



- | NO. | DESCRIPTION: |
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| 1. | WATER MAIN. |
| 2. | DIRECT BURY BUTTERFLY VALVE. |
| 3. | WASHED #57 STONE - MINIMUM 6" EACH SIDE OF VALVE. |
| 4. | PRECAST CONCRETE BEAM (REINFORCED). |
| 5. | 12" (MIN.) DIP (OR C900 PVC) RISER PIPE 20" MAXIMUM. |
| 6. | PRECAST CONCRETE FLOOR (REINFORCED). |
| 7. | 1/2-INCH EXPANSION MATERIAL (CONSTRUCTION JOINT). |
| 8. | STANDARD VALVE BOX (W/COVER), CAST IN CONCRETE FLOOR NO. 6. |
| 9. | 24" PVC PIPE - C900 - DR18, OR DIP - CAST IN. |
| 10. | PRECAST CONCRETE PAD (REINFORCED). |
| 11. | FRAME AND COVER - SEE CLTW STD. DETAILS. |
| 12. | VALVE LOCK BOX - FURNISHED BY CLTW. |
| 13. | EXTENSION STEM ASSEMBLY - SEE CLTW STD. DETAIL. |
| 14. | 20" PVC PIPE - C900 - DR18, DR21, OR DR25. |
| 15. | WELDED WIRE FABRIC (WWF) - 6 X 6, W2.9/W2.9, 16" DIAMETER, OR 2 EACH #3 REBARS - 16" DIAMETER. |
| 16. | #4 REBARS - AS SHOWN. |
| 17. | #2 OR #3 REBARS - STIRRUPS - AS SHOWN. |
| 18. | AWG #12 GAUGE SOLID COPPER TRACER WIRE WITH 30 MILS HDPE BLUE INSULATION, TERMINATE WITH 24" EXCESS WIRE (COILED) IN VALVE BOX (TYP.). |
| 19. | 1/4" OR 3/8" ID CONDUIT - SDR 9 PEX TUBING - ASTM F876. |
| 20. | 3/4" DIAMETER X 12" SCH 40 PVC CONDUIT. |
| 21. | GRADE / SLOPE ADJUSTMENT RING - PRECAST CONCRETE OR RECYCLED RUBBER. |
| 22. | ALUM OR STEEL CENTERING DISK. |

- NOTES:**
- METHOD A SHALL BE REQUIRED IN WATER MAIN EASEMENTS, OR WHEN VALVE IS BACK OF ROAD DITCH.
 - METHOD B SHALL BE REQUIRED WHEN VALVE IS IN MAINTAINED LAWNS, ON ROAD SHOULDER, IN PAVEMENT DRIVEWAYS OR SIDEWALKS.
 - DIAMETER OF RISER MAY VARY AS REQUIRED BY VALVE ACTUATOR, AS APPROVED BY CLTW.
 - EXTENSION STEM REQUIRED REGARDLESS OF DEPTH. SEE CLTW STD. EXTENSION STEM DETAIL.
 - PROVIDE 2" CLEARANCE IN ALL DIRECTIONS BETWEEN RISER AND VALVE/ACTUATOR (SEE NOTE C).
 - DIRECT BURY BUTTERFLY VALVES SHALL ONLY BE USED WHEN APPROVED BY CLTW.
 - VALVE BOX ASSEMBLY SHALL BE INSTALLED SO IT DOES NOT APPLY IMPACT LOADING TO THE VALVE.

- DESIGN REQUIREMENTS:**
- CONCRETE - $f_c = 3,600$ PSI (MIN.)
 - REBARS - GRADE 60, ASTM A615
 - WELDED WIRE FABRIC - ASTM A185, A82