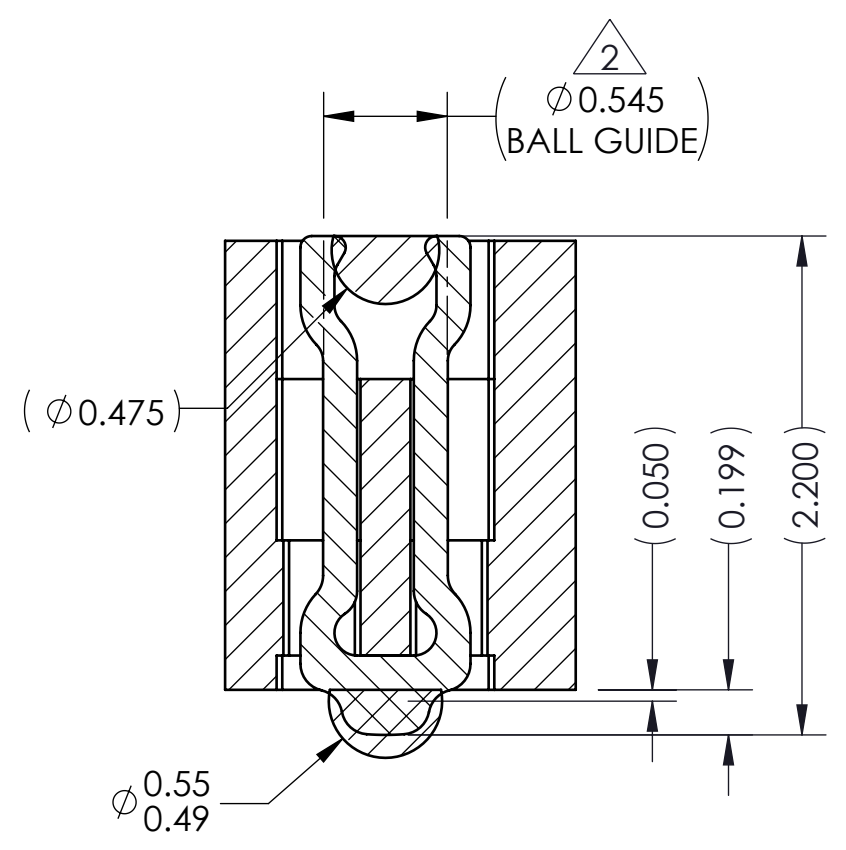
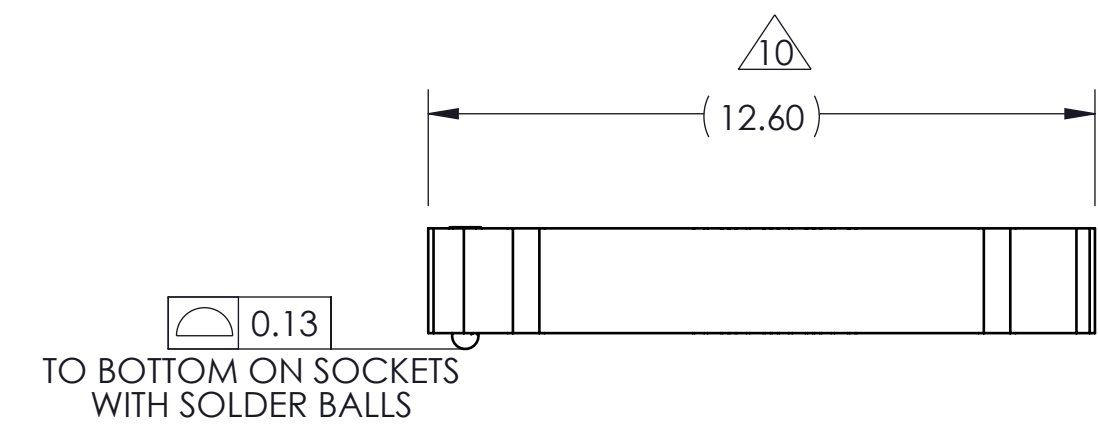
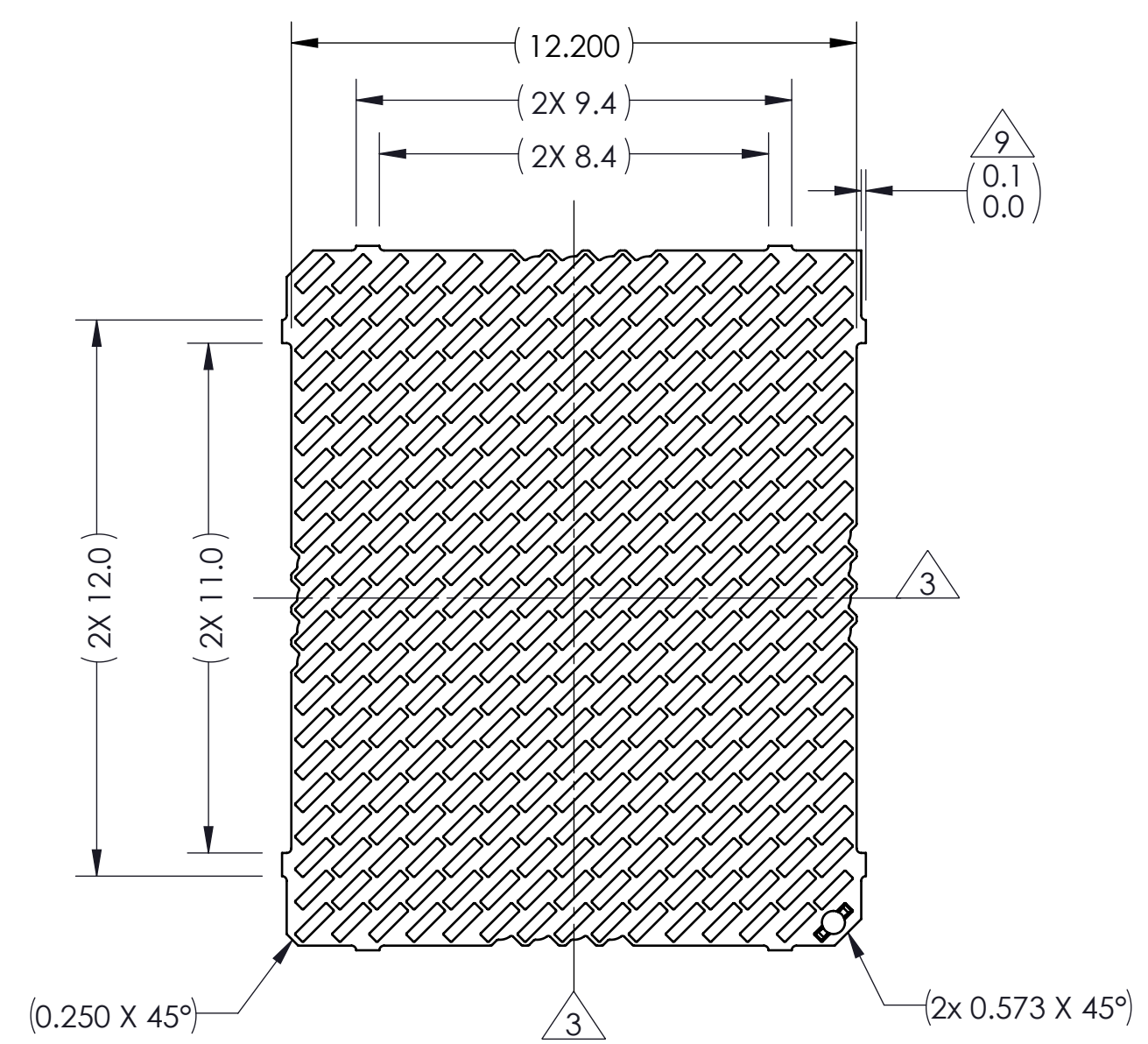
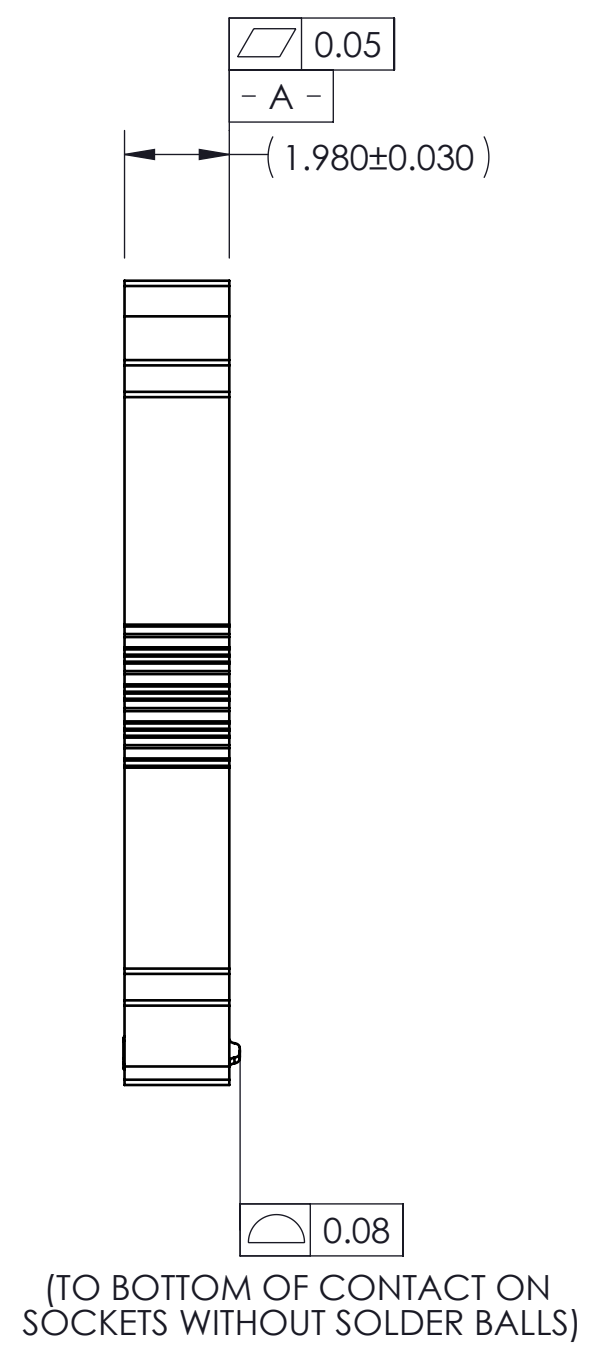
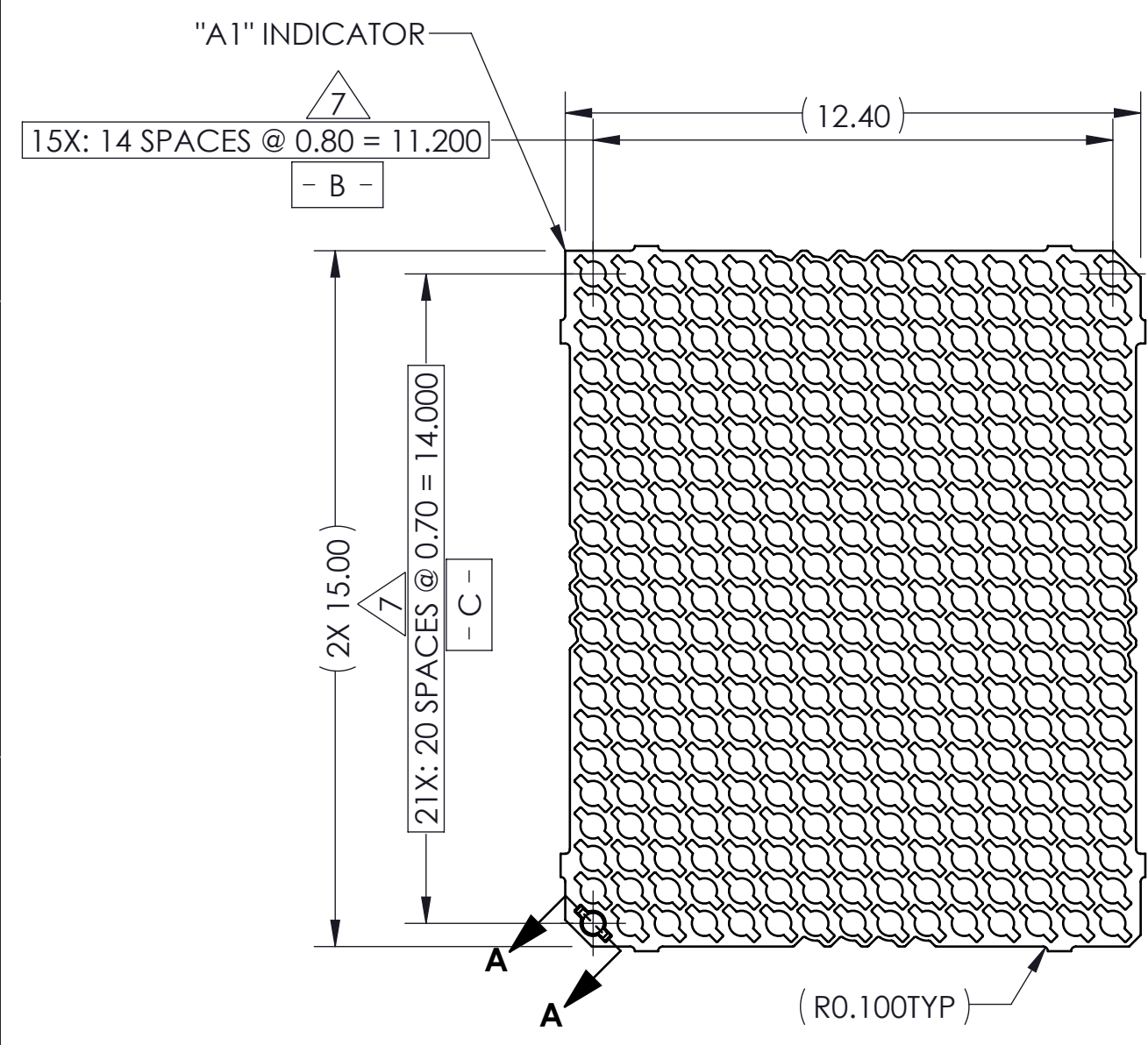


REV	ECO	BY	DESCRIPTION	APV	DATE
A	5394	DJP	INITIAL DESIGN	JJB	3/11/20



**SECTION A-A**  
SCALE 30:1

NOTES:

- UNLESS OTHERWISE NOTED, ALL FEATURES LOCATED  $\oplus 0.10$  A B C
- DATUM'S - B - AND - C - ARE DETERMINED BY  $\phi 0.545$  FEATURES ON CORNER SLOTS.
- CENTER OF CONTACT PATTERN.
- REFERENCE IRONWOOD ELECTRONICS SPECIFICATION 700001-0001 FOR SOLDER ATTACHMENT.
- REFERENCE IRONWOOD ELECTRONICS SPECIFICATION 700001-0002 FOR APPLICATION NOTES.
- DIMENSION LOCATES CENTER OF CONTACT/SLOT.
- ALL CONTACTS/SOLDER BALLS ARE NOT SHOWN TO MINIMIZE FILE SIZE.
- TOOLING MARKS PERMITTED. MAXIMUM 0.100 PROTRUSION SHOWN.
- DIMENSION INCLUDES 0.100 PROTRUSION.

PART NUMBER	DESCRIPTION
GR1032-0001	SCKT, 315BG 12.4X15.0-0.80X0.70, GRY (EUTECTIC SOLDER BALL)
GR1032-0002	SCKT, 315BGA 12.4X15.0-0.80X0.70, GRY (SAC305 SOLDER BALL)
GR1032-0003	SCKT, 315BGA 12.4X15.0-0.80X0.70, GRY (WITHOUT SOLDER BALL)
103864-0025	PRESS DEVICE INSERT, 10.0 X 15.0 (SOLD SEPARATELY)
104553-0554	STENCIL FLEX, 315BGA, 12.4X15.0-0.80X0.70 (SOLD SEPARATELY)
105900-0004	EXTRACTION TOOL, 4 X 53 (SOLD SEPARATELY)
108639-0154	ALIGNMENT FRAME, GRY 12.4 X 15.0 (SOLD SEPARATELY)

**PROPRIETARY AND CONFIDENTIAL**

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UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN MILLIMETERS  
 TOLERANCES:  
 ANGULAR: ± 1°  
 X.X ± 0.25  
 X.XX ± 0.10  
 X.XXX ± 0.050

INTERPRET GEOMETRIC TOLERANCING PER:  
 MATERIAL: SEE B.O.M  
 FINISH:  
 DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	DJP	3/11/20
CHECKED	JJB	3/11/20

LEGEND:  
 △ NOTE CALLOUT  
 □ REVISION CHANGE  
 ○ ITEM NUMBER

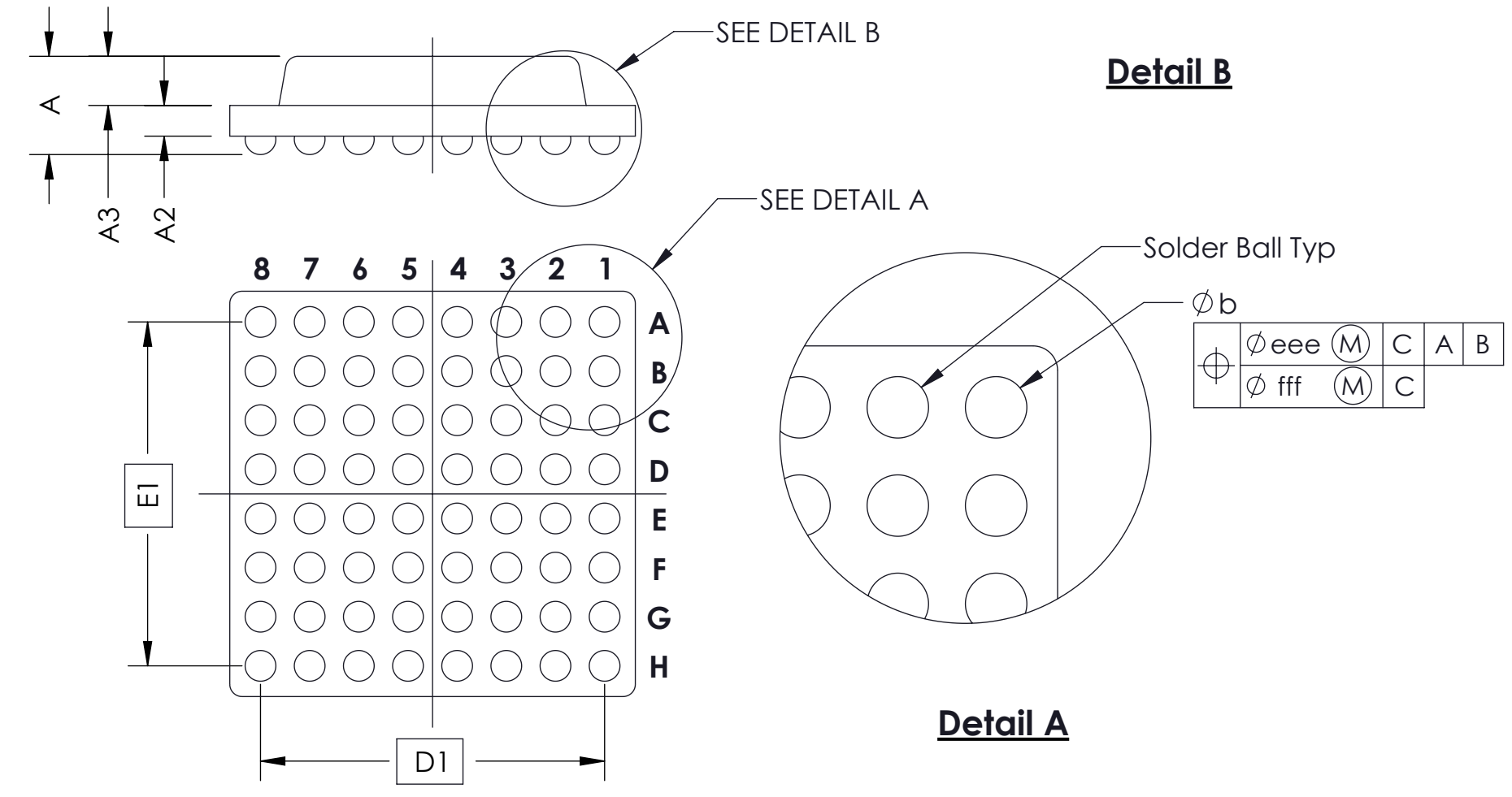
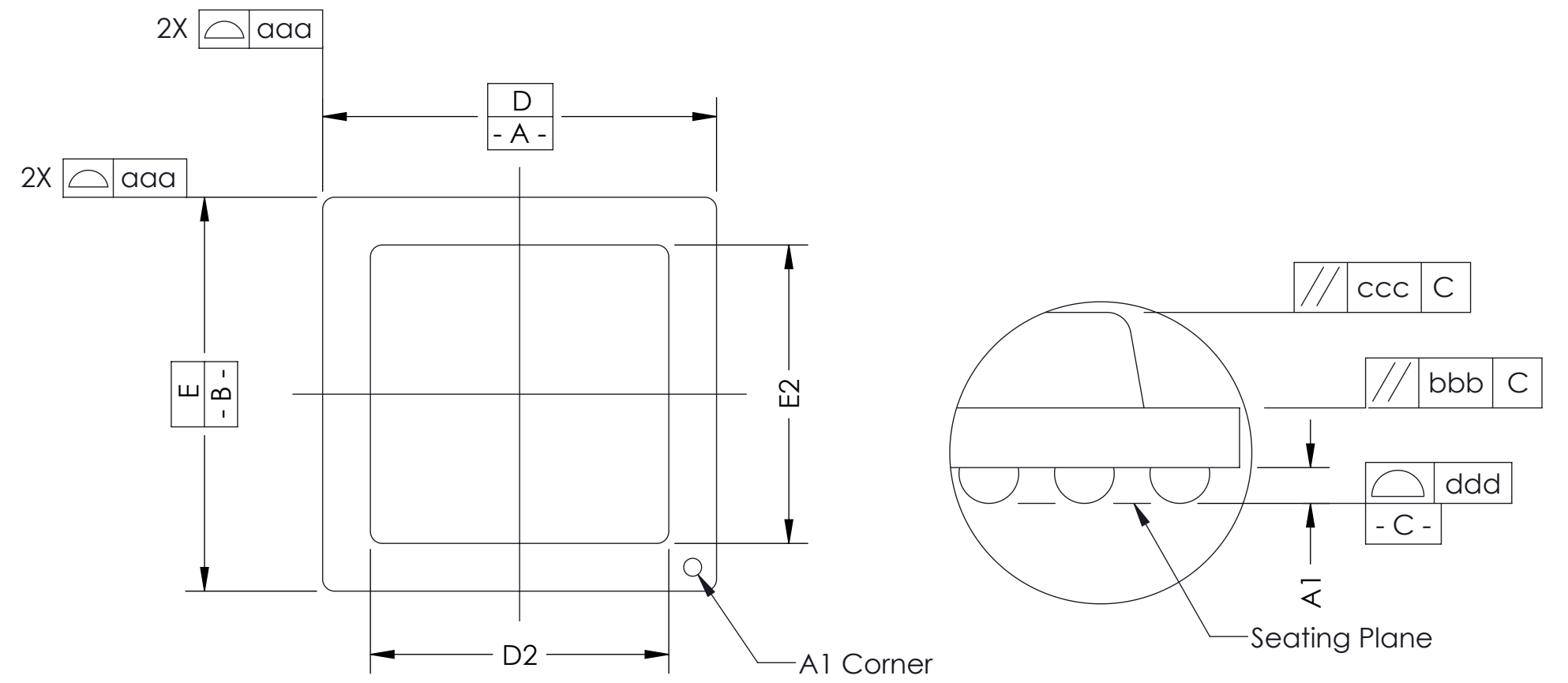
**IRONWOOD ELECTRONICS, INC.**  
 1335 EAGANDALE COURT  
 EAGAN, MINNESOTA 55121  
 952-229-8200

TITLE:  
**SCKT, 315BGA 12.4X15.0-0.80X0.70, GRY**

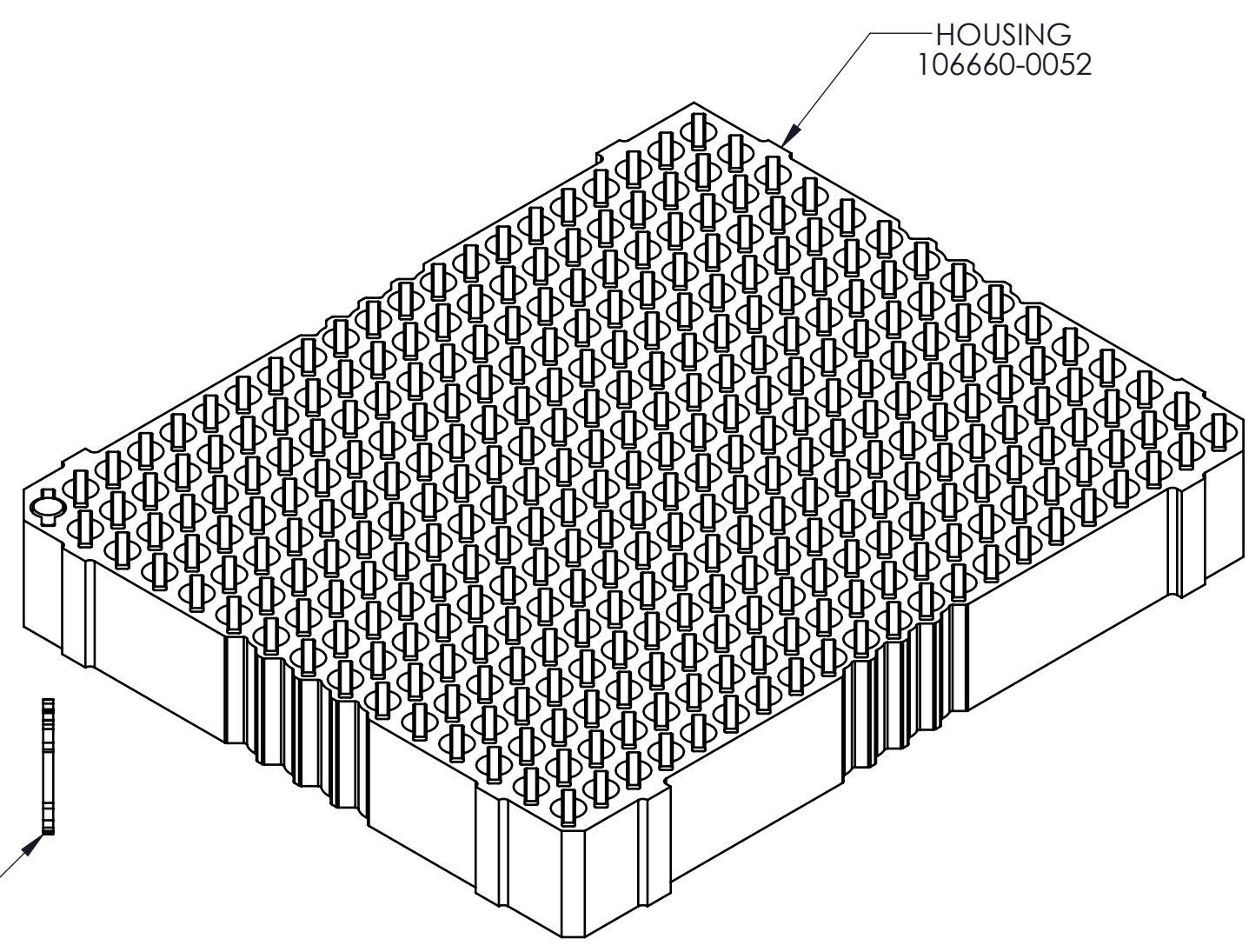
DWG. NO. **GR1032-XXXX** REV **A**

SCALE: 7:1 | SIZE: C | SHEET 1 OF 2


SOCKET FOR DEVICES THAT ARE WITHIN THESE SPECIFICATIONS				
Lead Count	<b>N</b>	315	Package Size	<b>D</b> 12.40
Columns	<b>ND</b>	15		<b>E</b> 15.00
Rows	<b>NE</b>	21	Ball Spacing	<b>D1</b> 11.200
Pitch	<b>e</b>	0.80X0.70		<b>E1</b> 14.000
Ball Size	<b>b</b>	0.475+0.05/ -0.045	Encapsulant/ Top Size	<b>D2</b> N/A
Total Thickness	<b>A</b>	N/A		<b>E2</b> N/A
Ball Height	<b>A1</b>	0.275 MIN	Pattern Style	FULL
Substrate Thickness	<b>A2</b>	N/A	Perimeter Rows	N/A
Top Thickness	<b>A3</b>		Center Array	N/A
Form Tolerances				
Edge	<b>aaa</b>	0.20	Bottom	<b>ddd</b> 0.15
Substrate	<b>bbb</b>	0.20	Position	<b>eee</b> 0.20
Top	<b>ccc</b>	0.20	Position	<b>fff</b> 0.10
* ALL DIMENSIONS ARE IN MILLIMETERS.				



**Generic Representation with Full Grid Array**



**SCALE 10 : 1**

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	INTERPRET GEOMETRIC TOLERANCING PER:	CHECKED JJB 3/10/20	LEGEND: △ NOTE CALLOUT □ REVISION CHANGE ○ ITEM NUMBER		
	MATERIAL SEE B.O.M	DO NOT SCALE DRAWING			
	FINISH	N/A			
		SIZE: C		SHEET 2 OF 2	