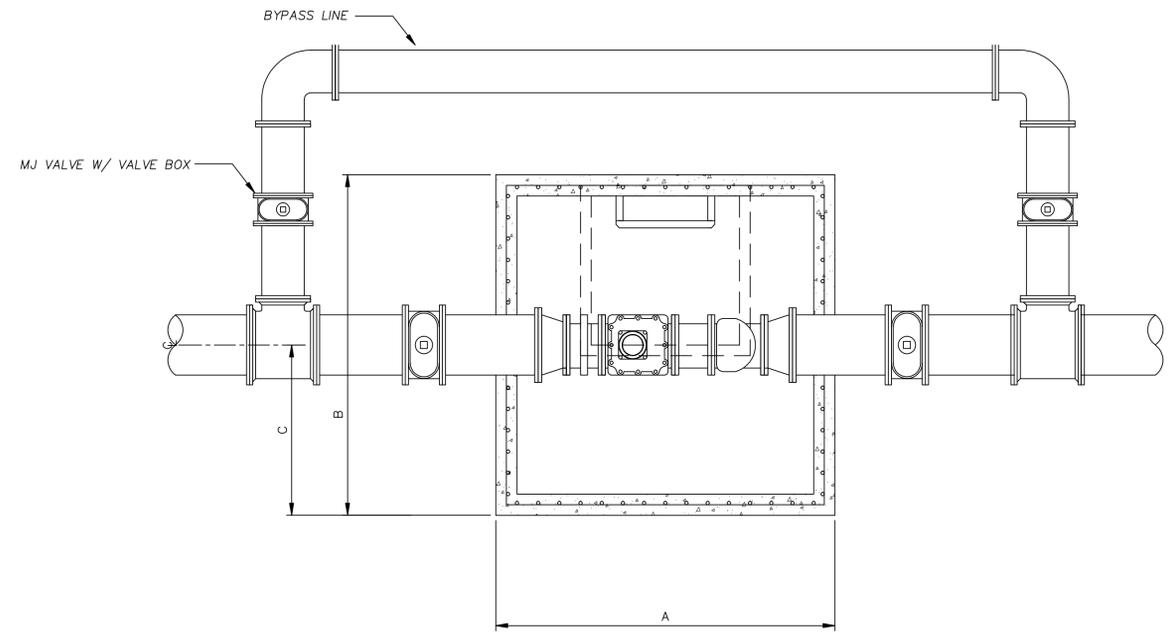
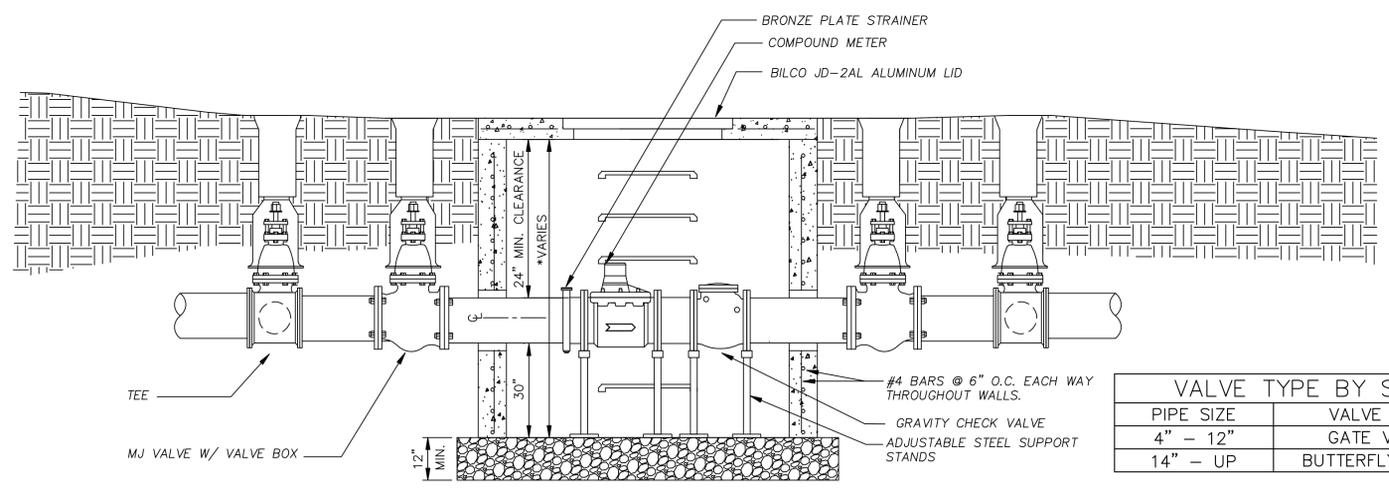


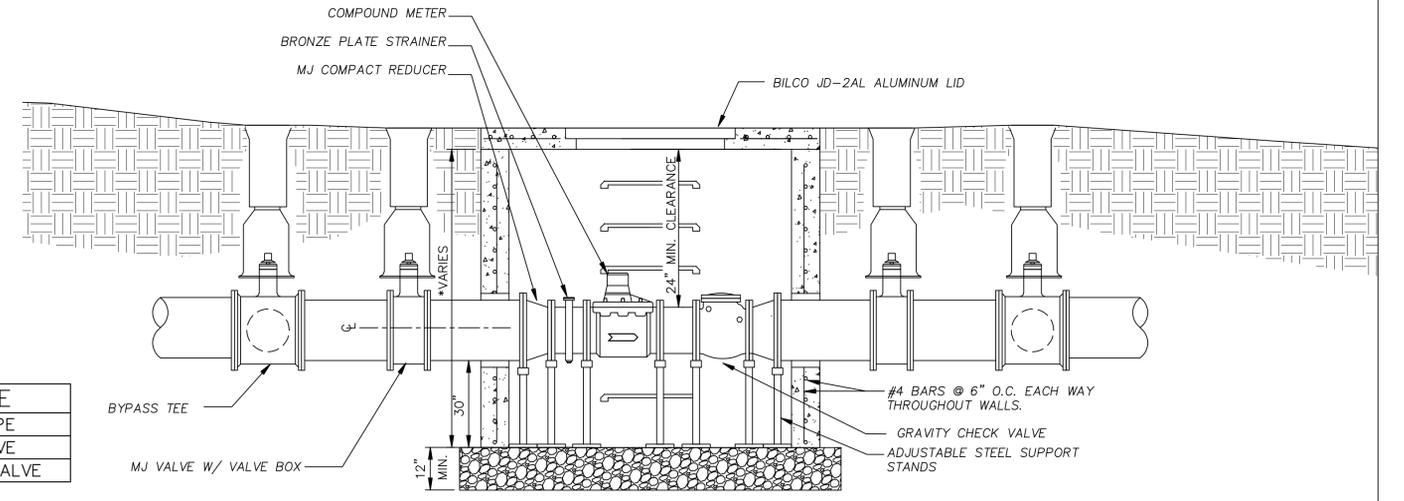
TYPE A METER VAULT (SECTION TOP VIEW)
NOT TO SCALE



TYPE B METER VAULT (SECTION TOP VIEW)
NOT TO SCALE



TYPE A METER VAULT (SECTION VIEW)
NOT TO SCALE



TYPE B METER VAULT (SECTION VIEW)
NOT TO SCALE

VALVE TYPE BY SIZE	
PIPE SIZE	VALVE TYPE
4" - 12"	GATE VALVE
14" - UP	BUTTERFLY VALVE

TYPE A VAULT DIMENSIONS					
LETTER	6" DIP	8" DIP	12" DIP	16" DIP	24" DIP
A	6'	8'	8'	10'	12'
B	5'	6'	8'	8'	8'
C	2'	3'	4'	4'	4'

TYPE B VAULT DIMENSIONS					
LETTER	8" X 6" REDUCED DIP	10" X 8" REDUCED DIP	12" X 10" REDUCED DIP	16" X 12" REDUCED DIP	24" X 16" REDUCED DIP
A	8'	10'	10'	12'	16'
B	6'	6'	8'	8'	8'
C	3'	3'	4'	4'	4'

* VAULT HEIGHT WILL VARY BASED ON SURFACE ELEVATION AND PIPE DEPTH. TOP OF VAULT SHALL BE FLUSH WITH GROUND SURFACE.

NOTE:

- ACCESS LID DOORS TO BE BILCO JD-2AL FOR NON-TRAFFIC APPLICATIONS AND JD-2AL H2O FOR TRAFFIC APPLICATIONS, OR APPROVED EQUAL. WHERE REQUIRED, A DUAL ACCESS DOOR WILL BE PERMITTED. REMOVABLE SQUARE KEY WRENCH SHALL BE PROVIDED TO THE CITY OF MANHATTAN UTILITIES DIVISION.
- VAULT WALLS AND TOP SHALL BE MANUFACTURED OF REINFORCED PRECAST CONCRETE. VAULT BASE SHALL BE CRUSHED GRAVEL. VAULTS SHALL BE MONARCH PRODUCTS COMPANY OR EQUIVALENT.
- BYPASS LINE IS THE SAME SIZE AS THE METER.
- METER SHALL BE BADGER WATER METER PER CITY OF MANHATTAN WATER METER SPECIFICATIONS.
- ALL DESIGN AND CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND DRAWINGS SHOWN ON CITY OF MANHATTAN WEB SITE "NEW WATER SERVICE GUIDELINES AND SPECIFICATIONS"

MANHATTAN
KANSAS
1101 POYNTZ AVE., MANHATTAN, KS 66502 (785) 587-2415

METER VAULT DETAILS

CITY ENGINEER: ROBERT OTT, P.E. | DESIGN BY: BRIAN JOHNSON, P.E.
CITY PROJ. #:
DATE: DECEMBER 2009 | DRAWN BY: MERREN | PAGE OF