

WATERWORK QUANTITIES & NOTES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

46
146

LAKE COUNTY
LAK-91-(0.00)-(2.38)

SUMMARY OF WATERWORK QUANTITIES																				
SH. NO.	REF. NO.	STATION		I-124																
				12"			12" TEE	12"x12"x6" TEE	REMOVE & RESET FIRE HYD.	12" GATE VALVE & BOX	12" x 6" REDUCER	6"		6" TEE	6" PLUGS	6" GATE VALVE & BOX	INSTALL FIRE HYDRANT	WATER VALVE BOX ADJUST TO GRADE		
		WATER MAIN	BENDS		WATER MAIN	BENDS														
		FROM	TO	LIN. FT.	1/8"	1/4"	1/2"	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		
31	1-W	32+55	35+92	335	1	2	2													
31	2-W	31+62	32+55																	
31	3-W	31+94±	31+99±																	
37	4-W	4+63	9+00																	
TOTAL- CITY OF WILLOUGHBY				335	1	2	2	1	1	1	1	1	545	1	2	3	2	3	1	1

MATERIALS:

CAST IRON PIPE AND FITTINGS

ALL WATER MAINS SHALL BE AWWA CLASS 150 CAST IRON CEMENT LINED PIPE AND SHALL HAVE BELL AND SPIGOT ENDS. THE PIPE SHALL BE COATED ON THE OUTSIDE WITH A COAL TAR DIP, ASA SPECIFICATION A-21.5. THE INTERIOR OF THE PIPE SHALL BE COATED WITH A CEMENT MORTAR LINING MEETING THE REQUIREMENTS OF ASA SPECIFICATION A-21.4. ALL TEES, BENDS, AND OTHER FITTINGS FURNISHED SHALL BE OF THE SAME TYPE AND MANUFACTURE AS THE PIPE FURNISHED UNDER THIS CONTRACT.

JOINTS:

ALL PIPE, FITTINGS, VALVES AND HYDRANTS SHALL BE LEAD CALKED JOINTS, OR JAMES B. CLOW AND SONS "BELL TITE" JOINTS OR APPROVED EQUAL.

WATER VALVES:

ALL VALVES SHALL CONFORM TO AWWA SPECIFICATIONS NO. C-500 FOR WATERWORKS GATE VALVES. THEY SHALL BE OF THE TYPE KNOWN AS IRON BODY, BRONZE MOUNTED, DOUBLE DISC, HOCK AND WEDGE, PARALLEL SEAT WITH INSIDE STATIONARY STEM, DESIGNED SO THAT THE DISC SHALL BE FORCED TO THEIR SEATS AFTER THE VALVE IS CLOSED. GATE VALVES SHALL HAVE HUB ENDS. WATER VALVES SHALL BE KENNEDY OR APPROVED EQUAL.

HYDRANT:

THE FIRE HYDRANT LOCATED AT STA. 9+00 ON MAPLE GROVE RD. WILL BE FURNISHED BY THE CITY OF WILLOUGHBY AT THE TIME OF CONSTRUCTION AND INSTALLED BY THE CONTRACTOR.

CHLORINATION:

THE NEW WATER LINES SHALL BE CHLORINATED WITH DRY CHLORINE AT THE RATE OF 2.5 POUNDS PER 100 FEET OF PIPE.
PAYMENT FOR THE CHLORINATION SHALL BE INCLUDED IN THE BID PRICE FOR NEW WATER LINES.

CONSTRUCTION PROCEDURE:

THE EXISTING 12" WATER MAIN ON S.R. 91 BETWEEN THE RESERVOIR (WATER TOWER) AND S.R. 84 SHALL REMAIN IN SERVICE UNTIL THE FILL IS IN PLACE AND THE NEW WATER LINE IS INSTALLED WITH THE EXCEPTION OF THE CONNECTIONS TO THE EXISTING WATER LINE AT STA. 132+55 AND STA. 135+92. IN ORDER THAT THE RESERVOIR SHUTDOWN PERIOD CAN BE HELD TO AN ABSOLUTE MINIMUM, THE CONTRACTOR SHALL MAKE THE CONNECTIONS TO THE EXISTING WATER LINE AFTER ALL OTHER POSSIBLE WATER WORK IS COMPLETED.

A RESERVOIR SHUTDOWN PERIOD OF ONE DAY (24 HOURS) WILL BE ALLOWED FOR EACH CONNECTION AND ONE DAY (24 HOURS) WILL BE ALLOWED FOR TESTING AND CLEARING THE LINE. THE CONTRACTOR SHALL NOTIFY THE CITY OF WILLOUGHBY WATER DEPT. ONE WEEK IN ADVANCE OF ANY SHUTDOWN PERIOD AND SHALL CO-OPERATE WITH THE CITY OF WILLOUGHBY WATER DEPT. SO THAT THE RESERVOIR WILL BE LEFT FULL OF WATER AT THE TIME OF SHUTDOWN.