

BLOCK 1383 LOT 10, 11, 12 QUALIFICATION CODE \_\_\_\_\_

ADDRESS (SITE) 1657 W. Princeton Ave

PERMIT NO. 06-0727



# CONSTRUCTION PERMIT APPLICATION

Applicant Completes: Sections I, II, III (optional), IV, VI, and VII

## I. IDENTIFICATION

1. Proposed Work Site at: 1657 WEST Princeton Ave BRICK N.J.  
 2. Name of Owner in Fee: Mr + Mrs. GRATHAM AVE Tel. ( ) 08724  
 Address SAME street SAME municipality 08724 zip code  
 3. Ownership in fee: Public \_\_\_\_\_ Private ☒  
 4. Principal Contractor: E.J.S. Home Improvements Tel. (732) 840-4994  
 Address 1679 WEST Princeton Ave BRICK N.J. 08724  
 License No. OR, if new home Builder Reg. No. 13VH01350300 Exp. Date 12/31/06  
 Federal Employee ( ) \_\_\_\_\_ FAX: ( ) \_\_\_\_\_  
 5. Architect or Engineer: Daniel Fortunato Tel. (609) 683-0690  
 Address 98 Fairview Rd Princeton N.J. 08540 Contact \_\_\_\_\_  
 6. Responsible Person in Charge once Work has Begun Edward J. Serafin Jr  
 Tel. (732) 840-4994 FAX: ( ) \_\_\_\_\_

## V. FEE SUMMARY (for office use only)

|                                   |    |     |        |     |
|-----------------------------------|----|-----|--------|-----|
| 1. Building                       | \$ | 160 | Update | 13  |
| 2. Electrical                     | \$ | 110 |        | 368 |
| 3. Plumbing                       | \$ | 90  |        | 50  |
| 4. Fire Protection                | \$ | 45  |        |     |
| 5. Elevator Devices               | \$ |     |        |     |
| 6. Subtotal                       | \$ |     |        |     |
| 7. Less 20% for State Plan Review | \$ |     |        |     |
| 8. Subtotal                       | \$ | 23  | 1      | 21  |
| 9. State Permit Fee Surcharge     | \$ |     |        |     |
| 10. Subtotal                      | \$ | 25  |        |     |
| 11. Cert. of Occupancy            | \$ |     |        |     |
| 12. Other Z H & E D               | \$ | 60  |        |     |
| 13. TOTAL                         | \$ | 503 |        | 532 |

## VI. BUILDING/SITE CHARACTERISTICS

1. Number of Stories One  
 2. Height of Structure 14' ft.  
 3. Area — Largest Floor 980 sq. ft.  
 4. New Building Area 572 sq. ft.  
 5. Volume of New Structure 5050 cu. ft.  
 6. Construction Classification Single Family Dwelling  
 7. Total Land Area Disturbed 956 sq. ft.  
 8. Flood Hazard Zone NO  
 9. Base Flood Elevation \_\_\_\_\_ ft.  
 10. Wetlands yes \_\_\_\_\_ no \_\_\_\_\_  
 11. Max. Live Load 40 lbs  
 12. Max. Occupancy Load \_\_\_\_\_

(office use only)

*15<sup>+</sup> story add w/deck*

## OPTIONAL (for office use only)

| II. PROPOSED WORK                                   | Est. Cost | Plans Rec'd | Date Rec'd | Rejection Date | Approval Date | Re-viewer | Resubmission Dates | Re-viewer |
|-----------------------------------------------------|-----------|-------------|------------|----------------|---------------|-----------|--------------------|-----------|
| 1. <input type="checkbox"/> Minor Work              |           |             |            |                |               |           |                    |           |
| 2. <input type="checkbox"/> New Building            |           |             |            |                |               |           |                    |           |
| 3. <input checked="" type="checkbox"/> Addition     | 50,000    |             | 3/14/06    |                | 3/20/06       |           | 4/20/06            |           |
| 4. <input type="checkbox"/> a. Repair               |           |             |            |                |               |           |                    |           |
| <input type="checkbox"/> b. Alteration              |           |             |            |                |               |           |                    |           |
| <input type="checkbox"/> c. Renovation              |           |             |            |                |               |           |                    |           |
| <input type="checkbox"/> d. Reconstruction          |           |             |            |                |               |           |                    |           |
| 5. <input type="checkbox"/> Fire Protection         |           |             |            |                |               |           |                    |           |
| 6. <input checked="" type="checkbox"/> Plumbing     | 4,000     |             |            |                | 3/1/06        |           | 4/20/06            |           |
| 7. <input checked="" type="checkbox"/> Electrical   | 3,500     |             |            |                | 3/15/06       |           | 4/20/06            |           |
| 8. <input type="checkbox"/> Elevator Devices        |           |             |            |                |               |           |                    |           |
| 9. <input type="checkbox"/> Asbestos Abat. Subch. 8 |           |             |            |                |               |           |                    |           |
| 10. <input type="checkbox"/> Lead Hazard Abatement  |           |             |            |                |               |           |                    |           |
| 11. <input checked="" type="checkbox"/> Demolition  | 3000      | CW          | 7/28/06    |                | 7/28/06       |           |                    |           |
| TOTAL COSTS                                         |           |             |            |                |               |           |                    |           |

## VII. DESCRIPTION OF BUILDING USE

### A. RESIDENTIAL

1. State Specific Use:
2. Use Group:
3. Change in Use Group, Indicate Former:

### 4. No. of dwelling units:

Before Construction \_\_\_\_\_  
 After Construction \_\_\_\_\_  
 Net Gain or Loss \_\_\_\_\_

### B. NON-RESIDENTIAL

1. State Specific Use:
2. Use Group:
3. Change in Use Group, Indicate Former:

## III. DO YOU WANT: (optional)

1. ☐ Partial Releases
2. ☐ Prototype Processing

## IV. DOES OR WILL YOUR BUILDING CONTAIN ANY OF THE FOLLOWING?

1. ☐ Elevators/Escalators/Lifts/  
Dumbwaiters/Moving Walks
2. ☐ High Pressure Boilers
3. ☐ Pressure Vessels
4. ☐ Refrigeration Systems
5. ☐ Cross-Connections/Backflow Preventers
6. ☐ Hazardous Uses/Places of Assembly
7. ☐ Sprinklers
8. ☐ Smoke Control Systems in Open Wells
9. ☐ Underground Storage Tanks
10. ☐ Swimming Pools, Spas and Hot Tubs

**CERTIFICATION IN LIEU OF OATH**

**I. OWNER SECTION (to be completed if the applicant is the owner in fee)**

I hereby certify that I am the owner in fee of the property listed on Page 1.

Mark the following applicable boxes:

- A. ☐ I further certify that a new home (private residence) will be constructed on this property for my own use and occupancy. This dwelling is to be occupied by myself and is not to be used for any purpose other than single family residential use. I attest that all construction, plumbing, or electrical work will be done, in whole or in part, by me or by subcontractors under my supervision, in accordance with all applicable laws; and, I further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.S.A. 46:3B-1 et seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

I UNDERSTAND THAT IN MARKING BOX A, I ACKNOWLEDGE THAT I AM ASSUMING RESPONSIBILITY FOR THE WORK DONE ON SAID PROPERTY, THE CONDITION OF THE PROPERTY PRIOR TO, DURING, AND AFTER ANY WORK PERFORMED, AND FOR THE PERFORMANCE OF THE SUBCONTRACTORS I HIRE, EMPLOY, OR OTHERWISE CONTRACT OR WITH WHOM I MAKE AGREEMENTS TO PERFORM WORK. I AM VOLUNTARILY AND KNOWINGLY ASSUMING THIS RESPONSIBILITY.

- B. ☐ I further certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(e)1.vii:

I personally prepared the plans submitted for: 1) the new home referred to in A., or 2) an addition, alteration, renovation, or repair to an existing single family residence owned and occupied by myself and located on the property listed on Page 1; or 3) a new structure that will be physically separate from, but that will be deemed part of, an existing single family residence that is owned and occupied by myself and located on the property listed on Page 1.

- C. ☐ I further certify that I will perform or supervise the following work:

C.1. ☐ Building                      C.2. ☐ Fire Protection

I further certify that I will perform the following work:

C.3. ☐ Electrical                      C.4. ☐ Plumbing

- D. ☐ I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I understand that if any of the above statements are willfully false, I am subject to punishment.

Signature \_\_\_\_\_ Date \_\_\_\_\_

**II. AGENT SECTION (to be completed if the applicant is not the owner in fee)**

I hereby certify the following as required by the Uniform Construction Code, N.J.A.C. 5:32-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

☒ Check if contractor.

Agent Name Edward J. Serafin Jr.

Address 1679 WEST PRINCETON AVE BRICK N.J. 08724

Telephone (732) 840-4994

Signature Edward J. Serafin Jr.

**III. ☐ LEAD HAZARD ABATEMENT: Include Homeowner or Building Owner Affidavit as per N.J.A.C. 5:17.**

OFFICE DATE RECEIVED: \_\_\_\_\_

| VIII. PRIOR APPROVALS CHECKLIST<br>(office use only)                 | LOCAL APPROVAL    |            | COUNTY APPROVAL   |            | REGIONAL APPROVAL |            | STATE APPROVAL    |            | COMMENTS |
|----------------------------------------------------------------------|-------------------|------------|-------------------|------------|-------------------|------------|-------------------|------------|----------|
|                                                                      | Prelimin. Initial | Final Date | Prelimin. Initial | Final Date | Prelimin. Initial | Final Date | Prelimin. Initial | Final Date |          |
| <input type="checkbox"/> Zoning Officer                              |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/> Planning Board                              |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/> Zoning Board                                |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/> Sewer Authority                             |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/> Water Authority                             |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/> Police Department                           |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/> Health Department                           |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/> Soil Conservation                           |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/> N.J. Department of Community Affairs        |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/> N.J. Department of Transportation           |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/> N.J. Department of Environmental Protection |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/> Utility Dig No.                             |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/>                                             |                   |            |                   |            |                   |            |                   |            |          |
| <input type="checkbox"/>                                             |                   |            |                   |            |                   |            |                   |            |          |

**IX. SUBCODES AND SPECIAL REGULATIONS APPLICABLE (office use only—optional)**

| Name of Code & Edition | Name of Code & Edition         | Other       |
|------------------------|--------------------------------|-------------|
| Building _____         | Energy _____                   | Other _____ |
| Electrical _____       | Barrier Free _____             |             |
| Plumbing _____         | Flood Hazard _____             |             |
| Fire Protection _____  | As Built Elevation Cert. _____ |             |
| Mechanical _____       | Other _____                    |             |

| X. CERTIFICATES ISSUED (office use only)                      | DATE ISSUED | DATE EXPIRED | DATE REISSUED | DATE EXPIRED |
|---------------------------------------------------------------|-------------|--------------|---------------|--------------|
| <input type="checkbox"/> Temporary Certificate of Occupancy   | No. _____   | _____        | _____         | _____        |
| <input type="checkbox"/> Temporary Certificate of Compliance  | No. _____   | _____        | _____         | _____        |
| <input type="checkbox"/> Continued Certificate of Occupancy   | No. _____   | _____        | _____         | _____        |
| <input type="checkbox"/> Certificate of Compliance            | No. _____   | _____        | _____         | _____        |
| <input type="checkbox"/> Certificate of Occupancy             | No. _____   | _____        | _____         | _____        |
| <input type="checkbox"/> Certificate of Approval              | No. _____   | _____        | _____         | _____        |
| <input type="checkbox"/> Lead Abatement Clearance Certificate | No. _____   | _____        | _____         | _____        |

2/28/06 Jot

**ANY BUILDING QUESTIONS  
CALL 732-262-1027**

[illegible]

Initialed: 

☒ Zoning Application deemed complete

☐ Zoning Application approved

☐ Zoning permit updates:

---

---



Brick Township  
401 Chambersbridge Rd  
Brick, NJ 08723

Date Issued 8/13/2007  
Tracking Number C-06-0789  
Permit Number 06-0727  
Permit Issue Date 3/17/2006  
Certificate Number 06-0727

## Certificate

Construction Code Division  
(Certificate of Occupancy)

### Identification

Work Site Location: 1657 W. PRINCETON AVE. Brick Township, Block: 831 Lot: 10 Qual:  
NJ  
Owner in Fee: ABEL, GRAHAM & ANNA M.  
Owner Address: 1657 W. PRINCETON AVE. BRICK NJ 08724  
Telephone: [REDACTED]  
Contractor: EJS HOME IMPROVEMENTS  
Address: 1679 WEST PRINCETON AVENUE BRICK NJ 08724  
Telephone: (732) 840-4994 Fax: \_\_\_\_\_  
License Number or Builders Registration Number: 13VH01350300 Federal Emp. Number: \_\_\_\_\_  
Home Warranty Number: \_\_\_\_\_  
Type of Warranty Plan: ☐ State ☐ Private  
Use Group: R-5 Construction Classification: \_\_\_\_\_  
Maximum Live Load: 0 Maximum Occupancy Load: 0  
Description of Work Use:  
DECK, RESIDENTIAL ADDITION CONSTRUCT 1-STORY ADDITION/DECK AND RAMP

Certificate Comments:

☒ **Certificate of Occupancy**

This serves notice that said building or structure has been constructed in accordance with the New Jersey Uniform Construction Code and is approved for occupancy.

☐ **Certificate of Approval**

This serves notice that the work completed has been constructed or installed in accordance with the New Jersey Uniform Construction Code and is approved. If the permit was issued for minor work, this certificate was based upon what was visible at the time of inspection.

☐ **Certificate of Continued Occupancy**

This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

☐ **Temporary Certificate of Compliance**

The following conditions must be met no later than or the owner will be subject to fine or order to vacate:  
This certificate has an expiration date of:

**Conditions to be met:**

☐ **Certificate of Clearance - Lead Abatement 5:17**

This serves notice that based on written certification, lead abatement was performed as per NJAC5:17 to the following extent.

- ☐ Total removal of lead-based paint hazards in scope of work  
☐ Partial or limited time period (     years); see file

☐ **Certificate of Clearance - Asbestos Abatement**

This serves notice that based on written certification, asbestos abatement was performed to the following extent.

- ☐ Total removal of asbestos hazards in scope of work  
☐ Partial or limited time period (     years); see file

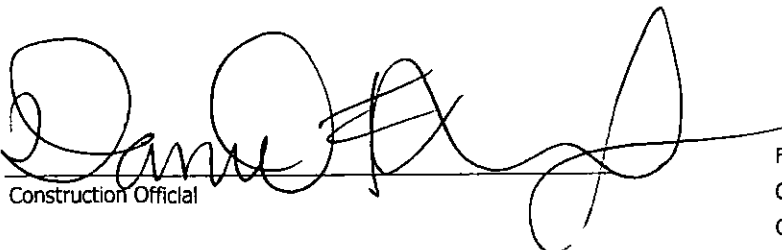
☐ **Certificate of Compliance**

This serves notice that said potentially hazardous equipment has been installed and/or maintained in accordance with the New Jersey Uniform Construction Code and is approved for use until

☐ **Temporary Certificate of Occupancy**

The following conditions must be met no later than:  
or the owner will be subject to fine or order to vacate:  
This certificate has an expiration date of:

**Conditions to be met:**

  
Construction Official

Fee: \$35.00  
Check Number: 1007  
Collected By: Ellen Privett

Date Printed: 8/13/2007

Page 1



# CONSTRUCTION PERMIT

Date Issued 03/17/2006  
Control # C-06-0789  
Permit # 06-0727

IDENTIFICATION Block: 831 Lot: 10 Qualifier  
Work Site Location: 1657 W. PRINCETON AVE. Brick Township, NJ Contractor EJS HOME IMPROVEMENTS  
Address 1679 WEST PRINCETON AVENUE BRICK NJ 08724  
Owner in Fee ABEL, GRAHAM & ANNA M.  
Address 1657 W. PRINCETON AVE. BRICK NJ 08724 Telephone: (732) 840-4994  
Telephone: [REDACTED] Lic. No. or Bldrs. Reg. No.  
Federal Employee No.

Is hereby granted permission to perform the following work:

- |                                                |                                                                    |                                                |
|------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------|
| <input checked="" type="checkbox"/> BUILDING   | <input checked="" type="checkbox"/> PLUMBING                       | <input type="checkbox"/> LEAD HAZARD ABATEMENT |
| <input checked="" type="checkbox"/> ELECTRICAL | <input checked="" type="checkbox"/> FIRE PROTECTION                | <input type="checkbox"/> DEMOLITION            |
| <input type="checkbox"/> ELEVATOR DEVICES      | <input type="checkbox"/> ASBESTOS ABATEMENT<br>(Subchapter 8 only) | <input type="checkbox"/> OTHER                 |

DESCRIPTION OF WORK:

DECK, RESIDENTIAL ADDITION CONSTRUCT 1-STORY ADDITION/DECK AND RAMP

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.  
Estimated Cost of Work \$8,100

Construction Official \_\_\_\_\_ Date 03/17/2006

U.C.C. F170  
equiv (rev 8/03)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

## PAYMENTS (Office Use Only)

|                  |               |
|------------------|---------------|
| Building         | \$160         |
| Electrical       | \$110         |
| Plumbing         | \$90          |
| Fire Protection  | \$45          |
| Elevator Devices | \$0           |
| Other            | \$0.00        |
| DCA Training Fee | \$23          |
| CO Fee           | \$35.00       |
| Other            | \$60          |
| Total            | \$523         |
| Check No.        | 1007          |
| Cash             | \$0           |
| Credit           | \$0           |
| Collected By     | Ellen Privett |

## REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☐ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.



# PERMIT UPDATE

Date Update Issued 07/28/2006  
Control # C-06-103453  
Permit # 06-0727+A

IDENTIFICATION Block: 831 Lot: 10 Qualifier  
Work Site Location: 1657 W. PRINCETON AVE. Brick Township, NJ Contractor EJS HOME IMPROVEMENTS  
Address 1679 WEST PRINCETON AVENUE BRICK NJ 08724  
Owner in Fee ABEL, GRAHAM & ANNA M.  
Address 1657 W. PRINCETON AVE. BRICK NJ 08724 Telephone: (732) 840-4994  
Lic. No. or Bldrs. Reg. No.  
Federal Employee No.

Is hereby granted permission to perform the following work:

- |                                           |                                                                    |                                                |
|-------------------------------------------|--------------------------------------------------------------------|------------------------------------------------|
| <input type="checkbox"/> BUILDING         | <input checked="" type="checkbox"/> PLUMBING                       | <input type="checkbox"/> LEAD HAZARD ABATEMENT |
| <input type="checkbox"/> ELECTRICAL       | <input type="checkbox"/> FIRE PROTECTION                           | <input type="checkbox"/> DEMOLITION            |
| <input type="checkbox"/> ELEVATOR DEVICES | <input type="checkbox"/> ASBESTOS ABATEMENT<br>(Subchapter 8 only) | <input type="checkbox"/> OTHER                 |

DESCRIPTION OF WORK:

WATER SERVICE CONNECTION CONSTRUCT 1-STORY ADDITION/DECK AND RAMP

Note: If construction does not commence within one (1) year of date of issuance, or it construction ceases for a period of six (6) months, this permit is void.  
Estimated Cost of Work \$600

Construction Official

Date

U.C.C. F170  
equiv (rev 8/03)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

## PAYMENTS (Office Use Only)

|                  |                   |
|------------------|-------------------|
| Building         | \$0               |
| Electrical       | \$0               |
| Plumbing         | \$50              |
| Fire Protection  | \$0               |
| Elevator Devices | \$0               |
| Other            | \$0.00            |
| DCA Training Fee | \$1               |
| CO Fee           |                   |
| Other            | \$0               |
| Total            | \$51              |
| Check No.        | 1020              |
| Cash             | \$0               |
| Credit           | \$0               |
| Collected By     | Stephanie Capozzi |

## REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☐ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.



# PERMIT UPDATE

Date Update Issued 8/17/2006  
Control # C-06-103761  
Permit # 06-0727+B

IDENTIFICATION Block: 831 Lot: 10 Qualifier  
Work Site Location: 1657 W. PRINCETON AVE. Brick Township, NJ Contractor EJS HOME IMPROVEMENTS  
Address 1679 WEST PRINCETON AVENUE BRICK NJ 08724  
Owner in Fee ABEL, GRAHAM & ANNA M.  
Address 1657 W. PRINCETON AVE. BRICK NJ 08724 Telephone: (732) 840-4994  
Telephone: [REDACTED] Lic. No. or Bldrs. Reg. No.  
Federal Employee No.

Is hereby granted permission to perform the following work:

- ☒ BUILDING ☒ PLUMBING ☐ LEAD HAZARD ABATEMENT  
☒ ELECTRICAL ☐ FIRE PROTECTION ☐ DEMOLITION  
☐ ELEVATOR DEVICES ☐ ASBESTOS ABATEMENT (Subchapter 8 only) ☐ OTHER

## DESCRIPTION OF WORK:

ALTERATION, ELECTRICAL ALTERATIONS, PLUMBING ALTERATIONS CONSTRUCT  
1-STORY ADDITION/DECK AND RAMP  
UPDATE +B RENOVATE EXISTING KITCHEN AND RENOVATE 2ND FLOOR BATH

Note: If construction does not commence within one (1) year of date of issuance, or it construction ceases for a period of six (6) months, this permit is void.  
Estimated Cost of Work \$20,500

Construction Official

Date

U.C.C. F170  
equiv (rev 8/03)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

## PAYMENTS (Office Use Only)

|                  |                   |
|------------------|-------------------|
| Building         | \$360             |
| Electrical       | \$95              |
| Plumbing         | \$50              |
| Fire Protection  | \$0               |
| Elevator Devices | \$0               |
| Other            | \$0.00            |
| DCA Training Fee | \$27              |
| CO Fee           |                   |
| Other            | \$0               |
| Total            | \$532             |
| Check No.        | 1208              |
| Cash             | \$0               |
| Credit           | \$0               |
| Collected By     | Mary Jane Rinaldi |

## REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☐ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.





# BUILDING SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO. 1-800-272-1000.

Block 1583 Lot 10.11.12 Qualification Code 08734

Work Site Location 1657 WEST STURGEON AVE BRICK N.J.

Owner in Fee Mr. Mrs. Creation Able

Address Same

Tel. [Redacted]

Contractor C.J.S. Home Improvements

Address 1679 WEST STURGEON AVE BRICK N.J. 08724

Tel. (732) 840-4994 FAX ( )

Contractor License No. or Builder Registration No. 13VH013500.300

Federal Emp. No.

## JOB SUMMARY (Office Use Only)

| PLAN REVIEW                                                                                                                    | Date    | Initial | INSPECTIONS                                              | Failure | Dates (Month/Day) | Approval | Initial |
|--------------------------------------------------------------------------------------------------------------------------------|---------|---------|----------------------------------------------------------|---------|-------------------|----------|---------|
| <input checked="" type="checkbox"/> No Plans Required                                                                          |         |         | <input checked="" type="checkbox"/> Footing              |         | 4/18/06           |          |         |
| <input checked="" type="checkbox"/> All                                                                                        | 3-20-07 |         | <input checked="" type="checkbox"/> Footing Bonding      |         | 4/18/06           |          |         |
| <input type="checkbox"/> Foundation                                                                                            |         |         | <input checked="" type="checkbox"/> Foundation           |         | 6/18/06           |          |         |
| <input type="checkbox"/> Frame                                                                                                 |         |         | <input checked="" type="checkbox"/> Slab                 |         | 6/18/06           |          |         |
| <input type="checkbox"/> Other                                                                                                 |         |         | <input checked="" type="checkbox"/> Truss Sys./Bracing   |         | 6/18/06           |          |         |
| Joint Plan Review Required:                                                                                                    |         |         | <input checked="" type="checkbox"/> Barrier-Free         |         | 6/18/06           |          |         |
| <input type="checkbox"/> Elec. <input type="checkbox"/> Plumb. <input type="checkbox"/> Fire <input type="checkbox"/> Elevator |         |         | <input checked="" type="checkbox"/> Insulation           |         | 6/18/06           |          |         |
| SUBCODE APPROVAL                                                                                                               |         |         | <input checked="" type="checkbox"/> Finishes -Base Layer |         | 6/18/06           |          |         |
| <input type="checkbox"/> CO <input type="checkbox"/> CCO                                                                       | 6-20-07 | CA      | <input checked="" type="checkbox"/> Energy               |         | 6-18-06           |          |         |
| Date:                                                                                                                          | 6-20-07 |         | <input checked="" type="checkbox"/> Mechanical           |         | 6-18-06           |          |         |
| Approved by:                                                                                                                   |         |         | <input checked="" type="checkbox"/> TCO                  |         | 6/18/06           |          |         |
|                                                                                                                                |         |         | <input checked="" type="checkbox"/> Other                |         | 6/18/06           |          |         |
|                                                                                                                                |         |         | <input checked="" type="checkbox"/> Final                |         | 6/18/06           |          |         |
|                                                                                                                                |         |         | <input checked="" type="checkbox"/> Barrier-Free         |         | 6/18/06           |          |         |

## B. BUILDING CHARACTERISTICS

| Use Group                 | Present     | Proposed | Est. Cost of Bldg. Work:        |
|---------------------------|-------------|----------|---------------------------------|
| Constr. Class             | Present     | Proposed | 1. New Bldg. \$ <u>50,000</u>   |
| No. of Stories            | <u>One</u>  |          | 2. Rehabilitation \$ <u> </u>   |
| Height of Structure       | <u>14</u>   |          | 3. Total (1+2) \$ <u>50,000</u> |
| Area — Largest Floor      | <u>980</u>  |          |                                 |
| New Bldg. Area/All Floors | <u>572</u>  |          |                                 |
| Volume of New Structure   | <u>5050</u> |          |                                 |
| Total Land Area Disturbed | <u>956</u>  |          |                                 |

## C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Signature Richard G. Gendron

## D. TECHNICAL SITE DATA

### DESCRIPTION OF WORK

Construct one story Addition, Deck & Ramp as per drawings. Alterations #1 and #2 in construction notes not to be done at this time. Checklist must be signed. Sheathing inspection. Required.

| TYPE OF WORK:                                              | Height (exceeds 6') | Sq. Ft. | FEE (Office Use Only) |
|------------------------------------------------------------|---------------------|---------|-----------------------|
| <input type="checkbox"/> New Building                      |                     |         |                       |
| <input checked="" type="checkbox"/> Addition               |                     |         |                       |
| <input type="checkbox"/> Rehabilitation                    |                     |         |                       |
| <input type="checkbox"/> Roofing                           |                     |         |                       |
| <input type="checkbox"/> Siding                            |                     |         |                       |
| <input type="checkbox"/> Fence                             |                     |         |                       |
| <input type="checkbox"/> Sign                              |                     |         |                       |
| <input type="checkbox"/> Pool                              |                     |         |                       |
| <input type="checkbox"/> Asbestos Abatement Subchapter 8   |                     |         |                       |
| <input type="checkbox"/> Lead Haz. Abatement NJAC 5:17     |                     |         |                       |
| <input checked="" type="checkbox"/> Other <u>Deck/Ramp</u> |                     |         |                       |
| <input type="checkbox"/> Demolition                        |                     |         |                       |

|                               |  |
|-------------------------------|--|
| Administrative Surcharge \$   |  |
| Minimum Fee \$                |  |
| State Permit Surcharge Fee \$ |  |
| TOTAL FEE \$                  |  |

Date Received 3-17-06  
Control # 0670727  
Date Issued    
Permit #

00-178

4/24/06 mw - Pentech Found. App-

- ① OK to backfill only
- ② Chk @ O.D.
- ③ CHU cells to ~~be~~ filled flush with the Top of Block-

7/10/12  
7/10/12



# BUILDING SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 431 Lot 101112 Qualification Code \_\_\_\_\_

Work Site Location 1657 WEST STREET RD BRICK NJ 08724

Owner In Fee Mrs. MRS. COLEMAN AVE

Address same

Tel. [redacted]

Contractor E. J. S. Howe Inc. 1657 WEST STREET RD BRICK NJ 08724

Address 1657 WEST STREET RD BRICK NJ 08724

Tel. (732) 840-4944 FAX ( ) \_\_\_\_\_

Contractor License No. or Builder Registration No. 13VH13500 300

Federal Emp. No. \_\_\_\_\_

## JOB SUMMARY (Office Use Only)

| PLAN REVIEW                                                                                                                    | Date          | Initial | INSPECTIONS           | Failure | Dates (Month/Day) | Initial |
|--------------------------------------------------------------------------------------------------------------------------------|---------------|---------|-----------------------|---------|-------------------|---------|
|                                                                                                                                |               |         | Type:                 |         |                   |         |
| <input type="checkbox"/> No Plans Required                                                                                     |               |         | Footings              |         |                   |         |
| <input checked="" type="checkbox"/> All                                                                                        | <u>3-2-04</u> |         | Footings Bonding      |         |                   |         |
| <input checked="" type="checkbox"/> Footing                                                                                    |               |         | Foundation            |         |                   |         |
| <input type="checkbox"/> Foundation                                                                                            |               |         | Slab                  |         |                   |         |
| <input type="checkbox"/> Frame                                                                                                 |               |         | Frame                 |         |                   |         |
| <input type="checkbox"/> Other                                                                                                 |               |         | Truss Sys./Bracing    |         |                   |         |
| Joint Plan Review Required:                                                                                                    |               |         | Barrier-Free          |         |                   |         |
| <input type="checkbox"/> Elec. <input type="checkbox"/> Plumb. <input type="checkbox"/> Fire <input type="checkbox"/> Elevator |               |         | Insulation            |         |                   |         |
| SUBCODE APPROVAL                                                                                                               |               |         | Finishes - Base Layer |         |                   |         |
| <input type="checkbox"/> CO <input type="checkbox"/> CCO <input type="checkbox"/> CA                                           |               |         | Finishes - Final      |         |                   |         |
| Date:                                                                                                                          |               |         | Energy                |         |                   |         |
| Approved by:                                                                                                                   |               |         | Mechanical            |         |                   |         |
|                                                                                                                                |               |         | TCO                   |         |                   |         |
|                                                                                                                                |               |         | Other                 |         |                   |         |
|                                                                                                                                |               |         | Final                 |         |                   |         |
|                                                                                                                                |               |         | Barrier-Free          |         |                   |         |

## B. BUILDING CHARACTERISTICS

| Use Group                 | Present     | Proposed | Est. Cost of Bldg. Work:        |
|---------------------------|-------------|----------|---------------------------------|
| Constr. Class             | Present     | Proposed | 1. New Bldg. \$ <u>50,000</u>   |
| No. of Stories            | <u>2</u>    |          | 2. Rehabilitation \$ _____      |
| Height of Structure       | <u>14</u>   |          | 3. Total (1+2) \$ <u>50,000</u> |
| Area — Largest Floor      | <u>980</u>  |          |                                 |
| New Bldg. Area/All Floors | <u>572</u>  |          |                                 |
| Volume of New Structure   | <u>5250</u> |          |                                 |
| Total Land Area Disturbed | <u>9.4</u>  |          |                                 |

## C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Signature [Signature]

## D. TECHNICAL SITE DATA

### DESCRIPTION OF WORK

Construct one story addition, Deck & ramp as per drawings. Alternate #1 and #2 in construction notes not to be done at this time. Framing checklist must be signed. Sheathing inspection Required.

### FEE (Office Use Only)

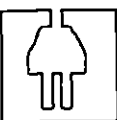
|                               |       |
|-------------------------------|-------|
| Administrative Surcharge \$   | _____ |
| Minimum Fee \$                | _____ |
| State Permit Surcharge Fee \$ | _____ |
| TOTAL FEE \$                  | _____ |



8-17-05



# ELECTRICAL SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 831 Lot 10 Qualification Code \_\_\_\_\_

Work Site Location 1657 WEST PRINCETON AVE

Owner In Fee MR. CATANEO ARSE

Address 1657 WEST PRINCETON AVE, BRICK NJ

Tel [REDACTED]

Contractor Eric G. Larson V. Elect Int Inc

Address 451 Northampton Blvd

Tel (734) 505-1036 FAX ( ) ( ) ( )

Contractor License No. 11350

Federal Emp. No. 22-3750084

## B. ELECTRICAL CHARACTERISTICS

Use Group Present \_\_\_\_\_ Proposed Cupdr 7 K. Kela

☐ Pole/Pad # \_\_\_\_\_ ☐ Temporary ☐ Other \_\_\_\_\_

Building Occupied as \_\_\_\_\_ Utility Co. \_\_\_\_\_

Est. Cost of Elec. Work \$ 1,500.00

## JOB SUMMARY (Office Use Only)

| PLAN REVIEW                                                         | Date | Initial | INSPECTIONS                         | Dates (Month/Day)                                 |
|---------------------------------------------------------------------|------|---------|-------------------------------------|---------------------------------------------------|
| <input checked="" type="checkbox"/> No Plans Required               |      |         | Type: _____                         | Failure _____ Approval _____ Initial _____        |
| Joint Plan Review Required:                                         |      |         | Rough _____                         | Barrier-Free _____                                |
| <input type="checkbox"/> Building <input type="checkbox"/> Plumbing |      |         | Trench _____                        | Temp. Serv. _____                                 |
| <input type="checkbox"/> Fire <input type="checkbox"/> Elevator     |      |         | Const. Serv. _____                  | TCO _____                                         |
| <input type="checkbox"/> Elec. Plans Approved                       |      |         | Other _____                         | Service _____                                     |
| Date: <u>8/16/06</u>                                                |      |         | Final _____                         | Barrier-Free _____                                |
| Approved by: <u>MR</u>                                              |      |         | Temp. Cut-In-Card Date Issued _____ | Final Cut-In-Card Date Issued _____               |
| SUBCODE APPROVAL                                                    |      |         | Annual Pool Inspection _____        | Date of Grounding and Bonding Certification _____ |
| <input type="checkbox"/> CO <input type="checkbox"/> CA             |      |         |                                     |                                                   |

## C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature \_\_\_\_\_

Licensed Elec. Contractor ☐ Certified Landscape Irrigation Contr ☐ Exempt Applicant

## D. TECHNICAL SITE DATA

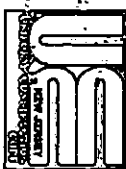
| QTY. | SIZE | ITEMS                      |
|------|------|----------------------------|
| 20   |      | Lighting Fixtures          |
| 15   |      | Receptacles                |
| 10   |      | Switches                   |
|      |      | Detectors                  |
|      |      | Light Poles                |
|      |      | Motors—Fract. HP (Gashaw)  |
|      |      | Emergency & Exit Lights    |
|      |      | Communications Points      |
|      |      | Alarm Devices/F.A.C. Panel |

## TOTAL NUMBERS

|                                |  |
|--------------------------------|--|
| Pool Permit/with UW Lights     |  |
| Storable Pool/Spa/Hot Tub      |  |
| KW Elec. Range/Receptacle      |  |
| KW Oven/Surface Unit           |  |
| KW Elec. Water Heater          |  |
| KW Elec. Dryer/Receptacle      |  |
| KW Dishwasher                  |  |
| HP Garbage Disposal            |  |
| KW Central A/C Unit            |  |
| HP/KW Space Heater/Air Handler |  |
| KW Baseboard Heat              |  |
| HP Motors 1/4 HP               |  |
| KW Transformer/Generator       |  |
| AMP Service                    |  |
| AMP Subpanels *                |  |
| AMP Motor Control Center       |  |
| KW Elec. Sign/Outline Light    |  |

FEE (Office Use Only)

|                               |  |
|-------------------------------|--|
| Administrative Surcharge \$   |  |
| Minimum Fee \$                |  |
| State Permit Surcharge Fee \$ |  |
| TOTAL FEE \$                  |  |



# ELECTRICAL SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 18 831 Lot 10/11/12 Qualification Code 08924

Work Site Location 1657 West Riverdale Ave Riverdale, IL 60641

Owner In Fee Wesley's Creation ABLE  
Address Same

Tel [REDACTED]

Contractor Eric G. Larson T. Elect Cont Inc.

Address 451 Northampton Blvd N.J. 08757

Tel (732) 535-1636 FAX ( ) ( )

Contractor License No. 113510

Federal Emp. No. 23-37906 PC

## B. ELECTRICAL CHARACTERISTICS

Use Group Present Proposed (Addition)

☐ Pole/Pad #   ☐ Temporary ☐ Other

Building Occupied as   Utility Co.

Est. Cost of Elec. Work \$ 3,000.00

## JOB SUMMARY (Office Use Only)

| PLAN REVIEW                                                         | Date | Initial | INSPECTIONS                                 | Dates (Month/Day)               |
|---------------------------------------------------------------------|------|---------|---------------------------------------------|---------------------------------|
| <input type="checkbox"/> No Plans Required                          |      |         | Type: Rough                                 | Failure                         |
| Joint Plan Review Required:                                         |      |         | Barrier-Free                                | Approval Initial <u>6/13/06</u> |
| <input type="checkbox"/> Building <input type="checkbox"/> Plumbing |      |         | Trench                                      |                                 |
| <input type="checkbox"/> Fire <input type="checkbox"/> Elevator     |      |         | Temp. Serv.                                 |                                 |
| <input checked="" type="checkbox"/> Elec. Plans Approved            |      |         | Constr. Serv.                               |                                 |
| Date: <u>3/5/06</u>                                                 |      |         | TCO                                         |                                 |
| Approved by: <u>MM</u>                                              |      |         | Other                                       |                                 |
|                                                                     |      |         | Service Final                               | <u>8/8/06</u>                   |
|                                                                     |      |         | Barrier-Free                                | <u>6/29/07</u>                  |
| SUBCODE APPROVAL                                                    |      |         | Temp. Cut-in-Card Date Issued               |                                 |
| <input type="checkbox"/> CO <input type="checkbox"/> CCO            |      |         | Final Cut-in-Card Date Issued               |                                 |
| Date: <u>6/20/07</u>                                                |      |         | Annual Pool Inspection                      |                                 |
| Approved by: <u>MM</u>                                              |      |         | Date of Grounding and Bonding Certification |                                 |

## C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on the application.

Date Received 3-17-06  
Control # 66-07627  
Date Issued    
Permit #

Applicant's Signature/Contractor's Seal and Signature

☒ Licensed Elec. Contractor ☐ Certified Landscape Irrigation Contr ☐ Exempt Applicant

## D. TECHNICAL SITE DATA

| QTY | SIZE | ITEMS                          | FEE (Office Use Only) |
|-----|------|--------------------------------|-----------------------|
| 30  |      | Lighting Fixtures              |                       |
| 30  |      | Receptacles                    |                       |
| 13  |      | Switches                       |                       |
| 9   |      | Detectors                      |                       |
| 2   |      | Light Poles                    |                       |
|     |      | Motors—Fract. HP               |                       |
|     |      | Emergency & Exit Lights        |                       |
|     |      | Communications Points          |                       |
|     |      | Alarm Devices/F.A.C. Panel     |                       |
|     |      | TOTAL NUMBERS                  | \$ <u> </u>           |
|     |      | Pool Permit/with UW Lights     |                       |
|     |      | Storable Pool/Spa/Hot Tub      |                       |
|     |      | KW Elec. Range/Receptacle      |                       |
|     |      | KW Oven/Surface Unit           |                       |
|     |      | KW Elec. Water Heater          |                       |
|     |      | KW Elec. Dryer/Receptacle      |                       |
|     |      | KW Dishwasher                  |                       |
|     |      | HP Garbage Disposal            |                       |
|     |      | KW Central A/C Unit            |                       |
|     |      | HP/KW Space Heater/Air Handler |                       |
|     |      | KW Baseboard Heat              |                       |
|     |      | HP Motors 1/4 HP               |                       |
|     |      | KW Transformer/Generator       |                       |
|     |      | AMP Service                    |                       |
|     |      | AMP Subpanels                  |                       |
|     |      | AMP Motor Control Center       |                       |
|     |      | KW Elec. Sign/Outline Light    |                       |



# ELECTRICAL SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 15831 Lot 10/1/12 Qualification Code \_\_\_\_\_  
Work Site Location 1657 West Henderson Ave River AT 08724

Owner In Fee Witzkes General Ache  
Address same

Tel [redacted]  
Contractor Eric G. Lammers Jr Elect Cont Inc  
Address 4571 Northampton Blvd

Tel (732) 565-1636 FAX ( ) ( ) (SMC)  
Contractor License No. 11310  
Federal Emp. No. 22-3790646

B. ELECTRICAL CHARACTERISTICS  
Use Group Present \_\_\_\_\_ Proposed (Addition)

☐ Pole/Pad # \_\_\_\_\_ ☐ Temporary ☐ Other \_\_\_\_\_  
Building Occupied as \_\_\_\_\_ Utility Co. \_\_\_\_\_  
Est. Cost of Elec. Work \$ 3,000.00

| JOB SUMMARY (Office Use Only)                                                        |                                     |
|--------------------------------------------------------------------------------------|-------------------------------------|
| PLAN REVIEW                                                                          | INSPECTIONS                         |
| Date                                                                                 | Initial                             |
| <input type="checkbox"/> No Plans Required                                           | Type: _____                         |
| Joint Plan Review Required:                                                          | Rough _____                         |
| <input type="checkbox"/> Building <input type="checkbox"/> Plumbing                  | Barrier-Free _____                  |
| <input type="checkbox"/> Fire <input type="checkbox"/> Elevator                      | Trench _____                        |
| <input checked="" type="checkbox"/> Elec. Plans Approved                             | Temp. Serv. _____                   |
| Date: <u>3/5/00</u>                                                                  | Constr. Serv. _____                 |
| Approved by: <u>Witz</u>                                                             | TCO _____                           |
|                                                                                      | Other _____                         |
|                                                                                      | Service _____                       |
|                                                                                      | Final _____                         |
|                                                                                      | Barrier-Free _____                  |
| SUBCODE APPROVAL                                                                     | Temp. Cut-in-Card Date Issued _____ |
| <input type="checkbox"/> CO <input type="checkbox"/> CCO <input type="checkbox"/> CA | Final Cut-in-Card Date Issued _____ |
| Date: _____                                                                          | Annual Pool Inspection _____        |
| Approved by: _____                                                                   | Date of Grounding and Bonding _____ |
|                                                                                      | Certification _____                 |

C. CERTIFICATION IN FIELD OF DATH  
I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature

☒ Licensed Elec. Contractor ☐ Certified Landscape Irrigation Contr ☐ Exempt Applicant

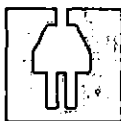
## D. TECHNICAL SITE DATA

| QTY           | SIZE | ITEMS                          |
|---------------|------|--------------------------------|
| 20            |      | Lighting Fixtures              |
| 20            |      | Receptacles                    |
| 13            |      | Switches                       |
| 9             |      | Detectors                      |
| 2             |      | Light Poles                    |
|               |      | Motors—Fract. HP               |
|               |      | Emergency & Exit Lights        |
|               |      | Communications Points          |
|               |      | Alarm Devices/F.A.C. Panel     |
| TOTAL NUMBERS |      |                                |
|               |      | Pool Permit/with UV Lights     |
|               |      | Storable Pool/Spa/Hot Tub      |
|               |      | KW Elec. Range/Receptacle      |
|               |      | KW Oven/Surface Unit           |
|               |      | KW Elec. Water Heater          |
|               |      | KW Elec. Dryer/Receptacle      |
|               |      | KW Dishwasher                  |
|               |      | HP Garbage Disposal            |
|               |      | KW Central A/C Unit            |
|               |      | HP/KW Space Heater/Air Handler |
|               |      | KW Baseboard Heat              |
|               |      | HP-Motors 1/4 HP               |
|               |      | KW Transformer/Generator       |
|               |      | AMP Service                    |
|               |      | AMP Subpanels                  |
|               |      | AMP Motor Control Center       |
|               |      | KW Elec. Sign/Outline Light    |

|                               |       |
|-------------------------------|-------|
| Administrative Surcharge \$   | _____ |
| Minimum Fee \$                | _____ |
| State Permit Surcharge Fee \$ | _____ |
| TOTAL FEE \$                  | _____ |



# ELECTRICAL SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 831 Lot 1D Qualification Code \_\_\_\_\_  
Work Site Location 11057 WEST PRINCESTON AVE

Owner in Fee MR. CATANAM ARLE  
Address 11057 WEST PRINCESTON AVE, BRUCE A.T.

Tel ( ) \_\_\_\_\_  
Contractor Eric G. Larson T-Elect (Int Inc  
Address 451 Northampton Blvd  
T-12 N. 107 08757

Tel (734) 505-1036 FAX ( ) (SAME)  
Contractor License No. 11350  
Federal Emp. No. 22-3750084

B. ELECTRICAL CHARACTERISTICS  
Use Group Present \_\_\_\_\_ Proposed Cupola 7 Kibla  
11350 11350 11350  
11350 11350 11350

☐ Pole/Pad # \_\_\_\_\_ ☐ Temporary ☐ Other \_\_\_\_\_  
Building Occupied as \_\_\_\_\_ Utility Co. \_\_\_\_\_  
Est. Cost of Elec. Work \$ 1,500.00

| JOB SUMMARY (Office Use Only)                                                        |                                                   |
|--------------------------------------------------------------------------------------|---------------------------------------------------|
| PLAN REVIEW                                                                          | INSPECTIONS                                       |
| Date                                                                                 | Initial                                           |
| <input checked="" type="checkbox"/> No Plans Required                                | Type: _____                                       |
| Joint Plan Review Required:                                                          | Rough _____                                       |
| <input type="checkbox"/> Building <input type="checkbox"/> Plumbing                  | Barrier-Free _____                                |
| <input type="checkbox"/> Fire <input type="checkbox"/> Elevator                      | Trench _____                                      |
| <input type="checkbox"/> Elec. Plans Approved                                        | Temp. Serv. _____                                 |
| Date: <u>2/16/06</u>                                                                 | Constr. Serv. _____                               |
| Approved by: <u>MM</u>                                                               | TCO _____                                         |
|                                                                                      | Other _____                                       |
|                                                                                      | Service _____                                     |
|                                                                                      | Final _____                                       |
|                                                                                      | Barrier-Free _____                                |
| SUBCODE APPROVAL                                                                     | Temp. Cut-in-Card Date Issued _____               |
| <input type="checkbox"/> CO <input type="checkbox"/> CCO <input type="checkbox"/> CA | Final Cut-in-Card Date Issued _____               |
| Date: _____                                                                          | Annual Pool Inspection _____                      |
| Approved by: _____                                                                   | Date of Grounding and Bonding Certification _____ |

C. CERTIFICATION IN LIEU OF OATH  
I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature  
Eric G. Larson

D. TECHNICAL SITE DATA  
QTY. SIZE ITEMS  
15 15 15  
10 10 10

- Lighting Fixtures
- Receptacles
- Switches
- Detectors
- Light Poles
- Motors—Fract. HP (19-4500)
- Emergency & Exit Lights
- Communications Points
- Alarm Devices/F.A.C. Panel

- TOTAL NUMBERS,
- Pool Permit with UW Lights
- Storable Pool/Spa/Hot Tub
- KW Elec. Range/Receptacle
- KW Oven/Surface Unit
- KW Elec. Water Heater
- KW Elec. Dryer/Receptacle
- KW Dishwasher
- HP Garbage Disposal
- KW Central A/C Unit
- HP/KW Space Heater/Air Handler
- KW Baseboard Heat
- HP Motors 1/2 HP
- KW Transformer/Generator
- AMP Service
- AMP Subpanels \*
- AMP Motor Control Center
- KW Elec. Sign/Outline Light

|                               |  |
|-------------------------------|--|
| Administrative Surcharge \$   |  |
| Minimum Fee \$                |  |
| State Permit Surcharge Fee \$ |  |
| TOTAL FEE \$                  |  |



# FIRE PROTECTION SUBCODE TECHNICAL SECTION

3-17-06

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING:

CONTRACTOR'S NAME: NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block: 15 831 Lot: 10, #12 Qualification Code: 05724

Work Site Location: 1657 WEST BRIDGETON AVE BRICK N.J. 08724

Owner in Fee: Westcoast Gasworks ABLE

Address: Same

Tel: [REDACTED]

Contractor: C.N. HANDE IMPROVEMENTS

Address: 1679 WEST BRIDGETON AVE BRICK N.J. 08724

Tel: (732) 840-4994 FAX: ( )

Fire Protection Equipment, NJ Div of Fire Safety Permit No.

Fire Protection Equipment, NJ Div of Fire Safety Installer No.

Fire Alarm Contractor No. 137-74-9020

Federal Emp. No.

## B. FIRE PROTECTION CHARACTERISTICS

Use Group: Present   Proposed   Fire Alarm System:   New or   Existing

Constr. Class: Present   Proposed   Location of Panel:

Heating System:   New or   Existing   HVAC Fire Suppression/Standpipe System:

Type:   Gas   Oil   Electric   Solar   New or   Existing

Location:   Other   Location of Main Control Valve:

Location: Basement

Fuel Storage Tank:

Fuel Type:   Flammable or   Combustible Capacity

Total Cost of Fire Protection Work \$

## JOB SUMMARY (Office Use Only)

### PLAN REVIEW

☐ No Plans Required   Type:   Alarm System   Failure   Failure   Approval   Initial

Joint Plan Review Required:   Suppression Sys.   Standpipe   Fire Pump

☐ Building   Plumbing   Elevator   Pre-Eng. System

☐ Electric   Elevator   Mechanical

☒ Fire Plans Approved   Date: 3-17-06

Approved by:   TCO   Smoke Control

SUBCODE APPROVAL   Date: 6-13-09 ICA

☐ CO   Fire Alarm Tanks   Final

☐ Fire Alarm Venting   Other

Approved by:



C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner, and am authorized to make this application.

Applicant's Signature/Contractor's Signature

☐ Certified Contractor ☐ Exempt Applicant

## D. TECHNICAL SITE DATA

DESCRIPTION OF WORK:

Water Supply Source

Method of Alarm/Suppression System Supervision

Flammable/Combustible Tanks

Alarm Systems

☐ System ☐ 110v interconnected ☐ CO Detectors/110v

Alarm Devices (i.e., smoke, heat, pulls, water/flow)

Supervisory Devices (i.e., tamper, low/high air)

Signaling Devices (i.e., horns/strobes, bells)

Other Devices

TOTAL

Suppression Systems

Fire Pump   GPM Type

Dry Pipe/Alarm Valves

Pre-action Valves

Sprinkler Heads (Dry and Wet)

Standpipes

Pre-engineered Systems

Wet Chemical

Dry Chemical

CO<sub>2</sub> Suppression

Foam Suppression

FM200 Suppression

Other

Other Systems

Kitchen Hood Exhaust System

Smoke Control System

Fired Appliances ☐ Gas or ☐ Oil

Fireplace Venting/Metal Chimney

Other

Administrative Surcharge \$

Minimum Fee \$

State Permit Surcharge Fee \$

TOTAL FEE \$

U.C.C. #140 (Rev. 1/04) 1 White = Inspector Copy 3 Pink = Office Copy

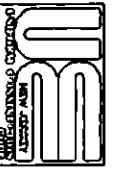
2 Canary = Office Copy 4 Gold = Applicant Copy

3-17-06 10:25 AM

Q17 Intersection not working properly.

OK

20  
11  
11  
11



# FIRE PROTECTION SUBCODE TECHNICAL SECTION

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 15831 Lot 10/11/12 Qualification Code 05724  
Work Site Location 1657 WEST PRINCETON AVE BRICK N.J. 08724

Owner in Fee YF + HES GRHAM ABLE  
Address same

Tel [REDACTED]

Contractor E.S. HANE TAPRAMENTS  
Address 1679 WEST PRINCETON AVE BRICK N.J. 08724

Tel (732) 840-4944 FAX ( )

Fire Protection Equipment, NJ Div of Fire Safety Permit No. \_\_\_\_\_

Fire Protection Equipment, NJ Div of Fire Safety Installer No. \_\_\_\_\_

Fire Alarm Contractor No. \_\_\_\_\_

Federal Emp. No. 137-74-4030

## B. FIRE PROTECTION CHARACTERISTICS

Use Group: Present \_\_\_\_\_ Proposed \_\_\_\_\_ Fire Alarm System: [ ] New or [ ] Existing

Constr. Class: Present \_\_\_\_\_ Proposed \_\_\_\_\_ Location of Panel: \_\_\_\_\_

Heating System: [ ] New or [X] Existing [ ] HVAC Fire Suppression/Standpipe System: \_\_\_\_\_

Type: [X] Gas [ ] Oil [ ] Electric [ ] Solar [ ] New or [ ] Existing

[ ] Other \_\_\_\_\_ Location of Main Control Valve: \_\_\_\_\_

Location: PRINCETON

Fuel Storage Tank: \_\_\_\_\_

Fuel Type: [ ] Flammable or [ ] Combustible Capacity \_\_\_\_\_

Total Cost of Fire Protection Work \$ \_\_\_\_\_

## JOB SUMMARY (Office Use Only)

| PLAN REVIEW                     | INSPECTIONS        | Dates (Month/Day)        |
|---------------------------------|--------------------|--------------------------|
| [ ] No Plans Required           | Alarm System       | Failure Approval Initial |
| Joint Plan Review Required:     | Suppression Sys.   |                          |
| [ ] Building [ ] Plumbing       | Standpipe          |                          |
| [ ] Electric [ ] Elevator       | Fire Pump          |                          |
| Fire Plans Approved             | Pre-Eng. System    |                          |
| Date: <u>3-17-06</u>            | Mechanical         |                          |
| Approved by: <u>[Signature]</u> | Smoke Control      |                          |
| SUBCODE APPROVAL                | TCO                |                          |
| [ ] CO [ ] CCO [ ] CA           | Flam/Combust Tanks |                          |
| Date: _____                     | Fireplace Venting  |                          |
| Approved by: _____              | Final              |                          |
|                                 | Other              |                          |



## C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application. [Signature]  
Applicant's Signature/Contractor's Signature

[ ] Certified Contractor [ ] Exempt Applicant

## D. TECHNICAL SITE DATA

Water Supply Source \_\_\_\_\_

Method of Alarm/Suppression System Supervision \_\_\_\_\_

Flammable/Combustible Tanks

Alarm Systems

[ ] System

[ ] 110v Interconnected

[ ] CO Detectors/110v

Alarm Devices (i.e., smoke, heat, pull, water/flow)

Supervisory Devices (i.e., tamper, low/high air)

Signaling Devices (i.e., horn/strobes, bells)

Other Devices \_\_\_\_\_

TOTAL \_\_\_\_\_

Suppression Systems

Fire Pump \_\_\_\_\_ GPM Type \_\_\_\_\_

Dry Pipe/Alarm Valves

Pre-action Valves

Sprinkler Heads (Dry and Wet)

Standpipes

Pre-engineered Systems

Wet Chemical

Dry Chemical

CO<sub>2</sub> Suppression

Foam Suppression

FM200 Suppression

Other \_\_\_\_\_

Other Systems

Kitchen Hood Exhaust System

Smoke Control System

Fired Appliances [ ] Gas or [ ] Oil

Fireplace Venting/Metal Chimney

Other [Signature]

1 White = Inspector Copy  
3 Pink = Office Copy

2 Canary = Office Copy  
4 Gold = Applicant Copy

Administrative Surcharge \$

Minimum Fee \$

State Permit Surcharge Fee \$

TOTAL FEE \$

Date Received 3-17-06  
Control # 06 0737

**4 Gold = Applicant Copy**



# PLUMBING SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO. 1-800-272-1000.

Block 831 Lot 15 Qualification Code \_\_\_\_\_  
Work Site Location 1457 WEST PIONEER AVE

Owner in Fee CRISTIAN ABUEL  
Address 1457 WEST PIONEER AVE

Tel [Redacted] (Call when ready)

Contractor PAUL MORRIS

Address 1011 BALSAM DR

Tel (801) 709 8944 FAX ( )

Contractor License No. 10637

Federal Emp. No. \_\_\_\_\_

B. PLUMBING CHARACTERISTICS

Use Group Present 4" X Proposed \_\_\_\_\_

Building Sewer Size 4" Public Sewer \_\_\_\_\_ Private Septic \_\_\_\_\_

Water Service Size 1" Public Water \_\_\_\_\_ Private Well \_\_\_\_\_

Est. Cost of Plumbing Work \$ 600.00

JOB SUMMARY (Office Use Only)

PLAN REVIEW

☒ No Plans Required

Joint Plan Review Required:

☐ Building ☐ Electric

☐ Fire ☐ Elevator

☐ Plumbing Plans Approved

Date: 10/16/07

Approved by: [Signature]

SUBCODE APPROVAL

☐ CO ☐ CCO ☒ CA

Date: 6/15/07

Approved by: [Signature]

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature

☒ Licensed Plumbing Contractor ☐ Exempt Applicant

D. TECHNICAL SITE DATA (List of all fixtures.)

NO. \_\_\_\_\_

FIXTURE/EQUIPMENT.

Water Closet \_\_\_\_\_

Urinal/Bidet \_\_\_\_\_

Bath Tub \_\_\_\_\_

Lavatory \_\_\_\_\_

Shower \_\_\_\_\_

Floor Drain \_\_\_\_\_

Sink \_\_\_\_\_

Dishwasher \_\_\_\_\_

Drinking Fountain \_\_\_\_\_

Washing Machine \_\_\_\_\_

Hose Bibb \_\_\_\_\_

Water Heater \_\_\_\_\_

Fuel Oil Piping \_\_\_\_\_

Gas Piping \_\_\_\_\_

LP Gas Tank \_\_\_\_\_

Steam Boiler \_\_\_\_\_

Hot Water Boiler \_\_\_\_\_

Sewer Pump \_\_\_\_\_

Interceptor/Separator \_\_\_\_\_

Backflow Preventer \_\_\_\_\_

Graesetrap \_\_\_\_\_

Sewer Connection \_\_\_\_\_

Water Service Connection \_\_\_\_\_

Stacks \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Date Received 7/21/06  
Control # 712806  
Date Issued 06-07-27-1A  
Permit # 06-07-27-1A

FEE (Office Use Only)

\$ \_\_\_\_\_

Administrative Surcharge \$ \_\_\_\_\_

Minimum Fee \$ \_\_\_\_\_

State Permit Surcharge Fee \$ \_\_\_\_\_

TOTAL FEE \$ \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

U.C.C. F.130  
(rev. 01/04)

1 White = Inspector Copy  
3 Pink = Office Copy

2 Canary = Office Copy  
4 Gold = Applicant Copy



# PLUMBING SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING  
CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.  
Block 13 83 Lot 1011/12 Qualification Code 1657  
Work Site Location 1657 WEST FARMER AVE. EXC-DT-08224

Owner in Fee WATER RES. CORP. ABLE  
Address SAVE

Tel [REDACTED]  
Contractor PHILIP A. ADORRA II  
Address 107 CACTUS DR  
LAUREL HILLS, CA 92033  
Tel (609) 769 6994 FAX ( )  
Contractor License No. 10637  
Federal Emp. No.

## B. PLUMBING CHARACTERISTICS

Use Group Present X Proposed   
Building Sewer Size 4" Public Sewer X Private Septic   
Water Service Size 1" Public Water X Private Well   
Est. Cost of Plumbing Work \$ 4000.00

## JOB SUMMARY (Office Use Only)

PLAN REVIEW  
☐ No Plans Required  
Joint Plan Review Required:  
☐ Building ☐ Electric  
☐ Fire ☐ Elevator  
☒ Plumbing Plans Approved  
Date: 8/1/06  
Approved by: [Signature]  
SUBCODE APPROVAL  
☐ CO ☐ CCO 1 per  
Date: 6/18/07  
Approved by: [Signature]

## C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature  
[Signature]  
☒ Licensed Plumbing Contractor ☐ Exempt Applicant

## D. TECHNICAL SITE DATA (List of all fixtures.)

| NO.      | FIXTURE/EQUIPMENT        | FEE (Office Use Only) |
|----------|--------------------------|-----------------------|
| <u>1</u> | Water Closet             | \$                    |
| <u>1</u> | Urinal/Bidet             |                       |
| <u>1</u> | Bath Tub                 |                       |
| <u>1</u> | Lavatory                 |                       |
| <u>1</u> | Shower                   |                       |
| <u>1</u> | Floor Drain              |                       |
| <u>1</u> | Sink                     |                       |
| <u>1</u> | Dishwasher               |                       |
| <u>1</u> | Drinking Fountain        |                       |
| <u>1</u> | Washing Machine          |                       |
| <u>1</u> | Hose Bibb                |                       |
| <u>1</u> | Water Heater             |                       |
| <u>1</u> | Fuel Oil Piping          |                       |
| <u>1</u> | Gas Piping               |                       |
| <u>1</u> | LPGas Tank               |                       |
| <u>1</u> | Steam Boiler             |                       |
| <u>1</u> | Hot Water Boiler         |                       |
| <u>1</u> | Sewer Pump               |                       |
| <u>1</u> | Interceptor/Separator    |                       |
| <u>1</u> | Backflow Preventer       |                       |
| <u>1</u> | Greasetrap               |                       |
| <u>1</u> | Sewer Connection         |                       |
| <u>1</u> | Water Service Connection |                       |
| <u>1</u> | Seals                    |                       |
| <u>1</u> | Other                    |                       |
| <u>1</u> | Other                    |                       |

Administrative Surcharge \$  
Minimum Fee \$  
State Permit Surcharge Fee \$  
TOTAL FEE \$

Date Received 5/17/06  
Control # 06-0727  
Date Issued  
Permit #

20/11/06

8/4/06

① - NINE 8" FROM WATER TO SURF SPOT

(1" UP GOOD)

(HARD)

7

30



# PLUMBING SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 15831 Lot 101112 Qualification Code 1  
Work Site Location 1657 WEST PRINCETON AVE ROCKY HILL CT 08724

Owner in Fee MR & MRS CAROL ANN ALME  
Address 1657 WEST PRINCETON AVE

Tel [REDACTED]  
Contractor PATRICK A. MORRIS II

Address 107 CACTUS DR  
LAUREN KALISCH NJ 08735

Tel (800) 709 6994 FAX ( )  
Contractor License No. 106337

Federal Emp. No.    
B. PLUMBING CHARACTERISTICS

Use Group Present X Proposed    
Building Sewer Size 4" Public Sewer X Private Septic    
Water Service Size 1" Public Water X Private Well    
Est. Cost of Plumbing Work \$ 4000.00

JOB SUMMARY (Office Use Only)  
PLAN REVIEW  
☐ No Plans Required  
Joint Plan Review Required:

☐ Building ☐ Electric  
☐ Fire ☐ Elevator  
☒ Plumbing Plans Approved  
Date 3/1/16

Approved by: [Signature]  
SUBCODE APPROVAL  
☐ CO ☐ CCO ☐ CA

Date:    
Approved by:

C. CERTIFICATION IN LIEU OF OATH  
I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature  
[Signature]

☒ Licensed Plumbing Contractor ☐ Exempt Applicant

D. TECHNICAL SITE DATA (List of all fixtures.)

NO. 1

FIXTURE/EQUIPMENT

Water Closet

Urinal/Bidet

Bath Tub

Lavatory

Shower

Floor Drain

Sink

Dishwasher

Drinking Fountain

Washing Machine

Hose Bibb

Water Heater

Fuel Oil Piping

Gas Piping

LP Gas Tank

Steam Boiler

Hot Water Boiler

Sewer Pump

Interceptor/Separator

Backflow Preventer

Greasetrap

Sewer Connection

Water Service Connection

Stacks 4"

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

FEE (Office Use Only)  
\$

U.C.C. F130

(Rev. 01/04)

1 White = Inspector Copy

3 Pink = Office Copy

2 Canary = Office Copy

4 Gold = Applicant Copy

Date Received

Control #

Date Issued

Permit #

15/17/16

010-0007



# PLUMBING SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 831 Lot 10 Qualification Code \_\_\_\_\_  
Work Site Location 1657 WEST PRINCESS AVE

Owner in Fee GEORGE A. ABEL  
Address 1657 WEST PRINCESS AVE

Tel (call when ready)

Contractor FFH Plumbing, Inc.  
Address 1011 BALSAM DR

Tel (894) 709 8941 FAX ( )

Contractor License No. 10637

Federal Emp. No. \_\_\_\_\_

## B. PLUMBING CHARACTERISTICS

Use Group Present Proposed \_\_\_\_\_

Building Sewer Size 4" Public Sewer \_\_\_\_\_ Private Septic \_\_\_\_\_

Water Service Size 1" Public Water \_\_\_\_\_ Private Well \_\_\_\_\_

Est. Cost of Plumbing Work \$ 600.00

## JOB SUMMARY (Office Use Only)

PLAN REVIEW \_\_\_\_\_

Joint Plan Review Required: ☒ No Plans Required

INSPECTIONS

Type: \_\_\_\_\_ Failure \_\_\_\_\_ Dates (Month/Day) \_\_\_\_\_ Initial \_\_\_\_\_

Slab \_\_\_\_\_

Rough \_\_\_\_\_

Water \_\_\_\_\_

Sewer \_\_\_\_\_

Fixtures \_\_\_\_\_

Gas Equipment \_\_\_\_\_

Gas Piping \_\_\_\_\_

LP Gas Tank \_\_\_\_\_

Fuel Oil Piping \_\_\_\_\_

Solar \_\_\_\_\_

TCO \_\_\_\_\_

Approved by: \_\_\_\_\_

Subcode Approval \_\_\_\_\_

☐ CO ☐ CCO ☐ CA

Date: 1/25/10

Approved by: [Signature]

Approved by: \_\_\_\_\_

D. TECHNICAL SITE DATA (List of all fixtures.)

NO. \_\_\_\_\_

Water Closet \_\_\_\_\_

Urinal/Bidet \_\_\_\_\_

Bath Tub \_\_\_\_\_

Lavatory \_\_\_\_\_

Shower \_\_\_\_\_

Floor Drain \_\_\_\_\_

Sink \_\_\_\_\_

Dishwasher \_\_\_\_\_

Drinking Fountain \_\_\_\_\_

Washing Machine \_\_\_\_\_

Hose Bibb \_\_\_\_\_

Water Heater \_\_\_\_\_

Fuel Oil Piping \_\_\_\_\_

Gas Piping \_\_\_\_\_

LP Gas Tank \_\_\_\_\_

Steam Boiler \_\_\_\_\_

Hot Water Boiler \_\_\_\_\_

Sewer Pump \_\_\_\_\_

Interceptor/Separator \_\_\_\_\_

Backflow Preventer \_\_\_\_\_

Greasetrap \_\_\_\_\_

Sewer Connection \_\_\_\_\_

Water Service Connection \_\_\_\_\_

Stacks \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Date Received 7/21/10  
Control # 712816  
Date Issued 7/28/10  
Permit # 66-6727-1A

FEE (Office Use Only)  
\$ \_\_\_\_\_

Administrative Surcharge \$ \_\_\_\_\_

Minimum Fee \$ \_\_\_\_\_

State Permit Surcharge Fee \$ \_\_\_\_\_

TOTAL FEE \$ \_\_\_\_\_

## C. CERTIFICATION (IN LIEU OF OATH)

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature

☒ Licensed Plumbing Contractor ☐ Exempt Applicant

10637

U.C.C. F.130  
(rev. 01/04)

1 White = Inspector Copy  
3 Pink = Office Copy

2 Canary = Office Copy  
4 Gold = Applicant Copy



# PLUMBING SUBCODE TECHNICAL SECTION



Date Received  
Control #  
Date Issued  
Permit #

06-0727HB  
8-17-06

## A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 831 Lot 10 Qualification Code \_\_\_\_\_  
Work Site Location 1657 West River Avenue

Owner in Fee HE. GEORGE AHE  
Address 1657 West River Avenue

Tel ( ) \_\_\_\_\_  
Contractor PHI 2201 (111)

Address 1011 BAYVIEW DR  
844-1111 08721

Tel ( ) 804 709 6990 FAX ( ) \_\_\_\_\_  
Contractor License No. 10837

Federal Emp. No. \_\_\_\_\_  
Use Group Present 4 Proposed \_\_\_\_\_

Building Sewer Size 4" Public Sewer \_\_\_\_\_  
Water Service Size 1/2" Public Water \_\_\_\_\_  
Est. Cost of Plumbing Work \$ 4000 Private Well \_\_\_\_\_

## B. PLUMBING CHARACTERISTICS

PLAN REVIEW  
☐ No Plans Required  
Joint Plan Review Required:

☒ Building ☐ Electric  
☒ Fire ☐ Elevator  
Date: 8/16/06 Plumbing Plans Approved

Approved by: [Signature]  
SUBCODE APPROVAL  
☐ CO ☐ CCO ☐ CA

Date: \_\_\_\_\_  
Approved by: \_\_\_\_\_  
TCO \_\_\_\_\_

INSPECTIONS  
Type: \_\_\_\_\_ Failure \_\_\_\_\_  
Slab \_\_\_\_\_  
Rough \_\_\_\_\_  
Water \_\_\_\_\_  
Sewer \_\_\_\_\_  
Fixtures \_\_\_\_\_  
Gas Equipment \_\_\_\_\_  
Gas Piping \_\_\_\_\_  
LP Gas Tank \_\_\_\_\_  
Fuel Oil Piping \_\_\_\_\_  
Solar \_\_\_\_\_  
TCO \_\_\_\_\_

## C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature  
[Signature]  
[Signature]  
[ ] Licensed Plumbing Contractor [ ] Exempt Applicant

## D. TECHNICAL SITE DATA (List of all fixtures.)

NO. \_\_\_\_\_  
FEE (Office Use Only) \$ \_\_\_\_\_

FIXTURE/EQUIPMENT  
Water Closet \_\_\_\_\_  
Urinal/Bidet \_\_\_\_\_  
Bath Tub \_\_\_\_\_  
Lavatory \_\_\_\_\_  
Shower \_\_\_\_\_  
Floor Drain \_\_\_\_\_  
Sink \_\_\_\_\_  
Dishwasher \_\_\_\_\_  
Drinking Fountain \_\_\_\_\_  
Washing Machine \_\_\_\_\_  
Hose Bibb \_\_\_\_\_  
Water Heater \_\_\_\_\_  
Fuel Oil Piping \_\_\_\_\_  
Gas Piping \_\_\_\_\_  
LP Gas Tank \_\_\_\_\_  
Steam Boiler \_\_\_\_\_  
Hot Water Boiler \_\_\_\_\_  
Sewer Pump \_\_\_\_\_  
Interceptor/Separator \_\_\_\_\_  
Backflow Preventer \_\_\_\_\_  
Grease trap \_\_\_\_\_  
Sewer Connection \_\_\_\_\_  
Water Service Connection \_\_\_\_\_  
Stacks \_\_\_\_\_  
Other \_\_\_\_\_  
Other \_\_\_\_\_

Administrative Surcharge \$ \_\_\_\_\_  
Minimum Fee \$ \_\_\_\_\_  
State Permit Surcharge Fee \$ \_\_\_\_\_  
TOTAL FEE \$ \_\_\_\_\_

**Township of Brick  
Zoning Permit**

**Approved:**

Thursday, February 16, 2006

**Number:**

138

**Block**

831

**Lot**

10-12

**Zone:**

R-7.5

**Property Address:**

1657 West Princeton Avenue

**Applicant:**

Edward J. Serafin, Jr., EJS Home Improvements

**Property Owner**

Graham Able

**Existing Use:**

Single Family Residential

**Proposed Use:**

Single Family Residential

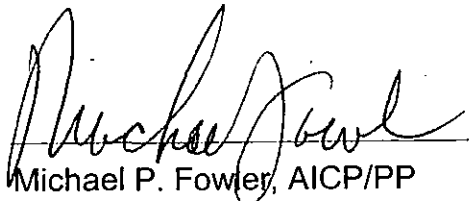
**Proposed Construction:**

One-story addition, 36' x 22', 14' high, with a rear deck, 26' x 12', 36" high.

**Conditions:**

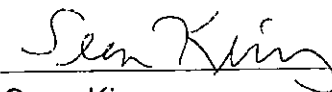
The addition and deck must be set back at least six (6) feet from the side property line and at least 15 feet from the rear property line.

**This permit shall be null, void and of no effect if any of the facts contained in the application upon the basis that this permit was granted are false or untrue in any material respect. This permit shall expire one (1) year after the date of issuance if the use or substantial construction has not been commenced.**



Michael P. Fowler, AICP/PP

Principal Planner



Sean Kinnevy

Zoning Officer

# TOWNSHIP OF BRICK ZONING PERMIT APPLICATION

(Please Type or Print Neatly in Ink, Not Pencil)

Applications missing any of the following information  
will delay processing and may be returned to you.

BLOCK 831 LOT 10, 11, 12 QUALIFIER \_\_\_\_\_  
PROPERTY ADDRESS 1657 WEST PRINCETON AVE  
PERSONAL NAME OF APPLICANT EDWARD J. SERAFIN JR  
BUSINESS NAME OF APPLICANT E.J.S. HOME IMPROVEMENTS  
MAILING ADDRESS OF APPLICANT 1679 WEST PRINCETON AVE, BRICK, N.J. 08724  
PROPERTY OWNER'S FULL NAME Mrs + Mrs GRHAM ABLE

## PRESENT USE OF PROPERTY (check all that apply)

- ☐ Vacant Lot ☒ Single-family dwelling ☐ Multi-family dwelling  
☐ Commercial (please describe) \_\_\_\_\_

## PROPOSED USE OF PROPERTY (check all that apply)

- ☐ Vacant Lot ☒ Single-family dwelling ☐ Multi-dwelling  
☐ Commercial (please describe) \_\_\_\_\_

## PROPOSED CONSTRUCTION (check all that apply)

- ☐ New Building (please describe) \_\_\_\_\_ Height \_\_\_\_\_  
☒ Addition - Height 14'  
☐ Alteration \_\_\_\_\_  
☒ Porch or deck - Height 36"  
☐ Shed - Height \_\_\_\_\_  
☐ Fence - Type \_\_\_\_\_ Height \_\_\_\_\_  
☐ Swimming Pool ☐ in-ground ☐ above-ground  
☐ Other (please describe) \_\_\_\_\_

## CHECKLIST

- ☐ All information completed above  
☐ Two (2) copies of a plot plan containing:  
☐ All existing and proposed structures  
☐ All dimensions of the lot and structures  
☐ All setbacks from the structures to the property lines  
☐ All adjacent streets and waterways  
☐ If applicable, include a copy of the Zoning Board of Adjustment Resolution, the date that the map was signed, and/or the date that the subdivision map was filed with the Ocean County Clerk, along with the file map and number.

Note: No partial, taped, faxed,  
reduced or enlarged copies  
can be accepted.

The applicant certifies that all statements and information made and provided as part of this application are true to the best of the applicant's knowledge, information and belief. The applicant further states that the applicant will comply with all other Municipal approvals and ordinances, and all County, State, and Federal Regulations.

SIGNATURE OF APPLICANT Edward J. Serafin Jr. Date 1-13-06

Reviewed by Zoning Office SK Date 2/16/06 ( ☒ Approved ) ( ) Denied

March 2003-----

SK  
2/14/06

# THE BRICK TOWNSHIP MUNICIPAL UTILITIES AUTHORITY

1551 HIGHWAY 88 WEST BRICK, NEW JERSEY 08724 458-7000

## WATER SERVICE PERMIT

Block: 831 Lot: 10  
1657 Princeton Ave W.

upgrade to 1" service

Anna Abel  
1657 W Princeton Ave  
Brick NJ 08724-2959

ACCOUNT # L320804 METER # \_\_\_\_\_ METER MFR. \_\_\_\_\_

SIZE OF SVC LINE 1" METER SIZE 1"

CONNECTION FEE \$ 714.04

INSPECTIONS  
15.00  
64.00  
79.00

A. Service Line

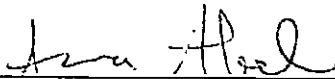
B. Curb Connection

C. House Conn & Mtr

D. Cross-Connection

| Date<br>1st | Insp.<br>2nd | Comment | Inspector |
|-------------|--------------|---------|-----------|
|             |              |         |           |
|             |              |         |           |
|             |              |         |           |
|             |              |         |           |

Inspector

  
Homeowner/Applicant

---

Permit Number

## REScheck Compliance Certificate 2000 IECC

---

Checked By/Date

REScheck Software Version 3.6 Release 2

Data filename: C:\DOCUME~1\Owner\MYDOCU~1\ARCHIT~1\ENERGY~1\Abel.rck

PROJECT TITLE: Abel Residence

CITY: Mantoloking

STATE: New Jersey

HDD: 5294

CONSTRUCTION TYPE: Single Family

WINDOW / WALL RATIO: 0.09

DATE: 01/18/06

DATE OF PLANS: 1/18/06

### PROJECT DESCRIPTION:

One story addition

1657 West Princeton Avenue

Brick, New Jersey

### DESIGNER/CONTRACTOR:

Daniel Fortunato, AIA

98 Fairfield Road

Princeton, New Jersey

08540

### PROJECT NOTES:

Please note that the ResCheck does not offer Brick as one the city options, so Mantoloking was selected as the next closest city offered.

### COMPLIANCE: Passes

Maximum UA = 142

Your Home UA = 137

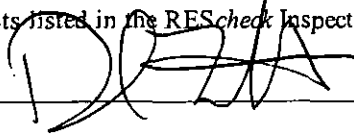
3.5% Better Than Code (UA)

|                                            | Gross<br>Area or<br>Perimeter | Cavity<br>R-Value | Cont.<br>R-Value | Glazing<br>or Door<br>U-Factor | UA |
|--------------------------------------------|-------------------------------|-------------------|------------------|--------------------------------|----|
| Ceiling 1: Cathedral Ceiling (no attic)    | 544                           | 19.0              | 0.0              |                                | 28 |
| Wall 1: Wood Frame, 16" o.c.               | 803                           | 13.0              | 0.0              |                                | 58 |
| WDH3046: Wood Frame:Double Pane with Low-E | 20                            |                   |                  | 0.330                          | 7  |
| CTN30: Wood Frame:Double Pane with Low-E   | 10                            |                   |                  | 0.300                          | 3  |
| WDH2046: Wood Frame:Double Pane with Low-E | 6                             |                   |                  | 0.330                          | 2  |

|                                                |     |      |       |    |
|------------------------------------------------|-----|------|-------|----|
| FWH6068SAL: Glass                              | 40  |      | 0.330 | 13 |
| Door 2: Solid                                  | 20  |      | 0.330 | 7  |
| Floor 1: All-Wood Joist/Truss:Over Outside Air | 572 | 30.0 | 0.0   | 19 |

COMPLIANCE STATEMENT: The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2000 IECC requirements in REScheck Version 3.6 Release 2 (formerly MECcheck) and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

Builder/Designer



Date 1-18-06

✓  
Applicable to Ordinance 720-92

This form must be handed in with permit application or a permit will not be issued

**TOWNSHIP OF BRICK**  
**Debris Form**

Work Site Address: 1657 WEST PRINCETON AVE

Block: 13 Lot: 10, 11, 12

Contractor: E.J.S. HOME IMPROVEMENTS

Contractor's Address: 1679 WEST PRINCETON AVE BRICK N.J. 08724

Type of Construction (minor, new home): ADDITION

Type of Debris (shingles, siding, wood, etc.): SHINGLES, SIDING, WOOD, DRYWALL, CONCRETE

Party responsible for removal: JACOBS DEMOLITION

Dumpster size: 2 40 yards

Destination of debris: Ocean County Landfill

Any recyclable material must be delivered to an approved recycling center and receipts provided to the Building Department along with tipping receipts for non-recyclable.

Generator's Certification: Under penalty of criminal and civil prosecution for the making or submission of false statements, representations or omissions, I declare, on behalf of the generator that the contents of this document are fully and accurately described above and have been disposed of in accordance with all applicable State and Federal laws and regulations, and that I have been authorized in writing, to make such declaration by the person in charge of the generator's operation.

Edward J. Serafin Jr.  
Signature

1-13-06  
Date

Edward J. Serafin Jr.  
Print Name

# **SPECIFICATIONS**

**for**

**PROPOSED ADDITION & ALTERATIONS to:**

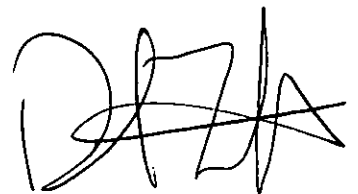
**ABEL RESIDENCE  
1657 West Princeton Avenue  
Brick, New Jersey**

**December 16, 2005**

**DANIEL FORTUNATO · ARCHITECT, P.A.**

---

98 FAIRFIELD ROAD, PRINCETON, NEW JERSEY 08540 · 609 - 683 - 0180 · FAX 609 - 683 - 0690

A handwritten signature in black ink, appearing to be 'D.F.', located in the bottom right corner of the page.

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

**DIVISION 1 - GENERAL REQUIREMENTS**

2000 International Residential Code (IRC)

Use Group: R-5; Construction Type: 5B

|               |                |             |        |
|---------------|----------------|-------------|--------|
| Design Loads: | Living Areas   | (live load) | 40# sf |
|               | Sleeping Areas | (live load) | 30# sf |
|               | Roof           | (live load) | 30# sf |
|               | Roof           | (dead load) | 15# sf |
|               | Exterior Decks | (live load) | 40# sf |

1. Definitions:
  - A. Contractor – General Contractor, Subcontractors or their agents or employees, and/or any person performing portions of the Work.
  - B. Owner – person(s) who own the property and/or paying for services for proposed project.
  - C. Work – All information documented on drawings and specifications.
2. All codes having jurisdiction shall be observed strictly in the construction of the project, including all applicable state and national building, electrical, mechanical, plumbing, energy and fire codes. Contractor shall coordinate, and verify if necessary, all code requirements before commencement of construction and bring any discrepancies between code requirements and the construction documents to the attention of the Architect.
3. New wall construction shows dimensions to actual rough dimensions of wood. Gypsum board or other material not included in dimension. Exterior wall indicates rough stud dimension plus ½" exterior plywood sheathing.
4. Details and sections on the drawings are shown at specific locations and are intended to show general requirements throughout. Details noted "typical" imply all conditions treated similarly. Minor details not usually shown or specified, but necessary for proper construction of any part of the work shall be included as if they were indicated in the drawings. The plans are intended as a guide. The work is not limited to that shown on the drawings for a complete job.
5. Do not scale drawings.
6. All materials and construction to be incorporated into the work shall be in strict accordance with the latest edition of the ASTM specifications of the various trade institutes (ACI, AISC, etc.) where applicable.
7. The Architect shall not have control over or charge of and shall not be responsible for construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the Work; nor for taking any steps to achieve compliance with any rules or regulations related to construction means, methods techniques, sequences or procedures or safety precautions and programs in connection with the Work promulgated by the Federal Occupational Safety and Health Administration (OSHA), or by any similar State agency since all of these undertakings are solely for the Contractor's responsibility.

## **ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

8. The Owner and Architect agree the Architect has not undertaken any responsibility for the maintenance of safe conditions at or around the job site during the construction of the Project.
9. The Architect shall not be responsible for the Contractor's schedules or failure to carry out the Work in accordance with the Contract Documents. The Architect shall not have control over or charge or acts or omissions of the Contractor, Subcontractors or their agents or employees, or of any other person performing portions of the Work. Any damage to the existing structure or adjacent areas shall be rectified to the satisfaction of the Owner at the Contractor's expense.
10. In the performance of architectural services, the Architect's responsibility and liability for any error in design, losses, or expenses, shall be limited to the amount recoverable under insurance insuring the Architect for such errors, losses, and expenses, and shall not exceed the original contract cost of the work being removed. The Architect's responsibility and liability for any omissions in the design, which may result in additional work, shall not exceed the cost of modifying the existing work to accept said additional work. To the extent that there is no work in place, the Architect shall have no responsibility or liability for any costs or sums paid on account of said additional work. The Architect shall not be liable or responsible for any costs for any change which results in the addition of previously omitted work or for any improvement or betterment to the original construction documents or for any change requested by the Owner.

### **DIVISION 1 - CONTRACTOR**

1. The Contractor shall visit the building and site of the proposed work and examine the existing conditions prior to contract signing. The Contractor shall compare the existing conditions to the intent of the contract documents and shall notify the Architect of all discrepancies or qualifications, which may arise before proceeding with that portion of the work. Failure to notify will not relieve the Contractor of the responsibility of performing the work as intended by the contract documents. The Contractor shall make all corrections required due to his failure to coordinate such discrepancies.
2. Contractor shall bring errors and omissions, which may occur, in Contract Documents to the attention of the Architect in writing prior to bidding and written instructions shall be obtained before proceeding with the work. The Contractor will be held responsible for the results of any errors, discrepancies or omissions in the Contract Documents, of which the Contractor failed to notify the Architect before construction and/or fabrication of the work.
3. The Contractor shall verify all dimensions and job conditions at the job site sufficiently in advance of work to be performed to assure the orderly progress of the work, and shall verify or locate and protect all utility or service lines and existing site area from deterioration or damage. The Contractor shall verify all underground utilities before starting any excavation by contacting 1-800-272-1000. Contractor shall relocate all utilities in the way of new work.
4. The Contractor shall protect and preserve all existing items to remain and shall repair and/or replace any items damaged during the course of work to the satisfaction of the Owner at no additional cost.

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

5. The scope of demolition and removal to be performed shall not be limited by the drawings or specifications but shall include any and all work that shall be required, or directed by the Architect and/or Owner, in order to facilitate the new work.
6. All demolition materials and debris shall be legally disposed of by the Contractor away from the premises.
7. The Contractor shall provide protection for the general public and construction workers in and around the construction area. Adequate barriers shall be provided to exercise control of safe ingress and egress of premises. Emergency exits shall at no time be blocked.
8. The Contractor shall provide and maintain temporary facilities for protection and/or enclosure of areas of work and protection of areas where there is no further work. Remove temporary facilities when no longer required.
9. The Contractor shall coordinate all operations with the Owner, such as work areas used for storage, access to and from work areas, timing of work, special considerations of noisy operations, interruptions for mechanical and electrical services, etc. No flammable or toxic materials should be stored inside the building.
10. The Contractor shall not disrupt, disturb or encroach upon any adjoining properties. Use complete and adequate means and measures to protect any and all adjoining properties from and against construction conditions, which may be disruptive or damaging. Liability resulting from the execution of the work shall be the sole responsibility of the Contractor.
11. The Contractor shall supply all labor, materials and equipment required to complete the work as indicated on the drawings. Each contractor shall do all cutting, patching, repairing, etc., as required to complete his portion of the work.
12. The Contractor shall be bound to perform in strict compliance with the manufacturer's specifications and/or recommendations where required.
13. The Contractor shall be responsible for adequately bracing and protecting all work during construction against damage, breakage, collapse, distortion and misalignment according to applicable code standards and good practice.
14. The Contractor is always responsible for providing safe and appropriate structural support for all material and equipment such as lighting fixtures, pipes, mechanical equipment etc.
15. The Contractor shall make no changes or alterations to any structural elements without written approval of the Architect. Should unauthorized work of this nature cause any damage, the Contractor will be fully liable for all damages caused to the building or any person or property.
16. Contractors shall maintain the premises clean and free of all trash, debris and shall protect all adjacent work from damage, soiling, paint, etc. All fixtures, equipment, glazing, floors, etc., shall be left clean and ready for occupancy upon completion of the project.

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

17. The Contractor shall maintain insurance during the progress of the work to properly protect all employees, Subcontractors, and Deliverymen, and hold the Owner and Architect harmless by adding as additional insureds.
18. The Contractor shall furnish a certificate of insurance to the Owner prior to starting Work.
19. The Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Contract.
20. The Contractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, Subcontractors and their agents and employees, and other person performing portions of the Work under a contract with the Contractor.
21. The Contractor shall coordinate, secure and pay for the building permit and other permits and governmental fees, licenses and inspections, and reimbursed by the Owner, necessary for proper execution and completion of the Work which are customarily secured after execution of the Contract and which are legally required when bids are received or negotiations concluded.
22. Contractor shall obtain an amended certification of occupancy upon completion of work.
23. The Contractor shall keep the premises and surrounding area free from accumulation of waste materials or rubbish caused by operations under the Contract. At completion of the Work the Contractor shall remove from and about the Project waste materials, rubbish, the Contractor's tools, construction equipment, machinery and surplus materials.

**DIVISION 1 - OWNER**

1. The Owner shall furnish additional surveys describing physical characteristics, legal limitations and utility locations for the site of the Project if necessary.
2. Except for permits and fees, which are the responsibility of the Contractor, the Owner shall secure and pay for necessary approvals, easements, assessments and charges required for construction, use or occupancy of permanent structures or for permanent changes in existing facilities.
3. The Owner is responsible for any additional expenses that would be required to perform and complete work due to unforeseen conditions and local building officials inspections and comments.
4. The Owner shall provide the Contractor with clear and unobstructed access to the Project. All utility cost during construction shall be paid for by the Owner. All temporary adjustments to the utilities shall be provided by the Contractor.
5. The Owner is responsible for all color and finish selections unless otherwise indicated on Drawings.

## **ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

### **DIVISION 1 - CORRECTION PERIOD**

1. At the completion of the job, before final payment, the Contractor is to provide the Owner with a document stipulating a minimum of one-year guarantee of all labor and materials by the Contractor. Where specific products carry a longer guarantee, these shall be turned over to the Owner.
2. The Contractor states to the Owner and the Architect that materials and equipment furnished under the Contract will be of good quality and new unless otherwise required or permitted by the Contract Documents, that the Work will be free from defects not inherent in the quality required or permitted, and that the Work will conform with the requirements of the Contract Documents. Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective.
3. The Contractor's Correction Period excludes remedy for damage or defect caused by abuse, modifications not executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear under normal usage. If required by the Owner, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

### **DIVISION 2 - FOUNDATIONS**

1. Before excavation for any foundations, the Contractor shall locate and stake out all underground services; gas, electric, water, sewer, storm lines, etc.
2. Presumptive soil bearing capacity is 2,000 p.s.f. on undisturbed soil. Bottom of exterior footings shall be minimum of 3'-0" below finish grade.
3. Backfill shall be free of clay, rock or gravel larger than 2" in any direction, debris, vegetable matter, waste and frozen materials. Place backfill and fill materials in layers not more than 8" in loose depth for material compacted by heavy compaction equipment, and not more than 4" in loose depth for material compacted by hand-operated tampers.
4. All slabs on grade shall bear on crushed stone, mechanically compacted to 98% maximum density as determined by ASTM D1557.
5. Backfill shall be brought up equally on each side of foundation walls. Do not backfill until walls have cured.
6. No excavation shall be made whose depth below the footing is greater than  $\frac{1}{2}$  of the horizontal distance from the nearest edge of that footing.
7. Building site shall be kept dry so that erosion will not occur in the foundations.

### **DIVISION 2 - SITE WORK**

1. Asphalt driveway shall be installed with 2" top course over 4" thick dense graded aggregate over compacted sub-grade.

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

2. Regrade and seed as required all areas disturbed during construction. The ground immediately adjacent to the foundation shall be sloped away from the building not less than 1 : 12 horizontal for a minimum distance of 8 feet, or an approved alternate method of diverting water away from the foundation shall be used.
3. Landscaping by Owner.

**DIVISION 3 - CONCRETE**

1. All concrete work shall comply with the requirements of the ACI Building Code.
2. Concrete shall have a minimum of 28-day compressive strength of 3,000 psi. Slump shall be 2" minimum and 4" maximum.
3. All concrete shall be ready mix type. All concrete mixes shall be certified by supplier with certified design mix and delivery tickets and shall not exceed ninety (90) minutes lapsed time between materials mixing and depositing.
4. Concrete Materials:
  - A. Portland Cement: Shall conform with ASTM C150, Type I/II, unless otherwise acceptable to Architect. Use one brand of cement throughout project.
  - B. Normal Weight Aggregates: ASTM C33, and as herein specified. Provide aggregates from a single source for expose concrete.
  - C. Water: Drinkable.
5. Reinforcing:
  - A. All bar steel shall meet the requirements of ASTM A615 Grade 60. WWF shall comply with ASTM A185.
  - B. Clearances of reinforcing shall be 3 inches from bottom surfaces of footings.
  - C. Where continuous bars are called for, they shall run continuously around corners and lapped at necessary splices or hooked at discontinuous ends. Laps shall be 40 bar diameters. Bar laps may be offset to avoid control or construction joints.
6. Provide concrete reinforcing bars in locations, and of sizes as indicated on the drawings. Lap all bars a minimum of 40 diameters.
7. Prior to construction of new concrete slabs, all existing topsoil shall be removed and the exposed subgrades shall be thoroughly proofrolled using suitable static roller. Any required new fill should be placed in accordance with Division 2.

## **ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

8. Within on-grade concrete slabs, the WWF reinforcement shall be located midway in the slab thickness. Reinforcement shall be supported by pre-manufactured "metal chairs".
9. All interior concrete slabs, which will be left exposed, shall be sealed.
10. Provide and install a six (6) mil polyethylene vapor barrier complying with ASTM E1745 over porous fill, place reinforcement without damaging the vapor barrier and then place concrete as indicated on the drawings.
11. All exterior concrete to be air-entrained to 6%, and in accordance with ASTM C260.
12. Finish of slabs shall conform to Chapter 11, ACI 301. Slabs shall be placed in one operation and finished monolithically. Exterior surfaces shall be finished with a wood float; interior surfaces shall be steel troweled.
13. Provide adequate means and safeguards as required and further identified in ACI standards for "cold weather concrete" placement and protection.
14. Provisions must be taken to protect all concrete work from frost damage with special attention paid to footings and other on-grade construction prior to back filling and enclosing the building.
15. Footing elevations shown on the drawings are for general scope of the work and are intended to establish a contract quantity of work.
16. Control joints, bond breakers and expansion joints to be placed where indicated or otherwise required by ACI standards.
17. Construction joints 3/8 inch in width and 4 inch in depth shall be provided between concrete paving, curb, and building; and within paving and curbs, they shall be spaced at equal intervals and, in no case, exceed 6 feet. All joints shall contain 3/8-inch thick pre-molded joint filler and edges shall be formed with a joint of 1/8-inch radius.
18. Allow suitable provisions to prevent cold jointing of concrete.
19. No chemical curing agents shall be allowed without express written permission of the Architect.
20. The Contractor shall be responsible for and provide concrete testing by an independent testing agency in accordance with ASTM C31 and ASTM C36. Test cylinder shall be made for every 50 cubic yards of concrete placed or for any lesser amount placed on any one day.

### **DIVISION 4 - MASONRY**

1. All masonry units shall be carefully laid, plumb and level with well-filled mortar joints and solid mortar beds. Masonry units shall be laid in running bond with vertical joints in alignment in alternate courses. Comply with IRC Chapter 6 (Wall Construction).

## **ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

2. All exposed joints shall be compacted and tooled to produce a slightly concave joint. Joints unexposed in the finish work shall be struck, such as parged surfaces. CMU walls shall be parged on the exterior surface below ground level with not less than 3/8 inch Portland cement mortar. Parging shall be covered at footing. Dampproofing to be installed over parging (see Division 7).
3. Provide hot-dipped galvanized truss type horizontal joint reinforcement (min. 9 gage) at 16" on center vertical in all masonry walls complying with ASTM A82. Provide fabricated corner sections at all corners.
4. Concrete masonry units shall be Grade N, Type II standard 8" X 16" with thickness as indicated on the drawings and comply with ASTM C90 and C145. Manufactured by a member of NCMA; with a minimum compressive strength of 1,900 psi at 28 days.
5. Mortar:
  - A. All mortar shall be type M for below grade, and N above grade.
  - B. Water shall be potable and free from injurious amounts of oil, soluble salts, alkali, acids, organic impurities and other deleterious materials.
7. Cold weather protection procedures shall be performed in strict accordance with the requirements of the National Concrete Masonry Association and the Brick Institute of America. No additives or admixtures of any kind shall be used without the express written consent of the Architect.
8. Upon completion, point up all exposed masonry walls, remove loose mortar, cut out defective joints and repoint where necessary. Masonry surfaces to be exposed shall be thoroughly cleaned. Leave work surfaces free from mortar, efflorescence and other stains at completion of work.
9. Install 1/2" x 18" galvanized anchor bolt with single pressure treated sill plate (1/2" x 20" anchor bolt for double plate) at top of masonry wall. The bolts shall be embedded in masonry walls to a depth of not less than 16 inches in grouted unit masonry. There shall be a minimum of two anchor bolts per section of plate and anchor bolts shall be placed 12 inches from the end of each section of plate, with intermediate bolts spaced a maximum of 6 feet. Install sill gasket between top of cmu and sill plates.

### **DIVISION 6 - WOOD**

1. Rough Carpentry:
  - A. Provide framing members of sizes and on spacing shown. Do not splice structural members between supports. Do not notch any beams or structural members without consent of Architect. Comply with IRC Chapter 5 (Floors), IRC Chapter 6 (Wall Construction), and IRC Chapter 8 (Roof-Ceiling Construction).

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

- B. Anchor and nail to comply with IRC Fastener Schedule for Structural Members Table R602.3 (1). All fasteners, flashing, brackets and hangers that come in contact with pressure treated wood, in any fashion, shall be stainless steel (grade 304 or 316), or high grade galvanized steel (G-185). All pressure treated or natural decay resistant wood to comply with AWPAC2. The use of CCA preservatives is not permitted.
  - C. Protect materials from exposure to weather and contact with damp or wet surfaces. Stack lumber and plywood; provide air circulation within stacks and under temporary cover.
  - D. Set all joists and beams with natural camber up. Securely spike together joists ends lapped over bearing.
  - E. Provide 5/4" x 3" cross bridging at center span or 8'-0" o/c maximum. Use solid blocking at ends unless otherwise noted.
  - F. Double frame under all parallel partitions.
  - G. Headers for openings as follows, unless otherwise indicated:
    - 3'-0" to 5'-0" use (2) 2" x 8" (700 p.s.f. max.)
    - 5'-0" to 7'-0" use (2) 2" x 10" (582 p.s.f. max.)
    - 7'-0" to 8'-0" use (2) 2" x 12" (658 p.s.f. max.)
  - H. For spans 6'-0" and over provide double stud bearing at each end, unless otherwise indicated.
2. Lumber:
- A. Nominal sizes are indicated. Provide actual sizes as required by PS20, for moisture content specified for each use. Provide dressed lumber, S4S. Provide seasoned lumber with 19% maximum moisture content at time of dressing and shipment.
    - 1. Framing Joists: Douglas Fir-Larch, #1 Grade or better, Fb = 1,000 P.S.I. minimum.
    - 2. Vertical Framing, Plates and Blocking: Douglas Fir-Larch stud grade or better, Fb = 700 P.S.I. minimum.
  - B. Miscellaneous wood bridging, bracing, or blocking:
    - 1. Shall be 2 x (dimensional) Douglas Fir-Larch, Construction Grade or better. (The above occurring at an exterior condition, ground, concrete, and/or masonry contact, or within 8" of grade etc. shall be pressure treated lumber).
  - C. All wood sill plates in contact with masonry walls or concrete slabs shall be pressure treated wood.
3. Construction Panels:
- A. Each panel shall be identified with the appropriate trademark of APA, and shall meet the requirements of the latest edition of Voluntary Product Standard PS 1, Voluntary Product Standard PS 2, or APA PRP-108 Performance Standards.

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

- B. All panels which have any edge or surface exposed long term to the weather shall be classed Exterior.
  - C. Sub-flooring:  $\frac{3}{4}$ " APA performance rated plywood, Exposure 1 durability classification, span rating as required to suit joist spacing indicated.
    - 1. Install with long dimension or strength axis of the panel across supports, and with panel continuous over two or more spans. Panel end joints shall occur over framing. Spacing of  $\frac{1}{8}$ " is recommended at panel ends and edges, unless otherwise indicated by the panel manufacturer (supported panel joints shall occur approximately along the centerline of framing with a minimum bearing of  $\frac{1}{2}$ ").
    - 2. Nail 6" o.c. along supported panel edges and 12" o.c. at intermediate supports with 8d common nails.
    - 3. Sand subfloor joints if necessary to smooth surface prior to installing finish flooring.
  - D. Wall sheathing:  $\frac{1}{2}$ " APA performance rated plywood sheathing, Exposure 1 durability classification, span rating as required to suit stud spacing indicated.
    - 1. Spacing of  $\frac{1}{8}$ " is recommended at panel ends and edges, unless otherwise indicated by the panel manufacturer (supported panel joints shall occur approximately along the centerline of framing with a minimum bearing of  $\frac{1}{2}$ ").
    - 2. Nail 6" o.c. along supported panel edges and 12" o.c. at intermediate supports with 6d common nails.
  - E. Roof sheathing:  $\frac{1}{2}$ " (unless otherwise indicated on drawings) performance rated sheathing, Exposure 1 durability classification, span rating as required to suit rafter spacing. Install aluminum "H" clips as required.
    - 1. Install with long dimension or strength axis of the panel across supports, and with panel continuous over two or more spans. Suitable edge support shall be provided by use of panel clips, tongue-and-groove edges, or lumber blocking between joists.
    - 2. Panel end joints shall occur over framing. Spacing of  $\frac{1}{8}$ " is recommended at panel ends and edges, unless otherwise indicated by the panel manufacturer (supported panel joints shall occur approximately along the centerline of framing with a minimum bearing of  $\frac{1}{2}$ ").
    - 3. Nail 6" o.c. along supported panel edges and 12" o.c. at intermediate supports with 8d common nails.
    - 4. Cover roof sheathing as soon as possible with roofing felt or shingle underlayment for protection against excessive moisture prior to roofing application.
4. Laminated Veneer Lumber (LVL):
- A. All Microllam and/or Parallam beams to be as engineered and manufactured by TrusJoist / Macmillan.
  - B. All connections are to be made using prefabricated connectors. Toenailing will not be permitted. Connectors to be manufactured by Simpson or approved equal.

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

- C. Provide ½" air gap (vertically) between masonry or concrete. Bearing point of beam to rest on steel plate shims or metal flashing. Beam cannot be in direct contact with masonry.
- 5. Finish Carpentry:
  - A. All work shall conform to the quality standards of the Architectural Woodwork Institute (AWI Section 300) for Premium Grade work. Finished woodwork shall be dressed and sanded, free from machine and tool marks, abrasions, raised grain or other defects on surfaces exposed to view. Exposed wood or laminate surfaces shall be uniform in color, texture, and/or grain.
  - B. Lumber shall be sound and dry, selected for compatibility of grain and color and containing no defects that cannot be concealed by finishing methods indicated, i.e. stained transparent or opaque paint finish as selected by Owner. Members 1 5/8" and wider shall be backed out, except where ends are exposed. Scribing and joining shall accomplish hairline joints. Finish trim corner shall be mitered.
  - C. All wood base, door and window trim shall be selected by Owner.
  - D. Sink all nail heads in finished work with a nail set. Nails and screws, where possible, shall be concealed. All nails shall be blind-nailed wherever possible; otherwise the nailing shall be located, driven and filled so as not to be visible in the finish. Countersink face screws and plug with matching wood.
  - E. All kitchen cabinets, bathroom vanities, and counter tops shall be selected by Owner.
    - 1. Coordinate with electrical, plumbing fixtures, trim and related accessories.
    - 2. Caulk at all perimeter wall edges.
- 6. Deck Construction:
  - A. All structural wood framing members to be pressure treated or natural decay resistant wood to comply with AWPA C2. The use of CCA preservatives is not permitted.
    - 1. Framing Joists: #2 Grade, Fb = 1,000 P.S.I. minimum.
    - 2. Base Bid: Decking and Guardrails: Composite material.
    - 3. Alternate: Appearance Lumber: #1 Grade Pressure-treated.
  - B. Deck floor joists shall be supported by joist hangers, connected to a ledger that matches size of joists. The ledger shall be connected to the existing house rim joist with ½" diameter, galvanized lag bolts of sufficient length to bolt firmly into existing rim joist, installed 16" on center, staggered. Install two bolts, one above the other, on each end. Provide a minimum ½" space between the ledger and house for ventilation and drainage by using 1 ½" diameter galvanized washers. Provide continuous copper flashing at the face of the house to prevent the passage of moisture into the wall, or to any untreated wood (Not required if against vinyl siding, metal siding, or masonry. Shims must not crush the siding when bolts are tightened).

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

- C. Guardrails to be 36 inches above finished deck with balusters constructed such that a sphere with a diameter of 4 inches cannot pass through any opening. Guardrails shall not have an ornamental pattern that would provide a ladder effect. Guardrails shall be designed and constructed for a concentrated load of 200 pounds applied at any point and in any direction along the top railing member. The in-fill area of the guard system shall be constructed for a horizontal concentrated load of 200 pounds applied on a one square foot area at any point.
  - D. All pressure treated wood support posts shall be connected to the concrete footing with a 16" x ½" diameter hot-dipped galvanized anchor bolt in the concrete, and a galvanized base plate secured to anchor bolt and post.
  - E. Use Simpson ZMax or USP Structural Connector's Triple Zinc rated G-185 coating for hot-dipped galvanized products, including joist hangers. Class rating of 40 or higher when using electrogalvanized fasteners or expansion bolts.
  - F. Screws and nails to be hot-dip galvanized, stainless steel, or polymer-coated.
7. Deck Stair Construction:
- A. Stair construction to be as follows:
    - 1. Stringers: 2" x 12" minimum with 3 ½" effective depth, 16" o/c.
    - 2. Treads: 10" minimum depth.
    - 4. Risers: 8 ¼" maximum height.
    - 5. Minimum Stair Width: 36".
    - 6. Solid risers or risers permitting no more than a 4" sphere are required.
    - 7. Dimensional Uniformity: There shall not be a variation exceeding 3/16" in the depth of adjacent treads or in the height of adjacent risers. The tolerance between the largest and smallest riser or tread shall not exceed 3/8" in any flight of stairs.
  - B. Handrails:
    - 1. All stairways with 3 or more risers require continuous handrails and guardrails (on both sides).
    - 2. All handrails shall have a circular cross section with an outside of 1 ½". Edges shall have a minimum radius of 1/8".
    - 3. Handrails to be smooth and free of any sharp edges or splinters.
    - 4. The clear space between the handrail and adjacent wall or surface shall not be less than 1 ½".
    - 5. Handrails to be minimum 34", maximum 38" above front edge of step nosing, and shall be continuous the full length of the stairs, and both ends returned to posts.
    - 6. Handrails shall be designed and constructed for a concentrated load of 200 pounds applied at any point.
8. Deck Joist Hangers and Connectors:
- A. All joist hangers to be Simpson ZMax (or USP Structural Connector's Triple Zinc) rated G-185 coating for hot-dipped galvanized products as follows:

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

1. Post to Concrete Footing: #AB44 for 4" x 4" wood posts; #AB66 for 6" x 6" wood posts.
  2. Post to Girder: #LPC4 for 4" x 4" wood posts; #LPC6 for 6" x 6" wood posts.
  3. Joist to Girder: #H3.
  4. Joist Hanger: #LU28 for 2" x 8" joists; #LU210 for 2" x 10" joists.
9. Joist Hangers and Connectors:
- A. All joist hangers and connectors to be by Simpson, where indicated on drawing, or as required.
  - B. The vertical load bearing capacity, torsion moment capacity, and deflection characteristics of joist hangers shall be determined in accordance with ASTM D1761.

**DIVISION 7 - THERMAL AND MOISTURE PROTECTION**

1. Provide and install flashing as indicated on the drawings and at all roof-to-wall conditions, exterior openings, and elsewhere as required providing watertight/weatherproof performance.
  - A. Aluminum flashing shall meet the requirements of ASTM B 209 and be minimum 0.032" thick standard building sheet with plain finish. Provide kick-out at base of all flashing at roof-to-wall conditions. Install adhesive membrane over step flashing.
  - B. Copper flashing to be minimum 5 oz. at all pressure-treated wood conditions (refer to Division 6, Parts 1.B and 9.B).
  - C. Pan flash all window and door openings.
2. Install flashing and sheet metal in compliance with "Architectural Sheet Metal Manual" by SMACNA.
3. Rainwater Conductors
  - A. Provide and install .032 aluminum K-style gutters, and leaders as indicated on the drawings and specified herein. Where possible, connect to and match existing gutters and leaders.
  - B. Color selected by Owner from standard range.
  - C. Provide hangers, anchors and accessories as recommended by manufacturer for a complete installation.
  - D. Extend leaders to underground drains or splash blocks as directed by Owner.
4. Bituminous Dampproofing (where hydrostatic pressure will not occur):
  - A. Dampproofing shall consist of a bituminous material, 3 pounds per square yard of acrylic modified cement, 1/8 – inch coat of surface-bonding mortar complying with ASTM C887.

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

- B. Install dampproofing membrane on the earth side of all walls from the finished grade or finish floor as applicable down the wall face and over the top of the footing.
  - C. If ground-water investigation by others indicates that a hydrostatic pressure condition exists, and the drawings do not indicate a ground-water control system, foundation walls shall be waterproofed in accordance with Section R406.3.
5. Rigid Perimeter Insulation:
- A. Furnish and install in thickness as indicated on the drawings by the manufacturers standard board sizes. Perimeter insulation shall be closed cell, glass reinforced polyisocyanurate foam core boards with foil facers, both sides. Product shall conform to Federal Specification HH-1-1972/1 Class 2.
6. Kraft-Faced Batt Insulation:
- A. Insulation shall be furnished in thickness and with R-values as indicated on the drawings, and in widths to match frame spacing stud spacing. Insulation shall have a flame-spread index not to exceed 25 with an accompanying smoke-developed index not to exceed 450 when tested in accordance with ASTM E84.
  - B. Batt insulation shall fit all framing spaces including areas between joists and outside headers, behind electrical outlets and piping and other areas in such a way as to form a complete insulating blanket around the heated areas of the structure.
  - C. Vapor barriers shall be positioned on the heated side of the insulation blanket.
  - D. Install vent chutes at all soffit vent locations where required, and as indicated on drawings.
7. Sealant:
- A. Furnish and install sealant as indicated and otherwise required.
    - 1. Colored urethane sealant for exterior use (Note: Install sealant on top and sides of windows and doors).
    - 2. Paintable acrylic latex sealant for general interior use.
    - 3. White silicone sealant for around plumbing fixtures.
  - B. Materials shall be delivered to the site and stored in unopened containers bearing the manufacturer's name and product identification. Follow manufacturer's recommendations for handling products containing toxic materials. Keep flammable materials away from heat, sparks, and open flame.
  - C. All caulking and sealant, primers and accessories shall be nonstaining to adjacent exposed materials. Products having similar application and usage shall be of the same manufacturer and type. Colors shall be selected by the Owner from approved manufacturer's standard range. Use gum consistency compounds unless otherwise required by job conditions.

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

- D. Primers shall be as recommended for each substrate by approved manufacturer of each caulking and sealant material used.
  - E. Sealant shall be applied by the gun method using nozzles of proper size to fit the several widths of the joints.
  - F. The sealant shall be driven into the joint grooves with sufficient pressure to force out all air and to solidly fill the joint grooves. Sealant where exposed shall be free of wrinkles and shall be uniformly smooth. Joints in wash surfaces shall be filled slightly convex to obtain a flush joint when dry. Upon completion of caulking, any joints not entirely filled shall be roughened and filled as specified and the exposed surface tooled smooth.
  - G. The surface of all materials adjoining caulked joints shall be cleaned of all smears of compound or other soiling due to application of sealant.
8. Asphalt Shingle Roofing:
- A. Asphalt roof shingles to be 30 year limited warranty. Color and style as selected by Owner from the manufacturers standard range. Installation shall comply with IRC Section R905.
  - B. Asphalt shingles shall conform to ASTM D3462 or D225.
  - C. All shingles shall be secured to the roof with not less than 6 fasteners per shingle located above slots and indentations.
  - D. Provide single layer of #15 roof felt underlayment for all roof slopes over 4 over 12.
  - E. Shingle head lap shall not be less than 2 inches.
  - F. Install one layer of polymer-modified asphalt with an adhesive backing (W.R. Grace Ice & Water Shield membrane or equal), from roof edge at gutter and extend up to roof to a point 24 inches from inside of exterior wall and in all valleys.
9. Infiltration Barrier:
- A. Install TYVEK House Wrap according to manufacturer's recommendations at the following locations:
    - 1. Vertical walls over plywood sheathing.
    - 2. Floor and rim joist areas.
    - 3. Headerwrap at the top plates.
  - B. Tape any all seams and at the band joist areas. Tape any damaged areas.
  - C. Install Tyvek Flex Wrap at sills of windows and around round top windows.

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

10. Vents:

- A. Ridge vent to be Ridge Master Plus by Mid-America Building Products Corporation, or approved equal.
- B. Soffit vent to be Soffit Master by Mid-America Building Products Corporation, or approved equal, when matching existing soffit finish.

**DIVISION 8 - DOORS AND WINDOWS**

1. General:

- A. Furnish and install, doors, frames, windows and glazing as indicated on drawings, and specified herein.
- B. Plans show nominal door width, all door heights to be 6'-8" unless otherwise noted. Provide doors with minimum clearances or overloads necessary for operation without binding. Allow clearance for floor coverings and/or thresholds as indicated.
- C. Glazing in locations which may be subject to human impact such as in fixed, sliding or swinging panels of sliding or swinging type doors; glazing in storm doors; glazed sidelights adjacent to operable doors; shall meet the requirements set forth in the IRC Section R308. All glazed panels located within 12 inches of a door opening, shall be tempered glass, unless otherwise noted.
- D. Provide and install hardware items as selected by Owner.
- E. Provide a complete weather tight installation as follows: Maintain alignment with adjacent work. Secure assembly to framed openings, plumb, and square, without distortion. Place insulation in shim spaces around unit perimeter, to maintain continuity of building thermal barrier. Install sealant and related backing materials at perimeter of assembly.

2. Interior Wood Doors:

- A. All wood doors shall be 1 3/8" thick by size specified, raised panel hollow core doors, unless otherwise directed by Owner.
- B. Fit hardware prior to the application of painter's finish, remove during the finishing operation and reset after completion of the finish.

3. Wood Windows and Patio Doors:

- A. Window and Door units shall be 400 Series, High Performance Low-E glass, manufactured by Andersen Window Corporation.

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

- B. Provide a complete window installation, including but not limited to factory assembled clad windows, glass and glazing, muntin grilles, subsill, anchorages, attachments, and shims in accordance with the drawings and the best recommended practice of the window manufacturer and as follows:
  - 1. Double hung windows to include screens, stool, and interior wood trim.
  - 2. Circle top windows to include extension jambs, interior wood arch casing, and plinth blocks.
  - 3. Hinged patio or sliding doors to include screens, oak sills, door hardware, and interior wood trim.
  - 5. Exterior color, interior wood finish, and window treatment to be selected by Owner.
  - 6. Skylights to be by Velux, unless otherwise noted, with all accessories included as per model specified on drawings.
- C. Provide a complete weather tight installation as follows:
  - 1. Maintain alignment with adjacent work.
  - 2. Secure assembly to framed openings, plumb, square, without distortion.
  - 3. Place insulation in shim spaces around unit perimeter, to maintain continuity of building thermal barrier.
  - 4. Install sealant and related backing materials at perimeter of assembly in accordance with Division 7.

**DIVISION 9 - FINISHES**

- 1. Gypsum Board:
  - A. Provide and install gypsum wallboard of the type and thickness indicated. Provide all materials and accessories as required for a complete installation in accordance with the manufacturer's recommendation and the "Gypsum Construction Handbook" published by United States Gypsum Co. and IRC Chapter 7 (Wall Covering)
  - B. Provide ½" gypsum board complying with ASTM C36, and in maximum lengths available to minimize end-to-end butt joints, edges to be tapered. All surfaces exposed for finish painting to be finished to Level 4.
  - C. Joint treatment materials to comply with ASTM C475, type recommended by the manufacturer for the application indicated. Tape or mesh can be used with setting-type compound. Tape only with ready-mix compound.
  - D. Provide ½" water resistant gypsum board complying with ASTM C630 in all wet areas, and in maximum lengths available to minimize end-to-end butt joints with edges to be tapered. Finish to Level 1.
  - E. Dens Shield Tile Backer underlayment to be used for all tile applications (i.e. around tub and shower enclosures at walls, ceilings, and tub platforms). Finish to Level 1.

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

**2. Painting:**

- A. All surfaces to be finished shall be clean and free of foreign materials (dirt, grease, asphalt, rust, etc.).
- B. All exterior and interior surfaces shall be finish painted except color coordinated factory finish surfaces. Colors of factory-finished materials shall be selected by Owner from the approved manufacturer's standard colors.
- C. Application shall be in a workmanlike manner providing a smooth surface. Perform preparation and cleaning procedures in accordance with paint manufacturer's instructions for each particular substrate condition and where directed by Owner.
- D. Mix and prepare painting materials in accordance with manufacturer's directions.
- E. Apply paint in accordance with manufacturer's directions. Use applicators and techniques best suited for substrate and type of material being applied.
  - 1. New walls and ceilings shall receive one (1) coat of primer and two (2) coats of a high quality eggshell finish.
  - 2. Existing walls and ceilings affected by work shall be repaired as required, and free of cracks, and shall receive one (1) coat of primer and (2) coats of a high quality eggshell finish.
  - 3. All wood trim where work occurs shall receive two (2) coats of a high quality semi-gloss paint.
- F. Handling, storage and installation of all coatings, as well as preparation of the surface to be coated, must be done in strict accordance with the manufacturers recommendations. Ready-mixed paint shall not be thinned, except as permitted in the application instructions.

**DIVISION 10 - SPECIALTIES**

**1. Fire Protection:**

- A. For additions 25% or larger of existing house area:
  - 1. Smoke detectors shall be interconnected, installed and maintained in the immediate vicinity of the bedrooms; in all bedrooms; and in each story within the dwelling unit, including the basement.
- B. In addition to the required AC primary power source, required smoke detectors shall receive battery backup power.

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

- C. The detectors shall be wired in such a manner that the actuation of one alarm will actuate all of the alarms within the dwelling.
- D. Provide heat detector in Garage, connected to alarm system.
- F. Install carbon monoxide smoke detectors as required by code, and to comply with UL 2034.

**DIVISION 15 - MECHANICAL**

- 1. HVAC (to be designed by others):
  - A. The HVAC Contractor shall verify all conditions on the plans and at the site prior to starting any work. All work to conform to the 2003 International Mechanical Code.
  - B. Contractor shall provide all labor, materials and equipment necessary to install ventilation, heating and air conditioning as selected by Owner. Contractor shall test and balance system.
  - C. The Mechanical work shall be installed as required. Contractors shall coordinate work with all other trades, architectural and structural conditions.
  - D. All HVAC equipment to be in conditioned space. Install ducts within conditioned space, if possible, not in exterior walls or in or under concrete floor slabs.
  - E. Bathroom / lavatory exhaust fans to be by Broan, minimum 110 cfm. Duct all fans to exterior.
- 2. Plumbing:
  - A. Plumbing Contractor shall verify all conditions on the plans and at the site prior to starting any work. All work to conform to the 2003 National Standard Plumbing Code. Selection of fixtures, hardware, and colors by Owner, and installed by Contractor.
  - B. Contractor shall provide all labor, materials and equipment necessary to install plumbing and related fixtures as selected by Owner. Contractors shall coordinate work with all other trades, architectural and structural conditions. Contractor shall install and check all pressure reducing valves, pop off valves and other safety devices and test all installations to assure proper operation.
  - C. Extend existing service to meet needs of fixtures as required.
  - D. Toilets to be 1.6-gallon tank type and are selected by Owner.

**DIVISION 16 - ELECTRICAL**

- 1. Electrical Contractor shall verify all conditions on the plans and at the site prior to starting any work. All work to conform to the 2002 National Electrical Code.

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

2. Contractor shall provide and install all labor, materials and equipment necessary to install wiring, related fixtures, and controls. Subcontractor shall coordinate work with all other trades. Terminal hookup is required of all fixtures and appliances, motors, fans and controls.
3. Electrical system layouts are generally diagrammatic, location of outlets and equipment are approximate. Exact routing of wiring, locations of outlets, etc. shall be governed by structural conditions and obstructions. Wiring for equipment requiring maintenance and inspection shall be readily accessible.
4. Electrical Contractor is to coordinate all concealed utilities at potential work areas prior to beginning any work.
5. All electrical equipment, breakers, etc. shall be properly labeled.
6. Materials and equipment shall be new and listed by Underwriter's Laboratories, Inc. and bear their label wherever standards have been established and their label service is regularly furnished.
7. Verify and locate all receptacles prior to installation of gypsum board.
8. If, upon inspection by building official, an electric wiring system is found defective and unsafe, the Owner is responsible for all revisions until system has been made to conform to code.
9. Install receptacles at 1'-3" to centerline above finish floor unless otherwise noted. Install light switches at 4'-0" to centerline above finish floor unless otherwise noted.
10. Provide GFI outlets where shown on plans and required for compliance with applicable codes and regulations. Install receptacles in toilet rooms and kitchen above counter top unless otherwise noted on plans.
11. All light fixtures, switches, and receptacles to be selected by Owner.
12. All recessed incandescent fixtures shall be Type IC non-rated, installed inside a sealed box constructed from a minimum ½ inch thick gypsum board or constructed from a perforated polymeric vapor barrier, or other air-tight assembly manufactured for this purpose, while maintaining required clearance of not less than ½ inch from combustible material and not less than 3 inches from insulation material.
13. Contractor shall verify all wiring requirements with Owner regarding CATV, computer and telephone jack locations.

**END OF SPECIFICATION**

7

FOR ALL PERMITS AFFECTING A RESIDENTIAL STRUCTURE  
(REGARDLESS IF A FIRE PERMIT IS REQUIRED) A MINIMUM OF 1 (ONE)  
BATTERY OPERATED OR ELECTRIC SMOKE DETECTOR IS REQUIRED  
ON EACH LEVEL AND IN THE VICINITY OF THE SLEEPING ROOMS. AS  
OF APRIL 7, 2003 THE STATE OF NJ REQUIRES THE INSTALLATION OF  
AT LEAST 1 (ONE) CARBON MONOXIDE DETECTOR IN THE VICINITY OF  
ALL SLEEPING ROOMS. THIS APPLIES TO ALL DWELLING UNITS  
CONTAINING A FUEL BURNING APPLIANCE OR ATTACHED GARAGE.

For work not requiring a fire inspection for fire alarms in accordance with the code,  
homeowners or their agents (contractors) shall be required to confirm the  
installation of these devices. This may be done by signing the below affidavit in lieu  
of an inspection.

\*\*\*\*\*PLEASE READ AND SIGN\*\*\*\*\*

I hereby certify that a minimum of one smoke detector is installed and is operational on each level of this residential structure in the immediate  
vicinity of the sleeping rooms. I further certify that a minimum of one carbon monoxide detector is installed and operational in the vicinity of the  
sleeping rooms. Also, I understand that failure to install and maintain these devices in an operational condition is a violation of the New Jersey  
Administrative Code 5:23 and may subject me to penalties as prescribed by law.

NAME: Edward D. Setaia Jr  
SIGNATURE: Edward D. Setaia Jr DATE: 1-13-06  
BLOCK: 13 LOT: 10, 11, 12 ADDRESS: 1657 West Princeton Ave

Permit Number

## REScheck Compliance Certificate 2000 IECC

Checked By/Date

REScheck Software Version 3.6 Release 2

Data filename: C:\DOCUME~1\Owner\MYDOCU~1\ARCHIT~1\ENERGY~1\Abel.rck

PROJECT TITLE: Abel Residence

CITY: Mantoloking

STATE: New Jersey

HDD: 5294

CONSTRUCTION TYPE: Single Family

WINDOW / WALL RATIO: 0.09

DATE: 01/18/06

DATE OF PLANS: 1/18/06

### PROJECT DESCRIPTION:

One story addition

1657 West Princeton Avenue

Brick, New Jersey

### DESIGNER/CONTRACTOR:

Daniel Fortunato, AIA

98 Fairfield Road

Princeton, New Jersey

08540

### PROJECT NOTES:

Please note that the ResCheck does not offer Brick as one the city options, so Mantoloking was selected as the next closest city offered.

### COMPLIANCE: Passes

Maximum UA = 142

Your Home UA = 137

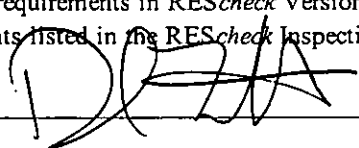
3.5% Better Than Code (UA)

|                                            | Gross<br>Area or<br>Perimeter | Cavity<br>R-Value | Cont.<br>R-Value | Glazing<br>or Door<br>U-Factor | UA |
|--------------------------------------------|-------------------------------|-------------------|------------------|--------------------------------|----|
| Ceiling 1: Cathedral Ceiling (no attic)    | 544                           | 19.0              | 0.0              |                                | 28 |
| Wall 1: Wood Frame, 16" o.c.               | 803                           | 13.0              | 0.0              |                                | 58 |
| WDH3046: Wood Frame:Double Pane with Low-E | 20                            |                   |                  | 0.330                          | 7  |
| CTN30: Wood Frame:Double Pane with Low-E   | 10                            |                   |                  | 0.300                          | 3  |
| WDH2046: Wood Frame:Double Pane with Low-E | 6                             |                   |                  | 0.330                          | 2  |

|                                                |     |      |     |       |    |
|------------------------------------------------|-----|------|-----|-------|----|
| FWH6068SAL: Glass                              | 40  |      |     | 0.330 | 13 |
| Door 2: Solid                                  | 20  |      |     | 0.330 | 7  |
| Floor 1: All-Wood Joist/Truss:Over Outside Air | 572 | 30.0 | 0.0 |       | 19 |

COMPLIANCE STATEMENT: The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2000 IECC requirements in REScheck Version 3.6 Release 2 (formerly MECcheck) and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

Builder/Designer



Date 1-18-06

# DANIEL FORTUNATO · ARCHITECT, P. A.

---

98 FAIRFIELD ROAD, PRINCETON, NEW JERSEY 08540 · 609-683-0180 · FAX 609-683-0690

January 27, 2006

Brick Building Department  
401 Chambersbridge Road  
Brick, New Jersey 08723

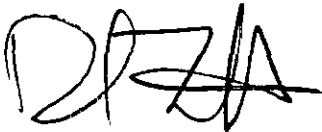
Re: Abel Residence  
1657 West Princeton Avenue

The following is in response to comments made to the General Contractor, Ed Serafin, by your Department:

1. Roof / Ridge Height of Addition: 14'-0" +/-
2. Addition Eave Height: 10'-0" +/-
3. Addition Mean Height: 12'-0" +/-

Please let this letter serve as an amendment to the permit application. If you have any further questions, please do not hesitate to contact my office.

Sincerely,

A handwritten signature in black ink, appearing to be 'DFA', written over a horizontal line.

**Daniel Fortunato, AIA**

cc: Mr. & Mrs. G. Abel, Homeowners  
Mr. Ed Serafin, General Contractor

# DANIEL FORTUNATO • ARCHITECT, P. A.

98 FAIRFIELD ROAD, PRINCETON, NEW JERSEY 08540 • 609-683-0180 • FAX 609-683-0690

January 18, 2006

Brick Building Department  
401 Chambersbridge Road  
Brick, New Jersey 08723

*Case + clear  
height on  
plans - PG. A2*

Re: Abel Residence  
1657 West Princeton Avenue

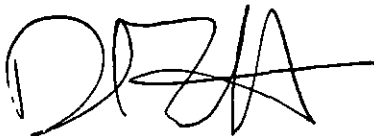
The following is in response to comments made to the General Contractor, Ed Serafin, by your Department along with revisions reflected on enclosed Drawings A-1 & A-2 dated 1/18/06:

1. Roof / Ridge Height of Addition: 14'-0" +/-
2. The room to the east of the Existing Kitchen is the "Existing T.V. Room".
3. Attached please find the existing survey with all proposed construction indicated.
4. Attached please find Energy Code Compliant Certification.
5. The windows in the Sitting Room have been changed from a triple set to a single double-hung window #WDH3046 w/ CTN30 round top (this will match the Bedroom window assembly).
6. Note 6.2 on Drawing A-2 shall be revised to add R-30 batt insulation between the floor joists; and delete note 7.4 which was adding rigid insulation throughout the crawl space. Any piping and ductwork run within crawl space shall be insulated. Crawl space vents shall be installed where indicated on Foundation Plan.

Alternates #1 and #2 will not be part of this permit application. Primarily this is any revisions to the interior of the existing house (Kitchen, Laundry Room and Lavatory alterations) and the exterior ramp. The Owner has decided not to do this work at this time.

Please let this letter serve as an amendment to the permit application. If you have any further questions, please do not hesitate to contact my office.

Sincerely,



Daniel Fortunato, AIA

cc: Mr. & Mrs. G. Abel, Homeowners (w/o attachments)  
Mr. Ed Serafin, General Contractor (w/o attachments)

*YJS  
2/14/06*

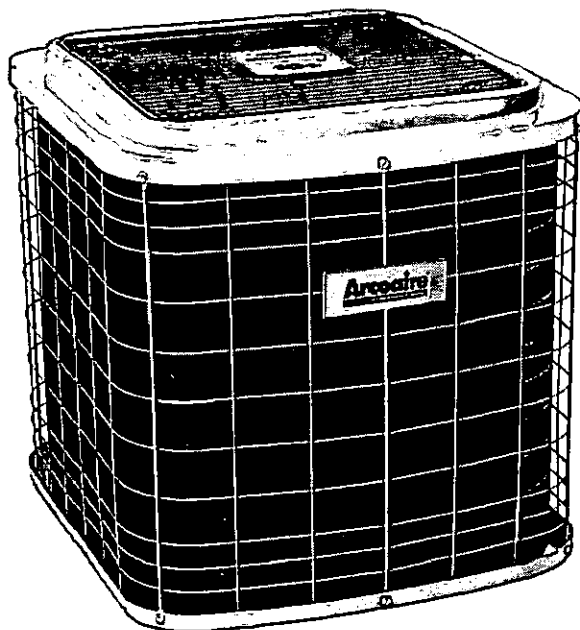
1657 W. Princeton Ave.

**High  
Efficiency**

**10+**

**Arcoaire®**  
**Air Conditioning & Heating**

## 10+ SEER - AIR CONDITIONER



Representative photo only, some models may vary in appearance.

## 1 1/2 THRU 5 TONS SPLIT SYSTEM FEATURES

- High efficiency scroll compressors on all models
- Copper tube / aluminum fin coil
- Prepainted condenser fins
- Top air discharge for quieter operation
- G-90 Galvanized steel cabinet with integral base rails
- Triple step paint process
- Coated inlet and discharge grilles ruggedly built for enhanced coil protection
- Numerous service friendly features
- Service valves on all models with 3-1/2" stubs
- External refrigerant connections
- Easy side access sloped control panel
- Fan motor in-line disconnect plug
- Factory charged with R-22, condenser plus 25 Ft. lines
- Can be installed as close as 6" to home
- 5 Year parts, 10 Year compressor limited warranties



Rated in accordance with ARI Standard 240. Certification applies only when used with proper components as listed with ARI.



**International Comfort Products Corporation, LLC**  
651 Hell-Quaker Ave.  
Lewisburg, Tennessee 37091

RESIDENTIAL AND COMMERCIAL SYSTEMS • SPLIT SYSTEMS • PACKAGED AIR CONDITIONERS •  
COMBINATION GAS / ELECTRIC UNITS • HEAT PUMPS • AIR HANDLERS • MANUFACTURED HOME AIR  
CONDITIONERS • GAS, OIL AND ELECTRIC FURNACES

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

421 31 3202 00 Dec. 2003

## Base Specifications

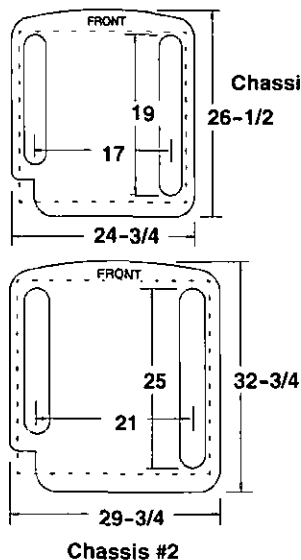
|                                           | HAC018AKC   | HAC024AKC   | HAC030AKC   | HAC036AKC   | HAC042AKC   | HAC048AKC   | HAC060AKC   |
|-------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Model Number                              | HAC018GKC   | HAC024GKC   | HAC030GKC   | HAC036GKC   | HAC042GKC   | HAC048GKC   | HAC060GKC   |
| Max. Cooling Capacity (Bluh)              | 17800       | 23600       | 28600       | 35200       | 41000       | 47000       | 56500       |
| SEER Label                                | 10          | 10          | 10          | 10          | 10          | 10          | 10          |
| Sound Rating Decibels                     | 71          | 72          | 75          | 75          | 75          | 77          | 77          |
| Fan HP / Type / Speeds                    | 1/8-PSC-1   | 1/5-PSC-1   | 1/5-PSC-1   | 1/4-PSC-1   | 1/4-PSC-1   | 1/3-PSC-1   | 1/3-PSC-1   |
| Fan RPM / Max. CFM                        | 1075 / 1400 | 1075 / 1400 | 1075 / 2000 | 1075 / 2000 | 1075 / 2000 | 1075 / 3000 | 1075 / 3000 |
| Coil Face Area (Sq Ft)                    | 10.7        | 10.7        | 11.6        | 11.6        | 12.5        | 16.7        | 16.7        |
| Coil Rows / Fins Per Inch                 | 1 / 24      | 1 / 24      | 1 / 24      | 1 / 24      | 1 / 24      | 1 / 24      | 1 / 24      |
| Line Connection Suction I.D. Size (In.)   | 3/4         | 3/4         | 3/4         | 3/4         | 7/8         | 7/8         | 1-1/8       |
| Line Connection Liquid I.D. Size (In.)    | 3/8         | 3/8         | 3/8         | 3/8         | 3/8         | 3/8         | 3/8         |
| Supplied Optional Evaporator Orifice Size | .051        | .057        | .065        | .073        | .078        | .079        | .090        |
| Factory Charge - R22 (Oz)                 | 64          | 67          | 73          | 96          | 98          | 122         | 126         |
| Compressor                                | Scroll      | Scroll      | Scroll      | Scroll      | Scroll      | Scroll      | Scroll      |
| Weight Lbs. (Ship)                        | 130         | 132         | 134         | 139         | 170         | 197         | 207         |

## Electrical Specifications - 208 - 230 / 1 / 60, Voltage Range 197V - 253V

|                                       |            |            |            |            |            |            |            |
|---------------------------------------|------------|------------|------------|------------|------------|------------|------------|
| Minimum Circuit Ampacity              | 12.7       | 16.1       | 19.7       | 21.4       | 24.6       | 29.1       | 35.7       |
| Wire Size/Max. Length (AWG Cu) Ft.    | 14 / 58    | 14 / 47    | 14 / 37    | 12 / 57    | 12 / 48    | 10 / 66    | 8 / 82     |
| Time Delay Fuse (Amps)                | 15         | 20         | 25         | 30         | 30         | 40         | 50         |
| Max. Fuse or HACR Breaker Size (Amps) | 20         | 25         | 30         | 30         | 40         | 45         | 50         |
| Compressor Full Run / Lock Rotor Amps | 9.6 / 47   | 11.9 / 59  | 14.7 / 84  | 16.0 / 100 | 18.6 / 127 | 21.8 / 131 | 27.1 / 144 |
| Fan Full Load / Lock Rotor Amps.      | .66 / 1.55 | 1.3 / 2.36 | 1.3 / 2.36 | 1.4 / 3.00 | 1.4 / 3.00 | 1.9 / 3.7  | 1.9 / 3.7  |

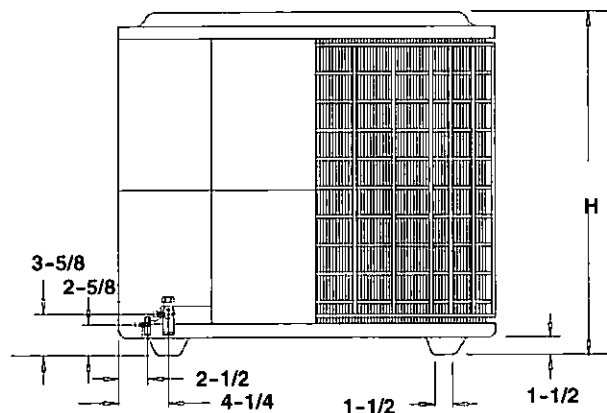
| Dimensions |         |            |
|------------|---------|------------|
| Model      | Chassis | Height (H) |
| 018        | 1       | 26-1/2     |
| 024        | 1       | 26-1/2     |
| 030        | 1       | 28-1/2     |
| 036        | 1       | 28-1/2     |
| 042        | 1       | 30-1/2     |
| 048        | 2       | 30-1/2     |
| 060        | 2       | 30-1/2     |

ALL DIMENSIONS IN INCHES



Minimum Mounting Pad Sizes with pad starting at 9" from structure for minimum clearance of 6".

Chassis #1 20" W X 20" D  
Chassis #2 24" W X 26" D



| <b>Accessory</b> | <b>Description</b>                                                                 | <b>Used On</b> |
|------------------|------------------------------------------------------------------------------------|----------------|
| AMF153TKB        | Expansion Valve Kit                                                                | 1 1/2 - 3 Ton  |
| AMF355TKB        | Expansion Valve Kit                                                                | 3 1/2 - 5 Ton  |
| AMA001TDA        | Indoor Blower Time Delay                                                           | All Models     |
| AMB001CMA        | Mesh Grille Guard (Pkg of 6) Trim to Fit                                           | All Models     |
| 24370800 *       | Compressor Anti-short cycle 24 Volt 3 Min. Time Delay                              | All Models     |
| 1070822*         | Compressor Anti-short cycle 24 Volt 5 Min. Time Delay                              | All Models     |
| 1148671 *        | Low Ambient Kit (Fan Cycling Switch)                                               | All Models     |
| 1053477 *        | Compressor Crankcase Heater Solid State "Stick On" Type                            | All Models     |
| 1148113 *        | Compressor Crankcase Heater "Wrap-around" Type (6.5 to 8.5 inch Dia Compressors)** | **All Models   |
| 1061482 *        | Compressor Crankcase Heater "Wrap-around" Type (4.2 to 6.7 inch Dia Compressors)** | **All Models   |
| 1060833*         | Compressor Sound Jacket (Small Scroll)                                             | 1 1/2 - 3 Ton  |
| 1060834 *        | Compressor Sound Jacket (Large Scroll)                                             | 3 1/2 - 5 Ton  |

\* Order from Service Parts

# PERFORMANCE DATA COOLING

| Model Number | Air Handler                | Rating A Cooling Capacity(MBtuh) | SEER Rating (Btuh/watt) | Rating A EER Rating (Btuh/watt) | Outdoor Coil Air Quantity (SCFM) | Indoor Coil Air Quantity (SCFM) |
|--------------|----------------------------|----------------------------------|-------------------------|---------------------------------|----------------------------------|---------------------------------|
| *AC018AKC*   | EP*18B****+TD1             | 17800                            | 10                      | 9.6                             | 1750                             | 600                             |
| *AC018AKC*   | EMH24F****+TD1             | 18000                            | 10.5                    | 10                              | 1750                             | 600                             |
| *AC018AKC*   | EMH30F****+TD1             | 18500                            | 10.5                    | 10.1                            | 1750                             | 600                             |
| *AC018AKC*   | EP*24B****+TD1             | 18500                            | 10.3                    | 10                              | 1750                             | 600                             |
| *AC018AKC*   | EP*30B****+TD1             | 18500                            | 10.5                    | 10.1                            | 1750                             | 600                             |
| *AC018AKC*   | EP*30B****+NTV6050+TXV     | 19000                            | 11.5                    | 11                              | 1750                             | 685                             |
| *AC018AKC*   | EP*30B****+NTV6075+TXV     | 19000                            | 11.5                    | 11.15                           | 1750                             | 625                             |
| *AC018AKC*   | EP*30B****+9MPV050+TXV     | 19000                            | 11                      | 10.7                            | 1750                             | 695                             |
| *AC018AKC*   | EP*30B****+9MPV075+TXV     | 19000                            | 11                      | 10.8                            | 1750                             | 710                             |
| *AC018AKC*   | EP*30F****+TD1             | 18500                            | 10.5                    | 10.1                            | 1750                             | 600                             |
| *AC018AKC*   | EPP024****+TD1             | 17200                            | 10                      | 9.45                            | 1750                             | 600                             |
| *AC018AKC*   | EX*24B****+TD1             | 19000                            | 11                      | 10.55                           | 1750                             | 600                             |
| *AC018AKC*   | EX*24B****+MV08B15****     | 19500                            | 12                      | 11.7                            | 1750                             | 665                             |
| *AC018AKC*   | EX*24F****+TD1             | 19000                            | 11                      | 10.55                           | 1750                             | 600                             |
| *AC018AKC*   | EX*24F****+8MPV050         | 19500                            | 12                      | 11.2                            | 1750                             | 730                             |
| *AC018AKC*   | EX*24F****+9MPV050         | 19500                            | 12                      | 11.25                           | 1750                             | 680                             |
| *AC018AKC*   | EX*24F****+9MPV075         | 19500                            | 12                      | 11.4                            | 1750                             | 695                             |
| *AC018AKC*   | EBP18****                  | 18500                            | 10.5                    | 10.1                            | 1750                             | 600                             |
| *AC018AKC*   | EBP24****                  | 19000                            | 11                      | 10.4                            | 1750                             | 600                             |
| *AC018AKC*   | FWM18****                  | 18000                            | 11                      | 10.35                           | 1750                             | 600                             |
| *AC018AKC*   | FWM24****                  | 18500                            | 11                      | 10.3                            | 1750                             | 600                             |
| *AC018AKC*   | EBV24****                  | 19000                            | 12                      | 11.85                           | 1750                             | 600                             |
| *AC018AKC*   | EBX18****                  | 19000                            | 11                      | 10.65                           | 1750                             | 600                             |
| *AC018AKC*   | EBX24****                  | 19500                            | 11                      | 10.75                           | 1750                             | 600                             |
| *AC018AKC*   | EP*18B****+TD1+TXV         | 17500                            | 10.5                    | 9.6                             | 1750                             | 600                             |
| *AC018AKC*   | EP*24B****+TD1+TXV         | 18500                            | 10.5                    | 10.05                           | 1750                             | 600                             |
| *AC018AKC*   | EP*30B****+TD1+TXV         | 18500                            | 11                      | 10.25                           | 1750                             | 600                             |
| *AC018AKC*   | EP*30F****+TD1+TXV         | 18500                            | 11                      | 10.25                           | 1750                             | 600                             |
| *AC018AKC*   | EPP024****+TD1+TXV         | 17500                            | 10                      | 9.45                            | 1750                             | 600                             |
| *AC024AKC*   | EP*24B****+TD1             | 23600                            | 10                      | 9.2                             | 1750                             | 800                             |
| *AC024AKC*   | EMH24F****+TD1             | 23600                            | 10                      | 9.2                             | 1750                             | 800                             |
| *AC024AKC*   | EMH30F****+TD1             | 24000                            | 10                      | 9.35                            | 1750                             | 800                             |
| *AC024AKC*   | EP*30B****+TD1             | 24000                            | 10                      | 9.35                            | 1750                             | 800                             |
| *AC024AKC*   | EP*30F****+TD1             | 24000                            | 10                      | 9.35                            | 1750                             | 800                             |
| *AC024AKC*   | EP*30F****+8MPV050+TXV     | 24400                            | 10.5                    | 9.9                             | 1750                             | 810                             |
| *AC024AKC*   | EP*30F****+8MPV075+TXV     | 24800                            | 11                      | 9.9                             | 1750                             | 920                             |
| *AC024AKC*   | EP*30F****+8MPV100+TXV     | 25000                            | 11                      | 10.15                           | 1750                             | 900                             |
| *AC024AKC*   | EP*30F****+9MPV050+TXV     | 24400                            | 10.5                    | 9.8                             | 1750                             | 820                             |
| *AC024AKC*   | EP*30F****+9MPV075+TXV     | 24400                            | 11                      | 10                              | 1750                             | 815                             |
| *AC024AKC*   | EP*30F****+9MPV100+TXV     | 24800                            | 11                      | 10.15                           | 1750                             | 900                             |
| *AC024AKC*   | EP*30F****+MV08B15****+TXV | 24600                            | 11                      | 10.25                           | 1750                             | 840                             |
| *AC024AKC*   | EP*30F****+MV12F19****+TXV | 24400                            | 11                      | 10.3                            | 1750                             | 790                             |
| *AC024AKC*   | EP*36J****+8MPV075+TXV     | 25800                            | 11.3                    | 10.45                           | 1750                             | 950                             |
| *AC024AKC*   | EP*36J****+8MPV100+TXV     | 26000                            | 11.3                    | 10.55                           | 1750                             | 975                             |
| *AC024AKC*   | EP*36J****+8MPV125+TXV     | 26000                            | 11.3                    | 10.5                            | 1750                             | 975                             |
| *AC024AKC*   | EP*36J****+9MPV050+TXV     | 25200                            | 11                      | 10.15                           | 1750                             | 830                             |
| *AC024AKC*   | EP*36J****+9MPV075+TXV     | 25400                            | 11                      | 10.35                           | 1750                             | 830                             |
| *AC024AKC*   | EP*36J****+9MPV100+TXV     | 25800                            | 11.3                    | 10.5                            | 1750                             | 920                             |
| *AC024AKC*   | EP*36J****+MV12F19****+TXV | 25400                            | 11.3                    | 10.65                           | 1750                             | 800                             |
| *AC024AKC*   | EP*36J****+MV16J22****+TXV | 25800                            | 11.3                    | 10.75                           | 1750                             | 885                             |
| *AC024AKC*   | EPP030****+TD1             | 23200                            | 10                      | 9.1                             | 1750                             | 800                             |
| *AC024AKC*   | EPP036****+TD1             | 23600                            | 10                      | 9.25                            | 1750                             | 800                             |
| *AC024AKC*   | EX*24B****+TD1             | 25200                            | 10.5                    | 9.75                            | 1750                             | 800                             |
| *AC024AKC*   | EX*24B****+MV08B15****     | 25600                            | 11.5                    | 10.6                            | 1750                             | 795                             |
| *AC024AKC*   | EX*24F****+TD1             | 25200                            | 10.5                    | 9.75                            | 1750                             | 800                             |
| *AC024AKC*   | EX*24F****+NTV6050         | 25600                            | 11.2                    | 10.45                           | 1750                             | 820                             |
| *AC024AKC*   | EX*24F****+NTV6075         | 25600                            | 11.3                    | 10.5                            | 1750                             | 800                             |
| *AC024AKC*   | EX*24F****+8MPV050         | 25600                            | 11                      | 10.15                           | 1750                             | 815                             |
| *AC024AKC*   | EX*24F****+8MPV075         | 25800                            | 11.2                    | 10.4                            | 1750                             | 875                             |

# PERFORMANCE DATA COOLING

| Model Number | Air Handler                | Rating A Cooling Capacity(MBtuh) | SEER Rating (Btuh/watt) | Rating A EER Rating (Btuh/watt) | Outdoor Coil Air Quantity (SCFM) | Indoor Coil Air Quantity (SCFM) |
|--------------|----------------------------|----------------------------------|-------------------------|---------------------------------|----------------------------------|---------------------------------|
| *AC024AKC*   | EX*24F****+8MPV100         | 26000                            | 11.3                    | 10.55                           | 1750                             | 885                             |
| *AC024AKC*   | EX*24F****+9MPV050         | 25600                            | 11                      | 10                              | 1750                             | 855                             |
| *AC024AKC*   | EX*24F****+9MPV075         | 25800                            | 11                      | 10.2                            | 1750                             | 860                             |
| *AC024AKC*   | EX*24F****+9MPV100         | 25800                            | 11.2                    | 10.45                           | 1750                             | 835                             |
| *AC024AKC*   | EX*24F****+MV12F19****     | 25800                            | 11.3                    | 10.65                           | 1750                             | 810                             |
| *AC024AKC*   | EX*24F****+MV16J22****     | 25800                            | 11.5                    | 10.7                            | 1750                             | 810                             |
| *AC024AKC*   | EX*36B****+TD1             | 26000                            | 11                      | 10                              | 1750                             | 800                             |
| *AC024AKC*   | EX*36F****+TD1             | 26000                            | 11                      | 10                              | 1750                             | 800                             |
| *AC024AKC*   | EX*36F****+8MPV100         | 27000                            | 11.5                    | 10.9                            | 1750                             | 955                             |
| *AC024AKC*   | EX*36F****+8MPV125         | 27000                            | 11.5                    | 10.85                           | 1750                             | 960                             |
| *AC024AKC*   | EX*36F****+9MPV100         | 26800                            | 11.5                    | 10.75                           | 1750                             | 950                             |
| *AC024AKC*   | EX*36F****+MV12F19****     | 26800                            | 12                      | 10.95                           | 1750                             | 920                             |
| *AC024AKC*   | EX*36J****+TD1             | 26000                            | 11                      | 10                              | 1750                             | 800                             |
| *AC024AKC*   | EBP24****                  | 25000                            | 10.3                    | 9.65                            | 1750                             | 800                             |
| *AC024AKC*   | EBP30****                  | 25400                            | 10.3                    | 9.8                             | 1750                             | 800                             |
| *AC024AKC*   | FWM24****                  | 24800                            | 10                      | 9.5                             | 1750                             | 800                             |
| *AC024AKC*   | FWM30****                  | 25400                            | 10.3                    | 9.65                            | 1750                             | 800                             |
| *AC024AKC*   | EBV24****                  | 26200                            | 11.3                    | 10.65                           | 1750                             | 800                             |
| *AC024AKC*   | EBX24****                  | 25400                            | 10.5                    | 9.9                             | 1750                             | 800                             |
| *AC024AKC*   | EMH24F****+TD1+TXV         | 23600                            | 10                      | 9.2                             | 1750                             | 800                             |
| *AC024AKC*   | EMH30F****+TD1+TXV         | 24000                            | 10                      | 9.35                            | 1750                             | 800                             |
| *AC024AKC*   | EP*24B****+TD1+TXV         | 23600                            | 10                      | 9.2                             | 1750                             | 800                             |
| *AC024AKC*   | EP*30B****+TD1+TXV         | 24000                            | 10                      | 9.35                            | 1750                             | 800                             |
| *AC024AKC*   | EP*30F****+TD1+TXV         | 24000                            | 10                      | 9.35                            | 1750                             | 800                             |
| *AC024AKC*   | EP*30F****+NTV6050+TXV     | 24600                            | 11                      | 10.1                            | 1750                             | 860                             |
| *AC024AKC*   | EP*30F****+NTV6075+TXV     | 24600                            | 11                      | 10.2                            | 1750                             | 850                             |
| *AC024AKC*   | EPP030****+TD1+TXV         | 23200                            | 10                      | 9.05                            | 1750                             | 800                             |
| *AC024AKC*   | EPP036****+TD1+TXV         | 23600                            | 10                      | 9.25                            | 1750                             | 800                             |
| *AC030AKC*   | EP*30B****+TD1             | 28600                            | 10                      | 8.8                             | 2000                             | 1000                            |
| *AC030AKC*   | EMH30F****+TD1             | 28400                            | 10                      | 8.8                             | 2000                             | 1000                            |
| *AC030AKC*   | EMH36F****+TD1             | 29600                            | 10                      | 9                               | 2000                             | 1000                            |
| *AC030AKC*   | EP*30F****+TD1             | 28400                            | 10                      | 8.8                             | 2000                             | 1000                            |
| *AC030AKC*   | EP*30F****+NTV6050+TXV     | 28600                            | 10.5                    | 9.25                            | 2000                             | 970                             |
| *AC030AKC*   | EP*30F****+NTV6075+TXV     | 28800                            | 10.5                    | 9.35                            | 2000                             | 995                             |
| *AC030AKC*   | EP*30F****+8MPV050+TXV     | 28600                            | 10                      | 8.85                            | 2000                             | 1035                            |
| *AC030AKC*   | EP*30F****+8MPV075+TXV     | 29000                            | 10.5                    | 9.25                            | 2000                             | 1060                            |
| *AC030AKC*   | EP*30F****+9MPV050+TXV     | 28400                            | 10                      | 8.75                            | 2000                             | 1025                            |
| *AC030AKC*   | EP*30F****+9MPV075+TXV     | 28800                            | 10                      | 9.05                            | 2000                             | 1050                            |
| *AC030AKC*   | EP*30F****+MV08B15****+TXV | 28800                            | 10.5                    | 9.4                             | 2000                             | 990                             |
| *AC030AKC*   | EP*30F****+MV12F19****+TXV | 29000                            | 10.5                    | 9.5                             | 2000                             | 1025                            |
| *AC030AKC*   | EP*36B****+TD1             | 29600                            | 10                      | 9                               | 2000                             | 1000                            |
| *AC030AKC*   | EP*36F****+TD1             | 29600                            | 10                      | 9                               | 2000                             | 1000                            |
| *AC030AKC*   | EP*36J****+TD1             | 29600                            | 10                      | 9                               | 2000                             | 1000                            |
| *AC030AKC*   | EP*36J****+NTV6075+TXV     | 29800                            | 10.5                    | 9.65                            | 2000                             | 1005                            |
| *AC030AKC*   | EP*36J****+NTV6100+TXV     | 30200                            | 11                      | 9.8                             | 2000                             | 1050                            |
| *AC030AKC*   | EP*36J****+NTV6125+TXV     | 30000                            | 11                      | 9.85                            | 2000                             | 1020                            |
| *AC030AKC*   | EP*36J****+8MPV075+TXV     | 30000                            | 10.5                    | 9.55                            | 2000                             | 1075                            |
| *AC030AKC*   | EP*36J****+8MPV100+TXV     | 30200                            | 11                      | 9.7                             | 2000                             | 1085                            |
| *AC030AKC*   | EP*36J****+8MPV125+TXV     | 30200                            | 11                      | 9.65                            | 2000                             | 1090                            |
| *AC030AKC*   | EP*36J****+9MPV050+TXV     | 29600                            | 10                      | 9.05                            | 2000                             | 1035                            |
| *AC030AKC*   | EP*36J****+9MPV075+TXV     | 29800                            | 10.5                    | 9.35                            | 2000                             | 1065                            |
| *AC030AKC*   | EP*36J****+9MPV100+TXV     | 30200                            | 10.5                    | 9.6                             | 2000                             | 1085                            |
| *AC030AKC*   | EP*36J****+9MPV125+TXV     | 30000                            | 10.5                    | 9.55                            | 2000                             | 1070                            |
| *AC030AKC*   | EP*36J****+MV12F19****+TXV | 30200                            | 11                      | 9.8                             | 2000                             | 1040                            |
| *AC030AKC*   | EP*36J****+MV16J22****+TXV | 30000                            | 11                      | 9.9                             | 2000                             | 1005                            |
| *AC030AKC*   | EX*36B****+TD1             | 30600                            | 10.5                    | 9.4                             | 2000                             | 1000                            |
| *AC030AKC*   | EX*36F****+TD1             | 30600                            | 10.5                    | 9.4                             | 2000                             | 1000                            |
| *AC030AKC*   | EX*36F****+NTV6050         | 30600                            | 11                      | 9.85                            | 2000                             | 965                             |
| *AC030AKC*   | EX*36F****+NTV6075         | 30600                            | 11                      | 9.95                            | 2000                             | 985                             |
| *AC030AKC*   | EX*36F****+8MPV050         | 31000                            | 10.5                    | 9.45                            | 2000                             | 1030                            |

# PERFORMANCE DATA COOLING

| Model Number | Air Handler                | Rating A Cooling Capacity(MBtuh) | SEER Rating (Btuh/watt) | Rating A EER Rating (Btuh/watt) | Outdoor Coil Air Quantity (SCFM) | Indoor Coil Air Quantity (SCFM) |
|--------------|----------------------------|----------------------------------|-------------------------|---------------------------------|----------------------------------|---------------------------------|
| *AC030AKC*   | EX*36F****+9MPV050         | 31000                            | 10.3                    | 9.35                            | 2000                             | 1020                            |
| *AC030AKC*   | EX*36F****+9MPV075         | 31000                            | 10.5                    | 9.65                            | 2000                             | 1040                            |
| *AC030AKC*   | EX*36F****+MV12F19****     | 31000                            | 11                      | 10.1                            | 2000                             | 1015                            |
| *AC030AKC*   | EX*36J****+TD1             | 31000                            | 10.5                    | 9.4                             | 2000                             | 1000                            |
| *AC030AKC*   | EX*36J****+NTV6100         | 31000                            | 11                      | 10.2                            | 2000                             | 1055                            |
| *AC030AKC*   | EX*36J****+NTV6125         | 31000                            | 11                      | 10.2                            | 2000                             | 1025                            |
| *AC030AKC*   | EX*36J****+8MPV100         | 31000                            | 11                      | 10.1                            | 2000                             | 1095                            |
| *AC030AKC*   | EX*36J****+8MPV125         | 31000                            | 11                      | 10.05                           | 2000                             | 1100                            |
| *AC030AKC*   | EX*36J****+9MPV100         | 31000                            | 11                      | 9.95                            | 2000                             | 1095                            |
| *AC030AKC*   | EX*36J****+9MPV125         | 31000                            | 11                      | 9.9                             | 2000                             | 1075                            |
| *AC030AKC*   | EBP30****                  | 30200                            | 10                      | 9.2                             | 2000                             | 1000                            |
| *AC030AKC*   | EBP36****                  | 30600                            | 10                      | 9.05                            | 2000                             | 1000                            |
| *AC030AKC*   | FWM30****                  | 30400                            | 10                      | 9.1                             | 2000                             | 1000                            |
| *AC030AKC*   | EBV36****                  | 31000                            | 11                      | 9.95                            | 2000                             | 1000                            |
| *AC030AKC*   | EBX36****                  | 30800                            | 10.3                    | 9.35                            | 2000                             | 1000                            |
| *AC030AKC*   | EMH30F****+TD1+TXV         | 28400                            | 10                      | 8.8                             | 2000                             | 1000                            |
| *AC030AKC*   | EMH36F****+TD1+TXV         | 29400                            | 10                      | 9.05                            | 2000                             | 1000                            |
| *AC030AKC*   | EP*30B****+TD1+TXV         | 28400                            | 10                      | 8.8                             | 2000                             | 1000                            |
| *AC030AKC*   | EP*30F****+TD1+TXV         | 28400                            | 10                      | 8.8                             | 2000                             | 1000                            |
| *AC030AKC*   | EP*36B****+TD1+TXV         | 29400                            | 10                      | 9.05                            | 2000                             | 1000                            |
| *AC030AKC*   | EP*36F****+TD1+TXV         | 29400                            | 10                      | 9.05                            | 2000                             | 1000                            |
| *AC030AKC*   | EP*36J****+TD1+TXV         | 29400                            | 10                      | 9.05                            | 2000                             | 1000                            |
| *AC036AKC*   | EP*36F****+TD1             | 35200                            | 10                      | 8.95                            | 2000                             | 1200                            |
| *AC036AKC*   | EP*36B****+TD1             | 34200                            | 10                      | 9                               | 2000                             | 1000                            |
| *AC036AKC*   | EMH36F****+TD1             | 35000                            | 10                      | 8.95                            | 2000                             | 1200                            |
| *AC036AKC*   | EMH42F****+TD1             | 35600                            | 10.2                    | 9.2                             | 2000                             | 1100                            |
| *AC036AKC*   | EP*36J****+TD1             | 35000                            | 10                      | 8.95                            | 2000                             | 1200                            |
| *AC036AKC*   | EP*36J****+NTV6100+TXV     | 35600                            | 10.5                    | 9.6                             | 2000                             | 1210                            |
| *AC036AKC*   | EP*36J****+NTV6125+TXV     | 35200                            | 10.5                    | 9.6                             | 2000                             | 1155                            |
| *AC036AKC*   | EP*36J****+8MPV100+TXV     | 35600                            | 10.5                    | 9.45                            | 2000                             | 1250                            |
| *AC036AKC*   | EP*36J****+8MPV125+TXV     | 35400                            | 10.5                    | 9.4                             | 2000                             | 1240                            |
| *AC036AKC*   | EP*36J****+9MPV100+TXV     | 35400                            | 10.5                    | 9.3                             | 2000                             | 1230                            |
| *AC036AKC*   | EP*36J****+9MPV125+TXV     | 35400                            | 10.2                    | 9.25                            | 2000                             | 1230                            |
| *AC036AKC*   | EP*36J****+MV12F19****+TXV | 35400                            | 10.5                    | 9.45                            | 2000                             | 1240                            |
| *AC036AKC*   | EP*36J****+MV16J22****+TXV | 35600                            | 10.5                    | 9.65                            | 2000                             | 1215                            |
| *AC036AKC*   | EP*42F****+TD1             | 35600                            | 10                      | 9.2                             | 2000                             | 1100                            |
| *AC036AKC*   | EP*42J****+TD1             | 36000                            | 10                      | 9.2                             | 2000                             | 1200                            |
| *AC036AKC*   | EP*42J****+NTV6100+TXV     | 35400                            | 10.5                    | 9.55                            | 2000                             | 990                             |
| *AC036AKC*   | EP*42J****+NTV6125+TXV     | 35400                            | 10.5                    | 9.55                            | 2000                             | 940                             |
| *AC036AKC*   | EP*42J****+8MPV100+TXV     | 36000                            | 10.5                    | 9.5                             | 2000                             | 1055                            |
| *AC036AKC*   | EP*42J****+8MPV125+TXV     | 35800                            | 10.3                    | 9.4                             | 2000                             | 1035                            |
| *AC036AKC*   | EP*42J****+9MPV100+TXV     | 35600                            | 10.3                    | 9.35                            | 2000                             | 1045                            |
| *AC036AKC*   | EP*42J****+9MPV125+TXV     | 35600                            | 10.2                    | 9.25                            | 2000                             | 1040                            |
| *AC036AKC*   | EP*42J****+MV12F19****+TXV | 35600                            | 10.3                    | 9.45                            | 2000                             | 1065                            |
| *AC036AKC*   | EP*42J****+MV16J22****+TXV | 35600                            | 10.5                    | 9.65                            | 2000                             | 1000                            |
| *AC036AKC*   | EP*48N****+NTV6125+TXV     | 36000                            | 11                      | 10.1                            | 2000                             | 1185                            |
| *AC036AKC*   | EP*48N****+8MPV125+TXV     | 36000                            | 11                      | 9.9                             | 2000                             | 1270                            |
| *AC036AKC*   | EP*48N****+9MPV125+TXV     | 36000                            | 10.5                    | 9.75                            | 2000                             | 1255                            |
| *AC036AKC*   | EX*36B****+TD1             | 36000                            | 10.3                    | 9.4                             | 2000                             | 1100                            |
| *AC036AKC*   | EX*36F****+TD1             | 36000                            | 10.3                    | 9.4                             | 2000                             | 1100                            |
| *AC036AKC*   | EX*36F****+NTV6050         | 36000                            | 10.5                    | 9.6                             | 2000                             | 1125                            |
| *AC036AKC*   | EX*36F****+NTV6100         | 36000                            | 11                      | 10                              | 2000                             | 1170                            |
| *AC036AKC*   | EX*36F****+NTV6125         | 36000                            | 11                      | 10                              | 2000                             | 1115                            |
| *AC036AKC*   | EX*36F****+8MPV050         | 36000                            | 10                      | 9                               | 2000                             | 1175                            |
| *AC036AKC*   | EX*36F****+8MPV100         | 36000                            | 11                      | 9.85                            | 2000                             | 1210                            |
| *AC036AKC*   | EX*36F****+8MPV125         | 36000                            | 11                      | 9.8                             | 2000                             | 1200                            |
| *AC036AKC*   | EX*36F****+9MPV050         | 36000                            | 10                      | 8.95                            | 2000                             | 1165                            |
| *AC036AKC*   | EX*36F****+9MPV100         | 36000                            | 10.5                    | 9.7                             | 2000                             | 1195                            |
| *AC036AKC*   | EX*36F****+MV12F19****     | 36000                            | 11                      | 9.85                            | 2000                             | 1210                            |

# PERFORMANCE DATA COOLING

| Model Number | Air Handler                | Rating A Cooling Capacity(MBtuh) | SEER Rating (Btuh/watt) | Rating A EER Rating (Btuh/watt) | Outdoor Coil Air Quantity (SCFM) | Indoor Coil Air Quantity (SCFM) |
|--------------|----------------------------|----------------------------------|-------------------------|---------------------------------|----------------------------------|---------------------------------|
| *AC036AKC*   | EX*36F****+MV16J22****     | 36000                            | 11                      | 10.05                           | 2000                             | 1175                            |
| *AC036AKC*   | EX*36J****+TD1             | 36000                            | 10.3                    | 9.4                             | 2000                             | 1200                            |
| *AC036AKC*   | EX*48N****+NTV6125         | 37000                            | 11                      | 10.25                           | 2000                             | 1190                            |
| *AC036AKC*   | EX*48N****+8MPV125         | 37000                            | 11                      | 10                              | 2000                             | 1280                            |
| *AC036AKC*   | EX*48N****+9MPV125         | 37000                            | 11                      | 9.85                            | 2000                             | 1260                            |
| *AC036AKC*   | EBP36****                  | 36000                            | 10                      | 9.05                            | 2000                             | 1200                            |
| *AC036AKC*   | EBP42****                  | 37000                            | 10                      | 9.2                             | 2000                             | 1200                            |
| *AC036AKC*   | EBV36****                  | 37000                            | 11                      | 9.85                            | 2000                             | 1200                            |
| *AC036AKC*   | EBX36****                  | 37000                            | 10.5                    | 9.3                             | 2000                             | 1200                            |
| *AC036AKC*   | EMH36F****+TD1+TXV         | 35000                            | 10                      | 8.95                            | 2000                             | 1200                            |
| *AC036AKC*   | EMH42F****+TD1+TXV         | 36000                            | 10.25                   | 9.25                            | 2000                             | 1100                            |
| *AC036AKC*   | EP*36B****+TD1+TXV         | 34000                            | 10                      | 8.95                            | 2000                             | 1000                            |
| *AC036AKC*   | EP*36F****+TD1+TXV         | 35000                            | 10                      | 8.95                            | 2000                             | 1200                            |
| *AC036AKC*   | EP*36J****+TD1+TXV         | 35000                            | 10                      | 8.95                            | 2000                             | 1200                            |
| *AC036AKC*   | EP*42F****+TD1+TXV         | 36000                            | 10.25                   | 9.25                            | 2000                             | 1100                            |
| *AC036AKC*   | EP*42J****+TD1+TXV         | 36000                            | 10.25                   | 9.25                            | 2000                             | 1200                            |
| *AC042AKC*   | EP*42J****+TD1             | 41000                            | 10                      | 9                               | 2000                             | 1400                            |
| *AC042AKC*   | EP*42F****+TD1             | 39500                            | 10                      | 9.05                            | 2000                             | 1100                            |
| *AC042AKC*   | EMH42F****+TD1             | 39500                            | 10                      | 9.05                            | 2000                             | 1100                            |
| *AC042AKC*   | EMH48F****+TD1             | 41000                            | 10                      | 9.15                            | 2000                             | 1300                            |
| *AC042AKC*   | EP*42J****+MV16J22****+TXV | 41000                            | 10.25                   | 9.05                            | 2000                             | 1435                            |
| *AC042AKC*   | EP*42J****+TD1             | 41000                            | 10                      | 9                               | 2000                             | 1400                            |
| *AC042AKC*   | EP*42J****+NTV6100+TXV     | 41000                            | 10.25                   | 9.1                             | 2000                             | 1385                            |
| *AC042AKC*   | EP*42J****+NTV6125+TXV     | 41000                            | 10.25                   | 9.15                            | 2000                             | 1360                            |
| *AC042AKC*   | EP*42J****+8MPV100+TXV     | 41000                            | 10                      | 8.9                             | 2000                             | 1425                            |
| *AC042AKC*   | EP*42J****+8MPV125+TXV     | 39500                            | 10                      | 8.85                            | 2000                             | 1395                            |
| *AC042AKC*   | EP*48F****+TD1             | 41000                            | 10                      | 9.1                             | 2000                             | 1300                            |
| *AC042AKC*   | EP*48J****+TD1             | 42000                            | 10                      | 9.1                             | 2000                             | 1400                            |
| *AC042AKC*   | EP*48N****+TD1             | 42000                            | 10                      | 9.1                             | 2000                             | 1400                            |
| *AC042AKC*   | EP*48N****+NTV6100+TXV     | 42000                            | 10.5                    | 9.65                            | 2000                             | 1420                            |
| *AC042AKC*   | EP*48N****+NTV6125+TXV     | 42000                            | 11                      | 9.7                             | 2000                             | 1360                            |
| *AC042AKC*   | EP*48N****+8MPV100+TXV     | 42000                            | 10.5                    | 9.5                             | 2000                             | 1420                            |
| *AC042AKC*   | EP*48N****+8MPV125+TXV     | 42000                            | 10.5                    | 9.45                            | 2000                             | 1425                            |
| *AC042AKC*   | EP*48N****+9MPV100+TXV     | 42000                            | 10.3                    | 9.25                            | 2000                             | 1430                            |
| *AC042AKC*   | EP*48N****+9MPV125+TXV     | 42000                            | 10.3                    | 9.2                             | 2000                             | 1425                            |
| *AC042AKC*   | EP*48N****+MV16J22****+TXV | 42000                            | 11                      | 9.7                             | 2000                             | 1430                            |
| *AC042AKC*   | EX*42F****+TD1             | 41500                            | 10.3                    | 9.25                            | 2000                             | 1200                            |
| *AC042AKC*   | EX*42J****+TD1             | 41500                            | 10.3                    | 9.25                            | 2000                             | 1200                            |
| *AC042AKC*   | EX*42J****+NTV6100         | 42000                            | 11                      | 9.7                             | 2000                             | 1375                            |
| *AC042AKC*   | EX*42J****+NTV6125         | 42000                            | 11                      | 9.75                            | 2000                             | 1315                            |
| *AC042AKC*   | EX*42J****+8MPV100         | 42000                            | 10.5                    | 9.55                            | 2000                             | 1375                            |
| *AC042AKC*   | EX*42J****+8MPV125         | 42000                            | 10.5                    | 9.5                             | 2000                             | 1380                            |
| *AC042AKC*   | EX*42J****+9MPV100         | 42000                            | 10.5                    | 9.3                             | 2000                             | 1390                            |
| *AC042AKC*   | EX*42J****+9MPV125         | 42000                            | 10.25                   | 9.25                            | 2000                             | 1385                            |
| *AC042AKC*   | EX*42J****+MV16J22****     | 42000                            | 11                      | 9.75                            | 2000                             | 1385                            |
| *AC042AKC*   | EX*48J****+TD1             | 42000                            | 10.25                   | 9.2                             | 2000                             | 1400                            |
| *AC042AKC*   | EX*48N****+TD1             | 42000                            | 10.25                   | 9.2                             | 2000                             | 1400                            |
| *AC042AKC*   | EX*48N****+NTV6125         | 42500                            | 11                      | 9.8                             | 2000                             | 1375                            |
| *AC042AKC*   | EX*48N****+8MPV125         | 42500                            | 10.5                    | 9.55                            | 2000                             | 1445                            |
| *AC042AKC*   | EX*48N****+9MPV125         | 42500                            | 10.5                    | 9.3                             | 2000                             | 1435                            |
| *AC042AKC*   | EX*48N****+MV16J22****     | 42500                            | 11                      | 9.8                             | 2000                             | 1440                            |
| *AC042AKC*   | EBP42****                  | 41000                            | 10                      | 9                               | 2000                             | 1400                            |
| *AC042AKC*   | EBP48****                  | 42000                            | 10                      | 9.1                             | 2000                             | 1400                            |
| *AC042AKC*   | EBV48****                  | 43000                            | 11                      | 9.95                            | 2000                             | 1400                            |
| *AC042AKC*   | EBX48****                  | 42500                            | 10.5                    | 9.25                            | 2000                             | 1400                            |
| *AC042AKC*   | EMH42F****+TD1+TXV         | 39500                            | 10.25                   | 9.05                            | 2000                             | 1100                            |
| *AC042AKC*   | EMH48F****+TD1+TXV         | 41000                            | 10.25                   | 9.15                            | 2000                             | 1300                            |
| *AC042AKC*   | EP*42F****+TD1+TXV         | 39500                            | 10.25                   | 9.05                            | 2000                             | 1100                            |
| *AC042AKC*   | EP*42J****+TD1+TXV         | 40000                            | 10.25                   | 9.05                            | 2000                             | 1200                            |

# PERFORMANCE DATA COOLING

| Model Number | Air Handler                | Rating A Cooling Capacity(MBtuh) | SEER Rating (Btuh/watt) | Rating A EER Rating (Btuh/watt) | Outdoor Coil Air Quantity (SCFM) | Indoor Coil Air Quantity (SCFM) |
|--------------|----------------------------|----------------------------------|-------------------------|---------------------------------|----------------------------------|---------------------------------|
| *AC042AKC*   | EP*48F****+TD1+TXV         | 41000                            | 10.25                   | 9.1                             | 2000                             | 1300                            |
| *AC042AKC*   | EP*48J****+TD1+TXV         | 41500                            | 10.25                   | 9.1                             | 2000                             | 1400                            |
| *AC042AKC*   | EP*48N****+TD1+TXV         | 41500                            | 10.25                   | 9.1                             | 2000                             | 1400                            |
| *AC048AKC*   | EP*48L****+TD1             | 47000                            | 10                      | 9.45                            | 3100                             | 1600                            |
| *AC048AKC*   | EP*48F****+TD1             | 45000                            | 10.5                    | 9.45                            | 3100                             | 1300                            |
| *AC048AKC*   | EMH48F****+TD1             | 45500                            | 10.5                    | 9.55                            | 3100                             | 1300                            |
| *AC048AKC*   | EP*48J****+TD1             | 46000                            | 10.5                    | 9.5                             | 3100                             | 1400                            |
| *AC048AKC*   | EP*48J****+NTV6100+TXV     | 47000                            | 11                      | 9.8                             | 3100                             | 1545                            |
| *AC048AKC*   | EP*48J****+NTV6125+TXV     | 46500                            | 11                      | 9.8                             | 3100                             | 1510                            |
| *AC048AKC*   | EP*48J****+8MPV100+TXV     | 46500                            | 10.5                    | 9.55                            | 3100                             | 1565                            |
| *AC048AKC*   | EP*48J****+8MPV125+TXV     | 46500                            | 10.5                    | 9.5                             | 3100                             | 1550                            |
| *AC048AKC*   | EP*48J****+9MPV100+TXV     | 46500                            | 10.5                    | 9.3                             | 3100                             | 1580                            |
| *AC048AKC*   | EP*48J****+9MPV125+TXV     | 46500                            | 10.3                    | 9.25                            | 3100                             | 1580                            |
| *AC048AKC*   | EP*48J****+MV20N26****+TXV | 47000                            | 11                      | 9.85                            | 3100                             | 1590                            |
| *AC048AKC*   | EP*48N****+TD1             | 46000                            | 10.5                    | 9.5                             | 3100                             | 1400                            |
| *AC048AKC*   | EP*60J****+TD1             | 47500                            | 10.5                    | 9.55                            | 3100                             | 1600                            |
| *AC048AKC*   | EP*60J****+NTV6100+TXV     | 48000                            | 11                      | 10                              | 3100                             | 1610                            |
| *AC048AKC*   | EP*60J****+NTV6125+TXV     | 48000                            | 11                      | 10.05                           | 3100                             | 1580                            |
| *AC048AKC*   | EP*60J****+8MPV100+TXV     | 47500                            | 11                      | 9.75                            | 3100                             | 1630                            |
| *AC048AKC*   | EP*60J****+8MPV125+TXV     | 47500                            | 11                      | 9.7                             | 3100                             | 1620                            |
| *AC048AKC*   | EP*60J****+9MPV100+TXV     | 47500                            | 10.5                    | 9.5                             | 3100                             | 1635                            |
| *AC048AKC*   | EP*60J****+9MPV125+TXV     | 47500                            | 10.5                    | 9.45                            | 3100                             | 1635                            |
| *AC048AKC*   | EP*60J****+MV20N26****+TXV | 48000                            | 11                      | 10.05                           | 3100                             | 1665                            |
| *AC048AKC*   | EP*60N****+TD1             | 47500                            | 10.5                    | 9.55                            | 3100                             | 1600                            |
| *AC048AKC*   | EX*48J****+TD1             | 47000                            | 10.5                    | 9.55                            | 3100                             | 1500                            |
| *AC048AKC*   | EX*48N****+TD1             | 47000                            | 10.5                    | 9.55                            | 3100                             | 1500                            |
| *AC048AKC*   | EX*48N****+NTV6125         | 47500                            | 11                      | 9.95                            | 3100                             | 1540                            |
| *AC048AKC*   | EX*48N****+8MPV125         | 47500                            | 11                      | 9.65                            | 3100                             | 1580                            |
| *AC048AKC*   | EX*48N****+9MPV125         | 47500                            | 10.5                    | 9.4                             | 3100                             | 1605                            |
| *AC048AKC*   | EX*48N****+MV20N26****     | 48000                            | 11                      | 10                              | 3100                             | 1625                            |
| *AC048AKC*   | EBP48****                  | 47500                            | 10.5                    | 9.4                             | 3100                             | 1600                            |
| *AC048AKC*   | EBP60****                  | 48000                            | 10.5                    | 9.45                            | 3100                             | 1600                            |
| *AC048AKC*   | EBV48****                  | 48000                            | 11                      | 10.1                            | 3100                             | 1600                            |
| *AC048AKC*   | EBX48****                  | 48000                            | 10.5                    | 9.7                             | 3100                             | 1600                            |
| *AC048AKC*   | EBX60****                  | 48000                            | 10.5                    | 9.8                             | 3100                             | 1600                            |
| *AC048AKC*   | EP*48F****+TD1+TXV         | 45000                            | 10.5                    | 9.4                             | 3100                             | 1300                            |
| *AC048AKC*   | EP*48J****+TD1+TXV         | 46000                            | 10.5                    | 9.45                            | 3100                             | 1400                            |
| *AC048AKC*   | EP*48N****+TD1+TXV         | 46000                            | 10.5                    | 9.45                            | 3100                             | 1400                            |
| *AC048AKC*   | EP*60J****+TD1+TXV         | 47500                            | 10.5                    | 9.55                            | 3100                             | 1600                            |
| *AC048AKC*   | EP*60N****+TD1+TXV         | 47500                            | 10.5                    | 9.55                            | 3100                             | 1600                            |
| *AC060AKC*   | EP*60N****+TD1             | 56500                            | 10                      | 8.65                            | 3100                             | 1750                            |
| *AC060AKC*   | EP*60J****+TD1             | 56000                            | 10                      | 8.65                            | 3100                             | 1750                            |
| *AC060AKC*   | EX*60N****+TD1             | 59000                            | 10                      | 9.05                            | 3100                             | 1700                            |
| *AC060AKC*   | EX*60N****+NTV6125         | 59000                            | 10.3                    | 9.15                            | 3100                             | 1840                            |
| *AC060AKC*   | EX*60N****+MV20N26****     | 59000                            | 10.5                    | 9.3                             | 3100                             | 1830                            |
| *AC060AKC*   | EBP60****                  | 58000                            | 10                      | 8.7                             | 3100                             | 1700                            |
| *AC060AKC*   | EBV60****                  | 59000                            | 10.5                    | 9.25                            | 3100                             | 1700                            |
| *AC060AKC*   | EBX60****                  | 59000                            | 10                      | 8.9                             | 3100                             | 1700                            |
| *AC060AKC*   | EP*60J****+TD1+TXV         | 56000                            | 10                      | 8.65                            | 3100                             | 1750                            |
| *AC060AKC*   | EP*60N****+TD1+TXV         | 56000                            | 10                      | 8.65                            | 3100                             | 1750                            |

## MODEL NUMBER IDENTIFICATION GUIDE

|                                                                                                      |    |   |    |   |   |                                                                                                                         |                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------|----|---|----|---|---|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MODEL NUMBER</b> *<br><b>PRODUCT FAMILY</b><br>* = Brand                                          | AC | 0 | 24 | A | K | C                                                                                                                       | <b>SALES CODE</b><br><b>ELECTRICAL</b><br>K = 208/230-1-60<br>H = 208/230-3-60<br><b>CONNECTIONS</b><br>A = Sweat / Valve G = Sweat / Valve & Coil Guard |
| <b>PRODUCT TYPE</b><br>AC = Air Conditioning CA = Condenser A/C<br>HP = Heat Pump CH = Condenser H/P |    |   |    |   |   |                                                                                                                         | <b>NOMINAL SEER RATING</b><br>0 = 10 2 = 12 4 = 14                                                                                                       |
|                                                                                                      |    |   |    |   |   | <b>NOMINAL CAPACITY MBTUH</b><br>18 = 18,000 24 = 24,000 30 = 30,000 36 = 36,000<br>42 = 42,000 48 = 48,000 60 = 60,000 |                                                                                                                                                          |

## EXTENDED REFRIGERANT LINE CORRECTION FACTORS

| Varying Line Length in Feet ( m ) vs. Total Capacity Multiplier |           |           |            |            |            |
|-----------------------------------------------------------------|-----------|-----------|------------|------------|------------|
| 25 ( 8 )                                                        | 50 ( 15 ) | 75 ( 23 ) | 100 ( 30 ) | 125 ( 38 ) | 150 ( 46 ) |
| 1.00                                                            | .99       | .98       | .96        | .94        | .92        |

### REFRIGERANT CHARGE DATA

All models are factory charged with R-22 for outdoor unit, 25' ( 8m ) of refrigerant line and matching indoor section.  
 Refrigerant charge correction per foot ( 305mm ) of line:  
 1/4" O.D. = .25 oz.; 5/16" O.D. = .45 oz.; 3/8" O.D. = .60 oz.;  
 1/2" O.D. = 1.2 oz.

## VOLTAGE CORRECTION FACTORS

| Volts | Capacity | Watts |
|-------|----------|-------|
| 208   | .98      | .99   |

## INDOOR AIRFLOW CORRECTION TABLE

| % Rated Air      | 90  | 95  | 100  | 105  | 110  |
|------------------|-----|-----|------|------|------|
| Total Cap. Mult. | .98 | .99 | 1.00 | 1.01 | 1.03 |
| Sens Cap. Mult.  | .95 | .98 | 1.00 | 1.03 | 1.05 |

## INDOOR TEMPERATURE CORRECTION TABLE

(Based on 95°F Ambient)

| Indoor D.B. °F (°C). | Correction Factor | Entering Indoor Wet Bulb °F (°C). |         |         |         |         |         |         |
|----------------------|-------------------|-----------------------------------|---------|---------|---------|---------|---------|---------|
|                      |                   | 59 (15)                           | 61 (16) | 63 (17) | 65 (18) | 67 (19) | 69 (20) | 71 (21) |
| 70 (21)              | Total Cap. Mult.  | .90                               | .93     | .96     | .99     | 1.02    | -       | -       |
|                      | Sens Cap. Mult.   | .86                               | .85     | .82     | .77     | .70     | -       | -       |
| 75 (24)              | Total Cap. Mult.  | .89                               | .92     | .95     | .98     | 1.01    | 1.04    | -       |
|                      | Sens Cap. Mult.   | 1.04                              | 1.03    | 1.00    | .95     | .88     | .78     | -       |
| 80 (26)              | Total Cap. Mult.  | .88                               | .91     | .94     | .97     | 1.00    | 1.03    | 1.06    |
|                      | Sens Cap. Mult.   | 1.18                              | 1.17    | 1.14    | 1.08    | 1.00    | .89     | .73     |
| 85 (29)              | Total Cap. Mult.  | -                                 | .90     | .93     | .96     | .99     | 1.02    | 1.05    |
|                      | Sens Cap. Mult.   | -                                 | 1.29    | 1.26    | 1.20    | 1.11    | .98     | .81     |

Bold Type = approximately 50% Relative Humidity

# TOWNSHIP OF BRICK

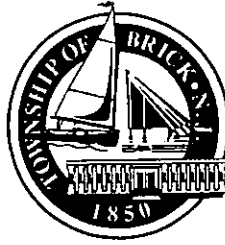
OCEAN COUNTY, NEW JERSEY

401 CHAMBERS BRIDGE ROAD, BRICK, N.J. 08723

Joseph C. Scarpelli, Mayor

Township Council:

Stephen C. Acropolis – President  
Gregory S. Kavanagh  
Anthony Matthews  
Kathy M. Russell  
Ruthanne Scaturro  
Michael A. Thulen, Sr.  
Frederick J. Underwood, Sr.



Department of Engineering

Office of the Municipal Engineer

(732) 262-1038

Fax: (732) 262-8954

<http://www.twp.brick.nj.us>

X Date: 1/25/06

Block: 831 Lot: 10, 11, 12

Property Address: 1657 WEST PRINCETON AVE

I, EDWARD J. SERAFIN JR. of 1679 WEST PRINCETON AVE BRICK, N.J.  
(name) (address)

request to be exempt from the plot plan requirement for an addition, fence, shed, deck, pool, retaining wall, ect. as outlined in the Brick Land Use Book, Chapter 190.31, Part B.

X Edward J. Scarpelli  
Applicant's Signature

The following shall be submitted with this request:

1. Submit surveys locating existing dwelling and proposed addition. Dimensions of the addition should be included.
2. Proof that the property is not located in a Flood Hazard Area.

Note: Prior to approval a site inspection by the Engineering Department will be performed to verify that the proposed addition will not create a drainage problem.

FOR OFFICE USE ONLY

Approved on: 2/28/06

Signed: [Signature]

Rejected on: \_\_\_\_\_

Signed: \_\_\_\_\_

Comments:

**SPECIFICATIONS**

**for**

**PROPOSED ADDITION & ALTERATIONS to:**

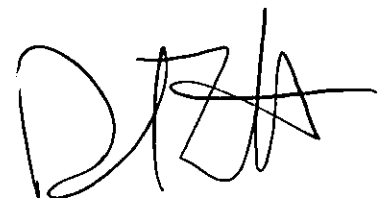
**ABEL RESIDENCE  
1657 West Princeton Avenue  
Brick, New Jersey**

**December 16, 2005**

**DANIEL FORTUNATO · ARCHITECT, P.A.**

---

98 FAIRFIELD ROAD, PRINCETON, NEW JERSEY 08540 · 609 - 683 - 0180 · FAX 609 - 683 - 0690

A handwritten signature in black ink, appearing to read 'D.F. Fortunato', is located in the bottom right corner of the page.

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

**DIVISION 1 - GENERAL REQUIREMENTS**

2000 International Residential Code (IRC)

Use Group: R-5; Construction Type: 5B

|               |                |             |        |
|---------------|----------------|-------------|--------|
| Design Loads: | Living Areas   | (live load) | 40# sf |
|               | Sleeping Areas | (live load) | 30# sf |
|               | Roof           | (live load) | 30# sf |
|               | Roof           | (dead load) | 15# sf |
|               | Exterior Decks | (live load) | 40# sf |

1. Definitions:
  - A. Contractor – General Contractor, Subcontractors or their agents or employees, and/or any person performing portions of the Work.
  - B. Owner – person(s) who own the property and/or paying for services for proposed project.
  - C. Work – All information documented on drawings and specifications.
2. All codes having jurisdiction shall be observed strictly in the construction of the project, including all applicable state and national building, electrical, mechanical, plumbing, energy and fire codes. Contractor shall coordinate, and verify if necessary, all code requirements before commencement of construction and bring any discrepancies between code requirements and the construction documents to the attention of the Architect.
3. New wall construction shows dimensions to actual rough dimensions of wood. Gypsum board or other material not included in dimension. Exterior wall indicates rough stud dimension plus ½" exterior plywood sheathing.
4. Details and sections on the drawings are shown at specific locations and are intended to show general requirements throughout. Details noted "typical" imply all conditions treated similarly. Minor details not usually shown or specified, but necessary for proper construction of any part of the work shall be included as if they were indicated in the drawings. The plans are intended as a guide. The work is not limited to that shown on the drawings for a complete job.
5. Do not scale drawings.
6. All materials and construction to be incorporated into the work shall be in strict accordance with the latest edition of the ASTM specifications of the various trade institutes (ACI, AISC, etc.) where applicable.
7. The Architect shall not have control over or charge of and shall not be responsible for construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the Work; nor for taking any steps to achieve compliance with any rules or regulations related to construction means, methods techniques, sequences or procedures or safety precautions and programs in connection with the Work promulgated by the Federal Occupational Safety and Health Administration (OSHA), or by any similar State agency since all of these undertakings are solely for the Contractor's responsibility.

## **ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

8. The Owner and Architect agree the Architect has not undertaken any responsibility for the maintenance of safe conditions at or around the job site during the construction of the Project.
9. The Architect shall not be responsible for the Contractor's schedules or failure to carry out the Work in accordance with the Contract Documents. The Architect shall not have control over or charge or acts or omissions of the Contractor, Subcontractors or their agents or employees, or of any other person performing portions of the Work. Any damage to the existing structure or adjacent areas shall be rectified to the satisfaction of the Owner at the Contractor's expense.
10. In the performance of architectural services, the Architect's responsibility and liability for any error in design, losses, or expenses, shall be limited to the amount recoverable under insurance insuring the Architect for such errors, losses, and expenses, and shall not exceed the original contract cost of the work being removed. The Architect's responsibility and liability for any omissions in the design, which may result in additional work, shall not exceed the cost of modifying the existing work to accept said additional work. To the extent that there is no work in place, the Architect shall have no responsibility or liability for any costs or sums paid on account of said additional work. The Architect shall not be liable or responsible for any costs for any change which results in the addition of previously omitted work or for any improvement or betterment to the original construction documents or for any change requested by the Owner.

### **DIVISION 1 - CONTRACTOR**

1. The Contractor shall visit the building and site of the proposed work and examine the existing conditions prior to contract signing. The Contractor shall compare the existing conditions to the intent of the contract documents and shall notify the Architect of all discrepancies or qualifications, which may arise before proceeding with that portion of the work. Failure to notify will not relieve the Contractor of the responsibility of performing the work as intended by the contract documents. The Contractor shall make all corrections required due to his failure to coordinate such discrepancies.
2. Contractor shall bring errors and omissions, which may occur, in Contract Documents to the attention of the Architect in writing prior to bidding and written instructions shall be obtained before proceeding with the work. The Contractor will be held responsible for the results of any errors, discrepancies or omissions in the Contract Documents, of which the Contractor failed to notify the Architect before construction and/or fabrication of the work.
3. The Contractor shall verify all dimensions and job conditions at the job site sufficiently in advance of work to be performed to assure the orderly progress of the work, and shall verify or locate and protect all utility or service lines and existing site area from deterioration or damage. The Contractor shall verify all underground utilities before starting any excavation by contacting 1-800-272-1000. Contractor shall relocate all utilities in the way of new work.
4. The Contractor shall protect and preserve all existing items to remain and shall repair and/or replace any items damaged during the course of work to the satisfaction of the Owner at no additional cost.

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

5. The scope of demolition and removal to be performed shall not be limited by the drawings or specifications but shall include any and all work that shall be required, or directed by the Architect and/or Owner, in order to facilitate the new work.
6. All demolition materials and debris shall be legally disposed of by the Contractor away from the premises.
7. The Contractor shall provide protection for the general public and construction workers in and around the construction area. Adequate barriers shall be provided to exercise control of safe ingress and egress of premises. Emergency exits shall at no time be blocked.
8. The Contractor shall provide and maintain temporary facilities for protection and/or enclosure of areas of work and protection of areas where there is no further work. Remove temporary facilities when no longer required.
9. The Contractor shall coordinate all operations with the Owner, such as work areas used for storage, access to and from work areas, timing of work, special considerations of noisy operations, interruptions for mechanical and electrical services, etc. No flammable or toxic materials should be stored inside the building.
10. The Contractor shall not disrupt, disturb or encroach upon any adjoining properties. Use complete and adequate means and measures to protect any and all adjoining properties from and against construction conditions, which may be disruptive or damaging. Liability resulting from the execution of the work shall be the sole responsibility of the Contractor.
11. The Contractor shall supply all labor, materials and equipment required to complete the work as indicated on the drawings. Each contractor shall do all cutting, patching, repairing, etc., as required to complete his portion of the work.
12. The Contractor shall be bound to perform in strict compliance with the manufacturer's specifications and/or recommendations where required.
13. The Contractor shall be responsible for adequately bracing and protecting all work during construction against damage, breakage, collapse, distortion and misalignment according to applicable code standards and good practice.
14. The Contractor is always responsible for providing safe and appropriate structural support for all material and equipment such as lighting fixtures, pipes, mechanical equipment etc.
15. The Contractor shall make no changes or alterations to any structural elements without written approval of the Architect. Should unauthorized work of this nature cause any damage, the Contractor will be fully liable for all damages caused to the building or any person or property.
16. Contractors shall maintain the premises clean and free of all trash, debris and shall protect all adjacent work from damage, soiling, paint, etc. All fixtures, equipment, glazing, floors, etc., shall be left clean and ready for occupancy upon completion of the project.

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

17. The Contractor shall maintain insurance during the progress of the work to properly protect all employees, Subcontractors, and Deliverymen, and hold the Owner and Architect harmless by adding as additional insureds.
18. The Contractor shall furnish a certificate of insurance to the Owner prior to starting Work.
19. The Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Contract.
20. The Contractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, Subcontractors and their agents and employees, and other person performing portions of the Work under a contract with the Contractor.
21. The Contractor shall coordinate, secure and pay for the building permit and other permits and governmental fees, licenses and inspections, and reimbursed by the Owner, necessary for proper execution and completion of the Work which are customarily secured after execution of the Contract and which are legally required when bids are received or negotiations concluded.
22. Contractor shall obtain an amended certification of occupancy upon completion of work.
23. The Contractor shall keep the premises and surrounding area free from accumulation of waste materials or rubbish caused by operations under the Contract. At completion of the Work the Contractor shall remove from and about the Project waste materials, rubbish, the Contractor's tools, construction equipment, machinery and surplus materials.

**DIVISION 1 - OWNER**

1. The Owner shall furnish additional surveys describing physical characteristics, legal limitations and utility locations for the site of the Project if necessary.
2. Except for permits and fees, which are the responsibility of the Contractor, the Owner shall secure and pay for necessary approvals, easements, assessments and charges required for construction, use or occupancy of permanent structures or for permanent changes in existing facilities.
3. The Owner is responsible for any additional expenses that would be required to perform and complete work due to unforeseen conditions and local building officials inspections and comments.
4. The Owner shall provide the Contractor with clear and unobstructed access to the Project. All utility cost during construction shall be paid for by the Owner. All temporary adjustments to the utilities shall be provided by the Contractor.
5. The Owner is responsible for all color and finish selections unless otherwise indicated on Drawings.

## **ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

### **DIVISION 1 - CORRECTION PERIOD**

1. At the completion of the job, before final payment, the Contractor is to provide the Owner with a document stipulating a minimum of one-year guarantee of all labor and materials by the Contractor. Where specific products carry a longer guarantee, these shall be turned over to the Owner.
2. The Contractor states to the Owner and the Architect that materials and equipment furnished under the Contract will be of good quality and new unless otherwise required or permitted by the Contract Documents, that the Work will be free from defects not inherent in the quality required or permitted, and that the Work will conform with the requirements of the Contract Documents. Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective.
3. The Contractor's Correction Period excludes remedy for damage or defect caused by abuse, modifications not executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear under normal usage. If required by the Owner, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

### **DIVISION 2 - FOUNDATIONS**

1. Before excavation for any foundations, the Contractor shall locate and stake out all underground services; gas, electric, water, sewer, storm lines, etc.
2. Presumptive soil bearing capacity is 2,000 p.s.f. on undisturbed soil. Bottom of exterior footings shall be minimum of 3'-0" below finish grade.
3. Backfill shall be free of clay, rock or gravel larger than 2" in any direction, debris, vegetable matter, waste and frozen materials. Place backfill and fill materials in layers not more than 8" in loose depth for material compacted by heavy compaction equipment, and not more than 4" in loose depth for material compacted by hand-operated tampers.
4. All slabs on grade shall bear on crushed stone, mechanically compacted to 98% maximum density as determined by ASTM D1557.
5. Backfill shall be brought up equally on each side of foundation walls. Do not backfill until walls have cured.
6. No excavation shall be made whose depth below the footing is greater than ½ of the horizontal distance from the nearest edge of that footing.
7. Building site shall be kept dry so that erosion will not occur in the foundations.

### **DIVISION 2 – SITE WORK**

1. Asphalt driveway shall be installed with 2" top course over 4" thick dense graded aggregate over compacted sub-grade.

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

2. Regrade and seed as required all areas disturbed during construction. The ground immediately adjacent to the foundation shall be sloped away from the building not less than 1 : 12 horizontal for a minimum distance of 8 feet, or an approved alternate method of diverting water away from the foundation shall be used.
3. Landscaping by Owner.

**DIVISION 3 - CONCRETE**

1. All concrete work shall comply with the requirements of the ACI Building Code.
2. Concrete shall have a minimum of 28-day compressive strength of 3,000 psi. Slump shall be 2" minimum and 4" maximum.
3. All concrete shall be ready mix type. All concrete mixes shall be certified by supplier with certified design mix and delivery tickets and shall not exceed ninety (90) minutes lapsed time between materials mixing and depositing.
4. Concrete Materials:
  - A. Portland Cement: Shall conform with ASTM C150, Type I/II, unless otherwise acceptable to Architect. Use one brand of cement throughout project.
  - B. Normal Weight Aggregates: ASTM C33, and as herein specified. Provide aggregates from a single source for expose concrete.
  - C. Water: Drinkable.
5. Reinforcing:
  - A. All bar steel shall meet the requirements of ASTM A615 Grade 60. WWF shall comply with ASTM A185.
  - B. Clearances of reinforcing shall be 3 inches from bottom surfaces of footings.
  - C. Where continuous bars are called for, they shall run continuously around corners and lapped at necessary splices or hooked at discontinuous ends. Laps shall be 40 bar diameters. Bar laps may be offset to avoid control or construction joints.
6. Provide concrete reinforcing bars in locations, and of sizes as indicated on the drawings. Lap all bars a minimum of 40 diameters.
7. Prior to construction of new concrete slabs, all existing topsoil shall be removed and the exposed subgrades shall be thoroughly proofrolled using suitable static roller. Any required new fill should be placed in accordance with Division 2.

## **ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

8. Within on-grade concrete slabs, the WWF reinforcement shall be located midway in the slab thickness. Reinforcement shall be supported by pre-manufactured "metal chairs".
9. All interior concrete slabs, which will be left exposed, shall be sealed.
10. Provide and install a six (6) mil polyethylene vapor barrier complying with ASTM E1745 over porous fill, place reinforcement without damaging the vapor barrier and then place concrete as indicated on the drawings.
11. All exterior concrete to be air-entrained to 6%, and in accordance with ASTM C260.
12. Finish of slabs shall conform to Chapter 11, ACI 301. Slabs shall be placed in one operation and finished monolithically. Exterior surfaces shall be finished with a wood float; interior surfaces shall be steel troweled.
13. Provide adequate means and safeguards as required and further identified in ACI standards for "cold weather concrete" placement and protection.
14. Provisions must be taken to protect all concrete work from frost damage with special attention paid to footings and other on-grade construction prior to back filling and enclosing the building.
15. Footing elevations shown on the drawings are for general scope of the work and are intended to establish a contract quantity of work.
16. Control joints, bond breakers and expansion joints to be placed where indicated or otherwise required by ACI standards.
17. Construction joints 3/8 inch in width and 4 inch in depth shall be provided between concrete paving, curb, and building; and within paving and curbs, they shall be spaced at equal intervals and, in no case, exceed 6 feet. All joints shall contain 3/8-inch thick pre-molded joint filler and edges shall be formed with a joint of 1/8-inch radius.
18. Allow suitable provisions to prevent cold jointing of concrete.
19. No chemical curing agents shall be allowed without express written permission of the Architect.
20. The Contractor shall be responsible for and provide concrete testing by an independent testing agency in accordance with ASTM C31 and ASTM C36. Test cylinder shall be made for every 50 cubic yards of concrete placed or for any lesser amount placed on any one day.

## **DIVISION 4 - MASONRY**

1. All masonry units shall be carefully laid, plumb and level with well-filled mortar joints and solid mortar beds. Masonry units shall be laid in running bond with vertical joints in alignment in alternate courses. Comply with IRC Chapter 6 (Wall Construction).

## **ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

2. All exposed joints shall be compacted and tooled to produce a slightly concave joint. Joints unexposed in the finish work shall be struck, such as parged surfaces. CMU walls shall be parged on the exterior surface below ground level with not less than 3/8 inch Portland cement mortar. Parging shall be covered at footing. Dampproofing to be installed over parging (see Division 7).
3. Provide hot-dipped galvanized truss type horizontal joint reinforcement (min. 9 gage) at 16" on center vertical in all masonry walls complying with ASTM A82. Provide fabricated corner sections at all corners.
4. Concrete masonry units shall be Grade N, Type II standard 8" X 16" with thickness as indicated on the drawings and comply with ASTM C90 and C145. Manufactured by a member of NCMA; with a minimum compressive strength of 1,900 psi at 28 days.
5. Mortar:
  - A. All mortar shall be type M for below grade, and N above grade.
  - B. Water shall be potable and free from injurious amounts of oil, soluble salts, alkali, acids, organic impurities and other deleterious materials.
7. Cold weather protection procedures shall be performed in strict accordance with the requirements of the National Concrete Masonry Association and the Brick Institute of America. No additives or admixtures of any kind shall be used without the express written consent of the Architect.
8. Upon completion, point up all exposed masonry walls, remove loose mortar, cut out defective joints and repoint where necessary. Masonry surfaces to be exposed shall be thoroughly cleaned. Leave work surfaces free from mortar, efflorescence and other stains at completion of work.
9. Install 1/2" x 18" galvanized anchor bolt with single pressure treated sill plate (1/2" x 20" anchor bolt for double plate) at top of masonry wall. The bolts shall be embedded in masonry walls to a depth of not less than 16 inches in grouted unit masonry. There shall be a minimum of two anchor bolts per section of plate and anchor bolts shall be placed 12 inches from the end of each section of plate, with intermediate bolts spaced a maximum of 6 feet. Install sill gasket between top of cmu and sill plates.

### **DIVISION 6 - WOOD**

1. Rough Carpentry:
  - A. Provide framing members of sizes and on spacing shown. Do not splice structural members between supports. Do not notch any beams or structural members without consent of Architect. Comply with IRC Chapter 5 (Floors), IRC Chapter 6 (Wall Construction), and IRC Chapter 8 (Roof-Ceiling Construction).

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

- B. Anchor and nail to comply with IRC Fastener Schedule for Structural Members Table R602.3 (1). All fasteners, flashing, brackets and hangers that come in contact with pressure treated wood, in any fashion, shall be stainless steel (grade 304 or 316), or high grade galvanized steel (G-185). All pressure treated or natural decay resistant wood to comply with AWPAC2. The use of CCA preservatives is not permitted.
- C. Protect materials from exposure to weather and contact with damp or wet surfaces. Stack lumber and plywood; provide air circulation within stacks and under temporary cover.
- D. Set all joists and beams with natural camber up. Securely spike together joists ends lapped over bearing.
- E. Provide 5/4" x 3" cross bridging at center span or 8'-0" o/c maximum. Use solid blocking at ends unless otherwise noted.
- F. Double frame under all parallel partitions.
- G. Headers for openings as follows, unless otherwise indicated:  
3'-0" to 5'-0" use (2) 2" x 8" (700 p.s.f. max.)  
5'-0" to 7'-0" use (2) 2" x 10" (582 p.s.f. max.)  
7'-0" to 8'-0" use (2) 2" x 12" (658 p.s.f. max.)
- H. For spans 6'-0" and over provide double stud bearing at each end, unless otherwise indicated.

**2. Lumber:**

- A. Nominal sizes are indicated. Provide actual sizes as required by PS20, for moisture content specified for each use. Provide dressed lumber, S4S. Provide seasoned lumber with 19% maximum moisture content at time of dressing and shipment.
  - 1. Framing Joists: Douglas Fir-Larch, #1 Grade or better, Fb = 1,000 P.S.I. minimum.
  - 2. Vertical Framing, Plates and Blocking: Douglas Fir-Larch stud grade or better, Fb = 700 P.S.I. minimum.
- B. Miscellaneous wood bridging, bracing, or blocking:
  - 1. Shall be 2 x (dimensional) Douglas Fir-Larch, Construction Grade or better. (The above occurring at an exterior condition, ground, concrete, and/or masonry contact, or within 8" of grade etc. shall be pressure treated lumber).
- C. All wood sill plates in contact with masonry walls or concrete slabs shall be pressure treated wood.

**3. Construction Panels:**

- A. Each panel shall be identified with the appropriate trademark of APA, and shall meet the requirements of the latest edition of Voluntary Product Standard PS 1, Voluntary Product Standard PS 2, or APA PRP-108 Performance Standards.

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

- B. All panels which have any edge or surface exposed long term to the weather shall be classed Exterior.
  - C. Sub-flooring:  $\frac{3}{4}$ " APA performance rated plywood, Exposure 1 durability classification, span rating as required to suit joist spacing indicated.
    - 1. Install with long dimension or strength axis of the panel across supports, and with panel continuous over two or more spans. Panel end joints shall occur over framing. Spacing of  $\frac{1}{8}$ " is recommended at panel ends and edges, unless otherwise indicated by the panel manufacturer (supported panel joints shall occur approximately along the centerline of framing with a minimum bearing of  $\frac{1}{2}$ ").
    - 2. Nail 6" o.c. along supported panel edges and 12" o.c. at intermediate supports with 8d common nails.
    - 3. Sand subfloor joints if necessary to smooth surface prior to installing finish flooring.
  - D. Wall sheathing:  $\frac{1}{2}$ " APA performance rated plywood sheathing, Exposure 1 durability classification, span rating as required to suit stud spacing indicated.
    - 1. Spacing of  $\frac{1}{8}$ " is recommended at panel ends and edges, unless otherwise indicated by the panel manufacturer (supported panel joints shall occur approximately along the centerline of framing with a minimum bearing of  $\frac{1}{2}$ ").
    - 2. Nail 6" o.c. along supported panel edges and 12" o.c. at intermediate supports with 6d common nails.
  - E. Roof sheathing:  $\frac{1}{2}$ " (unless otherwise indicated on drawings) performance rated sheathing, Exposure 1 durability classification, span rating as required to suit rafter spacing. Install aluminum "H" clips as required.
    - 1. Install with long dimension or strength axis of the panel across supports, and with panel continuous over two or more spans. Suitable edge support shall be provided by use of panel clips, tongue-and-groove edges, or lumber blocking between joists.
    - 2. Panel end joints shall occur over framing. Spacing of  $\frac{1}{8}$ " is recommended at panel ends and edges, unless otherwise indicated by the panel manufacturer (supported panel joints shall occur approximately along the centerline of framing with a minimum bearing of  $\frac{1}{2}$ ").
    - 3. Nail 6" o.c. along supported panel edges and 12" o.c. at intermediate supports with 8d common nails.
    - 4. Cover roof sheathing as soon as possible with roofing felt or shingle underlayment for protection against excessive moisture prior to roofing application.
4. Laminated Veneer Lumber (LVL):
- A. All Microllam and/or Parallam beams to be as engineered and manufactured by TrusJoist / Macmillan.
  - B. All connections are to be made using prefabricated connectors. Toenailing will not be permitted. Connectors to be manufactured by Simpson or approved equal.

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

- C. Provide ½" air gap (vertically) between masonry or concrete. Bearing point of beam to rest on steel plate shims or metal flashing. Beam cannot be in direct contact with masonry.
- 5. Finish Carpentry:
  - A. All work shall conform to the quality standards of the Architectural Woodwork Institute (AWI Section 300) for Premium Grade work. Finished woodwork shall be dressed and sanded, free from machine and tool marks, abrasions, raised grain or other defects on surfaces exposed to view. Exposed wood or laminate surfaces shall be uniform in color, texture, and/or grain.
  - B. Lumber shall be sound and dry, selected for compatibility of grain and color and containing no defects that cannot be concealed by finishing methods indicated, i.e. stained transparent or opaque paint finish as selected by Owner. Members 1 5/8" and wider shall be backed out, except where ends are exposed. Scribing and joining shall accomplish hairline joints. Finish trim corner shall be mitered.
  - C. All wood base, door and window trim shall be selected by Owner.
  - D. Sink all nail heads in finished work with a nail set. Nails and screws, where possible, shall be concealed. All nails shall be blind-nailed wherever possible; otherwise the nailing shall be located, driven and filled so as not to be visible in the finish. Countersink face screws and plug with matching wood.
  - E. All kitchen cabinets, bathroom vanities, and counter tops shall be selected by Owner.
    - 1. Coordinate with electrical, plumbing fixtures, trim and related accessories.
    - 2. Caulk at all perimeter wall edges.
- 6. Deck Construction:
  - A. All structural wood framing members to be pressure treated or natural decay resistant wood to comply with AWPA C2. The use of CCA preservatives is not permitted.
    - 1. Framing Joists: #2 Grade, Fb = 1,000 P.S.I. minimum.
    - 2. Base Bid: Decking and Guardrails: Composite material.
    - 3. Alternate: Appearance Lumber: #1 Grade Pressure-treated.
  - B. Deck floor joists shall be supported by joist hangers, connected to a ledger that matches size of joists. The ledger shall be connected to the existing house rim joist with ½" diameter, galvanized lag bolts of sufficient length to bolt firmly into existing rim joist, installed 16" on center, staggered. Install two bolts, one above the other, on each end. Provide a minimum ½" space between the ledger and house for ventilation and drainage by using 1 ½" diameter galvanized washers. Provide continuous copper flashing at the face of the house to prevent the passage of moisture into the wall, or to any untreated wood (Not required if against vinyl siding, metal siding, or masonry. Shims must not crush the siding when bolts are tightened).

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

- C. Guardrails to be 36 inches above finished deck with balusters constructed such that a sphere with a diameter of 4 inches cannot pass through any opening. Guardrails shall not have an ornamental pattern that would provide a ladder effect. Guardrails shall be designed and constructed for a concentrated load of 200 pounds applied at any point and in any direction along the top railing member. The in-fill area of the guard system shall be constructed for a horizontal concentrated load of 200 pounds applied on a one square foot area at any point.
  - D. All pressure treated wood support posts shall be connected to the concrete footing with a 16" x ½" diameter hot-dipped galvanized anchor bolt in the concrete, and a galvanized base plate secured to anchor bolt and post.
  - E. Use Simpson ZMax or USP Structural Connector's Triple Zinc rated G-185 coating for hot-dipped galvanized products, including joist hangers. Class rating of 40 or higher when using electrogalvanized fasteners or expansion bolts.
  - F. Screws and nails to be hot-dip galvanized, stainless steel, or polymer-coated.
7. Deck Stair Construction:
- A. Stair construction to be as follows:
    - 1. Stringers: 2" x 12" minimum with 3 ½" effective depth, 16" o/c.
    - 2. Treads: 10" minimum depth.
    - 4. Risers: 8 ¼" maximum height.
    - 5. Minimum Stair Width: 36".
    - 6. Solid risers or risers permitting no more than a 4" sphere are required.
    - 7. Dimensional Uniformity: There shall not be a variation exceeding 3/16" in the depth of adjacent treads or in the height of adjacent risers. The tolerance between the largest and smallest riser or tread shall not exceed 3/8" in any flight of stairs.
  - B. Handrails:
    - 1. All stairways with 3 or more risers require continuous handrails and guardrails (on both sides).
    - 2. All handrails shall have a circular cross section with an outside of 1 ½". Edges shall have a minimum radius of 1/8".
    - 3. Handrails to be smooth and free of any sharp edges or splinters.
    - 4. The clear space between the handrail and adjacent wall or surface shall not be less than 1 ½".
    - 5. Handrails to be minimum 34", maximum 38" above front edge of step nosing, and shall be continuous the full length of the stairs, and both ends returned to posts.
    - 6. Handrails shall be designed and constructed for a concentrated load of 200 pounds applied at any point.
8. Deck Joist Hangers and Connectors:
- A. All joist hangers to be Simpson ZMax (or USP Structural Connector's Triple Zinc) rated G-185 coating for hot-dipped galvanized products as follows:

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

1. Post to Concrete Footing: #AB44 for 4" x 4" wood posts; #AB66 for 6" x 6" wood posts.
  2. Post to Girder: #LPC4 for 4" x 4" wood posts; #LPC6 for 6" x 6" wood posts.
  3. Joist to Girder: #H3.
  4. Joist Hanger: #LU28 for 2" x 8" joists; #LU210 for 2" x 10" joists.
9. Joist Hangers and Connectors:
- A. All joist hangers and connectors to be by Simpson, where indicated on drawing, or as required.
  - B. The vertical load bearing capacity, torsion moment capacity, and deflection characteristics of joist hangers shall be determined in accordance with ASTM D1761.

**DIVISION 7 - THERMAL AND MOISTURE PROTECTION**

1. Provide and install flashing as indicated on the drawings and at all roof-to-wall conditions, exterior openings, and elsewhere as required providing watertight/weatherproof performance.
  - A. Aluminum flashing shall meet the requirements of ASTM B 209 and be minimum 0.032" thick standard building sheet with plain finish. Provide kick-out at base of all flashing at roof-to-wall conditions. Install adhesive membrane over step flashing.
  - B. Copper flashing to be minimum 5 oz. at all pressure-treated wood conditions (refer to Division 6, Parts 1.B and 9.B).
  - C. Pan flash all window and door openings.
2. Install flashing and sheet metal in compliance with "Architectural Sheet Metal Manual" by SMACNA.
3. Rainwater Conductors
  - A. Provide and install .032 aluminum K-style gutters, and leaders as indicated on the drawings and specified herein. Where possible, connect to and match existing gutters and leaders.
  - B. Color selected by Owner from standard range.
  - C. Provide hangers, anchors and accessories as recommended by manufacturer for a complete installation.
  - D. Extend leaders to underground drains or splash blocks as directed by Owner.
4. Bituminous Dampproofing (where hydrostatic pressure will not occur):
  - A. Dampproofing shall consist of a bituminous material, 3 pounds per square yard of acrylic modified cement, 1/8 - inch coat of surface-bonding mortar complying with ASTM C887.

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

- B. Install dampproofing membrane on the earth side of all walls from the finished grade or finish floor as applicable down the wall face and over the top of the footing.
  - C. If ground-water investigation by others indicates that a hydrostatic pressure condition exists, and the drawings do not indicate a ground-water control system, foundation walls shall be waterproofed in accordance with Section R406.3.
5. Rigid Perimeter Insulation:
- A. Furnish and install in thickness as indicated on the drawings by the manufacturers standard board sizes. Perimeter insulation shall be closed cell, glass reinforced polyisocyanurate foam core boards with foil facers, both sides. Product shall conform to Federal Specification HH-1-1972/1 Class 2.
6. Kraft-Faced Batt Insulation:
- A. Insulation shall be furnished in thickness and with R-values as indicated on the drawings, and in widths to match frame spacing stud spacing. Insulation shall have a flame-spread index not to exceed 25 with an accompanying smoke-developed index not to exceed 450 when tested in accordance with ASTM E84.
  - B. Batt insulation shall fit all framing spaces including areas between joists and outside headers, behind electrical outlets and piping and other areas in such a way as to form a complete insulating blanket around the heated areas of the structure.
  - C. Vapor barriers shall be positioned on the heated side of the insulation blanket.
  - D. Install vent chutes at all soffit vent locations where required, and as indicated on drawings.
7. Sealant:
- A. Furnish and install sealant as indicated and otherwise required.
    - 1. Colored urethane sealant for exterior use (Note: Install sealant on top and sides of windows and doors).
    - 2. Paintable acrylic latex sealant for general interior use.
    - 3. White silicone sealant for around plumbing fixtures.
  - B. Materials shall be delivered to the site and stored in unopened containers bearing the manufacturer's name and product identification. Follow manufacturer's recommendations for handling products containing toxic materials. Keep flammable materials away from heat, sparks, and open flame.
  - C. All caulking and sealant, primers and accessories shall be nonstaining to adjacent exposed materials. Products having similar application and usage shall be of the same manufacturer and type. Colors shall be selected by the Owner from approved manufacturer's standard range. Use gum consistency compounds unless otherwise required by job conditions.

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

- D. Primers shall be as recommended for each substrate by approved manufacturer of each caulking and sealant material used.
  - E. Sealant shall be applied by the gun method using nozzles of proper size to fit the several widths of the joints.
  - F. The sealant shall be driven into the joint grooves with sufficient pressure to force out all air and to solidly fill the joint grooves. Sealant where exposed shall be free of wrinkles and shall be uniformly smooth. Joints in wash surfaces shall be filled slightly convex to obtain a flush joint when dry. Upon completion of caulking, any joints not entirely filled shall be roughened and filled as specified and the exposed surface tooled smooth.
  - G. The surface of all materials adjoining caulked joints shall be cleaned of all smears of compound or other soiling due to application of sealant.
8. Asphalt Shingle Roofing:
- A. Asphalt roof shingles to be 30 year limited warranty. Color and style as selected by Owner from the manufacturers standard range. Installation shall comply with IRC Section R905.
  - B. Asphalt shingles shall conform to ASTM D3462 or D225.
  - C. All shingles shall be secured to the roof with not less than 6 fasteners per shingle located above slots and indentations.
  - D. Provide single layer of #15 roof felt underlayment for all roof slopes over 4 over 12.
  - E. Shingle head lap shall not be less than 2 inches.
  - F. Install one layer of polymer-modified asphalt with an adhesive backing (W.R. Grace Ice & Water Shield membrane or equal), from roof edge at gutter and extend up to roof to a point 24 inches from inside of exterior wall and in all valleys.
9. Infiltration Barrier:
- A. Install TYVEK House Wrap according to manufacturer's recommendations at the following locations:
    - 1. Vertical walls over plywood sheathing.
    - 2. Floor and rim joist areas.
    - 3. Headerwrap at the top plates.
  - B. Tape any all seams and at the band joist areas. Tape any damaged areas.
  - C. Install Tyvek Flex Wrap at sills of windows and around round top windows.

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

10. Vents:

- A. Ridge vent to be Ridge Master Plus by Mid-America Building Products Corporation, or approved equal.
- B. Soffit vent to be Soffit Master by Mid-America Building Products Corporation, or approved equal, *when matching existing soffit finish.*

**DIVISION 8 - DOORS AND WINDOWS**

1. General:

- A. Furnish and install, doors, frames, windows and glazing as indicated on drawings, and specified herein.
- B. Plans show nominal door width, all door heights to be 6'-8" unless otherwise noted. Provide doors with minimum clearances or overloads necessary for operation without binding. Allow clearance for floor coverings and/or thresholds as indicated.
- C. Glazing in locations which may be subject to human impact such as in fixed, sliding or swinging panels of sliding or swinging type doors; glazing in storm doors; glazed sidelights adjacent to operable doors; shall meet the requirements set forth in the IRC Section R308. All glazed panels located within 12 inches of a door opening, shall be tempered glass, unless otherwise noted.
- D. Provide and install hardware items as selected by Owner.
- E. Provide a complete weather tight installation as follows: Maintain alignment with adjacent work. Secure assembly to framed openings, plumb, and square, without distortion. Place insulation in shim spaces around unit perimeter, to maintain continuity of building thermal barrier. Install sealant and related backing materials at perimeter of assembly.

2. Interior Wood Doors:

- A. All wood doors shall be 1 3/8" thick by size specified, raised panel hollow core doors, unless otherwise directed by Owner.
- B. Fit hardware prior to the application of painter's finish, remove during the finishing operation and reset after completion of the finish.

3. Wood Windows and Patio Doors:

- A. Window and Door units shall be 400 Series, High Performance Low-E glass, manufactured by Andersen Window Corporation.

## **ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

- B. Provide a complete window installation, including but not limited to factory assembled clad windows, glass and glazing, muntin grilles, subsill, anchorages, attachments, and shims in accordance with the drawings and the best recommended practice of the window manufacturer and as follows:
  - 1. Double hung windows to include screens, stool, and interior wood trim.
  - 2. Circle top windows to include extension jambs, interior wood arch casing, and plinth blocks.
  - 3. Hinged patio or sliding doors to include screens, oak sills, door hardware, and interior wood trim.
  - 5. Exterior color, interior wood finish, and window treatment to be selected by Owner.
  - 6. Skylights to be by Velux, unless otherwise noted, with all accessories included as per model specified on drawings.
- C. Provide a complete weather tight installation as follows:
  - 1. Maintain alignment with adjacent work.
  - 2. Secure assembly to framed openings, plumb, square, without distortion.
  - 3. Place insulation in shim spaces around unit perimeter, to maintain continuity of building thermal barrier.
  - 4. *Install sealant and related backing materials at perimeter of assembly in accordance with Division 7.*

### **DIVISION 9 - FINISHES**

- 1. Gypsum Board:
  - A. Provide and install gypsum wallboard of the type and thickness indicated. Provide all materials and accessories as required for a complete installation in accordance with the manufacturer's recommendation and the "Gypsum Construction Handbook" published by United States Gypsum Co. and IRC Chapter 7 (Wall Covering)
  - B. Provide ½" gypsum board complying with ASTM C36, and in maximum lengths available to minimize end-to-end butt joints, edges to be tapered. All surfaces exposed for finish painting to be finished to Level 4.
  - C. Joint treatment materials to comply with ASTM C475, type recommended by the manufacturer for the application indicated. Tape or mesh can be used with setting-type compound. Tape only with ready-mix compound.
  - D. Provide ½" water resistant gypsum board complying with ASTM C630 in all wet areas, and in maximum lengths available to minimize end-to-end butt joints with edges to be tapered. Finish to Level 1.
  - E. Dens Shield Tile Backer underlayment to be used for all tile applications (i.e. around tub and shower enclosures at walls, ceilings, and tub platforms). Finish to Level 1.

## **ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

### **2. Painting:**

- A. All surfaces to be finished shall be clean and free of foreign materials (dirt, grease, asphalt, rust, etc.).
- B. All exterior and interior surfaces shall be finish painted except color coordinated factory finish surfaces. Colors of factory-finished materials shall be selected by Owner from the approved manufacturer's standard colors.
- C. Application shall be in a workmanlike manner providing a smooth surface. Perform preparation and cleaning procedures in accordance with paint manufacturer's instructions for each particular substrate condition and where directed by Owner.
- D. Mix and prepare painting materials in accordance with manufacturer's directions.
- E. Apply paint in accordance with manufacturer's directions. Use applicators and techniques best suited for substrate and type of material being applied.
  - 1. New walls and ceilings shall receive one (1) coat of primer and two (2) coats of a high quality eggshell finish.
  - 2. Existing walls and ceilings affected by work shall be repaired as required, and free of cracks, and shall receive one (1) coat of primer and (2) coats of a high quality eggshell finish.
  - 3. All wood trim where work occurs shall receive two (2) coats of a high quality semi-gloss paint.
- F. Handling, storage and installation of all coatings, as well as preparation of the surface to be coated, must be done in strict accordance with the manufacturers recommendations. Ready-mixed paint shall not be thinned, except as permitted in the application instructions.

## **DIVISION 10 - SPECIALTIES**

### **1. Fire Protection:**

- A. For additions 25% or larger of existing house area:
  - 1. Smoke detectors shall be interconnected, installed and maintained in the immediate vicinity of the bedrooms; in all bedrooms; and in each story within the dwelling unit, including the basement.
- B. In addition to the required AC primary power source, required smoke detectors shall receive battery backup power.

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

- C. The detectors shall be wired in such a manner that the actuation of one alarm will actuate all of the alarms within the dwelling.
- D. Provide heat detector in Garage, connected to alarm system.
- F. Install carbon monoxide smoke detectors as required by code, and to comply with UL 2034.

**DIVISION 15 - MECHANICAL**

- 1. HVAC (to be designed by others):
  - A. The HVAC Contractor shall verify all conditions on the plans and at the site prior to starting any work. All work to conform to the 2003 International Mechanical Code.
  - B. Contractor shall provide all labor, materials and equipment necessary to install ventilation, heating and air conditioning as selected by Owner. Contractor shall test and balance system.
  - C. The Mechanical work shall be installed as required. Contractors shall coordinate work with all other trades, architectural and structural conditions.
  - D. All HVAC equipment to be in conditioned space. Install ducts within conditioned space, if possible, not in exterior walls or in or under concrete floor slabs.
  - E. Bathroom / lavatory exhaust fans to be by Broan, minimum 110 cfm. Duct all fans to exterior.
- 2. Plumbing:
  - A. Plumbing Contractor shall verify all conditions on the plans and at the site prior to starting any work. All work to conform to the 2003 National Standard Plumbing Code. Selection of fixtures, hardware, and colors by Owner, and installed by Contractor.
  - B. Contractor shall provide all labor, materials and equipment necessary to install plumbing and related fixtures as selected by Owner. Contractors shall coordinate work with all other trades, architectural and structural conditions. Contractor shall install and check all pressure reducing valves, pop off valves and other safety devices and test all installations to assure proper operation.
  - C. Extend existing service to meet needs of fixtures as required.
  - D. Toilets to be 1.6-gallon tank type and are selected by Owner.

**DIVISION 16 - ELECTRICAL**

- 1. Electrical Contractor shall verify all conditions on the plans and at the site prior to starting any work. All work to conform to the 2002 National Electrical Code.

**ABEL RESIDENCE, 1657 West Princeton Avenue, Brick, New Jersey**

2. Contractor shall provide and install all labor, materials and equipment necessary to install wiring, related fixtures, and controls. Subcontractor shall coordinate work with all other trades. Terminal hookup is required of all fixtures and appliances, motors, fans and controls.
3. Electrical system layouts are generally diagrammatic, location of outlets and equipment are approximate. Exact routing of wiring, locations of outlets, etc. shall be governed by structural conditions and obstructions. Wiring for equipment requiring maintenance and inspection shall be readily accessible.
4. Electrical Contractor is to coordinate all concealed utilities at potential work areas prior to beginning any work.
5. All electrical equipment, breakers, etc. shall be properly labeled.
6. Materials and equipment shall be new and listed by Underwriter's Laboratories, Inc. and bear their label wherever standards have been established and their label service is regularly furnished.
7. Verify and locate all receptacles prior to installation of gypsum board.
8. If, upon inspection by building official, an electric wiring system is found defective and unsafe, the Owner is responsible for all revisions until system has been made to conform to code.
9. Install receptacles at 1'-3" to centerline above finish floor unless otherwise noted. Install light switches at 4'-0" to centerline above finish floor unless otherwise noted.
10. Provide GFI outlets where shown on plans and required for compliance with applicable codes and regulations. Install receptacles in toilet rooms and kitchen above counter top unless otherwise noted on plans.
11. All light fixtures, switches, and receptacles to be selected by Owner.
12. All recessed incandescent fixtures shall be Type IC non-rated, installed inside a sealed box constructed from a minimum ½ inch thick gypsum board or constructed from a perforated polymeric vapor barrier, or other air-tight assembly manufactured for this purpose, while maintaining required clearance of not less than ½ inch from combustible material and not less than 3 inches from insulation material.
13. Contractor shall verify all wiring requirements with Owner regarding CATV, computer and telephone jack locations.

**END OF SPECIFICATION**

|             |  |
|-------------|--|
| PREPARED BY |  |
| DATE        |  |

## LIST OF EXISTING PLUMBING FIXTURES

2<sup>1</sup> WATER CLOSET

2<sup>2</sup> LAVATORY

2<sup>3</sup> SHOWER

1<sup>4</sup> WASHING MACHINE

2<sup>5</sup> NOSE BIBS

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

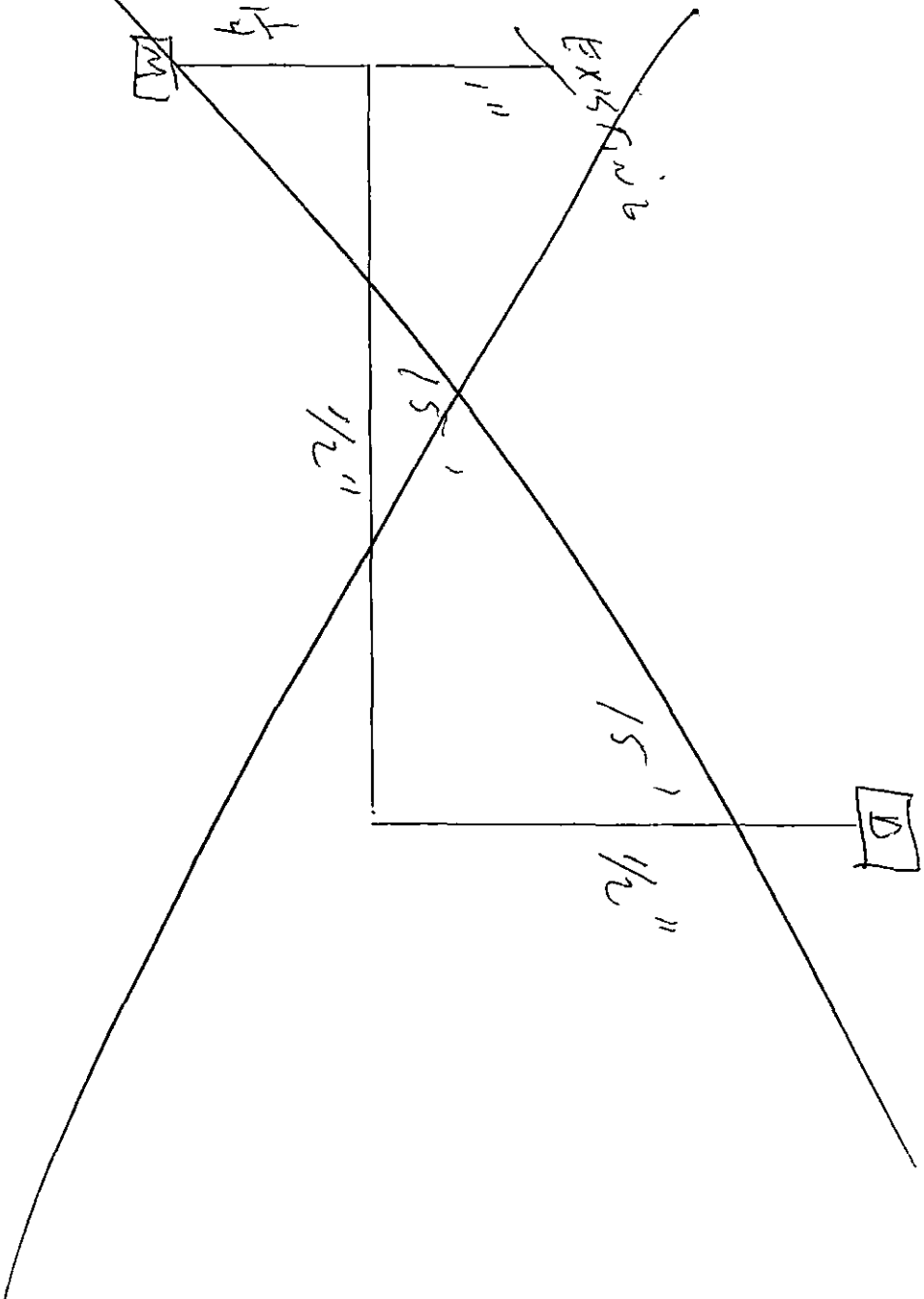
27

28

Player 30000 BTU's

30' Run

*[Signature]*





Bldg

Elect

Fire

Plumbing

(Please mark subcode)

CONTROL NUMBER 06-0789

TOWNSHIP OF BRICK  
APPLICATION REVIEW PROCESS

ADDRESS OF APPLICATION: 1657 West Manchester Rd

DATE REVIEWED: 2/28/06

REVIEWED BY: Matt HARRIS

CONTACT CALLED/FAXED: EDWARD - 232-840-4994

2003 International Fire Code, Approved location

Day in Bathroom) Section 303.3

Edward Called That Day in Bill Edwards TO

Reference

[Signature]

Bldg

Elect

Fire

Plumbing

( Please mark subcode)

CONTROL NUMBER 0789

TOWNSHIP OF BRICK  
APPLICATION REVIEW PROCESS

ADDRESS OF APPLICATION:

11051

W. Princeton Ave

DATE REVIEWED:

3-1-06

REVIEWED BY:

WU

CONTACT CALLED/FAXED:

Perkins, J.  
03/01/06

Up date Elect Dryer



# **EJS HOME IMPROVEMENTS**

**1679 West Princeton Avenue**

**Brick, NJ 08724**

**732-840-0693**

---

**TO: Brick Township Fire Inspector**  
**FROM: Edward J. Serafin, EJS Home Improvements**  
**RE: Residence at 1657 West Princeton Avenue**  
**DATE: March 6, 2006**

**The purpose of this letter is to inform you that the existing residence at 1657 West Princeton Avenue will be brought up to code with smoke detectors added in all bedroom and hallway areas during the proposed renovations as per our conversation.**

**Any questions please feel free to call me at 732-691-5505. Thank you.**

**Edward J. Serafin, Owner**  
**EJS HOME IMPROVEMENTS**

A handwritten signature in black ink, appearing to read "Edward J. Serafin", written in a cursive style.

New Jersey Office of the Attorney General  
Division of Consumer Affairs  
THIS IS TO CERTIFY THAT THE

Division of Consumer Affairs  
HAS REGISTERED  
EJS Home Improvements  
Home Improvement Contractor

11/04/2005 TO 12/31/2006  
VALID

*Edward J. Gaffney Jr.*  
SIGNATURE

13VH01350300

*Kimberly S. Roberts*  
DIRECTOR

License/Registration/Certificate #

## SIZING FOR WATER AND SEWER SERVICES

PROPERTY OWNER Gratham DATE 2/28/06  
PROPERTY ADDRESS 1657 West Packer Ave BLOCK 831 LOT 10, 11, 12  
ZONING \_\_\_\_\_ USE GROUP \_\_\_\_\_  
CONTRACTOR \_\_\_\_\_ LICENSE # REGISTRATION \_\_\_\_\_  
WATER MAIN SIZE \_\_\_\_\_ WATER PRESSURE \_\_\_\_\_ SEWER MAIN SIZE \_\_\_\_\_

| <u>PLUMING FIXTURES</u>           | <u>NUMBER</u> | <u>(sfu)</u> | <u>WATER UNITS</u> | <u>(dfu)</u> | <u>DRANAGE</u> |
|-----------------------------------|---------------|--------------|--------------------|--------------|----------------|
| 1. BATHROOM GROUP                 | <u>2</u>      | ( )          | <u>7.0</u>         | ( )          | _____          |
| 2. KITCHEN GROUP                  | <u>1</u>      | ( )          | <u>2.0</u>         | ( )          | _____          |
| 3. WATER CLOSETS                  | _____         | ( )          | _____              | ( )          | _____          |
| 4. LAVATORY                       | _____         | ( )          | _____              | ( )          | _____          |
| 5. BATH TUB                       | _____         | ( )          | _____              | ( )          | _____          |
| 6. SHOWER STALL                   | _____         | ( )          | _____              | ( )          | _____          |
| 7. KITCHEN SINK                   | _____         | ( )          | _____              | ( )          | _____          |
| 8. SERVICE SINK                   | _____         | ( )          | _____              | ( )          | _____          |
| 9. LAUNDRY TRAY                   | _____         | ( )          | _____              | ( )          | _____          |
| 10. DISHWASHER                    | _____         | ( )          | _____              | ( )          | _____          |
| 11. WASHING MACHINE               | <u>2</u>      | ( )          | <u>8.0</u>         | ( )          | _____          |
| 12. URINAL                        | _____         | ( )          | _____              | ( )          | _____          |
| 13. FLOOR DRAIN                   | _____         | ( )          | _____              | ( )          | _____          |
| 14. DRINK FOUNTAIN                | _____         | ( )          | _____              | ( )          | _____          |
| 15. AIR CONDITION<br>WATER COOLED | _____         | ( )          | _____              | ( )          | _____          |
| 16. DENTAL UNIT                   | _____         | ( )          | _____              | ( )          | _____          |
| 17. LAWN SPRINKLE                 | _____         | ( )          | _____              | ( )          | _____          |
| 18. FIRE SPRINKLE                 | _____         | ( )          | _____              | ( )          | _____          |
| 19. HOSE BIBS                     | <u>2</u>      | ( )          | <u>3.5</u>         | ( )          | _____          |
| TOTALS                            |               |              | <u>20.5</u>        |              | _____          |

GALLONS PER MINUTE \_\_\_\_\_

SIZE of SERVICE 1"

DATE: 2/28/06

APPROVED BY: Mark H. [Signature]

# DANIEL FORTUNATO · ARCHITECT, P. A.

---

98 FAIRFIELD ROAD, PRINCETON, NEW JERSEY 08540 · 609-683-0180 · FAX 609-683-0690

April 20, 2006

Brick Building Department  
401 Chambersbridge Road  
Brick, New Jersey 08723

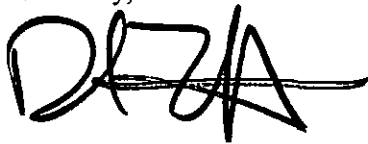
Re: Abel Residence  
1657 West Princeton Avenue

The following revision is to be made to the construction documents for the above referenced project:

- The (3) 2" x 8" beams in the Crawl Space on Drawing A-2 will be changed to 3 1/2" x 9 1/2" Parallam beams.

If you have any further questions, please do not hesitate to contact my office.

Sincerely,



Daniel Fortunato, AIA

cc: Mr. & Mrs. G. Abel, Homeowners  
Mr. Ed Serafin, General Contractor

06-0727  
Blk 831  
Lot 10

# DANIEL FORTUNATO · ARCHITECT, P. A.

---

98 FAIRFIELD ROAD, PRINCETON, NEW JERSEY 08540 · 609-683-0180 · FAX 609-683-0690

April 20, 2006

Brick Building Department  
401 Chambersbridge Road  
Brick, New Jersey 08723

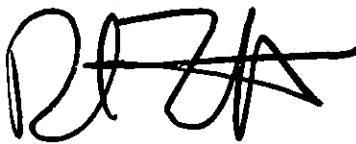
Re: Abel Residence  
1657 West Princeton Avenue

The following revision is to be made to the construction documents for the above referenced project:

- The (3) 2" x 8" beams in the Crawl Space on Drawing A-2 will be changed to 3 ½" x 9 ½" Parallam beams.

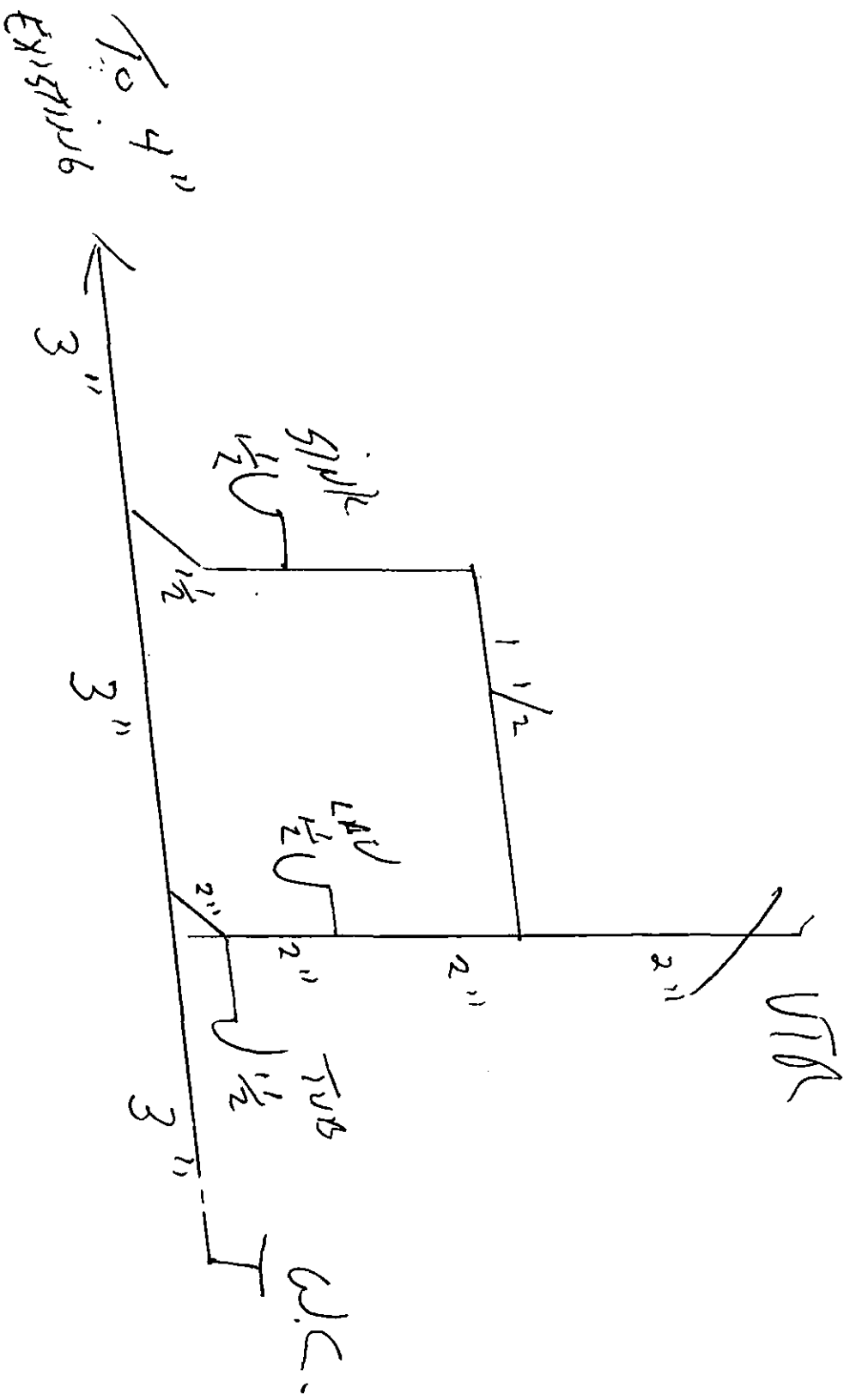
If you have any further questions, please do not hesitate to contact my office.

Sincerely,

A handwritten signature in black ink, appearing to be 'DF' followed by a stylized flourish.

Daniel Fortunato, AIA

cc: Mr. & Mrs. G. Abel, Homeowners  
Mr. Ed Serafin, General Contractor



[Handwritten signature/initials]

P. J. J. 8.16.04

LOT: 16-72  
BLOCK: 831

Block: 83

NOTE: ALL ITEMS SHOULD BE AS SHOWN ON THE PLANS OR AS REQUIRED BY CODE

NOTE: ALL ITEMS SHOULD BE AS SHOWN ON THE PLANS OR AS REQUIRED BY CODE

- #### 4. COLUMNS:

ATTACHMENT/B  
SIZED PER PLAN

|   |  |                   |
|---|--|-------------------|
| 6 |  | ATTACHMENT/PLATES |
| 7 |  | SPACING/LOCATION  |

SPACING/LOCAL PAINT/COATING

PAINT/COATING

### 3. FLOOR JOISTS:

- 1st 2nd 3rd

[illegible]

|  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|

[
   
 {
   
 [
   
 [

157

☒ ☐ ☐ ☐

☐ ☐ ☐ ☐ ☐

☐ 1. ☐ 2. ☐ 3. ☐ 4.

100

☐ ☐ ☐ ☐

**Figure 1**

☐ ☒ ☐

1  
2  
3  
4  
5

1

1

g Using this checklist an

CONSISTENT CODE, 14.9.7

*Chlorophyll*

Q. Now, you're going to ask me to read this, is that right?

①

Building Inspector  
Initials: JS  
Date: 6/8/05

PERMIT # 06-0727

LOT: 10-12 BLOCK: 831

## C. WALL FRAMING

### 1. EXTERIOR WALL FRAME:

|                                     |                                     |                                     |                                |
|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------|
| 1 <sup>ST</sup>                     | 2 <sup>ND</sup>                     | 3 <sup>RD</sup>                     | FLOOR                          |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | SIZE                           |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | SPECIES                        |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | SPECIES AND GRADE              |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | CUTTING, NOTCHING, AND BORING  |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | HEADER SIZES                   |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | JACK STUD BEARING              |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | TOP PLATES                     |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | NAILING                        |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | LAPS                           |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | RAFTER TIES                    |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | HURRICANE STRAPS (AS REQUIRED) |

## D. ROOF FRAMING

### 1. TRUSS ROOF FRAMING (AS PER DESIGN):

APPROVED DOCUMENTS WHICH SHOW:

|                                     |                                                      |
|-------------------------------------|------------------------------------------------------|
| <input checked="" type="checkbox"/> | LAYOUT PLANS                                         |
| <input checked="" type="checkbox"/> | TRUSS MEMBERS                                        |
| <input checked="" type="checkbox"/> | CONNECTION SCHEDULE                                  |
| <input checked="" type="checkbox"/> | PERMANENT BRACING DETAILS                            |
| <input checked="" type="checkbox"/> | DORMERS / ROOF STRUCTURES ON MANUFACTURER'S DRAWINGS |
| <input checked="" type="checkbox"/> | EQUIPMENT / APPLIANCES ON MANUFACTURER'S DRAWINGS    |
| <input checked="" type="checkbox"/> | LOCATION AS PER LAYOUT                               |
| <input checked="" type="checkbox"/> | ALIGNMENT                                            |
| <input checked="" type="checkbox"/> | BEARING                                              |
| <input checked="" type="checkbox"/> | SPACING                                              |
| <input checked="" type="checkbox"/> | CONNECTIONS TO BEARING POINTS                        |
| <input checked="" type="checkbox"/> | NO CONNECTION TO NON-BEARING POINTS                  |
| <input checked="" type="checkbox"/> | DAMAGE AND DEFECTS                                   |
| <input checked="" type="checkbox"/> | ENGINEERED METHOD OF REPAIR                          |

### 2. INTERIOR LOAD-BEARING WALLS:

|                                     |                                     |                                     |                               |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------|
| 1 <sup>ST</sup>                     | 2 <sup>ND</sup>                     | 3 <sup>RD</sup>                     | FLOOR                         |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | SIZE                          |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | SPECIES                       |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | SPECIES AND GRADE             |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | CUTTING, NOTCHING, AND BORING |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | HEADER SIZES                  |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | JACK STUD BEARING             |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | TOP PLATES                    |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | NAILING                       |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | LAPS                          |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | STRAPPING                     |

### 2. PERMANENT TRUSS-TO-TRUSS BRACING (AS PER DESIGN):

|                                     |                                  |
|-------------------------------------|----------------------------------|
| <input checked="" type="checkbox"/> | LAYOUT                           |
| <input checked="" type="checkbox"/> | SIZE                             |
| <input checked="" type="checkbox"/> | TYPE                             |
| <input checked="" type="checkbox"/> | NAILING                          |
| <input checked="" type="checkbox"/> | OVERLAP                          |
| <input checked="" type="checkbox"/> | TERMINATION                      |
| <input checked="" type="checkbox"/> | TRANSITION (I.E., CROSS) BRACING |

### 3. GABLE END BRACING (AS PER DESIGN):

|                                     |             |
|-------------------------------------|-------------|
| <input checked="" type="checkbox"/> | LAYOUT      |
| <input checked="" type="checkbox"/> | SIZE        |
| <input checked="" type="checkbox"/> | TYPE        |
| <input checked="" type="checkbox"/> | NAILING     |
| <input checked="" type="checkbox"/> | OVERLAP     |
| <input checked="" type="checkbox"/> | TERMINATION |

### 3. INTERIOR NON-LOAD-BEARING WALLS:

|                                     |                                     |                                     |                               |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------|
| 1 <sup>ST</sup>                     | 2 <sup>ND</sup>                     | 3 <sup>RD</sup>                     | FLOOR                         |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | SIZE                          |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | SPECIES                       |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | SPECIES AND GRADE             |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | CUTTING, NOTCHING, AND BORING |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | HEADER SIZES                  |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | TOP PLATE NAILING             |

### 4. SOLID SAWN ROOF FRAMING:

|                                     |                                                            |
|-------------------------------------|------------------------------------------------------------|
| <input checked="" type="checkbox"/> | SIZE                                                       |
| <input checked="" type="checkbox"/> | GRADES, SPECIES                                            |
| <input checked="" type="checkbox"/> | LAYOUT                                                     |
| <input checked="" type="checkbox"/> | SPACING                                                    |
| <input checked="" type="checkbox"/> | SPAN                                                       |
| <input checked="" type="checkbox"/> | BEARING                                                    |
| <input checked="" type="checkbox"/> | FASTENING                                                  |
| <input checked="" type="checkbox"/> | DAMAGE CAUSED BY FASTENERS (RAFTERS NOT SPLIT BY TOENAILS) |
| <input checked="" type="checkbox"/> | CUTTING, NOTCHING, AND BORING                              |
| <input checked="" type="checkbox"/> | BRIDGING                                                   |
| <input checked="" type="checkbox"/> | RIDGE SIZE                                                 |
| <input checked="" type="checkbox"/> | HURRICANE TIES WHERE APPLICABLE                            |

## E. SHEATHING

### 1. SHEATHING - EXTERIOR WALLS:

|                                     |                              |
|-------------------------------------|------------------------------|
| <input checked="" type="checkbox"/> | MATERIAL                     |
| <input checked="" type="checkbox"/> | PANEL SPAN, THICKNESS        |
| <input checked="" type="checkbox"/> | SPECIAL REQUIREMENTS         |
| <input checked="" type="checkbox"/> | GAPING                       |
| <input checked="" type="checkbox"/> | LAYOUT                       |
| <input checked="" type="checkbox"/> | CORNER BRACING (IF REQUIRED) |

### 2. SHEATHING - ROOF:

|                                     |                              |
|-------------------------------------|------------------------------|
| <input checked="" type="checkbox"/> | MATERIAL                     |
| <input checked="" type="checkbox"/> | PANEL SPAN, THICKNESS        |
| <input checked="" type="checkbox"/> | SPECIAL REQUIREMENTS         |
| <input checked="" type="checkbox"/> | BLOCKING, EDGE (IF REQUIRED) |
| <input checked="" type="checkbox"/> | CLIPS (IF REQUIRED)          |
| <input checked="" type="checkbox"/> | GAPING                       |
| <input checked="" type="checkbox"/> | LAYOUT                       |

### SHEATHING, FRT - ROOF

|                                     |                         |
|-------------------------------------|-------------------------|
| <input checked="" type="checkbox"/> | FOUR FEET FROM FIREWALL |
| <input checked="" type="checkbox"/> | NONCORROSIVE FASTENERS  |

## **EJS HOME IMPROVEMENTS**

**1679 West Princeton Avenue**

**Brick, NJ 08724**

**732-840-0693**

---

**TO: Brick Township Fire Inspector**  
**FROM: Edward J. Serafin, EJS Home Improvements**  
**RE: Residence at 1657 West Princeton Avenue**  
**DATE: March 6, 2006**

The purpose of this letter is to inform you that the existing residence at 1657 West Princeton Avenue will be brought up to code with smoke detectors added in all bedroom and hallway areas during the proposed renovations as per our conversation.

Any questions please feel free to call me at 732-691-5505. Thank you.

**Edward J. Serafin, Owner**  
**EJS HOME IMPROVEMENTS**

A handwritten signature in black ink, appearing to read "Edward J. Serafin", written in a cursive style.

**OFFICE OF AFFORDABLE HOUSING**  
**MANDATORY DEVELOPMENT FEES**

BLOCK: 831.00 LOT: 10,11,12  
SITE ADDRESS: 1657 W. Princeton Ave.  
CONTROL #: 06-0789 WORK TYPE: Addition  
APPLICANT: E.J.S. Home Improvements PHONE # 732-840-4994  
APPLICANT ADDRESS 1679 W. Princeton Ave. CITY/STATE/ZIP: Brick, NJ 08724

**MANDATORY DEVELOPER FEES**

☒ Residential is 1% Business Name:  
☐ Commercial is 2%  
☐ Waiver Signed for estimated Mandatory Development Fee

The estimated equalized assessed value: Residential \$ 57,200.00  
Commercial  
02/23/2006  
Date

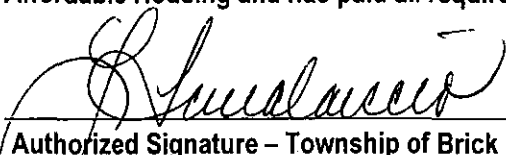
The final equalized assessed value at the above referenced site is: Residential \$ 33,400.00  
Commercial  
06/21/2007  
Date

|                       |                  |                  |                 |
|-----------------------|------------------|------------------|-----------------|
| Prel. Fee (Res)       | \$ <u>286.00</u> | Final Fee (Res)  | \$ <u>48.00</u> |
| Prel. Fee (Comm)      | \$ <u>-</u>      | Final Fee (Comm) | \$ <u>-</u>     |
| Waiver Fee(Res. Only) |                  |                  |                 |

|           |                   |           |                   |
|-----------|-------------------|-----------|-------------------|
| Check #   | <u>1006</u>       | Check #   | <u>Cash #2215</u> |
| Date Paid | <u>02/28/2006</u> | Date Paid | <u>08/13/2007</u> |

|                      |                  |
|----------------------|------------------|
| Total Fee Paid (Res) | \$ <u>334.00</u> |
| Total Fee Paid (Com) | \$ <u>-</u>      |

I hereby certify that the above applicant has complied with all rules and regulations of the Office of Affordable Housing and has paid all required fees and charges.

  
Authorized Signature – Township of Brick

Featuring The 2004 Line of Swim'n Play Pools



We put the FUN in your summer.



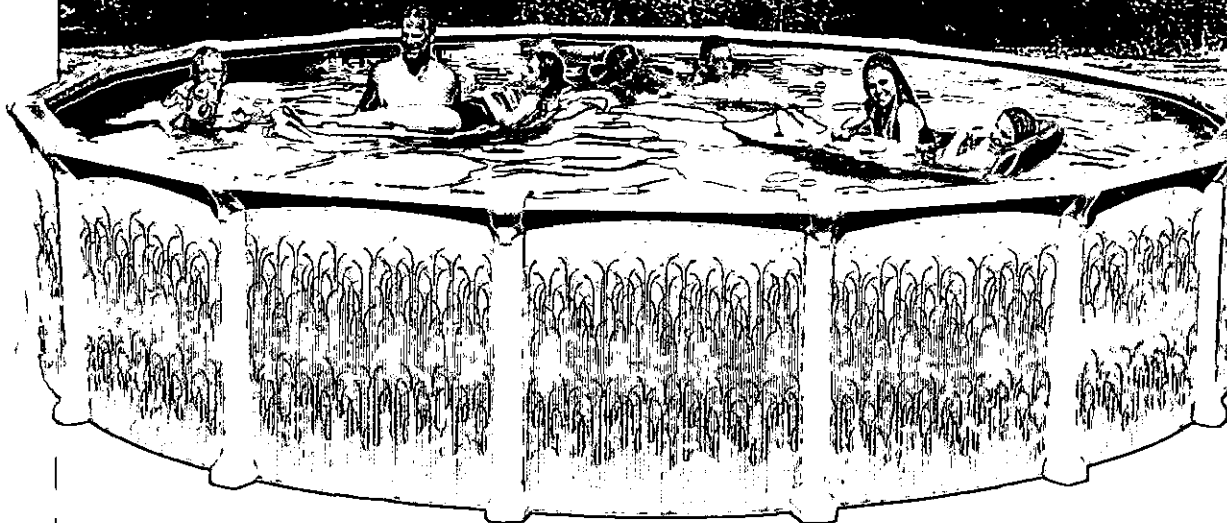
Newark • Hazlet • Brick • Cinnaminson • Wharton • Green Brook

**The Above Ground Pools Made Right Here in New Jersey**

## Table of Contents

|       |                            |
|-------|----------------------------|
| 3     | President's Letter         |
| 4     | Who Are We?                |
| 5     | Why Buy From Branch Brook? |
| 6     | 2004 Pool Line— Lexington  |
| 7     | Palisades – Quantum        |
| 8     | Inspiration – Rio Vista    |
| 9     | Atlantic Beach             |
| 9     | Design Innovations         |
| 10-13 | Pool Features              |
| 14    | Deluxe Pool Package        |
| 14    | Deck & Fence               |
| 15    | Design Options             |
| 16    | Pool Entry Systems         |
| 17    | Filters and 2-Speed Pumps  |
| 18    | Heating Systems            |
| 18    | Heating Pumps              |
| 19    | Pool Cleaners              |
| 20    | Pool Accessories           |
| 21    | Pool Toys                  |
| 21    | Barbecue Grills            |
| 22    | Patio Furniture            |
| 23    | Spas                       |
| 24    | Billiard Tables            |
| 24    | Game Center                |
| 25    | Bars and Accessories       |
| 26    | Christmas Tree 'n' Trim    |
| Back  | Store Locations            |

For over 66 years consumers have trusted the Branch Brook Company name.

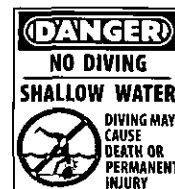


Proudly Serving  
Our Customers  
For 66 Years!  
1938–2004



**WARNING: Pools are not designed for Diving or Jumping.**

©Branch Brook Company, 2004. All rights reserved. No part of this publication may be reproduced in any form or by any means without the express written consent of Branch Brook Company. Manufacturer reserves the right to alter specifications without notice.



*Experience... Quality... Service... Price.....Anything Less Just Won't Do!*

## Message From Our President...



## We Bring To You 66 Years of Dedicated Service

We at Branch Brook Company are very happy you have considered us for your new pool purchase. Over the past 66 years it has been the goal of our company to set the standard for professional and courteous service within the retail industry. We feel that selling you your new swimming pool is only the beginning of a long and happy relationship between your family and Branch Brook Company. We know that it is important to earn your trust. We have found maintaining fair value based pricing, and treating every customer with the respect and personal attention that we ourselves would expect, is the only way to gain your long-term confidence. In fact we are proud of the fact that some of our customers are third generation pool owners. Not only have we sold pools to their Parents but to their Grandparents as well.

You will find, among our staff, some of the pool industries foremost experts. On average, each staff member has been selling, servicing and helping customers for

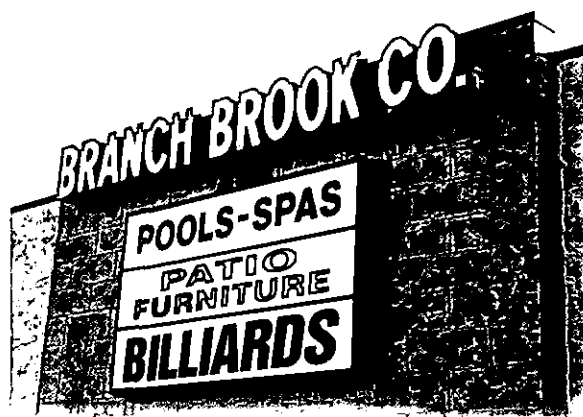
14 years. You can rely on each and every one of them for expert guidance and to be able to answer almost every question you may have regarding your purchase of the new Family pool. You will find that, by having access to this information, your decision-making process will be a pleasurable experience leading to many years of enjoyment as a pool owner.

Our dedication and desire to provide our customers with quality and value has been our driving force in delivering more than you expect from a pool company. When you visit Branch Brook Company you will learn why we have become a favorite among shoppers of swimming pools, spas, patio furniture and billiards for four generations of customers. Our professional staff is looking forward to providing the best possible service you can find in the New Jersey pool market.

Sincerely,

Kevin Ventrice  
President

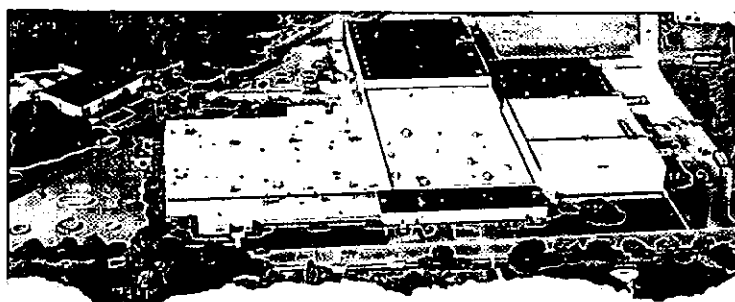
# Who are we?



Branch Brook Company is a fourth generation family business which enjoys the distinction of being one of the oldest retail establishments in New Jersey. We believe the reason for our history of success in the fiercely competitive pool industry can be attributed to our providing each and every customer with the personal attention and professional service they deserve. Since 1938, we have developed and maintained relationships with generations of loyal Branch Brook customers, an accomplishment which speaks volumes about our understanding of our customer's needs and about our unwavering commitment to servicing those needs. One reliable means of ensuring customer satisfaction is simply providing our customers with a

superior product at a great price. Another way is to go the extra mile for our customers by offering services which are not readily available from other retailers. For example, all pools sold by Branch Brook Company are manufactured in New Jersey, and each of our convenient locations features a complete parts department, we can eliminate the

interminable delays and costly freight charges often experienced when ordering a repair or replacement part from distant manufacturers. We also offer full warranties on every pool and pool product we sell, and can conveniently process any and all warranty claims right in our stores. With special services such as these, it's easy to see why Branch Brook Company has grown to become an acknowledged leader in the pool industry.



*Aerial photo of Swim'n Play's 250,000 square foot manufacturing complex in Rahway, New Jersey.*

Swim'n Play, Inc. is an above-ground pool manufacturer founded in 1975 by the owners of Branch Brook Company in order to better control product quality and to develop and implement various improvements and features sought by their customers. They never imagined that their improved products would be so well received. To date, Swim'n Play, Inc. has grown to become one of the top manufacturers of above-ground pools and accessories in the United States, and internationally. Swim'n Play, Inc. conducts every operation used in the manufacture of above-ground pools in its 250,000 square foot factory in Rahway, New Jersey. This New Jersey loca-

tion facilitates speedy delivery of spare and replacement parts, as well as finished products, to all Branch Brook Company stores. The pools manufactured by Swim'n Play, Inc. are among the most durable, finest quality above-ground pools available today. From fabrication to assembly, all products manufactured by Swim'n Play, Inc. must meet rigorous quality control standards before leaving the factory. Never sacrificing quality for price, Branch Brook Company and Swim'n Play, Inc. have a simple philosophy: design and build the highest quality above-ground pools and make them available at "Factory-To-You" prices.



Take a few minutes to examine the contents of the following pages, we feel you will discover why we have such loyal customers, and hope you will soon count yourself among them.

*Experience... Quality... Service... Price..... Anything Less Just Won't Do!*

When you buy a pool from Branch Brook Company, you are guaranteed a product which has met the most rigorous quality standards in every stage of its development, from design to manufacture. Using only the finest materials and the most advanced manufacturing techniques available, Swim'n Play, Inc. has created a line of world-class pools sure to provide you and your family with many hours of enjoyment for years to come.

From pool accessories by the industry's leading manufacturers, to our superior line of above-ground swimming pools, Branch Brook Company and Swim'n Play, Inc. go to extraordinary lengths to provide our customers with the finest quality merchandise. We also stand behind our products 100%. Most warranty claims are processed by trained professionals right in our stores, not by phone or in writing to distant manufacturers. We have a fully-stocked parts department at each of our stores with just the right replacement part for your pool or filter. If not, our factory is conveniently located in Rahway, New Jersey, so you'll never have to spend days or weeks away from your pool while waiting for a part. No matter what the problem, at Branch Brook Company you will always receive the professional, courteous, and expedient service you would expect from an industry leader.

Branch Brook Company is the only retailer in New Jersey selling its own line of above-ground pools. This unique position allows us to eliminate price increases incurred by middlemen, distributors, or freight charges, so we can offer our pools at "factory-to-you" prices. If you do find a lower price on a pool at another retailer, you can be certain their pool is not comparable in quality to a pool by Swim'n Play, Inc. and Branch Brook Company. Since 1938, Branch Brook Company has provided top-quality products at the lowest prices available. With over sixty years of experience in an industry which has recognized our superiority time after time, Branch Brook Company remains the only choice for quality, service, and value.



The pools Branch Brook Company & Swim'n Play, Inc. offer you for 2004 are a culmination of design and development over many years. We bring you the best that our industry has to offer. When you purchase a pool you know we stand behind that product 100%. Our pool designs will compliment any backyard, and give you many years of family enjoyment. We thank you once again for choosing us.

# Lexington

|           |                                       |
|-----------|---------------------------------------|
| Wall      | Blue Lagoon Steel                     |
| Ledges    | 6" Roll-Formed Deluxe Steel           |
| Verticals | 6" Roll-Formed Deluxe Steel           |
| Rails     | Steel Universal Top and Bottom Rails  |
| Cover     | Snap-In Two-Piece Molded Resin        |
| Plates    | Steel Universal Top and Bottom Plates |

## 5 Layer Frame Treatment

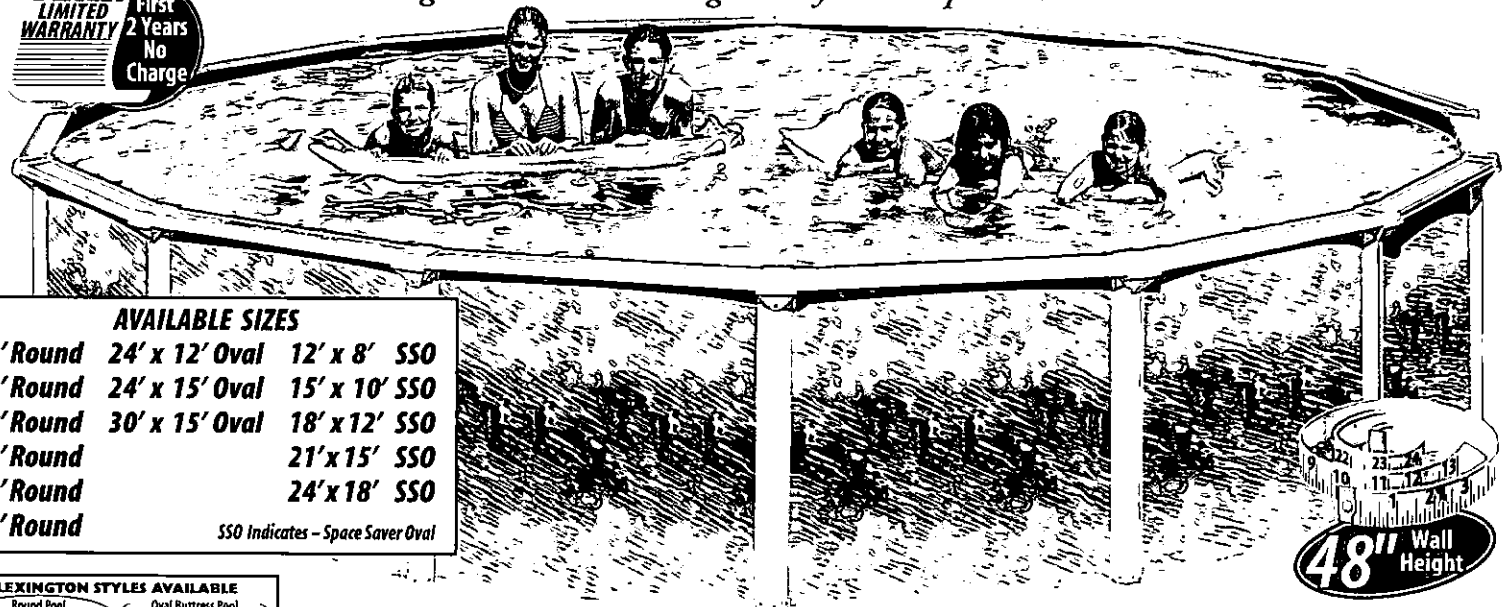
- Steel Core
- 1 Copper-Bearing Alloy
  - 2 Alkaline-Cleaned G-90 Hot-Dipped Galvanized Coating
  - 3 Alkaline-Cleaned Zinc Bonderized Coating
  - 4 Chromic Sealant
  - 5 All-Weather® Enamel Protective Coating on Both Sides of Frame

## 8 Layer Wall Treatment

- Steel Core
- 1 Copper-Bearing Alloy
  - 2 Alkaline-Cleaned G-90 Hot-Dipped Galvanized Coating
  - 3 Alkaline-Cleaned Zinc Bonderized Coating
  - 4 Chromic Sealant
  - 5 Primer Coat
  - 6 All-Weather® Enamel Protective Coating
  - 7 Printed Pattern
  - 8 Exterior Poly-Textured Sealant

**20 YEAR**  
LIMITED WARRANTY  
First 2 Years No Charge

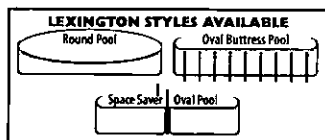
20 Gauge All-Weather™ Virgin Vinyl Overlap Liner



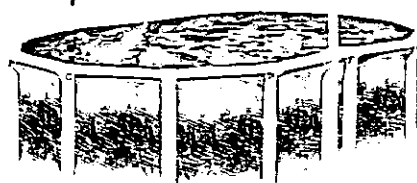
### AVAILABLE SIZES

|           |                |               |
|-----------|----------------|---------------|
| 12' Round | 24' x 12' Oval | 12' x 8' SSO  |
| 15' Round | 24' x 15' Oval | 15' x 10' SSO |
| 18' Round | 30' x 15' Oval | 18' x 12' SSO |
| 21' Round |                | 21' x 15' SSO |
| 24' Round |                | 24' x 18' SSO |
| 27' Round |                |               |

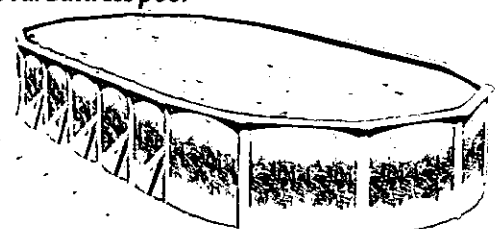
SSO Indicates - Space Saver Oval



Space Saver pool



Oval Buttruss pool



Experience...Quality...Service...Price.....Anything Less Just Won't Do!

# Palisades

|           |                                          |
|-----------|------------------------------------------|
| Wall      | Dune Millennium Steel                    |
| Ledges    | 7" Roll-Formed Deluxe Steel              |
| Verticals | 6" Roll-Formed Box Deluxe Steel          |
| Rails     | 1" Steel Universal Top and Bottom Rails  |
| Cover     | Two-Piece Full-Contoured Molded Resin    |
| Plates    | 6" Steel Universal Top and Bottom Plates |

## 5 Layer Frame Treatment

### Steel Core

- 1 Copper-Bearing Alloy
- 2 Alkaline-Cleaned G-115 Hot-Dipped Galvanized Coating
- 3 Alkaline-Cleaned Zinc Bonderized Coating
- 4 Chromic Sealant
- 5 All-Weather® Enamel Protective Coating on Both Sides of Frame

## 8 Layer Wall Treatment

### Steel Core

- 1 Copper-Bearing Alloy
- 2 Alkaline-Cleaned G-115 Hot-Dipped Galvanized Coating
- 3 Alkaline-Cleaned Zinc Bonderized Coating
- 4 Chromic Sealant
- 5 Primer Coat
- 6 All-Weather® Enamel Protective Coating
- 7 Printed Pattern
- 8 Exterior Poly-Textured Sealant

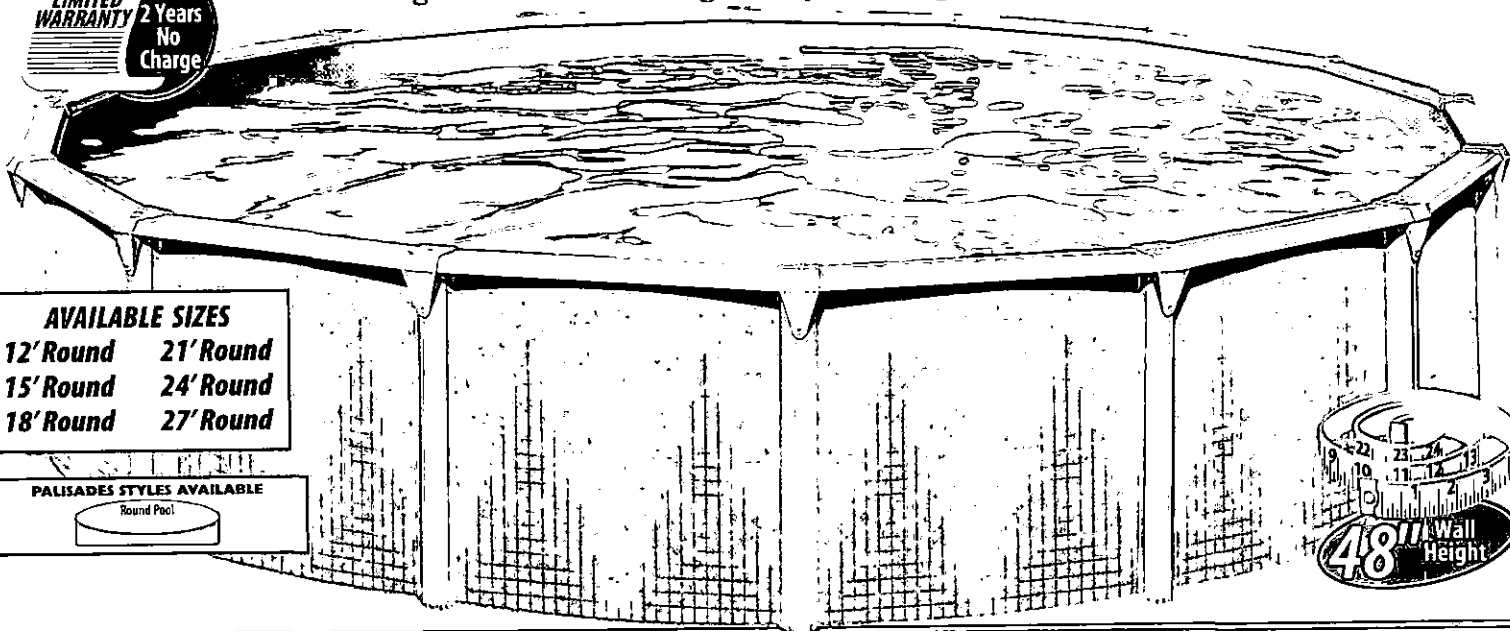
**25**

**YEAR**

**LIMITED WARRANTY**

First 2 Years No Charge

25 Gauge All-Weather™ Virgin Vinyl Overlap Liner



### AVAILABLE SIZES

|           |           |
|-----------|-----------|
| 12' Round | 21' Round |
| 15' Round | 24' Round |
| 18' Round | 27' Round |

### PALISADES STYLES AVAILABLE

Round Pool

# Quantum

|           |                                       |
|-----------|---------------------------------------|
| Wall      | Blue Twill Steel                      |
| Ledges    | 6" Roll-Formed Deluxe Steel           |
| Verticals | 6" Roll-Formed Deluxe Steel           |
| Rails     | Steel Universal Top and Bottom Rails  |
| Cover     | Snap-In Two-Piece Molded Resin        |
| Plates    | Steel Universal Top and Bottom Plates |

## 5 Layer Frame Treatment

### Steel Core

- 1 Copper-Bearing Alloy
- 2 Alkaline-Cleaned G-90 Hot-Dipped Galvanized Coating
- 3 Alkaline-Cleaned Zinc Bonderized Coating
- 4 Chromic Sealant
- 5 All-Weather® Enamel Protective Coating on Both Sides of Frame

## 8 Layer Wall Treatment

### Steel Core

- 1 Copper-Bearing Alloy
- 2 Alkaline-Cleaned G-90 Hot-Dipped Galvanized Coating
- 3 Alkaline-Cleaned Zinc Bonderized Coating
- 4 Chromic Sealant
- 5 Primer Coat
- 6 All-Weather® Enamel Protective Coating
- 7 Printed Pattern
- 8 Exterior Poly-Textured Sealant

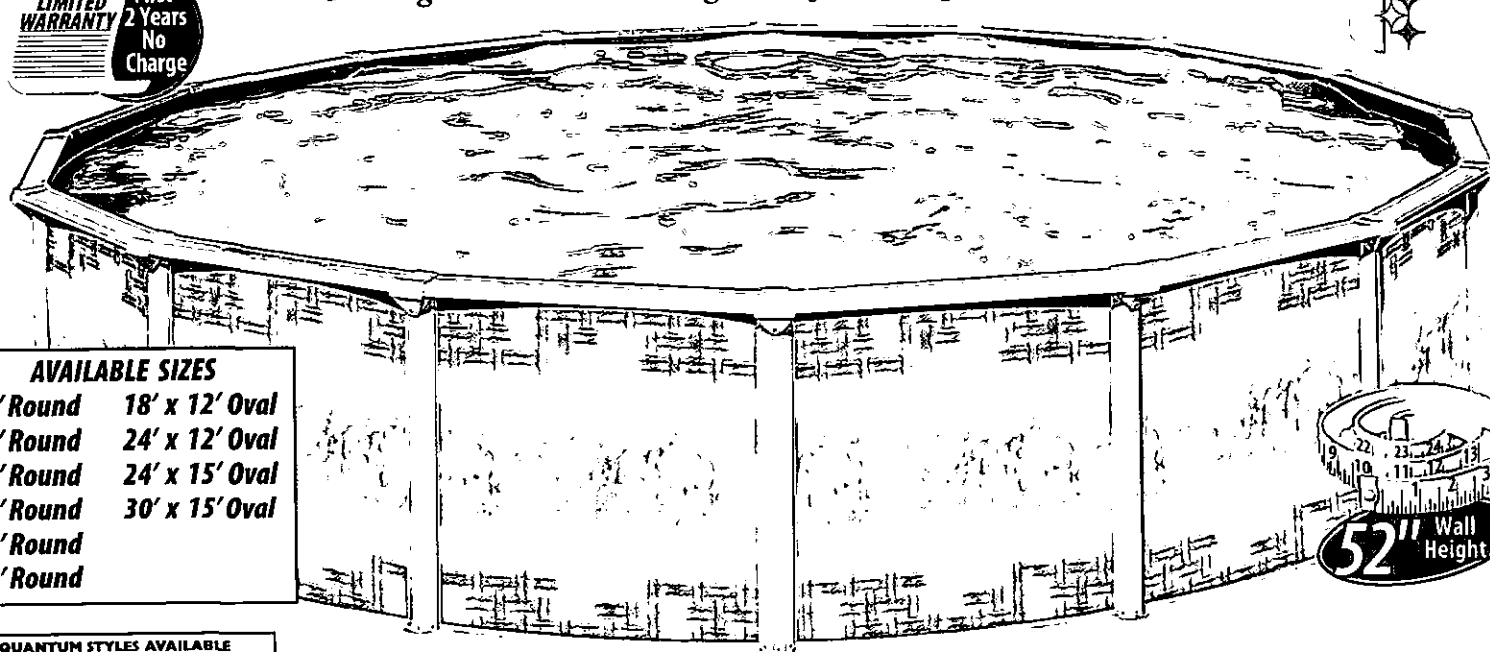
**20**

**YEAR**

**LIMITED WARRANTY**

First 2 Years No Charge

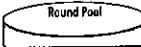
25 Gauge All-Weather™ Virgin Vinyl Overlap Liner



### AVAILABLE SIZES

|           |                |
|-----------|----------------|
| 12' Round | 18' x 12' Oval |
| 15' Round | 24' x 12' Oval |
| 18' Round | 24' x 15' Oval |
| 21' Round | 30' x 15' Oval |
| 24' Round |                |
| 27' Round |                |

### QUANTUM STYLES AVAILABLE



# Inspiration

|           |                                                       |
|-----------|-------------------------------------------------------|
| Wall      | Dune Palm Steel w/Crystex® Coat                       |
| Ledges    | 7" Vinyl Coated Steel                                 |
| Verticals | 6" Deluxe Box Vinyl Coated Steel                      |
| Rails     | 1" Resin-Coated Steel Universal Top and Bottom Rails  |
| Cover     | Two-Piece Full-Contoured Molded Resin                 |
| Plates    | 6" Steel Universal Resin-Coated Top and Bottom Plates |

## 5 Layer Frame Treatment

### Steel Core

- 1 Copper-Bearing Alloy
- 2 Alkaline-Cleaned G-115 Hot-Dipped Galvanized Coating
- 3 Alkaline-Cleaned Zinc Bonderized Coating
- 4 Chromic Sealant
- 5 Textured Vinyl Shield Exterior and Interior Weather Coating



## 8 Layer Wall Treatment

### Steel Core

- 1 Copper-Bearing Alloy
- 2 Alkaline-Cleaned G-115 Hot-Dipped Galvanized Coating
- 3 Alkaline-Cleaned Zinc Bonderized Coating
- 4 Chromic Sealant
- 5 Primer Coat
- 6 All-Weather® Enamel Protective Coating
- 7 Printed Pattern
- 8 Crystex® Coat Textured Weather Sealant

**30 YEAR LIMITED WARRANTY**  
First 2 Years No Charge

25 Gauge All-Weather™ Virgin Vinyl Overlap Liner

### AVAILABLE SIZES

|           |           |
|-----------|-----------|
| 12' Round | 21' Round |
| 15' Round | 24' Round |
| 18' Round | 27' Round |

INSPIRATION STYLE AVAILABLE

Round Pool

52" Wall Height

# Rio Vista

|           |                                                       |
|-----------|-------------------------------------------------------|
| Wall      | Gray Basket Weave Steel with Crystex® Coat            |
| Ledges    | 7" Extruded Resin                                     |
| Verticals | 6" Extruded Resin                                     |
| Rails     | 1" Stainless Steel Bottom Rails                       |
| Cover     | Two-Piece Full-Contoured Molded Resin                 |
| Plates    | 6" Steel Universal Resin-Coated Top and Bottom Plates |

## 8 Layer Wall Treatment

### Steel Core

- 1 Copper-Bearing Alloy
- 2 Alkaline-Cleaned G-115 Hot-Dipped Galvanized Coating
- 3 Alkaline-Cleaned Zinc Bonderized Coating
- 4 Chromic Sealant
- 5 Primer Coat
- 6 All-Weather® Enamel Protective Coating
- 7 Printed Pattern
- 8 Crystex® Coat Textured Weather Sealant



**40 YEAR LIMITED WARRANTY**  
First 3 Years No Charge

25 Gauge All-Weather™ Virgin Vinyl E-Z Hook® Tile Print Liner

### AVAILABLE SIZES

|           |                |
|-----------|----------------|
| 18' Round | 24' x 15' Oval |
| 21' Round | 30' x 15' Oval |
| 24' Round | 33' x 18' Oval |
| 27' Round |                |

RIO VISTA STYLES AVAILABLE

Round Pool

Oval Butress Pool

52" Wall Height



Quality Pools  
Made in  
America

Experience...Quality...Service...Price.....Anything Less Just Won't Do!

# Atlantic Beach

|           |                                                          |
|-----------|----------------------------------------------------------|
| Wall      | Gray Saw Grass Steel with Crystex® Coat                  |
| Ledges    | 7" Vinyl Coated Steel                                    |
| Verticals | 6" Deluxe Box Vinyl Coated Steel                         |
| Rails     | 1" Stainless Steel Bottom Rails                          |
| Cover     | Two-Piece Full-Contoured Molded Resin                    |
| Plates    | 6" Steel Universal Resin-Coated<br>Top and Bottom Plates |

**35 YEAR**  
**LIMITED WARRANTY**  
First 3 Years No Charge

## 5 Layer Frame Treatment

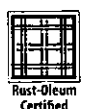
### Steel Core

- 1 Copper-Bearing Alloy
- 2 Alkaline-Cleaned G-115 Hot-Dipped Galvanized Coating
- 3 Alkaline-Cleaned Zinc Bonderized Coating
- 4 Chromic Sealant
- 5 Textured Vinyl Shield Exterior and Interior Weather Coating

## 8 Layer Wall Treatment

### Steel Core

- 1 Copper-Bearing Alloy
- 2 Alkaline-Cleaned G-115 Hot-Dipped Galvanized Coating
- 3 Alkaline-Cleaned Zinc Bonderized Coating
- 4 Chromic Sealant
- 5 Primer Coat
- 6 All-Weather® Enamel Protective Coating
- 7 Printed Pattern
- 8 Crystex® Coat Textured Weather Sealant



25 Gauge All-Weather™ Virgin Vinyl  
E-Z Hook® Tile Print Liner

## design innovations...

Until a few years ago, Swim'n Play, Inc. held the exclusive rights to our revolutionary space saver pool design. Since then, many manufacturers have attempted to duplicate our space saver pool design, but none could improve upon the original. Swim'n Play, Inc.'s space saver pools remain the finest, most durable pools of their kind available today.

One of the advantages of the space saver pool design, is that it eliminates the need for side supports like those found on oval buttress pools, and therefore requires less square footage for installation. The result is a line of beautiful pools designed to fit in almost any backyard, the Lexington Space Saver Oval (page 6), and our most popular pool, the Atlantic Beach Space Saver Oval (this page).

Swim'n Play, Inc. and Branch Brook Company also offer the Atlantic Beach (this page), and the Delmar II (not shown) in a oval non-buttress pool design with a 52" wall height. Sizes for the Atlantic Beach are: 18' x 12', 24' x 12', 24' x 15', 30' x 15', and 33' x 18'. Sizes for the Delmar II are: 24' x 12', 24' x 15', and 30' x 15'.

We also offer some of our more popular models in a buttress-style pool. The buttress pool is available in the following sizes: 18' x 12', 24' x 12', 24' x 15', 30' x 15', 33' x 18', and 45' x 18'.

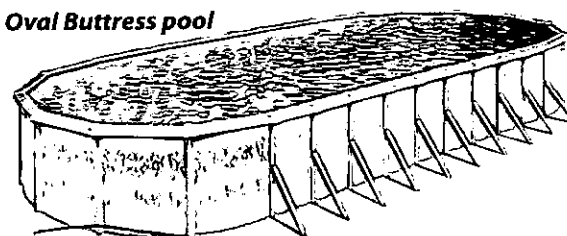
| ATLANTIC BEACH STYLES AVAILABLE |  |  |  |
|---------------------------------|--|--|--|
|                                 |  |  |  |

### AVAILABLE SIZES

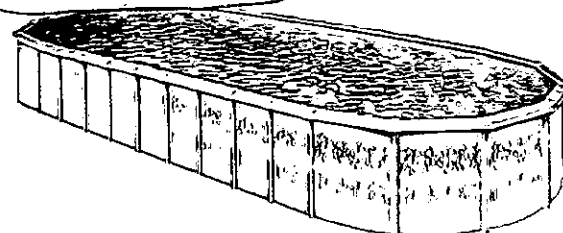
|           |                |               |              |
|-----------|----------------|---------------|--------------|
| 12' Round | 18' x 12' Oval | 15' x 10' SSO | 18' x 12' NB |
| 15' Round | 24' x 12' Oval | 18' x 12' SSO | 24' x 12' NB |
| 18' Round | 24' x 15' Oval | 21' x 15' SSO | 24' x 15' NB |
| 21' Round | 30' x 15' Oval | 24' x 18' SSO | 30' x 15' NB |
| 24' Round | 33' x 18' Oval |               | 33' x 18' NB |
| 27' Round | 45' x 18' Oval |               |              |

SSO Indicates - Space Saver Oval  
NB Indicates - Oval Non-Buttress

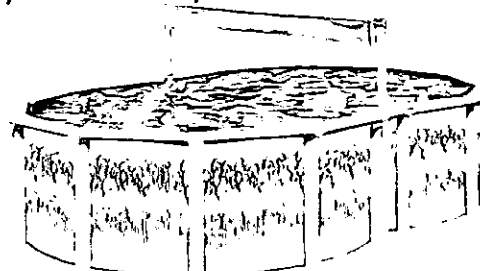
Oval Buttress pool



Oval Non-Buttress pool



Space Saver Oval pool



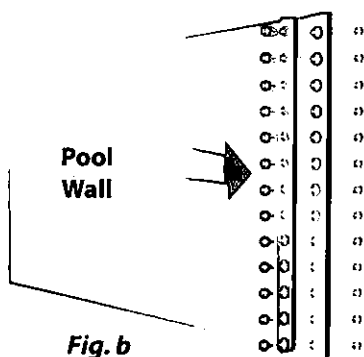
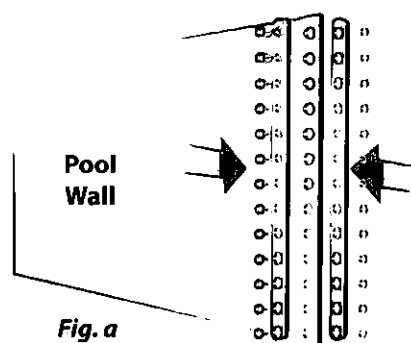
# It's what you don't see that makes a features...

## Patented Four-Bar Wall Closure

The greatest stress on any above-ground pool occurs at the wall joint. A weak wall joint will compromise the strength and stability of the pool wall, and is likely to cause damage to the pool over time.

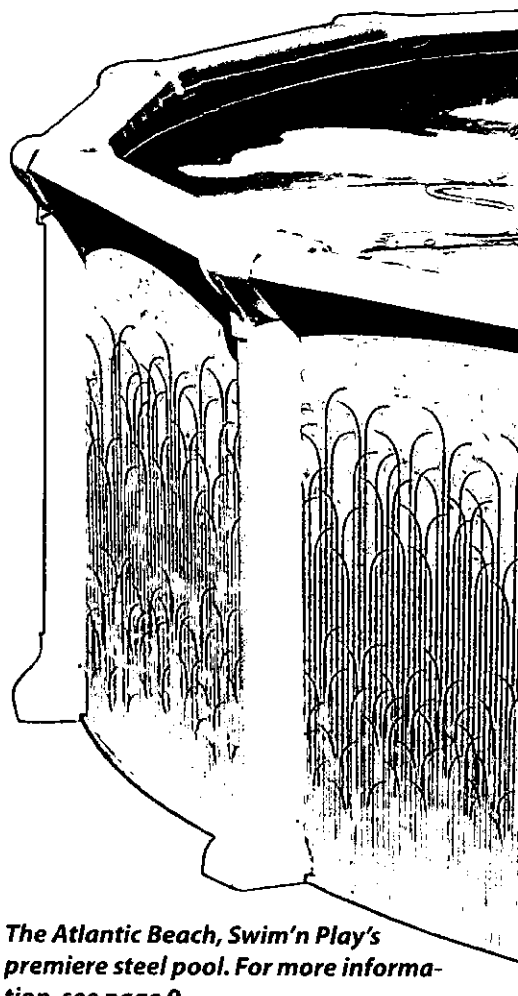
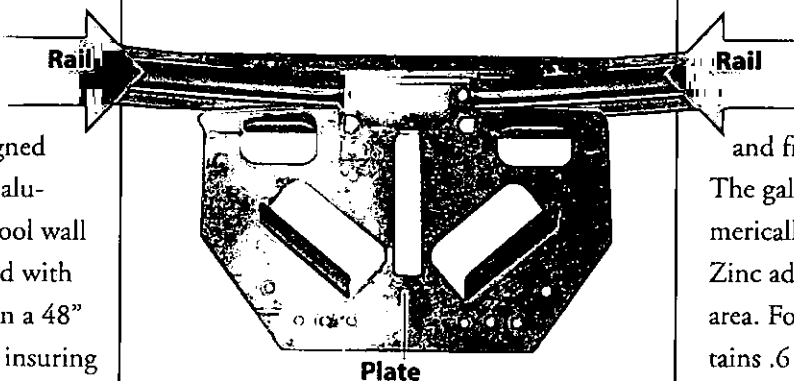
All Swim'n Play, Inc. pools feature our patented Four Bar Wall Closure (U.S. Patent #4223498). This exclusively designed closure system uses two extruded aluminum bars on each end of the pool wall (fig. a). The closure is then secured with 27 strategically positioned bolts on a 48" pool, and 31 bolts on a 52" pool, insuring proper assembly and maximum stability.

In comparison, most pool manufacturers use only one bar on each end of the pool wall (fig. b) and 25 bolts to form the wall joint.



## Universal Top and Bottom Rails

All Swim'n Play, Inc. pools feature rectangular top and bottom rails which fit securely into the upper and lower vertical plates, forming an extremely sturdy Posi-Lock construction.

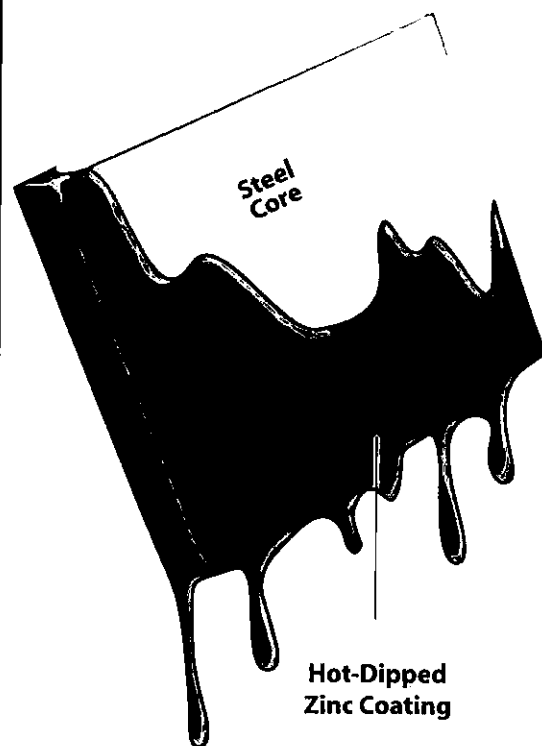


*The Atlantic Beach, Swim'n Play's premiere steel pool. For more information, see page 9.*

## Galvanization

Galvanization is a process in which our steel pools are Hot-Dipped with a protective coating of Zinc. Zinc is a useful rust-proofing element due to its unusual ability to bleed into a scratch on any steel surface, protecting the raw steel from oxidization. The amount of Zinc applied to pool walls and frames varies from pool to pool.

The galvanization treatment is rated numerically according to the amount of Zinc added to each square foot of surface area. For example, a G-60 rated pool contains .6 ounces of Zinc per square foot; a G-90 rated pool contains .9 ounces of Zinc per square foot. All pools sold by Branch Brook Company have at least a G-90 rating, and many of our models boast a G-115 rating (one of the highest ratings in the pool industry), containing 1.15 ounces of Zinc per square foot.



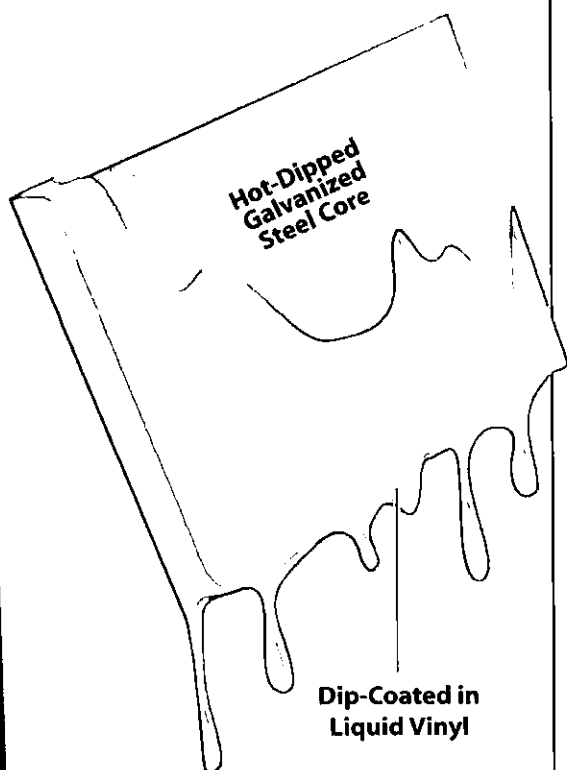
*Experience... Quality... Service... Price.....Anything Less Just Won't Do!*

# Branch Brook pool last! And last!

Designed for durability to offer you years of trouble-free use, enjoyment and fun...

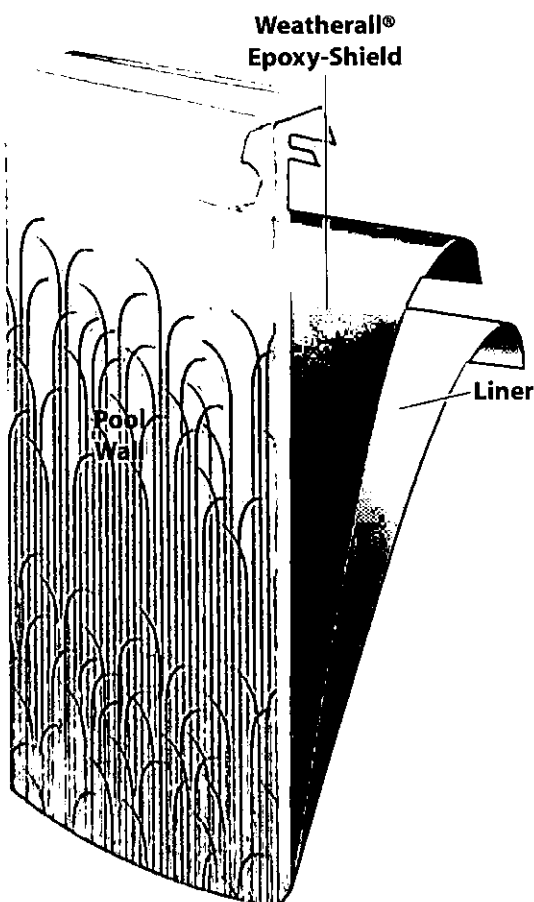
## The Vinyl Shield

Unlike vinyl laminate, which is bonded to the steel in adhesive sheets, the vinyl shield utilizes a process in which the galvanized steel frame is Dip-Coated in liquid vinyl material, providing a tougher, more permanent adhesion to the steel surface. Tests have shown that vinyl laminate does not hold up as well as the vinyl shield under tough weather conditions. Also, the vinyl shield does not discolor, tear, or wear like the inferior vinyl laminate.



## Weatherall® Epoxy-Shield

The surface area between the pool liner and the interior pool wall is especially susceptible to high humidity and trapped condensation, which can lead to rust. Swim'n Play, Inc. and Branch Brook Company have made this problem area a thing of the past with the introduction of the Weatherall® Epoxy-Shield. This revolutionary sealed polyester interior wall backing is adhered to the interior surface of the pool wall where it acts as a moisture barrier between the pool liner and the vulnerable steel of the wall, providing additional protection against rust and prolonging the life of your pool. Be sure to ask your Branch Brook Company Sales Representative which pools are available with this option.



## Copper-Bearing Steel

All Branch Brook Company and Swim'n Play, Inc. steel pools are treated with copper-bearing alloy prior to any other treatment. Adding molten copper to the steel core provides extra protection against rust.



## Rust-Oleum Seal of Approval

Swim'n Play, Inc. is the only manufacturer in the world with a Certified Seal of Approval from the Rust-Oleum Corporation. The protective coatings used on Swim'n Play, Inc. pools have met and exceeded the quality standards set by Rust-Oleum for unsurpassed durability in almost all weather conditions.



# Year's of design & development have

## features...

**Below are a few terms to familiarize yourself with when determining which type of pool liner best suits your needs**

### **Gauge (or Mil)**

Refers to the thickness of the liner. Pool liner gauges/mils are rated numerically; the higher a liners gauge or mil, the thicker and more durable the liner.

### **Cold Crack**

The degree of temperature a pool liner can withstand without becoming brittle.

### **All-Weather™**

Refers to pool liners which have a Cold Crack rating of at least minus 40 degrees.

### **Virgin Vinyl**

Refers to pool liners which have been manufactured without the use of reprocessed vinyl. Virgin Vinyl pool liners are stronger and will last longer than those containing reprocessed vinyl.

### **Winterized Liner**

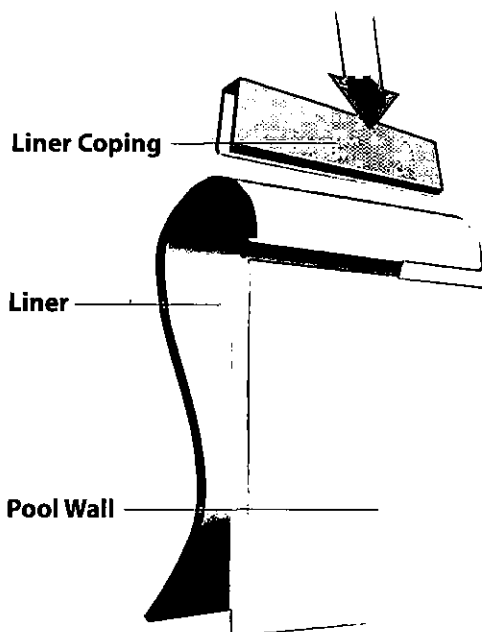
Refers to liners which may only have a Cold Crack rating of zero to minus 20 degrees. Winterized Liners may also contain reprocessed vinyl.

### **Reflection Liner**

Refers to a specially designed 25 gauge liner, exclusively offered by Branch Brook Company. Combining the strength and integrity of 25 gauge All-Weather™ material with a uniquely reflective surface, the Reflection Liner casts back sunlight into your pool water, giving the entire pool a pleasant radiant glow. This liner is offered in the overlap design only.

## **Overlap Liners**

The most common type of pool liner on the market, the overlap liner overlaps the pool wall and is secured in place by a sectioned coping which is snapped over the liner onto the pool wall.

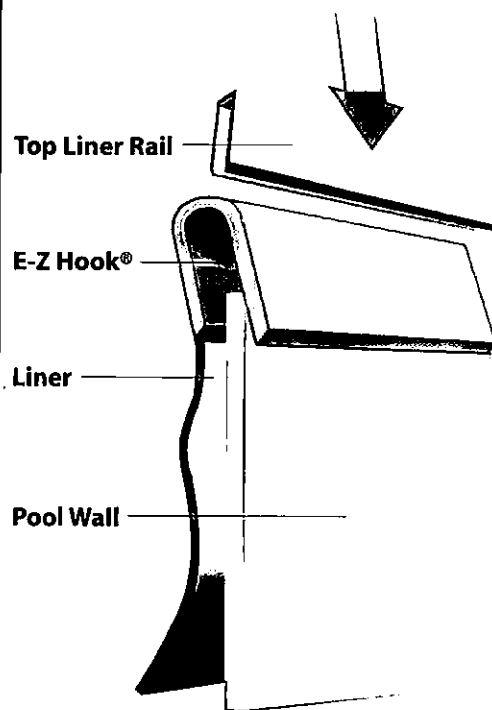


## **Heat Sealed or Welded Seams**

The seams of all liners sold at Branch Brook Company are either heat sealed or sealed using state-of-the-art High Frequency Welding. The heat sealing method is excellent, but the High Frequency Welding method actually fuses two pieces of vinyl into one, creating a flawless seam. High Frequency Welded seams are available on our 25 gauge E-Z Hook® tile print liners as well as many overlap liners.

## **E-Z Hook® Liner**

Branch Brook Company and Swim'n Play introduces our new E-Z Hook® Liner, which is becoming our most preferred liner. The E-Z Hook® Liner is made with a heavy hook formed at the top of the liner to snap over the pool wall. The great advantage to using the E-Z Hook® Liner is it allows you to have a level liner appearance inside the pool, also there are no unsightly overhangs on the outside of the pool. For additional information be sure to ask your Sales Representative, plus ask which pool models are available with the E-Z Hook® Liner.



**No matter which 48" or 52" pool you purchase from Branch Brook Company, you will always receive a top-quality All-Weather™ pool liner.**



*Experience...Quality...Service...Price.....Anything Less Just Won't Do!*

# gone into every pool we sell!

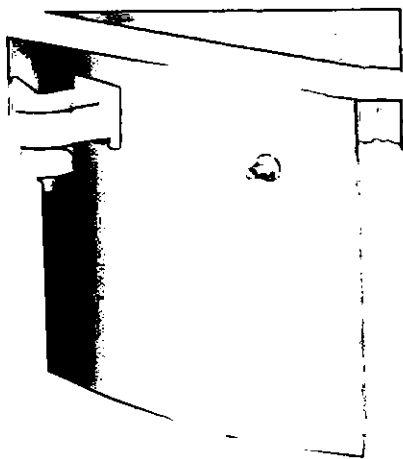


## Stainless Steel Panel

Featured on selected Swim'n Play, Inc. steel pools is the stainless steel panel. There are other stainless steel panels on the market, many are only 33 inches long, and create an unsightly bolted seam up the center of the pool wall. Our Lifetime Warrantied stainless steel panel is long enough that the bolted seams are located beneath the verticals, lending the pool a more attractive appearance.

## Why Use a Stainless Steel Panel?

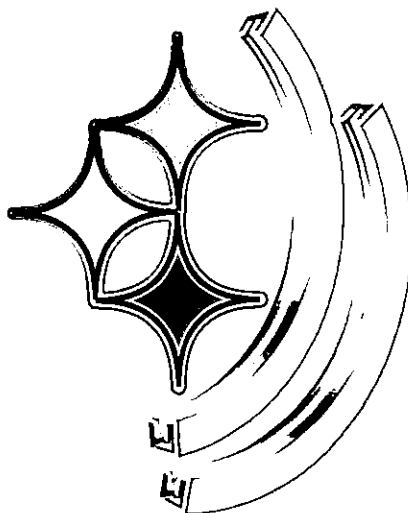
During our many years manufacturing and selling above-ground pools, we have discovered that problems sometimes arise in the area of the thru-the-wall skimmer. The steel in this area is cut to facilitate the placement of the skimmer, and the exposed raw steel is vulnerable to rust. By using a stainless steel panel (which is rust-resistant) in the area of the thru-the-wall skimmer, we have eliminated this problem. It does cost a bit more to provide this extra protection to the pool, but we at Branch Brook Company and Swim'n Play, Inc. have always strived to improve the quality of our products and provide our customers with the very best value for their hard-earned money.



## Stainless Steel Bottom Rails

Available on select Swim'n Play, Inc. steel pools is a full set of stainless steel bottom rails. The bottom rails are the greatest point of wear sitting on the ground and always exposed to the moisture of the dirt or sand, splashed pool water and the weather. This is why on some select pools we offer stainless steel bottom rails giving you the maximum protection from rust and greatly prolonging the life of both the rails and the pool wall.

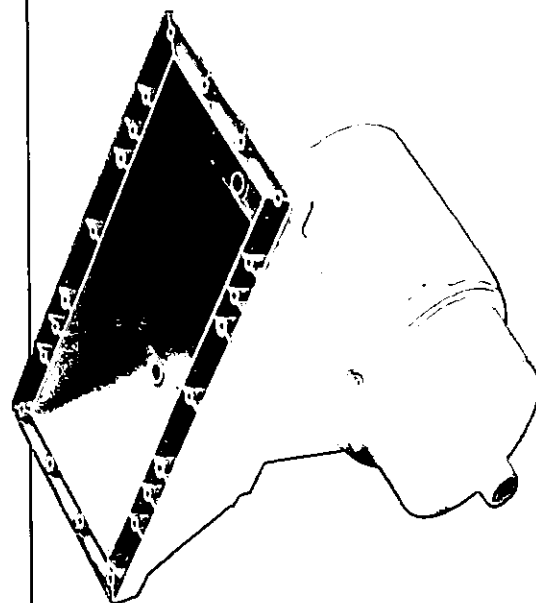
Be sure to ask your Branch Brook Company Sales Representative which pools are available with the stainless steel bottom rail option.



*By using rust-resistant materials such as Stainless Steel in pool manufacture, Swim'n Play, Inc. and Branch Brook Company insure their customers get an incredibly durable pool.*

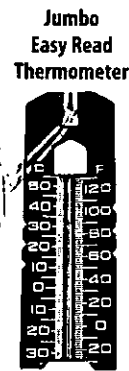
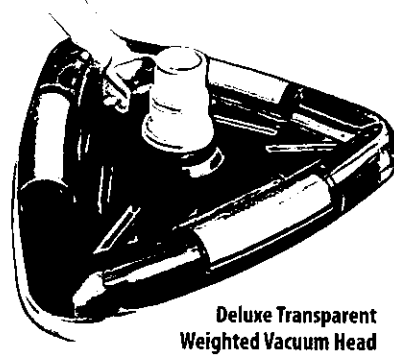
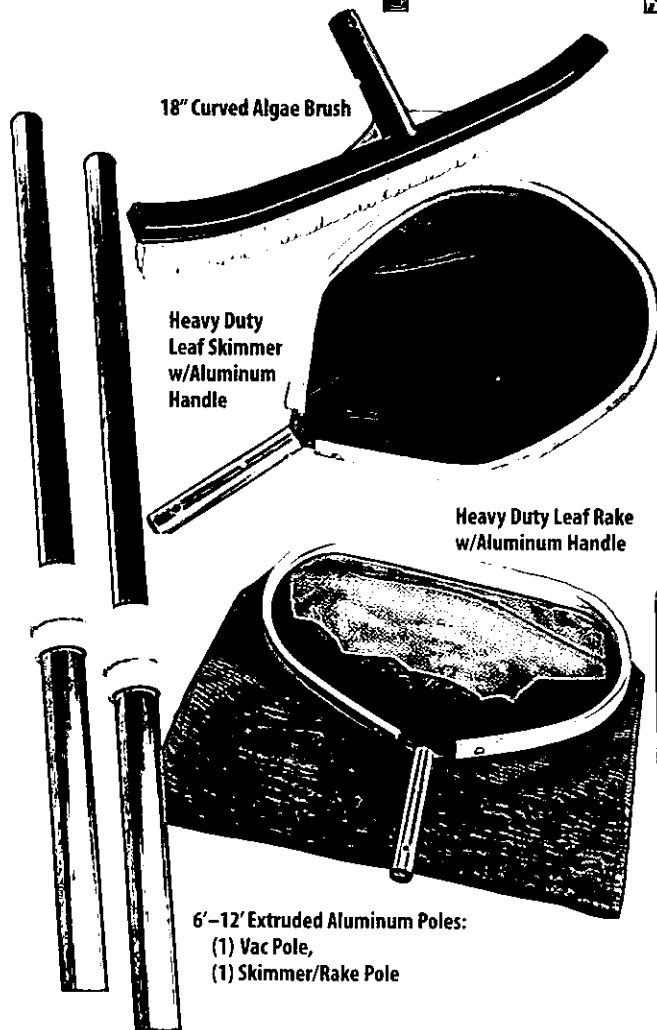
## Optional Wide-Mouth Skimmer

Swim'n Play, Inc. and Branch Brook Company offer an optional Wide-Mouth Skimmer on all our pool models. The larger opening in the Wide-Mouth Skimmer makes it possible to remove more debris in less time than with traditional skimmers.



# deluxe pool package

All items listed are included in Our Deluxe Pool Package.



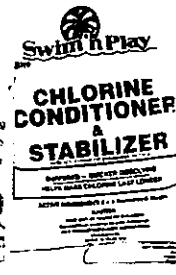
15,000 Gallon  
Chemical Kit  
Contents—

1 qt.—30%  
Algaecide

2 lbs.—  
Dichlor  
Shock



Test Strips



4 lbs.—Chlorine Stabilizer

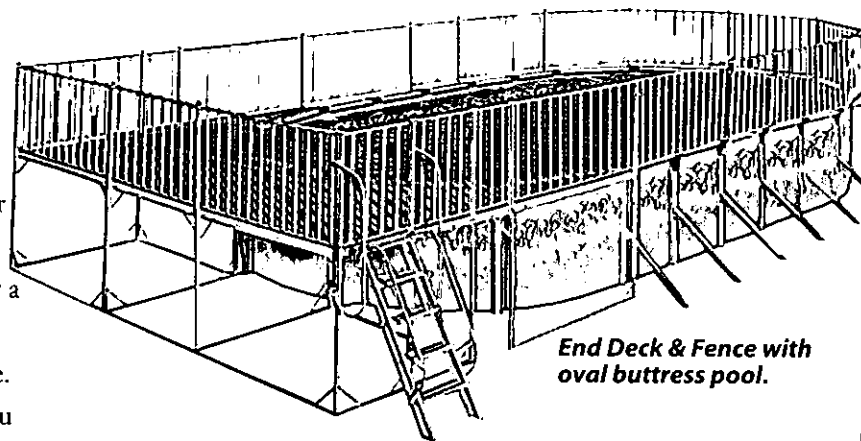


4 lbs.—pH Plus

## deck & fence

### Aluminum Deck & Fence

Imagine lounging at the poolside with a cool drink on a hot summer day, watching your children splash playfully in your new above-ground pool, knowing you're mere steps away from joining them for a refreshing dip. With an extruded aluminum deck and fence from Branch Brook Company, you can lead this kind of luxurious lifestyle. Even better, you can add a deck and fence to your pool whenever you like. Your Branch Brook Company Sales Representative can help you determine which deck and fence style is right for your pool, and tell you about the special pool and deck packages we have to offer. Whether you decide to add a deck and fence to your pool at the time of purchase, or years down the road, you will receive the same top-quality product and professional service you have come to expect from Branch Brook Company.



All decks and fences sold by Branch Brook Company are welded extruded aluminum, making them extremely durable and impervious to rust, and the modular, free-standing design makes them easy to assemble. All decks feature extruded aluminum out-ladders and a self-latching safety gate. Deck packages are available with a 36-inch high extruded aluminum fence which surrounds both the pool and deck areas for added safety and security. Our fence design features triangular pickets for maximum strength. Durable indoor/outdoor carpeting is available on all our decks. A Deluxe All-Resin In-Ladder is included with the purchase of an End Deck, Fan Deck, or Side Deck.



*Experience...Quality...Service...Price.....Anything Less Just Won't Do!*

Deluxe Wide Mouth Wall Skimmer

Return Inlet

30 Foot x 1 1/2" Extruded Cuffed End Vacuum Hose

Vacuum Plate w/Hose Adapter

Stainless Steel Clamps (2)

3 Foot Hose Connector for Chlorinator or Eco Springs

Available in Pool Package 403

In-Line Automatic Chlorinator

Jumbo Tabs

Eco Springs

E-Z Tabs

Available in Pool Package 404

Resin A-Frame Ladder

## design options

Illustration shows some of the different deck and fence configurations available from Branch Brook Company.

5-Piece Fan Deck Combination

End Deck Combination

3-Piece Fan Deck Combination

Free Standing Deck

2-Piece Deck

Side Deck

# entry systems

## Swim'n Play A-Frame Ladder

This sturdy all-resin A-Frame ladder features removable steps, handrails, and is covered by a 5-year Limited Warranty. Available on pools with either a 48-inch or 52-inch wall height. (fig. a)

## Easy Entry Step

Large four step all resin staircase supports more than 350 lbs. Two sturdy, contoured handrails and non-slip step surfaces make it easier to exit the pool. This stair is for in-pool use only. Attaches to any deck. Fits 48-inch to 54-inch wall height pools. (fig. b)

## Enclosure Entry System

The big brother of In-Pool Stairs, the Pool Entry System is a free-standing modular unit that is an extremely sturdy staircase for your pool. The all resin construction is not susceptible to rust or corrosion, and will not affect water chemistry. Ventilated construction allows water to circulate through the unit, preventing algae growth. The stair treads have been designed with a non-slip surface. The entry gate is self-closing and self-locking. (fig. c)

## Smart Choice System

The entry side safety steps that "Lift-off". Fully adjustable legs level for safer entry. Extra high rails provide for a more convenient, stable hand placement. Water side steps are 36" wide and 10" deep for easier entry into pool. (fig. d)

## Extruded Aluminum Decks

You may choose from many different sizes and styles of decks to accompany your new Branch Brook Company Pool. All decks are free standing and fashioned from sturdy extruded aluminum, insuring their continuing strength and stability for years to come.

For more information on your deck options, please refer to page 15 of this catalog. The 3-foot x 5-foot deck is shown. (fig. e)

**Branch Brook Company offers a variety of entry systems designed to insure the safety of your swimmers as well as the security of your pool.**

Fig. b

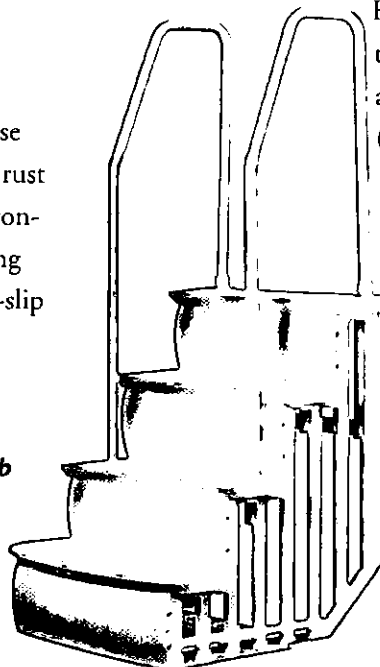


Fig. a

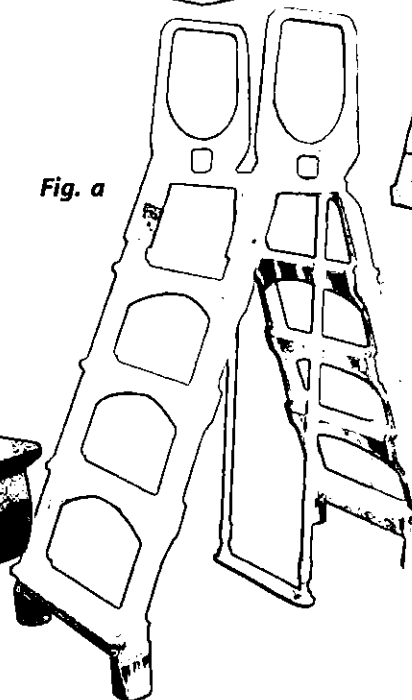


Fig. d

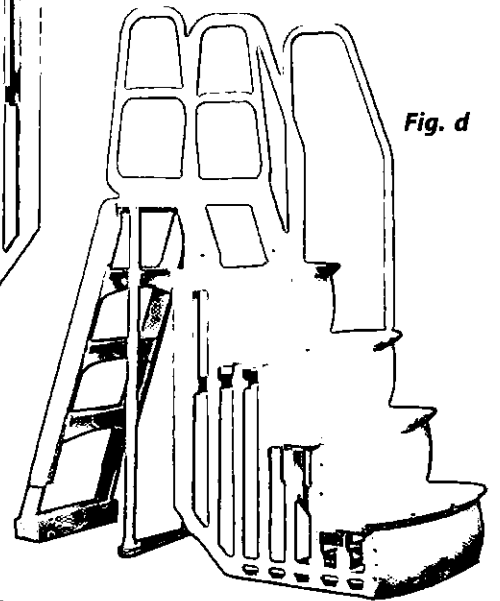


Fig. c

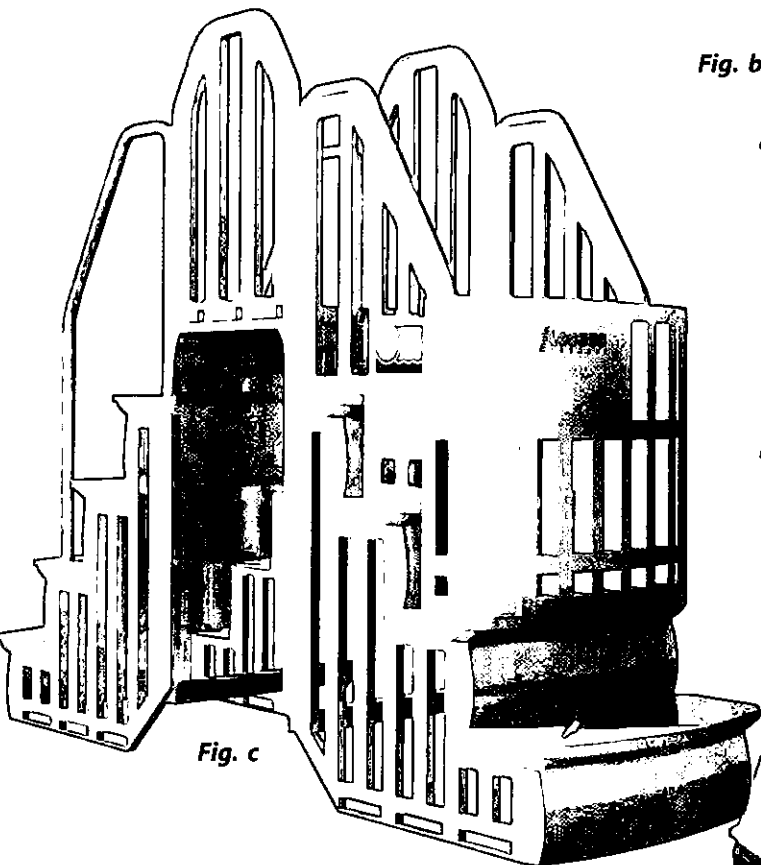
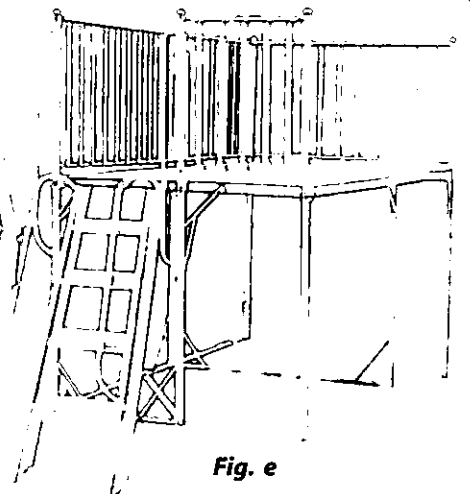


Fig. e



*Experience...Quality...Service...Price.....Anything Less Just Won't Do!*



Ask About The Filter Service



# filters

## Swim'n Play CM75 Cellular Media Filter

75 Square Foot  
Cellular Media  
Filter with Base  
1 HP / 1 Speed Pump & Motor  
3000 GPH Flow Rate  
8-Hour Turnover of 24,000 Gallons

## Swim'n Play CM1002 Cellular Media Filter

100 Square Foot  
Cellular Media  
Filter with Base  
1.5 HP / 2-Speed Pump & Motor  
3600 Gallons Per Hour Flow Rate  
8-Hour Turnover\* of 28,800 Gallons

## Swim'n Play CM1502 Cellular Media Filter

150 Square Foot  
Cellular Media  
Filter with Base  
2 HP / 2-Speed Pump & Motor  
4200 Gallons Per Hour Flow Rate  
8-Hour Turnover\* of 33,600 Gallons

*Branch Brook Company carries a full line of D.E., sand, and cellular media filters from the leading manufacturers like those featured on this page, as well as many others.*

## Swim'n Play WW161 16-Inch Sand Filter

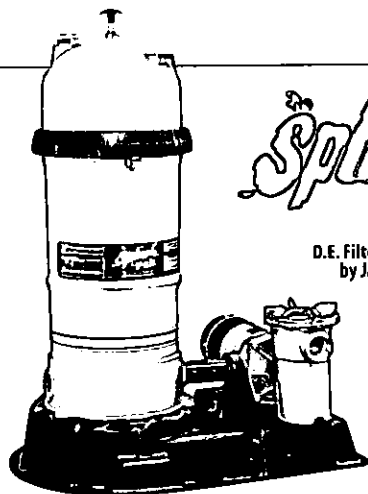
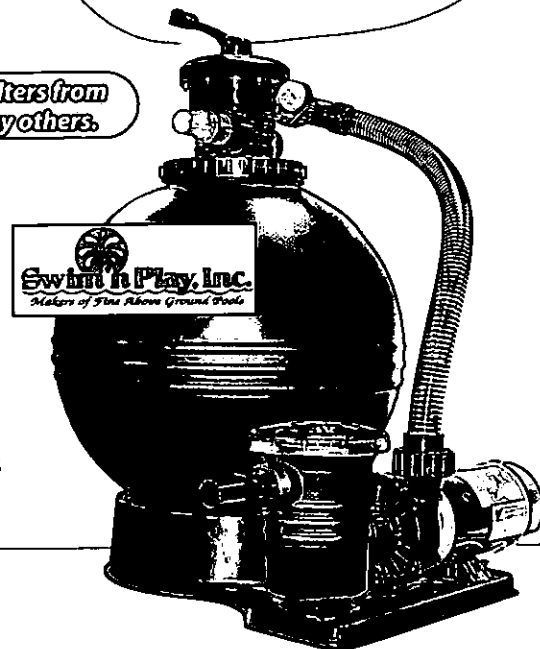
Resin Tank & Base  
1 HP / 1 Speed Pump & Motor  
6-Way Valve  
2100 Gallons Per Hour Flow Rate  
8-Hour Turnover of 16,800 Gallons

## Swim'n Play WW192 19-Inch Sand Filter

Resin Tank & Base  
1.5 HP / 2 Speed Pump & Motor  
6-Way Valve  
2700 Gallons Per Hour Flow Rate  
8-Hour Turnover\* of 21,600 Gallons

## Swim'n Play WW222 22-Inch Sand Filter

Resin Tank & Base  
2 HP / 2 Speed Pump & Motor  
6-Way Valve  
3300 Gallons Per Hour Flow Rate  
8-Hour Turnover\* of 26,400 Gallons



D.E. Filter System  
by Jacuzzi

## Jacuzzi Splash SPL2402 DE Filter

Resin Tank & Base  
1.5 Horsepower / 2 Speed Pump & Motor  
3000 Gallons Per Hour Flow Rate  
8-Hour Turnover\* of 24,000 Gallons

## Jacuzzi Splash SPL2752 DE Filter

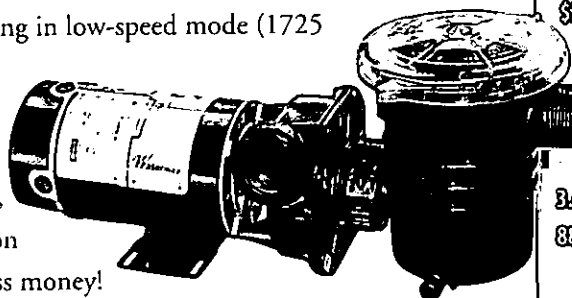
Resin Tank & Base  
2 Horsepower / 2 Speed Pump & Motor  
4200 Gallons Per Hour Flow Rate  
8-Hour Turnover\* of 33,600 Gallons

\*Indicates Operation in  
High-Speed Mode

# 2-speed pumps

**You can now customize your filter operation and save money!**

Use high speed for vacuuming, water problems, and adding chemicals, or switch to low speed for continuous filtration and circulation. Normal pumps run only at high speed (3450 RPM), drawing 1903 watts. By running in low-speed mode (1725 RPM) and drawing only 334 watts, two-speed pumps can save up to 55% off electrical costs. Two-speed pumps are designed for continuous filtration; this improved filtration and circulation, also reduces the chemical costs by cutting down on chemical usage. The result is a cleaner pool for less money!



## Energy Cost Comparison

### Single Speed Pump Running for 10 Hours

1903 watts = 20.9 cents per hour\*  
20.9 cents per hour x 10 hours = \$2.09 per day  
\$2.09 per day x 30 days = \$62.70 per month

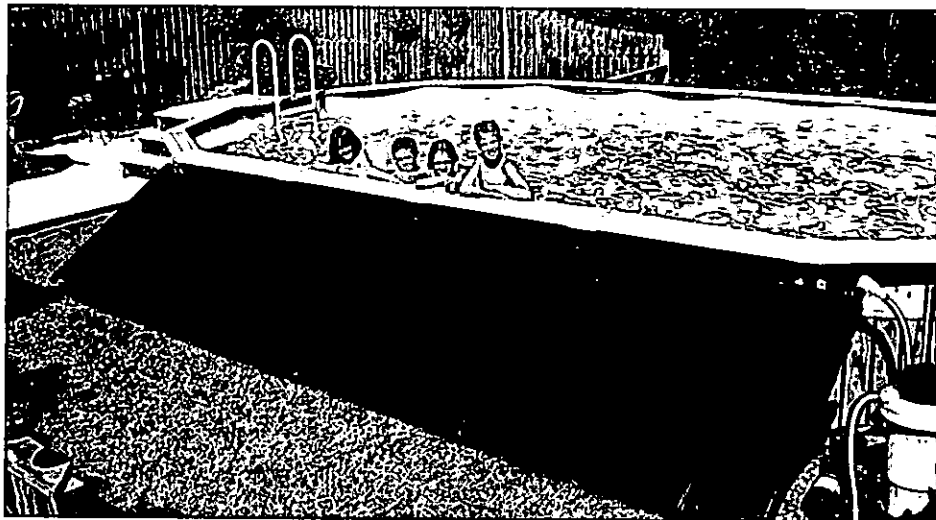
### Two-Speed Pump Running for 24 Hours (on Low)

334 watts = 3.67 cents per hour\*  
3.67 cents per hour x 24 hours = 88¢ per day  
88¢ per day x 30 days = \$26.40 per month

**Savings = \$36.30 per Month**

# heating systems

**Branch Brook Company offers a variety of heating systems to make your pool experience enjoyable.**

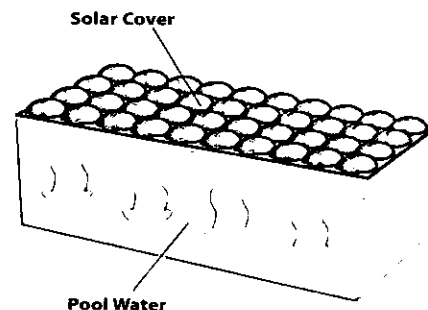


## Solar Heating System

Put the power of the sun to work for you! The solar panel pool heaters use your pool's existing pool pump to circulate water through a solar collector to heat your pool. You can see the black rectangular shape (photo to left) of the solar collector lying beside the pool as shown. Now you can enjoy a warm dip in your pool whenever you like while saving on energy costs at the same time!

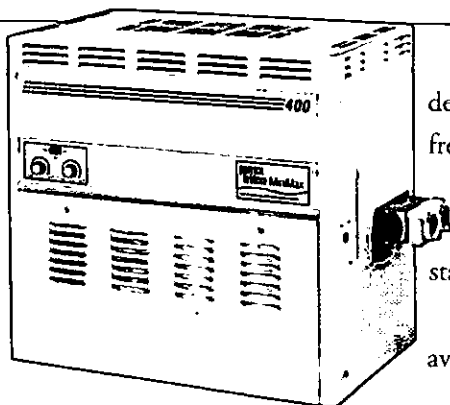
## Solar Covers

The solar cover is an expanse of durable plastic material covered with small air bubbles which you pull across the surface of your pool. The air within the bubbles is then superheated by the sun's rays, and the captured heat is, in turn, radiated into the pool water. The plastic material of the cover also helps keep the heat from escaping. A properly used solar cover can raise the water temperature 8 to 10 degrees! All covers are cut to fit various pool sizes, eliminating the need for trimming. Available in round, oval, and rectangular sizes.



## MiniMax™ Plus Heater

Don't let a little chill in the air stop you from enjoying that early-morning or late-night swim. PacFab Inc.'s MiniMax™ Plus heaters utilize the most advanced heating technology available to provide the latest in comfort, efficiency and durability. PacFab's stainless steel burners

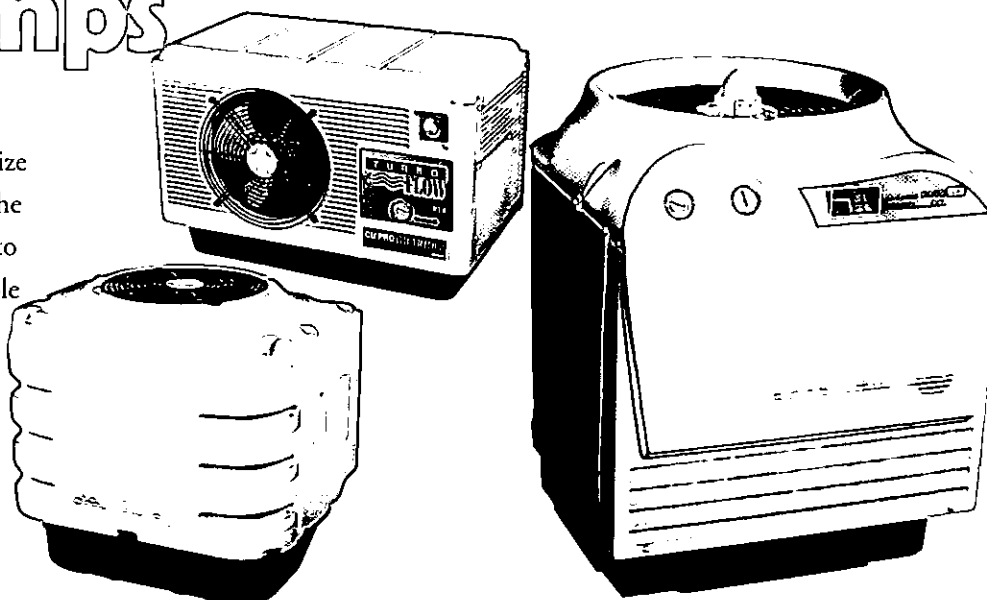


deliver even flame distribution and long lasting, corrosion-free operation. Patented Bronze Inverted Header and Quick-Flange allows direct PVC pipe connection and eliminates the need for costly heat sinks. Also, with the balanced flue stackless top, there is no need for high wind stacks.

The new MiniMax™ Plus 100M and other sizes are now available at an affordable price.

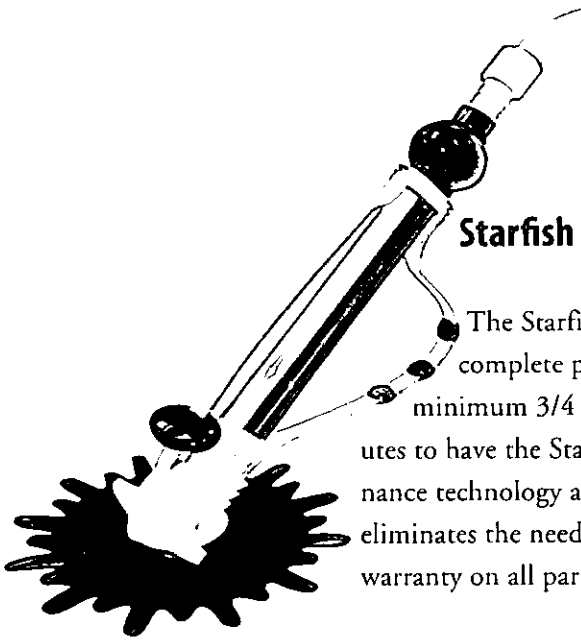
# heating pumps

Branch Brook Company now carries a line of heat pumps for your above ground pools. The heaters utilize the free heat from the ambient air and transfer it to the water. These heat pumps are simple and economical to operate. Easy installation and servicing using accessible electrical controls, maintenance-free, economical and environmentally friendly.



*Experience...Quality...Service...Price.....Anything Less Just Won't Do!*

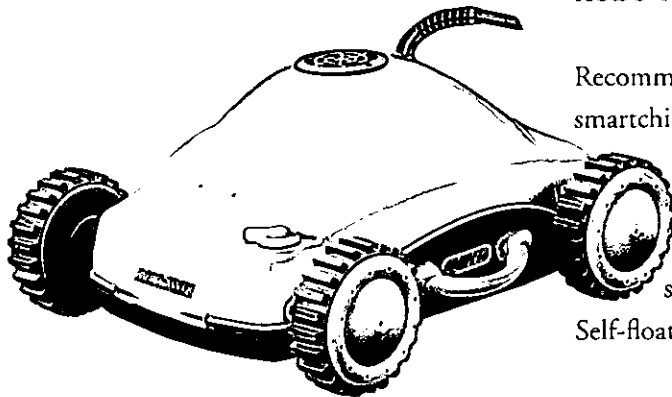
# pool cleaners



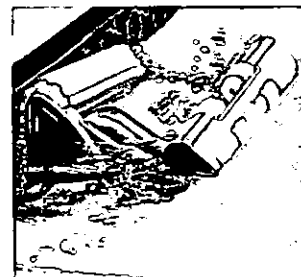
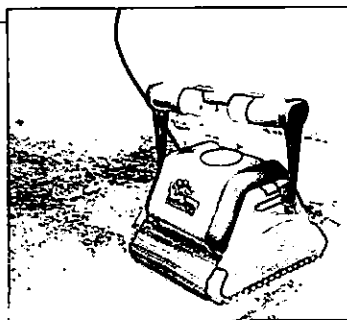
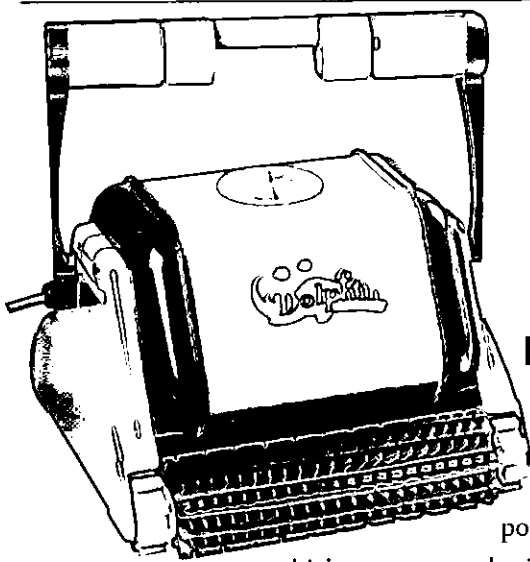
## Starfish – Automatic Above-Ground Pool Cleaner

The Starfish Automatic Pool Cleaner takes the work out of pool maintenance. It's a complete pool cleaner, using the filtration system of your pool. The Starfish requires a minimum 3/4 hp pump to function properly. Hassle free assembly takes less than 15 minutes to have the Starfish at work in your pool. The Starfish combines the best of pool maintenance technology and convenience. The Starfish comes with a water-flow regulator which eliminates the need for manual adjustment. The Starfish is covered by a one-year manufacturer's warranty on all parts.

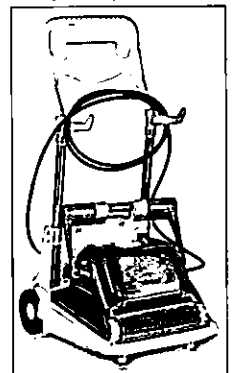
## Robo-Kleen – Robotic Pool Cleaner for Above-Ground Pools



Recommended for pools up to 31' round or 21' x 41 oval. Has a self-monitoring smartchip to ensure the most comprehensive cleaning coverage. Operates independently of pool pump and filter. No installation required. Automatic shut-off after 3 hours. Uses a low voltage brushless pump motor which costs pennies to operate. Direct drive motor. Microfilters water with a self-contained reusable filter bag which removes most algae and bacteria. Self-floating 40' cable.



Dolphin on a Carry Caddy



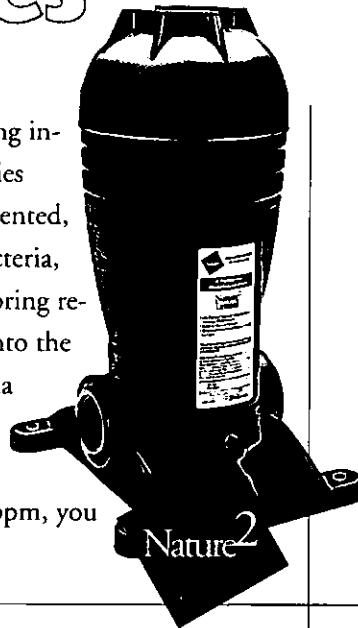
## Dolphin – Multi-Cleaning System for In-Ground Pools

The Dolphin scrubs and vacuums your entire pool bottom, walls and waterline. It's like adding another filter to your pool. Great for pools up to 25'x40'. Self-contained 1200 sq. inch reusable filter bag which vacuums and microfilters water. Dolphin operates independently of pool pump and filter. Has an automatic shut-off, after 6 hours of use, and has self-monitoring diagnostic software. The unit weight is 21 lbs. without cable or transformer. Comes with a 65' self-floating cable. No installation required.

# accessories

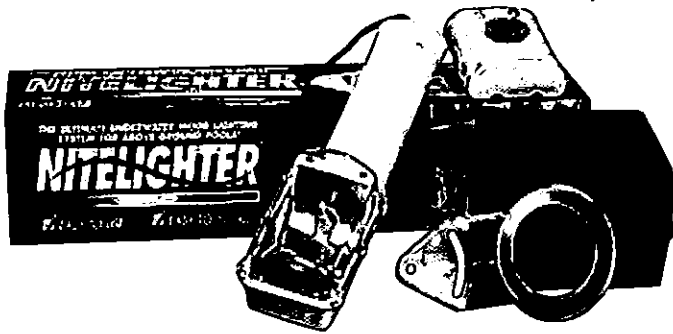
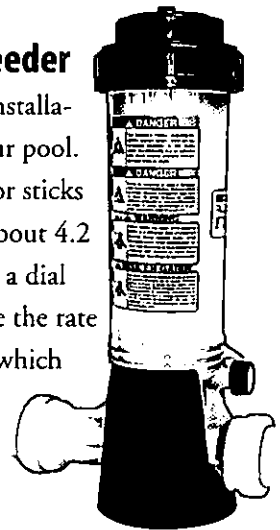
## Eco Spring System

The natural alternative to chlorine. Working in-line with your pool filter, Eco Spring purifies your pool by directing water through a patented, coated ceramic mineral bed which kills bacteria, algae, and viruses on contact. Next, Eco Spring releases trace amounts of silver and copper into the pool to help prevent growth of new bacteria and algae. A small amount of chlorine must still be added to your pool water, but at the recommended chlorine level of 0.4 ppm, you won't feel, smell or be affected by chlorine.



## Automatic Chlorine Feeder

This feeder is designed for installation in the return line to your pool. It uses slow-dissolve tablets or sticks only. It holds 9 large 3" or about 4.2 lbs. of small tablets. There is a dial type control valve to regulate the rate of water through the feeder which makes it easy to adjust the chlorine feed rate.



## Nitelighter—underwater lighting system

Why limit the enjoyment of your above ground pool to the daylight hours? With the Nitelighter Pool Light, you and your family can enjoy a refreshing swim whenever you like. The Nitelighter Pool Light requires no drilling or draining of the pool to install. UL Approved.

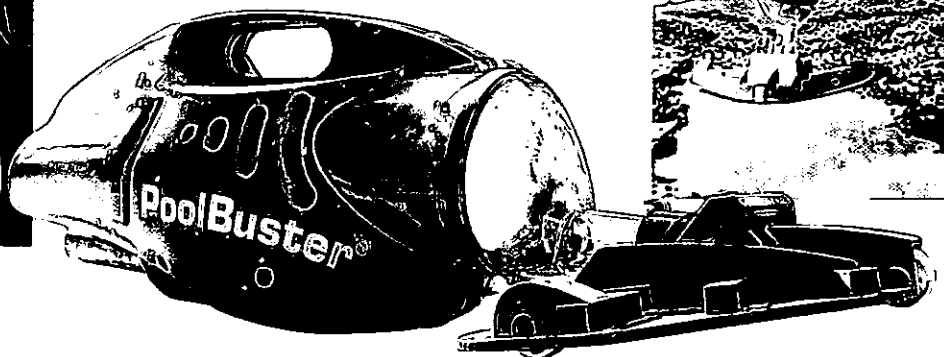
## Pro A Plus—mineral sanitizer and chlorine dispenser

The Pro A Plus works automatically with your pool's filtration system reducing the potential for stinging eyes, skin irritation and unpleasant odors. Pro A Plus uses a regulator dial that controls the amount of chlorine dispensed, providing precision metering and lower levels of chlorine. The Nature<sup>2</sup> mineral technology keeps your pool crystal clear destroying bacteria and algae growth. The mineral sanitizer uses a cartridge, and the chlorine dispenser uses tablets.



## PoolBuster—the world's first underwater vacuum cleaner

The PoolBuster brings the simplicity of a home vacuum cleaner to your backyard pool. The world's first rechargeable battery powered self-contained underwater pool vacuum cleaner. PoolBuster cleans independently with no bulky hoses, and has a large see-through dirt container with a reusable fine filter bag for easy cleaning. Connect the PoolBuster to your telescopic pool pole and your ready to clean. Vacuum debris, leaves and algae from your entire pool. Cleans 40 to 50 gallons per minute. Operates for 1 hour on its rechargeable battery and works in all pools, even spas.

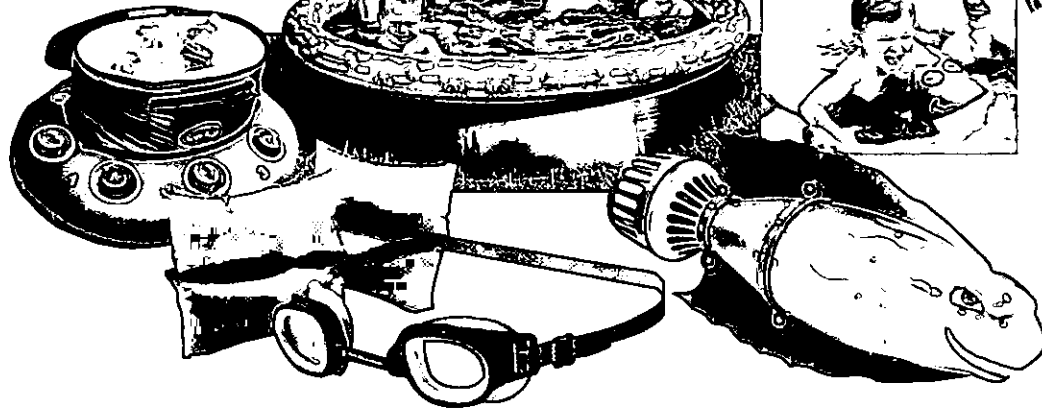
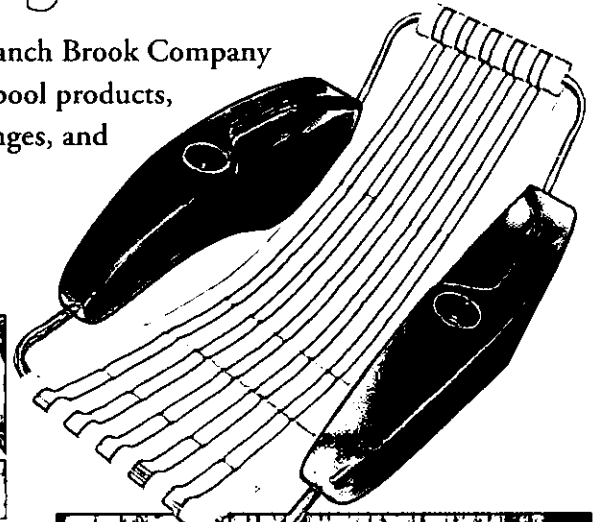


Quality Pools  
Made in  
America

*Experience... Quality... Service... Price... Anything Less Just Won't Do!*

# just for fun

What's a pool without water games? Branch Brook Company carries the most comprehensive line of pool products, from floats, games, goggles, masks, lounges, and swim training items.



**F**rom lobster to hot dogs, now you can prepare your favorite summertime fare on a new grill by Weber or Straubel. No matter if you're a grill chef or a weekend warrior, Branch Brook Company has a huge selection of barbecue grills to fit your needs and budget.

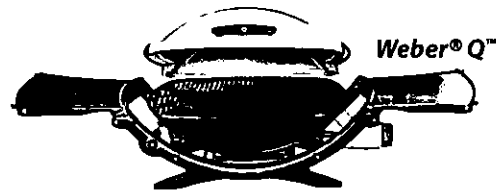
If you're looking for a top quality grill that will pay for itself with years of durability, the Weber Q and Genesis® Series are a perfect choice. Some work surfaces remove for easy clean-up and are made of heat resistant granite-style thermoset. Some carts are robot-welded, not simply held together by rivets, nuts and bolts, which means it requires minimal assembly.

The Weber Genesis® Gold C is a three burner model with an expanded cooking surface for large parties. Plus, it offers a swing-up work surface that's convenient when you need extra space. Weber's patented cooking system eliminates flare-ups. Typically, flare-ups occur when fats build up on lava rocks, pumice stone or flat metal plates found in ordinary gas grills. The fats ignite and eventually burn out of control, singeing the meat and causing uneven grilling results. The solution: Flavorizer® bars, found on all but the Weber Q gas grill. When juices hit the bars they don't flare up, they sizzle, smoke and impart a delectable outdoor flavor to your food. And heavy-duty cooking grates help to retain heat for a perfect sear every time.

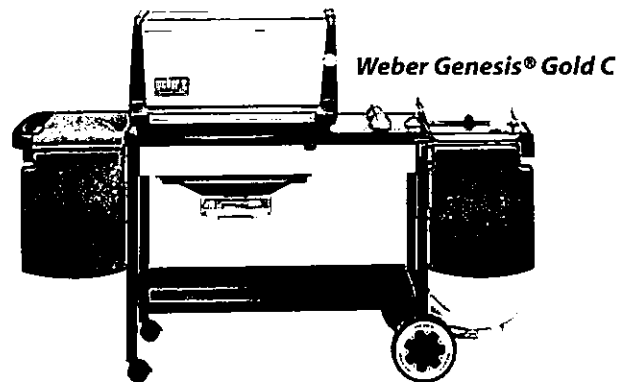
The burner system is designed to ensure that every square inch of cooking space heats evenly, eliminating hot spots that lead to inconsistent grilling. Weber also makes sure your burners are in working order from the very beginning. An ignition and burner test is performed on each and every grill and the burners are installed in the cooking box for your convenience.

Weber grills are one of many styles offered by Branch Brook Company.

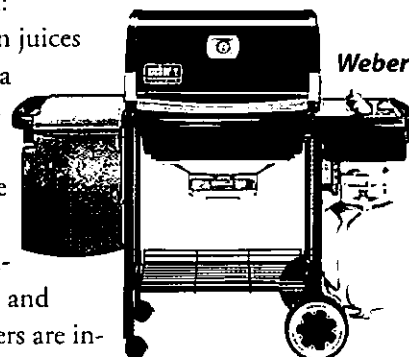
## barbecue grills



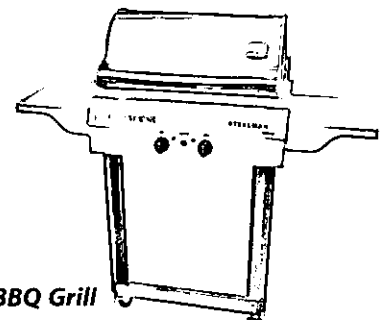
Weber® Q™



Weber Genesis® Gold C



Weber Genesis® Silver A



Straubel Stone BBQ Grill

# patio furniture

## The Complete Backyard

We at Branch Brook Company want to be your backyard specialists. With a swimming pool for the kids to enjoy, a spa for everyone to relax in, and a barbecue grill to help you fix those summertime feasts, what backyard would be complete without some patio furniture on which to dine and lounge in comfort.

Branch Brook Company has outdoor furniture to suit all tastes and budgets. Also available is a large selection of outdoor accessories, such as beach chairs and umbrellas, patio umbrellas, replacement cushions, furniture covers, hammocks, outdoor lights, screenhouses and much more!

**Outdoor Wicker** The beauty of wicker in an assortment of traditional designs. The difference is this wicker is made to be enjoyed outdoors as well as in. Constructed of materials that are impervious to the weather.

**Cushion Dining** Comfortable and durable cushion dining sets are available in a wide variety of frame colors and cushion patterns.

**Aluminum Sling** Sling furniture offers the style and comfort of cushion furniture in a lower maintenance design.

**Cast Aluminum** Nothing compares with the timeless beauty and durability of cast aluminum furniture. Impervious to rust and elegantly crafted, cast aluminum furniture is a classic addition to any backyard.

**Teak Furniture** The elegant look of teak and the tradition of wood. Teak is widely regarded as the supreme hardwood with its natural oils that withstand the effects of outdoor weather.

**Resin Furniture** Easy to maintain and very easy on the wallet, resin furniture is available in a wide range of styles and colors.



*Branch Brook Company carries top-quality patio sets and accessories by such top industry names as Agio, Bellini, Carter Grandle, Cascadia, Compex, Grand Basket, Hansen, Home Casual, Majestic Umbrella, Nardi, Pure Casual, Scan Com, Shelly's Cushions, Sun Coast, and Treasure Garden.*



*Experience... Quality... Service... Price.....Anything Less Just Won't Do!*



pas

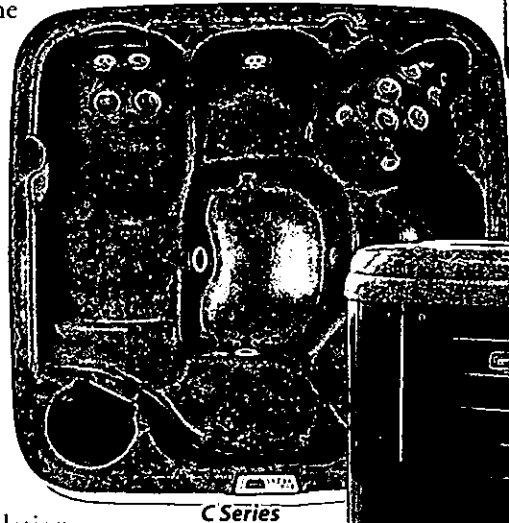
Branch Brook Company named the Coleman Spa Retailer of the Year Worldwide...

## A Reputation for Excellence

Coleman® Spas by MAAX™, one of the world's most highly recognized brand names, produces one of the world's most reliable and advanced lines of spas. The ergonomic design and many exclusive features of Coleman Spas make them one of the most popular brands, and one of the best values, in the spa industry. Relaxing in a Coleman Spa is an easy and natural way to engage time on your terms—a way to bring balance to your life.

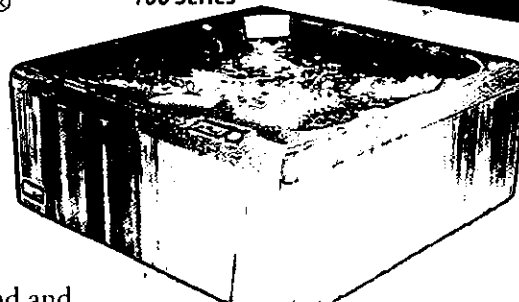
**The C Series** is the cornerstone of the 2004 Coleman Spa Line, Feature Rich at Value Pricing. All weather maintenance-free DuraMaax™ cabinetry, energy efficient Thermo-Lock™ IV Insulation, Easy Touch™ solid state control system, Galvalume™ steel frame with lifetime structural warranty. Standard Features: Powerworks® System with M7 Technology; Deluxe Comfort Collar®; Foot Relief Zone®; and Zone Therapy.

**The 100 Series** Great features and superb value. Each model features Coleman Spas' exclusive Thermo-Lock™ Insulation System for the ultimate in sound and heat energy management. Digital displays and electronically-controlled filter cycles make life easier, while warm, swirling waters wash your cares away.



C Series

100 Series



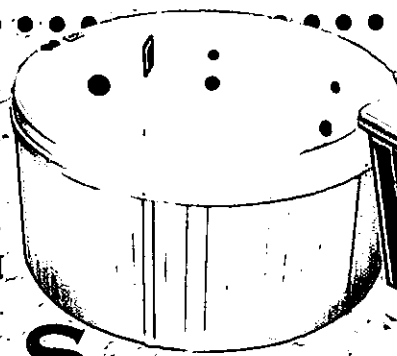
Branch Brook Company is a consistent winner of Coleman's prestigious "Platinum Award" given for outstanding sales and customer service. We have just been named "The Worldwide Coleman Spa Retailer 2003", an award we've worked very hard to achieve and will continue to do.

We carry a large selection of spa chemicals and accessories to help you create the perfect environment for your new Coleman Spa by MAAX.

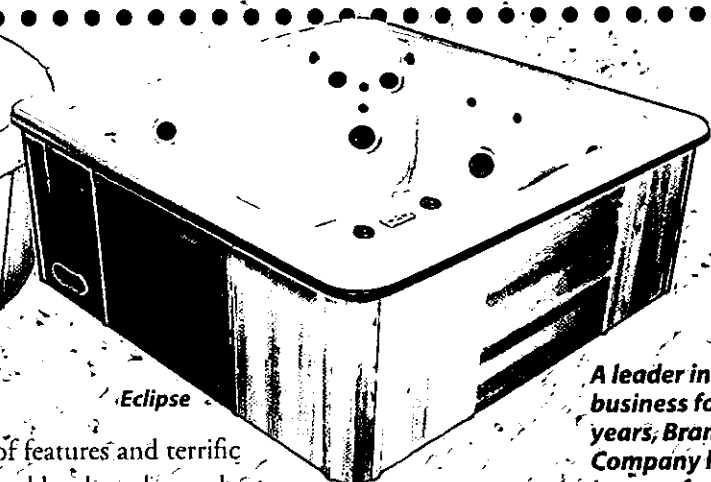
Our Spa Service Hotline — (732) 787-3664 — is available to help answer your spa-related questions, or arrange for on-site service by our highly trained spa technicians.

**Three reasons people buy spas** Family fun and entertainment; stress reduction and relaxation; and health and hydrotherapy. Coleman Spas are designed specifically to answer those needs, using the latest technology to make each spa a unique experience. Hydrotherapy is routinely prescribed for arthritis, short-term injury, chronic pain and sore muscles. Pulsating waters can often improve circulation and accelerate your body's healing process.

VIKING  
SPAS™



Viking 1



Eclipse

This exciting series of spas have an incredible number of features and terrific quality for spas in this price range. You will be pleasantly surprised by the value and durability of a Viking Spa. We carry 2 models—Viking 1 and the Eclipse.

A leader in the spa business for over 21 years, Branch Brook Company has the honor of representing some of the top names in the industry.

Newark • Hazlet • Brick • Cinnaminson • Wharton • Green Brook 23

# billiards

The American Heritage billiard tables are available at Branch Brook Company. Renowned for their superior craftsmanship, performance, and constructed in strict accordance with the Billiard Congress of America specifications. A billiard table makes a beautiful focal point for that newly refinished basement or recreation room.



**PALERMO**

- 1" slate playing surface • one piece slate pad • double center slate beam • solid maple rails with walnut diamond sights • solid maple blinds with rope trim • solid maple cabinet with elegant roping and designer shell • deluxe shield pocket • mahogany with 22oz. cloth

• Only premium grade hardwoods are used in the production of an American Heritage Collector Series table. A "grain-against-grain" bonding process ensures the highest possible resistance to moisture and movement.

• People who know billiard tables know that the corner system is the foundation on which everything else depends. That's why American Heritage uses mortised stop-blocks and T.A.G. gusset plates to create the strongest corner ever built.

• Underneath the handsome exterior of your American Heritage table lies a system of vertically integrated, cross laminated support beams. These extra

wide, extra deep beams are recessed, (or mortised) directly into the table cabinetry. This adds to the structural integrity of your table and helps keep it strong and stable as humidity levels change from season to season.

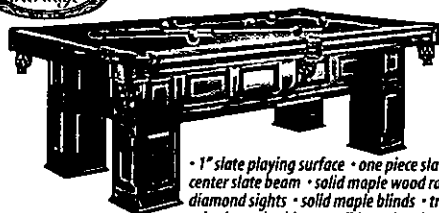
• Seamless slate foundation called "Magna-Board™" is the best surface foundation you've ever played on.

• Joint-free Magna-Board™ slate foundation provides 100% support at all points of contact while maintaining the integrity of the slate leveling.

• Precision Rail Tolerances and 100% Natural Gum Rubber Cushions deliver the Rebound Accuracy Demanded by Tournament Professionals.



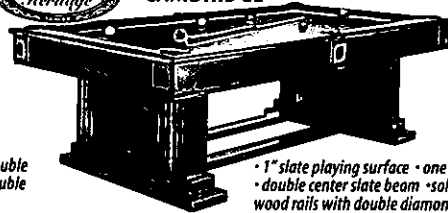
**BRITTON**



- 1" slate playing surface • one piece slate pad • double center slate beam • solid maple wood rails with double diamond sights • solid maple blinds • traditional raised panel cabinet • solid maple raised panel legs • chestnut walnut burl leather pockets • chestnut walnut burl with 22oz. cloth



**CAMBRIDGE**



- 1" slate playing surface • one piece slate pad • double center slate beam • solid maple oversized wood rails with double diamond sights • solid maple blinds • solid maple decorative trestle legs • maple veneer trestle design cabinet • brandy with 22oz. cloth



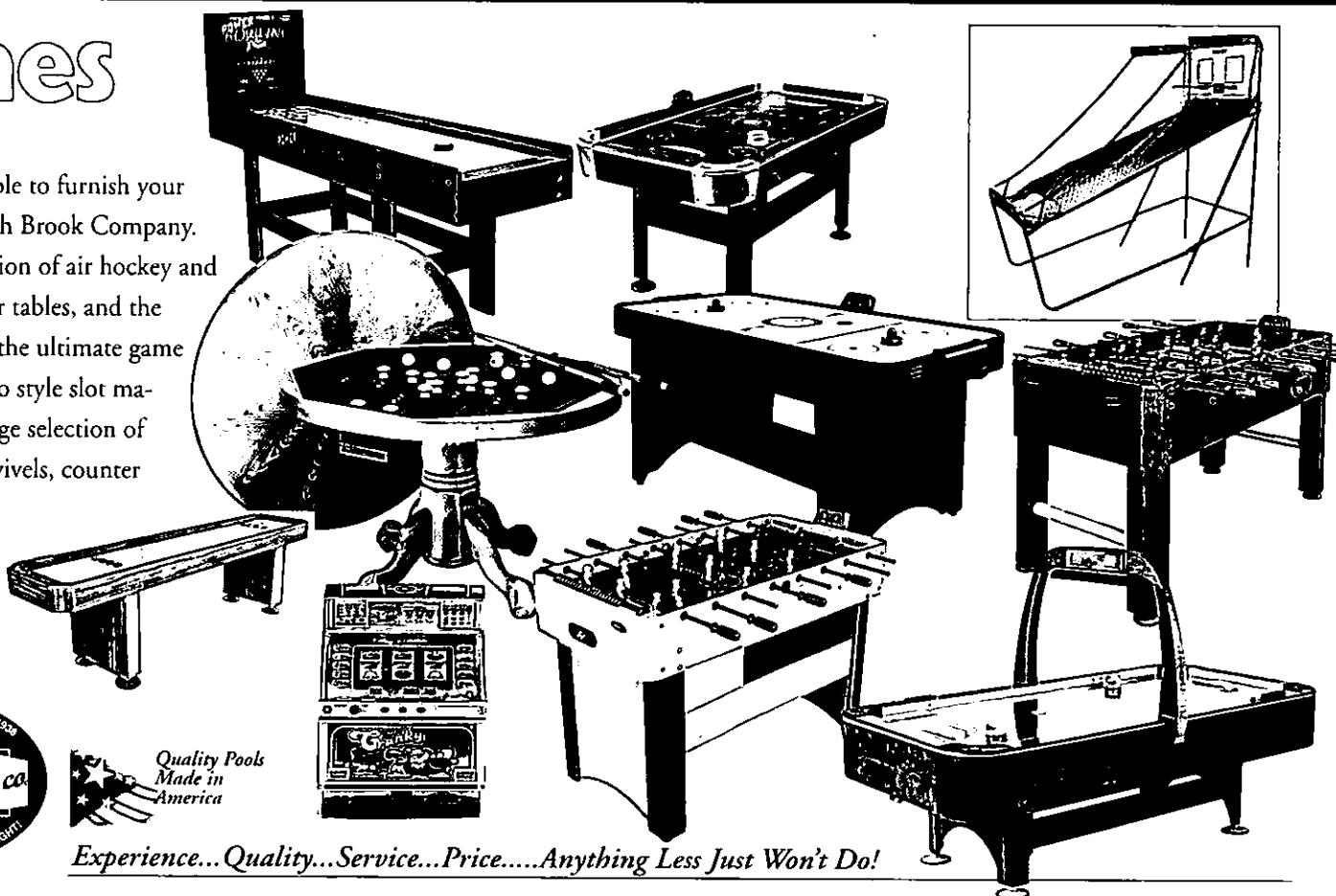
**FAIRFAX**



- 1" slate playing surface • one piece slate pad • double center slate beam • solid maple rails with diamond sights • solid maple blinds • solid oversized ball claw legs with top plates • arched veneer with router cabinet • english tudor loop and tassel leather pockets • english tudor or mahogany with 22oz. cloth

# games

It's easy and affordable to furnish your game room at Branch Brook Company. There's a large selection of air hockey and championship soccer tables, and the prices are right. For the ultimate game room, there's a casino style slot machine. We offer a huge selection of quality bar stools, swivels, counter stools, wrought iron chairs, high back chairs, and more.

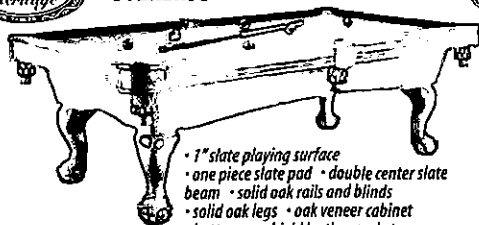


Quality Pools  
Made in  
America

Experience... Quality... Service... Price.....Anything Less Just Won't Do!



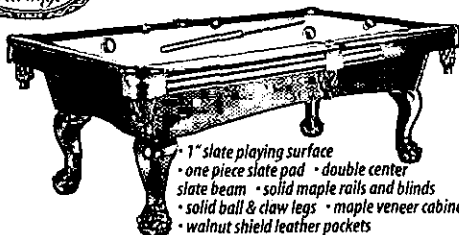
### STERLING



- 1" slate playing surface
- one piece slate pad • double center slate beam • solid oak rails and blinds
- solid oak legs • oak veneer cabinet
- butter rum shield leather pockets
- fruitwood with 22oz. cloth



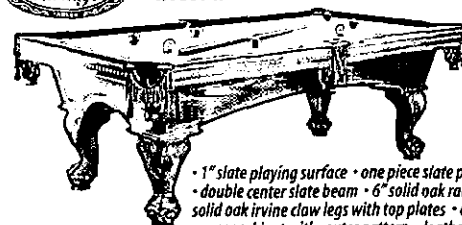
### VIENNA



- 1" slate playing surface
- one piece slate pad • double center slate beam • solid maple rails and blinds
- solid ball & claw legs • maple veneer cabinet
- walnut shield leather pockets
- walnut with 22oz. cloth



### TACOMA



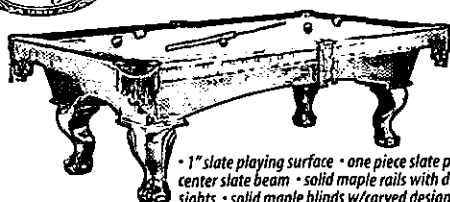
- 1" slate playing surface • one piece slate pad
- double center slate beam • 6" solid oak rails • giant solid oak irvine claw legs with top plates • arched oak veneer cabinet with router pattern • leather pockets w/deluxe loop and tassel • cinnamon with 22oz. cloth



Quality Crafted Billiard Tables that look like you spent a lot more than you really did.



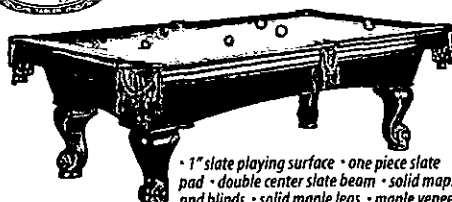
### WINSLOW



- 1" slate playing surface • one piece slate pad • double center slate beam • solid maple rails with diamond sights • solid maple blinds w/carved design • solid falcon claw legs w/decorative transition plates • maple veneer cabinet • walnut loop & tassel leather pockets
- walnut with 22oz. cloth



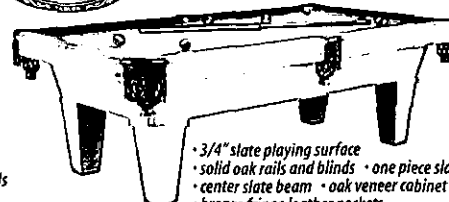
### BOSTON



- 1" slate playing surface • one piece slate pad • double center slate beam • solid maple rails and blinds • solid maple legs • maple veneer cabinet • bordeaux loop & tassel leather pockets
- english tudor with 22 oz. cloth



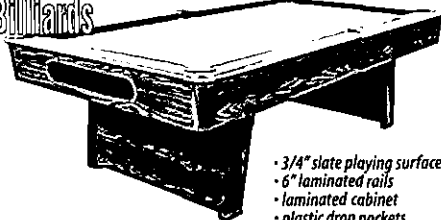
### VAIL II



- 3/4" slate playing surface
- solid oak rails and blinds • one piece slate pad • center slate beam • oak veneer cabinet and legs
- bronze fringe leather pockets
- desert oak with 22oz. cloth



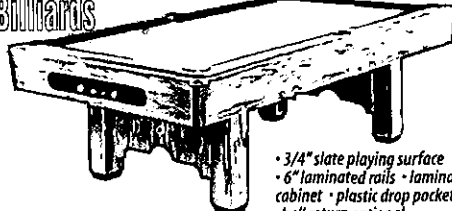
### PROSHOOTER



- 3/4" slate playing surface
- 6" laminated rails
- laminated cabinet
- plastic drop pockets
- 16oz. standard green cloth



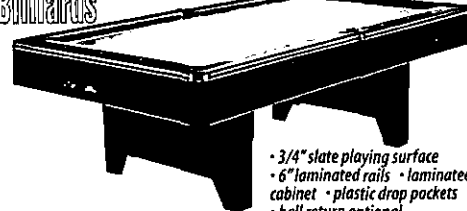
### CHALLENGER



- 3/4" slate playing surface
- 6" laminated rails • laminated cabinet • plastic drop pockets
- ball return optional
- oak with 22oz. cloth



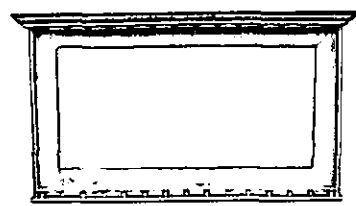
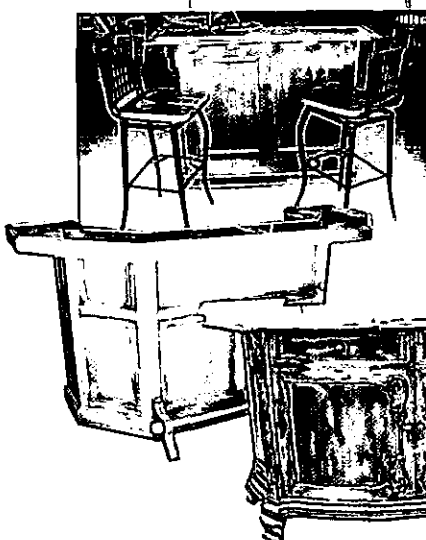
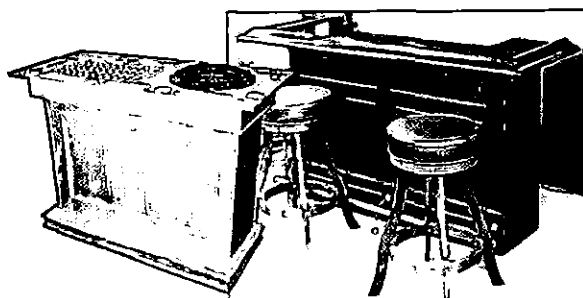
### PREMIERE



- 3/4" slate playing surface
- 6" laminated rails • laminated cabinet • plastic drop pockets
- ball return optional
- black w/ 22oz. cloth

## bars & accessories

At Branch Brook Company there's a bar for everyone's taste. From a small bar with plain lines to an ornate marble top bar with exquisite design. We even carry a casino style bar for those weekend parties. Many bars are offered with matching chairs and mirror.



*The spectacle of Christmas at Branch Brook Company is a wonder to behold. We carry a huge selection of prelit Christmas trees and all the trimmings to help you celebrate this very special season.*

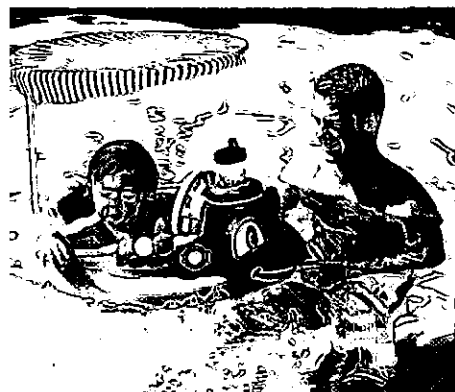


## A Store for All Seasons

You may not always be able to swim, cook, or dine in your yard come the holidays, but Branch Brook Company can help you make it a seasonal showcase for the neighborhood. Branch Brook Company is your one-stop Christmas shop, stocking all your seasonal decorating needs including light sculptures, three-dimensional yard art and a variety of outdoor lighting concepts. We'll keep your home merry and bright. Branch Brook Company will help you get into the Christmas spirit and brighten up your home with our huge selection of Christmas trees, light

sets, wreaths, garlands, gift items, ribbons, bows and banners. We've got it all! Looking for just the right ornaments for your tree? We've got a huge selection to choose from. Branch Brook Company also boasts one of the largest selections of Fiber Optic trees and figures to be found anywhere. You can choose from a wide variety of animated Santa's and Angels, all designed to set the holiday mood and enhance your Christmas spirit!

# Putting the FUN in summer is what a Branch Brook Pool is all about.



## *6 convenient locations*

### **Newark**

223 Bloomfield Avenue  
Newark, NJ 07104  
Phone (973) 484-3900  
Fax (973) 484-0376

### **Hazlet**

370 Route 36 East  
Hazlet, NJ 07730  
Phone (732) 787-6897  
Fax (732) 787-0358

### **Brick**

1686 Route 88 West  
Brick, NJ 08724  
Phone (732) 840-7777  
Fax (732) 840-0372

### **Cinnaminson**

1418 Route 130 North  
Cinnaminson, NJ 08077  
Phone (856) 303-0700  
Fax (856) 303-1474

### **Wharton**

316 Route 15 South  
Wharton, NJ 07885  
Phone (973) 328-1530  
Fax (973) 328-4059

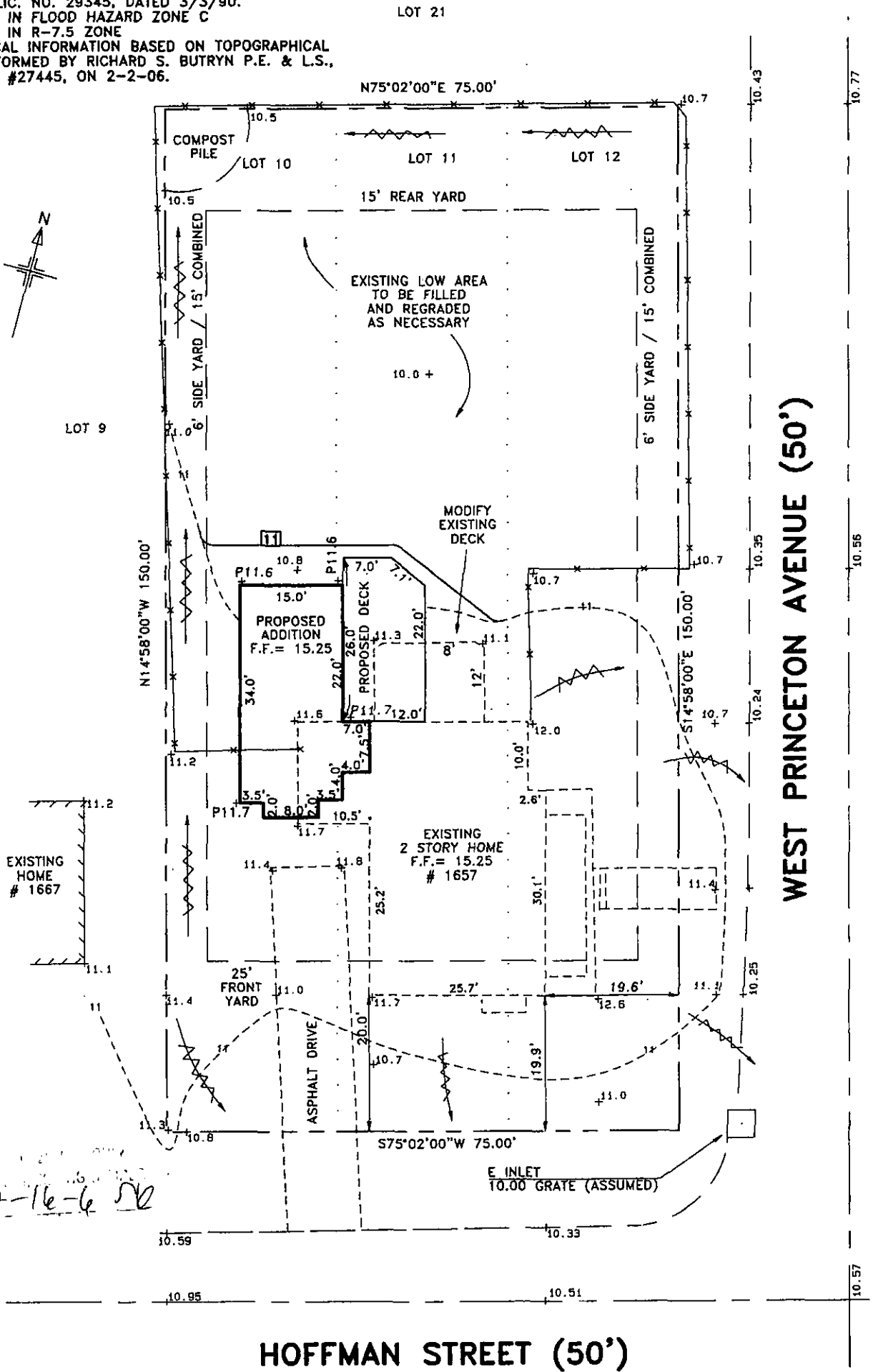
### **Green Brook**

231 Route 22 East  
Green Brook, NJ 08812  
Phone (732) 926-1222  
Fax (732) 926-1220

World Wide Web- [www.branchbrook.com](http://www.branchbrook.com)

NOTES:

- THIS MAP BASED ON "SURVEY OF PROPERTY, BLOCK 13, LOTS 10, 11 & 12, LAURELTON PARK, BRICK TOWNSHIP, OCEAN COUNTY, NEW JERSEY" BY STUART D. CHRISTIE, P.L.S., N.J. LIC. NO. 29345, DATED 3/3/90.
- PROPERTY IS IN FLOOD HAZARD ZONE C
- PROPERTY IS IN R-7.5 ZONE
- TOPOGRAPHICAL INFORMATION BASED ON TOPOGRAPHICAL SURVEY PERFORMED BY RICHARD S. BUTRYN P.E. & L.S., N.J. LICENSE #27445, ON 2-2-06.



PLOT PLAN

LOTS 10-12, BLOCK 831.13  
BRICK TOWNSHIP  
OCEAN COUNTY, NEW JERSEY

RICHARD S. BUTRYN

PROFESSIONAL ENGINEER & LAND SURVEYOR  
749 SCHOOLHOUSE ROAD, BRICK, NEW JERSEY, 08724  
(732) 836-9200, N.J., LICENSE #27445

*Richard S. Butryn*

2-2-2006

|         |          |         |          |
|---------|----------|---------|----------|
| JOB NO. | 2413     | DRW. BY | U.R.     |
| SCALE   | 1" = 20' | DATE    | 2-2-2006 |

*2/14/06*