

GENERAL NOTES

- 1.01 ONE-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES FOR LOCAL TRAFFIC AND EMERGENCY VEHICLES. LOCAL ACCESS TO ABUTTING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. ACCESS TO ALL DRIVEWAYS SHALL ALSO BE MAINTAINED AT ALL TIMES EXCEPTING THE TIME WHEN CONCRETE PAVEMENT AND CONCRETE DRIVE APRONS ARE CURING.
 - 1.02 PART WIDTH CONSTRUCTION, ONE LANE WIDTH, SHALL BE USED DURING THE PERFORMANCE OF PAVING OPERATIONS.
 - 1.03 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SAFE AND SATISFACTORY LOCAL ACCESS, VEHICULAR AND PEDESTRIAN, TO ALL ABUTTING PROPERTIES WITHIN THE PROJECT. THE CONTRACTOR SHALL FURNISH, MAINTAIN, AND SUBSEQUENTLY REMOVE ALL NECESSARY SAFEGUARDS SUCH AS BARRICADES, BARRIERS, TEMPORARY PAVEMENT, LIGHTING, FLAGMEN, TEMPORARY GUARDRAIL, DETOUR AND CONSTRUCTION SIGNING AND OTHER TRAFFIC CONTROLS SO AS TO AVOID DAMAGE AND/OR INJURY TO AND ENSURE THE SAFETY OF VEHICLES AND PERSONS USING THE ROADWAY DURING CONSTRUCTION BOTH WITHIN AND OUTSIDE OF THE PROJECT LIMITS.
- MAINTAINING TRAFFIC SHALL BE IN ACCORDANCE WITH ODOT ITEM 614 AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. DETOUR ROUTES & SIGNAGE SHALL MEET THE APPROVAL OF THE CITY ENGINEER.
- IN ORDER TO MAINTAIN LOCAL AND DRIVEWAY ACCESS, THE CONTRACTOR SHALL FURNISH AND INSTALL TRAFFIC COMPACTED SURFACE, TYPE A OR B IN ACCORDANCE WITH ODOT ITEM 410 INCLUDING NECESSARY WATER AND CALCIUM CHLORIDE IN ACCORDANCE WITH ODOT ITEM 616 AS DIRECTED BY THE ENGINEER. NO SEPARATE PAYMENT WILL BE MADE FOR MAINTAINING TRAFFIC INCLUDING PROVIDING TRAFFIC COMPACTED SURFACES, OTHER TEMPORARY ROADWAYS, TRAFFIC CONTROL, AND ALL OTHER SAFEGUARDS. COST FOR MAINTAINING TRAFFIC INCLUDING ALL MATERIALS, LABOR AND EQUIPMENT FOR CONSTRUCTION, MAINTENANCE AND SUBSEQUENT REMOVAL SHALL BE INCLUDED IN THE UNIT PRICES STIPULATED FOR THE VARIOUS ITEMS OF THE PROPOSAL.
 - 1.04 MATERIALS OF WORK FOR "AS DIRECTED" ITEMS SHALL NOT BE ORDERED FOR THE DELIVERY TO THE PROJECT OR WORK PERFORMED UNTIL AUTHORIZED BY THE ENGINEER.
 - 1.05 MANHOLES, CATCH BASINS, MONUMENT BOXES, WATER VALVE BOXES AND OTHER STREET CASTING WILL BE RAISED OR LOWERED FLUSH WITH THE NEW SURFACE. ANY METER OR VALVE BOX ENCOUNTERED WITHIN THE WORK SITE SHALL BE EXPOSED. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS OF WORK EXCEPT WHEN BID AS A SEPARATE ITEM.
 - 1.06 BEFORE THE CITY WILL APPROVE AND ACCEPT THE WORK AND RELEASE THE GUARANTY RETAINER, THE CONTRACTOR SHALL FURNISH THE CITY A WRITTEN REPORT INDICATING THE RESOLUTION OF ANY AND ALL PROPERTY DAMAGE CLAIMS FILED WITH THE CONTRACTOR BY ANY PARTY DURING THE CONSTRUCTION PERIOD. THE INFORMATION TO BE SUPPLIED SHALL INCLUDE, BUT NOT BE LIMITED TO, NAME OF CLAIMANT, DATE FILED WITH CONTRACTOR, NAME OF INSURANCE COMPANY AND/OR ADJUSTOR HANDLING CLAIM, HOW CLAIM WAS RESOLVED AND IF CLAIM WAS NOT RESOLVED FOR THE FULL AMOUNT, A STATEMENT INDICATING THE REASON FOR SUCH ACTION.
 - 1.07 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO APPLY WHEN ORDERED BY THE OWNER WATER OR CALCIUM CHLORIDE FOR THE ALLEVATION OR PREVENTION OF DUST NUISANCE ORIGINATING FROM HIS CONSTRUCTION ACTIVITIES. SUFFICIENT QUANTITIES OF CALCIUM CHLORIDE SHALL BE STORED ON THE JOB SITE AT ALL TIMES TO BE USED FOR DUST CONTROL. THE COST OF DUST CONTROL SHALL BE INCLUDED IN THE UNIT BID PRICES FOR ALL ITEMS OF THE PROPOSAL.
 - 1.08 NO SLAG PRODUCTS SHALL BE UTILIZED ON THIS PROJECT.

SEWER INSTALLATION

- 2.01 ALL SANITARY SEWER 21" AND UNDER AND ALL STORM SEWER 10" AND UNDER SHALL BE ASTM C 700 EXTRA STRENGTH CLAY PIPE WITH ASTM C 425 RESILIENT AND FLEXIBLE (PREMIUM) JOINTS UNLESS OTHERWISE SHOWN ON THE PLANS. ALL STORM SEWER 12" TO 18" SHALL BE ASTM C 76 REINFORCED CONCRETE SEWER PIPE, CLASS IV, WITH ASTM C 443 RESILIENT AND FLEXIBLE (PREMIUM) JOINTS UNLESS OTHERWISE SHOWN ON THE PLAN. ALL STORM SEWER 21" AND GREATER SHALL BE ASTM C 76 REINFORCED CONCRETE PIPE, CLASS III, WITH ASTM C 443 RESILIENT AND FLEXIBLE (PREMIUM) UNLESS OTHERWISE SHOWN ON THE PLAN.
 - 2.02 THE LOCATION OF STORM, SANITARY AND WATER HOUSE LATERALS SHOWN ON THE PLANS ARE APPROXIMATE. CONTRACTOR SHALL FIELD LOCATE ALL EXISTING STORM, SANITARY AND WATER HOUSE LATERALS AT NO ADDITIONAL COST TO THE CITY. ON LOTS WHERE MULTIPLE CONNECTIONS EXIST, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WHICH CONNECTION(S) IS ACTIVE. THE COST OF VERIFICATION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONNECTIONS. THE CURB SHALL BE MARKED WITH A SAWCUT SYMBOL THAT IDENTIFIES THE LOCATION OF THE NEW TEST TEES, (+) FOR STORM AND (Δ) FOR SANITARY.
 - 2.03 THE COST OF THE REMOVAL AND DISPOSAL OF EXISTING SANITARY AND STORM SEWER, HOUSE LATERALS AND APPURTENANCES THERETO SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE REPLACEMENT ITEMS.
 - 2.04 ALL ACTIVE CONNECTIONS AND HOUSE LATERALS ENCOUNTERED SHALL BE CONNECTED TO THE NEW FACILITIES, EVEN THOUGH NOT SHOWN ON THE PLANS.
 - 2.05 THE MAINLINE SANITARY AND STORM SEWERS SHALL BE VISUALLY INSPECTED TWICE BY MEANS OF TELEVISION AND RECORDING ON VHS FORMAT VIDEOTAPE ALONG WITH AUDIO COMMENTARY. THE TELEVISION AND VIDEOTAPE RECORDING SHALL BE PERFORMED ONCE BEFORE PAVING OPERATIONS BEGIN AND ONCE AFTER THE CONCRETE PAVEMENT IS IN PLACE AND OPENED TO TRAFFIC. TELEVISION SHALL BE AS PER SPECIFICATION 02204.
- ANY DEFECT IN MATERIAL OR WORKMANSHIP REVEALED BY THE VISUAL-AID INSPECTION MUST BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE CITY AND TO THE FULL SATISFACTION OF THE CITY AND ENGINEER BEFORE ACCEPTANCE OF THE WORK AND RELEASE OF FINAL ESTIMATE AND PAYMENT THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TOTAL COST OF CLEANING ALL SEWERS PRIOR TO VISUAL INSPECTION. COST OF TELEVISION AND VIDEOTAPE OPERATION SHALL BE INCLUDED IN THE UNIT PRICES STIPULATED FOR THE VARIOUS ITEMS OF THE PROPOSAL.

- 2.06 ALL EXCAVATION SHALL BE CONSIDERED UNCLASSIFIED. NO COMPENSATION SHALL BE ALLOWED THE CONTRACTOR FOR ROCK OR SHALE EXCAVATION.
 - 2.07 ALL BACKFILL SHALL BE AS DESCRIBED IN SPECIFICATION SECTION 02234 "COMPACTED BACKFILL" OR SECTION 02235 "COMPACTED GRANULAR BACKFILL" PLACED AND COMPACTED, USING MACHINE MOUNTED COMPACTION EQUIPMENT TO MEET THE COMPACTION REQUIREMENT OF 100% DENSITY AT OPTIMUM MOISTURE PER ASTM D 698. ALL BACKFILL, REGARDLESS OF MATERIALS USED, MAY BE TESTED BY THE ENGINEER TO ASSURE THE OWNER THAT THE COMPACTION REQUIREMENT IS MET.
- THE ENGINEER WILL DETERMINE THE DEPTH OF THE COMPACTED LAYERS OF BACKFILL ACCORDING TO THE COMPACTION EQUIPMENT BEING USED BY THE CONTRACTOR. HE SHALL ORDER THE REMOVAL, REFILLING, RECOMPACTION AND RETESTING OF ALL BACKFILL NOT MEETING THE REQUIREMENTS OF THE CONTRACT.
- THE OWNER AND THE ENGINEER DO NOT GUARANTEE NOR SUGGEST THE INSTU MATERIAL TO BE EXCAVATED WILL BE SUITABLE OR IN ITS PRESENT STATE WILL CONSIST OF THE PROPER MOISTURE CONTENT TO ACHIEVE THE COMPACTION REQUIREMENTS. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE BACKFILL MATERIAL HE WILL USE. UPON REQUEST, THE OWNER WILL PROVIDE ACCESS TO THE SITE FOR THE CONTRACTOR TO CONDUCT SUCH INVESTIGATION AND TESTS DEEMED NECESSARY TO MAKE HIS DETERMINATION. NO EXTRA PAYMENT WILL BE MADE TO DISPOSE OF UNSUITABLE MATERIAL OR FURNISH AND PLACE SUITABLE MATERIAL MEETING THE REQUIREMENTS OF SECTION 02234 "COMPACTED BACKFILL" OR SECTION 02235 "COMPACTED GRANULAR BACKFILL".
- 2.08 BACKFILLING OF TRENCHES OR EXCAVATIONS SHALL NOT BE PERMITTED WITHOUT MACHINE MOUNTED COMPACTION EQUIPMENT BEING USED.
 - 2.09 SLAG PRODUCTS WILL NOT BE PERMITTED FOR BEDDING OR BACKFILL MATERIAL.
 - 2.10 ALL UTILITY LINES CROSSING THE NEW SEWER TRENCH, I.E. STORM SEWERS, STORM LATERALS, SANITARY SEWERS, SANITARY LATERALS, WATER MAINS, WATER SERVICE CONNECTIONS, GAS MAINS, GAS SERVICE CONNECTIONS, UNDERGROUND OBT CONDUITS, CABLE T.V. LINES SHALL BE PROTECTED AND SUPPORTED WITH HARDWOOD PLANKS OR REMOVED AND REPLACED, RECONNECTED AND SUPPORTED ACROSS THE ENTIRE WIDTH OF THE TRENCH. NO ADDITIONAL COMPENSATION WILL BE PAID FOR THE ABOVE WORK.
 - 2.11 ALL EXISTING SEWER CASTINGS REMOVED ON THIS PROJECT SHALL REMAIN THE PROPERTY OF THE CITY OF WICKLIFFE AND SHALL BE DELIVERED BY THE CONTRACTOR TO A SITE DESIGNATED BY THE CITY.

ROADWAY EXCAVATION AND PAVEMENT

- 3.01 ALL PAVEMENT REMOVAL AND REPLACEMENT, NEW PAVEMENT AND ASSOCIATED ROADWAY WORK SHALL BE IN ACCORDANCE WITH THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION, HERINAFTER REFERRED TO AS "ODOT", CONSTRUCTION AND MATERIAL SPECIFICATIONS, STANDARD CONSTRUCTION DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS, LATEST ISSUE, WITH THE MODIFICATIONS AS SET FORTH IN THESE SPECIFICATIONS.
 - 3.02 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER FORTY-EIGHT (48) HOURS IN ADVANCE OF BEGINNING WORK WHICH REQUIRES COMPACTION TESTING AND/OR PRE-POUR INSPECTION PRIOR TO PLACEMENT OF REINFORCED CONCRETE PAVEMENT. WORK WILL NOT BEGIN UNTIL TESTING AND/OR INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE ENGINEER.
 - 3.03 PART WIDTH CONSTRUCTION AS DESCRIBED IN GENERAL NOTE 1.02 SHALL BE USED FOR PAVING OPERATIONS. PAVING OPERATIONS SHALL NOT BEGIN ON THE OPPOSITE LANE(S) UNTIL DRIVE APRONS ARE INSTALLED AND OPEN TO TRAFFIC ON THE STARTING SIDE.
 - 3.04 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE BARRICADE DEVICES TO PREVENT VEHICULAR TRAFFIC ON NEW CONCRETE PAVEMENT AND APRONS UNTIL THE END OF THE CURE PERIOD OR THE SPECIMEN TEST BEAMS HAVE ATTAINED A MODULUS OF RUPTURE OF 600 PSI.
 - 3.05 A MINIMUM OF TWO (2) PROOF ROLLINGS WILL BE REQUIRED AS DIRECTED BY THE ENGINEER BEFORE PAVING. THE FIRST PROOF ROLLING SHALL BE PERFORMED AFTER THE INSTALLATION OF ALL UNDERGROUND IMPROVEMENTS AND ROUGH GRADING HAS BEEN COMPLETED. AFTER FINE GRADING, JUST PRIOR TO PAVING, THE SUBGRADE SHALL BE PROOF ROLLED AGAIN. A PROOF ROLLING SHALL CONSIST OF TRAVELING THE ENTIRE AREA OF THE PREPARED SUBGRADE. THE MAXIMUM SPACING BETWEEN PASSES SHALL NOT EXCEED SIX (6) FEET.
- MOISTURE CONTENT OF THE SUBGRADE AT THE TIME OF PROOF ROLLING SHALL CONFORM TO SECTION 203.11 OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS.
- WHERE THIS OPERATION SHOWS THE SUBGRADE TO BE UNSTABLE OR TO HAVE NON-UNIFORM STABILITY, THE CONTRACTOR SHALL CORRECT THE UNSTABLE AREAS AS DIRECTED BY THE ENGINEER.
- THE MINIMUM EQUIPMENT SHALL CONSIST OF A SINGLE UNIT, TANDEM AXLE DUMP TRUCK CAPABLE OF BEING LOADED TO 30,000 POUND AXLE LOAD, 60,000 POUND GVW. TIRE PRESSURE SHALL BE MAINTAINED AT 90 PSI OR AS SPECIFIED UNDER SECTION 203.14 OF ODOT SPECIFICATIONS.
- ANY AREA PERMITTING TIRES TO LEAVE A GROOVE OF ONE (1) INCH OR MORE SHALL BE UNACCEPTABLE FOR PAVING.
- ANY AREA PERMITTING THE TEST VEHICLE TIRES TO LEAVE A GROOVE OF ZERO (0) TO ONE-HALF (1/2) INCH DEEP SHALL BE ACCEPTABLE.
- ANY AREA PERMITTING THE TEST VEHICLE TIRES TO LEAVE A GROOVE OF ONE-HALF (1/2) INCH TO ONE (1) INCH DEEP SHALL BE AT THE ENGINEER'S DISCRETION.
- 3.06 JOINT AND CRACK SEALER FOR CONCRETE PAVEMENT SHALL MEET THE REQUIREMENTS OF ODOT ITEM 705.04 AND ASTM D 3405. A DOUBLE BOILER SHOULD BE USED FOR HEATING THE MATERIAL.
- 3.07 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SUFFICIENT SECURITY MEASURES AND/OR PERSONNEL TO PROTECT ALL NEW CONCRETE WORK FROM VANDALISM AT NO ADDITIONAL COST TO THE CITY. ANY VANDALIZED CONCRETE SHALL BE REPLACED IN FULL AT THE CONTRACTOR'S EXPENSE.

EXISTING UTILITIES

- 4.01 THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE CITY OF WICKLIFFE AND THE LAKE COUNTY DEPARTMENT OF UTILITIES DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS.
 - 4.02 BEFORE ANY WORK IS STARTED THAT WILL INTERFERE WITH THE EXISTING UTILITIES, THE CONTRACTOR SHALL CALL THE "OHIO UTILITIES PROTECTION SERVICE", AT 1-800-362-2764, FORTY-EIGHT (48) HOURS IN ADVANCE OF THE WORK. THE FOLLOWING REFERENCE NUMBER HAS BEEN ASSIGNED TO THIS PROJECT BY THE OHIO UTILITIES PROTECTION SERVICE IN RESPONSE TO THE ENGINEERS PRE-PLANNING INQUIRY: 1008-076-046. NON-MEMBER UTILITIES MUST BE CONTACTED DIRECTLY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS, AT NO ADDITIONAL EXPENSE TO THE CITY OF WICKLIFFE, TO AVOID DAMAGE TO EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES DURING THE ENTIRE PROJECT. IN THE EVENT OF DAMAGE TO EXISTING PUBLIC AND/OR PRIVATE UTILITIES, THE AGENCY CONCERNED SHALL BE NOTIFIED IMMEDIATELY AND ALL REPAIR WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE AGENCY AT NO ADDITIONAL EXPENSE TO THE CITY OF WICKLIFFE, INCLUDING ANY INSPECTION FEES OR MAINTENANCE CREWS.
 - 4.03 THE FOLLOWING UTILITIES ARE KNOWN TO BE LOCATED WITHIN THE WORK LIMITS OF THE PROJECT
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| <p>OUPS MEMBER:</p> <p>EAST OHIO GAS COMPANY
1201 EAST 55TH STREET
CLEVELAND, OHIO 44103
(216) 736-6675</p> <p>THE ILLUMINATING COMPANY
7757 AUBURN RD.
CONCORD TOWNSHIP, OHIO 44077
(216) 479-3706</p> <p>NON-OUPS MEMBERS:</p> <p>MEDIA ONE
7820 DIVISION DRIVE
MENTOR, OHIO 44060
(216) 974-3222</p> | <p>AMERITECH
13630 LORAIN AVE., RM. 400
CLEVELAND, OHIO 44111
(216) 587-6206</p> <p>LAKE COUNTY DEPT. OF UTILITIES(WATERMAIN)
LAKE COUNTY ADMINISTRATION CENTER
105 MAIN STREET
PAINESVILLE, OHIO 44077
(216) 350-2652</p> <p>CITY OF WICKLIFFE(STORM & SANITARY SEWERS)
7830 RIDGE ROAD
WICKLIFFE, OHIO 44092
(440) 943-7125</p> |
|---|---|
- 4.04 WHERE EXISTING POWER OR TELEPHONE POLES ARE IN CLOSE PROXIMITY TO WORK, THE CONTRACTOR SHALL COORDINATE HIS WORK EFFORTS WITH THOSE OF THE UTILITY COMPANIES SUCH THAT THE MAINTENANCE OF THEIR EXISTING FACILITIES CAN BE MAINTAINED AND PROTECTED DURING THE TIME WORK IS GOING ON ADJACENT TO THE POLE.
- THE COST FOR ANY REQUIRED PROTECTION OR RELOCATION OF EXISTING POWER OR TELEPHONE POLES SHALL NOT BE THE RESPONSIBILITY OF THE CITY OF WICKLIFFE.
- DELAYS TO THE CONTRACTOR AS A RESULT OF TIMING OF POLE RELOCATION OR PROTECTION SHALL NOT BE CONSIDERED COMPENSABLE DELAYS, AS IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS WORK IN CONFORMANCE TO THE UTILITY COMPANY'S SCHEDULE.

WATER WORKS

- 5.01 EACH BID PROPOSAL MUST BE ACCOMPANIED BY A COPY OF THE BIDDERS OR THEIR INTENDED WATERMAIN SUBCONTRACTORS CURRENT SEWER/WATER BUILDERS LICENSE WHICH HAS BEEN ISSUED BY THE LAKE COUNTY DEPARTMENT OF UTILITIES.
- 5.02 ALL WATER MAINS WITHIN THE PROJECT AREA BELONG TO LAKE COUNTY AND FALL UNDER THE CONTROL OF THEIR WATER DEPARTMENT.
- 5.03 ANY AND ALL CONSTRUCTION OF WATER MAIN FACILITIES REQUIRED BY THIS PROJECT IS TO BE GOVERNED BY THE DRAWINGS AND SPECIFICATIONS FOR THIS JOB WHICH, IN THE EVENT OF A DISCREPANCY, SUPERSEDE THE LAKE COUNTY STANDARD WATERLINE SPECIFICATIONS.
- 5.04 THE CONTRACTOR SHALL SCHEDULE WITH THE LAKE COUNTY WATER DEPARTMENT AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY WORK ON THEIR SYSTEMS.
- 5.05 INSPECTION SERVICES SHALL BE PERFORMED BY THE LAKE COUNTY WATER DEPARTMENT. THE COST OF INSPECTION SHALL BE INCLUDED AS PART OF THIS CONSTRUCTION PROJECT AT A RATE OF \$275.00 PER EIGHT-HOUR DAY. THE COST FOR LAKE COUNTY INSPECTION FEES AND OTHER FEES SHALL BE INCLUDED IN THE UNIT PRICES BID FOR OTHER WATERLINE ITEMS. OVERTIME, WEEKENDS AND HOLIDAYS SHALL BE AT A RATE OF 1.5 THE BASE RATE.
- 5.06 THE TYPICAL BURY DEPTH FOR THIS PROJECT IS (6) FEET. MINIMUM BURY DEPTH IS FIVE (5) FEET OF COVER OVER THE TOP OF THE PIPE. BURY DEPTH SHALL BE ADJUSTED BY VERTICAL JOINT DEFLECTION FROM THE MINIMUM FIVE (5) FEET TO SEVEN (7) FEET TO AVOID CONFLICTS WITH EXISTING SEWER SERVICE LATERALS AT NO ADDITIONAL COST OR DEDUCTION TO THE CONTRACT. HIGH POINTS SHALL BE PROVIDED AT HYDRANT LOCATIONS. HYDRANT ASSEMBLY BURY DEPTH SHALL CONFORM TO THE 5'-6" MINIMUM BURY DEPTH REQUIREMENT.
- 5.07 PRIOR TO INSTALLATION OF WATERMAIN THE CONTRACTOR SHALL FIELD VERIFY THE DEPTH OF EXISTING WATERMANS AND SEWERS AT LOCATIONS WHERE NEW WATERMAIN IS PROPOSED TO CROSS. THE NEW WATERMAIN ELEVATION SHALL BE ADJUSTED BY VERTICAL JOINT DEFLECTION FROM THE SIX (6) FOOT TYPICAL BURY DEPTH ONE (1) FOOT EITHER WAY BUT IN NO CASE HIGHER THAN THE MINIMUM FIVE (5) FOOT BURY DEPTH TO AVOID CROSSING CONFLICTS WITH THE EXISTING WATERMAIN AND SEWERS AT NO ADDITIONAL COST TO THE CONTRACT. IF DEPTH ADJUSTMENT BY VERTICAL JOINT DEFLECTION IS NOT POSSIBLE TO AVOID CROSSING CONFLICTS THE PROPOSED WATERMAIN SHALL BE LOWERED IN ACCORDANCE WITH THE PIPE LOWERING DETAIL.
- 5.08 ALL HYDRANTS SHALL BE POSITIONED SO THAT THE STEAMER NOZZLES POINT IN THE DIRECTION SHOWN ON THE PLANS.
- 5.09 HYDRANTS DESIGNATED FOR REMOVAL SHALL BE REMOVED UNDER LAKE COUNTY WATER DEPARTMENT SUPERVISION. SPECIAL CARE IN REMOVAL AND HANDLING OF EXISTING HYDRANTS SHALL BE MAINTAINED AT ALL TIMES AND REMOVAL OF EXISTING HYDRANTS IS TO BE DONE BY EXCAVATION OF HYDRANT ASSEMBLY ONLY.
- 5.10 ALL REMOVED HYDRANTS SHALL BECOME THE PROPERTY OF THE LAKE COUNTY WATER DEPARTMENT. REMOVED HYDRANTS ARE TO BE STORED ON JOB SITE FOR PICK-UP BY THE LAKE COUNTY WATER DEPARTMENT. CONTACT AQUARIUS SERVICE CENTER TO SCHEDULE PICK-UP.

- 5.11 WHEN CONNECTING A NEW HYDRANT BARREL TO AN EXISTING WATER MAIN WITH A TAPPING SLEEVE AND VALVE ASSEMBLY, AN ADDITIONAL 6" GATE VALVE SHALL BE INSTALLED WITHIN THE HYDRANT CONNECTION NEAR THE HYDRANT, AS SHOWN IN THE STANDARD DETAILS.
 - 5.12 THE LAKE COUNTY WATER DEPARTMENT SHALL PROVIDE WATER FOR FILLING THE NEW WATER MAIN WITHOUT COST TO THE CONTRACTOR FOR THE INITIAL FILLING OPERATION. ALL WATER FOR ANY FLUSHING OPERATIONS SHALL BE PAID FOR BY THE CONTRACTOR AT A RATE OF \$2.60 PER 100 CUBIC FEET OF WATER USED.
 - 5.13 ALL WATER SERVICE CONNECTIONS WHICH ARE BROKEN BY THE CONTRACTOR SHALL BE REPAIRED BY THE LAKE COUNTY WATER DEPARTMENT OR THE CONTRACTOR, ALL AT THE CONTRACTOR'S EXPENSE. ALL RECONNECTED WATER SERVICE CONNECTIONS SHALL BE TAPPED INTO THE NEW WATER MAIN AND DOCUMENTED AS SUCH. ALL NEW SERVICE CONNECTIONS SHALL BE MINIMUM 3/4" TYPE K COPPER, REGARDLESS OF THE BROKEN SERVICE CONNECTION MATERIAL. ALL EXISTING WATER SERVICE CONNECTIONS SHALL BE REPLACED WITH NEW TYPE K COPPER FROM PROPOSED MAIN TO CURB BOX. NO UNION COUPLINGS ARE ACCEPTABLE. ALL NEW SERVICE CONNECTIONS SHALL HAVE 48" OF COVER. ALL CURB STOPS SHALL BE INSTALLED IN THE TRELAWN WHERE PRACTICAL.
 - 5.14 ALL SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR PRELIMINARY CHECKING. THE ENGINEER SHALL FORWARD CHECKED SHOP DRAWINGS TO THE LAKE COUNTY WATER DEPARTMENT FOR FINAL CHECKING AND APPROVAL.
 - 5.15 LOCATION OF STERILIZATION AND TESTING CONNECTIONS AT VALVES SHALL BE AS DIRECTED BY THE LAKE COUNTY WATER DEPARTMENT AND ALL COSTS ASSOCIATED WITH PLACING AND UTILIZING SAID STERILIZATION AND TESTING CONNECTIONS SHALL BE INCLUDED IN THE PRICE BID PER LINEAL FOOT OF THE WATER MAINS.
 - 5.16 ALL WATER MAIN PIPE SHALL BE DUCTILE IRON PIPE, ANSI A21.51, THICKNESS CLASS 52, WITH PUSH-ON JOINTS, WITH 8-MIL POLYETHYLENE ENCASEMENT WRAP, CEMENT LINED ANSI A21.4 EXCEPT THE FOLLOWING LENGTHS WHICH SHALL BE RESTRAINED WITH MEGALUG 1100 SERIES MECHANICAL JOINT RESTRAINTS OR APPROVED EQUAL:
 - STA. 10+26 TO STA. 10+56
 - STA. 14+14 TO STA. 14+60
 - STA. 17+95 TO STA. 18+41
 - STA. 21+07 TO STA. 21+89
 FITTINGS TO BE DUCTILE IRON MECHANICAL JOINTS ANSI 21.11 UNLESS OTHERWISE SHOWN ON THE PLANS. ALL DUCTILE IRON FITTINGS SHALL BE STANDARD FULL BODY LENGTH.
 - 5.17 THE WATER MAIN PIPE WITHIN THE PROPOSED CASING PIPE SHALL BE THICKNESS CLASS 56 WITH MANUFACTURED RESTRAINED JOINTS.
 - 5.18 ALL BOLTS UTILIZED ON WATER MAIN IMPROVEMENTS SHALL HAVE ZINC PROTECTOR CAPS. COST OF FURNISHING AND PLACING ZINC PROTECTOR CAPS SHALL BE INCLUDED IN THE UNIT BID PRICES FOR OTHER WATER MAIN ITEMS OF WORK.
 - 5.19 BACKFILL OF WATER MAIN TRENCHES SHALL BE IN ACCORDANCE WITH SEWER INSTALLATION NOTES 2.07, 2.08 AND 2.09.
 - 5.20 ALL HYDRANTS PROVIDED SHALL BE 5'-6" BURY DEPTH (BURY LINE TO BOTTOM OF HYDRANT SHOE) WITH EXTENSIONS PROVIDED TO THE WATERMAIN DEPTH SHOWN IN THE PLANS.
 - 5.21 THE WICKLIFFE FIRE PREVENTION BUREAU IS TO BE NOTIFIED WHEN WATER WORK IS STARTED. (943-7141)
 - 5.22 AN ACCEPTANCE TEST IS REQUIRED ON ALL NEW FIRE SERVICE MAINS. WHEN REQUESTING WITNESS FOR TEST, NOTIFY THE FIRE PREVENTION BUREAU 48 HOURS PRIOR TO DATE AND TIME DESIRED. (943-7141)
 - 5.23 SERVICE RECONNECTIONS TO EXISTING METER VAULTS SHALL BE MADE BETWEEN THE NEW MAIN AND THE EXISTING VAULT. WHERE EXISTING VAULTS ARE EN-COUNTERED IN DRIVE APRONS, THEY SHALL BE EXPOSED AND A FIELD DECISION MADE AS TO WHETHER THE VAULT CAN BE RELOCATED TO THE TRELAWN. IF SUCH WORK IS REQUIRED, PAYMENT WILL BE MADE ON A TIME AND MATERIALS BASIS FOR EXTRA WORK.
 - 5.24 WHEN ADJUSTING VALVE BOXES TO GRADE, IF VALVE BOX CANNOT BE ADJUSTED PROPERLY PER L.C.D.U. A NEW BOX SHALL BE INSTALLED.
 - 5.25 ABANDONMENT OF THE EXISTING WATERMAIN SHALL BE MADE AS CLOSE TO THE LIVE MAIN AS POSSIBLE. THIS SHALL BE DETERMINED BY L.C.D.U.
- GRASS RESTORATION**
- 6.01 PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL INVENTORY TRELAWNS FOR EXISTING ORNAMENTAL LANDSCAPE FEATURES INCLUDING LAWN SPRINKLER SYSTEMS AND IRON PINS. ANY LANDSCAPE FEATURE DISTURBED OR DAMAGED BY THE CONTRACTOR'S ACTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION. COST OF INVENTORY AND RESTORATION SHALL BE INCLUDED IN THE UNIT BID PRICE FOR LAWN RESTORATION.
 - 6.02 RESTORATION OF TRELAWNS AND GRASS AREAS IN EASEMENTS SHALL BE PERFORMED BY A LANDSCAPE CONTRACTOR TO BE APPROVED BY THE CITY ENGINEER AND SERVICE DIRECTOR. THE LANDSCAPE CONTRACTOR MUST BE EXPERIENCED IN COMMERCIAL INSTALLATIONS AND PROVIDE REFERENCES AND OTHER DETAILED INFORMATION TO ENABLE THE OWNER TO JUDGE HIS EXPERIENCE AND CAPABILITY TO PERFORM THE WORK.
- GRASS AREAS TO BE RESTORED SHALL BE SEEDED UNLESS OTHERWISE SHOWN ON THE CONTRACT DRAWINGS.
- THE SEED SHALL BE PLACED ON A FOUR (4) INCH BED OF COMPACTED TOPSOIL THAT HAS BEEN RAKED AND BROUGHT TO AN EVEN SURFACE.
- TOPSOIL SHALL BE SHREDDED AND BE FREE OF ROOTS AND WEEDS. THE CONTRACTOR SHALL PROVIDE TOPSOIL SAMPLES AND SOURCES OF SUPPLY TO THE ENGINEER FOR APPROVAL PRIOR TO DELIVERY OF THE MATERIAL TO THE JOB SITE.
- MAINTENANCE OF TRAFFIC & CONSTRUCTION PHASING**
- ONE LANE SHALL BE MAINTAINED AT ALL TIMES FOR LOCAL TRAFFIC AND EMERGENCY VEHICLES.
- THE CONTRACTOR SHALL COORDINATE HIS WORK TO ALLOW FOR ONE-WAY TRAFFIC AT ALL TIMES DURING CONSTRUCTION.
- LISTED BELOW IS THE PROPOSED CONSTRUCTION PHASING SCHEDULE. ALTERATIONS TO THIS SCHEDULE MAY BE MADE ONLY WITH PRIOR APPROVAL OF THE CITY OF WICKLIFFE:
1. INSTALL SANITARY AND STORM SEWER MAINLINE AND SERVICE LATERALS.
 2. INSTALL WATERMAIN.
 3. INSTALL WATER SERVICE CONNECTIONS.
 4. INSTALL STORM SEWER CATCH BASIN RUNS.
 5. PAVING OPERATIONS.

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REV. NO.	DESCRIPTION	DATE	BY	CHK'D.

LLOYD ROAD IMPROVEMENTS
CITY OF WICKLIFFE, LAKE COUNTY, OHIO

DATE:	2-15-00
DRAWN BY:	J.R.R.
CHECKED BY:	P.J.F.
APPROVED BY:	P.J.F.
F.B. No.	PG.

GENERAL NOTES

SCALE	NONE
CONTRACT No.	98367
SHEET NO.	2
OF	20