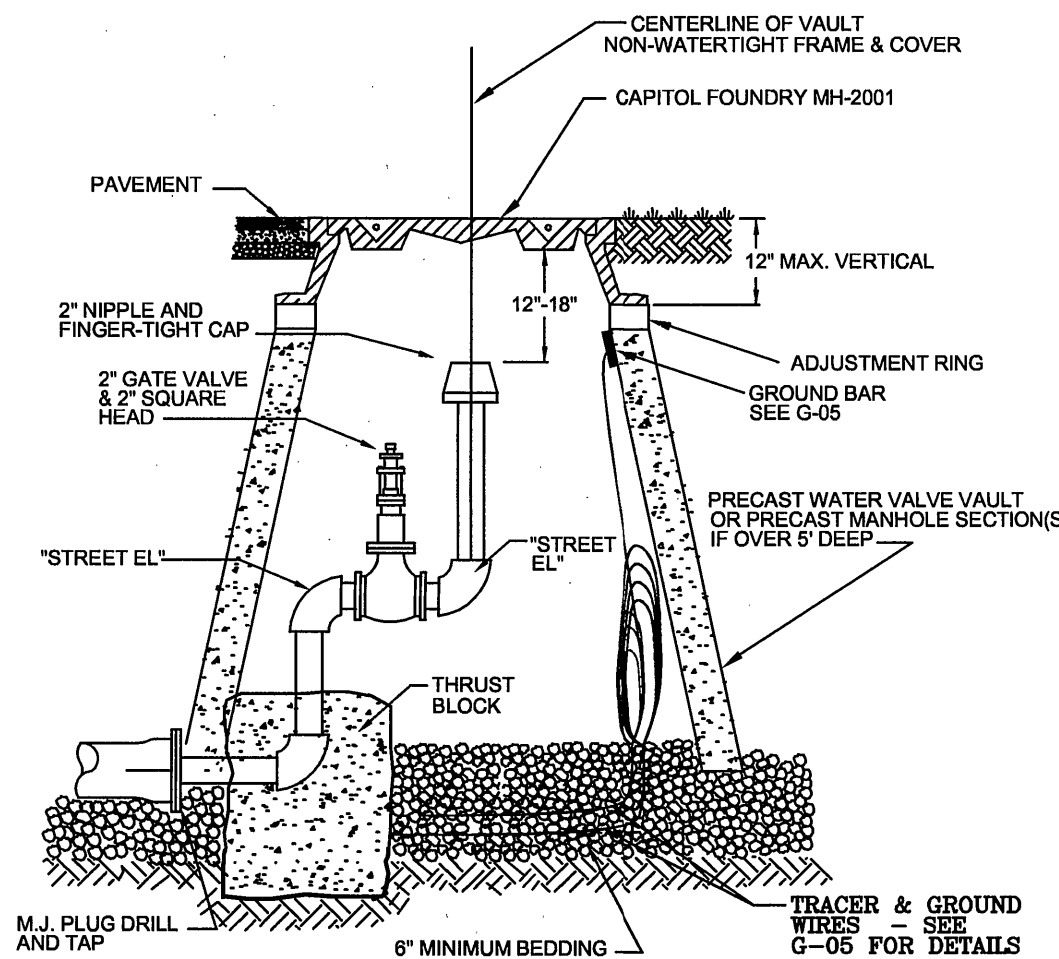
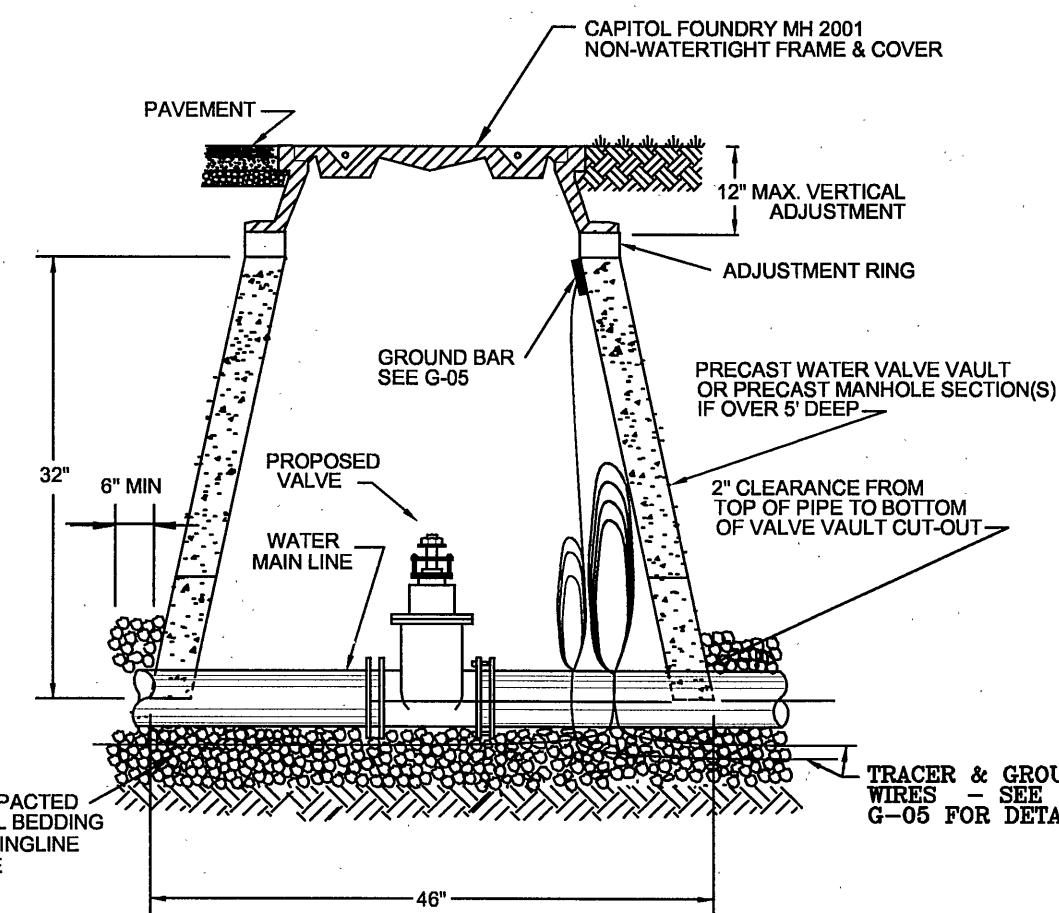
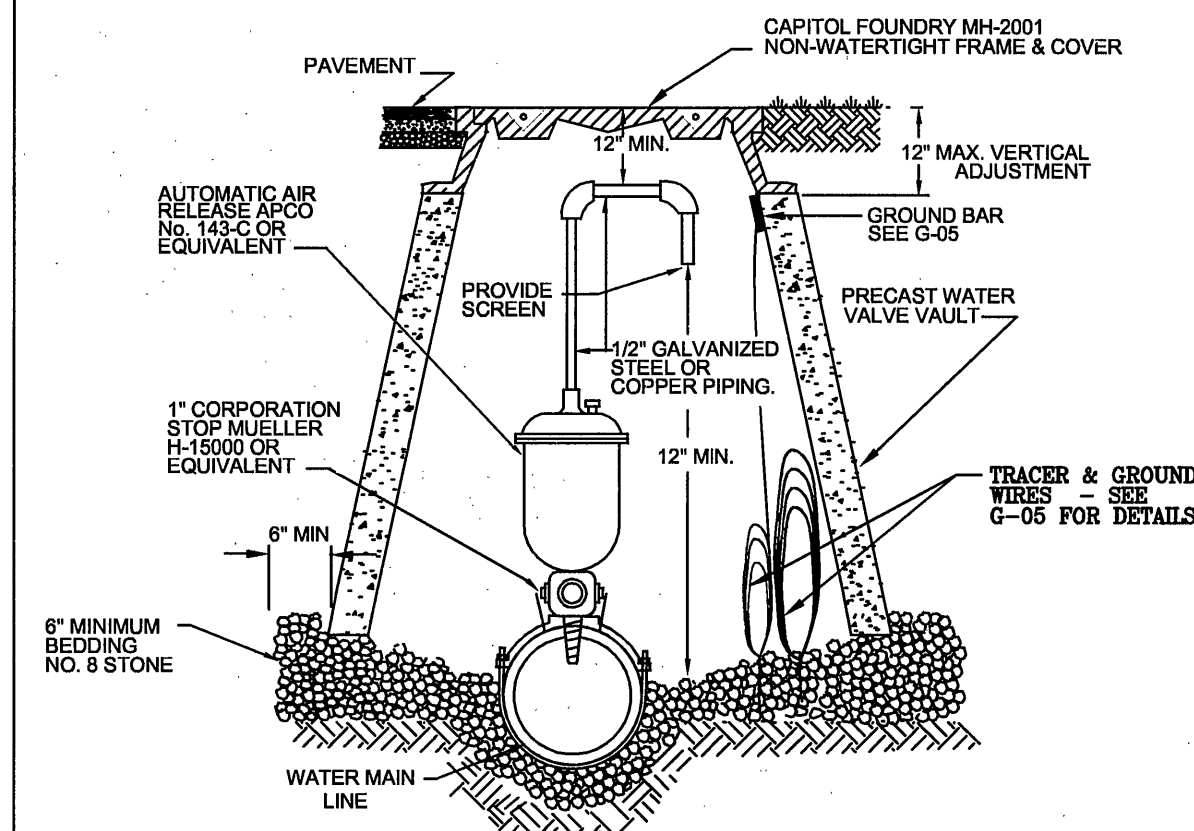
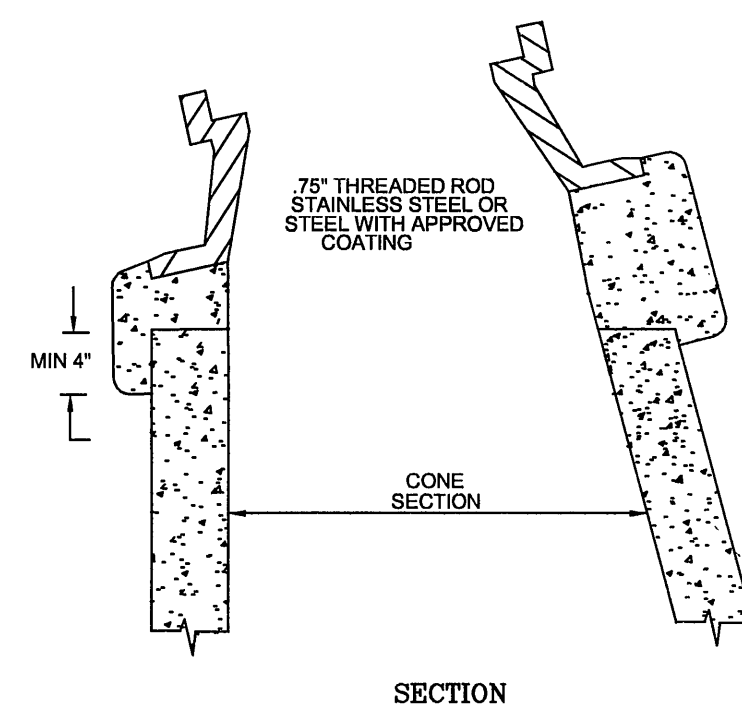


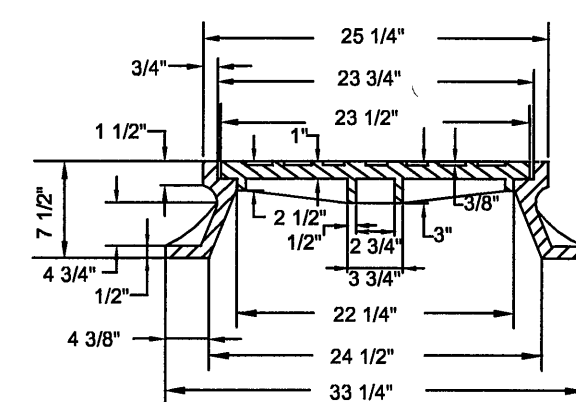
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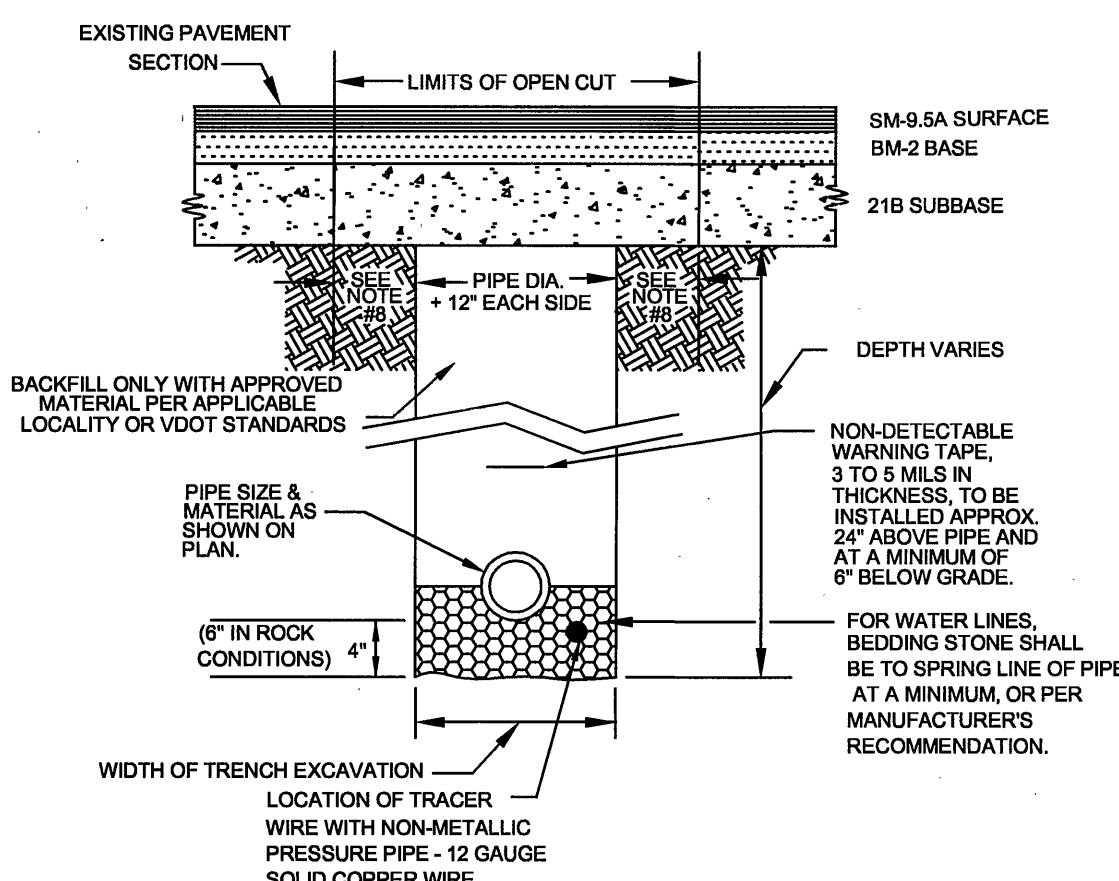
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[illegible]

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- The diagram illustrates a cross-section of a waterline installation. At the top, a horizontal line marks the 'FINISH GRADE'. Below this, a trench is excavated to a depth of '3 MIN.' (minimum). The trench is filled with 'BACKFILL ONLY WITH APPROVED MATERIAL, PER APPLICABLE LOCALITY OR VDOT STANDARDS'. The pipe is labeled 'PIPE DIA.' with dimensions of '12\"' on either side of the pipe. The pipe is shown with a 'NON-DETECTABLE WARNING TAPE' installed '3 TO 5 MILS IN THICKNESS, TO BE INSTALLED ABOVE PIPE AT A MINIMUM 6\"' BELOW GRADE'. The pipe is also labeled 'PIPE SIZE & MATERIAL AS SHOWN ON PLANS'. The pipe is shown with a 'LOCATION OF TRACER WIRE WITH NON-METALLIC PRESSURE PIPE - 12 GAUGE SOLID COPPER WIRE'. The pipe is shown with a 'FOR WATERLINES, BEDDING STONE TO SPRING LINE OF PIPE AT A MINIMUM, OR PER MANUFACTURER'S RECOMMENDATION.' The pipe is shown with a 'NORMAL SOIL CONDITIONS' layer below the backfill, which is '6\"' IN ROCK CONDITIONS' and '4\"' deep. The pipe is shown with 'EXCAVATION LIMITS' indicated by arrows. The pipe is shown with a 'LOCATION OF TRACER WIRE WITH NON-METALLIC PRESSURE PIPE - 12 GAUGE SOLID COPPER WIRE'.



- NOTES:**
- 1. BEDDING, HAUNCHING AND INITIAL BACKFILL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
  - 2. IN PVC PIPE SHALL BE BEDDED IN COMPACTED VDOT #57 OR #88 STONE.
  - 3. IN ROCKWATER COUNTY, THE CONTRACTOR SHALL REPLACE THE OPEN CUT WITH A MINIMUM TOP DRESS OF 6" OF 57 (MIX) STONE TO MEET THE REQUIREMENTS OF SDG 8M-256, AND SUBBASE OF 10" VDOT 21B OR AS REQUIRED BY VDOT. IN ROCKWATER CITY, CONTRACTOR SHALL REPLACE PAVEMENT AS REQUIRED FOR ANY REMOVAL OF CUT WAY EXPOSED TO TRAFFIC.
  - 4. ALL CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE AS SPECIFIED BY VDOT OR AS NOTED OTHERWISE.
  - 5. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS FROM VDOT AND/OR APPLICABLE LOCALITY.
  - 6. ALL SUBJECT TO VEHICULAR TRAFFIC, BEDDING STONE AND FILL SHALL BE PLACED IN 6" LIFTS AND SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY AS DETERMINED BY STANDARD TESTS.
  - 7. BEDDING REQUIREMENTS FOR DUCTILE WATER LINE ARE DEPENDENT ON MANUFACTURER'S BEDDING CRITERIA.
  - 8. SLOPE OUT ON EACH SIDE OF PAVEMENT; CITY OF ROCKAWEK EQUALS 12"; VDOT RIGHT-OF-WAY EQUALS 6".
  - 9. ALL EXCAVATIONS SHALL COMPLY WITH OSHA TECHNICAL MANUAL, CHAPTER 2, TITLED "EXCAVATION AND SHIELDING".

WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS				WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS				WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS				WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS			
REVISION DATE		INSTALLATION DETAIL FOR ALL FRAMES AND COVERS	W-16	REVISION DATE		MANHOLE FRAME  AND COVER	W-17	REVISION DATE		BEDDING AND BACKFILL OUTSIDE OF PAVED AREAS	W-24	REVISION DATE		BEDDING AND BACKFILL UNDER PAVEMENT AND RIGHT-OF-WAY	W-25
07/01/04				07/01/04				07/01/04				07/01/04			

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ARK'S RIDGE  
ESTATES  
WWW.DETAILS  
ROANOKE COUNTY, VIRGINIA

DRAWN BY: CPB  
DESIGNED BY: CPB  
CHECKED BY: JVJ  
DATE: 06/26/2006  
REVISIONS:

07/28/2006  
09/01/2006  
10/13/2006  
01/10/2007  
02/06/2007

**SCALE:** N/A

SHEET NO.

# C-11

JOB NO.  
R0600104.00