P E R M I T

CITY OF NAPOLEON
255 W. RIVERVIEW AVE
NAPOLEON, OHIO 43545

DIVISION OF BUILDING & ZONING
PH (419) 592-4010
FAX (419) 599-8393

PERMIT NO: 97236 DATE ISSUED: 07-01-97 ISSUED BY: BND

JOB LOCATION: 1460 THERSHAN DR EST. COST: 129165.00

LOT #: 59 SUBDIVISION NAME: TWIN OAKS 3RD

OWNER: SHAFER, RONALD
ADDRESS: 878 E GRACEWAY DR
CSZ: NAPOLEON, OH 43545
PHONE: 419-592-8346

AGENT: WAYNE HOMES INC
ADDRESS: 6489 S DIXIE HWY
CSZ: CYGNET, OH 43413
PHONE: 419-655-2535

USE TYPE - RESIDENTIAL: OTHER:

ZONING INFORMATION

DIST: LOT DIM: AREA: FYRD: SYRD: RYRD:
MAX HT: # PKG SPACES: # LOADING SP: MAX LOT COV:

BOARD OF ZONING APPEALS:

WORK TYPE - NEW: REPLMNT: ADD'N: ALTER: REMODEL:

WORK INFORMATION

SIZE - LGTH: WIDTH: STORIES: LIVING AREA SF:
GARAGE AREA SF: HEIGHT: BLDG VOL DEMO PERMIT:

WORK DESCRIPTION
NEW HOME

FEE DESCRIPTION	PAID DATE	FEE AMOUNT DUE
BUILDING PERMIT		261.00
ELECTRICAL PERMIT		100.00
PLUMBING PERMIT		45.00
MECHANICAL PERMIT		48.00
WATER TAP PERMIT		685.00
SEWER PERMIT		254.00

PAID JUL 24 1997 CITY OF NAPOLEON

TOTAL FEES DUE 1393.00

7-23-97
DATE

John Fuhan Wayne Homes
APPLICANT SIGNATURE

CITY OF NAPOLEON

ELECTRIC METER BASE RELEASE FORM

THIS DOCUMENT ENTITLES THE HOLDER TO "ONE" ELECTRIC METER BASE
(Please pickup at the City operations garage 1775 Industrial Drive).

PERMIT #: 97236 ISSUED:07-01-97

JOB LOCATION: 1460 THERSHAN DR

WORK DESCRIPTION: NEW HOME

OWNER: SHAFER, RONALD

ADDRESS: 878 E GRACEWAY DR NAPOLEON, OH 43545

OWNER PHONE: 419-592-8346

CONTRACTOR: WAYNE HOMES INC

ADDRESS: 6489 S DIXIE HWY CYGNET, OH 43413

CONTRACTOR PHONE: 419-655-2535

ELECTRIC SERVICE UPGRADE ____ NEW SERVICE INSTALLATION X

INDUSTRIAL ____ COMMERCIAL ____ RESIDENTIAL X 1PHASE X 3PHASE ____

SIZE OF SERVICE 100AMP ____ 150AMP ____ 200AMP X 400AMP ____ OTHER ____

HUB SIZE - 11/4" ____ 11/2" ____ 2" ____

DESIRED VOLTAGE 120/240 X OTHER _____

UNDERGROUND SERVICE X OVERHEAD SERVICE ____

==========

DATE COMPLETED: _____ APPROVED BY: _____

OLD METER NUMBER: _____ NEW METER NUMBER: _____

COMMENTS:

_____

_____

_____

1-Copy Bldg Dept. 2-Copies Electric Dept. 1-Completed Copy to Utilities

CITY OF NAPOLEON INSPECTION FORM

PERMIT #: 97236

DATE ISSUED: 07-01-97

JOB LOCATION: 1460 THERSHAN DR

OWNER: SHAFER, RONALD

OWNER PHONE:419-592-8346

CONTRACTOR: WAYNE HOMES INC

CONTRACTOR PHONE:419-655-2535

WORK DESCRIPTION: NEW HOME

PLUMBING: UNDGR _____ RGHIN 9-24 FINAL 12-29

SEWER INSP _____

MECHANICAL: UNDGR _____ RGHIN 9-24 FINAL 12-18

FURNACE REPLC _____ AIR COND _____

ELECTRICAL: UNDGR _____ RGHIN 9-24 FINAL 12-29

SERV UPGR _____

BUILDING: SITE 7-28 FTG 7-28 FNDT 8-7-97

STRUC 9-24 ROOF 9-24 EXT 9-24

VENT _____ ACCES _____ EGRS _____

SMKDT _____ FINAL _____

ISSUE TEMP OCCUP _____ ISSUE OCCUP X

STRG SHED: SITE _____ FINAL _____

SIGN: FTG _____ FINAL _____

FENCE: SITE _____ FINAL _____

MISC INSP: _____

NOTES: Truss rafter connection in cathedral area?

Corrected 10-8-97

INSPECTOR INITIALS: _____

CITY OF NAPOLEON

WATER METER YOKE RELEASE FORM

THIS DOCUMENT ENTITLES THE HOLDER TO "ONE" WATER METER YOKE ASSEMBLY
(Please pickup at City Operations Department 1775 Industrial Drive).

PERMIT #: 97236 ISSUED: 07-01-97

JOB LOCATION: 1460 THERSHAN DR

OWNER: SHAFER, RONALD PHONE: 419-592-8346

ADDRESS: 878 E GRACEWAY DR NAPOLEON, OH 43545

CONTRACTOR: WAYNE HOMES INC (Dewese Plumbing 246-0513

ADDRESS: 6489 S DIXIE HWY CYGNET, OH 43413

PHONE: 419-655-2535

WATER TAP SIZE 1" X 1.5" ____ 2" ____ OTHER _____

WATER METER YOKE SIZE 5/8" ____ 3/4" X 1" ____ OTHER _____

NEW STRUCTURE X EXISTING STRUCTURE ____ LAWN METER ____

WATER SERVICE LINE TO BE TYPE "K" COPPER OR "CTS" POLYETHELENE TUBING OF 1" MINIMUM SIZE.

BACKFLOW DEVICE REQUIRED YES X NO ____

TYPE OF BACKFLOW DEVICE REQUIRED all hose bibbs - Vacuum breakers.

WATER METER YOKE INSTALLATION IS SUBJECT TO THE FOLLOWING CONDITIONS

1.) MUST BE LOCATED IN AN ACCESSIBLE AREA.

2.) MUST BE IN AN AREA WHICH IS NOT SUBJECT TO FREEZING TEMPERATURES.

3.) MUST BE AT LEAST 18" ABOVE FLOOR LEVEL (NO CRAWL SPACE INSTALLATIONS).

4.) MUST COMPLY WITH MINIMUM MOUNTING REQUIREMENTS (DRAWING AVAILABLE)

ISSUED BY _____ RECEIVED BY _____

1-Copy to: Building Dept, Water Dept, and Utilities Dept

QUOTE WA HOMES EE1611 STARK ' S CO. OH 109 MILES AVE. S.W. CANTON , OHIO 44710

7 F3-19M
SCALE= 3/16

JT	TYPE	W	LEN	Y	X (MEMBER)
1	HL01	M20	3.0X	4.0	
2	IN11	M20	1.0X	4.0	
3	PK12	M20	4.0X	4.0	
4	IN11	M20	1.0X	4.0	
5	HL01	M20	3.0X	4.0	
6	IN02	M20	3.0X	4.0	
7	IN02	M20	3.0X	4.0	

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

CHORDS

MEMBR FR-TO	FORCE (LBS)	HOR DISP FT-IN-SX	SLOPE/12 DEPTH IN	LOAD (PLF)	MAXIMUM UNBRAC. LENGTH
1- 2	1383C	4- 2-13	7.000	70.0	0.0
2- 3	1261C	3- 9- 3	7.000	70.0	0.0
3- 4	1261C	3- 9- 3	-7.000	70.0	0.0
4- 5	1383C	4- 2-13	-7.000	70.0	0.0
5- 6	1195T	5- 5-14	0.000	60.0	10.0
6- 7	815T	5- 0- 5	0.000	60.0	10.0
7- 1	1195T	5- 5-14	0.000	60.0	10.0

WEBS

MEMBR FR-TO	FORCE (LBS)
2- 7	232C
3- 7	578T
3- 6	578T
4- 6	232C

CONC JT	LOAD LBS
1	67
5	67

CHORDS	SIZE	LUMBER DESCRIPTION
1- 3	2X 4	NO.2 MC15/19 SYP
3- 5	2X 4	NO.2 MC15/19 SYP
5- 1	2X 4	NO.2 MC15/19 SYP
ALL WEBS	2X 4	STUD S.P.F.

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 BUILDING DESIGNER.

DESIGN CRITERIA

TOP CH. LL= 25.0 PSF
DL= 10.0 PSF
BOT CH. LL= 20.0 PSF
DL= 10.0 PSF
TOTAL LOAD= 65.0 PSF

SPACING= 24 IN. C/C

INPUT DEFL. L/360

INCREASES(PER CENT)
LUMBER= 15 NAIL= 15
TCH LS= 15 BCH LS= 15

NAIL VALUES(PSI) GROSS

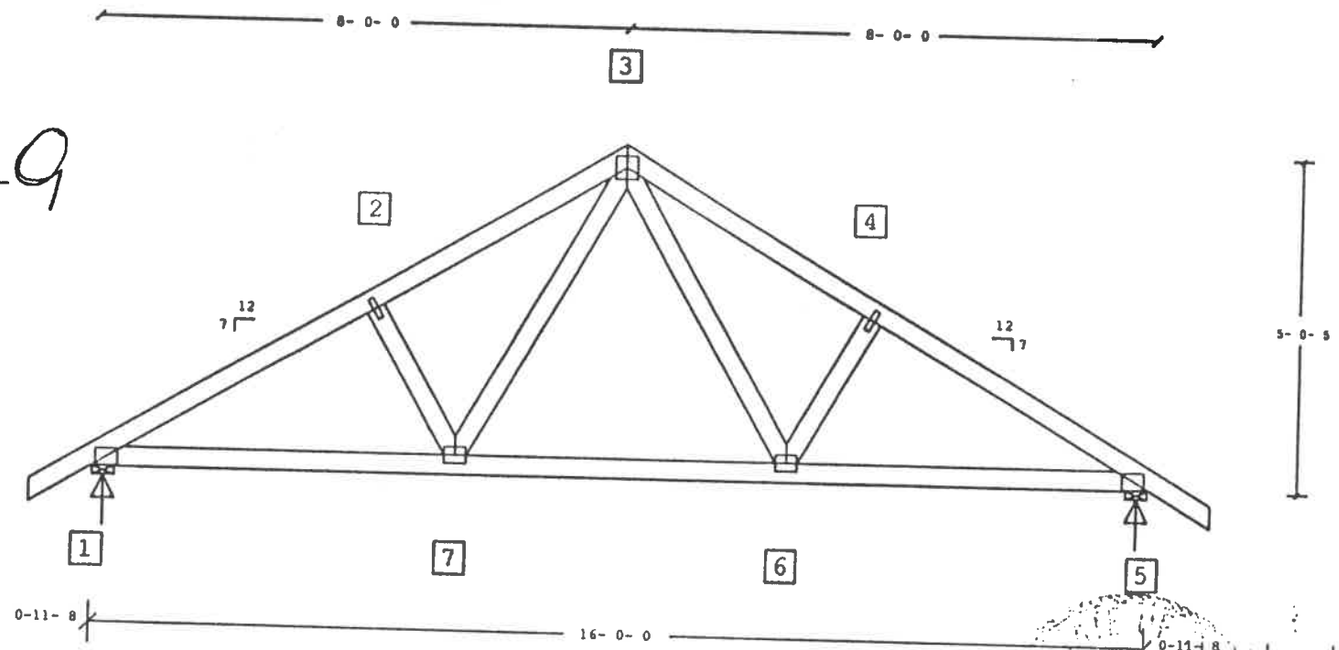
	CHORDS MAX	CHORDS MIN	WEBS MAX	WEBS MIN
M20	258	216	199	146

LEFT OVERHANG = 0-11- 8
RIGHT OVERHANG= 0-11- 8

PROVIDE FOR 33.5 LBS HORIZONTAL REACTION AT JOINT- 1

THIS TRUSS HAS BEEN DESIGNED FOR THE WIND LOADS GENERATED BY 80.0 M.P.H. WINDS AT 25.0 FT. ABOVE GROUND LEVEL, USING 7.0 P.S.F TOP CHORD DEAD LOAD AND 10.0 P.S.F BOTTOM CHORD DEAD LOAD, 100.0 MILES FROM HURRICANE OCEANLINE, ON A CATEGORY I ENCLOSED BUILDING, OF DIMENSIONS 99.0 BY 16.0 WITH EXPOSURE C (ASCE 7-88).
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.



921-1341-9

4AA
0.22
0.62
0.27

JT	GROSS REACT	BRG IN-SX
1	1107	4- 0
5	1107	4- 0

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

Handling & Erection

Careless 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 others. No loads are to be applied to the component until after all bracing and fastenings are complete. At no time shall loads greater than design loads be applied to the component.

Care must be exercised to install component at proper bearing points, right side up, and properly braced. Read all notes hereon and obtain any design assistance indicated.

MiTek Industries, Inc. exercises no control and accepts no responsibility for the fabrication, handling, shipment and installation of components.

Miscellaneous Information

This data sheet and the information hereon is the property of MiTek Industries, Inc. and is not to be copied in whole or in part or used for unauthorized exploitation of the items disclosed hereon or in any other way disclosed or used for furnishing information to others.

The use of this component shall be specified by the designer of the complete structure.

Obtain all necessary code compliances, approvals and instructions from the designer of the complete structure before using this component.

If the design criteria listed above does not meet local building code requirements, DO NOT USE THIS DESIGN.

When this drawing is signed and sealed, MiTek Industries, 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.

Bracing Information

All lateral bracing specified is for bracing individual web members and must be installed.

Web braces where required are to be equally spaced along web length.

Chord members are assumed to be laterally restrained by sheathing, purlins or ceiling materials.

Restraint of lateral bracing and additional bracing for the overall structure is to be provided by the designer of the complete structure.

Connector Hardware

Connector plates are manufactured in accordance with TPI.

Plates must be installed on both faces of the lumber with teeth fully embedded.

Plates must be of the size, gauge and capacity shown.

Refer to the AutoTruss joint detail sheet for definitions of joint types and plate locations. Position plates symmetrically about joints unless other dimensions are shown.

Lumber

Lumber must bear a grade mark from an approved inspection bureau and must be of the size and species shown and equal to or better than the grade specified.

Design Criteria

The design and the materials specified are in substantial conformity with the latest revision of NDS, AITC and TPI.

DEC 12, 1994

IMPORTANT: READ ALL NOTES ON THIS DRAWING!

QUOT WA HOMES EC3422 STARK OH SS CO. 109 MILES AVE. S.W. CANTON , OHIO 44710

7 E3-19M
SCALE= 2/16

JT	TYPE	W	LEN	Y	X (MEMBER)
1	HL01	M20	3.0X	8.0	
2	IN11	M20	1.0X	4.0	
3	IN02	M20	3.0X	4.0	
4	PK12	M20	4.0X	5.0	
5	IN02	M20	3.0X	4.0	
6	IN11	M20	1.0X	4.0	
7	HL01	M20	3.0X	8.0	
8	IN02	M20	3.0X	4.0	
9	IN02	M20	3.0X	5.0	
10	IN02	M20	3.0X	5.0	
11	IN02	M20	3.0X	4.0	

SPLICES
9-10 SP10 M20 3.0X 5.0

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

CHORDS

MEMBR FR-TO	FORCE (LBS)	HOR DISP FT-IN-SX	SLOPE/12 DEPTH IN	LOAD (PLF)	MAXIMUM UNBRAC. LENGTH
1- 2	4539C	6- 1- 3	5.000	70.0	0.0
2- 3	4383C	5- 5- 6	5.000	70.0	0.0
3- 4	3312C	5- 5- 6	5.000	70.0	0.0
4- 5	3312C	5- 5- 6	-5.000	70.0	0.0
5- 6	4383C	5- 5- 6	-5.000	70.0	0.0
6- 7	4539C	6- 1- 3	-5.000	70.0	0.0
7- 8	4190T	7- 2- 4	0.000	60.0	10.0
8- 9	3375T	6- 6- 8	0.000	60.0	10.0
9-10	2556T	6- 6- 8	0.000	60.0	10.0
10-11	3375T	6- 6- 8	0.000	60.0	10.0
11- 1	4190T	7- 2- 4	0.000	60.0	10.0

WEBS

MEMBR FR-TO	FORCE (LBS)
2-11	366C
3-11	999T
3-10	771C
4-10	1197T
4- 9	1197T
5- 9	771C
5- 8	999T
6- 8	366C

CONC JT	LOAD LBS
1	93
7	93

CHORDS	SIZE	LUMBER DESCRIPTION
1- 4	2X 4	NO.2 MC15/19 SYP
4- 7	2X 4	NO.2 MC15/19 SYP
7- 1	2X 4	SEL.STR. MC15/19 SYP
ALL WEBS	2X 4	STUD S.P.F.

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 BUILDING DESIGNER.

DESIGN CRITERIA

TOP CH. LL= 25.0 PSF
DL= 10.0 PSF
BOT CH. LL= 20.0 PSF
DL= 10.0 PSF
TOTAL LOAD= 65.0 PSF

SPACING= 24 IN. C/C

INPUT DEFL. L/360

INCREASES(PER CENT)
LUMBER= 15 NAIL= 15
TCH LS= 15 BCH LS= 15

NAIL VALUES(PSI) GROSS

	CHORDS MAX	CHORDS MIN	WEBS MAX	WEBS MIN
M20	258	216	199	146

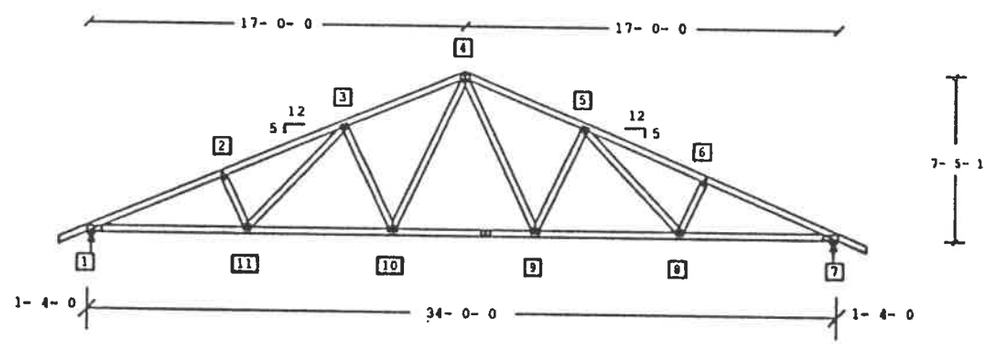
LEFT OVERHANG = 1- 4- 0
RIGHT OVERHANG= 1- 4- 0

PROVIDE FOR 25.8 LBS HORIZONTAL REACTION AT JOINT- 1

THIS TRUSS HAS BEEN DESIGNED FOR THE WIND LOADS GENERATED BY 80.0 M.P.H. WINDS AT 25.0 FT. ABOVE GROUND LEVEL, USING 7.0 P.S.F TOP CHORD DEAD LOAD AND 10.0 P.S.F BOTTOM CHORD DEAD LOAD, 100.0 MILES FROM HURRICANE OCEANLINE, ON A CATEGORY I ENCLOSED BUILDING, OF DIMENSIONS 99.0 BY 34.0 WITH EXPOSURE C (ASCE 7-88).
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.

94-1342-14



JT	GROSS REACT	BRG IN-SX
1	2303	4- 0
7	2303	4- 0

CAMBER= 0-2/8 HEEL = 4/16

STATE OF OHIO STANLEY C. ... REGISTERED CIVIL ENGINEER DEC 6 1994

Handling & Erection

Careless handling of components shall not be permitted. Temporary and permanent bracing for holding components plumb and for resisting lateral forces shall be designed and installed by others. No loads are to be applied to the component until after all bracing and fastenings are complete. At no time shall loads greater than design loads be applied to the component.

Care must be exercised to install component at proper bearing points, right side up, and properly braced. Read all notes hereon and obtain any design assistance indicated.

MiTek Industries, Inc. exercises no control and accepts no responsibility for the fabrication, handling, shipment and installation of components.

Miscellaneous Information

This data sheet and the information hereon is the property of MiTek Industries, Inc. and is not to be copied in whole or in part or used for unauthorized exploitation of the items disclosed herein or in any other way disclosed or used for furnishing information to others.

The use of this component shall be specified by the designer of the complete structure.

Obtain all necessary code compliances, approvals and instructions from the designer of the complete structure before using this component.

If the design criteria listed above does not meet local building code requirements, DO NOT USE THIS DESIGN.

When this drawing is signed and sealed, MiTek Industries, 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.

Bracing Information

All lateral bracing specified is for bracing individual web members and must be installed.

Web braces where required are to be equally spaced along web length.

Chord members are assumed to be laterally restrained by sheathing, purlins or ceiling materials.

Restraint of lateral bracing and additional bracing for the overall structure is to be provided by the designer of the complete structure.

Connector Hardware

Connector plates are manufactured in accordance with TPI.

Plates must be installed on both faces of the lumber with teeth fully embedded.

Plates must be of the size, gauge and capacity shown.

Refer to the AutoTruss joint detail sheet for definitions of joint types and plate locations. Position plates symmetrically about joints unless other dimensions are shown.

Lumber

Lumber must bear a grade mark from an approved inspection bureau and must be of the size and species shown and equal to or better than the grade specified.

Design Criteria

The design and the materials specified are in substantial conformity with the latest revision of NDS, AITC and TPI.

IMPORTANT: READ ALL NOTES ON THIS DRAWING!

7 F3-13
SCALE= 3/

JT	TYPE	W	LEN	Y	X (MEMBER)
1	HL01	M20	3.0X 8.0		
2	IN11	M20	1.0X 4.0		
3	IN02	M20	3.0X 4.0		
4	PK12	M20	4.0X 5.0		
5	IN02	M20	3.0X 4.0		
6	IN11	M20	1.0X 4.0		
7	HL01	M20	4.0X 6.0	0.25	
8	IN02	M20	3.0X 4.0		
9	IN02	M20	3.0X 5.0		
10	IN02	M20	3.0X 5.0		
11	IN02	M20	3.0X 4.0		

SPLICES
9-10 SP10 M20 3.0X 5.0

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

CHORDS MEMBR FR-TO	FORCE (LBS)	HOR DISP FT-IN-SX	SLOPE/12 DEPTH IN	LOAD (PLF)	MAXIMUM UNBRAC. LENGTH
1- 2	4539C	6- 1- 3	5.000	70.0	0.0
2- 3	4383C	5- 5- 6	5.000	70.0	0.0
3- 4	3312C	5- 5- 6	5.000	70.0	0.0
4- 5	3312C	5- 5- 6	-5.000	70.0	0.0
5- 6	4383C	5- 5- 6	-5.000	70.0	0.0
6- 7	4539C	6- 1- 3	-5.000	70.0	0.0
7- 8	4190T	7- 2- 4	0.000	60.0	10.0
8- 9	3375T	6- 6- 8	0.000	60.0	10.0
9-10	2556T	6- 6- 8	0.000	60.0	10.0
10-11	3375T	6- 6- 8	0.000	60.0	10.0
11- 1	4190T	7- 2- 4	0.000	60.0	10.0

WEBS MEMBR FR-TO	FORCE (LBS)
2-11	366C
3-11	999T
3-10	771C
4-10	1197T
4- 9	1197T
5- 9	771C
5- 8	999T
6- 8	366C

CONC LOAD JT	LBS
1	93

CHORDS	SIZE	LUMBER DESCRIPTION
1- 4	2X 4	NO.2 MC15/19 SYP
4- 7	2X 4	NO.2 MC15/19 SYP
7- 1	2X 4	SEL.STR. MC15/19 SYP
ALL WEBS	2X 4	STUD S.P.F.

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 BUILDING DESIGNER.

DESIGN CRITERIA
TOP CH. LL= 25.0 PSF
DL= 10.0 PSF
BOT CH. LL= 20.0 PSF
DL= 10.0 PSF
TOTAL LOAD= 65.0 PSF
SPACING= 24 IN. C/C
INPUT DEFL. L/360
INCREASES(PER CENT)
LUMBER= 15 NAIL= 15
TCH LS= 15 BCH LS= 15

NAIL VALUES(PSI) GROSS

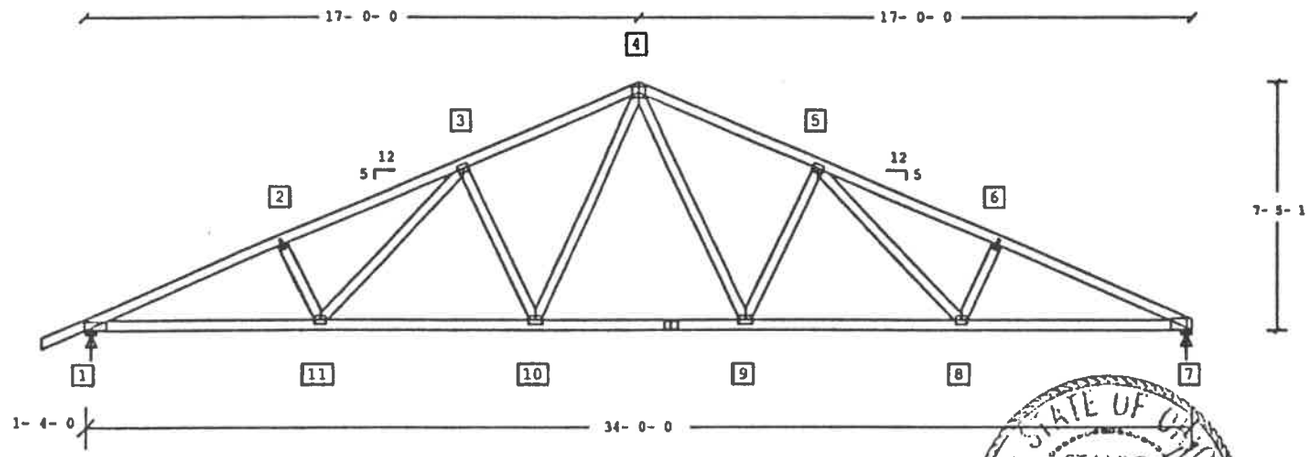
	CHORDS MAX	CHORDS MIN	WEBS MAX	WEBS MIN
M20	258	216	199	146

LEFT OVERHANG = 1- 4- 0

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.

94-1016-10



JT	GROSS REACT	BRG IN-SX
1	2303	4- 0
7	2210	4- 0

CAMBER= 0-2/8 HEEL = 4/16

0 1 2

STATE OF OHIO
STANLEY E. KOSMINCZUK
E-41024
REGISTERED
PROFESSIONAL ENGINEER
JAN 13, 1994

Handling & Erection

Careless handling of components shall not be permitted. Temporary and permanent bracing for holding components plumb and for resisting lateral forces shall be designed and installed by others. No loads are to be applied to the components until after all bracing and fastenings are complete. At no time shall loads greater than design loads be applied to the components.

Care must be exercised to install component at proper bearing points, right side up, and properly braced. Read all notes hereon and obtain any design assistance indicated.

MiTek Industries, Inc. exercises no control and accepts no responsibility for the fabrication, handling, shipment and installation of components.

Miscellaneous Information

This data sheet and the information hereon is the property of MiTek Industries, Inc. and is not to be copied in whole or in part or used for unauthorized exploitation of the items disclosed hereon or in any other way disclosed or used for furnishing information to others.

The use of this component shall be specified by the designer of the complete structure.

Obtain all necessary code compliances, approvals and instructions from the designer of the complete structure before using this component.

If the design criteria listed above does not meet local building code requirements, DO NOT USE THIS DESIGN.

When this drawing is signed and sealed, MiTek Industries, 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.

Bracing Information

All lateral bracing specified is for bracing individual web members and must be installed.

Web braces where required are to be equally spaced along web length.

Chord members are assumed to be laterally restrained by sheathing, purlins or ceiling materials.

Restraint of lateral bracing and additional bracing for the overall structure is to be provided by the designer of the complete structure.

Connector Hardware

Connector plates are manufactured in accordance with TPI.

Plates must be installed on both faces of the lumber with teeth fully embedded.

Plates must be of the size, gauge and capacity shown.

Refer to the AutoTruss joint detail sheet for dimensions of joint types and plate locations. Position plates symmetrically about joints unless other dimensions are shown.

Lumber

Lumber must bear a grade mark from an approved inspection bureau and must be of the size and species shown and equal to or better than the grade specified.

Design Criteria

The design and the materials specified are in substantial conformity with the latest revision of NDS, ATC and TPI.

IMPORTANT: READ ALL NOTES ON THIS DRAWING!

Job	Truss	Truss Type	Qty	Ply	
52825	C	HOWE EC 28822	6	1	WAYNE HOMES #52825 (RMD) 4-7-95

STARK TRUSS (ED) (RMD) 3.100 s Oct 14 1994 MiTek Industries, Inc. Tue Apr 11 1995 Page 1

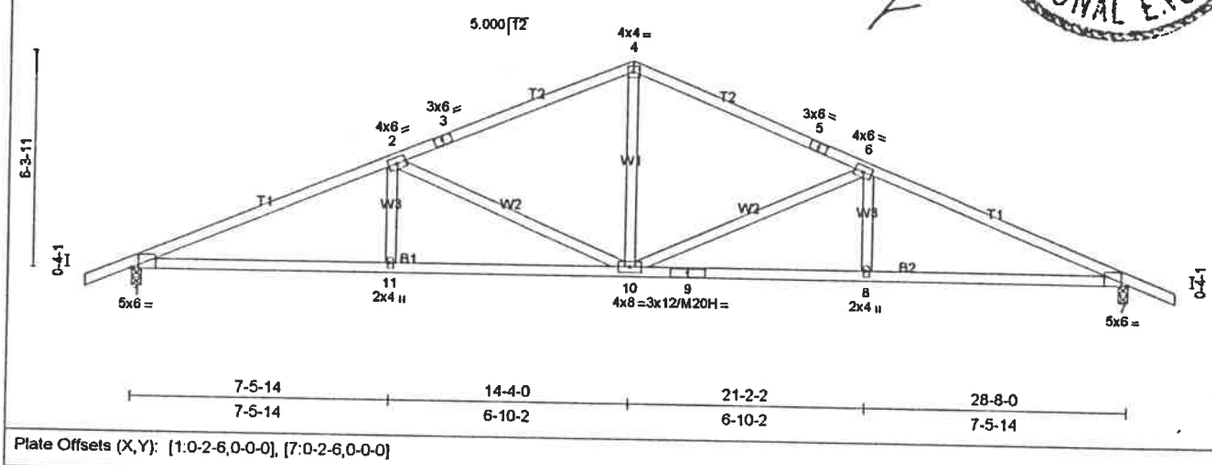


Plate Offsets (X,Y): [1:0-2-6,0-0-0], [7:0-2-6,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	(in)	(loc)	l/defl	PLATES	GRIP
TCLL	25.0	Plates Increase	1.15	TC	0.93	Vert(LL)	0.32	9/8	999	M20(20ga)	199/146
TCDL	10.0	Lumber Increase	1.15	BC	0.72	Vert(TL)	0.47	9/8	727	M20H(20ga)	193/162
BCLL	20.0	Rep Stress Incr	YES	WB	0.81	Horz(TL)	0.11	7	n/a		
BCDL	10.0	Code	BOCA			Min Length / LL defl = 360				Weight: 106 (lbs)	

LUMBER
TOP CHORD 2 X 4 SPF No.2 *Except*
T1 2 X 4 SPF 1650F 1.5E, T1 2 X 4 SPF 1650F 1.5E
BOT CHORD 2 X 4 SYP SS
WEBS 2 X 4 SPF Stud *Except*
W2 2 X 4 SPF 1650F 1.5E, W2 2 X 4 SPF 1650F 1.5E

BRACING
TOP CHORD Sheathed or 2-4-0 on center purlin spacing.
BOT CHORD Rigid ceiling directly applied, or 10-00-00 on center bracing.

REACTIONS (lbs/size) 1=1938/0-3-8, 7=1938/0-3-8
Max Horz 1=18(load case 3)
Max Uplift 1=-37(load case 4), 7=-37(load case 4)

FORCES
TOP CHORD 1-2=-3464, 2-3=-2360, 3-4=-2360, 4-5=-2360, 5-6=-2360, 6-7=-3464
BOT CHORD 7-8=3183, 8-9=3183, 9-10=3183, 10-11=3183, 1-11=3183
WEBS 2-11=426, 2-10=-1106, 4-10=1337, 6-10=-1106, 6-8=426

NOTES
1) This truss has been designed for the wind loads generated by 80.0 m.p.h. winds at 25.0 feet above ground level, using 7.0 p.s.f. top chord dead load and 10.0 p.s.f bottom chord dead load, 100.0 miles from hurricane oceanline, on a category I enclosed building, of dimensions 45.0 by 24.0 with exposure C (ASCE 7-88). Lumber Increase = 1.33, Plate Increase = 1.33. Both end verticals are exposed.

LOAD CASE(S) Standard

95-5079-3-52825

Job	Truss	Truss Type	Qty	Ply	
52825	B	HOWE ec28820s279	6	1	WAYNE HOMES #52825 (RMD) 4-7-95

STARK TRUSS (ED) (RMD) 3.100 s Oct 14 1994 MiTek Industries, Inc. Tue Apr 11 16:23:33 1995 Page 1

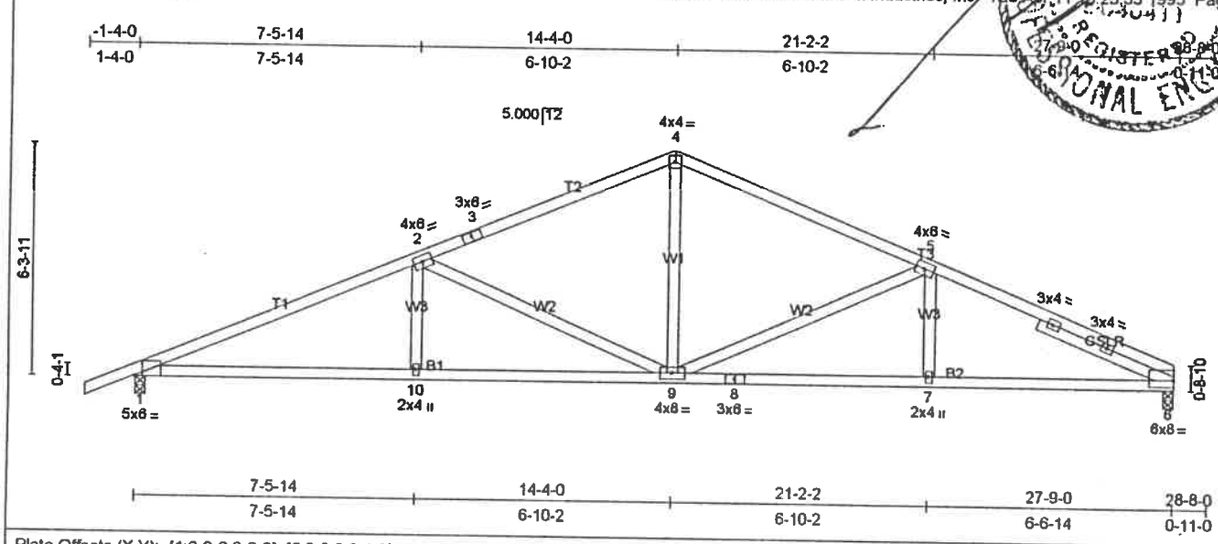


Plate Offsets (X,Y): [1:0-2-6,0-0-0], [6:0-0-0,0-1-3]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	(in)	(loc)	l/defl	PLATES	GRIP
TCLL	25.0	Plates Increase	1.15	TC	0.89	Vert(LL)	0.29	10/9	999	M20(20ga)	199/146
TCDL	10.0	Lumber Increase	1.15	BC	0.71	Vert(TL)	0.43	10/9	774		
BCLL	20.0	Rep Stress Incr	YES	WB	0.81	Horz(TL)	0.10	6	n/a		
BCDL	10.0	Code	BOCA			Min Length / LL defl = 360				Weight: 105 (lbs)	

LUMBER
TOP CHORD 2 X 4 SPF 1650F 1.5E
BOT CHORD 2 X 4 SYP SS
WEBS 2 X 4 SPF Stud *Except*
W2 2 X 4 SPF 1650F 1.5E, W2 2 X 4 SPF 1650F 1.5E
SLIDER Right 2 X 4 No.2 SPF 3-11-5

BRACING
TOP CHORD Sheathed or 2-5-11 on center purlin spacing.
BOT CHORD Rigid ceiling directly applied, or 10-00-00 on center bracing.

REACTIONS (lbs/size) 1=1878/0-3-8, 6=1785/0-3-8
Max Horz 1=35(load case 3)
Max Uplift 1=-36(load case 4), 6=-9(load case 4)

FORCES
TOP CHORD 1-2=-3313, 2-3=-2208, 3-4=-2208, 4-5=-2208, 5-6=-3103
BOT CHORD 6-7=2786, 7-8=2786, 8-9=2786, 9-10=3044, 1-10=3044
WEBS 2-10=426, 2-9=-1108, 4-9=1219, 5-9=-824, 5-7=398

NOTES
1) This truss has been designed for the wind loads generated by 80.0 m.p.h. winds at 25.0 feet above ground level, using 7.0 p.s.f. top chord dead load and 10.0 p.s.f bottom chord dead load, 100.0 miles from hurricane oceanline, on a category I enclosed building, of dimensions 45.0 by 24.0 with exposure C (ASCE 7-88). Lumber Increase = 1.33, Plate Increase = 1.33. Both end verticals are exposed.

LOAD CASE(S) Standard

95-5079-2-52825

Job	Truss	Truss Type		Qty	Ply	
52825	A	HOWE	EC28820	6	1	WAYNE HOMES #52825 (RMD)

STARK TRUSS (ED) (RMD)

3.100 s Oct 14 1994 MiTek Industries, Inc. Tue Apr 11 13:23:21 1995 Page 1

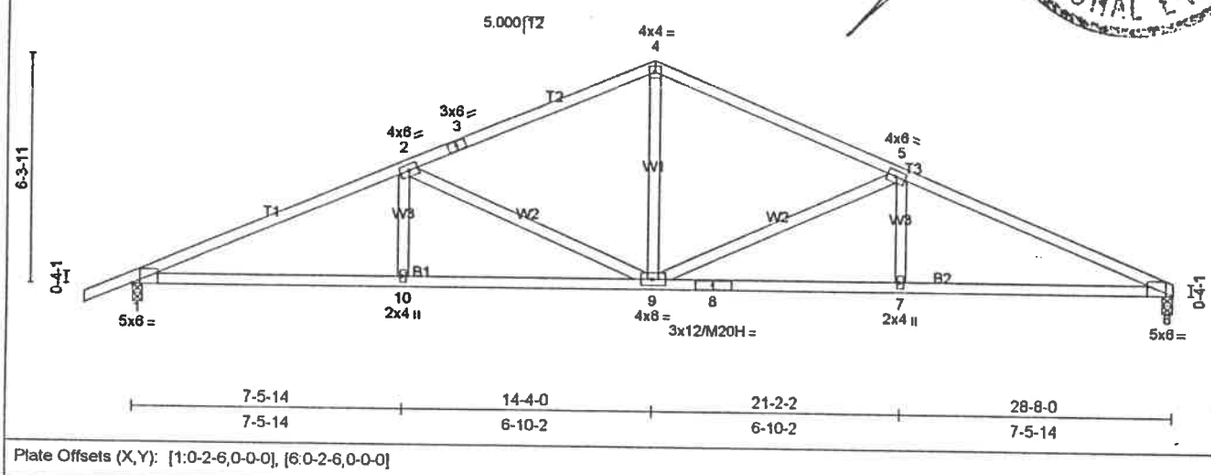


Plate Offsets (X,Y): [1:0-2-6,0-0-0], [6:0-2-6,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	(in)	(loc)	l/defl	PLATES	GRIP
TCLL	25.0	Plates Increase	1.15	TC	0.93	Vert(LL)	0.32	8/7	999	M20(20ga)	199/146
TCDL	10.0	Lumber Increase	1.15	BC	0.72	Vert(TL)	0.47	8/7	729	M20H(20ga)	193/162
BCLL	20.0	Rep Stress Incr	YES	WB	0.81	Horz(TL)	0.11	6	n/a		
BCDL	10.0	Code	BOCA			Min Length / LL defl = 360				Weight: 104 (lbs)	

LUMBER
TOP CHORD 2 X 4 SPF 1650F 1.5E *Except*
T2 2 X 4 SPF No.2
BOT CHORD 2 X 4 SYP SS
WEBS 2 X 4 SPF Stud *Except*
W2 2 X 4 SPF 1650F 1.5E, W2 2 X 4 SPF 1650F 1.5E

BRACING
TOP CHORD Sheathed or 2-4-0 on center purlin spacing.
BOT CHORD Rigid ceiling directly applied, or 10-00-00 on center bracing.

REACTIONS (lbs/size) 1=1938/0-3-8, 6=1871/0-3-8
Max Horz 1=35(load case 3)
Max Uplift 1=-37(load case 4), 6=-9(load case 4)

FORCES
TOP CHORD 1-2=-3464, 2-3=-2360, 3-4=-2360, 4-5=-2360, 5-6=-3464
BOT CHORD 6-7=3183, 7-8=3183, 8-9=3183, 9-10=3183, 1-10=3183
WEBS 2-10=426, 2-9=-1106, 4-9=1337, 5-9=-1106, 5-7=426

NOTES
1) This truss has been designed for the wind loads generated by 80.0 m.p.h. winds at 25.0 feet above ground level, using 7.0 p.s.f. top chord dead load and 10.0 p.s.f bottom chord dead load, 100.0 miles from hurricane oceanline, on a category I enclosed building, of dimensions 45.0 by 24.0 with exposure C (ASCE 7-88). Lumber Increase = 1.33, Plate Increase = 1.33. Both end verticals are exposed.

LOAD CASE(S) Standard

95-5079-1-52825

No. 489

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: 1460 Thershan Drive — Occupancy: Single Family

Owner of Property: Ronald Shafer — Address: 1460 Thershan Drive

Issued to: Same — Address:

Zoning: R-1 Single Family — Bldg. Permit No. 97236

Substantial qualifications of occupancy: City Code Compliant

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 17th day of August 1998

Signed: Brent N Damman
City Building Inspector

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

© GOES 179

QUOTE WA HOMES EE1611 STARK ' .S CO. OH 109 MILES AVE. S.W. CANTON , OHIO 44710

7 F3-19M
SCALE= 6/16

JT	TYPE	W	LEN	Y	X (MEMBER)
1	HL01	M20	3.0X	4.0	
2	IN11	M20	1.0X	4.0	
3	PK12	M20	4.0X	4.0	
4	IN11	M20	1.0X	4.0	
5	HL01	M20	3.0X	4.0	
6	IN02	M20	3.0X	4.0	
7	IN02	M20	3.0X	4.0	

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

CHORDS

MEMBR FR-TO	FORCE (LBS)	HOR DISP FT-IN-SX	SLOPE/12 DEPTH IN	LOAD (PLF)	MAXIMUM UNBRAC. LENGTH
1- 2	1383C	4- 2-13	7.000	70.0	0.0
2- 3	1261C	3- 9- 3	7.000	70.0	0.0
3- 4	1261C	3- 9- 3	-7.000	70.0	0.0
4- 5	1383C	4- 2-13	-7.000	70.0	0.0
5- 6	1195T	5- 5-14	0.000	60.0	10.0
6- 7	815T	5- 0- 5	0.000	60.0	10.0
7- 1	1195T	5- 5-14	0.000	60.0	10.0

WEBS

MEMBR FR-TO	FORCE (LBS)
2- 7	232C
3- 7	578T
3- 6	578T
4- 6	232C

CONC JT	LOAD LBS
1	67
5	67

CHORDS	SIZE	LUMBER DESCRIPTION
1- 3	2X 4	NO.2 MC15/19 SYP
3- 5	2X 4	NO.2 MC15/19 SYP
5- 1	2X 4	NO.2 MC15/19 SYP
ALL WEBS	2X 4	STUD S.P.F.

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 BUILDING DESIGNER.

DESIGN CRITERIA

TOP CH. LL= 25.0 PSF
DL= 10.0 PSF
BOT CH. LL= 20.0 PSF
DL= 10.0 PSF
TOTAL LOAD= 65.0 PSF

SPACING= 24 IN. C/C

INPUT DEFL. L/360

INCREASES(PER CENT)
LUMBER= 15 NAIL= 15
TCH LS= 15 BCH LS= 15

NAIL VALUES(PSI) GROSS

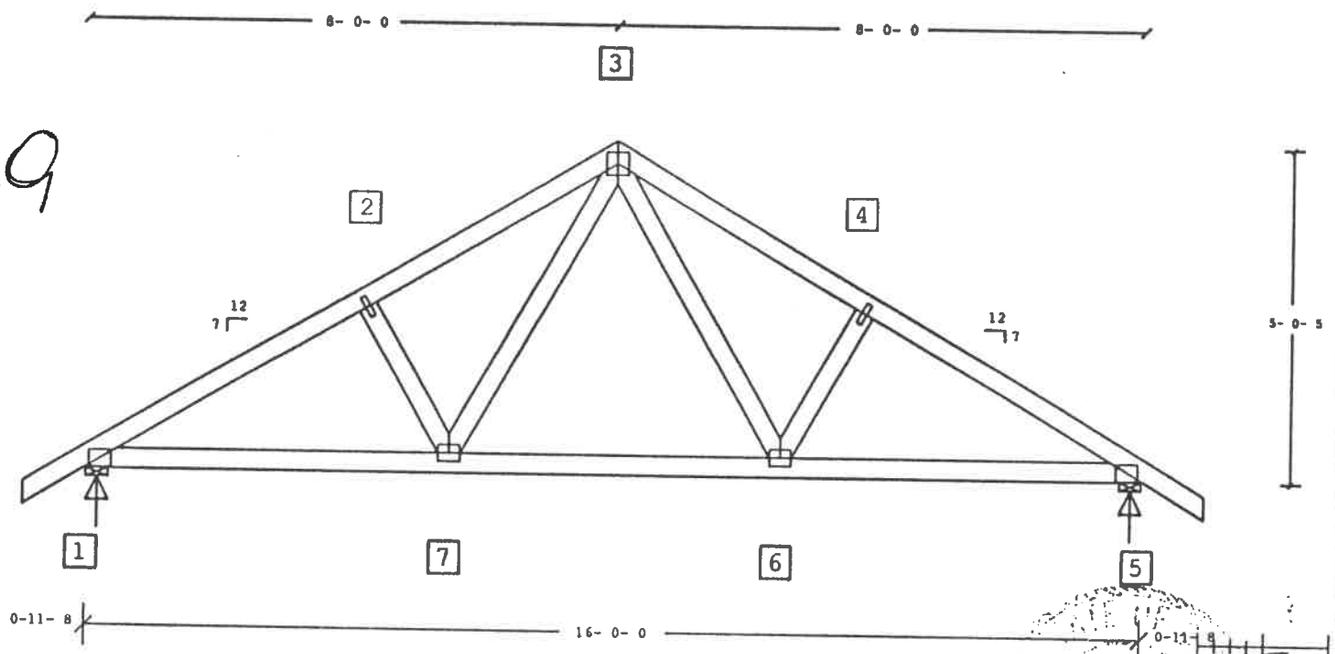
	CHORDS MAX	CHORDS MIN	WEBS MAX	WEBS MIN
M20	258	216	199	146

LEFT OVERHANG = 0-11- 8
RIGHT OVERHANG= 0-11- 8

PROVIDE FOR 33.5 LBS HORIZONTAL REACTION AT JOINT- 1

THIS TRUSS HAS BEEN DESIGNED FOR THE WIND LOADS GENERATED BY 80.0 M.P.H. WINDS AT 25.0 FT. ABOVE GROUND LEVEL, USING 7.0 P.S.F TOP CHORD DEAD LOAD AND 10.0 P.S.F BOTTOM CHORD DEAD LOAD, 100.0 MILES FROM HURRICANE OCEANLINE, ON A CATEGORY I ENCLOSED BUILDING, OF DIMENSIONS 99.0 BY 16.0 WITH EXPOSURE C (ASCE 7-88).
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.



94-1344-9

JT	GROSS REACT	BRG IN-SX
1	1107	4- 0
5	1107	4- 0

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

Handling & Erection

Careless handling of components shall not be permitted. Temporary and permanent bracing for holding components plumb and for resisting lateral forces shall be designed and installed by others. No loads are to be applied to the component until after all bracing and fastenings are complete. At no time shall loads greater than design loads be applied to the component.

Care must be exercised to install component at proper bearing points, right side up, and properly braced. Read all notes hereon and obtain any design assistance indicated.

MiTek Industries, Inc. exercises no control and accepts no responsibility for the fabrication, handling, shipment and installation of components.

Miscellaneous Information

This data sheet and the information hereon is the property of MiTek Industries, Inc. and is not to be copied in whole or in part or used for unauthorized exploitation of the items disclosed hereon or in any other way disclosed or used for furnishing information to others.

The use of this component shall be specified by the designer of the complete structure.

Obtain all necessary code compliances, approvals and instructions from the designer of the complete structure before using this component.

If the design criteria listed above does not meet local building code requirements, DO NOT USE THIS DESIGN.

When the drawing is signed and sealed, MiTek Industries, 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.

Bracing Information

All lateral bracing specified is for bracing individual web members and must be installed.

Web braces where required are to be equally spaced along web length.

Chord members are assumed to be laterally restrained by sheathing, purlins or ceiling materials.

Restraint of lateral bracing and additional bracing for the overall structure is to be provided by the designer of the complete structure.

Connector Hardware

Connector plates are manufactured in accordance with TPI.

Plates must be installed on both faces of the lumber with teeth fully embedded.

Plates must be of the size, gauge and capacity shown.

Refer to the AutoTruss joint detail sheet for definitions of joint types and plate locations. Position plates symmetrically about joints unless other dimensions are shown.

Lumber

Lumber must bear a grade mark from an approved inspection bureau and must be of the size and species shown and equal to or better than the grade specified.

Design Criteria

The design and the materials specified are in substantial conformity with the latest revision of NDS, AITC and TPI.

DEC 12, 1994

IMPORTANT: READ ALL NOTES ON THIS DRAWING!

QUOT WA HOMES EC3422 STARK OH SS CO. 109 MILES AVE. S.W. CANTON , OHIO 44710

7 F3-19M
SCALE= 2/16

JT	TYPE	W	LEN	Y	X (MEMBER)
1	HL01	M20	3.0X	8.0	
2	IN11	M20	1.0X	4.0	
3	IN02	M20	3.0X	4.0	
4	PK12	M20	4.0X	5.0	
5	IN02	M20	3.0X	4.0	
6	IN11	M20	1.0X	4.0	
7	HL01	M20	3.0X	8.0	
8	IN02	M20	3.0X	4.0	
9	IN02	M20	3.0X	5.0	
10	IN02	M20	3.0X	5.0	
11	IN02	M20	3.0X	4.0	

SPLICES
9-10 SP10 M20 3.0X 5.0

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

CHORDS

MEMBR FR-TO	FORCE (LBS)	HOR DISP FT-IN-SX	SLOPE/12 DEPTH IN	LOAD (PLF)	MAXIMUM UNBRAC. LENGTH
1- 2	4539C	6- 1- 3	5.000	70.0	0.0
2- 3	4383C	5- 5- 6	5.000	70.0	0.0
3- 4	3312C	5- 5- 6	5.000	70.0	0.0
4- 5	3312C	5- 5- 6	-5.000	70.0	0.0
5- 6	4383C	5- 5- 6	-5.000	70.0	0.0
6- 7	4539C	6- 1- 3	-5.000	70.0	0.0
7- 8	4190T	7- 2- 4	0.000	60.0	10.0
8- 9	3375T	6- 6- 8	0.000	60.0	10.0
9-10	2556T	6- 6- 8	0.000	60.0	10.0
10-11	3375T	6- 6- 8	0.000	60.0	10.0
11- 1	4190T	7- 2- 4	0.000	60.0	10.0

WEBS

MEMBR FR-TO	FORCE (LBS)
2-11	366C
3-11	999T
3-10	771C
4-10	1197T
4- 9	1197T
5- 9	771C
5- 8	999T
6- 8	366C

CONC JT	LOAD LBS
1	93
7	93

CHORDS	SIZE	LUMBER DESCRIPTION
1- 4	2X 4	NO.2 MC15/19 SYP
4- 7	2X 4	NO.2 MC15/19 SYP
7- 1	2X 4	SEL.STR. MC15/19 SYP
ALL WEBS	2X 4	STUD S.P.F.

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 BUILDING DESIGNER.

DESIGN CRITERIA

TOP CH. LL= 25.0 PSF
DL= 10.0 PSF
BOT CH. LL= 20.0 PSF
DL= 10.0 PSF
TOTAL LOAD= 65.0 PSF

SPACING= 24 IN. C/C

INPUT DEFL. L/360

INCREASES(PER CENT)
LUMBER= 15 NAIL= 15
TCH LS= 15 BCH LS= 15

NAIL VALUES(PSI) GROSS

	CHORDS MAX	CHORDS MIN	WEBS MAX	WEBS MIN
M20	258	216	199	146

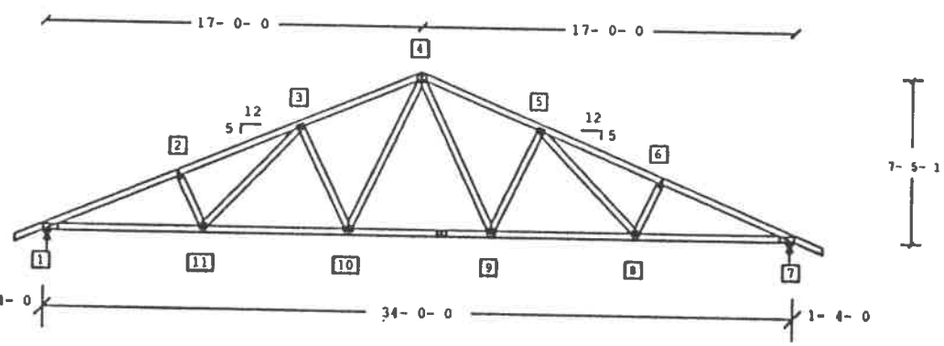
LEFT OVERHANG = 1- 4- 0
RIGHT OVERHANG= 1- 4- 0

PROVIDE FOR 25.8 LBS HORIZONTAL REACTION AT JOINT- 1

THIS TRUSS HAS BEEN DESIGNED FOR THE WIND LOADS GENERATED BY 80.0 M.P.H. WINDS AT 25.0 FT. ABOVE GROUND LEVEL, USING 7.0 P.S.F TOP CHORD DEAD LOAD AND 10.0 P.S.F BOTTOM CHORD DEAD LOAD, 100.0 MILES FROM HURRICANE OCEANLINE, ON A CATEGORY I ENCLOSED BUILDING, OF DIMENSIONS 99.0 BY 34.0 WITH EXPOSURE C (ASCE 7-88).
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.

94-1342-14



JT	GROSS REACT	BRG IN-SX
1	2303	4- 0
7	2303	4- 0

CAMBER= 0-2/8 HEEL = 4/16

STATE OF OHIO STANLEY C. ... REGISTERED PROFESSIONAL ENGINEER DEC 6 1994

Handling & Erection

Careless 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 others. No loads are to be applied to the components until after all bracing and fastenings are complete. At no time shall loads greater than design loads be applied to the components.

Care must be exercised to install component at proper bearing points, right side up, and properly braced. Read all notes hereon and obtain any design assistance indicated.

MiTek Industries, Inc exercises no control and accepts no responsibility for the fabrication, handling, shipment and installation of components.

Miscellaneous Information

The data sheet and the information hereon is the property of MiTek Industries, Inc. and is not to be copied in whole or in part or used for unauthorized exploitation of the items disclosed herein or in any other way disclosed or used for furnishing information to others.

The use of this component shall be specified by the designer of the complete structure.

Obtain all necessary code compliances, approvals and instructions from the designer of the complete structure before using this component.

If the design criteria listed above does not meet local building code requirements, DO NOT USE THIS DESIGN.

When the drawing is signed and sealed, MiTek Industries, 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.

Bracing Information

All lateral bracing specified is for bracing individual web members and must be installed.

Web braces where required are to be equally spaced along web length.

Chord members are assumed to be laterally restrained by sheathing, purlins or ceiling materials.

Restraint of lateral bracing and additional bracing for the overall structure is to be provided by the designer of the complete structure.

Connector Hardware

Connector plates are manufactured in accordance with TPI.

Plates must be installed on both faces of the lumber with teeth fully embedded.

Plates must be of the size, gauge and capacity shown.

Refer to the AutoTruss joint detail sheet for definitions of joint types and plate locations. Position plates symmetrically about joints unless other dimensions are shown.

Lumber

Lumber must bear a grade mark from an approved inspection bureau and must be of the size and species shown and equal to or better than the grade specified.

Design Criteria

The design and the materials specified are in substantial conformity with the latest revision of NDS, AITC and TPI.

IMPORTANT: READ ALL NOTES ON THIS DRAWING!

OH

7 F3-15
SCALE= 3/.

JT	TYPE	W	LEN	Y	X (MEMBER)
1	HL01 M20	3.0X	8.0		
2	IN11 M20	1.0X	4.0		
3	IN02 M20	3.0X	4.0		
4	PK12 M20	4.0X	5.0		
5	IN02 M20	3.0X	4.0		
6	IN11 M20	1.0X	4.0		
7	HL01 M20	4.0X	6.0	0.25	
8	IN02 M20	3.0X	4.0		
9	IN02 M20	3.0X	5.0		
10	INC2 M20	3.0X	5.0		
11	IN02 M20	3.0X	4.0		

SPLICES
9-10 SP10 M20 3.0X 5.0

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

CHORDS

MEMBR FR-TO	FORCE (LBS)	HOR DISP FT-IN-SX	SLOPE/12 DEPTH IN	LOAD (PLF)	MAXIMUM UNBRAC. LENGTH
1- 2	4539C	6- 1- 3	5.000	70.0	0.0
2- 3	4383C	5- 5- 6	5.000	70.0	0.0
3- 4	3312C	5- 5- 6	5.000	70.0	0.0
4- 5	3312C	5- 5- 6	-5.000	70.0	0.0
5- 6	4383C	5- 5- 6	-5.000	70.0	0.0
6- 7	4539C	6- 1- 3	-5.000	70.0	0.0
7- 8	4190T	7- 2- 4	0.000	60.0	10.0
8- 9	3375T	6- 6- 8	0.000	60.0	10.0
9-10	2556T	6- 6- 8	0.000	60.0	10.0
10-11	3375T	6- 6- 8	0.000	60.0	10.0
11- 1	4190T	7- 2- 4	0.000	60.0	10.0

WEBS

MEMBR FR-TO	FORCE (LBS)
2-11	366C
3-11	999T
3-10	771C
4-10	1197T
4- 9	1197T
5- 9	771C
5- 8	999T
6- 8	366C

CONC JT	LOAD LBS
1	93

CHORDS	SIZE	LUMBER DESCRIPTION
1- 4	2X 4	NO.2 MC15/19 SYP
4- 7	2X 4	NO.2 MC15/19 SYP
7- 1	2X 4	SEL.STR. MC15/19 SYP
ALL WEBS	2X 4	STUD S.P.F.

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 BUILDING DESIGNER.

DESIGN CRITERIA

TOP CH. LL= 25.0 PSF
DL= 10.0 PSF
BOT CH. LL= 20.0 PSF
DL= 10.0 PSF
TOTAL LOAD= 65.0 PSF

SPACING= 24 IN. C/C

INPUT DEFL. L/360

INCREASES(PER CENT)
LUMBER= 15 NAIL= 15
TCH LS= 15 BCH LS= 15

NAIL VALUES(PSI) GROSS

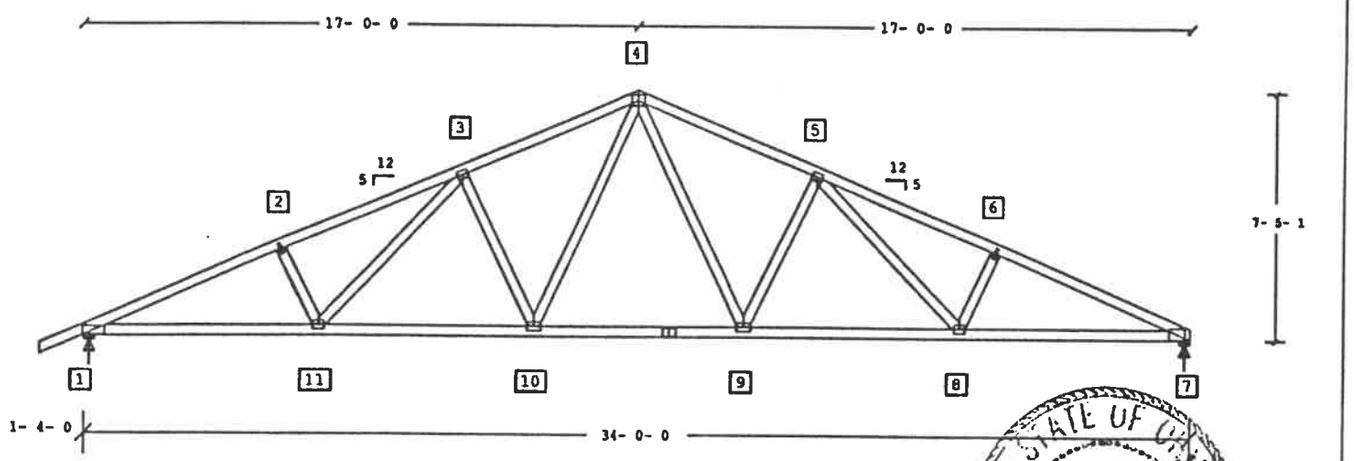
	CHORDS MAX	CHORDS MIN	WEBS MAX	WEBS MIN
M20	258	216	199	146

LEFT OVERHANG = 1- 4- 0

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.

94-1016-10



JT	GROSS REACT	BRG IN-SX
1	2303	4- 0
7	2210	4- 0

CAMBER= 0-2/8 HEEL = 4/16

0 1 2

STATE OF OHIO
STANLEY E. KOSTUNCZAK
REGISTERED PROFESSIONAL ENGINEER
JAN 19, 1996

Handling & Erection

Careless 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 others. No loads are to be applied to the components until after all bracing and fastenings are complete. At no time shall loads greater than design loads be applied to the components.

Care must be exercised to install component at proper bearing points, right side up, and properly braced. Read all notes hereon and obtain any design assistance indicated.

MiTek Industries, Inc. exercises no control and accepts no responsibility for the fabrication, handling, shipment and installation of components.

Miscellaneous Information

This data sheet and the information hereon is the property of MiTek Industries, Inc. and is not to be copied in whole or in part or used for unauthorized exploitation of the items disclosed herein or in any other way disclosed or used for furnishing information to others.

The use of this component shall be specified by the designer of the complete structure.

Obtain all necessary code compliances, approvals and instructions from the designer of the complete structure before using this component.

If the design criteria listed above does not meet local building code requirements, DO NOT USE THIS DESIGN.

When this drawing is signed and sealed, MiTek Industries, 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.

Bracing Information

All lateral bracing specified is for bracing individual web members and must be installed.

Web braces where required are to be equally spaced along web length.

Chord members are assumed to be laterally restrained by sheathing, purlins or ceiling materials.

Restraint of lateral bracing and additional bracing for the overall structure is to be provided by the designer of the complete structure.

Connector Hardware

Connector plates are manufactured in accordance with TPI.

Plates must be installed on both faces of the lumber with teeth fully embedded.

Plates must be of the size, gauge and capacity shown.

Refer to the AutoTruss joint detail sheet for definitions of joint types and plate locations. Position plates symmetrically about joints unless other dimensions are shown.

Lumber

Lumber must bear a grade mark from an approved inspection bureau and must be of the size and species shown and equal to or better than the grade specified.

Design Criteria

The design and the materials specified are in substantial conformity with the latest revision of NDS, AITC and TPI.

IMPORTANT: READ ALL NOTES ON THIS DRAWING!

Job	Truss	Truss Type	Qty	Ply	
52825	C	HOWE ec 28822	6	1	WAYNE HOMES #52825 (RMD) 4-7-95

STARK TRUSS (ED) (RMD)

3.100 s Oct 14 1994 MiTek Industries, Inc. Tue Apr 11 13:23:46 1995 Page 1

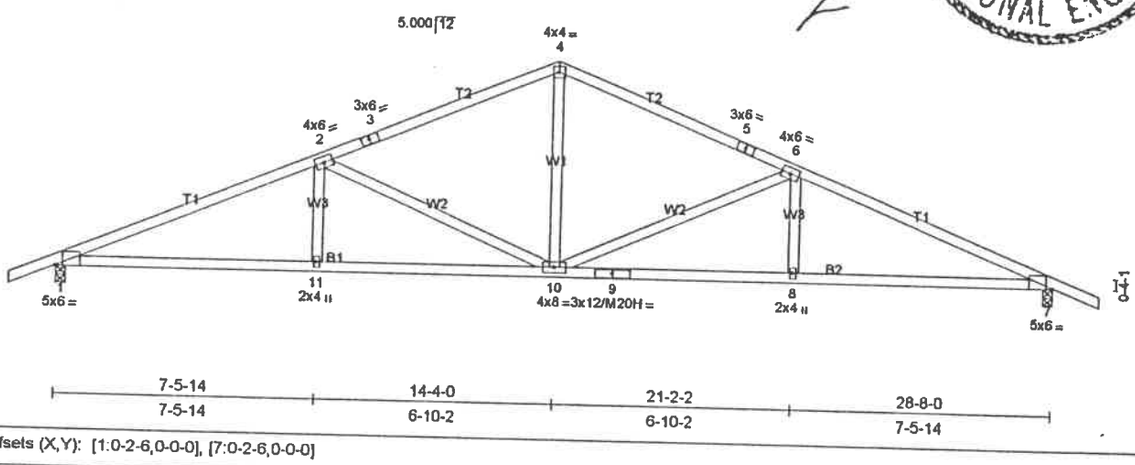


Plate Offsets (X,Y): [1:0-2-6,0-0-0], [7:0-2-6,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	(in)	(loc)	l/defl	PLATES	GRIP
TCLL	25.0	Plates Increase	1.15	TC	0.93	Vert(LL)	0.32	9/8	999	M20(20ga)	199/146
TCDL	10.0	Lumber Increase	1.15	BC	0.72	Vert(TL)	0.47	9/8	727	M20H(20ga)	193/162
BCLL	20.0	Rep Stress Incr	YES	WB	0.81	Horz(TL)	0.11	7	n/a		
BCDL	10.0	Code	BOCA			Min Length / LL defl = 360				Weight: 106 (lbs)	

LUMBER

TOP CHORD 2 X 4 SPF No.2 *Except*
T1 2 X 4 SPF 1650F 1.5E, T1 2 X 4 SPF 1650F 1.5E
BOT CHORD 2 X 4 SYP SS
WEBS 2 X 4 SPF Stud *Except*
W2 2 X 4 SPF 1650F 1.5E, W2 2 X 4 SPF 1650F 1.5E

BRACING

TOP CHORD Sheathed or 2-4-0 on center purlin spacing.
BOT CHORD Rigid ceiling directly applied, or 10-00-00 on center bracing.

REACTIONS (lbs/size) 1=1938/0-3-8, 7=1938/0-3-8
Max Horz 1=18(load case 3)
Max Uplift 1=-37(load case 4), 7=-37(load case 4)

FORCES

TOP CHORD 1-2=-3464, 2-3=-2360, 3-4=-2360, 4-5=-2360, 5-6=-2360, 6-7=-3464
BOT CHORD 7-8=3183, 8-9=3183, 9-10=3183, 10-11=3183, 1-11=3183
WEBS 2-11=426, 2-10=-1106, 4-10=1337, 6-10=-1106, 6-8=426

NOTES

1) This truss has been designed for the wind loads generated by 80.0 m.p.h. winds at 25.0 feet above ground level, using 7.0 p.s.f. top chord dead load and 10.0 p.s.f bottom chord dead load, 100.0 miles from hurricane oceanline, on a category I enclosed building, of dimensions 45.0 by 24.0 with exposure C (ASCE 7-88). Lumber Increase = 1.33, Plate Increase = 1.33. Both end verticals are exposed.

LOAD CASE(S) Standard

95-5079-3-52825

Job	Truss	Truss Type	Qty	Ply	
52825	B	HOWE ec28820s279	6	1	WAYNE HOMES #52825 (RMD) 4-7-95

STARK TRUSS (ED) (RMD)

3.100 s Oct 14 1994 MiTek Industries, Inc. Tue Apr 11 16:23:33 1995 Page 1

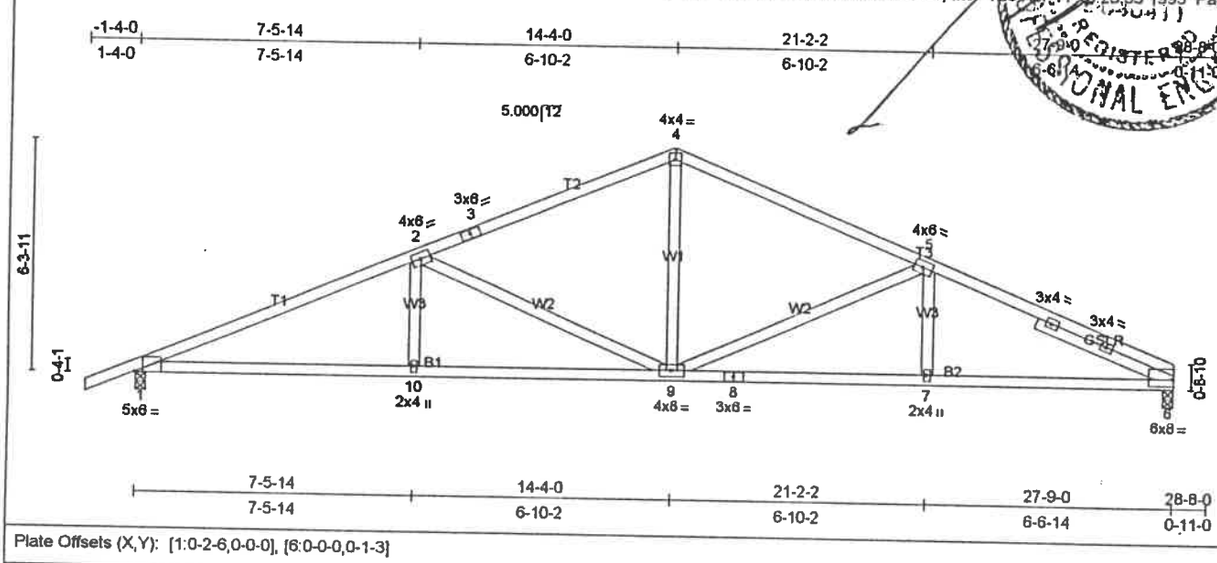


Plate Offsets (X,Y): [1:0-2-6,0-0-0], [6:0-0-0,0-1-3]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	(in)	(loc)	l/defl	PLATES	GRIP
TCLL	25.0	Plates Increase	1.15	TC	0.89	Vert(LL)	0.29	10/9	999	M20(20ga)	199/146
TCDL	10.0	Lumber Increase	1.15	BC	0.71	Vert(TL)	0.43	10/9	774		
BCLL	20.0	Rep Stress Incr	YES	WB	0.81	Horz(TL)	0.10	6	n/a		
BCDL	10.0	Code	BOCA			Min Length / LL defl = 360				Weight: 105 (lbs)	

LUMBER
TOP CHORD 2 X 4 SPF 1650F 1.5E
BOT CHORD 2 X 4 SYP SS
WEBS 2 X 4 SPF Stud *Except*
W2 2 X 4 SPF 1650F 1.5E, W2 2 X 4 SPF 1650F 1.5E
SLIDER Right 2 X 4 No.2 SPF 3-11-5

BRACING
TOP CHORD Sheathed or 2-5-11 on center purlin spacing.
BOT CHORD Rigid ceiling directly applied, or 10-00-00 on center bracing.

REACTIONS (lbs/size) 1=1878/0-3-8, 6=1785/0-3-8
Max Horz 1=35(load case 3)
Max Uplift 1=-36(load case 4), 6=-9(load case 4)

FORCES
TOP CHORD 1-2=-3313, 2-3=-2208, 3-4=-2208, 4-5=-2208, 5-6=-3103
BOT CHORD 6-7=2786, 7-8=2786, 8-9=2786, 9-10=3044, 1-10=3044
WEBS 2-10=426, 2-9=-1108, 4-9=1219, 5-9=-824, 5-7=398

NOTES
1) This truss has been designed for the wind loads generated by 80.0 m.p.h. winds at 25.0 feet above ground level, using 7.0 p.s.f. top chord dead load and 10.0 p.s.f bottom chord dead load, 100.0 miles from hurricane oceanline, on a category I enclosed building, of dimensions 45.0 by 24.0 with exposure C (ASCE 7-88). Lumber Increase = 1.33, Plate Increase = 1.33. Both end verticals are exposed.

LOAD CASE(S) Standard

95-5079-2-52825

Job	Truss	Truss Type	Qty	Ply	
52625	A	HOWE ec28820	6	1	WAYNE HOMES #52625 (RMD)

STARK TRUSS (ED) (RMD)

3.100 s Oct 14 1994 MiTek Industries, Inc. Mar 20,1995 13:23:21 1995 Page 1

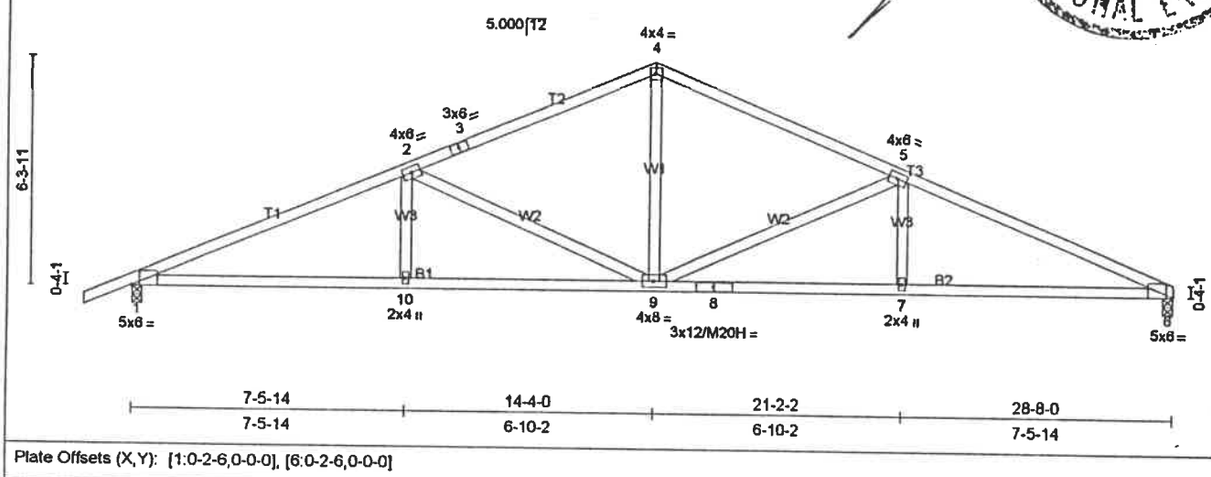


Plate Offsets (X,Y): [1:0-2-6,0-0-0], [6:0-2-6,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	(in)	(loc)	l/defl	PLATES	GRIP
TCLL	25.0	Plates Increase	1.15	TC	0.93	Vert(LL)	0.32	8/7	999	M20(20ga)	199/146
TCDL	10.0	Lumber Increase	1.15	BC	0.72	Vert(TL)	0.47	8/7	729	M20H(20ga)	193/162
BCLL	20.0	Rep Stress Incr	YES	WB	0.81	Horz(TL)	0.11	6	n/a		
BCDL	10.0	Code	BOCA			Min Length / LL defl = 360				Weight: 104 (lbs)	

LUMBER
TOP CHORD 2 X 4 SPF 1650F 1.5E *Except*
T2 2 X 4 SPF No.2
BOT CHORD 2 X 4 SYP SS
WEBS 2 X 4 SPF Stud *Except*
W2 2 X 4 SPF 1650F 1.5E, W2 2 X 4 SPF 1650F 1.5E

BRACING
TOP CHORD Sheathed or 2-4-0 on center purlin spacing.
BOT CHORD Rigid ceiling directly applied, or 10-00-00 on center bracing.

REACTIONS (lbs/size) 1=1938/0-3-8, 6=1871/0-3-8
Max Horz 1=35(load case 3)
Max Uplift 1=-37(load case 4), 6=-9(load case 4)

FORCES
TOP CHORD 1-2=-3464, 2-3=-2360, 3-4=-2360, 4-5=-2360, 5-6=-3464
BOT CHORD 6-7=3183, 7-8=3183, 8-9=3183, 9-10=3183, 1-10=3183
WEBS 2-10=426, 2-9=-1106, 4-9=1337, 5-9=-1106, 5-7=426

NOTES
1) This truss has been designed for the wind loads generated by 80.0 m.p.h. winds at 25.0 feet above ground level, using 7.0 p.s.f. top chord dead load and 10.0 p.s.f bottom chord dead load, 100.0 miles from hurricane oceanline, on a category I enclosed building, of dimensions 45.0 by 24.0 with exposure C (ASCE 7-88). Lumber Increase = 1.33, Plate Increase = 1.33. Both end verticals are exposed.

LOAD CASE(S) Standard

95-5079-1-52825

Table No. R-304.3a
MINIMUM THICKNESS AND ALLOWABLE DEPTH OF UNBALANCED FILL FOR UNREINFORCED MASONRY FOUNDATION WALLS[1,3] WHERE UNSTABLE SOIL OR GROUND WATER CONDITIONS DO NOT EXIST IN SEISMIC ZONES 0, 1 OR 2

FOUNDATION WALL CONSTRUCTION	NOMINAL THICKNESS,[2] INCHES	MAXIMUM DEPTH OF UNBALANCED FILL,[1] FEET
Masonry of Hollow Units, Ungrouted	8 10 12	4 5 6
Masonry of Solid Units	6 8 10 12	3 5 6 7
Masonry of Hollow or Solid Units, Fully Grouted	8 10 12	7 8 8
Rubble Stone	Foundation wall of rubble stone shall be at least 16 inches thick. Rough or random rubble shall not be used as foundations for walls exceeding 35 feet in height.	
Masonry of hollow units reinforced vertically with #4 bars and grout at 24 inches on center. Bars located not less than 4½ inches from pressure side of wall.	8	7

[1] Maximum depths of unbalanced fill may be increased with the approval of the building official when soil conditions warrant such increase. Unbalanced fill is the height of outside finish grade above the basement floor or inside grade.

[2] The actual thickness shall not be more than ½-inch less than the required nominal thickness specified in the table.

[3] The height between lateral supports shall not exceed 8 feet.

NAME Shafer
JOB# 1488
DATE
DIG DATE

City of Napoleon

BUILDING PERMIT CHECK LIST

~~WOOD~~ COUNTY:

✓ Application — need # of plumbing traps

✓ Comparison Wall Sheet

_____ Zoning permit or permit number

✓ Health or sewer permit or permit number

✓ (2) sets of prints

✓ (2) sets of truss specs

✓ Model Energy Code

Paid water / sewer receipts

(2) Site plan

~~COMMENTS:~~

✓ electrical layout

Plumbing isometric — called DeWese

heating layout — T/W Jamie 5/15/97

CK AMOUNT $_____ made payable to ~~Wood County Building Inspection~~ The City of Napoleon

APPLICATION FOR

Residential, Building, Electrical, Plumbing, Mechanical, and Demolition Permit
FROM - The City of Napoleon, Ohio, Building Department
255 West Riverview Avenue; P.O. Box 151; Napoleon, Ohio 43545 - Telephone (419) 592-4010

ENTRY NO. _____

PERMIT NO. _____ ISSUED _____

JOB LOCATION 1460 Thersham Dr.

LOT 59 Twin Oaks Sub.
(Subdivision or Legal Description)

ISSUED BY _____
(Building Official)

OWNER Ron and Patricia Shafer PHONE (419) 592-8346

ADDRESS 878 East Graceway, Napoleon, OH 43545

Builder AGENT Wayne Homes Inc PHONE (419) 655-2535

ADDRESS 6489 S. Dixie Hwy, Cygnet, OH 43413

USE: (X) Residential ( ) Commercial ( ) Industrial
( ) Other _____

WORK: (X) New ( ) Addition ( ) Replacement ( ) Remodel

ESTIMATED COST = $ 129,165.00

	Base	Plus	Total
( )Building	$ 261.00?	$ 4,508 garage	$
( )Electrical	$ 15.00	$ 60.00	$ 75.00
( )Plumbing	$ 9.00	$	$
( )Mechanical	$ 18.00	$	$
( )Demolition	$	$	$
( )Zoning	$	$	$
( )Sign	$	$	$
( )Water Tap	$	$	$
( )Sewer Tap	$	$	$
( )Temp Water	$	$	$
( )Temp Elec.	$	$	$

Additional Plan Review: Structure ____ Hours ____ Electric ____ Hours ____

TOTAL FEES . . . . . $ _____
Less Fees Paid . . . . . $ _____
BALANCE DUE . . . . . $ _____

ZONING INFORMATION

District	Lot Dimensions	Area	Front Yard	Side Yard	Rear Yard

Max Height	No. Pkg. Spaces	No. Ldg. Spaces	Max Cover	Petition or Appeal Required-Date

WORK INFORMATION

Building: Ground Floor Area 1704 sq. ft. Basement Floor Area 936 sq. ft.

Garage Floor Area 604 sq. ft. 2nd Floor Area 891 sq. ft. Other Porches 382 sq. ft.

Size: Length 74'0" Width 34'0"/50'0" Stories 2 Height 24'10"

Building Volume (for Demolition Permit) _____ cubic feet

Description of Work: Single family - wood frame - 2 story with attached garage

Wayne Homes Model Energy Code Worksheet

Building company:	Bowling Green	Model:	6x141
Job#:	1488	Date:	5/20/97
Address:	1460 Thersham Dr	Code Jurisdiction:	Napoleon
	Napoleon, Ohio	Prepared by:	Steve

Insulation specs R-38 ceiling,blue board, r-13 walls, r-10 bsmt drape, Sungate windows

Your House

HDD 6570

Code House

Roof Ceiling	Area	r-value	UA
Flat ceiling	1821	39.1	46.57289
Flat ceiling	0	39.1	0
Cath. Ceiling	0	37.5	0
Skylights	0	1	0
Floor Cantilever	42	32.9	1.276596
	0	1	0
Total Ua roof/ceiling	1863		47.84949

Area	1863
Max. U	0.026
Max. UA allow.	48.44

Gross Wall			
Exterior wall	1968	15.72	125.1908
Exterior wall/no drywall	0	15.27	0
Gar/House wall	320	13.17	24.29765
Gar/House wall w/o drywall	0	12.72	0
Floor joist	262	15.27	17.15783
Metal Doors	53.3	2.85	18.70175
Sliding Patio Door	77.6	3.1	25.03226
Window	289.45	2.63	110.057
Window	0	1	0
Window	0	1	0
2x6 wall	549	17.33	31.67917
		1	0
Total UA walls	3519.35		352.1165

Area	3519.35
Max. U	0.116
Max. UA allow.	408.24

Foundation/Floor			
Slab perim. (lfx depth)	0	1	0
Floor Over Garage	0	20.55	0
Basement Wall	1143	11.7	97.69231
Bsmt Wall/kneewall w/ drywa	0	9.42	0
Bsmt Wall/kneewall w/o dryw	0	11.7	0
Bsmt. window	8.1	1.92	4.21875
Other	0	1	0
Other	0	1	0
Total UA foundation/floor			101.9111

Area	U	UA
0	0	0
0	0.05	0
1143	0.095	108.585
0	0.095	0
0	0.095	0
8.1	0.095	0.7695
0	0	0
0	0	0
		109.35

Total UA Actual
Total must be less than or equal to code house 501.88

Total UA Allow. 566.04

Wayne Homes Model Energy Code Worksheet

Building company:	Bowling Green	Model:	6x141
Job#:	1488	Date:	5/20/97
Address:	1460 Thersham Dr	Code Jurisdiction:	Napoleon
	Napoleon, Ohio	Prepared by:	Steve

Insulation specs R-38 ceiling,blue board, r-13 walls, r-10 bsmt drape, Sungate windows

HDD 6570

Your House

Roof Ceiling	Area	r-value	UA
Flat ceiling	1821	39.1	46.57289
Flat ceiling	0	39.1	0
Cath. Ceiling	0	37.5	0
Skylights	0	1	0
Floor Cantilever	42	32.9	1.276596
	0	1	0
Total Ua roof/ceiling	1863		47.84949

Code House

Area	1863
Max. U	0.026
Max. UA allow.	48.44

Gross Wall			
Exterior wall	1968	15.72	125.1908
Exterior wall/no drywall	0	15.27	0
Gar/House wall	320	13.17	24.29765
Gar/House wall w/o drywall	0	12.72	0
Floor joist	262	15.27	17.15783
Metal Doors	53.3	2.85	18.70175
Sliding Patio Door	77.6	3.1	25.03226
Window	289.45	2.63	110.057
Window	0	1	0
Window	0	1	0
2x6 wall	549	17.33	31.67917
		1	0
Total UA walls	3519.35		352.1165

Area	3519.35
Max. U	0.116
Max. UA allow.	408.24

Foundation/Floor			
Slab perim. (lfx depth)	0	1	0
Floor Over Garage	0	20.55	0
Basement Wall	1143	11.7	97.69231
Bsmt Wall/kneewall w/ drywa	0	9.42	0
Bsmt Wall/kneewall w/o dryw	0	11.7	0
Bsmt. window	8.1	1.92	4.21875
Other	0	1	0
Other	0	1	0
Total UA foundation/floor			101.9111

Area	U	UA
0	0	0
0	0.05	0
1143	0.095	108.585
0	0.095	0
0	0.095	0
8.1	0.095	0.7695
0	0	0
0	0	0
		109.35

Total UA Actual
Total must be less than or equal to code house 501.88

Total UA Allow. 566.04

HAMMONTREE & ASSOCIATES, LTD.
5233 Stoneham Road
NORTH CANTON, OHIO 44720
Canton: (216) 499-8817 Akron: (216) 633-7274

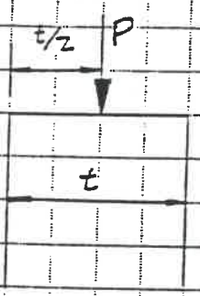
JOB WAYNE HOMES - PORTAGE BASEMENT
SHEET NO. 1 OF 2
CALCULATED BY CJP DATE 9/29/89
CHECKED BY FENTON DATE 9/29/89
SCALE

MOMENT COMPARISON BETWEEN 8" & 12" WALL.

- FIND LOAD ON WALL

USING A ONE FOOT WIDE STRIP OF WALL

$P = 20\,PSF_{FLOOR} \times 7' + 20\,PSF_{ROOF} \times 16' + 15\,PSF_{WALL} \times 8 = 580\ lbs/ft.$



P = 580 lbs + WEIGHT OF MASONRY

UNIT WGT OF MASONRY

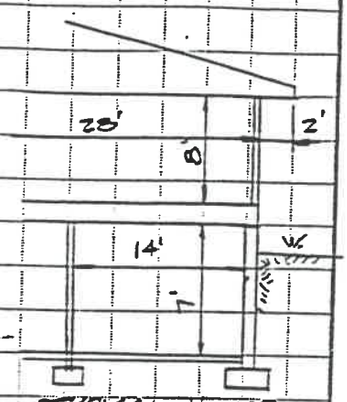
8" $W_W = 55\ lb/ft^2$, t = 7.625"

12" $W_W = 80\ lb/ft^2$, t = 11.625"

AT MID HEIGHT

$P_8 = 580 + 3.5'(55) = 772.5$ lbs

$P_{12} = 580 + 3.5'(80) = 860$ lbs



TYPICAL HOUSE

$M_8 = P_8 \times t/2$

$M_8 = \frac{772.5(7.625")}{2} = 2945$ in-lbs

$M_8 = 245$ ft-lbs

$M_{12} = P_{12} \times t/2$

$M_{12} = 860(11.625")/2 = 4999$ in-lbs

$M_{12} = 417$ ft-lbs

- REINFORCING FOR DIFFERENCE

$M_{DIF} = 417 - 245 = 172$ ft-lbs/ft

$f'_c = 2000$ psi

$f_y = 60{,}000$ psi

$d = 3.8125"$

$1.7(M_{DIF}) = \frac{(0.9)(A_s)(f_y)}{12}\left(d - \frac{(A_s)(f_y)}{2(.85)(f'_c)(12)}\right)$

$(1.7)(172) = \frac{(0.9)(A_s)(60{,}000)}{12}\left(3.8125 - \frac{(A_s)(60{,}000)}{(2)(.85)(2000)(12)}\right)$

$292.4 = 4500(A_s)\left[3.8125 - 1.470588235\,A_s\right]$

$6617.65\,A_s^2 - 17156.25\,A_s + 292.4 = 0$

QUADRA $\frac{-17{,}156.25 + \sqrt{(17{,}156.25)^2 - 4(6617.65)(292.4)}}{2(6617.65)}$

RE ' OR #4 @ 11'-4

REFORCING, #4 @ 8'-0"

June 2nd.

Jim Benedict

Ron Schafer
878 E. Graceway
Ann 592-8345

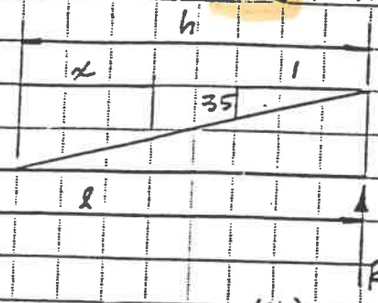
Site Specific

PRODUCT ZON-I NCSS, INC. Cambridge, Mass. 01471

HAMMONTREE & ASSOCIATES, LTD.
5233 Stoneham Road
NORTH CANTON, OHIO 44720
Canton: (216) 499-8817 Akron: (216) 633-7274

JOB WAYNE HOMES - FOREMOST BASEMENT
SHEET NO. 2 OF 2
CALCULATED BY CJP DATE 9/29/89
CHECKED BY FENTON DATE 9/29/89
SCALE

8" MASONRY WALL - DESIGN FOR MOMENT EXCEEDING UNREIN. CAPACITY
REINFORCING FOR VARIOUS DEPTHS OF UNBALENCED FILL
EQUIVALENT SOIL PRESSURE = 35 PSF/FT DEPTH



$$R_L = \frac{35h^2}{6l}$$

$R_L = 35x^2/2$ $\qquad M_u = [(l-h)+x]R_L - R_L\left(\frac{x}{3}\right)$

$x = \sqrt{\frac{2R_L}{35}}$

$x = \sqrt{\frac{h^2}{3l}}$ $\qquad M_u = \left[(l-h)+\sqrt{\frac{h^2}{3l}}\right]R_L - R_L\left(\frac{1}{3}\sqrt{\frac{h^3}{3l}}\right)$

$h=5,\ l=7$

$R_L = \frac{35(5)^3}{6(7)} = 104.167$ lbs

$h=6,\ l=7$ $\quad R_L = \frac{35(6)^3}{6(7)} = 180$ lbs

$h=7,\ l=7$ $\quad R_L = \frac{35(7)^3}{6(7)} = 285.83$ lbs

$$A_s = \frac{0.85d - \sqrt{(.85 \times d)^2 - \frac{68 M_u}{3 f'_c b}}}{f_y / f'_c b}$$

$M_u = 1.7(M)$
$f_y = 60{,}000$
$f'_c = 2000$
$b = 12"$
$d = 3.8125"$

h	APPLIED MOMENT	UNREINF. CAPACITY	REINF. CAPACITY	A_s	REINF.
5	377.76	245	132.76	.013	#4@15'-4" *
6	564.86	245	319.86	.032	#4@6'-8"
7	770.11	245	525.11	.053	2 #4@7'-4"

* WE RECOMMEND MINIMUM OF #4@8'-0"

PRODUCT 204-1 NEBS INC. Groton, Mass. 01471

WAYNE HOMES

Building better for less.

Bowling Green Office
6489 South Dixie Highway
State Route 25
Cygnet, Ohio 43413-9750
(419) 655-2535

Fax Number: (419) 655-3794

TO: Brent

FROM: Jack (Wayne Homes) DATE:

FAX NO: TIME:

TRANSMITTING 5 PAGES, INCLUDING COVER SHEET.

SUBJECT:

MESSAGE

To Tom Benedict / 3 pages

FACSIMILE TRANSMITTAL

DATE: 4/19/90 TIME: 3:50 ( ) A.M. (✓) P.M.

TO: NAME: DAVE LOGSDON
BUSINESS NAME: WAYNE HOMES
FACSIMILE NUMBER: PO BOX 113
BOWLING GREEN, OH 43402

FROM: HAMMONTREE AND ASSOCIATES, LIMITED
5233 STONEHAM ROAD
NORTH CANTON, OHIO 44720

TELEPHONE NUMBERS: (216) 499-8817 CANTON OFFICE
(216) 633-7274 AKRON OFFICE
(216) 499-0149 FACSIMILE

SENDER'S NAME: JOHN FENTON
PROJECT: BASEMENT IN HOYTVILLE CLAY
NUMBER OF PAGES (INCLUDING THIS PAGE): 3
BRIEF DESCRIPTION (OPTIONAL):

ADDITIONAL INSTRUCTIONS OR MESSAGES TO RECIPIENT:

BRENT will This work for you?

MOMENT COMPARISON BETWEEN 8" & 12" WALL.

- FIND LOAD ON WALL

USING A ONE FOOT WIDE STRIP OF WALL

$P = 20\,\text{PSF}_{\text{FLOOR}} \times 7' - 20\,\text{PSF}_{\text{ROOF}} \times 16' + 15\,\text{PSF}_{\text{WALL}} \times 8 = 580\ \text{lbs/ft.}$

P = 580 lbs + WEIGHT OF MASONRY

UNIT WGT OF MASONRY

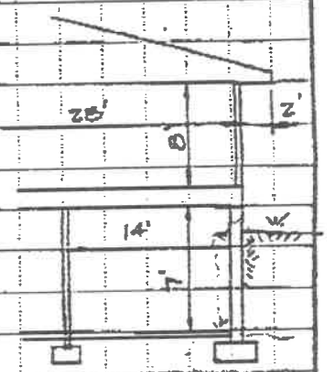
8" $W_w = 55\ \text{lb/ft}^2$, t = 7.625"

12" $W_w = 80\ \text{lb/ft}^2$, t = 11.625"

AT MID HEIGHT

$P_8 = 580 + 3.5'(55) = 772.5\ \text{lbs}$

$P_{12} = 580 + 3.5'(80) = 860\ \text{lbs}$



$M_8 = P_8 \times t/2$

$M_8 = \frac{772.5(7.625")}{2} = 2945\ \text{in-lbs}$

$M_8 = 245\ \text{ft-lbs}$

$M_{12} = P_{12} \times t/2$

$M_{12} = 860(11.625")/2 = 4999\ \text{in-lbs}$

$M_{12} = 417\ \text{ft-lbs}$

- REINFORCING FOR DIFFERENCE

$M_{DIF} = 417 - 245 = 172\ \text{ft-lbs/ft}$

$f'_c = 2000\ \text{psi}$

$f_y = 60{,}000\ \text{psi}$

$d = 3.5125"$

$1.7(M_{DIF}) = \frac{(0.9)(A_s)(f_y)}{12}\left(d - \frac{(A_s)(f_y)}{2(.85)(f'_c)(12)}\right)$

$(1.7)(172) = \frac{(0.9)(A_s)(60{,}000)}{12}\left(3.5125 - \frac{(A_s)(60{,}000)}{(2)(.85)(2000)(12)}\right)$

$292.4 = 4500(A_s)\left[3.5125 - 1.470588235\,A_s\right]$

$6617.65\,A_s^2 - 17{,}156.25\,A_s + 292.4 = 0$

QUADRATIC EQUATION $b = \frac{\sqrt{b^2 - 4ac}}{2a} = \frac{-17{,}156.25 + \sqrt{(-17{,}156.25)^2 - 4(6617.65)(292.4)}}{2(6617.65)}$

$A_s = 0.0172\ \text{in}^2/\text{ft}$ = #3 @ 6' OR #4 @ 11'-4

RECOMMENDED MINIMUM REINFORCING, #4 @ 8'-0"

HAMMONTREE & ASSOCIATES, LTD.
5233 Stoneham Road
NORTH CANTON, OHIO 44720
Canton: (216) 499-8817 Akron: (216) 633-7274
Marietta: (614) 373-7398 FAX: (216) 499-0149

JOB
SHEET NO. 2 OF 2
CALCULATED BY EAB DATE 4/19/90
CHECKED BY FENTON DATE 4/19/90
SCALE

MASONRY WALL - DESIGN FOR MOMENT EXCEEDING UNREINFORCED CAPACITY.
FIND REINFORCING FOR VARIOUS DEPTHS OF UNBALANCE FILL.
EQUIVALENT SOIL PRESSURE = 60 PSF/FT DEPTH (HOYTVILLE CLAY)

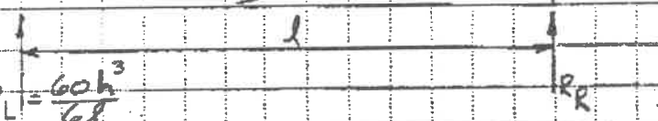
$f_y = 60{,}000$ PSI
$f'_c = 2{,}000$ PSI
$b = 12''$

FIND LOCATION OF $M_{MAX.}$

$R_L = 60x^2/2$

$x = \sqrt{\frac{2R_L}{60}}$

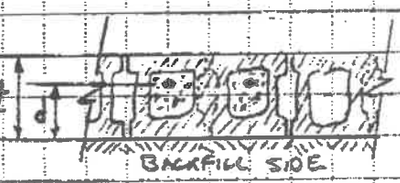
$x = \sqrt{\frac{h^3}{3l}}$



$R_L = \frac{60h^3}{6l}$

$M = (l - h + \frac{2}{3}x)R_L$

$$A_s = \frac{0.85d - \sqrt{(.85 \times d)^2 - \frac{68M_u}{3f'_c b}}}{f_y/f'_c b}$$



l (ft)	7	7	7	7	7	7
h (ft)	5	6	7	5	6	7
t (in)	8	8	8	12	12	12
d (in)	3.8	3.8	3.8	8	8	8
R_L (#/ft)	178.57	306.57	490	178.57	308.57	490
x (ft)	2.44	3.21	4.04	2.44	3.21	4.04
APPLIED M (ft lb/ft)	647.6	968.9	1319.7	647.6	968.9	1319.7
M_u = 1.7M	1100.92	1647.13	2243.5	1100.92	1647.13	2243.5
UNREINF. CAPACITY	245	245	245	417	417	417
REINF. CAP. M_R	855.90	1402.13	1998.5	683.92	1230.13	1826.5
REINF.	2 #4 @ 8'-0"	2 #5 @ 8'-0"	2 #5 @ 4'-8	1 #4 @ 8'-0"	1 #5 @ 8'-0"	2 #4 @ 8'-0"

4/19/90

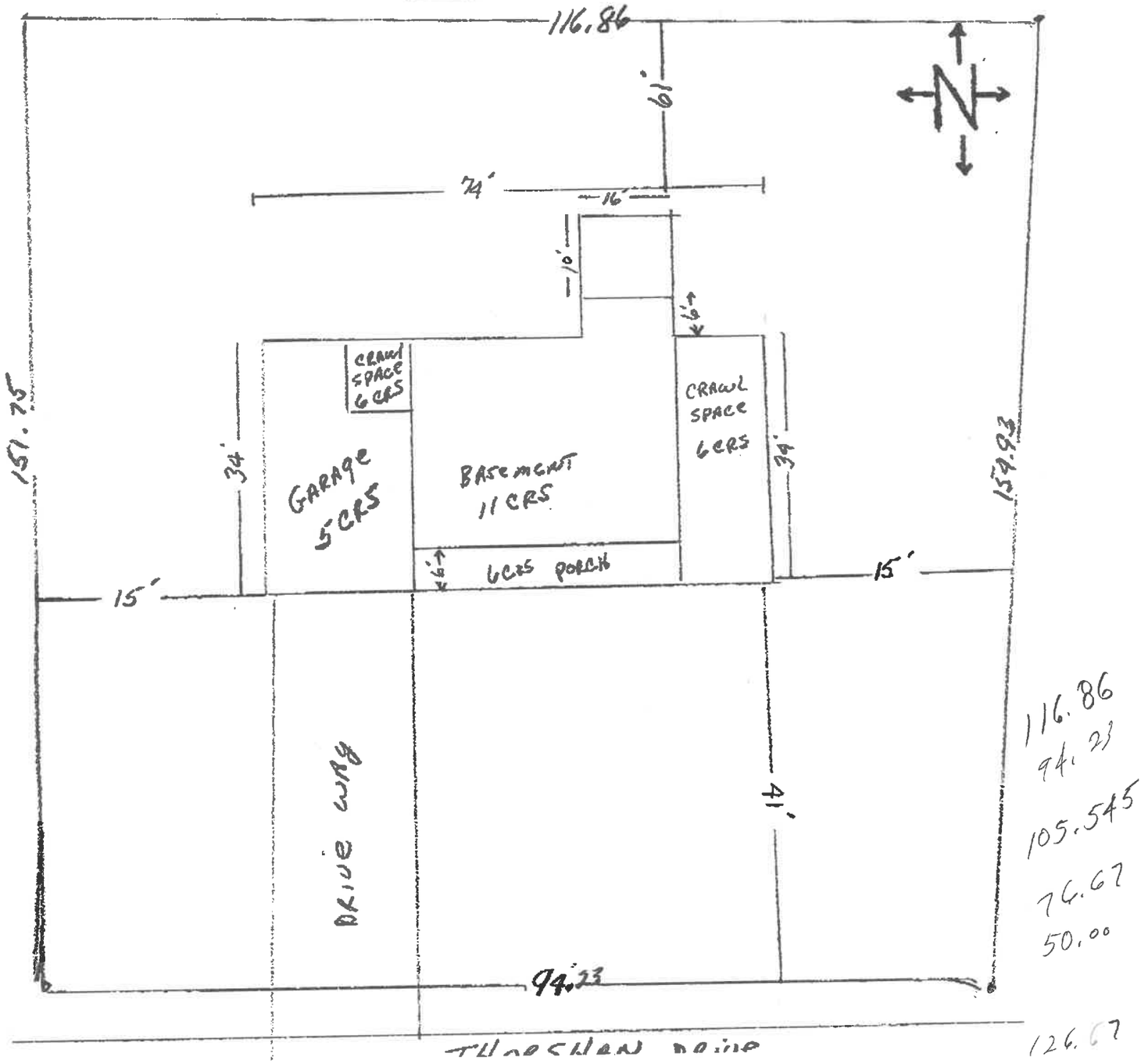
PRODUCT 204-1 NEBS INC. GREEN, OHIO 44371

Residential Building

Zoning Setbacks: Front 40' Side 15' Rear 15'

Deed or Plat Setbacks: Front 40' Side 15' Rear 15'

Verified by Homeowner _____



City of NAPOLEON, OHIO

255 WEST RIVERVIEW AVENUE, P.O. BOX 151
NAPOLEON, OHIO 43545-0151
(419) 592-4010
FAX (419) 599-8393

Fax Transmission

Mayor
Donald M. Stange

Members of Council
Michael J. DeWit, President
Dennis Filgor
James Hershberger
Sarah J. Peper
Travis B. Sheaffer
Char Weber
Terri A. Williams

City Manager
Marc S. Gerken, P.E.

Finance Director
Gregory J. Heath

Law Director
David M. Grahn

City Engineer
Adam C. Hoff, P.E.

To: Jack

Fax Number: (419) 655-3794

Number of Pages, Including This One: 6

From: Brent Damman

Date: 5-29-97 *Time:* 11:03 am

Operator:

Comments:

Please complete all forms, also provide a copy of each for all sub contractors as they will also need to register with us.

Thanks
Brent

Please call (419) 592-4010 if you have any trouble receiving this Transmission or you did not receive the number of pages shown above.

RESIDENTIAL PLAN CORRECTION SHEET

CITY OF NAPOLEON
255 West Riverview Ave.
Napoleon, Ohio 43545
(419) 592-4010

ADDENDUM TO PERMIT NO. _____
Owner Ronald Shafer
Contractor Wayne Homes
Location 1460 Thershan Dr.

Please note the items checked below and incorporate them into your plans as indicated:
[X] *Permit not yet issued, correct Plans and re-submit.*
[ ] *Permit issued, incorporate items during construction.*

GENERAL

___ Provide approved smoke detector(s) as req'd.
___ Provide 1/2" gypsum wallboard between dwelling and garage, on garage side.
___ Provide min. 1-3/8" solid wood door from garage to dwelling (or equal).
___ Submit fully dimensioned plot plan.
___ Provide min. of 1 - 3' 0" x 6' 8" exit door.
___ Provide min. 22" x 30" attic access opening.
___ Provide min. 18" x 24" crawl space access opening.
___ Provide approved sheathing or flashing behind masonry veneer.
___ Provide min. 15# underlayment on roof.
___ Provide adequate fireplace hearth.
___ Install factory built fireplaces/stoves according to manufacturer's instructions.
___ Terminate chimney 2' above roof or 2' above highest point of bldg within 10' of chimney.

LIGHT AND VENTILATION

___ Provide mechanical, exhaust or window in bathroom _____.
___ Provide min. _____ sq. in. net free area attic ventilation.
___ Provide min. _____ sq. in. net free area crawl space ventilation.

FOUNDATION

___ Min. depth of foundation below finished grade is 36".
___ Min. size of footer _____ " x _____ ".
X Provide anchor bolts, 1/2" @ 6' o.c. 1' from each corner. Embedded 7" in concrete and 15" in masonry. you will need 18" long anchor bolts.
___ Show size of basement columns.

FRAMING

___ Show size of wood girder in _____.
___ Provide design data for structural member in _____.
___ Floor joists undersized in _____.
___ Provide double joists under parallel bearing partitions.
___ Provide 1" x 4" let in corner bracing, approved sheathing, or equal.
X Show size of headers for openings over 4' wide including garage door opening.
___ Show size of members supporting porch roof.
___ Provide double top plate for all bearing partitions and exterior walls.
___ Provide design data for prefab wood truss.
___ Ceiling joists undersized in _____.
___ Roof rafters undersized in _____.

PLUMBING AND MECHANICAL

X Terminate all exhaust systems to outside air.
X Insulate ducts in unheated areas.
X Provide backflow prevention device on all hose bibs.
X Terminate pressure and temperature relief valve drain in an approved manner.
X Provide dishwasher drain with approved air gap device.

EGRESS WINDOWS

X All bedroom windows shall have a min. net clear opening width of 20" and a min. net clear height of 24".
X First floor bedrooms windows shall have a min. net clear opening of 5.0 s.f.. Second floor bedroom windows shall have a min. net clear opening of 5.7 s.f.

ELECTRICAL

X Show location of service entrance panel and service equipment panel.
___ G.F.C.I. req'd. on temporary electric.
X Outdoor, bathroom, and garage recepticles shall be protected by G.F.C.I.
X Max. number of recepticles permitted on a G.F.C.I. circuit shall be 10 for 20 A. circuits and 7 for 15 A. circuits.
X Refrigerators, microwaves, washers, disposal, furnace and air conditioners shall be on separate circuits.

INSPECTIONS

The following indicated inspections are req'd. The owner or his agent shall contact the City Bldg. Dept. at least 24 hrs. prior to the time the inspection is to be made.

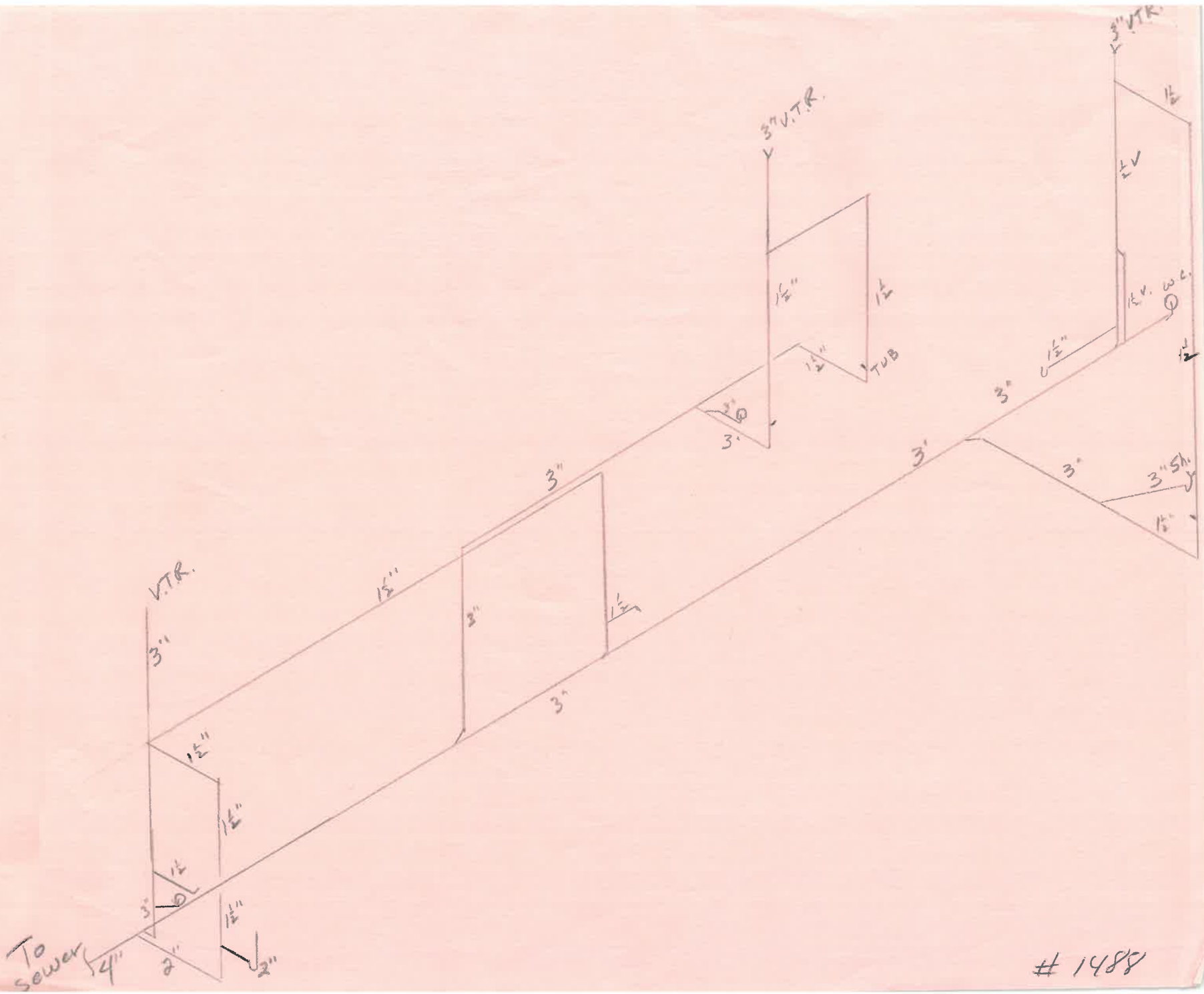
X Footer & setbacks
X Foundation
X Plumbing rough-in
X Plumbing - final
X Electrical service
___ Other _____
X Electrical rough-in
X Electrical - final
X Building sewer
X HVAC rough-in
X Final building

Additional corrections/comments: Show stairway detail including the spacing between vertical members.
Soffit ventilation + rafter baffles?
Need HVAC plan + layout.
Attic ventilation will need to comply to City standards as provided in the enclosed brochure.

The approval of Plans and Specifications does not permit the violation of any Section of the Building Code or other City Ordinance. This addendum is attached to Permit No. _____ and made a part thereof.

Date _____ *( ) approved* X *disapproved Checked by* _____

PLANCORR.SAM05/03/95


3" V.T.R.
3" V.T.R.
V.T.R.
1½"
3"
1½"
3"
1½"
3"

MOMENT COMPARISON BETWEEN 8" & 12" WALL.

- FIND LOAD ON WALL

USING A ONE FOOT WIDE STRIP OF WALL

$P = 20\,PSF \times 7' + 20\,PSF \times 16' + 15\,PSF \times 8 = 580\ lbs/ft.$

(FLOOR) (ROOF) (WALL)

P = 580 lbs + WEIGHT OF MASONRY

UNIT WGT OF MASONRY

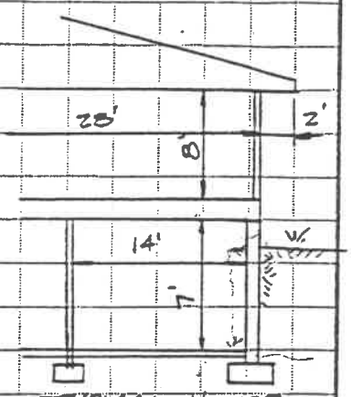
8" $W_w = 55\ lb/ft^2$, $t = 7.625"$

12" $W_w = 80\ lb/ft^2$, $t = 11.625"$

AT MID HEIGHT

$P_8 = 580 + 3.5'(55) = 772.5\ lbs$

$P_{12} = 580 + 3.5'(80) = 860\ lbs$



TYPICAL HOUSE

$M_8 = P_8 \times t/2$

$M_8 = \frac{772.5(7.625")}{2} = 2945\ in\text{-}lbs$

$M_8 = 245\ ft\text{-}lbs$

$M_{12} = P_{12} \times t/2$

$M_{12} = 860(11.625")/2 = 4999\ in\text{-}lbs$

$M_{12} = 417\ ft\text{-}lbs$

- REINFORCING FOR DIFFERENCE

$M_{DIF} = 417 - 245 = 172\ ft\text{-}lbs/ft$

$f'_c = 2000\ psi$

$f_y = 60{,}000\ psi$

$d = 3.8125"$

$$1.7(M_{DIF}) = \frac{(0.9)(A_s)(f_y)}{12}\left(d - \frac{(A_s)(f_y)}{2(.85)(f'_c)(12)}\right)$$

$$(1.7)(172) = \frac{(0.9)(A_s)(60{,}000)}{12}\left(3.8125 - \frac{(A_s)(60{,}000)}{(2)(.85)(2000)(12)}\right)$$

$$292.4 = 4500(A_s)\left[3.8125 - 1.470588235\,A_s\right]$$

$$6617.65\,A_s^2 - 17{,}156.25\,A_s + 292.4 = 0$$

QUADRATIC EQUATION $\frac{b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-17{,}156.25 + \sqrt{(17{,}156.25)^2 - 4(6617.65)(292.4)}}{2(6617.65)}$

$A_s = 0.0172\ in^2/ft$ = #3 @ 6' OR #4 @ 11'-4

RECOMMENDED MINIMUM REINFORCING, #4 @ 8'-0"

PRODUCT 204-1 NCSS INC. Boston, Mass. 01471

WAYNE HOMES
Building better for less.

FAX COVER SHEET

CORPORATE OFFICE
6370 MT. PLEASANT RD NW
N. CANTON, OHIO 44720
Phone (330) 499-1541
Fax (330) 499-0421

TO:

NAME: JACK

COMPANY:

FAX #:

PAGES (INCLUDING COVER): 3

FROM:

NAME: DENNIS

DATE: 5/29/97

TIME: 9:30

SUBJECT: ENGINEERING

MESSAGE:

HERE ARE THE SEALED DESIGNS FOR REINFORCED BASMENT WALLS. PLEASE NOTICE THAT ONE IS FOR 8" WALLS AND THE OTHER IS FOR 12" WALLS. IF YOU HAVE ANY QUESTIONS PLEASE CALL

DENNIS

A PROFESSIONAL ENGINEERING COMPANY

OFF. 216/493-7300
HOME 216/494-3339
FAX 216/493-8953
CAR 216/495-4131

John W. Fenton, P.E.
PRINCIPAL

CIVIL • STRUCTURAL • DESIGN/BUILD • PLANNING
SURVEYING • CONSTRUCTION MANAGEMENT • TURNKEY PROJECTS

MARTINDALE PROFESSIONAL BLDG. - SUITE E
4125 MARTINDALE AVE. CANTON, OHIO 44705

JOB WAYNE HOMES - BASEMENT WALL REINFORCING
SHEET NO. 1 OF 1
CALCULATED BY FENTON DATE 10/8/93
CHECKED BY DATE
SCALE

REINFORCING FOR BENDING MOMENT EXCEEDING UNREINFORCED CAPACITY OF 8" BLOCK WALL

STATE OF OHIO JOHN W. FENTON E-034742 REGISTERED PROFESSIONAL ENGINEER 10/8/93

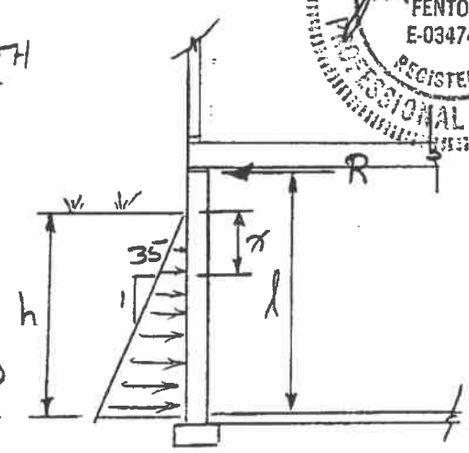
EQUIVALENT FLUID PRESSURE OF SOIL = 35 PSF/FT DEPTH

$R = \frac{35h^3}{6l}$, MAX. MOMENT AT $x = \sqrt{\frac{h^3}{3l}}$

MAX. APPLIED MOMENT, M_A

$$M_A = \frac{35h^3}{6l}\left(l - h + \frac{2}{3}\sqrt{\frac{h^3}{3l}}\right)$$

MOMENT IN UNREINFORCED WALL DUE TO ALLOWABLE UNBALANCED FILL OF 4', $M_{UR} = 222$ ft lb/ft



DESIGN CRITERIA
LOAD FACTOR = 1.7, $f_y = 60{,}000$ psi, $f'_c = 2000$ psi, $d = 3.8125''$

NO. OF COURSES	l	h	x	R	M_A	M_{UR}	REINFORCED CAPACITY	A_s (in^2/ft)	GRADE 60 REINFORCING
11	7'	4	1.75	53.3	222	222	0	0	NOT REQUIRED
		5	2.44	104.2	378	222	156	0.025	1 #4 @ 8'-0
		6	3.21	180.0	565	222	343	0.034	2 #4 @ 8'-0
		7	4.04	285.8	770	222	548	0.055	2 #4 @ 7'-4
12	7'-8"	5	2.33	95.1	401	222	179	0.025	1 #4 @ 8'-0
		6	3.06	164.4	610	222	388	0.039	2 #4 @ 8'-0
		7	3.86	261.0	846	222	624	0.063	2 #4 @ 6'-0
		7.67	4.43	342.9	1012	222	790	0.079	2 #4 @ 4'-8
13	8'-4"	5	2.24	87.5	422	222	200	0.025	1 #4 @ 8'-0
		6	2.94	151.2	649	222	427	0.043	2 #4 @ 8'-0
		7	3.70	240.1	913	222	691	0.069	2 #4 @ 5'-4
		8	4.53	358.4	1201	222	979	0.099	2 #4 @ 4'-0

A PROFESSIONAL ENGINEERING COMPANY

OFF. 216/493-7300
HOME 216/494-3339
FAX 216/493-8953
CAR 216/495-4131

John W. Fenton, P.E.
PRINCIPAL

CIVIL • STRUCTURAL • DESIGN/BUILD • PLANNING
SURVEYING • CONSTRUCTION MANAGEMENT • TURNKEY PROJECTS

MARTINDALE PROFESSIONAL BLDG. - SUITE E
4125 MARTINDALE AVE. CANTON, OHIO 44705

JOB WAYNE HOMES - BASEMENT WALL REINFORCING
SHEET NO. 1 OF 1
CALCULATED BY FENTON DATE 11/26/93
CHECKED BY _____ DATE _____
SCALE _____

REINFORCING FOR BENDING MOMENT EXCEEDING UNREINFORCED CAPACITY OF 12" BLOCK WALL

STATE OF OHIO
JOHN W. FENTON
E-034742
REGISTERED PROFESSIONAL ENGINEER
11/26/93

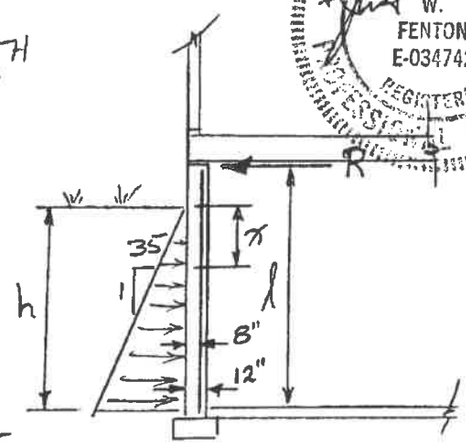
EQUIVALENT FLUID PRESSURE OF SOIL = 35 PSF/FT DEPTH

$R = \frac{35h^3}{6l}$, MAX. MOMENT AT $x = \sqrt{\frac{h^3}{3l}}$

MAX. APPLIED MOMENT, M_A

$$M_A = \frac{35h^3}{6l}\left(l - h + \frac{2}{3}\sqrt{\frac{h^3}{3l}}\right)$$

MOMENT IN UNREINFORCED WALL DUE TO ALLOWABLE UNBALANCED FILL OF 6' AT 30 PSF/FT PRESSURE. M_{UR} = 484 FT LB/FT



DESIGN CRITERIA
LOAD FACTOR = 1.7, f_y = 60,000 psi, f'_c = 2000 psi, d = 8"

INCLUDES LOAD FACTOR

NO. OF COURSES	l	h	x	R	M_A	M_{UR}	REINFORCED CAPACITY	A_s (in^2/ft)	GRADE 60 REINFORCING
11	7'	4	1.75	53.3	222	484	0	0	NOT REQUIRED
		5	2.44	104.2	378	484	0	0	NOT REQUIRED
		6	3.21	180.0	565	484	476.5	0.013	1 #4@8'-0
		7	4.04	285.8	770	484	825.0	0.023	1 #4@8'-0
12	7'-8"	5	2.33	95.1	401	484	0	0	NOT REQUIRED
		6	3.06	164.4	610	484	553.0	0.015	1 #4 @ 8'-0
		7	3.86	261.0	846	484	954.2	0.026	1 #4 @ 7'-4
		7.67	4.43	342.9	1012	484	1236.4	0.034	1 #4 @ 5'-4
13	8'-4"	5	2.24	87.5	422	484	0	0	NOT REQUIRED
		6	2.94	151.2	649	484	619.3	0.017	1 #4 @ 8'-0
		7	3.70	240.1	913	484	1068.2	0.030	1 #4 @ 6'-8
		8	4.53	358.4	1201	484	1557.7	0.044	2 #4 @ 8'-0

NOTE: POSITION BAR AT INSIDE FACE AND FILL REINFORCED CORES WITH PEA-GRAVEL CONCRETE.

CHAPTER 5
FLOORS

Deletion of Bridging 195 CABO

SECTION 501
GENERAL

501.1 Application. The provisions of this chapter shall control the design and construction of the floors for all buildings. The use of materials or methods of construction not specified in this chapter accomplishing the purposes intended by this code and approved by the building official in accordance with Section 108 shall be accepted as complying with this code.

501.2 Requirements. Floor construction shall be capable of accommodating all loads imposed according to Section 301 and transmitting the resulting loads imposed according to structural elements.

SECTION 502
FLOOR FRAMING

502.1 General. Load-bearing dimension lumber for joists, beams and girders shall conform to DOC PS 20-70 and to other applicable standards or grading rules and shall be so identified by a grade mark or certificate of inspection issued by an approved agency. The grade mark or certificate shall provide adequate information to determine F_b, the allowable stress in bending, and E, the modulus of elasticity.

502.1.1 Preservation-treated lumber. Preservatively treated dimension lumber shall also be identified by the quality mark of an approved agency.

502.1.2 Blocking and subflooring. Blocking shall be a minimum of Utility grade lumber. Subflooring may be a minimum of Utility grade lumber or No. 4 Common grade boards.

502.1.3 End jointed lumber. Approved end-jointed lumber may be used interchangeably with solid-sawn members of the same species and grade.

502.2 Design and construction. Floors of wood construction shall be designed and constructed in accordance with the provisions of this chapter and Figure 502.2.

502.3 Allowable spans. Joists, girders and floor sheathing shall comply with Sections 502.3.1 through 502.3.3 and Section 503.

502.3.1 Allowable joist spans. The clear span of floor joists shall not exceed the values set forth in Tables 502.3.1a and 502.3.1b. The modulus of elasticity, E, and the actual stress in bending, F_b, shown in the tables shall not exceed the values specified in Tables 502.3.1c and 502.3.1d listed at the end of this chapter. The values for F_b, specified as "repetitive member use" may be used when floor joists are spaced not more than 24 inches (610 mm) on center.

502.3.2 Joists under bearing partitions. Joists under parallel bearing partitions shall be doubled or a beam of adequate size to support the load shall be provided. Double joists which are separated to permit the installation of piping or vents shall be solid blocked spaced not more than 4 feet (1219 mm) on center.

502.3.3 Allowable girder spans. The allowable spans of girders shall not exceed the values set forth in Tables 502.3.3a and 502.3.3b.

502.4 Bearing. The ends of each joist, beam or girder shall have not less than $1^1/_2$ inches (38 mm) of bearing on wood or metal and not less than 3 inches (76 mm) on masonry except where supported on a 1-inch-by-4-inch (25 mm by 102 mm) ribbon strip and nailed to the adjacent stud or by the use of approval joist hangers.

502.4.1 Floor systems. Floor systems having joists framing from opposite sides over a bearing support shall be tied together by lapping joists a minimum of 3 inches (76 mm) or with a wood or metal splice, or by continuity of floor sheathing overlapping the ends of joist at least 3 inches (76 mm), or by other approved methods.

502.4.2 Joist framing. Joists framing into the side of a wood girder shall be supported by approved framing anchors or on ledger strips not less than nominal 2 inches by 2 inches (51 mm by 51 mm).

502.5 Lateral restraint at supports. Joists shall be supported laterally at the ends by full-depth solid blocking not less than 2 inches (51 mm) in thickness; or by attachment to a header, band or rim joist, or to an adjoining stud; or shall be otherwise provided with lateral support to prevent rotation. Such lateral support is not required over intermediate supports such as center girders or bearing walls.

502.5.1 Bridging. Joists having a depth-to-thickness ratio exceeding 6 to 1 based on nominal dimensions shall be supported laterally by solid blocking, diagonal bridging (wood or metal), or a continuous 1-inch-by-3-inch (25 mm by 76 mm) strip nailed across the bottom of joists perpendicular to joists at intervals not exceeding 10 feet (3048 mm).

502.6 Drilling and notching. Notches in the top or bottom of joists shall not exceed one-sixth the depth of the joist and shall not be located in the middle third of the span. Where joists are notched on the ends for a ledger, the notch shall not exceed one-fourth the joist depth. Cantilevered joists shall not be notched unless the reduced section properties and lumber defects are considered in the design.

502.7 Holes. Holes drilled or bored in joists shall be within 2 inches (51 mm) of the top or bottom of joists, and their diameter shall not exceed one-third the depth of the joist.

502.8 Fastening. Floor framing shall be nailed in accordance with Table 602.3a. Where posts and beam or girder construction is used to support floor framing, positive connections shall be provided to ensure against uplift and lateral displacement.

FAX TRANSMISSION

TO: Brent Damon

COMPANY: City of Napoleon

FAX NUMBER: 599-8393

FROM: PAT JOHNSON

DATE: 6-16-97

SUBJECT: Schafer Home Lot 59 Twin Oaks

PROJECT NO.: 97-2221

NO. OF PAGES: 1 (not including transmittal)

ORIGINAL TO FOLLOW: _____ YES ✓ NO

If these items do not arrive as noted, please call our office at the number below.

★ ★ ★ Please remember to photocopy these documents ★ ★ ★
for your permanent records

COMMENTS: Final Layout of House on Lot 59 Twin Oaks 3rd Add.

Feller, Finch & Associates, Inc.
Engineers • Surveyors
1683 Woodlands Dr. • P.O. Box 68 • Maumee, Ohio 43537-0068
(419) 893-3680
FAX (419) 893-2982

To Tom Benedict / 3 pages

FACSIMILE TRANSMITTAL

DATE: 4/19/90 TIME: 3:50 ( ) A.M. (✓) P.M.

TO: NAME: DAVE LOGSDON
BUSINESS NAME: WAYNE HOMES
FACSIMILE NUMBER: PO BOX 113
BOWLING GREEN, OH 43402

FROM: HAMMONTREE AND ASSOCIATES, LIMITED
5233 STONEHAM ROAD
NORTH CANTON, OHIO 44720

TELEPHONE NUMBERS: (216) 499-8817 CANTON OFFICE
(216) 633-7274 AKRON OFFICE
(216) 499-0149 FACSIMILE

Faxed To Brent 5-28-91

SENDER'S NAME: JOHN FENTON
PROJECT: BASEMENT IN HOYTVILLE CLAY
NUMBER OF PAGES (INCLUDING THIS PAGE): 3
BRIEF DESCRIPTION (OPTIONAL):

ADDITIONAL INSTRUCTIONS OR MESSAGES TO RECIPIENT:

BRENT will THIS WORK FOR YOU?

WAYNE HOMES

Building better for less.

Bowling Green Office
6489 South Dixie Highway
State Route 25
Cygnet, Ohio 43413-9750
(419) 655-2535

Fax Number: (419) 655-3794

TO: Brent

FROM: Jack (Wayne Homes) **DATE:**

FAX NO: **TIME:**

TRANSMITTING 5 **PAGES, INCLUDING COVER SHEET.**

SUBJECT:

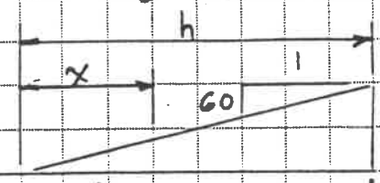
MESSAGE

called - 6-30-97 9:54am Reemphasized the need for contractor registration forms.

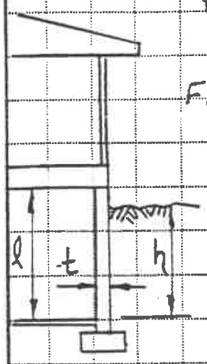
HAMMONTREE & ASSOCIATES, LTD.
5233 Stoneham Road
NORTH CANTON, OHIO 44720
Canton: (216) 499-8817 Akron: (216) 633-7274
Marietta: (614) 373-7398 FAX: (216) 499-0149

JOB WAYNE HOMES - BASEMENT IN HOYTVILLE CLAY
SHEET NO. 2 OF 2
CALCULATED BY EAB DATE 4/19/90
CHECKED BY FENTON DATE 4/19/90
SCALE

MASONRY WALL - DESIGN FOR MOMENT EXCEEDING UNREINFORCED CAPACITY.
FIND REINFORCING FOR VARIOUS DEPTHS OF UNBALANCE FILL.
EQUIVALENT SOIL PRESSURE = 60 PSF/FT DEPTH (HOYTVILLE CLAY)



$f_y = 60{,}000$ PSI
$f'_c = 2{,}000$ PSI
$b = 12''$



FIND LOCATION OF $M_{MAX.}$

$R_L = 60x^2/2$

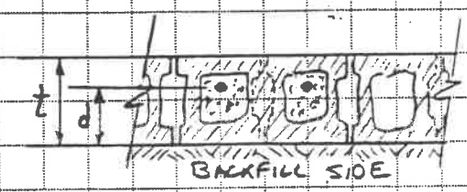
$x = \sqrt{\frac{2R_L}{60}}$

$x = \sqrt{\frac{h^3}{3l}}$

$R_L = \frac{60h^3}{6l}$

$M = (l - h + \frac{2}{3}x)R_L$

$$A_s = \frac{0.85d - \sqrt{(.85 \times d)^2 - \frac{68M_R}{3f'_c b}}}{f_y/f'_c b}$$



l (ft)	7	7	7	7	7	7
h (ft)	5	6	7	5	6	7
t (in)	8	8	8	12	12	12
d (in)	3.8	3.8	3.8	8	8	8
R_L (#/ft)	178.57	308.57	490	178.57	308.57	490
x (ft)	2.44	3.21	4.04	2.44	3.21	4.04
APPLIED M (ft lb/ft)	647.6	968.9	1319.7	647.6	968.9	1319.7
Mu = 1.7M	1100.92	1647.13	2243.5	1100.92	1647.13	2243.5
UNREINF. CAPACITY	245	245	245	417	417	417
REINF. CAP. M_R	855.90	1402.13	1998.5	683.92	1230.13	1826.5
REINF.	2 #4 @ 8'-0"	2#5 @8'-0"	2#5 @4'-8	1 #4 @ 8'-0"	1 #5 @ 8'-0"	2#4 @8'-0"

4/19/90

PRODUCT 204-1 NEBS Inc., Groton, Mass. 01471.

Description of Work: _____

MECHANICAL: Contractor Hohler Heating and Cooling, Inc. Phone (330) 863-0432

Address 7109 Alliance Rd., Malvern, Ohio 44644 ESTIMATED COST = $ 5,000.

HEATING SYSTEM - (✓)Forced Air ( )Gravity ( )Hot Water ( )Steam ( )Unit Heaters ( )Radiant ( )Baseboard

TYPE OF FUEL - ( )Electric (✓)Natural Gas ( )Propane ( )Wood ( )Coal ( )Solar ( )Geothermal Other _____

NUMBER OF HEAT ZONES = _____ HOT WATER - ( )One (1) Pipe ( )Two (2) Pipes ( )Series Loop

ELECTRIC HEAT - Number of Circuits _____ Number of Furnaces 1 Number of Hot Air Runs 24

Number of Hot Water Radiators _____ Total Heat Loss 80,152. Rated Capacity of Furnace/Boiler 110,000.

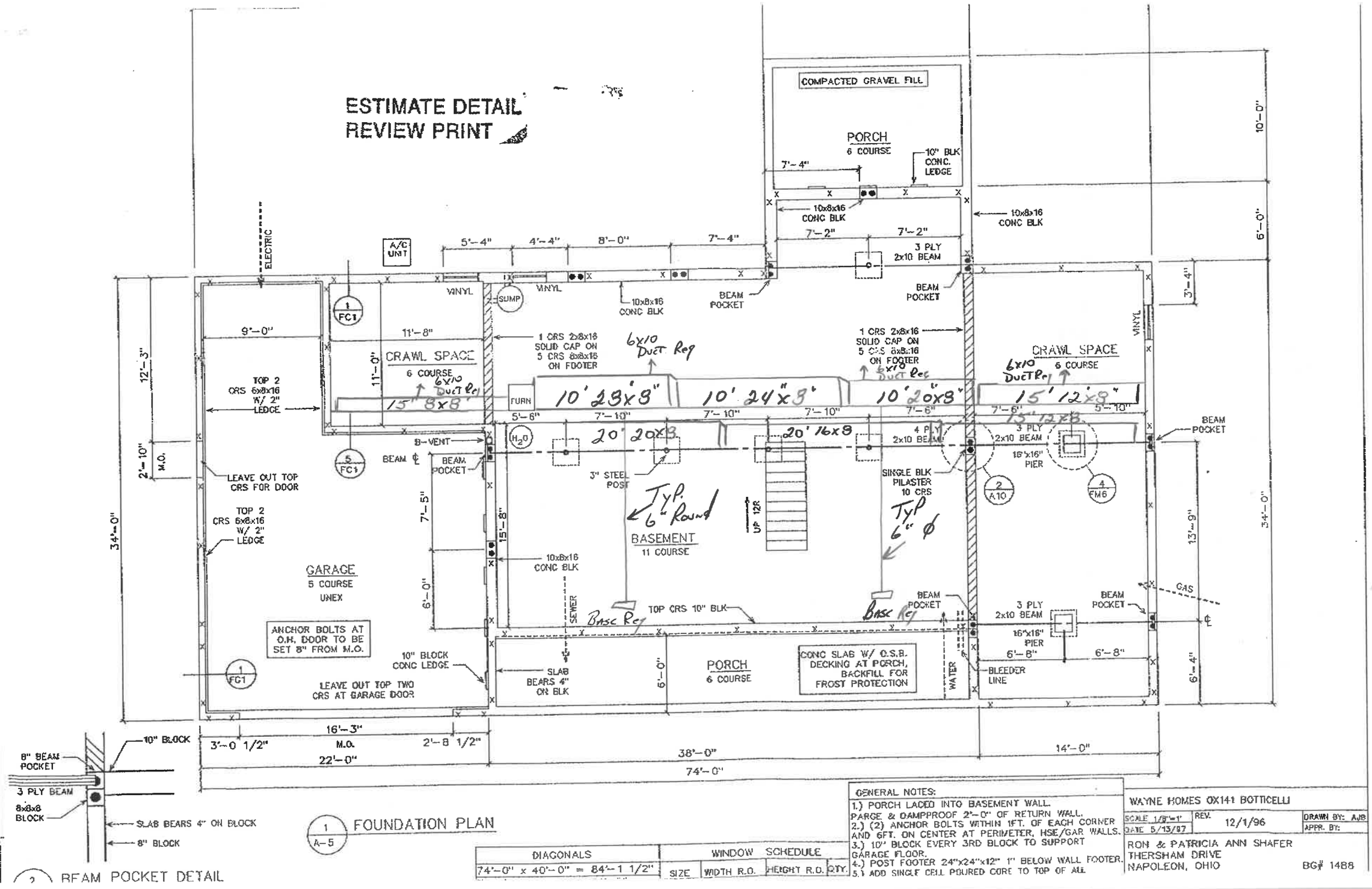
LOCATION OF HEATING UNITS - ( )Crawl Space (✓)Basement Floor Level ( )Attic ( )Suspended ( )Roof ( )Outside

Description of Work: HVAC

DRAWINGS REQUIRED: All applications must be accompanied by two (2) complete sets of Drawings including Site Plans, Foundation Plans, Floor Plans, Structural Framing Plans, Exterior Elevations, Section and Details, Stair Details, Electrical Layout, Plumbing Isometric, Heating Layout, etc. All Plans shall be drawn to scale, show all existing structure on the Site Plans, and 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 Department Rules and Regulations, Standard Specifications and other pertinent sections of the Napoleon Code of Ordinances.

Signature of Applicant Richard W. Hohler/yi Date 6/10/97



DIAGONALS	WINDOW SCHEDULE			
74'-0" x 40'-0" = 84'-1 1/2"	SIZE	WIDTH R.O.	HEIGHT R.O.	QTY.

GENERAL NOTES:

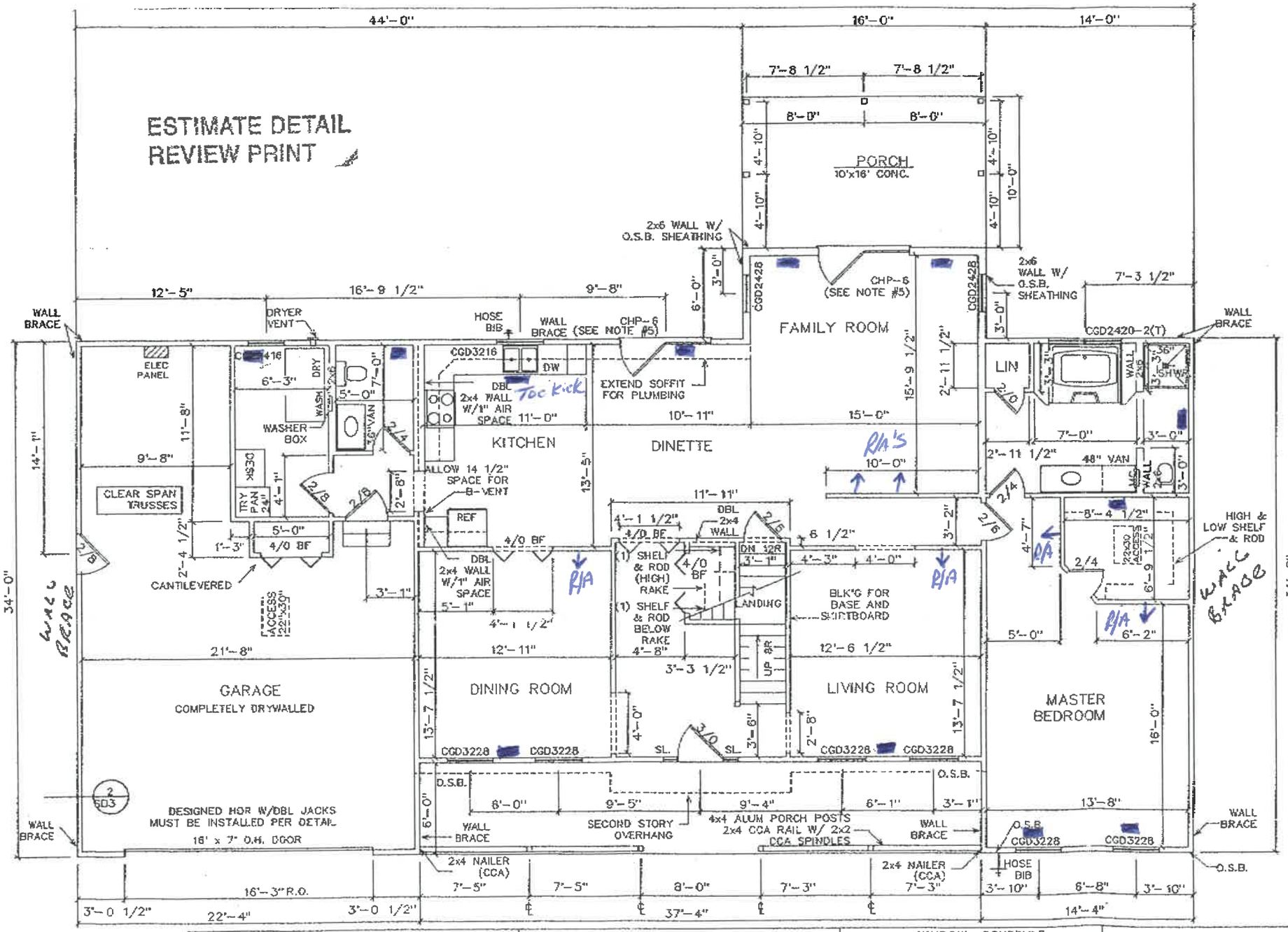
1.) PORCH LACED INTO BASEMENT WALL. PARGE & DAMPPROOF 2'-0" OF RETURN WALL.
2.) (2) ANCHOR BOLTS WITHIN 1FT. OF EACH CORNER AND 6FT. ON CENTER AT PERIMETER, HSE/GAR WALLS.
3.) 10" BLOCK EVERY 3RD BLOCK TO SUPPORT GARAGE FLOOR.
4.) POST FOOTER 24"x24"x12" 1' BELOW WALL FOOTER.
5.) ADD SINGLE CELL POURED CORE TO TOP OF ALL

WAYNE HOMES OX141 BOTTICELLI

SCALE 1/8"=1'	REV. 12/1/96	DRAWN BY: AJB
DATE 5/13/97		APPR. BY:

RON & PATRICIA ANN SHAFER
THERSHAM DRIVE
NAPOLEON, OHIO

BG# 1488



FIRST FLOOR PLAN

GENERAL NOTES:

1.) DBL STUDS AT CENTER BEARING WALLS.
1 STUD TO SUPPORT EACH JOIST AT HEAT RUNS.
2.) DBL 2X8 HOR AT ALL BEARING WALL OPENINGS OR AS NOTED.
3.) CAULK AND INSULATE BEHIND TUBS/SHOWERS AT EXTERIOR WALLS.
6.) LEAVE 1" SPACE BETWEEN DBL EXTERIOR WALLS.
7.) SOLID BLOCKING AT GIRDER POINT LOADS.

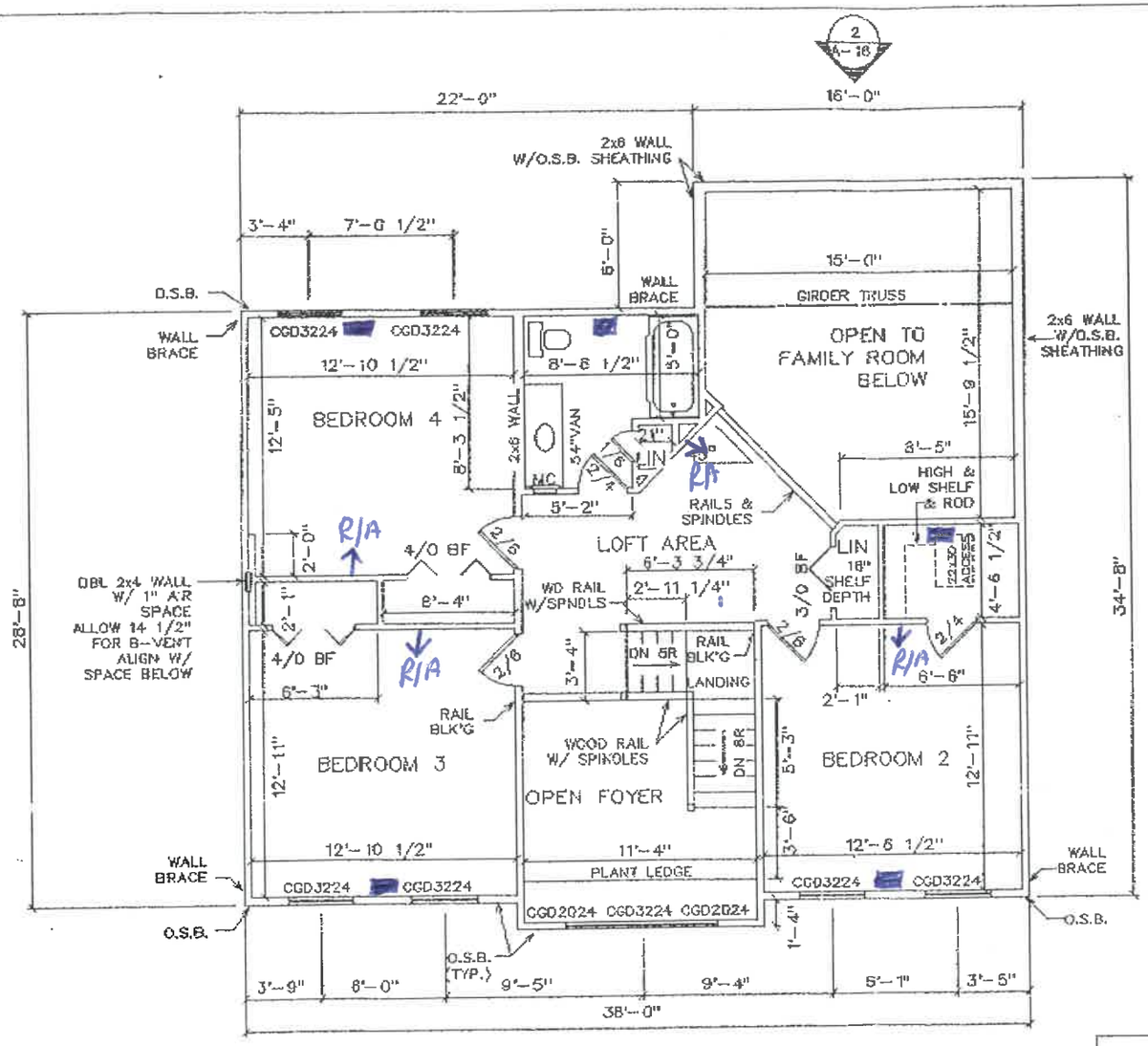
WINDOW SCHEDULE

SIZE	WIDTH R.O.	HEIGHT R.O.	QTY.
CGD3228	3'-2"	5'-4 1/2"	6
CGD2420-2 (T)	4'-10 5/8"	4'-0 1/2"	1
CGD3216	3'-2"	3'-4 1/2"	1

WAYNE HOMES 0X141 BOTTICELLI

SCALE 1/8"=1' | REV. | 12/5/96 | DRAWN BY: AJB
DATE 5/13/97 | APPR. BY:

RON & PATRICIA ANN SHAFER
THERSHAM DRIVE



1 A-7 SECOND FLOOR PLAN

ESTIMATE DETAIL REVIEW PRINT

GENERAL NOTES:

1.) CAULK AND INSULATE BEHIND TUBS/SHOWERS AT EXTERIOR WALLS.
2.) LEAVE 1" AIR SPACE BETWEEN DBL EXTERIOR WALLS.
3.) SOLID BLOCKING AT GIRDER POINT LOADS.
4.) CENTER TOILET BETWEEN WALL AND EDGE OF VANITY.

WINDOW SCHEDULE

SIZE	WIDTH R.O.	HEIGHT R.O.	QTY.
CGD3224	3'-2"	4'-8 1/2"	6
CGD2024/CG3224/ CGD2024	7'-3 5/8"	4'-8 1/2"	1

WAYNE HOMES DX141 BOTTICELLI

SCALE 1/8"=1' REV. 12/5/96 DRAWN BY: AJB
DATE 5/13/97 APPR. BY:

RON & PATRICIA ANN SHAFER
THERSHAM DRIVE
NAPOLEON, OHIO
BG# 1488

SECOND FLOOR PLAN DWG. A-7

© ARTISTRY IN HOMEBUILDING 1993

****

GLASS	NORTH	SOUTH	EAST	EXPOSURE WEST	NE/NW	SE/SW	HORZ.	TOTAL
AREA	0	0	150	200	0	0	0	350
COOLING	0	0	6,575	8,983	0	0	0	15,558
HEATING	0	0	5,472	7,296	0	0	0	12,768

WALLS	NORTH	SOUTH	EAST	WEST	NE/NW	SE/SW	BELOW GRADE	TOTAL
AREA	662	742	818	770	0	0	710	3,702
COOLING	893	1,006	1,071	1,088	0	0	0	4,058
HEATING	3,027	3,410	3,631	3,689	0	0	10,761	24,518

DOORS	NORTH	SOUTH	EAST	WEST	NE/NW	SE/SW		TOTAL
AREA	0	0	40	38	0	0		78
COOLING	0	0	179	170	0	0		350
HEATING	0	0	608	578	0	0		1,186

FLOOR	AREA	COOLING	HEATING
	2554	33	6,552

CEILING	AREA	COOLING	HEATING
	2528	2,576	4,684

MISCELLANEOUS COOLING LOADS

People Sensible Load	1,575	Latent Load	8,292
Lights & Appl. Load	1,198	Latent Safety Btuh	0
Ventilation Load	0		
Duct Heat Gain	2,916		
Infiltration Load	2,446		
Sensible Safety Btuh	0		
TOTAL SENSIBLE LOAD	30,711	TOTAL LATENT LOAD	8,292
Summer ACH	0.21	Temp. Swing Mult.	1.00

*** Total Cooling Load 39,002 BTUH Or 3.25 Tons ***

MISCELLANEOUS HEATING LOADS

Infiltration Load	19,568	Ventilation Load	0
Duct Heat Loss	10,876	Safety Btuh	0
Winter ACH	0.00		

*** Total Heating Load 80,152 BTUH ***

	OUTDOOR SUMMER	OUTDOOR WINTER	INDOOR SUMMER	INDOOR WINTER
Dry Bulb	95	-10	75	70
Wet Bulb	75		62	

Daily Range	21	Daily Swing	3.0
Latitude	40	Elevation	970

Safety Factor (%)	0
Latent Factor (%)	27

****

Room Name	Heating BTUH	Heating CFM	Sensible Cooling BTUH	Cooling CFM
Master Bedroom	9,006	126	3,086	156
Master Bath/WIC	9,242	129	2,374	120
Living Room	5,395	75	2,388	121
Foyer	8,403	118	3,264	165
Dining Room	7,208	101	2,637	133
Bath/Laundry	6,986	98	1,452	73
Kitchen/Dinette	7,224	101	2,710	137
Family Room	14,654	205	5,829	294
Bedroom 2	4,223	59	2,340	118
Bedroom 3	3,781	53	2,224	112
Bedroom 4	3,365	47	2,128	107
Bath/Loft	663	9	277	14
	80,152	1,121	30,711	1,551

HEATING DELTA T 65.0

COOLING DELTA T 18.0

NOTE: *** Calculated Airflow is based upon load requirements. Verify that airflow calculated is compatible with selected equipment requirements. ***

Job # 1488

Heating

Type of Heat: (Gas) Gas +90 L/P L/P +90
Electric Furnace Other _____

Furnace Location: (Basement) Crawl Slab

Number of Courses in Basement or crawl? 11

B-Vent Location if Gas or L/P: Wall Between Garage & Kitchen

Heat Pump (Central Air) **Outside Unit Location:** Rear - Middle of Crawl Space

Pre-Air Counter Flow Horizontal Furnace

Ceiling Height: Standard (8') 9'

(Finished Utility Room) Extra Bedroom Extra Bath

Vented Range Hood Laundry Chute - 1st or 2nd floor Dryer Vent Piping (see prints for location)

Hang Furnace on Rough? ( ) Yes (X) No

Special Additions: DO NOT USE COUNTERTOPS AS A WORK AREA

Plumbing

Water Heater: Electric (Gas) L/P **Size** _____

Water Heater B-Vent Size: 3" (4") None **Drafthood Outlet:** 3" (4")

Laundry Location: (Utility Room) Basement

Drainage: (Footer Sump) Laundry Sump Floor Drain P-Trap Standpipe
(Washer Box) Vented P-Trap Vented Standpipe Sealed Laundry Sump - Under Footer

Soil Pipe Exit: (Sewer) or Septic High or (Low) (Front) or Rear (Bsmt) or Fam/Util

Gas Company Ohio Gas Co. **Meter Location** Right End - Near Front - In Crawl

Inside Gas Line? (X) Yes ( ) No **Size** _____ **Length** _____

Gas Line to Fireplace **Other** _____

Laundry Tub: Single or Double Complete or Rough Leg or Wall Mount

Run Gas Line on Rough? ( ) Yes (X) No **Footer Sump Pump on Rough?** (X) Yes ( ) No

APPLICATION FOR

Residential, Building, Electrical, Plumbing, Mechanical, and Demolition Permit
FROM - The City of Napoleon, Ohio, Building Department
255 West Riverview Avenue; P.O. Box 151; Napoleon, Ohio 43545 - Telephone (419) 592-4010

ENTRY NO. _____

PERMIT NO. _____ ISSUED _____

JOB LOCATION 1460 Thorsham Dr.

LOT 59 Twin Oaks Sub.
(Subdivision or Legal Description)

ISSUED BY _____
(Building Official)

OWNER Ron and Patricia Shafer PHONE (419) 592-8346

ADDRESS 878 East Graceway, Napoleon, OH 43545

Builder
AGENT Wayne Homes, Inc PHONE (419) 655-2535

ADDRESS 6489 S. Dixie Hwy, Cygnet, OH 43413

USE: (X) Residential ( ) Commercial ( ) Industrial
( ) Other _____

WORK: (X) New ( ) Addition ( ) Replacement ( ) Remodel

ESTIMATED COST = $ 129,165.00

	Base	Plus garage	Total
( )Building	$ 261.00?	$ 4,508	$
( )Electrical	$ 15.00	$ 60.00	$ 75.00
( )Plumbing	$ 9.00	$	$
( )Mechanical	$ 18.00	$	$
( )Demolition	$	$	$
( )Zoning	$	$	$
( )Sign	$	$	$
( )Water Tap	$	$	$
( )Sewer Tap	$	$	$
( )Temp Water	$	$	$
( )Temp Elec.	$	$	$

Additional Plan Review: Structure ____ Hours ____ Electric ____ Hours ____

TOTAL FEES . . . . . $
Less Fees Paid . . . . . $
BALANCE DUE . . . . . $

ZONING INFORMATION

District	Lot Dimensions	Area	Front Yard	Side Yard	Rear Yard

Max Height	No. Pkg. Spaces	No. Ldg. Spaces	Max Cover	Petition or Appeal Required-Date

WORK INFORMATION

Building: Ground Floor Area 1704 sq. ft. Basement Floor Area 936 sq. ft.

Garage Floor Area 604 sq. ft. 2nd Floor Area 891 sq. ft. Other Porches 382 sq. ft.

Size: Length 74'0" Width 34'0"/50'0" Stories 2 Height 24'10"

Building Volume (for Demolition Permit) _____ cubic feet

Description of Work: Single family - wood frame - 2 story with attached garage

CITY OF NAPOLEON INSPECTION FORM

PERMIT #: 97236

DATE ISSUED: 07-01-97

JOB LOCATION: 1460 THERSHAN DR

OWNER: SHAFER, RONALD

OWNER PHONE: 419-592-8346

CONTRACTOR: WAYNE HOMES INC

CONTRACTOR PHONE: 419-655-2535

WORK DESCRIPTION: NEW HOME

PLUMBING: UNDGR _____ RGHIN _____ FINAL _____

SEWER INSP _____

MECHANICAL: UNDGR _____ RGHIN _____ FINAL _____

FURNACE REPLC _____ AIR COND _____

ELECTRICAL: UNDGR _____ RGHIN _____ FINAL _____

SERV UPGR _____

BUILDING: SITE _____ FTG _____ FNDT _____

STRUC _____ ROOF _____ EXT _____

VENT _____ ACCES _____ EGRS _____

SMKDT _____ FINAL _____

ISSUE TEMP OCCUP _____ ISSUE OCCUP _____

STRG SHED: SITE _____ FINAL _____

SIGN: FTG _____ FINAL _____

FENCE: SITE _____ FINAL _____

MISC INSP: _____

NOTES: _____

_____

_____

INSPECTOR INITIALS: _____

CITY OF NAPOLEON - WORK ORDER

Work Order No. _____

Service: ☐ **Electric** ☐ **Water** ☐ **Street** ☐ **Other**

DATE ISSUED:	NAME:	ACCT. NO.:
9-22-97	Ron Shafer 878 E. Greenway	
TIME ISSUED:	**ADDRESS:**	**PHONE NO.:**
10:44 AM	Job - 1460 Thershan Dr.	592-8346

WORK REQUISITION

Is This Billable Work: ☐ Y* ☐ N	☐ Meter Change Out	☐ Locate Sewers	☐ Street Sign
☐ Install (turn on)	☐ High Usage	☐ Special Pickup	☐ Traffic Control Sign
☐ Remove (turn off)	☐ Rusty Water	☐ Set Hydrant Meter	☐ Sewer Backup
☐ Security Light	☐ Install Service	☐ Hydrant Repair	☐ Alley
☐ Locate Lines	☐ Check Leaks	☐ Police Report	☐ Tree Limbs
☐ Check Voltage	☐ Garden Hose Meter	☐ Potholes	☐ Mulch
☐ Stopped Meter	☐ Service Renewal	☐ Catch Basin	☐ Other

Instructions: * (If Yes, attach separate sheet for billable services)

Please install underground electric service.

METER LOCATION

Electric — No.

Water — No.

ROM / Pro-Read — No.

REMARKS:

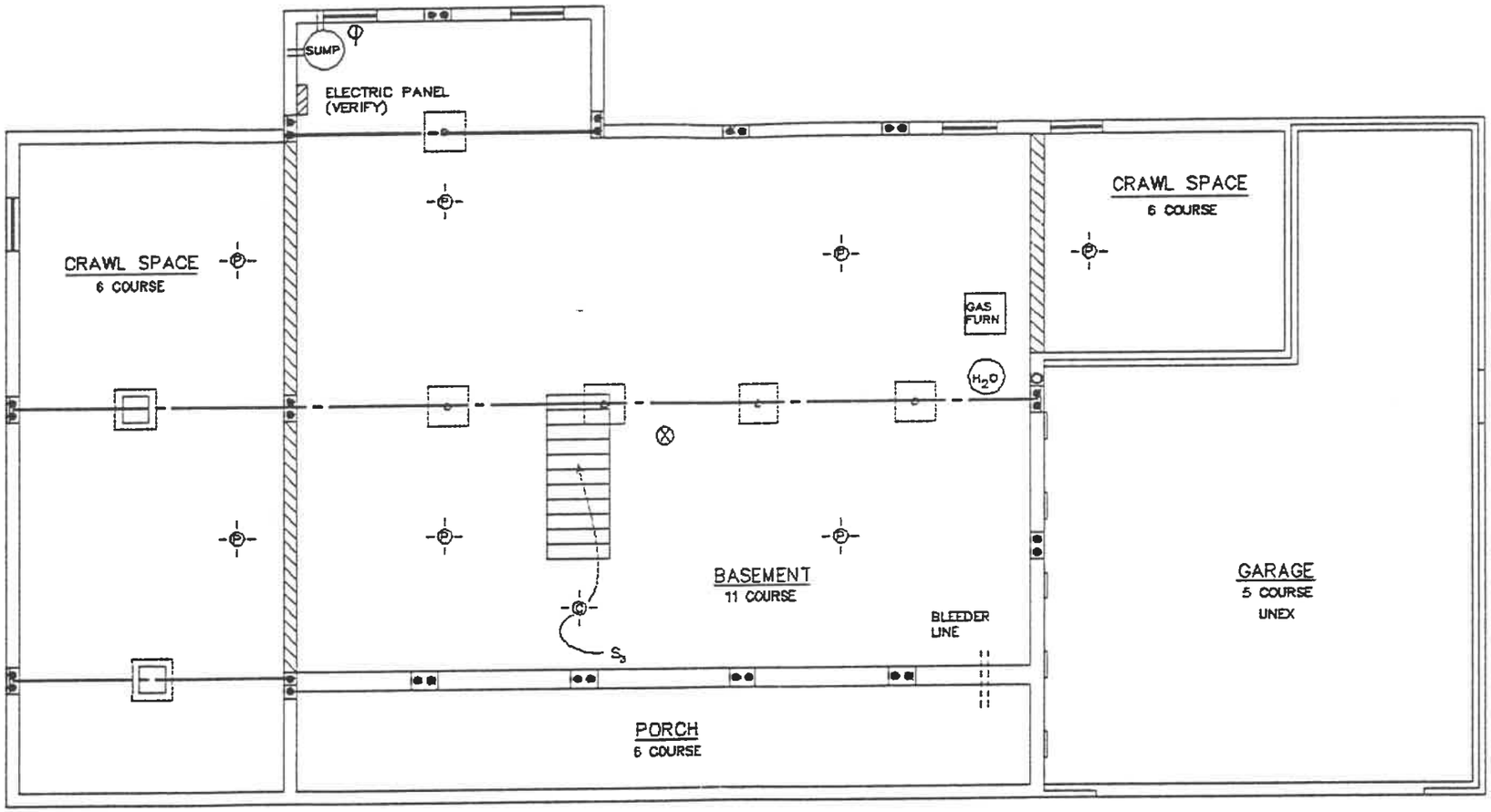
METER INFORMATION

	REMOVE			INSTALL		
TYPE	**NUMBER**	**DATE**	**READING**	**NUMBER**	**DATE**	**READING**
Electric						
Water						
Water Htr.						
Mtr. Change Out						
Hose Meter						
Hydrant Meter						
Lawn Meter						

Date Completed: / / **Work Performed:**

AUTHORIZED BY: [illegible]	DATE: 9-22-97
SERVICE PERFORMED BY:	DATE:

DEPARTMENT COPY



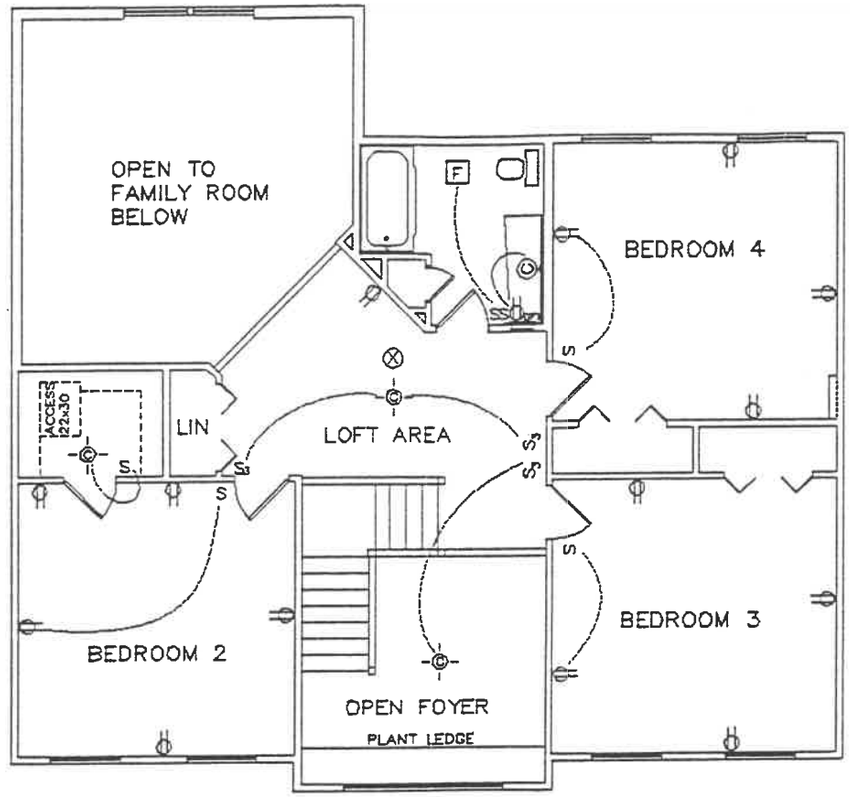
1 / E-1 BASEMENT ELECTRICAL PLAN

THIS PRINT SUBJECT TO CHANGE

ELECTRICAL LEGEND	
S SWITCH ONE WAY	INCANDESCENT LIGHT FIXTURE (CEILING)
S_2 SWITCH TWO WAY	INCANDESCENT LIGHT W/PULL STRING
S_3 SWITCH THREE WAY	EXTERIOR WALL MOUNTED FIXTURE
S_R SWITCH WITH REOSTAT CONTROL	FLUORESCENT WALL MOUNTED FIXTURE
SINGLE POLE OUTLET	SMOKE DETECTOR
DUPLEX OUTLET (110 VOLT)	F CEILING FAN
220 DUPLEX OUTLET (220 VOLT)	TELEPHONE OUTLET
GFI DUPLEX OUTLET (GFI)	T THERMOSTAT
DUPLEX OUTLET CEILING MOUNTED	

WAYNE HOMES 0X141 BOTTICELLI		
SCALE 1/8"=1'	REV. 1/1/94	DRAWN BY:
DATE		APPR. BY:
BASEMENT ELECTRICAL PLAN		DWG E-1

© ARTISTRY IN HOMEBUILDING 1993



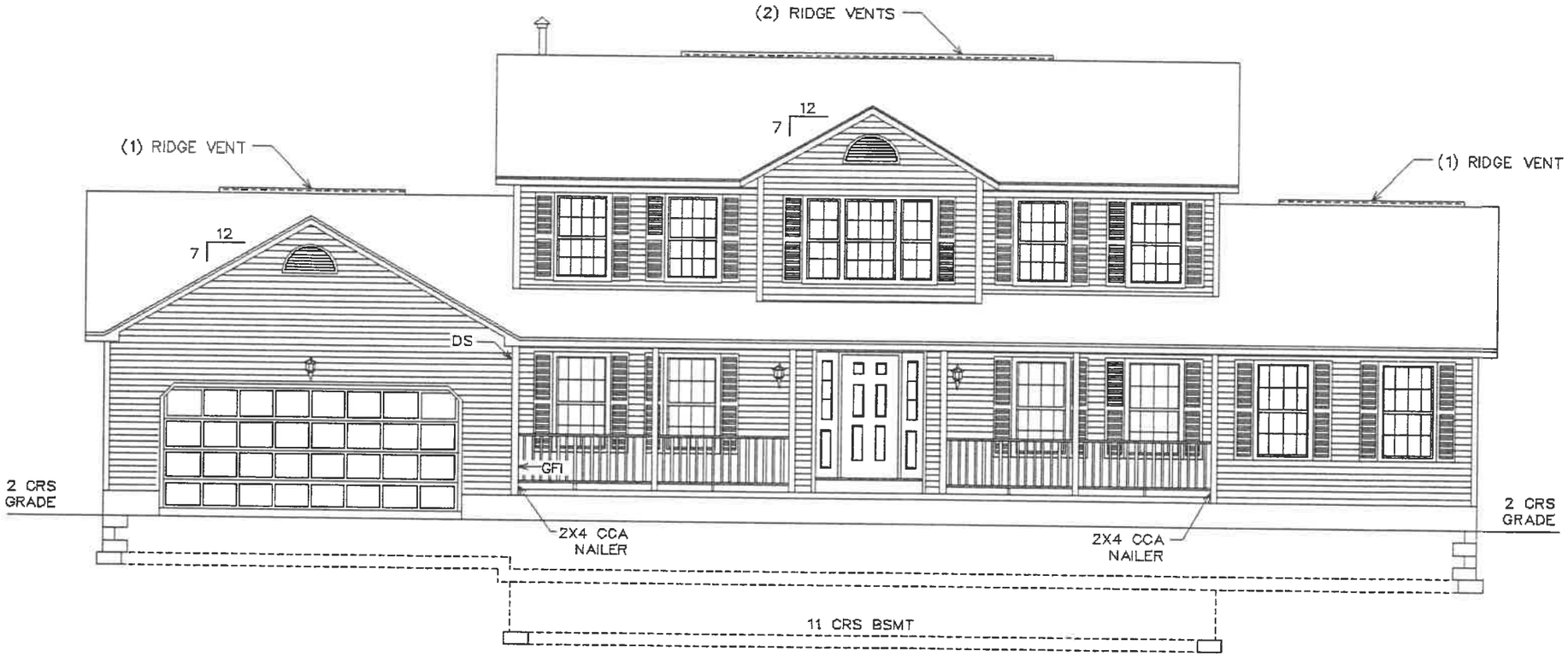
1 / E-3 SECOND FLOOR ELECTRICAL PLAN

ELECTRICAL LEGEND	
S SWITCH ONE WAY	INCANDESCENT LIGHT FIXTURE (CEILING)
S_2 SWITCH TWO WAY	INCANDESCENT LIGHT W/PULL STRING
S_3 SWITCH THREE WAY	EXTERIOR WALL MOUNTED FIXTURE
S_R SWITCH WITH REOSTAT CONTROL	FLUORESCENT WALL MOUNTED FIXTURE
SINGLE POLE OUTLET	SMOKE DETECTOR
DUPLEX OUTLET (110 VOLT)	F CEILING FAN
DUPLEX OUTLET (220 VOLT)	TELEPHONE OUTLET
DUPLEX OUTLET (GFI)	T THERMOSTAT
DUPLEX OUTLET CEILING MOUNTED	

THIS PRINT SUBJECT TO CHANGE

WAYNE HOMES DX141 BOTTICELLI		
SCALE 1/8"=1'	REV. 1/1/94	DRAWN BY:
DATE		APPR. BY:
SECOND FLOOR ELECTRICAL PLAN		DWG E-3

© ARTISTRY IN HOMEBUILDING 1993



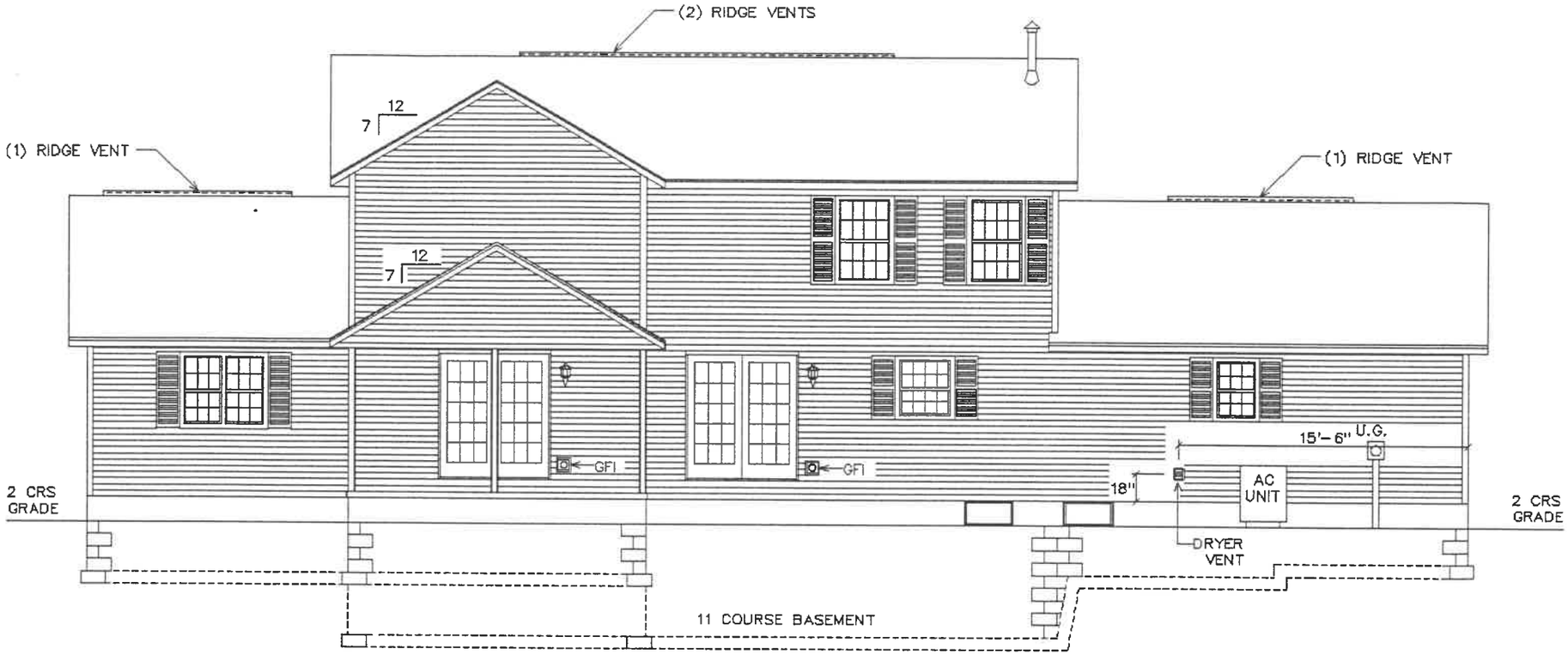
1 / A-1 FRONT ELEVATION

GENERAL NOTES:

1.) SHUTTERS ARE 12" WIDE.

WAYNE HOMES 0X141 BOTTICELLI		
SCALE 1/8"=1'	REV. 12/5/96	DRAWN BY: AJB
DATE 6/13/97		APPR. BY:
RON & PATRICIA ANN SHAFER THERSHAM DRIVE NAPOLEON, OHIO		BG# 1488
FRONT ELEVATION		DWG. A-1

© ARTISTRY IN HOMEBUILDING 1993

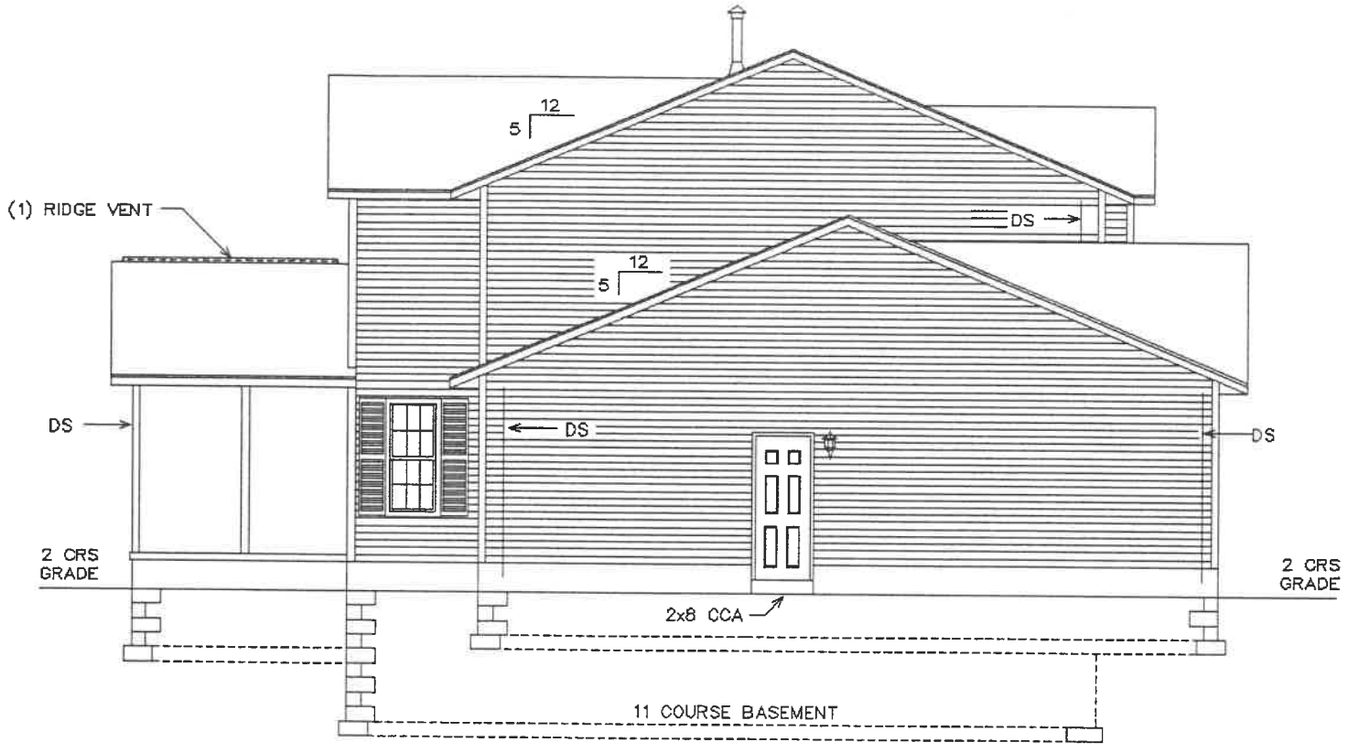


1
A-2

REAR ELEVATION

WAYNE HOMES 0X141 BOTTICELLI		
SCALE 1/8"=1'	REV. 12/5/96	DRAWN BY: AJB
DATE 5/13/97		APPR. BY:
RON & PATRICIA ANN SHAFER THERSHAM DRIVE NAPOLEON, OHIO		BG# 1488
REAR ELEVATION		DWG. A-2

© ARTISTRY IN HOMEBUILDING 1993

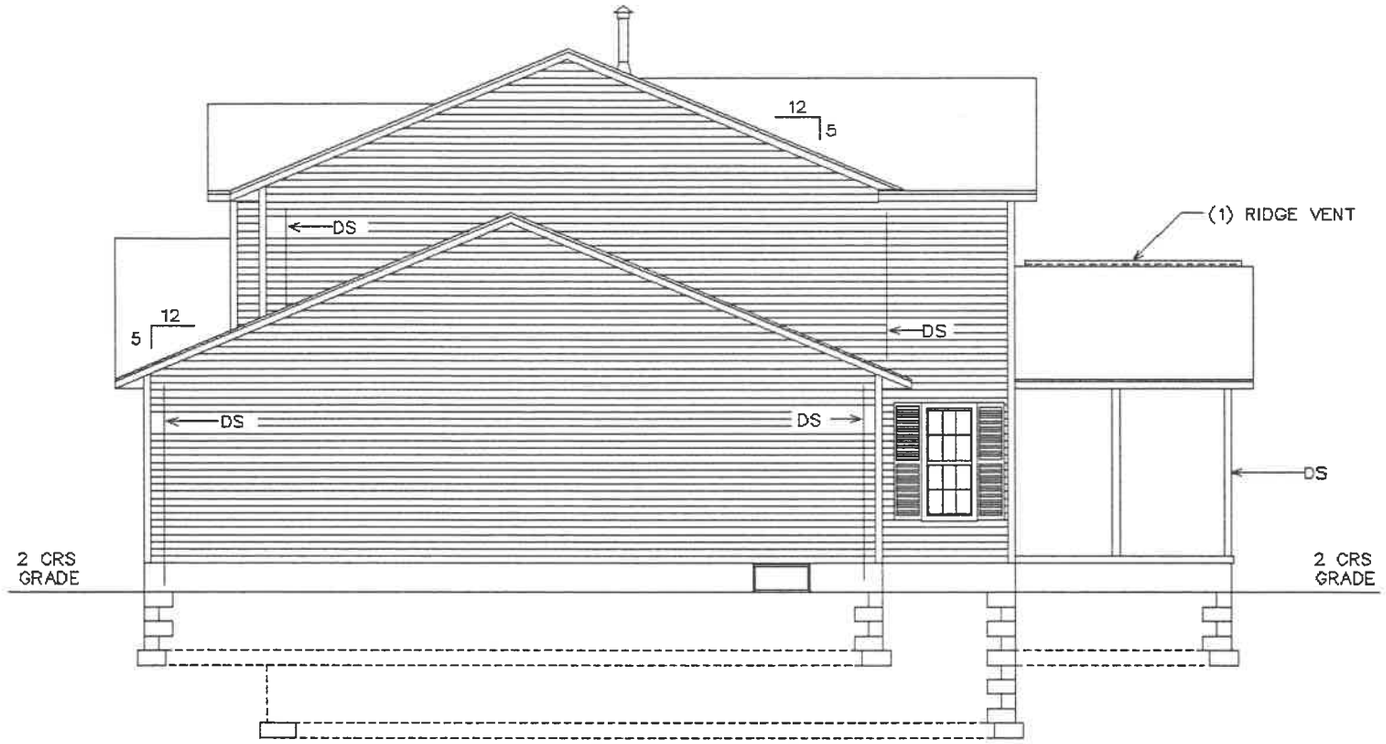


1
A-3

LEFT ELEVATION

WAYNE HOMES 0X141 BOTTICELLI		
SCALE 1/8"=1'	REV. 12/5/96	DRAWN BY: AJB
DATE 6/13/97		APPR. BY:
RON & PATRICIA ANN SHAFER THERSHAM DRIVE NAPOLEON, OHIO		BG# 1488
LEFT ELEVATION		DWG. A-3

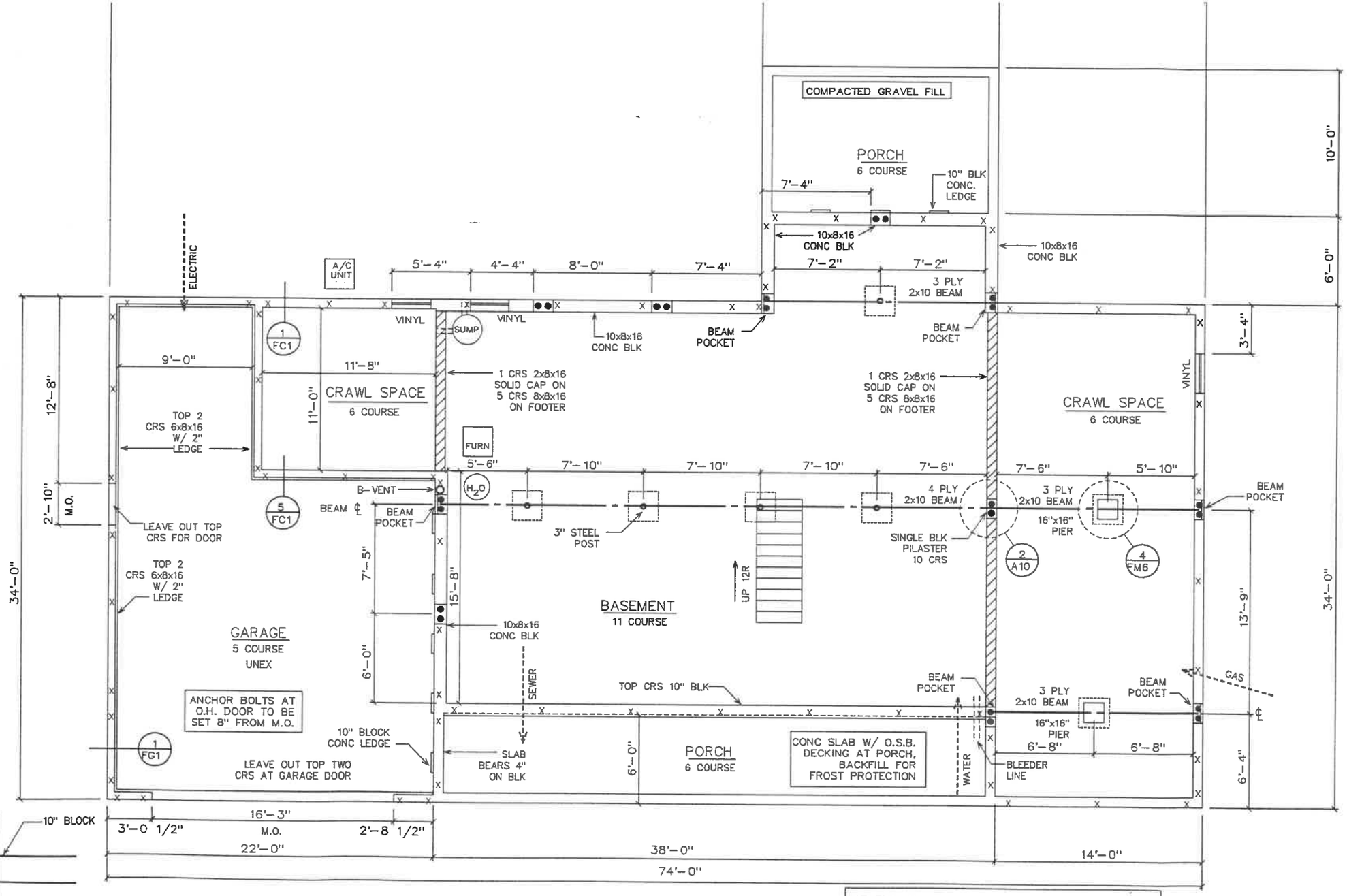
© ARTISTRY IN HOMEBUILDING 1993

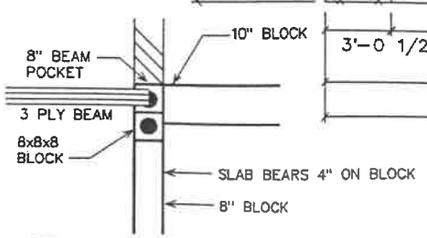


1
A-4
RIGHT ELEVATION

WAYNE HOMES 0X141 BOTTICELLI		
SCALE 1/8"=1'	REV. 12/5/96	DRAWN BY: AJB
DATE 5/13/97		APPR. BY:
RON & PATRICIA ANN SHAFER THERSHAM DRIVE NAPOLEON, OHIO		BG# 1488
RIGHT ELEVATION		DWG. A-4

© ARTISTRY IN HOMEBUILDING 1993





2 A-5 BEAM POCKET DETAIL

1 A-5 FOUNDATION PLAN

DIAGONALS
74'-0" x 40'-0" = 84'-1 1/2"
74'-0" x 34'-0" = 81'-5"

WINDOW SCHEDULE			
SIZE	WIDTH R.O.	HEIGHT R.O.	QTY.

GENERAL NOTES:

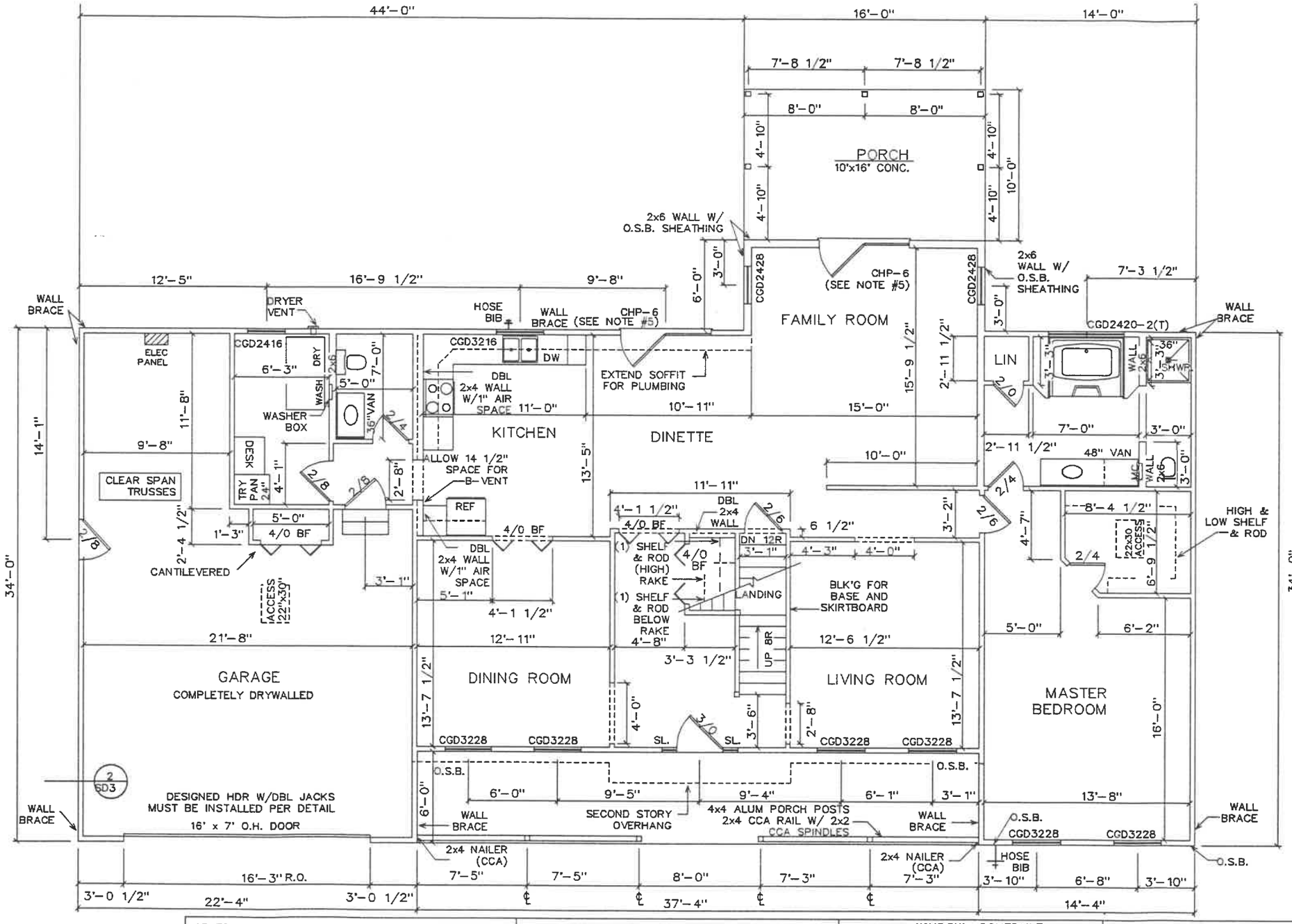
1.) PORCH LACED INTO BASEMENT WALL. PARGE & DAMPPROOF 2'-0" OF RETURN WALL.
2.) (2) ANCHOR BOLTS WITHIN 1FT. OF EACH CORNER AND 6FT. ON CENTER AT PERIMETER, HSE/GAR WALLS.
3.) 10" BLOCK EVERY 3RD BLOCK TO SUPPORT GARAGE FLOOR.
4.) POST FOOTER 24"x24"x12" 1" BELOW WALL FOOTER.
5.) ADD SINGLE CELL POURED CORE TO TOP OF ALL

WAYNE HOMES 0X141 BOTTICELLI

SCALE 1/8"=1"	REV. 12/1/96	DRAWN BY: AJB
DATE 5/13/97		APPR. BY:

RON & PATRICIA ANN SHAFER
THERSHAM DRIVE
NAPOLEON, OHIO

RG# 1488



1 A-6 FIRST FLOOR PLAN

GENERAL NOTES:

1.) DBL STUDS AT CENTER BEARING WALLS. 1 STUD TO SUPPORT EACH JOIST AT HEAT RUNS.
2.) DBL 2X8 HDR AT ALL BEARING WALL OPENINGS OR AS NOTED.
3.) CAULK AND INSULATE BEHIND TUBS/SHOWERS AT EXTERIOR WALLS.
4.) ADD (1) SHT. O.S.B. AT EA. SIDE OF GARAGE DOOR.
6.) LEAVE 1" SPACE BETWEEN DBL EXTERIOR WALLS.
7.) SOLID BLOCKING AT GIRDER POINT LOADS.

WINDOW SCHEDULE

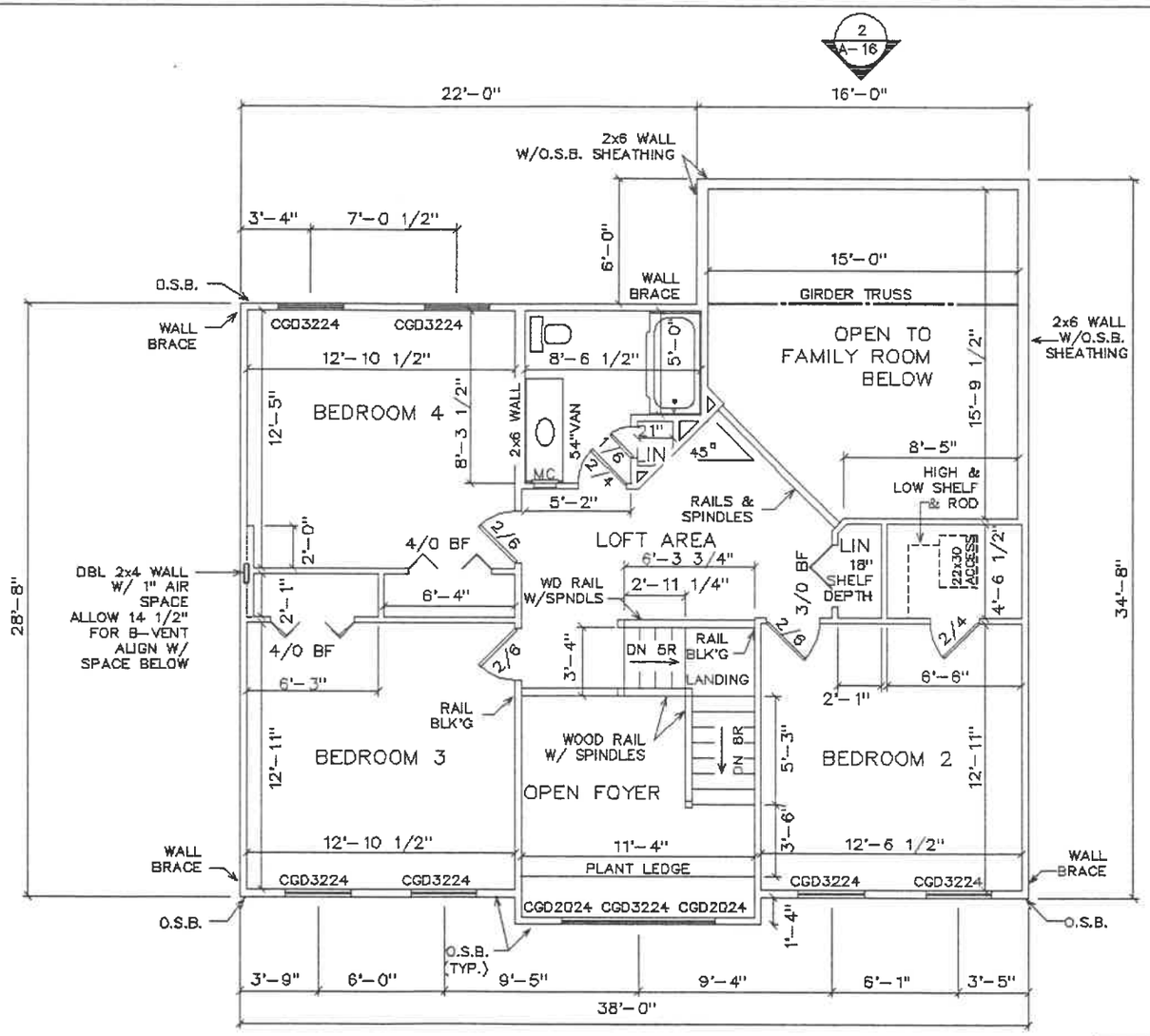
SIZE	WIDTH R.O.	HEIGHT R.O.	QTY.
CGD3228	3'-2"	5'-4 1/2"	6
CGD2420-2 (T)	4'-10 5/8"	4'-0 1/2"	1
CGD3216	3'-2"	3'-4 1/2"	1
CGD2416	2'-6"	3'-4 1/2"	1

WAYNE HOMES 0X141 BOTTICELLI

SCALE 1/8"=1' | REV. 12/5/96 | DRAWN BY: AJB
DATE 5/13/97 | APPR. BY:

RON & PATRICIA ANN SHAFER
THERSHAM DRIVE
NAPOLEON, OHIO

BG# 1488



1
A-7
SECOND FLOOR PLAN

GENERAL NOTES:

1.) CAULK AND INSULATE BEHIND TUBS/SHOWERS AT EXTERIOR WALLS.
2.) LEAVE 1" AIR SPACE BETWEEN DBL EXTERIOR WALLS.
3.) SOLID BLOCKING AT GIRDER POINT LOADS.
4.) CENTER TOILET BETWEEN WALL AND EDGE OF VANITY.

WINDOW SCHEDULE

SIZE	WIDTH R.O.	HEIGHT R.O.	QTY.
CGD3224	3'-2"	4'-8 1/2"	6
CGD2024/CG3224/ CGD2024	7'-3 5/8"	4'-8 1/2"	1

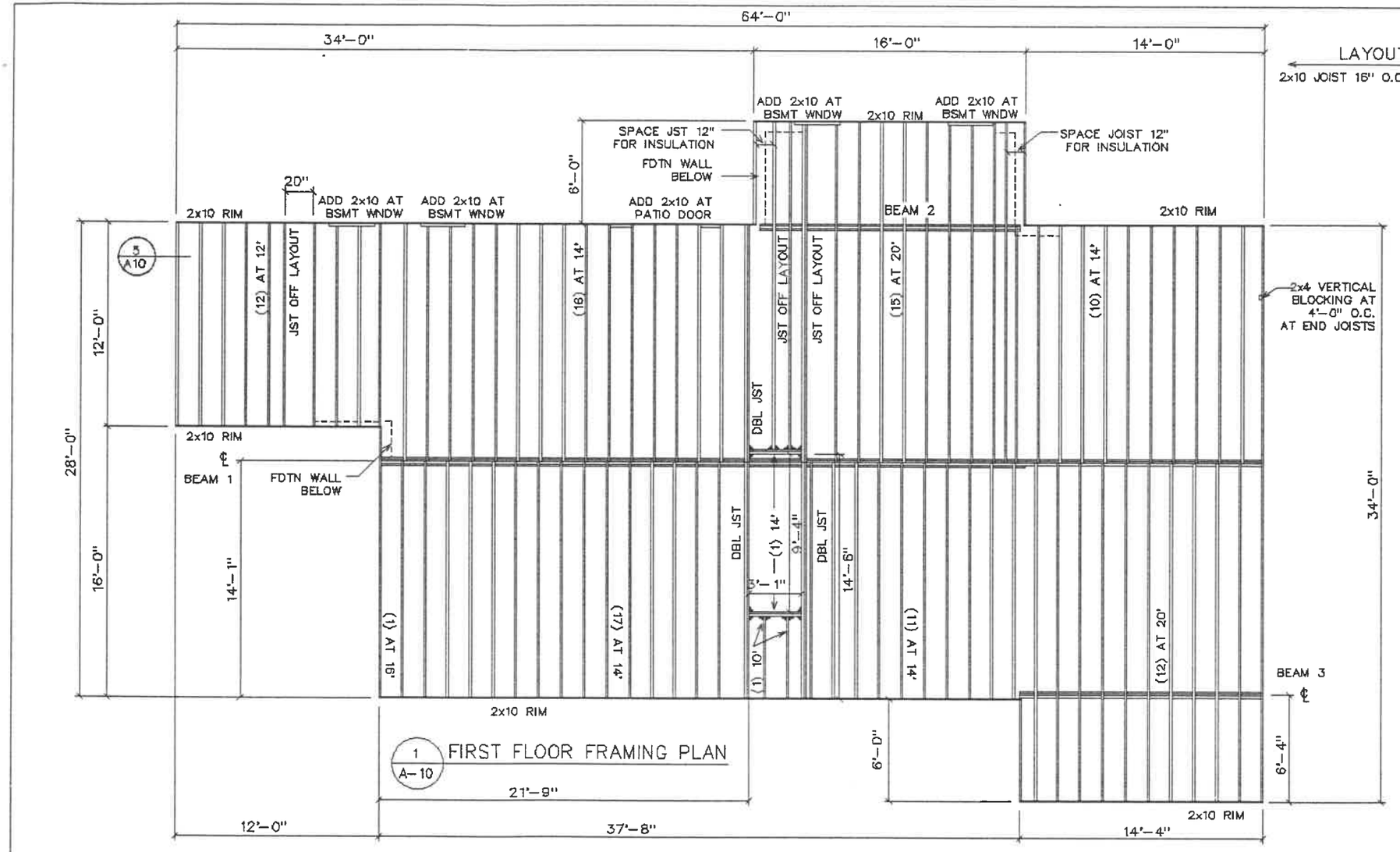
WAYNE HOMES OX141 BOTTICELLI

SCALE 1/8"=1' REV. 12/5/96 DRAWN BY: AJB
DATE 5/13/97 APPR. BY:

RON & PATRICIA ANN SHAFER
THERSHAM DRIVE
NAPOLEON, OHIO
BG# 1488

SECOND FLOOR PLAN DWG. A-7

© ARTISTRY IN HOMEBUILDING 1993

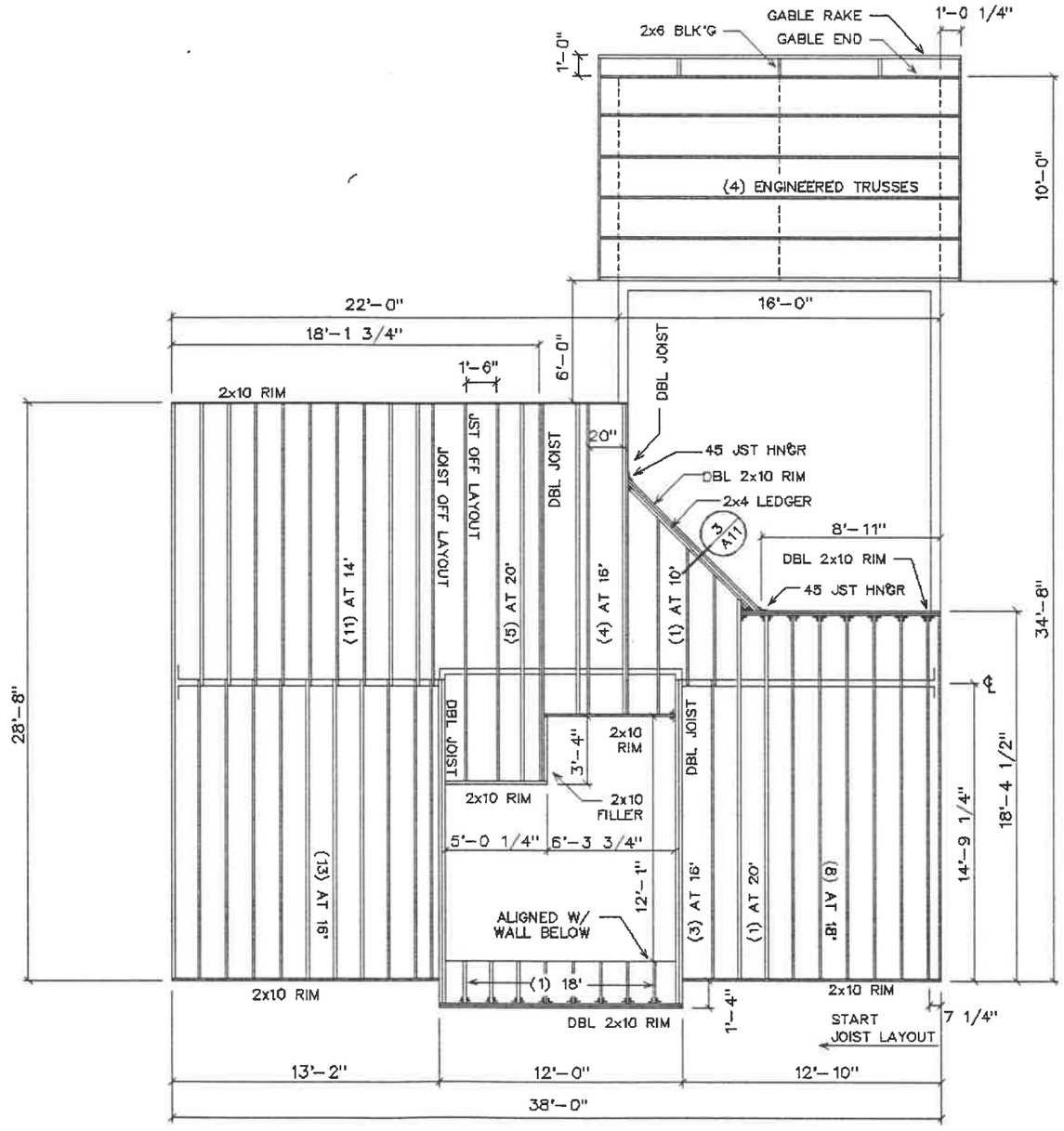


FRAMING NOTES:

1.) USE JOIST HANGERS WHERE NO SOLID BEARING IS PROVIDED.
2.) ADD 2x10 BLOCKING UNDER ALL OPENINGS IN BEARING WALL.
3.) ADD 2x4 VERTICAL BLOCKING AT 4' O.C. AT END JOISTS.

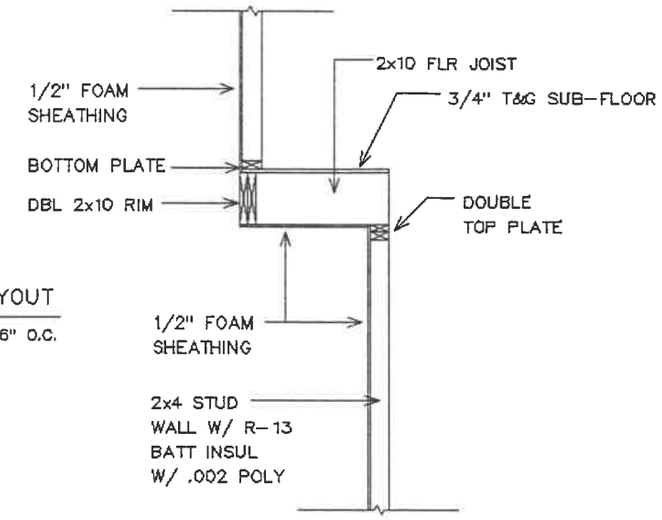
WAYNE HOMES 0X141 BOTTICELLI		
SCALE 1/8"=1'	REV. 12/5/96	DRAWN BY: AJB
DATE 5/13/97		APPR. BY:
RON & PATRICIA ANN SHAFER THERSHAM DRIVE NAPOLEON, OHIO		BG# 1488
FIRST FLOOR FRAMING PLAN		DWG. A-10

© ARTISTRY IN HOMEBUILDING 1993

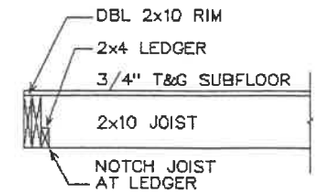


1 A-11 SECOND FLOOR FRAMING PLAN

LAYOUT
2x10 JOIST 16" O.C.



2 A-11 SECTION AT PLANT LEDGE



3 A-11 SECTION AT LOFT AREA

FRAMING NOTES:

1.) USE JOIST HANGERS WHERE NO SOLID BEARING IS PROVIDED.
2.) ADD 2x10 BLOCKING UNDER ALL OPENINGS IN BEARING WALL.
3.) ADD 2x4 VERTICAL BLOCKING AT 4' O.C. AT END JOISTS.

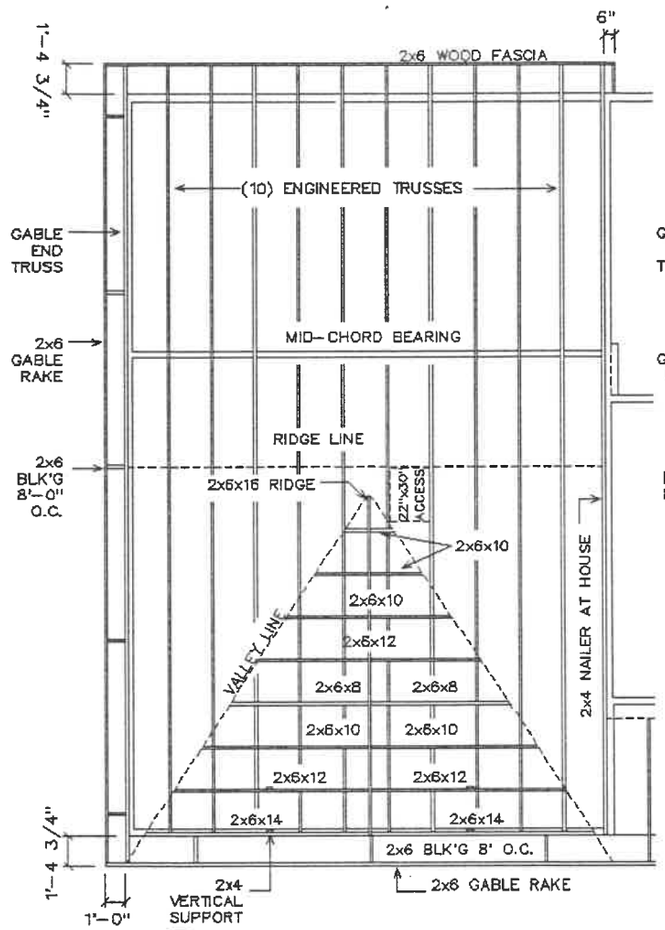
WAYNE HOMES 0X141 BOTTICELLI

SCALE 1/8"=1'	REV. 12/5/96	DRAWN BY: AJB
DATE 5/13/97		APPR. BY:

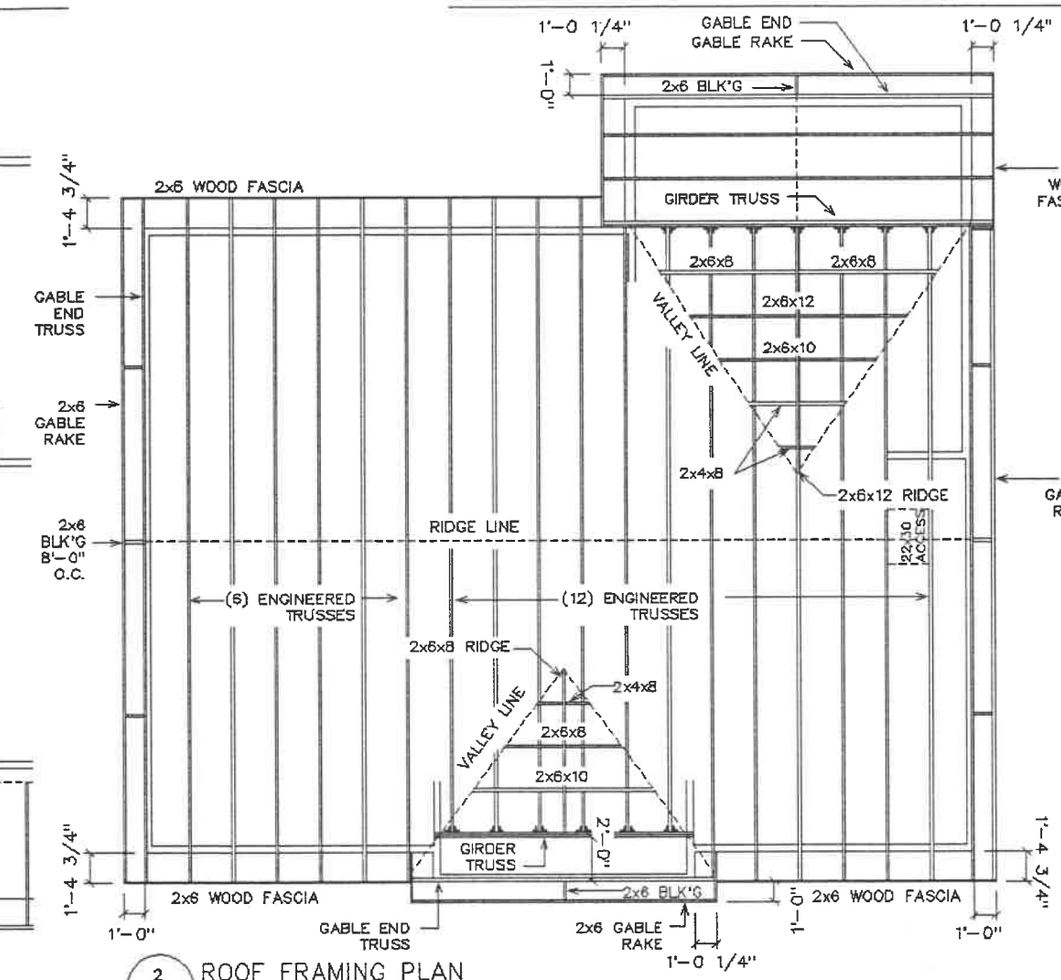
RON & PATRICIA ANN SHAFER
THERSHAM DRIVE
NAPOLEON, OHIO
BG# 1488

SECOND FLOOR FRAMING PLAN — DWG. A-11

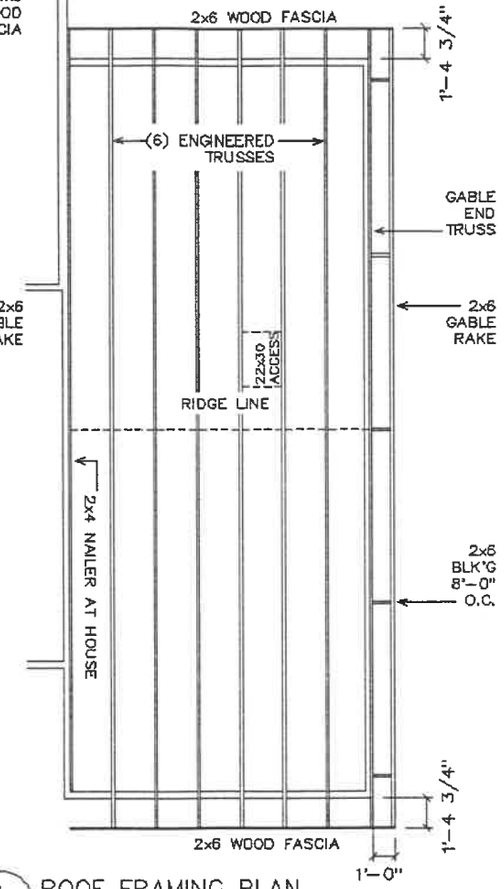
© ARTISTRY IN HOMEBUILDING 1993



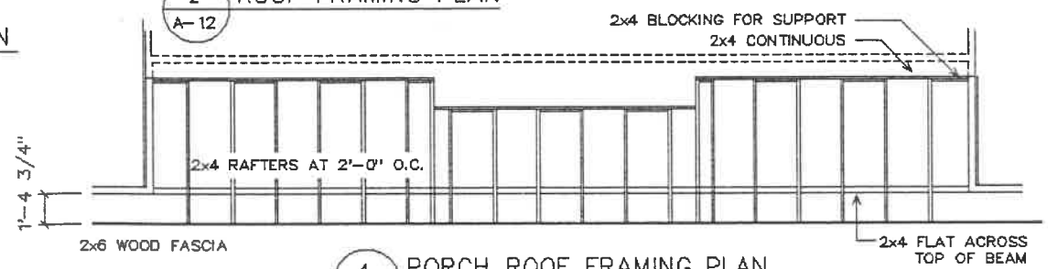
3 A-12 GARAGE ROOF FRAMING PLAN



2 A-12 ROOF FRAMING PLAN



1 A-12 ROOF FRAMING PLAN



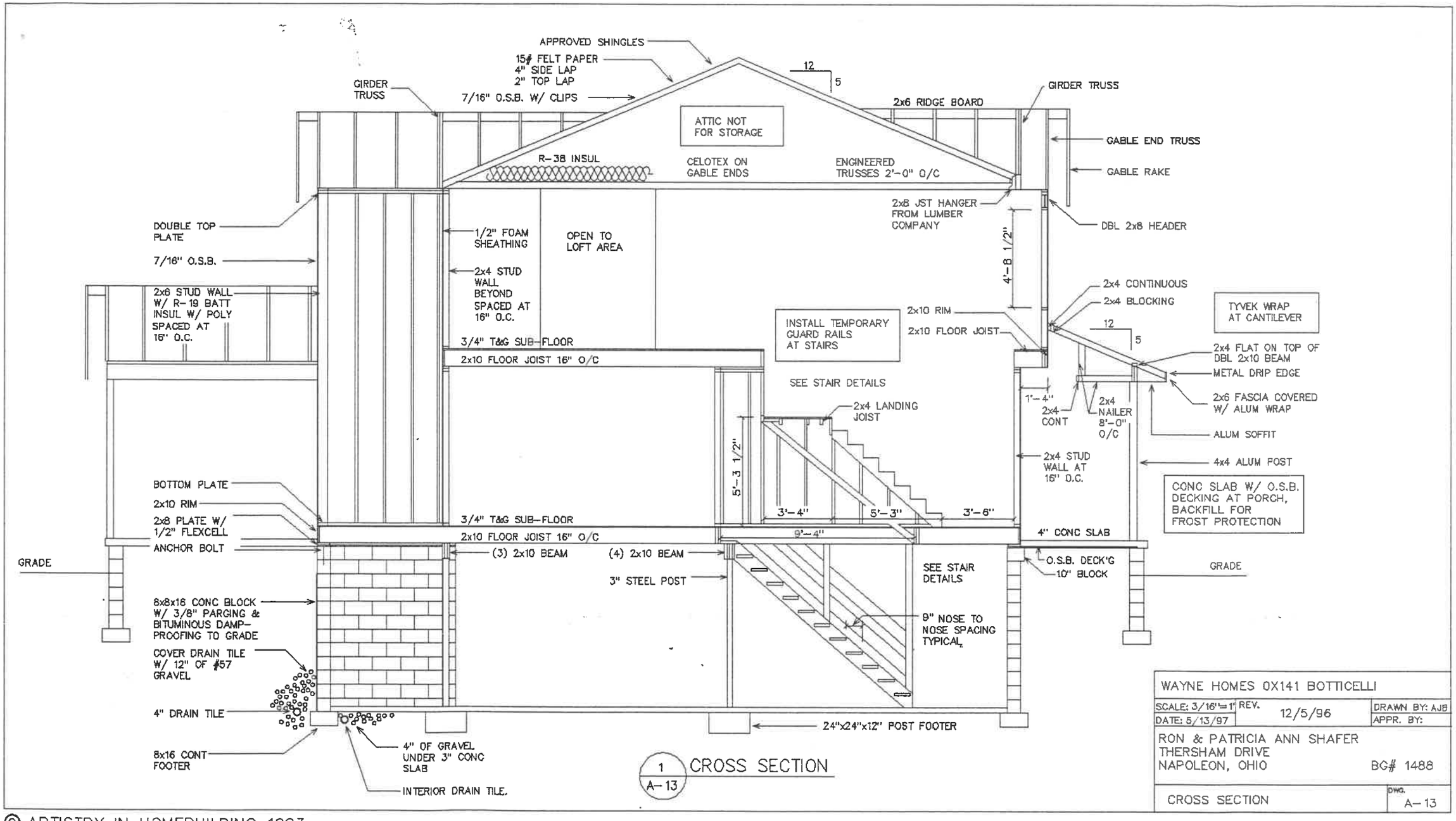
4 A-12 PORCH ROOF FRAMING PLAN

GENERAL NOTES:

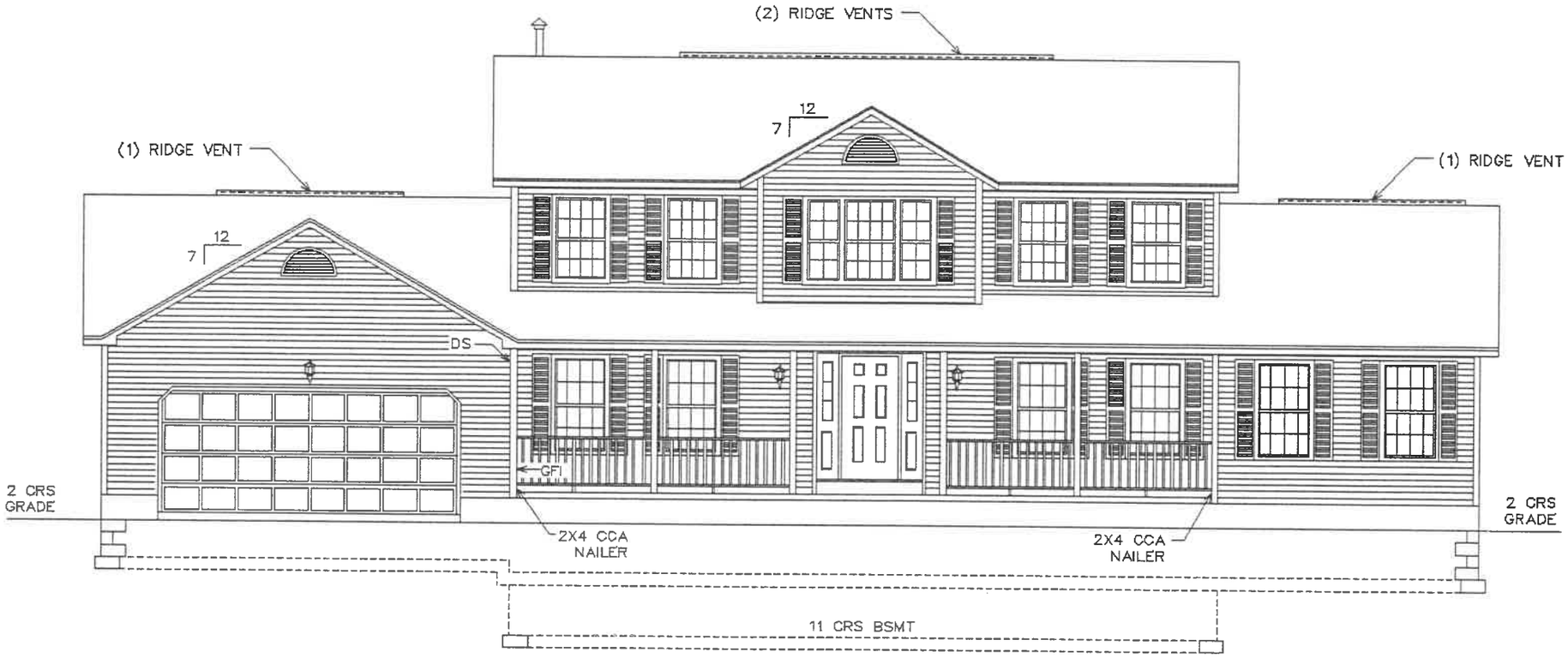
1.) OVERHANG DISTANCES VARY PER ROOF PITCH.

WAYNE HOMES 0X141 BOTTICELLI		
SCALE 1/8"=1'	REV. 12/5/96	DRAWN BY: AJB
DATE 5/13/97		APPR. BY:
RON & PATRICIA ANN SHAFER THERSHAM DRIVE NAPOLEON, OHIO		BG# 1488
ROOF FRAMING PLANS		DWG. A-12

© ARTISTRY IN HOMEBUILDING 1993



© ARTISTRY IN HOMEBUILDING 1993



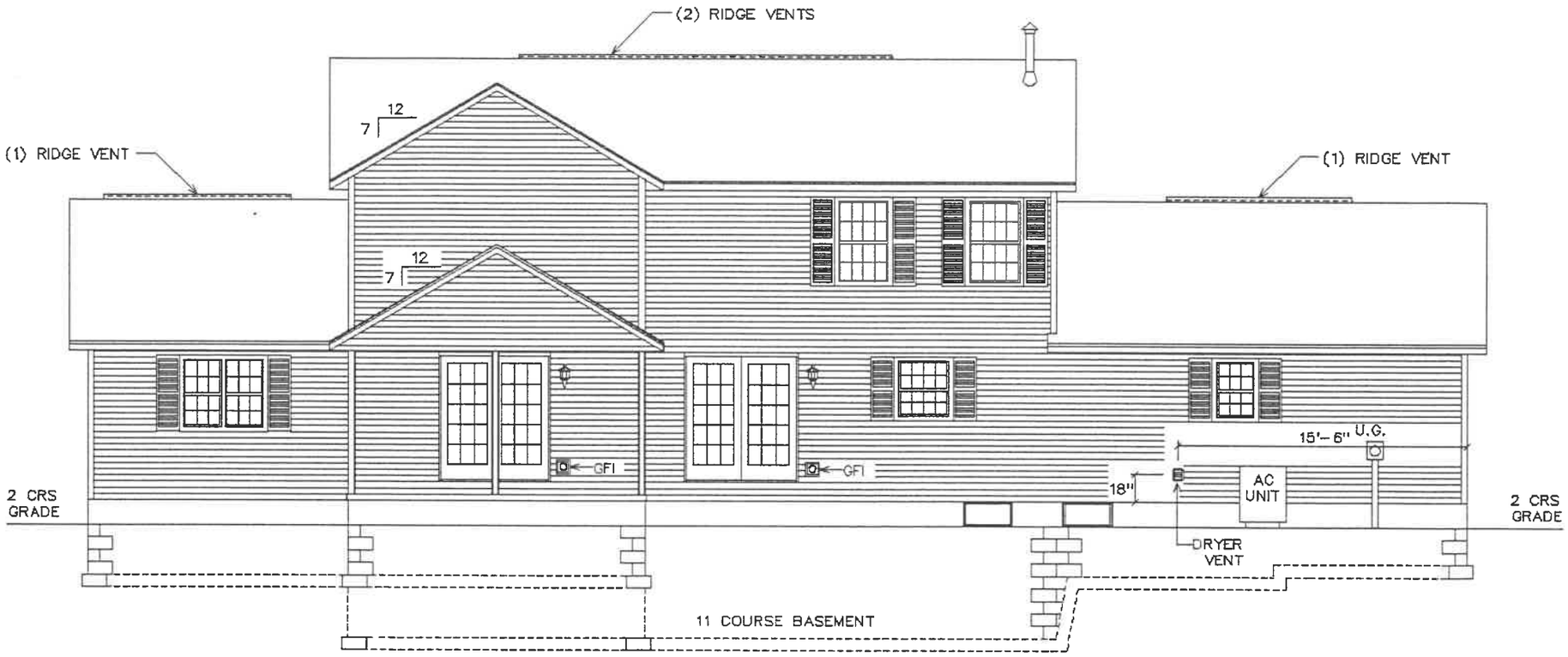
1 / A-1 FRONT ELEVATION

GENERAL NOTES:

1.) SHUTTERS ARE 12" WIDE.

WAYNE HOMES 0X141 BOTTICELLI		
SCALE 1/8"=1'	REV. 12/5/96	DRAWN BY: AJB
DATE 5/13/97		APPR. BY:
RON & PATRICIA ANN SHAFER THERSHAM DRIVE NAPOLEON, OHIO		BG# 1488
FRONT ELEVATION		DWG. A-1

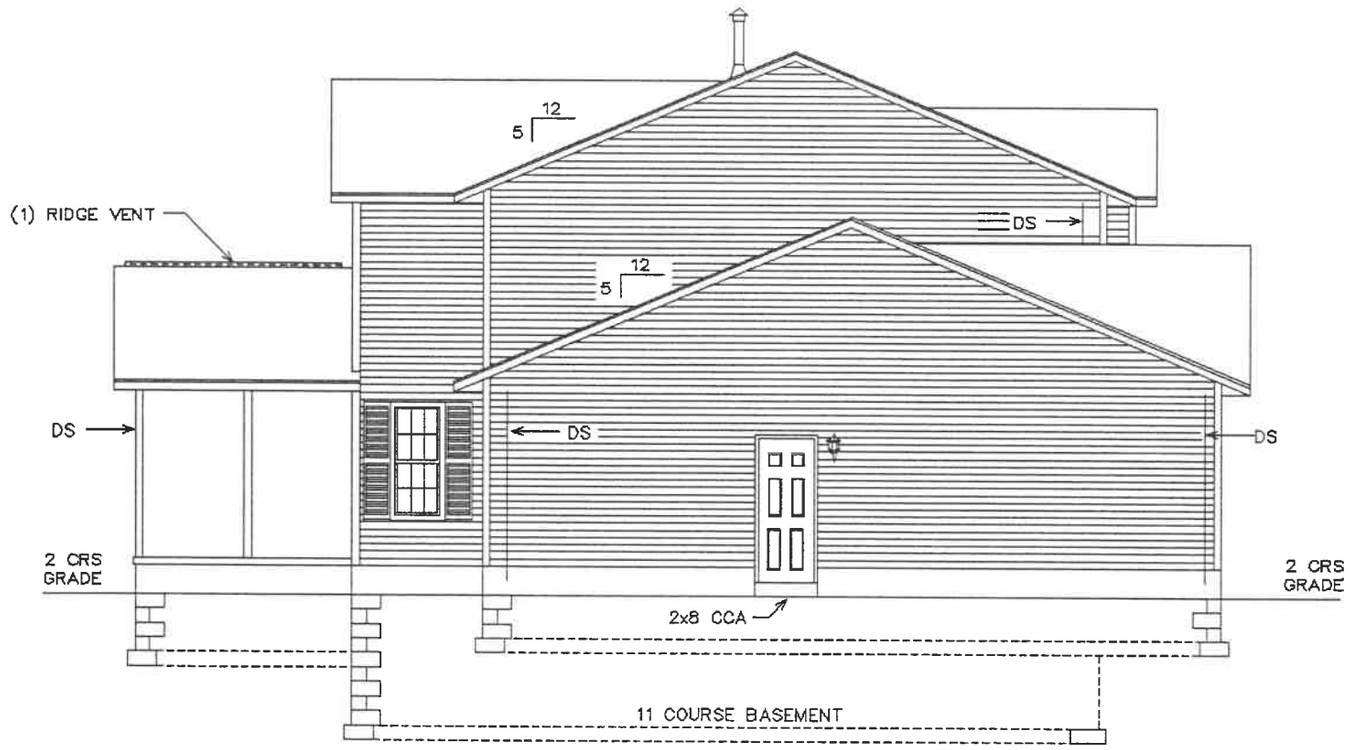
© ARTISTRY IN HOMEBUILDING 1993



1
A-2
REAR ELEVATION

WAYNE HOMES 0X141 BOTTICELLI		
SCALE 1/8"=1'	REV. 12/5/96	DRAWN BY: AJB
DATE 5/13/97		APPR. BY:
RON & PATRICIA ANN SHAFER THERSHAM DRIVE NAPOLEON, OHIO		BG# 1488
REAR ELEVATION		DWG. A-2

© ARTISTRY IN HOMEBUILDING 1993

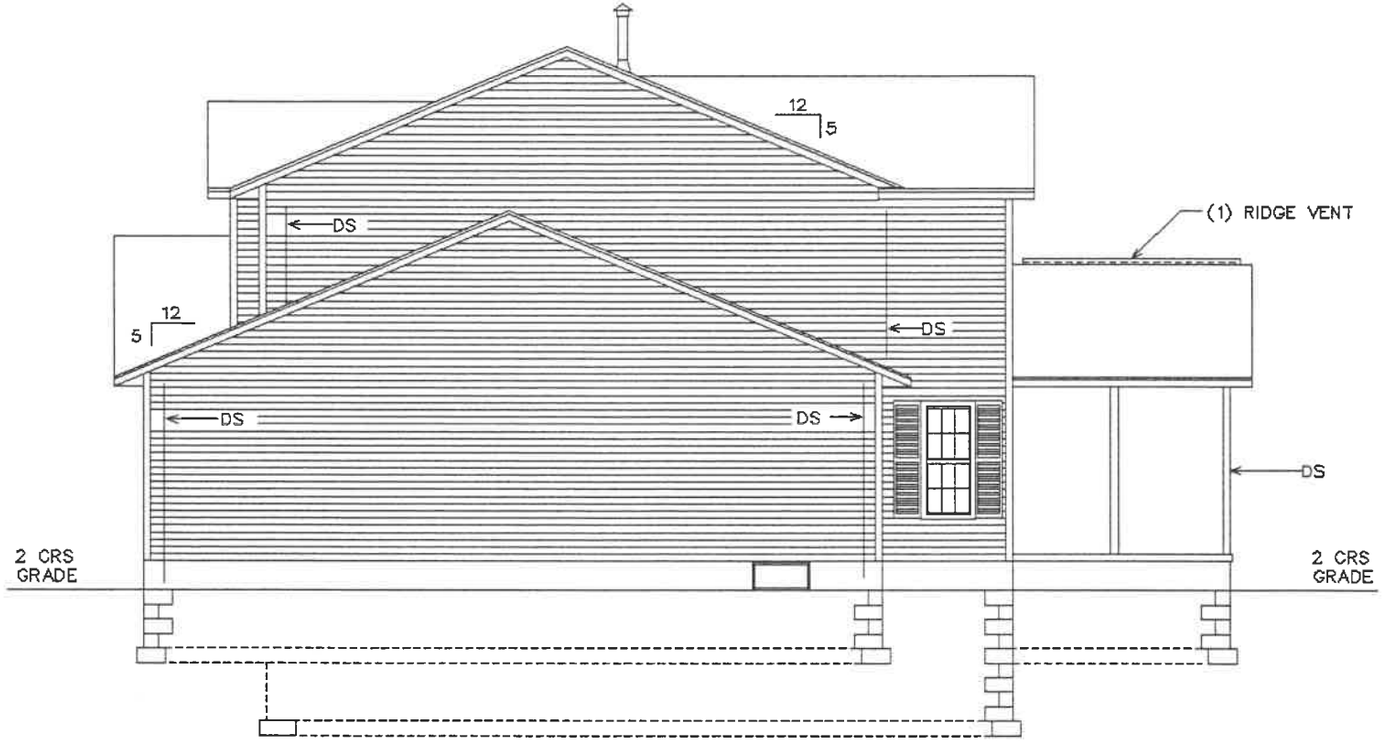


1
A-3

LEFT ELEVATION

WAYNE HOMES 0X141 BOTTICELLI		
SCALE 1/8"=1'	REV. 12/5/96	DRAWN BY: AJB
DATE 5/13/97		APPR. BY:
RON & PATRICIA ANN SHAFER THERSHAM DRIVE NAPOLEON, OHIO		BG# 1488
LEFT ELEVATION		DWG. A-3

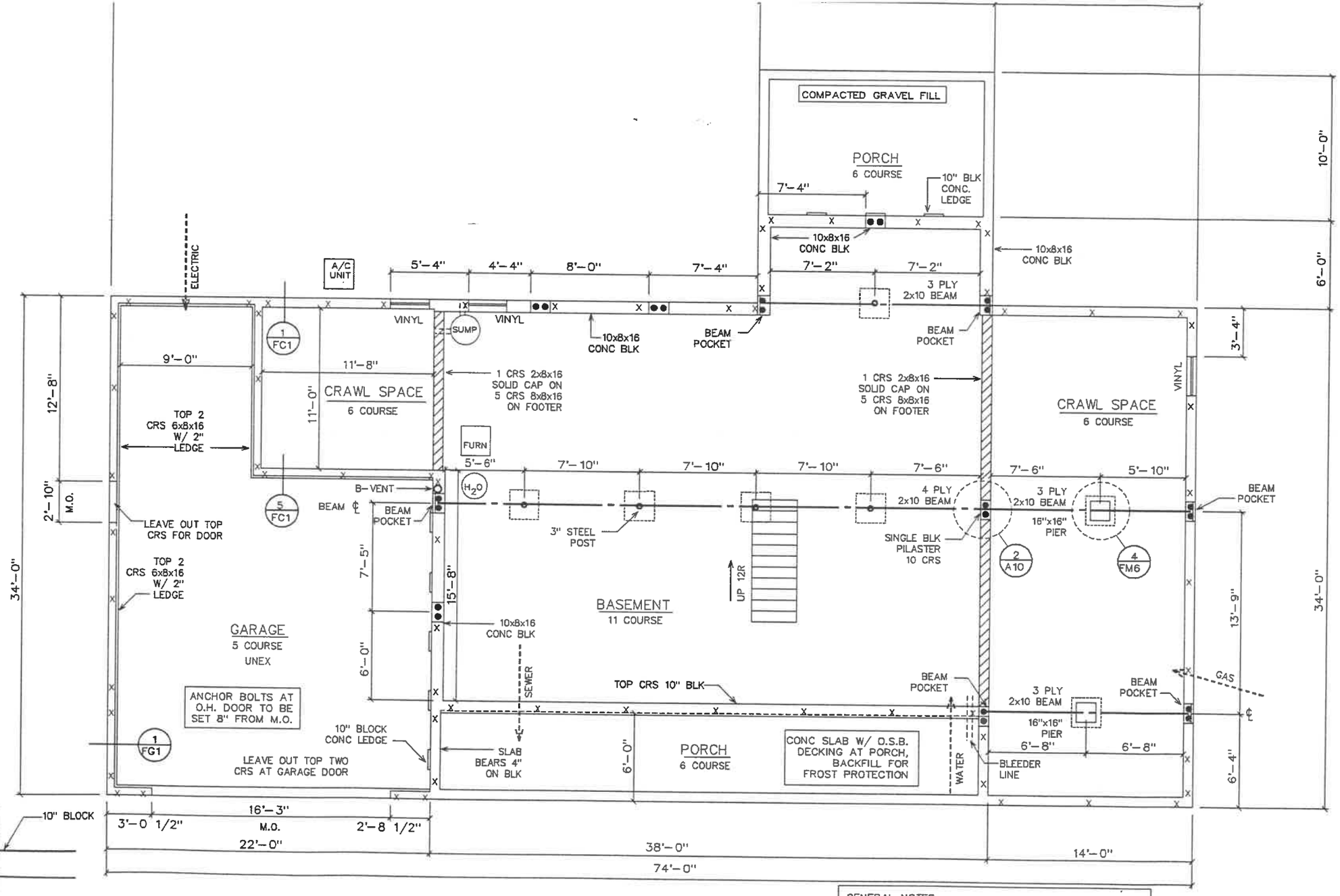
© ARTISTRY IN HOMEBUILDING 1993



1
A-4
RIGHT ELEVATION

WAYNE HOMES 0X141 BOTTICELLI		
SCALE 1/8"=1'	REV. 12/5/96	DRAWN BY: AJB
DATE 5/13/97		APPR. BY:
RON & PATRICIA ANN SHAFER THERSHAM DRIVE NAPOLEON, OHIO		BG# 1488
RIGHT ELEVATION		DWG. A-4

© ARTISTRY IN HOMEBUILDING 1993



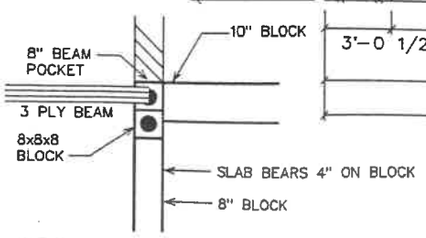
1 FC1

5 FC1

2 A10

4 FM6

1 FG1



2 A-5 BEAM POCKET DETAIL

1 A-5 FOUNDATION PLAN

DIAGONALS
74'-0" x 40'-0" = 84'-1 1/2"
74'-0" x 34'-0" = 81'-5"

WINDOW SCHEDULE			
SIZE	WIDTH R.O.	HEIGHT R.O.	QTY.

GENERAL NOTES:

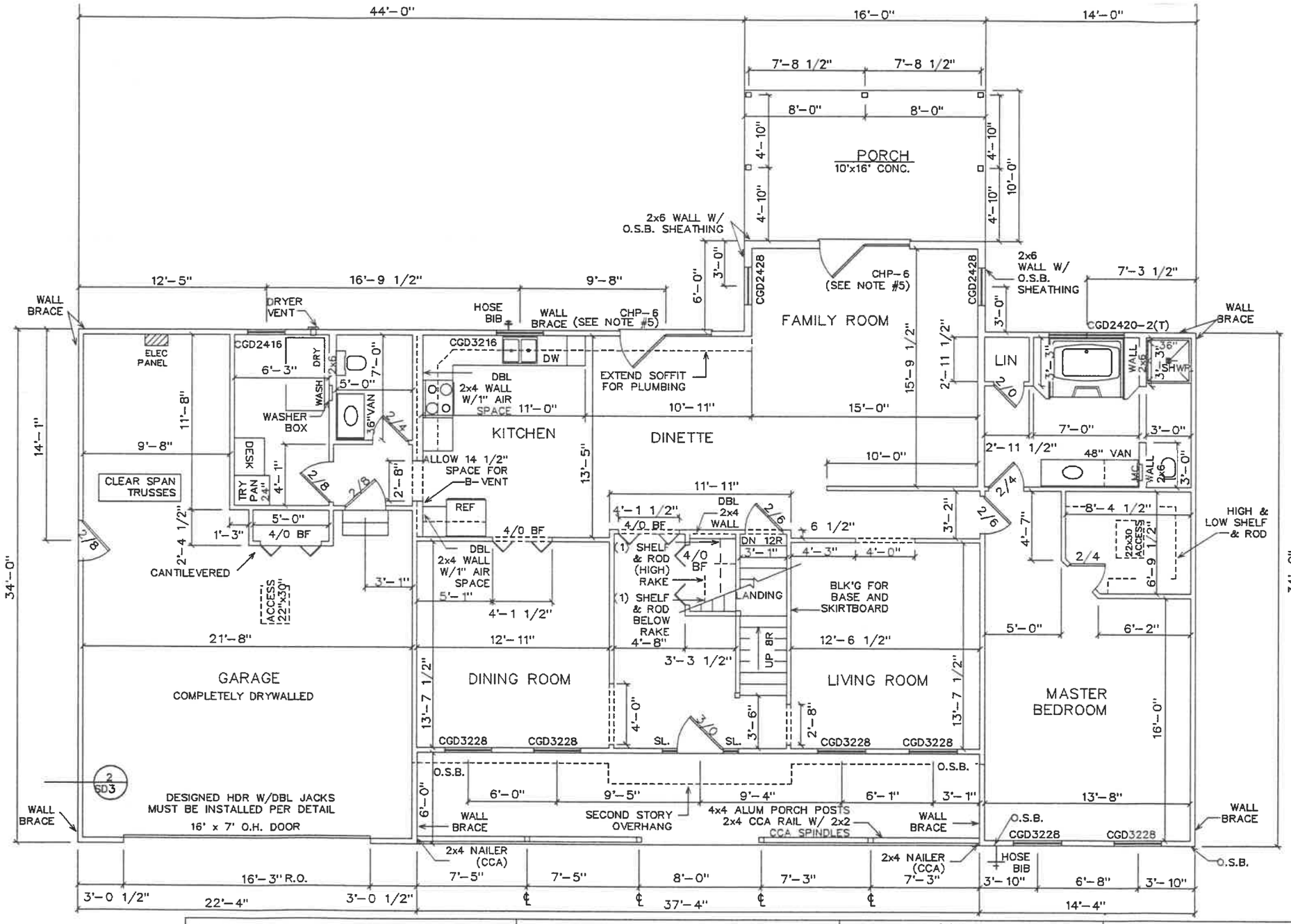
1.) PORCH LACED INTO BASEMENT WALL. PARGE & DAMPPROOF 2'-0" OF RETURN WALL.
2.) (2) ANCHOR BOLTS WITHIN 1FT. OF EACH CORNER AND 6FT. ON CENTER AT PERIMETER, HSE/GAR WALLS.
3.) 10" BLOCK EVERY 3RD BLOCK TO SUPPORT GARAGE FLOOR.
4.) POST FOOTER 24"x24"x12" 1' BELOW WALL FOOTER.
5.) ADD SINGLE CELL POURED CORE TO TOP OF AU

WAYNE HOMES OX141 BOTTICELLI

SCALE 1/8"=1'	REV.	DRAWN BY: AJB
DATE 5/13/97	12/1/96	APPR. BY:

RON & PATRICIA ANN SHAFER
THERSHAM DRIVE
NAPOLEON, OHIO

RC# 1488



1 / A-6 FIRST FLOOR PLAN

GENERAL NOTES:

1.) DBL STUDS AT CENTER BEARING WALLS. 1 STUD TO SUPPORT EACH JOIST AT HEAT RUNS.
2.) DBL 2X8 HDR AT ALL BEARING WALL OPENINGS OR AS NOTED.
3.) CAULK AND INSULATE BEHIND TUBS/SHOWERS AT EXTERIOR WALLS.
4.) ADD (1) SHT. O.S.B. AT EA. SIDE OF GARAGE DOOR.
6.) LEAVE 1" SPACE BETWEEN DBL EXTERIOR WALLS.
7.) SOLID BLOCKING AT GIRDER POINT LOADS.

WINDOW SCHEDULE

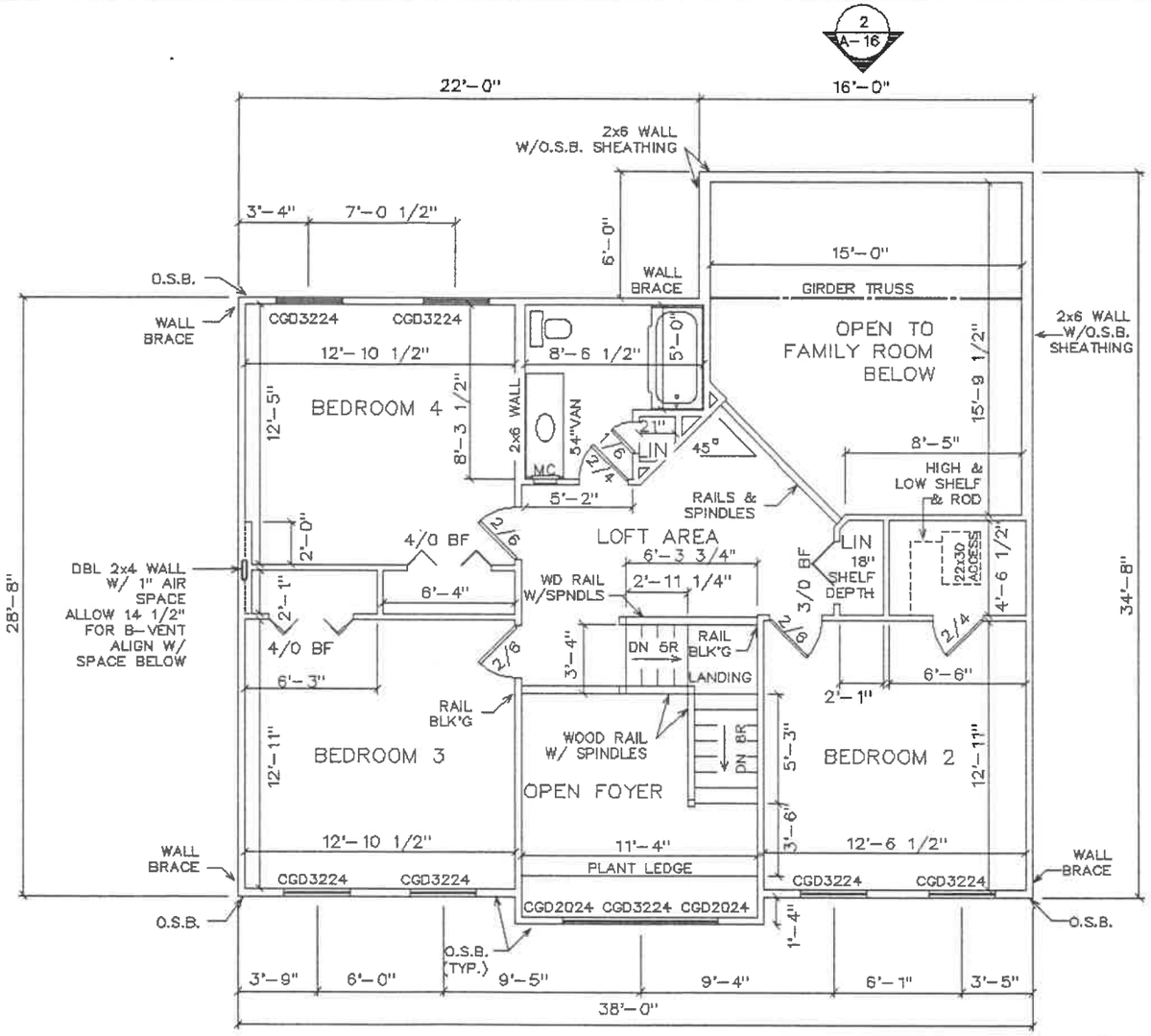
SIZE	WIDTH R.O.	HEIGHT R.O.	QTY.
CGD3228	3'-2"	5'-4 1/2"	6
CGD2420-2 (T)	4'-10 5/8"	4'-0 1/2"	1
CGD3216	3'-2"	3'-4 1/2"	1
CGD2416	2'-6"	3'-4 1/2"	1

WAYNE HOMES 0X141 BOTTICELLI

SCALE 1/8"=1' | REV. 12/5/96 | DRAWN BY: AJB
DATE 5/13/97 | APPR. BY:

RON & PATRICIA ANN SHAFER
THERSHAM DRIVE
NAPOLEON, OHIO

BG# 1488



1 A-7 SECOND FLOOR PLAN

GENERAL NOTES:

1.) CAULK AND INSULATE BEHIND TUBS/SHOWERS AT EXTERIOR WALLS.
2.) LEAVE 1" AIR SPACE BETWEEN DBL EXTERIOR WALLS.
3.) SOLID BLOCKING AT GIRDER POINT LOADS.
4.) CENTER TOILET BETWEEN WALL AND EDGE OF VANITY.

WINDOW SCHEDULE

SIZE	WIDTH R.O.	HEIGHT R.O.	QTY.
CGD3224	3'-2"	4'-8 1/2"	6
CGD2024/CG3224/ CGD2024	7'-3 5/8"	4'-8 1/2"	1

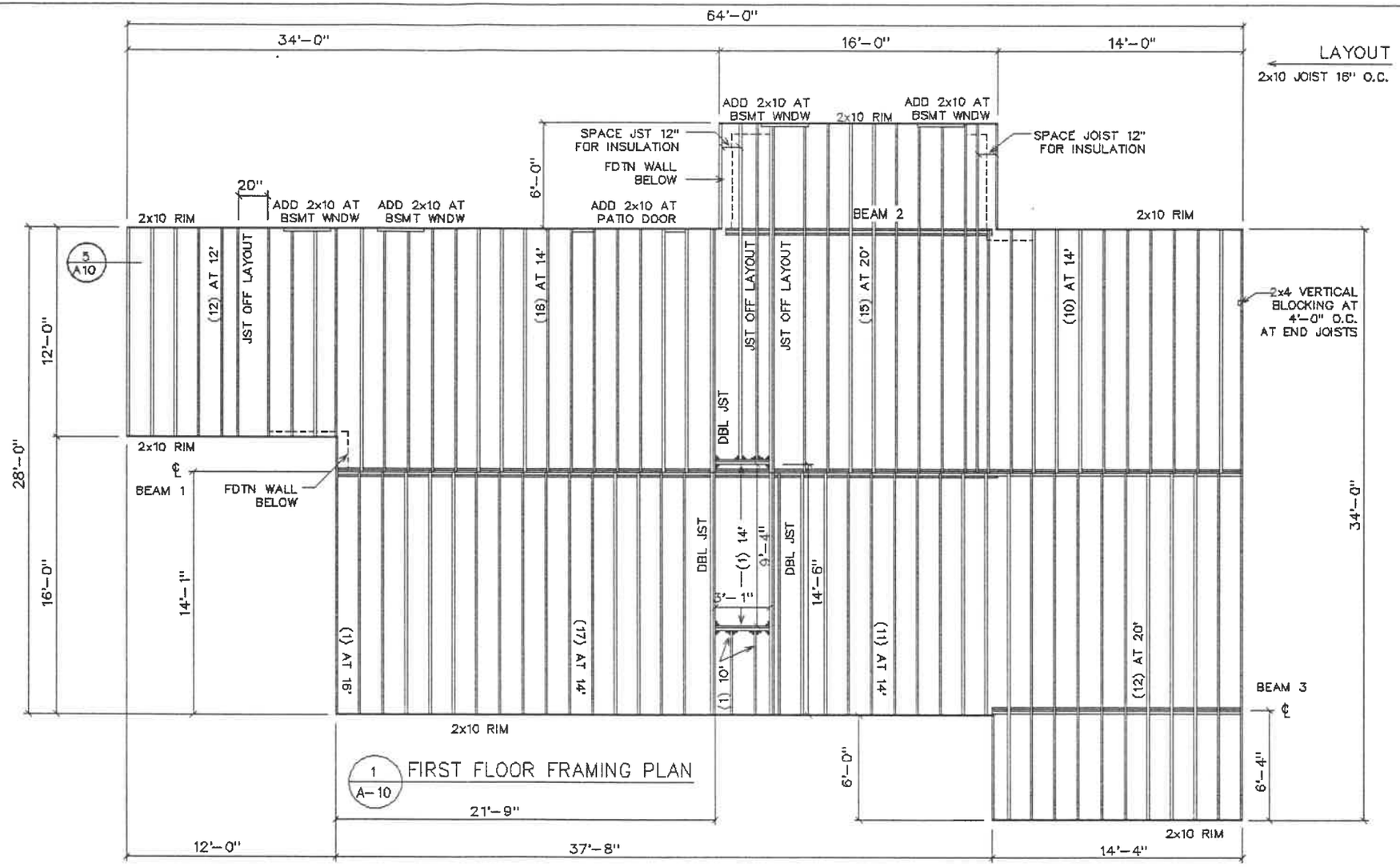
WAYNE HOMES DX141 BOTTICELLI

SCALE 1/8"=1' REV. 12/5/96 DRAWN BY: AJB
DATE 5/13/97 APPR. BY:

RON & PATRICIA ANN SHAFER
THERSHAM DRIVE
NAPOLEON, OHIO
BG# 1488

SECOND FLOOR PLAN DWG. A-7

© ARTISTRY IN HOMEBUILDING 1993

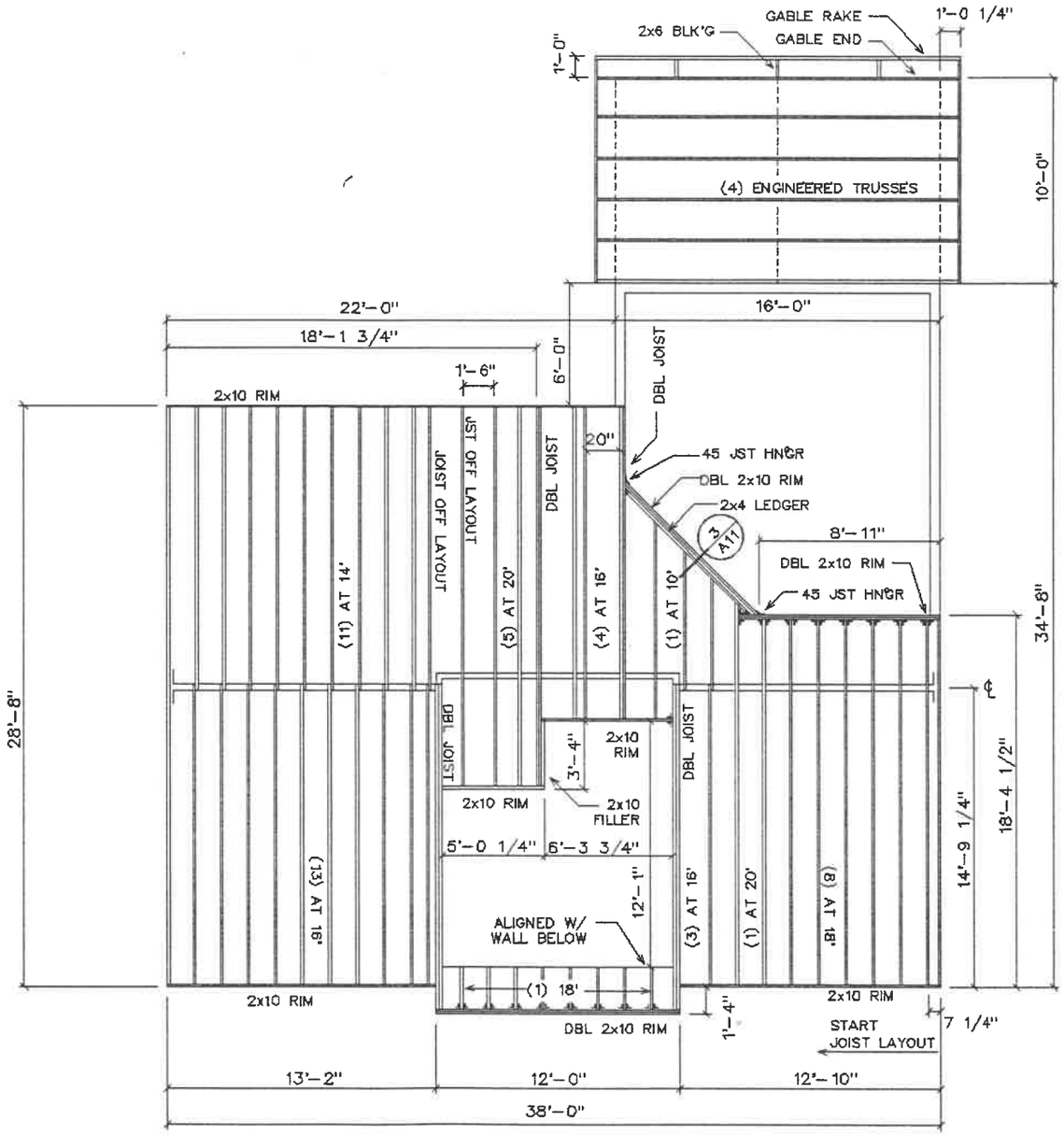


FRAMING NOTES:

1.) USE JOIST HANGERS WHERE NO SOLID BEARING IS PROVIDED.
2.) ADD 2x10 BLOCKING UNDER ALL OPENINGS IN BEARING WALL.
3.) ADD 2x4 VERTICAL BLOCKING AT 4' O.C. AT END JOISTS.

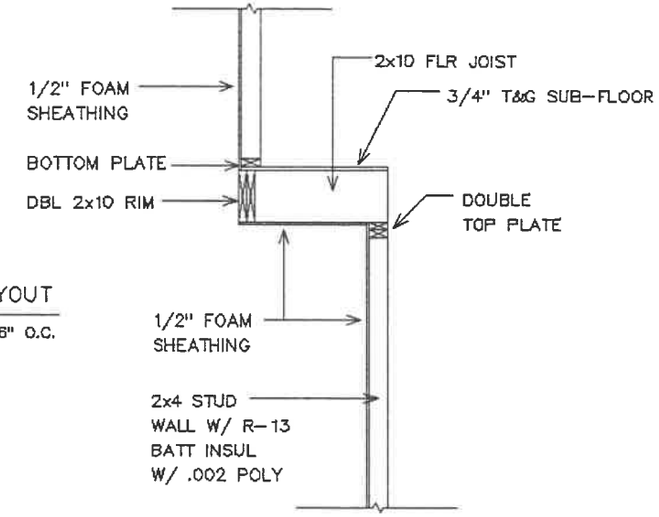
WAYNE HOMES 0X141 BOTTICELLI		
SCALE 1/8"=1'	REV. 12/5/96	DRAWN BY: AJB
DATE 5/13/97		APPR. BY:
RON & PATRICIA ANN SHAFER THERSHAM DRIVE NAPOLEON, OHIO		BG# 1488
FIRST FLOOR FRAMING PLAN		DWG. A-10

© ARTISTRY IN HOMEBUILDING 1993

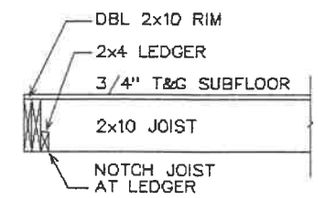


1 A-11 SECOND FLOOR FRAMING PLAN

LAYOUT
2x10 JOIST 16" O.C.



2 A-11 SECTION AT PLANT LEDGE



3 A-11 SECTION AT LOFT AREA

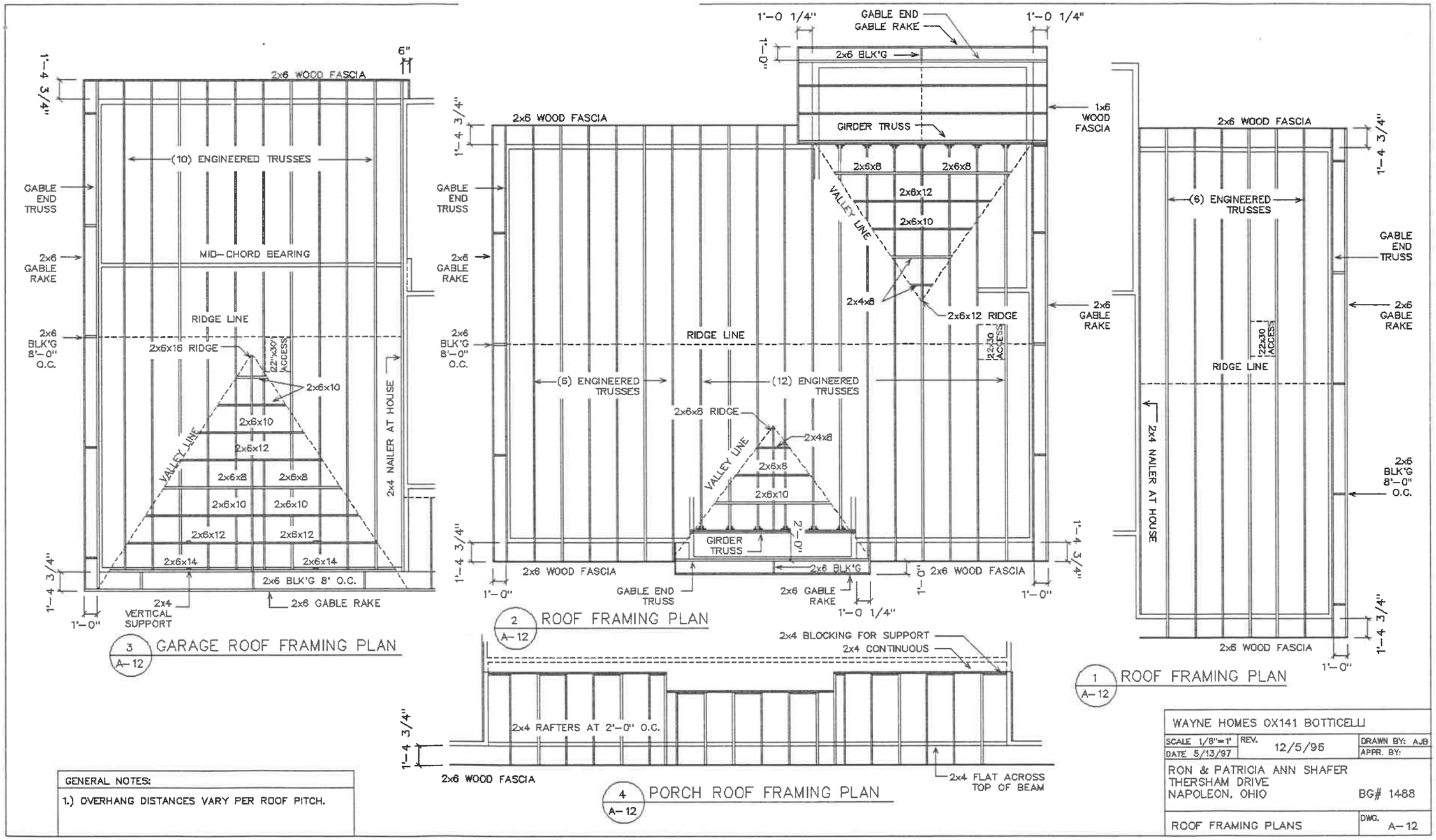
FRAMING NOTES:

1.) USE JOIST HANGERS WHERE NO SOLID BEARING IS PROVIDED.
2.) ADD 2x10 BLOCKING UNDER ALL OPENINGS IN BEARING WALL.
3.) ADD 2x4 VERTICAL BLOCKING AT 4' O.C. AT END JOISTS.

WAYNE HOMES 0X141 BOTTICELLI

SCALE 1/8"=1' DATE 5/13/97	REV. 12/5/96	DRAWN BY: AJB APPR. BY:
RON & PATRICIA ANN SHAFER THERSHAM DRIVE NAPOLEON, OHIO		BG# 1488
SECOND FLOOR FRAMING PLAN		DWG. A-11

© ARTISTRY IN HOMEBUILDING 1993



GENERAL NOTES:

1.) OVERHANG DISTANCES VARY PER ROOF PITCH.

WAYNE HOMES 0X141 BOTTICELLI

SCALE 1/8"=1'	REV. 12/5/96	DRAWN BY: AJB
DATE 5/13/97		APPR. BY:

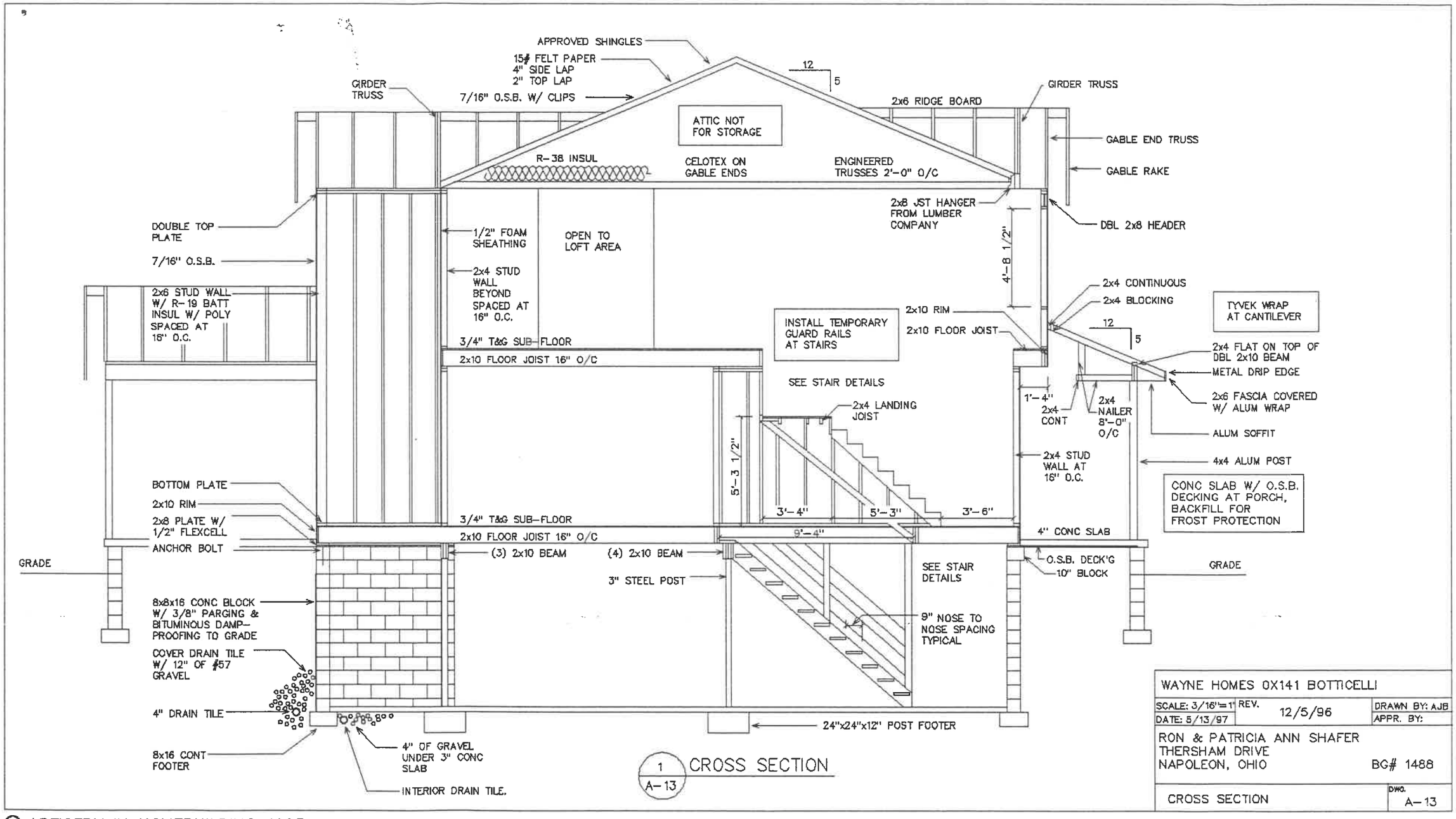
RON & PATRICIA ANN SHAFER
THERSHAM DRIVE
NAPOLEON, OHIO

BG# 1488

ROOF FRAMING PLANS

DWG. A-12

© ARTISTRY IN HOMEBUILDING 1993



WAYNE HOMES 0X141 BOTTICELLI		
SCALE: 3/16"=1' DATE: 5/13/97	REV. 12/5/96	DRAWN BY: AJB APPR. BY:
RON & PATRICIA ANN SHAFER THERSHAM DRIVE NAPOLEON, OHIO		BG# 1488
CROSS SECTION		DWG. A-13

© ARTISTRY IN HOMEBUILDING 1993