



**NOTES:**

1. VALVE VAULT MUST CONFORM TO ASTM C-478.
2. USE ECCENTRIC CONE ONLY.
3. VAULT SECTIONS TO BE TONGUE AND GROOVED.
4. ALL NON-PRECAST PIPE OPENINGS TO BE CORED AND RUBBER BOOTED.
5. BACKFILL MATERIAL SHALL BE IDOT CA-7 VIRGIN CRUSHED LIMESTONE.
6. ALL BOLTS, NUTS & WASHERS SHALL BE 304 GRADE STAINLESS STEEL.
7. PRIOR TO THE PLACEMENT OF FINAL LAYER OF ROADWAY, FRAMES AND ADJUSTING RINGS LOCATED WITHIN PAVED AREAS SHALL BE SET IN AN IDOT APPROVED CONCRETE "SI" MIXTURE.

DATE: 7-27-10

NOT TO SCALE

**BUTTERFLY  
VALVE  
VAULT  
DETAIL**