

COVER SHEET

A. MANUFACTURER INFORMATION:

MAILING ADDRESS: P.O. BOX 9000
 OXFORD, ME 04270

MANUFACTURING PLANT ADDRESS: ROUTE 121
 OXFORD, ME 04270

EXPIRATION DATE OF CURRENT CERTIFICATION: APRIL 30th 2013

MANUFACTURER STATE CERTIFICATION NUMBER: MAINE: MF70000112
 NEW HAMPSHIRE: M9308019
 VERMONT: 50171
 CONNECTICUT: N/A
 RHODE ISLAND: Y9588
 MASSACHUSETTS: MCS#137

B. THIRD PARTY INSPECTION AGENCY INFORMATION:

3rd PARTY INSPECTION AGENCY: T.R. ARNOLD & ASSOCIATES, INC.
 3rd PARTY INSPECTION AGENCY AUTHORIZATION: I.A. #03
 AGENCY AUTHORIZATION EXPIRATION DATE: APRIL 30th 2013
 KEISER MODULAR SYSTEMS MANUAL APPROVAL DATE: APRIL 27th 2012

KEISER INDUSTRIES CERTIFIES THAT THIS DOCUMENT CONFORMS WITH THE SYSTEMS APPROVALS AND SPECIFICATIONS APPROVED BY T.R.A. AND IS IN COMPLIANCE WITH THE FOLLOWING STATE CODES: (ME) NH, MA, VT, RI, CT, RT

C. LOCATIONS OF INFORMATION LABELS:

DATA PLATE: ONE PER DWELLING (SEE FLOOR PLAN)

STATE LABEL: ONE PER MODULE (SEE FLOOR PLAN) (MA, N.H., CT, R.I.)

TRA LABEL: ONE PER MODULE (SEE FLOOR PLAN) (ME, VT)

D. INDEX OF INFORMATION:

TOTAL NUMBER OF SHEETS IN EACH SET: 20

DWG/PG#	DESCRIPTION	DWG. DATE	REV. DATE
1-2	ENERGY CALCULATION	10/11/10	7/27/12
1-3	DATA SHEET	10/11/10	7/27/12
1-4	SEALED TRUSS PRINT (U-1032 & U-1033)	10/12/10	8/1/12
1-4A	SEALED TRUSS PRINT (U-1111)		8/1/12
1	COVER SHEET	10/13/10	8/2/12
2	1st FLR PLAN	10/11/10	7/27/12
2A	2nd FLR PLAN	10/11/10	7/27/12
3	ELEVATIONS	10/11/10	7/27/12
4	FOUNDATION PLANS	10/11/10	7/27/12
5	1st FLR ELECTRICAL PLAN	10/11/10	7/27/12
5A	2nd FLR ELECTRICAL PLAN	10/11/10	7/27/12
6	HEAT PLANS		BY OTHERS
7	CONSTRUCTION DATA & REF. SHEET	10/11/10	7/27/12
8	CROSS SECTION	10/11/10	7/27/12
8A	ROOF CROSS SECTION	10/13/10	8/1/12
8B	OFFSET ROOF CROSS SECTION	10/13/10	8/1/12
8C	FLOOR FRAMING LAYOUT		7/26/12
9	1st FLR VENT PLAN	10/7/10	7/27/12
9A	2nd FLR DRAIN PLAN	10/7/10	7/27/12
9C	PLUMBING LINE SCHEMATIC	10/7/10	7/27/12
12	MODULAR FABRICATED STAIR DESIGN		7/26/12

E. BUILDING INFORMATION:

BUILDER: HALLMARK HOMES

BUILDER'S ADDRESS: PO BOX 113

CITY, STATE, ZIP: TOPSHAM, ME 04086

SEND PLANS TO: 619 LEWISTON ROAD; ROUTE 196

RHODE ISLAND BUILDER'S LIC. #:

PROJECT LOCATION: 25 LUTHER STREET; LOT 15, PORTLAND, ME 04108

MODEL DESIGNATION: 22'x28' w/16'x13' CUSTOM COLONIAL

USE GROUP: SINGLE FAMILY CONSTRUCTION CLASSIFICATION: VB

AREA: 1st FLR: 826.583 2nd FLR: 617.75 3rd FLR: N/A

VOLUME OF ENCLOSED SPACE: 11555 CUBIC FEET

HEIGHT ABOVE SILL: 29'-3 1/4" STORIES: 2

DESIGN OCCUPANCY LOAD:
 1st FLR: N/A 2nd FLR: N/A 3rd FLR: N/A

SPECIAL SYSTEMS: FIRE ALARM TYPE: SMOKE DETECTORS U.L. 217-77
 FIRE SUPPRESSION SYSTEM: N/A
 (OTHER) : WHEN FLOOR AREA EXCEEDS 1200 S.F.
 (2) U.L. 217-77 SMOKE DETECTORS ARE REQ'D. (RHODE ISLAND ONLY)

DESIGN LIVE LOADS: WALLS: 21 826.58 ROOF: 42 PSF 1st FLR: 40 PSF
 2nd FLR: 30 PSF (CAPE / COLONIAL) N/A (RANCH)
 3rd FLR: N/A CORRIDORS: N/A INTERIOR WALLS: 5 PSF
 STAIRS: 30 PSF (CAPE / COLONIAL) N/A (RANCH)
 WIND HORIZONTAL: 90 MPH
 EXPOSURE RATING: B UNLESS OTHERWISE SPECIFIED BY ON-SITE BUILDER
 GLAZING D.P. RATING: DP 40
 SEISMIC HAZARD EXPOSURE: CATEGORY "c"
 SPECIAL USE PROVISIONS: NOT TO BE BUILT WITHIN FIRE UNIT LIMITS
 MUST BE LOCATED 6' FROM LOT LINE

F. HEATING SYSTEM INFORMATION:

SYSTEM TYPE: ELECTRIC RESISTANCE BASE BOARD & SPLIT-LOOP DUCTLESS
 ELECTRIC HEAT PUMPS & A/C UNITS -- ON-SITE BY OTHERS

DESIGN TEMPRATURE DIFFRENCE: -20 OUTSIDE 72 INSIDE 92 TOTAL D.T.D.

FUEL: ELECTRIC, NATURAL, LPG, OIL

CHIMNEY/VENTING SYSTEM TYPE: OTHER THAN ELECTRIC HEAT-MASONRY
 CHIMNEY BY BUILDER PER STATE & LOCAL BUILDING CODE OR AN APPROVED EQUAL.

BASEMENT:
 IF HOT WATER BOILER AND/OR WATER HEATER ARE INSTALLED IN BASEMENT,
 THEN EITHER BASEMENT FOUNDATION WALLS MUST BE INSTALLED PER
 STATE & LOCAL BUILDING CODE, OR THE BELOW THE FLOOR WATER LINES
 MUST BE INSULATED PER STATE & LOCAL BUILDING CODE.

MAINE
 Pg= 60 PSF
 GROUND SNOW

G. EXTERIOR ENVELOPE THERMAL PERFORMANCE INFORMATION:

ELEMENT	CODE REQUIREMENT R-VALUE/U-VALUE	ACTUALS R-VALUE/U-VALUE
EXT. WALL	R-19/.05	R-40/.025
FLOOR OVER UNCONDITIONED BASEMENT OR EXTERIOR	R-19/.05	N/A
FLAT CEILING w/NO DECKING BEHIND K-WALL	R-38/.026	R-60/.0167
FLAT CEILING UNDER DECK IF UNFINISHED ABOVE	R-30/.033	N/A
VAULT CEILING AND SLOPE RAKES	R-38/.026	N/A
ENTRY DOORS	R-2.86/.35	R-6.67/.15
SPECIALTY DOORS	R-2.22/.45	R-3.7/.27
WINDOWS	R-2.86/.35	R-3.57/.28
SKYLIGHT	R-1.67/.6	N/A
FOUNDATIONS	R-10/.10	R-10/.10

H. ATTIC VENTILATION:

REQUIRED: (1) SQ. FT. PER (300) SQ. FT. OF CEILING AREA.
 ACTUAL: 865.83 SQ. FT. CEILING AREA
 2.89 SQ. FT. VENTILATION REQUIRED
 3.49 SQ. FT. PROVIDED AT EAVES. (6.2 SQ IN. PER LIN. FT.)
 N/A SQ. FT. PROVIDED AT GABLE ENDS (54 SQ. IN. PER END)
 5.14 SQ. FT. PROVIDED AT RIDGE. (18 SQ. IN. PER LIN. FT.)
 TOTAL: 8.62 SQ. FT. PROVIDED

H-1. BASEMENT/CRAWL SPACE VENTILATION:

REQUIRED: (1) SQ. FT. PER (1500) SQ. FT. OF FLOOR AREA.
 TOTAL MINIMUM: 0.55 SQ. FT. VENTILATION REQUIRED BY OTHERS

I. APPLICABLE CODES:

2003 INTERNATIONAL RESIDENTIAL CODE w/STATE AMENDMENTS
 2003 INTERNATIONAL PLUMBING CODE
 2008 NFPA-70 NATIONAL ELECTRICAL CODE
 2001 NFPA-31 INSTALLATION OF OIL BURNING EQUIPMENT
 2003 NFPA-101 LIFE SAFETY CODE w/STATE AMENDMENTS
 2005 MAINE ENERGY CODE
 2009 INTERNATIONAL ENERGY CONSERVATION CODE
 2002 NFPA-54 NATIONAL FUEL GAS CODE
 2001 NFPA-58 NATIONAL LP GAS CODE
 MMHB RULES FOR RADON MITIGATION

KEISER INDUSTRIES INC.

P.O. BOX 9000 RTE. 121
 OXFORD, ME 04270

TEL: (207) 539-8883
 FAX: (207) 539-4446

DWG NO.:
 KIM 3975

LAYER NAME:
 COVER

STYLE:
 22'x28' w/16'x13'
 CUSTOM COLONIAL

DEALER:
 HALLMARK

CUSTOMER:
 HOMESTART - LOT15

DATE:
 10/13/10

DRAWN BY:
 RT

CHECKED BY:

CODES:
 2003 IRC
 1&2 FAMILY DWELLING

REVISIONS

DATE ITEM

8/2/12-RT

SCALE:
 NOT TO SCALE

SHEET NO.

1

DWG NO.
KIM 3975

GOTO VIEW:
1SUBMTL

DATE:
10/11/10

SUBMITTAL
1st FLR PLAN

R:\DRAWINGS\JOBS\KIM\0402\CLONIAL\3975-HOMESTART_LOT15 (10-251)
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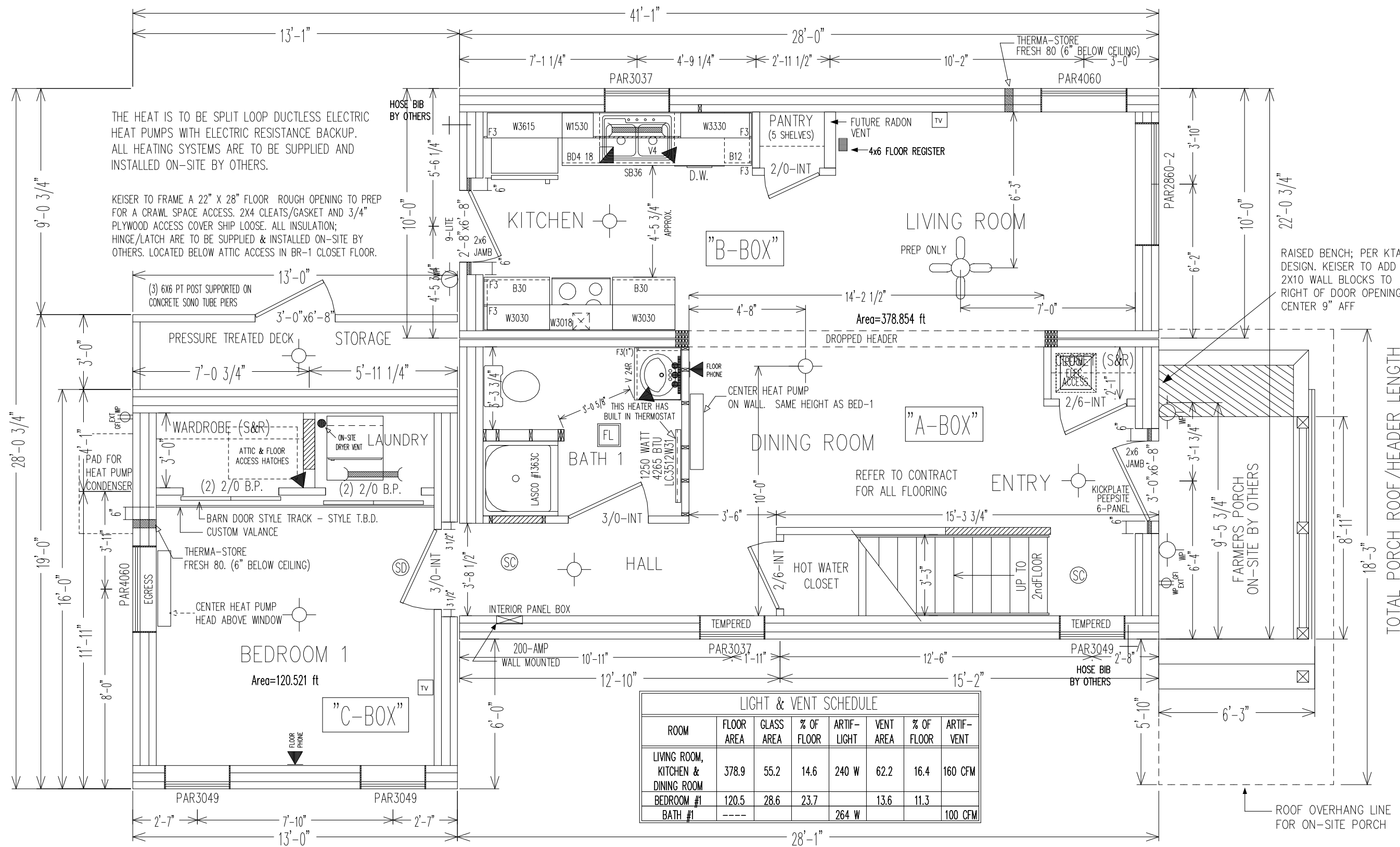
REVISIONS

DATE	ITEM
7/27/12-RT	

SCALE:
1/4"=1'-0"

SHEET NO.

2



1. KITCHEN RANGE HOODS & MICROWAVES TO BE VENTED. EXHAUST TO EXTERIOR OF HOME

2. ALL BATHROOMS MUST BE EQUIPPED WITH A EXHAUST FAN. FAN TO HAVE A MINIMUM RATING OF 50 CFM AND RATED FOR A SOUND AT A MAXIMUM OF 3 SONE. EXHAUST TO EXTERIOR OF HOME.

3. ALL CLOTHES DRYER TO BE VENTED TO EXTERIOR OF HOME.

4. A 3" MINIMUM DIAMETER RADON VENT PIPE MUST BE INSTALLED UP THROUGH ALL THE BUILDING FLOORS AND INTO THE ATTIC ABOVE CONDITIONED SPACE TO ALLOW A 3' VERTICAL WORKSPACE. POWER SHALL BE RUN FROM A GENERAL LIGHTING

CIRCUIT (NON-AFCI CIRCUIT) AND SHALL BE TERMINATED IN AN APPROVED J-BOX LOCATED IN THE ATTIC, IN THE AREA OF THE RADON VENT PIPE. VENT PIPE AND JUNCTION BOX MUST BE CAPPED & IDENTIFIED "FOR FUTURE RADON MITIGATION SYSTEM". IT IS THE RESPONSIBILITY OF THE GC TO SEAL ALL POTENTIAL RADON ENTRY ROUTES IN THE FOUNDATION

LEVEL WALLS, FLOOR & CEILING. TYPICAL ENTRY ROUTES ARE OPENINGS AROUND BATHTUBS, SHOWERS, WATER CLOSETS, PIPES, WIRES OR OTHER OBJECTS THAT PENETRATE FLOOR & WALL ASSEMBLIES. ENTRY ROUTES SHALL BE SEALED WITH A SUITABLE SEALANT APPLIED IN ACCORDANCE WITH THE PRODUCT MANUFACTURER'S RECOMMENDATIONS.

5. ALL JOINTS, SEAMS, PENETRATIONS, OPENINGS BETWEEN WINDOW AND DOOR ASSEMBLIES AND THEIR RESPECTIVE JAMBS AND FRAMING, AND OTHER SOURCES OF AIR LEAKAGE (INFILTRATION AND EXFILTRATION) THROUGH THE BUILDING THERMAL ENVELOPE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED, WRAPPED OR OTHERWISE SEALED TO LIMIT UNCONTROLLED AIR MOVEMENT. (2003 IRC, N102.110)

6. DRAFT STOP MATERIALS SHALL BE DETERMINED IN ACCORDANCE WITH THE NATIONAL FENESTRATION RATING COUNCIL, INC. (NFRC) 100-2004.

DWG NO.
KIM 3975

GOTO VIEW:
2SUBMTL

DATE:
10/11/10

SUBMITTAL
2nd FLR PLAN
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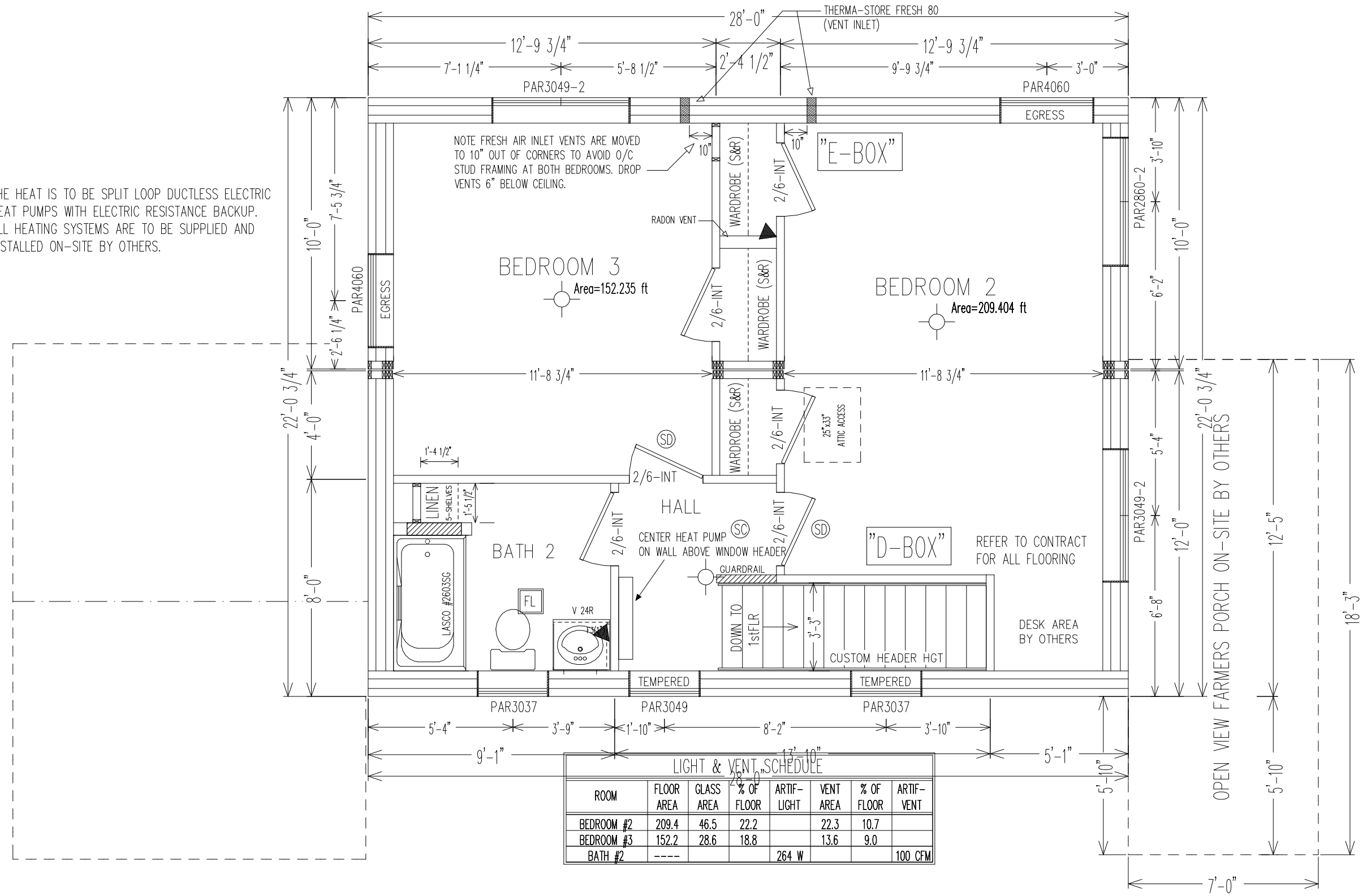
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DATE	ITEM
7/27/12-RT	

SCALE:
1/4"=1'-0"

SHEET NO.
2A

THE HEAT IS TO BE SPLIT LOOP DUCTLESS ELECTRIC HEAT PUMPS WITH ELECTRIC RESISTANCE BACKUP. ALL HEATING SYSTEMS ARE TO BE SUPPLIED AND INSTALLED ON-SITE BY OTHERS.



28'-0" LIGHT & VENT SCHEDULE

ROOM	FLOOR AREA	GLASS AREA	% OF FLOOR	ARTIF-LIGHT	VENT AREA	% OF FLOOR	ARTIF-VENT
BEDROOM #2	209.4	46.5	22.2		22.3	10.7	
BEDROOM #3	152.2	28.6	18.8		13.6	9.0	
BATH #2	---			264 W			100 CFM

ME STATE NOTES:

- KITCHEN RANGE HOODS & MICROWAVES TO BE VENTED. EXHAUST TO EXTERIOR OF HOME.
- ALL BATHROOMS MUST BE EQUIPPED WITH A EXHAUST FAN. FAN TO HAVE A MINIMUM RATING OF 50 CFM AND RATED FOR A SOUND AT A MAXIMUM OF 3 SONE. EXHAUST TO EXTERIOR OF HOME.
- ALL CLOTHES DRYER TO BE VENTED TO EXTERIOR OF HOME.
- A 3" MINIMUM DIAMETER RADON VENT PIPE MUST BE INSTALLED UP THROUGH ALL THE BUILDING FLOORS AND INTO THE ATTIC ABOVE CONDITIONED SPACE TO ALLOW A 3' VERTICAL WORKSPACE. POWER SHALL BE RUN FROM A GENERAL LIGHTING CIRCUIT (NON-AFCI CIRCUIT) AND SHALL BE TERMINATED IN AN APPROVED J-BOX LOCATED IN THE ATTIC, IN THE AREA OF THE RADON VENT PIPE. VENT PIPE AND JUNCTION BOX MUST BE CAPPED & IDENTIFIED "FOR FUTURE RADON MITIGATION SYSTEM". IT IS THE RESPONSIBILITY OF THE GC TO SEAL ALL POTENTIAL RADON ENTRY ROUTES IN THE FOUNDATION LEVEL WALLS, FLOOR & CEILING. TYPICAL ENTRY ROUTES ARE OPENINGS AROUND BATHTUBS, SHOWERS, WATER CLOSETS, PIPES, WIRES OR OTHER OBJECTS THAT PENETRATE FLOOR & WALL ASSEMBLIES. ENTRY ROUTES SHALL BE SEALED WITH A SUITABLE SEALANT APPLIED IN ACCORDANCE WITH THE PRODUCT MANUFACTURER'S RECOMMENDATIONS.
- ALL JOINTS, SEAMS, PENETRATIONS, OPENINGS BETWEEN WINDOW AND DOOR ASSEMBLIES AND THEIR RESPECTIVE JAMBS AND FRAMING, AND OTHER SOURCES OF AIR LEAKAGE (INFILTRATION AND EXFILTRATION) THROUGH THE BUILDING THERMAL ENVELOPE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED, WRAPPED OR OTHERWISE SEALED TO LIMIT UNCONTROLLED AIR MOVEMENT. (2003 IRC, N102.1.10)
- DRAFT STOP MATERIALS SHALL BE DETERMINED IN ACCORDANCE WITH THE NATIONAL FENESTRATION RATING COUNCIL, INC. (NFRC), NFRC 100-2004.

DWG NO.
KIM 3975

GOTO VIEW:
ELEV

DATE:
10/11/10

ELEVATIONS

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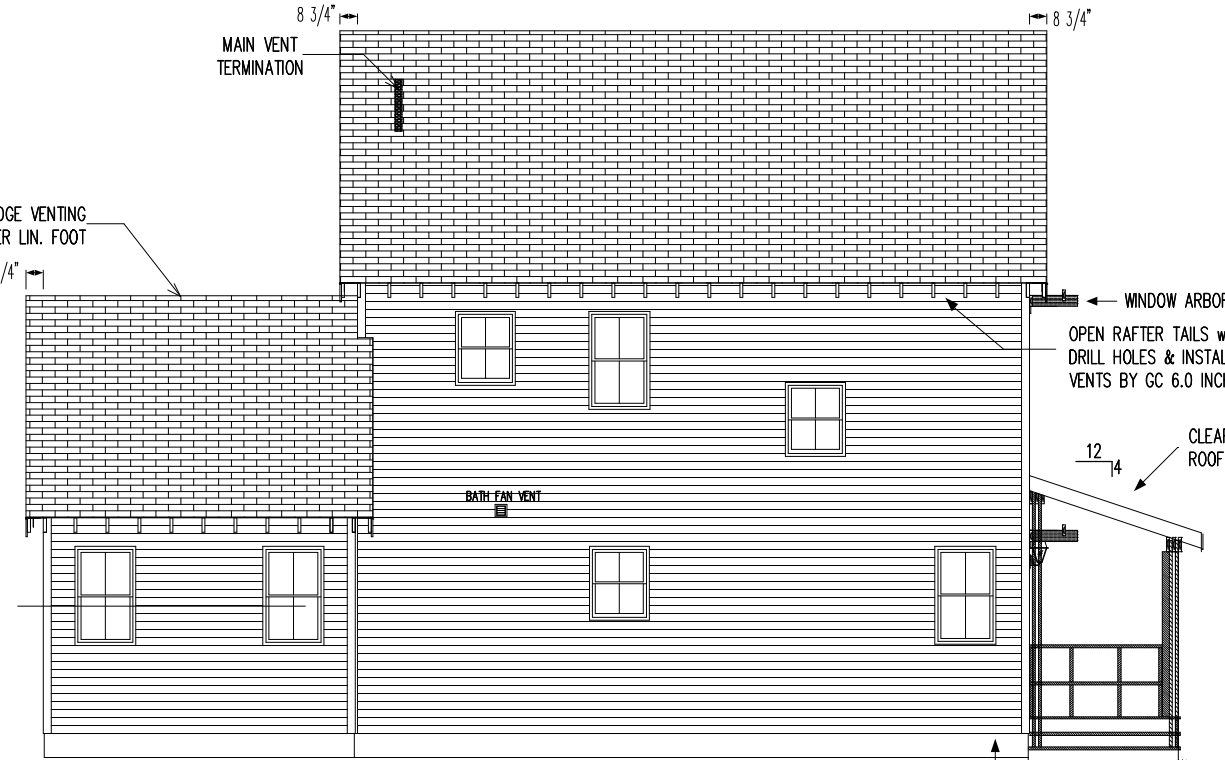
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7/27/12-RT	

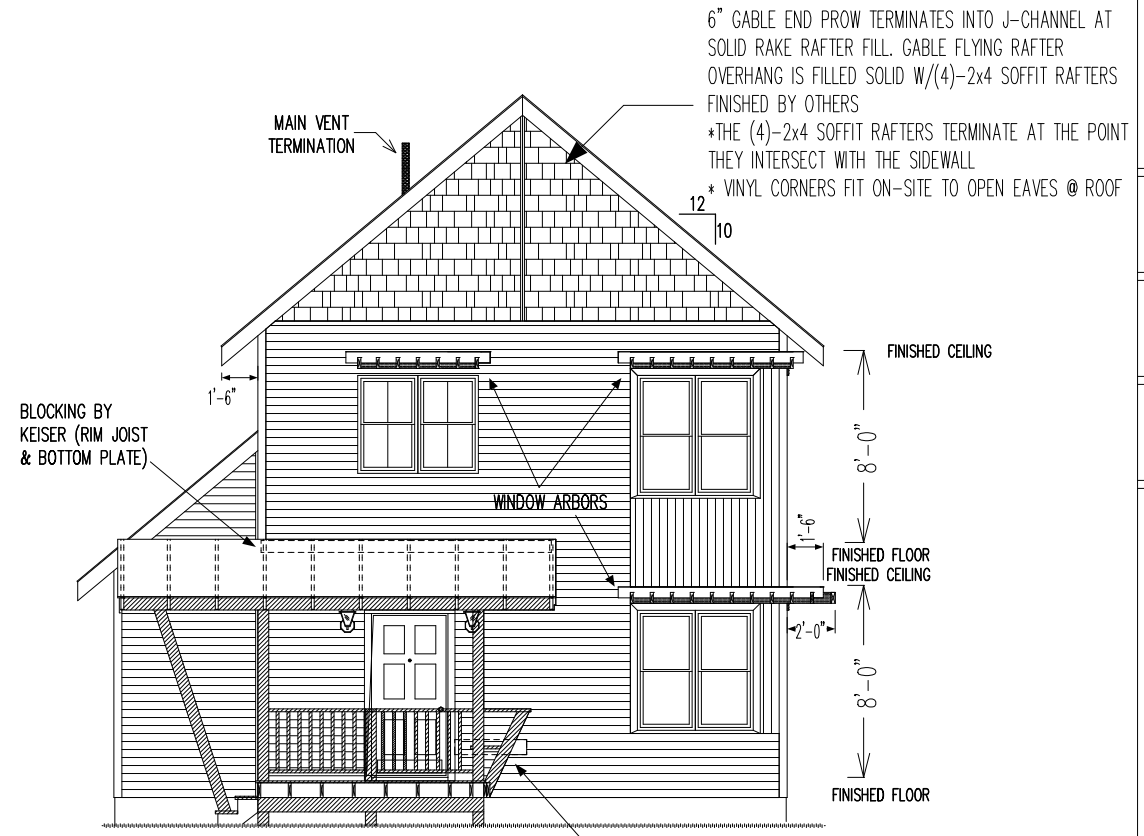
SCALE:
NOT TO SCALE

SHEET NO.
3

ELEVATIONS INTENDED FOR CONCEPTUAL PURPOSES ONLY; NOT TO BE USED FOR CONSTRUCTION PURPOSES.



WEST ELEVATION
LEFT

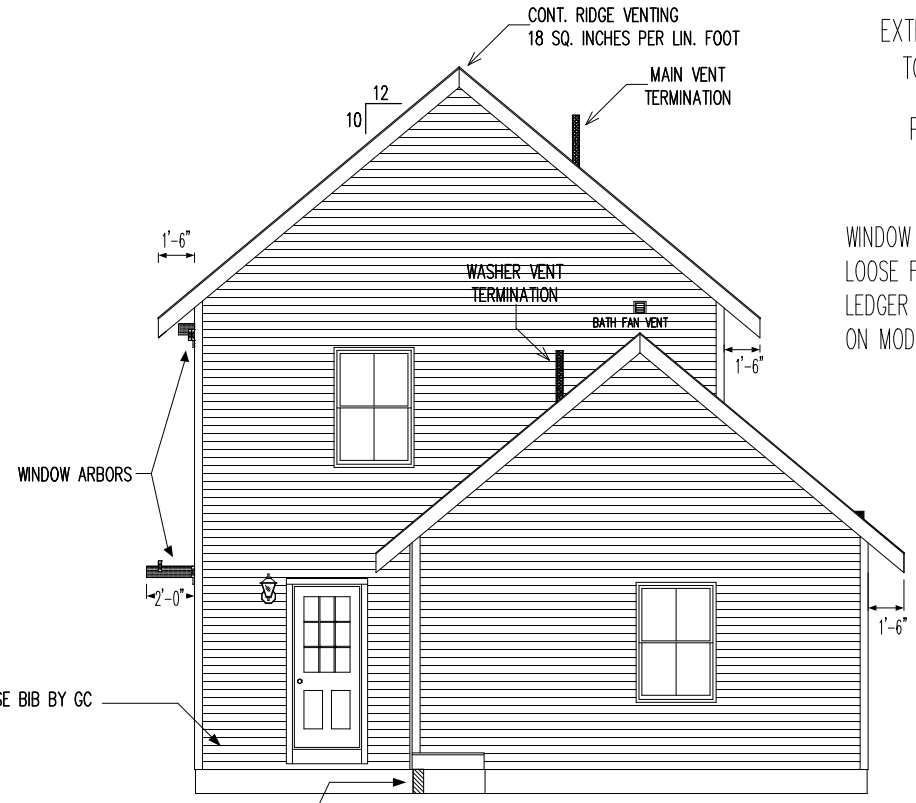


SOUTH ELEVATION
FRONT

EXTERIOR STEPS, DECK SEATING TO BE ON-SITE BY OTHERS

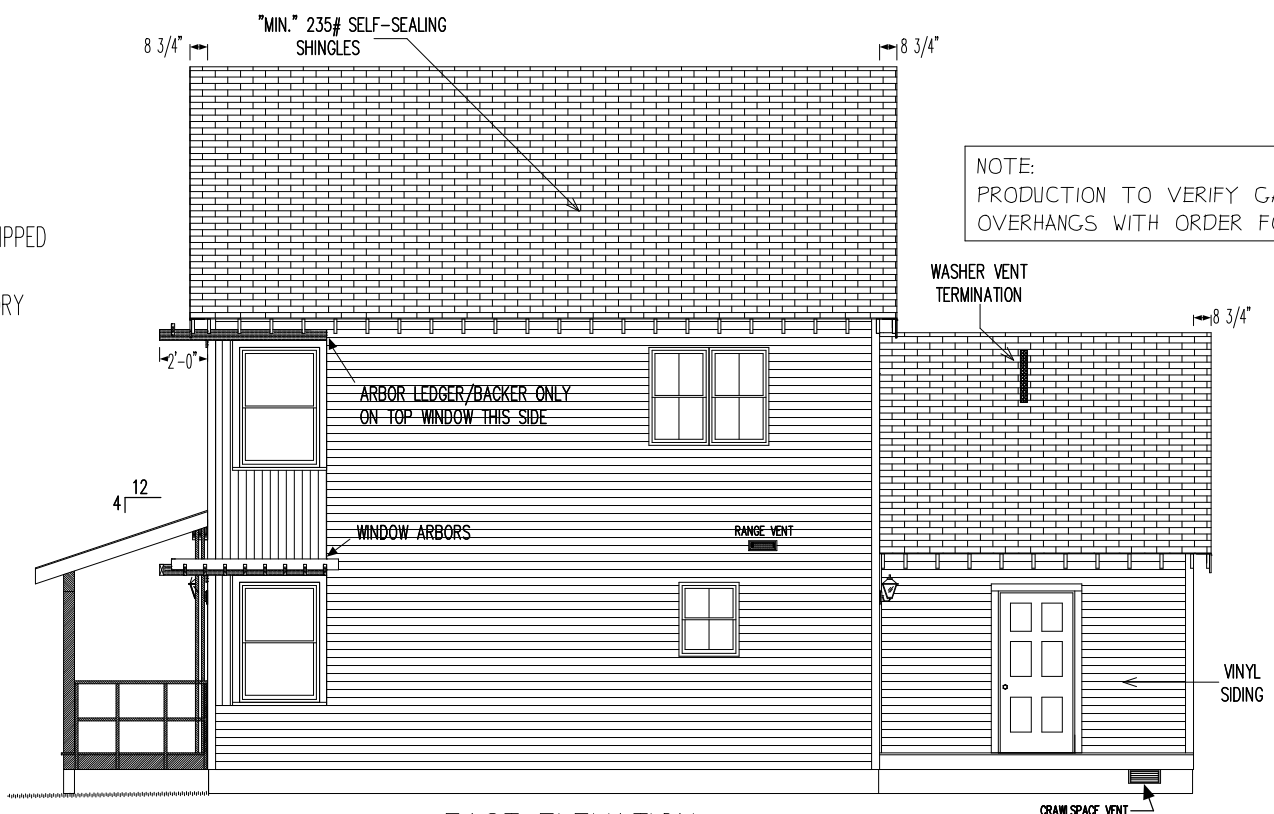
PORCHES & DECKS TO BE ON-SITE BY OTHERS

WINDOW ARBORS FRAMED BY KEISER & SHIPPED LOOSE FOR ON-SITE INSTALL BY OTHERS. LEDGER FOR ARBORS INSTALLED AT FACTORY ON MODULAR BOX



NORTH ELEVATION
REAR

PT FLOOR FRAME -SONO TUBE PIERS BY OTHERS



EAST ELEVATION
RIGHT

NOTE:
PRODUCTION TO VERIFY GABLE OVERHANGS WITH ORDER FORM

NOTE:
ALL EXTERIOR STEPS, DECK SEATING, RAILINGS TO BE SUPPLIED AND INSTALLED ON-SITE BY OTHERS. SITE CONSTRUCTION TO BE COMPLIANT WITH ALL STATE & LOCAL CODES.

NOTE: REFER TO BUILDERS REFERENCE MANUAL FOR DETAILS AND SPECIFICATIONS.
THIS PLAN CAN BE USED FOR FINAL CONSTRUCTION -- (7/27/12)

DWG NO.
KIM 3975

GOTO VIEW:
FOUND

DATE:
10/11/10

FOUNDATION

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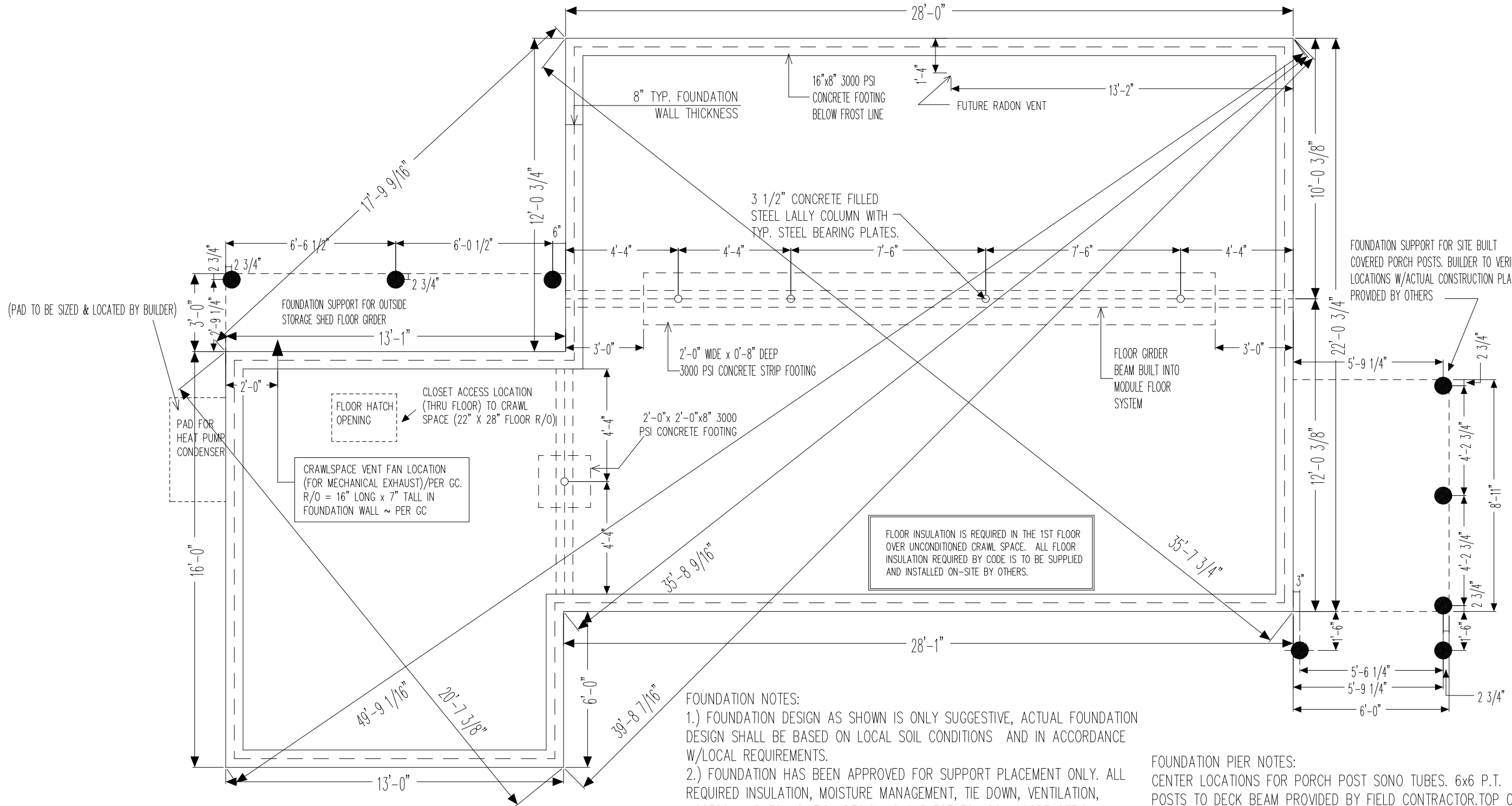
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DATE	ITEM
7/27/12-RT	

SCALE:
1/4"=1'-0"

SHEET NO.

4



FLOOR INSULATION IS REQUIRED IN THE 1ST FLOOR OVER UNCONDITIONED CRAWL SPACE. ALL FLOOR INSULATION REQUIRED BY CODE IS TO BE SUPPLIED AND INSTALLED ON-SITE BY OTHERS.

FOUNDATION NOTES:

- 1.) FOUNDATION DESIGN AS SHOWN IS ONLY SUGGESTIVE, ACTUAL FOUNDATION DESIGN SHALL BE BASED ON LOCAL SOIL CONDITIONS AND IN ACCORDANCE W/LOCAL REQUIREMENTS.
- 2.) FOUNDATION HAS BEEN APPROVED FOR SUPPORT PLACEMENT ONLY. ALL REQUIRED INSULATION, MOISTURE MANAGEMENT, TIE DOWN, VENTILATION, ACCESS, AND FOUNDATION DESIGN IS SUBJECT TO LOCAL CODE OFFICIAL INSPECTION.
- 3.) (IF APPLICABLE) FIREPLACE OR CHIMNEY FOOTING TO BE SIZED BY G.C.
- 4.) 3000 PSF. SOIL BEARING CAPACITY.
- 5.) CONCRETE COMPRESSIVE STRENGTH 3000 PSI. CAPACITY.
- 6.) SEE INSULATION, VENTILATION & PORCH PIER NOTES ABOVE

FOUNDATION PIER NOTES:

- CENTER LOCATIONS FOR PORCH POST SONO TUBES. 6x6 P.T. POSTS TO DECK BEAM PROVIDED BY FIELD CONTRACTOR. TOP OF PORCH POST SONO TUBES TO BE FLUSH WITH GRADE. POST SUPPORT NOTES:
1. PIERS TO BE FLUSH WITH FINISH GRADE.
 2. 6x6 P.T. POSTS SUPPLIED BY F.C. FOR SET.
 3. PIERS TO HAVE POST TIE DOWN BY OTHERS.
 4. 6x6 POSTS FLUSH W/FACE OF DECK GIRDER.

CRAWLSPACE NOTES:

UNVENTED/ CONDITIONED CRAWL SPACE WILL REQUIRE COMPLIANCE W/2009-IRC SECTION R408. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL CRAWLSPACE CODE COMPLIANCE.

1st FLR COLONIAL ME 2008 NEC

DWG NO.
KIM 3975

GOTO VIEW:
1ELEC

DATE:
10/11/10

1st FLR
ELECTRICAL PLAN
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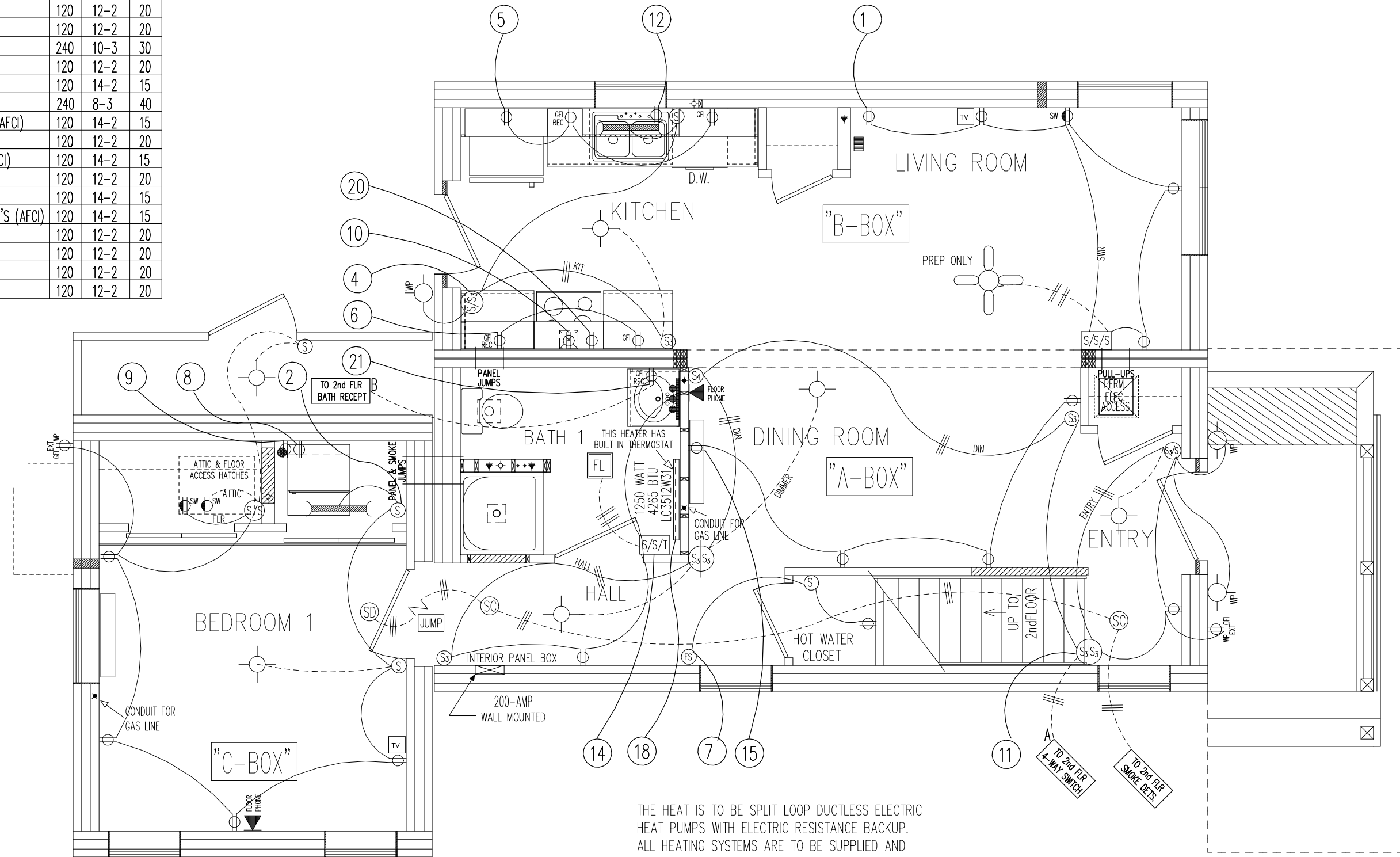
DATE	ITEM
7/27/12-RT	

SCALE:
1/4"=1'-0"

SHEET NO.
5

DESCRIPTION OF CIRCUITS				
NO.	SERVING	VOLT	WIRE	AMP
1	LIV RM;LTS,REC (AFCI)	120	14-2	15
2	BED1;LTS,REC (AFCI)	120	14-2	15
3	BED2;LTS,REC (AFCI)	120	14-2	15
4	KITCHEN;LTS (AFCI)	120	14-2	15
5	KITCHEN;REC	120	12-2	20
6	KITCHEN;REC	120	12-2	20
8	DRYER	240	10-3	30
9	WASHER	120	12-2	20
7	BOILER	120	14-2	15
10	RANGE	240	8-3	40
11	DINING;LTS; ENTRY;LTS;REC (AFCI)	120	14-2	15
12	DISHWASHER	120	12-2	20
14	BATH1;LTS;HALL;LTS;REC (AFCI)	120	14-2	15
15	DINING; REC (AFCI)	120	12-2	20
16	BED3;LTS,REC (AFCI)	120	14-2	15
17	BATH2;LTS; HALL;LTS;REC SD'S (AFCI)	120	14-2	15
18	BATH1 HEATER	120	12-2	20
19	BATH2 HEATER	120	12-2	20
20	MICROWAVE	120	12-2	20
21	BATH; REC (GFI)	120	12-2	20

@ ELECTRICAL ACCESS			
14-2	14-3	12-2	LOW VOLTS
3	SMOKES	19	(2) PHONE
16	A		(2) TV
17			



THE HEAT IS TO BE SPLIT LOOP DUCTLESS ELECTRIC HEAT PUMPS WITH ELECTRIC RESISTANCE BACKUP. ALL HEATING SYSTEMS ARE TO BE SUPPLIED AND INSTALLED ON-SITE BY OTHERS.

2nd FLR COLONIAL ME 2008 NEC

DWG NO.
 KIM 3975

GOTO VIEW:
 2ELEC

DATE:
 10/11/10

2nd FLR
 ELECTRICAL PLAN
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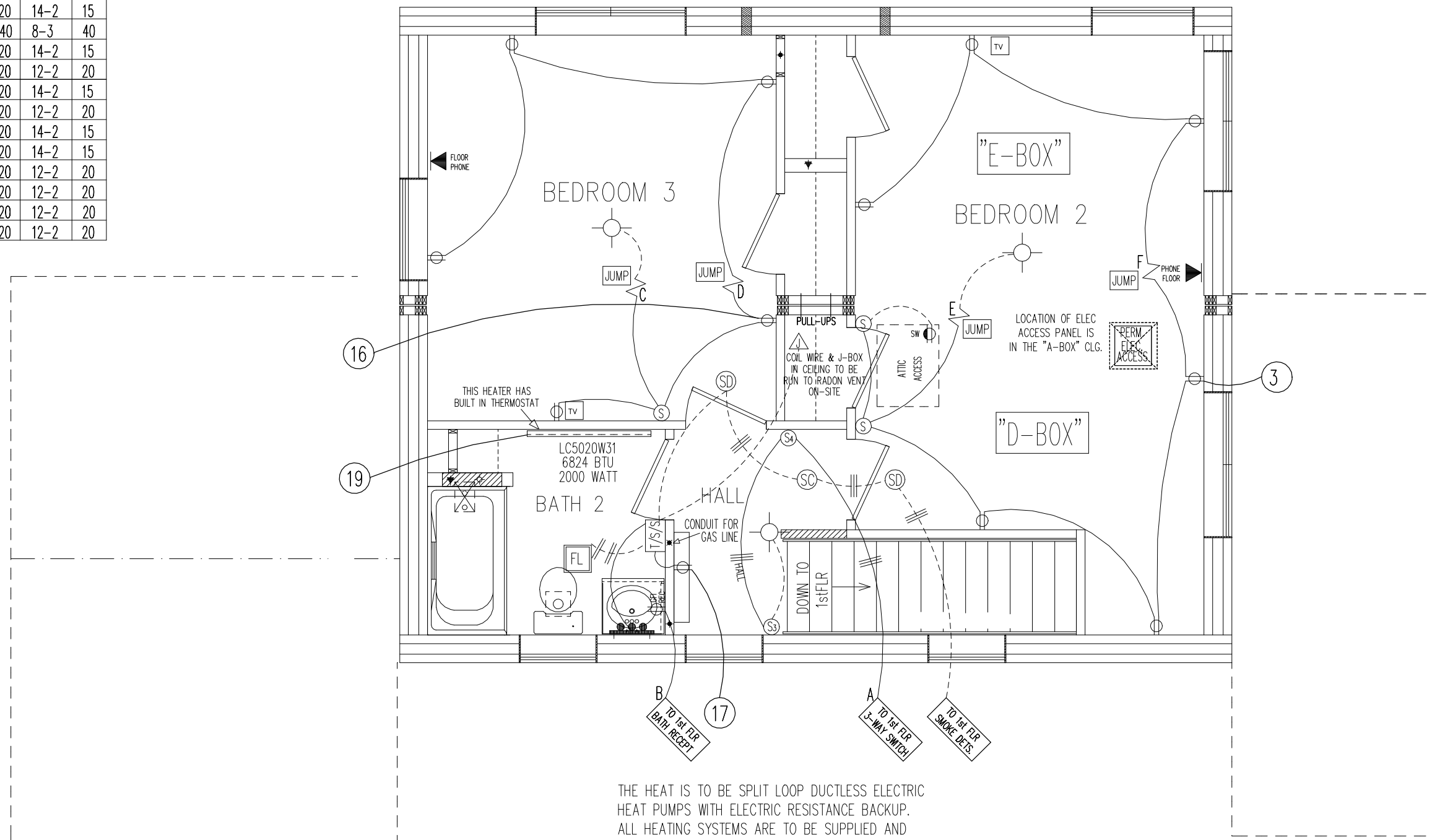
DATE	ITEM
7/27/12-RT	

SCALE:
 1/4"=1'-0"

SHEET NO.
 5A

DESCRIPTION OF CIRCUITS				
NO.	SERVING	VOLT	WIRE	AMP
1	LIV RM;LTS,REC (AFCI)	120	14-2	15
2	BED1;LTS,REC (AFCI)	120	14-2	15
3	BED2;LTS,REC (AFCI)	120	14-2	15
4	KITCHEN;LTS (AFCI)	120	14-2	15
5	KITCHEN;REC	120	12-2	20
6	KITCHEN;REC	120	12-2	20
8	DRYER	240	10-3	30
9	WASHER	120	12-2	20
7	BOILER	120	14-2	15
10	RANGE	240	8-3	40
11	DINING;LTS; ENTRY;LTS;REC (AFCI)	120	14-2	15
12	DISHWASHER	120	12-2	20
14	BATH1;LTS;HALL;LTS;REC (AFCI)	120	14-2	15
15	DINING; REC (AFCI)	120	12-2	20
16	BED3;LTS,REC (AFCI)	120	14-2	15
17	BATH2;LTS; HALL;LTS;REC SD'S (AFCI)	120	14-2	15
18	BATH1 HEATER	120	12-2	20
19	BATH2 HEATER	120	12-2	20
20	MICROWAVE	120	12-2	20
21	BATH; REC (GFI)	120	12-2	20

@ ELECTRICAL ACCESS				
14-2	14-3	12-2	LOW VOLTS	
3	SMOKES	19	(2)	PHONE
16	A	B	(2)	TV
17				



THE HEAT IS TO BE SPLIT LOOP DUCTLESS ELECTRIC HEAT PUMPS WITH ELECTRIC RESISTANCE BACKUP. ALL HEATING SYSTEMS ARE TO BE SUPPLIED AND INSTALLED ON-SITE BY OTHERS.

FEEDER & NEUTRAL LOAD

LIGHTING AND SMALL APPLIANCE HOT WATER BASEBOARD

- 1.) LIGHTING: TOTAL FLOOR AREA = 1444.333 X 3 = 4333.2999VA
- 2.) SMALL APPLIANCE: 5 CIRCUITS X 1500 = 7500 VA
- 3.) LAUNDRY: 1 CIRCUIT X 1500 = 1500VA

1st 3000VA @ 100% = 3000 VA
 REMAINDER @ 35% = 3616.5 VA
 TOTAL = 6616.5 VA

	LINE A	NEUTRAL	LINE B
LIGHTING AND SMALL APPLIANCE: VA ÷ 240 = AMPERES =	27.6	27.6	27.6
HEATING AND COOLING	7.1	7.1	0
1) FURNACE BLOWER	0	0	0
2) HEATING ELEMENT	0	0	0
3) AIR CONDITIONER	0	0	0
LARGEST FAN(S) - ADD 25% APPLIANCE LOADING	0	2.4	2.4
1) EXHAUST FAN	1.6	1.6	0
2) WATER HEATER	18.8	0	18.8
3) DISHWASHER	9.0	9.0	0
4) DISPOSAL	0	5.0	5.0
4) MICROWAVE	0	6.0	6.0
TOTAL APPLIANCE - AMP X .75 WITH APPLIANCES CLOTHING DRYER RANGE	22.1 23.3 33.3	16.2 16.3 23.3	22.4 23.3 33.3

SERVICE CONDUCTOR AMPACITY (TOTAL) = 113.3 92.9 108.9

USING 200 AMP SERVICE

WINDOW CALL SIZE	UNIT SIZE	ROUGH OPENING	TYPE	LIGHT FT ²	VENT FT ²	SQ. FT.
3037	29 1/2" x 36 1/2"	30 1/2" x 37 1/2"	SINGLE HUNG	5.61	2.59	7.71
3049	29 1/2" x 48 1/2"	30 1/2" x 49 1/2"	SINGLE HUNG	7.56	3.59	10.21
2860	27 1/2" x 59 1/2"	28 1/2" x 60 1/2"	SINGLE HUNG	8.94	4.33	11.67
* 4060	39 1/2" x 59 1/2"	40 1/2" x 60 1/2"	SINGLE HUNG	13.48	6.47	16.67

NOTE: SAFETY GLAZING TO BE PROVIDED FOR WINDOWS IN HAZARDOUS LOCATIONS
 NOTE: WINDOWS ARE NFRC RATED

NOTE: 2-WIDE DH COMBINE (2) 1-WIDE AND SUBTRACT 1/2" FROM R/O WIDTH

*MEETS EGRESS REQUIREMENTS

NO.	SERVING	VOLT	WIRE	AMP
1	LIV RM;LTS,REC (AFCI)	120	14-2	15
2	BED1;LTS,REC (AFCI)	120	14-2	15
3	BED2;LTS,REC (AFCI)	120	14-2	15
4	KITCHEN;LTS (AFCI)	120	14-2	15
5	KITCHEN;REC	120	12-2	20
6	KITCHEN;REC	120	12-2	20
8	DRYER	240	10-3	30
9	WASHER	120	12-2	20
7	BOILER	120	14-2	15
10	RANGE	240	8-3	40
11	DINING;LTS; ENTRY;LTS;REC (AFCI)	120	14-2	15
12	DISHWASHER	120	12-2	20
14	BATH1;LTS;HALL;LTS;REC (AFCI)	120	14-2	15
15	DINING; REC (AFCI)	120	12-2	20
16	BED3;LTS,REC (AFCI)	120	14-2	15
17	BATH2;LTS; HALL;LTS;REC SD'S (AFCI)	120	14-2	15
18	BATH1 HEATER	120	12-2	20
19	BATH2 HEATER	120	12-2	20
20	MICROWAVE	120	12-2	20
21	BATH; REC (GFI)	120	12-2	20

ROOM	FLOOR AREA	GLASS AREA	% OF FLOOR	ARTIF-LIGHT	VENT AREA	% OF FLOOR	ARTIF-VENT
LIVING ROOM, KITCHEN & DINING ROOM	378.9	55.2	14.6	240 W	62.2	16.4	160 CFM
BEDROOM #1	120.5	28.6	23.7		13.6	11.3	
BEDROOM #2	209.4	46.5	22.2		22.3	10.7	
BEDROOM #3	152.2	28.6	18.8		13.6	9.0	
BATH #1	----			264 W			100 CFM
BATH #2	----			264 W			100 CFM

DOOR CALL SIZE	WIDTH	HEIGHT	ROUGH OPENING	MATERIAL	MANUFACTURER	TYPE
3068 6-PANEL	3'-0"	6'-8"	38 1/2" X 82 1/2"	INSUL. CORE	MASONITE	EXT HINGED
2868 9-LITE	2'-8"	6'-8"	34 1/2" X 82 1/2"	INSUL. CORE	MASONITE	EXT HINGED

DOOR CALL SIZE	WIDTH	HEIGHT	ROUGH OPENING	TYPE
² 2/6-INT	2'-6"	6'-8"	2-8 1/2" X 6-10 1/2"	PASSAGE
^{2,3} 3/0-INT	3'-0"	6'-8"	3-2 1/2" X 6-10 1/2"	PASSAGE
² 2/0-BP	2'-0"	6'-8"	2-1 1/4" X 6-11 1/4"	INT- BY-PASS

²OFFERED AS A 6-PANEL DOOR
³OFFERED AS A 15-LITE DOOR

ALL INTERIOR DOORS MAY ALSO BE USED AS DOUBLE FRENCH STYLE

ALL INTERIOR DOORS AVAILABLE IN HOLLOW CORE MASONITE, SOLID CORE MASONITE, AND SOLID PINE

ELECTRICAL SYMBOL LEGEND

<ul style="list-style-type: none"> FL 100 CFM. FAN/LIGHT COMBO EXT. EXH. S SINGLE POLE SWITCH S/S DOUBLE GANG SWITCHES S/S/S DOUBLE GANG 3-WAY/SINGLE SWITCH S/S/S THREE WAY SWITCH ✕ ✕ ELECTRICAL CONDUIT S FOUR WAY SWITCH S/S/S DOUBLE GANG 4-WAY/SINGLE SWITCH S/S/S/S TRIPLE GANG 3-WAY/SINGLE/SINGLE FS FIRE SAFETY SWITCH PHONE JACK TV TELEVISION JACK PANEL BOX WIRE IN WALL OR PARTITION WIRE IN CEILING OR FLOOR THREE WIRE HOME RUN TO PANEL BOX CIRCUIT # LABEL CAT CATEGORY 5 JUMP EMERGENCY LIGHT EXIT SIGN UNDER CAB LIGHT FLOOD LIGHT TRACK LIGHT COMBO CO/SMOKE DET. 	<ul style="list-style-type: none"> DUPLEX RECEPTACLES GROUND FAULT RECEPTACLE GROUND FAULT PROTECTED REC. SWITCHED RECEPTACLE RANGE / DRYER RECEPTACLE WATERPROOF GFI RECEPTACLE DEDICATED RECEPTACLE U.L. APPROVED SMOKE DETECTOR COMPACTABLE PHOTO. ELEC. DETECTOR (MASS.) RANGE HOOD 160 CFM. EXH. TO EXT. WALL MOUNTED INCANDESCENT LIGHT SURFACE MOUNTED INCANDESCENT LIGHT JUNCTION BOX THERMOSTAT PADBLE FAN RECESSED LIGHT HEAT/FAN/LIGHT FLOURESCENT OUTSIDE LIGHT PUCK LIGHT 4' MED CAB 4' LIGHT BAR CARBON MONOXIDE DET. 3 BULB LIGHT BAR MED CAB SPEAKER SOFFIT RECESSED LIGHT
--	---

BUILDER REFERENCE MANUAL PAGE INFORMATION

SECTION 6	PAGE
A. FOUNDATION-	25-27
B. RANCH-	28-30
C. RAISED RANCH-	31-34
D. CAPE (AND DORMERS)-	35-41
E. GAMBREL (AND DORMERS)-	42-46
F. SALT-BOX (AND DORMERS)-	40-41, 47-50
G. EXPANDABLE COLONIAL-	51-54
H. 4-BOX COLONIAL-	51-54
I. OPTIONAL ROOF PITCHES-	55-59
J. ELECTRICAL-	60-63
K. PLUMBING-	64-71

FLOOR PLAN SYMBOL LEGEND

- C.C. - CHINEY CHASE LOCATION. 2" MIN. CLEARANCE TO COMBUSTIBLES FOR CHIMNEY. FIRE STOPPING MUST BE INSTALLED ON-SITE BY OTHERS SUBJECT TO LOCAL CODE OFFICAL, HAVING JURISDICTION, INSPECTIONS.
- C. - CLOSET WITH SHELF AND ROD
- L. - LINEN CLOSET WITH (3) SHELVES
- S.W. - STAIRWELL
- W.C. - WATER CLOSET - DEMAND LIMIT MAX. 1.6 GALLONS PER FLUSH (MASS.)
- SD - SMOKE DETECTOR LOCATION
- ▲ - STATE AND TRA INSIGNIA LOCATIONS
- - DATA PLATE LOCATION

KEISER INDUSTRIES INC.
 P.O. BOX 9000 RTE. 121
 OXFORD, ME 04270
 TELE: (207) 539-8883
 FAX: (207)539-4446

DWG NO.
KIM 3975

GOTO VIEW:
DATA

DATE:
10/11/10

DATA SHEET

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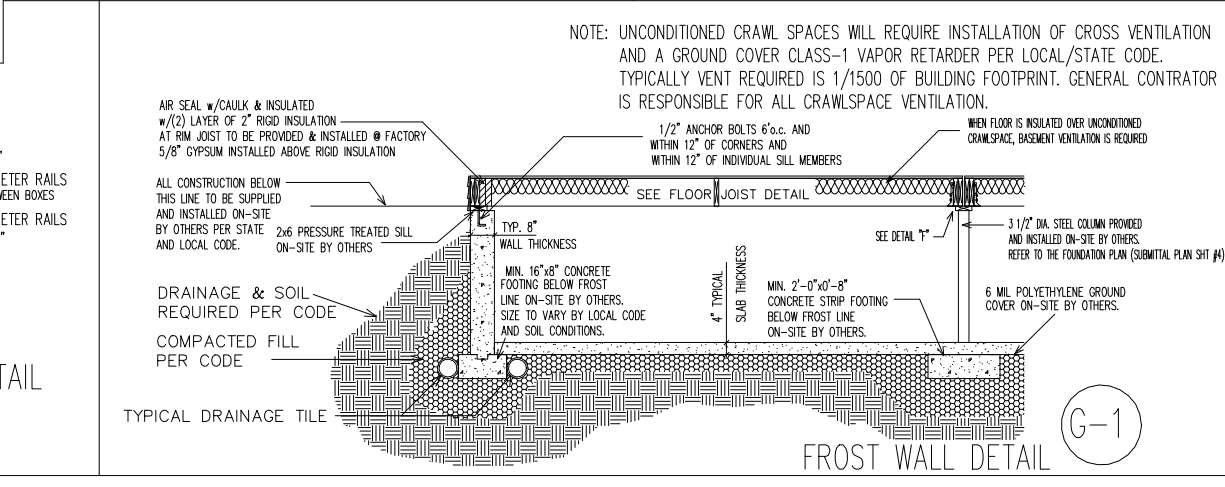
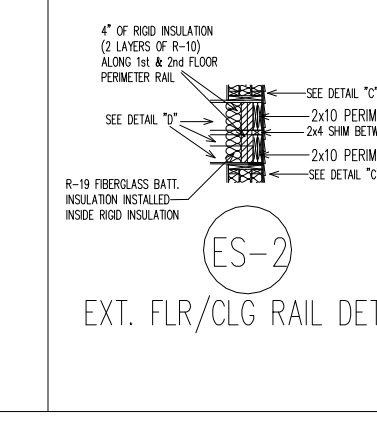
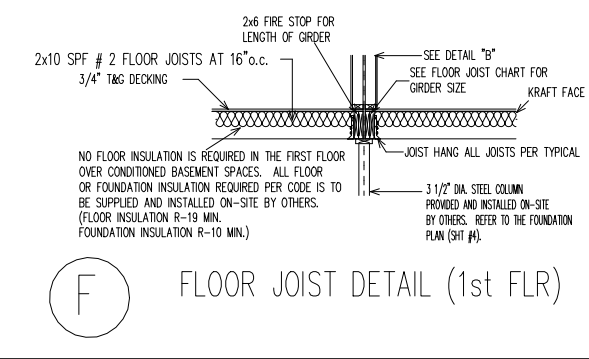
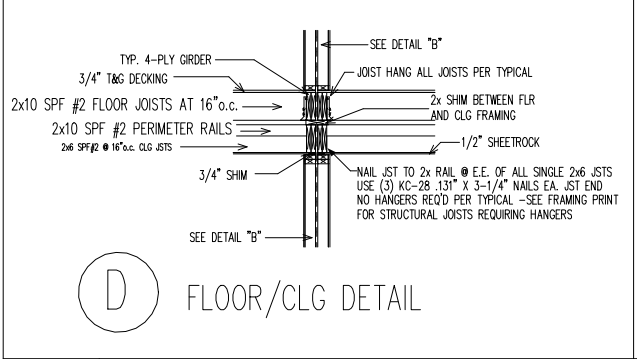
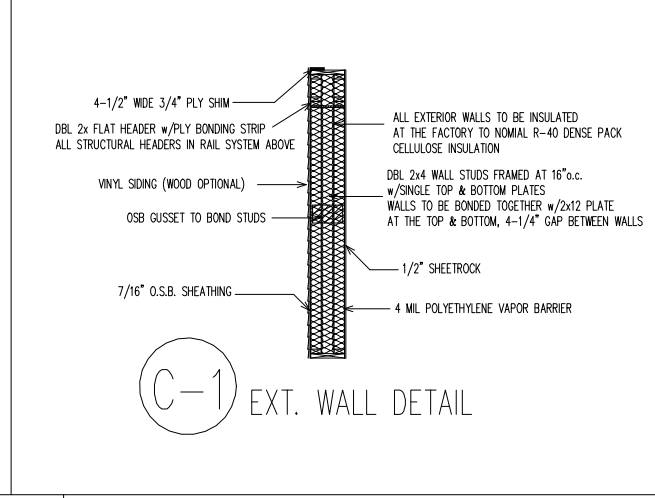
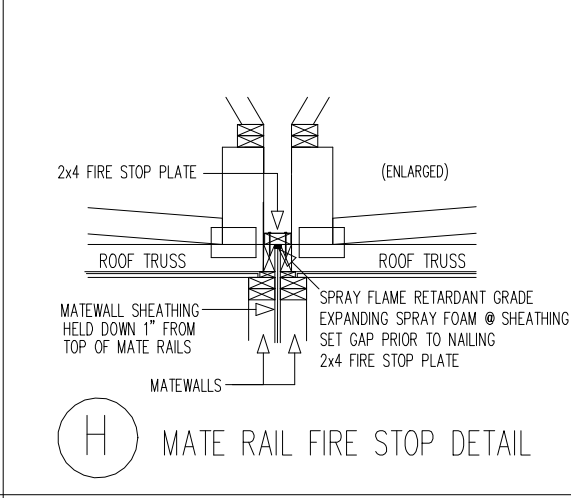
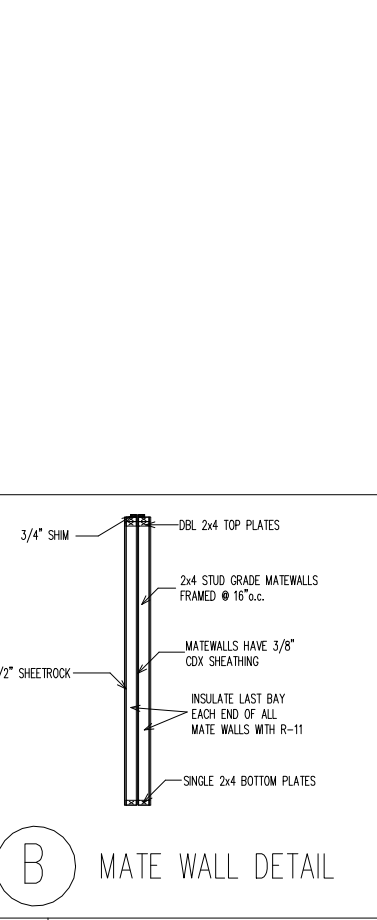
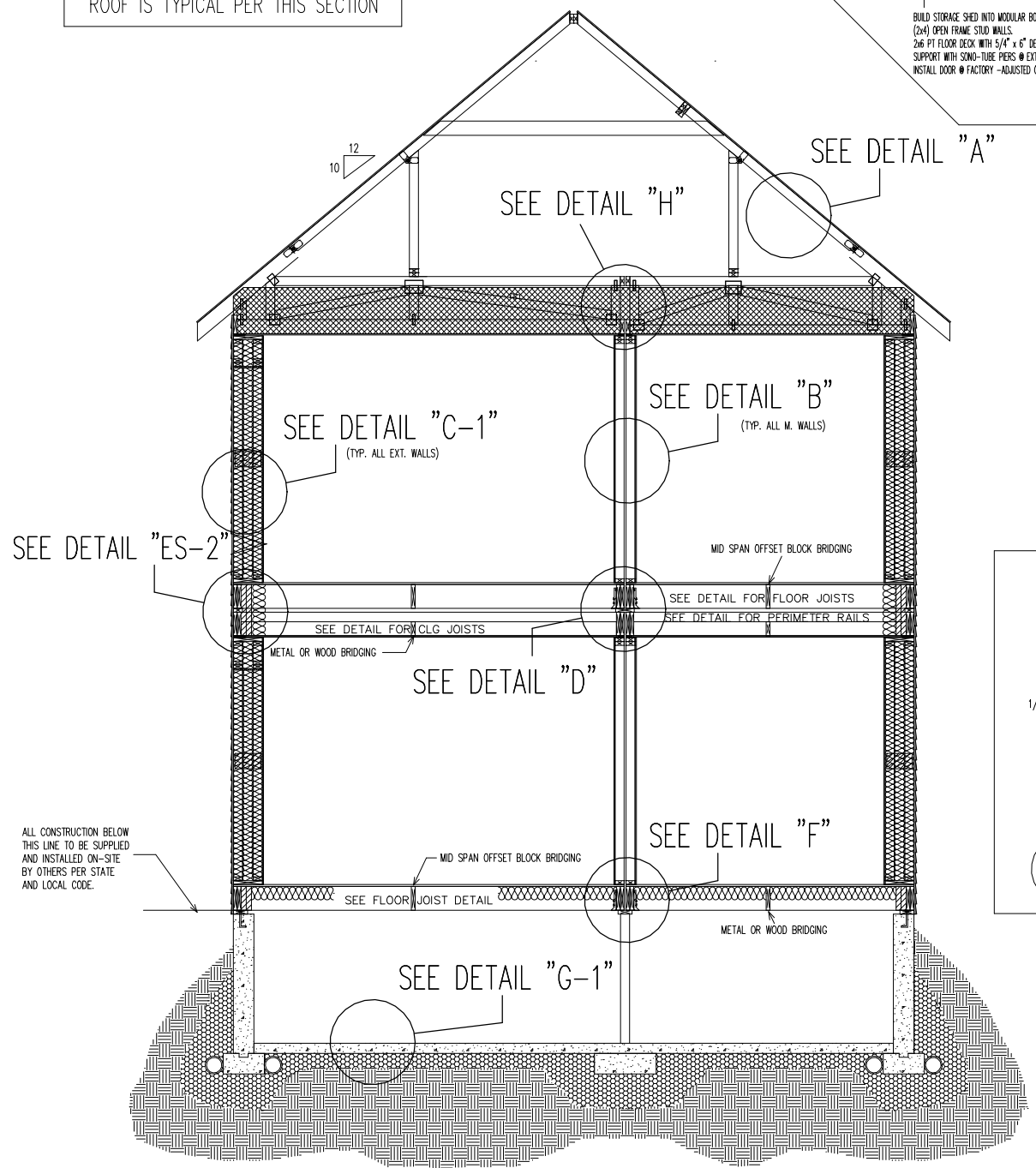
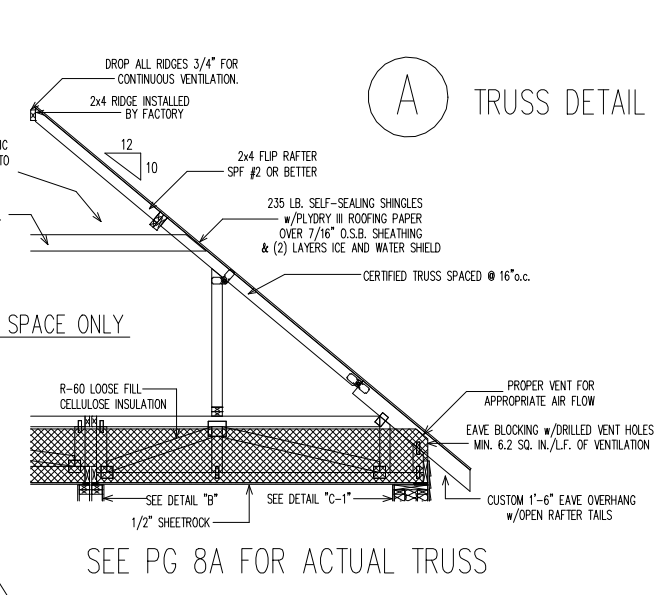
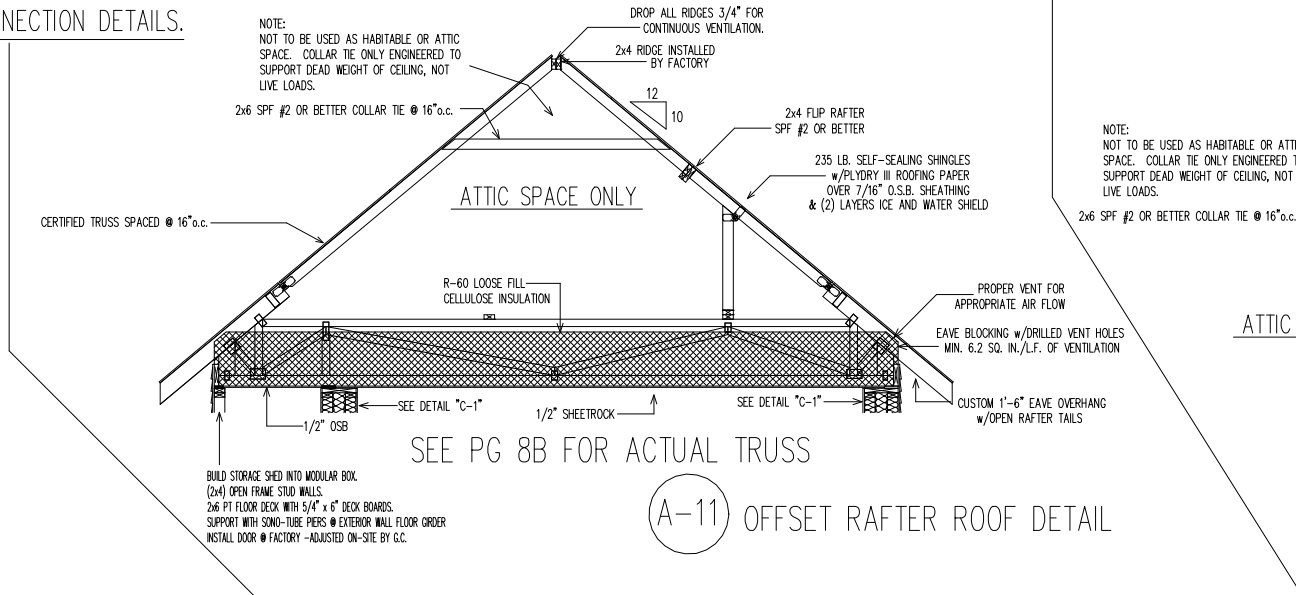
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REFERENCE KEISER INDUSTRIES INSTALLATION MANUAL FOR ALL ON-SITE CONNECTION DETAILS.

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 OXFORD, ME 04270
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FOR ACTUAL ROOF COMPONENTS
 SEE PG'S 8A-8B. ALL INSULATION &
 CONSTRUCTION DETAILS BELOW
 ROOF IS TYPICAL PER THIS SECTION



DWG NO.
 KIM 3975

LAYER NAME:
 SECTION

DATE:
 10/11/10

TYPICAL COLONIAL
 CROSS SECTION
 w/ TRUSSED ROOF

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FOR HELP CALL:
 ENGINEERING

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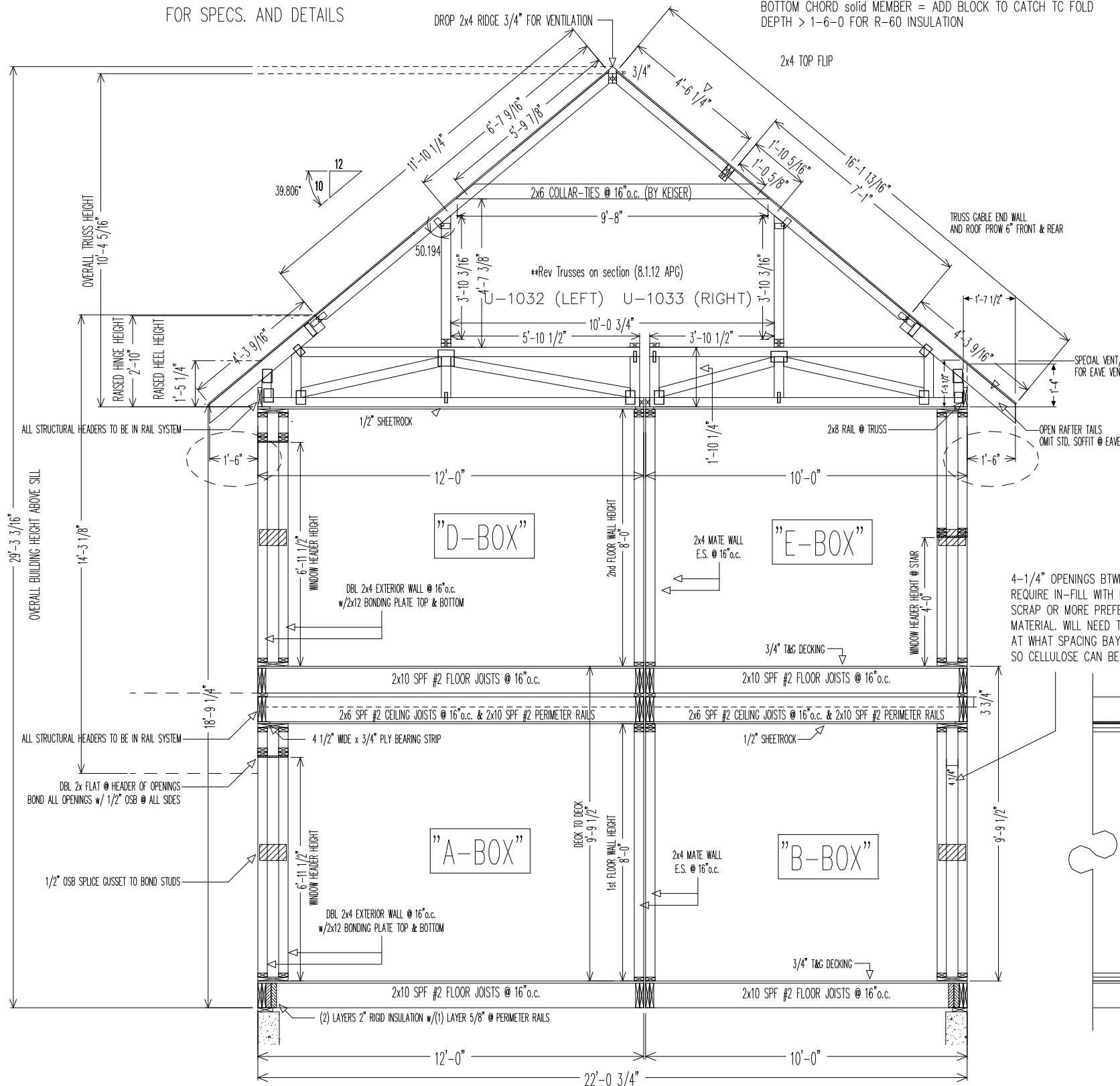
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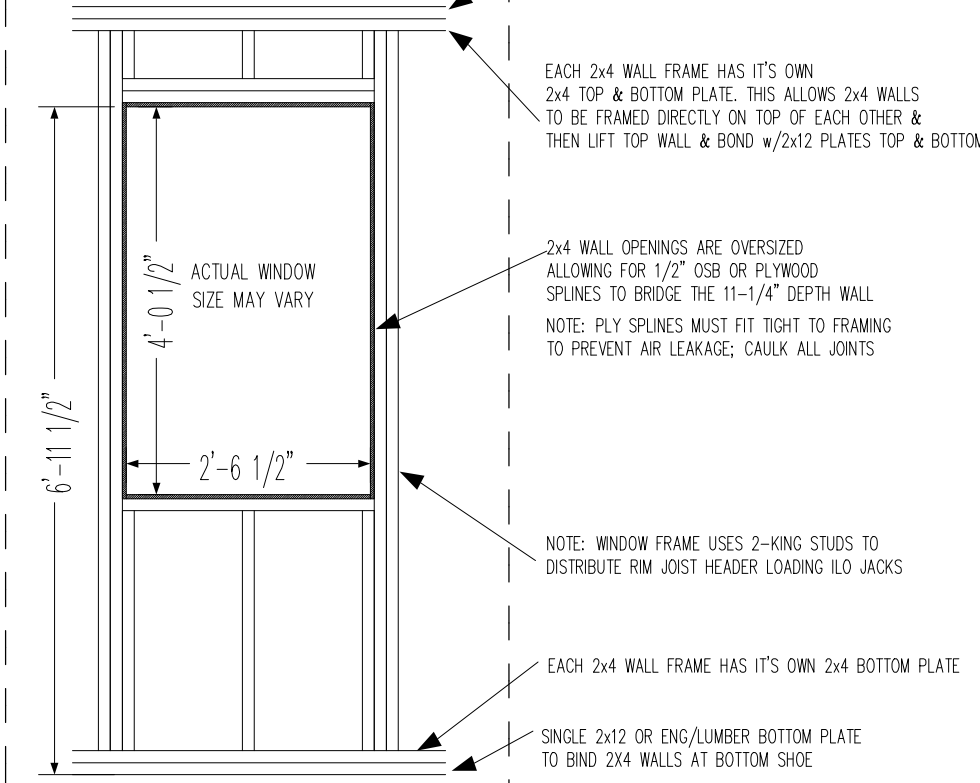
22'-0 3/4" WIDE 10/12 TRUSS

SEE MANUFACTURER'S DWGS.
FOR SPECS. AND DETAILS

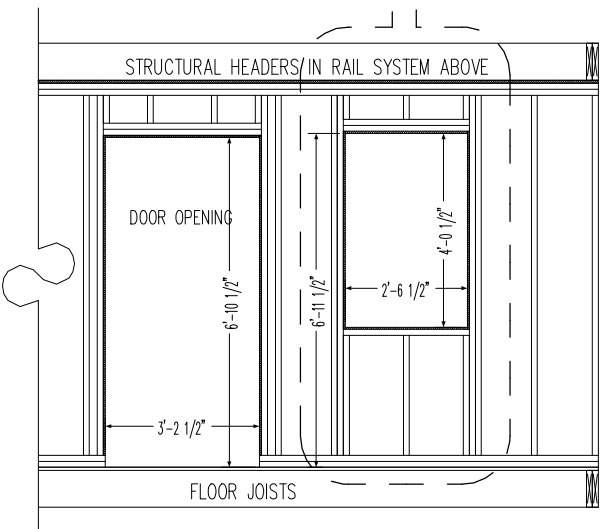
TRUSS ~ U-1032 & U-1033 (UPDATE REQUIRED)
09-IBC; (Pg)= 60PSF GROUND SNOW; WIND =110MPH @ 35FT
SPACING = 16" O/C; PITCH = 10/12
HI-HINGE HGT = 2'-10"-0; HI HEEL HGT = 1'-5"-4 (OVER END OF BC)
OVERHANG CUSTOM = 1'-6"-0 (BEYOND EXT WALL FACE!)
DBL FOLD TRUSS (ADD TOP FLIP AS SHOWN)
BOTTOM CHORD solid MEMBER = ADD BLOCK TO CATCH TC FOLD
DEPTH > 1'-6"-0 FOR R-60 INSULATION



WINDOW FRAME DETAIL



4-1/4" OPENINGS BTWN 2x4 STUD WALLS WILL REQUIRE IN-FILL WITH EITHER A STAPLED SHEATHING SCRAP OR MORE PREFERABLY INSUL SPAN POLY WEB MATERIAL. WILL NEED TO EXPERIMENT TO DETERMINE AT WHAT SPACING BAYS WILL NEED TO BE WEBBED-IN SO CELLULOSE CAN BE DENSE PACKED CORRECTLY



DOUBLE CHECK THIS TRUSS PRINT TO ACTUAL TRUSSES BEFORE STARTING CEILING/ROOF
& CALL DRAFTING OFFICE WITH ANY DEVIATIONS IN MEASUREMENTS

MZH - 11-1/4" R-40 wall details

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P.O. BOX 9000 RTE. 121
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KIM 3975

LAYER NAME:
SECTION

DATE:
10/13/10

22'-0 3/4" WIDE COLONIAL
10/12 TRUSS DETAIL
U-1032 & U-1033 (60psf; 16" o.c. DESIGN)

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SCALE:
1/4"=1'-0"

SHEET NO.
8A

19'-0" WIDE 10/12 TRUSS

SEE MANUFACTURER'S DWGS.
FOR SPECS. AND DETAILS

TRUSS DESIGN PARAMETERS: FOR U-1111

09-IBC; (Pg)= 60PSF GROUND SNOW; WIND =110MPH @ 35FT
SPACING = 16" O/C; PITCH = 10/12
HI-HINGE HGT = 2-10-0; HI HEEL HGT = 1-5-4 (OVER END OF BC)
OVERHANG CUSTOM = 1-6-0 (BEYOND EXT WALL FACE!)
DBL FOLD TRUSS (ADD TOP FLIP AS SHOWN)
BOTTOM CHORD solid MEMBER = ADD BLOCK TO CATCH TC FOLD
DEPTH > 1-6-0 FOR R-60 INSULATION

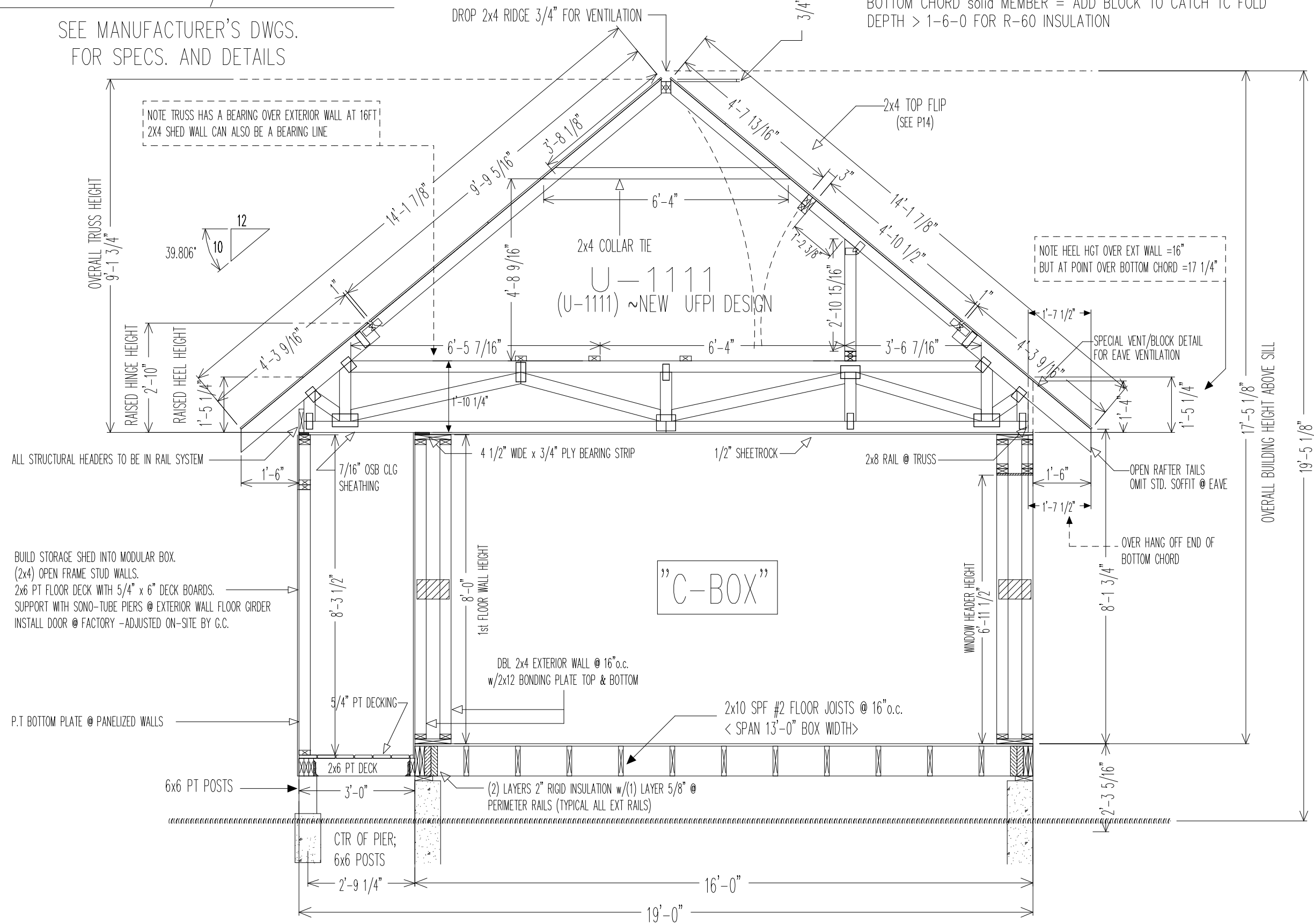
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DWG NO.
KIM 3975

LAYER NAME:
SECTION

DATE:
10/13/10

19'-0" WIDE OFFSET
10/12 TRUSS DETAIL
U-1111 (60psf; 16" o.c. DESIGN)
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BUILD STORAGE SHED INTO MODULAR BOX.
(2x4) OPEN FRAME STUD WALLS.
2x6 PT FLOOR DECK WITH 5/4" x 6" DECK BOARDS.
SUPPORT WITH SONO-TUBE PIERS @ EXTERIOR WALL FLOOR GIRDER
INSTALL DOOR @ FACTORY -ADJUSTED ON-SITE BY G.C.

P.T BOTTOM PLATE @ PANELIZED WALLS

"C-BOX"

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DATE	ITEM
8/1/12-RT/APG	

SCALE:
1/4" = 1'-0"

SHEET NO.
8B

DWG NO.
KIM 3975

GOTO VIEW:
FRAMING

DATE:
7/26/12

FLOOR FRAMING
1st & 2nd FLR

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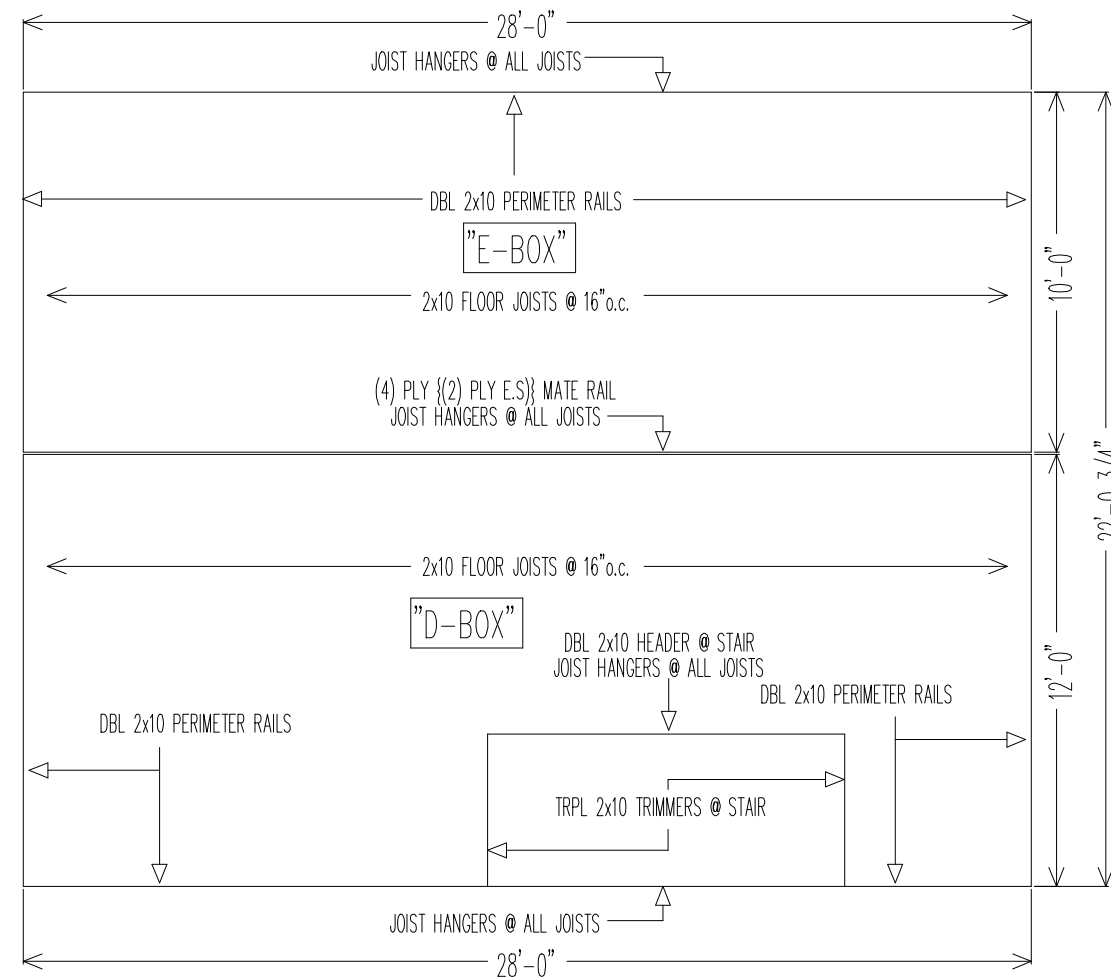
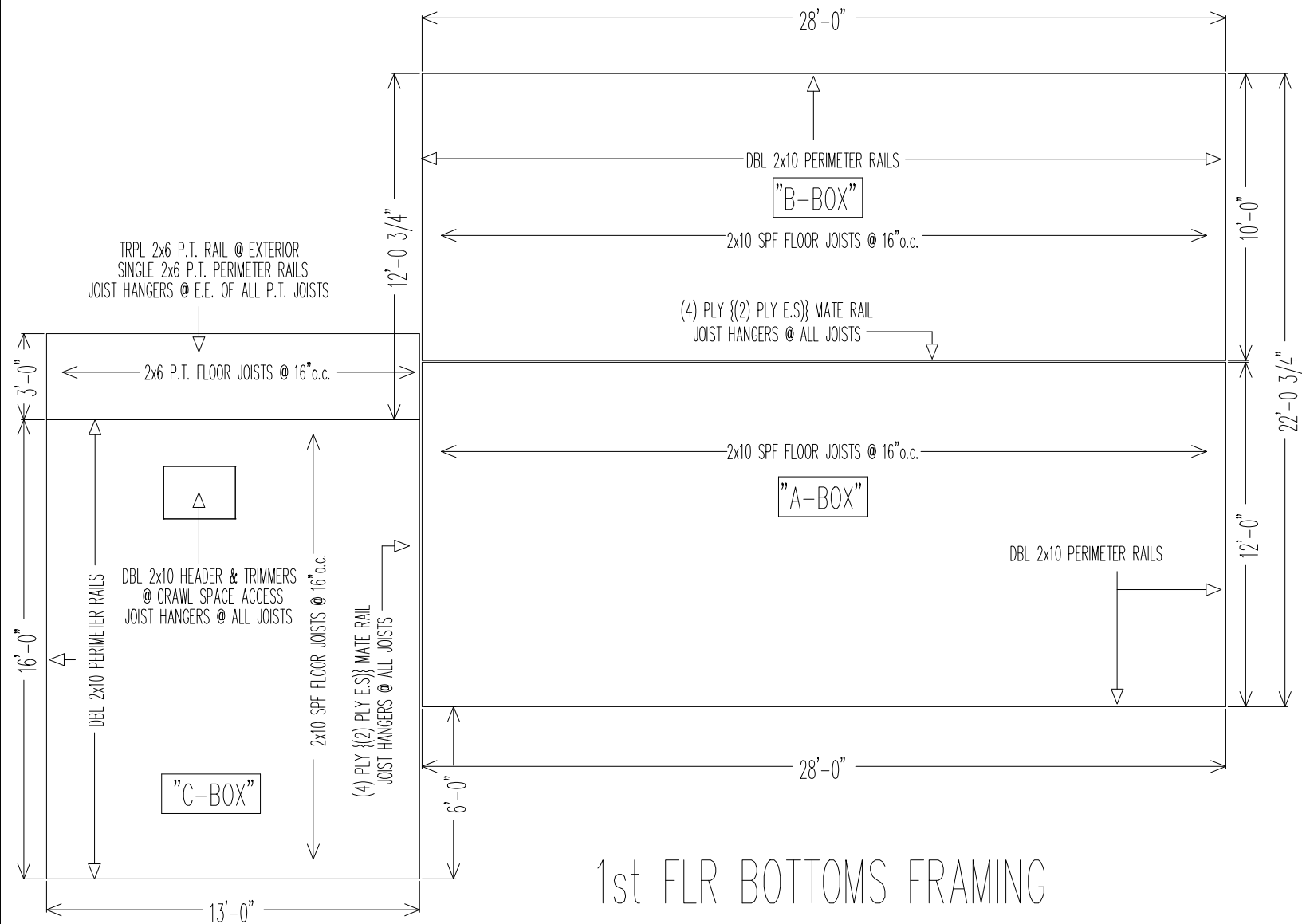
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SCALE:
3/16"=1'-0"

SHEET NO.
8C



DWG NO.
KIM 3975

GOTO VIEW:
1VENT

DATE:
10/7/10

PLUMBING
1st FLR
VENT PLAN

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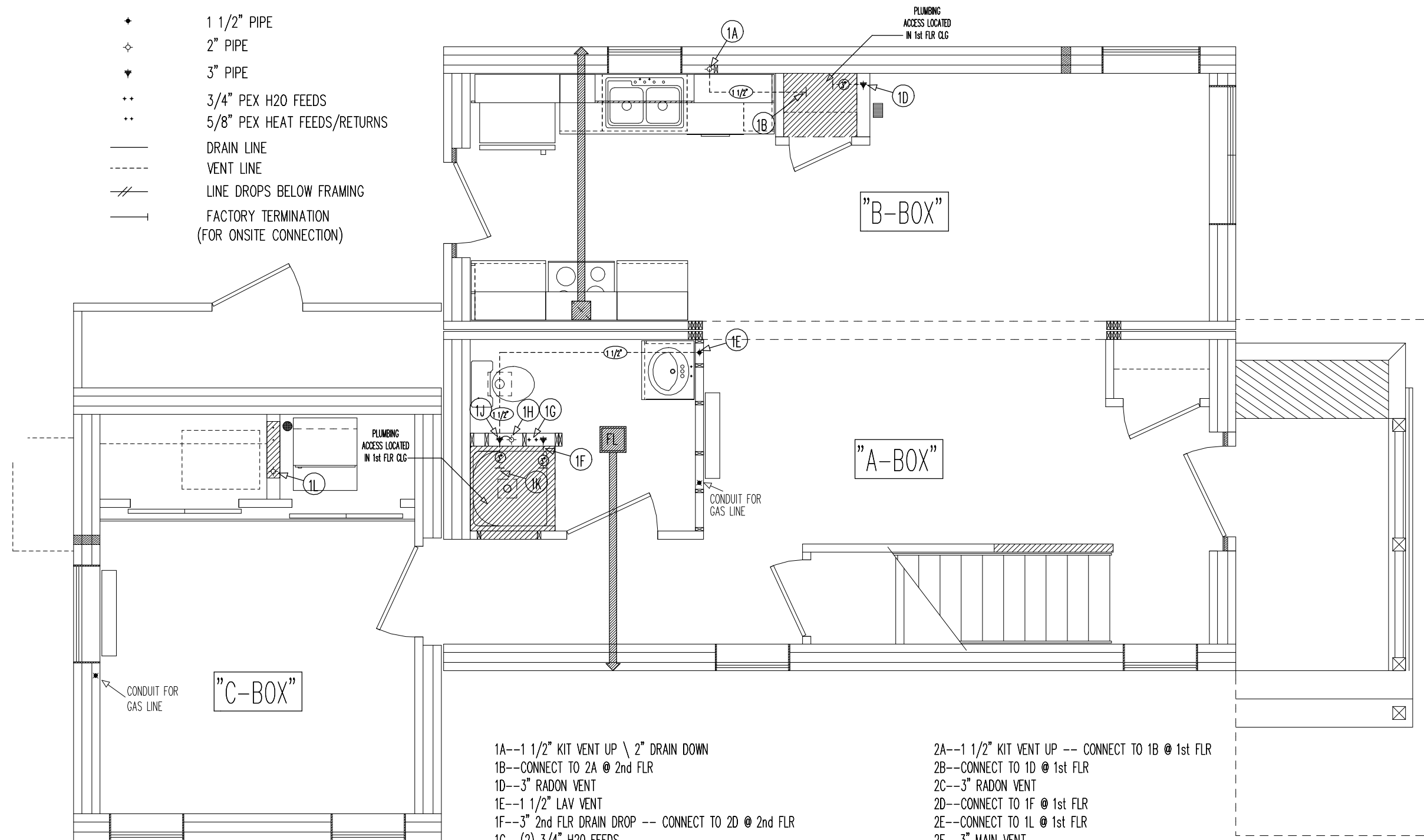
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1/4"=1'-0"

SHEET NO.

9

➤ SYMBOL LEGEND

- ◆ 1 1/2" PIPE
- ◇ 2" PIPE
- ▼ 3" PIPE
- ◆◆ 3/4" PEX H2O FEEDS
- ◆◆ 5/8" PEX HEAT FEEDS/RETURNS
- DRAIN LINE
- - - VENT LINE
- /— LINE DROPS BELOW FRAMING
- |— FACTORY TERMINATION (FOR ONSITE CONNECTION)



- 1A--1 1/2" KIT VENT UP \ 2" DRAIN DOWN
- 1B--CONNECT TO 2A @ 2nd FLR
- 1D--3" RADON VENT
- 1E--1 1/2" LAV VENT
- 1F--3" 2nd FLR DRAIN DROP -- CONNECT TO 2D @ 2nd FLR
- 1G--(2) 3/4" H2O FEEDS
- 1H--2" FUTURE VENT
- 1J--3" MAIN/STOOL/SHOWER VENT \ SHOWER DRAIN
- 1K--CONNECT TO 2E @ 2nd FLR
- 1L--2" WASHER VENT & DRAIN

- 2A--1 1/2" KIT VENT UP -- CONNECT TO 1B @ 1st FLR
- 2B--CONNECT TO 1D @ 1st FLR
- 2C--3" RADON VENT
- 2D--CONNECT TO 1F @ 1st FLR
- 2E--CONNECT TO 1L @ 1st FLR
- 2F--3" MAIN VENT
- 2G--2" SHOWER/STOOL VENT \ SHOWER DRAIN
- 2H--1 1/2" LAV VENT & DRAIN

DWG NO.
 KIM 3975

GOTO VIEW:
 2DRAIN

DATE:
 10/7/10

PLUMBING
 2nd FLR
 DRAIN PLAN

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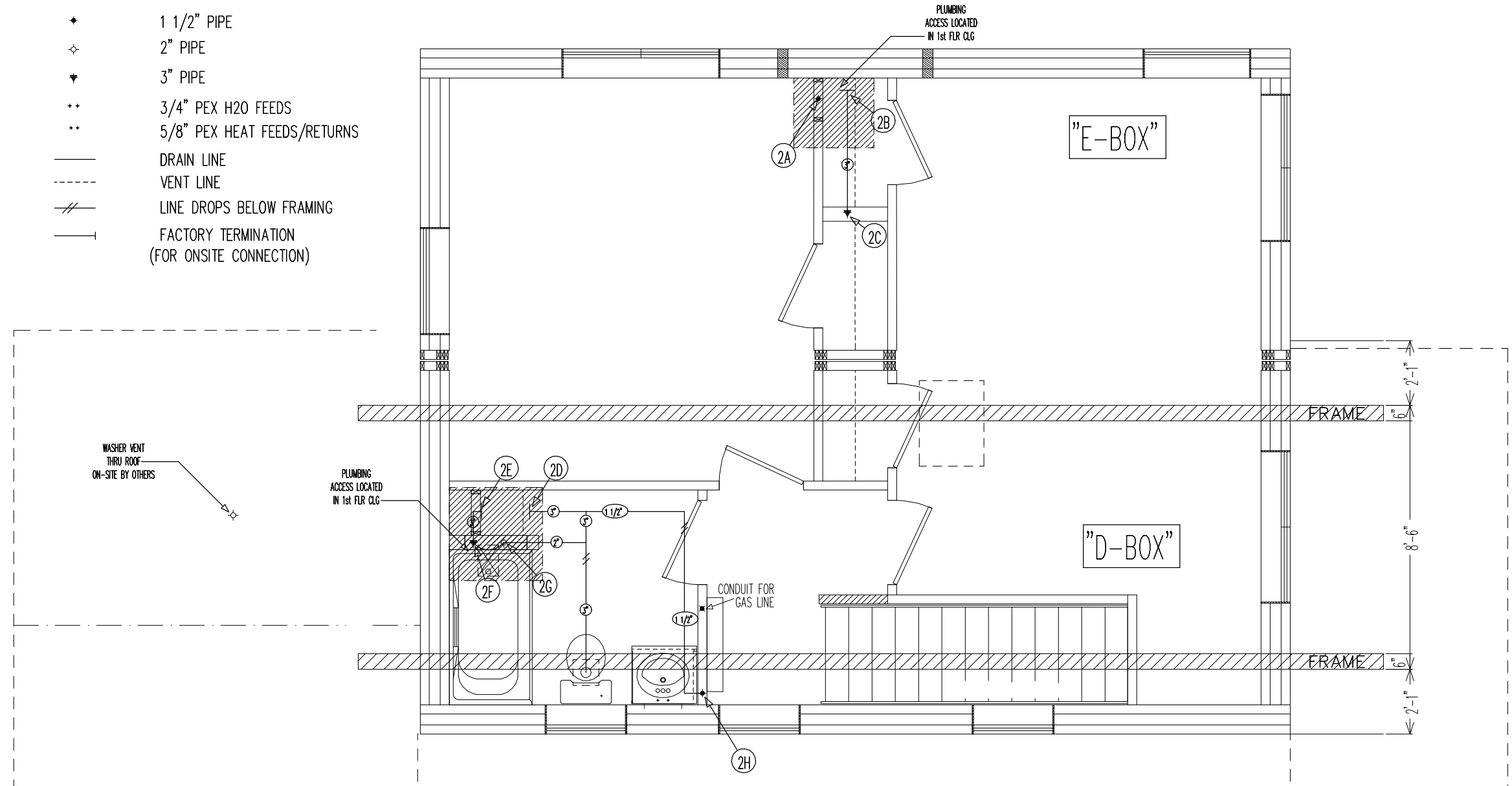
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SCALE:
 1/4"=1'-0"

SHEET NO.
 9A

➤ SYMBOL LEGEND

- ◆ 1 1/2" PIPE
- ◇ 2" PIPE
- ▼ 3" PIPE
- ◆◆ 3/4" PEX H2O FEEDS
- ◆◆ 5/8" PEX HEAT FEEDS/RETURNS
- DRAIN LINE
- - - VENT LINE
- /// LINE DROPS BELOW FRAMING
- FACTORY TERMINATION (FOR ONSITE CONNECTION)

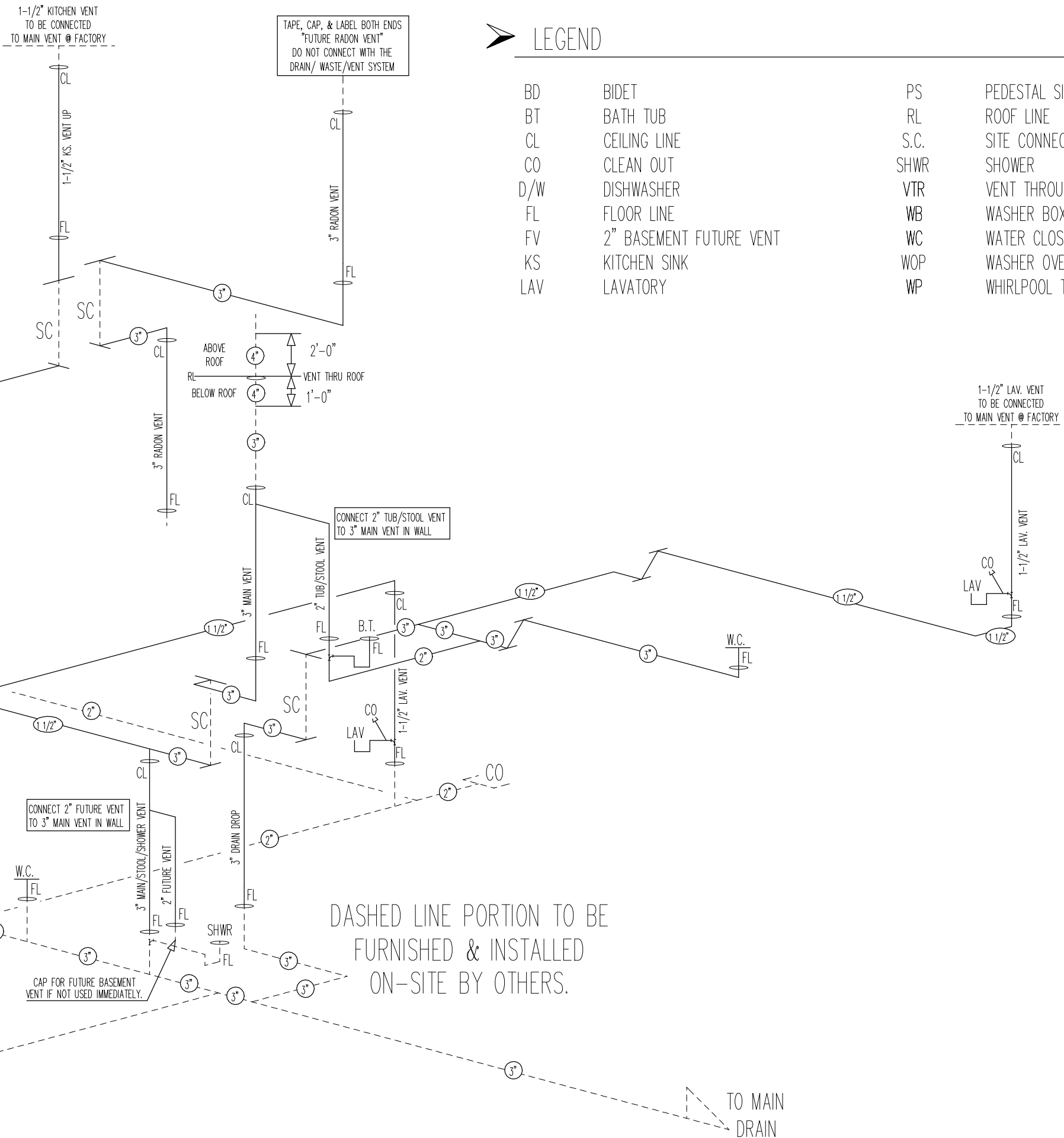


- 1A--1 1/2" KIT VENT UP \ 2" DRAIN DOWN
- 1B--CONNECT TO 2A @ 2nd FLR
- 1D--3" RADON VENT
- 1E--1 1/2" LAV VENT
- 1F--3" 2nd FLR DRAIN DROP --- CONNECT TO 2D @ 2nd FLR
- 1G--(2) 3/4" H2O FEEDS
- 1H--2" FUTURE VENT
- 1J--3" MAIN/STOOL/SHOWER VENT \ SHOWER DRAIN
- 1K--CONNECT TO 2E @ 2nd FLR
- 1L--2" WASHER VENT & DRAIN

- 2A--1 1/2" KIT VENT UP --- CONNECT TO 1B @ 1st FLR
- 2B--CONNECT TO 1D @ 1st FLR
- 2C--3" RADON VENT
- 2D--CONNECT TO 1F @ 1st FLR
- 2E--CONNECT TO 1L @ 1st FLR
- 2F--3" MAIN VENT
- 2G--2" SHOWER/STOOL VENT \ SHOWER DRAIN
- 2H--1 1/2" LAV VENT & DRAIN

RANCHES & 2nd FLR COLONIALS w/TRUSS ROOFS COMPLETED AT FACTORY

- * ALL PLUMBING BELOW FLOOR LINE OF 1st FLR TO BE SUPPLIED/INSTALLED ON SITE BY OTHERS. DWV. VENTING IN ATTIC TRUSS SPACES TO BE COMPLETED AT FACTORY EXCEPT FOR MAIN STACK THROUGH ROOF. MAIN STACK MATERIAL PREPPED AT FACTORY FOR ON-SITE INSTALLATION AFTER ROOF IS ERECTED. ON 4-BOX UNITS TO BE COMPLETED ON-SITE BY OTHERS.
- * TRUSS ROOF VENT COMPLETION MAY BE LIMITED BY FOLDING TRUSS DESIGN. FACTORY TO COMPLETE AS MUCH AS TRUSS WILL ALLOW IN FOLDED POSITION.



LEGEND

BD	BIDET	PS	PEDESTAL SINK
BT	BATH TUB	RL	ROOF LINE
CL	CEILING LINE	S.C.	SITE CONNECTION
CO	CLEAN OUT	SHWR	SHOWER
D/W	DISHWASHER	VTR	VENT THROUGH ROOF
FL	FLOOR LINE	WB	WASHER BOX STAND PIPE
FV	2" BASEMENT FUTURE VENT	WC	WATER CLOSET
KS	KITCHEN SINK	WOP	WASHER OVERFLOW PAN
LAV	LAVATORY	WP	WHIRLPOOL TUB

DWG NO.
KIM 3975

GOTO VIEW:
PTREE

DATE:
10/7/10

PLUMBING LINE SCHEMATICS

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SHEET NO.
90

DWG NO.
 KIM 3975

GOTO VIEW:
 STAIR

DATE:
 7/26/12

40" BOXED CARPET (1) PIECE STAIR
 STRIGHT STAIR
 22'-0" 3/4" WIDE COLONIAL
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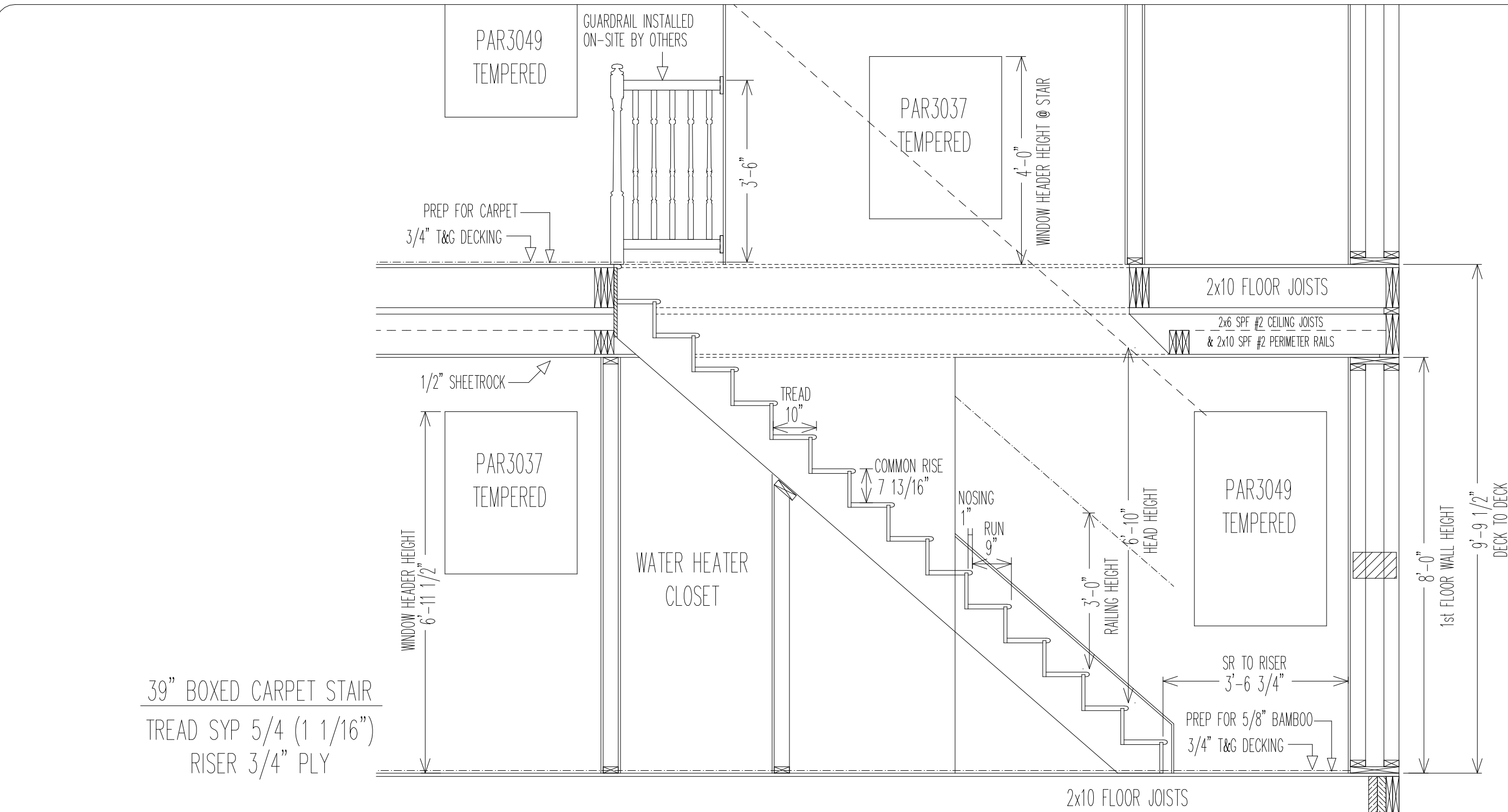
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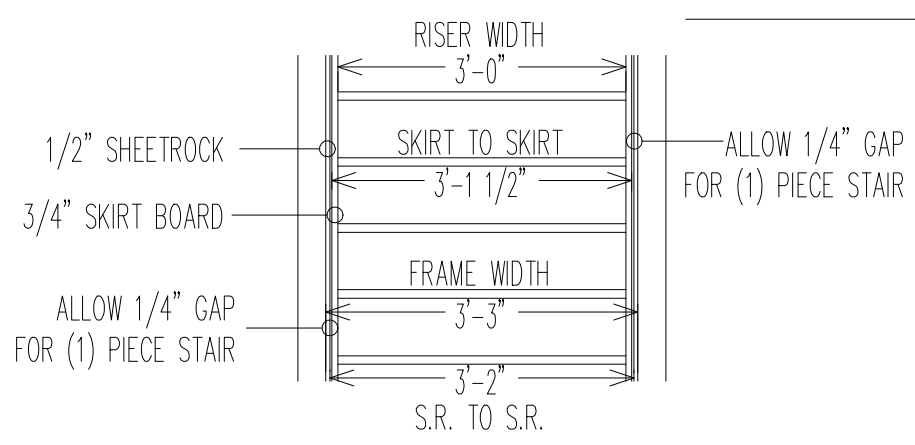
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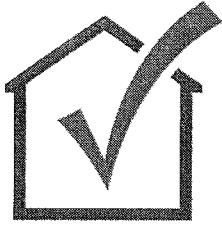
12



39" BOXED CARPET STAIR
 TREAD SYP 5/4 (1 1/16")
 RISER 3/4" PLY



- * RAILING HEIGHT TO BE BETWEEN 34" & 38"
- * ALL BALUSTERS TO BE INSTALLED MAX 3 7/8" SPACE BETWEEN @ WIDEST PART OF OPENING
- * CONTINUOUS HAND RAIL TO BE INSTALLED ON-SITE @ EXTERIOR WALL



REScheck Software Version 4.4.3
Compliance Certificate

Project Title: KIM 3975

Energy Code: **2009 IECC**
 Location: **Portland, Maine**
 Construction Type: **Single Family**
 Glazing Area Percentage: **12%**
 Heating Degree Days: **7378**
 Climate Zone: **6**

Construction Site:
 25 Luther Street
 Lot 15
 Portland, ME 04108

Owner/Agent:
 Hallmark Homes
 PO Box 113
 619 Lewiston Road; Route 196
 Topsham, ME 04086
 207-729-1057

Designer/Contractor:
 Robert Tolliver
 Kesier Homes
 P.O. Box 9000
 56 Mechanic Falls Road
 Oxford, ME 04270
 888-333-1748


Compliance: Passes using UA trade-off

Compliance: **19.9% Better Than Code** Maximum UA: **241** Your UA: **193**
 The % Better or Worse Than Code index reflects how close to compliance the house is based on code trade-off rules.
 It DOES NOT provide an estimate of energy use or cost relative to a minimum-code home.

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Glazing or Door U-Factor	UA
Ceiling: Raised or Energy Truss	866	60.0	0.0		15
Wall: Wood Frame, 16" o.c.	1987	40.0	0.0		74
Single Hung Windows: Vinyl Frame:Triple Pane with Low-E	226			0.280	63
6-Panel Door: Solid	20			0.150	3
9-Lite Door: Glass	20			0.270	5
Crawl 1: Solid Concrete or Masonry Wall height: 5.0' Depth below grade: 4.0' Insulation depth: 5.0' Inside below-grade depth: 0.0'	691	0.0	10.0		33

Compliance Statement: The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2009 IECC requirements in REScheck Version 4.4.3 and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

Robert Tolliver
 Name - Title


 Signature

7/27/2012
 Date

Project Notes:
 Meets 2005 MMHB Energy Standards.

MAINE [One and Two Family Including Townhouses]

MANUFACTURER'S DATA PLATE		FACTORY INSTALLED EQUIPMENT		
Manufacturer <u>KEISER HOMES</u> Address <u>56 MECHANIC FALLS RD. (P.O. BOX 9000)</u> City, State, Zip <u>OXFORD, ME 04270</u>		EQUIPMENT	MANUFACTURER	MODEL NO.
		Heating		
		Cooling		
		Range/Burner		
		Oven	Frigidaire	FFEF3011LB
		Refrigerator	Frigidaire	FFHT1814LB
		Water Heater		
		Dish Washer	Frigidaire	FFBD2409LB
		Disposal		
		Hydro-Massage Tub		
LISTED INDUSTRIALIZED BUILDING		Note: (1) All 1st floor insulation over unconditioned basement spaces to be provided & installed "on-site" by others per state & local code requirements		
Model	22'x28' w/16'x13' Custom Colonial			Note: (2) Wind Speed= 3sg
Occupancy Classification	1&2 FAMILY	Const. Class	"VB"	Note: (3)
Manufacturer's Serial No(s)	KIM 3975 ABCDE			Shipping Weight(s)
Date of Manufacture	DATE =???	Plan Approval No.	N/A	Standard 14-wide Module = Estimated Box Weight = 600PL
Date Data Plate Attached	DATE =???			TRA Label No(s)
Permissible Gas Type(s)	LP AND OR NATURAL GAS			??????; ??????; ??????; ??????
Electric Rating	200 AMP			State Insignia No(s)
Test Voltage/Time	1080 Volts for 1 second			????????-ME
Water Supply: Test Procedure	100psi for 15min			
Floor Design Live Load	40psf 1st / 30psf 2nd / 60psf BALCONY	Design Wind Speed And Exposure	90mph/Exp. B (2)	
Ground Snow Load	60 PSF	Roof Design Live Load	42 PSF	
Exterior Wall Fire Rating	N/R	Seismic Design Category	Category "C"	
Winter Design Temp.: Inside	+72 F	Outside	-20 F	
U ₀ :	Ceiling 0.017	Wall 0.025	Floor 0.053 (1)	
Follow precisely all instructions with this building. Foundations, Installation and Utility Connections are subject to inspection by local authorities.				

CODE REFERENCE PLATE

THIS MANUFACTURED STRUCTURE HAS BEEN CONSTRUCTED IN CONFORMANCE WITH THE FOLLOWING CODES:	
<input checked="" type="checkbox"/>	2008* NATIONAL ELECTRICAL CODE®
<input type="checkbox"/>	INTERNATIONAL BUILDING CODE
<input type="checkbox"/>	INTERNATIONAL MECHANICAL CODE
<input checked="" type="checkbox"/>	2003** INTERNATIONAL PLUMBING CODE
<input checked="" type="checkbox"/>	2009 INTERNATIONAL ENERGY CONSERVATION CODE
<input checked="" type="checkbox"/>	2003* INTERNATIONAL RESIDENTIAL CODE
<input type="checkbox"/>	INTERNATIONAL FUEL GAS CODE
<input type="checkbox"/>	INTERNATIONAL FIRE CODE
<input type="checkbox"/>	UNIFORM BUILDING CODE
<input type="checkbox"/>	UNIFORM PLUMBING CODE
<input type="checkbox"/>	UNIFORM MECHANICAL CODE
<input type="checkbox"/>	NATIONAL STANDARD PLUMBING CODE
<input type="checkbox"/>	
<input type="checkbox"/>	
<input checked="" type="checkbox"/>	MMHB Rules for Radon Mitigation
<input checked="" type="checkbox"/>	*w/State Amendments □8-1/4" max rise 9" min run Basement Stair Geometry allowed w/design
<input checked="" type="checkbox"/>	** Plumbing not reg by the MMHB may be subject to ME State Internal Plumbing (2000UPC*) -pending AHJ input
<input checked="" type="checkbox"/>	2001 NFPA-31 Inst. of Oil Burning Equip.
<input checked="" type="checkbox"/>	2001 NFPA 58 LP Gas Code
<input checked="" type="checkbox"/>	2002 NFPA 54 National Fuel Gas Code
<input checked="" type="checkbox"/>	2005 Maine Energy Code (02-385 Chapter 110)

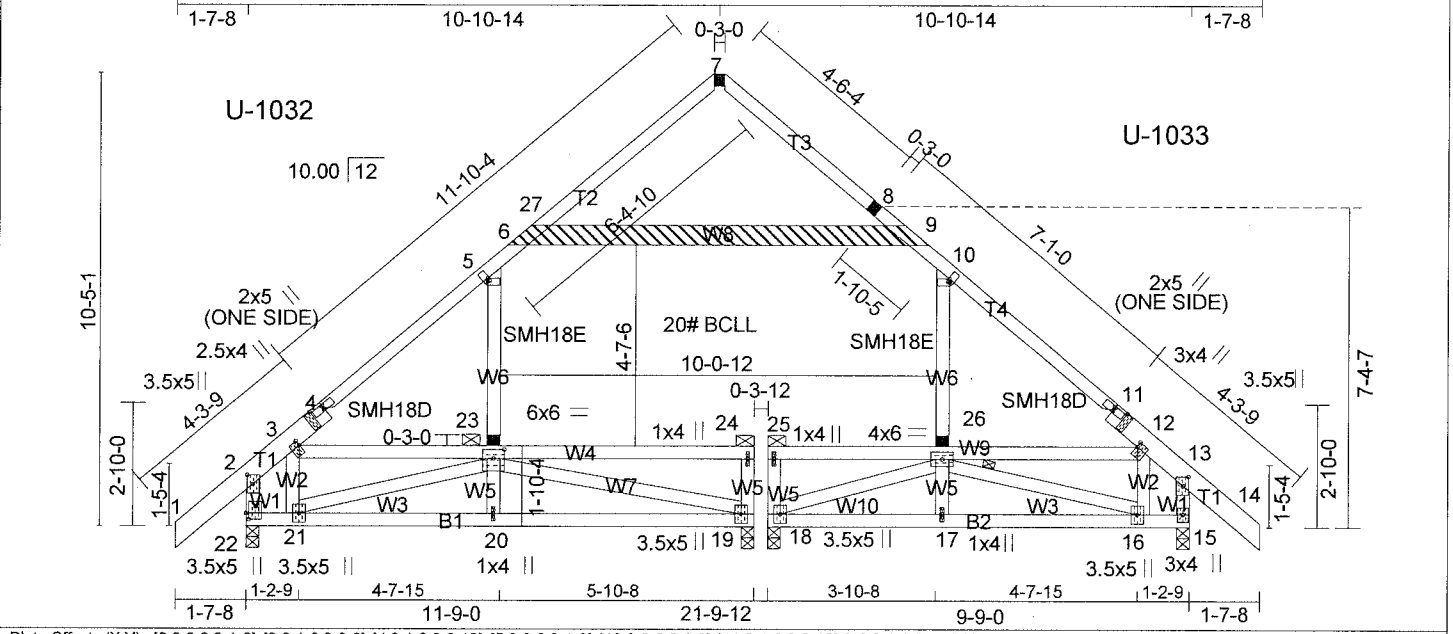


Plate Offsets (X,Y): [2:0-2-8,0-1-8], [3:0-1-8,0-0-0], [4:0-1-8,0-3-12], [5:0-0-0,0-1-0], [10:0-0-0,0-1-0], [11:0-1-8,0-3-12], [12:0-1-8,0-0-4], [13:0-2-8,0-1-8], [22:0-1-12,0-0-12], [23:0-3-0,0-2-8]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 42.9 (Ground Snow=60.0)	1-4-0 Plates Increase 1.15 Lumber Increase 1.15	TC 0.59 BC 0.18 WB 0.89 (Matrix)	in (loc) l/defl L/d Vert(TL) -0.05 20 >999 240 Vert(TL) -0.08 19-20 >999 180 Horz(TL) 0.23 15 n/a n/a	MT20 MT18HS	197/144 0/0
TCDL 10.0	Rep Stress Incr YES				
BCLL 0.0 *	Code IBC2009/TPI2007				
BCDL 10.0				Weight: 127 lb	FT = 0%

LUMBER
 TOP CHORD 2x4 SPF 2100F 1.8E *Except*
 T1: 2x6 SPF 2100F 1.8E
 BOT CHORD 2x4 SPF 2100F 1.8E
 WEBS 2x4 SPF Stud *Except*
 W1, W4, W9: 2x4 SPF No.2, W8: 2x6 SPF No.2

BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end vertical[R]
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 23, 24, 25, 26

REACTIONS (lb/size) 22=579/0-3-8 (min. 0-1-8), 19=385/0-3-8 (min. 0-1-8), 15=501/0-3-8 (min. 0-1-8), 18=420/0-3-8 (min. 0-1-8)
 Max Horz 22=300(LC 8)
 Max Uplift 22=284(LC 10), 19=127(LC 8), 15=367(LC 10), 18=25(LC 9)
 Max Grav 22=701(LC 15), 19=415(LC 3), 15=613(LC 16), 18=496(LC 16)

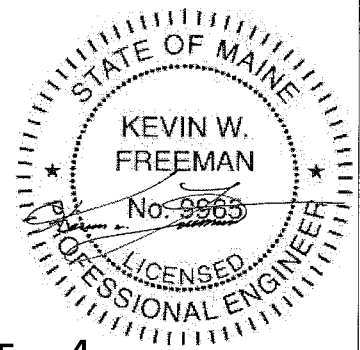
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/155, 2-3=455/237, 3-4=252/404, 4-5=241/432, 5-6=271/364, 6-27=353/78, 7-27=348/98, 7-8=232/104, 8-9=382/86, 9-10=296/329, 10-11=0/294, 11-12=68/287, 12-13=386/239, 13-14=0/155, 2-22=553/326, 13-15=512/319
 BOT CHORD 21-22=280/329, 20-21=454/1130, 19-20=454/1130, 17-18=76/978, 16-17=76/978, 15-16=41/180
 WEBS 10-26=734/87, 5-23=637/268, 3-23=329/280, 23-24=2/4, 3-21=56/245, 25-26=3/4, 12-26=180/41, 12-16=0/260, 19-24=69/2, 18-25=48/0, 20-23=0/168, 17-26=0/128, 19-23=1184/476, 21-23=962/187, 16-26=857/37, 18-26=1081/84, 6-9=46/372

REQUIRED FIELD JOINT CONNECTIONS - Maximum Compression (lb)/ Maximum Tension (lb)/ Maximum Shear (lb)/ Maximum Moment (lb-in)
 6=46/373/2/0, 7=198/106/186/0, 8=330/88/147/0, 9=46/372/0/0, 23=637/268/0/0, 26=734/87/0/0

- NOTES**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg=60.0 psf (ground snow); Ps=42.9 psf (roof snow); Category II, Exp C; Partially Exp.; Ct=1.1
 - 3) Roof design snow load has been reduced to account for slope.
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 14.0 psf or 2.00 times flat roof load of 46.2 psf on overhangs non-concurrent with other live loads.
 - 6) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 7) All plates are MT20 plates unless otherwise indicated.
 - 8) See BEH18 DETAILS for plate placement.
 - 9) Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
 - 10) All additional member connections shall be provided by others for forces as indicated.
 - 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 284 lb uplift at joint 22, 127 lb uplift at joint 19, 367 lb uplift at joint 15 and 25 lb uplift at joint 18.
 - 14) This truss has been designed in accordance with the 2009 IBC Section 2303.4.6, 2009 IRC Section 802.10.2.
 - 15) Attic space shown is not designed for occupancy.
 - 16) Take precaution to keep the chords in plane, any bending or twisting of the hinge plate must be repaired before the building is put into service.
 - 17) The field-installed members are an integral part of the truss design. Retain a design professional to specify final field connections and temporary supports. All field-installed members must be properly fastened prior to applying any loading to the truss. This design anticipates the final set position.

The professional engineering seal indicates that a licensed professional has reviewed the design under the standards referenced within this document, not necessarily the current state building code. The engineering seal is not an approval to use in a specific state. The final determination on whether a truss design is acceptable under the locally adopted building code rest with the building official or designated appointee.

E-signed by Kevin Freeman



I - 4

8/1/2012

WARNING - Verify design parameters and READ NOTES

This building component has only been designed for the loads noted on this drawing. Construction and lifting forces have not been considered. The builder is responsible for lifting methods and system design. Builder responsibilities are defined under TPI1. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult BCSI 1-06 from the Wood Truss Council of America and Truss Plate Institute Recommendation available from WTCA, 6300 Enterprise LN, Madison, WI 53719 J:\support\Mitek\Suppl\templates\lufp.tpe© copyright 2012 by: Universal Forest Products, Inc.



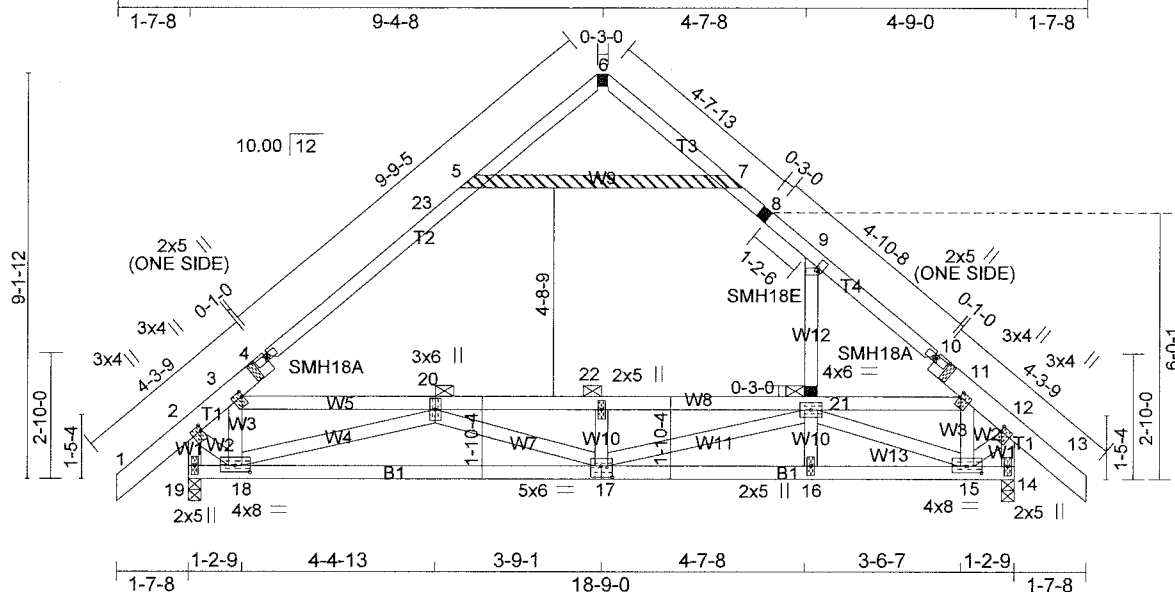


Plate Offsets (X, Y): [2:0-1-8,0-0-4], [3:0-1-8,0-0-4], [4:0-1-8,0-4-12], [4:0-1-0,0-0-0], [9:0-0-0,0-1-0], [10:0-1-8,0-4-12], [10:0-1-0,0-0-0], [11:0-1-8,0-0-4], [12:0-1-8,0-0-4], [15:0-4-0,0-1-12], [17:0-3-0,0-3-0], [18:0-4-0,0-1-12]

LOADING (psf) TCLL 42.9 (Ground Snow=60.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING Plates Increase 1.4-0 Lumber Increase 1.15 Rep Stress Incr YES Code IBC2009/TPI2007	CSI TC 0.30 BC 0.22 WB 0.32 (Matrix)	DEFL in (loc) l/defl L/d Vert(LL) -0.07 17-18 >999 240 Vert(TL) -0.17 17-18 >999 180 Horz(TL) 0.02 14 n/a n/a	PLATES GRIP MT20 197/144 MT18HS 0/0 Weight: 107 lb FT = 0%
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LUMBER TOP CHORD 2x4 SPF 2100F 1.8E *Except* T1: 2x6 SPF 2100F 1.8E BOT CHORD 2x4 SPF 2100F 1.8E WEBS 2x4 SPF Stud *Except* W6,W1,W5,W8,W9: 2x4 SPF No.2	BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. JOINTS 1 Brace at Jt(s): 20, 21, 22
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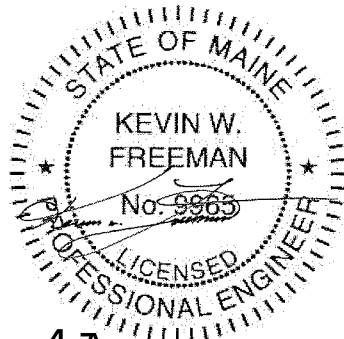
REACTIONS (lb/size) 14=742/0-3-8 (min. 0-1-8), 19=741/0-3-8 (min. 0-1-8)
Max Horz 19=267(LC 8)
Max Uplift 14=302(LC 10), 19=302(LC 9)
Max Grav 14=899(LC 2), 19=899(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/155, 2-3=535/199, 3-4=785/264, 4-23=651/278, 5-23=573/291, 5-6=-181/62, 6-7=-186/56, 7-8=491/310, 8-9=568/301, 9-10=689/350, 10-11=750/333, 11-12=-496/224, 12-13=0/155
BOT CHORD 18-19=-268/267, 17-18=-2/657, 16-17=-192/863, 15-16=-192/863, 14-15=-1/0
WEBS 2-19=-969/290, 12-14=-901/330, 9-21=-251/268, 3-20=-156/84, 20-22=-719/211, 21-22=-720/211, 11-21=-219/227, 3-18=-376/167, 11-15=-424/251, 16-21=90/92, 17-22=-11/5, 17-21=-78/341, 15-21=-584/272, 5-7=-439/347, 18-20=-392/165, 17-20=-135/261, 2-18=-103/650, 12-15=-147/593

REQUIRED FIELD JOINT CONNECTIONS - Maximum Compression (lb)/ Maximum Tension (lb)/ Maximum Shear (lb)/ Maximum Moment (lb-in)
5=446/349/8/0, 6=114/63/112/0, 7=439/347/0/0, 8=519/305/170/0, 21=251/268/0/0

- NOTES**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 - 3) Roof design snow load has been reduced to account for slope.
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 - 8) See BEH18 DETAILS for plate placement.
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 - 10) All additional member connections shall be provided by others for forces as indicated.
 - 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 302 lb uplift at joint 14 and 302 lb uplift at joint 19.
 - 14) This truss has been designed in accordance with the 2009 IBC Section 2303.4.6, 2009 IRC Section 802.10.2.
 - 15) Take precaution to keep the chords in plane, any bending or twisting of the hinge plate must be repaired before the building is put into service.
 - 16) The field-installed members are an integral part of the truss design. Retain a design professional to specify final field connections and temporary supports. All field-installed members must be properly fastened prior to applying any loading to the truss. This design anticipates the final set position.

E-signed by Kevin Freeman



I-4A 8/1/2012

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WARNING - Verify design parameters and READ NOTES

Universal Forest Products, Inc. 2801 EAST BELTLINE RD, NE
PHONE (616)-364-6161 FAX (616)-365-0060 GRAND RAPIDS, MI 49525

This building component has only been designed for the loads noted on this drawing. Construction and lifting forces have not been considered. The builder is responsible for lifting methods and system design. Builder responsibilities are defined under TPI1. This design is based only on parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult BCSI 1-06 from the Wood Truss Council of America and Truss Plate Institute Recommendation available from WTCA, 6300 Enterprise LN, Madison, WI 53719 J:\support\MitekSupp\templates\lufp.tpe© copyright 2012 by: Universal Forest Products, Inc.