

Qualifications

Acoustical, Technology, and Lighting

Thorburn Associates (TA) specializes in the design and consulting of acoustics, technology, and lighting systems. We are involved with multiple market sectors which help to facilitate cross pollination of solutions between markets. With experience on over 2600 projects, one of TA's strengths is our ability to provide an integrated solution for these technical aspects of the design. TA is a Woman-owned Small Business Enterprise (WSBE) with offices located throughout the U.S. to serve your needs.

COUSTICAL



Acoustical design combines art and science to modify noise to achieve a desired auditory environment. TA creates acoustical environments tailored to the occupants of each space. We combine our expertise with extensive laboratory and electronic testing equipment to meet the unique sound sensitivities of each project.

Room Acoustics - Sound Isolation - Mechanical Noise - Vibration Isolation - Environmental Noise

TECHNOLOGY



Technology systems design is an ever-growing industry bolstered by the constant demand for multimedia communications. TA works with our clients to develop the system that will best meet their needs while planning for and understanding maintenance, upgrade, and expansion needs.

Audiovisual Systems - Telepresence - Sound Masking/Paging - Structured Cabling - Security

BNILHB



We specialize in illumination design, a term that describes aspects much broader than the standard overhead electric lighting system; illumination also includes direct natural light, indirect natural light, indirect artificial light and reflected light, as well as the control of all light sources. As solution providers, TA enhances an environment through innovative yet practical lighting schemes.

Lighting Design - Fixture Layout - Specifications - Control Systems - Daylighting







DUKE ENERGY TRYON TOWER Charlotte, North Carolina

Acoustical, Sound Masking and Audiovisual Design services for Duke Energy located in Charlotte, North Carolina. Acoustics included an overall review of architectural assumptions made for Room Acoustics, Sound Isolation, and Mechanical Noise and Vibration Control. Sound Masking Design included classifying spaces appropriate for sound masking on typical Floors, one Legal Floor and one Multi-Use Floor only, and providing detailed design and commissioning services for appropriate systems. Audiovisual Design included seventeen Typical Floors, one Legal Floor, one Multi-Use Floor and the Executive Office Floors.

SAP TECHNOLOGY SOLUTION CTR Palo Alto, California

Audiovisual System programming for the SAP Solution Center which is made up of two Video Conferencing Rooms, a Demo Room/Theater and a Lobby / Entrance Room. Each room includes ceiling mounted document cameras for PDA demonstration, easy-to-use technology, electronic room signage, and control systems.

Acoustical consulting included sound isolation for the entire Center and recommendations for absorptive materials to improve overall room acoustics in the Demo Room/Theater.

SAS EXECUTIVE BRIEFING CENTER Cary, North Carolina

Provided Acoustical and Technology Consulting services for the 300,000 square foot SAS Executive Briefing Center in Cary, N.C. The Briefing Center includes two large auditoriums, an Atrium/Briefing area, breakout rooms and briefing rooms. TA provided room acoustics, sound isolation and mechanical system noise and vibration control consulting services for the Briefing Center. The technology design includes a digital signage system, videoconferencing capabilities for the briefing and breakout rooms, and a future telepresence option.

ADDITIONAL PROJECTS

- Bank of America Ft. Lauderdale, FL
- Biogen Idec Building 26 RTP, NC
- Cisco Systems Executive Briefing Center San Francisco, CA
- Deer Creek Briefing Center Palo Alto, CA
- Department of Health and Human Services Durham, NC
- Dollar Tree Headquarters Chesapeake, VA
- Elan Pharmaceuticals San Francisco, CA

- Green Square Raleigh, NC
- GSA Federal Building San Francisco, CA
- Hewlett Packard, Various Projects Palo Alto, CA
- Lockheed Martin Aeronautics Co. Palmdale, CA
- Microsoft Westfield Center San Francisco, CA
- Nissan North America, Corporate HQ Franklin, TN
- Quintiles Board and Conference Room Durham, NC
- SUGEN South San Francisco, CA
- WPP/Y&R Office Remodel San Francisco, CA









EVERGREEN VALLEY COLLEGE San Jose, California

The goal of the new Learning Resource Center building at Evergreen Valley College was to provide a "state of the art" learning facility to serve as the primary educational training facility for Silicon Valley. TA provided the Audiovisual and Control System Design. Current technology is used to effectively teach the students in a flexible learning environment. Several "levels" of ΑV solutions were developed based on room usage needs.

BAYLOR UNIVERSITY Waco, Texas

The Southwest Securities Financial Markets Center at Baylor University is equipped with leading edge technology, replicating the equipment found in the nation's top investment firms and financial institutions. The center provides a space for teaching, videoconferencing and financial data research in an environment that feels like a cross between a Fortune 100 Boardroom and a Financial Trading Center. TA developed the basic design of the space, and then worked with the campus architect to refine and execute the project.

UNIVERSITY OF NORTH CAROLINA Chapel Hill, North Carolina

The University of North Carolina at Chapel Hill (UNCCH) School of Pharmacy renovated Beard and Kerr Halls. One classroom in Beard Hall and two classrooms, an auditorium and a technology control room in Kerr Hall were upgraded to support distance learning with a nearby university. TA designed the audiovisual system with a focus on using UNCCH standard equipment to allow the spaces to perform user requirements with minimal staff and maximum reliability.

ADDITIONAL PROJECTS

- Appalachian State University Boone, NC
- California State University, Stanislaus Turlock, CA
- California State University, East Bay Hayward, CA
- Campbell University Buies Creek, NC
- Central Texas College Killeen, TX
- Elizabeth City University Elizabeth City, NC
- George Washington University Washington, DC
- Indiana University Indianapolis, IN
- James Madison University Harrisonburg, VA
- Miami Dade Community College Miami, FL
- Montclair State University Montclair, NJ
- NC A&T State University Greensboro, NC
- North Carolina State University Raleigh, NC

- Stanford University Palo Alto, CA
- University of Cincinnati Cincinnati, OH
- University of Illinois Champaign-Urbana, IL
- University of Nevada at Las Vegas Las Vegas, NV
- University of New Mexico Albuquerque, NM
- University of North Carolina Asheville, NC
- University of North Carolina Charlotte, NC
- University of North Carolina Pembroke, NC
- University of Oklahoma Tulsa, OK
- University of South Florida Tampa, FL
- University of the Ozarks Clarksville, AR
- University of Wisconsin Madison, WI
- Wake Forest University Winston-Salem, NC







DAVIS HIGH SCHOOL, LIBRARY Davis, California

The convex ceiling of the Davis High School Library is the focal point of the design, but not the focal point of the acoustical environment within the space. The ceiling, in combination with the high volume of open space, makes the building high risk for echoes and reverberation. Thorburn Associates was called on to provide acoustical details for this space, the last and only new construction component of the campus's multi-phased renovation.

By addressing the finish materials, text book storage and student locations, acoustical challenges were avoided.

DAVIS HIGH SCHOOL, CLASSROOM Davis, California

In addition to the library space, Thorburn Associates provided acoustical details for the classroom wing of the new building.

The required amount of sound isolation for the rooms was provided wall by specific and ceiling constructions, along with window, door, and duct/conduit penetration details. High levels of sound isolation were included in the design to help ensure that noise from the classrooms will not affect the adjacent spaces.

CESAR CHAVEZ EDUCATION CTR. Oakland, California

The Cesar Chavez Education Center represents more than a new school in an overcrowded school district. The design is a model CHPS (Collaborative for High Performance Schools) school.

Acoustically, the facility faced steep challenges, with Bay Area Rapid Transit (BART) tracks less than 400 feet from the nearest classroom on one side and the very busy International Boulevard flanking the school on the other side. To reduce sound from outside sources, additional layers of gypsum board on the walls and ceiling provided a higher level of noise attenuation.

ADDITIONAL PROJECTS

- Andrews Elementary School Andrews, SC
- Apex Middle School Auditorium Apex, NC
- Archbishop Mitty High School San Jose, CA
- Atkins High School Winston-Salem, NC
- Bertie High School Renovation Windsor, NC
- CHPS Compliance Model Classroom Richmond, CA
- Christopher High School Gilroy, CA
- Cumberland County High School Fayetteville, NC
- Daniels Middle School Raleigh, NC
- Diamond High School Anchorage, AK
- East Forsyth High School Forsyth, NC
- Franklin Academy Wake Forest, NC

- Glenn High School Auditorium Kernersville, NC
- Guilford Northern High School Greensboro, NC
- Harnett County High School Fayetteville, NC
- Hobbton Elementary School Newton Grove, NC
- Kern High School Lake Isabella, CA
- Leroy Martin Middle School Raleigh, NC
- Lynbrook High School San Jose, CA
- Mercy High School San Francisco, CA
- Mission San Jose High School San Jose, CA
- Mt. Tabor High School Winston-Salem, NC
- Raleigh Charter High School Raleigh, NC
- Reagan High School Winston Salem, NC





Oakland Fire Station #20 Oakland, California

Located at 1401 98th Avenue, the City of Oakland Fire Station #20 is one of 25 stations supported by 500 uniformed personnel. With extensive equipment and resources to respond to any emergency the Oakland Fire Department responds to over 60,000 calls annually.

TA worked on Fire Stations # 3 and #20 providing acoustical recommendations for interior to exterior sound isolation, room acoustics, and mechanical noise and vibration control.

COUNTY OF KERN EOC Bakersfield, California

Working with BFGC Architects Planners Inc., TA provided audiovisual consulting services for the new County of Kern Emergency Operations Center (EOC) located in Bakersfield, CA. This standalone facility, nearly 7,000 square feet in size, is designed to be the command center for County operations during a disaster/emergency situation, and when not operating under an emergency situation, it is utilized by the Kern County Fire Department for training, video teleconferencing, meetings and presentations. The three principal areas are the Emergency Operations Center (EOC), the Media Room/Joint Information Center, and the Conference Room.

ADDITIONAL PROJECTS

- Alta Bates Emergency Operations/ Medical Conference Center – Berkeley, CA
- City of Galt Police Department Galt, CA
- City of Palo Alto Public Safety Bldg. Palo Alto, CA
- Daly City Police Station Daly City, CA
- East Bay Municipal Utilities District Emergency
 Operations Center Oakland, CA
- Fire Station #3 Oakland, CA
- Fire Station #5 Chico, CA
- Fire Station #31 Sound Wall San Ramon, CA

- Fire Station #72 El Cerrito, CA
- Forsyth County Detention Center Forsyth, NC
- Metrocomm and Radio 911 Las Vegas, NV
- NC National Guard Joint Headquarters Building Raleigh, NC
- Palm Beach County Emergency Operations Center –
 Palm Beach, FL
- US Bureau of Reclamation Emergency Operations Center – Sacramento, CA







GSA FEDERAL BUILDING San Francisco, California

One of the driving elements of the design of the new San Francisco GSA Building is providing natural ventilation to the tower section. This design creates many acoustical challenges for the intended open plan offices areas, as well as other areas. TA provided designs and solutions for room acoustics, speech privacy, mechanical noise, and sound isolation in a LEED certified building.

OFFICE OF CHIEF JUSTICE OF THE TOWN HALL SUPREME COURT Wake Forest

San Francisco, California

Conducted acoustical measurements in the Chief Justice's office and the office directly below to determine the appropriate window glazing system to reduce the street / traffic noise to an acceptable level. We also developed a design build specifications for the custom installation of the window system.

TOWN HALL Wake Forest, North Carolina

This newly constructed 2,200 square foot board room seats 100 with 11 people at the commissioner's dias. TA provided a onetime acoustical review with specific focus on achieving appropriate criteria for the board room. TA also provided full technology system design services for the board room, conference rooms and public lobby area.

ADDITIONAL PROJECTS

- Camp Lejeune Littoral Warfare Training Center Jacksonville, NC
- Edwards Air Force Base Mojave, CA
- El Cerrito City Hall El Cerrito, CA
- Emeryville City Hall Emeryville, CA
- GSA Hearing Room Alameda Hayward, CA
- IRS Oakland Conference Room Oakland, CA
- Lockheed Martin Conferencing Palo Alto, CA
- Los Altos Hills Town Hall Los Altos Hills, CA
- Los Angeles VA Hospital Los Angeles, CA
- Menlo Park VA Hospital Menlo Park, CA
- Naval Air Station Joint Reserve Base, Calibration Building - New Orleans, LA

- NC National Guard Joint Forces Headquarters
 Building Raleigh, NC
- San Leandro City Hall Rebid San Leandro, CA
- Travis Air Force Base, Global Support Squadron
 Command and Operations Facility Fairfield, CA
- U.S. Coast Guard Integrated Support Command -New Orleans, LA
- US Bureau of Reclamation Regional Conference Room - Sacramento, CA
- USGS/GSA Bldg. 3 Menlo Park, CA
- VA Administration Building, Jones Hall Army Reserve Center - Mountain View, CA







EL CAPITAN THEATRE' Hollywood, California

El Capitan Theatre was a historical restoration of the original theatre built in 1926. The theatre went through several attempts of restoration and preservation. However 1991, it was time for the beauty of the theatre to be rediscovered. In multiple phases, Gallegos Lighting created lighting design for the façade, entry lobby, auditorium, and overture. The design played with colors and included accent lighting, theatrical lighting, historical reproductions of decorative pendants, and chandeliers.

*Personal Experience

MADISON COUNTY COURTHOUSE Madison, Virginia

The Madison County Courthouse was a restoration of a historical courthouse built in 1830. TA provided an overview acoustics. mechanical room noise/vibration control and sound isolation for the overall building. Audiovisual efforts were concentrated on the three courtrooms. This included providing the system's functional requirements, developing preliminary opinion of probable cost, preparing the contract construction document drawings, overseeing the bidding and negotiation for the audiovisual contractor, and providing construction administration.

BAKERY LOFTS 4 Emeryville, California

Bakery Lofts is a condo conversion of the historic Remar Bakery. It consists of a two-story wood-framed building housing 12 apartment units and a future café and community room. TA provided acoustics and sound mitigation studies and designed a sound masking system for this project.

ADDITIONAL PROJECTS

- Office of Chief Justice of the Supreme Court San Francisco, CA
- Harris Inc. Richmond, VA
- Forsyth County Government Center Winston-Salem, NC
- Long View Center Raleigh, NC
- Madison County Courthouse Madison, VA
- Old Courthouse Museum Sioux Falls, SD
- Children's Hospital Research Institute Oakland, CA
- Asian Art Museum San Francisco, CA
- N.C. A&T State University, Frazier and Dudley Hall -Greensboro, NC

- USS Lexington-Mega screen Theatre Corpus Christi, TX
- Charles Green Library Oakland, CA
- Riverside County Courthouse Riverside, CA
- Historic Alameda High School Alameda, CA
- On Lok Larkin Senior Living San Francisco, CA
- Embarcadero Lofts San Francisco, CA
- Hannah Block Historic USO Building Wilmington,
- The Highland Center Monterey, VA
- PG&E Headquarters San Francisco, CA





Venice, California

Provided acoustical consulting services and an environmental noise study for the design of a new luxury boutique hotel in Venice, CA known as Hotel Ray. The hotel is a 55,000 square feet, five story, 57-room hotel, which will sit above two levels of subterranean parking. The hotel amenities include: roof top pool and deck, spa and fitness center, restaurant and retail outlets.



ANA Hotel

San Francisco, CA

ANA Hotel had a complete renovation which included audiovisual construction system design and administration for the ballroom and conference center upgrade. TA designed the system which includes multiple table locations, signal microphones, background music, auxiliary inputs and ADA hearing assistance system. The hotel ballroom system requirements included speech and audio reproduction with slide, video, and computer display.

ADDITIONAL PROJECTS

- Aladdin Hotel & Casino Las Vegas, NV
- Comfort Suites Castro Valley, CA
- Harvey's Kanesville, Queen Riverboat Casino -Council Bluffs, Iowa
- Harvey's Casino, "Party Zone" Renovation South Lake Tahoe, NV
- High Roller Suite Las Vegas, NV
- Holiday Inn Express San Francisco, CA
- International Hotel San Francisco, CA
- Lafayette Park Hotel Walnut Creek, CA

- Mark Hopkins Hotel San Francisco, NV
- Marriott Residence Inn Sacramento, CA
- Napa Valley Sheraton Inn Napa, CA
- Ritz Plaza Hotel Miami Beach, FL
- Rose Hotel Pleasanton Inn Pleasanton, CA
- The Chateau of Mandalay Bay Las Vegas, NV
- Villages Golf & Country Club San Jose, CA







FORSYTH MEDICAL CENTER Winston-Salem, North Carolina

Acoustical design services for the new construction of a 2-story conference center infilling a space between the recently completed parking deck and a 10-story hospital addition. Services included room acoustics, sound isolation, and mechanical noise and vibration control for the 23,000 square feet of the first floor, which consists of one video conference room and six smaller divisible conference rooms with the ability to flex up and down in size, and three large rooms that can be combined into one.

ON LOK LARKIN San Francisco, California

Located on a sloping hillside at the intersection of busy downtown streets, this senior care facility required acoustical consulting for the interior spaces as well as an exterior noise study (known as a Title 24, Part 2 review). These sound measurements documented the existing traffic noise levels within the building. Our engineers then analyzed the data to determine mitigation measures which would prevent the residents from being disturbed by the noise.

KAISER SANTA CLARA Santa Clara, California

The Kaiser Santa Clara replacement hospital project moved and expanded the existing facility. The move maintained the hospital, medical office building, and helipad, but also provided a central parking area and expanded outpatient services. TA provided acoustical design to help control reverberation and improve the overall general acoustical environment within the space. Sound Isolation and recommendations on methods to mitigate the vibration transfer of an elevator were also provided.

ADDITIONAL PROJECTS

- Duke Hospital Surgical Suite Durham, NC
- Veterans Administration Hospital Los Angeles, CA
- McDowell Hospital Marion, NC
- Rehaboth Hospital Albuquerque, NM
- Santa Rosa Memorial Hospital Santa Rosa, CA
- Self Regional Healthcare Greenwood, SC
- Sequoia Hospital Redwood City, CA
- St. Joseph's Medical Center Walnut Creek, CA
- Stanford Hospital Palo Alto, CA
- Washington Hospital Fremont, CA
- Kaiser Medical Center Los Angeles, CA
- Eden Medical Center Castro Valley, CA
- Kaiser Medical Center San Francisco, CA
- Alzheimer's Services of the East Bay Berkeley, CA

- San Mateo Medical Center San Mateo, CA
- Kaiser Permanente Santa Teresa San Jose, CA
- Kaiser Medical Center Pleasanton, CA
- Palo Alto Medical Foundation Palo Alto, CA
- Veterans Administration Hospital Menlo Park, CA
- Children's Hospital Oakland, CA
- Sutter Medical Center Sacramento, CA
- John Muir Medical Center Walnut Creek, CA
- University of California at San Francisco, Hospital Building – San Francisco, CA
- Transylvania Community Hospital Brevard, NC
- Cape Fear Valley Medical Fayetteville, NC
- East Valley Health Complex San Jose, CA
- Santa Clara Valley Medical Center Santa Clara, CA







GREENBRIDGE CONDOMINUMS Chapel Hill, North Carolina

The Greenbridge Mixed-Use Complex is a sustainable project pursuing LEED Gold Level Certification. TA provided sound isolation and mechanical noise and vibration control services. TA collaborated on the design and testing of an enclosure for the newly designed heat pump system to verify that it will function at acceptable noise levels.

BAKERY LOFTS 4 Emeryville, California

Bakery Lofts is a condo conversion of the historic Remar Bakery. It consists of a two-story wood-framed building housing 12 apartment units and a future café and community room. TA provided acoustics and sound mitigation studies and designed a sound masking system for this project.

MAIN STREET AT ENKA VILLAGE Asheville, North Carolina

Main Street at Enka Village is a mixeduse project featuring an assembly of retail, office, housing and dining in a village-like atmosphere. TA provided sound isolation consulting services for the seven buildings in the development.

ADDITIONAL PROJECTS

- 2nd and Santa Clara Street Santa Clara, CA
- 377 Second Street Condo San Francisco, CA
- Atlantic Times Square Monterey Park, CA
- Castalia at Meadowmont Chapel Hill, NC
- Davenport Roadhouse at the Cash Store Davenport, CA
 - Highland Village Cary, NC
 - Kane Realty Corporation Bowling Alley Raleigh, NC
 - Market @ 9th & Flower Los Angeles, CA
 - Patrick Henry Place Newport News, VA
 - Plaza Apartments San Francisco, CA
 - RBC Plaza Condominiums Raleigh, NC
 - The Curve Condominiums Las Vegas, NV









ALAMO SQUARE APARTMENTS San Francisco, California

This project is a mix of low income apartments and entry-level condo homes. Four stories of wood frame construction were built over a parking garage. TA successfully addressed the acoustical challenges relating to the impact isolation of the buildings' floor/ceiling system and windows. The site was a block wide infill project, the border of which was two busy commuter streets in the "western addition" of San Francisco.

TURNBERRY PLACE Las Vegas, Nevada

As the first high rise condominium building in Las Vegas, the Turnberry Place project set the design criteria for which others were to be judged. TA provided acoustical consulting for the space, including developing party wall, floor/ceiling constructions, and other sound isolation details to help limit the amount of noise transferred between units. In addition, TA also provided mechanical noise and vibration control recommendations to help reduce the noise from the plumbing, trash chutes, elevators and rooftop equipment.

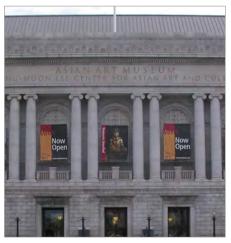
MARKET HEIGHTS APARTMENTS San Francisco, California

Located at the corner of the 101 and 280 interchange in San Francisco, this 46-unit infill low income apartment project not only had to address unit to unit sound and impact isolation, but also exterior to interior noise control. The 101/280 interchange is busy throughout the day creating noise levels that were louder than typically found in this area of town.

ADDITIONAL PROJECTS

- Alma Street Palo Alto, CA
- Arts & Gurney vs. Monasterio San Francisco, CA
- Bakery Lofts Emeryville, CA
- Brittan Heights Condominiums San Carlos, CA
- Castalia at Meadowmont Chapel Hill, NC
- Decker vs. Lewis Homes Vacaville, CA
- Embarcadero Lofts San Francisco, CA
- Few Gardens Hope Durham, NC
- Ford's Colony Condos Williamsburg, VA
- Franke at Seaside Residence Mt. Pleasant, SC
- Greenbridge Mixed-Use Complex Chapel Hill, NC
- Hagood Reserve Condominiums Charlotte, NC
- Highland at Briar Creek Raleigh, NC

- International Hotel San Francisco, CA
- Main Street at Enka Village Asheville, NC
- Mills College, Dormitory Oakland, CA
- MGM East Las Vegas, NV
- Old Town Oakland Oakland, CA
- Oriental Harbor Place New Bern, NC
- Patrick Henry Place Newport News, VA
- Plaza Apartments San Francisco, CA
- RBC Plaza Condominiums Raleigh, NC
- Stanley Courts Castro Valley, CA
- Turtle Clay Condominiums Wilmington, NC
- West Condominiums Raleigh, NC
- Yerba Buena Commons San Francisco, CA







ASIAN ART MUSEUM San Francisco, California

Our work for this 140,000 square foot historical building encompasses the acoustic design (room acoustics, sound isolation, and HVAC noise control), developing audiovisual systems for the Gallery, Educational/Classroom and Conference Rooms, and audio/paging system designs for the guest and retail areas. Due to its historical designation, the museum was built in 1917, acoustical recommendations were coordinated so as not to disturb existing finishes.

ALBUQUERQUE MUSEUM OF ART AND HISTORY

Albuquerque, New Mexico

This project was a major expansion on the existing Albuquerque Museum, including a new event hall and lobby.

Thorburn Associates selected finishes for the new event hall and lobby areas to promote natural acoustics within the space. In addition, TA provided basic acoustical guidelines, noise control for the HVAC system and infrastructure design for the audiovisual system.

GREEN SQUARE COMPLEX Raleigh, North Carolina

Provided Room Acoustics, Sound Isolation and Mechanical Noise and Vibration Consulting Services for the project. Designed the audiovisual systems, paging systems and sound masking systems as well as the radio and television studios for the facility. Green Square is a facility for the Department of Environment and Natural Resources containing the Museum of Natural Sciences in downtown Raleigh, N.C. The project is on track for LEED Gold certification.

ADDITIONAL PROJECTS

- Indianapolis Children's Museum Indianapolis, IN
- Old Courthouse Museum Sioux Falls, SD
- EcoTarium Exhibit Hall Worcester, MA
- Oakland Zoo, Entrance Pavilion Oakland, CA
- Smithsonian American History Flag Hall Washington, DC
- Barrow Cultural Center Barrow, AK
- University of North Carolina, Chapel Hill, Ackland
 Art Museum Chapel Hill, NC
- Kirkpatrick Science & Air Space Museum –
 Oklahoma City, OK
- Farmington Museum Farmington, NM

- San Diego Natural History Museum San Diego, CA
- Bechtler Museum Charlotte, NC
- Pro Rodeo Hall of Fame Colorado Springs, CO
- Computer History Museum Redwood City, CA
- Anchorage Museum, History & Art Anchorage, AK
- Putnam Natural History Museum Davenport, IA
- Smithsonian National Museum of Natural History Washington, DC
- Children's Discovery Museum San Jose, CA
- San Bernardino County Museum Dome –
- Redlands, CA





DEANZA PERFORMING ARTS CENTER Cupertino, California

Thorburn Associates teamed with DES Architects to provide acoustic and audiovisual consulting for this state-of-the-art project featuring a 400-seat theater and adaptable, technologically advanced learning spaces. This building is in the process of achieving LEED-silver certification.

The 20,500 square foot theater was designed to accommodate lectures, dance and music, cinema and drama, and to facilitate rapid changeovers from one use to another.



BARTLETT COMMUNITY THEATRE Anchorage, Alaska

This new Performing Arts Wing includes rehearsal rooms for band, choir, orchestra, and dance and a 400-seat auditorium with full production capabilities. The rehearsal rooms have audio systems for music recording and playback. The auditorium's sound system includes: capabilities for small presentations with no technical support using a plug and play automatic mixing feature. Larger productions use mixers located either in the control booth or at a mix position in the audience area. The system supports the future addition of front projection video and computer sources.

ADDITIONAL PROJECTS

- N.C. A&T State University, Robeson Theatre Greensboro, NC
- Aladdin Hotel & Casino, Music Experience Theatre Las Vegas, NV
- Archbishop Mitty High School, Theatre Renovation –
 San Jose, CA
- Atkins High School, Performing Arts Stage Winston-Salem, NC
- Christopher High School, Auditorium Gilroy, CA
- New Traditions Elementary School, Auditorium San Francisco, CA
- Mt. Tabor High School, Performing Arts Center –
 Winston-Salem, NC
- Leroy Martin Middle School

 Raleigh, NC
- Western Carolina University, Coulter Recital Hall Cullowhee, NC

- N.C. A&T State University, Harrison Auditorium Greensboro, NC
- Diamond High School, Auditorium Anchorage, AK
- San Manual Band of Mission Indians Community
 Center Highland, CA
- Monte Vista High School, Theatre Danville, CA
- Reagan High School, Performing Arts Center Winston-Salem, NC
- Crow Landing Middle School, Music/Performing Arts Room – Newman, CA
- Father Ryan High School, Theater Nashville, TN
- Cumberland County High School, Auditorium Fayetteville, NC
- Presentation High School, Theatre Building San Jose, CA
- Bellevue High School, Performing Arts Building Merced, CA







BLOOMINGDALE'S Las Vegas, Neveda

Federated Department Stores Audiovisual System Design for Bloomingdale's Home Store in the Fashion Show Mall - Las Vegas, NV. The system includes a full range distributed audio system throughout the entire store. A video system in the Demonstration Kitchen provides image reinforcement and playback of cooking and product demonstrations. The store's music content is delivered by a state-of-the-art Internet based delivery system.

California State University at Hayward, University Bookstore Hayward, California

David Bartlett Associates Developed acoustical details for a new 36,500 foot, building square 3-story immediately adjacent to the existing library. Focused on isolating noise from the HVAC systems and reviewed sound transmission between the retail and office spaces.

GRACE PARK Morrisville, North Carolina

J Davis Architects Provided Acoustical Consulting Services for the Grace Park mixed use project. This was a new construction of a combination of concrete and steel construction on the first floor and wood frame construction on the second floor in a mixed use project called Grace Park containing six retail buildings. In the six buildings of the Grace Park complex, TA provided services limited to Sound Isolation recommendations between the condominium units and the retail sections of the project.

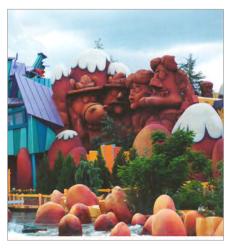
ADDITIONAL PROJECTS

- Annapolis Towne Center at Parole Annapolis, MD
- Asian Art Museum San Francisco, CA
- Atlantic Times Square Monterey Park, CA
- Burdines Aventura, FL
- Burdines Dadeland Apparel Miami, FL
- California State University at Fresno, Student Union -Fresno, CA
- Castalia at Meadowmont Chapel Hill, NC
- Del Amo Mall Torrance, CA
- Dubai Entertainment Center Dubai, UAE
- Federated Department Stores Various Cities, US
- Federated Narrowing Various Locations, US
- Foothills Mall Funderland Tucson, AZ
- Gallo Winery, Atrium Audio Modesto, CA
- Great Mall of the Bay Area Milpitas, CA

- Jewelry Mart Lobby San Francisco, CA
- Macy's East Manhasset, NY
- Macy's East Garden State Plaza Paramus, NJ
- Macy's West Antioch, CA
- Macy's West Rancho Cucamonga, CA
- Main Street at Enka Village Asheville, NC
- Microsoft at the Westfield Centre San Francisco, CA
- North Hills Shopping Center, Target Raleigh, NC
- Patrick Henry Place Newport News, VA
- Premier Retail Network San Francisco, CA
- Quantum Milpitas, CA
- Safeway Lot Line Noise Review Del Ray Oaks, CA
- Studio D San Francisco, CA
- Villages Golf & Country Club San Jose, CA Westside Pavilion - Los Angeles, CA







MALL OF AMERICA, CAMP SNOOPY Bloomington, Minnesota

One of the world's largest indoor theme parks, Camp Snoopy is an excellent example of traditional and audiovisual acoustic design requirements being implemented in diverse ways to create a unique but buildable and cost-effective project. For the original design, one of our founding principals was responsible for the complete acoustical and audiovisual systems design. Twelve years after that initial work, the new owners of the Cedar Fair Entertainment Company, asked TA to review the spray on acoustical treatment substituted during construction.

GATEWAY ARCH Saint Louis, Missouri

Located at the Jefferson National Expansion Memorial, the Gateway Arch is a historical tribute to America's westward expansion. Thorburn Associates was contacted about designing a completely new audio system to replace the existing one located inside the Arch. After 30 years of service, its performance was lacking due to obsolete components and overall wear and tear.

The end result of this project was a system which performs exactly the way the client expected and enhances the guests' visit to this popular tourist attraction.

UNIVERSAL'S ISLANDS OF ADVENTURE

Orlando, Florida

Both Toon Lagoon and the Adventures of Spiderman projects required creative acoustical design efforts. For Spiderman, we were tasked to keep the show action noise and sound effects contained from one scene to the next. For Toon Lagoon we worked with Universal Creative to develop the track list and the audio and video infrastructure requirements for the park. These themed attractions are located inside the Universal Studios Islands of Adventure Park, one of the most popular theme parks in America.

ADDITIONAL PROJECTS

- Butterfly Kingdom IMAX Hilton Head Island, SC
- Chicago Navy Pier Theater Chicago, IL
- Chiryu Street Scene Chiryu, Japan
- Coca-Cola Freedom Pavilion Tokyo, Japan
- Coca-Cola Olympic City Atlanta, GA
- COSI on the Riverfront Columbus, OH
- Fernbank Science Center Vantaa, Finland
- Hard Rock Nights in White Satin Myrtle Beach, SC
- Harvey's Kanesville Queen Riverboat Casino –
 Council Bluffs, IA
- Harvey's Casino South Lake Tahoe, NV

- Hearst Castle San Simeon, CA
- Kowloon Club Hong Kong, China
- Liberty ShowMax Theater New York, NY
- Lotte Sky Park Plaza Pusan, Korea
- Lotte World Pusan, Korea
- Mystic Marine Aquarium Mystic, CT
- National Museum of Natural Sciences 3D Theater Taichung, Taiwan
- O2b Kids! Gainesville, FL
- Universal Studios, The Adventures of Spiderman Orlando, FL







CONCORD/MARTINEZ BART Concord, California

TA evaluated the Bay Area Rapid Transit station of North Concord / Martinez, CA for base design, reviewed the installation and suggested methods of improving the existing public address system to determine ways to make the audio more intelligible.

MULTIMODAL TRANSPORTATION CENTER

Normal, Illinois

TA provided audiovisual consulting services for the Town of Normal's new Multimodal Transportation Center. The Center will be comprised of a transit area for trains, buses and taxis. The Multimodal Center is a "green" project and is being designed for LEED Certification.

MILBRAE BART Milbrae, California

provided acoustical site measurements and modeling of the public annoucement system. We computer created model of loudspeaker placement and characteristics, coverage mapping for the platform and concourse and frequency response mapping for these two areas.

ADDITIONAL PROJECTS

- Colma BART Station Colma, CA
- Edwards Air Force Base Mojave, CA
- Few Gardens Hope VI Site 2 Durham, NC
- HP San Jose Airport Hanger San Jose, CA
- RDU Airport Operation Center Raleigh-Durham, NC
- RDU General Aviation Terminal Raleigh-Durham, NC
- Richmond International Airport Terminal Expansion Richmond, VA
 - San Jose International Airport Gate C-12 San Jose, CA
 - Santa Rosa Memorial Hospital Helipad Santa Rosa, CA
 - Space Shuttle Blast Berms Cape Canaveral, FL
 - SFO BART Terminals San Francisco, CA







NEW LONDON PRESBYTERIAN New London, Pennsylvania

Provided audiovisual system design, acoustical analysis/recommendations, and developed criteria for a lighting design scheme. New London is one of the country's oldest congregations, dating back to 1726.

UNITED METHODIST CHURCH Charlotte, North Carolina

Design of speech/music reinforcement and recording/distribution systems augmented with large format visual display for a new 1200-seat sanctuary.

ST. JOHN'S EPISCOPAL Johnson City, Tennessee

Recommendations for acoustical finish materials to control reverberation and echoes while still providing the desired reverberation times for the sanctuary in keeping with the traditions of a 600-seat liturgical church with a pipe organ.

ADDITIONAL PROJECTS

- University Community Presbyterian Church Fairbanks, AK
- O'Gormon High School, Chapel Sioux Falls, SD
- Faith Lutheran Church Pleasant Hill, CA
- Fellowship Hall Wilmington, NC
- Calvary Baptist Church Wilkesboro, NC
- Christ Lutheran Church Santa Clara, CA
- First Nazareth Baptist Church Columbia, SC
- Paw Creek Presbyterian Church Charlotte, NC
- Long View Center Raleigh, NC
- First Baptist Church Mt. Pleasant, SC
- Temple Sinai Oakland, CA
- St. Patrick's Church Anchorage, AK
- Hinshaw Street Baptist Church Wilkesboro, NC
- First Unitarian Church San Jose, CA
- Woodmont United Methodist Reidsville, NC
- Hillsborough United Methodist Charlotte, NC
- Starmount Presbyterian Church Greensboro,
 NC
- Campbell Univ, Butler Chapel Buies Creek, NC
- Divine Savior Catholic Church Orangevale, CA
- First Baptist Family Life Center Raleigh, NC
- Shades Mountain Church Jefferson County, AL

- Sacramento SDA Church Sacramento, CA
- Community Chapel Williamsburg, VA
- Christ Community Church of Milpitas, Nurturing
 Life Center Milpitas, CA
- Holy Trinity Lutheran Church Chapel Hill, NC
- First United Methodist Church Santa Rosa, CA
- St. Anne's Church Memphis, TN
- First Christian Church Princeton, WV
- First Assembly of God, University Parkway –
 Winston-Salem, NC
- Real Life Church Los Angeles, CA
- University Community Presbyterian Church Fairbanks, AK
- St. Dominic Covenant San Rafael, CA
- St. Andrew's by the Sea Episcopal Church Nags Head, NC
- Cathedral of the Immaculate Conception Memphis
- Lake Forest Community Church Huntersville,
 NC
- St. Francis of Assisi San Jose, CA
- Bay Leaf Baptist Church Wake County, NC
- St. Mary's Catholic Center San Francisco, CA

THE COMPANY

Thorburn Associates (TA) is a full service Acoustical, Technology, and Lighting Design and Engineering firm.

TA was founded in 1992 by principals who have consulted on and managed more than 2000 projects.

We provide a full range of services which allow the client, architect, or end-user a single point of contact during design and construction.

Our staff is comfortable providing traditional design or design/build services and is experienced with the partnering process.

AWARDS

TA principals have received four awards from the International Communications Industries Association:

- Professional Education and Training Committee Award, 1996-97
- First Place Systems and Facilities Design, 1991, project: CSA Audiovisual Presentation Studio
- Award for Systems and Facilities Design, 1990, project: City of Fremont's Council Chambers Audiovisual Upgrade
- Educator of the Year, 2011

Themed Entertainment Association THEA Outstanding Achievement Award:

- Paramount's King's Island "Tomb Raider: The Ride" 2002
- Universal Studios "Amazing Adventures of Spiderman," 2000
- Universal Studios "Islands of Adventure," 2000
- Columbus Center of Science and Technology (COSI), audio, video and control system engineering services and acoustical design 2000

Building of America Award, 2007, Mountain View Senior Center

Northern California Region's Most Important New Construction/ Renovation, 2007, San Francisco GSA Federal Office Building

AIA Winner of Architecture and Excellence Award, 2007, Plaza Apartments

PHILOSOPHY

At TA we are both sensologists and technologists: Acoustic and lighting designs affect the senses and how someone feels within a space; Audiovisual, structured cabling, and security designs are technology-oriented and require attention to detail as well as current knowledge of the industry and where it is headed.

We are dedicated to doing whatever it takes to help make your project a success.

- Our consultants stay up-to-date on the latest technologies and develop in-house procedures to insure the quality of our work, such as custom computer programs to improve efficiency and provide quality control for redundant calculations.
- Extensive laboratory and electronic test equipment allows us to efficiently document all aspects of design.
- Simulations allow you to "hear" or "see" how your facility will look and sound before it is built.
- Our design packages are complete and require minimal clarification during the construction phase.
- Experience with the construction process provides the practical background experience necessary to recommend solutions that are both innovative and effective.
- Our level of project detail allows for true competitive bidding from installation contractors.
- Our principals take an active role throughout a project so you, our clients, get the level of quality you deserve and require.

From design through construction, TA has the experience, knowledge and technology to make your project a success.

GSA CONTRACTS

- Schedule 58: Professional Audiovisual, Telecommunications and Security Solutions
- Schedule 66: Scientific Equipment and Services

FACILITY TYPES

- Commercial and Retail Buildings
- Conference Rooms
- Educational Facilities
- Hospitals and Medical Facilities
- Hotels and Casinos
- Large Format Theatres
- Libraries and Community Centers
- Office Buildings, Research Facilities
- Places of Worship
- Presentation Facilities
- Recording, Broadcast and Post-Production Studios
- Single and Multi-Family Housing
- Training and Board Rooms
- Theme Parks and Destination Resorts

CONSULTING SERVICES

- Acoustical Engineering (Room Acoustics, Sound Isolation, Mechanical Noise / Vibration Control, Environmental Noise)
- Technology System Design (Audiovisual, Structured Cabling, Security)
- Lighting Design (Commercial, Leisure, Day-lighting, Energy Analysis)
- Expert Testimony

WBE/SBE/HUB

- Certified as a Small Business (SBE) with the State of California and the San Francisco Redevelopment Agency
- Registered as a Historically Underutilized Business with the State of North Carolina (HUB)
- Certified as a Women Owned
 Business (WBE) with the California
 Public Utilities Commission

WEB ADDRESS

www.TA-Inc.com

email to: JustAsk@TA-Inc.com

The following acoustical, technology (audiovisual, structured cabling, security), and lighting design issues are typically found or required in our work:

Architectural Room Acoustics

Conceptual and Detailed Architectural Acoustic Design

Acoustic Analysis of Existing Facilities

Speech Intelligibility

Reverberation and Clarity of Sound

Reflection, Diffusion, and Absorption of Sound

Aspect Ratios to Promote Excellent Room Acoustics

Room Finishes and Furnishings

Room Modeling

LEED Analysis and Support

Sound Isolation

Speech Privacy within Rooms

Floor/Ceiling and Wall Details to Prevent Noise

Transmission

Window, Door Selections to meet Sound Isolation

Criteria

Mitigation of Interior and Exterior Noise to Reduce

Transmission to Sensitive Spaces

Mechanical Noise and Vibration

Vibration Isolation

Industrial Noise Control

Mechanical Systems, Plumbing Systems

Ventilation Systems - Duct Rumble, Diffuser Hiss,

Rooftop Units

Control of Central Plant, Co-Generation, and Emergency

Generator Noise

Monitoring of Construction Related Noise and Vibration

Environmental Noise Abatement

Traffic Noise Studies

Highway, Aircraft, and Railroad Noise

Interior and Exterior Noise Surveys, Data Analysis, and Reporting

Community Noise Monitoring and Report

Audiovisual System Engineering

Sound System Design

Video System Design, Video Information Systems

Foreground and Background Music Systems

Video and Film Projection Systems

Facility Master Plans for Growth and Expansion

Equipment Evaluation, System Adjustment

Control System Design and Programming

Distance Learning Systems

Room Environment Control

Design of ADA Technology

SAN FRANCISCO

Digital Signage and Video Walls

Lighting System Design

Concept Development

Luminaire Layouts and Specifications

Standard and Specialty Control System Design and

Programming

Budgeting and Cost Tracking

Bidding and Negotiation

Mock-Ups

3-D Renderings and Detail Sketches

Energy Optimization

Sustainable Design

LEED and ASHRAE Support

Daylighting and Daylight Harvesting

Installation Administration

Theatre Systems Evaluation and Design

Security System Design

Vulnerability Assessments

Feasibility Studies

Master Planning

Standards Review, Development

Design and Engineering

Construction Administration

Structured Cabling Design/Information Technology

Initial structured cabling system design

Telecommunications Room Space Allocations

Power requirements/Conduit and Junction Boxes

Structured Cabling Systems Sections and Elevations

Equipment Mounting Requirements

Equipment Space Coordination

Wired and Wireless IT systems

Building Integration Technology

Web-enabled Control Systems

Construction Administration

Sound and Vibration Testing

Bid Management/Contractor Selection

Cost/Change Control

On-site Observation/Quality Control

Schedule Management

Submittal Reviews/Requests for Information

Performance Testing/Training

Expert Testimony

Construction Defects

Sound Isolation

Traffic Noise

ORLANDO

CHARLOTTE

RALEIGH-DURHAM

LOS ANGELES



EDUCATION

Michigan Technological University

B.S. Scientific and Technical

Communications

Major: Computer Science and Business

Administration

Board Room Design Course, National Systems Contractors Association, 1994

A/V Systems and Equipment course, International Communications Industries Association (ICIA), 1998

Essentials of the A/V Industry course, International Communications Industries Association (ICIA), 1998

INDUSTRY CERTIFICATIONS

USGBC: LEED AP InfoComm: CTS

PROFESSIONAL SOCIETIES

- American Institute of Architects, Affiliate Member
- Themed Entertainment Association
- Society for Marketing Professional Services
- InfoComm International
- Vistage International

AREAS OF EXPERTISE

Ms. Thorburn practices Acoustical and Technology System consulting in the following areas:

- project management
- specification preparation
- technology needs analysis
- architectural acoustics and sound
- isolation
- mechanical noise and vibration control

Ms. Thorburn has served as a project manager and consultant on numerous projects. Her background covers Multimedia Presentation Requirements, Video and Teleconferencing, Computer Programming, Technical Communications, and Project and Business Management.

Ms. Thorburn's communication skills allow her to translate technical data into a format that is both usable and understandable by the client and the rest of the design team.

During the course of a project, she typically manages the overall coordination of the design process and all related procedural information. It is her responsibility to make sure that all project milestones are achieved on time. She is also responsible for ensuring that the architect and client are kept up to date on the project schedule and facilitates communication between the members of the design team.

Her experience with Computer Programming allows her to develop both efficient and cost effective technology systems and multimedia facilities.

PUBLICATIONS and LECTURES

Ms. Thorburn frequently writes technical articles on both acoustical design and technology system design issues.

Published articles include: "China 2020: How China's Growth and Future Will Impact Business Development in the A/E/C Industry" for the SMPS Foundation and The Marketer; "Front versus Rear Projection Issues" in Sound and Communications magazine, "Acoustical Terminology" in Health Facilities Management, and "Winning the Olympic City Acoustical Event" in Teleconferencing Business.

PROFESSIONAL EXPERIENCE

Selected project experience includes:

- Adeline Training Facility Oakland, CA
- Alta Bates Medical Center Conference and Education Center – Oakland, CA
- Archbishop Mitty High School San Jose, CA
- Calaveras County Courthouse –
 Calaveras, CA
- Cesar Chavez Education Center Oakland, CA
- Contra Costa County Fire Protection Contra Costa, CA
- Convent Gathering Space San Rafael,
 CA
- Guilford N. High School Richmond, CA
- HP Facilities Services Palo Alto, CA
- HP Executive Briefing Center Cupertino, CA
- Discovery Bay Homeowners AssociationDiscovery Bay, CA
- iWERKS Cinetropolis Chiryu, Japan
- Maricopa County Community College,
 Open Ended Acoustics Agreement –
 Maricopa, CA
- North Carolina State University, Open Ended AV Agreement – Raleigh, NC
- On Lok Larkin Senior Living San Francisco, CA
- Prospect Hills, Mills College Oakland, CA
- SAP Technology Inc., Cafeteria Palo Alto, CA
- SAP Technology Inc., Executive Briefing Center – Palo Alto, CA
- Splinter Residence Granite Bay, CA
- The Learning Company Headquarters Fremont, CA
- Regional Director's Conference Room Sacramento, CA
- University of North Carolina at Chapel Hill, School of Pharmacy – Chapel Hill, NC



EDUCATION

Michigan Technological University

B.S. Electrical Engineering
Major: Electroacoustics

B.S. Liberal Arts

Major: Theatre and Lighting Design

PROFESSIONAL LICENSES

Mr. Thorburn is a registered Engineer in the following states:

AL:	P.E. 32355-E	MN:	P.E. 21338
AZ:	P.E. 34990	NC:	P.E. 25217
CA:	E.E. 13159	NM:	P.E. 20904
DC:	P.E. 906609	NV:	E.E. 021780
FL:	P.E. 73362	OH:	E.E. 65890
GA:	P.E. 036527	OR:	P.E. 669501
IL:	062-054816	SC:	P.E. 21186
IN:	P.E. 11200082	TX:	P.E. 110805
KY:	P.E. 28054	VA:	P.E. 040205027
MO:	P.E. 2012000059	WA:	P.E. 37191
MI:	P.E. 46612	WV:	P.E. 19443

INDUSTRY CERTIFICATIONS

ICIA: Certified Technology Specialist,

Design and Installation

USGBC: LEED AP

PROFESSIONAL SOCIETIES

- Acoustical Society of America
- American Institute of Architects
- Audio Engineering Society
- InfoCOMM
- Institute of Electrical and Electronic Engineers
- National Council Acoustical Consultants
- National Society of Professional Engineers

AREAS OF EXPERTISE

Mr. Thorburn practices acoustical consulting and audiovisual system design in the following areas:

- Architectural acoustics
- Mechanical noise control
- Audiovisual, sound and control systems
- Video and teleconference systems
- Security

Mr. Thorburn, as a founder of Thorburn Associates, has served as project manager and consultant on over 2900 different projects.

He is active in projects that require both acoustical engineering and technology system design services. His dual degrees from Michigan Technological University in theatre design and electrical engineering enable him to coordinate technical requirements involved in the construction bid process with practical issues required by the end-users.

His projects have included performing arts centers, recording facilities, entertainment facilities, presentation and conference facilities, government and university buildings, film and video studios, luxury hotels, libraries, churches, and medical facilities.

Mr. Thorburn was responsible for developing the International Communications Industries Association's Design Consultant's Council.

He regularly attends conferences, trade shows, and product exhibitions that allow him to recommend the most cost-effective yet functional products to meet his client's needs. Manufacturers often ask for his input on the 'next generation' of system components.

PUBLICATIONS and LECTURES

Mr. Thorburn frequently teaches seminars and lectures on both acoustical consulting and audiovisual system design. Recent topics include:

- Planning for Classroom Technology
- Presentation Facilities Design
- Surviving the Construction Process
- Acoustics in Architecture

He is also a regular contributor to industry publication, *Systems Contractor News*.

PROFESSIONAL EXPERIENCE

Projects he has managed and consulted on include:

- Arizona Mills IMAX Theatre Tucson, AZ
- Cisco Systems Executive Briefing Center,
 Santa Clara, CA
- Cold Canyon Landfill/Sort Facility, San Luis Obispo, CA
- Dempsey E. Benton & E.M. Johnson
 Water Treatment Plant Wake County,
 NC
- Durham County Justice Building Durham, NC
- Federated Department Stores Multiple Locations
- Harvey's Resort Hotel/Casino, South Lake Tahoe, NV
- Hewlett Packard Sound Masking Cupertino, CA
- Kaiser Geary Campus Medical Office Building, San Francisco, CA
- Knott's Camp Snoopy Amusement Park, Bloomington, MN
- Lockheed Martin Aeronautics CompanyPalmdale, CA
- Lotte World Seoul, Korea
- Minnesota Zoo 3-D Theatre,
 Minneapolis, MN
- New London Presbyterian Church New London, PA
- Nissan North America, Corporate
 Headquarters Franklin, TN
- UNC, Chapel Hill, Dental Science
 Building Chapel Hill, NC
- Sioux Falls Historic Courthouse and Law Library, Sioux Falls, S.D.
- Stanford University Graduate School of Business, Stanford, CA
- Sutter Medical Center, Sacramento Sacramento, CA
- Wachovia Bank Charlotte, NC
- Wilmington Convention Center –
 Wilmington, NC
- University of Illinois, Various Projects Urbana, IL



GREENBRIDGE



CAMP SNOOPY



HEALTHCARE

BARTLETT





BAYLOR SCHOOL OF BUSINESS



ST. JOHN'S CHURCH



HOTEL RAY



MACY'S



TURNBERRY



SF GSA BUILDING



DUKE ENERGY TOWER



NCSU CATES STEAM PLANT

SAN FRANCISCO LOS ANGELES ORLANDO CHARLOTTE **RALEIGH-DURHAM**

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