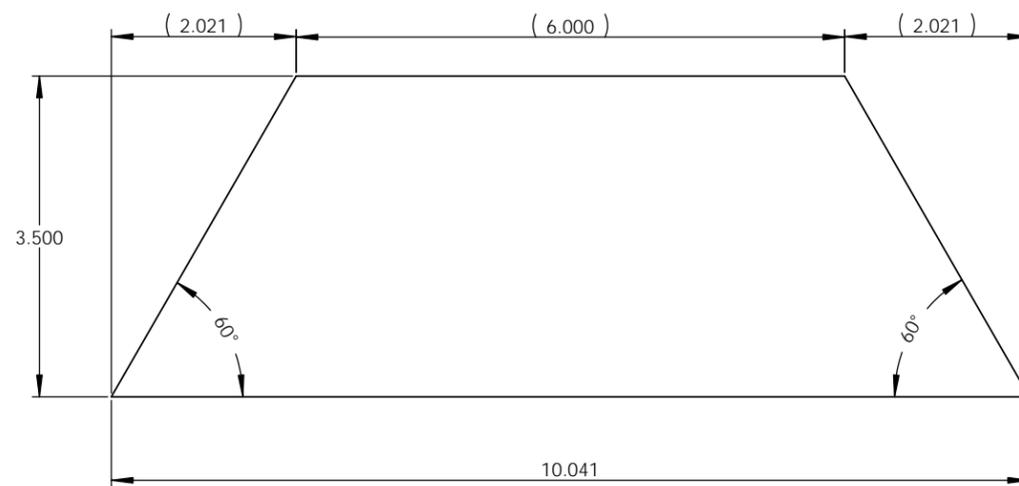
DRAWING NUMBER: **GND-SDT-B14** REVISION: **01**



TOP VIEW



FRONT VIEW



REVISION HISTORY:

REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	18/FEB/15	J.H.

NOTES:

1. MATERIAL: C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.
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TOLERANCES UNLESS OTHERWISE SPECIFIED
 LINEAR: ±0.030 "
 ANGULAR: ±1.0°

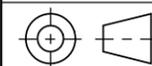
DESIGN: JEFFERY HOOVER 18-FEB-2015

APPROVED: SORIN PINZARIU 18-FEB-2015

MATERIAL: SEE NOTES

FINISH: AS SUPPLIED

SPECIFICATION:



ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED

Environment Canada / Environnement Canada
 Meteorological Service of Canada / Service Météorologique du Canada

TITLE:
HANDLE INSERT BLOCK

DRAWING NUMBER: **GND-SDT-B15** REVISION: **01**