

HEWITT TEXAS

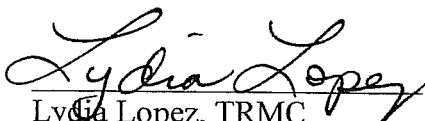
NOTICE OF MEETING OF THE GOVERNING BODY

Notice is hereby given that a **Dinner Workshop** meeting of the governing body of the City of Hewitt will be held on the **20th day of January, 2014 at 5:30 PM** in **Hewitt City Hall, 105 Tampico Drive**, Hewitt, Texas, at which time the following subjects will be discussed:

1. City Manager's update on municipal business:
 - a. Report from City Engineer including review and discussion of Capital Improvement Projects.
 - b. Briefing and discussion concerning 2012 International Building Code and 2012 International Fire Code.
 - c. Briefing and discussion concerning bid for Depository Services Contract.
 - d. Briefing and discussion concerning election dates and charter amendment election.
 - e. Briefing and discussion concerning Public Safety Facility including update from RDBR, PLLC, Architects and K4 Construction.
 - f. Briefing and discussion concerning future facilities.
 - g. Briefing and discussion concerning Public Safety operations – Police & Fire.
 - o Hewitt National Night Out Ranked 1st in State
 - o Insurance Services Office (ISO) Update
 - h. Briefing and discussion concerning update to sign regulations.
2. Review regular meeting agenda items.
3. Convene Executive Session pursuant to the Open Meetings Act, Chapter 551, Texas Government Code to discuss the following:
 - Pursuant to § 551.087 – Deliberation regarding Economic Development Negotiations.
 - Pursuant to §551.074 - Personnel Matters.
4. Close Executive Session.
5. Adjourn.

I, the undersigned authority, do hereby certify that the above Notice of Meeting of the governing body of the City of Hewitt, Texas was posted on the Public Notice Board located in front of City Hall at 11:00 AM/PM on January 15, 2014.

CITY OF HEWITT


Lydia Lopez, TRMC
City Secretary

Persons with disabilities who plan to attend this meeting and who may need auxiliary aids or services such as interpreters for persons who are deaf or hearing impaired, readers, large print or Braille, are requested to contact the Hewitt City Secretary at (254) 666-6171 at least 24 hours prior to the meeting, so that appropriate arrangements can be made.

HEWITT TEXAS

NOTICE OF MEETING OF THE GOVERNING BODY

Notice is hereby given that a **Regular** meeting of the governing body of the City of Hewitt will be held on the **20th day of January, 2014 at 7:00 PM in the City Council Room at Hewitt City Hall, 105 Tampico Drive, Hewitt, Texas**, at which time the following subjects will be discussed:

1. Pledge of Allegiance to the U.S. Flag
2. Consider approval of minutes of the Council Dinner Workshop/Regular Meeting of January 6, 2014.
3. Hear visitors on matters pertaining to city business.
4. Consider appointment of Municipal Court Judge.
5. Consider reappointment of member to the Parks & Beautification Committee.
6. Confirm reappointment of Greg Davis to the Police Officers' Civil Service Commission as recommended by the City Manager.
7. Authorize the City Manager to negotiate and execute a contract with Mike Pietsch, P.E. Consulting Services, Inc. in conjunction with the City's ISO rating.
8. Adjourn.

I, the undersigned authority, do hereby certify that the above Notice of Meeting of the governing body of the City of Hewitt, Texas was posted on the Public Notice Board located in front of City Hall at 11:00 AM PM on January 15, 2014.

CITY OF HEWITT



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WORKSHOP ITEM #1.a

HEWITT TEXAS

CITY ENGINEER'S REPORT

January 15, 2014

Note: All schedules, dates and references to completion dates are approximate and subject to change.

Street Improvements:

Devonshire Street & Drainage Improvements

All substantial construction is complete; all that remains is clean-up, sodding, and a final walk through.

I-35 Widening - Utility Adjustments:

All substantial construction is complete. The contractor is currently working on finishing up the final punch list, after its completion we will do a final walk through. This project is under contract with TXDOT as is the completion timeline.

Water Utility Improvements:

Commerce Park Water Plant:

We are in the submittal phase of the project. They hope to have the foundation crew begin mid-February, pending submittal approval. This project is called to be completed on April 15, 2015.

Ritchie Road Plant and Well Electrical System Improvements:

The electrical engineer hopes to have his portion of the project completed towards the end of February.

Wastewater Utility Improvements:

Lift Station No. 2 Replacement:

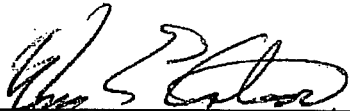
The contractor is waiting for the inside of the lift station structure to be coated. After coating is applied and cured, all that will remain is pump installation, electrical, setting the generator, and site fencing.

Patriot Court – Street, Drainage and Water/Sewer Utilities:

The contractor has begun some of the required dirt work for this project, and we are currently reviewing project submittals. This project is scheduled to be completed mid-May 2014.

HEWITT TEXAS II

By:

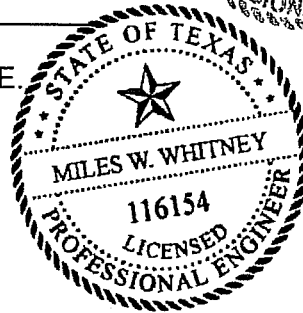
 P.E.

William E. Aston, P.E.



 P.E.

Miles W. Whitney, P.E.

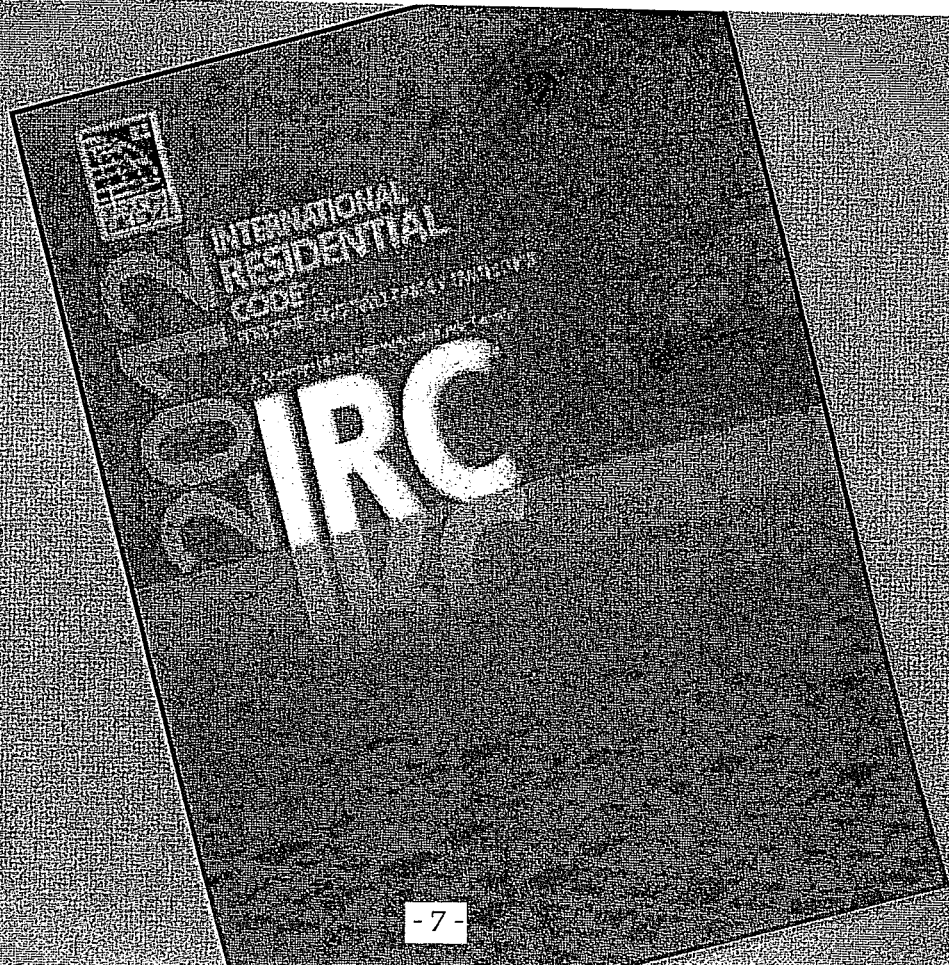
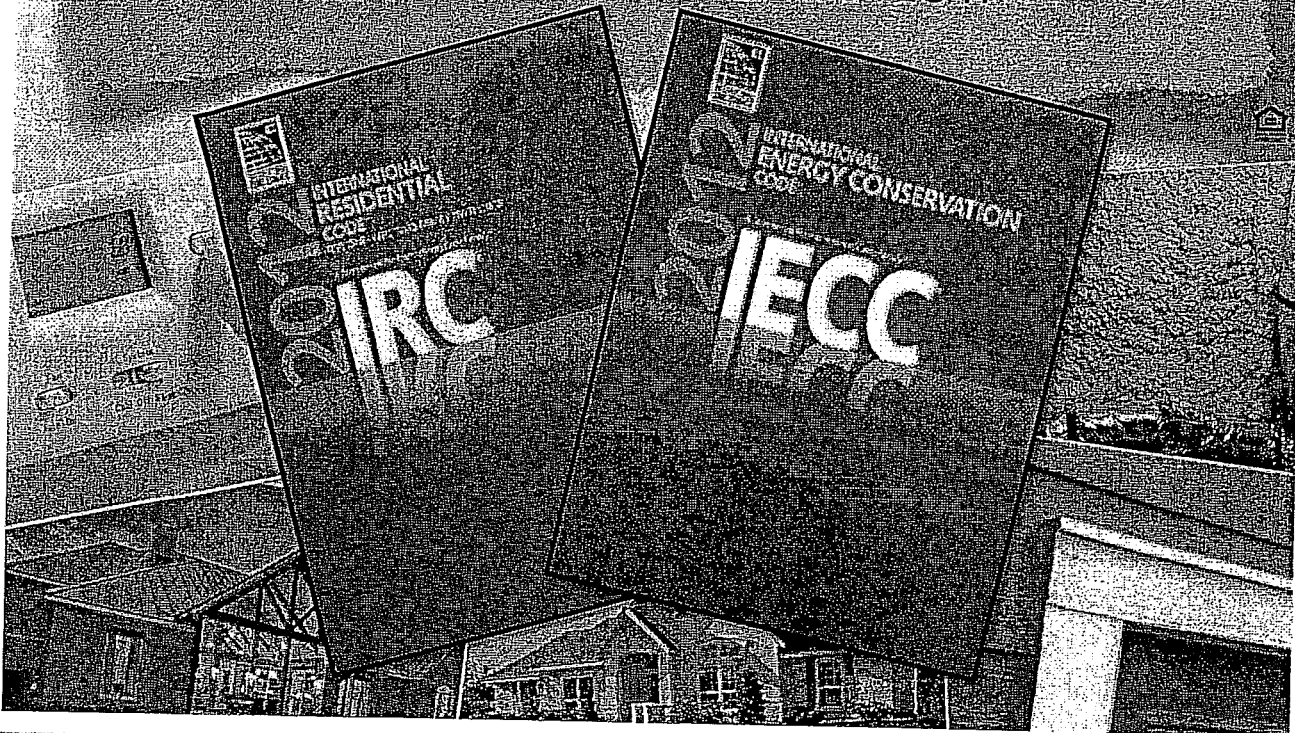


HEWITT TEXAS

WORKSHOP ITEM #1.b

2012 Residential Codes

IRC & IECC Review



The story of the BLACK LINE

Snow Load Map

Basic Wind Speed Map and Topographic effects

Seismic Design categories Figures

Flood Hazard Map & Jurisdictions Flood code

Mean temp., by jurisdiction

TABLE R301.2(1)
CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

GROUND SNOW LOAD	WIND DESIGN		SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP	ICE BARRIER UNDERLAYMENT REQUIRED	FLOOD HAZARDS	AIR FREEZING INDEX	MEAN ANNUAL TEMP
	Speed (mph)	Topographic effects		Weathering	Frost line depth	Termite					

Wind damage due to topography? By jurisdiction

Weather Probability Map
Frost depth, by jurisdiction

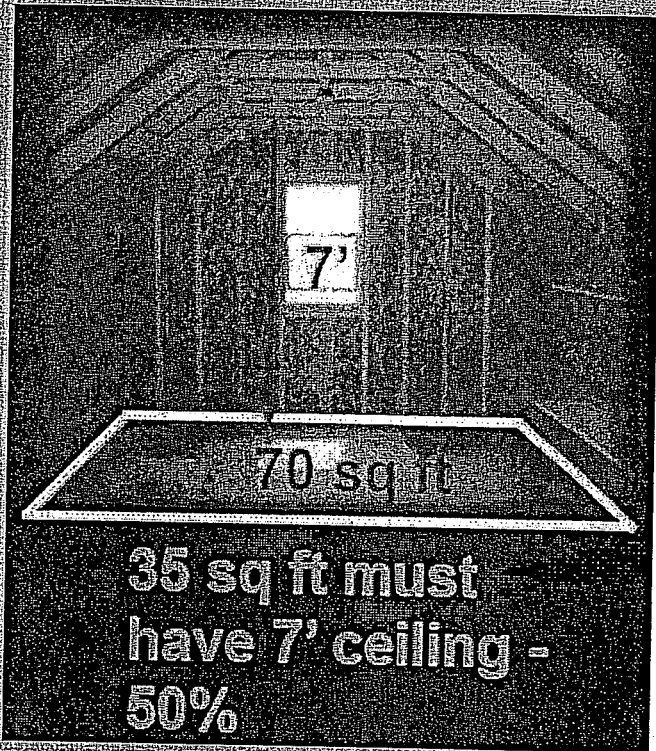
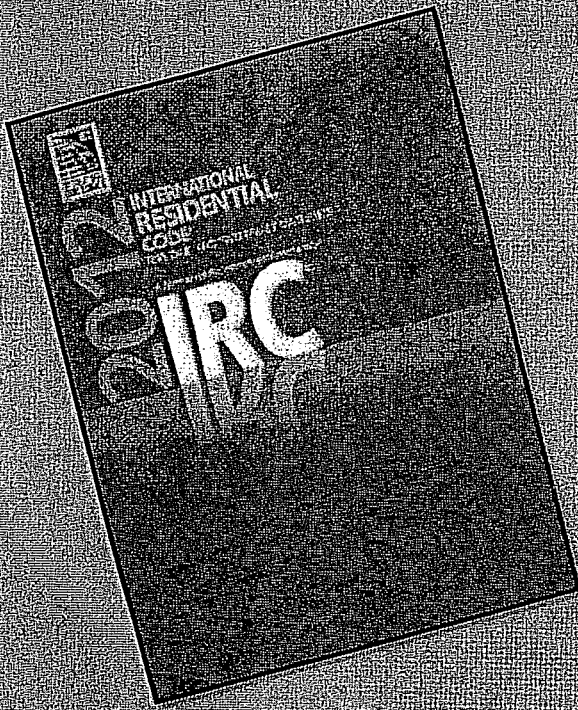
Termite Infestation, by jurisdiction
Appendix D of IPC or by jurisdiction

Ice damming prevention, by jurisdiction

Per Table R403.3(2)



Definitions - "Attic, Habitable": - Finished or unfinished area, at least 70 SF, not less than 7' in one direction, at least 50% of ceiling height = 7' (other 50% cannot be below 5') has roof, walls, and floor area.



R301.1.3 – Engineered Design: Allows for engineered design if you don't use prescriptive method.

R301.2.1 – Wind Design Criteria: Over 110 mph = use engineer. Roof members to meet new section R802.11 "Roof Tie-Downs". For 90 – 110 mph we have a choice to have it engineered or use prescriptive methods in code book.

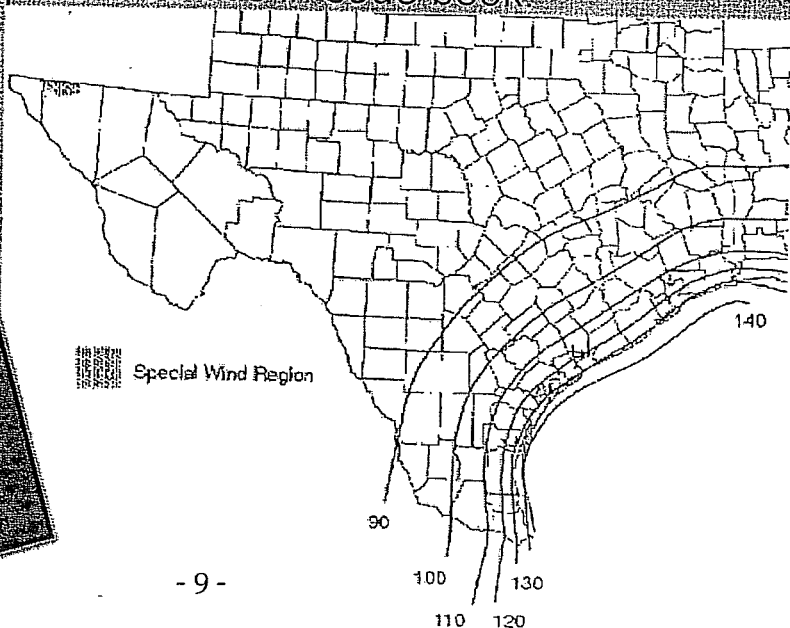
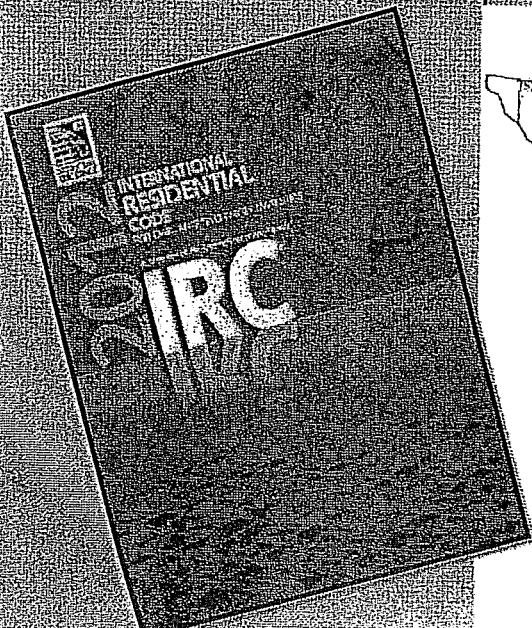


Table R301.5 – Live load table: Uninhabitable attic (no storage) = 10 psf, Uninhabitable attic (limited storage) = 20 psf, Habitable attics and attics served by stairs = 30 psf.

Table R301.7 – Allowable deflections: This table affects all framing members we use. This, along with the new Southern Pine values needs to be looked at deeply.

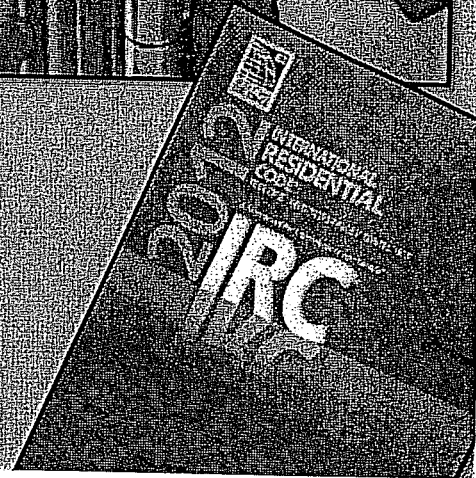
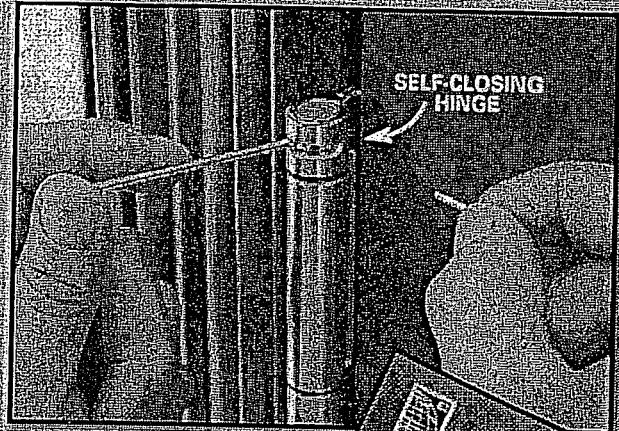
**Table #41: Rafters – 20 PSF Live Load,
10 PSF Dead Load, 240 Deflection**

Size Inches	Spacing Inches on center	Check the spans of installed rafters			
		Visually Graded			
		DSS	No.1	No.2	No.3
2x6	120	16-4	15-6	14-9	11-9
	160	14-11	14-1	13-5	10-2
	19.2	14-0	13-3	12-3	9-4
	240	13-0	12-3	11-0	8-4
2x8	120	21-7	20-5	19-6	14-10
	160	19-7	18-6	17-1	12-10
	19.2	18-5	17-5	15-7	11-9
	240	17-2	16-2	13-11	10-6

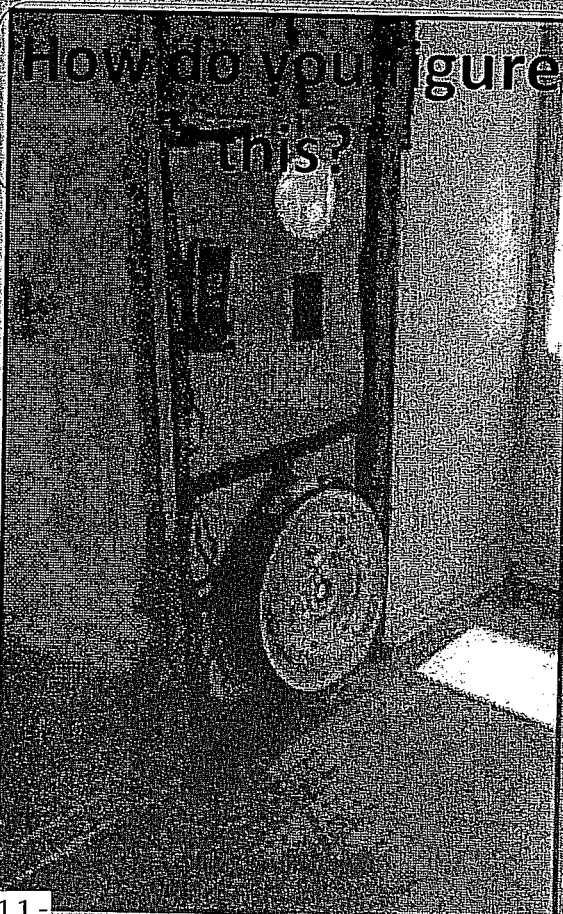
R302.5.1 – Opening protection (attached garage): Self closing device required at attached garages.

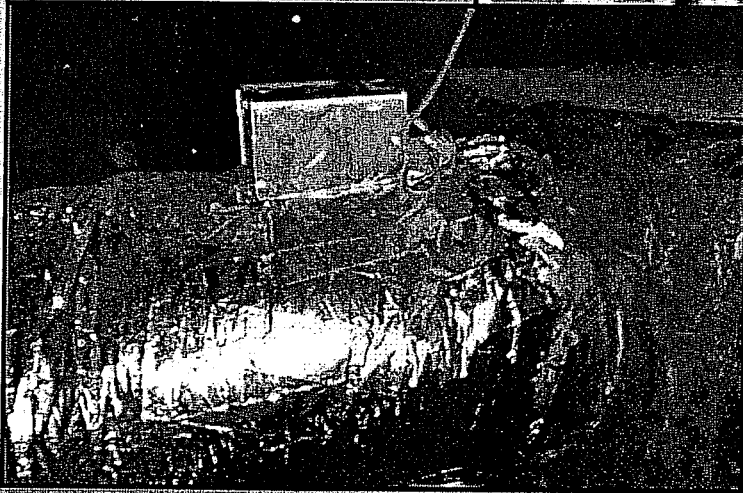
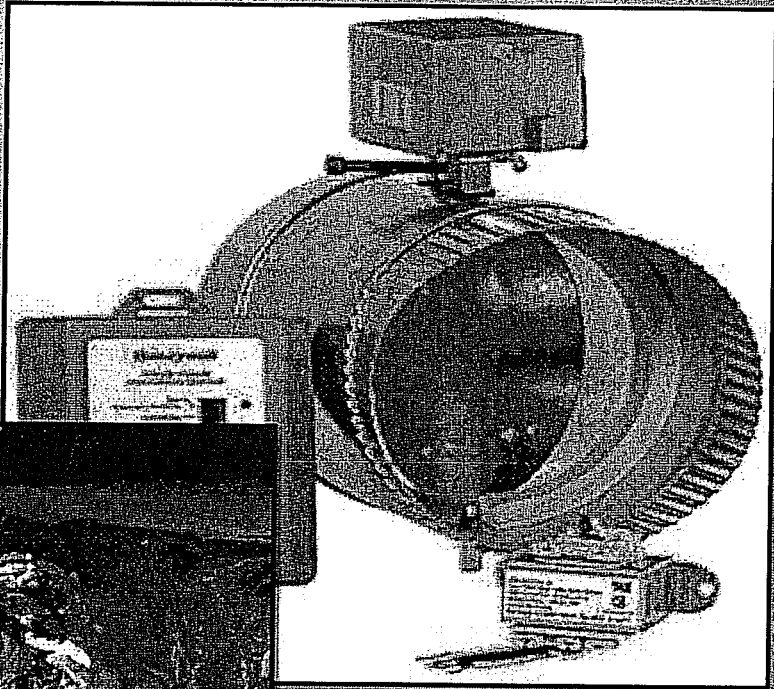
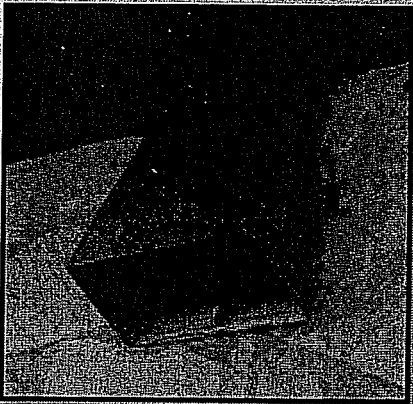
Garage openings:

- ✓ Not into a bedroom
- ✓ Solid wood or steel door not less than 1 3/8"
- ✓ 20-minute fire-rated door
- ✓ Self closing device

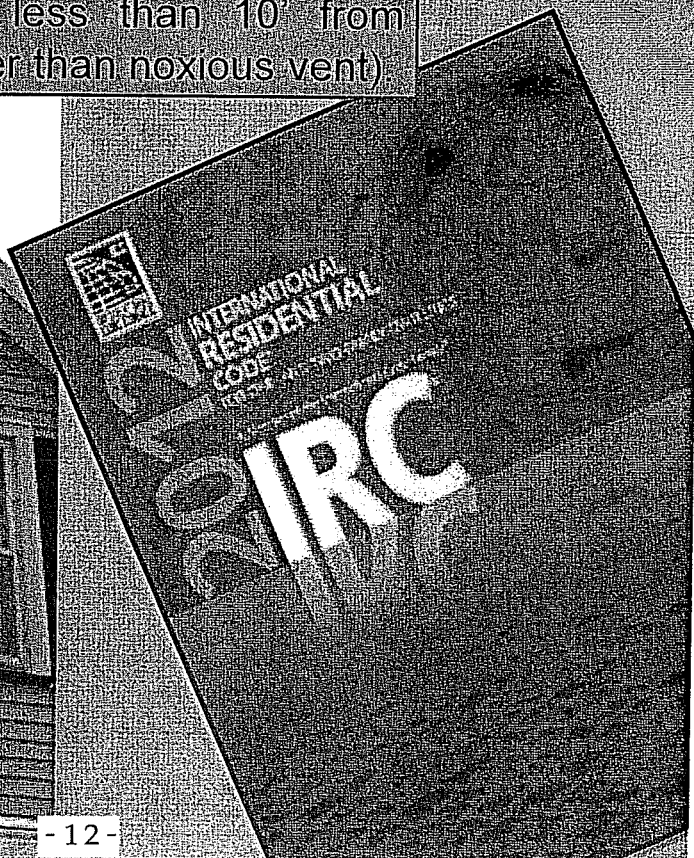


R303.4 – Mechanical ventilation: Ventilate per M1507.3 (If under 5 ACH)



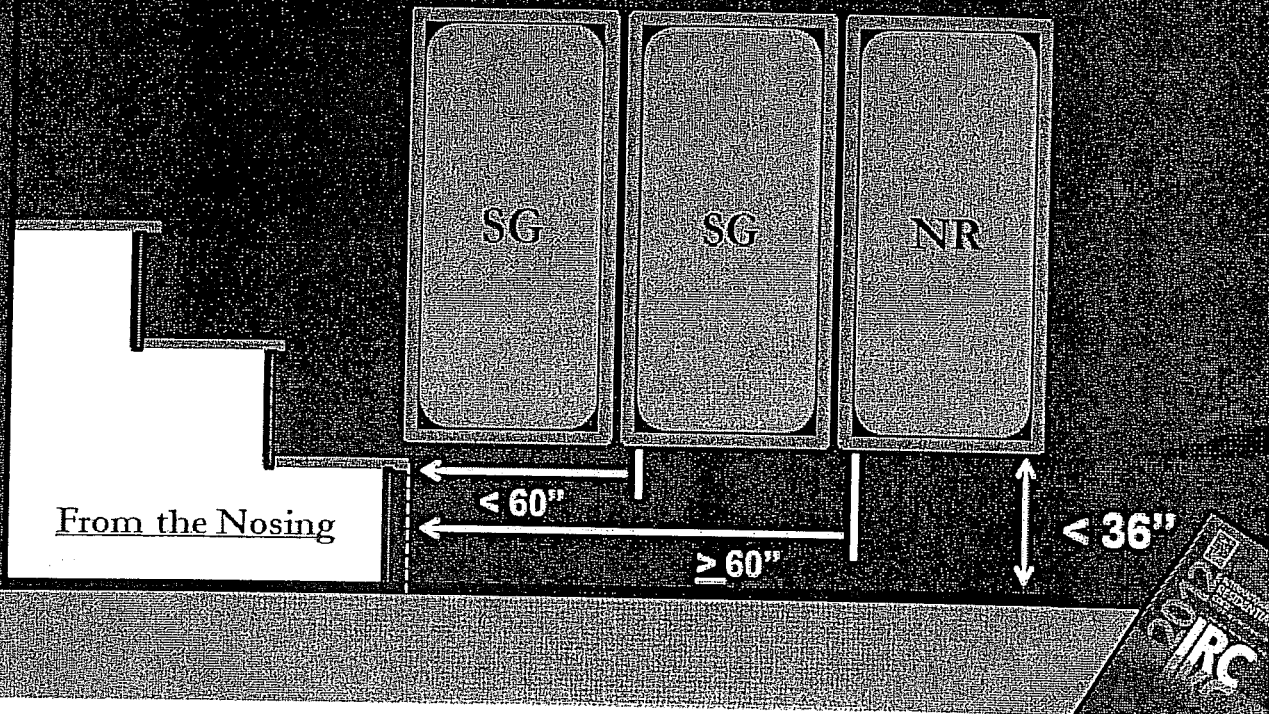


R303.5 – Opening location (Intakes and exhausts): Intakes not less than 10' from noxious vents (or be 3' lower than noxious vent)



R308.4.7 - Glazing adjacent to the bottom stair landing

- Glazing adjacent to the landing at the bottom of a stairway where the glazing is $< 36''$ above the landing and within $60''$ horizontally of the bottom tread shall be considered a hazardous location.

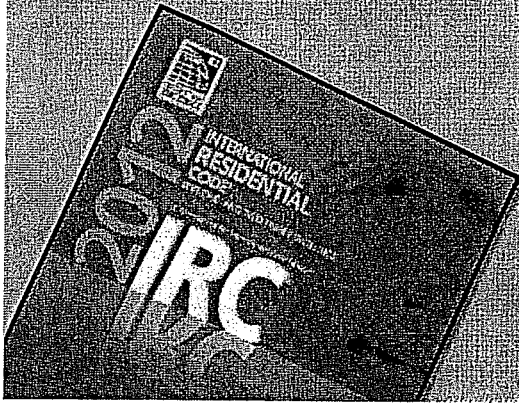
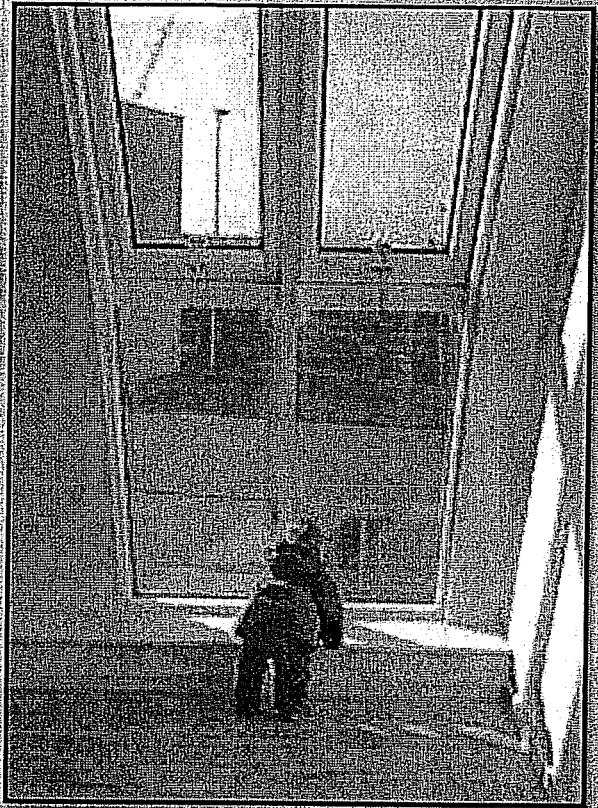


R310.1 – Sill height at windows: The dimension at the sill used for egress (like a bedroom) is still a max of $44''$. However, the measurement is taken to the edge of the opening when the window is in the open position. So rather than being the sill itself it is probably the lip of the vinyl frame. Note The requirement for emergency escape applies to Habitable Attics too.

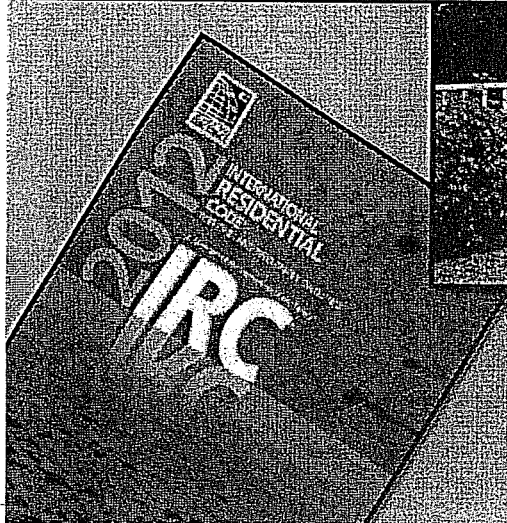
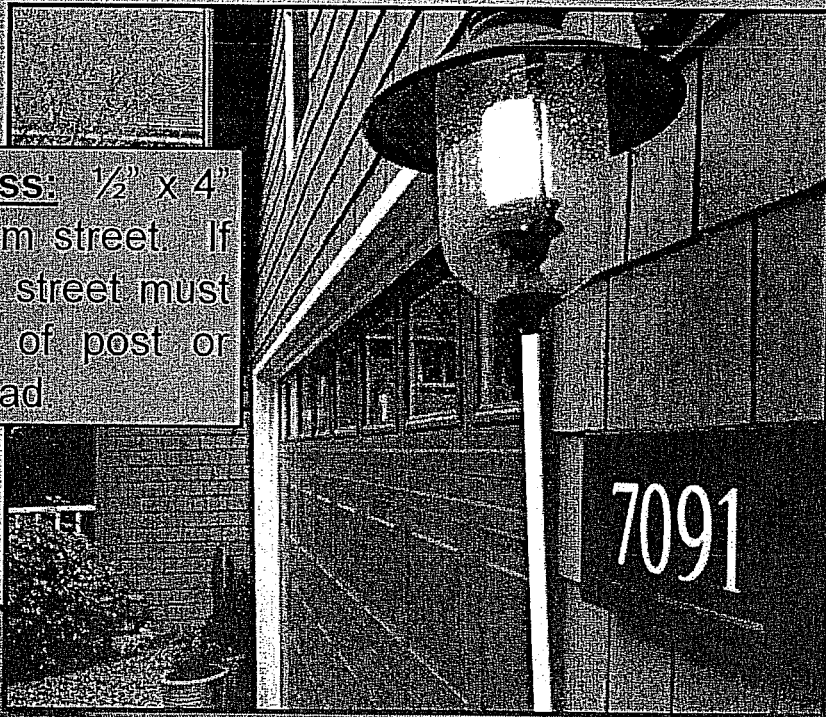


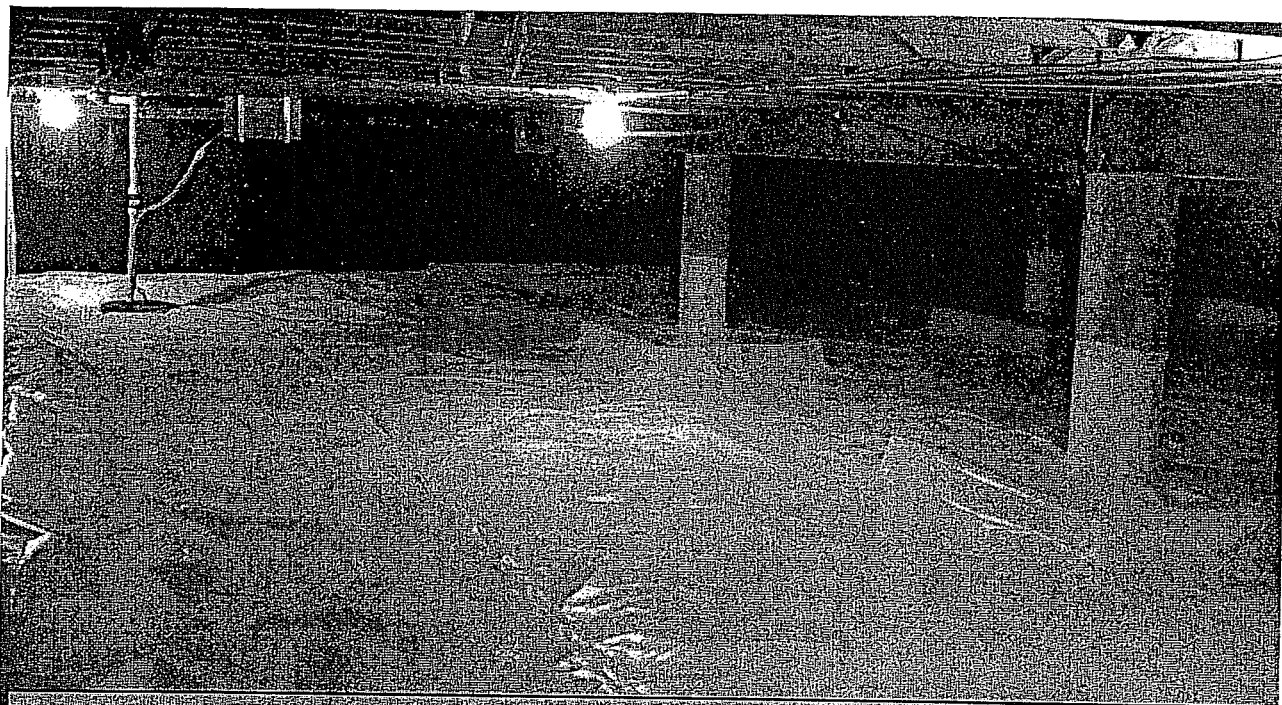
R312 - Guards and Window Fall Protection:

- ✓ More than 72" above the surface below
- ✓ Bottom of opening minimum 24" above floor
- ✓ If below 24" opening shall not allow 4" sphere
- ✓ (Fall prevention or opening control devices)



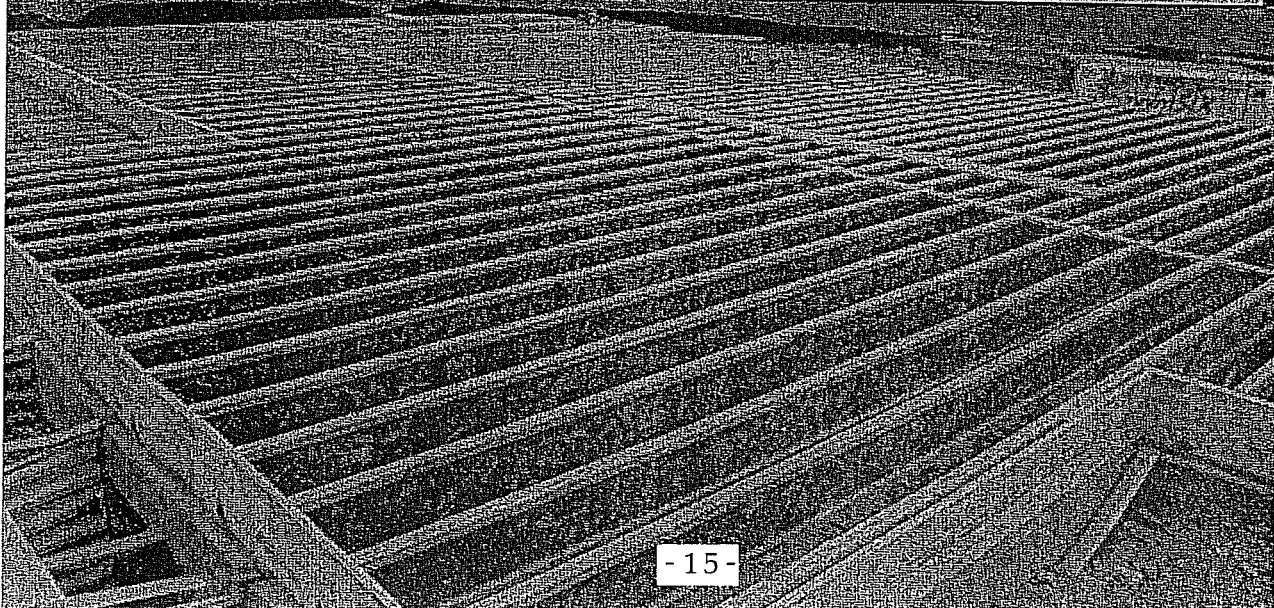
R319 - Site address: $\frac{1}{2}$ " x 4" numbers visible from street. If can't be seen from street must be on some sort of post or monument at the road.





R408.3 – Unvented crawl space: This details how to properly detail the unvented crawl space. Vapor retarder over the ground, overlaps at least 6", all seams taped, extend at least 6" up walls and piers and be sealed here as well. This area must also have proper ventilation per one of 3 choices listed.

R501.3 – Fire protection for floors: This is a new section. Floor assemblies not covered elsewhere in the code shall have some fire rated properties. Can use 1/2" sheetrock or 5/8" OSB (Not required in a crawl space only if there is no storage and no gas fired appliances). Not required if the floor structure is made out of 2 x 10 or 2 x 12 material.



R507 – Decks: Entirely new section that includes details on Flashing, connections (galvanized or stainless), ledgers, etc. Can be applied to balconies as well.



R602.1.1 – End jointed lumber: If finger-jointed material is used in a fire rated assembly (like the wall between the garage and the house) it must have "HRA" marked on it (Heat Resistant Adhesive).

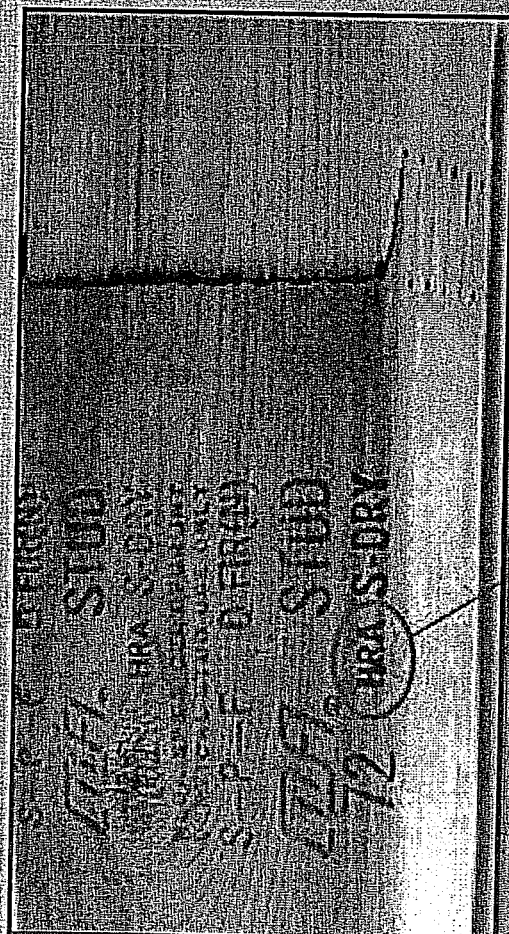
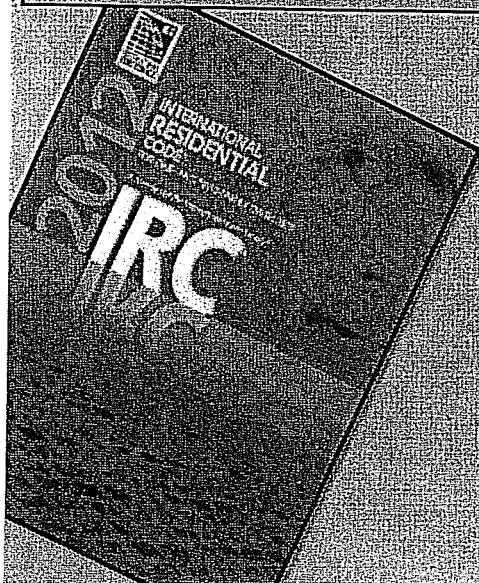


Table R602.3(1) – Fastener schedule: 5 items have been added or revised:

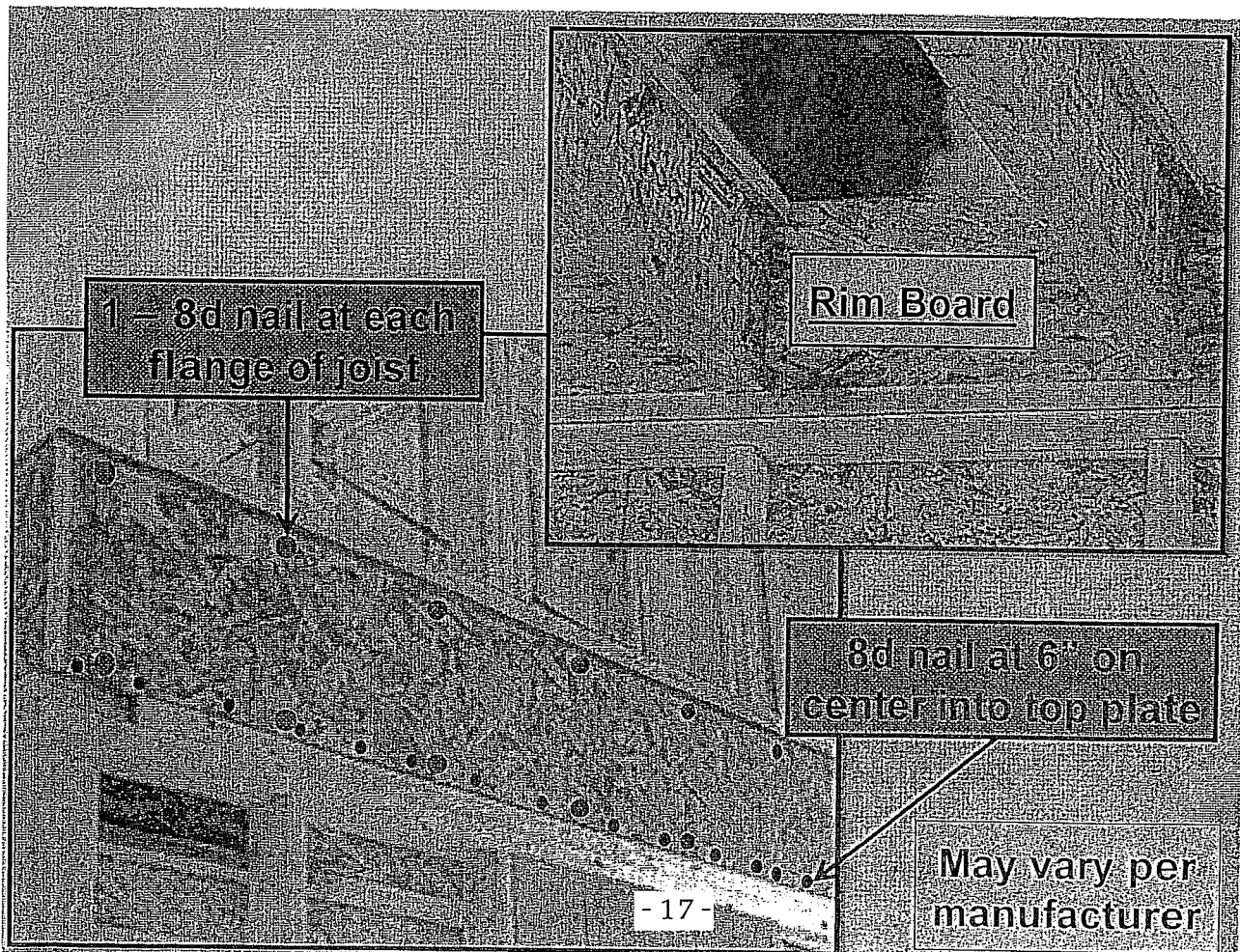
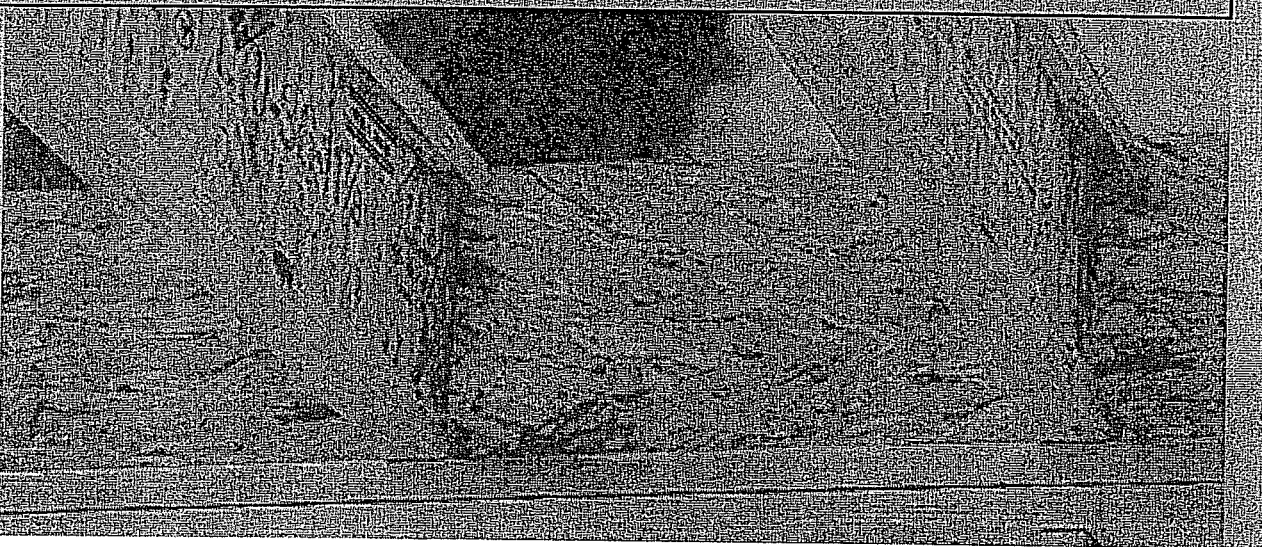
#5 = Rafter to plate – 3-16d box nails or 3-10d common nails

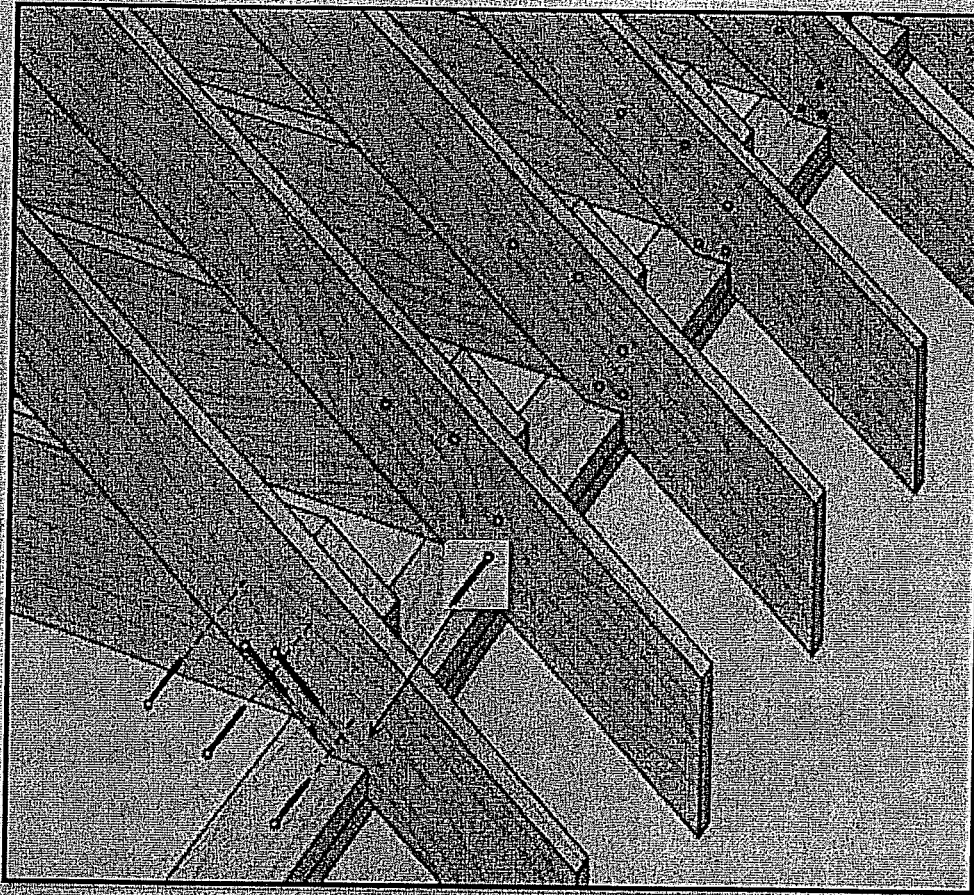
#7 = Built up corner studs – 10d nails at 24" on center

#8 = Studs at intersecting walls – 16d nails at 12" on center

#9 = Built up header with spacer – 16d nails at 16" on center along edges

#25 = Rim joist to plate – 8d nails at 6" on center





R602.7 – Single member headers:

Headers at exterior walls can be made with one 2x and filled with insulation.

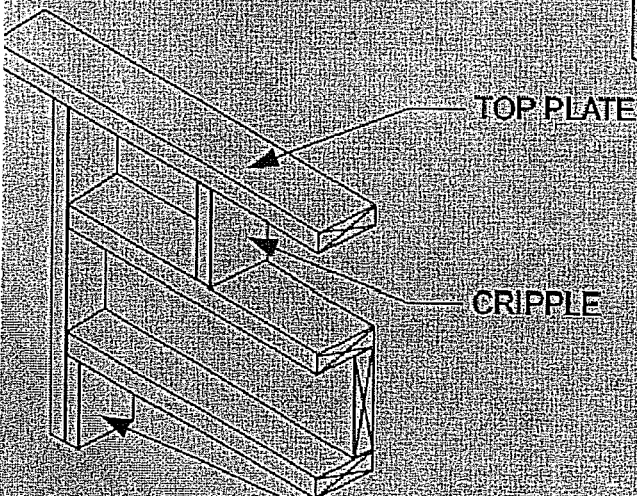
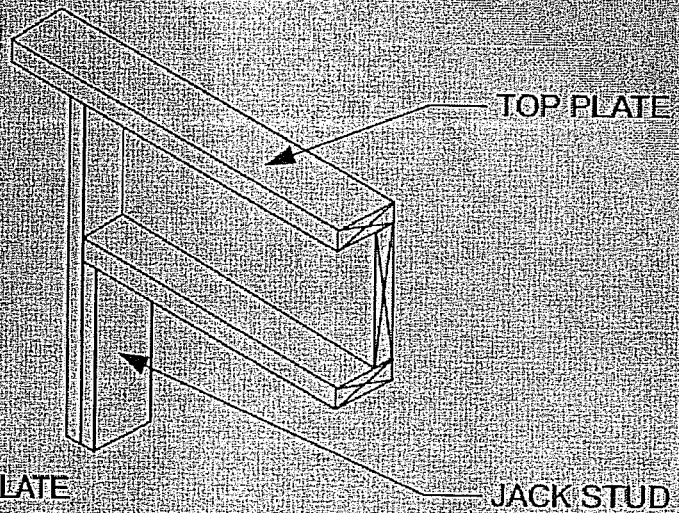


TABLE R602.7.1 Variables:
Size of 2x, what's above it,
type of wood, load, building
width

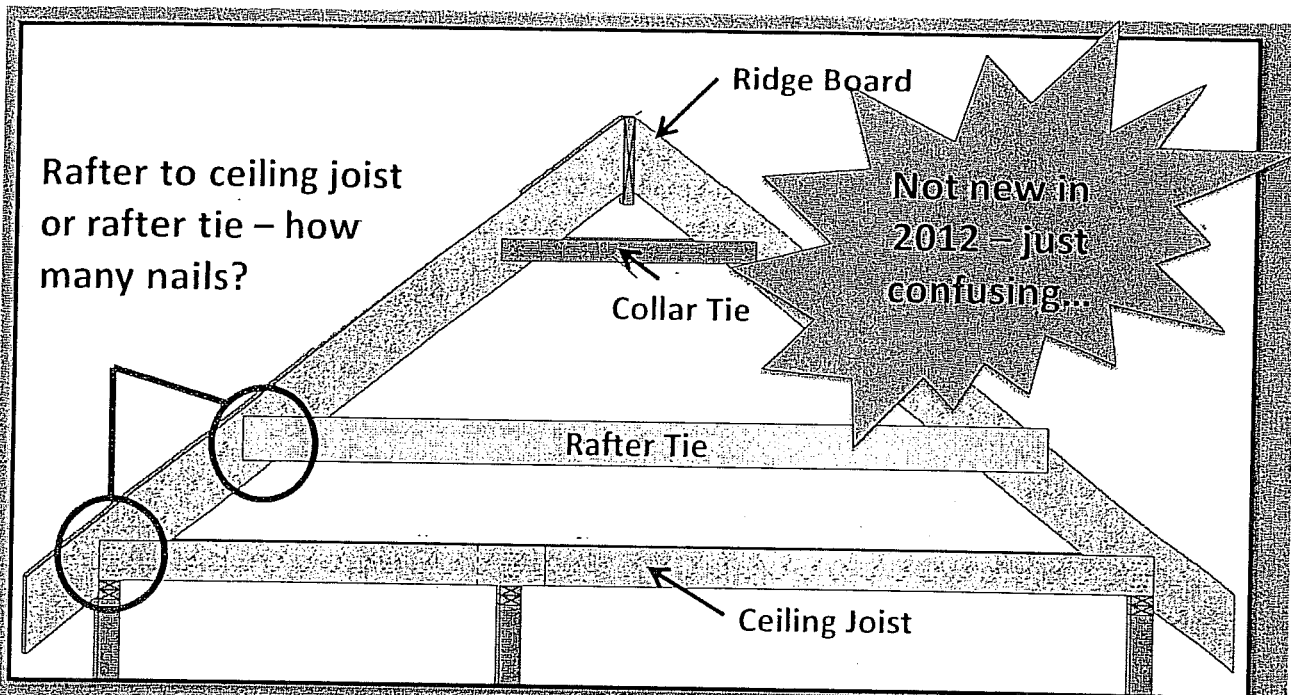


Table R802.5.1(9)

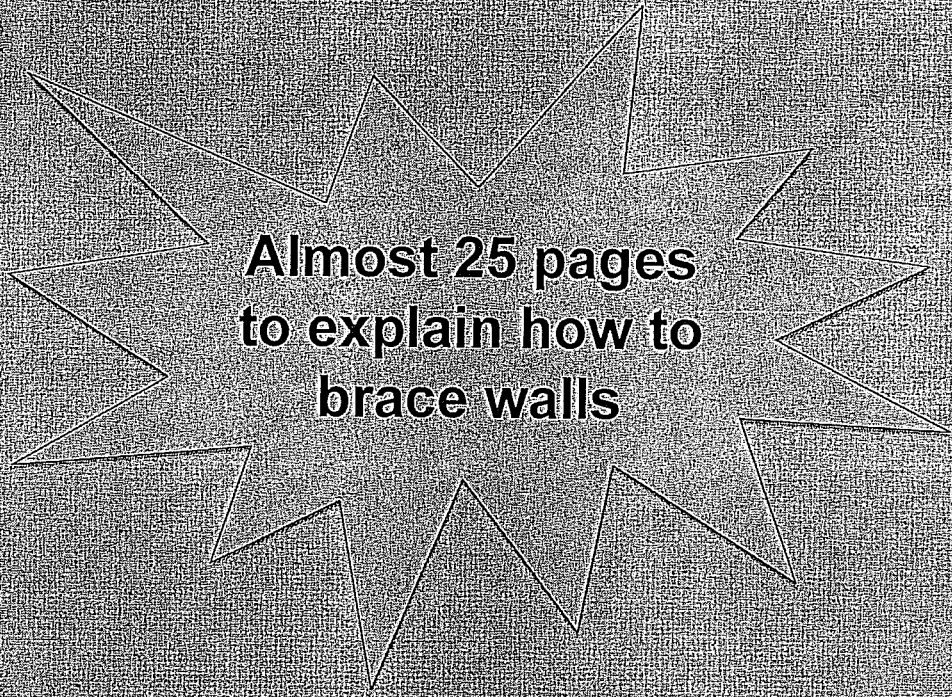
Number of 16d common nails depends on roof slope, rafter spacing, roof span, and loading conditions. For 24' on center spacing and minimal loads it ranges from 3 - 19 nails.

TABLE R802.5.1(9) RAFTER/CEILING JOIST HEEL JOINT CONNECTIONS^{a, b, c, d, e, f, h}

RAFTER SLOPE	RAFTER SPACING (inches)	GROUND SNOW LOAD (psf)															
		20 ^b				30				50				70			
		Roof span (feet)															
		12	20	28	36	12	20	28	36	12	20	28	36	12	20	28	36
		Required number of 16d common nails ^{a, b} per heel joint splices ^{c, d, e, f}															
3:12	12	4	6	8	10	4	6	8	11	5	8	12	15	6	11	15	20
	16	5	8	10	13	5	8	11	14	6	11	15	20	8	14	20	26
	24	7	11	15	19	7	11	16	21	9	16	23	30	12	21	30	39
4:12	12	3	5	6	8	3	5	6	8	4	6	9	11	5	8	12	15
	16	4	6	8	10	4	6	8	11	5	8	12	15	6	11	15	20
	24	5	8	12	15	5	9	12	16	7	12	17	22	9	16	23	29
5:12	12	3	4	5	6	3	4	5	7	3	5	7	9	4	7	9	12
	16	3	5	6	8	3	5	7	9	4	7	9	12	5	9	12	16
	24	4	7	9	12	4	7	10	13	6	10	14	18	7	13	18	23

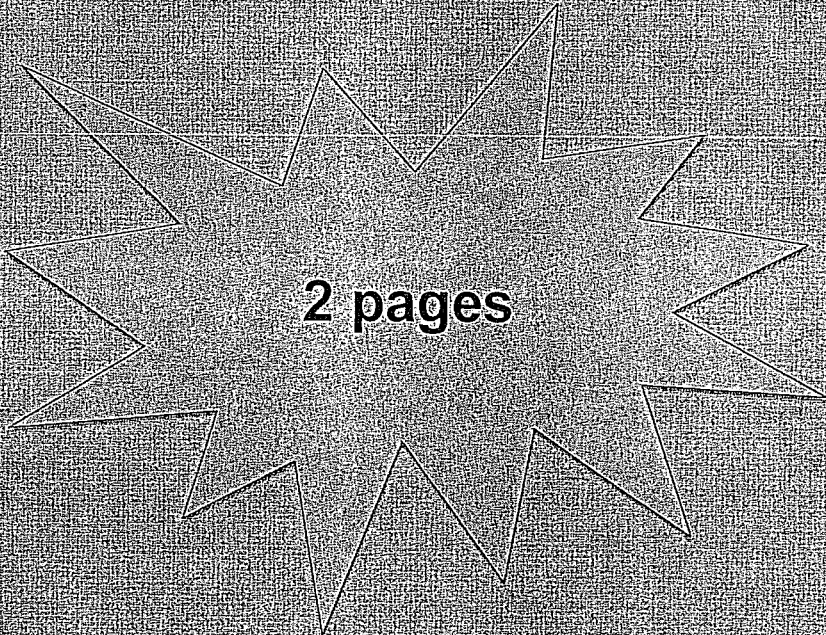
R602.10 – Braced wall lines &

R602.11 – Wall anchorage:



**Almost 25 pages
to explain how to
brace walls**

R602.12 – Simplified wall bracing



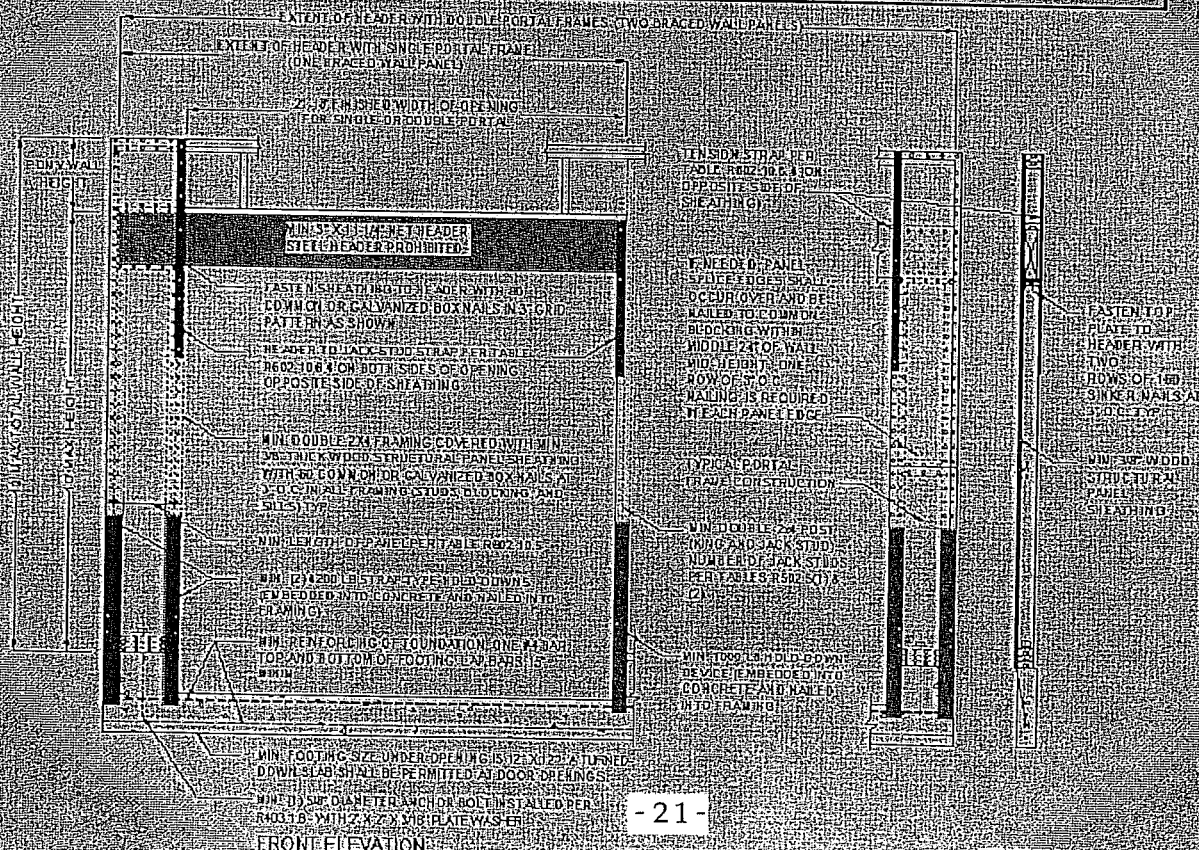
2 pages

R602.12 – Simplified wall bracing

8 Requirements to Qualify:

- ✓ No more than 2-stories above concrete foundation or basement.
- ✓ Walls can't cantilever more than 24".
- ✓ Wall heights do not exceed 10'.
- ✓ Roof eave-to-ridge height does not exceed 15'.
- ✓ All exterior walls have at least ½" sheetrock on interior.
- ✓ Wind design below 90 mph, Exposure Category A or B.
- ✓ Seismic categories A, B, or C for 1 & 2 family.
- ✓ No cripple walls on 2-story homes.

R602.10.6 and R602.12.6 – Narrow Panels

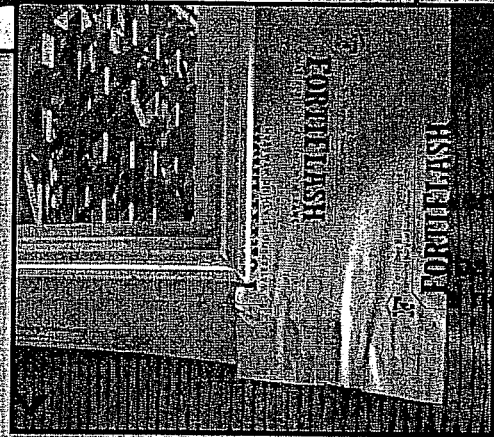


R703.8 – Flashing: Doors and windows are to be flashed

Use manufacturer's details for flashing

If not provided, use pan flashings along with jamb and head flashings

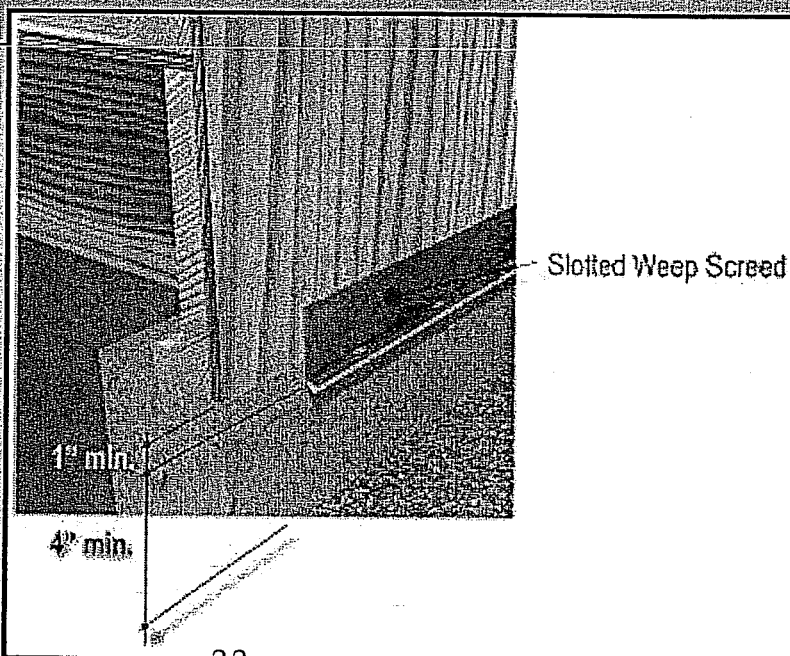
Can use architect's details



R703.12.1 – Adhered masonry veneer - Clearances: When gluing masonry to the wall a few new notes have been added. Minimum clearances at the bottom are 4" above earth, 2" above pavement, and $\frac{1}{2}$ " above walking surfaces which are supported by the same foundation that supports the exterior wall.

R703.12.2 – Flashing at foundation:

Minimum vertical leg of 3 $\frac{1}{2}$ " to extend at least 1" below bottom plate. The water resistant barrier shall lap over the vertical leg



R802.7.1.1 Cantilevered portions of rafters.

Notches on cantilevered portions of rafters are permitted provided the dimension of the remaining portion of the rafter is not less than $3\frac{1}{2}$ inches (89 mm) and the length of the cantilever does not exceed 24 inches (610 mm) in accordance with Figure R802.7.1.1.

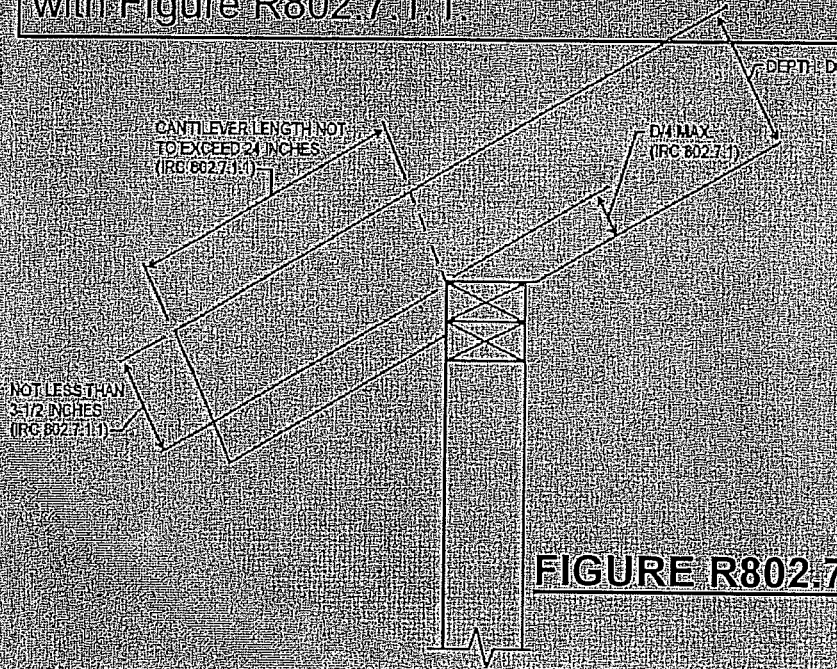
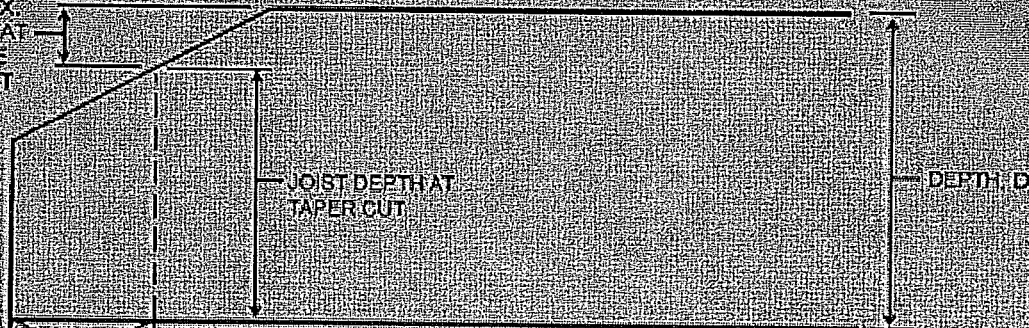


FIGURE R802.7.1.1 RAFTER NOTCH

DEPTH OF TAPER CUT: D/4 MAX. MEASURED AT INSIDE FACE OF SUPPORT



R802.7.1.2 Ceiling joist taper cut.

Taper cuts at the ends of the ceiling joist shall not exceed one-fourth the depth of the member in accordance with Figure R802.7.1.2.

R802.11.1 Uplift resistance.

Roof assemblies shall have uplift resistance in accordance with Sections R802.11.1.2 and R802.11.1.3.

Where the uplift force does not exceed 200 pounds, rafters and trusses spaced not more than 24 inches on center shall be permitted to be attached to their supporting wall assemblies in accordance with Table R602.3(1).

Where the basic wind speed does not exceed 90 mph, the wind exposure category is B, the roof pitch is 5:12 or greater, and the roof span is 32 feet or less, rafters and trusses spaced not more than 24 inches on center shall be permitted to be attached to their supporting wall assemblies in accordance with Table R602.3(1).

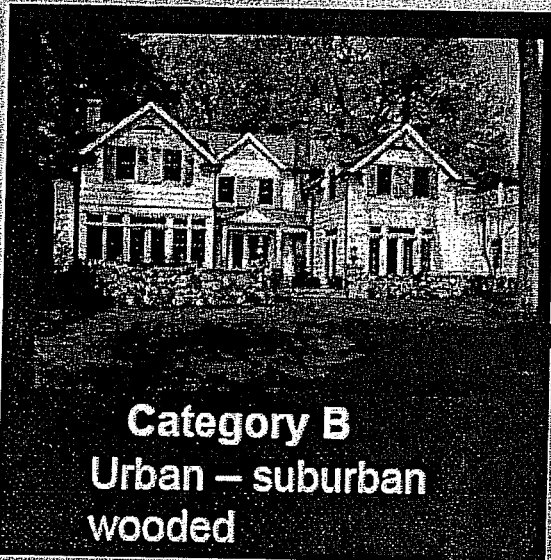
R802.11.1.2 Truss uplift resistance.

R802.11.1.3 Rafter uplift resistance.

Individual rafters shall be attached to supporting wall assemblies by connections capable of resisting uplift forces as determined by Table R802.11 or as determined by accepted engineering practice. Connections for beams used in a roof system shall be designed in accordance with accepted engineering practice.

**TABLE R802.11 RAFTER OR TRUSS UPLIFT CONNECTION FORCES FROM WIND
(POUNDS PER CONNECTION)**

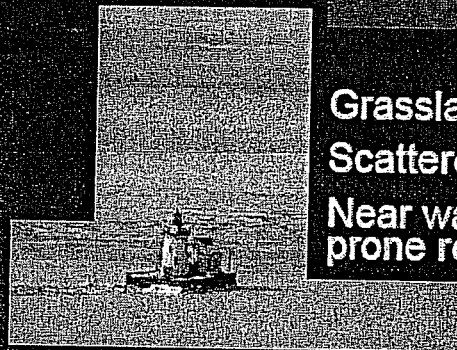
RAFTER OR TRUSS SPACING	ROOF SPAN (feet)	EXPOSURE B							
		Basic Wind Speed (mph)							
		85		90		100		110	
		Roof Pitch		Roof Pitch		Roof Pitch		Roof Pitch	
		< 5:12	≥ 5:12	< 5:12	≥ 5:12	< 5:12	≥ 5:12	< 5:12	≥ 5:12
12' o.c.	12	47	41	62	54	93	81	127	110
	18	59	51	78	68	119	104	165	144
	24	70	61	93	81	145	126	202	176
	28	77	67	104	90	163	142	227	197
	32	85	74	115	100	180	157	252	219
	36	93	81	126	110	198	172	277	241
	42	105	91	143	124	225	196	315	274
	48	116	101	159	138	251	218	353	307
16' o.c.	12	63	55	83	72	124	108	169	147
	18	78	68	103	90	159	138	219	191
	24	93	81	124	108	193	168	269	234
	28	102	89	138	120	217	189	302	263
	32	113	98	153	133	239	208	335	291
	36	124	108	168	146	264	230	369	321
24' o.c.	12	63	55	83	72	124	108	169	147
	18	78	68	103	90	159	138	219	191
	24	93	81	124	108	193	168	269	234
	28	102	89	138	120	217	189	302	263
	32	113	98	153	133	239	208	335	291
	36	124	108	168	146	264	230	369	321
RAFTER OR TRUSS SPACING	ROOF SPAN (feet)	EXPOSURE B							
		Basic Wind Speed (mph)							
		85		90		100		110	
		Roof Pitch		Roof Pitch		Roof Pitch		Roof Pitch	
		< 5:12	≥ 5:12	< 5:12	≥ 5:12	< 5:12	≥ 5:12	< 5:12	≥ 5:12
24' o.c.	12	94	82	124	108	186	162	254	221
	18	117	102	155	135	238	207	329	286
	24	140	122	186	162	290	252	404	351
	28	154	134	208	181	326	284	454	395
	32	170	148	230	200	360	313	504	438
	36	186	162	252	219	396	345	554	482
	42	209	182	285	248	449	391	630	548
	48	232	202	318	277	502	437	706	614



Category B
Urban – suburban
wooded



Category C
Grasslands, flat plains
Scattered trees
Near water in hurricane
prone regions

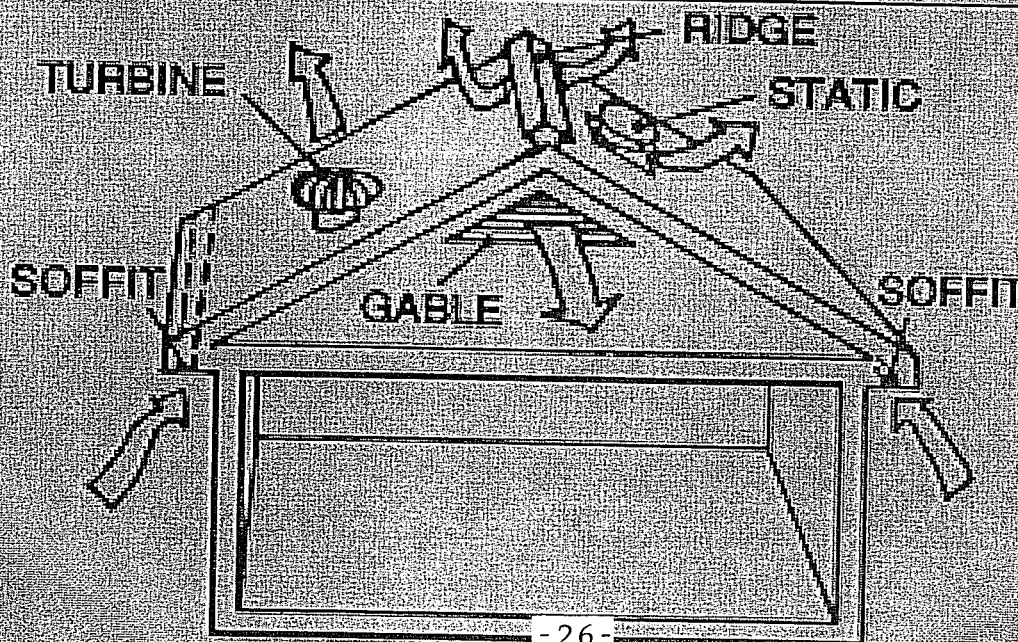


Category D
Unobstructed, flat
Outside hurricane prone
regions
Unbroken ice, salt flats

R301.2.1.4

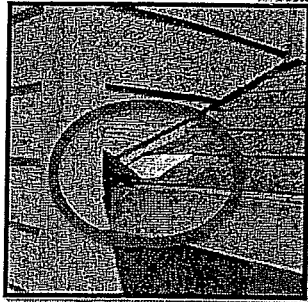
Exposure Category

R806 – Roof ventilation: This section has undergone a mass rewriting. Generally, the formula for proper venting has been revised. Only 40% - 50% of venting is allowed in the upper half (was 50 -80%) of the roof. These vents shall not be more than 3' below the ridge. It is still a minimum ratio of 1/150 SF or 1/300 SF if 40 – 50% of the vents are up high.



R905.2.8.3 – Sidewall flashing: (It took 12 years but it's finally official) The code now will accept step flashing or continuous flashing at sidewalls on the roof.

BUILDING PAPER OR HOUSE WRAP COVERS VERTICAL LEG OF STEP FLASHING



R903.2.1 – Locations of flashing: One sentence has been added to mandate the use of kickout flashing.

DRAINAGE PLANE MATERIAL COVERS STEP FLASHING

R905.2.8.5 – Drip edge: This paragraph details drip edges. Shall be metal, overlap at least 2', extend up the roof at least 2', nailed at a maximum of 12" on center, underlayment rests on top of the drip edge at the eave, underlayment shall be under the drip edge at the rake. Unless manufacturer says otherwise, shingles may be flush with the edge of the drip edge.

Circled numbers indicate order of installation

② Roof Felt

① drip edge on eave goes under felt
Facia

③ drip edge on slope (rake) goes on top of felt
Barge Rafter

OSB on roof

Bird Box

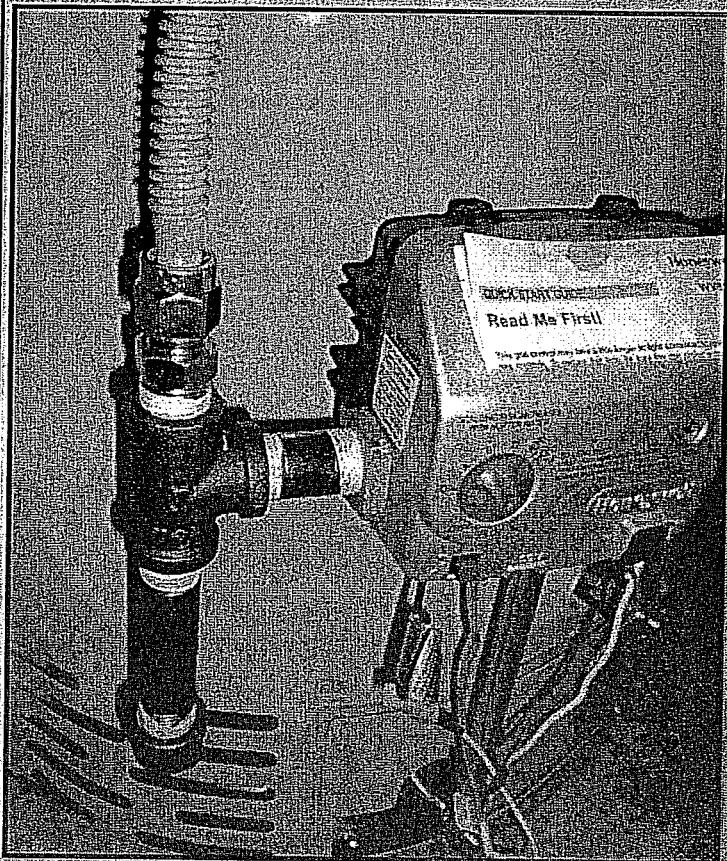
*NOTE: the rake drip edge always goes all the way to corner and overlaps eave drip edge. The detail above has gap for illustration purposes only. Trim end of rake drip edge to match eave drip edge end.

M1502.4 – Dryer exhaust ducts: Screws can be used as long as they do not penetrate the duct more than 1/8". The maximum duct length is now 35' (unless more per dryer manufacturer). Length now matches section G2439.5.5.1. Duct supports cannot exceed 12' on center.

M1506 – Exhaust ducts and exhaust openings: This has been redone. Exhausts cannot be closer than 3' to a property line. They shall not be closer than 3' from operable and nonoperable openings into the house and 10' from mechanical air intakes except where the opening is located 3' above the air intake.

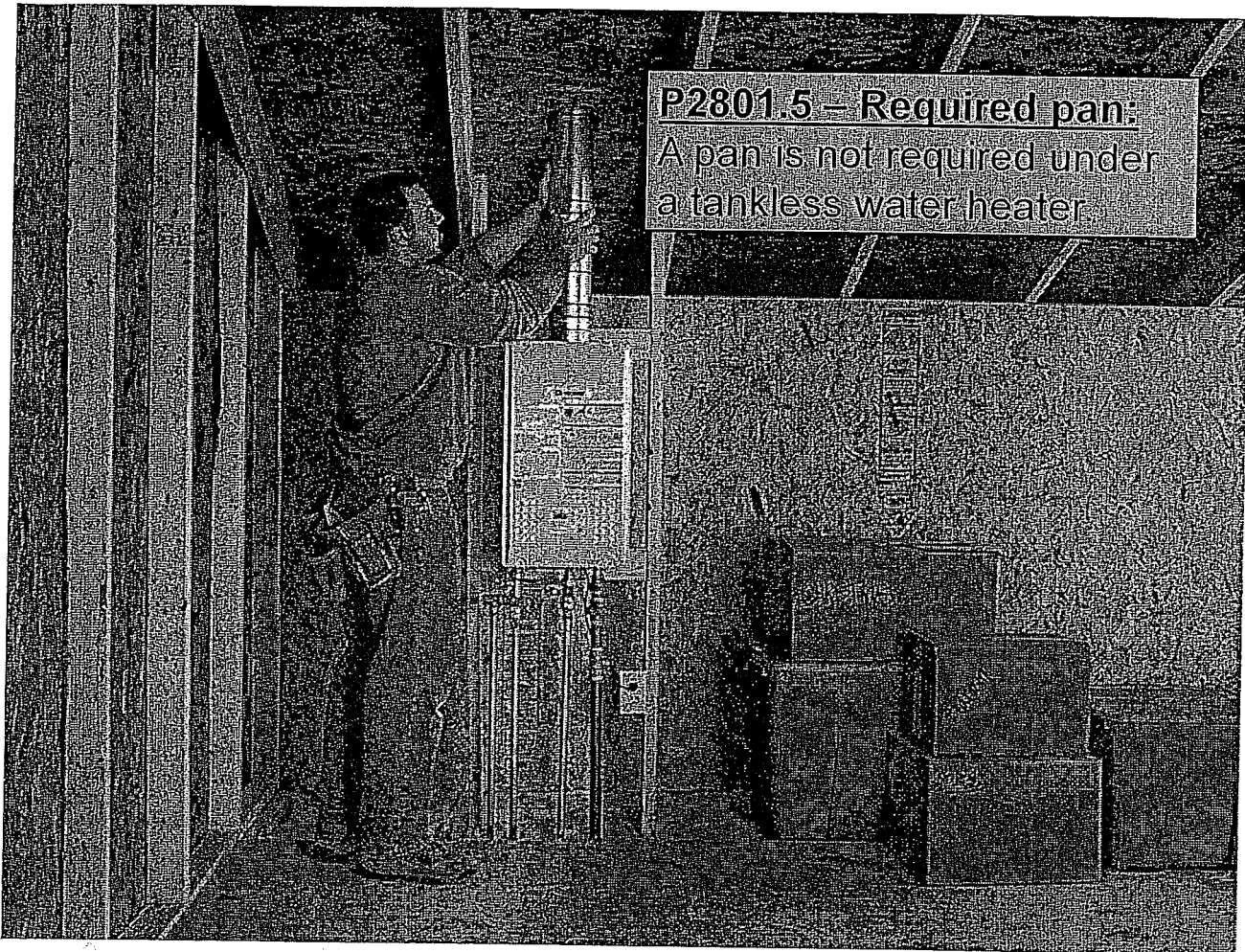
G2409.1 – Clearance to combustibles: When figuring distances to combustibles per this section, sheetrock is considered combustible due to the paper facing.

G2419.4 – Sediment traps: Sediment traps are to be installed after the shutoff at gas appliances. However, Ranges, dryers, gas fireplaces, and outdoor grills are exempt from this requirement.



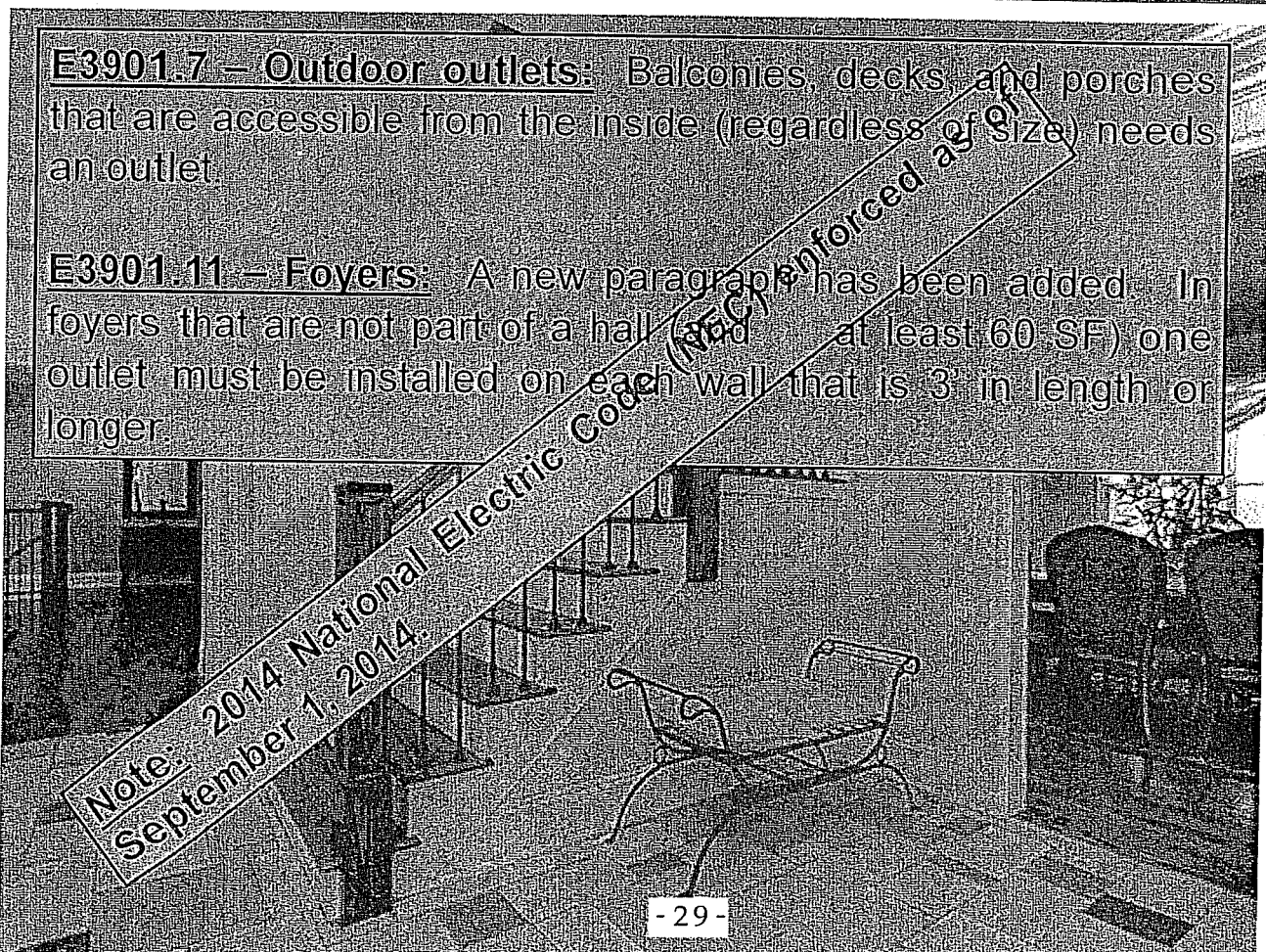
P2801.5 – Required pan:

A pan is not required under a tankless water heater.



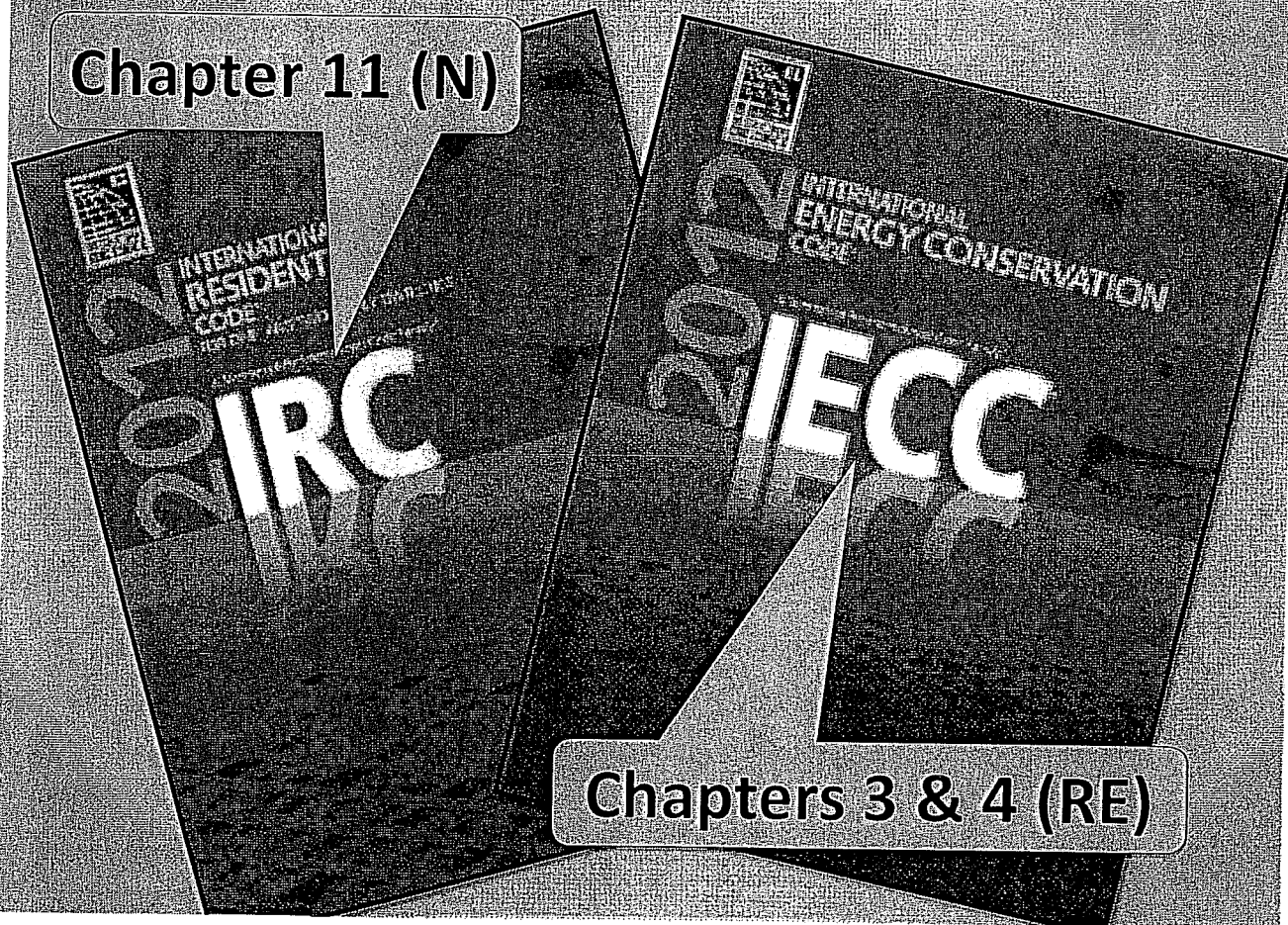
E3901.7 – Outdoor outlets: Balconies, decks, and porches that are accessible from the inside (regardless of size) needs an outlet.

E3901.11 – Foyers: A new paragraph has been added. In foyers that are not part of a hall (and at least 60 SF) one outlet must be installed on each wall that is 3' in length or longer.



Note: 2014 National Electric Code
September 1, 2014.

Chapter 11 (N)

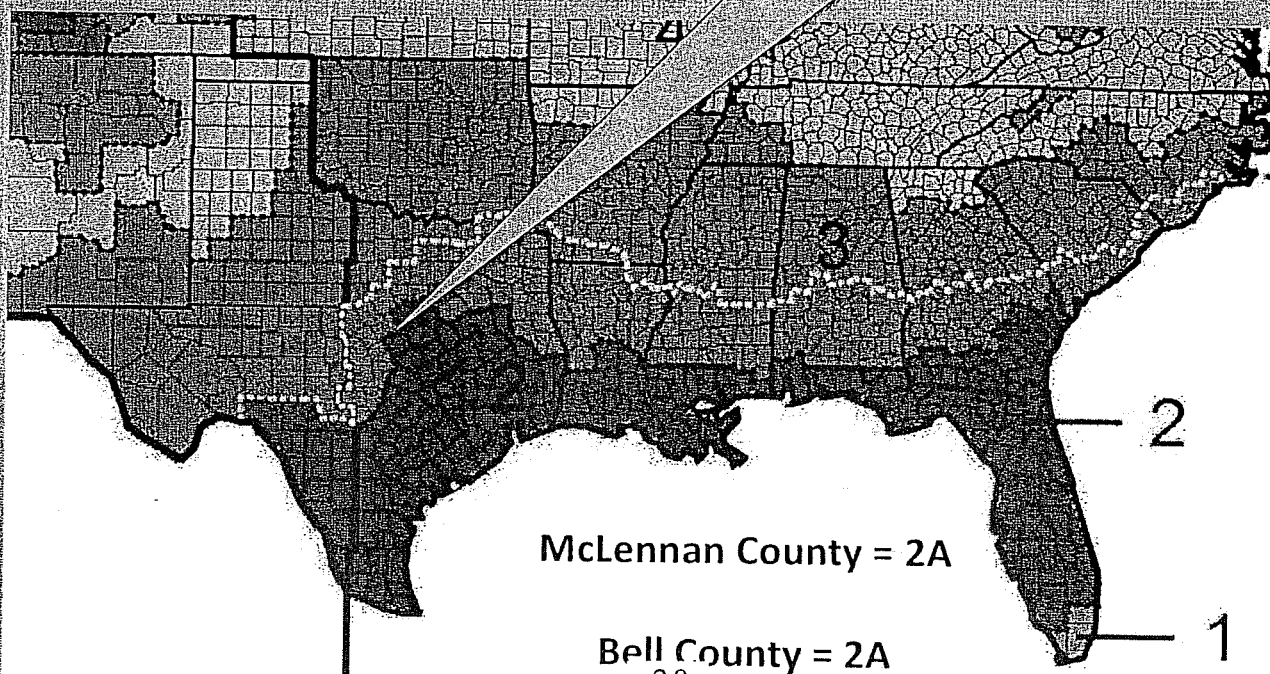


Chapters 3 & 4 (RE)

Where are you?

Texas = 2, 3, & 4

Which Climate Zone?



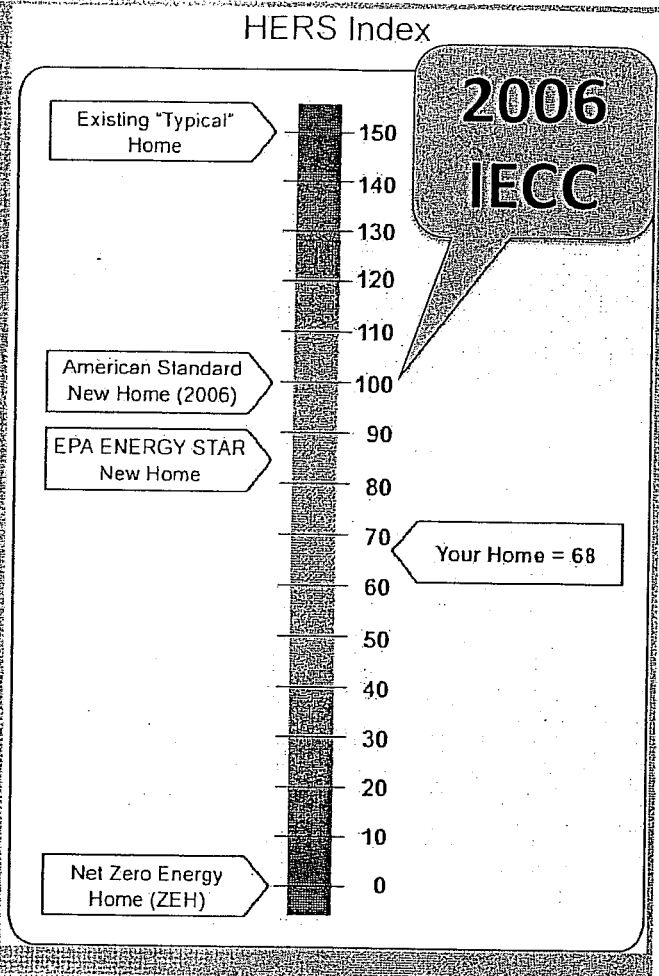
Before we start....

Where are you?

Where do we need to be?

SECO who?

2009? 2012? 2015?

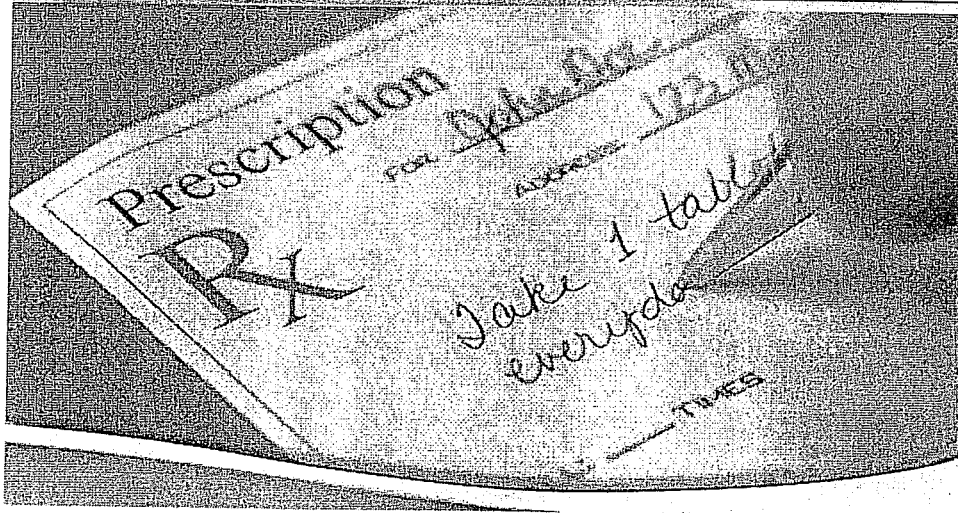


- More insulation
- Tighter envelope
- Tighter ducts
- Better windows
- More efficient lighting

IN A NUTSHELL

Prescriptive VS. Performance

REPORT CARD				
GRADING PERIOD	1	2	3	4
READING	A+			
WRITTEN COMMUNICATION	A+			
MATHEMATICS	A+			
SCIENCE/HEALTH	A+			
SOCIAL STUDIES	F			
ART	A+			
	A+			
	A+			



“Mandatory”

15 items required whether you go Prescriptive or Performance:

- ✓ Certificate
- ✓ Air leakage (and testing)
- ✓ Max. Fenestration U-factor & SHGC
- ✓ Controls
- ✓ Heat pump supplemental heat
- ✓ Duct sealing (and testing)
- ✓ Building cavities
- ✓ Mechanical system piping insulation
 - ✓ Circulating hot water systems
 - ✓ Mechanical ventilation
 - ✓ Equipment sizing
 - ✓ 2 things: Multi dwellings & Snow melt)
 - ✓ Pools and spas
 - ✓ Electrical pow - 32 - nd lighting

Energy Efficiency Certificate

Insulation Range	R-Value
Ceiling/Floor	
Walls	
Foundation Walls	
Slab	
Crawlspace Walls	
Crawlspace Floor	
Discard in Unconditioned Space	
Exterior Range	U-Value
Windows	
Doors	
WAC Equipment	AFUE or EER/SEER
Boiler Gas, Elec, Oil	
Heatpump	
Boiler Gas, Oil	
Cooling	
Water Htr. Gas, Elec, Oil	
Room Heating	Yes or No
Gas Fired	
Electric Furnace	
Baseboard Heat	
Appliances	
Refrigerator	
Dishwasher	
Washing Machine	
Dryer	

N1101.16 – Certificate: (IECC - R401.3)

- On or in the electrical panel
- By builder or design professional
- Predominant R-values
- Duct R-value
- U-factor and SHGC of doors and windows
- Test results (Duct & B. Door)
- Types and efficiencies of heating, cooling, & water heating

Table N1102.1.1 – Insulation and Fenestration requirements:

CLIMATE ZONE	FENESTRATION U FACTOR ^d	SKYLIGHT HT ^b U FACTOR R	GLAZED FENESTRATION SHGC ^{b,e}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	FLOOR R-VALUE	BASEMENT WALL R-VALUE	SLAB ^d R-VALUE & DEPTH	CRAWL SPACE ^c WALL R-VALUE
1	NR	0.75	0.25	30	13	13	0	0	0
2	0.40	0.65	0.25	38	13	13	0	0	0
3	0.35	0.55	0.25	38	20 or 13 + 5 ^f	19	5/13	0	5/13
4 except Marine	0.35	0.55	0.40	49	20 or 13 + 5 ^f	19	10/13	10, 2 ft	10/13

(IECC - Table R402.1.1)

U-Factor: The lower the U-factor, the greater a window's resistance to heat flow.



Restorations Windows
 UltraCore Frame - Triple-Glazed, Krypton/Argon, Low-E
 Product Type: Vertical Slider
 Product Number 00051

ENERGY PERFORMANCE RATINGS

U-Factor (U.S./I-P)

0.18

Solar Heat Gain Coefficient

0.25

ADDITIONAL PERFORMANCE RATINGS

Visible Transmittance

0.42

Air Leakage (U.S./I-P)

0.1

SHGC (Solar Heat Gain Coefficient): SHGC is expressed as a number between 0 and 1. The lower a window's solar heat gain coefficient, the less solar heat it transmits.

TABLE N1102.4.1.1

AIR BARRIER AND INSULATION INSTALLATION:

Mandatory Air Sealing List

(IECC Table R402.4.1.1)

"A continuous air barrier shall be installed in the building envelope. Exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed. Air-permeable insulation shall not be used as a sealing material."

"The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier sealed. Access openings, drop down stair or knee wall doors to unconditioned attic spaces shall be sealed."

"Corners and headers shall be insulated and the junction of the foundation and sill plate shall be sealed. The junction of the top plate and top of exterior walls shall be sealed. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier. Knee walls shall be sealed."

"The space between window/door jambs and framing and skylights and framing shall be sealed."

"Rim joists shall be insulated and include the air barrier."

"Insulation shall be installed to maintain permanent contact with underside of subfloor decking. The air barrier shall be installed at any exposed edge of insulation."

"Where provided in lieu of floor insulation, insulation shall be permanently attached to the crawlspace walls. Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped."

“Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.”

“Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity space.”

“Air sealing shall be provided between the garage and conditioned spaces.”

“Recessed light fixtures installed in the building thermal envelope shall be air tight, IC rated, and sealed to the drywall.”

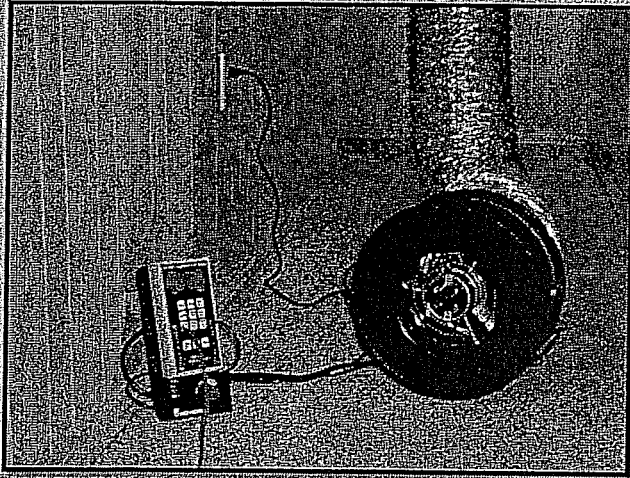
“Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.”

“Exterior walls adjacent to showers and tubs shall be insulated and the air barrier installed separating them from the showers and tubs.”

“The air barrier shall be installed behind electrical or communication boxes or air sealed boxes shall be installed.”

“HVAC register boots that penetrate building thermal envelope shall be sealed to the subfloor or drywall.”

“An air barrier shall be installed on fireplace walls. Fireplaces shall have gasketed doors.”



Duct Blaster Test

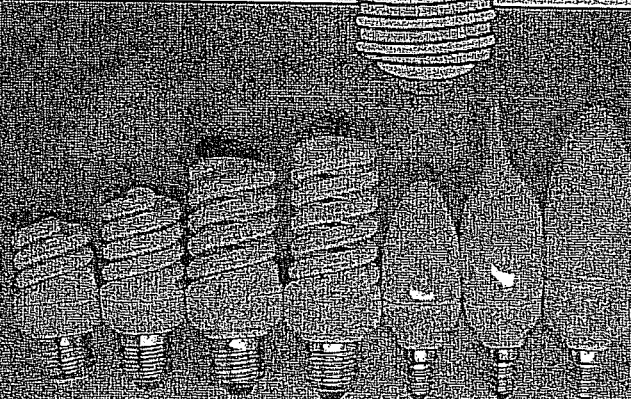
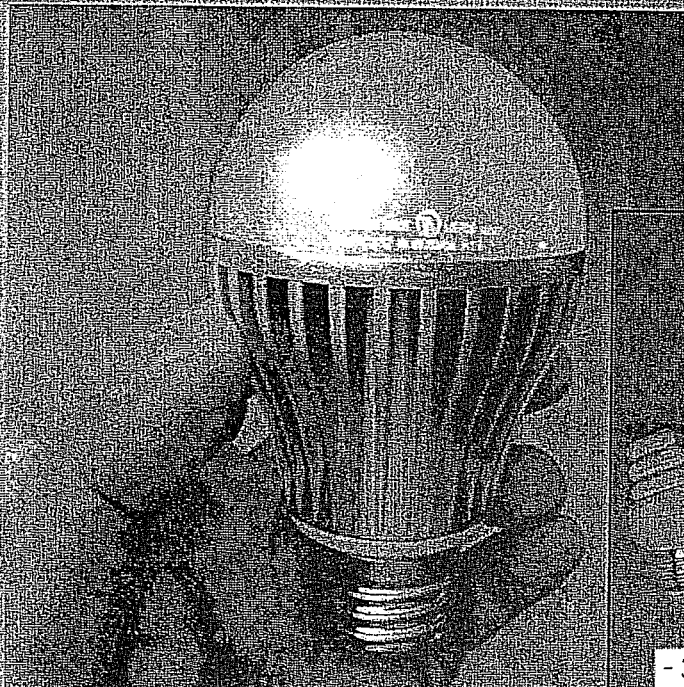
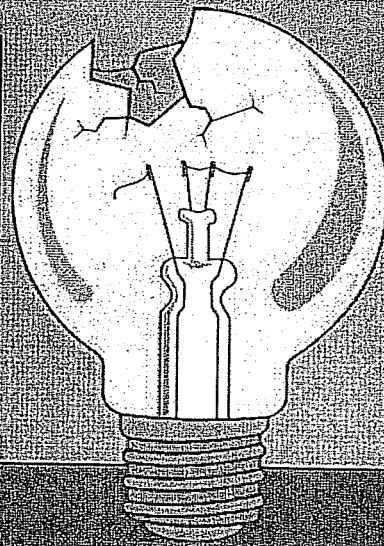
- 1). Post-construction test: 4%
- 2). Rough-in test: 4% (W/unit)
3% (W/O unit)



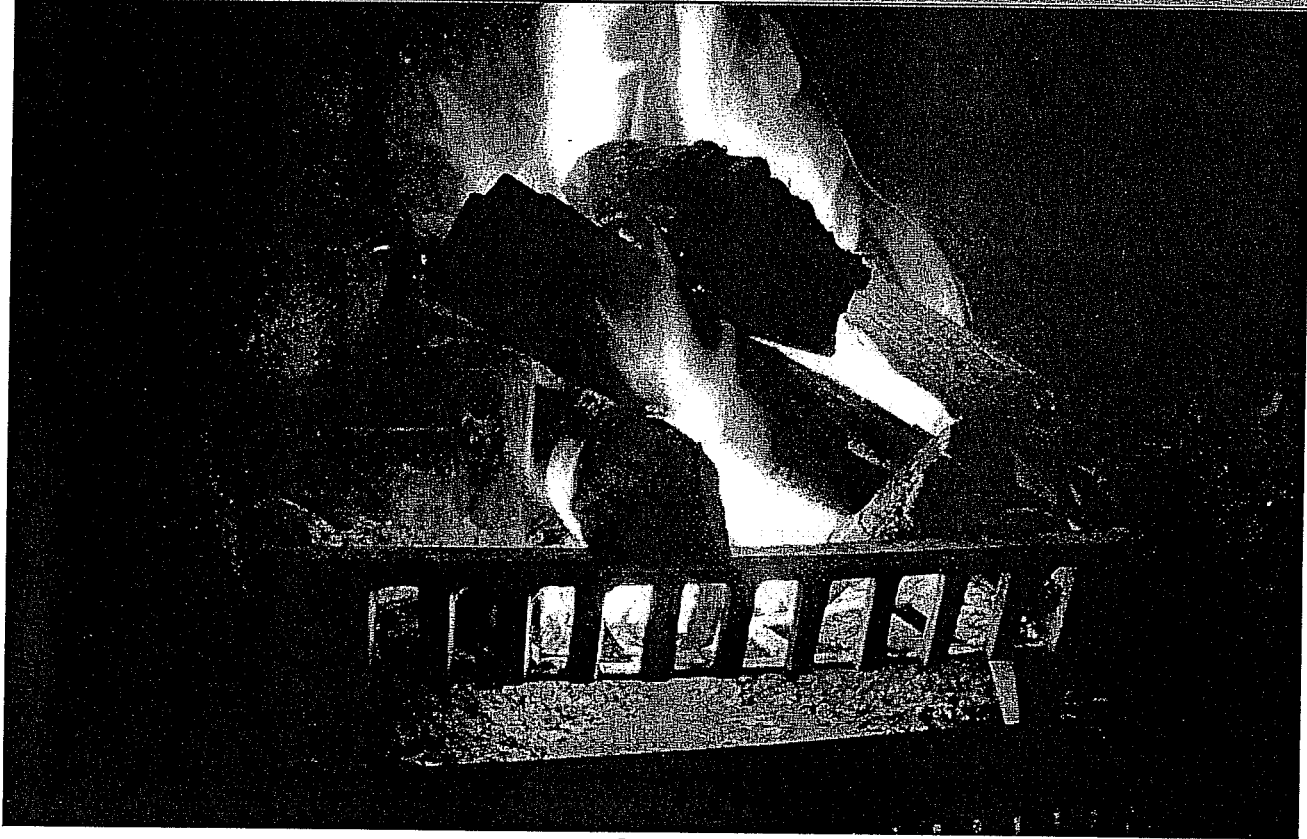
Blower Door Test

- 1). 5 ACH in CZ 2
- 2). 3 ACH in CZ 3 & 4

N1104.1 – Lighting equipment: It is mandatory to have at least 75% LED or CFL bulbs.

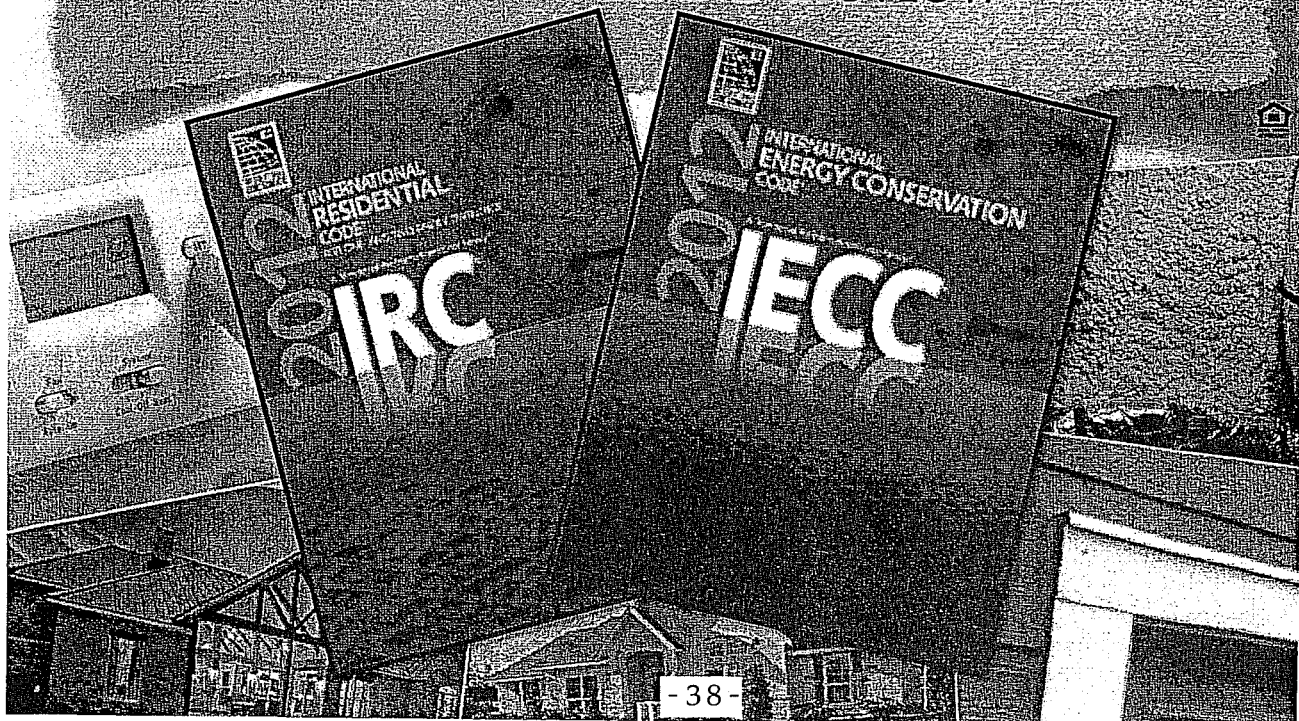


N1102.4.2 – Fireplaces: Wood burning fireplaces shall have tight fitting flue dampers & outdoor combustion air.



2012 Residential Codes

IRC & IECC Review





WORKSHOP ITEM #1.d

HEWITT TEXAS

MEMORANDUM

FROM: Lydia Lopez, City Secretary 
TO: Mayor and City Council
DATE: January 14, 2014
RE: General Election – May 10, 2014

Attached is an election calendar for the General Election to be held on May 10, 2014. The first day for filing for place on the ballot is **Wednesday, January 29, 2014**. The last day for filing will be **February 28, 2014 at 5:00 p.m.** Council positions up for election in 2014 are Mayor Pro Tem Wilbert “Walky” Wachtendorf, Council members Bill Fuller and Ronnie McNiel. Candidate packets will be available hard copy and online by January 22, 2014.

The proposed date set for ordering the election is **February 3, 2014**. Council has also discussed submitting a charter amendment for voters to consider term limits. Included for your review is a copy of a memo prepared by the City Manager with the final proposed Charter Amendment language discussed in October. If Council chooses to call a Special Election this could be done simultaneously along with the General Election.

HEWITT TEXAS

MEMORANDUM

FROM: Adam Miles, City Manager
TO: Mayor and City Council 
DATE: October 18, 2013
RE: Proposed Charter Amendment Language

Based on the input received from Council at the October 7th meeting, a ballot proposition to amend the City Charter would have voters consider term limits. In essence, voters would be asked to decide if future Council members would be allowed four (4) consecutive two (2) year full terms.

The following is suggested amended language for your consideration: [Language double underlined denotes changes to the current Charter.]

Sec. 2.2. Election of Council Members, Terms and Compensation.

The 2014 regular election and all subsequent regular elections shall be for a term of office of two (2) years. Starting with the regular election in 2014, no person may be elected to serve on the City Council for more than four (4) consecutive full terms. Terms served pursuant to elections conducted before the 2014 regular election shall not count towards the four consecutive term limitation.

A candidate for Council who has served four (4) consecutive terms in office must wait a minimum of one (1) term (approximately two [2] years) before becoming eligible to hold office again.

HEWITT TEXAS

COUNCIL AGENDA ITEM FORM

MEETING DATE: January 20, 2014

AGENDA ITEM #: 2

SUBMITTED BY: Lydia Lopez, City Secretary

ITEM DESCRIPTION:

Consider approval of minutes of the Council Dinner Workshop/Regular Meeting of January 6, 2014.

STAFF RECOMMENDATION/ITEM SUMMARY:

Attached is a draft copy of the minutes of the meeting. Please review and advise if any corrections are needed.

ATTACHMENTS:

Draft minutes

HEWITT TEXAS

MINUTES OF A CITY COUNCIL DINNER WORKSHOP/MEETING HEWITT CITY HALL – 105 TAMPICO DRIVE January 6, 2014 - 5:30/7:00 PM

Members Present: Mayor Ed Passalugo (presiding); Mayor Pro Tem Wilbert “Walky” Wachtendorf; Council Members Bill Fuller, James Vidrine, Travis Bailey, Ronnie McNiel, and Alex Snider

Staff Present: City Attorney Charlie Buenger, City Engineer (EIT) Miles Whitney, City Manager Adam Miles, Assistant City Manager James Barton, Library Director Waynette Ditto, Police Chief Jim Devlin, Fire Chief Lance Bracco, Director of Community Development Russ Sheffield, Deputy Police Chief Tuck Saunders, Finance Director Lee Garcia, and City Secretary Lydia Lopez

Staff Absent: City Engineer Bill Aston, HR/Civil Service Director Susana Garcia-Gilmore and Utilities Director James Black

Workshop – 5:30 PM

1. City Manager presented update on municipal business:
 - a. Report from City Engineer including review and discussion of Capital Improvement Projects.
 - b. Briefing and discussion was held concerning water and sewer rates with Dan Jackson.
 - c. Briefing and discussion concerning Public Safety Facility.
 - d. Briefing and discussion concerning Public Safety operations – Police & Fire.
 - e. Interviews of prospective members were held of the Parks and Beautification Committee.
2. Regular meeting agenda items were reviewed.
3. **NOTE: The Executive Session was held after the Regular Session.**
4. Adjourn. *A motion was made by Bill Fuller and seconded by Travis Bailey to adjourn the Dinner Workshop at 6:47 pm.*

REGULAR SESSION – 7:00 PM

1. **PLEDGE OF ALLEGIANCE TO THE U.S. FLAG** – Mayor Ed Passalugo invited Finance Director Lee Garcia to lead the Pledge of Allegiance.

2. **CONSIDER APPROVAL OF MINUTES OF THE COUNCIL DINNER WORKSHOP/MEETING OF December 2, 2013.** *A motion was made by Wilbert "Walky" Wachtendorf and seconded by Travis Bailey to approve the minutes as submitted but allow for corrections; all seven in favor, motion passed.*
3. **SPECIAL PRESENTATION TO OUTGOING MEMBERS OF THE PARKS & BEAUTIFICATION COMMITTEE.** Mayor Passalugo recognized Lydia Guerra and Tracy Smith for their outstanding service to the Parks & Beautification Committee.
4. **CONSIDER APPOINTMENTS TO THE PARKS & BEAUTIFICATION COMMITTEE.** Council commended applicants for their interest in volunteer service. *A motion was made by Bill Fuller and seconded by Ronnie McNiel to approve the appointment of Kevin Summers and Michael Brandon Fuller, all seven in favor, motion passed.*
5. **ADMINISTER OATH OF OFFICE TO NEWLY APPOINTED MEMBERS OF THE PARKS & BEAUTIFICATION COMMITTEE.** Mayor Passalugo administered the oath of office to Mr. Summers and Mr. Fuller.
6. **HEAR VISITORS ON MATTERS PERTAINING TO CITY BUSINESS.** Mr. Bobby Warren, 217 Bowie, appeared to express concern about future water supply, and suggested the city encourage xeriscaping. He also expressed appreciation to Council Member Vidrine for all his contributions to the City.
7. **CONSIDER AND TAKE APPROPRIATE ACTION CONCERNING AN ORDINANCE OF THE CITY OF HEWITT, TEXAS VACATING AND ABANDONING A 10 FOOT WIDE UTILITY EASEMENT ACROSS LOT 8, BLOCK 1, OF THE ROWAN OAK ADDITION IN THE CITY OF HEWITT, MCLENNAN COUNTY, TEXAS; PROVIDING A SAVINGS CLAUSE; REPEALING ORDINANCES IN CONFLICT THEREWITH; AND DECLARING AN EMERGENCY.** *A motion was made by James Vidrine and seconded by Travis Bailey to approve ordinance; all seven in favor, motion passed.*

ADDENDUM AGENDA ITEM

8. **CONSIDER AWARD OF BID FOR THE SPACESAVER PUBLIC SAFETY SYSTEM (RECORDS AND EVIDENCE STORAGE, LOCKERS, AND FIRE EQUIPMENT STORAGE RACKS) FOR POLICE AND FIRE FACILITY TO SOUTHWEST SOLUTIONS GROUP IN THE AMOUNT OF \$111,915.38.** *A motion was made by Alex Snider and seconded by Ronnie McNiel to approve; all seven in favor, motion passed.*

EXECUTIVE SESSION

Mayor Passalugo convened the Executive Session at 7:18 p.m. pursuant to the Open Meetings Act, Chapter 551, Texas Government Code to discuss the following:

- Pursuant to § 551.087 – Deliberation regarding Economic Development Negotiations.
- Pursuant to §551.074 - Personnel Matters.

A motion was made by Alex Snider and seconded by Travis Bailey to adjourn the Executive Session at 7:47 p.m., all seven in favor, motion passed.

9. **ADJOURN.** *A motion was made by Bill Fuller and seconded by Ronnie McNiel to adjourn to the meeting at 7:48 p.m., all seven in favor, motion passed.*

Approved: January 6, 2014

Lydia Lopez, City Secretary

Ed Passalugo, Mayor

HEWITT TEXAS

ITEM #3 – HEARING OF VISITORS

CITIZEN PARTICIPATION AT MEETINGS

1. All citizens are encouraged to discuss matters of concern with the staff and individual council members prior to placing items on the agenda. Many times this will expedite a resolution or allow proper investigation of the matter for presentation to the entire council.

NO CITIZEN NOR STAFF MEMBER MAY SPEAK NOR OTHERWISE INTERRUPT ANY MEETING UNTIL RECOGNIZED BY THE PRESIDING OFFICER.

2. To maintain decorum at public hearings, the mayor will ask the citizens present if they wish to speak for or against the item on the agenda. If so, they will be given an opportunity to do so at the proper time, when recognized by the chair. If more than five citizens wish to address the council on any single agenda item, those citizens are advised to select spokespersons to present their case.
3. Citizens who wish to bring up a matter that pertains to city business or address an item on the agenda may do so, but only under the agenda item "Hear Visitors." **The council is prohibited by law from discussing or acting on any item that has not been posted on the agenda.**
4. **Citizens addressing the city council on items not on the agenda shall be limited to five minutes each. Total time for presentations on any one item or topic shall be limited to twenty-five minutes. The city council members shall not enter into discussion on any subject not properly placed on the agenda; however, the council members may ask questions for clarification purposes.**
5. As a general rule, citizens may not participate in the discussion of the council workshop session.

HEWITT TEXAS

COUNCIL AGENDA ITEM FORM

MEETING DATE: January 20, 2014

AGENDA ITEM #: 4

SUBMITTED BY: Lydia Lopez, City Secretary

ITEM DESCRIPTION:

Consider appointment of Municipal Court Judge.

STAFF RECOMMENDATION/ITEM SUMMARY:

Per the City Charter the Municipal Court Judge must be appointed each year. Dan Francis has agreed to serve if reappointed. Dan has been our Judge for several years; he does an excellent job and has a great working relationship with our Court personnel. Staff recommends approval of his appointment.

ATTACHMENTS:

None

HEWITT TEXAS

COUNCIL AGENDA ITEM FORM

MEETING DATE: January 20, 2014

AGENDA ITEM #: 5

SUBMITTED BY: Lydia Lopez, City Secretary

ITEM DESCRIPTION:

Consider reappointment to the Parks & Beautification Committee.

STAFF RECOMMENDATION/ITEM SUMMARY:

Farrah Burns has agreed to serve another term on the Committee. She is in good standing and staff recommends approval of this item.

ATTACHMENTS:

Council, Boards and Commissions Roster

HEWITT TEXAS

COUNCIL AGENDA ITEM FORM

MEETING DATE: January 20, 2014

AGENDA ITEM #: 6

SUBMITTED BY: Susana Garcia-Gilmore, Human Resources/Civil Service Director

ITEM DESCRIPTION:

Confirm reappointment of Greg Davis to the Police Officers' Civil Service Commission as recommended by the City Manager.

STAFF RECOMMENDATION/ITEM SUMMARY:

Civil Service Commissioner Greg Davis has agreed to serve another term. The initial terms were staggered. Mr. Davis has served a total of five years as commissioner and is in good standing. If confirmed this will be his second consecutive appointment and the term will be for three years.

ATTACHMENTS:

Commission roster

Civil Service Commission

Member	Appointment Date	Reappointment	Term Expires
David Buckles	01/05/2009	02/06/2012	02/2015
Greg Davis	01/05/2009	01/17/2011	01/2014
Adam Feind	02/02/2009	01/04/2010 01/07/2013	02/2016

NOTE: Members were officially sworn in office on February 16, 2009.

Past:

Appointment Date

Resigned:

HEWITT TEXAS

COUNCIL AGENDA ITEM FORM

MEETING DATE: January 20, 2014

AGENDA ITEM #: 7

SUBMITTED BY: Lance Bracco, Fire Chief

ITEM DESCRIPTION:

Authorize the City Manager to negotiate and execute a contract with Mike Pietsch, P.E., Consulting Services, Inc. in conjunction with the City's ISO rating.

STAFF RECOMMENDATION/ITEM SUMMARY:

The Fire Department has worked with Mike Peitch concerning the possibility of lowering Hewitt's ISO (Insurance Services Office) rating. This rating is part of the formula used by insurance companies to set their rates for homeowners insurance. Over the past few years Hewitt has worked to implement strategies recommended by Mr. Pietch's firm during his last visit. At this time, Mr. Pietch believes Hewitt is prepared to request a new survey of our community by ISO. Approval of this item would authorize the City Manager to enter into a contract with Mr. Pietch for his services during this process. As part of the agreement, he will conduct a pre-survey of our readiness and then assist the ISO in surveying the City of Hewitt. The total cost of this contract is not to exceed \$14,500.00.

ATTACHMENTS:

Proposal



Assisting Communities
With Their ISO Rating

Mike Pietsch, P.E. Consulting Services, Inc.

3101 S. Country Club Rd.
Garland, TX 75043-1311
972.271.3292 Phone
214.728.6507 Cell
972.840.6665 Fax
michaelpietsch@tx.rr.com

January 10, 2014

Mr. Lance Bracco
Fire Chief
City of Hewitt
P.O. Box
Hewitt, TX 76643

Dear Chief Bracco:

Attached is a proposal for Mike Pietsch, P.E. Consulting Services, Inc. to perform their consulting services in conjunction with the City of Hewitt's ISO rating. The services outlined below would be required to ***Assist with the ISO Survey by Completing the ISO Pre-Survey Packet and then Transferring the Information to the ISO Field Representative.***

The ISO pre-survey packet requires an extensive amount of support data to document the answers the City of Hewitt must provide via this packet. It will save the City Officials serving the City of Hewitt a considerable amount of time if I am utilized to assist in filling out this packet.

I should be assisting the ISO Field Representative during the entire survey. Since I trained four of the six ISO Field Representatives doing surveys in Texas, I know what is required. This will eliminate any confusion between the City of Hewitt and the ISO Field Representative. The information transfer will proceed effortlessly if I am involved. My involvement will save the City Officials serving the City of Hewitt countless staff-hours and allow them to concentrate on their normal daily activities.

This proposal includes 2 site visits. The first site visit will be to assimilate the required support data for ISO. The second site visit will be to present this information to ISO.

The total of time and costs reflect actual consultant fee expenses. If you have any questions or need other information, please let me know.

Sincerely yours,

W. Michael Pietsch, P.E.
Civil Engineer

WMP/spp

PROPOSAL

TO
PROVIDE
CONSULTING SERVICES

TO

THE CITY OF HEWITT

ASSIST WITH ISO SURVEY
(Complete Pre-Survey Packet and Transfer Information to ISO)

BY

MIKE PIETSCH, P.E. CONSULTING SERVICES, INC.

OF

GARLAND, TEXAS

January 10, 2014

The following is a proposed estimate of the time and costs that would be associated with a consulting project with **Mike Pietsch, P.E. Consulting Services, Inc.** for the City of Hewitt. The consulting team will consist of Mike Pietsch, P.E.

SCOPE OF CONSULTING SERVICES

Complete the ISO pre-survey packet then document and present the answers to the questions presented in ISO's pre-survey packet. The ISO survey will cover the areas described below.

- **ISO's Needed Fire Flow Report**
- **Fire Department:**
 - Apparatus Inventories
 - Pump Tests
 - Manning
 - Training
 - Fire Station Locations
 - Locating apparatus to maximize the grading
 - Distribution of companies
 - Fire Service Communications
 - Number of telephone lines
 - Number of operators
 - Dispatch circuits
 - Emergency power
 - Supervision of circuits
 - Method of dispatch
- **Water Department:**
 - Supply Facilities
 - Hydrant Distribution
 - Hydrant Inspection
 - Flow Testing
- **Texas Addendum:**
 - Fire Marshal
 - Codes
 - Staffing
 - Certifications
 - Training

- Building Official
 - Codes
 - Staffing
 - Certifications
 - Training
- Attendance at Fireman's Training School

TIME AND COST REQUIREMENTS

- Completing ISO's Pre-Survey Information at Home Office \$ 9,500
- Transferring Information to ISO \$ 3,500
- Expenses \$ 1,500

Total \$ 14,500

The total cost to The City of Hewitt will not exceed \$14,500 to assist with the ISO re-evaluation for the City of Hewitt by completing ISO's Pre-Survey Packets and then assisting with the Transfer of Information to ISO.

This proposal includes 2 site visits.

PAYMENT AGREEMENT:

The City of Hewitt agrees to pay Mike Pietsch, P.E. Consulting Services, Inc. upon the conclusion of the ISO survey.

Submitted by:

W. Michael Pietsch, P.E.
Civil Engineer

**Mike Pietsch, P.E. Consulting Services, Inc.
3101 S. Country Club Rd.
Garland, TX 75043-1311
Phone: 972-271-3292 (Office) 214-728-6507 (Cell)
Fax: 972-840-6665
Email: michaelpietsch@tx.rr.com**

**Proposal – City of Hewitt
Assist with ISO Survey
(Complete Pre-Survey Packet and Transfer Information to ISO)**



Assisting Communities
With Their ISO Rating

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Phases II and III – Prepare Pre-Survey Packet and Assist with Information Transfer to ISO

January 10, 2014

City of Hewitt
C/O Mr. Lance Bracco
Fire Chief
P.O. Box 610
Hewitt, TX 76643

Dear Chief Bracco: Attached is a **CONTRACT/AGREEMENT** for Mike Pietsch, P.E. Consulting Services, Inc. (Consultant) to perform their consulting services in conjunction with the City of Hewitt's (the City) ISO rating.

This CONTRACT/AGREEMENT is specifically entered into with the Consultant and the City to complete Phases II and III (Prepare Pre-Survey Packet and Assist with Information Transfer to ISO for the City of Hewitt) for a cost not to exceed \$14,500.

The Scope of Services is described in the proposal submitted to the City of Hewitt.

Payment Agreement: The City of Hewitt agrees to pay Mike Pietsch, P.E. Consulting Services, Inc. upon the conclusion the consulting project. \$10,000 will be invoiced when the ISO field survey commences.

Accepted: _____
Signature of Authorized Representative Title Date
For the City of Hewitt

Printed Name

Accepted: _____
Signature of Authorized Representative Title Date
For Mike Pietsch, P.E. Consulting Services, Inc.

Printed Name

**CONTRACT/AGREEMENT between the City of Hewitt and
Mike Pietsch, P.E. Consulting Services, Inc.
Provide Consulting Services to Sustain the City of Hewitt's ISO Classification**