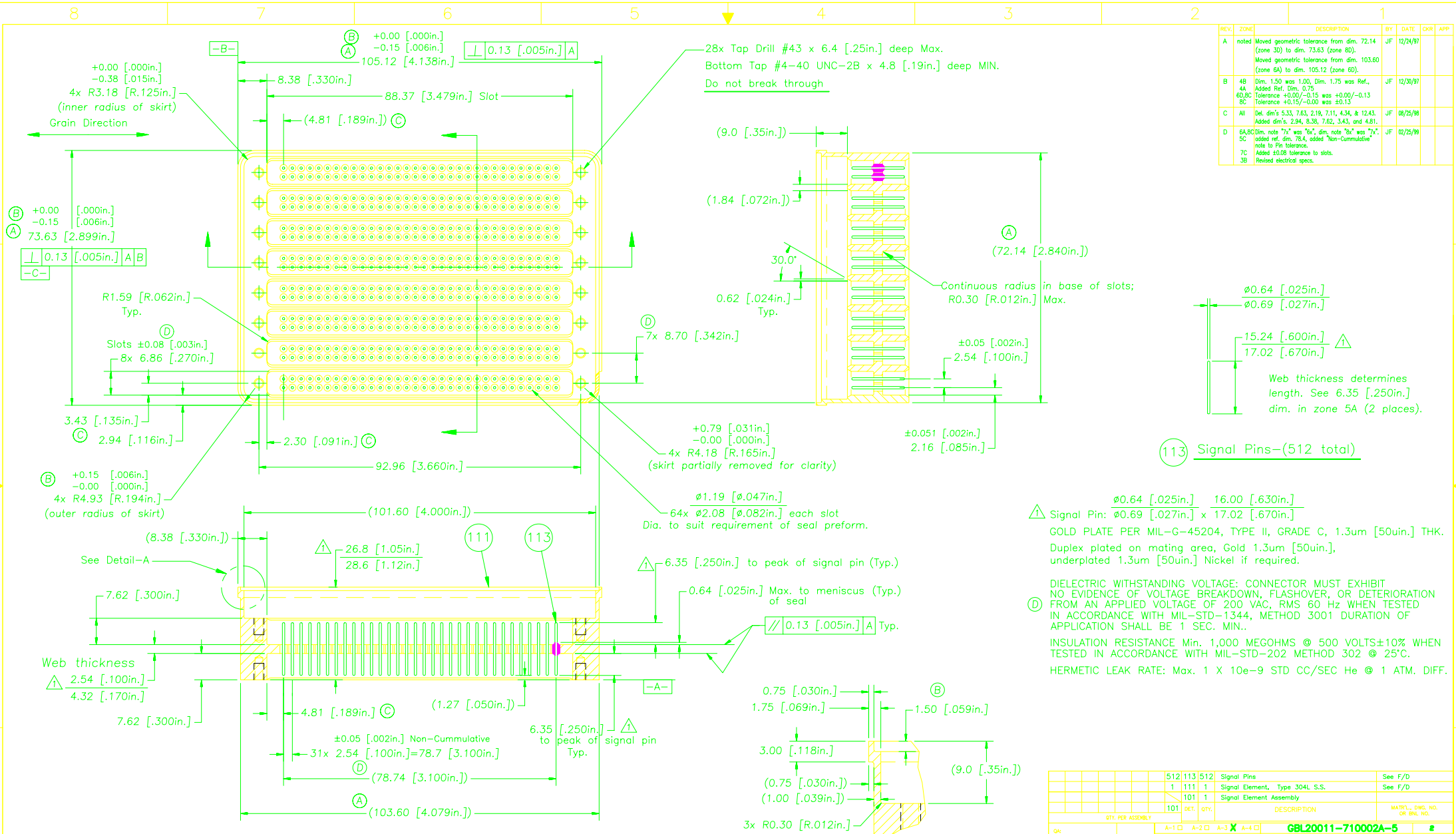

REV.	ZONE	DESCRIPTION	BY	DATE	CKR	APP
A	noted	Moved geometric tolerance from dim. 72.14 (zone 3D) to dim. 73.63 (zone 8D). Moved geometric tolerance from dim. 103.60 (zone 6A) to dim. 105.12 (zone 6D).	JF	12/24/97		
B	4B 4A 6D,8C 8C	Dim. 1.50 was 1.00, Dim. 1.75 was Ref., Added Ref. Dim. 0.75 Tolerance +0.00/-0.15 was +0.00/-0.13 Tolerance +0.15/-0.00 was ±0.13	JF	12/30/97		
C	All	Del. dim's 5.33, 7.63, 2.19, 7.11, 4.34, & 12.43. Added dim's. 2.94, 8.38, 7.62, 3.43, and 4.81.	JF	08/25/98		
D	6A,8C 5C 7C 3B	Dim. note "7x" was "6x", dim. note "8x" was "7x", added ref. dim. 78.4, added "Non-Cummulative" note to Pin tolerance. Added ±0.08 tolerance to slots. Revised electrical specs.	JF	02/25/99		

1 Signal Pin: ø0.64 [.025in.] / ø0.69 [.027in.] x 16.00 [.630in.] / 17.02 [.670in.]

GOLD PLATE PER MIL-G-45204, TYPE II, GRADE C, 1.3um [50uin.] THK.

Duplex plated on mating area, Gold 1.3um [50uin.], underplated 1.3um [50uin.] Nickel if required.

D DIELECTRIC WITHSTANDING VOLTAGE: CONNECTOR MUST EXHIBIT NO EVIDENCE OF VOLTAGE BREAKDOWN, FLASHOVER, OR DETERIORATION FROM AN APPLIED VOLTAGE OF 200 VAC, RMS 60 Hz WHEN TESTED IN ACCORDANCE WITH MIL-STD-1344, METHOD 3001 DURATION OF APPLICATION SHALL BE 1 SEC. MIN..

INSULATION RESISTANCE Min. 1,000 MEGOHMS @ 500 VOLTS±10% WHEN TESTED IN ACCORDANCE WITH MIL-STD-202 METHOD 302 @ 25°C.

HERMETIC LEAK RATE: Max. 1 X 10e-9 STD CC/SEC He @ 1 ATM. DIFF.

1 Manufacturing method determines Web thickness, Signal Pin length, and overall height based on Mfgr.'s Seal Preform installation.

Notes: Unless otherwise specified:

ALL DIMENSIONS ARE IN MILLIMETERS
DIMENSIONS IN BRACKETS [ ] ARE IN INCHES.

	512	113	512 Signal Pins — See F/D
	1	111	1 Signal Element, Type 304L S.S. — See F/D
	101	1	Signal Element Assembly
QTY. PER ASSEMBLY	101	DET.	QTY. DESCRIPTION — MATRL., DWG. NO. OR BNL NO.

QA: A-1 ☐ A-2 ☐ A-3 X A-4 ☐ QA CATEGORY — GBL20011-710002A-5 — 2 — USED ON DWG. NO. — NO. PER ASSY

DRWN: Jason Farrell 12/19/97 — ENGR: — CHK: — SUPV: — APP'D DATE APP'D DATE

UNLESS OTHERWISE SPECIFIED DIMENSIONS AND TOLERANCES ARE MM [IN]

Decimals X. [X.X]	±.76 [.030]	Fractions 0-20	±1 [1/32]
Decimals X.X [X.XX]	±.38 [.015]	Fractions > 20	±3 [1/8]
Decimals X.XX [X.XXX]	±.13 [.005]	Break Edges Min.	.13 [.005]
Angular	±0.5°	Break Edges Max.	.38 [.015]
Finish	3.2 [125]	Weight (kg) [lbs]	

BROOKHAVEN NATIONAL LABORATORY, UPTON, N.Y. 11973

ATLAS 512 Pin Signal Element

SHEET 1 of 1 — SCALE: 8/1

SIZE D — DRAWING NUMBER GBL20011-600148 -4 — REV D

ATLAS — D. MAHN 1999-04-20 — PROJECT ENGINEER — P. PAILLER 1999-04-20 — FOR INFORMATION — ATLABFS 0014 AA

FILENAME: E:\DWGS\ATLAS\GBL20011\600000.DIR\600148D-4

Date: 02/25/1999

*AUTOCAD