



CONCRETE THRUST BLOCK - TABLE
 MIN. BEARING AREA AGAINST UNDISTURBED SOIL
 IN SQUARE FEET

PIPE SIZE	TEES, VALVES & DEAD ENDS	90° BEND	45° BEND	22.5° BEND	11.25° BEND
4"	2	3	2	2	2
6"	4	6	3	2	2
8"	7	10	5	3	2
12"	15	22	12	6	3
16"	27	38	21	11	5

NOTES:

- UNDISTURBED BEARING AREA OF CONCRETE THRUST BLOCK BASED ON 200 PSI WATER PRESSURE AND SAFE SOIL BEARING LOAD OF 2,000 POUNDS PER SQUARE FOOT.
- AREAS MUST BE ADJUSTED FOR OTHER PIPE SIZES, PRESSURES AND SOIL CONDITIONS.
- CONCRETE BLOCKING SHALL BE CAST IN PLACE AND HAVE A MINIMUM OF 1/2 SQUARE FOOT BEARING AGAINST THE FITTING.
- BLOCK SHALL BEAR AGAINST FITTINGS ONLY AND SHALL BE CLEAR OF JOINTS TO PERMIT TAKING UP OR DISMANTLING OF JOINT.
- CONTRACTOR SHALL INSTALL BLOCKING ADEQUATE TO WITHSTAND OPERATION PRESSURE UNDER ALL CONDITIONS OF SERVICE.
- INSTALL PLASTIC SHEETING BETWEEN FITTINGS AND CONCRETE BLOCKING.
- THRUST BLOCKS FOR FITTINGS GREATER THAN 16-INCHES OR DEADMAN BLOCKING SHALL BE BY SPECIAL DESIGN.
- ALL MECHANICAL JOINTS (MJ) SHALL BE EQUIPPED WITH MECHANICAL RESTRAINT DEVICES (SEE STANDARDS).

CONCRETE THRUST BLOCKING

NTS



APPROVAL DATE
10/21/2020

DRAWN
SED

CHECKED
DS

Handwritten: JSD 10/28/20

PLOTTING SCALE
NTS

DETAIL NUMBER
HWD STANDARD DETAIL 5