



DEPTH OF COVER (D)	
PIPE DIAMETER (IN)	MINIMUM DEPTH (FT)
30	5.0
36	5.0
42	5.5
48	5.5
54	5.5
60	5.5
64	5.5

- NO. DESCRIPTION:**
- RUN X 8" SWIVEL OR RMJ OUTLET TEE.
  - 8" 90° BEND (RMJ).
  - 8" RMJ GATE VALVE WITH FOSTER ADAPTOR.
  - 8" RJ DIP.
  - 8" RMJ GATE VALVE AT FH WITH FOSTER ADAPTOR.
  - HIGH VELOCITY FIRE HYDRANT, 6' BOC OR 4' BACK OF DITCH CENTERLINE. FIRE HYDRANT SHALL BE PAINTED OSHA SAFETY BLUE. PUMP NOZZLES SHALL BE PARALLEL TO THE ROADWAY / CURB.
  - VALVE BOX ASSEMBLY. SEE STANDARD DETAIL.
  - CONCRETE HYDRANT COLLAR. CAST IN PLACE. 3' DIAMETER BY 8" THICK. REINFORCE WITH #4 REBARS.
  - MINIMUM 9 CUBIC FEET OF #57 WASHED STONE PROPORTIONALLY AROUND FH SHOE. DO NOT COVER WEEP HOLE. ENCAPSULATE WASHED STONE WITH FILTER FABRIC.
  - 8" X 16" SOLID CONCRETE BLOCK.
  - FOSTER ADAPTER.
  - #4 REBARS

- NOTES:**
- ALL PIPE AND FITTINGS TO BE RESTRAINED JOINT DIP WITH FACTORY RESTRAINED JOINT FITTINGS OR MJ FITTINGS WITH WEDGE ACTION RESTRAINT.
  - REFERENCE STANDARD DETAIL FOR AWG. #12 GAUGE SOLID COPPER TRACER WIRE WITH BLUE 30 MILS HDPE INSULATION.
  - SEE CONSTRUCTION PLANS FOR LOCATION OF HYDRANTS.
  - AIR RELEASE HYDRANTS SHALL BE INSTALLED AT ALL HIGH POINTS AS DIRECTED BY THE ENGINEER.
  - EXTENSION KITS REQUIRE THE APPROVAL OF THE ENGINEER. HYDRANT EXTENSION KITS SHALL BE LIMITED TO 1 EACH PER HYDRANT. DO NOT CAST THE CONCRETE COLLAR ON THE EXTENSION JOINT.

CHARLOTTE WATER  
 A CITY OF CHARLOTTE DEPARTMENT  
 STANDARD DETAILS  
 WATER

8-INCH MANUAL AIR RELEASE AND FH FOR  
 30-INCH THROUGH 64-INCH DIAMETER MAINS

NO SCALE  
 VERSION 1.0  
 DATE 04/2024  
 DETAIL 10.2.3