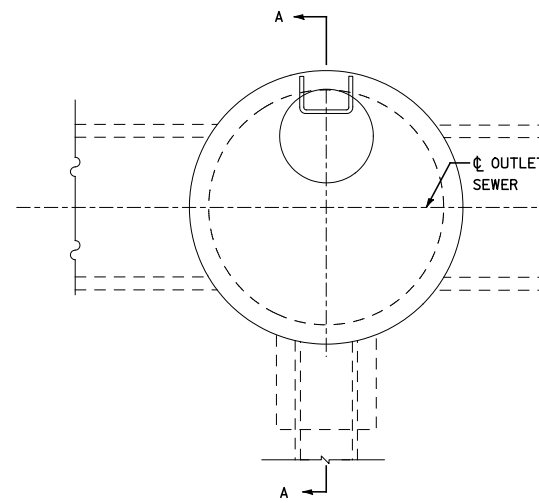


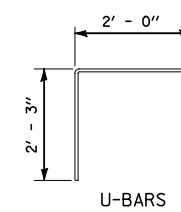
WALLS TO MEET
ASTM C-478

THE MINIMUM STRENGTH OF THE CONCRETE IN THE BASE AND RISER SECTIONS SHALL BE 4000 P.S.I. AFTER 28 DAYS. THE MINIMUM WALL THICKNESS SHALL BE ONE-TWELFTH OF THE INTERNAL DIAMETER OF THE RISER. THE CIRCUMFERENTIAL REINFORCEMENT IN BASE SECTIONS AND RISERS MAY CONSIST OF EITHER ONE OR TWO LINES OF STEEL. THE TOTAL AREA OF STEEL PER VERTICAL FOOT SHALL NOT BE LESS THAN .0025 TIMES THE INSIDE DIAMETER IN INCHES. BASE SLABS OR FLOORS SHALL BE REINFORCED WITH A LAYER OF STEEL WITH A MINIMUM AREA OF 0.12 IN. SQUARED/LINEAR FOOT IN BOTH DIRECTIONS.

PERFORATED INLET DETAIL

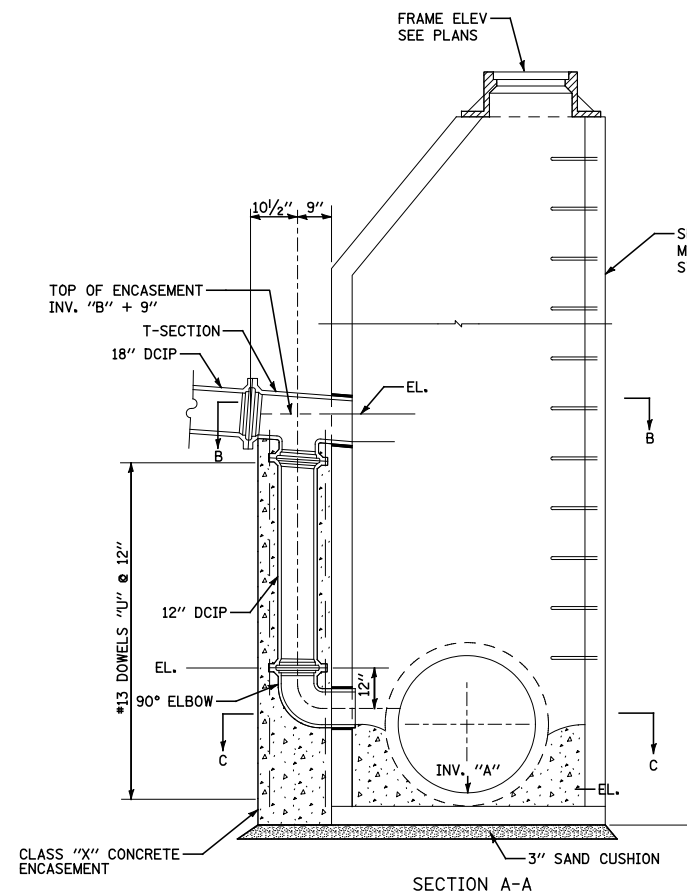


PLAN
FOR LOCATION SEE DRAINAGE PLANS

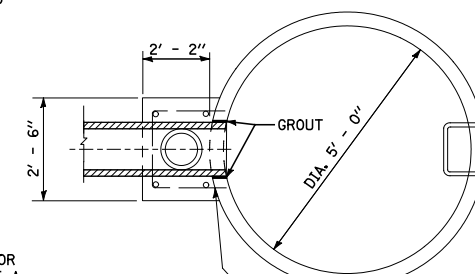


U-BARS

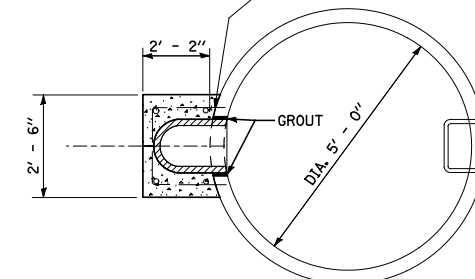
ENCASEMENT DETAILS	
DROP M.H. LOCATION STA., OFFSET	(366) 816+74.63 45.24 RT
INV. "A"	698.96 24"
INLET PIPE	
INV. "B"	706.00 18"
INV. "C"	
A	
B	
"V" BAR LENGTH	
NO. OF "U" BARS	7
REINF. BARS	
CLASS "S1" CONC. CUBIC METER (CU. YD.)	1



SECTION A-A



SECTION B-B



SECTION C-C

TYPE A1-1 MANHOLE WITH 1 DROP AND DEPTH UP TO 10'
TYPE A1-2 MANHOLE WITH 1 DROP AND DEPTH FROM 10' TO 15'
TYPE A1-3 MANHOLE WITH 1 DROP AND DEPTH FROM 15' TO 20'
TYPE A1-4 MANHOLE WITH 1 DROP AND DEPTH OVER 20'

TYPE A2-1 MANHOLE WITH 2 DROPS AND DEPTH UP TO 10'
TYPE A2-2 MANHOLE WITH 2 DROPS AND DEPTH FROM 10' TO 15'
TYPE A2-3 MANHOLE WITH 2 DROPS AND DEPTH FROM 15' TO 20'
TYPE A2-4 MANHOLE WITH 2 DROPS AND DEPTH OVER 20'

DROP MANHOLE DETAILS

FILE NAME =	USER NAME = #USER#	DESIGNED PJO	REVISED - 06/20/2012
#FILEL#		DRAWN KES	REVISED -
	PLOT SCALE = #SCALE#	CHECKED JCM	REVISED -
	PLOT DATE = #DATE#	DATE 10/15/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS

SCALE: AS SHOWN SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	(112 & 113) WRS-5	DUPAGE	963	363
DD-03		CONTRACT NO. 60131		
ILLINOIS FED. AID PROJECT				