



GENERAL NOTES

DESIGN SPECIFICATION:
 This Standard Drawing conforms to "Standard Specifications for Highway Bridges" adopted by the American Association of State Highway and Transportation Officials, 1992, including the 1993 Interim specifications and the ODOT Bridge Design Manual.

DESIGN LOADING: MS18 and the Alternate Military Loading.

DESIGN DATA:
CONCRETE CLASS "S" - Compressive Strength 31 MPa
REINFORCING STEEL- ASTM A615M, A616M, or A617M Grade 400, with a minimum yield strength of 400 MPa and shall be epoxy coated.
SPIRAL REINFORCEMENT may be plain bars, ASTM A82M or A615M and shall be epoxy coated.
ITEM SPECIAL- PILE ENCASEMENT: All steel H piles shall be encased or galvanized as shown.

The encasement option shall consist of a pipe filled with either class C or class S concrete as per 507.06.

The galvanizing option shall be as per 711.02. The galvanizing coating minimum thickness shall be 100 micrometers. Gouges, scrapes,

GENERAL NOTES (CONTINUED)

scratches or other surface imperfections caused by handling or driving of the H pile shall be repaired to the satisfaction of the Engineer. Additional galvanizing length beyond plan dimensions shall be at the contractor's expense.

The length of pile encasement shall be measured in meters along the length of the pile. This item shall include all work and materials necessary to furnish the required encasement.

Payment for pile encasement or galvanizing will be made at the contract unit price per linear meter as Item Special, Pile Encasement.

FALSEWORK SUPPORT: Attachment of the falsework support members to pier piles will be permitted if the attachment is made to the portion of pile encased in the pier cap. There shall be no eccentric loads produced in the piles by attached falsework support members.

DESIGN INSTRUCTIONS

GENERAL: This drawing provides general construction details. The project plans for each structure shall show Stations, Span Lengths, Roadway Width, Skew, Curve and Super-elevation (if any) Elevations, Superstructure Details, Estimated Quantities, Reinforcing Steel List, Pile Encasement and other necessary details and special notes.

REINFORCING STEEL: The longitudinal No.35M, No.30M and No.15M bars, at the option of the Contractor, may be furnished either

DESIGN INSTRUCTIONS

In one length as shown hereon, or spliced. If the splice option is chosen, the No.35M bar shall be lapped 2800 mm, the No.30M bar shall be lapped 2450 mm and the No.15M bar shall be lapped 900 mm. A staggered lap splice arrangement should be used.

Payment for reinforcing shall be the plan quantity. Do not adjust the plan to include bar weights furnished to provide lap splices.

PILE TYPE AND SIZE: The pile type and size shall be specified on the project plans. For example a 400 mm diameter cast-in-place reinforced concrete pile as shown in section D-D or a HP 310 x 79 pile.

PILE DESIGN LOADS: The pile design loads and estimated pay lengths shall be given in the Structure General Notes. Pile spacing shall not exceed 2300 mm.

SLAB THICKNESS: See Slab Standard Drawing for value of "T".

LIMITS OF DESIGN: This Standard Drawing should not be used for any bridge in which the following limits are exceeded.

(a) Skew angle equals 35°.
 (b) Exposed pile height equals 6000 mm (consider scour depths and soil density)
 (c) To support a continuous span arrangement greater than 17 000 mm.
 (d) Slope embankment, debris or ice flow loads which would cause appreciable horizontal force against the pile bent.
 (e) Rock or other firm material would prevent driving piles at least 3000 mm below finished ground line.

Bar Size is Indicated in the bar mark. The first letter identifies the bar location; next two digits and letter indicates the metric bar size designation; and the remaining digits its sequence number.

Example: P15M01
 a) P = Location of the bar in the structure
 b) 15M = Metric bar size designation
 c) 01 = Sequence

Legend:
 I.R. = Inside Radius
 X = Out to Out
 R = Radius
 T = Slab Thickness

DESIGN AGENCY	BUREAU OF BRIDGES AND STRUCTURAL DESIGN
STATE OF OHIO DEPARTMENT OF TRANSPORTATION	DATE 12-19-94
REVIEWED	LMW
CHECKED	SAM
PREPARED	JAM
DRAWN	GFJ
REVISIONS	CPP-2-94M
STANDARD	FOR CONTINUOUS SLAB BRIDGES-METRIC
1/1	