

**University of South Carolina
Columbia, South Carolina**

Project Manual for USC – School of Music Fire Alarm Upgrades

Project Number: CP00382044

September 19, 2013

TABLE OF CONTENTS

Project Name: School of Music -Fire Alarm Upgrade

Project Number: CP00382044

<u>Section</u>	<u>Number of Pages</u>
Table of Contents	1
Invitation for Minor Construction Quotes (SE-311 –2011 Edition)	2
Standard Bid Quote (SE-331- 2011 Edition)	1
USC Supplemental General Conditions for Constructions Projects	3
Contractor’s One-Year Guarantee	1
Certificate Regarding Illegal Immigration (November 2008)	1
Certificate of Independent Price Determination	1
Income Tax Credit	1
Specifications	2

SE-311 Invitation for Minor Construction Quotes

SCBO NOTES 2, 4 and 5 APPLY TO THIS INVITATION FOR QUOTES

PROJECT NAME: USC-School of Music Fire Alarm Upgrades

PROJECT NUMBER: CP00382044 PROJECT LOCATION: Columbia, SC

BID SECURITY REQUIRED? Yes No

PERFORMANCE BOND REQUIRED? Yes No

PAYMENT BOND REQUIRED? Yes No CONSTRUCTION COST RANGE: >\$50,000

DESCRIPTION OF PROJECT:
Furnish, Install and test fire alarm system components at the School of Music. Warranty must be provided on all parts.

A/E NAME: University of South Carolina A/E CONTACT: Peter Fisher
 ADDRESS: 743 Greene Street PHONE: 803-777-9346 Fax: 803-777-7334
 CITY: Columbia STATE: sc ZIP: 29208 E-MAIL: pfisher@sc.edu

PLANS ON FILE AT: AGC: _____
 DODGE: _____
 OTHER: _____

PLANS MAY BE OBTAINED FROM: http://purchasing.sc.edu

PLAN DEPOSIT AMOUNT: \$0.00 IS DEPOSIT REFUNDABLE? Yes No

PRE-QUOTE CONFERENCE? Yes No MANDATORY ATTENDANCE? Yes No

DATE: 09/26/13 TIME: 11:00am PLACE: 743 Greene Street Columbia, SC

AGENCY: University of South Carolina

NAME AND TITLE OF AGENCY COORDINATOR: Michelle Adams

ADDRESS: 743 Greene Street PHONE: 803-777-0981 Fax: 803-777-7334

CITY: Columbia STATE: SC ZIP: 29208 E-MAIL: mdadams@fmc.sc.edu

IFQ CLOSING DATE: 10/03/13 TIME: 3:00pm LOCATION: 743 Greene Street, Columbia, SC

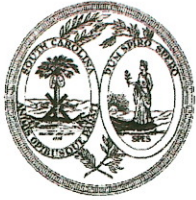
IFQ DELIVERY ADDRESSES:

HAND-DELIVERY:
743 Greene Street, Columbia, SC 29208

MAIL SERVICE:
743 Greene Street
Columbia, SC 29208

IS PROJECT WITHIN AGENCY CONSTRUCTION CERTIFICATION? (Agency MUST check one) YES NO

APPROVED BY: _____ (State Engineer) _____ (Date)



SE-331
Quote Form

2008 Edition

Quotes shall be submitted only on SE-331

QUOTE SUBMITTED BY: (Offeror's Name)

QUOTE SUBMITTED TO: (Agency Name)

FOR PROJECT: CP00382044 School of Music- Fire Alarm Upgrades
(Number) (Name)

(Agency Project No.)

OFFER

1. In response to the Form SE-311, Request for Minor Construction Quotes, and in compliance with the Instructions to Bidders for the above-named Project, the undersigned OFFEROR proposes and agrees, if this Quote is accepted, to enter into a Contract with the AGENCY in the form included in the Solicitation Documents, and to perform all Work as specified or indicated in the Solicitation Documents, for the prices and within the time frames indicated in the Solicitation and in accordance with the other terms and conditions stated.

2. Pursuant to Section 11-32-3030(1) of the SC Code of Laws, as amended, OFFEROR has submitted Bid Security as follows in the amount and form required by the Solicitation Documents:

- Bid Bond with Power of Attorney Electronic Bid Bond Cashier's Check
(OFFEROR check one, if Bid Security is required)

3. OFFEROR acknowledges the receipt of the following Addenda to the Solicitation documents and has incorporated the effects of said Addenda into its Quote:

ADDENDUM No:

4. OFFEROR agrees that this Quote, including all bid alternates, if any, may not be revoked or withdrawn after the opening of bids, and shall remain open for acceptance for a period of 60 Days following the Quote Date, or for such longer period of time that OFFEROR may agree to in writing upon request of the AGENCY.

5. OFFEROR agrees that from the compensation to be paid, the AGENCY shall retain as Liquidated Damages the amount of for each calendar day the actual construction time required to achieve Substantial Completion exceeds the specified or adjusted Contract Time for Substantial Completion, as provided in the Contract Documents.

6. OFFEROR herewith submits its offer to provide all labor, materials, equipment, tools of trades and labor, accessories, appliances, warranties and guarantees, and to pay all royalties, fee, permits, licenses and applicable taxes necessary to complete the following items of construction work:

6.1 BASE BID (enter BASE BID in figures only)

6.2 ALTERNATE NO. 1 to be ADDED/DEDUCTED from BASE BID. (circle one)

6.3 ALTERNATE NO. 2 to be ADDED/DEDUCTED from BASE BID. (circle one)

FEIN/SSN:

SC Contractor's License Number:

Address:

Telephone/Fax

E-mail

This Quote is hereby submitted on behalf of the Offeror named above.

BY: (Signature of Offeror's Representative)

(Print or Type Name of Offeror's Representative)

ITS:

USC SUPPLEMENTAL GENERAL CONDITIONS
FOR CONSTRUCTION PROJECTS

1. Contractor's employees shall take all reasonable means not to interrupt the flow of student traffic in building corridors, lobbies and stairs. All necessary and reasonable safety precautions shall be taken to prevent injury to building occupants while transporting materials and equipment through the building to the work area. Providing safe, accessible, plywood pedestrian ways around construction may be required if a suitable alternative route is not available.
2. Fraternalization between Contractor's employees and USC students, faculty or staff is strictly prohibited-zero tolerance!
3. USC will not tolerate rude, abusive or degrading behavior on the job site. Heckling and cat-calling directed toward students, faculty or staff or any other person on USC property is strictly prohibited. Any contractor whose employees violate this requirement will be assessed a fine of up to \$500 per violation.
4. Contractor's employees must adhere to the University's policy of maintaining a drug-free and smoke-free/tobacco free workplace.
5. Contractor must sign a Contractor Key Receipt/Return form before any keys are issued. Keys must be returned immediately upon the completion of the work. The Contractor will bear the cost of any re-keying necessary due to the loss of or failure to return keys.
6. A welding permit must be issued by the University Fire Marshall before any welding can begin inside a building. Project Manager will coordinate.
7. Contractor must notify the University immediately upon the discovery of suspect material such as those potentially containing asbestos or other such hazardous materials. These materials **must not** be disturbed until approved by the USC Project Manager.
8. At the beginning of the project, the USC Project Manager will establish the Contractor's lay-down area. This area will also be used for the Contractor's work vehicles. No personal vehicles will be allowed in this area, or in any areas surrounding the construction site that are not regular or authorized parking lots. Personal vehicles must be parked in the perimeter parking lots. Parking permits can be obtained at the USC Parking Office located in the Pendleton Street parking garage. The lay down area will be clearly identified to the contractor by the PM, with a sketch or drawing provided to Parking. In turn, the contractor will mark off this area with a sign containing the project name, PM name, Contractor name and contact number, and end date. Where this area is subject to foot traffic, protective barriers will be provided as specified by the PM. The area will be maintained in a neat and orderly fashion. Vehicles parked in the lay down area (or designated parking areas) will be clearly marked or display a CPC furnished placard for identification.

9. Contractor will be responsible for providing its own temporary toilet facilities, unless prior arrangements are made with the USC Project Manager.
10. Use of USC communications facilities (telephones, computers, etc.) by the Contractor is prohibited, unless prior arrangements are made with the USC Project Manager.
11. For all projects over \$100,000, including IDC's, an SE-395, Contractor Performance Evaluation, will be completed by the USC Project Manager and reviewed with the GC at the beginning of the project and a copy given to the GC. At the end of the project the form will be completed and a Construction Performance rating will be established.
12. Contractor is responsible for removal of all debris from the site, and is required to provide the necessary dumpsters which will be emptied at least One times per week. Construction waste must not be placed in University dumpsters. THE CONSTRUCTION SITE MUST BE THOROUGHLY CLEANED WITH ALL TRASH PICKED UP AND PROPERLY DISPOSED OF ON A DAILY BASIS AND THE SITE MUST BE LEFT IN A SAFE AND SANITARY CONDITION EACH DAY. THE UNIVERSITY WILL INSPECT JOB SITES REGULARLY AND WILL FINE ANY CONTRACTOR FOUND TO BE IN VIOLATION OF THIS REQUIREMENT AN AMOUNT OF UP TO \$1,000 PER VIOLATION.
13. **Contractor must provide all O&M manuals, as-built drawings, and training of USC personnel on new equipment, controls, etc. prior to Substantial Completion. Final payment will not be made until this is completed.**
14. The contractor will comply with all regulations set forth by OSHA and SCDHEC. Contractor must also adhere to USC's internal policies and procedures (available by request). As requested, the contractor will submit all Safety Programs and Certificates of Insurance to the University for review.
15. Tree protection fencing is required to protect existing trees and other landscape features to be preserved within a construction area. The limits of this fence will be evaluated for each situation with the consultant, USC Arborist and USC Project Manager. The tree protection fence shall be 5' high chain link fence unless otherwise approved by USC Project Manager. No entry or materials storage will be allowed inside the tree protection zone. A 4" layer of mulch shall be placed over the tree protection area to maintain moisture in the root zone.
16. Where it is necessary to cross walks, tree root zones (i.e., under canopy) or lawns the following measures shall be taken: For single loads up to 9,000 lbs., a 3/4" minimum plywood base shall be placed over areas impacted. For single loads over 9,000 lbs., two layers of 3/4" plywood is required.
17. For projects requiring heavy loads to cross walks tree root zones or lawns. A construction entry road consisting of 10' X 16' oak logging mates on 12" coarse, chipped, hardwood base. Mulch and logging mats shall be supplemented throughout the project to keep

matting structurally functional.

18. Any damage to existing landscaping (including lawn areas) will be remediated before final payment is made.
19. Orange safety fence to be provided by the contractor. (USC Arborist, Kevin Curtis may be contacted at 777-0033 or 315-0319)

Campus Vehicle Expectations

1. All motorized vehicles on the University campus are expected to travel and park on roadways and/or in parking stalls.
2. All motorized vehicle traffic on USC walkways must first receive the Landscape Manager=s authorization. Violators may be subject to fines and penalties.
3. All motorized vehicles that leak or drip liquids are prohibited from traveling or parking on walks or landscaped areas.
4. Contractors, vendors, and delivery personnel are required to obtain prior parking authorization before parking in a designated space. Violators may be subject to fines and/or penalties. See Item 10 below.
5. Drivers of equipment or motor vehicles that damage university hardscape or landscape will be held personally responsible for damages and restoration expense.
6. Vehicle drivers who park on landscape or drives must be able to produce written evidence of need or emergency requiring parking on same.
7. All vehicles parked on landscape, hardscape, or in the process of service delivery, must display adequate safety devices, i.e. flashing lights, cones, signage, etc.
8. All drivers of equipment and vehicles will be respectful of University landscape, equipment, structures, fixtures and signage.
9. All incidents of property damage will be reported to Parking Services or the Work Management Center.
10. Parking on campus is restricted to spaces designated by Parking Services at the beginning of the project. Once the project manager and contractor agree on how many spaces are needed, the project manager will obtain a placard for each vehicle. This placard must be hung from the mirror of the vehicle, otherwise a ticket will be issued and these tickets cannot be "fixed". Parking spaces are restricted to work vehicles only; no personal vehicles.

Project Name: School of Music – Fire Alarm Upgrades

Project Number: CP00382004

University of South Carolina

CONTRACTOR'S ONE YEAR GUARANTEE

STATE OF _____

COUNTY OF _____

WE _____
as General Contractor on the above-named project, do hereby guarantee that all work executed under the requirements of the Contract Documents shall be free from defects due to faulty materials and /or workmanship for a period of one (1) year from date of acceptance of the work by the Owner and/or Architect/Engineer; and hereby agree to remedy defects due to faulty materials and/or workmanship, and pay for any damage resulting wherefrom, at no cost to the Owner, provided; however, that the following are excluded from this guarantee;

Defects or failures resulting from abuse by Owner.

Damage caused by fire, tornado, hail, hurricane, acts of God, wars, riots, or civil commotion.

[Name of Contracting Firm]

*By _____

Title _____

*Must be executed by an office of the Contracting Firm.

SWORN TO before me this _____ day of _____, 2____ (seal)

_____ State

My commission expires _____

**CERTIFICATION REGARDING ILLEGAL IMMIGRATION
(NOVEMBER 2008)**

(An overview is available at www.procurement.sc.gov)

By signing your bid, the contractor certifies that you will comply with the applicable requirements of Title 8, Chapter 14 of the South Carolina Code of Laws and agree to provide to the State upon request any documentation required to establish either: (a) that Title 8, Chapter 14 is inapplicable to you and your subcontractors or sub-subcontractors; or (b) that you and your subcontractors or sub-subcontractors are in compliance with Title 8, Chapter 14. Pursuant to Section 8-14-60, "A person who knowingly makes or files any false, fictitious, or fraudulent document, statement, or report pursuant to this chapter is guilty of a felony and, upon conviction, must be fined within the discretion of the court or imprisoned for not more than five years, or both." You agree to include in any contracts with your subcontractors language requiring your subcontractors to (a) comply with the applicable requirements of Title 8, Chapter 14, and (b) include in their contracts with the sub-subcontractors language requiring the sub-subcontractors to comply with the applicable requirements of Title 8, Chapter 14.

INCOME TAX CREDIT!!

Reference: SC §12-6-3350 – Income Tax Credit for State Contractors Having Subcontracts with MINORITY Firms

Taxpayers, who utilize certified minority subcontractors, may take a tax credit equal to 4% of the payments they make to said subcontractors. The payments claimed must be based on work performed directly for a South Carolina state contract. The credit is limited to a maximum of \$50,000 annually. A taxpayer is eligible to claim the credit for 10 taxable years beginning with the taxable year in which the credit is first claimed. After the above 10 taxable years, the taxpayer is no longer eligible for the credit regardless of whether or not the taxpayer claimed the credit in a year subsequent to the year in which the credit was first claimed.

The credit may be claimed on Form TC-2, "Minority Business Credit." A copy of the subcontractor's certificate from the Governor's Office of Small and Minority Business (OSMBA) is to be attached to the contractor's income tax return. Taxpayers must maintain evidence of work performed for a State contract by the minority subcontractor.

Questions regarding the tax credit and how to file are to be referred to:

SC Department of Revenue
Research and Review
Phone: (803) 898-5786
FAX: (803) 898-5888

References: SC §11-35-5010 – Definition for Minority Subcontractor
SC §11-35-5230 (B) – Regulations for Negotiating with State
Minority Firms

The subcontractor must be certified as to the criteria of a "Minority Firm" by the Governor's Office of Small and Minority Business Assistance (OSMBA). Certificates are issued to subcontractors upon successful completion of the certification process. Questions regarding subcontractor certification are to be referred to:

Governor's Office of Small and
Minority Business Assistance
Phone: (803) 734-0657
FAX: (803) 734-2498

Requested FA Upgrade for School of Music

- Upgrade the current FACP from the existing FCI-D to a Gamewell FCI E3 panel.
- The E3 panel will include an internal dialer.
- The E3 panel will include an ASM16 board for push button disable features.
- Install a new annunciator where the current annunciator is located (back entrance loading dock). Basic annunciator, not a graphic annunciator.
- Replace 306 smoke detector (Heads Only)
- Replace 9 duct detector (Smoke Heads Only)
- Replace 17 heat detectors (Heads Only)
- Replace 15 pull stations
- Replace 5 tamper modules
- Replace 5 flow modules
- 100% test of the fire alarm system and provide a testing report

When preparing your quotes please allow for 5-10% of devices that may not be included in the attached inspection report.

Installer shall be an FCI certified vendor with programming capabilities utilizing FCI proprietary software.

Upon taking the existing fire alarm system out of operation, Contractor shall have five (5) calendar days to complete the installation and programming, at which time Contractor will be required to post a Fire Watch until the new system is installed, programmed and fully operational. Fire Watch is not required to be posted during the testing phase.

FIRE ALARM INSPECTION REPORT PER NFPA 72



6 Woodcross Drive
 Columbia, SC 29212
 Phone: (803) 407-0747
 Fax: (803) 407-0779
 Florence Office (843) 664-8811 - Augusta, GA Office: (706) 722-4464

SC Fire Alarm License # FAC 3282
 GA Low Voltage/Fire Alarm License # LVA205486

Project/Site Information

Property Name: School of Music Project #: 203518
 Customer Name: USC Date: 9/20/2012
 Address: _____ Time: _____
 City, St, ZIP: _____
 Phone Number: _____

Introduction

Thank you for choosing TriTek Fire & Security, LLC for your Fire Alarm Inspection Services. The following pages will list your system and the status of all devices, ie: Pull Stations, Smoke, Heat & Duct Detectors. We will electronically test your Sprinkler system, AHU shutdown, and Elevator Recall. A quote will be provided for your repair work.

This inspection form meets all requirements of NFPA 72, 2002 and 2007 editions.

THIS TESTING WAS PERFORMED IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS.

Inspector: Dave Miller

Owner or Representative: _____

Signature:

Signature: _____

Panel Manufacture

Manufacture: FCI
 Model Number: D-A
 Date of last service: _____
 Date of Software change: _____

Power Source

Breaker Location: Unknown
 Breaker Panel: _____
 Breaker Number: _____

Trouble Conditions Tested:

SLC Loop Trouble: Pass
 Zone Loop Trouble: N/A
 Signal Circuit Trouble: Pass
 AC/OP Power Loss: Pass
 Earth Ground: Pass

Monitoring Entity:

Company Name: USC Police
 Type of Monitoring: Digital
 Account Number: 433
 Phone Number: _____
 Operator Number: _____

Elevator Recall

Number of Elevators: 4
 Elevator Primary Recall: Fail
 Elevator Alternate Recall: Fail
 Elevator Firemans Hat: N/A
 Elevator Shunt Trip: Fail

Alarm Verification

Received Alarm: Pass
 Alarm Restore: Pass
 Received Trouble: Pass
 Received Supervisory: Pass
 Supervisory Restore: Pass

HVAC

HVAC Shutdown: Pass
 Number of Units: 9

Remote Annunciators

Type: LCD
 Quantity: 1
 Annunciator Operation: Pass

Comments: _____

FACP / NAC Panels

Type	Panel #	Manufacturer	Model	Location	# of Ckts	Class
FACP	1	FCI	D-A	SB Electric Room	4	B
Dialer	2	Ademco		SB Electric Room	4	B

FIRE ALARM INSPECTION REPORT PER NFPA 72

Project/Site Information

Property Name: School of Music	Project #: 203518
Customer Name: USC	Date: 9/20/2012
Address:	Time:
City, St, ZIP:	
Phone Number:	

Secondary Power

Panel	VDC w/ charger	VDC w/o charger	Battery #	Amp HR	Battery Voltage	Load Test	Pass/Fail	Comments
1	26.94	26.93	1	18AH	13.4	100%	Pass	
1	26.94	26.93	2	18AH	13.5	100%	Pass	
2	13.41	13.39	1	7.5AH	13.39	20%	Fail	acid leak
2								

Alarm Initiating Devices

Device	Total #	# Tested	# Failed
Pull Stations	15	15	
Photo Smoke Detectors	306	298	9
Ionization Detector			
Duct Detectors	9	9	
Heat Detectors	17	9	3
Beam Detectors			
Stand Alone Smoke Detector			
Carbon Monoxide Detector			
Gas Detector			
Smoke/Heat Detector			
Gas/Smoke Detector			
Damper			
Smoke/Fire Door			
Tamper Switch	5	5	
Flow, Pressure Switch	5	5	
PIV Switches			
Modules (MM, RM, CM, Hood)			
Call Station			
Door Holder	6	6	
Supervisory			

Notification Devices

Device	Total #	# Tested	# Failed
Horn / Strobe:	47	47	
Chime / Strobe:			
Speaker / Strobe:			
Horn Only:	18	18	
Strobe Only:	19	19	
Chime Only:			
Speaker Only:			
Bell Only:			
Firemans Phone:			
Sounder Base:			

See Device Testing Summary page for Individually Tested Devices / Status & Location

Inspection Frequency:	
Weekly	<input type="checkbox"/>
Monthly	<input type="checkbox"/>
Quarterly	<input type="checkbox"/>
Semiannually	<input type="checkbox"/>
Annually	<input checked="" type="checkbox"/>

Notifications that testing is complete:			Yes	No
Building Management	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Monitoring Agency	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Building Occupants	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Other (Specify)	<input type="checkbox"/>	<input type="checkbox"/>		

Comments:

FIRE ALARM INSPECTION REPORT PER NFPA 72

Project/Site Information

Property Name: School of Music	Project #: 203518
Customer Name: USC	Date: 9/20/2012
Address:	Time:
City, St, ZIP:	
Phone Number:	

Abbreviations:

INITIATION DEVICES: MP = Manual Pull Station, PD = Photo Smoke Detector, ID = Ionization Smoke Detector, DD = Duct Smoke Detector, FT = Fixed Temp Heat Detector, RR = Rate of Rise Heat Detector, FD = Flame Detector, BD = Beam Detector, SA = Stand Alone Smoke Detector, CX = Carbon Monoxide Detector, GD = Gas Detector, CG = Combo Gas/Smoke Detector, SH = Smoke/Heat Detector, DP = Damper, SF = Smoke/Fire Door, TS = Tamper Switch, FS = Flow Switch, PS = PSI Sprinkler, PI = Post Indicator Valve, MM = Monitor Module, RM = Relay Module, CM = Control Module, HS = Hood Suppression, CS = Call Station, DH = Door Holder, SU = Supervisory, FP = Firephone

NOTIFICATION DEVICES: AV = Audio/Visual, VO = Visual Only, SV = Speaker/Strobe, CV = Chime/Strobe, HO = Horn Only, CO = Chime Only, SP = Speaker, BO = Bell Only, SB = Sounder Base

Pass / Fail Summary

Device Location	Address	Type	Pass	Fail	Comments
By Room 324	S4,49	PD	✓		
By Room 326		HO	✓		
By Room 326		VO	✓		
By Room 326	S4,50	PD	✓		
By Room 328	S4,51	PD	✓		
By Room 329	S4,52	PD	✓		
By Room 331		HO	✓		
By Room 331		VO	✓		
By Room 333	S4,54	PD	✓		
By Room 335	S4,55	PD	✓		
By Room 336		HO	✓		
By Room 336		VO	✓		
By Room 336	S4,56	PD	✓		
Near Room 337	S4,59	PD	✓		
Near Room 307	M4,01	MP	✓		
Near Room 307		AV	✓		
3rd Flr. Elev. 3 Lobby	S4,05	PD		✓	Did not recall
3rd Flr. Elev. 3 Lobby		AV	✓		
By Room 314		HO	✓		
By Room 314		VO	✓		
3rd Flr. Elev. 1 Lobby		AV	✓		
3rd Flr. Elev. 1 Lobby	S4,16	PD	✓		
3rd Flr. Mens RR		AV	✓		
3rd Flr. Womens RR		AV	✓		
Near Room 303		AV	✓		
Near Room 303	M4,02	MP	✓		
Near Room 204	M3,03	MP	✓		
Near Room 204		AV	✓		
2nd Flr. Mens RR		AV	✓		
2nd Flr. Womens RR		AV	✓		
Near Room 201		DH	✓		
Near Room 201		DH	✓		
2nd Flr. Elev. 1 Lobby		PD		✓	Did not recall
2nd Flr. Elev. 1 Lobby		MP	✓		
2nd Flr. Elev. 1 Lobby		AV	✓		
Exit at Loading Dock	M1,02	MP	✓		
Roof Mech Room		FT	✓		
Roof Mech Room AHU-3		DD	✓		
By Room 222	S3,26	PD	✓		
By Room 222		HO	✓		
By Room 222		VO	✓		

By Room 224	S3,25	PD	✓		
By Room 226	S3,24	PD	✓		
By Room 227		HO	✓		
By Room 227		VO	✓		
By Room 228	S3,27	PD	✓		
Near Room 229	S3,23	PD	✓		
Near Room 229		HO	✓		
Near Room 229		VO	✓		
By Room 230	S3,22	PD	✓		
Near Room 231	S3,21	PD	✓		
By Room 210	M3,01	MP	✓		
By Room 210		AV	✓		
2nd Flr. Elev. 3 Lobby		PD		✓	Did not recall
2nd Flr. Elev. 3 Lobby		AV	✓		
By Room 214		HO	✓		
By Room 214		VO	✓		
By Room 217		HO	✓		
By Room 217		VO	✓		
Library Near Return Desk	S3,45	PD	✓		
Room 208		AV	✓		
Room 208	S3,44	PD	✓		
Room 208	S3,43	PD	✓		
Room 208	S3,42	PD	✓		
Room 208	S3,41	PD	✓		
Room 208		AV	✓		
Room 208E	S3,48	PD	✓		
Room 208E		PD	✓		
Room 208C	S3, 51	PD	✓		
Room 208C	S3,50	PD	✓		
Room 208B	S3,47	PD	✓		
Library 3rd Flr.	S4,74	PD	✓		
Library 3rd Flr.	S4,71	PD	✓		
Library 3rd Flr.	S4,69	PD	✓		
Library 308A	S4,75	PD	✓		
Room 208A	S3,46	PD	✓		
3rd Flr. Library	S4,67	PD	✓		
3rd Flr. Library	S4,68	PD	✓		
3rd Flr. Library	S4,70	PD	✓		
3rd Flr. Library	S4,72	PD	✓		
3rd Flr. Library	S4,73	PD	✓		
Room 209		AV	✓		
Room 209	S3,38	PD	✓		
Room 209	S3,37	PD	✓		
Room 209	S3,39	PD	✓		
Room 209	S3,40	PD	✓		
Room 209	S3,36	PD	✓		
By Room 114	M2,01	MP	✓		
By Room 114		AV	✓		
By Room 114	S2,62	PD	✓		
By Room 116	S2,63	PD	✓		
1st Flr. Elev. 1 Lobby	S2,56	PD	✓		
1st Flr. Elev. 1 Lobby		AV	✓		
1st Flr. Mens RR		AV	✓		
1st Flr. Womens RR		AV	✓		
By Room 106		HO	✓		
By Room 106		VO	✓		
By Room 106	S2,55	PD	✓		
By 105	S2,54	PD	✓		
Exit by 105	M2,02	MP	✓		

1st Flr. Lobby		DH	✓	
1st Flr. Lobby		DH	✓	
1st Flr. Lobby		DH	✓	
1st Flr. Lobby		DH	✓	
1st Flr. Lobby	M2,04	MP	✓	
Office 101	S2,16	PD	✓	
Office 101		AV	✓	
101B	S2,33	PD	✓	
101D	S2,32	PD	✓	
101D		HO	✓	
101D		VO	✓	
By 101G	S2,31	PD	✓	
By 123	S2,30	PD	✓	
By 122		HO	✓	
By 122		VO	✓	
By 121	S2,29	PD	✓	
By 117E	S2,08	PD	✓	
By 117E		AV	✓	
By 117C	S2,06	PD	✓	
117C	S2,07	PD	✓	
Room 115		AV	✓	
Room 115	S2,03	PD	✓	
Room 115	S2,04	PD	✓	
Room 115	S2,02	PD	✓	
Room 115	S2,01	PD	✓	
By Room 4		AV	✓	
By Room 4	M1,12	MP	✓	
Basement Mens RR		AV	✓	
Basement Womens RR		AV	✓	
Basement Elev. 1 Lobby	S1,78	PD	✓	
Basement Elev. 1 Lobby		AV	✓	
By Room 37		HO	✓	
By Room 37		VO	✓	
By Room 30		HO	✓	
By Room 30		VO	✓	
By Room 17	S1,70	PD	✓	
By Room 24		HO	✓	
By Room 24		VO	✓	
Basement Elev. 3 Lobby	S2,80	PD	✓	Did not recall
Basement Elev. 3 Lobby		AV	✓	
Exit Near 22		AV	✓	
By Room 230	S2,81	PD	✓	
By Room 56	S4,41	PD	✓	
By Room 60	S1,58	PD	✓	
By Room 60		HO	✓	
By Room 55		HO	✓	
By Room 55		VO	✓	
By Room 53	S1,57	PD	✓	
Near Room 52	S2,97	PD	✓	
By Room 52	M1,03	MP	✓	
By Room 66	S1,56	PD	✓	
By Room 49		HO	✓	
By Room 49		VO	✓	
By Room 47	S1,55	PD	✓	
By Room 44	S1,54	PD	✓	
By Room 41	S1,53	PD	✓	
By Room 41		AV	✓	
Sub Basement at Cages	M2,10	MP	✓	
Sub Basement at Cages		AV	✓	

Sub Basement at Cages	S2,94	PD	✓		
Sub Basement at Cages	S2,95	PD	✓		
Sub Basement at Cages	S2,96	PD	✓		
Sub Basement at Cages	S2,93	PD	✓		
Sub Basement Elev. Lobby	S2,85	PD		✓	Did not recall
By S104	M3,11	MP	✓		
By FACP		FT	✓		
By FACP		AV	✓		
Room 22	S2,68	PD	✓		
Room 22	S2,67	PD	✓		
Room 22		AV	✓		
Room 21	S2,75	PD	✓		
Room 20	S2,72	PD	✓		
Room 19	S2,73	PD	✓		
Room 19	S2,74	PD	✓		
Room 19		AV	✓		
Room 19	S2,79	PD	✓		
Room 18	S1,66	PD	✓		
Room 17	S1,67	PD	✓		
Room 15	S1,63	PD	✓		
Room 14	S1,65	PD	✓		
Room 13	S1,64	PD	✓		
Room 11	S1,61	PD	✓		
Room 9	S1,60	PD	✓		
Room 8	S1,68	PD	✓		
Room 7	S1,69	PD	✓		
Room 5		PD	✓		
Room 38	S1,52	PD	✓		
Room 37	S1,51	PD	✓		
Room 36	S1,50	PD	✓		
Room 34	S1,48	PD	✓		
Room 32	S1,46	PD	✓		
Room 31	S1,45	PD	✓		
Room 29	S1,43	PD	✓		
Room 26	S2,84	PD	✓		
Room 25	S2,83	PD	✓		
Room 24	S2,82	PD	✓		
Room 62	S1,38	PD	✓		
Room 64	S1,36	PD	✓		
Room 65	S1,34	PD	✓		
Room 66	S1,33	PD		✓	Hanging by wires, not mounted
Room 73	S1,26	PD	✓		
Room 74	S1,25	PD	✓		
Room 75	S1,24	PD	✓		
Room 76	S1,23	PD	✓		
Room 41	S1,20	PD	✓		
Room 42	S1,19	PD	✓		
Room 43	S1,18	PD	✓		
Room 39	S1,92	PD	✓		
Room 48	S1,13	PD	✓		
Room 56	S1,05	PD	✓		
Room 104	S2,53	PD	✓		
Room 106	S2,52	PD	✓		
Room 106	S2,51	PD	✓		
Room 106		AV	✓		
Room 101E	S2,21	PD	✓		
Room 101E	S2,22	PD	✓		
Room 101i	S2,13	PD	✓		
Room 101J	S2,12	PD	✓		

Room 101D	S2,20	PD	✓	
Room 101C	S2,19	PD	✓	
Room 101K	S2,15	PD	✓	
Room 101L	S2,14	PD	✓	
Room 101B	S2,18	PD	✓	
Room 101A	S2,17	PD	✓	
Room 123	S2,23	PD	✓	
Room 122	S2,24	PD	✓	
Room 117E	S2,27	PD	✓	
Room 118	S2,09	PD	✓	
Room 117D	S2,28	PD	✓	
Room 114	S2,39	PD	✓	
Room 114	S2,38	PD	✓	
Room 114	S2,37	PD	✓	
Room 114	S2,36	PD	✓	
Room 114	S2,35	PD	✓	
Room 114		AV	✓	
Room 114A	S2,66	PD	✓	
Room 114B	S2,34	PD	✓	
Room 116	S2,05	PD	✓	
Room 113	S2,40	PD	✓	
Room 113		AV	✓	
Room 112	S2,41	PD	✓	
Room 112		AV	✓	
Room 112A	S2,42	PD	✓	
Room 111	S2,43	PD	✓	
Room 119	S2,10	PD	✓	
Room 124	S2,11	PD	✓	
Room 109	S2,46	PD	✓	
Room 108	S2,48	PD	✓	
Room 57	S1,04	PD	✓	
Room 58	S1,03	PD	✓	
Room 59		AV	✓	
Room 60	S1,39	PD	✓	
Room 61	S1,40	PD	✓	
Room 35	S1,49	PD	✓	
Room 33	S1,47	PD	✓	
Room 30	S1,44	PD	✓	
Room 28	S1,42	PD	✓	
Room 27	S1,35	PD	✓	
Room 44	S1,17	PD	✓	
Room 45	S1,16	PD	✓	
Room 46	S1,15	PD	✓	
Room 47	S1,14	PD	✓	
Room 49	S1,12	PD	✓	
Room 50	S1,11	PD	✓	
Room 52		PD	✓	
Room 53	S1,08	PD	✓	
Room 54	S1,07	PD	✓	
Room 55	S1,06	PD	✓	
Room 63	S1,37	PD	✓	
Room 67	S1,32	PD	✓	
Room 68	S1,31	PD	✓	
Room 69	S1,30	PD	✓	
Room 70	S1,29	PD	✓	
Room 71	S1,28	PD	✓	
Room 72	S1,27	PD	✓	
Room 107	S2,49	PD	✓	
Room 107	S2,50	PD	✓	

Room 107		AV	✓
Room 108 Storage	S2,47	PD	✓
Room 120	S2,26	PD	✓
Room 121	S2,25	PD	✓
Room 110	S2,44	PD	✓
Room 110		VO	✓
Room 201	S3,12	PD	✓
Room 221	S3,11	PD	✓
Room 222	S3,10	PD	✓
Room 223	S3,09	PD	✓
Room 224	S3,08	PD	✓
Room 225	S3,07	PD	✓
Room 226	S3,06	PD	✓
Room 227	S3,05	PD	✓
Room 217	S3,16	PD	✓
Room 228	S3,04	PD	✓
Room 229	S3,03	PD	✓
Room 230	S3,02	PD	✓
Room 231	S3,01	PD	✓
Room 232	S3,31	PD	✓
Room 232	S3,32	PD	✓
Room 232		AV	✓
Room 210	S3,28	PD	✓
Room 210	S3,29	PD	✓
Room 210		AV	✓
Room 211	S3,33	PD	✓
Room 212	S3,34	PD	✓
Room 213	S3,20	PD	✓
Room 213		AV	✓
Room 214	S3,19	PD	✓
Room 214		AV	✓
Room 215	S3,18	PD	✓
Room 215		AV	✓
Room 216	S3,17	PD	✓
Room 218	S3,15	PD	✓
Room 219	S3,14	PD	✓
Room 220	S3,13	PD	✓
Room 206		AV	✓
Room 321	S4,43	PD	✓
Room 320	S4,44	PD	✓
Room 319	S4,45	PD	✓
Room 318	S4,46	PD	✓
Room 317	S4,47	PD	✓
3rd Flr. Recital Storage	S4,78	PD	✓
Room 304	S4,21	PD	✓
Room 308	S4,07	PD	✓
By 309 Plenum	S4,08	PD	✓
By 311 Plenum	S4,09	PD	✓
By 313 Plenum	S4,10	PD	✓
By 314 Plenum		PD	✓
By 316 Plenum		PD	✓
By 318 Plenum		PD	✓
By 319 Plenum		PD	✓
Near 319 Plenum	S4,41	PD	✓
By 320 Plenum	S4,17	PD	✓
3rd Flr. Hall Near Elev. 1 & 2	S4,15	PD	✓
3rd Flr. Hall Near Restrooms	S4,18	PD	✓
3rd Flr. Hall by Womens RR Plenum		PD	✓
3rd Flr. Hall Near Stairs	S4, 20	PD	✓

By 209 Plenu	S3,71	PD	✓		
By 210 Plenum		PD	✓		
By Room 212	S3,68	PD	✓		
By 213	S3,67	PD	✓		
By Room 16	S2,69	PD	✓		
By 214 PLENUM	S3,66	PD	✓		
By 215	S3,65	PD	✓		
By Room 22	S2,70	PD	✓		
By 207	S3,64	PD	✓		
By Basement Freight Elev.	S2,71	PD		✓	Did not recall
By 23	S2,76	PD	✓		
By 216	S3,63	PD	✓		
By 25	S2,77	PD	✓		
By 218	S3,62	PD	✓		
By 206	S3,61	PD	✓		
Corridor H 005	S2,78	PD	✓		
3rd Flr. Elev. 3 & 4 Lobby Plenum	S4,06	PD	✓		
Room 307	S4,57	PD	✓		
Room 308		PD	✓		
Room 336	S4,28	PD	✓		
Room 337	S4,27	PD	✓		
Room 338	S4,26	PD	✓		
Room 310	S4,60	PD	✓		
Room 311	S4,61	PD	✓		
Room 312	S4,62	PD	✓		
Room 313	S4,63	PD	✓		
Room 314	S4,64	PD	✓		
Room 315	S4,66	PD	✓		
Room 316	S4,48	PD	✓		
Room 339	S4,65	PD	✓		
Room 335	S4,29	PD	✓		
Room 334	S4,30	PD	✓		
Room 332	S4,32	PD	✓		
Room 331	S4,33	PD	✓		
Room 330	S4,34	PD	✓		
Room 329	S4,35	PD	✓		
Room 328	S4,36	PD	✓		
Room 327	S4,37	PD	✓		
Room 326	S4,38	PD	✓		
Room 325	S4,39	PD		✓	Not mounted to box, hanging by wires
Room 323	S4,40	PD	✓		
Room 322	S4,42	PD	✓		
Room 323 Studio	S4,41	PD	✓		
Room 333 Studio	S4,31	PD	✓		
Room 306B Mech.	S4,76	PD	✓		
By Room 27	S1,78	PD	✓		
2nd Flr. by mens RR	S3,59	PD	✓		
By Room 29	S1,86	PD	✓		
By Room 32	S1,85	PD	✓		
2nd Flr. by Womens RR	S3,58	PD	✓		
By Room 34	S1,84	PD	✓		
By Room 37	S1,87	PD	✓		
Near Room 204	S3,57	PD	✓		
By Room 39	S1,83	PD	✓		
By Room 9	S1,82	PD	✓		
By Room 6	S1,81	PD	✓		
By Room 7		PD	✓		
Basement Elev. 1 & 2 Lobby Plenum	S1,79	PD	✓		
Roof Mech Room	M4,03	MP	✓		

Roof Mech Room		VO	✓		
Roof Mech Room		FT		✓	Not mounted to box, hanging by wires
Roof Mech Room	M4,15	DD	✓		
Roof Mech Room	M4,14	DD	✓		
Roof Mech Room		DD	✓		
Roof Mech Room		FT		✓	Not mounted to box, hanging by wires
Roof Mech Room	M4,13	DD	✓		
3rd Flr. Stair		TS	✓		
3rd Flr. Stair		FS	✓		
2nd Flr. Stair	M3,04	TS	✓		
2nd Flr. Stair	M3,05	FS	✓		
1st Flr. Stair	M2,06	TS	✓		
1st Flr. Stair	M2,05	FS	✓		
Basement Stair	M1,06	TS	✓		
Basement Stair	M1,05	FS	✓		
Room S101	M2,13	TS	✓		
Room S101	M2,12	FS	✓		
Room 206		AV	✓		
Room 207	S3,53	PD	✓		
Room 207	S3,54	PD	✓		
Room 205	S3,55	PD	✓		
Room 205	S3,56	PD	✓		
Mech Room 1	S1,72	FT	✓		
Mech Room 1	M1,13	MP	✓		
Mech Room 1		AV	✓		
Mech Room 1	S1,74	FT	✓		
Mech Room 1		FT	✓		
Mech Room 1	S1,77	PD	✓		
Mech Room 1		DD	✓		
Mech Room 1	M1,09	DD	✓		
Mech Room 1	M1,10	DD	✓		
Mech Room 1	M1,11	DD	✓		
Elev. 1 & 2 Mech Room		FT	✓		Shunt tripped all elevators, both sides of the building
Elev. 1 & 2 Mech Room	S1,75	PD	✓		
Elev. 3 & 4 Pit	S2,90	PD			Not tested
Elev. 3 & 4 Pit	S2,92	PD			Not tested
Elev. 3 & 4 Pit		FT			Not tested
Elev. 3 & 4 Pit		FT			Not tested
Equipment Room S103		FT		✓	Did not Shunt trip
Equipment Room S103	S2,86	PD		✓	Did not recall
Elev. 3 & 4 Top of Shaft	S4,02	PD			Not tested
Elev. 3 & 4 Top of Shaft	S2,04	PD			Not tested
Elev. 3 & 4 Top of Shaft		FT			Not tested
Elev. 3 & 4 Top of Shaft		FT			Not tested
Elev. 1 & 2 Pit	S1,90	PD			Not tested
Elev. 1 & 2 Pit	S1,91	PD			Not tested
Elev. 1 & 2 Pit		FT			Not tested
Elev. 1 & 2 Pit		FT			Not tested
Elev. 1 & 2 Top of Shaft	S4,25	PD			Not tested
Elev. 1 & 2 Top of Shaft	S2,44	PD			Not tested
Elev. 1 & 2 Top of Shaft		FT			Not tested
Elev. 1 & 2 Top of Shaft		FT			Not tested

