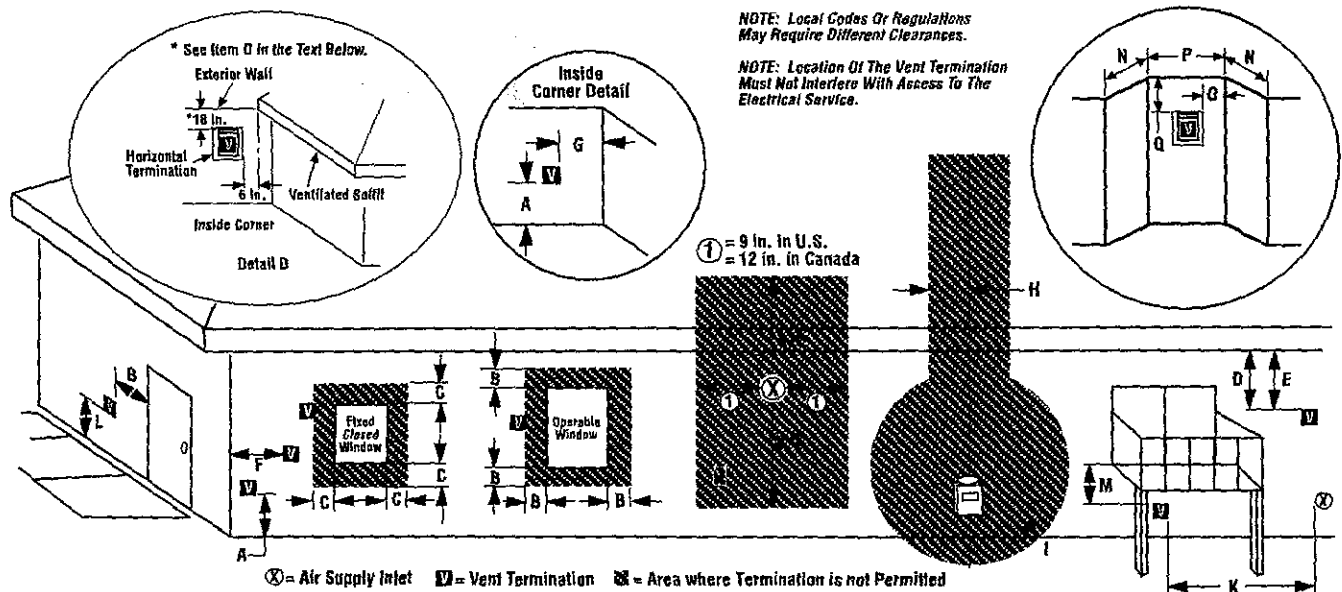




	Canadian Installation*	US Installation**
A = Clearance above grade, veranda, porch, deck, or balcony.	12 inches (30cm)*	12 inches (30cm)**
B = Clearance to window or door that may be opened.	6 inches (15cm) for appliances < 10,000 Btuh (3kW), 12 inches (30cm) for appliances > 10,000 Btuh (3kW)	6 inches (15cm) for appliances < 10,000 Btuh (3kW), 9 inches (23cm) for appliances > 10,000 Btuh (3kW) and < 50,000 Btuh (15kW), 12 inches (30cm) for appliances > 50,000 Btuh (15kW)**
C = Clearance to permanently closed window	12 inches (305mm) recommended to prevent window condensation	9 inches (229mm) recommended to prevent window condensation
D = Vertical clearance to ventilated soffit located above the termination within a horizontal distance of 18 inches (458mm)	18 inches (458mm)	18 inches (458mm)
E = Clearance to unventilated soffit	12 inches (305mm)	12 inches (305mm)
F = Clearance to outside corner	5 inches (12.7cm) minimum	5 inches (12.7cm) minimum
G = Clearance to inside corner	2 inches (5.08cm) minimum - SV4.5HT-2* 6 inches (15.2cm) minimum - SV4.5HTSS	2 inches (5.08cm) minimum - SV4.5HT-2* 6 inches (15.2cm) minimum - SV4.5HTSS
H = Clearance to each inside of center line extended above meter/regulator assembly	3 feet (91cm) within a height of 15 feet above the meter/regulator assembly*	3 feet (91cm) within a height of 15 feet above the meter/regulator assembly**
I = Clearance to service regulator vent outlet	3 feet (91cm)*	3 feet (91cm)**
J = Clearance to nonmechanical air supply inlet to building or the combustion air inlet to any other appliance	6 inches (15cm) for appliances < 10,000 Btuh (3kW), 12 inches (30cm) for appliances > 10,000 Btuh (3kW)	6 inches (15cm) for appliances < 10,000 Btuh (3kW), 9 inches (23cm) for appliances > 10,000 Btuh (3kW) and < 50,000 Btuh (15kW), 12 inches (30cm) for appliances > 50,000 Btuh (15kW)**
K = Clearance to a mechanical air supply inlet	6 feet (1.83m)*	3 feet (91cm) above if within 10 feet (3m) horizontally**
L = Clearance above paved sidewalk or paved driveway located on public property	7 feet (2.13m)‡	7 feet (2.13m)‡
M = Clearance under veranda, porch, deck or balcony	12 inches (30cm)*‡	12 inches (30cm)‡
N = Depth of Alcove (Maximum)	6 feet (1.83m)*	6 feet (1.83m)**
O = Clearance to Termination (Alcove)	6 inches (15.2mm)*	6 inches (15.2mm)**
P = Width of Alcove (Minimum)	3 feet (91cm)*	3 feet (91cm)*
Q = Clearance to Combustible Above (Alcove)	18 inches (457mm)*	18 inches (457mm)**
* In accordance with the current CSA-B149.1 National Gas And Propane Installation Code.		
** In accordance with the current ANSI S2223.1/NFPA 54 National Fuel Gas Codes.		
‡ A vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings.		
*‡ Only permitted if veranda, porch, deck or balcony is fully open on a minimum 2 sides beneath the floor.		
*2 Inch Clearance to Non-Combustibles for SV4.5HT-2 Only.		

Figure 7: Exterior Horizontal Vent Termination Clearance Requirements

NOTE: DIAGRAMS & ILLUSTRATIONS ARE NOT TO SCALE.

MINIMUM CLEARANCES TO COMBUSTIBLES

Appliance And Vent Clearances

The appliance is approved with zero clearance to combustible materials on all sides (as detailed in *Table 5*), with the following exception: **When the unit is installed with one side flush with a wall, the wall on the other side of the unit must not extend beyond the front edge of the unit.** In addition, when the unit is recessed, the side walls surrounding the unit must not extend beyond the front edge of the unit (see *Figure 3*).

Hearth Extension—A hearth extension is not required with this appliance. If a hearth extension is used, do not block the lower control compartment door. Any hearth extension used is for appearance only and does not have to conform to standard hearth extension installation requirements.

Shelf Height—To provide for the lowest possible shelf surface, use the alternate rear vent outlet, the venting attached to the top vent should be routed in a way to minimize obstructions to the space above the appliance. **Do not insulate the space between the appliance and the area above it (see *Figure 8*).** The minimum height from the base of the appliance to the underside of combustible materials used to construct a utility shelf in this fashion is shown in *Figure 8*.

The appliance should be mounted on a fully supported base extending the full width and depth of the unit. The appliance may be located on or near conventional construction materials. However, if installed on combustible materials, such as carpeting, vinyl tile, etc., a metal or wood barrier covering the entire bottom surface must be used.

Back	1/2 in. (13 mm) 0 in. (0 mm) from Spacers Or Dimples
Sides	1/2 in. (13 mm) 0 in. (0 mm) from Spacers Or Dimples **
Top of Fireplace	3 in. (76 mm) 0 in. (0 mm) with standoff(s) in vertical position (see <i>Figure 11</i>)
Floor	0 in. (0 mm)
From Bottom of Unit To Ceiling	minimum of 64 in. (1626)
Vent	3 in. (76 mm) Top* / 1 in. (25.4 mm) Sides & Bottom
SERVICE CLEARANCES Feet (meters)	
Front	3 ft (0.9 m)

Table 5: Minimum Clearances*

*Note: 3 in. (75 mm) above any horizontal/inclined vent component.

**Note: See Page 10, Step 1 for clearance requirements to the nailing flange located at each side of the unit and any screw heads adjacent to it.

Models	Combustible Shelf Height—in. (mm)			
	Top Vent—with One 90 Degree Elbow		Rear Vent—Straight Out The Back	
	Secure Vent	Secure Flex	Secure Vent	Secure Flex
MPDT33 MPDR33	43 3/4 (1111)	45 1/2 (1156)	33 1/4 (845)	33 1/4 (845)
MPD35	45 3/4 (1162)	47 1/2 (1207)	35 1/4 (895)	35 1/4 (895)
MPD40 MPD45	50 3/4 (1289)	52 1/2 (1334)	40 1/4 (1022)	40 1/4 (1022)

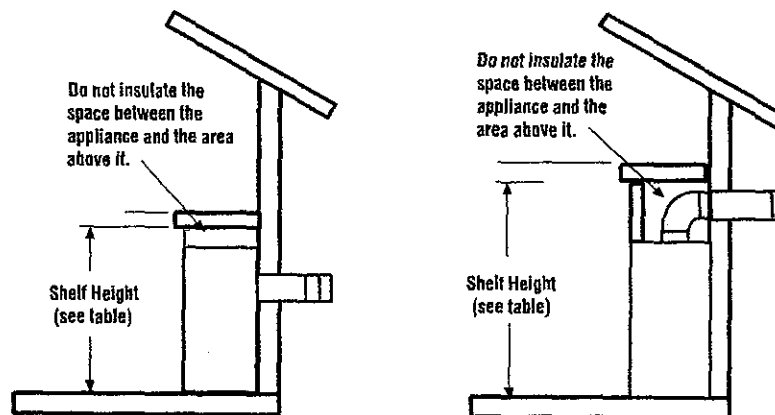


Figure 8: Shelf Height Minimum Clearances

ENGINEERING PERMIT APPLICATION

RECEIVING CLERK: CM
PERMIT #: 180114-0083

BLOCK: 89.01 LOT: 40 ADDRESS: 27 BROWER DRIVE

IDENTIFICATION:

1. WORK SITE ADDRESS: 27 BROWER DRIVE

2. NAME OF OWNER IN FEE: DION WATKINS

ADDRESS: 2378 WINDHEIM AVE PHONE #: () _____

Scotch Plains FAX #: () _____

3. PRINCIPAL CONTRACTOR: Home Owner Dion Watkins

ADDRESS: 2378 WINDHEIM AVE PHONE #: [REDACTED]

Scotch Plains FAX #: () _____

4. ARCHITECT OR ENGINEER: WALTER J. HESSBERG, AIA

ADDRESS: 2715 HOOPER AVE, BLICK PHONE: # (938) 262-7444

5. RESPONSIBLE PERSON FOR WORK: DION WATKINS

ADDRESS: 2378 WINDHEIM AVE Scotch Plains

PHONE: [REDACTED] E-MAIL: _____

PROJECT DESCRIPTION: ☐ GRADING/CLEARING ☐ ROAD OPENING

☐ SOIL REMOVAL/FILL ☐ RETAINING WALL ☐ POOL

☐ BULKHEAD/DOCK ☒ DWELLING ☐ TREE REMOVAL _____

☐ OTHER _____

LENGTH: 52 FT WIDTH: 20.5 FT HEIGHT: 31.65 FT

ENGINEERING REVIEW: _____

DATE RECEIVED: 9/24/14 DATE REJECTED: _____

FEE SUMMARY:

APPLICATION FEE: \$ 150.00

REVIEW FEE: \$ _____

INSPECTION FEE: \$ _____

OTHER: \$ _____

BONDS: \$ _____

TOTAL: \$ 150.00

SPECIAL CONDITIONS:

OCEAN COUNTY SOILS: _____

DRAINAGE EASEMENTS: _____

UTILITY EASEMENTS: _____

CONSERVATION EASEMENTS: _____

FEMA REQUIREMENTS: _____

D.E.P. PERMITS: _____

BOARD APPROVAL: ☐ PB ☐ ZB

APPLICATION NUMBER: _____

APPROVED DATE: _____

FLOOD ZONE

PERMIT A28

DATE APPROVED: 9/24/14 INITIALS: WSS

Natale Res.
HVAC Load Calculations

for

Natale Res.



RHVAC RESIDENTIAL
HVAC LOADS

Prepared By:

Thomas Mastandrea
Precise Air

Monday, September 01, 2014

Rhvac is an ACCA approved Manual J and Manual D computer program.
Calculations are performed per ACCA Manual J 8th Edition, Version 2, and ACCA Manual D.

Project Report

General Project Information

Project Title: Natale Res.
 Designed By: Precise Air
 Project Date: Sunday, August 31, 2014
 Client Name: Natale Res.
 Company Name: Precise Air
 Company Representative: Thomas Mastandrea
 Company Comment:

Design Data

Reference City: Long Branch, New Jersey
 Building Orientation: Front door faces North
 Daily Temperature Range: Medium
 Latitude: 40 Degrees
 Elevation: 15 ft.
 Altitude Factor: 0.999

	Outdoor Dry Bulb	Outdoor Wet Bulb	Outdoor Rel.Hum	Indoor Rel.Hum	Indoor Dry Bulb	Grains Difference
Winter:	13	11.86	80%	n/a	70	n/a
Summer:	95	80	53%	50%	70	76

Check Figures

Total Building Supply CFM:	1,247	CFM Per Square ft.:	0.490
Square ft. of Room Area:	2,545	Square ft. Per Ton:	826
Volume (ft³) of Cond. Space:	22,909		

Building Loads

Total Heating Required Including Ventilation Air:	42,849 Btuh	42.849 MBH
Total Sensible Gain:	27,425 Btuh	74 %
Total Latent Gain:	9,547 Btuh	26 %
Total Cooling Required Including Ventilation Air:	36,973 Btuh	3.08 Tons (Based On Sensible + Latent)

Notes

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 All computed results are estimates as building use and weather may vary.
 Be sure to select a unit that meets both sensible and latent loads according to the manufacturer's performance data at your design conditions.

Miscellaneous Report

System 1 1st Floor	Outdoor Dry Bulb	Outdoor Wet Bulb	Outdoor Rel Hum	Indoor Rel Hum	Indoor Dry Bulb	Indoor Grains
Input Data:						
Winter:	13	11.86	80%	n/a	70	n/a
Summer:	95	80	53%	50%	70	76.46

System 2 2nd Floor	Outdoor Dry Bulb	Outdoor Wet Bulb	Outdoor Rel Hum	Indoor Rel Hum	Indoor Dry Bulb	Indoor Grains
Input Data:						
Winter:	13	11.86	80%	n/a	70	n/a
Summer:	95	80	53%	50%	70	76.46

Duct Sizing Inputs

	Main Trunk	Runouts
Calculate:	Yes	Yes
Use Schedule:	Yes	Yes
Roughness Factor:	0.00300	0.01000
Pressure Drop:	0.1000 in.wg./100 ft.	0.1000 in.wg./100 ft.
Minimum Velocity:	650 ft./min	450 ft./min
Maximum Velocity:	900 ft./min	750 ft./min
Minimum Height:	0 in.	0 in.
Maximum Height:	0 in.	0 in.

Outside Air Data

	Winter	Summer
Infiltration Specified:	0.410 AC/hr 157 CFM	0.210 AC/hr 80 CFM
Infiltration Actual:	0.410 AC/hr	0.210 AC/hr
Above Grade Volume:	X 22,909 Cu.ft. 9,393 Cu.ft./hr X 0.0167	X 22,909 Cu.ft. 4,811 Cu.ft./hr X 0.0167
Total Building Infiltration:	157 CFM	80 CFM
Total Building Ventilation:	0 CFM	0 CFM

--System 1--

Infiltration & Ventilation Sensible Gain Multiplier:	27.49	= (1.10 X 0.999 X 25.00 Summer Temp. Difference)
Infiltration & Ventilation Latent Gain Multiplier:	51.97	= (0.68 X 0.999 X 76.46 Grains Difference)
Infiltration & Ventilation Sensible Loss Multiplier:	62.67	= (1.10 X 0.999 X 57.00 Winter Temp. Difference)
Winter Infiltration Specified:	0.410 AC/hr (91 CFM), Construction: Average	
Summer Infiltration Specified:	0.210 AC/hr (47 CFM), Construction: Average	

--System 2--

Infiltration & Ventilation Sensible Gain Multiplier:	27.49	= (1.10 X 0.999 X 25.00 Summer Temp. Difference)
Infiltration & Ventilation Latent Gain Multiplier:	51.97	= (0.68 X 0.999 X 76.46 Grains Difference)
Infiltration & Ventilation Sensible Loss Multiplier:	62.67	= (1.10 X 0.999 X 57.00 Winter Temp. Difference)
Winter Infiltration Specified:	0.410 AC/hr (65 CFM), Construction: Average	
Summer Infiltration Specified:	0.210 AC/hr (33 CFM), Construction: Average	

Duct Load Factor Scenarios for System 1

No.	Type	Description	Location	Attic Ceiling	Duct Leakage	Duct Insulation	Surface Area	
1	Supply	Main	Closed Crawl A	-	0.09	8	402	No
1	Return	Main	Closed Crawl A	-	0.15	8	372	No

Duct Load Factor Scenarios for System 2

No.	Type	Description	Location	Attic Ceiling	Duct Leakage	Duct Insulation	Surface Area	
1	Supply	Main	Attic	16B	0.09	8	286	No
1	Return	Main	Attic	16B	0.15	8	264	No

Load Preview Report

Scope	Rec Ton	ft. ² /Ton	Area	Sen Gain	Lat Gain	Net Gain	Sen Loss	Sys Htg CFM	Sys Clg CFM	Sys Act CFM	Duct Size
Building	3.32	767	2,545	27,425	9,547	36,973	42,849	557	1,247	1,247	
System 1	1.82	818	1,487	13,944	5,455	19,399	23,817	309	634	634	10x13
Duct Latent					2,220	2,220					
Zone 1			1,487	13,944	3,235	17,179	23,817	309	634	634	10x13
2-1st Floor			1,487	13,944	3,235	17,179	23,817	309	634	634	6-6
System 2	1.50	706	1,058	13,482	4,092	17,574	19,032	247	613	613	10x13
Duct Latent					1,560	1,560					
Zone 1			1,058	13,482	2,532	16,014	19,032	247	613	613	10x13
1-2nd Floor			1,058	13,482	2,532	16,014	19,032	247	613	613	6-6

Total Building Summary Loads

Component Description	Area Quan	Sens Loss	Lat Gain	Sens Gain	Total Gain
1F-hv-d: Glazing-Triple pane, sliding glass door, heat-absorbing, vinyl frame, u-value 0.44, SHGC 0.3	70	1,755	0	1,635	1,635
4A-6-d: Glazing-Double pane low-e (e = 0.20 or less), high performance, sliding glass door, e=0.05 on surface 2, any frame, u-value 0.33, SHGC 0.33	96	1,806	0	2,059	2,059
12C-0sw: Wall-Frame, R-13 insulation in 2 x 4 stud cavity, no board insulation, siding finish, wood studs	2465.6	12,790	0	7,068	7,068
16CR-28: Roof/Ceiling-Under Attic with Insulation on Attic Floor (also use for Knee Walls and Partition Ceilings), Vented Attic with Radiant Barrier, Dark Asphalt Shingles or Dark Metal, Tar and Gravel or Membrane, R-28 insulation	457.6	886	0	778	778
16B-28: Roof/Ceiling-Under Attic with Insulation on Attic Floor (also use for Knee Walls and Partition Ceilings), Vented Attic, No Radiant Barrier, Dark Asphalt Shingles or Dark Metal, Tar and Gravel or Membrane, R-28 insulation	1058.2	2,051	0	2,159	2,159
19A-21p: Floor-Over enclosed unconditioned crawl space, No insulation on exposed walls, sealed or vented space, passive, R-21 blanket	1487.2	3,043	0	1,335	1,335
Subtotals for structure:		22,331	0	15,034	15,034
People:	8		1,600	1,840	3,440
Equipment:			0	1,200	1,200
Lighting:	0			0	0
Ductwork:		10,708	3,780	7,058	10,839
Infiltration: Winter CFM: 157, Summer CFM: 80		9,810	4,167	2,204	6,371
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0
AED Excursion:		0	0	89	89
Total Building Load Totals:		42,849	9,547	27,425	36,973

Check Figures

Total Building Supply CFM:	1,247	CFM Per Square ft.:	0.490
Square ft. of Room Area:	2,545	Square ft. Per Ton:	826
Volume (ft³) of Cond. Space:	22,909		

Building Loads

Total Heating Required Including Ventilation Air:	42,849 Btuh	42,849 MBH
Total Sensible Gain:	27,425 Btuh	74 %
Total Latent Gain:	9,547 Btuh	26 %
Total Cooling Required Including Ventilation Air:	36,973 Btuh	3.08 Tons (Based On Sensible + Latent)

Notes

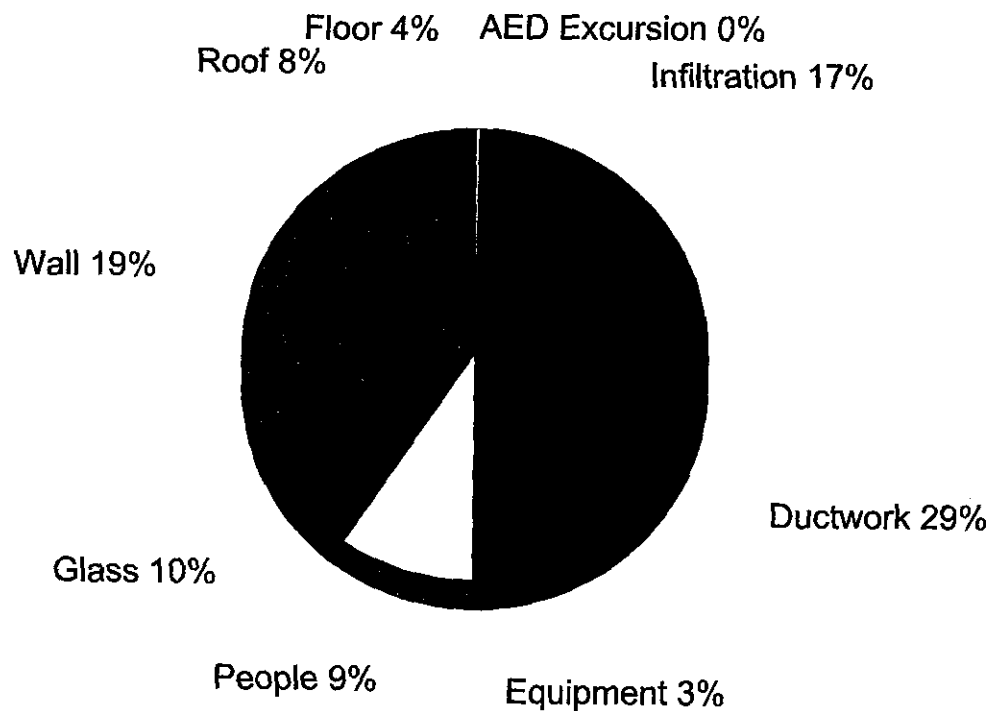
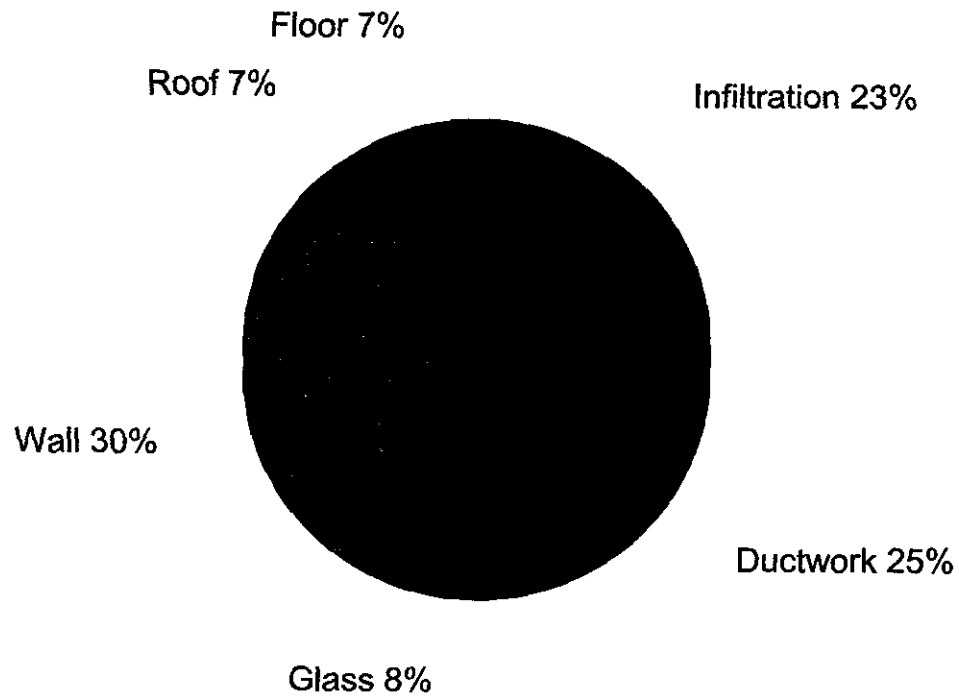
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Calculations are performed per ACCA Manual J 8th Edition, Version 2, and ACCA Manual D.

All computed results are estimates as building use and weather may vary.

Be sure to select a unit that meets both sensible and latent loads according to the manufacturer's performance data at your design conditions.

Building Pie Chart



System 1, Zone 1 Summary Loads (Average Load Procedure for Rooms)

Component Description	Area: Quan	Sens Loss	Lat Gain	Sens Gain	Total
1F-hv-d: Glazing-Triple pane, sliding glass door, heat-absorbing, vinyl frame, u-value 0.44, SHGC 0.3	70	1,755	0	1,635	1,635
4A-6-d: Glazing-Double pane low-e (e = 0.20 or less), high performance, sliding glass door, e=0.05 on surface 2, any frame, u-value 0.33, SHGC 0.33	48	902	0	1,185	1,185
12C-0sw: Wall-Frame, R-13 insulation in 2 x 4 stud cavity, no board insulation, siding finish, wood studs	1332.8	6,914	0	3,820	3,820
16CR-28: Roof/Ceiling-Under Attic with Insulation on Attic Floor (also use for Knee Walls and Partition Ceilings), Vented Attic with Radiant Barrier, Dark Asphalt Shingles or Dark Metal, Tar and Gravel or Membrane, R-28 insulation	457.6	886	0	778	778
19A-21p: Floor-Over enclosed unconditioned crawl space, No insulation on exposed walls, sealed or vented space, passive, R-21 blanket	1487.2	3,043	0	1,335	1,335
Subtotals for structure:		13,500	0	8,753	8,753
People:	4		800	920	1,720
Equipment:			0	1,200	1,200
Lighting:	0			0	0
Ductwork:		4,585	0	1,733	1,733
Infiltration: Winter CFM: 91, Summer CFM: 47		5,732	2,435	1,288	3,723
System 1, Zone 1 Load Totals:		23,817	3,235	13,944	17,179

Check Figures:

Supply CFM:	634	CFM Per Square ft.:	0.426
Square ft. of Room Area:	1,487	Square ft. Per Ton:	1,039
Volume (ft³) of Cond. Space:	13,385		

Zone Loads:

Total Heating Required:	23,817 Btuh	23.817 MBH
Total Sensible Gain:	13,944 Btuh	81 %
Total Latent Gain:	3,235 Btuh	19 %
Total Cooling Required:	17,179 Btuh	1.43 Tons (Based On Sensible + Latent)

Notes:

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

System 2, Zone 1 Summary Loads (Average Load Procedure for Rooms)

Component Description	Area (Sq. Ft.)	Sensible Loss	Latent Gain	Sensible Gain	Total Gain
4A-6-d: Glazing-Double pane low-e (e = 0.20 or less), high performance, sliding glass door, e=0.05 on surface 2, any frame, u-value 0.33, SHGC 0.33	48	904	0	874	874
12C-0sw: Wall-Frame, R-13 insulation in 2 x 4 stud cavity, no board insulation, siding finish, wood studs	1132.8	5,876	0	3,248	3,248
16B-28: Roof/Ceiling-Under Attic with Insulation on Attic Floor (also use for Knee Walls and Partition Ceilings), Vented Attic, No Radiant Barrier, Dark Asphalt Shingles or Dark Metal, Tar and Gravel or Membrane, R-28 insulation	1058.2	2,051	0	2,159	2,159
Subtotals for structure:		8,831	0	6,281	6,281
People:	4		800	920	1,720
Equipment:			0	0	0
Lighting:	0			0	0
Ductwork:		6,123	0	5,326	5,326
Infiltration: Winter CFM: 65, Summer CFM: 33		4,078	1,732	916	2,648
System 2, Zone 1 Load Totals:		19,032	2,532	13,482	16,014

Check Figures			
Supply CFM:	613	CFM Per Square ft.:	0.580
Square ft. of Room Area:	1,058	Square ft. Per Ton:	793
Volume (ft³) of Cond. Space:	9,524		

Zone Loads			
Total Heating Required:	19,032 Btuh	19.032 MBH	
Total Sensible Gain:	13,482 Btuh	84 %	
Total Latent Gain:	2,532 Btuh	16 %	
Total Cooling Required:	16,014 Btuh	1.33 Tons (Based On Sensible + Latent)	

Notes

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 All computed results are estimates as building use and weather may vary.
 Be sure to select a unit that meets both sensible and latent loads according to the manufacturer's performance data at your design conditions.

System 1 Room Load Summary

Room No.	Room Name	Area SF	Htg Sens Btuh	Min Htg CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Min Duct Size
---Zone 1---									
2	1st Floor	1,487	23,817	309	6-6	538	13,944	3,235	634
	Duct Latent							2,220	
	System 1 total	1,487	23,817	309			13,944	5,455	634
System 1 Main Trunk Size:			10x13 in.						
Velocity:			702 ft./min						
Loss per 100 ft.:			0.096 in.wg						

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	1.62	72% / 28%	13,944	5,455	19,399

Equipment Data

	Heating System	Cooling System
Type:	Natural Gas Furnace	Standard Air Conditioner
Model:		
Indoor Model:		
Brand:		
Efficiency:	0 AFUE	0 SEER
Sound:		
Capacity:	0	0
Sensible Capacity:	n/a	0 Btuh
Latent Capacity:	n/a	0 Btuh

System 2 Room Load Summary

Room No./Name	Area SF	Htg Sens Btuh	Min Htg CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Min CFM	Lat CFM
---Zone 1---									
1 2nd Floor	1,058	19,032	247	6-6	520	13,482	2,532	613	613
Duct Latent							1,560		
System 2 total	1,058	19,032	247			13,482	4,092	613	613
System 2 Main Trunk Size:		10x13 in.							
Velocity:		679 ft./min							
Loss per 100 ft.:		0.090 in.wg							

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	1.46	77% / 23%	13,482	4,092	17,574

Equipment Data

	Heating System	Cooling System
Type:	Natural Gas Furnace	Standard Air Conditioner
Model:		
Indoor Model:		
Brand:		
Efficiency:	0 AFUE	0 SEER
Sound:		
Capacity:	0	0
Sensible Capacity:	n/a	0 Btuh
Latent Capacity:	n/a	0 Btuh

PERMIT # 2019-01522
DATE ISSUED 12/2/14

SITE ADDRESS:

COMPLETE ADDRESS: 2378 W A/D HEIM

PHONE #: 714

2. NAME OF APPLICANT: SAME AS ABOVE

APPLICANT ADDRESS: 2378 WADHEIM DR SCOTTELL

PHONE _____ EMAIL: _____

3. RESPONSIBLE PERSON FOR WORK: Drew N. H. 10

PHONE: [REDACTED] :AX# [REDACTED]
SIGNATURE OF APPLICANT: *On [REDACTED]*

4. SIGNATURE OF APPLICANT:

PROJECT DESCRIPTION: (PLEASE CHECK APPLICABLE WORK & DESCRIBE)

***NEW BUILDING:** **X** ***ADDITION** ***ALTERATION**

POOL: ABOVE GROUND _____ IN GROUND _____ FENCE: HEIGHT: _____

HEIGHT: 31.65 FT. 44 KIDS
(*E APPLICABLE)

F120M 88F3E

OTHER

DESCRIPTION: SINGLE FAMILY DWELLING WITH DECK

ZONING REVIEW: 9-10-14

DATE APPROVED. 9-10-14

DATE:

(SEE BACK PAGE)



Brick Township
401 Chambers Bridge Rd.

Brick, NJ 08723
(732) 262-1336

Date Issued: _____
Application Number: ZA-14-01129
Application Date: 09/10/2014
Project Number: _____
Permit Number: _____
Fee: \$50

Zoning Permit

Worksite **27 Brower Dr.**
Location: **Brick, NJ 08723**

Block: 89.01
Lot: 40
Qualifier: _____
Zone: R-5

Owner: **NATALE, DION**
Address: **2378 WALDHEIM AVE**
SCOTCH PLAINS, NJ 07076

Applicant: **NATALE, DION**
Address: **2378 WALDHEIM AVE**
SCOTCH PLAINS, NJ 07076

Application Approved Date: 09/10/2014

This Certifies that an application for the issuance of a Zoning Permit has been examined.

Use is: Single-Family Residential Existing building to be removed

Nonconforming Use is: _____

Work Description:

New Building, Deck/Porch, Air-Conditioner Condenser Unit -

Constructing a 2699 sq.ft. two-story single family dwelling 39.65' to the peak, with landings, steps and deck to meet the required flood elevation Ordinance. The front access staircase cannot exceed 100 sq.ft. in area, may project no further than 10' into a required front yard setback area. The rear access staircase cannot exceed 50 sq.ft. in area, may project no further than 5' into a required rear yard setback area.

The minimum front yard setback is 20', the minimum side yard is 5' with a combination of 12' and the minimum rear yard setback is 15' from property line and bulkhead.

A deed consolidating Lot 40 and Lot 41 into a single lot must be filed with the Ocean County Clerk and a copy submitted to the Brick Township Tax Assessor.

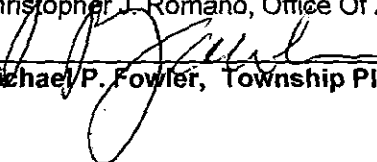
Additional Zoning permit required for any other work done on property.

Upon review it was determined that the Zoning Permit:

- ☒ Permitted by Ordinance
☐ Permitted by Variance approved on: _____
☐ Valid Nonconforming Use is established by
 ☐ Zoning Board of Adjustment
 ☐ Zoning Officer



Christopher J. Romano, Office Of Zoning



Michael P. Fowler, Township Planner

09/10/2014

Date

9/15/14
Date



**Walter J. Hessberger, AIA
Architect**

2715 Hooper Ave., Suite 2C
PO Box 450
Brick, New Jersey 08723
Phone: (732) 262-7444
Fax: (732) 262-1312
E-mail: wjhessberger@gmail.com

October 20, 2014

Construction Dept.
Brick Township
401 Chambersbridge Rd.
Brick, N.J. 08723

Re: Natale Residence
27 Brower Dr.
Blk 89.01 Lot 40
Control No. C-14-003992

Dear Thomas Olson,

This is in response to the Electrical Subcode review dated Oct. 3, 2014.

Elevator motor is 2 HP & is located at the top of the elevator shaft.

Electric panel is located in the adjacent Utility room on the 2nd floor & has a 30 amp dedicated circuit.

This information will be added to the plans & the permit tech.

Very truly yours,

A handwritten signature in dark ink, appearing to read 'Walter J. Hessberger', with a stylized flourish at the end.

Walter J. Hessberger, AIA

**** Transmit Confirmation Report ****

P.1
BRICK TWP BUILDING DEP Fax:732-262-2941

Oct 9 2014 02:47pm

Name/Fax No.	Mode	Start	Time	Page	Result	Note
7322621312	Normal	09,02:45pm	2'10"	4	O K	



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723
(732) 262-1030

Subcode Official Review

Date: Tuesday, October 07, 2014

To: NATALE, DION
2378 WALDHEIM AVE
SCOTCH PLAINS, NJ 07076

RE: Plumbing Subcode
Block: 89.01 Lot: 40 Qual:
27 BROWER DR.
Permit Number: Control Number: C-14-003992
Last Submit Date: Friday, October 03, 2014

Dear NATALE, DION,

Your request is hereby denied based upon the following infractions.

Water and sewer permits must be obtained from the BTMUA prior to the issuance of this permit.

Sincerely,

State Inspector, Subcode Official

CC:



**Walter J. Hessberger, AIA
Architect**

2715 Hooper Ave., Suite 2C
PO Box 450
Brick, New Jersey 08723
Phone: (732) 262-7444
Fax: (732) 262-1312
E-mail: wjhessberger@gmail.com

October 30, 2014

Construction Dept.
Brick Township
401 Chambersbridge Rd.
Brick, N.J. 08723

Re: Natale Residence
27 Brower Dr.
Blk. 89.01 Lot 40
Control No. C-14-003992

Subcode Official,

This is in response to the Building Subcode review dated Oct. 2, 2014.

- The grade level entry will be heated and will be separated from the Garage & other grade level spaces with 1 hour fire walls. The floor elevation will be raised above flood elevation (8.0 ft) & therefore will not require flood vents.
- Egress windows are not required on first floor, the Master Bedroom has sliding doors to an exterior deck. Headers will be shown over openings.
- Framing for the entry vestibule/elevator shaft are shown on the floor plans on drawings 2 of 6 & 3 of 6 and the roof framing is shown on drawing 4 of 6.
- Braced Wall Panel construction information & Fastener Schedule for Structural Members have been added to drawing 3 of 6
- Wall finishes below base flood elevation will be changed to Densglas & studs will be pressure treated.

Two signed & sealed sets of revised drawings are enclosed.

Very truly yours,


Walter J. Hessberger, AIA



Walter J. Hessberger, AIA
Architect

2715 Hooper Ave., Suite 2C
PO Box 450
Brick, New Jersey 08723
Phone: (732) 262-7444
Fax: (732) 262-1312
E-mail: wjhessberger@gmail.com

October 30, 2014

Construction Dept.
Brick Township
401 Chambersbridge Rd.
Brick, N.J. 08723

Re: Natale Residence
27 Brower Dr.
Blk 89.01 Lot 40
Control No. C-14-003992

Dear Richard Orlando,

This is in response to the Fire Subcode review dated Oct. 2, 2014

1. The ceiling of the entire grade level space will have 2 layers of type X gypsum wallboard, and the walls surrounding the Entry Vestibule, Stair & Elevator Shaft will have a 1 hr fire rating & the wall between the garage & the adjoining spaces will have 5/8" type X gypsum board on the garage side.

Very truly yours,


Walter J. Hessberger, AIA



**Walter J. Hessberger, AIA
Architect**

2715 Hooper Ave., Suite 2C
PO Box 450
Brick, New Jersey 08723
Phone: (732) 262-7444
Fax: (732) 262-1312
E-mail: wjhessberger@gmail.com

October 30, 2014

Construction Dept.
Brick Township
401 Chambersbridge Rd.
Brick, N.J. 08723

Re: Natale Residence
27 Brower Dr.
Blk 89.01 Lot 40
Control No. C-14-003992

Dear Thomas Olson,

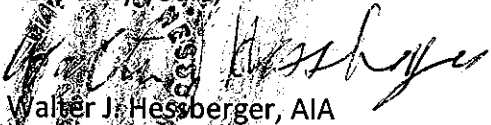
This is in response to the Electrical Subcode review dated Oct. 3, 2014.

Elevator motor is 2 HP & is located at the top of the elevator shaft.

Electric panel is located in the adjacent Utility room on the 2nd floor & has a 30 amp dedicated circuit.

This information has been added to the plans & the permit tech.

Very truly yours,


Walter J. Hessberger, AIA



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723
(732) 262-1030

Subcode Official Review

Date: Thursday, October 02, 2014

To: NATALE, DION
2378 WALDHEIM AVE
SCOTCH PLAINS, NJ 07076

RE: Fire Subcode
Block: 89.01 Lot: 40 Qual:
27 BROWER DR.
Permit Number: Control Number: C-14-003992
Last Submit Date: Thursday, October 02, 2014

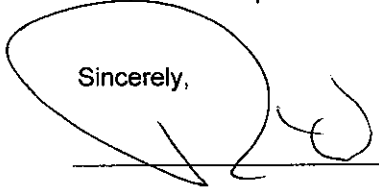
*Resubmit
10/22/14
LH*

Dear NATALE, DION,

Your request is hereby denied based upon the following infractions.

1. How will compliance for FTO-13 be met for 1 hour fire resistance rating for garage area

Sincerely,


Richard Orlando, Subcode Official

CC:



Walter J. Hessberger, AIA

Architect

2715 Hooper Ave., Suite 2C

PO Box 450

Brick, New Jersey 08723

Phone: (732) 262-7444

Fax: (732) 262-1312

E-mail: wjhessberger@gmail.com

October 20, 2014

Construction Dept.
Brick Township
401 Chambersbridge Rd.
Brick, N.J. 08723

Re: Natale Residence
27 Brower Dr.
Blk 89.01 Lot 40
Control No. C-14-003992

Dear Richard Orlando,

This is in response to the Fire Subcode review dated Oct. 2, 2014

1. The ceiling of the entire grade level space will have 2 layers of type X gypsum wallboard, and the walls surrounding the Entry Vestibule, Stair & Elevator Shaft will have a 1 hr fire rating & the wall between the garage & the adjoining spaces will have 5/8" type X gypsum board on the garage side.

Very truly yours,


Walter J. Hessberger, AIA



Walter J. Hessberger, AIA
Architect

2715 Hooper Ave., Suite 2C
PO Box 450
Brick, New Jersey 08723
Phone: (732) 262-7444
Fax: (732) 262-1312
E-mail: wjhessberger@gmail.com

October 20, 2014

Construction Dept.
Brick Township
401 Chambersbridge Rd.
Brick, N.J. 08723

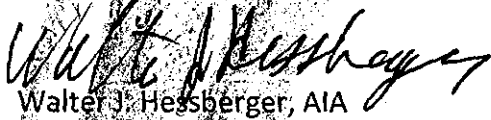
Re: Natale Residence
27 Brower Dr.
Blk 89.01 Lot 40
Control No. C-14-003992

Dear Richard Orlando,

This is in response to the Fire Subcode review dated Oct. 2, 2014

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Very truly yours,


Walter J. Hessberger, AIA



2009 INTERNATIONAL
RESIDENTIAL CODE®
FOR ONE- AND TWO-FAMILY DWELLINGS
PLAN REVIEW RECORD

Plan Review # 074003992

Date: 09.30.2014

Valuation: _____

Fee: _____

JURISDICTION: Brockton
(City, County, Township, etc.)

BUILDING LOCATION: 27 BRAVER DRIVE
(Street address)

BUILDING DESCRIPTION: NSPD

REVIEWED BY: SKILCHSKI, BUILDING

Numerals indicated in parenthesis are applicable code sections of the 2009 *International Residential Code*. The plan review accomplished as indicated in this record is limited to those code sections specifically identified herein. This record references commonly applicable code sections with due regard for the amount and type of detailed information which is typically found on construction documents for one and two family dwellings and townhouses. It does not reference all code provisions which may be applicable to specific buildings. This record is designed to be used only by those who are knowledgeable and capable of exercising competent judgement in evaluating construction documents for code compliance.

CORRECTION LIST

No.	DESCRIPTION	Code Section
	<u>BUILDING</u>	
①	Provide Res chd & energy certificate in jacket	
②	Provide 20 minute door <u>Provide 20 minute door on top of stairs cannot have</u> <u>grade level entry connected to 1st floor heated space</u>	
③	<u>Label egress windows and headers on floor plan.</u>	
④	<u>Provide Framing details for front entry / vestibule /</u> <u>Elevation shaft, and roof framing.</u>	
⑤	<u>Provide BRACED WALL CALCULATIONS AND DETAILS</u>	
⑥	<u>Remove Sheetrock notes to garage partition walls below</u> <u>Basement.</u>	



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PHONE 1-888-ICC-SAFE • WWW.ICCSAFE.ORG

ISBN 978-1-58001-951-4



Item No. 0102PR09

THE BRICK TOWNSHIP MUNICIPAL UTILITIES AUTHORITY

1551 HIGHWAY 88 EAST
BRICK, NEW JERSEY 08724
(908) 458-7000

Walter 262-7444

STATEMENT OF UTILITY SERVICES

APPLICANT: NAME: Dion Natale PHONE NO. _____ (bus.)

ADDRESS: 2378 Waldheim Ave _____ (home)

Scotch Plains NJ 07076-2152

PROPERTY IN QUESTION: ADDRESS 27 Brower Dr

BLOCK(S) 89.01 LOT(S) 40

BTMUA ACCOUNT NO. 3316808-0 TAX MAP DRAWING NO. 14.03

SINGLE FAMILY RESIDENCE ☒

MINOR SUBDIVISION _____

COMMERCIAL _____

MAJOR SUBDIVISION _____

*** LOT HAS EXISTING SERVICE**

1. UTILITY SERVICE CAN BE PROVIDED. APPLICATION FOR SERVICE IS REQUIRED.

WATER _____ SEWER _____

☒ ☒

CONNECTION WILL BE PROVIDED AS FOLLOWS:

INITIAL SERVICE CHARGES

*** WATER BROWER DRIVE 3/4"**
(STREET) 3/4" 3541.00 1" 6212.00

*** SEWER BROWER DRIVE**
(STREET) 3595.00

2. UTILITY SERVICE CANNOT BE PROVIDED AT THIS DATE.
APPLICATION FOR EXTENSION IS ☐ IS NOT ☐ REQUIRED.

3. UTILITY SERVICE CANNOT BE PROVIDED AT THIS DATE. IT SHALL BE
AVAILABLE UPON COMPLETION OF WORK BY A DEVELOPER UNDER
APPLICATION NO. _____ CONTACT THE AUTHORITY
TO CONFIRM AVAILABILITY OF SERVICES.

DATE: 9/5/2014

SIGNED: Paul Gutzstaff

NOTE: STATEMENT GOOD FOR ONE YEAR.

9/4/2014 PM

27 BROWER DR		UPDATED: 08/19/08			
R01	3316808-0		PAMS: 89.01_40		
NOTES:		*WATER VERY CLOSE TO POLE			
	POS	LEFT	RIGHT	LENGTH	DEPTH
SEWER	F	58.0	35.0	17.0	4.0
WATER	F	74.6	31.0	27.0	3.5
BILLING ADDRESS			OWNER ADDRESS		
NATALE, DION			NATALE, DION		
2378 WALDHEIM AVE			2378 WALDHEIM AVE		
SCOTCH PLAINS NJ 07076-2152			SCOTCH PLAINS NJ 07076-2152		

8 MARY ANN DR.
92.06-13

10 MARY ANN DR.
92.06-12

12 MARY ANN DR.
92.06-11

14 MARY ANN DR.
92.06-10

16 MARY ANN DR.
92.06-9

18 MARY ANN DR.
92.06-8

33 BROWER DR.
89.01-37

31 BROWER DR.
89.01-38.01

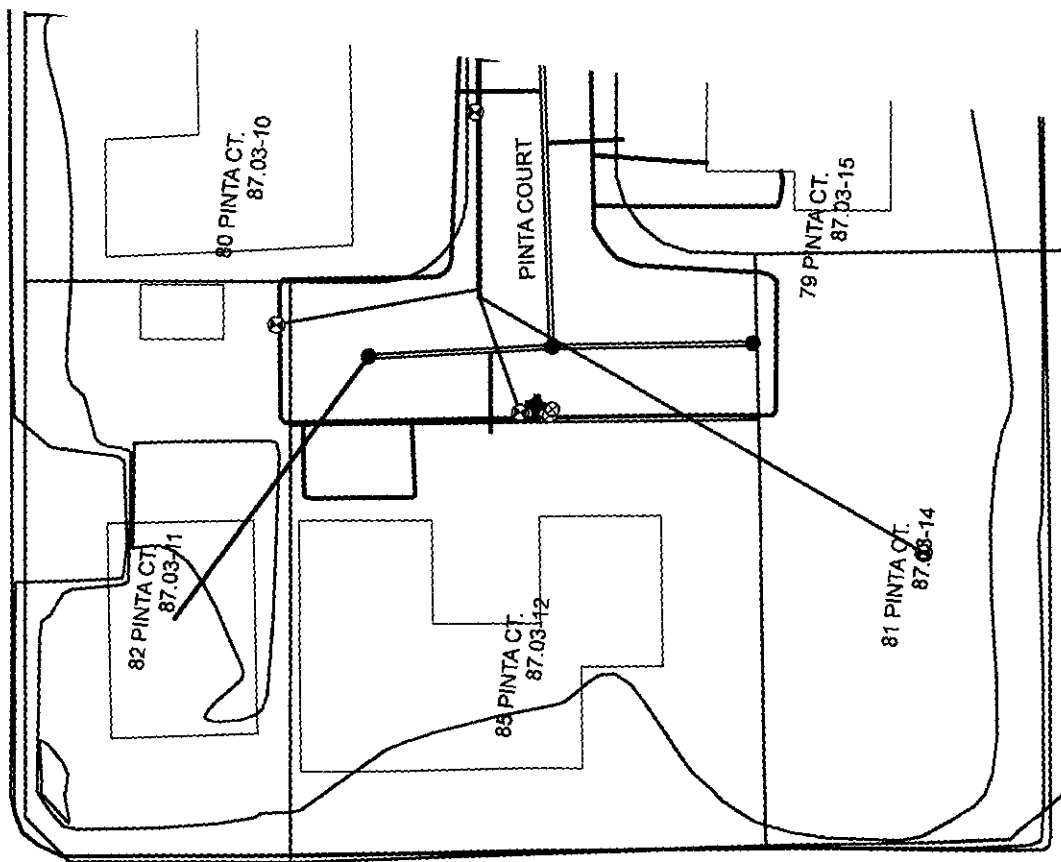
27 BROWER DR.
89.01-40

25 BROWER DR.
89.01-41.01

19 BROWER DR.
89.01-43.01

17 BROWER DR.
89.01-45

BROWER DRIVE



ATTACHMENT 'A'

If during construction the existing sanitary sewer clean out and water service curb box is found to be located in the driveway apron or walkways, the applicant will be required to re-locate the sewer clean out and/or water curb box at the applicant's expense.

SIZING FOR WATER AND SEWER SERVICES

PROPERTY OWNER Dion Ntate DATE 12-1-14

PROPERTY ADDRESS 27 Brower Dr BLOCK 8901 LOT 40

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>2.5</u>	()	<u>8</u>	()	_____
2. KITCHEN GROUP	<u>1</u>	()	<u>2</u>	()	_____
3. WATER CLOSETS	_____	()	_____	()	_____
4. LAVATORY	_____	()	_____	()	_____
5. BATH TUB	_____	()	_____	()	_____
6. SHOWER STALL	_____	()	_____	()	_____
7. KITCHEN <u>BAR</u> SINK	<u>1</u>	()	<u>1</u>	()	_____
8. SERVICE SINK	_____	()	_____	()	_____
9. LAUNDRY TRAY	_____	()	_____	()	_____
10. DISHWASHER	_____	()	_____	()	_____
11. WASHING MACHINE	<u>1</u>	()	<u>4</u>	()	_____
12. URINAL	_____	()	_____	()	_____
13. FLOOR DRAIN	_____	()	_____	()	_____
14. DRINK FOUNTAIN	_____	()	_____	()	_____
15. AIR CONDITION WATER COOLED	_____	()	_____	()	_____
16. DENTAL UNIT	_____	()	_____	()	_____
17. LAWN SPRINKLE	_____	()	_____	()	_____
18. FIRE SPRINKLE	_____	()	_____	()	_____
19. HOSE BIBS	<u>2</u>	()	<u>3.5</u>	()	_____

TOTALS 18.5

GALLONS PER MINUTE _____

SIZE of SERVICE 1" meter 3/4"

DATE: 12-1-14

APPROVED BY: [Signature]

** Transmit Confirmation Report **

P.1
BRICK TWP BUILDING DEP Fax:732-262-2941

Dec 1 2014 11:28am

Name/Fax No.	Mode	Start	Time	Page	Result	Note
7324585378	Normal	01,11:28am	0'14"	1	# 0 K	

SIZING FOR WATER AND SEWER SERVICES

PROPERTY OWNER Dan Natate DATE 12-1-14

PROPERTY ADDRESS 27 Brewer Dr BLOCK 890 LOT 40

ZONING _____ USE GROUP _____

CONTRACTOR _____ LICENSE # REGISTRATION _____

WATER MAIN SIZE _____ WATER PRESSURE _____ SEWER MAIN SIZE _____

PLUMBING FIXTURES	NUMBER	(sfu)	WATER UNITS	(dfu)	DRAINAGE
1. BATHROOM GROUP	<u>2.5</u>	()	<u>8</u>	()	_____
2. KITCHEN GROUP	<u>1</u>	()	<u>2</u>	()	_____
3. WATER CLOSETS	_____	()	_____	()	_____
4. LAVATORY	_____	()	_____	()	_____
5. BATH TUB	_____	()	_____	()	_____
6. SHOWER STALL	_____	()	_____	()	_____
7. KITCHEN SINK	<u>1</u>	()	<u>1</u>	()	_____
8. SERVICE SINK	_____	()	_____	()	_____
9. LAUNDRY TRAY	_____	()	_____	()	_____
10. DISHWASHER	_____	()	_____	()	_____
11. WASHING MACHINE	<u>1</u>	()	<u>4</u>	()	_____
12. URINAL	_____	()	_____	()	_____
13. FLOOR DRAIN	_____	()	_____	()	_____
14. DRINK FOUNTAIN	_____	()	_____	()	_____
15. AIR CONDITION WATER COOLED	_____	()	_____	()	_____
16. DENTAL UNIT	_____	()	_____	()	_____
17. LAWN SPRINKLE	_____	()	_____	()	_____
18. FIRE SPRINKLE	_____	()	_____	()	_____
19. HOSE BIBS	<u>2</u>	()	<u>3.5</u>	()	_____

TOTALS

18.5

GALLONS PER MINUTE

SIZE of SERVICE

1" meter 3/4"

DATE: 12-1-14

APPROVED BY:

[Signature]



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723
(732) 262-1030

*faxed all 10/9/14 (M)
11/1/14 - Spoke to Mrs. Natale
She will pick up permits*

Subcode Official Review

Date: Tuesday, October 07, 2014

To: NATALE, DION
2378 WALDHEIM AVE
SCOTCH PLAINS, NJ 07076

RE: Plumbing Subcode
Block: 89.01 Lot: 40 Qual:
27 BROWER DR.
Permit Number: Control Number: C-14-003992
Last Submit Date: Friday, October 03, 2014

Dear NATALE, DION,

Your request is hereby denied based upon the following infractions.

Water and sewer permits must be obtained from the BTMUA prior to the issuance of this permit.

Sincerely,

State Inspector, Subcode Official

CC:



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723
(732) 262-1030

Subcode Official Review

Date: Friday, October 24, 2014

To: NATALE, DION
2378 WALDHEIM AVE
SCOTCH PLAINS, NJ 07076

RE: Building Subcode
Block: 89.01 Lot: 40 Qual:
27 BROWER DR.
Permit Number: Control Number: C-14-003992
Last Submit Date: Friday, October 24, 2014

*Resubmit
10/30/14
LH*

Dear NATALE, DION,

Your request is hereby denied based upon the following infractions.

Provide rated 20 minute door at all the 1hour rated assembly's ground floor, 1st and 2nd floor.

Provide dimensions for all exterior wall openings.

(Provide deck landings, stair and post connection w/dimensions.)

Provide fastening schedule or details for shearwall and uplift ledgers.

Provide ridge beam dimensions.

Sincerely,

State Inspector, Subcode Official

CC:

**** Transmit Confirmation Report ****

P.1
BRICK TWP BUILDING DEP Fax:732-262-2941

Nov 12 2014 11:48am

Name/Fax No.	Mode	Start	Time	Page	Result	Note
7322621312	Normal	12,11:47am	1'12"	2	O K	



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723
(732) 262-1030

*fax 732-262-1312 11/12
2 PAGES L H*

Subcode Official Review

Date: Friday, November 07, 2014

To: NATALE, DION
2378 WALDHEIM AVE
SCOTCH PLAINS, NJ 07076

RE: Building Subcode
Block: 89.01 Lot: 40 Qual:
27 BROWER DR.
Permit Number: Control Number: C-14-003992
Last Submit Date: Wednesday, November 05, 2014

Dear NATALE, DION,

Your request is hereby denied based upon the following infractions.

Please provide continuous load tie down path for all exterior deck components as per ASCE 24-1.5.5

Please provide exterior deck ledger detail including shear, uplift and tie down for floor joist to girder, girder to post, post to sonotube and stringer to rim joist. As per IRC Fig. 502.2..2.3, R502.9

Please provide dimension for all egress windows or submit cut sheets for window used as per IRC R310.1.1

Sincerely,

State Inspector, Subcode Official

CC:



**2009 INTERNATIONAL
RESIDENTIAL CODE®
FOR ONE- AND TWO-FAMILY DWELLINGS
PLAN REVIEW RECORD**

Plan Review # _____
Date: 11/7/14
Valuation: _____
Fee: _____

JURISDICTION: _____

BUILDING LOCATION: 27 Bower Dr
(City, County, Township, etc.)
(Street address)

BUILDING DESCRIPTION: NSFD

REVIEWED BY: DSA

Numerals indicated in parenthesis are applicable code sections of the 2009 *International Residential Code*. The plan review accomplished as indicated in this record is limited to those code sections specifically identified herein. This record references commonly applicable code sections with due regard for the amount and type of detailed information which is typically found on construction documents for one and two family dwellings and townhouses. It does not reference all code provisions which may be applicable to specific buildings. This record is designed to be used only by those who are knowledgeable and capable of exercising competent judgement in evaluating construction documents for code compliance.

CORRECTION LIST		
No.	DESCRIPTION	Code Section
①	D.P. Failed to Answer Num 3 of comments Please provide continuous Load tie down path for All Exterior Deck components AS per ASCE 24 - 15.5	
②	Please provide Ext Deck Ledger Detail including shear, uplift & tie Down for Flr Joist to girder, girder to post, post to sonotube & AS per IRC Fig 502.2-2.3, R502.9	
③	Please provide Dimension for All Egress Windows or submit cut sheets for windows used. AS per IRC R310.1.1	
	stringer to rim joist	



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INTERNATIONAL CODE COUNCIL, INC.
PHONE 1-888-ICC-SAFE • WWW.ICCSAFE.ORG

ISBN 978-1-58001-951-4



Item No. 0102PR09

**2009 INTERNATIONAL
RESIDENTIAL CODE®
FOR ONE- AND TWO-FAMILY DWELLINGS
PLAN REVIEW RECORD**

Plan Review # _____
Date: 10/24/14
Valuation: _____
Fee: _____

JURISDICTION: WYOMING
(City, County, Township, etc.)

BUILDING LOCATION: 27 Brower
(Street address)

BUILDING DESCRIPTION: NSFD

REVIEWED BY: DSA

Numerals indicated in parenthesis are applicable code sections of the 2009 *International Residential Code*. The plan review accomplished as indicated in this record is limited to those code sections specifically identified herein. This record references commonly applicable code sections with due regard for the amount and type of detailed information which is typically found on construction documents for one and two family dwellings and townhouses. It does not reference all code provisions which may be applicable to specific buildings. This record is designed to be used only by those who are knowledgeable and capable of exercising competent judgement in evaluating construction documents for code compliance.

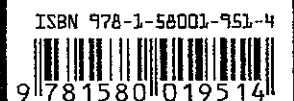
CORRECTION LIST

No.	DESCRIPTION	1 HR	Code Section
	Provide rated 20 min door at All rated Assembly's ground floor, 1 st Flr + 2 nd Flr.		
	Provide dimensions for All Ext wall openings		
	Provide Deck, landings, stair + post connection w/ dimensions		
	Provide fastening schedule or details for shear wall & uplift & ledgers		
	Provide ridge beam dimensions		



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INTERNATIONAL CODE COUNCIL, INC.
PHONE 1-888-ICC-SAFE • WWW.ICCSAFE.ORG



Item No. 0102PR09



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723
(732) 262-1030

Subcode Official Review

Resubmit
10/20/14
LH

Date: Thursday, October 02, 2014

To: NATALE, DION
2378 WALDHEIM AVE
SCOTCH PLAINS, NJ 07076

RE: Building Subcode
Block: 89.01 Lot: 40 Qual:
27 BROWER DR.
Permit Number: Control Number: C-14-003992
Last Submit Date: Wednesday, September 24, 2014

Dear NATALE, DION,

Your request is hereby denied based upon the following infractions.

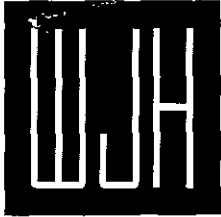
Provide 20 minute door at top of stairs, cannot have grade level entry connected to first floor heated space. *Ground Level Door From Gar/storage*
Label egress windows and headers on first floor plan. *Need Dimension for all openings window & sliders*
Provide framing details for front entry/vesibule/elevator shaft and roof framing. *Ridge Dimension*
Provide braced wall calculations and details. *For shear & uplift*
Remove sheetrock notes to garage partition walls below base flood. *ok*

Sincerely,

State Inspector, Subcode Official

CC:

*Spoke w/walter AIA on
10/24/14. He will re-submit drawings
& reply to comments DSA*



Walter J. Hessberger, AIA
Architect

2715 Hooper Ave., Suite 2C
PO Box 450
Brick, New Jersey 08723
Phone: (732) 262-7444
Fax: (732) 262-1312
E-mail: wjhessberger@gmail.com

October 20, 2014

Construction Dept.
Brick Township
401 Chambersbridge Rd.
Brick, N.J. 08723

Re: Natale Residence
27 Brower Dr.
Blk. 89.01 Lot 40
Control No. C-14-003992

Subcode Official,

This is in response to the Building Subcode review dated Oct. 2, 2014.

- The grade level entry will be heated and will be separated from the Garage & other grade level spaces with 1 hour fire walls. The floor elevation will be raised above flood elevation (8.0 ft) & therefore will not require flood vents.
- Egress windows are not required on first floor, the Master Bedroom has sliding doors to an exterior deck. Headers will be shown over openings.
- Framing for the entry/vestibule/elevator shaft are shown on the floor plans on drawings 2 of 6 & 3 of 6 and the roof framing is shown on drawing 4 of 6.
- Please advise as to what braced walls you want calculations for.
- Wall finishes below base flood elevation will be changed to Densglas & studs will be pressure treated.

Revised drawings will be submitted when above items are resolved / approved.

Very truly yours,


Walter J. Hessberger, AIA



Walter J. Hessberger, AIA
Architect
2715 Hooper Ave., Suite 2C
PO Box 450
Brick, New Jersey 08723
Phone: (732) 262-7444
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October 20, 2014

Construction Dept.
Brick Township
401 Chambersbridge Rd.
Brick, N.J. 08723

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27 Brower Dr.
Blk. 89.01 Lot 40
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Revised drawings will be submitted when above items are resolved / approved.

Very truly yours,


Walter J. Hessberger, AIA



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Architect

2715 Hooper Ave., Suite 2C

PO Box 450

Brick, New Jersey 08723

Phone: (732) 262-7444

Fax: (732) 262-1312

E-mail: wjhessberger@gmail.com

October 30, 2014

Construction Dept.
Brick Township
401 Chambersbridge Rd.
Brick, N.J. 08723

Re: Natale Residence
27 Brower Dr.
Blk. 89.01 Lot 40
Control No. C-14-003992

Subcode Official,

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- Egress windows are not required on first floor, the Master Bedroom has sliding doors to an exterior deck. Headers will be shown over openings.
- Framing for the entry vestibule/elevator shaft are shown on the floor plans on drawings 2 of 6 & 3 of 6 and the roof framing is shown on drawing 4 of 6.
- Braced Wall Panel construction information & Fastener Schedule for Structural Members have been added to drawing 3 of 6
- Wall finishes below base flood elevation will be changed to Densglas & studs will be pressure treated.

Two signed & sealed sets of revised drawings are enclosed.

Very truly yours,

A handwritten signature in dark ink, appearing to read 'Walter J. Hessberger', is written over a faint, circular official seal. The seal contains some text that is mostly illegible due to the signature and the quality of the scan.

Walter J. Hessberger, AIA



Walter J. Hessberger, AIA
Architect

2715 Hooper Ave., Suite 2C
PO Box 450
Brick, New Jersey 08723
Phone: (732) 262-7444
Fax: (732) 262-1312
E-mail: wjhessberger@gmail.com

October 30, 2014

Construction Dept.
Brick Township
401 Chambersbridge Rd.
Brick, N.J. 08723

Re: Natale Residence
27 Brower Dr.
Blk 89.01 Lot 40
Control No. C-14-003992

Dear Richard Orlando,

This is in response to the Fire Subcode review dated Oct. 2, 2014

1. The ceiling of the entire grade level space will have 2 layers of type X gypsum wallboard, and the walls surrounding the Entry Vestibule, Stair & Elevator Shaft will have a 1 hr fire rating & the wall between the garage & the adjoining spaces will have 5/8" type X gypsum board on the garage side.

Very truly yours,


Walter J. Hessberger, AIA



**Walter J. Hessberger, AIA
Architect**

2715 Hooper Ave., Suite 2C
PO Box 450
Brick, New Jersey 08723
Phone: (732) 262-7444
Fax: (732) 262-1312
E-mail: wjhessberger@gmail.com

October 30, 2014

Construction Dept.
Brick Township
401 Chambersbridge Rd.
Brick, N.J. 08723

Re: Natale Residence
27 Brower Dr.
Blk 89.01 Lot 40
Control No. C-14-003992

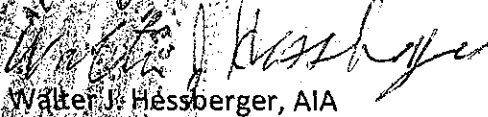
Dear Thomas Olson,

This is in response to the Electrical Subcode review dated Oct. 3, 2014.

Elevator motor is 2 HP & is located at the top of the elevator shaft.
Electric panel is located in the adjacent Utility room on the 2nd floor & has a 30 amp dedicated circuit.

This information has been added to the plans & the permit tech.

Very truly yours,


Walter J. Hessberger, AIA



Walter J. Hessberger, AIA
Architect

2715 Hooper Ave., Suite 2C
PO Box 450
Brick, New Jersey 08723
Phone: (732) 262-7444
Fax: (732) 262-1312
E-mail: wjhessberger@gmail.com

November 18, 2014

Construction Dept.
Brick Township
401 Chambersbridge Rd.
Brick, N.J. 08723

Re: Natale Residence
27 Brower Dr.
Blk. 89.01 Lot 40
Control No. C-14-003992

Subcode Official,

This is in response to the Building Subcode review dated Nov. 7, 2014

Details for continuous load tie down have been added to drawings. *ok*

Details have been added to show deck ledger, shear & uplift ties as per IRC fig. 502.2.2.3 & R502.9. *ok*

Enclosed are 2 copies of drawings 2 of 6 & 6 of 6 showing the above mentioned details. *ok*

Enclosed are 2 copies of Andersen windows cut sheet showing dimensions for Egress Windows CW235 & CXW135 *ok*

Very truly yours,

Walter J. Hessberger
Walter J. Hessberger, AIA

DSA 11/21/14



Walter J. Hessberger, AIA

Architect

2715 Hooper Ave., Suite 2C

PO Box 450

Brick, New Jersey 08723

Phone: (732) 262-7444

Fax: (732) 262-1312

E-mail: wjhessberger@gmail.com

November 18, 2014

Construction Dept.
Brick Township
401 Chambersbridge Rd.
Brick, N.J. 08723

Re: Natale Residence
27 Brower Dr.
Blk. 89.01 Lot 40
Control No. C-14-003992

Subcode Official,

This is in response to the Building Subcode review dated Nov. 7, 2014.

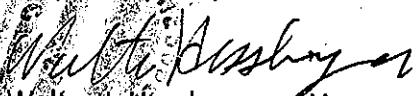
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Enclosed are 2 copies of Andersen windows cut sheet showing dimensions for Egress Windows CW235 & CXW135

Very truly yours,


Walter J. Hessberger, AIA

5'-11 7/8" (1826) 6'-0 3/8" (1838) 67 1/16" (1703) CR16 CN16 C16 CW16† CX16 CXW16** CR26 CN26 C26 CW26†	5'-4 13/16" (1646) 5'-5 7/8" (1660) 60" (1524) CR155 CN155 C155 CW155† CX155 CXW155** CR255 CN255 C255 CW255†	4'-11 7/8" (1521) 5'-0 3/8" (1534) 55 1/16" (1399) CR15 CN15 C15 CW15† CX15 CXW15** CR25 CN25 C25 CW25†	4'-4 13/16" (1341) 4'-5 3/8" (1356) 48" (1219) CR145 CN145 C145 CW145† CX145 CXW145 CR245 CN245 C245 CW245†	4'-0" (1219) 4'-0 1/2" (1232) 43 3/16" (1097) CR14 CN14 C14 CW14† CX14 CXW14 CR24 CN24 C24 CW24†	3'-4 13/16" (1037) 3'-5 3/8" (1051) 36" (914) CR135 CN135 C135 CW135† CX135** CXW135 CR235 CN235 C235 CW235†
--	--	--	--	---	---

* "Unobstructed Glass" measurement is for single sash only.

** These units have straight arm operators, see opening specifications.

† CW series units (except CW2, CW25 and CW3 height) open to 20" clear opening width using sill hinge control bracket. Bracket can be pivoted allowing for cleaning position.

‡ CW series units are also available with a 22" clear opening width.

Andersen® air glass panels are available for these units by special order only. Contact your Andersen® supplier. Panels are available for all other units on this page through normal ordering process.

Visit andersenwindows.com/airglass for patterns.

These units meet or exceed the following dimensions: Clear Operable Area of 5.7 sq. ft., Clear Operable Width of 20" and Clear Operable Height of 24" when appropriate hardware (straight arm or split arm) is specified.

Rough opening dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See page 13 for more details.

"Unit Dimension" always refers to outside frame to frame dimension.

Dimensions in parentheses are in millimeters.

When ordering, be sure to specify color desired: White, Sandstone, Terracotta® or Forest Green.

5'-11 7/8" (1826) 6'-0 3/8" (1838) 67 1/16" (1703) CR16	5'-4 13/16" (1646) 5'-5 3/8" (1660) 60" (1524) CR155	4'-11 7/8" (1521) 5'-0 3/8" (1534) 55 1/16" (1399) CR15	4'-4 13/16" (1341) 4'-5 3/8" (1356) 48" (1219) CR145	4'-0" (1219) 4'-0 1/2" (1232) 43 3/16" (1097) CR14	3'-4 13/16" (1037) 3'-5 3/8" (1051) 36" (914) CR135
CN16	CN155	CN15	CN145	CN14	CN135
C16	C155	C15	C145	C14	C135
CW16†	CW155†	CW15†	CW145†	CW14†	CW135†
CX16	CX155	CX15	CX145	CX14	CX135***
CXW16***	CXW155***	CXW15***	CXW145	CXW14	CXW135
CR26	CR255	CR25	CR245	CR24	CR235
CN26	CN255	CN25	CN245	CN24	CN235
C26	C255	C25	C245	C24	C235
CW26†	CW255†	CW25†	CW245†	CW24†	CW235†

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Brick Township
401 Chambersbridge Rd
Brick, NJ 08723
(732) 262-1030

Fax - 732-262-1312 11/12
2 PAGES L H

Subcode Official Review

Resubmit
11/19/14
L H

Date: Friday, November 07, 2014

To: NATALE, DION
2378 WALDHEIM AVE
SCOTCH PLAINS, NJ 07076

RE: Building Subcode
Block: 89.01 Lot: 40 Qual:
27 BROWER DR.
Permit Number: Control Number: C-14-003992
Last Submit Date: Wednesday, November 05, 2014

Dear NATALE, DION,

Your request is hereby denied based upon the following infractions.

Please provide continuous load tie down path for all exterior deck components as per ASCE 24-1.5.5

Please provide exterior deck ledger detail including shear, uplift and tie down for floor joist to girder, girder to post, post to sonotube and stringer to rim joist. As per IRC Fig. 502.2..2.3, R502.9

Please provide dimension for all egress windows or submit cut sheets for window used as per IRC R310.1.1

Sincerely,

State Inspector, Subcode Official

CC:



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723
(732) 262-1030

50 Longhill
252.18/64

Subcode Official Review

Date: Friday, October 03, 2014

To: NATALE, DION
2378 WALDHEIM AVE
SCOTCH PLAINS, NJ 07076

Resubmit
10/22/14
LA

RE: Electrical Subcode
Block: 89.01 Lot: 40 Qual:
27 BROWER DR.
Permit Number: Control Number: C-14-003992
Last Submit Date: Thursday, October 02, 2014

Dear NATALE, DION,

Your request is hereby denied based upon the following infractions.

- 1) Elevator on plans , motor for elevator not on permit tech

Sincerely,

Thomas Olson, Subcode Official

CC:



**Walter J. Hessberger, AIA
Architect**

2715 Hooper Ave., Suite 2C
PO Box 450
Brick, New Jersey 08723
Phone: (732) 262-7444
Fax: (732) 262-1312
E-mail: wjhessberger@gmail.com

October 20, 2014

Construction Dept.
Brick Township
401 Chambersbridge Rd.
Brick, N.J. 08723

Re: Natale Residence
27 Brower Dr.
Blk 89.01 Lot 40
Control No. C-14-003992

Dear Thomas Olson,

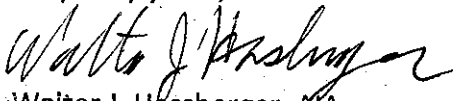
This is in response to the Electrical Subcode review dated Oct. 3, 2014.

Elevator motor is 2 HP & is located at the top of the elevator shaft.

Electric panel is located in the adjacent Utility room on the 2nd floor & has a 30 amp dedicated circuit.

This information will be added to the plans & the permit tech.

Very truly yours,


Walter J. Hessberger, AIA



REScheck Software Version 4.5.0 Compliance Certificate

Project Natale Residence

Energy Code: **2009 IECC**
Location: **Toms River, New Jersey**
Construction Type: **Single-family**
Project Type: **New Construction**
Conditioned Floor Area: **2,690 ft²**
Glazing Area: **14%**
Climate Zone: **4 (5294 HDD)**
Permit Date:
Permit Number:

Construction Site:
27 Brower Dr.
Brick, NJ 08723

Owner/Agent:
Dion Natale
27 Brower Dr.
Brick, NJ 08723
908-967-4770
dionsplumbing@gmail.com

Designer/Contractor:
Walter Hessberger
Walter J. Hessberger, AIA
2715 HOOPER AVE.
PO Box 450
Brick, NJ 08723
732-262-7444
wjhessberger@gmail.com

Compliance: Passes using UA trade-off

Compliance: **18.5% Better Than Code** Maximum UA: **464** Your UA: **378**

The % Better or Worse Than Code Index reflects how close to compliance the house is based on code trade-off rules.
It DOES NOT provide an estimate of energy use or cost relative to a minimum-code home.

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Glazing or Door U-Factor	UA
Ceiling 1: Flat Ceiling or Scissor Truss	721	25.0	1.5	0.038	27
Ceiling 2: Cathedral Ceiling	468	19.0	1.5	0.048	22
Wall 1: Wood Frame, 16" o.c.	1,847	21.0	1.5	0.052	96
Wall 2: Wood Frame, 16" o.c.	1,207	13.0	1.5	0.072	56
Window 1: Wood Frame:Double Pane with Low-E	131			0.300	39
Door 1: Glass	300			0.300	90
Floor 1: All-Wood Joist/Truss:Over Unconditioned Space	1,328	25.0	1.5	0.036	48

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 2009 IECC requirements in REScheck Version 4.5.0 and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

WALTER HESSBERGER
Name - Title
ARCHITECT

Signature

Date

8/27/14

Project Title: Natale Residence
Data filename: Untitled.rck

Report date: 08/13/14
Page 1 of 8



2009 IECC Energy Efficiency Certificate

Insulation Rating	R-Value
-------------------	---------

Wall	22.50
------	-------

Floor	26.50
-------	-------

Ceiling / Roof	26.50
----------------	-------

Ductwork (unconditioned spaces):	_____
----------------------------------	-------

Glass & Door Rating	U-Factor	SHGC
---------------------	----------	------

Window	0.30	
--------	------	--

Door	0.30	
------	------	--

Heating & Cooling Equipment	Efficiency
-----------------------------	------------

Heating System: _____	_____
-----------------------	-------

Cooling System: _____	_____
-----------------------	-------

Water Heater: _____	_____
---------------------	-------

Name: _____ Date: _____

Comments

GAS PIPE

DIAGRAM

RECEIVED BY PRICK

DATE

10/7/14

10/7/14

10/7/14

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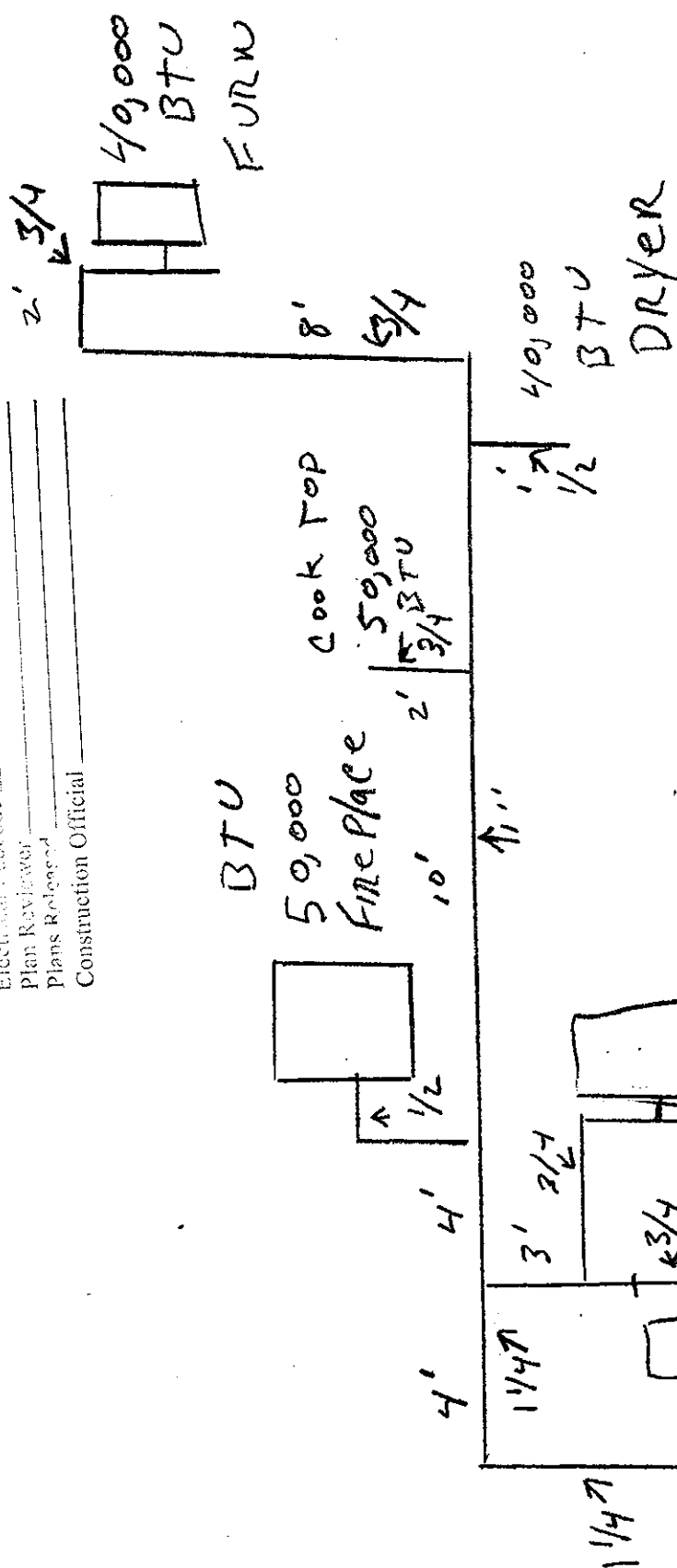
10/7/14

10/7/14

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10/7/14

10/7/14



Dion NATALIE 908-928-1228

27 Brower DR Brick Town

Dion Plumbing Lic 9455

DWV
System

VTR
R-2
vent

TOWNSHIP OF BRICK
RELEASED FOR PERMIT
INITIAL DATE

Building Subcode
Plumbing Subcode
Fire Subcode
Electrical Subcode
Plan Reviewer
Please Recheck

Construction Official

Basin

Shower
2"

Toilet

VTR

2"

VTR

1 1/2"

BATH
SINK

1 1/2" Kitchen
SINK

Shower

Basin

Toilet

Toilet

Master
BASIN

Wash Box

3"

3"

3"

3"

c/o

c/o

DION NATHAN 908 928-9228

27 Brower DR Bricktown

Dion Plumbing Lic
9455

ADDRESS: 24 Brower Dr

Township of Brick

Department of Land Use and Community Development

Construction Permit Fees:

Building	\$ <u>1554</u>
Electric	\$ <u>500</u>
Plumbing	\$ <u>588</u>
Fire	\$ <u>890</u>
State permit Fee	\$ <u>126.</u>
Certificate of Occupancy Fee	\$ <u>302.00</u>
Prototype Processing (less 20%)	\$ _____
State plan Review (less 20%)	\$ _____
Subtotal	\$ <u>3460</u>

Prior Approval Fees:

Zoning	\$ <u>50</u>
Engineering	\$ <u>150</u>
Subtotal	\$ <u>200</u>
Total Permit Fee	\$ <u>3660</u>

Please note payment for permits and affordable housing are SEPARATE.

Affordable Housing Fees:

Preliminary	\$ <u>958</u>
Final	\$ _____

Caller Name Nichol

Date 12/4/14

Spoke To (i.e. h/o or contr.) Spoke to H/o

Time 2:46



Receipt

Payment Date 12/08/2014

Transaction # PMT-14-09623

Receipt #

Issued To Dion Natale

Description Preliminary AH Fee \$958
Block 89.01 Lot 40
27 Brower Dr

Date Printed 12/08/2014

Check Number 136

Cash \$0.00

Check \$958.00

Charge \$0.00

Total Paid \$958.00

THE BRICK TOWNSHIP MUNICIPAL UTILITIES AUTHORITY

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

SEWER SERVICE PERMIT

Block: 89.01 Lot: 40
27 Brower Dr

CONTRACT NO. _____

Dion Natale
2378 Waldheim Ave
Scotch Plains NJ 07076-2152



ACCOUNT # 3316808-0

SIZE OF SVC LINE 4" METER SIZE 1"

CONNECTION FEE \$ _____

INSPECTION FEE \$ 15.00 DIST: _____ LENGTH _____ DEPTH _____

STREET NAME _____

INSPECTIONS	Date 1st	Date 2nd	Comments	Inspector
A. Lateral				
B. Curb Connection				
C. House Connections				

Homeowner/Applicant _____ Date _____
Inspector _____
Plumber _____
Lic. No. _____

THE BRICK TOWNSHIP MUNICIPAL UTILITIES AUTHORITY

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

WATER SERVICE PERMIT

Block: 89.01 Lot: 40
27 Brower Dr

Dion Natale
2378 Waldheim Ave
Scotch Plains NJ 07076-2152

ACCOUNT # 3316808-0 METER # _____ METER MFGR. _____

SIZE OF SVC LINE 1" METER SIZE 1"

CONNECTION FEE \$ _____

INSPECTIONS	Date 1st	Insp. 2nd	Comment	Inspector
Meter fee				
A. Service Line				
B. Curb Connection				
C. House Conn & Mtr				
D. Cross-Connection				

Homeowner/Applicant _____ Inspector _____



CONSTRUCTION PERMIT

Date Issued 12/8/14
Control # C-14-003992
Permit # 14-3990

IDENTIFICATION Block: 89.01 Lot: 40 Qualifier _____
Work Site Location: 27 BROWER DR. Brick Township, NJ Contractor: NATALE DION
Address: 2378 WALDHEIM AVE. SCOTCH PLAINS NJ 07076
Owner in Fee: NATALE DION
2378 WALDHEIM AVE SCOTCH PLAINS NJ
07076 Telephone: (908) 889-0027
Telephone: (908) 889-0027 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:

SINGLE FAMILY DWELLING

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 \$138,200

David J. McManus Jr.
Construction Official

10/4/14
Date

U.C.C. F170
equiv (rev 1/04)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

PAYMENTS (Office Use Only)

Building	\$1,554
Electrical	\$500
Plumbing	\$588
Fire Protection	\$390
Elevator Devices	\$0
Other	\$0.00
DCA Training Fee	\$126
CO Fee	\$302.00
Other	\$150
Total	\$3,610
Check No. <u>135</u>	
Cash	\$0
Credit	\$0
Collected By	

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 fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

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.

12/08/14 4:10PM 001550H7568
#3990
ELECTRIC \$500.00
PLUMBING \$588.00
FIRE \$390.00
DCA \$126.00
C/O \$302.00
EPS \$150.00
ZFH \$50.00



RELY ON RUUD.™

SUBMITTAL COVER SHEET

PROJECT NAME _____
LOCATION _____
ARCHITECT _____
ENGINEER _____
CONTRACTOR _____
SUBMITTED BY _____ DATE _____

UNIT SUMMARY

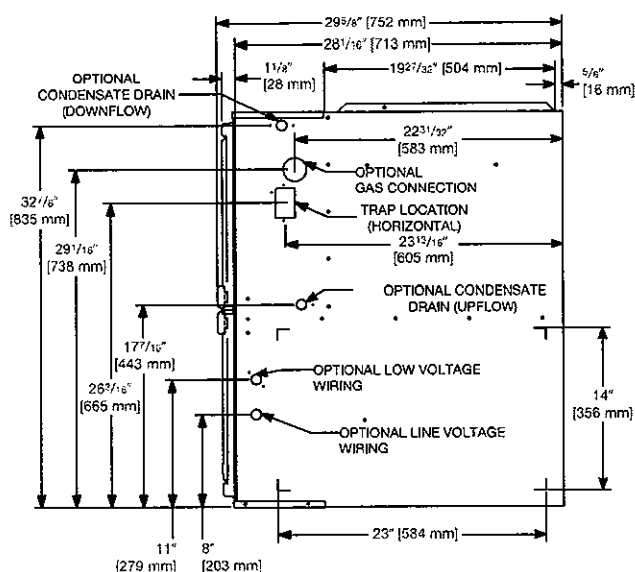
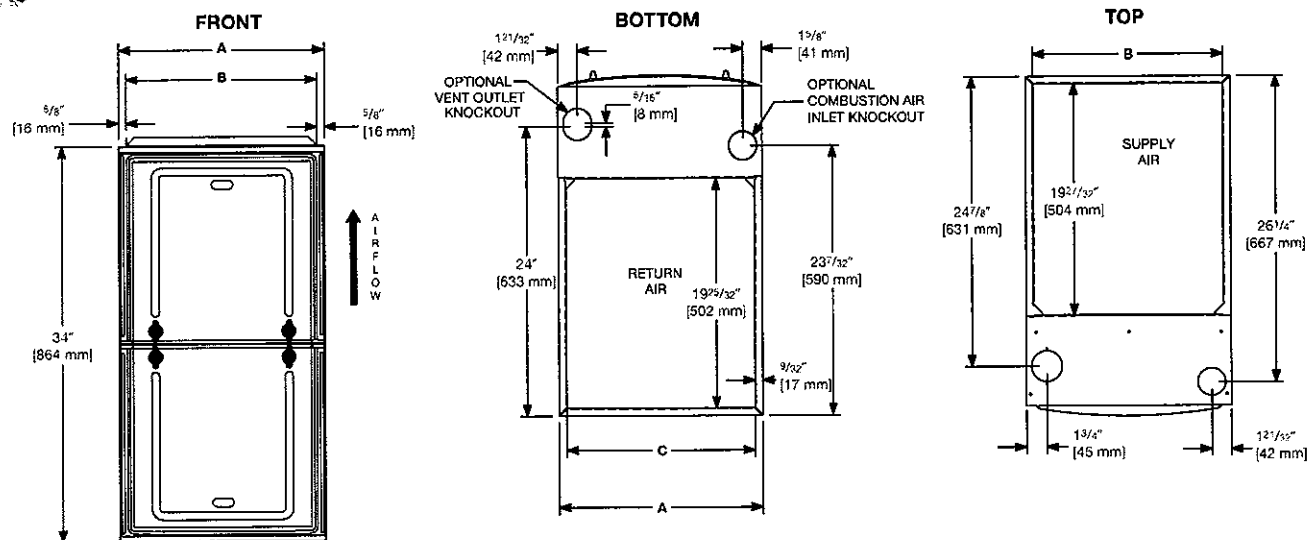
Quantity						
Unit Designation						
Model No.						
Total Cooling						
Sensible Cooling						
Air Ent. Evaporator						
Air Lvg. Evaporator						
Heating Input						
Heating Output						
CFM/ESP						
EER/SEER						
Electrical						
Minimum Ampacity						
Min.-Max. Breaker						
Net Unit Weight						
Accessory						
Catalog Form Number						

ACCESSORIES:

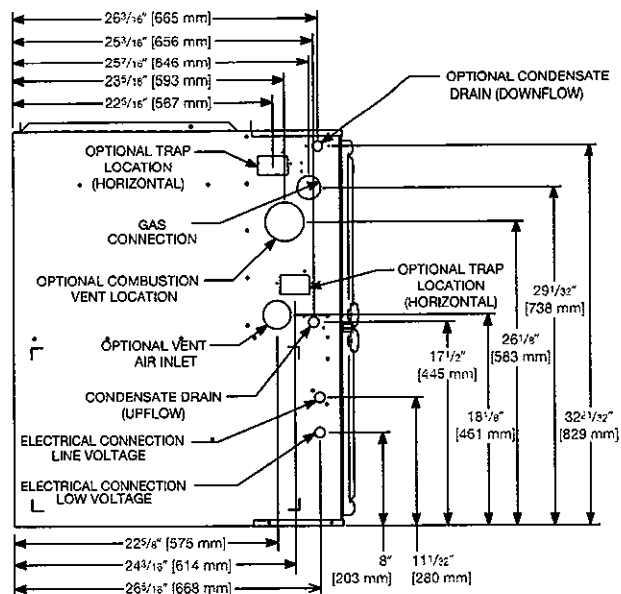
NOTES:

RELY ON RUUD.™

FORM NO. M22-1640



RIGHT SIDE



LEFT SIDE

UNIT DIMENSIONS (CLEARANCE TO COMBUSTIBLES)

MODEL R92P	LEFT SIDE	MINIMUM CLEARANCE (IN.) [mm]					SHIP WGTs. (LBS.) [kg]	FLANGE DIMENSIONS		
		RIGHT SIDE	BACK	TOP	FRONT	VENT		A	B	C
040	0	0	0	1 [25]	2 [51]	0	123.5 [56]	17 1/2 [445]	16 17/64 [413]	16 13/64 [412]
060	0	0	0	1 [25]	2 [51]	0	128 [58]	17 1/2 [445]	16 17/64 [413]	16 13/64 [412]
070	0	0	0	1 [25]	2 [51]	0	132 [60]	17 1/2 [445]	16 17/64 [413]	16 13/64 [412]
085	0	0	0	1 [25]	2 [51]	0	147.5 [67]	21 [533]	19 49/64 [502]	19 45/64 [500]
100	0	0	0	1 [25]	2 [51]	0	152 [69]	21 [533]	19 49/64 [502]	19 45/64 [500]
115	0	0	0	1 [25]	2 [51]	0	165 [75]	24 1/2 [662]	23 17/64 [591]	23 13/64 [589]

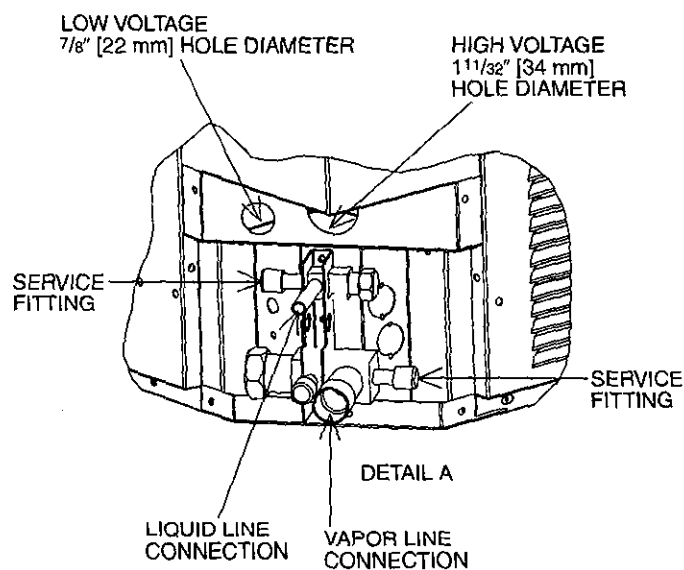
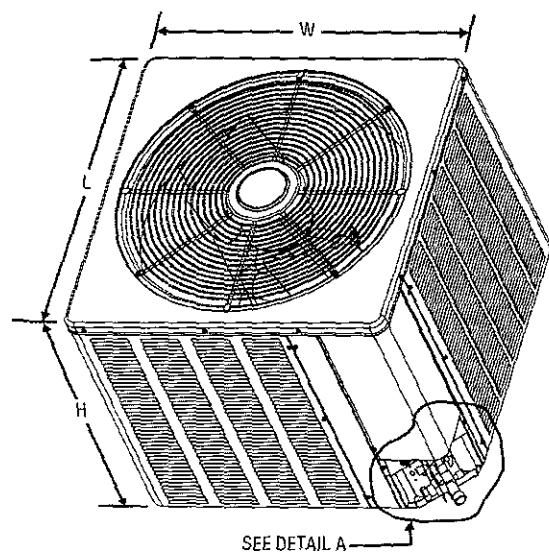
[] Designates Metric Conversions

*A service clearance of at least 24" is recommended in front of all furnaces. Supply and return depicted as upflow configuration. Flange configuration will vary depending on installation orientation.

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

"In keeping with its policy of continuous progress and product improvement, Manufacturer reserves the right to make changes without notice."

13A(-)N 18, 24, 30, 36, 42, 48, 60



Model No. 13A(-)N	Unit Dimensions		
	Width "W" Inches	Length "L" Inches	Height "H" Inches
18, 24	23 ⁵ / ₈ [600]	23 ⁵ / ₈ [600]	24 ¹ / ₄ [616]
30, 36, 42	27 ⁵ / ₈ [702]	27 ⁵ / ₈ [702]	24 ¹ / ₄ [616]
48	31 ⁵ / ₈ [803]	31 ⁵ / ₈ [803]	27 ¹⁵ / ₁₆ [710]
60	31 ⁵ / ₈ [803]	31 ⁵ / ₈ [803]	35 ¹⁵ / ₁₆ [913]

[] Designates Metric Conversions

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

"In keeping with its policy of continuous progress and product improvement, Manufacturer reserves the right to make changes without notice."