

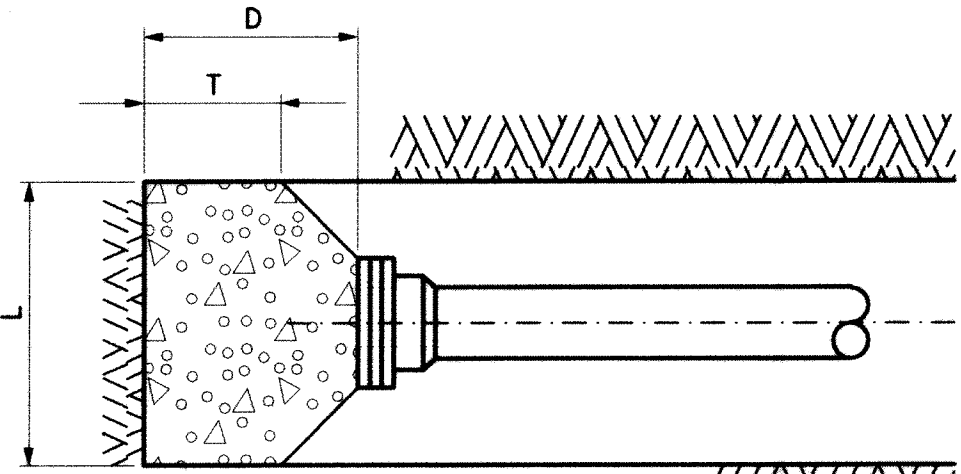
| 90° BEND |     |     |     |     |     |     |     |     |     |     |     |     |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| SIZE     | 2"  | 3"  | 4"  | 6"  | 8"  | 10" | 12" | 16" | 18" | 20" | 24" | 36" |
| D        | 6"  | 8"  | 8"  | 8"  | 10" | 12" | 12" | 12" | 16" | 20" | 20" |     |
| L        | 16" | 20" | 20" | 24" | 27" | 30" | 34" | 48" | 51" | 54" | 70" |     |
| W        | 8"  | 10" | 10" | 12" | 16" | 20" | 24" | 28" | 34" | 40" | 44" |     |
| T        | 10" | 12" | 12" | 16" | 18" | 20" | 22" | 36" | 40" | 44" | 50" |     |

| 45° & 22 1/2° BEND |     |     |     |     |     |     |     |     |     |     |     |     |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| SIZE               | 2"  | 3"  | 4"  | 6"  | 8"  | 10" | 12" | 16" | 18" | 20" | 24" | 36" |
| D                  | 6"  | 6"  | 6"  | 6"  | 6"  | 6"  | 6"  | 8"  | 8"  | 16" |     |     |
| L                  | 14" | 18" | 18" | 18" | 20" | 22" | 24" | 34" | 40" | 45" | 52" |     |
| W                  | 8"  | 10" | 10" | 12" | 14" | 16" | 18" | 22" | 25" | 28" | 32" |     |
| T                  | 10" | 12" | 12" | 16" | 16" | 18" | 18" | 28" | 33" | 35" | 44" |     |

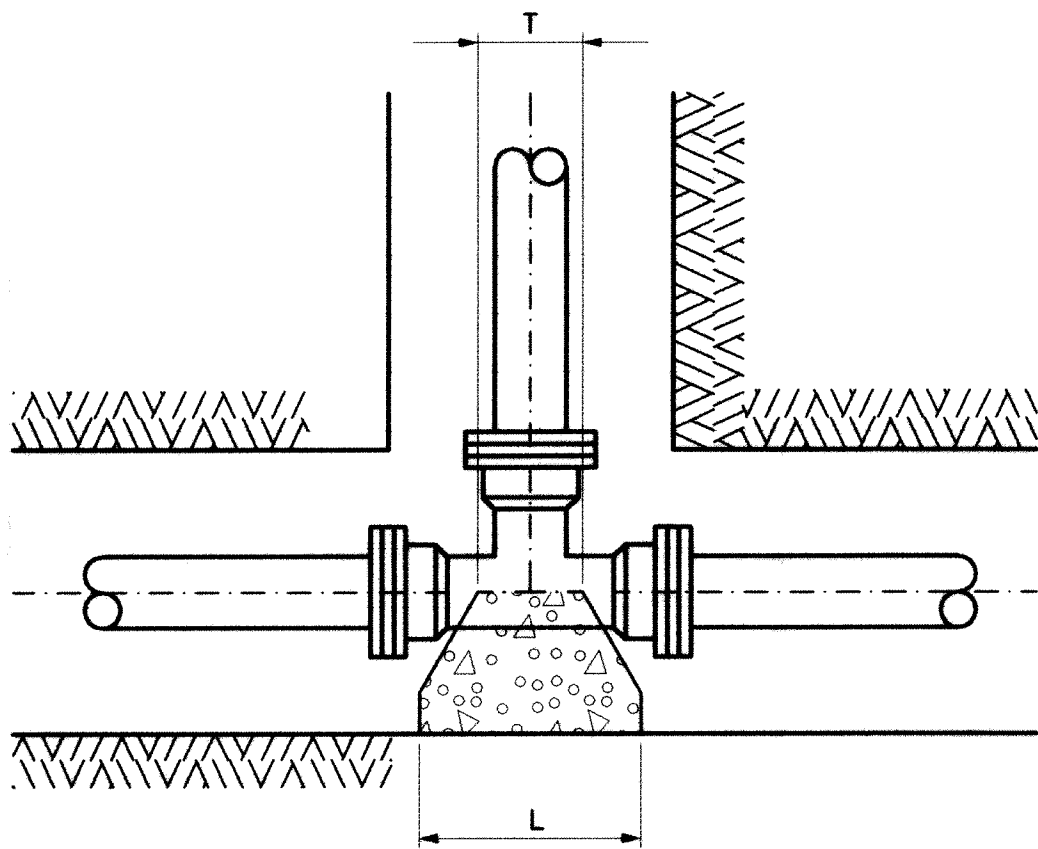
| 11 1/4° BEND |     |     |     |     |     |     |     |     |     |     |     |     |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| SIZE         | 2"  | 3"  | 4"  | 6"  | 8"  | 10" | 12" | 16" | 18" | 20" | 24" | 36" |
| D            | 6"  | 6"  | 6"  | 6"  | 6"  | 6"  | 6"  | 8"  | 16" | 16" |     |     |
| L            | 10" | 12" | 12" | 14" | 16" | 18" | 20" | 30" | 36" | 41" | 48" |     |
| W            | 8"  | 10" | 10" | 12" | 14" | 16" | 18" | 22" | 25" | 28" | 32" |     |
| T            | 8"  | 12" | 12" | 14" | 14" | 16" | 16" | 26" | 31" | 35" | 44" |     |

| TEE  |     |     |     |     |     |     |     |     |     |     |     |     |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| SIZE | 2"  | 3"  | 4"  | 6"  | 8"  | 10" | 12" | 16" | 18" | 20" | 24" | 36" |
| D    | 6"  | 8"  | 8"  | 8"  | 10" | 12" | 12" | 16" | 38" | 38" |     |     |
| L    | 12" | 12" | 12" | 18" | 20" | 24" | 27" | 28" | 30" | 48" | 48" |     |
| W    | 12" | 12" | 12" | 16" | 16" | 20" | 24" | 28" | 34" | 48" | 48" |     |
| T    | 12" | 12" | 12" | 16" | 16" | 16" | 18" | 20" | 22" | 24" | 24" |     |

| PLUG |     |     |     |     |     |     |     |     |     |     |     |     |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| SIZE | 2"  | 3"  | 4"  | 6"  | 8"  | 10" | 12" | 16" | 18" | 20" | 24" | 36" |
| D    | 12" | 16" | 16" | 18" | 24" | 30" | 30" | 30" | 30" | 30" |     |     |
| L    | 12" | 16" | 16" | 18" | 24" | 30" | 30" | 48" | 48" | 48" | 48" |     |
| W    | 14" | 16" | 16" | 18" | 18" | 24" | 24" | 30" | 30" | 48" | 48" |     |
| T    | 10" | 10" | 10" | 12" | 12" | 12" | 12" | 18" | 24" | 24" |     |     |



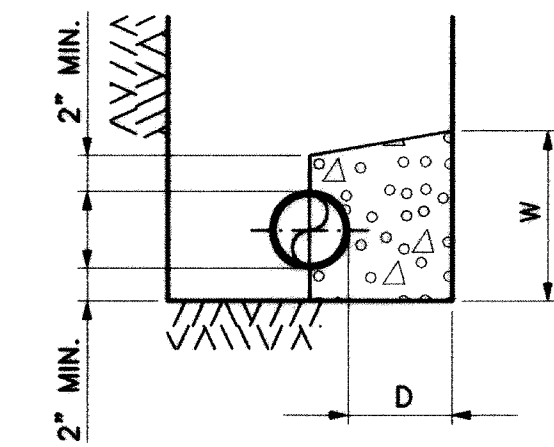
PLUG



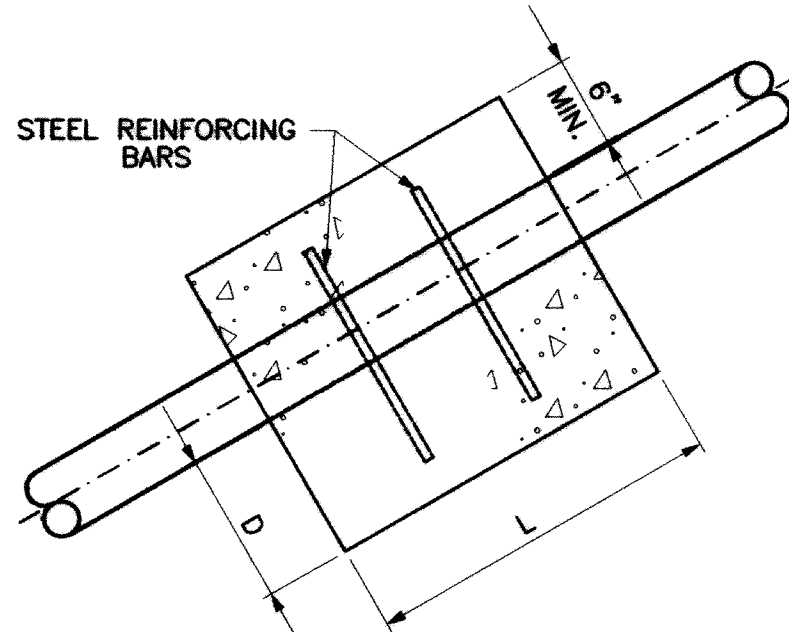
TEE

CONCRETE BLOCKING FOR FITTINGS

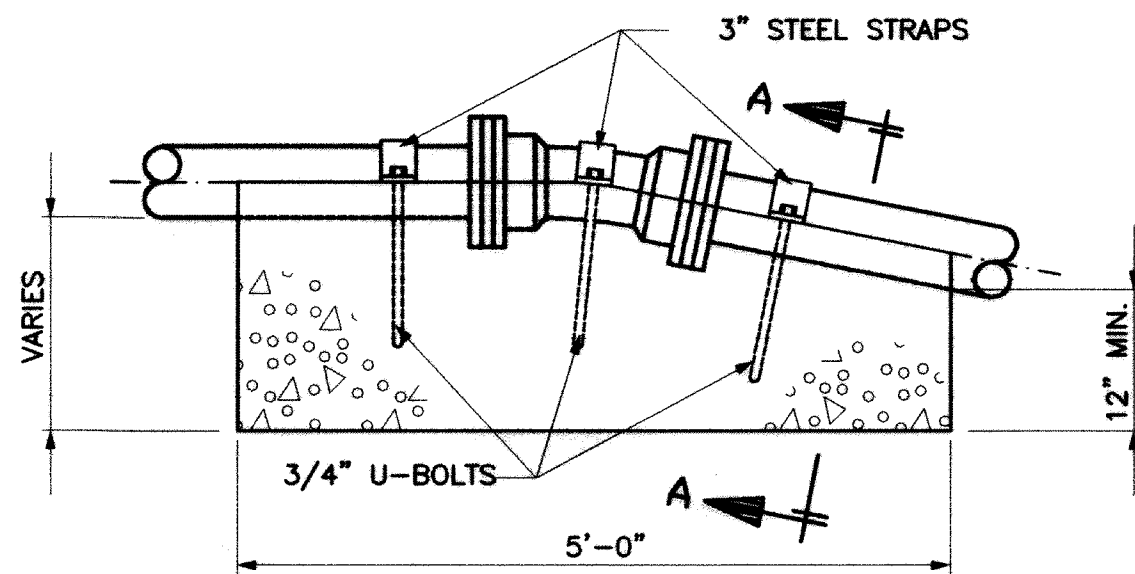
NO SCALE



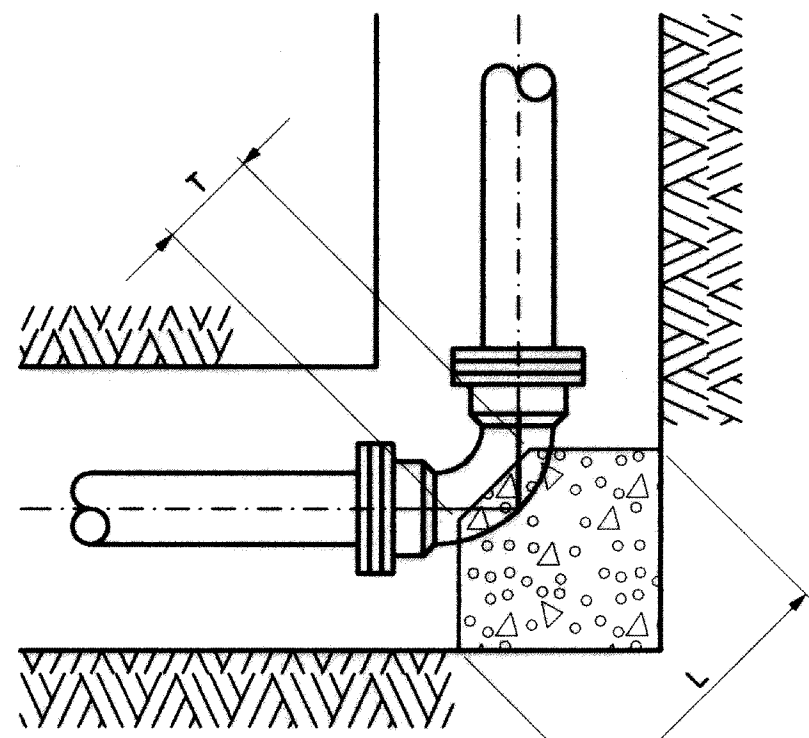
TYPICAL SECTION



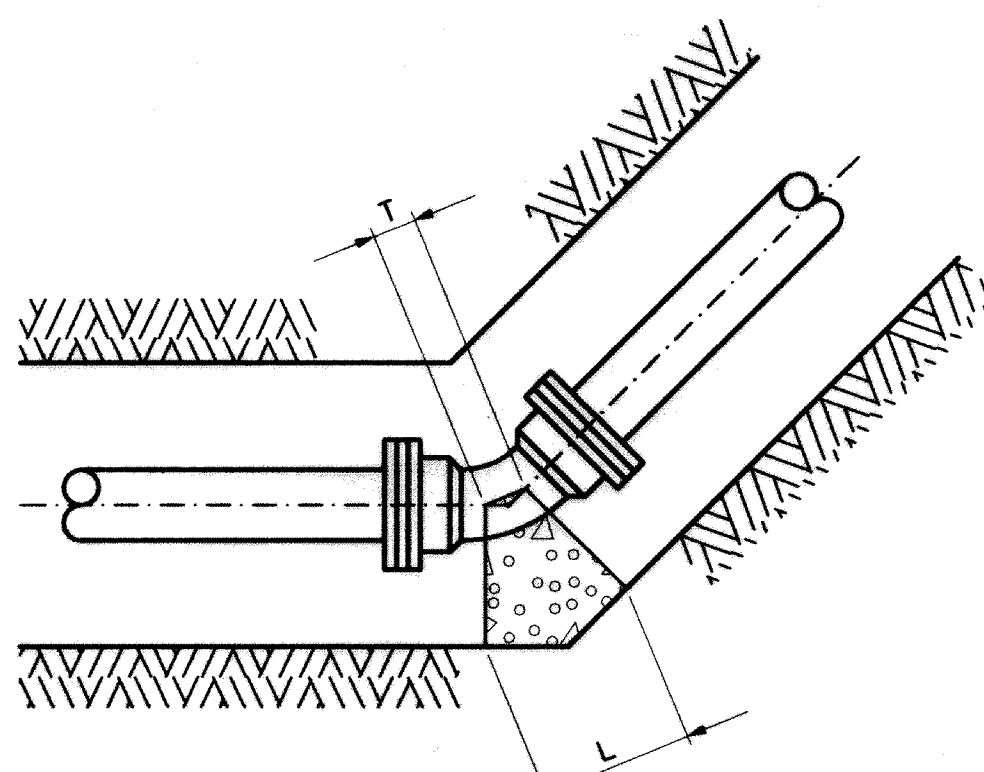
STRAIGHT PIPE ANCHOR



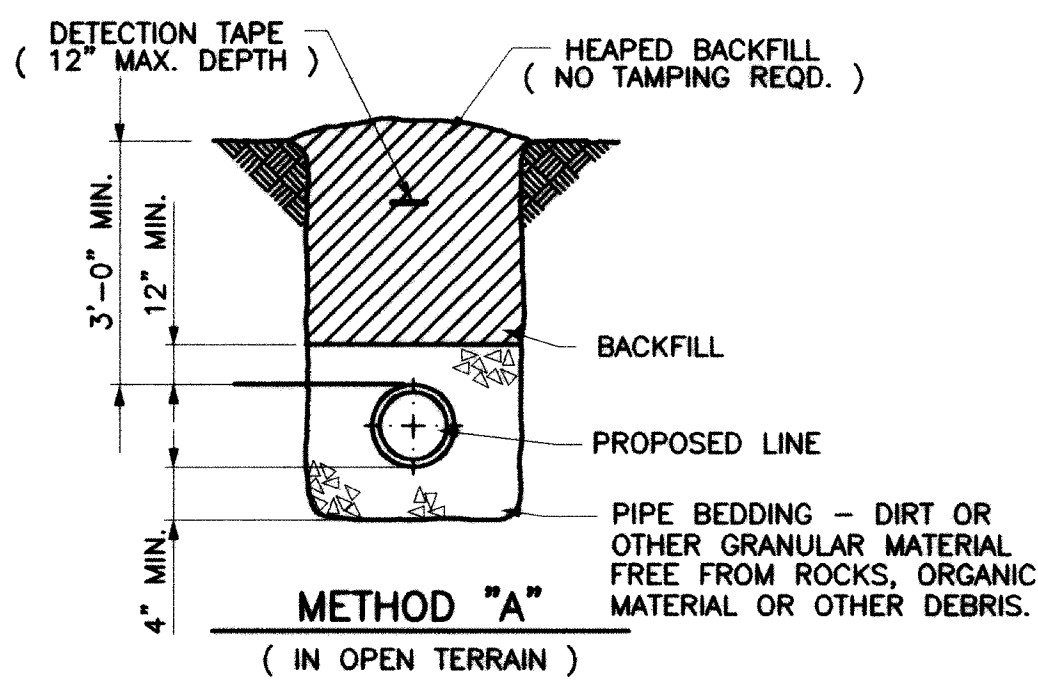
VERTICAL BEND ANCHOR



90° BEND

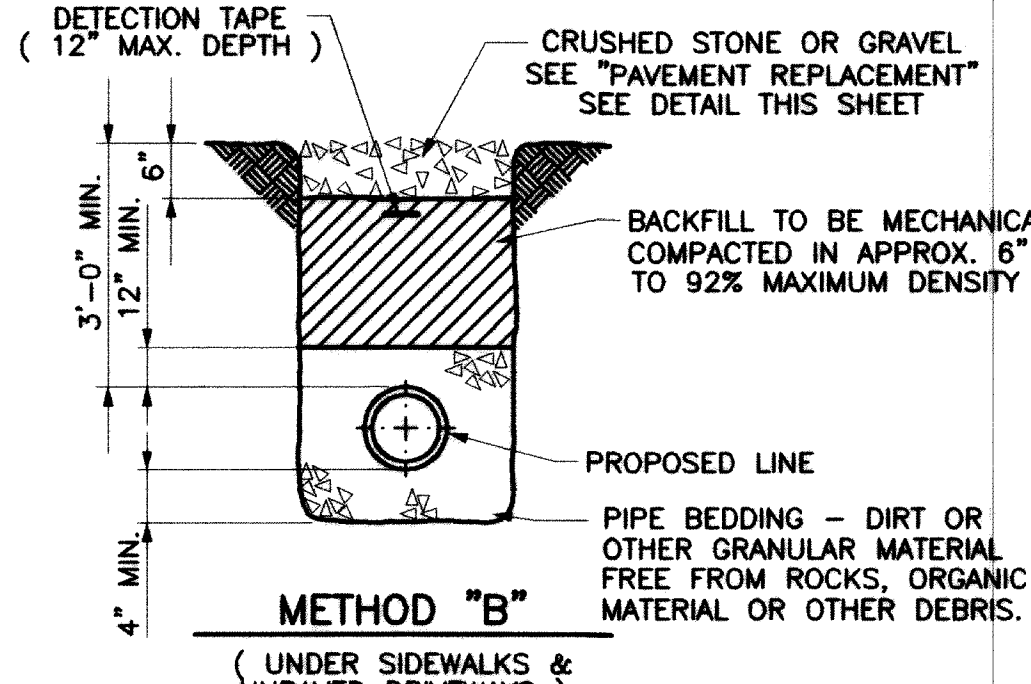


45° & 22° BEND



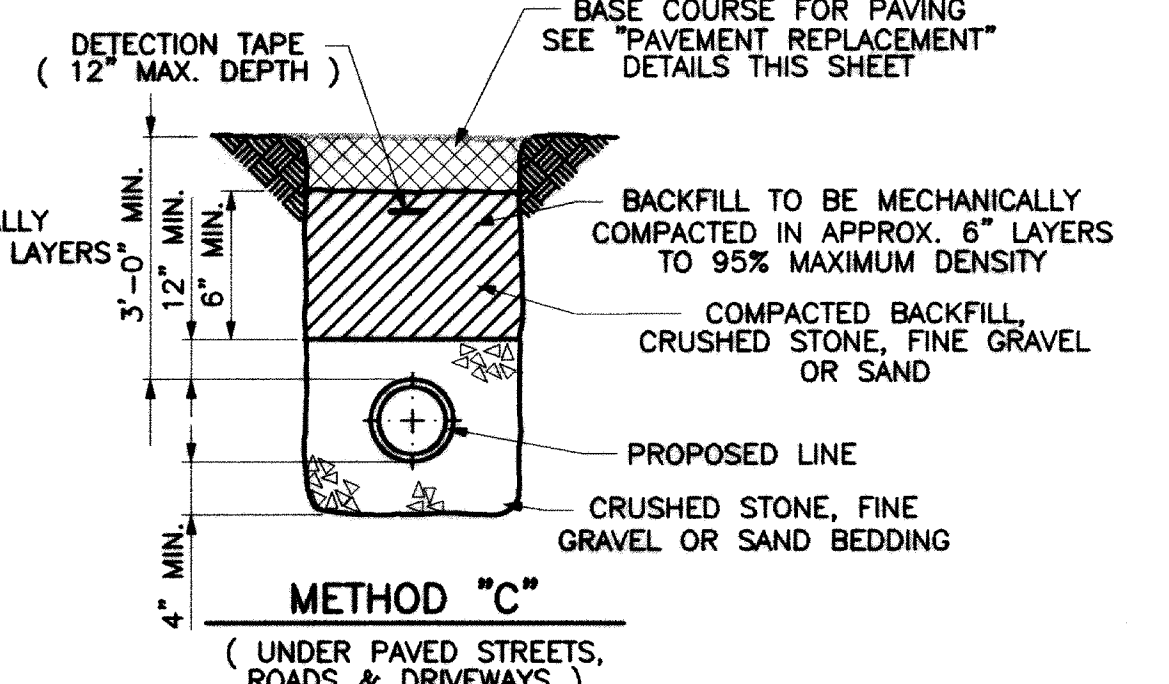
METHOD "A"

( IN OPEN TERRAIN )



METHOD "B"

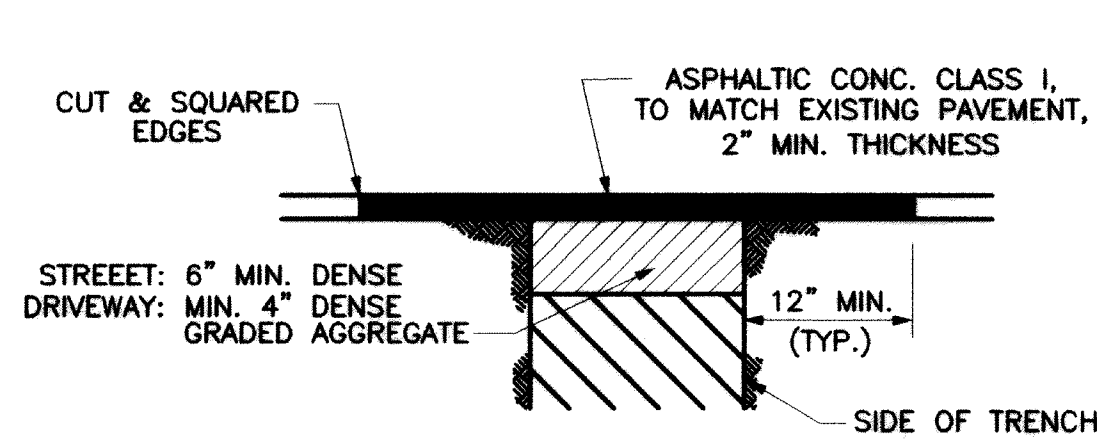
( UNDER SIDEWALKS & UNPAVED DRIVEWAYS )



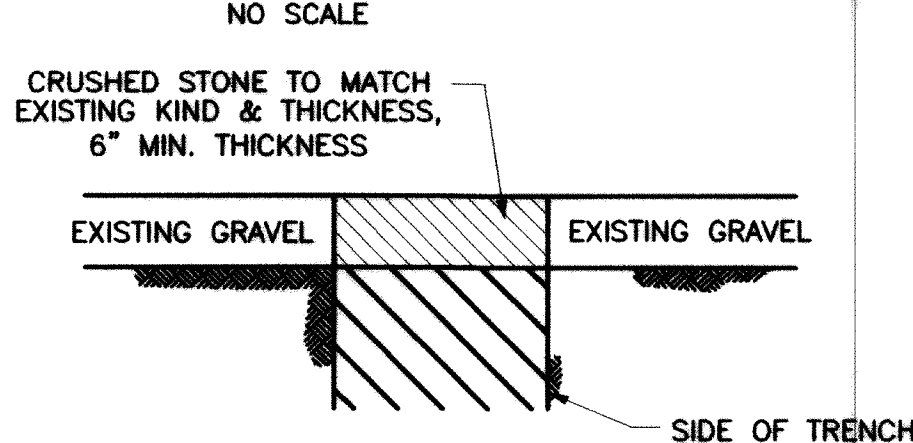
METHOD "C"

( UNDER PAVED STREETS, ROADS & DRIVEWAYS )

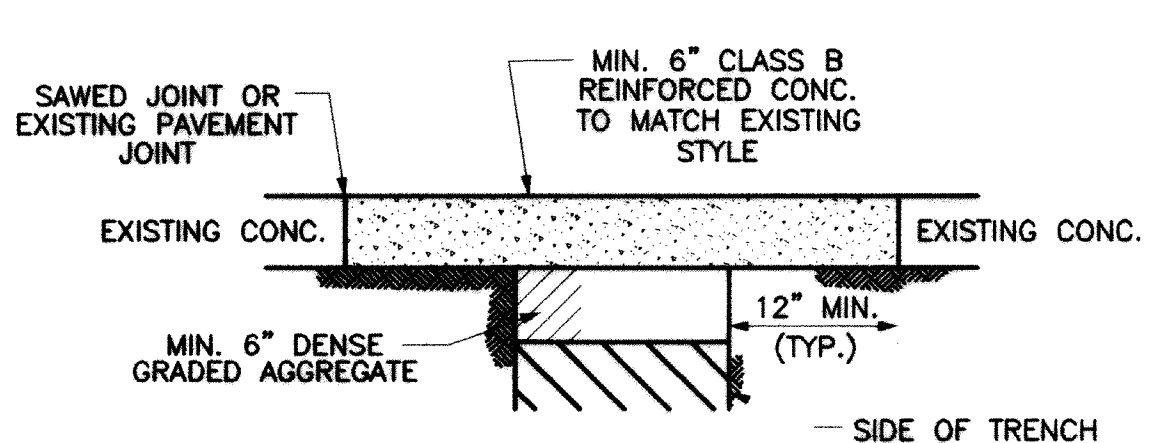
PIPE BEDDING & BACKFILLING DETAILS FOR PLASTIC PIPE



ASPHALT



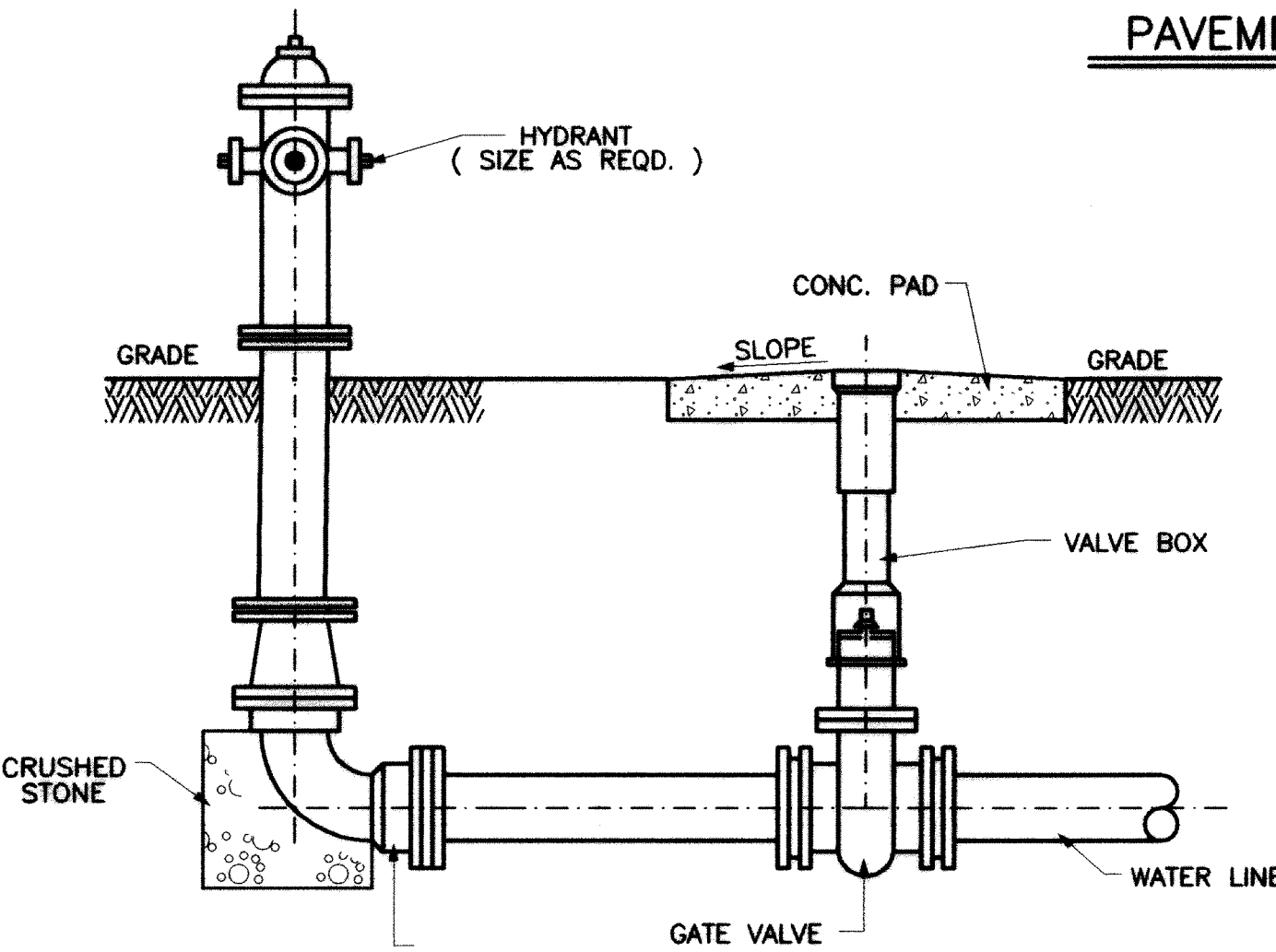
GRAVEL



CONCRETE

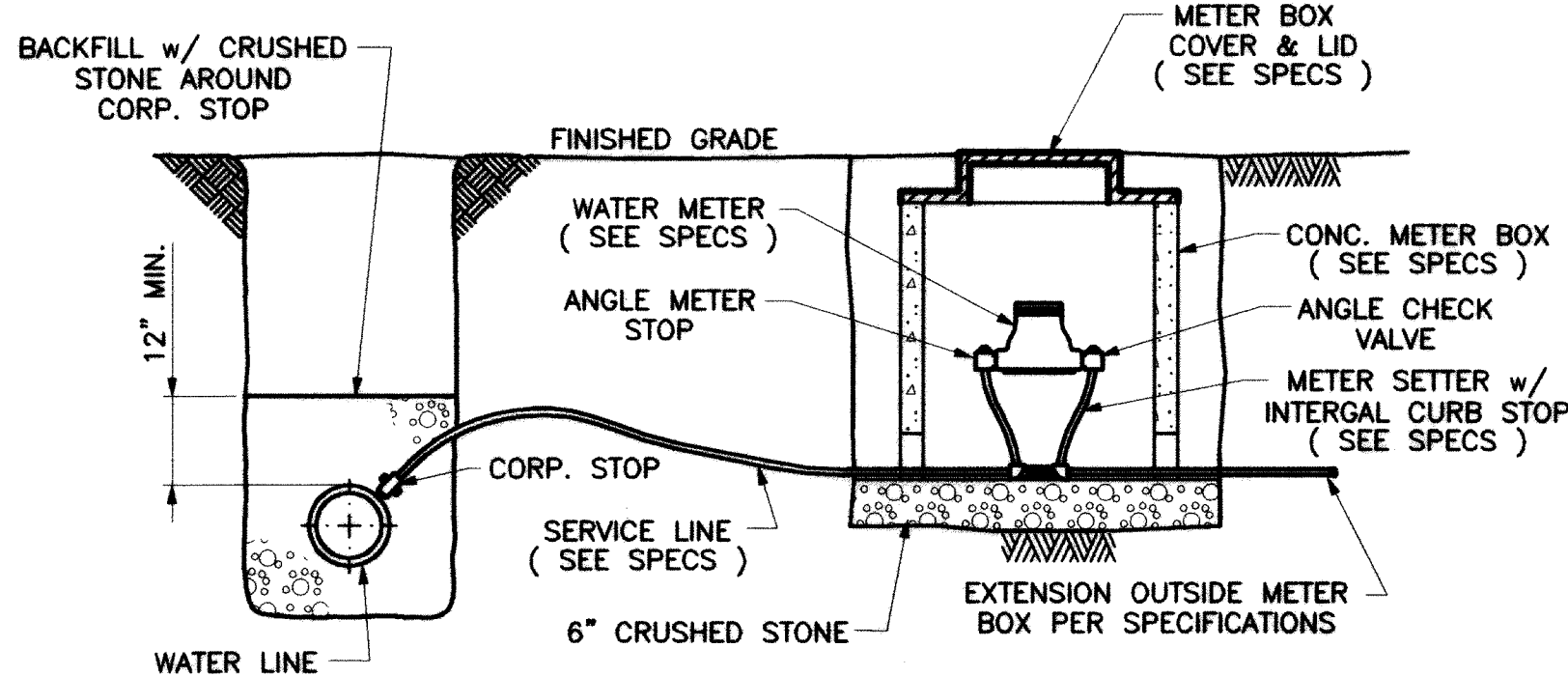
PAVEMENT REPLACEMENT DETAILS

NO SCALE



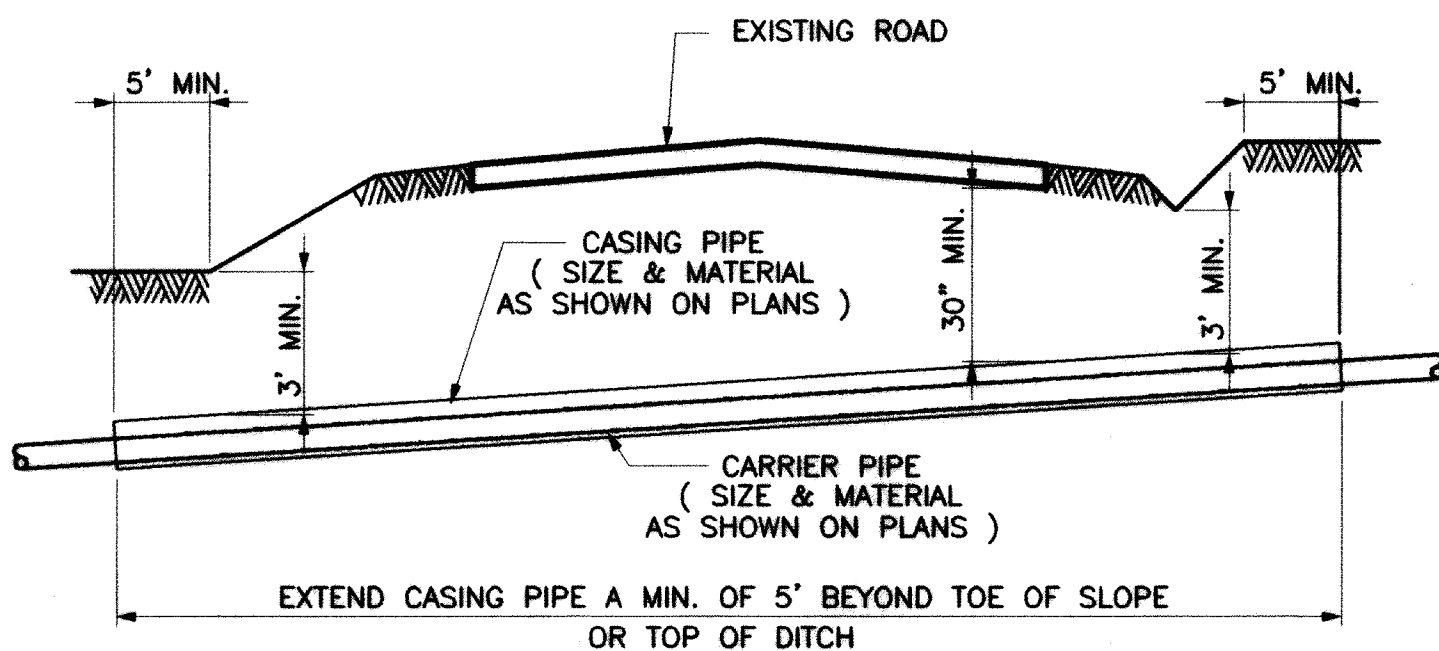
TYPICAL HYDRANT SETTING DETAIL

NO SCALE



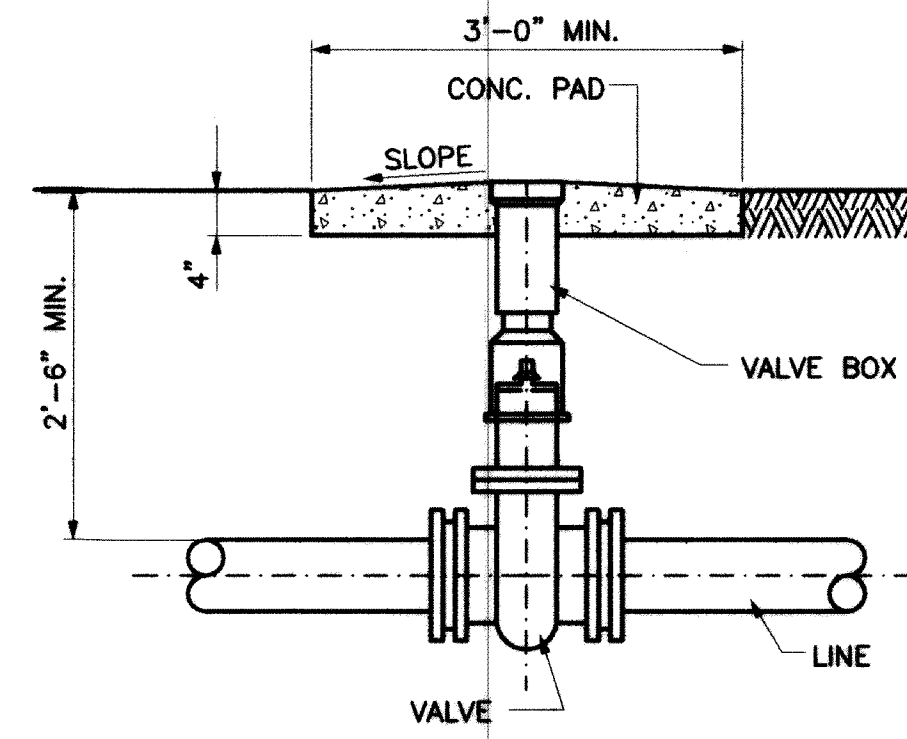
TYPICAL METER SETTING DETAIL

NO SCALE



TYPICAL ROAD BORE DETAIL

NO SCALE

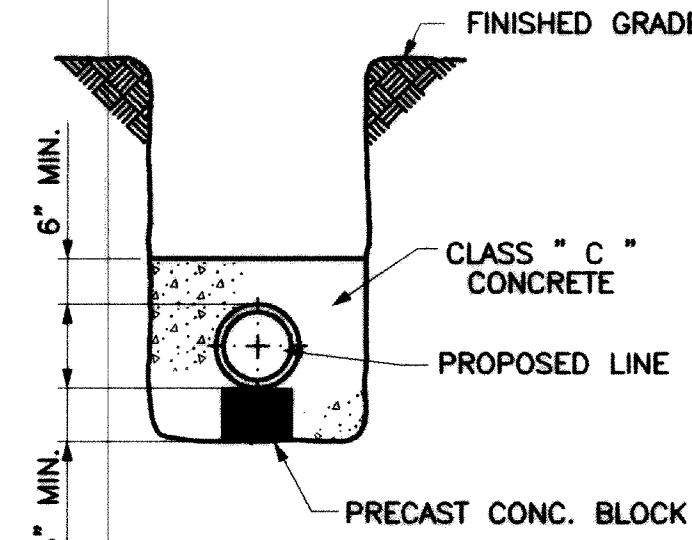


TYPICAL VALVE SETTING DETAIL

NO SCALE

NOTE :

PRECAST CONC. BLOCKS SHALL BE PLACED AT EACH BELL AND ALONG LENGTH OF PIPE AS REQD. TO PREVENT SAGGING OF PIPE DURING PLACEMENT OF CONCRETE. NUMBER OF BLOCKS REQD. DEPEND ON SIZE & PIPE MATERIAL.



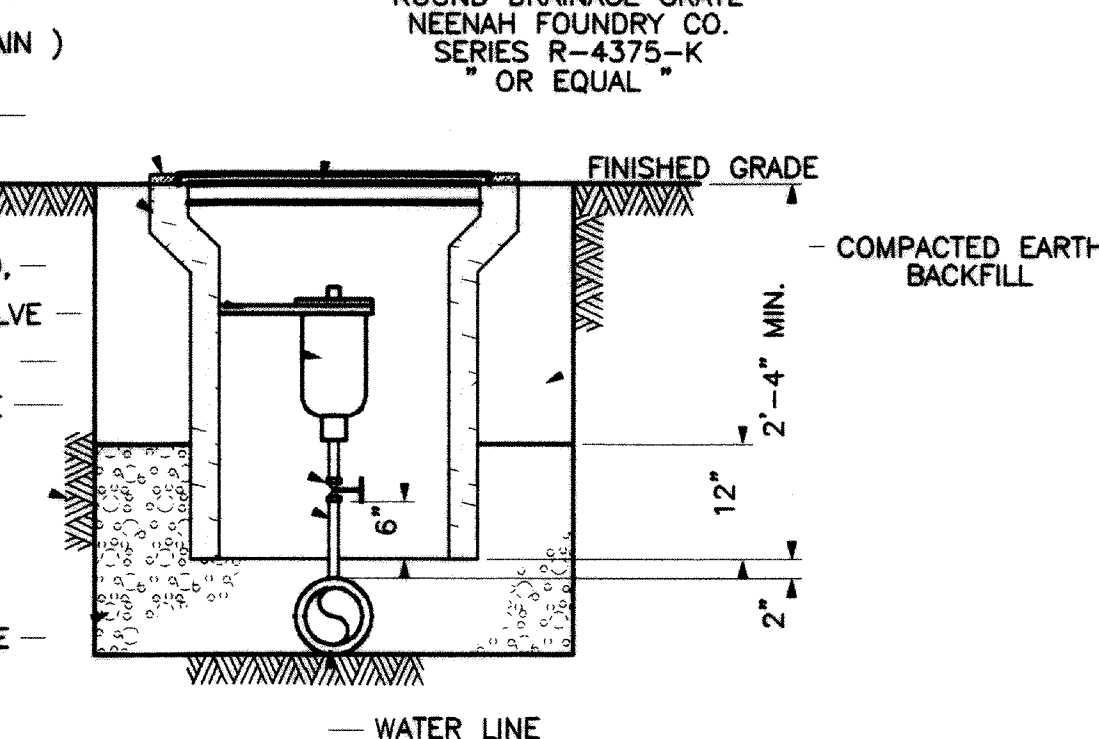
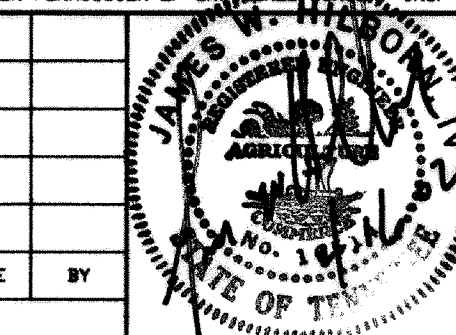
CONCRETE ENCASEMENT DETAIL

NO SCALE

BURIED TELEPHONE CABLES AND UTILITIES  
CALL: TENNESSEE ONE CALL (1-800-351-1111)

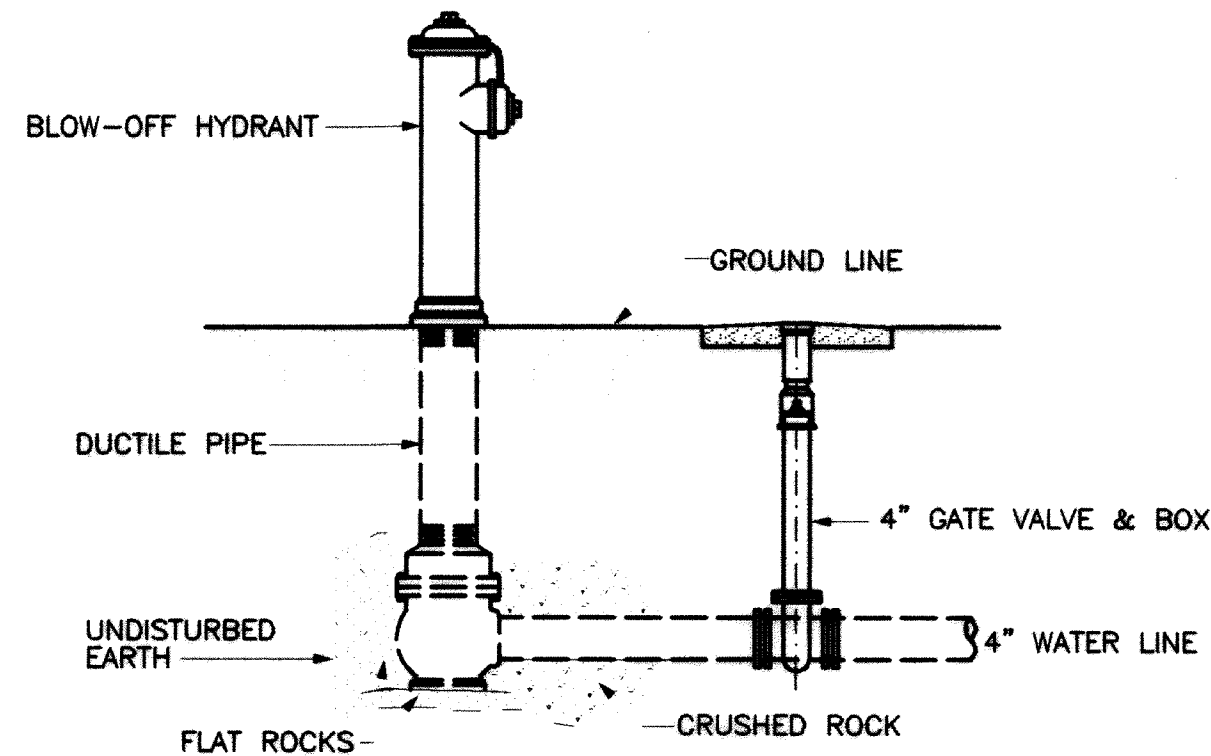
THIS DOCUMENT IS THE PROPERTY OF GRW ELROD DUNSON, INC. AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART OR USED FOR CONSTRUCTION OF OTHER THAN THIS SPECIFIC PROJECT WITHOUT WRITTEN PERMISSION OF GRW ELROD DUNSON, INC.

| NO. | DESCRIPTION | DATE | BY |
|-----|-------------|------|----|
|     | REVISIONS   |      |    |



AIR RELEASE VALVE DETAIL

NO SCALE



BLOW-OFF HYDRANT DETAIL

NO SCALE

GRW PROJECT NO. 7408-04

PERRY COUNTY  
LOBELVILLE, TENNESSEE  
WATER LINE EXTENSION, BRITTS LANDING  
STANDARD WATER DETAILS

GRW  
Engineers, Architects, Planners  
LEXINGTON LOUISVILLE INDIANAPOLIS  
NASHVILLE KNOXVILLE

|           |             |
|-----------|-------------|
| DESIGNED: | DATE:       |
| JWH       | APRIL, 2002 |
| DRAWN:    | SCALE:      |
| DLT       | AS NOTED    |
| REVIEWED: | SHEET NO.   |
| KRS       | C-7         |
| APPROVED: |             |
| JWH       |             |