

O'Hare Community Noise Resource Center

O'Hare International Airport in Chicago, the 8th largest cargo airport in the U.S., has developed multiple outreach items for the community to view how its proposed expansion and modernization program will impact noise. As can be seen in Figure 1 the future runways will have an impact on many communities that surround the airport at the 65 DNL range. Figure 2 shows estimated runway utilization when the planned airport build-out is complete.

FIGURE 1: FUTURE RUNWAYS AND NOISE IMPACTS AT CHICAGO O' HARE

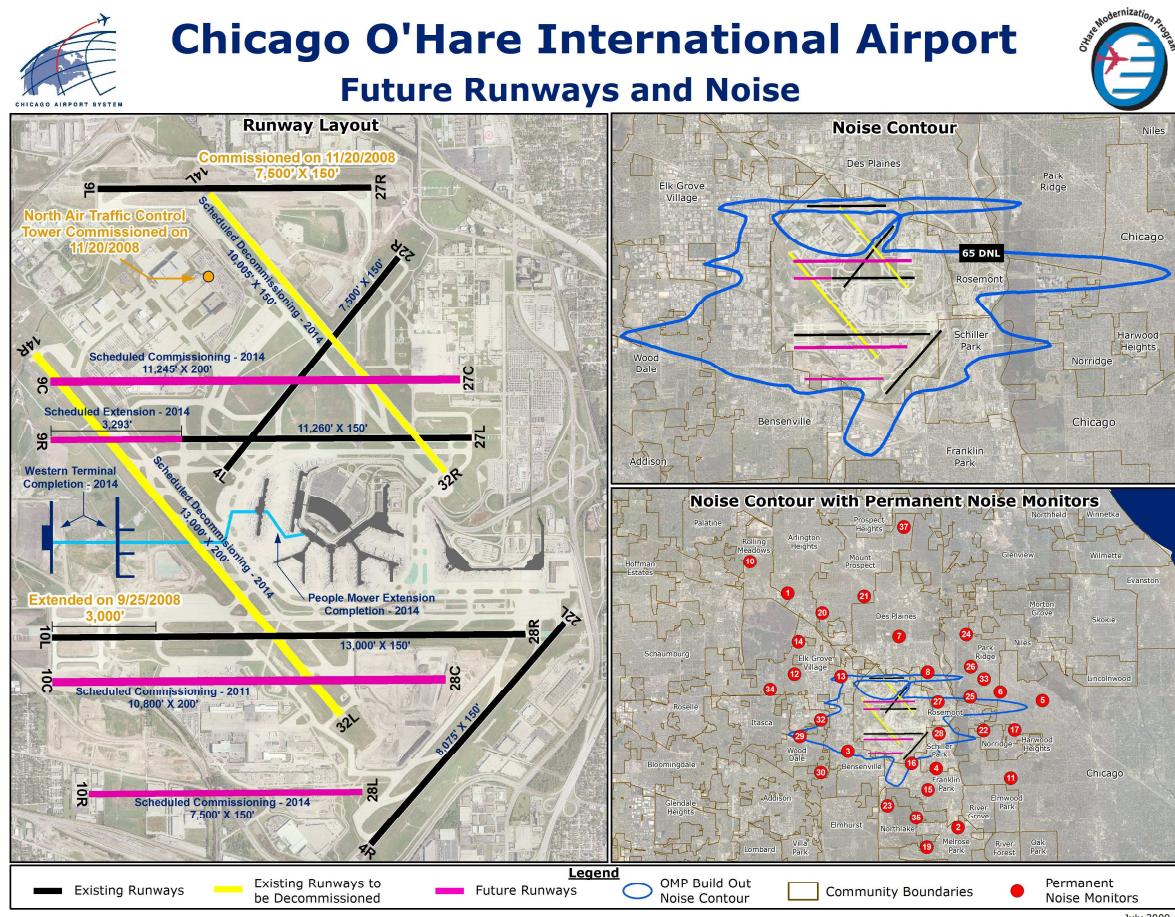
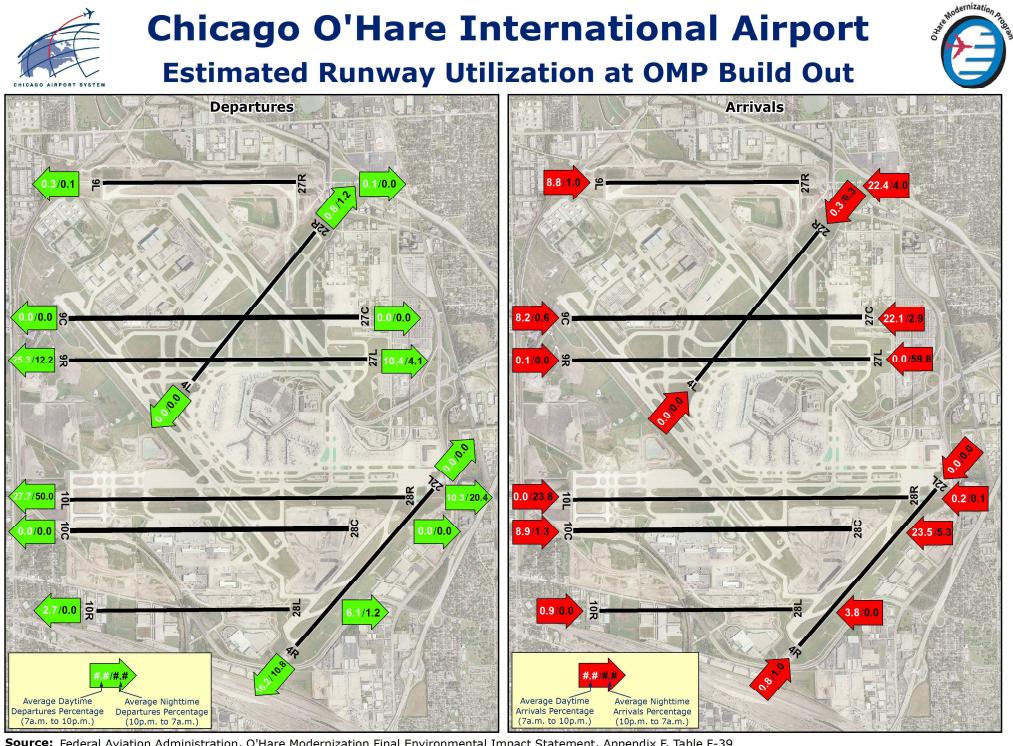


FIGURE 2 ESTIMATED RUNWAY UTILIZATION



Source: Federal Aviation Administration, O'Hare Modernization Final Environmental Impact Statement, Appendix F, Table F-39

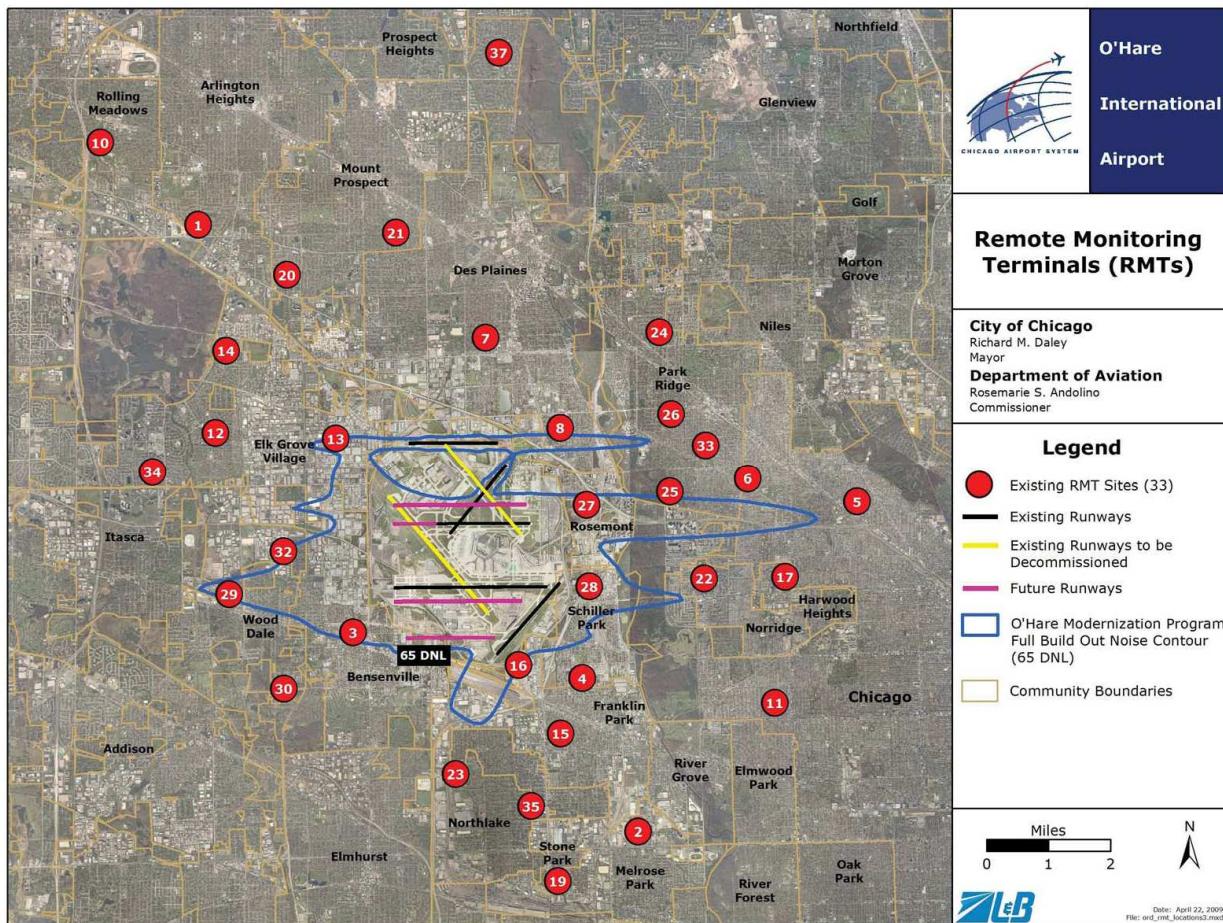
Visit the Community Noise Resource Center on the internet at www.flychicago.com

July 2009

The Chicago Department of Aviation hosts the O'Hare Community Noise Resource Center website that can be found at: http://www.ohare.com/cnrc/ohare/ohare_noise.shtml. This website has fact sheets, a property locator program that can show where properties are in relation to the 65 DNL sound contour, and other informational items. The website also provides information on the school sound insulation program and the residential sound insulation program. The Department also utilizes a community outreach vehicle to visit neighborhoods, community events, festivals, and libraries.

The airport also has installed permanent noise monitors which can be seen in Figure 3.

FIGURE 3: PERMANENT NOISE MONITORS AROUND O'HARE AIRPORT



O'HARE NOISE COMPATIBILITY COMMISSION

The O'Hare Noise Compatibility Commission was created in 1996 to oversee noise mitigation efforts around the airport. The Commission is chaired by the village of Arlington Heights, and is comprised of representatives of communities and public school districts located in the O'Hare area. The Commission was envisioned to be a policy-making group to direct funding for noise reduction projects. The commission can make recommendations to the City regarding how monies are directed to its three main programs, the Fly Quiet Program, Residential and School Sound Insulation Programs and the Airport Noise Management System.

The commission maintains three standing committees to facilitate their work:

1. School sound insulation committee
2. Residential sound insulation committee
3. Technical committee

The Commissions website can be seen in Figure 4. The website can be found at: <http://www.oharenoise.org/>.

FIGURE 4: O'HARE NOISE COMPATIBILITY COMMISSION



Join Our Email List Email: Join

Member Communities					Member School Districts		
Arlington Heights	Elmwood Park	Melrose Park	Palatine	Schaumburg	Dist. 58	Dist. 84.5	Dist. 214
Bartlett	Franklin Park	Mount Prospect	Park Ridge	Schiller Park	Dist. 63	Dist. 85.5	Dist. 234
Bellwood	Hawthorne Heights	Niles	River Grove	Stone Park	Dist. 64	Dist. 86	Dist. 299
Bensenville	Hoffman Estates	Northridge	River Forest	Wood Dale	Dist. 80	Dist. 87	Dist. 401
Chicago	Itasca	Northlake	Rolling Meadows	Cook County	Dist. 81	Dist. 88	
Des Plaines	Maywood	Oak Park	Rosemont		Dist. 84	Dist. 89	

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Notes

Coming Up

Next ONCC Meeting
Friday, May 7, 2010
8:00 A.M.

Rosewood Banquets
9421 West Higgins Road,
Rosemont, IL

Special Information

New North Runway 9 Left/27 Right
Facts/Links [Click here](#)

Sound Insulation Programs:

- 6,184 Homes Insulated
- 770 Homes in Construction
- 1,000 Homes in Design
- 115 Schools Insulated
- 2 Schools in Design
- Over \$500 Million Invested

For more information on our Sound Insulation Programs, click links below:

[December 1, 2008](#)

Featured Publications

[O'Hare Monitor Newsletter](#)
[ONCC 2009 Annual Report](#)
[ONCC 2009 Highlights](#)
[ONCC Brochure](#)
[ONCC Works for You](#)
[Sound Insulating Your Home](#)
For other ONCC Publications please click [here](#)

Noise Complaints

Your Input is Important!
O'Hare Noise Hotline
(800) 435-9569
Via the Internet [Click here](#)

Contact

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News

Brendan McLaughlin ONCC New Executive Director
Brendan McLaughlin is the newly appointed executive director for the O'Hare Noise Compatibility Commission. His experience includes a 10-year career with the city of Naperville, Ill., where he served as business group leader for the transportation, engineering and development... [read more](#)

ONCC Issues 2009 Annual Report
Highlights of the year and progress in addressing aircraft noise near O'Hare International Airport are outlined in ONCC's 2009 Annual Report. Noise complaints were approximately six times higher in 2009 compared to 2008 numbers; FAA approved \$247 million for 4,500 residences... [read more](#)

Report Aircraft Noise Via Internet
Record your aircraft noise complaint quickly via the Internet. [Click here](#) to use the City of Chicago complaint form. ONCC recommends saving the form as a bookmark.

Complaints are tabulated in a monthly Airport Noise Management System (ANMS) report that summarizes the total number of complaints per month, location of inquiries, number of calls by community and number of individuals who report aircraft noise.

To see monthly data, see the right hand column under Aircraft Noise Management System Reports. This information is also presented at ONCC general meetings for review.

Another option is the City of Chicago's aircraft noise complaint toll-free hotline, (800) 435-9569.

New ONCC Chart Shows Aircraft Arrivals, Departures, Use for All O'Hare Runways
Aircraft traffic on existing and future runways at O'Hare International Airport is illustrated in an easy-to-read [chart](#) developed by the O'Hare Noise Compatibility Commission... [read more](#)

Existing North of Main Terminal

	DEPARTURES	IN USE
Arrivals 01-2009 Commercial (January 20, 2009)	100 0.0% 1,250 0.0% 100 0.0% 1,250 0.0%	100 4.0% 1,250 3.0% 100 12.0% 1,250 3.0%
Runway 01L-20R	100 0.0% 1,250 0.0% 100 0.0% 1,250 0.0%	100 12.0% 1,250 3.0% 100 12.0% 1,250 3.0%
Runway 01R-20L	100 0.0% 1,250 0.0% 100 0.0% 1,250 0.0%	100 12.0% 1,250 3.0% 100 12.0% 1,250 3.0%
Total	100 0.0% 1,250 0.0% 100 0.0% 1,250 0.0%	100 12.0% 1,250 3.0% 100 12.0% 1,250 3.0%

Existing South of Main Terminal

	DEPARTURES	IN USE
Arrivals 01-2009 Commercial (January 20, 2009)	100 0.0% 1,250 0.0% 100 0.0% 1,250 0.0%	100 4.0% 1,250 3.0% 100 12.0% 1,250 3.0%
Runway 01L-20R	100 0.0% 1,250 0.0% 100 0.0% 1,250 0.0%	100 12.0% 1,250 3.0% 100 12.0% 1,250 3.0%
Runway 01R-20L	100 0.0% 1,250 0.0% 100 0.0% 1,250 0.0%	100 12.0% 1,250 3.0% 100 12.0% 1,250 3.0%
Total	100 0.0% 1,250 0.0% 100 0.0% 1,250 0.0%	100 12.0% 1,250 3.0% 100 12.0% 1,250 3.0%

To Be Documented

140/2009 and 140/2010. Currently in use no percentages available to be documented in ANMS due to data cut off.

To Be Documented or Estimated South of Main Terminal

	DEPARTURES	IN USE
Arrivals 01-2010 Estimated Commercial (Jan 1st - Oct 31st)	100 0.0% 1,250 0.0% 100 0.0% 1,250 0.0%	100 4.0% 1,250 3.0% 100 12.0% 1,250 3.0%
Runway 01L-20R	100 0.0% 1,250 0.0% 100 0.0% 1,250 0.0%	100 12.0% 1,250 3.0% 100 12.0% 1,250 3.0%
Runway 01R-20L	100 0.0% 1,250 0.0% 100 0.0% 1,250 0.0%	100 12.0% 1,250 3.0% 100 12.0% 1,250 3.0%
Total	100 0.0% 1,250 0.0% 100 0.0% 1,250 0.0%	100 12.0% 1,250 3.0% 100 12.0% 1,250 3.0%

To Be Documented South of Main Terminal

	DEPARTURES	IN USE
Arrivals 01-2010 Estimated Commercial (Jan 1st - Oct 31st)	100 0.0% 1,250 0.0% 100 0.0% 1,250 0.0%	100 4.0% 1,250 3.0% 100 12.0% 1,250 3.0%
Runway 01L-20R	100 0.0% 1,250 0.0% 100 0.0% 1,250 0.0%	100 12.0% 1,250 3.0% 100 12.0% 1,250 3.0%
Runway 01R-20L	100 0.0% 1,250 0.0% 100 0.0% 1,250 0.0%	100 12.0% 1,250 3.0% 100 12.0% 1,250 3.0%
Total	100 0.0% 1,250 0.0% 100 0.0% 1,250 0.0%	100 12.0% 1,250 3.0% 100 12.0% 1,250 3.0%

Airport Noise Management System
Chicago O'Hare International Airport



Airport Noise Management System Reports

January 2010 ANMS highlights: Most used departure runway—32L or 44R; most used arrival runway—27L or 33R; noise complaints—907... [read more](#)

The Airport Noise Management System (ANMS) collects, analyzes and processes data from several sources, including 33 noise monitors around O'Hare, FAA radar data, weather data and noise complaints. The City of Chicago and ONCC use this monthly data report to facilitate development and management of noise abatement programs at O'Hare.

For older ANMS Reports since November 2008, click [here](#)

Long Term Portable Monitor Reports:

[November 2009](#)
[October 2009](#)
[September 2009](#)

Fly Quiet Nighttime Program Reports

Fourth Quarter 2009 Fly Quiet highlights: Most used nighttime departure runway—32L—45%; most used nighttime arrival runway—28 or 21%. Nighttime operations represented 9% of the overall daily operations... [read more](#)

The Fly Quiet Program is voluntary at O'Hare International Airport. It encourages use of designated nighttime preferred runways and flight tracks developed by the Chicago Department of Aviation in cooperation with ONCC, the airlines, pilots and air traffic controllers.

Preferred routes direct aircraft over less-populated areas such as forest preserves, highways, and commercial and industrial areas during the hours of 10 p.m. to 7 a.m.

Adherence to nighttime departure preferred flight tracks is measured by the Airport Noise Management System (ANMS)—see ANMS reference above.

For older Fly Quiet reports, click [here](#)

FAA Grant to Fund Wood Dale's Thorndale Corridor Master Plan

The City of Wood Dale has received a \$143,380 FAA grant to develop compatible

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RESIDENTIAL SOUND INSULATION PROGRAM

This program is designed to reduce the impact of aircraft noise on homes that surround O'Hare International Airport. According to the website:

The goal of the program is to make it easier for the highest impacted homeowners surrounding O'Hare to talk on the phone, watch TV, listen to music, take a nap, or have a conversation in their own homes.

By 2004, 5918 homes had been sound insulated at a cost of \$180 million. The website provides information and resources for homeowners at:

<http://www.ohare.com/cnrc/ohare/ohareresidential.htm>

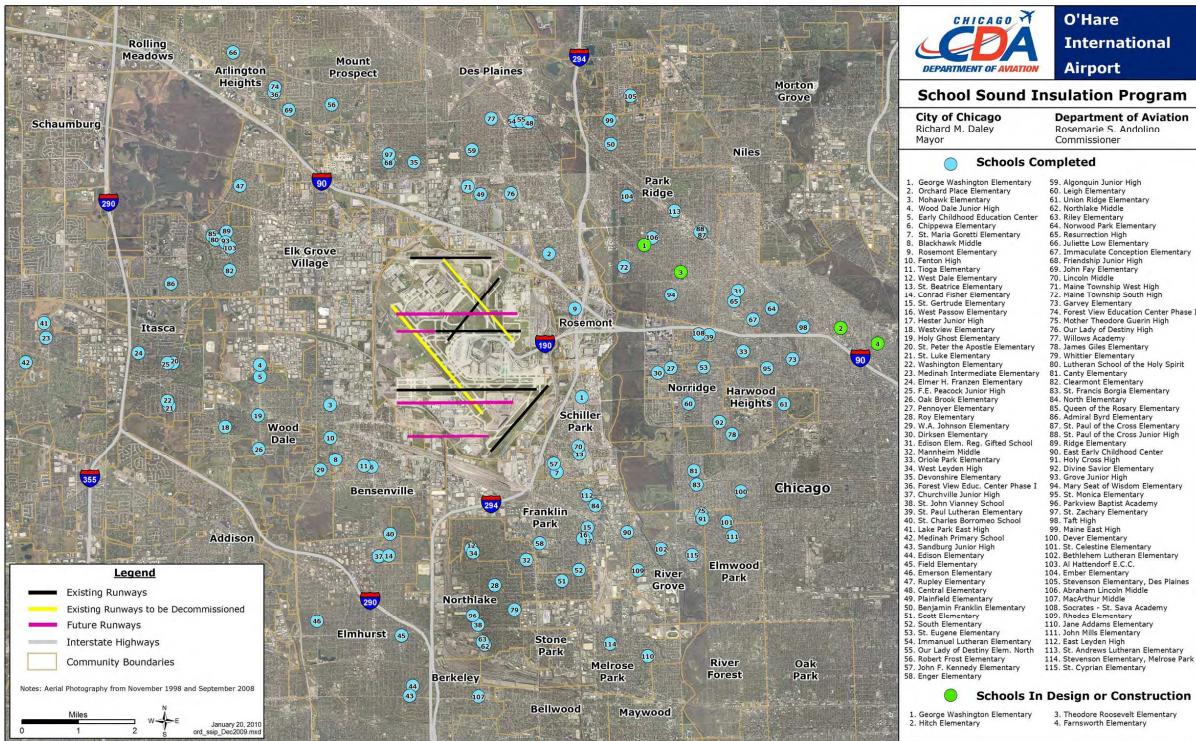
This website also has a sound insulating brochure which can be found at:

<http://www.ohare.com/cnrc/ohare/ORDSoundInsulating2010.02.pdf>. The guidebook was developed as a response to the many requests that the city had received, and was created by the City's Department of Aviation, Airport Owners Representatives, City's consultant to the Residential Sound Insulation Program and the O'Hare Noise Compatibility Commissions Committee. The brochure provides detailed schematics of the types of mitigation that can be utilized to reduce noise. Some examples can be seen in the appendix at the end of this case study.

SCHOOL SOUND INSULATION PROGRAM

O'Hare has developed the School Sound Insulation Program. This provides schools in the area with sound insulation, which can include noise attenuating windows, additional roofing and ceiling insulation, improved doors, and other measures to reduce the transmission of noise. Under this program 114 schools have been insulated at a cost of approximately \$260.3 million. 110 additional schools have requested to be included in this program. Figure 5 shows the schools currently enrolled in the program (both completion and in design or construction).

FIGURE 5: SCHOOLS SOUND INSULATION PROGRAM PARTICIPANTS





REFERENCES:

<http://www.ohare.com/cnrc/ohare/ORDPermanentNoiseMonitorsJuly2009.pdf>

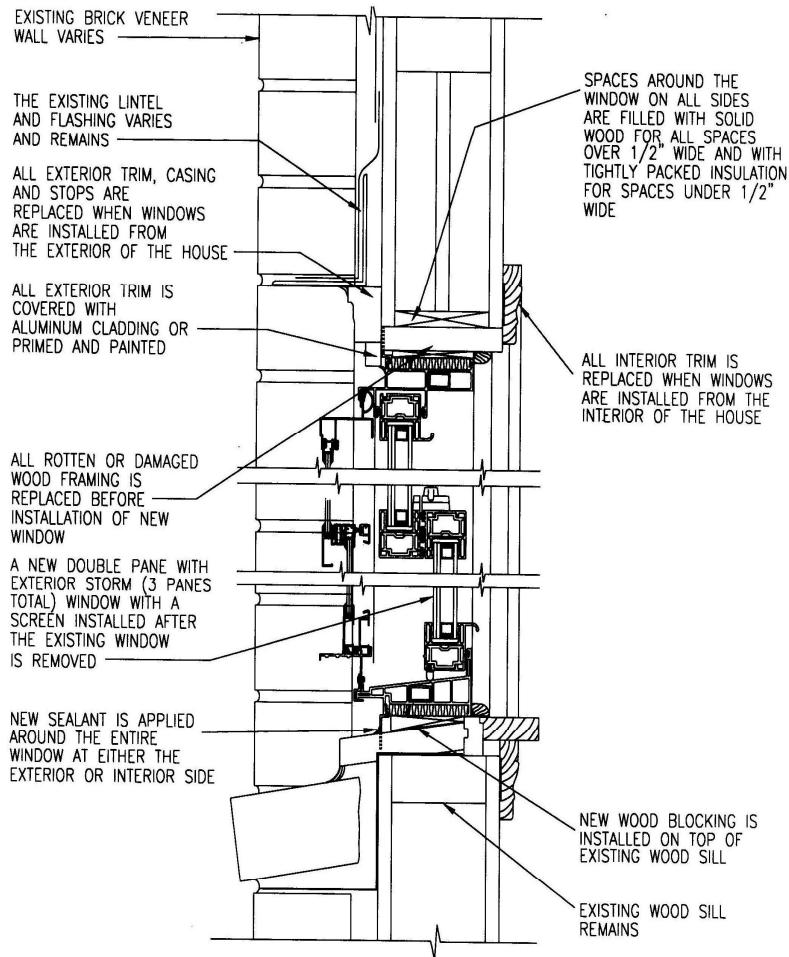
http://www.ohare.com/cnrc/ohare/o_noise_cov.shtm

http://www.ohare.com/cnrc/ohare/o_noise_school.shtm

<http://www.ohare.com/cnrc/ohare/pdf/ORDSchools2010-01-20.pdf>

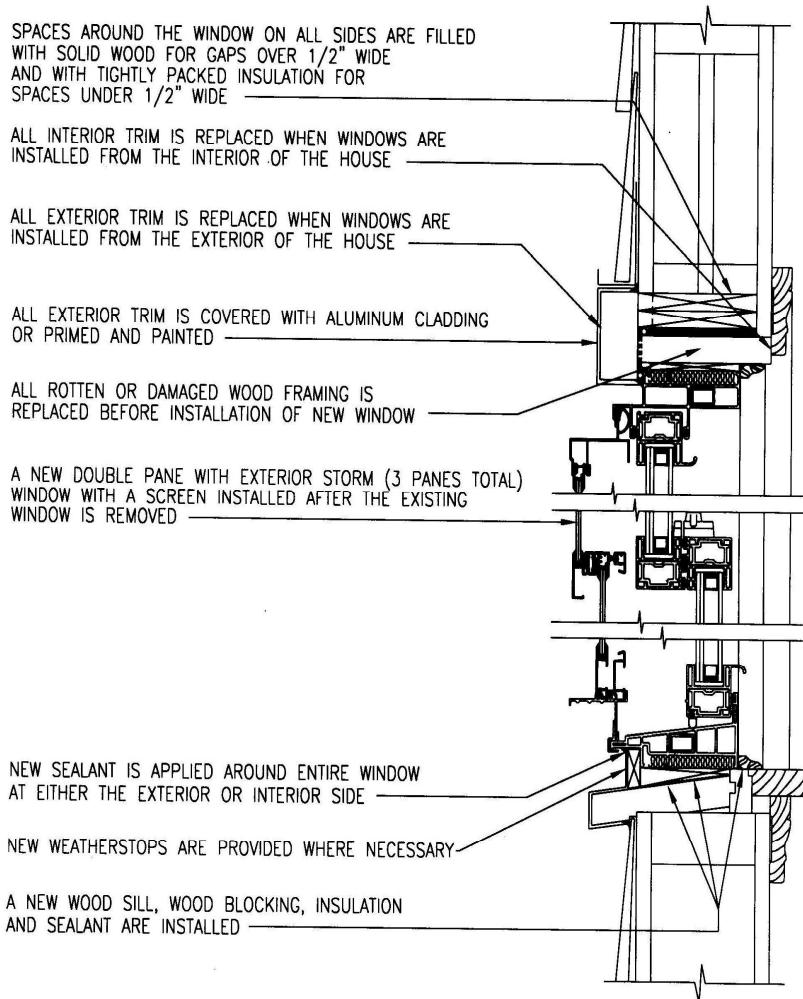
APPENDICES

A1: Window Detail



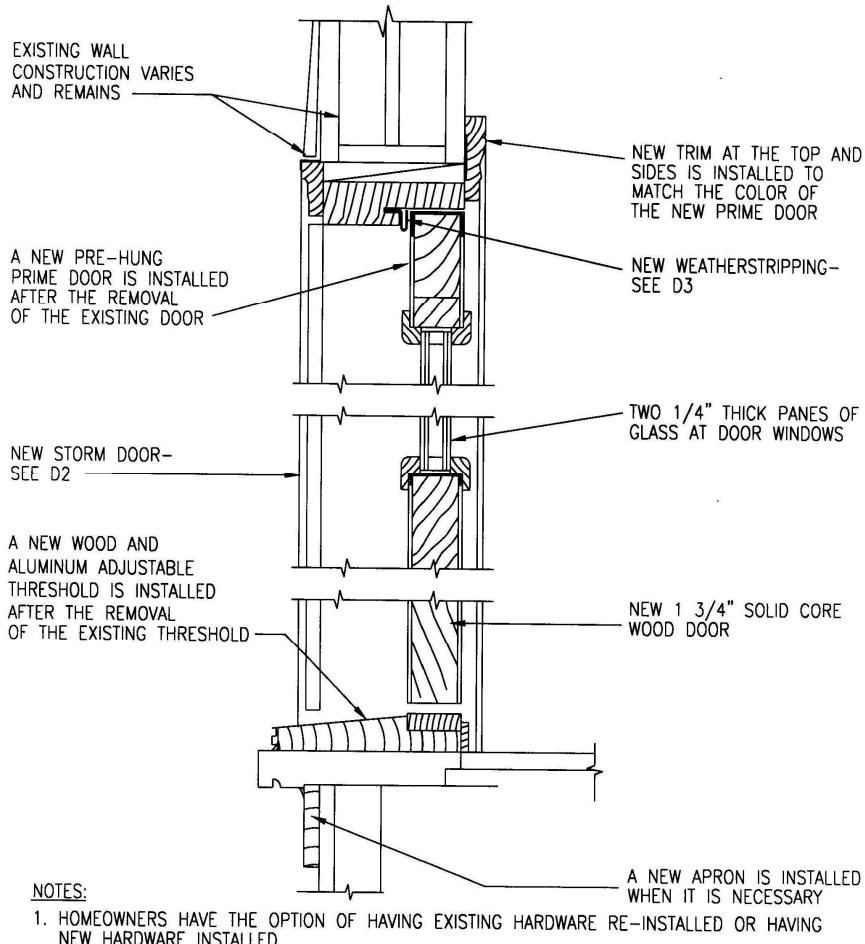
 **WINDOW DETAIL**
W2
NEW ACOUSTICAL WINDOW IN BRICK HOME

A2: Window Detail



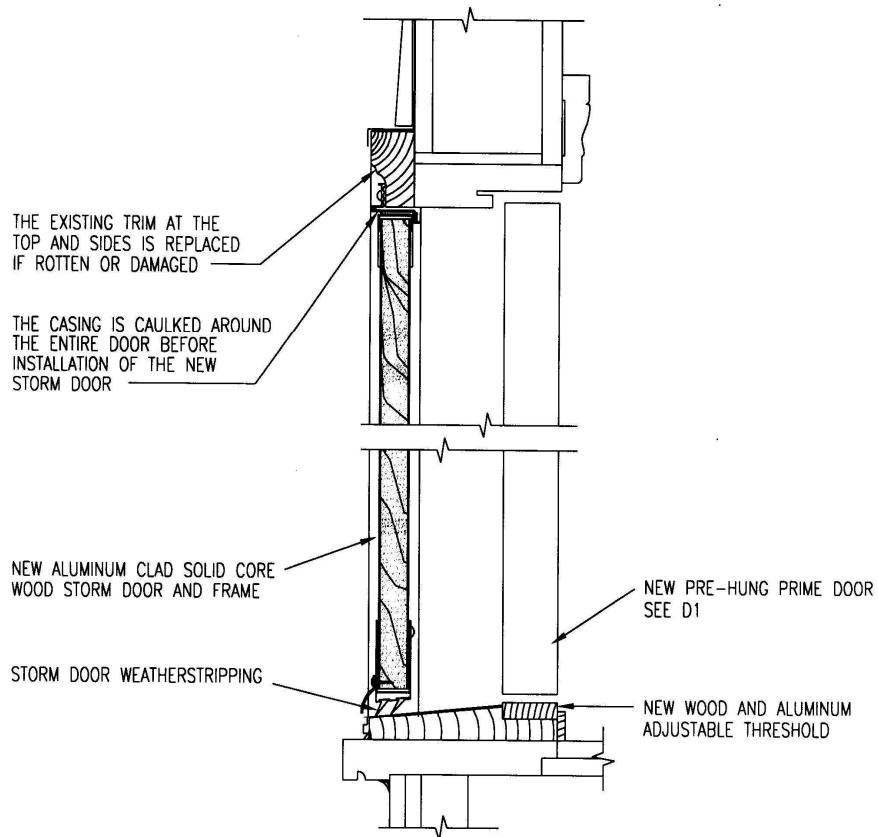
W1 WINDOW DETAIL
NEW ACOUSTICAL WINDOW IN FRAME HOME

A3: Door Detail



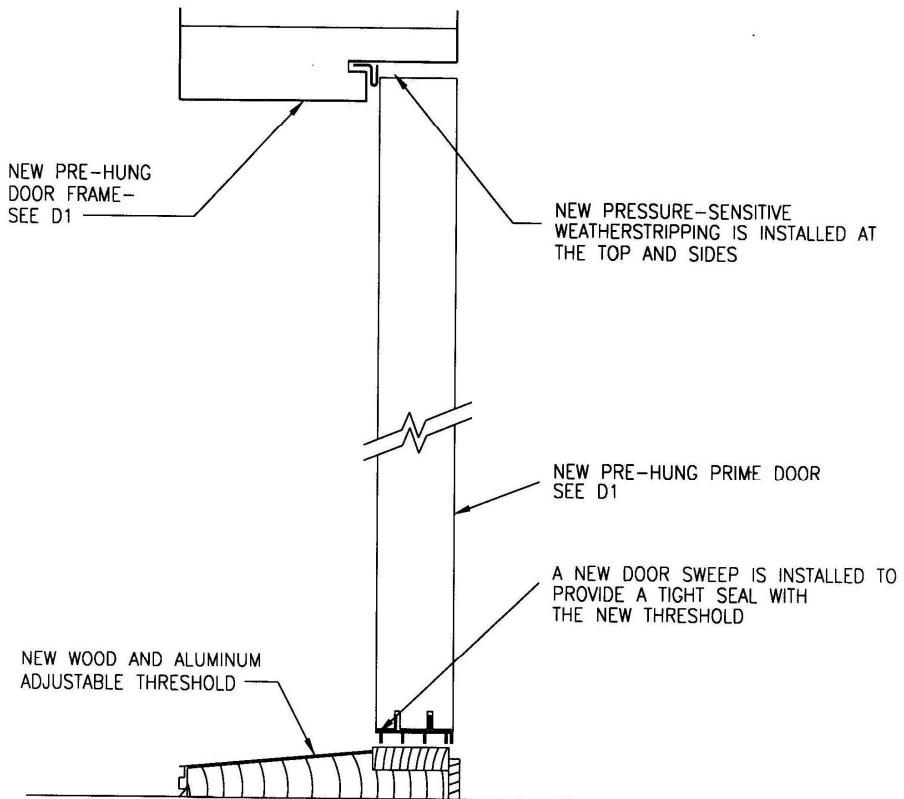
D1 DOOR DETAIL
 NEW PRE-HUNG PRIME DOOR

A4: Door Detail



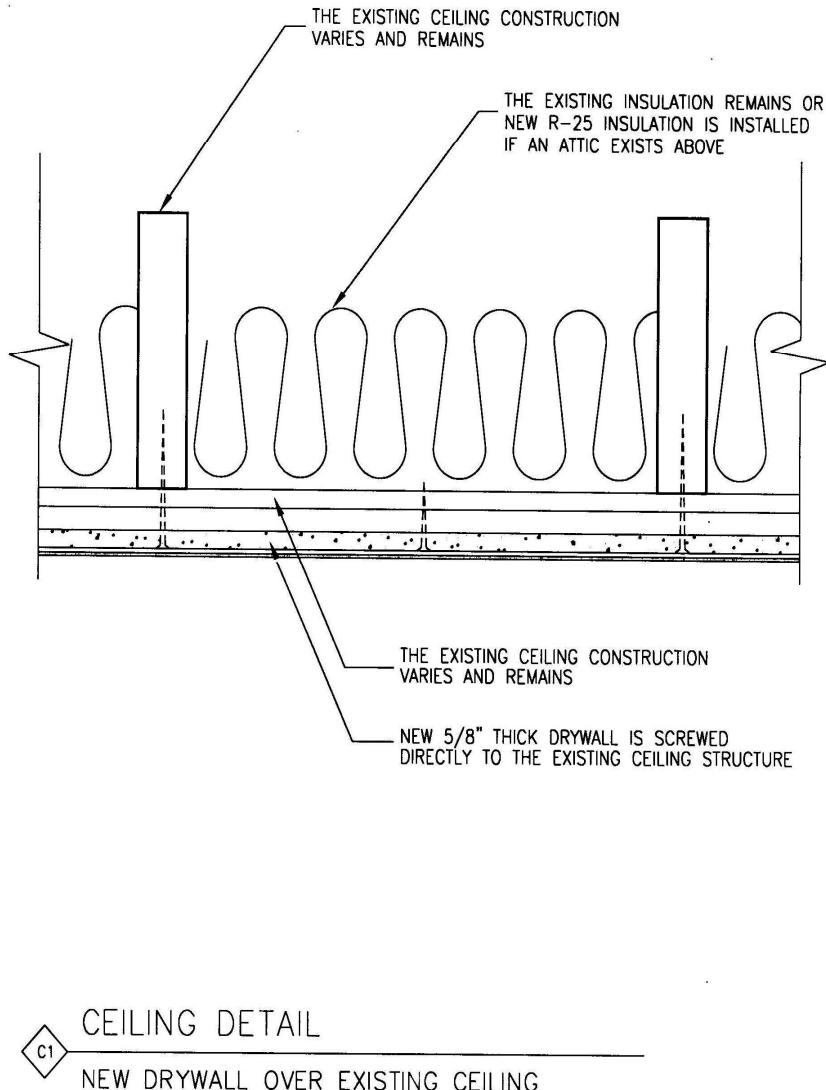
D2 DOOR DETAIL
 NEW STORM DOOR

A5: Door Detail

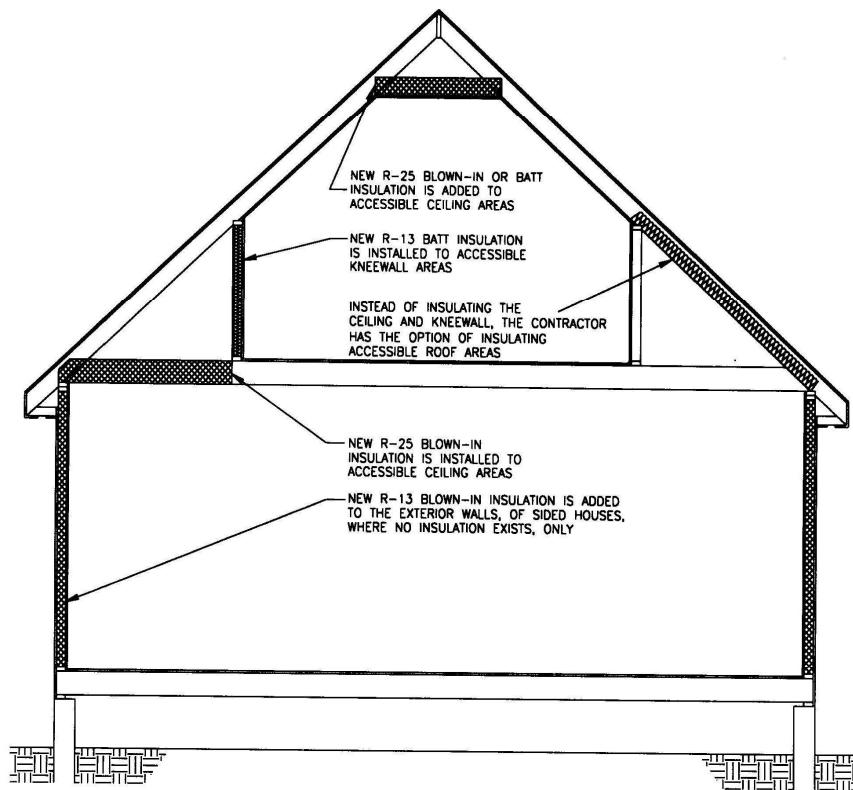


D3 DOOR DETAIL
NEW WEATHERSTRIPPING IN NEW PRE-HUNG DOORS

A6: Sound Insulation

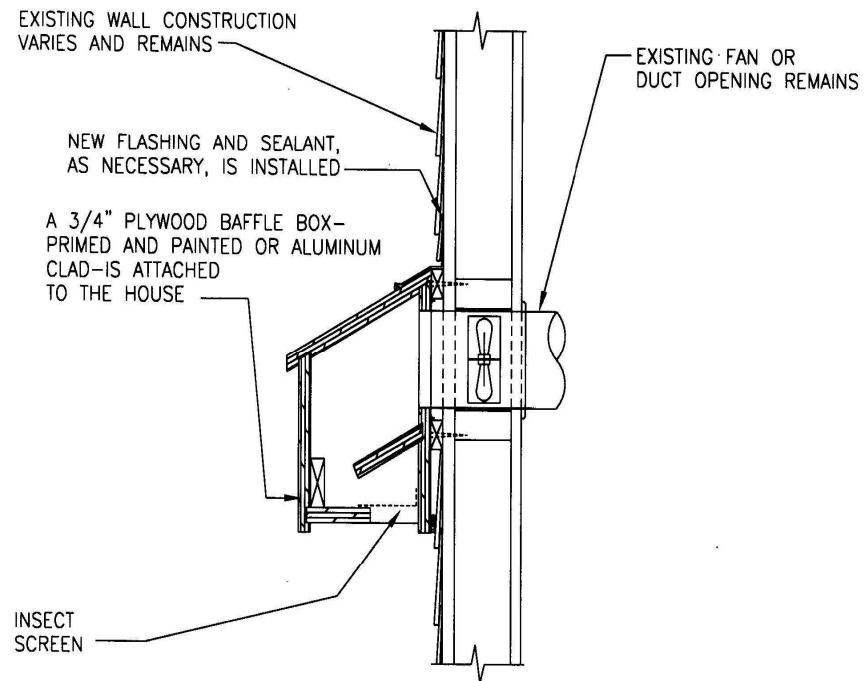


A7: Sound Insulation – new home



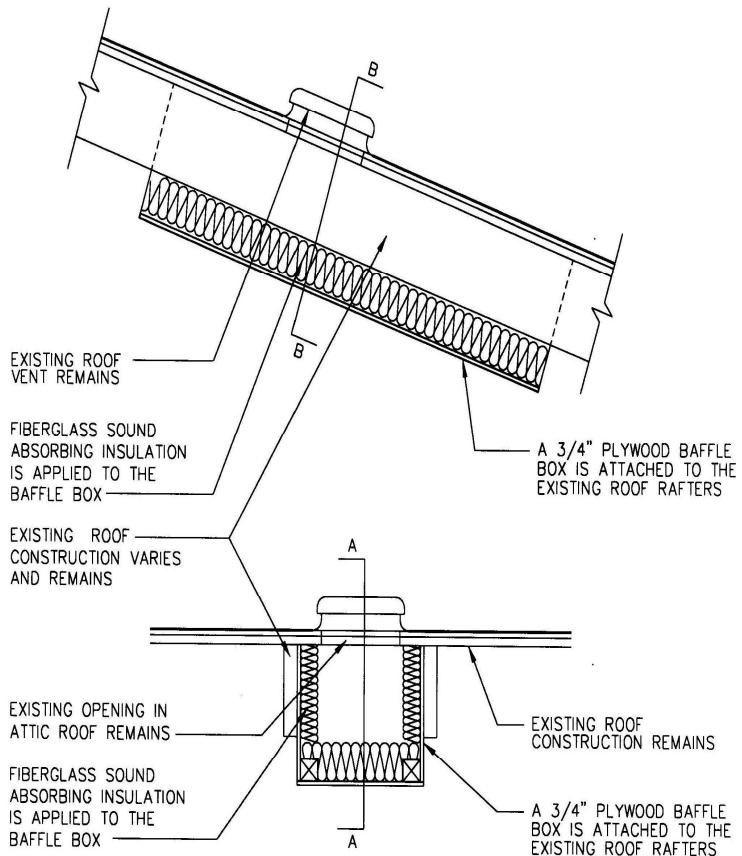
11 **INSULATION FOR TYPICAL HOME**
 DIAGRAMMATIC ONLY (NO SCALE)

A8: Sound Insulation – vent detail



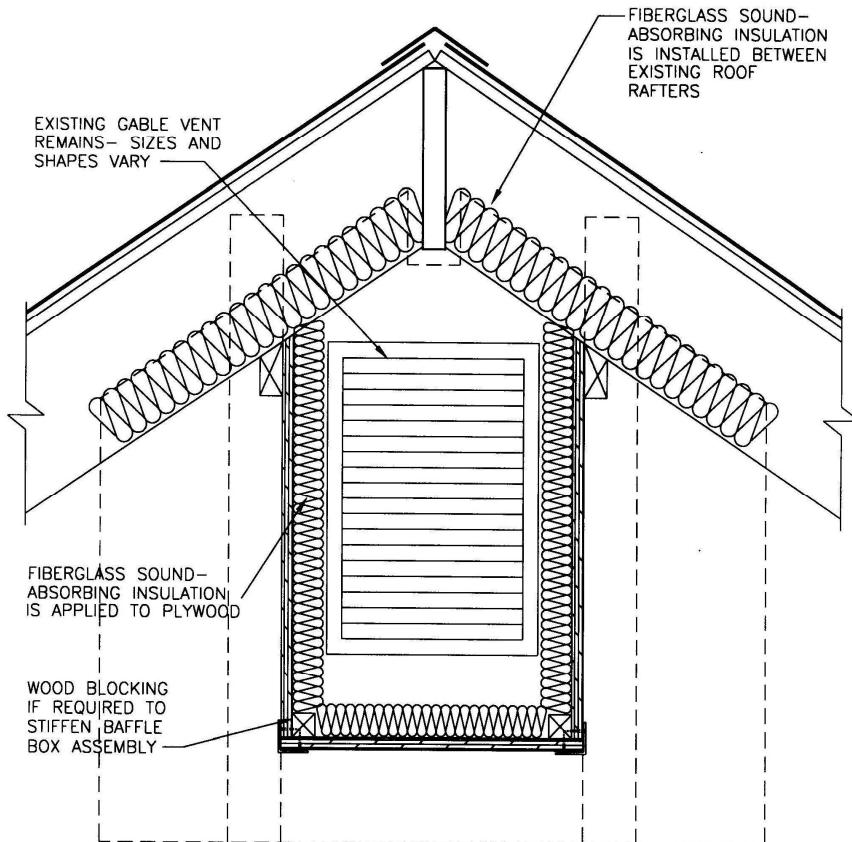
VENT DETAIL
 NEW WALL VENTILATION BAFFLE

A9: Sound Insulation – vent detail for roof



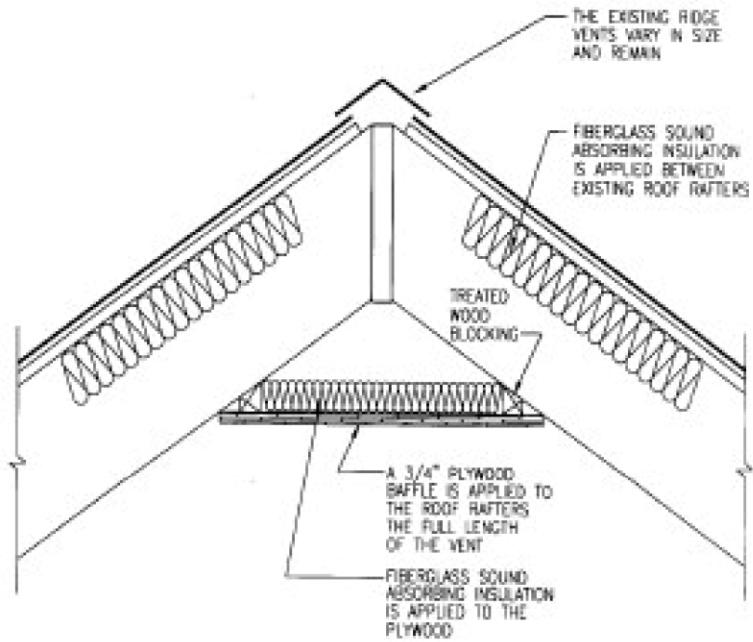
VENT DETAIL
 v2 NEW ROOF VENT BAFFLE

A10: Vent Gable



v3 VENT DETAIL
 NEW GABLE VENT BAFFLE

A11: Vent Gable



VENT DETAIL
NEW RIDGE VENT BAFFLE