# WAYNE STATE UNIVERSITY

### WAYNE STATE UNIVERSITY

Facilities Planning and Management 5454 Cass Avenue Detroit, MI 48202

# NIAGARA

NM Project Number - 18114.0

## RANDS HOUSE RENOVATION DETROIT, MI 48202

ARCHITECTURE BIRMINGHAM, MICHIGAN 48009 TELEPHONE: 248.646.5765 FACSIMILE: 248.646.5813

consultants:

key plan:

## NIAGARA MURANO

2215 Cole Street BIRMINGHAM, MICHIGAN 48009 P (248)646-5765 F (248)646-5813

### ARCHITECTURAL

TITLE SHEET, DRAWING INDEX & LOCATION & VICINITY MAPS ABBREVIATIONS, DRAWING SYMBOLS STANDARDS& STANDARD MOUNTING HEIGHTS

A-20 ROOM FINISH SCHEDULE

A-30 DOOR SCHEDULE & WALL TYPES TO ANY OF RANDS HOUSE 1ST FLOOR LIFE SAFETY PLAN

RANDS HOUSE 2ND FLOOR PLAN- DEMOLITION WORK

RANDS HOUSE 1ST FLOOR REFLECTED CEILING PLAN - DEMOLITION WORK RANDS HOUSE 2ND FLOOR REFLECTED CEILING PLAN - DEMOLITION WORK

RANDS HOUSE 2ND FLOOR PLAN- NEW WORK A-201

RANDS HOUSE 2ND FLOOR PLAN- NEW WORK

RANDS HOUSE 1ST FLOOR REFLECTED CEILING PLAN - NEW WORK

RANDS HOUSE 2ND FLOOR REFLECTED CEILING PLAN- NEW WORK

### ALTERNATES

DEDUCT NEW CARPET THOUGHOUT THE FIRST FLOOR

# **♦IMEG**

26200 Town center Drive NOVI, MICHIGAN 48375 P (248)313-6902 F (248)344-1650

M E C H A N I C A L

FIRST FLOOR PLAN - VENTILATION

SECOND FLOOR PLAN VENTILATION

SECOND FLOOR PLAN - PLUMBING

FIRST FLOOR DEMOLITION - VENTILATION

SECOND FLOOR DEMOLITION - VENTILATION

VENTILATION COVER SHEET

VENTILATION DETAILS

ENLARGED PLANS

PLUMBING COVER SHEET

FIRST FLOOR - PLUMBING

PLUMBING SCHEDULES

P000

P300

P500

# 26200 Town center Drive

ELECTRICAL COVER SHEET

SECOND FLOOR PLAN - LIGHTING BASEMENT FLOOR PLAN - POWER FIST FLOOR PLAN - POWER

EP-300 POWER DETAILS ES100 BASEMENT FLOOR PLAN - SYSTEMS

SYSTEMS DETAILS TECHNOLOGY COVER SHEET

SECOND FLOOR DEMOLITION - TECHNOLOGY FIRST FLOOR PLAN - TECHNOLOGY

SECOND FLOOR PLAN - TECHNOLOGY T300

FIRST FLOOR DEMOLITION- ELECTRICAL SECOND FLOOR DEMOLITION - ELECTRICAL FIRST FLOOR PLAN - LIGHTING

**♦IMEG** 

NOVI, MICHIGAN 48375

P (248)313-6902 F (248)344-1650

ELECTRICAL

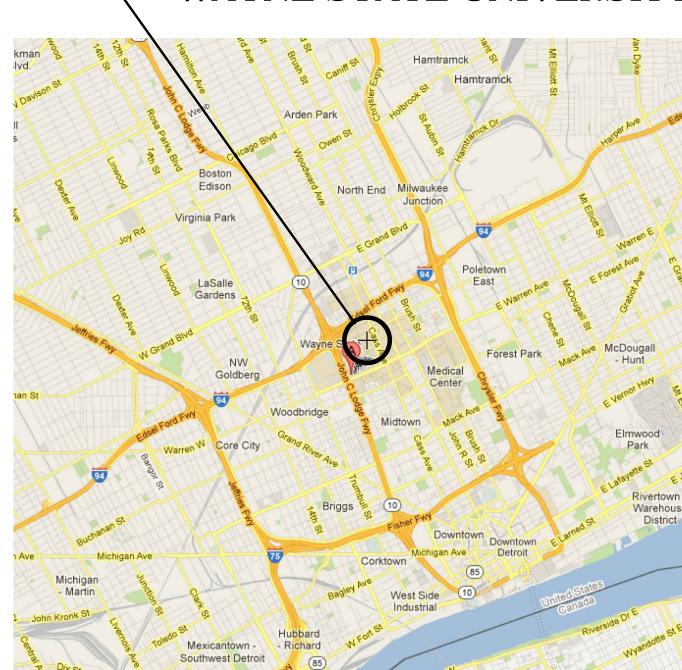
SECOND FLOOR PLAN - POWER

FIRST FLOOR PLAN - SYSTEMS ES102 SECOND FLOOR PLAN - SYSTEMS

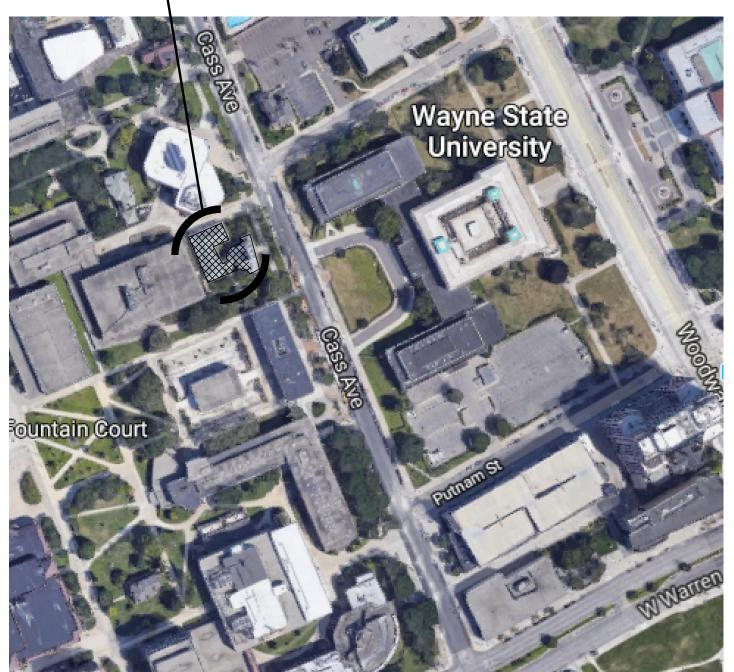
FIRST FLOOR DEMOLITION - TECHNOLOGY

TECHNOLOGY DETAILS, RISERS, AND SCHEDULES

## - WAYNE STATE UNIVERSITY



## PROJECT SITE: RANDS HOUSE



## W O R K S C O P E

RENOVATE PORTION OF RANDS HOUSE INTO NEW OFFICES, CLASSROOMS AND LABS, CREATE NEW ADA TOILET ROOMS.

A P P L I C A B L E C O D E S (FOR CONTRACT DOCUMENTS)

BUILDING CODE: MICHIGAN REHABILITATION CODE FOR EXISTING BUILDING/ 2015

**MECHANICAL CODE:** STATE OF MICHIGAN MECHANICAL CODE/ 2015 ELECTRICAL CODE: STATE OF MICHIGAN ELECTRICAL CODE /2014

PLUMBING CODE: MICHIGAN PLUMBING CODE/ 2015

**SYSTEMS** 

NFPA 101 LIFE SAFETY CODE NFPA 13/2007 STANDARD FOR THE INSTALLATION OF SPRINKLER

PUBLIC HEALTH CODE: MDCIS MINIMUM DESIGN STANDARDS FOR CONSTRUCTION AND EQUIPMENT FOR

BUSINESS - B

**GROSS AREA** 

UFAS, AMERICANS WITH DISABILITIES ACT ACCESSIBILITY BARRIER FREE CODES: GUIDELINES, MICHIGAN BARRIER FREE - 2010

CONSTRUCTION TYPE: 1A NON-COMBUSTIBLE

P R O J E C T

RANDS HOUSE RENOVATION

FIRE SAFETY CODE:

USE GROUP:

AREA SUMMARY

No code variance requests are anticipated.

HEALTHCARE FACILITIES IN MICHIGAN

Contractor to coordinate WORK SCOPE and construction activities with WSU construction Project Manager:

- 13,000 GSF ±

Addendum #2 Jan. 04, 2019 For Bids Dec. 11, 2018 Review 100% CD's Dec. 04, 2018 Owner Review90% CD's Nov. 27, 2018 Owner Review 60% CD's Nov. 13, 2018



### WAYNE STATE UNIVERSITY

designed			D
drawn			A
coordinatio	n checked		J
checked	JK	approved	J
location		Rands	Hous

project:

Rands House - Rackham Relocation

sheet title:

Title Sheet, Drawing Index and Location & Vicinity Maps

project number: WSU: 028-321356

VICINITY PLAN SCALE: NTS

LOCATION PLAN SCALE: NTS

;   <b>F</b>	ROOM	FLOC	)R		BASE	NO	RTH WALL	SOUT	H WALL	EAST WA	LL WES	T WALL	WINDOW SILL	CEILING			BULKHEAD	MILLWO	ORK		
RO	OM NO. ROOM NAME	MAT.	TRANSITION	FINISH	MAT.	FINISH MA	AT. FINISI	H MAT.	FINISH	MAT. FI	NISH MAT	. FINISH	I MATERIAL TYPE	MATERIAL FIN	NISH MOUNT	г HEIGHT	MATERIAL FINISH	CABINETS	COUNTER	REMARKS	
1	100 VESTIBULE	CPT-1	-	-	RB-1	- G1	W PT-1	GW	PT-1	GW 1	PT-1 GW	PT-1		- PT	-3 -	CLNG PLAN				-	
	101 OPEN OFFICE	CPT-1	-	-	RB-1	- GI		GW	PT-1		PT-1 GW	PT-1		- PT		CLNG PLAN				-	
-	102 OPEN OFFICE 103 CONFERENCE ROOM	CPT-1	-	-	RB-1	- G1		GW	PT-1 PT-1		PT-1 GW PT-1 GW	PT-1 PT-1		- PT		CLNG PLAN CLNG PLAN				-	
	104 CORRIDOR	CPT-1	-	-	RB-1	- G/		GW	PT-1		PT-1 GW	PT-1		- PT		CLNG PLAN				-	
1	106 STORAGE	CPT-1	-	-	RB-1	- G1	W PT-1	GW	PT-1	GW 1	PT-1 GW	PT-1		- PT	-3 -	CLNG PLAN				-	
	107 OFFICE	CPT-1	-	-	RB-1	- GV		GW	PT-1		PT-1 GW	PT-1		- PT		CLNG PLAN				-	
-	108 CORRIDOR 109 WAITING	CPT-1	-	-	RB-1	- G1		GW	PT-1 PT-1		PT-1 GW PT-1 GW	PT-1 PT-1		- PT		CLNG PLAN CLNG PLAN				· ·	
-	110 STAIR	EXST	-	-	EXST	- EX:	-		EXST		EXST EXST	EXST		- ACT		CLNG PLAN				-	
1	111 CORRIDOR	CPT-1	-	-	RB-1	- G/	W PT-1	GW	PT-1	GW ]	PT-1 GW	PT-1	-	- ACT	Г-1 -	CLNG PLAN				·	$\sim$
	112 TYP OFFICE	CPT-1	-	-	RB-1	- G1		GW	PT-1		PT-1 GW	PT-1		- ACT		CLNG PLAN			(	INCLUDES OFFICES 126, 128, 129, 138, 141, 142, & 14	
$\vdash$	116 LOUNGE 118 WAITING/OFFICE	CPT-1	-	-	RB-1	- GI		GW	PT-1 PT-1		PT-1 GW PT-1 GW	PT-1 PT-1		- ACT		CLNG PLAN CLNG PLAN				02	
	120 UNISEX ADA RESTROOM	EXST	-	-	EXST	- GI		GW	PT-1		PT-1 GW	PT-1		- ACT		CLNG PLAN					
	24 WOMENS RESTROOM	FYST	<u></u>		EXST		W PT-1	GW	PT-1	CW	PT-1 GW	PT		- AC		CING PLAN					
	125 RESEARCH LAB	CPT-1	-	-	RB-1	- G1		GW	PT-1	GW 1	PT-1 GW	PT-1		- ACT		CLNG PLAN				-	
NI.	130 TYP TREATMENT	CPT-1			RB-1		W PT-1	GW	PT-1	GW	PT-1 GW	PT-1			T-1 -	CLNG PLAN				INCLUDES TREATMENT ROOMS 132, 140, 143, &144	
1	136 CHILD PLAYROOM	CPT-1	-	-	RB-1	- GI	W PT-1	GW	PT-1	GW 1	PT-1 GW	PT-1		- ACI		CLNG PLAN				-	
1	148 CORRIDOR	CPT-1	-	-	RB-1	- G/		GW	PT-1		PT-1 GW	PT-1		- ACT		CLNG PLAN				-	
1	150 STAIR	EXST	-	-	EXST	- EX	ST EXST	EXST	EXST	EXST F	EXST EXST	EXST		- ACI	Г-1 -	CLNG PLAN				-	
	OPEN OFFICE STORAGE	CPT-1	-	-	RB-1	- G/		GW	PT-1		PT-1 GW	PT-1			-3 -	CLNG PLAN				-	
	00.1 STORAGE 201 OPEN OFFICE	CPT-1	-	-	RB-1	- G1		GW	PT-1 PT-1		PT-1 GW PT-1 GW	PT-1 PT-1		- PT		CLNG PLAN CLNG PLAN				-	
2	202 OPEN OFFICE	CPT-1	-	-	RB-1	- GI		GW	PT-1		PT-1 GW	PT-1		- PT		CLNG PLAN					
4	203 OFFICE	CPT-1	-	-	RB-1	- G1	W PT-1	GW	PT-1	GW 1	PT-1 GW	PT-1		- PT	-3 -	CLNG PLAN				-	
2	204 CORRIDOR	CPT-1	-	-	RB-1	- GI		GW	PT-1		PT-1 GW	PT-1		- PT		CLNG PLAN				-	
- 2	205 OFFICE 207 OFFICE	CPT-1	-	-	RB-1	- G1		GW	PT-1 PT-1		PT-1 GW PT-1 GW	PT-1 PT-1		- PT		CLNG PLAN CLNG PLAN				-	
	208 CORRIDOR	CPT-1	-	-	RB-1	- GI		GW	PT-1	+	PT-1 GW PT-1 GW	PT-1	-	- PT		CLNG PLAN				-	
2	209 CORRIDOR	CPT-1	-	-	RB-1	- G/	W PT-1	GW	PT-1	GW I	PT-1 GW	PT-1	-	- PT	-3	CLNG PLAN				-	
	210 STAIR	EXST	-	-	EXST	- EX		EXST	EXST		EXST EXST	EXST		- PT		CLNG PLAN				-	
2	211 CORRIDOR 212 TYP TREATMENT	CPT-1	-	-	RB-1	- GI		GW	PT-1 PT-1	+	PT-1 GW	PT-1 PT-1		- PT		CLNG PLAN				INCLUDES TREATMENT ROOMS 217, 225, 232, 236, 238, 24	
	214 OFFICE	CPT-1	-	-	RB-1	- GI		GW	PT-1	+	PT-1 GW PT-1 GW	PT-1			-3 -	CLNG PLAN				102)	
	218 CHILDREN GROUP ROOM	CPT-1	-	-	RB-1	- G1		GW	PT-1	GW I	PT-1 GW	PT-1		- PT	-3	CLNG PLAN					
2	219 TYP OBSERVATION	CPT-1	-	-	RB-1	- GI		GW	PT-1	+	PT-1 GW	PT-1		- PT		CLNG PLAN				INCLUDES OBSERVATION 219, 234, 242, & 247	
	UNISEX ADA RESTOOM WOMENS RESTOOM	EXST	-	-	EXST EXST	- GI		GW	PT-1	+	PT-1 GW PT-1 GW	PT-1 PT-1		- PT		CLNG PLAN CLNG PLAN				(02)	
		CPT-1					W PT-1			GW GW				PT	3	CLNG PLAN CLNG PLAN					
	248 CORRIDOR 250 STAIR	CPT-1 EXST	-	-	RB-1 EXST	- G\		GW EXST	PT-1 EXST		PT-1 GW EXST EXST	PT-1 EXST		- PT	-3 -	CLNG PLAN				-	
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	SEND OF A													-0000150							
DOF RIAL	R DATA BAS	SE DATA ERIAL	WAL MATERIA	L DATA al						CEILI MATERIA	NG DATA	4	ROOM ACCE	ESSORIES							
		CARPET TERRAZZO	GW GSP	GYPSUM WALLBO				STAINLESS ST GRANITE	TEEL		GYPSUM WALLE GYPSUM PLAST		TTD TOILET TISSUE HD ELECTRIC HAN								
SHI CEI RES QU CO RUI SLA WO NO N GR	NCRETE BBER TREAD & RISER BBER FLOORING ATE DOD N NE ANITE TILE  AL & WAX AL EFINISHED X CLN AL & VARNISH  RTR RF	QUARRY TILE CONCRETE RUBBER TREAD & RIS RUBBER FLOORING SLATE	GW-LL GWFR F FFR CMU PC LB AB ARCB ARCB1 ARCB2 ARCB2BARCBDB ARCBC ARCHB	GYPSUM VENEER GYPSUM WALLBO GYPSUM WALLBO FIBER REINFORC CONCRETE MASO POURED CONCR LIGHTWEIGHT BI ACOUSTIC BLOC ARCHITECTURAL ARCHITECTURAL ARCHITECTURAL ARCHITECTURAL ARCHITECTURAL ARCHITECTURAL ARCHITECTURAL ARCHITECTURAL ARCHITECTURAL FOLY-RESIN FACE BRICK FACE BRICK FACE BRICK GROUND FACE M GLASS BLOCK	OARD-LEAD LINE OARD FIRE-RATE CED GYPSUM PAN CED GYPSUM PAN ONRY UNITS RETE LOCK CK - SOUND ABSO L BLOCK TYPE "D" L BLOCK #1 - SPI L BLOCK - SINGLE BLOCK - DOUBL BLOCK CAP L HALF BLOCK M COURSING BRICK	ED NEL NEL FIRE-RATED  ORBING O' TRIM COURSING LIT RIB1 SR-1 NGLE SCORED FACE LE BULLNOSE LE BULLNOSE	CW FAB I WP WF QT CT AM S N WD	GLASS CURTAIN WAI FABRIC SCRIN WALL PROTEG WALL FABRIC QUARRY TILE CERAMIC & P AGGLOMERA SLATE NONE WOOD	M CTION (ACRO ORCELAIN TI	DVYN)  PCP FFR  ATT ACT HRLIT ARLIT PL ES EAD EMD AMDAB  CT N  MOUN	SUSPENDED	ENT PLASTER CED GYPSUM CED GYPSUM ULAR TILE IN TILE STANT LAY IN UNT LAY IN TIL UCTURE USTIC DECK AL DECK ETAL DECK	M PANEL WR WASTE RECEP M PANEL TB TOWEL BARS SD SOAP DISPENS MF MIRROR, FIXEI FMF FRAMED MIRR TILE FTMF FRAMED TILTE	TACLE  SER  O  OR, FIXED  D MIRROR, FIXED  M HOLDERS  TAIN RODS  SEMBLY  KIN DISPOSAL  KIN VENDOR  WER SEAT							
	AIN & VARNISH X INT X STRUCTION GLAS LLOW CORE WOOD #	GAUGE CLEAR FLOAT TEMPERED GEORGIAN POLISHEI LAMINATED REFLECTIVE TINTED TEMPERED INSULATE	DOOR F  SG VG HB PRE PLAM AA PER ED PT	PORTLAND CEMI	LOUVRE W MP MP/F AA		FRAME COME AL	STANDARD	AL WELDED BROKEN AL	FINISHE AA PER P	ES	SH SH JER N IULLION	WS WELD SEAM W LOCK SEAM T W SS AV	WC ASTRAGAL WEATHER CAP BARRIER FREE OPERA							
HOI SOI ALU HOI INS		REFLECTIVE INSULAT	ED ME	MATCH EXISTING		(SHOD DDAM	FRP I	FIBERGLASS 1	REINF'D POLY	YMER	EOD EINAL A	PPROVAL	ON ALL INTERIOR FINISH	ES)							
HOI SOI ALL HOI INS FIBI	EX OF FINIS	PAINT- MANUFACTUR TYPE:		AMS M	CARPET TANUFACTURER	TILE - CPT	– <b>1</b> MA HARDBACK	SAMPLES	WOSI BE		TOR FIVAL A			·							

## WAYNE STATE UNIVERSITY

Facilities Planning and Management 5454 Cass Avenue Detroit, MI 48202



ARCHITECTURE 2 2 1 5 C O L E S T R E E T BIRMINGHAM, MICHIGAN 48009 TELEPHONE: 248.646.5765 FACSIMILE: 248.646.5813

NM Project Number - 18114.0

consultants:

key plan:

issue:	date:
Addendum #2	Jan. 04, 2
For Bids	Dec. 11, 2
Review 100% CD's	Dec. 04, 2
Owner Review90% CD's	Nov. 27, 2
Owner Review 60% CD's	Nov. 13, 2



designed			DB
drawn			AG
coordination che	cked		JK
checked	JK	approved	JK
ocation		Rands	House

project:

Rands House - Rackham Relocation

sheet title:

Room Finish Schedule

project number: WSU : 028-321356 sheet number:

Ď	DOOR AND FRAME SCHEDULE NOTE: GENERAL CONTRACTOR TO REVIEW DOOR HARDWARE WITH OWNER PRIOR TO ANY INSTALLATION																									
g DOOR DATA									FRA	MEC	АТА					HARDWARE RE		REMARKS	REMARKS	DOOR						
DWG	DOOR No.	DOOR QTY.		SIZE HEIGHT THI		DOOR MAT.		GAUGE	RATING HRS.	GLASS	TRANSOM	LOUVER	FINISH	FRAME TYPE	JAMB DETAIL	FRAME MAT.	HEAD DETAIL	SERIES	RATING GLASS	FINISH	GROUF			Door Ur	No.	
(	D109	2	3'-0"(6'-0")	7'-0"	D1	SCW	-	-	-	-	-	-	-	F1	J1	HM	H1	-		-	ACCESS CONTORL	4	-		D101	<b>1</b> /2
)10	D118		3'-0"	7'-0"	$D_2$	SCW			20 min					F1	$J_1$	HM	HI				CLASSROOM				D118	~
A-2(	D120	1	3'-6"	7'-0"	D1	SCW	-	-	20 min	-	-	-	-	F1	J1	НМ	H1	-		-	PRIVACY	2	-		D120	
	D220	1	3'-6"	7'-0"	D1	SCW	-	-	20 min	-	-	-	-	F1	J1	НМ	H1	-		-	PRIVACY	2	-		D220	
	D224	1	3'-6"	7'-0"	D1	SCW	-	-	20 min	-	-	-	-	F1	J1	HM	H1	-		-	CLASSROOM	1	-		D224	
1	D230	1	3'-6"	7'-0"	D2	SCW	-	-	20 min	-	-	-	-	F1	J1	НМ	H1	-		-	CLASSROOM	1	-		D230	
A-20	D245	1	3'-0"	7'-0"	D2	SCW	-	-	-	-	-	-	-	F1	J1	НМ	H1	-		-	CLASSROOM	3	-		D245	
	D246	1	3'-6"	7'-0"	D2	SCW	-	-	-	-	-	-	-	F1	J1	HM	H1	-		-	CLASSROOM	3	-		D246	
	D247	1	3'-0"	7'-0"	D2	SCW	-	-	-	-	-	-	-	F1	J1	HM	H1	-		-	CLASSROOM	3	-		D247	
		-	+	1	•	-	-			-		1	•	+	•	1	•	•			•			1		

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## NIAGARA MURANO

ARCHITECTURE 2 2 1 5 COLE STREET BIRMINGHAM, MICHIGAN 48009 TELEPHONE: 248.646.5765 FACSIMILE: 248.646.5813

NM Project Number - 18114.0

consultants:

### DOOR REMARKS:

1. Contractor to coordinate with WSU reuse of existing doors and frames from storage. Verify quantity, size, fire rating and condition of existing doors prior to any installation.

### HARDWARE GENERAL NOTES:

### General notes:

- 1. Contractor shall verify all existing field conditions and notify architect immediately if that which exists differs from that which is shown on
- 2. All work to comply with Federal, State and Local codes, laws and ordinances. The requirements of ICC/ANSI A117.1 and the Americans with disabilities act (ADA) are to be fully satisfied. All work shall meet the most stringent requirements of both including, but not limited to clearances,
- limitations, accessories, etc. 3. These drawings are prepared in accordance with the limited services for which the architect was contracted. The architect makes no representation that the interpretation of these documents will result in complete compliance with the ADA.
- 4. All doors required to be labeled shall be set in labeled frames and identified with UL label and be provided with approved self-closing devices and positive latching hardware.
- 5. All designated exit doors shall be equipped with the required egress
- 6. Supplier shall meet with owner to establish MK keying system and provide a combinated cylinder for each locking device as direct by owner. Supplier shall submit key schedule for final approval. Furnish 2 change keys per cylinder and 2 master keys total.
- 7. Supplier shall furnish and provide all necessary reinforcements, brackets, fasteners, spacers and fillers to provide a complete functioning opening.
- 8. Supplier shall furnish complete shop drawings including; vertical typed hardware schedule, product data sheets and warranty information following DHI prescribed methods.

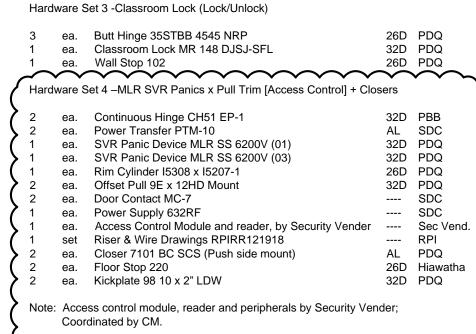
### DOOR HARDWARE:

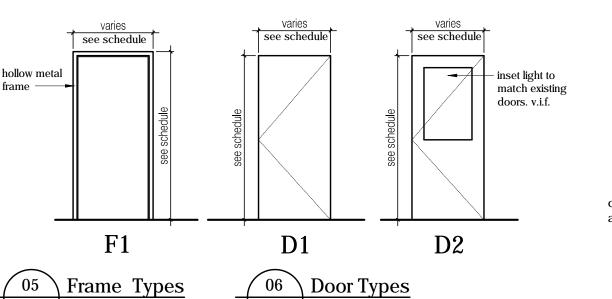
### Hardware Set 1 -Classroom Lock (Lock/Unlock) + Closer & Smoke Seal

3	ea.	Butt Hinge 35STBB 4545 NRP	26D	PDC
1	ea.	Classroom Lock MR 148 DJSJ-SFL	32D	PDG
1	ea.	Closer 7101 BC PA Regular Arm (Pull side Mount)	AL	PDG
1	ea.	Wall Stop 102	26D	PDG
1	ea.	Kickplate 98 10 x 2" LDW	32D	PDG
1	set	Smoke Seal 797B	Blk	Ree

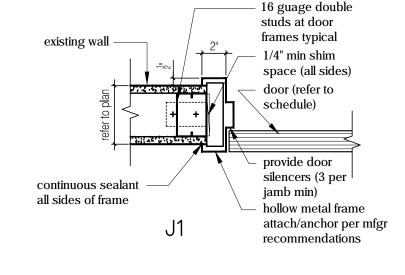
### Hardware Set 2 -Privacy Set w/ indicator (Lock/Unlock) + Closer & Smoke Seal

3	ea.	Butt Hinge 35STBB 4545 NRP	26D	PDQ
1	ea.	Privacy Set w/ indicator MR 278 PJSJ	32D	PDQ
1	ea.	Closer 7101 BC PA Regular Arm (Pull side Mount)	AL	PDQ
1	ea.	Wall Stop 102	26D	PDQ
1	ea.	Kickplate 98 10 x 2" LDW	32D	PDQ
1	set	Smoke Seal 797B	Blk	Rees





A-030 Scale: 1/4'' = 1'-0''



exterior wall

**EXTERIOR** 

~2 1/2" C channels,

secure to structure

~5/8" gyp board on

2 1/2" C channels

existing acoustic tile

-aluminum skirt panel

blackout shading

system, refer to

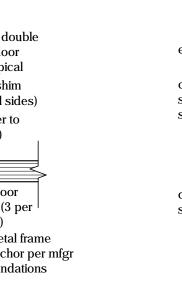
specifications

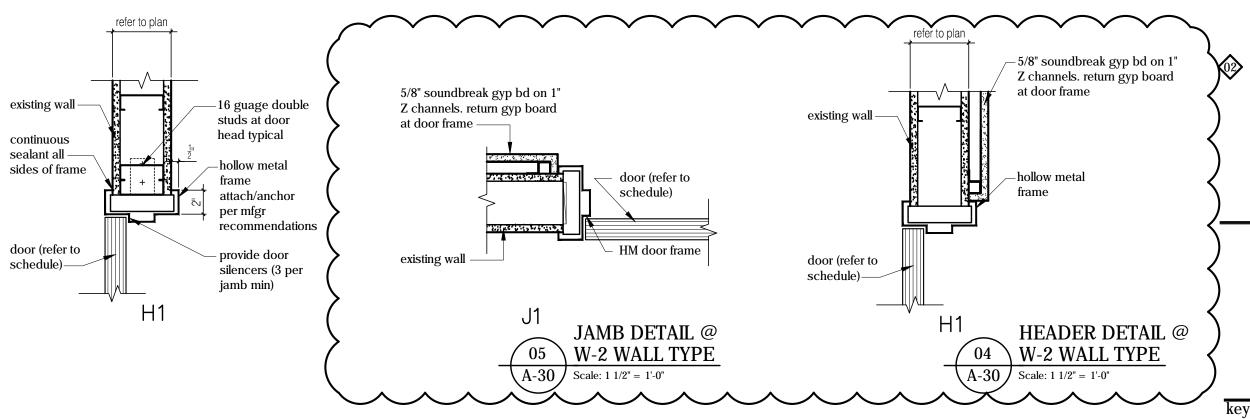
INTERIOR

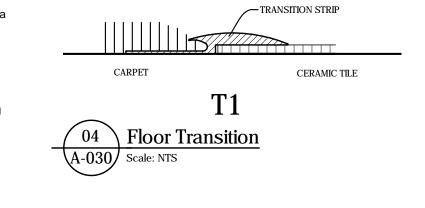
BLACKOUT

03 SHADE - SECTION

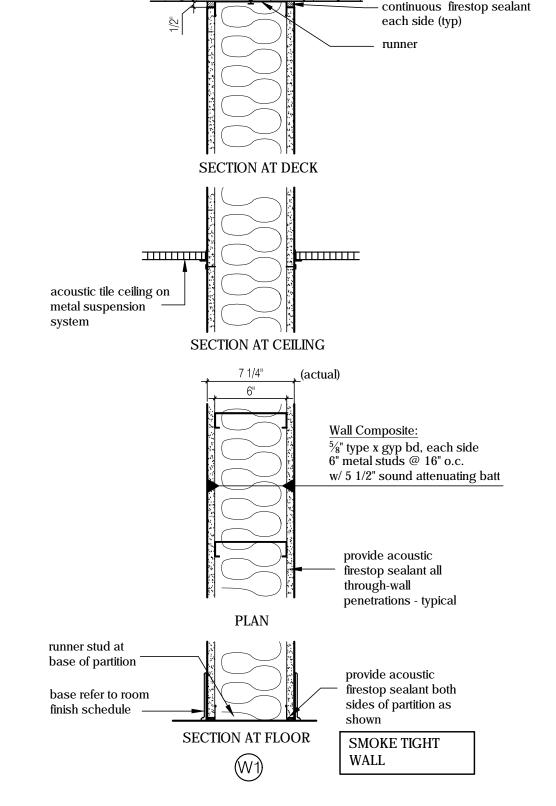
A-30 | Scale: 1 1/2" = 1'-0"

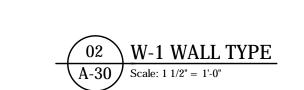


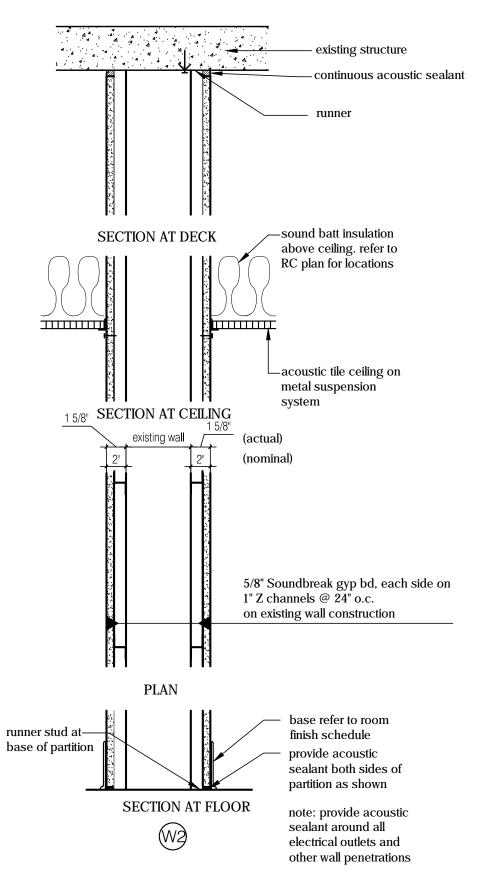




A-030 Scale: 1/4'' = 1'-0''







A-30 Scale: 1 1/2" = 1'-0"

(M3)	electrical outlets and other wall penetrations	
01 W-2	WALL TYPE	

ssue:	date:
Addendum #2	Jan. 04, 2
For Bids	Dec. 11, 2
Review 100% CD's	Dec. 04, 2
Owner Review90% CD's	Nov. 27, 2
Owner Review 60% CD's	Nov. 13, 2



### **WAYNE STATE** UNIVERSITY

designed			DB
drawn			AG
coordination	checked		JK
checked	JK	approved	JK
location		Rands	House

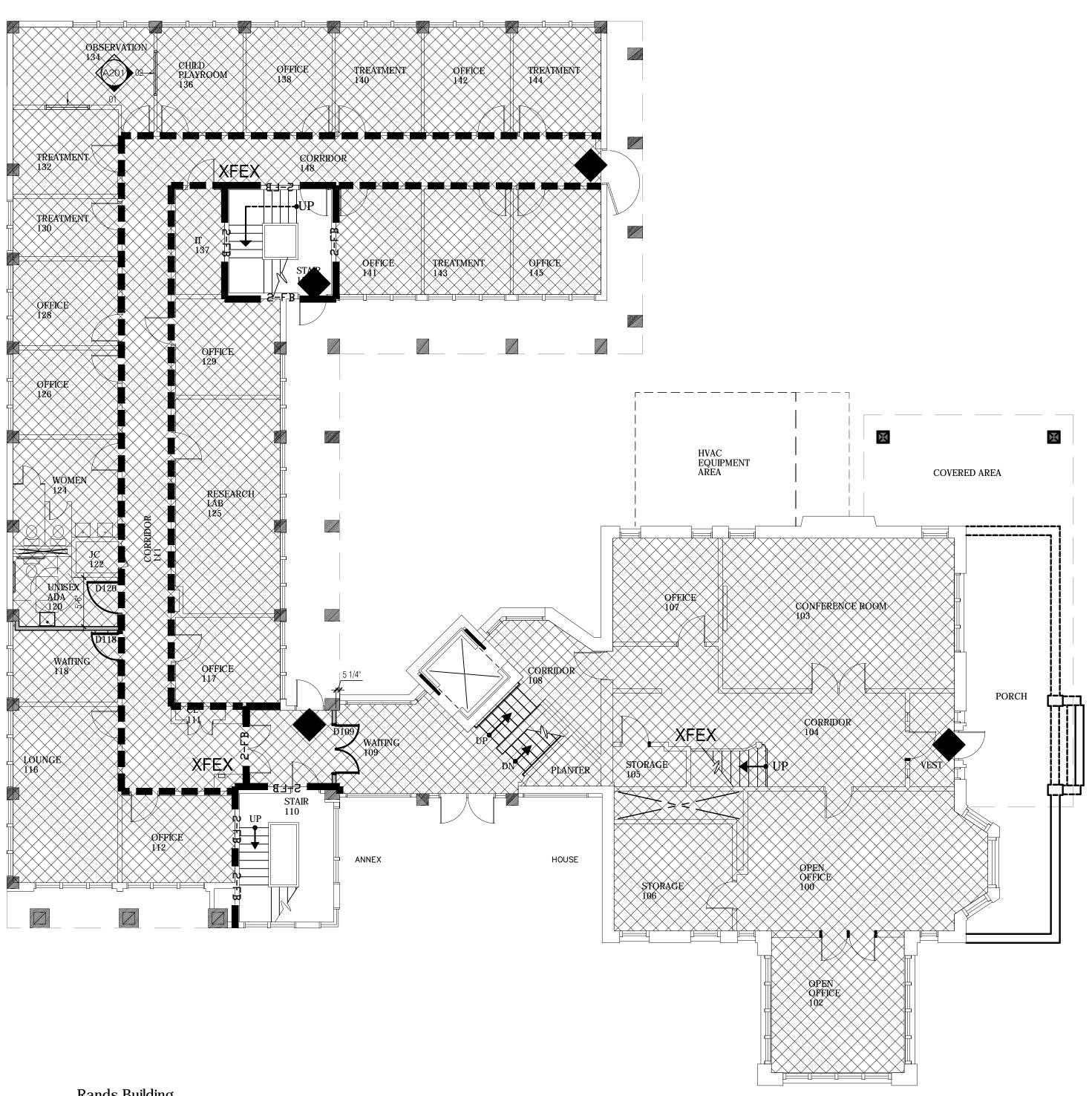
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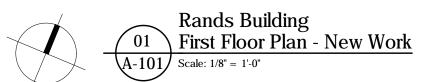
Rands House - Rackham Relocation

sheet title:

Door Schedule & Wall Types

sheet number: project number: WSU: 028-321356





## WAYNE STATE UNIVERSITY

Facilities Planning and Management 5454 Cass Avenue Detroit, MI 48202

## NIAGARA MURANO

AREA OF WORK

■ ■ ■ ■ ■ 1-Hr Fire Partition

■ 2-FB ■ 2-Hr Fire Barrier

SUITE

Exit Stair

**Smoke Partition** 

1-Hr Fire Barrier

LEGEND

Exit

Fire Extinguisher FEX

Existing Fire Extinguisher

2 2 1 5 C O L E S T R E E T B I R M I N G H A M , M I C H I G A N 48009 T E L E P H O N E : 2 4 8 . 6 4 6 . 5 7 6 5 F A C S I M I L E : 2 4 8 . 6 4 6 . 5 8 1 3 NM Project Number - 18114.0 consultants:

issue:	date:
Addendum #2	Jan. 04, 20
For Bids	Dec. 11, 20
Review 100% CD's	Dec. 04, 20
Owner Review90% CD's	Nov. 27, 20
Owner Review 60% CD's	Nov. 13, 20



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designed			DE
drawn			AG
coordination ch		JK	
checked	JK	approved	JK
location		Rands	House

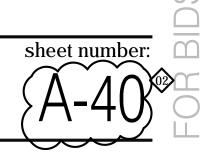
project:

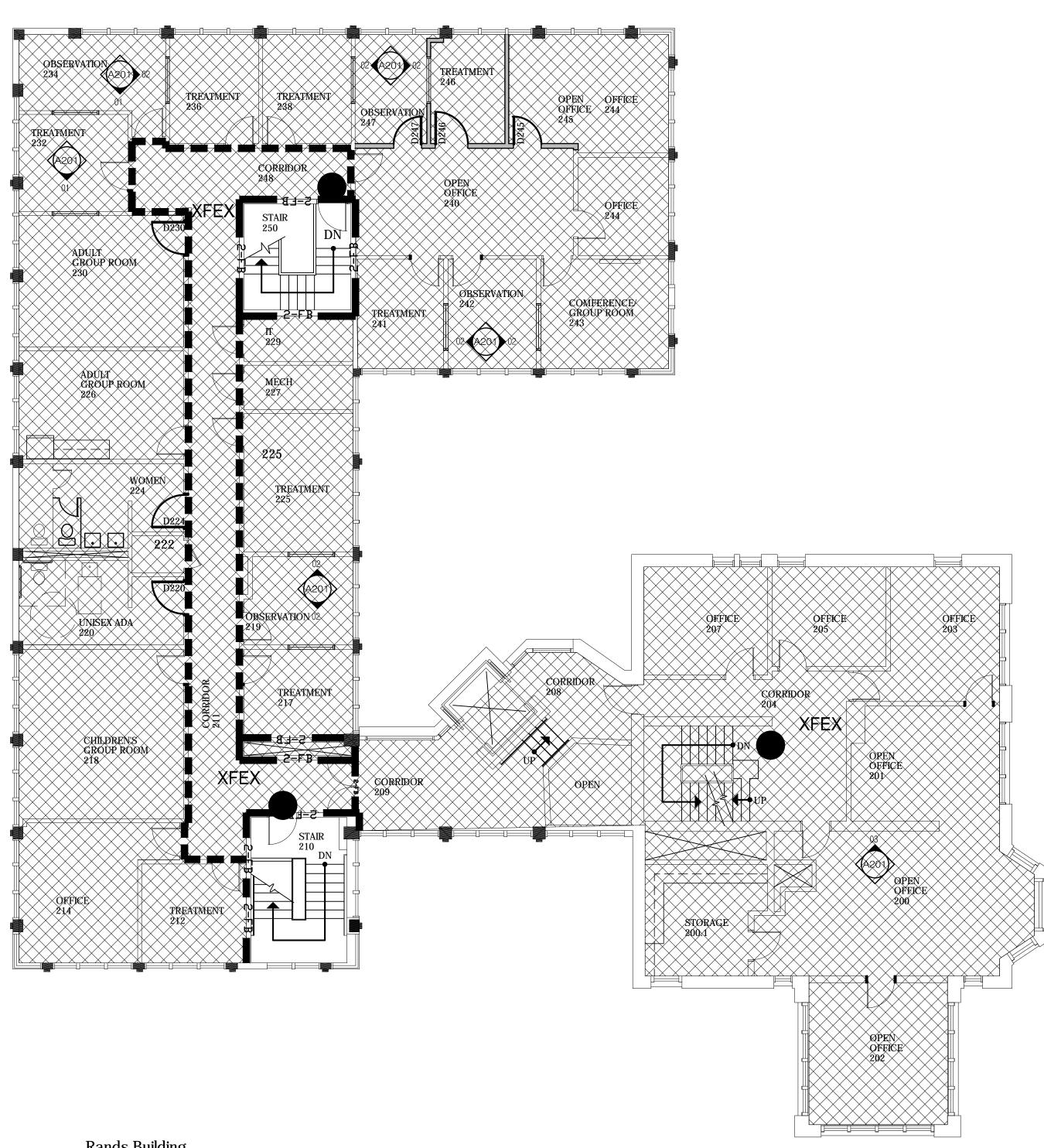
Rands House - Rackham Relocation

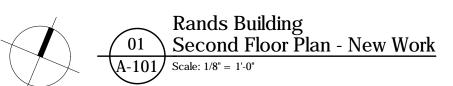
sheet title:

Rands House 1st Floor Plan -New Work

project number: WSU: 028-321356







## LEGEND

Smoke Partition

I - Hr Fire Partition

■ 1-FB ■ 1-Hr Fire Barrier

■ 2-FB ■ 2-Hr Fire Barrier

SUITE

AREA OF WORK

Exit Stair

Exit

χ Fire Extinguisher

XFEX Existing Fire Extinguisher

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NM Project Number - 18114.0

consultants:

key plan:

issue:	date:
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# WAYNE STATE UNIVERSITY

designed			DI
drawn			AG
coordination c	hecked		JK
checked	JK	approved	JK
location		Rands	House

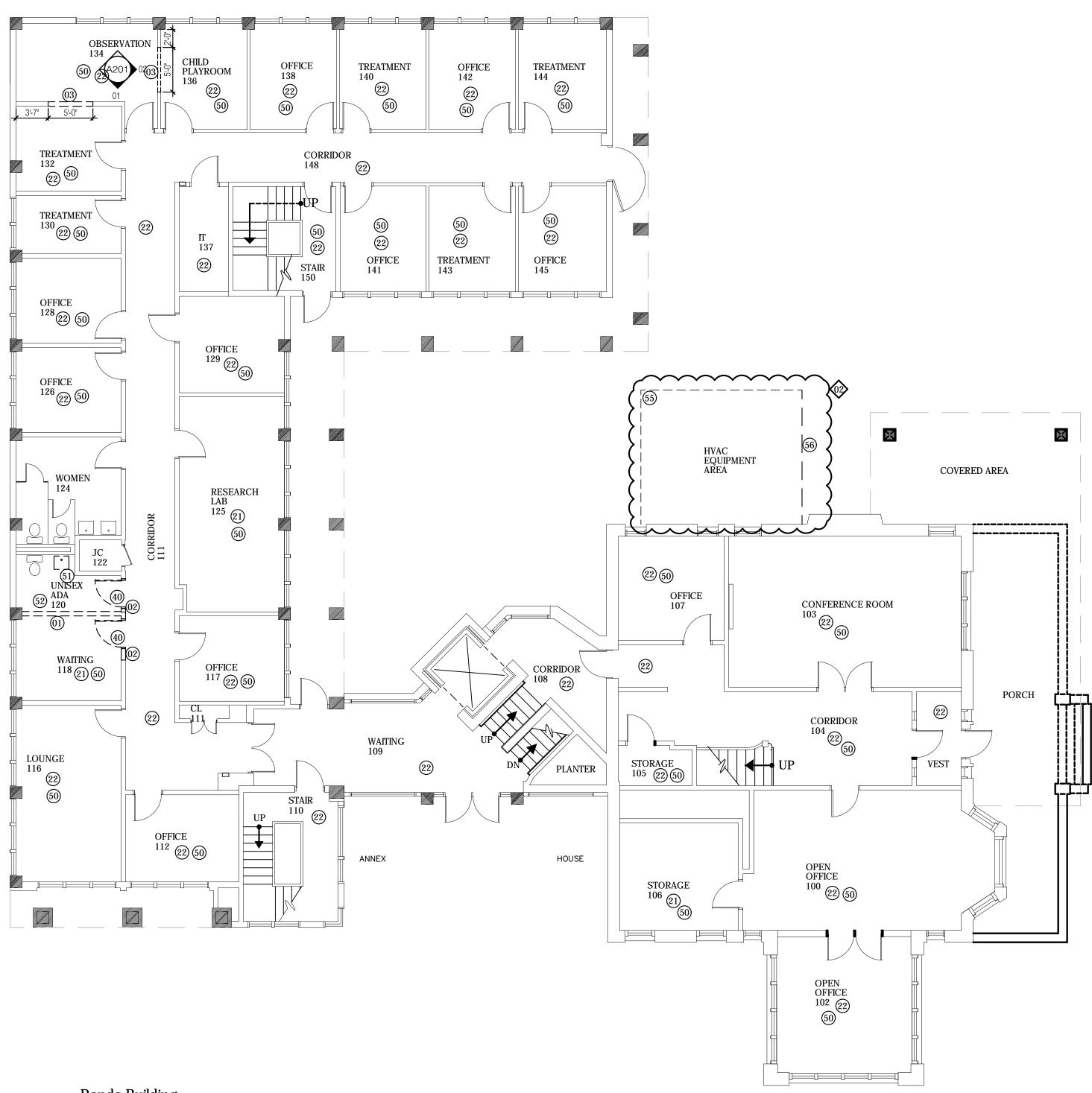
project:

Rands House - Rackham Relocation

sheet title:

Rands House 2nd Floor Life Safety Plan

project number: WSU: 028-32135*8* 



# Rands Building First Floor Plan - Demolition A-101 Scale: 1/8" = 1'-0"

### GENERAL DEMOLITION NOTES

- A. Demolition contractor shall be familiar with entire scope of new work prior to starting demolition work
- B. all demolition floor plans, wall layouts, door and window locations, patterns have been shown for reference only. The General Contractor must field verify all dimensions and room layouts prior to new work and notify the architect of any deviations from what is shown. All site visits must be coordinated with WSU Construction Project Manager minimum 24 hours in advance of the site visit(s). All work outside of defined construction zone must be coordinated with WSU Construction manager.
- C. refer to electrical and mechanical drawings for extent of electrical and mechanical demolition work and for additional information.
- D. room numbers and room names on all existing drawings relate only to demolition sheets.
- E. all existing items removed shall be returned to the owner for re-use or disposed of off site if rejected by the owner. do not damage any millwork during demolition.
- F. owner is responsible for removing any loose equipment such as furniture, movable equipment, trash cans, etc.
- G. all door hardware shall be removed from demolished doors, cleaned and turned over to the owner.
- H. repair all surfaces and components damaged during demolition and construction.I. coordinate scope and extent of demolition work with new work plans and details.
- J. demolition work required is not necessarily limited to what is shown on the demolition plans. the intent is to remove all mechanical, electrical, and architectural
- K. unless noted otherwise when removing existing suspended lay-in ceiling assembly, including furring channels, wall angles and suspension wires.
- L. where new plumbing is indicated, saw cut & remove existing concrete floor slab for installation of new plumbing. coordinate with mechanical and plumbing drawings for locations. Contractor must take precautions not to damage existing structural floor slab and is responsible to repair any damage due to new work. All slab removal work must be coordinated with EMU for allowable time of work and per specifications

### <u>LEGEND</u>

\_\_\_\_ items to be removed

items required to facilitate new construction.

----- existing items to remain

### **DEMOLITION NOTES**

### wall

- (1) Remove existing gypsum and metal stud wall full height
- (02) Remove portion of existing gypsum & metal stud wall for new door
- (03) Remove portion of existing gypsum & metal stud wall for new one-way mirror
- Prep existing floor for new finish per specifications. Patch and repair existing floor as necessary for smooth floor finish.
- Existing flooring to be removed. Prep floor for new finish per
- specifications. Patch and repair existing concrete floor slab.
- 22) Existing flooring to remain.

### <u>ceilings</u>

- remove existing acoustic tile ceiling, grid to reamin. Coordinate removal of mechanical, plumbing and electrical items with M&E demolition drawings.
- remove existing light fixtures. Coordinate removal of other mechanical, plumbing and electrical items with M&E demolition drawings.

### doors

remove existing door & frame assembly, including all related hardware.

### misc items

- (50) all existing furniture, file cabinets, and other movable equipment, not tagged to remain is to be removed by WSU.
- (51) remove existing plumbing fixture. Refer or MEP dwgs for demo plumbing work.
- (52) remove existing toilet partition.
- (53) existing cabinets to remain.
- (54) existing vending machines to be removed
- (55) existing security fencing to remain
- (56) existing security fencing to be removed, coordinate with MEP drawings

# WAYNE STATE UNIVERSITY

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## NIAGARA MURANO

A R C H I T E C T U R E
2 2 1 5 C O L E S T R E E T
B I R M I N G H A M , M I C H I G A N 48009
T E L E P H O N E : 2 4 8 . 6 4 6 . 5 7 6 5
F A C S I M I L E : 2 4 8 . 6 4 6 . 5 8 1 3

NM Project Number - 18114.0

consultants:

key nlan

ssue:	date:
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### WAYNE STATE UNIVERSITY

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drawn			AG						
coordination c	coordination checked								
checked	JK	approved	JK						
location		Rands I	House						

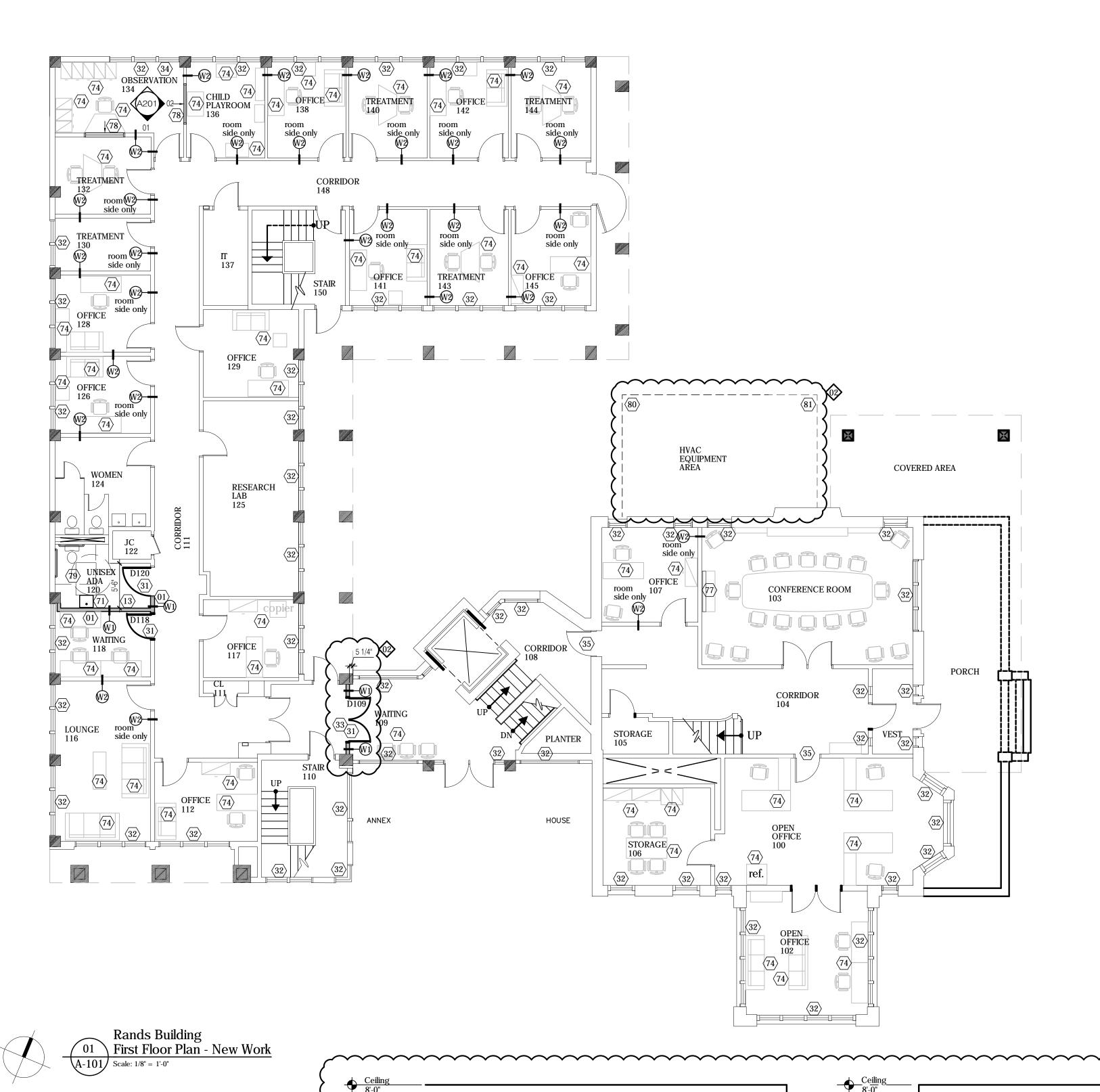
project:

Rands House - Rackham Relocation

sheet title:

Rands House 1st Floor Plan -Demolition Work

project number: shee



marker board with

marker tray from

salvage

wall base, refer to —

finish schedule

 $\sqrt{03}$  Open Office 200 Elevation

A701 | Scale: 3/8" = 1'-0"

one-way mirror in hollow

metal frame. refer to

architectural plans for

direction of view.

wall base, refer to -

 $\sqrt{02}$  Typical One-Way Mirror Elev.

A201 Scale: 3/8" = 1'-0"

finish schedule

### **GENERAL NOTES**

- 1) GENERAL CONTRACTOR AND SUB TRADES ARE RESPONSIBLE TO VERIFY ALL EXISTING DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY AND ALL
- 2) GENERAL CONTRACTOR SHALL BE FAMILIAR WITH WORK IN ACCORDANCE WITH NEW WORK.
- 4) REFER TO ELECTRICAL / MECHANICAL DRAWINGS FOR EXTENT OF NEW ELECTRICAL AND MECHANICAL WORK. COORDINATE BETWEEN ALL DISCIPLINES.
- 5) ALL PATCH PAINTING TO INCLUDE ENTIRE/COMPLETE

 $\bigcirc 1 \rangle$  NEW WALL CONSTRUCTION, PREP AND PAINT, REFER TO WALL TYPES AND DETAILS.

- $\langle 11 \rangle$  NEW FLOOR FINISH, REFER TO FINISH SCHEDULE
- $\langle 13 \rangle$  INFILL AREA WHERE WALL WAS REMOVED WITH NEW FLOORING TO MATCH EXISTING

- (31) INSTALL NEW DOOR, REFER TO DOOR SCHEDULE. PROVIDE HARDWARE PER SCHEDULE

- $\langle 35 \rangle$  DOOR CARD READER TO BE RE-CODED.

- PREP AND PAINT GYPSUM CEILING
- $\langle 44 \rangle$  PROVIDE NEW 2'x2' CEILING ACCESS HATCH. COORDINATE LOCATION

one-way mirror in hollow-

metal frame. refer to

direction of view.

wall base, refer to —

finish schedule

architectural plans for

- $\langle 72 \rangle$  RELOCATED PROJECTION SCREEN
- 74 INSTALL NEW LOOSE FURNITURE, REFER WSU
- ⟨75⟩ INSTALL NEW WHITE BOARD
- $\langle 77 \rangle$  INSTALL NEW FLAT SCREEN
- DIRECTION OF VIEW
- ETC.) FOR NEW LAYOUT
- 81 NEW SECURITY FENCE, COORDINATE WITH MEP DRAWINGS

**1 Observation Room One-Way Mirror** 

A201 Scale: 3/8" = 1'-0"

- DISCREPANCIES.
- ENTIRE SCOPE OF NEW WORK AND PROCEED WITH
- 3) NEW WORK FLOOR PLANS, WALL LAYOUTS, DOOR AND WINDOW LOCATIONS AND PATTERNS HAVE BEEN SHOWN FOR REFERENCE ONLY. THIS DRAWING IS NOT INTENDED TO SHOW ALL CONDITIONS, MATERIAL PATTERNS AND LAYOUTS. INSPECT SITE PRIOR TO START OF CONSTRUCTION TO DETERMINE THE FULL SCOPE OF WORK.
- REPORT DISCREPANCIES TO ARCHITECT.
- WALL EDGE TO EDGE & CORNER TO CORNER

### **NEW WORK NOTES:**

- (12) NEW FLOOR BASE, REFER TO FINISH SCHEDULE

### DOORS AND WINDOWS

- $\langle \overline{32} \rangle$  CLEAN EXISTING WINDOW SYSTEM, REPAIR WINDOW SILL AS NECESSARY
- (33) DOOR TO RECEIVE NEW CARD READER, REFER TO ELECTRICAL DRAWINGS
- (34) WINDOW TO RECEIVE NEW BLACK-OUT SHADE

- PROVIDE NEW ACOUSTIC CEILING TILE AND GRID, REFER TO FINISH
- PROVIDE MINIMUM 4" SOUND ATTENUATING INSULATION ABOVE CEILING 2 FEET EITHER SIDE OF WALLS AS SHOWN IN HATCHED AREAS.
- WITH MECHANICAL EQUIPMENT

### <u>LIGHTING</u>

 $\langle 51 \rangle$  INSTALL NEW LIGHTING FIXTURES, REFER TO ELECTRICAL DRAWINGS FOR FULL EXTENT OF WORK.

- $\langle 71 \rangle$  INSTALL NEW PLUMBING FIXTURE, REFER TO MEP DRAWINGS
- FUNITURE LIST
- $\langle 78 \rangle$  INSTALL NEW ONE-WAY MIRROR. ARROW INDICATES
- (79) RELOCATE EXISTING TOILET ROOM ACCESSORIES (IE. SOAP DISPENSER, TOWEL DISPENSER, MIRRORS,
- $\langle 80 \rangle$  EXISTING SECURITY FENCE TO REMAIN

## WAYNE STATE UNIVERSITY

Facilities Planning and Management 5454 Cass Avenue Detroit, MI 48202

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ARCHITECTURE 2 2 1 5 COLE STREET BIRMINGHAM, MICHIGAN 48009 TELEPHONE: 248.646.5765 FACSIMILE: 248.646.5813

NM Project Number - 18114.0

consultants:

key plan:

lagua	date:
ssue:	date:
Addendum #2	Jan. 04, 20
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Review 100% CD's	Dec. 04, 20



Nov. 27, 2018

Nov. 13, 2018

Owner Review90% CD's

Owner Review 60% CD's

### **WAYNE STATE** UNIVERSITY

designed			DB					
drawn			AG					
coordination chec	coordination checked							
checked	JK	approved	JK					
location	Rands I	House						

Rands House - Rackham Relocation

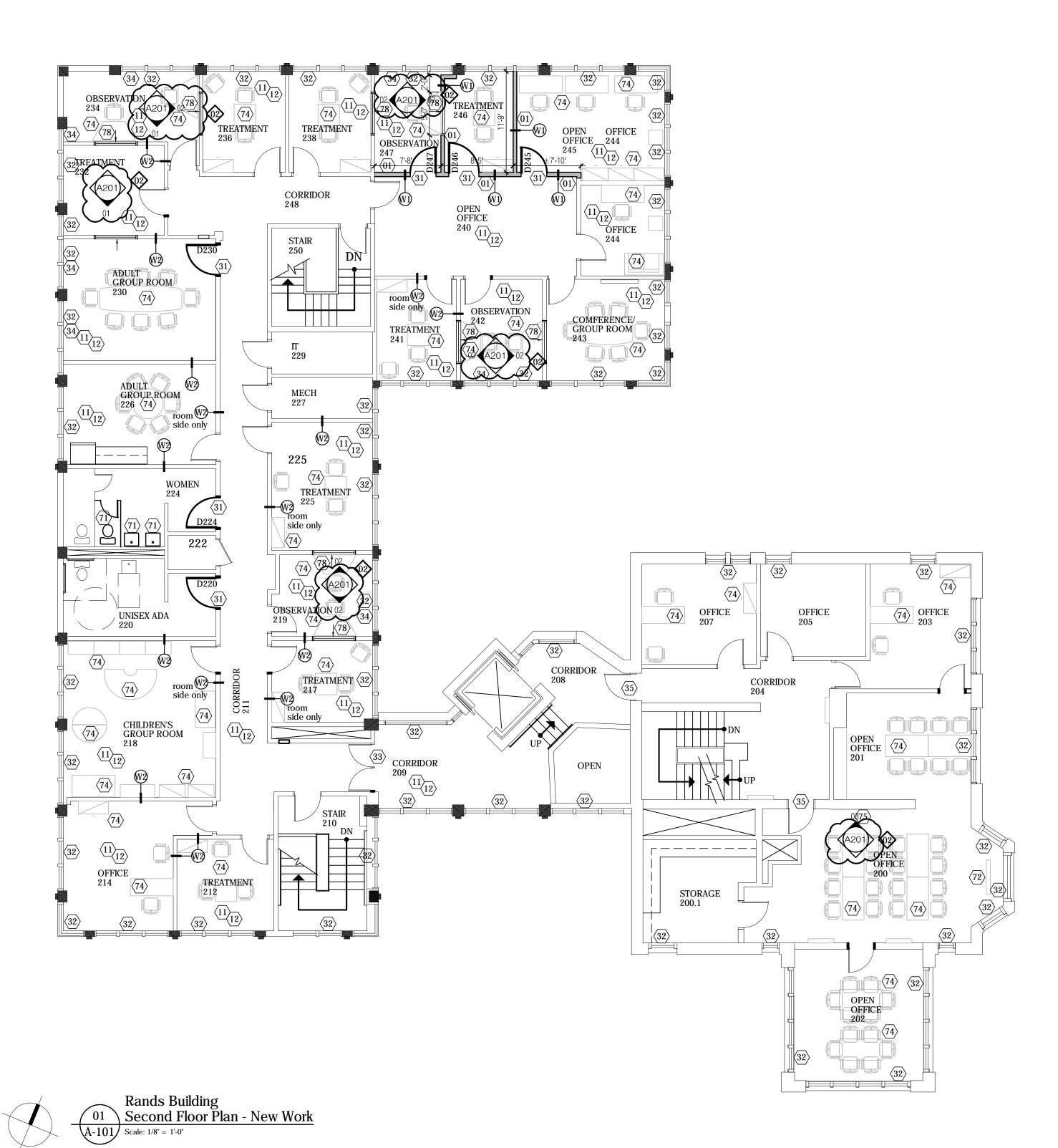
Rands House 1st Floor Plan -New Work

project number: WSU: 028-321356

sheet number:

project:

sheet title:



GENERAL NOTES

- 1) GENERAL CONTRACTOR AND SUB TRADES ARE RESPONSIBLE TO VERIFY ALL EXISTING DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY AND ALL DISCREPANCIES.
- 2) GENERAL CONTRACTOR SHALL BE FAMILIAR WITH ENTIRE SCOPE OF NEW WORK AND PROCEED WITH WORK IN ACCORDANCE WITH NEW WORK.
- 3) NEW WORK FLOOR PLANS, WALL LAYOUTS, DOOR AND WINDOW LOCATIONS AND PATTERNS HAVE BEEN SHOWN FOR REFERENCE ONLY. THIS DRAWING IS NOT INTENDED TO SHOW ALL CONDITIONS, MATERIAL PATTERNS AND LAYOUTS. INSPECT SITE PRIOR TO START OF CONSTRUCTION TO DETERMINE THE FULL SCOPE OF WORK.
- 4) REFER TO ELECTRICAL / MECHANICAL DRAWINGS FOR EXTENT OF NEW ELECTRICAL AND MECHANICAL WORK. COORDINATE BETWEEN ALL DISCIPLINES. REPORT DISCREPANCIES TO ARCHITECT.
- 5) ALL PATCH PAINTING TO INCLUDE ENTIRE/COMPLETE WALL - EDGE TO EDGE & CORNER TO CORNER

### NEW WORK NOTES:

 $\bigcirc 1 \rangle$  NEW WALL CONSTRUCTION, PREP AND PAINT, REFER TO WALL TYPES AND DETAILS.

### **FLOORS**

- (11) NEW FLOOR FINISH, REFER TO FINISH SCHEDULE
- (12) NEW FLOOR BASE, REFER TO FINISH SCHEDULE
- 13 INFILL AREA WHERE WALL WAS REMOVED WITH NEW FLOORING TO MATCH EXISTING

### DOORS AND WINDOWS

- (31) INSTALL NEW DOOR, REFER TO DOOR SCHEDULE. PROVIDE HARDWARE PER SCHEDULE
- (32) CLEAN EXISTING WINDOW SYSTEM, REPAIR WINDOW SILL AS NECESSARY
- (33) DOOR TO RECEIVE NEW CARD READER, REFER TO ELECTRICAL DRAWINGS
- (34) WINDOW TO RECEIVE NEW BLACK-OUT SHADE
- $\langle 35 \rangle$  DOOR CARD READER TO BE RE-CODED.

### **CEILINGS**

- $\langle 41 \rangle$  PREP AND PAINT GYPSUM CEILING
- $\langle 42 \rangle$  PROVIDE NEW ACOUSTIC CEILING TILE AND GRID, REFER TO FINISH
- $\langle 43 \rangle$  PROVIDE MINIMUM 4" SOUND ATTENUATING INSULATION ABOVE CEILING 2 FEET EITHER SIDE OF WALLS AS SHOWN IN HATCHED AREAS.
- PROVIDE NEW 2'x2' CEILING ACCESS HATCH. COORDINATE LOCATION WITH MECHANICAL EQUIPMENT

(51) INSTALL NEW LIGHTING FIXTURES, REFER TO ELECTRICAL DRAWINGS FOR FULL EXTENT OF WORK.

- $\langle 71 \rangle$  INSTALL NEW PLUMBING FIXTURE, REFER TO MEP
- $\langle 72 \rangle$  RELOCATED PROJECTION SCREEN
- (74) INSTALL NEW LOOSE FURNITURE, REFER WSU FUNITURE LIST
- (75) INSTALL NEW WHITE BOARD
- $\langle 77 \rangle$  INSTALL NEW FLAT SCREEN
- (78) INSTALL NEW ONE-WAY MIRROR. ARROW INDICATES DIRECTION OF VIEW
- (79) RELOCATE EXISTING TOILET ROOM ACCESSORIES (IE. SOAP DISPENSER, TOWEL DISPENSER, MIRRORS, ETC.) FOR NEW LAYOUT
- 80 EXISTING SECURITY FENCE TO REMAIN
- 81 NEW SECURITY FENCE, COORDINATE WITH MEP

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designed			DB
drawn			AG
coordination ch	ecked		JK
checked	JK	approved	JK

Rands House

project:

location

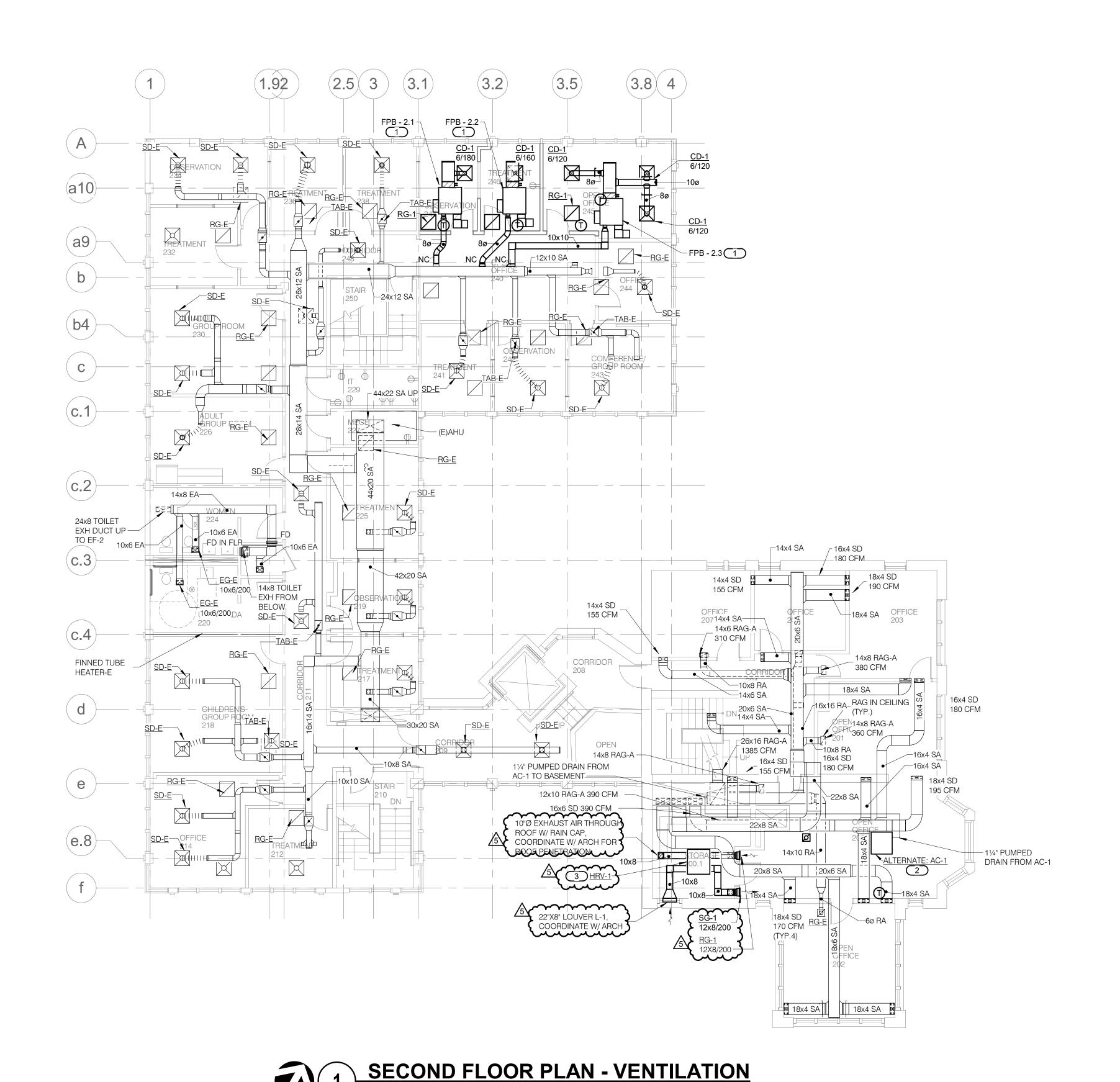
Rands House - Rackham Relocation

sheet title:

Rands House 2nd Floor Plan - New Work

project number: WSU: 028-321356





### SHEET GENERAL NOTES :

- COORDINATE FINAL DUCT AND PIPING ROUTES WITH EXISTING DUCT, PIPING ON SITE.
   COORDINATE ANY SHUTDOWNS OF EXISTING SERVICES OR EQUIPMENT WITH OWNER. PERFORM SHUTDOWNS AT A SCHEDULED TIME AS TO MINIMIZE DISRUPTION OF BUILDING OPERATIONS.
- CAP ALL OPEN ENDED DUCTWORK. DO NOT LEAVE ANY ABONDONED DUCT WORK IN THE AREA OF WORK.
- AREA OF WORK.

  PROVIDE ACCESS DOOR IN HARD CEILINGS
  WHERE NECESSARY TO PROVIDE ACCESS TO
  TERMINAL AIR BOXES AND OTHER EQUIPMENT
  LOCATED ABOVE CEILING.
- 5. PROVIDE ACCESS PANELS WHERE REQUIRED TO ALLOW ACCESS TO BALANCING DAMPER.

### KEYNOTES: #

- INSTALL AIR TERMINAL BOXES AND THEIR ASSOCIATED TEMPERATURE SENSORS, CONTROLS AND SUPPLY/RETURN/EXHAUST INLETS/OUTLETS AS SHOWN. INSTALLATION SHALL PER DETAILS ON MH-3.0. AIR TERMINAL BOX INSTALLATION SHALL PER MANUFACTURER AND PROVIDE SUFFICIENT CLEARANCE & SERVICE SPACES. FAN POWER BOX INDUCED AIR INLET SHALL HAVE SILENCER AND BE CLEAR OF ANY AIR BLOCKAGE. UNIT CONTROLS SHALL BE COMPATIBLE WITH EXISTING CONTROL SYSTEM IN THE BUILDING AND TO BE CONFIRMED BY THE OWNER.
- CONFIRMED BY THE OWNER.

  ALTERNATE: INSTALL NEW RECESSED CEILING MOUNTED AC-1, SEE SCH. CONNECT REFERIGERANT PIPING TO GROUND FLOOR PAD MOUNTED CU-1. SEE MH101. CONNECT PUMPED CONDENSATE LINE IN THE ATTATIC INTO THE DUCT CHASE & DRAIN TO BASEMENT F.D. INSTALL PER MANUFACTURERS RECOMMENDATIONS. COORDINATE WITH ARCH FOR UNIT MOUNTING.
- ARCH FOR UNIT MOUNTING.
  INSTALL NEW CEILING
  MOUNTED ENERGY RECOVERY VENTILATOR
  HRV-1, SEE SCH. CONNNECT EXHAUST AIR,
  OUTSIDE AIR, RETURN AIR & SUPPLY AIR PER
  MANUFACTURER RECOMMENDATION.
  COORDINATE WITH ARCH FOR OUTSIDE
  LOUVER & ROOF OPENING.

## WAYNE STATE

UNIVERSITY
Facilities Planning and Management
5454 Cass Avenue



BIRMINGHAM, MICHIGAN 48009

TELEPHONE: 248.646.5765

Detroit, MI 48202

FACSIMILE: 2 4 8 . 6 4 6 . 5 8 1 3 NM Project Number - 18113.0

consultants:

IMEG Project Number - 18004050.01

key plan: FLOOR LEVEL NO SCALE AREA OF WORK

<u>'</u>

issue: date:

Addendum 2 Jan. 04, 2019

For Bids Dec. 11, 2018

100% CD's Dec. 04, 2018

Owner Review 90% CD's Nov. 27, 2018



designed			PETPAF
drawn			KIRSA
coordination	checked		PETPAF
checked	PETPAP	approved	PETPAR
location		Rands	Building

project:

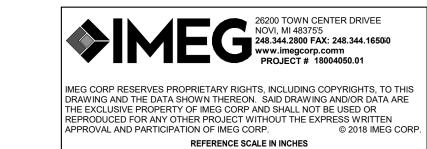
Rands House - Rackham Relocation

sheet title:

SECOND FLOOR PLAN - VENTILATION

project number: sheet number:

MH-102



			SPLI	T SYST	EM A	IR CC	OLE	D AIR C	ONDI	TIONING UN	IT SC	HEDUL	E (ALTI	ERNA	TE)					
									INDOO	R UNIT										
	N		COOILING HEATING AIR FILTER																	
MARK	AREA SERVED TUDE FLA DRIVE		Ā			CAPACITY RANGE			TOTAL		MAX FACE	EFF		PO	WER					
MARK	, u.c. ( O = ( \	TYPE	FLA	DRIVE	MCA	VOLT	PHASE	CFM (WET)	SHF	(BTUH)	SEER	CFM (DRY)	CAPACITY (BUTH) @ 5F	TYPE	VELOCITY (FPM)	%	VOLT	PHASE	FLA N	MCA MSCP
AC-01	2ND FLR MEETING SPACE	FC	1	DIRECT	2	208	1	670-770-880 -1030	0.79	18,000 - 36,000	16	710-810-920 -1060	38,000	2" PPF	500	60	208	1	FEED F	ROM CU-01
		•	•		•	•			•		•									

NOTES:

1. PACKAGED DX AC UNIT, RECESSED CEILING HUNG DUCTLESS. PROVIDE THREE-POLE DISCONNECT SWITCH BETWEEN INDOOR AND OUTDOOR UNIT.

2. PROVIDE UNIT WITH REMOTE T-STAT, UNIT MOUNTED DISCONNECT SWITCH, AND REMOTE WALL MOUNTED MICROPROCESSOR BASED PROGRAMMABLE CONTROL PANEL, WIRELESS CONTROLS, CONTROLS TO BE CONFIRMED BY THE OWNER.

3. ULTRA SOW AMBIENT HOR KARDES SNOW/ HAIL GUARDS KIT. 4. UNIT CONDENSATE PUMP.

		SPLIT	SYSTE	M AIR	COOLE	D AIR C	ONDI	TIONIN	G UN	IIT S	CHEDULE (CONT.)	
INDOOR UNIT				OUTI	DOOR CONDEN	SING UNIT						
			COMPRESSOR									
MARK	MARK			REF.	HOT GAS BYPASS		MFR/MODEL	REMARKS				
		TYPE	QUANTITY	TYPE	PROVIDED		VOLT	PHASE	MCA	MSCP		
AC-01	CU-01	SCROLL	1	R410A	NO	-13 TO 115	208	1	28	40	MITSUBISHI HEAT PUMP PLA-A36 & PUZ-HA36	SEE NOTES 1,2,3, 4

							ENE	RGY	REC	OVE	RY V	ENTIL	ATC	R SO	CHED				_13						
	AREA SERVED	TYPE			CAF	PACITY		ENTHALPHY RECOVERY EFFICIEN												ELEC INFO					
MARK			UNIT SIZE	CFM	CFM	CFM	CFM		HEATING %			COOLING %				IN.W.C.					FILTER	SOUND PRESSURE LEVEL (dBA)	DESIGN BASE MODEL	REMARKS	
				(EXTRA	CFM (HIGH)	(LOW)	(EXTRA LOW)	EXTRA HIGH	HIGH	LOW	EXTRA LOW	EXTRA HIGH	HIGH	LOW	EXTRA LOW	MIN.	MAX.	РН	VOLT	MCA	MOCP				
HRV-1	2ND FLR MTG	AIR TO AIR TOTAL	LGH-F300	300	260	203	91	63	65	68	79	50	52	55	63	0.60	0.6	1	208	1.8	15	WASHABLE	18-34	MITSUBISHI ELEC	UNIT CONTROL PZ-60DR LOSSNA CONTROLLER

	DIFFUSER-REGISTER-GRILLE-LOUVER SCHEDULE								
MARK	SERVICE	MODULE SIZE	CFM RANGE	MIN DUCT CONNECTION (IN)	NOMINAL NECK SIZE (IN)	MAX NC	DESCRIPTION	REMARKS	
CD-1	SUPPLY AIR CEILING DIFFUSER	24 X 24	1-200	6"	6"			ALUMINUM CONSTRUCTION, FACTORY-INSULATED R FOIL BACKED INSULATION	
OD-1	COLLET AIR GEIEING BILL GGEIX	24 // 24	201-345	8"	8"	30	MOUNTING		
SG-1	SUPPLY AIR GRILLE	SAME AS DUCT CONNECTION PLUS FRAME	1-450	12" X 8"	-		TITUS DOUBLE DEFLECTION BLADES WALL MOUNTED 300FL	ALUMINUM CONSTRUCTION	
RG-1	RETURN AIR GRILLE	24 X 24	201-2000	-	24X24	30	TITUS 45F CEILING MOUNTED	ALUMINUM CONSTRUCTION	
EG-1	EXHAUST AIR GRILLE	SAME AS DUCT CONNECTION PLUS FRAME	1-600	12" X 8"	-	30	TITUS WALL MOUNTED 350FL	ALUMINUM CONSTRUCTION	
L-1	INTAKE AIR LOUVER	22" X 8" OR EQUAL FACE AREA	350	-	-		RUSKIN GLAZING LOUVER OR 6 INCH WINDPROOF DRAINABLE LOUVER	ALUMINUM CONSTRUCTION, BIRD SCREEN, COORDINATE W/ ARCH	
NOTES		1					1		
1. SIZES INIDCA	ATED ARE TYPICAL. REFER TO PLA	NS FOR ADDITIONAL REQUIRED SIZE	ES AND CFM.						

	SERIES FAN POWERED BOX SCHEDULE																				
MARK	AREA SERVED	TYPE	UNIT SIZE	INLET SIZE (IN)		PRIMARY AIR HEATING COIL (ELECTRIC) (NOTE 4)						FAN INFORMATION				DN		MAX. NC	REMARKS		
MARK	ARK AREA SERVED TYPE UNIT SIZE INLET SIZE (IN) CFM (MAX) CFM (MIN) CFM ENT LVG OF OF	FAN CFM @	EXT SP	(HIC	MOTOR (HIGH EFFICIENCY ECM)		ECM)	MAX. NC	REMARKS												
IWAKK		1112	SIZE	(IN)	(MAX)	(MIN)	OI W			100				(IWC)	HP	VOLT		MOTOR CNTRL			
FPB-2.1	RESERVATION 247	SERIES	А	6	180	60	180	55	90	2.0	208	1	SCR (FULL MODULATING)	180	0.5	1/3	208	1	ECM	<30	TITUS TFS, INLET SILENCER
FPB-2.2	TREATMENT 246	SERIES	А	6	160	50	160	55	94	2.0	208	1	SCR (FULL MODULATING)	160	0.5	1/3	208	1	ECM	<30	TITUS TFS, INLET SILENCER
FPB-2.3	OFFICE 245	SERIES	А	6	360	120	360	55	90	4.0	208	1	SCR (FULL MODULATING)	360	0.5	1/3	208	1	ECM	<30	TITUS TFS, INLET SILENCER

1. FOR SINGLE DUCT VAV/CAV TERMINAL UNITS - RADIATED SOUND POWER DATA FOR 100% PRIMARY AIR VALVE FLOW IS TO BE ARI CERTIFIED AND IS NOT TO EXCEED 66 DB (REFERENCE 10 -12 WATTS) IN THE 2ND OCTAVE BAND AT THE MAXIMUM PRIMARY AIR FLOW INDICATED IN THE SCHEDULE AND WITH 1.5" W.C. INLET STATIC PRESSURE.

2. FOR SINGLE DUCT VAV/CAV TERMINAL UNITS - DISCHARGE SOUND POWER DATA FOR 100% PRIMARY AIR VALVE FLOW IS TO BE ARI CERTIFIED AND IS NOT TO EXCEED 74 DB (REFERENCE 10 -12 WATTS) IN THE 2ND OCTAVE BAND AT THE MAXIMUM PRIMARY AIR FLOW INDICATED IN THE SCHEDULE AND WITH 1.5" W.C. INLET STATIC PRESSURE.

3. FURNISH WITH THERMAL OVERLOAD PROTECTION AND DISCONNECT

4. COIL ENTERING AIR TEMPS AND HEATING CAPACITIES BASED ON 48F PRIMARY AIR, 68F PLENUM AIR AND 72F ROOM HEATING SETPOINT.

5. INSTALL A SIGN ON THE EXTERIOR OF THE AIR TERMINAL UNITS AT THE SERVICE ACCESS LOCATION INDICATING THE SOURCE AHU THAT IS PROVIDING THE SUPPLY AIR AND THE ROOMS THAT ARE BEING SERVED.

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consultants:

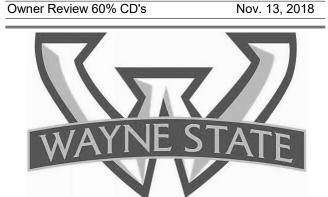
IMEG Project Number - 18004050.01

key plan: FLOOR LEVEL NO SCALE AREA OF WORK



issue: date:

Addendum 2	Jan. 04. 2019
For Bids	Dec. 11, 2018
100% CD's	Dec. 04, 2018
Owner Review 90% CD's	Nov. 27, 2018



designed			PETP#
drawn			KIRS
coordination	checked		PETPA
checked	PETPAP	approved	PETPA
location		Rands	Buildir

Rands House - Rackham Relocation

sheet title:

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VENTILATION SCHEDULE

project number:

## PLUMBING MATERIAL LIST

THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.

CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.

 $\dagger$ 

CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.

ALL FIXTURES SHALL CONFORM TO FEDERAL ACT S.3874

۱ ح	TAG	DESCRIPTION	ACCEPTABLE MANUFACTURERS
ኔ [ ኔ		LAVATORY - ADA WALL MOUNTED, WHITE VITREOUS CHINA, 20"x18", 4" HIGH CONTOURED BACKSPLASH, SINGLE FAUCET HOLE, DRILLED FOR CONCEALED ARM CARRIER.	LAVATORY - AMERICAN STANDARD (0356.421), KOHLER (K-2007)
١ ١		INSULATION KIT - PRE-MANUFACTURED FOR P-TRAP, STOP VALVES AND SUPPLY LINES.	INSULATION KIT - TRUEBRO
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		LAVATORY TRIM - SENSOR ACTIVATED MIXING FAUCET, HARD WIRED, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH AERATOR, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE, SOLID BRASS SOLENOID WITH BUILT-IN FILTER, SOLID BRASS THERMOSTATIC MIXING VALVE MEETING ASSE 1070 REQUIREMENTS WITH ADJUSTABLE TEMPERATURE LIMIT STOP AND INTEGRAL CHECK VALVES, WATERPROOF CONNECTORS AND CABLE, UL APPROVED TRANSFORMER.	, , ,
֡֡֡֞֜֞֜֜֡֡֡֜֜֞֜֜֡֡֡֡		ELECTRICAL REQUIREMENTS - 120 VAC INPUT	
	<u>L-1</u>	MOUNT CONTROLS AND ELECTRICALIN WATERPROOF VANDAL-RESISTANT ENCLOSURE BELOW LAVATORY. PROVIDE TRANSFORMER WITH CABLE EXTENSIONS (AS REQUIRED) OR PLUG-IN TRANSFORMER. MOUNT TRANSFORMER ABOVE CEILING OR IN ACCESSIBLE PIPE CHASE. COORDINATE LOCATION WITH ELECTRICAL CONTRACTOR. SELECT TRANSFORMER TO SERVE MAXIMUM NUMBER OF ELECTRONIC VALVES TO REDUCE THE AMOUNT OF TRANSFORMERS.	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		MOUNT MIXING VALVE UNDER COUNTER/LAVATORY. MAXIMUM FLOW SHALL BE 0.5 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED. FAUCET SHALL HAVE A MAXIMUM 30 SECONDS OF CONTINUOUS DISCHARGE.	
		ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES, DRAIN AND OFFSET TAILPIECE, 1-1/4" 17 GAUGE CAST BRASS P-TRAP, SUPPORT CARRIER.	
\ \ \		IN COMPLIANCE WITH LATEST ADA STANDARD. PROVIDE 29" MINIMUM CLEARANCE FROM FLOOR TO BOTTOM OF APRON IN COMPLIANCE WITH LATEST ANSI A117.1 AND ADA STANDARDS. ARMAFLEX WITH TAPE IS NOT ACCEPTABLE IN LIEU OF INSULATION KIT.	
ኔ   ኔ			

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### PLUMBING FIXTURE ROUGH-IN SCHEDULE

NOTES: 1) SANITARY RISER UP IN WALL TO FIXTURE SHALL BE A MINUMUM OF 2". 2) 1/2" CW AND HW APPLIES ONLY TO THE FINAL VERTICAL RISE-DROP TO EACH FIXTURE, BRANCH PIPING TO VERTICAL RISE-DROP SHALL BE A MINIMUM OF 3/4" UNLESS NOTED OTHERWISE. 3) SIZES SHOWN ARE MINIMUMS. SIZES SHOWN ON THE

 $\sim$ 

DRAWING THAT ARE LARGER THAN THE SIZES LISTED IN THE SCHEDULE SHALL DICTATE THE ROUGH-IN SIZE.							
FIXTURE DESCRIPTION	DOMESTIC CW (NOTE 3)	DOMESTIC HW (NOTE 3)	SANITARY (NOTE 3)	VENT (NOTE 3)	REMARKS		
FLOOR DRAIN/FLOOR SINK	-	-	3"	1 1/2"	-		
LAVATORY	1/2"	1/2"	1 1/4"	1 1/4"	NOTE 1 & 2		
WATER CLOSET	1"		4"	2"			



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consultants:

IMEG Project Number - 18004050.01

NM Project Number - 18113.0

key plan: FLOOR LEVEL NO SCALE AREA OF WORK

date:

issue:

Addendum 2 For Bids

Jan. 04, 2019 Dec. 11, 2018



PETPAP designed KIRSAI drawn PETPAP coordination checked PETPAP approved PETPAP location Rands Building

project:

Rands House - Rackham Relocation

sheet title:

PLUMBING SCHEDULES

project number: sheet number:

P-500 🖺

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•	FINISH:  CFSA - COLOR-FINISH SELECTION BY ARCHITECT				(L/L) LENS/LOUVER: O - OTHER (SEE DESCRIPTION)										
LI	(TYPE) LIGHT SOURCE TECHNOLOGY:  LED - LIGHT EMITTING DIODE				(MTG) MOUNTING: WL - WALL										
			WL - WALL  (WATT) PER: FIX - FIXTURE, FT - FOOT, LAMP  (TYPE) BALLAST/DRIVER:  EM - EMERGENCY BATTERY												
TALOG	NUMBER SHALL NOT BE CONSIDERED CON	MPLETE /	AND MAT	ERIAL S	SHALL N	OT BE O	RDEREI	O BY MA	NUFACT	URER A	ND CAT	ALOG NUMBER	ONLY. TH	E COMPLI	ETE DESCRIPTION AND T
SIS OF	ATION SHALL BE COORDINATED WITH THE ( DESIGN.  ND COORDINATE ALL CEILING TYPES WITH													ST MANUF	FACTURER LISTED IS THE
LESS I	ALL COLORS AND FINISHES OF ALL LUMINA NDICATED ON LIGHTING PLANS OR BELOW, RE MOUNTING HEIGHTS.														
	O SPECIFICATION SECTIONS LIGHTING 26 51 CORRELATED COLOR TEMPERATURE 4100												UIREMEN	ITS.	
				DIMENSIONS		WATT			LIGHT SOURCE TECHNOLOGY		BALLAS	T/DRIVER	1		
H	DESCRIPTION  MERGENCY UNIT, TWO ADJUSTABLE LED EADS, WHITE THERMOPLASTIC HOUSING. ELF TEST & DIAGNOSTICS OF INVERTER	<b>L/L</b>	MTG WL	L 11"	<b>W</b> 3 1/2"	<b>H</b> 7 1/2"	DIA.	MAX ANSI 3 W	<b>PER</b> FIX	TYPE LED	<b>QTY</b> 2	MODEL/ABSO LUTE LUMENS (MIN) 6 VOLT (2 INCLUDED)	<b>VOLTS</b> 120 V	TYPE EM	APPROVED MANUFACTURER DUAL-LITE EVHC LITHONIA ELML4
Al	ND LAMPS						<u> </u>								
IGH	TING SEQUENCE OF (	OPEI	RATI	ON											
PLAN IC {LS1}	Sequence: Switched lights are occupancy or	ontrolled i					LIGHTI	NG SWI	CHED						
	ON: The lights are turn on by occupancy ser OFF: After the space has been vacant for 15	nsor.			tomatical	ly turn of	f.								
~~~		~~~~	^^^	~~~	~~~~	~~~~	~~~~	~~~~	^^~	~~~~	~~~	~~~~~~	~~~~	~~~~	~~~~
															~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

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### **VIEW KEY** INDICATES NOTE USED TO DESCRIBE NAME LEVEL NAME 10' - 0" HEIGHT ABOVE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE PROJECT 0' - 0" SHEET AND/OR DETAIL - INDICATES DIRECTION OF TRUE NORTH — PLAN OR DETAIL NUMBER — PLAN OR DETAIL NAME **VIEW NAME** PLAN OR DETAIL SCALE LINE TYPE KEY: - NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE) - NEW WORK BY OTHERS AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE) ---- EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK SHORT DASHED LINE)

		ELEC	TRICAL	SYMBOL LIST
	SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	E	<u>ECONN</u>	26 27 26	ELECTRICAL CONNECTION
		PANEL '###'		PANELBOARD - SURFACE MOUNT
<u> </u>		<u>FDS-#</u>	26 28 16	FUSED DISCONNECT
	<b>©</b>	<u>FB-1</u>	26 27 26	FLOOR BOX - DUPLEX RECEPTACLE
	<b>=</b>	REC-DUP	26 27 26	DUPLEX RECEPTACLE, 125V
	<del>¥</del>	REC-DUP-GFI	26 27 26	DUPLEX GFI RECEPTACLE, 125V
	₩	REC-QUAD	26 27 26	QUAD RECEPTACLE, 125V
	S	<u>SW-1P</u>		SWITCH - SINGLE POLE
	$s_3$	<u>SW-3W</u>		SWITCH - THREE WAY
	\$ <sub>O</sub>	SW-O	26 09 33	SWITCH - OCCUPANCY SENSOR WALL SWITCH
		<u>F#</u>		TROFFER
	0	<u>F#</u>		DOWNLIGHT LUMINAIRE
		<u>F#</u>		LINEAR LUMINAIRES
	오모	<u>F#</u>		WALL BRACKET LUMINAIRE
		<u>F#</u>		WALL SCONCE LUMINAIRE
	$\otimes$	<u>X#</u>		SINGLE FACE EXIT SIGN
	$\otimes$	<u>X#</u>		DOUBLE FACE EXIT SIGN
	<b>₩</b>	<u>XM#</u>		EMERGENCY UNIT
	PP	<u>PP</u>		PUSH PAD
	(SD)	<u>FA-120</u>	28 31 00	FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED
	F	<u>FA-130</u>	28 31 00	FIRE ALARM MANUAL PULL STATION
	V1 V3 V7 VH	FA-200	28 31 00	FIRE ALARM VISUAL NOTIFICATION DEVICE - WALL MOUNTED
	(V1)(V3) (V7)(VH)(VS)	<u>FA-201</u>	28 31 00	FIRE ALARM VISUAL NOTIFICATION DEVICE - CEILING MOUNTED
	A1 A3 A7 AH AS	<u>FA-211</u>	28 31 00	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE - WALL MOUNTED
	A	<u>FA-230</u>	28 31 00	FIRE ALARM AUDIO NOTIFICATION DEVICE - CEILING MOUNTED
	(A1)(A3) (A7)(AH)	<u>FA-231</u>	28 31 00	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE - CEILING MOUNTED

	·	<del></del>
TAG:	DESCRIPTION:	RELATED SPECIFICATION
<u>DP-#</u>	DISTRIBUTION PANEL	
<u>FB-#</u>	FLOOR BOX	26 27 26
FAP-#	FIRE ALARM - CONTROL PANEL	28 31 00
FDS-#	FUSIBLE DISCONNECT SWITCH, REFER TO DISCONNECT AND STARTER SCHEDULE	26 28 16
~~~~	~~~~~~~~~~	~~}
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**ELECTRICAL EQUIPMENT TAGS** 

### **ELECTRICAL GENERAL NOTES:**

- ##-### INDICATES ELECTRICAL EQUIPMENT DEFINED IN ELECTRICAL SCHEDULES OR SPECIFICATION. REFER TO DRAWINGS CONTAINING ELECTRICAL SCHEDULES. PERMANENT NAMEPLATE SHALL MATCH FINAL EQUIPMENT NOMENCLATURE, NOT ELECTRICAL EQUIPMENT TAG NAME, REFER TO SPECIFICATIONS.
- 2. {L###} INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET E-000.

**LUMINAIRE KEY:** 

F1 = FIXTURE TAG 1 = CIRCUIT NUMBER LUMINAIRE a = SWITCH DESIGNATION

DEVICE KEY: \*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F1 / 1 / a / SE

DEVICE A = MOUNTING (IF APPLICABLE) 1 = CIRCUIT NUMBER

> \*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1

**ELECTRICAL MOUNTING SUBSCRIPT KEY:** 

MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH MOUNT AT CEILING

### **ELECTRICAL RENOVATION NOTES:**

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, AND SYSTEMS.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND

REPORT ANY CONFLICTS BEFORE PROCEEDING. 2. NOT ALL EXISTING EQUIPMENT, LUMINAIRES, AND CONDUIT ARE SHOWN. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS WITH NEW WORK BEFORE STARTING WORK.

3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR CONDUITS BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS. 4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF HIS/HER WORK AND SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO BIDDING IF OTHER UTILITIES ARE

5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS.

REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO HIS/HER AREA OF

6. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING 7. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL

CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO

8. WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.

### **ELECTRICAL INSTALLATION NOTES:**

- 1. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
- 2. CIRCUITS SERVING EMERGENCY LUMINAIRES WILL BE RUN IN A SEPARATE RACEWAY FROM
- ALL OTHER CIRCUITS. 3. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF

THROUGH-PENETRATION FIRESTOPS. REFER TO 26 05 03 FOR ADDITIONAL INFORMATION

- AND REQUIREMENTS SPECIFIC TO FIRESTOPPING. 4. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS AND OCCUPANCY/VACANCY SENSORS. SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN
- 5. CONTRACTOR SHALL VERIFY ALL FURNITURE AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND EQUIPMENT. 6. ELECTRICAL EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF,
- AND ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
- 7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.

8. MOUNTING HEIGHTS SHALL BE AS FOLLOWS: LIGHTING SWITCHES RECEPTACLES (GENERAL AREAS) 1'-6" RECEPTACLES (UTILITY AREAS) TELECOMMUNICATION OUTLET'S WALL PHONE 4'-0" FIRE ALARM STATIONS 4'-0"

FIRE ALARM SIGNALS 7'-6" 1'-6" BELOW FIN. CEIL. CLOCKS/CLOCK OUTLETS

SAFETY SWITCHES

### **ELECTRICAL SHEET INDEX**

5'-0" TO TOP

E-000 **ELECTRICAL COVERSHEET** ED-101 FIRST FLOOR DEMOLITION - ELECTRICAL ED-102 SECOND FLOOR DEMOLITION - ELECTRICAL EL-101 FIRST FLOOR PLAN - LIGHTING EL-102 SECOND FLOOR PLAN - LIGHTING **BASEMENT FLOOR PLAN - POWER** EP-100 FIRST FLOOR PLAN - POWER EP-101

EP-102 SECOND FLOOR PLAN - POWER EP-300 POWER DETAILS ....POWERSCHEDULES..... BASEMENT FLOOR PLAN - SYSTEMS ES-100

ES-101 FIRST FLOOR PLAN - SYSTEMS ES-102 SECOND FLOOR PLAN - SYSTEMS ES-300 SYSTEMS DETAILS

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# NIAGARA ARCHITECTURE

2 2 1 5 COLE STREET

BIRMINGHAM, MICHIGAN 48009 TELEPHONE: 248.646.5765 FACSIMILE: 248.646.5813

NM Project Number - 18113.0

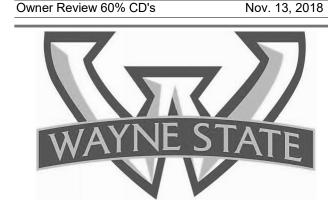
consultants:

IMEG Project Number - 18004050.01

key plan: FLOOR LEVEL NO SCALE AREA OF WORK

issue: date:

Addendum 2 Jan. 04, 2019 For Bids Dec. 11, 2018 100% CD's Dec. 04, 2018 Owner Review 90% CD's Nov. 27, 2018



designed			JEFGLA
drawn			MARABR
coordination	n checked		MIKMIN
checked	MIKMIN	approved	JEFGLA
location		Rands	Ruildina

project:

Rands House - Rackham Relocation

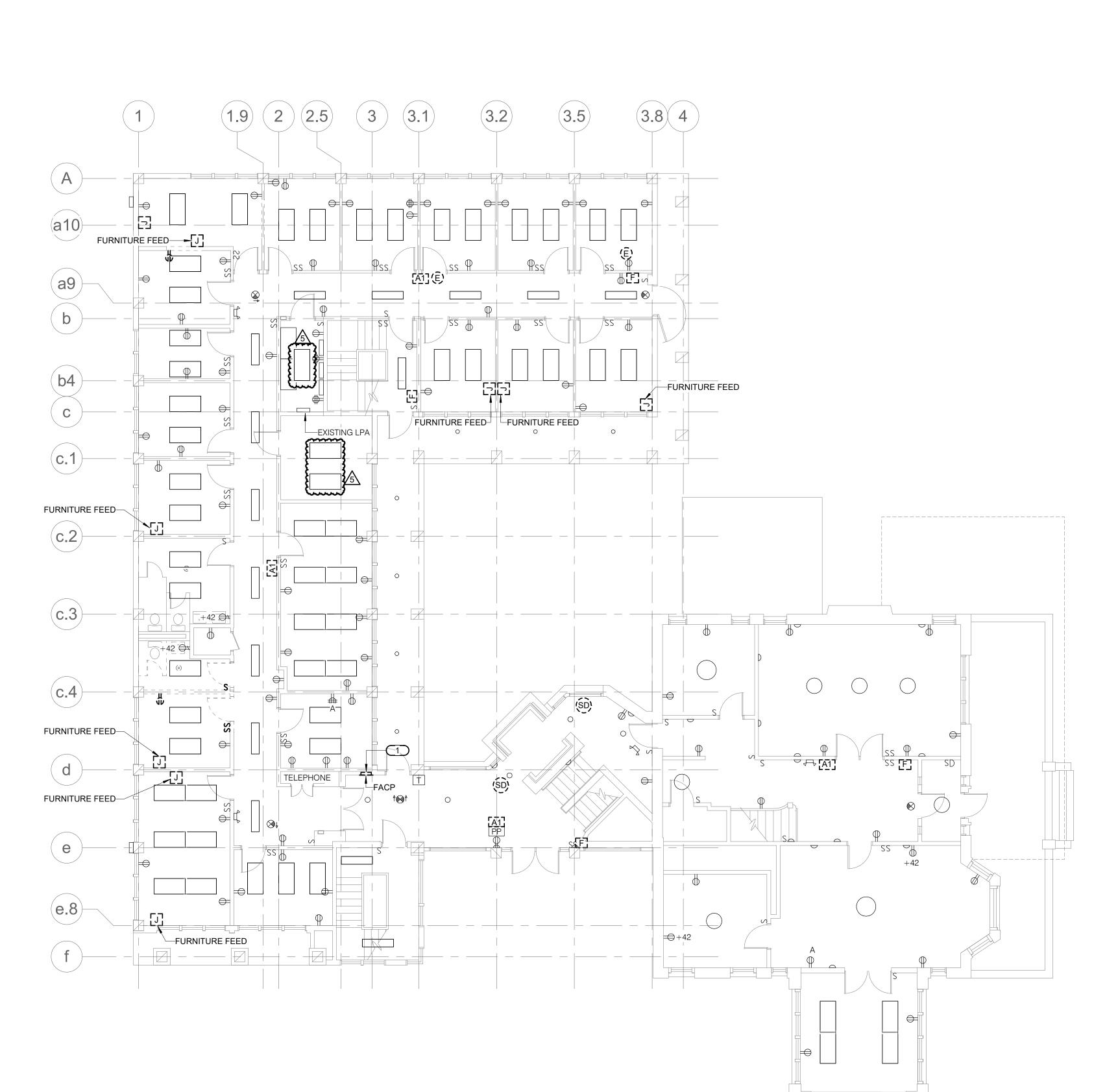
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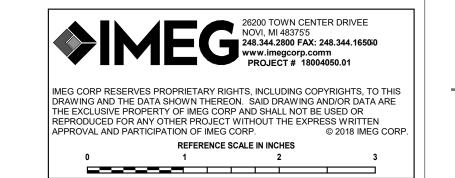
**ELECTRICAL COVERSHEET** 

project number:

KEYNOTES: # . REMOVE/REPLACE EXISTING FIRE ALARM PANEL/SYSTEM. RETAIN CIRCUIT FOR NEW FIRE ALARM PANEL.







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consultants:

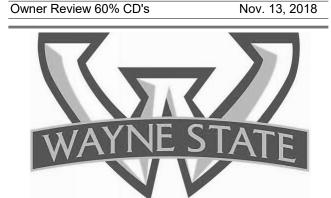
IMEG Project Number - 18004050.01

NM Project Number - 18113.0

key plan: FLOOR LEVEL

date: issue:

Addendum 2 For Bids Dec. 11, 2018 100% CD's Dec. 04, 2018 Owner Review 90% CD's



designed		JEFGL
drawn		MARAE
coordination c	checked	MIKM
checked	MIKMIN	approved JEFGL
location		Rands Buildir

project:

Rands House - Rackham Relocation

sheet title:

FIRST FLOOR DEMOLITION

project number:

**ED-101** 

KEYNOTES: # REMOVE EXISTING FIXTURE AND RELOCATED FOR REUSE.

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consultants:

IMEG Project Number - 18004050.01

NM Project Number - 18113.0

key plan: FLOOR LEVEL

issue:

date:

Addendum 2 Dec. 11, 2018 For Bids 100% CD's Dec. 04, 2018 Owner Review 90% CD's Nov. 27, 2018



designed			JEFGLA
drawn			MARABR
coordination	n checked		MIKMIN
checked	MIKMIN	approved	JEFGLA
location		Rands	Building

project:

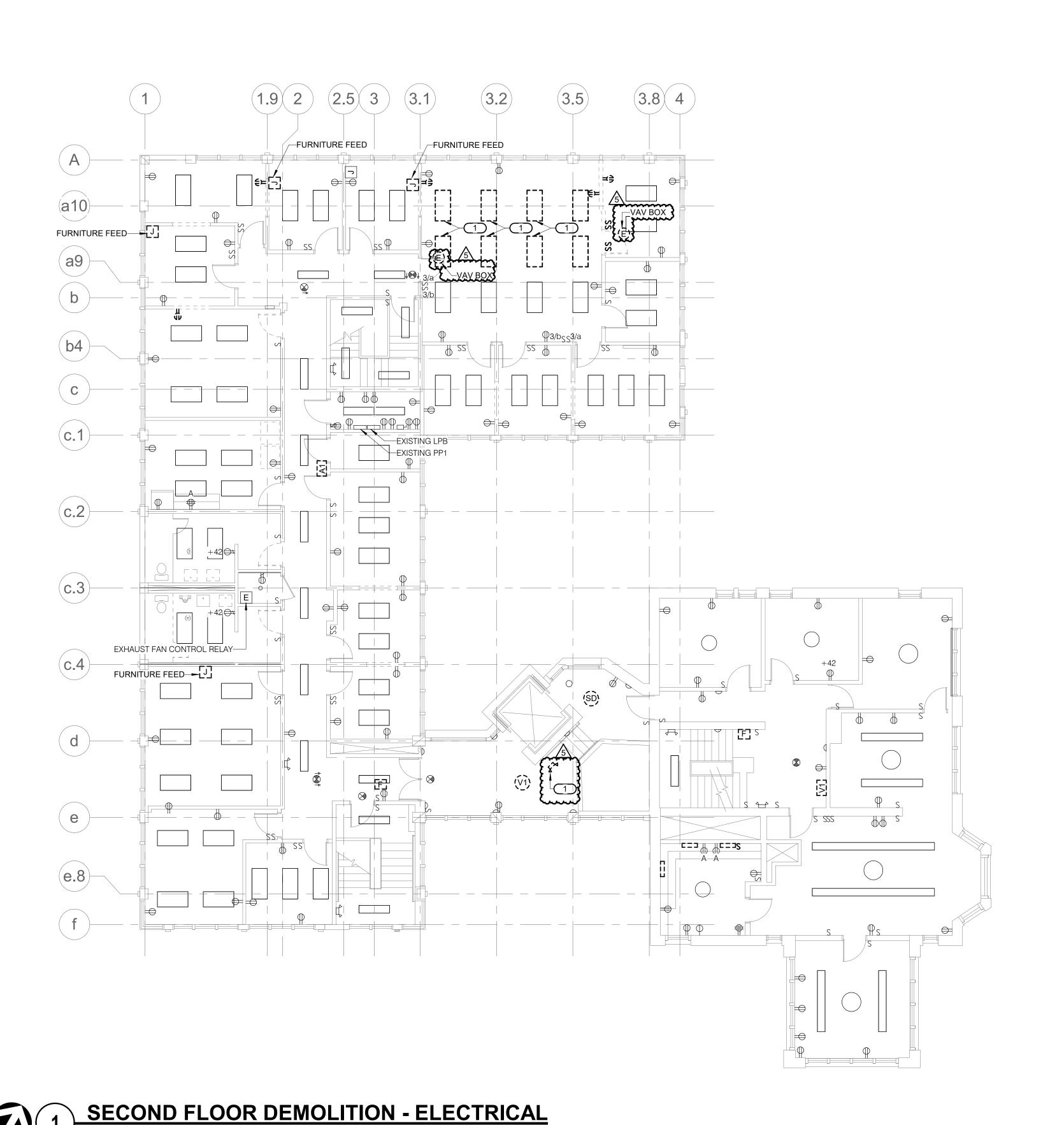
Rands House - Rackham Relocation

sheet title:

SECOND FLOOR DEMOLITION

project number:

sheet number: **ED-102** 



REFERENCE SCALE IN INCHES

REPLACE LAMPS AND BATTERIES IN EXISTING

### KEYNOTES: #

- REPLACE BALLASTS WITH REDUCED WATTAGE BALLASTS.
- EXTEND UNSWITCHED PORTION OF BRANCH CIRCUIT SERVING THIS ROOM TO EMERGENCY

LIGHTING TO FACILITATE CEILING REPLACEMENT. REINSTALL AFTER CEILING REPLACEMENT IS COMPLETE.

### SHEET NOTES :

CLEAN AND RELAMP ALL FIXTURES. SURFACE 2X4 ARE 3-LAMP, SURFACE 1X4 ARE 2-LAMP, AND DOWNLIGHTS, WALL SCONCES, AND DECORATIVE FIXTURES ARE COMPACT FLUORESCENT.

EXIT SIGNS AND EMERGENCY BATTERY UNITS.

# NIAGARA

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IMEG Project Number - 18004050.01

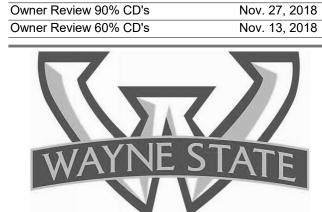
NM Project Number - 18113.0

key plan: FLOOR LEVEL NO SCALE AREA OF WORK

issue:

date:

Addendum 2 For Bids Dec. 11, 2018 100% CD's Dec. 04, 2018

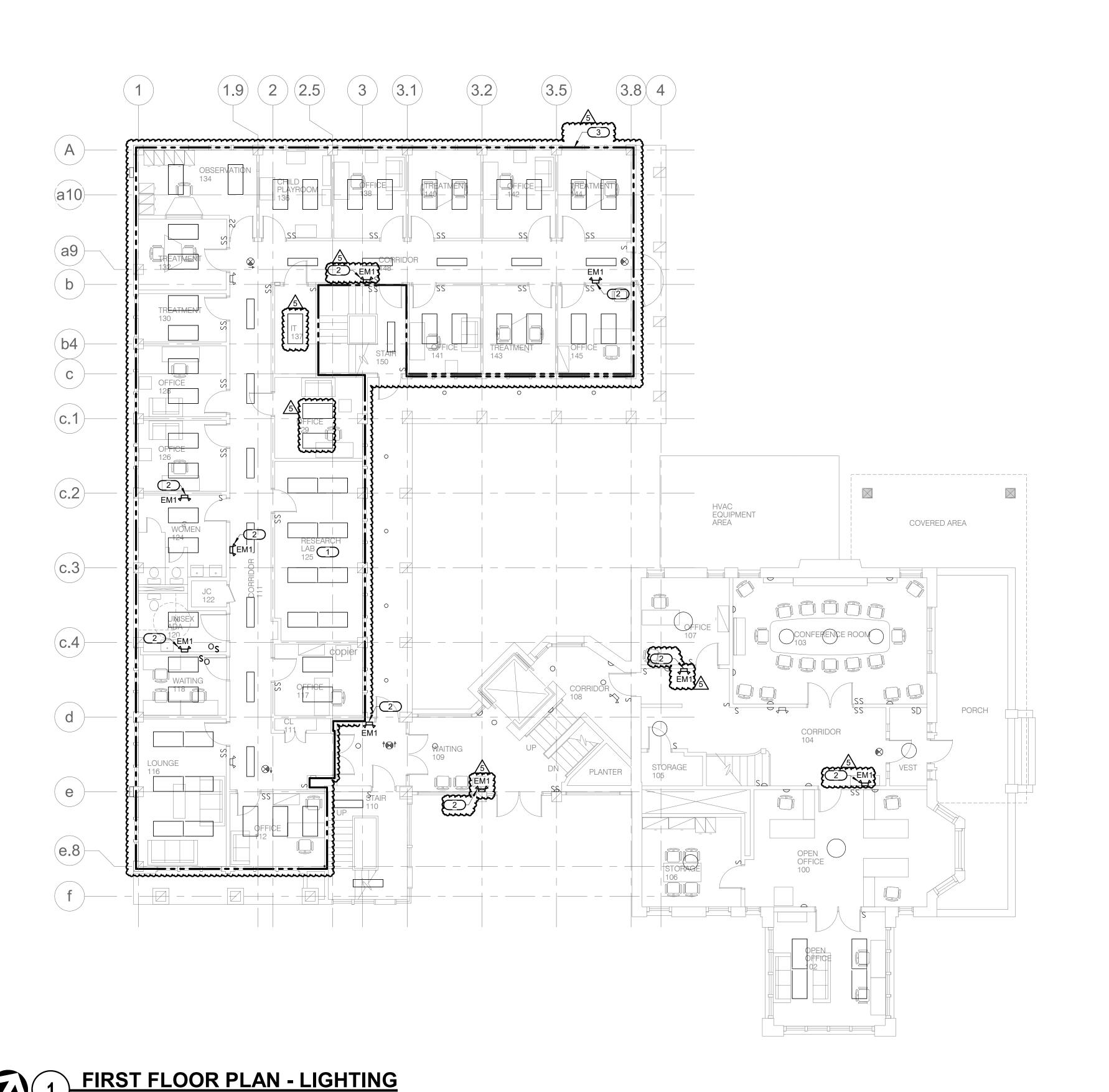


**JEFGLA** designed MARABR drawn coordination checked MIKMIN approved JEFGLA checked location Rands Building

project:

Relocation

project number:





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REFERENCE SCALE IN INCHES

Rands House - Rackham

sheet title:

FIRST FLOOR PLAN - LIGHTING

sheet number: **EL-101** 

### SHEET NOTES :

CLEAN AND RELAMP ALL FIXTURES. SURFACE 2X4 ARE 3-LAMP, SURFACE 1X4 ARE 2-LAMP, AND DOWNLIGHTS, WALL SCONCES, AND DECORATIVE FIXTURES ARE COMPACT

- RELOCATED FIXTURE. EXTEND BRANCH CIRCUIT FROM EXISTING LIGHTING.
- EXTEND UNSWITCHED PORTION OF BRANCH CIRCUIT SERVING THIS ROOM TO EMERGENCY

- FLUORESCENT.
- REPLACE LAMPS AND BATTERIES IN EXISTING EXIT SIGNS AND EMERGENCY BATTERY UNITS.

### KEYNOTES: #

- FIXTURE.

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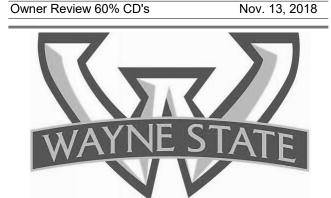
NM Project Number - 18113.0

key plan: FLOOR LEVEL NO SCALE AREA OF WORK



issue: date:

Addendum 2 Jan. 04, 2019 Dec. 11, 2018 For Bids 100% CD's Dec. 04, 2018 Nov. 27, 2018 Owner Review 90% CD's



designed			JEFGLA
drawn		ı	MARABF
coordination check	ked		MIKMIN
checked MIKM	IN	approved	JEFGL/
location		Rands	Building

project:

Rands House - Rackham Relocation

sheet title:

SECOND FLOOR PLAN -

project number: sheet number:

**EL-102** 

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NM Project Number - 18113.0

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KEYNOTES: #

IN PANEL LPA.

EXTEND EXISTING BRANCH CIRCUIT IN ROOM TO NEW DEVICE.
CIRCUIT RECEPTACLE TO SPARE 20A BREAKER

EXTEND BRANCH CIRCUIT FROM THE RECEPTACLE. REFER TO THE 'ELECTRONIC SENSOR WIRING' DETAIL ON SHEET EP-300.
ADD/ALTERNATE
SURFACE MOUNT RECEPTACLES INDICATED.

IMEG Project Number - 18004050.01

key plan: FLOOR LEVEL

issue:

date:

Addendum 2 Jan. 04, 2019

For Bids Dec. 11, 2018

100% CD's Dec. 04, 2018

Owner Review 90% CD's Nov. 27, 2018



designed JEFGLA

drawn MARABR

coordination checked MIKMIN

checked MIKMIN approved JEFGLA

location Rands Building

project:

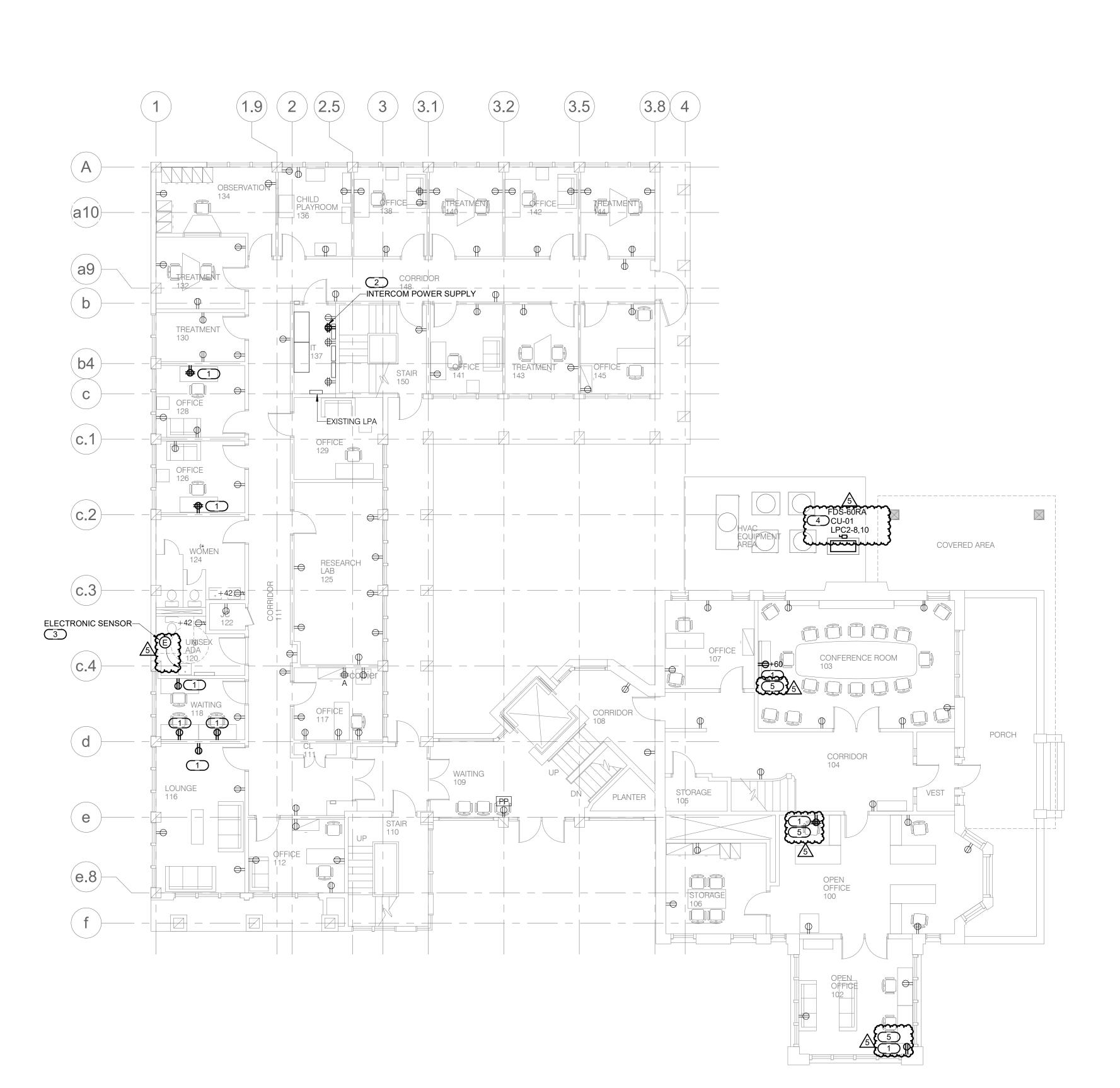
Rands House - Rackham Relocation

sheet title:

FIRST FLOOR PLAN - POWER

ioot number: sheet i

project number: sheet number: WSU: 00 EP-101





### KEYNOTES: #

- EXTEND EXISTING BRANCH CIRCUIT IN ROOM
- TO NEW DEVICE.
  PROVIDE SURFACE RACEWAY FOR
  RECEPTACLE. REFER TO 'SURFACE WIREWAY
- DETAIL' ON SHEET EP-300. ADD/ALTERNATE
- EXTEND BRANCH CIRCUIT FROM THE RECEPTACLE. REFER TO THE 'ELECTRONIC SENSOR WIRING' DETAIL ON SHEET EP-300.

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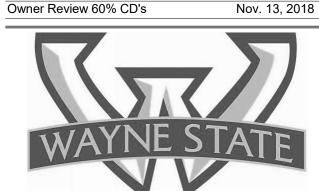
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**JEFGLA** designed MARABR drawn MIKMIN MIKMIN approved JEFGLA

project:

Rands House - Rackham Relocation

sheet title:

SECOND FLOOR PLAN - POWER

**EP-102** 

BIDS





REFERENCE SCALE IN INCHES

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NM Project Number - 18113.0

consultants:

IMEG Project Number - 18004050.01

key plan: FLOOR LEVEL NO SCALE AREA OF WORK

issue:

Nov. 27, 2018 Owner Review 90% CD's



PANEL NAME: LPB

TYPE: BOLT-ON MOUNTING: SURFACE

SOLID NEUTRAL GROUND BUS FED FROM: EXISTING SWITCHBOARD SCCR: EXISTING LOCATION: IT 229

**CONNECTED** 8.7 kVA MAIN: 100 A/MCB VOLTS: 120/208 Wye

PHASE: 3 WIRE: 4 **DEMAND:** 8.72 kVA

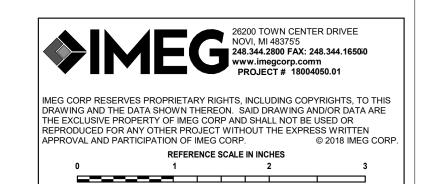
Panel Notes: EXISTING PANEL. PROVIDE NEW BREAKER IN AVAILABLE SPACE FOR CIRCUIT 13. PROVIDE NEW 2 POLE 20A BREAKERS IN AVAILABLE SPACE FOR CIRCUIT 16, 18 AND 35,37. PROVIDE NEW 2 POLE 30A BREAKER IN AVAILABLE SPACE FOR CIRCUIT 39,41.

CKT NO.	LOAD DESCRIPTION	OVERCU PROTE AMPS	JRRENT CTION P	WIRE ID	,	A	E	3		С	WIRE ID	OVERO PROT P	CURRENT TECTION AMPS	LOAD DESCRIPTION	CKT NO.
1	LIGHTING OFFICES 206-210	20 A	1		0	0						1	20 A	CORRIDOR LIGHTING 222	2
3	LIGHTING GENERAL OFFICE 211	20 A	1				0	0				1	20 A	LIGHTING OFFICES 219-220	4
5	LIGHTING OFFICES 212-214	20 A	1						0	0		1	20 A	STAIRWELL LIGHTING	6
7	LIGHTING OFFICES 201-203 & 221	20 A	1		0	0						1	20 A	LIGHTING OFFICES 204	8
9	LIGHTING CONF. 215	20 A	1				0	0				1	20 A	SANYO RM 227 A/C	10
11	EXHAUST FAN #2	20 A	1						0	0		1	20 A	RECEPT. 229	12
13	NEW RECEPTACLES	20 A	1	A2	0.72	0						1	20 A	UNKNOWN LOAD	14
15	SPACE						0	1			A2	•	20. 4	NEW E-CONNECT. FPB-2.1	16
17	MICROWAVE 226	20 A	1						0	1	AZ	2	20 A	NEW E-CONNECT. FPB-2.1	18
19	COFFEE MAKER 226	20 A	1		0	0								SPACE	20
21	OUTLETS OFFICES 210-211	20 A	1				0	0				1	20 A	OUTLETS OFFICES	22
23	OUTLETS OFFICES 211-212	20 A	1						0	0		1	20 A	OUTLETS OFFICES 206-211	24
25	OUTLETS OFFICES 212-214	20 A	1		0	0						1	20 A	OUTLETS OFFICES 202-203	26
27	BATHROOM OUTLETS	20 A	1				0	0				1	20 A	OUTLETS OFFICES 204-215 COR	28
29	OUTLETS OFFICES 220-221	20 A	1						0	0		1	20 A	OUTLETS OFFICES 201-202	30
31	OUTLET RM 219	20 A	1		0	0						1	20 A	CORRIDOR OUTLETS	32
33	OUTLETS OFFICES CONF. 215	20 A	1				0	0				1	20 A	240 COPY MACH.	34
35	NEW E-CONNECT. FPB-2.2	20 A	2	A2					1	0		1	20 A	MENS HAND DRYER	36
37	NEW E-CONNECT. FPB-2.2	20 A	2	AZ	1	0						1	20 A	WOMENS HAND DRYER	38
39	NEW E-CONNECT. FPB-2.3	30 A	2	B2			2	0				1	20 A	ELEC. WATER COOLER	40
41	NEW E-CONNECT. FPB-2.3	30 A	2	DZ					2	0				SPACE	42
		Tot	al Load:		1.72	kVA	3 k	VA	4 k	VΑ			•		
		Tota	I Amps:		14	.33	26	.64	34	.97					

			P	ANI	EL I	NAN	ИE:	LP	C2				CO	NNECTED 6.6 kVA	
	TYPE: BOLT-O	N												MAIN: 250 A/MCB	
	MOUNTING: SURFAC	Œ					SOL	ID NEU	JTRAL					VOLTS: 120/208 Wye	
	FED FROM:						GR	OUND	BUS					PHASE: 3	
	SCCR: EXISTIN	IG												WIRE: 4	
	LOCATION: BASEMI	ENT												<b>DEMAND:</b> 6.61 kVA	<b>\</b>
		~~~~	~~~~	***									~~~~		<u>~~~~</u>
Pane	I Notes: EXISTING PANEL PROVIDE SPACE FOR CIRCUIT 8, 10.	NEW 2 PO	DLE 20A	BREA	KER IN	AVAIL	ABLE S	SPACE	FOR (	CIRCU	IIT 11, 1	3. PRO\	IDE NEW	/ 2 POLE 40A BREAKER IN AVAILAI	BLE
	SPACE FOR CIRCUIT 8, 10.	A. A. A. A. A. A.	- A- A- A- A-	A. A. A. A	- do do do .	la da da da	. As As As		An An An I	A. A. A. A	h da da da	A. A. A. A. A.	. 4. 4. 4. 4. 4		. An An An An An
														1	
		OVERC	URRENT	WIRE				_		_	WIRE	OVERC	URRENT	•	
СКТ		PROT	ECTION	ID	/	4		В	(	C	ID	PROT	ECTION		CKT
NO.	LOAD DESCRIPTION	AMPS	P									Р	AMPS	LOAD DESCRIPTION	NO.
1	FURNACE #1	20 A	1		0	0						1	20 A	SUITE 200 LIGHTS	2
3	FURNACE #2	20 A	1				0	0				1	20 A	SUITE 200 RECEPT.	4
5	FURNACE #4	20 A	1						0	0	~~~	1	20 A	SUITE 200 RECEPT. /1	6
7	OUTSIDE FRONT WALL PACKS	20 A	1		0	3.12					B2	2	40 A	NEW FDS-60RA - CU-01/	8
9	SUMP PUMP	20 A	1				0	3.12			<b>E</b>	2	40 A	NEW E-CONNECT. AC-01	10
11	NEW E-CONNECT. HRV-1	20 A	2	A2					0.19	0				SPACE	12
13	NEW E-CONNECT. HRV-1	20 A		AZ	0.19	0								SPACE	14
	SPACE						0	0						SPACE	16
15	SPACE								0	0				SPACE	18
15 17		T-/	al Load:		3.31	kVA	3.12	kVA	0.19	kVA					
		101	a. Loua.									1			
			al Amps:		31	.32	29	.76	1.	56					

DISCO	NNECT	SCHE	DULE				
		NOTE: ALL	DISCONNECT	S (EXCEP	T MANUAL STA	RTERS) SHALL BE HEAVY	DUTY TYPE.
DISCONNEC	CT TYPE:						
FU - FUSED							
		ECT TYPE &	CIRCUIT		NEMA		
ITEM	TYPE	RATING	<b>VOLTAGE</b>	POLES	ENCLOSURE	REMARKS	APPROVED MANUFACTURERS
FDS-60RA	FU	60 A	208 V	3	3R	FUSED AT 40 AMPS	SQUARE D 3110 H322RB EATON TYPE DH GENERAL ELECTRIC TYPE TH

WIRE ID		HW/THWN COPF _CONDUCTORS		EQUIPMENT GROUNDING		
וט	2 WIRE	3 WIRE	4 WIRE	CONDUCTOR	CONDUIT	
A#	2#12	3#12	4#12	1#12	3/4"	
B#	2#10	3#10	4#10	1#10	3/4"	
C#	2#8	3#8	4#8	1#10	3/4"	
D#	2#6	3#6	4#6	1#10	1"	
E#	2#4	3#4	4#4	1#8	1 1/4"	
F#	2#3	3#3	4#3	1#8	1 1/4"	
G#	2#2	3#2	4#2	1#8	1 1/4"	
H#	2#1	3#1	4#1	1#6	1 1/2"	
J#	2#1/0	3#1/0	4#1/0	1#6	2"	



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Addendum 2 Jan. 04, 2019



**JEFGLA** designed MARABR drawn coordination checked MIKMIN approved JEFGLA location Rands Building

project:

Rands House - Rackham Relocation

sheet title:

**POWER SCHEDULES** 

sheet number: project number:

**EP-500** 

,	
APPLICAB	SLE CODES
CONTRACTOR SHALL COMPLY WITH APPL	LICABLE CODES AND LOCAL AMENDMENTS.
BUILDING CODE:	MBC 2015 EDITION
FIRE CODE:	NFPA 13: 2013 EDITION
PLUMBING CODE:	MBC 2015 EDITION
MECHANICAL CODE:	MMC 2015 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2014 EDITION
LIFE SAFETY CODE:	NFPA 101 2015 EDITION
ENERGY CONSERVATION CODE:	ASHRAE 90.1 2013
HEALTH DEPARTMENT CODE:	CURRENT EDITION
LOCAL BUILDING CODE:	CURRENT EDITION

	CONTRACTOR ABBREVIATION KEY						
ABBR:	DESCRIPTION:						
A.C.	ASBESTOS ABATEMENT CONTRACTOR						
A.V.C.	AUDIO/VISUAL CONTRACTOR						
E.C.	ELECTRICAL CONTRACTOR						
G.C.	GENERAL CONTRACTOR						
H.C.	HEATING CONTRACTOR						
M.C.	MECHANICAL CONTRACTOR						
P.C.	PLUMBING CONTRACTOR						
S.C.	SECURITY CONTRACTOR						
T.C.	TECHNOLOGY CONTRACTOR						
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR						
V.C.	VENTILATION CONTRACTOR						

	TECHNOLOGY SYMBOL LIST					
SYMBOL:	EQUIPMENT LIST ABBREV.:	DESCRIPTION:	NOTE			
C# ▼	SC-IO-W	INFORMATION OUTLET (WALL)	1.			
<b>©</b>	N/A	POKE THROUGH FOR FURNITURE FEED				
JB1 #	AV-JB1-W	TECHNOLOGY JUNCTION BOX - WALL - TYPE 1				
CR1	AC-CR1-W	CREDENTIAL READER - TYPE 1 - ROUGH IN				
IM1		INTERCOM MASTER STATION - TYPE 1 (WALL)				
		INTERCOM STATION - TYPE 1 (WALL)				
		CLOSED CIRCUIT TELEVISION (CCTV) WALL CAMERA				
CAM	AV-CAM-1	AV CEILING CAMERA				
DIAME	TERø C——	CONDUIT				
	<del></del> ə	CONDUIT DOWN				
		CONDUIT UP OR UP/DOWN				
<u> </u>		CONDUIT SLEEVE				
<b>S</b>		CONTINUATION				
		GENERAL NOTES:				

- ALL SYMBOLS AND ABBREVIATIONS LISTED MAY NOT BE APPLICABLE TO THIS PROJECT. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE COMPLETE DESCRIPTION AND ITEMS.
- ALL SYMBOLS AND ABBREVIATIONS REFER TO TECHNOLOGY SHEETS ONLY AS DEFINED ON THE SHEET INDEX. REFER TO THE GENERAL TECHNOLOGY NOTES FOR ADDITIONAL
- ALL SYMBOLS LISTED ABOVE ARE FOR REFERENCE ONLY. REFER TO PLANS AND LINE TYPE KEY FOR NEW, EXISTING TO REMAIN AND TO BE REMOVED ITEMS FOR ADDITIONAL INFORMATION.

**TECHNOLOGY SYMBOL NOTES:** 

"C#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION. REFER TO INFORMATION OUTLET SCHEDULE ON T-400 FOR ADDITIONAL INFORMATION.

ii ii Oi iiii	
	TECHNOLOGY ABBREVIATION KEY
ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
BFC	BELOW FINISHED CEILING
С	CONDUIT
J-BOX	JUNCTION BOX
SIM	SIMILAR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
+#	MOUNTING HEIGHT ABOVE FINISHED FLOOR
EF-#	ENTRANCE FACILITY
MC-#	MAIN CROSS-CONNECT
TR-#	TELECOMMUNICATIONS ROOM

ADA GUIDELINES - FRONT ACCESS

SUGGESTED MA	TRIX OF	<b>RESPO</b>	<b>NSIBILI</b> 1	<u> </u>
ITEM:	SHOWN ON:	FURNISHED BY:	INSTALLED BY:	NOTES:
TECHNOLOGY ROUGH-IN, REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION	T-SERIES	E.C.	E.C.	3. 4.
INFORMATION OUTLET FACEPLATES, JACKS, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)	T-SERIES	E.C.	E.C.	
CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	T.C.	2. 4.
TELECOMMUNICATION SYSTEMS ROUGH-IN	T-SERIES	E.C.	E.C.	1.
TELECOMMUNICATION EQUIPMENT, CABLING, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
GROUNDING LUGS ON TECHNOLOGY EQUIPMENT	T-SERIES	T.C.	E.C.	5.
LINE VOLTAGE POWER (+120V OR GREATER)	E-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	E.C.	2. 4.
LOW VOLTAGE CABLING FOR TECHNOLOGY SYSTEMS	T-SERIES	T.C.	T.C.	
CABLE HANGERS AND SUPPORTS OR OTHER CABLE ROUTING METHODS (OTHER THAN CONDUIT AND CABLE TRAY)	T-SERIES	T.C.	T.C.	5.
FLOOR BOX (ROUGH-IN)	T & E SERIES	E.C.	E.C.	

### SUGGESTED MATRIX OF RESPONSIBILITY NOTES

- LOCATIONS OF TELECOMMUNICATIONS ROUGH-INS SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOLS ON THE DRAWINGS. REFER TO THE TECHNOLOGY SYMBOL LIST FOR ADDITIONAL INFORMATION.
- BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS, ALL REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS FOR ALL ACCEPTABLE MANUFACTURERS.
- INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE CONTRACT DOCUMENTS.
- ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF THE T.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR SHALL BE INCLUDED IN THE T.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN. FURNISHED AS PART OF THE EQUIPMENT WHEN POSSIBLE, OR FURNISHED TO THE E.C. FOR INSTALLATION IN THE FIELD.

ADA GUIDELINES - SIDE ACCESS

### **TECHNOLOGY GENERAL NOTES:**

- 1. ###-### INDICATES GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ITEM LABELED AS "EQUIPMENT LIST ABBREVIATION"
- 2. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR FULL DESCRIPTIONS AND MANUFACTURERS OF ALL DEVICES.
- TECHNOLOGY MOUNTING SUBSCRIPT KEY:
- MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
- MOUNT ORIENTED HORIZONTALLY
- MOUNT IN CASEWORK MOUNT IN MODULAR FURNITURE
- MOUNT IN SURFACE RACEWAY

### A SLASH IS USED BETWEEN TWO SUBSCRIPTS, E.G., A/H.

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS

**TECHNOLOGY INSTALLATION NOTES:** 

- ON THIS PAGE FOR ADDITIONAL INFORMATION. 2. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON
- BUILDING STRUCTURE. 3. BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE
- ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER. 4. VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL TELECOMMUNICATIONS INSTALLATION, ADJUST OUTLETS OR CONNECTION
- LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT. 5. TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TELECOMMUNICATION DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN
- ADVANCE BY THE OTHER CONTRACTOR. 6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR
- SEALED INTO OPENINGS. 7. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO 26 05 03 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
- 8. REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF TELECOMMUNICATIONS WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.
- 9. FLUSH MOUNT ALL TELECOMMUNICATION OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
- 10. MOUNTING HEIGHTS SHALL BE AS FOLLOWS LIGHTING SWITCHES RECEPTACLES (GENERAL AREAS) 1'-6" RECEPTACLES (UTILITY AREAS) 4'-0" TELECOMMUNICATION OUTLETS 1'-6" 4'-0" WALL PHONE
- FIRE ALARM STATIONS 4'-0" FIRE ALARM SIGNALS CLOCKS/CLOCK OUTLETS SAFETY SWITCHES
  - 1'-6" BELOW FIN. CEIL. 5'-0" TO TOP

### **TECHNOLOGY SHEET INDEX**

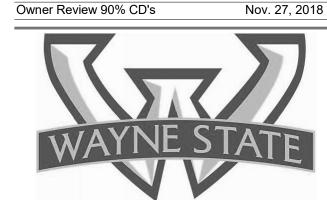
T-000 **TECHNOLOGY COVERSHEET** FIRST FLOOR DEMOLITION - TECHNOLOGY TD-101 SECOND FLOOR DEMOLITION - TECHNOLOGY TD-102 FIRST FLOOR PLAN - TECHNOLOGY T-101 T-102 SECOND FLOOR PLAN - TECHNOLOGY

Addendum 2 Jan. 04, 2019 For Bids Dec. 11, 2018 100% CD's

key plan: FLOOR LEVEL

NO SCALE AREA OF WORK

issue:



WAYNE STATE

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Dec. 04, 2018

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Rands House - Rackham Relocation

sheet title:

NOVI, MI 483755 248.344.2800 FAX: 248.344.16500

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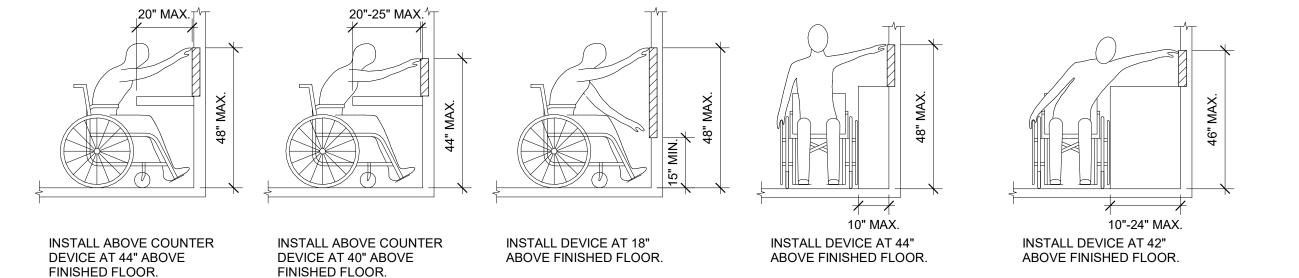
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**TECHNOLOGY COVERSHEET** 

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ADA STANDARDS FOR ACCESSIBLE DESIGN



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REFER TO SHEET T-000 FOR TECHNOLOGY SYMBOL LIST AND LINE TYPE KEY.

**GENERAL NOTES**:

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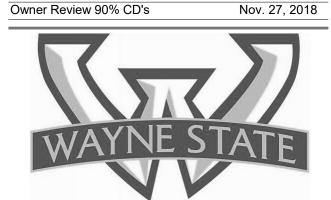
IMEG Project Number - 18004050.01

NM Project Number - 18113.0

key plan: FLOOR LEVEL

date: issue:

Addendum 2 For Bids Dec. 11, 2018 100% CD's



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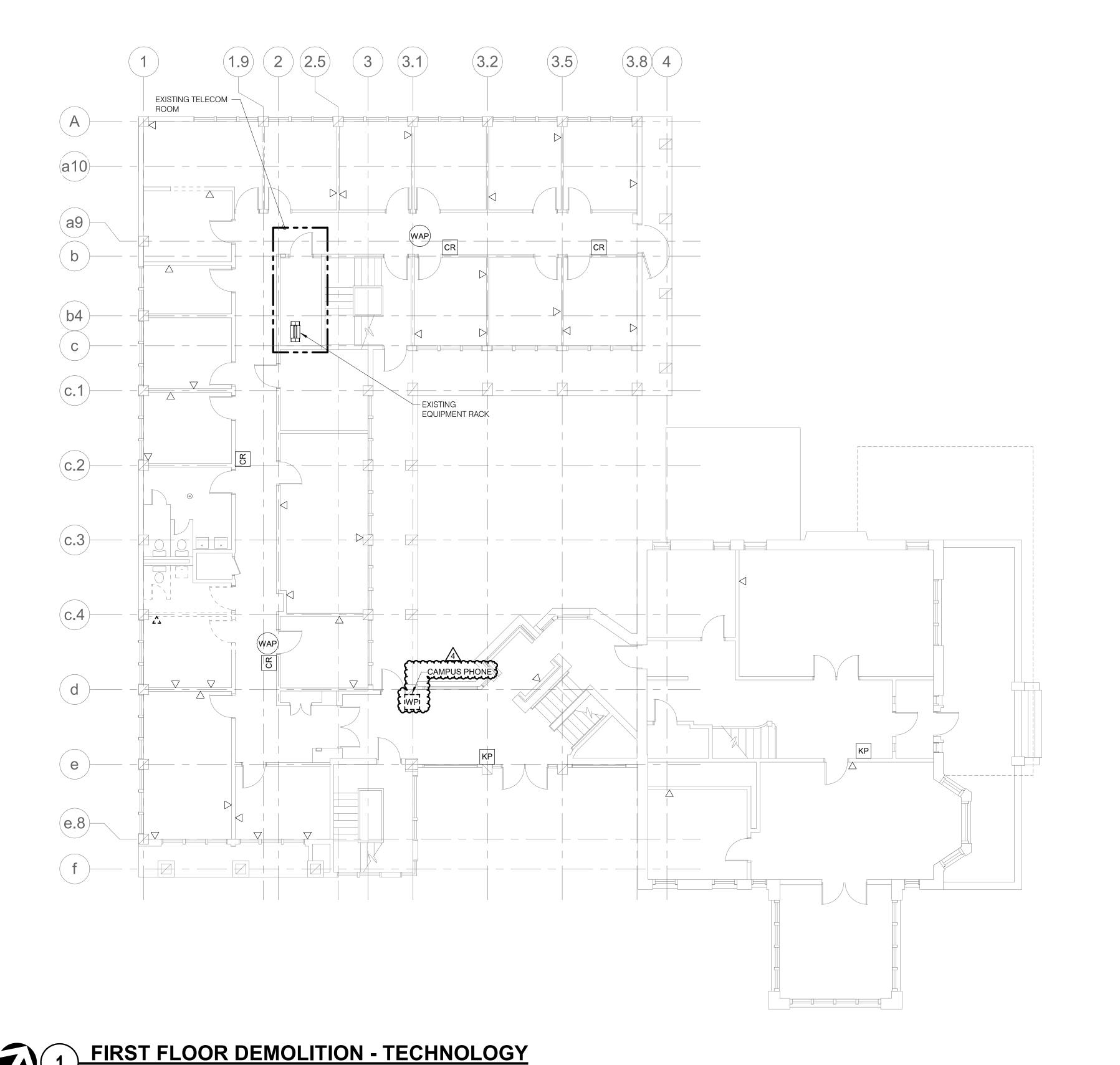
Rands House - Rackham Relocation

sheet title:

FIRST FLOOR DEMOLITION -**TECHNOLOGY** 

project number:

sheet number: **TD-101** E



SYMBOL LIST AND LINE TYPE KEY.

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consultants:

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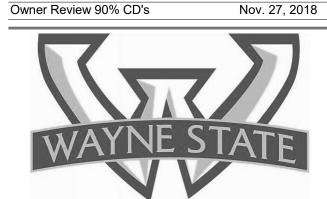
NM Project Number - 18113.0

key plan: FLOOR LEVEL



date: issue:

Addendum 2 For Bids Dec. 11, 2018 100% CD's Dec. 04, 2018



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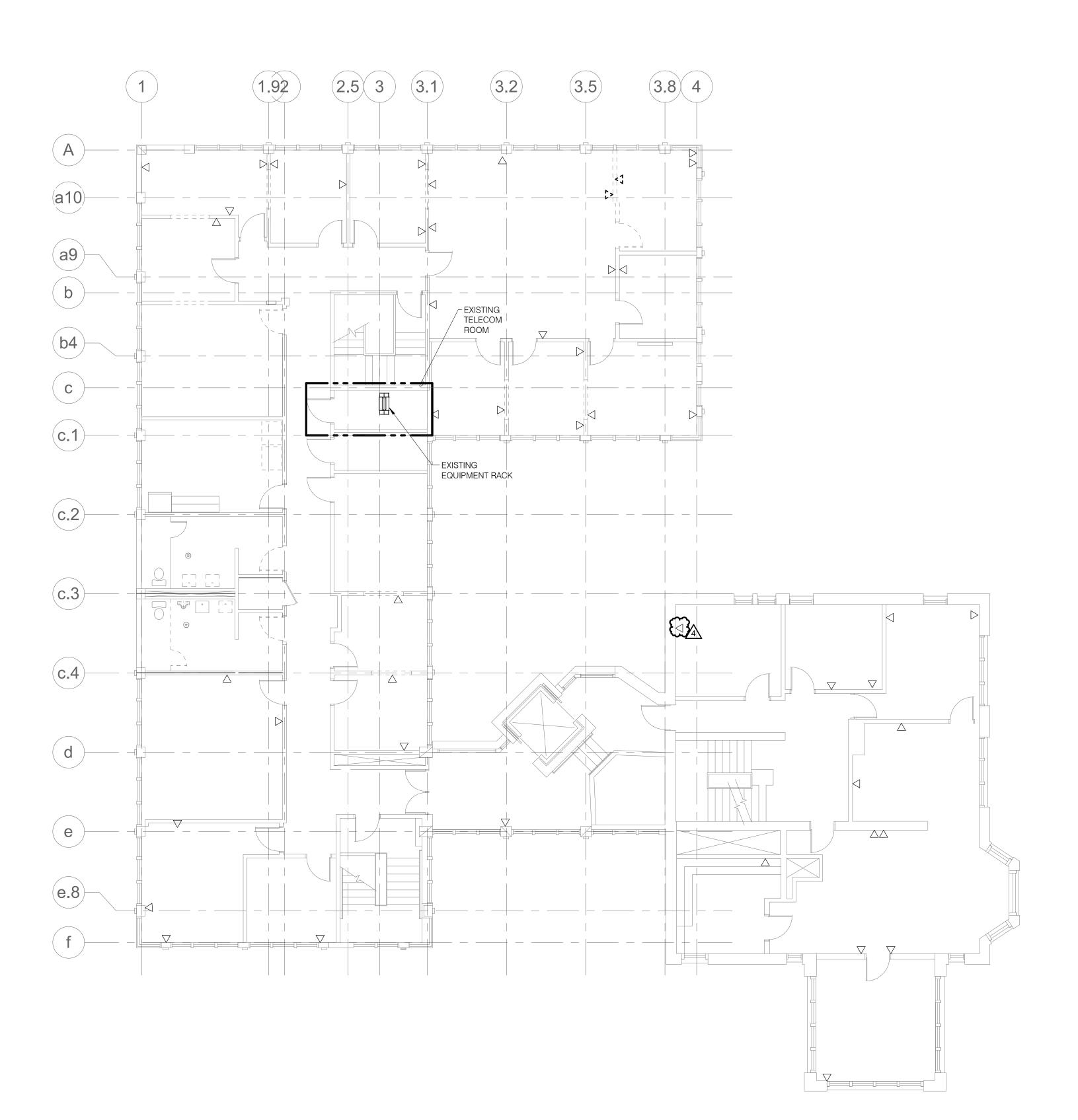
Rands House - Rackham Relocation

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SECOND FLOOR DEMOLITION -**TECHNOLOGY** 

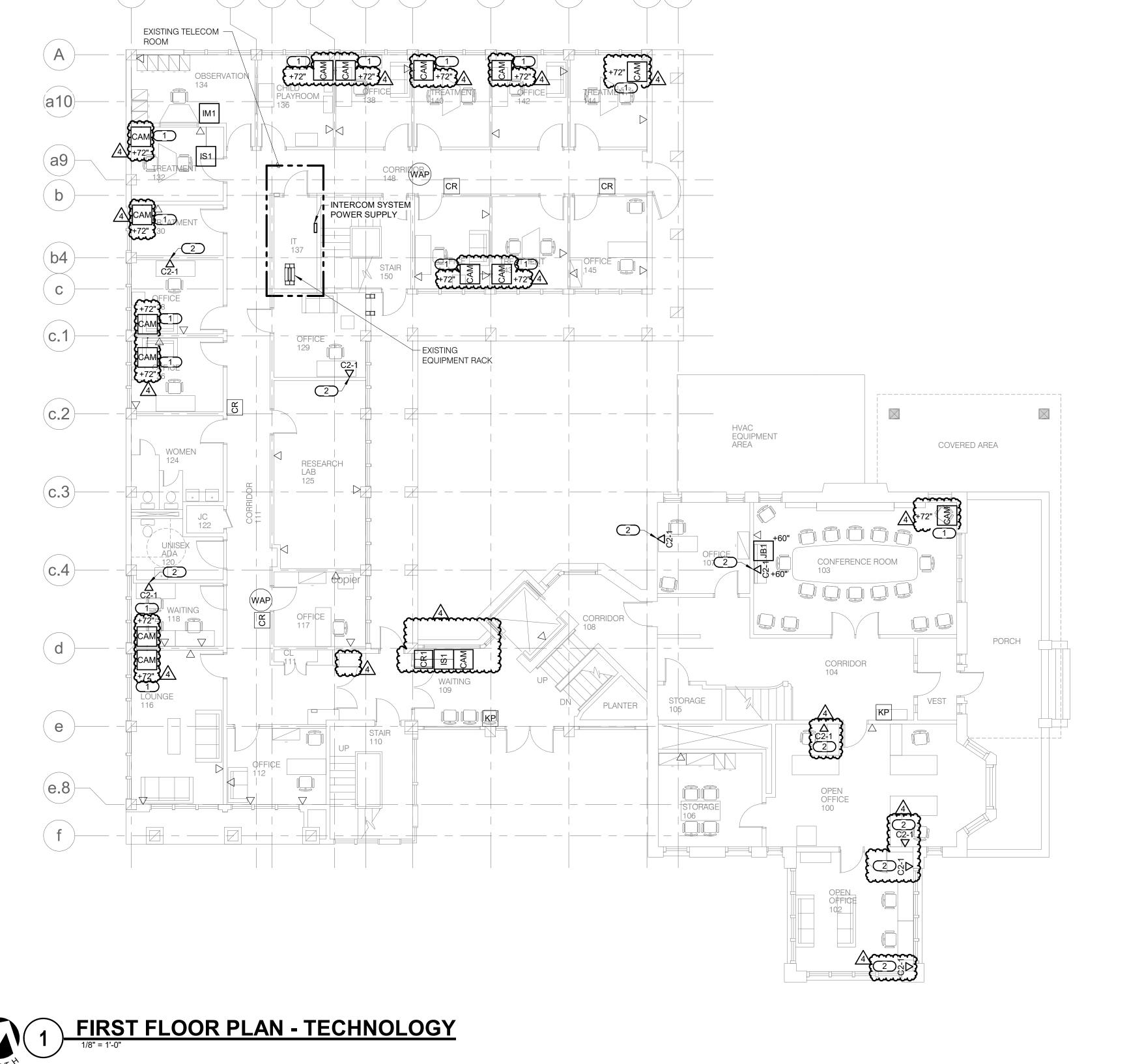
project number: sheet number:

**TD-102** 🖺





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- REFER TO T-000 FOR TECHNOLOGY SYMBOL LIST AND GENERAL TECHNOLOGY
- INSTALLATION NOTES. REFER TO T-400 FOR GENERAL TECHNOLOGY

### KEYNOTES: #

EQUIPMENT SCHEDULE.

CAMERA PROVIDED FOR CONNECTION TO OWNER FURNISHED OBSERVATION RECORDING SYSTEM. CONTRACTOR TO PROVIDE CAMERA, MOUNT, AND CABLING TO OFE NETWORK RECORDING SYSTEM. PROVIDE SURFACE RACEWAY FOR

TECHNOLOGY OUTLETS INDICATED.

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5454 Cass Avenue Detroit, MI 48202



consultants:

IMEG Project Number - 18004050.01

NM Project Number - 18113.0

key plan: FLOOR LEVEL NO SCALE AREA OF WORK

issue: date:

Addendum 2 For Bids Dec. 11, 2018 100% CD's Dec. 04, 2018



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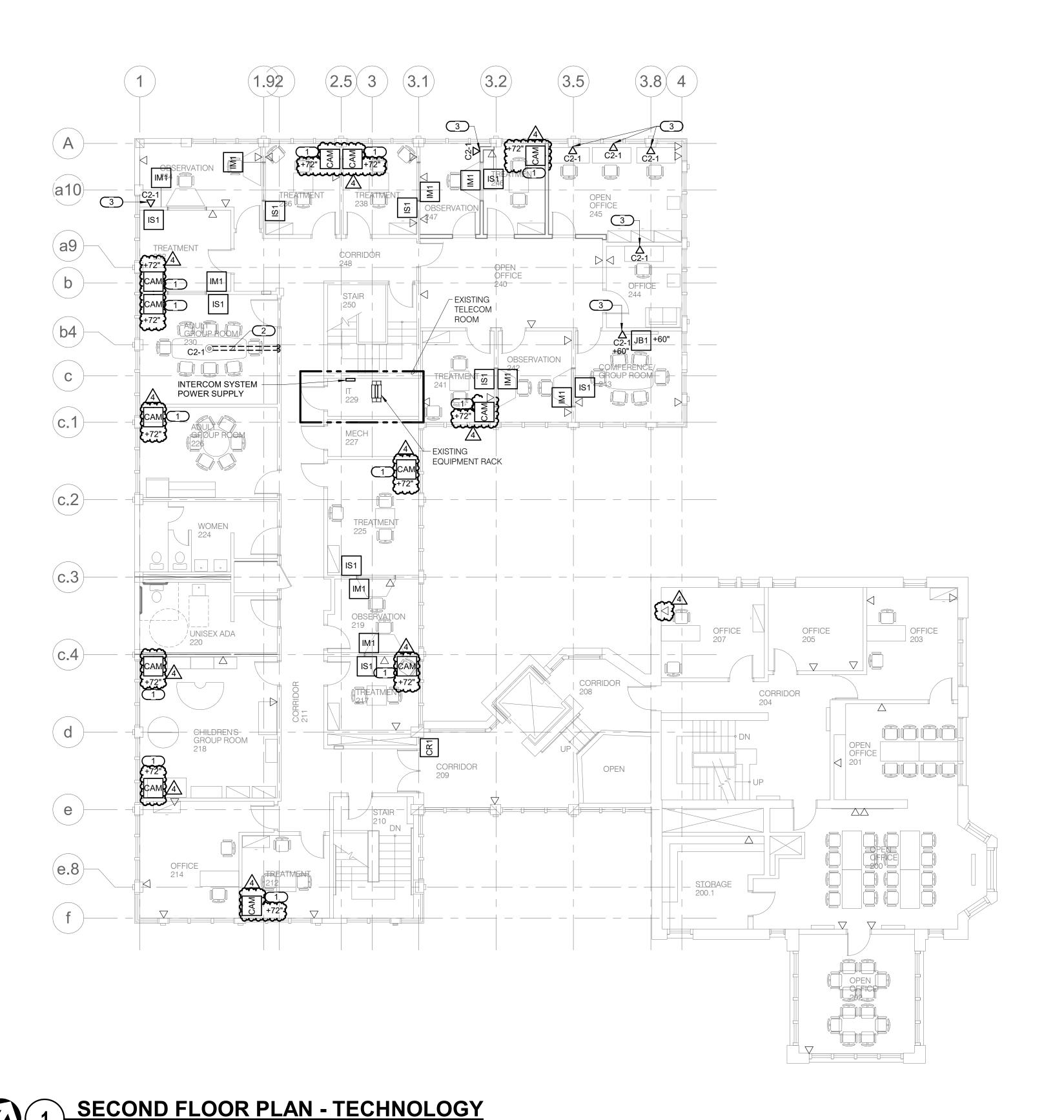
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FIRST FLOOR PLAN -**TECHNOLOGY** 

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- REFER TO T-000 FOR TECHNOLOGY SYMBOL LIST AND GENERAL TECHNOLOGY

### KEYNOTES: #

- CAMERA PROVIDED FOR CONNECTION TO OWNER FURNISHED OBSERVATION RECORDING SYSTEM. CONTRACTOR TO PROVIDE CAMERA, MOUNT, AND CABLING TO OFE NETWORK RECORDING SYSTEM.
- AV DEVICES.

- INSTALLATION NOTES.
- REFER TO T-400 FOR GENERAL TECHNOLOGY EQUIPMENT SCHEDULE.

- PROVIDE (2)2" CONDUITS STUBBED TO ACCESSIBLE CEILING FOR OWNER FURNISHED
- PROVIDE SURFACE RACEWAY FOR TECHNOLOGY OUTLETS INDICATED.

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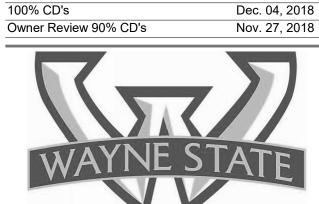
NM Project Number - 18113.0

key plan: FLOOR LEVEL NO SCALE AREA OF WORK



issue: date:

Addendum 2 For Bids Dec. 11, 2018



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location		Rands	Building

project:

Rands House - Rackham Relocation

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SECOND FLOOR PLAN -**TECHNOLOGY** 

project number:

T-102

### GENERAL TECHNOLOGY EQUIPMENT SCHEDULE

THE MATERIAL LIST ABBREVIATIONS AND THE TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.

CATALOG NUMBERS ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS

EQUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	EQUIPMENT LIST MANUFACTURER AND MODEL
AC-CR1-W	ROUGH IN PROVIDED FOR ACCESS CONTROL CREDENTIAL READER. REFER TO 3/T-300 FOR CONTROLLED SECURITY SCHEME DOOR ROUGH-IN DETAIL.	*
AV-CAM-1	AUDIO VISUAL PTZ CAMERA.INDOOR CEILING MOUNT WITH 1920 X 1080 RESOLUTION,FOCAL LENGTH: 4.7-47 MM,1/66500 AT 2 SEC ILLUMINATION, 1/2.8" PREGRESSIVE SCAN WITH CMOS, 360 DEGREE UNINTERRUPTED PAN AND WDR. PROVIDE WITH ALL NECESSARY MOUNTING ACCESSORIES.	AXIS M5525 E OR PRE-APPROVED EQUAL
AV-JB1-W	AUDIOVISUAL JUNCTION BOX. PROVIDED FOR CONNECTIONS FOR OWNER-FURNISHED MULTIMEDIA SYSTEM(S).	*
IC-IM1	INTERCOM MASTER STATION. DESK OR WALL MOUNT WITH ABS HOUSING AND LED, CALL TONE INDICATORS. 300 mA	AIPHONE
IC-IIVI I	POWER CONSUMPTION. INSTALL WITHIN 4" SQUARE BACKBOX WITH PLASTER RING AND PROVIDE (!) 1" C TO NEAREST ACCESSIBLE CEILING.	LEF-3
		OR PRE-APPROVED EQUAL
IC-IS1	INTERCOMM DOOR STATION. WALL MOUNT. ABS PLASTIC HOUSING. PUSH TO TALK OR OPEN VOICE HANDSFREE COMMUNICATION. INSTALL WITHIN 4" SQUARE BACKBOX WITH PLASTER RING. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING.	AIPHONE LE-B
		OR PRE-APPROVED EQUAL
SC-IO-W	INFORMATION OUTLET, WALL MOUNT, 3 PORT COVERPLATE AS INDICATED ON DRAWINGS.  "#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE PLANS. REFER TO T-000 FOR	COVERPLATE: COMMSCOPE SYSTIMAX M13L - 262
	INFORMATION OUTLET SCHEDULE FOR PIN CONFIGURATION.	JACK:
	INSTALL INFORMATION OUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. INSTALL A 1" EMT CONDUIT TO TELECOM ROOM. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS (SYSTIMAX M20AP SERIES OR APPROVED EQUAL)	COMMSCOPE SYSTIMAX CAT6 UNJ600-OR (ORANGE) UNJ600-WH (WHITE)
		HUBBELL ORTRONICS



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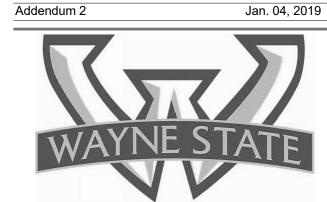
IMEG Project Number - 18004050.01

NM Project Number - 18113.0

key plan: FLOOR LEVEL NO SCALE AREA OF WORK



issue: date:



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project:

Rands House - Rackham Relocation

sheet title:

**TECHNOLOGY SCHEDULES** 

project number: she

sheet number: T-400

