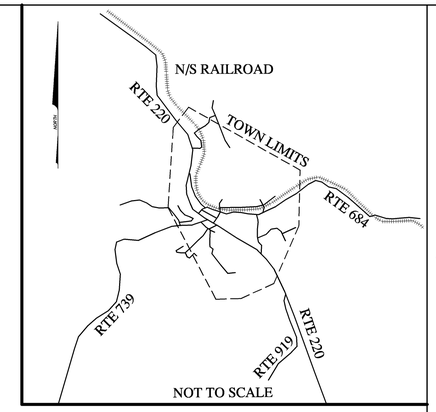
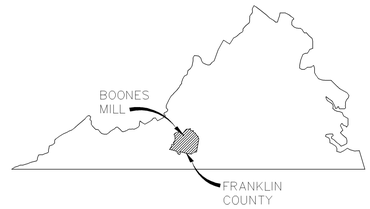
TOWN OF BOONES MILL
WATER SYSTEM REPLACEMENT, VOLUME 1-ASBUILT
TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VIRGINIA





400 200 0 400 800
GRAPHIC SCALE IN FEET

PROPOSED LEGEND

- WATER METER
- W — WATER LINE
- BLOW OFF ASSEMBLY
- AIR RELEASE
- FIRE HYDRANT
- CONCRETE ANCHOR
- GATE VALVE
- STEEL CASING
- SLOPE ANCHOR
- E.O.L. END OF LINE

EXISTING LEGEND

- ELECTRIC POLE
- GUY WIRE
- UTILITY PEDESTAL
- LIGHT POLE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- BENCHMARK
- SIGN
- CONCRETE PAD
- EDGE OF WOODS
- EXISTING FENCE LINE
- OH E — OVERHEAD ELECTRIC
- UG E — UG ELECTRIC LINE
- UG G — UG GAS LINE
- UG T — UG TELEPHONE LINE
- UG FO — UG FIBER OPTIC LINE
- W — UG WATER LINE
- DITCH LINE

VIRGINIA UNIFORM CODING SYSTEM FOR EROSION AND SEDIMENT CONTROL PRACTICES
* CHART TAKEN FROM THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (JULY 1992)

- (SF) SILT FENCE
- (TS) TEMPORARY SEEDING
- (PS) PERMANENT SEEDING
- (MU) MULCHING
- (CE) TEMPORARY CONSTRUCTION ENTRANCE
- (CIP) CULVERT INLET PROTECTION
- (IP) INLET PROTECTION
- (B/M) BLANKET MATTING
- (SR) SURFACE ROUGHING
- (OP) OUTLET PROTECTION

TANK & TREATMENT BUILDING SITE

THE ENGINEER AND/OR SURVEYOR TAKES NO RESPONSIBILITY FOR THE LOCATION OR ACCURACY OF THE UTILITIES AS SHOWN HEREON OR ANY UTILITIES WITHIN THE PROJECT THAT MAY NOT BE SHOWN HEREON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES TO SEE IF ANY UTILITIES EXIST WITHIN THE AREA OF THE PROJECT BEFORE ANY CONSTRUCTION BEGINS. ANY COST INCURRED BY DAMAGING ANY UTILITY WITHIN THE PROJECT SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

48 WORKING HOURS PRIOR TO STARTING THE WORK, THE CONTRACTOR SHALL CALL MISS UTILITY AT PHONE NUMBER 811 AND ADVISE THE NATURE AND LOCATION OF THE WORK.

ALWAYS CARE BEFORE YOU DIG — CALL MISS UTILITY — KNOW VIRGINIA SAFE 811

SHEET INDEX

PLAN REVISIONS

#	DATE	DESCRIPTION OF REVISION	SHEETS
1	8/28/09	VDH COMMENTS	ALL
2	9/3/09	OWNER COMMENTS	ALL
3	2/17/10	REVISED ALIGNMENT	WL–500.00, 600.00, 700.00
4	3/14/12	ASBUILTS	ALL

HURT & PROFFITT
INCORPORATED
*ENGINEERING >> SURVEYING >> PLANNING
2524 LANGHORNE ROAD
LYNCHBURG VA 24501
800.242.4906 TOLL FREE
434.847.7796 MAIN
434.847.0047 FAX

COVER SHEET-ASBUILT
FOR
TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 1
TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

PROJECT NO.	20080815
G.L. NO.	297-03-A3.9
FILE NO.	G-12675
DATE:	7/31/09
DRAWN BY:	WCH
CHECKED BY:	BLC

HURT & PROFFITT

SHEET NO.
C0.0

Mar 14, 2012 - 10:24am V:\LDproj\projects\20080815\dwg\Asbuilts-WL\ASBUILT-Cover-WL.dwg

GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATIONS AND STANDARD DETAILS. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE DRAWINGS AND SPECIFICATIONS AT THE SITE AT ALL TIMES DURING CONSTRUCTION. EARTHWORK, GRADING, STORM DRAINAGE, AND PAVING SPECIFICATIONS AND DETAILS NOT COVERED BY THESE DRAWINGS AND THE SPECIFICATIONS SHALL CONFORM TO THE VDOT 2007 ROAD AND BRIDGE SPECIFICATIONS AND THE VDOT 2001 ROAD AND BRIDGE STANDARDS.

2. THE TOPOGRAPHICAL INFORMATION SHOWN HEREON FOR HURT & PROFFITT SECTION OF PROJECT WAS PREPARED FROM AN ACTUAL FIELD SURVEY AS PER JULY 7, 2009.

3. THE LOCATION, ELEVATION AND DIMENSIONS OF EXISTING STRUCTURES, PIPING AND UTILITIES SHOWN ARE BASED ON THE BEST AVAILABLE DATA AND ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DATA IN THE FIELD PRIOR TO CONSTRUCTION. THE DIAMETERS OF EXISTING PIPING ARE APPROXIMATE AND SHALL BE VERIFIED PRIOR TO PERFORMING FINAL CONNECTIONS. CONTACT MISS UTILITY (TELEPHONE NO. (800) 552-7001) 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION TO HAVE UNDERGROUND UTILITIES MARKED. THE CONTRACTOR SHALL PERFORM ANY TEST PIT WORK OR PROVIDE LOCATION SERVICES AS REQUIRED TO AVOID CONFLICTS WITH EXISTING UTILITIES.

4. MINIMUM COVER OVER DOMESTIC WATER LINE IS TO BE 3 FEET. PIPING SHALL BE INSTALLED TO ALLOW MINIMUM 18" VERTICAL SEPARATION BETWEEN NEW UTILITIES AND EXISTING UTILITIES.

5. PROVIDE ALL CONNECTING PIECES AND TRANSITION PIECES REQUIRED TO MAKE FINAL PIPING CONNECTIONS. PROVIDE RESTRAINED JOINTS FOR ALL CARRIER PIPE INSTALLED IN CASING PIPE. ALL PIPING UNDER STRUCTURES SHALL BE PROVIDED WITH RETRAINED JOINTS.

6. EROSION AND SEDIMENT CONTROL MEASURES SHALL COMPLY WITH THE VESCH, 1992 EDITION OR LATER. THE CONTRACTOR SHALL MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY AND SHALL BE RESPONSIBLE FOR ALL ADDITIONAL MEASURES AS DETERMINED BY FRANKLIN COUNTY.

7. CONSTRUCTION LIMITS SHALL INCLUDE ALL DISTURBED AREAS. ALL DISTURBED AREAS SHALL BE SEEDED AND PROVIDED WITH EROSION CONTROL DURING AND AT THE END OF CONSTRUCTION.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, PERFORMING ALL TESTS AND PAYING ALL FEES & BONDS AS DEEMED NECESSARY BY FRANKLIN COUNTY.

9. CONTRACTOR RESPONSIBLE FOR COORDINATING WITH THE VIRGINIA DEPARTMENT OF TRANSPORTATION, FRANKLIN COUNTY, AND OTHER GOVERNING BODY, PERMITS AND INSPECTIONS AS REQUIRED. ALL WORK DONE WITHIN THE RIGHT OF WAY WILL BE GOVERNED BY THE SPECIAL PROVISIONS INCLUDED IN THE LAND USE PERMIT. CONTRACTOR RESPONSIBLE FOR OBTAINING LAND USE PERMIT. TOWN OF BOONES MILL IS TO BE SHOWN AS OWNER AND CONTRACTOR AS AGENT. PERMIT AND INSPECTION FEES WILL BE WAIVED BUT BOND WILL BE REQUIRED.

10. VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED AND MAINTAINED FOR ALL DISTURBED AREAS IN ACCORDANCE WITH ALL LOCAL REQUIREMENTS AND THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE INSTALLED AS A FIRST STEP IN CONSTRUCTION AND BEFORE EXCAVATION BEGINS.

11. ALL SLOPES STEEPER THAN 2:1 SHALL BE PROTECTED WITH VDOT EC-2 EROSION CONTROL MATTING FROM TOP OF SLOPE TO TOE OF SLOPE. THE CONTRACTOR SHALL ENSURE THE PROPER INSTALLATION OF SUCH MEASURES IN ACCORDANCE WITH VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS AND THE MANUFACTURER'S WRITTEN RECOMMENDATIONS.

12. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL CONFINED SPACE ENTRY REGULATIONS.

13. MAINTAIN ALL OVERHEAD AND UNDERGROUND ELECTRICAL, TELEPHONE, WATER AND GAS SERVICES AND ALL OTHER UTILITIES DURING ENTIRE CONSTRUCTION PERIOD. UTILITY OUTAGES WILL NOT BE ALLOWED.

14. THE CONTRACTOR SHALL MAINTAIN SURFACE DRAINAGE DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL PUMPS AND PIPING REQUIRED TO MAINTAIN SURFACE DRAINAGE.

15. CONSTRUCT EXCAVATION SUPPORT SYSTEMS AS REQUIRED BY OSHA AND U.S. ARMY CORPS OF ENGINEERS SAFETY & HEALTH REQUIREMENTS MANUAL EM 385-1-1, AND SECTIONS 23 A AND 23 B TO ADEQUATELY SUPPORT EXISTING SOIL AND ADJACENT STRUCTURES DURING EXCAVATION ACTIVITIES. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH INSTALLATION DRAWINGS, SPECIFICATIONS, AND DESIGN CALCULATIONS STAMPED BY PROFESSIONAL ENGINEER LICENSED BY THE COMMONWEALTH OF VIRGINIA FOR ALL EXCAVATION SUPPORT SYSTEMS.

16. SUBSURFACE EXPLORATION HAS NOT BEEN PERFORMED FOR THE PROJECT SITE. ALL EARTHWORK EXCAVATION SHALL BE UNCLASSIFIED AND SHALL BE PERFORMED TO THE INDICATED ELEVATIONS AT NO ADDITIONAL COST TO THE OWNER. SEE PROJECT MANUAL FOR ADDITIONAL INFORMATION.

17. THE CONTRACTOR SHALL BE FULLY LIABLE FOR REPAIR OF ANY DAMAGES ON PUBLIC OR PRIVATE PROPERTY CAUSED BY HIS CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL REPLACE ALL DISTURBED SURFACES IN KIND, INCLUDING PAVEMENT, STONE, DITCHES, MAILBOXES, STORM CULVERTS, FENCING, ETC. AT NO ADDITIONAL COST TO THE OWNER.

18. ALL EXISTING SIGNS, CURBS, GUARDRAIL FENCING, STONE, STRUCTURES, LANDSCAPING, PLANTERS, SHRUBS, AND OTHER PHYSICAL IMPROVEMENTS TEMPORARILY REMOVED BY THE CONTRACTOR SHALL BE REPLACED TO ORIGINAL CONDITION.

19. ALL ASPHALT DRIVEWAYS, PARKING LOTS AND ROADS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE SAW CUT AND REPLACED TO ORIGINAL CONDITION. ALL ASPHALT AND GRAVEL DRIVEWAYS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED TO ORIGINAL CONDITION.

20. THE CONTRACTOR SHALL PROTECT EXISTING PAVED SURFACES. ANY DAMAGED PAVEMENT SHALL BE REPAIRED TO MATCH EXISTING. TRACKED EQUIPMENT WILL NOT BE ALLOWED ON PAVED SURFACES. ANY PAVEMENT MARKINGS DAMAGED BY CONSTRUCTION SHALL BE REPLACED IN KIND BY A PAVEMENT MARKING CONTRACTOR FROM THE VDOT PRE-QUALIFICATION LIST.

21. ALL PROPERTY PINS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY A LAND SURVEYOR LICENSED IN THE COMMONWEALTH OF VIRGINIA AT CONTRACTOR'S EXPENSE.

22. DISPOSE OF SURPLUS SOIL MATERIAL OFF THE OWNER'S PROPERTY IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

23. THE CONTRACTOR MAY USE FIELD-LOK GASKETS WITHIN THE STEEL CASING PIPE FOR ROAD/RAILROAD CROSSINGS IN LIEU OF RESTRAINED JOINT PIPE.

24. THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM PROPERTY OWNERS FOR USE OF ANY ACCESS POINTS OTHER THAN THOSE LOCATED WITHIN RIGHT-OF-WAYS AND OBTAINED EASEMENTS. WRITTEN PERMISSION SHALL CONTAIN CONDITIONS FOR USE AND RESTORATION AGREEMENTS BETWEEN PROPERTY OWNER AND CONTRACTOR.

25. TREES AND SHRUBS TO REMAIN IN PLACE SHALL BE ROPED OFF DURING GRADING OPERATIONS TO KEEP EQUIPMENT AWAY FROM ROOT SYSTEMS. THE CONTRACTOR SHALL MAKE SELECT CUTTING OF TREES, TAKING THE SMALLEST TREES FIRST, THAT ARE MANDATORY FOR WATER LINE CONSTRUCTION.

26. ANY FENCING DISTURBED BY CONSTRUCTION SHALL BE IMMEDIATELY REPLACED OR SUPPLEMENTED BY TEMPORARY FENCING SUITABLE FOR INTENDED PURPOSE OF EXISTING FENCING. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE DISTURBED FENCING TO ORIGINAL CONDITION.

27. ALL CONSTRUCTION ACTIVITIES ASSOCIATED WITH WORKING IN OR CROSSING A LIVE STREAM SHALL BE UNDER THE JURISDICTIONAL AUTHORITY OF THE U.S. ARMY CORPS OF ENGINEERS. THE CONTRACTOR SHALL MAINTAIN AND PROTECT AREAS DESIGNATED AS STREAMS, AND COMPLY WITH ALL CONDITIONS IN THE APPLICABLE CORPS NATIONWIDE PERMITS, AS WELL AS ALL APPLICABLE STATE AND LOCAL REGULATIONS. CONSTRUCTION ACTIVITIES IN THESE AREAS SHALL BE LIMITED TO STREAM CROSSINGS REQUIRED FOR WATERLINE PIPING. THE CONTRACTOR SHALL PROVIDE ALL DIVERSION STRUCTURES, PUMPS, PIPING AND OTHER EQUIPMENT REQUIRED TO MAINTAIN AN ACCESSIBLE CONSTRUCTION AREA WHILE WORKING IN OR CROSSING A LIVE STREAM.

28. ALL CLEARED MATERIALS TO BE REMOVED FROM SITE AND DISPOSED OF LEGALLY AT THE CONTRACTOR'S EXPENSE.

29. PROPER TRAFFIC CONTROL IS TO BE PROVIDED BY CONTRACTOR. PROTECTION STANDARDS ARE TO FOLLOW VDOT'S WORK AREA PROTECTION MANUAL.

30. CONTRACTOR TO COORDINATE WITH TOWN AND NORFOLK SOUTHERN RAILROAD OFFICIALS FOR ALL RAILROAD CROSSINGS.

31. CONTOUR INTERVAL ON ALL PLAN AND PROFILE, AND SITE PLAN SHEETS ARE 2'.

32. UNDERGROUND UTILITIES SHOWN ARE BASED ON MISS UTILITY MARKINGS. DESIGN TICKETS A922200719, A922200727, A922200741, A922200767, A922200781 AND A922200800 DATED 8/10/09 HAVE BEEN INCORPORATED INTO THESE PLANS. HOWEVER, THE CONTRACTOR IS STILL RESPONSIBLE TO CONTACT MISS UTILITY TO HAVE ALL UTILITIES MARKED PRIOR TO ANY EXCAVATION.

WATER LINE NOTES:

1. ANY VARIATION IN WATER LINE ALIGNMENT MUST BE APPROVED BY ENGINEER AND/OR OWNER.
2. WATER LINE TO BE LOCATED AS SHOWN ON PLAN IN ALL CASES.
3. SEPTIC SYSTEM DRAINFIELDS SHALL BE A MINIMUM OF 30 HORIZONTAL FEET FROM THE WATER LINE.
4. 2" POLYETHYLENE CASING IS REQUIRED FOR EACH 1" SERVICE LINE THAT CROSSES UNDER PAVEMENT. SERVICE LINES CROSSING ROAD CAN NOT BE OPEN CUT.
5. DOMESTIC WATER LINE SHALL BE CONSTRUCTED USING PVC C900 OR C909.
6. ALL SERVICE LINES WILL BE 1" DIAMETER PE TUBING.
7. ALL METER SETTINGS ARE TO FOLLOW DETAILS PROVIDED IN PLANS.
8. TRANSITION COUPLINGS ARE TO BE USED AT ALL TRANSITIONS.
9. MAINTAIN A MINIMUM OF 18" SEPARATION BETWEEN WATER LINE AND ANY STORM STRUCTURE OR PIPE.
10. WHERE WATER LINE IS SHOWN DEFLECTING WITHOUT FITTINGS, THE CONTRACTOR IS TO FOLLOW THE PIPE MANUFACTURERS RECOMMENDATIONS. IF THE DEFLECTION CANNOT BE MADE, THE CONTRACTOR IS TO CONTACT THE ENGINEER FOR ASSISTANCE IN DETERMINING APPROPRIATE FITTING.
11. PRESSURE REDUCING VALVES (PRV'S) ARE TO BE INSTALLED ON ALL SERVICE CONNECTIONS TO REDUCE THE PRESSURE TO 80 PSI AS SHOWN IN THE PLANS.
12. ALL PIPE, FITTINGS, AND APPURTENANCES SHALL BE RESTRAINED AND ANCHORED IN ACCORDANCE WITH THE STANDARD DETAILS. THRUST RESTRAINTS ARE REQUIRED FOR ALL BENDS AND TEES. IF MECHANICAL JOINT RESTRAINT SYSTEMS ARE USED, INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS RELATED TO NUMBER OF JOINTS RESTRAINED.
13. WATER LINES SHALL BE TESTED AT A PRESSURE OF 200 PSI.
14. DOMESTIC WATER LINES SHALL HAVE A MINIMUM COVER OF 3 FEET AND BE LAID DEEPER WHERE SHOWN ON THE PROFILES TO PROVIDE GRADES TO AIR RELEASES AND BLOW OFF VALVES, AND AS REQUIRED TO ALLOW FOR 18 INCHES OF SEPARATION BETWEEN PROPOSED WATER LINES AND EXISTING STORM SEWER LINES.
15. GATE VALVES AND BOXES: PROVIDE AN EXTENDED VALVE STEM WHERE DEPTH TO TOP OF NUT EXCEEDS 5 FEET.
16. CONTRACTOR TO DETERMINE FIRE HYDRANT RISER LENGTH FOR EACH HYDRANT LOCATION PRIOR TO ORDERING HYDRANTS.
17. 12 GAUGE COPPER WIRE TO BE INSTALLED 12" ABOVE ALL WATER LINES. COPPER WIRE TO BE COILED AROUND VALVES SO LOCATORS CAN BE CONNECTED IN THE FUTURE TO LOCATE WATER LINES.
18. FIRE HYDRANT WEEP DRAINS SHALL BE DRAINED TO THE GROUND SURFACE OR TO DRY WELLS PROVIDED EXCLUSIVELY FOR THIS PURPOSE. WHERE FIRE HYDRANTS ARE LOCATED IN AREAS SUBJECT TO HIGH GROUNDWATER LEVELS OR FLOODING, THE WEEP HOLES WILL BE PLUGGED AND THE TOWN NOTIFIED WHICH HYDRANTS HAVE PLUGGED WEEP HOLES.
19. ANY LOT THAT HAS AN EXISTING WELL MUST DISCONNECT FROM THIS WATER SOURCE BEFORE CONNECTING TO THE PUBLIC WATER SYSTEM. NO PHYSICAL INTERCONNECTION BETWEEN THE WELL AND PUBLIC WATER SYSTEM MAY EXIST.
20. MEGALUGS, OR APPROVED EQUIVALENT, MAY BE USED AND ARE THE PREFERRED METHOD OF RESTRAINT. ADEQUATE LENGTHS OF PIPE MUST BE RESTRAINED WHEN USING MEGALUGS.
21. ALL HYDRANTS ARE TO BE INSTALLED BEHIND THE EXISTING DITCH LINE EXCEPT AS NOTED.
22. TRENCH BEDDING DETAIL SHOWN ON WL-2 MUST BE FOLLOWED AT ALL TIMES.
23. ALL FIRE HYDRANTS TO BE INSTALLED WITH PUMPER CONNECTION FACING ROAD OR STREET.

VDOT GENERAL NOTES

V1. ALL WORK ON THIS PROJECT SHALL CONFORM TO THE CURRENT EDITIONS OF AND LATEST REVISIONS TO THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS AND STANDARDS, THE VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS, AND ANY OTHER APPLICABLE STATE, FEDERAL OR LOCAL REGULATIONS. IN CASE OF A DISCREPANCY OR CONFLICT BETWEEN THE STANDARDS OR SPECIFICATIONS AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.

V2. ALL CONSTRUCTION SHALL COMPLY WITH THE LATEST U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND VIRGINIA OCCUPATIONAL SAFETY HEALTH (VOSH) RULES AND REGULATIONS.

V3. WHEN WORKING WITHIN VDOT RIGHT-OF-WAY, ALL TRAFFIC CONTROL, WHETHER PERMANENT OR TEMPORARY, SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF VDOT'S WORK AREA PROTECTION MANUAL. FURTHERMORE, ALL TRAFFIC CONTROL FLAGGERS MUST BE CERTIFIED IN ACCORDANCE WITH SECTION 104.04(C) OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS.

V4. DESIGN FEATURES RELATING TO FIELD CONSTRUCTION, REGULATIONS, AND CONTROL OR SAFETY OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY VDOT. ANY ADDITIONAL EXPENSES INCURRED AS A RESULT OF ANY FIELD REVISION SHALL BE THE RESPONSIBILITY OF THE DEVELOPER.

V5. PRIOR TO INITIATION OF WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL NECESSARY VDOT LAND USE PERMITS FOR ANY WORK WITHIN VDOT RIGHT-OF-WAY.

V6. IF REQUIRED BY THE LOCAL VDOT RESIDENCY OFFICE, A PRE-CONSTRUCTION CONFERENCE SHALL BE ARRANGED AND HELD BY THE ENGINEER AND OWNER WITH THE ATTENDANCE OF THE CONTRACTOR, VARIOUS COUNTY AGENCIES, UTILITY COMPANIES AND VDOT PRIOR TO INITIATION OR WORK.

V7. THE CONTRACTOR SHALL NOTIFY THE LOCAL VDOT RESIDENCY OFFICE WHEN WORK IS TO BEGIN OR CEASE FOR ANY UNDETERMINED LENGTH OF TIME. VDOT REQUIRES AND SHALL RECEIVE 48 HOURS ADVANCE NOTICE PRIOR TO ANY REQUIRED OR REQUESTED INSPECTION.

V8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE ACCESS TO THE PROJECT FROM THE ADJACENT PUBLIC ROADWAY VIA A CONSTRUCTION ENTRANCE THAT IS CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH SECTION 3.02 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. FURTHERMORE, ACCESS TO OTHER PROPERTIES AFFECTED BY THIS PROJECT SHALL BE MAINTAINED THROUGH CONSTRUCTION. THE OWNER SHALL HAVE, WITHIN THE LIMITS OF THE PROJECT, AN EMPLOYEE CERTIFIED BY THE VIRGINIA DEPARTMENT OF CONSERVATION AND RECREATION (VDCR) IN EROSION AND SEDIMENT CONTROL WHO SHALL INSPECT EROSION AND SILTATION CONTROL DEVICES AND MEASURES ON A CONTINUOUS BASIS FOR PROPER INSTALLATION AND OPERATION. DEFICIENCIES SHALL BE PROMPTLY RECTIFIED.

V9. CONTRACTOR SHALL ENSURE DRAINAGE IS ACHIEVED AND MAINTAINED ON THE SITE DURING AND AT THE END OF CONSTRUCTION.

V10. ALL WATER AND SEWER LINES WITHIN EXISTING OR PROPOSED VDOT RIGHT-OF-WAY SHALL HAVE A MINIMUM THIRTY-SIX (36) INCH COVER AND WHEN POSSIBLE SHALL BE INSTALLED UNDER ROADWAY DRAINAGE FACILITIES AT CONFLICT POINTS.

V11. ANY UNUSUAL SUBSURFACE CONDITIONS (E.G. UNSUITABLE SOILS, SPRINGS, SINKHOLES, VOIDS, CAVES, ETC.) ENCOUNTERED DURING THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER AND VDOT. WORK SHALL CEASE IN THE VICINITY UNTIL AN ADEQUATE DESIGN CAN BE DETERMINED BY THE ENGINEER AND APPROVED BY VDOT.

V12. ALL FILL AREAS, BORROW MATERIAL AND UNDERCUT AREAS SHALL BE INSPECTED AND APPROVED BY A VDOT REPRESENTATIVE PRIOR TO PLACEMENT OF FILL. WHERE CBR TESTING IS REQUIRED, A VDOT REPRESENTATIVE SHALL BE PRESENT TO INSURE THE SAMPLE OBTAINED IS REPRESENTATIVE OF THE LOCATION. WHEN SOIL SAMPLES ARE SUBMITTED TO PRIVATE LABORATORIES FOR TESTING, THE SAMPLES SHALL BE CLEARLY IDENTIFIED AND LABELED AS BELONGING TO A PROJECT TO BE ACCEPTED BY VDOT AND THAT TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE VDOT STANDARDS AND PROCEDURES.

V13. ALL ROADWAY FILL, BASE SUBGRADE MATERIAL, AND BACKFILL IN UTILITY/STORM SEWER TRENCHES SHALL BE COMPACTED IN SIX (6) INCH LIFTS TO 95% OF THEORETICAL MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99 METHOD A, WITHIN PLUS OR MINUS 2% OF OPTIMUM MOISTURE FOR THE FULL WIDTH OF ANY DEDICATED STREET RIGHT-OF-WAY. AT THE DIRECTION OF VDOT, DENSITY REST SHALL BE PERFORMED BY A QUALIFIED INDEPENDENT AGENCY IN ACCORDANCE WITH VDOT ROAD AND BRIDGE SPECIFICATIONS. CERTIFIED COPIES OF TEST REPORTS SHALL BE SUBMITTED TO VDOT DAILY, UNLESS SPECIFIED OTHERWISE.

V14. VDOT STANDARD CD AND UD UNDERDRAINS SHALL BE INSTALLED WHERE INDICATED ON THESE PLANS AND/OR AS SPECIFIED BY VDOT.

V15. THE INSTALLATION OF ANY ENTRANCES AND MAILBOXES WITHIN ANY DEDICATED STREET RIGHT-OF-WAY SHALL MEET VDOT MINIMUM DESIGN STANDARDS AND IS THE RESPONSIBILITY OF THE DEVELOPER.

V16. ASPHALT CONCRETE PAVEMENTS SHALL BE PLACED IN ACCORDANCE WITH SECTION 315 OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS. DENSITY SHALL BE DETERMINED USING THE DENSITY CONTROL STRIP AS SPECIFIED IN SECTION 315 AND VTM-76. A CERTIFIED COMPACTION TECHNICIAN SHALL PERFORM THESE TESTS. CERTIFIED COPIES OF TEST REPORTS SHALL BE SUBMITTED TO VDOT DAILY, UNLESS SPECIFIED OTHERWISE. A VDOT REPRESENTATIVE SHALL BE NOTIFIED AND GIVEN THE OPPORTUNITY TO BE PRESENT DURING THE CONSTRUCTION AND TESTING OF THE CONTROL STRIP.

V17. APPROVAL OF THESE PLANS SHALL EXPIRE THREE (3) YEARS FORM THE DATE OF THE APPROVAL LETTER.

V18. VDOT STANDARD CG-12 CURB RAMPS SHALL BE INSTALLED WHERE INDICATED ON THESE PLANS AND/OR AS SPECIFIED BY VDOT.

V19. VDOT STANDARD GUARDRAIL SHALL BE INSTALLED WHERE WARRANTED AND/OR AS PROPOSED ON THESE PLANS IN ACCORDANCE WITH VDOT'S INSTALLATION CRITERIA. FINAL APPROVAL OF THE GUARDRAIL LAYOUT TO BE GIVEN BY VDOT AFTER GRADING IS MOSTLY COMPLETE.

1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
4	3/14/12	ASBUILTS

HURT & PROFFITT
INCORPORATED
*ENGINEERING >> SURVEYING >> PLANNING
2524 LANGHORNE ROAD
LYNCHBURG VA 24501
800.242.4906 TOLL FREE
434.847.7796 MAIN
434.847.0047 FAX

NOTES-ASBUILT
FOR
TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 1
TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

PROJECT NO.	20080815
G.L. NO.	297-03-A3.9
FILE NO.	G-12675
DATE:	7/31/09
DRAWN BY:	WCH
CHECKED BY:	BLC

HURT & PROFFITT

SHEET NO.
C0.1

SHEET WL-100.00

SHEET WL-200.00

SHEET WL-300.00

SHEET WL-400.00

SHEET WL-400.01

SHEET WL-500.00

SHEET WL-500.01

SHEET WL-500.02

SHEET WL-500.03

SHEET WL-500.04

SHEET WL-600.00

SHEET WL-700.00

SHEET WL-800.00

SHEET WL-800.01

SHEET WL-900.00

NORTH

200 100 0 200 400
GRAPHIC SCALE IN FEET
1" = 200'

1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
4	3/14/12	ASBUILTS

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*ENGINEERING >> SURVEYING >> PLANNING
2524 LANGHORNE ROAD
LYNCHBURG VA 24501
800.242.4906 TOLL FREE
434.847.7796 MAIN
434.847.0047 FAX

PROJECT MAP-ASBUILT

FOR

TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 1

TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

PROJECT NO.	20080815
G.L. NO.	297-03-A3.9
FILE NO.	G-12675
DATE:	7/31/09
DRAWN BY:	ASK
CHECKED BY:	BLC

HURT & PROFFITT

SHEET NO.
C0.2

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION:
THIS PROJECT CONSISTS OF CONSTRUCTION OF WATER LINE, WATER TREATMENT PLANT, WELL DEVELOPMENT AND TWO TANKS LOCATED IN THE TOWN OF BOONES MILL. THE PROJECT INCLUDES GRADING AND ASSOCIATED EROSION AND SEDIMENT CONTROL MEASURES NECESSARY TO CONSTRUCT WATERLINE, WATER TREATMENT PLANT, WELL DEVELOPMENT AND THE TWO OTHER TANKS. APPROXIMATELY 4.88 ACRES WILL BE DISTURBED AS PART OF THE CONSTRUCTION. A VSMP PERMIT WILL BE REQUIRED FOR THIS PORTION OF THE PROJECT.

EXISTING SITE CONDITIONS:
CURRENTLY THE SPRING SITE HAS A TREATMENT BUILDING, A SMALL CONCRETE TANK AND A 250,000 GALLON WATER TANK ON IT. THE SPRING SITE HAS BEEN CLEARED OF ALL TREES. THE LOCATION OF THE FUTURE WATER TREATMENT BUILDING IS LOCATED JUST BELOW THE SPRING SITE AND IS CURRENTLY AN APPLE ORCHARD.

ADJACENT PROPERTIES:
THE SURROUND PROPERTY IS ZONED AGRICULTURAL. ALL MEASURES SHALL BE TAKEN TO ENSURE THAT THE SITE IS STABILIZED AND NO ADDITIONAL SEDIMENT IS DEPOSITED INTO THE DRAINAGE CHANNEL.

OFFSITE AREAS:
ALL GRADING SHALL OCCUR ON-SITE. ANY ADDITIONAL DIRT BORROWED OR WASTED FROM THE SITE WILL BE EITHER STOCKPILED OR REMOVED FROM A LOCATION CHOSEN BY THE CONTRACTOR AT A LATER DATE.

CRITICAL AREAS:
THE CRITICAL AREAS FOR THIS PROJECT WILL BE THE AREA AROUND THE SPRING AND THE PLACE WHERE THE WATERLINE CROSSES ANY STREAMS OR CREEKS. THE CONTRACTOR SHALL ENSURE THAT SILT FENCE IS INSTALLED AT ANY AREA NEAR THE SPRING AND CREEK.

SOILS:
ALL SOILS AROUND THE SPRING AND WATER TREATMENT PLANT SITE ARE CLASSIFIED AS WINTERGREEN LOAM, 8-15% SLOPES. SOILS IN THE REMAINDER OF THE PROJECT AREA VARY BETWEEN CLIFFORD-HICKORY KNOB COMPLEX AND HAYESVILLE LOAM.

EROSION AND SEDIMENT CONTROL MEASURES:
UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATION OF THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. THE MINIMUM STANDARDS OF THE HANDBOOK SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY VARIANCE.

SECTION 3.02- TEMPORARY STONE CONSTRUCTION ENTRANCE
MAINTENANCE
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.

SECTION 3.05- SILT FENCE
MAINTENANCE
1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SILT FENCE RESULTING FROM END RUNS AND UNDERCUTTING.
3. SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
4. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
5. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

SECTION 3.08- CULVERT INLET PROTECTION
MAINTENANCE
1. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
2. AGGREGATE SHALL BE REPLACED OR CLEANED WHEN INSPECTION REVEALS THAT CLOGGED VOIDS ARE CAUSING PONDING PROBLEMS WHICH INTERFERE WITH ON-SITE CONSTRUCTION.
3. SEDIMENT SHALL BE REMOVED AND THE IMPOUNDMENT RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA IN SUCH A MANNER THAT IT WILL NOT ERODE AND CAUSE SEDIMENTATION PROBLEMS.
4. TEMPORARY STRUCTURES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

SECTION 3.09- TEMPORARY DIVERSION DIKE
MAINTENANCE
1. THE MEASURE SHALL BE INSPECTED AFTER EVERY STORM AND REPAIRS MADE TO THE DIKE, FLOW CHANNEL, OUTLET OR SEDIMENT TRAPPING FACILITY, AS NECESSARY. ONCE EVERY TWO WEEKS, WHETHER A STORM EVENT HAS OCCURRED OR NOT, THE MEASURE SHALL BE INSPECTED AND REPAIRS MADE IF NEEDED. DAMAGES CAUSED BY CONSTRUCTION TRAFFIC OR OTHER ACTIVITY MUST BE REPAIRED BEFORE THE END OF EACH WORKING DAY.

SECTION 3.18- OUTLET PROTECTION
MAINTENANCE
1. OUTLET PROTECTION SHOULD BE CHECKED FOR SEDIMENT ACCUMULATION AFTER EACH RUNOFF-PRODUCING STORM EVENT. IT SHOULD BE INSPECTED PERIODICALLY TO DETERMINE IF HIGH FLOWS HAVE CAUSED SCOUR BENEATH THE RIPRAP OR FILTER FABRIC OR DISLODGED ANY OF THE STONE. CARE MUST BE TAKEN TO PROPERTY CONTROL SEDIMENT-LADEN CONSTRUCTION RUNOFF WHICH MAY DRAIN TO THE POINT OF THE NEW INSTALLATION. IF REPAIRS ARE NEEDED, THEY SHOULD BE ACCOMPLISHED IMMEDIATELY.

SECTION 3.31- TEMPORARY SEEDING
ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER BY PLANTING SEED ON ROUGH-GRADED AREAS THAT WILL BE BROUGHT TO FINAL GRADE BETWEEN 6 MONTHS AND A YEAR.

SECTION 3.32- PERMANENT SEEDING
MAINTENANCE
1. EVEN WITH CAREFUL, WELL-PLANNED SEEDING OPERATIONS, FAILURES CAN OCCUR. WHEN IT IS CLEAR THAT PLANTS HAVE NOT GERMINATED ON AN AREA OR HAVE DIED THESE AREAS MUST BE RESEEDED IMMEDIATELY TO PREVENT EROSION DAMAGE. HOWEVER, IT IS EXTREMELY IMPORTANT TO DETERMINE FOR WHAT REASON GERMINATION DID NOT TAKE PLACE AND MAKE ANY CORRECTIVE ACTION NECESSARY PRIOR TO RESEEDING THE AREA. HEALTHY VEGETATION IS THE MOST EFFECTIVE EROSION CONTROL AVAILABLE.

SECTION 3.35- MULCHING
MAINTENANCE
1. ALL MULCHES AND SOIL COVERINGS SHOULD BE INSPECTED PERIODICALLY (PARTICULARLY AFTER RAINSTORMS) TO CHECK FOR EROSION. WHERE EROSION IS OBSERVED IN MULCHED AREAS, ADDITIONAL MULCH SHOULD BE APPLIED. NETS AND MATS SHOULD BE INSPECTED AFTER RAINSTORMS FOR DISLOCATION OR FAILURE. IF WASHOUTS OR BREAKAGE OCCUR, RE-INSTALL NETTING OR MATTING AS NECESSARY AFTER REPAIRING DAMAGE TO THE SLOPE OR DITCH. INSPECTIONS SHOULD TAKE PLACE UP UNTIL GRASSES ARE FIRMLY ESTABLISHED. WHERE MULCH IS USED IN CONJUNCTION WITH ORNAMENTAL PLANTINGS, INSPECT PERIODICALLY THROUGHOUT THE YEAR TO DETERMINE IF MULCH IS MAINTAINING COVERAGE OF THE SOIL SURFACE; REPAIR AS NEEDED.

VEGETATIVE PRACTICES:

TEMPORARY SEEDING / PERMANENT STABILIZATION:
SEEDING MEASURES SHALL BE TAKEN ON DISTURBED SOIL AT CUT / FILL SLOPES, DITCH LINES, OR AREAS OUTSIDE OF ON-GOING CONSTRUCTION PRACTICES WITHIN SEVEN (7) DAYS OF COMPLETED GRADING. ALL AREAS DISTURBED BY CONSTRUCTION WILL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINAL GRADING.

SITE MAINTENANCE:

1. SILT FENCE BARRIERS SHALL BE CHECKED WEEKLY AND ESPECIALLY AFTER EACH RAINFALL EVENT, TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. IF ANY BARRIER IS DAMAGED DUE TO CONSTRUCTION ACTIVITIES, NATURAL CAUSES, OR ANY OTHER REASON, THE BARRIER SHALL BE REPAIRED OR REPLACED IMMEDIATELY. IF TRASH OR SEDIMENTATION REACHES ONE-HALF THE HEIGHT OF THE BARRIER, THE BARRIER SHALL BE CLEANED, AND RESTORED TO PROPER FUNCTIONING CONDITION.
2. ALL OTHER STRUCTURAL MEASURES ARE TO BE CHECKED WEEKLY AND ESPECIALLY AFTER EACH RAINFALL EVENT TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. ANY DAMAGED OR CLOGGED MEASURE SHALL BE CLEANED OUT OR REPAIRED IMMEDIATELY.
3. ALL SEDIMENT REMOVED FROM THE CONTROL DEVICES SHALL BE RE-SPREAD ON THE SITE ABOVE THE CONTROL DEVICES.
4. VEGETATION SHALL BE CHECKED WEEKLY TO INSURE PROPER AND ADEQUATE COVERAGE. BARE OR WASHED AREAS SHALL BE SCARIFIED AND RESEEDED UNTIL PERMANENT STABILIZATION HAS BEEN ACHIEVED.
5. ONCE SITE HAS ESTABLISHED AND SEDIMENT HAS CEASED TO BE CONVEYED ON THE SITE, ALL SILT FENCE BARRIERS AND INLET PROTECTION SHALL BE REMOVED FROM THE SITE.
6. OTHER CONTROLS.
   - A. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, GARBAGE AND DEBRIS SHALL BE DISCHARGED TO SURFACE WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A CWA SECTION 404 PERMIT.
   - B. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, MINIMIZATION OF TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ON THE PAVEMENT WILL BE PREVENTED BY PROPER USE AND MAINTENANCE OF THE CONSTRUCTION ENTRANCES AND CLEANING THE ROAD AT THE END OF EACH DAY.
   - C. STORAGE OF ONSITE MATERIALS WILL BE DONE TO MINIMIZE EXPOSURE OF THE MATERIALS TO STORMWATER AND SPILL PREVENTION AND RESPONSE.
   - D. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM.

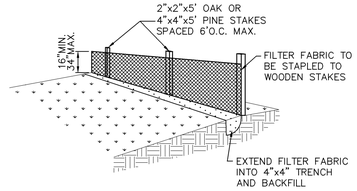
INSPECTIONS AND REPORTING:
FACILITY PERSONNEL WHO ARE FAMILIAR WITH THE CONSTRUCTION ACTIVITY, THE BMPS AND THE STORMWATER POLLUTION PREVENTION PLAN WILL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AND AREAS USED FOR STORAGE MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROLS AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE. THESE INSPECTIONS SHALL BE CONDUCTED EVERY 14 DAYS OR WITHIN 48 HOURS OF THE END OF A STORM EVENT THAT IS 0.5 INCHES OR GREATER.

EROSION AND SEDIMENT CONTROL DEVICES:

PERIMETER EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITY. AS CONSTRUCTION PROCEEDS, ALL ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS SOON AS POSSIBLE. EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLAN ARE A MINIMUM AND THE PROJECT CONDITION MAY DICTATE ADDITIONAL CONTROL. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PER THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.

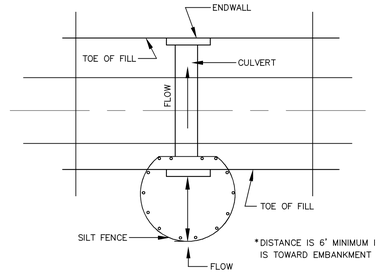
EROSION AND SEDIMENT CONTROL MAINTENANCE:

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES FOR THE DURATION OF THE PROJECT. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CHECKED WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL TO INSURE THAT ALL DEVICES ARE IN PLACE AND FUNCTIONING AS REQUIRED. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED PER THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. IN GENERAL, IF THE SILT BUILT UP BEHIND A BARRIER BECOMES AS DEEP AS 9 INCHES, THE SILT IS TO BE REMOVED AND THE BARRIER REPAIRED OR REPLACED. AFTER COMPLETION OF THE PROJECT, AND PERMANENT SEEDING HAS BEEN ESTABLISHED, EROSION CONTROL DEVICES AND ANY SILT BUILT UP SHALL BE REMOVED. DISTURBED AREAS DUE TO THIS CLEANUP OPERATION SHALL BE REPAIRED, RESEEDED AND REMULCHED.



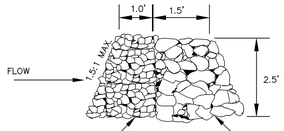
SF SILT FENCE
(WITHOUT WIRE SUPPORT)
N.T.S.

CIP SILT FENCE CULVERT INLET PROTECTION



*DISTANCE IS 6' MINIMUM IF FLOW IS TOWARD EMBANKMENT

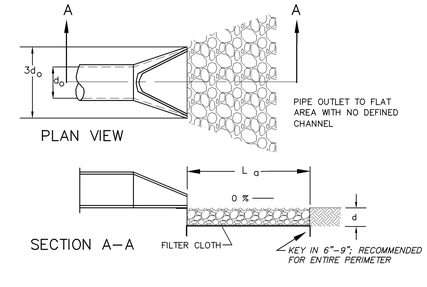
* OPTIONAL STONE COMBINATION

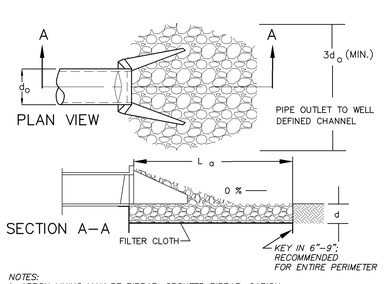


* VDOT #3, #357, #5, #56 OR #57 COARSE AGGREGATE TO REPLACE SILT FENCE IN "HORSESHOE" WHEN HIGH VELOCITY OF FLOW IS EXPECTED.

SOURCE: ADAPTED from VDOT Standard Sheets and Va. DSWC

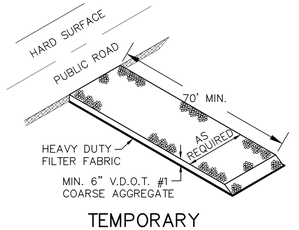
PLATE. 3.08-1



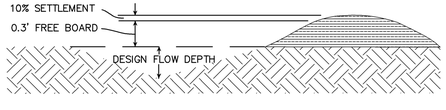


NOTES:
1. APRON LINING MAY BE RIPRAP, GROUTED RIPRAP, GABION BASKET, OR CONCRETE.
2. Lo IS THE LENGTH OF THE RIPRAP APRON AS CALCULATED USING PLATES 3.18-3 AND 3.18-4.
3. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER, BUT NOT LESS THAN 6 INCHES.

OP PIPE OUTLET PROTECTION
N.T.S.



TEMPORARY
CE CONSTRUCTION ENTRANCE
N.T.S.



TYPICAL VEE-SHAPED DIVERSION DD
N.T.S.

1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
4	3/14/12	ASBUILTS

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HURT & PROFFITT
INCORPORATED
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LYNCHBURG VA 24501
800.242.4906 TOLL FREE
434.847.7796 MAIN
434.847.0047 FAX

E&S NARRATIVE AND DETAILS-ASBUILT

FOR

TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 1

TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

PROJECT NO.	20080815
G.L. NO.	297-03-A3.9
FILE NO.	G-12675
DATE:	7/31/09
DRAWN BY:	WCH
CHECKED BY:	BLC

HURT & PROFFITT

SHEET NO.
C0.3

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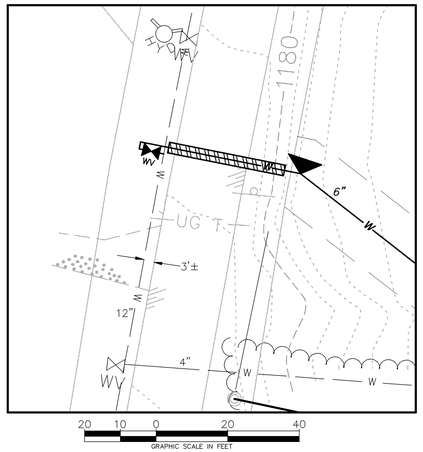
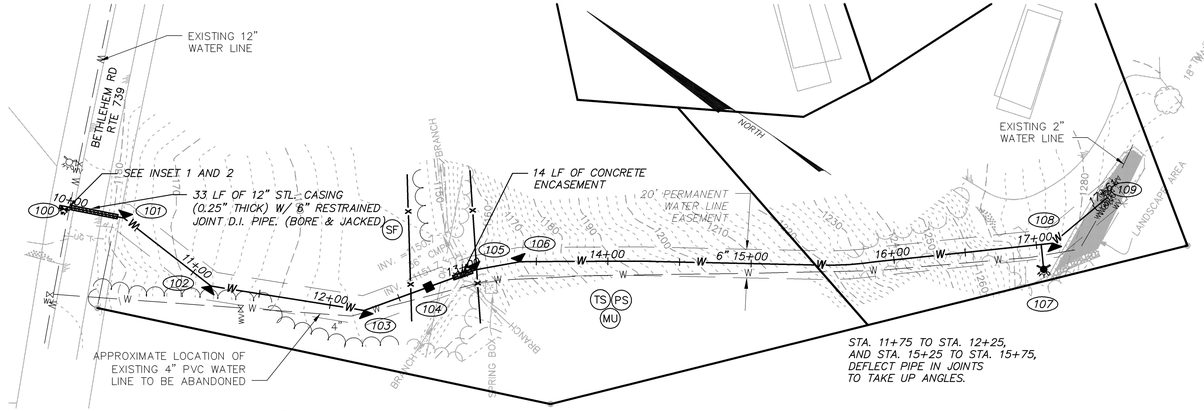


INSET 1



6" DIP WITH FIELD LOK GASKETS AND MEGALUGS ON VALVES/FITTINGS FROM:
STA. 10+00 – 10+48
STA. 13+00 – 17+61

6" PVC WITH BELL RESTRAINTS FROM:
STA. 10+48 – 11+07

STA. 11+75 TO STA. 12+25, AND STA. 15+25 TO STA. 15+75, DEFLECT PIPE IN JOINTS TO TAKE UP ANGLES.

WATER LINE STRUCTURE SCHEDULE

(100) STA. 10+00
REQ'D:
1–12" X 6" TAPPING SLEEVE
1–6" TAPPING VALVE AND BOX
2–90° VERTICAL BENDS
2–CONCRETE ANCHORS

(101) STA. 10+36±
REQ'D:
2–6" 90° VERTICAL BEND
2–CONCRETE ANCHOR

(102) STA. 11+15±
REQ'D:
1–6" 22.5° BEND
1–CONCRETE ANCHOR

(103) STA. 12+24±
REQ'D:
1–22.5° BEND
1–CONCRETE ANCHOR

(104) STA. 12+73±
REQ'D:
1–BLOW OFF ASSEMBLY
(SEE DETAIL BC–1)

(105) STA. 13+07±
REQ'D:
1–6" 22.5° VERTICAL BEND
1–CONCRETE ANCHOR

(106) STA. 13+39±
REQ'D:
1–6" 11.25° BEND
1–CONCRETE ANCHOR

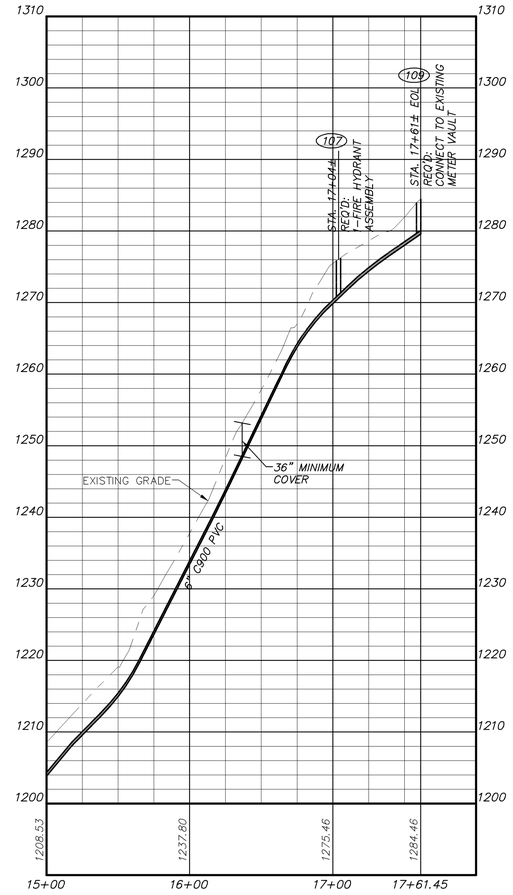
(107) STA. 17+04±
REQ'D:
1–FIRE HYDRANT ASSEMBLY

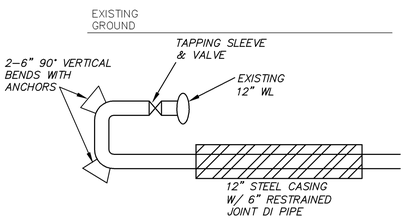
(108) STA. 17+11±
REQ'D:
1–6" 45° BEND
1–CONCRETE ANCHOR

(109) STA. 17+61± EOL
REQ'D:
CONNECT TO EXISTING METER VAULT

PROFILE INFORMATION TAKEN FROM RECORD DRAWINGS

HORIZ. SCALE 1" = 50'
VERT. SCALE 1" = 10'





INSET 2
N.T.S.

PROPOSED LEGEND

- WATER METER
- WATER LINE
- BLOW OFF ASSEMBLY
- AIR RELEASE
- FIRE HYDRANT
- CONCRETE ANCHOR
- GATE VALVE
- STEEL CASING
- SLOPE ANCHOR
- E.O.L. END OF LINE

EXISTING LEGEND

- ELECTRIC POLE
- GUY WIRE
- UTILITY PEDESTAL
- LIGHT POLE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- BENCHMARK
- SIGN
- CONCRETE PAD
- EDGE OF WOODS
- EXISTING FENCE LINE
- OVERHEAD ELECTRIC
- UG ELECTRIC LINE
- UG GAS LINE
- UG TELEPHONE LINE
- UG FIBER OPTIC LINE
- UG WATER LINE
- DITCH LINE

1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
4	3/14/12	ASBUILTS

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STA. 10+00 - 17+61± EOL HEATHERWOOD LANE-ASBUILT

FOR

TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 1

TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

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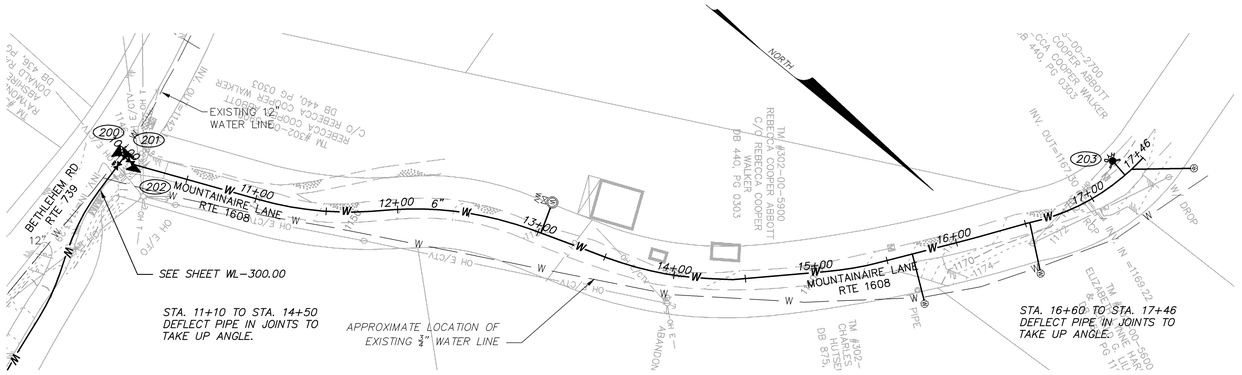
HURT & PROFFITT

SHEET NO.
WL-100.00



PROPOSED LEGEND

- WATER METER
- WATER LINE
- BLOW OFF ASSEMBLY
- AIR RELEASE
- FIRE HYDRANT
- CONCRETE ANCHOR
- GATE VALVE
- STEEL CASING
- SLOPE ANCHOR
- E.O.L. END OF LINE

EXISTING LEGEND

- ELECTRIC POLE
- GUY WIRE
- UTILITY PEDESTAL
- LIGHT POLE
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- EDGE OF GRAVEL
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- SIGN
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- EDGE OF WOODS
- EXISTING FENCE LINE
- OVERHEAD ELECTRIC
- UG ELECTRIC LINE
- UG GAS LINE
- UG TELEPHONE LINE
- UG FIBER OPTIC LINE
- UG WATER LINE
- DITCH LINE

WATER LINE STRUCTURE SCHEDULE

(200) STA. 10+00
REQ'D:
1–12" X 6" TAPPING SLEEVE
1–6" TAPPING VALVE AND BOX
1–CONCRETE ANCHOR

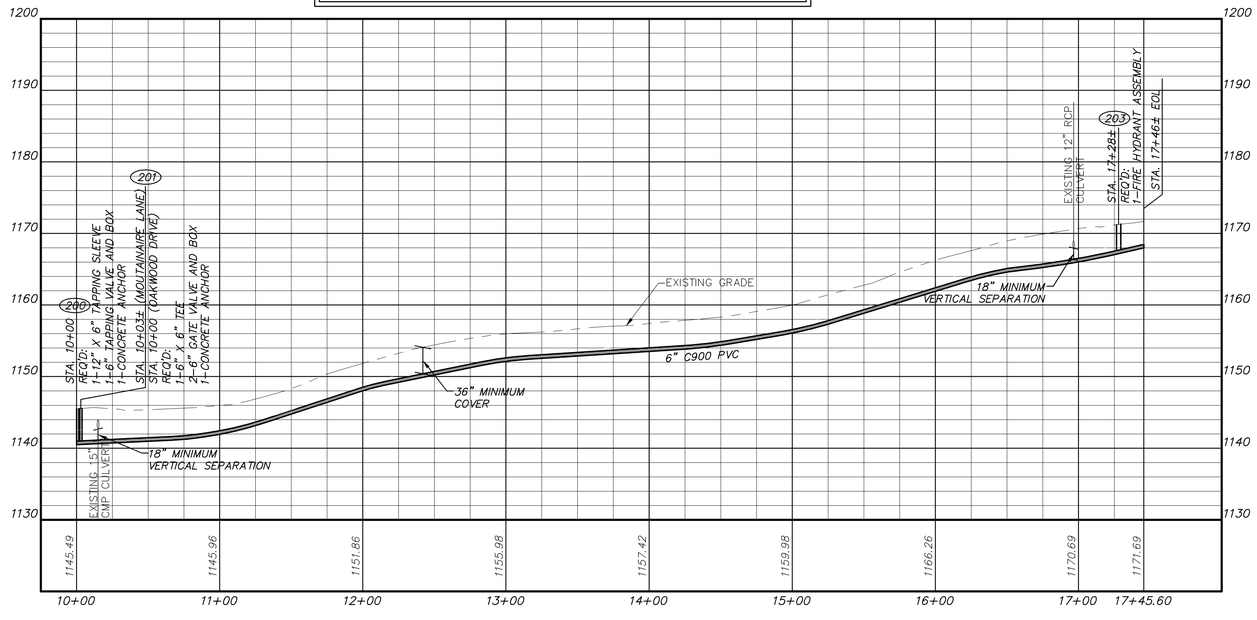
(201) STA. 10+03± (MOUNTAINAIRE LANE)
STA 10+00 (OAKWOOD DRIVE)
REQ'D:
1–6" X 6" TEE
2–6" GATE VALVE AND BOX
1–CONCRETE ANCHOR

(202) STA. 10+12±
REQ'D:
1–6" 22.5° BEND
1–CONCRETE ANCHOR

(203) STA. 17+28±
REQ'D:
1–FIRE HYDRANT ASSEMBLY

PROFILE INFORMATION TAKEN FROM RECORD DRAWINGS

LEGEND:
EXISTING GRADE
6" C900 PVC



HORIZ. SCALE 1" = 50'
50 25 0 50 100
10 05 0 10 20
VERT. SCALE 1" = 10'

1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
4	3/14/12	ASBUILTS

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STA. 10+00 - 17+46± EOL MOUNTAINAIRE LANE-ASBUILT
FOR
TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 1
TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

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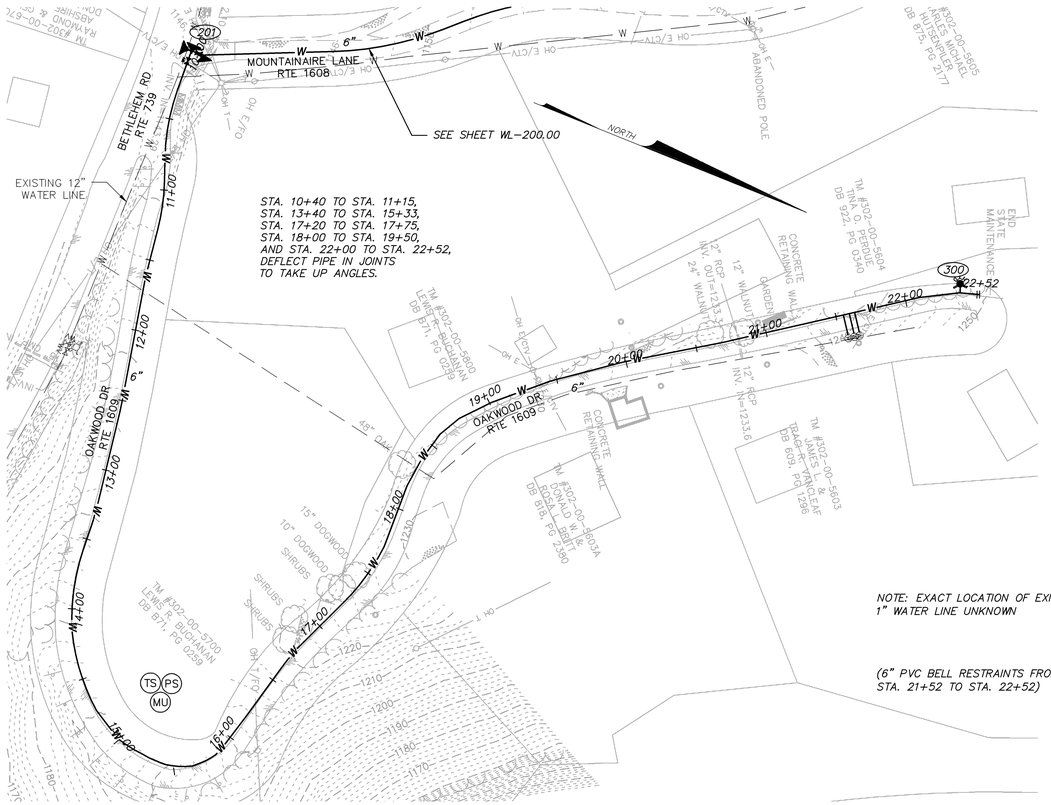
WL-200.00



PROFILE INFORMATION TAKEN FROM RECORD DRAWINGS

PROPOSED LEGEND

- WATER METER
- WATER LINE
- BLOW OFF ASSEMBLY
- AIR RELEASE
- FIRE HYDRANT
- CONCRETE ANCHOR
- GATE VALVE
- STEEL CASING
- SLOPE ANCHOR
- E.O.L. END OF LINE

EXISTING LEGEND

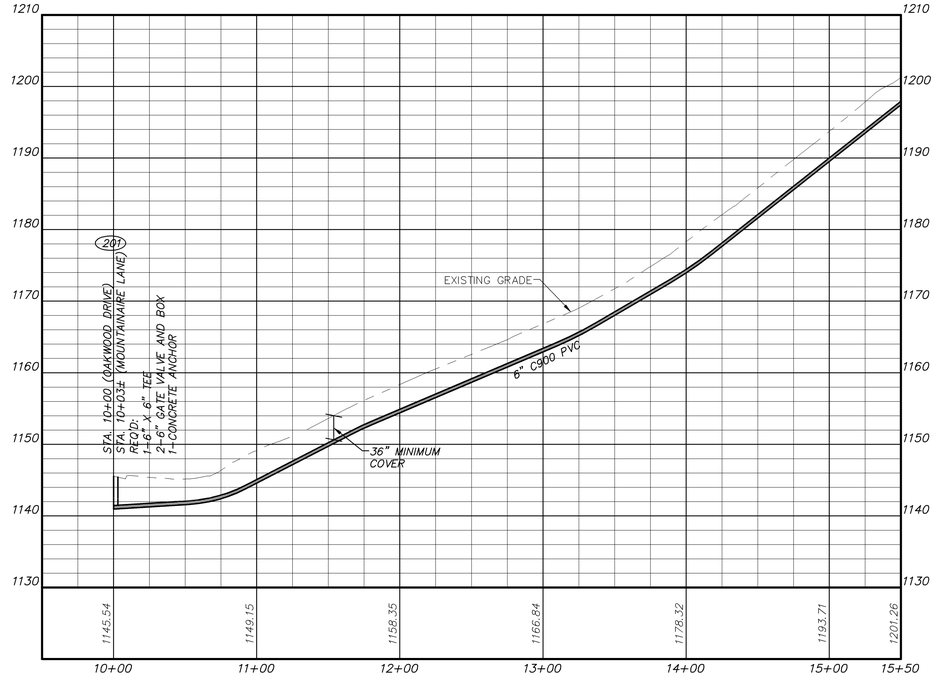
- ELECTRIC POLE
- GUY WIRE
- UTILITY PEDESTAL
- LIGHT POLE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- BENCHMARK
- SIGN
- CONCRETE PAD
- EDGE OF WOODS
- EXISTING FENCE LINE
- OVERHEAD ELECTRIC
- UG ELECTRIC LINE
- UG GAS LINE
- UG TELEPHONE LINE
- UG FIBER OPTIC LINE
- UG WATER LINE
- DITCH LINE

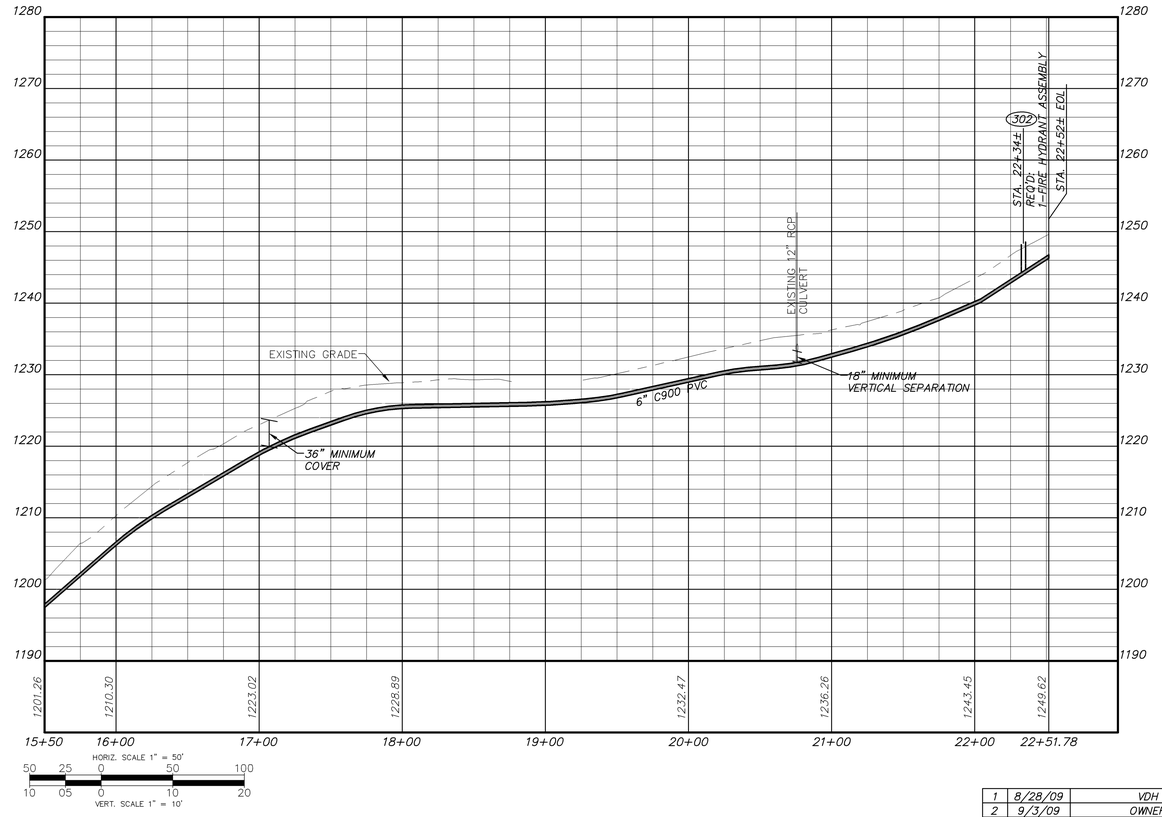
WATER LINE STRUCTURE SCHEDULE

(201) STA. 10+00 (OAKWOOD DRIVE)
STA. 10+03± (MOUNTAINAIRE LANE)
REQ'D:
1-6" X 6" TEE
2-6" GATE VALVE AND BOX
1-CONCRETE ANCHOR

(300) STA. 22+34±
REQ'D:
1-FIRE HYDRANT ASSEMBLY

LEGEND:
EXISTING GRADE
6" C900 PVC





1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
4	3/14/12	ASBUILTS

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434.847.0047 FAX

STA. 10+00 - 22+52± EOL OAKWOOD DRIVE-ASBUILT

FOR

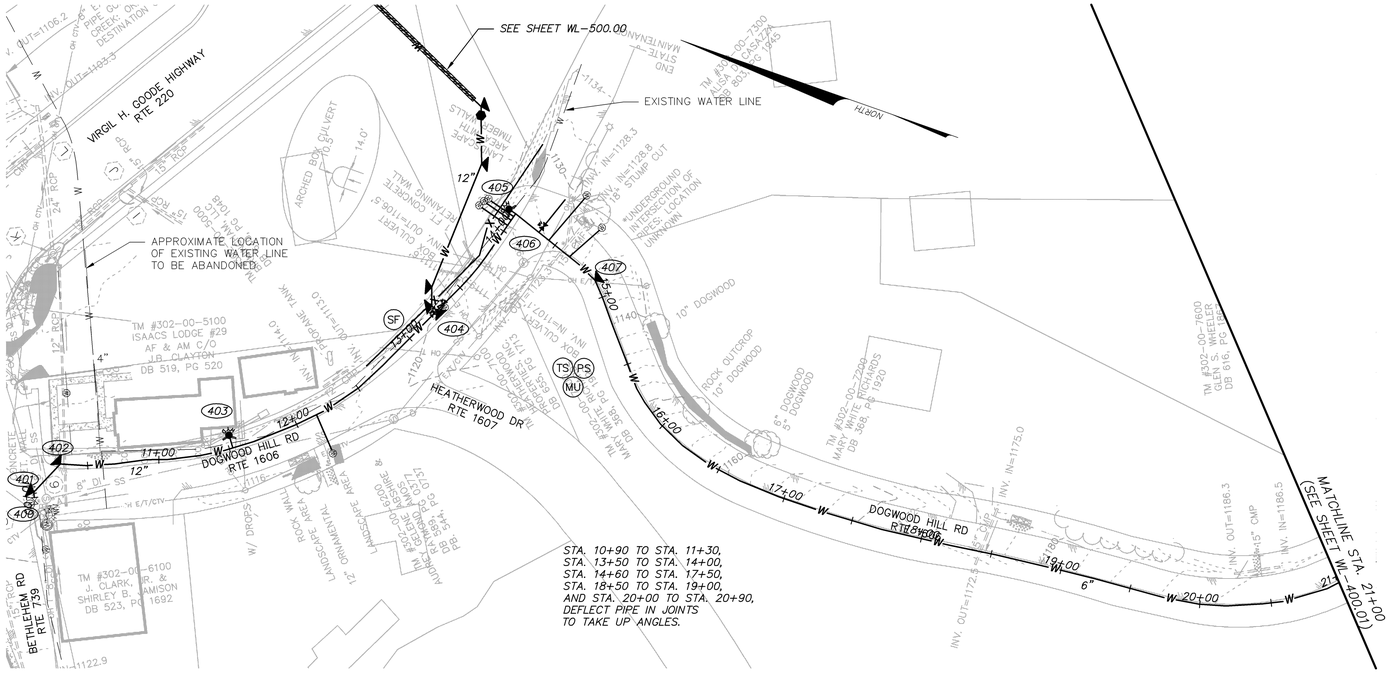
TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 1

TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

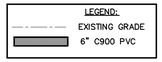
PROJECT NO.	20080815
G.L. NO.	297-03-A3.9
FILE NO.	G-12675
DATE:	7/31/09
DRAWN BY:	WCH
CHECKED BY:	BLC

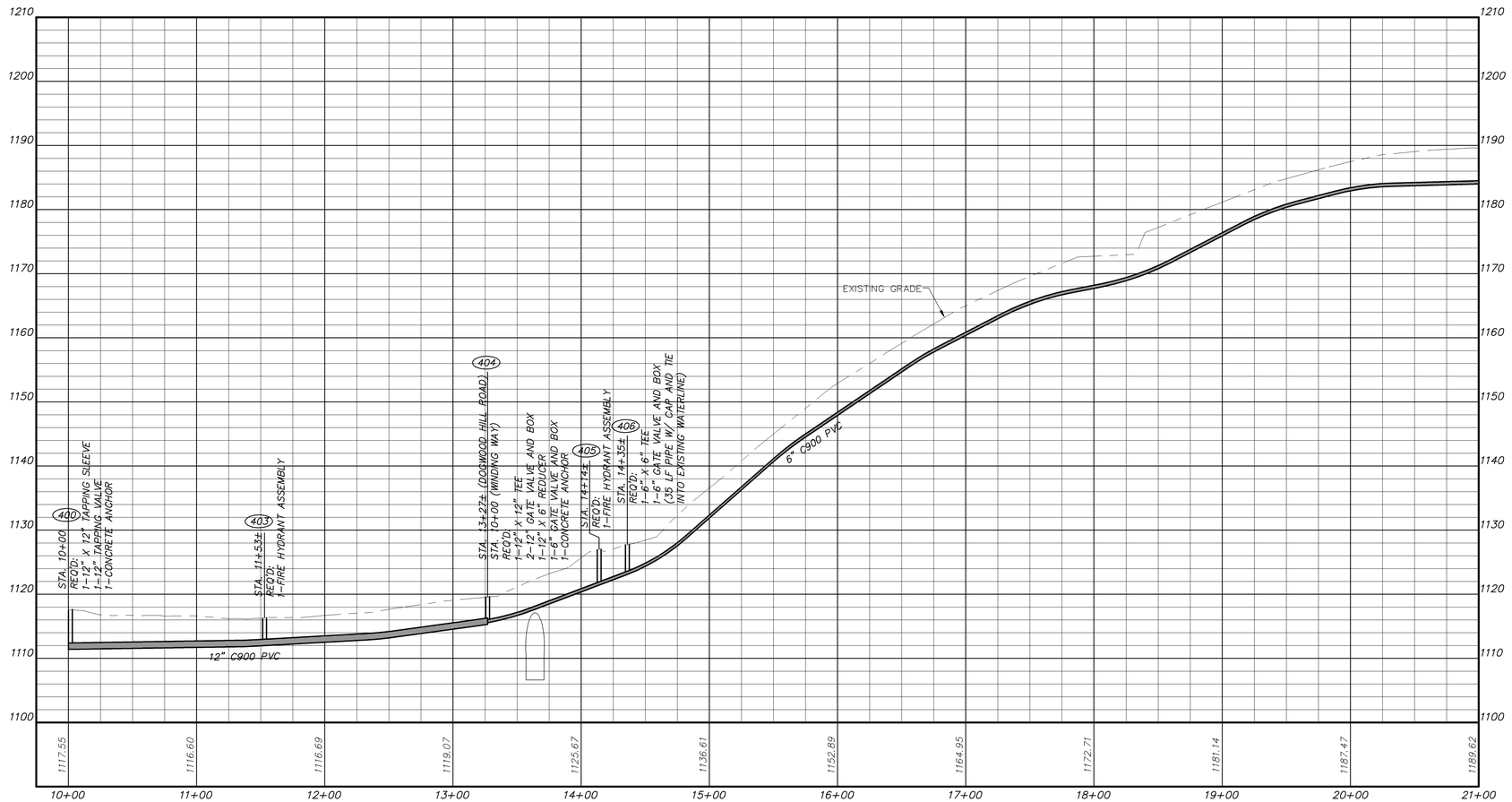
HURT & PROFFITT

SHEET NO.
WL-300.00



PROFILE INFORMATION TAKEN FROM RECORD DRAWINGS





WATER LINE STRUCTURE SCHEDULE

(400) STA. 10+00
REQ'D:
1–12" X 12" TAPPING SLEEVE
1–12" TAPPING VALVE
1–CONCRETE ANCHOR

(401) STA. 10+04±
REQ'D:
1–12" 45° BEND
1–CONCRETE ANCHOR

(402) STA. 10+31±
REQ'D:
1–12" 45° BEND
1–CONCRETE ANCHOR

(403) STA. 11+53±
REQ'D:
1–FIRE HYDRANT ASSEMBLY

(404) STA. 13+27± (DOGWOOD HILL ROAD)
STA. 10+00 (WINDING WAY)
REQ'D:
1–12" X 12" TEE
2–12" GATE VALVE AND BOX
1–12" X 6" REDUCER
1–6" GATE VALVE AND BOX
1–CONCRETE ANCHOR

(405) STA. 14+14±
REQ'D:
1–6" X 6" TEE
1–FIRE HYDRANT ASSEMBLY
1–CONCRETE ANCHOR

(406) STA. 14+36±
REQ'D:
1–6" X 6" TEE
1–6" GATE VALVE AND BOX
1–CONCRETE ANCHOR
(CONTRACTOR TO CONNECT EXISTING
2" LINE TO NEW WATER LINE)

(407) STA. 14+87±
REQ'D:
1–6" 22.5° BEND
1–CONCRETE ANCHOR

HORIZ. SCALE 1" = 50'
50 25 0 50 100
VERT. SCALE 1" = 10'
10 05 0 10 20

1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
4	3/14/12	ASBUILTS

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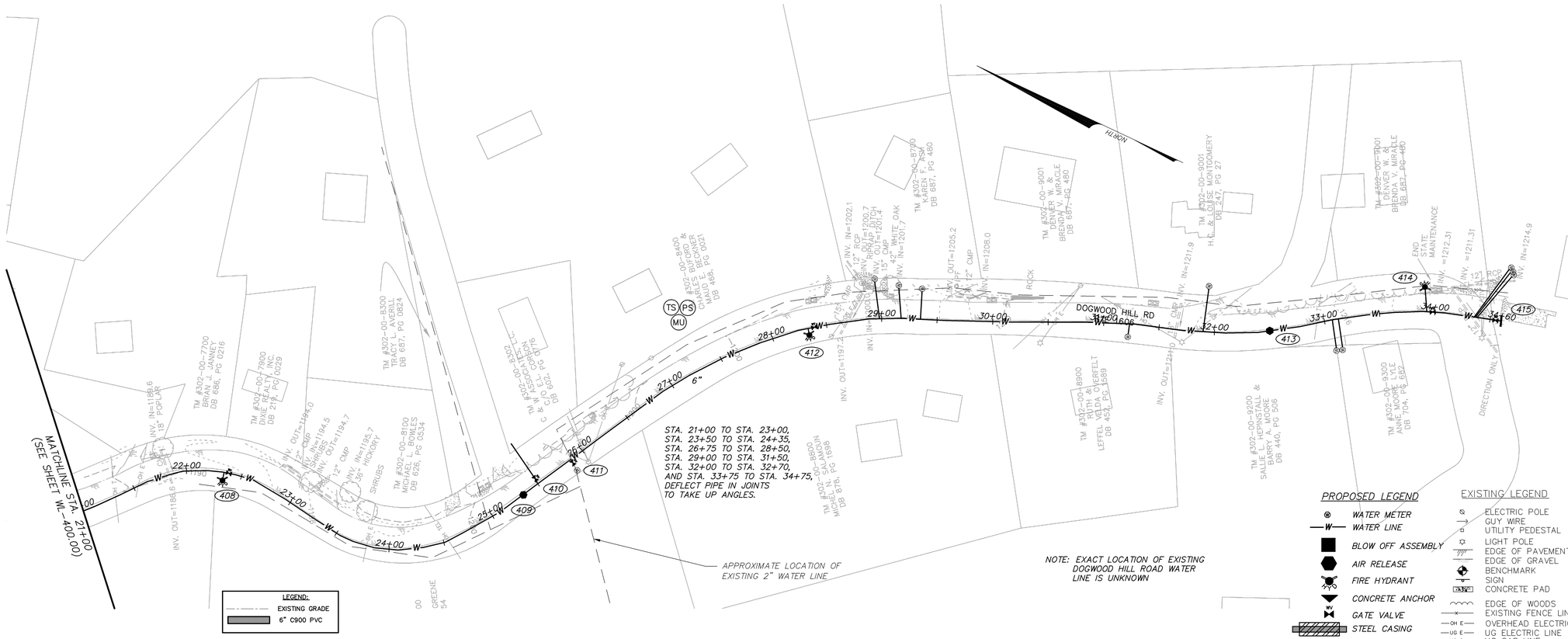
STA. 10+00 - 21+00 DOGWOOD HILL ROAD-ASBUILT
FOR
TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 1
TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

PROJECT NO.	20080815
G.L. NO.	297-03-A3.9
FILE NO.	G-12675
DATE:	7/31/09
DRAWN BY:	WCH
CHECKED BY:	BLC

HURT & PROFFITT

SHEET NO.
WL-400.00

Mar 14, 2012 – 10:28am V:\Land\Projects\20080815\dwg\Asbuilts-WL\ASBUILT-P_P-Water.dwg



WATER LINE STRUCTURE SCHEDULE

(408) STA. 22+34±
REQ'D:
1–FIRE HYDRANT ASSEMBLY
1–6" GATE VALVE AND BOX

(409) STA. 25+34±
REQ'D:
1–AIR RELEASE VALVE
(SEE DETAIL AR–1)

(410) STA. 25+50±
REQ'D:
1–6" X 2" TEE
1–2" GATE VALVE AND BOX

(411) STA. 25+87±
REQ'D:
1–6" X 2" TEE
1–2" GATE VALVE AND BOX

(412) STA. 28+33±
REQ'D:
1–FIRE HYDRANT ASSEMBLY
1–6" GATE VALVE AND BOX

(413) STA. 32+50±
REQ'D:
1–AIR RELEASE VALVE
(SEE DETAIL AR–1)

(414) STA. 33+90±
REQ'D:
1–FIRE HYDRANT ASSEMBLY
1–6" GATE VALVE AND BOX

(415) STA. 34+60± EOL
REQ'D:
1–BULKHEAD ASSEMBLY
1–6" GATE VALVE AND BOX
1–BLOW OFF ASSEMBLY

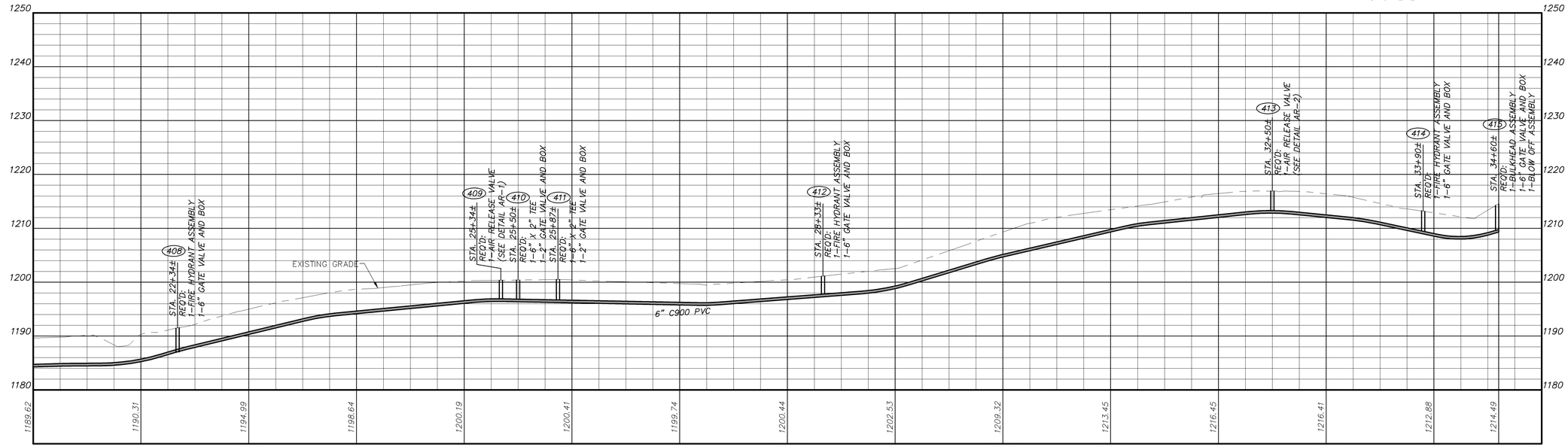
PROPOSED LEGEND

- WATER METER
- WATER LINE
- BLOW OFF ASSEMBLY
- AIR RELEASE
- FIRE HYDRANT
- CONCRETE ANCHOR
- GATE VALVE
- STEEL CASING
- SLOPE ANCHOR
- E.O.L. END OF LINE

EXISTING LEGEND

- ELECTRIC POLE
- GUY WIRE
- UTILITY PEDESTAL
- LIGHT POLE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- BENCHMARK
- SIGN
- CONCRETE PAD
- EDGE OF WOODS
- EXISTING FENCE LINE
- OVERHEAD ELECTRIC
- UG ELECTRIC LINE
- UG GAS LINE
- UG TELEPHONE LINE
- UG FIBER OPTIC LINE
- UG WATER LINE
- DITCH LINE

PROFILE INFORMATION TAKEN FROM RECORD DRAWINGS



HORIZ. SCALE 1" = 50'
50 25 0 50 100
VERT. SCALE 1" = 10'
10 05 0 10 20

1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
4	3/14/12	ASBUILTS

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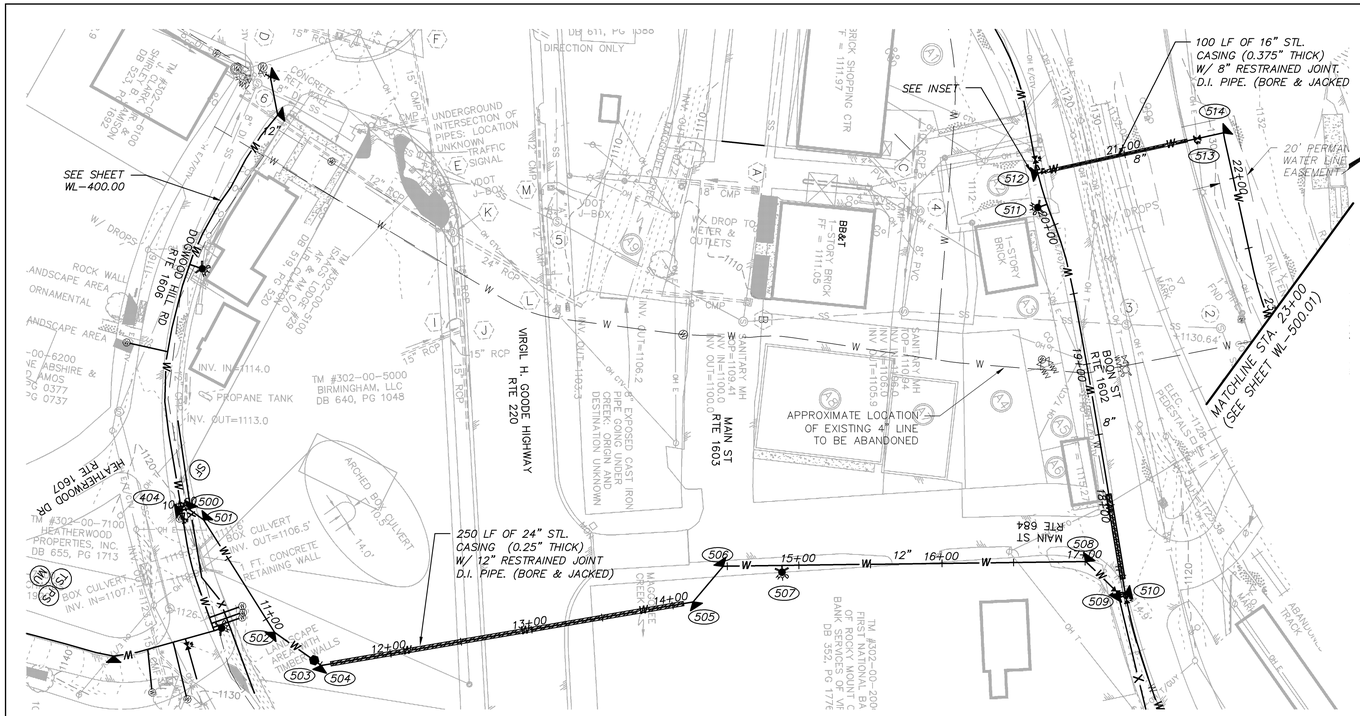
STA. 21+00 - 34+60± EOL DOGWOOD HILL ROAD-ASBUILT
FOR
WATER SYSTEM REPLACEMENT, VOLUME 1
TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

PROJECT NO.	20080815
G.L. NO.	297-03-A3.9
FILE NO.	G-12675
DATE:	7/31/09
DRAWN BY:	WCH
CHECKED BY:	BLC

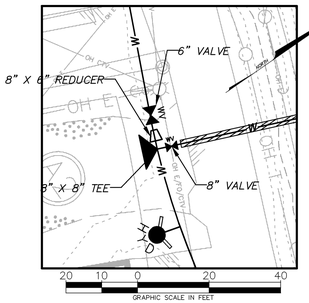
HURT & PROFFITT

SHEET NO.
WL-400.01



DIRECTIONAL DRILL FOR CROSSING US 220 & MAGGODEE CREEK

28.% DOWN	
31.7% DOWN	8'–2"
28.8% DOWN	12'–5"
21.3% DOWN	15'–2"
10.9% DOWN	16'–11"
1.9% DOWN	15'–7"
3.8% DOWN	16'–11"
4.6% DOWN	18'–5"
7.5% DOWN	20'–3"
6.8% DOWN	20'–7"
5.1% DOWN	10'–8"
3.8% DOWN	7'–10"
2.2% UP	7'–2"
7.1% UP	9'–6"
15.1% UP	9'–2"
19.9% UP	6'–1"



INSET

PROPOSED LEGEND

- WATER METER
- WATER LINE
- BLOW OFF ASSEMBLY
- AIR RELEASE
- FIRE HYDRANT
- CONCRETE ANCHOR
- GATE VALVE
- STEEL CASING
- SLOPE ANCHOR
- E.O.L. END OF LINE

EXISTING LEGEND

- ELECTRIC POLE
- GUY WIRE
- UTILITY PEDESTAL
- LIGHT POLE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- BENCHMARK
- SIGN
- CONCRETE PAD
- EDGE OF WOODS
- EXISTING FENCE LINE
- OVERHEAD ELECTRIC
- UG ELECTRIC LINE
- UG GAS LINE
- UG TELEPHONE LINE
- UG FIBER OPTIC LINE
- UG WATER LINE
- DITCH LINE

HORIZ. SCALE 1" = 50'
VERT. SCALE 1" = 10'

WATER LINE STRUCTURE SCHEDULE

(404) STA. 10+00 (WINDING WAY)
STA. 13+27± (DOGWOOD HILL ROAD)
REQ'D:
1–12" X 12" TEE
2–12" GATE VALVE AND BOX
1–12" X 6" REDUCER
1–6" GATE VALVE AND BOX
1–CONCRETE ANCHOR

(500) STA. 10+05±
REQ'D:
1–12" 45° BEND
1–CONCRETE ANCHOR

(501) STA. 10+18±
REQ'D:
1–12" 45° VERTICAL & HORIZONTAL BEND
2–CONCRETE ANCHOR

(502) STA. 11+11±
REQ'D:
1–12" 22.5° BEND
1–CONCRETE ANCHOR

(503) STA. 11+45±
REQ'D:
1–AIR RELEASE VALVE (SEE DETAIL AR–2)

(504) STA. 11+51±
REQ'D:
1–12" 45° BEND
1–CONCRETE ANCHOR

(505) STA. 14+14±
REQ'D:
1–12" 45° BEND
1–CONCRETE ANCHOR

(506) STA. 14+47±
REQ'D:
1–12" 45° BEND
1–CONCRETE ANCHOR

(507) STA. 14+88±
REQ'D:
1–FIRE HYDRANT ASSEMBLY

(508) STA. 17+00±
REQ'D:
1–12" 45° BEND
1–CONCRETE ANCHOR

(509) STA. 17+32±
REQ'D:
1–12" 45° BEND
1–12" 22.5° BEND
2–CONCRETE ANCHOR

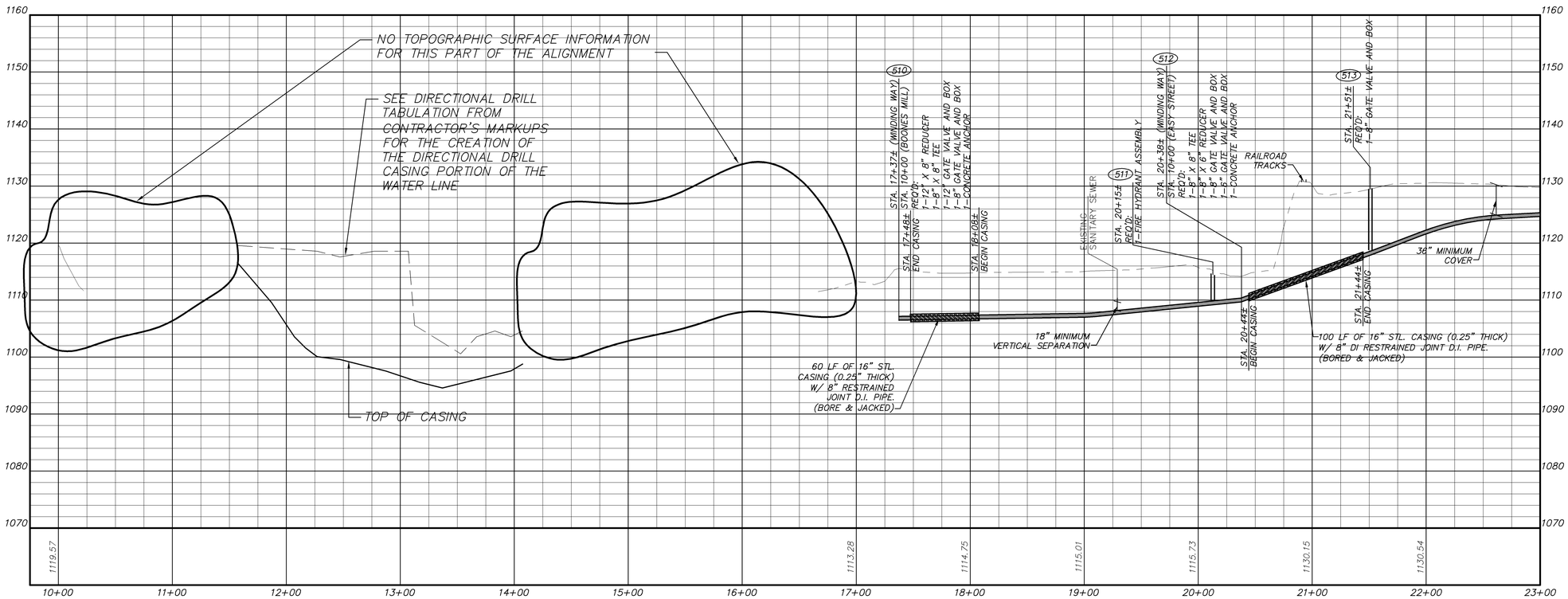
(510) STA. 17+37± (WINDING WAY)
STA. 10+00 (BOONES MILL)
REQ'D:
1–12" X 8" REDUCER
1–8" X 8" TEE
1–12" GATE VALVE AND BOX
1–8" GATE VALVE AND BOX
1–CONCRETE ANCHOR

(511) STA. 20+15±
REQ'D:
1–FIRE HYDRANT ASSEMBLY

(512) STA. 20+38± (WINDING WAY)
STA. 10+00 (EASY STREET)
REQ'D:
1–8" X 8" TEE
1–8" X 6" REDUCER
1–8" GATE VALVE AND BOX
1–6" GATE VALVE AND BOX
1–CONCRETE ANCHOR

(513) STA. 21+51±
REQ'D:
1–8" GATE VALVE AND BOX

(514) STA. 21+69±
REQ'D;
1–8" 90° HORIZONTAL & VERTICAL BEND
1–CONCRETE ANCHOR



1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
3	2/17/10	REVISED ALIGNMENT
4	3/14/12	ASBUILTS

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LYNCHBURG VA 24501
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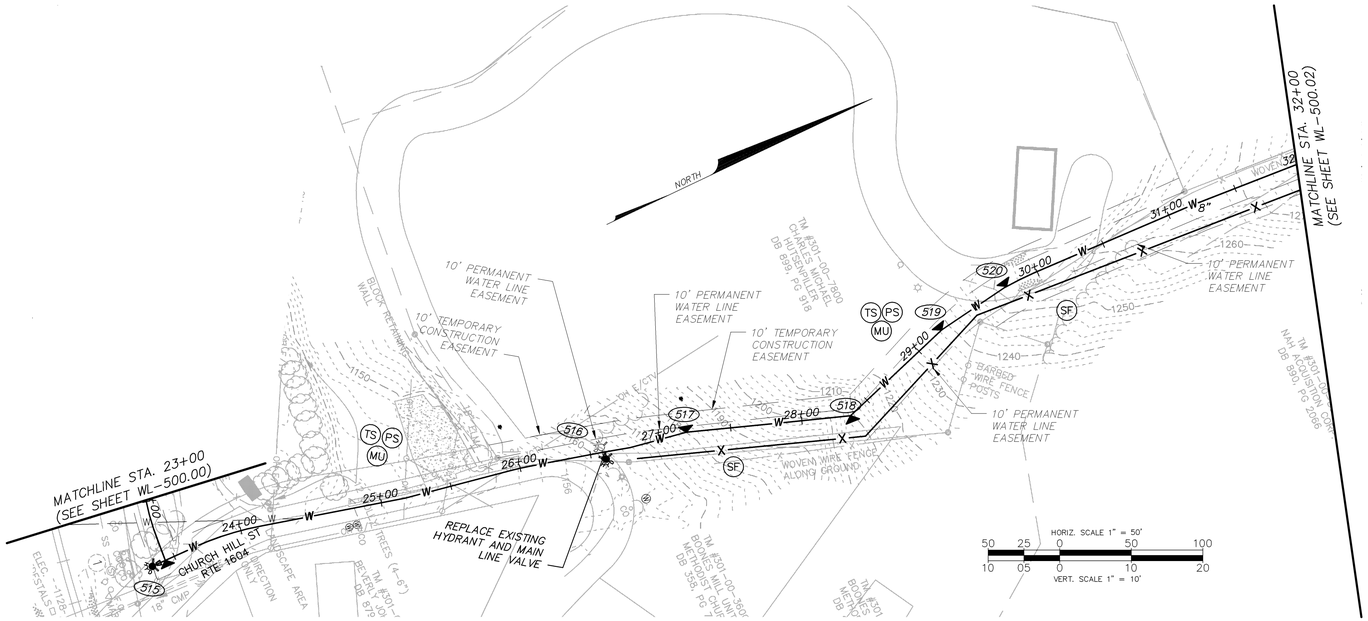
STA. 10+00 - 23+00± WINDING WAY-ASBUILT
FOR
TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 1
TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

PROJECT NO.	20080815
G.L. NO.	297-03-A3.9
FILE NO.	G-12675
DATE:	7/31/09
DRAWN BY:	WCH
CHECKED BY:	BLC

HURT & PROFFITT

SHEET NO.
WL-500.00



WATER LINE STRUCTURE SCHEDULE

(515) STA. 23+42±
REQ'D:
1–8" X 8" TEE
1–8" X 6" REDUCER
1–FIRE HYDRANT ASSEMBLY
1–CONCRETE ANCHOR

(516) STA. 26+61±
REQ'D:
REMOVE AND DISPOSE OF EXISTING HYDRANT ASSEMBLY
1–FIRE HYDRANT ASSEMBLY

(517) STA. 27+19±
REQ'D:
1–8" 22.5° BEND
1– CONCRETE ANCHOR

(518) STA. 28+34±
REQ'D:
1–8" 45° BEND
1–CONCRETE ANCHOR

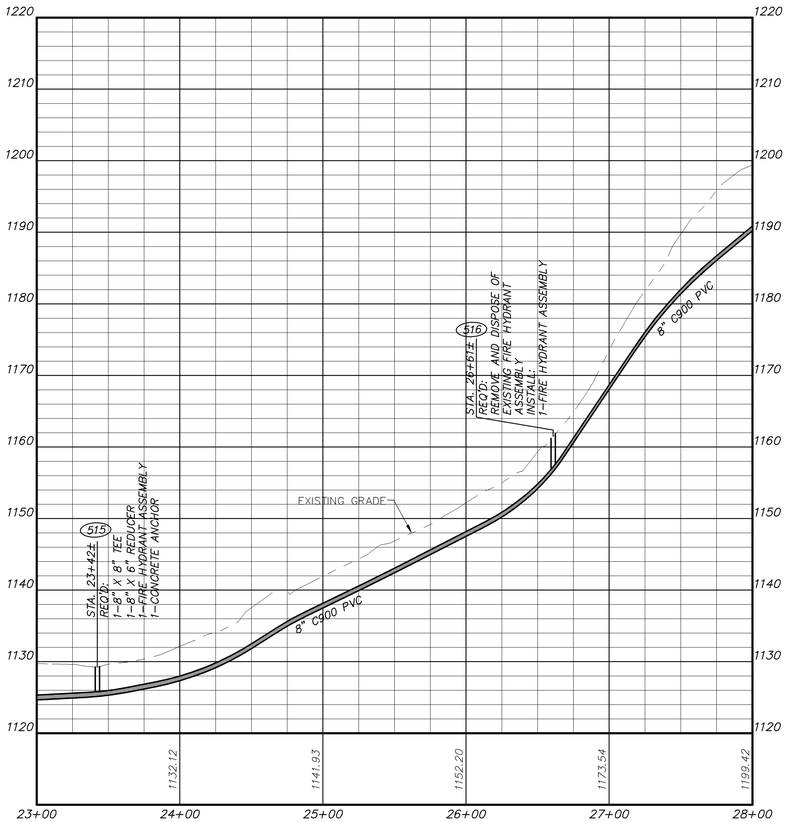
(519) STA. 29+22±
REQ'D:
1–8" 22.5° BEND
1–CONCRETE ANCHOR

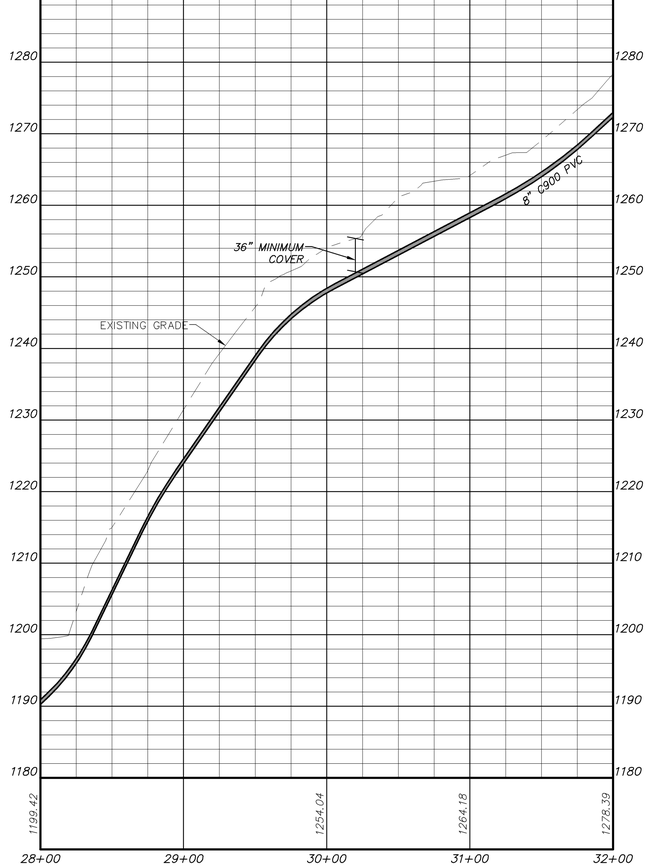
(520) STA. 29+76±
REQ'D:
1–8" 11.25° BEND
1–CONCRETE ANCHOR

EXISTING LEGEND

- ELECTRIC POLE
- GUY WIRE
- UTILITY PEDESTAL
- LIGHT POLE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- BENCHMARK
- SIGN
- CONCRETE PAD
- EDGE OF WOODS
- EXISTING FENCE LINE
- OH E — OVERHEAD ELECTRIC
- UG E — UG ELECTRIC LINE
- UG G — UG GAS LINE
- UG T — UG TELEPHONE LINE
- UG FO — UG FIBER OPTIC LINE
- W — UG WATER LINE
- DITCH LINE

LEGEND:
- EXISTING GRADE
- 8" C900 PVC





PROPOSED LEGEND

- WATER METER
- W — WATER LINE
- BLOW OFF ASSEMBLY
- AIR RELEASE
- FIRE HYDRANT
- CONCRETE ANCHOR
- GATE VALVE
- STEEL CASING
- SLOPE ANCHOR
- E.O.L. END OF LINE

1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
4	3/14/12	ASBUILTS

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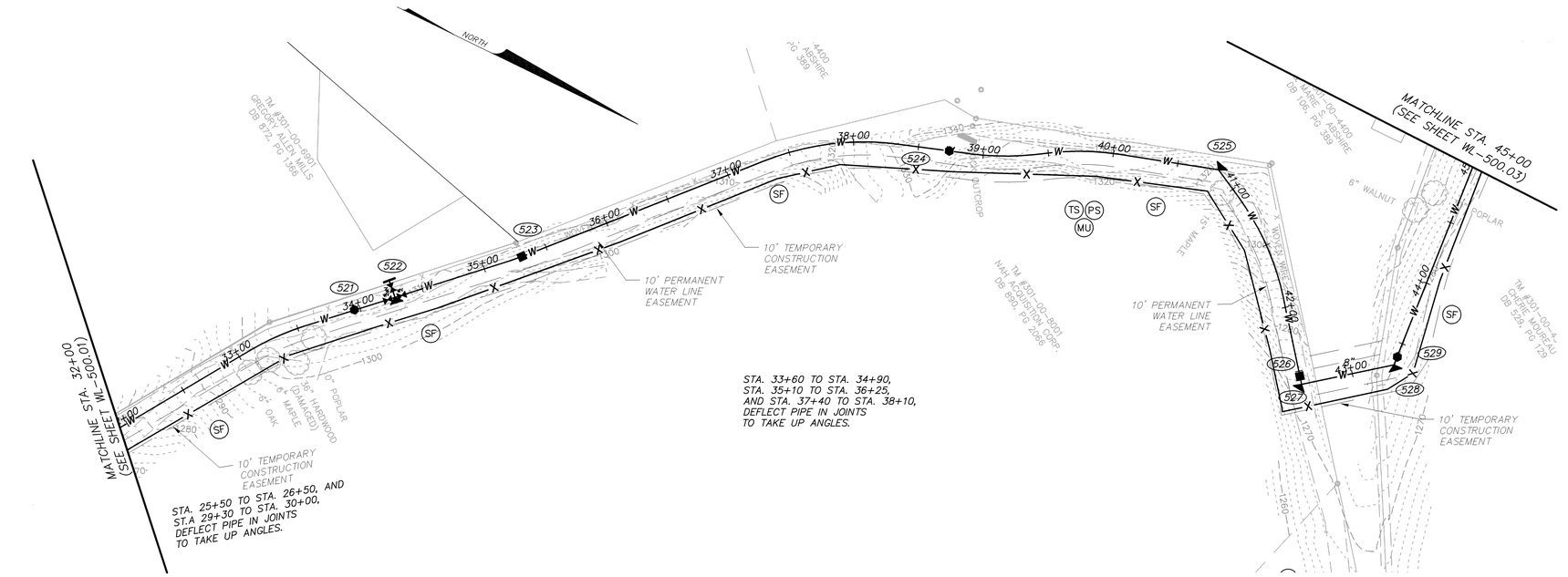
STA. 23+00 - 32+00± WINDING WAY-ASBUILT
FOR
TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 1
TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

PROJECT NO.	20080815
G.L. NO.	297-03-A3.9
FILE NO.	G-12675
DATE:	7/31/09
DRAWN BY:	WCH
CHECKED BY:	BLC

HURT & PROFFITT

SHEET NO.
WL-500.01



LEGEND:
- EXISTING GRADE
- 8" C900 PVC

HORIZ. SCALE 1" = 50'
VERT. SCALE 1" = 10'

WATER LINE STRUCTURE SCHEDULE

(521) STA. 33+96±
REQ'D:
1–AIR RELEASE VALVE
(SEE DETAIL AR–2)

(522) STA. 34+28±
REQ'D:
1–8" X 8" TEE
3–8" GATE VALVE AND BOX
1–BULKHEAD ASSEMBLY
1–CONCRETE ANCHOR
CONTRACTOR TO COORDINATE EXACT LOCATION OF TEE WITH TOWN

(523) STA. 35+30±
REQ'D:
1–BLOW OFF ASSEMBLY
(SEE DETAIL BC–1)

(524) STA. 38+74±
REQ'D:
1–AIR RELEASE VALVE
(SEE DETAIL AR–2)

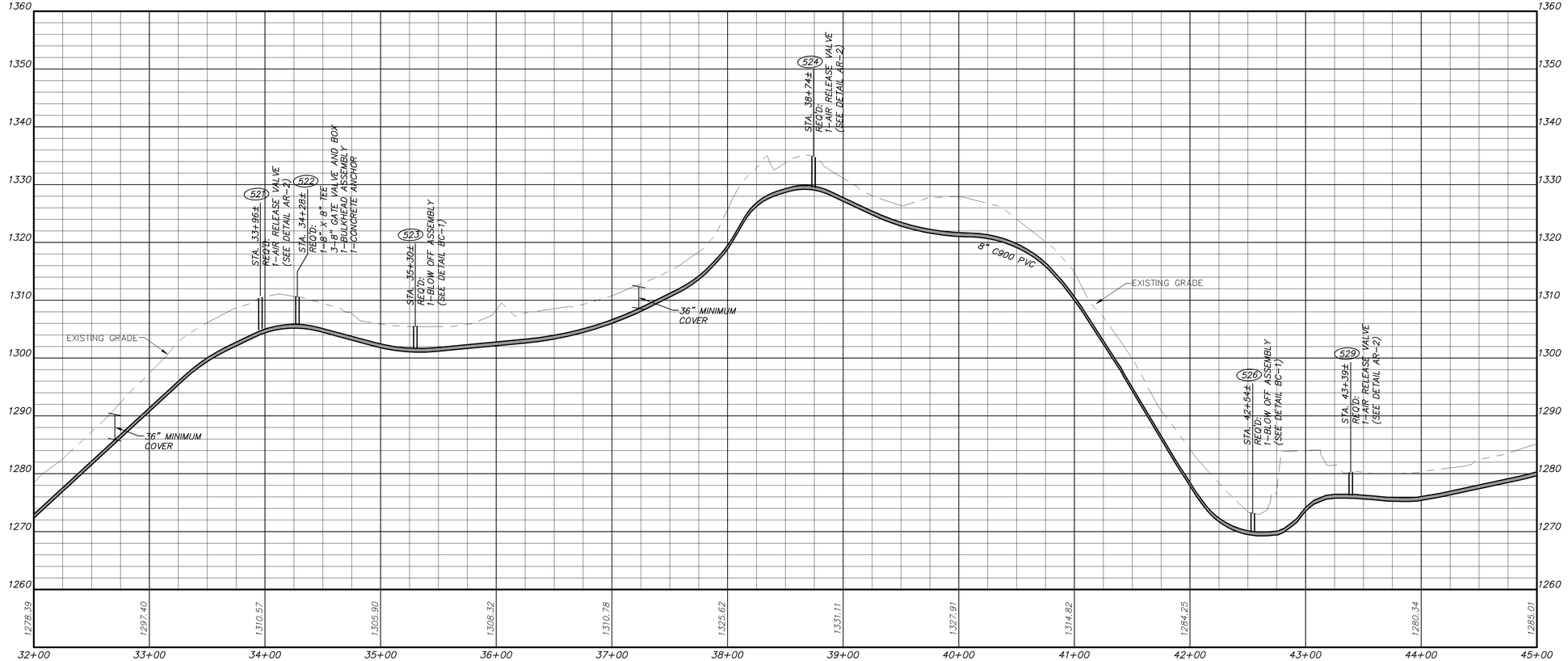
(525) STA. 40+81±
REQ'D:
1–8" 45° BEND
1–CONCRETE ANCHOR

(526) STA. 42+54±
REQ'D:
1–BLOW OFF ASSEMBLY
(SEE DETAIL BC–1)

(527) STA. 42+61±
REQ'D:
1–8" 90° BEND
1–CONCRETE ANCHOR

(528) STA. 43+33±
REQ'D:
1–8" 45° BEND
1–CONCRETE ANCHOR

(529) STA. 43+39±
REQ'D:
1–AIR RELEASE VALVE
(SEE DETAIL AR–2)



EXISTING LEGEND
- ELECTRIC POLE
- GUY WIRE
- UTILITY PEDESTAL
- LIGHT POLE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- BENCHMARK
- SIGN
- CONCRETE PAD
- EDGE OF WOODS
- EXISTING FENCE LINE
- OVERHEAD ELECTRIC
- UG ELECTRIC LINE
- UG GAS LINE
- UG TELEPHONE LINE
- UG FIBER OPTIC LINE
- UG WATER LINE
- DITCH LINE

PROPOSED LEGEND
- WATER METER
- WATER LINE
- BLOW OFF ASSEMBLY
- AIR RELEASE
- FIRE HYDRANT
- CONCRETE ANCHOR
- GATE VALVE
- STEEL CASING
- SLOPE ANCHOR
- E.O.L. END OF LINE

1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
4	3/14/12	ASBUILTS

HURT & PROFFITT
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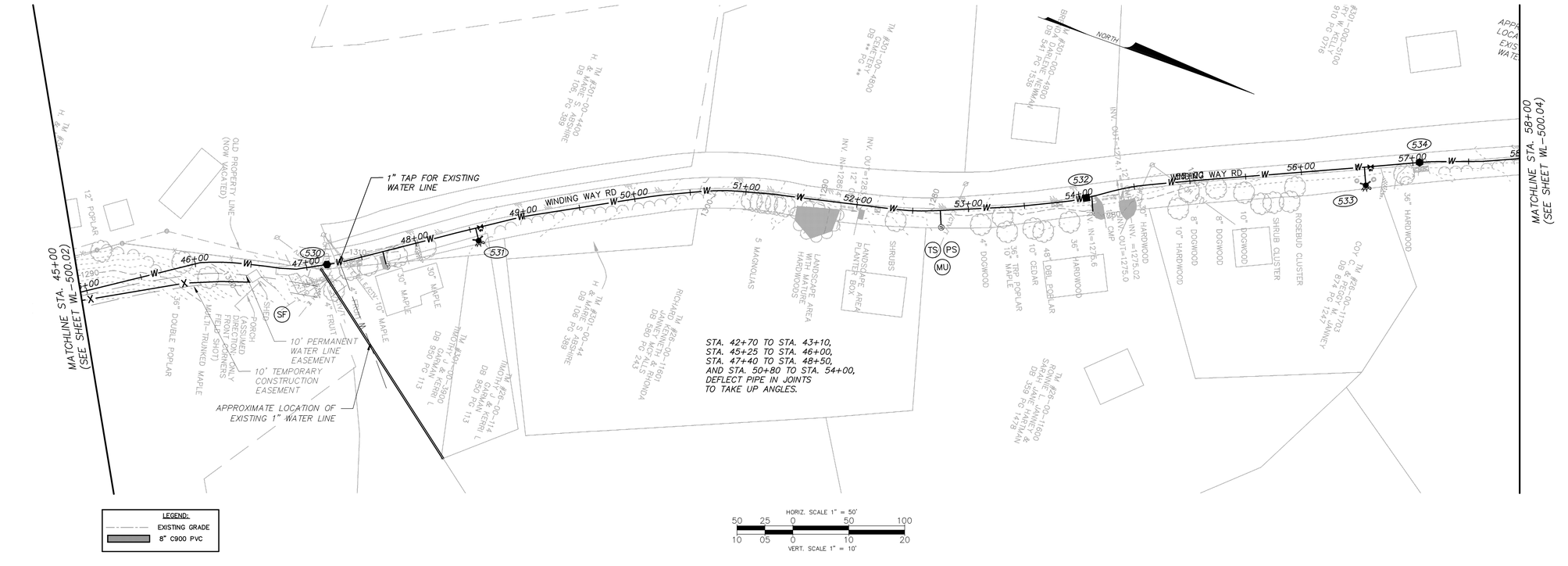
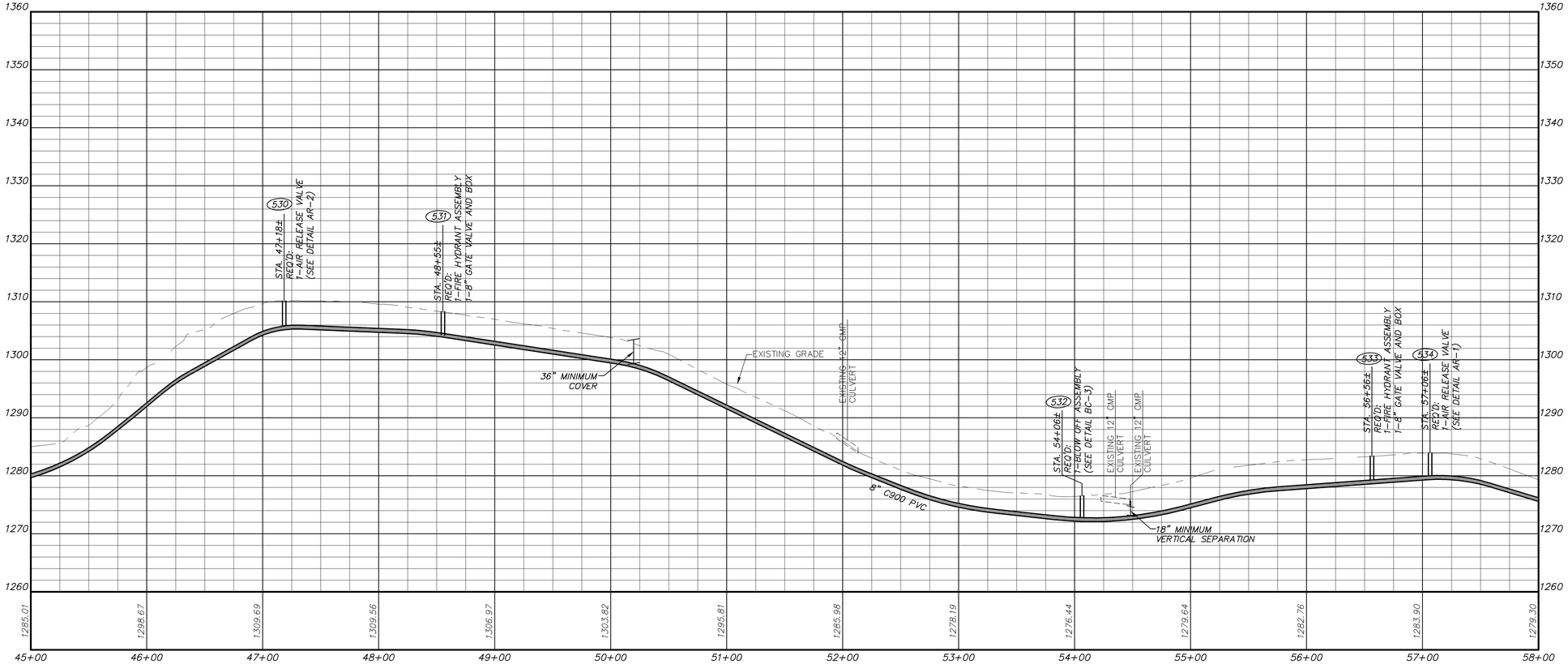
STA. 32+00 - 45+00± WINDING WAY-ASBUILT
FOR
TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 1
TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

PROJECT NO.	20080815
G.L. NO.	297-03-A3.9
FILE NO.	G-12675
DATE:	7/31/09
DRAWN BY:	WCH
CHECKED BY:	BLC

HURT & PROFFITT

SHEET NO.
WL-500.02





EXISTING LEGEND

- ELECTRIC POLE
- GUY WIRE
- UTILITY PEDESTAL
- LIGHT POLE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- BENCHMARK
- SIGN
- CONCRETE PAD
- EDGE OF WOODS
- EXISTING FENCE LINE
- OVERHEAD ELECTRIC
- UG ELECTRIC LINE
- UG GAS LINE
- UG TELEPHONE LINE
- UG FIBER OPTIC LINE
- UG WATER LINE
- DITCH LINE

PROPOSED LEGEND

- WATER METER
- WATER LINE
- BLOW OFF ASSEMBLY
- AIR RELEASE
- FIRE HYDRANT
- CONCRETE ANCHOR
- GATE VALVE
- STEEL CASING
- SLOPE ANCHOR
- E.O.L. END OF LINE

WATER LINE STRUCTURE SCHEDULE

(530) STA. 47+18±
REQ'D:
1–AIR RELEASE VALVE
(SEE DETAIL AR–2)

(531) STA. 48+55±
REQ'D:
1–FIRE HYDRANT ASSEMBLY
1–8" GATE VALVE AND BOX

(532) STA. 54+06±
REQ'D:
1–BLOW OFF ASSEMBLY
(SEE DETAIL BC–3)

(533) STA. 56+56±
REQ'D:
1–FIRE HYDRANT ASSEMBLY
1–8" GATE VALVE AND BOX

(534) STA. 57+06±
REQ'D:
1–AIR RELEASE VALVE
(SEE DETAIL AR–1)

1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
4	3/14/12	ASBUILTS

HURT & PROFFITT
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LYNCHBURG VA 24501
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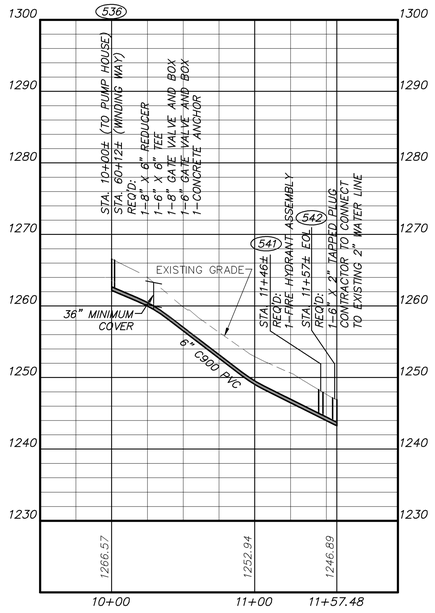
434.847.0047 FAX

STA. 45+00 - 58+00± WINDING WAY-ASBUILT
FOR
TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 1
TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

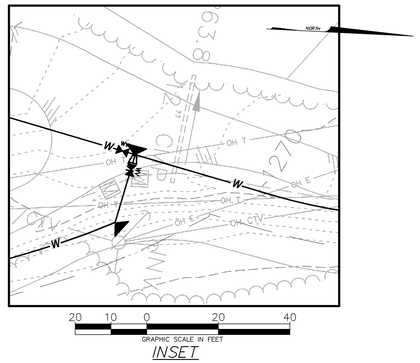
PROJECT NO.	20080815
G.L. NO.	297-03-A3.9
FILE NO.	G-12675
DATE:	7/31/09
DRAWN BY:	WCH
CHECKED BY:	BLC

HURT & PROFFITT

SHEET NO.
WL-500.03



LINE TO PUMP HOUSE



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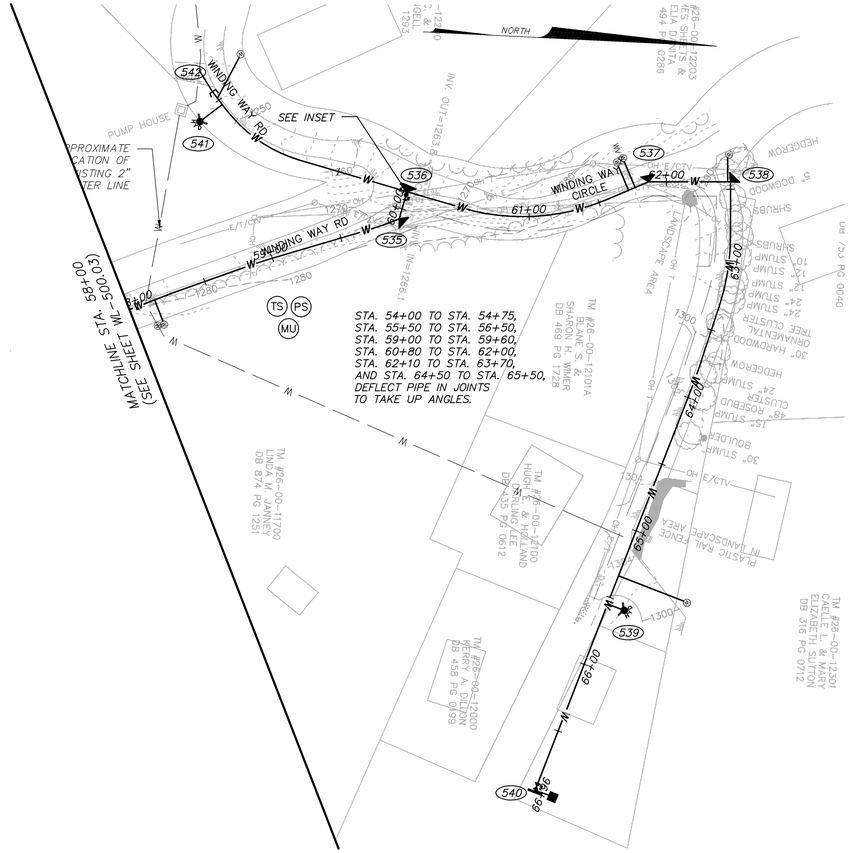


HORIZ. SCALE 1" = 50'
50 25 0 50 100
VERT. SCALE 1" = 10'
10 05 0 10 20

WATER LINE STRUCTURE SCHEDULE

(535) STA. 59+92±
REQ'D:
1–8" 45° BEND
1–8" 22.5° BEND
2–CONCRETE ANCHOR

(536) STA. 60+12± (WINDING WAY)
STA. 10+00 (LINE TO PUMP HOUSE)
REQ'D:
1–8" X 6" REDUCER
1–6" X 6" TEE
1–8" GATE VALVE AND BOX
1–6" GATE VALVE AND BOX
1–CONCRETE ANCHOR

(537) STA. 61+87±
REQ'D:
1–6" 22.5° BEND
1–CONCRETE ANCHOR

(538) STA. 62+45±
REQ'D:
1–6" 90° BEND
1–CONCRETE ANCHOR

(539) STA. 65+54±
REQ'D:
1–FIRE HYDRANT ASSEMBLY

(540) STA. 66+96± EOL (WINDING WAY)
1–6" GATE VALVE AND BOX
1–BLOW OFF ASSEMBLY

(541) STA. 11+46± (LINE TO PUMP HOUSE)
REQ'D:
1–FIRE HYDRANT ASSEMBLY

(542) STA. 11+57± EOL (LINE TO PUMP HOUSE)
REQ'D:
1–6" X 2" TAPPED PLUG
CONTRACTOR TO CONNECT TO
EXISTING 2" WATER LINE

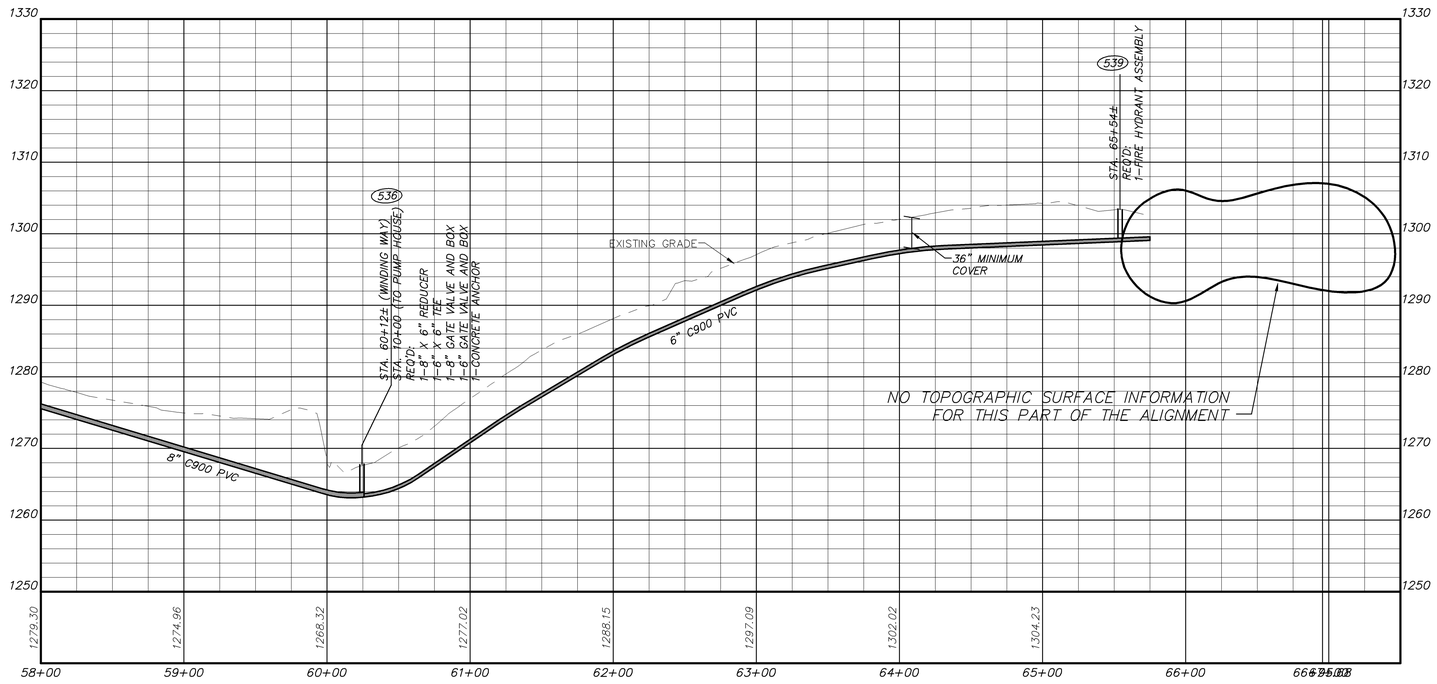
PROPOSED LEGEND

- WATER METER
- WATER LINE
- BLOW OFF ASSEMBLY
- AIR RELEASE
- FIRE HYDRANT
- CONCRETE ANCHOR
- GATE VALVE
- STEEL CASING
- SLOPE ANCHOR
- E.O.L. END OF LINE

EXISTING LEGEND

- ELECTRIC POLE
- GUY WIRE
- UTILITY PEDESTAL
- LIGHT POLE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- BENCHMARK
- SIGN
- CONCRETE PAD
- EDGE OF WOODS
- EXISTING FENCE LINE
- OVERHEAD ELECTRIC
- UG ELECTRIC LINE
- UG GAS LINE
- UG TELEPHONE LINE
- UG FIBER OPTIC LINE
- UG WATER LINE
- DITCH LINE

LEGEND:
EXISTING GRADE
C900 PVC



1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
4	3/14/12	ASBUILTS

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STA. 58+00 - 66+96± EOL WINDING WAY-ASBUILT

FOR

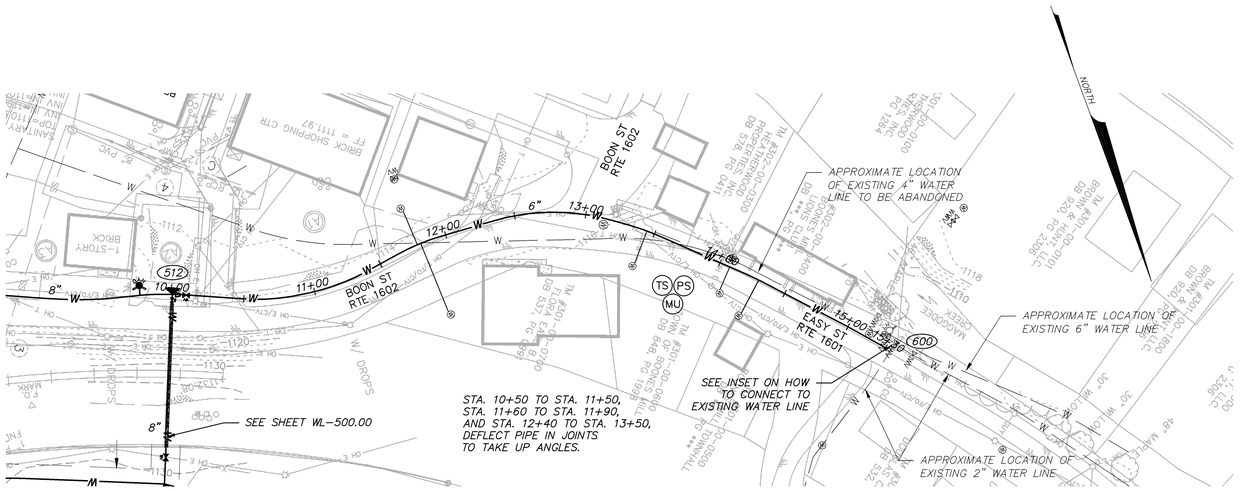
TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 1

TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

PROJECT NO.	20080815
G.L. NO.	297-03-A3.9
FILE NO.	G-12675
DATE:	7/31/09
DRAWN BY:	WCH
CHECKED BY:	BLC

HURT & PROFFITT

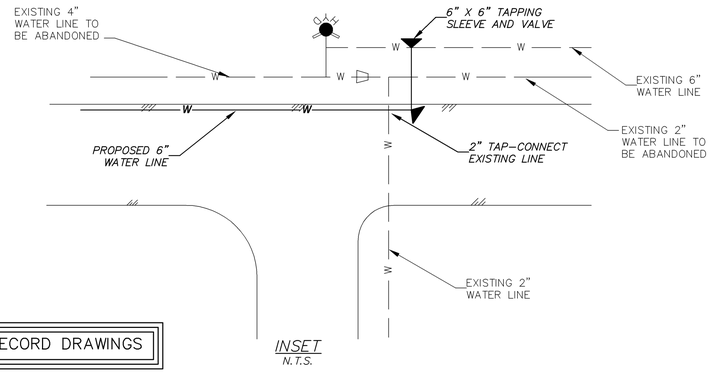
SHEET NO.
WL-500.04



WATER LINE STRUCTURE SCHEDULE

(512) STA. 10+00 (EASY STREET)
STA. 20+38± (WINDING WAY)
REQ'D:
1–8" X 8" TEE
1–8" X 6" REDUCER
1–8" GATE VALVE AND BOX
1–6" GATE VALVE AND BOX
1–CONCRETE ANCHOR

(600) STA. 15+30± EOL
REQ'D:
1–6" 90° BEND
2–CONCRETE ANCHOR
1–6" X 6" TAPPING SLEEVE
1–6" TAPPING VALVE AND BOX
CONNECT TO EXISTING LINE
(SEE INSET ON THIS SHEET)

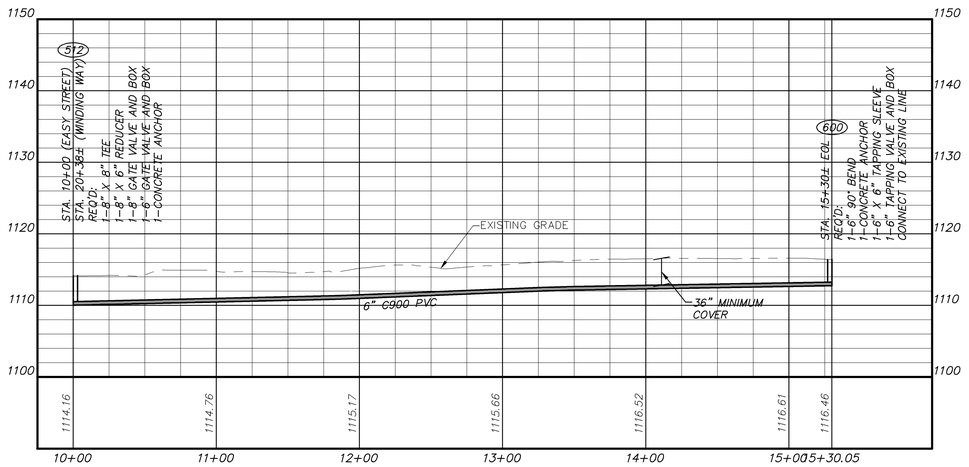


INSET
N.T.S.

NOTE: CONTRACTOR TO VERIFY ALL SERVICE CONNECTIONS ON EASY STREET ARE CONNECTED TO EXISTING 6" LINE. CONTRACTOR TO MOVE ANY SERVICES CONNECTED TO EXISTING 2" LINE TO 6" LINE FROM STA. 15+30 TO END OF EASY STREET.

PROFILE INFORMATION TAKEN FROM RECORD DRAWINGS

LEGEND:
EXISTING GRADE
6" C900 PVC



HORIZ. SCALE 1" = 50'
50 25 0 50 100
VERT. SCALE 1" = 10'
10 05 0 10 20

PROPOSED LEGEND

- WATER METER
- WATER LINE
- BLOW OFF ASSEMBLY
- AIR RELEASE
- FIRE HYDRANT
- CONCRETE ANCHOR
- GATE VALVE
- STEEL CASING
- SLOPE ANCHOR
- E.O.L. END OF LINE

EXISTING LEGEND

- ELECTRIC POLE
- GUY WIRE
- UTILITY PEDESTAL
- LIGHT POLE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- BENCHMARK
- SIGN
- CONCRETE PAD
- EDGE OF WOODS
- EXISTING FENCE LINE
- OVERHEAD ELECTRIC
- UG ELECTRIC LINE
- UG GAS LINE
- UG TELEPHONE LINE
- UG FIBER OPTIC LINE
- UG WATER LINE
- DITCH LINE

1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
3	2/17/10	REVISED ALIGNMENT
4	3/14/12	ASBUILTS

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STA. 10+00 - 15+30± EOL EASY STREET-ASBUILT

FOR

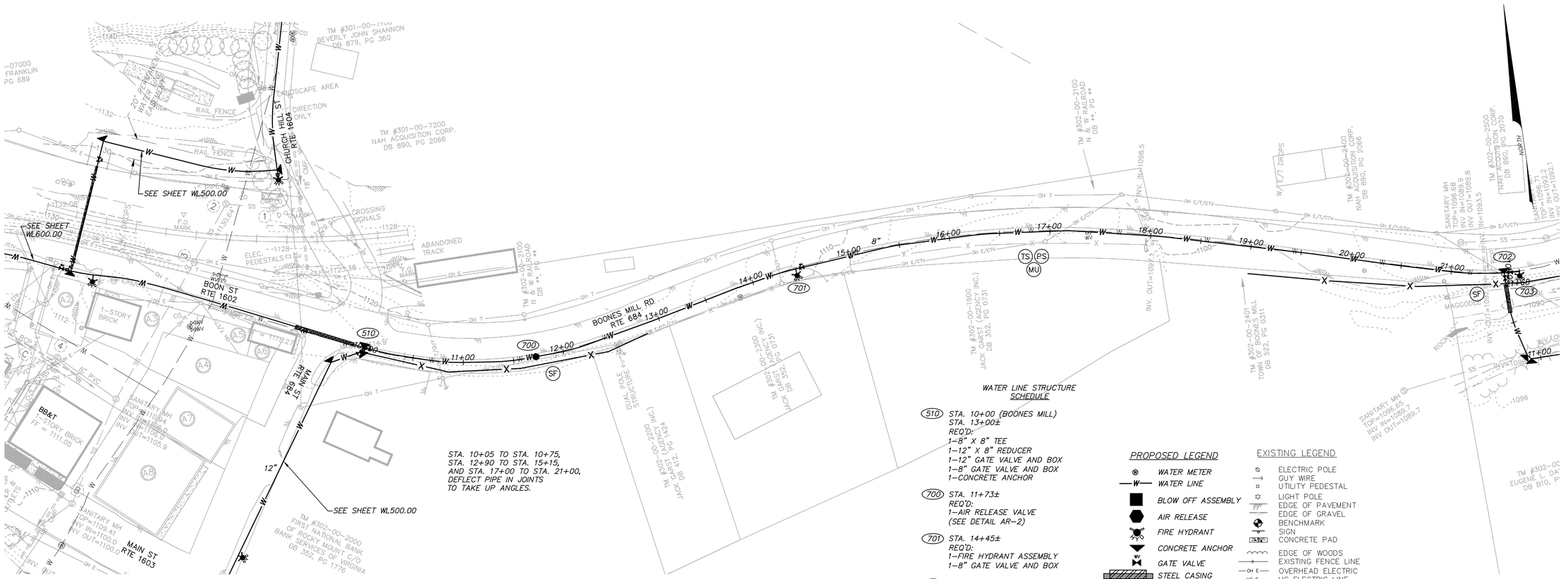
TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 1

TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

PROJECT NO.	20080815
G.L. NO.	297-03-A3.9
FILE NO.	G-12675
DATE:	7/31/09
DRAWN BY:	WCH
CHECKED BY:	BLC

HURT & PROFFITT

SHEET NO.
WL-600.00



LEGEND:
- EXISTING GRADE
- 8" C900 PVC

(8" PVC BELL RESTRAINTS FROM STA. 23+60 TO STA. 24+68)

HORIZ. SCALE 1" = 50'
VERT. SCALE 1" = 10'

WATER LINE STRUCTURE SCHEDULE

(510) STA. 10+00 (BOONES MILL)
STA. 13+00±
REQ'D:
1–8" X 8" TEE
1–12" X 8" REDUCER
1–12" GATE VALVE AND BOX
1–8" GATE VALVE AND BOX
1–CONCRETE ANCHOR

(700) STA. 11+73±
REQ'D:
1–AIR RELEASE VALVE
(SEE DETAIL AR–2)

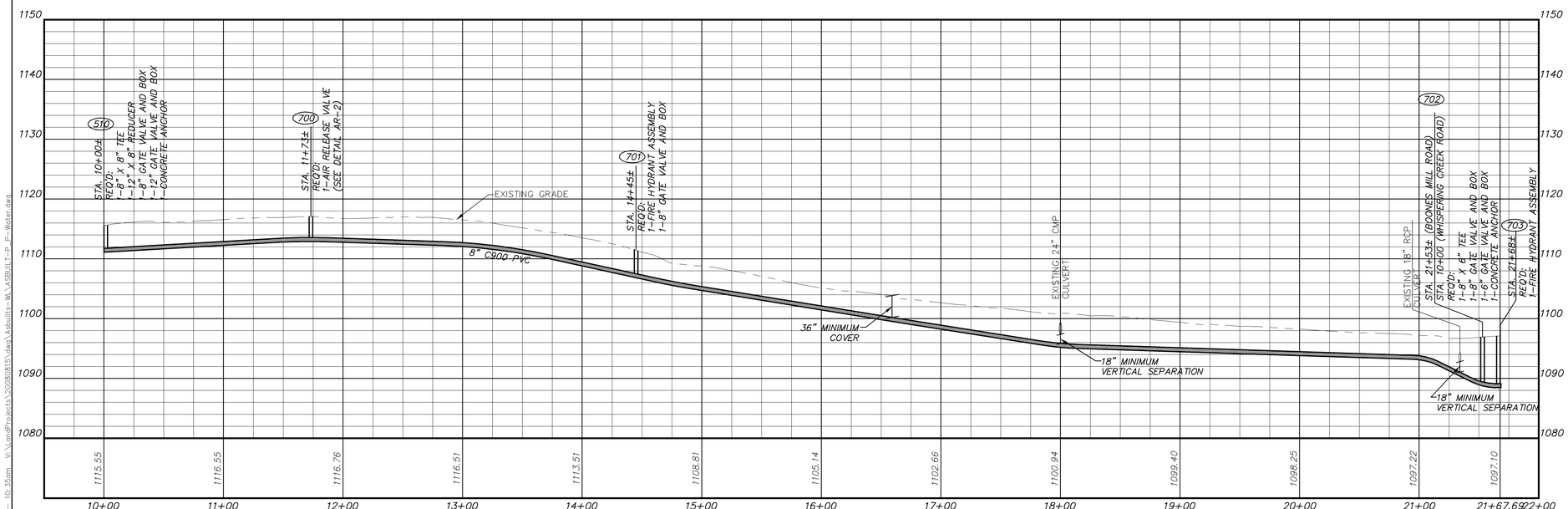
(701) STA. 14+45±
REQ'D:
1–FIRE HYDRANT ASSEMBLY
1–8" GATE VALVE AND BOX

(702) STA. 21+53± (BOONES MILL ROAD)
STA. 10+00 (WHISPERING CREEK ROAD)
REQ'D:
1–8" X 6" TEE
1–8" GATE VALVE AND BOX
1–6" GATE VALVE AND BOX
1–CONCRETE ANCHOR

(703) STA. 21+68± EOL
REQ'D:
1–FIRE HYDRANT ASSEMBLY

PROPOSED LEGEND		EXISTING LEGEND	
	WATER METER		ELECTRIC POLE
W	WATER LINE		GUY WIRE
	BLOW OFF ASSEMBLY		UTILITY PEDESTAL
	AIR RELEASE		LIGHT POLE
	FIRE HYDRANT		EDGE OF PAVEMENT
	CONCRETE ANCHOR		EDGE OF GRAVEL
W	GATE VALVE		BENCHMARK
	STEEL CASING		SIGN
	SLOPE ANCHOR		CONCRETE PAD
E.O.L.	END OF LINE		EDGE OF WOODS
			EXISTING FENCE LINE
		OH E	OVERHEAD ELECTRIC
		UG E	UG ELECTRIC LINE
		UG G	UG GAS LINE
		UG T	UG TELEPHONE LINE
		UG FO	UG FIBER OPTIC LINE
		W	UG WATER LINE
			DITCH LINE

PROFILE INFORMATION TAKEN FROM RECORD DRAWINGS



1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
3	2/17/10	REVISED ALIGNMENT
4	3/14/12	ASBUILTS

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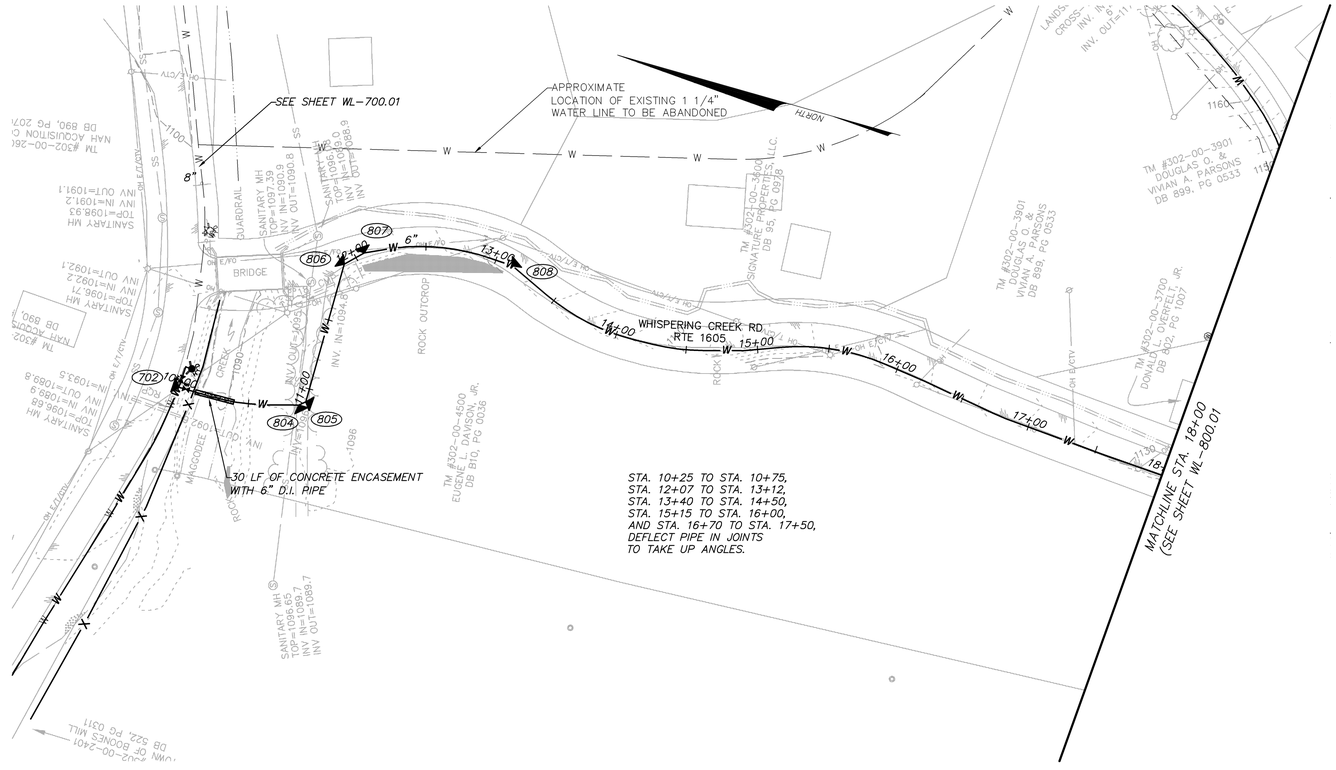
434.847.0047 FAX

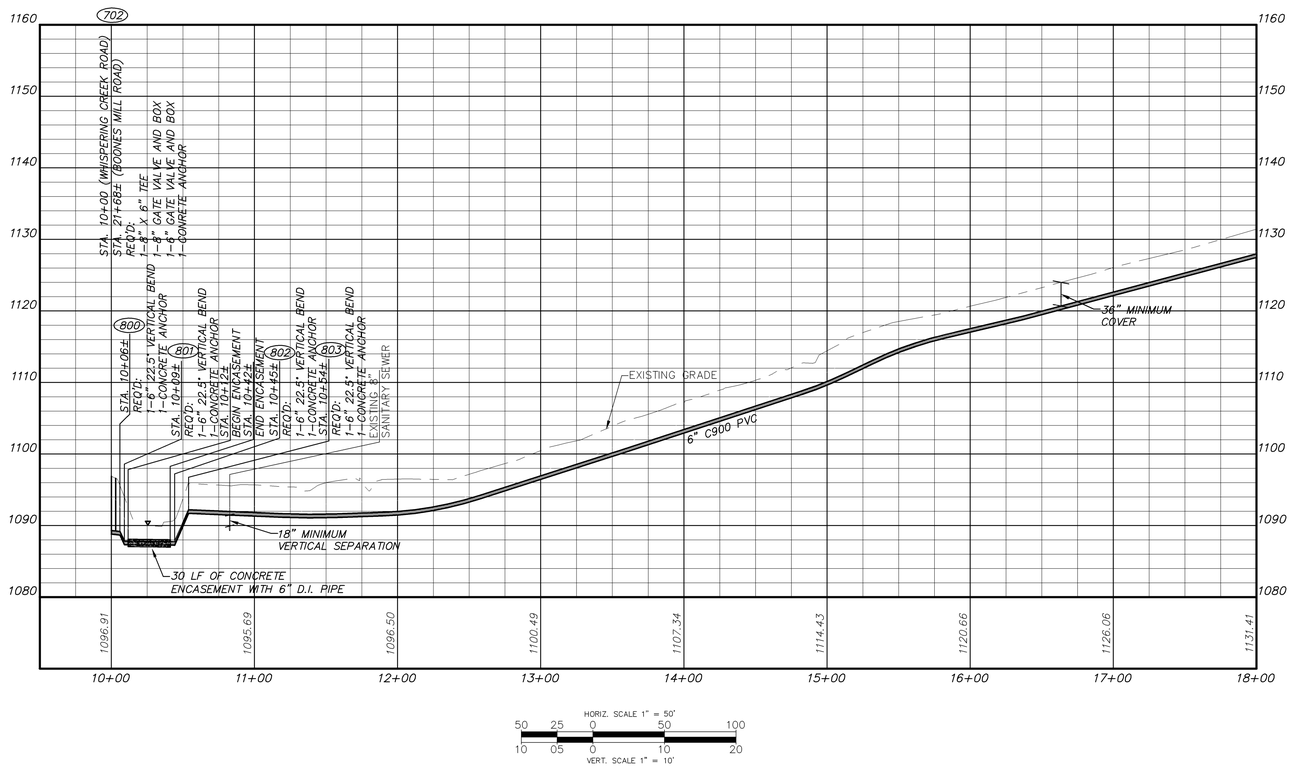
STA. 10+00 - 21+68 EOL BOONES MILL ROAD-ASBUILT
FOR
WATER SYSTEM REPLACEMENT, VOLUME 1
TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

PROJECT NO.	20080815
G.L. NO.	297-03-A3.9
FILE NO.	G-12675
DATE:	7/31/09
DRAWN BY:	WCH
CHECKED BY:	BLC

HURT & PROFFITT

SHEET NO.
WL-700.00





HORIZ. SCALE 1" = 50'
50 25 0 50 100
VERT. SCALE 1" = 10'
10 05 0 10 20

PROPOSED LEGEND

- WATER METER
- WATER LINE
- BLOW OFF ASSEMBLY
- AIR RELEASE
- FIRE HYDRANT
- CONCRETE ANCHOR
- GATE VALVE
- STEEL CASING
- SLOPE ANCHOR
- E.O.L. END OF LINE

EXISTING LEGEND

- ELECTRIC POLE
- GUY WIRE
- UTILITY PEDESTAL
- LIGHT POLE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- BENCHMARK
- SIGN
- CONCRETE PAD
- EDGE OF WOODS
- EXISTING FENCE LINE
- OVERHEAD ELECTRIC
- UG ELECTRIC LINE
- UG GAS LINE
- UG TELEPHONE LINE
- UG FIBER OPTIC LINE
- UG WATER LINE
- DITCH LINE

WATER LINE STRUCTURE SCHEDULE

(702) STA. 10+00 (WHISPERING CREEK ROAD)
STA. 21+53± (BOONES MILL)
REQ'D:
1–8" X 6" TEE
1–8" GATE VALVE AND BOX
1–6" GATE VALVE AND BOX
1–CONCRETE ANCHOR

(800) STA. 10+06±
REQ'D:
1–6" 22.5° VERTICAL BEND
1–CONCRETE ANCHOR

(801) STA. 10+09±
REQ'D:
1–6" 22.5° VERTICAL BEND
1–CONCRETE ANCHOR

(802) STA. 10+45±
REQ'D:
1–6" 22.5° VERTICAL BEND
1–CONCRETE ANCHOR

(803) STA. 10+54±
REQ'D:
1–6" 22.5° VERTICAL BEND
1–CONCRETE ANCHOR

(804) STA. 10+85±
REQ'D:
1–6" 22.5° BEND
1–CONCRETE ANCHOR

(805) STA. 10+91±
REQ'D:
1–6" 45° BEND
1–CONCRETE ANCHOR

(806) STA. 11+91±
REQ'D:
1–6" 45° BEND
1–CONCRETE ANCHOR

(807) STA. 12+07±
REQ'D:
1–6" 22.5° BEND
1–CONCRETE ANCHOR

(808) STA. 13+12±
REQ'D:
1–6" 22.5° BEND
1–CONCRETE ANCHOR

1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
4	3/14/12	ASBUILTS

HURT & PROFFITT
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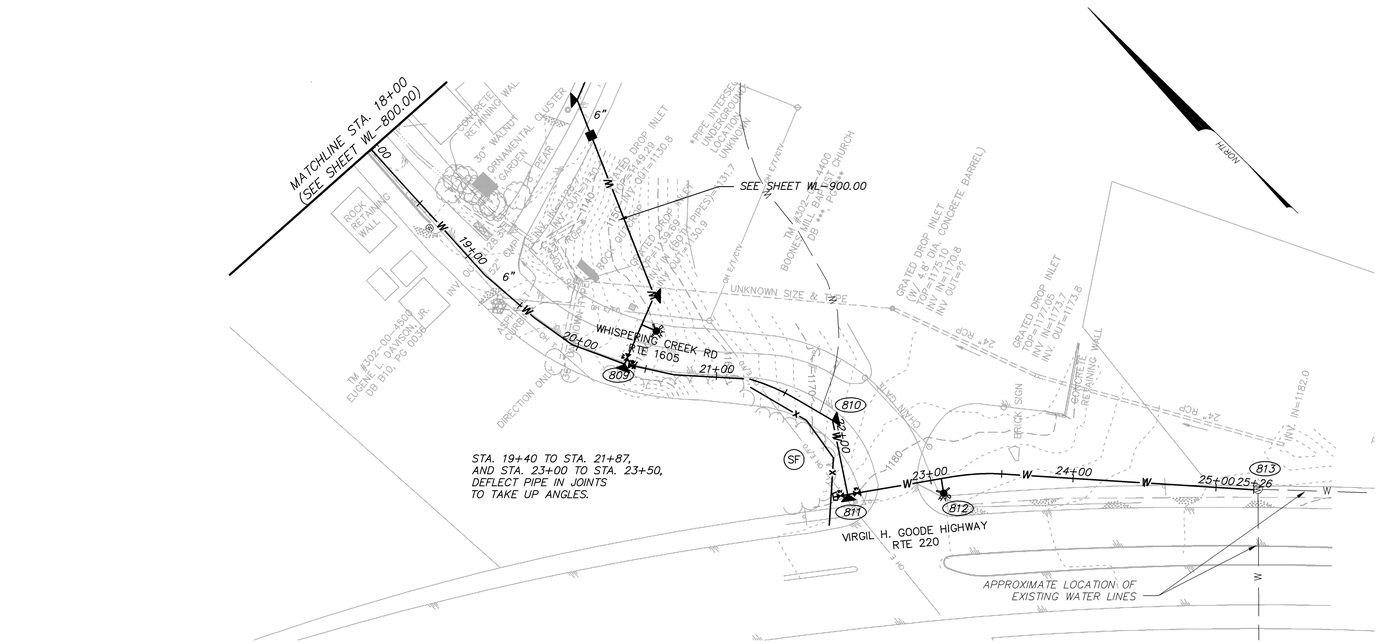
434.847.0047 FAX

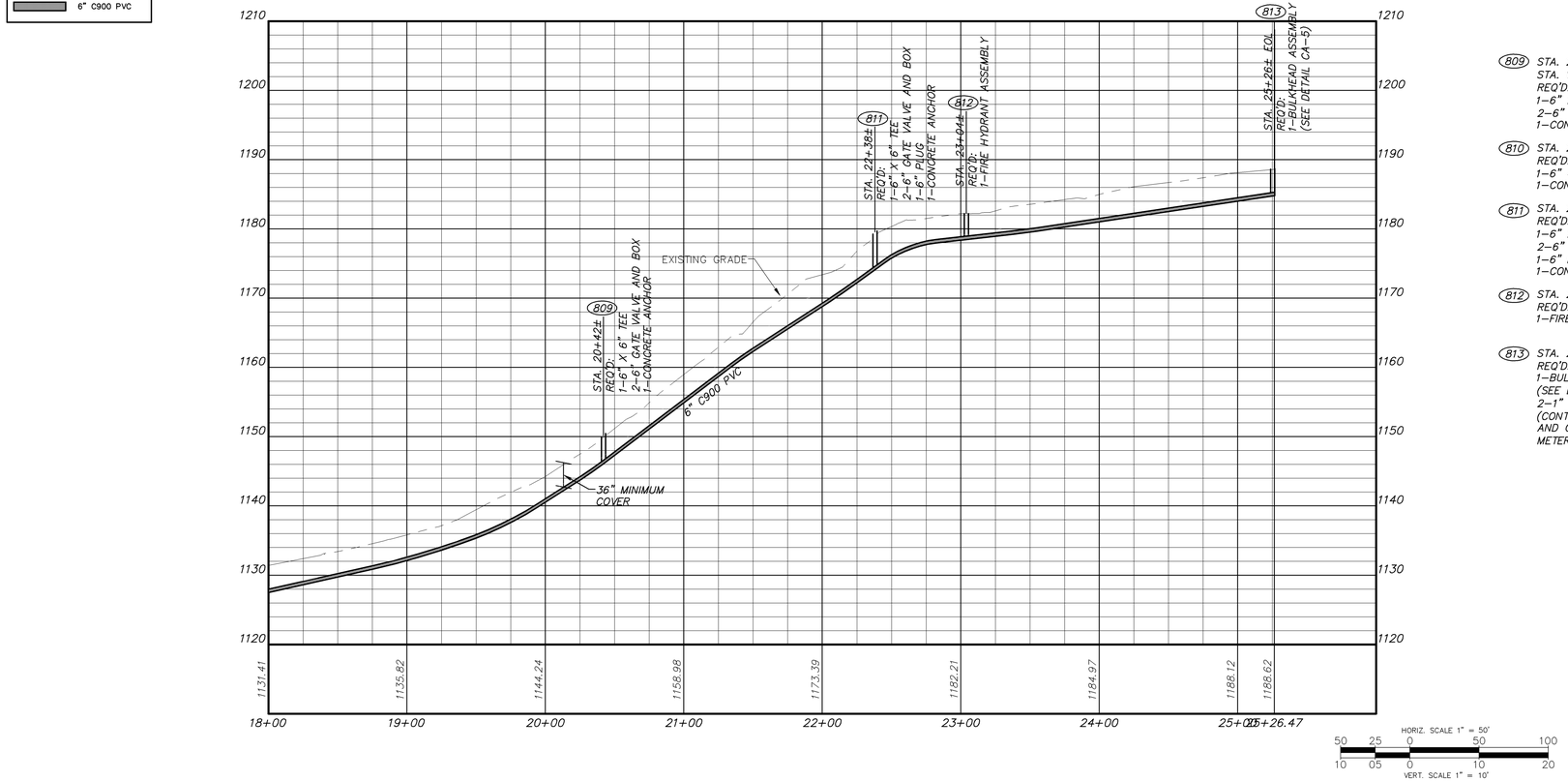
STA. 10+00 - 18+00 WHISPERING CREEK ROAD-ASBUILT
FOR
TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 1
TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

PROJECT NO.	20080815
G.L. NO.	297-03-A3.9
FILE NO.	G-12675
DATE:	7/31/09
DRAWN BY:	WCH
CHECKED BY:	BLC

HURT & PROFFITT

SHEET NO.
WL-800.00





PROPOSED LEGEND

- WATER METER
- WATER LINE
- BLOW OFF ASSEMBLY
- AIR RELEASE
- FIRE HYDRANT
- CONCRETE ANCHOR
- GATE VALVE
- STEEL CASING
- SLOPE ANCHOR
- E.O.L. END OF LINE

EXISTING LEGEND

- ELECTRIC POLE
- GUY WIRE
- UTILITY PEDESTAL
- LIGHT POLE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- BENCHMARK
- SIGN
- CONCRETE PAD
- EDGE OF WOODS
- EXISTING FENCE LINE
- OVERHEAD ELECTRIC
- UG ELECTRIC LINE
- UG GAS LINE
- UG TELEPHONE LINE
- UG FIBER OPTIC LINE
- UG WATER LINE
- DITCH LINE

WATER LINE STRUCTURE SCHEDULE

(809) STA. 20+42± (WHISPERING CREEK ROAD)
STA. 10+00 (TURNER LANE)
REQ'D:
1-6" X 6" TEE
2-6" GATE VALVE AND BOX
1-CONCRETE ANCHOR

(810) STA. 21+85±
REQ'D:
1-6" 45° BEND
1-CONCRETE ANCHOR

(811) STA. 22+38±
REQ'D:
1-6" X 6" TEE
2-6" GATE VALVE AND BOX
1-6" PLUG
1-CONCRETE ANCHOR

(812) STA. 23+04±
REQ'D:
1-FIRE HYDRANT ASSEMBLY

(813) STA. 25+26± EOL
REQ'D:
1-BULKHEAD ASSEMBLY
(SEE DETAIL CA-5)
2-1" WATER METERS
(CONTRACTOR TO INSTALL WATER METERS AND CONNECT EXISTING LINES TO NEW METERS)

1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
4	3/14/12	ASBUILTS

HURT & PROFFITT
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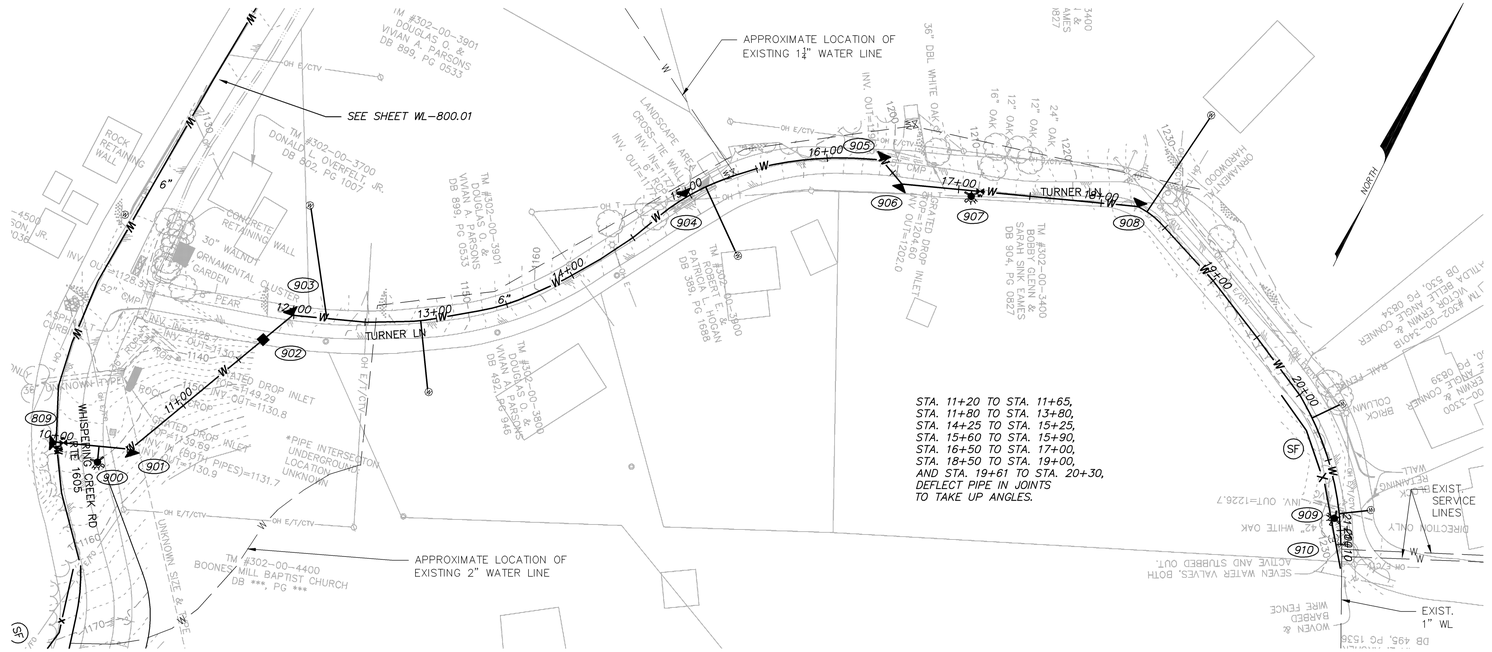
STA. 18+00 - 25+26± EOL WHISPERING CREEK ROAD-ASBUILT
FOR
TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 1
TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

PROJECT NO.	20080815
G.L. NO.	297-03-A3.9
FILE NO.	G-12675
DATE:	7/31/09
DRAWN BY:	WCH
CHECKED BY:	BLC

HURT & PROFFITT

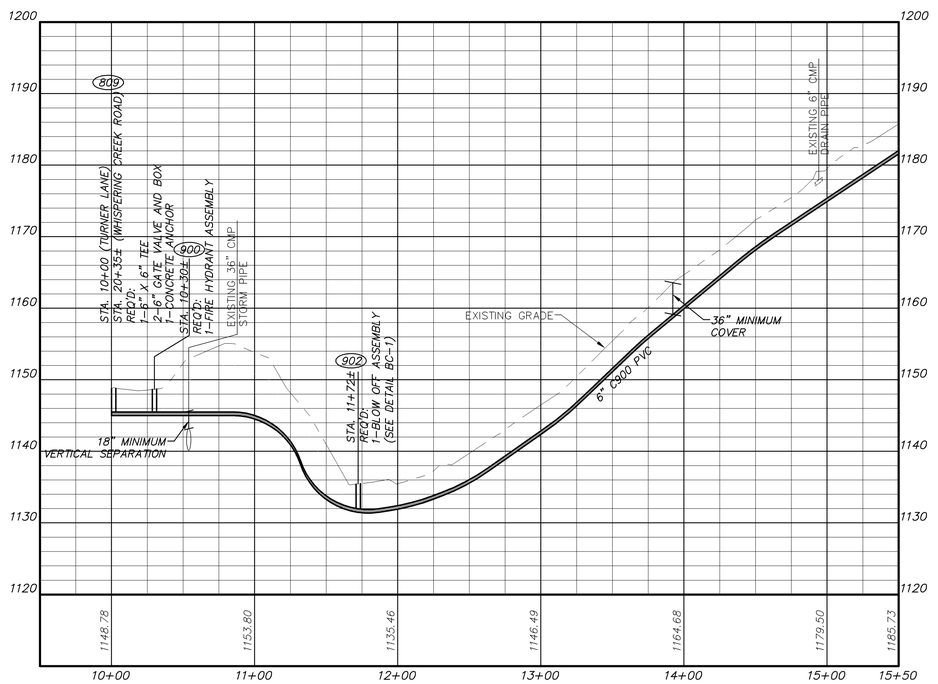
SHEET NO.
WL-800.01

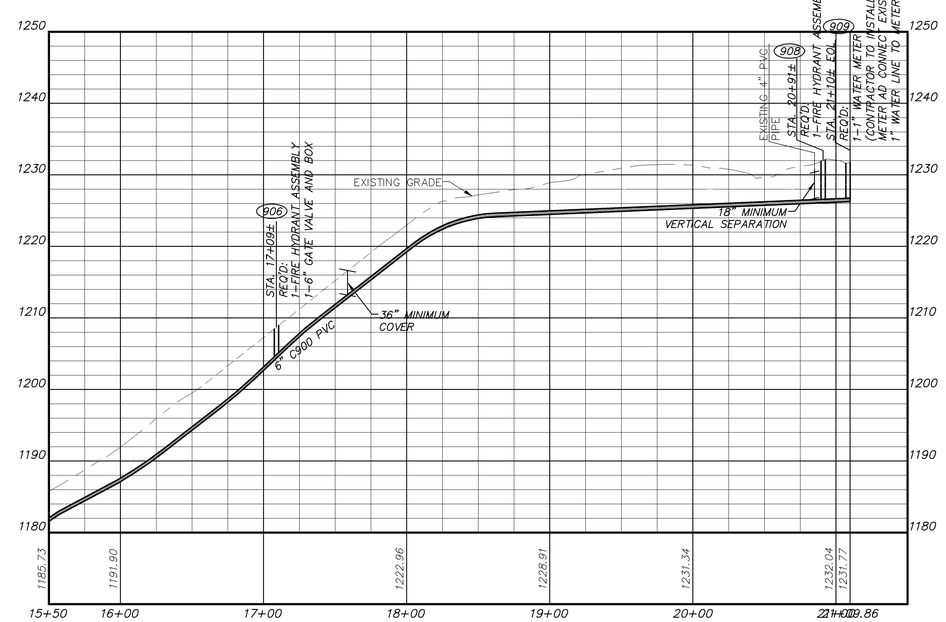


6" PVC WITH BELL RESTRAINTS FROM:
STA. 10+80 – 12+58
STA. 20+15 – 21+10

LEGEND:
EXISTING GRADE
6" C900 PVC

PROFILE INFORMATION TAKEN FROM RECORD DRAWINGS





HORIZ. SCALE 1" = 50'
VERT. SCALE 1" = 10'

PROPOSED LEGEND

- WATER METER
- WATER LINE
- BLOW OFF ASSEMBLY
- AIR RELEASE
- FIRE HYDRANT
- CONCRETE ANCHOR
- GATE VALVE
- STEEL CASING
- SLOPE ANCHOR
- E.O.L. END OF LINE

EXISTING LEGEND

- ELECTRIC POLE
- GUY WIRE
- UTILITY PEDESTAL
- LIGHT POLE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- BENCHMARK
- SIGN
- CONCRETE PAD
- EDGE OF WOODS
- EXISTING FENCE LINE
- OVERHEAD ELECTRIC
- UG ELECTRIC LINE
- UG GAS LINE
- UG TELEPHONE LINE
- UG FIBER OPTIC LINE
- UG WATER LINE
- DITCH LINE

WATER LINE STRUCTURE SCHEDULE

(809) STA. 10+00 (TURNER LANE)
STA. 20+35± (WHISPERING CREEK ROAD)
REQ'D:
1–6" X 6" TEE
2–6" GATE VALVE AND BOX
1–CONCRETE ANCHOR

(900) STA. 10+30±
REQ'D:
1–FIRE HYDRANT ASSEMBLY

(901) STA. 10+52±
REQ'D:
1–6" 45° BEND
1–CONCRETE ANCHOR

(902) STA. 11+72±
REQ'D:
1–BLOW OFF ASSEMBLY
(SEE DETAIL BC–1)

(903) STA. 11+99±
REQ'D:
1–6" 45° BEND
1–CONCRETE ANCHOR

(904) STA. 14+97±
REQ'D:
1–6" 11.25° BEND
1–CONCRETE ANCHOR

(905) STA. 16+38±
REQ'D:
1–6" 45° BEND
1–CONCRETE ANCHOR

(906) STA. 16+60±
REQ'D:
1–6" 45° BEND
1–CONCRETE ANCHOR

(907) STA. 17+09±
REQ'D:
1–FIRE HYDRANT ASSEMBLY
1–6" GATE VALVE AND BOX

(908) STA. 18+25±
REQ'D:
1–6" 22.5° BEND
1–CONCRETE ANCHOR

(909) STA. 20+91±
REQ'D:
1–FIRE HYDRANT ASSEMBLY

(910) STA. 21+10± EOL
REQ'D:
1–1" WATER METER
(CONTRACTOR TO INSTALL METER AD CONNECT EXISTING 1" WATER LINE TO METER)

1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
4	3/14/12	ASBUILTS

HURT & PROFFITT
INCORPORATED
ENGINEERING >> SURVEYING >> PLANNING
2524 LANGHORNE ROAD
LYNCHBURG VA 24501
800.242.4906 TOLL FREE
434.847.7795 MAIN
434.847.0047 FAX

STA. 10+00 - 21+10± EOL TURNER LANE-ASBUILT

FOR

WATER SYSTEM REPLACEMENT, VOLUME 1

TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

PROJECT NO.	20080815
G.L. NO.	297-03-A3.9
FILE NO.	G-12675
DATE:	7/31/09
DRAWN BY:	WCH
CHECKED BY:	BLC

HURT & PROFFITT

SHEET NO.
WL-900.00

Mar 14, 2012 – 10:38am W:\LandProjects\20080815\dwg\Asbuilts-WL\ASBUILT-P_P-Water.dwg

LEGEND:
EXISTING GRADE
6" C900 PVC

PROPOSED LEGEND

- WATER METER
- WATER LINE
- BLOW OFF ASSEMBLY
- AIR RELEASE
- FIRE HYDRANT
- CONCRETE ANCHOR
- GATE VALVE
- STEEL CASING
- SLOPE ANCHOR
- E.O.L. END OF LINE

EXISTING LEGEND

- ELECTRIC POLE
- GUY WIRE
- UTILITY PEDESTAL
- LIGHT POLE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- BENCHMARK
- SIGN
- CONCRETE PAD
- EDGE OF WOODS
- EXISTING FENCE LINE
- OH E — OVERHEAD ELECTRIC
- UG E — UG ELECTRIC LINE
- UG G — UG GAS LINE
- UG T — UG TELEPHONE LINE
- UG FO — UG FIBER OPTIC LINE
- W — UG WATER LINE
- DITCH LINE

NORTH

6" HDPE PIPE FROM STA. 10+00 TO 11+04±

6" PVC PIPE FROM STA. 11+04 TO 14+46±

DEPTH TO TOP OF CASING

STA. 10+10	3.50 FT
STA. 10+20	4.83 FT
STA. 10+30	6.17 FT
STA. 10+40	6.83 FT
STA. 10+47	7.42 FT
STA. 10+61	7.25 FT
STA. 10+73	5.75 FT
STA. 10+83	4.00 FT
STA. 11+02	3.50 FT

WATER LINE STRUCTURE SCHEDULE

(1000) STA. 10+00
REQ'D:
1–12" X 6" TAPPING SLEEVE
1–6" TAPPING VALVE

(1001) STA. 10+09±
REQ'D:
1–6" 90° BEND
1–CONCRETE ANCHOR

(1002) STA. 12+60±
REQ'D:
1–6" 90° BEND
1–CONCRETE ANCHOR

(1003) STA. 12+83±
REQ'D:
1–6" 90° BEND
1–CONCRETE ANCHOR

(1004) STA. 19+54±
REQ'D:
1–FIRE HYDRANT ASSEMBLY

(1005) STA. 24+46± EOL
REQ'D:
1–2" BLOW OFF ASSEMBLY
1–6" GATE VALVE AND BOX

TO BOONES MILL
STATE ROUTE 739
BETHLEHEM ROAD
LEANING OAK ROAD
STATE ROUTE 728

JAMES H. & MILDRED F. WINGFIELD
DB 811, PG 1480

BETTY JANE POFF PRILLAMAN
DB B68, PG 269

LOIS B. HOWELL
DB 370, PG 839

ROY LEE PUGH
DB 355, PG 340

ROY LEE PUGH
DB 310, PG 382

JAMES H. & MILDRED F. WINGFIELD
DB 521, PG 1169

HATTIE A. MOORE, TONY LEE HOGAN & LINDA GIBSON HOGAN

KEISTER LEE ANGELL & HATTIE A. MOORE
DB 704, PG 1421

ANGELL JOSHUA WAYNE & JEREMY COOPER WAYNE
DB 1005, PG 2316

92 LF OF 12" DIP CASING PIPE WITH 6" DIP CARRIER PIPE.

16 LF OF 12" DIP CASING PIPE WITH 6" DIP CARRIER PIPE.

12" EXISTING WATER LINE

EXISTING WATER LINE TO BE ABANDONED

10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00

50 25 0 50 100
GRAPHIC SCALE IN FEET

4	3/14/12	ASBUILTS

Mar 14, 2012 – 10:38am V:\LandProjects\20080815\dwg\Asbuilts–WL\ASBUILT–P–Water.dwg

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2524 LANGHORNE ROAD
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434.847.7795 MAIN
434.847.0047 FAX

STA. 10+00 - 24+46± EOL LEANING OAK-ASBUILT

FOR

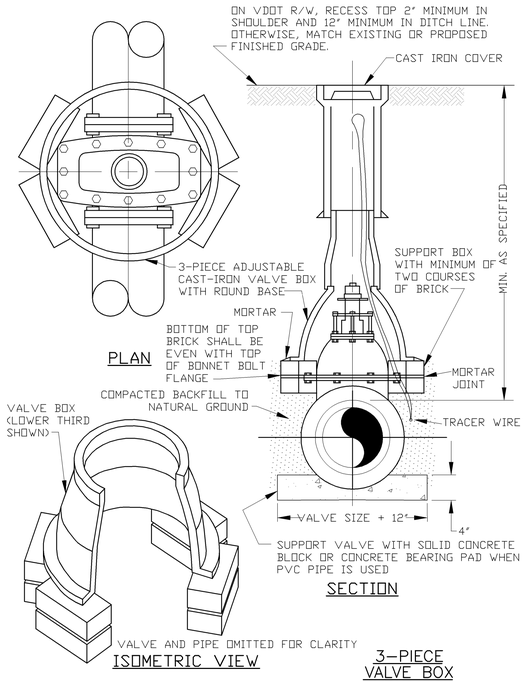
TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 1

TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

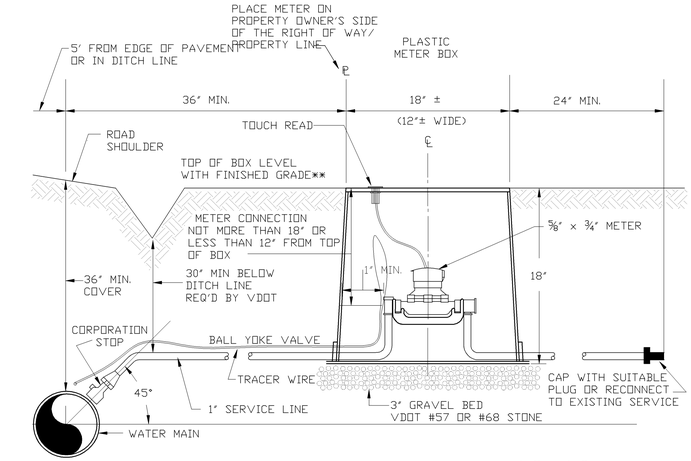
PROJECT NO.	20080815
G.L. NO.	297-03-A3.9
FILE NO.	G-12675
DATE:	7/31/09
DRAWN BY:	WCH
CHECKED BY:	BLC

HURT & PROFFITT

SHEET NO.
WL-1000.00

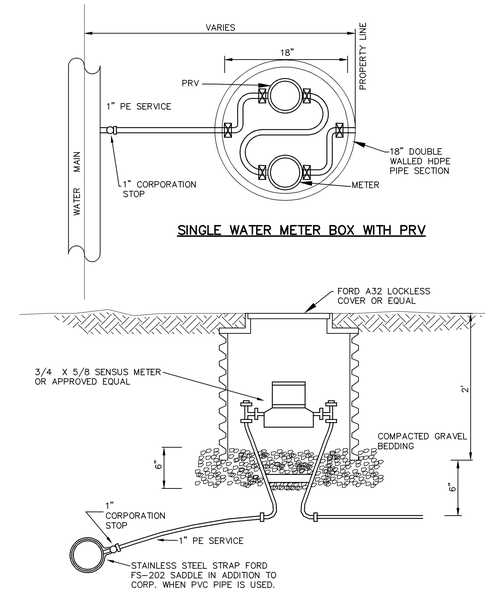


3-PIECE VALVE BOX INSTALLATION
NTS

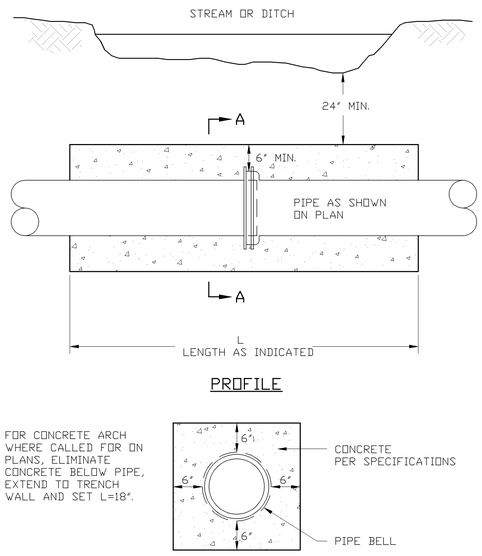


**IF GROUND HAS NOT BEEN FINISH GRADED, LEAVE BOX 2" ABOVE EXISTING GROUND TO ALLOW FOR FINAL GRADING.

STANDARD 5/8"x3/4" SINGLE WATER SERVICE CONNECTION
NTS



SINGLE WATER METER BOX WITH PRV



PROFILE

FOR CONCRETE ARCH WHERE CALLED FOR ON PLANS, ELIMINATE CONCRETE BELOW PIPE, EXTEND TO TRENCH WALL AND SET L=18".

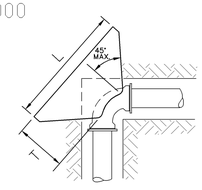
SECTION A-A

CONCRETE ENCASEMENT
NTS

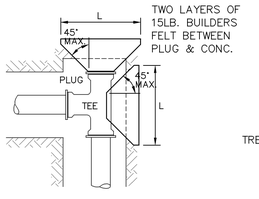
METER MATERIALS LIST

1. METER BOX EQUAL TO 18" DOUBLE WALLED HDPE PIPE SECTION W/ FORD A32 LOCKLESS LID
2. METER SETTER MUST BE FORD VBHH 71-81 OR APPROVED EQUAL
3. METER MUST BE SENSUS POSTIVE DISPLACEMENT METER OR APPROVED EQUAL.
4. CORPORATION STOP MUST BE FORD F-1000 OR APPROVED EQUAL.
5. SERVICE LINE MUST BE 200 PSI TUBING.
6. FOR 1" METERS ALL FITTINGS & COMPONENTS MUST BE UPSIZED TO 1"
7. METAL INSERTS REQUIRED IN TUBING AT ALL FITTINGS.

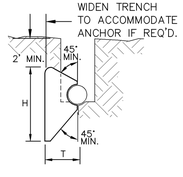
WATER METER INSTALLATION, 5/8" & 1"
N.T.S.



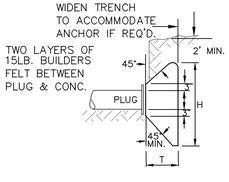
FOR ALL BENDS



FOR TEE AND PLUG FITTINGS



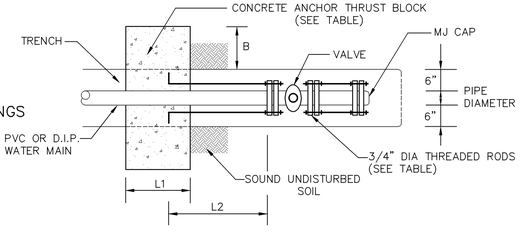
SECTION FOR BEND AND TEE ANCHORS



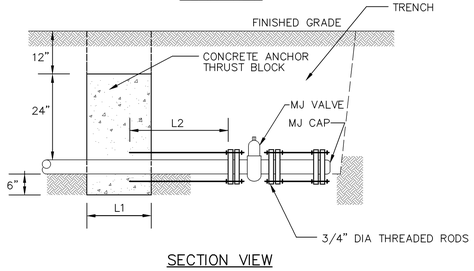
SECTION FOR PLUG ANCHORS

TYPE "F" ANCHOR BLOCK FOR 250 PSI WORKING PRESSURE					
TYPE FITTING	PIPE SIZE, INCH	DIMENSIONS (FT) L	H	T	VOL. CONC. CU. YARDS
90°	4	2.33	2.33	2.81	0.19
45°	4	1.33	1.83	2.42	0.08
22.5°	4	1.33	1.83	2.35	0.07
11.25°	4	1.33	1.83	2.33	0.07
TEE	4	1.83	2.08	2.33	0.11
PLUG	4	1.83	2.08	2.33	0.11
90°	6	3.50	3.00	3.01	0.41
45°	6	2.50	2.50	2.60	0.21
22.5°	6	1.50	2.00	2.52	0.10
11.25°	6	1.50	2.00	2.50	0.10
TEE	6	3.00	2.75	2.50	0.26
PLUG	6	3.00	2.75	2.50	0.26
90°	8	4.75	3.74	3.21	0.71
45°	8	3.66	3.16	2.77	0.42
22.5°	8	2.40	2.41	2.69	0.19
11.25°	8	1.80	2.16	2.67	0.13
TEE	8	4.16	3.41	2.66	0.49
PLUG	8	4.16	3.41	2.66	0.49

CONCRETE ANCHOR BLOCK
N.T.S.



PLAN VIEW



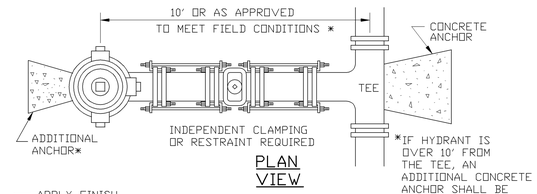
SECTION VIEW

RETAINER GLAND FOR PVC PIPE SHALL BE SERIES 2000 PV, AND FOR DIP PIPE SERIES 100, BY EBAA IRON SALES, INC. "MEGA-LUG" OR APPROVED EQUAL

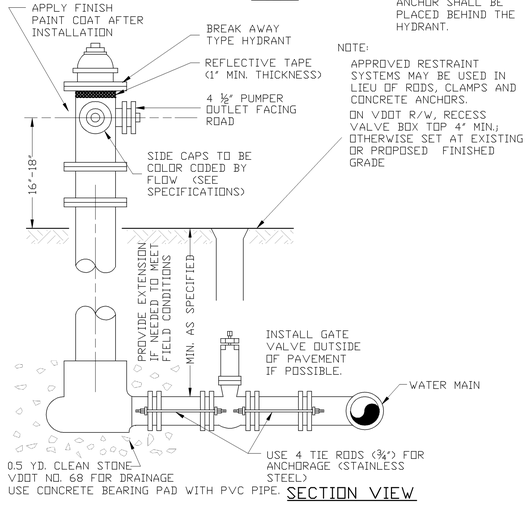
PIPE DIAMETER (IN)	B MIN (IN)	L1 MIN (IN)	NUMBER OF RODS PER RETAINER	L2 MIN (IN)
4-8	12	18	4	27
10-12	27	33	4	50
14-16	44	50	6	75

NOTE: FOR USE WITH TEST OR WORKING PRESSURES 200 PSI OR LESS.

WATERLINE BULKHEAD ANCHOR DETAIL CA-4
NTS



PLAN VIEW

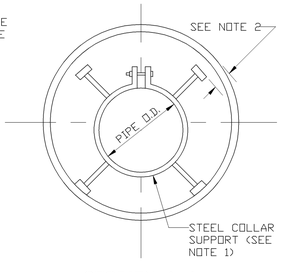


SECTION VIEW

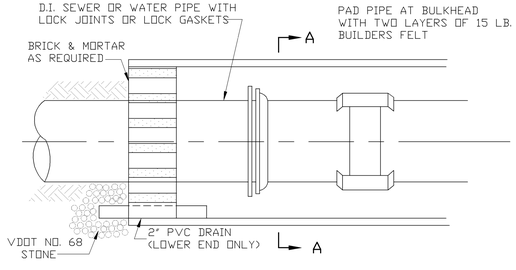
FIRE HYDRANT INSTALLATION
NTS

NOTES

1. SINGLE-PIECE COLLAR SHOWN; 2-PIECE COLLAR USED FOR CARRIER PIPES 18" OR LARGER.
2. DIMENSION AS NECESSARY TO PROVIDE MINIMUM CLEARANCE NEEDED TO SLIDE PIPE THROUGH CASING.
3. THIS STANDARD APPLICABLE FOR 4" DIA. AND LARGER PIPE INSTALLED UNDER PRIMARY AND SECONDARY HIGHWAYS. FOR LINES SMALLER THAN 4", USE DUCTILE IRON PIPE FOR CASING AND MODIFY INSTALLATION ACCORDINGLY.
4. CORRUGATED METAL PIPE SHALL NOT BE USED AS CASING.



SECTION A-A



SEALED CASINGS INSTALLATION
NTS

1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
4	3/14/12	ASBUILTS

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WATER LINE DETAILS-ASBUILT

FOR

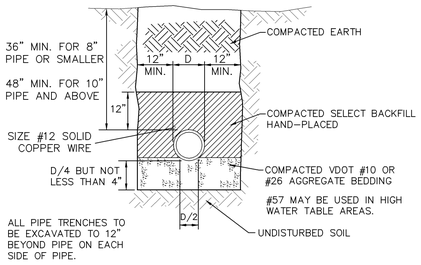
TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 1

TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

PROJECT NO.	20080815
G.L. NO.	297-03-A3.9
FILE NO.	G-12675
DATE:	7/31/09
DRAWN BY:	WCH
CHECKED BY:	BLC

HURT & PROFFITT

SHEET NO.
WL-1

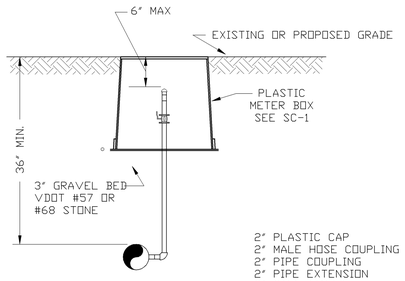


WATER LINE TRENCH

N.T.S.

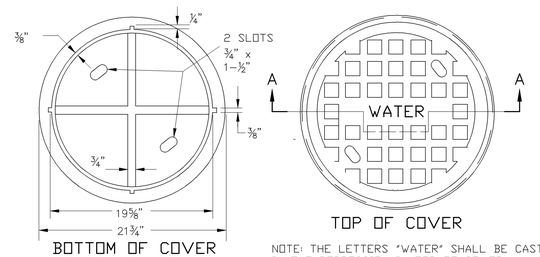
NOTES:

1. IN PAVEMENT, USE PRECAST CHAMBER SHOWN IN BC-3.
2. USE TEFLON TAPE ON ALL PIPE JOINTS AND CAP.



2" PLASTIC CAP
2" MALE HOSE COUPLING
2" PIPE COUPLING
2" PIPE EXTENSION
2" BALL VALVE
2" NIPPLE
2" 90° BEND
2" NIPPLE
C.I. SLEEVE TAPPED 2"

BLOW-OFF CHAMBER
BC-1
NTS

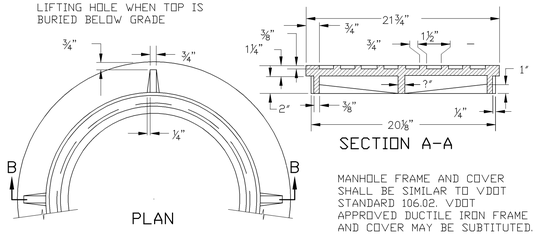


BOTTOM OF COVER

TOP OF COVER

NOTE: THE LETTERS "WATER" SHALL BE CAST IN THE DEPRESSION IN TOP OF COVER 1" WIDE AND RAISED 3/8" HIGH AS SHOWN

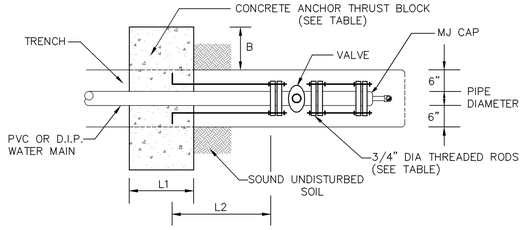
USE SOLID COVER AND CONCEALED LIFTING HOLE WHEN TOP IS BURIED BELOW GRADE



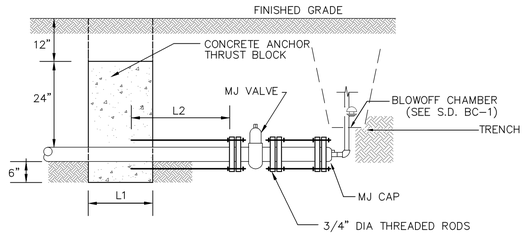
MANHOLE FRAME AND COVER SHALL BE SIMILAR TO VDOT STANDARD 106.02. VDOT APPROVED DUCTILE IRON FRAME AND COVER MAY BE SUBTITUTED.

APPROXIMATE WEIGHT
CAST IRON
FRAME: 239±12 LBS.
COVER: 137±7 LBS.

STANDARD MANHOLE FRAME & COVER
FC-1
NTS



PLAN VIEW



SECTION VIEW

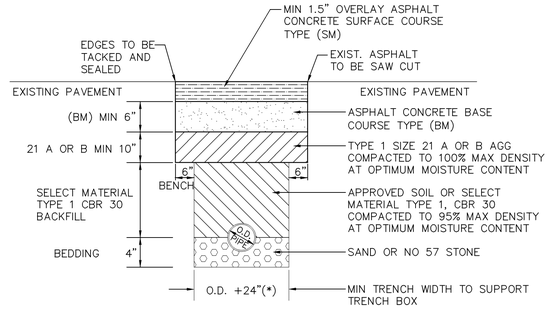
RETAINER GLAND FOR PVC PIPE SHALL BE SERIES 2000 PV, AND FOR DIP PIPE SERIES 100, BY EBAA IRON SALES, INC. "MEGA-LUG" OR APPROVED EQUAL

PIPE DIAMETER (IN)	B MIN (IN)	L1 MIN (IN)	NUMBER OF RODS PER RETAINER	L2 MIN (IN)
4-8	12	18	4	27
10-12	27	33	4	50
14-16	44	50	6	75

NOTE: FOR USE WITH TEST OR WORKING PRESSURES 200 PSI OR LESS.

WATERLINE BULKHEAD ANCHOR WITH BLOWOFF DETAIL CA-5

NTS



*FOR PIPE LESS THAN 12" THE TRENCH WIDTH MAY BE 36" MAXIMUM SEE UB-1 (ROAD AND BRIDGE STANDARDS VOLUME II)

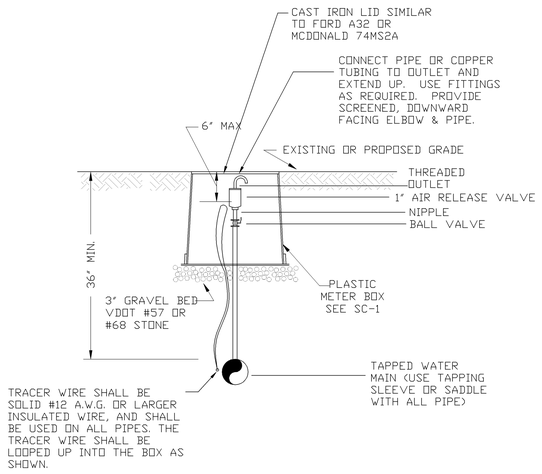
NOTES:
1. TRENCH MAY BE BACKFILLED WITH VDOT NO. 57 STONE FROM PIPE TO BOTTOM OF ASPHALT BASE IN LIEU OF STANDARD DETAIL.
2. IF PAVEMENT BEING REPLACED IS SURFACE TREAMENT, CONTRACTOR TO REPLACE WITH AN EQUIVALENT PAVEMENT SECTION.

CUT REPLACEMENT IN ROADS WITH ASPHALT CONCRETE BASE AND SURFACE

N.T.S.

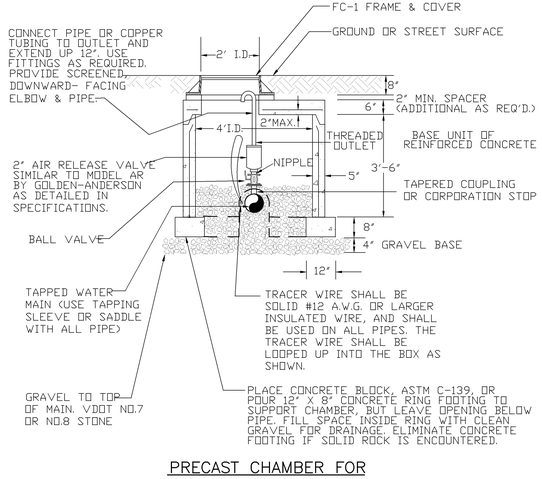
NOTES:

1. IN PAVEMENT, USE PRECAST CHAMBER AS SHOWN IN AR-1.
2. USE TEFLON TAPE ON ALL PIPE JOINTS AND CAP.
3. ALL PIPE AND FITTINGS SHALL BE LEAD FREE BRASS OR STAINLESS STEEL. GALVANIZED AND BLACK IRON PIPE WILL NOT BE ALLOWED.



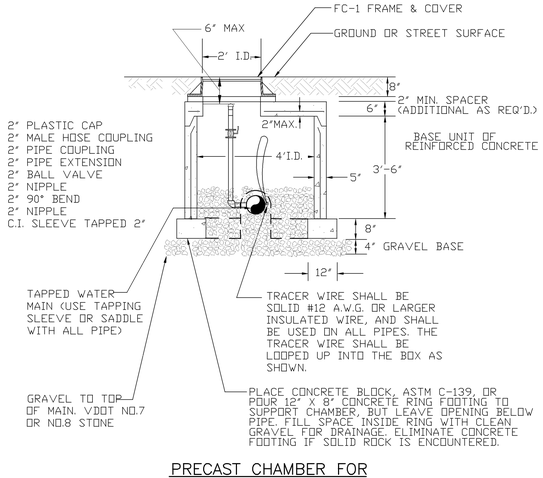
1" AIR RELEASE VALVE
AR-2
NTS

NOTE: MATERIALS AND FABRICATION IN ACCORDANCE WITH MH-2 MANHOLE. SIZE OF AIR RELEASE VALVE AND SIZE OF GATE VALVE AS SPECIFIED. WHERE NOTED ON PLANS, USE STANDARD METER BOX AS CHAMBER AND SUPPORT WITH TWO (2) COURSES OF BRICK.



PRECAST CHAMBER FOR AIR RELEASE VALVE
AR-1
NTS

NOTE: MATERIALS AND FABRICATION IN ACCORDANCE WITH MH-2 MANHOLE. SIZE OF AIR RELEASE VALVE AND SIZE OF GATE VALVE AS SPECIFIED. WHERE NOTED ON PLANS, USE STANDARD METER BOX AS CHAMBER AND SUPPORT WITH TWO (2) COURSES OF BRICK.



PRECAST CHAMBER FOR BLOW-OFF VALVE
BC-3
NTS

1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
4	3/14/12	ASBUILTS

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WATER LINE DETAILS-ASBUILT

FOR

TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 1

TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

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SHEET NO.
WL-2

NOTE: ALL METERS ON THIS SHEET WILL BE REPLACED. NO MODIFICATIONS TO METER BOXES ARE REQUIRED. NO SERVICE LINES WILL BE REPLACED.

VICINITY MAP
N.T.S.

MATCHLINE
(SEE SHEET M2.0)

OAK VIEW LANE

LONGVIEW LANE

LONESOME PINE LANE

QUAL VALLEY LANE

BETHLEHEM ROAD

LEANING OAK

100 50 0 100 200
GRAPHIC SCALE IN FEET

1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
4	3/14/12	ASBUILTS

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METER MAP 1-ASBUILT

FOR

TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 1

TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

PROJECT NO.	20080815
G.L. NO.	297-03-A3.9
FILE NO.	G-12675
DATE:	8/28/09
DRAWN BY:	WCH
CHECKED BY:	BLC

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SHEET NO.
M1.0

VICINITY MAP
N.T.S.

NOTE: ALL METERS ON THIS SHEET WILL BE REPLACED. NO MODIFICATIONS TO METER BOXES ARE REQUIRED. NO SERVICE LINES WILL BE REPLACED.

NORTH

MATCHLINE (SEE SHEET M1.0)

BETHLEHEM ROAD

THRUSH ROAD

MATCHLINE (SEE SHEET M3.0)

100 50 0 100 200
GRAPHIC SCALE IN FEET

1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
4	3/14/12	ASBUILTS

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METER MAP 2-ASBUILT

FOR

TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 1

TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

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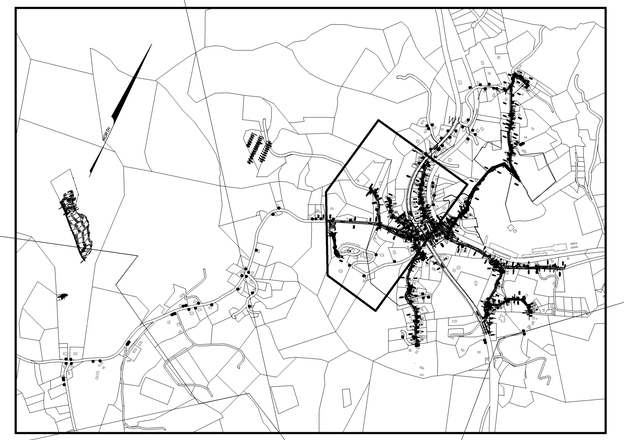
SHEET NO.
M2.0

Mar 14, 2012 – 10:39am V:\LandProjects\20080815\dwg\Asbuilts-WL\ASBUILT-Water Meter.dwg

NOTES
1. ALL SERVICES ALONG BETHLEHEM ROAD WEST OF THE INTERSECTION WITH DOGWOOD HILLS WILL ONLY RECEIVE NEW METERS.
2. ALL OTHER SERVICES SHOWN WILL RECEIVE NEW METER BASE AND PRV PER DETAIL ON WL-1.



VICINITY MAP
N.T.S.

MATCHLINE (SEE SHEET M2.0)

MATCHLINE (SEE SHEET M4.0)

MATCHLINE (SEE SHEET M5.0)

MATCHLINE (SEE SHEET M6.0)

BETHLEHEM ROAD
MOUNTAINAIRE ROAD
OAKWOOD DRIVE
DOGWOOD HILLS ROAD
HEATHER WOOD DRIVE
ROUTE 220
BOON STREET
EAST STREET
MAGGODEE RIDGE

100 50 0 100 200
GRAPHIC SCALE IN FEET

1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
4	3/14/12	ASBUILTS

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METER MAP 3-ASBUILT
FOR
TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 1
TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

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SHEET NO.
M3.0

VICINITY MAP
N.T.S.

NORTH

NOTE: ALL METERS SHOWN WILL BE REPLACED WITH NEW METER BASE WITH PRV AS SHOWN ON SHEET WL-1.

ROUTE 220

WINDING WAY ROAD

MURRAY HILL ROAD

MATCHLINE
(SEE SHEET M3.0)

MATCHLINE
(SEE SHEET M6.0)

MATCHLINE
(SEE SHEET M7.0)

100 50 0 100 200
GRAPHIC SCALE IN FEET

1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
4	3/14/12	ASBUILTS

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METER MAP 4-ASBUILT
FOR
TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 1
TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

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SHEET NO.
M4.0

MATCHLINE
(SEE SHEET M6.0)

MATCHLINE
(SEE SHEET M3.0)

NOTE: ALL METERS SHOWN WILL BE REPLACED WITH NEW METER BASE WITH PRV AS SHOWN ON SHEET WL-1.

VICINITY MAP
N.T.S.

1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
4	3/14/12	ASBUILTS

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METER MAP 5-ASBUILT

FOR

TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 1

TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

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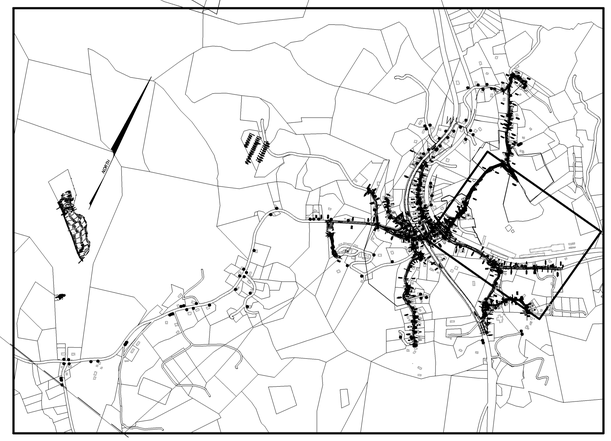
SHEET NO.
M5.0

MATCHLINE
(SEE SHEET M7.0)

MATCHLINE
(SEE SHEET M4.0)



VICINITY MAP
N.T.S.

NOTE: ALL METERS SHOWN WILL BE REPLACED WITH NEW METER BASE WITH PRV AS SHOWN ON SHEET WL-1.

MATCHLINE
(SEE SHEET M3.0)

MATCHLINE
(SEE SHEET M5.0)

100 50 0 100 200
GRAPHIC SCALE IN FEET

1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
4	3/14/12	ASBUILTS

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METER MAP 6-ASBUILT
FOR
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TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

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HURT & PROFFITT

SHEET NO.
M6.0

VICINITY MAP
N.T.S.

NOTE: ALL METERS SHOWN WILL BE REPLACED WITH NEW METER BASE WITH PRV AS SHOWN ON SHEET WL-1.

MATCHLINE
(SEE SHEET M4.0)

MATCHLINE
(SEE SHEET M6.0)

100 50 0 100 200
GRAPHIC SCALE IN FEET

1	8/28/09	VDH COMMENTS
2	9/3/09	OWNER COMMENTS
4	3/14/12	ASBUILTS

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METER MAP 7-ASBUILT
FOR
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SHEET NO.
M7.0