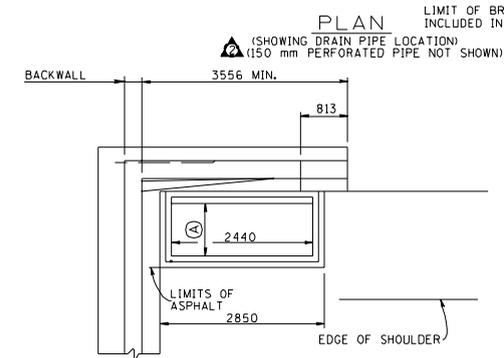
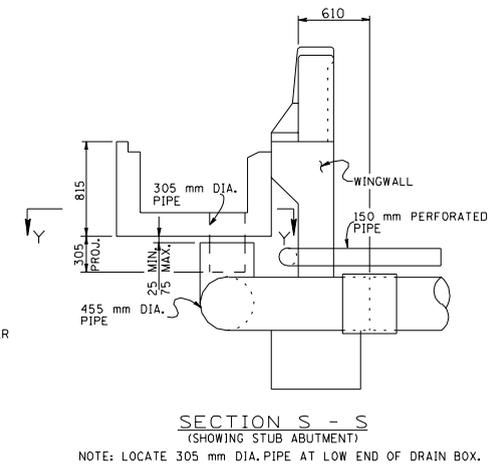
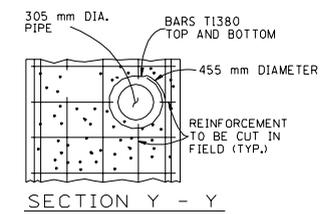
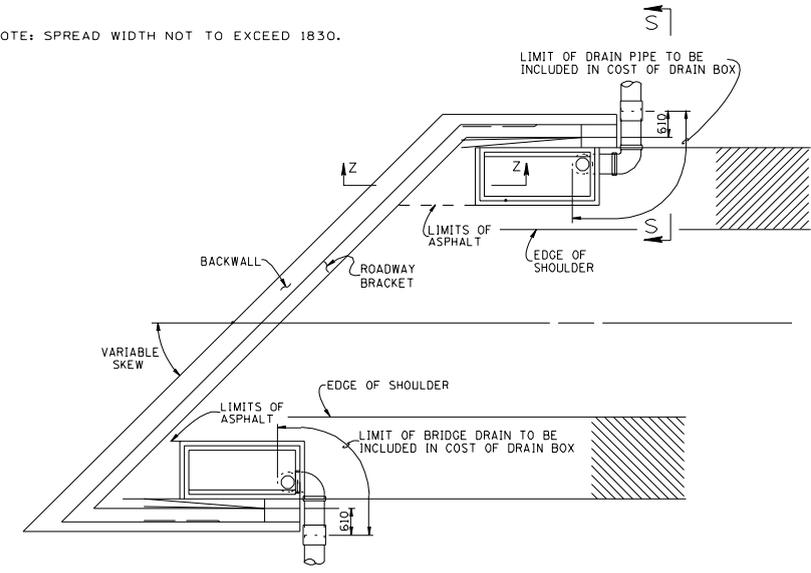
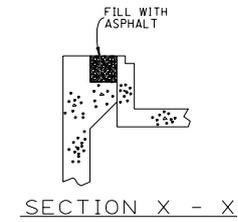
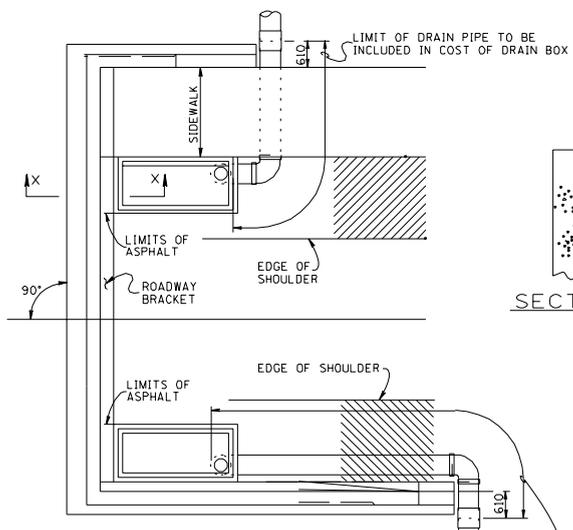
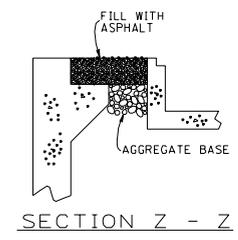
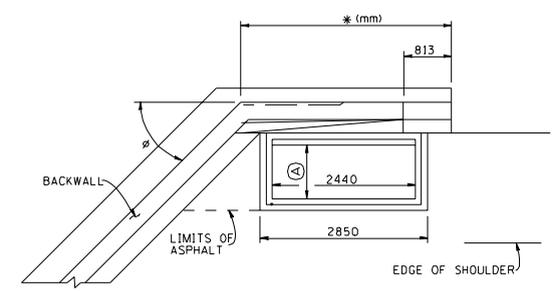


PROJECT NO.	YEAR	SHEET NO.	
	1996		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	6-10-96	BRB	NEW METRIC STANDARD
2	5-21-99	CMH	CORRECTED SECTION ARROWS AND REVISED WINGWALL DIMENSIONS

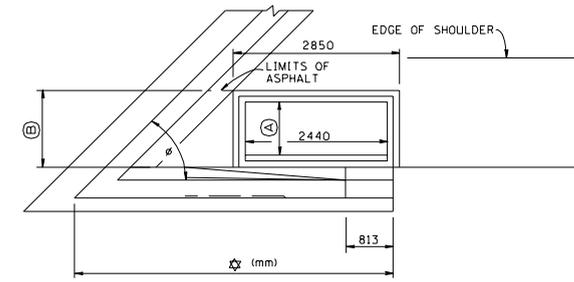


- (A) 305 mm FOR 610 x 2620 DRAIN BOX
- 915 mm FOR 1220 x 2620 DRAIN BOX

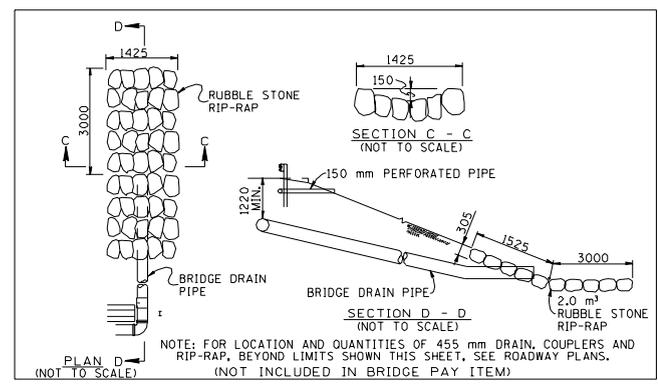


- (A) 305 mm FOR 610 x 2620 DRAIN BOX
- 915 mm FOR 1220 x 2620 DRAIN BOX

MINIMUM WING LENGTHS FOR DRAIN PLACEMENT



- (610 x 2620) $[1245 / \tan \phi] + 2743 + [(ROADWAY BRACKET (mm) + BACKWALL (mm)) / \sin \phi] = *$
- (1220 x 2620) $[1855 / \tan \phi] + 2743 + [(ROADWAY BRACKET (mm) + BACKWALL (mm)) / \sin \phi] = *$



- PART PLAN
- (A) 305 mm FOR 610 x 2620 DRAIN BOX
 - 915 mm FOR 1220 x 2620 DRAIN BOX
 - (B) 710 mm FOR 610 x 2620 DRAIN BOX
 - 1320 mm FOR 1220 x 2620 DRAIN BOX

NOTE TO DETAILER: FOR FIGURING WING LENGTHS USE THE GREATER VALUE PRODUCED BY THE METHOD FOUND IN STRUCTURE'S MEMORANDUM MISCELLANEOUS ABUTMENT DETAILS OR THE MINIMUM WING LENGTH FOR DRAIN PLACEMENT FORMULAS FOUND ON THIS SHEET.

NOTE: WINGWALLS PER ABUTMENT SHOULD BE THE SAME LENGTH.

ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

MINOR REVISION - FHWA APPROVAL NOT REQUIRED

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

BRIDGE END DRAIN DETAILS
610 x 2620
1220 x 2620 WITHOUT PAVEMENT AT BRIDGE ENDS
1996

DESIGNED BY G.M. HILES
DRAWN BY K.M. FRANKENFIELD
SUPERVISED BY G.M. HILES
CHECKED BY _____

DATE 7-93
DATE 7-93
DATE _____
DATE _____

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

