

**SYMBOL LEGEND**

Table with 2 columns: EXISTING and PROPOSED. Lists symbols for various infrastructure elements like Storm Sewer, Sanitary Sewer, Watermain, etc.

**ABBREVIATIONS**

Table with 3 columns: AC, IE, INVERT ELEVATION. Lists abbreviations for items like AIR CONDITIONER UNIT, ASPHALT DRIVEWAY, etc.

**GENERAL NOTES**

- 1. THE GENERAL NOTES LISTED ON THESE PLANS, THE CONTRACT SPECIFICATIONS AND DRAWINGS ARE ALL PART OF THE CONTRACT DOCUMENTS...
2. ALL WORK SHALL CONFORM TO THE FOLLOWING STANDARD SPECIFICATIONS:
3. NO CONSTRUCTION PLANS SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED FOR CONSTRUCTION...

**GENERAL NOTES - CONTINUED**

- 22. THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES...
23. SPECIAL ATTENTION IS DRAWN TO THE FACT THAT ARTICLE 105.06 OF THE I.D.D.T. STANDARD SPECIFICATIONS REQUIRES THE CONTRACTOR TO HAVE A COMPETENT SUPERINTENDENT ON THE PROJECT SITE...
24. ELECTRIC, TELEPHONE, NATURAL GAS, AND OTHER UTILITY COMPANIES HAVE UNDERGROUND AND/OR OVERHEAD SERVICE FACILITIES...

**COMMONWEALTH EDISON NOTES**

- 1. THE CONTRACTOR IS TO NOTIFY EDISON'S ENGINEERING DEPARTMENT AT LIBERTYVILLE, ILLINOIS, TELEPHONE NUMBER (847)816-5412, AT LEAST 48 HOURS BEFORE COMMENCING CONSTRUCTION.
2. NO EQUIPMENT MORE THAN FIFTEEN (15) FEET IN HEIGHT SHOULD BE USED UNDER EDISON'S TRANSMISSION LINES.

**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:
1. NO EXISTING RESIDENTIAL DRIVEWAY SHALL BE BLOCKED FOR MORE THAN FOUR HOURS.
2. TRAFFIC FLOW IS TO BE MAINTAINED THROUGH THE CONSTRUCTION AREA WITH MINIMUM DISRUPTION AND NO SAFETY HAZARD...
21. 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 AREAS WITH APPROPRIATE BARRICADES, FENCING, ETC., IN COMPLIANCE WITH OSHA AND IDOT REQUIREMENTS.

**LAKE COUNTY PUBLIC WORKS WATER MAIN CONSTRUCTION REQUIREMENTS**

- 1. WATER FOR HORIZONTAL DIRECTIONAL DRILLING, PRESSURE TESTING, FLUSHING AND DISINFECTING WILL BE SUPPLIED BY THE OWNER AT NO COST TO THE CONTRACTOR WITH THE FOLLOWING REQUIREMENTS:
1A. FOR HORIZONTAL DIRECTIONAL DRILLING THE CONTRACTOR MUST USE THE FIRE HYDRANT LOCATED ACROSS THE STREET FROM THE ADDRESS: 2 SEXTANT DRIVE, THIRD LAKE, ILLINOIS 60030. THIS HYDRANT SHALL BE METERED AND OPERATED BY LAKE COUNTY PUBLIC WORKS PERSONNEL.
2. 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, ETC. 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" METER.
3. FOR PRESSURE TESTING AND DISINFECTING 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 VALVE.
4. THE WATER FOR FLUSHING SHALL BE OBTAINED AS DETAILED ON SHEET 7 OF THE PLANS.

**CONSTRUCTION NOTES:**

- 1. 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.
2. 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 SAID WORK.
3. VALVES ON EXISTING WATER MAIN SYSTEM SHALL ONLY BE OPERATED BY LCPWD PERSONNEL.
4. 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.
5. 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).
6. CONTRACTOR TO COORDINATE TEMPORARY SIDEWALK CLOSURES AND ROADWAY LANE CLOSURES WITH THE ENGINEER, AVON TOWNSHIP, POLICE DEPARTMENT, FIRE DEPARTMENT, SCHOOLS AND RESIDENTS 48 HOURS PRIOR TO UNDERTAKING WORK.
7. UTILITY POLES TO BE BRACED AS NECESSARY (COST INCIDENTAL). CONTRACTOR TO CONTACT UTILITY COMPANIES FOR REQUIREMENTS.
8. 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).
9. 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) UNLESS OTHERWISE NOTED ON THE DRAWINGS.
12. 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.
13. 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).
14. 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 THE SPECIFICATIONS.
15. 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.
16. 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 (VACUUM 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:
21.1 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 AREAS WITH APPROPRIATE BARRICADES, FENCING, ETC., IN COMPLIANCE WITH OSHA AND IDOT REQUIREMENTS.

**POTENTIAL SEQUENCE OF CONSTRUCTION**

- 1. INSTALL ALL REQUIRED SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES.
2. VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION.
3. CONSTRUCT NEW WATER MAIN SYSTEM, COORDINATE CONSTRUCTION ACTIVITIES AND TEMPORARY ROADWAY CLOSURES WITH LCPWD AND AVON TOWNSHIP.
4. 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.
5. PERFORM PRESSURE TEST, FLUSHING AND CHLORINATION OF THE NEW WATER MAIN.
6. UPON SATISFACTORY TEST RESULTS, THE NEW WATER MAIN CAN BE PLACED INTO SERVICE.
7. PERFORM LAWN AND PAVEMENT RESTORATION, THEN REMOVE SESC MEASURES.

**NOTE:** 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.

Vertical sidebar containing project details: HIGHLAND LAKE WATER SYSTEM PHASE 2 IMPROVEMENTS WATER MAIN EXTENSION, HMG ENGINEERS, INC., 975 CAMPUS DRIVE MUNDELEIN, ILLINOIS 60060, WWW.HMGENGINEERS.COM, and SHEET 2.