

GENERAL NOTES

All workmanship and materials shall conform to the current specifications of the City of Gahanna, Ohio, together with the City of Columbus Construction and Materials Specifications dated 2002

See Sheet 1A for Section 3 General Notes

including all supplements. 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 the sole responsibility of the Contractor and Subcontractor to initiate, maintain and supervise all safety requirements, precautions and programs in connection with the work.

The Contractor's attention is directed to the requirements of either the infiltration, exfiltration or air test as specified by the City of Gahanna, Ohio. Leakage through the joints of the sewer shall not exceed the following allowable limits: 100 gallons per inch of 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, in agreement with City of Columbus Construction and Materials Specifications, Item 901.20.

Where the sanitary sewer or sewer service crosses a proposed right-of-way, the trench shall be backfilled with compacted granular material, Item 304 from the bottom of the trench to the subgrade. The limits of placement shall be from R/W line to R/W line. All other trench backfill shall be compacted in 2" layers, loose measurement and compacted to a density at least equal to that of the surrounding undisturbed soil, where and as indicated on this plan. The cost of all backfill is to be included in the price bid for the various sewer items. Backfill to be installed in agreement with City of Columbus Construction and Materials Specifications, Item 901.17.

Where the sanitary sewer crosses a proposed storm sewer, the trench shall be backfilled to the bottom of the proposed storm sewer with compacted granular material, Item 304, 10 L.F. centered on the storm sewer. The cost of this work is to be included in the price bid for the various sewer items.

Separation of Water Mains and Sanitary Sewers must follow the Ten (10) State Standards.

All waterlines shall be located at least 10 feet horizontally and at least 18 inches vertically from sanitary sewers.

Approved wye poles made of 2"x2" lumber shall be furnished and placed at all wye 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. No tee-wyes are permitted. Extend 2' above finish grade and paint orange.

Manhole tops shall be built or subsequently adjusted to meet surface grades established for the development. The cost of this work is to be included in the price bid for the various sewer items. Manhole castings (Lids) shall be stamped "Sanitary".

Service risers, Item 914, shall be installed where depth from the wye fitting to the existing or proposed surface elevation exceeds 10 feet. Top of riser shall be 9 feet± below existing or proposed surface elevation, whichever is higher.

The Contractor shall obtain all necessary permits prior to construction.

The minimum requirements for sewer pipe on this project shall be extra-strength clay C700, or extra-strength, non-reinforced concrete pipe C14 Class 3, or PVC sewer pipe ASTM D-3034, SDR-35, unless otherwise shown on the plans.

Pipe for all 6 inch house services shall be vitrified clay pipe C700 or PVC sewer pipe ASTM D-3034, SDR-35. The services are subject to either the infiltration, exfiltration or air test. All service extensions shall be laid at a minimum grade of 1/4 inch per foot and shall be constructed at the time of construction of the main sewer, unless otherwise directed by the Engineer.

All manholes shall be City of Gahanna standard precast concrete manholes as shown on Standard Construction Drawing G-38, and City of Columbus AA-S102 (Type "C").

All pipes shall be laid with stone or gravel backing as shown on City of Columbus Standard Construction Drawings AA-S149 thru AA-S155.

Roof Drains, foundation drains and other clean water connections to the sanitary sewer system are prohibited on this project.

Prior to construction, the Contractor shall verify manhole construction and top of casting elevation. Each manhole shall be constructed with a minimum 8 inches of brick work under the casting.

The Owner/Developer shall provide a Soils Engineer, registered in the State of Ohio, for the purpose of inspecting and certifying to the City of Gahanna, acceptable soil bearing conditions prior to placement of improvements within the right-of-way and easements in accordance with the appropriate O.D.O.T. specifications, and to perform compaction (density) testing on trench backfill.

All sanitary sewer line installed on this project using PVC pipe will be subject to deflection testing by pulling an approved Mandrel equal in diameter to 95% of the pipe diameter through the pipe after pipe is backfilled and a sufficient amount of time is allowed for weight transfer of the backfill to the pipe and bedding. Deflection testing shall conform with the requirements of Item 901.21 of the City of Columbus, Construction and Materials Specifications, current version.

All site clearing (tree removal) shall be performed by the Owner at his expense prior to construction of this project.

Rock blasting, if required, will be subcontracted by the Owner. Subcontractor shall provide qualifications to City of Gahanna before blasting takes place.

All concrete pipe, storm and sanitary sewer structures shall be stamped or have such identification noting that said pipe, storm and sanitary structures have been inspected by the City of Columbus and meet their specifications. Pipe and structures without proper identification will not be permitted for installation.

Erosion Control Items to be in place, inspected & functioning properly prior to start of Sanitary Sewer construction.

Manhole casting lids to be painted black at the manufacturing plant.

Contractor to notify City Engineer 72 hours prior to start of work.

Developer to schedule a pre-construction meeting between Developer, Contractor, City Engineer, Design Engineer and Testing Agency.

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 Gahanna and/or Engineer assumes no responsibility as to the accuracy of the locations or the depths of the underground facilities shown on the plans.

Investigation, location, 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.

The Contractor shall cause notice to be given to the Ohio Utilities Protection Service (phone-800/362-2764 - toll free) and to the Owners of underground utility facilities shown on the plans who are not members of a registered underground protection service, in accordance with Section 153.64 of the Revised Code. Notice shall be given at least 48 hours prior to start of construction.

The Developer is to schedule a Pre-Construction meeting one business week prior to construction. The meeting shall take place at least one business week prior to the following: Site Clearing, Material on Site, Equipment on Site, and Field office on Site.

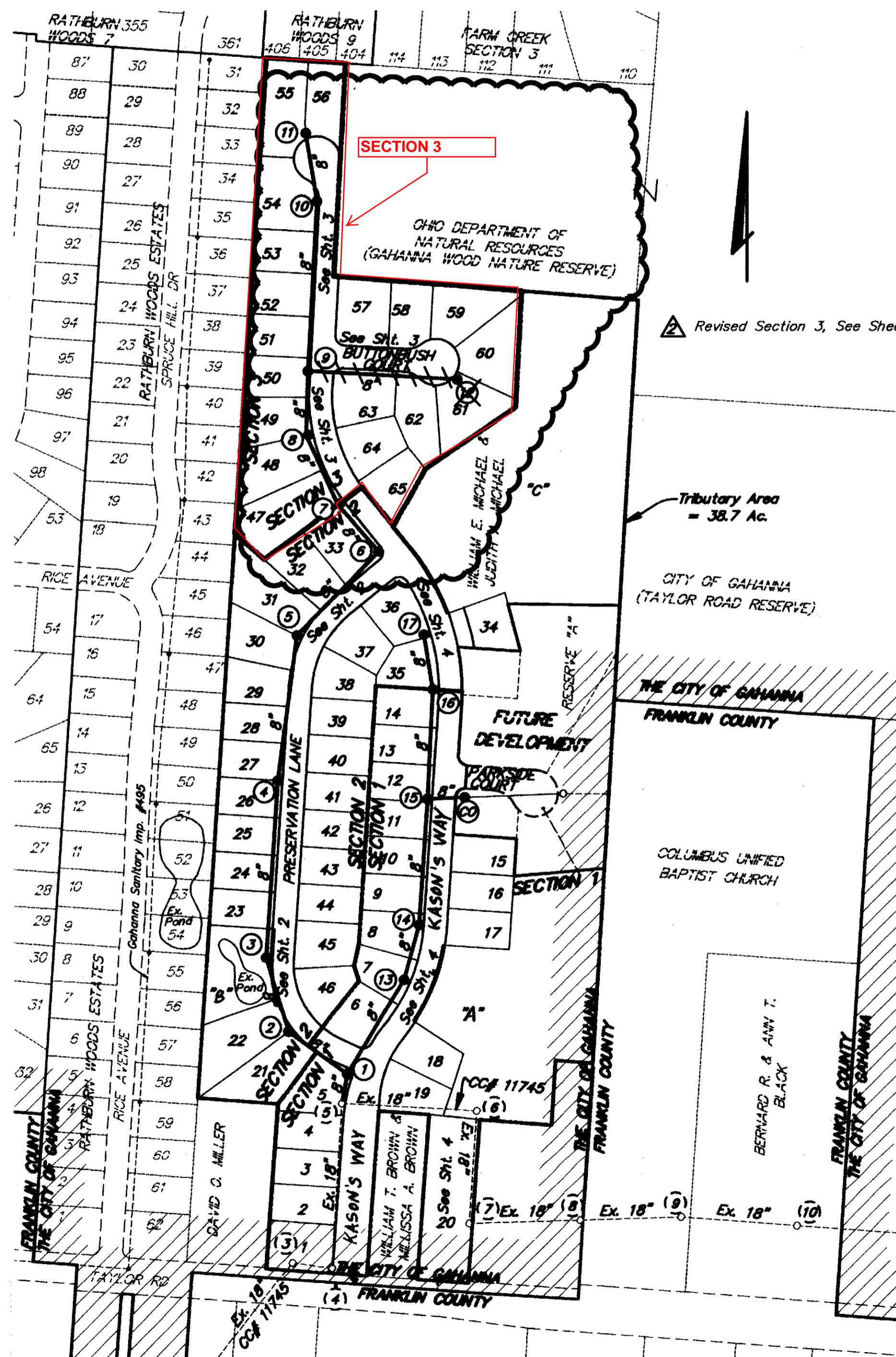
The Developer is to comply with the City of Gahanna's Development Regulations & Requirements (2-11-98).

CITY OF GAHANNA, OHIO

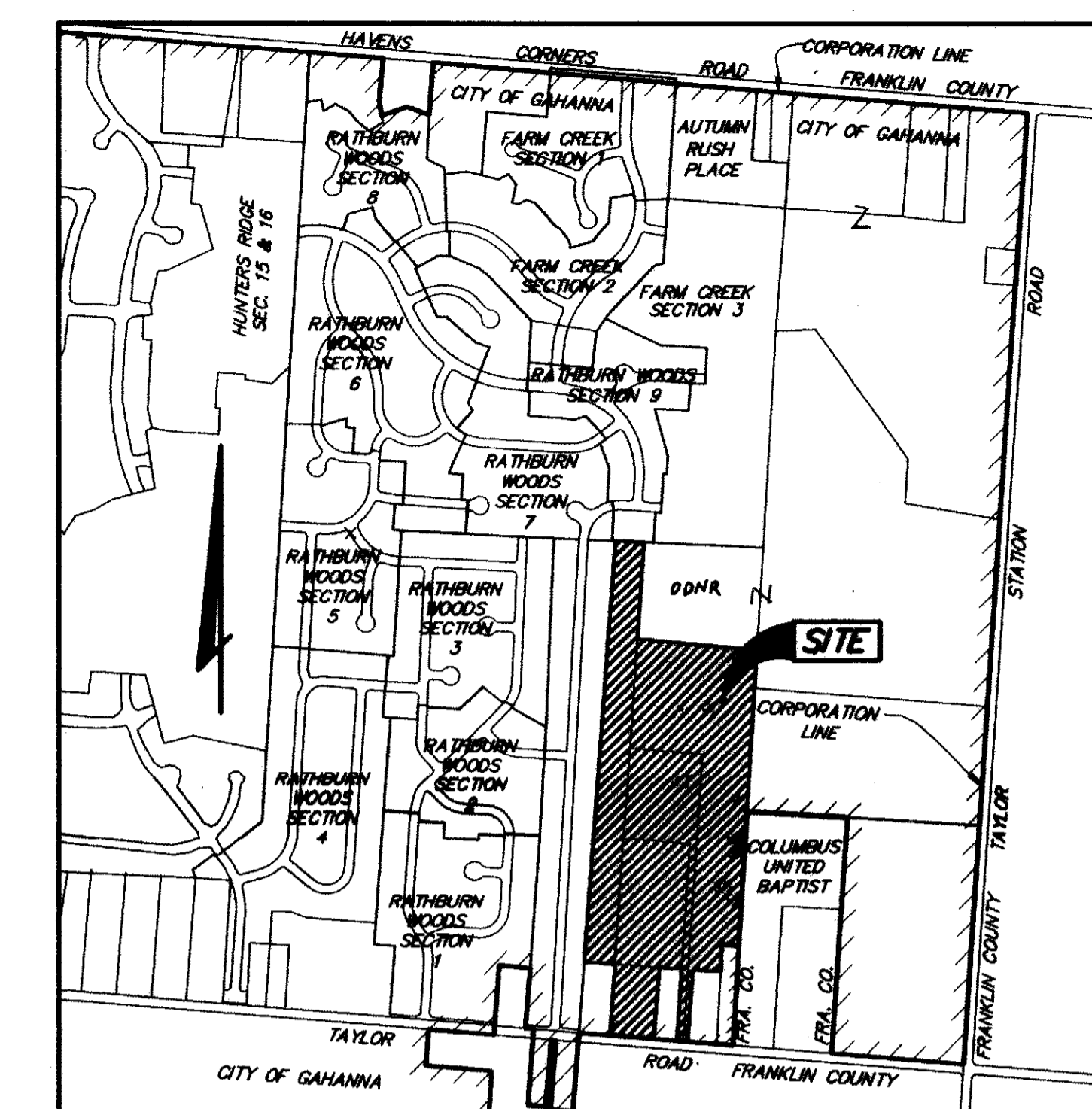
SANITARY SEWER IMPROVEMENT NO. 832

FOXWOOD SECTIONS 1, 2 & 3

2003



SANITARY VALUE = \$86,999.00
PER REVISION #2 APPROVED ON 4/23/15



LOCATION MAP
SCALE: 1" = 800'

ITEM	QUANTITY			UNIT	DESCRIPTION
	SECTION 1	SECTION 2	SECTION 3		
604	6	6	5	17	Each Precast Concrete Pipe Manhole, Type "C"
901	1,165	1,365	1,149	3,679	Lin. Ft. 8" Sanitary Sewer Pipe
914	35	81	87	203	Lin. Ft. 6" Sanitary Sewer Pipe (Risers)**
915	15	26	19	60	Each 8" x 6" Wye Fitting
915	1	-	-	1	Each Cleanout
918	15	20	85	120	Lin. Ft. 6" Sanitary Service (Outside R/W)
918	145	180	60	385	Lin. Ft. 6" Sanitary Service (Inside R/W, 1 per Trench)
918	160	790	360	1,310	Lin. Ft. 6" Sanitary Service (Inside R/W, 2 per Trench)
Calculated By: AEF				4/18/03	Checked By:

BENCH MARKS

- N.A.V.D. 1988
Source: 1929 FCBM #5521
- BM 1 R.R.S. W. Side P. Pole, 70'± N. C/L Taylor Rd., E. P/L United Baptist Church.
Elev. = 890.35 (Elev. = 890.90 1929)
- BM 2 S. Rim Str. M.H. 75' E. of Curb End, N. Side Taylor Rd., By Res. # 5990.
Elev. = 883.71 (Elev. = 884.26 1929)
- BM 3 Aluminum cap in conc. monument, at the E intersection of Taylor Rd. and Reynoldsburg-New Albany Rd., access through F.C. road monument box. Monument replaced a found 1" solid iron pin.
Elev. = 956.44 (Elev. = 956.44 1929)



PREPARED BY
EVANS, MECHWART, HAMBLETON & TILTON, INC.
CONSULTING ENGINEERS & SURVEYORS
GAHANNA, OHIO
Andrew E. Furling E-66115
Registered Engineer
Date: 4-18-03

All signatures below signify only concurrence with the general purpose of this project. All technical details are the responsibility of Evans, Mechwart, Hambleton, & Tilton, Inc., Consulting Engineers and Surveyors.

Paul J. Mestelant 4/20/03
City Engineer, City of Gahanna, Ohio
George Jackson 5-2-03
Water Resources Engineer, City of Gahanna, Ohio
Kennell J. Sims 5-2-03
Superintendent, Division of Streets, City of Gahanna, Ohio
Thomas A. Perry 5-2-03
Director of Public Service, City of Gahanna, Ohio
W. J. Fromm 5-2-03
Director of Finance, City of Gahanna, Ohio
Rebecca W. Stinchcomb 5-2-03
Mayor, City of Gahanna, Ohio

STANDARD DRAWINGS

The Standard Construction Drawings listed on these plans shall be considered a part thereof:

City of Gahanna	City of Columbus
G-38	AA-S102 AA-S149
G-39	AA-S110 AA-S150
	AA-S111* AA-S151
	AA-S119 AA-S160
	AA-S161

* Modified - Mark "Sanitary" in Lieu of Columbus

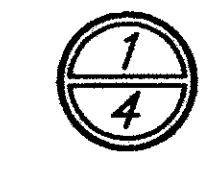
NOTE: Approval on the part of the City of Columbus is given pursuant to the provision of the sewer agreement executed with the City of Gahanna on September 27, 1967 and all subsequent amendments thereof.
Ronald E. Cunniff 5/6/03
Administrator, Division of Sewerage & Drainage, City of Columbus, Ohio
Cheryl Roberts, by A.R. Road 5/7/03
Director, Department of Public Utilities, City of Columbus, Ohio

INDEX / TRIBUTARY MAP SCALE: 1"=200'

REVISION	DATE	APPROVAL	DESCRIPTION
1	7/26/03	[Signature]	Adjust Inverts of T.C.'s & M.H.'s # 4 & 5
2	4/23/15	[Signature]	Revised Section 3, Revised Sheets 1,3 & added Sheet 1A,3A

AS-BUILT: SECTION 1 - SANITARY "AS-BUILTS"; 1-28-04 SHEET INDEX
SECTION 2 - SANITARY "AS-BUILTS"; 2/12/06
SECTION 3 - SANITARY "AS-BUILTS"; 2/12/06

Title Sheet, General Notes, Index Map & Quantities _____ 1
Plan & Profiles _____ 2-4, 3A



CC-13241

I:\CHDATA\BORING\PROJECT\20021548\DWG\21548S01.DWG - 1 - REFS: 21548BMS - PLOTTED BY BVRGIN - April 18, 2003 - 3:24 PM