DATE: April 29, 2025

Project Engineer: RTM Engineering Consultants
20 N.W. 3rd Street Suite 510
Evansville, Indiana 47708-1356
Telephone: 812-401-2260

TO: PROSPECTIVE BIDDERS

SUBJECT: ADDENDUM NO. 1 TO THE BIDDING DOCUMENTS FOR

JOB NAME	IU Merrill Hall Fire Alarm
LOCATION	IU Bloomington
JOB NUMBER	IU 20222129

This addendum forms a part of the bidding and contract documents and modifies the original bidding documents, dated April 15, 2025. Acknowledge receipt of this addendum in space provided on Bid Form. FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.

****

PROJECT MANUAL:

1. Notice To Bidders

   a. Changed bid due date to May 14th 2025 in lieu of May 7th 2025.

2. Bid Form

   a. Changed project completion date to March 27th 2026 in lieu of January 16th 2026.

SUPPLEMENTAL INFORMATION:

1. To schedule a walk of the building, prospective bidders shall contact Matt Smethurst at msmethur@iu.edu.

2. Questions from pre-bid meeting:

   - Q1: When a wall is disturbed, does the contractor need to paint the entire wall?
   - A1: Repaint to nearest and most logical stopping point.

   - Q2: If a wall is two colors and only one paint color is disturbed, do both colors need painted?
   - A2: Repaint only the disturbed areas of wall.

   - Q3: Can painted EMT be used on the first floor in lieu of the existing style of wiremold?

- A3: That is acceptable.

- Q4: Can existing conduit be reused if new cable is able to be pulled while old devices are still in place?
- A4: Reusing conduit is acceptable as long as approved by INLOCC assuming conduit is in acceptable condition and properly supported.

Sincerely,

Robert Hudnell

This addendum consists of 2 pages and 5 attachments consisting of 68 pages.

NOTICE TO BIDDERS

Notice is hereby given that electronic bids will be received:

By: The Trustees of Indiana University
Bloomington, Indiana

For: BL147 Merrill Hall Fire Alarm System Replacement
Indiana University Bloomington
IU 20222129

At: Office of the Vice President for Capital Planning and Facilities

In accordance with Indiana Code 4-13-18 Drug Testing of Employees of Public Works Contractors and IC 5-16 Public Works

Via electronic bid submission on www.iuplanroom.com. Bidders must be registered on the plan room, and signed into the plan room, in order to submit a bid.

Bids will be electronically opened via Zoom: https://iu.zoom.us/j/82623978895
Meeting ID: 826 2397 8895
Join By Telephone: 312-626-6799

Until: 2:00 P.M. Eastern Time, on May 14th, 2025.

Bids received after that time will not be accepted. Bid results will be published on www.iuplanroom.com.

A Unified Bid is requested for all work in this project, including General, Mechanical, and Electrical Construction work.

See project specifications for electronic bid submission instructions.

All bid proposals shall be in full accord with the Bidding Documents, which are on file with the Owner and may be examined by prospective Bidders:

VPCPF Support Resources – Construction Procurement
Indiana University
bidtab@iu.edu
812-855-5294

Bidding documents will be available April 16th, 2025. Please contact the Eastern Engineering Distribution Department, 9901 Allisonville Road, Fishers, Indiana 46038, Ph. 317-598-0661, www.iuplanroom.com for deposit and purchase information.

Each bid must be accompanied by:

- a completed Minority, Women's and Veteran's Business Enterprise Participation Plan, detailing the good faith efforts of the contractor to include minority, women and veteran-

owned enterprises as subcontractors or material suppliers on the Project;
- a bid security for 5% of the total bid; and
- the contractor's written drug testing program, which must be in full compliance with IC 4-13-18.

The Owner reserves the right to accept or reject any bid and to waive any irregularities in bidding. The Owner may consider a bid to be incomplete if it does not provide the required documentation as described in this Notice, including but not limited to the Minority, Women's and Veteran's Business Enterprise Participation Plan. The Base Bid may be held for a period not to exceed sixty days before awarding Contracts. All Alternate Bids may be held for a period not to exceed ninety days before award and incorporation into the contract by proper Change Directive.

Should a successful Bidder withdraw his bid or fail to execute a satisfactory Contract within 10 days after notice of acceptance of bid, the Owner may declare the Bid Security forfeited as liquidated damages, not as penalty.

A pre-bid meeting is scheduled for 10am, Eastern Time, on April 23rd, 2025. All interested parties should assemble at Merrill Hall, 1201 E. 3rd St., on the Indiana University Bloomington campus.

BL147 Merrill Hall Fire Alarm System Replacement
Indiana University Bloomington
IU 20222129

BID FORM
for

BL147 Merrill Hall Fire Alarm System Replacement
Indiana University Bloomington
Bloomington, Indiana
IU 20222129

TO: The Trustees of Indiana University
Bloomington, Indiana

****Submit bid online via www.iuplanroom.com****

FROM:

Bidder's Name _____

Address _____

City, State, Zip Code _____

Phone Number _____ FAX Number _____

CONTACTS:

Bid / Contract Information: Name: _____

Phone: _____ E-mail: _____

Proposed Project Manager: Name: _____

Phone: _____ E-mail: _____

Indicate if your firm is a certified minority-, women-, or veteran-owned business ___Yes ___ No
If "Yes", please attach a copy of certification

FOR: **Unified Bid** to include General, Mechanical, and Electrical Construction Work

Bidders:

LUMP SUM BASE BID

The undersigned Bidder, with a complete understanding of existing conditions at the Project Site and a complete understanding of the Bidding Documents, including any Addenda acknowledged hereinafter, for BL147 Merrill Hall Fire Alarm System Replacement on the Indiana University Bloomington campus, as prepared by RTM Engineering Consultants, hereby proposes to complete the project, in full and complete accordance with the requirements of the Bidding documents, for the LUMP SUM BASE BID PRICE of:

_____ Dollars $_____
(written amount) (numerals)

MAJOR SUBCONTRACTORS

Subcontractors and other persons and organizations proposed by the Bidder and accepted by the Owner and the Owner's Representative must be used on the work for which they were proposed and accepted and shall not be changed except with the written approval of the Owner and the Owner's Representative.

If requested, the supplemental Subcontractors and Products List will be submitted by email to the Owner, bidtab@iu.edu, and RTM Engineering Consultants, robert.hudnell@rtmec.com, within 48 hours of the bid opening. The understanding of the Owner and the design team is that these same Major Subcontractors will be the same subcontractors listed below.

The Contractor proposes to utilize the following primary subcontractors for the work indicated.

List one major subcontractor per trade. Any deviation could result in the Owner removing the bid from consideration.

Indicate which are certified by the State of Indiana as an MBE, WBE, or VBE company by circling the M/W/VBE after the name.

Div. 26 Electrical Subcontractor: _____M/W/VBE

Div. 28 Electronic Safety and Security Subcontractor: _____M/W/VBE

TAX EXEMPTIONS

The undersigned Bidder has informed himself and all his prospective sub-contractors and suppliers of the tax exempt status of the Owner, as set forth in the General Conditions, and therefore, has not included these taxes in his Lump Sum Base Bid price.

SUBSTITUTIONS

The undersigned Bidder has based his bid upon the materials, products, articles, equipment, brands, manufacturers and processes described in the Bidding Documents or upon approved equivalents. Proof of equivalency of substitutions is the responsibility of the Bidder, but the Architect/Engineer shall be the sole judge of equivalency. Proposed equivalent substitutions shall be equal in all respects to the requirements of the Bidding Documents, including but not limited to the design, quality, physical size, performance characteristics, strength, previous history of use, and to the method of installation, attachment, or connection to related or adjoining work. Determination of equivalency of proposed substitutions shall be by the Architect/Engineer, before the bid opening date, as described in paragraph entitled "Substitutions" in the Instructions to Bidders.

COMPLETION DATE

The Undersigned Bidder agrees to coordinate and expedite his work, and shall take into consideration any lead time and schedule parameters, with all contractors and that this Work will be completed by **March 27th, 2026**.

ASSIGNMENT OF COORDINATION

The undersigned Bidder agrees to the assignment of Mechanical and Electrical work to the successful General Contractor for the responsibility of complete coordination of the work as stated in the Instructions to Bidders.

PERFORMANCE AND PAYMENT BOND

The undersigned Bidder agrees, if awarded the Contract, to deliver to the Owner a satisfactory Performance Bond, in the full amount (100%) of the total Contract price, not later than the date of execution of the contract. The cost of the Bond shall be included in the Lump Sum Base Bid contained in this Proposal.

SUPPLEMENTAL AND REQUIRED DOCUMENTS

Bid Security; State Form 96 (Revised 2013); Written Drug Testing Program, which must be in full compliance with IC 4-13-18; a completed Minority, Women's and Veteran's Business Enterprise Participation Plan; Contractor Asbestos Certification; Asbestos Protocol for Contractors.

ADDENDA

The following Addenda have been received by the undersigned Bidder; and all costs resulting from these Addenda have been included in the preparation of this Bid Form:

Addendum No. _____ Dated _____

Addendum No. _____ Dated _____

Addendum No. _____ Dated _____

SIGNATURES

1. **When a Bidder is an Individual**:

_____ _____

Witness Bidder

Date: _____ Address: _____

_____

2. **When a Bidder is a Partnership**: _____

Name of Partnership

Date: _____ Address: _____

_____

_____ _____

Partner Partner

3. When Bidder is a Corporation: _____

Name of Corporation

Date: _____ Address: _____

_____

By: _____

President

Attest: _____

Secretary

CORPORATE SEAL

END

****Submit bid online via www.iuplanroom.com****

INDIANA UNIVERSITY
PUBLIC SAFETY
Environmental Health and Safety

To: Samuel Freeman
From: Kevin Ooley
Subject: BL 147 – Merrill Hall - CPO#20222129 - EHS#7079
Date: July 16, 2024

I, Kevin Ooley (IDEM Asbestos inspector license #19041404). Expiration: 7/15/2025), performed the requested evaluation of the following project.

Scope: Perform visual inspection to provide information on the amount and condition of any possible Asbestos Containing Materials (ACM) @ IU Bloomington Campus – BL 147 Merrill Hall corridors -099,199,299,399.

The asbestos survey was performed to prepare corridors with new upgrade fire alarm system in corridors mentioned above. Specifically, the following services were provided.

- Perform visual inspection to provide information on the amount and condition of suspect material present; and
- Collection of suspect ACMs within the above referenced property.
- Analysis of bulk samples utilizing Polarized Light Microscopy (PLM); and
- Generation of a final report that details all sample results, ACM locations, and recommendations based on the results.

Explanation of method used: Prior to collecting any bulk samples from the building, a walk-though/walk-around was performed. The walk-through/walk-around included a visual inspection documenting suspect ACMs, their locations, and approximate quantities. After the suspect materials were identified, bulk samples were collected and placed into individual seal-able bags for transportation to an accredited laboratory.

Note: All 12”x12”x1” ceiling tiles and brown glue dots on ceilings in all corridors are (negative) for ACM. The plaster walls and ceilings are (negative) for ACM. There is some (ACM TSI pipe insulation) in corridors all pipe insulation is in good shape. And should not be disturbed during the installation of the new fire alarm system. If ACM insulation should need to be removed. Please contact Alex M to schedule the abatement. See attachments for lab reports.

DISCLAIMER: This inspection was conducted by an Indiana Department of Environmental Management licensed inspector. The inspection and sampling were limited to those materials that were visible or reasonably accessible at the time of the inspection. There may be hidden materials in the building. Should a suspect material become uncovered during the renovation/demolition, activity must stop and an accredited inspector must be notified to evaluate the material.

Laboratory Services
304 S. State Avenue ▼ Indianapolis, Indiana 46201
317/756-9320 ▼ Fax 317/756-9324

July 17, 2024

IUPUI
980 Indiana Avenue, Room 4453
Indianapolis, Indiana 46202

RE: 8 PLM Sample(s) Analyzed
Client Project: EHS #7079 – CPO #20222129 – BL 147 Merrill Hall
ACT Batch No.: 24B0243
ACT Project No.: 240015

Enclosed are the sample results from the bulk asbestos analysis for the 7 sample(s) submitted to the ACT Asbestos Laboratory on July 16, 2024. Percentages were determined by visually estimating the area percentage for each type of fibrous material. Asbestos samples estimated to contain less than ten percent asbestos might require further quantification by either point counting or other alternative methods of analysis.

ACT Laboratory will hold your sample(s) for three months after the completion of analysis. At the end of the three-month period, the laboratory will dispose of the sample(s) unless prior arrangements have been made.

Samples were received in acceptable condition and analyzed at the ACT Laboratory under appropriate environmental conditions, unless noted in the comments in the following table. Enclosed test results relate only to items tested and the information provided by the customer. ACT Environmental Services, Inc. is NOT NVLAP accredited.

We trust this information is responsive to your needs. If you have any questions or comments regarding the sample analysis or results, please do not hesitate to call.

Sincerely,
ACT Environmental Services, Inc.

Nikki L. Brown
Laboratory Technical Manager
AIHA LAP, LLC Accredited Laboratory
Lab# 102853

Method Limitations: Analysis of floor tile and other resinous bound materials by Polarized Light Microscopy (PLM) may yield false negative results due to method limitations. PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative results cannot be guaranteed. ACT Environmental recommends that further analysis be conducted using TEM. For all heterogeneous samples, easily separated into sub-samples, each component will be analyzed separately and noted in lab documentation only. ACT Laboratory is not responsible for the accuracy of the results when requested to physically separate, analyze and report layered samples. Floor Tiles and other resinous bound materials may be heated by hot plate to release fibers.

Limit of Detection: According to method EPA 600/R-93/116, July 1993, the detection limit for visual estimation is a function of the quantity of sample analyzed, the nature of matrix interference, sample preparation, and fiber size and distribution. Asbestos percentages are therefore recognized as Not Detected (no asbestos fibers identified), <1% asbestos (identified but trace amount), 2-100% asbestos (recognized as asbestos containing material).

Laboratory Services
304 S. State Avenue ▼ Indianapolis, Indiana 46201
317/756-9320 ▼ Fax 317/756-9324

BULK SAMPLE ANALYSIS REPORT
POLARIZED LIGHT MICROSCOPY (PLM)
Performed by EPA 600/R-93/116 Method Modified

July 17, 2024

Client Project:	EHS #7079
ACT Project No.:	240015
ACT Batch No.:	24B0243
Date Sample(s) Collected:	07-11-24
Date Sample(s) Received:	07-16-24
Date Sample(s) Analyzed:	07-17-24

Notes: * Indicates Non-Homogeneous Sample
** Indicates Homogeneous Sample
HC High Concentration
MC Medium Concentration
LC Low Concentration

Lab I.D. #	Client I. D. #	Sample Color / Texture	Layer (s)	Asbestos Type	%	Other Fibrous Material	%	Non-Fibrous Material	%	Comments
B241719	7079-1	Gray Grainy/ Fibrous **	1	Not Detected		Fiberglass Cellulose	70 10	Binder	20	Ceiling Tile
B241720	7079-1/M	Brown Hard **	1	Not Detected		Fiberglass Wollastonite Cellulose	15 5 5	Adhesive	75	Glue
B241721	7079-2	Gray Grainy/ Fibrous **	1	Not Detected		Fiberglass Cellulose	70 10	Binder	20	Ceiling Tile
B241722	7079-2/M	Brown Hard **	1	Not Detected		Fiberglass Wollastonite Cellulose	10 5 2	Adhesive	83	Glue
B241723	7079-3	Gray Grainy/ Fibrous **	1	Not Detected		Fiberglass Cellulose	70 10	Binder	20	Ceiling Tile
B241724	7079-3/M	Brown Hard **	1	Not Detected		Fiberglass Wollastonite Cellulose	10 5 2	Adhesive	83	Glue
B241725	7079-4	Gray Grainy/ Fibrous **	1	Not Detected		Fiberglass Cellulose	80 10	Binder	10	Ceiling Tile

Reviewed By: Nikki L. Brown
Laboratory Technical Manager

ACT Environmental Services, Inc.
304 S. State Ave. / Indianapolis, IN / 46201
317/756-9320/fax 317/756-9324 / www.actenvironmental.com

CHAIN OF CUSTODY

Client:	Client Project Name/Location:	ACT Project No:	Lab Batch No.:
IU-EHS	EHS#7079 - CPO#20222129 - BL 147 Merrill Hall	240015	24B0243

TURNAROUND TIME: ☐ RUSH – 1 hour PCM/PLM; 4 hour Lead/IAQ ☐ Same Day (in lab by 12pm/results by 5pm) ☑ 24 hours (1 day)
☐ 2 days **(PCM/IAQ/Nuisance Dust Standard)** ☐ 3 days **(LEAD/PLM Standard)** ☐ 4 days ☐ 5 days

SAMPLER:	Analyze: ALL ☐ or First positive ☑	Possible Hazards: Yes ☑ Unknown ☐	Sample Disposal: Return to Client ☐ Disposal by Lab ☑	Due Date _____
KO				

LABORATORY ANALYSIS:
☐ IAQ ☑ ASBESTOS ☐ LEAD ☐ OTHER _____

SAMPLE TYPE:
☐ Air ☐ PCM ☐ TEM ☑ Bulk ☐ Wipe ☐ Soil ☐ Paint
☐ Air-O-Cell ☐ Tape ☐ Swab ☐ Cyclex-D ☐ Other _____

Client Sample I.D.	Sample Collection Location:	Sample Collection Date	Homogenous Area	Lab I.D.:	RESULTS:
7079-1 | M	Corridors-099,199,299,399- 12"x12"x1" ceiling tiles w/brown glue dots	07/11/24	HA-1	B24719|20	ND|ND
7079-2 | M	Corridors-099,199,299,399- 12"x12"x1" ceiling tiles w/brown glue dots	07/11/24	HA-1	21|22	ND|ND
7079-3 | M	Corridors-099,199,299,399- 12"x12"x1" ceiling tiles w/brown glue dots	07/11/24	HA-1	23|24	ND|ND
7079-4	Corridors-099,199,299,399- 12"x12"x1" ceiling tiles	07/11/24	HA-1	25	ND

Relinquished By:	Date/Time:	Received By:	Date/Time:	Client Contact Name:
Kevin Ooley	1:00pm 7/11/2024	JP	7/16/24 2:00PM	Y/N ☐ Client Contact Phone:
				Y/N ☐ Client Contact Fax/Email: KOOLEY@INDIANA.EDU

JP Analyst JP 1st QC Review MB 2nd QC Review

Revision: January 2011

Attachment 1

EMSL Analytical, Inc.
6340 CastlePlace Dr. Indianapolis, IN 46250
Tel/Fax: (317) 803-2997 / (317) 803-3047
http://www.EMSL.com / indianapolislab@emsl.com

EMSL Order:	162020574
Customer ID:	IUPI30
Customer PO:	PO0200607
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
3-5-Skim Coat *162020574-0006A*	Plaster (White Skim/Gray Base), Rm 215B	White Non-Fibrous Homogeneous	HA: 3	100% Non-fibrous (Other)	None Detected
3-5-Base Coat *162020574-0006B*	Plaster (White Skim/Gray Base), Rm 215B	Gray Non-Fibrous Homogeneous	<1% Cellulose HA: 3	20% Quartz 80% Non-fibrous (Other)	None Detected
3-6-Texture *162020574-0007*	Plaster (White Skim/Gray Base), Rm 114	White Non-Fibrous Homogeneous	HA: 3	100% Non-fibrous (Other)	None Detected
3-6-Skim Coat *162020574-0007A*	Plaster (White Skim/Gray Base), Rm 114	White Non-Fibrous Homogeneous	HA: 3	100% Non-fibrous (Other)	None Detected
3-6-Base Coat *162020574-0007B*	Plaster (White Skim/Gray Base), Rm 114	Gray Non-Fibrous Homogeneous	<1% Cellulose HA: 3	20% Quartz 80% Non-fibrous (Other)	None Detected
3-7-Skim Coat *162020574-0008*	Plaster (White Skim/Gray Base), Rm 101	White Non-Fibrous Homogeneous	HA: 3	100% Non-fibrous (Other)	None Detected
3-7-Base Coat *162020574-0008A*	Plaster (White Skim/Gray Base), Rm 101	Gray Non-Fibrous Homogeneous	<1% Cellulose HA: 3	20% Quartz 80% Non-fibrous (Other)	None Detected
3-8-Skim Coat *162020574-0009*	Plaster (White Skim/Gray Base), Rm 007B	White Non-Fibrous Homogeneous	HA: 3	100% Non-fibrous (Other)	None Detected
3-8-Base Coat *162020574-0009A*	Plaster (White Skim/Gray Base), Rm 007B	Gray Non-Fibrous Homogeneous	<1% Hair HA: 3	20% Quartz 80% Non-fibrous (Other)	None Detected
3-9-Skim Coat *162020574-0010*	Plaster (White Skim/Gray Base), Rm 008	White Non-Fibrous Homogeneous	HA: 3	100% Non-fibrous (Other)	None Detected
3-9-Base Coat *162020574-0010A*	Plaster (White Skim/Gray Base), Rm 008	Gray Non-Fibrous Homogeneous	<1% Hair HA: 3	20% Quartz 80% Non-fibrous (Other)	None Detected
4-1 *162020574-0011*	Tan Interior Window Glazing, Rm 333	Gray Non-Fibrous Homogeneous	HA: 4	100% Non-fibrous (Other)	None Detected
4-2 *162020574-0012*	Tan Interior Window Glazing, Rm 320	Gray Non-Fibrous Homogeneous	HA: 4	100% Non-fibrous (Other)	None Detected
4-3 *162020574-0013*	Tan Interior Window Glazing, Rm 205	Gray Non-Fibrous Homogeneous	HA: 4	100% Non-fibrous (Other)	None Detected

Initial report from: 10/08/2020 15:21:23

Attachment 1

EMSL Analytical, Inc.
6340 CastlePlace Dr. Indianapolis, IN 46250
Tel/Fax: (317) 803-2997 / (317) 803-3047
http://www.EMSL.com / indianapolislab@emsl.com

EMSL Order:	162020574
Customer ID:	IUPI30
Customer PO:	PO0200607
Project ID:	

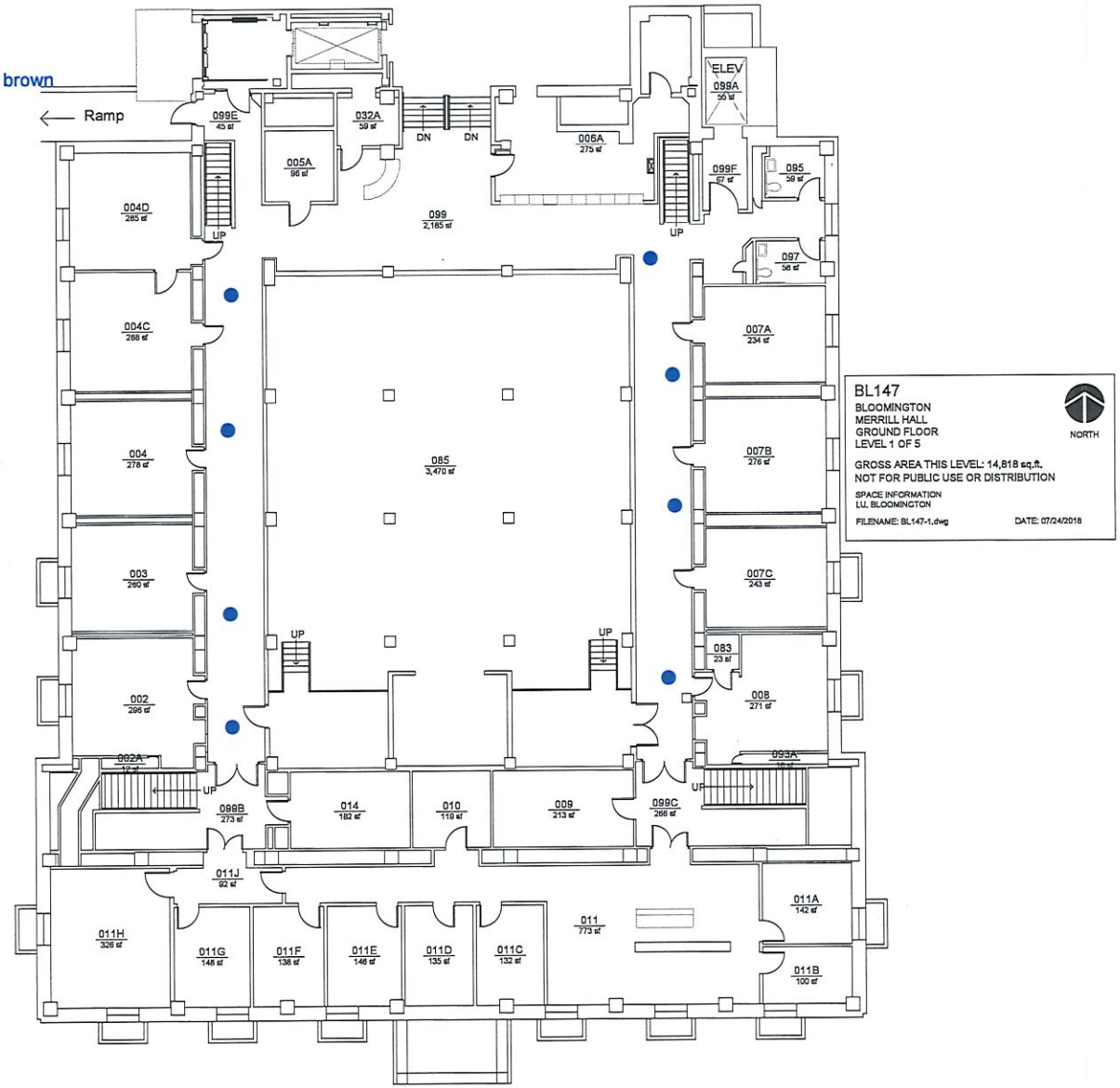
Attention:	Kathryn DeCosta	**Phone:**	(317) 274-2005
	IUPUI, EHS	**Fax:**	(317) 278-2158
	980 Indiana Avenue	**Received Date:**	10/08/2020 9:50 AM
	Room 4423	**Analysis Date:**	10/08/2020
	Indianapolis, IN 46202	**Collected Date:**	10/07/2020
Project:	EHS #6241.CPO#20181030.BL147 Merrill Hall (Windows)		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

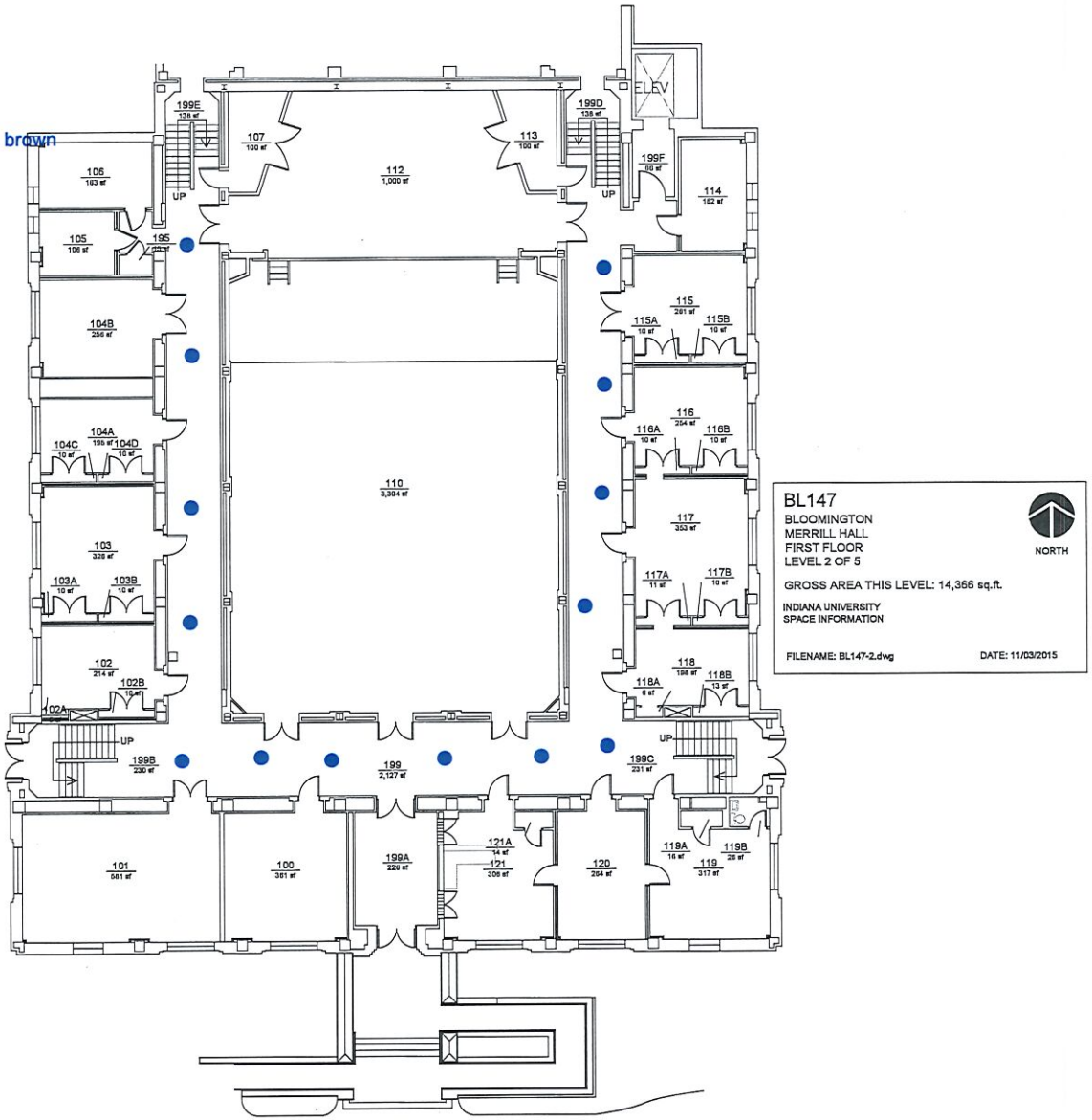
			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2-1-Skim Coat *162020574-0001*	Plaster (White Skim/Light Gray Base), 490 Stairwell	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 1		
2-1-Base Coat *162020574-0001A*	Plaster (White Skim/Light Gray Base), 490 Stairwell	Gray Non-Fibrous Homogeneous	5% Cellulose	20% Quartz 75% Non-fibrous (Other)	None Detected
			HA: 1		
3-1-Skim Coat *162020574-0002*	Plaster (White Skim/Gray Base), Rm 333	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 3		
3-1-Base Coat *162020574-0002A*	Plaster (White Skim/Gray Base), Rm 333	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
			HA: 3		
3-2-Skim Coat *162020574-0003*	Plaster (White Skim/Gray Base), Rm 343	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 3		
3-2-Base Coat *162020574-0003A*	Plaster (White Skim/Gray Base), Rm 343	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
			HA: 3		
3-3-Skim Coat *162020574-0004*	Plaster (White Skim/Gray Base), NW Stairwell On 3rd Fl	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 3		
3-3-Base Coat *162020574-0004A*	Plaster (White Skim/Gray Base), NW Stairwell On 3rd Fl	Gray Non-Fibrous Homogeneous	<1% Cellulose	20% Quartz 80% Non-fibrous (Other)	None Detected
			HA: 3		
3-4-Texture *162020574-0005*	Plaster (White Skim/Gray Base), Rm 205	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 3		
3-4-Skim Coat *162020574-0005A*	Plaster (White Skim/Gray Base), Rm 205	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 3		
3-4-Base Coat *162020574-0005B*	Plaster (White Skim/Gray Base), Rm 205	Gray Non-Fibrous Homogeneous	<1% Cellulose	20% Quartz 80% Non-fibrous (Other)	None Detected
			HA: 3		
3-5-Texture *162020574-0006*	Plaster (White Skim/Gray Base), Rm 215B	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 3		

Initial report from: 10/08/2020 15:21:23

Location: 12x12x1 ceiling tiles and brown glue dots



Location: 12x12x1 ceiling tiles and brown glue dots



BL147
BLOOMINGTON
MERRILL HALL
FIRST FLOOR
LEVEL 2 OF 5

NORTH

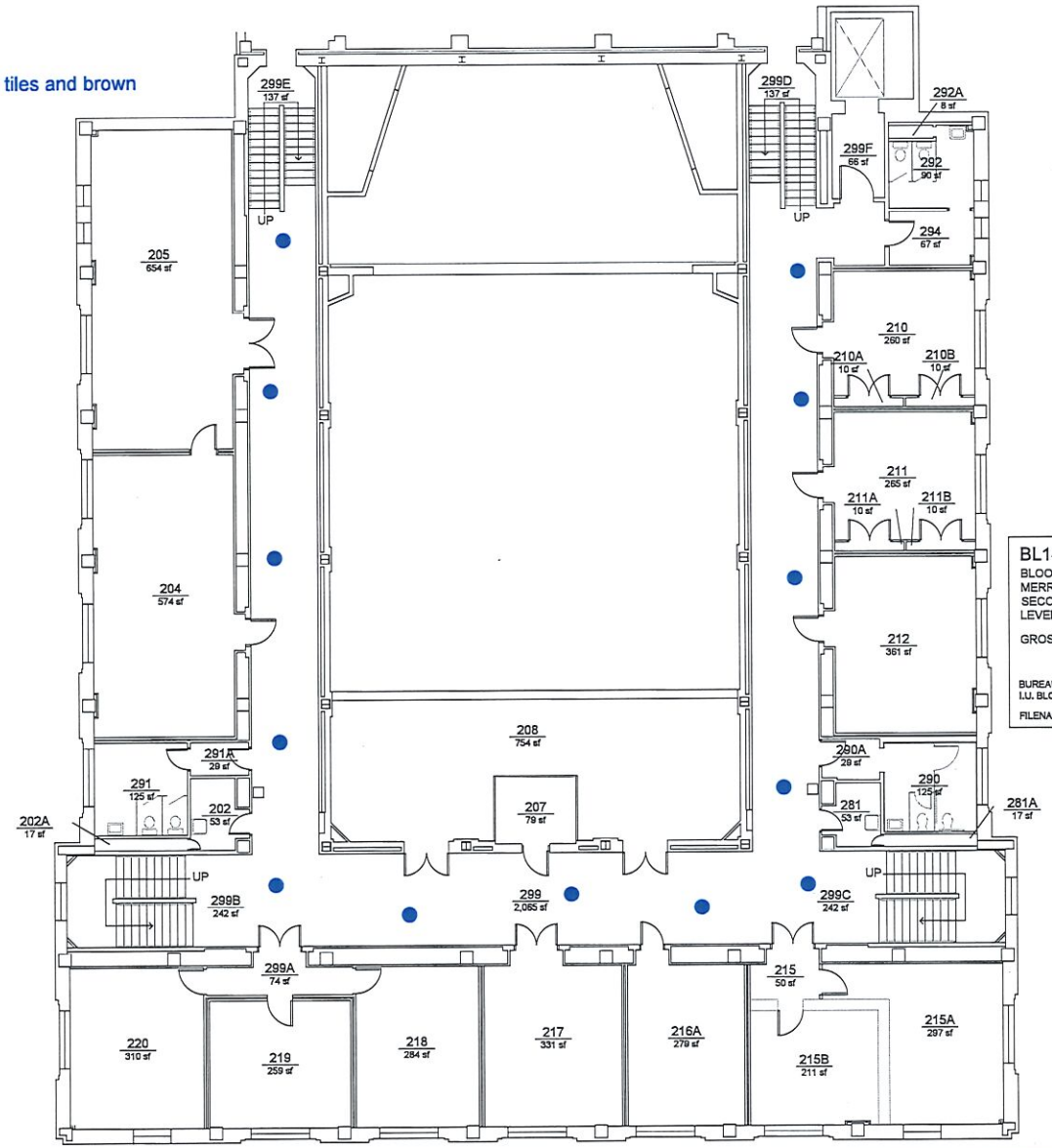
GROSS AREA THIS LEVEL: 14,366 sq.ft.

INDIANA UNIVERSITY
SPACE INFORMATION

FILENAME: BL147-2.dwg

DATE: 11/03/2015

Location: 12x12x1 ceiling tiles and brown glue dots



BL147
BLOOMINGTON
MERRILL HALL
SECOND FLOOR
LEVEL 3 OF 5

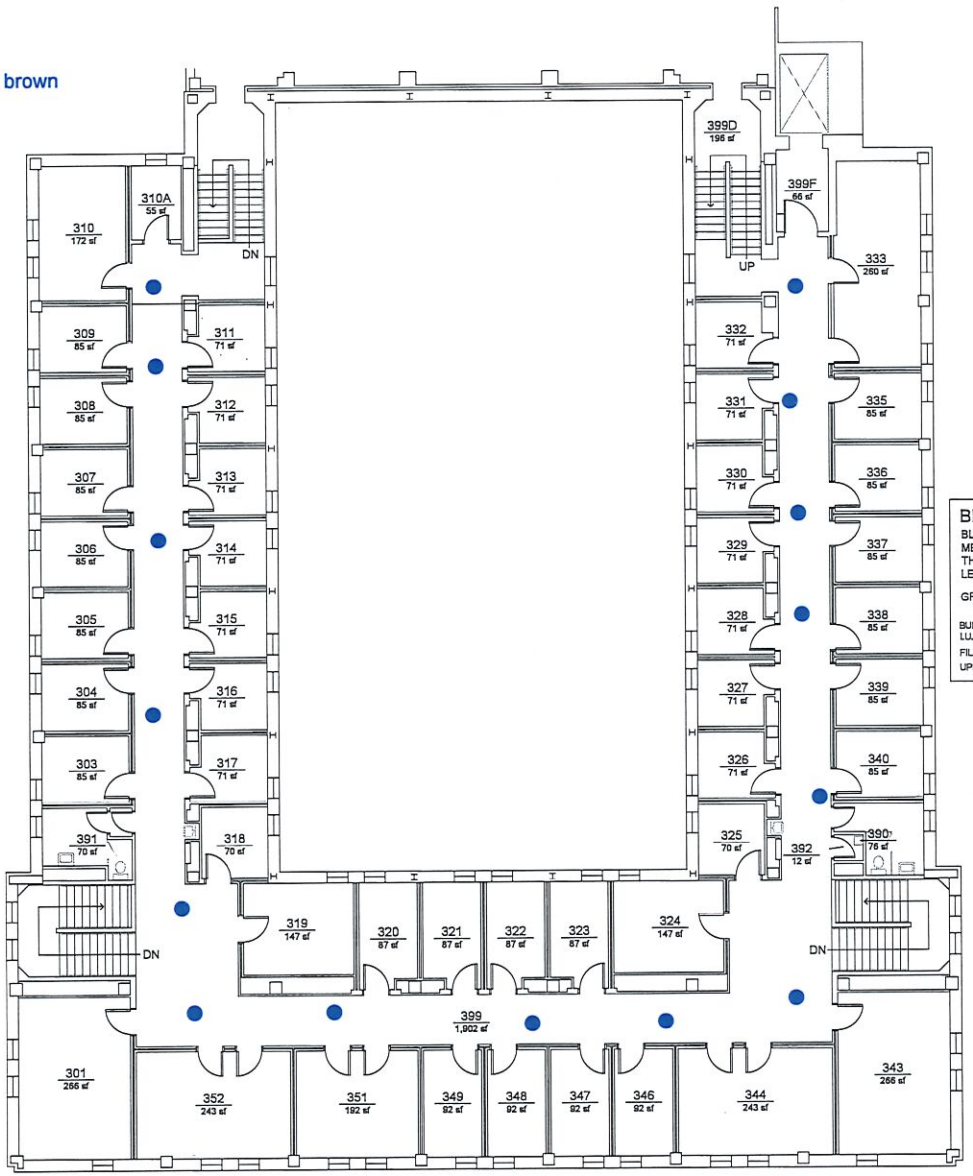
NORTH

GROSS AREA THIS LEVEL: 14,295 sq.ft.

BUREAU OF FACILITIES PROGRAMMING & UTILIZATION
I.U. BLOOMINGTON

FILENAME: BL147-3.dwg DATE: 10/30/06

Location: 12x12x1 ceiling tiles and brown glue dots



BL147
BLOOMINGTON
MERRILL HALL
THIRD FLOOR
LEVEL 4 OF 5

NORTH

GROSS AREA THIS LEVEL: 14,351 sq.ft.

BUREAU OF FACILITIES PROGRAMMING & UTILIZATION
I.U. BLOOMINGTON

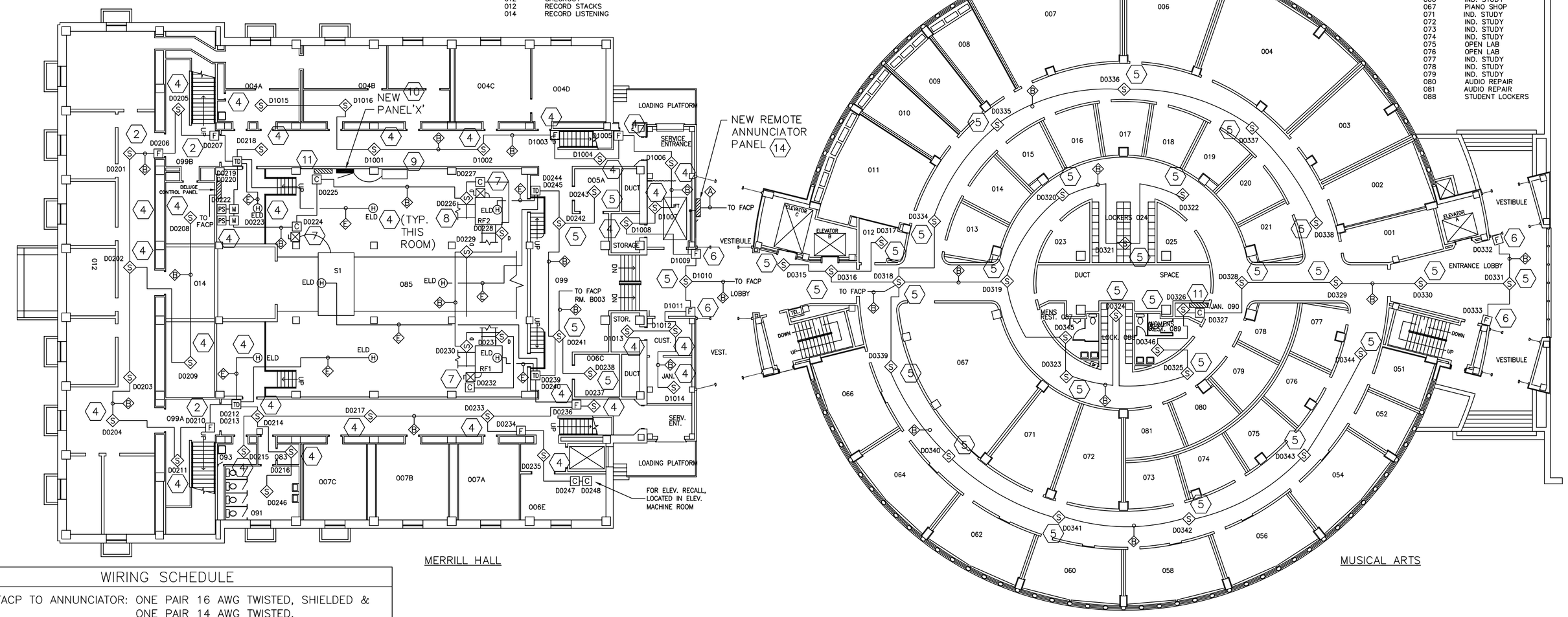
FILENAME: BL147-4.dwg DATE: 09/29/98
UPDATED: M.L. EVANS DATE: 02/05/01

Corridors- 099,199,299,399 – all 12x12x1 ceiling tile and brown glue dots are non- ACM

12x12x1 ceiling tile and brown glue dots on ceilings in corridors – 099.199,299,399 are non-ACM

ACM pipe insulation – Do not disturb

Acm pipe insulation --Do not disturb



MERRILL HALL

ROOM#	DESCRIPTION
004A	RECORD STACKS
004B	LIBRARY
004C	OFFICE
004C	OFFICE
004C	OFFICE
004D	OFFICE
005A	OFFICE
006C	OFFICE
006E	IND. STUDY
007A	IND. STUDY
007B	IND. STUDY
007C	IND. STUDY
012	RECORD LISTENING
012	CHECKOUT
012	RECORD STACKS
014	RECORD LISTENING

MUSICAL ARTS

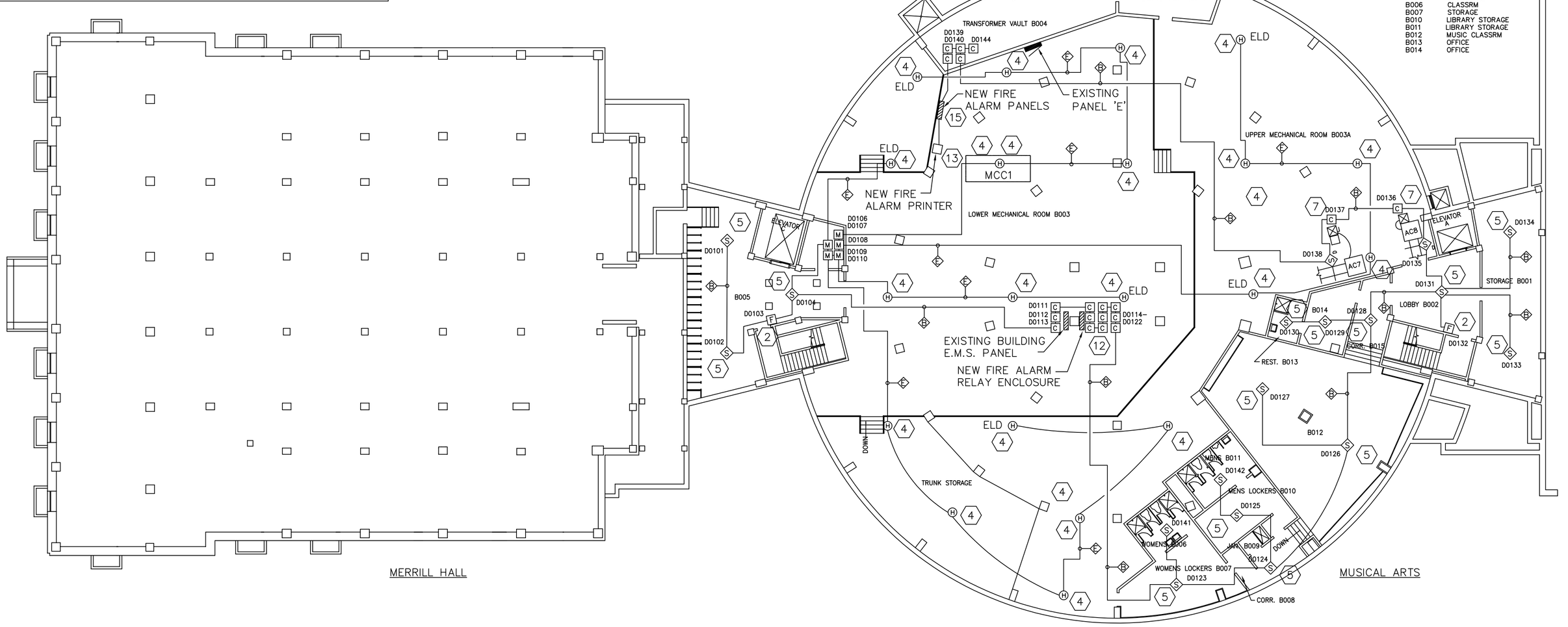
ROOM#	DESCRIPTION
0003X	OFFICE
0003Y	CENT WAREHS
001	OPEN LAB
002	IND. STUDY
003	IND. STUDY
004	MUSIC CLASSRM
006	MUSIC CLASSRM
007	MUSIC CLASSRM
008	IND. STUDY
009	IND. STUDY
010	IND. STUDY
011	IND. STUDY
012	COMPUTER STORAGE
013	IND. STUDY
014	IND. STUDY
015	IND. STUDY
016	IND. STUDY
017	IND. STUDY
018	IND. STUDY
019	IND. STUDY
020	IND. STUDY
021	OPEN LAB
023	OFFICE
024	STUDENT LOCKERS
051	OFFICE
052	IND. STUDY
054	IND. STUDY
056	IND. STUDY
058	IND. STUDY
060	IND. STUDY
062	IND. STUDY
064	IND. STUDY
066	IND. STUDY
067	PIANO SHOP
071	IND. STUDY
072	IND. STUDY
073	IND. STUDY
074	IND. STUDY
075	OPEN LAB
076	OPEN LAB
077	IND. STUDY
078	IND. STUDY
079	IND. STUDY
080	AUDIO REPAIR
081	AUDIO REPAIR
088	STUDENT LOCKERS

GROUND FLOOR PLAN – ALD LOOPS

SCALE: 1/16" = 1'–0"

WIRING SCHEDULE

- (A) FACP TO ANNUNCIATOR: ONE PAIR 16 AWG TWISTED, SHIELDED & ONE PAIR 14 AWG TWISTED.
- (B) ALD CIRCUITS: ONE PAIR 16 AWG TWISTED, SHIELDED.
- (C) STROBE CIRCUIT: ONE PAIR 12 AWG TWISTED, SHIELDED.
- (D) SPEAKER CIRCUIT: ONE PAIR 16 AWG TWISTED.
- (E) TRI CIRCUIT: ONE PAIR 18 AWG TWISTED, SHIELDED.



MUSICAL ARTS

ROOM#	DESCRIPTION
B001	TEACH LAB
B006	CLASSRM
B007	STORAGE
B010	LIBRARY STORAGE
B011	LIBRARY STORAGE
B012	MUSIC CLASSRM
B013	OFFICE
B014	OFFICE

BASEMENT FLOOR PLAN – ALD LOOPS

SCALE: 1/16" = 1'–0"

PLAN NOTES:

1. THIS DEVICE SHALL ONLY BE INSTALLED UNDER ALTERNATE #1–'VOICE EVAC.'.
2. NEW DEVICE IS INSTALLED IN SAME LOCATION AS EXISTING DEVICE REMOVED UNDER DEMOLITION PLAN.
3. UNDER ALTERNATE #1–'VOICE EVAC.' THIS DEVICE SHALL BE A SPEAKER/STROBE.
4. DEVICE BOX SHALL BE SURFACE MOUNTED. CONDUIT SHALL BE ROUTED EXPOSED.
5. DEVICE BOX SHALL BE FLUSH MOUNTED IN SUSPENDED CEILING. CONDUIT SHALL BE ROUTED ABOVE CEILING.
6. DEVICE BOX SHALL BE SURFACE MOUNTED. ROUTE CIRCUIT IN SURFACE MOUNTED RACEWAY UP TO ABOVE CEILING THEN IN CONDUIT ABOVE CEILING.
7. MOUNT ADDRESSABLE RELAY IN ENCLOSURE AS NEAR TO STARTER AS POSSIBLE FOR CONTROL OF FAN SHUT DOWN.
8. ROUTE CIRCUITS FOR ALL DEVICES IN MECHANICAL ROOMS IN EXPOSED CONDUIT.
9. EXISTING DISTRIBUTION PANEL. INSTALL NEW 60AMP FUSES IN EXISTING SPARE 3POLE SWITCH TO SERVE NEW PANEL 'X'.
10. NEW PANEL 'X' SHALL BE 208Y/120V, 3PH, 4W, 200A MLD, SURFACE MOUNT. BRANCH OVERCURRENT DEVICES SHALL BE 30EA. 20A/1P BREAKERS. PANEL FEEDER SHALL BE 4#6 & #8G IN 1"C ROUTED TO EXISTING 3POLE SWITCH IN EXISTING DISTRIBUTION PANEL.
11. LOCATION FOR A.D.A. STROBE AUXILIARY POWER SUPPLIES.
12. NEW ENCLOSURE FOR ADDRESSABLE FIRE ALARM SYSTEM RELAYS. EACH AIR HANDLER CONTROLLED BY DUCT SMOKE DETECTOR SHALL HAVE CORRESPONDING RELAY IN THE ENCLOSURE WHICH SHALL SIGNAL BUILDING E.M.S. PANEL WHEN THE AIR HANDLER HAS BEEN SHUT DOWN BY DUCT SMOKE DETECTOR. WIRING FROM FIRE ALARM RELAY ENCLOSURE TO E.M.S. PANEL SHALL BE BY CONTRACTOR. CONNECTION TO EMS PANEL SHALL BE BY OTHERS.
13. CONTRACTOR SHALL FURNISH AND INSTALL FLOOR MOUNTED METAL PRINTER CABINET TO HOUSE PRINTER. CABINET SHALL FEATURE LOCKING ENCLOSURE TO HOUSE PRINTER, PAPER SUPPLY AND PRINTOUT RECEIVING TRAY, ENCLOSURE SHALL ALSO FEATURE VIEWING WINDOW TO VIEW PRINTOUT WITHOUT OPENING ENCLOSURE.
14. NEW ANNUNCIATOR PANEL SHALL BE SURFACE MOUNTED ON MARBLE WALL. CONDUIT SHALL BE ROUTED FROM BEHIND PANEL DIRECTLY THROUGH WALL TO ADJACENT SPACE AS SHOWN THEN UP AND INTO SPACE ABOVE CEILING IN CORRIDOR.
15. 120V CIRCUITS REQUIRED FOR NEW FIRE ALARM PANEL AND PRINTER SHALL BE CIRCUITED TO EXISTING PANEL 'E'.

GENERAL NOTES:
(APPLIES TO ALL SHEETS)

G1. ALL DEVICES AND WIRING SHALL BE NEW UNLESS OTHERWISE NOTED.

G2. FOR DEVICES NOTED AS SURFACE MOUNTED, CONTRACTOR SHALL PURCHASE SURFACE BOXES INTENDED FOR SURFACE MOUNTING OF THAT DEVICE IN FINISHED AREAS WITHOUT VISIBLE KNOCKOUTS OR USE OF EXTENSION OR TRIM RINGS.

G3. SURFACE MOUNT RACEWAY, WHERE CALLED FOR IN PLANS, SHALL BE LIKE WIREMOLD #500. WIREMOLD FOR WALL MOUNTED DEVICES SHALL BE ROUTED DIRECTLY UP TO WHERE HORIZONTAL RUN OF CONDUIT IS ALLOWED, EITHER ABOVE CEILING OR ON OVERHEAD STRUCTURE WHERE NO CEILING EXISTS UNLESS OTHERWISE NOTED.

G4. IN UNFINISHED AREAS SUCH AS MECHANICAL ROOMS, ELECTRICAL ROOMS, ETC., ALL DEVICES SHALL BE SURFACE MOUNTED.

G5. PRESSURE SWITCHES ARE NEW UNLESS OTHERWISE NOTED. SWITCHES SHALL BE MONITORED BY NEW ADDRESSABLE RELAY MOUNTED IN ENCLOSURE AS NEAR AS POSSIBLE TO SWITCH. EACH SWITCH SHALL BE MONITORED BY SEPARATE ADDRESSABLE RELAY. ALL WIRING FOR SWITCHES SHALL BE NEW.

G6. NO INITIATION OR NOTIFICATION CIRCUITS SHALL BE LOADED AT MORE THAN EIGHTY PERCENT OF THE CAPACITY OF THE CIRCUIT.

G7. ON RECORD DRAWINGS, EACH DEVICE SHALL BE SHOWN WITH INDIVIDUAL DEVICE NUMBER WHICH SHALL DESIGNATE THE FOLLOWING:
1. TYPE OF CIRCUIT
2. CIRCUIT NUMBER THE DEVICE IS ON.
3. THE NUMBER FOR THAT DEVICE ON THAT CIRCUIT.

SEE THE FOLLOWING EXAMPLE.

D 02 41
- 41 — DEVICE NUMBER ON CIRCUIT
- 02 — CIRCUIT NUMBER IN PANEL
- D — CIRCUIT TYPE
  - 'D' DENOTES CIRCUIT FOR INITIATING DEVICES
  - 'H' DENOTES CIRCUIT FOR STROBES
  - 'S' DENOTES CIRCUIT FOR SPEAKERS

G8. NO INITIATION OR NOTIFICATION CIRCUIT SHALL SERVE MORE THAN ONE FLOOR OF BUILDING UNLESS OTHERWISE NOTED.

G9. STARTER FOR EACH AIR HANDLER BEING MONITORED BY DUCT SMOKE DECTECTOR SHALL HAVE SEPARATE ADDRESSABLE RELAY IN ENCLOSURE MOUNTED NEXT TO STARTER TO ACCOMPLISH STARTER CONTROL.

G10. 120V POWER FOR NEW AUXILIARY POWER SUPPLIES SHALL BE FROM 120V PANELBOARD. CIRCUIT SHALL BE DEDICATED TO AUXILIARY POWER SUPPLY. IN MERRILL HALL, POWER SUPPLIES SHALL BE CIRCUITED TO NEW PANEL 'X' LOCATED IN GROUND FLOOR MACHINE ROOM. IN MUSICAL ARTS, POWER SUPPLIES SHALL BE CIRCUITED TO EXISTING PANEL DESIGNATED AS PANEL 'E' LOCATED IN BASEMENT MACHINE ROOM.

G11. HEAT DETECTORS SHALL BE MONITORED BY SEPARATE ADDRESSABLE RELAY. MORE THAN ONE HEAT DETECTOR MAY BE GROUPED AS SHOWN AND MONITORED BY ONE RELAY. RELAYS SHALL BE LOCATED OUTSIDE AREAS MONITORED BY HEAT DETECTORS.

G12. SEE GENERAL DEMOLITION NOTES ON SHEET 'ED1' FOR ADDITIONAL COORDINATION BETWEEN EXISTING AND NEW SYSTEMS.

G13. CHECKOUT AND TESTING OF DEVICES SHALL BE ACCOMPLISHED AFTER NORMAL WORKING HOURS AND SHALL BE COORDINATED WITH OWNER.

G14. REFERENCES TO PAINTING REQUIRED TO MATCH SURROUNDING SURFACES SHALL BE ACCOMPLISHED BY OWNER.

G15. WHERE CONDUIT IS REQUIRED TO BE CONCEALED IN EXISTING WALL, FLEX CONDUIT SHALL BE ALLOWED. MINIMUM SIZE FLEX SHALL BE 1/2" BUT MAXIMUM CONDUIT FILL SHALL NOT EXCEED N.E.C. REQUIREMENTS. FLEX CONDUIT USED FOR WALLS SHALL BE ALLOWED TO EXTEND NO MORE THAN 36" INTO CEILING SPACE BEFORE BEING CONNECTED TO A JUNCTION BOX FOR TRANSITION TO NON–FLEX CONDUIT. NO OTHER FLEX CONDUIT SHALL BE ALLOWED ABOVE CEILING SPACE.

G16. INTERMEDIATE CONDUIT SHALL BE REQUIRED WHERE EXPOSED IN DOCK AND MECHANICAL ROOM AREAS. EMT CONDUIT MAY BE USED IN OTHER EXPOSED APPLICATIONS.

G17. WHERE ADDRESSABLE RELAYS ARE CALLED FOR, EACH RELAY SHALL BE SEPARATELY MOUNTED. NO COMMON RELAY BOARDS WITH SEVERAL RELAYS ON THE SAME BOARD SHALL BE ALLOWED.

G18. ADRESSABLE RELAYS AND ENCLOSURE FOR CONTROL OF ELEVATOR RECALL SHALL BE LOCATED WITHIN THREE FEET OF ELEVATOR CONTROL PANEL BEING CONTROLLED. CONDUIT AND WIRE FROM ADDRESSABLE RELAY ENCLOSURE TO ELEVATOR CONTROL PANEL SHALL BE BY CONTRACTOR. CONNECTION TO ELEVATOR CONTROL PANEL SHALL BE BY OTHERS.

G19. SEPARATE ENCLOSURE FOR RELAYS TO CONTROL ELEVATOR RECALL SHALL BE LOCATED WITHIN THREE FEET OF ELEVATOR CONTROL PANEL BEING CONTROLLED.

G20. TAP SETTING FOR ALL SPEAKERS SHALL BE SET AT 1.25 WATTS.

G21. AS PER SPECS. & MANUFACTURER RECOMMENDATIONS WIRING SHALL BE AS FOLLOWS:
1. INITIATING (ALD) DEVICE CIRCUITS – WEST PENN 991
2. SPEAKER CIRCUITS – WEST PENN 990
3. STROBE CIRCUITS – WEST PENN 60994

SYMBOLS SCHEDULE

SYMBOL	DESCRIPTION
F	MANUAL PULL STATION
F S	SPEAKER
F S	SPEAKER/STROBE
S	A.D.A. STROBE
P	PRESSURE SWITCH
S	SMOKE DETECTOR
S R	DUCT MOUNTED SMOKE DETECTOR
H	HEAT DETECTOR – SET TEMPERATURE WITH RATE OF RISE. SET TEMPERATURE SHALL BE 200° UNLESS OTHERWISE NOTED.
C	ADDRESSABLE CONTROL MODULE (TRI–B6R)
M	ADDRESSABLE MONITOR MODULE (TRI–B6)
R	ADDRESSABLE RELAY MODULE (TRI–B6R)
M	DUAL ADDRESSABLE MONITOR MODULE (TRI–B6D)
	PANEL OR POWER SUPPLY AS DESIGNATED ON PLANS

Koorsen Protection Services
Fire, Safety & Security Specialist Since 1946
2719 N. ARLINGTON AVE. INDIANAPOLIS IN 46218 (317)542-1800

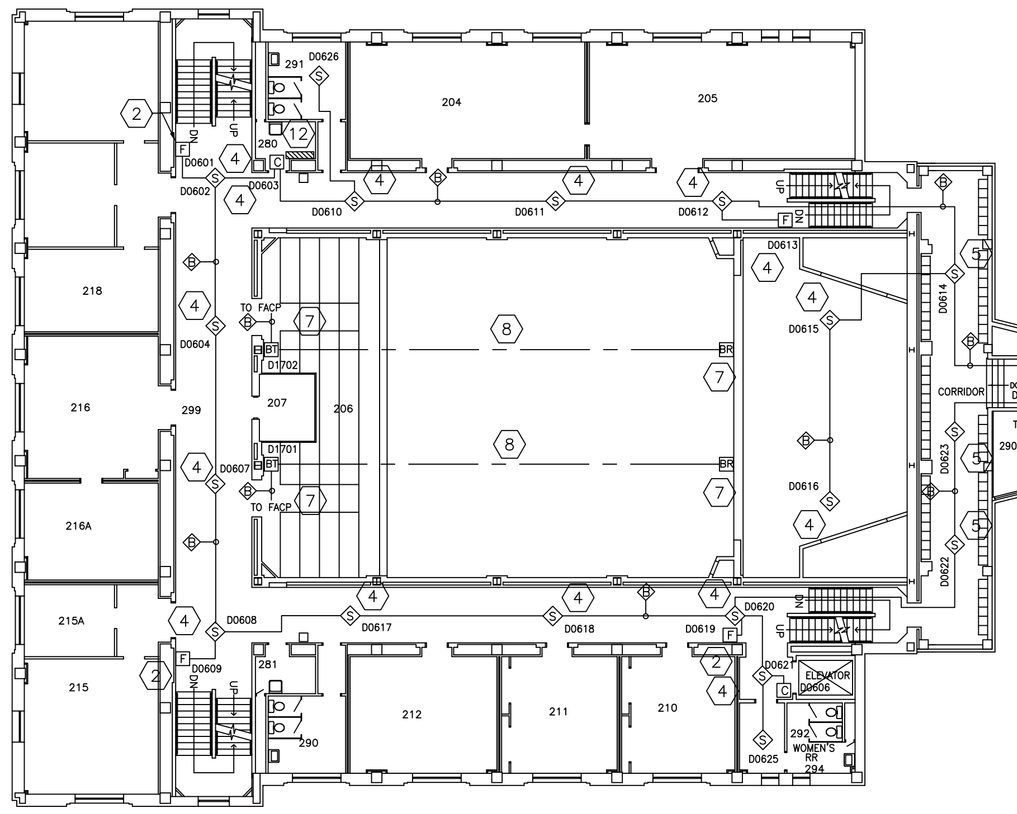
NO.	DESCRIPTION	BY	DATE
	REVISIONS		
1	AS–BUILTS	MH	9/99
2	AS–BUILTS	MH	3/00
3	AS–BUILTS	MH	5/00

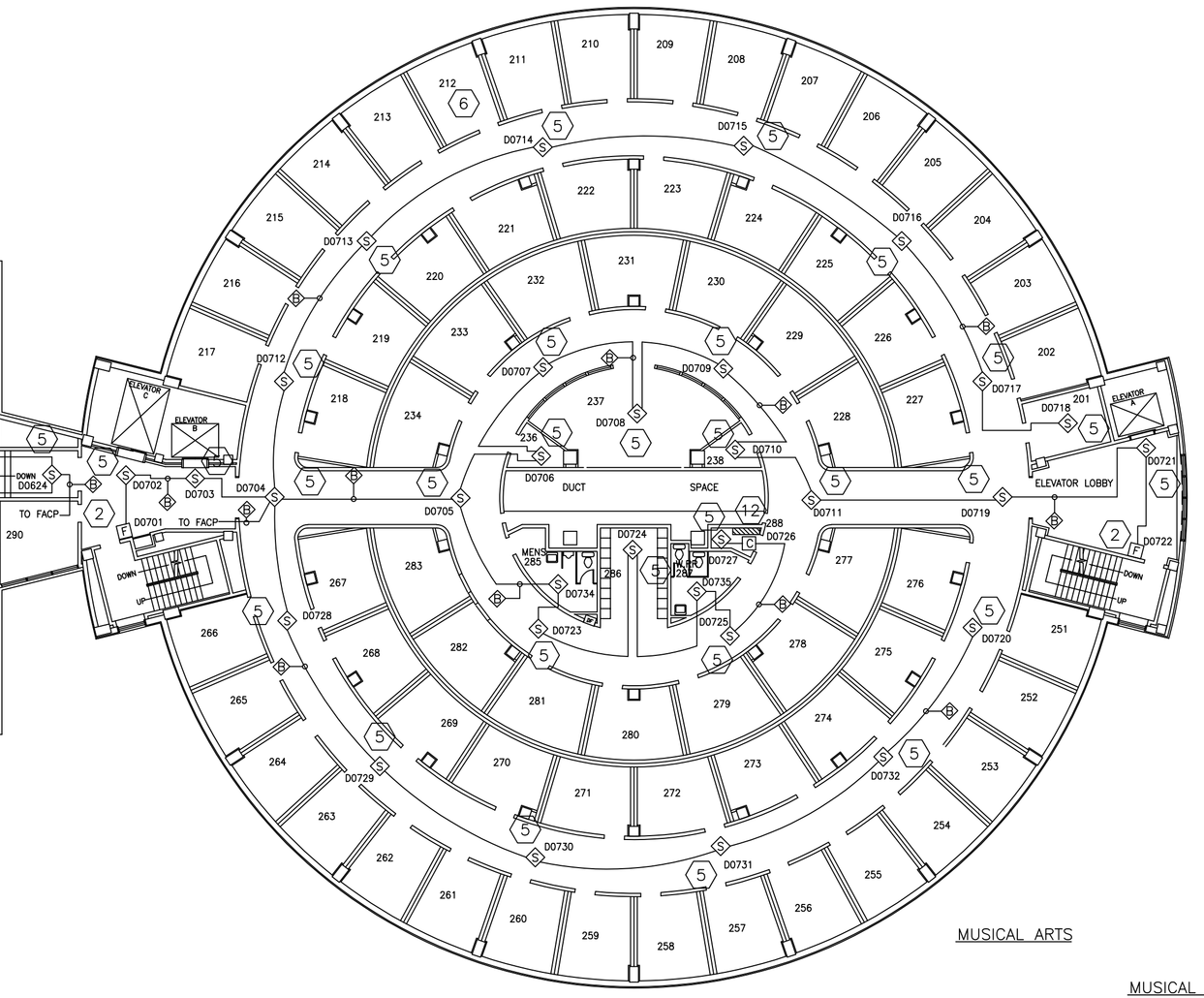
INDIANA UNIVERSITY
MERRILL HALL/MUSICAL ARTS
BLOOMINGTON, INDIANA
FIRE ALARM
BASEMENT & GROUND FLOOR

DRAWN BY: M.H.
DESIGNED BY:
CHECKED BY:
APPROVED BY:
DATE DRAWN: 06/22/98
JOB NO.: 3886
SCALE: 1/16"=1'–0"
SHEET NUMBER 1 OF 11
DRAWING NO: 3886–1

MERRILL HALL

ROOM#	DESCRIPTION
204	MUSIC CLASSRM
205	MUSIC CLASSRM
207	RECORDING
210	IND. STUDY
201	STACKS
211	IND. STUDY
212	IND. STUDY
215	ENTRANCE
215A	IND. STUDY
215B	IND. STUDY
216	STU
216	CIRC DESK
216A	IND.
281	AUDIO STORAGE





MUSICAL ARTS

ROOM#	DESCRIPTION
201	STORAGE
202	OPEN LAB
203	OPEN LAB
204	OPEN LAB
205	OPEN LAB
206	OPEN LAB
207	OPEN LAB
208	OPEN LAB
209	OPEN LAB
210	OPEN LAB
211	OPEN LAB
212	OPEN LAB
213	OPEN LAB
214	OPEN LAB
215	OPEN LAB
216	OPEN LAB
217	OPEN LAB
218	IND. STUDY
219	IND. STUDY
220	IND. STUDY
221	IND. STUDY
222	IND. STUDY
223	IND. STUDY
224	IND. STUDY
225	IND. STUDY
226	IND. STUDY
227	IND. STUDY
228	IND. STUDY
229	IND. STUDY
230	IND. STUDY
231	IND. STUDY
232	IND. STUDY
233	IND. STUDY
234	IND. STUDY
236	STORAGE
237	STUDENT LOUNGE
238	STORAGE
251	IND. STUDY
252	IND. STUDY
253	IND. STUDY
254	IND. STUDY
255	IND. STUDY
256	IND. STUDY
257	IND. STUDY
258	IND. STUDY
259	IND. STUDY
260	IND. STUDY
261	IND. STUDY
262	IND. STUDY
263	IND. STUDY
264	IND. STUDY
265	IND. STUDY
266	IND. STUDY
267	IND. STUDY
268	IND. STUDY
269	IND. STUDY
270	IND. STUDY
271	IND. STUDY
272	IND. STUDY
273	IND. STUDY
274	IND. STUDY
275	IND. STUDY
276	IND. STUDY
277	IND. STUDY
278	IND. STUDY
279	IND. STUDY
280	IND. STUDY
281	IND. STUDY
282	OPEN LAB
283	IND. STUDY
286	STUDENT LOCKERS
290	IND. STUDY

PLAN NOTES:

1. THIS DEVICE SHALL ONLY BE INSTALLED UNDER ALTERNATE #1–'VOICE EVAC.'.

2. NEW DEVICE IS INSTALLED IN SAME LOCATION AS EXISTING DEVICE REMOVED UNDER DEMOLITION PLAN.

3. UNDER ALTERNATE #1–'VOICE EVAC.' THIS DEVICE SHALL BE A SPEAKER/STROBE.

4. DEVICE BOX SHALL BE SURFACE MOUNTED. CONDUIT SHALL BE ROUTED EXPOSED.

5. DEVICE BOX SHALL BE FLUSH MOUNTED IN SUSPENDED CEILING. CONDUIT SHALL BE ROUTED ABOVE CEILING.

6. DEVICE BOX SHALL BE SURFACE MOUNTED. ROUTE CIRCUIT IN SURFACE MOUNTED RACEWAY UP TO ABOVE CEILING THEN IN CONDUIT ABOVE CEILING.

7. DEVICE BOX SHALL BE SURFACE MOUNTED. ROUTE CIRCUIT IN CONDUIT THROUGH WALL TO ADJACENT SPACE THEN IN EXPOSED CONDUIT UP. NO CONDUIT OR RACEWAY SHALL BE VISIBLE ON THIS SIDE OF WALL.

8. LINE OF BEAM BETWEEN BEAM RECEIVER AND TRANSMITTER.

9. DEVICE BOX SHALL BE SURFACE MOUNTED. ROUTE CIRCUIT IN SURFACE MOUNTED RACEWAY.

10. DEVICE BOX SHALL BE SURFACE MOUNTED. ROUTE CIRCUIT FROM DEVICE IN CONDUIT THROUGH WALL TO ADJACENT SPACE, THEN IN SURFACE MOUNTED RACEWAY UP. NO CONDUIT OR RACEWAY SHALL BE VISIBLE ON THIS SIDE OF WALL.

11. DEVICE SHALL BE WALL MOUNTED.

12. LOCATION FOR A.D.A. STROBE AUXILIARY POWER SUPPLIES.

SECOND FLOOR PLAN – ALD LOOPS

SCALE: 1/16" = 1'–0"

MERRILL HALL

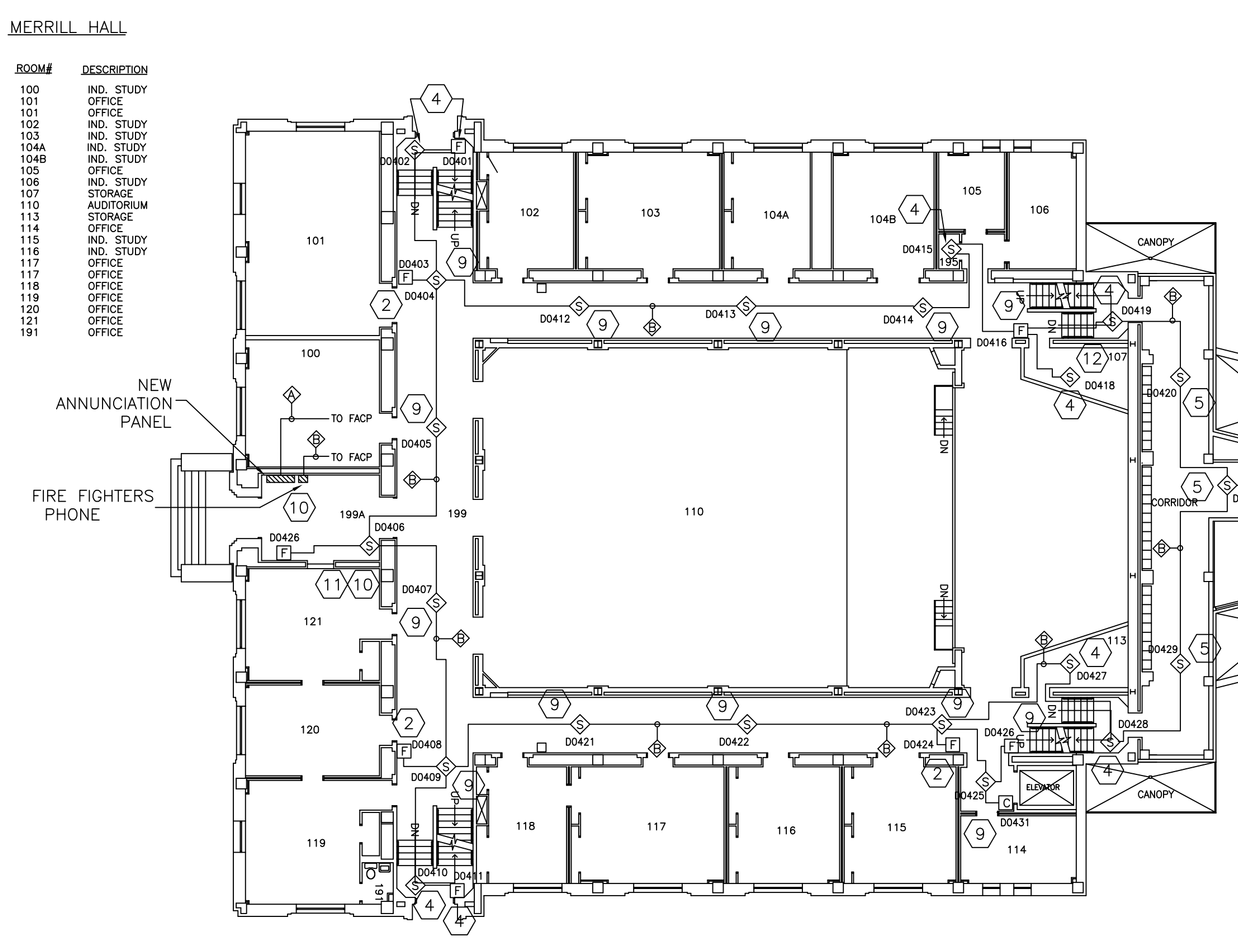
MUSICAL ARTS

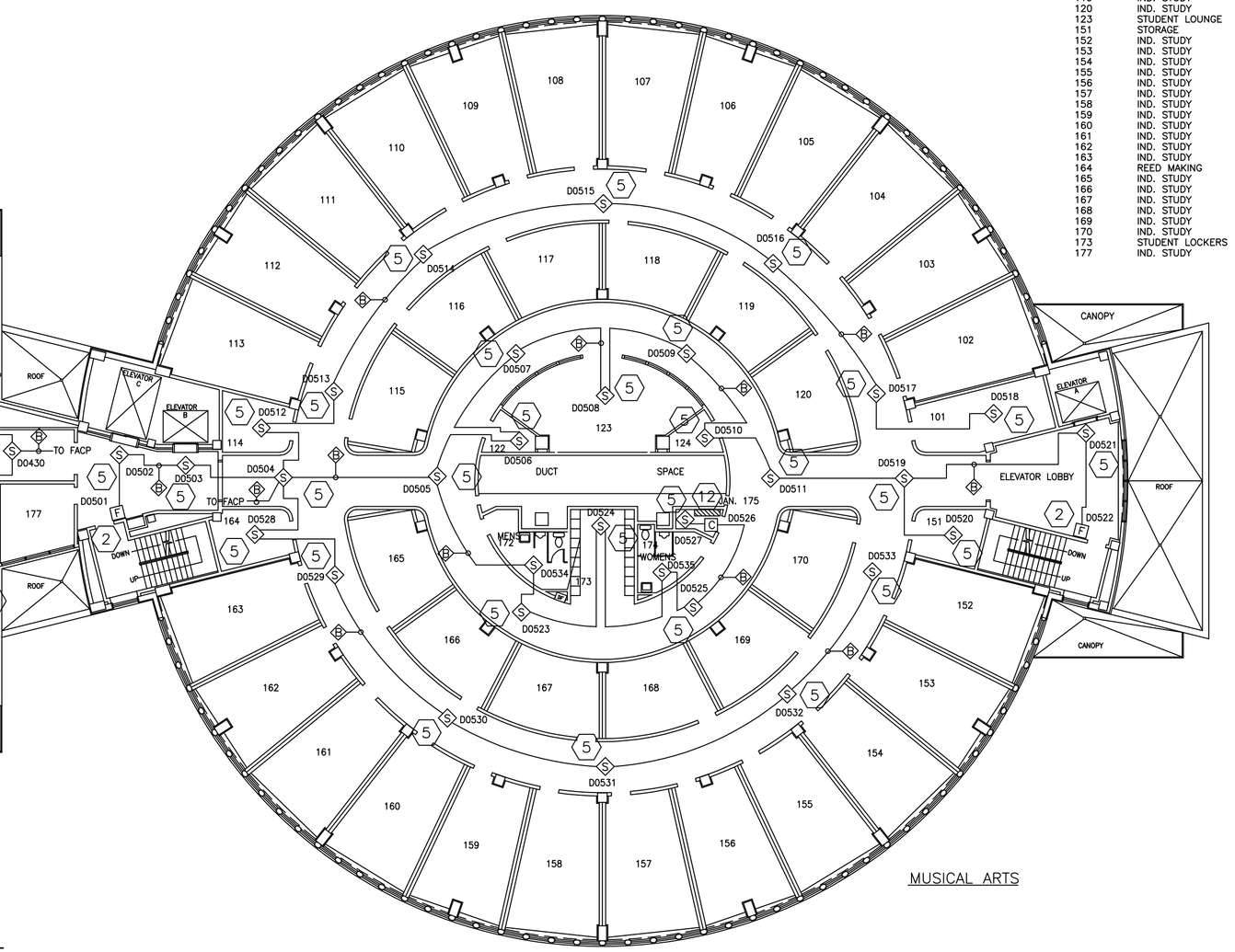
MUSICAL ARTS

ROOM#	DESCRIPTION
101	CLOSET
102	IND. STUDY
103	EMERIT OFFICE
104	IND. STUDY
105	IND. STUDY
106	IND. STUDY
107	IND. STUDY
108	IND. STUDY
109	IND. STUDY
110	IND. STUDY
111	IND. STUDY
112	IND. STUDY
113	IND. STUDY
114	ARCHIVES
115	IND. STUDY
116	IND. STUDY
117	IND. STUDY
118	IND. STUDY
119	IND. STUDY
120	IND. STUDY
123	STUDENT LOUNGE
151	STORAGE
152	IND. STUDY
153	IND. STUDY
154	IND. STUDY
155	IND. STUDY
156	IND. STUDY
157	IND. STUDY
158	IND. STUDY
159	IND. STUDY
160	IND. STUDY
161	IND. STUDY
162	IND. STUDY
163	IND. STUDY
164	REED MAKING
165	IND. STUDY
166	IND. STUDY
167	IND. STUDY
168	IND. STUDY
169	IND. STUDY
170	IND. STUDY
173	STUDENT LOCKERS
177	IND. STUDY

MERRILL HALL

ROOM#	DESCRIPTION
100	IND. STUDY
101	OFFICE
101	OFFICE
102	IND. STUDY
103	IND. STUDY
104A	IND. STUDY
104B	IND. STUDY
105	OFFICE
106	IND. STUDY
107	STORAGE
110	AUDITORIUM
113	STORAGE
114	OFFICE
115	IND. STUDY
116	IND. STUDY
117	OFFICE
117	OFFICE
118	OFFICE
119	OFFICE
120	OFFICE
121	OFFICE
191	OFFICE





MERRILL HALL

MUSICAL ARTS

FIRST FLOOR PLAN – ALD LOOPS

SCALE: 1/16" = 1'–0"

SYMBOLS SCHEDULE

SYMBOL	DESCRIPTION
F	MANUAL PULL STATION
F	SPEAKER
F	SPEAKER/STROBE
H	A.D.A. STROBE
PS	PRESSURE SWITCH
S	SMOKE DETECTOR
S_D	DUCT MOUNTED SMOKE DETECTOR
H	HEAT DETECTOR – SET TEMPERATURE WITH RATE OF RISE. SET TEMPERATURE SHALL BE 200° UNLESS OTHERWISE NOTED.
C	ADDRESSABLE CONTROL MODULE (TRI–B6R)
M	ADDRESSABLE MONITOR MODULE (TRI–B6)
R	ADDRESSABLE RELAY MODULE (TRI–B6R)
BR	BEAM DETECTOR REFLECTOR
BT	BEAM DETECTOR TRANSMITTER
	PANEL OR POWER SUPPLY AS DESIGNATED ON PLANS

WIRING SCHEDULE

- (A) FACP TO ANNUNCIATOR: ONE PAIR 16 AWG TWISTED, SHIELDED & ONE PAIR 14 AWG TWISTED.
- (B) ALD CIRCUITS: ONE PAIR 16 AWG TWISTED, SHIELDED.
- (C) STROBE CIRCUIT: ONE PAIR 12 AWG TWISTED, SHIELDED.
- (D) SPEAKER CIRCUIT: ONE PAIR 16 AWG TWISTED.

Koorsen Protection Services
Fire, Safety & Security Specialist Since 1946
2719 N. ARLINGTON AVE. INDIANAPOLIS IN 46218 (317)542–1800

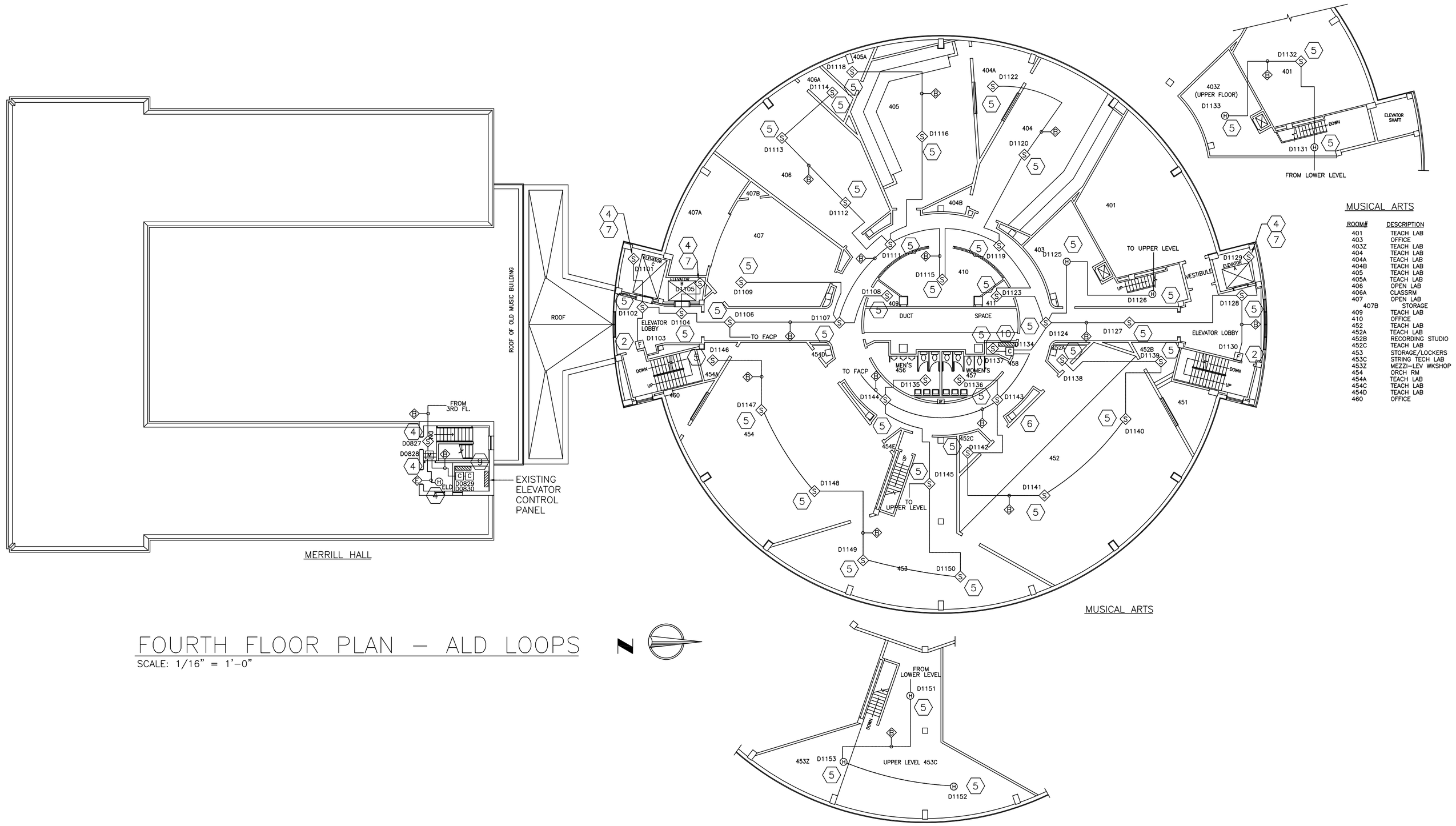
NO.	DESCRIPTION	BY	DATE
	REVISIONS		
1	AS–BUILTS	MH	9/99

INDIANA UNIVERSITY
MERRILL HALL/MUSICAL ARTS
BLOOMINGTON, INDIANA
FIRE ALARM
FIRST & SECOND FLOOR

DRAWN BY: M.H.
DESIGNED BY:
CHECKED BY:
APPROVED BY:
DATE DRAWN: 06/22/98
JOB NO.: 3886
SCALE: 1/16"–1'–0"

SHEET NUMBER
2 OF 11

DRAWING NO: 3886–2



ROOM#	DESCRIPTION
401	TEACH LAB
403	OFFICE
403Z	TEACH LAB
404	TEACH LAB
404A	TEACH LAB
404B	TEACH LAB
405	TEACH LAB
405A	TEACH LAB
406	OPEN LAB
406A	CLASSRM
407	OPEN LAB
407B	STORAGE
409	TEACH LAB
410	OFFICE
452	TEACH LAB
452A	TEACH LAB
452B	RECORDING STUDIO
452C	TEACH LAB
453	STORAGE/LOCKERS
453C	STRING TECH LAB
453Z	MEZZI-LEV WKSHOP
454	ORCH RM
454A	TEACH LAB
454C	TEACH LAB
454D	TEACH LAB
460	OFFICE

PLAN NOTES:

1. THIS DEVICE SHALL ONLY BE INSTALLED UNDER ALTERNATE #1–'VOICE EVAC.'.

2. NEW DEVICE IS INSTALLED IN SAME LOCATION AS EXISTING DEVICE REMOVED UNDER DEMOLITION PLAN.

3. UNDER ALTERNATE #1–'VOICE EVAC.' THIS DEVICE SHALL BE A SPEAKER/STROBE.

4. DEVICE BOX SHALL BE SURFACE MOUNTED. CONDUIT SHALL BE ROUTED EXPOSED.

5. DEVICE BOX SHALL BE FLUSH MOUNTED IN SUSPENDED CEILING. CONDUIT SHALL BE ROUTED ABOVE CEILING.

6. DEVICE BOX SHALL BE SURFACE MOUNTED. ROUTE CIRCUIT IN SURFACE MOUNTED RACEWAY UP TO ABOVE CEILING THEN IN CONDUIT ABOVE CEILING.

7. DEVICE SHALL BE LOCATED IN TOP OF SHAFT.

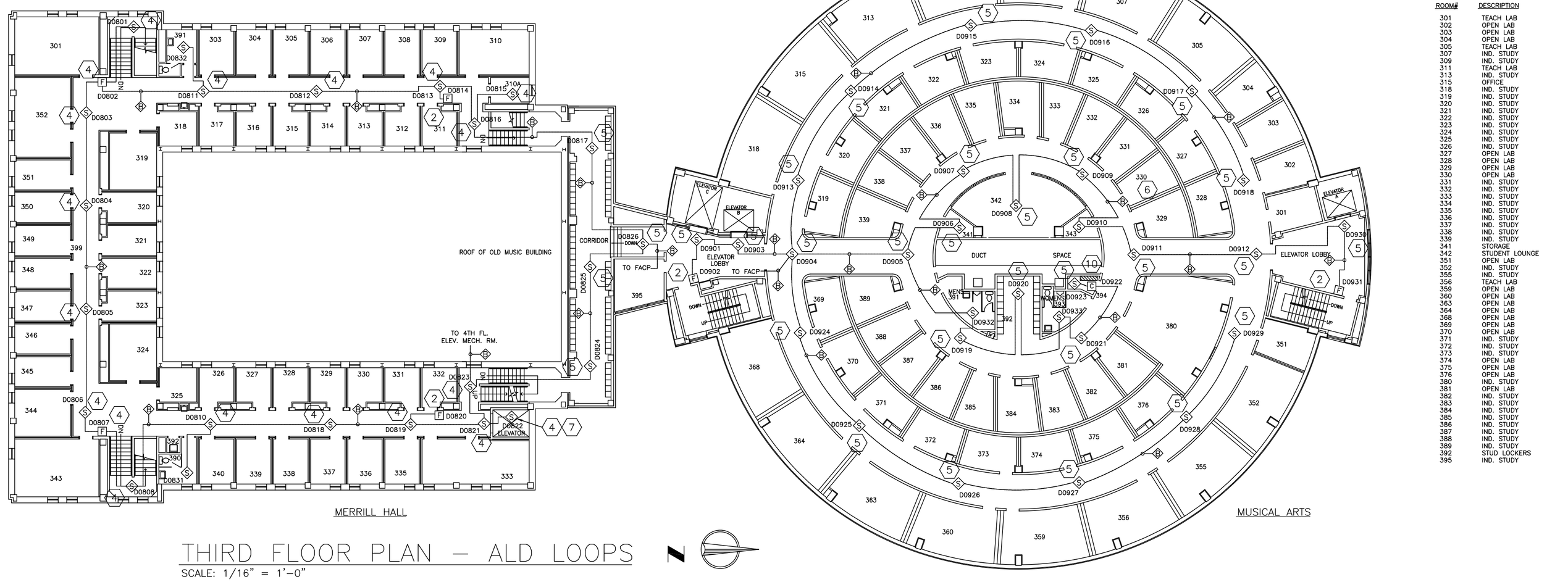
8. NOT USED.

9. NEW ENCLOSURE AND FIRE ALARM ADDRESSABLE RELAYS FOR ELEVATOR RECALL. WIRE AND CONNECTIONS BETWEEN RELAYS AND ELEVATOR CONTROL PANEL SHALL BE BY OTHERS.

10. LOCATION FOR A.D.A. STROBE AUXILIARY POWER SUPPLIES.

FOURTH FLOOR PLAN – ALD LOOPS

SCALE: 1/16" = 1'–0"



ROOM#	DESCRIPTION
301	IND. STUDY
303	IND. STUDY
304	IND. STUDY
305	IND. STUDY
306	IND. STUDY
307	IND. STUDY
308	IND. STUDY
309	IND. STUDY
310	IND. STUDY
310A	OFFICE
311	OFFICE
312	OFFICE
313	OFFICE
314	OFFICE
315	OFFICE
316	OFFICE
317	OFFICE
318	EMI. LIBRARY
319	IND. STUDY
320	IND. STUDY
321	IND. STUDY
322	IND. STUDY
323	IND. STUDY
324	IND. STUDY
325	IND. STUDY
326	IND. STUDY
327	IND. STUDY
328	IND. STUDY
329	IND. STUDY
330	IND. STUDY
331	IND. STUDY
332	IND. STUDY
333	OPEN LAB
335	IND. STUDY
336	IND. STUDY
337	IND. STUDY
338	IND. STUDY
339	IND. STUDY
340	IND. STUDY
343	IND. STUDY
344	IND. STUDY
345	IND. STUDY
346	IND. STUDY
347	IND. STUDY
348	IND. STUDY
349	IND. STUDY
350	IND. STUDY
351	IND. STUDY
352	IND. STUDY

ROOM#	DESCRIPTION
301	TEACH LAB
302	OPEN LAB
303	OPEN LAB
304	OPEN LAB
305	TEACH LAB
307	IND. STUDY
309	IND. STUDY
311	TEACH LAB
313	IND. STUDY
315	OFFICE
318	IND. STUDY
319	IND. STUDY
320	IND. STUDY
321	IND. STUDY
322	IND. STUDY
323	IND. STUDY
324	IND. STUDY
325	IND. STUDY
326	IND. STUDY
327	OPEN LAB
328	OPEN LAB
329	OPEN LAB
330	OPEN LAB
331	IND. STUDY
332	IND. STUDY
333	IND. STUDY
334	IND. STUDY
335	IND. STUDY
336	IND. STUDY
337	IND. STUDY
338	IND. STUDY
339	IND. STUDY
341	STORAGE
342	STUDENT LOUNGE
351	OPEN LAB
352	IND. STUDY
355	IND. STUDY
356	TEACH LAB
359	OPEN LAB
360	OPEN LAB
363	OPEN LAB
364	OPEN LAB
368	OPEN LAB
369	OPEN LAB
370	OPEN LAB
371	IND. STUDY
372	IND. STUDY
373	IND. STUDY
374	IND. STUDY
375	OPEN LAB
376	OPEN LAB
380	IND. STUDY
381	OPEN LAB
382	IND. STUDY
383	IND. STUDY
384	IND. STUDY
385	IND. STUDY
386	IND. STUDY
387	IND. STUDY
388	IND. STUDY
389	IND. STUDY
392	STUD LOCKERS
395	IND. STUDY

THIRD FLOOR PLAN – ALD LOOPS

SCALE: 1/16" = 1'–0"

SYMBOLS SCHEDULE

SYMBOL	DESCRIPTION
F	MANUAL PULL STATION
F	SPEAKER
F	SPEAKER/STROBE
	A.D.A. STROBE
S	SMOKE DETECTOR
S	DUCT MOUNTED SMOKE DETECTOR
H	HEAT DETECTOR – SET TEMPERATURE WITH RATE OF RISE. SET TEMPERATURE SHALL BE 200° UNLESS OTHERWISE NOTED.
C	ADDRESSABLE CONTROL MODULE (TRI–B6R)
M	ADDRESSABLE MONITOR MODULE (TRI–B6)
R	ADDRESSABLE RELAY MODULE (TRI–B6R)
	PANEL OR POWER SUPPLY AS DESIGNATED ON PLANS

WIRING SCHEDULE

- A FACP TO ANNUNCIATOR: ONE PAIR 16 AWG TWISTED, SHIELDED & ONE PAIR 14 AWG TWISTED.
- B ALD CIRCUITS: ONE PAIR 16 AWG TWISTED, SHIELDED.
- C STROBE CIRCUIT: ONE PAIR 12 AWG TWISTED, SHIELDED.
- D SPEAKER CIRCUIT: ONE PAIR 16 AWG TWISTED.
- E TRI CIRCUITS: ONE PAIR 18 AWG TWISTED, SHIELDED.

Koorsen Protection Services
Fire, Safety & Security Specialist Since 1946
2719 N. ARLINGTON AVE. INDIANAPOLIS IN 46218 (317)542-1800

NO.	DESCRIPTION	BY	DATE
1	AS-BUILTS	MH	9/99
2	AS-BUILTS	MH	5/00

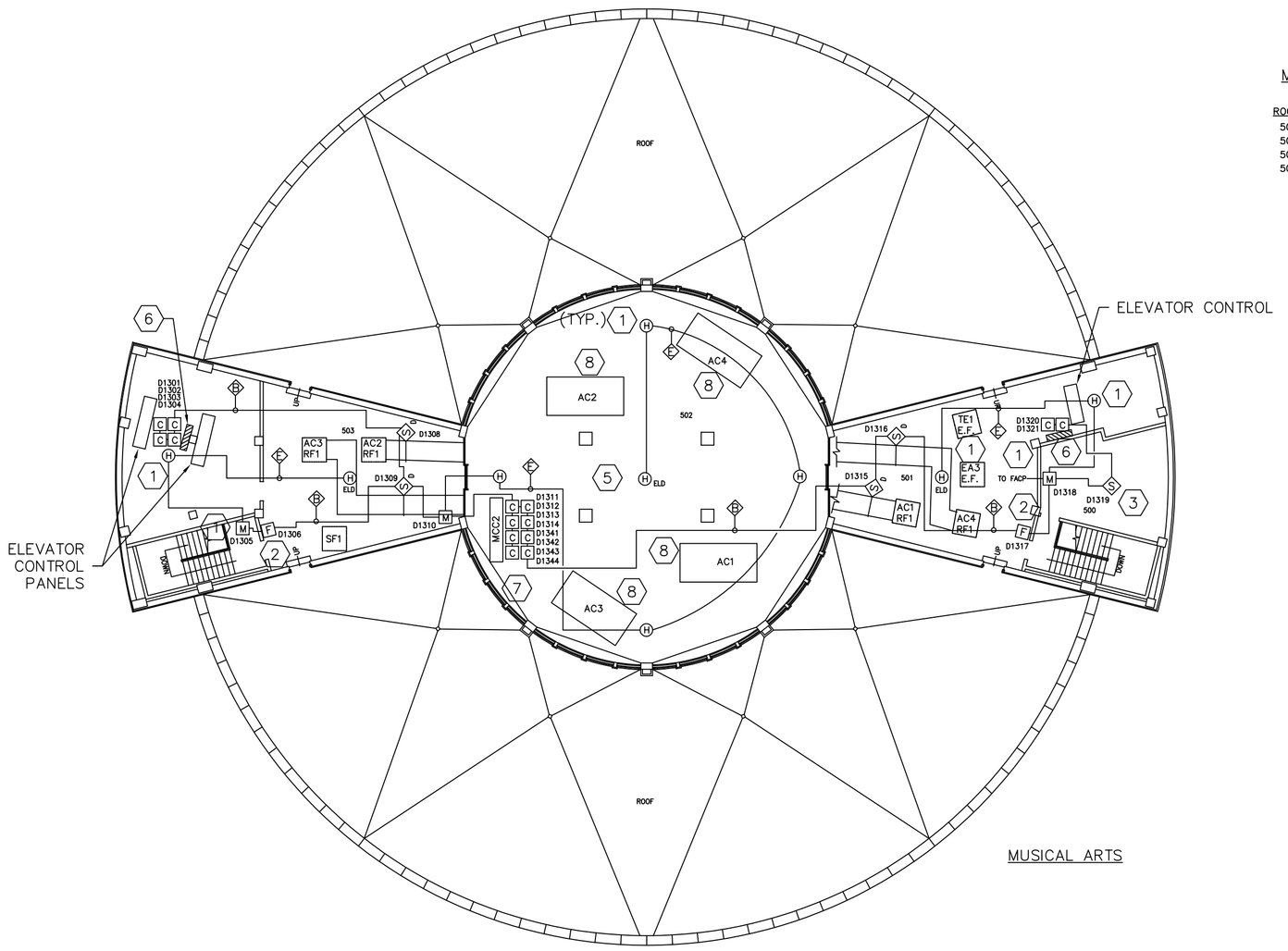
REVISIONS

INDIANA UNIVERSITY
MERRILL HALL/MUSICAL ARTS
BLOOMINGTON, INDIANA
FIRE ALARM
THIRD & FOURTH FLOOR

DRAWN BY: M.H.
DESIGNED BY:
CHECKED BY:
APPROVED BY:
DATE DRAWN: 06/22/98
JOB NO.: 3886
SCALE: 1/16"=1'–0"

SHEET NUMBER
3
OF
11

DRAWING NO: 3886–3



MUSICAL ARTS

ROOM#	DESCRIPTION
500	TEACH LAB
501	PENTHOUSE
502	MECH. EQ. ROOM
503	PENTHOUSE

FIFTH FLOOR PLAN – ALD LOOPS

SCALE: 1/16" = 1'–0"

PLAN NOTES:

1. DEVICE BOX SHALL BE SURFACE MOUNTED. CONDUIT SHALL BE ROUTED EXPOSED.

2. NEW DEVICE IS INSTALLED IN SAME LOCATION AS EXISTING DEVICE REMOVED UNDER DEMOLITION PLAN.

3. DEVICE BOX SHALL BE FLUSH MOUNTED IN SUSPENDED CEILING. CONDUIT SHALL BE ROUTED ABOVE CEILING.

4. DEVICE BOX SHALL BE SURFACE MOUNTED. ROUTE CIRCUIT IN SURFACE MOUNTED RACEWAY UP TO ABOVE CEILING THEN IN CONDUIT ABOVE CEILING.

5. ALL DEVICES IN MECHANICAL ROOMS SHALL BE SURFACE MOUNTED. CIRCUITS SHALL BE ROUTED IN EXPOSED CONDUIT.

6. NEW ENCLOSURE WITH ADDRESSABLE RELAYS FOR ELEVATOR CONTROL. CONTRACTOR SHALL ROUTE CONDUIT FROM NEW ENCLOSURES TO ELEVATOR CONTROL PANELS. OWNER SHALL PULL WIRING AND MAKE CONNECTIONS BETWEEN ADDRESSABLE RELAYS AND ELEVATOR CONTROL.

7. ALL FAN UNITS SHOWN ON THIS SHEET ARE SERVED BY STARTERS IN 'MCC2'. CONTRACTOR SHALL MOUNT NEW ENCLOSURE WITH ADDRESSABLE RELAYS FOR FAN CONTROL AS NEAR AS POSSIBLE TO 'MCC2'. ENCLOSURE SHALL HOUSE SEPARATE ADDRESSABLE RELAYS FOR EACH AIR HANDLER. CONTRACTOR SHALL ROUTE 1–1/4" CONDUIT FROM NEW ENCLOSURE TO 'MCC2'. OWNER SHALL PULL WIRING AND MAKE CONNECTORS BETWEEN RELAYS AND AIR HANDLER STARTERS.

8. AC–1 DUCTWORK SHALL REQUIRE EIGHT DUCT SMOKE DETECTORS IN THIS ROOM. ADDRESSES ARE D1201–D1208
AC–2 DUCTWORK SHALL REQUIRE EIGHT DUCT SMOKE DETECTORS IN THIS ROOM. ADDRESSES ARE D1209–D1216
AC–3 DUCTWORK SHALL REQUIRE TWELVE DUCT SMOKE DETECTORS IN THIS ROOM. ADDRESSES ARE D1217–D1228
AC–4 DUCTWORK SHALL REQUIRE TWELVE DUCT SMOKE DETECTORS IN THIS ROOM. ADDRESSES ARE D1229–D1240
CONTRACTOR SHALL COORDINATE WITH OWNER IN FIELD TO VERIFY LOCATIONS FOR NEW DUCT SMOKE DETECTORS IN THIS ROOM PRIOR TO INSTALLATION.

SYMBOLS SCHEDULE

SYMBOL	DESCRIPTION
F	MANUAL PULL STATION
F	SPEAKER
F	SPEAKER/STROBE
	A.D.A. STROBE
	SMOKE DETECTOR
	DUCT MOUNTED SMOKE DETECTOR
H	HEAT DETECTOR – SET TEMPERATURE WITH RATE OF RISE. SET TEMPERATURE SHALL BE 200° UNLESS OTHERWISE NOTED.
C	ADDRESSABLE CONTROL MODULE (TRI–B6R)
M	ADDRESSABLE MONITOR MODULE (TRI–B6)
R	ADDRESSABLE RELAY MODULE (TRI–B6R)
	PANEL OR POWER SUPPLY AS DESIGNATED ON PLANS

WIRING SCHEDULE

- (A) FACP TO ANNUNCIATOR: ONE PAIR 16 AWG TWISTED, SHIELDED & ONE PAIR 14 AWG TWISTED.
- (B) ALD CIRCUITS: ONE PAIR 16 AWG TWISTED, SHIELDED.
- (C) STROBE CIRCUIT: ONE PAIR 12 AWG TWISTED, SHIELDED.
- (D) SPEAKER CIRCUIT: ONE PAIR 16 AWG TWISTED.
- (E) TRI CIRCUITS: ONE PAIR 18 AWG TWISTED, SHIELDED.

Koorsen Protection Services
Fire, Safety & Security Specialist Since 1946
2719 N. ARLINGTON AVE. INDIANAPOLIS IN 46218 (317)542–1800

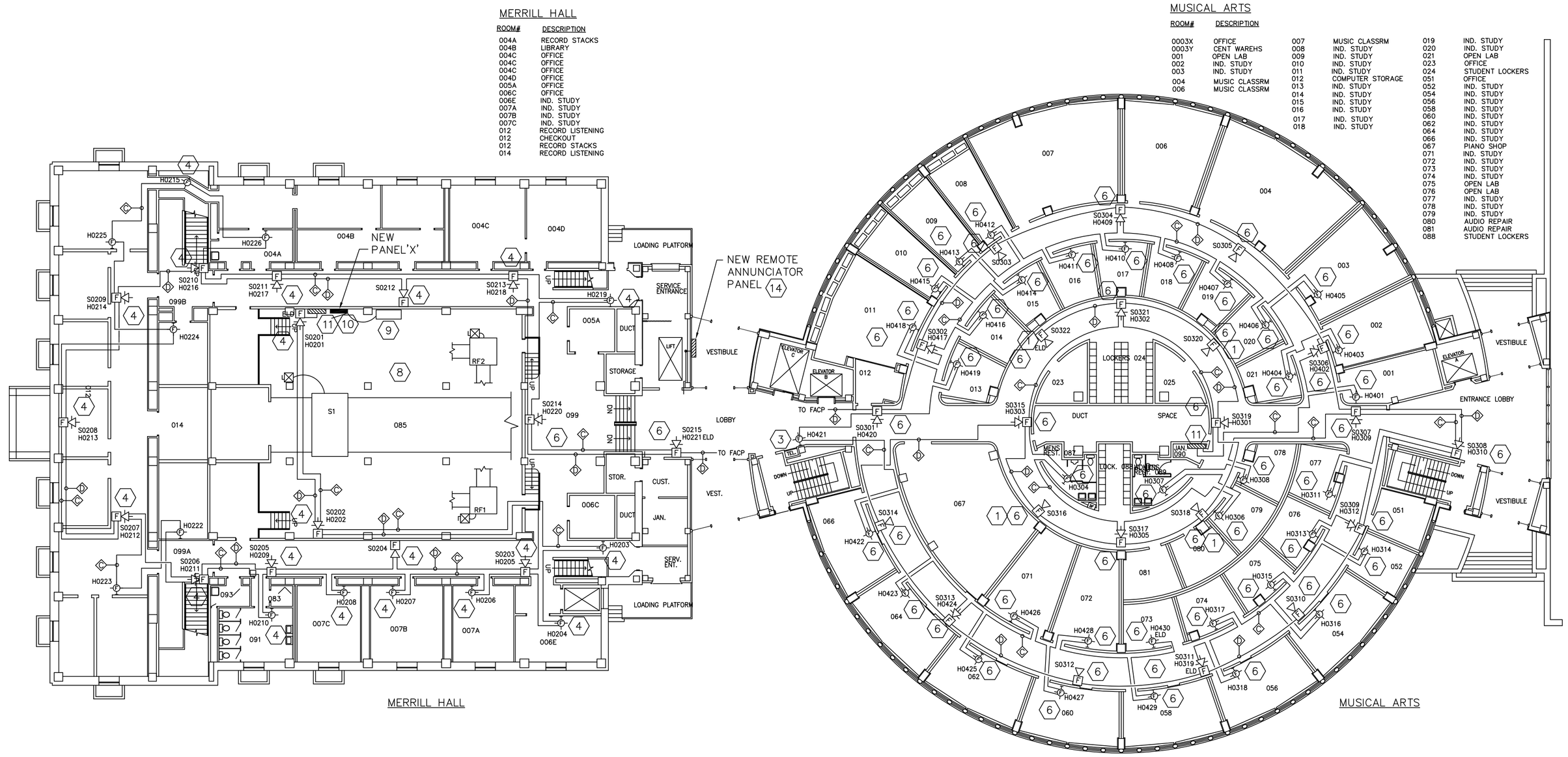
NO.	DESCRIPTION	BY	DATE
	REVISIONS		
1	AS–BUILTS	MH	9/99

INDIANA UNIVERSITY
MERRILL HALL/MUSICAL ARTS
BLOOMINGTON, INDIANA
FIRE ALARM
FIFTH FLOOR

DRAWN BY: M.H.
DESIGNED BY:
CHECKED BY:
APPROVED BY:
DATE DRAWN: 06/22/98
JOB NO.: 3886
SCALE: 1/16"=1'–0"

SHEET NUMBER
4
OF
11

DRAWING NO: 3886–4

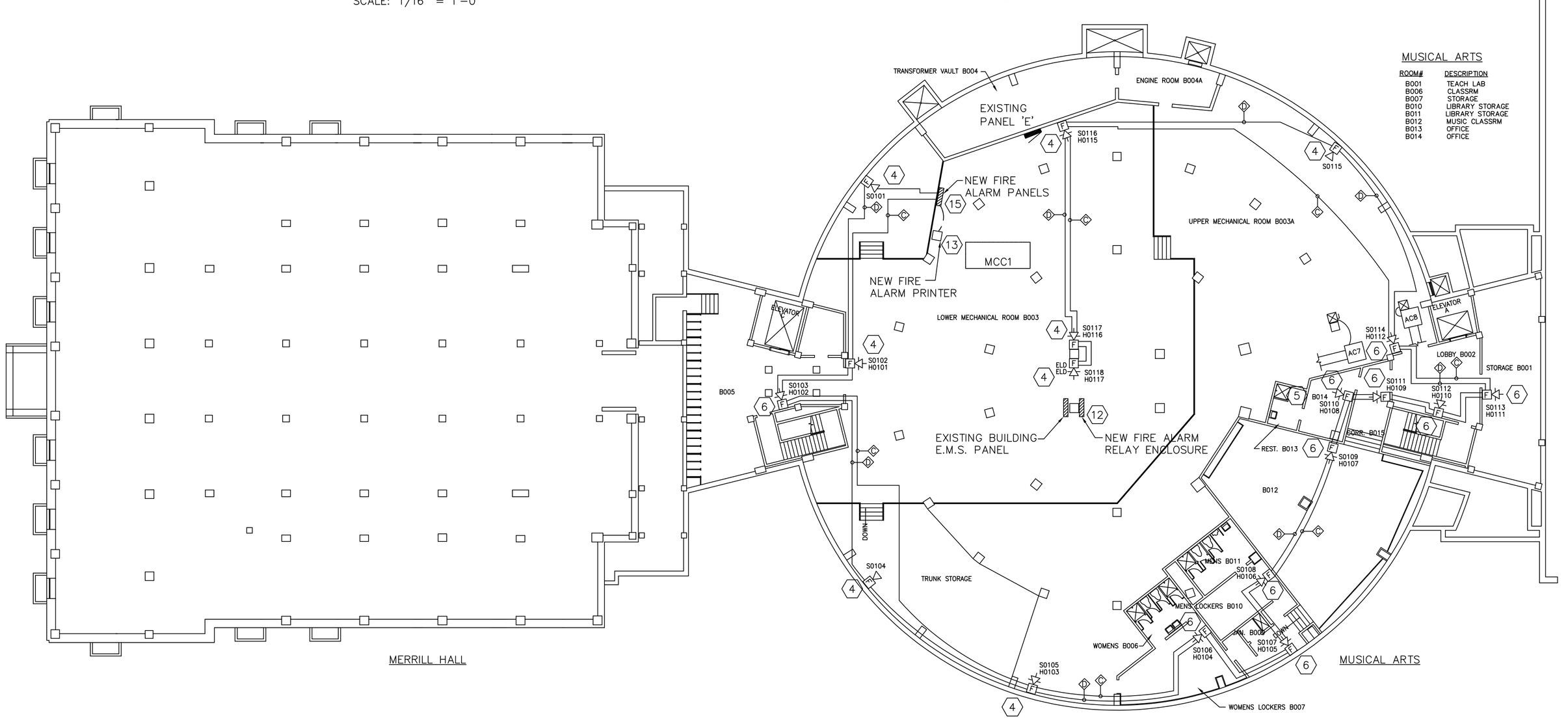


GROUND FLOOR PLAN — AUDIBLE LOOPS

SCALE: 1/16" = 1'-0"

PLAN NOTES:

1. THIS DEVICE SHALL ONLY BE INSTALLED UNDER ALTERNATE #1–'VOICE EVAC.'.
2. NEW DEVICE IS INSTALLED IN SAME LOCATION AS EXISTING DEVICE REMOVED UNDER DEMOLITION PLAN.
3. UNDER ALTERNATE #1–'VOICE EVAC.' THIS DEVICE SHALL BE A SPEAKER/STROBE.
4. DEVICE BOX SHALL BE SURFACE MOUNTED. CONDUIT SHALL BE ROUTED EXPOSED.
5. DEVICE BOX SHALL BE FLUSH MOUNTED IN SUSPENDED CEILING. CONDUIT SHALL BE ROUTED ABOVE CEILING.
6. DEVICE BOX SHALL BE SURFACE MOUNTED. ROUTE CIRCUIT IN SURFACE MOUNTED RACEWAY UP TO ABOVE CEILING THEN IN CONDUIT ABOVE CEILING.
7. MOUNT ADDRESSABLE RELAY IN ENCLOSURE AS NEAR TO STARTER AS POSSIBLE FOR CONTROL OF FAN SHUT DOWN.
8. ROUTE CIRCUITS FOR ALL DEVICES IN MECHANICAL ROOMS IN EXPOSED CONDUIT.
9. EXISTING DISTRIBUTION PANEL. INSTALL NEW 60AMP FUSES IN EXISTING SPARE 3POLE SWITCH TO SERVE NEW PANEL 'X'.
10. NEW PANEL 'X' SHALL BE 208Y/120V, 3PH, 4W, 60AMP MAIN BREAKER, SURFACE MOUNT. BRANCH OVERCURRENT DEVICES SHALL BE 30EA. 20A/1P BREAKERS. PANEL FEEDER SHALL BE 4#6 & #8G IN 1"C ROUTED TO EXISTING 3POLE SWITCH IN EXISTING DISTRIBUTION PANEL.
11. LOCATION FOR A.D.A. STROBE AUXILIARY POWER SUPPLIES.
12. NEW ENCLOSURE FOR ADDRESSABLE FIRE ALARM SYSTEM RELAYS. EACH AIR HANDLER CONTROLLED BY DUCT SMOKE DETECTOR SHALL HAVE CORRESPONDING RELAY IN THE ENCLOSURE WHICH SHALL SIGNAL BUILDING E.M.S. PANEL WHEN THE AIR HANDLER HAS BEEN SHUT DOWN BY DUCT SMOKE DETECTOR. WIRING FROM FIRE ALARM RELAY ENCLOSURE TO E.M.S. PANEL SHALL BE BY CONTRACTOR. CONNECTION TO EMS PANEL SHALL BE BY OTHERS.
13. CONTRACTOR SHALL FURNISH AND INSTALL FLOOR MOUNTED METAL PRINTER CABINET TO HOUSE PRINTER. CABINET SHALL FEATURE LOCKING ENCLOSURE TO HOUSE PRINTER, PAPER SUPPLY AND PRINTOUT RECEIVING TRAY, ENCLOSURE SHALL ALSO FEATURE VIEWING WINDOW TO VIEW PRINTOUT WITHOUT OPENING ENCLOSURE.
14. NEW ANNUNCIATOR PANEL SHALL BE SURFACE MOUNTED ON MARBLE WALL. CONDUIT SHALL BE ROUTED FROM BEHIND PANEL DIRECTLY THROUGH WALL TO ADJACENT SPACE AS SHOWN THEN UP AND INTO SPACE ABOVE CEILING IN CORRIDOR.
15. 120V CIRCUITS REQUIRED FOR NEW FIRE ALARM PANEL AND PRINTER SHALL BE CIRCUITED TO EXISTING PANEL 'E'.



BASEMENT FLOOR PLAN — AUDIBLE LOOPS

SCALE: 1/16" = 1'-0"

SYMBOLS SCHEDULE

SYMBOL	DESCRIPTION
F	MANUAL PULL STATION
F	SPEAKER
F	SPEAKER/STROBE
	A.D.A. STROBE
	SMOKE DETECTOR
	DUCT MOUNTED SMOKE DETECTOR
H	HEAT DETECTOR – SET TEMPERATURE WITH RATE OF RISE. SET TEMPERATURE SHALL BE 200° UNLESS OTHERWISE NOTED.
C	ADDRESSABLE CONTROL MODULE (TRI-B6R)
M	ADDRESSABLE MONITOR MODULE (TRI-B6)
R	ADDRESSABLE RELAY MODULE (TRI-B6R)
	PANEL OR POWER SUPPLY AS DESIGNATED ON PLANS

WIRING SCHEDULE

- (A) FACP TO ANNUNCIATOR: ONE PAIR 16 AWG TWISTED, SHIELDED & ONE PAIR 14 AWG TWISTED.
- (B) ALD CIRCUITS: ONE PAIR 16 AWG TWISTED, SHIELDED.
- (C) STROBE CIRCUIT: ONE PAIR 12 AWG TWISTED, SHIELDED.
- (D) SPEAKER CIRCUIT: ONE PAIR 16 AWG TWISTED.

Korsen Protection Services
Fire, Safety & Security Specialist Since 1946
2719 N. ARLINGTON AVE. INDIANAPOLIS IN 46218 (317)542-1800

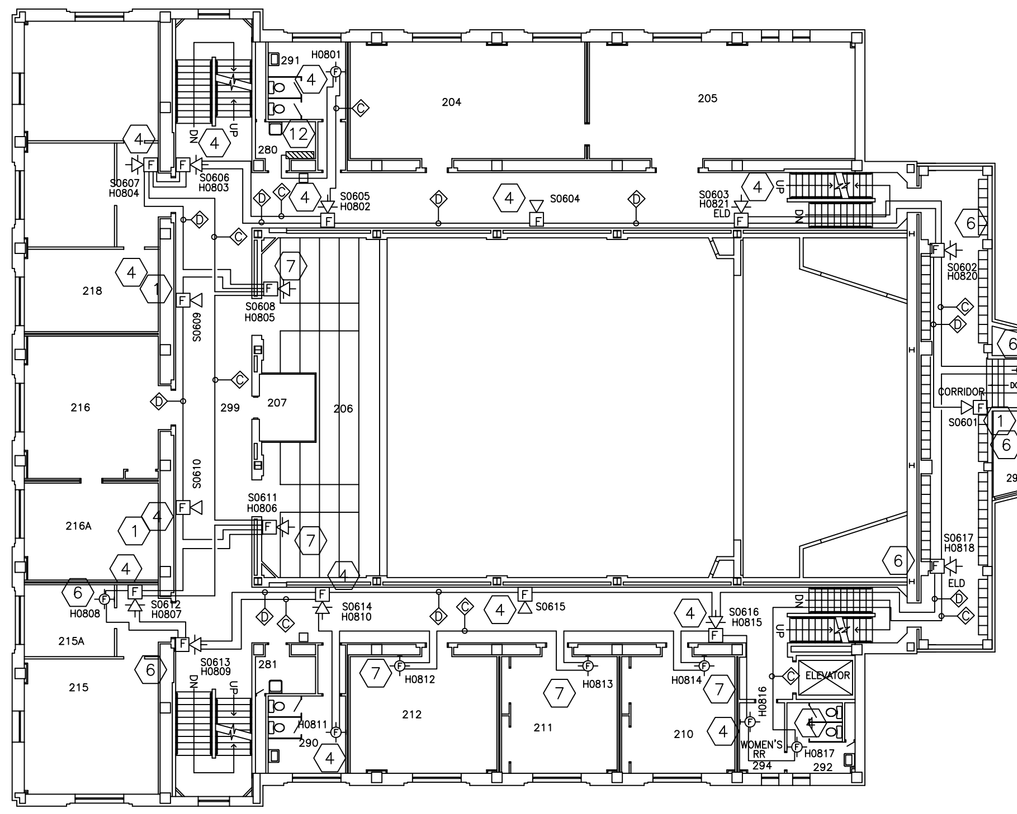
NO.	DESCRIPTION	BY	DATE
1	AS-BUILTS	MH	9/99

INDIANA UNIVERSITY
MERRILL HALL/MUSICAL ARTS
BLOOMINGTON, INDIANA
FIRE ALARM
BASEMENT & GROUND FLOOR

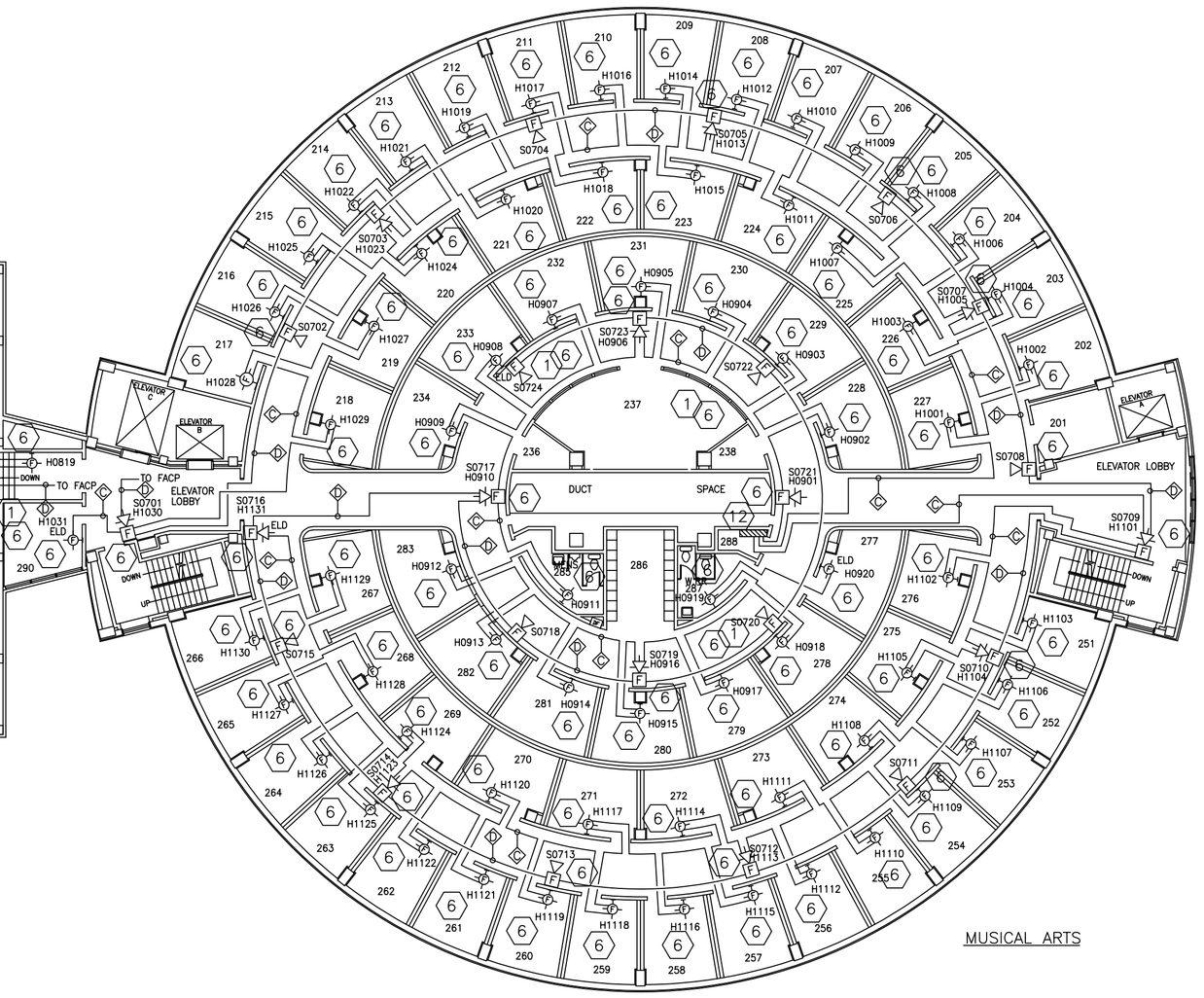
DRAWN BY: M.H.
DESIGNED BY:
CHECKED BY:
APPROVED BY:
DATE DRAWN: 06/22/98
JOB NO.: 3886
SCALE: 1/16"=1'-0"
SHEET NUMBER 5 OF 11
DRAWING NO: 3886-5

MERRILL HALL

ROOM#	DESCRIPTION
204	MUSIC CLASSRM
205	MUSIC CLASSRM
207	RECORDING
210	IND. STUDY
201	STACKS
211	IND. STUDY
212	IND. STUDY
215	ENTRANCE
215A	IND. STUDY
215B	IND. STUDY
216	STU
216	CIRC DESK
216A	IND.
281	AUDIO STORAGE



MERRILL HALL



MUSICAL ARTS

MUSICAL ARTS

ROOM#	DESCRIPTION
201	STORAGE
202	OPEN LAB
203	OPEN LAB
204	OPEN LAB
205	OPEN LAB
206	OPEN LAB
207	OPEN LAB
208	OPEN LAB
209	OPEN LAB
210	OPEN LAB
211	OPEN LAB
212	OPEN LAB
213	OPEN LAB
214	OPEN LAB
215	OPEN LAB
216	OPEN LAB
217	OPEN LAB
218	IND. STUDY
219	IND. STUDY
220	IND. STUDY
221	IND. STUDY
222	IND. STUDY
223	IND. STUDY
224	IND. STUDY
225	IND. STUDY
226	IND. STUDY
227	IND. STUDY
228	IND. STUDY
229	IND. STUDY
230	IND. STUDY
231	IND. STUDY
232	IND. STUDY
233	IND. STUDY
234	IND. STUDY
236	STORAGE
237	STUDENT LOUNGE
238	STORAGE
251	IND. STUDY
252	IND. STUDY
253	IND. STUDY
254	IND. STUDY
255	IND. STUDY
256	IND. STUDY
257	IND. STUDY
258	IND. STUDY
259	IND. STUDY
260	IND. STUDY
261	IND. STUDY
262	IND. STUDY
263	IND. STUDY
264	IND. STUDY
265	IND. STUDY
266	IND. STUDY
267	IND. STUDY
268	IND. STUDY
269	IND. STUDY
270	IND. STUDY
271	IND. STUDY
272	IND. STUDY
273	IND. STUDY
274	IND. STUDY
275	IND. STUDY
276	IND. STUDY
277	IND. STUDY
278	IND. STUDY
279	IND. STUDY
280	IND. STUDY
281	IND. STUDY
282	OPEN LAB
283	IND. STUDY
286	STUDENT LOCKERS
290	IND. STUDY

PLAN NOTES:

1. THIS DEVICE SHALL ONLY BE INSTALLED UNDER ALTERNATE #1–'VOICE EVAC.'.

2. NEW DEVICE IS INSTALLED IN SAME LOCATION AS EXISTING DEVICE REMOVED UNDER DEMOLITION PLAN.

3. UNDER ALTERNATE #1–'VOICE EVAC.' THIS DEVICE SHALL BE A SPEAKER/STROBE.

4. DEVICE BOX SHALL BE SURFACE MOUNTED. CONDUIT SHALL BE ROUTED EXPOSED.

5. DEVICE BOX SHALL BE FLUSH MOUNTED IN SUSPENDED CEILING. CONDUIT SHALL BE ROUTED ABOVE CEILING.

6. DEVICE BOX SHALL BE SURFACE MOUNTED. ROUTE CIRCUIT IN SURFACE MOUNTED RACEWAY UP TO ABOVE CEILING THEN IN CONDUIT ABOVE CEILING.

7. DEVICE BOX SHALL BE SURFACE MOUNTED. ROUTE CIRCUIT IN CONDUIT THROUGH WALL TO ADJACENT SPACE THEN IN EXPOSED CONDUIT UP. NO CONDUIT OR RACEWAY SHALL BE VISIBLE ON THIS SIDE OF WALL.

8. LINE OF BEAM BETWEEN BEAM RECEIVER AND TRANSMITTER.

9. DEVICE BOX SHALL BE SURFACE MOUNTED. ROUTE CIRCUIT IN SURFACE MOUNTED RACEWAY.

10. DEVICE BOX SHALL BE SURFACE MOUNTED. ROUTE CIRCUIT FROM DEVICE IN CONDUIT THROUGH WALL TO ADJACENT SPACE, THEN IN SURFACE MOUNTED RACEWAY UP. NO CONDUIT OR RACEWAY SHALL BE VISIBLE ON THIS SIDE OF WALL.

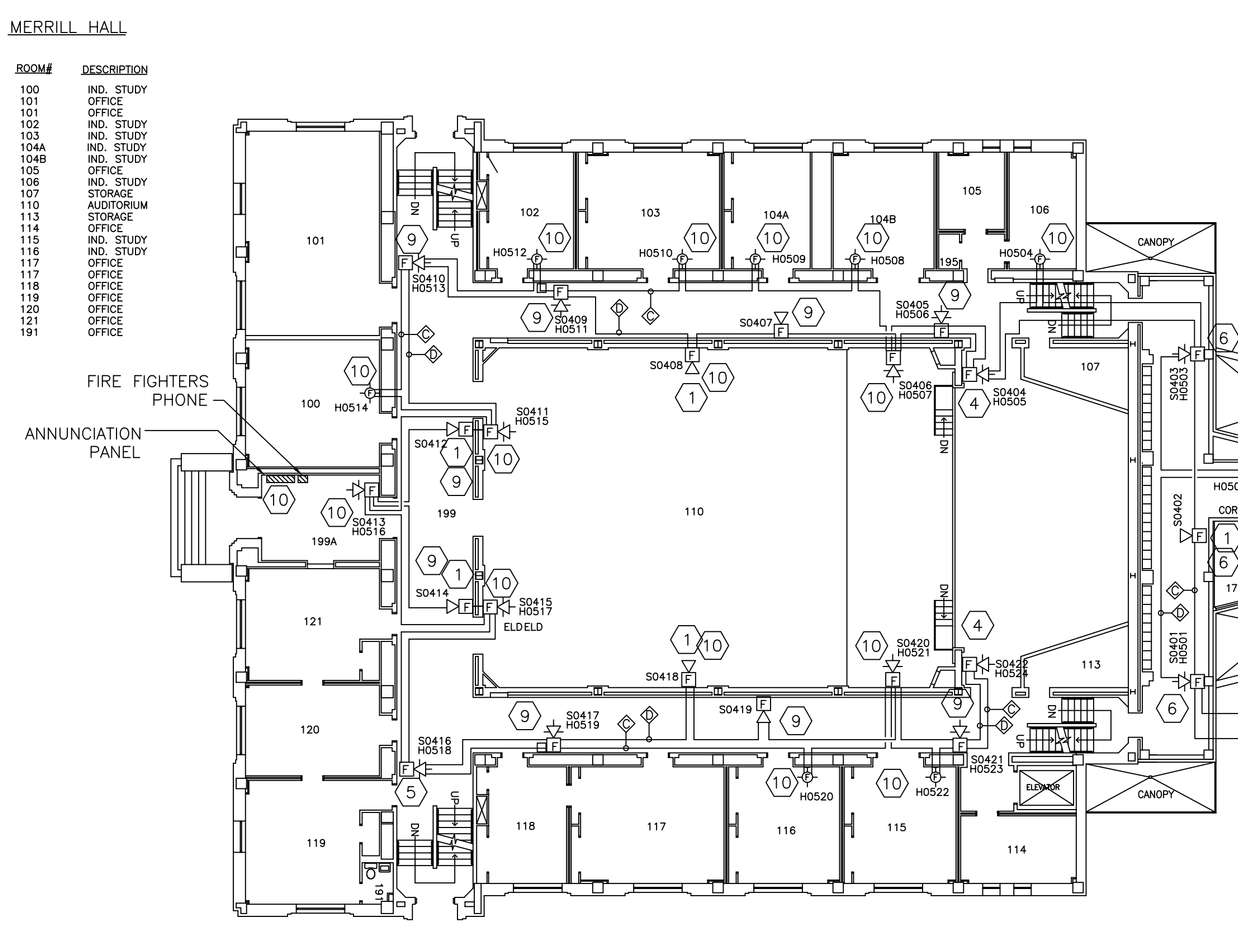
11. DEVICE SHALL BE WALL MOUNTED.

12. LOCATION FOR A.D.A. STROBE AUXILIARY POWER SUPPLIES.

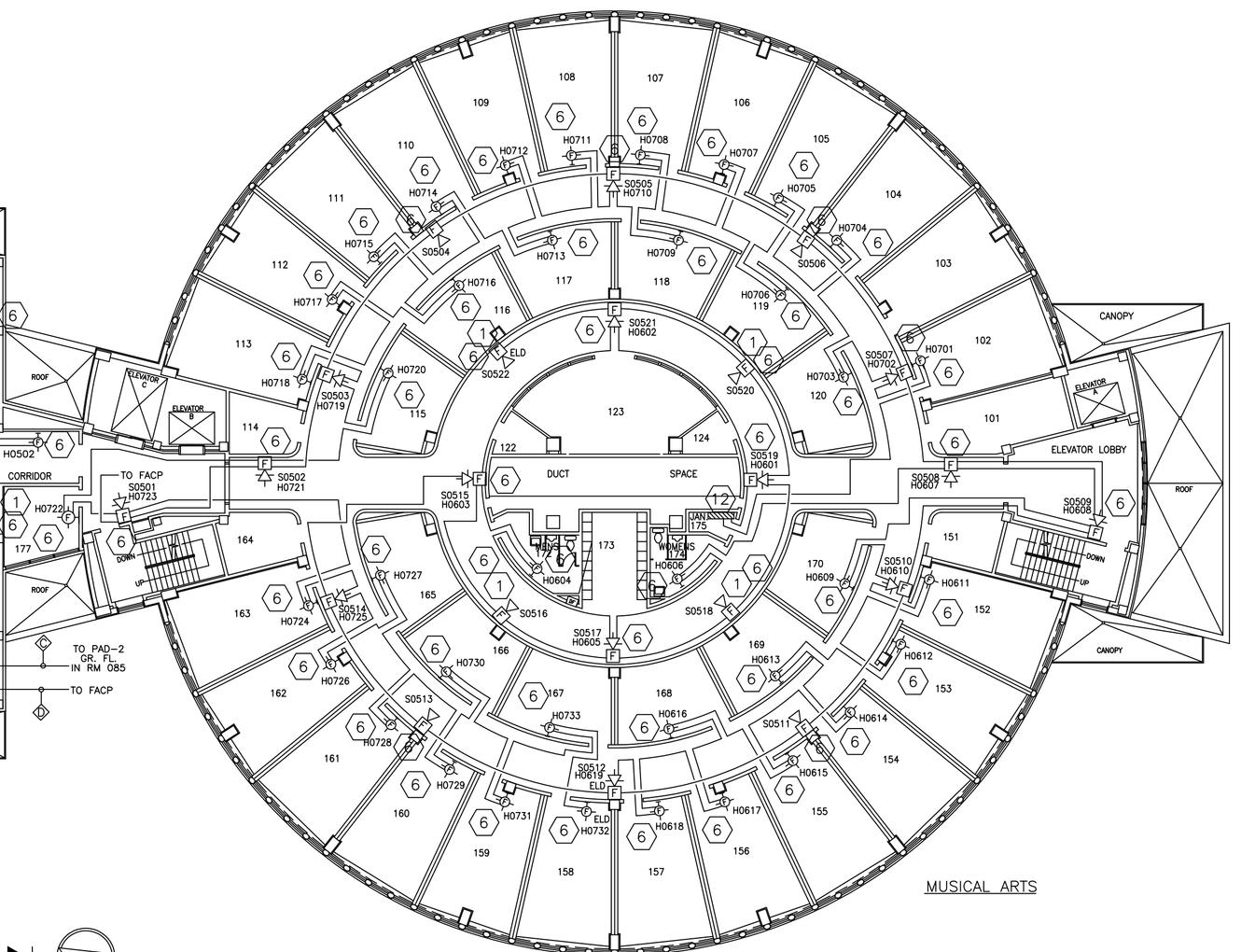
SECOND FLOOR PLAN – AUDIBLE LOOPS

SCALE: 1/16" = 1'–0"

MERRILL HALL



MUSICAL ARTS



MUSICAL ARTS

ROOM#	DESCRIPTION
100	IND. STUDY
101	OFFICE
101	OFFICE
102	IND. STUDY
103	IND. STUDY
104A	IND. STUDY
104B	IND. STUDY
105	OFFICE
106	IND. STUDY
107	STORAGE
110	AUDITORIUM
113	STORAGE
114	OFFICE
115	IND. STUDY
116	IND. STUDY
117	OFFICE
117	OFFICE
118	OFFICE
119	OFFICE
120	OFFICE
121	OFFICE
191	OFFICE

MUSICAL ARTS

ROOM#	DESCRIPTION
101	CLOSET
102	IND. STUDY
103	EMERIT OFFICE
104	IND. STUDY
105	IND. STUDY
106	IND. STUDY
107	IND. STUDY
108	IND. STUDY
109	IND. STUDY
110	IND. STUDY
111	IND. STUDY
112	IND. STUDY
113	IND. STUDY
114	ARCHIVES
115	IND. STUDY
116	IND. STUDY
117	IND. STUDY
118	IND. STUDY
119	IND. STUDY
120	IND. STUDY
123	STUDENT LOUNGE
151	STORAGE
152	IND. STUDY
153	IND. STUDY
154	IND. STUDY
155	IND. STUDY
156	IND. STUDY
157	IND. STUDY
158	IND. STUDY
159	IND. STUDY
160	IND. STUDY
161	IND. STUDY
162	IND. STUDY
163	IND. STUDY
164	REED MAKING
165	IND. STUDY
166	IND. STUDY
167	IND. STUDY
168	IND. STUDY
169	IND. STUDY
170	IND. STUDY
173	STUDENT LOCKERS
177	IND. STUDY

SYMBOLS SCHEDULE

SYMBOL	DESCRIPTION
F	MANUAL PULL STATION
F	SPEAKER
F	SPEAKER/STROBE
	A.D.A. STROBE
S	SMOKE DETECTOR
S	DUCT MOUNTED SMOKE DETECTOR
H	HEAT DETECTOR – SET TEMPERATURE WITH RATE OF RISE. SET TEMPERATURE SHALL BE 200° UNLESS OTHERWISE NOTED.
C	ADDRESSABLE CONTROL MODULE (TRI–B6R)
M	ADDRESSABLE MONITOR MODULE (TRI–B6)
R	ADDRESSABLE RELAY MODULE (TRI–B6R)
	PANEL OR POWER SUPPLY AS DESIGNATED ON PLANS

WIRING SCHEDULE

- (A) FACP TO ANNUNCIATOR: ONE PAIR 16 AWG TWISTED, SHIELDED & ONE PAIR 14 AWG TWISTED.
- (B) ALD CIRCUITS: ONE PAIR 16 AWG TWISTED, SHIELDED.
- (C) STROBE CIRCUIT: ONE PAIR 12 AWG TWISTED, SHIELDED.
- (D) SPEAKER CIRCUIT: ONE PAIR 16 AWG TWISTED.

FIRST FLOOR PLAN – AUDIBLE LOOPS

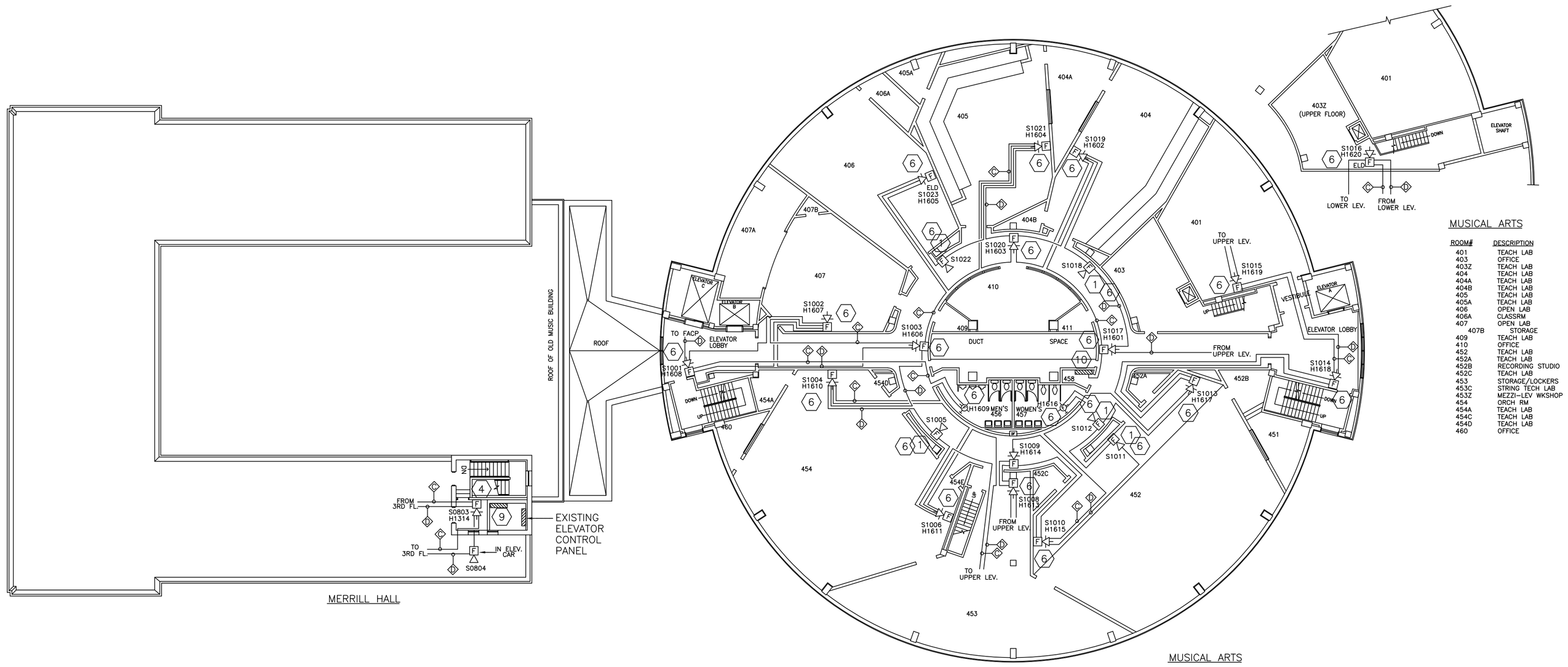
SCALE: 1/16" = 1'–0"

Koorsen Protection Services
Fire, Safety & Security Specialist Since 1946
2719 N. ARLINGTON AVE. INDIANAPOLIS IN 46218 (317)542–1800

NO.	DESCRIPTION	BY	DATE
1	AS–BUILTS	MH	9/99
	REVISIONS		

INDIANA UNIVERSITY
MERRILL HALL/MUSICAL ARTS
BLOOMINGTON, INDIANA
FIRE ALARM
FIRST & SECOND FLOOR

DRAWN BY: M.H.
DESIGNED BY:
CHECKED BY:
APPROVED BY:
DATE DRAWN: 06/22/98
JOB NO.: 3886
SCALE: 1/16"–1'–0"
SHEET NUMBER
6 OF 11
DRAWING NO: 3886–6



MUSICAL ARTS

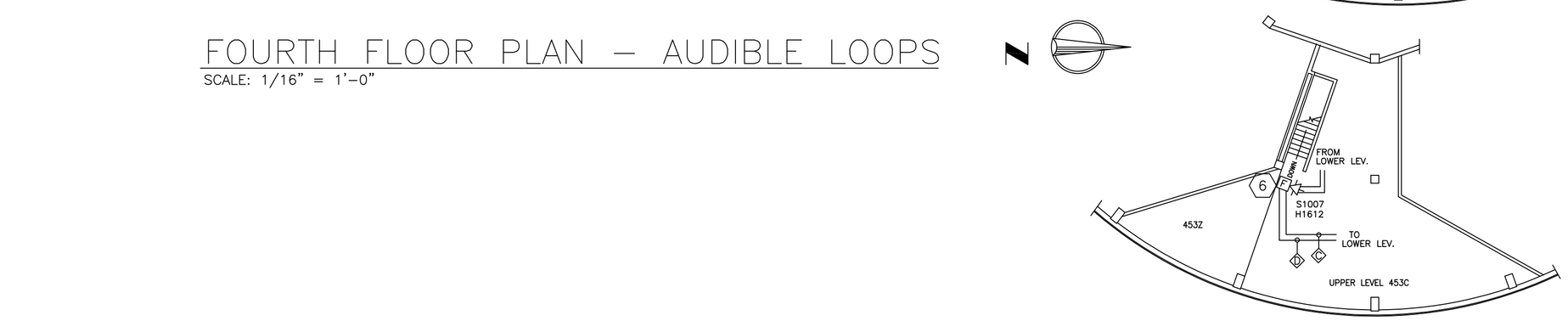
ROOM#	DESCRIPTION
401	TEACH LAB
403	OFFICE
403Z	TEACH LAB
404	TEACH LAB
404A	TEACH LAB
404B	TEACH LAB
405	TEACH LAB
405A	TEACH LAB
406	OPEN LAB
406A	CLASSRM
407	OPEN LAB
407B	STORAGE
409	TEACH LAB
410	OFFICE
452	TEACH LAB
452A	TEACH LAB
452B	RECORDING STUDIO
452C	TEACH LAB
453	STORAGE/LOCKERS
453C	STRING TECH LAB
453Z	MEZZI-LEV WKSHOP
454	ORCH RM
454A	TEACH LAB
454C	TEACH LAB
454D	TEACH LAB
460	OFFICE

FOURTH FLOOR PLAN – AUDIBLE LOOPS

SCALE: 1/16" = 1'-0"

PLAN NOTES:

1. THIS DEVICE SHALL ONLY BE INSTALLED UNDER ALTERNATE #1–'VOICE EVAC.'.
2. NEW DEVICE IS INSTALLED IN SAME LOCATION AS EXISTING DEVICE REMOVED UNDER DEMOLITION PLAN.
3. UNDER ALTERNATE #1–'VOICE EVAC.' THIS DEVICE SHALL BE A SPEAKER/STROBE.
4. DEVICE BOX SHALL BE SURFACE MOUNTED. CONDUIT SHALL BE ROUTED EXPOSED.
5. DEVICE BOX SHALL BE FLUSH MOUNTED IN SUSPENDED CEILING. CONDUIT SHALL BE ROUTED ABOVE CEILING.
6. DEVICE BOX SHALL BE SURFACE MOUNTED. ROUTE CIRCUIT IN SURFACE MOUNTED RACEWAY UP TO ABOVE CEILING THEN IN CONDUIT ABOVE CEILING.
7. DEVICE SHALL BE LOCATED IN TOP OF SHAFT.
8. UNDER ALTERNATE #1 – VOICE EVAC., THIS DEVICE SHALL NOT BE INSTALLED.
9. NEW ENCLOSURE AND FIRE ALARM ADDRESSABLE RELAYS FOR ELEVATOR RECALL. WIRE AND CONNECTIONS BETWEEN RELAYS AND ELEVATOR CONTROL PANEL SHALL BE BY OTHERS.
10. LOCATION FOR A.D.A. STROBE AUXILIARY POWER SUPPLIES.

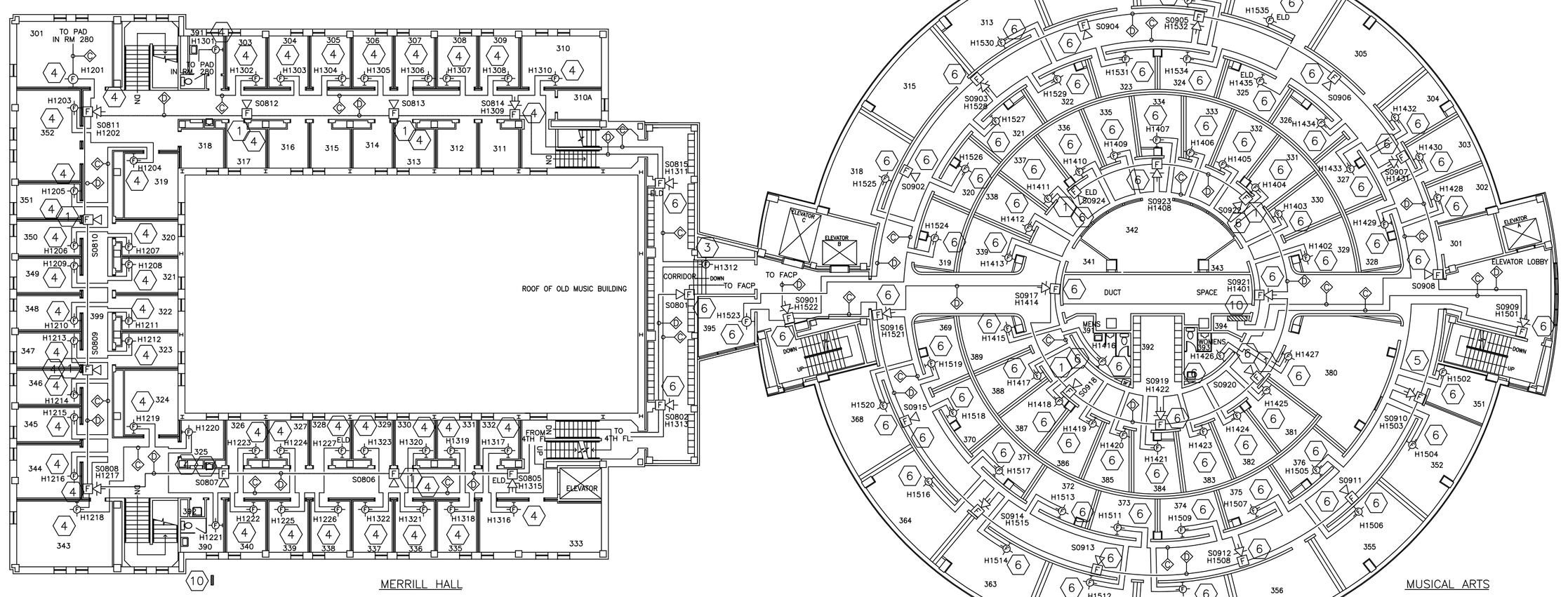


THIRD FLOOR PLAN – AUDIBLE LOOPS

SCALE: 1/16" = 1'-0"

MERRILL HALL

ROOM#	DESCRIPTION
301	IND. STUDY
303	IND. STUDY
304	IND. STUDY
305	IND. STUDY
306	IND. STUDY
307	IND. STUDY
308	IND. STUDY
309	IND. STUDY
310	IND. STUDY
310A	OFFICE
311	OFFICE
312	OFFICE
313	OFFICE
314	OFFICE
315	OFFICE
316	OFFICE
317	OFFICE
318	EMI LIBRARY
319	IND. STUDY
320	IND. STUDY
321	IND. STUDY
322	IND. STUDY
323	IND. STUDY
324	IND. STUDY
325	IND. STUDY
326	IND. STUDY
327	IND. STUDY
328	IND. STUDY
329	IND. STUDY
330	IND. STUDY
331	IND. STUDY
332	IND. STUDY
333	IND. STUDY
335	OPEN LAB
336	IND. STUDY
337	IND. STUDY
338	IND. STUDY
339	IND. STUDY
340	IND. STUDY
343	IND. STUDY
344	IND. STUDY
345	IND. STUDY
346	IND. STUDY
347	IND. STUDY
348	IND. STUDY
349	IND. STUDY
350	IND. STUDY
351	IND. STUDY
352	IND. STUDY



MUSICAL ARTS

ROOM#	DESCRIPTION
301	TEACH LAB
302	OPEN LAB
303	OPEN LAB
304	OPEN LAB
305	TEACH LAB
307	IND. STUDY
309	IND. STUDY
311	TEACH LAB
313	IND. STUDY
315	OFFICE
318	IND. STUDY
319	IND. STUDY
320	IND. STUDY
321	IND. STUDY
322	IND. STUDY
323	IND. STUDY
324	IND. STUDY
325	IND. STUDY
326	IND. STUDY
327	OPEN LAB
328	OPEN LAB
329	OPEN LAB
330	OPEN LAB
331	IND. STUDY
332	IND. STUDY
333	IND. STUDY
334	IND. STUDY
335	IND. STUDY
336	IND. STUDY
337	IND. STUDY
338	IND. STUDY
339	IND. STUDY
341	STORAGE
342	STUDENT LOUNGE
351	OPEN LAB
352	IND. STUDY
355	IND. STUDY
356	TEACH LAB
359	OPEN LAB
360	OPEN LAB
363	OPEN LAB
364	OPEN LAB
368	OPEN LAB
369	OPEN LAB
370	OPEN LAB
371	IND. STUDY
372	IND. STUDY
373	IND. STUDY
374	OPEN LAB
375	OPEN LAB
376	OPEN LAB
380	IND. STUDY
381	OPEN LAB
382	IND. STUDY
383	IND. STUDY
384	IND. STUDY
385	IND. STUDY
386	IND. STUDY
387	IND. STUDY
388	IND. STUDY
389	IND. STUDY
392	STUD LOCKERS
395	IND. STUDY

SYMBOLS SCHEDULE

SYMBOL	DESCRIPTION
F	MANUAL PULL STATION
F	SPEAKER
F	SPEAKER/STROBE
	A.D.A. STROBE
	SMOKE DETECTOR
S	DUCT MOUNTED SMOKE DETECTOR
H	HEAT DETECTOR – SET TEMPERATURE WITH RATE OF RISE. SET TEMPERATURE SHALL BE 200° UNLESS OTHERWISE NOTED.
C	ADDRESSABLE CONTROL MODULE (TRI–B6R)
M	ADDRESSABLE MONITOR MODULE (TRI–B6)
R	ADDRESSABLE RELAY MODULE (TRI–B6R)
	PANEL OR POWER SUPPLY AS DESIGNATED ON PLANS

WIRING SCHEDULE

- (A) FACP TO ANNUNCIATOR: ONE PAIR 16 AWG TWISTED, SHIELDED & ONE PAIR 14 AWG TWISTED.
- (B) ALD CIRCUITS: ONE PAIR 16 AWG TWISTED, SHIELDED.
- (C) STROBE CIRCUIT: ONE PAIR 12 AWG TWISTED, SHIELDED.
- (D) SPEAKER CIRCUIT: ONE PAIR 16 AWG TWISTED.

Koorsen Protection Services
Fire, Safety & Security Specialist Since 1946
2719 N. ARLINGTON AVE. INDIANAPOLIS IN 46218 (317)542-1800

NO.	DESCRIPTION	BY	DATE
1	AS-BUILTS	MH	9/99

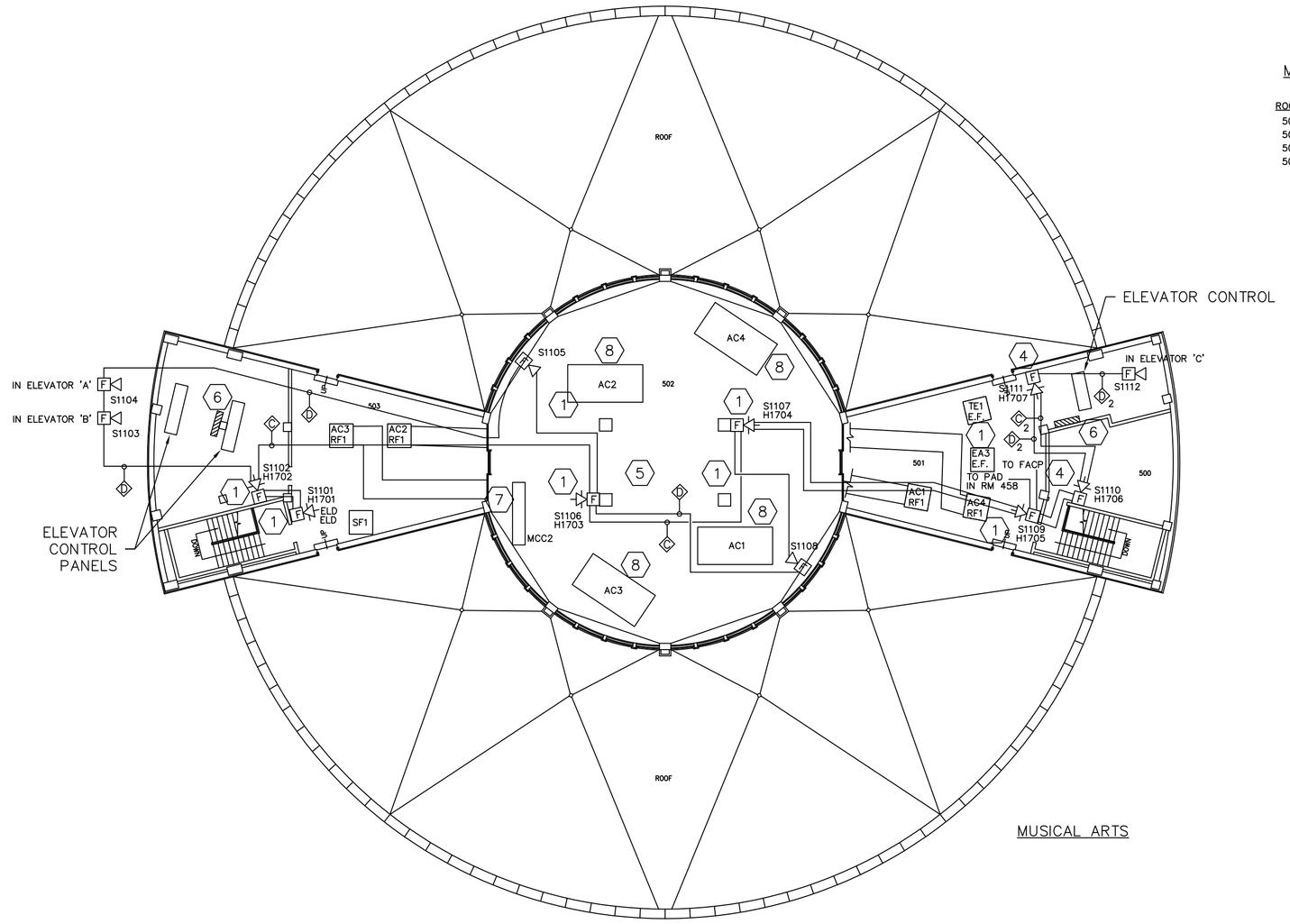
REVISIONS

INDIANA UNIVERSITY
MERRILL HALL/MUSICAL ARTS
BLOOMINGTON, INDIANA
FIRE ALARM
THIRD & FOURTH FLOOR

DRAWN BY: M.H.
DESIGNED BY:
CHECKED BY:
APPROVED BY:
DATE DRAWN: 06/22/98
JOB NO.: 3886
SCALE: 1/16"=1'-0"

SHEET NUMBER
7
OF
11

DRAWING NO: 3886-7



MUSICAL ARTS

ROOM #	DESCRIPTION
500	TEACH LAB
501	PENTHOUSE
502	MECH. EQ. ROOM
503	PENTHOUSE

FIFTH FLOOR PLAN – AUDIBLE LOOPS

SCALE: 1/16" = 1'–0"

PLAN NOTES:

1. DEVICE BOX SHALL BE SURFACE MOUNTED. CONDUIT SHALL BE ROUTED EXPOSED.

2. NEW DEVICE IS INSTALLED IN SAME LOCATION AS EXISTING DEVICE REMOVED UNDER DEMOLITION PLAN.

3. DEVICE BOX SHALL BE FLUSH MOUNTED IN SUSPENDED CEILING. CONDUIT SHALL BE ROUTED ABOVE CEILING.

4. DEVICE BOX SHALL BE SURFACE MOUNTED. ROUTE CIRCUIT IN SURFACE MOUNTED RACEWAY UP TO ABOVE CEILING THEN IN CONDUIT ABOVE CEILING.

5. ALL DEVICES IN MECHANICAL ROOMS SHALL BE SURFACE MOUNTED. CIRCUITS SHALL BE ROUTED IN EXPOSED CONDUIT.

6. NEW ENCLOSURE WITH ADDRESSABLE RELAYS FOR ELEVATOR CONTROL. CONTRACTOR SHALL ROUTE CONDUIT FROM NEW ENCLOSURES TO ELEVATOR CONTROL PANELS. OWNER SHALL PULL WIRING AND MAKE CONNECTIONS BETWEEN ADDRESSABLE RELAYS AND ELEVATOR CONTROL.

7. ALL FAN UNITS SHOWN ON THIS SHEET ARE SERVED BY STARTERS IN 'MCC2'. CONTRACTOR SHALL MOUNT NEW ENCLOSURE WITH ADDRESSABLE RELAYS FOR FAN CONTROL AS NEAR AS POSSIBLE TO 'MCC2'. ENCLOSURE SHALL HOUSE SEPARATE ADDRESSABLE RELAYS FOR EACH AIR HANDLER. CONTRACTOR SHALL ROUTE 1–1/4" CONDUIT FROM NEW ENCLOSURE TO 'MCC2'. OWNER SHALL PULL WIRING AND MAKE CONNECTORS BETWEEN RELAYS AND AIR HANDLER STARTERS.

8. AC–1 DUCTWORK SHALL REQUIRE EIGHT DUCT SMOKE DETECTORS IN THIS ROOM. AC–2 DUCTWORK SHALL REQUIRE EIGHT DUCT SMOKE DETECTORS IN THIS ROOM. AC–3 DUCTWORK SHALL REQUIRE TWELVE DUCT SMOKE DETECTORS IN THIS ROOM. AC–4 DUCTWORK SHALL REQUIRE TWELVE DUCT SMOKE DETECTORS IN THIS ROOM. CONTRACTOR SHALL COORDINATE WITH OWNER IN FIELD TO VERIFY LOCATIONS FOR NEW DUCT SMOKE DETECTORS IN THIS ROOM PRIOR TO INSTALLATION.

9. LOCATION FOR A.D.A. STROBE AUXILIARY POWER SUPPLIES.

SYMBOLS SCHEDULE

SYMBOL	DESCRIPTION
F	MANUAL PULL STATION
F	SPEAKER
F	SPEAKER/STROBE
	A.D.A. STROBE
S	SMOKE DETECTOR
S	DUCT MOUNTED SMOKE DETECTOR
H	HEAT DETECTOR – SET TEMPERATURE WITH RATE OF RISE. SET TEMPERATURE SHALL BE 200° UNLESS OTHERWISE NOTED.
C	ADDRESSABLE CONTROL MODULE (TRI–B6R)
M	ADDRESSABLE MONITOR MODULE (TRI–B6)
R	ADDRESSABLE RELAY MODULE (TRI–B6R)
	PANEL OR POWER SUPPLY AS DESIGNATED ON PLANS

WIRING SCHEDULE

A FACP TO ANNUNCIATOR: ONE PAIR 16 AWG TWISTED, SHIELDED & ONE PAIR 14 AWG TWISTED.

B ALD CIRCUITS: ONE PAIR 16 AWG TWISTED, SHIELDED.

C STROBE CIRCUIT: ONE PAIR 12 AWG TWISTED, SHIELDED.

D SPEAKER CIRCUIT: ONE PAIR 16 AWG TWISTED.

Koorsen Protection Services
Fire, Safety & Security Specialist Since 1946
2719 N. ARLINGTON AVE. INDIANAPOLIS IN 46218 (317)542–1800

NO.	DESCRIPTION	BY	DATE
	REVISIONS		
1	AS–BUILTS	MH	9/99

INDIANA UNIVERSITY
MERRILL HALL/MUSICAL ARTS
BLOOMINGTON, INDIANA
FIRE ALARM
FIFTH FLOOR

DRAWN BY: M.H.
DESIGNED BY:
CHECKED BY:
APPROVED BY:
DATE DRAWN: 06/22/98
JOB NO.: 3886
SCALE: 1/16"=1'–0"

SHEET NUMBER
8
OF
11

DRAWING NO: 3886–8

MXL SYSTEM INSTALLATION NOTES

1. NOTE POLARITY OF ALL DEVICES BEING INSTALLED AND MARK ALL WIRING ENTERING OR EXITING EACH DEVICE WITH THE PROPER POLARITY DESIGNATION USING EZ-MARKERS ON EACH INDIVIDUAL WIRE.

2. NO WIRING OTHER THAN THAT REQUIRED FOR THE FIRE ALARM DEVICES SHALL BE ALLOWED IN THE CONDUIT LEADING TO OR EXITING FROM ANY DEVICE.

3. ALL DETECTION DEVICES MOUNTED ON THE CEILING SHALL BE CENTERED IN THEIR RESPECTIVE CEILING TILE WHERE POSSIBLE.

4. TEE-TAPPING OF DETECTION CIRCUITS IS ALLOWABLE WITH THE USE OF THE MXL FIRE ALARM SYSTEM ONLY.

5. IONIZATION DETECTORS SHALL NOT BE LOCATED IN THE DIRECT AIR STEAM OF ANY HVAC AIR SUPPLY OUTLETS.

6. ALL DETECTION DEVICES SHALL BE WIRED WITH #16 AWG (UNLESS OTHERWISE NOTED) TWISTED PAIR ENCLOSED IN CONDUIT, OR USING TEFLON COATED FIRE ALARM CABLE ROUTED IN SPACES WHERE APPROVED BY THE LOCAL FIRE AUTHORITY HAVING JURISDICTION.

7. ALL DETECTORS SHALL BE MARKED ON THE INSIDE OF THE DETECTOR BASE WITH THEIR CORRISPONDING ADDRESS NUMBER AS SHOWN ON THE APPROVED FLOOR PLAN AND RISER DIAGRAM. EZ-MARKERS OR DYNO-LABLER TAPE SHOULD BE USED TO CLEARLY MARK THE DEVICE AS STATED.

8. ALL WIRES ENTERING THE CONTROL PANEL FROM THE FIELD SHALL BE TAGGED AS FOLLOWS:
   a) TWO WIRES FOR DETECTORS-WHAT FLOOR OR FLOORS THEY ARE ROUTED TO AND WHAT ADDRESSABLE DEVICES THEY ARE ATTACHED TO.
   b) WIRES FOR SYSTEM AUDIBLE CIRCUITS, REMOTE FUNCTIONS, ETC., TO BE TAGGED WHAT THEY ARE AND WHAT REMOTE FUNCTION THEY ARE ACCOMPLISHING.

9. ALL JUNCTION BOXES USED FOR PULLING WIRE OR SPLICING WIRES SHALL BE MARKED ON THE COVER WITH THIS STATEMENT: "MXL FIRE ALARM SYSTEM WIRING" (IN A PERMANENT, NON-REMOVABLE MANNER; GREASE PENCILS, MARKERS, PENS, ETC. NOT ACCEPTABLE).

10. KOORSEN PROTECTION SERVICES IS RESPONSIBLE FOR ONLY THOSE ITEMS LISTED ON THE MXL EQUIPMENT LIST. ALL OTHER INSTALL-ATION MATERIAL, CONDUIT, WIRE, JUNCTION BOXES, HANGERS AND MISC. HARDWARE SHALL BE SUPPLIED BE THE INSTALLATION CONTRACTOR.

11. ALL FINAL WIRING TERMINATIONS SHALL BE MADE AT THE TIME OF START UP AND CHECKOUT OF THE SYSTEM. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR TO HAVE PERSONNEL AVAILABLE AT THIS TIME TO ASSIST WITH THE FINAL WIRING TERMINATIONS AND TO MAKE ANY WIRING CORRECTIONS WHICH MAY BE REQUIRED AT THE TIME THE SYSTEM IS ENERG-IZED AND THE CHECKOUT PROCESS BEGINS.

12. THE FOLLOWING GUIDELINES FOR ALD MODULE WIRING SHALL BE FOLLOWED STRICTLY FOR PROPER SYSTEM OPERATION:
   a) IF THE ALD LOOP WIRING IS NOT IN CONDUIT:
      -ALD LOOP WIRING MUST BE IN SHIELDED CABLE WITH CONTINOUS DRAIN.
      -DRAIN CONNECTED TO ENCLOSURE ONLY.
      -DRAIN MUST BE CONTINOUS.
      -MINIMUM #18 AWG
      -100 ohms MAXIMUM RESISTANCE.
      -0.2uF MAXIMUM CAPACITANCE BETWEEN LINES.

   b) IF THE ALD LOOP WIRING IS WITHIN CONDUIT WITH NO OTHER WIRING:
      -ALD LOOP WIRING MUST BE IN SHIELDED CABLE WITH CONTINOUS DRAIN.
      -DRAIN CONNECTED TO ENCLOSURE ONLY.
      -DRAIN MUST BE CONTINOUS.
      -MINIMUM #18 AWG
      -100 ohms MAXIMUM RESISTANCE.
      -0.2uF MAXIMUM CAPACITANCE BETWEEN LINES.

   c) IF THE ALD LOOP IS WITHIN CONDUIT WITH ANOTHER ALD LOOP OR A CSM SIGNALING LOOP (NON-CODED SYSTEM):
      -EACH ALD LOOP MUST BE INDIVIDUALLY SHIELDED WITH CONTINOUS DRAIN.
      -DRAINS CONNECTED TO ENCLOSURE ONLY.
      -DRAIN MUST BE CONTINOUS.
      -MINIMUM #18 AWG
      -100 ohms MAXIMUM RESISTANCE.
      -0.2 uF MAXIMUM CAPACITANCE BETWEEN LINES.

   d) WIRING TECHNIQUES THAT ARE NOT TO BE FOLLOWED:
      -ALD WIRING IN A CONDUIT THAT ALSO HAS WIRING FROM A SOURCE OTHER THAN A NON-CODED CSM; SUCH SOURCES INCLUDE CODED SIGNALS FROM EITHER THE MXL OR ANOTHER FIRE OR SECURITY PANEL.

   e) WIRING TECHNIQUES THAT ARE TO BE APPROACHED WITH CAUTION:
      -ALD WIRING IN A CONDUIT THAT ALSO INCLUDES WIRING FROM A VOICE SYSTEM (PA OR EVAC); MAKE SURE THAT THE ALD LOOP WIRING AND THE VOICE SYSTEM WIRING ARE IN SEPERATE CONDUIT.

   f) WIRING WITHIN THE MXL ENCLOSURE:
      -KEEP ALD LOOP WIRING SEPERATED AS MUCH AS IS PRACTICAL FROM ALL OTHER WIRING.
      -ENSURE A SOLID CONNECTION OF THE DRAINS TO THE MXL CHASSIS.
      -ENSURE THAT THE MXL CHASSIS HAS A SOLID EARTH GROUND CONNECTION.

   g) TRI SWITCH WIRING:
      -KEEP TO THE SPECIFIED LENGTH OF 25 Ft. DUE TO THE FACT THAT THE WIRES GO DIRECTLY TO THE CUSTOM MPC WHICH COULD BE DESTROYED IF SUBJECTED TO ELECTRICAL NOISE; LINE RESISTANCE IS NOT A MAJOR PROBLEM IN THIS INSTANCE.

EQUIPMENT LIST

ITEM #	QTY.	DESCRIPTION	PART NUMBER	MANUFACT.
1	1	MAIN MOTHER BOARD	MMB-2	PYRO.
2	1	KEYBOARD/DISPLAY	MKB-2	"
3	1	MAIN POWER SUPPLY	MPS-12	"
4	1	ENCLOSURE	MLE-6	"
5	6	120 DEVICE LOOP CARD	ALD-2I	"
6	4	CARD CAGE	MOM-4	"
7	1	INTERFACE MODULE	PIM-1	"
8	4	100 WATT AMP	EL-410D	"
9	1	BATTERY PACK	BTX-1	"
10	1	MICROPHONE	MMM-1	"
11	1	FIRE FIGHTERS TELEPHONE	TMM-1	"
12	1	AUDIO CONTROL MODULE	ACM-1	"
13	1	OUTPUT CONTROL CARD	OCC-1	"
14	2	SPEAKER ZONE CARD	ZC1-8B	"
15	2	VOICE SWITCH MODULE	VSM-1	"
16	1	TELEPHONE ZONE CARD	ZCT-8B	"
17	2	CARD CAGE	OMM-1	"
18	1	AMP SUPERVISORY CARD	ASC-1	"
19	1	TERMINATION BLOCK MODULE	TBM-1	"
20	1	CONVENTIONAL ZONE MODULE	CZM-4	"
21	2	LCD ANNUNCIATOR	RCC-1	"
22	2	REMOTE FIRE FIGHTERS TELEPHONE	FT-301	"
23	2	BACKBOX	FB-301S	"
24	2	PHONE JACK	FJ-303	"
25	1	ENCLOSURE FOR AMPS	EA-34	"
26	1	PRINTER	ML390	OKIDATA
27	38	MANUAL PULL STATION	MSI-10B	PYRO.
28	38	PULL STATION SURFACE BACKBOX	SB-5R	PYRO.
29	273	STROBE	RSS241575WFR	WHEELOCK
30	273	SURFACE BACKBOX	SHBB	WHEELOCK
31	140	SPEAKER/STROBE	SH25-S17	PYRO.
32	74	SPEAKER	SH25	"
33	214	SURFACE BACKBOX	FDBB	"
34	262	PHOTO SMOKE DETECTOR	ILP-1	"
35	262	DETECTOR BASE	DB-3S	"
36	51	PHOTO DUCT DETECTOR	ILP-1	"
37	51	DUCT DETECTOR HOUSING	AD-3ILP	"
38	51	SAMPLE TUBE	STA-10	"
39	48	200° HEAT DETECTOR	DT-200R	"
40	11	MONITOR MOD. FOR HEAT DETS.	TRI-B6	"
41	4	DUAL MONITOR MOD. FOR HEAT DETS.	TRI-B6D	"
42	2	MONITOR MOD. FOR PRESS. SWITCH.	TRI-B6	"
43	9	CONTROL MOD FOR AHU SHUTDOWN	TRI-B6R	"
44	9	CONTROL MOD. FOR EMS SIGNAL	TRI-B6R	"
45	8	CONTROL MOD. FOR ELEV. RECALL	TRI-B6R	"
46	3	CONTROL MOD. FOR OFF-SITE MON. SIGNAL	TRI-B6R	"
47	7	REMOTE A/V POWER SUPPLY	PAD-2	"
48	14	7 A.H. BATTERY	PS-1270	"
49	7	CONTROL MODULE FOR PAD-2	TRI-B6R	"
50	2	BEAM DETECTOR	PBA-1191	"
51	2	BEAM DETECTOR BASE	PBB-1191	"
52	2	BEAM REFLECTOR & BASE	PBR-1191	"
53	1	WATER FLOW SWITCH	VSR-F-X	POTTER
54	1	TAMPER SWITCH	OSY-V-2	POTTER
55				
56	4	SPARE STROBE	RSS241575WFR	WHEELOCK
57	4	SPARE SPEAKER/STROBE	SH25-S17	PYRO.
58	4	SPARE SPEAKER	SH25	"
59	4	SPARE SMOKE DETECTOR	ILP-1	"
60	4	SPARE DETECTOR BASE	DB-3S	"
61	4	SPARE HEAT DETECTOR	DT-200R	"
62	4	SPARE MONITOR MODULE	TRI-B6	"
63	4	SPARE PULL STATION	MSI-10B	"

SCHEDULE OF CONDUIT APPLICATIONS

CONDUIT LOCATION OR APPLICATION	CONDUIT TYPE: RIGID	INTERMEDIATE	E.M.T.	FLEXIBLE	FLEXIBLE W/ W.P. JACKET	P.V.C. SCHED 40	P.V.C. SCHED 80	SURFACE RACEWAY
IN CONCRETE SLAB (NOT LARGER THAN 1" C)		(3)						
BELOW LOWEST FLOOR SLAB		(3)				(2)	(2)	
CONCEALED IN WALLS, ABOVE CEILINGS AND IN FURRED SPACES		(3)	(1)					
IN DAMP LOCATIONS AND EXPOSED TO WEATHER	(3)							
FEEDER AND POWER CIRCUITS RUN EXPOSED	(3)	(3)						
SIGNAL CIRCUITS RUN EXPOSED IN UNFINISHED AREAS UNLESS OTHERWISE NOTED			(1)					
SIGNAL CIRCUITS RUN EXPOSED IN LOADING DOCKS, MECHANICAL ROOMS OR TUNNELS		(3)						
SIGNAL CIRCUITS RUN EXPOSED IN FINISHED AREAS								○
FINAL CONNECTION TO EQUIP. SUBJECT TO VIBRATION				○				
FINAL CONNECTION TO EQUIP. IN DAMP LOCATIONS					○			

NOTES:
- ○ - TYPE OF CONDUIT TO BE USED
- (1) - E.M.T. SHALL NOT BE USED IN SIZES LARGER THAN 2 INCH.
- (2) - CONVERT TO RIGID OR INTER. THROUGH SLAB
- (3) - USE THREADED FITTINGS ONLY

Koorsen Protection Services
Fire, Safety & Security Specialist Since 1946
2719 N. ARLINGTON AVE. INDIANAPOLIS IN 46218 (317)542-1800

NO.	DESCRIPTION	BY	DATE
1	AS-BUILTS	MH	9/99
2	AS-BUILTS	MH	5/00

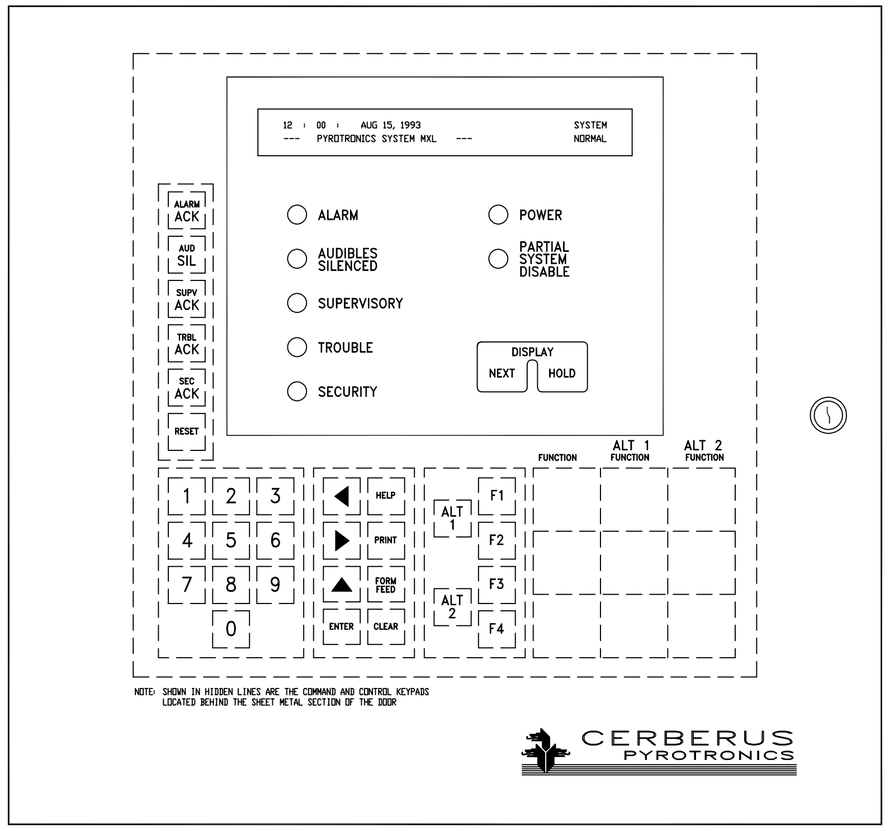
REVISIONS

INDIANA UNIVERSITY
MERRILL HALL/MUSICAL ARTS
BLOOMINGTON, INDIANA
FIRE ALARM
NOTES AND EQUIPMENT LIST

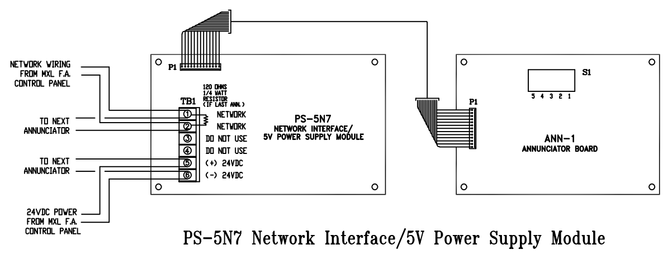
DRAWN BY: M.H.
DESIGNED BY:
CHECKED BY:
APPROVED BY:
DATE DRAWN: 06/22/98
JOB NO.: 3886
SCALE: NONE

SHEET NUMBER
9
OF
11

DRAWING NO: 3886-9



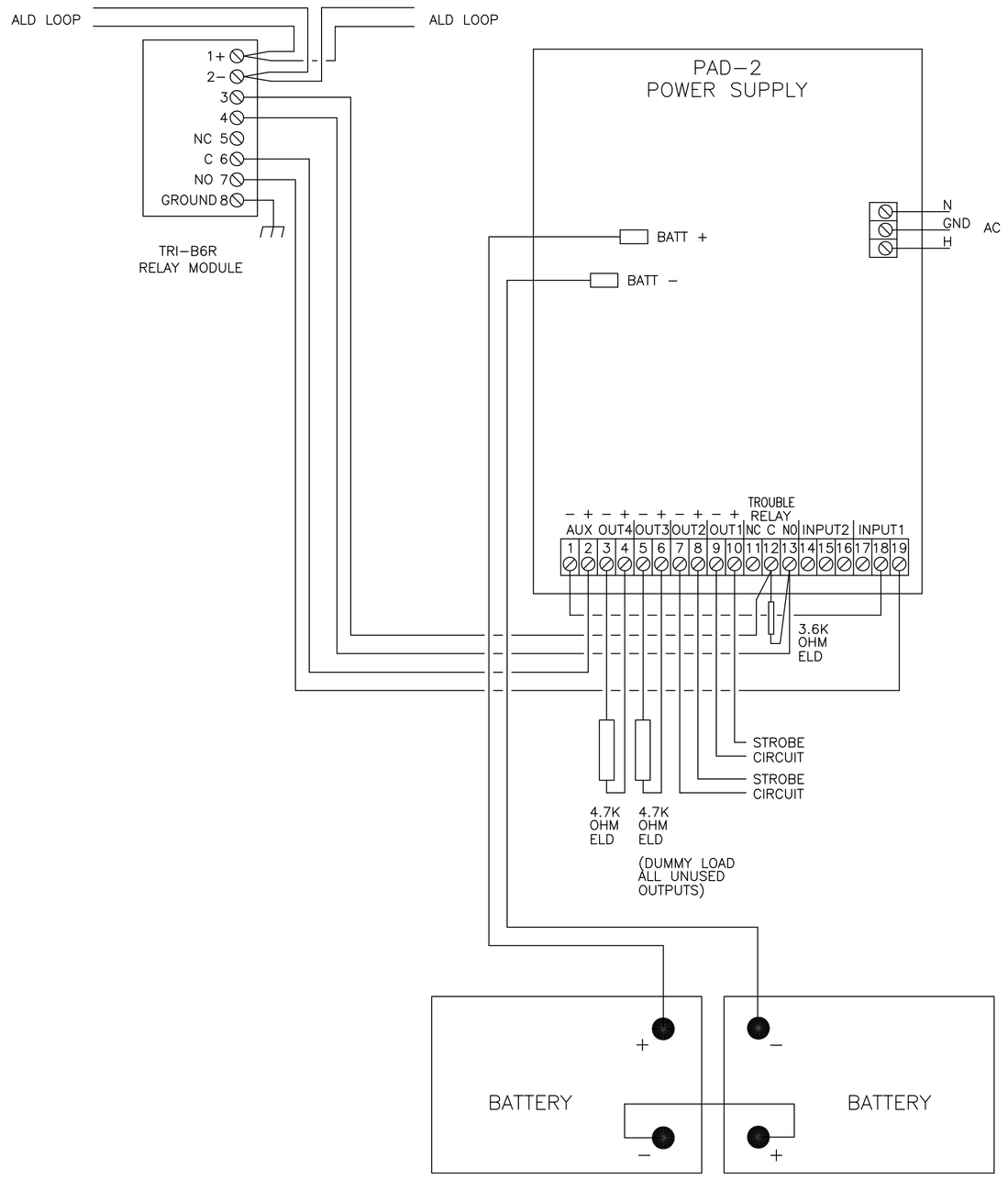
RCC-1 FRONT PANEL DETAIL



PS-5N7 Network Interface/5V Power Supply Module

TYPICAL INSTALLATION OF PS-5N7 & ANN-1

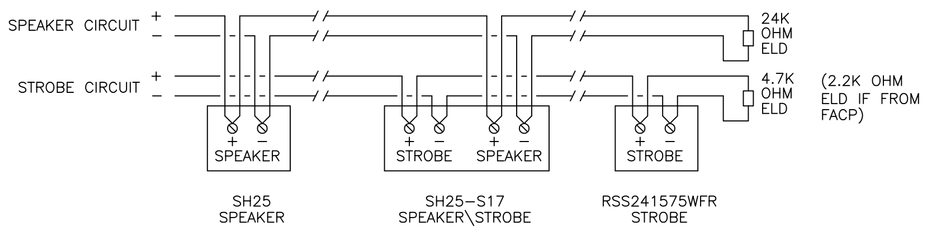
TYPICAL
RCC-1 REMOTE COMMAND CENTER/ANNUNCIATOR DETAILS



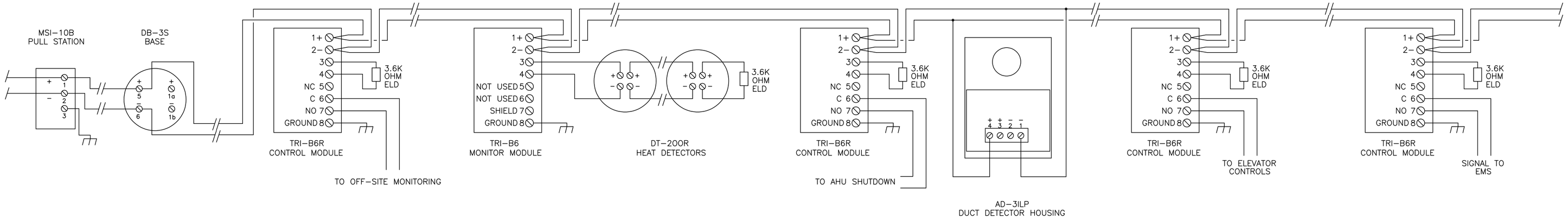
TYPICAL PAD-2 REMOTE POWER SUPPLY DETAIL

STROBE CIRCUIT SCHEDULE			
CIRCUIT LOCATION	CIRCUIT #	POWER SUPPLY LOCATION	POWER DRAW
MUSICAL, BASEMENT	H01	FACP IN ROOM B003	
MERRILL, GR. FL.	H02	PAD-2 IN ROOM 085	
MUSICAL, GR. FL.	H03	PAD-2 IN ROOM 090	
MUSICAL, GR. FL.	H04	PAD-2 IN ROOM 090	
MERRILL, 1ST FL.	H05	PAD-2 IN ROOM 085	
MUSICAL, 1ST FL.	H06	PAD-2 IN ROOM 175	
MUSICAL, 1ST FL.	H07	PAD-2 IN ROOM 175	
MERRILL, 2ND FL.	H08	PAD-2 IN ROOM 280	
MUSICAL, 2ND FL.	H09	PAD-2 IN ROOM 288	
MUSICAL, 2ND FL.	H10	PAD-2 IN ROOM 288	
MUSICAL, 2ND FL.	H11	PAD-2 IN ROOM 288	
MERRILL, 3RD FL.	H12	PAD-2 IN ROOM 280	
MERRILL, 3RD FL.	H13	PAD-2 IN ROOM 280	
MUSICAL, 3RD FL.	H14	PAD-2 IN ROOM 394	
MUSICAL, 3RD FL.	H15	PAD-2 IN ROOM 394	
MUSICAL, 4TH FL.	H16	PAD-2 IN ROOM 458	
MUSICAL, 5TH FL.	H17	PAD-2 IN ROOM 458	

TYPICAL WIRING OF AUDIBLE CIRCUIT DEVICES.



TYPICAL WIRING OF ALD CIRCUIT DEVICES.



Koorsen Protection Services
Fire, Safety & Security Specialist Since 1946
2719 N. ARLINGTON AVE. INDIANAPOLIS IN 46218 (317)542-1800

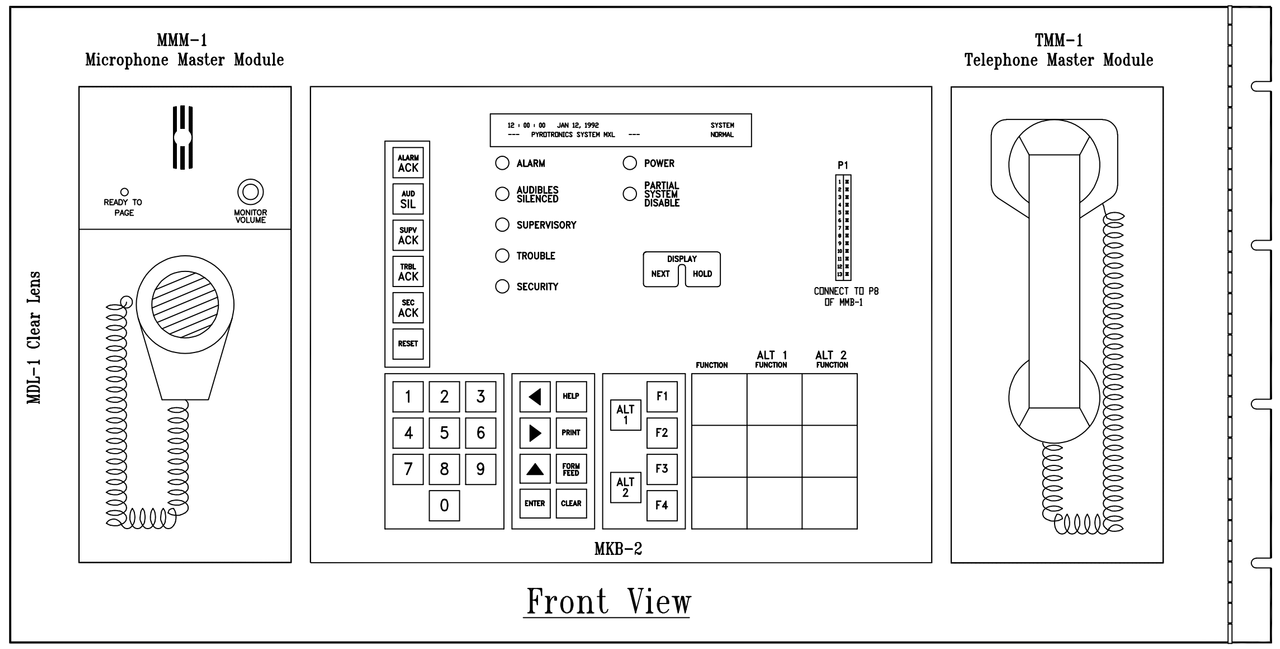
NO.	DESCRIPTION	BY	DATE
	REVISIONS		
1	AS-BUILTS	MH	9/99

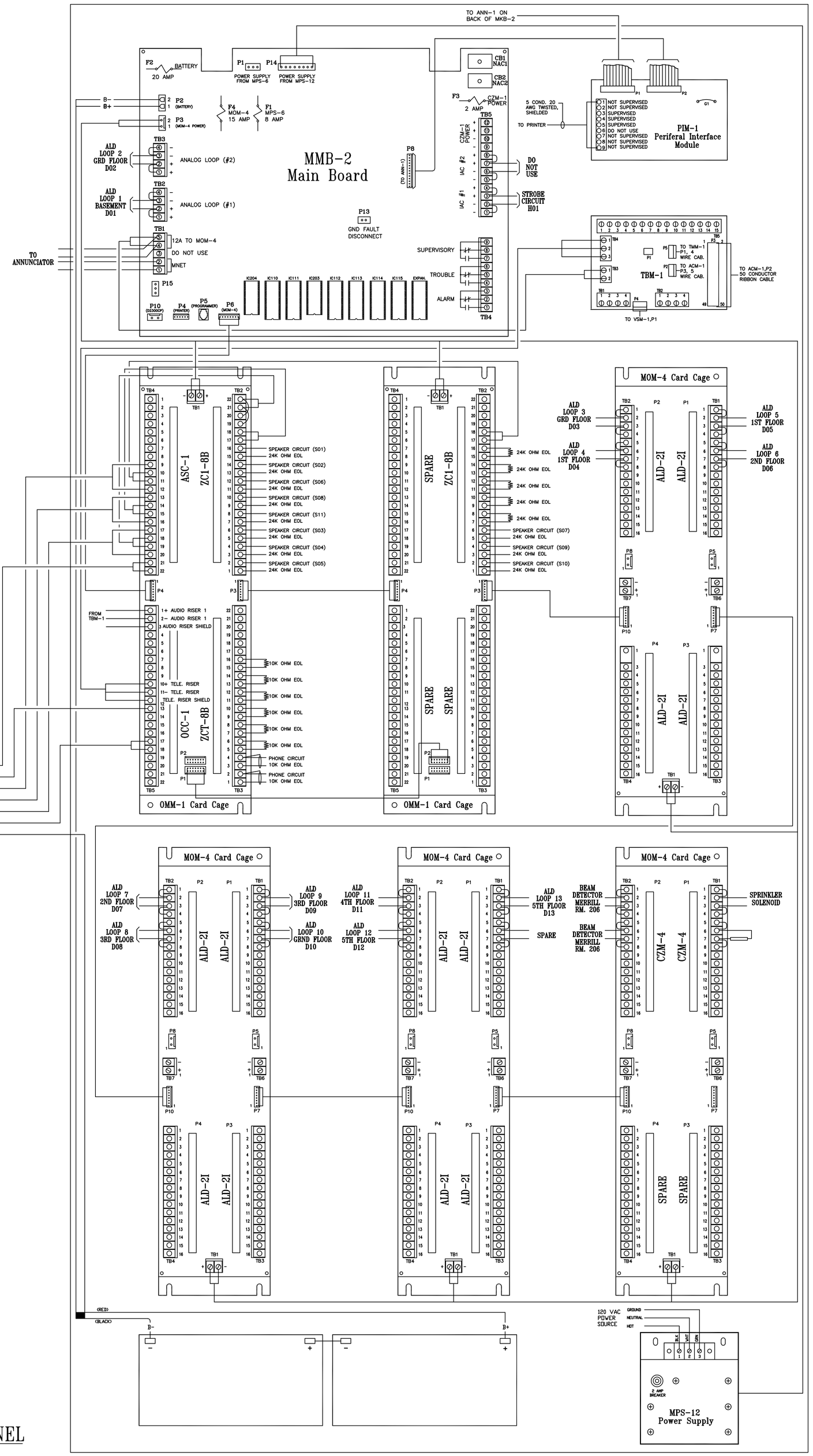
INDIANA UNIVERSITY
MERRILL HALL/MUSICAL ARTS
BLOOMINGTON, INDIANA
FIRE ALARM
WIRING DETAILS

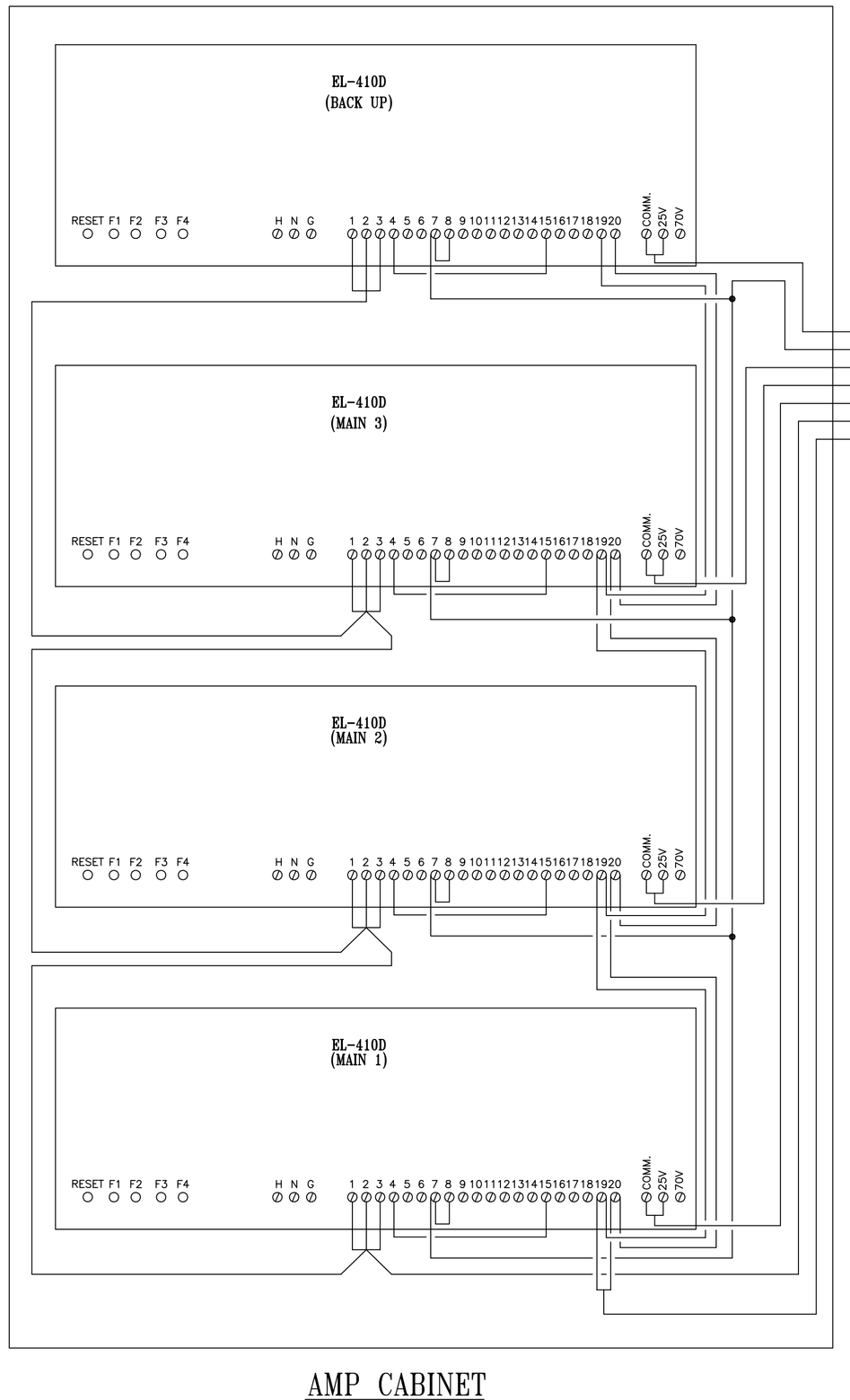
DRAWN BY: M.H.
DESIGNED BY:
CHECKED BY:
APPROVED BY:
DATE DRAWN: 06/22/98
JOB NO.: 3886
SCALE: NONE

SHEET NUMBER
10
OF
11

DRAWING NO: 3886-11







AMP CABINET

MXLV- FIRE ALARM CONTROL PANEL

Koorsen Protection Services
Fire, Safety & Security Specialist Since 1946
2719 N. ARLINGTON AVE. INDIANAPOLIS IN 46218 (317)542-1800

NO.	DESCRIPTION	BY	DATE
1	AS-BUILTS	MH	9/99
2	AS-BUILTS	MH	3/00

REVISIONS

INDIANA UNIVERSITY
MERRILL HALL/MUSICAL ARTS
BLOOMINGTON, INDIANA
FIRE ALARM
CONTROL PANEL DETAIL

DRAWN BY: M.H.
DESIGNED BY:
CHECKED BY:
APPROVED BY:
DATE DRAWN: 06/22/98
JOB NO.: 3886
SCALE: NONE

SHEET NUMBER
11 OF 11

DRAWING NO: 3886-11

PRESENT MEMORIAL BUILDING

PROPOSED SCHOOL OF MUSIC BUILDING

FIRST FLOOR LEVEL 804.0"
BASEMENT FLOOR LEVEL 793.9"
BOTTOM OF FOOTINGS LEVEL 778.0"

200'-0"

110'-0"

SIDE WALK

THIRD STREET

PLOT PLAN
SCALE 1"=10'

ELEVATIONS MARKED ARE FINISH GRADE APPROXIMATE
ELEVATIONS IN SIDE ARE PUBLIC SURVEY APPROXIMATE

SIDEWALK GRADE AT EAST END OF MONUMENT 799.4"

N

DRIVE

PWA DIARY DOCKET NO. Ind-1087

FEDERAL EMERGENCY ADMINISTRATION OF PUBLIC WORKS

Complete Specifications and Plans Sheets ___ to ___ inclusive approved by

[signature]
District Engineer

11/4/38

APPROVED [signature]
Acting State Director

Date

· SCHOOL OF MUSIC ·
· FOR INDIANA UNIVERSITY ·

ROBERT FROST DAGGETT-ARCHITECT
922 ELECTRIC BLDG. INDIANAPOLIS, INDIANA

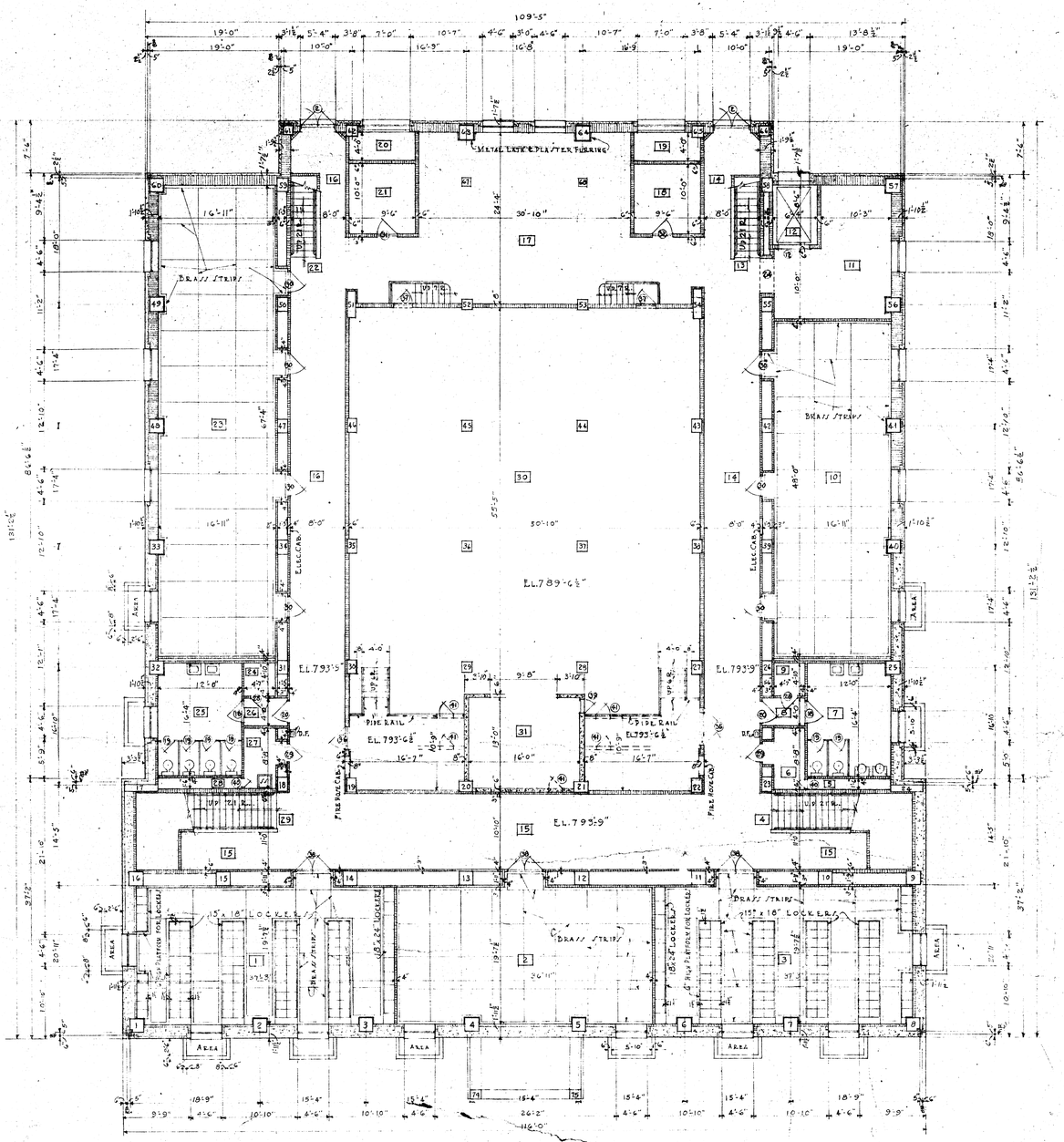
DRAWN BY
TRACED BY
CHECKED BY

PROJECT NUMBER 3503

PLOT PLAN

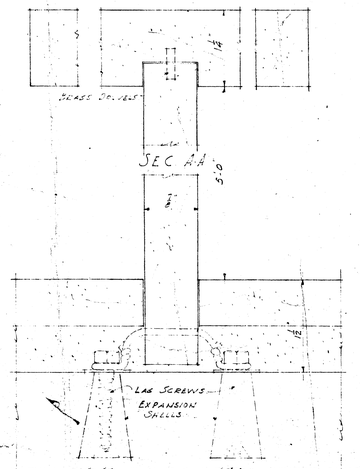
SHEET No. 1
OF ___ SHEETS

DATE 11-7-38
SCALE 1"=10'

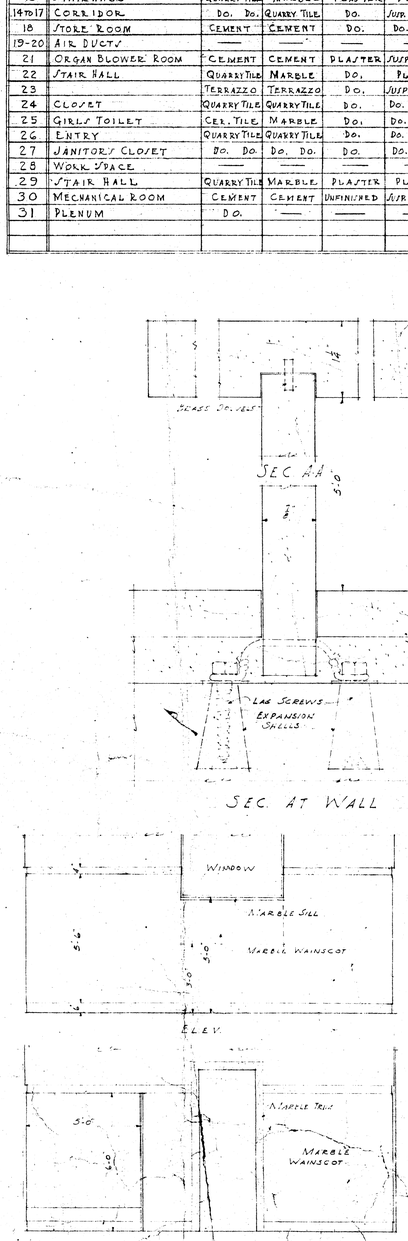


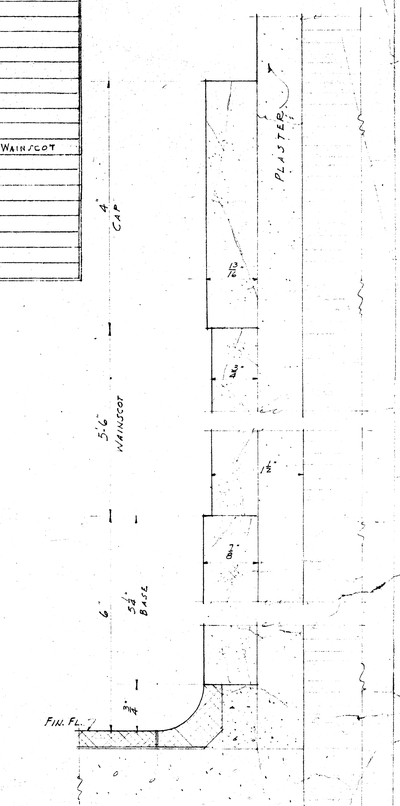
ROOM SCHEDULE

№	NAME	FLOOR	BASE	WALLS	CEILING	REMARKS
1	GIRLS LOCKER ROOM	TERRAZZO	TERRAZZO	PLASTER	SUSP. PLASTER	
2	MUSEUM	DO.	DO.	DO.	DO. DO.	
3	BOYS LOCKER ROOM	DO.	DO.	DO.	DO. DO.	
4	STAIR HALL	QUARRY TILE	MARBLE	DO.	DO. DO.	
5	WORK SPACE	—	—	—	—	
6	CLOSET	QUARRY TILE	QUARRY TILE	PLASTER	SUSP. PLASTER	
7	BOYS TOILET	CER. TILE	MARBLE	DO.	DO. DO.	MARBLE WAINSCOT
8	ENTRY	QUARRY TILE	QUARRY TILE	DO.	DO. DO.	
9	CLOSET	DO. DO.	DO. DO.	DO.	DO. DO.	
10		TERRAZZO	TERRAZZO	DO.	DO. DO.	
11	RECEIVING ROOM	QUARRY TILE	QUARRY TILE	DO.	DO. DO.	
12	ELEVATOR	—	—	—	—	
13	STAIR HALL	QUARRY TILE	MARBLE	PLASTER	PLASTER	
14 TO 17	CORRIDOR	DO. DO.	QUARRY TILE	DO.	SUSP. PLASTER	
18	STORE ROOM	CEMENT	CEMENT	DO.	DO. DO.	
19-20	AIR DUCTS	—	—	—	—	
21	ORGAN BLOWER ROOM	CEMENT	CEMENT	PLASTER	SUSP. PLASTER	
22	STAIR HALL	QUARRY TILE	MARBLE	DO.	PLASTER	
23		TERRAZZO	TERRAZZO	DO.	SUSP. PLASTER	
24	CLOSET	QUARRY TILE	QUARRY TILE	DO.	DO. DO.	
25	GIRLS TOILET	CER. TILE	MARBLE	DO.	DO. DO	MARBLE WAINSCOT
26	ENTRY	QUARRY TILE	QUARRY TILE	DO.	DO. DO.	
27	JANITORS CLOSET	DO. DO.	DO. DO.	DO.	DO. DO.	
28	WORK SPACE	—	—	—	—	
29	STAIR HALL	QUARRY TILE	MARBLE	PLASTER	PLASTER	
30	MECHANICAL ROOM	CEMENT	CEMENT	UNFINISHED	SUSP. PLASTER	
31	PLENUM	DO.	—	—	—	

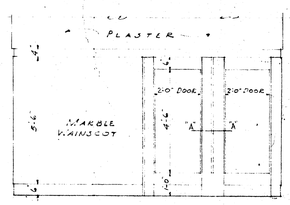


SEC. AT WALL





SEC. THRU WAINSCOT



ELEV

TYPICAL TOILET ROOM DETAILS
SCALE ¾"=1'-0"

BASEMENT FLOOR PLAN
SCALE ⅛"=1'-0"

THIS PLAN CERTIFIED BY Robert Frost Daggett REGISTERED ARCHT.

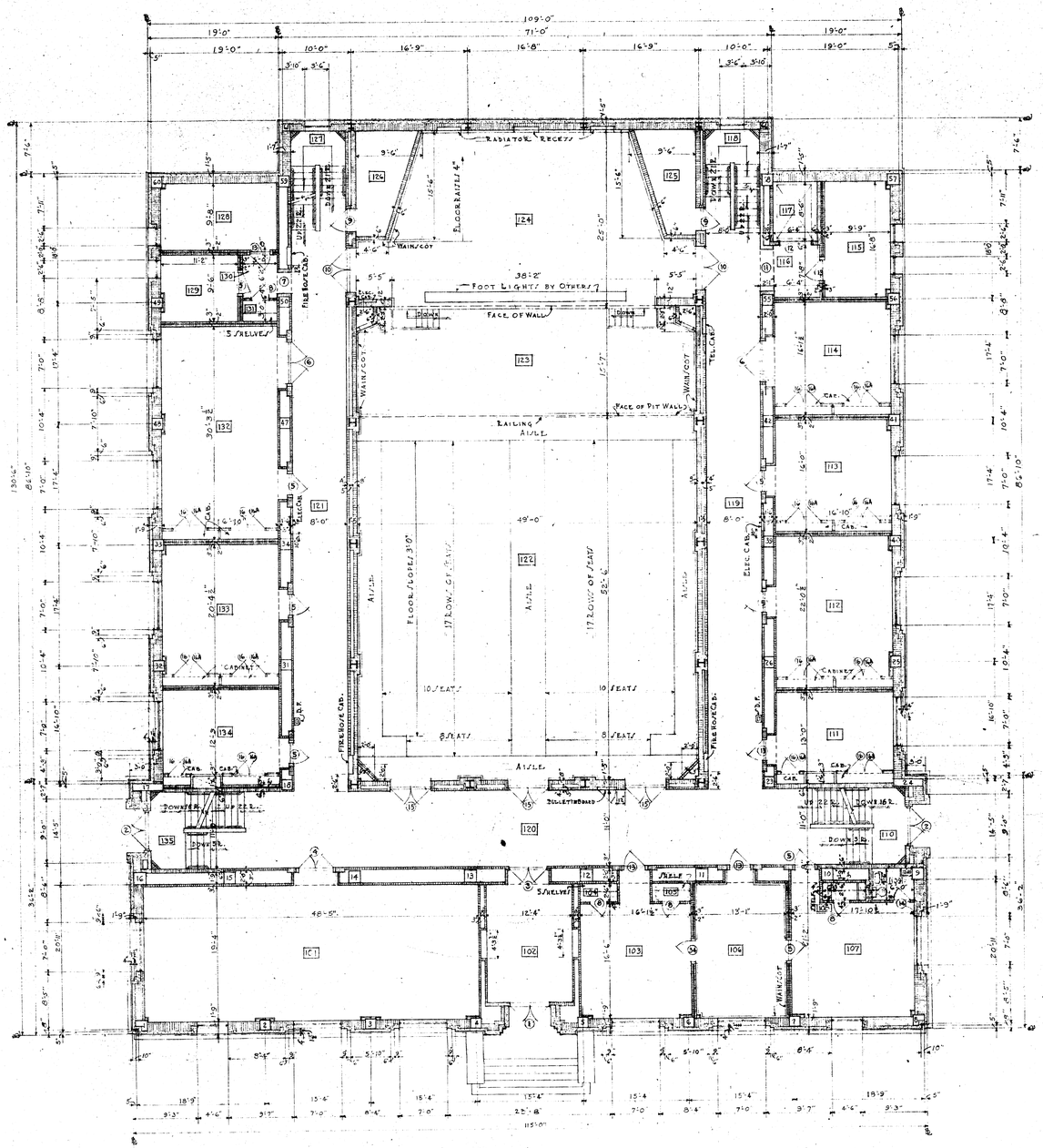
KEY TO MATERIAL
- STONE
- CONCRETE
- MASONERY BACKUP AND PARTITION

SCHOOL OF MUSIC
FOR INDIANA UNIVERSITY
ROBERT FROST DAGGETT-ARCHITECT
928 ELECTRIC BLDG. INDIANAPOLIS, INDIANA

DRAWN BY
TRACED BY
CHECKED BY
PROJECT NUMBER 3503

BASEMENT FLOOR PLAN AND TOILET RM. DETAILS

SHEET No 2 OF 17 SHEETS
DATE 11-7-35
SCALE ⅛"=1'-0" & ¾"=1'-0"



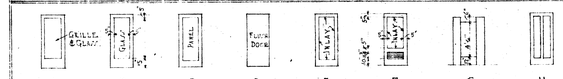
FIRST FLOOR PLAN
Scale 8'=1'-0"

ROOM SCHEDULE

Nº	NAME	FLOOR	BASE	WALLS	CEILING			REMARKS
101	STUDENT STUDY AND LOUNGE	CORK TILE	WOOD	PLASTER	SUSP. PLASTER	S.I.	—	
102	ENTRANCE LOBBY	MARBLE	MARBLE	MARBLE	DO. DO.	—	—	
103	SECRETARY	CORK TILE	WOOD	PLASTER	DO. DO.	S.I.	—	
104-105	CLOSET	DO.	DO.	DO.	DO. DO.	—	—	
106	DEAN'S OFFICE	DO.	WOOD	DO.	DO. DO.	S.I.	—	WOOD WAIN/COT
107	" STUDIO	DO.	DO.	DO.	DO. DO.	S.I.	AC. TR.	
108	CLOSET	DO.	DO.	DO.	DO. DO.	S.I.	—	
109	TOILET	CER. TILE	MARBLE	DO.	DO. DO.	S.I.	—	
110	STAIR HALL	QUARRY TILE	DO.	DO.	PLASTER	—	—	
111	CLERK'S OFFICE	CORK TILE	WOOD	DO.	SUSP. PLASTER	S.I.	—	
112 to 114	STUDIO	DO.	DO.	DO.	DO. DO.	S.I.	AC. TR.	
115	ORCHESTRA & CHOIR LIBRARY	DO.	DO.	DO.	DO. DO.	—	—	
116	ELEVATOR ENTRANCE	QUARRY TILE	MARBLE	DO.	DO. DO.	—	—	
117	ELEVATOR	——	——	——	——	—	—	
118	STAIR HALL	QUARRY TILE	MARBLE	PLASTER	PLASTER	—	—	
119 to 121	CORRIDOR	DO.	DO.	DO.	SUSP. PLASTER	S.I.	—	
122	AUDITORIUM	RUBBER	WOOD	DO.	DO. DO.	—	—	WOOD WAIN/COT-AC. TR. ON WALLS
123	ORCHESTRA PIT	WOOD	DO.	DO.	DO. DO.	—	—	WOOD WAIN/COT-AC. TR. ON WALLS
124	STAGE	DO.	DO.	DO.	DO. DO.	—	—	WOOD WAIN/COT-AC. TR. ON WALLS
125-126	ORGAN ROOM	CEMENT	CEMENT	DO.	DO. DO.	—	—	
127	STAIR HALL	QUARRY TILE	MARBLE	DO.	PLASTER	—	—	
128	INSTRUMENT ROOM	CORK TILE	WOOD	DO.	SUSP. PLASTER	S.I.	—	
129	STUDIO	DO	DO.	DO.	DO. DO.	S.I.	AC. TR.	
130	ENTRY	QUARRY TILE	MARBLE	DO.	DO. DO.	S.I.	—	
131	CLOSET	DO.	DO.	DO.	DO. DO.	S.I.	—	
132 to 134	STUDIO	CORK TILE	WOOD	DO.	DO. DO.	S.I.	AC. TR.	
135	STAIR HALL	QUARRY TILE	MARBLE	DO.	PLASTER	—	—	

NOTE:- S.I. INDICATES SOUND INSULATION - AC. TR. INDICATES ACOUSTICAL TREATEMENT

DOOR SCHEDULE ~ ALL FLOORS



Nº	SIZE	TYPE	DOOR: WOOD	DOOR: JOINTS PROOF	DOOR: HOLLOW METAL	DOOR: TIN CLAD	DOOR: FLUSH	DOOR: INLAID	DOOR: ALUMINUM	DOOR: PARTLY GLAZED	DOOR: PANEL OR LOUVER	FRAME: R. & B. COMB. DUCK & TIN	FRAME: WOOD	FRAME: STRUCTURAL STEEL	FRAME: ALUMINUM	TRIM: WOOD	TRIM: ALUMINUM	TRIM: METAL	TRIM: MARBLE	THRESHOLD: BRONZE	THRESHOLD: MARBLE	THRESHOLD: ALUMINUM	THRESHOLD: NON-METAL	THRESHOLD: FLUSH	THRESHOLD: KALZED	ASTRAGAL	REMARKS
1	5'-8" x 8'-0" x 2 1/4"	A				x	x								x		x				x				x	x	ALUMINUM TRANSOM - 1/4" PLATE GLASS
2	5'-6" x 7'-4" x 1 3/4"	B		x			x				x						x			x				x	x		
3	5'-8" x 7'-0" x 1 3/4"	B	x				x						x			+					x			x			
4	5'-0" x 7'-0" x 1 3/4"	E	x			x	x						x			x				x				x			
5	3'-0" x 7'-0" x 2 1/4"	E		x		x	x						x			x				x				x			
6	6'-0" x 7'-0" x 2 1/4"	E		x		x	x						x			x				x				x		x	
7	3'-0" x 7'-0"																											PLASTER OPENING
8	2'-6" x 7'-0" x 1 3/4"	E	x				x	+					x			x								x			
9	3'-0" x 7'-0" x 1 3/4"	E	x				x	+					x			x				x				x			
10	6'-0" x 7'-0" x 3 1/4"	E		x			x	x					x			x				x				x			
11	6'-0" x 7'-0"																											PLASTER OPENING
12	4'-0" x 7'-0"																							x	x			COUNTER BALANCED TIN CLAD DOORS
13	3'-0" x 7'-0" x 1 3/4"	E	x				x	x					x			x				x				x			
14	2'-6" x 7'-0" x 1 3/4"	F	x				x	+			x					x				x				x			
15	3'-4" x 7'-0" x 3"	E		x			x	x					x			x				x				x			
16	5'-0" x 7'-0" x 1 3/4"	E	x				x	+					x			x								x			LOWER CABINET DOORS
16A	5'-0" x TO DETAIL	E	x				x	+					x			x								x			UPPER CABINET DOORS
17	2'-6" x 7'-0" x 1 3/4"	E	x				x	+					x			x								x			
18	2'-6" x 7'-0" x 1 3/4"	F	x				x	+			x							+		x				x			
19	2'-0" x 4'-6" x 1"	G			x		x						x			x											TOILET STALL DOOR
20	2'-6" x 7'-0" x 1 3/4"	F	x				x	—			x		x			x											
21	2'-6" x 7'-0" x 1 3/4"	F	x				x	x			x		x			x				x				x			
22	3'-0" x 7'-0" x 1 3/4"	C		x							x					+		—		x				x			
23	4'-0" x 7'-0"																											PLASTER OPENING
24	5'-0" x 7'-0"																											PLASTER OPENING
25	3'-0" x 7'-0" x 1 3/4"	C		x							x						x			x				x			
26	3'-4" x 6'-6" x 2 1/4"				x						x																	
27	3'-0" x 7'-0" x 1 3/4"	C		x							x																	
28	2'-6" x 7'-0" x 1 3/4"	D	x				x				x					x											
29	2'-0" 7'-0" x 1 3/4"	E	x				x	+			x					x											
30	2'-6" x 7'-0" x 1 3/4"	E	x				x	x			x					x				x				x			
31	3'-0" x 7'-0" x 1 3/4"	F	x				x	—				x				x				x				x			
32	3'-0" x 7'-0" x 1 3/4"	E	x				x	+			x					x				x				x			
33	5'-0" x 7'-0" x 2 1/4"	E		x			x	x			x					x				x				x			
34	5'-0" x 7'-0" x 1 3/4"	E	x				x	x			x					x											
35	5'-0" x 11'-0" x 2 1/4"				x						x									x				x			
36	3'-0" x 7'-0" x 2 1/4"				x						x									x				x			
37	2'-10" x 5'-10" x 1 3/4"	H	x								x					x				x				x			
38	5'-0" x 7'-0" x 1 3/4"	E	x				x	+			x					x				x				x			
39	2'-0" x 7'-6" x 2 1/4"				x						x									x			x				
40	1'-2" x 7'-0" x 1 3/4"	D	x				x	x			x					x				x				x			
41	2'-0" x 3'-0" x 2 1/4"				x						x									x			x				

KEY TO TRIM
- INDICATES STOP SIDE
+ " HINGE "
X " BOTH "

NOTE:-
ALL BRONZE THRESHOLDS ARE INCLUDED IN FINISH HARDWARE SPECIFICATION.
2'-0" x 2'-0" TRAP DOOR IN CEILING OF PROJECTION BOTH DOOR 2 THICKNESS OF 3/4" TRANSITE BOARD - ANGLE IRON FRAME SECURED TO RUNNER BARS.

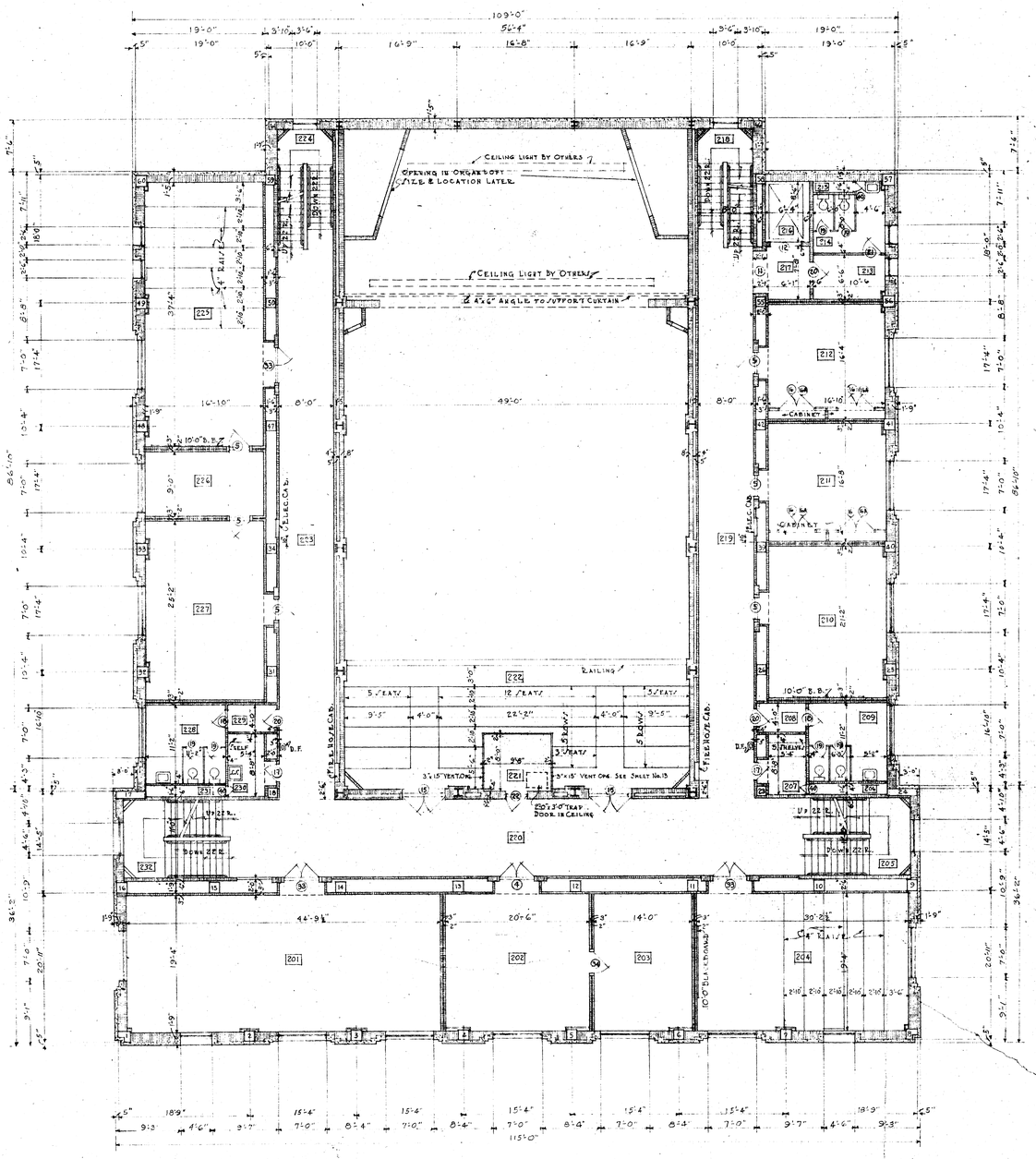
KEY TO MATERIAL
- STONE
- MASONERY BACKUP AND PARTITION

SCHOOL OF MUSIC
FOR INDIANA UNIVERSITY
ROBERT FROST DAGGETT - ARCHITECT
922 ELECTRIC BLDG. - INDIANAPOLIS, INDIANA

DRAWN BY
TRACED BY
CHECKED BY
PROJECT NUMBER 3503

FIRST FLOOR PLAN AND DOOR SCHEDULE

SHEET No. 3 OF 17 SHEETS
DATE 11-7-35
SCALE 1/8"=1'-0"



ROOM SCHEDULE

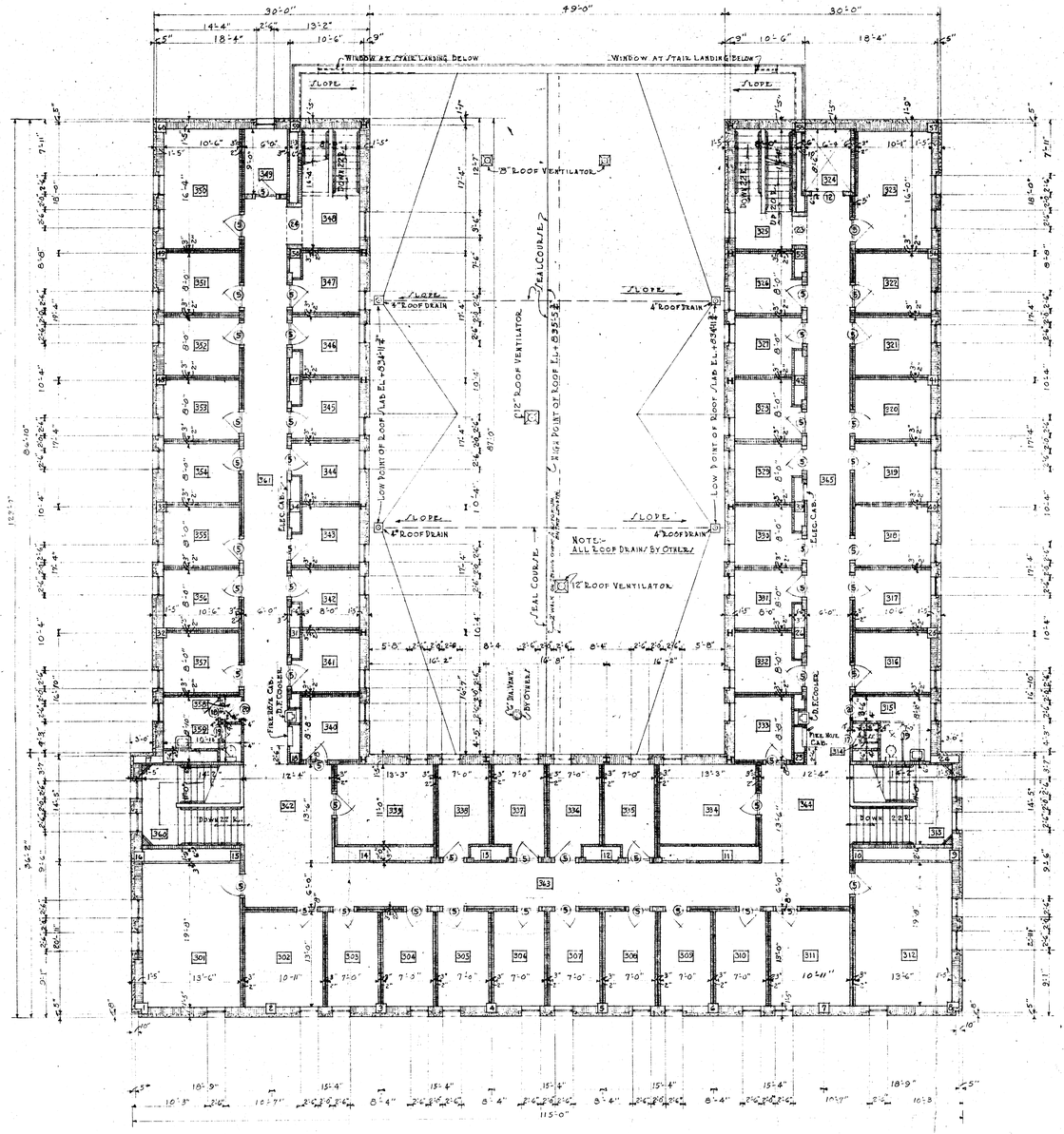
No	NAME	FLOOR	BASE	WALLS	CEILING			REMARKS
201	REHEARSAL & CLASS ROOM	CORK	WOOD	PLASTER	SUSP. PLASTER	S. I.	AC. TR.	
202	LENDING LIBRARY	DO.	DO.	DO.	DO. DO.	S. I.	—	
203	NON LENDING LIBRARY	DO.	DO.	DO.	DO. DO.	S. I.	—	
204	CLASS ROOM	DO.	DO.	DO.	DO. DO.	S. I.	AC. TR.	RAISED WOOD PLATFORM
205	STAIR HALL	QUARRY TILE	MARBLE	DO.	PLASTER	—	—	
206	WORK SPACE	—	—	—	—	—	—	
207	CLOSET	QUARRY TILE	QUARRY TILE	PLASTER	SUSP. PLASTER	—	—	
208	ENTRY	DO. DO.	MARBLE	DO.	DO. DO.	—	—	
209	TOILET	CER. TILE	DO.	DO.	DO. DO.	—	—	MARBLE WAIN/COT
210	CLASS ROOM	CORK	WOOD	DO.	DO. DO.	S. I.	AC. TR.	
211-212	STUDIO	DO.	DO.	DO.	DO. DO.	S. I.	AC. TR.	
213	REST ROOM	QUARRY TILE	MARBLE	DO.	DO. DO.	—	—	
214	TOILET	CER. TILE	DO.	DO.	DO. DO.	—	—	MARBLE WAIN/COT
215	WORK SPACE	—	—	—	—	—	—	
216	ELEVATOR	—	—	—	—	—	—	
217	ELEVATOR ENTRANCE	QUARRY TILE	MARBLE	PLASTER	SUSP. PLASTER	—	—	
218	STAIR HALL	DO. DO	DO.	DO.	PLASTER	—	—	
219-220	CORRIDOR	DO. DO.	DO.	DO.	SUSP. PLASTER	S. I.	—	
221	PROJECTION BOOTH	RUBBER	RUBBER	DO.	DO. DO.	—	—	
222	BALCONY	DO.	DO.	DO.	DO. DO.	—	—	WALLS ACOUSTICAL TREATED
223	CORRIDOR	QUARRY TILE	MARBLE	DO.	DO. DO.	S. I.	—	
224	STAIR HALL	DO. DO.	DO.	DO.	PLASTER	—	—	
225	CLASS ROOM	CORK	WOOD	DO.	SUSP. PLASTER	S. I.	AC. TR.	RAISED WOOD PLATFORM
226	RECORD ROOM	DO.	DO.	DO.	DO. DO.	S. I.	AC. TR.	
227	PHONOGRAPH & RECORDING	DO.	DO.	DO.	DO. DO.	S. I.	AC. TR.	
228	TOILET	CER. TILE	MARBLE	DO.	DO. DO.	—	—	MARBLE WAIN/COT
229	ENTRY	QUARRY TILE	DO.	DO.	DO. DO.	—	—	
230	JANITOR/CLOSET	DO. DO.	QUARRY TILE	DO.	DO. DO.	—	—	
231	WORK SPACE	—	—	—	—	—	—	
232	STAIR HALL	QUARRY TILE	MARBLE	DO.	PLASTER	—	—	

NOTE:- S. I. INDICATES SOUND INSULATION – AC. TR. INDICATES ACOUSTICAL TREATMENT

SECOND FLOOR PLAN
Scale 1/8"=1'-0"

SCHOOL OF MUSIC
FOR INDIANA UNIVERSITY
ROBERT FROST DAGGETT-ARCHITECT
922 ELECTRIC BLDG INDIANAPOLIS, INDIANA

DRAWN BY TRACED BY CHECKED BY	SECOND FLOOR PLAN	SHEET No. 4 OF 17 SHEETS
PROJECT NUMBER 3503		DATE 11-7-35 SCALE 1/8"=1'-0"

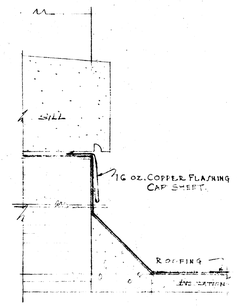


• THIRD • FLOOR • PLAN •
Scale 8=1'-0"

• ROOM • SCHEDULE •

Nº	NAME	FLOOR	BASE	WALLS	CEILING		REMARKS
301 to 312	PRACTICE ROOM	CORK	WOOD	PLASTER	SUSP. PLASTER	—	AC. TR.
313	STAIR HALL	QUARRY TILE	MARBLE	DO.	DO.	DO.	—
314	JANITOR CLOSET	DO. DO.	QUARRY TILE	DO.	DO.	DO.	—
315	BOYS' TOILET	CER. TILE	MARBLE	DO.	DO.	DO.	— MARBLE WAINSCOT
316 to 323	PRACTICE ROOMS	CORK	WOOD	DO.	DO.	DO.	— AC. TR.
324	ELEVATOR	—	—	—	—	—	—
325	STAIR HALL	QUARRY TILE	MARBLE	PLASTER	SUSP. PLASTER	—	—
326 to 347	PRACTICE ROOMS	CORK	WOOD	DO.	DO.	DO.	— AC. TR.
348	STAIR HALL	QUARRY TILE	MARBLE	DO.	DO.	DO.	—
349 to 357	PRACTICE ROOMS	CORK	WOOD	DO.	DO.	DO.	— AC. TR.
358	ENTRY	QUARRY TILE	MARBLE	DO.	DO.	DO.	—
359	GIRLS' TOILET	CER. TILE	DO.	DO.	DO.	DO.	— MARBLE WAINSCOT
360	STAIR HALL	QUARRY TILE	DO.	DO.	DO.	DO.	—
361 to 365	CORRIDOR	DO. DO.	DO.	DO.	DO.	DO.	— AC. TR.

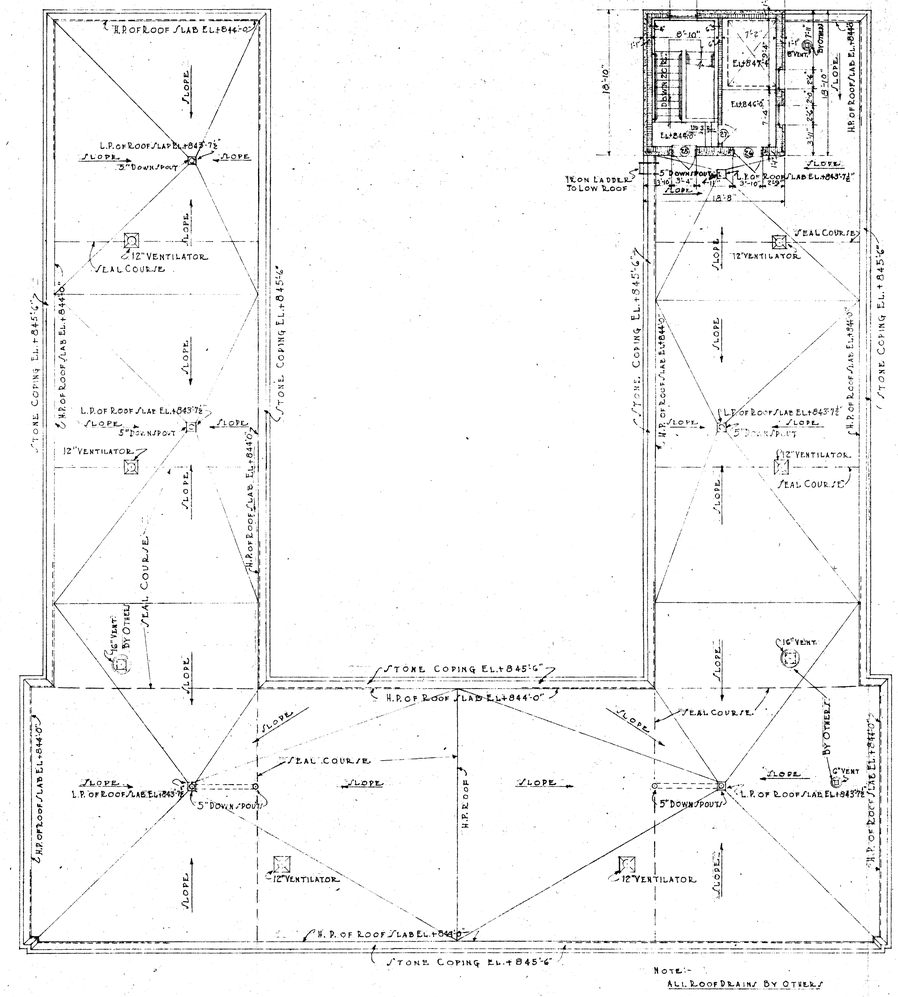
NOTE:- AC. TR. INDICATES ACOUSTICAL TREATMENT



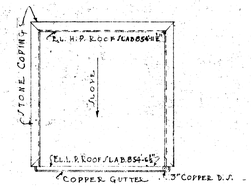
• SEC. • THRU • FLASHING •
SOUTH EAST WEST WALLS
ROOF OVER AUDITORIUM.
Scale 3"=1'

• METHOD • OF • JOINING •
• CAP • FLASHING •

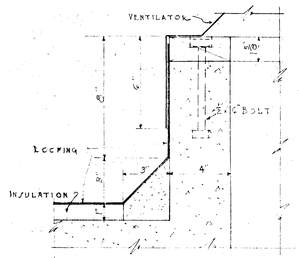
• SCHOOL • OF • MUSIC •
• FOR • INDIANA • UNIVERSITY •
ROBERT FROST DAGGETT-ARCHITECT
952 ELECTRIC BLDG -INDIANAPOLIS, INDIANA
DRAWN BY
TRACED BY
CHECKED BY
PROJECT NUMBER 3503
• THIRD • FLOOR • PLAN •
SHEET No. 5 OF 17 SHEETS
DATE 11-7-35
SCALE 1/8"=1'-0"



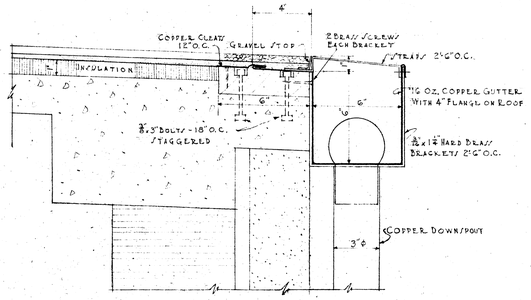
ROOF & PENT HOUSE FLOOR PLAN
Scale ⅛"=1'-0"



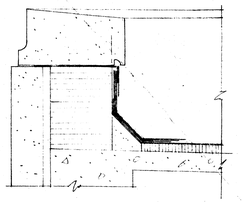
PENT HOUSE ROOF PLAN
Scale ¼"=1'-0"



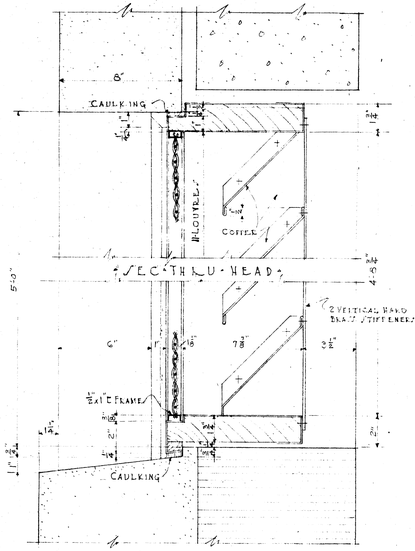
SECTION THRU CURB FOR VENTILATOR
Scale 3"=1'-0"



DETAIL OF PENT HOUSE ROOF GUTTER
Scale 3"=1'-0"



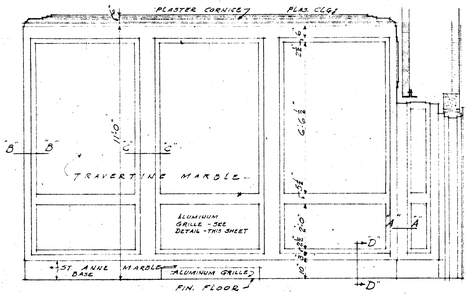
DETAIL SHOWING FLASHING
Scale 1½"=1'-0"



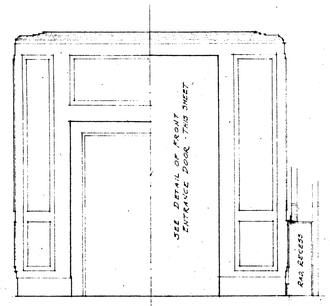
DETAILS OF AIR INTAKE AND EXHAUST LOUVRES
Scale 3"=1'-0"

SCHOOL OF MUSIC
FOR INDIANA UNIVERSITY
ROBERT FROST DAGGETT-ARCHITECT
522 ELECTRIC BLDG. INDIANAPOLIS, INDIANA

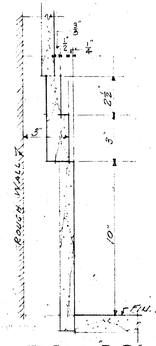
DRAWN BY	ROOF & PENT HOUSE FLOOR PLAN	SHEET No. 6 OF 17 SHEETS
TRACED BY		DATE 11-7-35
CHECKED BY		SCALE ⅛"=1'-0"
PROJECT No. 3503		



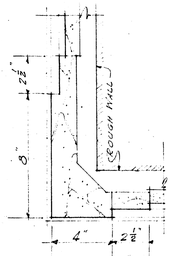
WEST ELEVATION
SCALE 3/8"=1'-0"



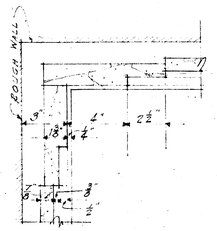
½ ELEVATION OF NORTH ½ ELEVATION OF SOUTH
SCALE 3/8"=1'-0"



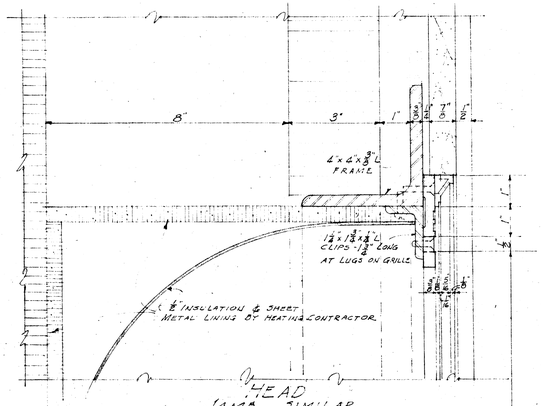
SEC. D-D
Scale 3"=1'-0"



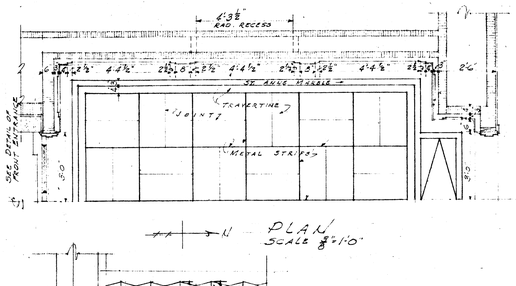
SEC. A-A
SCALE 3"=1'-0"



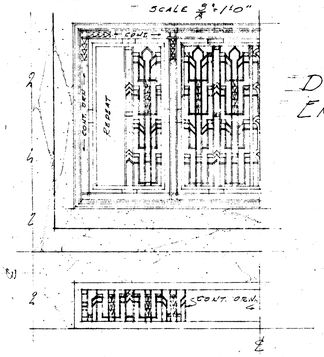
SEC. B-B
SCALE 3"=1'-0"



½ F.S. SECTION THRU RAD. RECESS

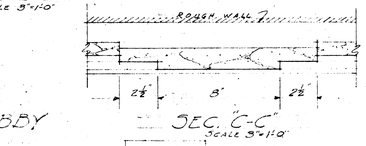


PLAN
SCALE 3/8"=1'-0"

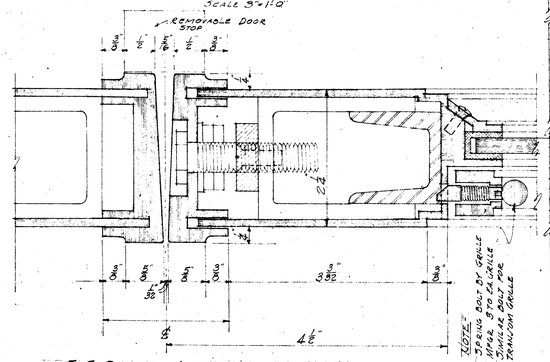


HALF ELEVATION OF RADIATOR GRILLE
SCALE 1½"=1'-0"

DETAILS OF ENTRANCE LOBBY

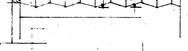


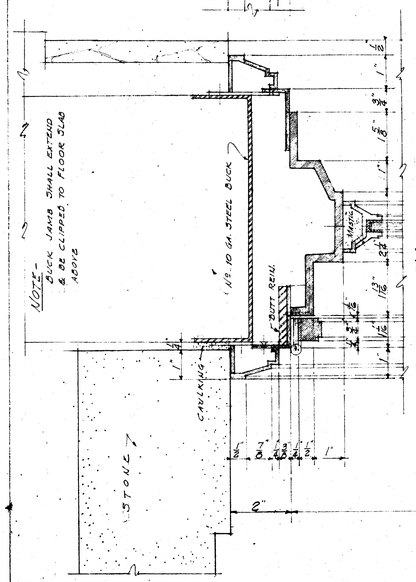
SEC. C-C
SCALE 3"=1'-0"

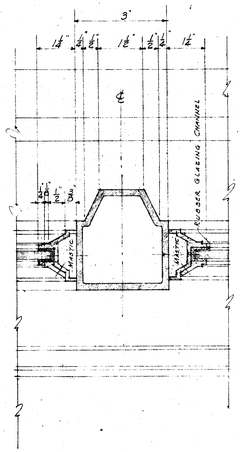


F.S.D. OF ASTRAGAL FOR FRONT DOORS

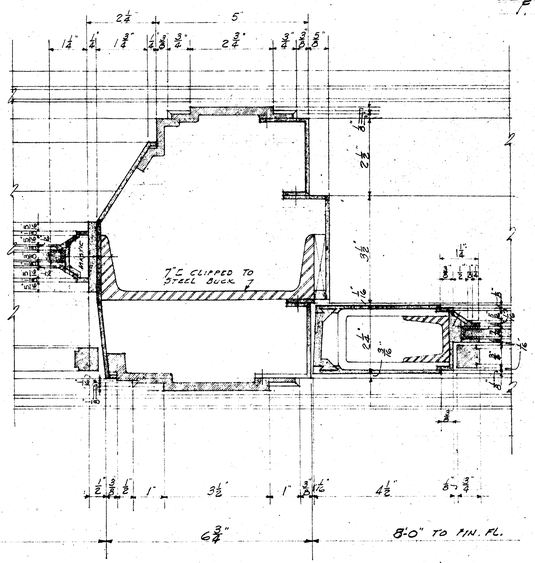
½ F.S.D. OF ORN ON TRANSOM BAR



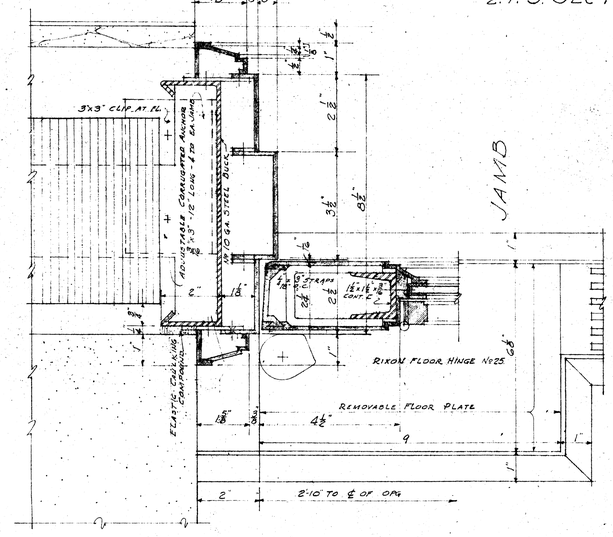




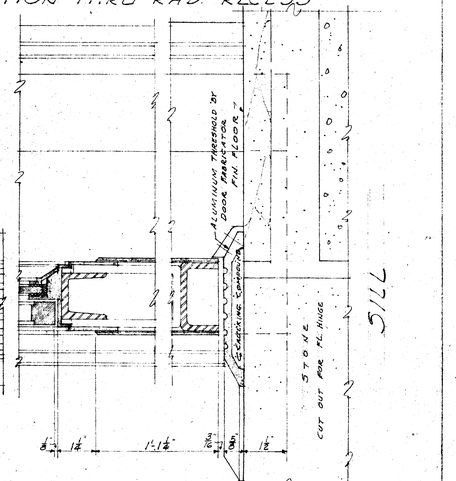
MULLION



TRANSOM BAR



JAMB

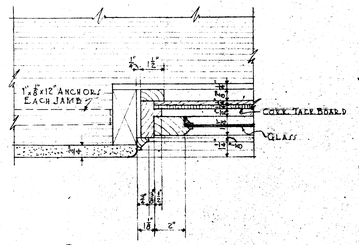


SILL

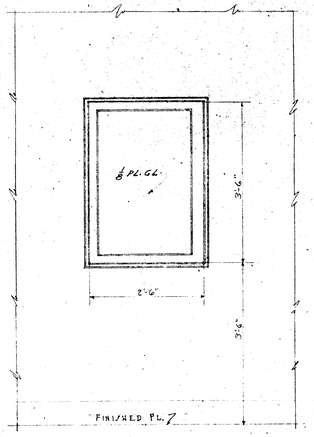
½ F.S. DETAIL OF FRONT ENTRANCE DOORS

SCHOOL OF MUSIC
FOR INDIANA UNIVERSITY
ROBERT FROST DAGGETT-ARCHITECT
922 ELECTRIC BLDG INDIANAPOLIS, INDIANA

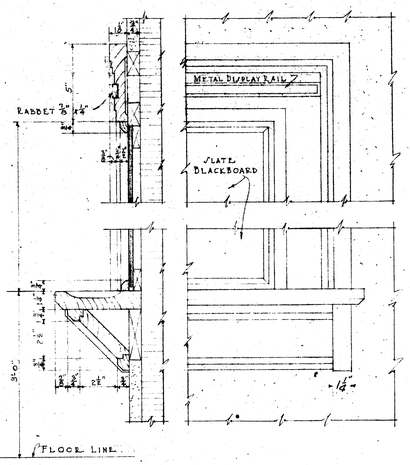
DRAWN BY FJN	ENTRANCE DOOR & LOBBY DETAILS	SHEET No. 12	
TRACED BY		OF SHEETS	
CHECKED BY			
PROJECT NUMBER 3503		DATE Nov 7, 1935	
		SCALE As Noted	



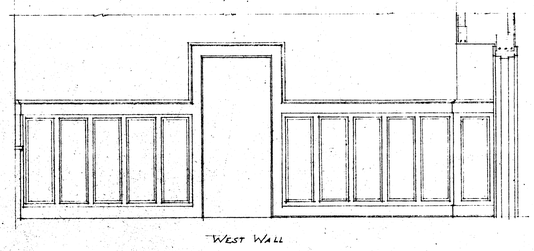
SEC. THRU BULLETIN BOARD
Scale 3"=1'0"

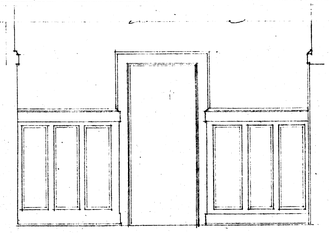


ELEVATION OF BULLETIN BOARD
Scale 3/4"=1'0"

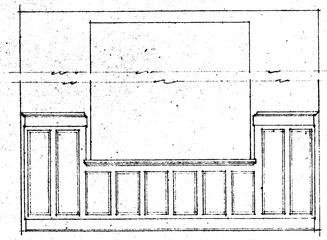


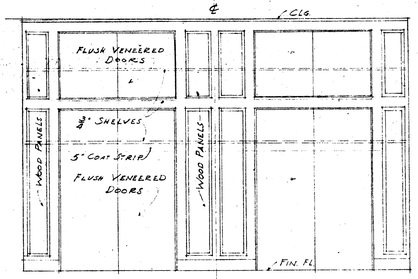
SECTION ELEVATION
DETAILS OF BLACKBOARDS
Scale 3"=1'0"

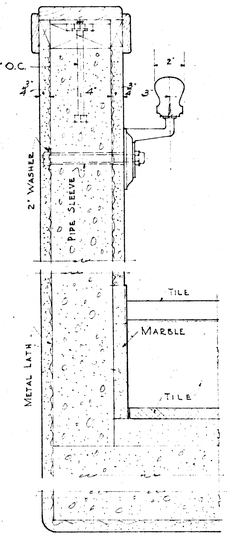




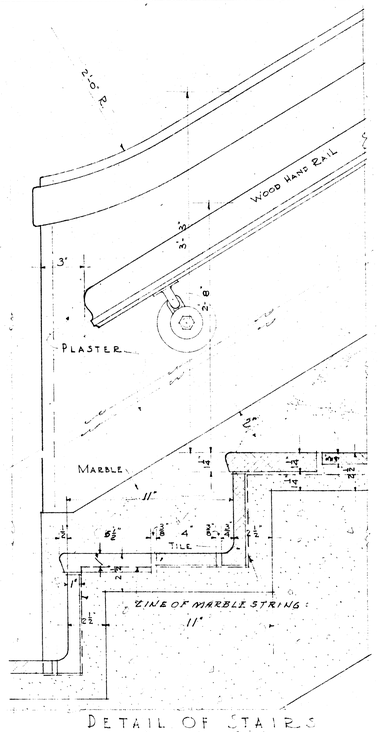
DETAIL OF WAINSCOT IN DEAN'S RM. NO. 106
Scale 3/4"=1'0"



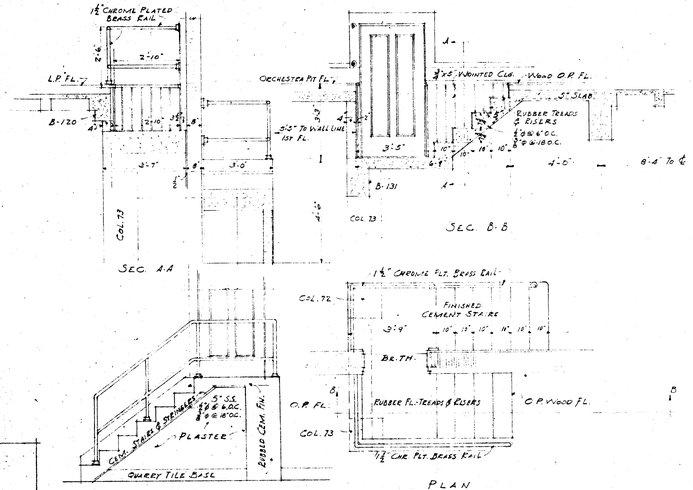




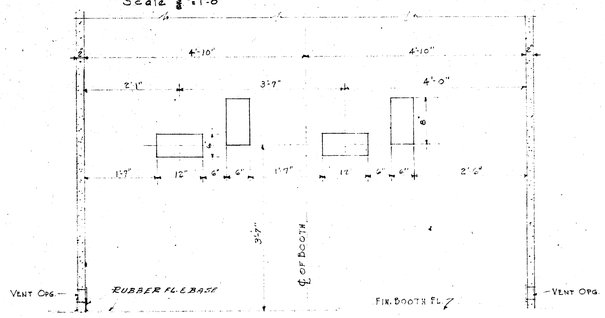
SECTION THRU HAND RAIL WALL
SCALE 3"=1'0"



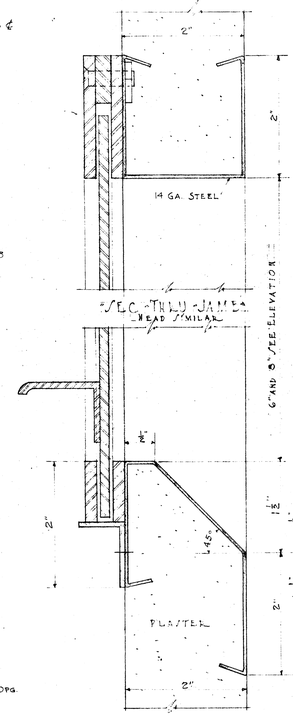
DETAIL OF STAIRS
SCALE 3"=1'0"



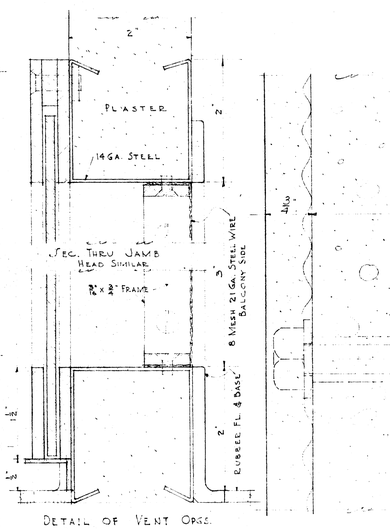
DETAIL OF STAIRS TO ORCHESTRA PIT
Scale 3/4"=1'0"



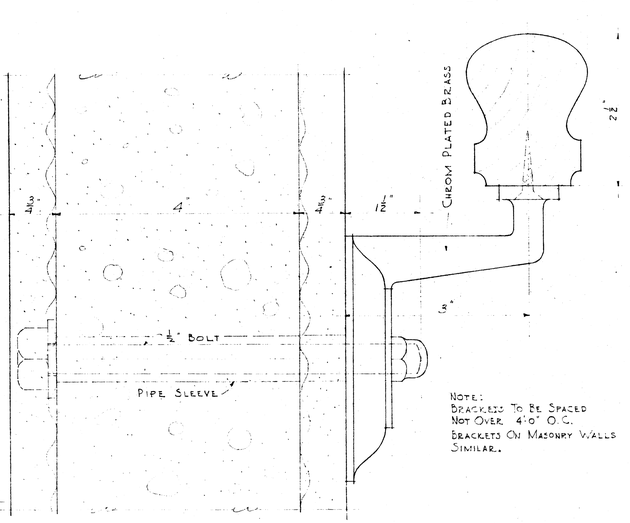
INSIDE ELEVATION OF PROJECTION BOOTH SHOWING OPENINGS
Scale 3/4"=1'0"



SEC. THRU SILL
DETAIL OF PROJECTION BOOTH OPENINGS
Scale F.S.



DETAIL OF VENT OPGS. IN PROJECTION BOOTH AT FLOOR LINE.
2 REQD. 3"x15"
SCALE F.S.

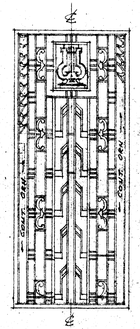


NOTE:
BRACKETS TO BE SPACED NOT OVER 4'0" O.C.
BRACKETS ON MASONRY WALLS SIMILAR.

DETAIL OF HANDRAIL & BRACKET
SCALE F.S.

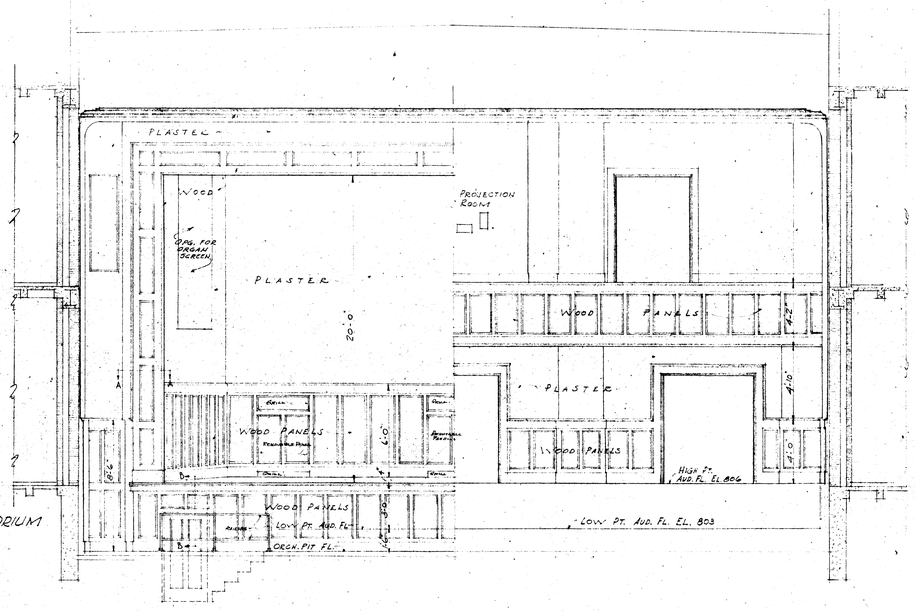
SCHOOL OF MUSIC
FOR INDIANA UNIVERSITY
ROBERT FROST DAGGETT-ARCHITECT
922 ELECTRIC BLDG. INDIANAPOLIS, INDIANA

DRAWN BY	
TRACED BY	
CHECKED BY	
PROJECT NUMBER	3503
	INTERIOR DETAILS
SHEET No.	13
OF	17 SHEETS
DATE	11-7-35
SCALE	AS NOTED

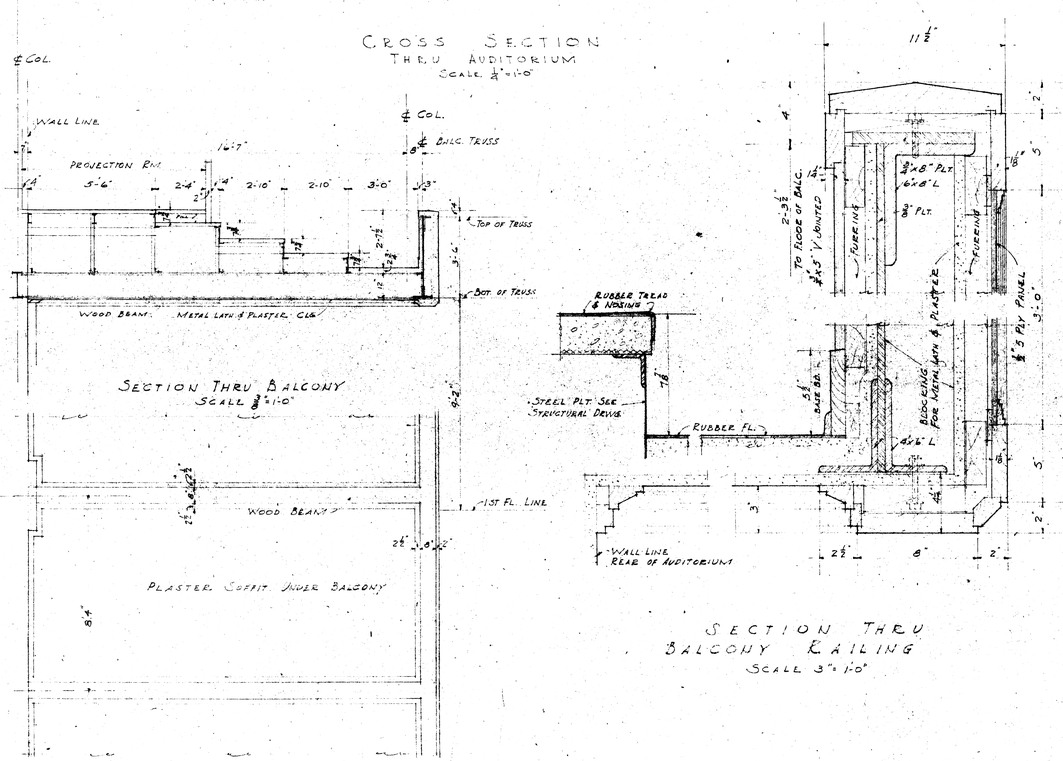


CAST PLASTER FOR FRESH AIR INLET IN AUDITORIUM
SCALE 3"=1'-0"

NOTE – SUBMIT MODEL FOR ARCHITECTS APPROVAL



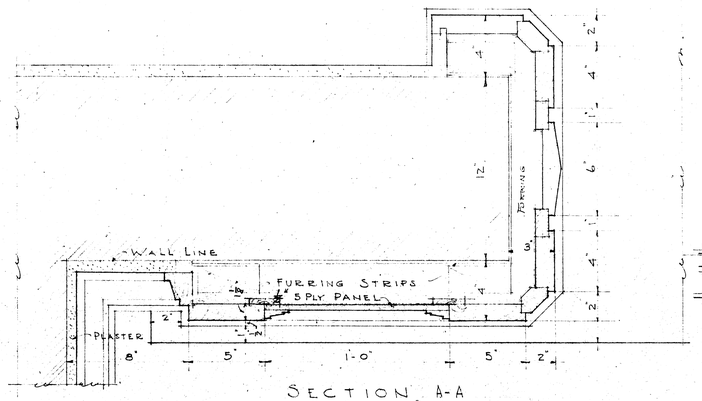
CROSS SECTION THRU AUDITORIUM
SCALE 1/4"=1'-0"



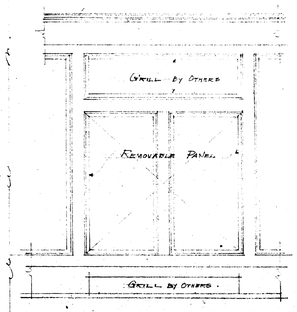
SECTION THRU BALCONY
SCALE 3/8"=1'-0"

BALCONY CEILING
SCALE 3/8"=1'-0"

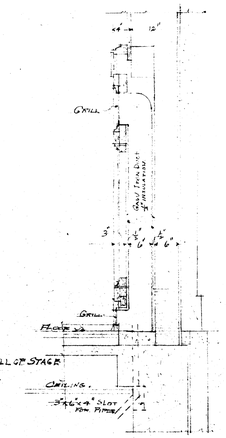
SECTION THRU BALCONY RAILING
SCALE 3"=1'-0"

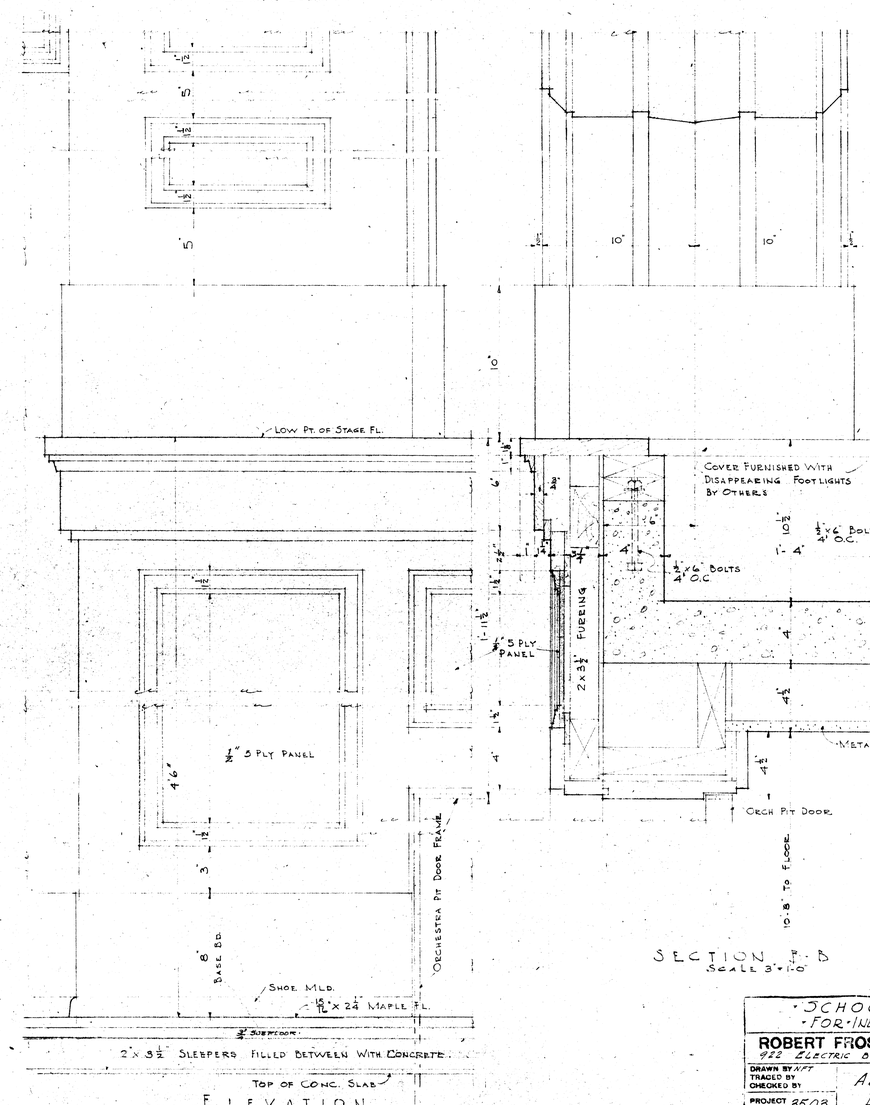


SECTION A-A
SCALE 3"=1'-0"



DETAIL OF RAD. RECESS REAR WALL OF STAGE
SCALE 3/4"=1'





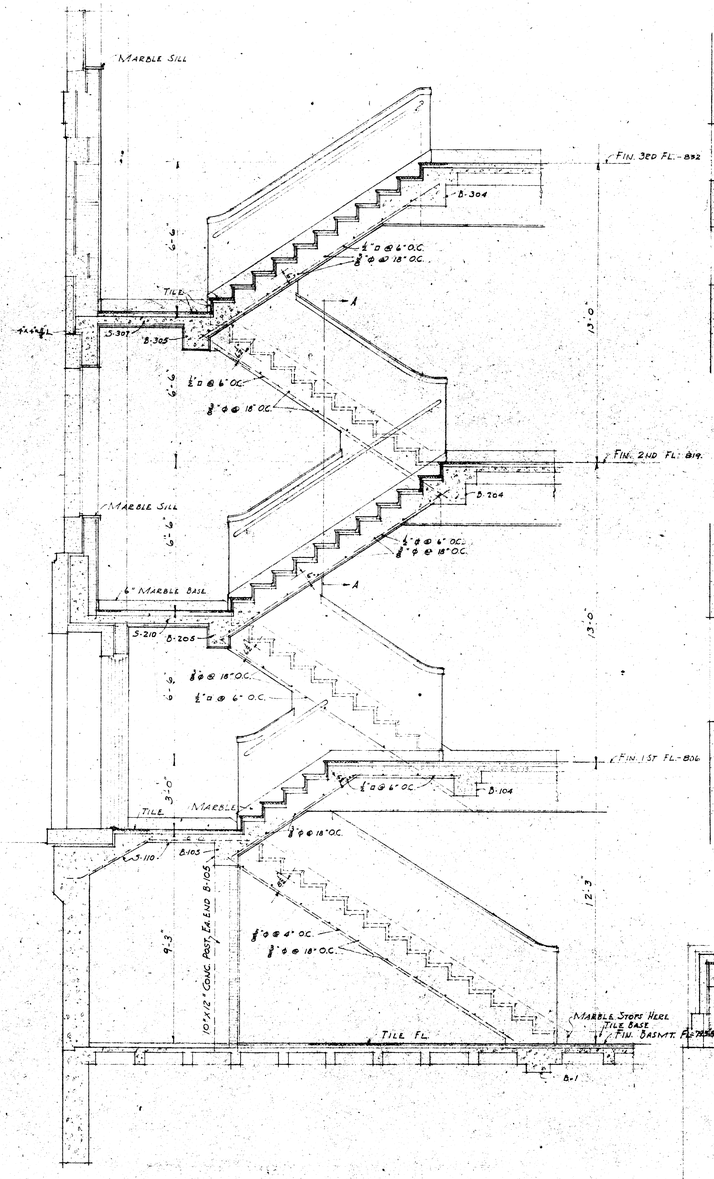
ELEVATION
SCALE 3"=1'-0"

SECTION E-D
SCALE 3"=1'-0"

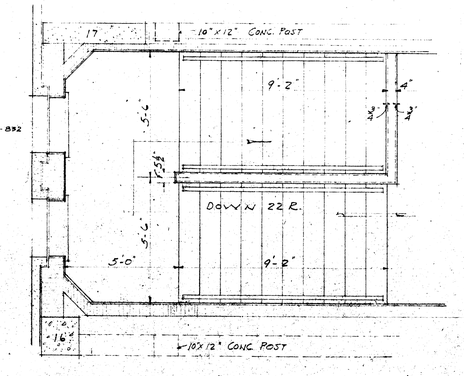
· SCHOOL · OF · MUSIC ·
· FOR · INDIANA · UNIVERSITY ·

ROBERT FROST DAGGETT-ARCHITECT
922 ELECTRIC BLDG. INDIANAPOLIS, INDIANA

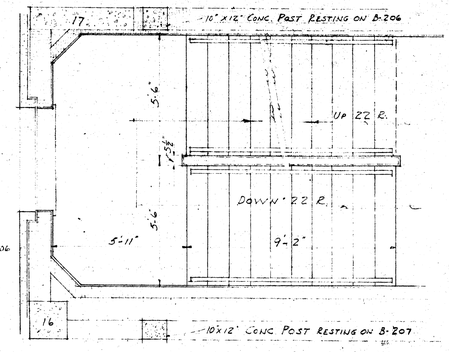
DRAWN BY AFT TRACED BY CHECKED BY	AUDITORIUM DETAILS
PROJECT NUMBER 3503	SHEET No. 14 OF 17 SHEETS DATE NOV. 7, 1935 SCALE AS NOTED



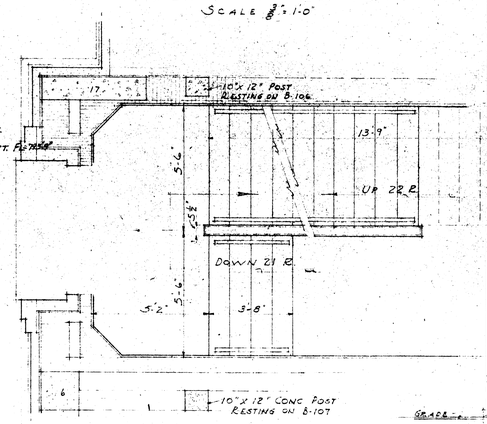
SECTION THRU FRONT STAIRS
SCALE ⅜"=1'-0"



PLAN AT 3RD FL.
SCALE ⅜"=1'-0"

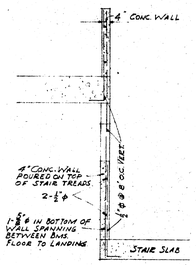


PLAN AT 2ND FL.
SCALE ⅜"=1'-0"

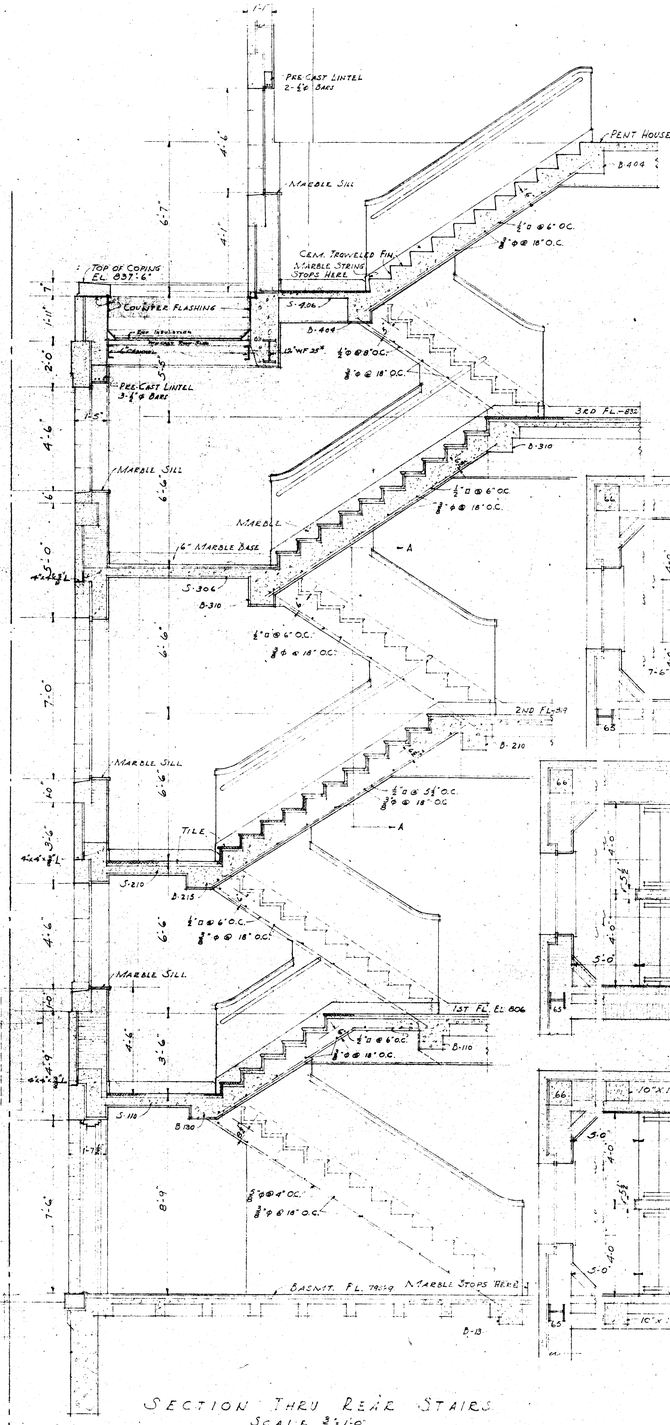


PLAN AT 1ST FL.
SCALE ⅜"=1'-0"

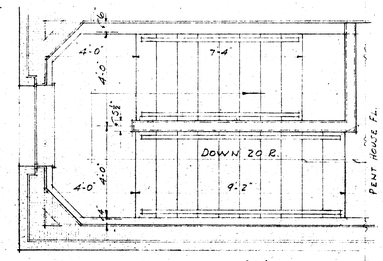
FRONT STAIR DETAILS



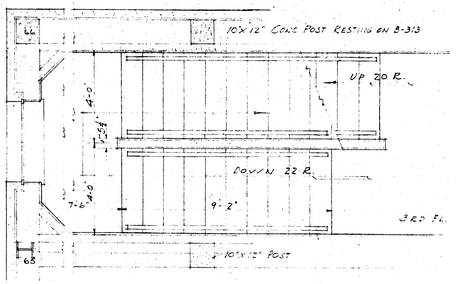
TYPICAL SEC. A-A.
SHOWING REINFORCING



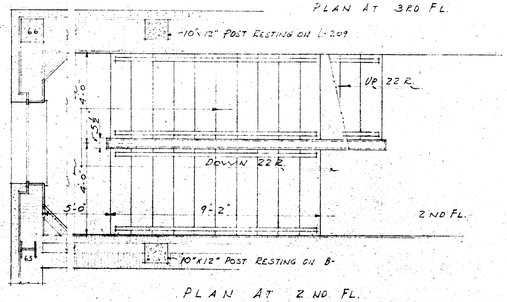
SECTION THRU REAR STAIRS
SCALE ⅜"=1'-0"



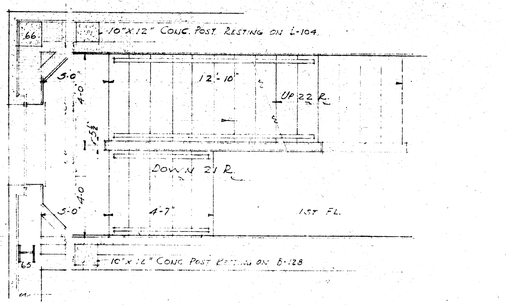
PLAN AT PENT HOUSE FL.



PLAN AT 3RD FL.



PLAN AT 2ND FL.



PLAN AT 1ST FL.
SCALE ⅜"=1'-0"

NOTE:
FOR FURTHER STAIR DETAILS
SEE SHEET NO.

REAR STAIR DETAILS

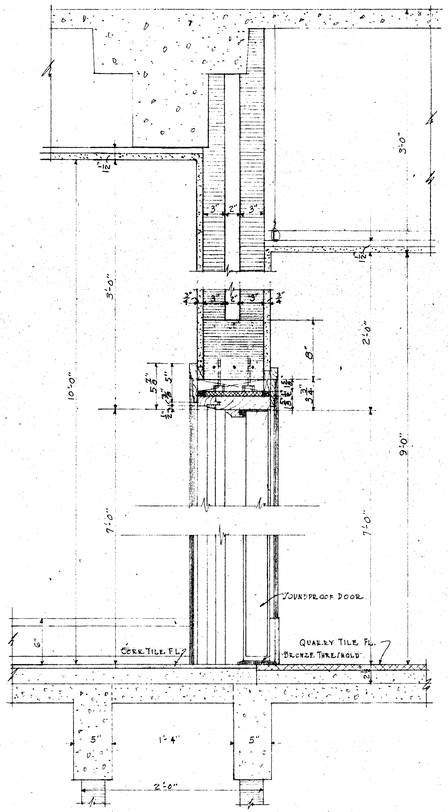
· SCHOOL · OF · MUSIC ·
· FOR · INDIANA · UNIVERSITY ·
ROBERT FROST DAGGETT-ARCHITECT
922 ELECTRIC BLDG. INDIANAPOLIS, INDIANA

DRAWN BY
TRACED BY
CHECKED BY

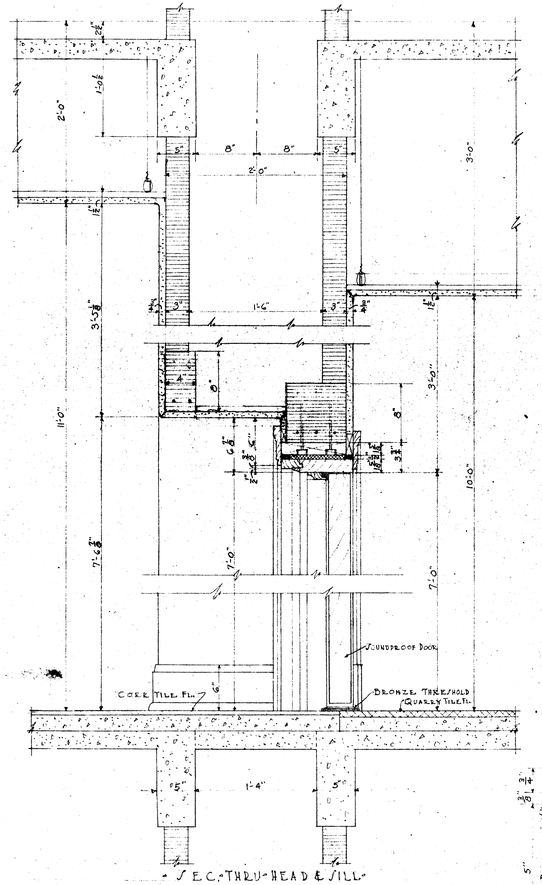
STAIR DETAILS

PROJECT NUMBER 3503

SHEET No. 15 OF 17 SHEETS
DATE 11-1-35
SCALE ⅜"=1'-0"



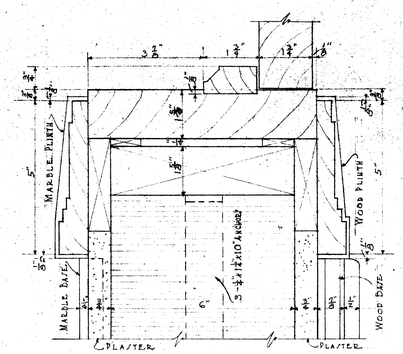
SEC. THRU HEAD & SILL



SEC. THRU HEAD & SILL

DETAIL TYPICAL CORRIDOR DOORS 1ST & 2ND FL.

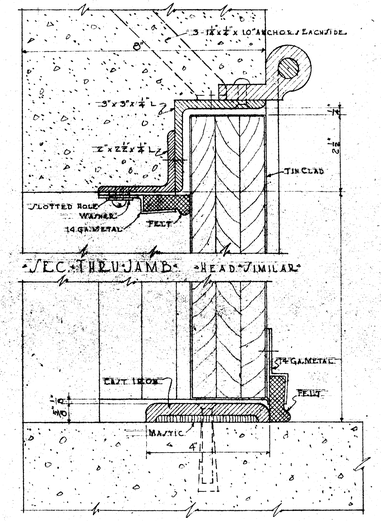
Scale 1½"=1'-0"



SEC. THRU JAMB

DETAIL OF DOOR IN 6" WALL.

Scale 1½" F.S.

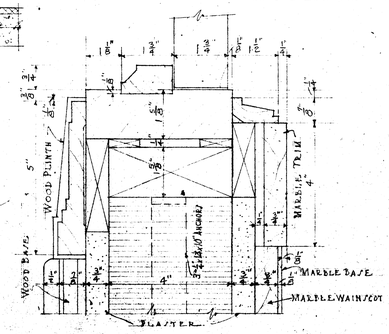


SEC. THRU JAMB & HEAD SIMILAR

SEC. THRU BOTTOM OF DOOR & THRESHOLD

DETAILS OF DOOR IN PLENUM

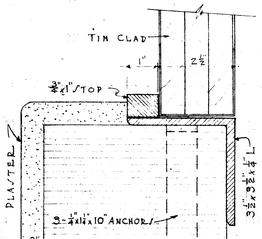
Scale 1½" Full Size



SEC. THRU JAMB

DETAIL DOORS TO TOILET ROOMS

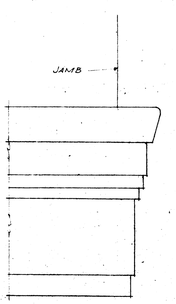
Scale 1½" F.S.



SEC. THRU JAMB

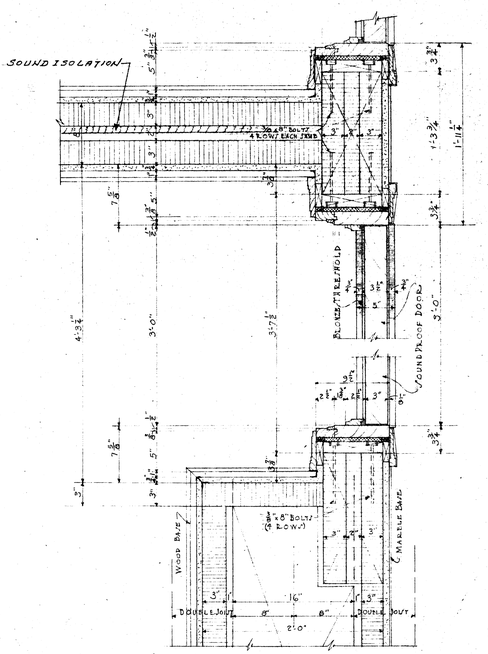
HEAD SIMILAR

DETAIL OF DOORS IN MECHANICAL RM.



TYPICAL WOOD STOOL & APRON & BASE DD.

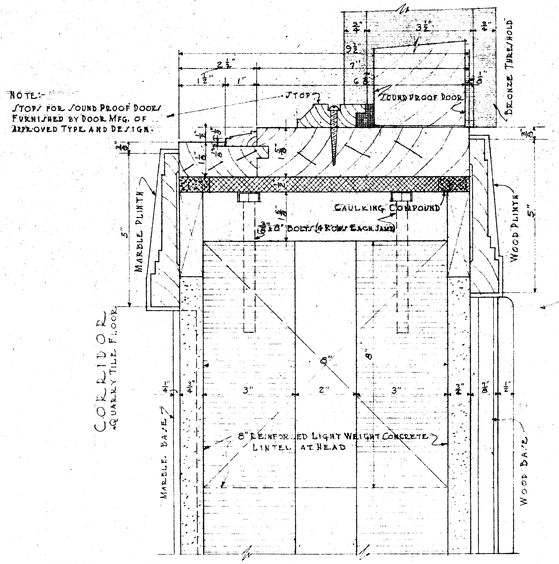
Scale ½ Full Size



SEC. THRU JAMB

DETAIL TYPICAL 3RD FL. CORRIDOR DOORS

Scale 1½"=1'-0"



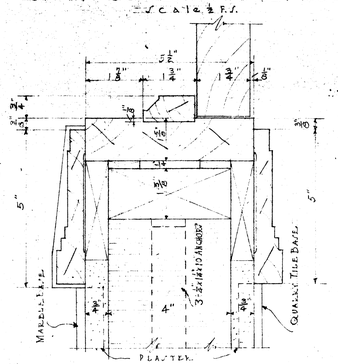
NOTE: FRAMES FOR 1¾" THICK FLUSH DOORS SHALL BE SIMILAR TO ABOVE EXCEPT THAT FRAMES SHALL BE RABBETED FOR STOP.

SEC. THRU JAMB

HEAD SIMILAR

TYPICAL DETAIL FOR DOORS IN 8" WALLS

Scale ½ Full Size



SEC. THRU JAMB

DETAIL TYPICAL DOORS IN 4" WALLS

Scale ½ F.S.

SCHOOL OF MUSIC
FOR INDIANA UNIVERSITY

ROBERT FROST DAGGETT-ARCHITECT

922 ELECTRIC BLDG. INDIANAPOLIS, INDIANA

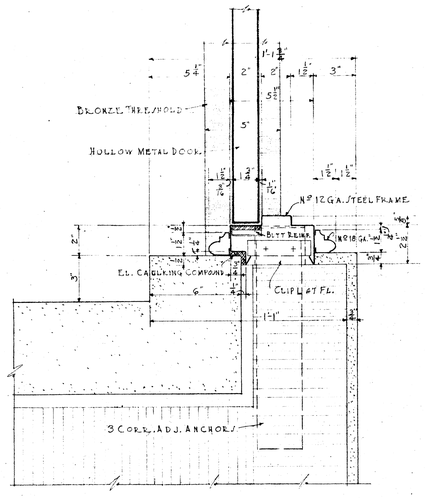
DRAWN BY	
TRACED BY	
CHECKED BY	
PROJECT NUMBER	3503

DETAILS OF DOOR FRAMES

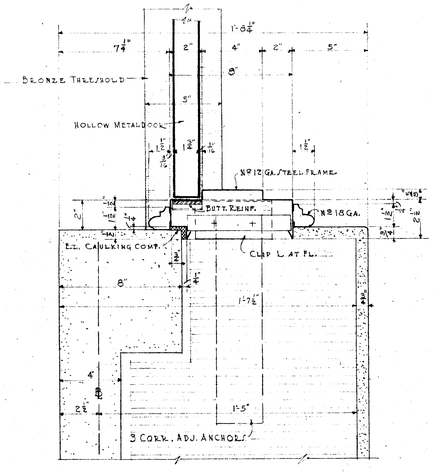
SHEET No. 16 OF 17 SHEETS

DATE 11-7-35

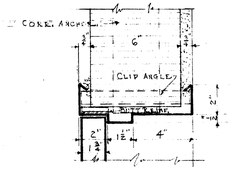
SCALE AS NOTED



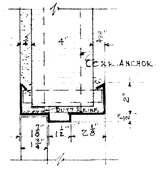
SECTION THRU JAMB
HEAD SIMILAR
EAST & WEST STAIR HALL ENTRANCE DOORS
Scale 3"=1'-0"



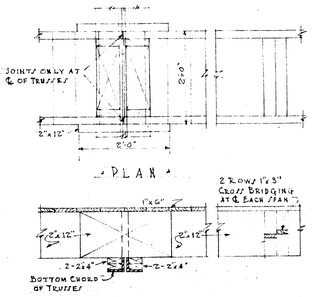
SECTION THRU JAMB
HEAD SIMILAR
NORTH STAIR HALL BASEMENT ENTRANCE DOORS
Scale 3"=1'-0"



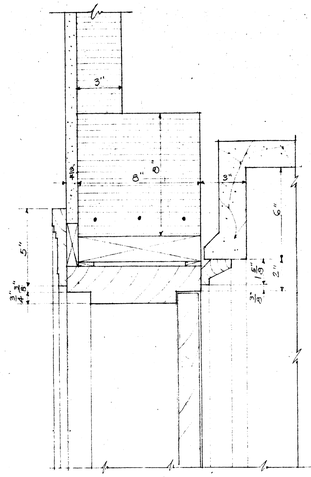
SEC. THRU JAMB
HEAD SIMILAR
DETAIL OF DOOR FROM STAIR HALL TO PENT HOUSE
Scale 3"=1'-0"



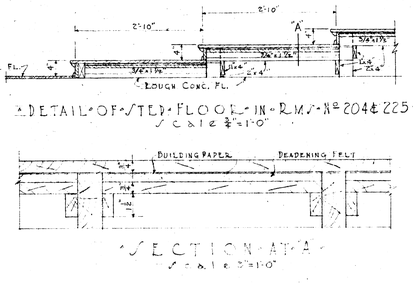
SEC. THRU JAMB
HEAD SIMILAR
DETAIL OF DOOR TO WORK SPACE
Scale 3"=1'-0"



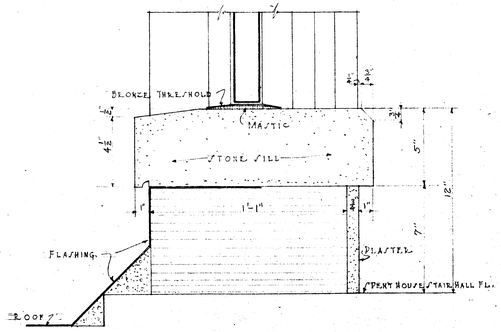
DETAILS OF ATTIC WALK
Scale 3/4"=1'-0"



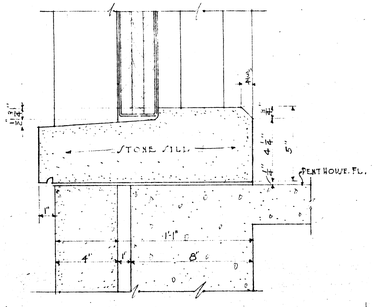
DETAIL OF STEP FLOOR IN RM's No 204 & 225
Scale 3/4"=1'-0"



SECTION AT A
Scale 3"=1'-0"

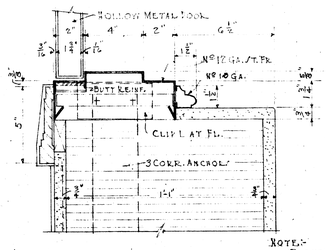


SECTION THRU SILL

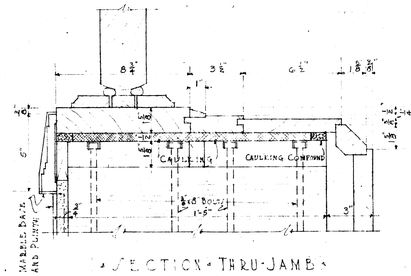


SECTION THRU SILL

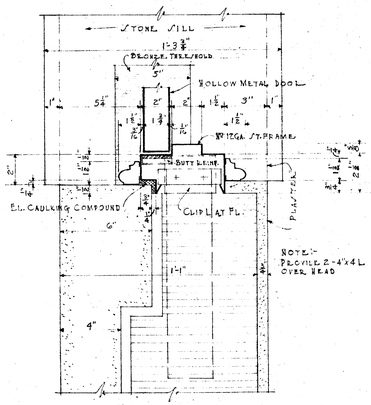
SEC THRU SILL & HEAD



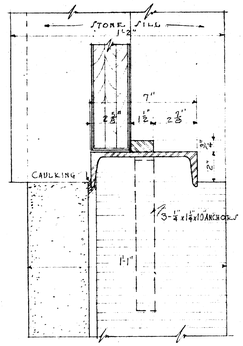
SEC. THRU JAMB
HEAD SIMILAR
DETAIL OF DOOR TO PROJECTION BOOTH
Scale 3"=1'-0"



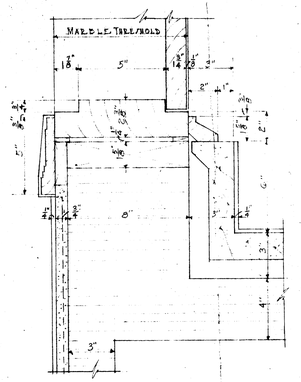
SECTION THRU JAMB
HEAD SIMILAR
DETAIL OF AUDITORIUM DOORS
Scale 3"=1'-0"



SECTION THRU JAMB
HEAD SIMILAR
DETAIL OF DOOR FROM STAIR HALL TO ROOF
Scale 3"=1'-0"



SECTION THRU JAMB
HEAD SIMILAL
DETAIL OF DOOR FROM PENT HOUSE TO ROOF
Scale 3"=1'-0"



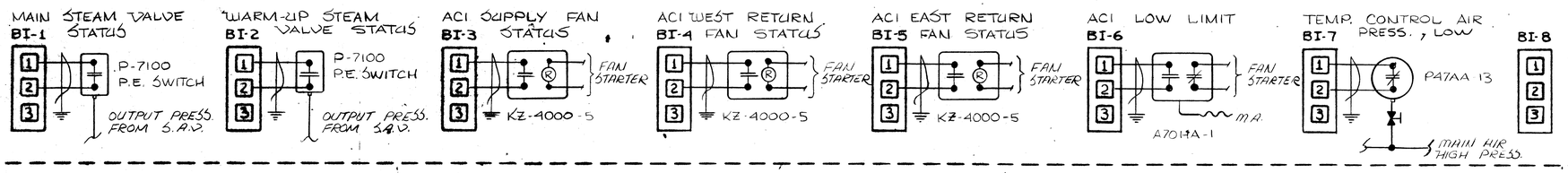
SEC. THRU JAMB
DETAIL OF LOBBY DOORS
Scale 3"=1'-0"

SCHOOL OF MUSIC
FOR INDIANA UNIVERSITY
ROBERT FROST DAGGETT ARCHITECT
922 ELECTRIC BLDG. INDIANAPOLIS, INDIANA

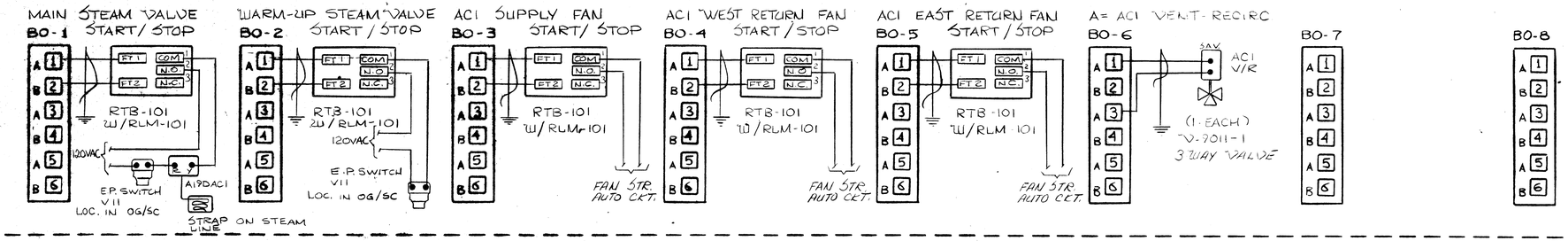
DRAWN BY	DETAILS OF DOORS & FRAMES
TRACED BY	SHEET No. 17 OF 17 SHEETS
CHECKED BY	DATE 11-7-35
PROJECT NUMBER 3503	SCALE AS NOTED

DSC-8500 INPUT / OUTPUT TERMINATION

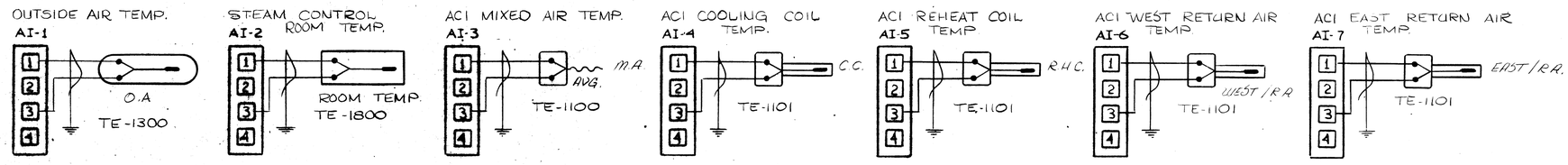
BINARY INPUT POINTS



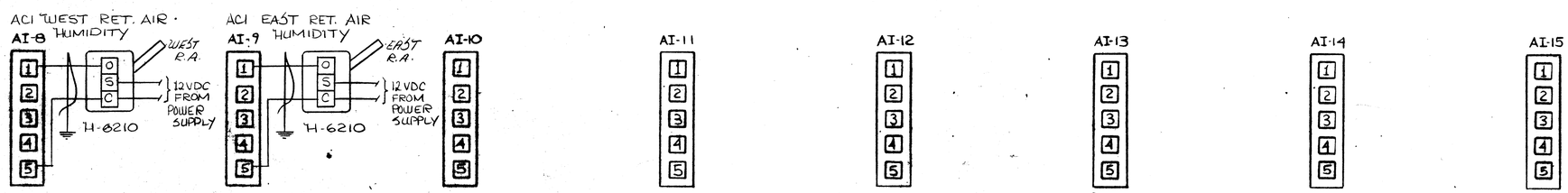
BINARY OUTPUT POINTS



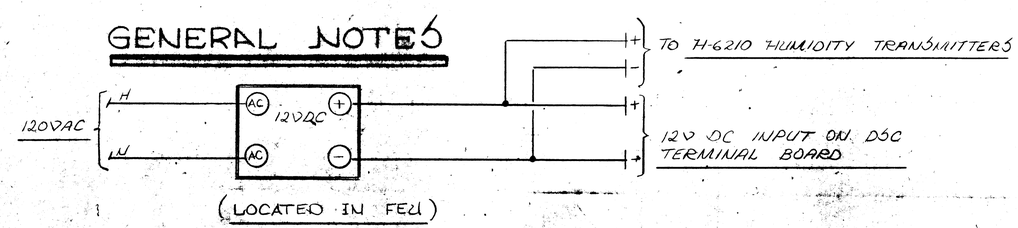
ANALOG INPUT POINTS / NON-SWITCHED COMMON



ANALOG INPUT POINTS / SWITCHED COMMON



GENERAL NOTES



SHEET 18 OF 18

DRAWING TITLE: MUSIC BUILDING BASEMENT MECH ROOM DSC 8500 #7 (MASTER)					
REFERENCE DRAWINGS	NO.	REVISION – LOCATION	BY	DATE	BY
SALES ENGR. W. TOTH	APPLICATION ENGR. J.J. FREDERICK	DRAWN MWH DATE 3-25-85	BY	APPROVED DATE 3-27-85	
PROJECT: INDIANA UNIVERSITY MUSIC BUILDING BLOOMINGTON, INDIANA	JOHNSON CONTROLS Systems & Services Division			CONTRACT NUMBER 5022-5027	
				DRAWING NUMBER 8522-5027-18	

ORDER NO. 17880
11-85-8.011

Note Power Service to clear other Services at this Point

4"c-4-500M.-W.P.600V. Cables

See Plot Plan

2"c. Public Phone

Up To Recpt.

Up To Main Light & Power Service Sw.

Up To Panel

Up To Main Telephone Terminal

Up To Sw. & Plot

Up To Recpt.

Up To Panel

Up To Recpt.

Up To Recpt.

Up To Recpt.

Up To Recpt.

Up To Recpt.

Up To Recpt.

Up To Recpt.

Rear Border 1"c-8-#12

Front Border 1"c-10-#12

30 A. 3 P.S.T. Sw. 3/4"c-3-#10 Ea. Organ Heater

Special J.B.

3/4"c-2-#8 Organ Motor

9 Section Stage & House Panel

Stage Phone

1/2"

SM

House & Stage Cont. Sw.

2-1"c 12-#12 Each To Panel 'S' For Control

Special Lt.

3/4"c-3-#8

Four 3-1"c-#6 #12 Each

Flush J.B.

1"c-2

Annunciating Terminal 16"x36"x5 1/16" Bottom

1 1/2"c

2"c-3-#1

1"c-6-#10

G.E. Cutler Meter & Meter

400 A. 4 P.S.T. Fused Main Switch

See Basic Plan For Power Layout

4"c-4-500 M. C.M. Cables Power & Light Service

Main Light Panel Boards

Panel T1-18 Cir.

1 1/2"c-4-#3

Panel S1-14-Cir. 150 A. Branch

1 1/2"c-4-#3

Panel F1-12 Cir.

1 1/2"c-4-#3

1 1/2"c-4-#4

Panel D1-18 Cir.

Panel B2-14 Cir.

T1

T2

S1

S2

F1

F2

D1

D2

Panel T2-18 Cir.

1 1/2"c-4-#4

Panel S2-14 Cir.

Flush J.B.

1"c-2

1 1/2"c-4-#4

Panel F2-12 Cir.

1 1/2"c-4-#4

J.B. 12"x24"x5

1 1/2"c-4-#6

3/4"c

Rectifier Private Phones

Main Public Phone Term. 24"x36"x4"

2"c-Public Phone Service

Riser Diagram

House & Stage Switches

Both Phone

2-100 A. Packets

Lighting Under Balcony

Third Floor

Second Floor

First Floor

Basement

Foundation Plan

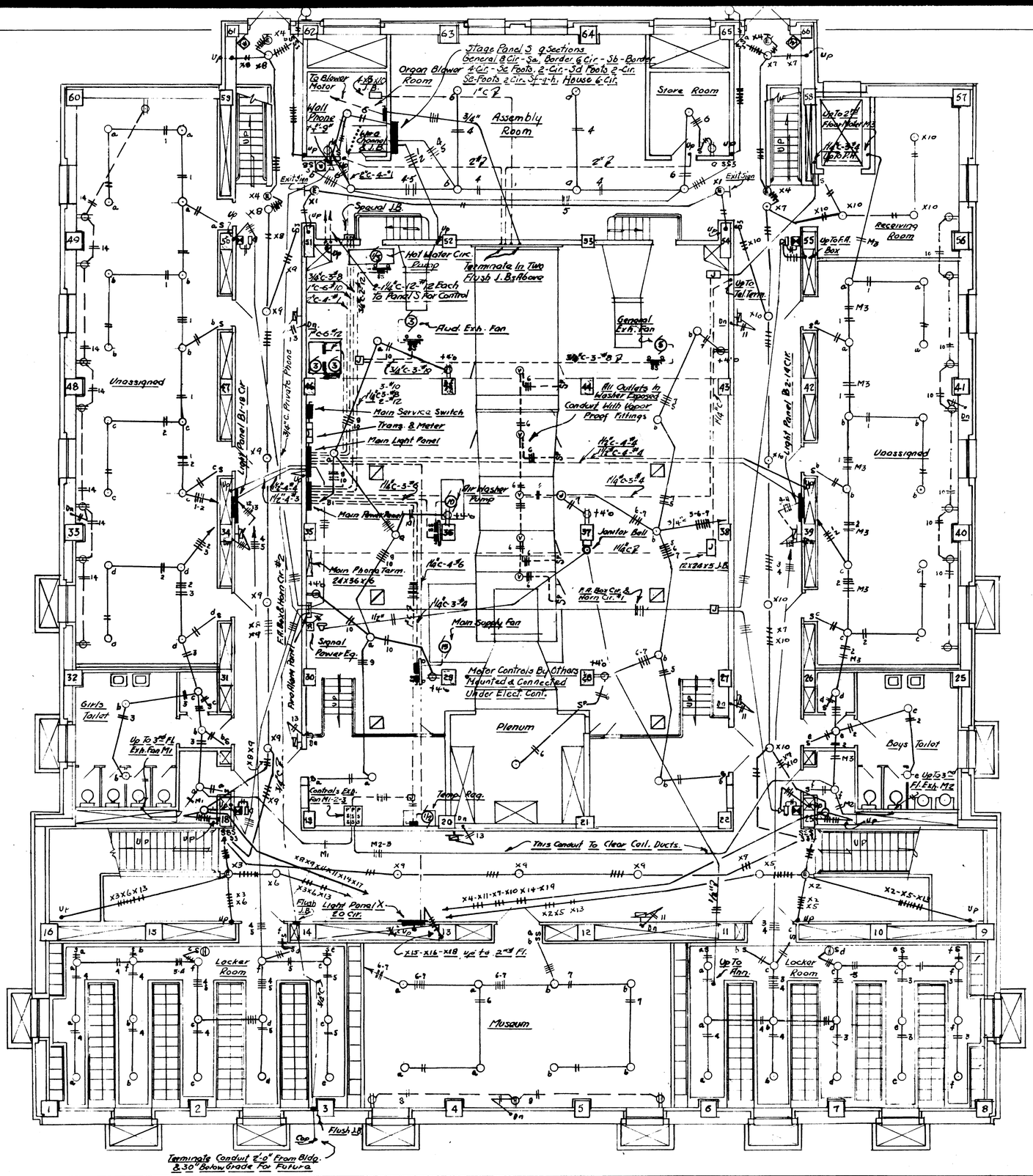
Riser Diagram

School of Music
for
Indiana University
Bloomington Indiana

Robert Frost Daggett Architect Indpls.
Charles K Ammerman Engineer Indpls.

THE SANBORN ELECTRIC CO.
CONTRACTING ENGINEERS
INDIANAPOLIS IND.

Job No. 5844 B	Sheet No. -2-	Scale 1/8" = 1'-0"
Dwn. by F.H.S.	Tcd. by F.B.S.	Date 1-1-36
Aprd. by		
Revised		
Revised		
Revised		



Basement Floor Plan

STANDARD SYMBOLS FOR WIRING PLANS

As Adopted by the Association of Electragists, International, and the American Engineering Standards Committee, March 6, 1924.

	Box	Cover
Ceiling Outlet ⅜ Stud	54151	
Ceiling Lamp Receptacle	54151	
Ceiling Outlet for [redacted] Exit ⅜ Stud	54151	
Ceiling Fan Outlet		
Pull Switch		
Drop Cord		
Wall Bracket [redacted] Height	54151	
Wall Lamp Receptacle Height		
Wall Outlet for [redacted] Exit Height Over Door	54151	
Wall Fan Outlet Height		
Simplex Convenience Outlet Height		
Duplex Convenience Outlet Height +1'-0"	52151	52C13
	54151	
Junction Box	52151	52C13
Special Purpose Outlet	72171	72C18
Exit Light Exit Sign 4" Deep	52151	
Floor Outlet		
Local Switch, Single Pole Height +4'-3"	52151	52C13
Local Switch, Three Way Height " "	" "	" "
Local Switch, Four Way Height " "	" "	" "
Local Switch, Automatic Door Height " "	" "	" "
Local Switch, Momentary Contact Height		
Local Switch, Electrolier Height		
Local Switch, Push Height		
Switch and Pilot Light +4'-3"	52151	52C17
Remote Control Push Button Switch Height	Special	
Corridor Cleaning Recept. 20 A. +1'-0"	52151	52C13
Ceiling Recept.	54151	Recept. Cover
Vapor Proof Uniloft	Special	
Telephone Terminal		
Distributing Cabinet Height +6'-6"	To Top	
Meter Height		
Panel Height		
Transformer Height +7'-0"	52151	
Rectifier Phone 3 +6'-0"	52151	
Motor Control & Disconnect	Special	
Push Button		
Buzzer		
Bell Janitor Height +8'-0"	52151	
Annunciator		
Electric Telephone +4'-9"	Special	
Public Telephone Height		
Clock, Master Height		
Clock, Secondary Height		
Time Stamp		
Fire Alarm Gong Height +8'-6"	52151	52C13
Fire Alarm Station Height +4'-3"	52151	52C13
Watchman's Station Height +4'-3"	Special	
Watchman's Clock or Recorder		
Special Outlet for Signal System		
Fire Alarm Con. 3/4" – Wire #14 B.C.		
Private Phone Conduit 3/4" – Phone Cable		
Ann. System Conduit Sizes Noted		
Common #12 Returns #16		

Where heights are given they are measured from finished floor to center of outlet.

Single Pole Switch	¾
Switches 2 Gang	¾
Switches 3 Gang	¾
Indicating & Combination	¾
Switches 4 Gang	¾
Indicating & Combination	
Indicating & Combination	

Office Return Call 12 C. #14 Comm. #16 Return
Janitors Call 12 C. Wire #14

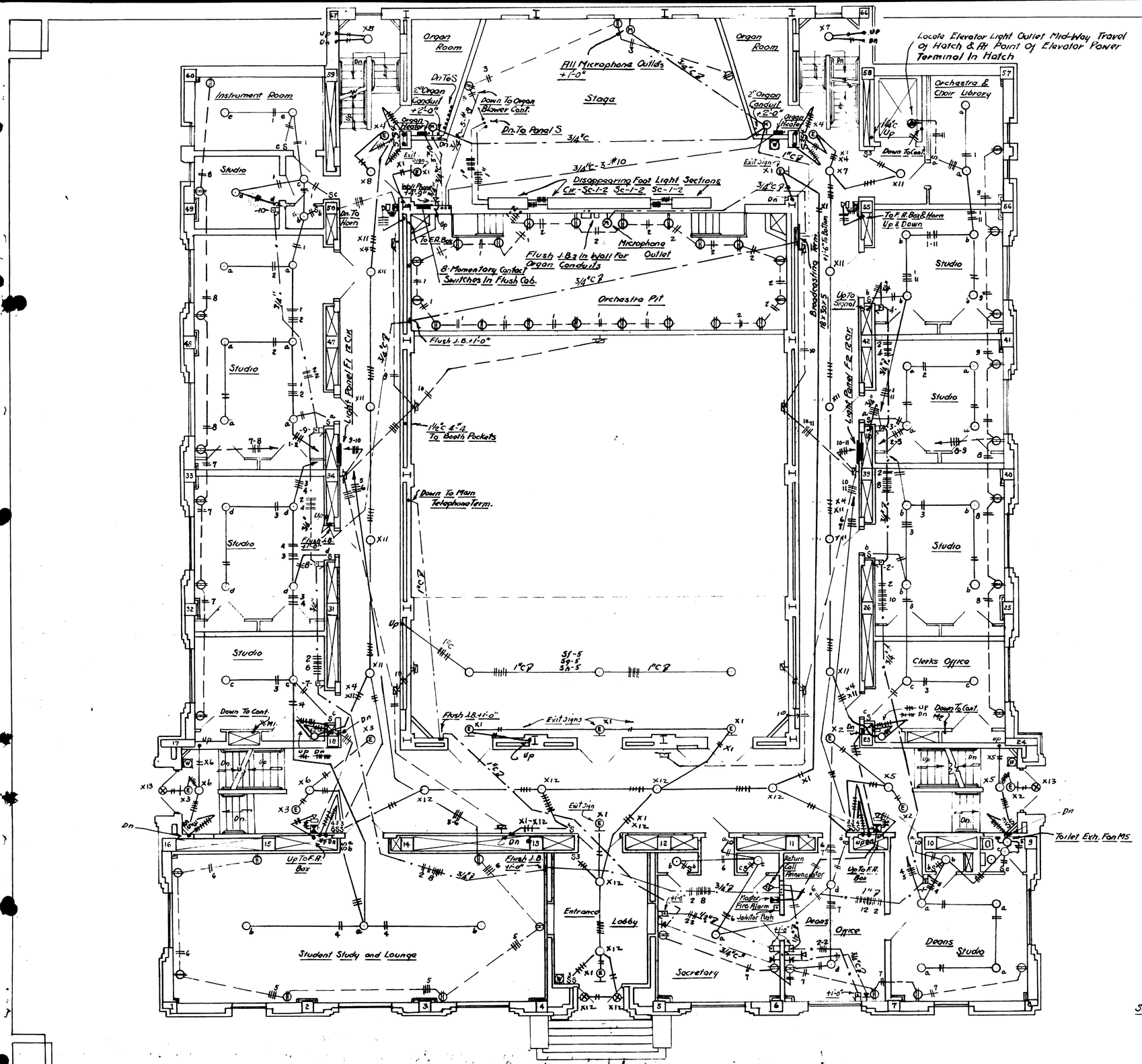
Note—All wires are #12 wire unless otherwise marked.

Special Note All Floors
All Rooms Thru Out The Entire B.dg. Will Be Sound Proofed & All Conduits Between Rooms Shall Be Run In Floor Slab & Terminate At Outlets On Each Side Of Partition. No Conduit Shall Be Run In Furred Ceiling Between Rooms.

School of Music
for
Indiana University
Bloomington Indiana
Robert Frost Daggett Architect Indpls.
Charles P. Zimmerman Engineer Indpls.

THE SANBORN ELECTRIC CO.
CONTRACTING ENGINEERS
INDIANAPOLIS, IND.

No. 5844 B	Sheet No. #3-	Scale ⅛" = 1'-0"
Drawn by F.H.S.	Traced by F.B.S.	Date 1-1-36
Approved S		
Revised		
Revised		
Revised		



See Special Note All Floors

First Floor Plan

First Floor Plan

Standard Symbols for Wiring Plans

As Adopted by the Association of Electragists, International, and the American Engineering Standards Committee, March 6, 1924.

			Box	Cover
	Ceiling Outlet ⅛ Stud		54151	
	Ceiling Lamp Receptacle			
	Ceiling Outlet for [redacted] Exit 3/8" Stud		54151	
	Ceiling Fan Outlet			
P.S.	Pull Switch			
	Drop Cord			
	Wall Bracket ⅛ Stud	Height	54151	
	Wall Lamp Receptacle	Height		
	Wall Outlet for [redacted] Exit	Height Over Door	54151	
	Wall Fan Outlet	Height		
	Slush Convenience Outlet	Height		
2	Double Convenience Outlet	Height +1'-0"	52151	52C13
	Junction Box		54181	58C13
	Special Purpose Outlet Elevator Lighting		78171	78C13
	Exit Light Exit Signs 4" Deep		52151	
	Floor Outlet			
S1	Local Switch, Single Pole	Height +4'-3"	52151	52C13
S2	Local Switch, Double Pole	Height " "	" "	" "
S3	Local Switch, 3-Way	Height " "	" "	" "
S4	Local Switch, 4-Way	Height " "	" "	" "
SD	Local Switch, Door	Height		
SE	Local Switch, Electrolier	Height		
SK	Pull Switch, Cord	Height		
SP	Switch and Pilot	Height		
SR	Remote Control Push Button Switch	Height	Special	
	Annunciator Signal +4'-3"		52151	52C14
	Corridor Cleaning Recpt. 20A. +1'-0"		52151	52C13
	Telephone Terminal +1'-6" Bottom			
	Distribution Cabinet	Height 6'-6" To Top		
	Motor Outlet	Height		
	Pull Box	Height		
	Transformer	Height		
	Motor Control	+5'-0"	52151	
	Push Button	Height +4'-3"	52151	52C13
	Buzzer	Height		
	Bell	Height		
	Annunciator	Height	Special	
	Interior Telephone	Height +4'-9	Special	
	Public Telephone	Height +1'-0"	52151	52C13
	Clock, Master	Height		
	Clock, Secondary	Height		
	Time Stamp	Height		
	Fire Alarm Gong	Height +8'-6"	52151	52C13
	Fire Alarm Station	Height +4'-3"	52151	52C13
	Watchman's Station	Height +4'-3"	Special	
	Watchman's Central Station Detector			
	Special Outlet for Signal System Fire Alarm +4'-3"		5215.	52C13
M	Microphone Outlet +1'-0"		52151	52C13
	Fire Alarm: Cond. 3/4" - Wire #14 A.B.C.			
	Private Phone Conduit 3/4" - Phone Cable			
	Annunciator System Conduit: Sizes Noted			
	Common #12 Returns #16			

Where heights are given measure from finished floor to center of outlet.

- Branch Circuit, Run Concealed Under Floor
- Branch Circuit, Run Concealed Under Floor, Above
- Branch Circuit, Run Exposed
- Signal Circuit, Run Concealed Under Floor
- Signal Circuit, Run Concealed Under Floor, Above
- Feeder, Run Concealed Under Floor
- Feeder, Run Concealed Under Floor, Above
- Feeder, Run Exposed
- || Indicates 2 Conductors in 3/4" Conduit
- ||| Indicates 3 Conductors in 3/4" Conduit
- |||| Indicates 4 Conductors in 3/4" Conduit, [redacted]
- ||||| Indicates 5 Conductors in 3/4" Conduit
- |||||| Indicates 6 Conductors in 1" Conduit, [redacted]
- ||||||| Indicates 7 Conductors in 1" Conduit
- |||||||| Indicates 8 Conductors in 1" Conduit

Office Return Call 1/2"C. #14 Common #16 Return
Janitors Call 1/2"C. - Wire #14

All conductors indicated are #12 wire unless otherwise marked.

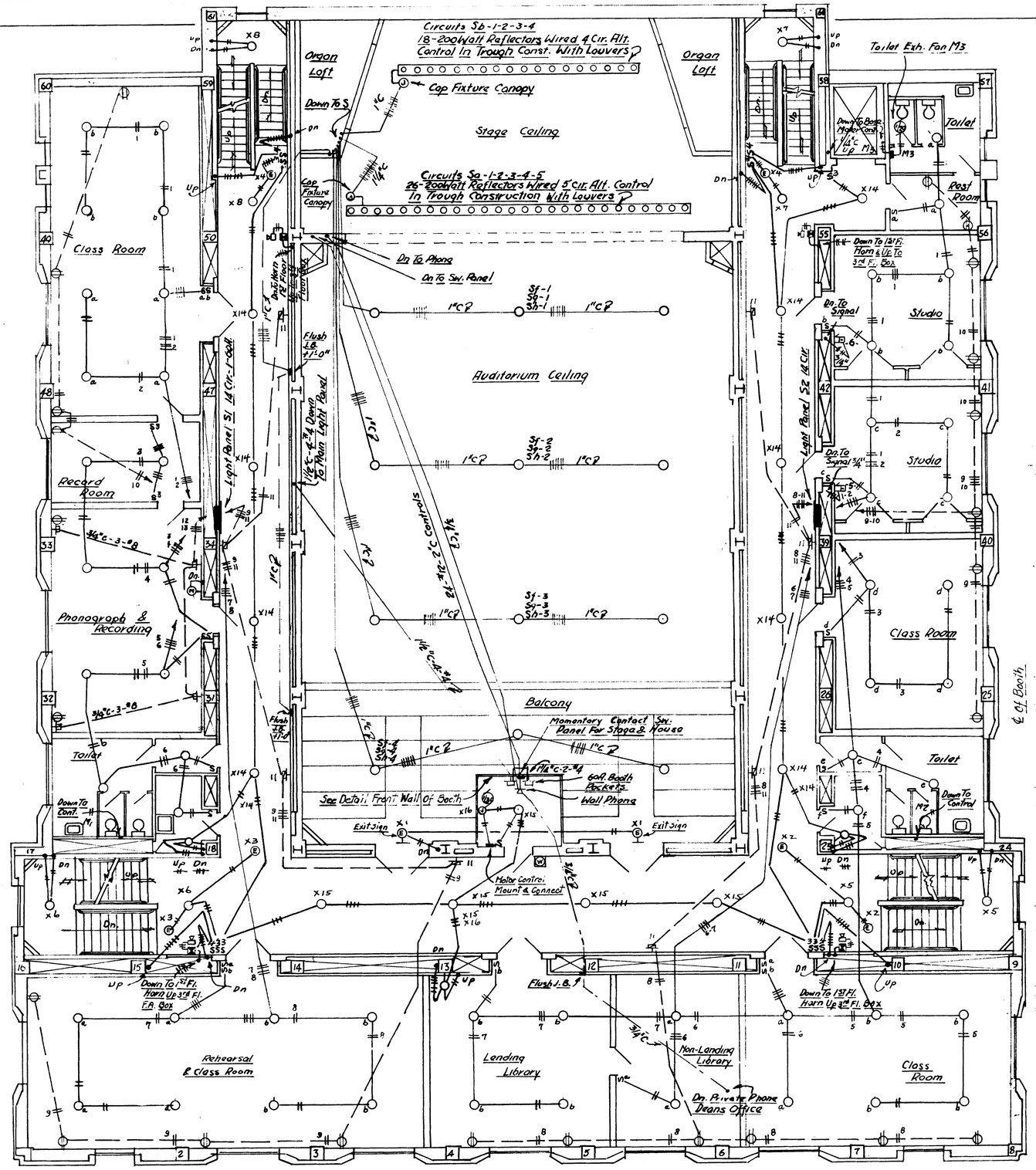
School of Music for Indiana University

Bloomington Indiana

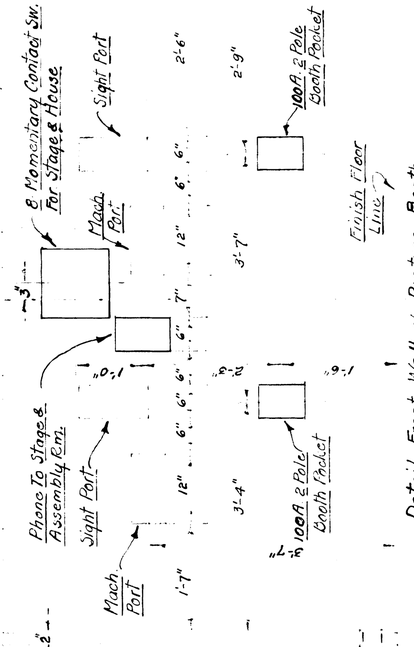
Robert Frost Daggett Architect Indpls.
Charles P. Zimmerman Engineer Indpls.

THE SANBORN ELECTRIC CO.
CONTRACTING ENGINEERS
INDIANAPOLIS, IND.

Job No. 5844B	Sheet No. -4-	Scale 1/8" = 1'-0"
Dwn. by J.H.S	Tcd. by F.B.S	Date 1-1-36
Apvd. by		
Revised		
Revised		
Revised		



Second Floor Plan



See Special Note All Floors

Second Floor Plan Booth Wall Detail

As Adopted by the Association of [illegible] National, and the American Engineering Standards Committee March 6, 1923.

		Box	Cover
◇	Ceiling Outlet ½ Stud	54151	
⊗	Ceiling Lamp Receptacle		
◈	Ceiling Outlet for [redacted] Exit 3/16" Stud	54151	
⊸	Ceiling Fan Outlet		
◆ P.S.	Full Switch		
⊜	Drop Cord		
◇	Wall Bracket ½ Stud Height	54151	
⊗	Wall Lamp Receptacle Height		
◈	Wall Outlet for [redacted] Exit Height Over Door	54151	
⊸	Wall Fan Outlet Height		
⊜	Clock Connection Outlet Height		
⊜	Combination Convenience Outlet Height +1'-0"	52151	52C13
C	Junction Box	54151	
C	Special Purpose Outlet	52151	52C13
⊗	Exit Light Exit Signs 4" Deep	72171	72C13
◈	Floor Outlet	52151	
S	Local Switch, Single Pole Height +4'-3"	52151	52C13
S2	Local Switch, Double Pole Height " "	" "	" "
S3	Local Switch, 3-Way Height " "	" "	" "
S4	Local Switch, 4-Way Height " "	" "	" "
S	Local Switch, Door Height		
S	Local Switch, Momentary Height		
S	Local Switch, Lock Height		
S	Switch and Pilot Height		
S	Remote Control Push Button Switch Height		
◈	Annunciator Signal +4'-3"	52161	52C14
⊸	Corridor Cleaning Recept. 20 A +1'-0"	52151	52C13
⊸	Special Recept. 30 A. +1'-0"	72171	72C18
	Distribution Cabinet Height 6'-6"	To Top	
◎	Motor Outlet Height		
	Fuse Height		
	Transformer Height		
▬	Motor Control +5'-0"	52151	
	Push Button Height		
	Buzzer Height		
	Bell Height		
	Annunciator Height		
	Interior Telephone Height See Detail	Special	
	Public Telephone Height		
	Clock, Master Height		
	Clock, Secondary Height		
	Time Stamp Height		
	Fire Alarm Coil Height +8'-6"	52151	52C13
	Fire Alarm Station Height +4'-3"	52151	52C13
	Watchman's Station Height +4'-3"	Special	
	Watchman's Central Station Detector		
	Special Outlet for Signal System		
M	Microphone Outlet +1'-0"	52151	52C13
	Fire Alarm Cond. ¾" – Wire #14 R.C.		
	Private Phone Conduit ¾" – Phone Cutlet		
	Ann. System Conduit Sizes Noted		
	Common #12 Returns #14		

Where heights are given measure from finished floor to center of outlet.

- Branch Circuit, Run Concealed Under Floor
- Branch Circuit, Run Concealed Under Floor, Above
- Branch Circuit, Run Exposed
- Signal Circuit, Run Concealed Under Floor
- Signal Circuit, Run Concealed Under Floor, Above
- Feeder, Run Concealed Under Floor
- Feeder, Run Concealed Under Floor, Above
- Feeder, Run Exposed
- Indicates 2 Conductors in ¾" Conduit
- Indicates 3 Conductors in ¾" Conduit
- Indicates 4 Conductors in ¾" Conduit
- Indicates 5 Conductors in ¾" Conduit
- Indicates 6 Conductors in 1" Conduit
- Indicates 7 Conductors in 1" Conduit
- Indicates 8 Conductors in 1" Conduit

Office Return Call ½"C #14 Common #16 Return
Janitors Call ½"C – Wire #14

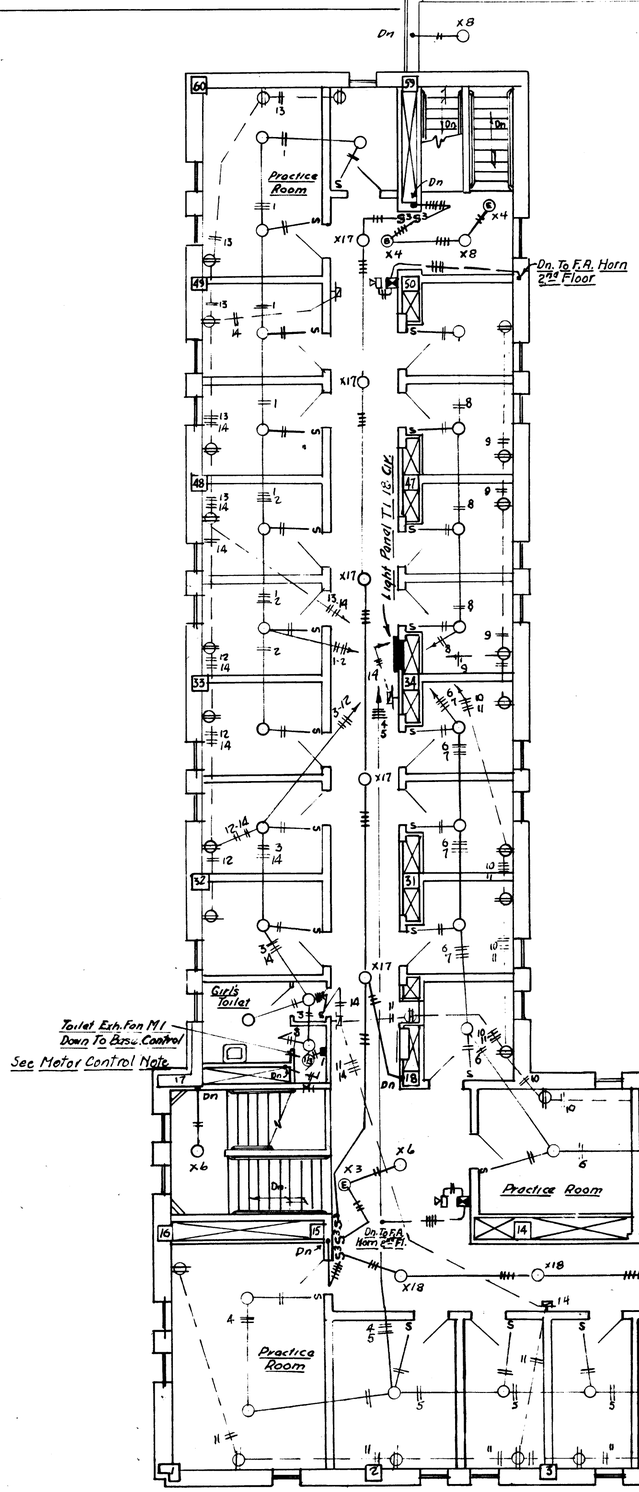
Note—All conductors indicated are #12 wire unless otherwise marked.

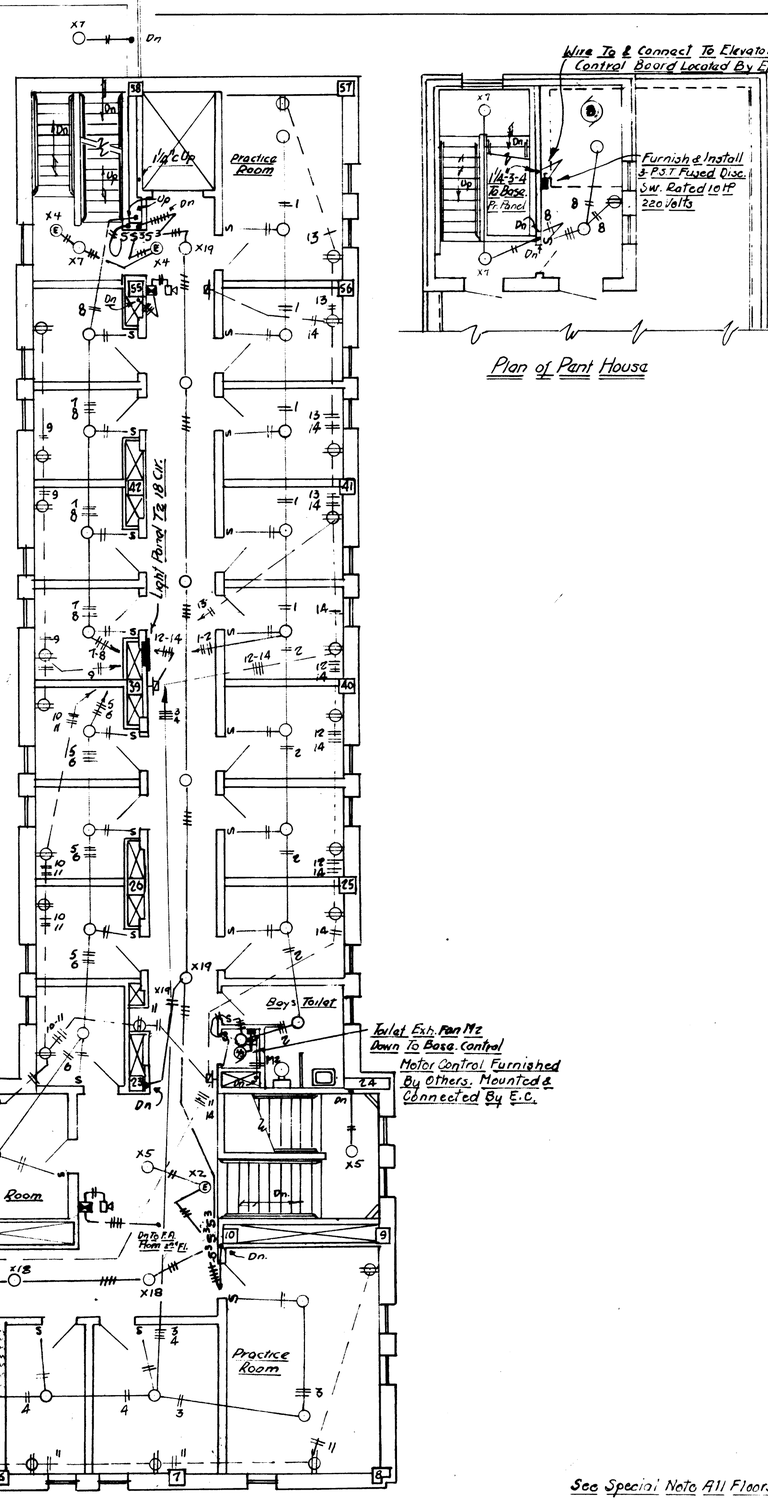
School of Music for Indiana University Bloomington Indiana

Robert Frost Daggett, Architect, Indpls. Charles R. Zimmerman, Engineer, Indpls.

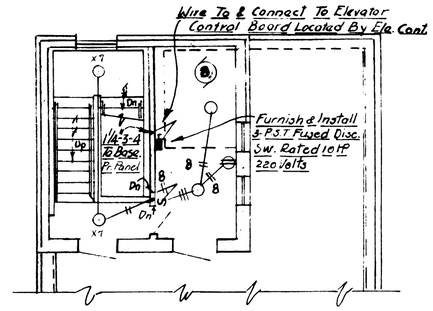
THE SANBORN ELECTRIC CO.
CONTRACTING ENGINEERS
INDIANAPOLIS, IND.

Job No. 5844 B	Sheet No. -5-	Scale 1/8" = 1'-0"
Dwn. by F.H.S	Tcd. by F.D.J	Date 1-1-36
Apvd. by		
Revised		
Revised		
Revised		





Third Floor Plan



Plan of Pent House

See Special Note All Floors

Third Floor Plan

As Adopted by the Association of Electragists, International, and the American Engineering Standards Committee, March 6, 1924.

			Box	Cover
◇	Ceiling Outlet ⅛ Stud		54151	
◇W	Ceiling Lamp Receptacle			
◇	Ceiling Outlet for [redacted] Exit ⅜" Stud		54151	
∞	Ceiling Fan Outlet			
◆P.C.	Pull Switch			
◎	Drop Cord			
◇	Wall Bracket ⅛ Stud	Height	54151	
◇W	Wall Lamp Receptacle	Height		
◇	Wall Outlet for [redacted] Exit	Height Over Door	54151	
◇	Wall Use Outlet	Height		
◇	Clock Convenience Outlet	Height		
◇	Double Convenience Outlet	Height +1'-0"	52151	52C13
◇	Junction Box		54131	
◇	Special Purpose Outlet		52151 72171	52C13 72C13
◇	Floor Outlet			
◇	Fiber Outlet			
S	Local Switch, Single Pole	Height +4'-3"	52151	52C13
S	Local Switch, Double Pole	Height " "	" "	" "
S	Local Switch, Three Way	Height " "	" "	" "
S	Local Switch, 4 Way	Height " "	" "	" "
S	Local Switch, Door	Height		
S	Local Switch, Electrolier	Height		
S	Local Switch, Low Voltage	Height		
S	Switch and Pilot	Height		
S	Remote Control Push Button Switch	Height		
◇	Corridor Cleaning Recpt. 20A. +1'-0"		52151	52C13
	Distribution Cabinet	Height 6'-6"	To Top	
◎	Meter Outlet	Height		
	Pull Box	Height		
	Auto Transformer	Height		
	Motor Control	+5'-0"	52151	
⊡	Push Button	Height		
	Buzzer	Height		
	Bell	Height		
	Annunciator	Height		
	Interior Telephone	Height		
	Public Telephone	Height		
	Clock, Master	Height		
	Clock, Secondary	Height		
	Time Stamp	Height		
	Fire Alarm Gong	Height +8'-6"	52151	52C13
	Fire Alarm Station	Height +4'-3"	52151	52C13
	Watchman's Station	Height		
	Watchman's Central Station Detector			
	Special Outlet for Signal System			

Fire Alarm Cond. ¾" - Wire #14 R.C.
Private Phone Conduit ¾" - Phone Cable
Ann. System Conduit Sizes Noted
Common #12 Returns #16

Where heights are given measure from finished floor to center of outlet.

- Branch Circuit, Run Concealed Under Floor
- Branch Circuit, Run Concealed Under Floor, Above
- Branch Circuit, Run Exposed
- Signal Circuit, Run Concealed Under Floor
- Signal Circuit, Run Concealed Under Floor, Above
- Feeder, Run Concealed Under Floor
- Feeder, Run Concealed Under Floor, Above
- Feeder, Run Exposed

Indicates 2 Conductors in ¾" Conduit
Indicates 3 Conductors in ¾" Conduit
Indicates 4 Conductors in ¾" Conduit, [redacted]
Indicates 5 Conductors in ¾" Conduit
Indicates 6 Conductors in 1" Conduit, [redacted]
Indicates 7 Conductors in 1" Conduit
Indicates 8 Conductors in 1" Conduit

Office Return Call 4#'s #14 Common #16 Return
Janitors Call 1/2"C - Wire #14

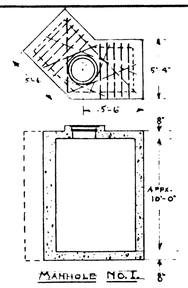
All conductors indicated are #12 wire unless otherwise marked.

School of Music
for
Indiana University
Bloomington Indiana

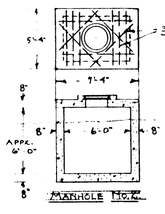
Robert Frost Daggett, Architect, Indpls.
Charles P. Ammathson, Engineer, Indpls.

THE SANBORN ELECTRIC CO.
CONTRACTING ENGINEERS
INDIANAPOLIS, IND.

Job No. 5844 B	Sheet No. - 6 -	Scale 1/8"=1'-0"
Dwn. by F.H.S.	Tcd. by F.B.S	Date 1-1-36
Aprvd. by		
Revised		
Revised		
Revised		

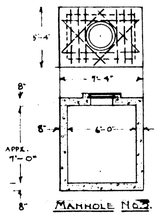


MANHOLE NO. I.

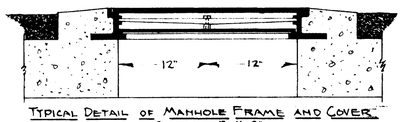


MANHOLE No. II.

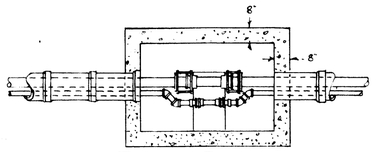
DETAILS OF UNDERGROUND LINES



MANHOLE No. III.

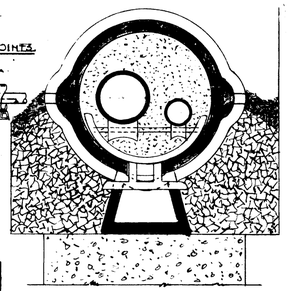


TYPICAL DETAIL OF MANHOLE FRAME AND COVER
SCALE - Full 1'-0"



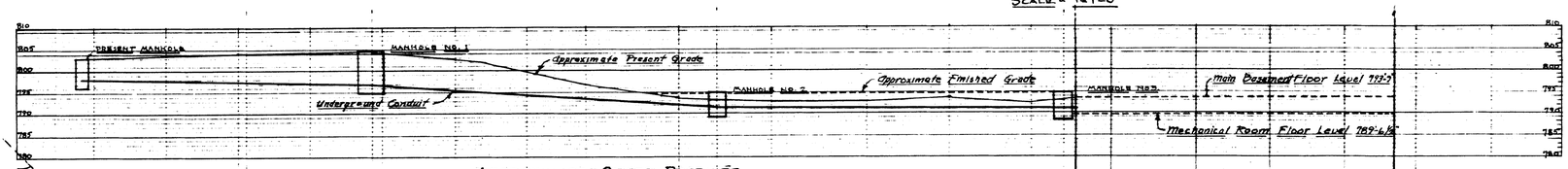
TYPICAL DETAILS OF MANHOLES AND EXPANSION JOINTS.

SCALE - 1/4"=1'-0"



TYPICAIL DETAILS OF UNDERGROUND CONDUIT

SCALE - 1½" = 1'-0"



APPROXIMATE GRADE PROFILE

HORIZONTAL SCALE = 1" = 30'-0"
VERTICAL SCALE = 1" = 20'-0"

PRESENT 5" STEAM AND 2" RETURN

PRESENT MANHOLE

PRESENT STEAM AND RETURN TO MEMORIAL RESIDENCE HALL

Approx. Location Present Trans. Station 92

Terminate At New Switch Gear

See Spec. For Protection Of Power Service

New Secondary Circuit 4-3C-4-1/0 500M-C.M. each W.P. Cables

NEW 4" MEDIUM PRESSURE STEAM LINE AND NEW 12" PUMPED RETURN LINE IN UNDERGROUND CONDUIT

ANCHOR & SNGL. SLIP EXP. JOINT

NEW MANHOLES

Present Man Hole

No. 1

No. 2

ANCHOR AND DOUBLE SLIP EXP. JOINT.

No. 3 ANCHOR

Cable Splice Box See Tel. Co. For Size

2"C. Public Telephone Duct.

200'-0"

Bell Tel. Service.

Power & Light Service Conduit See Basement Plan

Connect to Present Sewer Appx. 200'-0" From This Point

8" V.T.

8" C.I.

10" V.T.

Open End.

Appx. 50'-0"

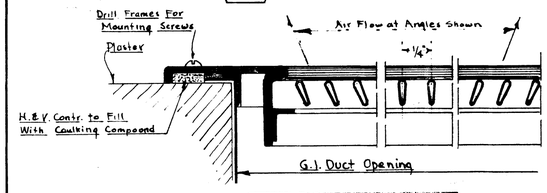
MEMORIAL RESIDENCE HALL

Approx. Right of Way See Engineer Before Installing

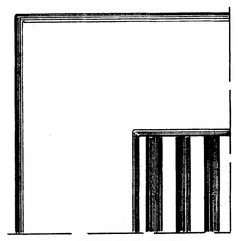
Approx. Location New Telephone Termina

SCHOOL OF MUSIC

SCALE - 1" = 30'-0"



SECTION THRU DIFFUSER



DETAIL OF DIFFUSER CONSTRUCTION

INDIANA DOCKET NO. In-2. 1067

FEDERAL EMERGENCY ADMINISTRATION OF PUBLIC WORKS

Complete Specifications and Plans Sheets 1 to 8 inclusive Approved by

Engineer Examiner

Date 11/14/35

Approved H.N. Fogarty

Acting State Director, P.W.A.

Date

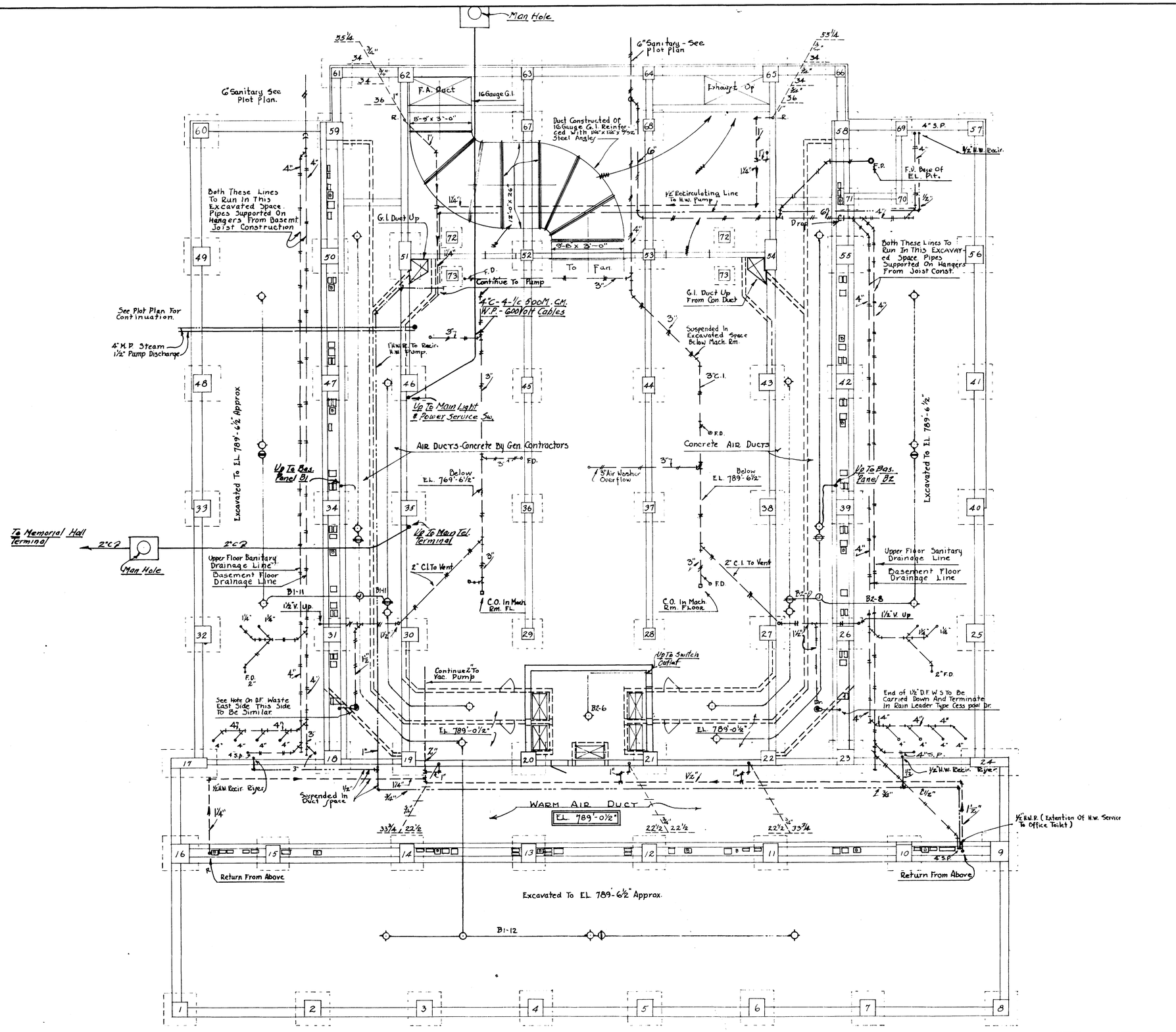
PLOT PLAN

SCHOOL OF MUSIC FOR INDIANA UNIVERSITY BLOOMINGTON INDIANA

ROBERT FROST DAGGETT ~ ARCHITECT ELECTRIC BUILDING INDIANAPOLIS, IND.

CHARLES R AMMERMAN ~ CONSULTING ENGR. CENTURY BUILDING INDIANAPOLIS, IND.

PROJECT 235	DATE Nov. 7, 1935	SHEET No. 1
	DRAWN BY C.R.A. TRCD. BY C.R.A.	OF 8 SHEETS



FOUNDATION PLAN

Scale 1/8" = 1'-0"

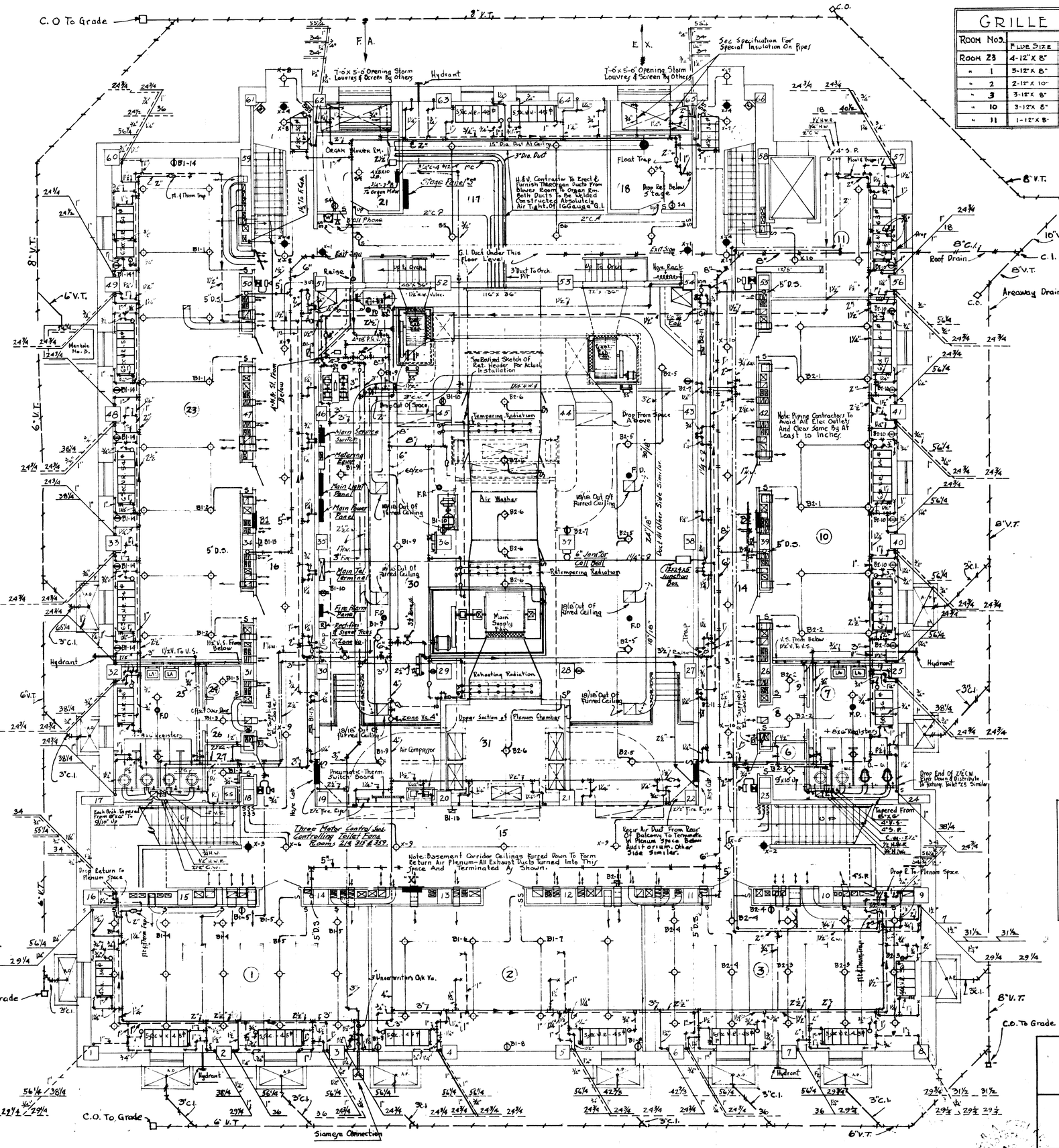
SCHOOL OF MUSIC
FOR
INDIANA UNIVERSITY
BLOOMINGTON INDIANA

ROBERT FROST DAGGETT ~ ARCHITECT
ELECTRIC BUILDING INDIANAPOLIS, IND.
CHARLES R. AMMERMAN ~ CONSULTING ENGR.
CENTURY BUILDING INDIANAPOLIS, IND.

PROJECT	DATE Nov. 7, 1935	Sheet No. 2
235	DRWN. BY ____ TRCD. BY ____	Of 8 Sheets

GRILLE SCHEDULE & DEFLECTION ANGLES

ROOM NOS.	SUPPLY SYSTEM				EXHAUST		
	FLUE SIZE	DUCT OPENING	DAM POSITION	DEFLECTION	FLUE SIZE	DUCT OPENING	DEFLECTION
ROOM 23	4-12"X 8"	4-12"X 12	VERTICAL		4-10"X 8"	4-10"X 12"	STRAIGHT
" 1	3-12"X 8"	3-12"X 12"	"		1-12"X 16"	1-12"X 24"	"
" 2	2-12"X 10"	2-12"X 16"	"		2-12"X 8"	2-12"X 12"	"
" 3	3-12"X 8"	3-12"X 12"	"		1-16"X 12"	1-16"X 16"	"
" 10	3-12"X 8"	3-12"X 12"	"		3-10"X 8"	3-10"X 12"	"
" 11	1-12"X 8"	1-12"X 12"	"				"



BASEMENT PLAN

Scale 1/8"=1'-0"

SCHEDULE OF SYMBOLS

STEAM MAINS
VACUUM RETURNS
COLD WATER - C.W.
HOT WATER - H.W.
HOT WATER RECIR.
FIRE LINES
SOIL & WASTES SUSPENDED
SOIL & WASTES BURIED
+ INDICATES GATE VALVES: D.S. INDICATES DOWN SPOUT
F.D. INDICATES FLOOR DRAIN: V.S. INDICATES VENT STACKS

SCHOOL OF MUSIC
FOR
INDIANA UNIVERSITY
BLOOMINGTON INDIANA

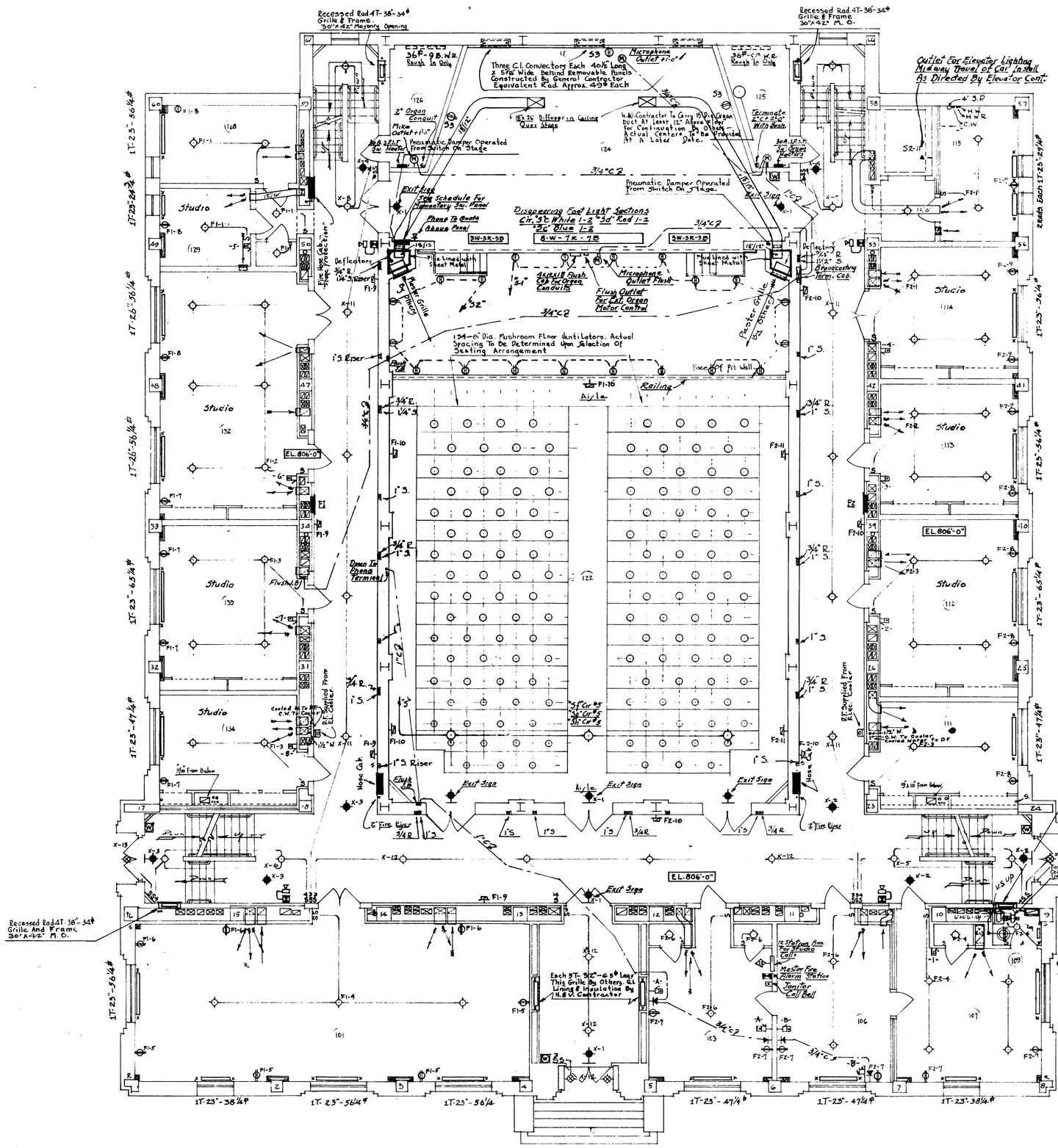
ROBERT FROST DAGGETT ~ ARCHITECT
ELECTRIC BUILDING INDIANAPOLIS, IND.
CHARLES R. AMMERMAN ~ CONSULTING ENGR.
CENTURY BUILDING INDIANAPOLIS, IND.

PROJECT 235

DATE Nov. 7, 1935

DRWN. BY ____ TRCD. BY ____

Sheet No. 3 Of 8 Sheets.



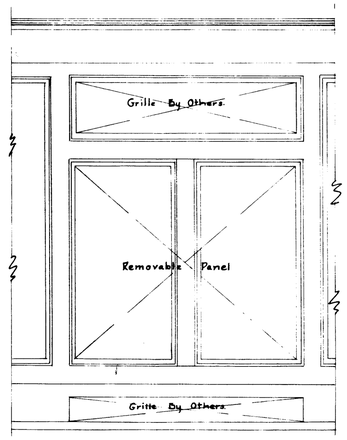
FIRST FLOOR PLAN

SCALE ⅛"-1'-0"

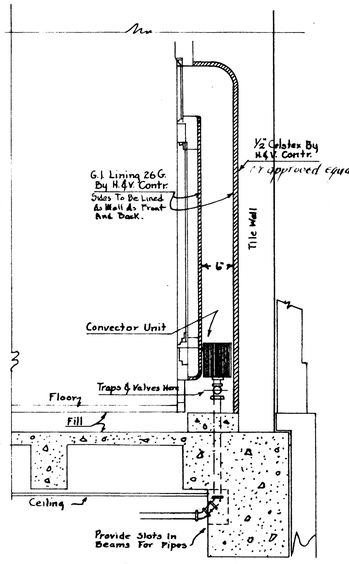
GRILLE SCHEDULE & DEFLECTION ANGLES

ROOM NOS.	SUPPLY SYSTEM				EXHAUST		
	FLUE SIZE	DUCT OPENING	BAR POSITIONS	DEFLECTION	FLUE SIZE	DUCT OPENING	DEFLECTION
ROOM 101	2-16"X10"	2-16"X20"	VERTICAL	2 WAY-22½L-22½R EACH	2-14"X10"	2-14"X 18"	STRAIGHT
" 103	12"X12"	12"X24"	"	2WAY-22½L - 0°	12"X12"	12"X18"	"
" 106	12"X12"	12"X24"	"	2WAY-22½R - 0°	8"X8"	8"X16"	"
" 107	14"X14"	14"X28"	"	2 WAY-22½R - 22½L	14"X14"	14"X20"	"
" 111	12"X10"	12"X20"	"	2 WAY-22½R - 0°	12"X10"	12"X16"	"
" 112	12"X14"	12"X24"	"	2 WAY-22½R - 0°	12"X14"	12"X18"	"
" 113	12"X12"	12"X24"	"	2 WAY-22½R- 0°	12"X12"	12"X18"	"
" 114	12"X12"	12"X24"	"	2 WAY- 22½R- 0°	12"X12"	12"X18"	"
" 115	12"X8"	12"X10"	"	2 WAY- 22½L - 0°	12"X8"	12"X8"	"
" 128	12"X8"	12"X12"	"	STRAIGHT	12"X8"	12"X8"	"
" 132	1-8"X12 1-12"X12	1-8"X16" 1-12"X24"	"	2WAY- 22½R-22½L 2WAY-22½R - 0°	12"X14"	12"X20"	"
" 129	12"X6"	12"X 6"	"	2WAY-22½L- 0°	12"X5"	12"X6"	"
" 133	12"X14"	12"X24"	"	2 WAY-22½R-0°	12"X14"	12"X18"	"
" 134	12" X 10"	12"X20"	"	2 WAY- 22½L- 0°	12"X10"	12"X16"	"
" 124	2-18 X 12	2-18"X26"	18" DIMENSION	3 WAY-22½-0°-22½	4-TIN CEILING OVER STAGE		

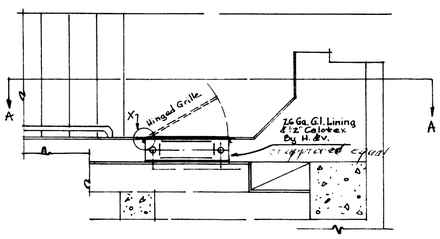
Note G.I. Duct Openings As Listed Above Determine Grille Sizes Dimensions Are Given By Width, First By Height Viz. 12"x10" Indicates 12" Wide By 10" High.



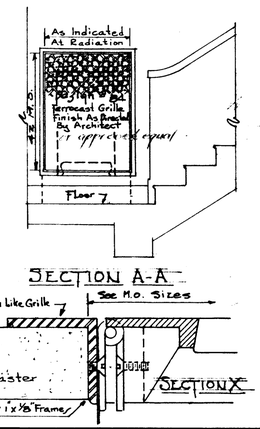
DETAIL CONCEALED CONVECTORS REAR OF STAGE
Scale ¾"-1'-0"



SECTION



RADIATOR RECESS & GRILLES
This Detail Shows General Conditions At Stair Landing & Entry Radiator. All Grilles With Exception Of South Entry Will Be Furnished By H&V Contractor



SECTION A-A

SCHOOL OF MUSIC
FOR
INDIANA UNIVERSITY
BLOOMINGTON INDIANA

ROBERT FROST DAGGETT ~ ARCHITECT
ELECTRIC BUILDING INDIANAPOLIS, IND

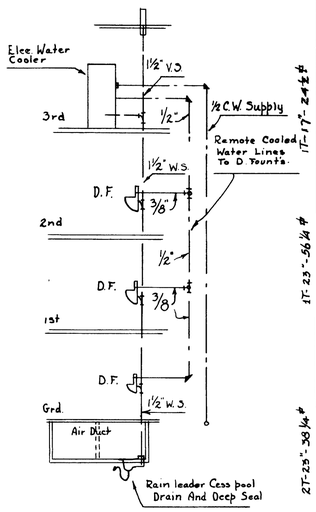
CHARLES R. AMMERMAN ~ CONSULTING ENGR.
CENTURY BUILDING INDIANAPOLIS, IND.

PROJECT 235 | DATE Nov. 7, 1935 | DRWN BY ___ TRCD BY ___ | SHEET NO. 4 OF 8 SHEETS

GRILLE SCHEDULE & DEFLECTION ANGLES

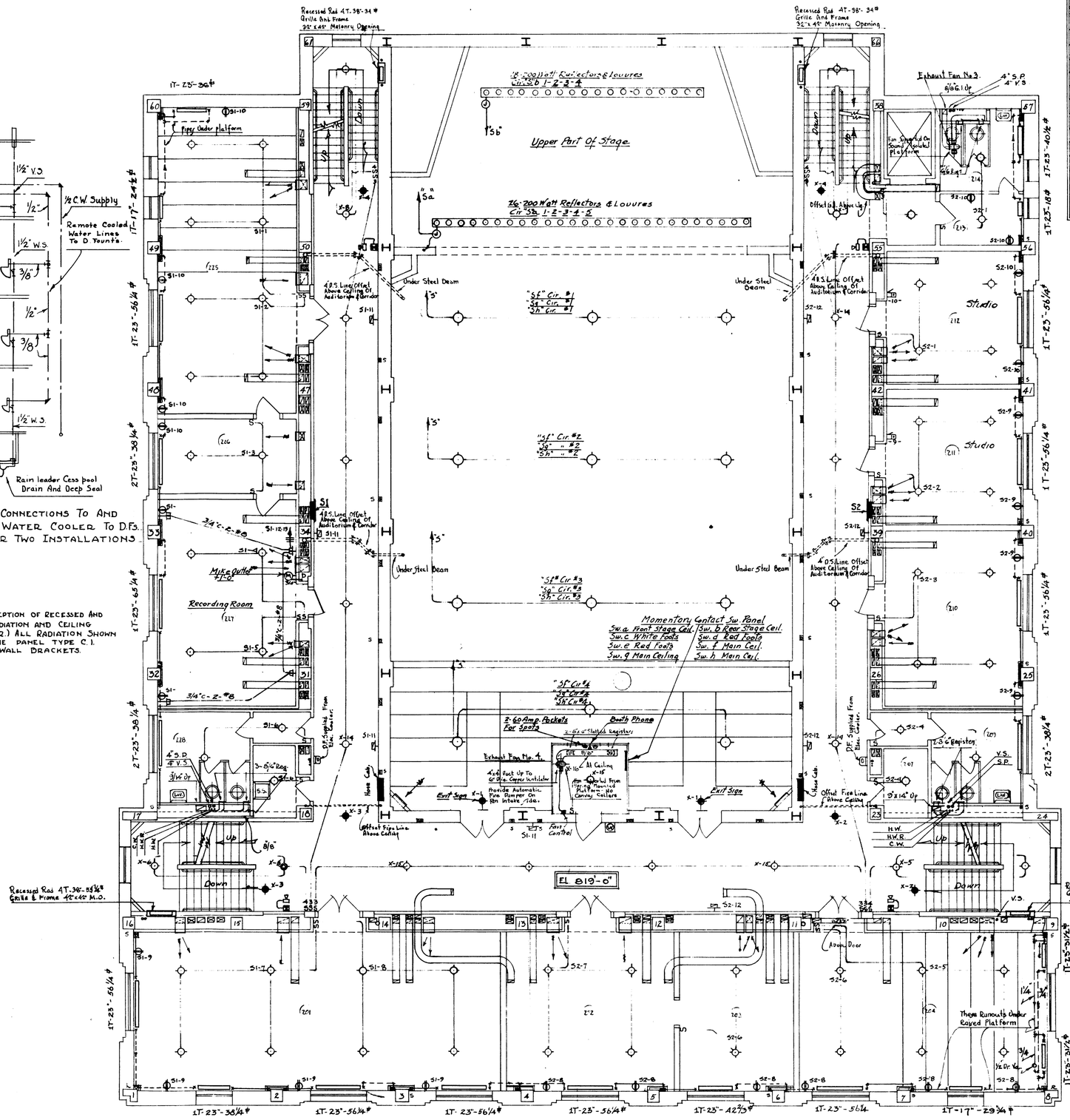
Room No.	Supply System Flue Size	Duct Open'g	Bar Positions	Deflection Angles	Exhaust Flue Size	G.I. Duct Open'g	Deflection
201	2-16"X10"	2-16"X16"	VERTICAL	2WAY-22½°R-0° 2WAY-22½°L-0°	18"X10"	18"X16"	STRAIGHT
202	18"X10"	18"X18"	"	2WAY-22½°L-0°	18"X10"	18"X12"	"
203	12"X12"	12"X24"	"	2WAY-22½°L-22½°R	12"X12"	12"X16"	"
204	24"X10"	24"X20"	"	3WAY-45°R-22½°R-0°	18"X10"	18"X16"	"
210	12"X14"	12"X24"	"	2WAY-22½°R-22½°L	12"X24"	12"X18"	"
211	12"X12"	12"X24"	"	2WAY-22½°L-0°	12"X12"	12"X16"	"
212	12"X12"	12"X24"	"	2WAY-22½°L-0°	12"X12"	12"X16"	"
225	2-14"X12"	2-14"X16"	"	2WAY-22½°L-0° 2WAY-22½°R-0°	18"X12"	18"X16"	"
226	18"X8"	12"X12"	"	STRAIGHT	12"X8"	12"X10"	"
227	2-8"X14"	2-8"X18"	"	2WAY-22½°R-0° 2WAY-22½°L-0°	12"X14"	12"X16"	"
222				2 Grilles	△	24"X18"	"

All Bar Positions To Be Vertical



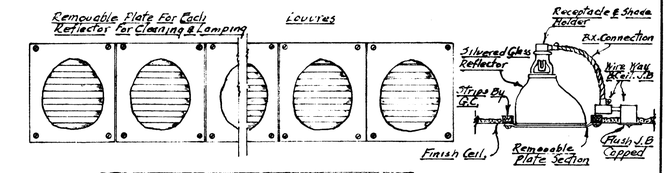
DETAIL OF CONNECTIONS TO AND FROM ELEC WATER COOLER TO D.F.S. TYPICAL FOR TWO INSTALLATIONS

NOTE: WITH EXCEPTION OF RECESSED AND CONCEALED RADIATION AND CEILING RADIATION (W.R.) ALL RADIATION SHOWN IS TO BE THE PANEL TYPE C.I. SUPPORT ON WALL BRACKETS.



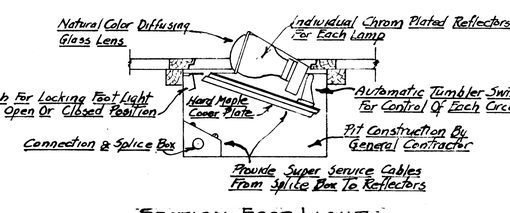
SECOND FLOOR PLAN

Scale ⅛"=1'-0"

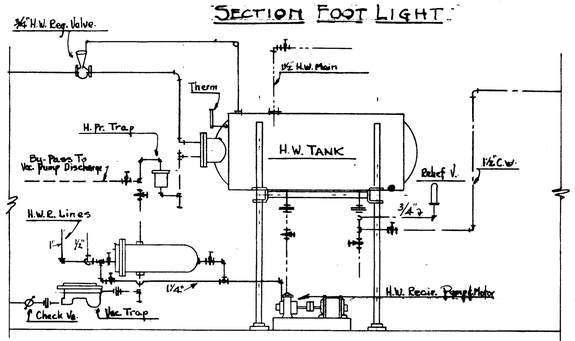


PLAN OF STAGE CEIL. LIGHTING

SECTION.



SECTION FOOT LIGHT



DETAIL OF CONNECTIONS TO HOT WATER HEATER

SCHOOL OF MUSIC FOR INDIANA UNIVERSITY
BLOOMINGTON INDIANA

ROBERT FROST DAGGETT ~ ARCHITECT
ELECTRIC BUILDING INDIANAPOLIS, IND.

CHARLES R. AMMERMAN ~ CONSULTING ENGR
CENTURY BUILDING INDIANAPOLIS, IND.

PROJECT 235

DATE Nov. 7, 1935

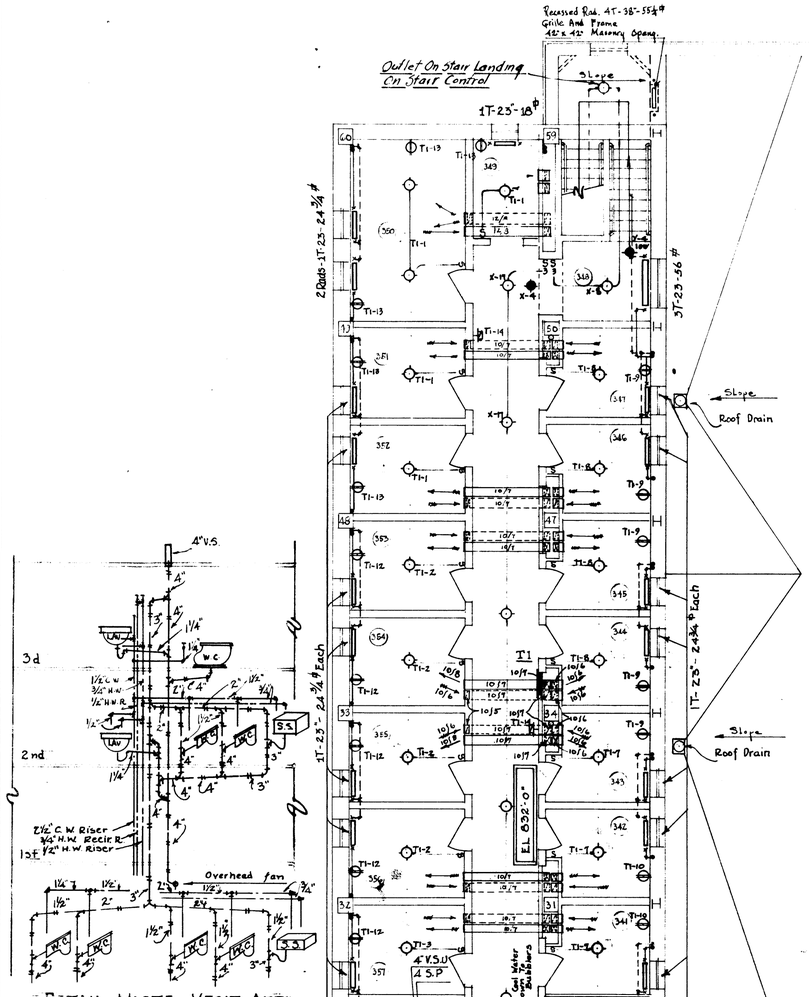
DRWN By ____ TRCD By ____

Sheet No. 5 Of 8 Sheets

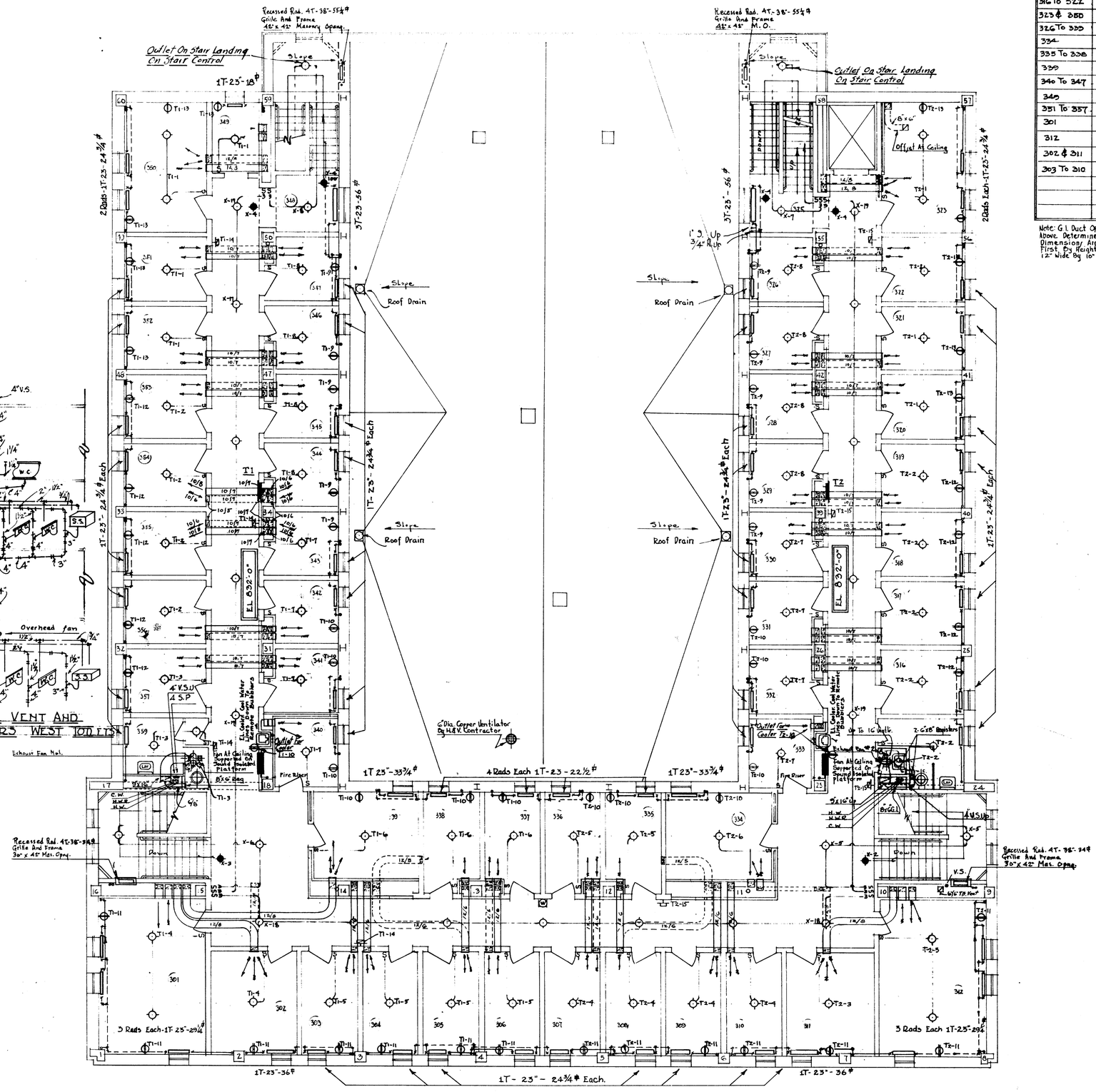
GRILLE SCHEDULE & DEFLECTION ANGLES

Room Nos.	SUPPLY SYSTEM				EXHAUST		
	Flue Size	Duct Opng.	Bar Position	Deflection	Flue Size	G.I. Duct Opng.	Deflection
316 To 322	10"x 7"	10"x 8"	VERTICAL	STRAIGHT	10"x 7"	10"x 8"	VERT - No DEFLEC
323 & 280	12"x 8"	12"x 10"	"	2 WAY - 22½° R - 22½° L	12"x 8"	12"x 8"	"
326 To 329	10"x 6"	10"x 6"	"	STRAIGHT	10"x 6"	10"x 6"	"
330	12"x 8"	12"x 10"	"	2 WAY - 22½° L - 0°	12"x 8"	12"x 8"	"
335 To 338	12"x 5"	12"x 6"	"	STRAIGHT	12"x 6"	12"x 6"	"
339	12"x 8"	12"x 10"	"	2 WAY - 22½° R - 0°	12"x 8"	12"x 8"	"
340 To 347	10"x 6"	10"x 6"	"	STRAIGHT	10"x 6"	10"x 6"	"
349	12"x 8"	12"x 10"	"	2 WAY - 22½° R - 22½° L	12"x 8"	12"x 8"	"
351 To 357	10"x 7"	10"x 8"	"	STRAIGHT	10"x 7"	10"x 8"	"
301	12"x 10"	12"x 18"	"	STRAIGHT	12"x 10"	12"x 14"	"
312	12"x 10"	12"x 18"	"	2 WAY - 22½° L - 0°	12"x 10"	12"x 14"	"
302 & 311	12"x 8"	12"x 10"	"	2 WAY - 22½° L - 22½° R	12"x 8"	12"x 8"	"
303 To 310	12"x 6"	12"x 6"	"	STRAIGHT	12"x 6"	12"x 6"	"

Note: G.I. Duct Openings As Listed Above Determine Grille Sizes. Dimensions Are Set Down Widthy First By Heights 12"x 10" Indicates 12" Wide By 10" High.



DETAIL WASTE VENT AND WATER RISERS WEST TOILETS



THIRD FLOOR PLAN

Scale ⅛"=1'-0"

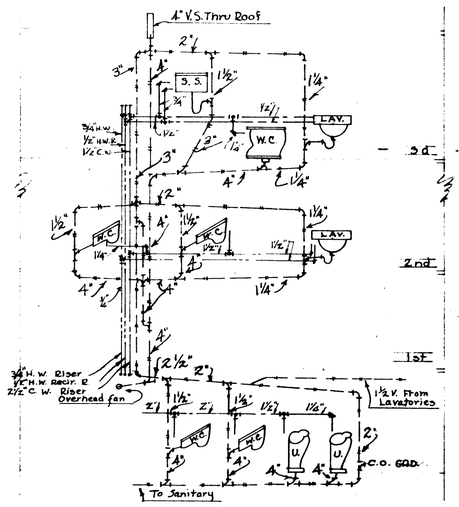
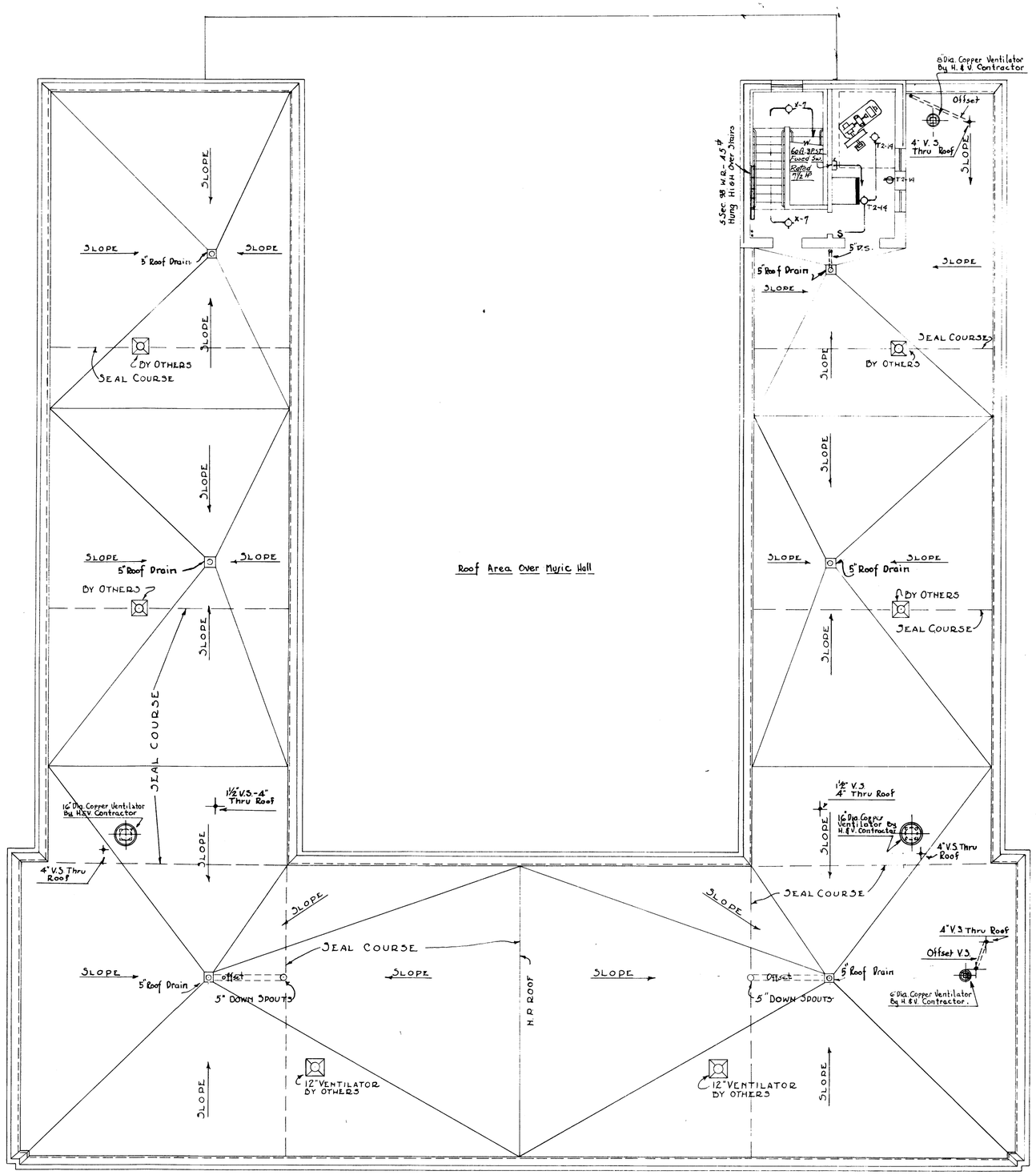


DIAGRAM WASTE-VENT AND WATER RISERS TO EAST TOILET BATTERIES

SCHOOL OF MUSIC FOR INDIANA UNIVERSITY
BLOOMINGTON INDIANA

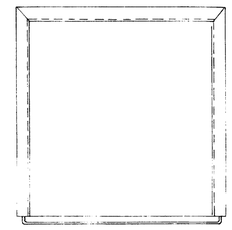
ROBERT FROST DAGGETT ~ ARCHITECT
ELECTRIC BUILDING INDIANAPOLIS, IND.
CHARLES R. AMMERMAN ~ CONSULTING ENGR.
CENTURY BUILDING INDIANAPOLIS, IND.

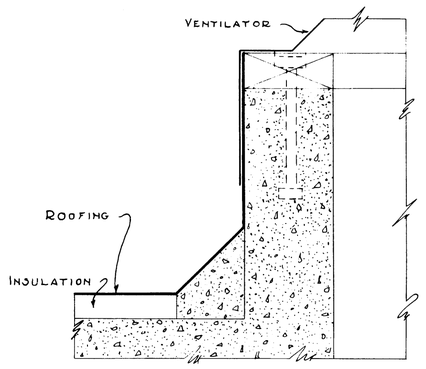
PROJECT	DATE Nov. 7, 1935	Sheet No. 6
235	DRWN. BY ___ TRCD BY ___	Of 8 Sheets



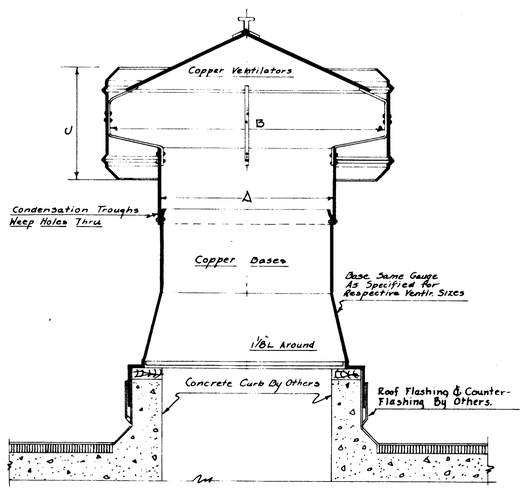
Roof Area Over Music Hall

ROOF & PENT HOUSE FLOOR PLAN
SCALE 1/8" = 1'-0"





SECTION THRU CURB FOR VENTILATORS



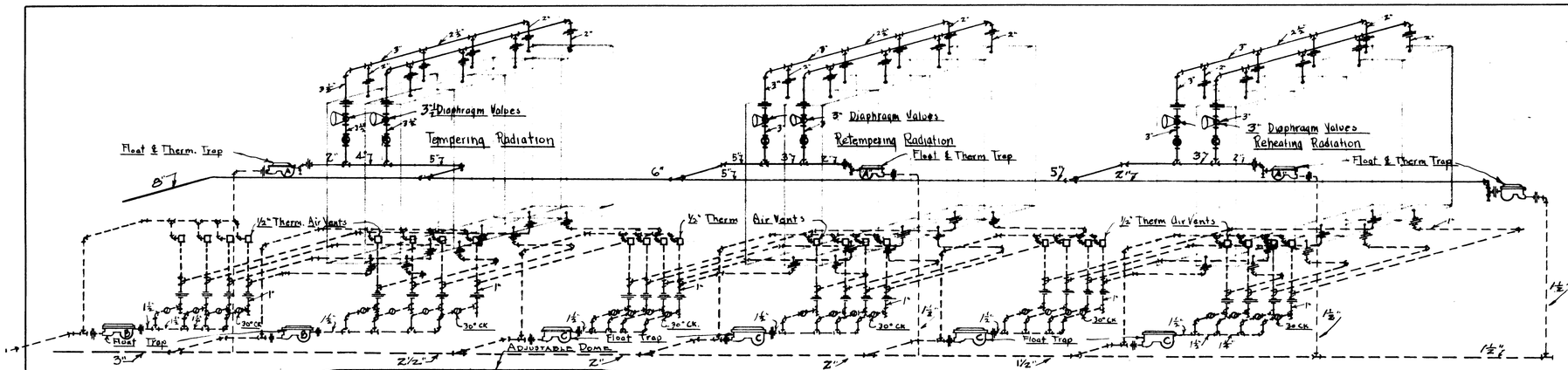
TYPICAL DETAIL ROOF VENTILATORS & BASE
No Scale

MINIMUM DIMENSIONS ROOF VENTILATORS			
Indicated Diameters	16"	8"	6"
Throat "A"	16"	8"	6"
Storm Band "B"	27"	15"	10"
Width Storm Band "C"	10"	5"	5"

SCHOOL OF MUSIC
FOR
INDIANA UNIVERSITY
BLOOMINGTON INDIANA

ROBERT FROST DAGGETT ~ ARCHITECT
ELECTRIC BUILDING INDIANAPOLIS, IND.
CHARLES D. AMMERMAN ~ CONSULTING ENGR.
CENTURY BUILDING INDIANAPOLIS, IND.

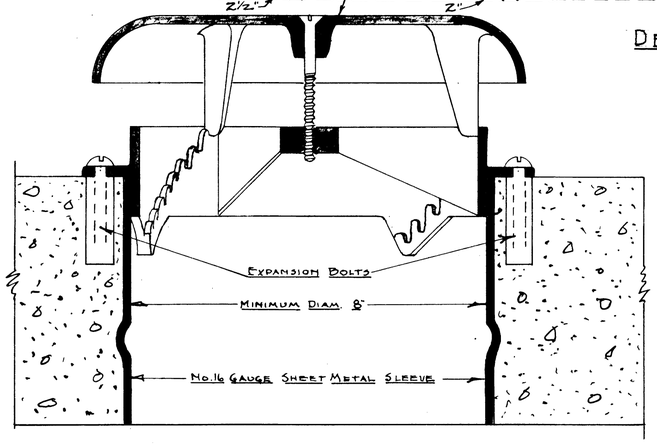
PROJECT 235
DATE Nov. 7, 1935
DRWN. By ____ TRCD. By ____
Sheet No. 7
Of 8 Sheets



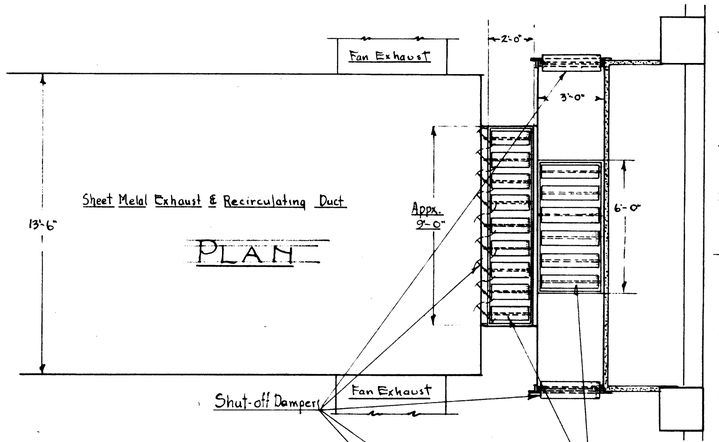
DETAIL OF STEAM AND DRAIN CONNECTIONS BLAST RADIATION

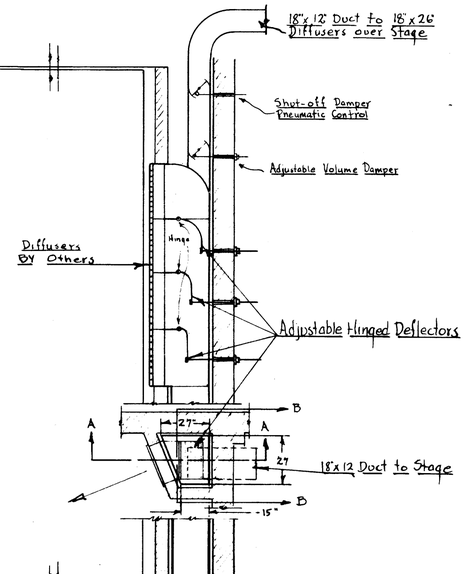
HEAVY DUTY TRAP SCHEDULE

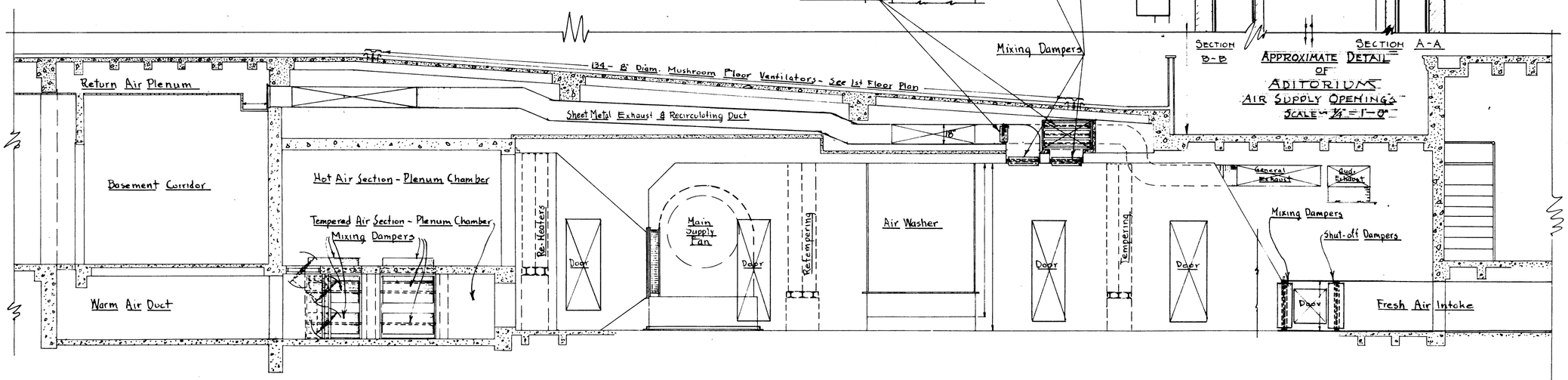
"A" Traps - ¾" Inlets - 700 Lb Cond/Hr @ ½ Lb Differential
"B" " - 2" " Bush-½"-5600 " /Hr @ " "
"C" " 1¼ " 2100 " /Hr @ " "



TYPICAL DETAIL OF MUSHROOM VENTILATOR







SECTION THRU MECHANICAL ROOM - BASEMENT

SCALE - ¼" = 1'-0"

SCHOOL OF MUSIC FOR INDIANA UNIVERSITY
BLOOMINGTON INDIANA

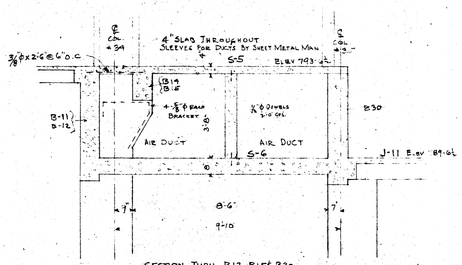
ROBERT FROST DAGGETT ~ ARCHITECT
ELECTRIC BUILDING INDIANAPOLIS, IND.
CHARLES R AMMERMAN ~ CONSULTING ENGR.
CENTURY BUILDING INDIANAPOLIS, IND.

PROJECT	DATE Nov. 7, 1935	Sheet No. 8
235	DRWN By ____ TRCD By ____	Of 8 Sheets

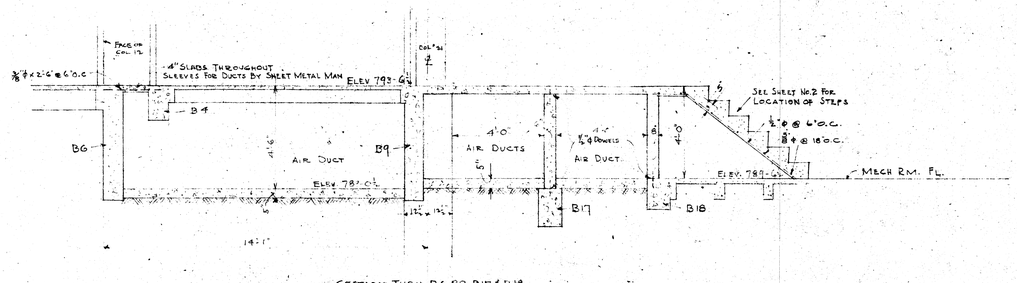
COLUMN SCHEDULE

COLUMN NUMBERS	1 - 8	2 - 7	3 - 6	4 - 5	9 - 16	10 - 15	11 - 12 13 - 14	17 - 24	18 - 23	19 - 22	20 - 21	25 - 32	26 - 31 34 - 39 42 - 47	27 - 30	28 - 29	36 - 37 44 - 45	33 - 40	41 - 48 49	35 - 38 43 - 46	50	51	52 - 53	54	55	56	57	58	59	60	61 - 66	62	63 64	65	67 - 68	69 - 70 71	72 - 73 72A - 73A	74 - 75	62A 65A
SUPT. ROOF	20×22×12 6-¾"□ ¾"@12" 2 SETS	12×12 4-¾"□ ⅝"@12"	12×12 4-¾"□ ⅝"@12"	12×12 4-¾"□ ⅝"@12"	12×12 4-¾"□ ⅝"@12"	12×12 4-¾"□ ⅝"@12"	12×12 4-¾"□ ⅝"@12"	12×48 6-¾"□ ⅝"@12" 2 SETS	12×12 4-¾"□ ⅝"@12"	8"WF 24#	8"WF 24#	12×12 4-¾"□ ⅝"@12"	12×12 4-¾"□ ⅝"@12"	8"WF 24#			12×12 4-¾"□ ⅝"@12"	12×12 4-¾"□ ⅝"@12"	8"WF 24#	12×12 4-¾"□ ⅝"@12"	8"WF 24#		8"WF 24#	16×16 4-1"□ ⅝"@12"	16×16 4-1"□ ⅝"@12"	16×16 4-1"□ ⅝"@12"	16×16 4-1"□ ⅝"@12"	12×12 4-¾"□ ⅝"@12"	12×12 4-¾"□ ⅝"@12"								8"WF 24#
SUPT. 3RD FL.	20×22×12 6-¾"□ ¾"@12" 2 SETS	18½×16 4-⅞"□ ⅝"@12"	18½×16 4-⅞"□ ⅝"@12"	18½×16 4-⅞"□ ⅝"@12"	18½×16 4-⅞"□ ⅝"@12"	16×16 4-1"□ ⅝"@12"	17"×17" 4-1"□ ⅝"@12"	12×54½ 6-¾"□ ⅝"@6" 2 SETS	15×15 4-⅞"□ ⅝"@12"	12"WF 45#	12"WF 45#	18½×16 4-1"□ ⅝"@12"	15×15 4-1"□ ⅝"@12"	12"WF 53#			18½×16 4-1"□ ⅝"@12"	18½×16 4-1"□ ⅝"@12"	12"WF 45#	16×16 4-1"□ ⅝"@12"	12"WF 55#		12"WF 55#	18×20 6-1"□ ⅝"@12"	18½×18 4-1"□ ⅝"@12"	18×16 4-1"□ ⅝"@12"	18×20 6-1"□ ⅝"@12"	16×16 4-1"□ ⅝"@12"	18×16 4-¾"□ ⅝"@12"	12×12 4-¾"□ ⅝"@12"	8"WF 31#	8"WF 31#	8"WF 31#				
SUPT. 2ND FL.	20×22×12 6-1"□ ¾"@12" 2 SETS	20×20 6-1"□ ⅝"@12"	19×19 6-1"□ ⅝"@12"	22½×18 4-1"□ ⅝"@12"	20×20 4-1"□ ⅝"@12"	20×20 4-1"□ ⅝"@12"	20×20 6-1"□ ⅝"@12"	12×54½ 6-¾"□ ⅝"@6" 2 SETS	18×18 6-1"□ ⅝"@12"	12"WF 45#	12"WF 45#	21×21 6-1"□ ⅝"@12"	18×18 6-1"□ ⅝"@12"	12"WF 53#			21×21 6-1"□ ⅝"@12"	21×21 6-1"□ ⅝"@12"	12"WF 45#	18×20 6-1"□ ⅝"@12"	12"WF 55#		12"WF 55#	18×24 10-1"□ ⅝"@12"	22×22 6-1"□ ⅝"@12"	19×19 4-1"□ ⅝"@12"	18×24 8-1"□ ⅝"@12"	18×22 6-1"□ ⅝"@12"	18×18 4-1"□ ⅝"@12"	12×12 4-¾"□ ⅝"@12"								
SUPT 1ST FL.	20×22×12 6-1"□ ¾"@6" 2 SETS	20×20 6-1"□ ⅝"@12"	19×19 6-1"□ ⅝"@12"	22½×18 4-1"□ ⅝"@12"	22×22 4-1"□ ⅝"@12"	22×22 8-1"□ ⅝"@12"	23×23 8-1"□ ⅝"@12"	12×54½ 8-1"□ ⅝"@12" 2 SETS	18×24 6-1"□ ⅝"@12"	18×24 8-1"□ ⅝"@12"	18×24 8-1"□ ⅝"@12"	23×23 6-1"□ ⅝"@12"	18×24 8-1"□ ⅝"@12"	18×28 8-1"□ ⅝"@12"	14×14 4-¾"□ ⅝"@12"	14×14 4-⅝"□ ⅝"@12"	24×24 6-1"□ ⅝"@12"	24×24 8-1"□ ⅝"@12"	18×24 8-1"□ ⅝"@12"	18×25 10-1"□ ⅝"@12"	14×46 10-1"□ ⅝"@6" 2 SETS	16×16 4-¾"□ ⅝"@12"	14×50 14-1"□ ⅝"@6" 2 SETS	18×30 14-1"□ ⅝"@12"	24×24 10-1"□ ⅝"@12"	22×22 6-1"□ ⅝"@12"	18×30 10-1"□ ⅝"@12"	18×28 8-1"□ ⅝"@12"	21×21 6-1"□ ⅝"@12"	14×14 4-1"□ ⅝"@12"	18×20 6-1"□ ⅝"@12"	16×16 4-¾"□ ⅝"@12"	20×20 8-1"□ ⅝"@12"	14×14 4-¾"□ ⅝"@12"			16×20 4-⅞"□ ⅝"@12"
SUPT BSMT.	26×27 6-1"□ ¾"@12" 2 SETS	24×26 10-1"□ ⅝"@12"	26×26 8-1"□ ⅝"@12"	26×26 8-1"□ ⅝"@12"	33×27 4-1"□ ⅝"@12"	24×28 8-1"□ ⅝"@12"	24×30 10-1"□ ⅝"@12"	16×59½ 8-1"□ ⅝"@6" 2 SETS	28×24 6-1"□ ⅝"@12"	34×29 8-1"□ ⅝"@12"	25×25 8-1"□ ⅝"@12"	28×28 8-1"□ ⅝"@12"	28×24 8-1"□ ⅝"@12"	24×28 8-1"□ ⅝"@12"	20×20 4-1"□ ⅝"@12"	20×20 4-1"□ ⅝"@12"	28×28 8-1"□ ⅝"@12"	28×28 8-1"□ ⅝"@12"	26×26 8-1"□ ⅝"@12"	28×25 10-1"□ ⅝"@12"	20×46 10-1"□ ⅝"@6" 2 SETS	20×20 4-1"□ ⅝"@12"	20×50 14-1"□ ⅝"@6" 2 SETS	28×30 14-1"□ ⅝"@12"	28×28 10-1"□ ⅝"@12"	25×25 8-1"□ ⅝"@12"	24×30 10-1"□ ⅝"@12"	24/30 8-1"□ ⅝"@12"	25×25 8-1"□ ⅝"@12"	18×18 4-1"□ ⅝"@12"	24×24 8-1"□ ⅝"@12"	20×20 4-1"□ ⅝"@12"	26×26 8-1"□ ⅝"@12"	18×18 4-1"□ ⅝"@12"	18×18 4-⅞"□ ⅝"@12"	18×9 4-⅞"□ ⅝"@12"		
FOOTING PAD.	4'6"×4'6" ×2'0"	4'9"×4'9" ×2'2"	4'9"×4'9" ×2'2"	4'9"×4'9" ×2'2"	4'9"×4'9" ×2'2"	4'9"×4'9" ×2'2"	4'9"×4'9" ×2'2"	4'6"×12'0" ×2'0"	4'6"×4'6" ×2'0"	4'3"×8'3" ×1'10"	4'6"×4'6" ×2'0"	5'0"×5'0" ×2'2"	4'6"×4'6" ×2'0"	4'9"×4'9" ×2'2"	3'3"×3'3" ×1'4"	3'3"×3'3" ×1'4"	5'0"×5'0" ×2'2"	5'0"×5'0" ×2'2"	4'6"×4'6" ×2'0"	4'9"×4'9" ×2'2"	4'8"×5'10" ×2'2"	3'6"×3'6" ×1'6"	4'9"×6'4" ×2'2"	5'0"×5'0" ×2'2"	5'0"×5'0" ×2'2"	4'6"×4'6" ×2'0"	4'9"×4'9" ×2'2"	4'9"×4'9" ×2'2"	4'6"×4'6" ×2'0"	3'0"×3'0" ×1'6"	4'6"×4'6" ×2'0"	3'3"×3'3" ×1'4"	4'9"×4'9" ×2'2"	2'9"×2'9" ×1'4"	2'6"×2'6" ×1'4"	2'6"×2'6" ×1'4"	2'6"×12'0" ×1'4"	
FOOTING STEEL EACH WAY.	14-¾"□ HOOK BOTH	15-⅝"□ HOOK BOTH	15-⅝"□ HOOK BOTH	15-⅝"□ HOOK BOTH	15-⅝"□ HOOK	15-⅝"□ HOOK	15-⅝"□ HOOK	21-⅝"□ SHORT WAY 13-⅝"□ LONG WAY HOOK	14-¾"□ HOOK	19-⅝"□ HOOK	14-¾"□ HOOK	16-¾"□ HOOK	14-¾"□ HOOK	15-⅝"□ HOOK	11-⅝"□ HOOK	11-⅝"□ HOOK	16-⅝"□ HOOK	14-⅝"□ HOOK	14-¾"□ HOOK	19-⅝"□ HOOK	20-⅝"□ SHORT WAY 16-⅝"□ LONG WAY HOOK	11-⅝"□ HOOK	21-⅝"□ SHORT WAY 16-⅝"□ LONG WAY HOOK	16-⅝"□ HOOK	16-⅝"□ HOOK	14-⅝"□ HOOK	15-⅝"□ HOOK	15-⅝"□ HOOK	14-⅝"□ HOOK	12-⅝"□ HOOK	14-⅝"□ HOOK	11-⅝"□ HOOK	15-⅝"□ HOOK	14-⅝"□ HOOK	5-⅝"□ HOOK	5-⅝"□ HOOK	5-⅝"□ HOOK	

BOTTOM OF ALL FOOTINGS 776-0



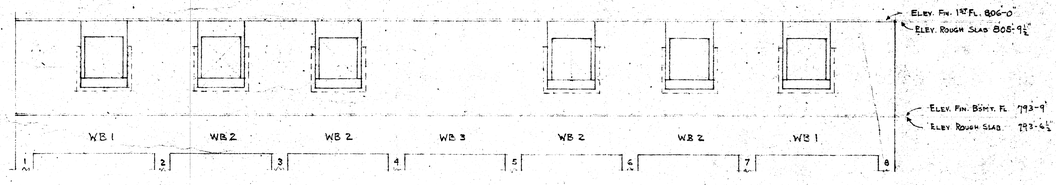
SECTION THRU B12, B15 & B30
BASEMENT



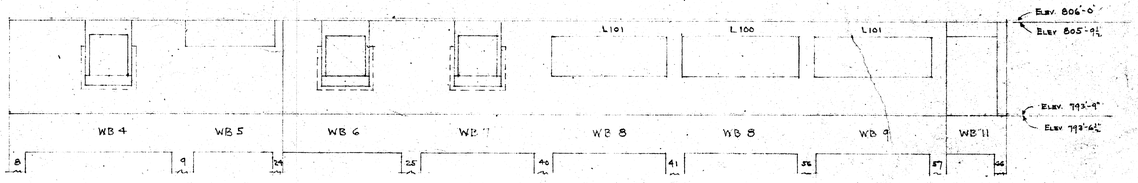
SECTION THRU B6, B9, B17 & B18
BASEMENT

NOTES -

ALL JOISTS 5" WIDE AT 25" O.C. EXCEPT AS NOTED OTHERWISE. TAPERED JOIST TO TAPER TO 10" WIDE FROM A DISTANCE OF 3'0" OUT.
ALL JOIST CONSTRUCTION TO HAVE 6x6 : 10/0 MESH 21# PER 100# IN TOP OVER PANS
ALL SOLID SLABS TO HAVE ⅜" ϕ @ 18" O.C. AT RT. ANGLES TO MAIN REINFORCING UNLESS NOTED OTHERWISE
ALL FLOOR SLABS ON GARUND OR FILL TO HAVE 6x6 - 6/6 MESH 42# PER 100#
PROVIDE CONTINUITY IN ALL SLABS AND BEAMS WHERE POSSIBLE. EXTEND BENT BARS TO ¼ PT. OF ADJACENT SPAN
NON CONTINUOUS ENDS OF BENT BEAM BARS TO BE HOOKED
PROVIDE 2-⅜ ϕ STIRRUP SUPPORT BARS (EXCEPT WHERE SHOWN OTHERWISE) FULL LENGTH OF ALL BEAMS WITH STIRRUPS
TEE WIDTHS SHOWN IN BEAM SCHEDULE ARE MINIMUM. HOLD PANS BACK TO PROVIDE NOT LESS THAN 4" OF CONCRETE ADJACENT TO ALL BEAMS AND MORE IF REQUIRED FOR WIDTH OF TEE CALLED FOR.
WHERE JOISTS FRAME PARALLEL WITH BEAMS PROVIDED JOIST REINFORCING ADJACENT TO BEAMS.
CONCRETE LUGS OVERHANGING EXTERIOR SIDE OF SPANDREL BEAMS TO BE REINFORCED WITH ½ ϕ x 2'6" ⌐ 12" O.C. AT RT. ANGLES TO BEAMS IN TOP OF OVERHANG.
CONCRETE BRACKETS ON COLUMNS SUPPORTING BASEMENT BEAMS TO BE REINFORCED PER DETAIL.
COLUMN BARS TO LAP 2'0" AT EACH FLOOR LEVEL
PROVIDE FOOTING DOWELS 4'0" LONG SAME NUMBER AND SIZE AS COLUMN BARS ABOVE
ALL FOOTING BARS TO BE HOOKED EACH END
WHERE OFFSET OF COLUMN FACE ABOVE IS MORE THAN 2" COLUMN BARS ARE TO BE SHOP BENT.
ALL CONCRETE TO BE 2000# CONC. EXCEPT ENTIRE 3RD FLOOR CONSTRUCTION WHICH SHALL BE 3000# CONC.
PROVIDE 2 ROWS OF SLAB BAR SPACERS FOR SOLID SLAB SPANS
PROVIDE JOIST AND BEAM BAR CHAIRS, ONE AT EACH END AND APPROX. 6'0" O.C.
JOISTS UNDER AND ADJACENT TO PARALLEL PARTITIONS TO HAVE EXTRA REINFORCING AS CALLED FOR.
ALL JOIST SLABS TO HAVE 4" CONC. CONTINUOUS BRIDGING JOIST IN CENTER OF SPANS REINFORCED WITH 2-½ ϕ CONTINUOUS, WHERE SPLICES OCCUR LAP BARS 2'0" MIN.
ALL SPANDREL ANGLE ANCHOR BOLTS TO BE ⅝" ϕ x 8" SPACED 4" FROM EACH END AND NOT OVER 36" APART.
DOVE TAIL ANCHOR SLOTS, 1 CONTINUOUS VERTICAL IN EACH COL. FACE, 1 CONTINUOUS VERTICAL IN EACH OUTSIDE FACE OF CORNER COLS., AND 3 CONTINUOUS VERTICAL IN BASEMENT WALLS BETWEEN WINDOWS.
FOR STAIR CONSTRUCTION SEE STAIR DETAIL 5, SHEET #15. CONC. POSTS SUPPORTING STAIR LANDINGS TO HAVE 4-⅝"ϕ - ¼" TIES 3'2" O.C.



SOUTH ELEVATION

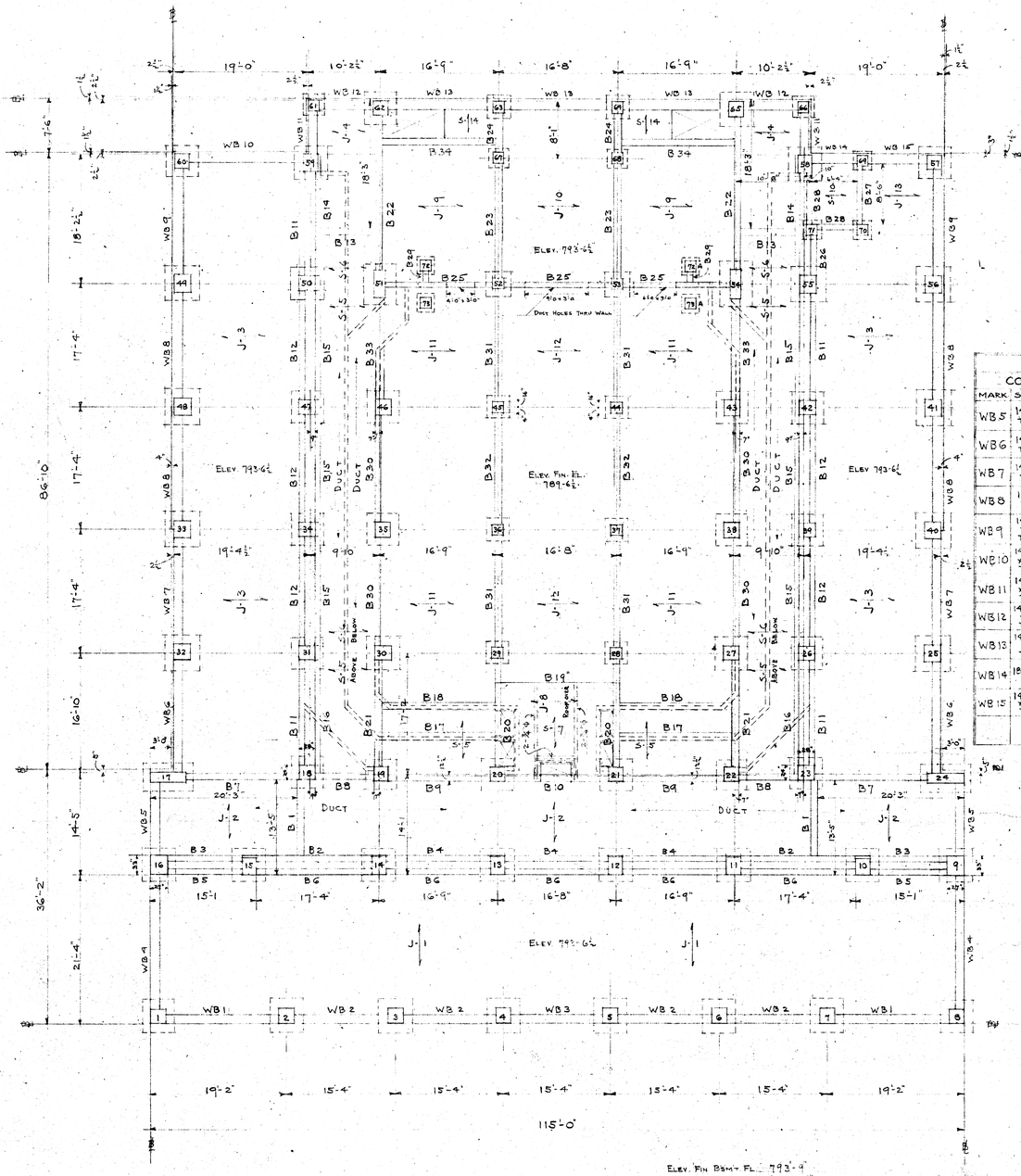


EAST ELEVATION
WEST SIMILAR

BASEMENT - CONCRETE - WALLS
Scale ⅛" = 1'-0"

SCHOOL OF MUSIC
FOR INDIANA UNIVERSITY
ROBERT FROST DAGGETT - ARCHITECT
922 ELECTRIC BLDG. INDIANAPOLIS, INDIANA

DRAWN BY TRACED BY CHECKED BY	COLUMN SCHEDULE	SHEET No. S1 OF 7 SHEETS DATE 1-24 SCALE
PROJECT NUMBER 3503		



SLAB SCHEDULE

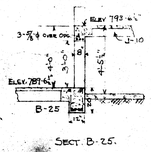
CONCRETE MARK	CONCRETE TYPE	REINFORCING STEEL NO	SIZE TYPE	REMARKS
J1	10+2½ TAP	1	½" STR	
		1	⅜ ϕ STR	
		1	⅜ ϕ BT	
J2	6+2½ TAP	1	½" STR	
		1	⅜ ϕ BT	
J3	8+2½ TAP	1	½" STR	
		1	⅜ ϕ BT	
J4	6+2½	1	½" STR	
		1	⅜ ϕ BT	
S5	4" SOLID	½	⅜ ϕ @ 6" O.C.	
		½	⅜ ϕ @ 18" O.C.	
S6	8" SOLID	½	⅜ ϕ @ 6" O.C.	
		½	⅜ ϕ @ 18" O.C.	
S7	6" SOLID	½	⅜ ϕ @ 6" O.C.	
		½	⅜ ϕ @ 18" O.C.	
J8	6+2½	1	½" STR	
		1	⅜ ϕ BT	
J9	6+2½ TAP	1	½" STR	
		1	⅜ ϕ BT	
J10	6+2½ TAP	1	½" STR	
		1	⅜ ϕ BT	
S10	6" SOLID	½	⅜ ϕ @ 6" O.C. EACH WAY.	
J11	8+2½	1	½" STR	
		1	⅜ BT	
J12	8+2½	1	½" STR	
		1	⅜ BT	
J13	8+2½	1	½" STR	
		1	⅜ BT	
S14	12" SOLID	⅜	⅜ ϕ @ 6" O.C.	
		⅜	⅜ ϕ @ 18" O.C.	

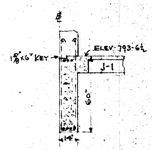
BEAM SCHEDULE

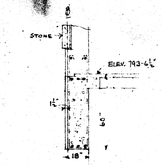
CONCRETE MARK	SIZE	SECTION	REINFORCING STEEL NO	SIZE TYPE	REMARKS	BENDING	STIRRUPS EACH END NO	SIZE SPACING	TYPE
B1	12×12 T24		2	¾ STR			8	⅜ 10@3 4@6 12@C.	
			2	¾ ϕ BT					
B2	10×18 T20		2	1" ϕ STR	SEE SECTION		11	⅜ 10@3 5@6 5@9	
			2	¾ ϕ BT					
B3	10×18 T12	Do	2	¾ ϕ STR	Do.	Do.	4	⅜ 10@3 3@9	Do.
			2	¾ ϕ BT					
B4	10×18 T14	Do	2	¾ STR	Do.	Do.	4	⅜ 10@3 3@9	Do.
			2	¾ BT					
B5	10×20 T12	Do	1	⅞ ϕ STR	BOT. Do.				
			2	¾ ϕ STR	CONT. TOP		⅜ ϕ @ 12" O.C.		Do.
B6	10×63 T12	Do	2	¾ ϕ STR	BOT. Do.		⅜ ϕ @ 12" O.C.		Do.
			2	¾ ϕ STR	CONT TOP				
B7	10×20	Do	2	1" ϕ STR	BOT. Do		⅜ ϕ @ 12" O.C.		Do.
			2	¾ ϕ STR	TOP				
B8	10×20	Do	2	¾ ϕ STR	BOT. Do.		⅜ ϕ @ 12" O.C.		Do.
			2	¾ ϕ STR	TOP				
B9	10×60	Do.	2	¾ ϕ STR	BOT. Do.		⅜ ϕ @ 12" O.C.		Do.
			2	¾ ϕ STR	TOP				
B10	12×24		2	1" ϕ STR	2-½" ϕ STR. IN TOP.		½" ϕ @ 12" O.C.		
			2	⅞ 12"-	SEE SECT.				
B11	10×60		2	1" ϕ STR	BOT		⅜" ϕ @ 12" O.C.		Do.
			2	¾ ϕ STR	CONT. TOP, SPLICE AT ¼ OF SPAN.				
B12	10×60	Do	2	⅞ ϕ STR	BOT		⅜" ϕ @ 12" O.C.		Do.
			2	¾ ϕ STR	CONT TOP. Do.				
B13	12×24 T18	SAME AS B1	2	1" ϕ STR			5	⅜ 10@3 4@6	
			2	1" ϕ BT					
B14	10×18		2	¾ ϕ STR	SEE SECT		11	⅜ 10@3 5@5 5@9	
			2	1" ϕ BT					
B15	10×18	Do	2	¾ ϕ STR	Do	Do.	4	⅜ 10@3 3@9	Do.
			2	¾ ϕ BT					
B16	10×18	Do.	2	¾ ϕ STR	Do.	Do.	4	⅜ 10@3 3@9	Do.
			2	¾ ϕ BT					
B17	12×30	SAME AS B10	2	¾ STR	Do.		5	⅜ 10@3 4@10	
			2	¾ ϕ BT					
B18	12×16 T20	SAME AS B2	2	¾ ϕ STR	Do.		5	⅜ 10@3 4@10	
			2	¾ ϕ BT					
B19	10×20	Do	2	¾ ϕ STR	BOT. Do.		⅜" ϕ @ 12" O.C.		
			2	¾ ϕ STR	TOP				
B20	14×40	SAME AS B10	2	1½ ϕ STR	HOOK ENDS 2-¾" ϕ STR. IN TOP		12	½ 10@3 2@6 2@11	Do.
			2	1" ϕ BT					
B21	12×25	SAME AS B2	2	1" □ STR.	2-¾" ϕ STR. IN TOP		10	½ 10@3 2@6 2@11	Do
			2	1" □ BT					
B22	10×60 T16		5	1" □ STR	BOT		18	½ 10@3 2@6 2@11 3@12	
			2	⅞ ϕ STR	TOP				
B23	14-26 T22	SAME AS B1	2	1½ □ STR			9	½ 10@3 4@6 4@11	Do.
			2	1" □ BT					
B24	14×16	Do	2	¾ ϕ STR			5	⅜ 10@3 4@8	Do.
			2	¾ ϕ BT.					
B25	12×20	SAME AS B2	2	¾ ϕ STR			4	⅜ 10@3 3@8	Do.
			2	¾ ϕ BT.					
B26	10×60	SAME AS B11	2	⅝ ϕ STR	BOT		⅜" ϕ @ 12" O.C.		
			2	⅝ ϕ STR	CONT TOP				
B27	5×54	Do	2	¾ ϕ STR	BOT SEE SECT.		½" ϕ @ 12" O.C.		Do.
			2	⅝ ϕ STR	TOP				
B28	6×54	Do	2	¾ ϕ STR	BOT Do		½" ϕ @ 12" O.C.		Do.
			2	⅝ ϕ STR	TOP				
B29	10×8½	SAME AS B1	3	⅝ ϕ STR					
B30	10×58		2	1" ϕ STR	BOT		½" ϕ @ 12" O.C.		Do.
			2	⅝ ϕ STR	CONT TOP SEE SECT				
B31	12×26 T18	SAME AS B1	2	1" □ STR			10	½ 10@3 2@6 3@8 3@12	
			2	1" ϕ BT					
B32	12×26 T18	Do	2	1" ϕ STR		Do.	10	½ 10@3 2@6 3@8 3@12	Do.
			2	1" □ BT					
B33	14×33	SAME AS B32	2	1" □ STR			9	½ 10@3 3@6 3@9	Do.
			2	1" □ BT					
B34	12×19	Do	2	¾ ϕ STR			4	⅜ 10@3 3@7	Do
			2	¾ ϕ BT					
W8.1	14×50 T18		4	1" ϕ STR	BOT HOOK ENDS		11	½ 10@3 2@6 3@8 3@12	NOTE: EXTEND 1½" ABOVE BOTT. FL.
			3	1" ϕ STR	TOP CONT.				
W8.2	14×60 T18	Do	3	1" □ STR	BOT HOOK ENDS		10	½ 10@3 2@6 3@8 3@12	Do Do
			3	1" ϕ STR	TOP CONT.				
W8.3	14×70 T 9	Do	3	1" □ STR	BOT HOOK ENDS.		14	½ 10@3 2@6 3@8 3@12	Do Do.
			3	1" ϕ STR	CONT TOP.				
W8.4	14×63 T 9	Do	4	1" □ STR	BOT HOOK ENDS			½" @ 12" O.C.	Do Do.
			2	1" ϕ STR	CONT TOP.				

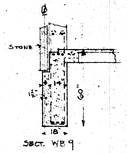
BEAM SCHEDULE CONT.

CONCRETE MARK	SIZE	SECTION	REINFORCING STEEL NO	SIZE TYPE	REMARKS	BENDING	STIRRUPS EACH END NO	SIZE SPACING	TYPE
WB5	14×60 T18	SAME AS WB1	2	1" ϕ STR	BOT. HOOK ENDS		½" ϕ @ 12" O.C.		
			2	1" ϕ STR	CONT TOP				
WB6	14×60 T18	Do	3	1" □ STR	BOT HOOK ENDS		½" ϕ @ 12" O.C.		Do
			3	⅞ ϕ STR	CONT TOP				
WB7	14×60 T18	Do	3	1" ϕ STR	BOT. HOOK ENDS		½" ϕ @ 12" O.C.		Do
			3	⅞ ϕ STR	CONT TOP				
WB8	18×60 T22	Do.	3	⅞ ϕ STR	BOT		½" ϕ @ 12" O.C.		Do
			3	⅞ ϕ STR	CONT. TOP				
WB9	19 18 X 60 T 22		3	1" ϕ STR	BOT HOOK ENDS		½" ϕ @ 12" O.C.		Do.
			3	⅞ ϕ STR	CONT. TOP				
WB10	19 18 X 60 T 22	Do	3	1" ϕ STR	BOT. HOOK ENDS.		½" ϕ @ 12" O.C.		Do
			2	⅞ ϕ STR	CONT TOP.				STOP UNDER OPEN FL. LINE
WB11	19 18 X 60 T 22	Do.	2	⅞ ϕ STR	BOT		½" ϕ @ 12" O.		Do
			2	⅞ ϕ STR	TOP				
WB12	19 18 X 60 T 22	Do.	2	⅞ ϕ STR	BOT		½" ϕ @ 12" O. C.		Do
			2	⅞ ϕ STR	TOP				
WB13	19 18 X 60 T 22	Do	3	⅞ ϕ STR	BOT		½" ϕ @ 12" O. C.		Do
			3	⅞ ϕ STR	CONT TOP				
WB14	18½ 53½		3	⅞ ϕ STR	BOT		½" ϕ @ 12" O. C.		Do
			2	⅞ ϕ STR	TOP				
WB15	19 18 X 60 T 22	SAME AS WB9	3	⅞ ϕ STR	BOT				
			2	⅞ ϕ STR	TOP				







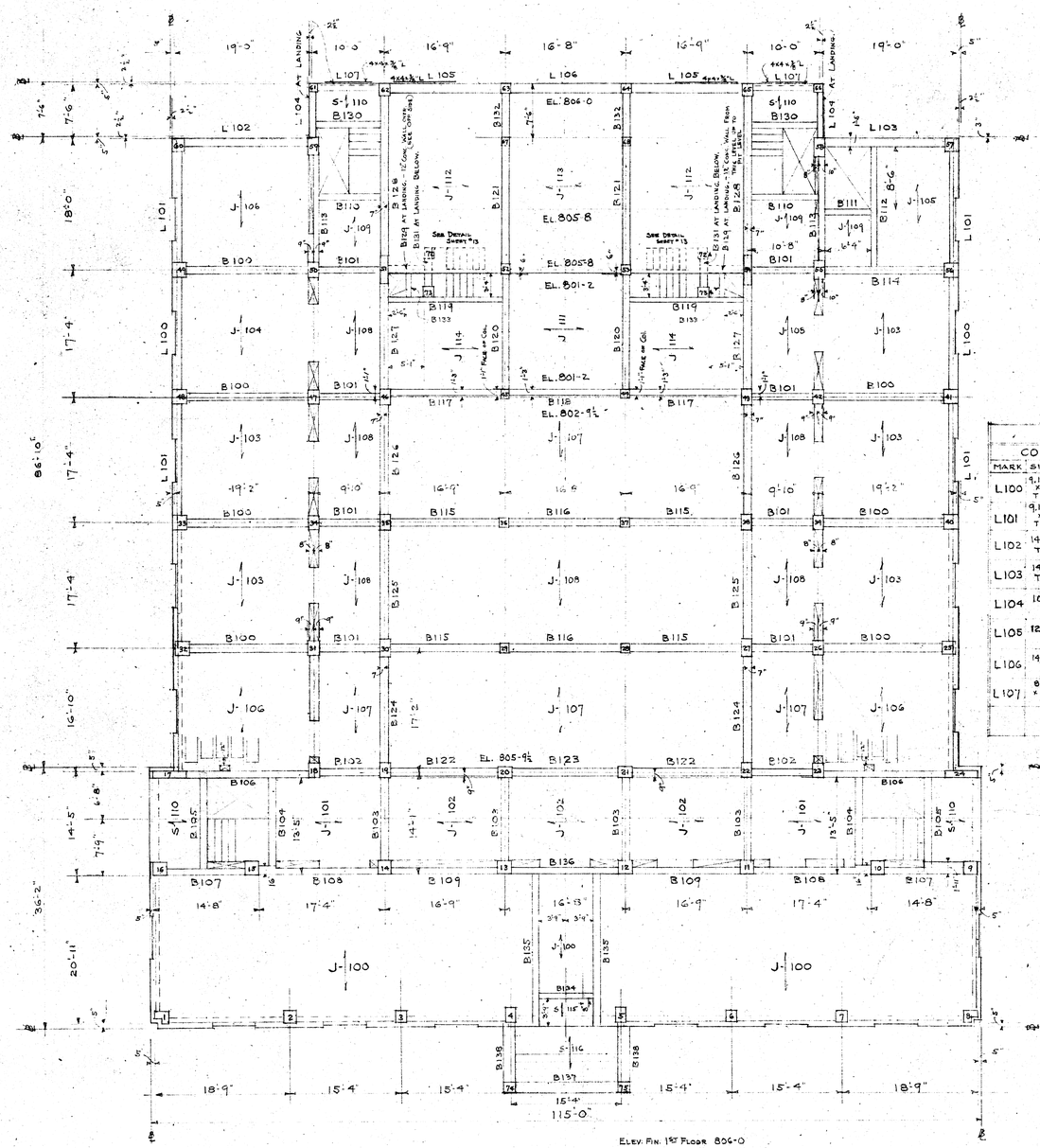


SCHOOL OF MUSIC
FOR INDIANA UNIVERSITY

ROBERT FROST DAGGETT-ARCHITECT
922 ELECTRIC BLDG. INDIANAPOLIS, INDIANA

DRAWN BY		
TRACED BY		
CHECKED BY		
PROJECT NUMBER	3503	BASEMENT FRAMING PLAN

SHEET No. S2
OF 7 SHEETS
DATE 11-7-35



ELEV. FIN. 1ST FLOOR 806-0
ELEV. ROUGH SLAB 805-9½

SLAB SCHEDULE

CONCRETE MARK	TYPE	REINFORCING STEEL NO.	SIZE	TYPE	REMARKS
J100	10+2½ TAP.	1	½"	STR	3 JOISTS UNDER 5 BAR TO TRANSIT PER 10 BAR
		1	⅜	BT	1 JOIST UNDER 4 BAR
J101	6+2½ TAP.	1	⅜	STR	JOINT AT TENT SPACES 12½" DEEP
		1	½	BT	
J102	6+2½ TAP.	1	⅜	STR	Do
		1	½	BT	
J103	6+2½ TAP.	1	⅜	STR	Do.
		1	½	BT	
J104	6+2½ TAP.	1	⅜	STR	Do.
		1	½	BT	
J105	6+2½ TAP.	1	⅜	STR	
		1	½	BT	
J106	6+2½ TAP.	1	½	STR	Do.
		1	½	BT	
J107	6+2½ TAP.	1	⅜	STR	Do.
		1	½	BT	
J108	6+2½ TAP.	1	⅜	STR	Do.
		1	½	BT	
J109	6+2½ 6YS	1	½	STR	
		1	½	TT	
S110	4" SOLID	⅜ @ 6" O.C.			
		½ @ 18" O.C.			
J111	6+2½ TAP.	1	⅜	STR	
			⅜	BT	
J112	10+2½ TAP.	1	½	STR	6" Joist @ 20"
		1	½	BT	
J113	8+2½ TAP.	1	⅜	STR	Do.
		1	⅜	BT	
J114	6+2½ TAP.	1	⅜	STR	
		1	⅜	BT	
S115	6" SOLID	⅜ @ 8 O.C.			
		⅜ @ 18 O.C.			
S116	7" SOLID	½ @ 6" O.C.			
		⅜ @ 18" O.C.			

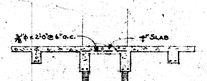
BEAM SCHEDULE

CONCRETE MARK	SIZE	SECTION	REINFORCING STEEL NO	SIZE	TYPE	REMARKS	BENDING	STIRRUPS EACH END NO	SIZE	SPACING	TYPE
B100	14×30 T 38		4	1"	□ STR.	Hook Ends.		14	⅝"	1@3 4@6 RMS 3@8	
			2	1"	□ BT.						
B101	12×20	Do.	2	⅞	STR.			4	⅜"	1@3 3@8	Do.
			2	⅞	BT.						
B102	12×16	Do.	2	⅞	STR.			4	⅜"	1@2 3@6	Do.
			2	⅞	BT.						
B103	12×20 T 20	Do	2	1"	STR			7	⅝"	1@3 3@9	Do.
			2	1"	BT.						
B104	12×16 T 30		2	1"	□ STR			9	⅝"	1@3 2@6 1@12	
			2	1"	□ BT.						
B105	12×16	Do	2	⅞	STR			8	¾"	1@3 6@6 3@10	Do.
			2	⅞	BT.						
B106	12×30 T 36	Do	3	1"	□ STR.	Hook Ends. 4-1" □ STR. in Top.		13	⅝"	1@3 4@6 7@12	
			3	1"	BT.						
B107	10×24 T 6	Do.	2	1"	STR			13	¾"	1@3 4@6 8@12	Do
			2	⅞	BT.						
B108	10'16 x 24 T 18	Do.	2	1"	STR.	Hook Ends.		15	¾"	1@3 4@6 10@12	Do.
			2	1"	BT.						
B109	10×24 T 14	Do	2	⅞	STR.			10	¾"	1@3 5@6 7@12	Do.
			2	⅞	BT.						
B110	12×16 T 6	Do.	2	⅞	STR.			5	¾"	1@3 4@8	Do.
			2	⅞	BT.						
B111	8×12	Do.	1	½	STR.						
			1	½	BT.						
B112	10×18 T 18	Do	2	1"	STR.			6	¾"	1@3 5@6	Do.
			1	1"	BT.						
B113	10×30	Do.	2	1"	STR.	2-¾" ⌀ in Top.		17	⅝" @ 12" O.C.		M
			2	⅞	BT.						
B114	16×20 T 46	SAME AS B 100	4	1"	□ STR.	Hook Ends.		17	½"	1@3 2@6 14@12	
			4	1"	BT.						
B115	14×20 T 28	Do.	2	1⅛	□ STR.			11	½"	1@3 3@6 7@12	Do.
			2	1"	BT.						
B116	14×20 T 24	Do	2	1"	STR.		Do	Do	Do	Do	Do.
			2	1"	BT.						
B117	10×28 T 14		2	⅞	STR.			6	¾"	1@3 3@6 1@10	
			2	⅞	BT.						
B118	10×28 T 14	Do	2	⅞	STR.		Do.	Do	Do	Do	Do.
			2	⅞	BT.						
B119	8×14 T 14		2	⅞	STR.			12	¾"	1@3 5@7	Do.
			1	⅞	BT.						
B123	12×26 T 24	SAME AS B100	2	1⅛	□ STR.			10	¾"	1@3 3@6	
			2	1"	□ BT.						
B121	14×28 T 28	Do.	3	1	□ STR.			12	¾"	1@3 4@6 7@12	Do.
			3	1	□ BT.						
B122	13½×20, T 24		2	1"	□ STR.			8	¾"	1@3 3@6 3@10	Do.
			2	1"	□ BT.						
B123	13½×20 T 20	Do	2	1"	STR.		Do	Do	Do	Do	Do
			2	1"	BT.						
B124	13½×22 T 20½		2	⅞	STR.			4	¾"	1@3 3@8	
			2	⅞	BT.						
B125	12½×34 T 26½	Do.	4	⅞	STR.	Bot.					
			2	⅞	STR.	Cont. in Top.					
B126	13½×46 T 29½	Do	4	⅞	STR.	Bot.					
			2	⅞	STR.	Cont. in Top					
B127	13½×72 T 29½	Do.	4	⅞	STR.	Bot.					
			2	⅞	STR.	Cont. in Top.					
B128	13½×90 T 29		2	1"	STR			15	¾"	1@3 4@6 10@12	
			4	1"	BT.						
B129	12×16		3	⅞	STR	Hook Ends.		7	⅝"	1@3 3@6	
			2	⅞	STR	Top.					
B130	12×11	SAME AS 104	2	⅞	STR.			7	⅝"	1@3 4@6	
			2	⅞	BT.						
B131	12×20	Do.	3	⅞	STR.	Hook Ends.			⅝" @ 6" O.C.		Do.
			1	⅞	BT.						
B132	14×12½		3	⅞	STR.			8	¾"	1@3 4@6 3@12	
			1	⅞	BT.						
B133	8×8		2	½	□ STR.						
B134	8×18	SAME AS 104	2	⅞	STR.			4	¾"	1@3 3@6	Do
			1	⅞	BT.						
B135	12×20 T 18	SAME AS 100	3	1"	STR			9	¾"	1@2 6@6 2@8	
			1	⅞	STR						
B136	10×26 T 14	SAME AS 104	2	⅞	STR			9	½"	1@2 4@6 4@12	
			2	⅞	BT.						
B137	16×36	Do	4	1"	STR	Bot.			½" @ 18" O.C.		
			2	⅞	STR	Top					
B138	24×36	Do	4	⅞	STR	Bot			½" @ 18" O.C.		Do
			2	⅞	STR	Top					

BEAM SCHEDULE — CONT.

CONCRETE MARK	SIZE	SECTION	REINFORCING STEEL NO	SIZE	TYPE	REMARKS	BENDING	STIRRUPS EACH END NO	SIZE	SPACING	TYPE
L100	9,10×14 x 23 T 14		2	⅞	STR			9	⅞	1@3 4@6 4@12	
			2	⅞	BT.						
L101	9,10×14 x 23 T 14	Do	2	⅞	STR		Do	Do	Do	Do	Do
			2	⅞	BT.						
L102	14×24 T 26		2	1⅛	STR			9	⅞	1@3 4@6 4@12	Do
			2	1⅛	BT.						
L103	14×30 T 18		2	1"	STR	2-1"⌀ x 8'-0" Top Center on B112		10	⅝"	1@3 3@6 6@12	
			2	1"	BT.						
L104	10×18		2	⅞	STR			6	⅞	1@3 5@6	
			1	⅞	BT.						
L105	12×23		2	⅞	STR			4	⅞	1@3 3@8	Do
			2	⅞	BT.						
L106	14×23	Do	2	⅞	STR		Do	Do	Do	Do	Do
			2	⅞	BT.						
L107	8,10 x 25½		1	⅞	STR	Bot.		4	⅞	1@3 3@8	Do
			2	⅞	STR	Top					

SET ANCHOR BOLTS FOR STEEL COLS. IN TOP OF COLS. No. 19, 20, 21, 22, 27, 30, 35, 38, 43, 46, 51, 59, 62, 63, 64 & 65.



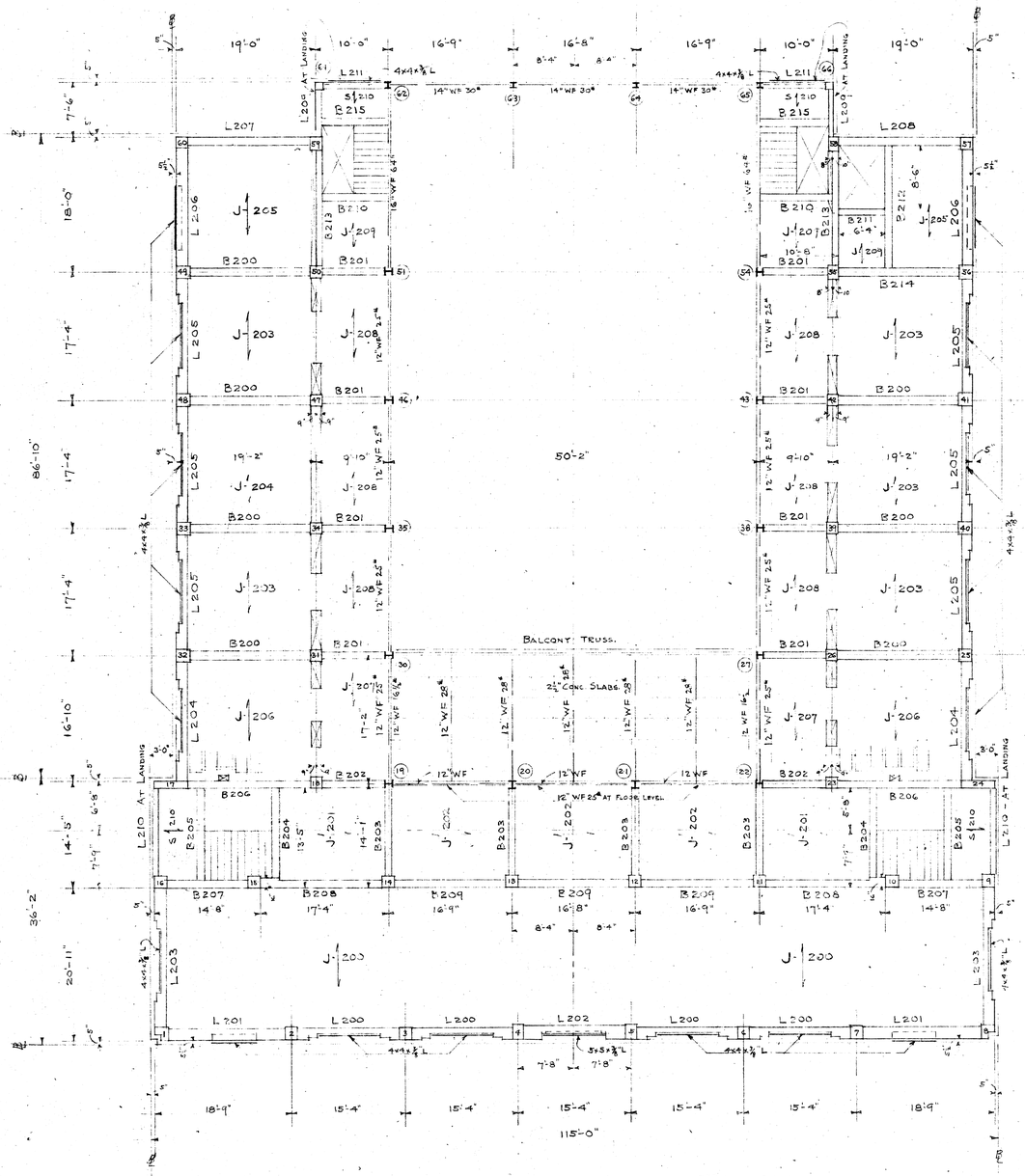
SECTION THRU CORRIDOR DOORS

SCHOOL OF MUSIC
FOR INDIANA UNIVERSITY
ROBERT FROST DAGGETT-ARCHITECT
932 ELECTRIC BLDG. INDIANAPOLIS, INDIANA

DRAWN BY
TRACED BY
CHECKED BY
PROJECT NUMBER 3503

FIRST FLOOR FRAMING PLAN

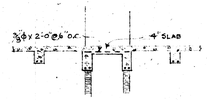
SHEET No. S2 OF 7 SHEETS
DATE 11-7-38
SCALE 1/4"=1'-0"



ELEV FIN. 2ND FLOOR 819-0
ELEV. ROUGH SLAB 818-9½

SLAB SCHEDULE

CONCRETE		REINFORCING STEEL			
MARK	TYPE	No	SIZE	TYPE	REMARKS
J200	10+2½ TAP.	1	1" ϕ	STR.	
			⅜" ϕ		
J201	6+2½ TAP.	1	⅜" ϕ	STR.	Joist Reinforcing Steel
		1	⅜" ϕ	T.	
J202	6+2½ TAP.	1	⅜" ϕ	STR.	
		1	⅜" ϕ	T.	
J203	6+2½ TAP.	1	⅜" ϕ	STR.	
		1	⅜" ϕ	BT.	
J204	6+2½ TAP.	1	½" ϕ	STR.	
		1	⅜" ϕ	BT.	
J205	6+2½ TAP.	1	⅜" ϕ	STR.	
		1	⅜" ϕ	BT.	
J206	6+2½ TAP.	1	½" ϕ	STR.	
		1	⅜" ϕ	BT.	
J207	6+2½ TAP.	1	½" ϕ	STR.	
		1	⅜" ϕ	BT.	
J208	6+2½ TAP.	1	⅜" ϕ	STR.	
		1	⅜" ϕ	BT.	
J209	6+2½ STR.	1	½" ϕ	STR.	
		1	½" ϕ	T.	
S210	4" SOLID	36	⅜" ϕ	6"	
		36	⅜" ϕ	18"	



SECTION THRU CORRIDOR DOORS

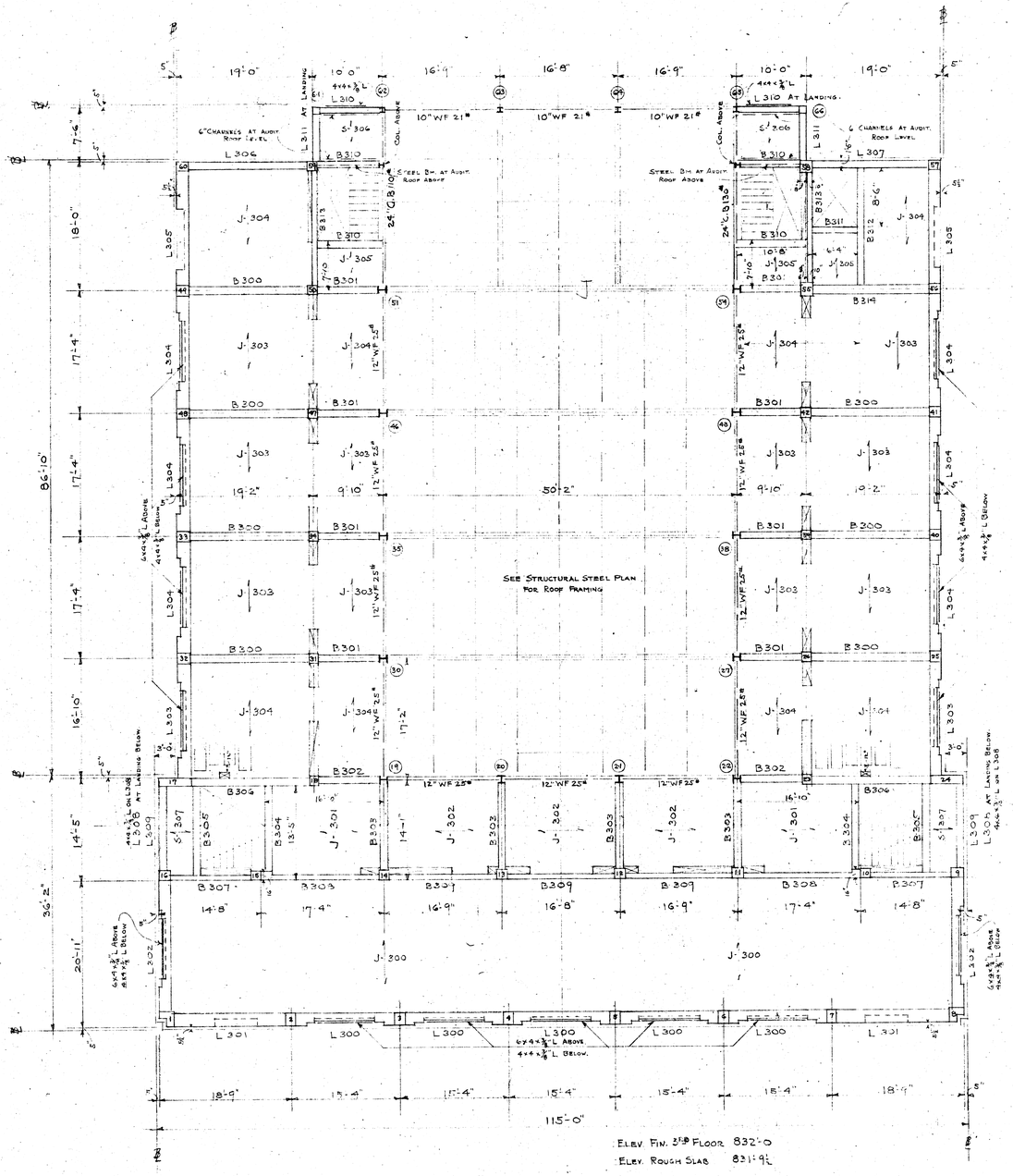
BEAM SCHEDULE

CONCRETE			REINFORCING STEEL				STIRRUPS EACH END		
MARK	SIZE	SECTION	No.	SIZE	TYPE	REMARKS	BENDING	No.	SIZE	SPACING	TYPE
B200	14 x 20 T 38		4	1" ϕ	STR	HOOK ENDS		14	½" ϕ	1@3 3@6 4@8 5@12	
			2		BT						
B201	12 x 20	Do	2	⅞" ϕ	STR			4	⅝" ϕ	1@3 3@8	Do
			2	⅞" ϕ	BT						
B202	2 x 16	Do	2	⅝" ϕ	STR			4	⅝" ϕ	1@3 3@8	Do
			2	⅝" ϕ	BT						
B203	12 x 20 T 20	Do	2	1" ϕ	STR			7	½" ϕ	1@3 3@7 3@12	Do
			2	1" ϕ	BT						
B204	12 x 20 T 18		2	1" ϕ	STR			10	⅜" ϕ	1@3 3@8 3@12	
			2	⅞" ϕ	BT						
B205	12 x 16	Do	2	⅞" ϕ	STR			8	⅜" ϕ	1@3 3@8	Do
			2	⅞" ϕ	BT						
B206	12 x 20 T 26	Do	3	1" □	STR	HOOK ENDS		13	⅜" ϕ	1@3 4@6 5@12	
			3	1" ϕ	BT	4-1" STR. IN TOP					
B207	10-24 T 16	Do	2	1" ϕ	STR			13	⅜" ϕ	1@3 4@6 5@12	Do
			2	⅞" ϕ	BT						
B208	10 16-24 T 18	Do	2	1" ϕ	STR	HOOK ENDS.		15	⅜" ϕ	1@3 4@6 5@12	Do
			2	1" ϕ	BT						
B209	10 x 24 T 14	Do	2	⅞" ϕ	STR			10	⅜" ϕ	1@3 5@6 6@12	Do
			2	⅞" ϕ	BT						
B210	12 x 16 T 16	Do	2	¾" ϕ	STR			5	⅜" ϕ	1@3 4@8	Do
			2	¾" ϕ	BT						
B211	9-12	Do	2	½" □	STR						
			1	½" □	BT						
B212	10-18 T 18	Do	2	1" ϕ	STR			6	⅜" ϕ	1@3 5@8	Do
			1	1" ϕ	BT						
B213	10 x 30	Do	2	1" ϕ	STR	2-⅜" ϕ TOP		17	⅜" ϕ @ 12" O.C.		Do
			2	⅜" ϕ	BT						
B214	(VAR.) T 40		4	1" □	STR	HOOK ENDS.		17	½" ϕ	1@3 2@6 3@10	
			4	1" ϕ	BT						
B215	12 x 11		2	⅜" ϕ	STR			7	⅜" ϕ	1@3 3@6	
			2	⅜" ϕ	BT						
L200	8-4½L x 26 T 40		2	⅞" ϕ	STR			6	½" ϕ	1@3 5@12	
			2	⅞" ϕ	BT						
L201	8-18 x 26 T 24		2	1½" □	STR			11	½" ϕ	1@3 2@6 6@12 10@12	Do
			2	1" □	BT						
L202	10-12 x 24 T 20		2	1" ϕ	STR			9	½" ϕ	1@3 4@6 10@12	Do
			2	1" ϕ	BT						
L203	8-14-4½L x 26 T 20	SAME AS L200	2	1" □	STR			8	⅜" ϕ	1@3 7@12	Do
			1	1" ϕ	BT						
L204	8-14-4½L x 26 T 12	Do	2	⅞" ϕ	STR		Do	6	⅜" ϕ	1@3 5@12	Do
			2	½" ϕ	BT						
L205	8-14-4½L x 26 T 12	Do	2	½" ϕ	STR		Do	6	⅜" ϕ	1@3 5@12	Do
			2	½" ϕ	BT						
L206	8-18 x 26 T 16	SAME AS L201	2	⅝" ϕ	STR			6	½" ϕ	1@3 4@6 5@12	Do
			1	⅝" ϕ	BT						
			1	⅝" ϕ	BT						
L207	12 x 26 T 32		2	1½" □	STR		Do	10	½" ϕ	1@3 4@6 2@12	Do
			2	1" □	BT						
L208	(VAR.) T 18		2	1" □	STR	3-1'0 x 8'0" TOP CENTER ON B213		10	½" ϕ	1@3 3@6 6@12	
			2	1" □	BT						
L209	10 x 18		2	⅜" ϕ	STR			6	⅜" ϕ	1@3 5@8	
			1	⅜" ϕ	ST						
L210	8-10 x 32½		2	⅞" ϕ	STR	2-½" ϕ TOP		7	⅜" ϕ	1@3 3@12	
			1	⅜" ϕ	BT						
L211	8-20 T 11½		2	⅞" ϕ	STR	2 ½" ϕ TOP		4	⅜" ϕ	1@3 3@10	
			1	⅜" ϕ	BT						

PROVIDE ½"ϕ x 2'-6" [ ] @ 12"O.C. CANTILEVER BARS IN TOP OF SPANDRELS WITH CONCRETE LUGS SUPPORTING WALLS ABOVE.

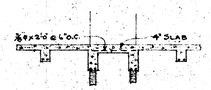
· SCHOOL OF MUSIC ·
· FOR INDIANA UNIVERSITY ·
ROBERT FROST DAGGETT-ARCHITECT
922 ELECTRIC BLDG. INDIANAPOLIS, INDIANA

DRAWN BY	2ND FLOOR FRAMING PLAN	SHEET No. S4 OF 7 SHEETS
TRACED BY		
CHECKED BY		DATE 11-7-35
PROJECT NUMBER 3503		SCALE ⅛"=1'-0"



SLAB SCHEDULE

MARK	CONCRETE TYPE	REINFORCING STEEL NO.	SIZE	TYPE	REMARKS
J300	10+2½ TAP.	1	1"□	STR	
		1	1"□	BT.	
J301	6+2½ TAP.	1	1"Φ	STR	JOINT AT 12'-0" SPACES 12½" DEEP
		1	1"Φ	BT	
J302	6+2½ TAP	1	⅞"Φ	STR	Do
		1	⅞"Φ	BT	
J303	6+2½ TAP.	1	1"Φ	STR	Do
		1	⅞"Φ	BT	
J304	6+2½ TAP.	1	1"Φ	STR	Do
		1	1"Φ	BT	
J305	6+2½ STR.	1	⅞"Φ	STR	
		1	⅞"Φ	BT	
SJD6	4½ SOLID	1½"Φ @ 6" AT BT			
		⅜"Φ @ 18			
SJ07	4" SOLID	⅜"Φ @ 6"			
		⅜"Φ @ 18			



SECTION THRU CORRIDOR DOORS

BEAM SCHEDULE

MARK	CONCRETE SIZE	SECTION	REINFORCING STEEL NO.	SIZE	TYPE	REMARKS	BENDING	STIRRUPS EACH END NO.	SIZE	SPACING	TYPE
B300	14×20 T 38		4	1"□	STR	HOOK ENDS		15	½"Φ	6@3, 8@5, 3@8, 2@10	
			4	1"□	BT						
B301	12×20	Do.	2	⅞"Φ	STR			4	⅜"Φ	18@3 3@8	Do.
			2	⅞"Φ	BT						
B302	12×16	Do	2	⅞"Φ	STR			4	⅜"Φ	18@3 3@8	Do.
			2	⅞"Φ	BT						
B303	12×20 T 20	Do	2	1"□	STR	HOOK ENDS.		7	⅜"Φ	18@3 3@8	Do.
			2	1"□	BT						
B304	12×20 T 18		2	1"Φ	STR	HOOK ENDS.		10	⅜"Φ	18@3 3@8	
			2	1"Φ	BT						
B305	12×16	Do.	2	⅞"Φ	STR			8	⅜"Φ	18@3 3@8	Do.
			2	⅞"Φ	BT						
B306	12-30 T 26	Do.	3	1"□	STR	HOOK ENDS. 4-1"□ IN TOP		13	⅜"Φ	2@3 2@5 2@8 7@10	
			3	1"□	BT						
B307	10×24 T 6	Do	2	1"Φ	STR			13	⅜"Φ	18@3 3@8	Do.
			2	1"Φ	BT						
B308	10'-6" x 24 T 16	Do	2	1"Φ	STR	HOOK ENDS		15	⅜"Φ	2@3 2@5 2@8 7@10	Do.
			2	1"Φ	BT						
B309	10×24 T 14	Do	1	⅞"□	STR			10	⅜"Φ	2@3 2@5 2@8 6@10	Do.
			2	⅞"□	BT						
B310	12×16 T 16	Do	2	⅞"Φ	STR			5	⅜"Φ	18@3 3@8	Do.
			2	⅞"Φ	BT						
B311	8×12	Do.	2	½"□	STR						
			1	½"□	BT						
B312	0-18 T 8	Do.	2	1"Φ	STR			6	⅜"Φ	18@3 3@8	Do.
			1	1"Φ	BT						
B313	10×30	Do	2	1"□	STR	2-¾"Φ TOP.		17	½"Φ	8@2 2@4	Do.
			2	¾"□	BT						
B314	16×20 T 48		4	1"□	STR	HOOK ENDS		17	½"Φ	2@3 2@5 2@8 6@10	
			4	1"□	BT						
L300	8'-11½" x 26 T 16		2	1"Φ	STR			7	½"Φ	18@3 6@10	
			2	1"Φ	BT						
L301	8'-11½" x 26 T 22		3	1"□	STR			11	½"Φ	18@3 8@8 2@10	Do.
			2	1"□	BT						
L302	8'-11½" x 26 T 18	SAME AS L300	3	1"Φ	STR	HOOK ENDS		8	⅜"Φ	18@3 7@13½	Do.
			2	1"□	BT						
L303	8'-11½" x 26 T 16	Do	2	⅞"Φ	STR			6	⅜"Φ	18@3 5@12	Do.
			2	⅞"Φ	BT						
L304	8'-11½" x 26 T 16	Do.	2	⅞"Φ	STR			6	⅜"Φ	18@3 5@12	Do.
			2	⅞"Φ	BT						
L305	8'-11½" x 26 T 12	SAME AS L301	2	⅞"Φ	STR		Do	5	⅜"Φ	18@3 4@12	Do.
			2	⅞"Φ	BT						
L306	12×26 T 22		3	1"□	STR	HOOK ENDS	Do	10	⅜"Φ	18@3 2@5 2@8 6@12	
			3	1"□	BT						
L307	12×30 T 18		2	1"□	STR	3-1"Φ x 8'-0 TOP CENTER ON B312		10	½"Φ	18@3 2@5 6@12	
			2	1"□	BT						
L308	8×26		2	¾"Φ	STR			4	⅜"Φ	18@3 3@8	
			1	¾"Φ	BT						
L309	12×20		2	¾"Φ	STR	2-¾"Φ TOP.		4	⅜"Φ	18@3 3@8	
			2	¾"Φ	BT						
L310	8×26	SAME AS L308	2	¾"Φ	STR			5	⅜"Φ	18@3 4@8	
			1	¾"Φ	BT						
L311	12×12		2	¾"Φ	STR			4	⅜"Φ	18@3 3@6	Do.
			1	¾"Φ	BT						

PROVIDE ⅝"Φ x 2'-6" @ 12" O.C. CANTILEVER BARS IN TOP OF ALL SPANDRELS WITH CONCRETE LUGS SUPPORTING WALLS ABOVE.

SCHOOL OF MUSIC
FOR INDIANA UNIVERSITY
ROBERT FROST DAGGETT ARCHITECT
922 ELECTRIC BLDG. INDIANAPOLIS, INDIANA

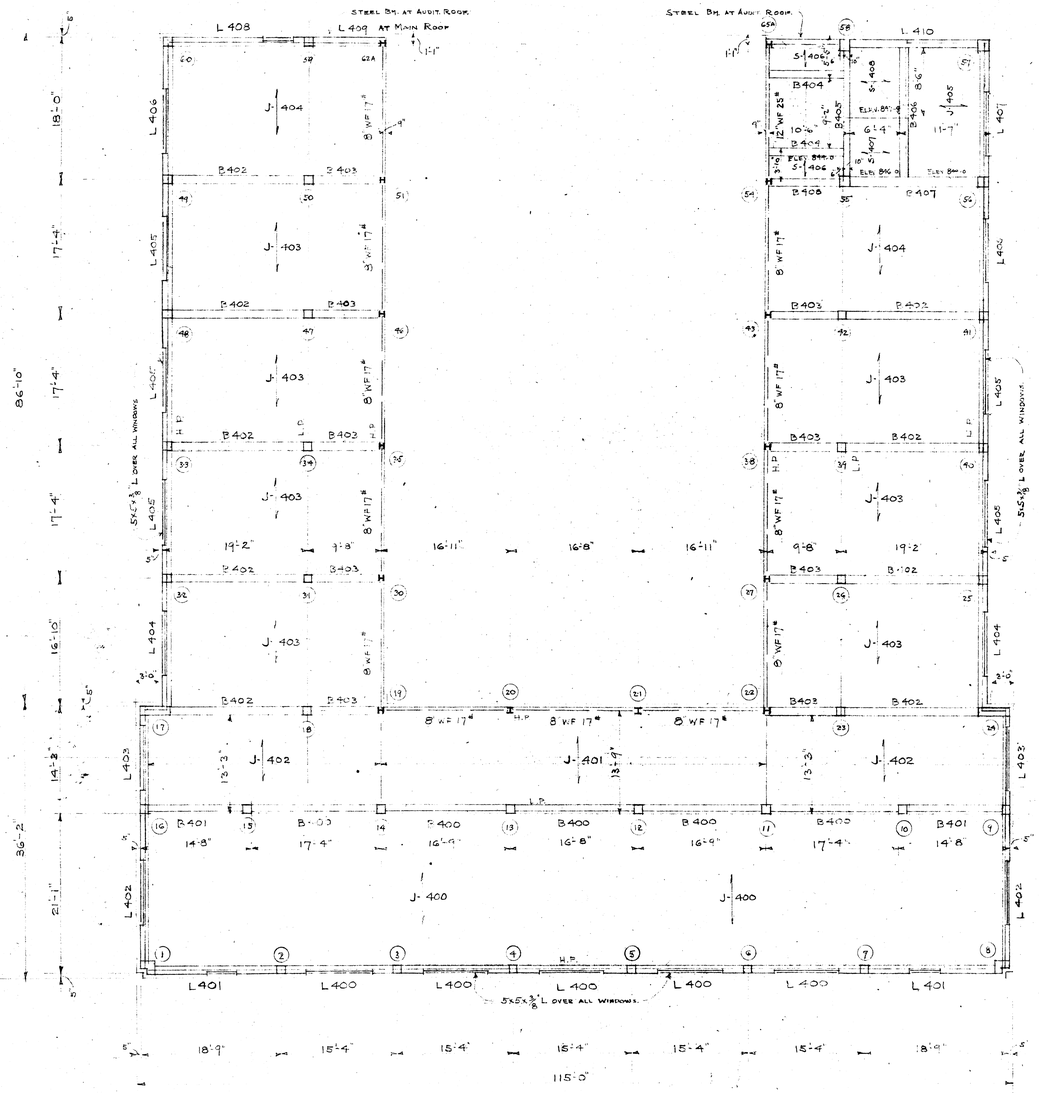
DRAWN BY		
TRACED BY		
CHECKED BY		
PROJECT NUMBER	3503	3RD. FLOOR FRAMING PLAN
SHEET No.		S5 OF 7 SHEETS
DATE		11-7-35
SCALE		¼"=1'-0"

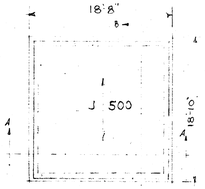
SLAB SCHEDULE

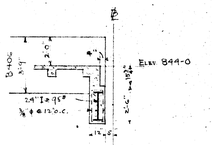
MARK	CONCRETE TYPE	REINFORCING STEEL NO.	SIZE	TYPE	REMARKS
J400	6+2½ TAP	1	⅝ ϕ	STR	
		1	½ ϕ	BT	
J401	6+2½ TAP	1	⅝ ϕ	STR	
		1	½ ϕ	BT	
J402	6+2½ TAP	1	⅝ ϕ	STR	
		1	½ ϕ	BT	
J403	6+2½ TAP	1	⅝ ϕ	STR	
		1	½ ϕ	BT	
J404	6+2½ TAP	1	⅝ ϕ	STR	
		1	½ ϕ	BT	
J405	6+2½	1	⅝ ϕ	STR	
		1	½ ϕ	BT	
S400	4" SOLID	⅜ ϕ @ 8" O.C.			
		⅜ ϕ @ 12" O.C.			
S407	4" SOLID	½ ϕ @ 8" O.C.			
		⅜ ϕ @ 8" O.C.			
S408	4" SOLID	½ ϕ @ 8" O.C.			
		½ ϕ @ 8" O.C.			
S500	6+2½	1	⅝ ϕ	STR	
		1	⅝ ϕ	BT	

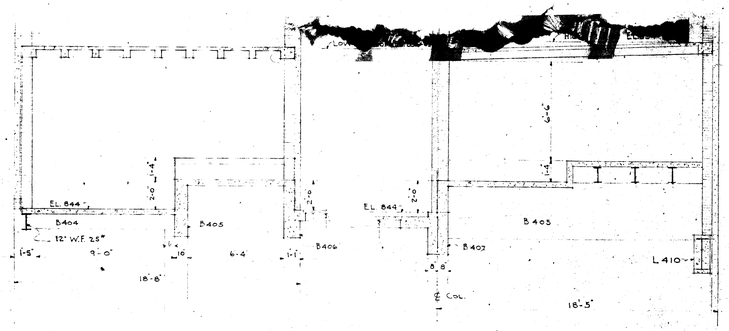
BEAM SCHEDULE

MARK	CONCRETE SIZE	CONCRETE SECTION	REINFORCING STEEL NO.	SIZE	TYPE	REMARKS	BENDING	STIRRUPS EACH END NO.	SIZE	SPACING	TYPE
B400	10×18 T20		2	⅞ ϕ	STR			11	⅜ ϕ	1@3 3@4 4@5 3@7	
			2	⅞ ϕ	BT						
B401	10×16 T20	Do.	2	⅞ ϕ	STR			9	⅜ ϕ	1@3 4@4 4@8	Do.
			1	⅞ ϕ	BT						
B402	12×16 T34	Do.	2	□	STR			15	⅜ ϕ	5@3 3@4 4@6 3@8	Do.
			2	□	BT						
B403	12×16	Do.	2	⅞ ϕ	STR			4	⅜ ϕ	1@3 3@7	Do.
			2	⅞ ϕ	BT						
B404	24×[illegible]		2	⅞ ϕ	STR			4	⅜ ϕ	1@3 5@8	
			2	⅞ ϕ	BT						
B405	12×[illegible]		2	⅞ ϕ	STR	HOOK ENDS IN TOP.			⅜ ϕ @ 12" O.C.		
			1	⅞ ϕ	BT						
B406	8½ x 45°		3	□	STR	HOOK ENDS IN TOP.		12	⅝ ϕ	1@3 3@4 3@5 3@6	Do.
			2	⅞ ϕ	STR						
			2	⅞ ϕ	BT						
B407	16×33 T38		3	□	STR	HOOK ENDS IN TOP.		16	⅝ ϕ	1@3 4@5 3@6 8@8	Do.
			2	⅞ ϕ	STR						
			4	□	BT						
B408	12×16		2	⅞ ϕ	STR			7	⅜ ϕ	1@3 4@6 3@8	Do.
			2	⅞ ϕ	BT						
L400	7.8#/ft. ×34ft.		2	⅞ ϕ	STR	CONT. IN BOT. LAP 24"			⅜ ϕ @ 12" O.C.		
			2	⅞ ϕ	STR	CONT. IN TOP Do. Do.					
			1	⅞ ϕ	STR	HOR. EACH FACE					
L401	7.8#/ft. ×34ft.	Do.	2	⅞ ϕ	STR	BOT.			⅜ ϕ @ 12" O.C.		Do.
			2	⅞ ϕ	STR	TOP CONT.					
L402	7.8#/ft. ×34ft.	Do.	1	⅞ ϕ	STR	HOR. EACH FACE			⅜ ϕ @ 12" O.C.		Do.
			2	⅞ ϕ	STR	BOT.					
L403	7.8#/ft. ×34ft.	Do.	2	⅞ ϕ	STR	BOT. CONT.			⅜ ϕ @ 12" O.C.		Do.
			2	⅞ ϕ	STR	TOP CONT.					
			1	⅞ ϕ	STR	EACH FACE					
L404						SAME AS L403.					
L405						Do.					
L406						Do.					
L407	[illegible]	Do.	1	⅞ ϕ	STR	BOT.			⅜ ϕ @ 12" O.C.		Do.
			2	⅞ ϕ	STR	BOT.					
			2	⅞ ϕ	STR	TOP CONT.					
			1	⅞ ϕ	STR	EACH FACE					
L408	8½ x 34½	Do.	2	⅞ ϕ	STR	BOT.			⅜ ϕ @ 12" O.C.		Do.
			2	⅞ ϕ	STR	TOP.					
			1	⅞ ϕ	STR	EACH FACE					
L409	7.8#/ft. ×34ft.	Do	2	⅞ ϕ	STR	BOT.			⅜ ϕ @ 12" O.C.		Do.
			2	⅞ ϕ	STR	TOP					
			1	⅞ ϕ	STR	EACH FACE					
L410			24	I ϕ 95#					⅜ ϕ @ 12" O.C.		









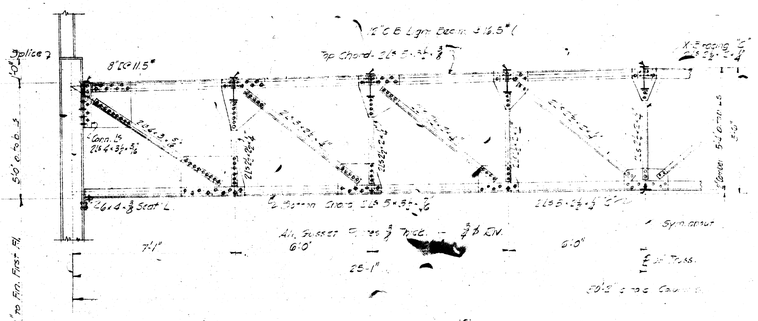
SCHOOL OF MUSIC
FOR INDIANA UNIVERSITY
ROBERT FROST DAGGETT-ARCHITECT
932 ELECTRIC BLDG. INDIANAPOLIS, INDIANA

DRAWN BY
TRACED BY
CHECKED BY
PROJECT NUMBER 3505

R&C F.

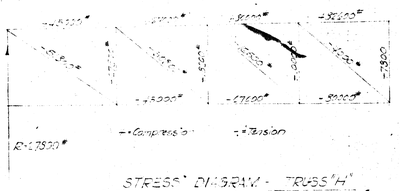
FLANKING PLAN

SHEET No. S-2
OF 7 SHEETS
DATE 11-15-35
SCALE ⅛"=1'0"

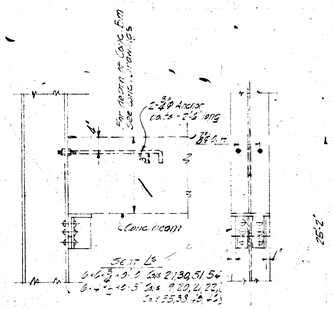


DETAIL OF ONE HALF OF TRUSS MARK "H"
Scale ⅜"=1'0"

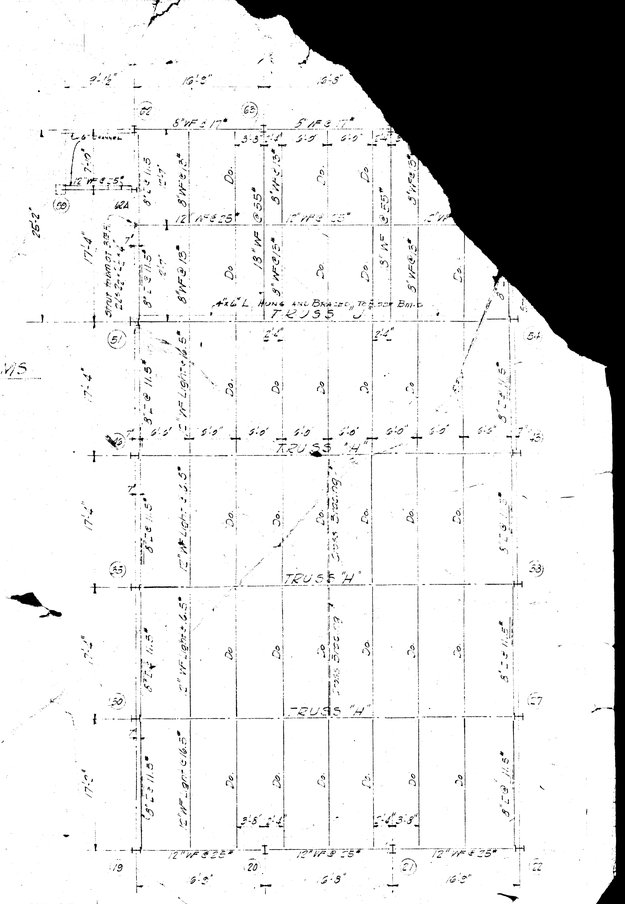
NOTE
⅞" ϕ Holes in horizontal flange of all purlins 4'0" c/c
Top of Purlins to be ½" above top chord of Truss.



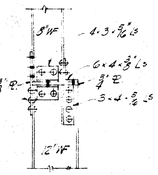
STRESS DIAGRAM - TRUSS "H"



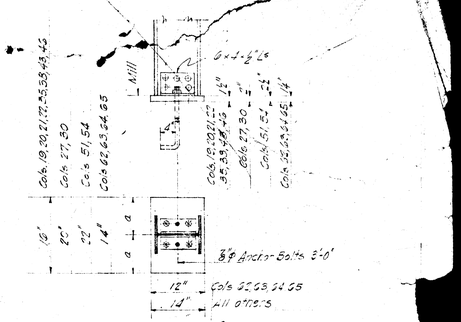
TYPICAL SEAT FOR JOINTS
Note! Use similar detail where girders connect into columns webs



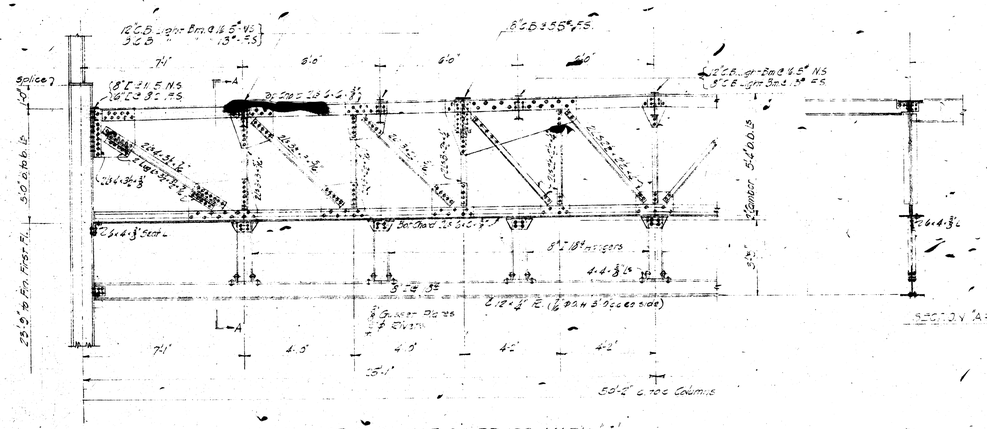
AUDITORIUM ROOF FRAMING PLAN
Scale ⅛"=1'0"



DETAIL OF COLUMN SPLICE AT AUDITORIUM ROOF LINE
Scale ⅜"=1'0"



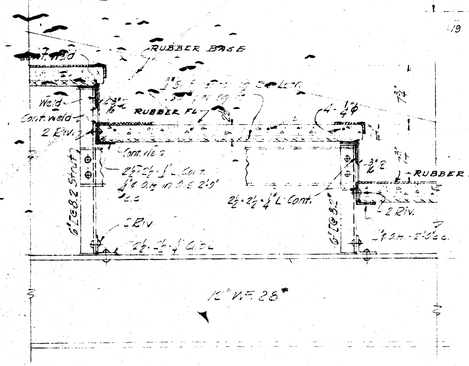
COLUMN BASES



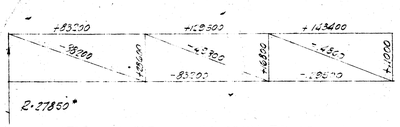
DETAIL OF ONE HALF OF TRUSS MARK "J"
Scale ⅜"=1'0"

SECTION "A-A"

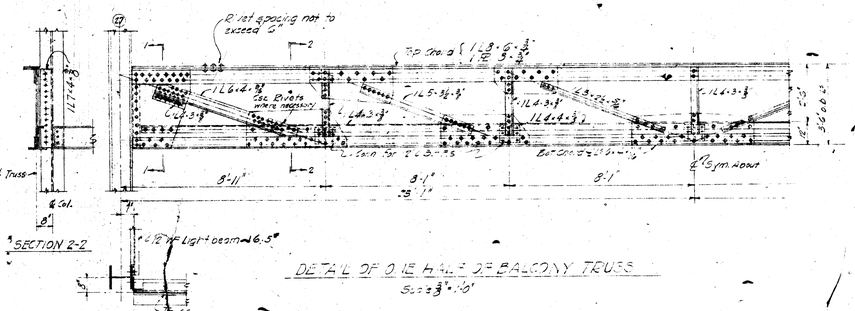
NOTES
Joints in ⅜" plate girder to be welded and ground flush on face. Also weld 6" wide splice plate on back.
Weld splices in continuous angles



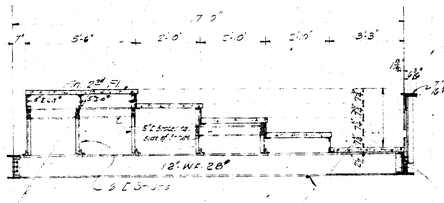
TYPICAL DETAIL FOR BALCONY STEPS
Scale 1½"=1'0"



STRESS DIAGRAM - BALCONY TRUSS



DETAIL OF ONE HALF OF BALCONY TRUSS
Scale ⅜"=1'0"



SECTION
TYPICAL BALCONY TRUSS

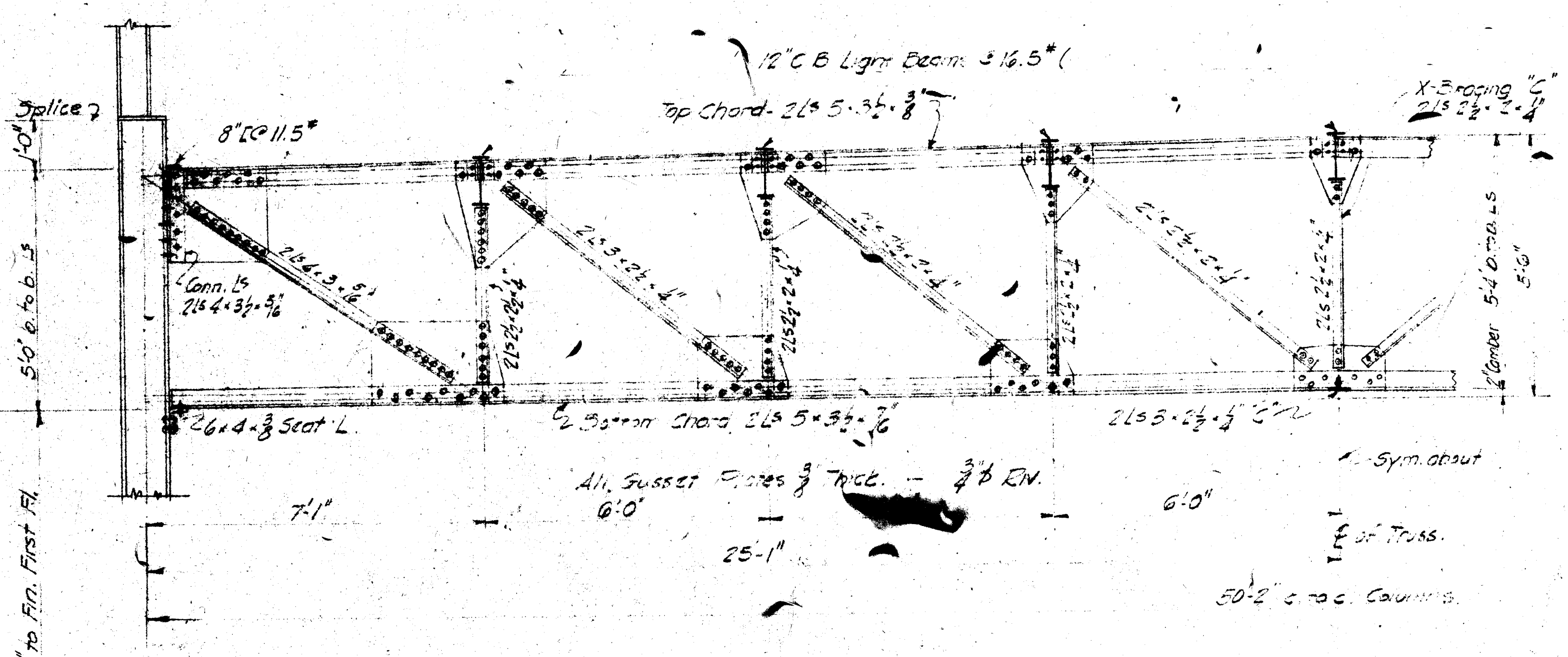
Notes:
For Use of 4-18" C.I. Manhole Covers & Rings for Basmt. Fl. Placed As Directed
All Trusses Temporarily Braced Until Permanently Secured

SCHOOL OF MUSIC
FOR INDIANA UNIVERSITY
ROBERT FROST DAGGETT ARCHITECT
922 ELECTRIC BLDG. INDIANAPOLIS, INDIANA

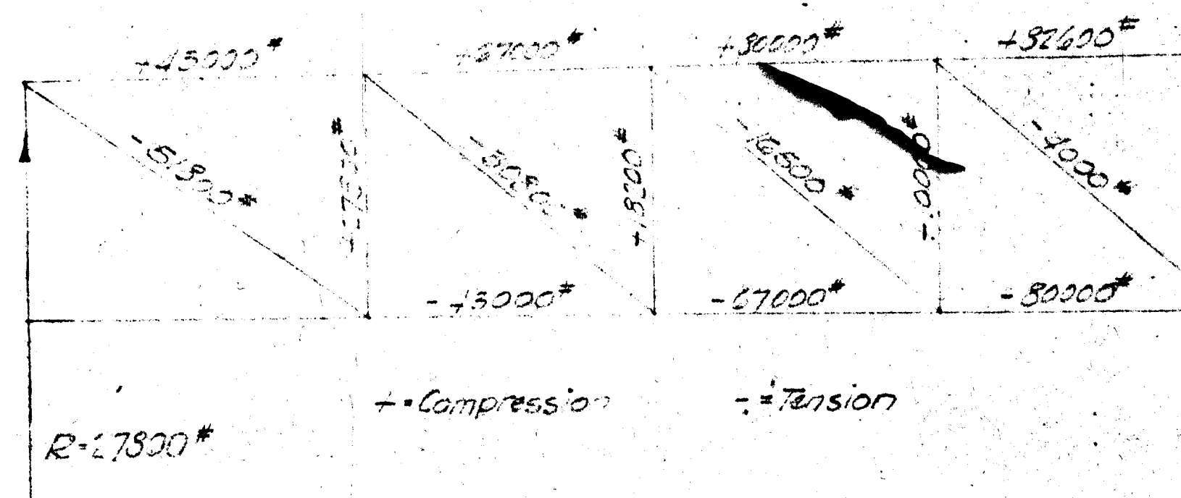
DRAWN BY
TRACED BY
CHECKED BY
PROJECT 3503

STRUCTURAL STEEL PLAN

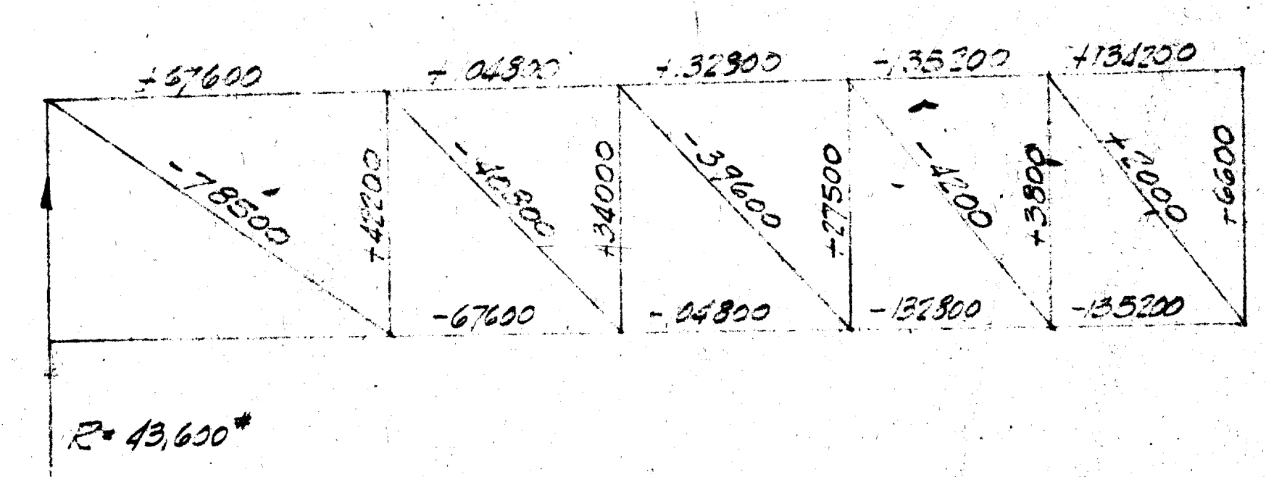
SHEET No. 37
OF 17 SHEETS
DATE 11-7-
SCALE



DETAIL OF ONE HALF OF TRUSS MARK "H"
Scale 3/8"=1'-0"

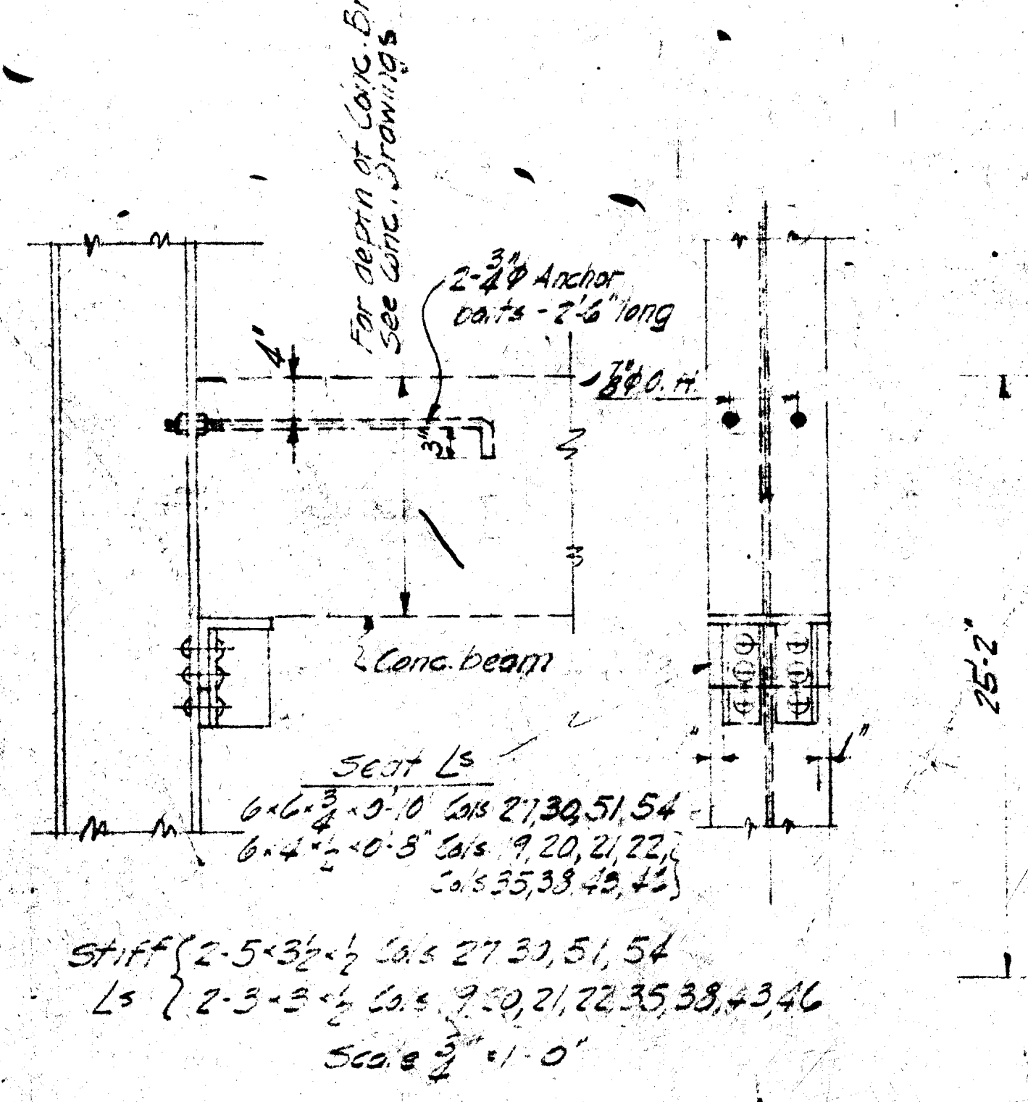


STRESS DIAGRAM - TRUSS "H"



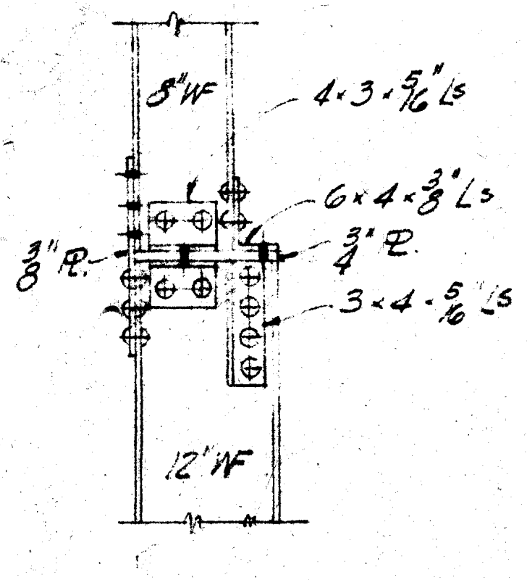
STRESS DIAGRAM - TRUSS "J"

NOTE
5/16"ɸ Holes in bottom flange of all purlins 4'0" c.c.
Top of Purlins to be 3/8" above top chord of Truss.

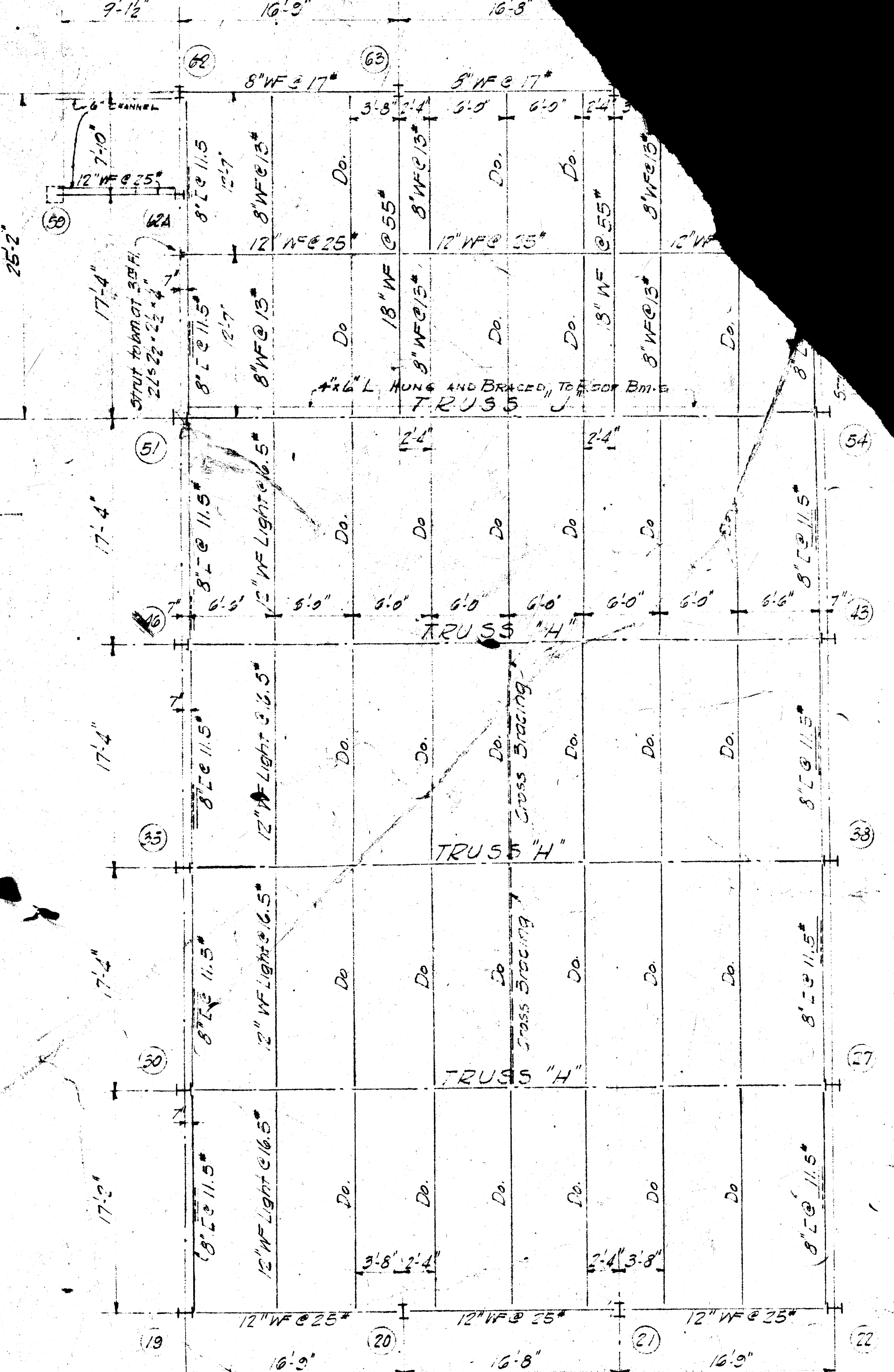


TYPICAL SEAT FOR CONC. BEAMS

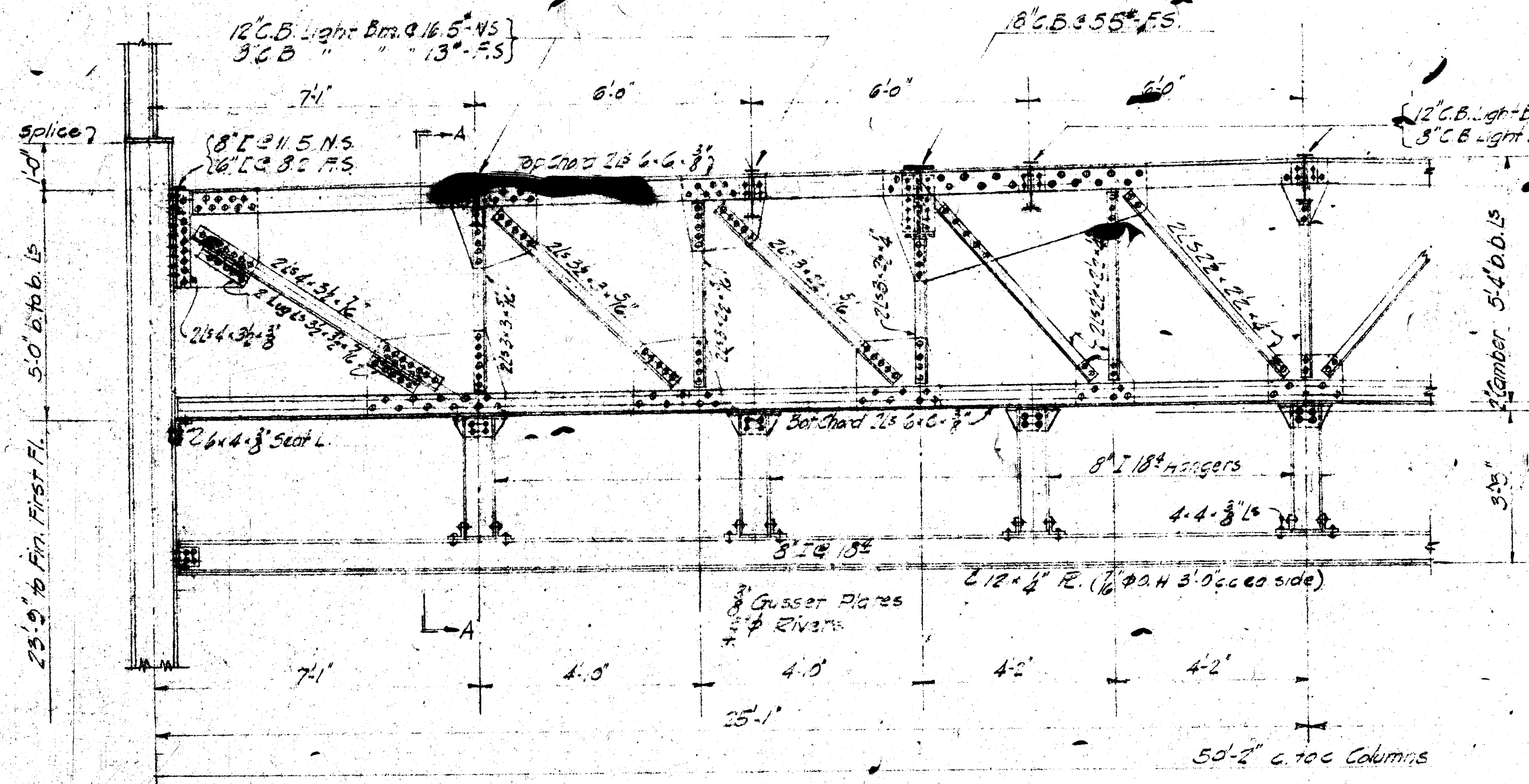
Note! Use similar detail where conc. bms. frame into Column webs.



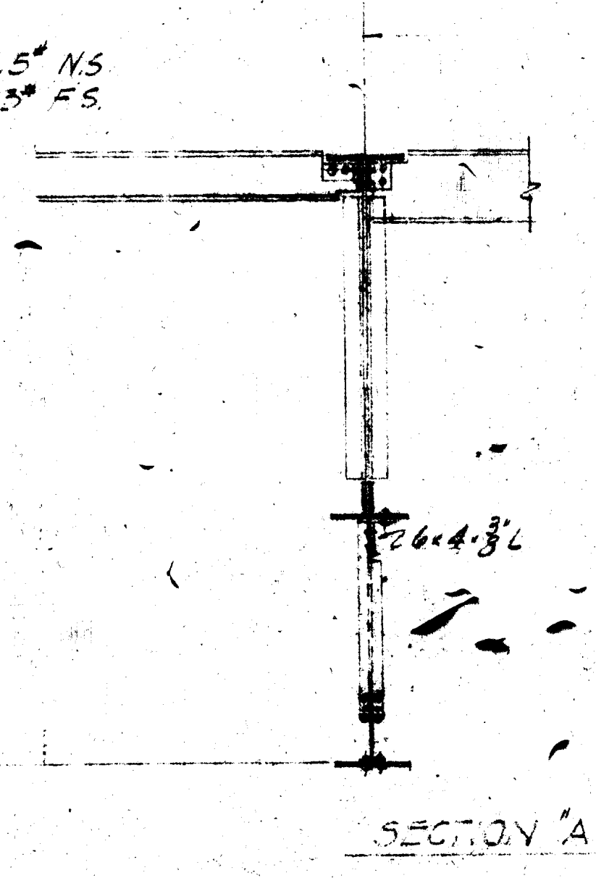
DETAIL OF COLUMN SPLICE AT AUDITORIUM ROOF LINE
Scale 3/4"=1'-0"



AUDITORIUM ROOF FRAMING PLAN
Scale 1/8"=1'-0"

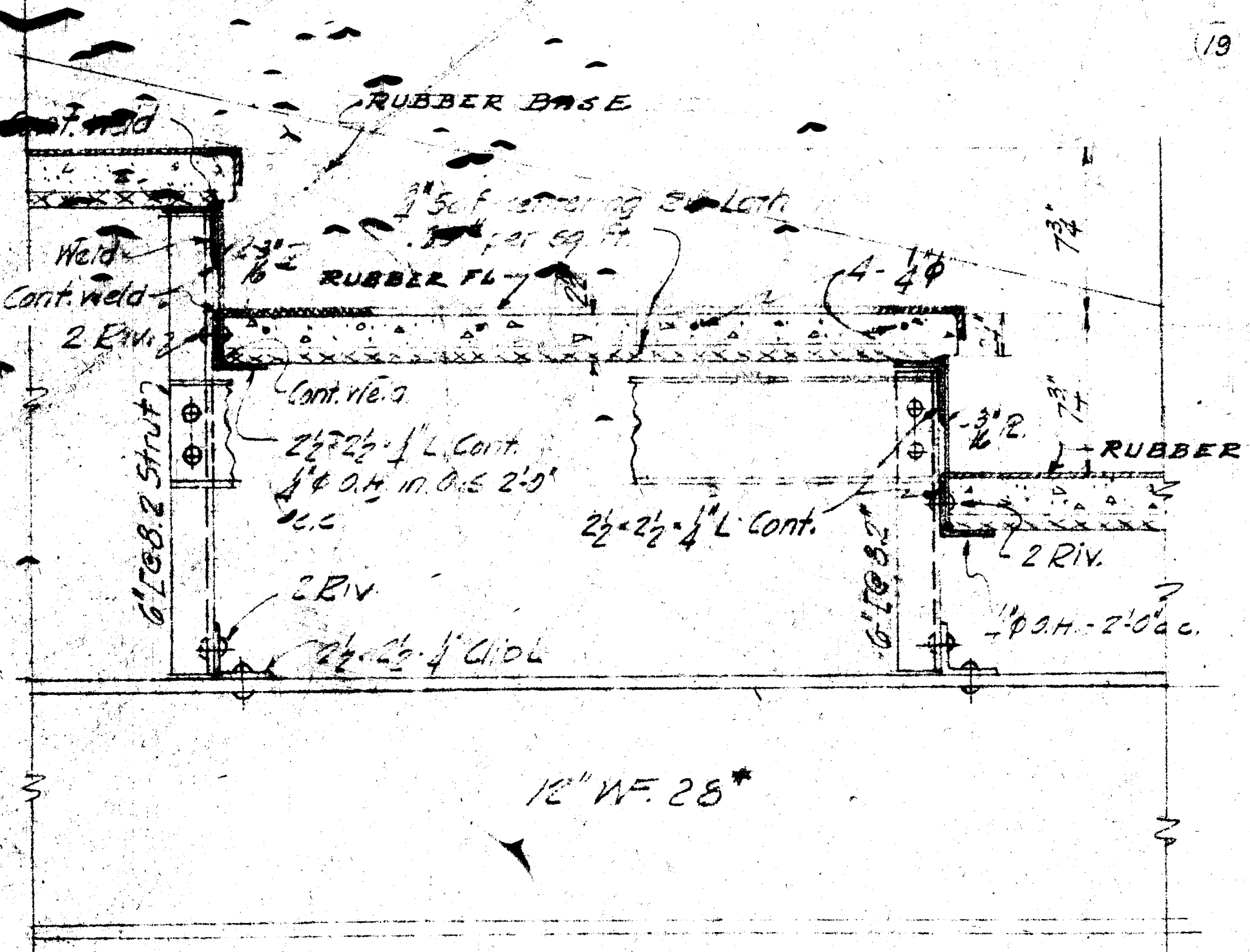


DETAIL OF ONE HALF OF TRUSS MARK "J"
Scale 3/8"=1'-0"

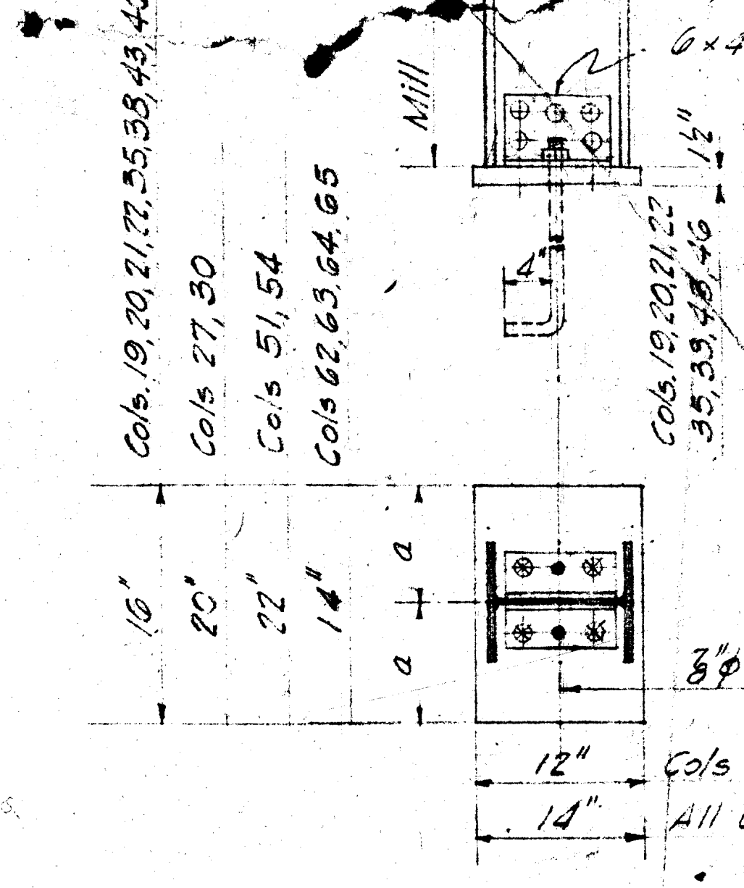


SECTION "A-A"

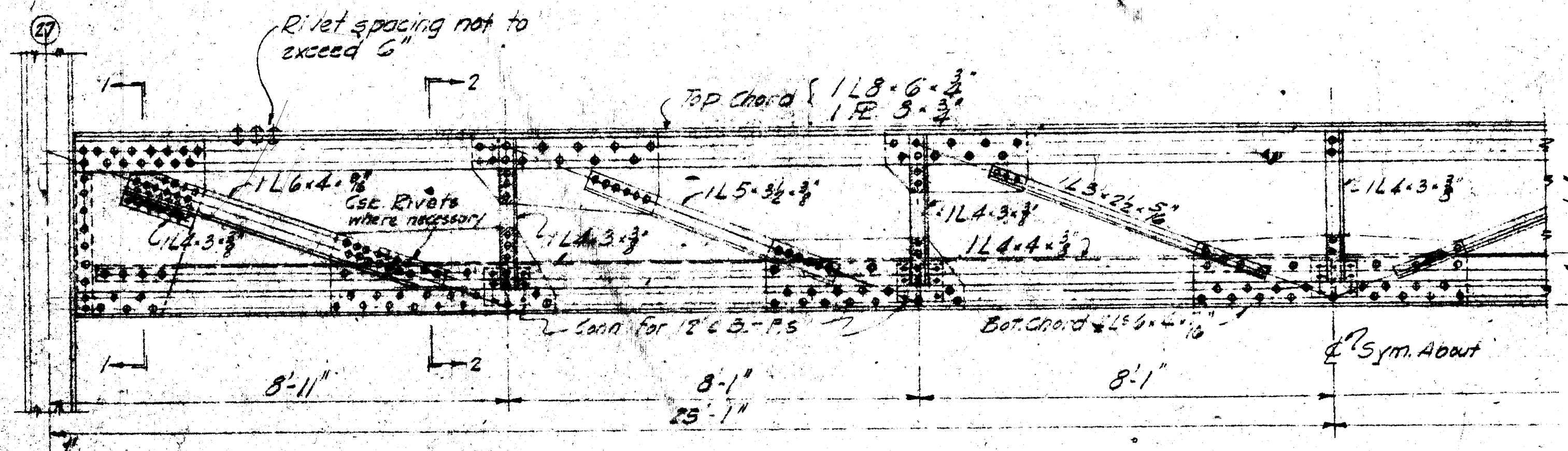
Notes
Joints in 3/16" plate riser to be welded and ground flush on face. Also weld 6" wide splice plate on back.
Weld splices in continuos angles

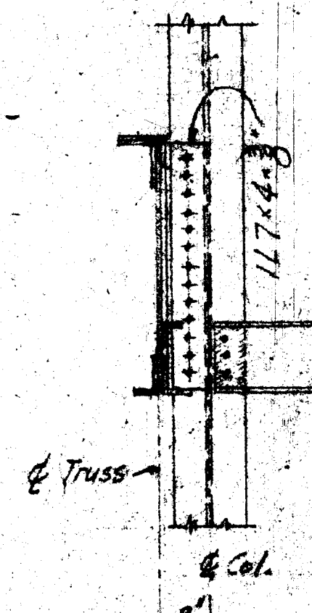


TYPICAL DETAIL FOR BALCONY STEPS
Scale 1½"=1'0"



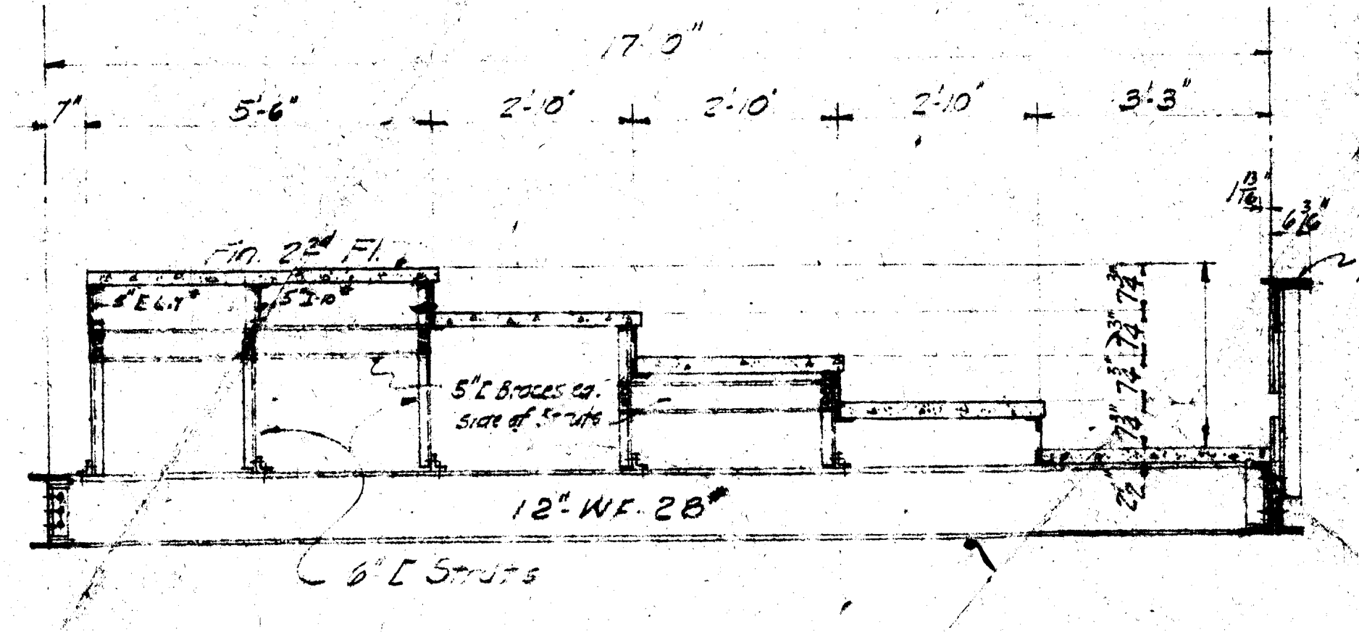
COLUMN BASES



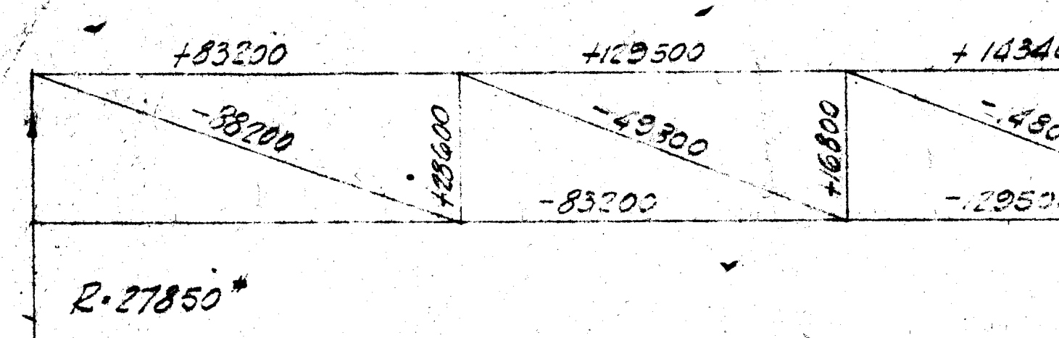


SECTION 2-2

DETAIL OF ONE HALF OF BALCONY TRUSS
Scale 3/8"=1'-0"



SECTION 1-1
TYPICAL SECTION THRU BALCONY

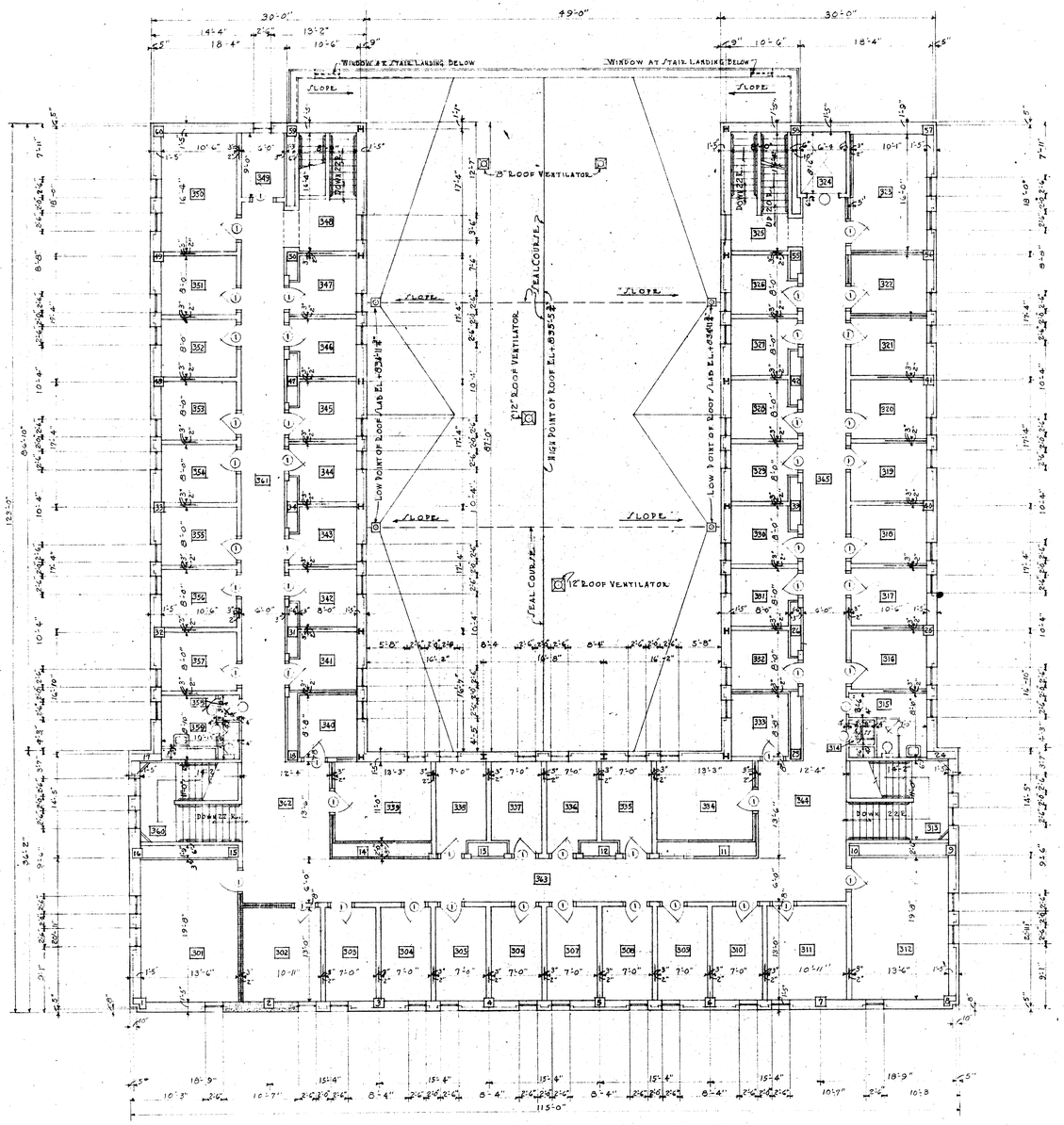


STRESS DIAGRAM - BALCONY TRUSS

Note:
Furnish 4-18" C.I. Manhole Covers
& Rings for Basmt. Fl.
Placed As Directed
All trusses to be one piece trusses.

·SCHOOL·OF·MUSIC·
·FOR·INDIANA·UNIVERSITY·
ROBERT FROST DAGGETT·ARCHITECT
922 ELECTRIC BLDG. INDIANAPOLIS, INDIANA

DRAWN BY TRACED BY CHECKED BY	STRUCTURAL STEEL PLAN	SHEET No. 37 OF 17 SHEETS
PROJECT NUMBER 3503		DATE 11-7-3 SCALE

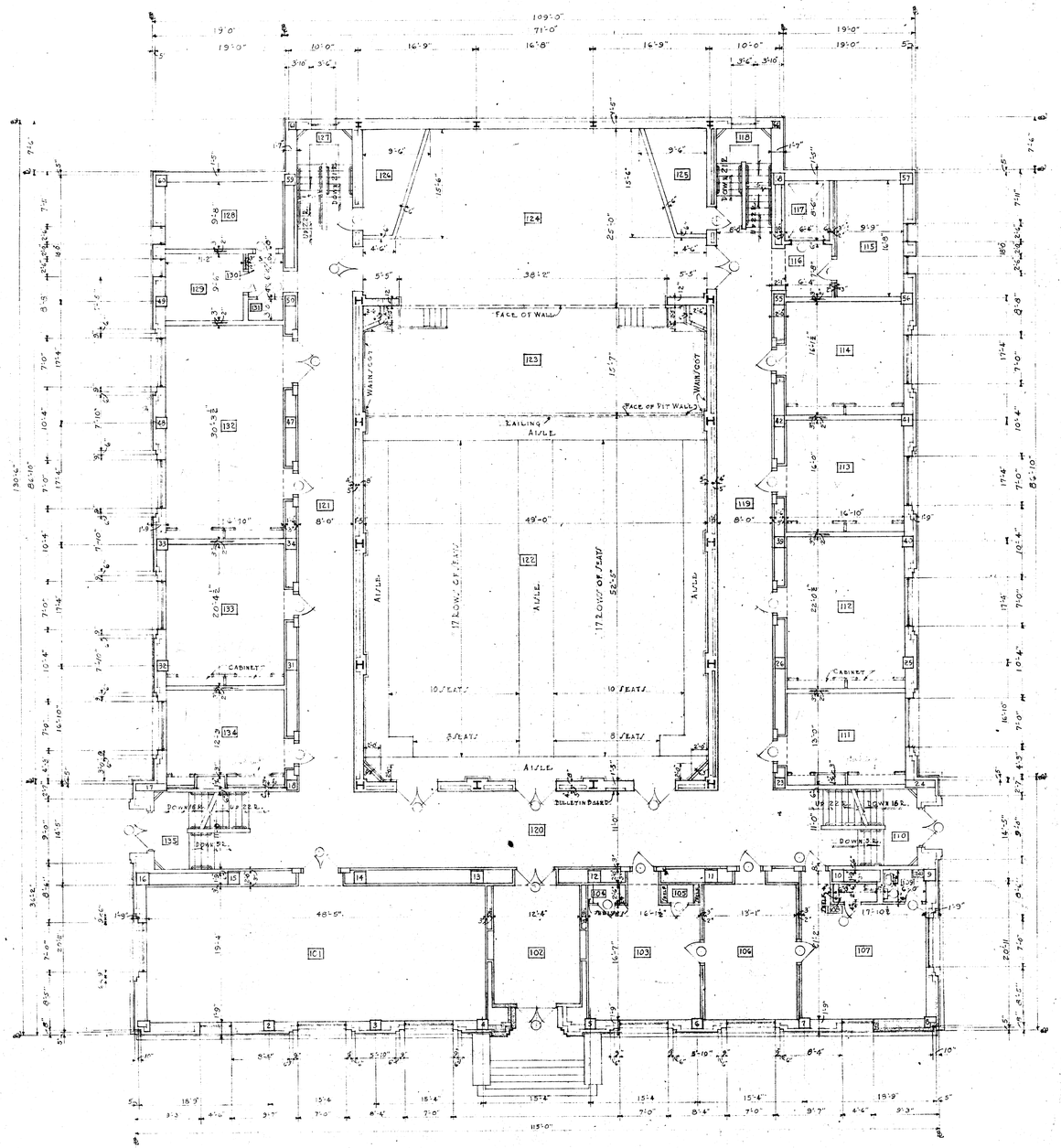


ROOM SCHEDULE

No	NAME	FLOOR	BASE	WALLS	CEILING		REMARKS
301 to 312	PRACTICE ROOM	CORK	WOOD	PLASTER	SUSP. PLASTER	— AC. TR.	
313	STAIR HALL	QUARRY TILE	MARBLE	DO.	DO.	DO. —	
314	JANITOR CLOSET	DO. DO.	QUARRY TILE	DO.	DO.	DO. —	
315	BOYS' TOILET	CER. TILE	MARBLE	DO.	DO.	DO. —	MARBLE WAINSCOT
316 to 323	PRACTICE ROOMS	CORK	WOOD	DO.	DO.	DO. — AC. TR.	
324	ELEVATOR	—	—	—	—	— —	
325	STAIR HALL	QUARRY TILE	MARBLE	PLASTER	SUSPPLASTER	— —	
326 to 347	PRACTICE ROOMS	CORK	WOOD	DO.	DO.	DO. — AC. TR.	
348	STAIR HALL	QUARRY TILE	MARBLE	DO.	DO.	DO. —	
349 to 357	PRACTICE ROOMS	CORK	WOOD	DO.	DO.	DO. — AC. TR.	
358	ENTRY	QUARRY TILE	MARBLE	DO.	DO.	DO. —	
359	GIRLS' TOILET	CER. TILE	DO.	DO.	DO.	DO. —	MARBLE WAINSCOT
360	STAIR HALL	QUARRY TILE	DO.	DO.	DO.	DO. —	
361 to 365	CORRIDOR	DO. DO.	DO.	DO.	DO.	DO. —	AC. TR.

NOTE:—AC. TR. INDICATES ACOUSTICAL TREATEMENT

THIRD FLOOR PLAN
Scale 1/8"=1'-0"

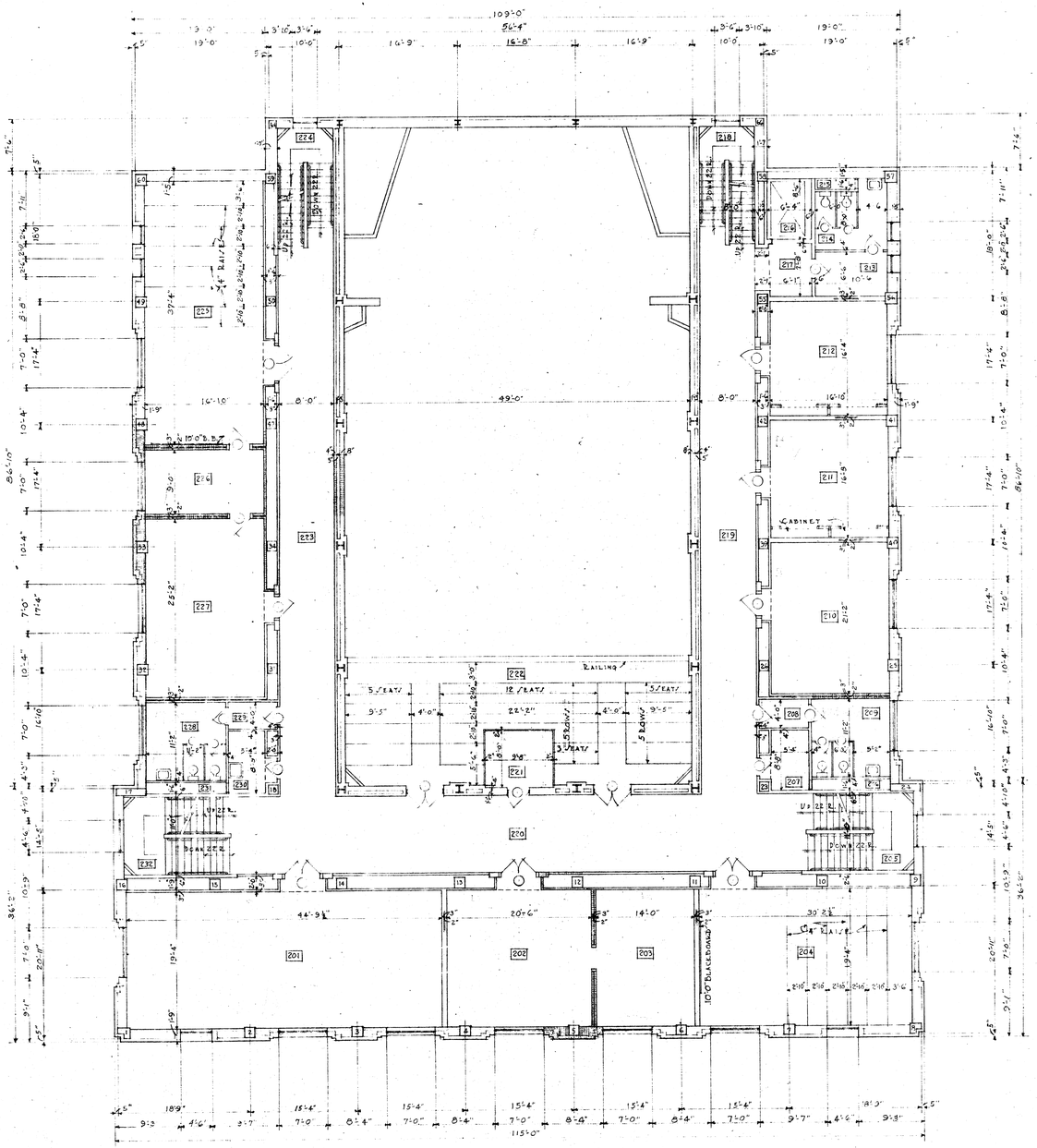


· FIRST · FLOOR · PLAN ·
SCALE 8'-1'-0"

· ROOM · SCHEDULE ·

Nº	NAME	FLOOR	BASE	WALLS	CEILING		REMARKS
101	STUDENT STUDY AND LOUNGE	CORK TILE	WOOD	PLASTER	SUSP PLASTER	S.I.	—
102	ENTRANCE LOBBY	MARBLE	MARBLE	MARBLE	Do. Do.	—	—
103	SECRETARY	CORK TILE	WOOD	PLASTER	Do Do	S.I.	—
104-105	CLOSET	Do.	Do.	Do.	Do. Do.	—	—
106	DEAN'S OFFICE	Do.	WOOD	Do.	Do. Do.	S.I.	— WOOD WAIN/COT
107	" STUDIO	Do.	Do.	Do.	Do. Do.	S.I.	AC. TR.
108	CLOSET	Do.	Do.	Do	Do. Do.	S.I.	—
109	TOILET	CER. TILE	MARBLE	Do.	Do. Do.	S.I.	—
110	STAIR HALL	QUARRY TILE	Do.	Do.	PLASTER	—	—
111	CLERK'S OFFICE	CORK TILE	WOOD	Do.	SUSP PLASTER	S.I.	—
112 to 114	STUDIO	Do	Do.	Do	Do Do.	S.I.	AC. TR.
115	ORCHESTRA CHOIR LIBRARY	Do.	Do.	Do	Do. Do.	—	—
116	ELEVATOR ENTRANCE	QUARRY TILE	MARBLE	Do	Do. Do.	—	—
117	ELEVATOR	——	——	——	——	—	—
118	STAIR HALL	QUARRY TILE	MARBLE	PLASTER	PLASTER	—	—
119 to 121	CORRIDOR	Do.	Do.	Do.	SUSP PLASTER	S.I.	—
122	AUDITORIUM	RUBBER	WOOD	Do.	Do. Do.	—	— WOOD WAIN. COT AC. TR ON WALLS
123	ORCHESTRA PIT	WOOD	Do.	Do.	Do. Do.	—	— WOOD WAIN/COT-AC TR ON WALLS
124	STAGE	Do.	Do.	Do.	Do Do.	—	— WOOD WAIN/COT AC TR ON WALLS
125-126	ORGAN ROOM	CEMENT	CEMENT	Do.	Do. Do.	—	—
127	STAIR HALL	QUARRY TILE	MARBLE	Do.	PLASTER	—	—
128	INSTRUMENT ROOM	CORK TILE	WOOD	Do.	SUSP PLASTER	S.I.	—
129	STUDIO	Do	Do.	Do.	Do. Do.	S.I.	AC. TR.
130	ENTRY	QUARRY TILE	MARBLE	Do.	Do. Do.	S.I.	—
131	CLOSET	Do.	Do.	Do.	Do. Do.	S.I.	—
132 to 134	STUDIO	CORK TILE	WOOD	Do.	Do. Do.	S.I.	AC. TR.
135	STAIR HALL	QUARRY TILE	MARBLE	Do.	PLASTER	—	—

NOTE:- S.I. INDICATES SOUND INSULATION — AC. TR. INDICATES ACOUSTICAL TREATMENT



SECOND FLOOR PLAN

Scale 1/8"=1'-0"

ROOM SCHEDULE

No	NAME	FLOOR	BASE	WALLS	CEILING			REMARKS
201	REHEARSAL & CLASS ROOM	CORK	WOOD	PLASTER	SUSP. PLASTER	S.I.	AC.TR.	
202	LENDING LIBRARY	DO.	DO.	DO.	DO. DO.	S.I.	—	
203	NON LENDING LIBRARY	DO.	DO.	DO.	DO. DO.	S.I.	—	
204	CLASS ROOM	DO.	DO.	DO.	DO. DO.	S.I.	AC.TR.	RAISED WOOD PLATFORM
205	STAIR HALL	QUARRY TILE	MARBLE	DO.	PLASTER	—	—	
206	WORK SPACE	—	—	—	—	—	—	
207	CLOSET	QUARRY TILE	QUARRY TILE	PLASTER	SUSP. PLASTER	—	—	
208	ENTRY	DO. DO.	MARBLE	DO.	DO. DO.	—	—	
209	TOILET	CER. TILE	DO.	DO.	DO. DO.	—	—	MARBLE WAINSCOT
210	CLASS ROOM	CORK	WOOD	DO.	DO. DO.	S.I.	AC.TR.	
211-212	STUDIO	DO.	DO.	DO.	DO. DO.	S.I.	AC.TR.	
213	REST ROOM	QUARRY TILE	MARBLE	DO.	DO. DO.	—	—	
214	TOILET	CER. TILE	DO.	DO.	DO. DO.	—	—	MARBLE WAINSCOT
215	WORK SPACE	—	—	—	—	—	—	
216	ELEVATOR	—	—	—	—	—	—	
217	ELEVATOR ENTRANCE	QUARRY TILE	MARBLE	PLASTER	SUSP. PLASTER	—	—	
218	STAIR HALL	DO. DO.	DO.	DO.	PLASTER	—	—	
219-220	CORRIDOR	DO. DO.	DO.	DO.	SUSP. PLASTER	S.I.	—	
221	PROJECTION BOOTH	RUBBER	RUBBER	DO.	DO. DO.	—	—	
222	BALCONY	DO.	DO.	DO.	DO. DO.	—	—	WALLS ACOUSTICAL TREATED
223	CORRIDOR	QUARRY TILE	MARBLE	DO.	DO. DO.	S.I.	—	
224	STAIR HALL	DO. DO.	DO.	DO.	PLASTER	—	—	
225	CLASS ROOM	CORK	WOOD	DO.	SUSP. PLASTER	S.I.	AC.TR.	RAISED WOOD PLATFORM
226	RECORD ROOM	DO.	DO.	DO.	DO. DO.	S.I.	AC.TR.	
227	PHONOGRAPH & RECORDING	DO.	DO.	DO.	DO. DO.	S.I.	AC.TR.	
228	TOILET	CER. TILE	MARBLE	DO.	DO. DO.	—	—	MARBLE WAINSCOT
229	ENTRY	QUARRY TILE	DO.	DO.	DO. DO.	—	—	
230	JANITOR'S CLOSET	DO. DO.	QUARRY TILE	DO.	DO. DO.	—	—	
231	WORK SPACE	—	—	—	—	—	—	
232	STAIR HALL	QUARRY TILE	MARBLE	DO.	PLASTER	—	—	

NOTE:- S.I. INDICATES SOUND INSULATION - AC.TR. INDICATES ACOUSTICAL TREATMENT