

HARRIMAN UTILITY BOARD

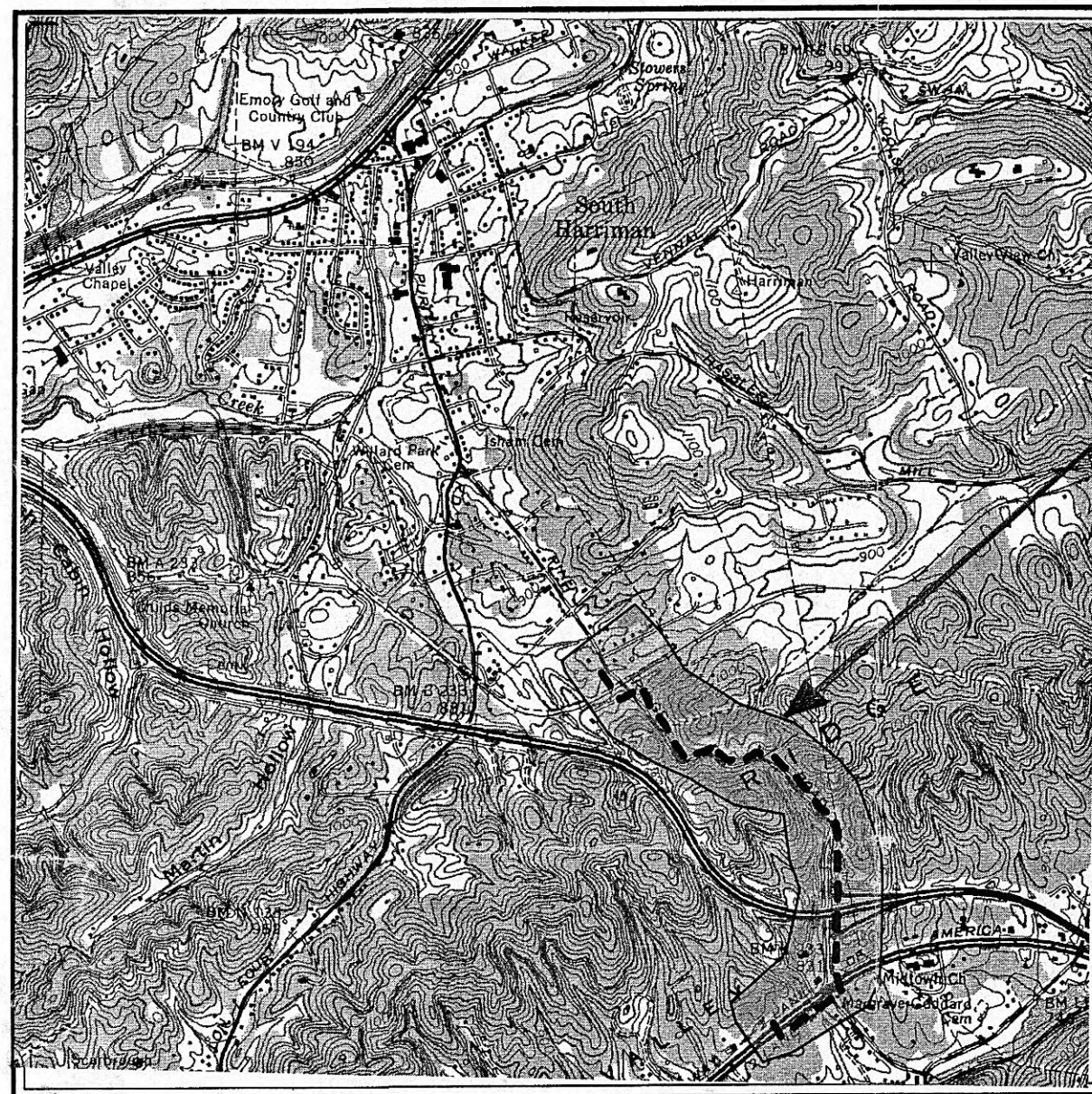
Roane County, Tennessee

NATURAL GAS PIPELINE

CONTRACT 104

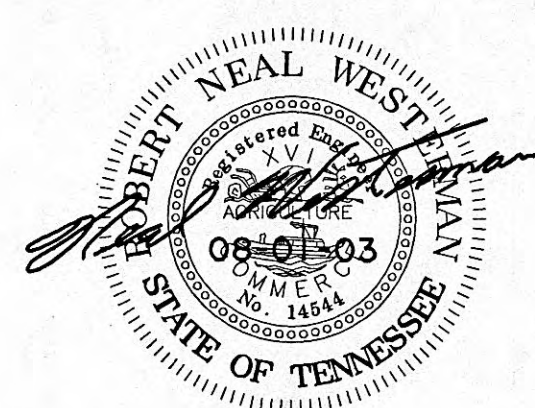
2004

LOCATION MAP



PROJECT LOCATION

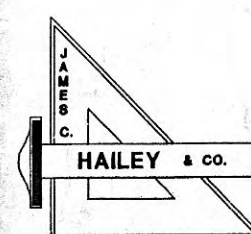
Project Engineer



SHEET INDEX

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SET NUMBER



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

JCH PROJECT NO. 03225

HARRIMAN - GAS PIPELINE



- NOTES:
1. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF NORFOLK SOUTHERN NSCE-8 SPECIFICATIONS.
 2. PIPE LINE AND CROSSING TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH LAST APPROVED AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION SPECIFICATIONS FOR PIPELINES CONVEYING FLAMMABLE AND NON-FLAMMABLE SUBSTANCES.
 3. BLASTING NOT PERMITTED.

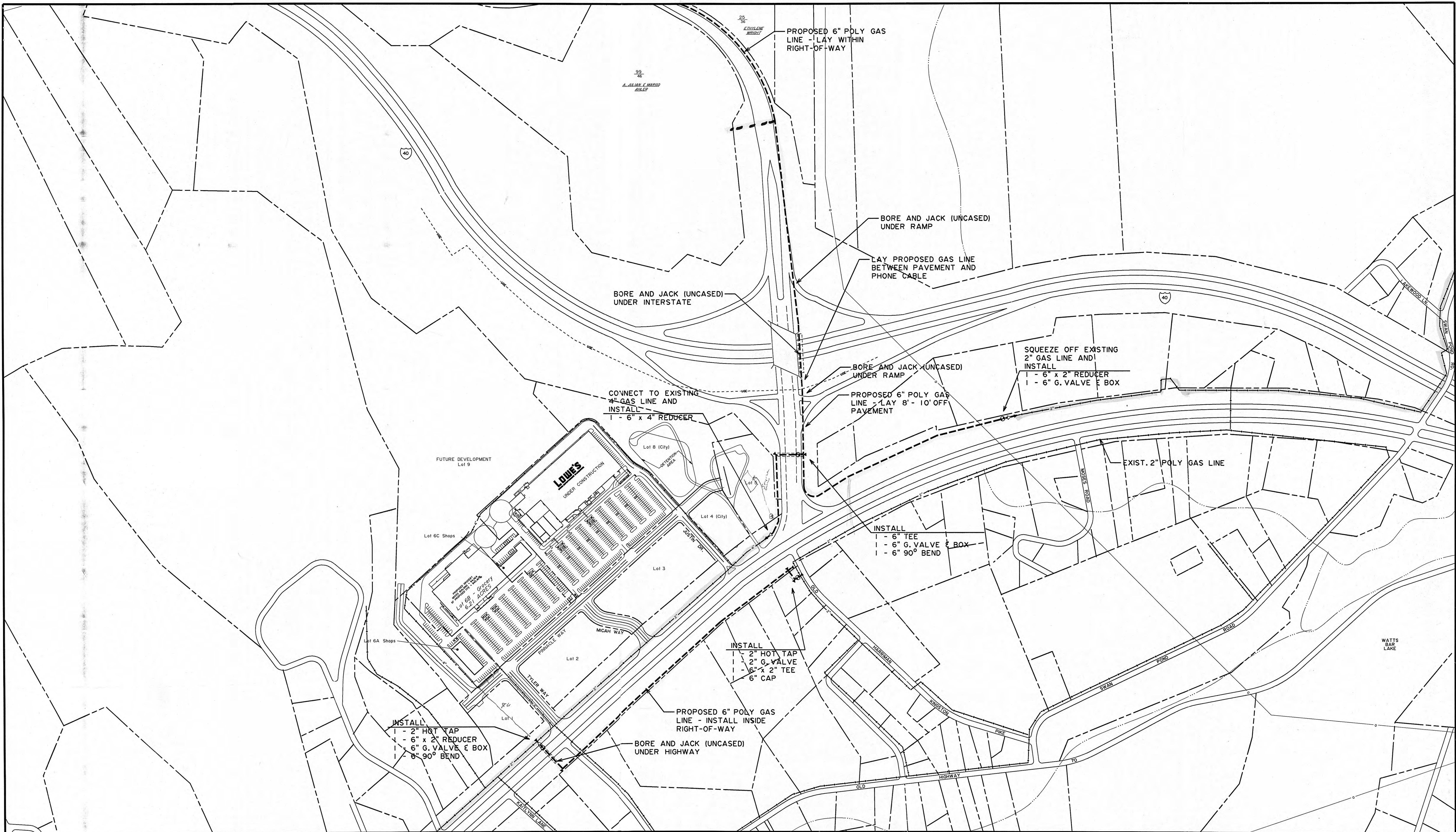
2

SEPT NEAL WEST
REGISTERED PROFESSIONAL ENGINEER
No. 144
STATE OF TENNESSEE

HAILEY & CO.

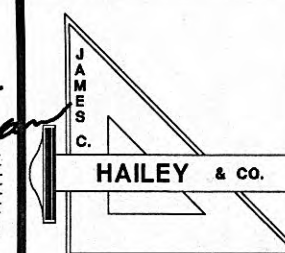
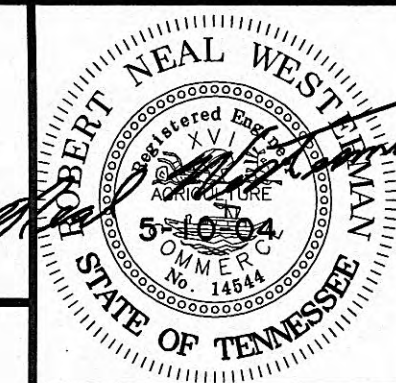
CITY OF HARRIMAN Roane County, Tennessee		GAS LINE ADDITIONS		SHEET 1
DESIGN RNW	DRAWN LLB	CHECKED RNW	DATE APR. 2004	SCALE 1" = 200'
PROJECT NO. 03225			36 SE	

SHEET 1 OF 3



\\p0001\Tee Map.dwg

1	2
3	4



CITY OF HARRIMAN
Roane County, Tennessee

GAS LINE ADDITIONS

DESIGN RNW	DRAWN LLB	CHECKED RNW	DATE APR. 2004	SCALE 1" = 200'	PROJECT NO. 03225
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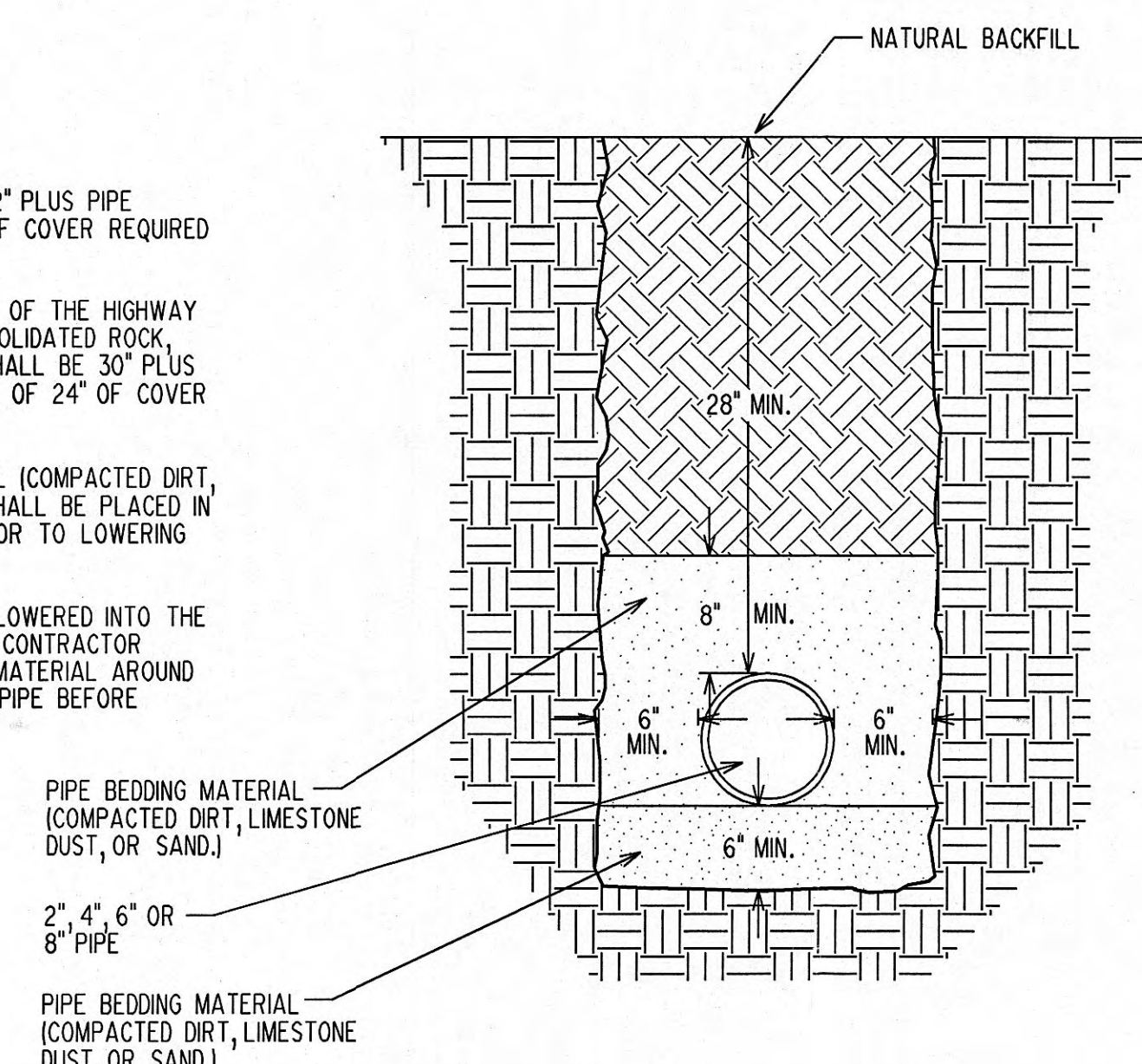
SHEET

2

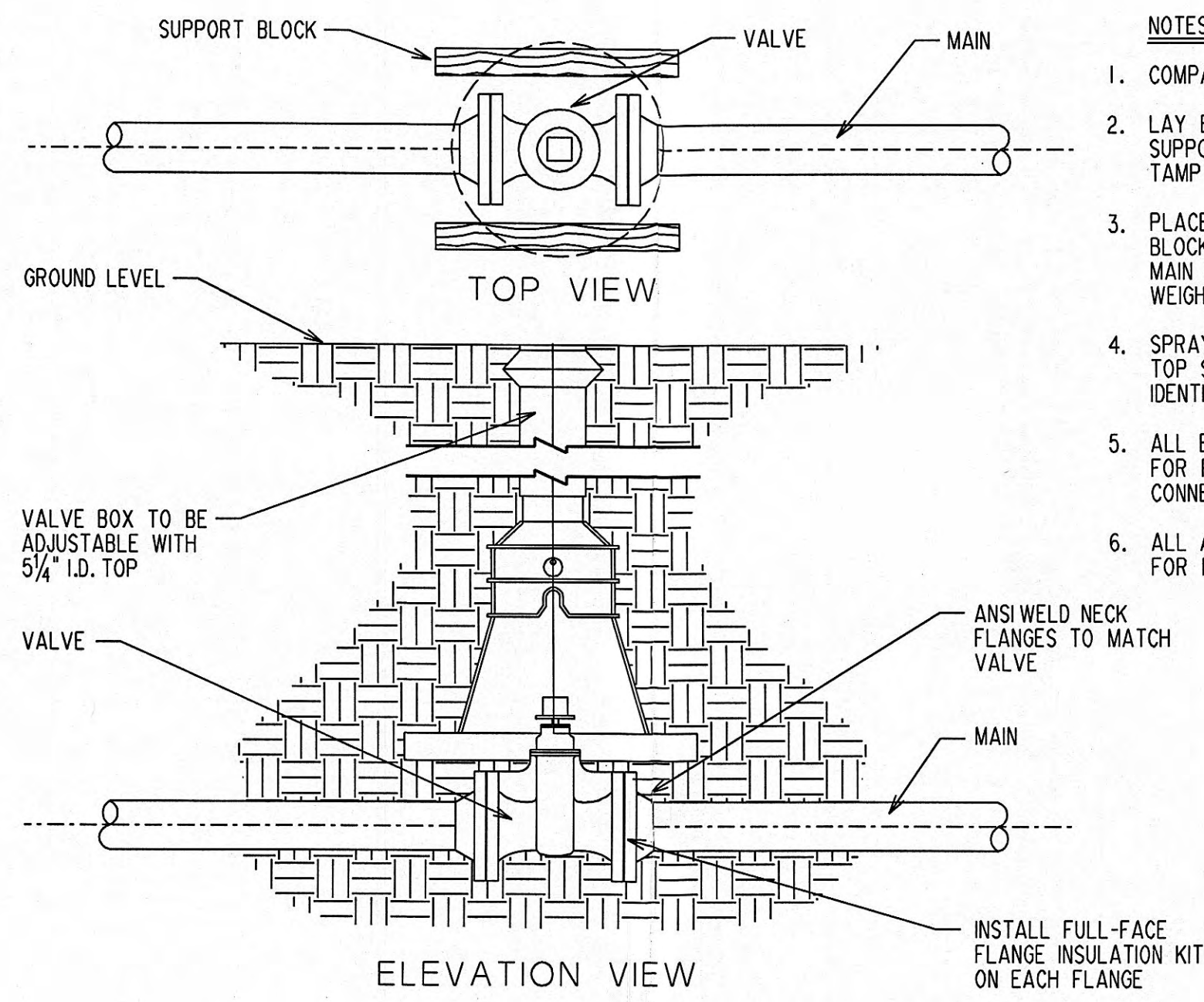
46 NE

SHEET 2 OF 2

- NOTES:
1. MINIMUM DEPTH SHALL BE 42" PLUS PIPE DIAMETER. MINIMUM OF 36" OF COVER REQUIRED OVER PIPE.
 2. IF TRENCH IS WITHIN 7 FEET OF THE HIGHWAY RIGHT-OF-WAY AND IN CONSOLIDATED ROCK, THEN THE MINIMUM DEPTH SHALL BE 30" PLUS THE PIPE DIAMETER. MINIMUM OF 24" OF COVER REQUIRED OVER PIPE.
 3. 6" OF PIPE BEDDING MATERIAL (COMPACTED DIRT, LIMESTONE DUST, OR SAND) SHALL BE PLACED IN TRENCH AND COMPACTED PRIOR TO LOWERING THE PIPE INTO THE TRENCH.
 4. AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH AND INSPECTED, THE CONTRACTOR SHALL PLACE PIPE BEDDING MATERIAL AROUND THE PIPE AND 8" OVER THE PIPE BEFORE BACKFILLING THE TRENCH.

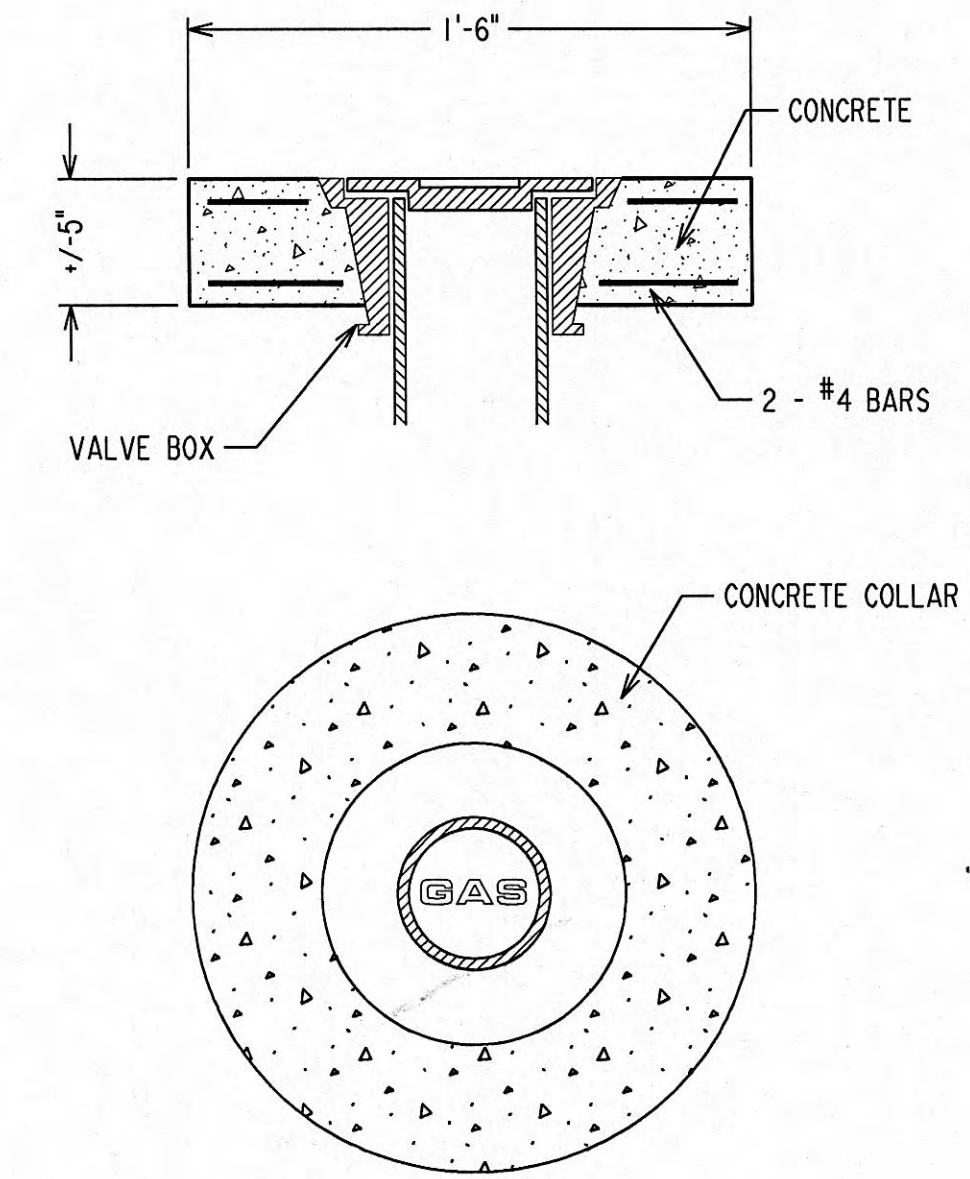


TRENCH DETAIL
NO SCALE

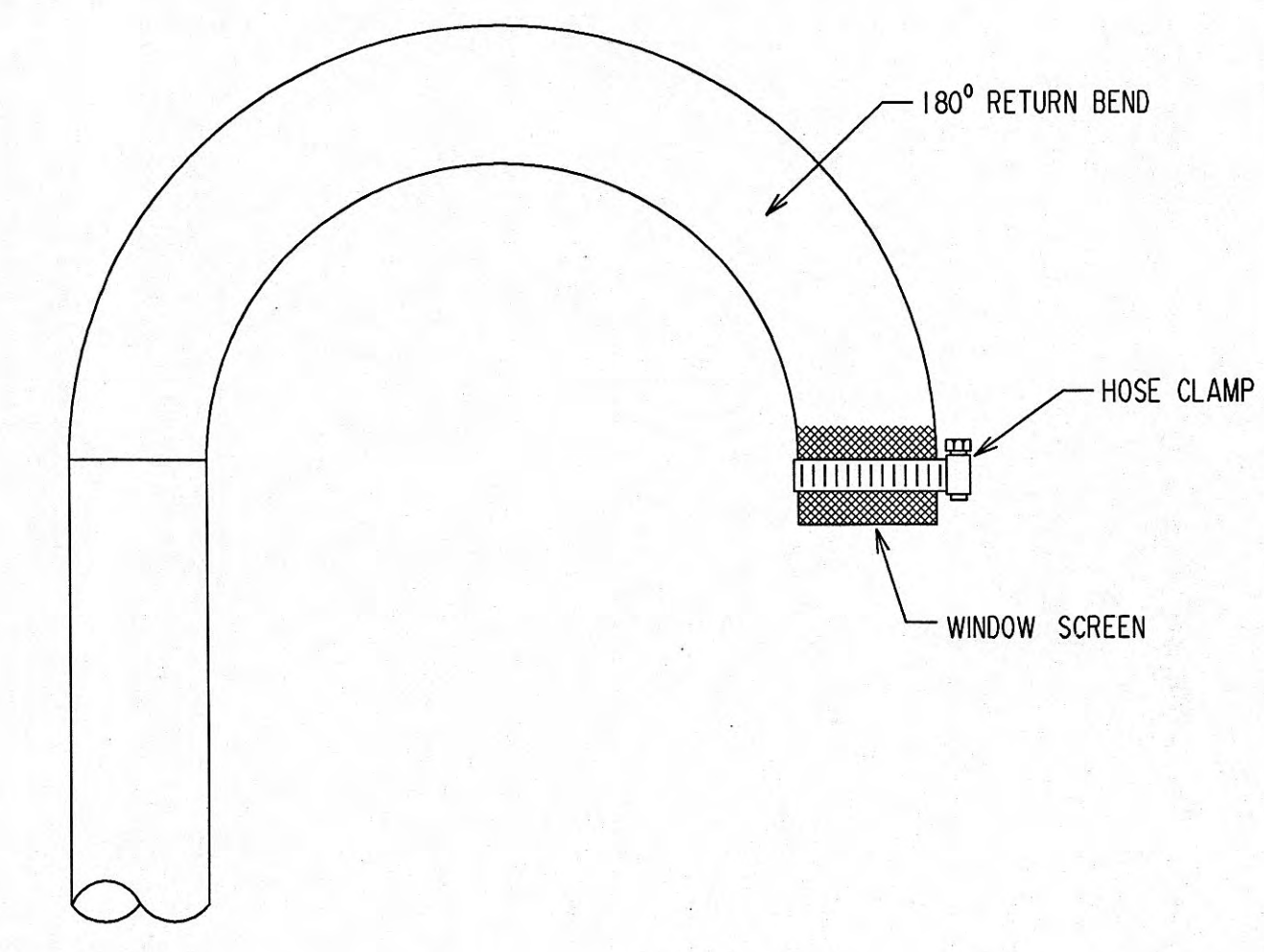


VALVE & VALVE BOX DETAILS
NO SCALE

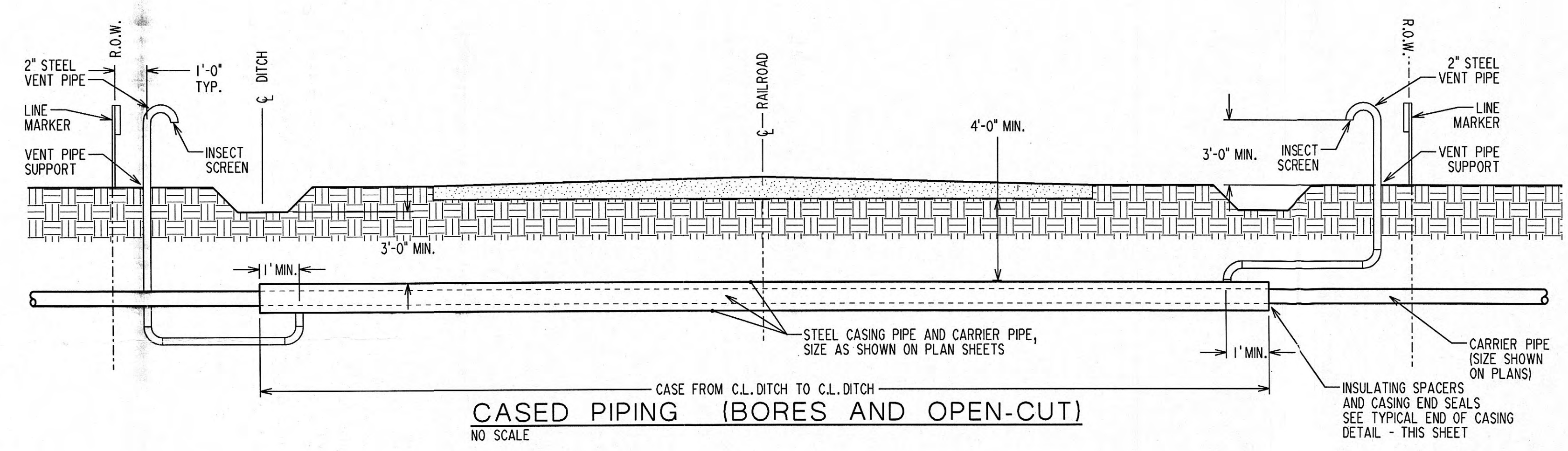
- NOTES:
1. COMPACT FILL
 2. LAY BRICKS OR CREOSOTE WOODEN SUPPORT BLOCKS ASTRIDE VALVE, TAMP INTO PLACE.
 3. PLACE VALVE BOX BASE ON SUPPORT BLOCKS TAKING CARE NOT TO CONTACT MAIN OR VALVE. ENSURE THAT THE ENTIRE WEIGHT OF BOX IS BORN BY SUPPORT BLOCKS.
 4. SPRAY INSIDE OF VALVE BOX COVER AND TOP SECTION WITH WHITE PAINT FOR IDENTIFICATION. TOP TO BE MARKED "GAS"
 5. ALL BELOW GROUND VALVES SHALL BE FITTED FOR FLANGE-TO-FLANGE OR WELD-TO-WELD CONNECTIONS.
 6. ALL ABOVE GROUND VALVES SHALL BE FITTED FOR FLANGE-TO-FLANGE CONNECTIONS.



VALVE BOX DETAILS
NO SCALE

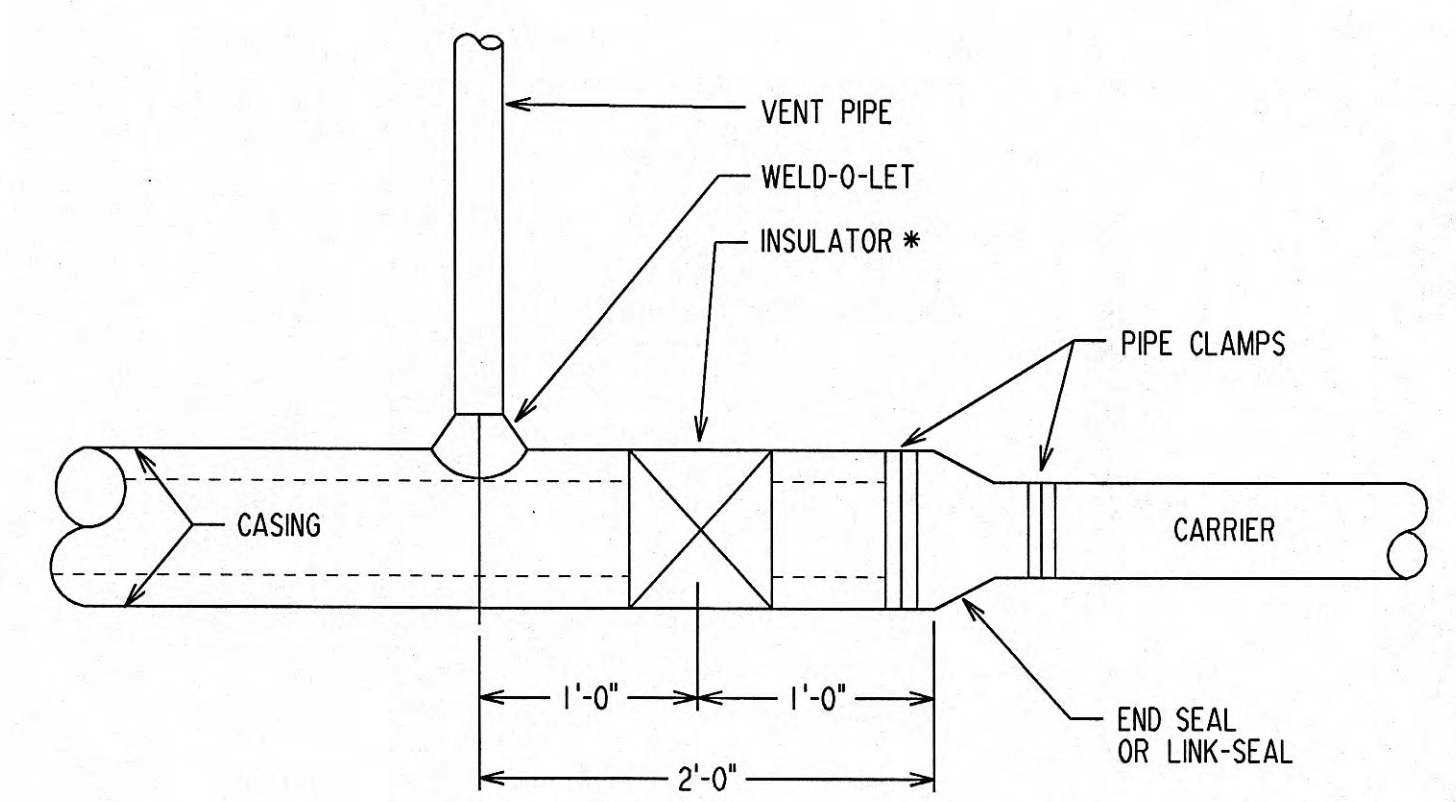


VENT PIPE & SCREEN DETAIL
NO SCALE



CASED PIPING (BORES AND OPEN-CUT)
NO SCALE

- NOTES:
1. FOR MAGNESIUM ANODE INSTALLATION - SEE DETAIL ON THIS SHEET.
 2. WHERE CURB & GUTTER ARE ENCOUNTERED, EXTEND CASING 1' BEHIND CURB (MINIMUM).
 3. FOR VENT PIPES, SEE VENT PIPE AND SCREEN DETAIL ON THIS SHEET.
 4. PORTIONS OF CASED BORES MAY BE OPEN-CUT, SEE PLAN SHEETS FOR FOOTAGES.
 5. MINIMUM DEPTH OF COVER OVER CASING PIPE = 36" AT LOWEST SECTION OF ROADWAY CROSS SECTION



* INSTALL 1 INSULATOR EVERY 10' - 12' BETWEEN ALL CARRIER PIPES AND CASING PIPES.

SEE TYPICAL MAGNESIUM ANODE INSTALLATION AND VENT PIPE WITH SCREEN DETAIL

TYPICAL END OF CASING
NO SCALE