NCPI
NATIONAL CLAY PIPE INSTITUTE
QUALITY • RESEARCH

TECH NOTES

NCPI "TOOL BOX"

NCPI 'TOOL BOX" is a DOS formatted 3.5 inch disk containing four NCPI developed computer programs to aid engineers.

The 'TOOL BOX" Contains:

"EASE" is a trench load design program incorporating Marston's equations and the latest ASTM requirements. The program allows the design engineer to enter specific design criteria for a pipe installation and select a trench load design which will provide an appropriate design safety factor.

"BEDCOST" provides the opportunity to compare the cost of different bedding materials when placed in accordance with ASTM standards for VCP or alternate materials.

"HYFLOW" utilizes Manning's open channel flow equations to determine hydraulic solutions. By entering the desired flow rate and slope, the recommended pipe diameter with depth of flow is instantly displayed. Solutions may also be obtained in metric units.

"LOWCOST" uses historic inflation and interest rate ratios in life cycle analysis to determine the life cycle savings, set aside requirements and future replacement costs of alternative products with different useful life expectancies.

☐ **NCPI TOOL BOX**

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(✓) Just check it - - - FAX it - - - and its yours

NAME _____

COMPANY _____

ADDRESS _____

_____

SEND TO:

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Because of space limitations in "TECH NOTES", a complete discussion of technical subjects is often not possible. For Further information, write the NCPI Director of Technical Services, P.O. Box 759, Lake Geneva, WI 53147. Permission to copy is granted provided that the entire piece is reproduced including references and source.