



Heidelberg Township Zoning Office
 Lehigh County
 6272 Route 309 ~ Suite A
 New Tripoli, Pa. 18066
 610-767-9297 ~ Fax 484-265-0097
www.heidelberglehigh.org

Application

Pa. Act 45 (Uniform Construction Code)

Received _____ Tax Map # or PIN # _____
 Permit Numbers ~ Bldg. _____ Electric _____ Plumbing _____
 HVAC _____ Sewer _____
 Zoning District _____ Date Issued _____ Date Expires _____

Please Check One Inspection Agency: Once an applicant/homeowner/builder chooses an inspection agency on the Township List they must continue to use that agency through completion of the permitted project.

Please call your inspection agency direct to schedule your inspections.

- _____ Blue Mountain Inspection Services
 6 Old State Road, New Ringgold, Pa. 17960 - Phone 570-943-2577
- _____ CodeMaster Inspection Services
 1209 Hausman Road - Suite B, Allentown, Pa. 18104 - Phone 484-223-0763

This is a multi-use application ~ please fill in as to what applies to your project ~ Thank You

Plot Plan ~ Provide three (3) copies of a plot plan showing all existing structures, well, septic tank, drain field, sewer lines, driveway area, and proposed improvements within the lot. Exact dimensions and setbacks must be shown if improvements are proposed less than ten (10) feet from the required setbacks.

Construction Plans

Residential ~ **Three (3)** sets of construction plans must be "as built" indicating all the information of the Pa. UCC Code, including the square footage of the total floor area of the structure (living area, basement, finished attic, garages, decks and porches).

Additions to residential dwellings only ~ if no construction plans are drafted, the Building Inspector may approve a list of materials to be used if the load strengths can be determined by the identification of the rafters, joist, and the spacing of each. A hand drawn plan is acceptable.

Commercial Structures ~ **Three (3)** sets of construction plans; the construction documents shall be prepared by a registered design professional and be signed and sealed. The floor area utilized by the public must be shown separately from the total square footage of the building area.

Location/Address of proposed work or improvement _____

Owner Name (Please Print) _____ Phone# _____
Owner Signature _____ Cell# _____
Fax# _____ email _____
Mailing Address _____

Principal Contractor _____ Phone# _____ Cell# _____
Fax# _____ email _____
Mailing Address _____
PA Home Improvement Consumer Act Registration No. _____

Applicant _____ Phone# _____ Cell# _____
Fax# _____ email _____
Mailing Address _____

Architect _____ Phone# _____ Cell# _____
Fax# _____ email _____
Mailing Address _____

Building Setbacks (distance of proposed construction from property lines and road right of way)
Front _____ Rear _____ Right Side _____ Left Side _____
Easements ~ Front _____ Side _____ Rear _____ Zoning Hearing Decision _____
Located in a Flood Plain Yes No

Type of work or improvement
 New Building Addition Alteration Repair Renovation Demolition
 Change of Use In ground Swimming Pool Above ground Swimming Pool/Spa
 Signs Billboards

Describe proposed work _____

Estimate value of construction \$ _____

Description of Building/Land Use

Residential Non-Residential (Commercial)
 1 Family Dwelling (R3) Specific Use _____
 2 Family Dwelling (R3) Use Group _____
Change in Use Yes No
If yes, indicate prior occupant _____
Maximum Occupancy Load _____

Building/Site Characteristics

Number of Residential Dwelling Units ~ _____ Existing, _____ Proposed
Water Service ~ please check one public private
Sewer Service ~ please check one public private

Building Dimension ~ Length _____ Width _____
Height of Structure Above Grade _____
Total square feet of proposed building _____ Number of Stories _____

Electric Application

Type of Use ~ Residential or Commercial _____

Location Address _____

Record Owner _____ Address _____

Telephone _____

Electrician _____ Address _____

Telephone _____

Electrician Signature _____ Date _____

Electrician certifies that all information given is correct and that all pertinent electrical ordinances will be complied with in performing the work for which this permit is issued.

New _____ Addition _____ Alteration _____

PPL Job Number (if applicable) _____

Is Service? New Replacement Upgrade

Service Size _____

Provide a brief description of work to be done:

Plumbing Application

Type of Use ~ Residential or Commercial _____

Location Address _____

Record Owner _____ Address _____

Telephone _____

Plumber _____ Address _____

Telephone _____

Plumber Signature _____ Date _____

List quantity of each fixture that apply

Water Softener _____ Bath Tub _____ Water Heater _____

Water Closet _____ Garbage Disposal _____ Lavatory Sink _____

Shower ~ stall _____ Laundry/Utility Tub _____ Sink ~ kitchen _____

Floor Drain _____ Automatic Washer _____ Urinal _____

Dishwasher _____ Drinking Fountain _____ Other _____

Provide a brief description of work to be done:

HVAC Application

Type of Use ~ Residential or Commercial _____

Location Address _____

Record Owner _____ Address _____

_____ Telephone _____

Contractor _____ Address _____

_____ Telephone _____

Contractor Signature _____ Date _____

Job Type:

New Unit _____ Replace Existing Unit _____ New Fuel Type _____ Existing Fuel Type _____

Indoor Unit Location:

Basement _____ 1st Floor _____ Attic _____ Other _____

Outdoor Unit Location:

Ground _____ Rooftop _____ Other _____

Type of Job:

Heating _____ Air Conditioning _____ Ventilation _____ Other _____

Type of Unit:

Oil _____ Heat Pump _____ Wood _____ Gas _____ Forced Air _____ Electric _____

Geothermal _____ Boiler _____ Other _____

Make & Model of Unit: _____

BTU's of Unit: _____ Outside Air: _____

Vent Rate (CFM) Total: _____ Vent Rate (CFM): _____

Cost of Proposed Work: _____

Provide a brief description of work to be done:

The applicant certifies that all information on this application is correct and the work will be completed in accordance with the "approved" construction documents and PA Act 45 (Uniform Construction Code) and any additional approved building code requirements adopted by the Municipality. The property owner and applicant assumes the responsibility of location all property lines, setback lines, easements, rights of way, flood areas, etc. Issuance of permit and approval of construction documents shall not be construed as authority to violate, cancel or set aside any provisions of the codes or ordinances of the Municipality or any other governing body. The applicant certifies he/she understands all the applicable codes, ordinances and regulations.

Application for a permit shall be made by the owner or lessee of the building or structure, or agent of either, or by the registered design professional employed in connection with the proposed work. I certify that the code administrator or the code administrator's authorized representative shall have the authority to enter areas covered by such permit at any reasonable hour to enforce the provisions of the code(s) applicable to such permit.

My signature below certifies that I am aware of my responsibility to have each required inspection done. No Certificate of Occupancy shall be issued without the required inspections having been completed.

Signature of Owner or Authorized Agent _____

Please Print Name of Owner or Authorized Agent _____

Signature of Builder _____ Date _____

For Code Administrator and Zoning Office Use Only

Additional Permits/ Approvals That May Be Required

- Driveway ~ Street Cut Approved _____
- Penn DOT Highway Occupancy Approved _____
- On Lot Septic Approved _____
- Zoning Approved _____
- NPDES Permit Approved _____

Approvals

Building Permit Denied Date _____ Date Returned _____

Building Permit Approved Date _____

Code Administrator _____

Zoning Officer _____

Fees

* \$56.00 Filing Fee and a \$4.00 State Administration Fee as required by Labor & Industry must be paid at time of application ~ all other fees are due prior to issuance of permit *

Building ~ Filing Fee \$56.00 - Pa. UCC Fee \$4.00 - Plan Review & Permit Fee _____
Additional Fees for Incomplete or Denied Plans _____

Electric ~ Filing Fee _____ Plan Review & Permit Fee _____
Additional Fees for Incomplete or Denied Plans _____

Plumbing ~ Filing Fee _____ Plan Review & Permit Fee _____
Additional Fees for Incomplete or Denied Plans _____

HVAC Filing Fee _____ Plan Review & Permit Fee _____
Additional Fees for Incomplete or Denied Plans _____

Certificate of Occupancy ~ See Fee Schedule _____

Heidelberg Township

PA Act 45 (Uniform Construction Code) Permit Application Addendum for Title 25, Chapter 102 Compliance

In accordance with PA Code Title 25 Chapter 102, Erosion and Sedimentation Control, and the necessity of Heidelberg Township and the Department of Environmental Protection through the Lehigh County Conservation District, to control accelerated erosion and minimize sediment pollution to waters of the Commonwealth, the following questions shall be answered to the best of your knowledge:

- 1. Does this proposed construction/project result in earth disturbance of five thousand (5,000) Square Feet or more? Yes / No
- 2. What is the anticipated total area of disturbance?

If the total area of earth disturbance is 5,000 SF or more, an Erosion and Sedimentation Control Plan must be prepared and remain on site during the entire project. This plan shall meet the requirements set forth by the Code and the Lehigh County Conservation District. This plan will need to be available for review during the entire project. This plan will be utilized by the LCCD or Heidelberg Township during site inspections of the project. Failure to have an Erosion and Sedimentation Control Plan, and implement the Erosion and Sedimentation Controls as indicated on the plan, is a violation of Chapter 102, and enforceable by the LCCD at any time.

- 3. Does the proposed construction/project result in earth disturbance of one (1.0) acre or more? Yes / No
- 3. What is the anticipated total area of disturbance?

If the total area of earth disturbance is 1 acre or more, a National Pollution Discharge Elimination System (NPDES) permit is required. The complexity of the Application is dependent on the receiving stream classification. The permit application and plans shall meet the requirements set forth by the PA Code and the Lehigh County Conservation District. No permit shall be issued by the Zoning Office until the NPDES permit is issued. This plan will need to be available for review during the entire project. This plan will be utilized by the LCCD or Heidelberg Township during site inspections of the project. Failure to have an Erosion and Sedimentation Control Plan, and implement the Erosion and Sedimentation Controls as indicated on the plan, is a violation of Chapter 102, and enforceable by the LCCD at any time.

I have answered these questions to the best of my knowledge. I further state these are the true and correct answers to these earth disturbance questions.

X _____ Date: _____
Property Owner Signature

print name

Workers' Compensation Insurance Coverage Information
(Attach to Building Permit Application)

A. The applicant is

A contractor within the meaning of the Pennsylvania Workers' Compensation Law

Yes*

No

*If the answer is "yes," complete Sections B and C below as appropriate.

B. Insurance Information

Name of Applicant _____

Federal or State Employer Identification No. _____

Applicant is a qualified self-insurer for workers' compensation.

Certificate attached

Name of Workers' Compensation Insurer _____

Workers' Compensation Insurance Policy No. _____

Certificate attached

Policy Expiration Date _____

C. Exemption

Complete Section C if the applicant is a contractor claiming exemption from providing workers' compensation insurance.

The undersigned swears or affirms that he/she is not required to provide workers' compensation insurance under the provisions of Pennsylvania's Workers' Compensation Law for one of the following reasons, as indicated:

Contractor with no employees. Contractor prohibited by law from employing any individual to perform work pursuant to this building permit unless contractor provides proof of insurance to township.

Religious exemption under the Workers' Compensation Law.

Subscribed and sworn to before me this
_____ day of _____ 20 _____

{Signature of Notary Public}

My commission expires : _____

Seal

** Notarization required if signature is not witnessed by township personnel.

Signature of Applicant _____

Address _____

County of _____

Municipality of _____

HEIDELBERG TOWNSHIP – SCHEDULE OF FEES – 2016

U.C.C. BUILDING PERMIT FEE SCHEDULE

Non-refundable Filing Fee (for all permit applications)	\$56.00
Non-refundable PA State Administration Fee (for all permit applications)	\$4.00
Township Certificate of Occupancy Fee: Residential	
Homes, pole buildings, mobile home, additions	\$50.00
Solar Panels	\$25.00
Deck, sheds, wind generator, sign, fence, pools and all others	\$15.00
Township Certificate of Occupancy Fee: Commercial	\$50.00
Change of Builder for Issued Permits	\$50.00

**For additional U.C.C. Building Permit Fees please see attached fee schedule per selected Building Inspection Service.

Heidelberg Township

CodeMaster Inspection Services

Residential Building Plan Review/Inspection Fee Schedule

Valid through December 31, 2016

BUILDING

Single Family Dwelling (including electric up to 200AMP service, plumbing & HVAC) up to 3,500 sq. ft. - \$20.00 for each additional 100 square feet	\$900.00
Additions up to 500 square feet (excluding plumbing) - \$20.00 for each additional 100 square feet	\$600.00
Renovations or Alterations up to 500 square feet (excluding plumbing) - \$15.00 for each additional 100 square feet	\$450.00
Accessory structure up to 500 square feet (excluding electric, plumbing, HVAC) - \$15.00 for each additional 100 square feet	\$250.00
Manufactured Housing - Mobile or with axle capabilities per unit (including electric) - on piers	\$275.00
Manufactured Housing - Mobile or with axle capabilities per unit (including electric) - with basement	\$475.00
Modular Housing (including electric) - up to 3,500 sq. ft. - \$20.00 for each additional 100 square feet	\$450.00
Deck/Concrete Patio up to 200 square feet - \$12.50 for each additional 100 square feet (excluding electric)	\$175.00
Minor Alteration/Demolition - 1-2 disciplines including 2 inspections	\$150.00
Above-Ground Pool/Spa (including electric)	\$150.00
In-Ground Pool (including electric)	\$300.00

PLUMBING

Up to 5 fixtures	\$75.00
Each additional fixture	\$5.00

HVAC

For First Unit (including electric) - No plan review included	\$120.00
Each additional unit	\$45.00

ELECTRIC

Service to 200 AMPS	\$100.00
Service to 400 AMPS	\$125.00
Service to 800 AMPS	\$150.00
Minor Alteration - 2 inspections	\$100.00

ALTERNATIVE ENERGY

Windmill installation - includes plan review; foundation inspection and electrical/final inspection per windmill.	\$120.00	Base fee Base Fee plus
Solar and Photovoltaic Panel System installations either roof or ground mounted including electrical.	\$150.00	\$5.00 per panel

Residential Construction Notes, Qualifications & Additional Services

A minimum fee of \$55.00 shall apply for each additional plan review re-submission or for incomplete or denied plans. Inspections only, re-inspections or additional inspections shall be invoiced at \$50.00 each.

An additional minimum fee of \$65.00 shall apply for a Certificate of Completion/Certificate of Occupancy inspection in municipalities where CodeMaster serves as Building Code Official and prior inspections have been conducted by another inspection agency.

Consultation and or attendance at meetings with applicants, Township Officials or Staff, Building Code Board of Appeal meetings or special site visits or meetings shall be invoiced at \$65.00 per hour.

Administrative Costs - Minimum 1 hour @ \$40/hour plus fraction thereof.

All windmills, ground mounted solar panel and roof mounted solar panel installations will require a structural plan (including foundation if applicable) plan showing the loading and installation design. The plan must be signed and sealed by a structural engineer licensed in the Commonwealth of Pennsylvania.

CodeMaster may require building plans and specifications to be stamped and/or sealed by a design professional licensed in the Commonwealth of Pennsylvania. This would typically apply to non-conventional type construction or structures.

Heidelberg Township

CodeMaster Inspection Services

Commercial Building Plan Review/Inspection Fee Schedule

Valid through December 31, 2016

Building Gross Square Footage	New Construction (3 or more disciplines)			Alterations and Renovations (3 or more disciplines)			1 to 2 Disciplines		
	Inspections	Unit	Plan Review	Inspections	Unit	Plan Review	Inspections	Unit	Plan Review
Change of Occupancy	N/A		\$200.00	N/A		\$200.00	N/A		\$100.00
Minor Change (1 visit)	N/A		\$200.00	N/A		\$200.00	\$110.00		\$100.00
1 to 2,000	\$700.00	Lump Sum	\$400.00	\$550.00	Lump Sum	\$400.00	\$250.00	Lump Sum	\$125.00
2,001 to 5,000	\$0.42	Per SF	\$450.00	\$0.32	Per SF	\$450.00	\$350.00	Per SF	\$150.00
5,001 to 10,000	\$0.38	Per SF	\$600.00	\$0.29	Per SF	\$600.00	\$0.08	Per SF	\$150.00
10,001 to 25,000	\$0.35	Per SF	\$700.00	\$0.26	Per SF	\$700.00	\$0.07	Per SF	\$175.00
25,001 to 50,000	\$0.32	Per SF	\$750.00	\$0.24	Per SF	\$750.00	\$0.06	Per SF	\$175.00
50,001 to 100,000	\$0.27	Per SF	\$800.00	\$0.22	Per SF	\$800.00	\$0.05	Per SF	\$200.00
100,001 to 200,000	\$0.22	Per SF	\$900.00	\$0.18	Per SF	\$900.00	\$0.04	Per SF	\$250.00
200,001 to 300,000	\$0.18	Per SF	\$1,000.00	\$0.13	Per SF	\$1,000.00	\$0.03	Per SF	\$250.00
Over 300,001	Quote		Quote	Quote		Quote	\$0.02	Per SF	\$300.00

Commercial Construction Notes and Qualifications

A minimum fee of \$250 shall apply for each additional plan review re-submission or for incomplete or denied plans.

Inspections only, re-inspections or additional inspections shall be invoiced at \$65.00 per hour.

An additional minimum fee of \$65.00 shall apply for a Certificate of Completion/Certificate of Occupancy inspection in municipalities where CodeMaster serves as Building Code Official and prior inspections have been conducted by another inspection agency.

Consultation and or attendance at meetings with applicants, Township Officials or Staff, Building Code Board of Appeal meetings or special site visits or meetings shall be invoiced at \$65.00 per hour.

Administrative Costs - Minimum 1 hour @ \$40/hour plus fraction thereof.

Windmill installation - includes plan review; foundation inspection and electrical/final inspection at \$120.00 each.

Roof mounted Solar and Photovoltaic Panel System installations including plan review and electrical. Base fee \$300.00 plus \$5.00 per panel.

Ground mounted Solar and Photovoltaic Panel System installations including plan review and electrical. Base fee \$300.00 plus \$5.00 per panel.

All commercial building plans and specifications involving a structural change, a change in the means of egress, or where an individual has been compensated must be stamped and /or sealed by a design professional licensed in the Commonwealth of Pennsylvania.

BLUE MOUNTAIN INSPECTION SERVICE LLC
6 Old State Road
New Ringgold, PA 17960
Phone: 570.943.2577
Fax: 570.943.3031

Heidelberg Township Inspection Pricing 2016

Residential Pricing:

Total gross square feet includes all floors, basements, crawlspaces, garages, and covered breezeways, porches, decks, or patios.

The price includes all inspections and plan review.

New Homes up to 2500 square feet \$ 15.00 per 100 square feet over 2500	\$750.00
Additions up to 2000 square feet \$ 15.00 per 100 square feet over 2000	\$630.00
Modular homes No square foot limit	580.00
Manufactured home On piers	280.00
Manufactured home On full foundation	425.00
Pole buildings or accessory structures Over 1,000 square feet as per PA UCC Law	325.00
Above ground pool or Spa	125.00
In ground pools	255.00
Decks over 30 inches above the ground	195.00
Residential Solar panels installed on a roof	225.00
Residential Solar panels installed on a ground mounted System	275.00
Residential 200 amp electric service inspection	90.00
Residential 400 amp electric service inspection	105.00
Demolition Permit	85.00

Fences above 6 feet require inspections as per the UCC regulations. There are usually 2 inspections required for fencing. Total cost for inspections and plan review is \$100.00.

Retaining walls are priced per project. The height and the design of the retaining walls determines how many inspections are required. We have had retaining walls that took 2 inspections and one that took 15 inspections.

Commercial Pricing:

New Construction and additions

The minimum fee is \$750.00, which includes the plan review. The square foot price for new projects can vary between .55 and .25 per square foot. We have decided that all commercial jobs will be quoted on a per job basis. We feel that this is better because it will be less expensive to inspect a 100,000 square foot warehouse verses a 100,000 square foot hotel. The price quoted would include all inspections and plan reviews.

All alterations to an existing building will be quoted. All alterations to a building are not the same so it is hard to set a price on an alteration. One alteration can be very easy where the next alteration at the same size can be more complex.

General

Re-inspections or additional inspections are priced at \$60.00 each.

Extra plan reviews are priced at \$60.00 per hour.

The above prices do not include the \$ 4.00 state permit fee or any postage handling fees that may be incurred.

All prices include the Certificate of Occupancy where Blue Mountain Inspection Service LLC is the BCO.



1209 Hausman Road, Suite B
Allentown, PA 18104-9300
TEL 484-223-0763
FAX 484-223-0768
info@codemaster.info

Residential Plan Submittal Guide

The construction plans shall consist of the following:

- Elevation Drawings** (Indicating the heights, and finished grade)
- Floor Plans** (Indicate all the room sizes and label their use, and the location and sizes of all the windows and doors.)
- Foundation Plan**
- Roof Framing Plan**
- Cross Section of the structure**
- Plans shall be to scale or have all the dimensions noted on the plans.**

Please submit 3 sets (unless otherwise instructed) of complete construction plans that include the following:

1. ___ **All the design criteria shall be noted on the plans.**
2. ___ **Bathroom and/or powder room fixture layout (to scale)**
3. ___ **Safety glass locations (Glass next to stairs, tub/showers, doors, floors)**
4. ___ **Fire ratings of walls and/or doors (Garages and/or Townhouse separations, exterior walls less than 5 feet from a property line)**
5. ___ **Basement and Sleeping room egress compliance (Type and size of window well if applicable)**
6. ___ **Stair (Width, landing size and location, also the step rise, and step run)**
7. ___ **Handrails (Height, size, and location)**
8. ___ **Guardrails (Height, spacing, and location)**
9. ___ **Stair lighting (Over the stairs or one at each landing)**
10. ___ **Ramps (Slope, landings, handrail, guards)**
11. ___ **Smoke detectors (Type, power source, locations)**
12. ___ **Soil type on the construction site. (Check the site soil and compare the soil to the soils table in chapter 4 of the 2006 International Residential Code.)**
13. ___ **Footing size (Including any interior piers or any other piers)**
14. ___ **Concrete (Indicate concrete strength for all concrete)**
15. ___ **Footer (Depth below frost line: 36 inch minimum)**
16. ___ **Foundation (Type, wall thickness, re-bar size & spacing, wall height, height of unbalanced fill)**
17. ___ **Type of foundation coating (Damp-proofing, water-proofing)**
18. ___ **Foundation exterior drains (With stone and an approved filter membrane)**
19. ___ **Foundation anchoring (Anchor bolts/straps, size and spacing, as well as joist clips: per section R404 of the International Residential Code 2006 edition)**
20. ___ **Sill plate (Type and size)**
21. ___ **Columns/Posts (Sizes and method of anchoring)**
22. ___ **Crawl space (Access, indicate one of the following vented or conditioned, and indicate how it will be vented or conditioned.)**
23. ___ **Concrete slab (Thickness, vapor barrier)**
24. ___ **Floor joists (Size, type, cantilever distances, and spacing)**
25. ___ **Beams (Types, sizes, spans, and loading information)**
26. ___ **Framing around openings (Indicate the number of framing members around an opening in the following systems: floor, ceiling, and roof)**

27. ___ **Floor sheathing** (Type and thickness)
28. ___ **Wall construction** (Stud size and spacing, sheathing type and size, type and location of wall wind bracing)
29. ___ **Headers** (Size and type of typical headers)
30. ___ **Window sill heights** (Any sill height less than 24 inches off the floor the window may not open greater than 4 inches, if the window sill is equal to or greater than 72 inches above the finished grade.)
31. ___ **Interior wall coverings** (Size and type of all coverings; moisture resistant wall board is not permitted in shower/tub areas, or used for a tile backer board.)
32. ___ **Exterior wall coverings** (Size and type of all coverings, provide details for masonry installations)
33. ___ **Ceiling Joists** (Size, type, and spacing)
34. ___ **Bearing walls** (All bearing walls shall be within 1 foot horizontally of the beam or bearing wall below. The loads shall stack.)
35. ___ **Roof pitches** (Indicate the pitches of all the roofs)
36. ___ **Roof rafters** (Size, type, and spacing. If trusses are to be used provide the PA engineer sealed truss designs)
37. ___ **Hip and valley rafters** (Indicate the size of all hip and valley rafters. All hip and valley rafters shall be posted down to a bearing wall or properly sized beam where the hip or valley meets the ridge.)
38. ___ **Rafter ties** (Rafter ties shall be 4 feet on center to tie the rafters together where the ceiling joists are not parallel to the rafters)
39. ___ **Structural ridge beam** (Where the ceiling joists are deleted a properly size ridge beam shall be designed)
40. ___ **Attic access** (Size and location of the opening for all attic areas)
41. ___ **Roof Sheathing** (Size, type, and thickness)
42. ___ **Roof Covering** (Felt paper, ice guard, and type of roofing material)
43. ___ **Roof ventilation** (Method of ventilation to comply with the 1/150 ratio)
44. ___ **Fireplaces** (Manufactured fireplaces, wood or gas, provide the installation instructions, if masonry provide construction details)
45. ___ **Insulation/Energy** (Provide information on which Energy path will be used, along with the design, notes, and/or calculations to support the path: 2006 IRC chapter 11, 2006 PA Alternative Energy Provisions www.dli.state.pa.us, or RES-check www.doe.gov .)
46. ___ **Heating and Air Conditioning** (Provide heating, ventilation, and air conditioning information, locations, and designs, including the type of fuel and efficiencies. All appliances shall be listed and labeled.)
47. ___ **Gas piping** (Provide the type of piping material, appliance loads, and pipe sizing)
48. ___ **Plumbing** (Provide the type of piping and sizing for the water supply and the drainage system.)
49. ___ **Electrical** (Indicate the locations of all the switches, receptacles, lighting outlets, and appliance feeds.)