Manhole Frame and Cover
Heavy Duty: Neenah R-1642A or Equal
Watertight: Neenah R-1916-F or Equal

MANHOLE CONSTRUCTION AND SEALING DETAILS SHALL BE THE SAME AS DETAILS FOR TYPE I & II MANHOLES AS SHOWN ON DWG CS7

# 10 TRACER WIRE BROUGHT IN AND ATTACHED TO MANHOLE WITH STAINLESS STEEL HOOK ACCESSIBLE FROM CASTING

TYPE 316 STAINLESS STEEL BALL VALVE

FORCE MAIN TO BE CONSTRUCTED OF DUCTILE IRON PIPE WITHIN STRUCTURE

"C" X 2" TEE WHERE "C" IS THE SIZE OF THE FORCE MAIN. USE FLANGED TEE WHEN FORCE MAIN IS 4" OR LARGER

NOTES:
1. FORCE MAIN TO BE LOCATED SUCH THAT AIR/VACUUM DOES NOT INTERFERE WITH ACCESS OPENING.
2. TOP OF CASTING SHALL EXTEND 0.20 FEET (MIN.) ABOVE FINISHED GRADE.
3. MANHOLE SECTIONS SHALL CONFORM TO ASTM C478 UTILIZING 4,000 PSI CONCRETE. JOINTS SHALL CONFORM TO ASTM C443. 4"-0" DIA. MANHOLE FOR 6" FORCE MAIN AND SMALLER OR 5'-0" DIA. MANHOLE FOR 8" FORCE MAIN AND LARGER.

City of Carmel Utilities
Standard Details

AIR / VACUUM RELEASE MANHOLE DETAIL

Date: January 2016   Scale: Not To Scale   Title: AIR / VACUUM RELEASE MANHOLE DETAIL   Drawing: CS 28   Page 12