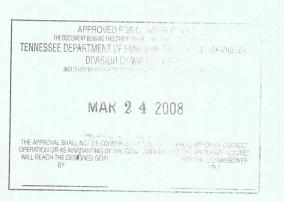
HARRIMAN UTILITY BOARD Roane County, Tennessee GREEN RIDGE HILLS SUBDIVISION PHASE 1 WATER LINE ADDITIONS



2007

LOCATION MAP PROJECT LOCATION



SHEET INDEX KFY MAP -----WATER LINE ADDITION - F3 ----- ; STANDARD WATER DETAILS -----

HARRIMAN UTILITY BOARD APPROVED CONTRACTOR: CK CONSTRUCTION

PLANS REVIEWED AND APPROVED BY HARRIMAN UTILITY BOARD

JAMES C. HAILEY & CO. 2622 OLD LEBANON ROAD - SUITE 200 NASHVILLE, TENNESSEE

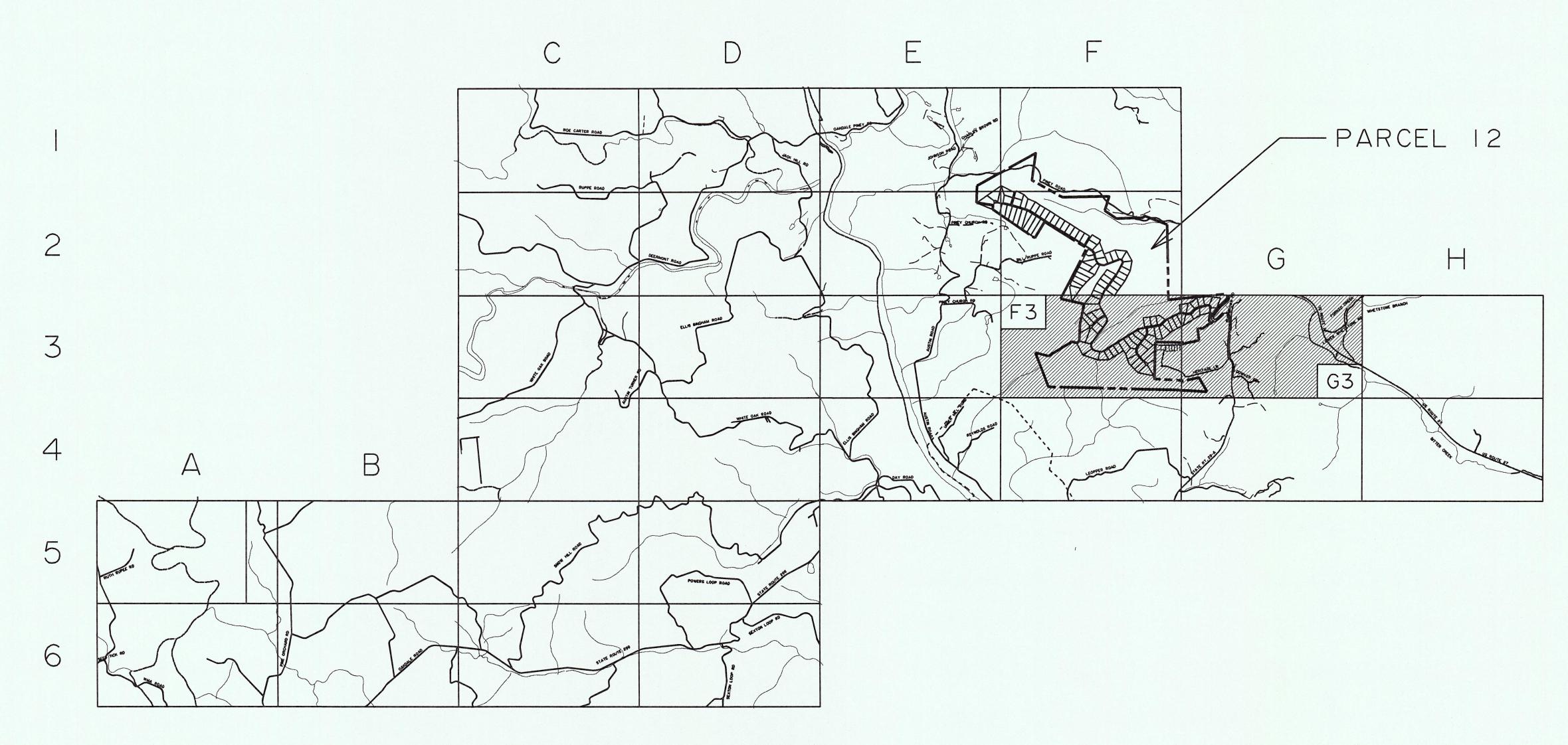
PHONE: 615-883-4933

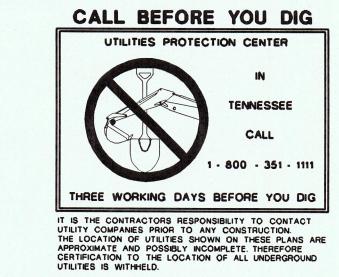
FAX: 615-883-4937

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GENERAL NOTES

- I. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION OF ALL EXISTING UTILITIES AND CONSIDERATION OF SUCH IN BIDDING THE PROJECT. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY (GAS, WATER, TELEPHONE, ETC.) PRIOR TO EXCAVATION TO AVOID EXISTING UTILITIES AND TO ALLOW FOR POSSIBLE INSTALLATION MODIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO ANY UTILITIES AND SHALL REPAIR AT ONCE.
- 2. PROVIDE ADEQUATE EROSION CONTROL MEASURES (SILT FENCE, HAY BALES, ROCK CHECK DAMS, SILT DETENTION BASINS, ETC.) TO PROTECT STREAMS AND WETLANDS FROM SILTATION ASSOCIATED WITH RUN-OFF AND STREAM DISTURBANCE. FAILURE OF THE CONTRACTOR TO INSTALL ADEQUATE EROSION CONTROL FACILITIES SHALL BE CAUSE FOR WORK TO BE STOPPED BY THE OWNER UNTIL SUCH FACILITIES ARE IN PLACE.
- 3. IF NOT NOTED ON PLANS, A 4'-O" MINIMUM CLEARANCE BETWEEN THE EDGE OF PAVEMENT AND THE EDGE TO TRENCH SHALL BE MAINTAINED. IF AN OBSTRUCTION IS ENCOUNTERED, CONTRACTOR MAY, WITH THE RESIDENT INSPECTORS APPROVAL, CLOSE TO A 2'-O" CLEARANCE TO CLEAR THE OBSTACLE. AT NO TIME WILL THE CLEARANCE BE LESS THAN 2'-O" WITHOUT THE PRIOR APPROVAL OF THE COUNTY ROAD SUPERINTENDENT.
- 4. WATER LINES CROSSING CONCRETE OR ASPHALT DRIVES SHALL BE INSTALLED IN A MINIMUM OF 20 FEET OF PVC OR POLYETHELENE CASING. CASING ACROSS ASPHALT OR CONCRETE DRIVES SHALL BE INSTALLED BY BORE AND JACK WHERE SUBGRADE CONDITIONS PERMIT OR UNLESS OTHERWISE NOTED ON PLANS. WATER LINES CROSSING ASPHALT OR CONCRETE PARKING LOTS OR GRAVEL DRIVES SHALL BE INSTALLED BY OPEN CUT AND BACKFILLED WITH CRUSHED STONE. PAVEMENT SHALL BE NEATLY SAW-CUT AND REPLACED.
- 5. CASING AND BORE LENGTHS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR.
- 6. PROVIDE CONCRETE CAPS ON CREEK AND DRAINAGE DITCH CROSSINGS AND RIP-RAP ON CREEK BANK CROSSINGS WHERE DIRECTED BY ENGINEER.
- 7. UTILITY SHALL PROVIDE WATER FOR INITIAL FLUSHING AND TESTING. AFTER INITIAL FLUSHING AND TESTING OF LINES, CONTRACTOR SHALL COMPENSATE THE OWNER FOR WATER USED AT THE CURRENT RATE PER I,000 GALLONS UNTIL THE OWNER ACCEPTS THE SYSTEM. IN THE ABSENCE OF ADEQUATE METERING THE ENGINEER SHALL BE RESPONSIBLE FOR ESTIMATING THE CONSUMPTION OF WATER.
- 8. SERVICES WITHIN THE PROJECT AREA WITH STATIC PRESSURE GREATER THAN 80 psi SHALL BE EQUIPPED BY THE CUSTOMER WITH PRESSURE REDUCING VALVE, LOCATED OUTSIDE OF THE UTILITY'S METER BOX.
- 9. AIR RELEASE VALVE ASSEMBLIES SHALL BE FIELD LOCATED AT THE HIGH POINT OF THE WATER MAIN.
- IO. REPLACE FENCES IN-KIND FROM POST TO POST TO EQUAL OR BETTER CONDITION.
 PROVIDE TEMPORARY FENCING DURING CONSTRUCTION AS NEEDED TO INSURE
 THAT FENCED ANIMALS DO NOT ESCAPE.
- II. ROUGH CLEAN-UP OF LARGE DEBRIS IN DISTURBED AREAS SUCH AS BOULDER'S,
 TREES, BRUSH, ETC. SHALL BE PERFORMED NO MORE THAN SEVEN (7) CALENDAR
 DAYS AFTER WATER LINE IS INSTALLED, WEATHER PERMITTING. FINAL CLEAN-UP,
 TOPSOILING, SEEDING, MULCHING AND FERTILIZING SHALL BE DONE NO
 LATER THAN THIRTY (30) DAYS AFTER WATER LINE IS INSTALLED, WEATHER PERMITTING.
 PROVIDE TEMPORARY SEEDING WHERE THERE IS A POTENTIAL FOR EROSION.
- 12. PROPERTY OWNERS SHALL HAVE ACCESS TO DRIVEWAYS AND FIELD ROADS AT ALL TIMES. ROAD CUT REPAIRS ARE SUBJECT TO APPROVAL OF THE MARSHALL COUNTY HIGHWAY DEPARTMENT. ALL ROAD CUT CROSSINGS SHALL HAVE A CONCRETE SURFACE PER THE STANDARD DETAILS.



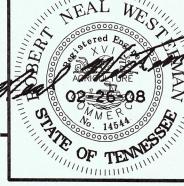


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JA MES C. HAILEY & CO.

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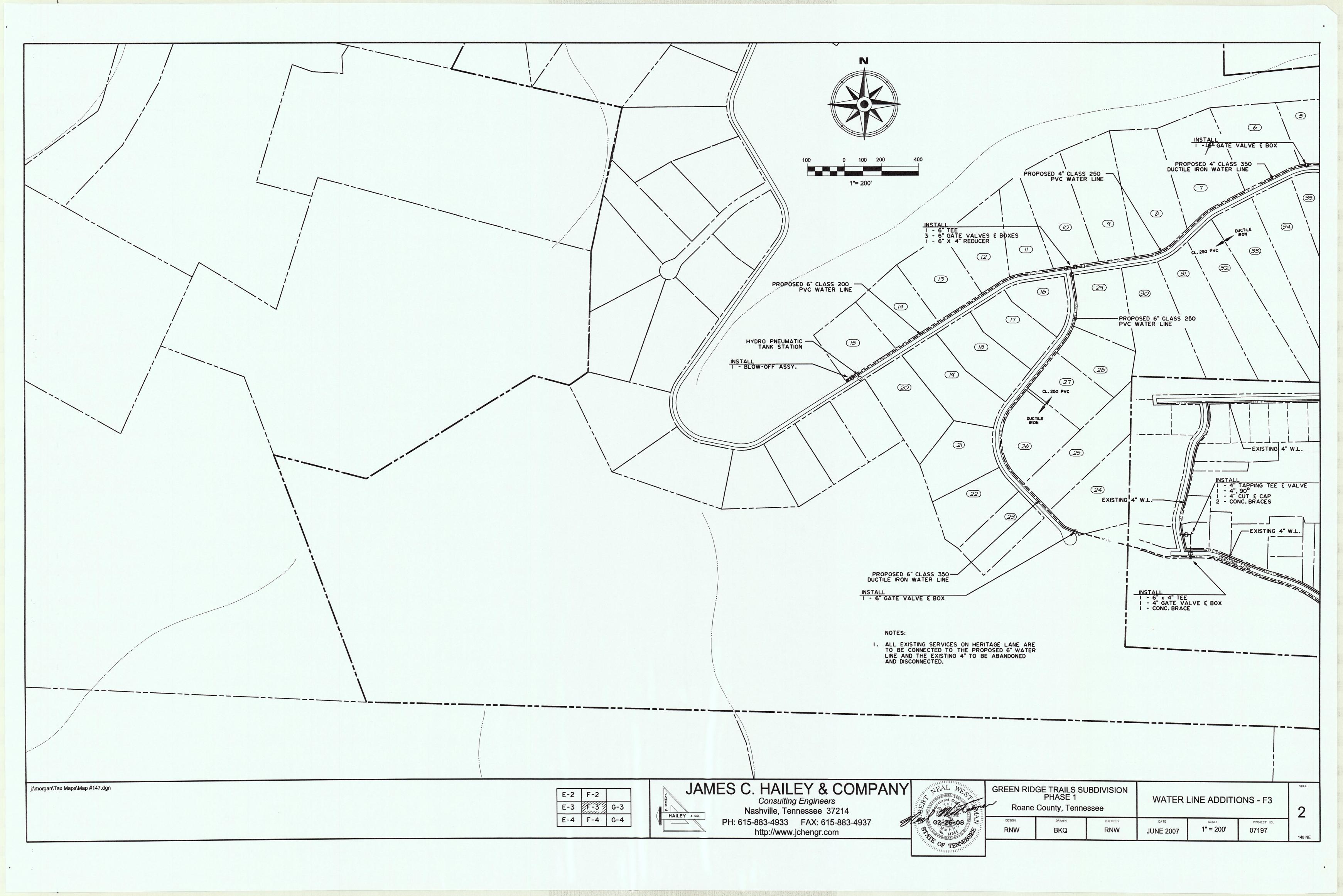


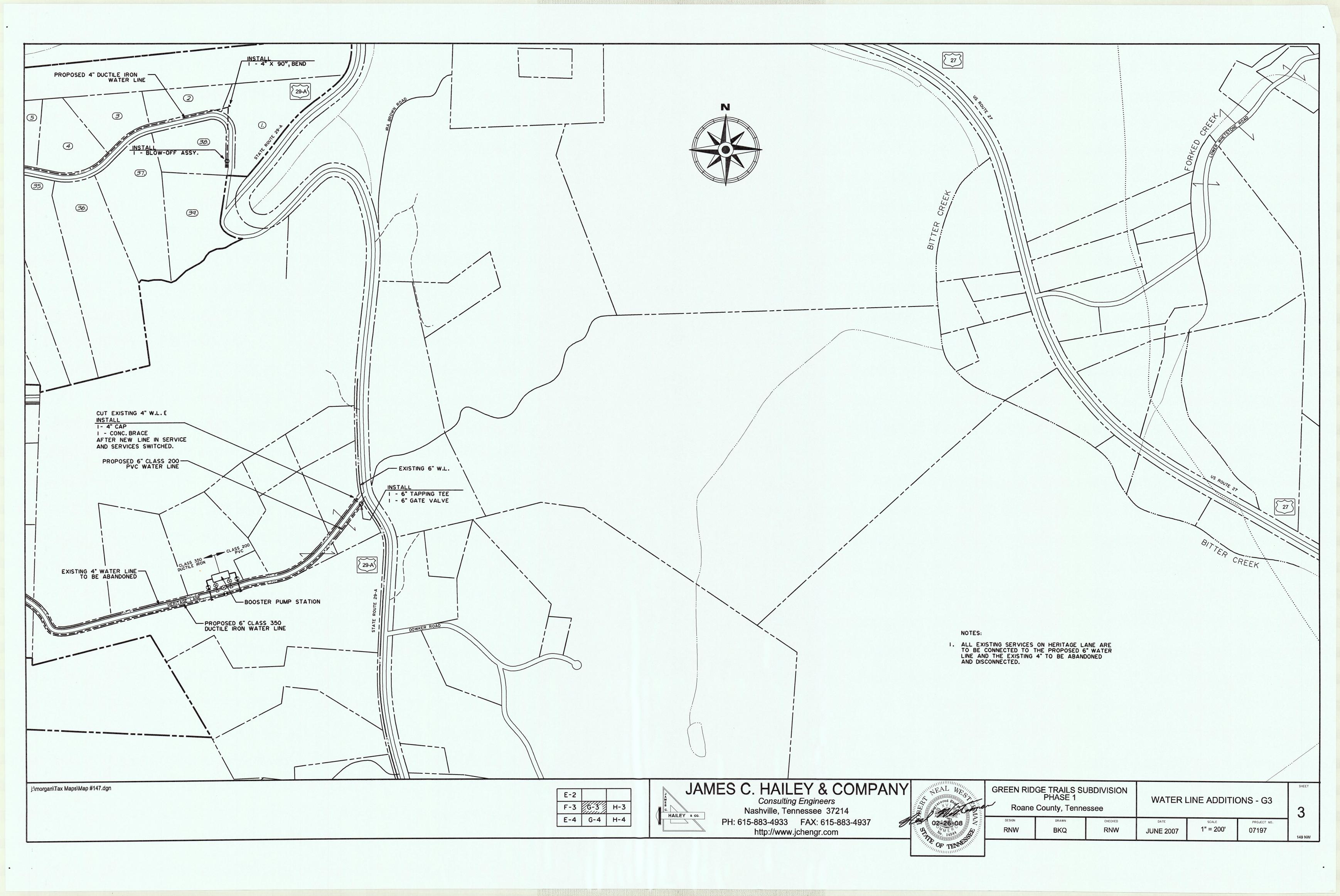
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RNW	BKQ	RNW	JUNE 20

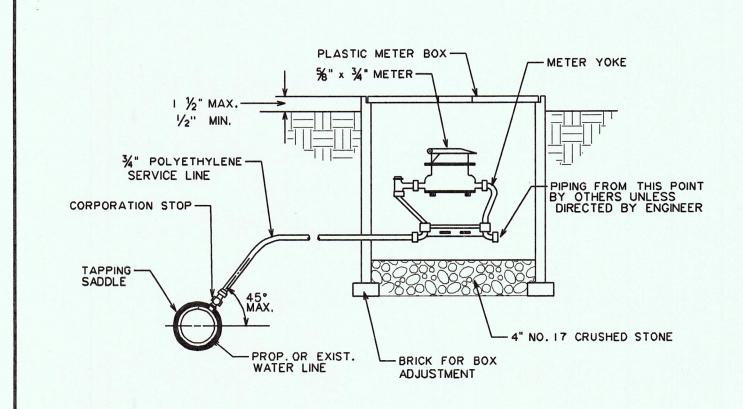
KEY MAP

SCALE PROJECT NO.

NONE 07197

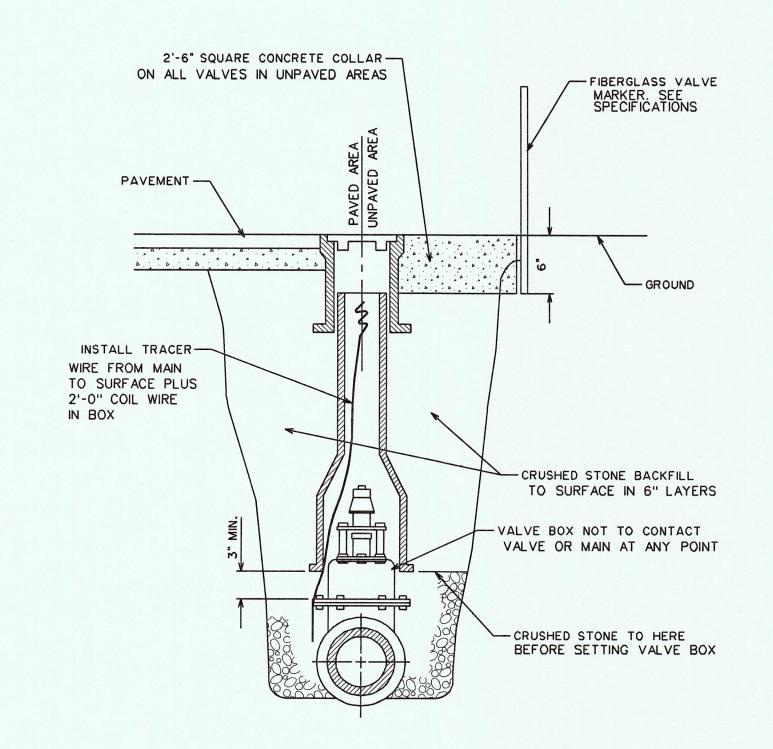




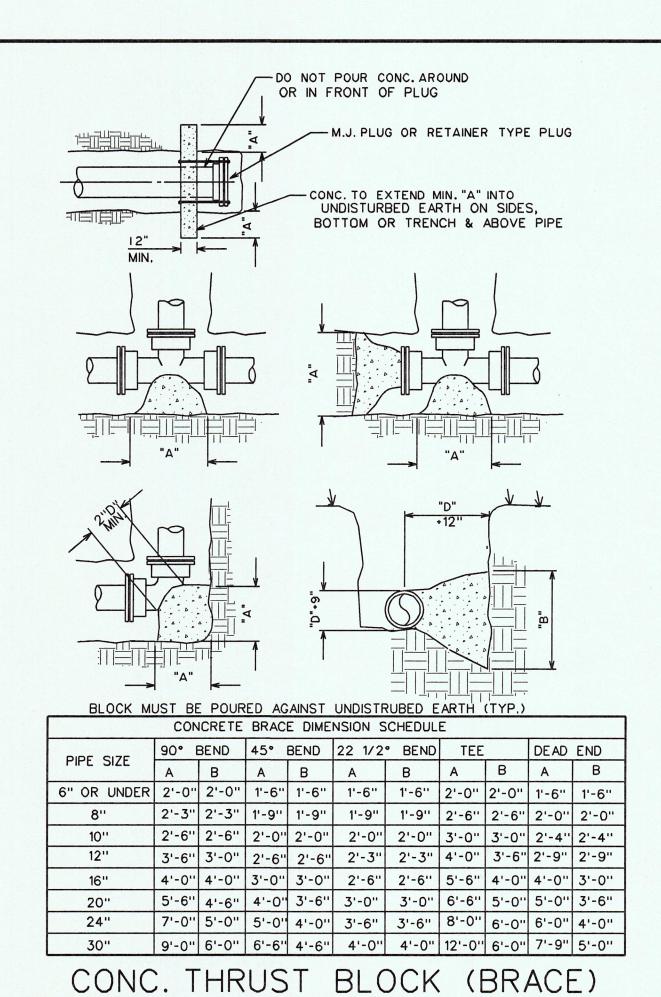


- I. NO. 17 CRUSHED STONE TO BE PROVIDED FOR METER SUPPORT IF PLASTIC SERVICE LINE IS USED.
- 2. SERVICE LINE TO RUN FROM MAIN TO METER BOX ALONG THE SHORTEST, MOST DIRECT ROUTE POSSIBLE UNLESS OTHERWISE DIRECTED BY RESIDENT INSPECTOR.
- 3. SERVICE LINE TO BE CONTINUOUS FROM MAIN LINE TO METER YOKE WITHOUT COUPLINGS.

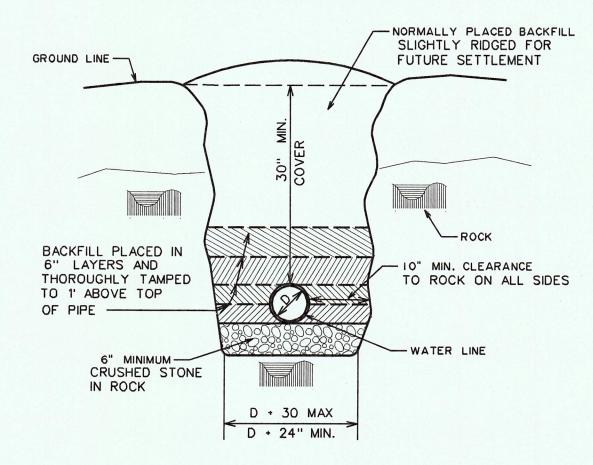
TYPICAL SERVICE CONNECTION



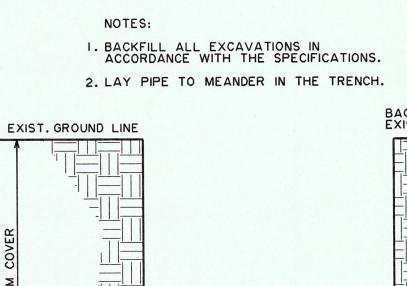
TYPICAL VALVE BOX SETTING

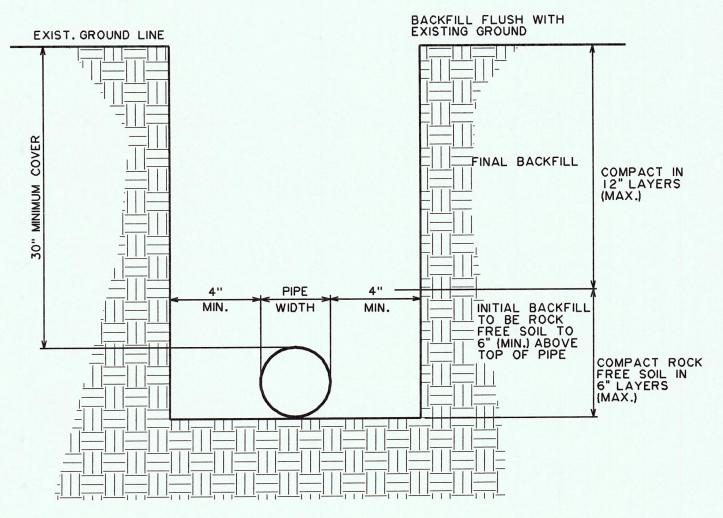


CASE SHOWN FOR ROCK TRENCH (IN AREA NOT SUBJECT TO TRAFFIC)

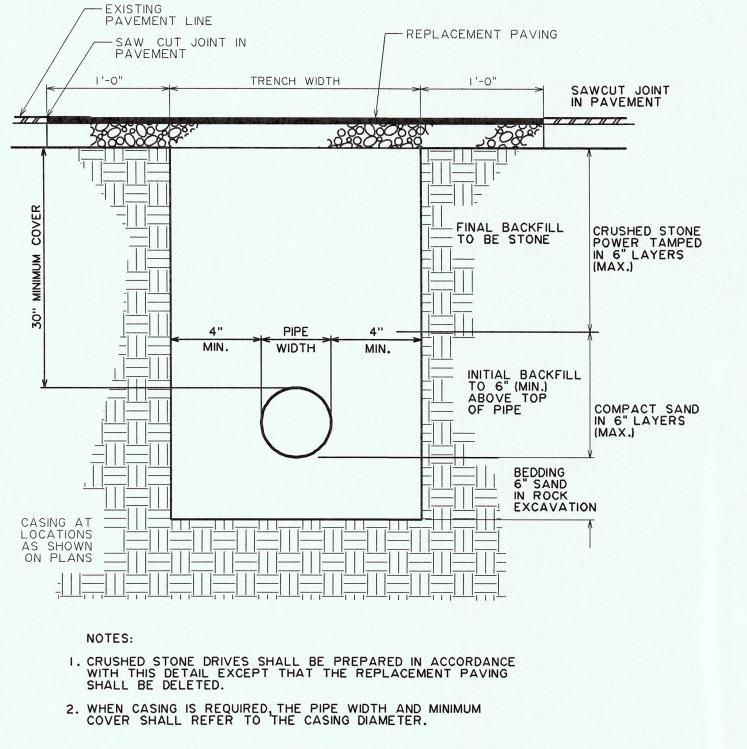


TYPICAL TRENCH SECTION

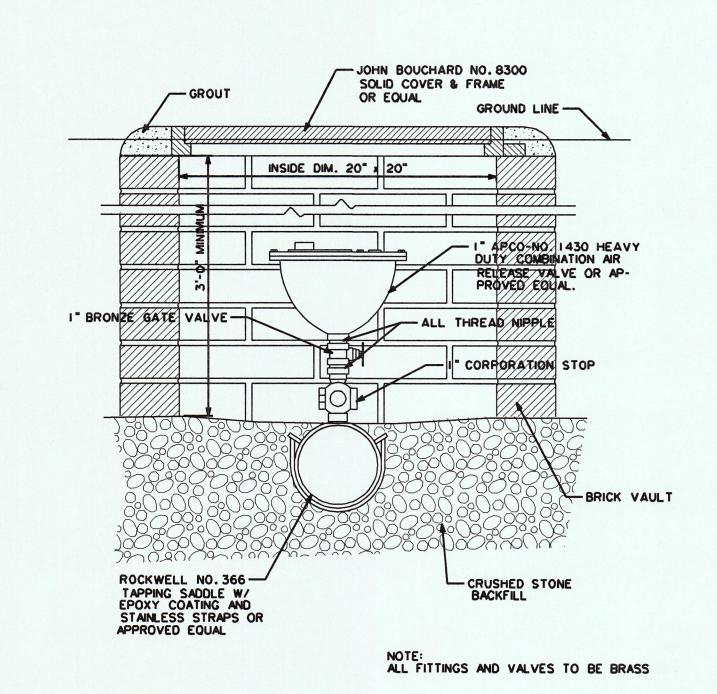




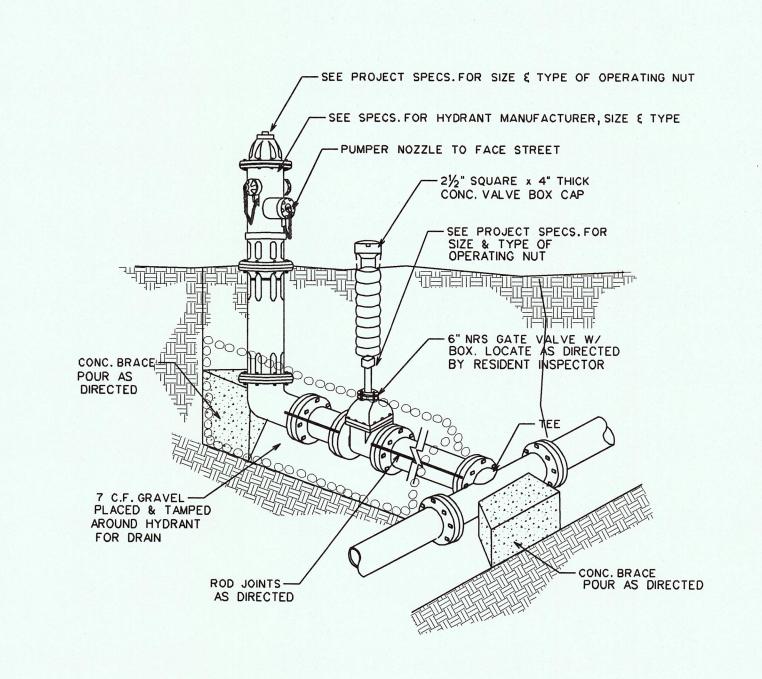
TYPICAL TRENCH SECTION IN SOIL EXCAVATION



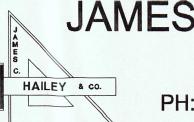
TYPICAL TRENCH SECTION UNDER PAVEMENT



AIR RELEASE VALVE ASSEMBLY

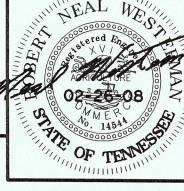


TYPICAL FIRE HYDRANT INSTALLATION

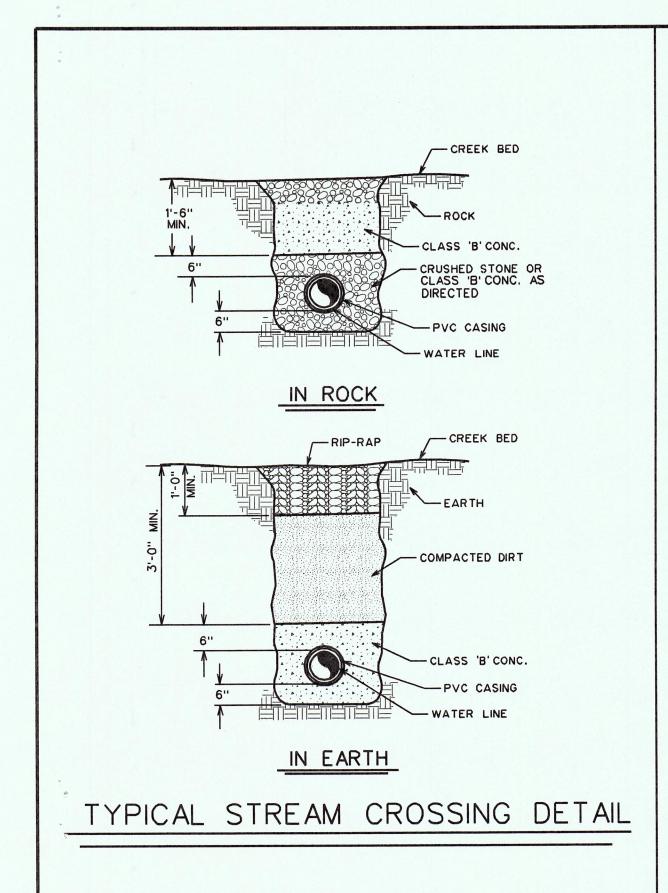


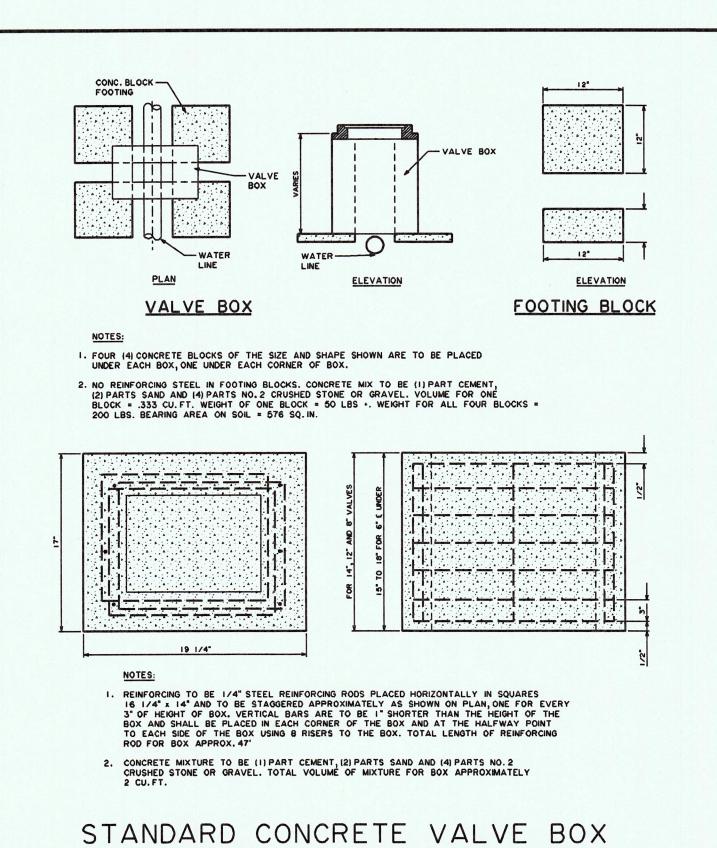
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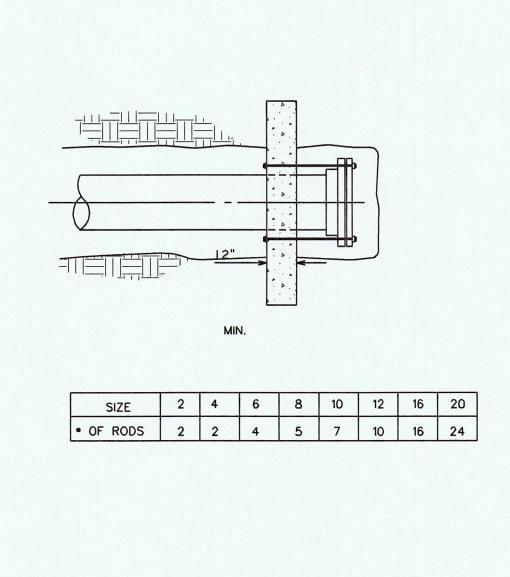
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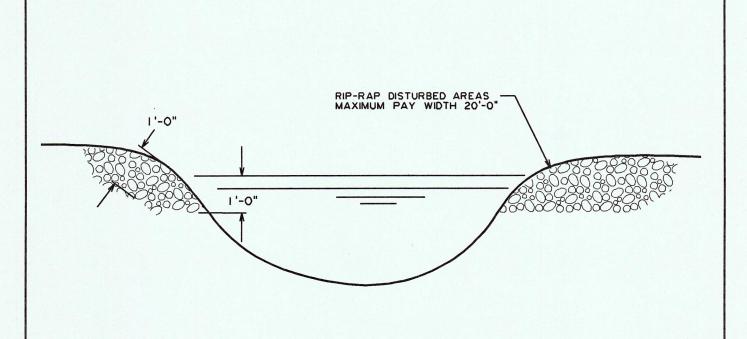
,	MAN UTILITY County, Tenn		STANDARD WATER DETAILS			
DESIGN	DRAWN BKQ	CHECKED RNW	JUNE 2007	scale NONE	PROJECT NO.	



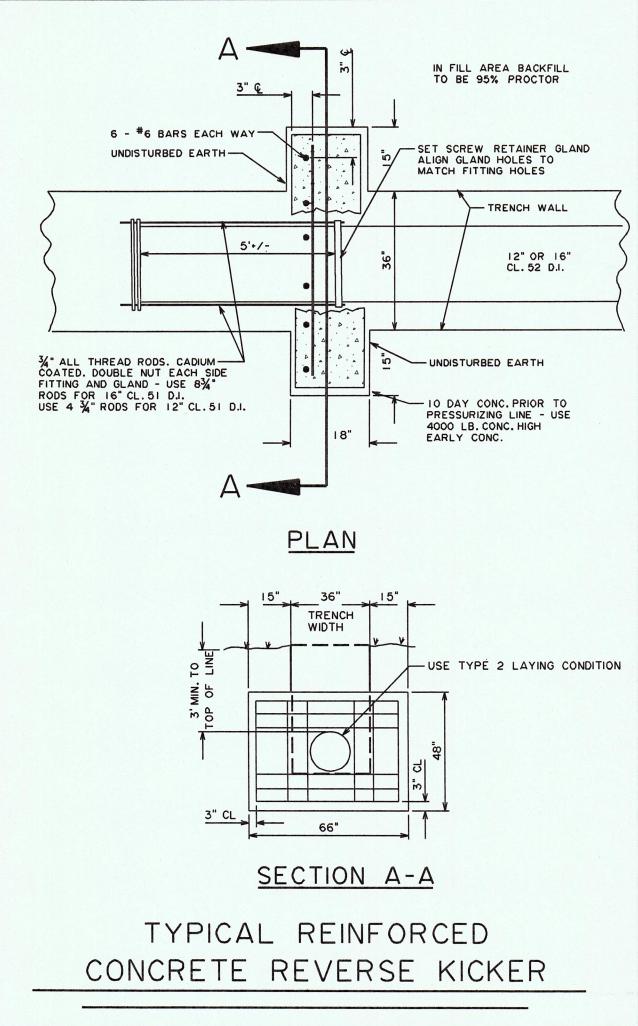


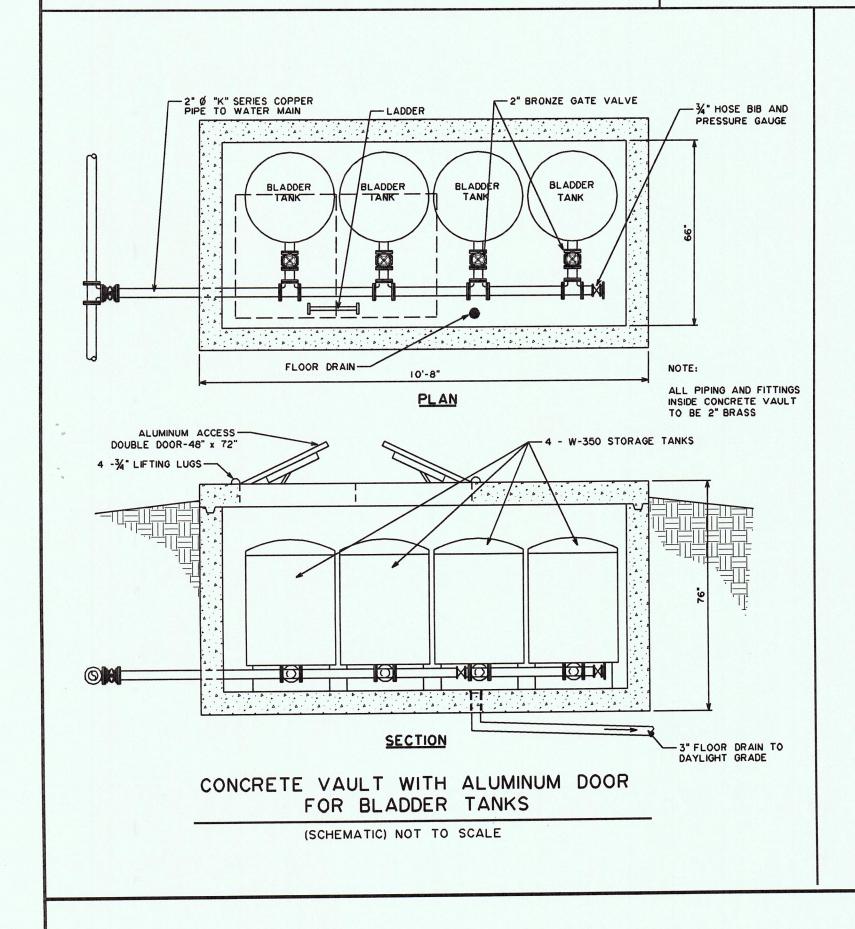


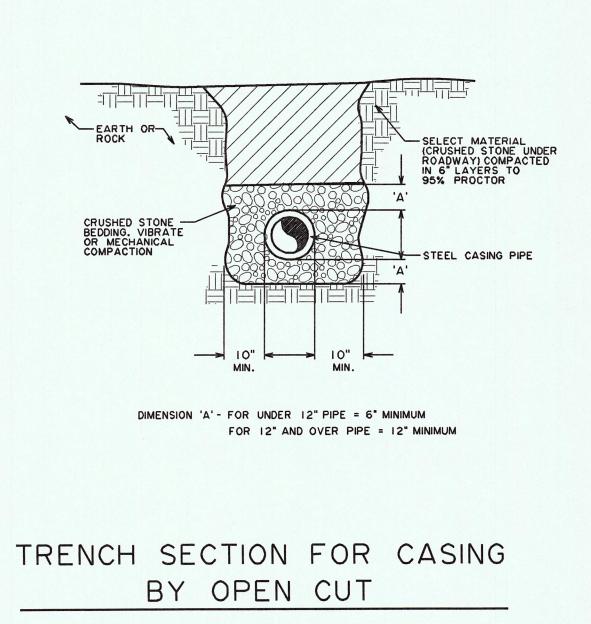


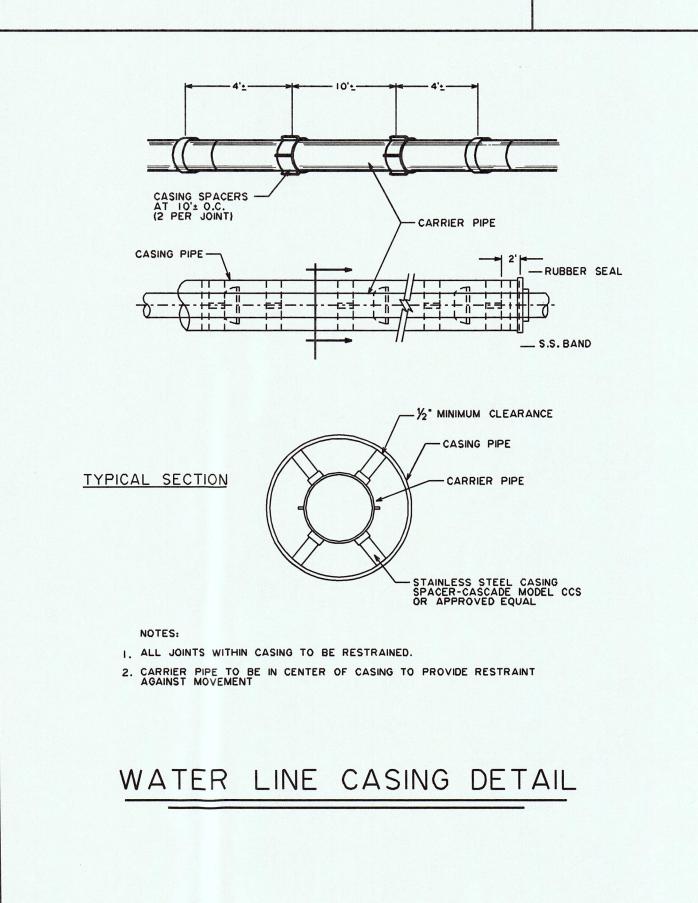


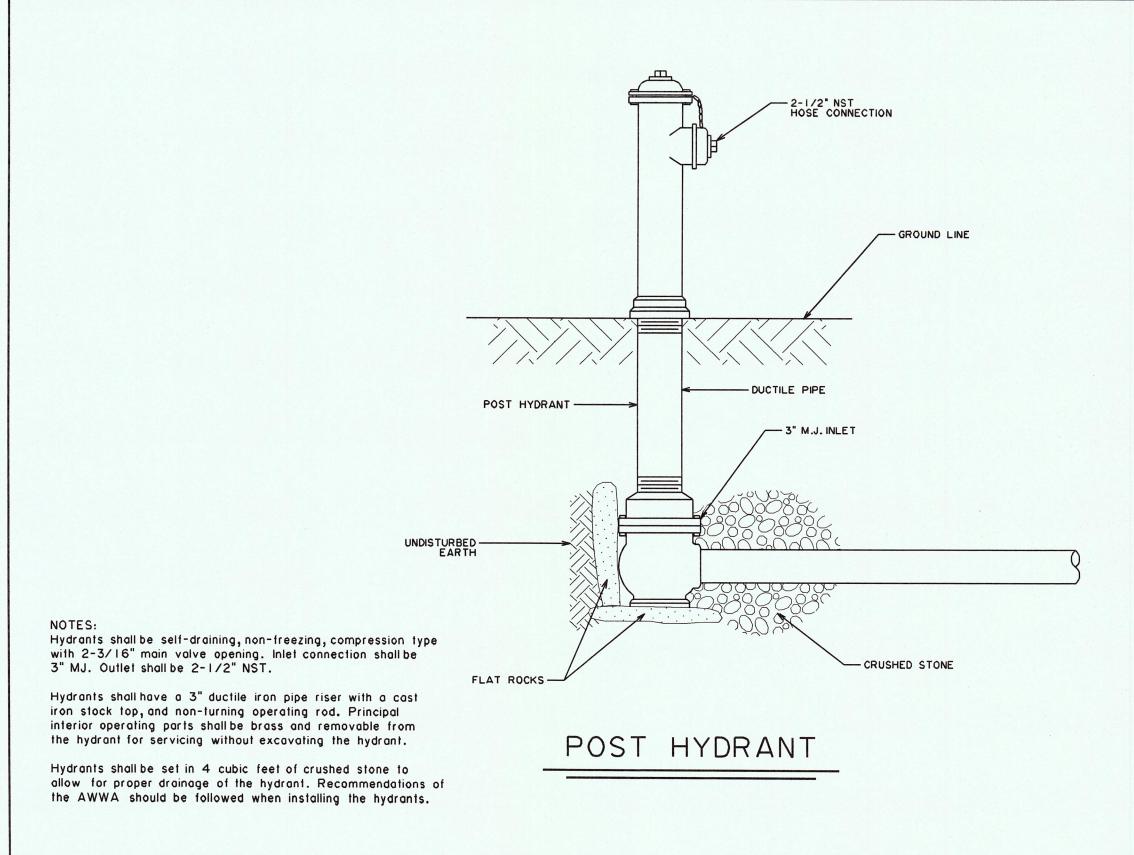
RIP-RAP DETAIL STREAM CROSSING SECTION













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HARRIMAN UTILITY BOARD Roane County, Tennessee			STANDARD WATER DETAILS			SHEET 5
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