

# **CITY OF REYNOLDSBURG, OHIO**

## **GENERAL NOTES**

### **SANITARY SEWER**

**SPECIFICATIONS:** All workmanship and materials shall conform to the current specifications of the City of Reynoldsburg, Ohio.

**PERMITS:** The Contractor shall obtain all necessary permits. All necessary permits and licenses shall be obtained from the office of the Director of Public Service, City of Reynoldsburg, Ohio, prior to construction.

**SAFETY REQUIREMENTS:** The Contractor and Subcontractor shall be solely responsible for complying with all federal, state, and local safety requirements, together with exercising precautions at all times for the protection of persons (including employees) and property. It is also solely the responsibility of the Contractor and Subcontractor to initiate, maintain, and supervise all safety requirements, precautions, and programs in connection with the work.

**SANITARY FACILITIES:** The Contractor shall furnish and maintain sanitary convenience facilities for the workmen and inspectors for the duration of the work.

**DELIVER PLANS:** It shall be the Contractor's responsibility to insure that the City of Columbus, Construction Inspection Division, receives a set of plans prior to the start of construction. Please contact: Construction Inspection Division, City of Columbus, 1800 E. 17th Avenue, Columbus, Ohio 43219.

**CONCRETE PIPE AND STRUCTURE INSPECTION:** All precast concrete products shall be inspected at the location of manufacture. Approved precast products shall be stamped or have such identification noting that said products have been inspected by the City of Columbus and meet their specifications. Precast concrete products without proper identification of inspection will not be permitted for installation.

**EASEMENTS:** Approval of this plan is contingent on all easements required for the construction of the work being secured and submitted to the City of Reynoldsburg for recording prior to commencement of the work, and no work which requires an easement will be allowed to proceed until this has been done.

**CLEAN WATER CONNECTIONS PROHIBITED:** Roof drains, foundation drains, and other clean water connections to the sanitary sewer system are prohibited on this project.

**REPLACEMENT OF DRAIN TILES AND STORM SEWERS:** All drain tile and storm sewers damaged, disturbed, or removed as a result of the Contractor's operations shall be replaced with the same quality pipe or better, maintaining the same gradient as existing. Replaced drain tile shall be laid on compacted bedding equal in density to surrounding stratum. Replacement shall be done at the time of the backfill operation. Cost of this work to be included in the price bid for the various items.

**MAINTAIN DRAINAGE:** The flow in all sewers, drains, and watercourses encountered shall be maintained by the Contractor at his own expense, and whenever such watercourses and drains are disturbed or destroyed during the prosecution of the work, they shall be restored by the Contractor at his own cost and expense, unless specific provision is made within the Contract Documents for the measure of and payment for such cost specific items, to a condition satisfactory to the Engineer.

**DEWATERING:** Any well, well point, pit, or other device installed for the purpose of lowering the groundwater level to facilitate construction of this project shall be properly abandoned in accordance with the provisions of Section 3745-9-10 of the Ohio Administrative Code or in accordance with the provision of this plan or as directed by the Service Director or his representative.

**OUPS NOTIFICATION:** The Contractor shall cause notice to be given to the Ohio Utility Protection Service (telephone number (800) 362-2764 - toll free) and to the Owners of the utility facilities shown on the plan who are not members of a registered underground protection service in accordance with Section 153.64 of the Revised Code. Said notices shall be given at least two (2) working days prior to the start of construction.

**EXISTING UTILITIES:** The identity and location of the existing underground utility facilities known to be located in the construction area have been shown on the plans as accurately as provided by the Owner of the utility. The City of Reynoldsburg and/or the Engineer assumes no responsibility as to the accuracy of the locations or the depths of the underground facilities whether shown on the plans or not.

Support, protection and restoration of all existing utilities and appurtenances shall be the responsibility of the Contractor. The cost of this work shall be included in the price bid for the various items.

**MISCELLANEOUS WORK:** All items of work called for on the plans for which no specific method of payment is provided shall be performed by the Contractor and the cost of same shall be included in the price for the various related items.

**SEWER PIPE MATERIAL:** The minimum requirement for sewer pipe on this project shall be PVC plastic sewer pipe, ASTM D-3034, SDR-35, unless otherwise noted on the plans.

**PAVEMENT CROSSINGS:** Where the sanitary sewer crosses a proposed or existing pavement, the trench shall be backfilled with granular material meeting the gradation set forth in Item 304, and compacted in accordance with Item 603.09, from the bottom of the trench to a plane 6" below the subgrade. The limits of placement shall be from five (5) feet beyond the edge of pavement or back of curb to five (5) feet beyond the edge of pavement or back of curb. All other trench backfill shall be compacted to a soil density at least equal to that of the adjacent undisturbed soil in the area. Granular material shall be used above the top of the pipe to a sufficient depth to achieve adequate compaction without crushing the pipe.

**STORM SEWER CROSSINGS:** Where the sanitary sewer crosses a proposed storm sewer, the trench shall be backfilled to the bottom of the proposed storm sewer with granular material meeting the gradation set forth in Item 304, and compacted in accordance with Item 603.09, for a distance of 10' lineal centered on the storm sewer. The cost of this work is to be included in the price bid for the various sewer items.

**CASTINGS SET TO GRADE:** Manhole tops shall be built or subsequently adjusted to meet surface grades established for the development/project. The cost of this work is to be included in the price bid for the various sewer items.

**TEMPORARY BULKHEAD:** The Contractor shall install a temporary bulkhead, where directed on the plans, prior to construction of the proposed sanitary sewers and shall maintain same until said sewers are accepted by the Engineer.

**SEWER PIPE INSTALLATION:** All sewer pipe shall be laid with stone or gravel backing as shown on Standard Construction Drawing R-1.

**TRENCHES:** All trenches shall be backfilled or securely plated during non-working hours.

**LEAKAGE TESTING:** The Contractor's specific attention is directed to the requirements of either the infiltration, exfiltration, or air test as specified by the City of Reynoldsburg, Ohio. Leakage through the joints of the sewer shall not exceed the following allowable limits: 100 gallons per inch of tributary sewer diameter per 24 hours per mile of length or the computed equivalent for shorter lengths and shorter periods of time. All sanitary sewers and services shall be tested.

**DEFLECTION TESTING:** All PVC sewer lines shall be deflection tested after installation, in conformance with the requirements of Item 901 of the City of Columbus, Construction and Material Specifications, current version.

**6" SANITARY SERVICES:** Pipe for all 6" sanitary services shall be PVC plastic sewer pipe, ASTM D-3034, SDR-35. Services are subject to the infiltration, exfiltration, or air test. All service extensions shall be laid at a minimum grade of 1/4" per foot and shall be constructed at the time of construction of the main sewer, unless otherwise directed by the Engineer. Sanitary Service connections shall not be connected to the services or main line sewers until full approval of said services and main line sewer has been received.

**RISERS:** Risers shall be placed on wyes to bring all services to within 10 feet of existing or proposed surface grade, whichever is higher. Riser extensions shall be a minimum of 3 feet in length.

WYES: Exact wye locations are to be determined by the Owner at the time of construction. In the absence of such direction, they shall be installed at such locations as shown on the plans and/or directed in the field by the Engineer.

Y-POLES: Approved Y-poles made of 2" x 2" lumber shall be furnished and placed at all Y-branches and at the end of extended services. The cost of this work is to be included in the price bid for the various sewer items.

MONUMENTS: Any property corner pins or permanent survey markers disturbed during construction shall be reset by a registered surveyor at the Contractor's expense.

NON-RUBBER TIRED VEHICLES: No non-rubber tired vehicles shall be moved on public streets. Exceptions may be granted by the City of Reynoldsburg where short distances and special circumstances are involved. Granting of exceptions must be in writing, and any damage must be repaired by the Contractor to the satisfaction of the City of Reynoldsburg.

SITE GRADING: The Contractor shall return all grades to original condition, matching undisturbed areas, so as to maintain original drainage. Cost of this work shall be included in the prices bid for the various items.

OHIO EPA PERMIT TO INSTALL: The Contractor shall comply with all requirements and special conditions of the Ohio EPA Permit to Install issued for the project.

DESIGN STANDARDS: The sanitary sewer meets or exceeds City of Columbus design standards (including per capita flow, peaking factor, and I/I allowance) and material specifications.

+++++ END OF SECTION +++++

SIGNATURE BLOCK PRESENTED ON FOLLOWING PAGE.

## SANITARY SEWER PLAN SIGNATURE BLOCK

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Signatures below signify only concurrence with the general purpose and general location of the project. All technical details remain the responsibility of the Engineer preparing the plan.

APPROVED BY:

\_\_\_\_\_  
Reviewed for the City of Reynoldsburg

\_\_\_\_\_  
Date

\_\_\_\_\_  
Director of Public Service  
City of Reynoldsburg, Ohio

\_\_\_\_\_  
Date

\_\_\_\_\_  
Superintendent of Water/Wastewater  
City of Reynoldsburg, Ohio

\_\_\_\_\_  
Date

Note: Approval on the part of the City of Columbus is given pursuant to the provisions of the Sewer Service Agreement with the City of Reynoldsburg, Ohio, on November 7, 2002; Ordinance No. 2201-94, and all subsequent amendments thereof.

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Administrator, Division of Sewerage & Drainage  
City of Columbus, Ohio

\_\_\_\_\_  
Date

\_\_\_\_\_  
Director of Public Utilities  
City of Columbus, Ohio

\_\_\_\_\_  
Date