### 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 Judistrical
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, P.E.

Marc S. Huke

MSG:es

Enclosure

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

# COMPACTION

DATA

JOB NUMBER PROJECT City of Mopoleon Service Blog.

DATE 7/24/80

TAKEN BY M. Goken

TEST NUMBER	_	N	ы	4	OI	თ	7	8	9	-0
STREET	Bay 10	Bay 8	13ay 6	Bay 4						
LOCATION	South End	South End South End South End	South End	South End						
STATION										
MODE & DEPTH	12"	12"	12"	12"						
DENS. STAND.	3215	32/5	32/5	32/5						
MSTRE. STAND.	597	597	597	597						
DRY DENS.	124.7	122.4	120.0	18.0						
WET DENS.	133.8	135.2	128.9	128.3						
MOISTURE	2.2	12.8	8.9	10.3						
% MOISTURE	7.4	10.5	7.4	7.8						
OPT. MSTRE.	10.1	10.1	10,1	10.1						
DENS. STO.	123.0	123.0	123.0	123.0						
% COMPACTION		99%	78%	96%						

TEST NUMBER	=	- 2	13	14	1 5	16	17	18	9	20
STREET										
LOCATION										
STATION										
MODE & DEPTH										
DENS. STAND										
MSTRE. STAND										
DRY DENS.										
WET DENS.										
MOISTURE										
% MOISTURE	A September 1875	Medical Control of the Control of th								
OPT. MSTRE.	to free or	MANUAL PARTY						The was the state of	180 240	
DENS. STD.								State Sales	である。	
% COMPACTION		の子子の世帯						のでは、 は、 は、 は、 は、 は、 は、 は、 は、 は、	A Market	
		REMARKS	5'08, HANDS	2,08				<b>《美国教育》(中国教育</b>		
			City Inspe	-ch RE	City Inspector - R.E. Johnson (Was	ubs present	present at job site	<b>《中国的一个人的一个人的一个人</b>	· · · · · · · · · · · · · · · · · · ·	
	1	がは 中で はかい	P.IL.	Pilled all 417th Sound (Commists) to Proctor Toct	J. ( ) L	Prochu To	+	公司報酬を記する。 第一日本語の記事を記する。 第一日本語の言を記する。 第一日本語の言を記する。 第一日本語の言を記する。 第一日本語の言を記する。 第一日本語の言を記する。 第一日本語の言を記する。 第一日本語の言を記する。 第一日本語の言を記する。 第一日本語の言を記する。 第一日本語の言を記する。 第一日本語の言を記する。 第一日本語の言を言を言を言を言を言を言を言を言を言を言を言を言を言を言を言を言を言を言を	なとなって	

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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. <u>T-125</u>	53	5	JUL 5 J 186	80		June 30,	19 <u>80</u>
Mel T	anzer Co.		JUL 21 IS	CO.			
Client — Ref L Client's Address 2260		o.t	3500	R		Order No	
Client's Address Napol	eon, Ohio 43	EL	ISI PAIN		Project i	No. 33292	
M 1		)4) N1	WER				
	eon City Gara	ge - Napol	eon, Unio				
Contractor	wa						
Location of PourFoote	IS						
CYLINDER	S ARE NOMINA	AL 6" X 1	2" WITH AN	N AREA	OF27	·98QUARE	INCHES.
Cylinder No	2-A	2-В	2-C				
Date Made	16 10 00						
Date Received in Lab	6 01 00						1
Date Tested		7-17-80	7-17-80				
Age at Test, days		28	28				
Maximum Load, Ibs	ME AAA	128,000	127,250				
	0100	4570	4550				
Strength, psi			1330				_
Specified Strength, psi		20 days					
Slump, Inches		1					
Air Content, %	acian au	28.9	28.9				
Weight of Cylinder, lbs.	125	20.9	20.9				-
Failure			_				
Cured	5189	1					
Temperature, Concrete		-					+
Temperature, Air							
Time of Field Test							-
CEMENT:							
Type and Brand	Gen. Port.			ONCRETE:			
Water-Cement Ratio							
AGGREGATES:							Cupp 1 v
Size							виррту
Type Source							
Source			De	livery licke	t No	014	
ADMIXTURES:					e By		
ADMIX TURES:			Cu	iring Field.	• • • • • • • • • •		
Distribution	REMARKS:						
lient		Max. Acc	- Size # 5	57			
			ent Ratio G		ner cubic	varde_20	
			s of cemen				
				.1	10 1		
				· Ica	au III	cigery or	

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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. NoT-	12633				July 3.	1980	
Client's Address 22 Na	l Lanzer Co. 60 N. Scott St poleon, Ohio poleon City Ga	43545		Client's Project I			
Contractor	porton orey or	ilage Napo	reon, onro				
Location of Pour Fo	oters						
CYLINDI	ERS ARE NOMI	NAL 6" X 12	2" WITH AN A	REA OF 27.9	8 SQUARE II	NCHES.	
Cylinder No IL	3-A	3-В	3-C			-0	
Date Made						- EN ED	
Date Received in Lab	6 07 00				DF	CFIA	
Date Tested	7 0 00	7-23-80	7-23-80		141	CENED	
Age at Test, days		28	28			L JO 1960 L LANZER CO	
Maximum Load, lbs.		88,000	90,000		- 31	CC	
Strength, psi	2060	3150	3220			LANZER	
Specified Strength, p					M	also le	
Slump, Inches		_ =0 44,0					
Air Content, %	1						
Weight of Cylinder, I		28.2	28.1				
Failure		2012	20.1				
Cured							
Temperature, Concre							
Temperature, Air					<del> </del>		
Time of Field Test							
CEMENT:	General	Portland	CONC				
Type and Brand	20 Calla			Class			
Water-Cement Ratio				Size			
AGGREGATES:	Max. Aco	. size #57	Furnisi	hed By			
Size		,, 0220 //3/	Iype o	of Mixing			
Type				No			
Source	****		Deliver	ry Ticket No ers Made By			
ADMIXTURES:			Curing	Field			
Distribution	REMARKS						
		5 1/2 sack	s of cement p	per cubic yard	1		
-Client			ep. by sample	•			
S	1						
				•			
				į,			
				The A fe			

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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

Clientl	Mel Lanzer Com						
	2260 N. Scott			Project	No. <u>33292</u>		
	Napoleon, Ohio						
	Napoleon City (	Garage - Nap	oleon, Ohio				
Contractor							
Location of Pour	Cootings						
CYLINDE	RS ARE NOMIN	AL 6" X 12"	WITH AN ARI	EA OF27	.98square in	CHES.	
Cylinder No	[L 1-A	1-В	1-C				
Date Made							
Date Received in Lab.							
Date Tested	6 01 00	7-15-80	7-15-80				
Age at Test, days		28	28				
Maximum Load, lbs		118,000	119,000				
Strength, psi	125-2212342-7	4220	4250				
Specified Strength, psi	0.000 2.00	***					
Slump, Inches							
Air Content, %	F-20 (-07)						
Weight of Cylinder, Ibs	TANK E	28.6	28.7				
Failure							
Cured							
Temperature, Concrete							
Temperature, Air	5 5						
Time of Field Test							
CEMENT:			CONCRE	TE:			
Type and Brand	One Gen. I	ort.	Mix or Cla	ass			
Nater-Cement Ratio.			Batch Size				
AGGREGATES:	4	. 11==	Furnished	Ву	Sanholts Su	pply	
Size	R .	size #5/	Type of N	tixing			
Гуре			Truck No.		Client		
Source			Delivery 1	icket No			
			Cylinders	Made By	Client		
ADMIXTURES:			Curing Fig	eld			
Distribution	REMARKS:		9		PECONICIANT NEC	-0	
lient		5 1/2 sacl	ks of cement p	per cubic ya	ard	MEU	
					nFC	FLA	
					Kr	0 1980	
					1111	10,	
					700	HER	
				2 1	100	LANZE	
			- 1	au 1 te	LOGICA STONEL	-	
				7 1	grade		

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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	75				-	July 15	,	1980_
ClientMe1 La					Client's C	order No		
Client's Address 2260 N	I Scott Str	eet			Project N	o. 332	292	
Monole	on Ohio 4	3545						
Project Napole	on City Cor	age - Nanol	eon Of	io				
	eon City Gar	age Mapor	COII, OI					
Contractor  Location of Pour E. Wal	1.1							
Location of Pour E. wa.								
CYLINDERS	ARE NOMIN	AL 6" X 12	" WITH	AN AR	EA OF27.9	28SQUAI	RE INC	HES.
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	8-4-8	30				
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, Ibs	28.2							
Failure	Norma1							
Cured	Lab							
Temperature, Concrete .								
Temperature, Air								
Time of Field Test								
Time of Flore Toolsgarg.								
CEMENT:				CONCR	ETE:			
Type and Brand	Portland			Mix or C	lass	5 1/2	Bag	
Water-Cement Ratio				Batch Si	ze			
AGGREGATES:				Furnishe	d By			
Size				Type of	Mixing			
Type				Truck N	0			
Source					Ticket No			
				Cylinder	s Made By	Client		
ADMIXTURES:					ield			
				9)				
	+						. 01	TIED
Distribution	REMARKS:	Fine Acc	- (Cark	en Sour	ce)-amount	1360	REC	FLA
lient		Coarse Agg					1100	0 1980
		Cement - 5		DEOILE	1,00		1111-	EIVED 181980
		Water - 29					200	MER
		6 oz. air	GdI.					LANZER
		o oz. arr					WER	r.
					Low Su	0		

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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### REPORT OF CONCRETE COMPRESSIVE STRENGTH TESTS

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

Mo1 T	anzor Co						
ClientMel L Client's Address 2260	anzer Co.	oot .			Client's C		
	eon, Ohio 4				Project N	o. <u>33292</u>	
37 7	eon City Gar		oon Oh	4.0			
	eon city Gar	age - Napor	eon, on	10			
Contractor	<b>M</b> O						
Location of Pour Foote	IS						
CYLINDERS	ARE NOMIN	AL 6" X 12'	WITH	AN ARE	EA OF 27.98	SQUARE IN	ICHES.
Cylinder No IL	3-A	3-B	3-	С			
Date Made	6-25-80						
Date Received in Lab	6-27-80						
Date Tested	7-2-80	7-23-80	7-23-	80			ED
Age at Test, days	7	28	28			DECEIV	5
Maximum Load, lbs	66,000					MEO.	-00
Strength, psi	2360					7	1380
Specified Strength, psi	3,000 psi @	28 days				RECEIN 7	-0
Slump, Inches						MEL LAN	ZER CO.
Air Content, %						MEL LAW	
Veight of Cylinder, lbs	and the second s						
Failure							
Cured							
Femperature, Concrete .							
Temperature, Air	82						
Time of Field Test							
inio di Ficia Tost							
CEMENT:			T	CONCRE	re.		-
Type and Brand	General Portland				ISS		
Vater-Cement Ratio	29 Gallon				133		
AGGREGATES:					Ву		=======================================
Size	Max. Agg.	size #57			lixing		
Гуре							
Source							
				Culindor-	icket No	Client	
ADMIXTURES:					eld		
				Curing Fle	au		
Distribution	REMARKS:			-			
/		5 1/2 sacks	of cer	ent no	cubic yard		
Client		23 yard rep			. cubic yard		
		25 yaru rep	o by Sa	mihre			
	1						

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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

Client		nzer Co.				Client's (	Order No.	
Client's Addres	2260 N	. Scott Stre	et			Project N		
	Napole	on, Ohio 43	545					
Project	Napole	on City Gara	ge - Napol	eon, (	hio			
Contractor								
Location of Po	Footer	s						
200411011 07 1 0								
						0.7	00	
CYL	INDERS.	ARE NOMIN	AL 6" X 12	e" WIT	H AN AR	EA OF	98QUARE II	NCHES.
Cylinder No	IL	2-A	2-В	1 2	2-C			
		6-19-80		_				
Date Made		6-24-80						
Date Received		6-26-80	7-17-80	-17	' <del>-</del> 80		PECEIV'	0
Date Tested	100	7	28		-00		177	Fr
Age at Test, da	•	05 000	40	28			LEIN	
Maximum Loa		95,000	<del> </del>	_			BEO.	1980
Strength, psi		3400	00.3	-				PO.
Specified Strer		3,000 psi @	28 days				-111	JER CO
Slump, Inches							20	MZE
Air Content, %							- Ch L	
Weight of Cylin	nder, lbs	28.5					WEL	
Failure		Normal						
Cured		Lab						
Temperature, (	Concrete .	70°						
Temperature,								
Time of Field								
		T						
CEMENT:		Gen. Port.		- 1	CONCRI			
Type and Bran						lass		
Water-Cemen					Batch Siz	ze		
<b>AGGREGATE</b>	S:				Furnishe	d By	Sanholtz S	upply
Size					Type of	Mixing		
Туре						o		
Source					Delivery	Ticket No		
					Cylinder	s Made By	Client	
<b>ADMIXTURE</b>	S:				Curing F	ield		
					•			
Distribution		REMARKS:						
Client		DEMARKS:	Morr A					
TTEHL			Max. Agg.					
		-	water/Ceme	ent Ka	tio Gallo	ns per cubic	yards-29	
			o 1/2 sack	s of	cement pe	r cubic yard		
		I.						
		1						
						lang 11		

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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

Project Nap Contractor Location of Pour E.	60 N. Scott St poleon, Ohio poleon City Ga Wall  ERS ARE NOMI  4-A 7-7-80 7-9-80 7-14-80 7 71,750 2560 3,000 psi 28.2 Normal Lab	43545 arage - Napo	leon, C	AN AF	REA OF2	ct No	JARE II	
Project Nap Project Nap Contractor Location of Pour E.  CYLINDE  Cylinder No. II. Date Made Date Received in Lab Date Tested Age at Test, days Maximum Load, lbs. Strength, psi Specified Strength, psi Slump, Inches Air Content, % Weight of Cylinder, lbs Failure Cured Temperature, Concrete Temperature, Air Time of Field Test  CEMENT: Type and Brand Water—Cement Ratio . AGGREGATES:	Poleon, Ohio poleon City Ga  Wall  CRS ARE NOMI  4-A  7-7-80  7-9-80  7-14-80  7  71,750  2560  3,000 psi  Ss 28,2  Normal  Lab	43545 arage - Napo  NAL 6" X 12  4-B  8-4-80 28 92,500 3310 6 28 days	1eon, 0	AN AF	Proje	ct No	JARE II	NCHES.
Project Nap Contractor Location of Pour E.  CYLINDE  CYLINDE  Cylinder No. II. Date Made Date Made Date Tested Age at Test, days Maximum Load, lbs. Strength, psi Specified Strength, psi Slump, Inches Air Content, % Weight of Cylinder, lbs Failure Cured Temperature, Concrete Temperature, Air Time of Field Test  CEMENT: Type and Brand Water—Cement Ratio . AGGREGATES:	Wall  ARS ARE NOMI  4-A 7-7-80 7-9-80 7-14-80 7 1.750 2560 3.000 psi  ss 28.2 Normal Lab	NAL 6" X 12  4-B  8-4-80 28 92,500 3310 6 28 days	8-4- 28 94,5 3380	AN AF		27.98 <b>s</b> qu	JARE II	EIVED
CYLINDE  CYLINDE  CYLINDE  CYLINDE  CYLINDE  Cylinder NoI  Date Made  Date Made  Age at Test, days  Maximum Load, lbs  Specified Strength, psi  Specified Strength, psi  Specified Strength, psi  Air Content, %  Weight of Cylinder, lbs Failure  Cured  Temperature, Concrete Temperature, Air  Time of Field Test  CEMENT:  Type and Brand  Water—Cement Ratio .  AGGREGATES:	Wall  4-A 7-7-80 7-9-80 7-14-80 7 1,750 2560 3,000 psi 8 28.2 Normal Lab	8-4-80 28 92,500 3310 @ 28 days	8-4- 28 94,5 3380	AN AF -C 80	REA OF2		REC	EIVED
CYLINDE  CYLINDE  CYLINDE  Cylinder NoII. Date Made Date Made Date Received in Lab. Date Tested Age at Test, days Maximum Load, lbs. Strength, psi Specified Strength, psi Slump, Inches Air Content, % Weight of Cylinder, lbs Failure Cured Temperature, Concrete Temperature, Air Time of Field Test  CEMENT: Type and Brand Water—Cement Ratio . AGGREGATES:	4-A 7-7-80 7-9-80 7-14-80 7 71,750 2560 3,000 psi	8-4-80 28 92,500 3310 @ 28 days	8-4- 28 94,5 3380	AN AF -C 80	REA OF2		REC	EIVED
CYLINDE  Cylinder NoI  Date Made  Date Received in Lab  Date Tested  Age at Test, days  Maximum Load, lbs  Strength, psi  Specified Strength, psi  Slump, Inches  Air Content, %  Weight of Cylinder, lbs  Failure  Cured  Temperature, Concrete  Temperature, Air  Time of Field Test  CEMENT:  Type and Brand  Water—Cement Ratio  AGGREGATES:	4-A 7-7-80 7-9-80 7-14-80 7 71,750 2560 3,000 psi	8-4-80 28 92,500 3310 @ 28 days	8-4- 28 94,5 3380	AN AF -C 80	REA OF2		REC	EIVED
Cylinder NoII. Date Made Date Received in Lab. Date Tested Age at Test, days Maximum Load, lbs. Strength, psi. Specified Strength, psi Slump, Inches Air Content, % Weight of Cylinder, lbs Failure Cured Temperature, Concrete Temperature, Air Time of Field Test  CEMENT: Type and Brand Water—Cement Ratio . AGGREGATES:	4-A 7-7-80 7-9-80 7-14-80 7 71,750 2560 3,000 psi ss. 28,2 Normal Lab	8-4-80 28 92,500 3310 @ 28 days	8-4- 28 94,5 3380	-C 80 00	REA OF2		REC	EIVED
Date Made Date Received in Lab Date Tested Age at Test, days Maximum Load, lbs. Strength, psi Specified Strength, psi Slump, Inches Air Content, % Weight of Cylinder, lbs Failure Cured Temperature, Concrete Temperature, Air Time of Field Test  CEMENT: Type and Brand Water—Cement Ratio AGGREGATES:	7-7-80 7-9-80 7-14-80 7 71,750 2560 3,000 psi	8-4-80 28 92,500 3310 @ 28 days	8-4- 28 94,5 3380	80			REC AUG MEL	-8 1980 LANZER
Date Received in Lab. Date Tested Age at Test, days Maximum Load, lbs. Strength, psi Specified Strength, psi Slump, Inches Air Content, % Weight of Cylinder, lbs Failure Cured Temperature, Concrete Temperature, Air Time of Field Test  CEMENT: Type and Brand Water—Cement Ratio AGGREGATES:	7-9-80 7-14-80 7 71,750 2560 3,000 psi s. 28.2 Normal Lab	28 92,500 3310 @ 28 days	28 94,5 3380	00			REC AUG MEL	8 1980 LANZER
Date Tested	7-14-80 7 71,750 2560 3,000 psi s. 28.2 Normal Lab	28 92,500 3310 @ 28 days	28 94,5 3380	00			AUG MEL	8 1980 LANZER
Age at Test, days Maximum Load, lbs. Strength, psi Specified Strength, psi Slump, Inches Air Content, % Weight of Cylinder, lbs Failure Cured Temperature, Concrete Temperature, Air Time of Field Test  CEMENT: Type and Brand Water—Cement Ratio . AGGREGATES:	7 71,750 2560 3,000 psi ss. 28.2 Normal Lab	28 92,500 3310 @ 28 days	28 94,5 3380	00			AUG	_8 1980 LANZER
Maximum Load, lbs Strength, psi	71,750 2560 3,000 psi s. 28.2 Normal Lab	92,500 3310 @ 28 days	94,5 3380				MEL	LANZER
Strength, psi	2560 3,000 psi  s 28.2 Normal Lab	3310 @ 28 days	3380				WEL	LANZER
Specified Strength, psi Slump, Inches Air Content, % Weight of Cylinder, Ibs Failure Cured Temperature, Concrete Temperature, Air Time of Field Test  CEMENT: Type and Brand Water—Cement Ratio AGGREGATES:	3,000 psi 28.2 Normal Lab	@ 28 days					MEL	LANCE
Slump, Inches Air Content, % Weight of Cylinder, Ibs Failure Cured Temperature, Concrete Temperature, Air Time of Field Test  CEMENT: Type and Brand Water—Cement Ratio. AGGREGATES:	28.2 Normal		28.1				ME	
Air Content, %	28.2 Normal	28.1	28.1					
Weight of Cylinder, Ibs Failure	s 28.2 Normal Lab	28.1	28.1					
Failure	Normal Lab	28.1	28.1					
Cured	Lab				1			
Temperature, Concrete Temperature, Air Time of Field Test  CEMENT: Type and Brand Water—Cement Ratio . AGGREGATES:								
Temperature, Air Time of Field Test  CEMENT: Type and Brand Water—Cement Ratio . AGGREGATES:	e							
Time of Field Test  CEMENT: Type and Brand  Water—Cement Ratio .  AGGREGATES:								
CEMENT: Type and Brand Water—Cement Ratio . AGGREGATES:								
Type and Brand Water—Cement Ratio . AGGREGATES:	. 16							
Water—Cement Ratio . AGGREGATES:			T	CONCR	ETE:			
AGGREGATES:				Mix or C	Class	5 1/2	2 Bag	
					ze			
Size					ed By			
				Type of	Mixing			
Туре				Truck N	0			
Source	• • • • • • • • • • • • • • • • • • • •			Delivery	Ticket No			
A					rs Made By		nt	
ADMIXTURES:				Curing F	Field	•		
Distribution	REMARKS:	77.	40					
ient		Fine Agg				1360		
		Coarse Agg.		1 Stone	- 1760			
		Cement - 51						
		Water - 29	Gal.					
		6 oz. air						

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.

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

	anzer Compa			Client	's Order No	
Client's Address 2260	eon, Ohio	reet			t No33	
		rage - Napol	eon Ohio			
Contractor		rage napor	con, onto			
Location of Pour Floor						
CYLINDERS	ARE NOMIN	IAL 6" X 12'	WITH AN ARE	A OF 27	98 SQUARE	INCHE
Cylinder No IL	5-A	5-B	5-C			
Date Made	8-5-80					
Date Received in Lab	8-12-80				1	L
Date Tested	8-19-80	9-2-80	9-2-80			-0
Age at Test, days	7	28	28		RECT	WED
Maximum Load, ibs	91,000				RECT	-1
Strength, psi	3250	-			112	7 198
Specified Strength, psi	3,000 psi	@ 28 days			ALIG	2)
Slump, Inches		+			P(O-	JOFF
Air Content, %	27.0	<del>-</del>			AUG.	LANZ
Weight of Cylinder, lbs	27.9	<del> </del>			WED	
Failure		+				
Temperature, Concrete	75	<del> </del>	-	<del></del>		-
Temperature, Air	85				<del></del>	
Time of Field Test					-	
Unit Weight	136.0				1	+
CEMENT:			001100			
Type and Brand	Portland		CONCRET Mix or Close	<b>t::</b> \$	5 1/2 sack	s ner
Water-Cement Ratio	5.27 Gallo	ns per sack		• • • • • • • • • • • • •		o per
AGGREGATES:				 Зу		upply
Size	Max. #57			xing		
Туре						1:
Source			Delivery Tic	ket No		
A - A - A - A - A - A - A - A - A - A -	A/E 6 oz.	/	Cylinders M	ade By	Client	
ADMIXTURES:	A/E 0 02.	yu.	Curing Field	1		
Distribution	REMARKS:	Rep. by sar	aple 60 yards			
nt		. ,	, = or juices			

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2T11R (11-78)W

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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

ClientM	lel Lanzer Com	any		Client's	Order No	
Client's Address 2	260 N. Scott	Street			No. 332	92
N	apoleon, Ohio	43545			110	
ProjectN	apoleon City (	Garage - Napol	eon, Ohio			
Contractor						
Location of Pour E	loor					
CYLINE	DERS ARE NOM	INAL 6" X 12"	' WITH AN AI	REA OF 27.	98 SQUARE I	NCHES.
Cylinder No	L 5-A	5-B	5-C		REC SE	LAVE
Date Made					250	Jef V
Date Received in La					KE	105
Date Tested		9-2-80	9-2-80	<del> </del>		9-61
Age at Test, days	_	28	28	<b>†</b>	SE	7
Maximum Load, Ibs		103,000	104,000		+	INZY
Strength, psi		3680	3720	<del> </del>	ME	H Liv
Specified Strength,	20		77.20		103	+
Slump, Inches			-		<del> </del>	+
Air Content, %						+
Weight of Cylinder,		27.7	28.0			+
Failure			20.0	1	<del> </del>	+
Cured						1
Temperature, Concr	7.5					<del> </del>
Temperature, Air				1	·	+
Time of Field Test .						+
Unit Weight	136.0					
CEMENT:			CONCR	ETE:		
Type and Brand	Portland		Miv or (	Class	5 1/2 sacks	per cu
Water-Cement Rati	o 5.27 Gal	lons per sack		ze		
AGGREGATES:				ed By	0 1 1	ıpply
Size	Max. #57			Mixing		
Туре				0		
Source			1 5 0			
	1		Cylinder	rs Made By	Client	
ADMIXTURES:	A/E 6 o	z./yd.	Curing F	ield		
Distribution	REMARKS	S: Rep. by sa	ample 60 yard	s		
		-	-			
ent						

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ER REQUIRED: Type or write on o	original — impression will automatically appear on	
Message Reply	November 13, 1980  FILE NO.	PRIORITY  URGENT! Soon as poss No reply nee
1		
Co., Inc.	SUBJECT: City of Napoleon Mun	icipal Bldg.
and the building	must be completed and c	cleaned
	·	
this matter.		
	MEL LANZER COMPANY	7/-
	Lat.	gel
DATE OF REPLY:	SIGNED: 1	
	Message Reply  Co., Inc.  that the City Must and the building tion date, you withis matter.	Message Reply  ATTENTION:  SUBJECT: City of Napoleon Mun  that the City Municipal Garage is to be and the building must be completed and contion date, you will need to put more people this matter.  MEL LANZER COMPANY/ SIGNED:

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.

		DATE:	PRIORITY
MEL LANZER CO. 2266 North Scott Street NAPOLEON, OHIO 43545	Message	November 13, 1980	URGENT!
	Keping	ATTENTION:	NO REPLY REEDEL
(419) 592-2801			
Jim Speiser & Sons, Inc.		subject: City of Napoleon Mun:	icipal Dlda
PO Box 545		crey or Naporeon Mun.	cipal bidg.
Napoleon, OH 43545			
for occupancy November 30, ] up by that date.		is made be completed and	Creaned
In order to meet this o	*	vill need to put more peo	
In order to meet this of the job.  I hope you will coopera	completion date you w	MEL LANZER COMPANY	
In order to meet this o	completion date you wate in this matter.	MEL LANZER COMPANY SIGNED:	
In order to meet this of the job.  I hope you will coopera	completion date you w	MEL LANZER COMPANY	
In order to meet this of the job.  I hope you will coopera	completion date you wate in this matter.	MEL LANZER COMPANY SIGNED:	
In order to meet this of the job.  I hope you will coopera	completion date you wate in this matter.	MEL LANZER COMPANY SIGNED:	
In order to meet this of the job.  I hope you will coopera	completion date you wate in this matter.	MEL LANZER COMPANY SIGNED:	
In order to meet this of the job.  I hope you will coopera	completion date you wate in this matter.	MEL LANZER COMPANY SIGNED:	

SENDER: DETACH AND FILE FOR FOLLOW-UP.

# CITY OF NAPOLEON, OHIO DIVISION OF INITIALS INSPECTIONS

Date Jake 80 12 Mics State 17	TESP			Framing	EFP1 umbing	lisc.		Final	y if mille	
of Mr.co. S	Inspection Seamed Page Name	Address	Permit No.	Excavation	Footing Drains Ext. Storm	Ext. Sanitary Int. Storm	Int. Sanitary	Foundation Final	3 cylinla Take	of run



# GRINNELL FIRE PROTECTION SYSTEMS COMPANY, INC.

Executive Offices - Providence, RI

I CONTRACT FOR AUTOMATIC SPRIN II CONTRACT FOR TESTING OF FIRE AI	
III COMBINED CONTRACT FOR THE AB	
AGREEMENT made this	and City of Napolean
located at .355 Riverview , Na pokon , Ohio hereinafter called the SUBSCRIBER, for the above indicated contra	1354 <i>5</i>
WITNESSETH, that: Subscriber owns and/or occupies premises located at	Industrial Dr. tate of Oh.ID. , wherein
Subscriber owns and/or occupies premises located at	and detection equipment, to wit: One a) with pipe.  Language Control Calves,  Led Leganipment.
Scope of Work  Contractor shall inspect and/or test the equipment described her Contractor's then current Report Form. All in accordance with the ter	ein in accordance with the contract option selected above and the ms and conditions contained herein and on the reverse side hereof.
Number of Inspections	
The Contractor shall inspect and/or test said installation	times per year at regular intervals.
Cost of Inspection and Payment	
The Subscriber shall pay to Contractor within 10 days after the find and the find the Subscriber fails to pay the full amount due, Contractor, may obligated to perform any additional work until payment of the amount due.	at its option, terminate this contract, and, in any event, will not be
Report of Inspection	·
Notice of this agreement and copies of all Reports of Inspection	and/or test will be forwarded by the Contractor to . Lloss
Notice of termination or change in number of inspections per year	the insurance authority having jurisdiction and to the Subscriber.
Limitation of Liability	,
The Contractor makes NO WARRANTIES, EXPRESS, OR IMP MERCHANTABILITY AND WARRANTIES OF FITNESS FOR A affirmation of fact made by any employee, agent or representative or to any liability or obligation.	f the Contractor shall constitute a warranty by the Seller or give rise
Contractor's liability to Subscriber for personal injury, death, or p be limited to the contract price. Subscriber shall hold Contractor ha or property damage, arising from Subscriber's failure to maintain t upon contract, warranty, tort, strict liability or otherwise. In no even consequential or liquidated, penal or any economic loss damage Subscriber's property, lost profits or lost production, whether claims or actions for such damages are based upon contract, warranty.	hese systems or keep them in operative condition, whether based at shall the Contractor be liable for any special, indirect, incidental, so of any character, including but not limited to loss of use of the steel by the Subscriber or by any third party, irrespective of whether
	ACCEPTED BY:
GRINNELL FIRE PROTECTION SYSTEMS COMPANY, INC.	SUBSCRIBER City of Mapoleon
BY Parlene B. Was	BY Kechand & Hayman
TITLE Inspector	TITLE Beulding Commissioner
ADDRESS 20823 Histop	DATE SIGNED Jan 10 1984
NOVI MI	WITNESS
FORM #4553 (6/82 Rev.)	

531-0109 666-0052 882-1753 H



# GRINNELL HYDRAULIC DESIGN INFORMATION SHEET

(	CONTR CALCU CONST	RACTO JLATEI TRUCT PANCY	OR Gringe // Fir.	Augie IBLE MON	Systems	SYSTEM NO CONTRACT NO DRAWING NO CEILING HEIGH	65-3360300 AB	
SYSTEM DESIGN		NFPA. NFPA OTHE	13: LT. HAZ	1				
	ARE. DEN ARE. HOS HOS RAC	DENSITY  AREA PER SPRINKLER  HOSE ALLOWANCE GPM: INSIDE 250  MAKE Grinnell					5,56	
c s	ALCUL	ATION RY	GPM REQUIRED 102 "C" FACTOR USED: OV	PSI REQUI	RED <u>54,2</u>	At city Conn (Specify Location	ection	
R SUP	WATER FLOW TEST  DATE & TIME Oct 30 ,1979  STATIC PSI 65  RESIDUAL PSI 54  GPM FLOWING 1371  ELEVATION 0			PUMP DE RATED CAPACITY AT PSI ELEVATION	14	TANK OR RESE CAPACITY ELEVATION WELL PROOF FLOW		
		OCATION See Drawing SOURCE OF INFORMATION City of Mapoleon Water Dept CITY OF NAPULFON BUILDING DETI						
	STOF	RAGE	YHEIGHT METHOD: SOLID PILED	AREA_	ALLETIZED	LOCATION  AISLE WIDTH  RACK  RACK	Plan Approval—3 %	
	X;	SINGLE ROW CONVENTIONAL PALLET AUTOMATICS DOUBLE ROW SLAVE PALLET SOLID SHELVI MULTIPLE ROW OPEN					CAPSULATED CAPSULATED	
COMM	FLUE SPACING IN II  LONGITUDINALTRAN  HORIZONTAL BARRIERS PROVID			I INCHES ANSVERSE	1 = =	E FROM TOP OF STORAGE		
				/IDED				