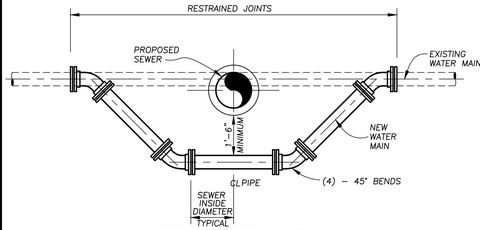
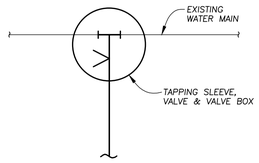


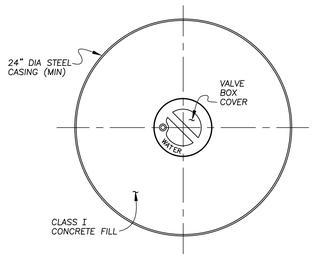
WATER MAIN RELOCATION
UNDER PROPOSED SEWER (TYPICAL)

3/8" = 1'-0"

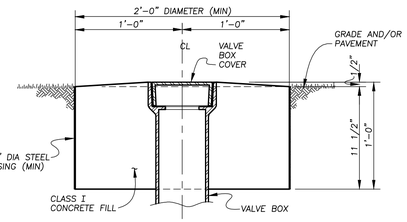


CONNECTION TO EXISTING WATER MAIN

NO SCALE



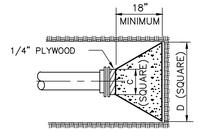
PLAN



SECTION

WATER VALVE BOX
ENCASEMENT DETAIL

1 1/2" = 1'-0"



PLAN & ELEVATION

PLUGS

TYPE	SIZE	PLUGS	
		C	D
2000 PSF SOIL	6" *	10"	24"
	8"	12"	32"
	10"	14"	40"
	12"	16"	47"
	14"	18"	54"
	16"	20"	61"
	20"	24"	74"
	24"	28"	88"

*6" OR LESS

NOTE
BASED ON 150 PSI STATIC PRESSURE.
ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.

THRUST BLOCKING DETAIL

NO SCALE

DEAD END	LENGTHS OF RESTRAINED PIPE
8"	60'
12"	100'
16"	120'

FITTINGS	LENGTHS OF RESTRAINED PIPE FOR LARGER PIPE
REDUCER	
8" X 4"	60'
8" X 6"	40'
12" X 6"	80'
12" X 8"	60'

FITTINGS	LENGTHS OF RESTRAINED PIPE FOR TEE BRANCH
TEE	
8" X 6"	60'
8" X 8"	60'
12" X 6"	60'
12" X 8"	60'
12" X 12"	100'
16" X 8"	60'
16" X 12"	100'
16" X 16"	120'

FITTINGS	LENGTHS OF RESTRAINED PIPE EACH SIDE OF BEND
HORIZONTAL BEND	
8" 11 1/4°	20'
8" 22 1/2°	20'
8" 45°	40'
8" 90°	80'
12" 11 1/4°	20'
12" 22 1/2°	20'
12" 45°	60'
12" 90°	120'
16" 11 1/4°	20'
16" 22 1/2°	40'
16" 45°	60'
16" 90°	140'

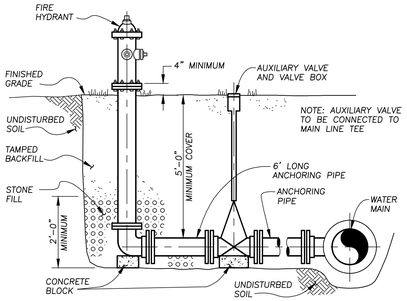
FITTINGS	LENGTHS OF RESTRAINED PIPE EACH SIDE OF BEND
VERTICAL BEND (UP)	
8" 11 1/4°	20'
8" 22 1/2°	20'
8" 45°	40'
8" 90°	40'
12" 11 1/4°	20'
12" 22 1/2°	20'
12" 45°	60'
12" 90°	120'
16" 11 1/4°	20'
16" 22 1/2°	40'
16" 45°	60'
16" 90°	140'

FITTINGS	LENGTHS OF RESTRAINED PIPE EACH SIDE OF BEND
VERTICAL BEND (DOWN)	
8" 11 1/4°	20'
8" 22 1/2°	40'
8" 45°	60'
8" 90°	120'
12" 11 1/4°	20'
12" 22 1/2°	40'
12" 45°	80'
12" 90°	180'
16" 11 1/4°	40'
16" 22 1/2°	60'
16" 45°	100'
16" 90°	240'

RESTRAIN ALL JOINTS WITHIN THE INDICATED DISTANCES FOR THE FITTINGS DESCRIBED.

RESTRAINED JOINTS TABLE

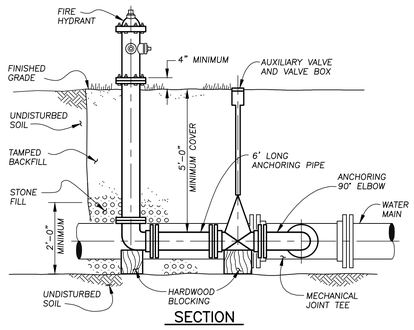
BASED ON 150 PSI STATIC PRESSURE



SECTION

HYDRANT PERPENDICULAR TO WATER MAIN DETAIL

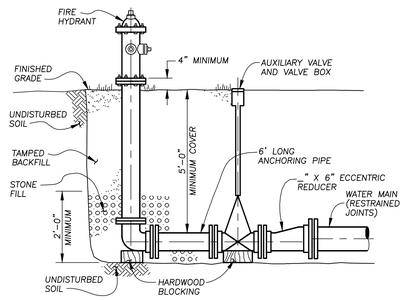
1/2" = 1'-0"



SECTION

HYDRANT PARALLEL TO WATER MAIN DETAIL

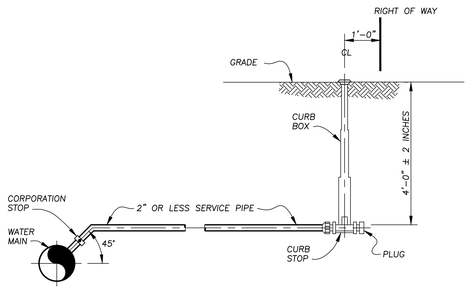
1/2" = 1'-0"



SECTION

HYDRANT AT END OF WATER MAIN DETAIL

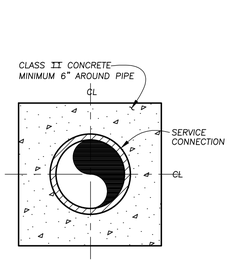
1/2" = 1'-0"



SECTION

TYPICAL 2" OR LESS SERVICE CONNECTION

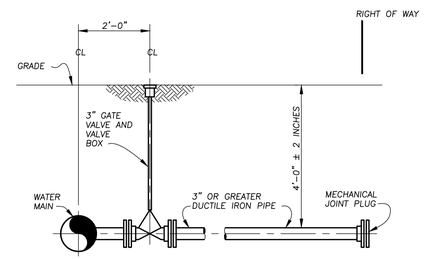
1/2" = 1'-0"



SECTION

CONCRETE PIPE ENCASEMENT

NO SCALE

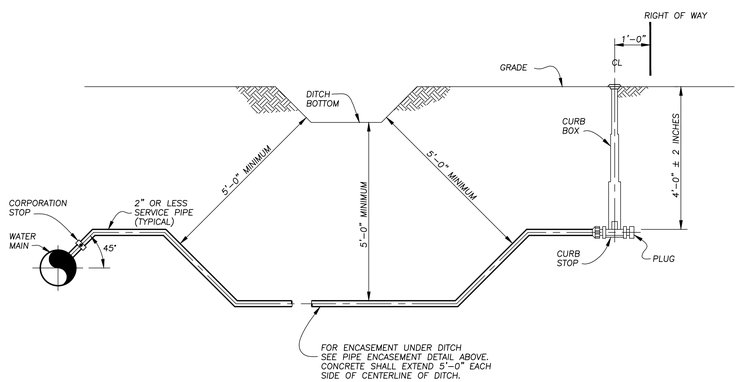


NOTE:
RESTRAIN ALL JOINTS

SECTION

TYPICAL 3" OR GREATER SERVICE CONNECTION

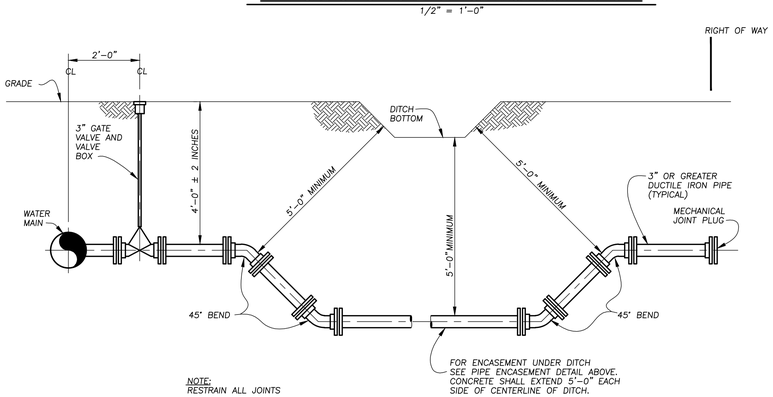
1/2" = 1'-0"



SECTION

TYPICAL 2" OR LESS SERVICE CONNECTION BELOW DITCH

1/2" = 1'-0"



NOTE:
RESTRAIN ALL JOINTS

SECTION

TYPICAL 3" OR GREATER SERVICE CONNECTION BELOW DITCH

1/2" = 1'-0"

REVISED

PAVEMENT AND WATER MAIN STANDARD DETAILS

CITY OF PERRYSBURG, OHIO

DEPARTMENT OF PUBLIC SERVICE DIVISION OF WATER

TO000283.B001\PERWDET1