## ROCHESTER PURE WATERS DISTRICT (RPWD) NOTES

- CONTRACTOR IS TO CONSTRUCT ALL SEWER APPURTENANCES (SEWER MAIN, LATERALS, CATCH BASINS AND MANHOLES) IN CONFORMANCE WITH THE SPECIFICATIONS OF THE RPWD
- CONTRACTOR IS TO TAKE APPROPRIATE MEASURES TO PREVENT DIRT, DEBRIS AND CONSTRUCTION MATERIALS FROM ENTERING SEWER APPURTENANCES (SEWER MAIN, LATERALS, CATCH BASINS AND MANHOLES) DURING CONSTRUCTION OF PROJECT.
- RPWD WILL LOCATE AND MARK EXISTING LATERALS AT THE REQUEST OF THE CONTRACTOR. THE RPWD IS ONLY ABLE TO MARK THE WYE LOCATION AT THE MAIN SEWER, AND CANNOT VERIFY THE LOCATION OF THE LATERAL BACK TO THE R.O.W. CONTRACTOR MAY REQUEST A LATERAL STAKEOUT BY CONTACTING MONROE COUNTY PURE WATERS MAPS AND RECORDS ROOM AT 1-585-753-7367
- RPWD IS TO BE NOTIFIED IMMEDIATELY INTITHE EVENT OF ANY DAMAGE TO SEWER APPURTENANCES BY CALLING 1-88-753-7351. ALL REPAIRS ARE TO BE PERFORMED IN THE PRESENCE OF A REPRESENTATIVE OF RPWD, AND ARE TO BE MADE AS PER RPWD SPECIFICATIONS.
- IN THE EVENT THAT EXISTING SEWER MAINS OR LATERAL PIPES ARE BROKEN DURING EXCAVATION, ANY AND ALL REPAIRS MUST BE EXTENDED LINEARLY. INTRODUCING NEW BENDS IN PIPE WILL NOT BE PERMITTED. ALL 5 INCH DIAMETER LATERAL PIPE MUST BE REPAIRED USING 5 INCH SERVICE WEIGHT CAST IRON PIPE AND TWO FERNCOS. CONTRACTOR MAY BE PERMITTED TO USE OAKUM AND EPOXY FORTAR TO CONNECT NEW PVC PIPE TO AND EXISTING BELL THAT IS IN GOOD CONDITION
- 6. STONE BEDDING MATERIAL USED FOR SEWER MAIN AND LATERAL PIPE REPAIRS IS TO BE CLASS B CONSISTING OF #1 AND #2 WASHED STONE AT A MINIMUM OF 6 INCH DEPTH
- CONTRACTOR IS TO REPLACE ALL EXISTING SEWER MANHOLE FRAMES AND COVERS (AS REQUIRED) WITH NEW FRAMES AND COVERS FURNISHED BY MONROE COUNTY PURE WATERS. ARRANGEMENTS CAN BE MADE TO OBTAIN NEW FRAMES AND COVERS BY CALLING THE MONROE COUNTY PURE WATERS STOCKROOM AT 1-585-753-7521 AT LEAST TWO (2) WORKING DAYS IN ADVANCE. CONTRACTOR IS TO ADD/REMOVE ADDITIONAL COURSES OF BRICK/BLOCK AS/IF REQUIRED TO RETROFIT NEW FRAMES ONTO EXISTING MANHOLE STRUCTURES AT THE REQUIRED FINISHED GRADE
- WHERE AND EXISTING CATCH BASIN IS TO BE REMOVED, ALL PORTIONS OF THE CATCH BASIN WALLS AND FOUNDATION ARE TO BE REMOVED AND THE EXISTING LATERAL ABANDONED AS PER RPWD
- ALL REMOVED SEWER MANHOLE FRAMES AND COVERS AND CATCH BASIN GRATES, ACCESS COVERS, AND CAPSTONES ARE THE PROPERTY OF THE RPWD. RETURN ITEMS TO THE MONROE COUNTRY PURE WATERS FLEET CENTER, 145 PAUL ROAD, ROCHESTER, NEW YORK, MONDAY THROUGH FRIDAY BETWEEN 8:00 AM AND 3:00 PM AT NO COST TO THE OWNER.

### **GENERAL WATER MAIN NOTES**

- THE COST OF PROVIDING ANY AND ALL ADDITIONAL TEMPORARY PIPES, VALVES, PLUGS, TAPS, CORPORATION STOPS, CURB STOPS AND BOXES, BLOW-OFF PIPES AND OTHER FITTINGS NECESSARY (JUNLESS OTHERWISE NOTED) FOR THE CONSTRUCTION OF THE NEW WARTER MAIN OR FOR PROVIDING CONTINUOUS DOMESTIC AND FIRE SERVICE SHALL BE INCLUDED
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING ALL EXTRANEOUS MATERIALS, TOOLS AND EQUIPMENT, INCLUDING SPECIAL CUTTING DEVICES NECESSARY TO DO WATER WORK CONTAINED
- THE CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING NEAR EXISTING WATER MAINS
- THE LOCATIONS, SIZES AND ELEVATIONS OF EXISTING UTILITIES ARE BASED ON INFORMATION COMPILED BY THE VARIOUS UTILITIES, WITH FIELD CHECKING WHERE NECESSARY AND POSSIBLE. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND IS APPROXIMATE. BEFORE
- THE APPROXIMATE LOCATION OF THE PROPOSED WATER MAIN IS INDICATED ON THE PLANS. BUT THE ACTUAL LOCATION WILL BE GOVERNED BY THE ACTUAL LOCATION OF THE UNDERGROUND UTILITIES OR OTHER CONTROLLING FACTORS AS DETERMINED BY THE ENGINEER DURING CONSTRUCTION.
- HRUST BLOCKS SHALL BE AS REQUIRED BY SYSTEM OPERATOR.
- APPROVED PLANS OF PROPOSED FACILITIES WITHIN OR ADJACENT TO THE ROW SHALL NOT BE CHANGED WITHOUT THE PRIOR APPROVAL BY THE PROJECT MANAGER

- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO SOLIDLY BRACE THE EXISTING WATER MAIN TO INSURE NO HORIZONTAL OR VERTICAL MOVEMENT OF THE EXISTING WATER MAIN WHILE THE ADJACENT NEW WATER MAIN IS BEING INSTALLED (THE COST OF ADEQUATELY
- BELOW THE PIPE INVERT. WHENEVER AN OPEN PIPE END IS UNATTENDED IT SHALL BE
- 14 THE CONTRACTOR SHALL REMOVE WATER MAINS SERVICES AND APPURTENANCES TO BE ABANDONED WHEN THEY ARE WITHIN THE LIMITS OF PAVEMENT RECONSTRUCTION EXCAVATIONS OR WITHIN TRENCH EXCAVATION LIMITS FOR NEW WATER MAIN OR SEWER CONSTRUCTION. THE COST TO
- DISINFECTION / SAMPLING POINT LOCATIONS DEPICTED ON THE PLANS REPRESENT AN APPROXIMATE LOCATION, DURING CONSTRUCTION DISINFECTION / SAMPLING POINT LOCATIONS SHALL BE AS CLOSE TO THE FINAL CONNECTION POINT AS POSSIBLE TO MINIMIZE THE AMOUNT OF PIPE AND FITTINGS REQUIRING

### WATER MAIN AND SERVICE NOTES

- ALL NEW WATER MAINS SHALL BE INSTALLED WITH A MINIMUM COVER DEPTH FROM PROPOSED INISHED GRADE OF 4.5 FEET FOR DOMESTIC MAINS AND 5.0 FEET FOR HOLLY MAINS
- FOR EXISTING VALVES AND CURB STOPS THAT ARE LOCATED ON WATER MAINS AND WATER SERVICES WHICH ARE TO BE RETAINED, THE EXISTING VALVE AND CURB BOXES SHALL BE ADJUSTED TO GRADE OR REPLACED AS SHOWN ON THE PLANS OR DIRECTED BY THE PROJECT MANAGER.
- ALL GATE VALVES REQUIRE MECHANICAL JOINT RESTRAINT WITHIN 18-FEET OF THE VALVE
- ALL NEW DUCTILE IRON WATER MAIN SHALL BE INSTALLED WITH POLYETHYLENE ENCASEMENT
- 5. ALL SERVICE TAPS ON PVC/PVCO WATER MAIN REQUIRE SERVICE SADDLES
- STAINLESS STEEL INSERTS ARE REQUIRED ON ALL POLYETHYLENE (PE) SERVICE FITTINGS
- TRACER WIRE IS REQUIRED ON ALL BURIED NON- METALLIC WATER MAINS AND WATER SERVICES

# ROCHESTER WATER BUREAU WATER MAIN NOTES

- A HYDRANT MARKING POST, PAID AS ITEM \$917.06 SHALL BE INSTALLED AT EACH NEW AND RELOCATED HYDRANT LOCATION.
- SEE THE WATER SERVICE TABLE FOR THE SIZE, TYPE AND DISPOSITIONS OF ALL EXISTING SERVICES WITHIN THE LIMITS OF WORK FOR THIS PROJECT. ALL SERVICES HAVE BEEN REFERENCED FROM THE CENTERLINE OF IMPROVEMENTS STATION AS SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE WATER SERVICES AND THE DISPOSITION OF THE WATER SERVICES BEFORE BEGINNING ABANDOMMENT OR RENEWAL. THE CONSEQUENCES OF THE CONTRACTOR'S FAILURE TO DO THIS SHALL BE BORNE SOLELY BY THE CONTRACTOR. ALL WATER SERVICE WORK SHALL BE COORDINATED WITH THE ROCHESTER WATER BUREAU.
- NO SEPARATE PAYMENT WILL BE MADE FOR TEMPORARY SHEETING OF EXCAVATIONS FOR WATER MAIN WORK IN THIS PROJECT. THE COST OF PROVIDING ALL NECESSARY TRENCH PROTECTION IN ACCORDANCE WITH THE PROVISIONS OF SECTION R206 OF THE CITY OF ROCHESTER STANDARD CONSTRUCTION CONTRACT DOCUMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 206.04.
- ALL CUT AND OPEN PIPE ENDS ON ABANDONED WATER MAIN AND HYDRANT BRANCH PIPES ARE TO BE PLUGGED WITH CONCRETE. CONCRETE PLUG SHALL COMPLETELY FILL. THE ABANDONED PIPE TO A MINIMUM DEPTH OF 1 FOOT. ALL ABANDONED WATER VALVES AND CURB STOPS SHALL BE PERMANENTLY CLOSED AND ARE TO BE LEFT IN THE SHUT POSITION. THE COST OF WHICH IS TO BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS UNDER SECTIONS \$907, \$908 AND \$917
- WHEN INSTALLING FIRE HYDRANTS. SHOULD GROUND WATER BE ENCOUNTERED WITHIN 7 FEET OF THE FINISHED GRADE, FIRE HYDRANT WEEP HOLES ARE TO BE PLUGGED, AND THE WATER BURFAU NOTIFIED IN WRITING THAT THE WEEP HOLES HAVE BEEN PLUGGED.
- NO PAYMENT WILL BE MADE FOR ABANDONING EXISTING RUN AND NOT-IN-USE SERVICES THAT ARE OFF OF WATER MAINS TO BE ABANDONED. THE CONTRACTOR WILL NOT BE REQUIRED TO EXCAVATE AND CLOSE THE EXISTING CORPORATION STOP AND DISCONNECT THE SERVICE PIPE. THE CURB STOP SHALL BE CLOSED UPON ABANDONMENT AND THE CURB BOX REMOVED. PAYMENT FOR CURB BOX REMOVAL SHALL BE UNDER ITEM 203.02 OR 206.04
- WHEN WATER METERS ARE TO BE INSTALLED THE CURB STOP SHALL BE LOCATED BETWEEN THE PROPOSED WATER METER AND THE WATER MAIN, A MINIMUM OF 2 FEET FROM THE WATER METER CROCK.
- THE ROCHESTER WATER BUREAU REQUIRES A HYDRANT USE PERMIT BE OBTAINED BY THE CONTRACTOR PRIOR TO USING ANY HYDRANT AS A SOURCE OF WATER SUPPLY. THE PERMIT REQUIRES THE USE OF A WATER METER AND BACKFLOW PREVENTER. THE WATER BUREAU WILL SUPPLY A HYDRANT WRENCH, WATER METER, METER SETTING AND BACKFLOW PREVENTER WITH THE PERMIT. THE PERMIT FEE INCLUDES A REFUNDABLE DEPOSIT FOR THE USE OF THE HYDRANT WRENCH, WATER METER, METER SETTING AND BACKFLOW PREVENTER.
- 10. ALL EXISTING WATER VALVE BOXES AND CURB BOXES THAT ARE ABANDONED WITH REPLACEMENT OF THE WATER MAIN ARE TO BE REMOVED. THE COST OF WHICH IS TO BE INCLUDED IN THE APPROPRIATE UNIT PRICE BID FOR ITEMS 203.02, R206.04, OR S917.05, THE CONTRACTOR SHALL LEAVE ABANDONED VALVES IN THE SHUT POSITION. THIS INCLUDES VALVES ON HYDRANT BRANCHES PAYMENT FOR VALVE BOX REMOVAL UNDER ITEM \$909.05 WILL BE MADE ONLY WHEN THE VALVE BOX IS LOCATED OUTSIDE OF AREAS OF PAVEMENT OR SURFACE RECONSTRUCTION OR TRENCH AND CULVERT EXCAVATIONS.
- ALL EXISTING WATER VALVE BOXES WITHIN THE LIMITS OF PAVEMENT RECONSTRUCTION ON EXISTING MAINS TO REMAIN IN SERVICE SHALL BE REPLACED UNLESS OTHERWISE NOTED. PAYMENT SHALL BE UNDER ITEM \$909.02. THE CONTRACTOR SHALL TAKE CARE TO PREVENT DEBRIS FROM ENTERING THE VALVE BOX.

- THE WATER MAIN AND TEMPORARY BYPASS PIPE SHALL BE DISINFECTED EQUAL TO AWWA STANDARD FOR DISINFECTING WATER MAINS, DESIGNATION C651, BY USING THE CONTINUOUS FEED METHOD. FOLLOWING DISINECTION, THE WATER MAIN AND BYPASS PIPE SHALL BE FLUSHED UNTIL THE CHLORINE CONCENTRATION IN THE WATER LEAVING THE MAIN IS NO HIGHER THAN THAT GENERALLY PREVAILING IN THE SYSTEM. THE INTERIOR OF ALL WATER MAIN PIPE, VALUES, FITTINGS AND SERVICES FOUR (4) INCHES AND LARGER INCLUDING NEW HYDRANT BRANCHES CONNECTED TO EXISTING WATER MAINS, NOT RECEIVING 24-HOUR CHLORINE DISINFECTION CONTACT TIME MUST BE SPRAY OR SWAB DISINFECTED WITH A MINIMUM 1% - 5% SOLUTION OF CHLORINE NO MORE THAN 30-MINUTES PRIOR TO INSTALLATION. ADDITIONALLY, THE EXTERIOR SURFACES OF EXISTING PIPE AND FITTINGS THAT NEW PIPE AND FITTINGS WILL BE CONNECTED TO MUST BE THOROUGHLY CLEANED AND DISINFECTED. THE MAXIMUM DISTANCE BETWEEN DISINFECTION/SAMPLING TAPS ON NEW WATER MAIN AND BYPASS PIPE SHALL DISINFECTED. THE MAXIMUM DISTANCE BETWEEN DISINFECTION/SAMPLING TAPS ON NEW WATER MAIN AND BYPASS PIPE SHALL
  BE 1,000 FEET. THE SAMPLING POINT(S) MUST BE DECONTAMINATED BY FLAMING. FIRE HYDRANTS ARE NOT ACCEPTABLE
  SAMPLING POINTS. THE MONROE COUNTY DEPARTMENT OF PUBLIC HEALTH MUST RECEIVE AT LEAST 48-HOUR ADVANCE
  NOTIFICATION REQUESTING SAMPLING SERVICES. THE CONTRACTOR SHALL CALL 585-753-5057 TO ARRANGE FOR SAMPLING
  SERVICES AND IS RESPONSIBLE FOR PAYING ALL MCDPH SAMPLING FEES. SAMPLING WILL NOT BE PREFORMED PRIOR TO
  RECEIPT FROM A NEW YORK STATE LICENSED OR REGISTERED DESIGN PROFESSIONAL (ENGINEER, ARCHITECT OR LAND
  SURVEYOR WITH A SPECIAL EXEMPTION UNDER SECTION 7208(n) OF THE EDUCATION LAW) CERTIFYING THAT THE WATER SUPPLY
  IMPROVEMENTS, TESTING AND DISINFECTION PROCEDURES WERE COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS, REPORTS, SPECIFICATIONS AND ANY APPROVED AMENDMENTS. THE DEPARTMENT WILL COLLECT SAMPLES FOR FREE CHLORINE RESIDUAL, TOTAL COLIFORM, ESCHERICHIA COLI (E. COLI) AND TURBIDITY. THE WATER MAIN AND BYPASS PIPE SHALL NOT BE PLACED INTO SERVICE UNTIL SO AUTHORIZED BY THE MONROE COUNTY DEPARTMENT OF HEALTH.
- 2. UNLESS OTHERWISE NOTED OR SHOWN ON THE APPROVED PLANS. THE MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER PIPE LINES SHALL BE 18-INCHES MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. ONE FULL STANDARD LAYING LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. IN ADDITION, WHEN THE WATER MAIN PASSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECTED FILL) SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING OF THE SEWER ON THE WATER MAIN. UNLESS OTHERWISE NOTED OR SHOWN ON THE APPROVED PLANS. THE MINIMUM HORIZONTAL SEPARATION BETWEEN PARALLEL WATER MAINS AND SEWER PIPES (INCLUDING MANHOLES AN VAULTS) SHALL BE 10-FEET MEASURED FROM THE OUTSIDE OF THE PIPES,
- 3. WHEN INSTALLING FIR HYDRANTS, SHOULD GROUND WATER BE ENCOUNTERED WITHIN SEVEN (7) FEET OF FINISHED GRADE, FIRE HYDRANT WEEP HOLES (DRAINS) SHALL BE PLUGGED.
- THE NEW WATER MAIN SHALL BE PRESSURE/LEAKAGE TESTED IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE AWWA STANDARD C600 (LATEST REVISION) OF IN ACCORDANCE WITH MORE STRINGENT REQUIREMENTS IMPOSED BY THE SUPPLIER OF WATER FOR CITY OF ROCHESTER WATER MAINS PRESSURE/ FAKAGE TESTING SHALL BE PREFORMED IN ACCORDANCE WITH SUBSECTION 3.05 OF CITY OF ROCHESTER WATER BUREAU SPECIFICATION \$900 - GENERAL WATER

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IN THE PRICE BID FOR WATER MAIN ITEMS.

WHICH ARE TO BE RETAINED IN SERVICE NO VIBRATORY EQUIPMENT IS TO BE USED OVER OR ADJACENT (WITHIN A 5 FOOT HORIZONTAL DISTANCE) OF EXISTING WATER MAINS.

BEGINNING ANY EXCAVATION OR BLASTING, CALL U.F.P.O. 1-800-962-7962

ALL BENDS, TEES, REDUCERS, CAPS AND PLUGS MUST HAVE THRUST BLOCKS. CONCRETE STRENGTH FOR

- MAINTAIN DRAINAGE THROUGHOUT THE PERIOD OF CONSTRUCTION
- MAINTAIN SAFE AND CONTINUOUS THROUGH TRAFFIC, INGRESS AND EGRESS FOR ADJACENT OWNER DRIVEWAYS, SERVICE ROADS AND PUBLIC STREETS THROUGHOUT THE PERIOD OF CONSTRUCTION.
- 10. LOCATE, FLAG AND PRESERVE SURVEY MONUMENTS. SEE LOCATION AS SHOWN ON PLANS, OR INQUIRE AT THE OFFICE OF GEODETIC SURVEYS- COUNTY DEPARTMENT OF ENGINEERING.
- RACING THE EXISTING WATER MAIN SHALL BE INCLUDED IN THE PRICE BID FOR EXCAVATION
- 12. APPROPRIATE MEASURES SHALL BE TAKEN TO PREVENT DIRT, DEBRIS AND GROUND WATER FROM CONTAMINATING THE WATER MAIN. THE GROUND WATER LEVEL SHALL NEVER BE LESS THAN 1 FT COVERED IN A WATER TIGHT MANNER
- 13. THE MAXIMUM DISTANCE BETWEEN DISINFECTION/SAMPLING TAPS ON NEW WATER MAIN PIPE IS
- REMOVE PORTIONS OF WATER MAINS AND PLUG ENDS AND TO REMOVE SERVICES AND APPURTENANCES SHALL BE INCLUDED IN THE PRICE BID FOR EXCAVATION.