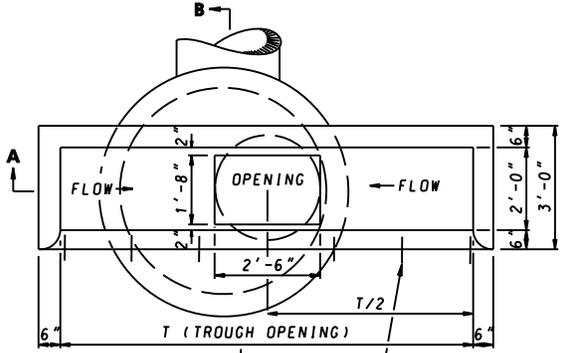
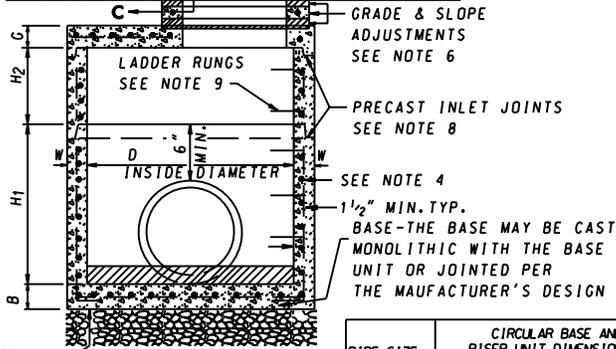
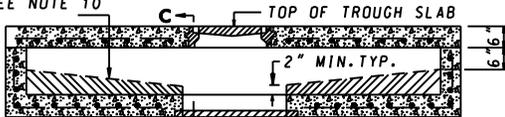


PRECAST CONCRETE TROUGH SLAB
(6" THICK)



PLAN

SLOPED TROUGH FLOOR
SEE NOTE 10



SECTION A-A
(SHOWN PRECAST)

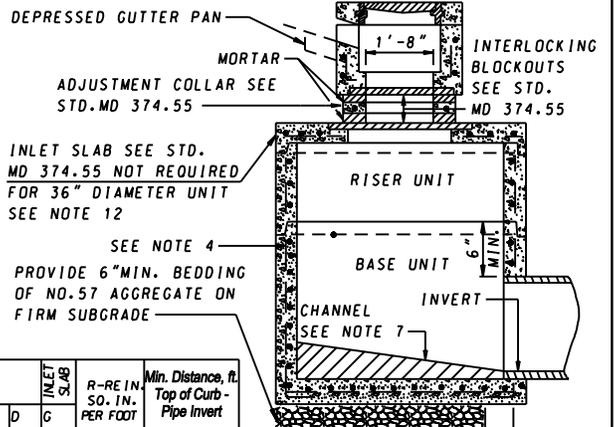
FOR SECTION C-C
AND D-D SEE
STD MD 374.55

INLET TYPE	T	L
COS-5	5'-0"	6'-0"
COS-10	10'-0"	11'-0"
COS-15	15'-0"	16'-0"
COS-20	20'-0"	21'-0"

PIPE SIZE MIN. TO MAX.	CIRCULAR BASE AND RISER UNIT DIMENSIONS						R-REIN. SO. IN. PER FOOT	Min. Distance, ft. Top of Curb - Pipe Invert
	H ₁ BASE	H ₂ RISER	W MIN.	B	D	G		
12"	2' TO 4'	1' TO 4'	4"	6"	36"	NOT REQ.	.09	3.84
15" TO 24"	3' TO 5'	1' TO 5'	5"	6"	48"	8"	.12	4.11-4.92
27" TO 33"	3' TO 6'	1' TO 6'	6"	6"	60"	8"	.15	5.19-5.73
36"	5' TO 6'	1' TO 6'	6"	6"	60"	8"	.15	6.00
42"	5' TO 7'	1' TO 7'	7"	6"	72"	8"	.18	6.55
48"	6' TO 7'	1' TO 7'	7"	6"	72"	8"	.18	7.09
54"	6' TO 8'	1' TO 8'	8"	8"	84"	8"	.21	7.63
60"	7' TO 8'	1' TO 8'	8"	8"	84"	8"	.21	8.17
66" TO 72"	8' TO 9'	1' TO 8'	9"	8"	96"	8"	.24	8.71-9.25
78" TO 84"	9' TO 10'	1' TO 8'	10"	8"	120"	8"	.27	9.80-10.34

NOTES

- THIS STANDARD TO BE USED WITH TYPE A COMBINATION CURB AND GUTTER ONLY.
- CURB OPENING SHALL NOT ENCRoACH ON CROSSWALK AREAS.
- CONCRETE TO BE MIX NO.6 (4500 PSI) FOR PRECAST UNITS AND CONCRETE MIX NO.3 (3500 PSI) FOR STRUCTURES CAST IN PLACE.
- INLET MAY BE PRECAST OR CAST IN PLACE. REINFORCEMENT SHALL BE EITHER WELDED WIRE FABRIC OR REINFORCING BARS AND SHALL CONFORM TO THE AREAS GIVEN UNDER R IN THE CHART ON THIS SHEET.
- ANGLE IRON AND SHEAR STUD CONNECTORS SHALL BE GALVANIZED AFTER WELDING IN ACCORDANCE WITH ASTM A 123. SEE STDS. MD 374.55 & 374.64.
- GRADE AND SLOPE ADJUSTMENTS SHALL BE COMPLETED IN THE FIELD USING PRECAST ADJUSTMENT COLLAR AND MORTAR.
- A CONCRETE OR BRICK CHANNEL WHICH SLOPES AT LEAST 2 IN./FT. TOWARD OUTLET SHALL BE PROVIDED IN THE FIELD.
- PRECAST INLET JOINTS- THE MANUFACTURER SHALL FORM MALE AND FEMALE ENDS OF JOINTS USING THEIR OWN DESIGN. THE JOINTS SHALL BE SEALED BY THE CONTRACTOR AND MADE WATERTIGHT USING THE MANUFACTURERS RECOMMENDED ASTM OR AASHTO APPROVED SEALANT.
- LADDER RUNGS SHALL BE PLACED IN VERTICAL ALIGNMENT AT 1'-3" C/C RUNG TYPE SHALL BE IN ACCORDANCE WITH STDS. MD 383.91 OR MD 383.92. RUNGS ARE INCIDENTAL TO THE COST OF THE INLET.
- SLOPED TROUGH FLOOR TO BE CONSTRUCTED IN THE FIELD USING BRICK OR CONCRETE AND USED ONLY WHEN ROAD GRADE IS 1.5% OR LESS. WHEN SLOPED TROUGH FLOOR IS USED, ROUGHEN PRECAST TROUGH FLOOR.
- MINIMUM DEPTH PAYMENT PER EACH SHALL BE 6'-2" MEASURED FROM THE PIPE INVERT TO THE TOP OF THE TROUGH SLAB. VERTICAL DEPTH PAYMENT PER LINEAR FOOT SHALL INCLUDE ALL DEPTHS IN EXCESS OF 6'-2" INCLUDING ALL APPURTENANCES.
- INLET SLAB NOT REQUIRED FOR 36" DIAMETER INLET. TROUGH SITS DIRECTLY ON THE TOP OF THE CIRCULAR UNIT. MORTAR AREA BETWEEN THE OUTSIDE WALLS OF THE TROUGH AND THE UNIT WALL.
- SEE STD. MD 374.64 FOR ALTERNATE PRECAST COS TROUGHS AND STD. MD 374.65 FOR DEPRESSED GUTTER PAN DETAILS.
- BASE UNIT WALLS TAPER PER MANUFACTURER'S DESIGN.



LAP SPLICE REINFORCEMENT 1'-0"
(TYP.) AROUND OUTSIDE CORNERS
AS SHOWN. (MONOLITHIC BASE ONLY)

SECTION B-B
(SHOWN PRECAST)

SPECIFICATION	CATEGORY CODE ITEMS	
APPROVED	<i>Kirk G. McCall</i> DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT	
	APPROVAL • SHA REVISIONS	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION
	APPROVAL 2-22-91	APPROVAL 1-2-91
	REVISED 08-03-10	REVISED 07-26-10
	REVISED	REVISED
	REVISED	REVISED

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
PRECAST OR CAST IN PLACE
CIRCULAR COS INLETS
5', 10', 15', & 20'

STANDARD NO.

MD 374.63