

NOTE: Void omitted on 12" beams.

drain

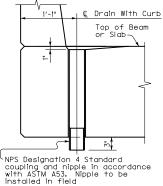
VOID DRAIN DETAIL

Locate two drains at each end of each void. Provide 1"Ø drains of a type approved by the Division of Materials.

Diaphragms may be omitted if void is cut to allow drain to be encased with a minimum 2" of concrete. Provide drains on both sides of bridge

SECTION THRU BEAM

... ()



of pipe and fittings in the price of beam. _Ç Drain Gutter Line

with normal crown and on low side only for superelevated bridges. Space drains at maximum 12′-6″ on centers with a minimum

of one placed each gutter line per span. Omit drains when span crosses over a highway or railroad. Include the cost

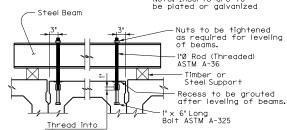
TOP VIEW OF DRAIN DRAIN DETAILS

(For Spans With Curbs)

SECTION THRU DRAIN **EXTERIOR BOX BEAM**

(Showing coupling in barrier)

Note: Inserts are to



of exterior beam. 3/8"

NOTE: Omit shear key on exterior face

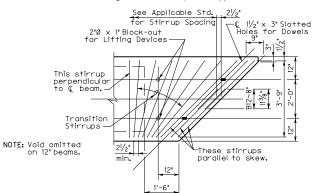
SHEAR KEY DETAIL

for Stirrup Spacing © 1½" x 3" Slotted Holes for Dowels 2"Ø x 1" Block-out for Lifting Devices This stirrup perpendicular to C beam. -Transition Stirrups 21/2" These stirrups parallel to skew. 41/2" 1'-6"

See Applicable Std.

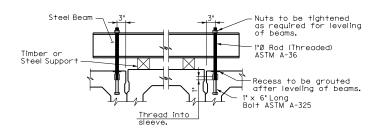
TYPICAL SKEWED END FOR BEAMS OVER 50 FEET

(Right Skew Shown, Left Opposite Hand)



TYPICAL SKEWED END FOR BEAMS 50 FEET OR LESS

(Right Skew Shown, Left Opposite Hand)



LEVELING DEVICE DETAILS

Locate inserts at the center of beams up to 50 ft. and at diaphragm locations of beams over 50 ft. Include the cost of materials and labor involved in leveling beams in the price for beams. Submit alternate leveling devices to the Division of Bridge Design for approval.

KENTUCKY DEPARTMENT OF HIGHWAYS

BOX BEAM MISCELLANEOUS **DETAILS**

STANDARD DRAWING NO. BDP-003-03

SUBMITTED Allo W Frank
DIRECTOR DIVISION OF BRIDGE DESIGN
APPROVED Machine Mathematical State (MIGHWA/ENGINEER

11-21-07 11-21-07 DATE