

E. C. Gerken & Associates, Inc.

Consulting Engineers and Surveyors

Eugene C. Gerken, P. E., P.S.
Robert B. Ernsberger, P. S.

1933 East Second Street
Defiance, Ohio 43512
A/C 419 - 784-0332

July 28, 1980

City of Napoleon
City Inspector
255 Riverview Avenue
Napoleon, Ohio 43545

Attn: R. E. Johnson

1775 Industrial

Re: City of Napoleon
Service Building
Compaction Test

Gentlemen:

Attached please find the compaction test results taken July 24, 1980 at the above referenced project. Our Standard Proctor results yielded a maximum density of 123.0 pcf and an optimum moisture content of 10.1%. These figures have been shown on the test data sheet along with the percent compaction figure for each test.

If you have any further questions, please contact our office.

Sincerely,

Marc S. Gerken

Marc S. Gerken, P.E.

MSG:es

Enclosure

E.C. GERKEN & ASSOC., INC.
 DEFIANCE, OHIO

NUCLEAR COMPACTION
 TEST DATA

PROJECT City of Napoleon Service Bldg.
 JOB NUMBER _____
 DATE 7/24/80
 TAKEN BY M. Gerken

TEST NUMBER	1	2	3	4	5	6	7	8	9	10
STREET	Bay 10	Bay 8	Bay 6	Bay 4						
LOCATION	South End	South End	South End	South End						
STATION										
MODE & DEPTH	12"	12"	12"	12"						
DENS. STAND.	3215	3215	3215	3215						
MSTRE. STAND.	597	597	597	597						
DRY DENS.	124.7	122.4	120.0	118.0						
WET DENS.	133.8	135.2	128.9	128.3						
MOISTURE	9.2	12.8	8.9	10.3						
% MOISTURE	7.4	10.5	7.4	8.7						
OPT. MSTRE.	10.1	10.1	10.1	10.1						
DENS. STD.	123.0	123.0	123.0	123.0						
% COMPACTION	100%	99%	98%	96%						

TEST NUMBER	11	12	13	14	15	16	17	18	19	20
STREET										
LOCATION										
STATION										
MODE & DEPTH										
DENS. STAND										
MSTRE. STAND										
DRY DENS.										
WET DENS.										
MOISTURE										
% MOISTURE										
OPT. MSTRE.										
DENS. STD.										
% COMPACTION										

REMARKS: Sunny, 80'S

City Inspector - R.E. Johnson (Obs present at job site)

Pilled at 4th Sand (Anomalous) for Proctor Test

BOWSER-MORNER Testing Laboratories, Inc.

Founded 1911

TOLEDO DISTRICT • 122 S. St. Clair St. • P.O. Box 838 • Toledo, Ohio 43696 • 419/255-8200

REPORT OF CONCRETE COMPRESSIVE STRENGTH TESTS

THIS LABORATORY SUBSCRIBES TO THE REQUIREMENTS OF ASTM E-329
AND IS ACCREDITED BY CONSULTING ENGINEERS OF OHIO

Our Lab. No. T-12553 June 30, 1980

Client Mel Lanzer Co. Client's Order No. _____
 Client's Address 2260 N. Scott Street Project No. 33292
Napoleon, Ohio 43545
 Project Napoleon City Garage - Napoleon, Ohio
 Contractor _____
 Location of Pour Footers

RECEIVED
JUL 21 1980
MEL LANZER CO.

CYLINDERS ARE NOMINAL 6" X 12" WITH AN AREA OF 27.98 SQUARE INCHES.

Cylinder No. IL	2-A	2-B	2-C		
Date Made	6-19-80				
Date Received in Lab. ...	6-24-80				
Date Tested	6-26-80	7-17-80	7-17-80		
Age at Test, days	7	28	28		
Maximum Load, lbs. ...	95,000	128,000	127,250		
Strength, psi	3400	4570	4550		
Specified Strength, psi ..	3,000 psi @ 28 days				
Slump, Inches					
Air Content, %					
Weight of Cylinder, lbs. .	28.5	28.9	28.9		
Failure	Normal				
Cured	Lab				
Temperature, Concrete .	70°				
Temperature, Air	65°				
Time of Field Test					

CEMENT: Type and Brand	Gen. Port.	CONCRETE: Mix or Class	
	Water-Cement Ratio ...		
AGGREGATES: Size		Furnished By	Sanholtz Supply
Type		Type of Mixing	
Source		Truck No.	
ADMIXTURES:		Delivery Ticket No.	
		Cylinders Made By	Client
		Curing Field	

Distribution
2-Client

1s

REMARKS:
 Max. Agg. - Size # 57
 Water/Cement Ratio Gallons per cubic yards-29
 5 1/2 sacks of cement per cubic yard

Ray J. Ferguson

As a Mutual Protection to Clients, the Public and Ourselves, All Reports Are Submitted as the Confidential Property of Clients, and Authorization for Publication of Statements, Conclusions or Extracts from or Regarding Our Reports is Reserved Pending Our Written Approval.

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Our Lab. No. T-12633 July 3, 1980

Client Mel Lanzer Co. Client's Order No. _____
 Client's Address 2260 N. Scott Street Project No. 33292
Napoleon, Ohio 43545

Project Napoleon City Garage - Napoleon, Ohio

Contractor _____

Location of Pour Footers

CYLINDERS ARE NOMINAL 6" X 12" WITH AN AREA OF 27.98 SQUARE INCHES.

Cylinder No.	3-A	3-B	3-C			
IL						
Date Made	6-25-80					
Date Received in Lab...	6-27-80					
Date Tested	7-2-80	7-23-80	7-23-80			
Age at Test, days	7	28	28			
Maximum Load, lbs. ...	66,000	88,000	90,000			
Strength, psi	2360	3150	3220			
Specified Strength, psi ..	3,000 psi @ 28 days					
Slump, Inches						
Air Content, %						
Weight of Cylinder, lbs. .	28.0	28.2	28.1			
Failure						
Cured						
Temperature, Concrete .	72					
Temperature, Air	82					
Time of Field Test						

RECEIVED
JUL 30 1980
MEL LANZER CO.

CEMENT: Type and Brand	General Portland	CONCRETE: Mix or Class	
	29 Gallon		
Water-Cement Ratio ...		Batch Size	
AGGREGATES:		Furnished By	
Size	Max. Agg. size #57	Type of Mixing	
Type		Truck No.	
Source		Delivery Ticket No.	
ADMIXTURES:		Cylinders Made By	Client
		Curing Field	

Distribution

REMARKS:

5 1/2 sacks of cement per cubic yard
23 yard rep. by sample

2-Client
1s

Ray S. Lequason

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THIS LABORATORY SUBSCRIBES TO THE REQUIREMENTS OF ASTM E-329
AND IS ACCREDITED BY CONSULTING ENGINEERS OF OHIO

Our Lab. No. T-12512 June 25, 1980

Client Mel Lanzer Company Client's Order No. _____
 Client's Address 2260 N. Scott Street Project No. 33292
Napoleon, Ohio 43545
 Project Napoleon City Garage - Napoleon, Ohio
 Contractor _____
 Location of Pour Footings

CYLINDERS ARE NOMINAL 6" X 12" WITH AN AREA OF 27.98 SQUARE INCHES.

Cylinder No. II	1-A	1-B	1-C		
Date Made	6-17-80				
Date Received in Lab...	6-18-80				
Date Tested	6-24-80	7-15-80	7-15-80		
Age at Test, days	7	28	28		
Maximum Load, lbs. ...	85,250	118,000	119,000		
Strength, psi	3050	4220	4250		
Specified Strength, psi ..	3000 psi @ 28 days				
Slump, Inches					
Air Content, %	5.0				
Weight of Cylinder, lbs. .	28.5	28.6	28.7		
Failure	Normal				
Cured	Lab				
Temperature, Concrete .	70°				
Temperature, Air	70°				
Time of Field Test	2:30 p.m.				

CEMENT:	One Gen. Port.	CONCRETE:	
Type and Brand		Mix or Class	
Water-Cement Ratio...		Batch Size	
AGGREGATES:		Furnished By	Sanholts Supply
Size	Max Agg. size #57	Type of Mixing	
Type		Truck No.	
Source		Delivery Ticket No.	
ADMIXTURES:		Cylinders Made By	Client
		Curing Field	

Distribution
2-Client

REMARKS:
5 1/2 sacks of cement per cubic yard

RECEIVED
JUL 18 1980
MEL LANZER CO.

Jay S. Ferguson

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REPORT OF CONCRETE COMPRESSIVE STRENGTH TESTS

THIS LABORATORY SUBSCRIBES TO THE REQUIREMENTS OF ASTM E-329
AND IS ACCREDITED BY CONSULTING ENGINEERS OF OHIO

Our Lab. No. T-12775 July 15, 1980

Client Mel Lanzer Co. Client's Order No. _____

Client's Address 2260 N. Scott Street Project No. 33292

Napoleon, Ohio 43545

Project Napoleon City Garage - Napoleon, Ohio

Contractor _____

Location of Pour E. Wall

CYLINDERS ARE NOMINAL 6" X 12" WITH AN AREA OF 27.98 SQUARE INCHES.

Cylinder No. IL	4-A	4-B	4-C		
Date Made	7-7-80				
Date Received in Lab.	7-9-80				
Date Tested	7-14-80	8-4-80	8-4-80		
Age at Test, days	7	28	28		
Maximum Load, lbs.	71,750				
Strength, psi.	2560				
Specified Strength, psi ..	3,000 psi @ 28 days				
Slump, Inches					
Air Content, %					
Weight of Cylinder, lbs. .	28.2				
Failure	Normal				
Cured	Lab				
Temperature, Concrete .					
Temperature, Air					
Time of Field Test					

CEMENT:	Portland	CONCRETE:	5 1/2 Bag
Type and Brand		Mix or Class	
Water-Cement Ratio ...		Batch Size	
AGGREGATES:		Furnished By	
Size	Type of Mixing.	Truck No.	
Type	Source	Delivery Ticket No.	
ADMIXTURES:		Cylinders Made By	Client
		Curing Field	

Distribution
2-Client
1s

REMARKS:
Fine Agg. - (Gerken Source)-amount 1360
Coarse Agg. - Pugh Stone - 1760
Cement - 517
Water - 29 Gal.
6 oz. air

RECEIVED
JUL 18 1980
MEL LANZER CO.

Sally S. Ferguson

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Our Lab. No. T-12633 July 3, 1980

Client Mel Lanzer Co. Client's Order No. _____
 Client's Address 2260 N. Scott Street Project No. 33292
Napoleon, Ohio 43545

Project Napoleon City Garage - Napoleon, Ohio

Contractor _____

Location of Pour Footers

CYLINDERS ARE NOMINAL 6" X 12" WITH AN AREA OF 27.98 SQUARE INCHES.

Cylinder No. IL	3-A	3-B	3-C			
Date Made	6-25-80					
Date Received in Lab ...	6-27-80					
Date Tested	7-2-80	7-23-80	7-23-80			
Age at Test, days	7	28	28			
Maximum Load, lbs. ...	66,000					
Strength, psi	2360					
Specified Strength, psi ..	3,000 psi @ 28 days					
Slump, Inches						
Air Content, %						
Weight of Cylinder, lbs. .	28.0					
Failure						
Cured						
Temperature, Concrete .	72					
Temperature, Air	82					
Time of Field Test						

RECEIVED
JUL - 7 1980
MEL LANZER CO.

CEMENT: Type and Brand	General Portland	CONCRETE: Mix or Class	
	29 Gallon		
Water-Cement Ratio ...		Batch Size	
AGGREGATES: Size	Max. Agg. size #57	Furnished By	
Type		Type of Mixing	
Source		Truck No.	
ADMIXTURES:		Delivery Ticket No.	
		Cylinders Made By	Client
		Curing Field	

Distribution
2-Client
1s

REMARKS:
5 1/2 sacks of cement per cubic yard
23 yard rep. by sample

Ray S. Ferguson

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Our Lab. No. T-12553 June 30, 1980

Client Mel Lanzer Co. Client's Order No. _____
 Client's Address 2260 N. Scott Street Project No. 33292
Napoleon, Ohio 43545
 Project Napoleon City Garage - Napoleon, Ohio
 Contractor _____
 Location of Pour Footers

CYLINDERS ARE NOMINAL 6" X 12" WITH AN AREA OF 27.98 SQUARE INCHES.

Cylinder No. IL	2-A	2-B	2-C			
Date Made	6-19-80					
Date Received in Lab. ...	6-24-80					
Date Tested	6-26-80	7-17-80	7-17-80			
Age at Test, days	7	28	28			
Maximum Load, lbs. ...	95,000					
Strength, psi	3400					
Specified Strength, psi ..	3,000 psi @ 28 days					
Slump, Inches						
Air Content, %						
Weight of Cylinder, lbs. .	28.5					
Failure	Normal					
Cured	Lab					
Temperature, Concrete .	70°					
Temperature, Air	65°					
Time of Field Test						

RECEIVED
JUL -7 1980
MEL LANZER CO.

CEMENT:	Gen. Port.	CONCRETE:	
Type and Brand		Mix or Class	
Water-Cement Ratio ...		Batch Size	
AGGREGATES:		Furnished By	Sanholtz Supply
Size		Type of Mixing	
Type		Truck No.	
Source		Delivery Ticket No.	
ADMIXTURES:		Cylinders Made By	Client
		Curing Field	

Distribution
2-Client

1s

REMARKS:
 Max. Agg. - Size # 57
 Water/Cement Ratio Gallons per cubic yards-29
 5 1/2 sacks of cement per cubic yard

Jay J. Ferguson

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Our Lab. No. T-12775 July 15, 1980

Client Mel Lanzer Co. Client's Order No. _____

Client's Address 2260 N. Scott Street Project No. 33292

Napoleon, Ohio 43545

Project Napoleon City Garage - Napoleon, Ohio

Contractor _____

Location of Pour E. Wall

CYLINDERS ARE NOMINAL 6" X 12" WITH AN AREA OF 27.98 SQUARE INCHES.

Cylinder No. ... IL ...	4-A	4-B	4-C		
Date Made	7-7-80				
Date Received in Lab. ...	7-9-80				
Date Tested	7-14-80	8-4-80	8-4-80		
Age at Test, days	7	28	28		
Maximum Load, lbs. ...	71,750	92,500	94,500		
Strength, psi	2560	3310	3380		
Specified Strength, psi ..	3,000 psi @ 28 days				
Slump, Inches					
Air Content, %					
Weight of Cylinder, lbs. .	28.2	28.1	28.1		
Failure	Normal				
Cured	Lab				
Temperature, Concrete .					
Temperature, Air					
Time of Field Test					

RECEIVED
AUG - 8 1980
MEL LANZER CO.

CEMENT:		CONCRETE:	
Type and Brand	Portland	Mix or Class	5 1/2 Bag
Water-Cement Ratio ...		Batch Size	
AGGREGATES:		Furnished By	
Size		Type of Mixing	
Type		Truck No.	
Source		Delivery Ticket No.	
ADMIXTURES:		Cylinders Made By	Client
		Curing Field	

Distribution
2-Client
1s

REMARKS:
Fine Agg. - (Gerken Source)-amount 1360
Coarse Agg. - Pugh Stone - 1760
Cement - 517
Water - 29 Gal.
6 oz. air

Larry S. Ferguson

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Our Lab. No. T-13258 August 20, 19 80

Client Mel Lanzer Company Client's Order No. _____
 Client's Address 2260 N. Scott Street Project No. 33292
Napoleon, Ohio 43545
 Project Napoleon City Garage - Napoleon, Ohio
 Contractor _____
 Location of Pour Floor

CYLINDERS ARE NOMINAL 6" X 12" WITH AN AREA OF 27.98 SQUARE INCHES.

Cylinder No. IL	5-A	5-B	5-C			
Date Made	8-5-80					
Date Received in Lab...	8-12-80					
Date Tested	8-19-80	9-2-80	9-2-80			
Age at Test, days	7	28	28			
Maximum Load, lbs. ...	91,000					
Strength, psi	3250					
Specified Strength, psi ..	3,000 psi @ 28 days					
Slump, Inches						
Air Content, %						
Weight of Cylinder, lbs. .	27.9					
Failure						
Cured						
Temperature, Concrete .	75					
Temperature, Air	85					
Time of Field Test						
Unit Weight	136.0					

RECEIVED
AUG 23 1980
MEL LANZER CO.

CEMENT: Type and Brand	Portland	CONCRETE: Mix or Class	5 1/2 sacks per cu. yd.
	Water-Cement Ratio...		5.27 Gallons per sack
AGGREGATES: Size	Max. #57	Furnished By	Sanholtz Supply
Type		Type of Mixing	
Source		Truck No.	
ADMIXTURES:	A/E 6 oz./yd.	Delivery Ticket No.	
		Cylinders Made By	Client
		Curing Field	

Distribution **REMARKS:** Rep. by sample 60 yards

2-Client
1s

Gary M. Neutzling

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Our Lab. No. T-13258 August 20, 19 80

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Napoleon, Ohio 43545
 Project Napoleon City Garage - Napoleon, Ohio
 Contractor _____
 Location of Pour Floor

CYLINDERS ARE NOMINAL 6" X 12" WITH AN AREA OF 27.98 SQUARE INCHES.

Cylinder No.	5-A	5-B	5-C		
IL					
Date Made	8-5-80				
Date Received in Lab...	8-12-80				
Date Tested	8-19-80	9-2-80	9-2-80		
Age at Test, days	7	28	28		
Maximum Load, lbs. ...	91,000	103,000	104,000		
Strength, psi	3250	3680	3720		
Specified Strength, psi ..	3,000 psi @ 28 days				
Slump, Inches					
Air Content, %					
Weight of Cylinder, lbs. .	27.9	27.7	28.0		
Failure					
Cured					
Temperature, Concrete .	75				
Temperature, Air	85				
Time of Field Test					
Unit Weight	136.0				

RECEIVED
SEP - 6 1980
MEL LANZER CO.

CEMENT:	Portland	CONCRETE:	5 1/2 sacks per cu. yd.
Type and Brand	5.27 Gallons per sack	Mix or Class	
Water-Cement Ratio ...		Batch Size	
AGGREGATES:		Furnished By	Sanholtz Supply
Size	Max. #57	Type of Mixing	
Type		Truck No.	
Source		Delivery Ticket No.	
ADMIXTURES:	A/E 6 oz./yd.	Cylinders Made By	Client
		Curing Field	

Distribution **REMARKS:** Rep. by sample 60 yards

2-Client
1s

Gary M. Neutzling

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Sender: Write or type message, pull out yellow sheet, mail the other two by folding in half and inserting in #771 DU-O-VUE envelope.

FORM 187-3 Available from **NEBS** Inc., Groton, Mass. 01450

NO CARBON PAPER REQUIRED: Type or write on original - impression will automatically appear on copies beneath.

FROM

MEL LANZER CO.
2266 North Scott Street
NAPOLEON, OHIO 43545

Message Reply

DATE:
November 13, 1980

PRIORITY	
<input checked="" type="checkbox"/>	URGENT!
<input type="checkbox"/>	SOON AS POSSIBLE
<input type="checkbox"/>	NO REPLY NEEDED

FILE NO.

ATTENTION:

(419) 592-2801

TO

Grinnell Fire Protection Systems Co., Inc.
1642 Ralston Circle
Toledo, OH 43615

SUBJECT:
City of Napoleon Municipal Bldg.

MESSAGE

This letter is to notify you that the City Municipal Garage is to be ready for occupancy November 30, 1980, and the building must be completed and cleaned up by that date.

In order to meet this completion date, you will need to put more people on the job.

I hope you will cooperate in this matter.

MEL LANZER COMPANY

Richard H. Schaeffer
SIGNED:

cc: City of Napoleon

DATE OF REPLY:

REPLY TO:

REPLY

SIGNED:

SENDER: MAIL RECIPIENT WHITE AND PINK SHEETS.

SENDER: DETACH AND FILE FOR FOLLOW-UP.

Sender: Write or type message, pull out yellow sheet, mail the other two by folding in half and inserting in #771 DU-O-VUE envelope.

FORM 187-3 Available from NEBS Inc., Groton, Mass. 01450

NO CARBON PAPER REQUIRED: Type or write on original - impression will automatically appear on copies beneath.

FROM

MEL LANZER CO.
2266 North Scott Street
NAPOLEON, OHIO 43545

Message
Reply

DATE:

November 13, 1980

FILE NO.

ATTENTION:

PRIORITY

- URGENT!
- SOON AS POSSIBLE
- NO REPLY NEEDED

(419) 592-2801

TO

Jim Speiser & Sons, Inc.
PO Box 545
Napoleon, OH 43545

SUBJECT:

City of Napoleon Municipal Bldg.

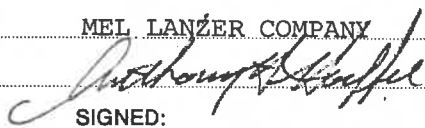
MESSAGE

This letter is to notify you that the City Municipal Garage is to be ready for occupancy November 30, 1980, and the building must be completed and cleaned up by that date.

In order to meet this completion date you will need to put more people on the job.

I hope you will cooperate in this matter.

MEL LANZER COMPANY



SIGNED:

cc: City of Napoleon

DATE OF REPLY:

REPLY TO:

REPLY

SIGNED:

SENDER: MAIL RECIPIENT WHITE AND PINK SHEETS.

SENDER: DETACH AND FILE FOR FOLLOW-UP.

CITY OF NAPOLEON, OHIO
DIVISION OF BUILDING
INSPECTOR'S

Address of Property New Service Garage Date 7/7/80

Single Two-Family Apt. Comm

Type of Inspection Requested by: SEWAGE TEST

Name _____

Address _____

Telephone _____

Permit No. _____

Excavation _____

Footers _____

Footing Drains _____

Ext. Storm _____

Ext. Sanitary _____

Int. Storm _____

Int. Sanitary _____

Foundation Final _____

Framing _____
Electrical _____
Plumbing _____
Heating _____
Misc. _____

REMARKS 10:00 TODAY

3 cylinders taken at middle of run

Date 7/7/80 Inspector P. Grayman



GRINNELL FIRE PROTECTION SYSTEMS COMPANY, INC.

Executive Offices - Providence, RI

- I CONTRACT FOR AUTOMATIC SPRINKLER EQUIPMENT INSPECTION
- II CONTRACT FOR TESTING OF FIRE ALARM AND DETECTION EQUIPMENT
- III COMBINED CONTRACT FOR THE ABOVE PROGRAMS I & II

AGREEMENT made this 10 day of January, 1984, between GRINNELL FIRE PROTECTION SYSTEMS COMPANY, INC., hereinafter called the CONTRACTOR, and City of Napoleon

located at 255 Riverview, Napoleon, Ohio 43545 hereinafter called the SUBSCRIBER, for the above indicated contract option.

WITNESSETH, that:
Subscriber owns and/or occupies premises located at 639 Industrial Dr. in the city of Napoleon state of Ohio, wherein there is now installed certain automatic sprinkler and/or fire alarm and detection equipment, to wit: One (1) wet pipe sprinkler system, fire department pump connection, control valves, alarms, and all other fire related equipment.

Scope of Work

Contractor shall inspect and/or test the equipment described herein in accordance with the contract option selected above and the Contractor's then current Report Form. All in accordance with the terms and conditions contained herein and on the reverse side hereof.

Number of Inspections

The Contractor shall inspect and/or test said installation 1 (one) times per year at regular intervals.

Cost of Inspection and Payment

The Subscriber shall pay to Contractor within 10 days after the first inspection has been made the sum of One Hundred and Thirty five Dollars and No/100 Dollars (\$ 135.⁰⁰). If the Subscriber fails to pay the full amount due, Contractor, may at its option, terminate this contract, and, in any event, will not be obligated to perform any additional work until payment of the amount past due has been received by contractor.

Report of Inspection

Notice of this agreement and copies of all Reports of Inspection and/or test will be forwarded by the Contractor to None the insurance authority having jurisdiction and to the Subscriber. Notice of termination or change in number of inspections per year by the Contractor shall be given to the insurance authority.

Limitation of Liability

The Contractor makes NO WARRANTIES, EXPRESS, OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE. No promise not contained herein or affirmation of fact made by any employee, agent or representative of the Contractor shall constitute a warranty by the Seller or give rise to any liability or obligation.
Contractor's liability to Subscriber for personal injury, death, or property damage arising from performance under this contract shall be limited to the contract price. Subscriber shall hold Contractor harmless from any and all third party claims for personal injury, death or property damage, arising from Subscriber's failure to maintain these systems or keep them in operative condition, whether based upon contract, warranty, tort, strict liability or otherwise. In no event shall the Contractor be liable for any special, indirect, incidental, consequential or liquidated, penal or any economic loss damages of any character, including but not limited to loss of use of the Subscriber's property, lost profits or lost production, whether claimed by the Subscriber or by any third party, irrespective of whether claims or actions for such damages are based upon contract, warranty, negligence, tort, strict liability or otherwise.

GRINNELL FIRE PROTECTION SYSTEMS COMPANY, INC.
BY Darlene B. Wood
TITLE Inspector
ADDRESS 2823 Heslip
Novi, MI

ACCEPTED BY:
SUBSCRIBER City of Napoleon
BY Richard S. Kayman
TITLE Building Commissioner
DATE SIGNED Jan 10 1984
WITNESS

531-0109
666-0052
882-4755



1/12

GRINNELL

HYDRAULIC DESIGN INFORMATION SHEET

NAME City of Napoleon Municipal Service + Storage Building DATE 6/10/80
 LOCATION 639 Industrial Dr., Napoleon Ohio
 BUILDING _____ SYSTEM NO. _____
 CONTRACTOR Grinnell Fire Protection Systems CONTRACT NO. 65-3360300 PB
 CALCULATED BY Stanley Augie DRAWING NO. 1 of 1
 CONSTRUCTION: COMBUSTIBLE NON-COMBUSTIBLE CEILING HEIGHT 24-0 FT.
 OCCUPANCY _____
 APPROVING AUTHORITIES I.S.O.

SYSTEM DESIGN	<input type="checkbox"/> NFPA 13: _____	<input type="checkbox"/> LT. HAZ. _____	ORD. HAZ. GP. <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> EX. HAZ. _____
	<input type="checkbox"/> NFPA 231 _____	<input type="checkbox"/> NFPA 231C: _____	FIGURE _____; CURVE _____
	<input checked="" type="checkbox"/> OTHER (Specify) <u>.16 / 3000</u> <input checked="" type="checkbox"/>		
	<input type="checkbox"/> SPECIFIC RULING _____	MADE BY _____	DATE _____
AREA OF SPRINKLER OPERATION <u>3000</u> <input checked="" type="checkbox"/>	DENSITY <u>.16</u>	AREA PER SPRINKLER <u>125</u> <input checked="" type="checkbox"/>	SYSTEM TYPE <input checked="" type="checkbox"/> WET <input type="checkbox"/> DRY <input type="checkbox"/> DELUGE <input type="checkbox"/> PRE-ACTION
HOSE ALLOWANCE GPM: INSIDE <u>250</u>	HOSE ALLOWANCE GPM: OUTSIDE <u>250</u>	RACK SPRINKLER ALLOWANCE _____	SPRINKLER OR NOZZLE MAKE <u>Grinnell</u> MODEL <u>SSU</u> SIZE <u>1/2</u> K-FACTOR <u>5.56</u> TEMPERATURE RATING <u>212</u>

CALCULATION SUMMARY
 GPM REQUIRED 1020 PSI REQUIRED 54.2 At city connection (Specify Location)
 "C" FACTOR USED: OVERHEAD 120 UNDERGROUND 140

WATER SUPPLY	WATER FLOW TEST	PUMP DATA	TANK OR RESERVOIR
	DATE & TIME <u>Oct 30, 1977</u>	RATED CAPACITY _____	CAPACITY _____
	STATIC PSI <u>65</u>	AT PSI _____	ELEVATION _____
RESIDUAL PSI <u>54</u>	ELEVATION _____		
GPM FLOWING <u>1371</u>		WELL	
ELEVATION <u>0</u>		PROOF FLOW _____ GPM	

LOCATION See Drawing
 SOURCE OF INFORMATION City of Napoleon Water Dept

COMMODITY STORAGE
 COMMODITY _____ CLASS _____ LOCATION _____
 STORAGE HEIGHT _____ AREA _____ AISLE WIDTH _____
 STORAGE METHOD: SOLID PILED _____ % PALLETIZED _____ % RACK _____

COMMODITY STORAGE	<input type="checkbox"/> SINGLE ROW	<input type="checkbox"/> CONVENTIONAL PALLET	<input type="checkbox"/> AUTOMATIC STORAGE	<input type="checkbox"/> ENCAPSULATED
	<input type="checkbox"/> DOUBLE ROW	<input type="checkbox"/> SLAVE PALLET	<input type="checkbox"/> SOLID SHELVING	<input type="checkbox"/> NON-ENCAPSULATED
	<input type="checkbox"/> MULTIPLE ROW		<input type="checkbox"/> OPEN	
RACK	FLUE SPACING IN INCHES LONGITUDINAL _____ TRANSVERSE _____		CLEARANCE FROM TOP OF STORAGE TO CEILING _____ FT. _____ IN.	
	HORIZONTAL BARRIERS PROVIDED _____			

CITY OF NAPOLEON
BUILDING DEPT.

APPROVED
JUN 16 1980
MEL LANZER CO

By [Signature] Date 3 1980