

The Wall Journal™

Issue No.

38

Jan/Feb 1999

THE INTERNATIONAL JOURNAL OF TRANSPORTATION-RELATED ENVIRONMENTAL ISSUES

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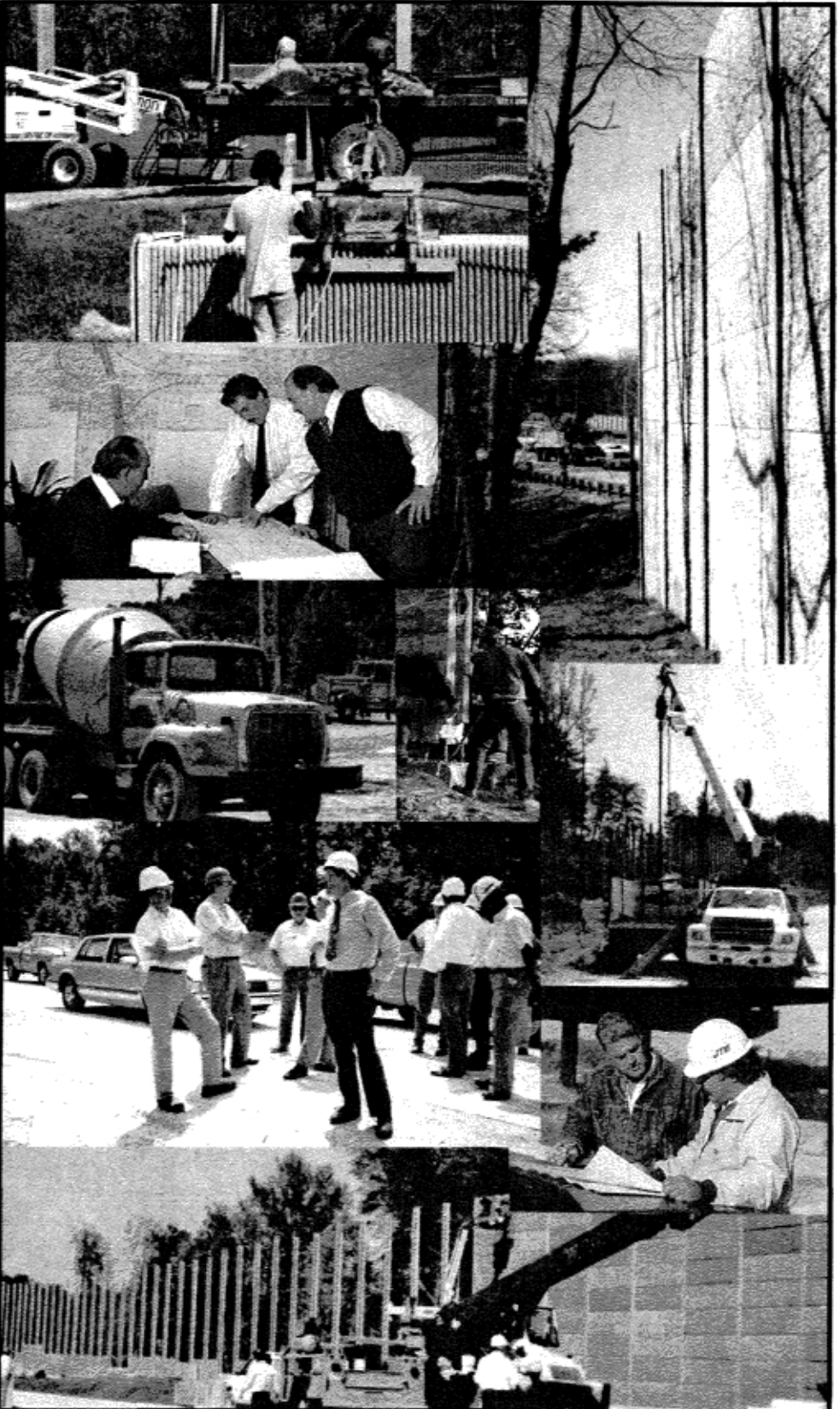
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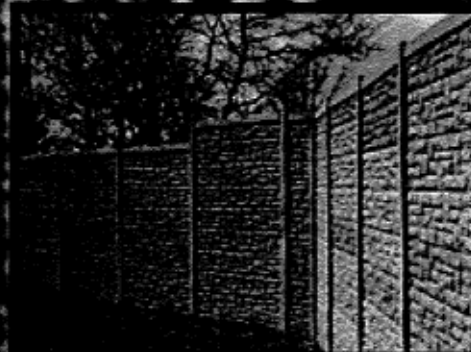
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preco

The Wall Journal

The International Journal of Transportation-Related Environmental Issues

Volume VIII 1999

Issue No. 38

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The Year 1999 is here, Y2K is on the horizon, the President has made his State of the Union speech, and I guess it's about time for...

The State of The Wall Journal!

★★★★★★

So, fellow Americans, and to loyal readers of The Journal from around the world, make yourself comfortable and tune in for the latest and most informative news concerning the sometimes trials and tribulations of your favorite publication, and about the good things that are coming to it.

And just in the nick of time. This past year was like spending time in a squirrel cage. I burned up a lot of miles and got nowhere. The frustration of finding that practically nothing I was doing was working or was broken.

My Macintosh "clone" that I had to buy in a hurry when my trusty old Quadra got zapped by lightning (you've heard that story), turned out to be just what the name says it is — a "thing regarded as identical with another." The operative word here is "regarded." It does not say it *is* identical, it says it is *regarded* as identical. I am sure President Clinton's legal eagles could weave a web of fairy dust all over that.

Well, my "clone" coming unglued. As I sit here at my computer, all of the straight lines (like the one between the columns at left) start and stop slithering along in the tiniest of sine waves. Sometimes it prints out; sometimes it stays straight. But it's alive with a mind of its own.

Just like my "clone" will crash or freeze at any inconvenient time it



chooses (like just before you are going to save a load of data). Whoops!! Sorry about that.

Unfortunately, The Journal's coffers cannot finance new computers, so we have to make do. Worse, that means that we have to suffer delays in preparing The Journal and in scheduling the printers (and *their* schedules). Also, the copy material does not come flooding into our door — we have to make many phone calls to try to encourage people to send us something.

Also, I am retired to an area which is great for vacations and retirement, but commerce is primarily geared to travel, accommodations, recreation, and real estate. I have not been able to find reliable Macintosh service in the area. The Mac is a pariah in my environs, which are awash in IBM clones.

And, I just don't get around much anymore. I'm out of the loop, not in the swim, out to pasture. But, I can't make a move. I lived in New England almost 40 years; it was great, but I've had my fill with cold weather and snow and ice. I'm a Florida boy, now!

Shucks...I've run off at the mouth here, and never said another word about the State of The Wall Journal. But I had to use a lot of space for the Noise Barrier Survey. That's more important, now. But I promise the complete 'State' in the next Issue. ■



Dear El,

Tomorrow, December 30, 1998, at 07:30, I shall walk straight into my office, pack up a box with a few personal belongings, leave a final message on my voice mail, say my personal good-byes and walk out of the Caltrans HQ building on 1120 N Street in Sacramento. As I walk out of that door, I'm leaving behind thirty-four years of - what in a moment of optimism I believe was - productive service in the California Division of Highways, later called the Department of Transportation. I've decided that I need a change of pace, and retirement is the change I have in mind.

Somebody once told me that retirement is a time of exploration. You try a little of this, that, and what not. You abandon what you don't like and continue doing what you do like. By process of elimination, you wind up doing all the things you like. That's not a bad philosophy. Actually, it comes from my former supervisor. Someone who's obviously happily retired. His name is Mas Hatano, Chairman Emeritus of TRB's AIF04 Committee.

I know what you're thinking, El.

"Whoa", you're thinking, "you can't retire. You've committed yourself to being the chairman of the TRB Summer Meeting in San Diego, hosted by Caltrans."

You're right of course. But I've got that base covered. I'm coming back as a retired annuitant (translation: part-time double dipper) to play host to the 1999 AIF04 Summer meeting, and help transition my successor. I'm starting my new role on January 19, 1999, working about half time.

And to make sure that I stay in contact with everybody, I'm sending you a check for \$20 so you can send the Wall Journal straight to my home address shown below. Thanks, El, and hope to see you and everybody else of my friends in San Diego. Details will be out soon!



Rudy Hendriks
Home Address: 5259 Mississippi Bar Drive
Orangevale, CA 95662

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Environmental Program, MS #27
P.O Box 942874
Sacramento, CA 94274-0001
(916) 653-2271
e-mail: rudy_hendriks@dot.ca.gov

Acoustics and Your Environment

the basics of sound and highway traffic noise
a video production



A production by the
Federal Highway Administration
in association with the
Volpe Center Acoustics Facility
and
Out of the Box Productions

January, 1999

Video will automatically be sent to all State Departments of Transportation, all State Federal-Aid Division Offices, and the FHWA Resource Center Offices.

Public sector: can request a copy of the video from FHWA or Volpe Center while supplies last

FHWA
Office of
Environment and Planning
Bob Armstrong
202-366-2073

Volpe Center
Acoustics Facility
Judy Rochat
617-494-2372
rochat@volpe.dot.gov

Private sector: video will be available through NTIS
www.ntis.gov, 800-553-NTIS

(available March 1999)

TNM REFERENCE SHEETS

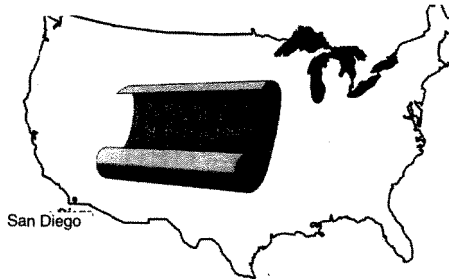
A series of TNM Reference Sheets — 15 densely packed pages — are now available from Harris Miller Miller and Hanson, Inc., developers of TNM.

These reference sheets provide condensed instructions for TNM setup, input calculations, barrier analysis, parallel-barrier analysis and contour computation. More importantly, they provide critical warnings and useful hints that supplement the TNM User's Guide and instructional CD. HMMH plans to periodically update these sheets and to add half-page discussions of selected TNM complexities, from time to time.

To view or download these TNM Reference Sheets (Acrobat format), please visit www.hmmh.com on the web. The sheets are located there under Training, TNM, TNM Reference Sheets. Suggestions for their improvement would be welcomed by ganderson@hmmh.com. ■

TRB COMMITTEE A1F04 THIRD ANNUAL SCHOLARSHIP PROGRAM

Purpose: To increase attendance at committee A1F04 summer meeting.



Eligibility: All A1F04 committee members active in transportation-related noise issues.

Details: Between 3 and 5 scholarships will be awarded for the upcoming summer meeting in San Diego, California, scheduled for August 1-2, 1999. The scholarship will include conference registration, 5-night hotel accommodations, and up to \$500.00 towards airfare. The number of scholarships to be awarded will be based on budgetary constraints. Willingness to make a presentation at the meeting will also be considered in the award process.

How do I apply?: By April 30, 1999, send a brief letter describing your budgetary constraints and a paper abstract for presentation (if applicable) to:

Cynthia Lee
Volpe Center, DTS-34
55 Broadway
Cambridge, MA 02142

Submissions will be evaluated and announcement of award will be made by May 31, 1999.

Note: Awardees will be required to submit an expense report prior to reimbursement.

CORRECTIONS

After Issue No. 35 (May/Jun), we lost our way and tagged Issue No.36 as Jun/Jul (but only on the cover – the interior pages were properly tagged at the bottom line as Jul/Aug). Issue No. 37 was properly designated as Sep/Oct, but due to terrible things that the editor writes about in his column, Issue No. 37 didn't reach our readers until after Thanksgiving.

You are now reading Issue No. 38, tagged Jan/Feb. What happened to Nov/Dec?, you might say. Well, they went home for Christmas and never came back. Just stick with the numbers; that's what counts.

TNM Course 12-16 April 1999 Boston, Massachusetts

Sixth course given by HMMH Inc., developers of TNM

- ◆ Authors of *TNM Reference Sheets* at www.hmmh.com (Training...)
- ◆ Prior courses in Albany, Burlington MA, Sacramento, San Diego and Richmond (March 99) — taught by Mr. Anderson and Mr. Barrett
- ◆ Official TNM courses for New York State DOT, Caltrans, Virginia DOT
- ◆ Principal Instructor: Grant Anderson, head of TNM development

Student comments:

Quality of instructors was outstanding. The notebook is excellent. Discussion of real world situations...was very useful.

The HMMH Macros should help a great deal. The hands-on workshop approach was very effective, as was the open discussion.

Grant Anderson is a remarkably good and patient teacher. It's a lot of fun to learn from this pioneer of the industry.

The TNM Reference Sheets are an excellent idea — much better than having to search the entire User's Guide.

Gets "hands on" quickly.... Questions were answered cheerfully. The TNM Reference Sheets are a great idea.

The principal instructor was very knowledgeable, precise, very clear, explaining every step that he did very clearly, and willing to help with problems — and he never ran out of energy.

I had no noise training to date. This course gave me a lot of information that I needed.

Course information and registration: www.hmmh.com, then Training.

Or contact Doug Barrett: dbarrett@hmmh.com, 781-229-0707, fax 781-229-7939

TNM Tips

by Bill Bowlby, President
Bowlby & Associates, Inc.



First of all, thanks for the enthusiastic response to the first column. Seems like you want information for both new and more experienced users, which we shall try to accommo-

date in this column. So, here we go.

**"Remember the 'Alamo'?
Remember the 'Maine'?
Remember the 'Remember
As'!"**

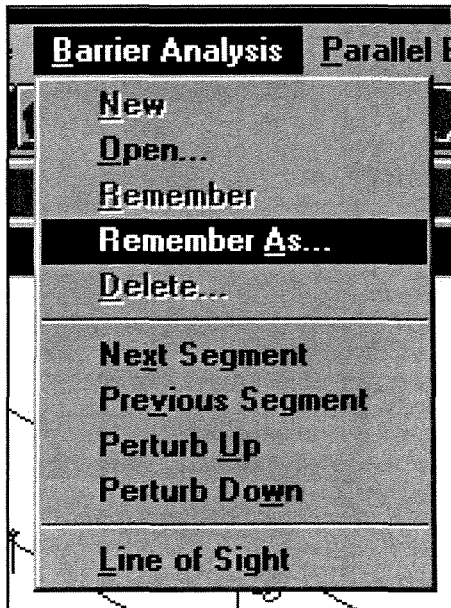
In the last issue, we talked about the concept of a TNM "run" and making input data changes without invalidating your calculations results. Basically, you must first create a new run with a new name using the File Save As command. You cannot make the changes and *then* use File Save As to save those changes under a new run name. TNM will require you to first save the changes under the old name, invalidating your results

This issue, I want to focus on a similar concept, but within TNM's Barrier Analysis module. One of TNM's most significant advances is the graphical design of noise barriers. While the initial TNM sound level calculations can literally take overnight for a complex problem with many barrier height steps (even on a fast machine), barrier design is much faster, more intuitive and, dare I say, more fun than with the current OPTIMA program.

Once you've run TNM and it completes its calculations, it saves the run under the current run name. You're now ready for barrier design. As you design, you may find several sets of barrier heights worth preserving. To preserve them, you 'remember' them, in TNM-speak. The concept of a remembered design is like naming a graph in a spreadsheet: you may create and name different graphs of your data; they are embedded in your spreadsheet, but are not saved to disk until you save the spreadsheet.

With TNM, after you select the barriers and receivers to use in the design, you click on

Barrier Analysis on the main menu, and on New, which opens the Barrier View. The title for this Barrier View will be 'unsaved'. Before starting your design, you need to give it a name -- by using the Remember As command under Barrier Analysis. You'll also notice a Remember command, but it will be grayed out initially.



The difference in these two commands can be confusing. Basically, you start by using Remember As. In my view, RememberAs means 'create a new design name for *upcoming* changes.' It helps to think of Remember As as 'Remember *Upcoming* Design As.' (It also depends on what your definition of 'is' is.) The separate Remember command is then used when you wish to preserve the height changes that you have made under the current design name.

Confusing? This structure is similar to the File Save and File Save As commands for saving TNM runs. You use File Save As to create a new run *before* you make input data changes to your old run. (By the way, you only invalidate your calculated results when you change input data, not when you change barrier heights in the Barrier Analysis module.)

Unlike 'Save As' in word processor and spreadsheet programs, TNM's Save As and Remember As commands do *not* mean 'save what you *just did* under the name you are about to provide.'

As a guide, try the following work flow when doing barrier designs:

1. When you start, use Remember As to create a design name for your upcoming work;
2. Always use Remember after when you have a set of heights you wish to preserve;

and

3. If you wish to make more changes but want to preserve what you have just 'remembered,' immediately use Remember As and enter a name for upcoming work. Any subsequent changes you make will be assigned to this new design name.

Repeat this process until you are done with this Barrier Analysis session.

When you use Remember As to create a new design name, the Barrier View is to its initial state, losing any 'showing' of text and any rotating or zooming of the view. However, the windows for any opened design tables remain unchanged in size, shape or position. What does change in each table is the Barrier Design title, now showing the new Remember As name. (Note that if you use the Barrier Analysis Open command, you will get a new barrier view, but any previously opened tables will not apply to this design. You must open a new set of tables.)

One trick about the design tables: The Barrier View has to be the active window immediately before you open each table, else the table will not apply to that design. If the BARRIER DESIGN line in the table header says INPUT HEIGHTS, close the table, click in the Barrier View window, and reopen the table.

So, please remember: Remember As, then Remember, then Remember As again. Got it? Good, now can someone explain it to me?

**"Row, row, row your boat...
got any Floating Point
errors recently?"**

Many of you have reported crashes during TNM's calculations with a Floating Point Invalid error message (or a General Protection Fault error). Cyndy Lee reports that the USDOT Volpe Center is on to the problem and tracking down the culprits. In the meantime, don't give up all hope, and don't toss your PC, or your colleague who said, "Hey let's use TNM on this project," out the window.

One case where the runs have been bombing has had large positive X (or Y) coordinates and large negative Y (or X) coordinates (on the order of +/- 500,000). The second, as first pointed out to me by Chris Menge of HMMH, has 7-digit coordinates typical of what you'd get from a state plane coordinate system.

(continued next page)

The generally successful solutions: translate mixed sign coordinates to all positive (or all negative) values (or small negative/large positive), or move the whole coordinate system closer to the origin. Translating, of course, means your coordinates will no longer match the state plane system.

How to transform? Try copying and pasting from the input dialog boxes into a spreadsheet, translating in the spreadsheet and then copying back. Or, as suggested by Rennie Williamson of Bowlby & Associates, zoom way out on the run, draw a box around the whole run to select every object, then use the Ctrl+Left Mouse Button 'Move' function and drag the whole run closer to the origin.

Sometimes, translating still doesn't work. Most of the time when the crash occurs, TNM displays the receiver name and roadway name/segment point number being processed during the crash (keep your roadway names short if you want to see the segment being processed). Sometimes, moving the receiver a few feet will solve the problem; sometimes it won't. If all else fails, delete the receiver or if you think the segment is really inconsequential, delete it. If it still doesn't work, then toss something or someone out the window.

One big frustration about these crashes: it appears like you lose all your prior results. But all is not lost! Rerun TNM, open the crashed run, and begin to calculate again. The blue status bar will move to its prior position before the crash. Then before TNM crashes again, hit the Cancel button. You can then view the earlier results in your tables. But remember File Save As if you want to preserve them before tinkering.

Keep those tips up! From Bill Kaufell of Skelly & Loy: Want to enter a bunch of receiver coordinates without digitizing each receiver (or copying/pasting or typing one at a time)? Use a spreadsheet to create them, then format it like a STAMINA file, save it as a text file, and then import into TNM as a STAMINA file. Voila! Thanks, Bill.

Bill Bowlby co-teaches a TNM Training Course with Roger Wayson of the University of Central Florida. When not TNM-ing, he makes noise for the latest entrant in the NHL, the Nashville Predators. Let's go Pred-a-tors!

Words From The Wise

"Progress is impossible without change, and those who cannot change their minds cannot change anything"

— George Bernard Shaw

"Adversity causes some men to break, others to break records"

— William Arthur Ward



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**Federal Highway
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FEDERAL HIGHWAY ADMINISTRATION TRAFFIC NOISE MODEL (FHWA TNM®) LOOK-UP TABLES

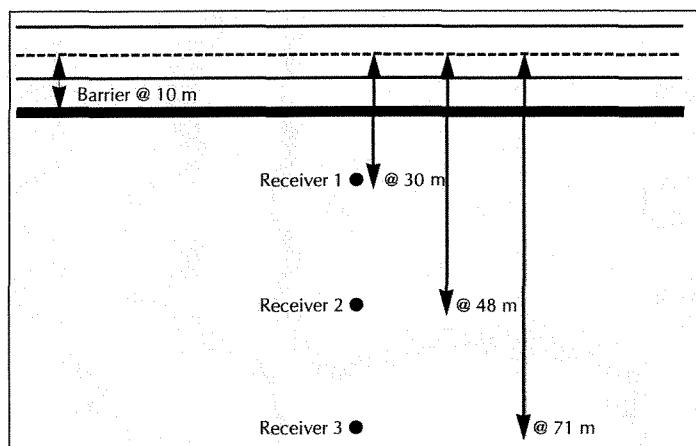
400 Seveenth Ave., S.W.
Washington, D.C. 20590

July 1998

In March 1998, the Federal Highway Administration (FHWA) released the FHWA Traffic Noise Model (FHWA TNM~)), Version 1.0, a state-of-the-art computer program for highway traffic noise prediction and analysis. Unlike its predecessor, STAMINA 2.0/OPTIMA, TNM is a Windows-based program with increased capabilities and scientifically-founded acoustic algorithms, which have undergone some field validation. Comparisons have shown TNM to agree extremely well with field measured data.

To provide analysts with a quick screening tool for evaluating simple highway geometries, the U.S. Department of Transportation, Research and Special Programs Administration, John A. Volpe National Transportation Systems Center (Volpe Center), Acoustics Facility, in support of the FHWA, Office of Environment and Planning, has developed a set of look-up tables for TNM. The TNM Look-Up Tables are accompanied by a complementary DOS program entitled, TNMLOOK. TNMLOOK is a Volpe-developed user friendly program written in Microsoft Fortran Version 5.0 for the PC-compatible computer.

The objective of the look-up tables is to provide a reference of pre-calculated TNM results for simple highway geometries. Simple highway geometries entail sound levels propagated from an infinitely-long, straight roadway over flat ground to receivers at user-selected offset distances. All receivers are set at a height of 1.5 m above the ground. If desired, an infinitely long straight barrier may also be included. A general example of this geometry is shown in the figure below.



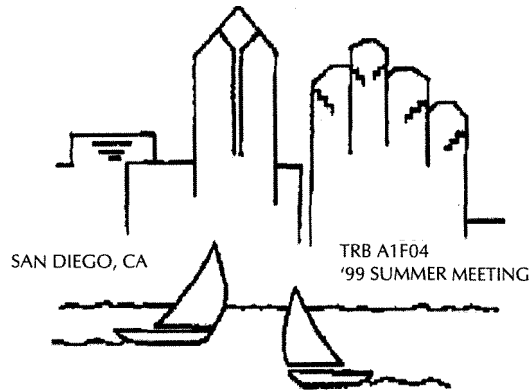
Specifically, the tables contain results for the following parameters:

- Five vehicle types (automobiles, medium trucks, heavy trucks, buses, and motorcycles) at speeds of 0 to 130 kilometers per hour (km/h) in 10 km/h increments;
- Sound level propagation over acoustically hard or soft terrain;
- A single wall barrier (if desired) at a height of between 2 and 10 m, and located at a distance of either 10 or 30 m from the centerline of the roadway; and
- Receivers at distances from 10 to 300 m in 10 m increments from the centerline of the roadway.

To determine sound levels, or barrier insertion loss values, for receivers associated with a particular geometry, the user has a choice of (1) using the complementary DOS program, TNMLOOK; or (2) using the printed Look-Up Tables. Note that while the Look-Up Table data exist in the above fixed parameter increments, TNMLOOK will interpolate within these increments. For example, the Look-Up Table contains data for receivers at distances 10 to 300 m in 10 m increments - the TNMLOOK program will interpolate data at any distance within 10 to 300 m. TNMLOOK will not, however, extrapolate values beyond the range of the fixed parameter extents. ■

You may request a copy of the FHWA TNM Look-Up Tables and complementary DOS program from the Volpe Center:

Email: Lee@Volpe2.dot.gov
Phone: (617) 494-2372
Fax: (617) 494-3208



TRB A1F04 Committee Summer Meeting

You are invited to attend and participate in the activities of the Transportation Research Board's A1F04 Committee Summer Meeting on Transportation Related Noise and Vibration, to be held **August 1 to 5, 1999, San Diego, California**. The meeting will focus on current topics relating to rail/transit, aircraft, and highway traffic noise and vibration. Also featured at this meeting will be numerous exhibits, field trips, and one day devoted to a TNM® noise prediction model workshop.

This year the meeting will be held at the **Doubletree Hotel San Diego Mission Valley**. A block of rooms has been reserved for meeting participants at a special rate of \$102.00 plus tax for both single and double accommodations, per night. The rate and room availability is guaranteed up to June 16, 1999, so please make your hotel reservations early and **be sure to mention that you are attending the Caltrans/TRB A1F04 meeting**. For reservations call **(619) 297-5466**. Although there is a toll free number (800) 222-TREE, the hotel recommends calling the (619) number, which has the up-to-date information on the meeting and availability of the special rate rooms.

Registration cost is \$185, which includes all presentations, handouts and technical material, field trips, etc.). **Persons and/or firms interested in either securing exhibit space or sponsoring special events** (breaks, reception, lunch, social and spouses programs, etc.) should contact one of the persons indicated below. Space is limited so reserve your space as soon as possible.

CALL FOR PRESENTATIONS

- ***Titles of presentations must be submitted by April 19, 1999.***
- ***Abstracts of presentations and audio/visual needs must be submitted by June 4, 1999.***

Please forward all submissions or requests for registration information to:

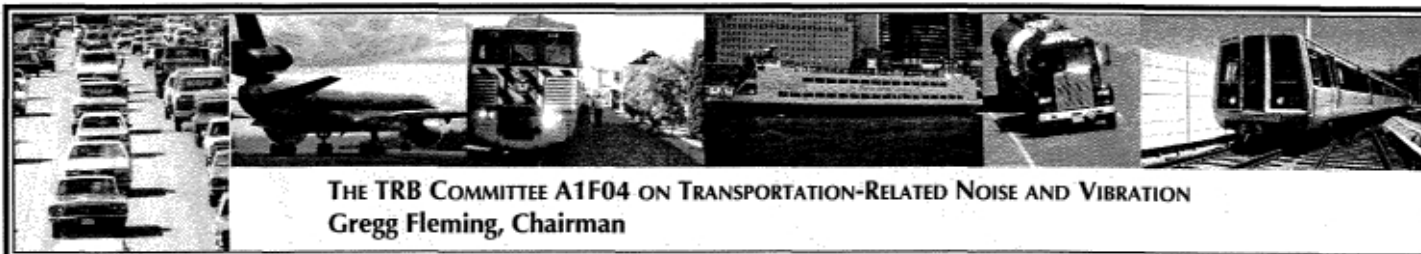
Rudy Hendriks (916)653-2271; E-mail: rudy_hendriks@dot.ca.gov

Or: Joya Gilster (916)654-6362; E-mail: joya_gilster@dot.ca.gov

California Department of Transportation Fax: (916) 653-7757

Environmental Program, Mail Station 27

P.O. Box 942874, Sacramento, CA 94274-0001



THE 1998 SUMMER CONFERENCE OF THE TRB A1F04 COMMITTEE ON TRANSPORTATION-RELATED NOISE AND VIBRATION



The scene at the Annual Awards Dinner of the TRB A1F04 Committee in Washington, D.C.



Chairman Gregg Fleming calls on the Best Paper Award winners to stand up and accept.



Gregg congratulates winners Elvin Pinckney (Ohio DOT) and Lloyd Herman (Ohio University).



Ken Polcak of Maryland DOT, Chairman of the A1F04 Highway Subcommittee, presides at an evening meeting.



Lloyd Herman presents the Award-winning Paper at Wednesday night Paper Session



Roger Wayson of University of Central Florida describes the AAMA Community Noise Model

🍏 The Wall Journal extends its thanks to Eric Stusnick for the digital pictures on this page. — Ed.



Dave Coate (Acentech, Inc.), Mike Staiano (Staiano Engineering) and wife, and Roger Wayson (University of Central Florida) at the Awards Dinner



Steve Ronning (FHWA) and Paul Schubring (Carsonite International) at the Awards Dinner



Betsy and Grant Anderson (HMMH Inc.), Soren Pedersen (Ontario Ministry of Transportation), and Harvey Knauer (Environmental Acoustics, Inc.) at the Awards Dinner



Larry Fitzgerald (new A1F04 subcommittee chairman and U.S. Air Force) and Michiko So (Nihon University in Japan) at the Awards Dinner.



Eric Stusnick (Wyle Labs) is presented with the first A1F04 Member Emeritus Award by Wayne Kober (pennDOT).

Eric Stusnick
Deputy Director of Research
Wyle Laboratories
2001 Jefferson Davis Highway
Crystal Plaza # 1, Suite 701
Arlington, VA 22202-3604

Dear Mr. Stusnick:

Congratulations. It is my pleasure to offer you an appointment as a Member Emeritus of the Transportation Research Board's Committee on Transportation-Related Noise and Vibration (A1F04). This invitation is extended at the request of the committee chair, with the full support and endorsement of the committee. Your selection represents peer recognition at the highest level.

TRB established the emeritus membership category this year as a means of recognizing the significant and long-term contributions of individuals who have provided outstanding service through participation in our standing committees. But your selection as a Member Emeritus goes beyond this recognition. Our objective is to encourage you to continue your active participation with the committee as long as you wish to do so. Your acceptance of this appointment should, therefore, be made with the commitment to serve as a resource for special assignments that the committee may request in the future.

We hope that you will accept this appointment and be our guest at the TRB 78th Annual Meeting and the Chairwoman's Luncheon. At this year's Luncheon, we will recognize the first group of individuals selected as Members Emeritus. The Annual Meeting will take place in Washington, D.C., January 10-14, 1999, and the Luncheon will be on Wednesday, January 13. Please return the enclosed acceptance form and indicate if you can join us at the meeting.

Congratulations again on this special honor— recognition by those who have firsthand knowledge and appreciation of your many contributions to TRB.

Very Truly yours,
Robert E. Skinner, Jr.
Executive Director

The Noise Barrier Construction Forecast

An updated look at potential noise barrier projects in the making. This survey was provided to us by LEAP Associates International of Florida, consultants to the precast concrete industry for projects in the transportation construction field.

For further information, contact Cindy Thomas, LEAP Associates International, 11602 N 51st St, Suite 100, Temple Terrace, FL 33617, Tel. 813 988-6870.

1998 LEAP Associates International, Inc. Sound Wall Survey Results

State Dist/Reg	Location	Bid Date	Cycle	Materials	H X L	Project Contact Info
AL	No projects to bid, in design or PD&E					
AK	C St. Extension	Jan-02	PD&E	Not specified		Jenne Ruehle, 907-269~534
AR	No projects to bid, in design or PD&E					
CA 1	No projects to bid, in design or PD&E					
CA	Mm 101	Jan-00	PD&E	Concrete block		H. A. Forsen 510-286-5127
CA 4	CC680	Apr-00	PD&E	Concrete block		H. A. Forsen 510-286-5127
CA 4	Ala 238 R14		PD&E	Concrete block		P. K. Pang 510-286-5125
CA 4	Ala 680 M7	May-03	PD&E	Concrete block		R. Tsung 510-286-5295
CA 4	Son 101	Sep-99	PD&E	Concrete block		R. Gong 510-286-5667
CA 4	Nap29	Mar-01	Design	Concrete block	3.3m X 285m	S. Fakharzadeh 510-286-6011
CA 4	Nap29	Mar-01	Design	Concrete block	4m x 295m	S. Fakharzadeh 510-286-6011
CA 4	Sol37	Feb-02	Design	Concrete block	4m x 768m	V. Bonner 510-286-5648
CA 4	Sol37	Feb-02	Design	Concrete block	3.7m x 1758 m	V. Bonner 510-286-5648
CA 4	CC4	Aug-99	Design	Concrete block	4.4m x4553m	H. A. Forsen 510-286-5127
CA 5	Santa Cruz Route 1/17 I/C	Jan-02	PD&E	Not specified		Steve DiGrazia, 50 Higuera St. San Luis Obispo, CA 805-549-3437
CA 5	Summerland Rte 101, Santa Barbara County	Jan-01	PD&E	Not specified		Tim Gnbbins 50 Higuera Stt. San Luis Obispo, 805-549-3133
CA 5	Santa Maria Rte 101, Santa Barbara County	Jan-02	PD&E	Not specified		Tim Gnubbins 50 Higuera St. San Luis Obispo, 805-549-3133
CA 6	No projects to bid, in design or PD&E					
CA	No projects to bid, in dssign or PD&E					
CO	1-25 Quincy to Hampden	Jan-99				
CO	SH6 Quincy to Hampden	Jan-00				
CO	1-70 Tabor-East	Jan-01				
CO 3	No projects to bid, in design or PD&E					
CO 4	BerlhoudlLoveland, CO.	Feb-00	PD&E	Brick/Precast Panels	Unknown	Dave Martinez, Res.Engineer, 2207 E. Hwy 402, Loveland, CO
CT Env Plng	I-95, Branford Interchange 56		Desig	Wood	Unknown	Desmond Dickey, PO Box 317546, Newington, CT 06131-7546
CT Env Plng	1-84 Southington		PD&E	Wood	Unknown	Desmond Dickey,POBox317546, Newington, CT 06131-7546
CT Env Plng	1-95, New Haven Branford		PD&E	Wood	Unknown	Desmond Dickey, PO Box 317546, Newington, CT 06131-7546
CT Env Plng	1-84/Route 72, Bristol/Plainville		PD&E	Wood	Unknown	Desmond Dickey, PO Box 317546, Newington, CT 06131-7546
CT Env Plng	I 91, Rocky Hill, Wethersfield		PD&E	Wood	Unknown	Desmond Dickey, PO Box 317546, Newington, CT 06131-7546
DE	SR273, Newark		PD&E	Not Specified	Unknown	Rich Vetter, PO Box 778, Dover, DE 19903 302-760-2134,
DE	SR1 Dover		PD&E	Not Specified	Unknown	Rich Vetter, PO Box 778, Dover, DE 19903 302-760-2134
FL 1	1-4 Corridor, Hillsborough County line to Osceola County line	Jun-05	PD&E/De sign	Concrete block covered w/stucco (residents to pick)		Maria Formosa 941-519-2306
FL 4	State Rd. 7 Palm Beach County		Design	Precasat 2-sided finish		Ken Campbell
FL 4	I-95 walls	Ongoing	Being let with other projects	precast & andras	16'-22' precast 3-4' andras x approx. 30,000 sft	Ken Campbell

State	Dist/Reg	Location	Bid Date	Cycle	Materials	H X L	Project Contact Info
FL	5	Lake County US 441			PD&E	Undetermined	Tianjia Tang 904-943-5400
FL	6	SR934/Hialeah Xway. SR 826 to NW 57th Ave/W 8 Ave.	Jun-02	Final Design	Concrete	2' x 453'	Yuanet Letzelter 305-470-5492
FL	6	SR 826/Palmetto Xway. SW 32nd St. to SW 16th St.	May-06	Design	Final Concrete		Jason Chang 305-470-5331
FL	6	SR 826/Palmetto Xway. SW 16th St. to SW 2nd St.	May-06	Design	Final Concrete		Ali Toghiani 305-470-5343
FL	6	SR 83611-9511-395. NW 17th Ave. to MacArthur Causeway			PD&E Hold	Concrete	Ana Arvelo 305-470-5210
FL	7	Alexander St: Baker St. to 14			PD&E	2 walls, 5,960 sf	WPI# 2578391, Jai Ramkisoon
FL	7	1-4: 50th St. to SR39	Jan-03		PD&E	4 walls, 142,960 sf	WPI# 2586651, Robin Rhinesmith
FL	7	1-275: Busch Blvd. to US41 Overpass			PD&E	10 walls, 263,027 sf	WPI# 2584431, Ron Glass
FL	7	1-275/1-4 Downtown Interchange	Jan-02		PD&E	6 walls, 160,027 sf	WPI# 2586431, Irwin Prescott
FL	7	1-275 2A			PD&E	Not in 5 Yr Work Plan	WPI# 258337, Irwin Prescott
FL	7	1-275 3A/3B	Jan-03		PD&E		WPI# 258401, Irwin Prescott
FL	Turnpike	Palm Beach County Turnpike & 710 Interchange			PD&E		Catherine Bradley 850-488-4671
FL	Turnpike	widening of Sawgrass Xway between Sunrise & Atlantic Ave.			PD&E		Debbie Milonski 850-877-7275
FL	Turnpike	Interchange Heft & 175 in Broward County			PD&E		Debbie Milonski 850-877-7275
FL	Turnpike	Western Beltway Part C Orange 14 to SR 50			PD&E		Cecil Powell 850-877-7275
FL	Turnpike	Thomas B. Manuel Bridge. St. Lucie County Okochobee Waterway			PD&E		Catherine Bradley 850-488-4671
FL	Turnpike	County Rd 470 Interchange in Lake City			PD&E		Debbie Milonski 850-877-7275
FL	Turnpike	Commercial Blvd. Interchange Broward County			PD&E		Sandra Lamb 850-877-7275
ID	ITD HQ	Boise, NHIB1841(003)1, Franklin IC -Curtis IC	Dec-98	Bid	Wood	10' x 550'	Doug Chase, PO Box 802, Boise, ID 83714-1367. 208-334-8322
ID	ITD HQ	Boise, IR1841(008)0 Wye Interchange Stage II	Jan-00	Design		Masonry & 10' x 550'	10' x 2200'Doug Chase, PO Box 802, 83714-1367. 208-334-8322
IL	1	No projects to bid, in design or PD&E					
IL	2	No projects to bid, in design or PD&E					
IL	3	No projects to bid, in design or PD&E					
IL	4	No projects to bid, in design or PD&E					
IL	7	No projects to bid, in design or PD&E					
IL	8	No projects to bid, in design or PD&E					
IL	9	No projects to bid, in design or PD&E					
IN	Prelim Eng. & Env.	Several studies underway involving the Borman Expressway.	None yet	PD & E	Not specified		
IA		I-235 Des Moines IA	2001-03	PD&E	Not specified	14 miles	Marty Sankey, 100 E. Euclid. #7, Des Moines IA 515-237-3515
KS	2	No projects to bid, in design or PD&E					
KS	2	No projects to bid, in design or PD&E					
KS	4	No projects to bid, in design or PD&E					
KS	6	No projects to bid, in design or PD&E					
KS	Design	No projects to bid in design or PD&E					
KY		KY1450 Jefferson Blvd. Ext. Jefferson Co.	Jan-02	Design	Precast or Brick	4m x 1525m	Butch Meyer, PO Box 37090, Louisville, KY 40233 502-367-6411
KY		Hurstbourne Pkwy. Ext. Jefferson Co.	Jan-00	Design	Precast or Brick	2 - 3 secUons	Butch Meyer, PO Box 37090, Louisville, KY 40233 502-367-6411
KY		KY 11 BaW Montgomery Co.		Design	Precast	5.8m x 215m	Doyle Hicks Box 347, Flemingsburg KY 41041 Phone: 606-2551
LA		2 No projects to bid, in design or PD&E					
LA		4 No projects to bid, in design or PD&E					
LA		8 No projects to bid, in design or PD&E					
LA		5~ No projects to bid, in design or PD&E					
LA	Design	I-10 & 1-12 corridors, Baton Rouge	Mar-00	Design	Concrete	20'-30' x 5.5 miles	Suzanne McCain, Box 94245 Baton Rouge, LA 70804 504-379-1356,
LA	Design Highway	I-10 & 1-12 Corridors, New Orleans	Present & within 2 years	Design	Concrete	12' - 24' x 7.57 miles	Suzanne McCain
ME	Design	No projects to bid, in design or PD&E					

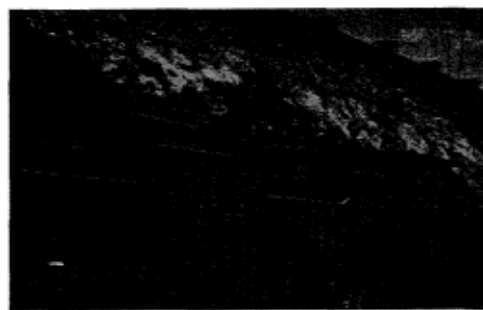
State	Dist/Reg	Location	Bid Date	Cycle	Materials	H X L	Project Contact Info
MD	Env Design	US-29 N.B. in Howard Co. from MD 105 W of MD 108	Jul-00	Design	Concrete	20' x 1800'	Fred Eisen, Project Manager, 707 N. Calvert St., Baltimore, MD 21202 410-545-8598
MD	Env Design	1-270 W. Spur SW Quad Democracy Blvd. Interchange	Jul-00	Design	Concrete	19' x 1467'	Fred Eisen, Project Manager, 707 N. Calvert St., Baltimore, MD 21202 410-545-8598
MD	Env Design	1-270 E. Spur from MD 187 to 2000'	Jul-00	Design	Concrete	18' x 4190'	Fred Eisen, Project Manager
MD	Env. Design	1495 from Greentree Rd. to Femwood Rd.	Jul-00	Design	Concrete	22' x 3320'	Fred Eisen, Project Manager
MD	Env Design	1495 from 2000' W. of Greentree Rd. to 1-270	Jul-00	Design	Concrete	16' x 1450'	Fred Eisen, Project Manager
MD	Env Design	1-495 from W. of Greentree Rd. to Bradley Blvd	Jul-00	Design	Concrete	18' x 3400'	Fred Eisen, Project Manager
MD	Env Design	1-495 from Bradley Blvd to N. of River Rd.	Jul-00	Design	Concrete	18' x 6500'	Fred Eisen, Project Manager
MD	Env Design	1-495 from E. of Seminary Rd. to Seminary Rd.	Jul-00	Design	Concrete	16' x 1237'	Fred Eisen, Project Manager
MA	En.Divi	Quincy-Milton, 1-93 Phase I	Jan-99	Bid	Concrete	12' x 3900'	Michael Paienwonsky, 10 Park Plaza Room4260, Boston, MA02116, 617-973-8245
MA	Env.Divi	Newton, 1-95 Wellesley	Jun-99	Design	Concrete	24' x 3100'	Michael Paienwonsky
MA	Env.Divi	Wakefield, 1-95	Apr-99	Design	Concrete	14' x 6700'	Michael Paienwonsky
MA	Env.Divi	Quincy-Milton, 1-93 Phase 11	Apr-99	PD&E	Concrete/shredded tires	Unknown	Michael Paienwonsky
MA	Env.Divi	Burlington NH Border Route 3. North	Apr-99	PD&E	Undetermined	Unknown	Michael Paienwonsky
MA	Env.Divi	Wellesley-Randolph Route 128 Add-A-Lane 9 locations	Jun-99	PD&E	Undetermined	10 separate barriers approx.	Michael Paienwonsky
MA	Env. Division	Plymouth-Carver, Route 44 2locations relocation	Oct-99	PD&E	Concrete 5000'	Unknown	Michael Paienwonsky
MI	Metro	No projects to bid, in design or PD&E					
MI	North	No projects to bid, in design or PD&E					
MI	Grand	No projects to bid, in design or PD&E					
MI	Superior	No projects to bid, in design or PD&E					



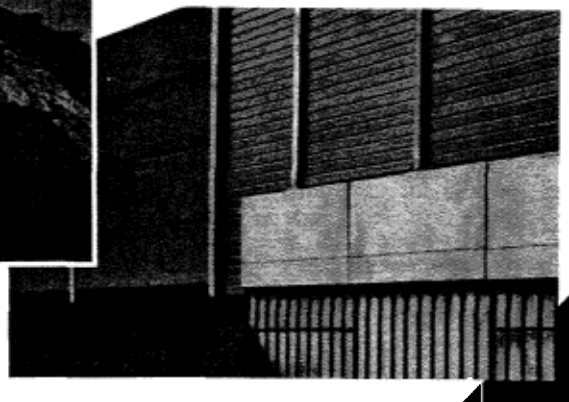
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State	Dist/Reg	Location	Bid Date	Cycle	Materials	H X L	Project Contact Info
MI	1	1-75 N.B. Outer Drive to Schaefer - Detroit	Jul-99	Design	Not Specified	15'-17' x 7800'	Don Papcun, Design Division 517-335-6779
MI		1-94 E.B. & W.B. 8 mi - 9 mi St. Clair Shores	Jan-00	Design	Not Specified	8'-12' x 7800'	Joel Ingle, Design Division 517-373-0746
MN	1	No projects to bid, in design or PD&E					
MN	2	No projects to bid, in design or PD&E					
MN	3	TH23 S. of St. Cloud (no noise walls identified yet)	Jan-01	PD&E	Not specified		Curt Eastland 1991 Ina Park Rd. Baxter MN 56425. 218-828-2479
MN	3	TH169 Miller County. (no noise walls identified yet)	Jan-05	PD&E	Not specified		Terry 3725 12th St. N. St. Cloud MN 56303 320454-5520
MN		No projects to bid, in design or PD&E					
MN		No projects to bid, in design or PD&E					
MS	Bridge Design	No projects to bid, in design or PD&E					
MO	1	No projects to bid, in design or PD&E					
MO		No projects to bid, in design or PD&E					
MO		No projects to bid, in design or PD&E					
MO	6	1-270 St. Louis County Sappington Rd. to Route 21	Fe-99	Bid sides	Rock texture both sides	10'-18' x 7350 lf	Lesley Hoffarth, 1590 Woodlake Dr. Chesterfield, MO 63017 314-340-4392
MO	6	Route 141 St. Louis County	Feb-99	Bid	Not specified	8'-10' x 987.4 sm	Lee Hillner, 1590 Woodlake Dr Chesterfield, MO 63017 314-340-4392
MO	6	1-270, St. Louis County	Feb-00	Design	Split block face both sides	7'-18' x 8350 lf	Lesley Hoffarth, 1590 Woodlake Dr. Chesterfield, MO 63017 314-340-4392
MO	6	1-55, St. Louis County	Feb-01	Design	Rock texture both sides	10'-16' x 6875 lf	Lesley Hoffarth, 1590 Woodlake Dr. Chesterfield, MO 63017 314-340-4392
MO	6	1-55, St. Louis County	Feb-02	Design	Rock or split block face	6'-14' x 6100 lf	Lesley Hoffarth, 1590 Woodlake Dr. Chesterfield, MO 63017 314-340-4392
MO	6	1-64, St. Louis County, 1-270 to Sarah Ave.	2003-2008	PD&E	Not specified	Unknown	Lesley Hoffarth, 1590 Woodlake Dr. Chesterfield, MO 63017 (see above)

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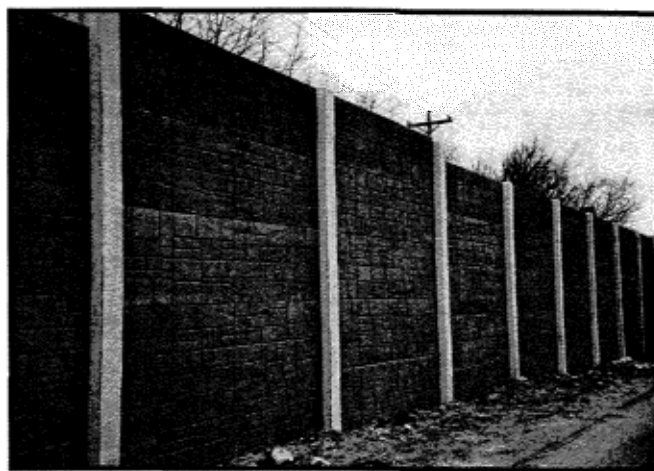
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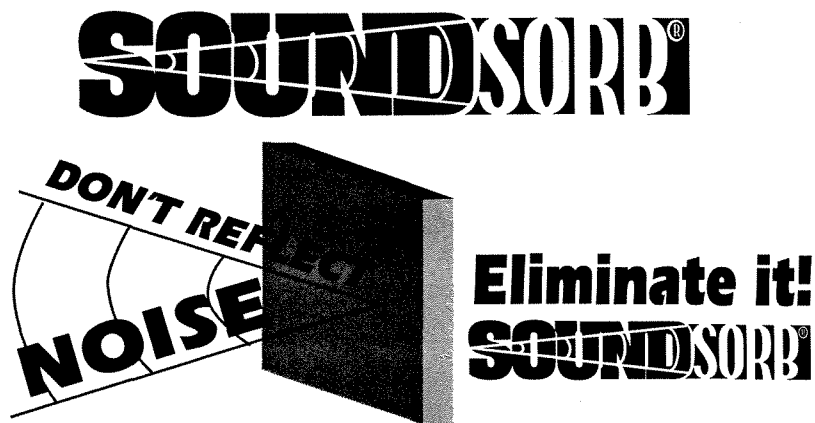
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State	Dist/Reg	Location	Bid Date	Cycle	Materials	H X L	Project Contact Info
MO	6	Route 364, St. Louis & St. Charles Counties	2004-2008	PD&E	Not specified	Unknown	Barry Bergman, 1590 Woodlake Dr. Chesterfield, MO 63017 314-340-439
MO	7	No projects to bid, in design or PD&E					
MO	8	No projects to bid, in design or PD&E					
MO	9	Route 60 Howell & Shannon Counties		PD&E	Not specified		
MO	9	Route. 63 Rolla Bypass, Phelps Co.		PD&E	Not specified		
MO	9	Route 63. Vida to Simmons Phelps & Teas. Counties		PD & E	Not specified		
MT	Great Falls	No projects to bid, in design or PD&E					
MT	Missoula	No projects to bid, in design or PD&E					
MT	Billings	No projects to bid, in design or PD&E					
MT	Butte	No projects to bid, in design or PD&E					
NE		680/Omaha Dodge to Maple	Mar-99	Design	Precast concrete	12' x 1000'	Mark Otteman, 94759, Lincoln, NE 68502 402-479-4684, Fax 402-479-4325
NV		1-15 widening Lake Mead to Blue Diamond	Sep-99	Design	Not specified	10' x 3900'	Kathleen Weaver, 1263 S. Stewart St. Carson City, NV 89712
NV		1-15 widening Sahara to Charleston combination barrier rail/soundwall	Oct-99	Design	Not specified	12'-14' x 1300'	Frank Csiga, 1263 S. Stewart St., Carson City, NV 89712
NV		1-515 Through Henderson	May99	Design	Masonry/Precast	12' x 25,000'	Jeff Hale, 1263 S. Stewart . Carson City, NV 89712 775-888-7680
NV		1-515 Las Vegas	Apr-99	Design	Masonry	12' x 800'	Jeff Hale, 1263 S. Stewart . Carson City, NV 89712 775-888-7680
NV		US-95 to Rainbow	Oct-00	Design	Not specified	18' x 75,000'	Jim Gallego, 1263 S. Stewart St., Carson City, NV 89712
NV		Carson City Bypass Phase I - combination barrier rail/soundwall	Apr-01	Design	Not Specified	12'-14' x 20,250'	Kathleen Weaver, 1263 S. Stewart St. Carson City, NV 89712
NV		Reno	Jul-00	Design	Not Specified	3/4 d a mile	Dennis Coyle, 1263 S. Stewart.St., Carson City, NV 89712 775-888-7680
NV		Reno	Feb-99	Bid	Concrete	2 cm x 95 cm	Mike Painter, 1263 S. Stewart St., Carson City, NV 89712



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State	Dist/Reg	Location	Bid Date	Cycle	Materials	H X L	Project Contact Info
NH		Manchester	Jun-99	Design	Concrete posts w/ wood panels	15'-30' x 3500'	Charlie Hood, PO Box 483,Concord, NH 03302 603-271-7199
NH		Manchester	Oct-00	PD&E	Concrete posts w/ wood panels	Unknown	Charlie Hood, PO Box 483,Concord, NH 03302 603-271-7199
NH		Manchester/Auburn	Oct-00	PD&E	Concrete posts w/ wood panels	Unknown	Charlie Hood, PO Box 483,Concord, NH 03302 603-271-7199
NH		Bedford	Oct-01	Design	Concrete posts w/ wood panels	5'-16' x 1600'	Charlie Hood, PO Box 483,Concord, NH 03302 603-271-7199
NJ		1-280 West Orange	10/99-2/00	Design	Conc. post&panel	15'-30' x 5000'	Chris Manz, PO Box 600, Trenton, NJ 08625 609-530-2511
NJ		1-80 Lodi Saddlebrook	May-99	Design	Conc. post&panel	12'-20' x 11,000'	Polina Knaster, Box 600,Trenton,NJ 609-530-3017
NJ		I-80 Totowa	Jaan-02	PD&E	Conc. post&panel	Unknown	Peter Kenny, Box 600, Trenton, NJ 08625. 609-530-8072
NJ		I-80 Hackensack	Jaan-02	PD&E	Conc. post&panel	Unknown	Peter Kenny, Box 600, Trenton, N 08625. 609-530-8072
NJ		1-80 Parsippany-Fairfield	Jan-02	PD&E	Conc. post&panel	Unknown	Peter Kenny, PO Box 600, Trenton, NJ 08625 609-530-8072
NJ		1-95 Leonia-Englewood		PD&E	Conc post&panel	Unknown	Peter Kenny, PO Box 600, Trenton, NJ 08625 609-530-8072
NJ		1-295 Lawrence-Hamilton	Jan-02	PD&E	Glulam Wood	Unknown	Peter Kenny, PO Box 600, Trenton, 08625 609-530-8072
NJ	Tumpike	Edison Township	after 1999	Bid	Precast concrete	15' x 3000'	Steve Buente, PO Box 1112 New Brunswick, NJ 08903 732-247-0900x5264
NJ	Tumpike	Edison Township	after 1999	Bid	Precast concrete	15' x 5000'	Steve Buente, PO Box 1112 New Brunswick, NJ 08903 732-247-0900x5264
NJ	Tumpike	Edison Township and Mercer County		Design	Precast concrete	15' x 3000'	Steve Buente, PO Box 1112 New Brunswick, NJ 08903 732-247-0900x5264
NJ	Tumpike	Various		PD&E	Precast concrete	Unknown	Steve Buente



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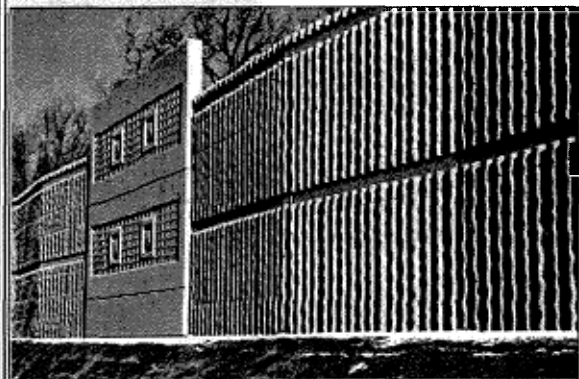
YUGOSLAVIA

MOROCCO

SPAIN

SWITZERLAND

UNITED STATES



State	Dist/Reg	Location	Bid Date	Cycle	Materials	H X L	Project Contact Info
NM		Big I project	Jan-00	PD&E	Undetermined	4-5 miles	Alex Whitney URS-Greiner, 505-222-4400
NY	2	Utica Rome Expressway. PIN 2017.23	Feb-99	Bid	PlasUc lumber	2-6m x 260m	Stephen Zywiak, Genesee St., Utica, NY 13501 315-793-2429,
NY	2	Judd Rd. Connector PIN 2230.08 Towns of New Hartford & Whitestown. Oneida Cty.	Oct-99	Design	Undetermined	5m x 700m	Stephen Zywiak, Genesee St., Utica, NY 13501 315-793-2429
NY	3	No projects to bid, in design or PD&E					
NY	5	No projects to bid, in design or PD&E					
NY	6	Elmira A Routerial, Chemung County	Jul-00	Design	Precast concrete	3.6m x 670m	James Crane, NYSDOT, 107 Broadway, Hornell, NY 14843 607-324-8474
NY	7	No projects to bid, in design or PD&E					
NY	8	No projects to bid, in design or PD&E					
NY		No projects to bid, in design or PD&E					
NC		Wake Co. US 64		PD&E	Pile & Precast Panels		David Bass, Roadway Design Raleigh, NC 919-250-4016
ND		No projects to bid, in design or PD&E					
OH	1	No projects to bid, in design or PD&E					
OH	2	Toledo IR 175	Jun-01	PD&E	Absorptive		David Lewis, 317 E. Poe Rd., Bowling Green OH 43402 419-353-1831
OH	2	Douglas IR 75	Jun-00	PD&E	Absorptive		David L. Lewis, PE., (see above)
OH 3		I-90 Lorain Co.	Apr-99	Bid	Concrete	16' x 5200'	Ken Wright, 906 N. Clarke St., Ashland, OH 44805 419-281-0513
OH	3	1-71 Medina Co.	Apr-00	Design	Concrete	20' x 7000'	Ken Wright, 906 N. Clarke St., Ashland, OH 44805 419-281-0513
OH	4	City of Akron Summit County	Jan-00	PD&E	Undetermined		Michael Madonio, 166 S. High St., Akron, OH 44308 330-375-2161
OH	5	No projects to bid, in design or PD&E					
OH	6	1 270 in NE Franklin County	Jan-02	Design	Textured concrete, 2-sided cutstone	Unknown	Jeffrey White, Delaware OH 43015 740-363-1251
OH	6	1270 in Northern Franklin County		PD&E	Undetermined	Unknown	Jeffrey White, (see above)
OH	6	171 in Northern Franklin County		PD&E	Undetermined	Unknown	Jeffrey White, (see above)
OH	6	171 in Southern Delaware County		PD&E	Undetermined	Unknown	Jeffrey White, (see above)
OH	6	1-670 in Downtown Columbus		PD&E	Undetermined	Unknown	Jeffrey White, (see above)

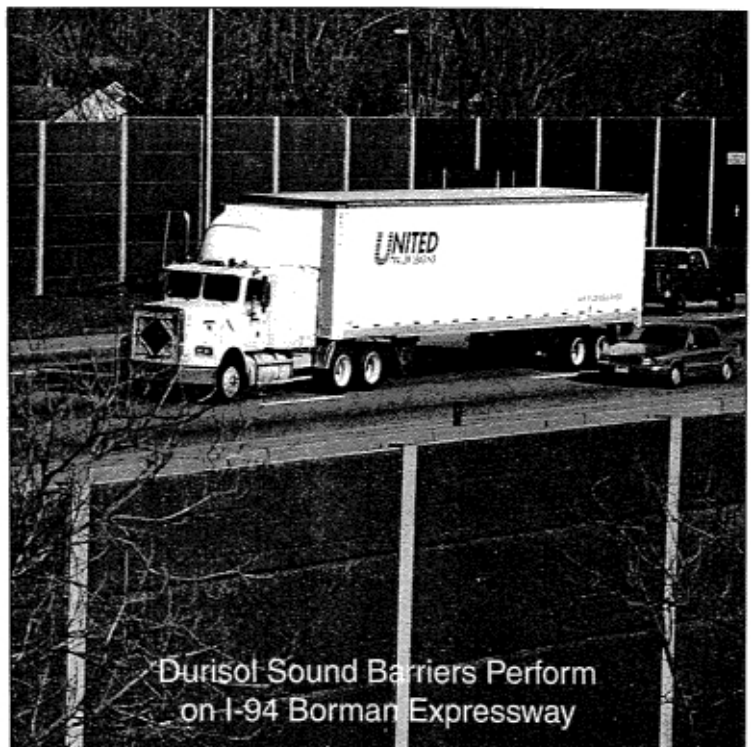
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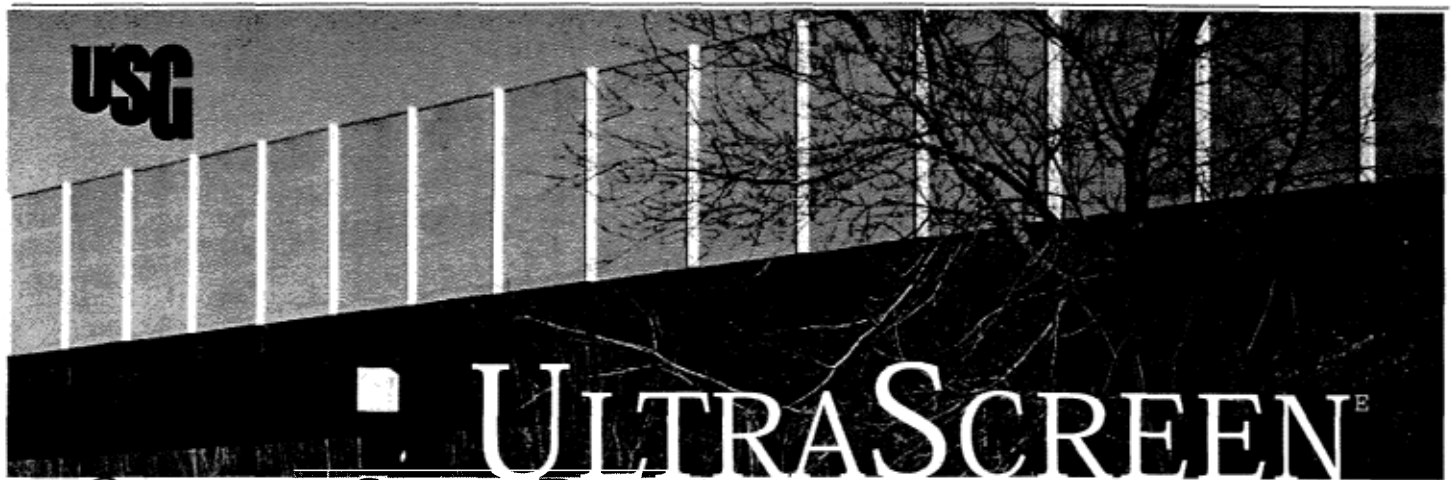


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State	Dist/Reg	Location	Bid Date	Cycle	Materials	H X L	Project Contact Info
OH	9	Law-7	Jan-02	PD&E	Undetermined	Unknown	Larry Wills, 650 Eastern Ave., Chillicothe 45601
OH	9	Ros-35	Jan-02	PD&E	Undetermined	Unknown	OH 45601
OH	11	No projects to bid, in design or PD&E					
OH		12 Weslake/IR-90	Jun-01	Design	Not specified	15' x 4000'	Craig Hebebrands, Dist. 12 Consultant Svcs. Eng.
OH		12 IR-90 Willoughby	Jan-03	PD&E	Not specified	Unknown	Mark Carpenter District 12 Engineer, 5500 Transportation Blvd., Garfield Heights, OH 44125. 216-581-2333
OK		SR 56/62	Mar-99	Bid	Precast concrete	3 m x 400	Jim Benson, PO Box 660Tulsa, OK 74101 918-838-9933
OK		US 169, Tulsa, OK	Jul-99	PD&E	Precast concrete	2000 m	Jim Benson (see above)
OK		1-44, Tulsa, OK	Oct-99	PD&E	Precast concrete	6 locations approx. 1/2 1 mile	Dawn Sullivan, 200 NE 21st St., Oklahoma City, OK 73105 405-521-2515
OK		BA Exp. (SH51), Tulsa OK	Apr-99	PD&E	Precast concrete	2240 sm	Jim Benson (see above)
PA		No projects to bid, in design or PD&E					
PA		No projects to bid, in design or PD&E					
TX	Austin	No projects to bid, in design or PD&E					
TX	Dallas	FM 3040 Flower Mound	May-99	PD&E	Not specified	Unknown	Barry Heard 940-387-1414
TX	Dallas	Jupiter Rd. Garland		PD&E	Not specified	Unknown	Ken Powers 214320-4412
TX	El Paso	Numerous projects in various stages of environmental study		PD&E	Not specified	Unknown	Judy L. Ramsey, PO Box 10278 El Paso TX 79994 915-714-4322
TX	Ft. Worth	SH-199 from IH 820 to proposed SH 121	Dec-96	PD&E	Undetermined	Unknown	Dean Tesner, PO Box 6868, Ft. Worth, TX 76115, 817-370-6627
TX	Ft. Worth	IH 820 from IH 35 W to SH26	Aug-02	PD&E	Undetermined	Unknown	
TX	Ft. Worth	IH 30 from Oakland Blvd. to proposed SH161	Jan-01	PD&E	Undetermined	Unknown	Dean Tesner (see above)
TX	Ft. Worth	SH 121 from IH 30 to FM 1187	Oct-02	PD&E	Undetermined	Unknown	Dean Tesner, (see above)
TX	San Antonio	many projects in the future, but will not be designed for several more years					Julia M. Brown, PE, Box 29928, San Antonio, TX 78284 210-615-629
TX	TumpikeS	SH130	Jan-05	PD&E	Undetermined	Unknown	Philip Russel, 125 E11th St., Austin TX 78701 512-936-0903
TX	Tumpike	US183A	Jan-00	PD&E	Undetermined	Unknown	Philip Russel
TX	Tumpike	SH45	Jan-00	PD&E	Undetermined	Unknown	Philip Russel



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TX	Tumpike	Loop 1	Jan-00	PD&E	Undetermined	Unknown	Philip Russel
UT	1	1-15, Clearfield 700S.- 1500S.	Apr-00	Design	Conc. post&panel	12' x 2800'	Bill Gooch, PO Box 12580 Ogden, UT PO Box 12580, Ogden, UT 84412. 801-399-5921
UT	1	1-15, 200 - 700S.	Jan-01	PD&E	Conc. post&panel	Unknown	Bill Gooch
UT	1	1-15, 650N. - 700S.	Jan-02	PD&E	Conc. post&panel		Bill Gooch
UT	1	1-15, Hill Villa Subdivision	Jan-02	PD&E	Conc. post&panel		Bill Gooch
UT	2	1-215 RP 2, Salt Lake County	Apr-99	Design	Conc. post&panel exposed aggregate	5m x 206m	Jim McMinimee, 2060 S 2400 W Salt Lake City, UT 84104 801-975-490
UT	2	1-215 RP 15, Salt Lake Count,v	Apr-99	Design	Conc. post&panel, exposed aggregate	4m x 440m	Jim McMinimee, (see above)
UT	2	1-215 RP17, Salt Lake County	Apr-99	Design	Conc. post&panel exposed aggregate	5m x 882m	Jim McMinimee, (see above)
UT	2	1-80 RP 125, Salt Lake County	Apr-00	Design	Conc. post&panel exposed aggregate	5m x 3504m	Jim McMinimee, (see above)
UT	2	1-80 RP 127 Salt Lake County	Jul-01	PD&E	Conc. post&panel exposed aggregate	Unknown	Jim McMinimee, (see above)
UT	2	1-15 RP 337 Davis County	Jul-01	PD&E	Conc. post&panel, exposed aggregate	Unknown	Dyke LeFevre. Box 12580, Ogden, UT 84412 801-399-5921
WA		SR 5 Sea Tac, Fife to Tukwila #28		Bid	Precast concrete	9'-19.5' x 2800'	Martin Palmer, PO Box 330310. Seattle,WA 93133 206-440-4544
WA		SR 5 Sea Tac, Fife to Tukwila #32		Bid	Precast concrete	9'-14' x 900'	Martin Palmer, (see above)
WA		SR 5 Sea Tac, Fife to Tukwila #33A		Bid	Precast concrete	10' x 1500'	Martin Palmer, (see above)
WA		SR 5 Sea Tac, Fife to Tukwila #31BB		Bid	CIP	8' x 1200'	Martin Palmer, (see above)
WA		SR5 Federal Way Fife to Tukwila #12		Bid	Precast	5'-10' x 2250'	Martin Palmer, (see above)
WA		SR5 Federal Way Fife to Tukwila #20		Bid	Precast	11'+2.8' x 2000'	
WA		SR18 Covington noise wall C extension		Bid	Precast	12' x 1160'	Martin Palmer, (see above)
WA		SR18 Maple Valley SE 26th wall F		Bid	Precast	14' x 1300'	Martin Palmer, (see above)
WA		SR 405 Bothell 4th Ave.		Bid	Precast	12' x 2000'	Martin Palmer, (see above)
WA		SR 405 Bothell W. Richmond		Bid	Precast	14' x 2000'	Martin Palmer, (see above)
WA		SR 405 Mill Creek N. Danvers		Bid	Precast	12' x 900'	Martin Palmer, (see above)
WA		SR 405 Lynnwood Magnolia Rd.		Bid	Precast	14' x 2000'	Martin Palmer, (see above)

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State	Dist/Reg	Location	Bid Date	Cycle	Materials	H X L	Project Contact Info
WA		SR 525 Lynnwood Sun Ridge/Serene Terrace		Bid	Precast	7.9'-17.7' x 1116'	Martin Palmer, (see above)
WA		SR 525 Lynnwood Lake Rd.		Bid	Precast	10.8'-15.5' x 814'	Martin Palmer, (see above)
WA		SR 525 Lynnwood Carraige Club		Bid	Precast	9.8'-11.5' x 1450'	Martin Palmer, (see above)
WA		SR 161 Kings Grove SR18 to Jovita		Design	Precast	8' x 800'	Martin Palmer, (see above)
WA		SR 161 Twin Cedars SR18 to Jovita		Design	Precast	10' x 600'	Martin Palmer, (see above)
WA		SR 161 Killamey Woods SR18 to Jovita		Design	Precast	8' x 500'	Martin Palmer, (see above)
WA		SR 161 Kloshe Illahee SR 18 to Jovita		Design	Precast	10' x 500'	Martin Palmer, (see above)
WA		SR 527 Mill Creek 144th Pl SE to Trillium Blvd.		Design	Precast	8' x 1100'	Martin Palmer (see above)
WA		SR 527 Mill Creek Trillium Blvd. to 138th St. SE		Design	Precast	8' x 600'	Martin Palmer (see above)
WA		SR 527 Mill Creek 138th St SE to Dumas Rd.		Design	Precast	10' x 500'	Martin Palmer (see above)
WA		SR 527 Mill Creek Dumas Rd.		Design	Precast	11' x 925'	Martin Palmer (see above)
WA		SR 14 Aberdeen-Hoquiam widening			PD&E	Precast	Martin Palmer (see above)
WA		SR 16 Tacoma Narrows Bridge widening		PD&E	Precast	15'-26' x 3000'	Martin Palmer (see above)
WA		SR 5 South of SR 16 HOV lanes		PD&E	Precast	Unknown	Martin Palmer (see above)
WA		SR 500 Vancouver Interchange		PD&E	Precast	Unknown	Martin Palmer (see above)
WA		SR 5 Vancouver widening		PD&E	Precast	Unknown	Martin Palmer (see above)
WA		SR 17 Moses Lake widening		PD&E	Precast	Unknown	Martin Palmer (see above)
WA		SR 14 Camas widening		PD&E	Precast	Unknown	Martin Palmer (see above)
VT		No projects to bid, in design or PD&E					
VA	Bristol	No projects to bid, in design or PD&E					
WY	1	No projects to bid, in design or PD&E					
WY	3	No projects to bid, in design or PD&E					
WY	4	No projects to bid, in design or PD&E					

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Sound Absorption at 125 Hz	1.1 (0.95)	0.3	0.3
Sound Transmission Class	38	51	38
Transmission Loss at 125 Hz	23	36	16
Std Panel Height, in. (mm)	24 (610)	48 (1219)	48 (1219)
Std Post Spacing, ft (m)	16 (5)	32.8 (10)	16 (5)
	REFLECTIVE SYSTEMS		
	NoiShield-R	Soundcore	AcoustaWood
Sound Transmission Class	27	51	38
Transmission Loss at 125 Hz	13	36	16
Std Panel Height, in. (mm)	16 (406)	48 (1219)	48 (1219)
Std Post Spacing, ft (m)	10 (3)	32.8 (10)	16 (5)



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A Fond Farewell to My Friend, Bill Pickett 1919 - 1998



I first met William H. Pickett (he's the gentleman on the left above) from Framingham, Mass. when he pushed open the door of my building in the town of Natick, Mass. That was in 1975 as I recall, and I had a little business installing computer rooms with raised floors and controlled environments for the major firms in New England.

Bill was working for Bolt, Beranek & Newman at the time, and they were just beginning to get into cybernetics in a big way. He had seen a little ad about what my company did in the local phone book. Bill was kind of a jack-of-all-trades at BBN, and he was looking for someone to build a proper facility for the operation of computer equipment. I took Bill on a tour of some of my good clients; John Hancock Life, M.I.T., IBM, Federal Reserve Bank, Christian Science Monitor, and the like.

I got the first job for BBN, and the Messrs. Bolt, Beranek and Newman seemed pleased with the work my crew did. After that, we continued to get more work as BBN acquired more equipment. I saw so much of Bill on the job sites that, after a while, he started dropping into my offices on his way home from Cambridge.

His wife, Trudy (a great lady he fairly deserved), had a good position at Wellesley College, and she didn't mind that, so Bill and I spent a lot of time together over the years. Especially, when Bill and I formed The Fanwall Corporation and got into the highway traffic noise abatement business. Bill eventually formed his own company, Pickett Wall Systems, Inc. His ad has been in The Wall Journal from its beginning, always here in the back pages as he wished.

Bill was quite a guy. He had an innovative mind, and an impassioned desire to succeed.

I miss him.

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