GENERAL NOTES FOR VILLAGE OF ITASCA WATER AND SEWER REPLACEMENT

1. PROVIDE PRECONSTRUCTION DVD(S) TO THE VILLAGE OF ITASCA PRIOR TO THE START OF CONSTRUCTION.

2. CONTACT THE FOLLOWING PEOPLE AT LEAST 72 HOURS BEFORE CONSTRUCTION:
   MR. ROSS HITCHCOCK, DIRECTOR OF PUBLIC WORKS FOR THE VILLAGE OF ITASCA AT (630) 773-2455.
   MR. GLEN SULLIVAN WATER AND WASTEWATER SUPERINTENDENT FOR THE VILLAGE OF ITASCA AT (630) 228-5660.
   MR. MICHAEL SUBERS, UTILITIES SUPERINTENDENT FOR THE VILLAGE OF ITASCA AT (630) 228-5664.

3. WATER MAINS TO BE INSTALLED WITH A MINIMUM OF 6'-0" 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, I.D.O.T. SURVEYS, S.U.E. LOCATES, AND I.D.O.T.'S CONSULTING ENGINEER, 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 AND PROTECT POLES OR POLE ANCHORS AFFECTED BY WATER MAIN AND SANITARY SEWER CONSTRUCTION, EVEN WHERE SUPPORT IS NOT INDICATED ON THE DRAWINGS. COST OF THIS WORK SHALL BE INCIDENTAL TO 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 CONSTRUCTION" 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 GRANULAR MATERIAL IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND DETAIL IN DRAWINGS.

10. REPLACE EXISTING DRAIN TILES DISTURBED DURING TRENCHING OPERATIONS WITH SAME SIZE P.V.C. (SDR 26) PLASTIC PIPE AND NON-SHEAR, FLEXIBLE, STAINLESS STEEL BANDED COUPLINGS.

11. DO NOT STORE MATERIALS, STRUCTURES, OR MACHINES WHERE THEY WILL OBSTRUCT STREET OR DRIVEWAY SIGHTLINES.

12. RE-ESTABLISH EXISTING DRAINAGE PATTERNS IMMEDIATELY AFTER BACKFILLING AND DURING FINAL GRADING.

13. COVER ALL NEW FIRE HYDRANTS WITH BLACK PLASTIC BAGS AFTER INSTALLATION AND UNTIL NEW WATER MAIN IS IN SERVICE.

14. NOTIFY THE VILLAGE OF ITASCA OR BAXTER & WOODMAN, INC. 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. CONTRACTOR SHALL COORDINATE AND SCHEDULE EACH REQUIRED WATER MAIN SHUTDOWN AND INTERRUPTION OF WATER SERVICE WITH THE VILLAGE OF ITASCA AT LEAST THREE BUSINESS DAYS IN ADVANCE OF THE REQUIRED SHUTDOWN. THE VILLAGE OF ITASCA WILL WORK WITH THE CONTRACTOR TO DETERMINE THE LIMITS OF AND DURATION OF EACH SHUTDOWN. THE CONTRACTOR SHALL COMPLETE ALL WORK AT EACH SPECIFIC SITE REQUIRING A WATER MAIN SHUTDOWN WITHIN 4 HOURS. THE VILLAGE OF ITASCA ANTICIPATES THAT NIGHT TIME OR OFF-HOURS SHUTDOWNS WILL NOT BE REQUIRED. CONTRACTOR SHALL 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, FOR WATER MAIN RELOCATIONS, OR FOR ABANDONMENT OF EXISTING WATER MAINS.

17. AT LOCATIONS WHERE WATER MAIN QUALITY PIPE IS USED FOR PROPOSED STORM SEWERS OR TO REPLACE EXISTING SEWERS, APPLY GREEN TAPE OVER PIPE SPECIFICATION LABELS ALONG THE ENTIRE LENGTH OF EACH SECTION OF NEW SEWER PIPE.

18. INSTALL NEW WATER MAINS BENEATH EXISTING WATER MAINS AND WATER SERVICE PIPES, UNLESS OTHERWISE NOTED ON DRAWINGS.

19. WATER MAIN PIPE SHALL BE:

    A. OPEN-CUT TRENCHES:

       1. 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.

    B. DIRECTIONALLY DRILLED INSTALLATION:

       1. FUSIBLE P.V.C. PLASTIC PIPE CONFORMING TO AWWA C900 WITH AN SDR OF 18, A COMPOUND FORMULATION IN ACCORDANCE WITH PPI TR-2/2006 AND BLUE COLOR.

       2. PVC PIPE CONFORMING TO AWWA C900 CLASS 235 PRESSURE PIPE WITH AN SDR OF 18, RESTRAINED JOINTS WITH RESTRAINING GROOVES, BUILT-IN SEALING GASKETS, AND BEVELED EDGES, AND BLUE COLOR.

       3. H.D.P.E. PIPE CONFORMING TO AWWA C906 AND ASTM D3350; WITH MINIMUM SDR11, D.I.O.D. PIPE SIZE, AND BLUE OR BLUE STRIPED BLACK COLOR.

20. ALL DUCTILE IRON PIPE, FITTINGS, VALVES, FIRE HYDRANTS, AND SERVICE CONNECTIONS WITHIN 3 FEET OF CORPORATION STOPS SHALL BE WRAPPED WITH POLYETHYLENE SHEETING OR TUBES.

21. GRANULAR PIPE BEDDING AND COVERING MATERIAL SHALL CONFORM TO THE FOLLOWING:

    A. PROVIDE WELL GRADED, WASHED, GRAVEL OR CRUSHED STONE FREE OF CLAY, LOAM, DIRT, CALCAREOUS OR OTHER FOREIGN MATTER CONFORMING TO I.D.O.T. "STANDARD SPECIFICATIONS" GRADATION CA-11 OR THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS, WITH THE FOLLOWING GRADATION:

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

    B. FOR FLEXIBLE THERMOPLASTIC PIPE: COMPLY WITH A.S.T.M. D2321, CLASS IA, IB OR II AS MODIFIED BELOW:

       1. EXCLUDE SHARP ANGULAR CRUSHED STONE 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 ARE TO BE INSTALLED AFTER NEW WATER MAINS HAVE BEEN TESTED, DISINFECTED, FLUSHED AND ACCEPTED FOR USE BY THE VILLAGE OF ITASCA. LOCATIONS OF WATER SERVICES ARE TO BE DETERMINED 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 ITASCA 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 DISPOSED OF BY THE CONTRACTOR.

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, FITTING, OR VALVE TO BE PLUGGED/CAPPED. PLUGS/CAPS SHALL INCLUDE CONCRETE THRUST BLOCKS, RESTRAINED JOINTS, OR STAINLESS STEEL TIE RODS AS REQUIRED.

25. AT LOCATIONS WHERE A MINIMUM LENGTH OF CASING PIPE IS CALLED OUT TO BE INSTALLED BY AUGERING AND JACKING OR RAMMING, ONLY THE MINIMUM LENGTH OF CASING WILL BE PAID FOR AS AUGERED AND JACKED OR RAMMED CASING PIPE. THE REMAINDER OF THE CASING PIPE CAN BE INSTALLED BY AUGERING AND JACKING OR RAMMING, BUT WILL BE PAID FOR AS OPEN-CUT CASING PIPE.

26. DETERMINE LOCATION, ELEVATION AND SIZE OF EXISTING WATER MAINS RELATIVE TO PROPOSED WATER MAINS PRIOR TO INSTALLATION OF CASING PIPES.

27. CONNECT PROPOSED WATER MAINS TO EXISTING WATER MAINS WITH FITTINGS AS REQUIRED.

28. JOINT DEFLECTION FOR PIPE AND FITTINGS SHALL NOT EXCEED 60% OF MANUFACTURER'S MAXIMUM RECOMMENDED JOINT DEFLECTION.

29. CONTRACTOR SHALL INSTALL WATER MAIN PRIOR TO UTILITY COMPANIES INSTALLING NEW OR RELOCATED UTILITIES PARALLEL TO WATER MAIN.

30. CASING PIPE USED TO CROSS SEWER PIPE SHALL BE WATER MAIN QUALITY PIPE, AND MAY BE DUCTILE IRON, STEEL, P.V.C., OR HDPE PIPE MATERIAL AT THE CONTRACTOR'S OPTION.

31. WATER MAIN QUALITY PIPE USED FOR STORM SEWERS SHALL BE CLASS 50 DUCTILE IRON PIPE, SDR 25 (MINIMUM WALL THICKNESS) AWWA C905 P.V.C. PLASTIC PIPE, OR CLASS 160 PSI DR 26 ASTM D2241 P.V.C. PLASTIC PIPE. CONNECTION OF P.V.C. WATER MAIN QUALITY PIPE AT STORM SEWER MANHOLES, CATCH BASINS AND INLETS SHALL INCLUDE A WATERTIGHT, FLEXIBLE RUBBER COUPLING, WITH STAINLESS STEEL SEALING BANDS UNLESS THE STANDARD SPECIFICATIONS OR SPECIAL PROVISIONS WRITTEN FOR THE I.D.O.T. ROADWAY RECONSTRUCTION PROJECT ALLOW FOR DIRECT CONNECTION OF P.V.C. PIPE TO THESE PRECAST CONCRETE STRUCTURES USING MORTAR JOINTS.

    15" PIPE IS NOT CONSIDERED WATER MAIN QUALITY PIPE. 15" STORM SEWER PIPE CALLED OUT TO BE WATER MAIN QUALITY PIPE SHALL BE CONSTRUCTED OF 16" WATER MAIN QUALITY PIPE.

32. ALL LINE STOPS SHALL BE LOCATED FOR FUTURE REFERENCE. EACH LINE STOP SHALL BE LOCATED WITH MEASUREMENTS TO A MINIMUM OF THREE (3) PERMANENT REFERENCE POINTS.

33. PARKWAY RESTORATION REQUIRED DUE TO CONTRACTOR'S OPERATIONS AND CONSTRUCTION OF THE WATER AND SEWER REPLACEMENT WORK, IN LOCATIONS OUTSIDE LIMITS OF I.D.O.T. ROADWAY RECONSTRUCTION PROJECT, SHALL CONSIST OF SUBSOIL PREPARATION, A 6 INCH THICK LAYER OF TOPSOIL, SEEDING AND MULCHING, FERTILIZING, WATERING AND MAINTENANCE. PARKWAY RESTORATION FOR THE WATER AND SEWER REPLACEMENT PROJECT WILL BE PAID FOR AS A LUMP SUM PRICE.

34. SEE THE SPECIAL PROVISIONS FOR THE REQUIREMENTS OF THE GROUND MODIFICATION/STABILIZATION AND PILOT TUBE MICROTUNNELING WORK REQUIRED TO INSTALL THE SANITARY SEWER BETWEEN THORNDALE AVENUE AND NORWOOD AVENUE.

35. CERTAIN EXISTING FIRE HYDRANTS AND AUXILIARY VALVES NEED TO BE REMOVED FROM EXISTING WATER MAINS WHICH ARE TO REMAIN IN SERVICE. AT THOSE LOCATIONS NOTED IN THE DRAWINGS, CONTACT THE VILLAGE OF ITASCA TO DETERMINE A SCHEDULE FOR THE SHUT DOWN OF THE EXISTING WATER MAIN, AND AFTER THE WATER MAIN IS SHUT DOWN; REMOVE THE FIRE HYDRANT, LEADER PIPE AND AUXILIARY VALVE, EXPOSE THE TEE ON THE WATER MAIN, AND INSTALL AN M.J. PLUG WITH STAINLESS STEEL NEW BOLTS AND NUTS ON THE TEE. WRAP THE TEE AND PLUG WITH TWO LAYERS OF POLYETHYLENE SHEETING AND TAPE SECURELY BEFORE BACKFILLING.

LEGEND

EXISTING / PROPOSED

- LOW PRESSURE SEWER
- SANITARY SEWER OR SERVICE
- STORM SEWER
- STORM SEWER (BY OTHERS)
- WATER MAIN (W)
- WATER SERVICE (WS)
- FORCE MAIN (FM)
- UNDERDRAIN (UD)
- MANHOLE
- CATCH BASIN
- INLET
- DRYWELL
- FLARED END SECTION
- FIRE HYDRANT
- WATER VALVE W/ BOX AND COVER (WV)
- WATER VALVE VAULT
- WATER SERVICE BOX OR CURB STOP (BB)
- WATER METER (WM)
- TO BE ABANDONED AND/OR REMOVED

ABBREVIATIONS

CONC	PORTLAND CEMENT CONCRETE
BIT	BITUMINOUS PAVEMENT
GR	GRAVEL
CMP	CORRUGATED METAL PIPE
FH	FIRE HYDRANT
CI	CAST IRON
DI	DUCTILE IRON
BM	BENCH MARK
INV EL	INVERT ELEVATION
CL EL	CENTERLINE ELEVATION
BC	BACK OF CURB
EOP	EDGE OF PAVEMENT
PL	PROPERTY LINE
ROW	RIGHT-OF-WAY
FL	FLOW LINE
TF	TOP OF FRAME
TC	TOP OF CURB OR CONCRETE

STEVEN M. VERSEMAN 62-39372 LICENSED PROFESSIONAL ENGINEER STATE OF ILLINOIS

"LICENSE EXPIRES 11-30-2011" 12-17-10

(FOR SHEETS 349 - 365)

BAXTER & WOODMAN Consulting Engineers

USER NAME = (username)	DESIGNED - SMV	REVISED -8-27-10 VILLAGE REVIEW
PLOT CONFIG= PDF22X34.plt	DRAWN - UKB	REVISED -
PLOT SCALE = 1:1	CHECKED - SMV	REVISED -
PLOT DATE = 12/16/2010 6:41:59 PM	DATE - 7-30-10	REVISED -

Illinois Department of Transportation

ILLINOIS ROUTE 53
GENERAL NOTES, LEGEND AND ABBREVIATIONS

SCALE: NONE | SHEET NO. # OF # | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DUPAGE	781	349
		CONTRACT NO. 60477		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

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01/31/2011