

PROJECT NO.	YEAR	SHEET NO.	
	2006		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION

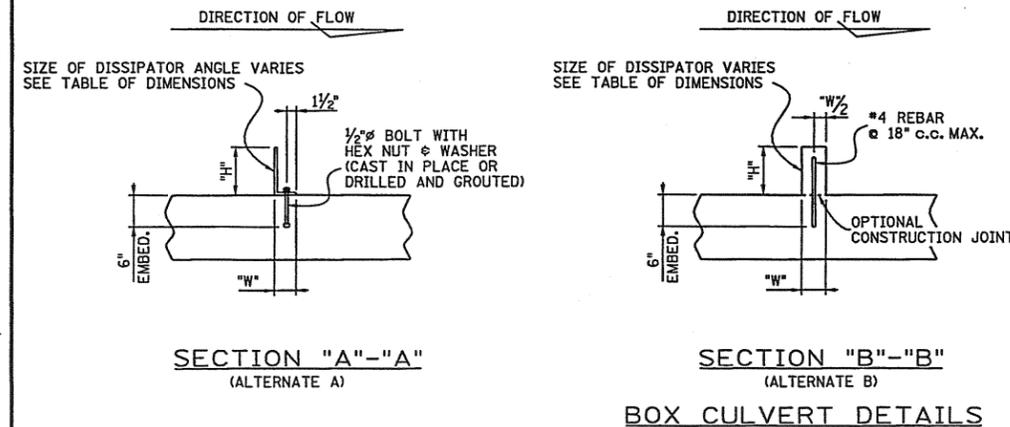
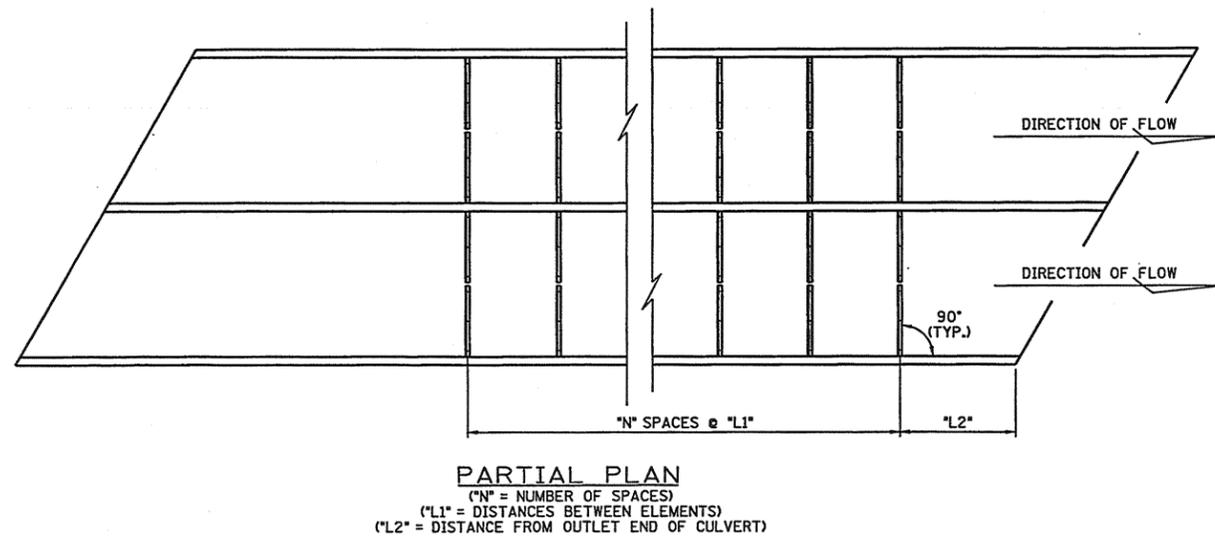
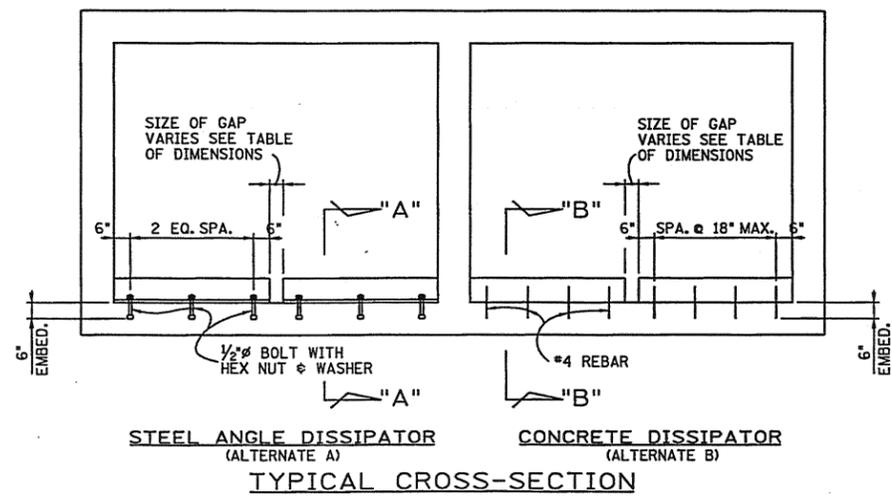
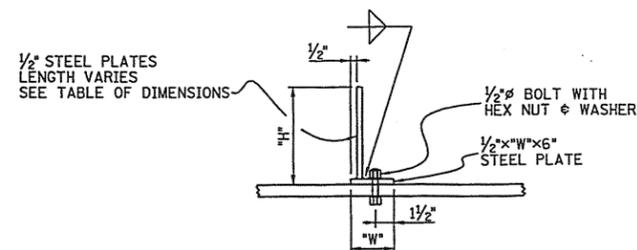
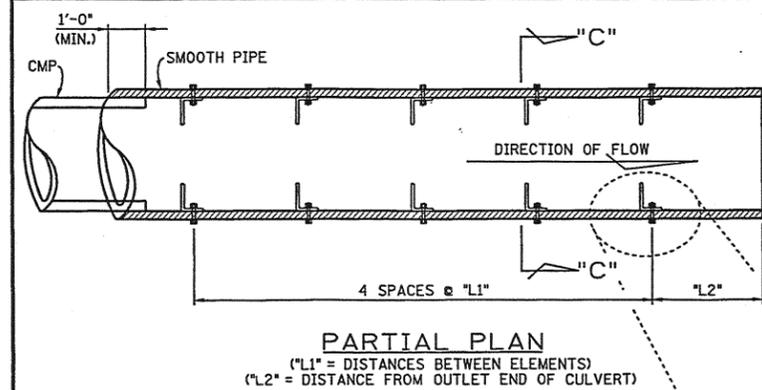


TABLE OF DIMENSIONS

TYPE	"H" (IN.)	"W" (IN.)	GAP (IN.)
STEEL ANGLE / CONCRETE	3	4	3
STEEL ANGLE / CONCRETE	4	4	3
STEEL ANGLE / CONCRETE	5	4	3
STEEL ANGLE / CONCRETE	6	4	3
STEEL ANGLE / CONCRETE	7	4	4
STEEL ANGLE / CONCRETE	8	4	4
STEEL ANGLE / CONCRETE	9	4	5
CONCRETE	10	6	5
CONCRETE	11	6	6
CONCRETE	12	6	6
CONCRETE	13	8	7
CONCRETE	14	8	7
CONCRETE	15	8	8



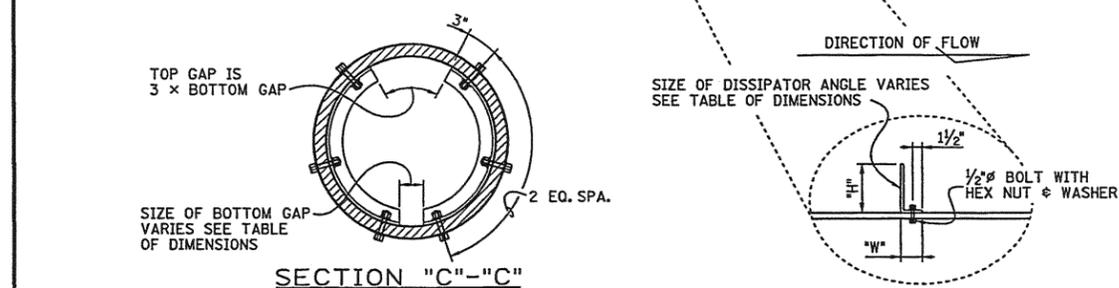
ALTERNATE STEEL PLATE CONNECTION

TABLE OF DIMENSIONS

TYPE	"H" (IN.)	"W" (IN.)	BOTTOM GAP (IN.)
STEEL ANGLE / PLATE	3	4	3
STEEL ANGLE / PLATE	4	4	3
STEEL ANGLE / PLATE	5	4	4
STEEL ANGLE / PLATE	6	4	4
STEEL ANGLE / PLATE	7	4	6
STEEL ANGLE / PLATE	8	4	6

GENERAL NOTES:

- 1) ALL ANGLES AND ANCHORAGE HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM-123. COST TO BE INCLUDED IN UNIT PRICE OF CULVERT.
- 2) COST OF MATERIALS, LABOR AND ANY INCIDENTALS FOR ENERGY DISSIPATOR TO BE INCLUDED IN UNIT PRICE OF CULVERT.
- 3) ALL STEEL ANGLES (ASTM A992) AND PLATES (ASTM A709) SHALL BE AASHTO M270 GRADE 36.
- 4) THE CONTRACTOR MAY USE ALTERNATE A OR B ON THE BOX CULVERT DETAILS
- 5) ALL WELDING SHALL BE COMPLETED PRIOR TO BEING GALVANIZED.
- 6) NOTE: IF A CMP IS USED, A SMOOTH PIPE EXTENSION SHALL BE USED FOR THE DISSIPATOR. OTHERWISE, DISSIPATOR SHALL BE CONNECTED DIRECTLY TO CONCRETE PIPE.
- 7) THE SIZE OF THE HEIGHT OF THE DISSIPATOR, AND DIMENSIONS "L1" AND "L2" SHALL BE IN ACCORDANCE WITH THE CONTRACT PLANS.



PIPE CULVERT DETAILS

DESIGNED BY: J.S. HASTINGS DATE: 8-06  
 DRAWN BY: K.L. FRANKENFIELD DATE: 8-06  
 SUPERVISED BY: HASTINGS & ZIRKLE DATE: 8-06  
 CHECKED BY: DATE:

CORRECT *Edward P. Wasserman*  
 ENGINEER OF STRUCTURES