

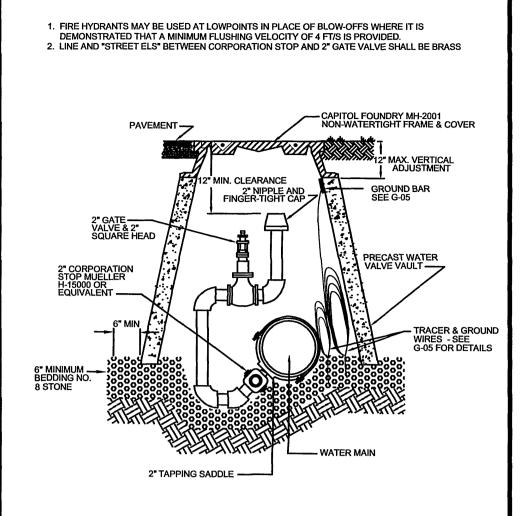
WATERLINE PROFILE

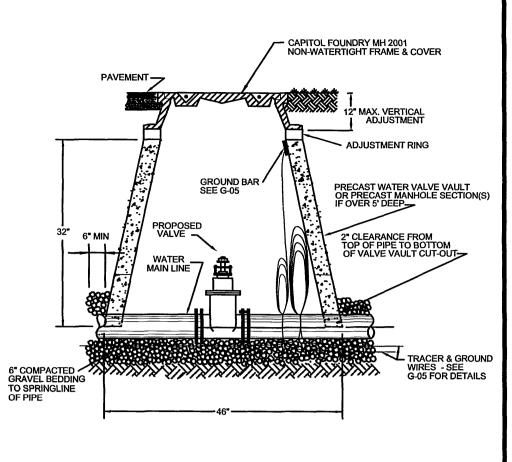
SCALE: 1"=50' HORZ 1"=5' VERT

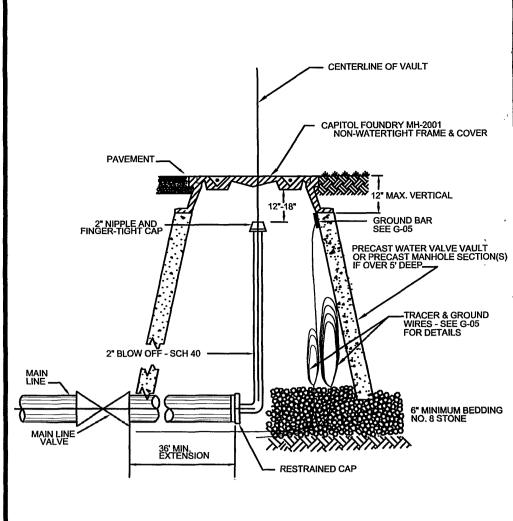
THIS PLAN IS FOR THE CONSTRUCTION OF A NEW WATERLINE PARALLEL TO BLUE HILLS VILLAGE DRIVE. REFERENCE THE APPROVED PLANS DATED 07/12/07 FOR ALL OTHER SITE CONSTRUCTION INFORMATION. EASEMENT RECORDED SEE P.B. 1 PG.

ENGINEERING CONCEPTS, INC.

3433 BRAMBLETON AVENUE, SUITE 200B ROANOKE, VIRGINIA 24018 540.776.5715 FAX: 540.776.8543







WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

BLOW-OFF ASSEMBLY FOR MAIN LINE TEMPORARY TERMINIATION

W-10

A MINIMUM COVER OF	
A MINISTRACTION	7

THREE (3) FEET IS REQUIRED OVER PROPOSED LINES. A MINIMUM VERTICAL SEPARATION OF 18" BETWEEN ALL UTILITIES.

2. VERIFY LOCATION, SIZE AND ELEVATION FOR ALL UTILITIES IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT ENGINEER IMMEDIATELY IF LOCATION, SIZE OR ELEVATION IS DIFFERENT FROM

WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

IN-LINE

BLOW-OFF ASSEMBLY

3. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND UNCOVERING VALVE VAULTS AFTER PAVING AND GRADING AND ADJUSTMENT FOR FINISH GRADE ELEVATION IF NECESSARY.

4. ALL EXISTING UTILITIES MAY NOT BE SHOWN IN THE EXACT LOCATION. THE CONTRACTOR SHALL COMPLY

5. ALL TRENCHES IN EXISTING OR FUTURE HIGHWAY RIGHTS-OF-WAY SHALL BE COMPACTED ACCORDING TO THE WESTERN VIRGINIA WATER AUTHORITY STANDARDS.

6. LINES SHALL BE STAKED PRIOR TO CONSTRUCTION

7. ALL WATER MAINS SHALL BE PROPERLY RESTRAINED WITH PROPER THRUST BLOCKING OR APPROVED

8. ALL WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA STANDARDS. COORDINATE INSPECTIONS FOR TESTING WITH THE WESTERN VIRGINIA WATER AUTHORITY.

9. THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON AVAILABLE INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND DEPTH OF ALL UTILITIES BEFORE COMMENCING WORK, AND FOR ANY DAMAGES WHICH OCCUR BY HIS FAILURE TO LOCATE SUCH UTILITIES. IF DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHOULD ENCOUNTER UTILITIES OTHER THAN THOSE SHOWN ON THESE PLANS, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER AND TAKE NECESSARY AND PROPER STEPS TO PROTECT THE FACILITY AND ASSURE CONTINUANCE OF SERVICE. CALL MISS UTILITIES AT 1.800.552.7001 (TOLL FREE) 48 HOURS BEFORE DIGGING

10. A CONTINUOUS AND UNIFORM BEDDING SHALL BE PROVIDED IN THE TRENCH FOR ALL PIPE. STONES AND ROCKS FOUND IN THE TRENCH SHALL BE REMOVED FOR A DEPTH OF AT LEAST SIX (6) INCHES BELOW THE BOTTOM OF THE PIPE AND TAMPED SELECTED FILL BEDDING PROVIDED. AFTER THE PIPE HAS BEEN PLACED IN THE TRENCH, THE TRENCH SHALL BE BACK FILLED WITH SELECTED MATERIAL, THOROUGHLY COMPACTED TO 95% UNDER PAVEMENT OR CONCRETE SLAB, OF THE STANDARD PROCTOR (ASTM D-698) USING CARE NOT TO DAMAGE THE PIPE.

11. ALL WATER FACILITIES ARE TO BE INSTALLED ACCORDING TO THE WESTERN VIRGINIA WATER AUTHORITY DESIGN AND CONSTRUCTION STANDARDS.

12. TAPS TO THE EXISTING MAIN SHALL BE PERFORMED BY THE WESTERN VIRGINIA WATER AUTHORITY.

13. INDIVIDUAL LOTS WILL BE RESPONSIBLE FOR THERE OWN WATER SERVICE CONNECTIONS, PRESSURE REDUCING VALVES AND FIRE SURPRESSION SYSTEMS 14. DEPENDING ON FUTURE BUILDING SIZES AND USE ADDITIONAL FIRE HYDRANTS MAY BE REQUIRED. STURCUTRES

15. THIS PLAN IS FOR THE CONSTRUCTION OF A NEW WATERLINE PARALLEL TO BLUE HILLS VILLAGE DRIVE. THE WATERLINE WAS SHOWN ON THE APPROVED PLANS BUT NOT REVIEWED FOR CONSTRUCTION. REFERENCE APPROVED BLUE HILLS VILLAGE PLANS DATED 07/12/07 FOR SITE CONSTRUCTION.

WITH FIRE SURPRESSION SYSTEMS WILL NEED TO SHOW THE LOCATION OF THE FIRE DEPARTMENT CONNECTION. KNOXBOXES ARE REQUIRED FOR ALL STRUCTURES WITH FIRE ALARMS. FIRE LANES WILL ALSO BE REQUIRED.

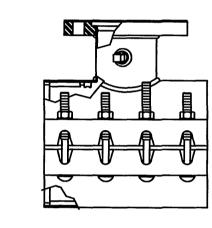
16. DUE TO WORKING PRESSURES ABOVE 100 PSI DUCTILE IRON PIPE IS REQUIRED.

AS-BUILTS ON WATER 4-22-2008 MARK SINTE CONTRACTOR'S SET

WATER MAIN

Ductile Topn Class 52 American pipe uplue's Are 811 muller Right to close 27 Turns Install pate is 10-22-07

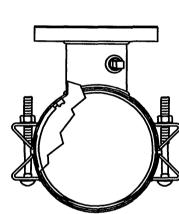
See page's 5+10 For Sewer



WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

WATER LINE VALVE

INSTALLATION



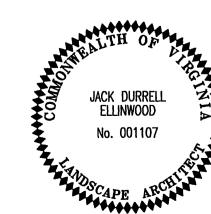
1. TAPPING SLEEVE SHALL BE POWERSEAL MODEL 3490 TYPE 304 STAINLESS STEEL WITH CARBON STEEL FLANGE, ROMAC'S MODEL SST III, FORD MODEL FTSS WITH CARBON STEEL FLANGE OR APPROVED EQUIVALENT. SLEEVE SHALL BE RATED AT 250 PSI AND MUST

2. TAPPING VALVE SHALL BE AVK RESILIENT SEATED GATE VALVE SERIES 25 MJFL OR MUELLER T-2360 RESILIENT WEDGE TAPPING VALVE WITH MJFL. VALVE SHALL BE RATED

3. TAPPING SLEEVE AND VALVE SHALL BE FULL PORT TO ACCEPT FULL SIZE SHELL CUTTER. 4. STEEL FLANGE SHALL MEET AWWA C207. WESTERN VIRGINIA WA

CAPITOL FOUNDRY MH-2001 NON-WATERTIGHT FRAME & COVER
AUTOMATIC AIR RELEASE ACO No. 143-C ACO No.
1" CORPORATION STOP MUELLER H-15000 DR EQUIVALENT TRACER & GROUND WIRES - SEE G-05 FOR DETAILS
6" MINIMUM BEDDING NO. 8 STONE WATER MAIN LINE

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ATER AUTHORITY - CONSTRUCTION STANDARDS		WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS			
TAPPING SLEEVE AND VALVE	W-23	REVISION DATE 07/01/04 03/01/06	AUTOMATIC AIR RELEASE ASSEMBLY	W-12	



Drawn DRB	FIELD REVISION	SCAKE: AS SHOWN
Designed JDE	WATERLINE EXTENSION	SEPT. 20, 2007
Checked	DILLE LULIC VIII LOC	PROJECT: 06067
JDE Approved JDE	BLUE HILLS VILLAGE ROANOKE, VIRGINIA	1