GENERAL NOTES FOR WATER MAIN REPLACEMENT

- 1. PROVIDE PRECONSTRUCTION DVD(S) TO THE ENGINEER FOR THE VILLAGE OF BENSENVILLE PRIOR TO START OF CONSTRUCTION.
- 2. CONTACT THE FOLLOWING PEOPLE AT LEAST 72 HOURS BEFORE CONSTRUCTION: MR. JOSEPH M. CARACCI, DIRECTOR OF PUBLIC WORKS FOR THE VILLAGE OF BENSENVILLE AT (630) 350-3435.
- 3. WATER MAINS TO BE INSTALLED WITH A MINIMUM OF 5'-6" OF COVER UNLESS OTHERWISE SHOWN ON DRAWINGS.
- 4. THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES SHOWN ON THE DRAWINGS ARE BASED ON INFORMATION PROVIDED BY OWNERS OF THE FACILITIES AND ARE NOT NECESSARILY COMPLETE OR ACCURATE.
- 5. PROTECT EXISTING UNDERGROUND UTILITIES AND BUILDING SERVICE LINES FROM DAMAGE. MAKE EXPLORATIONS AS NECESSARY TO DETERMINE THE EXACT LOCATIONS OF EXISTING UTILITIES AND SERVICE LINES. EXERCISE CARE DURING THE PROGRESS OF WORK TO PREVENT DAMAGE TO EXISTING UNDERGROUND FACILITIES.
- 6. COORDINATE WITH UTILITY COMPANIES TO SUPPORT, PROTECT, OR REMOVE AND REPLACE ALL POLES OR POLE ANCHORS AFFECTED BY WATER WAIN CONSTRUCTION, EVEN WHERE SUPPORT IS NOT INDICATED ON THE DRAWINGS. COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF WATER MAIN CONSTRUCTION.
- 7. PROVIDE TRAFFIC CONTROL AS REQUIRED IN ACCORDANCE WITH THE STATE OF ILLINOIS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONTSTRUCTION" AND "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS"; AND LOCAL GOVERNMENTAL AUTHORITY DURING ALL PHASES OF CONSTRUCTION.
- 8. IF TRENCH DEWATERING IS REQUIRED, PROTECT ADJOINING PROPERTIES AND HOSE DISCHARGE LOCATIONS FROM EROSION, USE SILT BAGS ON DISCHARGE HOSES FOR SEDIMENTATION CONTROL,
- 9. OVER-EXCAVATE UNSUITABLE SOIL ENCOUNTERED AT THE BOTTOM OF THE PIPE, MANHOLE OR VAULT; AND REPLACE WITH AGGREGATE SUBGRADE IMPROVEMENT AS DETERMINED BY THE ENGINEER.
- 10. DO NOT STORE MATERIALS, STRUCTURES, OR MACHINES WHERE THEY WILL OBSTRUCT STREET OR DRIVEWAY SIGHTLINES.
- 11. RE-ESTABLISH EXISTING DRAINAGE PATTERNS IMMEDIATELY AFTER BACKFILLING AND DURING FINAL GRADING.
- 12. ALL DUCTILE IRON PIPE, FITTINGS, VALVES, FIRE HYDRANTS AND SERVICE CONNECTIONS SHALL BE WRAPPED WITH
- 13. COVER ALL NEW FIRE HYDRANTS WITH BLACK PLASTIC BAGS AFTER INSTALLATION AND UNTIL NEW WATER MAIN IS IN
- 14. NOTIFY THE ENGINEER OF ANY CONFLICTS BETWEEN THE PROPOSED WATER MAIN OR SANITARY SEWER LOCATIONS AND EXISTING UTILITY FACILITIES AT LEAST 3 WORKING DAYS PRIOR TO THE INSTALLATION OF THE WATER MAINS OR SANITARY SEWERS.
- 15. CONTRACTORS TO NOTIFY RESIDENTS OR BUSINESSES AT LEAST 48 HOURS PRIOR TO ANY DISRUPTION OR SHUTDOWN OF WATER SERVICE.
- 16. EXISTING VALVES ARE TO BE RESTRAINED OR BRACED AS REQUIRED PRIOR TO CLOSING VALVES FOR CONNECTION OF PROPOSED WATER MAINS TO EXISTING WATER MAINS OR FOR ABANDONMENT OF EXISTING WATER MAINS.
- 17. AT LOCATIONS WHERE WATER MAIN QUALITY PIPE IS USED TO REPLACE EXISTING SANITARY SEWER, APPLY GREEN TAPE OVER PIPE SPECIFICATION LABELS ALONG THE ENTIRE LENGTH OF EACH SECTION OF REPLACEMENT SEWER PIPE.
- 18. INSTALL NEW WATER MAINS BENEATH EXISTING WATER MAINS AND WATER SERVICE PIPES, UNLESS OTHERWISE NOTED
- 19. WATER MAIN PIPE SHALL BE:
 - A. OPEN-CUT TRENCHES:
 - DUCTILE IRON PIPE COMPLYING WITH A.N.S.I. A21.51, THICKNESS CLASS 52: WITH JOINTS COMPLYING WITH A.N.S.I. A 21.11; AND WITH CEMENT LINING COMPLYING WITH A.N.S.I. A21.4/A.W.W.A. C104, STANDARD THICKNESS.

- 21. GRANULAR PIPE BEDDING AND COVERING MATERIAL SHALL CONFORM TO THE FOLLOWING:
- A. PROVIDE WELL GRADED WASHED MIXTURE OF GRAVEL OR CRUSHED STONE AGGREGATE FREE OF CLAY, LOAM, DIRT, CALCAREOUS OR OTHER FOREIGN MATTER CONFORMING TO I.D.O.T. "STANDARD SPECIFICATION S" GRADATION CA-11 OR THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS. WITH THE FOLLOWING GRADATION:

SIEVE SIZE	PERCE	NT	PASSING
1 INCH	100%		
3/4 INCH	84%	_	100%
1/2 INCH .	30%	-	60%
NO. 4	0	-	12%
NO. 16	Ω	_	6%

- B. FOR FLEXIBLE THERMOPLASTIC PIPE: COMPLY WITH A.S.T.M. D2321, CLASS I. OR II AS MODIFIED BELOW:
 - 1. EXCLUDE SHARP ANGULAR GRANULAR MATERIALS.
 - 2. LIMIT MAXIMUM PARTICLE SIZE TO 1/2 INCH.
 - 3. DO NOT USE CLASS II MATERIALS IN WET TRENCH CONDITIONS.
 - C. FOR RIGID PIPES COMPLY WITH A.S.T.M. C12, BEDDING CLASS B.
- 22. WATER SERVICES (1 1/2" MINIMUM SIZE) TO BE INSTALLED AFTER NEW WATER MAINS HAVE BEEN TESTED DISINFECTED, FLUSHED AND ACCEPTED FOR USE BY THE VILLAGE OF BENSENVILLE, LOCATIONS OF WATER SERVICES TO BE CONFIRMED AT TIME OF CONSTRUCTION.
- 23. ABANDON EXISTING WATER MAINS, FIRE HYDRANTS, VALVES, VALVE VAULTS AND BOXES, AND SERVICE LINES AFTER ALL NEW WATER MAIN HAS BEEN INSTALLED, TESTED, DISINFECTED, AND ACCEPTED FOR USE BY THE VILLAGE OF BENSENVILLE AND AFTER ALL WATER SERVICES HAVE BEEN CONNECTED TO THE NEW WATER MAINS. FIRE HYDRANTS, VALVE BOXES, VALVE VAULT FRAMES AND COVERS REMOVED DURING WATER MAIN ABANDONMENT WORK SHALL BE DELIVERED TO THE VILLAGE OF BENSENVILLE PUBLIC WORKS GARAGE AT 717 EAST JEFFERSON STREET.
- 24. WHERE PLUGS OR CAPS ARE CALLED FOR ON THE PLANS, CONTRACTOR MAY USE PLUG OR CAP FITTINGS, AT THE CONTRACTOR'S OPTION, DEPENDING ON WHETHER OR NOT A BELL END EXISTS AT THE END OF THE WATER MAIN PIPE TO BE PLUGGED/CAPPED. PLUGS/CAPS SHALL INCLUDE CONCRETE THRUST BLOCKS AS REQUIRED.
- 25. WHERE A LINE STOP, PLUG/CAP AND CONCRETE THRUST BLOCK IS CALLED FOR ON THE PLANS, CONTRACTOR SHALL CUT A SHORT SECTION OF WATER MAIN OUT OF THE WATER MAIN TO BE IMMEDIATELY ABANDONED AND INSTALL THE CONCRETE THRUST BLOCK AGAINST THE PLUG/CAP AND THE CUT END OF THE WATER MAIN TO BE IMMEDIATELY ABANDONED.
- 26. DETERMINE LOCATION, ELEVATION AND SIZE OF EXISTING WATER MAINS RELATIVE TO PROPOSED WATER MAIN PRIOR TO INSTALLATION OF CASING PIPES, CONNECT PROPOSED WATER MAINS TO EXISTING WATER MAINS WITH FITTINGS AS REQUIRED. JOINT DEFLECTION FOR PIPE AND FITTINGS SHALL NOT EXCEED 66% OF MANUFACTURER'S
- 27. CONTRACTOR SHALL INSTALL WATER MAIN PRIOR TO UTILITY COMPANIES INSTALLING NEW OR RELOCATED UTILITIES PARALLEL TO WATER MAIN.

RAWN - UKB REVISED - TO GO 38 V(EW 1-03) CHECKED - LDH REVISED -REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** GENERAL NOTES

TO STA.

SECTION CCUNTY CONTRACT NO

FOR WATER MAIN REPLACEMENT PROJECT NO: 120058 STA.