



NOTES:

1. HYDRANT MAY BE INSTALLED AS AN ALTERNATE TO THE AIR RELEASE VALVE.
2. MANHOLE COVER TO BE MARKED "WATER VALVE MAIN VAULT".
3. FOR CONNECTION TO 4" DUCTILE IRON PIPE, USE SERVICE SADDLE (FORD FC-202 OR SMITH-BLAIR 315). FOR CONNECTION TO 4"-30" HDPE PIPE, USE APPROVED ELECTROFUSION TAPPING SADDLE.
4. SUPPORTS FOR PIPES:
4" TO 16" PIPES "A" SECTION & 8" BRICK PIER:
20" TO 30" PIPES: 12" X 12" BRICK PIER;
36"+ PIPES: 12" WIDE REINF. CONC. CRADLE.
PROVIDE BOND BREAKER.
5. PLACE 1" PREMOLDED EXPANSION JOINT FILLER AROUND PIPE (TYP.) FOR CAST-IN-PLACE STRUCTURES.
6. PIPE 36" & LARGER - PROVIDE VERTICAL OUTLET, VALVE & BLIND FLANGE WITH GASKET. DRILL & TAP CENTER OF BLIND FLANGE & PROVIDE FORD FB500-4 CORPORATION WITH LA21-44 EIGHTH BEND OR APPROVED EQUAL.
7. CAST-IN-PLACE VAULT (SHOWN) OR PRECAST VAULT WITH DOGHOUSE OPENINGS (NOT SHOWN).
8. FOR CONNECTION TO 6" - 12" DUCTILE IRON PIPE, CONTRACTOR MAY INSTALL CORPORATION USING SERVICE SADDLE (FORD FC-202 OR SMITH-BLAIR 315). FOR CONNECTION TO 16" - 30" DUCTILE IRON PIPE, CONTRACTOR MAY INSTALL CORPORATION USING SERVICE SADDLE (FORD FC-202 OR SMITH-BLAIR 317).

TABLE 1	
PIPE DIAMETER	AIR RELEASE ASSEMBLY
4"	1" CORP. WITH TAPPING SADDLE/ GATE VALVE
6"	1" CORP./GATE VALVE
8"-12"	1.5" CORP./GATE VALVE
16"-30"	2" CORP./GATE VALVE
36"-48"	4" RESILIENT GATE VALVE, FL. x FL.
54"+	6" RESILIENT GATE VALVE, FL. x FL.



APPROVED: *[Signature]*
 HEAD, BUREAU OF WATER AND WASTEWATER
[Signature]
 DIRECTOR, DEPARTMENT OF PUBLIC WORKS

CITY OF BALTIMORE
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF WATER AND WASTEWATER
 STANDARD AIR RELEASE
 VALVE AND VAULT
 PRECAST AND CAST IN PLACE

ISSUED	REVISED	REVISED
3 / 2008		
STANDARD NO. BC 856.01		
SCALE: NONE	SHEET 1 OF 1	