

SYMBOL LEGEND

<u>ABBREVIATIONS</u>			
AC ADW AGG B BB BWALL C&G CDW CE CLF CMP CNO CONC CPP CSW DIP	AIR CONDITIONER UNIT ASPHALT DRIVEWAY AGGREGATE BUSH BUFFALO (SERVICE) BOX BOTTOM OF WALL CURB AND GUTTER CATCH BASIN CONCRETE DRIVEWAY COMED METER CENTERLINE CHAIN LINK FENCE CORRUGATED METAL PIPE COULD NOT OPEN CONCRETE CORRUGATED PLASTIC PIPE CONCRETE SIDEWALK DUCTILE IRON PIPE	IE INL IP LAP MH PED PVC R RCP ROW RW SAN. S. STM. S. TB TOP	INVERT ELEVATION INLET IRON PIPE LANDSCAPING MANHOLE PEDESTAL POLYVINYL CHLORIDE PIPE RIM REINFORCED CONC. PIPE RIGHT-OF-WAY RETAINING WALL SANITARY SEWER STORM SEWER TOP OF BANK TOP OF PIPE TRANSITE PIPE
DS	DOWN SPOUT	WL	WATER LINE
FH FL GM GDW	FIRE HYDRANT FLOW LINE GAS METER GRAVEL DRIVEWAY	WT WVB WVV WW	
HDPE	HIGH DENSITY POLY PIPE	** **	IIIIDJII IILLE

GENERAL NOTES

- THE GENERAL NOTES LISTED ON THESE PLANS, THE CONTRACT SPECIFICATIONS AND DRAWINGS ARE ALL PART OF THE CONTRACT DOCUMENTS. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE TO BE CONSIDERED A PART OF THE CONTRACT. IF A CONFLICT EXISTS BETWEEN THESE GENERAL NOTES, THE CONTRACT SPECIFICATIONS AND DRAWINGS THE MODE STRINGENT SHALL COVERN DRAWINGS, THE MORE STRINGENT SHALL GOVERN.
- . ALL WORK SHALL CONFORM TO THE FOLLOWING STANDARD SPECIFICATIONS:
- A. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINDIS" AS PREPARED BY THE ILLINDIS DEPARTMENT OF TRANSPORTATION LATEST EDITION. (HERE AFTER REFERED TO AS THE "STANDARD SPECIFICATIONS")
- B. "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINDIS" LATEST EDITION, SHALL GOVERN ALL WATER AND SEWER MAIN CONSTRUCTION.
- C. THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS" AS PUBLISHED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST
- D. IEPA STANDARD SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT
- 3. NO CONSTRUCTION PLANS SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED 'FOR CONSTRUCTION'. PRIOR TO COMMENCEMENT OF BIDDING AND CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING HIS WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAME TO THE ENGINEER BEFORE DOING ANY WORK, OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, SPECIFICATIONS AND/OR DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- 4. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED AGAINST ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF 12 MONTHS FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE

ENGINEER SHALL BE FINAL AND CONCLUSIVE

- BEFORE ACCEPTANCE BY THE OWNER AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED AND APPROVED BY THE OWNER OR HIS REPRESENTATIVE. FINAL PAYMENT WILL BE MADE AFTER ALL OF THE CONTRACTOR'S WORK HAS BEEN APPROVED AND ACCEPTED, AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- . THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR CONSTRUCTION ALONG OR ACROSS EXISTING STREETS OR HIGHWAYS. HE SHALL MAKE ARRANGEMENTS FOR THE PROPER BRACING SHORING AND OTHER REQUIRED PROTECTION OF ALL ROADWAYS BEFORE CONSTRUCTION BEGINS. HE SHALL BE RESPONSIBLE FOR ANY DAMAGE T THE STREETS OR ROADWAYS AND ASSOCIATED STRUCTURES AND SHALL MAKE REPAIRS AS NECESSARY TO THE SATISFACTION OF THE ENGINEER.
- OWNER/ENGINEER OF ANY MISSING BENCHMARKS SHOWN ON THE PLANS B. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.

ALL CONSTRUCTION LAYOUT AND STAKING SHALL BE PERFORMED BY THE CONTRACTOR (COST INCIDENTAL). THE CONTRACTOR SHALL NOTIFY THE

- WHENEVER THE PERFORMANCE OF WORK IS INDICATED ON THE PLANS, AND NO ITEM IS INCLUDED IN THE CONTRACT FOR PAYMENT, THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT, AND NO ADDITIONAL
- COMPENSATION WILL BE ALLOWED. 10. THE CONTRACTOR SHALL FIELD VERIFY LOCATION, ELEVATION, MATERIAL, AND SIZE OF EXISTING UTILITIES AND STRUCTURES. NO ADDITIONAL COMPENSATION IS ALLOWED FOR MINOR DEVIATIONS OF ACTUAL CONDITIONS FROM THOSE SHOWN. IF THERE ARE ANY DISCREPANCIES, THE CONTRACTOR IS TO NOTIFY THE ENGINEER AT ONCE. NO WORK SHALL BE DONE UNTIL THE DISCREPANCY IS RESOLVED.
- WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THIS LOOSE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY BY THE RESPONSIBLE PARTY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK
- SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES, AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION. BARRICADES AND WARNING SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH THE I.D.O.T. STANDARD SPECIFICATIONS. ADEQUATE LIGHTING SHALL BE MAINTAINED FROM DUSK TO DAWN AT ALL LOCATIONS WHERE CONSTRUCTION OPERATIONS WARRANT, OR AS DESIGNATED BY THE ENGINEER OR OWNER OR APPLICABLE GOVERNMENTAL AGENCIES. ALL TRAFFIC CONTROL WORK SHALL BE DONE IN ACCORDANCE WITH THE I.D.D.T. "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES." AND I.D.O.T. "STANDARD DETAILS"
- 1.3 ALL PERMANENT TYPE PAVEMENTS OR OTHER PERMANENT IMPROVEMENTS. WHICH ABUT THE PROPOSED IMPROVEMENT AND MUST BE REMOVED,
 SHALL BE SAWED AS DIRECTED PRIOR TO REMOVAL. ALL ITEMS SO TO THEIR ORIGINAL CONDITION OR BETTER. PAYMENT FOR SAWING SHALL BE INCLUDED IN THE COST FOR REMOVAL OF EACH ITEM AND REPLACEMENT WILL BE PAID UNDER THE RESPECTIVE ITEMS IN THE CONTRACT, UNLESS OTHERWISE INDICATED.
- 14. THE CONTRACTOR WILL BE REQUIRED TO REPLACE IN KIND ALL SURFACE FEATURES DAMAGED OR REMOVED INCLUDING, BUT NOT LIMITED TO, CURB AND GUTTER, STREET PAVING, SIDEWALKS, DRIVES, LAWNS, TREES, PROPERTY PINS AND/OR MONUMENTS (COST INCIDENTAL).
- 15. STREETS ARE TO BE KEPT CLEANED OF DIRT AND DEBRIS AT THE END OF EACH DAY'S OPERATIONS IN ACCORDANCE WITH ARTICLE 107.15 OF THE I.D.O.T. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". 6. WHERE OVERHANGING BRANCHES INTERFERE WITH OPERATIONS OF
- 6. WHERE OVERHANGING BRANCHES INTERFERE WITH OPERATIONS OF CONSTRUCTION, SAID BRANCHES SHALL BE TRIMMED AND SEALED IN ACCORDANCE WITH SECTION 201 OF THE I.D.D.T. STANDARD SPECIFICATIONS, AND THE COST OF SAME SHALL BE INCIDENTAL TO THE CONTRACT. TREES SHALL BE REMOVED ONLY AFTER RECEIVING APPROVAL OF THE OWNER. THE OWNER SHALL DESIGNATE THOSE TREES WHICH ARE TO BE REMOVED. THE CONTRACTOR SHALL ALTER THE ALIGNMENT OF SEWERS, WATER MAINS, PATHWAYS, SIDEWALKS, AND DRIVEWAYS AS DIRECTED TO PRESERVE TREES. A CONTRACTOR REMOVING TREES WITHOUT OWNER'S APPROVAL WILL BE RESPONSIBLE FOR REPLACEMENT OF SAID TREE(S) AS DIRECTED BY OWNER AT CONTRACTOR'S EXPENSE. IF ADDITIONAL TREES OR SHRUBS MUST BE REMOVED, THEY WILL BE PAID FOR IN ACCORDANCE WITH SPECIFICATIONS.
- . ALL EXISTING TRAFFIC SIGNS, STREET SIGNS, ETC., WHICH INTERFERE 7. ALL EXISTING TRAFFIC SIGNS, STREET SIGNS, ETC., WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND ARE NOT NOTED FOR REMOVAL OR DISPOSAL SHALL BE REMOVED AND RESET BY THE CONTRACTOR AT LOCATIONS AS DESIGNATED BY THE ENGINEER. THIS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED. DAMAGE TO THESE ITEMS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE. ALL SIGNS NOT REQUIRED TO BE RESET SHALL BE DELIVERED TO THE RIGHTFUL OWNER AS APPROPRIATE. IN ADDITION, ALL MAIL BOXES THAT INTERFERE WITH CONSTRUCTION SHALL BE SIMILARLY RELOCATED AT NO ADDITIONAL COST IN ACCORDANCE WITH THE I.D.O.T. AND LCDOT STANDARD SPECIFICATIONS.
- 18. ALL FIELD TILES ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER OR EXTENDED TO OUTLET INTO A PROPOSED DRAINGEWAY. IF THIS CANNOT BE ACCOMPLISHED, THEN IT SHALL BE REPAIRED WITH NEW PIPE OF SIMILAR SIZE AND MATERIAL TO THE ORIGINAL LINE AND PUT IN ACCEPTABLE OPERATION CONDITION. A RECORD OF THE RELOCATION OF ALL FIELD TILE FOR ON-SITE DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE CONTRACTOR AND TURNED OVER TO THE ENGINEER UPON COMPLETION OF THE PROJECT. THE COST OF THIS WORK SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 19. DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL INSURE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. SITE
 DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING OR ANY OTHER
 ACCEPTABLE METHOD. THE CONTRACTOR'S FAILURE TO PROVIDE THE
 ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED O DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT
- DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULTHEREOF. CONSTRUCTION SHALL NOT BLOCK OFF-SITE DRAINAGE. 20. PUMPING GROUNDWATER AND/OR STORMWATER FROM OPEN TRENCHES OR DEPRESSIONAL AREAS IS CONSIDERED INCIDENTAL TO THE COST OF CONSTRUCTION. PUMPING SHALL BE IN ACCORDANCE WITH IEPA AND LAKE COUNTY REQUIREMENTS FOR DISCHARGE.
- 21. IT SHALL BE THE RESPONSIBILITY OF EACH RESPECTIVE CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS WHICH RESULT FROM HIS CONSTRUCTION OPERATIONS AT NO ADDITIONAL

GENERAL NOTES - CONTINUED

- 22. THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS WORK IN ACCORDANCE WITH THE CONTRACTOR. CONTRACT DOCUMENTS AND SPECIFICATIONS. THE CONTRACTOR IS TO PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, ETC. NECESSARY TO PERFORM ALL THE WORK REQUIRED FOR CONSTRUCTION OF THE PROPOSED IMPROVEMENTS AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
- 23. SPECIAL ATTENTION IS DRAWN TO THE FACT THAT ARTICLE 105.06 OF THE I.D.O.T. STANDARD SPECIFICATIONS REQUIRES THE CONTRACTOR TO HAVE A COMPETENT SUPERINTENDENT ON THE PROJECT SITE AT ALL TIMES IRRESPECTIVE OF THE AMOUNT OF WORK SUBLET. THE SUPERINTENDENT IRRESPECTIVE OF THE AMDUNI OF WORK SUBLET. THE SUPERINTENDENT SHALL BE CAPABLE OF READING AND UNDERSTANDING THE PLANS AND SPECIFICATIONS, SHALL HAVE FULL AUTHORITY TO EXECUTE ORDERS TO EXPEDITE THE PROJECT, AND SHALL BE RESPONSIBLE FOR SCHEDULING AND HAVE CONTROL OF ALL WORK AS THE AGENT OF THE CONTRACTOR. FAILURE TO COMPLY WITH THIS PROVISION WILL RESULT IN A SUSPENSION OF WORK AS PROVIDED IN ARTICLE 108.07.
- 24. ELECTRIC, TELEPHONE, NATURAL GAS, AND OTHER UTILITY COMPANIES HAVE UNDERGROUND AND/OR OVERHEAD SERVICE FACILITIES IN THE VICINITY OF THE PROPOSED WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES. THE CONTRACTOR SHALL CALL J. U. L. I. E AT (800) 892-0123 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
- 25. NDT ALL GAS, POWER OR TELEPHONE LINES, WHETHER ABOVE OR BELOW GROUND, HAVE BEEN SHOWN ON THE PLANS. THE LOCATION OF EXISTING UNDERGROUND UTILITIES, SUCH AS WATERMAINS, SEWERS, FIELD TILES, ETC., AS SHOWN ON THE PLANS, HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR MUST ASSUME RESPONSIBILITY FOR ALL UTILITIES WHETHER SHOWN OR NOT, AND MUST REALIZE THAT THE ACTUAL LOCATIONS OF THE UTILITIES SHOWN MAY BE DIFFERENT THAN INDICATED.
- 26. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND FEDERAL SAFETY REGULATIONS AS OUTLINED IN THE LATEST REVISIONS OF THE FEDERAL CONSTRUCTION SAFETY STANDARDS (SERIES 1926) AND WITH APPLICABLE PROVISIONS AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS OF THE WILLIAMS STELGER OCCUPATIONAL HEALTH STATE SAFETY ACT OF 1970 (REVISED). THE CONTRACTOR, ENGINEER AND OWNER SHALL EACH BE RESPONSIBLE FOR HIS
- 27. THE CONTRACTOR SHALL INDEMNIFY THE ENGINEER, THEIR AGENTS, ETC.,
 THE OWNER, LAKE COUNTY DIVISION OF TRANSPORTATION, AVON TOWNSHIP
 AND THEIR AGENTS. FROM ALL LIABILITY INVOLVED WITH THE
 CONSTRUCTION, INSTALLATION AND TESTING OF THE WORK ON THIS PROJECT AND NAME THEM AS CO-INSURED
- 28. THE CONTRACTOR SHALL KEEP A SET OF "APPROVED" CONSTRUCTION PLANS ON THE JOB SITE, AND SHALL MAINTAIN (AS INDICATED HEREIN AND ELSEWHERE WITHIN THESE CONSTRUCTION NOTES, SPECIFICATIONS, AND PLANS) A LEGIBLE RECORD ON SAID PLANS OF ANY FIELD TILE ENCOUNTERED, ANY MODIFICATIONS/ALTERATIONS TO ALIGNMENT AND/OR TO PLANS AND SPECIFICATIONS OF PROPOSED IMPROVEMENTS, ETC. UPON COMPLETION OF THE CONTRACTORS'WORK, SAID PLANS AND INFORMATION SHALL BE PROVIDED TO OWNER. FINAL CONTRACT PAYMENT SHALL NOT COME DUE UNTIL THIS INFORMATION IS RECEIVED BY THE OWNER AND DEFEND TO BE COMPLETE AND ACCEPTABLE
- 29. THE CONTRACTOR SHALL BE REQUIRED TO ATTEND A PRECONSTRUCTION MEETING WITH OWNER PRIOR TO THE START OF CONSTRUCTION TO REVIEW SHOP DRAWING PROCEDURES, CONSTRUCTION METHODS, GENERAL SEQUENCING AND TO ESTABLISH A WELL DEFINED TASK SPECIFIC
- 30. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER AT LEAST 48 HOURS IN ADVANCE OF STARTING ANY CONSTRUCTION. 1. THE CONTRACTOR SHALL SUBMIT A WELL DEFINED TASK SPECIFIC CONSTRUCTION SCHEDULE TO THE DWNER AND ENGINEER PRIDR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL INFORM THE OWNER AND ENGINEER OF ALL CHANGES IN THE CONSTRUCTION SCHEDULE OR GENERAL SEQUENCE AS SOON AS THEY BECOME APPARENT.

COMMONWEALTH EDISON NOTES

- THE CONTRACTOR IS TO NOTIFY EDISON'S ENGINEERING DEPARTMENT AT LIBERTYVILLE, ILLINOIS, TELEPHONE NUMBER (847)816-5412, AT LEAST 48 HOURS BEFORE COMMENCING CONSTRUCTION. NO EQUIPMENT MORE THAN FIFTEEN (15) FEET IN HEIGHT SHOULD BE
- USED UNDER EDISON'S TRANSMISSION LINES. . THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS WHEN WORKING WITH EQUIPMENT UNDER AND ADJACENT TO ENERGIZED

GENERAL CONSTRUCTION NOTES

- THIS PROJECT IS TO BE CONSTRUCTED WITH AN ABSOLUTE MINIMUM OF DISRUPTION, INCONVENIENCE AND SAFETY HAZARD TO RESIDENTS AND THE PUBLIC AT LARGE.
- THE CONTRACTOR SHALL PLAN AND SCHEDULE HIS WORK TO ACHIEVE THE FOLLOWING: NO EXISTING RESIDENTIAL DRIVEWAY SHALL BE BLOCKED FOR MORE THAN FOUR HOURS. CONTRACTOR IS TO GIVE RESIDENTS A MINIMUM OF 24-HOURS NOTICE PRIOR TO CLOSING ANY DRIVEWAY. DOOR HANGERS ARE TO BE USED TO NOTIFY RESIDENTS. · TRAFFIC FLOW IS TO BE MAINTAINED THROUGH THE CONSTRUCTION AREA WITH MINIMUM
- WARNING LIGHTS, SIGNS, ETC., AT ANY TIME CONSTRUCTION OPERATIONS ARE IN THE ROADWAY. TRAFFIC CONTROL IS TO BE IN ACCORDANCE WITH THE APPROPRIATE ARTICLES OF SECTION 701 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS" PREPARED BY THE DEPARTMENT OF TRANSPORTATION OF THE STATE OF ILLINOIS, ADOPTED APRIL 1,1989.

DISRUPTION AND NO SAFETY HAZARD. CONTRACTOR IS TO PROVIDE FLAGMEN, BARRICADES,

- TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE EMPLOYED WHEN NECESSARY AND SHALL MEET THE REQUIREMENTS OF ARTICLE 107.14 OF THE "STANDARD SPECIFICATIONS FOR ROAD
- IN PARKWAYS, BACKFILLING AND ROUGH GRADING (WITHIN 2-INCHES + OF FINAL GRADE) IS TO BE COMPLETED THE SAME DAY FOR THE FULL EXTENT OF THE EXCAVATION FOR THAT DAY'S PIPE
- 4. CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES AND JULIE AT (800) 892-0123 OR 811. AT LEAS 48 HOURS PRIOR TO ANY CONSTRUCTION. SOME OF THE KNOWN UTILITY COMPANIES ARE AS FOLLOWS:

COMMONWEALTH EDISON NORTH SHORE GAS CO. LAKE COUNTY D.O.T. LIBERTYVILLE,IL 60048 LIBERTYVILLE, IL 60048 WAUKEGAN, IL 60085

ELMHURST, IL 60126

AT&T (TELEPHONE)

5. THE CONTRACTOR AT HIS OWN EXPENSE SHALL BE REQUIRED TO REMOVE AND RELOCATE ALL ROAD SIGNS WHICH INTERFERE WITH HIS CONSTRUCTION OPERATIONS, AND TO TEMPORARILY RESET SUCH SIGNS DURING HIS CONSTRUCTION OPERATIONS, ALL WORK INVOLVING SIGNS SHALL BE COVERED BY THE FOLLOWING REQUIREMENTS: A. SIGNS SHALL NOT BE REMOVED UNTIL PROGRESS OF WORK NECESSITATES REMOVAL.

WOODSTOCK, IL 60098

- B. EVERY SIGN REMOVED MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER VISIBLE TO TRAFFIC.ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND NEAT APPEARING FOR THE DURATION OF THE TEMPORARY SETTING.
- C. ALL SIGNS MUST BE RE-ERECTED IN THEIR PERMANENT LOCATIONS AS DESIGNATED BY THE OWNER AS THE WORK IS COMPLETED. 6. CONTRACTOR IS TO MAINTAIN TRENCHES AT STREETS, DRIVEWAYS, PARKING AREAS, ETC., IN A DRIVEABLE CONDITION ON A 24 HOUR, 7 DAY A WEEK BASIS. SPECIAL ATTENTION SHALL BE PAID TO THE CONDITION OF THESE TRENCHES AT THE END OF EACH DAY'S OPERATION AND PRIOR TO WEEKENDS AND HOLIDAYS TO FORESTALL COMPLAINTS WHICH WILL REQUIRE ATTENTION DURING NON-WORKING PERIODS.
- 7. RESTORATION IS TO BE COMPLETED IN A TIMELY MANNER AS THE PROJECT PROGRESSES.

8. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL SITE CONDITIONS PRIOR TO

- COMMENCEMENT OF CONSTRUCTION AND IS TO COMPARE THE SITE CONDITIONS AS INDICATED 9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE ENGINEER WITH AS-BUILT CONDITIONS OF THE DESIGNATED IMPROVEMENTS.ANY CHANGES TO THE DRAWINGS OR ADDITIONAL ITEMS
- MUST BE REPORTED TO THE ENGINEER AS WORK PROGRESSES. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE AS-BUILT INFORMATION IN ORDER THAT THE APPROPRIATE DRAWINGS CAN BE PREPARED.
- 10.CONTRACTOR IS TO VERIFY ALL ELEVATIONS PRIOR TO THE START OF WORK AND IF THERE ARE ANY DISCREPANCIES, IS TO NOTIFY THE ENGINEER AT ONCE.NO WORK SHALL BE DONE UNTIL THE DISCREPANCY IS RESOLVED.
- 11.THESE CONSTRUCTION NOTES ARE COMPLEMENTARY TO THE SPECIFICATIONS, BUT IN CASE OF CONFLICT, THE MORE STRINGENT SHALL GOVERN.
- 12.CONTRACTOR IS TO REFER TO "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, ILLINOIS DEPARTMENT OF TRANSPORTATION FOR TRENCH BACKFILL, SURFACING, BASE COURSE, ETC., GRADATIONS AND CLASSIFICATIONS, ETC., AS CALLED FOR ON THE PLANS OR IN THE SPECIFICATIONS.
- 13.ALL TRENCHES CAUSED BY THIS CONSTRUCTION AROUND, UNDER AND NEAR ANY PAVE SURFACE, STREETS, SIDEWALKS, ETC., SHALL BE BACKFILLED WITH CA-6, GRADE 8 OR 9, 100% CRUSHED (NOT CRUSHED CONCRETE) AND SHALL BE MECHANICALLY COMPACTED IN PLACE TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE AS DETERMINED BY THE STANDARD PROCTOR TEST. ALL TRENCHES IN PARKWAY SHALL BE BACKFILLED WITH SELECT EXCAVATED AND MECHANICALLY COMPACTED TO 90% STANDARD PROCTOR.
- 14.ALL DRIVEWAY CULVERTS REMOVED SHALL BE REPLACED WITH THE SAME DIAMETER BUT MATERIAL SHALL BE A CORRUGATED POLYETHYLENE PIPE WITH A SMOOTH WALL INTERIOR AND SHALL MEET THE REQUITEMENTS OF AASHTO M 294. ALL CULVERTS SHALL HAVE ALUMINUM FLARED END SECTIONS INSTALLED WITH THE CULVERT AND SHALL MEET AASHTO M 196 REQUIREMENTS. NO EXTRA COMPENSATION ALLOWED.
- 5.ALL EXCAVATED MATERIAL SHALL BE REMOVED FROM THE PROJECT SITE AT THE END OF EACH WORKING DAY. EXCAVATED MATERIAL SHALL NOT BE STOCKPILED ON THE PROJECT SITE DURING NON-WORKING HOURS WITHOUT PERMISSION FROM THE OWNER/ENGINEER. 16.PIPE EQUIPMENT AND EQUIPMENT STORAGE - ALL MATERIALS AND EQUIPMENT STORED OVERNIGHT AND/OR FOR EXTENDED PERIODS OF TIME MUST BE PLACED EITHER ON THE ROAD RIGHT-OF-WAY OR ON PRIVATE PROPERTY WITH PROOF OF AN EXECUTED AGREEMENT BETWEEN THE CONTRACTOR AND THE PRIVATE OWNER.STORAGE LOCATIONS ARE SUBJECT TO REVIEW AND APPROVAL BY THE OWNER/ENGINEER.STORAGE LOCATIONS SHALL NOT INTERFERE WITH SIGHT LINES FOR THE MOTORING PUBLIC.
- 7.EXISTING SANITARY SEWER SERVICES ENCOUNTERED DURING TRENCHING OPERATIONS ARE TO BE REPLACED WITH WATERMAIN QUALITY PIPING (PVC C900/C905 SDR 25) FOR THE FULL WIDTH OF THE TRENCH PLUS 3-FT. MINIMUM BEARING ON UNDISTURBED EARTH AT EACH SIDE OF THE TRENCH. WATERTIGHT CONNECTIONS TO EXISTING SANITARY SERVICES SHALL BE MADE USING NON-SHEAR STAINLESS-STEEL REINFORCED MISSION COUPLINGS.

LAKE COUNTY PUBLIC WORKS WATER MAIN CONSTRUCTION REQUIREMENTS

- WATER FOR HORIZONTAL DIRECTIONAL DRILLING, PRESSURE TESTING, FLUSHING AND DISINFECTION WILL BE SUPPLIED BY THE OWNER AT NO COST TO THE CONTRACTOR WITH
- 1A. FOR HORIZONTAL DIRECTIONAL DRILLING THE CONTRACTOR MUST USE THE FIRE HYDRANT LOCATED ACROSS THE STREET FROM THE ADDRESS: 2 SEYTANT DRIVE THIRD LAKE, ILLINOIS 60030. THIS HYDRANT SHALL BE METERED AND OPERATED BY LAKE COUNTY PUBLIC WORKS PERSONNEL.
- THE CONTRACTOR IS TO METER THE AMOUNT OF WATER USED AND PROVIDE THE RECORDS TO THE PUBLIC WORKS DEPARTMENT. THE PUBLIC WORKS DEPARTMENT IS TO BE GIVEN 48-HOURS NOTICE PRIOR TO SUCH TIME THAT WATER IS NEEDED FOR TESTING FTC. THE METER MUST BE OBTAINED AT PUBLIC WORKS DEPARTMENT, COST TO BE INCIDENTAL TO UNIT PRICE COST FOR WATER MAIN INSTALLATION. A REFUNDABLE DEPOSIT OF \$1,307 WILL BE REQUIRED IN EXCHANGE FOR THE 2" METER AND A DEPOSIT OF \$2,890 WILL BE REQUIRED FOR A 3"
- 1C. FOR PRESSURE TESTING AND DISINFECTION, THE CONTRACTOR MAY UTILIZE THE VALVE AT THE TIE IN LOCATION AT LAKESIDE DRIVE (STA 1+06). THE WATER SHALL BE SUPPLIED AT A MAXIMUM RATE OF 30 GPM FOR FILLING THE NEW WATER MAIN. LAKE COUNTY PUBLIC WORKS PERSONNEL SHALL OPERATE THE
- THE WATER FOR FLUSHING SHALL BE OBTAINED AS DETAILED ON SHEET 7 OF THE PLANS.
- SEE SHEET 7 FOR FLUSHING PROCEDURE. THE EXISTING SYSTEM DOES NOT PROVIDE SUFFICIENT SYSTEM PRESSURE TO PROVIDE AN ADEQUATE FLUSH OF THE NEW WATER
- THE CONTRACTOR IS TO FIELD VERIFY LOCATION, DEPTH, TYPE OF PIPING MATERIALS, ETC., OF EXISTING WATER MAIN, IF ANY, TO VERIFY ACTUAL FITTINGS REQUIRED TO MAKE INTERCONNECTIONS TO THE NEW MAIN REPORT ANY DISCREPANCIES FROM THE PLANS
- CHLORINATION AND SAMPLING SHALL BE IN ACCORDANCE WITH THE I.E.P.A. AND LAKE COUNTY PUBLIC WORKS DEPARTMENT STANDARD PROCEDUES AND THE COST SHALL BE INCLUDED WITH THE LUMP SUM COST FOR PRESSURE TESTING AND CHLORINATION SAMPLING AND TESTING.
- DISINFECTION TESTING WILL BE REQUIRED AT TWO TESTING LOCATIONS (LENGTH > 1.200 LF)
- ANY REQUIRED SHUT DOWN OF THE EXISTING WATER MAIN TO FACILITATE THE CONSTRUCTION OF THE PROPOSED WATER MAIN SHALL BE COORDINATED WITH LCPW PERSONNEL SHUT DOWNS SHALL BE LIMITED TO A 4-HOUR INTERVAL, THE CONTRACTOR SHALL PLAN ACCORDINGLY TO HAVE THE WORK COMPLETED IN A TIMELY MANNER.
- THE CONTRACTOR SHALL SUBMIT A DATA LOG INCLUDING THE DEPTH AND SLOPE OF THE WATER MAIN FOR HORIZONTAL DIRECTIONAL DRILLING OPERATIONS. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE A MARKUP SET OF PLANS SHOWING THE LOCATIONS OF BENDS AND DEFLECTIONS THAT INCLUDES DEPTH AND DIMENSIONS FROM ADJACENT WATER MAIN FEATURES (E.G. FIRE HYDRANTS, VALVE VAULTS, ETC.). THIS AS-BUILT DATA SHALL BE SUBMITTED TO THE OWNER PRIOR TO FINAL PAYMENT AND SHALL BE COST INCIDENTAL TO WORK PERFORMED.

CONSTRUCTION NOTES:

UTILITY COMPANIES FOR REQUIREMENTS.

UNLESS OTHERWISE NOTED ON THE DRAWINGS.

- EXISTING WATER MAIN MATERIAL, LOCATION, DEPTH, ETC. TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO START OF PROPOSED WATER MAIN CONSTRUCTION CONTRACTOR SHALL VERIFY CONNECTION POINTS WITH EXISTING WATER MAIN, NECESSARY FITTINGS, ETC. TO FACILITATE INSTALLATION OF PROPOSED WATERMAIN. COST INCIDENTAL.
- THE ALIGNMENT/DEPTH OF PROPOSED WATER MAIN MAY REQUIRE ADJUSTMENT DURING COURSE OF CONSTRUCTION DUE TO THE LOCATION OF EXISTING UTILITIES, ETC. CONTRACTOR SHALL RECEIVE APPROVAL FOR ANY ALIGNMENT/DEPTH REVISIONS FROM THE ENGINEER PRIOR TO UNDERTAKING
- VALVES ON EXISTING WATER MAIN SYSTEM SHALL ONLY BE OPERATED BY LCPWD PERSONNEL.
- CONTRACTOR SHALL VERIFY DEPTH OF ALL EXISTING UTILITIES EITHER AT CROSSINGS OF, OR IN CLOSE PROXIMITY TO THE PROPOSED WATER MAIN PRIOR TO THE START OF CONSTRUCTION (COST INCIDENTAL), REPORT CONFLICTS TO THE ENGINEER.
- SANITARY SERVICE LINES SHOWN ON THE PLANS ARE APPROXIMATE LOCATIONS. CONTRACTOR SHALL VERIFY/CONFIRM LOCATION AND DEPTH OF SANITARY SERVICE CROSSINGS PRIOR TO THE START OF CONSTRUCTION (COST INCIDENTAL).
- CONTRACTOR TO COORDINATE TEMPORARY SIDEWALK CLOSURES AND ROADWAY LANE CLOSURES WITH THE ENGINEER, AVON TOWNSHIP, POLICE DEPARTMENT, FIRE DEPARTMENT, SCHOOLS AND

UTILITY POLES TO BE BRACED AS NECESSARY (COST INCIDENTAL). CONTRACTOR TO CONTACT

- RESIDENTS 48 HOURS PRIOR TO UNDERTAKING WORK.
- THE CONTRACTOR SHALL EXERCISE CARE WHEN WORKING AROUND EXISTING TREES AND BUSHES. ANY TREE OR BUSH DAMAGED OR DESTROYED BY CONTRACTOR'S WORK ACTIVITY SHALL BE REPLACED IN KIND AS DIRECTED BY THE ENGINEER (COST INCIDENTAL).
- NO EXISTING RESIDENTIAL/BUSINESS DRIVEWAY SHALL BE BLOCKED FOR MORE THAN 4 HOURS. CONTRACTOR IS TO GIVE PROPERTY OWNER A MINIMUM OF 48 HOURS NOTICE PRIOR TO CLOSING ANY DRIVEWAYS. DOOR HANGERS ARE TO BE USED TO NOTIFY PROPERTY OWNERS.
- 10. EXISTING STORM SEWER PIPING DAMAGED BY CONTRACTOR'S CONSTRUCTION ACTIVITY SHALL BE REPLACED WITH THE SAME DIAMETER AND MATERIAL OF PIPE.
- 11. ALL CONSTRUCTION ACTIVITY SHALL BE LIMITED TO WITHIN THE PUBLIC RIGHT-OF-WAY (ROW)
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO CONTROL DUST AND MUD ASSOCIATED WITH THIS PROJECT, SEE SPECIFICATION SECTION 01000, ITEM 1,10,M FOR DETAILS
- . WATER PUMPED FROM TRENCHES, EXCAVATIONS, ETC. SHALL HAVE SUSPENDED SOLIDS REDUCED TO LIMITS NOTED IN THE SPECIFICATIONS PRIOR TO DISCHARGE INTO WATERWAYS, BODIES OF WATERS, ETC. (COST_INCIDENTAL).
- PRIOR TO START OF CONSTRUCTION CONTRACTOR SHALL INSTALL ALL REQUIRED SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES, AS DELINEATED ON THE PLANS AND AS NOTED IN
- WHEN INSTALLING WATERMAIN BY HORIZONTAL DIRECTIONAL DRILLING IT MAY BE NECESSARY TO MAKE MINOR ADJUSTMENTS TO THE PROPOSED ALIGNMENT. VARIATIONS TO THE ALIGNMENT GREATER THAN 1 FOOT SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE CONTRACTOR UNDERTAKING THAT PORTION OF THE WORK
- . THE CONTRACTOR IS REQUIRED TO NOTIFY THE OWNER OF ANY FRAC-OUTS THAT OCCUR WHILE INSTALLING ANY WATERMAIN BY THE HORIZONTAL DIRECTIONAL DRILLING METHOD. THE CONTRACTOR SHALL ENSURE THAT EQUIPMENT REQUIRED TO CONTAIN AND CLEAN UP A FRAC-OUT (VACTOR TRUCK) WILL BE AVAILABLE AT THE WORK SITE DURING ANY HORIZONTAL DIRECTIONAL DRILLING OPERATIONS.
- 17. ALL CONSTRUCTION DEBRIS AND ALL EXCESS EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF SITE AT THE CONTRACTOR'S EXPENSE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM ALL NECESSARY FIELD AND LABORATORY ANALYSES TO OBTAIN THE LICENSED PROFESSIONAL ENGINEER'S CERTIFICATION REQUIRED PER ILLINOIS PUBLIC ACT 96-1416 REGARDING CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD) REQUIREMENTS.
- 18. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL SUBMIT A PLAN TO THE OWNER /ENGINEER SHOWING ALL PROPOSED HORIZONTAL DIRECTIONAL DRILL LAUNCH AND RECEIVING PITS.
- 19. SEE TYPICAL TRENCH DETAIL FOR GRANULAR TRENCH BACKFILL REQUIREMENTS IN THIS AREA.
- 20. CONTRACTOR SHALL UTILIZE CONSTRUCTION EQUIPMENT THAT IS APPROPRIATE SIZE FOR THE WORK TO BE PERFORMED. RUBBER TRACKED EQUIPMENT SHALL BE USED FOR THIS PROJECT.
- 21. AVON TOWNSHIP MAINTENANCE OF TRAFFIC NOTES:
- AT THE END OF EACH WORK DAY CONTRACTOR SHALL ENSURE ALL CONSTRUCTION LOCATIONS ALONG ROADS ARE PASSABLE BY VEHICULAR TRAFFIC IN AT LEAST ONE DIRECTION. IF CONTRACTOR ELECTS TO BARRICADE CONSTRUCTION WORK LOCATIONS, ADEQUATE CLEARANCE FOR VEHICULAR TRAFFIC SHALL BE PROVIDED BETWEEN PROPERLY BARRICADED CONSTRUCTION LOCATIONS AND ADJACENT OFF ROAD PARKED VEHICLES.
- 21.2 AT THE END OF EACH WORK DAY, IF OFF ROAD WORK AREAS CANNOT BE RESTORED AND MADE PASSABLE TO VEHICULAR AND/OR PEDESTRIAN TRAFFIC. CONTRACTOR SHALL SECURE SAID WORK AREAWITH APPROPRIATE BARRICADES, FENCING, ETC., IN COMPLIANCE WITH OSHA AND IDOT REQUIREMENTS

POTENTIAL SEQUENCE OF CONSTRUCTION

- INSTALL ALL REQUIRED SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES.
- 2. VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION.
- CONSTRUCT NEW WATER MAIN SYSTEM, COORDINATE CONSTRUCTION ACTIVITIES AND FEMPORARY ROADWAY CLOSURES WITH LCPWD AND AVON TOWNSHIP.

FINALIZE CONNECTION BETWEEN NEW WATER MAIN AND EXISTING WATER SYSTEM.

- COORDINATE CONSTRUCTION ACTIVITY WITH OWNER AND ENGINEER 48 HOURS IN ADVANCE OF THIS WORK BEING PERFORMED. PERFORM PRESSURE TEST, FLUSHING AND CHLORINATION OF THE NEW WATER MAIN.
- UPON SATISFACTORY TEST RESULTS, THE NEW WATER MAIN CAN BE PLACED INTO
- PERFORM LAWN AND PAVEMENT RESTORATION, THEN REMOVE SESC MEASURES.

IF CONTRACTOR PROPOSES A SEQUENCE OF CONSTRUCTION THAT VARIES FROM ABOVE, IT IS TO BE SUBMITTED TO THE OWNER/ENGINEER FOR REVIEW AND APPROVAL TWO WEEKS (MIN.) PRIOR TO THE START OF CONSTRUCTION.

TES GENERAL

SYST ENTS USION

WATER PROVEME HLAND PHASE WATER

HMG ENGINEERS, INC. 975 CAMPUS DRIVE AUNDELEIN, ILLINOIS 60060

SHEET