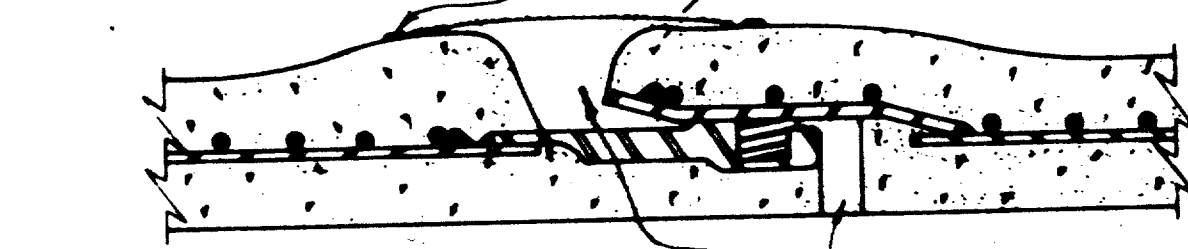


NOTE:

PROVIDE 1" MINIMUM THICKNESS CONCRETE OR CEMENT MORTAR COATING IN THE FIELD FOR THE PROTECTION OF ALL EXPOSED STEEL SUCH AS FLANGES, CAULKED-JOINTS, THREADED OUTLETS, CLOSURES, ETC. THE CEMENT MORTAR USED SHALL CONSIST OF ONE PART PORTLAND CEMENT TO TWO AND ONE-HALF PARTS OF FINE, SHARP (PLASTER) SAND WHERE SHOWN, COATING IS TO BE REINFORCED WITH WIRE MESH.

STEEL STRAP THREADED THROUGH HEM OF BURLAP WRAPPER, DRAWN TIGHT AND FASTENED.



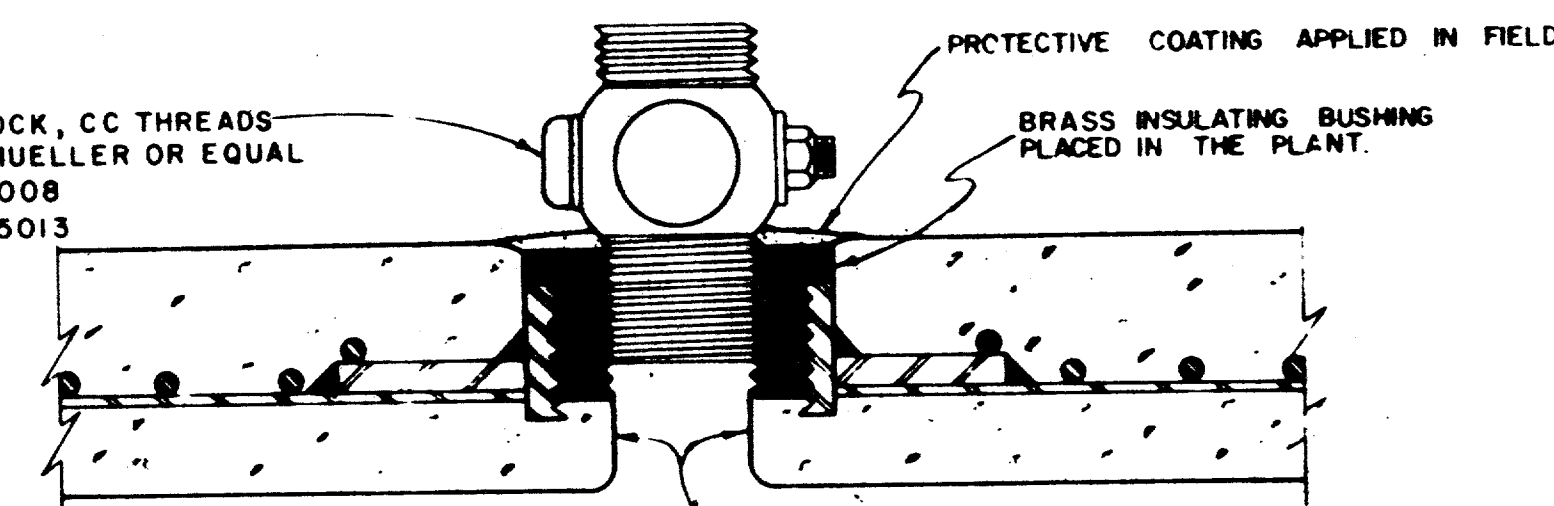
CEMENT MORTAR, MIXED TO A CONSISTENCY OF THICK CREAM, TO BE POURED IN FIELD.

BURLAP WRAPPER AS MANUFACTURED BY MAR-MAC CORP. OR EQUAL WIDTH OF WRAPPER TO BE 9" FOR 36" PIPE AND LARGER, 7" FOR 33" AND SMALLER.

STANDARD RUBBER GASKET JOINT

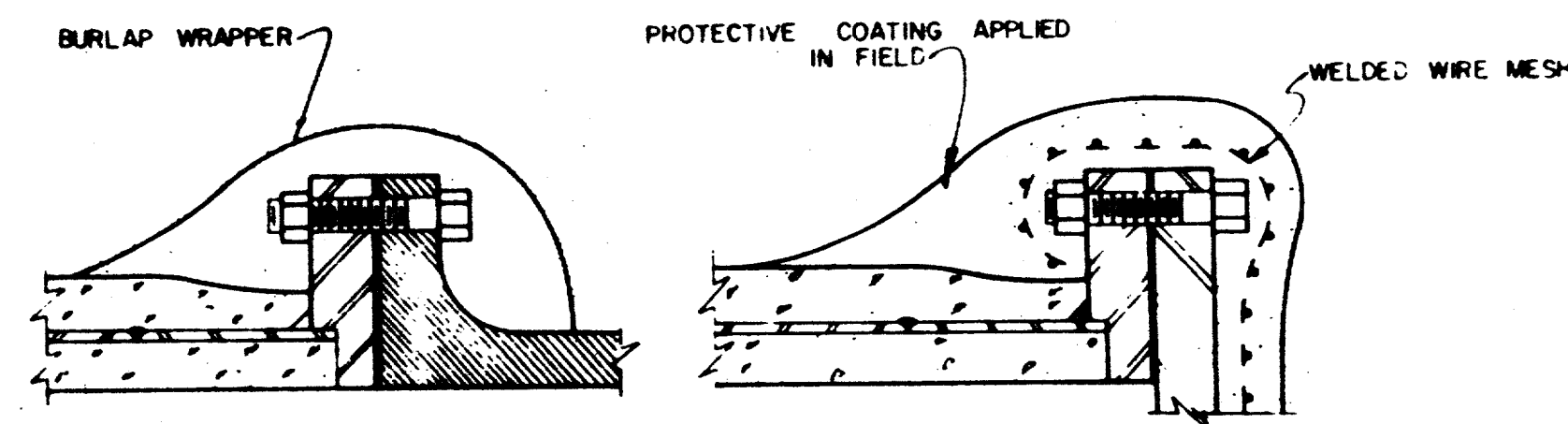
NOTE: ALL CLOSURE SECTIONS SHALL BE FABRICATED WITH HAND HOLES TO ALLOW WIPING INSIDE OF JOINTS AFTER CLOSURE IS IN PLACE.

CORPORATION COCK, CC THREADS ON INLET END MUELLER OR EQUAL 3/4" - 1" = H 15008 1-1/2" - 2" = H 15013



NOTE: IF CORPORATION COCK IS NOT PROVIDED IN FIELD, THEN STEEL PLUG SHALL BE COVERED WITH CEMENT MORTAR.

THREADED CONNECTION

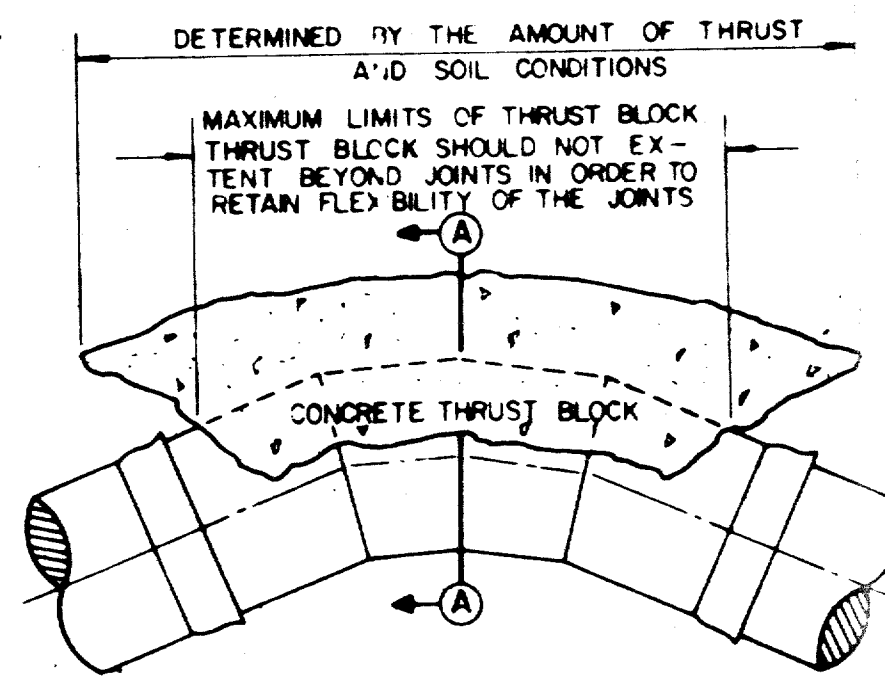


FLANGED CONNECTIONS

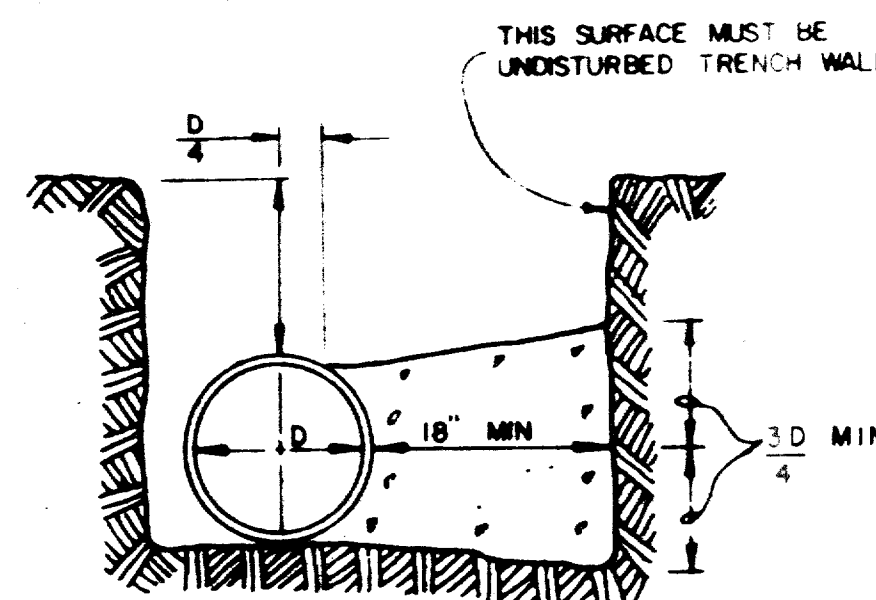
REINFORCED CONCRETE CYLINDER PIPE DETAILS

NOTE:

ANY SURFACE RECEIVING A CEMENT MORTAR COATING SHALL BE THOROUGHLY CLEAN AND WETTED WITH WATER JUST PRIOR TO PLACING THE CEMENT MORTAR COATING. AFTER PLACEMENT, CARE SHALL BE TAKEN TO PREVENT CEMENT MORTAR COATING FROM DRYING OUT TOO RAPIDLY BY COVERING WITH DAMP EARTH OR BURLAP. CEMENT MORTAR COATING SHALL NOT BE APPLIED DURING FREEZING WEATHER.

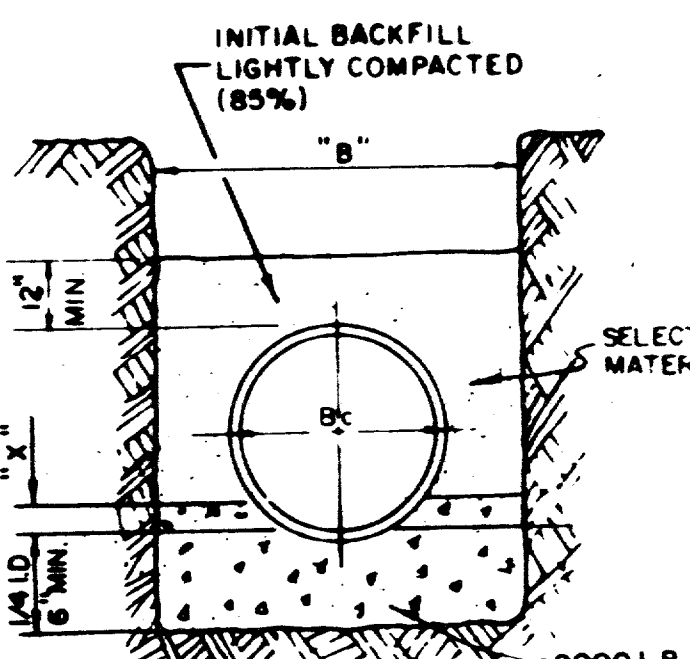


PLAN VIEW

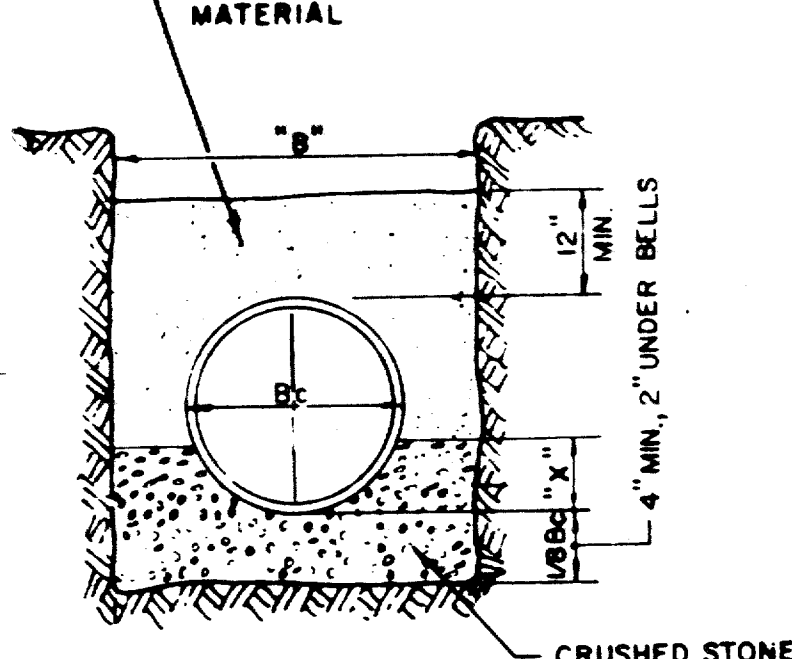


SECTION A-A

THRUST BLOCK DETAIL

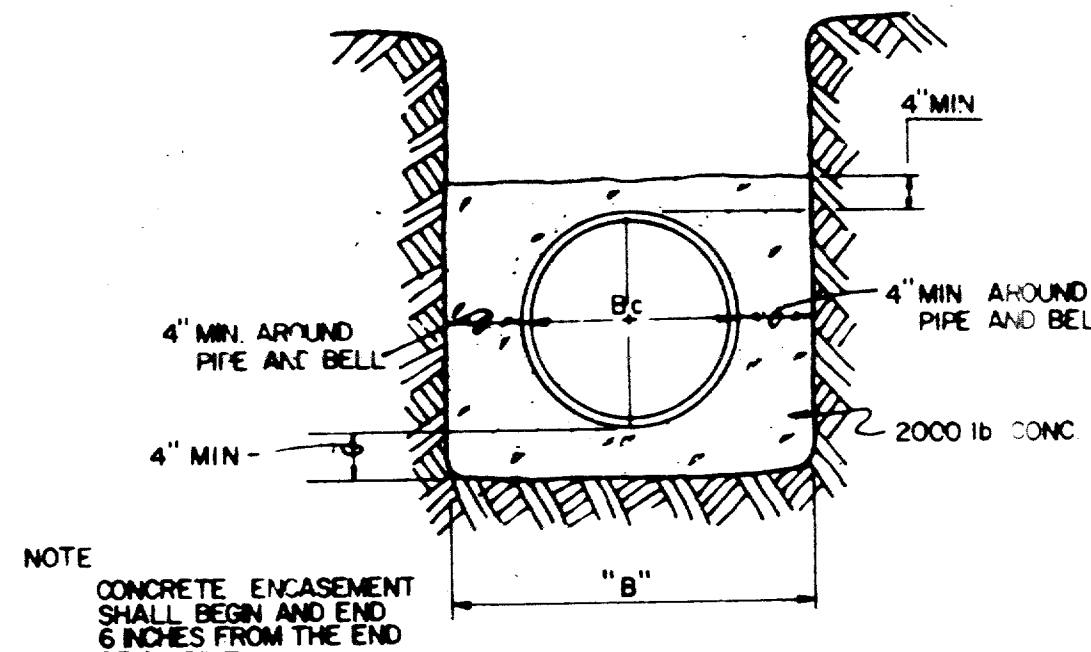


CONCRETE CRADLE



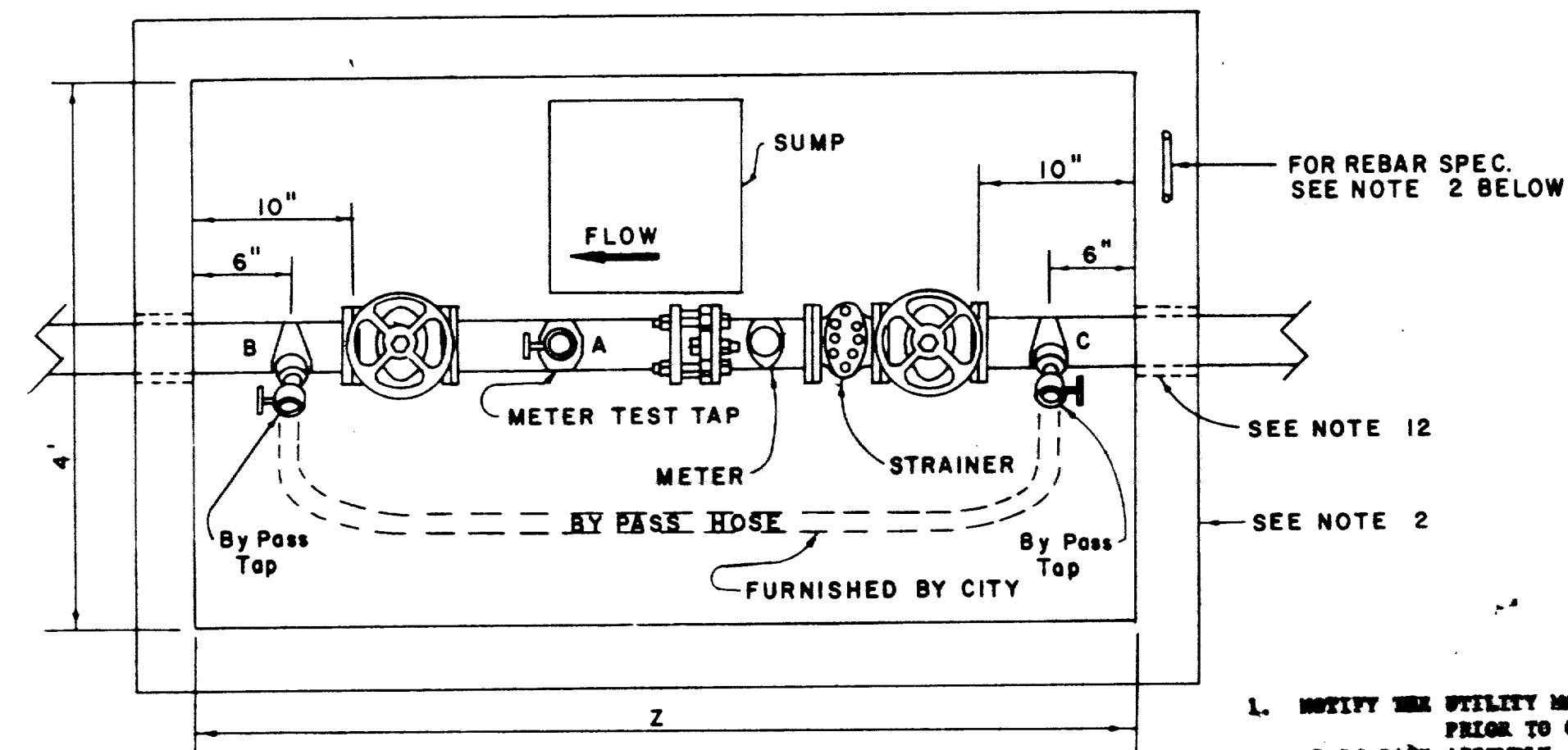
CLASS "I" EMB.

EMBEDMENT DETAILS



NOTE: CONCRETE ENCASEMENT SHALL BEGIN AND END 6 INCHES FROM THE END OF A JOINT.

CONCRETE ENCASUREMENT

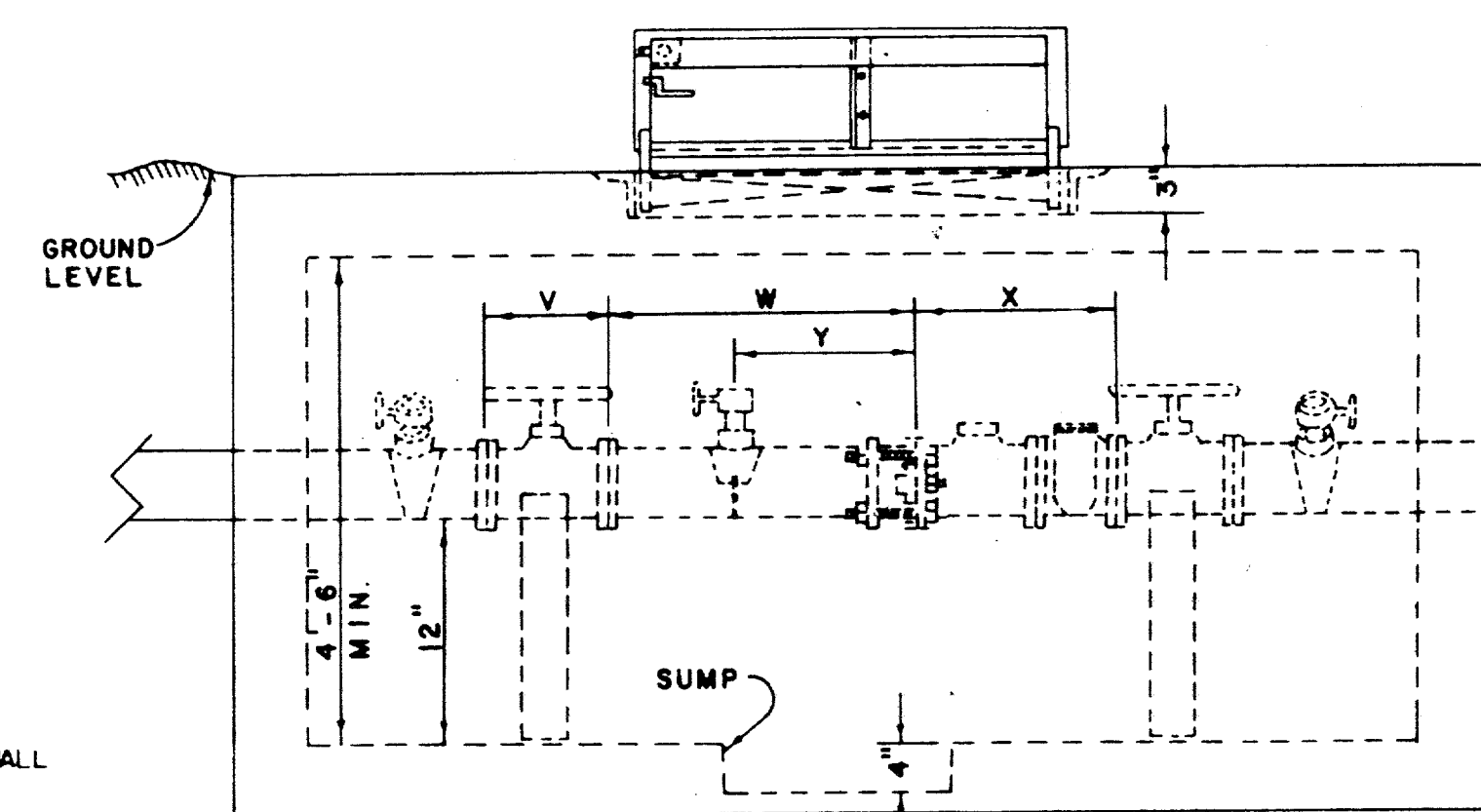


DIMENSION FOR 3", 4", & 6" M.V.

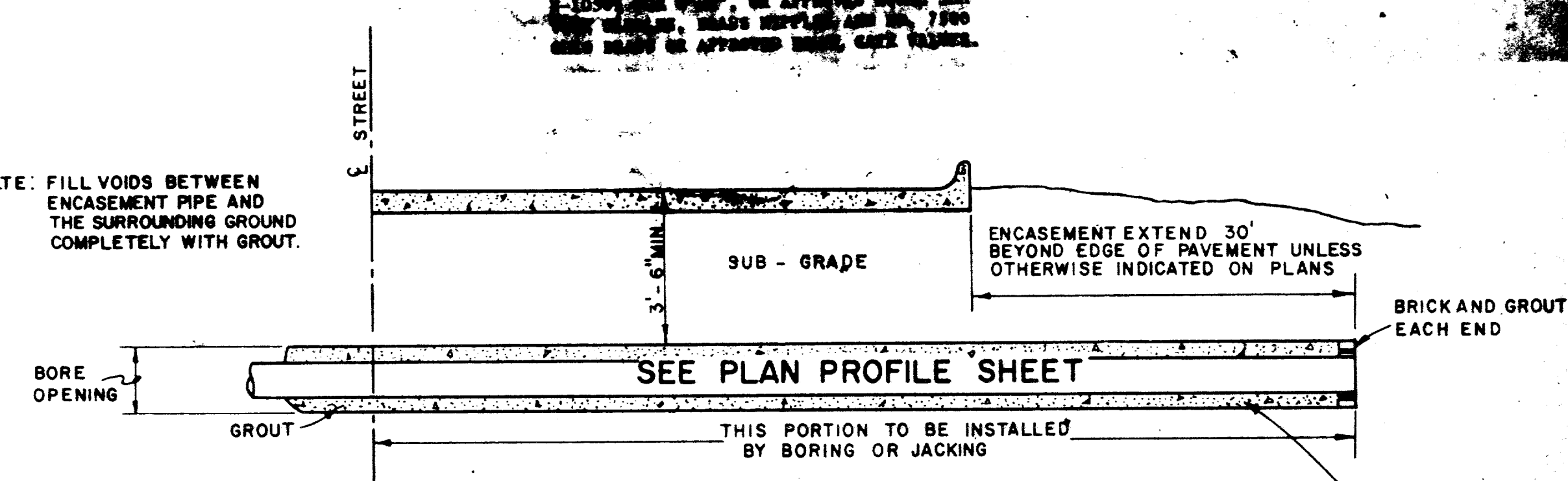
| MIN DIMENSION | 3" | 4" | 6" |
|---------------|-------|-----|-------|
| V | 8" | 9" | 10.5" |
| W | 15" | 20" | 18" |
| X | 20" | 23" | 27" |
| Y | 9" | 9" | 12" |
| Z | 6'-1" | 7' | 7'-5" |

NOTE: TABLE 1 IS PASS SPECIFICATIONS

- NOTIFY THE UTILITY MAINTENANCE DEPARTMENT PRIOR TO CONSTRUCTION OF VAULT OR BY-PASS ASSEMBLY.
- THE METER VAULT CAN BE EITHER FORMED IN PLACE OR PREPARED. CONCRETE SHALL BE 6" THICK AND BE 5000 PSI REINFORCED WITH #4 STEEL BARS ON 12" CENTER. REINFORCING BARS SHALL BE 1" DIAMETER AND BE 4300 PSI CONCRETE (4 STEEL BARS OF 1" DIAMETER ARE MINIMUM SPECIFICATIONS).
- THE VAULT SHALL NOT BE FOR ANY SERVICE OR PARKING AREAS AND MUST BE LOCATED IN A UTILITY MANSION.
- A DRAWING WITH THE EXACT MEASUREMENTS OF THE METER VAULT AND BY-PASS SHALL BE SUBMITTED TO THE CONTRACTOR FOR A 3", 4" AND 6" METER.
- THE VAULT LID SHALL BE A 12" LID, TYPE Q-4 SINGLE LIFT DESIGN. JOINTS SHALL BE 4" SPACED WITH 1/2" GASKETS. THE LID IS 1/2" THICK. REINFORCING BARS SHALL BE 1/2" DIAMETER AND BE 4300 PSI CONCRETE. THE REINFORCING BARS SHALL BE 1/2" DIAMETER AND BE 4300 PSI CONCRETE. THE SIZE OF THE LID IS 1' x 1'.
- THE LID SHALL BE PAINTED WITH 10-MIN DRYING TIME ALUMINUM PAINT OR APPROVED EQUIV.
- CONTRACTOR SHALL HAVE 5 DAYS TESTING THE VAULT. THE VAULT SHALL BE AT LEAST TWO (2) DAYS BEFORE THE METER IS INSTALLED. THE VAULT SHALL BE 1/2" ABOVE THE FINISHED GRADE. THE VAULT SHALL BE 1/2" ABOVE THE FINISHED GRADE. THE VAULT SHALL BE 1/2" ABOVE THE FINISHED GRADE.
- THE STRAINER, METER, AND FURNISH EQUIPMENT WILL BE PROVIDED AND SUPPLIED BY THE TOWN OF ADDISON AT THE CONTRACTOR'S EXPENSE.
- THE STRAINER, METER AND FURNISH EQUIPMENT SHALL NOT BE USED UNTIL THE METER VAULT IS TESTED AND ACCEPTED BY THE TOWN OF ADDISON UTILITY MAINTENANCE DEPARTMENT.
- THE GATE VALVES ARE REQUIRED TO BE MODEL A-1370-S, FLANGED THROUGH THE VAULT.
- THE BOTTOM OF THE METER VAULT SHALL BE AT LEAST 12" BELOW THE FINISHED GRADE. THE VAULT SHALL BE 1/2" ABOVE THE FINISHED GRADE. THE VAULT SHALL BE 1/2" ABOVE THE FINISHED GRADE.
- CONTRACTOR SHALL HAVE A 1/2" GASKET ON THE VAULT LID. THE VAULT SHALL BE 1/2" ABOVE THE FINISHED GRADE. THE VAULT SHALL BE 1/2" ABOVE THE FINISHED GRADE.
- WHEN BORE HOLES WILL BE A CONCRETE SUPPLY.
- DEPTH OF VAULT SHALL BE A MINIMUM OF 6' FEET.



NOTE: FILL VOIDS BETWEEN ENCASUREMENT PIPE AND THE SURROUNDING GROUND COMPLETELY WITH GROUT.



HALF-SECTION TYPICAL HIGHWAY CROSSING NO SCALE

NOTE: ENCASUREMENT PIPE MAY BE ELIMINATED FOR CITY STREETS.

| INSIDE DIAMETER OF PIPE | APPROX. OUTSIDE DIAMETER OF PIPE | IS A MINIMUM DEPTH | TRENCH WIDTH FOR COMPUTATION OF QUANTITIES | CONCRETE | | CRUSHED STONE FOR CL" EMBEDMENT |
|-----------------------------------|----------------------------------|--------------------|--|---------------|------------------|---------------------------------|
| | | | | FOR EMBEDMENT | FOR ENCASUREMENT | |
| REINFORCED CONCRETE CYLINDER PIPE | | | | | | |
| 14" | 17.25" | 2.53' | 34" | 6.91 | 16.07 | 5.16 |
| 16" | 19.38" | 2.84' | 36" | 7.50 | 17.76 | 5.64 |
| 18" | 21.78" | 3.19' | 38" | 8.11 | 19.52 | 6.16 |
| 24" | 27.75" | 4.06' | 44" | 9.97 | 24.90 | 9.28 |

| | | | |
|---|----------|---------------------|-------|
| NO. | REVISION | BY | DATE |
| TOWN OF ADDISON, TEXAS DEPARTMENT OF ENGINEERING | | | |
| STANDARD CONSTRUCTION DETAILS WATER | | | |
| WATER PIPE DETAILS | | | |
| APPROVED _____ | | H. WAYNE GINN, P.E. | |
| DATE MARCH, 1984 | SHEET | | SD-17 |

