



Residential Code Series: Plumbing, Mechanical and Radon

PART ONE
Plan Review

Plan Review Objectives Plumbing, Mechanical and Radon

At the conclusion of this plan review section, participants should be able to:

- 1. Determine construction documents needed
- 2. Evaluate calculations of heat gain and heat loss
- 3. Verify that equipment chosen meets requirements
- 4. Evaluate compliance for proposed installation of gas meter and piping based on drawings
- 5. Evaluate potable water supply system for installation
- 6. Evaluate DWV system based on drawings
- 7. Develop a list for inspection and testing
- 8. Evaluate Radon system installation drawings or narrative



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- What is the intent of the code
- R101.3 Intent
 - · Minimum requirements
 - · Safeguard public safety
 - · Insure structural strength
 - Provide
 - Means of egress
 - Sanitation
 - Light and ventilation
 - Energy conservation
 - Safety from fire (occupants and firefighters)

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- Part1
- · What you should be getting for Construction Documents
- <u>*R106.1*</u>
 - Two or more sets
 - Design Professional where required
 - *Exception*: BO authorized to waive certain documents and data



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- R106.1.1 Information on construction documents
 - Suitable material
 - Electronic media (where approved by BO)
 - · Sufficient clarity
 - Nature and extent of the work
 - · Conforms to provisions of code

Manufacturer's installation instructions

· Available on job site

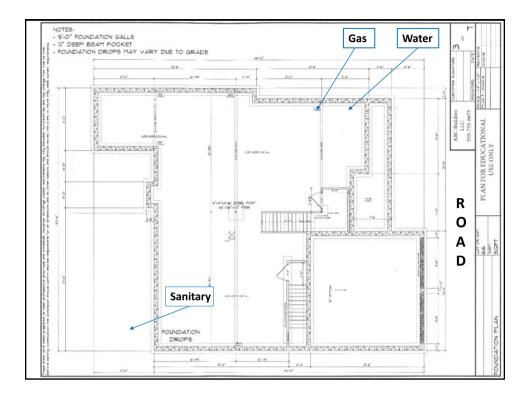
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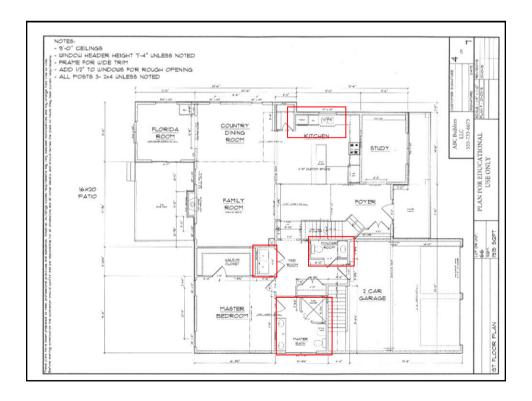
- What was submitted for this project
 - 7 pages of drawings
 - Heat loss/gain calculation based on ACCA Manual J and D
 - REScheck compliance certificate with checklist
 - We are looking at Empirically designed systems



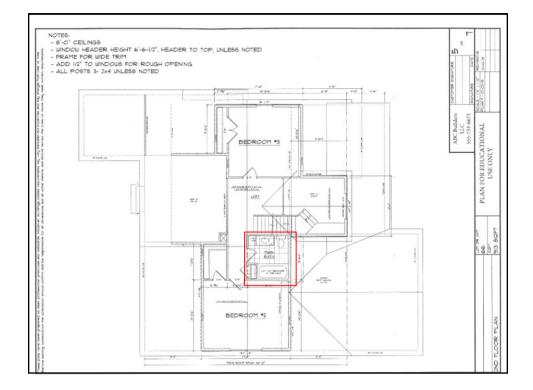


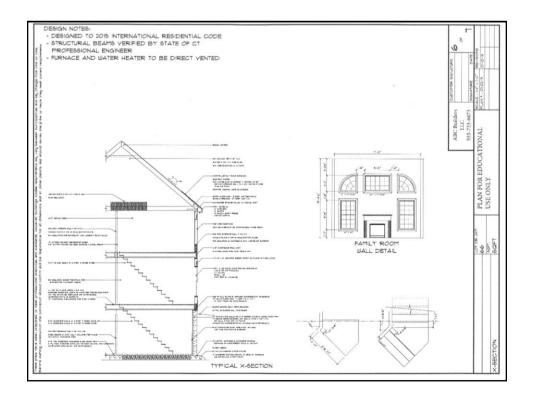




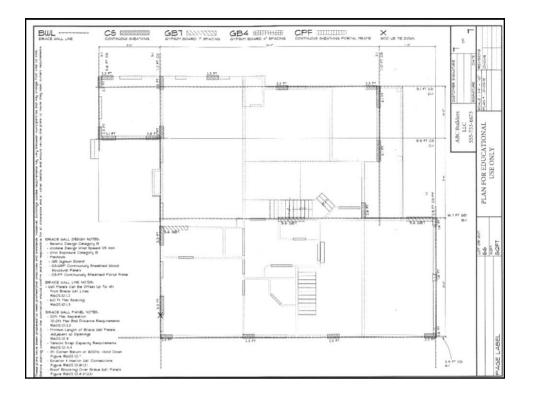


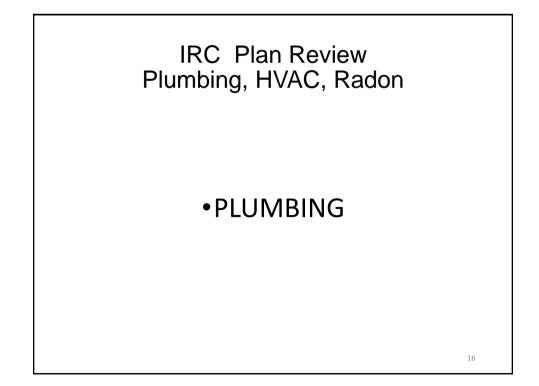




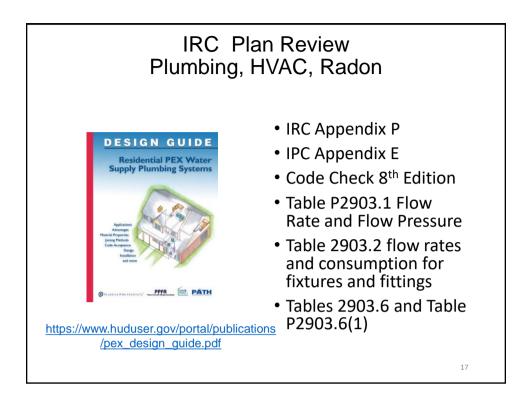


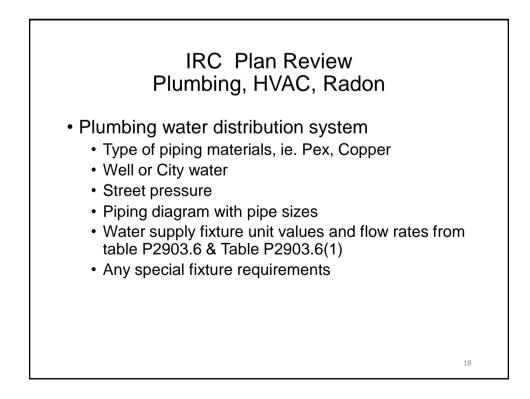




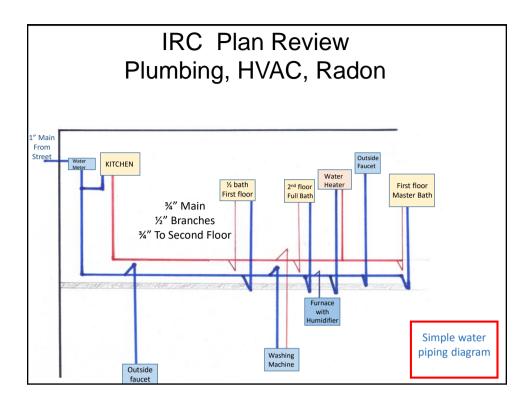


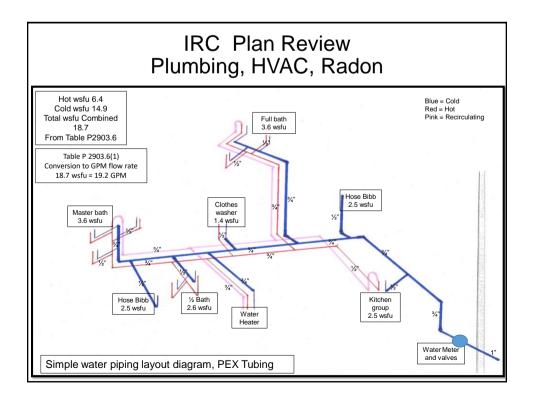














		C Plan					
	Plumb	oing, H∖	/AC,	Rad	on		
WATER-SUPF	PLY FIXTURE-UNIT VAL	TABLE P2	2903.6 US PLUMB	ING FIXTU	RES AND FIXTURE G	ROUPS	
TYPE OF P	IXTURES OR GROUP OF	IXTURES	ļ	WATER-SUPPLY FIXTURE-UNIT VALUE (w.s.f.u.)			
Bathtub (with/without overhea	1.1	Hot L.O	Cold L.0	Combined			
Clothes washer	ad shower nead)	1.0	1.0	1.4			
Dishwasher	-	1.4	1.0	1.4			
full-bath group with bathtub (with/without shower he	ad) or shower stall		1.5	2.7	3.6	
Ialf-bath group (water closet		ady or anower start		0.5	2.5	2.6	
Iose bibb (sillcock)	and havalony)			0.5	2.5	2.5	
Citchen group (dishwasher an	d sink with or without fe	ood-waste disposer	a	1.9	1.0	2.5	
Sitchen sink	a sink tritt of without it	Jou-mane disposer	· ·	1.9	1.0	1.4	
aundry group (clothes washe	r standpipe and launder	tub)		1.8	1.8	2.5	
aundry tub	- changeppe and faultury			1.0	1.0	1.4	
avatory				0.5	0.5	0.7	
shower stall				1.0	1.0	1.4	
Water closet (tank type)					2.2	2.2	
The fixture unit value 2.5 assur furnish a greater flow, the equiv	nes a flow demand of 2.5 g valent fixture-unit value ma	TABLE P29	his table or T 903.6(1)	able P2903.6	levice. If a hose bibb or (1).	-	
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IRC Plan Review Plumbing, HVAC, Radon

• Water supply fixture unit values from Table P2903.6

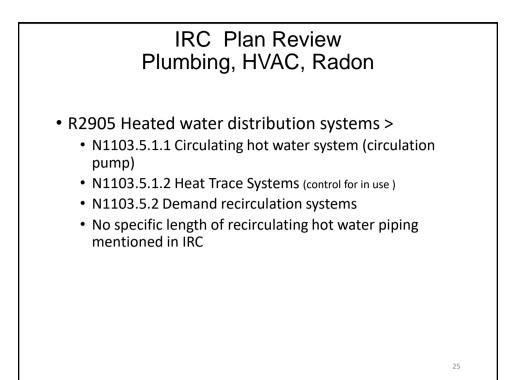
Half Bath .5 2.5 2.6 2 Hose Bibbs 0 5.0 5.0 Clothes washer 1 1 1.4 Kitchen group 1.9 1 2.5	Fixtures	Hot	Cold	Combined
Half Bath .5 2.5 2.6 2 Hose Bibbs 0 5.0 5.0 Clothes washer 1 1 1.4 Kitchen group 1.9 1 2.5				
P. Hose Bibbs05.05.0Clothes washer111.4Clothes group1.912.5	2 Full Baths	3	5.4	7.2
Clothes washer 1 1 1.4 Kitchen group 1.9 1 2.5	1 Half Bath	.5	2.5	2.6
(itchen group 1.9 1 2.5	2 Hose Bibbs	0	5.0	5.0
	Clothes washer	1	1	1.4
otal 6.4 14.9 18.7	Kitchen group	1.9	1	2.5
otal 6.4 14.9 18.7				
	Total	6.4	14.9	18.7

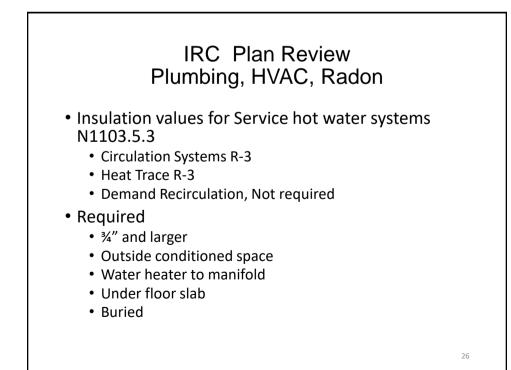


	IRC Plumbir						on				
• 18.7 WSFU	from table D	000	26								
• 10.7 WSFU	nom table P	290	5.0								
MINIMUM SIZE OF V	Table AP201.1 MINIMUM SIZE OF WATER METERS, MAINS AND DISTRIBUTION PIPING BASED ON WATER SUPPLY FIXTURE UNIT VALUES										
METER AND GERMON DIRE	DISTRIBUTION DIDE	1									1
METER AND SERVICE PIPE (inches)	DISTRIBUTION PIPE (inches)			МА	XIMUM	DEVELOP	MENT LE	ENGTH (fe	eet)		
(inches) Pressure Ra	(inches) nge Over 60	40	60	80	100	150	200	250	300	400	500
(inches) Pressure Ra	(inches) nge Over 60 1/2	3	3	80 3	100 2.5	150 2	200 1.5	250 1.5	300 1	1	0.5
(inches) Pressure Ra 3/4 3/4	(inches) nge Over 60 1/2 ^a 3/4	3 9.5	3 9.5	80 3 9.5	100 2.5 9.5	150 2 7.5	200 1.5 6	250 1.5 5	300 1 4.5	1 3.5	0.5
(inches) Pressure Ra 3/4 3/4 3/4 3/4	(inches) nge Over 60 1/2 ^a 3/4 1	3 9.5 32	3 9.5 32	80 3 9.5 32	100 2.5 9.5 32	150 2 7.5 32	200 1.5 6 24	250 1.5 5 19.5	300 1 4.5 15.5	1 3.5 11.5	0.5 3 9.5
(inches) Pressure Ra 3/4 3/4 3/4 1	(inches) nge Over 60 1/2 3/4 1 1	3 9.5 32 32	3 9.5 32 32	80 3 9.5 32 32	100 2.5 9.5 32 32	150 2 7.5 32 32	200 1.5 6 24 28	250 1.5 5 19.5 28	300 1 4.5 15.5 17	1 3.5 11.5 12	0.5 3 9.5 9.5
(inches) Pressure Ra ³ / ₄ ³ / ₄ ¹ ³ / ₄ ³ / ₄	(inches) nge Over 60 1/2 s 3/4 1 1 1 1 ¹ /4	3 9.5 32 32 32 32	3 9.5 32 32 32	80 3 9.5 32 32 32	100 2.5 9.5 32 32 32 32	150 2 7.5 32 32 32	200 1.5 6 24 28 32	250 1.5 5 19.5 28 32	300 1 4.5 15.5 17 32	1 3.5 11.5 12 32	0.5 3 9.5 9.5 30
(inches) Pressure Ra 3/4 3/4 1 1 3/4 1 1 1	(inches) nge Over 80 1/2 * 3/4 1 1 1 1/4 1 ¹ /4	3 9.5 32 32 32 32 80	3 9.5 32 32 32 80	80 3 9.5 32 32 32 80	100 2.5 9.5 32 32 32 32 80	150 2 7.5 32 32 32 80	200 1.5 6 24 28 32 80	250 1.5 5 19.5 28 32 69	300 1 4.5 15.5 17 32 60	1 3.5 11.5 12 32 46	0.5 3 9.5 9.5 30 36
(inches) Pressure Ra 3/4 3/4 1 1 3/4 1 1 1/2	(inches) nge Over 80 $\frac{1/2^6}{3/4}$ 1 1 1 1 $1^{1/4}_4$ $1^{1/4}_4$ $1^{1/4}_4$	3 9.5 32 32 32 32 80 80	3 9.5 32 32 32 32 80 80	80 3 9.5 32 32 32 80 80	100 2.5 9.5 32 32 32 32 80 80	150 2 7.5 32 32 32 32 80 80	200 1.5 6 24 28 32 80 80	250 1.5 5 19.5 28 32 69 76	300 1 4.5 15.5 17 32 60 65	1 3.5 11.5 12 32 46 50	0.5 3 9.5 9.5 30 36 38
(inches) Pressure Ra ³ / ₄ ³ / ₄ 1 1 1 1 1 ¹ / ₂ 1	(inches) inge Over 60 $\frac{1/2^6}{3/4}$ 1 1 1 $\frac{1}{1/4}$ $\frac{1}{1/4}$ $\frac{1}{1/4}$ $\frac{1}{1/4}$ $\frac{1}{1/4}$ $\frac{1}{1/4}$	3 9.5 32 32 32 32 80 80 80 87	3 9.5 32 32 32 32 80 80 80	80 3 9.5 32 32 32 32 80 80 80	100 2.5 9.5 32 32 32 32 80 80 80 87	150 2 7.5 32 32 32 32 80 80 80 87	200 1.5 6 24 28 32 80 80 87	250 1.5 5 19.5 28 32 69 76 87	300 1 4.5 15.5 17 32 60 65 87	1 3.5 11.5 12 32 46 50 87	0.5 3 9.5 9.5 30 36 38 84
(inches) Pressure Ra 3/4 3/4 1 1 3/4 1 1 1/2	(inches) nge Over 80 $\frac{1/2^6}{3/4}$ 1 1 1 1 $1^{1/4}_4$ $1^{1/4}_4$ $1^{1/4}_4$	3 9.5 32 32 32 32 80 80	3 9.5 32 32 32 32 80 80	80 3 9.5 32 32 32 80 80	100 2.5 9.5 32 32 32 32 80 80	150 2 7.5 32 32 32 32 80 80	200 1.5 6 24 28 32 80 80	250 1.5 5 19.5 28 32 69 76	300 1 4.5 15.5 17 32 60 65	1 3.5 11.5 12 32 46 50	0.5 3 9.5 9.5 30 36 38
(inches) Pressure Ra ³ / ₄ ³ / ₄ 1 1 1 1 1 ¹ / ₂ 1	(inches) inge Over 60 $\frac{1/2^6}{3/4}$ 1 1 1 $\frac{1}{1/4}$ $\frac{1}{1/4}$ $\frac{1}{1/4}$ $\frac{1}{1/4}$ $\frac{1}{1/4}$ $\frac{1}{1/4}$	3 9.5 32 32 32 32 80 80 80 87	3 9.5 32 32 32 32 80 80 80	80 3 9.5 32 32 32 32 80 80 80	100 2.5 9.5 32 32 32 32 80 80 80 87	150 2 7.5 32 32 32 32 80 80 80 87	200 1.5 6 24 28 32 80 80 87	250 1.5 5 19.5 28 32 69 76 87	300 1 4.5 15.5 17 32 60 65 87	1 3.5 11.5 12 32 46 50 87	0.5 3 9.5 9.5 30 36 38 84
(inches) Pressure Ra ³ / ₄ ³ / ₄ ³ / ₄ 1 ³ / ₄ 1 ¹ / ₂ 1 1 ¹ / ₂	(inches) inge Over 60 $\frac{1/2^6}{3/4}$ 1 1 1 $\frac{1}{1/4}$ $\frac{1}{1/4}$ $\frac{1}{1/4}$ $\frac{1}{1/4}$ $\frac{1}{1/4}$ $\frac{1}{1/4}$ $\frac{1}{1/4}$	3 9.5 32 32 32 32 80 80 80 87 151	3 9.5 32 32 32 80 80 80 87 151	80 3 9.5 32 32 32 80 80 87 151	100 2.5 9.5 32 32 32 80 80 87 151	150 2 7.5 32 32 32 80 80 87 151	200 1.5 6 24 28 32 80 80 80 87 151	250 1.5 5 19.5 28 32 69 76 87 151	300 1 4.5 15.5 17 32 60 65 87 144	1 3.5 11.5 12 32 46 50 87 114	0.5 3 9.5 9.5 30 36 38 84 94
(inches) Pressure Ra ³ / ₄ ³ / ₄ 1 1 ³ / ₄ 1 1 1/ ₂ 1 1 ¹ / ₂ 2	(inches) nge Over 60 $\frac{1/2^{6}}{3/4}$ 1 1 1 $\frac{1}{1/4}$ $\frac{1}{1/4}$ $\frac{1}{1/4}$ $\frac{1}{1/2}$ $\frac{1}{1/2}$ $\frac{1}{1/2}$ $\frac{1}{2}$	3 9.5 32 32 32 80 80 87 151 151	3 9.5 32 32 32 80 80 80 87 151 151	80 3 9.5 32 32 32 80 80 87 151 151	100 2.5 9.5 32 32 32 80 80 80 87 151 151	150 2 7.5 32 32 32 80 87 151	200 1.5 6 24 28 32 80 80 87 151 151	250 1.5 5 19.5 28 32 69 76 87 151 151	300 1 4.5 15.5 17 32 60 65 87 144 151	1 3.5 11.5 12 32 46 50 87 114 118	0.5 3 9.5 9.5 30 36 38 84 94 97
(inches) Pressure Ra 3/4 3/4 1 1 3/4 1 1 1/2 1 1 ¹ /2 1 1 ¹ /2 1 1 ¹ /2 1 1 ¹ /2 1 1 ¹ /2 1 1 ¹ /2 1 1 1 ¹ /2 1 1 1 1 1 1 1 1 1 1 1 1 1	(inches) nge Over 80 $\frac{1/2^{6}}{3/4}$ 1 1 1 $1^{1/4}$ $1^{1/4}$ $1^{1/4}$ $1^{1/4}$ $1^{1/4}$ $1^{1/2}$ $1^{1/2}$ $1^{1/2}$ $1^{1/2}$ 2	3 9.5 32 32 32 80 80 80 87 151 151 87	3 9.5 32 32 32 32 80 80 80 87 151 151 87	80 3 9.5 32 32 32 80 80 87 151 151 87	100 2.5 9.5 32 32 32 80 80 80 87 151 151 87	150 2 7.5 32 32 32 80 80 87 151 151	200 1.5 6 24 28 32 80 80 87 151 151 87	250 1.5 5 19.5 28 32 69 76 87 151 151 87	300 1 4.5 15.5 17 32 60 65 87 144 151 87	1 3.5 11.5 12 32 46 50 87 114 118 87	0.5 3 9.5 9.5 30 36 38 84 94 97 87

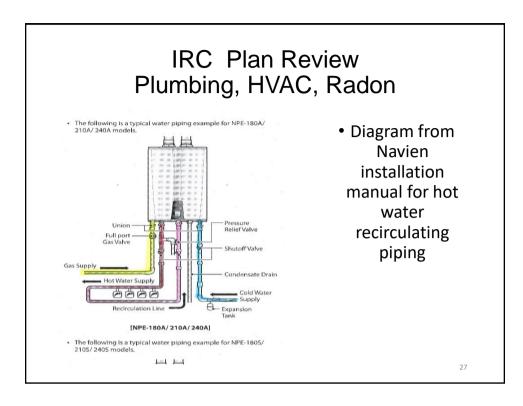


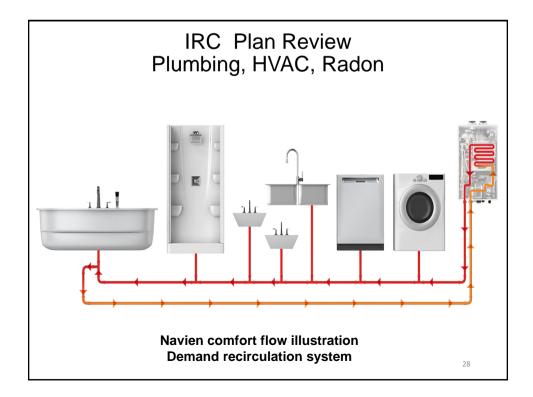
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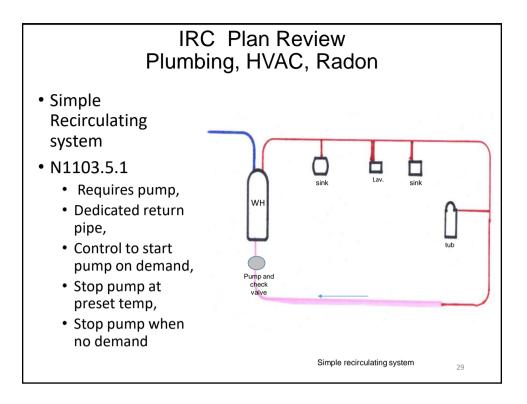


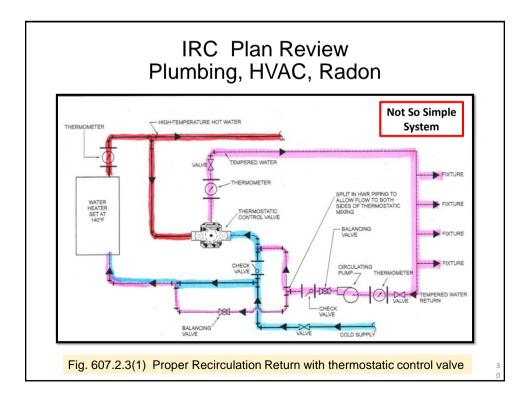




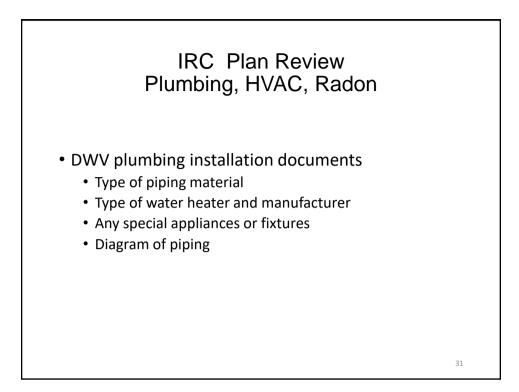


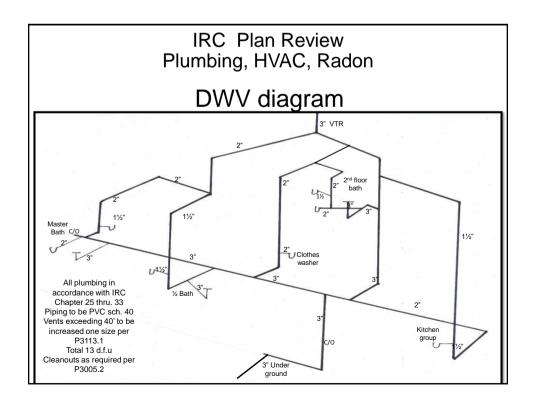


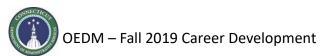




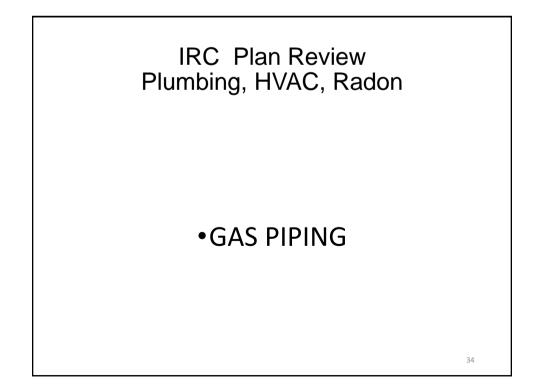




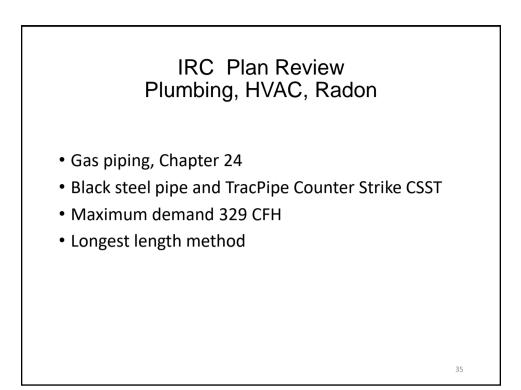


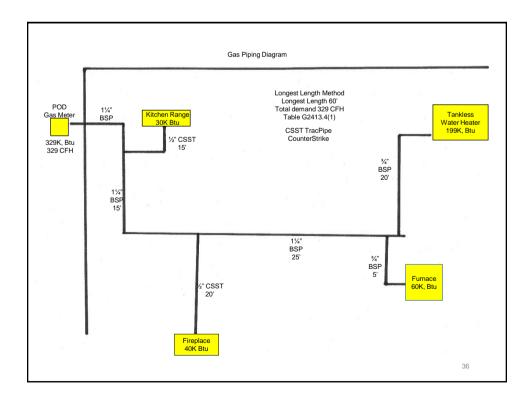


	n Review VAC, Radon	
Drainage Fixture Unit	(d.f.u.) values Table 3004.1	
Type of fixture or group	d.f.u. values	
2.5 Bath groups	9	
Clothes washer	2	
Kitchen group	2	
Total	13	
-	able 3005.4.2, piping shown on is adequate	I
		33

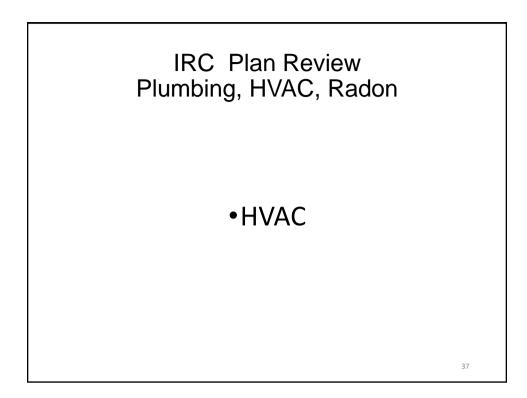


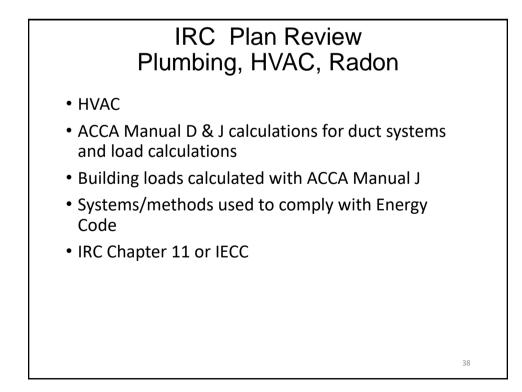














IRC Plan Review Plumbing, HVAC, Radon

- HVAC
- M1401.3
- Sizing per ACCA Manual S
- Duct systems ACCA Manual D/Chapter 16 IRC
- Building loads calculated per ACCA Manual J or
- Other approved calculation methodologies

thvac - Residential & L FOR EDUCA	TIONAL USE		is				are Development, hit #66 Page 1
Project Report							
Beneral Project Infor	mation	Contraction of the second	Westment of these	Charles (P. N	Start Park Start	Construction of the second second	Nonex department design
Project Title: Designed By: Project Date: Company Name: Company Address: Company Address: Company Phone: Company Fax: Company Fax: Company Website:	Ur Ru: 02 AB ative: Rus 123 Any 555	hit #66 sty Nall -:16-18 C Builders LL sty Nall 3 Main St. 7 Town CT 5-733-6673	.c				
Design Data	ener an		Satisfied and		Maria Maria	States and the second	
Reference City: Building Orientation: Daily Temperature R atitude: Elevation: Nititude Factor:	ange:	ο.					
Vinter: Summer:	Outdoor Dry Bulb 7 88	Outdoor Wet Bulb 6.1 73	Outdoor <u>Rel.Hum</u> n/a 49%	Indoor <u>Rel.Hum</u> n/a 50%	Indoor Dry Bulb 70 70	Grains <u>Difference</u> n/a 44	
	00	75	4378	50 /1	10		
Check Figures Total Building Supply Square ft. of Room A Volume (ft ³):			871 4,446 27,529		Per Square ft ∋ ft. Per Ton		0.196 2,345
Building Loads							
otal Heating Requir otal Sensible Gain: otal Latent Gain:	-		19, 3,	989 Btuh 143 Btuh 604 Btuh	36.989 84 16	%	ensible + Lotant)
Fotal Cooling Requir	ea including	ventilation A	r. 22,	747 Btuh	1.90	Tons (Based Of a	ensible * Latent)
Notes Rhvac is an ACCA a Calculations are perf All computed results Be sure to select a u Your design condition	ormed per A are estimate nit that meets	CCA Manual s as building	J 8th Edition. use and wea	Version 2, a ther may var	nd ACCA Ma		mance data at



Rhvac - Residential & Light Commercial I For Educational use only	HVAC Loads		1 Barris		Elite	Software Deve Unit #66 Page	
System 1 Main Floor Sun	nmary Loads		C.C.C. C. C.C. Conner			200 Belding in Comme	
Component		and the second	Area	Sen	Lat	Sen	Total
Description		S. AR SAM	Quan	Loss	Gain	Gain	Gain
Koltech Window: Glazing-Koltech Win SHGC 0.26		,	20	353	0	201	201
Kohltech Window: Glazing-Kohltech W 0.27, SHGC 0.27			289.5	4,922	0	5,961	5,961
Kohltech Slider: Glazing-Slider, u-valu	e 0.29, SHGC 0.3	1	40	731	0	1,339	1,339
Full Glass: Door-Full Glass Door			40	756	0	348	348
Full: Door-Full Door			40	428	0	198	198
R-19: Wall-Frame, Custom, R-19 Batt		2	2813.7	12,056	õ	4,901	4,901
R-10 Cont: Wall-Basement, Custom, E		1.7	1696	4,593	0	0	0
R-49: Roof/Ceiling-Under Attic with Ins	sulation on Attic		1797.9	2,265	õ	2,513	2,513
Floor (also use for Knee Walls and Ceilings), Custom, R-49 Blown Ins							
R-38 + 2.5: Roof/Ceiling-Under Attic w	ith Insulation on		186.4	235	0	93	93
Attic Floor (also use for Knee Wal							
Cellings), Custom, Cathedral R-38: Floor-Over open crawl space or	annan Cuntom		33.8	55	0	11	11
R-38: Floor-Over open crawl space or Over Garage	garage, Custom,		33.0	00	0		
Slab: Floor-Basement, Custom, Baser	ment Slab		1914	2,653	0	0	C
Subtotals for structure:				29,047	0	15,565	15,565
People:			8		1,840	2,400	4,240
Equipment:					0	0	C
Lighting:			0			0	C
Ductwork:				0	0	0	C
Infiltration: Winter CFM: 115, Summe	r CFM: 60			7,942	1,764	1,178	2,942
Ventilation: Winter CFM: 0, Summer				0	0	0	C
System 1 Main Floor Load Totals:				36,989	3,604	19,143	22,747
Check Figures	No. Sold State State State	1. The second	A CONTRACTOR			S. S. WEIGHTS MILLING	0.100
Supply CFM:	871			er Square ft			0.196
Square ft. of Room Area:	4,446		Square	ft. Per Ton:			2,345
Volume (ft ³):	27,529	_	_				
System Loads Total Heating Required Including Ver	tilation Air	36,989	Btuh	36.989	MBH	Constraint and the second	and the strength of the strength
Total Heating Required Including Ver Total Sensible Gain:	itilation Air.	19,143	Btuh		%		
		3,604	Btuh		%		
Total Latent Gain: Total Cooling Required Including Ver		22,747	Btuh		Tons (Based	On Rensible	+ Latent)

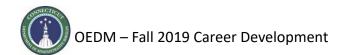
Rhvac is an ACCA approved Manual J and Manual D computer program. Calculations are performed per ACCA Manual J 8th Edition, Version 2, and ACCA Manual D. All computed results are estimates as building use and weather may vary. Be sure to select a unit that meets both sensible and latent loads according to the manufacturer's performance data at your design conditions.

System 1 Room L	oad Sun	many				and the second second	a construction of the state		
System Proon E	oud our	Htg	Min	Run	Run	Cla	Clg	Min	Act
Room	Area	Sens	Htg	Duct	Duct	Sens	Lat	Clg	Sys
No Name	SF	Btuh	ÇFM	Size	Vel	Btuh	Btuh	CEM	CFM
- <u>-Zone 1</u> 1 Fover	275	3,780	76	1-6	300	1,296	209	59	59
2 Study	138	2,274	46	1-6	240	1.036	132	47	47
3 Kitchen	249	1.367	28	1-6	462	1,996	1.014	91	91
4 Dining Room	196	1,524	31	1-6	298	1,287	80	59	59
5 Florida Room	144	3,557	72	2-6	374	3,232	176	147	147
6 Family Room	275	3,062	62	2-6	344	2,966	1,063	135	135
7 Master Bedroom	253	2,527	51	1-6	296	1,277	156	58	58
8 Master Walk In	74	442	9	1-6	50 185	216	29 108	36	36
9 Master Bath 10 Mud Room	122	1,501	15	1-6	64	278	48	13	13
11 Powder Room	28	223	5	1-6	19	82	17	4	4
Zone 1 subtotal	1,908	21,002	425	1-0	10	14,465	3,032	658	658
-Zone 1 subtotal	1,908	21,002	420			14,400	0,002	000	056
12 Bedroom 2	248	3.212	65	1-6	471	2.035	199	93	93
13 Bed 2 Walk In	36	697	14	1-6	61	265	53	12	12
14 2nd Floor Hall	34	377	8	1-6	28	123	30	6	6
15 Main Bath	72	549	11	1-6	59	255	37	12	12
16 Bedroom 3	234	3,077	62	1-6	375	1,617	209	74	74
17 Heated Basement	1,914	8,075	163	1-6	89	383	44	17	17
Zone 2 subtotal	2,538	15,987	323			4,678	572	213	213
System 1 total	4,446	36,989	748			19,143	3,604	871	871
System 1 Main Trunk Size /elocity:	1		n. ./min						
oss per 100 ft.: Jote: Since the system is	multizone, t	0.091 ir he Peak F	n.wg	Sain Proce	dure was	used to del	ermine glas	s sensible	gains
oss per 100 ft.:	Is, so the su s at the syst gain for the on" method.	he Peak F ms of the : em level. zone is a	n.wg enestration C zone sensible Room and zo t its peak. Se	e gains an one sensit	d airflows f le gains ar ins at the s	or cooling	shown abov CFM values I are based	e are not are for the	hour rerage
oss per 100 ft.: lote: Since the system is it the room and zone levent ended to equal the total which the glass sensible oad Procedure + Excursi	Is, so the su s at the syst gain for the on" method. Cooling	he Peak F ms of the : em level. zone is a	n.wg enestration C zone sensible Room and zo t its peak. Se ible/Latent	e gains an one sensit	d airflows f ble gains ar ins at the s Sensible	or cooling	Shown abov CFM values are based Latent	e are not are for the	hour erage Total
coss per 100 ft.: jote: Since the system is it the room and zone leve itended to equal the total out procedure + Excursi Gooling System Summary	Is, so the su s at the syst gain for the on" method.	he Peak F ms of the : em level. zone is a Sens	n.wg enestration C zone sensible Room and zo t its peak. Se	e gains an one sensit	d airflows f le gains ar ins at the s	or cooling	shown abov CFM values I are based	e are not are for the	hour erage Tota Btub
.oss per 100 ft.: lote: Since the system is it the room and zone leve itended to equal the total out Procedure + Excursi cooling System Summary let Required:	Is, so the su s at the syst gain for the on" method. Cooling Tons	he Peak F ms of the : em level. zone is a Sens	n.wg enestration C zone sensible Room and zo t its peak. Se ible/Latent Split	e gains an one sensit	d airflows f ble gains ar ins at the s Sensible Btuh	or cooling	shown abov CFM values are based Latent Btuh	e are not are for the	hour erage Tota Btub
.oss per 100 ft.: lote: Since the system is it the room and zone leve itended to equal the total out Procedure + Excursi cooling System Summary let Required:	Is, so the su s at the syst gain for the on" method. Cooling Tons	he Peak F ms of the : em level. s zone is a Sens Heating	n.wg enestration C zone sensible Room and zo t its peak. Se ible/Latent Split 84% / 16% a System	e gains an one sensit ensible ga	d airflows f ble gains ar ins at the s Sensible Btuh	for cooling ind cooling is system level cooling for cooling statem level cooling statem cooling	shown abov CFM values I are based Latent Btuh 3,604	ve are not are for the on the "Av	hour erage Tota Btub
oes per 100 ft.: lote: Since the system is it the room and zone leve itended to equal the total which the glass senable ond Procedure + Excural booling System Summary let Required: [quipment Data ype:	Is, so the su s at the syst gain for the on" method. Cooling Tons	he Peak F ms of the : em level. s zone is a Sens Heating	n.wg enestration C zone sensible Room and zo t its peak. Se ible/Latent Split 84% / 16%	e gains an one sensit ensible ga	d airflows f ble gains ar ins at the s Sensible Btuh	for cooling ind cooling is system level cooling for cooling statem level cooling statem cooling	Latent 3,604	ve are not are for the on the "Av	hour
oes per 100 ft.: lote: Since the system is it the room and zone leve itended to equal the total n which the glass sensible ord Procedure + Excursi cooling System Summary let Required: support Data ype: hodel:	Is, so the su s at the syst gain for the on" method. Cooling Tons	he Peak F ms of the : em level. s zone is a Sens Heating	n.wg enestration C zone sensible Room and zo t its peak. Se ible/Latent Split 84% / 16% a System	e gains an one sensit ensible ga	d airflows f ble gains ar ins at the s Sensible Btuh	for cooling ind cooling is system level cooling for cooling statem level cooling statem cooling	shown abov CFM values I are based Latent Btuh 3,604	ve are not are for the on the "Av	hour erage Total Btub
oes per 100 ft.: lote: Since the system is it the room and zone leve itended to equal the total n which the glass sensible ond Procedure + Excursi cooling System Summary let Required: iquipment Data ype: hodel: hodoel Model:	Is, so the su s at the syst gain for the on" method. Cooling Tons	he Peak F ms of the : em level. s zone is a Sens Heating	n.wg enestration C zone sensible Room and zo t its peak. Se ible/Latent Split 84% / 16% a System	e gains an one sensit ensible ga	d airflows f ble gains ar ins at the s Sensible Btuh	for cooling ind cooling is system level cooling for cooling statem level cooling statem cooling	shown abov CFM values I are based Latent Btuh 3,604	ve are not are for the on the "Av	hour erage Total Btub
oes per 100 ft.: lote: Since the system is it the room and zone leve itended to equal the total n which the glass sensible ord Procedure + Excursi cooling System Summary let Required: iquipment Data ype: hodel: hodel: brand:	Is, so the su s at the syst gain for the on" method. Cooling Tons	he Peak F mis of the 2 zone is a Sens Heating Natura	n.wg enestration C zone sensible Room and zo t its peak. Se ible/Latent Split 84% / 16% a System	e gains an one sensit ensible ga	d airflows f ble gains ar ins at the s Sensible Btuh	or cooling of cooling of ystem level cooling of the cooling of th	shown abov CFM values I are based Latent Btuh 3,604	ve are not are for the on the "Av	hour erage Total Btub
oes per 100 ft.: lote: Since the system is it the room and zone leve itended to equal the total n which the glass sensible ond Procedure + Excursi cooling System Summary let Required: Guipment Data Ypa: Ypa: Ypa: backing door Model: brand: bascription:	Is, so the su s at the syst gain for the on" method. Cooling Tons	he Peak F ms of the 2 zone is a Sens Heating Natura	n.wg enestration C zone sensible Room and ze it its peak. Se ible/Latent Split 84% / 16% a <u>System</u> G as Furnac	e gains an one sensit ensible ga	d airflows f ble gains ar ins at the s Sensible Btuh	or cooling nd cooling ty ystem leve <u>Cooling S</u> Standard	shown abov CFM values I are based Latent Btuh 3,604	ve are not are for the on the "Av	hour erage Total Btub
oes per 100 ft.: lote: Since the system is it the room and zone leve itended to equal the total out brocelure & Excural cooling System Summary let Required: (guipment Data ype: hodel: hodel: hodor Model: Description: finciency:	Is, so the su s at the syst gain for the on" method. Cooling Tons	he Peak F mis of the 2 zone is a Sens Heating Natura	n.wg enestration C zone sensible Room and ze it its peak. Se ible/Latent Split 84% / 16% a <u>System</u> G as Furnac	e gains an one sensit ensible ga	d airflows f ble gains ar ins at the s Sensible Btuh	or cooling of cooling of ystem level cooling of the cooling of th	shown abov CFM values I are based Latent Btuh 3,604	ve are not are for the on the "Av	hour erage Total Btub
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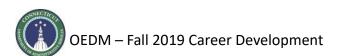
Project Unit	t #* OEDM Heights					
Energy Code: Location: Construction Type: Project Type: Orientation: Conditioned Floor Area Olazing Area Climate Zone: Permit Date: Permit Date:	2015 IECC Mittel Single-family New Construction Bldg, faces 0 deg, from North 4,743 ft2 7% 5 (5792 HDD)					
Construction Site:	Owner/Agent:	William PLTP G 450 Col	James, BO roup, Inc. umbus Blvd.	ctor:		
Compliance: Passes (Compliance: 3.4% Bette Trade Nov postar Trade Trade Nov postar Trade Envelope Ass	er Than Code Maximum UA: 469 Your U/ Code index reflects how close to compliance the house is based or ate of energy use or cost relative to a minimum-code home.	(860)71 OEDM	d, Ct. 06062 3-5522 gct.gov			
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Compliance: 3.0% Better Troblems program Transform Floor 1: All-Wood joint; Celling 2: Raised or Er Celling 2: Raised or Er Orientation: Front Wondow 1: Viny(Fiber Dar 1: Solid Orientation: Front Wall 2: Wood Frenz, 2 Window 2: Viny(Fiber Dar 2: Solid Orientation: Front Wall 2: Wood Frenz, 2 Window 2: Viny(Fiber Orientation: Each Orientation: Each	r Than Code Haximum U.K. 469 Your U. Solar data officiency to be considered to a information of the based of table of the solar to be complete the based of table of the solar to be complete the based of Assembly Ifruss:Over Outside Air errory Truss 14" o.c. glass Frame:Double Pane with Low-E 14" o.c. glass Frame:Double Pane with Low-E 14" o.c.	(1807)71 OEDM nede trade-off rules. Gross Area 90 70 1,826 89 843 36 61 843 314	Cavity R-Valor 25.0 38.0 25.0 38.0 15.0	R-Value 0.0 24.0 2.5 0.0	0.026 0.020 0.024 0.059 0.270 0.170 0.059 0.270	1 3 4 1 1 4 3

IRC Plan Plumbing, HV		don			
Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
Wall 4: Wood Frame, 24" o .c. Orientation: Right side	727	19.0	0.0	0.059	38
Window 4: Vinyl/Fiberglass Frame:Double Pane with Low-E Orientation: Right side	78			0.270	21
Wall 5: Solid Concrete or Masonry:Interior Insulation Orientation: Front	455	0.0	10.0	0.077	35
Wall 6: Solid Concrete or Masonry:Interior Insulation Orientation: Back	455	0.0	10.0	0.077	35
Wall 7: Solid Concrete or Masonry:Interior Insulation Orientation: Left side	495	0.0	10.0	0.077	38
Wall B: Solid Concrete or Masonry:Interior Insulation Orientation: Right side	495	0.0	10.0	0.077	38
Compliance Statement: The proposed building design described here calculations submitted with the permit application. The proposed build REScheck Version 4.6.5 and to comply with the mandatory requirement	and has been designed	to meet the	E ZOTO ILCO	requirente	other nts in
Name - Title Signatur			Date		



		-	lan Revi HVAC, I	-	
Text in th	REScheck Softw Inspection Energy Code: 2015 hents: 0.0% were addressed c e"Comments/Assumptions" colu ent, the user certifies that a code laimed. Where compliance is ite	IECC	RES <i>check</i> soft	ware he REScheck Requir low that is documer	nted, or that an exception
Section #	Pre-Inspection/Plan Review	Plans Verified	field Verified	Complies?	Comments/Assumptions
& Req.ID 103.1, 103.2 [PR1] ³	Construction drawings and documentation demonstrate energy code compliance for the building envelope. Thermal envelope for the documents			Complies Does Not Not Observable Not Applicable	
103.1, 103.2, 403.7 [PR3] ¹	Construction drawings and documentation demonstrate energy code compliance for lighting and mechanicia systems. dwelling units must demonstrate compliance with the IECC Commercial Provisions.			Complies Does Not Not Observable Not Applicable	
302.1, 403.7 [PR2] ²	Heating and cooling equipment is sized per ACCA Manual S based on loads calculated per ACCA Manual J or other methods approved by the code official.	Heating: Btu/hr Cooling: Btu/hr	Heating: Btu/hr Cooling: Btu/hr	Complies Does Not Not Observable Not Applicable	
	al Comments/Assumptions:				
Section # & Req.ID	Foundation Inspection	Compli	es?	Comments/As	ssumptions
303.2.1 FO11] ²	A protective covering is installed to protect exposed exterior insulation and extends a minimum of 6 in. bel grade.	Complies Does Not Not Obse Not Appli	rvable		
403.9 FO12] ²	Snow- and ice-melting system contrinstalled.	ols Complies Does Not Not Obse	rvable		

Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1. 402.3.4 [FR1] ¹	Door U-factor.	u	U	Complies Does Not Not Observable Not Applicable	See the Envelope Assemblies table for values.
402.1.1, 402.3.1, 402.3.3, 402.5 [FR2] ¹	Glazing U-factor (area-weighted average).	U	U	Complies Does Not Not Observable Not Applicable	See the Envelope Assemblies table for values.
303.1.3 [FR4] ¹	U-factors of fenestration products are determined in accordance with the NFRC test procedure or taken from the default table.			Complies Does Not Not Observable Not Applicable	
402.4.1.1 [FR23] ¹	Air barrier and thermal barrier installed per manufacturer's instructions.			Complies Does Not Not Observable Not Applicable	
402.4.3 [FR20] ¹	Fenestration that is not site built is listed and labeled as meeting AAMA /WDMA/CSA 101/I.S.2/A440 or has infiltration rates per NFRC 400 that do not exceed code limits.			Complies Does Not Not Observable Not Applicable	
402.4.5 [FR16] ²	IC-rated recessed lighting fixtures sealed at housing/interior finish and labeled to indicate ≤2.0 cfm leakage at 75 Pa.			Complies Does Not Not Observable	
403.3.1 [FR12] ¹	Supply and return ducts in attics insulated $>= R.8$ where duct is R-6 where <3 inches in diameter and $>=R-6$ where <3 inches. Supply and return ducts in other portions of the building insulated $>= R-6$ for diameter $>= 3$ inches and R-4.2 for <3 inches in diameter.			Complies Does Not Not Observable Not Applicable	
403.3.5 [FR15] ³	Building cavities are not used as ducts or plenums.			Complies Does Not Not Observable Not Applicable	
403.4 [FR17] ²	HVAC piping conveying fluids above 105 °F or chilled fluids below 55 °F are insulated to \ge R-3.	R	R	Complies Does Not Not Observable Not Applicable	
403.4.1 [FR24] ¹	Protection of insulation on HVAC piping.			Complies Does Not Not Observable Not Applicable	
403.5.3 [FR18] ²	Hot water pipes are insulated to ≥R-3.	R	R	Complies Does Not Not Observable Not Applicable	
403.6 [FR19] ²	Automatic or gravity dampers are installed on all outdoor air intakes and exhausts.			Complies Does Not Not Observable Not Applicable	
	1 High Impact (Tier 1	L) 2 Medium	Impact (Tier 2)	3 Low Impact (T	ier 3)
	le: Unit #* OEDM Heights				Report date: 01/10/1
	ame: C:\PLTP Group, Inc\HVAC, H	Heat Loss, ResCh	eck\ResCheck\PI	TP Group, Inc\OEI	

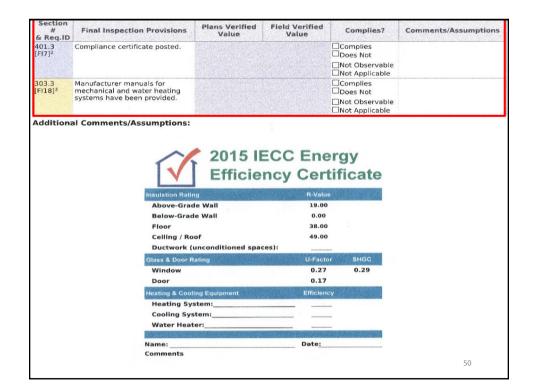


IRC Plan Review Plumbing, HVAC, Radon								
Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions				
All installed insulation is labeled or the installed R-values provided.			Complies Does Not Not Observable Not Applicable					
Floor insulation R-value.	R Wood Steel	R Wood Steel	Complies Does Not Not Observable Not Applicable	See the Envelope Assemblies table for values.				
Floor insulation installed per manufacturer's instructions and in substantial contact with the underside of the subfloor, or floor framing cavity insulation is in contact with the top side of sheathing, or continuous e insues of solid solid on the substantiant of the solid solid solid solid solid solid solid extends from the bottom to the top of all perimeter floor framing members.			Complies Does Not Not Observable Not Applicable					
Wall insulation R-value. If this is a mass wall with at least ½ of the wall insulation on the wall exterior, the exterior insulation requirement applies (FR10).	R Wood Mass Steel	R Wood Mass Steel	Complies Does Not Not Observable Not Applicable	See the Envelope Assemblies table for values.				
Wall insulation is installed per manufacturer's instructions.			Complies Does Not Not Observable Not Applicable					
I I Fritter Letricer	Plum Insulation Inspection All installed insulation is labeled or the installed R-values provided. Floor insulation Installed per floor insulation R-value. Floor insulation Installed per framing cavity insulation is in substantial contact with the underside of the subfloor, or floor framing cavity insulation is in substantial contact with the in substantial contact with the in substantial contact with the insubstantial contact with the substantial contact with the substantial contact with the sub- read of the subfloor of framing and extends from the bottom to the cop of all perimeter floor framing and members. Wall insulation R-value. If this is a mass wall with at least ½ of the wall insulation on the wall exterior, the exterior insulation extender, the exterior insulation extender, the exterior insulation exterior, the exterior insulation exterior, the exterior insulation exterior, the exterior insulation exterior, the installed per	Insulation Inspection Plans Vertified Value All installed insulation is labeled or the installed R-values provided. Plans Vertified Floor insulation R-value. R-	Insulation Inspection Plans Verified Value Field Verified Value All installed insulation is labeled or the installed R-values provided. Plans Verified Value Field Verified Value Floor insulation R-value. R- Mood B Floor insulation Installed per insubstantial contact with the underside of the subfloor, or floor framing cavity insulation is in substantial contact with the top side of sheathing, or continuous members. R- Mood Steel Wood sheathing, or continuous members. R- B Mood Steel Wall insulation R-value. If this is a mass wall with at least k of the system on on the wall extendor, the exterior insulation Steel B- Mood Mass Steel	Insulation Inspection Plans Verified Value Field Verified Value Complies? All Installed insulation is labeled or the installed R-values provided. Plans Verified Value Complies Floor insulation R-value. B Complies Does Not Does Not Does Not Does Not Floor insulation Installed per manufacture's instructions and in substantial contact with the underside of the subfloor, or floor contact with the top side of sheating, or continuous members. R- R- Wall insulation R-value. If this is a mass well with at least to of steel R- R- Complies Does Not Does Not				

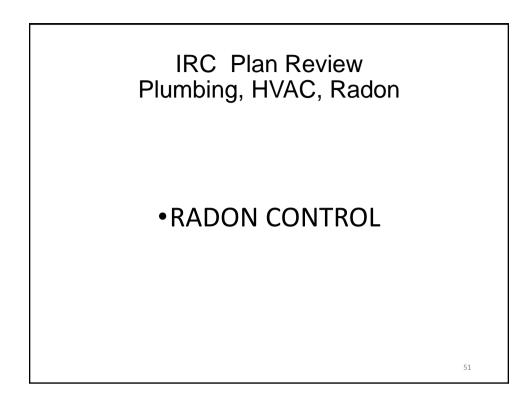
Section # & Req.ID	Final Inspection Provisions	Plans Varified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1, 402.2.1, 402.2.2, 402.2.6 [FI1] ¹	Celling insulation R-value.	R Wood Steel	R Wood Steel	Compiles Does Not Not Observable Not Applicable	See the Envelope Assemblies table for values.
303.1.1.1, 303.2 [FI2] ¹	Ceiling insulation installed per manufacturer's instructions. Blown insulation marked every 300 ft².			Complies Does Not Not Observable Not Applicable	
402.2.3 [F122] ²	Vented attics with air permeable insulation include baffie adjacent to soffit and eave vents that extends over insulation.			Complies Does Not Not Observable Not Applicable	
402.2.4 [F13] ¹	Attic access hatch and door insulation ≥R-value of the adjacent assembly.	R	R	Complies Does Not Not Observable Not Applicable	
402.4.1.2 [FI17] ¹	Blower door test @ 50 Pa. <=5 ach in Climate Zones 1-2, and <=3 ach in Climate Zones 3-8.	ACH 50	ACH 50	Complies Does Not Not Observable Not Applicable	
403.3.4 [FI4] ¹	Duct tightness test result of $<=4$ cfm/100 ft2 across the system or <=3 cfm/100 ft2 without air handler @ 25 Pa. For rough-in tests, verification may need to occur during Framing inspection.	767 cfm/100	īt² cfm/100	Complies Does Not Not Observable Not Applicable	
403.3.3 [F127] ¹	Ducts are pressure tested to determine air leakage with either: Rough in test; Tota pressure differential of 0.1 inch w.g. across the system including enclosure i installed at time of test. Postconstruction test; Total pressure differential of 0.1 inch w.g. across the entire system including the manufacturer's air	rf2 cfm/100	12 cfm/100	Comples Does Not Not Observable Not Applicable	
403.3.2.1 [FI24] ¹	Air handler leakage designated by manufacturer at $<=2\%$ of design air flow.			Complies Does Not Not Observable Not Applicable	
403.1.1 [FI9] ²	Programmable thermostats installed for control of primary heating and cooling systems and initially set by manufacturer to code specifications.			Complies Does Not Not Observable Not Applicable	
403.1.2 [Fil0] ²	Heat pump thermostat installed on heat pumps.			Complies Does Not Not Observable Not Applicable	
403.5.1 [FI11] ²	Circulating service hot water systems have automatic or accessible manual controls.			Complies Does Not Not Observable Not Applicable	
	1 High Impact (Tier	1) 2 Medium	Impact (Tier 2)	3 Low Impact (T	er 3)

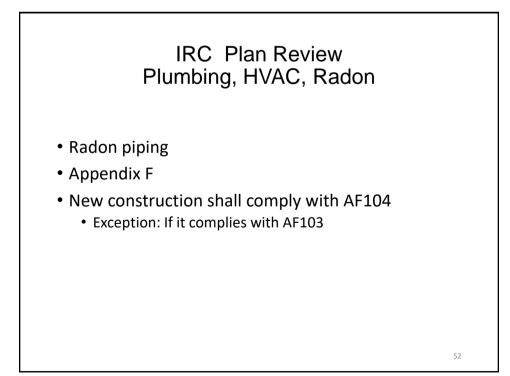


Section #	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.6.1 [FI25] ²	All mechanical ventilation system fans not part of tested and listed HVAC equipment meet efficacy and air flow limits.			Complies Does Not Not Observable Not Applicable	
403.2 [FI26] ²	Hot water boilers supplying heat through one- or two-pipe heating systems have outdoor setback control to lower boiler water temperature based on outdoor temperature.			Complies Does Not Not Observable Not Applicable	
403,5,1,1 [Fi28] ²	Heated water circulation systems have a circulation pump. The end of the system of the system return pipe or a cold water supply pine. Gravity and thermos- net present. Controls for circulating hot water system for hot water system for hot water demand within the occupancy. Controls when water is in circulation loop is at set-point temperature and when water is in circulation loop is at set-point temperature and set as the set of the set of the set of of the set of the set of the set			Complies Does Not Not Observable Not Applicable	
403.5.1.2 (Fi29)?	Electric heat trace systems comply with IEEE 515.1 or UL 515. Controls automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping.			Complies Does Not Not Observable Not Applicable	5
403.5.2 [FI30] ²	Water distribution systems that have recrudiation pumps that supply pipe back to the heated water source through a sold demand recirculation water system, pumps have control pump and limit the temperature water maining to 1044 ⁴ .			Complies Does Not Not Observable Not Applicable	
403.5.4 [FI31] ²	Drain water heat recovery units tested in accordance with CSA best of the accordance with CSA pressure loss of drain water heat recovery units < 3 pai for individual units connected to en- side pressure loss of drain water heat recovery units < 2 pai for heat recovery units < 2 pai for heat recovery units < 2 pai for heat or more showers.			Complies Does Not Not Observable Not Applicable	
404.1 [FI6] ¹	75% of lamps in permanent fixtures or 75% of permanent flxtures have high efficacy lamps. Does not apply to low-voltage lighting.			Complies Does Not Not Observable Not Applicable	
404,1. [F123] ³ ?	Fuel gas lighting systems have no continuous pllot light.			Complies Does Not Not Observable Not Applicable	
	1 High Impact (Tier	1) 2 Medium	impact (Tier 2)	3 Low Impact (Tie	er 3)









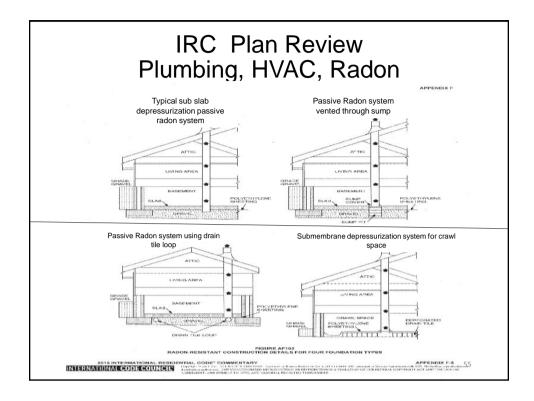


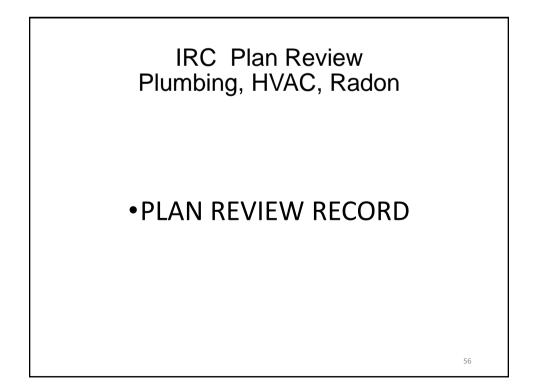
IRC Plan Review Plumbing, HVAC, Radon

- AF 104 requirements
- 6-mil soil gas retarder (plastic)
- 3" Tee fitting (under plastic)
- Gravel between ¼" and 2" (around the fitting, under the plastic)
- Filter fabric (around the gravel, which is around the fitting, which is under the gravel)
- In a hole, min. 8" deep by 24" in diameter
- All of the above attached to a 3" pipe, (which)
- · Runs up through conditioned space
- Terminates min. 12" above roof
- 10' from any window or opening
- · Not less than 2' below



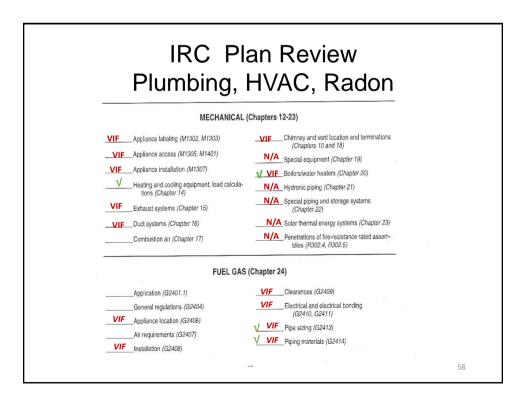




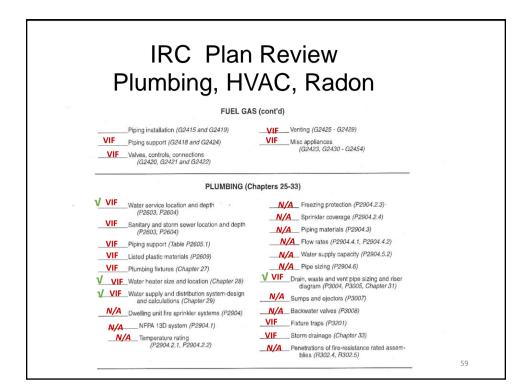


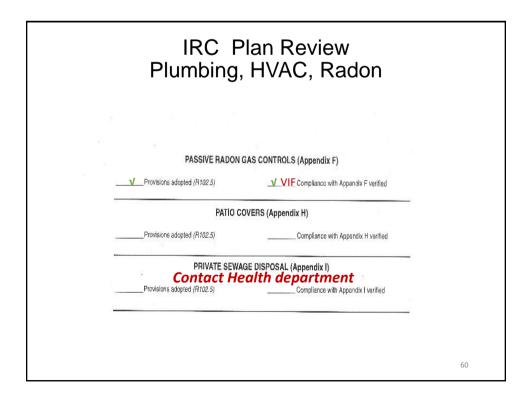


	IRC Plan Re Plumbing, HVAC		on
BUILDI	2015 INTERNATIONAL RESIDENTIAL CODE® FOR ONE- AND TWO-FAMILY DWELLINGS PLAN REVIEW RECORD DICTION: (CRy, County, Township, etc.) NG LOCATION: (Street address) NG DESCRIPTION:	Plan Review # Date: Valuation: Fee:	
Numerals in this record the emount reference	volutated in parenthreain are applicable code sectors of the 2015 International Residuent of a limited on those code accions specializing international records references and type of detailed information which is typically found on construction documents is or all order provisions which may be accidable to section build be the topical to the topic of the section of the sec-	es commonly applicable code a or one- and two-family dwelling eligned to be used only by tho	sections with due regard for ga and townhouses. It does
Numerals in this record the emount reference	idicated in parenthesis are applicable code sections of the 2015 International Residenti if is limited to those code sections specifically identified herein. This recored reference	es commonly applicable code a or one- and two-family dwelling eligned to be used only by tho	sections with due regard for ga and townhouses. It does see who are knowledgeable
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Numerals in in this reco the emount not referen and capabl	CORRECTIONS LIST	es commonly applicable code a or one- and two-family dwelling eligned to be used only by tho	sections with due regard for gs and townhouses. It does see who are knowledgesble Code

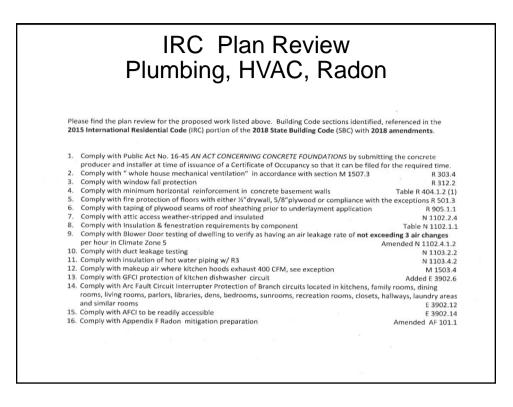


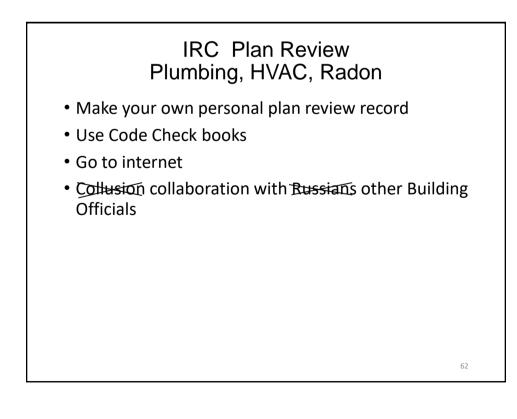














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PART TWO



- At the conclusion of this plan review section, participants should be able to:
- 1. Inspect installed furnace and Air Conditioning system for compliance of sizing, efficiencies, venting, combustion air, controls, manufacturer's installation requirements
- 2. Witness testing and installation of gas piping system
- 3. Witness potable water system testing and inspect installation
- 4. Witness testing of DWV system and verify installation matches drawing
- 5. Verify Radon system compliance with Appendix F



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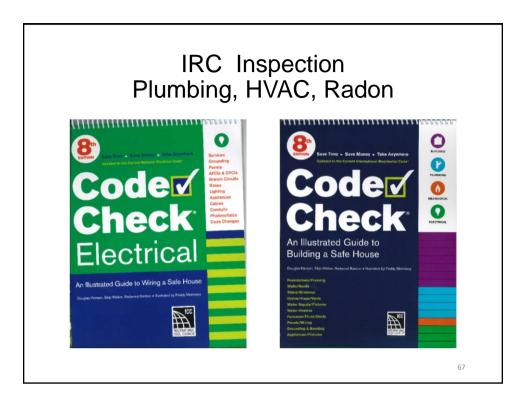
IRC Plan Review Plumbing, HVAC, Radon

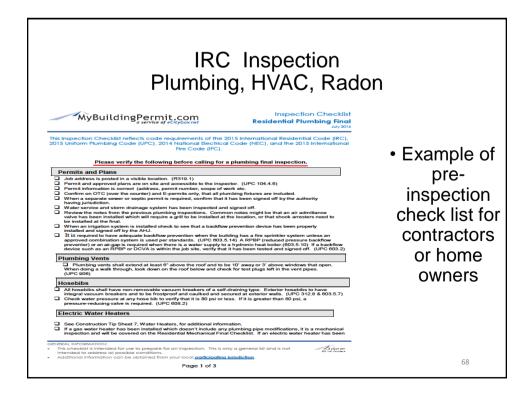
PLUMBING INSPECTION

IRC Inspection Plumbing, HVAC, Radon

- ICC Plan review sheet as checklist
- Your personal checklist
- REScheck checklist for mechanical
- Use pre-inspection check lists for contractors
- Whatever way works for you, and
 - Covers what you need to look at
 - Provides permanent record of inspection
 - Can be used to inform permit holder of any discrepancies





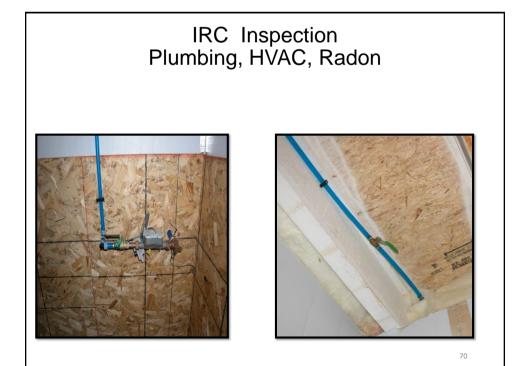




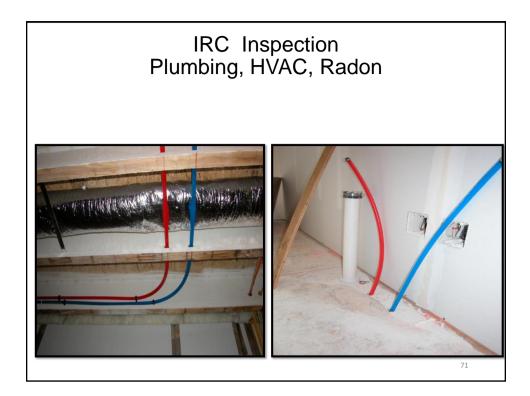
IRC Inspection Plumbing, HVAC, Radon

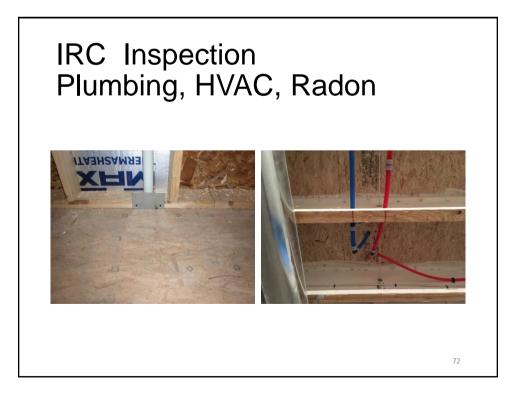
- Rough Plumbing Inspection
 - Water main entering building and test
 - Testing building sewer
 - Testing of water and DWV systems
 - Proper sizes of DWV mains, branches and vents
 - Pipe size
 - Valves
 - Hangers
 - Proper fittings
 - Location of cleanouts
 - Shower liner test
 - Pipe insulation









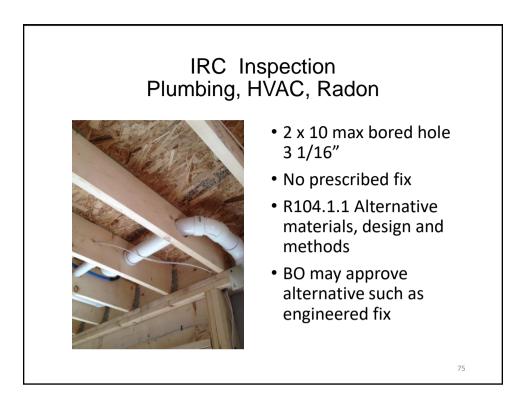








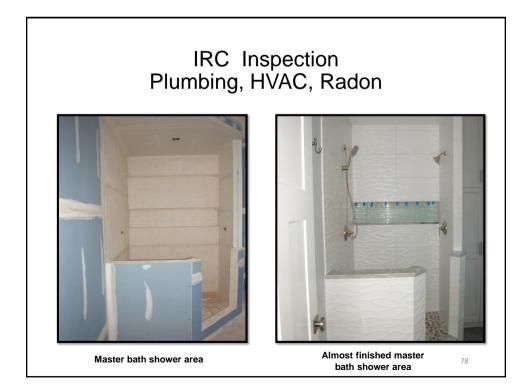










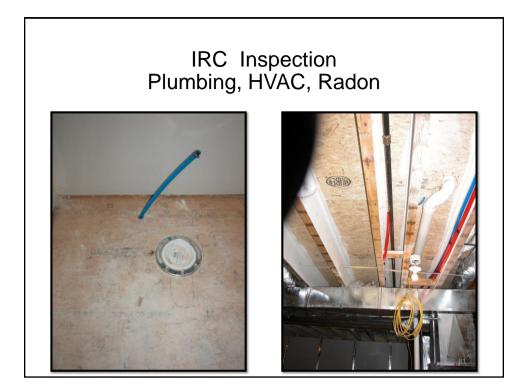


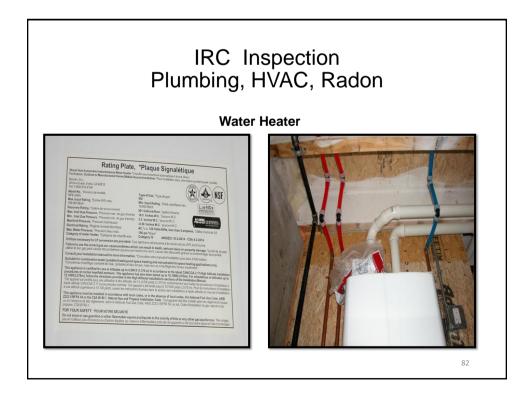




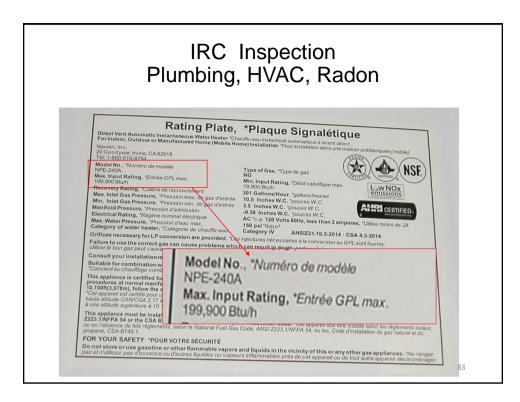


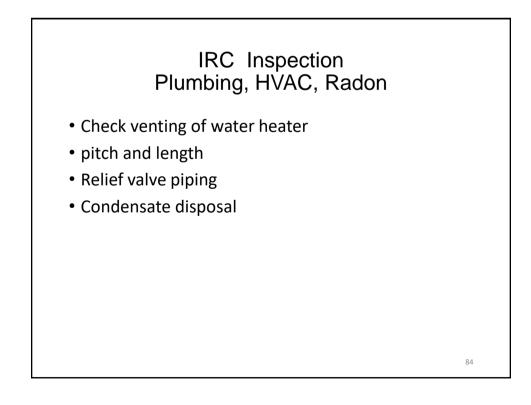




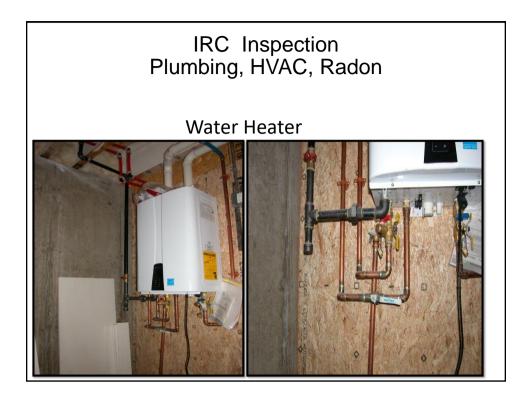


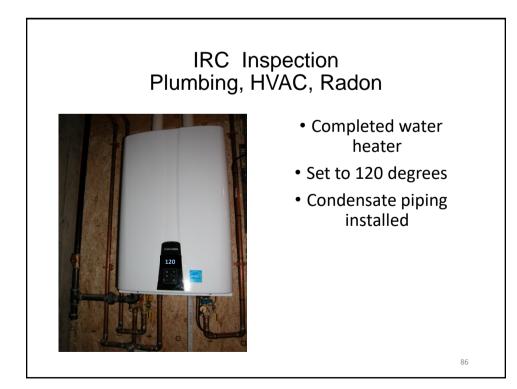




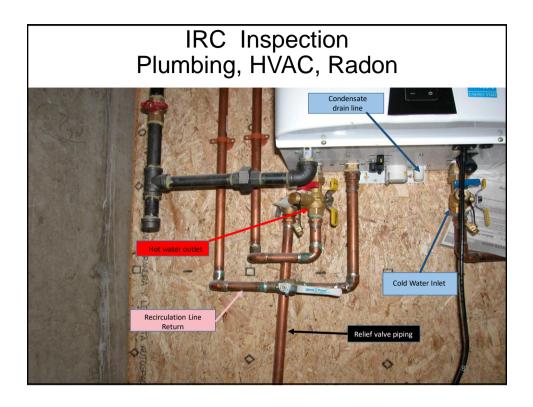


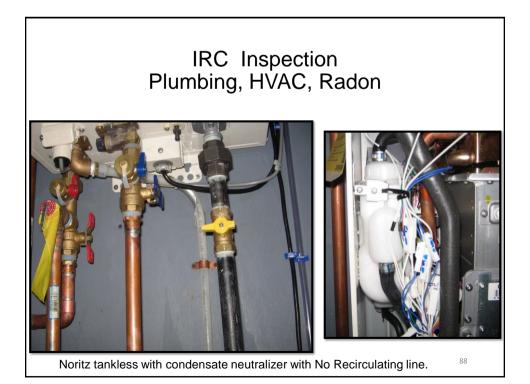
OEDM – Fall 2019 Career Development



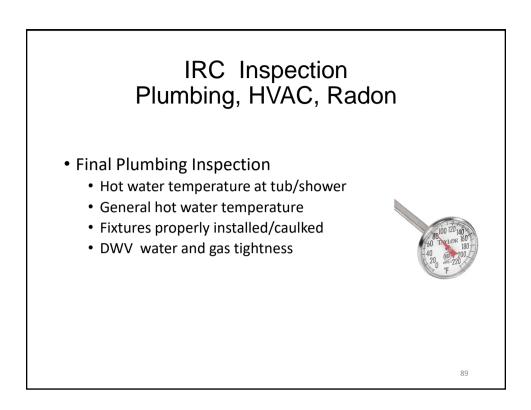


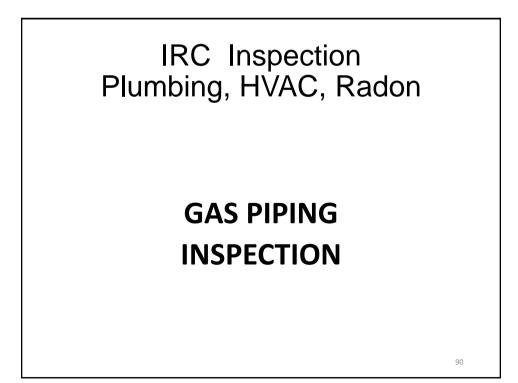




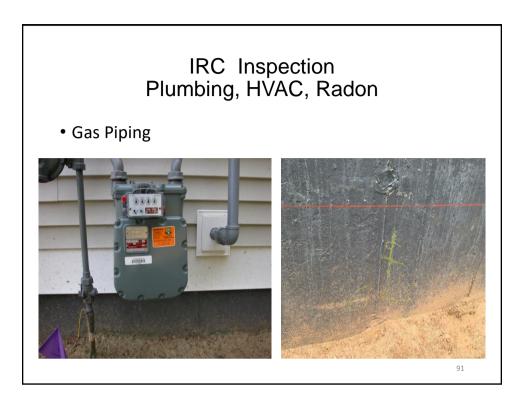


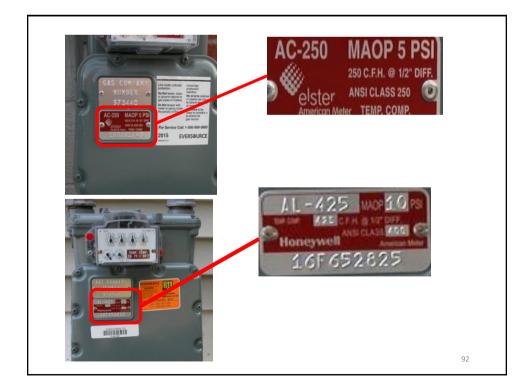






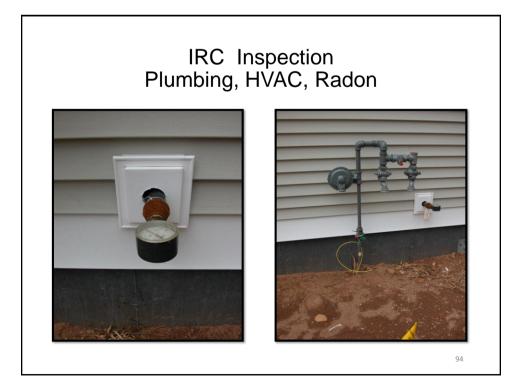










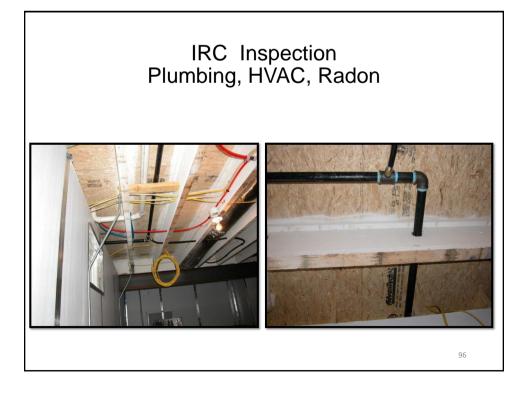




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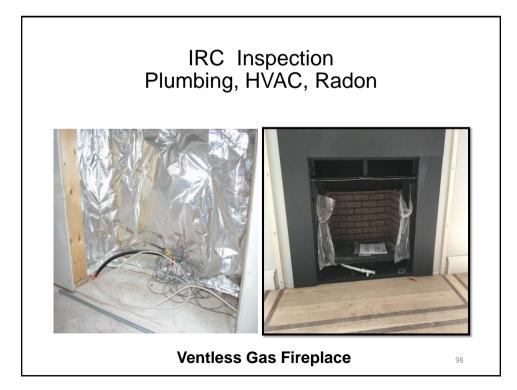
IRC Inspection Plumbing, HVAC, Radon

- Witness air test G2417.4.1
- Verify all openings capped or plugged
- Verify pipe sizes and appliance connections G2413
- Verify water heater make and model
- Verify metal hangers
- Protection of CSST
- Check venting if completed
- Is additional CSST bonding required G2411



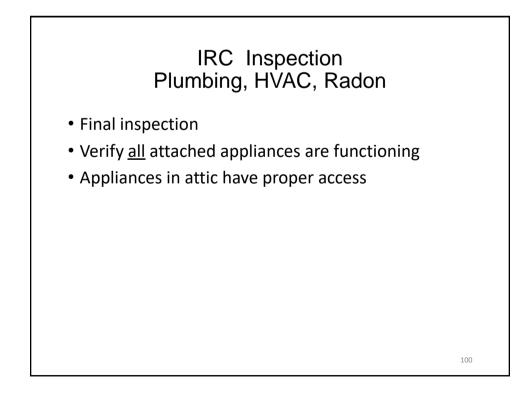






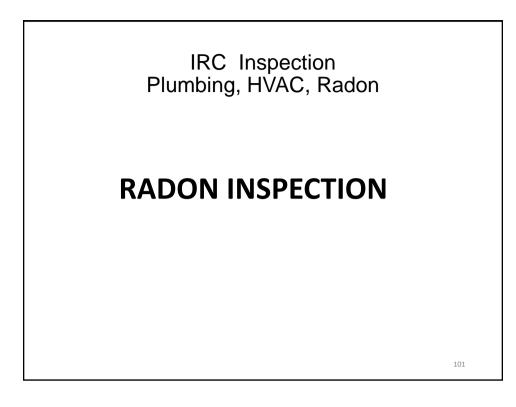


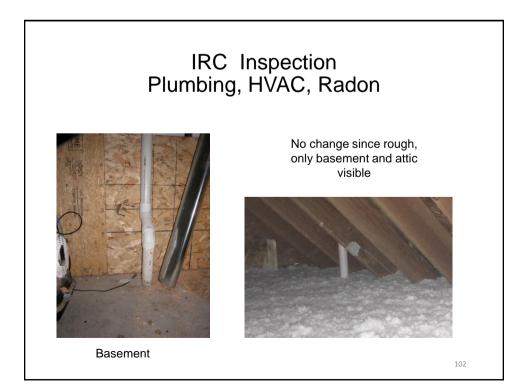






OEDM – Fall 2019 Career Development



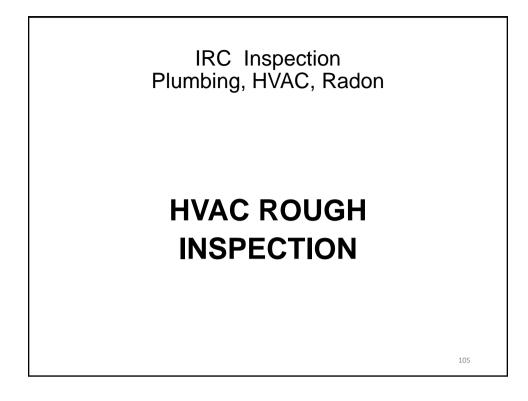


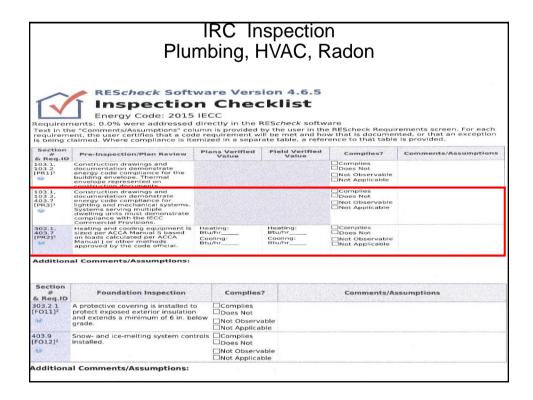




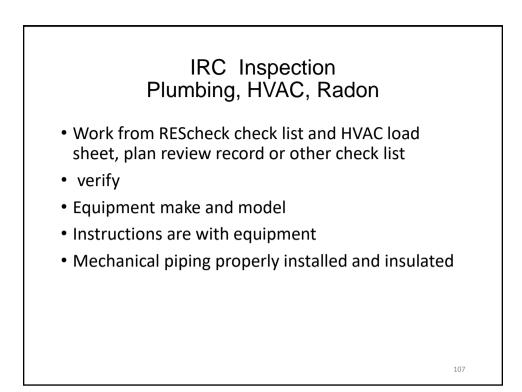








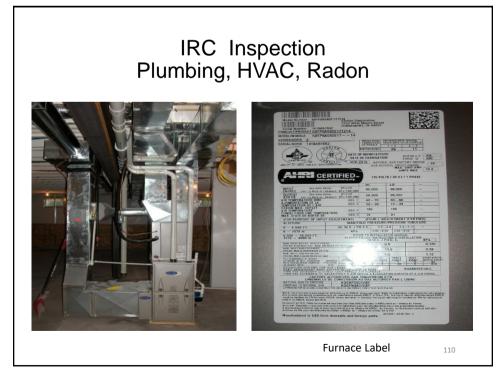




thvac - Residential & I FOR EDUC	Light Commer		IS A				are Development, hit #66 Page 1
Project Report	t						
Beneral Project Info	mation	Sector Contractor	in the second second second	and a second of the	and the local states of	States and the second second	More the back of the state
Project Title:	U	nit #66					
Designed By:		isty Nall					
Project Date:		2-16-18					
Company Name:		BC Builders LL	C				
Company Represent		sty Nall					
Company Address:		3 Main St.					
Company City:		y Town CT					
Company Phone:	55	5-733-6673					
Company Fax: Company E-Mail Ade	draces						
Company E-Mail Add	liess.						
company website.							
Design Data	and a state of the second	Second Second	Station and a logical	all the strength	Statutes, Village	a share water a start water water	
Reference City:				d, Connecticu			
Building Orientation:				oor faces Nor	th		
Daily Temperature R	tange:		Medium				
atitude:			41 Degree	S			
Elevation:			19 ft.				
Altitude Factor:		0.	999				
	Outdoor	Outdoor	Outdoor	Indoor	Indoor	Grains	
	Dry Bulb	Wet Bulb	Rel.Hum	Rel.Hum	Dry Bulb	Difference	
Vinter:	7	6.1	n/a	n/a	70	n/a	
Summer:	88	73	49%	50%	70	44	
						and the subscription of the second	
Check Figures	Contraction of the state			OF LL P	Per Square f		0.196
otal Building Supply	CFM:		871 4,446		e ft. Per Ton		2.345
Square π. of Room A /olume (ft³):	Area:	0	4,446	Squan	e n. Per Ion		2,345
		(1997) MANAGAMAN MANAGAMAN	21,323				
Building Loads	ed Including	Ventilation A	r: 36	989 Btuh	36,989	MBH	
fotal Sensible Gain:		Ventilation A		143 Btuh	84		
Total Latent Gain:				604 Btuh	16		
Total Cooling Requir	ed Including	Ventilation Ai		747 Btuh		Tons (Based On S	Sensible + Latent)
otar ocomig requi	ou moluumg	ventuation / a		, i i i i i i i i i i i i i i i i i i i	1100.0		
N(0)(0)500000000000000000000000000000000							
Rhvac is an ACCA a	pproved Ma	nual J and Ma	nual D comp	uter program			AND MODIFIC CLOCK DUCK DUCK
Calculations are per	formed per A	CCA Manual	J 8th Edition	Version 2. a	nd ACCA M	anual D.	
All computed results	are estimate	es as building	use and wea	ther may van	y.		
Be sure to select a u	nit that meet	s both sensib	e and latent	loads accord	ing to the ma	anufacturer's perfor	mance data at
our design condition					<u>-</u>		



Area Cuan 20 289.5 40 40 40 2813.7 1696 797.9	Sen Loss 353 4,922 731 756 428 12,056 4,593 2,265	Lat Gain 0 0 0 0 0 0 0 0 0 0	Sen Gain 201 5,961 1,339 348 198 4,901 0	Total Gain 201 5,961 1,339 348 198 4,901
20 289.5 40 40 40 2813.7 1696	353 4,922 731 756 428 12,056 4,593	0 0 0 0 0 0 0	201 5,961 1,339 348 198 4,901	201 5,961 1,339 348 198
40 40 40 813.7 1696	731 756 428 12,056 4,593		1,339 348 198 4,901	1,339 348 198
40 40 813.7 1696	756 428 12,056 4,593	0000	348 198 4,901	348 198
40 813.7 1696	428 12,056 4,593	000	198 4,901	198
813.7 1696	12,056 4,593	0	4,901	
1696	4,593	0		4 901
			0	
797.9	2,265	0		0
		0	2,513	2,513
186.4	235	0	93	93
33.8	55	0	11	11
1914	2,653	0	0	0
8	29,047	1,840	15,565 2,400	15,565 4,240 0
0		0		0
0	0	0		ő
				2.942
	0	0		2,012
	36,989	3,604	19,143	22,747
			and the second second	170705070070350
CFM Per	Square ft.	-		0.196
Square ft.	Per Ton:			2,345
Btub	36 989	MBH		
Btuh			n Sensible	+ Latent)
	1914 8 0 CFM Per Square ft Bluh Bluh Bluh Bluh Bluh Drogram. sion 2, and may vary.	1914 2,653 29,047 8 0 0 7,942 0 36,989 CFM Per Square ft. Square ft. Per Ton: Btuh 36,989 Btuh 84 Btuh 16 Btuh 16 Btuh 1.90 program. aion 2, and ACCA Ma may vary.	1914 2,653 0 29,047 0 0 0 0 0 0 0 0 7,942 1,764 0 0 0 36,989 3,604	1914 2,653 0 0 1914 2,653 0 0 29,047 0 15,665 8 1,840 2,400 0 0 0 0 0 0 0 0 0 7,942 1,764 1,178 36,989 3,604 19,143 CFM Per Square ft.: Square ft. Per Ton: Btuh 36,989 MBH Btuh 84 % Btuh 1,90 Tons (Based On Sensible program. aion 2, and ACCA Manual D.

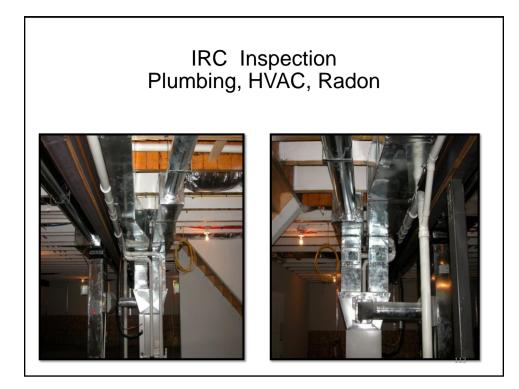






Rhvac - Residential & Light Co For Educational Use Only	ommercial HV	AC Loads				all bears	lite Software Unit #	Developme 66 Page 3	nt, Inc.
System 1 Room Lo	ad Sum	mary							
NAMES OF A DESCRIPTION OF A	NAME OF A DESCRIPTION OF A	Htg	Min	Run	Run	Cla	Clg	Min	Act
Room	Area	Sens	Htg	Duct	Duct	Sens	Lat	Clg	Sys
No Name	SF	Btuh	CFM	Size	Vel	Btuh	Btuh	CFM	CFM
Zone 1			10.22						
1 Foyer	275	3,780	76	1-6	300	1,296	209	59	59
2 Study	138	2,274	46	1-6	240	1.036	132	47	47
3 Kitchen	249	1,367	28	1-6	462	1,996	1,014	91	91
4 Dining Room	196	1,524	31	1-6	298	1,287	80	59	59
5 Florida Room	144	3,557	72	2-6	374	3,232	176	147	147
6 Family Room	275	3,062	62	2-6	344	2,966	1,063	135	135
7 Master Bedroom	253	2,527	51	1-6	296	1,277	156	58	58
8 Master Walk In	74	442	9	1-6	50	216	29	10	10
9 Master Bath	122	1,501	30	1-6	185	799	108	36	36
10 Mud Room	155	745	15	1-6	64	278	48	13	13
11 Powder Room	28	223	5	1-6	19	82	17	4	4
Zone 1 subtotal	1,908	21,002	425			14,465	3,032	658	658
12 Bedroom 2	248	3,212	65	1-6	471	2,035	199	93	93
13 Bed 2 Walk In	36	697	14	1-6	61	265	53	12	12
14 2nd Floor Hall	34	377	8	1-6	28	123	30	6	6
15 Main Bath	72	549	11	1-6	59	255	37	12	12
16 Bedroom 3	234	3,077	62	1-6	375	1,617	209	74	74
17 Heated Basement	1,914	8,075	163	1-6	89	383	44	17	17
Zone 2 subtotal	2,538	15,987	323			4,678	572	213	213
System 1 total	4,446	36,989	748			19,143	3,604	871	871
System 1 Main Trunk Size: Velocity: _oss per 100 ft.: Note: Since the system is r at the room and zone levels ntended to equal the totals	multizone, th	ns of the zo	wg nestration (ne sensible	e gains and	d airflows t	for cooling s	shown above	e are not	
n which the glass sensible oad Procedure + Excursio Cooling System Summary	gain for the	zone is at i	ts peak. S	ensible gai	ns at the s	system leve	l are based	on the "Av	erage
	Cooling	Sensit	le/Latent Split		Sensible		Latent Btuh		Total Btuh
Net Required:	1.90	84	% / 16%	111001000000000000000000000000000000000	19,143		3,604		22,747
Equipment Data	and Allerian - colour as	Contraction of the Contract	CIT CONTRACTOR OF STATE	STIVE STORY A MAY	Sector States and sectors	A STATE OF THE STATE OF		and the second second	W. I. P. Star
Гуре:		Heating Natural (<u>System</u> 3as Furnac	e		Cooling S Standard	<u>ystem</u> Air Conditio	ner	
Viodel: ndoor Model:						0			
Vodel: ndoor Model: Brand:		0							
Model: ndoor Model: Brand: Description:									
Model: ndoor Model: Brand: Description: Efficiency:		0 0 AFUE				O SEER			
Viodel: ndoor Model: Brand: Description: Efficiency: Comment :						0 SEER			
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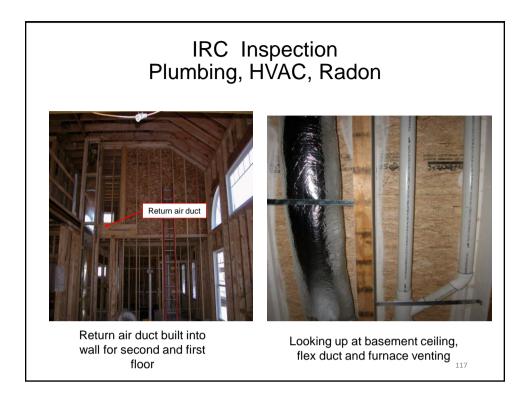






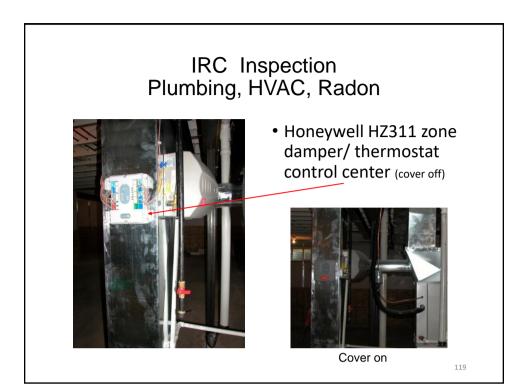


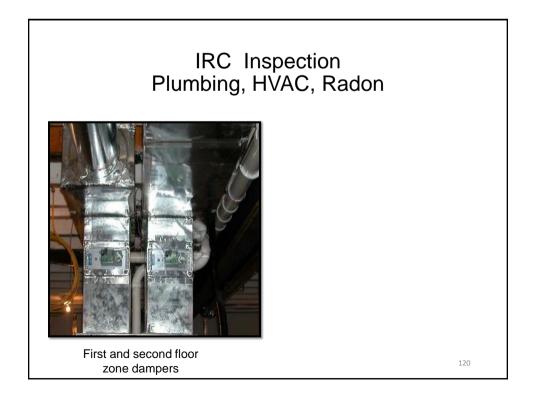
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Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1, 402.2.1, 402.2.2, 402.2.6 [FI1] ¹	Celling insulation R-value.	R Wood Steel	R Wood Steel	Complies Does Not Not Observable Not Applicable	See the Envelope Assemblies table for values.
303.1.1.1, 303.2 [FI2] ¹	Ceiling insulation installed per manufacturer's instructions. Blown insulation marked every 300 ft ² .			Complies Does Not Not Observable	
402.2.3 [F122] ²	Vented attics with air permeable insulation include baffle adjacent to soffit and eave vents that extends over insulation.			Complies Does Not Not Observable Not Applicable	
402.2.4 [F13] ¹	Attic access hatch and door insulation ≥R-value of the adjacent assembly.	R	R	Complies Does Not Not Observable Not Applicable	
402.4.1.2 [FI17] ¹	Blower door test @ 50 Pa. <=5 ach in Climate Zones 1-2, and <=3 ach in Climate Zones 3-8.	ACH 50	ACH 50	Complies Does Not Not Observable Not Applicable	
403.3.4 [FI4] ¹	Duct tightness test result of \leq =4 cm/100 ft2 across the system or \leq =3 cm/100 ft2 without air handler @ 25 Pa. For rough-in tests, verification may need to occur during Framing inspection.	ft2 cfm/100	n ² cm/100	Does Not Not Observable Not Applicable	
403,3,3 [FI27] ³	Ducts are pressure tested to determine air teakage with either: Rough-in test: Total pressure differential of 0.1 inch w.g. across the system including enclosure in installed at time of test. Postconstruction test: Total pressure differential of 0.1 inch w.g. across the entire system inandiar enclosure.	ft ² cfm/100	īt ² cfm/100	Complies Does Not Not Observable Not Applicable	
403.3.2.1 [FI24] ¹	Air handler leakage designated by manufacturer at <=2% of design air flow.			Complies Does Not Not Observable Not Applicable	
403.1.1 [FI9] ²	Programmable thermostats installed for control of primary heating and cooling systems and initially set by manufacturer to code specifications.			Complies Does Not Not Observable Not Applicable	
403.1.2 [FI10] ²	Heat pump thermostat installed on heat pumps.			Complies Does Not Not Observable Not Applicable	
403.5.1 (FI11)?	Circulating service hot water systems have automatic or accessible manual controls.			Complies Does Not Not Observable Not Applicable	
	1 High Impact (Tier		Impact (Tier 2)	3 Low Impact (T	ler 3)



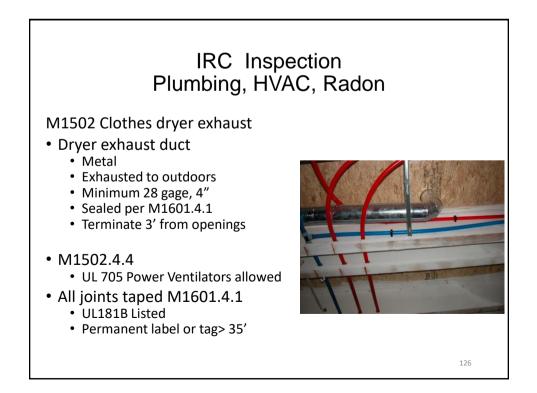
Section #	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.6.1 [FI25] ²	All mechanical ventilation system fans not part of tested and listed HVAC equipment meet efficacy and air flow limits.			Complies Does Not Not Observable Not Applicable	
403.2 [FI26] ²	Hot water boilers supplying heat through one- or two-pipe heating systems have outdoor setback control to lower boiler water temperature based on outdoor temperature.			Complies Does Not Not Observable Not Applicable	
403,5,1,1 [F 26] ⁷	Heated water circulation systems hystem rotuin pipe in a difficated return pipe or a cold water supply system rotulation systems are not present. Controls for purps start the pump with signal for hot water demand automatically turn off the pump when water is in circulation loop when water is in circulation loop no demand for hot water exists.			Complies Does Not Not Observable Not Applicable	
403.5.1.2 [FI29]?	Electric heat trace systems comply with IEEE 515.1 or UL 515. Controls automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping.			Complies Does Not Not Observable Not Applicable	n
403.5.2 [FI30] ²	Water distribution systems that have recirculation pumps that pump water from a heated water supply pipe back to the heated water supply pipe have a demand recirculation water system. Pumps have controls that manage operation of the that manage operation of the of the water entering the cold water piping to 104%.			Complies Does Not Not Observable Not Applicable	
403.5.4 [FI31] ²	Drain water heat recovery units tested in accordance with CSA BSS.1. Potable water-side recovery units < 3 pai for individual units connected to be individual units connected to side pressure loss of drain water heat recovery units < 2 pai for heat recovery units < 2 pai for heat recovery units < 2 pai for heat presserves.			Complies Does Not Not Observable	
404.1 [FI6] ¹	75% of lamps in permanent fixtures or 75% of permanent fixtures have high efficacy lamps. Does not apply to low-voltage lighting.			Complies Does Not Not Observable Not Applicable	
404.1.1 [FI23] ³ ?	Fuel gas lighting systems have no continuous pilot light.			Complies Does Not Not Observable Not Applicable	
	1 High Impact (Tier	L) 2 Medium	Impact (Tier 2)	3 Low Impact (Tie	er 3)

PIL	ımbing, HVA	NC, Rado	n
	-		
ME	TABLE N1103.6.1 (R403.6 CHANICAL VENTILATION SYSTEM		
FAN LOCATION	AIR FLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY (CFM/WATT)	AIR FLOW RATE MAXIMUN (CFM)
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	2.8 cfm/watt	Any
Bathroom, utility room	10	1.4 cfm/watt	< 90
Defense witter	90	2.8 cfm/watt	Any
Bathroom, utility room			

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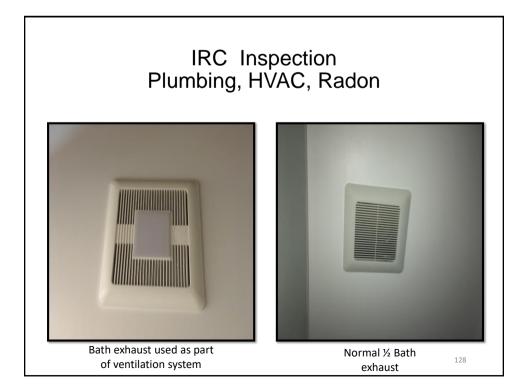
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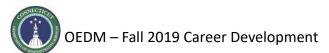
# & Reg.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
401.3 [FI7] ²	Compliance certificate posted.		C. A. A. S. C.	Complies	
[[]]]				Does Not Not Observable	
303.3 [FI18] ³	Manufacturer manuals for mechanical and water heating systems have been provided.			Complies Does Not	
	systems have been provided.			□Not Observable □Not Applicable	
	$\boxed{\checkmark}$		ECC Ene		
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	Insulation Ratin	g	R-Valu	e and the second second	
	Insulation Ratin Above-Grad	Participation and a state of the second state of the second state of the second state of the second state of the	R-Valu 19.00		
		e Wall	19.00 0.00		
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	Above-Grad Below-Grad Floor Ceiling / Rod	e Wall e Wall of	19.00 0.00 38.00 49.00		
	Above-Grad Below-Grad Floor Ceiling / Rod Ductwork (u	e Wall e Wall of unconditioned space	19.00 0.00 38.00 49.00 ces):		
	Above-Grad Below-Grad Floor Ceiling / Rod	e Wall e Wall of unconditioned space	19.00 0.00 38.00 49.00		
	Above-Grad Below-Grad Floor Ceiling / Ro Ductwork (t Glass & Door R	e Wall e Wall of unconditioned space	19.00 0.00 38.00 49.00 ces): U-Facto	or SHGC	
	Above-Grad Below-Grad Floor Ceiling / Ro Ductwork (L Glass & Door R Window	e Wall e Wall of unconditioned space ating	19.00 0.00 38.00 49.00 ces): U-Facto 0.27	or SHGC 0.29	
	Above-Grad Below-Grad Floor Celling / Roi Ductwork (Glass & Door Window Door	e Wall e Wall unconditioned space ating ng Equipment	19.00 0.00 38.00 49.00 ces): U-Facto 0.27 0.17	or SHGC 0.29	
	Above-Grad Below-Grad Floor Celling / Roi Ductwork (k Glass & Door R Window Door Heating & Cooli	e Wall e Wall of inconditioned space ating ng Equipment item:	19.00 0.00 38.00 49.00 ces): U-Facto 0.27 0.17	or SHGC 0.29	
	Above-Grad Below-Grad Floor Ceiling / Roi Ductwork (t Glass & Door R Window Door Heating & Cooli Heating Sys	e Wall e Wall anconditioned space ating ng Equipment stem: tem:	19.00 0.00 38.00 49.00 ces): U-Facto 0.27 0.17	or SHGC 0.29	
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	Above-Grad Below-Grad Floor Ceiling / Roo Ductwork (t Glass & Door R Window Door Heating & Cooli Heating & Cooling Sys	e Wall e Wall anconditioned space ating ng Equipment stem: tem:	19.00 0.00 38.00 49.00 ces): U-Facto 0.27 0.17	or SHGC 0.29	



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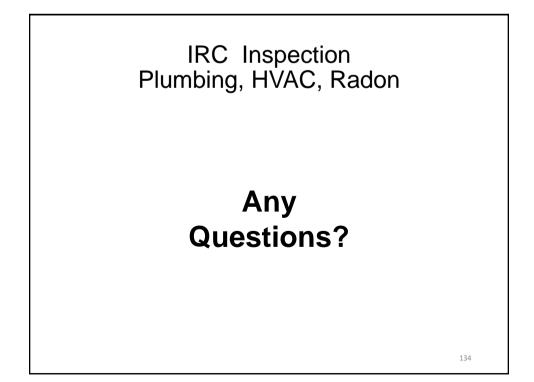
Section # & Reg.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1, 402.3.4 [FR1] ¹	Door U-factor.	U	U	Complies Does Not Not Observable Not Applicable	See the Envelope Assemblies table for values.
402.1.1, 402.3.1, 402.3.3, 402.5 [FR2] ¹	Glazing U-factor (area-weighted average).	u	u	Complies Does Not Not Observable Not Applicable	See the Envelope Assemblies table for values.
303.1.3 [FR4] ¹	U-factors of fenestration products are determined in accordance with the NFRC test procedure or taken from the default table.			Complies Does Not Not Observable Not Applicable	
402.4.1.1 [FR23] ¹	Air barrier and thermal barrier installed per manufacturer's instructions.			Complies Does Not Not Observable Not Applicable	
402.4.3 [FR20] ¹	Fenestration that is not site built is listed and lisbeled as meeting AAMA /WDMA/CSA 101/I.S.2/A440 or has infiltration rates per NFRC 400 that do not exceed code limits.			Complies Does Not Not Observable Not Applicable	
402.4.5 [FR16] ²	IC-rated recessed lighting fixtures sealed at housing/interior finish and labeled to indicate \$2.0 cfm leakage at 75 Pa.			Complies Does Not Not Observable	
403.3.1 [FR12] ¹	Supply and return ducts in attics insulated $>=$ R-8 where duct is >= 3 inches in diameter and $>=R-6 where < 3 inches. Supply andreturn ducts in other portions ofthe building insulated >= R-6 fordiameter >= 3 inches and R-4.2for < 3 inches in diameter.$			Complies Does Not Not Observable Not Applicable	
403.3.5 [FR15] ³	Building cavities are not used as ducts or plenums.			Complies Does Not Not Observable	
403.4 [FR17] ²	HVAC piping conveying fluids above 105 °F or chilled fluids below 55 °F are insulated to ≥R-3.	R	R	Complies Does Not Not Observable Not Applicable	
403.4.1 [FR24] ¹	Protection of insulation on HVAC piping.			Complies Does Not Not Observable Not Applicable	
403.5.3 [FR18] ²	Hot water pipes are insulated to ER-3.	R	R	Complies Does Not Not Observable Not Applicable	
403.6 [FR19] ²	Automatic or gravity dampers are installed on all outdoor air intakes and exhausts.			Complies Does Not Not Observable Not Applicable	
	1 High Impact (Tier :	L) 2 Medium	Impact (Tier 2)	3 Low Impact (Ti	er 3)
Decloset Tit	le: Unit #* OEDM Heights				Report date: 01/10/1

Section # & Rea.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
401.3 [FI7] ²	Compliance certificate posted.			Complies Does Not Not Observable Not Applicable	
303.3 [FI 18] ³	Manufacturer manuals for mechanical and water heating systems have been provided.			Complies Does Not Not Observable	

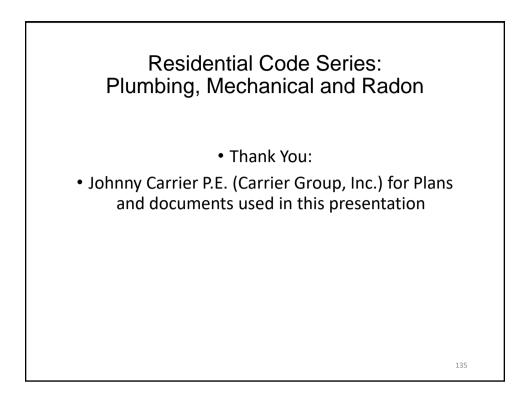


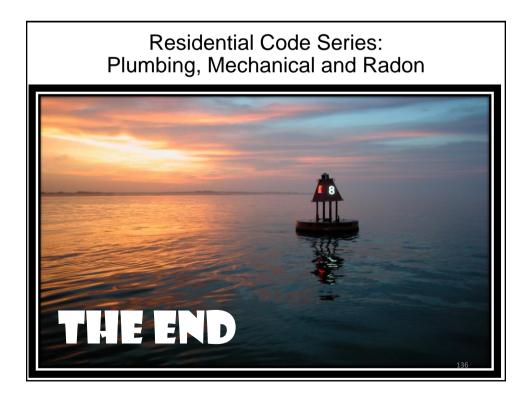
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Pl	umbi Ener	ng, H gy	spection VAC, Radon • Compliance certificate posted N1101.14
nsulation Raling Above-Grade Wall Below-Grade Wall Floor Ceiling / Roof Ductwork (unconditioned spaces):	R-Value 19.00 0.00 38.00 49.00	2	 Approved location
Slass & Door Rating	U-Factor	SHGC	
Window	0.27	0.29	
Door	0.17		
leating & Cooling Equipment	Efficiency		
Heating System:			
Cooling System: Water Heater:			
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Use of OEDM Training Materials

Use of Office of Education and Data Management (OEDM) training materials must be approved in writing by the State of Connecticut, Department of Administrative Services' Office of Communications. In approving of such use, the State of Connecticut assumes no liability associated with such use, including, but not limited to, the user's dissemination of any inaccurate information or interpretation in connection with its use of these training materials. Use of the training materials is at the sole risk of the user, and the State's approval of the use does not constitute an endorsement of the user or its intended use.

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