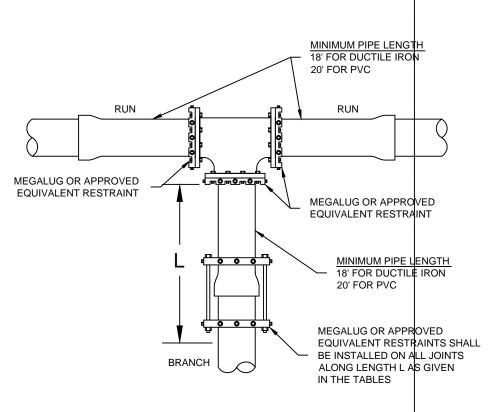
## UTILITY DETAILS WATER

## PIPE RESTRAINTS FOR PVC & DIP AT BENDS

NOT TO SCALE

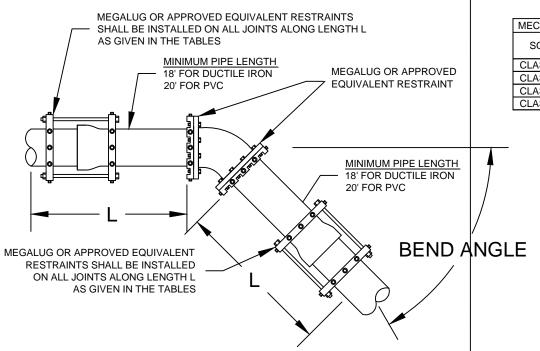


CLASS A SOILS
GW: WELL GRADED GRAVELS AND GRAVEL-SAND
MIXTURES, LITTLE OR NO FINES
SW: WELL GRADED SANDS AND GRAVELLY SANDS,
LITTLE OR NO FINES
GC: CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
SC: CLAYEY SANDS, SAND-CLAY MIXTURES

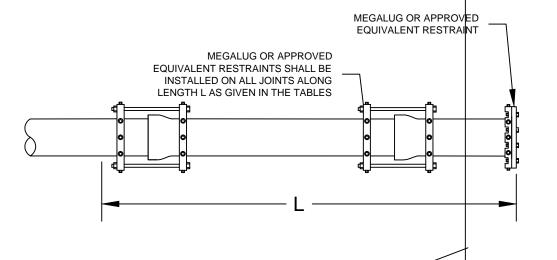
CLASS B SOILS
GP: POORLY GRADED GRAVELS AND GRAVEL-SAND
MIXTURES, LITTLE OR NO FINES
SP: POORLY GRADED SANDS AND GRAVELLY SANDS,
LITTLE OR NO FINES

GM: SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
SM: SILTY SANDS, SAND SILT MIXTURES
79
CL: INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY,
GRAVELLY CLAYS, SANDY LAYS, LEAN CLAYS
ML: INORGANIC SILTS, VERY FINE SANDS, ROCK FLOUR,
SILTY OR CLAYEY FINE SANDS

ECHANICAL RESTRAINT SPECIFICATION "L" IN FEET				
SOIL CONDITION & DEPTH OF PIPE	8"-8" PVC	8"-8" DIP		
CLASS A NATIVE SOIL - 2' BURY	60	39		
CLASS A NATIVE SOIL - 4' BURY	20	18		
CLASS B NATIVE SOIL - 2' BURY	91	60		
CLASS B NATIVE SOIL - 4' BURY	40	27		
	SOIL CONDITION & DEPTH OF PIPE CLASS A NATIVE SOIL - 2' BURY CLASS A NATIVE SOIL - 4' BURY CLASS B NATIVE SOIL - 2' BURY	SOIL CONDITION & DEPTH OF PIPE 8"-8" PVC CLASS A NATIVE SOIL - 2' BURY 60 CLASS A NATIVE SOIL - 4' BURY 20 CLASS B NATIVE SOIL - 2' BURY 91		



MECHANICAL RESTRAINT SPECIFICATION	1 "L" IN	I FEE	T FOR	BENE	OS ON	8" DIA	A. PIPI	E
SOIL CONDITION & DEPTH OF PIPE	FFÁFл GGÁFÐG»					J€»		
SOIL CONDITION & DEFITTOT FIFE	PVC	DIP	PVC	DIP	PVC	DIP	PVC	DI
CLASS A NATIVE SOIL - 2' BURY	20	18	20	18	20	18	40	33
CLASS A NATIVE SOIL - 4' BURY	20	18	20	18	20	18	24	20
CLASS B NATIVE SOIL - 2' BURY	20	18	20	18	21	18	50	42
CLASS B NATIVE SOIL - 4' BURY	20	18	20	18	20	18	34	28



MECHANICAL RESTRAINT SPECIFICA	TION "	L"			
IN FEET FOR DEAD ENDS ON 8" DIAMETER					
SOIL CONDITION & DEPTH OF PIPE	PVC	D			
CLASS A NATIVE SOIL - 2' BURY	128	7			
CLASS A NATIVE SOIL - 4' BURY	79	4			
CLASS B NATIVE SOIL - 2' BURY	166	1			
CLASS B NATIVE SOIL - 4' BURY	87	5			

## GENERAL NOTES

- 1) ALL WATER MAIN PIPE SHALL BE 8" C900 PVC DR25 @ 165 PSI.
- 2) ALL WATERLINES SHALL BE INSTALLED TO A MINIMUM COVER OF THIRTY-SIX (36) INCHES UNLESS OTHERWISE NOTED.
- 3) CONTRACTOR SHALL NOT CONNECT TO THE EXISTING SYSTEM UNTIL ALL TESTING AND DISINFECTION IS COMPLETE AND SHALL OBTAIN WRITTEN PERMISSION FROM THE ENGINEER TO PROCEED WITH CONNECTION TO THE EXISTING SYSTEM.
- 4) THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS AND ELEVATIONS TO AVOID POTENTIAL CONFLICTS.
- 5) THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES AND OWNER WITH REGARD TO RELOCATING, ADJUSTING, REPLACING AND/OR REPAIRING UTILITIES DURING CONSTRUCTION.
- 6) THE CONTRACTOR SHALL POT HOLE AND HAND DIG IN ALL AREAS WHERE THE NEW WATERLINE IS SHOWN IN CLOSE PROXIMITY (MIN. 2 FT) TO ALL UTILITIES. EXTRA PRECAUTION SHALL E TAKEN AT THESE LOCATIONS.