

**Specialty Home Inspections
Presents**



**A Home Inspection Report On
10915 Langdon Lane, Houston, TX
Sold by Sylvia Reyes, Listed By**



Specialty Home Inspections

www.SpecialtyInspections.com

Sunday, December 27, 2020

Johnathan Dominguez
Home Buyer
Houston, Texas

Dear Johnathan:

Thank you for selecting our company for your inspection needs. I enjoyed working with you to develop the attached deficiency report. Attached you will find your formal home inspection report as per current TREC guidelines. Please review the report and if all is well noted, you may forward the report to your Realtor and/or other party that is assisting you in the home buying process. Please note that the home inspection is part of your due diligence as noted on the TREC cover of this report and additional investigations may be necessary during your option period at which you may find additional issues.

If you have any questions please feel free to call me.

Yours Truly

A handwritten signature in black ink, appearing to read "Genaro Lopez". The signature is fluid and cursive, with a large initial "G" and "L".

Genaro Lopez
Professional Inspector No. 3078

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Specialty Inspection Services

2219 Shelby Park
Katy, TX 77450

Phone: (281)477-0893

Fax:

INVOICE

CLIENT'S NAME: Johnathan Dominguez TX
--

INVOICE NUMBER	GL20201227-01
INVOICE DATE	December 27, 2020
TERMS	Due on receipt

INSPECTION DESCRIPTION	PRICE	AMOUNT
Standard Inspection	\$350.00	\$350.00
PAYMENTS: 12/27/2020	 (\$350.00)	 (\$350.00)
	SUBTOTAL	\$350.00
	TAX	\$0.00
	TOTAL	\$350.00
	BALANCE DUE	\$0.00

THANK YOU FOR CHOOSING OUR COMPANY FOR YOUR INSPECTIONS!

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PROPERTY INSPECTION REPORT

Prepared For: Johnathan Dominguez
(Name of Client)

Concerning: 10915 Langdon Lane, Houston, TX 77072
(Address or Other Identification of Inspected Property)

By: Genaro Lopez, Lic #3078 12/27/2020
(Name and License Number of Inspector) (Date)

(Name, License Number of Sponsoring Inspector)

PURPOSE, LIMITATIONS AND INSPECTOR / CLIENT RESPONSIBILITIES

This property inspection report may include an inspection agreement (contract), addenda, and other information related to property conditions. If any item or comment is unclear, you should ask the inspector to clarify the findings. It is important that you carefully read ALL of this information.

This inspection is subject to the rules ("Rules") of the Texas Real Estate Commission ("TREC"), which can be found at www.trec.texas.gov.

The TREC Standards of Practice (Sections 535.227-535.233 of the Rules) are the minimum standards for inspections by TREC-licensed inspectors. An inspection addresses only those components and conditions that are present, visible, and accessible at the time of the inspection. While there may be other parts, components or systems present, only those items specifically noted as being inspected were inspected. The inspector is NOT required to turn on decommissioned equipment, systems, utility services or apply an open flame or light a pilot to operate any appliance. The inspector is NOT required to climb over obstacles, move furnishings or stored items. The inspection report may address issues that are code-based or may refer to a particular code; however, this is NOT a code compliance inspection and does NOT verify compliance with manufacturer's installation instructions. The inspection does NOT imply insurability or warrantability of the structure or its components. Although some safety issues may be addressed in this report, this inspection is NOT a safety/code inspection, and the inspector is NOT required to identify all potential hazards.

In this report, the inspector shall indicate, by checking the appropriate boxes on the form, whether each item was inspected, not inspected, not present or deficient and explain the findings in the corresponding section in the body of the report form. The inspector must check the Deficient (D) box if a condition exists that adversely and materially affects the performance of a system or component or constitutes a hazard to life, limb or property as specified by the TREC Standards of Practice. General deficiencies include inoperability, material distress, water penetration, damage, deterioration, missing components, and unsuitable installation. Comments may be provided by the inspector whether or not an item is deemed deficient. The inspector is not required to prioritize or emphasize the importance of one deficiency over another.

Some items reported may be considered life-safety upgrades to the property. For more information, refer to Texas Real Estate Consumer Notice Concerning Recognized Hazards or Deficiencies below.

THIS PROPERTY INSPECTION IS NOT A TECHNICALLY EXHAUSTIVE INSPECTION OF THE STRUCTURE, SYSTEMS OR COMPONENTS. The inspection may not reveal all deficiencies. A real estate inspection helps to reduce some of the risk involved in purchasing a home, but it cannot eliminate these risks, nor can the inspection anticipate future events or changes in performance due to changes in use or occupancy. It is recommended that you obtain as much information as is available about this property, including any seller's disclosures, previous inspection reports, engineering reports, building/remodeling permits, and reports performed for or by relocation companies, municipal inspection departments, lenders, insurers, and appraisers. You should also attempt to determine whether repairs, renovation, remodeling, additions, or

other such activities have taken place at this property. It is not the inspector's responsibility to confirm that information obtained from these sources is complete or accurate or that this inspection is consistent with the opinions expressed in previous or future reports.

ITEMS IDENTIFIED IN THE REPORT DO NOT OBLIGATE ANY PARTY TO MAKE REPAIRS OR TAKE OTHER ACTIONS, NOR IS THE PURCHASER REQUIRED TO REQUEST THAT THE SELLER TAKE ANY ACTION. When a deficiency is reported, it is the client's responsibility to obtain further evaluations and/or cost estimates from qualified service professionals. Any such follow-up should take place prior to the expiration of any time limitations such as option periods. Evaluations by qualified tradesmen may lead to the discovery of additional deficiencies which may involve additional repair costs. Failure to address deficiencies or comments noted in this report may lead to further damage of the structure or systems and add to the original repair costs. The inspector is not required to provide follow-up services to verify that proper repairs have been made.

Property conditions change with time and use. For example, mechanical devices can fail at any time, plumbing gaskets and seals may crack if the appliance or plumbing fixture is not used often, roof leaks can occur at any time regardless of the apparent condition of the roof, and the performance of the structure and the systems may change due to changes in use or occupancy, effects of weather, etc. These changes or repairs made to the structure after the inspection may render information contained herein obsolete or invalid. This report is provided for the specific benefit of the client named above and is based on observations at the time of the inspection. If you did not hire the inspector yourself, reliance on this report may provide incomplete or outdated information. Repairs, professional opinions or additional inspection reports may affect the meaning of the information in this report. It is recommended that you hire a licensed inspector to perform an inspection to meet your specific needs and to provide you with current information concerning this property.

TEXAS REAL ESTATE CONSUMER NOTICE CONCERNING HAZARDS OR DEFICIENCIES

Each year, Texans sustain property damage and are injured by accidents in the home. While some accidents may not be avoidable, many other accidents, injuries, and deaths may be avoided through the identification and repair of certain hazardous conditions. Examples of such hazards include:

- malfunctioning, improperly installed or missing ground fault circuit protection (GFCI) devices for electrical receptacles in garages, bathroom, kitchens, and exterior areas;
- malfunctioning arc fault protection (AFCI) devices;
- ordinary glass in locations where modern construction techniques call for safety glass;
- malfunctioning or lack of fire safety features such as, smoke alarms, fire-rated doors in certain locations, and functional emergency escape and rescue openings in bedrooms;
- malfunctioning carbon monoxide alarms;
- excessive spacing between balusters on stairways and porches;
- improperly installed appliances;
- improperly installed or defective safety devices; and
- lack of electrical bonding and grounding.
- lack of bonding on gas piping, including corrugated stainless steel tubing (CSST).

To ensure that consumers are informed of hazards such as these, the Texas Real Estate Commission (TREC) has adopted Standards of Practice requiring licensed inspectors to report these conditions as "Deficient" when performing an inspection for a buyer or seller, if they can be reasonably determined.

These conditions may not have violated building codes or common practices at the time of the construction of the home, or they may have been "grandfathered" because they were present prior to the adoption of codes prohibiting such conditions. While the TREC Standards of Practice do not require inspectors to perform a code compliance inspection, TREC considers the potential for injury or property loss from the hazards addressed in the Standards of Practice to be significant enough to warrant this notice.

Contract forms developed by TREC for use by its real estate licensees also inform the buyer of the right to have the home inspected and can provide an option clause permitting the buyer to terminate the contract within a specified time. Neither the Standards of Practice nor the TREC contract forms requires a seller to remedy conditions revealed by an inspection. The decision to correct a hazard or any deficiency identified in an inspection report is left to the parties to the contract for the sale or purchase of the home.

INFORMATION INCLUDED UNDER "ADDITIONAL INFORMATION PROVIDED BY INSPECTOR", OR PROVIDED AS AN ATTACHMENT WITH THE STANDARD FORM, IS NOT REQUIRED BY THE COMMISSION AND MAY CONTAIN CONTRACTUAL TERMS BETWEEN THE INSPECTOR AND YOU, AS THE CLIENT. THE COMMISSION DOES NOT REGULATE CONTRACTUAL TERMS BETWEEN PARTIES. IF YOU DO NOT UNDERSTAND THE EFFECT OF ANY CONTRACTUAL TERM CONTAINED IN THIS SECTION OR ANY ATTACHMENTS, CONSULT AN ATTORNEY.

ADDITIONAL INFORMATION PROVIDED BY INSPECTOR

Particulars

Present at Inspection: Buyer Selling Agent Listing Agent Occupant Inspector

Building Status: Vacant Owner Occupied Tenant Occupied Other

Weather Conditions: Fair Cloudy Rain Temp: 62 °

Utilities On: Yes No Water No Electricity No Gas All Electric

Special Notes: Home is all electric

Recommendations - Home Owners Warranty

HOME OWNERS WARRANTY RECOMMENDED: Inspector does not warranty any equipment or imply a type of guarantee or warranty, thus the buyer is encouraged and it is recommended to purchase a Home Owner's Warranty through his/her Realtor or from an insurer of his/her choice. Home warranty is an appliance service protection plan that covers the maintenance expenses associated with household items such as refrigerator, dishwasher, HVAC units, plumbing system, electrical wiring etc. Your home owner's insurance will insure against natural disasters such as fire and flood but it will NOT cover the maintenance and repair charges of appliances.

Visit the following web site to assist you in choosing the company that best meets your expectations and budget: P.S. I found Choice Home Warranty to deny claims using unfounded excuses or exclusions that defy the reason for purchasing a warranty.

<http://www.homewarrantyreviews.com/>

Buyer is directed to read the last pages and any addendum to this report which includes important recommendations, exclusions and disclaimers which constitute part of this report. Please note that the scope of this inspection is limited to the present condition of the Structural and Mechanical components of the subject property.

The report does not imply or include any other environmental type of inspection, investigation or condition present in the subject property such as MOLD, FUNGI, LEAD HAZARDS, ASBESTOS, EMF, WOOD DESTROYING INSECTS, RODENTS, VARMINTS, ANTS, or any other type of BIO HAZARD CONDITION.

I=Inspected

NI=Not Inspected

NP=Not Present

D=Deficient

I NI NP D

I. STRUCTURAL SYSTEMS

A. Foundations

Type of Foundation(s): Slab on Grade Pier and Beam Combination

Comments:

1. Home is a one story home with an attached garage.
2. There is evidence of foundation settlement, the stress cracks on the brick veneer have been patched.



Foundation Repairs:

3. Evidence of recent foundation repairs



4. Buyer should be provided with a pier placement plan indicating the extent of foundation repairs performed.

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5. Buyer should have the warranty properly transferred at closing by the owner at the title company, usually there is a fee attached to such a transfer that is normally paid by the seller.

Exterior Perimeter Beam:

- Waffling
- Cracked Corners
- Exposed Tendons
- Exposed Rebar
- Over Extended Foundation
- All perimeter beam was not visible

Signs of Structural Movement or Settling **None**

- Cracks on brick veneer
- Cracks in exposed concrete floors
- Floors not level
- Separations at the expansion joint
- Cracks in interior wall(s)
- Cracks on ceilings
- Tape Separations

Performance Opinion

- The foundation appears to be performing the function intended, the foundation is supporting the walls properly and serving as a base for the structure, no detrimental conditions noted at the time of the inspection.
- Structural movement and/or settling noted; however, the foundation is supporting the structure at this time and no immediate repairs recommended.
- Signs of structural movement noted; suggest that an expert in this field be consulted for further evaluation of the structure and to provide suggestions as to what, if any, corrective actions should be taken.
- Foundation is in need of repairs at the extended part of the perimeter beam
- Foundation is in need of immediate repairs at the exposed tendons by a qualified post tension technician.
- Foundation is in need of immediate repairs and leveling.

Additional information:

6. The foundation on the home appears to be a post tension type of foundation.
7. In the Houston area since the 60's, we pretty much have had all slab foundations

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in new home construction with mostly re-bar steel reinforcement slabs but also with many post tension slabs. In the last thirty or so years the Post Tensioned Slab has become more and more popular.

8. Post-tensioning is a method of reinforcing (strengthening) a concrete slab on grade with high-strength steel strands. These strands or cables are also referred to as tendons. High-tension steel tendons enable slab foundations to withstand the stresses of expansive and compressive soil conditions that are prevalent in Texas.



9. Houston and most of Texas is well known for their shifting and expansive clay soils. During the hot, dry summer of the Greater Houston area, clay soils shrink, and during extended periods of wet weather soil naturally tends to expand. Since the slab foundation itself protects the soil directly beneath from wetting and drying, most swelling and shrinking takes place at the edges of the foundation.
10. Photos below are of what a modern foundation is composed of; modern day foundations have cables running across it, then the concrete is poured over the cables leaving the tips of the cables along the edges exposed; the cables are stretched (Tensioned) then the cable tips that are called tendons are cut and sealed;

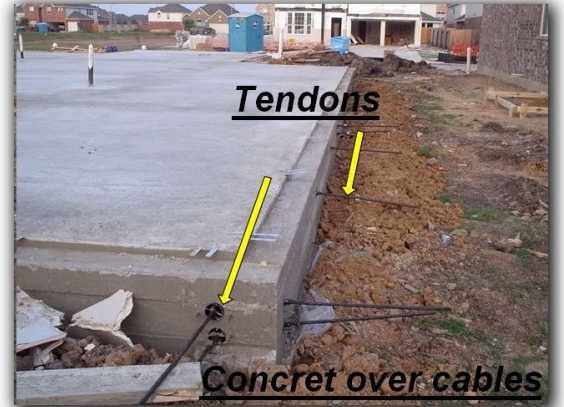
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Note 1: Weather conditions, drainage, leakage and other adverse factors are able to effect structures, and differential movements are likely to occur. The inspectors opinion is based on visual observations of accessible and unobstructed areas of the structure at the time of the inspection. Future performance of the structure cannot be predicted or warranted.

Note 2: It is important to note, this was not a structural engineering survey nor was any specialized testing done of any sub-slab plumbing systems during this limited visual inspection, as these are specialized processes requiring excavation. In the event that structural movement is noted, client is advised to consult with a Structural Engineer who can isolate and identify causes, and determine what corrective steps, if any, should be considered to either correct and/or stop structural movement.

SUGGESTED FOUNDATION MAINTENANCE & CARE - Proper drainage and moisture maintenance to all types of foundations due to the expansive nature of the area load bearing soils. Drainage must be directed away from all sides of the foundation with grade slopes. In most cases, floor coverings and/or stored articles prevent recognition of signs of settlement - cracking in all but the most severe cases.

B. Grading and Drainage

Comments:

High Soil:

- 11. Various points around the perimeter beam of the foundation the soil is too high, it must be at least six inches from the ground to avoid water intrusion and/or pest infestation.

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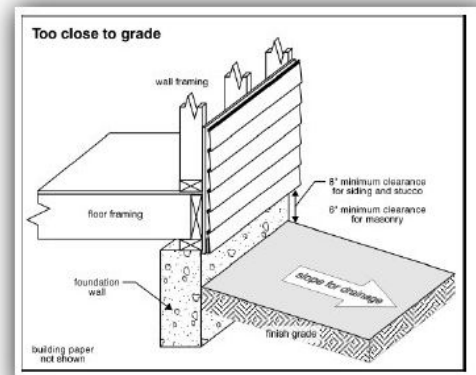
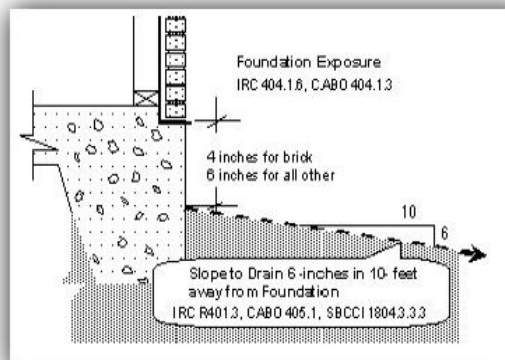
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12. Note: Any area where the ground or grade does not slope away from the structure is to be considered an area of improper drainage. Six inches per 10 feet.



Site Drainage:

13.R401.3 Drainage: Surface drainage shall be diverted to a storm sewer conveyance or other approved point of collection so as to not create a hazard. Lots shall be graded so as to drain surface water away from foundation walls. The grade away from foundation walls shall fall a minimum of 6 inches within the first 10 feet.

14. Ponding noted at several points around the foundation or near the foundation all low spots should be filled, compacted and caused to drain away from the foundation to avoid future foundation settlement issues.

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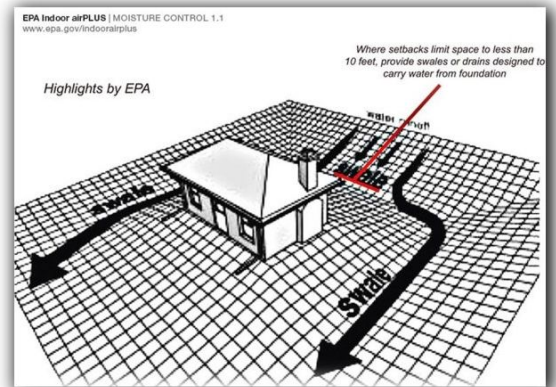
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15. It is recommended to install site drains to draw the water on the yard away from the foundation and towards the street as required by code.

Other Homes Shown Below:



See curve termination on another home:



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16. The Texas Administrative RULE §304.32

Additional Information:

Performance Standards for Yard Grading

(a) Yards shall have grades and swales that provide for proper drainage away from the home in accordance with the Code or other governmental regulations.

If the grades or swales fail to meet the standard stated in this subsection, the owner shall take such action as is necessary to bring the variance within the standard.

The homeowner shall maintain the drainage pattern and protect the grading contours from erosion, blockage, over-saturation or any other changes.

(b) Settling or sinking of soil shall not interfere with the drainage patterns of the lot or have a vertical depth of six inches or more if it does, the owner should make the proper repairs for proper drainage.

C. Roof Covering Materials

Type(s) of Roof Covering: Asphalt Shingles

Viewed From: Ground

Type of Roof:

17. The home has a new laminated composition roof shingle covering over wood decking.



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18. Shingles were not raised to count the nail order, it damages the shingle glue tab adhesion which is designed for only one seal.



Tree Limbs:

19. There are various tree limbs that are in contact with the roof covering, all tree limbs must be at least six feet from the roof/shingles to avoid damage.



Conclusion:

20. Overall the roof covering is in acceptable conditions at the time of the inspection.

21. Note: The inspector, as allowed by TREC guidelines, viewed the roof covering from the ground level assisted by a 8x telescopic photo lens to provide his opinion. In the event the buyer desires a more detailed roof inspection, the inspector recommends a second opinion by a qualified roofer who can do it viewing the roof from the top of the roof and who may also provide the buyer with an estimated life expectancy of the existing roof covering

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D. Roof Structures and Attics

Viewed From: Some areas Obstructed from view

Approximate Average Depth of Insulation: 0-6 inches

Meets current code Does not meet current code.

Approximate Average Thickness of Vertical Insulation: n/a 4 inches 0-4 in

Comments:

Traditional Attic Area:

22. Home has a drop down folding ladder leading to the attic.

23. The attic ladder is in the garage.



Landing:

24. Missing a clear landing at the top of the stairs as required by code.

25.R312.1.1 Landings for stairways. There shall be a floor or landing at the top and bottom of each stairway.

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Decking & Work Platform:

26. Improper decking methods, attic decking must be solid plywood with no obstructions in front of the furnace as per code and as seen on the left lower photo below.



27. Improper decking materials, must have 3/4 inch plywood that is unobstructed to the furnace and at least 24 inches wide.

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Insulation:

28. The insulation does not meet R-38 code requirements which is at least ten inches of insulation in all parts of the attic.



E. Walls (Interior and Exterior)

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Exterior Walls:

29. The home had the exterior finishes as follows:

- Siding Materials Brick Stone Wood Wood byproducts Stucco
 Vinyl Aluminum Asbestos Cement Board Other



30. There are some patches on the brick as shown on the foundation section of this report and as seen below that indicated that the brick had stress cracks and are now cosmetic.



31. The brick veneer siding is in generally good condition.

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Expansion Joints:

32. Expansion Joints are present and properly sealed.



Interior Walls:

33. The interior walls have no significant deficiencies.

34. The interior walls have been recently prepared for sale by painting and making cosmetic flaw, thus limited viewing of present detrimental conditions.

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F. Ceilings and Floors

Comments:

Ceilings:

35. No significant issues viewed.

Floor Coverings:

36. Floor coverings are made up of carpet and a type of what appears to be laminated wood flooring and ceramic floor coverings.

37. The ceramic flooring in the family room has a section that is "soft" and has lost its seal.



38. The flooring in the kitchen and family room are in good condition.

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39. The flooring in the bedroom are also in fair condition as viewed at random.

40. The wood flooring in one room has been painted and looks like it has some water damage, the owner should disclose if the home has flooded.



41. **Note:** The inspector is not an expert on flooring types, when it states a laminated floor covering it may be the traditional laminte that sells for \$.50 cents per sf or the more complex engineered flooring that sells for \$3 per sf.

42. When the inspector speaks about the ceramic flooring it may be a new modern porcelain floor coverings or other more expensive type of flooring.

43. If the buyer wants to have more accurate information on the type of flooring in the home, it is recommended that he consult with a flooring expert.

G. Doors (Interior and Exterior)

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Garage Doors

Type: Aluminum Wood Fiberglass Doors / panels are damaged

- 44. Garage door frame wood trim is too close to the ground, must be cut 45 degrees, painted at the base (sealed) and be two inches above the concrete floor to avoid water rot;



Other homes shown below:



Interior Doors:

- 45. All interior doors were tested and operated properly.
- 46. Door going into the garage is not a fire rated door as per code.

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H. Windows

Comments:

Type of Windows:

47. Home has most of the windows with a single pane.



48. The home has some upgraded double pane windows and low e as per code.



Window Screens:

49. Missing some window screens.

Code of Rescue Openings:

50. R310.1 Emergency escape and rescue required. ... every sleeping room shall

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have at least one operable emergency escape and rescue window or exterior door opening for emergency escape and rescue.

51.R310.1.4 Operational constraints. Emergency escape and rescue openings shall be operational from the inside of the room without the use of keys or tools.

I. Fireplaces and Chimneys

Comments:

J. Porches, Balconies, Decks, and Carports

Comments:

Rear Porch Area:

52. Home has a porch at the rear of the home.



53. The porch area is covered.

54. The porch has proper joist hangers.

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55. The roof is a single ply modified bitumen which is the correct type and is new.

K. Other

Comments:

56. Wood perimeter fence is in need of repairs at various places



57. Some of the fence has minor wind damage.

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II. ELECTRICAL SYSTEMS

A. Service Entrance and Panels

Comments:

Service: Overhead Service Underground Service Meets code

Type of Wire Into Home: Copper Aluminum Mixed

Main Electrical Disconnect Panel:

58. Home is serviced by a smart meter.



59. The main panel is missing a main breaker.

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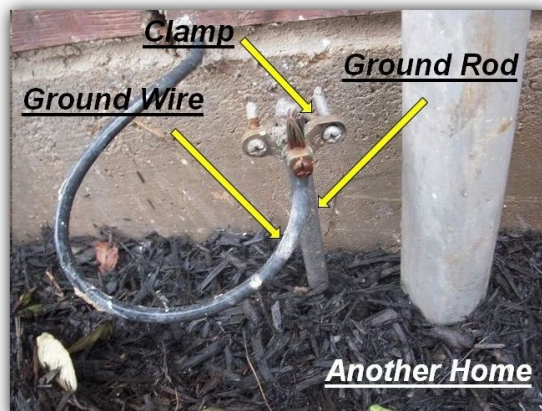
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60. Ground wire is not properly secured to the ground rod clamp, it is not visible.

61. Ground rod must be above ground and visible, the ground rod clamp must be visible, the ground rod should extend at least six inches above the ground to be able to inspect and maintain the ground rod clamp, see photo below of another home with a properly installed ground rod.



Labeling of Breakers:

62. Main panel dead front cover is not fully labeled as per code.

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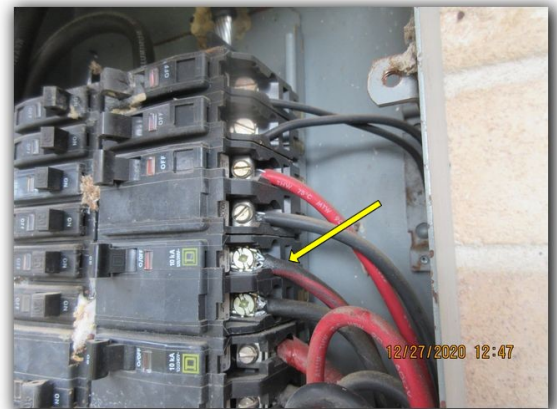
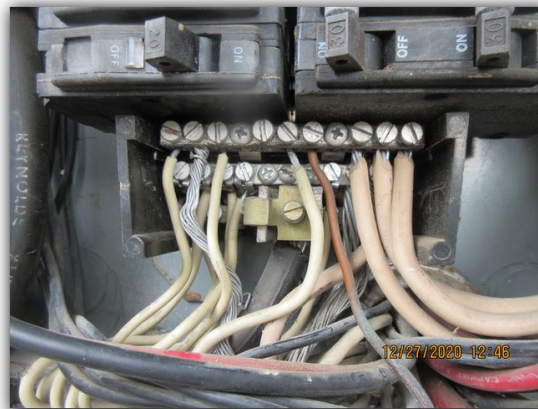
I	NI	NP	D
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Type of Wiring:

63. The main panel has aluminum wiring going into the home.

64. One leg of the 220 volt breaker appears to have been over heated.



65. The breakers are missing the anti-oxident on the aluminum wire at the connectors and breakers as per code.

66. The breakers are not for al/cu use.

Arc Fault Interrupters:

67. Missing arc fault interrupters as required by current code of 2008 and newer homes.

68. Code IRC 3802.11 requires arc fault interrupters in all circuits going into the

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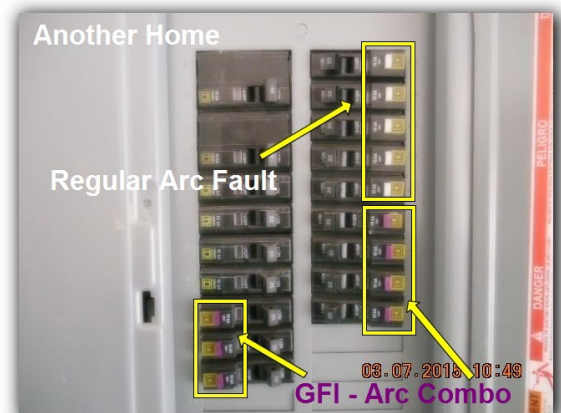
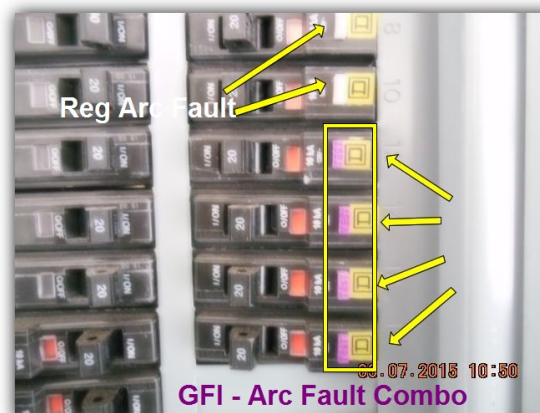
living area.

69. Home is missing arc fault protection on the GFI's as required by current code.



70. It is recommended that the breaker panel be replaced with one that has proper co/al breakers, main breaker and arc fault interrupters as per current code.

71. See another home below with proper dual purpose breaker (purple button).



The Arc Fault Circuit Interrupter

The “AFCI” is an arc fault circuit interrupter. AFCIs are newly-developed electrical devices designed to protect against fires caused by arcing faults in the home electrical wiring.

THE FIRE PROBLEM

Annually, over 40,000 fires are attributed to home electrical wiring. These fires result in

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over 350 deaths and over 1,400 injuries each year¹. Arcing faults are one of the major causes of these fires. When unwanted arcing occurs, it generates high temperatures that can ignite nearby combustibles such as wood, paper, and carpets.

Arcing faults often occur in damaged or deteriorated wires and cords. Some causes of damaged and deteriorated wiring include puncturing of wire insulation from picture hanging or cable staples, poorly installed outlets or switches, cords caught in doors or under furniture, furniture pushed against plugs in an outlet, natural aging, and cord exposure to heat vents and sunlight.

HOW THE AFCI WORKS

Conventional circuit breakers only respond to overloads and short circuits; so they do not protect against arcing conditions that produce erratic current flow. An AFCI is selective so that normal arcs do not cause it to trip. The AFCI circuitry continuously monitors current flow through the AFCI. AFCIs use unique current sensing circuitry to discriminate between normal and unwanted arcing conditions. Once an unwanted arcing condition is detected, the control circuitry in the AFCI trips the internal contacts, thus de-energizing the circuit and reducing the potential for a fire to occur.

An AFCI should not trip during normal arcing conditions, which can occur when a switch is opened or a plug is pulled from a receptacle. Presently, AFCIs are designed into conventional circuit breakers combining traditional overload and short-circuit protection with arc fault protection. AFCI circuit breakers (AFCIs) have a test button and look similar to ground fault circuit interrupter (GFCI) circuit breakers. Some designs combine GFCI and AFCI protection.

Additional AFCI design configurations are anticipated in the near future. It is important to note that AFCIs are designed to mitigate the effects of arcing faults but cannot eliminate them completely. In some cases, the initial arc may cause ignition prior to detection and circuit interruption by the AFCI.

The AFCI circuit breaker serves a dual purpose – not only will it shut off electricity in the event of an “arcing fault”, but it will also trip when a short circuit or an overload occurs. The AFCI circuit breaker provides protection for the branch circuit wiring and limited protection for power cords and extension cords. Single-pole, 15- and 20- ampere AFCI circuit breakers are presently available.

WHERE AFCIs SHOULD BE USED

The 1999 edition of the National Electrical Code, the model code for electrical wiring adopted by many local jurisdictions, requires AFCIs for receptacle outlets in bedrooms,

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effective January 1, 2002. Although the requirement is limited to only certain circuits in new residential construction, AFCIs should be considered for added protection in other circuits and for existing homes as well.

Older homes with aging and deteriorating wiring systems can especially benefit from the added protection of AFCIs. AFCIs should also be considered whenever adding or upgrading a panel box while using existing branch circuit conductors.

INSTALLING AFCIs

AFCI circuit breakers should be installed by a qualified electrician. The installer should follow the instructions accompanying the device and the panel box. In homes equipped with conventional circuit breakers rather than fuses, an AFCI circuit breaker may be installed in the panel box in place of the conventional circuit breaker to add arc protection to a branch circuit. Homes with fuses are limited to receptacle or portable-type AFCIs, which are expected to be available in the near future, or AFCI circuit breakers can be added in separate panel boxes next to the fuse panel box.

TESTING AN AFCI

AFCIs should be tested after installation to make sure they are working properly and protecting the circuit. Subsequently, AFCIs should be tested once a month to make sure they are working properly and providing protection from fires initiated by arcing faults.

A test button is located on the front of the device. The user should follow the instructions accompanying the device. If the device does not trip when tested, the AFCI is defective and should be replaced.

AFCIs vs. GFCIs

The AFCI should not be confused with the GFCI or ground fault circuit interrupter. The GFCI is designed to protect people from severe or fatal electric shocks while the AFCI protects against fires caused by arcing faults. The GFCI also can protect against some electrical fires by detecting arcing and other faults to ground but cannot detect hazardous across-the-line arcing faults that can cause fires.

A ground fault is an unintentional electric path diverting current to ground. Ground faults occur when current leaks from a circuit. How the current leaks is very important. If a person's body provides a path to ground for this leakage, the person could be injured, burned, severely shocked, or electrocuted.

The National Electrical Code requires GFCI protection for receptacles located outdoors;

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in bathrooms, garages, kitchens, crawl spaces and unfinished basements; and at certain locations such as near swimming pools. A combination AFCI and GFCI can be used to satisfy the NEC requirement for GFCI protection only if specifically marked as a combination device.

Ault, Singh, and Smith, "1996 Residential Fire Loss Estimates", October 1998, U.S. Consumer Product Safety Commission, Directorate for Epidemiology and Health Sciences

B. Branch Circuits, Connected Devices, and Fixtures

Type of Wiring: Copper Aluminum Mix

Comments:

Ground Fault Circuit Interrupt Safety Protection

72. Home is missing GFI protection in all wet areas as detailed below.

73. The GFI's in the kitchen are not made for co/al use.

Kitchen:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Partial	<input checked="" type="checkbox"/> Defective	
Entry Bath:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Partial	<input type="checkbox"/> Defective	<input checked="" type="checkbox"/> N/a
Master Bath:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Partial	<input checked="" type="checkbox"/> Defective	
Hall Baths:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Partial	<input checked="" type="checkbox"/> Defective	<input type="checkbox"/> N/a
Garage:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Partial	<input type="checkbox"/> Defective	<input type="checkbox"/> N/a
Exterior:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Partial	<input type="checkbox"/> Defective	

Smoke and Fire Alarms

74. Replace all batteries of existing smoke detectors

75. Smoke alarms are not present in each sleeping area

76. No smoke alarm in hallway

Fixtures:

77. Missing various luminaries (bulbs) in various light fixtures.

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78. The garage light fixtures, secondary are in need of repair.



79. Some light fixtures inoperable or in need of repair such as the front entry.

Receptacles:

80. Missing four prong 220 volt receptacle on the dryer electrical connection has the obsolete three prong receptacle.



81. Tested receptacles at random and no deficiencies were found.

Aluminum Wire:

82. Home has aluminum wire going into the living area, a violation of code. The home does not have proper Al/Co connectors. All switches, receptacles and connectors must be for use with Aluminum wire or Co/Al as required by code. All connectors installed must be approved for use with Aluminum wire.

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83. See: <http://inspectapedia.com/aluminum/aluminum.htm>

84. All of the connectors must be purple for use with aluminum wire, not red, black or yellow, see the photo below of the package as sold by hardware stores.



85. E3306.8 Aluminum and copper connections. Terminals and splicing connectors shall be approved for the material of the conductors joined. Conductors of dissimilar metals shall not be joined in a terminal or splicing connector where physical contact occurs between dissimilar conductors such as copper and aluminum, copper and copper-clad aluminum, or aluminum and copper-clad aluminum, except where the device is listed for the purpose and conditions of application. Materials such as inhibitors and compounds shall be suitable for the application and shall be of a type that will not adversely affect the conductors, installation or equipment.

86. E3902.3 CO/ALR receptacles. Receptacles rated at 20 amperes or less and directly connected to aluminum conductors shall be marked CO/ALR.

Confirmation of Repairs on Aluminum Wire:

87. When the receptacles, switches and connectors are replaced, the old receptacles, switches and connectors must be left next to the corrected area or under the light fixture or light switch including the attic, over the kitchen sink, vent hood, exterior etc.

88. The boxes of the new Co/Al components installed must be left next to the receptacle, switch or connector for the inspector to view.

89. The "map" of where the electrician replaced the components and the electrical certification with the electricians license number and signature must also be with the above

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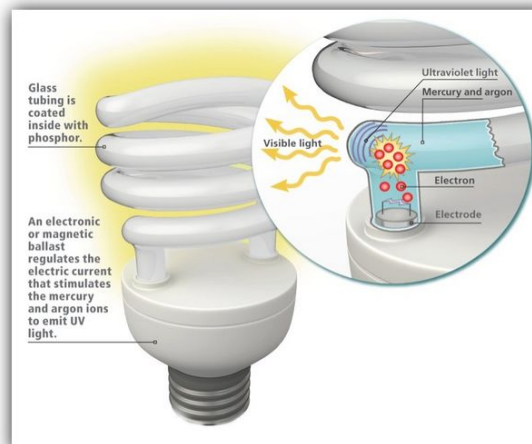
I NI NP D

- 90. Note 1: Some lenders will not finance homes with aluminum wire that has not been retrofitted.
- 91. Note 2: Some insurance companies will not insure homes with aluminum wire that has not been retrofitted.
- 92. The issue of properly repairing and upgrading the main panel to meet current code for aluminum wire should be agreed at this time to avoid surprises by the underwriter at the last minute.
- 93. All work above should be performed by a knowledgeable and licensed electrician who will personally be responsible for the completed work which will be inspected again.

Other homes shown below:



Special Note/Warning: (Compact Fluorescent lamps)



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From the Environmental Health Perspectives Web site:

With growing concern over energy use, much of the developed world has adopted compact fluorescent lamps (CFLs), which use 25–80% less energy and can last 3–25 times longer than regular incandescent bulbs.¹ A new study suggests that certain elements of these bulbs might be improved for safer use.²

Investigators measured ultraviolet (UV) radiation emissions from nine commercially available CFLs and observed cracks in the phosphor coating on each bulb that might allow UV leaks. “Phosphor is very rigid, so it’s not surprising it would crack [when applied to a CFL’s tight coils],” says coauthor Miriam Rafailovich, distinguished professor of materials science at the State University of New York at Stony Brook. She says long, straight fluorescent tubes don’t have these cracks.

The team exposed healthy human keratinocytes and dermal fibroblasts to the CFL with the highest UV emissions at a distance of 2.5 cm for 2 hours at a time. They also tested CFL exposure combined with titanium dioxide (TiO₂) nanoparticles, a catalyst. CFL exposure was associated with a slight increase in the formation of reactive oxygen species (ROS) in both cell types, reduced mitochondrial activity and cell proliferation in both cell types, and reduced migration velocity and collagen contraction in fibroblasts. These outcomes were greater in combined CFL/TiO₂ exposure scenarios.

But in contrast to media depictions of “skin-frying” CFLs, researchers are reluctant to draw conclusions about consumer risk on the basis of these findings. “The UV measurement procedures are not described, so one cannot evaluate the data,” says Mats-Olof Mattsson, a cell biology professor at the Austrian Institute of Technology. The authors also reported higher UV emissions than other studies have found^{3,4,5} and did not follow international measurement standards,⁶ he adds.

In vitro studies have limitations for assessing CFL impacts on skin because the intensity of light reaching the cells within skin is much less than the light intensity at the skin surface. Furthermore, says Harry Moseley, a photo biology professor at the University of Dundee, “Work carried out *in vitro* can be helpful to show the direct effect of UV radiation on the cells, [but] it doesn’t tell us how the body deals with any damage to the cells.”

Nevertheless, the study results are not inconsistent with published research.⁵ “When we have exposed people to [CFL] light, sensitive patients do get a sunburn, and a small proportion of normal people get a mild sunburn,” he

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says.

III. HEATING, VENTILATION AND AIR CONDITIONING SYSTEMS

A. Heating Equipment

Type of System: Central

Energy Source: Electric

Comments:

Location of Furnace:

94. Home has an electric furnace located in the attic area.

95. The furnace was active at the time of the inspection.



Service System:

96. ELECTRIC FURNACE: The furnace needs to be serviced prior to closing in order to validate most home owner's warranty requirement. The a/c technician must issue a certification that the system meet code and is heating properly and the heat strips are in good conditions.

B. Cooling Equipment

Type of System: Central - Air Conditioner

Comments:

97. Home has a central a/c system with a condenser on the exterior and an evaporator in the attic area, the typical split a/c system.

98. The system was active at the time of the inspection.

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Number of Units: One System



Performance of System:

99. The system was not cooling properly at the time of the inspection.

Performance Detail:

Unit No. 1	Supply Temp	66°	Return Temp	77	Differential	11°
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Exterior Condensing Unit:

100The condenser has insulation on the suction line.

101The condenser has been recently installed.

102The condenser has a disconnect as per code.

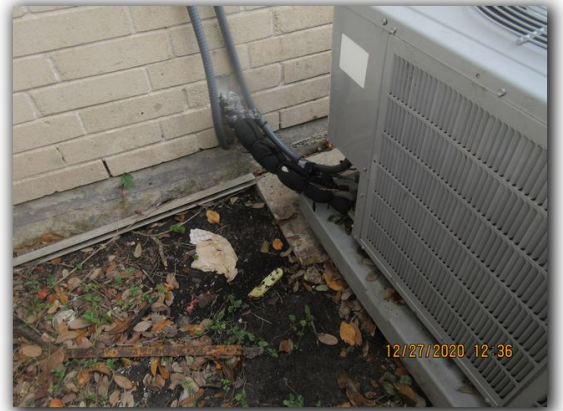
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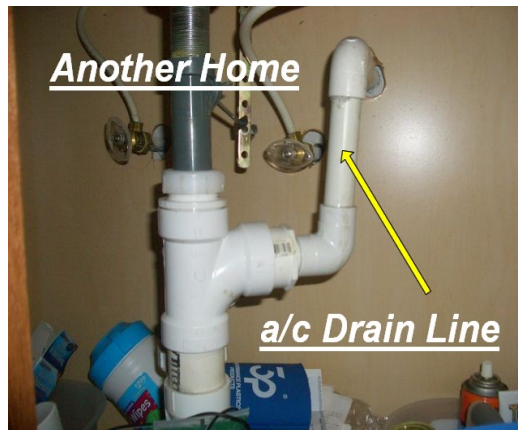


Primary Drain Line:

103The drain line is terminating to the plumbing drain system to avoid foundation settlement and attracting termites when dripping next to the foundation.

104The primary drain line is normally located under the cabinet in the bathroom as per code.

See other homes shown below:



105The main drain line is PVC which is good.

106The primary drain line must be cleared.

Evaporator, Secondary Drain Line & Pan:

107The drain pan is in good condition.

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108The drain pan is missing an energy cut off switch as per code.

109The drain pan has a secondary drain line connected, termination not confirmed.

110The secondary drain line was viewed at the soffit as per code.



111Note: Termination of the secondary drain line was not confirmed other than that reported above. The secondary drain lines normally run under the attic insulation and the whole run is not viewable.

Service System:

112The system must be serviced prior to closing in order that with most home owners warranty can become effective. The system should be certified by a licensed a/c technician indicating that the system is up to code and is operating properly.

113Buyer should receive a copy of the documentation for the service of the a/c system in order to validate the home owner's warranty requirements.

Home Warranty:

114Please note that certain home warranties such as **Choice Home Warranty** does not cover all repairs and in my case stated that the servicing was not done properly and denied a failed a/c compressor which is wrong.

C. Duct Systems, Chases, and Vents

Comments:

Type of Ducting: Flex Ducting Duct Board Metal

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115 Ducts must not be in contact with each or lay on top of the joists other or they will create condensation that is prone to mold and mildew issues.



116 The ducts must be elevated and supported from the rafters.

Other homes shown below;



117 Return air filter needs replacement

IV. PLUMBING SYSTEM

A. Plumbing Supply, Distribution Systems and Fixtures

Location of water meter: Front of Home

Location of main water supply valve: Front of Home

Static water pressure reading: 45 psi below 40 psi above 80 psi

Home was winterized Home needs to be winterized n/a

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Comments:

Water Source: Public Private **Sewer Type:** Public Private

Water Service:

118The water was active at the time of the inspection.

Washing Machine Connections

119Washing machine connections not tested - faucets, drains not tested

Exterior Plumbing

120Missing back flow prevention devices as required by code.

121Missing insulation on exposed hose bibs and/or other plumbing supply lines.



122Various water supply lines in the attic need to be insulated

Interior Plumbing:

123The hot water side of the kitchen fixture has very low pressure, may be due to a defective galvanized water supply line.

124The hot water in the tub and in the hall lave has very low pressure, may be due to defective water lines.

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125 Some of the water lines have been replaced with copper and others abandoned in place as seen from the attic.



126 All commodes flushed properly.

127 All commodes are properly anchored.

Type of Pipes:

128 As seen at random the home has galvanized water supply lines.

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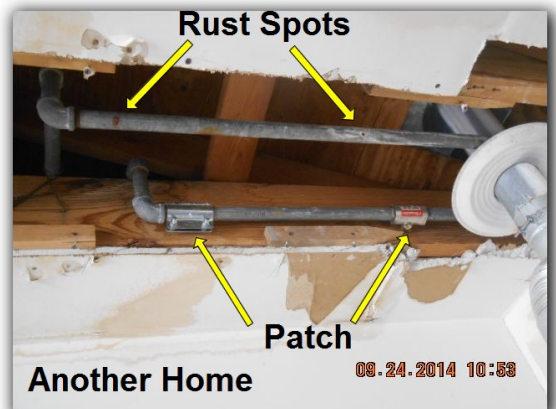
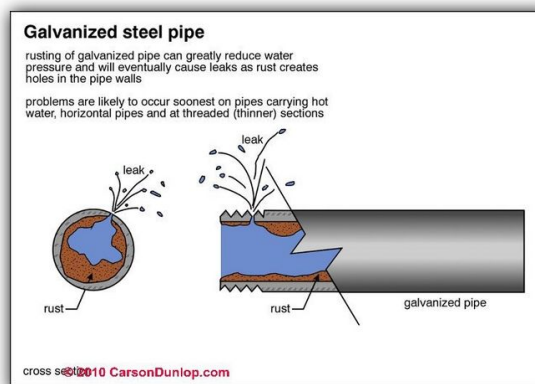
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129 Galvanized water supply lines with time can clog and have to be replaced, at the time of the inspection all of the fixtures flowed adequately.



130 Galvanized pipes have a general life expectancy of 50 years, but this can be shortened considerably by the amount of minerals in the water supply. The Houston area has hard water, and galvanized pipes here tend not to last longer.

131 Two things happen to galvanized pipes as they age. First, minerals tend to slowly build up on the inner walls of the pipe decreasing the inside diameter. In extreme cases, this can slow the water flow to a trickle. The other common problem with galvanized pipes is corrosion at the joints. In the process of cutting the threads for the pipe fittings, the protective galvanizing is cut away exposing bare metal. Over time, these threaded joints will corrode and eventually break.

132 If the pipes are original I would definitely consider replacing them. If you are

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not sure how old they are, a plumber should assess the plumbing pipes in the home.

Replacement Recommendation:

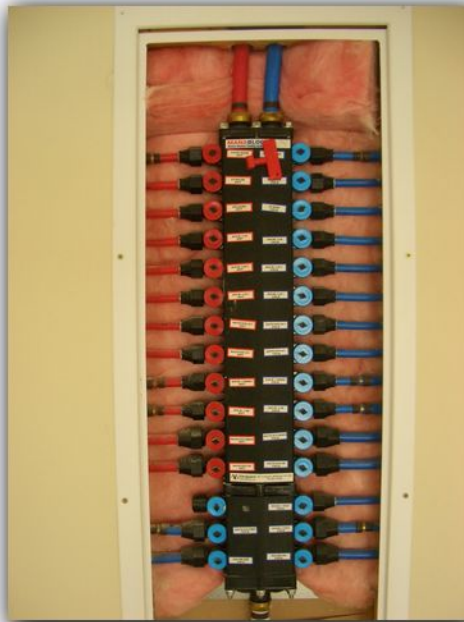
133It is recommended that a PEX water supply system be considered a qualified plumbing contractor should be consulted to determine the scope of work and cost of the replacement.

134PEX is a modern type of water pipes that replaced copper water lines and pvc water lines.

135PEX water lines are usually found with a central manifold and a "home run" type of water lines with individual cut off valves.

136However a central manifold is not required by code and individual connectors are permitted.

Another Homes shown below:



MANA AND ZURN MANIFOLDS:

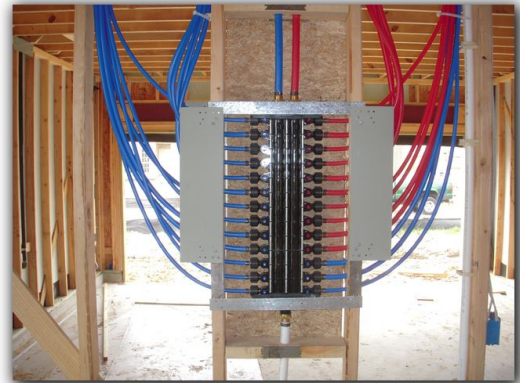
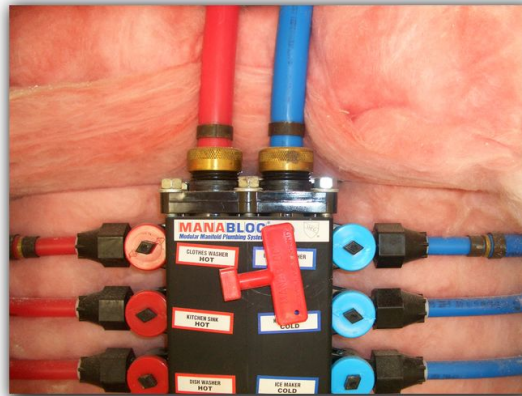
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137 PEX (or *cross linked polyethylene*) is part of a water supply piping system that has several advantages over metal pipe (copper, iron, lead) or rigid plastic pipe (PVC, CPVC, ABS) systems. It is flexible, resistant to scale and chlorine, doesn't corrode or develop pinholes, is faster to install than metal or rigid plastic, and has fewer connections and fittings.

138 **Cross linking** is a chemical reaction that occurs between polyethylene polymer chains. Cross linking causes the HDPE to become stronger and resistant to cold temperature cracking or brittleness on impact while retaining its flexibility. The three methods of cross linking HDPE are the Engels method (PEX-a), the Silane Method (PEX-b), and the Radiation method (PEX-c). Several industry participants claim that the PEX-a method yield more flexible tubing than the other methods. All three types of PEX tubing meet the ASTM, NSF and CSA standards)

139 PEX tubing is made from cross linked HDPE (high density polyethylene) polymer. The HDPE is melted and continuously extruded into tube. The cross linking of the HDPE is accomplished in one of three different methods.

140 PEX plumbing has been in use in Europe since about 1970, and was introduced in the U.S. around 1980. The use of PEX has been increasing ever since, replacing copper pipe in many applications, especially radiant heating systems installed in the slab under floors or walkways. Interest in PEX for hot and cold water plumbing has increased recently in the United States

Advantages of PEX Plumbing

Flexible PEX tube is manufactured by extrusion, and shipped and stored on spools, where rigid plastic or metal piping must be cut to some practical length for shipping and storage. This leads to several advantages, including

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lower shipping and handling costs due to decreased weight and improved storage options.

PEX plumbing installations require fewer fittings than rigid piping. The flexible tubing can turn 90 degree corners without the need for elbow fittings, and PEX tubing unrolled from spools can be installed in long runs without the need for coupling fittings.

Attaching PEX tube to fittings does not require soldering, and so eliminates the health hazards involved with lead-based solder and acid fluxes; PEX is also safer to install since a torch is not needed to make connections..

PEX resists the scale build-up common with copper pipe, and does not pit or corrode when exposed to acidic water.

PEX is much more resistant to freeze-breakage than copper or rigid plastic pipe.

PEX tubing does not transfer heat as readily as copper, and so conserves energy.

Water flows more quietly through PEX tube, and the characteristic "water hammer" noise of copper pipe systems is virtually eliminated.

B. Drains, Wastes, and Vents

Comments:

141The inspector operated at least three fixtures to test for proper water flow in the drain system.

142No obstructions were viewed at the time of the inspection.

143Missing tub access panel at sheet rock wall as required by IRC code P-2704.1.

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C. Water Heating Equipment

Energy Source: Electric

Comments:

Location of the Water Heater:

144The water heater is located in the garage.

145The water heater is electric and was active at the time of the inspection.



Safety Issue Compliance:

146The water heater was raised 18 inches as per code.

147The water heater is not protected from impact as required by code.

148The water heater is located in the garage it is raised 18 inches from the ground

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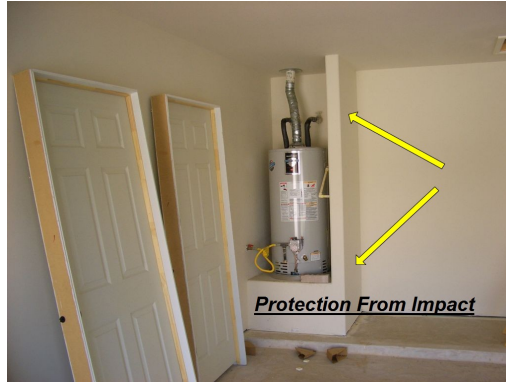
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but it is missing protection from impact as required by IRC code, 2801.6, 1307.3.1, 2408.2 & 3 or raise the water tank SIX FEET above the ground.

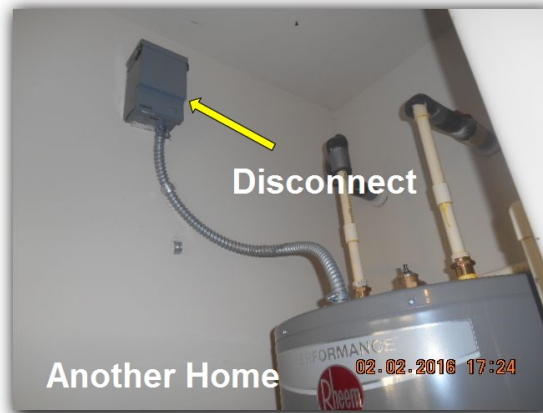
Other homes shown below:



Electrical Disconnect:

149The water heater must have an electrical cut off as per code.

150Missing the electrical disconnect.



Drain Pan:

151Missing a drain pan as per code.

152Missing a drain line at the drain pan as per code.

T&P Valve:

153T&P valve needs to be replaced

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154 The drain line for the T&P valve meets current code, termination not confirmed.



Home Warranty:

155 Please note that certain home warranties such as Choice Home Warranty does not cover a leaking water heater tanks which is the major issue and most expensive repair.

Dielectric Connection:

156 Missing a dielectric connection at the copper and galvanized connections that is causing rust built up.

157 A dielectric union is necessary because when two dissimilar (different) metals, when placed in an acidic solution, will create a battery. And one metal will usually erode away as the chemical reaction progresses. The other metal may have a buildup of new material, which may be a chemical combination of the eroded metal and the acid. Since virtually all domestic water is slightly acidic or slightly basic, this electro-galvanic action can occur in any metal plumbing system.

158 When copper and steel pipes are connected together directly, the "battery" has a path for electrical current to flow. (This current is tiny, and the voltage is not a safety hazard.)

159 If the current cannot flow, because there is no electrical connection (interrupted by the plastic insulators) then the "battery" never discharges. In theory there will always be a small voltage between the different metals. The metals do not erode.

Additional Information CSST gas flex lines:

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160CSST was developed in Japan in the 1980s. It was developed as a safety improvement over rigid black iron gas pipes that often failed and started fires during earthquakes. The flexible nature of the CSST system allows it to handle seismic activity without leaking gas.

In the early 1980s, the Gas Research Institute initiated research into the use of CSST systems in the U.S.; listing processes, and code approvals needed to be developed and accepted by regulatory bodies. The American National Standards Institute performance specification, AGA LC-1 1987 "Proposed Standard for Interior Fuel Gas Piping Utilizing CSST" was released in 1989.

Sales of CSST in the U.S. began in 1990 with approximately 100,000 ft. sold. Use of CSST grew in the U.S. as contractors quickly discovered it could be installed in 1/3 the time of rigid black iron pipe systems. Beyond the time saved on installations, contractors and code officials appreciated the reduction of fitting joints in a flexible gas piping system. Joints are areas for concern in gas piping systems as they represent potential leak paths. Flexible CSST systems have approximately 75% fewer fitting joints than rigid black iron pipe systems.

All CSST manufacturers expressly added the bonding and grounding procedure to their installation requirements in August 2006. This improved safety installation requirement reduces the likelihood of an electrical surge that can potentially cause a fire. More than 800 million feet of CSST gas piping in approximately six million homes has been installed in the U.S. since 1990.

161If your home has a CSST gas line (gas flex) it is strongly recommended that you determine if the CSST system is properly bonded and grounded. A bonding device should be installed on your natural gas system in order to reduce the chances of a natural gas leak or fire. Bonding is provided primarily to prevent a possible electric shock to people who come in contact with the gas piping and other metal objects connected to the grounding system. Nearby lightning strikes can also result in an electrical surge and can potentially puncture a hole in the CSST. Proper bonding and grounding will reduce the risk of damage and fire from a lightning strike.

Bonding of CCST:

162Direct bonding is required for gas piping systems incorporating standard (yellow) or uncoated CSST whether or not the connected gas equipment is electrically powered. This requirement is provided as part of the manufacturer's instruction for single-family and multi-family buildings and required by the 2009 and later editions of the National Fuel Gas Code, the International Fuel Gas Code and the Uniform Plumbing Code. A person

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knowledgeable in electrical system design, the local electrical code and these requirements should specify the bonding for commercial applications.

163 Standard CSST installed inside or attached to a building or structure shall be electrically continuous and direct bonded to the electrical ground system of the premises in which it is installed. The gas piping system shall be considered to be direct-bonded when installed in accordance with the following:

164 The bonding conductor is permanently and directly connected to the electrical service equipment enclosure, the grounded conductor at the electrical service, the grounding electrode conductor, or to one or more of the grounding electrodes used. When an additional grounding electrode(s) is used for the gas service, it shall be bonded to the electrical service grounding electrode system or, where provided, the lightning protection grounding system.

165 For single and multi-family structures a single bond connection shall be made on an accessible rigid piping component or CSST fitting located downstream of the utility gas meter or second-stage LP regulator. The bonding clamp attachment point may be at any location within the gas piping system. However, the shortest practical bonding wire length will improve the effectiveness of the direct-bond. The corrugated stainless steel tubing portion of the gas piping system shall not be used as the point of attachment of the bonding clamp under any circumstances.

166 The bonding conductor shall be no smaller than a 6 AWG copper wire or equivalent. The bonding conductor shall be installed and protected in accordance with the National Electrical Code, NFPA 70, (NEC) and Canadian Electrical Code CSAC22.1 (CEC). Bonding/grounding clamps shall be installed in accordance with its listing per UL 467 and shall make metal-to-metal contact with a rigid pipe component or CSST fitting. This direct-bond is in addition to any other bonding requirements as specified by local codes for ground fault protection.

167 The 2015 edition of the National Fuel Gas Code, International Fuel Gas Code, and Uniform Plumbing Code limits the length of the bonding conductor to 75-ft. When there are no local code requirements for the length of this conductor refer to the manufactures instructions or the NEC / CEC for guidance regarding the permissible length of the bonding conductor.

Manufactures of black jacketed CSST products which have been tested and listed to ICC-ES LC 1024, "CSST Utilizing a Protective Jacket", may not require or include in their instructions the additional direct-bonding step that is

I=Inspected

NI=Not Inspected

NP=Not Present

D=Deficient

I NI NP D

required with standard (yellow) CSST products. However local codes may be more restrictive and may differ from manufacturer's requirements. Local codes take precedence and must be adhered to.

D. Hydro-Massage Therapy Equipment

E. Other

Comments:

V. APPLIANCES

A. Dishwashers

Comments:

168The dishwasher was not present at the time of the inspection.



Drain Line:

169The drain line was not raised above the drain and looped as per code.

170Missing an air gap valve on top of the sink as per code.

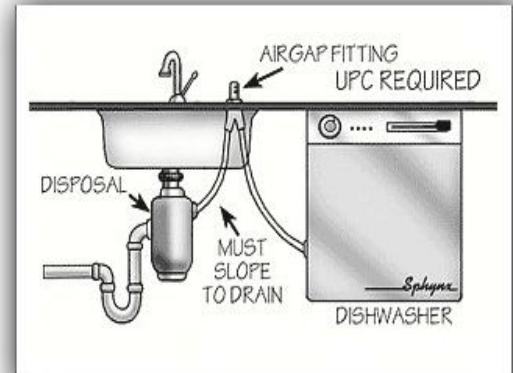
I=Inspected

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B. Food Waste Disposers

Comments:

171The disposer was inoperative at the time of the inspection.

172Missing a connector at the electrical connection.



Drain Line:

173The waste disposer was improperly plumbed.

174Code requires a different type of drain system. The size of the pipe must be consistent thru the entire run and thus with the above diagram it demonstrated that an obstruction or "deflector" when present, it reduces the effective useable radius of the drain pipe, down to 3/4" from the required 1-1/2 inch, a violation of code.

I=Inspected

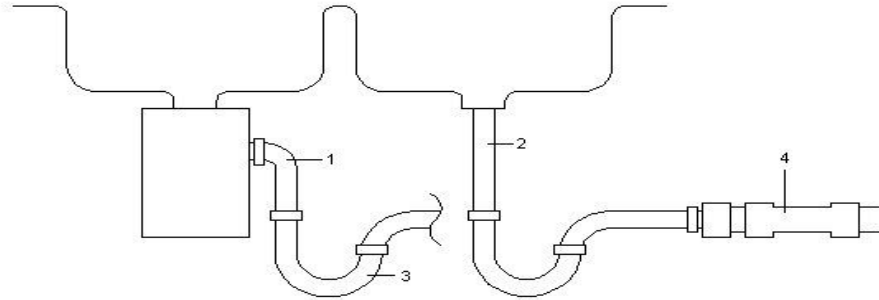
NI=Not Inspected

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I	NI	NP	D
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175The solution that is achieved by the method found in the IRC code provides each sink with its own P-trap, then plumb the drain lines together back at the heavier pipe into the wall using a wye connector instead. Wye connectors have big open passages through them. To illustrate:



The item 1 is a "disposer elbow". They come with a new disposer and are usually a black pipe.

Item 2 is a tailpiece, they typically come in 6" and 12" lengths.

Item 3 is a new P-trap assembly

Item 4 is a 1-1/2" wye

176It doesn't look like it in this illustration because it needs to be installed in a flat plane so all connections to it are horizontal.

177Below is a photo of the finished assembly, of how it should look like.

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I NI NP D



178When the proper installation is completed, the drains will then work as intended since there is a full pipe diameter drain from *each* sink.

179The reason that the drain from the sink to the right in the photo has two 45° bends in it rather than a straight drop to the P-trap is to reduce noise. Water falling more than a foot into the standing water in a P-trap makes a splashing sound; by putting these links in the drop, the water runs down the side rather than falling straight, and the sound is somewhat baffled from coming back up the pipe.

C. Range Hood and Exhaust Systems

Comments:

180The vent hood was present and working properly at the time of the inspection.

181The vent hood needs silver tape at the cabinet/vent penetration.

I=Inspected

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D=Deficient

I	NI	NP	D
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Vent Hood Termination:

182The vent hood terminates thru the cabinet.

183Improperly terminating vent to the attic, a fire hazard.



184Improper termination into the attic, it must terminate thru the roof.

D. Ranges, Cooktops, and Ovens

Comments:

Range Type: Electric Gas Not in place at the time of the inspection

Stand Alone Stove top

Electric Stove Top:

185The home has an electric stove top that is working properly.

I=Inspected

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NP=Not Present

D=Deficient

I	NI	NP	D
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186The stove top has proper conduit under the cabinet as per code.



187The home has a wall mounted oven that needs service.



Anti Tip Device:

188The Missing an anti tip brace at floor as per code;

I=Inspected

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I NI NP D



189Anti tip devices are an important safety item for all homes with free standing or slide in ovens/ranges. Anti tip brackets are metal devices designed to prevent oven/ranges from tipping over. Anti Tip Devices/Brackets are also referred to as a Tilt Guard or a Range Stability Device.

190The bracket is usually attached to a rear leg of the range and anchored into the floor or the wall behind it. Brackets mounted to the floor allow the leg of the range to slide back into place, preventing it from falling forward. Some wall mounted brackets are installed into an opening in the back of the oven in lieu of on the bottom of the leg. The brackets are included with all appliance installation packages.

191A range that does not have an anti tip bracket installed may tip over if enough weight or pressure is applied to the open oven door, such as that from a large Thanksgiving day turkey, or even a small child using the door as a step. A falling range can crush, scald, or burn someone close by. Newer ranges are light enough that it does not take much weight to cause them to tip over, but they're heavy enough to injure or kill small children trapped beneath. Anti-tip brackets can prevent this from happening and they are required by current standards but they are not installed in a huge portion of ranges.

E. Microwave Ovens

Comments:

192The microwave was not present at the time of the inspection.

193The microwave is cabinet mounted.

I=Inspected

NI=Not Inspected

NP=Not Present

D=Deficient

I NI NP D



F. Mechanical Exhaust Vents and Bathroom Heaters

Comments

194 Power exhaust vents were working properly at the time of the inspection.

195 Improperly terminating flex vents into the attic, they must terminate to the exterior as per code.



Utility Room:

196 The utility room area is missing a 50 cfm power exhaust vent at the ceiling as required by code in a room that has no windows.

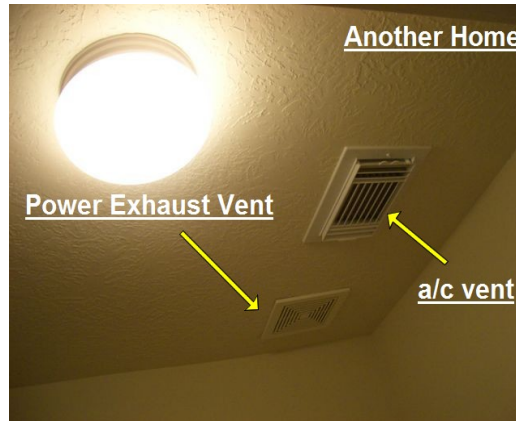
I=Inspected

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I	NI	NP	D
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197R303.3 Bathrooms. Bathrooms, water closet compartments and other similar rooms shall be provided with aggregate glazing area in windows of not less than 3 square feet (0.279 m²), one-half of which must be openable.

198Exception: The glazed areas shall not be required where artificial light and a mechanical ventilation system are provided. The minimum ventilation rates shall be 50 cfm (23.6 L/s) for intermittent ventilation or 20 cfm (9.4 L/s) for continuous ventilation. Ventilation air from the space shall be exhausted directly to the outside.

-
-
-
-

G. Garage Door Operators

Comments:

Garage Door Opener:

199The garage door opener was present and working properly at the time of the inspection.



Electrical Connection:

I=Inspected

NI=Not Inspected

NP=Not Present

D=Deficient

I	NI	NP	D
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200The garage door opener was properly connected to a ceiling mounted receptacle as per code.

H. Dryer Exhaust Systems

Comments:

201The dryer vent must be cleared prior to use.

202The vent has a proper back draft damper as per code.

203Dryer Vent - **G2437.3 (613.4) Exhaust material.** Dryer exhaust ducts for clothes dryers shall terminate on the outside of the building and **shall be equipped with a back draft damper.**



Additional Information:

Statistics from the Consumer Product Safety Commission (CPSC) show that over 24,000 house fires and nearly \$100 million in property damage annually are related to faulty clothes dryer vent installations. House fires related to clothes dryer vents are much more common than most people believe but luckily are relatively easy to prevent. The photo above illustrates how dirty many dryer ducts are and most people would have no idea until they either (1) have a fire, or (2) decide to finally clean out their dryer vent.

During a normal drying cycle, up to a gallon of water may be drawn out of the clothes in the form of water vapor. The purpose of the dryer vent system is to transport this water vapor, and the lint that accompanies it, to a safe location outside the home.

Flex Vinyl Tubing:

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I NI NP D

The most commonly seen improper type of dryer vent is flexible vinyl tubing. Vinyl is a type of plastic and it can easily melt and lead to a house fire. This material, most often white and ribbed, tends to allow for lint to readily accumulate. Lint is very flammable and all it takes is a small spark to ignite it leading to a house fire.

The more lint that fills a clothes dryer vent, the more energy the clothes dryer consumes to try to dry the clothes as air won't freely flow through the clogged vent material. This, in turn, causes the drying cycle to be much longer than normal and raises utility bills. The photo below shows an installation of vinyl tubing.



I. Other

Comments:

VI. OPTIONAL SYSTEMS

A. Outbuildings

Comments:

204A storage building is located in the rear yard.

I=Inspected

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D=Deficient

I	NI	NP	D
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205The building was not inspected, beyond the scope of this inspection.

206The doors need to be replaced.



207The building was occupied.



List of Repairs - Summary Report

Note: Person responsible for repairs must first read the report on the topic prior to going only by the list of repairs. The report shows how the deficiency should be made and in some cases the code associated with the repair. Do not begin repairs using only this list of repairs.

FOUNDATIONS

1 Foundation Repairs:

1. 1 Evidence of recent foundation repairs
2. 1 Buyer should be provided with a pier placement plan indicating the extent of foundation repairs performed.
3. 1 Buyer should have the warranty properly transferred at closing by the owner at the title company, usually there is a fee attached to such a transfer that is normally paid by the seller.

GRADING AND DRAINAGE

1 High Soil:

4. Various points around the perimeter beam of the foundation the soil is too high, it must be at least six inches from the ground to avoid water intrusion and/or pest infestation
5. 1 Ponding noted at several points around the foundation or near the foundation all low spots should be filled, compacted and caused to drain away from the foundation to avoid future foundation settlement issues

ROOF COVERING MATERIALS

1 Tree Limbs:

6. There are various tree limbs that are in contact with the roof covering, all tree limbs must be at least six feet from the roof/shingles to avoid damage

ROOF STRUCTURES AND ATTICS

1 Traditional Attic Area:

1 Landing:

7. Missing a clear landing at the top of the stairs as required by code

1 Decking & Work Platform:

8. Improper decking methods, attic decking must be solid plywood with no obstructions in front of the furnace as per code and as seen on the left lower photo below.
9. 1 Improper decking materials, must have 3/4 inch plywood that is unobstructed to the furnace and at least 24 inches wide

1 Insulation:

10. The insulation does not meet R-38 code requirements which is at least ten inches of insulation in all parts of the attic.

CEILING AND FLOORS

11. 1 The ceramic flooring in the family room has a section that is "soft" and has lost its seal
12. 1 The wood flooring in one room has been painted and looks like it has some water damage, the owner should disclose if the home has flooded

DOORS (INTERIOR AND EXTERIOR)

1 Garage Doors

- 13. 1 Garage door frame wood trim is too close to the ground, must be cut 45 degrees, painted at the base (sealed) and be two inches above the concrete floor to avoid water rot
- 14. 1 Door going into the garage is not a fire rated door as per code

WINDOWS

- 15. 1 Missing some window screens

OTHER

- 16. 1 Wood perimeter fence is in need of repairs at various places
- 17. 1 Some of the fence has minor wind damage

SERVICE ENTRANCE AND PANELS

1 Main Electrical Disconnect Panel

- 18. 1 Ground wire is not properly secured to the ground rod clamp, it is not visible
- 19. 1 Ground rod must be above ground and visible, the ground rod clamp must be visible, the ground rod should extend at least six inches above the ground to be able to inspect and maintain the ground rod clamp, see photo below of another home with a properly installed ground rod
- 20. 1 Main panel dead front cover is not fully labeled as per code

21. 1 One leg of the 220 volt breaker appears to have been over heated

22. 1 The breakers are missing the anti-oxident on the aluminum wire at the connectors and breakers as per code

23. 1 The breakers are not for al/cu use

1 Arc Fault Interrupters:

24. 1 Missing arc fault interrupters as required by current code of 2008 and newer homes.

25. Code IRC 3802.11 requires arc fault interrupters in all circuits going into the living area

26. 1 Home is missing arc fault protection on the GFI's as required by current code

27. 1 It is recommended that the breaker panel be replaced with one that has proper co/al breakers, main breaker and arc fault interrupters as per current code

BRANCH CIRCUITS, CONNECTED DEVICES, AND FIXTURES

1 Ground Fault Circuit Interrupt Safety Protection

28. Home is missing GFI protection in all wet areas as detailed below

29. 1 The GFI's in the kitchen are not made for co/al use

1 Smoke and Fire Alarms

30. 1 Replace all batteries of existing smoke detectors

31. 1 Smoke alarms are not present in each sleeping area

32. 1 No smoke alarm in hallway

1 Fixtures:

33. 1 Missing various luminaries (bulbs) in various light fixtures

34. 1 The garage light fixtures, secondary are in need of repair

35. 1 Some light fixtures inoperable or in need of repair such as the front entry

1 **Receptacles:**

36. 1 Missing four prong 220 volt receptacle on the dryer electrical connection has the obsolete three prong receptacle

1 **Aluminum Wire:**

37. 1 Home has aluminum wire going into the living area, a violation of code. The home does not have proper Al/Co connectors. All switches, receptacles and connectors must be for use with Aluminum wire or Co/Al as required by code. All connectors installed must be approved for use with Aluminum wire.

38. 1 See: <http://inspectapedia.com/aluminum/aluminum.htm>

39. 1 All of the connectors must be purple for use with aluminum wire, not red, black or yellow, see the photo below of the package as sold by hardware stores

40. 1 **E3306.8 Aluminum and copper connections.** Terminals and splicing connectors shall be approved for the material of the conductors joined. Conductors of dissimilar metals shall not be joined in a terminal or splicing connector where physical contact occurs between dissimilar conductors such as copper and aluminum, copper and copper-clad aluminum, or aluminum and copper-clad aluminum, except where the device is listed for the purpose and conditions of application. Materials such as inhibitors and compounds shall be suitable for the application and shall be of a type that will not adversely affect the conductors, installation or equipment.

41. 1 **E3902.3 CO/ALR receptacles.** Receptacles rated at 20 amperes or less and directly connected to aluminum conductors shall be marked CO/ALR.

1 **Confirmation of Repairs on Aluminum Wire:**

42. 1 When the receptacles, switches and connectors are replaced, the old receptacles, switches and connectors must be left next to the corrected area or under the light fixture or light switch including the attic, over the kitchen sink, vent hood, exterior etc.

43. 1 The boxes of the new Co/Al components installed must be left next to the receptacle, switch or connector for the inspector to view.

44. 1 The "map" of where the electrician replaced the components and the electrical certification with the electricians license number and signature must also be with the above

45. 1 Note 1: Some lenders will not finance homes with aluminum wire that has not been retrofitted.

- 46. 1 Note 2: Some insurance companies will not insure homes with aluminum wire that has not been retrofitted.
- 47. 1 The issue of properly repairing and upgrading the main panel to meet current code for aluminum wire should be agreed at this time to avoid surprises by the underwriter at the last minute.
- 48. 1 All work above should be performed by a knowledgeable and licensed electrician who will personally be responsible for the completed work which will be inspected again

HEATING EQUIPMENT

1 Service System:

- 49. 1 **ELECTRIC FURNACE:** The furnace needs to be serviced prior to closing in order to validate most home owner's warranty requirement. The a/c technician must issue a certification that the system meet code and is heating properly and the heat strips are in good conditions

COOLING EQUIPMENT

1 Performance of System:

- 50. 1 The system was not cooling properly at the time of the inspection

1 Primary Drain Line:

- 51. 1 The primary drain line must be cleared
- 52. 1 The drain pan is missing an energy cut off switch as per code

1 Service System:

- 53. The system must be serviced prior to closing in order that with most home owners warranty can become effective. The system should be certified by a licensed a/c technician indicating that the system is up to code and is operating properly

1 Home Warranty:

54. Please note that certain home warranties such as **Choice Home Warranty** does not cover all repairs and in my case stated that the servicing was not done properly and denied a failed a/c compressor which is wrong

DUCT SYSTEMS, CHASES, AND VENTS

55. 1 Ducts must not be in contact with each other or lay on top of the joists otherwise they will create condensation that is prone to mold and mildew issues
56. 1 The ducts must be elevated and supported from the rafters
57. 1 Return air filter needs replacement

PLUMBING SUPPLY, DISTRIBUTION SYSTEMS AND FIXTURES

1 Washing Machine Connections

58. 1 Washing machine connections not tested - faucets, drains not tested

1 Exterior Plumbing

59. 1 Missing back flow prevention devices as required by code
60. 1 Missing insulation on exposed hose bibs and/or other plumbing supply lines
61. 1 Various water supply lines in the attic need to be insulated
62. 1 The hot water side of the kitchen fixture has very low pressure, may be due to a defective galvanized water supply line
63. 1 The hot water in the tub and in the hall lavatory has very low pressure, may be due to defective water lines
64. 1 Some of the water lines have been replaced with copper and others abandoned in place as

seen from the attic

- 65. 1 Galvanized water supply lines with time can clog and have to be replaced, at the time of the inspection all of the fixtures flowed adequately.
- 66. 1 If the pipes are original I would definitely consider replacing them. If you are not sure how old they are, a plumber should assess the plumbing pipes in the home
- 67. 1 It is recommended that a PEX water supply system be considered a qualified plumbing contractor should be consulted to determine the scope of work and cost of the replacement

DRAINS, WASTES, AND VENTS

- 68. 1 Missing tub access panel at sheet rock wall as required by IRC code P-2704.1.

WATER HEATING EQUIPMENT

- 69. 1 The water heater is not protected from impact as required by code
- 70. 1 The water heater is located in the garage it is raised 18 inches from the ground but it is missing protection from impact as required by IRC code, 2801.6, 1307.3.1, 2408.2 & 3 or raise the water tank SIX FEET above the ground.

1 Electrical Disconnect:

71. The water heater must have an electrical cut off as per code.

72. Missing the electrical disconnect

73. 1 Missing a drain pan as per code.

74. Missing a drain line at the drain pan as per code

1 T&P Valve:

75. 1 T&P valve needs to be replaced

1 Home Warranty:

76. Please note that certain home warranties such as Choice Home Warranty does not cover a leaking water heater tanks which is the major issue and most expensive repair

DISHWASHERS

77. 1 The dishwasher was not present at the time of the inspection

78. 1 The drain line was not raised above the drain and looped as per code

79. 1 Missing an air gap valve on top of the sink as per code

FOOD WASTE DISPOSERS

80. 1 The disposer was inoperative at the time of the inspection

81. 1 Missing a connector at the electrical connection

82. 1 The waste disposer was improperly plumbed

RANGE HOOD AND EXHAUST SYSTEMS

83. 1 The vent hood needs silver tape at the cabinet/vent penetration

84. 1 Improperly terminating vent to the attic, a fire hazard

85. 1 Improper termination into the attic, it must terminate thru the roof

RANGES, COOKTOPS, AND OVENS

86. 1 The home has a wall mounted oven that needs service

87. 1 The Missing an anti tip brace at floor as per code;

MICROWAVE OVENS

88. 1 The microwave was not present at the time of the inspection

MECHANICAL EXHAUST VENTS AND BATHROOM HEATERS

89. 1 Improperly terminating flex vents into the attic, they must terminate to the exterior as per code

90. 1 The utility room area is missing a 50 cfm power exhaust vent at the ceiling as required by code in a room that has no windows

DRYER EXHAUST SYSTEMS

91. 1 The dryer vent must be cleared prior to use.

OUTBUILDINGS

92. 1 The doors need to be replaced

Buyer's Notes & Disclosures

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____

DISCLAIMERS: As per TREC guidelines, the inspector does not;

1. Provide the life expectancy of the roof covering or any component
2. Determine the warrant ability or insurability of any component
3. Call out specific hazardous conditions 535.227b
4. Perform testing that requires specific licensing
5. Enter crawl spaces where headroom is less than 18" or deemed hazardous.
6. Determine the accuracy of the main panel breaker labeling
7. Certify any flatwork or local City Ordinance violations such as required in Missouri City
8. Confirm draw or flow on chimneys or other vents such as vent hoods
9. Confirm blockage or flow of dryer vents
10. Perform repairs or recommend contractors
11. Call out wood destroying insects
12. Provide the value of the property or investment projections
13. Review building plans and compare to the as built
14. Call out environmental hazardous conditions if any exist
15. Look for or call out suspect asbestos conditions
16. Does not perform a code inspection confirmed by on site plans
17. Check washer, dryer and refrigerator appliances
18. Check water purification devices
19. Light fire places or check for drafting
20. Does not locate or look for leaking pipes under the foundation
21. Does not remove attic insulation to view condition of pipes under the insulation
22. Check or confirm that drain pans located in the attic for the air conditioning or water heater systems lines leak, have a breach or terminate to the appropriate location
23. Guarantee the work or repairs performed by others
24. Fireplace not checked for grounding
25. Firewall not checked for assembly integrity as required by code
26. The inspection is performed for the party noted on page one of the report and is not transferable. If a party instigates legal action against the inspector and fails to prevail on every count such party will be responsible for the payment of the inspector's legal fees.
27. The inspector issues an opinion on the present condition of the component that is inspected
28. If the client finds a perceived fault in the inspection the client must contact the inspector in writing within the five days of the discovery in order that the inspector has an opportunity to review the alleged faulty issue.
29. Inspector does not check for issues with defective toxic sheetrock, such as Chinese Sheetrock that exists on some homes since 2001 see www.wikipedia.org/wiki/Chinese_drywall.
30. Inspector does not check for issues with granite tops such as radioactivity such as radon.
31. Other limitations for each category as found on the TREC web site

MANDATORY DISCLOSURE REQUIRED ON REPORT

The TREC Standards of Practice (Sections 535.227-535.233 of the Rules) are the minimum standards for inspections by TREC-licensed inspectors. **An inspection addresses only those components and conditions that are present, visible, and accessible at the time of the inspection. While there may be other parts, components or systems present, only those items specifically noted as being inspected were inspected.** The inspector is NOT required to turn on decommissioned equipment, systems, utility services or apply an open flame or light a pilot to operate any appliance. **The inspector is NOT required to climb over obstacles, move furnishings or stored items.** The inspection report may address issues that are code-based or may refer to a particular code; however, this is NOT a code compliance inspection and does NOT verify compliance with manufacturer's installation instructions. **The inspection does NOT imply insurability or warrantability of the structure or its components. Although some safety issues may be addressed in this report, this inspection is NOT a safety/code inspection, and the inspector is NOT required to identify all potential hazards....**

...THIS PROPERTY INSPECTION IS NOT A TECHNICALLY EXHAUSTIVE INSPECTION OF THE STRUCTURE, SYSTEMS OR COMPONENTS. **The inspection may not reveal all deficiencies.** A real estate inspection helps to reduce some of the risk involved in purchasing a home, but it cannot eliminate these risks, nor can the inspection anticipate future events or changes in performance due to changes in use or occupancy. It is recommended that you obtain as much information as is available about this property, including any seller's disclosures, previous inspection reports, engineering reports, building/remodeling permits, and reports performed for or by relocation companies, municipal inspection departments, lenders, insurers, and appraisers. You should also attempt to determine whether repairs, renovation, remodeling, additions, or other such activities have taken place at this property. It is not the inspector's responsibility to confirm that information obtained from these sources is complete or accurate or that this inspection is consistent with the opinions expressed in previous or future reports.

ITEMS IDENTIFIED IN THE REPORT DO NOT OBLIGATE ANY PARTY TO MAKE REPAIRS OR TAKE OTHER ACTIONS, NOR IS THE PURCHASER REQUIRED TO REQUEST THAT THE SELLER TAKE ANY ACTION. **When a deficiency is reported, it is the client's responsibility to obtain further evaluations and/or cost estimates from qualified service professionals. Any such follow-up should take place prior to the expiration of any time limitations such as option periods. Evaluations by qualified tradesmen may lead to the discovery of additional deficiencies which may involve additional repair costs. Failure to address deficiencies or comments noted in this report may lead to further damage of the structure or systems and add to the original repair costs. The inspector is not required to provide follow-up services to verify that proper repairs have been made.**

Property conditions change with time and use. For example, mechanical devices can fail at any time, plumbing gaskets and seals may crack if the appliance or plumbing fixture is not used often, roof leaks can occur at any time regardless of the apparent condition of the roof, and the performance of the structure and the systems may change due to changes in use or occupancy, effects of weather, etc. These changes or repairs made to the structure after the inspection may render information contained herein obsolete or invalid. **This report is provided for the specific benefit of the client named above and is based on observations at the time of the inspection. If you did not hire the inspector yourself, reliance on this report may provide incomplete or outdated information...it is recommended that you hire your own licensed inspector to perform an inspection to meet your specific needs...**

ADDENDUM: MAINTENANCE ADVICE

Upon Taking Ownership

- After taking possession of a new home, there are some maintenance and safety issues that should be addressed immediately. The following checklist should help you undertake some of these improvements and maintenance issues:
- Change the locks on all exterior entrances, for improved security. If burglar bars are present make them detachable as per City of Houston ordinance (able to be opened without a key).
- Check that all windows and doors are secure. Improve or replace window hardware as necessary. Security rods can be added to sliding windows and doors. This inspector recommends a monitored security alarm system with smoke and fire detection hardware.
- Install smoke detectors on each level of the home, in each bedroom, in the hallway immediately outside the bedrooms and the game room, but not in the kitchen.
- Replace batteries on any existing smoke detectors and test them. Make a note to replace batteries again in one year, usually when the Daylight Savings time changes.
- Create a plan of action in the event of a fire in your home. Ensure that there is an operable window or door in every room of the house. Consult with your local fire department regarding fire safety issues and what to do in the event of a fire.
- Examine driveways and walkway for trip hazards. Undertake repairs where necessary.
- Examine the interior of the home for trip hazards such as faulty vinyl or ceramic flooring, loose or torn carpet, and make the appropriate repairs.
- Undertake improvements to all stairways, decks, porches and landings where there is a risk of falling or stumbling.
- Review your home inspection report for any items that require immediate repairs or improvement or further investigation. Address these areas as required and make the appropriate repairs.
- Install rain caps and vermin screens on all chimney flues, soffit vents, etc. as necessary.
- Investigate the location of the main shut-offs for the plumbing, heating and electrical systems.
- Seal all cracks or separations at brick veneer at exterior window sills and frames.
- Install stainless steel reinforced water supply lines to your washing machine to avoid accidents.
- If a condominium, buyer should carefully review the condominium declaration and from time to time also inspect the integrity of the fire walls in the attic.
- Buyer should check for any community restrictions and limitations.
- Make a note of the telephone numbers for local police, fire and ambulances services.
- Locate and confirm the termination of the dryer vent and clear of lint; The vent must not terminate to the attic, interior wall and must have a back draft damper, but no screen.
- Locate, confirm the termination of the vent hood vent and clear it, must not terminate into the attic.
- Fireplace/Chimney must be serviced prior to use,
- Clear any bird's nest/obstructions & service damper.
- Install protective covers (globe) over exposed incandescent light bulbs in the closets

Regular Maintenance

- **Examine heating/cooling air filters and replace or clean as necessary**
- **Check that fire extinguisher(s) are fully charged, re-charge if necessary or purchase & install one**
- **Inspect and clean electronic air filters**
- **Clean gutters and down spouts. Ensure that down spouts are secure, and that the discharge of the down spout is appropriate (open end away from slab);**
- **Remove debris from exterior window wells**
- **Carefully inspect the condition of shower enclosures. Repair or replace deteriorated grout and caulk. Ensure that water is not escaping the enclosure during showering. Check below all plumbing fixtures for evidence of leakage.**
- **Repair or replace leaking faucets or shower heads.**
- **Secure loose toilets, or repair flush mechanisms that become troublesome**
- **If mold appears, locate the source and promptly fix it and remediate the affected area**

Buyer Notes:

SPRING AND FALL

- Examine the roof for evidence of damage to roof covering, flashing and chimneys.
- Look in the attic (if accessible) to ensure that roof vents are not obstructed. Check for evidence of leakage, condensation or vermin activity. Level out insulation if needed.
- Trim back tree branches and shrubs to ensure that they are not in contact with the house
- Inspect the exterior walls and foundation for evidence of damage, cracking or movement.
- Watch for bird nests or other vermin or insect activity
- Survey crawl space walls for evidence for moisture seepage.
- Look at overhead wires coming to the house. They should be secure and clear of trees or other obstruction.
- Ensure that the grade of the land around the house encourages water to flow away from the foundation.
- Inspect all driveways, walk ways, decks, porches, and landscape components for evidence of deterioration, movement or safety hazards.
- Clean windows and test their operation. Improve caulking and weather stripping as necessary.
- Watch for evidence of wood rot around window frames and window sills.
- Paint and repair window sills and frames as necessary.
- Test all ground fault interrupters (GCFI) devices, as identified in the inspection report.
- Shut off isolating valves for exterior hose bibs in the fall or properly insulate.
- Test the Temperature and pressure valve (TPR) on water heater and replace if necessary.
- Inspect for evidence of wood boring insect activity. Eliminate any wood/soil contact around the perimeter of the home.
- Test the overhead garage door opener, to ensure that the auto reverse mechanism is responding properly. Clean and lubricate hinges, rollers and tracks on overhead doors.
- Replace and clean exhaust hood filters.
- Clean, inspect and or service all appliances as per the manufacturer's recommendations.

Buyer Notes:
