

# PERMIT

## CITY OF NAPOLEON - BUILDING DEPARTMENT

255 West Riverview Avenue, Napoleon, Ohio 43545 - 419-592-4010

915 Issued 2-13-89

Mike Hirc  
045 Chesterfield  
address

Lot in Oaks First Addition  
sub-div or legal discript

Issued on Huber  
building official

Owner Builders & Supply 782-7756  
name tel.

Address Defiance

Agent G Kahle 782-7756  
eng.-etc. tel.

Address 4 Defiance

Description Residence

Residential no. dwelling units

Commercial Industrial

New X Alter Remodel

Mixed Occur

Change of Occy

Estimated Cost \$ 90,000.00

	FEES	BASE	PLUS	TOTAL
<input checked="" type="checkbox"/>	BUILDING	9.00	208.00	217.00
<input checked="" type="checkbox"/>	ELECTRICAL	15.00	42.00	57.00
<input checked="" type="checkbox"/>	PLUMBING	9.00	36.00	45.00
<input checked="" type="checkbox"/>	MECHANICAL	18.00	10.00	28.00
<input type="checkbox"/>	DEMOLITION			
<input type="checkbox"/>	ZONING	5.00	.00	5.00
<input checked="" type="checkbox"/>	SIGN			
<input type="checkbox"/>	WATER TAP	375.00	.00	375.00
	SEW. INSP.			
	SEWER TAP	60.00		272.00 60.00
	TEMP. WATER	5.00		5.00
	TEMP. ELECT.	10.00		10.00
	ADDITIONAL PLAN REVIEW	Struct. _____ hrs	Elect. _____ hrs	
	TOTAL FEES.....			1074.00
	LESS MIN. FEES PAID _____ date			
	BALANCE DUE.....			

### ZONING INFORMATION

district	lot dimensions	area	front yd	side yds	rear yd
S	150 X 150	22,500	40	41'-L 41'-R	62
max hgt	no pkg spaces	no ldg spaces	max cover	petition or appeal req'd	date appr
35'	2 min		30%	None	

### WORK INFORMATION:

Garage Fl. Area 506

Size: Length 68' Width 54' Stories 1 Ground Floor Area 2148

Height 18' Building Volume (for demo. permit) \_\_\_\_\_ cu. ft.

Electrical: 200 AMP Underground service & 14 new circuits  
brief description

Plumbing: 2 1/2 bath, kitchen, and laundry  
brief description

Mechanical: BTU Forced air furnace and 14 hot air runs + AIR CONDITIONING  
brief description

Sign: \_\_\_\_\_ Dimensions \_\_\_\_\_ Sign Area \_\_\_\_\_

Additional Information: New Home

**PAID**

Signature \_\_\_\_\_

*Robert D. Kahle*  
owner-agent

APR 09 1990

Director

Green-Clerk-Treasurer

**CITY OF NAPOLEON**  
Caldwell County Auditor

# INSPECTION RECORD

UNDERGROUND			ROUGH-IN							
Type	Date	By	Type	Date	By	Type	Date	By	Notes	
PLUMBING	Building Drains		Drainage, Waste & Vent Piping	7/26	BD	Indirect Waste			Drain & Vent	
	Water Piping								Backf Preve	
	Building Sewer		Water Piping	7/26	BD	Condensate Lines			Water Heate	
	Sewer Connection								FINAL APPR	
									7/30 BD	
MECHANICAL	Refrigerant Piping		Refrigerant Piping			Chimney(s)			Greast System	
			Duct Furnace(s)			Fire Dampers			Air C Unit(s)	
	Ducts/Plenums		Ducts/Plenums	7/26	BD	<input type="checkbox"/> Radiant Htr(s) <input type="checkbox"/> Unit Htr(s)			Refrig Equip	
			Duct Insulation			Pool Heater			Furna	
			Combustion Products Vents			Ventilation <input type="checkbox"/> Supply <input type="checkbox"/> Exhst.	7/26	BD	FINAL APPF	
ELECTRICAL	Conduits & or Cable	7/18	BD	Conduits/Cable	7/18	BD	<input checked="" type="checkbox"/> Range <input checked="" type="checkbox"/> Dryer	7/26	BD	Tempe Temp <sup>19</sup>
	Grounding & or Bonding	7/18	BD	Rough Wiring	7/18	BD	<input type="checkbox"/> Generator(s) <input type="checkbox"/> Motors			Fixtur Lamps
	Floor Ducts Raceways			Service Panel Switchboard			<input checked="" type="checkbox"/> Water Htr <input type="checkbox"/> Welder	7/26	BD	Signs
	Service Conduit			Busways Ducts			<input type="checkbox"/> Heaters <input type="checkbox"/> Heat Cable			Electric m... Clearance
	Temporary Power Pole			Subpanels			<input type="checkbox"/> Duct Htr(s) <input type="checkbox"/> Furnace(s)			FINAL APPROVAL
BUILDING	Location, Set-backs, Esmt(s)	5/11	5/22	Exterior Wall Construction	7/13	BD	Roof Covering Roof Drainage	7/26	BD	Smoke Detector
	Excavation			Header const.	7/13	BD	Exterior Lath	7/26	BD	Demolition (sewer cap)
	Footings & Reinforcing		E1				<input type="checkbox"/> Interior Lath <input type="checkbox"/> Wallboard			
	Floor Slab			Interior Wall Construction	7/13	BD	Fire Wall(s)			Building or Structure
	Foundation Walls		E1	Columns & Supports			Fireplace Chimney			
	Sub-soil Drain			Crawl Space <input type="checkbox"/> Vent <input type="checkbox"/> Access			Attic <input type="checkbox"/> Vent <input type="checkbox"/> Access	7/26	BD	
	Piles			Floor System(s)	7/13	BD				FINAL APPROVAL BLDG. DEPT.
			Roof System			Special Insp Reports Rec'd			Certificate of Occupancy Issued 10/30 BD	
ADDITIONAL	INSPECTIONS, CORRECTIONS, ETC.					INSPECTIONS, CORRECTIONS, ETC.				
	sendout Bulletin celulose					Suction Line insul				
	3 1/2" size entrance conduit					Drainline connection				
	not good					not good				

CITY OF HONOLULU

WATER TAPPING PERMIT

issued by

The Napoleon Water Distribution Department

255 West Riverview Ave. Napoleon, Ohio 43545 Ph. 592-4010

Entry No. \_\_\_\_\_

Permit No. 01915 Issued 2-13-90 Received of Kahle Builders (\$ 375 ).00

(Charge for tapping permit to supply water service to) Lot No. 23 Sub Div. Twin Oaks 1st Add

Street No. 1045 Chesterfield Tap Size 1 " Cost \$ 375 .00 Plumber Kahle Builders

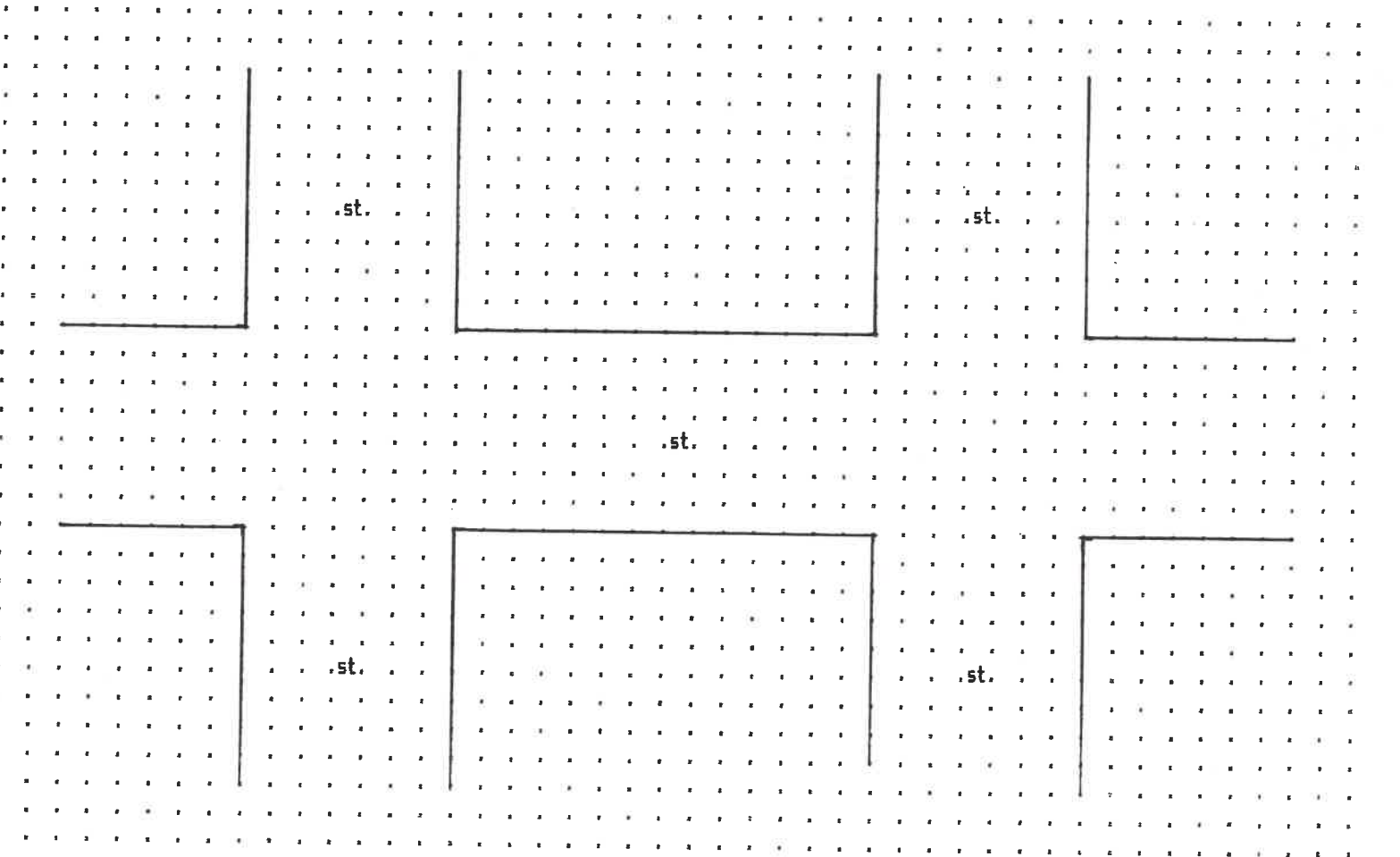
Date completed \_\_\_\_\_ Approved by \_\_\_\_\_  
water distribution dept. finance director

Name \_\_\_\_\_ Size of tap \_\_\_\_\_ Date \_\_\_\_\_ Street and No. \_\_\_\_\_

Old Tap No. \_\_\_\_\_ New Tap No. \_\_\_\_\_ Size and Kind of Main \_\_\_\_\_

Location of Main \_\_\_\_\_ Depth of Main \_\_\_\_\_

Distance from Hydrant/Valve \_\_\_\_\_ Distance to Curb Stop from Corp. \_\_\_\_\_





METER SOCKET RELEASE

issued by

The Napoleon Electric Distribution Department

639 Industrial Drive Napoleon, Ohio 43545 Pn. 592-9116 or 592-4010

Entry No. \_\_\_\_\_

Permit No. 01915 Issued 2-13-90 Building permit No. 01915 Job Address \_\_\_\_\_

Lot Number 23 Sub Division Twin Oaks 1st Add.

Owner Kahle Builders Owners Address RR # 4 Defiance Pn. No. 782-7756

Contractor Same Contractors Address Same Pn. No. \_\_\_\_\_

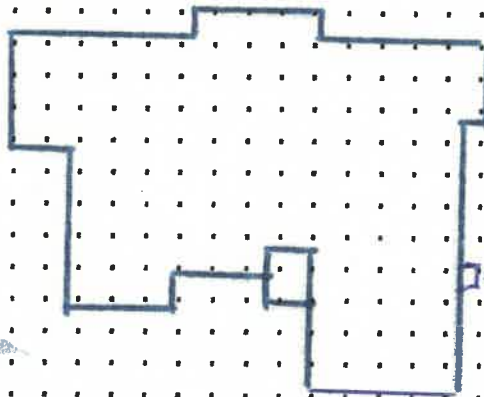
Size of Service 200Amp Overhead \_\_\_\_\_ Underground X Issued By Roger O Freytag

Date completed \_\_\_\_\_ Approved by \_\_\_\_\_

Size of Service \_\_\_\_\_ Overhead \_\_\_\_\_ Underground \_\_\_\_\_ Street and No. \_\_\_\_\_ electric distribution dept.

Old Meter No. \_\_\_\_\_ New Meter No. \_\_\_\_\_ Remarks \_\_\_\_\_

Sketch of Service



Electric Meter



APPLICATION  
for  
RESIDENTIAL BUILDING, ELECTRICAL, PLUMBING, MECHANICAL, PERMITS and DEMOLITION PERMIT  
from the  
CITY OF NAPOLEON - BUILDING DEPARTMENT

Entry No. \_\_\_\_\_ 255 West Riverview Ave. Napoleon, Ohio 43545 Pn. 419-592-4010

Permit No. 01915 Issued 2-13-90

Job Location 1045 Chesterfield

Lot 23 Twin Oaks FIRST ADD  
sub-div. or legal disc.

Issued By F 59  
building official

Owner Kable Builders - Supply Co Pn 782-7756

Address RR #4 Detmire, O, 43572

Agent Richard L. Kable Pn 782-7756

Address RR #4 Detmire, O

Description of Use New Home RESIDENCE

Residential 1  
no. dwelling units

Commercial \_\_\_\_\_ Industrial \_\_\_\_\_

New  Add'n. \_\_\_\_\_ Alter \_\_\_\_\_ Remodel \_\_\_\_\_

Mixed Occupancy \_\_\_\_\_

Change of Occupancy \_\_\_\_\_

Estimated Cost \$ 90,000

Ch. Permits Reg.	Base	Fees Plus	Total
<input checked="" type="checkbox"/> Building	<u>9.00</u>	<u>208.00</u>	<u>217.00</u>
<input checked="" type="checkbox"/> Electrical	<u>15.00</u>	<u>42.00</u>	<u>57.00</u>
<input checked="" type="checkbox"/> Plumbing	<u>9.00</u>	<u>36.00</u>	<u>45.00</u>
<input checked="" type="checkbox"/> Mechanical	<u>18.00</u>	<u>10.00</u>	<u>28.00</u>
Demolition			
<input checked="" type="checkbox"/> Zoning	<u>5.00</u>	<u>.00</u>	<u>5.00</u>
Sign			
<input checked="" type="checkbox"/> Water tap	<u>375.00</u>	<u>1.00</u>	<u>375.00</u>
<input checked="" type="checkbox"/> Sewer Tap	<u>60.00</u>	<u>1.00</u>	<u>60.00</u>
<input checked="" type="checkbox"/> Temp. Water	<u>5.00</u>	<u>1.00</u>	<u>5.00</u>
<input checked="" type="checkbox"/> Temp. Elec.	<u>10.00</u>	<u>1.00</u>	<u>10.00</u>
Additional struc.	_____ hrs		
plan review	_____ hrs		
Total Fees.....			<u>1074.00</u>
Less Min. Fees Pd.			
Balance Due.....			

**-ZONING INFORMATION**

district	lot dimensions	area	front yd	side yds,	rear yd
<u>5</u>	<u>150 X 150</u>	<u>22,500</u>	<u>40</u>	<u>41'-L 41'-R</u>	<u>62</u>
max hgt	no pkg spaces	no ldg spaces	max cover	petition or appeal req'd.	date appr
<u>35</u>	<u>2 MIN</u>		<u>30%</u>	<u>NO AIR</u>	

**WORK INFORMATION:**

BUILDING: Garage Fl. Area 506 sq Basement Fl. Area No Second Floor Area No

Size: Length 68' Width 54' Stories 1 Ground Floor Area 2198

Height 18' Building Volume (for demo. permit) \_\_\_\_\_ cu. ft.

Description of Work: New Home

ELECTRICAL: Electrical Contractor Gustawiller Electric Pn. \_\_\_\_\_  
 Address Spruce Street Detmold, O Estimated Cost \$ 3500,  
 Type of work: New  Service change \_\_\_\_\_ Rewiring \_\_\_\_\_ Additional Wiring \_\_\_\_\_ Temp. Elec. Req.   
 Size of service 200 Underground  Overhead \_\_\_\_\_ No. of new circuits 14  
 Description of work: ~~2 1/2 BATH KITCHEN & LAUNDRY~~  
200 AMP UNDERGROUND SERVICE + 14 CIRCUITS

PLUMBING: Plumbing Contractor Kohle Builders & Supply Pn. 782-7756  
 Address RR #1 Detmold, O Estimated Cost \$ \_\_\_\_\_  
 Water Tap Req.  Size 1 Type of Pipe CPVC Water Dist. Pipe \_\_\_\_\_ type  
 San. Sewer Tap Req.  Size 4 Type of Pipe SDR 35 Dr. Waste Vt. Pipe \_\_\_\_\_ type  
 St. Sewer Tap Req.  Size 4 Type of Pipe AOS Street to be Opened \_\_\_\_\_ yes no  
 Main Building Drain Size 4 Main Vent Pipe Size 4 List Number of Plumbing Fixtures Below  
 Water Closets 3 Bathtubs 2 Showers 0 Lavatories 3 Kitchen Sinks 1 Disposal 1 Dishwasher 1 Clothes Washer 1  
 Floor Drains 0 Other Fixtures: Type \_\_\_\_\_ No. \_\_\_\_\_  
 Description of Work: 2 1/2 BATH KITCHEN & LAUNDRY

MECHANICAL: Mechanical Contractor Mayer Heating Pn. \_\_\_\_\_  
 Address 5th Street Detmold, Ohio Estimated Cost 6500.00  
 Heating System: Forced Air  Gravity \_\_\_\_\_ Hot Water \_\_\_\_\_ Steam \_\_\_\_\_ Unit Heaters \_\_\_\_\_ Radiant \_\_\_\_\_ Baseboard \_\_\_\_\_  
 Type of Fuel: Electric \_\_\_\_\_ Natural Gas  Propane \_\_\_\_\_ Wood \_\_\_\_\_ Coal \_\_\_\_\_ Solar \_\_\_\_\_ Geothermal \_\_\_\_\_ Other \_\_\_\_\_  
 No. of Heat Zones \_\_\_\_\_ Hot Water: (One Pipe \_\_\_\_\_ Two Pipe \_\_\_\_\_ Series Loop \_\_\_\_\_) Electric Heat: (No of Circuits \_\_\_\_\_) No. of Furnaces \_\_\_\_\_  
 No. of Hot Air Runs 14 No. of Hot Water Radiators \_\_\_\_\_ Total Heat Loss  Rated Capacity of Furnace/Boiler   
 Location of Heating Units: Crawl Space \_\_\_\_\_ Floor Level  Attic \_\_\_\_\_ Suspended \_\_\_\_\_ Roof \_\_\_\_\_ Outside \_\_\_\_\_ Other \_\_\_\_\_  
 Description of Work: D.T.U., FORCED AIR FURNACE + 14 HOT AIR RUNS

DRAWINGS REQUIRED: All Applications must be Accompanied by Two Complete sets of Drawings Including SITE PLAN, FOUNDATION PLAN, FLOOR PLANS, STRUCTURAL FRAMING PLANS, EXTERIOR ELEVATIONS, SECTIONS and DETAILS, STAIR DETAILS, ELECTRICAL LAYOUT, PLUMBING ISOMETRIC, HEATING LAYOUT ETC. All plans shall be DRAWN TO SCALE. Show all existing structures on the site plan also, show Electric Panel and Furnace Locations.

READ AND SIGN BELOW; The undersigned hereby makes application for a permit for all work described herein, and agrees to complete the work in strict accordance with all applicable provisions of the current edition of the C.A.B.O. Building Code, the Napoleon Building and Zoning Codes, the Napoleon Engineering Dept. Rules and Regulations, Standard Specifications and other Pertinent Sections of the Napoleon Code of Ordinances.  
 Date 2-13-90 Signature of Applicant Paul D. Kohle  
 Application not valid without signature



WATER TAPPING PERMIT

issued by

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255 West Riverview Ave. Napoleon, Ohio 43545 Ph. 592-4010

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Street No. 1045 Chesterfield Tap Size 1 " Cost \$ 375 .00 Plumber Kahle Builders

Date completed \_\_\_\_\_ Approved by \_\_\_\_\_  
water distribution dept. finance director

Name \_\_\_\_\_ Size of tap \_\_\_\_\_ Date \_\_\_\_\_ Street and No. \_\_\_\_\_

Old Tap No. \_\_\_\_\_ New Tap No. \_\_\_\_\_ Size and Kind of Main \_\_\_\_\_

Location of Main \_\_\_\_\_ Depth of Main \_\_\_\_\_

Distance from Hydrant/Valve \_\_\_\_\_ Distance to Curb Stop from Corp. \_\_\_\_\_

	.st.		.st.
	.st.		.st.



No. .... 334 .....

CERTIFICATE OF OCCUPANCY  
THE CITY OF NAPOLEON

ENGINEERING DEPARTMENT  
DIVISION OF INSPECTION

This is to certify that the Building or Land as herein described complies with all the building and health laws and ordinances and with the provisions of the Zoning Ordinance.

Location of Occupancy *1045 Chatfield* ..... Occupancy *Single Family*

Owner of Property *Michael & Rose* ..... Address *1045 Chatfield*

Issued to *James* ..... Address .....

Zoning *Residential Suburban* ..... Bldg. Permit No. *01915*

Substantial qualifications of occupancy *Final inspection complete and*

*approved*

This certificate is issued by the City Building Inspector, as provided by law, and is to certify that construction is completed substantially in conformity with the approved plans and permission is hereby granted to occupy such building in compliance with such legal use and occupancy as authorized under the provisions of the ordinances of the City of Napoleon.

Issued this *seventh* day of *October* 19*91*

This is a valuable record for owner or lessee and should be so preserved.

Signed *Benjamin*  
City Building Inspector



7 F3-19F  
 11-16  
 11-16

MEMBER	FR-TO	FORCE (LBS)	C H O R D S FOR DISP FT-IN-SX	SLOPE/12 DEPTH IN	LOAD	MAXIMUM UNBRAC. LENGTH	W E B S MEMBR FR-TO	FORCE (LBS)	CHORDS	SIZE	LUMBER	DESCRIPTION	DESIGN CRITERIA
1	H101	3052C	5-10-14	4.000	70.0	0.0	2-7	383C	1-3	2X 4	NO.2 KD15 SO. PINE	TOP CH. LL= 25 PSF	
2	IN11	2788C	5-1-2	4.000	70.0	0.0	3-7	966T	3-5	2X 4	NO.2 KD15 SO. PINE	DL= 10 PSF	
3	PK12	2788C	5-1-2	4.000	70.0	0.0	3-6	966T	5-1	2X 4	NO.1 D.KD15 SO.PINE	BOT CH. LL= 20 PSF	
4	IN11	3052C	5-10-14	4.000	70.0	0.0	4-6	383C	ALL WEBS	2X 4	NO.3 S.P.F.	DL= 10 PSF	
5	H101	2895T	7-7-4	0.000	60.0	10.0						TOTAL LOAD= 65 PSF	
6	IN02	1989T	6-9-8	0.000	60.0	10.0						SPACING= 24 IN. C/C	
7	IN02	2895T	7-7-4	0.000	60.0	10.0						INPUT DEFL. L/360	

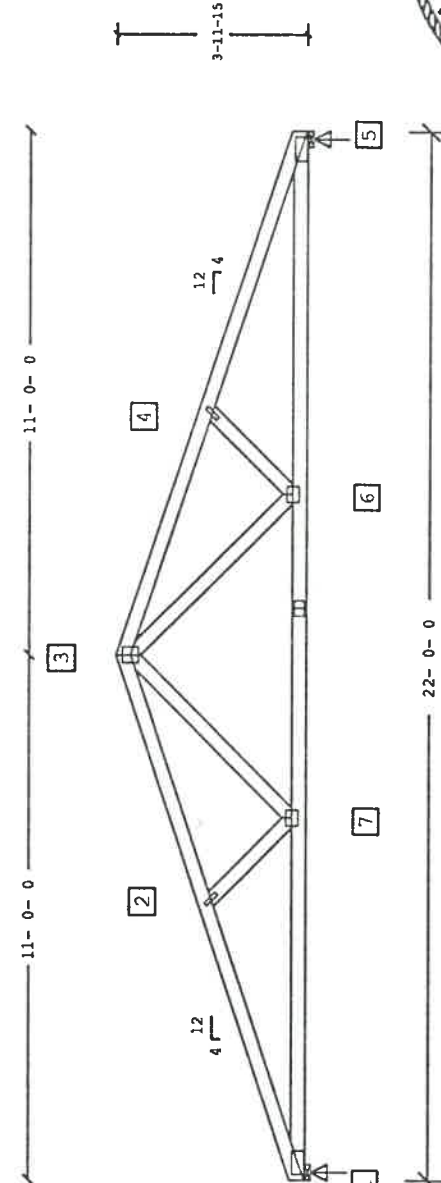
THIS TRUSS IS DESIGNED TO SUPPORT VERTICAL LOADS AS DETERMINED BY OTHERS AND SHOWN ON INPUT LISTING. VERIFICATION OF LOADING, DEFLECTION LIMITATIONS, FRAMING METHODS, WIND BRACING OR OTHER LATERAL BRACING THAT IS ALWAYS REQUIRED, IS THE RESPONSIBILITY OF THE PROJECT ARCHITECT OR ENGINEER.

MAX. PURLIN SPACE= 0.0 FT. - MAX. UNBRACED BOT.CH. LEN.= 10.0 FT.  
 \*\*\* PLYWOOD SHEATHING REQUIRED ON TOP CHORD \*\*\*

NOTE: LATERAL BRACES AND PURLINS INDICATED FOR TRUSS MEMBERS ARE REQUIRED TO REDUCE BUCKLING LENGTH OF MEMBER, AND SHOULD BE NAILED TO TRUSS MEMBERS WITH MINIMUM OF 2-10D COMMON WIRE NAILS. PROVISIONS MUST BE MADE AT ENDS OR SPECIFIED INTERVALS TO RESTRAIN OR ANCHOR LATERAL BRACING. BY OTHERS.

DESIGN SPECS. FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES, TFI, 1985

NAIL VALUES (PST) GROSS CHORDS WEBS  
 MAX MIN MAX MIN  
 GNO20 228 180 190 140



GROSS	BRG
JT REACT	IN-SX
1	1430 4-0
5	1430 4-0

CAMBER= 0-1/8 HESL = 4/16



Handling & Erection	Miscellaneous Information	Bracing Information	Connector Hardware	Lumber
Careless handling of components shall not be permitted. Temporary and permanent bracing for building component shall be designed and installed by collector. No load shall be applied to any component until all bracing and fastenings are complete. All items shall be checked for design loads to be applied to the component. Care must be exercised to install component at proper bearing points, right side up, and properly braced. Read all instructions for the component. No responsibility for the fabrication, handling, shipment and installation of components shall be assumed by the manufacturer.	This data sheet and the information hereon is the property of Gang Nail Systems, Inc. and is not to be copied in whole or in part or used for unauthorized reproduction of the terms disclosed herein or in any other way without the written consent of Gang Nail Systems, Inc. The use of this component shall be specified by the designer of the complete structure. Gang Nail Systems, Inc. is not responsible for the design of the complete structure. Gang Nail Systems, Inc. is not responsible for the design of the complete structure. Gang Nail Systems, Inc. is not responsible for the design of the complete structure.	All lateral bracing specified is for bracing individual web members and must be installed. All bracing must be equally spaced along web length. Chord members are assumed to be braced. Lateral bracing must be installed in accordance with the design of the complete structure. Additional bracing for stability of the structure shall be provided by the designer of the complete structure.	Connector plates are manufactured in accordance with TPI. Plates must be installed on both faces of the member. Plates must be of the size, shape and capacity shown. All nuts and bolts must be of the size, shape and capacity shown. All nuts and bolts must be of the size, shape and capacity shown.	Lumber must bear a grade mark from an approved inspection bureau and must be of the grade specified. Lumber must be of the grade specified. Lumber must be of the grade specified.

IMPORTANT: READ ALL NOTES ON THIS DRAWING!



11  
MAR 8,1990 F3-19F

WARNING- VERIFY YOUR INPUT TO AVOID DESIGN AND FABRICATION MISTAKES.  
YOU ARE SOLELY RESPONSIBLE FOR ERRORS RESULTING FROM WRONG INPUT

REQUEST NO. CALCONLY QUOTE WOLOHAN DEFIANCE (546629) TGT

GANG NAIL SYSTEMS INC. COPYRIGHT 1988.  
ALL RIGHTS RESERVED. AUTOTRUSS

13 7  
REQUEST NO. CALCONLY QUOTE WOLOHAN DEFIANCE (546629) TGT T-1  
MAR 8,1990 F3-19F

SPAN (OUT TO OUT) 22.000  
NO. OF JOINTS 7  
LOC. OF REACTIONS 1 5  
SHORT TERM INCREASE TCH 1.15 BCH 1.15 WEBS 1.15 PLATES 1.15

TOP CHORD LOAD SHARE = 15 BOTTOM CHORD LOAD SHARE = 15

\*\*\*PLYWOOD SHEATHING USED ON TOP CHORD WHERE APPLICABLE.\*\*\*

JT	HOR.DISP. FT	VER.DISP. SLOPE/12	VERTICAL UNIF.LD.	PLF
1	5.9062	4.0000	-70.00	
2	5.0938	4.0000	-70.00	
3	5.0938	-4.0000	-70.00	
4	5.9063	-4.0000	-70.00	
5	-7.6042	0.0000	-60.00	
6	-6.7917	0.0000	-60.00	
7	-7.6042	0.0000	-60.00	

TOTAL POSITIVE DISPLACEMENT= 22.00

NO. OF WEBS= 4  
2- 7 3- 7 3- 6 4- 6

GROSS REACTIONS(LBS):  
RV- 1= 1430.0 RV- 5= 1430.0  
RH- 1= 0.0

MEM	FORCE LBS	WID IN.	DEP IN.	FB PSI	Q	P/AF	VM/ZF	HM/ZF	CSI	LAT. BRC
TOP CHORD MEMBERS										
1- 2	-3052.	1.50	3.50	2013	1323	0.90	0.44	0.36	0.00	0.80
2- 3	-2788.	1.50	3.50	2013	1323	0.90	0.40	0.36	0.00	0.76
3- 4	-2788.	1.50	3.50	2013	1323	0.90	0.40	0.36	0.00	0.76
4- 5	-3052.	1.50	3.50	2013	1323	0.90	0.44	0.36	0.00	0.80
BOT CHORD MEMBERS										
5- 6	2895.	1.50	3.50	2818	1438	1.00	0.38	0.52	0.00	0.90
6- 7	1989.	1.50	3.50	2818	1438	1.00	0.26	0.52	0.00	0.78
7- 1	2895.	1.50	3.50	2818	1438	1.00	0.38	0.52	0.00	0.90
WEB MEMBERS										
2- 7	-383.	1.50	3.50	633	479	0.00	0.15	0.00	0.00	0.15
3- 7	966.	1.50	3.50	633	374	0.00	0.49	0.00	0.00	0.49
										5.0

3- 6	966.	1.50	3.50	633	374	0.00	0.49	0.00	0.00	0.49
4- 6	-383.	1.50	3.50	633	479	0.00	0.15	0.00	0.00	0.15
										2.6

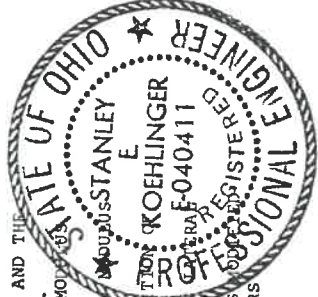
DEFLECTION AT 7 = -0.2705 INCHES  
DEFLECTION BETWEEN 6- 7 = -0.4284 INCHES

EXPLANATIONS:

P/AF = AXIAL FORCE DIVIDED BY THE CROSS-SECTIONAL AREA AND THE ALLOWABLE UNIT STRESS IN TENSION OR COMPRESSION.  
VM/ZF= VERTICAL BENDING MOMENT DIVIDED BY THE SECTION MODULUS AND THE ALLOWABLE UNIT STRESS IN BENDING.  
HM/ZF= HORIZONTAL BENDING MOMENT DIVIDED BY THE SECTION MODULUS AND THE ALLOWABLE UNIT STRESS IN BENDING.  
CSI = COMBINED STRESS INTERACTION EQUATION IS THE ADDITION OF P/AF + VM/ZF + HM/ZF  
LAT. = MAXIMUM DISTANCE ALLOWABLE(FT) WITHOUT REQUIRING BRG SUPPORT.  
STRESSES SHOWN (FB FT FC) ARE ALLOWABLE LUMBER STRESSES (DUE TO THE SHORT TERM INCREASE AND OTHER APPROPRIATE FACTORS WHEREVER APPLICABLE).

CHORDS	SIZE	LUMBER DESCRIPTION
1- 3	2X 4	NO.2 KD15 SO. PINE
3- 5	2X 4	NO.2 KD15 SO. PINE
5- 1	2X 4	NO.1 D.KD15 SO.PINE

ALL WEBS 2X 4 NO.3 S.P.F.







MEMBER	FR-TO	FORCE (LBS)	HOR DISP FT-IN-SX	SLOPE/12 DEPTH IN	LOAD (PLF)	MAXIMUM UNBRAC. LENGTH	W E B S MEMBER FORCE FR-TO (LBS)	CHORDS	SIZE	LUMBER DESCRIPTION	DESIGN CRITERIA
1	HL01	GNQ20	3.0X 8.0	6-7-14	4.000	70.0	0.0	2-7	413C	NO.2 KD15 SO. PINE	TOP CH. LL= 25 PSF
2	IN11	GNQ20	1.0X 4.0	5-4-2	4.000	70.0	0.0	3-7	1039T	NO.2 KD15 SO. PINE	DL= 10 PSF
3	PK12	GNQ20	4.0X 4.0	3-4-2	-4.000	70.0	0.0	3-6	1039T	MSR1650F-1.5E S.P.F.	BOT CH. LL= 20 PSF
4	IN11	GNQ20	1.0X 4.0	6-7-14	-4.000	70.0	0.0	4-6	413C	NO.3 S.P.F.	DL= 10 PSF
5	HL01	GNQ20	3.0X 8.0	8-5-4	0.000	60.0	10.0				TOTAL LOAD= 65 PSF
6	IN02	GNQ20	4.0X 4.0	7-1-8	0.000	60.0	10.0				SPACING= 24 IN. C/C
7	IN02	GNQ20	4.0X 4.0	8-5-4	0.000	60.0	10.0				INPUT DEFL. L/360

THIS TRUSS IS DESIGNED TO SUPPORT VERTICAL LOADS AS DETERMINED BY OTHERS AND SHOWN ON INPUT LISTING. VERIFICATION OF LOADING, DEFLECTION LIMITATIONS, FRAMING METHODS, WIND BRACING OR OTHER LATERAL BRACING THAT IS ALWAYS REQUIRED, IS THE RESPONSIBILITY OF THE PROJECT ARCHITECT OR ENGINEER.

MAX. PURLIN SPACE= 0.0 FT. \* MAX. UNBRACED BOT.CH. LEN.= 10.0 FT. \*\*\* PLYWOOD SHEATHING REQUIRED ON TOP CHORD \*\*\*

NOTE: LATERAL BRACES AND PURLINS INDICATED FOR TRUSS MEMBERS ARE REQUIRED TO REDUCE BUCKLING LENGTH OF MEMBER, AND SHOULD BE NAILED TO TRUSS MEMBERS WITH MINIMUM OF 2-1/4" COMMON WIRE NAILS. PROVISIONS MUST BE MADE AT ENDS OR SPECIFIED INTERVALS TO RESTRAIN OR ANCHOR LATERAL BRACING. BY OTHERS.

NAIL VALUES (PSI) GROSS CHORDS WEBS  
 MAX MIN MAX MIN  
 GNQ20 228 140 190 140



444	GT	REACT	IN-SX	BRG
0.47	1	1560	4-0	
0.44	5	1560	4-0	
0.53				

CAMBER= 0-1/8 HEEL = 4/16

7 F3-19F SCALE= 4/16

DESIGN SPECS. FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES, TP1, 1985

SPLICES  
 6-7 SP10 GNQ20 4.0X 5.0

90-5714-2

12-0-0 12-0-0 24-0-0 4-3-15



Handling & Erection	Miscellaneous Information	Bracing Information	Connector Hardware	Lumber
Carrying handling of components shall not be permitted. Surfaces shall be protected from damage. No nails are to be applied to the components. No time shall be taken to apply design loads to the components. The components shall be stored in a dry area. Gang Nail Systems, Inc. reserves no control and accepts no responsibility for damage to components.	This data sheet and the information herein is the property of Gang Nail Systems, Inc. It is to be used in whole or in part or used for any other purpose without the written consent of Gang Nail Systems, Inc. The use of this component shall be specified by the designer of the structure. Obtain all necessary code approvals, approvals and instructions from the designer of the complete structure before using this component. When this drawing is signed and sealed, Gang Nail Systems, Inc. is approved only the structural design of the unit shown on the basis of data provided by the customer and shown on this drawing.	All lateral bracing specified is for bracing individual web members and must be applied to all members. Web bracing where required are to be equally spaced along web length. Lateral bracing members are assumed to be pinned or fixed to the main members. Restraint of lateral bracing and plain plates, gables, joints unless otherwise shown.	Connector plates are manufactured in accordance with TPI. Plates must be installed on both faces of the chord. Plates must be of the size, grade and capacity shown. All-Tens list plate sizes, positions, and joint details are shown.	Lumber must bear a grade mark from an approved inspection bureau and must be of the grade specified. Lumber shall be shown and equal to or better than the grade specified.

IMPORTANT: READ ALL NOTES ON THIS DRAWING!



11 MAR 8,1990 F3-19F

WARNING- VERIFY YOUR INPUT TO AVOID DESIGN AND FABRICATION MISTAKES.  
YOU ARE SOLELY RESPONSIBLE FOR ERRORS RESULTING FROM WRONG INPUT

REQUEST NO. CALCONLY QUOTE WOLOHAN DEFIANCE (546629) TGT

GANG NATL SYSTEMS INC. COPYRIGHT 1988.  
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13 7 REQUEST NO. CALCONLY QUOTE WOLOHAN DEFIANCE (546629) TGT T-2  
MAR 8,1990 F3-19F

SPAN (OUT TO OUT) 24.000  
NO. OF JOINTS 7  
LOC. OF REACTIONS 1 5  
SHORT TERM INCREASE TCH 1.15 BCH 1.15 WEBS 1.15 PLATES 1.15  
TOP CHORD LOAD SHARE = 15 BOTTOM CHORD LOAD SHARE = 15

\*\*\*PLYWOOD SHEATHING USED ON TOP CHORD WHERE APPLICABLE.\*\*\*

JT	HOR. DISP. FT	VER. DISP. SLOPE/12	VERTICAL UNIF. LD. PLF
1	6.6562	4.0000	-70.00
2	5.3438	4.0000	-70.00
3	5.3438	-4.0000	-70.00
4	6.6562	-4.0000	-70.00
5	-8.4375	0.0000	-60.00
6	-7.1250	0.0000	-60.00
7	-8.4375	0.0000	-60.00

TOTAL POSITIVE DISPLACEMENT= 24.00

NO. OF WEBS= 4  
2- 7 3- 7 3- 6 4- 6

GROSS REACTIONS(LBS):  
RV- 1= 1560.0 RV- 5= 1560.0  
RH- 1= 0.0

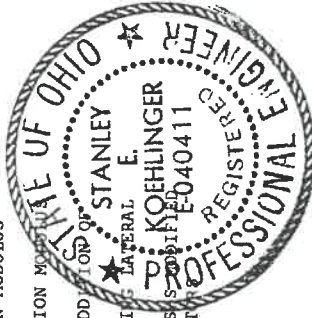
MEM	FORCE LBS	WID IN.	DEP IN.	FB PSI	FC:FT	Q	P/AF	VM/ZF	HM/ZF	CSI	LAT. BRC
TOP CHORD MEMBERS											
1- 2	-3302.	1.50	3.50	2013	1323	0.90	0.48	0.39	0.00	0.87	0.0
2- 3	-3029.	1.50	3.50	2013	1323	0.90	0.44	0.39	0.00	0.83	0.0
3- 4	-3029.	1.50	3.50	2013	1323	0.90	0.44	0.39	0.00	0.83	0.0
4- 5	-3302.	1.50	3.50	2013	1323	0.90	0.48	0.39	0.00	0.87	0.0
BOT CHORD MEMBERS											
5- 6	3132.	1.50	5.50	2185	1173	1.00	0.32	0.32	0.00	0.64	10.0
6- 7	2162.	1.50	5.50	2185	1173	1.00	0.23	0.32	0.00	0.54	10.0
7- 1	3132.	1.50	5.50	2185	1173	1.00	0.32	0.32	0.00	0.64	10.0
-WEB MEMBERS											
2- 7	-413.	1.50	3.50	633	474	0.00	0.17	0.00	0.00	0.17	2.8
3- 7	1039.	1.50	3.50	633	374	0.00	0.53	0.00	0.00	0.53	5.4

3- 6 1039. 1.50 3.50 633 374 0.00 0.53 0.00 0.00 0.53 5.4  
4- 6 -413. 1.50 3.50 633 474 0.00 0.17 0.00 0.00 0.17 2.8

DEFLECTION AT 7 = -0.2970 INCHES  
DEFLECTION BETWEEN 6- 7 = -0.3594 INCHES

EXPLANATIONS:

P/AF = AXIAL FORCE DIVIDED BY THE CROSS-SECTIONAL AREA AND THE ALLOWABLE UNIT STRESS IN TENSION OR COMPRESSION.  
VM/ZF= VERTICAL BENDING MOMENT DIVIDED BY THE SECTION MODULUS AND THE ALLOWABLE UNIT STRESS IN BENDING.  
HM/ZF= HORIZONTAL BENDING MOMENT DIVIDED BY THE SECTION MODULUS AND THE ALLOWABLE UNIT STRESS IN BENDING.  
CSI = COMBINED STRESS INTERACTION EQUATION IS THE ADDITION OF P/AF + VM/ZF + HM/ZF  
LAT. = MAXIMUM DISTANCE ALLOWABLE(FT) WITHOUT REQUIRING LATERAL SUPPORT.  
BRC = STRESSES SHOWN (FB FT FC) ARE ALLOWABLE LUMBER STRESSES BY THE SHORT TERM INCREASE AND OTHER APPROPRIATE FACTORS WHEREVER APPLICABLE.



CHORDS SIZE LUMBER DESCRIPTION  
1- 3 2X 4 NO.2 KD15 SO. PINE  
3- 5 2X 4 NO.2 KD15 SO. PINE  
5- 1 2X 6 MSRI650F-1.5E S.P.F.

ALL WEBS 2X 4 NO.3 S.P.F.



SCALE= 4/16  
JT TYPE

MEMBER	W	LEN	Y	X	(MEMBER)	FORCE (LBS)	CHORD SLOPE/12 FT-IN-SX	DEPTH IN	LOAD (PLF)	MAXIMUM UNBRAC. LENGTH	FR-TO	W E B S	MEMBER FORCE (LBS)	CHORDS	SIZE	LUMBER DESCRIPTION	DESIGN CRITERIA
1 HL01	GNO20	3.0X	8.0			3594C	7-1-14	4.000	70.0	0.0	2-7	450C	3594C	1-3	2X 4	NO.1 KD15 SO. PINE	TOP CH. LL= 25 PSF
2 IN11	GNO20	1.0X	4.0			3294C	5-10-2	4.000	70.0	0.0	3-7	1133T	3294C	3-5	2X 4	NO.1 KD15 SO. PINE	DL= 10 PSF
3 PK12	GNO20	4.0X	4.0			3294C	5-10-2	4.000	70.0	0.0	3-6	1133T	3294C	5-1	2X 6	MSR1650F-1.5E S.P.F.	DL= 20 PSF
4 HL01	GNO20	1.0X	4.0			3594C	7-1-14	4.000	70.0	0.0	4-6	450C	3594C	ALL WEBS	2X 4	NO.3 S.P.F.	TOTAL LOAD= 65 PSF
5 HL01	GNO20	3.0X	8.0			3409T	9-1-4	0.000	60.0	10.0			3409T				SPACING= 24 IN. C/C
6 IN02	GNO20	4.0X	4.0			2368T	7-9-8	0.000	60.0	10.0			2368T				INPUT DEFL. L/360
7 IN02	GNO20	4.0X	4.0			3410T	9-1-4	0.000	60.0	10.0			3410T				INCREASES (PER CENT) LUMBER= 15 NAIL= 15 TCH LS= 15 BCH LS= 15

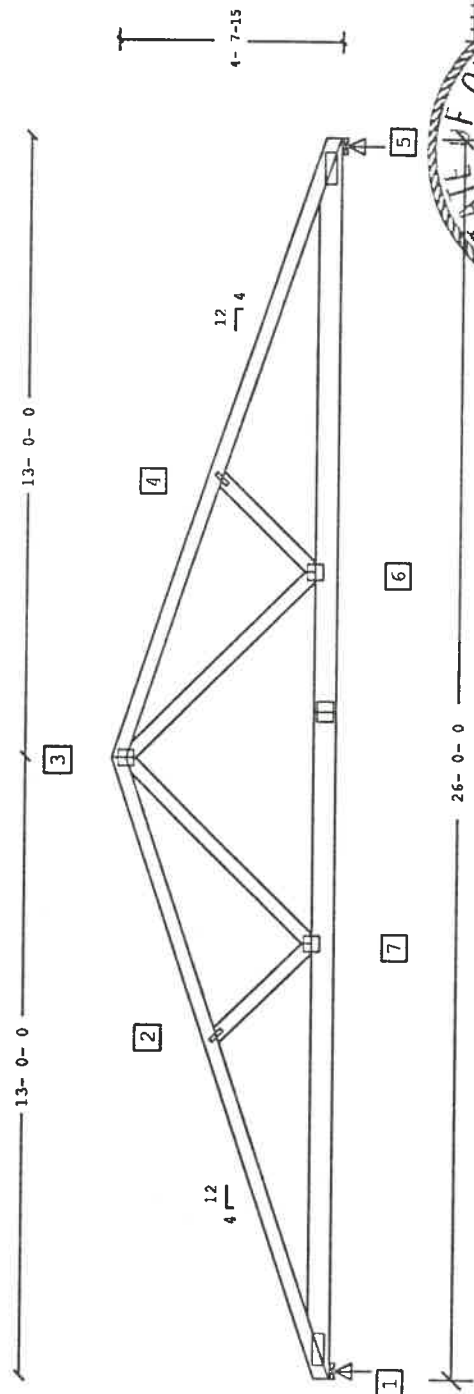
DESIGN SPECS. FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES, TPI, 1985

MAX. PURLIN SPACE= 0.0 FT. MAX. UNBRACED BOT. CH. LEN. = 10.0 FT. \*\*\* PLYWOOD SHEATHING REQUIRED ON TOP CHORD \*\*\*

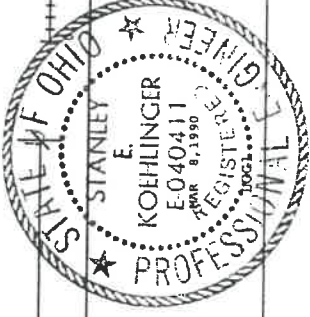
NOTE: LATERAL BRACES AND PURLINS INDICATED FOR TRUSS MEMBERS ARE REQUIRED TO REDUCE BUCKLING LENGTH OF MEMBER, AND SHOULD BE NAILED TO TRUSS MEMBERS WITH MINIMUM OF 2-100 COMMON WIRE NAILS. PROVISIONS MUST BE MADE AT ENDS OR SPECIFIED INTERVALS TO RESTRAIN OR ANCHOR LATERAL BRACING. BY OTHERS.

NAIL VALUES (PSI) GROSS CHORDS WEBS  
MAX MIN MAX MIN  
GNQ20 228 140 190 140

90-5714-3



GROSS BRG  
JT REACT IN-SX  
1 1690 4-0  
5 1690 4-0  
CAMBER= 0-1/8 HEEL= 4/16



Handling & Erection	Miscellaneous Information	Bracing Information	Connector Hardware	Lumber
Careless handling of components shall not be permitted. Temporary and permanent bracing for loading components shall be provided. No loads are to be applied to the component until after all bracing and fastenings are complete. The component shall be installed with design loads to be applied to the component. Care must be exercised to install component at proper bearing and obtain proper bearing. Gang Nail Systems, Inc. partitions no control and accepts no responsibility for the fabrication, handling, shipment and installation of components.	This data sheet and the information hereon is the property of Gang Nail Systems, Inc. and is not to be copied in whole or in part or used for any other purpose without the written consent of Gang Nail Systems, Inc. The use of this component shall be specified by the designer of the complete structure. Necessary code, applicable and instructions from the designer of the complete structure using this component. If the design criteria listed above does not meet local building code requirements, the designer shall be responsible for obtaining the necessary code and specifications for the complete structure. When this drawing is signed and sealed, Gang Nail Systems, Inc. is approving only the structural design of the unit shown on the basis of data provided by the customer and shown on this drawing.	All lateral bracing specified is for bracing individual web members and must be installed. Bracing specified are to be equally spaced along web length. Lateral bracing shall be sheathing. Chord members are assumed to be braced for lateral bracing and additional bracing provided by the designer of the complete structure.	Connectors are manufactured in accordance with TPI specifications. Plates must be installed on both faces of the lumber with fully embedded. Connector must be of the size, gauge and capacity shown. Refer to the AutoTruss joint detail for locations of fasteners. Fasteners must be installed in the locations specified unless other dimensions are shown.	Lumber must bear a grade mark from a recognized inspection bureau and must be of the size and species indicated. Lumber shall be of better quality than that shown. Design Criteria: The truss shall be constructed of materials specified in substantial conformity with the provisions of NDS, AISC and TPI.

IMPORTANT: READ ALL NOTES ON THIS DRAWING!



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4

11 MAR 8,1990 F3-19F

WARNING- VERIFY YOUR INPUT TO AVOID DESIGN AND FABRICATION MISTAKES.  
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REQUEST NO. CALCONLY QUOTE WOLOHAN DEFIANCE (546629) TGT

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13 7 REQUEST NO. CALCONLY QUOTE WOLOHAN DEFIANCE (546629) TGT T-3  
MAR 8,1990 F3-19F

SPAN (OUT TO OUT) 26.000  
NO. OF JOINTS 7  
LOC. OF REACTIONS 1 5  
SHORT TERM INCREASE TCH 1.15 BCH 1.15 WEBS 1.15 PLATES 1.15  
TOP CHORD LOAD SHARE = 15 BOTTOM CHORD LOAD SHARE = 15

\*\*\*PLYWOOD SHEATHING USED ON TOP CHORD WHERE APPLICABLE.\*\*\*

JT	HOR. DISP. FT	VER. DISP. SLOPE/12	VERTICAL UNIF. LD. PLF
1	7.1562	4.0000	-70.00
2	5.8438	4.0000	-70.00
3	5.8438	-4.0000	-70.00
4	7.1562	-4.0000	-70.00
5	-9.1042	0.0000	-60.00
6	-7.7917	0.0000	-60.00
7	-9.1042	0.0000	-60.00

TOTAL POSITIVE DISPLACEMENT= 26.00

NO. OF WEBS= 4  
2- 7 3- 7 3- 6 4- 6

GROSS REACTIONS (LBS):  
RV- 1= 1690.0 RV- 5= 1690.0  
RH- 1= 0.0

MEM	FORCE LBS	WID IN.	DEP IN.	FB PSI	FC:FT	Q	P/AF	VM/ZF	HM/ZF	CSI	LAT- BRC
TOP CHORD MEMBERS											
1- 2	-3594.	1.50	3.50	2080	1510	0.75	0.45	0.37	0.00	0.82	0.0
2- 3	-3294.	1.50	3.50	2108	1510	0.75	0.42	0.36	0.00	0.78	0.0
3- 4	-3294.	1.50	3.50	2108	1510	0.75	0.42	0.36	0.00	0.78	0.0
4- 5	-3594.	1.50	3.50	2080	1510	0.75	0.45	0.37	0.00	0.82	0.0
BOT CHORD MEMBERS											
5- 6	3409.	1.50	5.50	2185	1173	1.00	0.35	0.37	0.00	0.73	10.0
6- 7	2368.	1.50	5.50	2185	1173	1.00	0.24	0.37	0.00	0.62	10.0
7- 1	3410.	1.50	5.50	2185	1173	1.00	0.35	0.37	0.00	0.73	10.0
WEB MEMBERS											
2- 7	-450.	1.50	3.50	633	469	0.00	0.18	0.00	0.00	0.18	3.1
3- 7	1133.	1.50	3.50	633	374	0.00	0.58	0.00	0.00	0.58	5.8

3- 6 1133. 1.50 3.50 633 374 0.00 0.58 0.00 0.00 0.58 5.8  
4- 6 -450. 1.50 3.50 633 469 0.00 0.18 0.00 0.00 0.18 3.1

DEFLECTION AT 7 = -0.3247 INCHES  
DEFLECTION BETWEEN 6- 7 = -0.4140 INCHES

EXPLANATIONS:

P/AF = AXIAL FORCE DIVIDED BY THE CROSS-SECTIONAL AREA AND THE ALLOWABLE UNIT STRESS IN TENSION OR COMPRESSION.

VM/ZF= VERTICAL BENDING MOMENT DIVIDED BY THE SECTION MODULUS AND THE ALLOWABLE UNIT STRESS IN BENDING.

HM/ZF= HORIZONTAL BENDING MOMENT DIVIDED BY THE SECTION MODULUS AND THE ALLOWABLE UNIT STRESS IN BENDING.

CSI = COMBINED STRESS INTERACTION EQUATION IS THE P/AF + VM/ZF + HM/ZF

LAT. = MAXIMUM DISTANCE ALLOWABLE (FT) WITHOUT REQUIRING LATERAL SUPPORT.

BRC = STRESSES SHOWN (FB FT FC) ARE ALLOWABLE LUMBER STRESSES BY THE SHORT TERM INCREASE AND OTHER APPROPRIATE WHEREVER APPLICABLE.



CHORDS SIZE LUMBER DESCRIPTION  
1- 3 2X 4 NO.1 KD15 SO. PINE  
3- 5 2X 4 NO.1 KD15 SO. PINE  
5- 1 2X 6 MSRI650F-1.5E S.P.F.

ALL WEBS 2X 4 NO.3 S.P.F.F.





7 F3-19F  
SCALE=3/16  
JI TYPE

MEMBER	W	LEN	Y	X	(MEMBER)	MEMBER	FORCE	C H O R D S	LOAD	MAXIMUM	W E B S	CHORDS	LUMBER	DESCRIPTION	DESIGN CRITERIA
FR-TO						FR-TO	(LBS)	HOR DISP FT-IN-SX	(PLF)	UNBRAC. LENGTH	FR-TO	1-3	NO.1 KD15 SO. PINE	TOP CH. LL= 25 PSF	
1-2	HLO1	GNQ20	3.0X	8.0		1-2	3886C	7- 7-14	70.0	0.0	2- 7	2X 4	NO.1 KD15 SO. PINE	DL= 10 PSF	
2-3	IN11	GNQ20	1.0X	4.0		2-3	3559C	6- 4-2	70.0	0.0	3- 7	2X 4	NO.1 KD15 SO. PINE	DL= 20 PSF	
3-4	PK12	GNQ20	4.0X	4.0		3-4	3559C	6- 4-2	70.0	0.0	3- 6	2X 6	MSR1650F-1.5E S.P.F.	DL= 10 PSF	
4-5	HLO1	GNQ20	3.0X	8.0		4-5	3886C	7- 7-14	70.0	0.0	4- 6	2X 4	NO.3 S.P.F.	DL= 10 PSF	
5-6	IN02	GNQ20	4.0X	4.0		5-6	3687T	9- 9-4	60.0	10.0	4- 6	ALL WEBS	NO.3 S.P.F.	TOTAL LOAD= 65 PSF	
6-7	IN02	GNQ20	4.0X	4.0		6-7	2533T	8- 9-4	60.0	10.0	7- 1	ALL WEBS	NO.3 S.P.F.	SPACING= 24 IN. C/C	
7-1	SPLICES	6- 7	SP10	GNQ20	4.0X	5.0	3687T	9- 9-4	60.0	10.0	7- 1	ALL WEBS	NO.3 S.P.F.	INPUT DEFL. L/360	

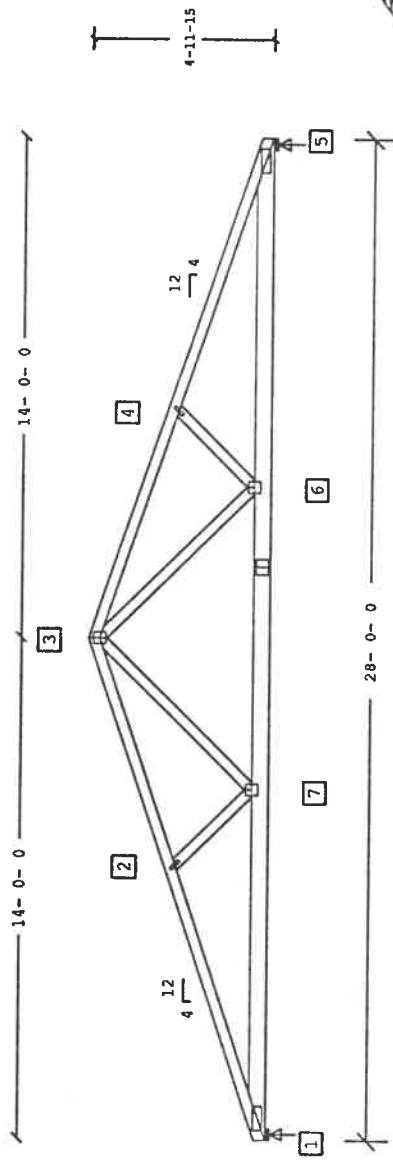
THIS TRUSS IS DESIGNED TO SUPPORT VERTICAL LOADS AS DETERMINED BY OTHERS AND SHOWN ON INPUT LISTING. VERIFICATIONS OF LOADING, DEFLECTION LIMITATIONS, FRAMING METHODS, WIND BRACING OR OTHER LATERAL BRACING THAT IS ALWAYS REQUIRED, IS THE RESPONSIBILITY OF THE PROJECT ARCHITECT OR ENGINEER.

MAX. PURLIN SPACE= 0.0 FT., MAX. UNBRACED BOT. CH. LEN.= 10.0 FT.  
\*\*\* PLYWOOD SHEATHING REQUIRED ON TOP CHORD \*\*\*

NOTE: LATERAL BRACES AND PURLINS INDICATED FOR TRUSS MEMBERS AND SHOULD BE NAILED TO TRUSS MEMBERS WITH MINIMUM OF 2-10D COMMON WIRE NAILS. PROVISIONS MUST BE MADE AT ENDS OR SPECIFIED INTERVALS TO RESTRAIN OR ANCHOR LATERAL BRACING. BY OTHERS.

DESIGN SPECS. FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES, TPI, 1985

MAIL VALUES (PST) GROSS  
CHORDS WEBS  
MAX MIN MAX MIN  
GNQ20 228 140 190 140



40A	GROSS	BRG
0.16	1820	4- 0
0.12	1820	4- 0
0.12	1820	4- 0

CAMBER= 0-1/8 HEEL= 4/16



Handling & Erection	Miscellaneous Information	Bracing Information	Connector Hardware	Lumber
Caution handling of components shall not be permitted. Temporary and permanent bracing for holding component plumb and for resisting lateral forces shall be designed and installed by the contractor. All bracing shall be installed in accordance with the design drawings. At no time shall loads greater than design loads be applied to the component. The contractor shall be responsible for the bracing, handling, alignment and installation of components.	This data sheet and the information herein is the property of Gang-Nail Systems, Inc. and is loaned to you for your use only. It is not to be reproduced or used for furnishing information to others without the written consent of Gang-Nail Systems, Inc. Obtain all necessary code compliance, approvals and instructions from the designer of the complete structure before using this component. When this drawing is signed and sealed, Gang-Nail Systems, Inc. requires that you shall not make any changes or alterations to the design or specifications provided by this customer and shown on this drawing.	All lateral bracing specified is for members with members and web bracing. Web bracing when required are to be equally spaced along web length. Lateral bracing is to be installed in accordance with the design drawings. Additional bracing and connections are to be provided by the designer of the complete structure.	Connector plates are manufactured in accordance with TPI. Plates shall be installed on both faces of the lumber with teeth fully embedded. Plates must be of the size, gauge and finish specified in the design drawings. Also, Tensile strength shall be provided for all joints unless other dimensions are shown.	Lumber must bear a grade mark from an approved source. The grade and moisture content shall be shown and equal to or better than the grain specified in the design drawings. Design Criteria: Lumber specified are with substantial revision of NDS, AITC and TPI.

IMPORTANT: READ ALL NOTES ON THIS DRAWING!



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11 MAR 8,1990 F3-19F

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REQUEST NO. CALCONLY QUOTE WOLOHAN DEFIANCE (546629) TGT

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13 7 REQUEST NO. CALCONLY QUOTE WOLOHAN DEFIANCE (546629) TGT T-4  
MAR 8,1990 F3-19F

SPAN (OUT TO OUT) 28.000  
NO. OF JOINTS 7  
LOC. OF REACTIONS 1 5  
SHORT TERM INCREASE TCH 1.15 BCH 1.15 WEBS 1.15 PLATES 1.15  
TOP CHORD LOAD SHARE = 15 BOTTOM CHORD LOAD SHARE = 15

\*\*\*PLYWOOD SHEATHING USED ON TOP CHORD WHERE APPLICABLE.\*\*\*

JT	HOR.DISP. FT	VER.DISP. SLOPE/12	VERTICAL UNIF.LD. PLF
1	7.6562	4.0000	-70.00
2	6.3438	4.0000	-70.00
3	6.3438	-4.0000	-70.00
4	7.6562	-4.0000	-70.00
5	-9.7708	0.0000	-60.00
6	-8.4583	0.0000	-60.00
7	-9.7708	0.0000	-60.00

TOTAL POSITIVE DISPLACEMENT= 28.00

NO. OF WEBS= 4  
2- 7 3- 7 3- 6 4- 6

GROSS REACTIONS (LBS):

RV- 1= 1820.0 RV- 5= 1820.0  
RH- 1= 0.0

MEM	FORCE LBS	WID IN.	DEP IN.	FB PSI	FC:FT Q	P/AF VM/ZF	HM/ZF	CSI	LAT. BRC
TOP CHORD MEMBERS									
1- 2	-3886.	1.50	3.50	1976	1458	0.75	0.51	0.45	0.00
2- 3	-3559.	1.50	3.50	2013	1458	0.75	0.46	0.44	0.00
3- 4	-3559.	1.50	3.50	2013	1458	0.75	0.46	0.44	0.00
4- 5	-3886.	1.50	3.50	1976	1458	0.75	0.51	0.45	0.00
BOT CHORD MEMBERS									
5- 6	3687.	1.50	5.50	2185	1173	1.00	0.38	0.44	0.00
6- 7	2553.	1.50	5.50	2185	1173	1.00	0.26	0.44	0.00
7- 1	3687.	1.50	5.50	2185	1173	1.00	0.38	0.44	0.00
WEB MEMBERS									
2- 7	-487.	1.50	3.50	633	462	0.00	0.20	0.00	0.20
3- 7	1226.	1.50	3.50	633	374	0.00	0.62	0.00	0.62

3- 6 1226. 1.50 3.50 633 374 0.00 0.62 0.00 0.00 0.62 6.3  
4- 6 -487. 1.50 3.50 633 462 0.00 0.20 0.00 0.00 0.20 3.3

DEFLECTION AT 7 = -0.3770 INCHES  
DEFLECTION BETWEEN 6- 7 = -0.5011 INCHES

EXPLANATIONS:

P/AF = AXIAL FORCE DIVIDED BY THE CROSS-SECTIONAL AREA AND THE ALLOWABLE UNIT STRESS IN TENSION OR COMPRESSION.

VM/ZF= VERTICAL BENDING MOMENT DIVIDED BY THE SECTION MODULUS AND THE ALLOWABLE UNIT STRESS IN BENDING.

HM/ZF= HORIZONTAL BENDING MOMENT DIVIDED BY THE SECTION MODULUS AND THE ALLOWABLE UNIT STRESS IN BENDING.

CSI = COMBINED STRESS INTERACTION EQUATION IS THE MAXIMUM DISTANCE ALLOWABLE (FT) WITHOUT REQUIRING LATERAL SUPPORT.

LAT. = MAXIMUM DISTANCE ALLOWABLE (FT) WITHOUT REQUIRING LATERAL SUPPORT.

BRC = MAXIMUM DISTANCE ALLOWABLE (FT) WITHOUT REQUIRING LATERAL SUPPORT. STRESSES SHOWN (FB FT FC) ARE ALLOWABLE LUMBER STRESSES BY THE SHORT TERM INCREASE AND OTHER APPROPRIATE FACTORS WHEREVER APPLICABLE.

CHORDS	SIZE	LUMBER DESCRIPTION
1- 3	2X 4	NO.1 KD15 SO. PINE
3- 5	2X 4	NO.1 KD15 SO. PINE
5- 1	2X 6	MSR1650F-1.5E S.P.F.

ALL WEBS 2X 4 NO.3 S.P.F.





SEWER TAPPING PERMIT

Issued by

The City of Napoleon Engineering Dept.

255 West Riverview Ave. Napoleon, Ohio 43545 Pn. 592-4010

Entry No. \_\_\_\_\_

Permit No. SA 01304 Issued 4-5-90 ~~1-1-90~~ Build. Permit No. 01915

Permit Fee \$ 601.00

Job Location 1045 Chester Field

Street Bond \$ NONE

Lot 23 Twin Oaks

Date Paid 2-19-90

Issued By EH sub div. or legal disc.

Owner Kuhle Builders - Supply Co Pn. 782-7756

Address RR #4 Detonice, D

Agent Richard J. Kelle Pn. 782-7756

Address RR #4 Detonice, D

for office use only

WORK INFORMATION

Sanitary Sewer Tap  Size of Tap 4 Size and Type of Sewer PVC Street to be Opened \_\_\_\_\_  
yes no yes no

Storm Sewer Tap  Size of Tap 4 Size and Type of Sewer 4 Street to be Opened \_\_\_\_\_  
yes no yes no

Street opening Agreement Approval Date \_\_\_\_\_ Opening Bond Fee (Set by Engineer) \_\_\_\_\_

READ AND SIGN BELOW; The undersigned hereby agrees complete the work described above and to make use of said sewers only as allowed by and in strict accordance with all applicable provisions of The Napoleon Engineering Dept. Rules and Regulations, The Napoleon Standard Specification for Water Main, Sanitary Sewer and Storm Sewer Construction and other Pertinent Sections of the Napoleon Code of Ordinances.

Date 2-13-90 Signature of Applicant Richard J. Kelle

Permit not valid without signature

INSPECTION RECORD \_\_\_\_\_ to be completed by the Field Inspector

Date Inspection is made 5/30/90 Size and Type of Sewer 4" P.V.C.

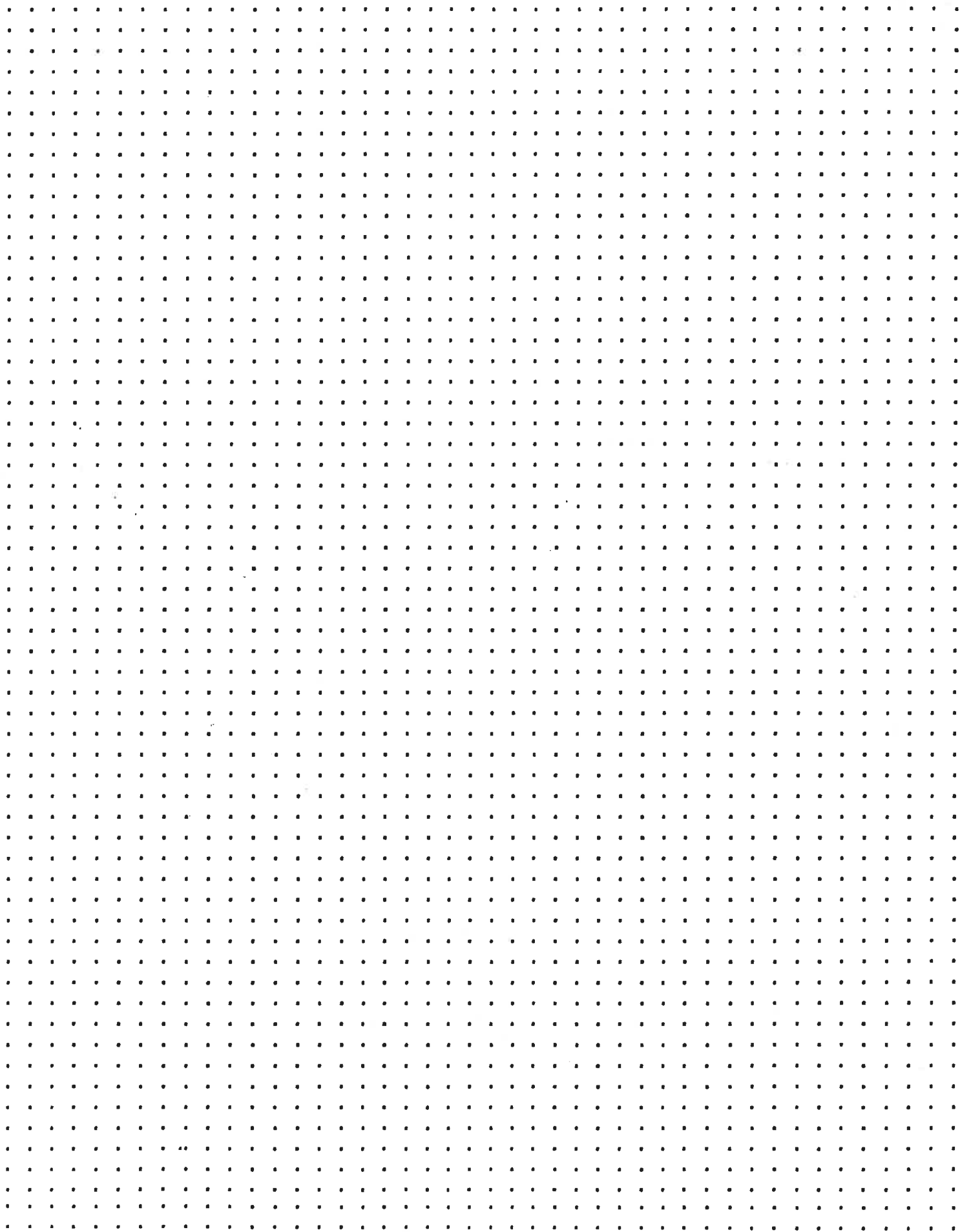
Location \_\_\_\_\_ Depth \_\_\_\_\_ Type of Test \_\_\_\_\_ Additional Information \_\_\_\_\_

See Attached

Date 5/30/90 Inspected By Malcolm Helberg

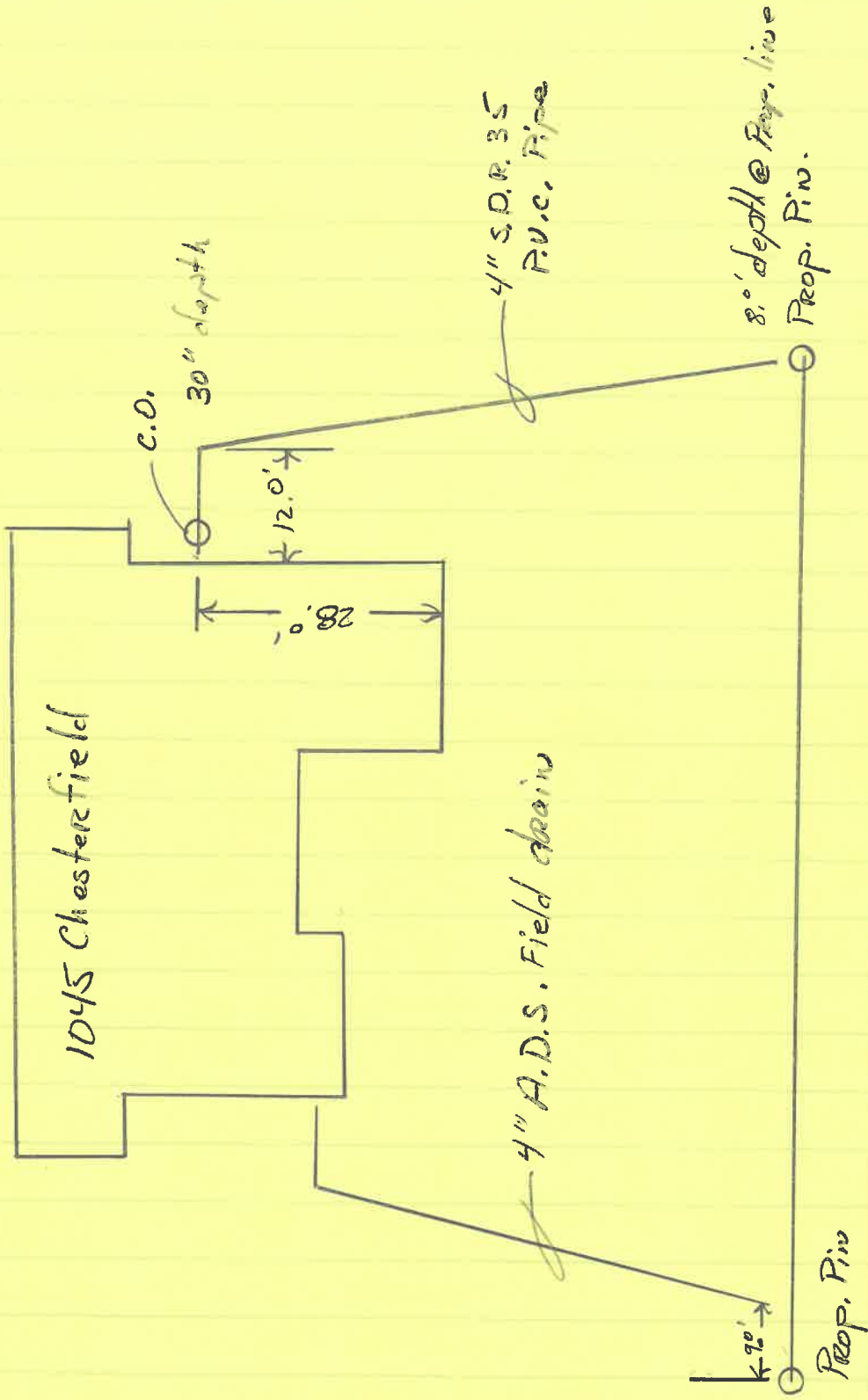
signature of inspector

Sketch Of Installation on Back or Attached



Kahle Builders  
R. R. 4 Defiance

5-30-90







DRIVEWAY, CURB CUT AND / OR SIDEWALK PERMIT

FEE AMOUNT \_\_\_\_\_ DATE PAID \_\_\_\_\_ PERMIT NO. \_\_\_\_\_

OWNER Kable Builders & Supply Co CONTRACTOR Kable Builders & Supply Co

ADDRESS RR#1 Det. 0 ADDRESS RR#1 Det. 0

PHONE ( ) 782-7756 PHONE ( ) \_\_\_\_\_

DATE 2-13-90 CONTRACTOR'S REGISTRATION NO. \_\_\_\_\_

LOT 23 BLOCK \_\_\_\_\_ SUBDIVISION Twin Oaks

PROJECT ADDRESS OF PROPOSED WORK 1045 Chesterfield

THIS WORK WILL BE COMPLETED BY THIS DATE \_\_\_\_\_

AGREEMENT (WORK SHALL NOT BEGIN UNTIL THE PERMIT IS RECEIVED)

I  have applied to the City of Napoleon, Ohio for a permit to repair \_\_\_\_\_; reset \_\_\_\_\_; reconstruct \_\_\_\_\_; or construct ; a <sup>SIDEWALK</sup> ~~DRIVEWAY~~ in the public right-of-way adjacent to CHESTERFIELD street for the purposes described in this application. In consideration of the City's issuance of the permit, I, as owner/contractor responsible for the work, do hereby agree as follows:

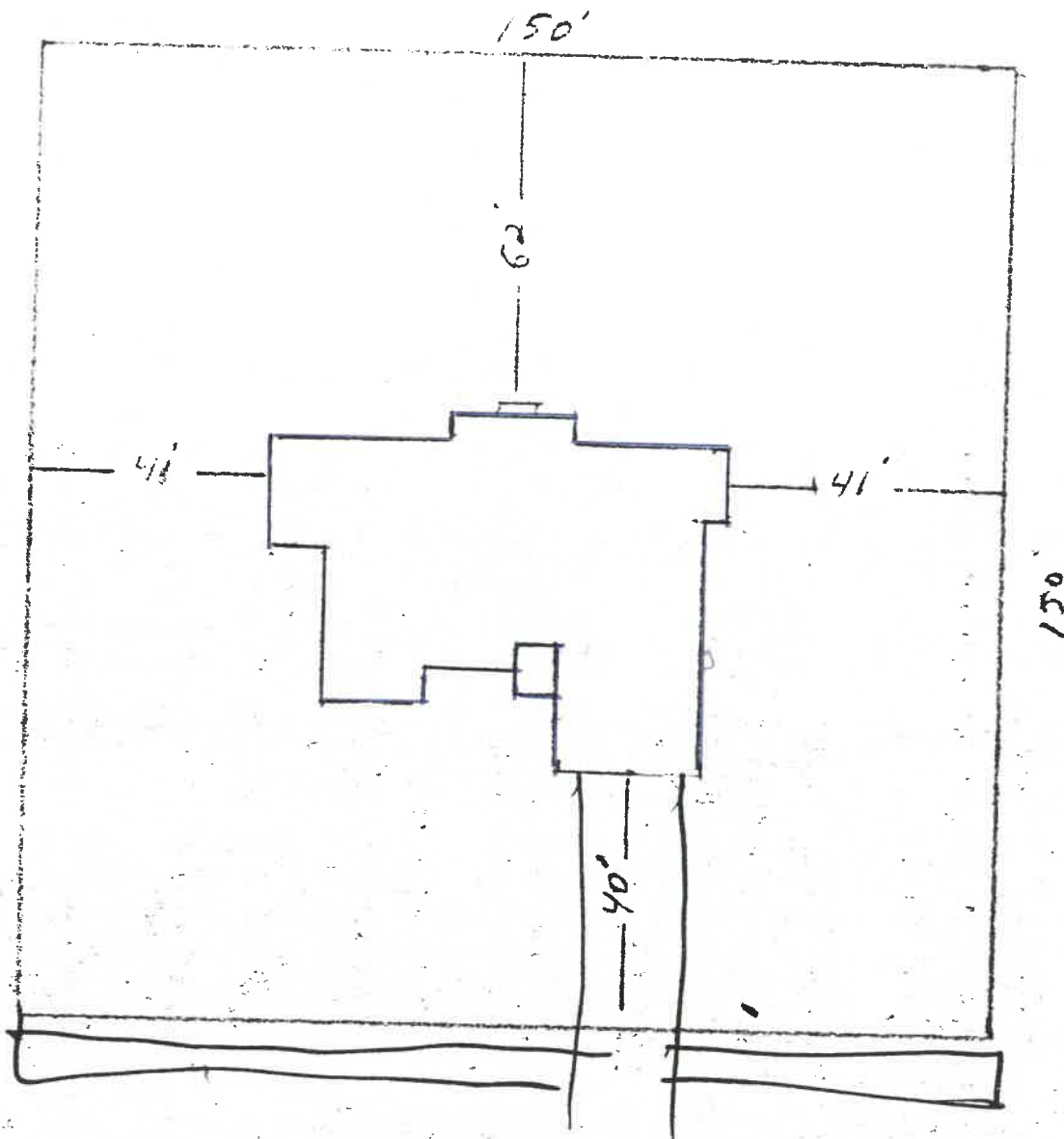
- 1) That all work, including barricading the work area to protect pedestrians and the traveling public, and all backfill and repair to pavement and lawn areas disturbed by the work, will be done in conformity with applicable law and regulations, specifically, the provisions of Napoleon Code, Chapter 90, and the regulations of the City Engineer.
- 2) That all work, as indicated above, will be performed in the time provided, and in conformity with lawful conditions, and standard drawings included in the permit, and to protect the public health, safety and welfare.
- 3) That I, as owner/contractor responsible for the work, hereby agree to indemnify the City of Napoleon, Ohio for all damage to its property, and hold the City harmless from all claims suits, losses, and expenses it may incur to persons not a party to the Agreement arising out of the activities of the applicant, his agent, employees, or contractors, in connection with a permit issued on the basis of this application.
- 4) That this Agreement shall not be construed as a limitation of the authority of the City Engineer to revoke this permit because of the applicant's or his agent's or contractor's failure to comply with state and local laws; regulations or conditions in this permit; or any other lawful basis of revocation.
- 5) That the statements made in the application are true and correct, to the best of my knowledge.

APPLICANT: R. L. D. Kable DATE: 2-13-90

INSPECTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

NOTES:





Plot Plan - lot-23

1/4" = 10'

Twio Oaks

