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MEMO

Hochiki America Corporate Planning

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DATE: June 7, 1996 **CC:** LL, DH- HA

TO: Chris Brown- USNRC **# of pages: 1**

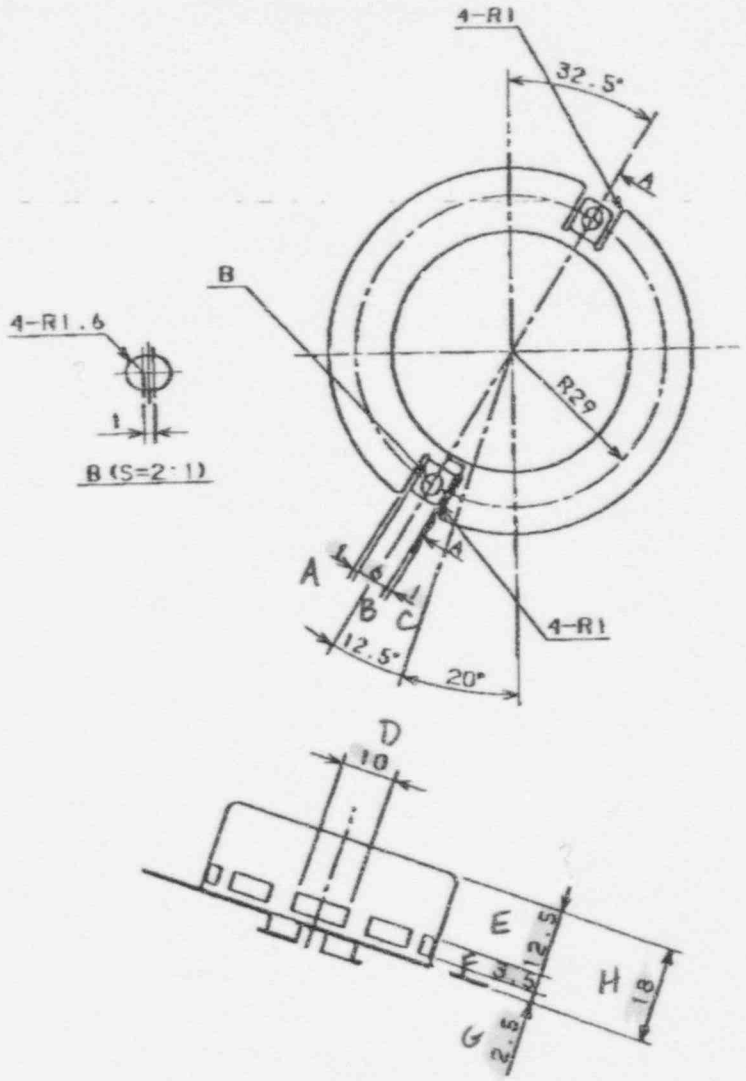
FROM: Gyo Shinozaki GJ

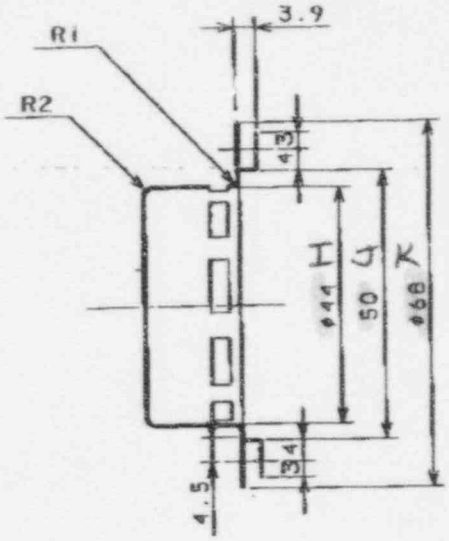
RE: Reply to June 3, 1996 letter

The following are Hochiki America's response to your letter dated June 3, 1996.

1) The QA/QC program descriptions have been revised in our AI_ SERIES submittal of June 7, 1996. The procedures follow Appendix C of Regulatory Guide 6.9. Additionally you will find attached a marked up copy of material drawings. These drawings indicate the areas that are dimensionally checked by our incoming inspection personnel. By verifying that the indicated areas on each part conform to specification we can guarantee that the chamber assembly will also conform to design specifications. The drawings are QC versions of enclosures A7, A9, A10, A11, A12, B5, B7, B9 and B11 included in our AI_ SERIES submittal.
2) Drop tests were inexplicably performed at 6 ½ feet. We repeated the test at 12 feet. This represents a height similar to what our detectors are installed at in a ceiling. The results are included in AI_ SERIES submittal enclosures A18 and B28. The second issue regarding removable contamination is still an open issue. We have been told that Wipe Tests were performed on the test equipment before and after the vibration tests and that a passing evaluation for the entire test means that the Wipe Test was also sufficient. We are currently looking for the ISO or ANSI version of the JIS standard used for this test.
3) As stated above we are currently attempting to locate a copy of ISO 1677 and 2919 or ANSI N542 which are the JIS equivalent of the Sealed Radioactive Source Standard. Please allow us 1 more week to provide this for you. As for the issue of the holder, please note that XM-11781 is a Hochiki part number and AZ-93-063 is the Hochiki drawing number for the same part. The testing organization simply noted the part number instead of the drawing number.
4) A new drawing of the name label with the correct safety statements is included in AI_ SERIES submittal enclosure A13.
5) The thickness of both AIE and AIC type detectors is 0.031 inches. The process in which the holder and inner electrode are secured is outlined in AI_ SERIES submittal- "Details of Construction".
6) Upon further review of the calculations in our original submittal it was found that all the calculated doses were higher than measured except for the 25cm distance. Thus in the AI_ SERIES submittal the calculations involving the 25cm distance were recalculated using the higher of the 2 actual measurements, the AIE value of 1.24 uR/hr. In this way we can insure calculations based on worst case scenarios.

Please let me know if you should have any questions on our responses. Thank you for your cooperation in advance.

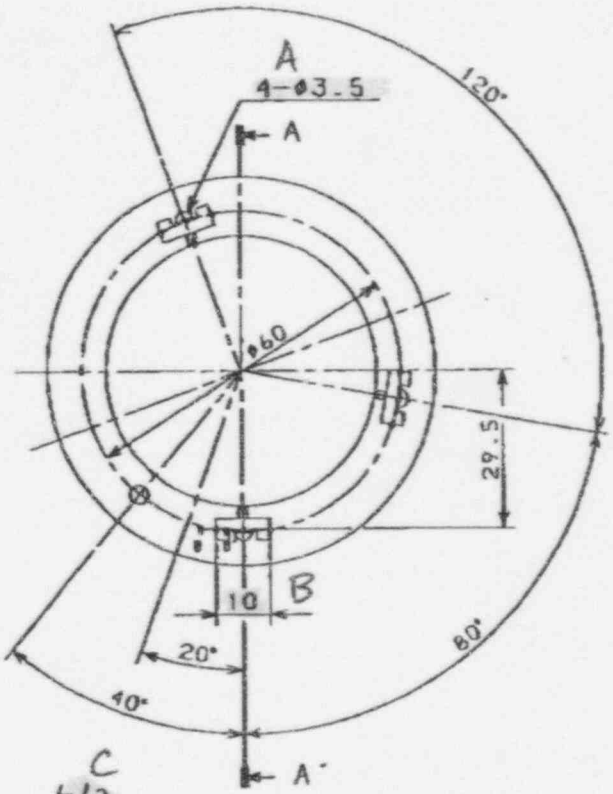


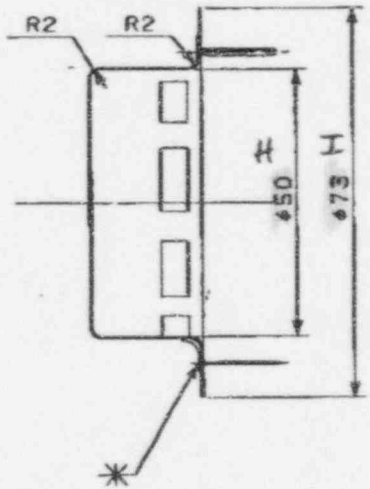


A-A

A1E

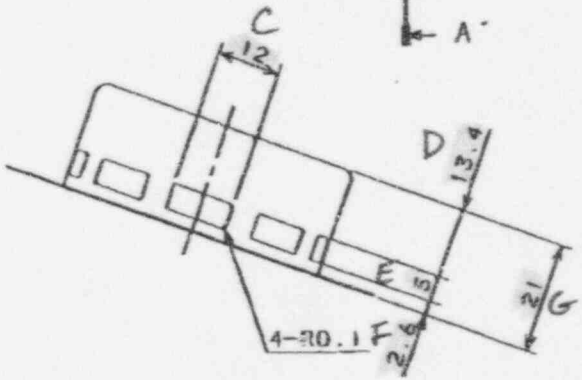
DRAWN Y. Kawabata	DATE 20.OCT.'95	TITLE OUTER ELECTRODE	
CHECKED T. Sugahara	UNIT mm	DWG NO. A2-95-0248	
APPROVED T. Menowa	SCALE 1:1	HOCHIKI CORPORATION	





A-A'

B-B' (S=5:1)



AIC

DRAWN H. Shibuya	DATE 6.SEP.'93	TITLE OUTER ELECTRODE
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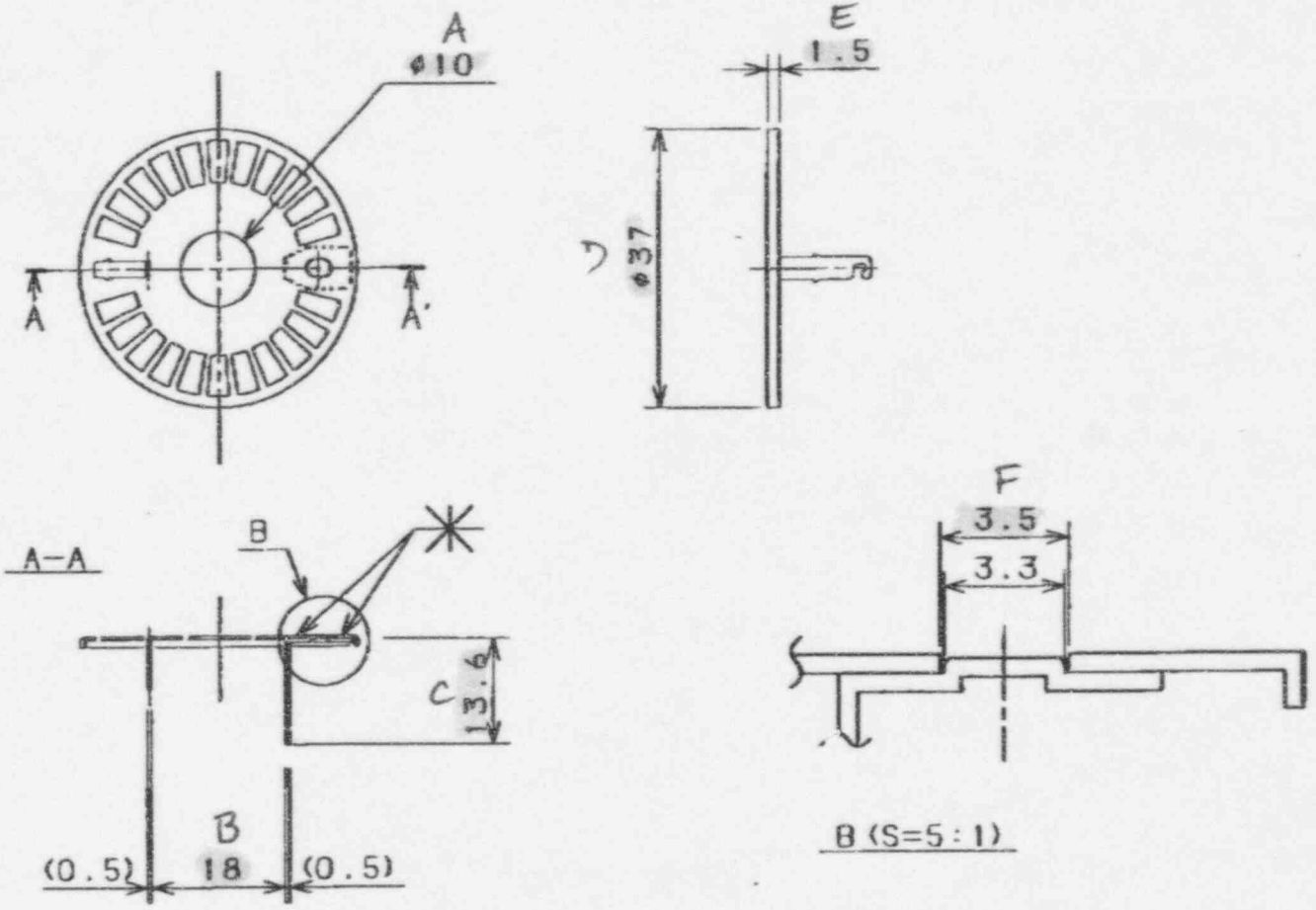
APPROVED O. Kimura	SCALE	HOCHIKI CORPORATION



B (S=5 : 1)

A1E

DRAWN Y. Kawabata	DATE 20.OCT.'95	TITLE INTERMEDIATE ELECTRODE
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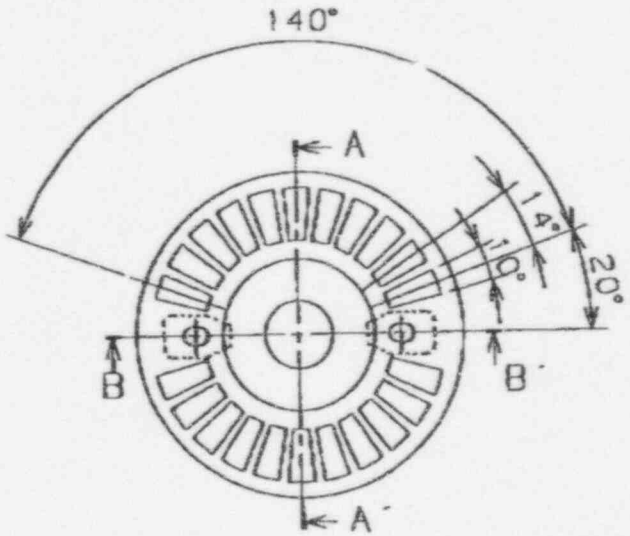
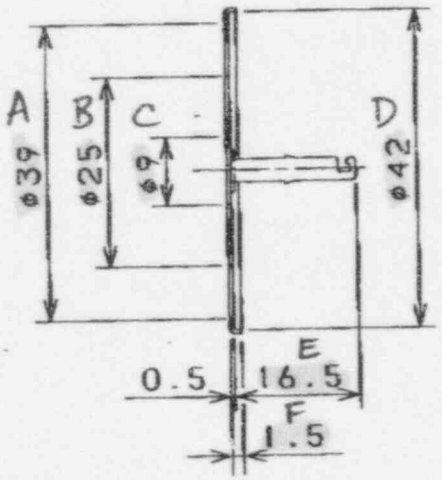
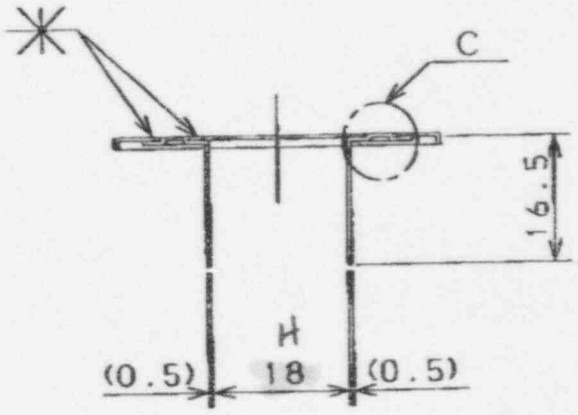
APPROVED	SCALE 1 : 1	HOCHIKI CORPORATION

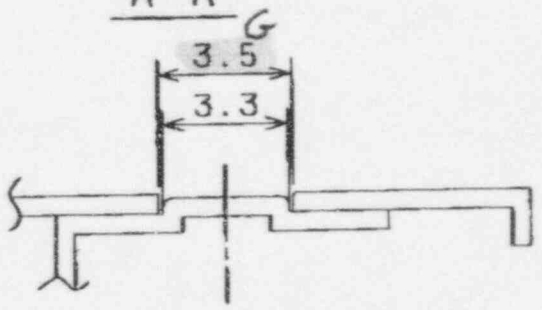




A-A'

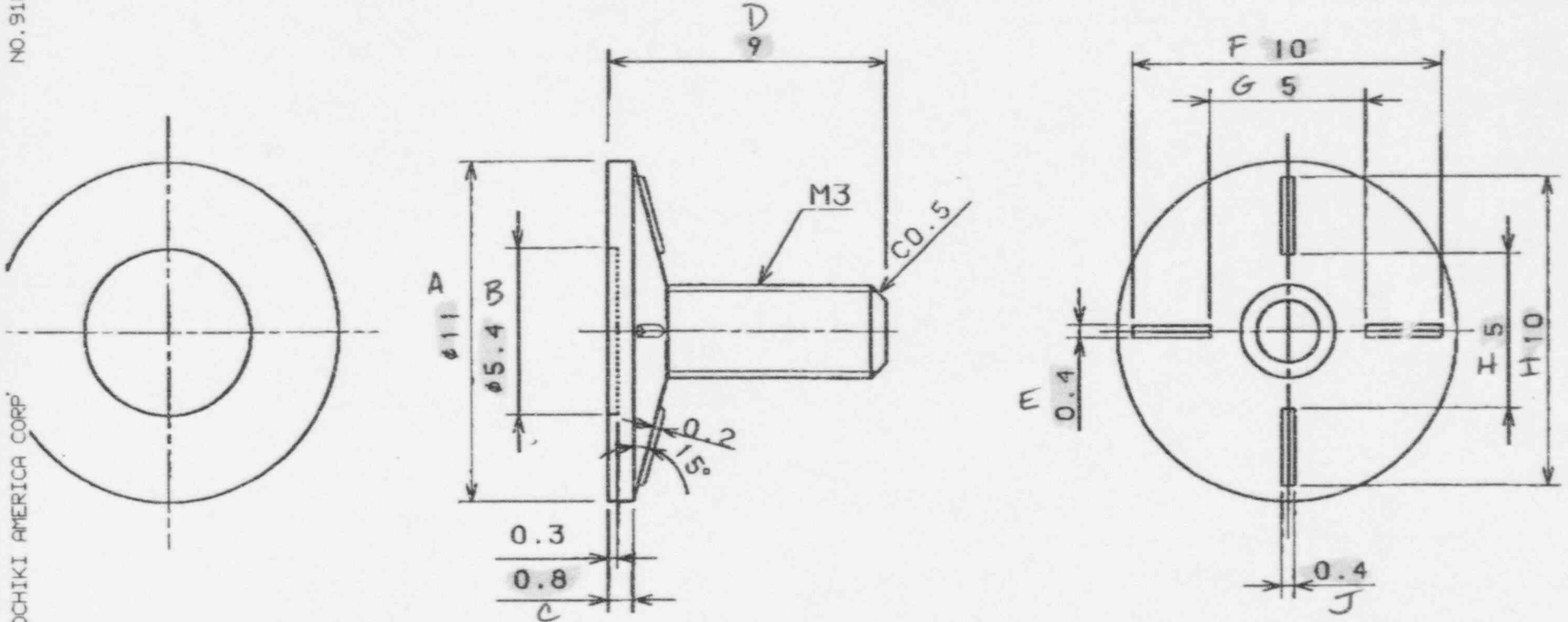


B-B'



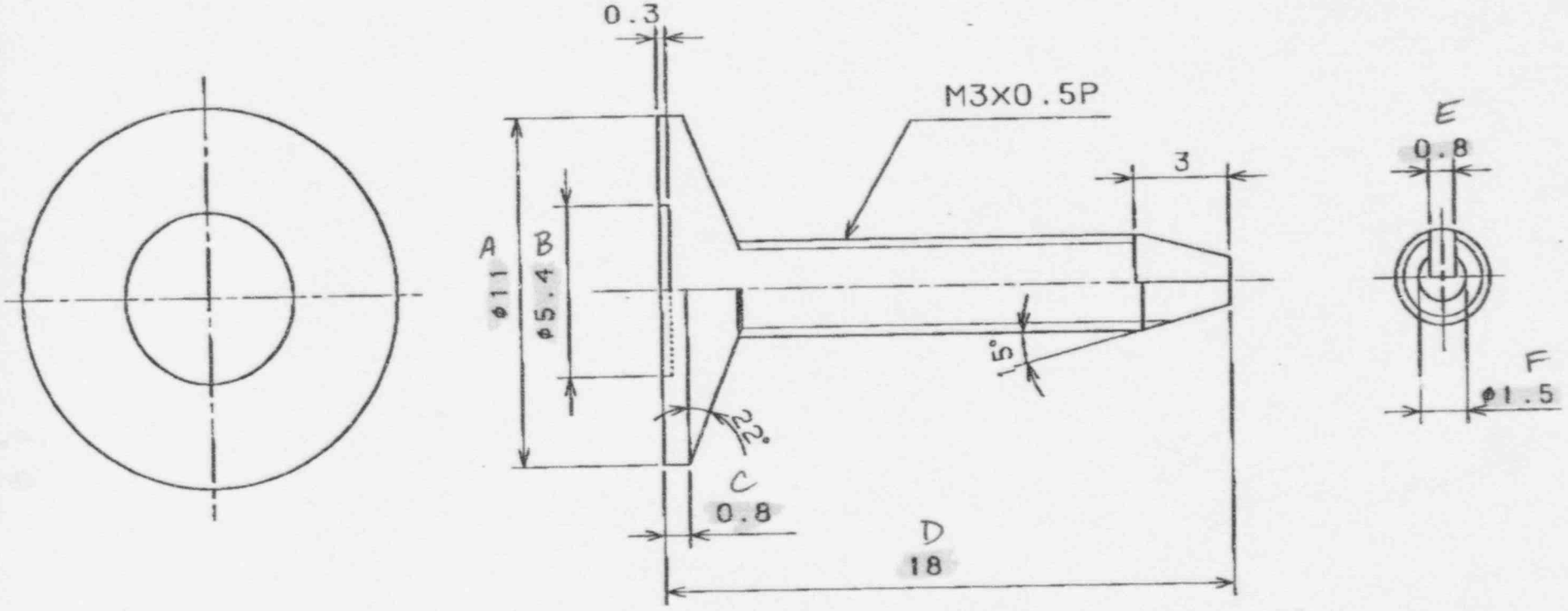
C (5:1)

DRAWN H. Shibuya	DATE 4. SEP. '93	TITLE INTERMEDIATATE ELECTRODE
CHECKED T. Iwata	UNIT mm	DWG NO. A2-93-0162
APPROVED O. Hinowa	SCALE	HOCHIKI CORPORATION



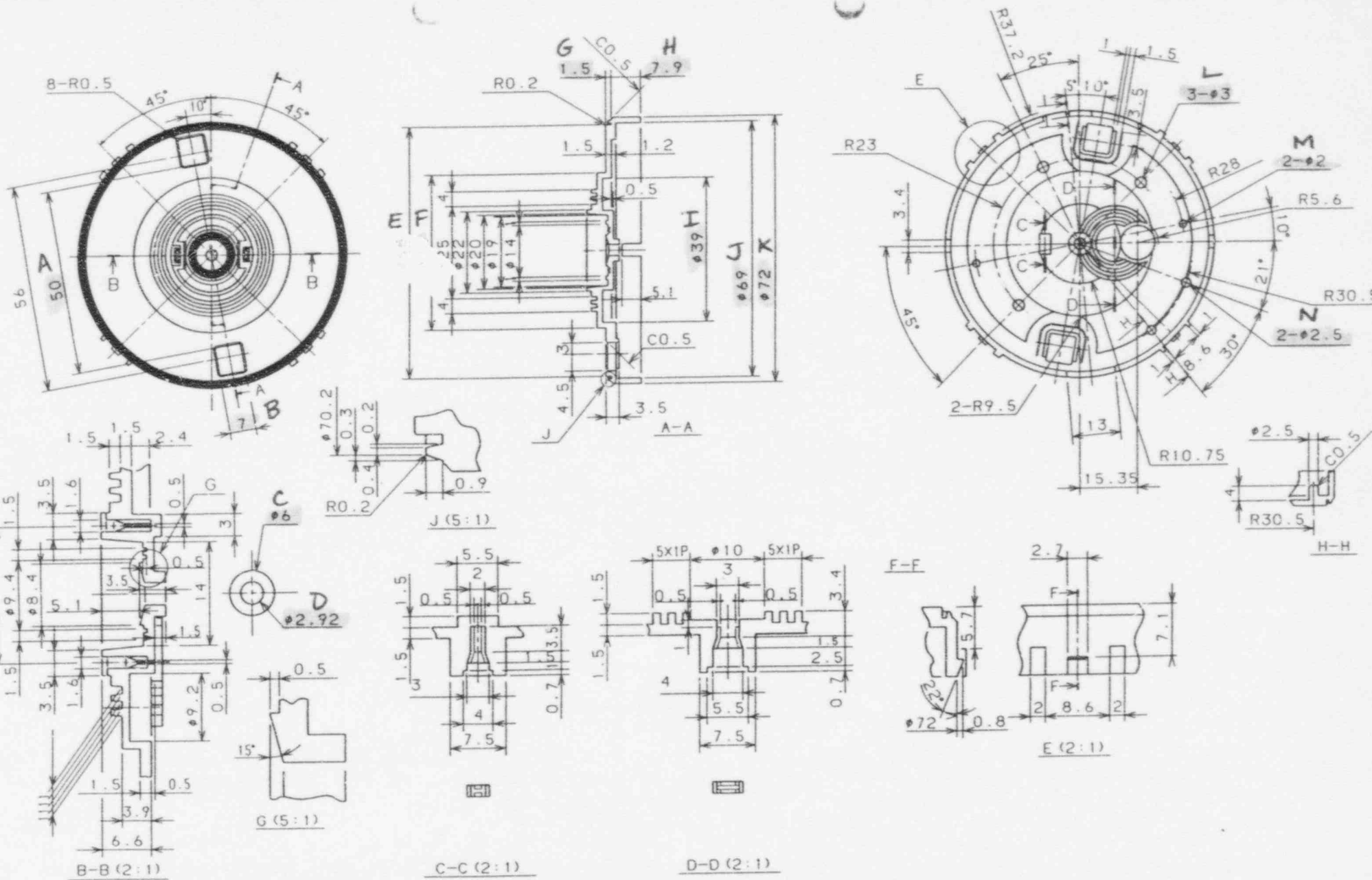
AIE

DRAWN Y. Kawabata	DATE 20.OCT.'95	TITLE INNER ELECTRODE
CHECKED T. Nozaburo	UNIT mm	DWG NO. A2-95-0250
APPROVED J. Kimura	SCALE 5:1	HOCHIKI CORPORATION



AIC

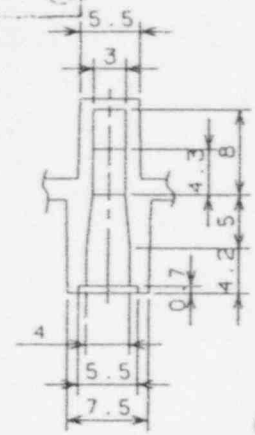
DRAWN H. Shibuya	DATE 6.SEP.'93	TITLE INNER ELECTRODE	
CHECKED J. Iwata	UNIT mm	DWG NO. A2-93-0163	
APPROVED O. Kinoshita	SCALE	HOCHIKI CORPORATION	



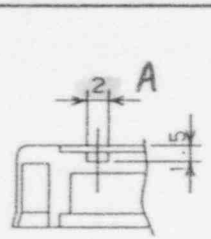
AIE

DRAWN Y. Kawabata	DATE 20.OCT.'95	TITLE	INSULATION PLATE
CHECKED	UNIT mm	DWG NO.	A2-95-0251
APPROVED	SCALE 1:1		HOCHIKI CORPORATION

ISSUED



F-F' (S=2:1)



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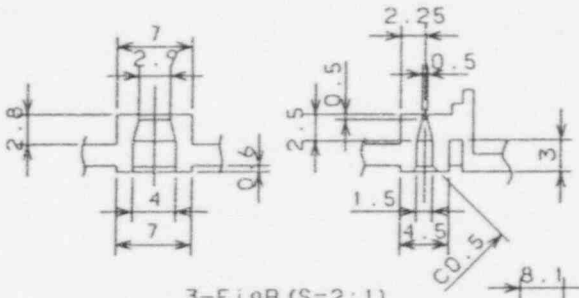
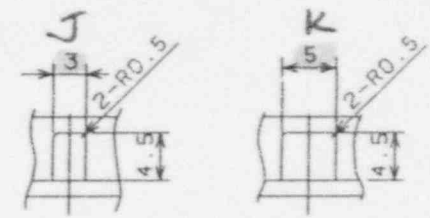
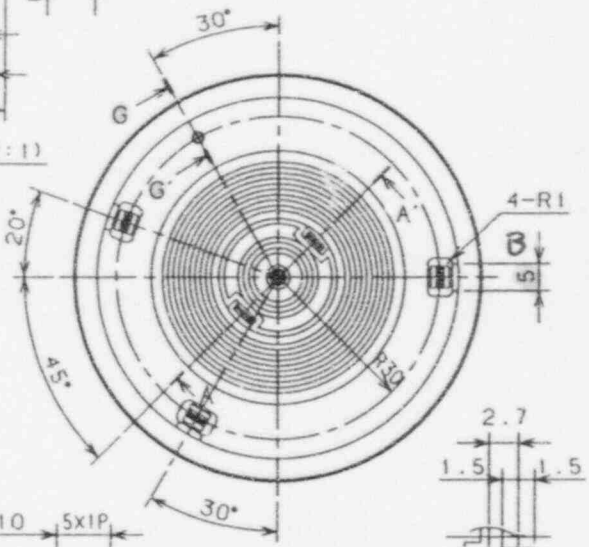


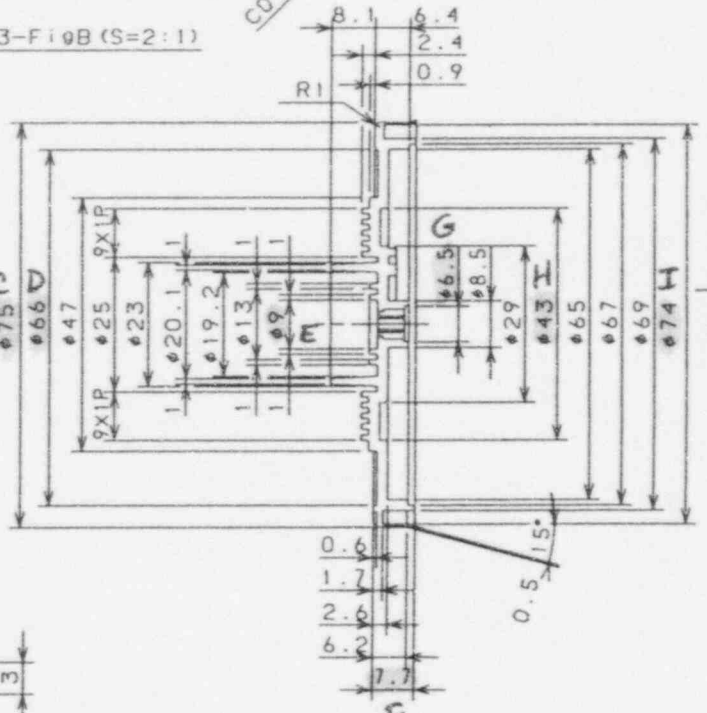
3-FigB (S=2:1)

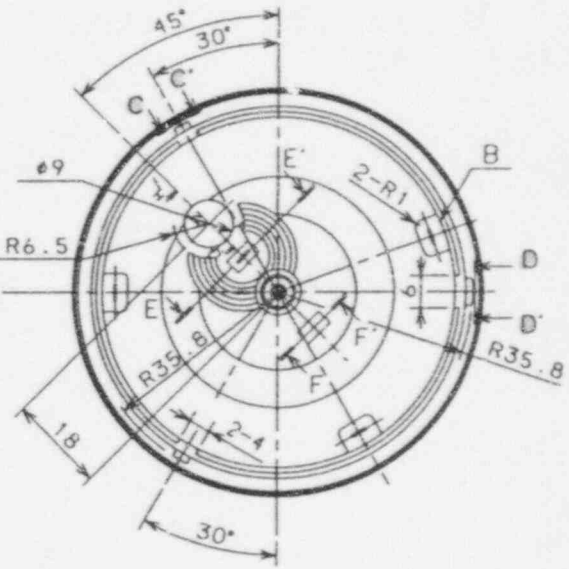


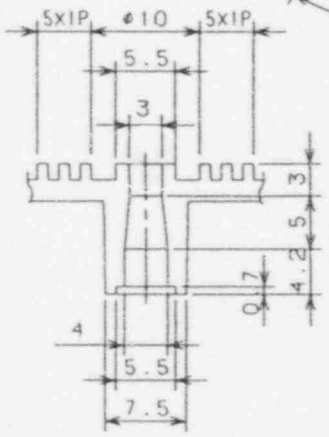
C-C' (S=2:1)

D-D' (S=2:1)

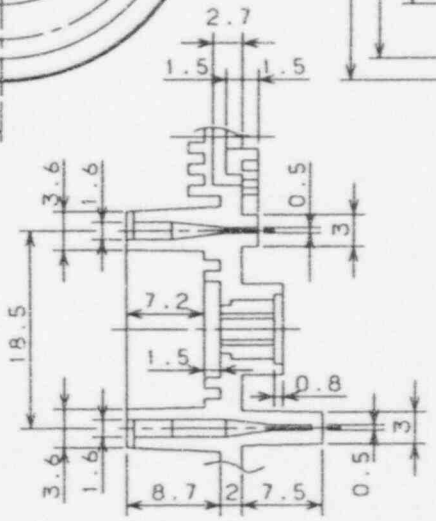








E-E' (S=2:1)



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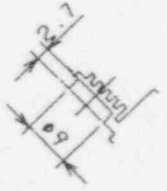
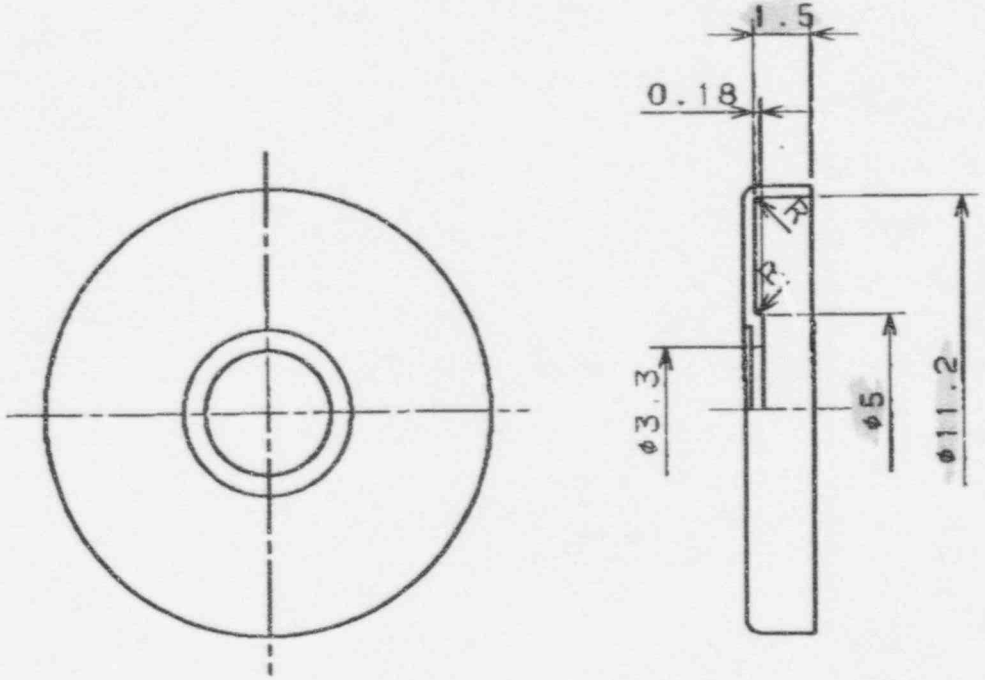


H-H'

AIC

DRAWN H. Shibuya	DATE 6.SEP.'93	TITLE	INSULATION PLATE
CHECKED T. Iwata	UNIT mm	DWG NO.	A2-93-0167
APPROVED O. Kimura	SCALE		HOCHIKI CORPORATION



AIE

DRAWN A. Kawabata	DATE 7.SEP.'93	TITLE RI HOLDER	
CHECKED T. Nagatsuma	UNIT	DWG NO. A2-93-0172	
APPROVED	SCALE	HOCHIKI CORPORATION	