



Illinois Department of Transportation

PASSED July 18, 1984

Engineer of Bridges and Traffic Structures

APPROVED July 18, 1984

Engineer of Design

The lengths of #4 bars used in the approach shoulder pavement shall be as required to accommodate the length, width and skew of the slab.

Class X concrete or precast concrete shall be used for the inlet. Precast concrete shall be in accordance with Sections 503.01 thru 503.05 of the Standard Specifications except that the concrete strength shall be 4000 p.s.i. after 28 days.

All exposed edges of the inlet, except the upper perimeter, shall be beveled.

Shop drawings will not be required for precast Inlet Boxes.

A 3" deep CA-12 bedding conforming to Article 704.04 Quality or better shall be provided under full length and width of precast units, and all voids around the pipe drain entrance, both inside and outside, shall be sealed with mortar.

The grating shall seat firmly in the frame and steel grates shall be secured to the frame with a locking device as shown. Cast grates will not require the locking device.

Steel grating and frames shall conform to Article 710.04 of the Standard Specifications and shall be galvanized to AASHTO Specification M111 after fabrication.

Cast grating and frames shall conform to Article 710.17 of the Standard Specifications. Cast grating and frames shall not be galvanized.

Pipe drains shall be installed, measured and paid for in accordance with Section 607 of the Standard Specifications, except sand bedding will not be required.

Metal End Sections shall be installed, measured and paid for in accordance with Section 511 of the Standard Specifications.

Bridge approach shoulder pavement will be measured in place and paid for in square yards as P.C. CONCRETE BRIDGE APPROACH SHOULDER PAVEMENT which shall include the cost of subgrade preparation, expansion anchor, ties, reinforcement and joint fillers. In computing the area for payment, a deduction will be made for the area displaced by the inlet. (1.2 Sq. Yds. Type C; 1.7 Sq. Yds. Type D; 0.6 Sq. Yds. Type B)

The contract unit price "Each" for TYPE (B, C or D) INLET BOX STANDARD 2324, in place, shall include the frame and grating, class X or precast concrete, reinforcement bars, excavation, bedding when required, and compacted backfill.

The contract unit price "Each" for CONCRETE THRUST BLOCKS, in place, shall include excavation and compacted backfilling.

Material Required for One Type B Inlet Box

Bar	No.	Size	Length
u	4	#4	8'-5"
u ₂	3	#4	8'-0"
u ₆	4	#4	6'-2"

Concrete - Class X or Precast Cu. Yds. 0.4
Reinf. Bars Lbs. 60
Grating Sq. Ft. 3.7

Material Required for One Type C Inlet Box

Bar	No.	Size	Length
u	6	#4	8'-5"
u ₂	3	#4	10'-1"
u ₄	4	#4	8'-4"

Concrete - Class X or Precast Cu. Yds. 0.9
Reinf. Bars Lbs. 80
Grating Sq. Ft. 7.3

Material Required for One Type D Inlet Box

Bar	No.	Size	Length
u	8	#4	8'-5"
u ₂	3	#4	12'-2"
u ₆	4	#4	10'-4"

Concrete - Class X or Precast Cu. Yds. 1.2
Reinf. Bars Lbs. 100
Grating Sq. Ft. 11.0

DESIGNED John Uehle
CHECKED Brad Williams
DRAWN John Uehle
CHECKED Brad Williams

EXAMINED _____ DATE _____
ENGINEER OF STRUCTURAL SERVICES

PASSED _____
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION SHEET (STANDARD 2324-6)
STRUCTURE NO. 060-0027 & 0028

SHEET NO. 6 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TO	60-11B-1	MADISON	10	8

CONTRACT NO. 76E25
ILLINOIS FED. AID PROJECT

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