

APPENDIX D

DATA PREPARATION AND HANDLING

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APPENDIX D

DATA PREPARATION AND HANDLING

D.1 Introduction

This appendix describes the procedures used to submit and resubmit STRUDL and STRUBAG problems to the computer. STRUDL jobs are processed on an individual job basis. Individual jobs are used because the dynamic core memory allocation capability of the ICES System allows us to specify a variable amount of computer space in core for each STRUDL job. Thus, the amount of computer space can be varied in accordance with the size or number of degrees of freedom of the structure being analyzed.

Initial STRUDL input statements may be coded on the ICES form DAS-CS-329(Rev. 1/1/78), attached to the "BRIDGE JOB CONTROL" form and submitted for key data entry and batch processing.

Initial STRUBAG input statements may be coded on the STRUBAG input form DS-D175 thru 178, (refer to Appendix E), these are attached to the "BRIDGE JOB CONTROL" form and submitted for key data entry and batch processing.

STRUBAG and STRUDL input data may also be entered initially from a VM/CMS Terminal by the user.

All input data is stored in the users VM/CMS account as filetype STRUDL or STRUBAG. These files are updated and changed and subsequent jobs processed directly from the VM/CMS terminal.

DEPARTMENT OF TRANSPORTATION
 BRIDGE JOB CONTROL
 DN-OSD 149 (REV 1/74)

BDEJCL

PROGRAM NAME	PRIORITY	SOURCE		CHARGE		EXPENSO AUTH	SPECIAL DESIGNATION (USE WHEN APPLICABLE!)	IDENT			PROB	FILE STATUS	FILE ADDRESS	RETPD	PARM	CORE REGION	TIME	PLOTS	COMMENTS (NAME)	S C NO
		DIST	UNIT	DIST	UNIT			DIST	GROUP	BATCH										
																				7275

USER INSTRUCTIONS

D.3 BRIDGE JOB CONTROL (shown above) for STRUDL and STRUBAG (Form DS-D149) Required one-sheet cover page for initial batch submittals.

- Columns 1 - 4 Program name, enter STRU
- 6 - 7 Leave blank for Structure Design routing; otherwise, enter print location.
- 9 - 24 Enter REQUIRED accounting information.
- 25 - 33 Enter optional accounting information.
- 35 - 42 Enter Required identification (district-group-batch-prob).
- 48 - 53 Enter File Address (REQUIRED). Use a unique name (up to 6 alpha or numeric characters)
- 55 - 56 Not Used
- 58 PARM 0, blank Write STRUDL to a VM file AND EXECUTE STRUDL.
- 1 Write STRUDL to VM only.
- 6 Write STRUBAG and STRUDL to a VM file and EXECUTE STRUDL.
- 8 Write STRUBAG and STRUDL to a VM file only.
- 60 - 62 Enter REGION in Kilobytes.
- If left blank and PARM 0, blank Default Region = 350
- 1 Default Region = 350
- 6 Default Region = 960
- 8 Default Region = 256
- 64 - 65 Enter estimated max. CPU time in min. (Default = 5 minutes)
- 67 Plots Y or 1 - 30 inch blank paper
- 2 - 30 inch grid paper
- 3 - 12 inch blank paper
- 4 - 12 inch grid paper
- For no plot, leave blank
- 69 - 76 Enter comments (Name).

For questions see Structural and Seismic Anal. Sect., 445-1439.

D.4 STRUDL and STRUBAG VM FILES

VM FILES for STRUDL and STRUBAG input data created from batch submittals use the six character file address (Bridge Job Control Form) as the filename.

The VM FILES are directed to the users reader and must be received by the user at logon time. Files are then retained in the user account with no expiration date until deleted by the user.

D.5 Execution and Printing of STRUDL and STRUBAG VM FILES

Execution and printing of VM FILES is accomplished using either the VM/CMS system in real-time or in a batch mode on the Teale mainframe. STRUBAG runs in real time, STRUDL executes as a batch job. (See "STRUCTURES DESIGN VM/CMS SYSTEM USERS GUIDE" in the Computer Manual).