

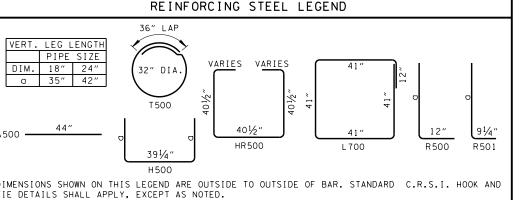
REV. 5-27-01: CHANGED PAY ITEM IN GENERAL NOTE ()

☐ REV. 7-29-02: CHANGED ASTM SPECIFICATION IN GENERAL NOTE ①

REV. 8-01-12: REVISED SPRING DRAIN FOR COMPLIANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 4TH EDITION WITH INTERIMS. REVISED REINFORCING, GENERAL NOTES, LEGEND AND ADDITIONAL MISC. DRAFTING EDITS.

SPRING DRAIN BOX DIMENSIONS				FOR DESIGN USE ONLY
INSIDE DIAMETER (D) OF PIPE (INCHES)	PIPE WALL THICKNESS (INCHES)	DIAMETER OF CUT-OUT HOLES (INCHES)	SPRING DRAIN HEIGHT (INCHES)	SPRING DRAIN MINIMUM DESIGN DEPTH (FEET)
18	21/2	25	49	3.13
24	3	32	56	3.67

- 1) CUT-OUT HOLES BASED ON REINFORCED CONCRETE PIPE WITH WALL
- 2) ALL FLEXIBLE PIPE MATERIALS REQUIRE GASKET. SEE STANDARD
- (3) CUT-OUT HOLES FOR PRECAST STRUCTURES TO BE FORMED IN ORDER TO OBTAIN A SMOOTH EDGED HOLE. SCORED OR ETCHED HOLES WITH REINFORCING STEEL LEFT UNCUT WILL NOT BE
- (A) DRAWING TO BE USED FOR ALL CAST-IN-PLACE NO. 1 CONCRETE SPRING DRAIN BOXES AND ALL PRECAST NO. 1 CONCRETE SPRING DRAIN BOXES. SEE STANDARD DRAWING D-CB-99 FOR ADDITIONAL CONSTRUCTION NOTES & DETAILS.
- (B) EMBANKMENT OVER THIS STRUCTURE MAY BE PLACED AT A DEPTH UP TO 50 FEET. IF STRUCTURE IS LOCATED WITHIN
- C CAST-IN-PLACE CONCRETE SPRING DRAIN BOXES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTION 611 AND/OR SPECIAL PROVISIONS UNLESS SUPERSEDED BY THIS DRAWING. THE CONTRACTOR MAY, WITH PERMISSION FROM THE ENGINEER, SUBSTITUTE PRECAST SPRING DRAIN BOXES FOR CAST-IN-PLACE SPRING DRAIN BOXES PROVIDED THAT ALL PRECAST ELEMENTS MEET ASTM C913 (CURRENT EDITION) UNLESS SUPERSEDED BY
- (E) PRECAST SPRING DRAIN BOX UNITS WHICH ARE DAMAGED DURING SHIPMENT OR INSTALLATION WILL BE REJECTED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE DAMAGED SPRING DRAIN BOX UNITS AT HIS OWN
- $(\mathsf{F})$  APPROPRIATE SIZING AND LOCATION OF LIFTING DEVICES SHALL BE THE RESPONSIBILITY OF THE FABRICATOR.
- G THE CONTRACTOR IS TO PATCH ALL LIFTING DEVICE HOLES WITH GROUT AND PLACE A MINIMUM OF ONE (1) INCH OF
- (H) ALTERNATIVE JOINT DETAILS MAY BE ACCEPTABLE. SEE STANDARD DRAWING D-CB-99 FOR ADDITIONAL DETAILS.
- I SEE ROADWAY PLANS DRAINAGE TABULATION FOR PIPE OUTLET ELEVATIONS. IF NEEDED, INVERT ELEVATIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER IN ORDER TO ACCOMMODATE OUTLET PIPES.



MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATIO

STANDARD 32" × 32" SQUARE CONCRETE NO. 1 SPRING DRAIN BOX

D-SDS-1 4-15-98