TO:

SUPERSEDED BY EB 99-025 EFFECTIVE 3/17/99

ENGINEERING INSTRUCTION

NEW YORK STATE DEPARTMENT OF TRANSPORTATION

SUBJECT: Revision to pile Driving Criteria Form

Subject Code: 727-1-629

Distribution: 30 Main Office 32 Regions 34 Special

APPROVED:

K. C. KEATING, Deputy Chief Engineer (Structures)

Code: 86-41

Date: 12/16/86

Supersedes: EI 74-108

The Form BD 138 (5/74) "Pile and Driving Equipment Data" has been revised. The revised Form BD 138 (10/86) is being distributed in response to consistent inaccuracies in submittals and a change in our need for additional information. The form can be used for Contracts with multiple structures and will provide more instruction in it's use.

This Instruction takes effect immediately. An initial supply of Form BD 138 (10/86) is available in the Region's stock rooms. A sample copy of Form BD 138 (10/86) is attached to this instruction.

This Engineering Instruction replaces the Form BD 138 (5/74) issued under EI 74-108.

C206-41

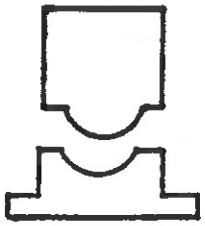
BD 138 (10/86)
NYSDOT

PILE AND DRIVING EQUIPMENT DATA

P.I.N.: _____ Contract No.: _____ Pile Driving Contractor or Subcontractor (Piles Driven By):

Project: _____ _____

_____ County: _____ _____



HAMMER (only 1 hammer per. shaft)

Manufacturer: _____ Model: _____

Type: _____ Serial No.: _____

Rated Energy: _____ @ _____ Length of Stroke

HAMMER CUSHION (see back for values)

Material(s): _____ Area: _____

Thickness(es): _____

Modulus of Elasticity - E: _____ (K.S.I.)

Coefficient of Restitution - e: _____

PILE CAP — Helmet / Bonnet / Anvil Block / Drivehead — Weight: _____

PILE CUSHION

Material: _____ Area: _____

Thickness: _____

Modulus of Elasticity - E: _____ (K.S.I.)

Coefficient of Restitution - e: _____

PILE

Structure Name:				
Substructure (See back):				
Pile Information (See Back):				
Material:				
Weight / Ft.:				
Length in Leads:				
Design Capacity:				
Splice Description:				
Tip Treatment Description:				

DISTRIBUTION
ONE COPY EACH TO:

- ☐ DEPUTY CHIEF ENGINEER (Structures)
- ☐ DIRECTOR, SOIL MECHANICS BUREAU
- ☐ REGIONAL DIRECTOR
- ☐ ENGINEER IN CHARGE

NOTE. If mandrel is used to drive the pile, attach separate manufacturer's detail sheet(s) including weight and dimensions.

Submitted By: _____ Date: _____

CUSHION INFORMATION
(Data as used by NYSDOT)

Material	Modulus of Elasticity E (KSI)	Coefficient of Restitution e (≤ 1)
Aluminum	10,000	.8
Ascon	225	.7
Blue Nylon (MC-904)	350	.92
Conbest	560	.8
Duracush	70	.82
Forbon	800	.85
Fosterlon	760	.85
Force Ten	400	.8
Hamortex	250	.77
Micarta	450	.8
Plywood	25 - 100	.5
Urethane	350	.72
Wire Rope	300 - 400	.8

SUBSTRUCTURE

Give designation of corresponding abutment or pier if pile size or length varies from one substructure to another.

PILE INFORMATION

Include: Pile type, size, thickness, taper

Examples: CIP 12 x .188
HP 10 x 42
10 ft N12 and 12 ft F taper (.14 in./ft) 7 gauge