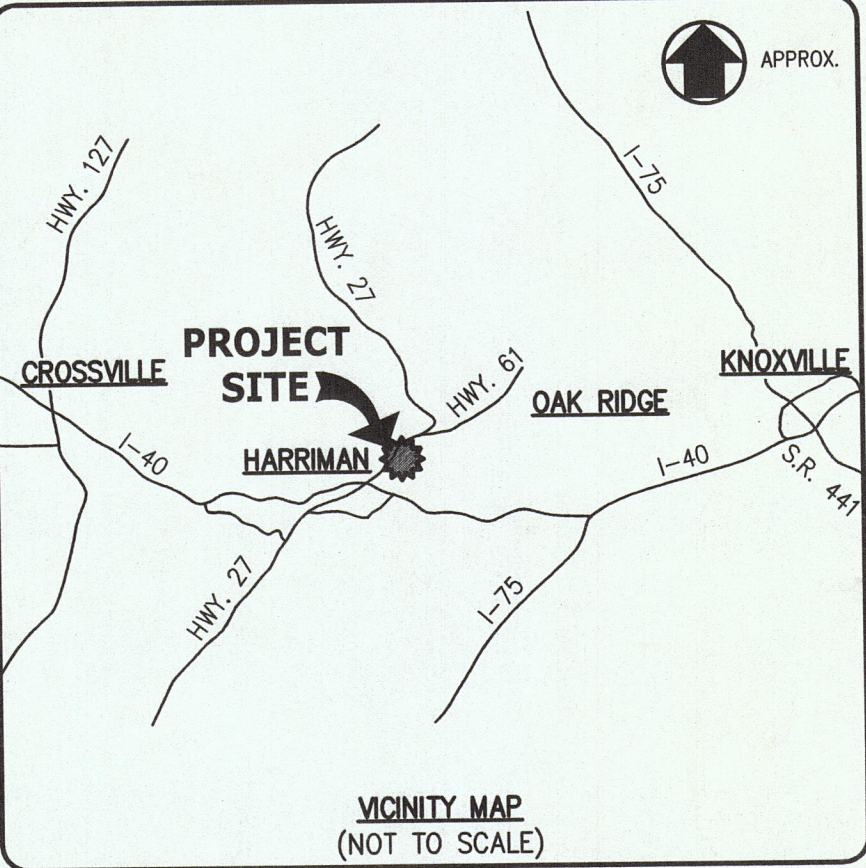


HARRIMAN UTILITY BOARD

CAST IRON GAS MAIN REPLACEMENT PHASE III & IV

HARRIMAN, TENNESSEE



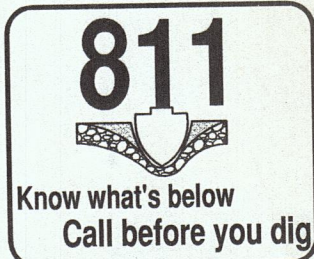
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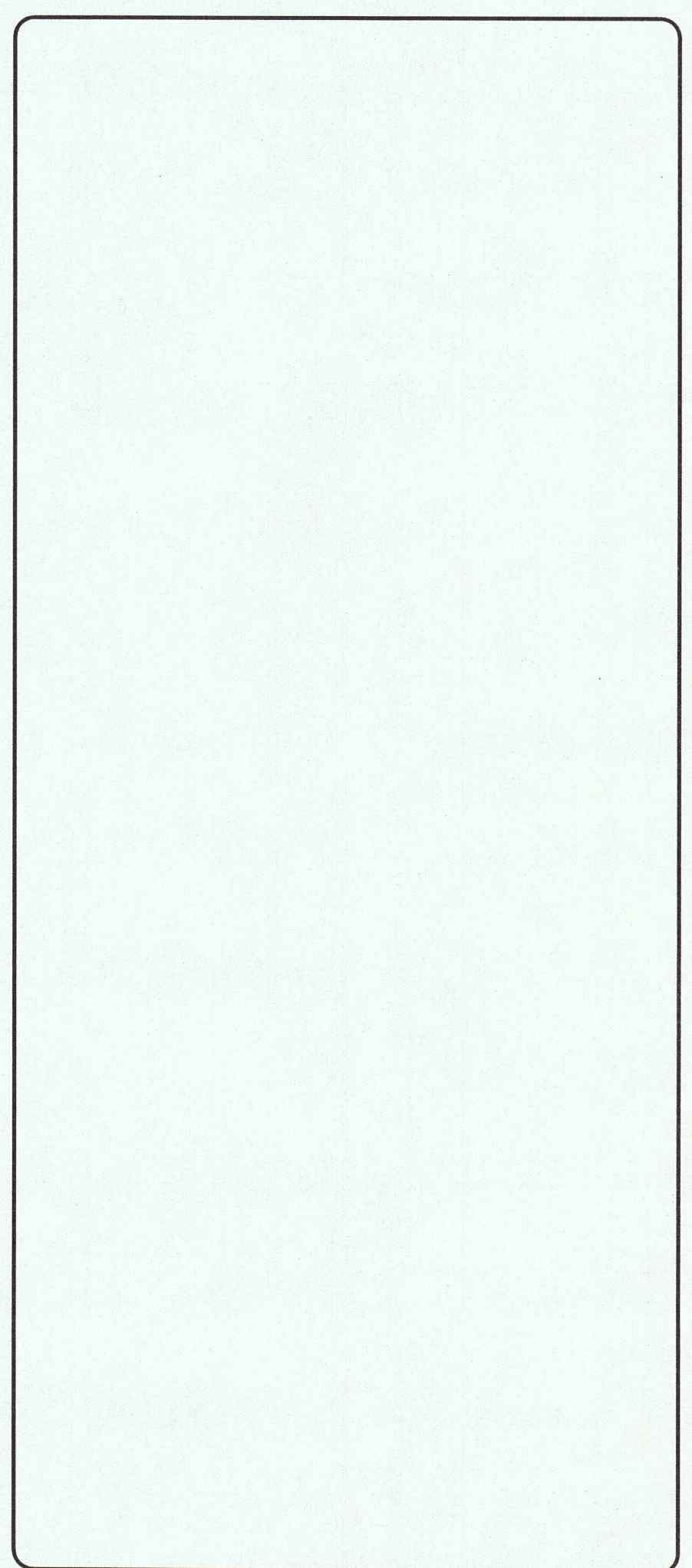
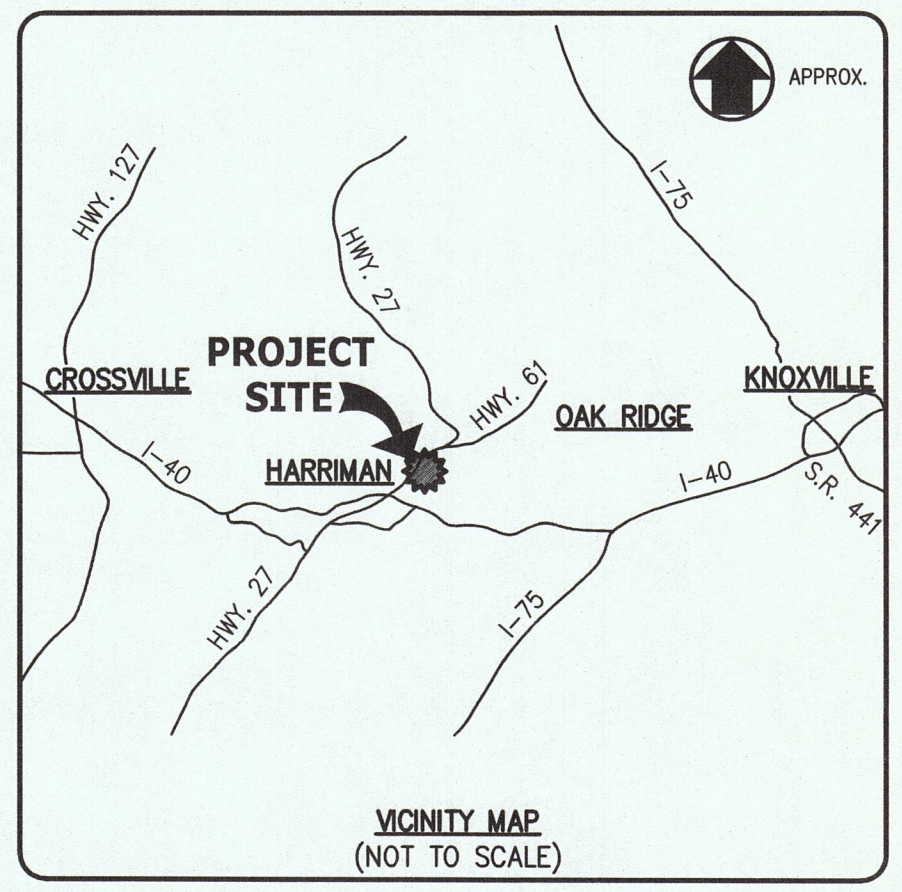
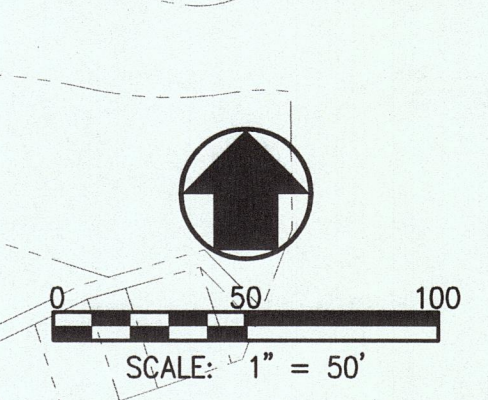
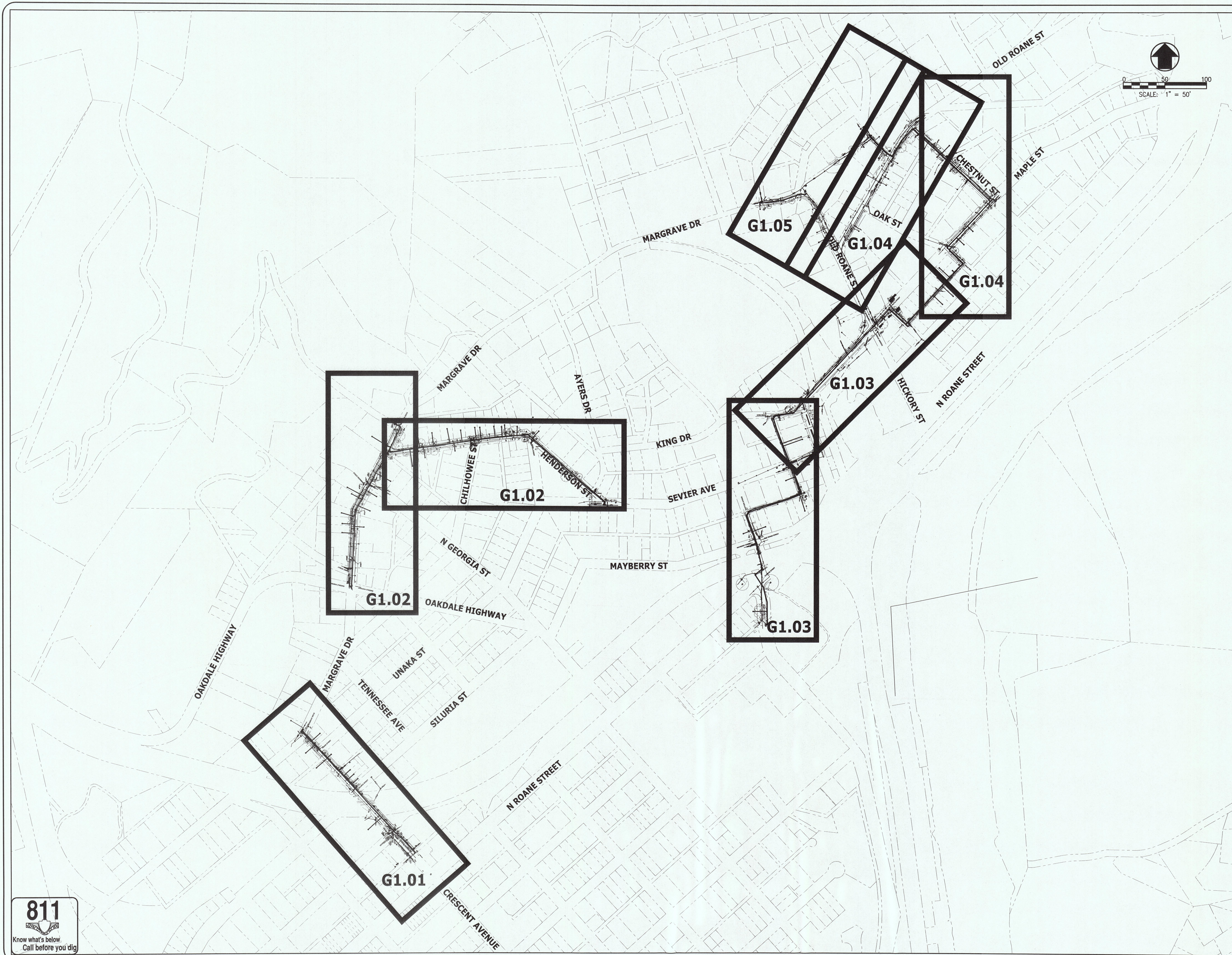
- G0.01 COVER SHEET
- G0.02 DRAWING SHEET INDEX
- G0.03 GENERAL NOTES AND LEGEND
- G1.01 GAS LINE 'A' PLAN STA. 0+00 TO STA. 10+03 E.O.L.
- G1.02 GAS LINE 'B' PLAN STA. 0+00 TO STA. 10+77 E.O.L. & GAS LINE 'C' PLAN STA. 0+00 TO STA. 14+78 E.O.L.
- G1.03 GAS LINE 'D' PLAN STA. 0+00 TO STA. 29+50
- G1.04 GAS LINE 'D' PLAN STA. 29+50 TO STA. 47+00
- G1.05 GAS LINE 'D' PLAN STA. 47+00 TO STA. 47+43 E.O.L. GAS LINE 'E' PLAN STA. 0+00 TO STA. 2+93 E.O.L.
- G2.01 DETAILS



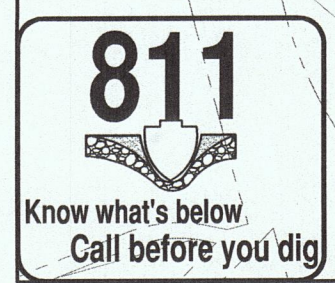
LOCATION MAP
NOT TO SCALE

REVISIONS		DATE
CANNON & CANNON INC CONSULTING ENGINEERS - FIELD SURVEYORS TEL: 865.670.8555 8560 Kingston Pike WWW.CANNON-CANNON.COM Knoxville, TN 37919		
CLIENT: HARRIMAN UTILITY BOARD 300 NORTH ROANE STREET HARRIMAN, TN 37748 (865) 882-3242		
PROJECT: CAST IRON GAS MAIN REPLACEMENT PHASE III & IV HARRIMAN, TN		
COVER SHEET		
PRELIMINARY FOR REVIEW ONLY	CCI PROJECT NO. 00923-0010	
	DRAWING DATE MAY 22, 2018	
	PM WWL	QC SAF
	DRAWN WBW	PIC WHC
G0.01		





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	DRAWING DATE MAY 22, 2018	
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G0.02		

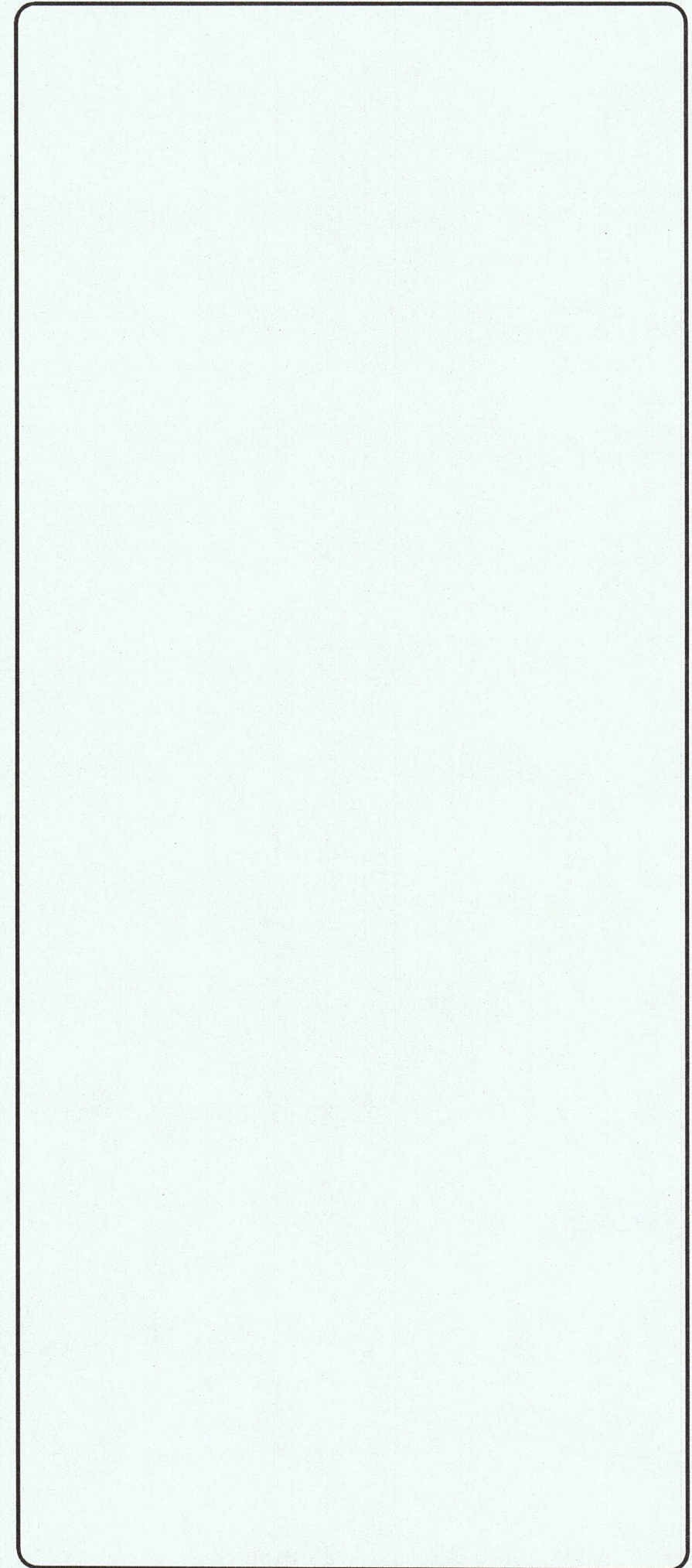


1. CONSTRUCTION MATERIALS AND INSTALLATION MUST MEET PROJECT SPECIFICATIONS. MATERIAL SUBMITTALS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
2. SUBMIT WELDERS' QUALIFICATION STATEMENTS & CERTIFICATES TO THE ENGINEER PRIOR TO START OF CONSTRUCTION FOR EVERY WELDER THAT MAY WORK ON THIS PROJECT.
3. THE CONTRACTOR SHALL STAKE THE PROPOSED GAS MAIN LAYOUTS TO ALLOW AMPLIFIED TIME FOR THE ENGINEER TO INSPECT THE LAYOUTS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR INSPECTION AT LEAST FIVE (5) DAYS PRIOR TO START OF CONSTRUCTION.
4. ALL TIE-INS SHALL BE ACCOMPLISHED WITHOUT INTERRUPTION OF GAS SERVICE TO ANY CUSTOMER BY USING LINE STOPS AND TEMPORARY BYPASSES AS SHOWN ON PLANS AND AS APPROVED BY THE ENGINEER.
5. COORDINATE TRAFFIC CONTROL AND TIE-INS AROUND HARRIMAN HIGH SCHOOL AND HARRIMAN MIDDLE SCHOOL WITH THE CITY OF HARRIMAN AND THE SCHOOL DISTRICT. NO GAS OUTAGES TO THE SCHOOLS WILL BE ALLOWED. CONTACT SCHOOL PRINCIPALS AND THE CITY MANAGER FOR COORDINATION.

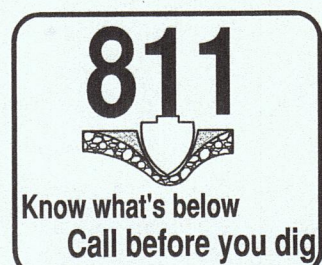
HIGH SCHOOL PRINCIPAL: SCOTT CALLAHAN (865) 882-1821
MIDDLE SCHOOL PRINCIPAL: LESLIE SMITH (865) 882-1727
CITY MANAGER: KEVIN HELMS (865) 882-9414

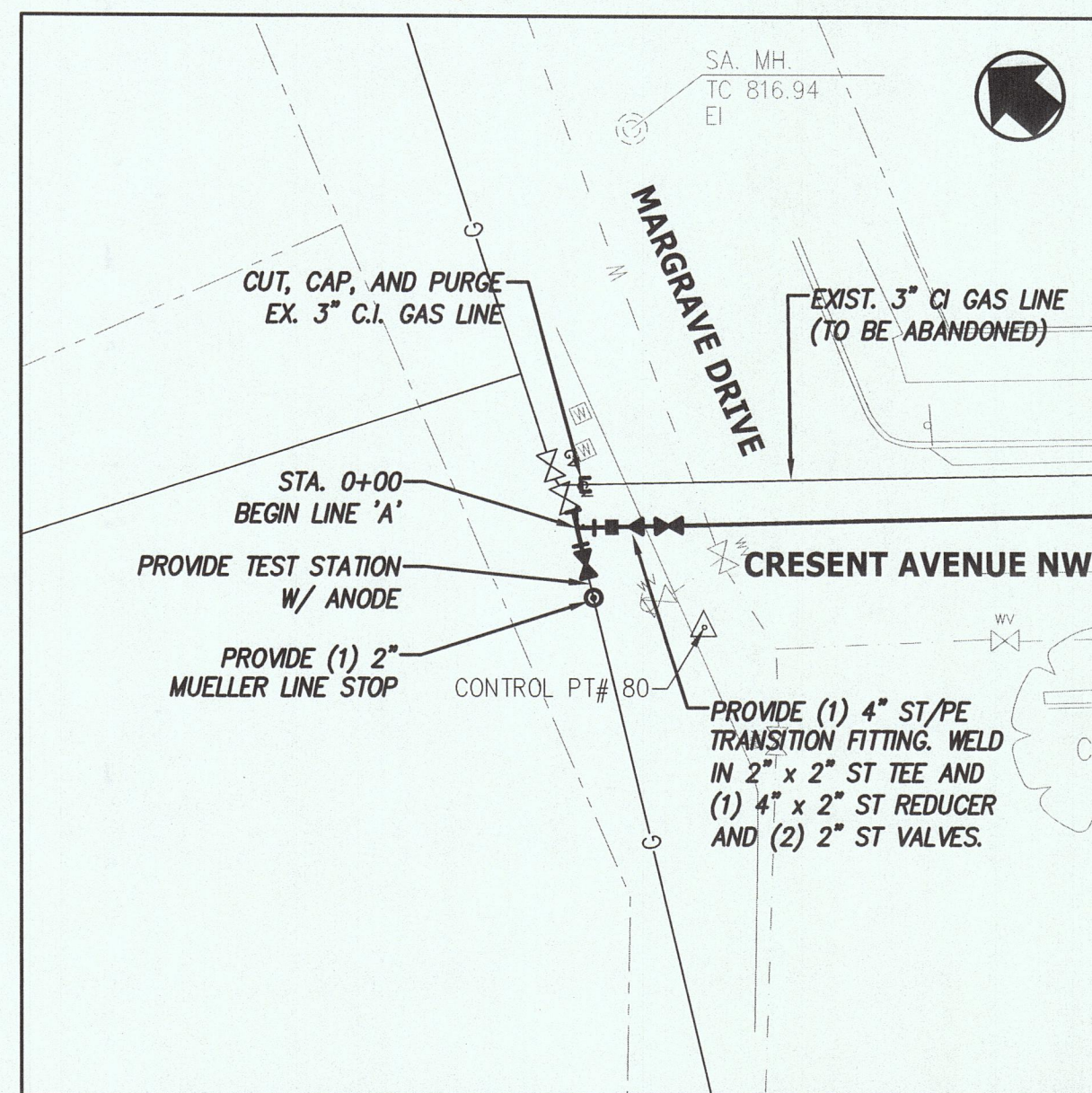
- 26.1. USE HIS OR HER OWN OPERATOR QUALIFICATION PLAN THAT HAS BEEN APPROVED BY HUB OR
- 26.2. USE A THIRD-PARTY OPERATOR QUALIFICATION PLAN THAT HAS BEEN APPROVED BY HUB.
27. THE CONTRACTOR SHALL HAVE ALL DOCUMENTATION DEMONSTRATING THAT PERSONNEL PERFORMING COVERED OQ TASKS ARE QUALIFIED TO PERFORM SUCH TASKS AND HAVE THAT DOCUMENTATION ELECTRONICALLY ACCESSIBLE BY HUB WITHIN 5 BUSINESS DAYS AFTER REQUEST BY HUB. HUB MAY CONSIDER THE CONTRACTOR IN DEFAULT IF THIS DOCUMENTATION IS NOT RECEIVED OR ELECTRONICALLY AVAILABLE WITHIN 5 BUSINESS DAYS AFTER THE REQUEST BY HUB.
28. CONTRACTOR WILL BE REQUIRED TO HAVE THE FOLLOWING SAFETY EQUIPMENT ON-SITE AS THE WORK IS PERFORMED.
 - 28.1. FIRE EXTINGUISHER – CONTRACTORS WILL NEED TO POSSESS A 10-LB "PURPLE K" BC TYPE OR GREATER EXTINGUISHER.
 - 28.2. A FIRE HOOD(S) FOR ALL PERSONNEL WORKING IN LIVE GAS WILL NEED TO PROVIDE COVERAGE FOR HEAD, FACE AND NECK AND BE CLASSIFIED AS FIRE RESISTANT.
 - 28.3. A FIRE SUIT(S) FOR ALL PERSONNEL WORKING DIRECTLY IN LIVE GAS WILL NEED TO BE – INSULATED FLAME RESISTANT ONE PIECE COVERALL.
29. EACH CONTRACTOR EMPLOYEE, PERFORMING OR PARTICIPATING IN THE PERFORMANCE OF A COVERED TASK, SHALL ADHERE TO THE FOLLOWING GUIDELINES FOR FIRE RETARDANT CLOTHING WHEN WORKING IN CONDITIONS AS STATED BELOW:
 - 29.1. INITIAL EXCAVATION ACTIVITIES – 100% COTTON UNDERWEAR, COTTON SOCKS, COTTON SHIRT, COTTON PANTS, LEATHER WORK BOOTS + APPROPRIATE PPE FOR TASK.
 - 29.2. HAND EXCAVATION OF SERVICE TEE – 100% COTTON UNDERWEAR, COTTON SOCKS, COTTON SHIRT, COTTON PANTS, LEATHER WORK BOOTS + APPROPRIATE PPE FOR TASK.
 - 29.3. SQUEEZE OFF OF PIPELINE – 100% COTTON CLOTHING PLUS HOODED FLAME RESISTANT 1 PIECE COVERALL, FLAME RESISTANT HEAD SOCK, + APPROPRIATE PPE FOR TASK.
 - 29.4. BLOWING GAS ENVIRONMENT – 100% COTTON CLOTHING PLUS HOODED INSULATED FLAME RESISTANT ONCE PIECE COVERALL, FLAME RESISTANT HEAD SOCK AND LEATHER GLOVES.
30. CONTRACTOR SHALL COMPLETE BTU LOAD FORM (SECTION 33 51 15) FOR EACH SERVICE TO BE REPLACED OR OTHERWISE INSTALLED NEW. SUBMIT FORM TO ENGINEER. HUB WILL SIZE EFV FOR EACH SERVICE. CONTRACTOR TO PROVIDE AND INSTALL EACH EFV.
31. ALL STEEL GAS MAIN SHALL BE WELDED. FLANGES WILL NOT BE ALLOWED. WHERE CONNECTING TO EXISTING FLANGED VALVES, CONTRACTOR SHALL USE WELD NECK FLANGES.
32. GAS MAIN AND SERVICE LINE INSTALLATION SHALL BE OPEN CUT UNLESS SPECIFICALLY SHOWN OTHERWISE ON PLANS OR APPROVED IN WRITING BY ENGINEER. IN GENERAL, MAIN AND SERVICE LINE INSTALLATION IN ALLEYS AND CITY STREETS NEAR OTHER UTILITIES WILL BE BY OPEN CUT AND TRENCHLESS INSTALLATION WILL NOT BE APPROVED IN THESE AREAS.
33. TRACER WIRE SHALL PASS CONTINUITY TEST BY HUB PERSONNEL PRIOR TO PATCHING ASPHALT. TEST WILL CHECK FOR CONTINUITY OF SIGNAL ALONG MAIN, BETWEEN MAIN AND SERVICES, AND ALONG SERVICES. CONTACT JEFF MIZE OF HUB AT (865) 755-4173 FOR TESTING 72 HOURS PRIOR TO PATCHING.

	PROPOSED GAS MAIN
	PROPOSED GAS SERVICE
	EXISTING GAS TO REMAIN
	EXISTING GAS TO BE ABANDONED
	EXISTING WATER
	EXISTING WATER VALVE
	EXISTING SANITARY SEWER
	EXISTING SEWER MANHOLE
	EXISTING PROPERTY LINE
	EXISTING GAS METER
	EXISTING GAS VALVE
	EXISTING GAS MARKER
	EXISTING POWER MANHOLE
	EXISTING TELEPHONE/COMM. MANHOLE
	EXISTING STORM SEWER
	EXISTING STORM CATCHBASIN
	EXISTING LIGHT POLE
	EXISTING POWER POLE
	SURVEY CONTROL POINT
	EXISTING FENCE
	EXISTING BUILDING
	PROPOSED GAS VALVE
	PROPOSED TRANSITION COUPLING
	PROPOSED REDUCER
	PROPOSED LINE STOP

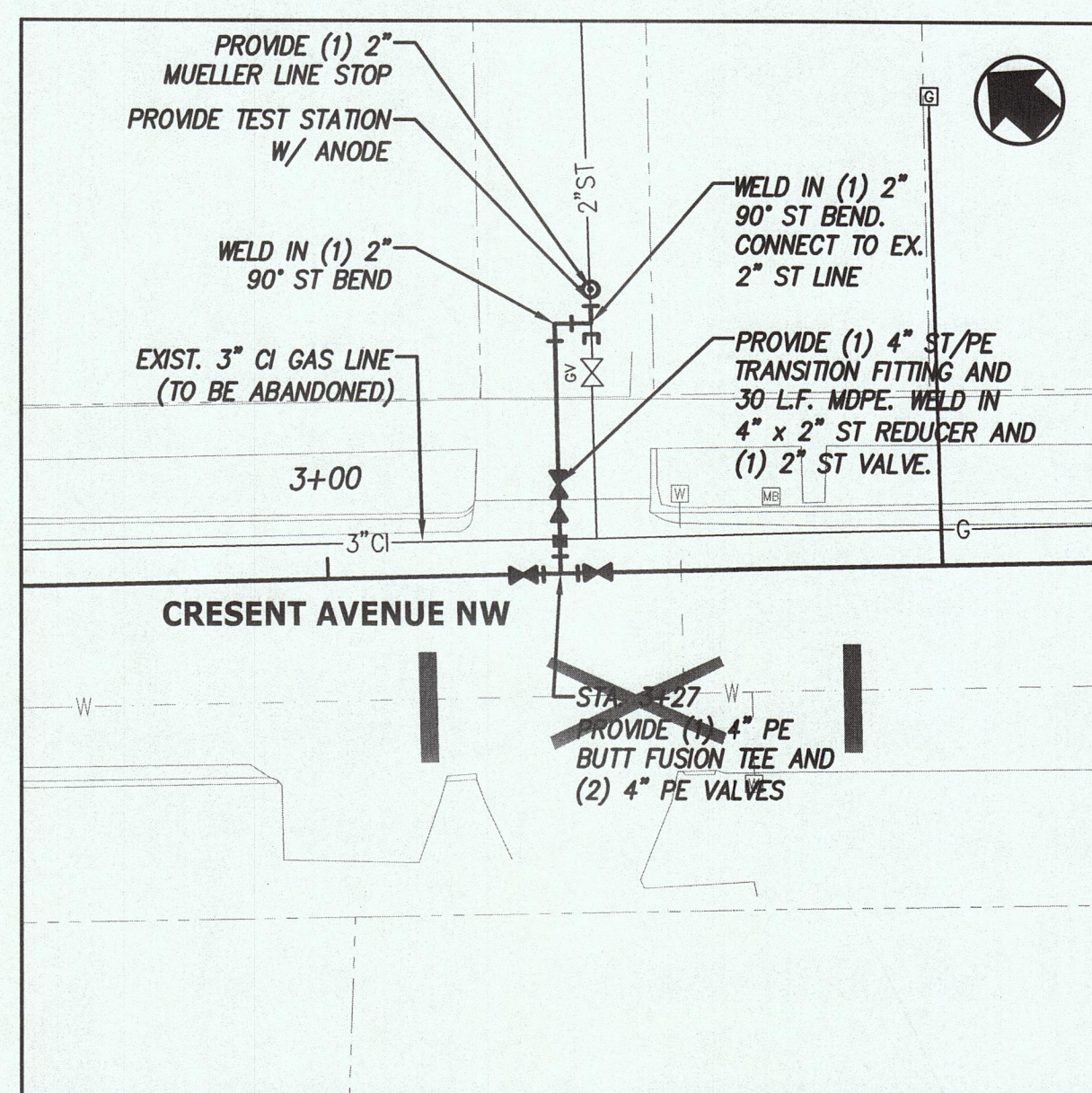


REVISIONS	DATE
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G0.03	

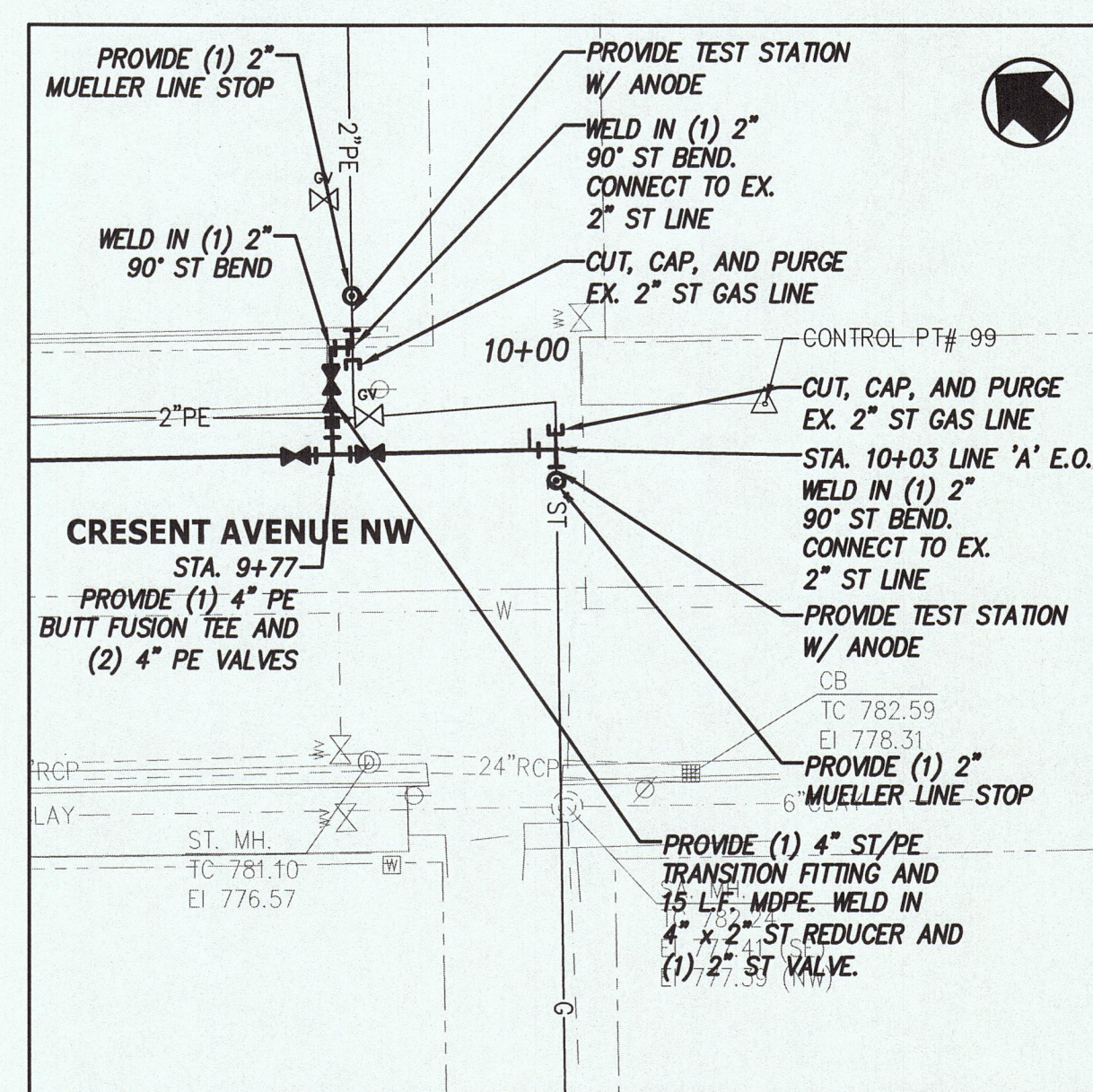




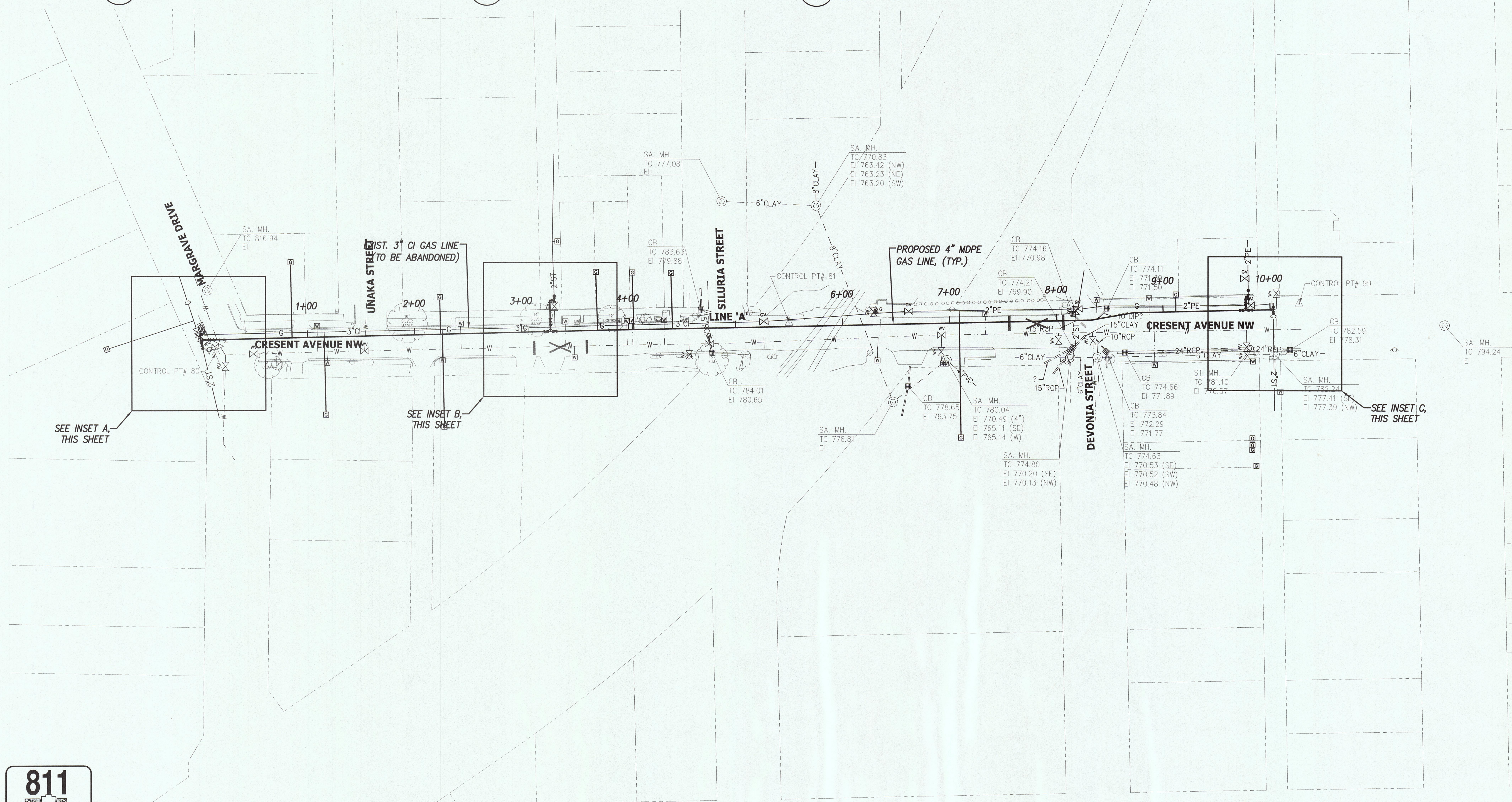
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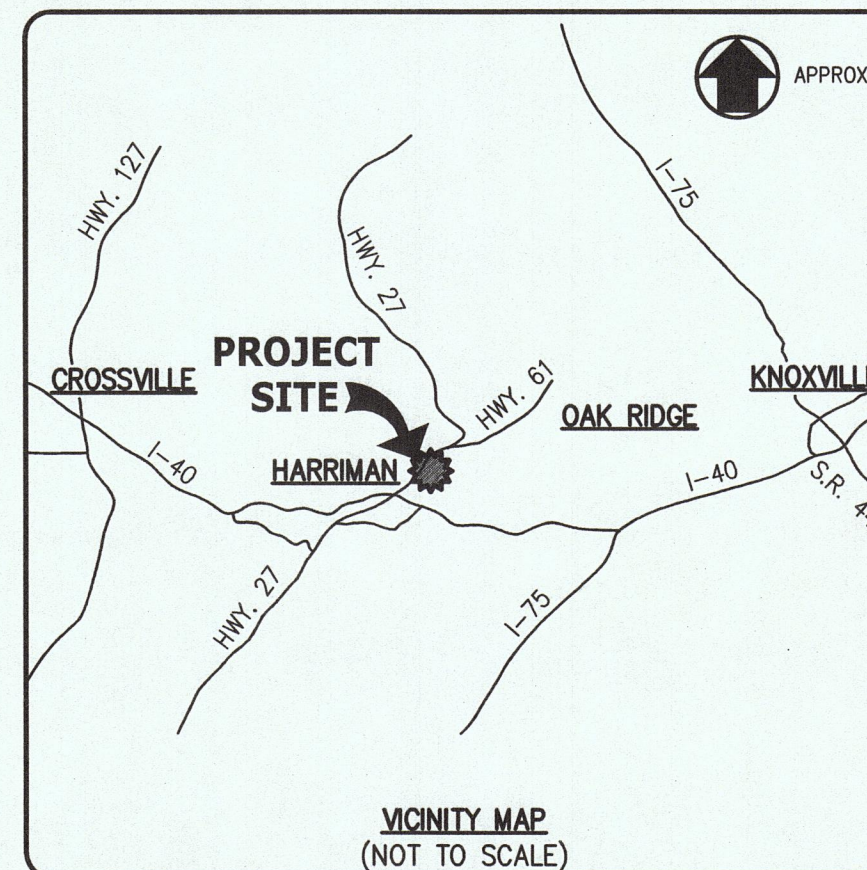
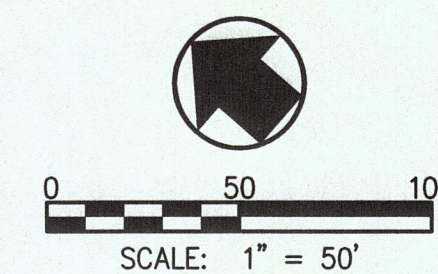
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C LINE A STA. 9+77 & STA. 10+03
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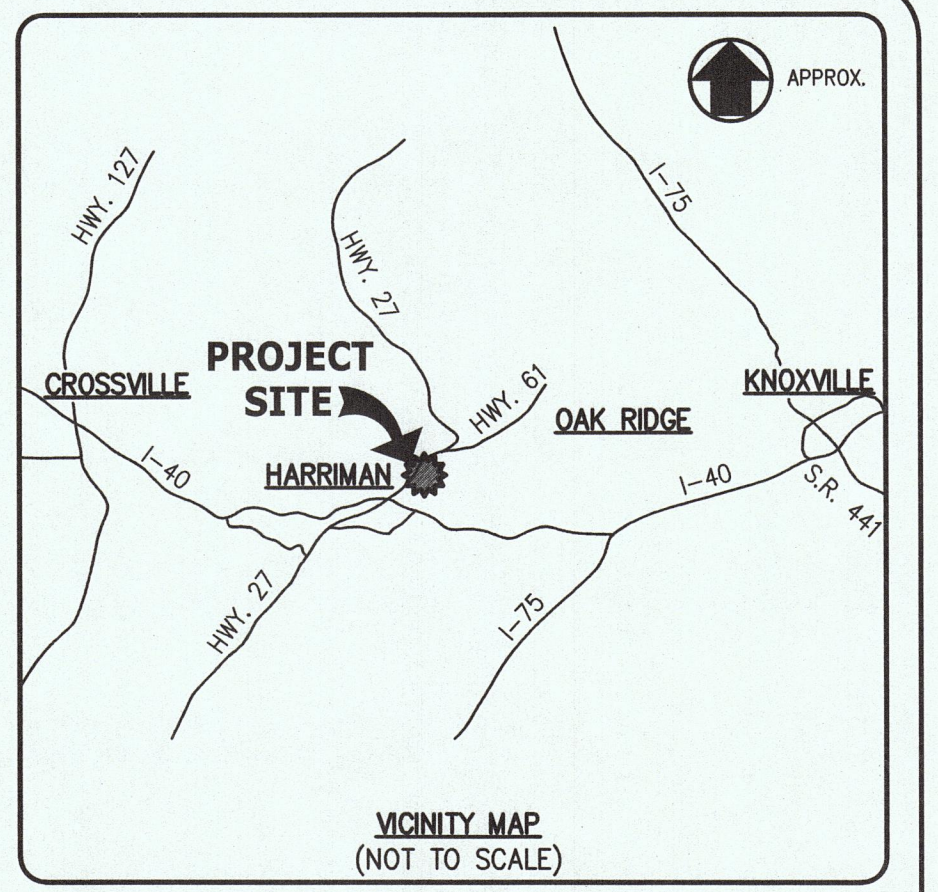
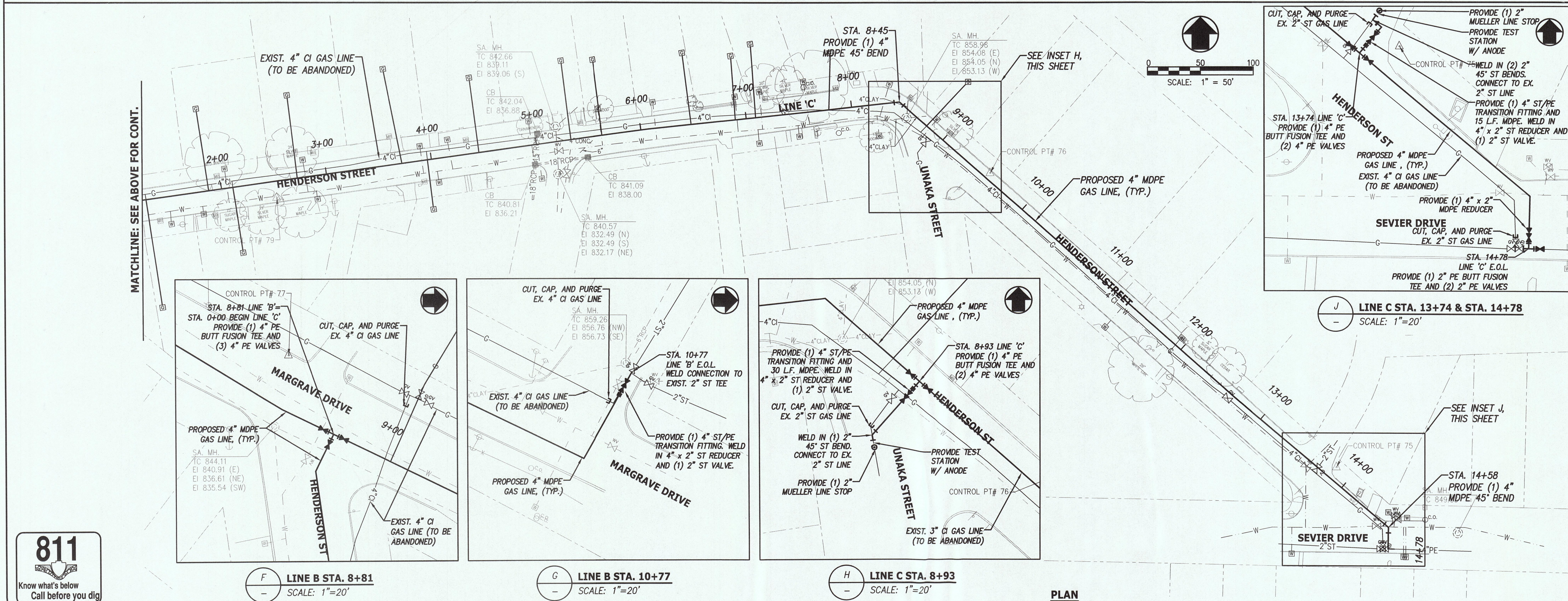
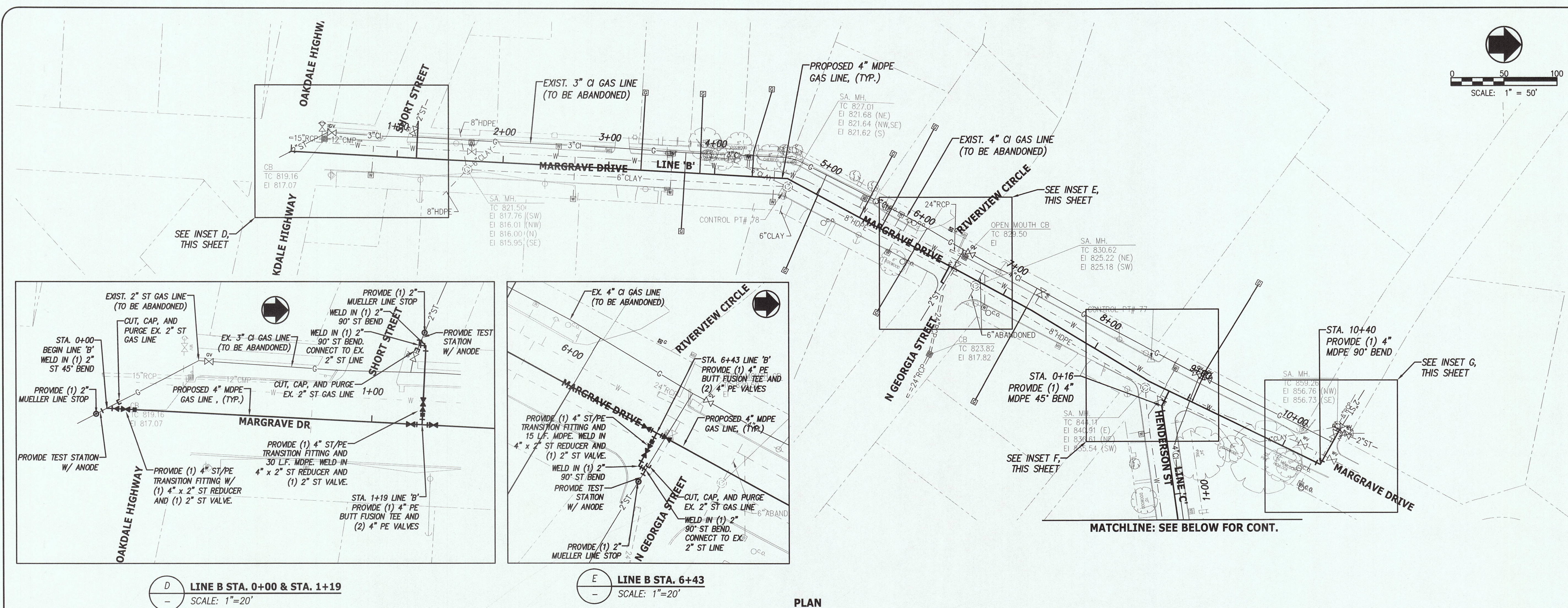


PLAN



LEGEND	
	PROPOSED GAS MAIN
	PROPOSED GAS SERVICE
	EXISTING GAS TO REMAIN
	EXISTING GAS TO BE ABANDONED
	EXISTING WATER
	EXISTING WATER VALVE
	EXISTING SANITARY SEWER
	EXISTING SEWER MANHOLE
	EXISTING PROPERTY LINE
	EXISTING GAS METER
	EXISTING GAS VALVE
	EXISTING GAS MARKER
	EXISTING POWER MANHOLE
	EXISTING TELEPHONE/COMM. M.H.
	EXISTING STORM SEWER
	EXISTING STORM CATCHBASIN
	EXISTING LIGHT POLE
	EXISTING POWER POLE
	SURVEY CONTROL POINT
	EXISTING FENCE
	EXISTING BUILDING
	PROPOSED GAS VALVE
	PROPOSED TRANSITION COUPLING
	PROPOSED REDUCER
	PROPOSED LINE STOP

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GAS LINE PLAN		
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G1.01		

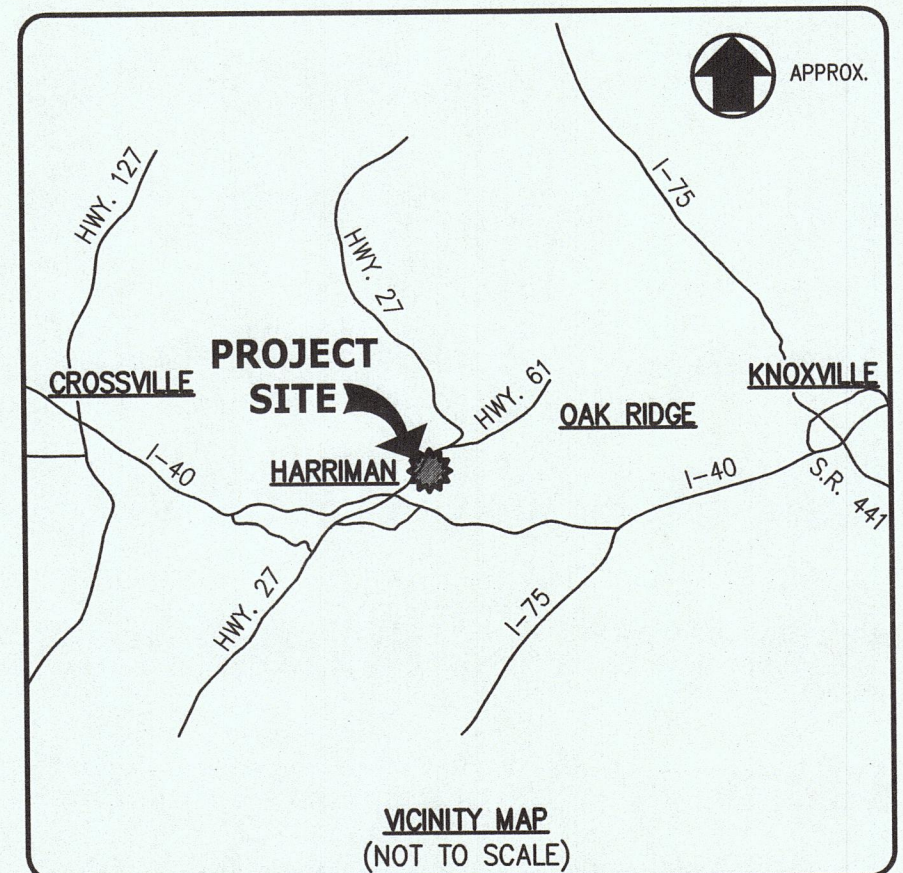
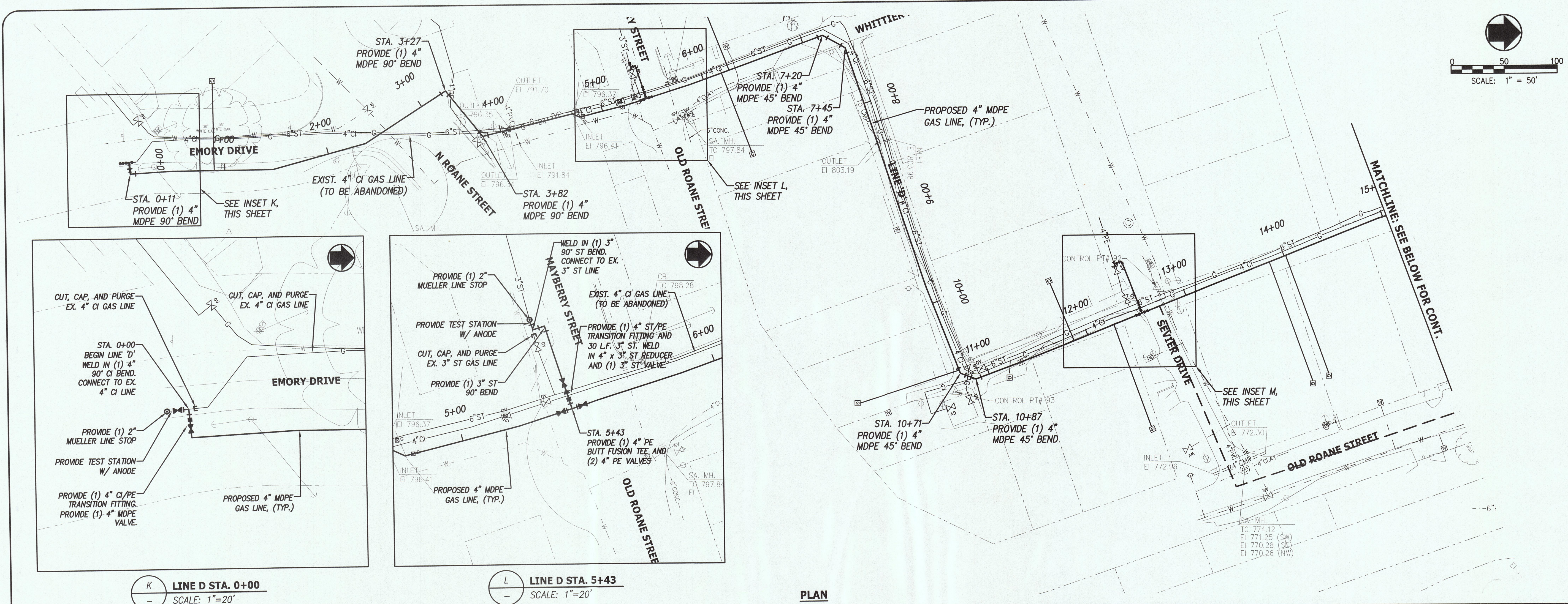


LEGEND

—	PROPOSED GAS MAIN
—	PROPOSED GAS SERVICE
—	EXISTING GAS TO REMAIN
- - -	EXISTING GAS TO BE ABANDONED
—	EXISTING WATER
—	EXISTING WATER VALVE
—	EXISTING SANITARY SEWER
—	EXISTING SEWER MANHOLE
—	EXISTING PROPERTY LINE
—	EXISTING GAS METER
—	EXISTING GAS VALVE
—	EXISTING POWER MARKER
—	EXISTING POWER MANHOLE
—	EXISTING TELEPHONE/COMM. M.H.
—	EXISTING STORM SEWER
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—	EXISTING LIGHT POLE
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—	EXISTING FENCE
—	EXISTING BUILDING
—	PROPOSED GAS VALVE
—	PROPOSED TRANSITION COUPLING
—	PROPOSED REDUCER
—	PROPOSED LINE STOP

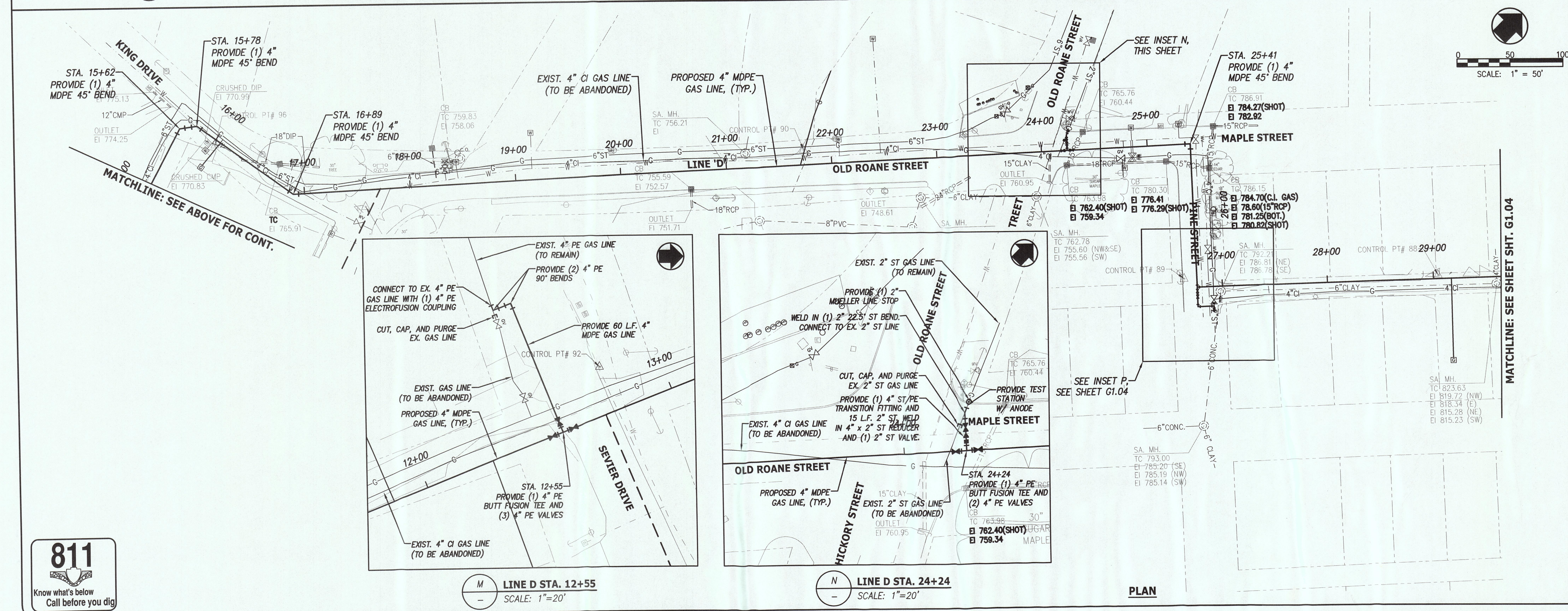
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CCJ PROJECT NO.	00923-0010
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DRAWN WBW	PIC WHC
PRELIMINARY FOR REVIEW ONLY	
G1.02	





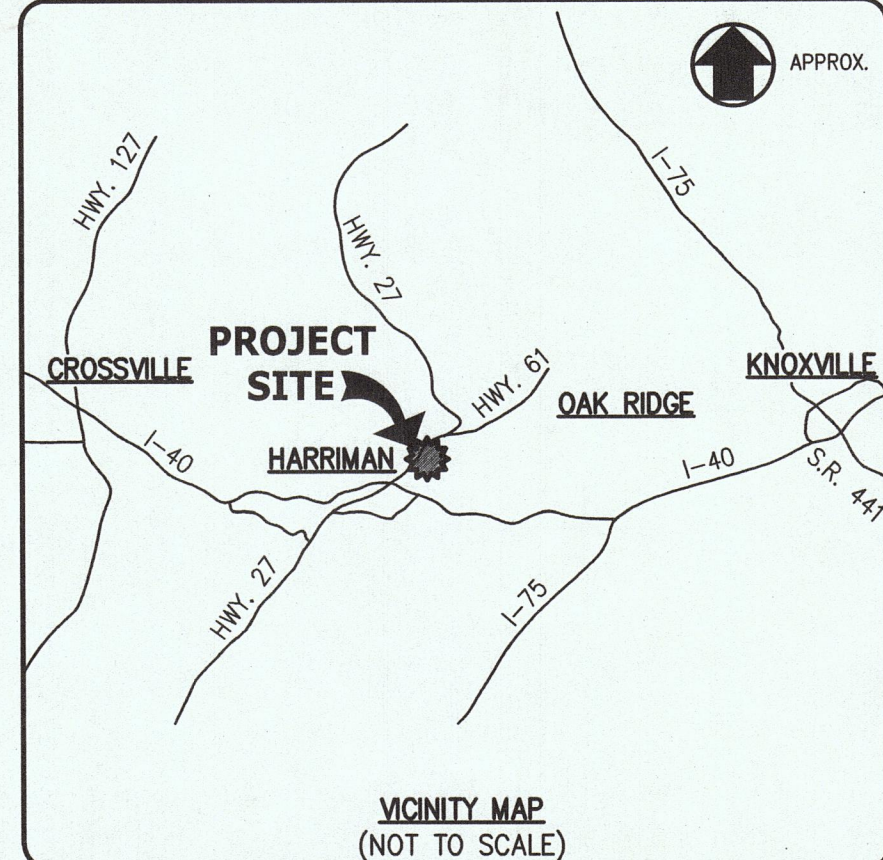
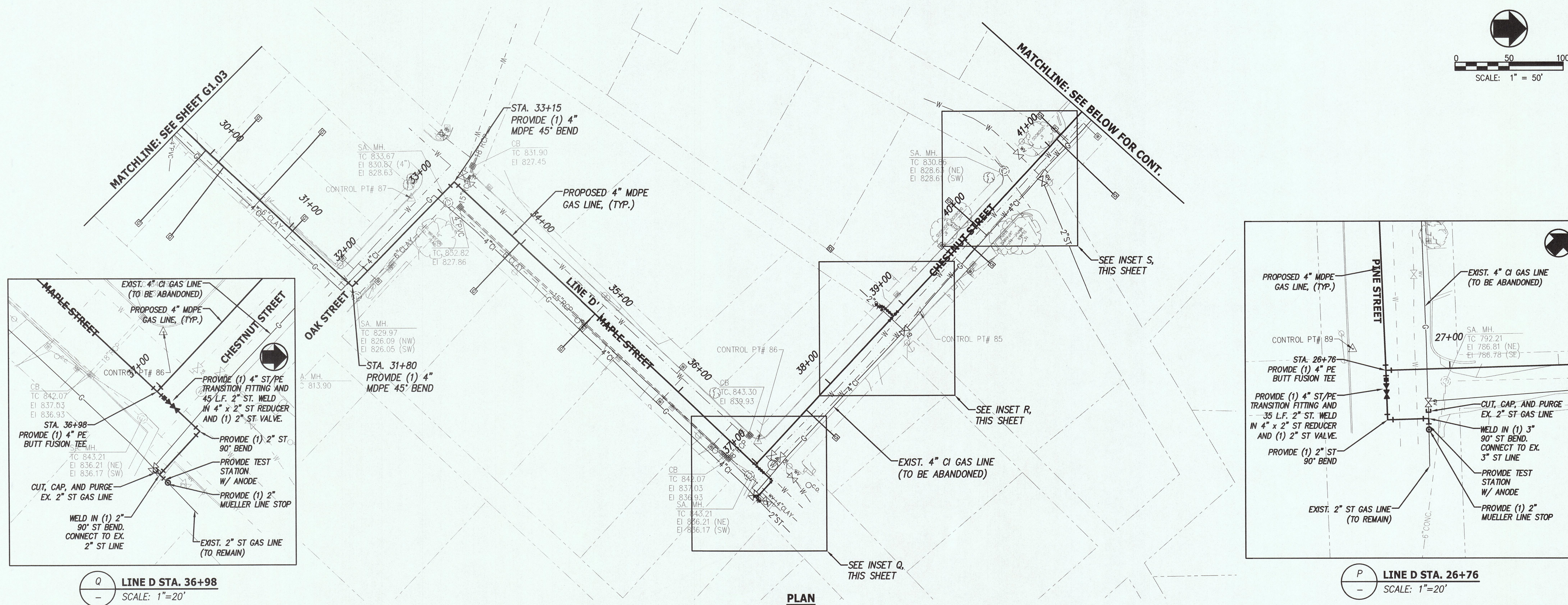
LEGEND

- PROPOSED GAS MAIN
- PROPOSED GAS SERVICE
- EXISTING GAS TO REMAIN
- EXISTING GAS TO BE ABANDONED
- EXISTING WATER
- EXISTING WATER VALVE
- EXISTING SANITARY SEWER
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- EXISTING GAS METER
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- PROPOSED TRANSITION COUPLING
- PROPOSED REDUCER
- PROPOSED LINE STOP

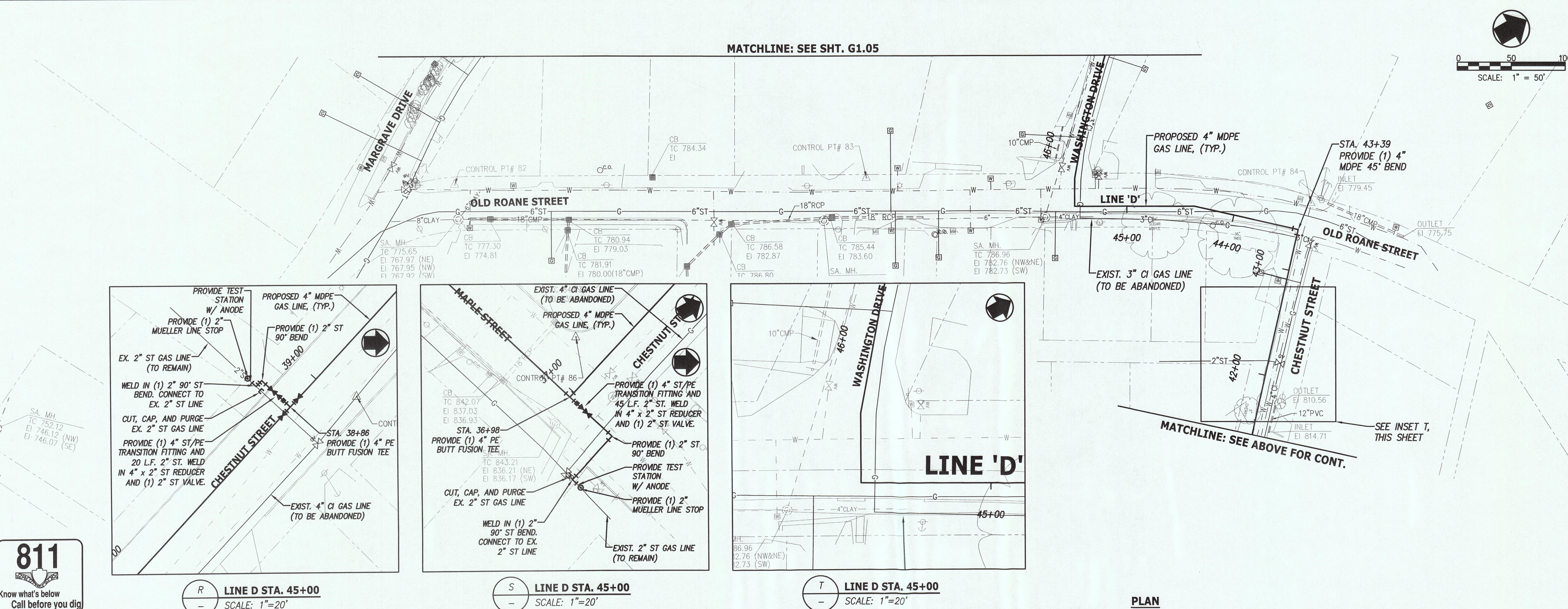


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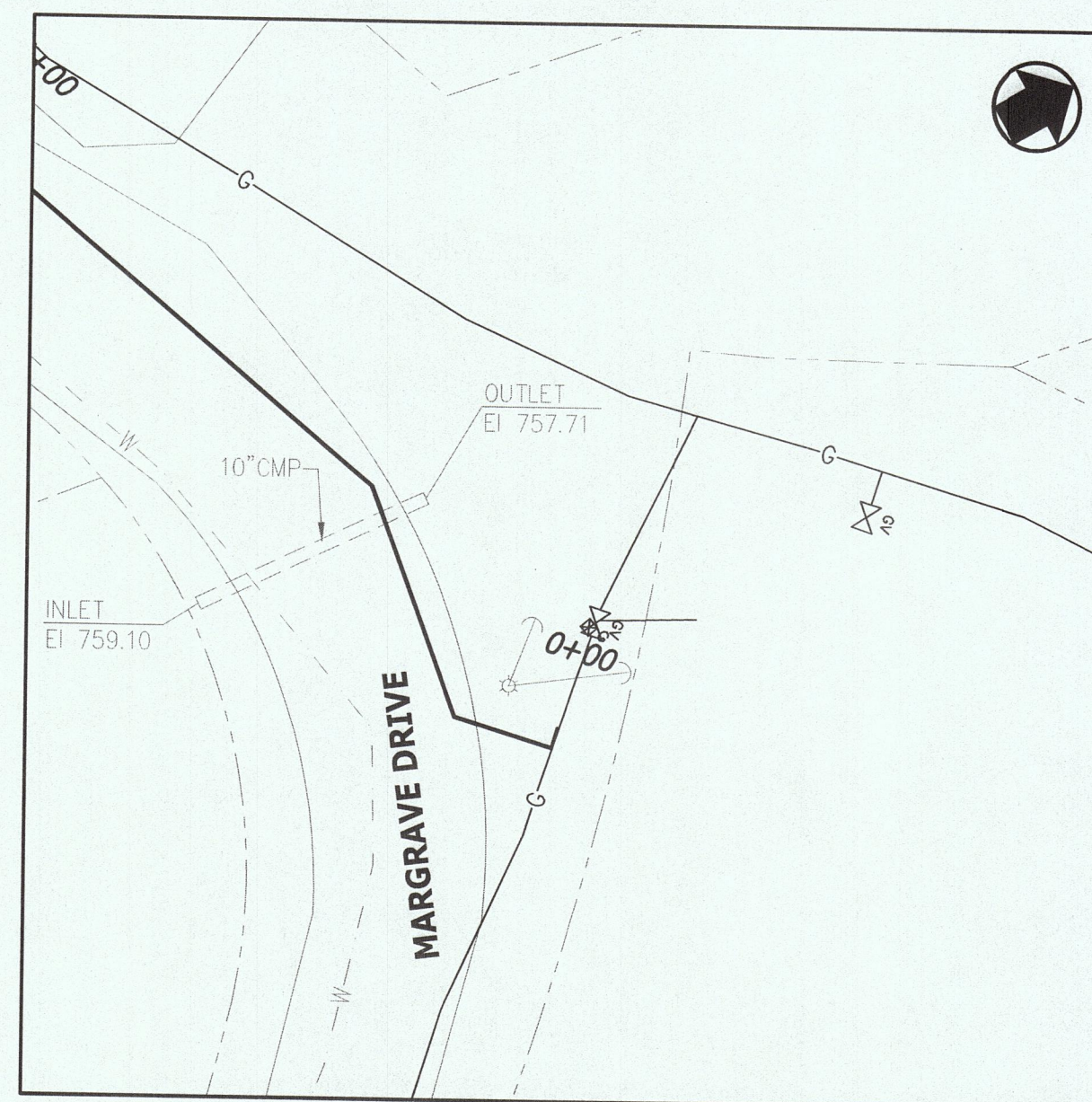


- LEGEND**
- PROPOSED GAS MAIN
 - PROPOSED GAS SERVICE
 - - - EXISTING GAS TO REMAIN
 - - - EXISTING GAS TO BE ABANDONED
 - - - EXISTING WATER
 - - - EXISTING WATER VALVE
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 - - - EXISTING BUILDING
 - PROPOSED GAS VALVE
 - PROPOSED TRANSITION COUPLING
 - ▲ PROPOSED REDUCER
 - PROPOSED LINE STOP

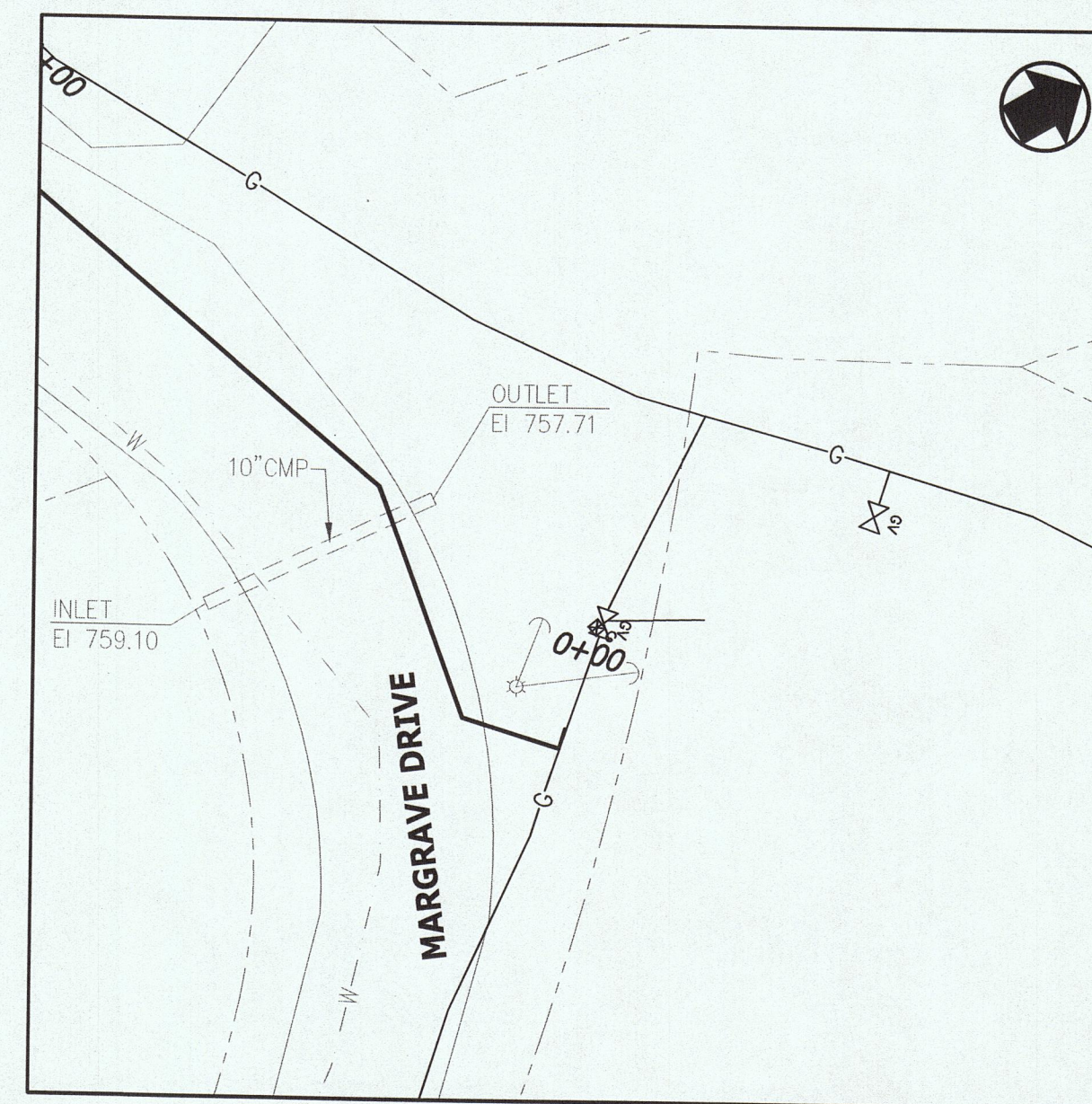


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G1.04	

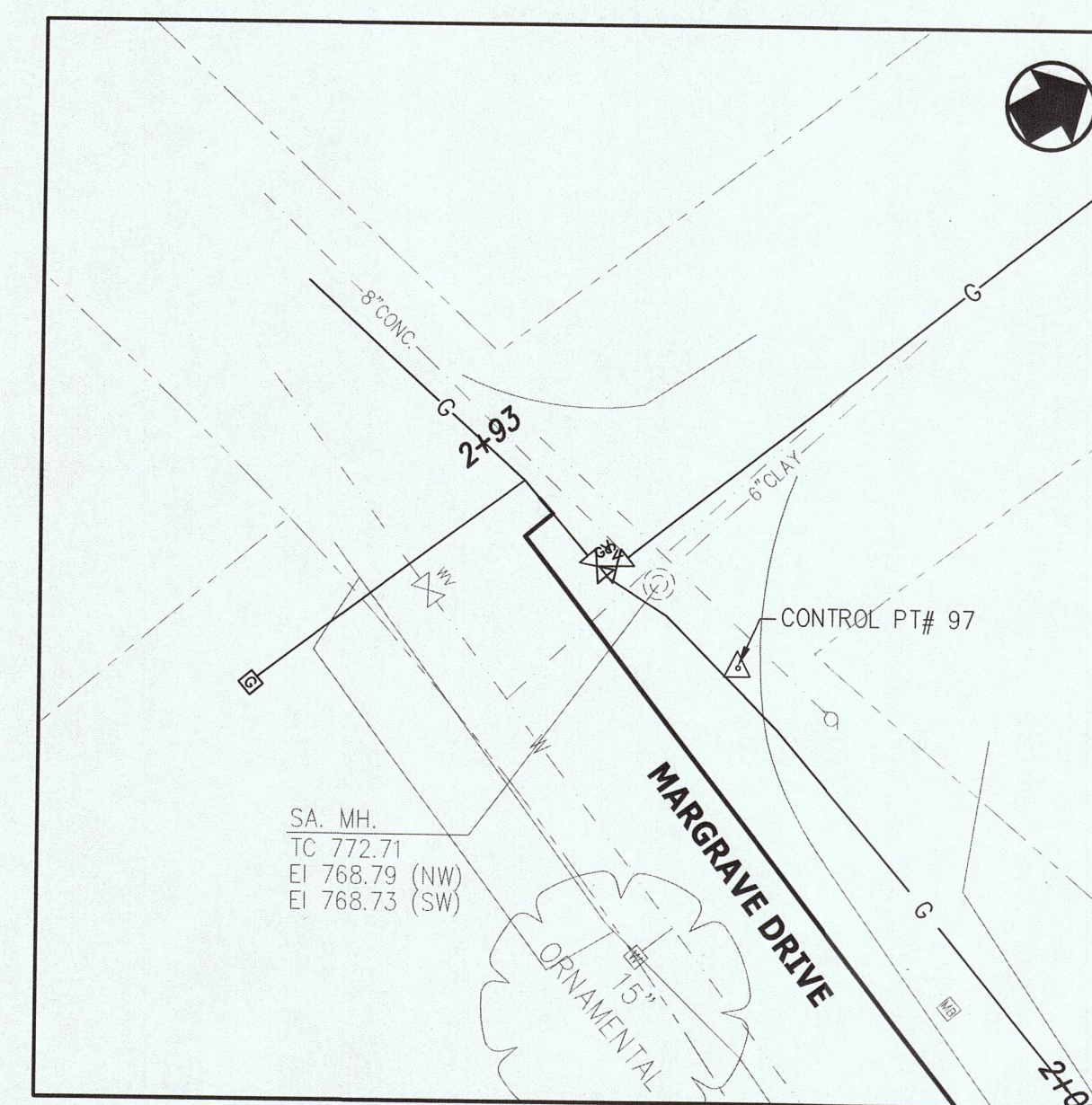
811
Know what's below
Call before you dig



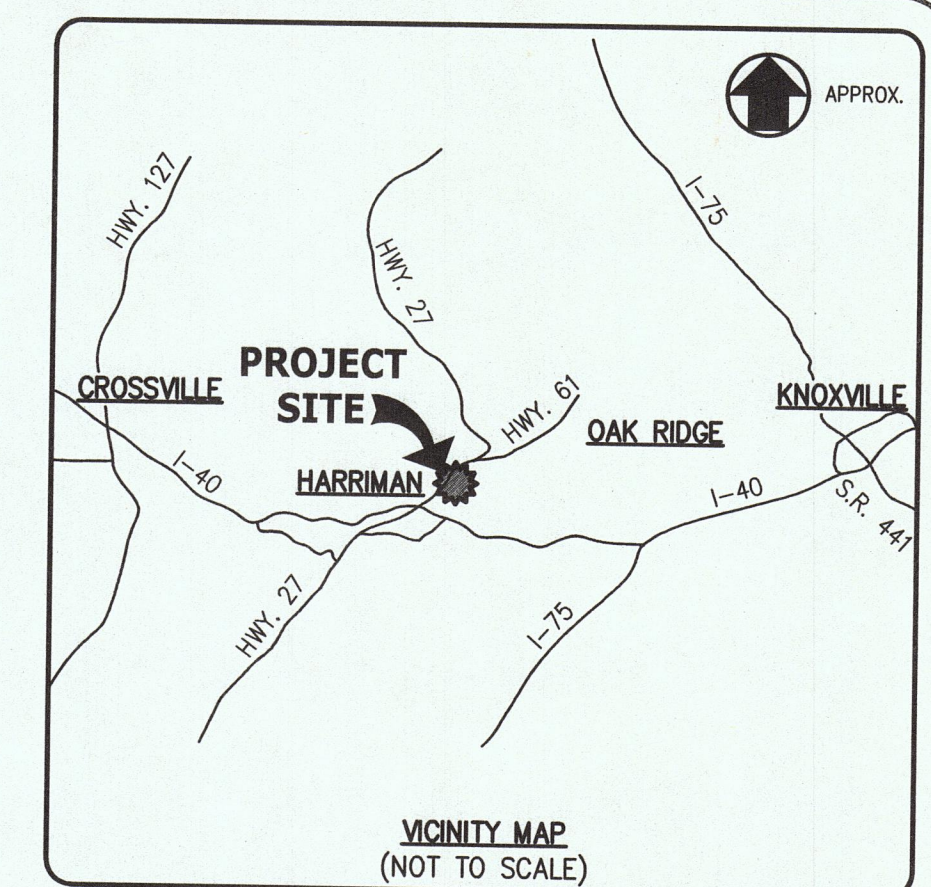
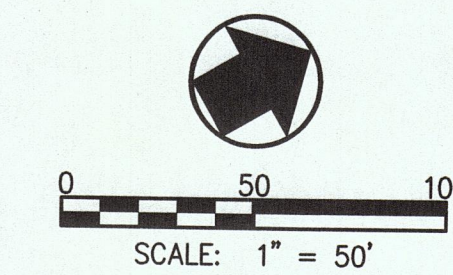
Q LINE D STA. 55+50
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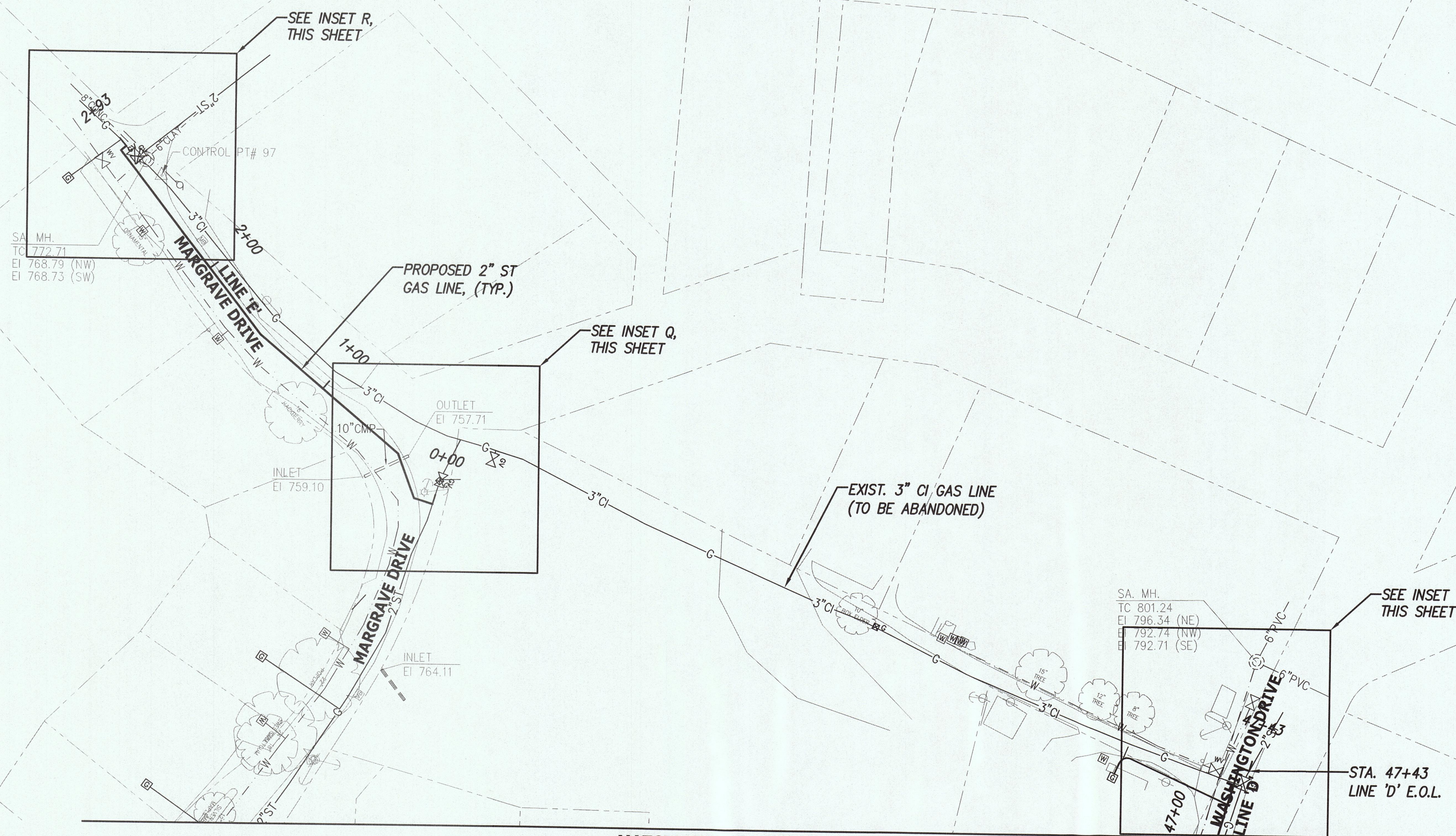
Q LINE D STA. 55+50
SCALE: 1"=20'



R LINE D STA. 57+88
SCALE: 1"=20'



- LEGEND**
- PROPOSED GAS MAIN
 - PROPOSED GAS SERVICE
 - EXISTING GAS TO REMAIN
 - - - EXISTING GAS TO BE ABANDONED
 - W- EXISTING WATER
 - WV- EXISTING WATER VALVE
 - SA- EXISTING SANITARY SEWER
 - EXISTING SEWER MANHOLE
 - EXISTING PROPERTY LINE
 - EXISTING GAS METER
 - EXISTING GAS VALVE
 - EXISTING GAS MARKER
 - EXISTING POWER MANHOLE
 - EXISTING TELEPHONE/COMM. M.H.
 - EXISTING STORM SEWER
 - EXISTING STORM CATCHBASIN
 - EXISTING LIGHT POLE
 - EXISTING POWER POLE
 - SURVEY CONTROL POINT
 - EXISTING FENCE
 - EXISTING BUILDING
 - PROPOSED GAS VALVE
 - PROPOSED TRANSITION COUPLING
 - PROPOSED REDUCER
 - PROPOSED LINE STOP



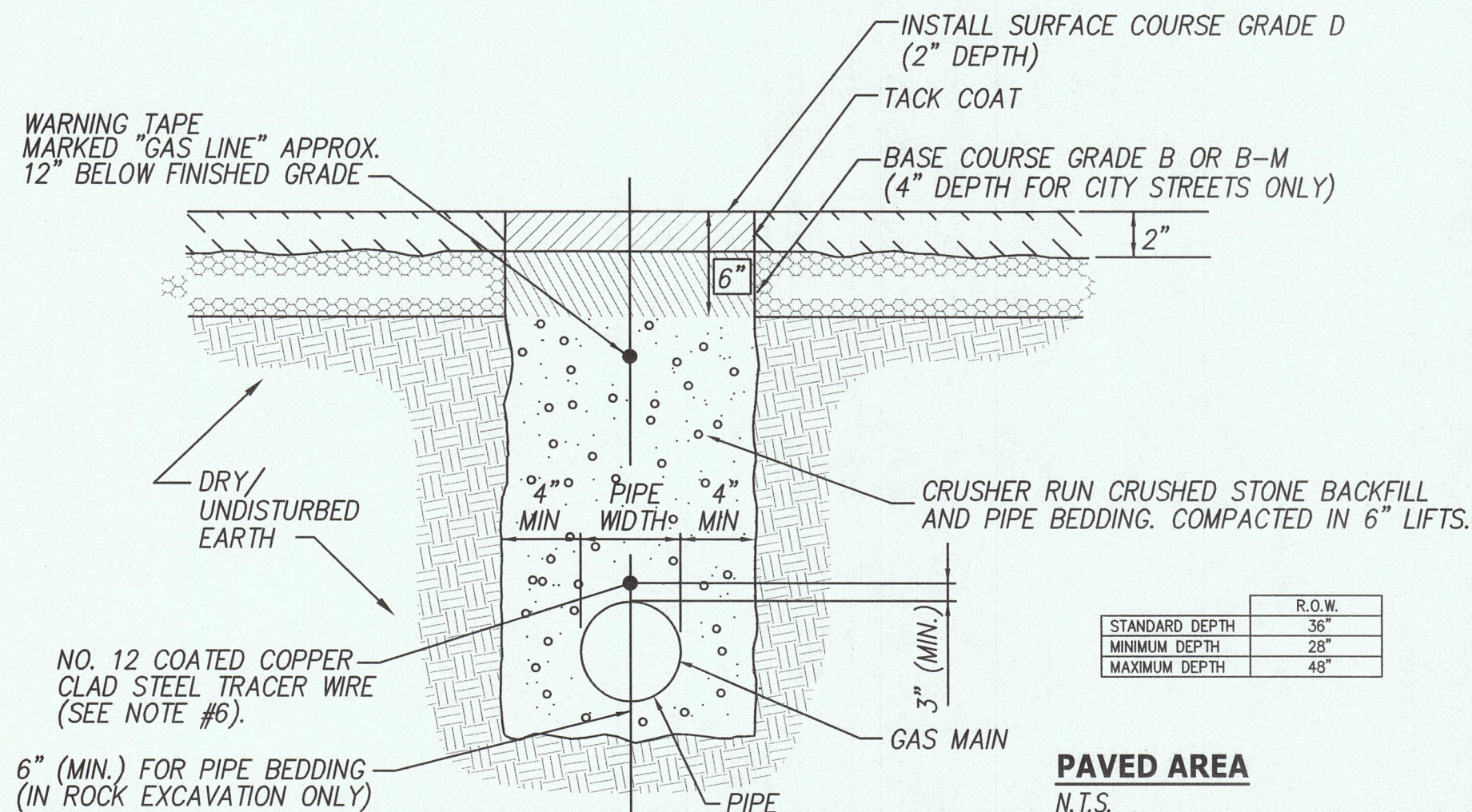
MATCHLINE: SEE SHT. G1.04

PLAN

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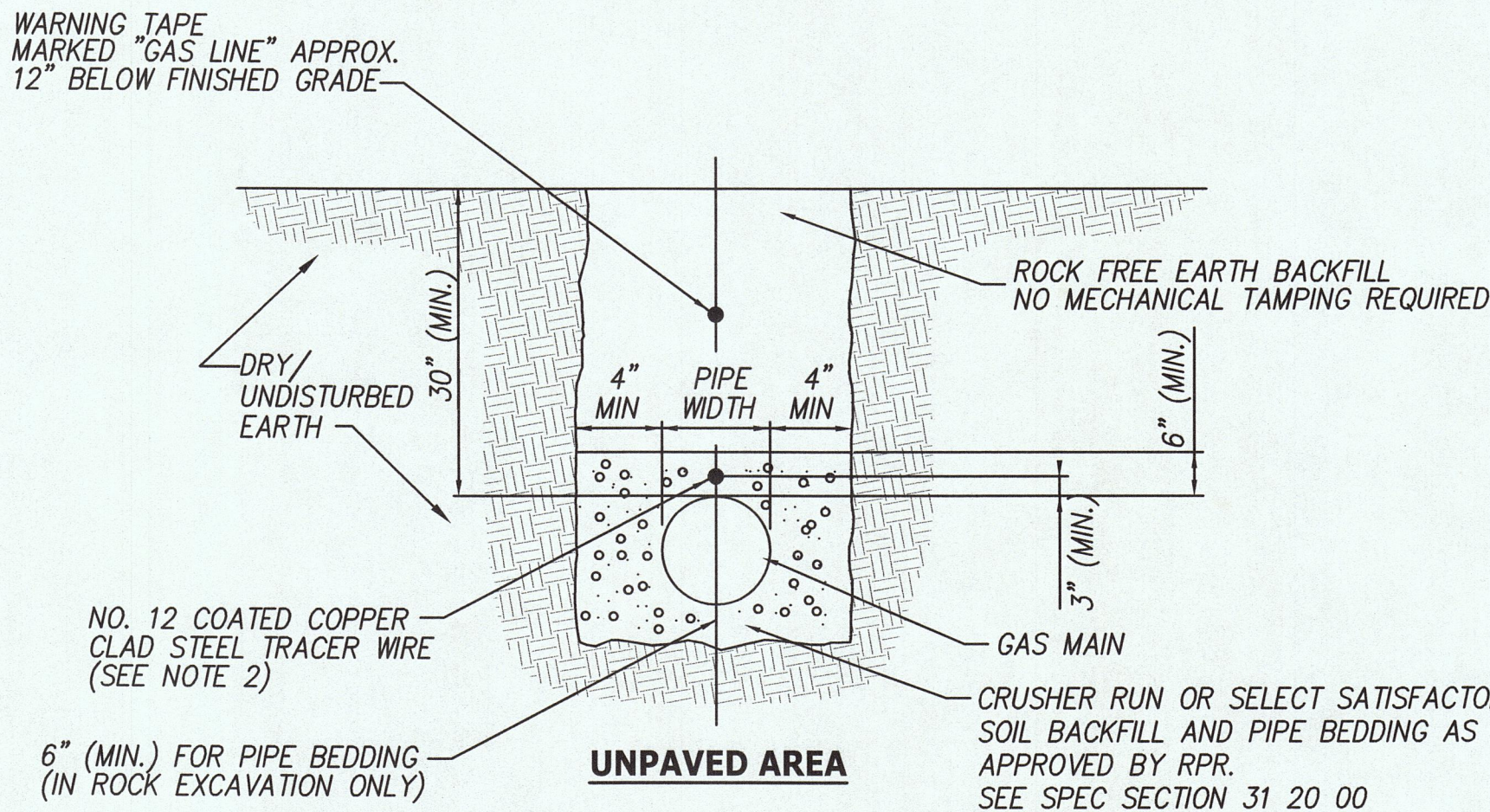
NOTES:

- EDGE TO BE SAWED WITH A CONCRETE SAW TO A NEAT SQUARED EDGE. ALL PATCHES SHALL BE SQUARE OR RECTANGULAR PARALLEL TO CURB. CUTS SHALL BE BROOM-SWEPT CLEAN OF DUST BEFORE TACK COAT IS APPLIED.
- EDGES TO BE TACKED WITH EMULSIFIED ASPHALT TACK CRS-I OR CRS-II.
- CUTTING AND REPAIRING EXISTING PAVEMENT CONCRETE OR GRAVEL SHALL BE IN ACCORDANCE WITH OWNER'S REQUIREMENTS
- BACKFILL AND BEDDING MATERIAL SHALL BE COMPACTED IN 6" LIFTS WITH JUMPING JACK COMPACTOR TO 95% DENSITY PRIOR TO PLACING SUCCEEDING LIFTS.
- MINIMUM TRENCH WIDTH SHALL BE 12" EACH SIDE OF PIPE IN ROCK EXCAVATION.
- WIRE CONNECTOR: DRY CONN® DRY BURY LUG YELLOW OR PRE-APPROVED EQUAL.
- ALLEY AND DRIVEWAY PATCHING SHALL CONSIST OF 2" DEPTH SURFACE COURSE ONLY ON AGGREGATE BASE. NO BASE COURSE

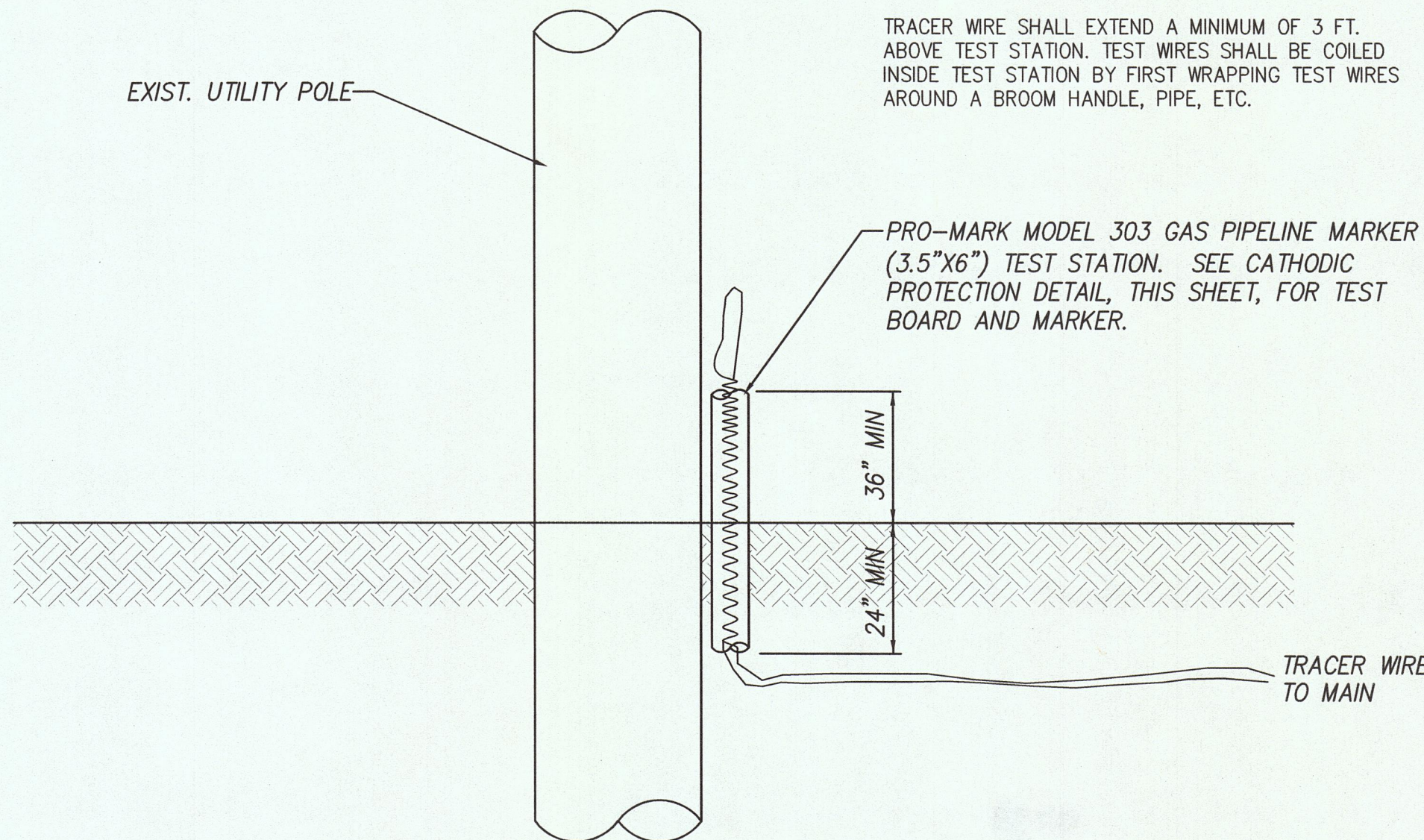


NOTES:

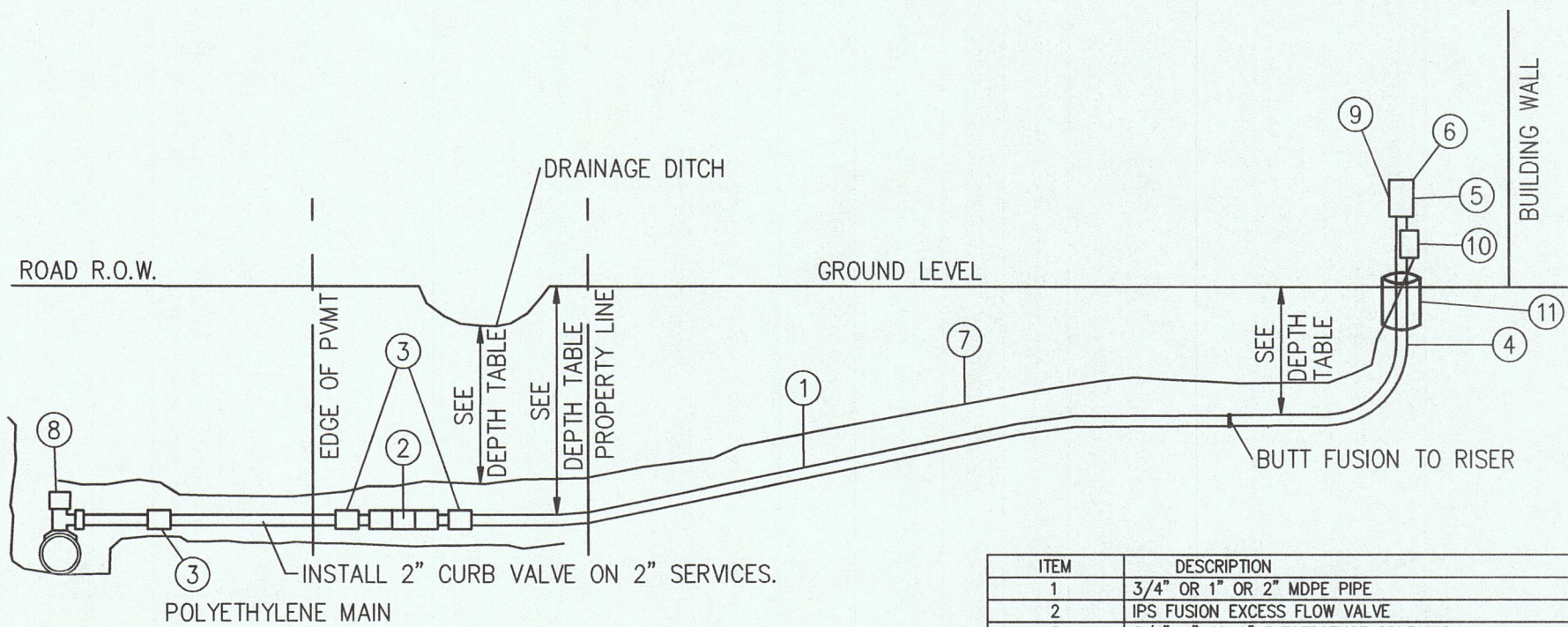
- MINIMUM TRENCH WIDTH SHALL BE 12" EACH SIDE OF PIPE IN ROCK EXCAVATION.
- WIRE CONNECTOR: DRY CONN® DRY BURY LUG YELLOW OR PRE-APPROVED EQUAL.



EXIST. UTILITY POLE



TRACER WIRE STATION DETAIL
N.T.S.



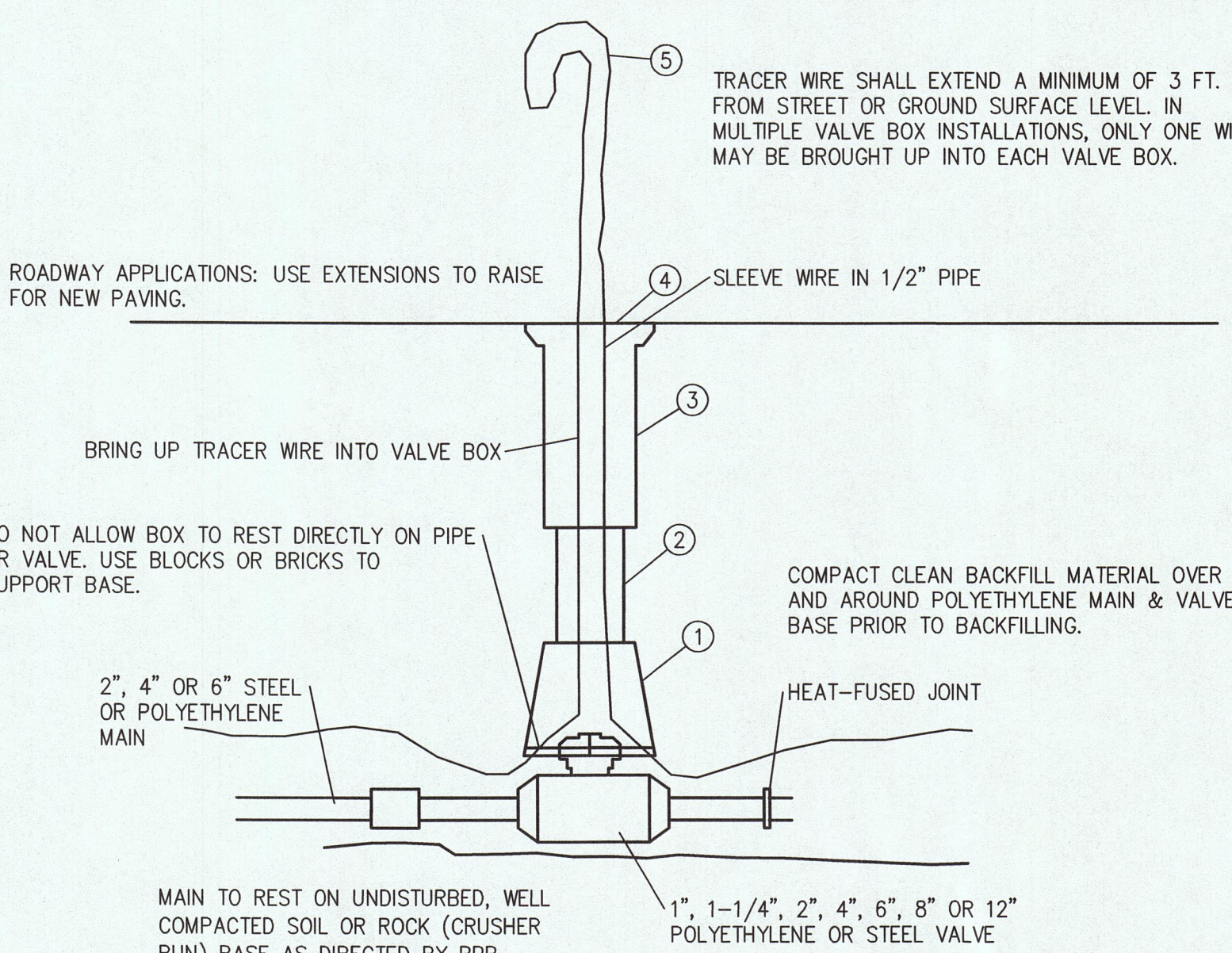
NOTES:

- COMPACT SIDEFILLS AROUND AND UNDER SERVICE CONNECTION.
- TEST COMPLETE SERVICE LINE PRIOR TO TAPPING MAIN.
- EFV TO BE INSTALLED OUTSIDE OF ASPHALT, CONCRETE PAVEMENT, CURB & GUTTER, ETC. BUT AS CLOSE AS PRACTICAL TO MAIN.
- SERVICE LINE TRACER WIRE SHALL BE CONNECTED TO MAIN LINE TRACER WIRE TO ENSURE CONTINUITY OF SERVICE.
- WIRE CONNECTOR: DRY CONN® DRY BURY LUG YELLOW, WC-10 RED LOW VOLTAGE BY WADE CONNECTORS OR PRE-APPROVED EQUAL.
- INSTALL NEW RISER & CUTOFF VALVE TIE-INTO EX. METER.
- INSTALL 2 INCH PE CURB VALVE ON 2 INCH SERVICES BETWEEN MAIN AND EFV.
- INSTALL WARNING TAPE ON SERVICE LINES INSTALLED BY OPEN CUT.
- VERIFY DIAMETER OF SERVICES PRIOR TO ORDERING MATERIALS.

SERVICE CONNECTION 3/4", 1" OR 2"
N.T.S.

ITEM	DESCRIPTION
1	3/4" OR 1" OR 2" MDPE PIPE
2	IPS FUSION EXCESS FLOW VALVE
3	3/4", 1" OR 2" ELECTROFUSE COUPLING
4	ANODELESS SERVICE RISER W/ BYPASS 3/4", 1" OR 2"
5	1-1/4", 3/4", 1" OR 2" METER VALVE
6	1-1/4", 3/4", 1" OR 2" PLUG
7	#12 COATED COPPER CLAD STEEL TRACER WIRE W/ WARNING TAPE
8	APPROPRIATELY SIZED IPS SERVICE SADDLE
9	METER VALVE LOCK
10	TRACER WIRE CLAMP FOR 3/4", 1" OR 2" SERVICE RISER
11	2" X 6" OR 4" X 6" MDPE CASING PIPE (YELLOW)

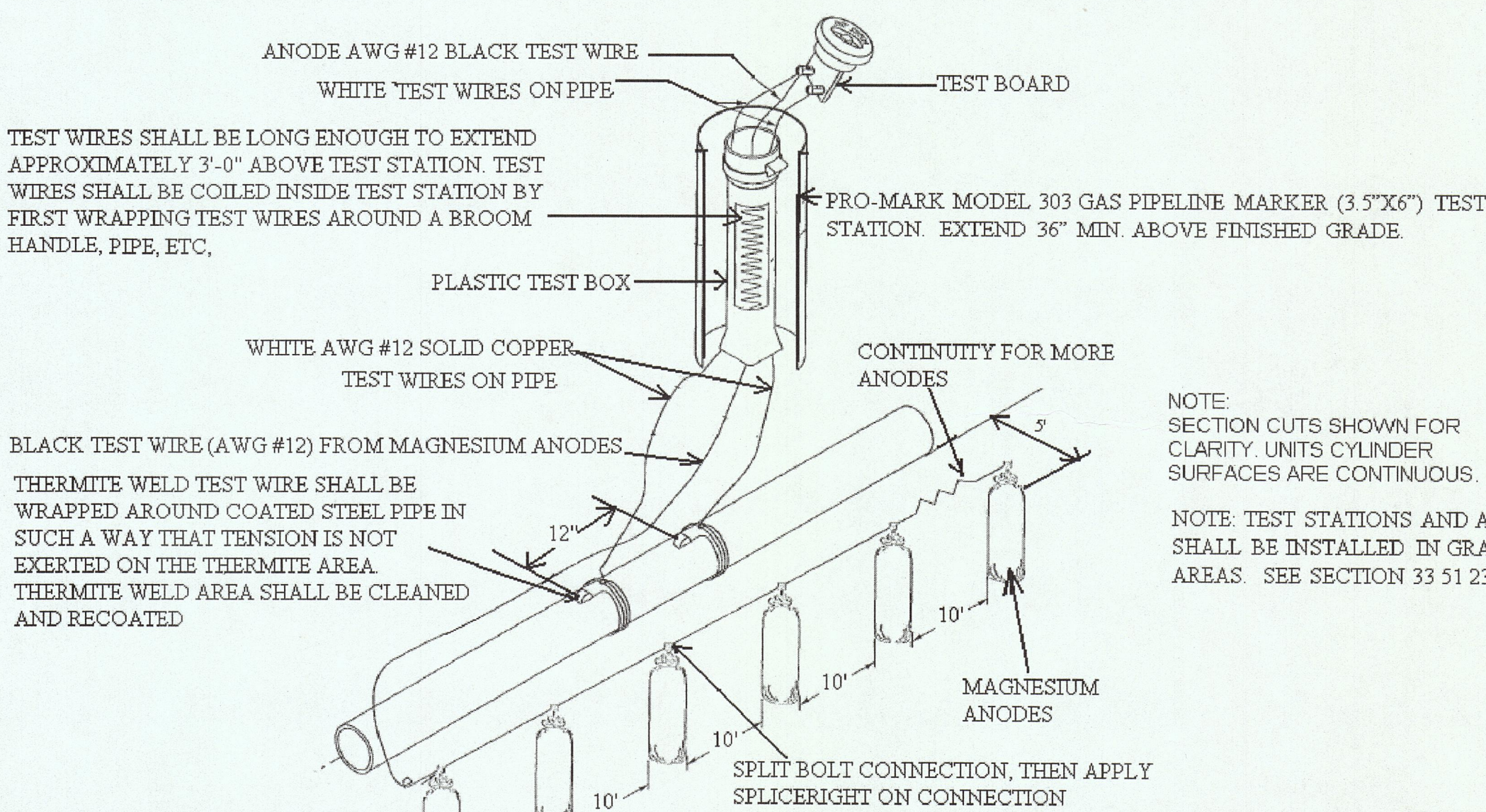
	R.O.W.
STANDARD DEPTH	36"
MINIMUM DEPTH	28"
MAXIMUM DEPTH	48"



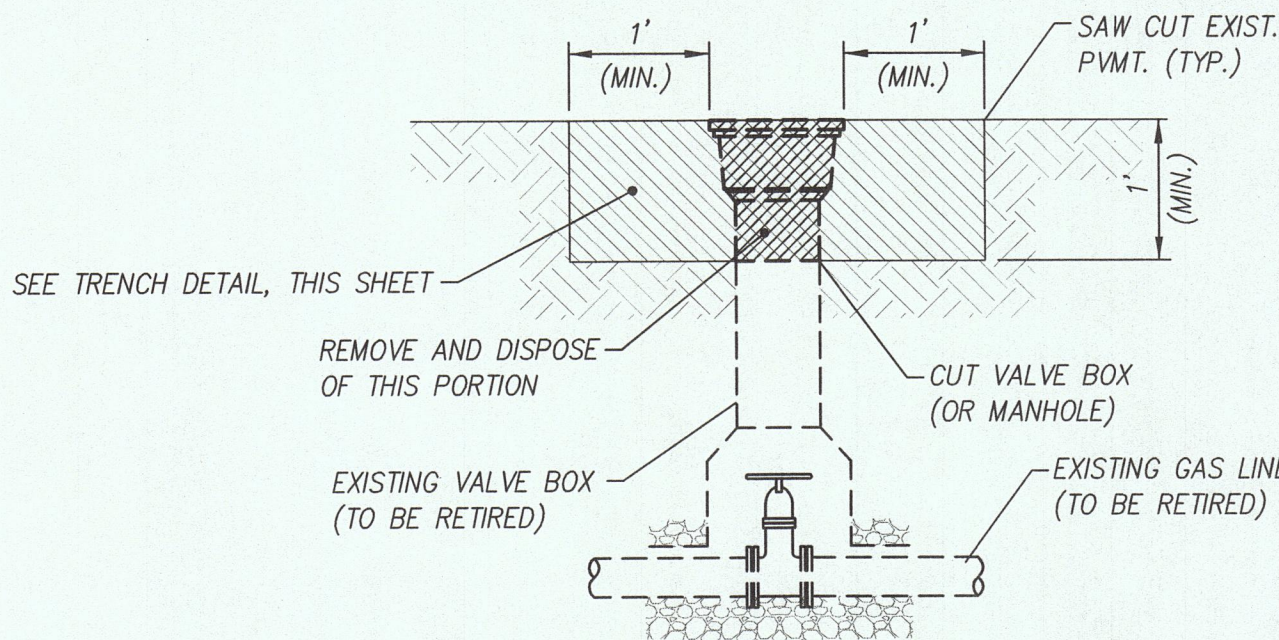
TYPICAL VALVE SETTING
N.T.S.

ITEM	QUANTITY	DESCRIPTION
1	1	VALVE BOX BASE SECTION
2	1	VALVE BOX MIDDLE SECTION
3	1	VALVE BOX TOP SECTION
4	1	VALVE BOX LID
5	1-Lot	#12 COATED COPPER CLAD STEEL TRACER WIRE
6	1-Lot	BRICKS TO SUPPORT VALVE BOX (NOT SHOWN)

- DO NOT ALLOW VALVE JACKET TO REST DIRECTLY ON PIPE. USE BLOCKS TO SUPPORT BASE.



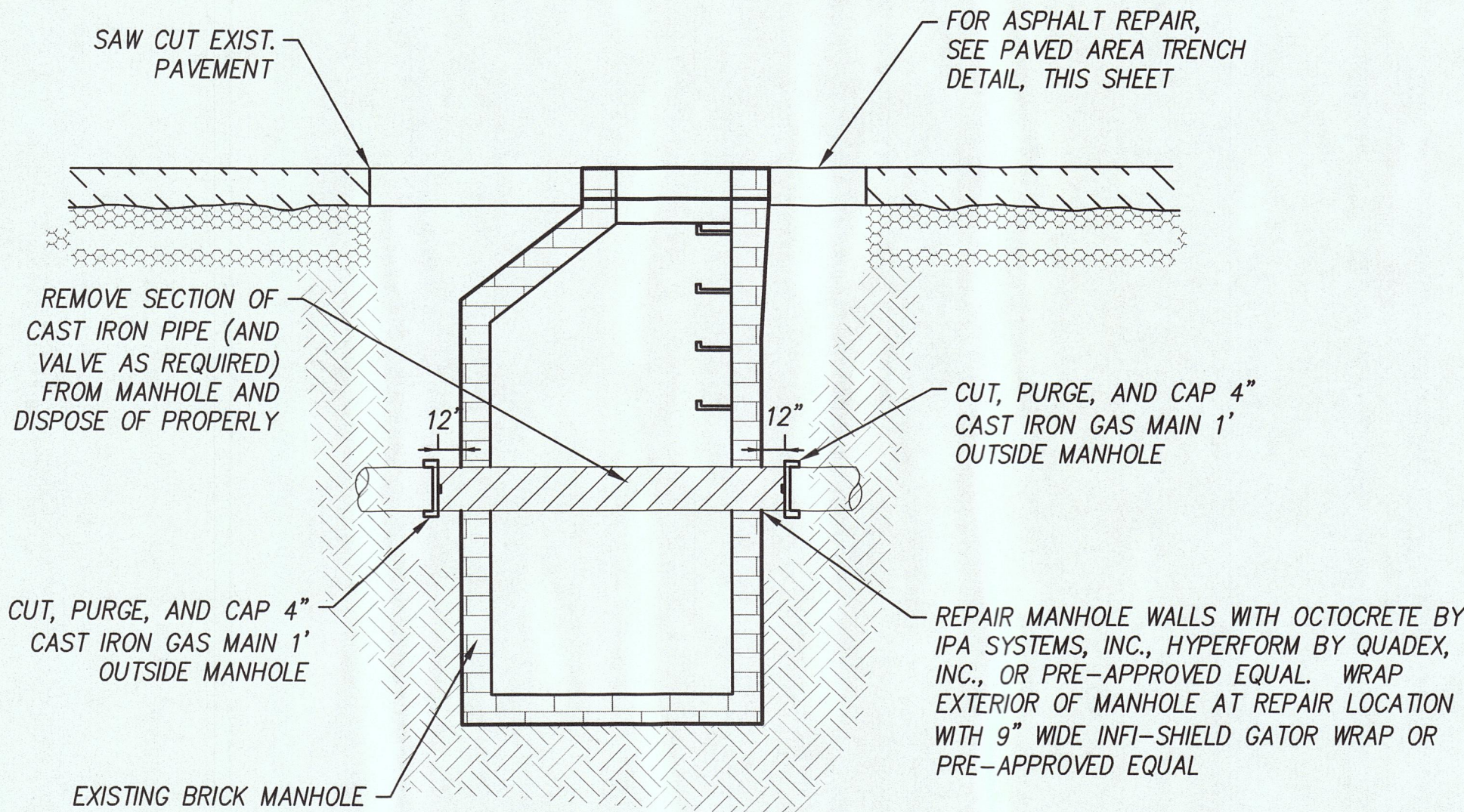
CATHODIC PROTECTION TEST STATION & ANODE INSTALLATION
N.T.S.



NOTES:

- AFTER EXISTING GAS LINE(S) HAVE BEEN RETIRED, SAW CUT EXISTING PAVEMENT A MINIMUM OF 1 FOOT BEYOND THE OUTSIDE EDGE OF VALVE TO A MINIMUM DEPTH OF 1 FOOT.
- CUT VALVE BOX AT 1 FOOT BELOW GRADE, REMOVE TOP PORTION, AND DISPOSE OF REMOVED MATERIAL PROPERLY. CONTRACTOR MAY REMOVE ENTIRE TOP SECTION OF VALVE BOX (OR MANHOLE) WITHOUT CUTTING IF APPROPRIATE, AT NO ADDITIONAL COST TO OWNER.
- PROVIDE CRUSHER RUN FOR LEVELING COURSE TO 1 FOOT BELOW GRADE.

TYPICAL VALVE BOX RETIREMENT DETAIL
N.T.S.



GAS LINE REMOVAL FROM SEWER MANHOLE DETAIL
N.T.S.

REVISIONS		DATE	
CANNON & CANNON INC CONSULTING ENGINEERS - FIELD SURVEYORS TEL: 865.670.8555 8560 Kingston Pike WWW.CANNON-CANNON.COM Knoxville, TN 37919			
CLIENT:		HARRIMAN UTILITY BOARD 300 NORTH ROANE STREET HARRIMAN, TN 37748 (865) 882-3242	
PROJECT:		CAST IRON GAS MAIN REPLACEMENT PHASE III & IV HARRIMAN, TN	
GAS DETAILS			
PRELIMINARY FOR REVIEW ONLY	CCI PROJECT NO.	00923-0010	
	DRAWING DATE	MAY 22, 2018	
	PM WWL	QC SAF	
	DRAWN WBW	PIC WHC	
		G2.01	