

1810 North 12th Street  
P.O. Box 2186  
Toledo, Ohio 43603  
(419) 241-7175

Registered  
Engineers,  
Chemists and  
Geologists

William F. Boyle, president  
Thomas R. Uhler, P.E., vice president  
Technical Services  
Daniel A. Kaniarz, P.E., chief  
Geotechnical Division

Founded in 1927

## Toledo Testing Laboratory, Inc.

November 19, 1985

City of Napoleon  
City Engineer  
P.O. Box 151  
Napoleon, Ohio 43545

Attention: Mr. John Helberg

RE: FIRE STATION REPAIRS

Gentlemen:

I am enclosing a proposal that will cover the cost of the testing and inspection services that will be required on the above referenced project.

Please call if there are any questions.

Very truly yours,

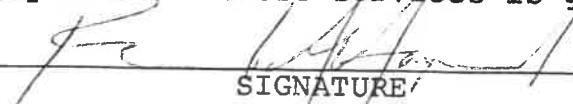
TOLEDO TESTING LABORATORY, INC.

Timothy P. Weltin  
Chief Geologist

TPW/dd

Enclosure

Authorization to proceed with the above work is granted and payment for these services is guaranteed by:

  
\_\_\_\_\_  
SIGNATURE

11-21-85  
\_\_\_\_\_  
DATE

Richard A. Hayward, City Manager  
\_\_\_\_\_  
PRINTED NAME AND TITLE

Please sign and return one copy to Toledo Testing Laboratory, Inc.



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# Toledo Testing Laboratory, Inc.

ITEM:

19. Relative Density Determination (Maximum and Minimum)...\$114.50/each
20. Mechanical Analysis on soils (includes Hydrometer and Sieve combined).....\$ 85.90/sample
21. Atterberg Limits - Liquid Limits, Plastic Limits, Plasticity Index and Group Index.....\$ 52.20/sample
22. Molding, curing and strength determination of set of three (3) cylinders for Aggregate-Lime-Fly Ash Base.....\$120.20/set
23. For Marshall Stability and Flow Tests - set of three, molding and testing specimens.....\$120.20/set
24. For extraction (Bitumen content and gradation of asphalt sample).....\$ 84.20/sample
25. For determination of maximum density of asphalt pavement sample (Marshall Density).....\$105.50/sample
26. Theoretical maximum density of asphalt mix (ASTM D-2041).....\$ 54.10/sample
27. For laboratory density of field asphalt sample.....\$ 18.00/sample
28. For determination of asphalt mix design based on aggregate sieve analysis.....\$159.00/mix
29. Fireproofing density test.....\$ 40.00/sample
30. For mileage to and from the project.....\$ 0.35/mile
31. For overnight expenses should they be required (motel, meals, etc.).....\$ 50.00/day

ABOVE QUOTED PRICES IN EFFECT THROUGH DECEMBER 31, 1985



## TESTING AND INSPECTION SERVICES

### COST SCHEDULE - 1985

#### ITEM:

1. Testing and inspection services - concrete, soils, asphalt, roofs

For services of an engineering technician during a normal eight (8) hour work day.....\$29.60/hour  
Time outside of a normal eight (8) hour day and Saturday work will be charged at the rate of.....\$37.00/hour  
Sunday work will be charged at the rate of.....\$44.40/hour  
Holiday work will be charged at the rate of.....\$59.20/hour  
Time will be charged portal to portal with a four (4) hour minimum per trip.

2. Inspection services - structural steel, caissons, fireproofing

For services of an engineering technician during a normal eight (8) hour work day.....\$32.30/hour  
Time outside of a normal eight (8) hour day and Saturday work will be charged at the rate of.....\$40.40/hour  
Sunday work will be charged at the rate of.....\$48.50/hour  
Holiday work will be charged at the rate of.....\$64.60/hour  
Time will be charged portal to portal with a four (4) hour minimum per trip.

3. Consulting services

For services of an industrial hygienist.....\$40.00/hour  
For services of a geologist.....\$40.00/hour  
For services of a chief geologist.....\$60.00/hour  
For services of a chemist.....\$50.00/hour  
For services of a chief chemist.....\$57.00/hour  
For services of an engineer.....\$52.00/hour  
For services of a professional engineer.....\$75.00/hour  
Time outside of a normal eight (8) hour work day will be charged at a rate of 1.25 times the base rate.

4. For Windsor Probe testing of hardened concrete.....\$40.30/test plus technician's time

5. For sampling of material for laboratory analysis or pick up of concrete test specimens.....\$29.60/hour  
Time will be charged portal to portal with a one (1) hour minimum per trip.



# Toledo Testing Laboratory, Inc.

## ITEM:

6. For drilling of cores using a thin-walled diamond core barrel with a two-man crew during a normal eight (8) hour day.....\$ 79.50/hour  
Time outside of a normal eight (8) hour day and all Saturday work will be charged at the rate of.....\$ 99.40/hour  
Sunday work will be charged at the rate of.....\$119.30/hour  
Holiday work will be charged at the rate of.....\$159.00/hour  
Time will be charged portal to portal with a minimum of four (4) hours per trip.  
For determining compressive strength of drilled cores..\$ 22.90/each
7. For concrete test cylinder curing, testing and reporting of compressive strength when molded by the Toledo Testing Laboratory technician.....\$ 11.90/each
8. For concrete test cylinder curing, testing and reporting of compressive strength when molded by others.....\$ 17.20/each
9. For preparing a trial mix to verify a Portland cement concrete mix design as submitted by the supplier.....\$174.00/each
10. Portland cement concrete mix design to include sieve analysis of fine and coarse aggregates, unit weight of coarse aggregate, bulk specific gravities of aggregates, and absorption of aggregates at.....\$348.00/each
11. Flexure tests on molded concrete beams.....\$ 19.50/test
12. For sieve analysis of granular material.....\$ 40.00/sample
13. For sieve analysis of granular material including loss by washing.....\$ 51.50/sample
14. Wear Test - (Los Angeles Abrasion Test).....\$154.70/each
15. Sodium Sulfate Soundness, 5 cycle.....\$143.10/each
16. Organic Impurities of Sand.....\$ 22.90/each
17. Charge for use of a Nuclear Moisture-Density Gage for testing soils or asphalt compaction.....\$ 26.50/day
18. Moisture Density Relationship Curve for soils (Standard and Modified Proctor).....\$147.70/each