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counsellors at law

Cary R Kadlecek
ckadlecek@goulstonstorrs com
202-721-1113 Tel

September 4, 2012

VIA HAND DELIVERY

D.C. Board of Zoning Adjustment
441 4th Street NW, Suite 210S
Washington, DC 20001

Re: BZA Application No. 18404 – Pre-hearing Submission

Dear Members of the Board:

Enclosed please find one original and 20 copies of the Applicant's pre-hearing submission in the above-referenced case. This case is scheduled for a public hearing on September 18, 2012.

Should you or your staff have any questions, please do not hesitate to contact me.

Sincerely,

Cary R. Kadlecek

Enclosures
DCDOCS\7063544 1

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BOARD OF ZONING ADJUSTMENT
District of Columbia
CASE NO. 18404
EXHIBIT NO. 31

Board of Zoning Adjustment
District of Columbia
CASE NO 18404
EXHIBIT NO.31

CERTIFICATE OF SERVICE

I hereby certify that on September 4, 2012, copies of the attached letter and enclosures were delivered via U.S. Mail or messenger to the following:

Arthur Jackson
D.C. Office of Planning
1101 4th Street SW, Suite E650
Washington, DC 20024

ANC 8D
4601 Martin Luther King Jr. Ave. SW
Washington, DC 20032

Cary Kadlecek

BEFORE THE BOARD OF ZONING ADJUSTMENT
OF THE DISTRICT OF COLUMBIA

Application of Chaney Enterprises LP
ANC 8D

BZA Application No 18404
Hearing Date September 18, 2012

APPLICANT'S PRE-HEARING STATEMENT

This is the pre-hearing statement of Chaney Enterprises LP ("**Applicant**") for special exception relief for a concrete plant. The property that is the subject of this application is 3 DC Village Lane, SW (Square 6264, part of Lot 801) (the "**Property**")

I. NATURE OF RELIEF SOUGHT

The Applicant requests that the Board of Zoning Adjustment ("**Board**" or "**BZA**") approve a special exception, pursuant to Section 802 17 of the Zoning Regulations (11 DCMR § 802 17), to allow a facility that manufactures, processes, mixes, stores, and distributes concrete

II. JURISDICTION OF THE BOARD

The Board has jurisdiction to grant the special exception relief requested pursuant to Section 3104 1 of the Zoning Regulations (11 DCMR § 3104 1).

III. DESCRIPTION OF THE PROPERTY

The Property is an irregularly shaped parcel containing approximately three (3) acres of land area. The Property's exact boundaries are illustrated on the plat in Exhibit A. The Property is located in Ward 8 and the DC Village neighborhood of Southwest Washington. The Property contains a portable concrete batch plant in operation. The Property is roughly bounded by DC Village Lane to the north; the Maryland border to the south; industrial land to the east; and an automobile impound lot to the west. Surrounding land uses are predominantly industrial in nature The Property is surrounded by an asphalt plant to the southwest and east and by a District-operated

warehouse to the west. Further to the north across the street is a facility for the Metropolitan Police Department.

IV. DESCRIPTION OF THE PROJECT AND HISTORY

The D.C. Department of Real Estate Services issued a Request for Offers in April 2011 to ground lease the Property. The Applicant was selected to lease the Property as a "state of the art" portable concrete batch plant. The purpose of the plant is to manufacture and provide concrete for the DC Water Blue Plains facility just northwest of the Property so that DC Water can construct mandated facilities pursuant to a consent decree.

On November 28, 2011, the Applicant received a building permit (No. B111984) to construct a portable concrete manufacturing facility and office trailer. Pursuant to this building permit, the Applicant constructed the facility. Subsequently, on December 22, 2011, the Applicant received a Certificate of Occupancy ("**CO**") (No. CO1200713) for the concrete manufacturing facility. The concrete manufacturing facility has been in operation since that date. On March 26, 2011, the Department of Consumer and Regulatory Affairs ("**DCRA**") issued a letter to the Applicant revoking the building permit and CO, effective 60 days after the notice, because the Applicant did not receive special exception approval from the Board pursuant to Section 802.17.[1] Nevertheless, the facility has been operating in accordance with the requirements of Section 802.17 since they were addressed at the time of the building permit application review.

The concrete plant generally operates from 7:00 am to 5:00 pm Monday through Friday and from 7:00 am to 12:00 pm on Saturday. However, its schedule can change depending on the needs of DC Water, so it must have the ability to operate 24 hours per day. Depending on demand, the plant may operate at any time on any day.

[1] This revocation is the subject of an appeal in BZA Appeal No. 18416, scheduled for a public hearing on October 16, 2012.

All traffic enters the Property from the northeast off of DC Village Lane. If any truck queuing occurs, then it all happens within the bounds of the Property; no trucks queue on the public street. All loading, unloading, turning around, and maneuvering occurs on the Property, so no trucks back onto the public street.

V. THIS APPLICATION MEETS THE REQUIREMENTS FOR A SPECIAL EXCEPTION FOR A CONCRETE MANUFACTURING FACILITY

The standard for special exception relief is that the project is in harmony with the general purpose and intent of the Zoning Regulations and Zoning Maps, and that relief can be granted without adversely affecting neighboring properties. Section 802.17 sets forth requirements that must be met so that the project is in harmony with the general purpose and intent of the Zoning Regulations and Zoning Map and will not adversely affect neighboring properties. As demonstrated below, this application satisfies these requirements.

A. No portion of the facility, including the land used by such facility, shall be located within two hundred feet (200 feet) of a residential property line or of any property that is a public park or is used for retail, office, church, school, or institutional purposes

The closest residentially zoned property is more than 1,000 feet from the edge of the Property, and no portion of the Property is within 200 feet of a public park, retail space, office, church, school, or institution.[2] In a meeting with the Applicant, the Office of Planning stated that parkland borders the Property to the southeast. However, this parkland is across the District border in Maryland; therefore, it is not regulated by or subject to the D.C. Zoning Regulations.

B. There shall be no truck access, parking, standing, or queuing to the facility from any street or block-long portion of a street for which fifty percent (50%) or more of the abutting properties on either side are used for residential purposes

As discussed above, all vehicle access to the Property is from DC Village Lane. In fact, none of the properties abutting DC Village Lane are used for residential purposes. All parking,

[2] The Job Corps training center is more than 200 feet from the Property.

standing, and queuing will be limited to the interior of the Property. No vehicles will queue along the public street. As described in greater detail in the traffic analysis in Exhibit B, the portable concrete batch plant will not adversely impact traffic or parking.

C. *No truck dumping or picking up concrete or asphalt or related materials shall park, stand, or queue for the facility along any public right-of-way. Vehicular traffic resulting from operations at the facility shall not obstruct traffic and the location of the facility shall provide access from a paved street with a road base capable of withstanding anticipated load limits*

No dumping or picking up of concrete or related materials will adversely impact any public right-of-way since all dumping, picking up, queuing, parking, and standing of trucks will occur entirely within the Property. As the traffic analysis in Exhibit B explains, the facility will not disrupt traffic in its vicinity. The facility has direct access to DC Village Lane, which is a paved street capable of withstanding the anticipated load limits and the loads of other nearby industrial loads.

D. *Any facility located within five hundred feet (500 feet) of a residence district shall not be in operation between 7:00 p.m. and 7:00 a.m. Hours of operation shall include the arrival and departure of trucks*

The concrete batch plant is located within the bounds of the Property at least 1,000 feet from the closest residentially zoned property, so its operation schedule will not disrupt residential properties.

E. *The use shall not have unacceptable adverse impacts on the character of the neighborhood due to traffic, parking, or other objectionable conditions*

The portable concrete batch plant is compatible with the surrounding industrial zoning and uses, and it will not adversely affect the character of the neighborhood due to traffic, parking or other objectionable conditions. The facility is well-removed from non-industrial properties, and all loading and traffic will all be managed on-site and away from the public rights-of-way.

F. The facility shall meet the "Standards of External Effects" pursuant to § 804

1. All uses established in a C-M District under authority of § 801.7 and any uses accessory to those uses shall be operated so as to comply with the standards of external effects in this section

The portable concrete batch plant will comply with the standards of external effects, as described below.

2. The volume of sound inherently and recurrently generated shall not exceed the standards in §§ 804.3 through 804.6 at any point along the boundaries of the zone district in which the use is located.

As described in the analysis in Exhibit C, sound levels from the concrete batch plant shall not exceed acceptable noise levels at the zone boundary lines. The facility is located more than 1000 feet from the zone district boundaries, so it shall meet or exceed the standards in Sections 804.3 – 804.6. At no point along the zone boundary lines shall the facility-generated noise exceed 55 dBA.

3. Sound levels shall be measured with a sound level meter and associated octave band filter manufactured according to standards prescribed by the American Standards Association on May 12, 1958.

As described in Exhibit C, the "old" octave frequency bands in the Zoning Regulations are an obsolete standard that can no longer be measured with modern equipment. Accordingly, the sound analysis converts these sound levels into "new" octave bands that can be measured. Therefore, sound levels were and shall be measured with a sound level meter that meets or exceeds the standards prescribed by the American Standards Association on May 12, 1958.

4. Objectionable sounds of an intermittent nature shall be controlled so as not to become a nuisance to adjacent uses

No objectionable intermittent sounds are anticipated, but the Applicant will implement controls as needed and/or required. However, as previously stated, adjacent uses are also industrial in nature, so any noise from the facility is unlikely to become a nuisance.

5. Except as provided in § 804.7, maximum sound pressure levels shall not exceed those provided in the referenced table.

As previously stated and as further explained in the noise analysis in Exhibit C, at the zone boundary line, the conservatively estimated sound level shall be no more than 55 dBA.

6. Where a C-M District abuts an M District, the standards in § 825 shall apply along the zone boundary separating the C-M and M Districts

Not applicable.

7. The emission of any smoke from any source to a density greater than that density described as No. 2 on the Ringelmann Smoke Chart shall be prohibited. The Ringelmann Smoke Chart, published by the Bureau of Mines, U.S. Department of the Interior, in Information Circular 8333, shall be adopted by reference and made a part of this title

The emission of smoke is not anticipated due to the nature of equipment to be used at this site. However, as mandated this Section, the Ringelmann Smoke Chart will be adopted for reference at the facility.

8. The emission of any odorous gases or other odorous matter or steam in quantities that are offensive or noisome at any point along the boundaries of the zone district in which the use is located shall be prohibited.

No odorous gases or matter are anticipated, but the Applicant will adopt preventative measures if necessary.

9. No noxious, toxic, or corrosive fumes or gases shall be permitted to escape or to be discharged from any use permitted in a C-M District

No such fumes are anticipated, but the Applicant will adopt preventative measures if necessary.

10. No objectionable amounts of cinders, dust, or fly-ash shall be permitted to escape or to be discharged from any use permitted in a C-M District.

Emission control equipment on the concrete batch plant is a fabric filter. Per the manufacturer's specifications, this filter has a 99.9% efficiency for controlling dust from operations at the batch plant. The Applicant filed an application for a Permit to Construct/Operate Process

equipment with DDOE Air Quality Division. Additionally, best management practices on site will include sweeping and wetting surfaces to control dust and fugitive emissions from other sources (e.g., truck tires, aggregate storage bins). Sediment and erosion control measures include swales to capture site runoff, a stormwater management pond, and a four-tiered sediment basin system that collects and allows settling of captured sediment. All three of these measures, as well as emission control equipment and best management practices, work together to prevent any objectionable amount of dust or sediment from escaping the Property.

11. No direct or reflected glare or heat from any source shall be detectable in objectionable amounts beyond the boundaries of the zone district in which the use is located.

No such glare or heat source is anticipated, but the Applicant will adopt preventative measures if necessary.

12. Every use shall be operated so that ground vibration inherently and recurrently generated is not perceptible, without instruments, at any point along any boundary of the zone district in which the use is located.

The Applicant is not aware of any point along any zone boundary line where such vibrations are perceptible, and it is highly unlikely that they would ever be perceptible given the nature of the facility and the distance from the zone boundary line. If such vibrations do become perceptible, then the Applicant will adopt necessary preventative measures.

G. The facility shall be enclosed on all sides by a fence or wall at least ten feet (10 feet) in height. The public view side and the side of the facility facing residence districts or nearby or adjacent property used as a public park or for retail, office, church, school, or institutional purposes shall be landscaped and shall have an opaque screen, fence or wall, not less than ten feet (10 feet) in height. The use of barbed wire or razor wire that is visible from residential or public space is prohibited

The facility is enclosed by a 10-foot high fence that will include an opaque covering for the portion that is within public view (i.e., from DC Village Lane). None of the facility faces a

residence district, a public park, a retail facility, an office, a church, a school, or an institution. Barbed wire and razor wire are not used at the facility.

H. Landscaping standards shall be applied as follow:

1. A landscape area of evergreen trees shall be maintained in the front, side and rear yards, and along all public rights-of-way

Landscaping includes Leyland Cyprus trees at the front and along the public right-of-way (DC Village Lane), as shown on the landscaping plan attached as Exhibit D and approved by DCRA. Exhibit D also includes an email from DCRA indicating approval of the landscape plan. The landscaping plan provides sufficient buffering because all other sides of the Property border-District-owned property used for industrial purposes; thus, there is no visual impact from the concrete plant. The trees for the landscape plan are located in planters because the ground on the Property is almost entirely covered with asphalt or gravel, which does not allow for successful cultivation of trees. This would also prevent the growing of trees in the ground at other locations on the Property.

2. The landscaping shall be maintained in healthy growing condition

The landscaping, as shown on the landscaping plan, shall be maintained in a healthy growing condition and any mandated tree which dies shall be replaced of at least the minimum required size. As described above, the trees are in planters to maximize their chance of survival on the Property.

3. The trees shall be a minimum of eight (8) feet in height when planted

The trees are eight feet (8 ft.) in height, in accordance with the plan reviewed and approved by DCRA.

I. The Special Exception will be in harmony with the general purpose and intent of the Zoning Regulations and Zoning Maps and will not tend to affect adversely, the use of neighboring property in accordance with the Zoning Regulations and Zoning Maps.

The location and operation of the concrete manufacturing plant will be in harmony with the general purpose and intent of the Zoning Regulations and Zoning Maps and will not tend to affect adversely affect the use of neighboring property. As discussed above, the facility satisfies the requirements in Section 802.17 and is well removed from non-industrial uses such that surrounding residential or other neighborhoods will not be adversely affected. Noise and traffic generated by the facility will not create adverse impacts on neighboring properties, dust will be sufficiently controlled, and appropriate fencing and landscaping will be provided. In fact, the siting and use of the Property is exactly what is contemplated for an industrial zone. Accordingly, the concrete manufacturing plant is in harmony with the general purpose and intent of the Zoning Regulations and Zoning Map.

VI. EXHIBITS

EXHIBIT A	Plat Showing Location of Facility
EXHIBIT B	Traffic Analysis
EXHIBIT C	Noise Analysis
EXHIBIT D	Approved Landscape Plan and Email Confirmation from DCRA
EXHIBIT E	Resumes of Expert Witnesses

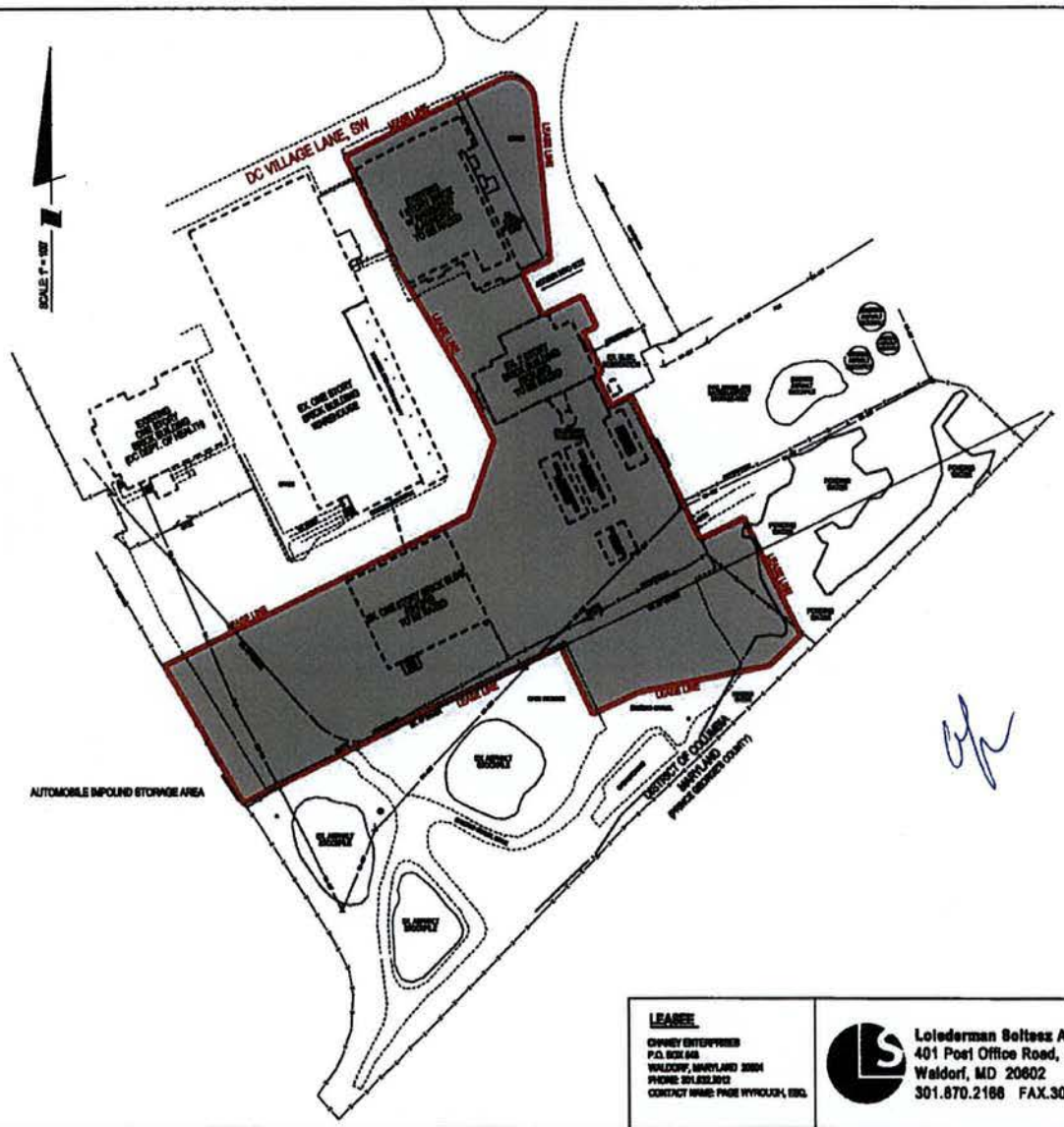
VII. CONCLUSION

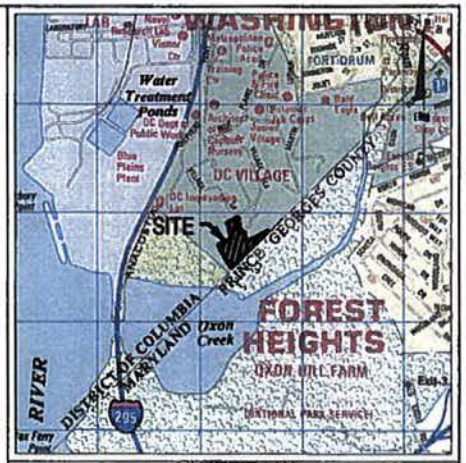
For the reasons stated above, the Applicant respectfully requests that the Board approve the requested special exception relief.

Respectfully submitted,
GOULSTON & STORRS, P.C.

Phil Feola

Cary Kadlecek





VICINITY MAP
SCALE: 1"=2000'

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LEASEE
CHANEY ENTERPRISES
P.O. BOX 849
WALDORF, MARYLAND 20604
PHONE: 301.932.3012
CONTACT NAME: PAGE WYROUGH, ESQ.

Loiederman Soltesz Associates, Inc.
401 Post Office Road, Suite 103
Waldorf, MD 20602
301.870.2166 FAX.301.870.2684

LEASE EXHIBIT A
3 DC VILLAGE LANE, SW
LEASE AREA SHOWN ON EXISTING CONDITIONS
SQUARE 6264, LOT 0801
WASHINGTON, DC.

JOB NO.	SCALE	DATE
0930-29-00	1" = 100'	AUGUST 25, 2011

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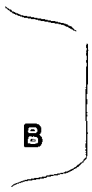
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TRAFFIC BRIEF – SPECIAL EXCEPTION
3 D.C. VILLAGE LANE, SW
CHANEY ENTERPRISES
Prepared August 16, 2012

Chaney Enterprises has filed a Special Exception request to continue to operate an existing portable concrete manufacturing facility at 3 D C. Village Lane SW. The site currently is operational and supplies concrete to the construction ongoing at the DC Water Blue Plains facility nearby. This traffic brief will discuss the traffic impacts related to the temporary use and describe the road network and land uses impacted by the delivery route from the plant to the DC Water Blue Plains facility

Exhibit 1 has been prepared to show the location of the concrete plant with relationship to the surrounding road system. Various land uses are also identified which share the use of the road system. As can be seen by this exhibit, the predominant land use is for various D C government facilities. The Metropolitan Police Department has a recruitment center and a Police Academy The Fire Department also has a Fire Training Center in the area. The D.C Transit has a Bus Facility onsite which provides for storage of buses, repair and maintenance as well. The Potomac Jobs Corp Center also has a large presence in the area There does not appear to be any residential or retail uses located in the area and thus little to no general public use of the roadway which will be used by the concrete plant trucks.

Exhibit 2 has been prepared to show the routes used by the concrete trucks to transport material from the plant to the DC Water Blue Plains facility. As can be seen, the impact is confined to the roads serving the various government uses described above. Road pavement widths vary from 28 to 22 feet in width transitioning from closed section to open section roadway back towards the concrete plant. Sidewalks are present in the closed section areas No posted speed limits were observed

Four major intersections are within the travel path. Two intersections are controlled by multi-way stop signs They are Blue Plains Drive SW and D C Village Lane SW as well as the Blue Plains Drive SW and Shepherd Parkway SW intersection The two other intersections of Shepherd Parkway SW with I-295 Off Ramp and Overlook Avenue at DC Water Blue Plains facility access are controlled by minor approach stop signs Geometric and sign/pavement markings at all intersections appear to be in compliance with standards

None of the roads that are part of the haul route appear to be utilized by the general public. With this in mind, little or no impact will be felt by anyone other than the users of the D.C. government facilities which again do not appear to be utilized by the general public. The roadways seem capable of continuing to handle the traffic associated with the Special Exception use.

As mentioned, the concrete plant has been operating since the end of December 2011. The plant was placed to provide concrete to the reconstruction efforts underway at the DC Water Blue Plains facility. The plant thus provided concrete for this specific construction project and trucks travel to and from the plant to the DC Water Blue Plains facility. The concrete activity is ongoing when construction activity at the DC Water Blue Plains facility needs product. The schedule changes daily and the time frame when trucks are on the road changes daily as well.

We reviewed the truck logs for the past several months and daily truck loads from the plant average about 70 trucks per day and the impact is throughout the day again depending on the construction activity and time of the day when material is needed This includes early morning and late at night demands, so the truck impacts are typically spread out throughout the day with no specific peak impact

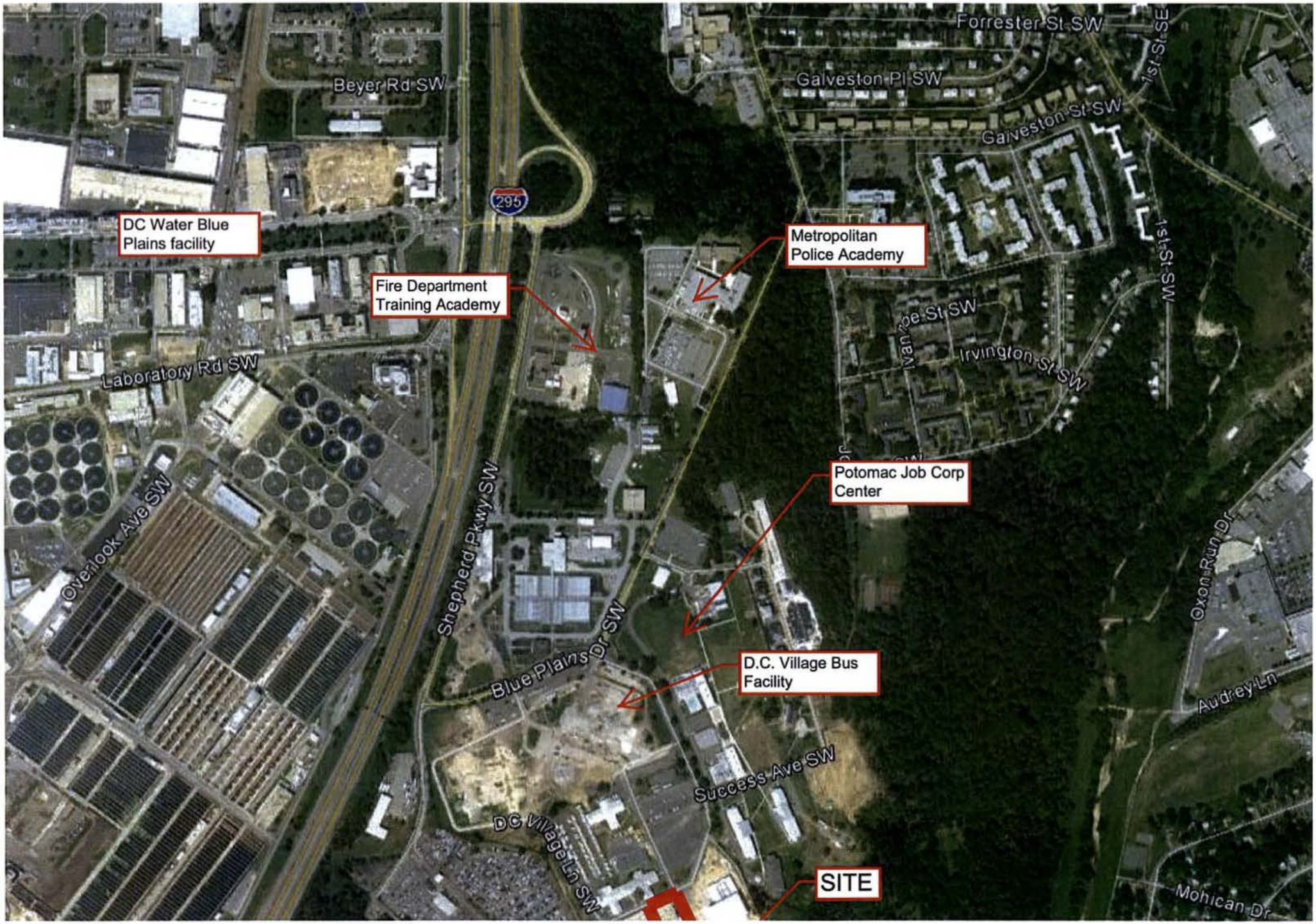
The concrete plant also requires raw materials to be delivered to the plant. These deliveries all use the more local roads described above but also the more major roads such as I-295 and I-495. No impact to the secondary road system in the area is necessary for the raw material deliveries.

Therefore, based on our review of the traffic impacts associated with the Special Exception use, we conclude the location proposed is about as good as it gets. No impact to residential community or public uses such as shopping center or school exists. All impacts are limited to roads that currently serve the more institutional uses with the D C. government facilities which house metro bus terminal, Police and Fire Training Academy and the large Potomac Job Corp complex. During our field visit, there was no noticeable traffic congestion or delay along the affected road system. We conclude the impacts normally associated with a concrete plant are minimized at this location and could be significantly higher if located at a similarly zoned property elsewhere

Sincerely,

TRAFFIC CONCEPTS, INC.

By: Kenneth W. Schmid
KSchmid@traffic-concepts com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DC Water Blue Plains facility
Metropolitan Police Academy
1st St SW
Fire Department Training Academy
Irvington St SW
Laboratory Rd SW
Potomac Job Corp Center
Overlook Ave SW
Shepherd Pkwy SW
Oxon Run Dr
D.C. Village Bus Facility
Blue Plains Dr SW
Audrey Ln
Success Ave SW
DC Village Ln SW
SITE
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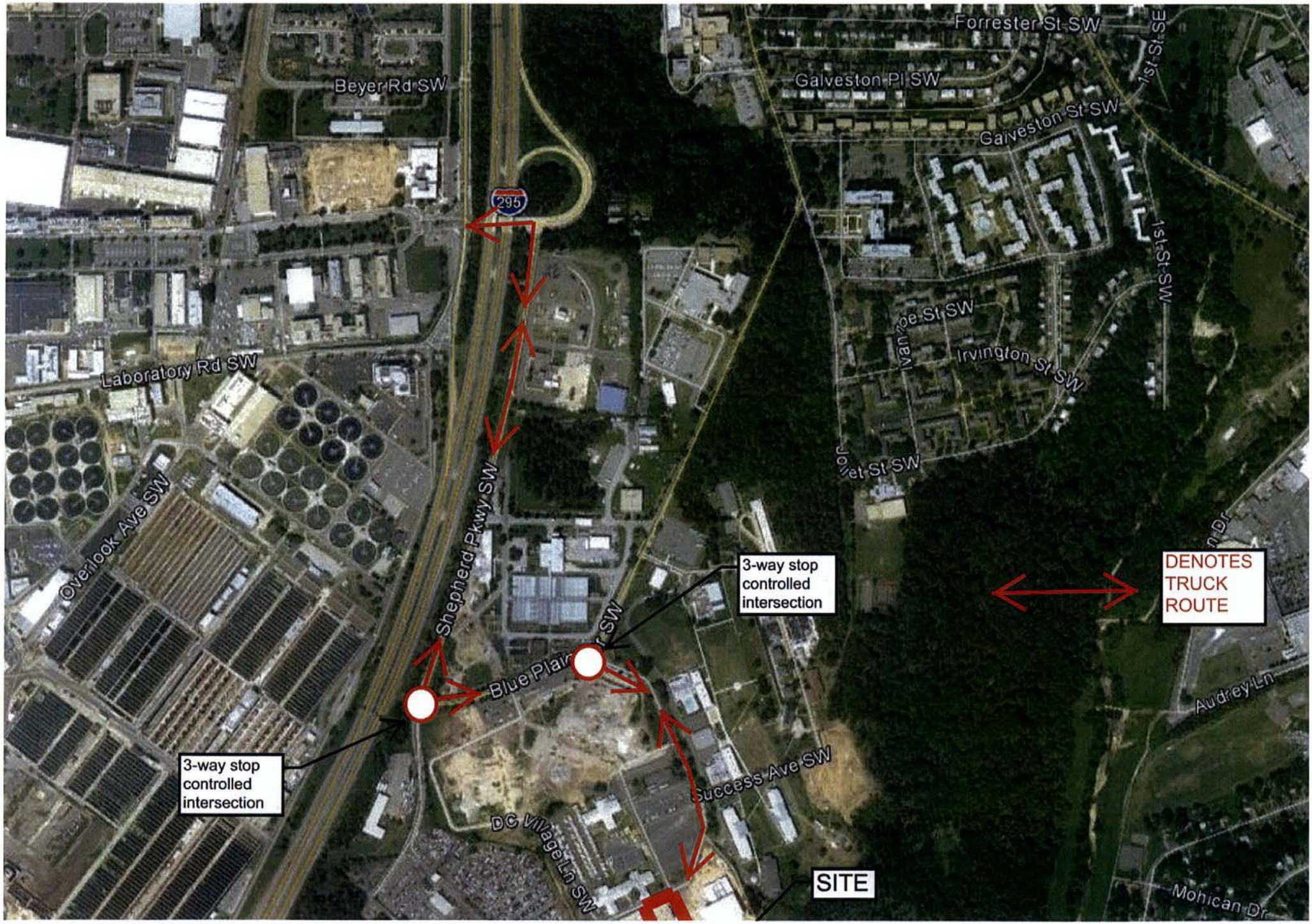
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Laboratory Rd SW
Joliet St SW
Overlook Ave SW
Shepherd Pkwy SW
3-way stop controlled intersection
DENOTES TRUCK ROUTE
Blue Plain
Audrey Ln
3-way stop controlled intersection
Success Ave SW
DC Village Ln SW
SITE
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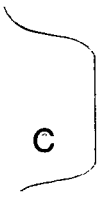
C

MEMO

Date	August 31, 2012
From	Richard J Peppin, President, Marek Kovacik, Applications Engineer
To	Bonnie Marie Watson, Chaney Enterprises By E-mail bwatson@ChaneyEnterprises com
CC	Cary R Kadlecek, goulston&storrs By E-mail CKadlecek@goulstonstorrs com
Subject	DC-Village

SUMMARY

We analyzed the noise immission at the proposed site called "DC-Village" according to requirements found in "804 Standards of External Effects " The results show that sound levels comply with maximum levels along the zone boundaries

DISCUSSION

The 804 6 standard lists maximum sound pressure levels corresponding to eight different octave frequency bands These "bands" are based on standards from 1958 and have since been obsoleted They cannot be measured with modern instrumentation However there are equations that allow us to approximately convert energy in the "old" octave bands to the current "new" octave bands Table 1shows the conversion results

OLD (from 804 6)

OLD octave band (cycles per second)	Limits- Maximum Sound pressure Level
0-74	72
75-149	67
150-299	59
300-599	52
600-1,199	46
1,200-2,399	40
2,400-4,800	34
Above 4,800	32

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www scantekinc com info@scantekinc com

NEW
Table 1 Conversion results from OLD to NEW octave bands

Mid-band Center Frequency (hertz)	Limit
63	71
125	65
250	57
500	51
1000	45
2000	39
4000	34
8000	32

We assumed that the worst case to be evaluated was if the measured or predicted data met each of the limits in each band Based on that, we calculated an A-weighted maximum level from the eight converted octave band levels This A-weighted level was a single number value assumed to be the maximum sound pressure level permissible at the zone boundary surrounding the proposed site This value was calculated to the nearest integer to be 55 dBA This is, incidentally, the limits found in the Noise Code (Chapter 31B) of Montgomery County and the nighttime limit for Title 26 of CoMar

The site was modeled using CadnaA prediction software The algorithms used in the software follow the International Standard, ISO 9613-2 "Attenuation of Sound During Propagation Outdoors" which will be adopted as a American National Standard draft ANSI S12 62

The major noise sources were concrete mix trucks, revving engines at high speed during wash out, and a loader These sources were measured at another Chaney site and the A-weighted sound power levels of each were calculated to be as shown in Table 2

Table 2 Sound power of sources

Equipment	A-weighted Sound Power level re 10-12W
Loader	122
Mixer	113

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Figure 1shows the modeled site, with four concrete mixer trucks and one loader. All equipment is operating simultaneously at their loudest noise output.

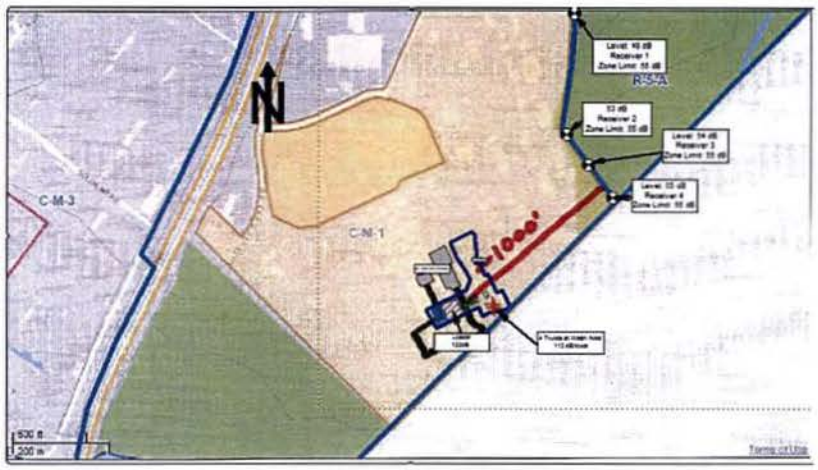

Figure 1 overview of Site Plan

Figure 2 shows a closer view of site.

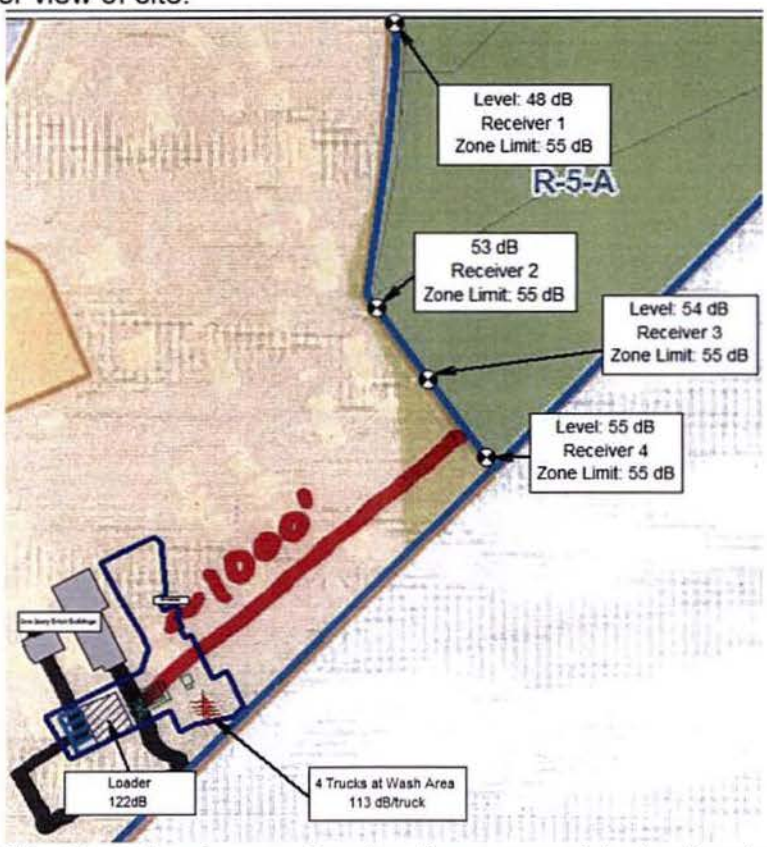

Figure 2 A zoom-in of Site Plan showing receiver locations, associated estimated sound levels, and limit allowed.

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www.scantekinc.com info@scantekinc.com

Figure 3 shows the locations assumed of the four mixer trucks and the area of operation of the loader.

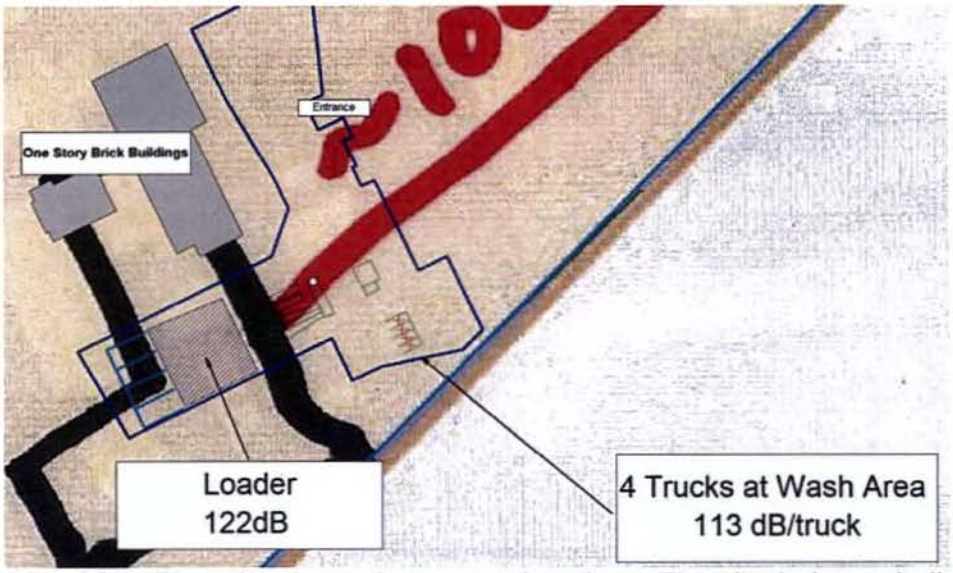

Figure 3 A zoom in of Site Plan showing noise source locations. The shaded area indicates approximate range of Loader movement.

The expected noise levels of the five sources are calculated at four receiver locations along the zone boundary line located north-west of the site. (See Figure 2)

The results of the calculation are shown above and listed inTable 3, below.

Table 3 Sound levels at zone boundary, closest to site.

Location	Zone Boundary Limit (dBA)	Calculated Level (dBA)
Receiver 1	55	48
Receiver 2	55	53
Receiver 3	55	54
Receiver 4	55	55

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www.scantekinc.com info@scantekinc.com

CONCLUSIONS

Sound levels are at or below maximum limits per 804 6 at all locations on the zone boundary

Cordially,

Rich

Rich (signed)

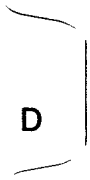
Richard J Peppin, P E
Fellow, ASA, INCE, and ASME
Board Certified, Noise Control Engineering, INCE

and

Marek (signed)

Marek Kovacik

Scantek, Inc. 6430C Dobbin Rd, Columbia, MD 21045 410 290 7726-phone, 9167-fax
www scantekinc com info@scantekinc com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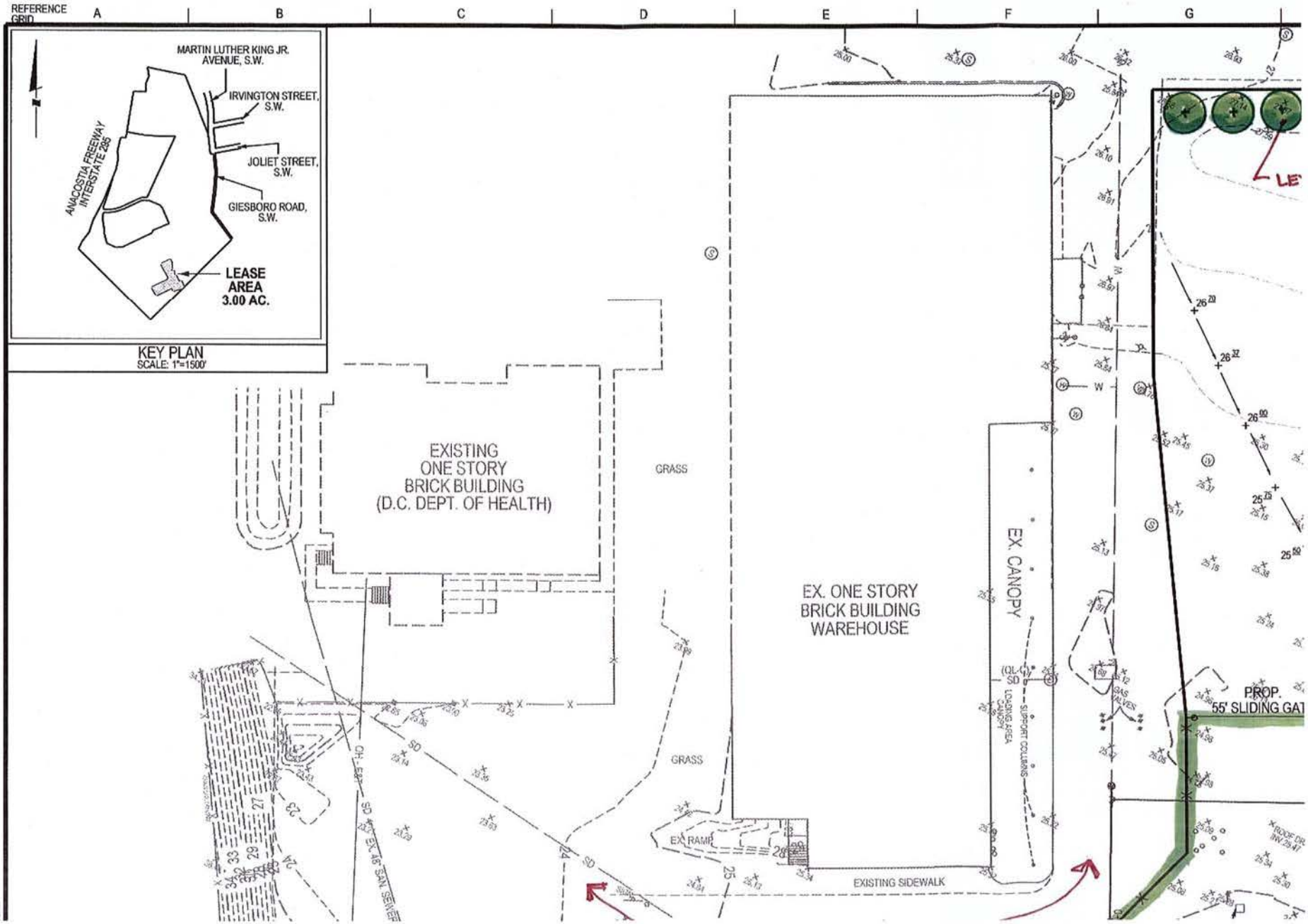
REFERENCE GRID
A
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MARTIN LUTHER KING JR. AVENUE, S.W.
IRVINGTON STREET, S.W.
JOLIET STREET, S.W.
GIESBORO ROAD, S.W.
ANACOSTIA FREEWAY INTERSTATE 295
LEASE AREA 3.00 AC.
KEY PLAN
SCALE: 1"=1500'
EXISTING ONE STORY BRICK BUILDING (D.C. DEPT. OF HEALTH)
GRASS
EX. ONE STORY BRICK BUILDING WAREHOUSE
EX. CANOPY
LOADING AREA CANOPY
SUPPORT COLUMNS
GAS VALVES
PROP. 55' SLIDING GAT
EX. RAMP
EXISTING SIDEWALK
CH. 6" SD
EX. 48" SAN. SEWER
SD
W
anges and / or alterations were not made by others.
ans.

From: Bellow, Justin (DCRA)
To: Ed Carroll, P.E.; Garnett, Tay (DCRA)
Cc: Wyrough, Page; Watson, Bonnie
Subject: RE: DC Village Concrete Batch Plant - Job# B1111984
Date: Monday, November 14, 2011 3:50:35 PM

Mr. Carroll,

I have determined that the landscaping indicated in the submitted drawing is acceptable in response to the requirements. Please update the plans to reflect the landscaping.

Best regards,

Justin Bellow
Government of the District of Columbia
Office of the Zoning Administrator | Department of Consumer and Regulatory Affairs
1100 4th St SW, 3rd Floor | Washington, DC 20024
W 202.442.4576 | F 202.442.4871 | justin.bellow@dc.gov

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From: Ed Carroll, P.E. [mailto:ecarroll@lsassociates.net]
Sent: Thursday, November 10, 2011 3:29 PM
To: Garnett, Tay (DCRA)
Cc: Bellow, Justin (DCRA); Page Wyrough; bwatson@chaneyenterprises.com; Vollin, David (DCRA)
Subject: RE: DC Village Concrete Batch Plant - Job# B1111984

Tay:

Thank you so much for your assistance. I will be in the office until 5:00pm. If anyone has any questions, please contact me.

Thanks again!

Ed Carroll, P.E.
Vice President and Director
of Environmental Engineering

Loiederman Soltesz Associates, Inc.
Engineering | Planning | Surveying | Environmental Sciences
401 Post Office Road, Suite 103 | Waldorf, MD 20602
office: 301.870 2166 | fax 301 870 2884
www.LSAssociates.net

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Sent: Thursday, November 10, 2011 3:15 PM
To: Garnett, Tay (DCRA)
Cc: Bellow, Justin (DCRA); Page Wyrough; bwatson@chaneyenterprises.com
Subject: FW: DC Village Concrete Batch Plant - Job# B1111984
Importance: High

Good afternoon Tay:

Thanks again for meeting with Ms. Watson, Mr. Bill Maiden, and myself regarding this project. We have received razing permits and are progressing on the site at this time - Thanks. We are "very" close on our building permit for the concrete batch plant at 3 DC Village. I am trying to respond to Mr. Justin Bellow regarding a landscaping/fencing comment, but it is my understanding that Mr. Bellow is working the front desk the last few days and today and may not be able to respond.

As the issue of landscaping/fencing may be subjective in interpretation, we are trying to avoid going through another formal review cycle with the Office of the Zoning Administrator. We believe that we have a solution in addressing Mr. Bellow's comment, but I wanted to his opinion on our proposed mitigation (screening/landscaping) to address his comment. **I have attached a .pdf sketch for his cursory review**. If acceptable to Mr. Bellow, we can quickly and formally modify the plan, and resubmit to his department. My fear is that if we submit a plan that doesn't address Mr. Bellow's concern correctly, we may lose another week of time.

I kindly ask if you could assist us with having Mr. Bellow review our sketch and provide a "ruling" on our proposed landscaping/fencing to save valuable time on this project for WASA's benefit. If our proposed sketch is acceptable to his department, we will revise the plan quickly and resubmit. My response to Mr. Bellow is below, if you would like to review.

I hope that you understand the urgency of our situation.

Again Tay, I thank you for all your efforts on this project. If you should have any questions, please do not hesitate to contact me.

Thanks again.

Ed Carroll, P.E.
Vice President and Director
of Environmental Engineering

Loiederman Soltesz Associates, Inc.
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401 Post Office Road, Suite 103 | Waldorf, MD 20602
office: 301 870.2166 | fax 301.870 2884
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From: Ed Carroll, P.E.
Sent: Thursday, November 10, 2011 12:59 PM

E

Professional Resume of

Kenneth W. Schmid
11022 Pfeffers Road
Kingsville, MD 21087

EXPERIENCE

January 1993 – Present

Traffic Concepts, Inc
325 Gambrills Road, Suite E
Gambrills, MD 21054

Owner, Vice-President

Provides traffic engineering consultant services to the public and private sectors including.

Expert testimony before the County Zoning Officer and Board of Appeals for Special Exception and Rezoning cases. Development of Feasibility Analysis including access alternatives and the assessment of the impact of pertinent Adequate Public Facilities legislation of local governments on potential development sites Development of Traffic Impact Studies including critical lane, highway capacity, and signal warrant analysis; recommendations of road improvements necessary to meet various Adequate Public Facility criteria and leading negotiations with government agencies to secure waivers for Adequate Public Facilities legislation. Design and preparation of traffic signal, maintenance of traffic, pavement marking, and road improvement concept plans Preparation of technical and price proposals

December 1989 – January 1993

Ronald W. Johnson Associates, Inc.
2661 Riva Road, Suite 420
Annapolis, MD 21401

Chief – Traffic Engineering Division

Started and developed the traffic engineering division at this consulting firm Duties included· Directing the activities of the Traffic Engineering Division. Providing expert testimony at over 30 Special Exception, Rezoning, and Appeal cases Development of more than 130 feasibility and Traffic Impact Studies Design and preparation of traffic signal designs, maintenance of traffic, and road improvement concept plans

December 1986 – November 1989

Anne Arundel County
Department of Public Works
Traffic Engineering Division
Annapolis, MD 21401

Traffic Engineer III and IV

Supervised the daily operations of the Development and Operation Section of the Traffic Engineering Division This included full responsibility for reviewing and recommending approval or denial of Rezoning and Special Exception cases, subdivisions, and building permit applications. Supervised the activity of three engineers, seven traffic analysts. Duties included traffic control design and implementation throughout the County, for example traffic control design for the Baltimore & Annapolis Hiker/Biker trail

July 1984 – December 1986

Maryland State Highway Administration
District #5 Office
Annapolis, MD 21401

Traffic Engineer III

Duties included traffic signal design, construction inspection, and conducting various traffic engineering studies in order to make recommendations to the District Traffic Engineers.

May 1981 – July 1984

Maryland State Highway Administration
Office of Traffic and Safety
Hanover, MD 21076

Traffic Engineer I and II

Duties included developing signal design and signalization plans, reviewing signal design plans submitted by consultants, and developing equipment and construction design specifications The development of traffic signal and traffic signal system timing often required the consideration of pedestrians and bicycle routes throughout the major highway system

EDUCATION

Baltimore Polytechnic Institute, 1976 graduate

Essex Community College, 1976 – 1978

University of Maryland, 1981 graduate
Bachelor of Science – Civil Engineering

Various Continuing Education courses in the traffic engineering and highway design field.

PUBLICATIONS

Developed the Signal Design Manual currently in use by the Maryland State Highway Administration Office of Traffic and Safety

AFFILIATIONS

Institute of Transportation Engineers, 1985 – Present

National Federation of Independent Businesses, 1993 – Present

Accepted as an expert in the traffic engineering field in the following jurisdictions:

Baltimore City
City of Annapolis
City of Elkton
City of Frederick
City of Salisbury
Town of Bel Air
Town of Bowie
Town of Easton
Anne Arundel County
Baltimore County
Calvert County
Caroline County
Carroll County
Cecil County
Charles County
Frederick County
Harford County
Howard County
Kent County
Prince George's County
Queen Anne's County
St. Mary's
Talbot County

REFERENCES:

Mr. Harry Blumenthal
Blumenthal, Delavan & Williams, P.A.
170 Jennifer Road, Suite 240
P.O. Box 868
Annapolis, MD 21401-6484
(410) 573-2900

Mr. Alan Hyatt
Hyatt & Weber, P A.
200 Westgate Circle, Suite 500
Annapolis, MD 21401
(410) 260-6570

Mr Thomas Hicks
Maryland State Highway Adm
Office of Traffic & Safety
7491 Connelley Drive
Hanover, MD 21076
410-787-5800

Mr Steven D. Foster, Chief
Maryland State Highway Adm.
Access Management Division
707 N. Calvert Street
Baltimore, MD 21202
410-545-5600

Richard J. Peppin, P.E., P.Eng.

HOME 5012 Macon Road, Rockville, MD 20852, 301-910-2813 (cell), PeppinR@asme org
OFFICE Scantek, Inc 6430C Dobbin Rd, Columbia, MD 21045, 410-290-7726 (ph), -9167 (fx) PeppinR@ScantekInc com

ACADEMIC BACKGROUND

City College of New York, B E Mechanical Engineering, 1965
W VA University, M S Theoretical & Applied Mechanics, 1966
Rensselaer Polytechnic Inst , M S Mechanical Engineering, 1969
McMaster University, Ph D Candidate, Mechanical Engineering, 1972

LICENSES AND REGISTRATIONS

Licensed Professional Engineer NY(51519), NJ (20911), MD (12869), VA (036156), Ontario
Board Certified in Noise Control Engineering Institute of Noise Control Engineering
Certified Quality Systems Auditor ISO 9000, Registrar Accreditation Board (1995-2000)
Approved Auditor Calibration Cooperative, PRI, Society of Automotive Engineers

PROFESSIONAL EXPERIENCE

Business

Scantek Inc (1985-95, 1998-), President
Larson Davis Laboratories, Inc (1995-98), Eastern Regional Manager
Industrial Acoustics Co (1995), Vice President, Market Development
Brüel and Kjær Instruments (1982-85), Head, Acoustics and Environmental Marketing Groups
Pratt & Whitney Aircraft (1967-69), Sr Structural Engineer
Bendix Corp Eclipse Pioneer Div (1965-66), Engineer

Associations

Institute of Noise Control Engineering (1997-) Manager, Expositions
Institute of Noise Control Engineering (2002-) Manager, Advertising, "Noise News International"
Noise Control Engineering Journal (2004-5, 2008-) Associate Editor, Book Reviews
International Journal of Acoustics and Vibrations (2005-8), Associate Editor, Book Reviews
Canadian Acoustical Association (2005-2011) Director

Government

State of Maryland, MD Department of Environment, (2004-2007), Member, Environmental Noise Advisory Council
National Park Service (1981-82), Acting Chief, Division of Safety Management
Occupational Safety and Health Administration (1979-80), Sr Scientist and Safety Engineer
Montgomery County Government (1976-79), County Noise Control Engineer

Education

Pennsylvania State University (1987-99), Montgomery College (1989-90),McMaster University (1969-72), Instructor

Consulting

Straughan Environmental Services, Principle Acoustical Engineer (2000-1)
Air Conditioning & Refrigeration Institute (1996-97), Consultant in Acoustics
National Institute for Standards and Technology (1982-), Laboratory Assessor
American Association for Laboratory Accreditation, Laboratory Assessor (1992-4), Member, Accreditation Council (1994-6)
Performance Review Institute (1994-), Assessor
Robson Lapina (1985-95), Forensic Expert- Acoustics
Robson Forensic Assoc (2007-9)
State of Maryland (1983-), Noise Control Engineer
Richard J Peppin, P E (1975-), Principal Consultant
White Mountain Research (1975-85), Principal Consultant
Jack Faucett Associates (1977-79), Sr Consultant
Science Applications (1975-76), Manager, Community and Industrial Noise Programs
Kodaras Acoustical Laboratories (1973-75), Sr Acoustical Consultant
Engineering Science, Inc (1973), Consultant
Donley Miller & Nowikas (1972-73), Consultant

Expert Witness (partial list)

•1986 March, Montgomery County Zoning Hearing Examiner, Office of Zoning and Administrative Hearings, Boyd's Citizens Association v Rockville Crushed Stone, Montgomery County Board of Appeals, Chen-Walsh and Teckler, William Chen, Attorney•1996 May 31 Robert J Califano v Montgomery Ward, Schenectady, NY Delaware, Gordon, Pasquariello, Weiskopf & Harding, Charles Harding, Attorney, Hearing Conservation•2000 May 31, Buck Hill Falls Co v Clifford Press and Elizabeth Sawyer, Stroudsburg PA, Judge Worthington, G Westervelt, Attorney•Community Noise qualified in the court of common pleas of Monroe county Pennsylvania, case no 6480 civil 1999•2000 November 14, U S District Ct, Wash DC, Harris v National Rail Passenger Association (AMTRAK), Judge Emmitt Sullivan, Vincent McKnight, Attorney•2000 September 27 and November 2, Zoning Hearing Examiner for Prince George's County Hearing Examiner Joyce Nichols, Larry Taub, Attorney•2001 May 8 Anne Arundel County Zoning Hearing Examiner, Les Jenkins Family Fun Park v Anne Arundel County, Stephen M Legendre, Hearing Examiner, F Delavan, Attorney•2003 April 9 Montgomery County Board of Appeals, Petition of Wendy Walker•2003 May 5 Luzerne County, PA Criminal Court, Commonwealth v Stubbs, Peter Paul Olszewski, Jr , Judge, A. Flora, Attorney•2004 March 24 Baltimore County, MD, Board of Appeals, Lawrence Wescott Chair, Robert Hoffman, Attorney•2004 April 14 Baltimore County, MD, Board of Appeals, Lawrence Wescott Chair, Scott Breeze, Attorney•2006 March 28 Anne Arundel County Md Board of Appeals, Cunningham Sand and Gravel, Special Exemption, Anthony V Lamartina, Chair, Anthony A Gorski Attorney• 2006 July 11 East Hempfield (PA) Board of Supervisors, Lancaster Helicopter v R Szarko, Niel Kinsey, Chair, Paula Leicht, Attorney•2011 Sept 15, Prince Georges County Planning Board, Elizabeth Hewett, Chairperson, Edward Gibbs Attorney•2011 Sept 28- Oct 7, Prince Georges County Zoning, Hearing Examiner Joyce B Nichols, Edward Gibbs, Attorney

TECHNICAL AFFILIATIONS

Transportation Research Board of the National Academies
Transit Cooperative Research Program Project Panel D-12 Member, (2005-)

American National Standards Institute
Chair, Acoustical and Vibrations Standards Board (1996-8)
Acoustical Standards Management Board (1979-81)
Committee Z-137, Hearing Protection (1979-82)
Committee Z-89, Head Protection (1979-81)
Safety and Health Standards Management Board (1980-1)

ASTM (previously American Society for Testing and Materials), Member (1972-)
Committee E-33 Environmental Acoustics
Task group Chairperson, Community Noise, Plumbing Noise, Anechoic Rooms, Impedance Tubes, Surface Properties, Loudspeaker Characteristics
Subcommittee Chairperson, Future Meetings, Community Noise, Applications of Acoustical Materials
Subcommittee Vice Chairperson, Research, Mechanical & Electrical Nose, Community Noise, International Standards
Subcommittee Secretary, Research, Community Noise, International Standards, Definitions
Other Committees, Committee F-15, Consumer Product Safety, Committee E-34, Occupational Safety and Health, Committee F-13, Safety and Traction, Committee E-7 Non Destructive Testing, Committee F-11, Vacuum Cleaners, Committee D-10, Packaging

American Society of Mechanical Engineers, Fellow (1995-), Member (1972-)
Chaired two Divisions, received two Society awards, member of several standard writing groups, member Peer Fellow Committee, ASME Representative to AAAS Committee on Scientific Freedom & Responsibility, Professional Society Ethics Group (1992-2000), National Nominating Committee Member, Board of Directors, DC Region Performance Test Code -36 "Measuring Industrial Sound" Member, (1992-)

American Society of Heating, Refrigeration, and Air Conditioning Engineers, Member (1983-) TC-2 6, Sound & Vibration, Chair (1998-),Vice-Chair (1995-98), Wrote and evaluated work-statements for ASHRAE Research, teach four seminars per year, Principal Investigator research project on HVAC noise estimation (1993-6), Chair, Standards Committee (1994-), ASHRAE representative to ANSI S12 (2004-), Editor Applications handbook Chapter (2004-) ASHRAE Professional Development Seminars (Atlanta, Chicago, Nov, 1992, McLean, Dec, 1993)

Acoustical Society of America, Fellow (1994-), Member (1972-93)
Chair, Technical Committee on Noise (1997-2000)
Chair, American National Standards Committee S2 on Shock and Vibration (2000-2006)
Expert American National Standards Committee S12 on Noise Vibration (2000-)
Vice-Chair, American National Standards Committee S1 on Acoustics (2006-)
Chair, Working Groups on Sound Power, Room Criteria, FFT Analyzers, Windscreens, Member, Technical Committees on Noise and on Architectural Acoustics, Member NC Chapter, Chair, Exhibits Committee (1988-90, 1994-), Vice-president DC Chapter (1992-3), President, DC Chapter (1993-4), Member, Archives & History Committee (1994-), TC Noise representative on ASACOS (2007-)

Institute of Noise Control Engineering, Fellow (2009-), Member, Board Certified (1973-)
President (1997-8), Exhibits Manager (1996-), President Elect (1996-7), Officer (Vice-president Membership, Vice-president External Affairs), Director, Editor, paper reviewer (1975-), Associate Editor- Book reviews (2008-), Vice-president Board Accreditation (2012-)
International Organization for Standardization (ISO), (1995-) Designated Expert to TC/43/SC1 wg44, Noise Control by Silencers and ISO/TC43/SC1/WG28, Sound Power
Transportation Research Board Committee on Transportation-Related Noise and Vibration, ADC40 (2012-)
Institute of Environmental Sciences, Sr Member (1974-95)
Vice-president, National Capitol Chapter
Canadian Acoustical Association, Member (1985-), Director (2005-2011), Advertising Manager (2009-2012)
Canadian Standards Association Acoustics and Noise Control Technical Committee (Z107) (2005-08)
Computer & Business Equipment Manufacturer's Assoc , Member ESC-6 (1983-92)
American Society for Quality Control, Member (1994-6)
Association of Professional Engineers of Ontario, Member (1970-80, 86-)
Society of Automotive Engineers, Member (1990-)
Committee A-21 on Aircraft Noise (1987-), Paper reviewer (1987-)
National Science Foundation, Proposal Reviewer (1981-83)
Vibration Institute, Member (1985-)
Listed in "Who's Who in Engineering," "Who's Who in Technology Today," "International Who's Who in Engineering," "American Men and Women in Science," "Who's Who in Society," "Who's Who in the East," "Who's Who in Science and Engineering"

Awards

- ASME Centennial Medal, 1980
- ASME Dedicated Service Award, 1990
- ASTM Certificate of Appreciation,1998
- ASTM Wallace Waterfall Award,1993
- ASA Fellow, 1994
- ASME Fellow,1995
- INCE Fellow, 2009

Editorial

- Shock and Vibration Digest, Board of Editors (1988-1995(est))
- Airport Noise Report, Editorial Advisory Board (1988-95)
- Noise/News, Editor for ASME
- Sound and Vibration, Contributing Editor (1995-2008)
- Noise Control Engineering Journal, Associate Editor (2004-2005, 2008-)

COMMUNITY ACTIVITIES

Community Involvement and Environment
Citizens Against Noise (1978-80)
Washington Suburban Sanitary Commission, Committee on the Environment (1995-97)
Washington Ethical Society, Board of Trustees (1989-91)
Verona Environmental Commission (1972-75)
Metropolitan Washington Council of Governments, Member Noise Technical Committee (1976-79)
Montclair Society of Engineers (1972-77) Washington Society of Engineers (1980-85)
Montgomery County Noise Control Advisory Board, (1980-89, 1999-), Member (2005-10), Chairperson (1984-6, 2004-2009), Vice Chairperson (1983-4), Secretary (1977-80)
National Association of Noise Control Officials, Member (1978-80)
National Science Foundation, Proposal Reviewer (1981-82)
Animal Rights
Exhibition Manager, Animal Rights 2000 (2000), Farm Animal Reform Movement (FARM),
Volunteer Fund for Animals, CARE, Poplar Spring Animal Sanctuary, Compassion over Killing, Letters to the Editor (Washington Post (5/06/00), NY Times Magazine (8/20/00), Forbes (11/20/00), The Guardian (08/02/01)
Co-founder and Treasurer, Compassion for Animals, Inc , a 501c(3) non-profit (2008-2009), Acting Treasurer (2009-)
Youth Activities
American Youth Hostels, Board of Directors (1966-69)
Big Brothers (1970-2)
Feminist Activities
New Directions for Women, Book Reviewer and Author (1972-75)

National Women's Symphony, Officer & Member, Board of Directors (1989-93)
OSHA Federal Women's Program Advisory Committee, Member (1980-81)

PROFESSIONAL ACTIVITIES

Books- Edited two books for ASME and for ASTM, coauthored book for NIST
Articles- Over 45 articles and papers published by. AIAA, INCE, NIOSH, Mechanical Engineering, Shock & Vibration Digest, Airport Noise Report, and others
Papers- Over 85 papers presented at sessions sponsored by. AMCA, ASHRAE, IES, INCE, ASA, EPA, HCA, AES, AIHA, among others
Book Reviews- Over 100 reviews in Chemical Engineering, J. Environmental Sciences, Shock & Vibration Digest, J Acoustical Society of America, Noise Control Engineering J , and Library Journal
Conference Chairperson and Organizer- Environmental Noise Symposium for ASTM
Session Chairperson and Organizer- Over 32 sessions chaired and organized for ASME, INCE, ASA, SAE, IMAC

SPECIFICS ON EXPERIENCE

Scantek Inc 1985-1995, 1998- present
As President, responsible for start-up and operation of subsidiary of Norwegian instrumentation firm Responsible first for the USA, eventually expanding to Canada and South America This involved areas of purchasing, recruitment, hiring, negotiating contracts with representatives, GSA schedule procurement experience, advertising, marketing, seminars, instrumentation demonstrations, technical support, developing product releases, trade shows, and setting up a service center Developed policies, wrote contracts, obtained government contracts Negotiated exclusive contract with RION Trading, Ltd , a Japanese instrumentation manufacturer, Castle Group Instruments, a UK instrument manufacturer, RTA Technology, an Australian software/hardware developer, BSWA, a Chinese Microphone manufacturer, and DataKustik, a German software developer developed calibration laboratory to be comes accredited by NIST/NVLAP for acoustical and vibration measuring and analyzing instrumentation Company sales in 1985 less than $20,000, in 2008, over $2 3 M
Larson Davis Laboratories, Inc 1995- 1998
As Eastern Regional Manager, responsible for technical support of approximately 20 representatives in the Eastern USA, Canada, Israel, and Puerto Rico Represent company on all acoustical and vibration standards writing bodies Propose marketing strategies for worldwide sales efforts
Industrial Acoustics Co 1995
As Vice-President, Market Development, responsible for corporate marketing, market development, technical support for the architectural, special products, medical, industrial, and air-conditioning groups Main target audiences were acoustical consultants, musical studios and practice rooms, correctional facilities, and test-room users
Bruel and Kjær Instruments 1982-1985
As Head, Acoustics and Environmental Marketing Groups in Corporate office, responsible for all analyzers and meters dealing with acoustics As Applications Engineer, became knowledgeable in all aspects of theory and applications of acoustical instrumentation
Taught over 100 seminars to audiences ranging from 10 to 80 in the areas of acoustic intensity, noise control, vibrations, acoustics, and machinery monitoring
National Park Service 1980-1981
As Acting Chief, Division of Safety Management, responsible for a professional office staff of six and a professional field staff of about 15 managers/specialists, was handling entire National Park system Taught safety seminars, developed safety management procedures, and handled budget of several million dollars
Occupational Safety and Health Administration 1979-1980
As Sr Scientist, responsible for all engineering noise control provisions of new amendment to 29 CFR 1910 95
Pennsylvania State University 1987- 2001
Montgomery College 1989-1990
McMaster University 1969-1972
Taught seminars and classes in vibrations, mathematical elasticity, machine design, dynamics and statics, stress analysis continuum mechanics
Taught the following undergraduate courses
Statics, Dynamics, Graphics, Vibrations, Machine Design, Stress Analysis
Taught the following graduate courses
Elasticity, Continuum Mechanics, Vibrations
Taught the following seminars
Basic Acoustics, Intermediate Acoustics, Architectural Acoustics, Noise Control, Calibration of Microphones, Acoustic Intensity, Machine Diagnostics and, Health Monitoring, Vibrations, Instrumentation, Safety and Health Management, HVAC Noise and Vibration Control
Montgomery County Government 1976-1977

As County Noise Control Engineer, had full administrative and technical responsibility for suburban/urban/rural environment Developed abatement plans, designed noise control for industrial spaces, made community noise surveys, developed noise codes, and helped with architectural design in acoustics

Consulting Experience

Scantek, Inc 1985- present
National Institute for Standards and Technology 1982- present
American Association for Laboratory Accreditation 1992- present
Richard J Peppin, P E 1975-present
White Mountain Research 1975-present
Jack Faucett Associates 1977-1979
Science Applications 1975-1976
Kodaras Acoustical Laboratories 1973-1975
Engineering Science 1973
Donley Miller & Nowikas 1972-1973

Acoustical consultant in the areas of industrial noise control, community noise measurement and analysis, building and auditorium acoustics, transportation noise, and noise measurement techniques including Acoustic Intensity List of clients include National Institute of Standards and Technology, Battelle Memorial Institute, State of Maryland, Town of Cedar Grove, City of Falls Church, Buffalo Forge, Burgess Manning, BASF, Industrial Acoustics Co , American Institute of Architects, Air Conditioning & Refrigeration Institute, Homasote, and others representing heavy industry, architects, attorneys, schools, communities, and commercial firms

One of four NIST laboratory assessors in Acoustics Made more than 100 assessments at acoustical labs throughout the world

Pratt & Whitney Aircraft 1967-1969

As Sr Structural Engineer, developed many major finite element computational elements for structures (St. Venant torsion, plane stress/strain) and heat transfer programs in the early stages of the technique

Developed theory for squeeze film damper bearings now used in P&WA aircraft gas turbine engines.

Bendix Corp Eclipse Pioneer Div 1965-1966

As Junior Engineer, developed finite difference computer program for the heat transfer analysis of the stable platform guidance system of the Apollo spacecraft Both steady state and transient theoretical analysis using forced convection, conduction, and radiation

SYMPOSIUM CHAIRPERSON AND ORGANIZER

"The State of the Art in Community Noise Criteria, Measurement and Description," ASTM Symposium, Kansas City, May 1978

SESSION CHAIR, CO-CHAIR, OR ORGANIZER

- "Transportation Systems Safety," ASME Winter Annual Meeting, Atlanta, 1977
- "Industrial Noise," ASME Winter Annual Meeting, Houston, 1975
- "Technology and Society," ASME Winter Annual Meeting, Houston, 1975
- "Nuclear Safety Impact," ASME Winter Annual Meeting, Atlanta, 1977
- "Designing Noise out of Products," ASME Winter Annual Meeting, Atlanta, 1977
- "Industrial Noise," ASME Winter Annual Meeting, Atlanta, 1977
- "Industrial Noise," Inter-Noise'78, San Francisco, 1978
- "Nuclear Maintenance Safety and Control," ASME Winter Annual Meeting, San Francisco, 1978
- "Transportation Noise," ASME Winter Annual Meeting, San Francisco, 1978
- "Industrial Noise Control," ASME Winter Annual Meeting, New York, 1979
- "Health and Safety in the Textile Industry," ASME Textile Engineering Conference, Raleigh, 1980
- "Instrument Calibration and Certification," Institute of Noise Control Engineering, InterNoise'80, Miami, 1980
- "Analytical Methods in Occupational Safety and Health," ASME Winter Annual Meeting, Washington, 1981
- "Technology and Society" (six sessions), ASME Winter Annual Meeting, Washington, 1981
- "On the Proper Way to Measure Industrial Noise," Institute of Noise Control Engineering, InterNoise'82, San Francisco, 1982
- "Laboratory Accreditation," 108th Meeting of the Acoustical Society of America, Minneapolis, 1984
- "Sound Intensity Standards," Institute of Noise Control Engineering, InterNoise'84, Honolulu, 1984
- "Computer Aided Testing," Institute of Noise Control Engineering, NoiseCon'85, Columbus, 1985

- "Modal Analysis Experimental Case Histories," International Modal Analysis Conference, Los Angeles, 1986
- "Noise Control for Electronic Packaging," ASME Winter Annual Meeting, Anaheim, 1986
- "Sound Intensity to Measure Sound Power," 112th Meeting of the Acoustical Society of America, Anaheim, 1986
- "Interior Noise in High Speed Aircraft," 115th Meeting of the Acoustical Society of America, Seattle, 1988
- "Problems of Sound Transmission and Privacy in Buildings," North Carolina Regional Chapter of the Acoustical Society of America, Charlotte, Spring 1988
- "Development of Design Information. Acoustical Measurements," NoiseCon-88, W Lafayette, IN, June, 1988
- "Sound Power from Sound Intensity," InterNoise'89, Newport Beach, CA, Nov 1989
- "Reverberation and Ray Tracing in Enclosures," InterNoise-92, Toronto, ON, Jul 1992
- "Architectural Acoustics Spaces for Music Performance," The Wallace Clement Sabine Centennial Symposium," Cambridge, MA Jun, 1994
- "In-house Noise Control Programs and Education," InterNoise-95, Newport Beach, CA Jul, 1995
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"Noise Control The State of the Art," INVITED, EPA/COG Workshop, College Park, Dec, 1976
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"The Response of People to Noise An Analysis of a Local Government's Experience," 94th Meeting of the Acoustical Society of America, Miami Beach, Dec, 1977
"Predicting the Noise from Stop-and-Go Traffic," 96th Meeting of the Acoustical Society of America, Honolulu, November, 1978
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"Health and Safety in the Park Service," INVITED, Field Federal Safety and Health Council, Washington, Feb, 1982
"Real-time Sound Intensity-A Digital Approach," Chesapeake Electronics Show, New Carrollton, MD, Oct, 1982
"Acoustic Intensity Theory and Measurement," INVITED, Washington DC Chapter of the Acoustical Society of America, April, 1983
"A Standard Community Noise Measurement Procedure," INVITED, National Environmental Health Association, Norfolk, July, 1983
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"Using Sound Intensity to Determine Room Corrections," INVITED, 108th Meeting of the Acoustical Society of America, Minneapolis, Nov, 1984
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"The Measurement of Sound and Surface Intensity," North Carolina Chapter of the Acoustical Society of America, Oct, 1985

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"Sound Intensity Measurements to Solve Real World Problems," INVITED, North Carolina Chapter of the Acoustical Society of America, Charlotte, NC, April, 1986

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"Applications of Acoustic Intensity Measurements," INVITED, Washington DC Chapter of the Acoustical Society of America, March, 1987

"Newer Measures and Measurements for Room Acoustics," INVITED, North Carolina Chapter of the Acoustical Society of America, Raleigh, NC, March, 1987

"Selecting the Right Instruments and Transducers for Vibration Measurements" and "Spectrum Analyzers What They Can and Cannot Do," 1987 Short Course on Vibration Control, The Pennsylvania State University, October 1987, State College, PA

"The case for product noise control Foreign Markets," INVITED, North Carolina Chapter of the Acoustical Society of America, Raleigh, NC, Oct, 1987

"Controlling the Shape of an Acoustic Spectrum Automatically in Various Spaces," 114th Meeting of the Acoustical Society of America, Miami, FL, November, 1987

"Sound Intensity," INVITED, Beijing Institute of Labour Protection, Beijing, September 1987

"Sound Power Determination for HVAC Systems," INVITED, Danville Chapter of American Society of Heating, Ventilating and Air conditioning Engineers, Danville, IL October, 1987

"Instruments Suitable for In-flight Intensity Measurements," INVITED, SAE Committee A-21 on Aircraft Noise, Cambridge, MA April, 1987

"Absorption and Transmission Loss Test Methods Their use and problems," INVITED, North Carolina Chapter of The Acoustical Society of America, Charlotte, March, 1988

"Controlling the Shape of an Acoustic Spectrum Automatically," 34th Annual Meeting of the Institute of Environmental Sciences, King of Prussia, PA, May 1988

"Measurement of Sound by the Simultaneous use of Different Time Constants," 115th Meeting of the Acoustical Society of America, Seattle, WA, May, 1988

"Sound Power of Reference Sources in Various Environments," INVITED, NoiseCon-88, W Lafayette, IN, June 1988

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"Measuring acoustic impedance the results of a world-wide round robin," 116th Meeting of the Acoustical Society of America, Honolulu, November, 1988

"Sound and Sound Power Determination for HVAC Systems," INVITED, ASHRAE Ozarks Chapter, January 1988, Springfield, MO

"Sound Intensity The New Technology for Noise Control," American Industrial Hygiene Conference, May, 1989

"High Intensity Acoustic Testing for ESS," IES Environmental Testing and Production Screening Conference, June, 1989, Baltimore, MD

"Noise Control and Acoustics," Short Course for Brooks Air Force Base, San Antonio, July, 1989

"Impedance Tube Measurements A round robin comparison," INVITED, InterNoise'89, Newport Beach, CA, Nov , 1989

"Sound Intensity Standards Putting theory into practice with a round robin," InterNoise'89, Newport Beach, CA, Nov , 1989

"Measuring Sound in HVAC Systems," Lecture at the ASHRAE, NEBB, and MCA Short Course, Memphis, TN, Dec , 1989

"Selecting the Right Instruments and Transducers for Vibration Measurements" and "Spectrum Analyzers What They Can and Cannot Do," 1989 Short Course on Vibration Control, The Pennsylvania State University, October 1989, State College, PA

"Sound Intensity" and "Selected topics for sound power measurement," INVITED, Air Movement and Control Association Engineering Conference, May, 1990, Rosemont, IL

"Getting the Correct results from Vibration measurements," and "Selecting the Spectrum Analyzer You need," 1990 Short Course on Vibration Control, The Pennsylvania State University, October 1990, State College, PA

"Instrumentation for Motor Vehicle Noise Measurement," Society of Automotive Engineers Brake Colloquium, Atlantic City, NJ, Oct , 1990

"Measuring of Sound levels a tutorial," Audio Engineering Society Paper # 3158 (F-1)se/f-1, Audio Engineering Society, New York, Oct 1991

"Getting the Correct Results from Vibration Measurements," and "Selecting the Spectrum Analyzer You Need," 1991 Short Course on Vibration Control, The Pennsylvania State University, October 1991, State College, PA

"Noise Measurements and applications," INVITED Seminar before the Rank O'Conners Sales Organization, Singapore, Dec, 1991

"Getting the Correct Results from Vibration Measurements," and "Selecting the Spectrum Analyzer You Need," 1992 Short Course on Vibration Control, The Pennsylvania State University, October 1992, State College, PA

"Aspects of Noise Measuring & Rating in HVAC Systems" INVITED, National Environmental Balancing Bureau Recertification Seminar, March 1994, New Carrollton, MD

"Deterministic Excitation Signals for Building Acoustics," INVITED, Audio Engineering Society, March 1995, Washington, DC

"Workshop on Noise Measurements," INVITED, Two Workshops Sponsored by the National Hearing Conservation Association, March 23, 1995, Cincinnati, OH

"Sound Intensity. Theory, standards, and applications for the determination of sound power and material properties," INVITED Air and Waste Management Association 88th Annual Meeting, San Antonio, TX, June, 1995

"On some contemporary topics in noise control," INVITED Sociedad Mexicana de Acústica, AC, Sept , 1995

"Making vibration measurements transducers and instrumentation," INVITED lecture at the Polytechnic Institute of Mexico, Sept , 1995

"Getting the Correct Results from Vibration Measurements," and "Selecting the Spectrum Analyzer You Need," 1995 Short Course on Vibration Control, The Pennsylvania State University, October 1995, State College, PA

Testing, Measurement and Calculations for Noise Control," INVITED lecture at the Washington DC Regional Chapter of the Acoustical Society of America, January 1996, Wash DC

On Some Contemporary Topics in Noise Control," INVITED lecture at the Los Angeles Regional Chapter of the Acoustical Society of America, January 1996, Los Angeles, CA

"Getting the Correct Results from Vibration Measurements," and "Selecting the Spectrum Analyzer You Need," 1996 Short Course on Vibration Control, The Pennsylvania State University, October 1996, State College, PA

"Acoustical Instrumentation Calibration," Two INVITED seminars at National Hearing Conservation Association, February 1997, Orlando, FL

"Architectural Acoustics for Dummies " INVITED guest lecture at U Alabama, Dept M E , February 1997, Tuscaloosa, AL

"Calibration Issues for Sound Measurement," INVITED talk before Chesapeake Chapter of the Institute of Environmental Sciences, April 1997, Ft Meade, MD

"The Acoustical Testing of Thermally Insulated Exterior Building Elements," ASTM Symposium on Insulation Materials, Quebec, PQ May, 1997

"Environmental Noise Model," INVITED presentation at 90th Meeting of the Air and Waste Management Association, Toronto, ON, June, 1997

"The European Machinery Directive & the US Standards Process," INVITED presentation at the Washington DC Chapter of the ASME, Wheaton, MD September, 1997

"Getting the Correct Results from Vibration Measurements," and "Selecting the Spectrum Analyzer You Need," 1997 Short Course on Vibration Control, The Pennsylvania State University, October 1997, State College, PA

"Calibration and use of measuring microphones," INVITED presentation at the 1997 Fall Meeting, North Carolina Chapter of the Acoustical Society of America, Asheboro, NC, October, 1997

"On calibrated measuring microphones and their use in ordinary sound fields," INVITED Paper, International Mechanical Engineering Congress, ASME, Dallas, November 1997

"Hot Topics in Acoustics Room Criteria," INVITED presentation at Acoustical Society of America, San Diego, December, 1997

"Room noise criteria," INVITED presentation at the 1998 Spring meeting, North Carolina Chapter of the Acoustical Society of America, Raleigh, NC, March, 1998

"Maximum length sequence in room acoustics," INVITED presentation at the 1998 Fall Meeting, North Carolina Chapter of the Acoustical Society of America, Asheboro, NC, Oct, 1998

"The role and future of the European Machinery Safety Directive," INVITED presentation at the 1999 Spring Meeting, North Carolina Chapter of the Acoustical Society of America, Raleigh, NC, April, 1999

"Silencers Misnomers and Misapplications," ASHRAE Summer Meeting, Seattle, June, 1999

"On Temporal Sampling Strategy in Community Noise Measurement, Transportation Research Board A1F04 Committee 1999 Summer Meeting, San Diego, CA Aug 1999

"Uncertainty in sound power determination and implications for power plant acoustics," INVITED paper, InterNoise 2000, Nice, FR Aug 2000

"On HVAC duct acoustical end reflection," Presentation at NoiseCon 2000/Acoustical Society of America, Newport Beach, CA, Dec 2000, (Coauthored)

"On sound power determination The uncertainty of sound power in a reverberation room based on a round-robin," INVITED presentation at NoiseCon 2000/Acoustical Society of America, Newport Beach, CA, Dec 2000

"Standards in acoustics of the American Society of Heating, Refrigeration, and Air-conditioning Engineers (ASHRAE), "Presentation at NoiseCon 2000/Acoustical Society of America, Newport Beach, CA, Dec 2000,

"Thirty-five years of acoustical instrumentation," INVITED presentation at the 2001 Spring meeting, North Carolina Chapter of the Acoustical Society of America, Raleigh, NC, March, April, 2001

"Vibrations and Acoustics Uses for manufacturing Engineers," INVITED presentation at the October Joint Technical program, SME, ASME, IIE, Annandale, VA, October 23, 2001

"Measurement of sound absorption and sound reflection in-situ," Annual meeting of the Transportation Research Board, Washington, DC Jan 17, 2002

"Insertion loss of microphone windscreens," INVITED presentation at the 2002 Spring Meeting, North Carolina Chapter of the Acoustical Society of America, Raleigh, NC, April, 2002

"On windscreen insertion loss," presentation at the Acoustical Society of America, Pittsburgh, PA, June 2002

"Field testing v laboratory results do they correlate?" INVITED paper at the AEvaluating Exterior Noise rating Systems for Buildings" symposium of the Building Environment and Thermal Envelope Council (BETEC), Washington, DC, June 2002

"On Windscreen Insertion Loss in Still Air," presentation at the Transportation Research Board, Committee A1F04 on Transportation-Related Noise and Vibration Summer Meeting, Austin, TX July 2002

"Windscreen Insertion Loss in Still Air," paper at the Canadian Acoustical Association, Charlottetown, PEI, October 2002

"Guide to the ASHRAE Handbook," INVITED paper at the North Carolina Chapter of the Acoustical Society of America, Raleigh, NC, November 2002

"A round-robin test of HVAC silencers by various labs," paper at the North Carolina Chapter of the Acoustical Society of America, Greensboro, NC, April 2003

"Everything you wanted to know about noise measurement," INVITED presentation before the Maryland Noise Advisory Council, June 2003

"Measuring with Sound level Meters the real difference between Type 1 and Type 2," Paper at the Summer Annual Meeting of the Committee A1F04 on Transportation Related Noise and Vibration of the National Research Council, Scottsdale, AZ, July 2003

"Microphone Characteristics and their Calibration," Paper at the Summer Annual Meeting of the Committee A1F04 on Transportation Related Noise and Vibration of the National Research Council, Scottsdale, AZ, July 2003

"The sounds of a murder," INVITED presentation at the Acoustical Society of America, Austin, TX October 2003

"Technology Issues in Developing a Noise Abatement Policy," R J Peppin, Invited presentation Foro para el Desarrolo de un Plan Integrado Contra Ruidos, San Juan, February 11, 2004

"Current Trends in Metrics and Equipment used to Collect and Analyze Sound Level Data," R J Peppin, Invited paper and presentation at Air and Waste Management Association Annual Conference, June 22-25, Indianapolis

"The Sounds of a Murder- a Case History of Forensic Acoustics," R J Peppin, Invited presentation, Washington DC Chapter of the ASA, April 7, 2004

"A Primer on sound and measurement," Invited lecture at Testing, Adjusting, and Balancing Bureau (TABB), Las Vegas, May 8, 2004

"How to Measure Indoor and Outdoor Sound Levels," R J. Peppin, HPAC Engineering (to be published)

"The role of standards in noise," R J Peppin, Invited paper, Acoustical Society of America, May 24-28, 2004, New York City

"Evaluating Sound Absorption in Situ Using "Adrienne," w/ R L. Wayson, NoiseCon2004 and Transportation Research Board A1F04 Summer Meeting and Exposition, Baltimore, July 12-14, 2004

"Speech Transmission Index- Public Address (STIPA) Objective Assessment of Intelligibility," w/ Ole-Herman Bjor, NoiseCon 2004 and Transportation Research Board A1F04 Summer Meeting and Exposition, Baltimore, July 12-14, 2004

"Measuring with Sound Level Meters The real difference between Type 1 and Type 2," Canadian Acoustical Association, Ottawa, ON, October, 2004

"Estimating community noise in a standard way A discussion about and the status of ISO 9613-2," Canadian Acoustical Association, Ottawa, October, 2004

"A Primer on Sound and its Measurement," INVITED technical seminar at ASHRAE Iowa Chapter, Des Moines, IA March 2005

"Computer Supported Prediction of Noise and Air Pollution," w/ W Probst, Spring Conference on Environmental and Occupational Noise, Banff, AB, May, 2005

"Uncertainties in Measurement and Estimation and Their Effects in Community Noise," Spring Conference on Environmental and Occupational Noise, Banff, AB, May, 2005

"Sound and Vibration," A nine-hour seminar for 90 persons, presented at Testing, Adjusting, and Balancing Bureau Yearly Conference, May 2005

"Acoustics and Instrumentation," Short course for Hillsborough County Environmental Protection, Hillsborough, FL, June 2005

"Uncertainty in measurements," Transportation Research Board ADC40 Summer Meeting, Seattle, WA, July 2005

"Carroll County Maryland Noise Ordinance and its Measurement, A INVITED, Carroll County Dept of Environment, Westminster, MD, September, 2005

"Noise Standards, A Workshop on Technology for a Quieter America, National Academy of Engineering, Washington, DC September, 2005

"Understanding Instrument Calibration," (w/ M Buzduga), Canadian Acoustical Association, London, ON, October 2005

"Charles County Maryland Noise Ordinance and its Measurement, INVITED, Charles County Health Dept , La Plata, MD, November 2005

"City of Fruitland Maryland Noise Ordinance and its Measurement," INVITED, Fruitland Police Department, Fruitland, MD,

December, 2005
"Impact Isolation Class and Building Acoustics," Seminar for Bostik, Inc Willow Grove, PA November, 2005
"Elements of Noise and Building Acoustics," Seminar for Homasote, Orlando, FL January, 2006
"Uncertainties in acoustical measurement and estimation," North Carolina Chapter of the Acoustical Society of America, Raleigh, April, 2006
"An aircraft counting system using Type2 sound level meter and computer program," TRB ADC40 Summer Annual Meeting, Williamsburg, VA, July, 2006 (w/ M Buzduga, J Giandomenico)
"The Difference between Type I and Type II Measuring Instruments," North Carolina Chapter, Acoustical Society of America, Raleigh, March 2007
"An Approach To Reduce Environmental Noise -How Europe Uses Noise Mapping and Action Planning," Spring Environmental and Occupational Noise Conference, Banff, AB, May 2007 (w/ W Probst)
"Community Noise Mapping and Action Planning- a European Approach to Reduce Environmental Noise," Presented at 2007 TRB ADC-40 Noise and Vibration Summer Meeting, San Louis Obispo, CA, July, 2007(w/ W Probst)
"A Standard Way of Measuring Rainfall Noise Isolation," INVITED presentation at the 154th meeting of the Acoustical Society of America, New Orleans, LA, Nov 2007 (w/R Coffeen)
"Noise Impacts of Landfills and Surface Mines Turned into Landfills," paper presented at 101st Annual Conference of the Air and Waste Management Association, Portland, OR, June 2008
"A Portable Aircraft Counter Based on Sound Levels," paper presented at 101st Annual Conference of the Air and Waste Management Association, Portland, OR, June 2008
"A Way to Measure Aircraft Noise, to Discriminate Among Ground and Air Sources, and to Identify Wind Generated Noise," paper presented at the Transportation Research Board's ADC-40 Summer Meeting, Key West, FL, July, 2008
"Measuring the Volume Displacement of Engines Using Acoustics," paper presented at NoiseCon 2008, Dearborn, MI, July 2008
"Noiseless and Safer Back-up Alarms," paper presented at NoiseCon 2008, Dearborn, MI, July 2008
"Measuring capacity with acoustics," Paper presented at NC Chapter of Acoustical Society of America, Raleigh, NC September 2008
"The fire code and speech intelligibility," Presentation at Acoustical Society of America, Miami, FL, November 2008
"A Way to Measure Community Noise in a Complex Acoustical Environment," Presentation at Transportation Research Board Committee ADC40, Dayton, OH, July, 2009
"Uncertainty in Noise measurement and Estimation," INVITED paper presented at International Workshop on Environmental Nuisances, Calgary, December, 2009
"A Way to Measure Aircraft Noise and the Location of the Aircraft, Simultaneously," INVITED Presentation at North Carolina Chapter of the Acoustical Society of America, Raleigh, March, 2010
"Uncertainties in measurements and predictions," paper submitted to at Air and Waste Management Association, Calgary, AB, June, 2010
"The effect of absorptive barriers on highway noise," paper presented at TRB ADC40 Committee meeting, Denver, CO July, 2010
"Basics of acoustics for test and balance professionals," INVITED lecture before Associated Air Balance Council, Annual Meeting, San Diego, October 2011
"Noise source location in complex areas using acoustical arrays," paper presented (With M E Moore) at the Pacific Northwest International Section of AWMA, Harrison Hot Springs, OR, Nov 2011
"A comparison of sound propagation approaches ISO 9613 v an advanced calculation method- Predictions versus experimental results," paper presented at NC Chapter of Acoustical Society of America, Greensboro, NC May 2012
"Noise Monitoring and Source Identification at Motorsport Circuits," paper presented at NC Chapter of Acoustical Society of America, Greensboro, NC May 2012
"Uncertainties in measuring HVAC noise," INVITED paper presented at 2012 ASHRAE Annual Meeting, San Antonio, TX, June 2012

Book Reviews

Journal of the Acoustical Society of America 20 Reviews (1976- present)
Chemical Engineering 7 Reviews (1975- present)
Shock and Vibration Digest 17 Reviews (1978- present)
Journal of the Environmental Sciences 29 Reviews (1977- present)
Noise Control Engineering Journal 17 Reviews (1980- present)
Library Journal 23 Reviews (1973-8)
International Journal of Acoustics and Vibration (2003- present)