

**CITY OF PARMA
VARIOUS LOCATIONS FOR SEPTIC ABANDONMENT/NEW
SANITARY TIE-INS
SCOPE OF SERVICES**

PROJECT DESCRIPTION

The City of Parma desires to construct sanitary sewers and/or house laterals to serve residences that are currently served by septic systems at the following locations:

- York Road (North Section) between house numbers 7155 and 7890 (approximately 8 homes). The proposed improvements will include approximately 880 feet of 8-inch sanitary sewer from Moore Drive to the Parma Heights corporate boundary, and 6-inch house lateral connections from the mainline sewer to the right-of-way line at the house locations.
- York Road (South Section) between 7886 York Road and Sprague Road. The proposed improvements will include approximately 540 feet of 8-inch sanitary sewer from 7886 York Road to an existing sanitary sewer manhole in Sprague Road, and a 6-inch house lateral connection from the mainline sewer to the right-of-way line at the house location.
- Valley Villas Drive between West Pleasant Valley Road and a point approximately 150 feet north of the intersection of Valley Villas Drive and Sierra Oval (approximately 22 homes). The proposed improvements will include approximately 1,380 feet of 8-inch sanitary sewer within this reach, and 6-inch house lateral connections from the mainline sewer to the right-of-way line at the house locations.
- State Road at the following addresses 7630, 7651, 7723, 7758, 7774, and 7784 that are located between Sarasota Drive and Ocala Drive. The proposed improvements will include providing a 6-inch house lateral connection from the existing mainline sanitary sewer to the right-of-way line at each of these 6 homes. Our services do not include the design of mainline sanitary sewers along State Road.

The proposed improvements are shown on Exhibits A, B, C, and D, which are included as **Attachment No. 1** to this proposal. Below is a description of the major work tasks the City wishes DLZ to conduct, and a description of our deliverables to the City.

1.0 PRELIMINARY DESIGN PHASE SERVICES

1.1 SURVEYING AND MAPPING

1.1A Survey and Mapping Limits

The survey and mapping limits are the limits of proposed sewer improvements that are shown on Attachment A. At State Road, the survey limits will be from Sarasota Drive to Coral Gables Drive.

The survey limits will be confined to ten (10') past the existing right-of-way lines.

1.1 B Horizontal and Vertical Control

DLZ will define horizontal and vertical control based on the Ohio North Zone State Plane coordinate system NAD 83(2011) and the NAVD 88 vertical datum. Benchmarks required for future construction activities will be set every 1000' along each roadway.

1.1 C Soil Boring Locations

DLZ will locate the as drilled locations of 9 geotechnical soil borings that will be drilled in one phase. The boring locations will be coordinated with the DLZ geotechnical department.

1.1D Topographic Identification

DLZ will perform a complete field topographical survey within the above-mentioned survey limits. Contours will be developed at a 1-foot interval created from the natural topography including but not limited to pavements, curb and gutter lines, low and high-grade breaks. Planimetric features will include but not be limited to structures, adjoining parking lot edge, parking striping, sidewalks, steps, signs, entrance drives, utility valves, curbs, curb ramps, pavements, and pavement types. The finish floor elevation and/or basement window elevations will be located for an estimated 37 homes. All trees that are 6" or larger will be located and shown as either coniferous or deciduous. The underground utility information will be provided per an Ohio Utilities Protection Service (OUPS) request for pre-planning information and field markings. The utility information will also be derived from field observation when accessible or from record information made available from government agencies.

1.1E Drainage Survey

DLZ will survey and verify drainage features throughout the project. Drainage features include rim elevation; invert elevation, pipe size, and material information. The field survey will provide the required information to analyze existing drainage patterns and identify critical drainage areas. In addition to the drainage, similar information will also be provided for the sanitary sewers. The drainage information will also be derived from field observation when accessible or from record information made available from government agencies.

1.1 F Records Research, Right-of-Way Resolve, & Location of Property Corners & Monuments

DLZ will resolved the current public road rights-of-way based on the most current record plats, city, county, and state road records in conjunction with field located centerline and right-of-way monuments. GIS property lines will be provided from the Cuyahoga County GIS public information. Properties shall be identified with Owner's name, street address, and permanent parcel number. We assume that no title reports defining any encumbrances or easements will be required. We also assume that no boundary surveys or property acquisitions will be required, with

the exception of the seven properties located along York Rd between Moore Drive and Boundary Lane, if the sewer is constructed along this alignment.

1.1G Health Department Septic Records

DLZ will collect available septic records from the Cuyahoga County Health Department for the homes that are to be serviced by the new sewer improvements.

1.1 H Basement Entries

DLZ will interview and request entry into an estimated 37 homes to measure the basement height from a known exterior surface feature such as a window sill or first floor level. We will prepare and mail a notification to each affected resident using the City's standard template in advance of requesting entry into the home. The measurement taken within the home will enable DLZ to estimate the basement finished floor elevation. We will attempt to enter the homes once during the weekday and a second time on a weekend day. If the homeowner is not available, or will not allow our field personnel access to the inside of the home during these times, we will not obtain the basement finished floor elevation for that home.

1.1 G Site Survey Deliverables

The basemap will be prepared using AutoCAD 2016 (or later version) software. Mapping deliverables will be created at an engineering scale of 1-inch = 20 feet unless specified otherwise. All existing conditions mapping will be developed in Ohio Department of Transportation drafting standards. Contours will be developed at a 1-foot interval developed from the natural topography including but not limited to water features, pavements, curb and gutter lines, low and high-grade breaks.

1.2 GEOTECHNICAL INVESTIGATION

1.2A Reconnaissance and Planning

DLZ will perform a field reconnaissance of the site and obtain utility clearance through the Ohio Utilities Protection Service (OUPS) and the Ohio Oil & Gas Producers Underground Protection Service (OGPUPS). The proposal presumes that no city permits will be required for the proposed drilling plan.

An initial review of subsurface information available within the general area indicates the soils generally consist of cohesive soils overlying bedrock whose depth appears to vary greatly, from 12 feet to 45 feet below the ground surface.

1.2B Drilling

The drilling program will consist of a total of nine (9) borings, drilled to depths ranging from 20 to 25 feet. Table 1 below summarizes the boring program.

Table 1: Subsurface Exploration Summary

Boring	Location	Depth (ft)
B-01	York Road North	20
B-02	York Road North	20
B-03	York Road South	20
B-04	York Road South	20
B-05	Valley Villas Drive	25
B-06	Valley Villas Drive	25
B-07	Valley Villas Drive	25
B-08	State Road	20
B-09	State Road	20
Total		195

Borings will be located on paved surfaces and a truck mounted drill rig will be used to drill the borings. DLZ will advance the borings through the overburden using conventional hollow-stem augering techniques. Soil will be sampled in the overburden at 2.5-foot intervals to either refusal in rock or the boring completion depth using a standard 2-inch OD, 1.375-inch ID split spoon sampler generally in accordance with ASTM D-1586 methods. If refusal in bedrock is encountered shallower than 15 feet in the 20-foot borings or 20 feet in the 25-foot borings, bedrock will be cored using a NQ2 core barrel to confirm the presence of bedrock.

Water observations during drilling and water levels in the borings at the completion of drilling will be recorded. Each boring will be backfilled with a mixture of cuttings and bentonite or grouted according to State and Local requirements.

1.2C Traffic Control

For Valley Villas Drive, traffic control will be accomplished using signs and cones. For the other sites, traffic control will involve closing one lane of traffic to perform the work. Due to the anticipated traffic volume for these sites, we anticipate that traffic control measures for the borings will require the use of signs, cones, and flagmen to maintain traffic during drilling.

1.2D Laboratory Testing

DLZ will perform visual classification in accordance with USCS for the soil samples. We will prepare formal boring logs, using DLZ's boring log format, based on the field logs, the laboratory classifications, and results of laboratory testing. A laboratory testing program will be developed to determine moisture content determinations, particle-size, and plasticity for up to one representative sample per boring.

1.2E Subsurface Exploration Report

Upon completion of the field exploration and laboratory testing, DLZ will prepare a written report

of the geotechnical exploration, including findings, analysis, and foundation recommendations (bearing capacity), as well as guidance for excavation and groundwater control.

1.3 PRELIMINARY ENGINEERING

1.3A Meetings and Coordination

DLZ's Project Manager will coordinate the work with the City's designated representative. The Project Manager will be responsible for scheduling, staffing, cost control, invoicing, and responding to client requests for information.

During the Preliminary Design Phase, up to two (2) DLZ representatives will attend up to three (3) meetings with the City. The meetings will be held at the kick-off, pre-30%, and 30% stages. The meetings will be held at City offices. DLZ will prepare and distribute meeting minutes.

1.3B Field Investigations

DLZ's Subconsultant, C&K Industrial Service will perform a CCTV inspection of the mainline sanitary sewer on State Road between Sarasota Drive and Coral Gables Drive. They will locate house laterals within this reach. If house laterals exist at the 7630, 7651, 7723, 7758, 7774, or 7784 State Road locations, C&K will launch a camera into those laterals and attempt to televise them to the right-of-way line. C&K will provide report forms and videos of each inspection. C&K will also perform 3D panoramic videos of the three existing tie-in manholes, which are located at the York Road North, York Road South, and Valley Villas Drive locations. The manhole inspections will document the condition of the manholes at each of these 3 locations.

1.3C Preliminary Sewer Route Analysis and Deliverables

Preliminary Sewer Route Analysis will include the following:

- For the York Road (North Section), DLZ will evaluate up to three (3) alternate sewer alignments: 1) sewer flowing to the north to connect to the existing manhole at the Parma Heights border; 2) sewer flowing to the south to connect to an existing manhole at Moore Drive; 3) and sewer along private properties on the east edge of the homes fronting York Road and connecting to an existing manhole on Boundary Lane.
- For the Valley Villas Drive segment, DLZ will evaluate up to two (2) alternate sewer alignments. The alternate alignments may include one alignment in the street and a second alignment along the sidewalk or tree lawn.
- Up to two (2) DLZ representatives will attend a pre-30% work session with the City to discuss the advantages and disadvantages of the alternate sewer alignments, and select the alignments that will be developed for the 30% submittal. The results of the work session will be documented in the meeting minutes, and no separate report will be prepared.

- DLZ will prepare quantity estimates and estimates of probable construction cost at the 30%, design stages.
- During the Preliminary Design Phase, DLZ will submit .pdf files, two (2) 22" x 34" size plan sets and two (2) 11" x 17" size plans sets to the City at the 30% review stage of the project. The 30% submittal will include only plan-profile sheets. The sheets will depict the recommended alignments for each project site, as well as plan view layouts for any feasible alternate alignments. DLZ will respond to the City's review comments and incorporate them into the documents, as necessary.

2.0 FINAL DESIGN PHASE SERVICES

2.1 Meetings and Coordination

DLZ's Project Manager will coordinate the work with the City's designated representative. The Project Manager will be responsible for scheduling, staffing, cost control, invoicing, and responding to client requests for information.

During the Final Design Phase, up to two (2) DLZ representatives will attend up to three (3) meetings with the City. The meetings will be held at the 60% review, and 90% review stages, and final review stages. One of these meetings may include representatives of Cuyahoga County. The meetings will be held at City or County local offices. DLZ will prepare and distribute meeting minutes.

2.2 Contract Documents

DLZ will prepare contract plans (detailed drawings) and technical specifications to solicit formal bids for construction of the sewer improvements. We will prepare documents for only one (1) bid package. Plans and specifications (contract documents) will be prepared in general conformance with the Cuyahoga County Uniform Sewer Details and the City of Parma's design policies and practices for constructing sanitary sewers.

DLZ will prepare 22" x 34" plan drawings for the water and storm sewer improvements using AutoCAD 2016 (or later version) software. The plan view shall show street right-of-way, property lines, property owners, permanent parcel numbers, and field established topographic and utility information within the right-of-way and/or easements. Quantities will be tabulated and shown in the Bid Form.

Design and plan preparation services will include the following:

- DLZ will prepare a title sheet, including a vicinity map and signature blocks.
- DLZ will prepare sheets showing general notes, sheet legends, and abbreviations.
- DLZ will prepare survey control reference sheets.

- DLZ will prepare erosion control plans to meet the conditions of the OEPA Construction General Permit (CGP). The site disturbance at each site is less than one-acre. We assume that the erosion control measures will be limited to inlet protection and silt fencing. DLZ assumes that no post-construction storm water best management practices, as described in Part III.G.2.e of the OEPA Construction General Permit, will be required. The following SWPPP items are **not** included in the scope of work:
 1. Post-construction BMP design.
 2. SWPPP specifications beyond what is provided in the ODNR Rainwater and Land Development Manual.
 3. Design of sediment traps or basins.
 4. SWPPP inspections during and after construction.
 5. SWPPP review fees.
 6. NOI preparation and fee.

- For the sewer improvements, DLZ will prepare plan-profile sheets at a 1" = 20' horizontal and 1" = 5' vertical scale. The plans will show layout data, stationing, elevations, right-of-way lines, adjacent property owners, street names, sewer invert elevations, house lateral connections and other pertinent information. We will not prepare separate profile views for each of the house laterals.

- DLZ will prepare Maintenance of Traffic (MOT) plans for the project sites. The Valley Villas Drive site will require a traffic detour. The other sites will require maintenance of traffic around and along the open-cut construction work. Traffic control measures will be based on the Ohio Manual of Uniform Traffic Control Devices (OMUTCD). Our services do not include signalization for MOT.

- DLZ will prepare standard Cuyahoga County or City-furnished details for items such as the sewer trench repair, typical pipe trench, standard manhole, test tee, and typical house lateral.

- DLZ will prepare a bid form, table of contents, and specification cover sheet for the specification booklet. The City will provide the necessary front-end documents for DLZ's use in preparing the specifications. DLZ will prepare technical specifications in CSI format for such items as sewer piping, earthwork, and seeding, if these items are not covered by standard notes or details.

- DLZ will prepare quantity estimates and estimates of probable construction cost at the 60%, 90%, and final design stages.

- During the Final Design Phase, DLZ will submit .pdf files, two (2) 22" x 34" size plan sets, two (2) 11" x 17" size plans sets, and two bound copies of the specification book to the City at the 60%, 90%, and final review stages of the project. The 60% submittal will include general notes, preliminary sewer plan-profiles, preliminary MOT plans, preliminary standard details, draft technical specifications, and a preliminary cost estimate. The 90% submittal will include updated versions of the 60% documents advanced to a substantially complete stage for the City's review with the addition of erosion control plans. The final review submittal

will include contract documents that have addressed the City's review comments, and are ready for bidding. For each review stage, DLZ will respond to the City's review comments and incorporate them into the documents, as necessary.

- DLZ will submit plans to the OUPS member utility companies at the 60% and 90% design stages. We will also respond to utility company inquiries, and note their review comments.

DLZ anticipates that the following plan sheets will be prepared for this project.

Title Sheet (1)
Index, Legend, and General Notes Sheets (2)
Survey Control Plans (2)
Erosion Control Plan Sheets (7)
Sewer Plan and Profile Sheets – York Road North (2)
Sewer Plan and Profile Sheets – York Road South (1)
Sewer Plan and Profile Sheets – Valley Villas Drive (3)
Sewer Plan and Profile Sheets – State Road (2)
Manhole, Sewer, and Trench Details (3)
MOT Notes (2)
MOT Plans (5)
Total of 30 sheets

3.0 BIDDING PHASE SERVICES

At the completion of final design phase, DLZ will provide fifteen (15) full-size plan sets and fifteen (15) bound 8.5" x 11" Specification Books to the City for their use in procuring bids. Additionally, DLZ will provide three (3) full-size plan sets and three (3) bound 8.5" x 11" Specification Books to the City's engineering staff for their use during bidding.

DLZ will prepare for and attend a pre-bid meeting with City representatives and prospective bidders during the bidding phase of the project. DLZ will prepare minutes of the pre-bid meeting and issue them to the City for their distribution. DLZ will assist the City in responding to bidder's questions and prepare up to two (2) minor addenda for issuance by the City.

4.0 OHIO EPA PERMIT TO INSTALL

When the Contract Documents are approximately 90% complete, DLZ will prepare an Ohio EPA Permit to Install (PTI) Application for the City's review and signature. After the application is signed by the City, DLZ will transmit the signed PTI application, including copies of the Contract Documents and PTI fee, to the Ohio EPA. The PTI fee is the summation of the application fee and the plan review fee, and is estimated to be a maximum fee of \$15,100.00. The PTI fee will be paid by DLZ, and invoiced to the City for reimbursement.

5.0 FUNDING ASSISTANCE (IF AUTHORIZED)

If authorized separately by the City, DLZ will provide the services of their Project Manager and/or Staff Engineers for a maximum duration of approximately 15 hours to assist the City in providing supplemental materials and information pertinent to the project to enable the City to apply for project funds. Such information may include maps, plan excerpts, sewer footage summaries, scope of work summaries, etc. The maximum fee for these services shall be **\$2,500.00**.

6.0 EASEMENT DOCUMENTS (IF AUTHORIZED)

If authorized separately by the City, DLZ will provide the services of their Surveyors to prepare legal descriptions (written legal description and plat) for a maximum of ten (10) total easement descriptions (temporary or permanent easements) at locations to be determined by the City. The easements will be along the front or rear of parcels that are owned by the single-family homes that will be served by the proposed sewer improvements. The maximum fee for these services shall be **\$7,762.00**.

7.0 ENGINEERING SERVICES DURING CONSTRUCTION (IF AUTHORIZED)

If authorized separately by the City, DLZ will provide the services of their Project Manager and/or Staff Engineers for a maximum duration of approximately 30 hours to assist the City in responding to Contractor inquiries regarding the design intent and potential substitutions of materials or system components. The maximum fee for these services shall be **\$5,000.00**.

8.0 ITEMS TO BE PROVIDED BY THE CITY

- The City will provide DLZ with one copy all available existing drawings, studies, and reports pertaining to the project.
- The City will pay for all bid advertising, addenda distribution, and permit fees except for the OEPA Permit-to-Install application and review fee, which is included in the scope of services.
- The will provide DLZ with one Word copy of all required front-end specification documents including General Conditions, Supplementary General Conditions, Special Conditions, EEO Forms, Bid Guarantee Forms, Bid Instructions, Forms of Contract, and Wage Rates.
- The City will provide review comments to DLZ in a timely manner.
- The City will provide all City-standard construction details and technical specifications that are relevant to the proposed sewer and MOT work.

- The City will provide their standard letter template for notifying homeowners of basement entries.

9.0 ITEMS NOT INCLUDED IN THE PROPOSAL

In addition to those work tasks excluded from our Scope of Services as described herein, following is a list of other items of work that are not included in our Scope of Services:

- The preparation of sewer fee assessments for the properties that are to be affected by the new sewer construction.
- The hydraulic design of the sanitary sewer improvements. We assume that an 8-inch diameter sewer will be sufficient to convey flows at each project site, and that the existing downstream sewer system has sufficient capacity to handle the additional sanitary flows.
- The preparation of multiple bid packages for construction. Our proposal assumes that contract documents will be prepared for only one construction contract.
- Street lighting, streetscaping, landscaping plans, or landscape architecture services.
- Environmental, wetland, cultural resource, or historical-architecture studies.
- Preparation for or participation at public meetings.
- Destructive or non-destructive material testing.
- The services of a graphic artist to perform renderings or artistic interpretations of proposed improvements.
- Appraisals, estimates of property acquisition costs, or discussions with private property owners.
- Hydraulic or flood evaluation studies.
- Traffic studies.
- The preparation of utility relocation plans, other than the sanitary sewer improvements that are included in this Scope of Services.
- Construction inspection services.
- Legal reviews, expert testimony, or other specialty services.

SCHEDULE

DLZ assumes the following schedule for this project:

Complete Survey and Mapping: 6 weeks from NTP
Complete 30% Design Documents: 13 weeks from NTP
Complete 60% Design Documents: 22 weeks from NTP
Complete 90% Design Documents: 28 weeks from NTP
Complete 100% Design Documents: 32 weeks from NTP

The above schedule assumes that the City will provide review comments on all submittals within 2 weeks of their submission.

FEE DERIVATION

DLZ's proposed fee for the services described herein is as follows:

Task	Hours	Labor	Expenses	Total
Preliminary Design Phase Services	495	\$58,808	\$22,143	\$80,951
Final Design Phase Services	569	\$69,398	\$970	\$70,368
Bidding Services	46	\$5,793	\$2,054	\$7,847
Ohio EPA Permit to Install	11	\$1,380	\$15,100	\$16,480
Base Engineering Fee Subtotal	1,121	\$135,379	\$40,267	\$175,646
Funding Assistance (If Authorized)	---	\$2,500	\$0	\$2,500
Easement Documents (If Authorized)	62	\$7,762	\$0	\$7,762
Engineering Services During Construction (If Authorized)	---	\$5,000	\$0	\$5,000
"If Authorized" Fee Subtotal	62	\$15,262	\$0	\$15,262
Design Contingency Allowance	---	---	---	\$19,000
Total Engineering Fee	---	---	---	\$209,908

A detailed breakdown of the fee derivations is included in Attachment No. 2.

ATTACHMENT NO. 1
EXHIBITS A THROUGH D

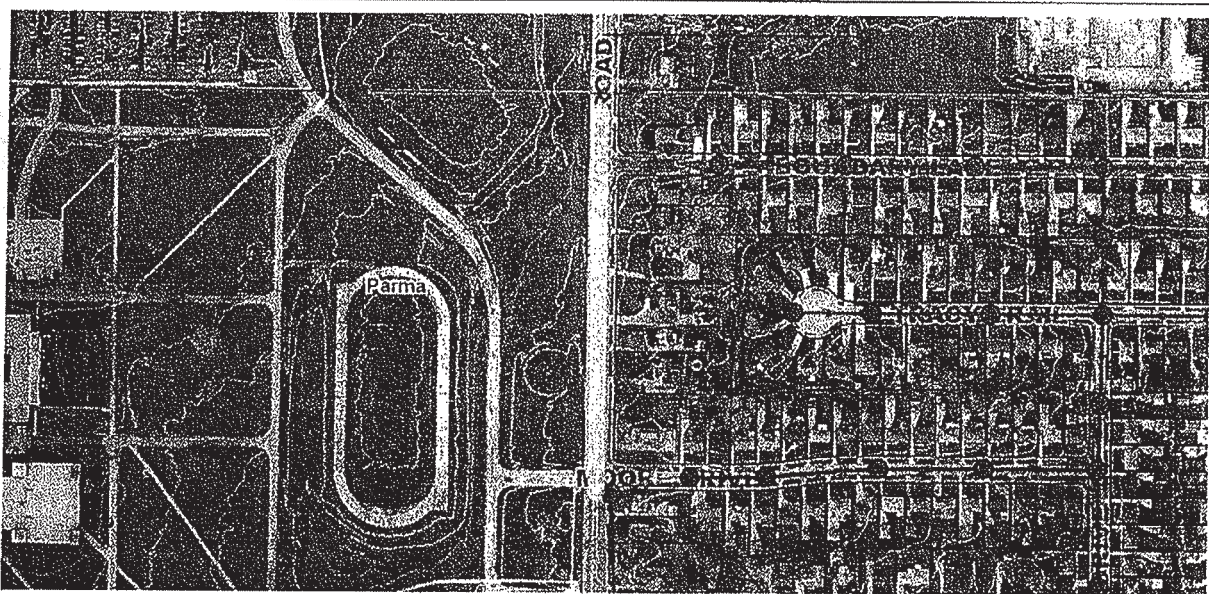


EXHIBIT A: YORK ROAD (NORTH)

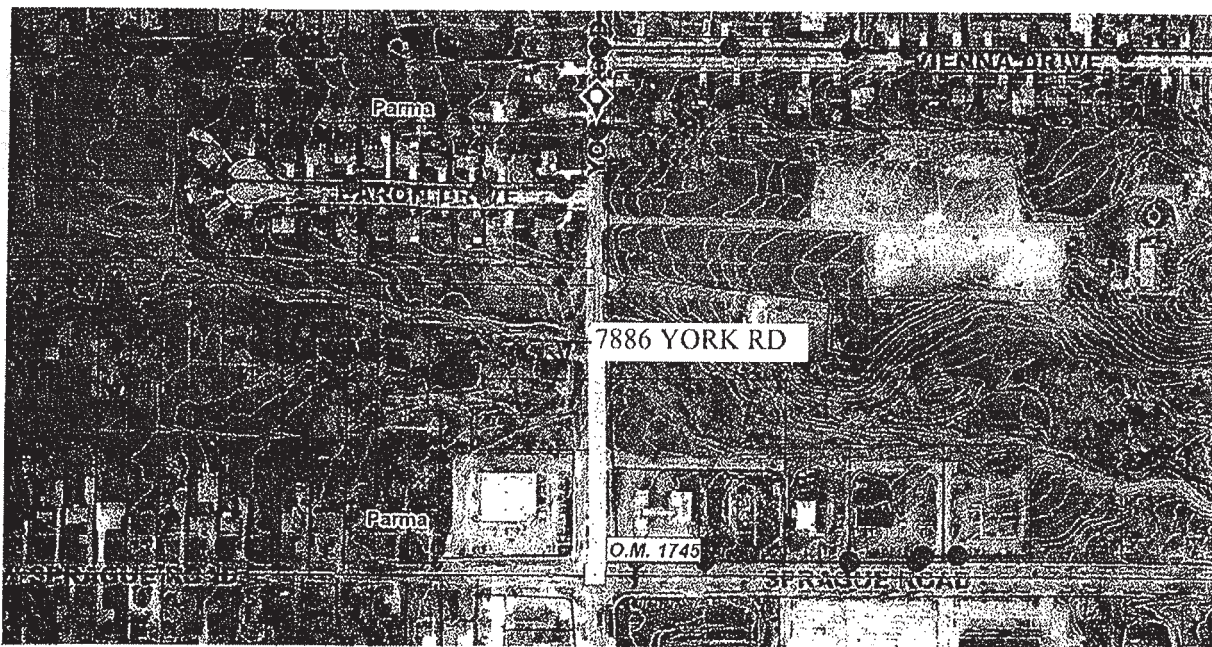


EXHIBIT B: YORK ROAD (SOUTH)

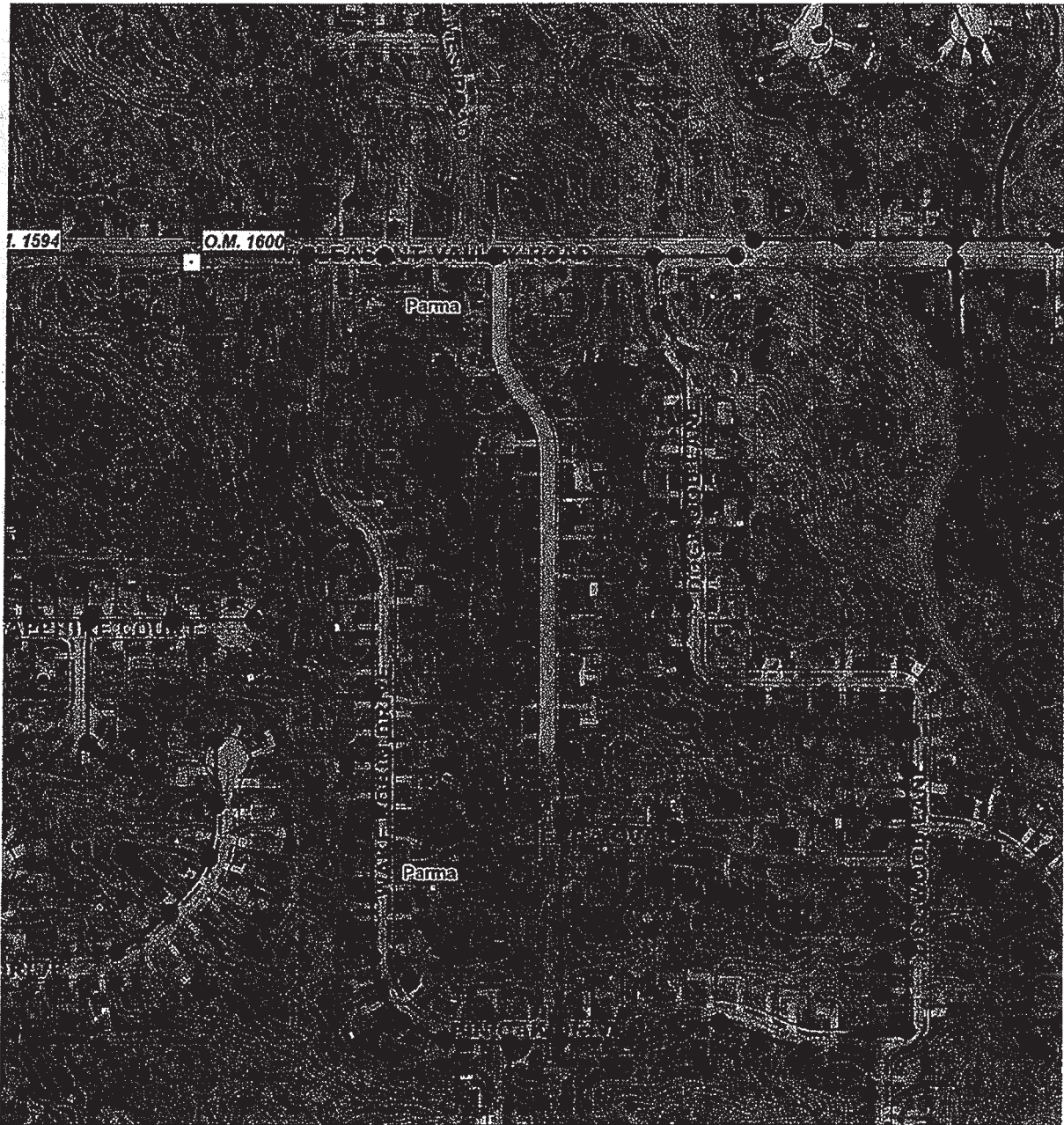


EXHIBIT C: VALLEY VILLAS DRIVE



EXHIBIT D: STATE ROAD

ATTACHMENT NO. 2
FEE DERIVATION

PROJECT: Various Locations for Septic Abandonment/New Sanitary Tie-Ins

PROJECT TASK: Preliminary Design Phase Services

CLIENT/OWNER: City of Parma

LOCATION: Parma, Ohio

DATE: 3/29/2018

Description	No. of Sheets	STAFF-HOURS										TOTAL
		\$72.00	\$62.00	\$43.00	\$32.00	\$25.00	\$50.00	\$45.00	\$29.00	\$35.00	\$33.00	
		Div. Mgr.	Project/Task Mgr	Sr Civil Engr	Project Engr/CADD Tech.	Clerical	Survey Mgr	Prof Surveyor	Survey Tech II	Survey Tech I	1-Person Field Crew	
Preliminary Design Phase Services												
Set Control and BM's (2-person crew)											32	32
Monument Recon								1			8	9
Records Research/RW Resolve								20				
Soil Boring Locations (9)								1				1
Topographic ID												
Sewer Loc Inspection/database (2-person crew)											32	33
Health Dept Records							1	1	2	8	16	28
Basement Entries							4	4	6			10
ODPS/Utility Resolve							1	2	4	8	24	25
County GIS Conversions							2	2				14
Busemap Preparation							2	2		4		6
Field Checks, Survey OC, & Project Meetings							1	16				37
Project Management (17 hrs per month x 3 mths)			51					2	1		8	11
Project Mgmt Plan and Safety Plan			8									51
Meetings with Client, Incl Minutes (3)			16									8
Prepare Homeowner Notification Letters			2		12							28
Coordinate CCTV work and review data			2		8			3				13
Title Sheet	1		1		4							6
Index/Legend/Gen Notes Sheet	1		1		1							3
Survey Control Plan	0											6
Erosion Control Project Data & Notes	0											0
Erosion Control Plan Sheets at 1"=40' scale	0											0
Erosion Control Detail Sheets	0											0
Sewer Plan-Profile- York Road North (1"=20')	2		2		8							26
Review Alternate Layouts for York Road North	2		3		6							24
Sewer Plan-Profile- York Road South (1"=20')	1		1		4							13
Sewer Plan-Profile- Valley Villas Drive (1"=20')	3		3		7							26
Review Alternate Layouts for Valley Villas	2		2		4							14
Sewer Plan-Profile- State Road (1"=20')	2		2		6							18
Manhole, Sewer and Trench Repair Standard Details	0											0
MOT Notes	0											0
MOT Plans	0											0
Quantities and Cost Estimates for 30% Submittal			3		4							7
Prepare 30% Submittal			2		4							6
Review and Respond to City 30% Comments			3		4							9
QA/QC/QM (10 shts)		4	8									12
Total Labor Hours	10	4	110	72	81	3	2	51	13	40	120	496
Total Burdened Labor	\$806.40	\$19,096.00	\$8,668.80	\$7,257.60	\$210.00	\$280.00	\$6,426.00	\$1,055.60	\$3,920.00	\$1,088.00	\$58,808.40	

Total Burdened Labor		\$59,803.40
Other Direct Costs		
Mileage	1100	\$594.00
Review Set Reproductions (2 Full, 2 Half at 30% Submittal)		\$125.00
Photos/Mailings/Misc.		\$200.00
Geotechnical Engineering - DEZ/Geotech Dept		\$4,396.00
Geotechnical Drilling - DEZ/Geotech Dept		\$8,960.00
Geotechnical Laboratory Testing - DEZ/Geotech Dept		\$2,628.00
CCTV and MH Inspections - C&K Industrial Services		\$5,240.00
Other Direct Costs Total		\$22,143.00
Total Fee		\$80,951.40

PROJECT: Various Locations for Septic Abandonment/New Sanitary Tie-Ins

PROJECT TASK: Final Design Phase Services

CLIENT/OWNER: City of Parma

LOCATION: Parma, Ohio

DATE: 3/29/2018

Description	STAFF-HOURS												TOTAL			
	No. of Sheets	Div. Mgr.	Project/Task Mgr	\$72.00	\$62.00	\$43.00	\$32.00	Project Engr/CADD Tech.	Clerical	Survey Mgr	Prof Surveyor	Survey Tech II		Survey Tech I	1-Person Field Crew	
Final Design Phase Services																
Project Management (16 hrs per month x 3 mths)																0
Meetings with Client, Incl. Minutes (3)																48
Utility Tracking and Coordination																27
Title Sheet	1															11
Index/Legend/Gen Notes Sheet	2															3
Survey Control Plan	2															11
Erosion Control Project Data & Notes	1															9
Erosion Control Plan Sheets at 1"=40' scale	4															16
Erosion Control Detail Sheets	2															32
Sewer Plan-Profile- York Road North (1" = 20')	2															11
Sewer Plan-Profile- York Road South (1" = 20')	1															44
Sewer Plan-Profile- Valley Villas Drive (1" = 20')	3															22
Sewer Plan-Profile- State Road (1" = 20')	2															66
Manhole, Sewer and Trench Repair Standard Details	3															42
MOT Notes	2															13
MOT Plans	5															10
Technical Specifications and Bid Form Quantities and Cost Estimates for 60%, 90%, and Final Submittals																65
Prepare 60%, 90%, and Final Submittals																38
Review and Respond to City 60%, 90%, and Final Comments																16
QA/QC/QM (30 shis)																21
Total Labor Hours	30	8	28	8	8	8	8	8	8	8	8	8	8	8	8	28
Total Burdened Labor		\$1,612.80	\$25,866.40	\$19,866.00	\$21,772.80	\$280.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$69,398.00

Total Burdened Labor	\$69,398.00
Other Direct Costs	
Mileage	500 \$0.54
Review Set Reproductions (2 Full; 2-Half; and 2 Spec Books at 60%, 90%, and Final)	\$600.00
Photos/Mailings/Misc	\$100.00
Other	\$0.00
Other Direct Costs Total	\$870.00
Total Fee	\$70,368.00

PROJECT: Various Locations for Septic Abandonment/New Sanitary Tie-Ins

PROJECT TASK: Bidding Services

CLIENT/OWNER: City of Parma

LOCATION: Parma, Ohio

DATE: 3/29/2013

Description	No. of Sheets	Div. Mgr.	Project/Task Mgr	Sr Civil Engr	Project Engr/CADD Tech.	STAFF-HOURS								TOTAL										
						\$72.00	\$62.00	\$43.00	\$32.00	\$25.00	\$50.00	\$45.00	\$29.00		\$35.00	\$33.00								
Bid Assistance																								
Project Management				3																				0
Prepare for and Attend Pre-Bid Mtg. Incl Minutes				6	4																			3
Respond to Bidders Questions				2	4																			10
Prepare up to 2 Addenda				4	6	16																		27
Total Labor Hours	0	0	0	15	14	16																		46
Total Burdened Labor		\$0.00	\$2,604.00	\$1,685.60	\$1,433.60	\$70.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,793.20

Total Burdened Labor \$5,793.20

Other Direct Costs

Mileage 100 \$0.54

Bid Set Reproductions (18 Full-Size and 18 Spec Books for Bidding) \$2,000.00

Photos/Mailings/Misc. \$0.00

Other \$0.00

Other Direct Costs Total \$2,000.54

Total Fee \$7,847.20

