ELECTRICAL LEGEND

	RACEWAYS		BOXES AND WIRING DEVICES		ABBREVIATIONS		
/	RACEWAY CONCEALED IN FLOOR OR UNDERGROUND.	Ш.	JUNCTION BOX, WALL-MOUNTED. MOUNT 18" AFF, UON.	AFF/AFG/ARF	ABOVE FINISHED FLOOR/GRADE/RAISED FLOO	OR	
\frown	RACEWAY CONCEALED IN CEILING CAVITY OR WALL.	J	JUNCTION BOX, BELOW RAISED FLOOR.	ARCH	ARCHITECT/ARCHITECTURAL	F	FUSED
	RACEWAY EXPOSED TO VIEW UNLESS OTHERWISE NOTED.	J	JUNCTION BOX, ABOVE CEILING.	BEL	BELOW	FA	FIRE ALARM
~~~~	FLEXIBLE RACEWAY.	₿	DUPLEX RECEPTACLE OUTLET, WALL-MOUNTED. MOUNT 18" AFF, UON.	BF	BELOW FLOOR	LMNR	LUMINAIRE
	RACEWAY HOMERUN TO PANEL, ONE ARROWHEAD PER CIRCUIT.	<b>#</b>	DOUBLE DUPLEX RECEPTACLE OUTLET, WALL-MOUNTED. MOUNT 18" AFF,	BM	BEAM	FL	FLOOR
A.,	3 WIRES #12 AWG IN CABLE OR CONDUIT, EXCLUDING GROUNDING CONDUCTOR.	₽	UNLESS OTHERWISE NOTED. DUPLEX RECEPTACLE OUTLET, WALL-MOUNTED, ABOVE COUNTER.	С	CONDUIT	G	GROUND
<u> </u>	NOTE: NUMBER OF CROSS HATCHES INDICATES NUMBER OF #12 AWG CONDUCTORS, LESS GROUNDING CONDUCTOR. SHORT CROSS HATCH = PHASE CONDUCTOR. LONG CROSS HATCH = NEUTRAL_NO CROSS HATCHES INDICATES 2 #12 AWG EXCLUDING GROUNDING CONDUCTOR	Ħ	GFCI DUPLEX RECEPTACLE OUTLET, WALL-MOUNTED.	СВ	CIRCUIT BREAKER	GFP	GROUND FAULT PROTECTION SYSTEM FOR EQUIPMENT PROTECTION
	IN CABLE OR CONDUIT.	₿	GFCI DUPLEX RECEPTACLE OUTLET, WALL-MOUNTED, ABOVE COUNTER.	СКТ	CIRCUIT	GR	GRADE
	WIRES AND CABLES	WP <b>H</b>	GFCI DUPLEX RECEPTACLE OUTLET WITH WEATHERPROOF FACEPLATE, WALL-	CLG	CEILING	HOA	HAND-OFF-AUTOMATIC
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	RACEWAY TURNED UP.	V AL		COL	COLUMN	IG	ISOLATED GROUND
•	RACEWAY TURNED DOWN.		SPECIALTY EQUIPMENT CONNECTION, WALL-MOUNTED. LETTER INDICATES TYPE. SEE SPECIALTY EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL INFORMATION.	CONN	CONNECT/CONNECTION	IMC	INTERMEDIATE METAL CONDUIT
— UP	UNDERGROUND PRIMARY (EXISTING DASHED).	X 🔕	SPECIALTY EQUIPMENT CONNECTION, CEILING-MOUNTED. LETTER INDICATES TYPE. SEE SPECIALTY EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL INFORMATION.	CONT	CONTINUATION/CONTINUOUS	INCAND	INCANDESCENT
	PANELBOARDS	•	DUPLEX RECEPTACLE, CEILING-MOUNTED.	CTE	CONNECT TO EXISTING	JB	JUNCTION BOX
	PANELBOARD, SURFACE-MOUNTED.	Ð	DUPLEX RECEPTACLE, FLUSH FLOOR-MOUNTED WITH COVERPLATE.	DN	DOWN	К	CAP EXISTING OUTLET
	PANELBOARD, FLUSH-MOUNTED.	FH	JUNCTION BOX CONNECTION TO PRE-WIRED FURNITURE SYSTEM FURNITURE,	EC	EMPTY CONDUIT	kcmil	THOUSAND CIRCULAR MILLS
	MOTOR		FURNITURE SELECTION.	ELEV	ELEVATOR	MC	METAL-CLAD CABLE
\$	MOTOR.	D _X	WALL DIMMER SWITCH MOUNT 48" AFF, UNLESS OTHERWISE NOTED. LOWER CASE LETTERING INDICATES CONTROL OF THE LUMINAIRE OF CORRESPONDING LOWER CASE LETTERING.	EMT	ELECTRICAL METALLIC TUBING	MCC	MOTOR CONTROL CENTER
	LOW VOLTAGE DEVICES	S	WALL SWITCH, SINGLE-POLE, SINGLE-THROW. MOUNT 48" AFF, UON.	ENT	ELECTRICAL NONMETALLIC TUBING	NC	NORMALLY CLOSED
	SECURITY CAMERA.	S3	WALL SWITCH, 3-WAY, SINGLE-POLE, DOUBLE-THROW. MOUNT 48" AFF, UON.	EX	EXISTING	NF	NONFUSIBLE
(S)	SPEAKER, PROVIDE SINGLE-GANG JUNCTION BOX.	s ₄	WALL SWITCH, 4-WAY, DOUBLE-POLE, DOUBLE-THROW. MOUNT 48" AFF, UON.	EXP	EXPOSED	NO	NORMALLY OPEN
(P)	INPUT PLATE, PROVIDE 2-GANG JUNCTION BOX.	s _{os}	WALL SWITCH, OCCUPANCY SENSOR, LOAD RATING AS INDICATED, 500 W UNLESS	GRC	RIGID METAL CONDUIT	OC	ON CENTER
\bigcirc	WIRELESS ACCESS POINT, PROVIDE SINGLE-GANG JUNCTION BOX.	SWP	WALL SWITCH, WEATHERPROOF, SINGLE-POLE, SINGLE-THROW. MOUNT 48" AFF,				
	LUMINAIRES	S_	WALL-MOUNTED TIMER SWITCH MOUNT 48" AFE LINEESS OTHERWISE NOTED				
F	LUMINAIRE. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.	۶Ţ		FOWER 4	48" INDICATES MOUNTING HEIGHT OTHER T	THAN STANDARD	
O A	LUMINAIRE. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.	Ю	LIGHTING CONTROL STATION. REFER TO LIGHTING DESIGNER DRAWINGS FOR ADDITIONAL INFORMATION.	₩ UP-1A	A:9		
юA	WALL-MOUNTED LUMINAIRE. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.	\bigcirc		LIGHTING	INDICATES SWITCHING		
	EXIT LIGHT, CEILING-MOUNTED. DARKENED SECTIONS INDICATE FACES; ARROWS AS INDICATED. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.	(OS)	CEILING-MOUNTED OCCUPANCY SENSOR, PASSIVE INFRARED AND ULTRASONIC, DUAL- TECHNOLOGY SENSOR. LOAD RATING AS INDICATED, 500 W UNLESS OTHERWISE NOTED. MANUFACTURER SHALL PERFORM SYSTEM LAYOUT AND DETERMINE NUMBER OF SENSORS REQUIRED IN EACH SPACE. SYMBOL ON DRAWINGS INDICATES ONLY THAT THE ROOM HAS OCCUPANCY SENSOR CONTROL AND IS NOT TO BE USED FOR DEVICE OUTANTITY, DENDANT MOUNT DEVICE IN SPACES WITHOUT CELLING.	a,b	INDICATES CIRCOT NOMBER		
$ \begin{array}{c} + \bigotimes \\ X \\ X \\ \end{array} $	EXIT LIGHT, WALL-MOUNTED. DARKENED SECTIONS INDICATE FACES; ARROWS AS INDICATED. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.				L1B - 1:2	<u>L1B - 1:2</u>	
F	LUMINAIRE WITH PROVISIONS FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.	DP	DAYLIGHT SENSOR, CEILING-MOUNTED, FOR CONTROL OF PRIMARY DAYLIGHT ZONE. MANUFACTURER SHALL PERFORM SYSTEM LAYOUT AND DETERMINE LOCATION AND NUMBER OF SENSORS REQUIRED IN EACH SPACE. SYMBOL ON DRAWINGS INDICATES ONLY THAT THE ROOM HAS DAYLIGHT SENSOR CONTROL AND IS NOT TO BE USED FOR	DENOTES F SHALL BE S CONNECTION	PANELBOARD FROM WHICH ALL CIRCUITS WITHIN SERVED, OR DENOTES SPECIFIC CIRCUIT FROM W ONS SHALL BE MADE, UON. SEE PANELBOARD SCI	I DESIGNATED AREA WHICH ALL HEDULES FOR	
⊢⊖⊣F	2', 3', 4', 6' OR 8' STRIP. LENGTH TO SCALE. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.	DS	DEVICE QUANTITY TAKE OFF.	CIRCUITING	G REQUIREMENTS. THE MAXIMUM NUMBER OR BR ORS INSTALLED IN SINGLE CONDUIT SHALL NOT EX	RANCH CIRCUIT PHASI XCEED THREE (3), UO	E N.
⊢ ⊜ − F	2', 3', 4', 6' OR 8' STRIP WITH PROVISIONS FOR EMERGENCY LIGHTING. LENGTH TO SCALE. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.		ZONE. MANUFACTURER SHALL PERFORM SYSTEM LAYOUT AND DETERMINE LOCATION AND NUMBER OF SENSORS REQUIRED IN EACH SPACE. SYMBOL ON DRAWINGS INDICATES ONLY THAT THE ROOM HAS DAYLIGHT SENSOR CONTROL AND IS NOT TO BE				
● A	LUMINAIRE WITH PROVISIONS FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.		NOTES FOR RECEPTACLES:				
⊢● A	WALL-MOUNTED LUMINAIRE WITH PROVISIONS FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.		"*" ADJACENT TO RECEPTACLE INDICATES RECEPTACLE MOUNTED IN CASEWORK OR FURNITURE. CIRCUIT FOR RECEPTACLE SHALL BE CONCEALED IN CASEWORK AND/OR THROUGH FLOOR STUB-UP.				
A	WALL-MOUNTED LUMINAIRE WITH PROVISIONS FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.		"S" ADJACENT TO RECEPTACLE INDICATES CONTROLLED RECEPTACLE. PROVIDE ADDITIONAL POWER PACK TO CONTROL RECEPTACLES, VIA OCCUPANCY SENSOR,				
└─ ─ ─A	WALL-MOUNTED LUMINAIRE. LENGTH TO SCALE. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.		CONTROLLING LUMINAIRES WITHIN THE ROOM OR SPACE.				

└── 30/3/20/3R

DISCONNECTS

DISCONNECT SWITCH, SIZE/POLES/FUSE/ENCLOSURE TYPE IF OTHER THAN NEMA 1. MOUNT 48" AFF, UNLESS OTHERWISE NOTED.

INDIVIDUAL CIRCUIT BREAKERS

INDIVIDUAL CIRCUIT BREAKER, TRIP/POLES. MOUNT 48" AFF, UNLESS OTHERWISE NOTED.





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- 1. PERFORM DEMOLITION AT SUCH TIME AND IN SUCH MANNER AS TO CASE MINIMUM INCOVENIENCE TO
- OWNER AND AS APPROVED BY ARCHITECT. 2. WHERE THE DEMOLITION WILL INTERRUPT SERVICES OUTSIDE THE RENOVATED AREA, OBTAIN
- APPROVAL FROM OWNER AT LEAST 14 DAYS PRIOR TO INTERRUPTION. 3. MATERIALS, EQUIPMENT AND APPARATUS REMOVED SHALL BE TURNED OVER TO OWNER AND STORED AS DIRECTED BY OWNER. MATERIALS, EQUIPMENT AND APPARATUS NOT ACCEPTED BY OWNER SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVE FROM THE SITE.
- 4. ANY OPENING LEFT IN SLAB BY REMOVAL OF MATERIALS, EQUIPMENT OR APPARATUS SHALL BE FILLED FLUSH WITH GROUT ON BOTH SIDES. 5. OPENINGS THROUGH FIRE RATED FLOORS AND PARTITIONS SHALL BE SEALED WITH FIRE RATED
- SEALANT IN A MANNER TO MAINTAIN THE FIRE RATING OF THE SEPARATION.
- 6. ALL CLEANUP SHALL BE DONE BY VACUUMING WITH HEPA-FILTERED DAN DEVICE.

- DEMOLITION SHALL BE REMOVED.
- OUTSIDE THE AREA OF WORK.
- 7. CONTRACTOR SHALL COMPLY WITH OWNERS INFECTION CONTROL REQUIREMENTS. 8. MAINTAIN AND RESTORE IF INTERRUPTED, ALL SYSTEMSPASSING THROUGH OR SERVING OUTSIDE AREA OF WORK.









9. ALL EXISTING LOW VOLTAGE SYSTEMS SHALL REMAIN IN PLACE AND WILL BE EVALUATED FOR DEMOLITION AT THE COMPLETION OF DEMOLITION. ADDITIONAL SUPPORT SHALL BE PROVIDED FOR CABLING CURRENTLY SUPPORTED BY CEILING OR SYSTEMS BEING REMOVED.

10. WHERE OUTLETS AND BRANCH CIRCUITS ARE EXPOSED BY THE REMOVAL OF WALLS, REMOVE OUTLETS AND ASSOCIATED RACEWAYS AND WIRING BACK TO SERVING PANELBOARD. 11. WHERE EXISTING MECHANICAL EQUIPMENT IS REMOVED, ELECTRICAL WIRING, RACEWAYS, SWITCHES

AND STARTERS ASSOCIATED WITH THE EQUIPMENT SHALL BE REMOVED. 12. EQUIPMENT, APPARATUS, AND EXPOSED WIRING AND RACEWAYS RENDERED USELESS DUE TO

13. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL WIRING OR RACEWAYS PASSING THROUGH OR SERVING

14. CONCEALED RACEWAYS IN SLAB SHALL BE CUT FLUSH WITH SLAB AND SEALED WITH GROUT.

KEYED NOTES: (#) (APPLIES TO POWER DEMOLITION PLAN ON THIS SHEET ONLY) 1. EXISTING PANEL TO BE DEMOLISHED.

- **KEYED NOTES:** (#) (APPLIES TO NEW POWER PLAN ON THIS SHEET ONLY) 1. PROVIDE FINAL CONNECTION TO DOOR OPERATOR. COORDINATE FINAL CONNECTIONS WITH EQUIPMENT MANUFACTURER.
- 2. PROVIDE FINAL CONNECTION TO BCS PANEL. COORDINATE FINAL CONNECTIONS WITH EQUIPMENT MANUFACTURER.
- 3. PROVIDE FINAL CONNECTION TO AHU RECEPTACLE, LIGHT(S), AND SWITCH. COORDINATE FINAL CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
- 4. PROVIDE FINAL CONNECTION TO AHU UV LIGHT(S). COORDINATE EXACT CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
- 5. CONNECT NEW EXHAUST FAN TO THE WALL-MOUNTED SWITCH CONTROLLING THE LIGHTS IN THIS RESTROOM.





VOLTS:	120/208 Wye
PHASES:	3
WIRE:	4

VOLTS: 120/2	208 Wye					BUS:	100 A						MOUNTING: SURFACE
NOTES: 1. PROVIDE A GFCI CIRCUIT BREAKER.						SCCR:	10,000	РМСВ					LOCATION: ROOM 16D002
LOAD DESCRIPTION	CI TRI POL	B P / .ES	скт #		A		B	(0	скт #	TF PC	CB RIP / DLES	LOAD DESCRIPTION
REC - LOUNGE 16	20 A	1	1	0.9	0.7					2	1	20 A	REC - BREAKOUT 5
REC - LOUNGE 16	20 A	1	3			0.9	0.4			4	1	20 A	REC - LOCKERS 14
REC - STORAGE 17	20 A	1	5					0.7	0.2	6	1	20 A	REC - COOLER LOCKERS 14
REC - BREAKOUT 1	20 A	1	7	1.4	0.5					8	1	20 A	REC - OFFICE 6
REC - BREAKOUT 2	20 A	1	9			1.4	0.4			10	1	20 A	REC - CORRIDOR
REC - BREAK 9	20 A	1	11					0.5	1.1	12	1	20 A	REC - BREAKOUT 3
MICROWAVE - BREAK 9	20 A	1	13	1.2	0.2					14	1	20 A	REC - BREAK 9
MICROWAVE - BREAK 9	20 A	1	15			1.2	0.5			16	1	20 A	(NOTE 1) VENDING MACHINE - BREAK 9
REFRIGERATOR - BREAK 9	20 A	1	17					1.0	0.5	18	1	20 A	(NOTE 1) VENDING MACHINE - BREAK 9
REFRIGERATOR - BREAK 9	20 A	1	19	1.0	0.7					20	1	20 A	PLUMBING POWER WOMEN RR 13
ICE MAKER - BREAK 9	20 A	1	21			1.2	0.9			22	1	20 A	PLUMBING POWER MEN RR 12
SPARE	20 A	1	23					0.0	0.0	24	1	20 A	SPARE
SPARE	20 A	1	25	0.0	0.0					26	1	20 A	SPARE
SPARE	20 A	1	27			0.0	0.0			28	1	20 A	SPARE
SPARE	20 A	1	29					0.0	0.0	30	1	20 A	SPARE
SPARE	20 A	1	31	0.0	0.0			0.0	0.0	32	1	20 A	SPARE
SPARE	20 A	1	33			0.0	0.0			34	1	20 A	SPARE
SPARE	20 A	1	35					0.0	0.0	36	1	20 A	SPARE
PANEL 16LAB	100 A	3	37	6.5	0.0					38			SPACE
			39			5.6	0.0			40			SPACE
			41					5.7	0.0	42			SPACE
PH	ASE TOT	ALS (kVA):	1:	3.2	12	2.5	9	.8			1	
LOAD CLASSIFICATION	CO	NNE	CTED	LOAD	DEM	AND FA	CTOR	ESTI	MATED	LOAD			
Lighting		4	541 VA			100.00%	6		4541 V/	4			CONNECTED LOAD: 35501 VA
Motor		2	00 VA			100.00%	6		200 VA				CALCULATED LOAD: 26821 VA
Power		34	400 VA			100.00%	6		3400 V/	4			
Receptacle		27	360 VA	۸		68.27%)	1	18680 V	A			CONNECTED AMPERES: 99 A

ER. NEW L -BUILTS CB TRIP POLE	LOA S AN	D ONI ND IS	LY. For Re	EFEREN	BUS: MAIN: SCCR:	150 A 150A/3 10,000 _Y.	P MCB					MOUNTING: SURFACE SECTIONS: 1 LOCATION:
	5											
	ES	СКТ #		A		В		C	СКТ #	(TF PC	CB RIP / DLES	LOAD DESCRIPTION
60 A	3	1	0.0	0.0					2	3	50 A	EX AC-88 SF RM 16B002
		3			0.0	0.0			4			
		5					0.0	0.0	6			-
20 A	3	7	0.0	0.0					8	3	30 A	EX AC-88 RF RM 16B002
		9			0.0	0.0			10			
		11					0.0	0.0	12			
30 A	3	13	4.4	0.0					14			SPACE
		15			4.4	0.0			16			SPACE
		17					4.4	0.0	18			SPACE
TOTAL	LS (I	kVA):	4	.4	4	.4	4	.4				
CON	NNEC	CTED	LOAD	DEM	AND FA	CTOR	ESTI	MATED	LOAD			
	133	302 VA	4		100.00%	6		13302 V	A			CONNECTED LOAD: 13302 VA
												CALCULATED LOAD: 13302 VA
												CONNECTED AMPERES: 16 A CALCULATED AMPERES: 16 A
	POLI i0 A 20 A 30 A 30 A TOTA CON	POLES i0 A 3 20 A 3 i0 A 3 i0 A 3 i0 A 3 i0 A 3 io A 3	POLES # i0 A 3 1 3 5 20 A 3 7 9 11 30 A 3 13 15 17 TOTALS (kVA): X 13302 V/ 13302 V/	POLES # i0 A 3 1 0.0 3 5 20 A 3 7 0.0 9 9 11 30 A 3 13 4.4 15 17 TOTALS (kVA): 4 CONNECTED LOAD 13302 VA	POLES # i0 A 3 1 0.0 0.0 3 5 20 A 3 7 0.0 0.0 5 20 A 3 7 0.0 0.0 9 11 30 A 3 13 4.4 0.0 15 17 TOTALS (kVA): 4.4 17 17 13302 VA 17 <	POLES #	POLES # $\overline{00 A 3}$ 1 0.0 0.0 $\overline{0.0}$ 3 0.0 0.0 0.0 5 $\overline{00 A 3}$ 7 0.0 0.0 5 $\overline{00 A 3}$ 7 0.0 0.0 $\overline{0.0}$ 9 $\overline{0.0 0.0}$ $\overline{0.0}$ $\overline{0.0}$ $\overline{0.0}$ 11 $\overline{0.0 0.0}$ $\overline{0.0}$ $\overline{0.0}$ 11 $\overline{0.0 0.0}$ $\overline{0.0}$ $\overline{0.0}$ 15 4.4 0.0 $\overline{0.0}$ 17 4.4 4.4 CONNECTED LOAD DEMAND FACTOR $\overline{13302 VA}$ 100.00% - - - - - - - - - - - - - - - - - - - - -	POLES # $$ $$ $$ $$ $$ $$ $$ $$ 0.0 0.0 0.0 $$ $$ $$ $$ 0.0	POLES # $0A$ 3 1 0.0 0.0 0.0 3 0.0 0.0 0.0 5 0.0 0.0 0.0 5 0.0 0.0 0.0 9 0.0 0.0 11 0.0 0.0 11 0.0 0.0 11 0.0 0.0 15 4.4 0.0 17 4.4 4.4 17 4.4 4.4 13302 VA 100.00% 13302 V	POLES # $#$ $$	POLES # $$ $+$ PC i0 A 3 1 0.0 0.0 0.0 2 3 3 0.0 0.0 0.0 4 5 0.0 0.0 0.0 6 20 A 3 7 0.0 0.0 0.0 8 3 9 0.0 0.0 10 20 A 3 13 4.4 0.0 10 11 0.0 0.0 0.0 12 30 A 3 13 4.4 0.0 14 17 4.4 0.0 18 TOTALS (kVA): 4.4 4.4 4.4 4.4 17	POLES # POLES # POLES $10A$ 3 1 0.0 0.0 2 3 50 A $$ $$ 3 0.0 0.0 0.0 4 $$ $$ $$ $$ 5 0.0 0.0 0.0 4 $$ $$ $$ $$ 5 0.0 0.0 0.0 6 $$ $$ $20A$ 3 7 0.0 0.0 0.0 0.0 6 $$ $$ $20A$ 3 7 0.0 0.0 0.0 10 $$ $$ $$ $$ 9 0.0 0.0 0.0 12 $$ $$ 3 13 4.4 0.0 14 $$ $$ $$ $$ $$ 17 4.4 0.0 18 $$ $$ $$ $$ 13302 VA 100.00% 13302 VA $$ $$

Mechanical Equipment Connection Schedule														
			Mecha	anical Equipm	ent Connect	ion Schedule	9							
EQUIPMENT DESIGNATION	DESCRIPTION	HORSEPOWER	LOAD	VOLTAGE	PHASE	PANEL	CIRCUIT NUMBER	WIRE & CONDUIT	DISCONNECT					
AC-86	AIR HANDLING UNIT	2(6.5)	13302 VA	480 V	3	16NHA	13,15,17	3 #10 AND 1 #10 G ~ 0.75"C	30A/3/NF					
EF-1	FAN		200 VA	120 V	1	16LAB	22	2 #12 AND 1 #12 G ~ 0.75"C	TOOGLE SWITCH					
TU86-16-1	TERMINAL UNIT		2000 VA	480 V	3			3 #12 AND 1 #12 G ~ 0.75"C	30A/3/NF					
TU86-16-2	TERMINAL UNIT		5000 VA	480 V	3			3 #12 AND 1 #12 G ~ 0.75"C	30A/3/NF					
TU86-16-3	TERMINAL UNIT		6000 VA	480 V	3			3 #12 AND 1 #12 G ~ 0.75"C	30A/3/NF					
TU86-16-4	TERMINAL UNIT		5000 VA	480 V	3			3 #12 AND 1 #12 G ~ 0.75"C	30A/3/NF					
TU86-16-5	TERMINAL UNIT		8000 VA	480 V	3			3 #12 AND 1 #12 G ~ 0.75"C	30A/3/NF					
TU86-16-6	TERMINAL UNIT		7000 VA	480 V	3			3 #12 AND 1 #12 G ~ 0.75"C	30A/3/NF					
TU86-16-7	TERMINAL UNIT		2000 VA	480 V	3			3 #12 AND 1 #12 G ~ 0.75"C	30A/3/NF					
TU86-16-8	TERMINAL UNIT		9000 VA	480 V	3			3 #12 AND 1 #12 G ~ 0.75"C	30A/3/NF					
TU86-16-9	TERMINAL UNIT		6000 VA	480 V	3			3 #12 AND 1 #12 G ~ 0.75"C	30A/3/NF					
TU86-16-10	TERMINAL UNIT		3000 VA	480 V	3			3 #12 AND 1 #12 G ~ 0.75"C	30A/3/NF					
TU86-16-11	TERMINAL UNIT		11000 VA	480 V	3			3 #12 AND 1 #12 G ~ 0.75"C	30A/3/NF					

	NEV	VF	PAN	IELE	BOA	RD	"16	LAB	" S(CHI	ED	ULE	E
VOLTS: 120/20 PHASES: 3 WIRE: 4	8 Wye					BUS: MAIN:	100 A MLO 10 000						MOUNTING: SURFACE SECTIONS: 1
OTES:						SUCK.	10,000						LOCATION: ROOM 10D002
LOAD DESCRIPTION	CI TRI POL	CB TRIP / CKT POLES #		4	АВ		С		скт	CB (T TRIP / POLES		LOAD DESCRIPTION	
URNITURE FEED COMPUTER STATIONS 10	20 A	1	1	0.5	0.5					2	1	20 A	FURNITURE FEED COMPUTER STATIONS 7
URNITURE FEED COMPUTER STATIONS 10	20 A	1	3			0.5	0.5			4	1	20 A	FURNITURE FEED COMPUTER STATIONS 7
URNITURE FEED COMPUTER STATIONS 10	20 A	1	5					0.5	0.5	6	1	20 A	FURNITURE FEED COMPUTER STATIONS 7
URNITURE FEED COMPUTER STATIONS 10	20 A	1	7	0.5	0.5					8	1	20 A	FURNITURE FEED COMPUTER STATIONS 7
URNITURE FEED COMPUTER STATIONS 10	20 A	1	9			0.5	0.5			10	1	20 A	FURNITURE FEED COMPUTER STATIONS 7
URNITURE FEED COMPUTER STATIONS 10	20 A	1	11					0.5	0.5	12	1	20 A	FURNITURE FEED COMPUTER STATIONS 7
URNITURE FEED COMPUTER STATIONS 10	20 A	1	13	0.5	0.5					14	1	20 A	FURNITURE FEED COMPUTER STATIONS 7
URNITURE FEED COMPUTER STATIONS 10	20 A	1	15			0.5	0.5			16	1	20 A	FURNITURE FEED COMPUTER STATIONS 7
URNITURE FEED COMPUTER STATIONS 10	20 A	1	17					0.5	0.5	18	1	20 A	FURNITURE FEED COMPUTER STATIONS 7
URNITURE FEED COMPUTER STATIONS 10	20 A	1	19	0.5	0.5					20	1	20 A	POWER BCS PANEL ROOM 16E003
URNITURE FEED COMPUTER STATIONS 10	20 A	1	21			0.5	0.2			22	1	20 A	EF-1 UNISEX RR 11
URNITURE FEED COMPUTER STATIONS 10	20 A	1	23					0.5	0.5	24	1	20 A	POWER AC-86 GFCI & SWITCH ROOM16E003
TG - COMP STATIONS 10, BREAKOUT 5	20 A	1	25	0.9	0.5					26	1	20 A	DOOR OPERATOR COMPUTER STATION 7
TG - BREAKOUT 1 & 2	20 A	1	27			0.8	0.5			28	1	20 A	DOOR OPERATOR BREAK 9
TG - COMP STATIONS 7, BREAKOUT 3, RR 13	20 A	1	29					1.1	0.5	30	1	20 A	POWER AC-86 UV LIGHT ROOM16E003
TG - LOCKER14, OFFICE , & ELEV LOBBY 15	20 A	1	31	1.1	0.0					32	1	20 A	SPARE
TG - RR 11,12, BREAK 9, & LOUNGE 16	20 A	1	33			0.7	0.0			34	1	20 A	SPARE
EC - ROOM 16E003	20 A	1	35					0.2	0.0	36	1	20 A	SPARE
PACE			37	0.0	0.0					38			SPACE
PACE			39			0.0	0.0			40			SPACE
PACE			41					0.0	0.0	42			SPACE
PHAS	SE TOT	ALS (kVA):	6	.5	5	.6	5	.7				
OAD CLASSIFICATION	CO	NNE	CTED	LOAD	DEM	and fa	CTOR	ESTIN	IATED	LOAD			
ighting		4	541 VA	L .		100.00%	0		4541 VA	٩			CONNECTED LOAD: 17921 VA
lotor		2	00 VA			100.00%	ó		200 VA				CALCULATED LOAD: 17581 VA
ower		25	500 VA			100.00%	/ 0		2500 VA	4			
eceptacle		10	680 VA	4		96.82%		1	0340 V	A			CONNECTED AMPERES: 50 A
													CALCULATED AMPERES: 49 A

EXIS	STIN	١G	PA	NE	LBC	DAR	D "1	6EL	.BA'	" S	СН	IED	ULE			
VOLTS: 120/208	Wye					BUS:	60 A						MOUNTING: SURFACE			
PHASES: 3	-					MAIN:	50A/3P	MCB					SECTIONS: 1			
WIRE : 4		SCCR: 10,000									LOCATION: ROOM16E003					
NOTES:																
NEW CIRCUIT, REUSE EXISTING CIRCUIT BREAKER. CONNECTED AND CALCULATED LOAD INDICATE NEW LOAD ONLY. EXISTING CIRCUITS SHOWN IS TAKEN FROM AS-BUILTS AND IS FOR REFERENCE ONLY.																
LOAD DESCRIPTION	CE TRII POL	3 P / ES	СКТ #	ļ	A	в		С		СКТ #	CB TRIP / POLES					
EX REC	20 A	1	1	0.0	0.0					2	1	20 A	EX SMOKE DAMPER			
EX REC	20 A	1	3			0.0	0.0			4	1	20 A	EX EMERG16E, ELEV LOBBY,			
LTG - EMERG GMH RESIDENT'S SUITE (NOTE 1)	20 A	1	5					1.3	0.0	6			SPACE			
SPACE			7	0.0	0.0					8			SPACE			
SPACE			9			0.0	0.0			10			SPACE			
SPACE			11					0.0	0.0	12			SPACE			
SPACE			13	0.0	0.0					14			SPACE			
SPACE			15			0.0	0.0			16			SPACE			
SPACE			17					0.0	0.0	18			SPACE			
SPACE			19	0.0	0.0					20			SPACE			
SPACE			21			0.0	0.0			22			SPACE			
SPACE			23					0.0	0.0	24			SPACE			
SPACE			25	0.0	0.0					26			SPACE			
SPACE			27			0.0	0.0			28			SPACE			
SPACE			29					0.0	0.0	30			SPACE			
PHASE	ΤΟΤΑ	ALS (I	(VA):	0	.0	0.	0	1.	.3				1			
LOAD CLASSIFICATION	CO	NNE	TED	LOAD	DEM	AND FA	CTOR	ESTIN								
	CONNECTED LOAD DEMAND FACTOR 1339 VA 100.00%						1339 VA									

NELBOAR	D "16ELBA" SC	HEDULE	
BUS:	60 A	MOUNTING:	SURFACE
MAIN:	50A/3P MCB	SECTIONS:	1
SCCR:	10,000	LOCATION:	ROOM16E003

TED LOAD	DEMAND FACTOR	ESTIMATED LOAD
9 VA	100.00%	1339 VA

CONNECTED LOAD: 1339 VA CALCULATED LOAD: 1339 VA

CONNECTED AMPERES: 4 A CALCULATED AMPERES: 4 A

	DATE
	DESCRIPTION
	o Z O O O
	GRADY HOSPITAL 16TH FLOOR RESIDENT RESOURCE ROOM 80 JESSE HILL JR. DR., ATLANTA, GA
	Size Doregroup 1700 COMMERCE DRIVE, NW ATLANTA, GEORGIA 30318 T: 404 605 6090 F: 404 605 6090 Www.sizemoregroup.com
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	ELECTRICAL SCHEDULES
	PROJECT # 18N272 DATE 9/13/2021 DRAWN BY MXC CHECKED BY HDC
	E500
т	SCALE

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			L	UMINAIR	E SCHEDU	LE
TYPE	MANUFACTURER	CATALOG SERIES	LAMP TYPE	VOLTAGE/ DESIGN WATTAGE	MOUNTING METHOD	DESCRIPTION
K1	NEO-RAY OR APPROVED EQUAL	K1	LED, CCT 3000K MINIMUM CRI 80 NOMINAL OUTPUT: 1020 LUMENS/FT	UNIVERSAL (120/277) / 8.1W/FT	RECESSED, CEILING	4' LINEAR REGRESSED DIRECT RECESSED LED FIXTURE WITH MATTE WHITE FINISH. PROVIDE WITH STANDARD 0-10V DIMMING DRIVER DOWN TO 1%.
K1E	SAME AS TYPE 'K1', E	XCEPT WITH PROVIS	SIONS FOR EMERGENCY L	IGHTING.		
K2	NEO-RAY OR APPROVED EQUAL	K2	LED, CCT 3000K MINIMUM CRI 80 NOMINAL OUTPUT: 795 LUMENS/FT	UNIVERSAL (120/277) / 6.1W/FT	RECESSED, CEILING	4' LINEAR REGRESSED DIRECT RECESSED LED FIXTURE WITH MATTE WHITE FINISH. PROVIDE WITH STANDARD 0-10V DIMMING DRIVER DOWN TO 1%.
L1	XAL LIGHTING OR APPROVED EQUAL	LENO 4.0	LED, CCT 3000K MINIMUM CRI 80 NOMINAL OUTPUT: 695 LUMENS/FT	UNIVERSAL (120/277) / 22	RECESSED, CEILING	4' LINEAR FLAT PROFILE RECESSED LED FIXTURE WITH OPAL COVER LENS. PROVIDE WITH STANDARD 0-10V DIMMING DRIVER DOWN TO 1%.
L1E	SAME AS TYPE 'L1', EX	CEPT WITH PROVIS	SIONS FOR EMERGENCY L	IGHTING.		
L2	XAL LIGHTING OR APPROVED EQUAL	LENO 4.0	LED, CCT 3000K MINIMUM CRI 80 NOMINAL OUTPUT: 475 LUMENS/FT	UNIVERSAL (120/277) / 15	RECESSED, CEILING	4' LINEAR FLAT PROFILE RECESSED LED FIXTURE WITH OPAL COVER LENS. PROVIDE WITH STANDARD 0-10V DIMMING DRIVER DOWN TO 1%.
L2E	SAME AS TYPE 'L2', EX	CEPT WITH PROVIS	SIONS FOR EMERGENCY L	IGHTING.		
L3	SAME AS TYPE 'L1', EX	(CEPT WITH A 2' LEI	NGTH.			
N1	HALO OR APPROVED EQUAL	PD6	LED, CCT 3000K MINIMUM CRI 80 NOMINAL OUTPUT: 1000 LUMENS	UNIVERSAL (120/277)/ 11	RECESSED, CEILING	RECESSED LED DOWNLIGHT WITH NOMINAL 6" DIAMETER APERATURE, SEMI-SPECULAR CLEAR FINISH, AND 6" VERTICAL PARABOLIC REFLECTOR. PROVIDE STANDARD 0-10V DIMMING DRIVER.
N2	HALO OR APPROVED EQUAL	CYL	(1)-A19 LED BULB MINIMUM CRI 90 NOMINAL OUTPUT: 400 LUMENS	120V/ 8	PENDANT, CEILING	6" CYLINDER PENDANT ACCENT LIGHT. FINISH AND SHADE COLOR PER ARCHITECT.
P1	SHAPER OR APPROVED EQUAL	161-W	LED, CCT XX00K MINIMUM CRI 80 NOMINAL OUTPUT: 1900 LUMENS	UNIVERSAL (120/277) / 22	SURFACE, WALL	25" SQUARE RECTILINEAR DECORATIVE LED WALL SCONCE. FINISH PER ARCHITECT.
X	LITHONIA SURE LITES OR APPROVED EQUAL	LV UX	LED	UNIVERSAL (120/277) / 5W PER FACE	RECESSED SURFACE, WALL OR CEILING PER DRAWINGS	DIE CAST ALUMINUM EXIT SIGN WITH SINGLE - OR DOUBLE - FACE AS INDICATED ON DRAWINGS, RED LETTERS, AND DIRECTIONAL INDICATORS AS SHOWN ON DRAWINGS. LUMINAIRE SHALL COMPLY WITH NFPA 101-2018 SECTION 7.10. VISIBLE LED LIGHTS ARE NOT ACCEPTABLE.

COMcheck Software Version 4.1.1.0 Interior Lighting Compliance Certificate

Owner/Agent:

Project Information Energy Code: Project Title: Project Type:

2015 IECC GRADY HOSPITAL 16TH FLOOR RESIDENT'S RESOURCE CENTER Addition

Designer/Contractor:

MAMADOU CISSE

303 PEACHTREE CENTER AVE, NE

Construction Site: 80 JESSE HILL JR. DR., ATLANTA, GA 30303

	ATLANTA	, GA 30303		
Allowed Interior Lighting Power				
A Area Category	B Floor Area (ft2)	C Allowed Watts / ft	Allo 2	D wed Watts (B X C)
1-BREAKOUT 1 (Healthcare Facility:Lounge/Breakroom)	236	0.92		217
2-BREAKOUT 2 (Healthcare Facility:Lounge/Breakroom)	225	0.92		207
3-COMPUTER STATION 10 (Common Space Types:Computer Room)	643	1.71		1100
4-BREAKOUT 5 (Healthcare Facility:Lounge/Breakroom)	115	0.92		106
5-UNISEX RR 11 (Common Space Types:Restrooms)	99	0.98		97
6-BREAKROOM 9 (Healthcare Facility:Lounge/Breakroom)	311	0.92		286
7-LOUNGE 16 (Healthcare Facility:Lounge/Breakroom)	354	0.92		326
8-MEN'S RR 12 (Common Space Types:Restrooms)	134	0.98		131
9-LOCKERS 14 (Common Space Types:Locker Room)	755	0.75		566
10-ELEVATOR LOBBY 15 (Common Space Types:Lobby For Elevator)	410	0.64		262
11-WOMEN'S RR 13 (Common Space Types:Restrooms)	158	0.98		155
12-COMPUTER STATION 7 (Healthcare Facility:Lounge/Breakroom)	456	0.92		420
13-BREAKOUT 3 (Healthcare Facility:Lounge/Breakroom)	216	0.92		199
14-OFFICE 6 (Common Space Types:Office - Enclosed)	169	1.11		188
15-CORRIDOR (Common Space Types:Corridor/Transition <8 ft wide)	359	0.66		237
	То	tal Allowed W	/atts =	4496
Proposed Interior Lighting Power			- C. C.	
Α	В	С	D	E
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps/ Fixture	# of Fixtures	Fixture Watt.	(C X D)
1-BREAKOUT 1 (Healthcare Facility:Lounge/Breakroom) LED 2: K1: 4' LINEAR DIRECT FIXTURE: LED Other Fixture Unit 36W:	1	5	32	162
2-BREAKOUT 2 (Healthcare Facility:Lounge/Breakroom) LED 3: K1: 4' LINEAR DIRECT FIXTURE: LED Other Fixture Unit 13W:	1	5	32	162
3-COMPUTER STATION 10 (Common Space Types:Computer Room) LED 4: L2: 4' LINEAR FLAT FIXTURE: LED Other Fixture Unit 16W:	1	16	15	240
LED 5: L3: 2' LINEAR FLAT FIXTURE: LED Other Fixture Unit 6.5W:	1	1	8	8
THE REPORT OF A DESCRIPTION OF A				

4-BREAKOUT 5 (Healthcare Facility:Lounge/Breakroom)

Project Title: GRADY HOSPITAL 16TH FLOOR RESIDENT'S RESOURCE CENTER Report date: 09/03/21 Data filename: Q:\18N272.PRJ\2.0 Calculations and Design Data\2.04 Electrica\\ComCheck\COMCHECK.cck Page 2 of 7 Fixture ID : Desci

- 4-BREAKOUT 5 (Healthcare LED 6: K1: 4' LINEAR DIRECT 5-UNISEX RR 11 (Common S
- LED 7: N1: LED DOWNLIGHT LED 22: P1: LED Other Fixture I 6-BREAKROOM 9 (Healthcare
- LED 8: N1: LED DOWNLIGHT LED 9: N2: CYLINDER PENDA
- 7-LOUNGE 16 (Healthcare Fa
- LED 10: L1: LED Other Fixture 8-MEN'S RR 12 (Common S
- LED 10: N1: LED DOWNLIGHT LED 11: P1: LED RECTILINEA 9-LOCKERS 14 (Common Sp
- LED 12: L2: 4' LINEAR FLAT LED 13: N1: LED DOWNLIGHT
- 10-ELEVATOR LOBBY 15 (Co LED 14: K1: 4' LINEAR DIREC
- 11-WOMEN'S RR 13 (Commo LED 15: N1: LED DOWNLIGHT LED 16: P1: LED RECTILINE/
- 12-COMPUTER STATION 7 LED 17: L1: 4' LINEAR FLAT I 13-BREAKOUT 3 (Healthcare
- LED 18: L1: 4' LINEAR FLAT 14-OFFICE 6 (Common Space LED 19: K1: 4' LINEAR DIREC
- 15-CORRIDOR (Common Sp
- LED 20: L1: 4' LINEAR FLAT I LED 21: N1: LED DOWNLIGH
- Interior Lighting PASSES: Design 57% better than code Interior Lighting Compliance Statement
- requirements listed in the Inspection Checklist. Mamadou Cisse Name - Title

Project Title: GRADY HOSPITAL 16TH FLOOR RESIDENT'S RESOURCE CENTER Data filename: Q:\18N272.PRJ\2.0 Calculations and Design Data\2.04 Electrica\\ComCheck\COMCHECK.cck Page 3 of 7

A ription / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Facility:Lounge/Breakroom) FFIXTURE: LED Other Fixture Unit 13W:	1	2	32	65
Space Types:Restrooms) : LED Other Fixture Unit 13W: e Unit 25W:	;	1	11 22	11 22
<u>e Facility:Lounge/Breakroom)</u> : LED Other Fixture Unit 13W: ANT: LED Other Fixture Unit 6.5W:	1	6 3	11 8	66 24
acility:Lounge/Breakroom) 9 Unit 25W:	2	3	22	66
<u>pace Types:Restrooms)</u> T: LED Other Fixture Unit 13W: NR SCONE: LED Other Fixture Unit 25W:	1	5	11 22	55 44
ace Types:Locker Room) FIXTURE: LED Other Fixture Unit 16W: T: LED Other Fixture Unit 13W:	1	7 2	15 11	105
ommon Space Types:Lobby For Elevator) CT FIXTURE: LED Other Fixture Unit 13W:	t	4	32	130
on Space Types:Restrooms) T: LED Other Fixture Unit 13W: AR SCONE: LED Other Fixture Unit 25W:	1	5 2	11 22	55 44
Healthcare Facility:Lounge/Breakroom) TXTURE: LED Other Fixture Unit 25W:	1	8	22	176
Facility:Lounge/Breakroom) FIXTURE: LED Other Fixture Unit 25W:	r	6	22	132
e Types:Office - Enclosed) TFIXTURE: LED Other Fixture Unit 13W:	4	2	32	65
ace Types:Corridor/Transition <8 ft wide) FIXTURE: LED Other Fixture Unit 16W: T: LED Other Fixture Unit 13W:	1	7 1	15 1	105
		Total Propos	ed Watts =	1759

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory

Ilcissef Signature

09/03/2021 Date

Report date: 09/03/21



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FIRE ALARM LEGEND :

FIRE ALARM SPEAKER/STROBEWALL MOUNTED 6'-8"XFIRE ALARM STROBE LIGHT WALLMOUNTED 6'-8"

C FIRE ALARM SPEAKER/STROBE CEILING MOUNTED

 $\langle ? \rangle$ AREA SMOKE DETECTOR

F PULL STATION

FIRE ALARM NOTES:

- 1. FIRE ALARM SYSTEM DESIGN INTENT IS TO MODIFY EXISTING FIRE ALARM SYSTEM.
- 2. SYSTEM INSTALLATION SHALL COMPLY WITH NFPA 70 AND NFPA 72
- 3. THE FIRE ALARM WORK SHALL BE PERFORMED BY A FACTORY AUTHORIZED DISTRIBUTOR.
- 4. THE BUILDING ENGINEER SHALL BE ADVISED BEFORE EXISTING FIRE ALARM SYSTEM ARE TAKEN OUT OF SERVICE FOR TENANT IMPROVEMENTS. INTERRUPTION TO EXISTING FIRE ALARM SYSTEM SHALL BE MINIMIZED.
- 5. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID, PURCHASE, AND INSTALLATION OF WORK.
- 6. THE FIRE ALARM SYSTEM IS A PRODUCT OF EDWARD SYSTEM TECHNOLOGY. (EST) ALL NEW EQUIPMENTS AND DEVICES SHALL MATCH EXISTING.
- 7. EXTEND THE EXISTING NOTIFICATION APPLIANCE CIRCUITS INTO THE NEW WORK AREAS AND INSTALL NEW SPEAKERS AND STROBE LIGHTS, MAINTAIN SUPERVISION.
- 8. CONFIRM BY FIELD MEASUREMENT OR REFERENCE TO EXISTING FIRE ALARM SHOP DRAWINGS THAT SUFFICIENT CAPACITY IS AVAILABLE IN THE CIRCUIT TO POWER THE NEW DEVICES, OTHERWISE PROVIDE A NEW POWER SUPPLY.
- THE FIRE ALARM OPERATING SEQUENCE SHALL REMAIN UNCHANGED.
- 10. UPON COMPLETION OF THE WORK TEST THE FIRE ALARM SYSTEM, METHODS AND TESTING OF FIRE SYSTEM SHALL BE CONDUCTED IN ACCORDANCE WITH NFPA 72.

	DATE
	DESCRIPTION
	GRADY HOSPITAL Image: Mail of the second
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	FIRE ALARM LEGEND AND NOTES
	PROJECT # 18N272 DATE 9/13/2021 DRAWN BY KOE CHECKED BY HDC
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	CRADY HOSPITAL CRADY HOSPITAL CRADY HOSPITAL Tomana Tomana Exercision Bonne Bonne
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FIRE PROTECTION NOTES

- 1. SPRINKLER SYSTEM DESIGN INTENT IS TO MODIFY EXISTING SPRINKLER SYSTEM PER NFPA13-2016.
- 2. REMOVE ALL EXISTING FIRE PROTECTION HEADS, PIPING AND PROVIDE NEW PER NFPA 13-2016. EXISTING STANDPIPE AND VALVE TO REMAIN.
- 3. EXISTING SPRINKLER CONTROL VALVE, WATERFLOW AND FLOW SWITCH TO REMAIN.
- 4. THE BUILDING ENGINEER SHALL BE ADVISED BEFORE EXISTING SPRINKLER SYSTEMS ARE TAKEN OUT OF SERVICE FOR TENANT IMPROVEMENTS. INTERRUPTION TO EXISTING SPRINKLER SYSTEM SHALL BE MINIMIZED.
- 5. ELECTRICAL ROOMS, MECHANICAL ROOMS AND STORAGE ARE ORDINARY HAZARD OCCUPANCY MAXIMUM SPRINKLER SPACING IS 130 SF. ANY OTHER AREAS ARE LIGHT HAZARD. MAXIMUM SPARINKLER SPACING IS 225 SF.
- 6, SPRINKLER DENSITY FOR ORDINARY HAZARD OCCUPANCY IS 0.15/SF OVER 1500SF. SPRINKLER DENSITY FOR LIGHT HAZARD OCCUPANCY IS 0.1/SF OVER 1500 SF.
- CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDITIONS PRIOR TO BID, PURCHASE, AND INSTALLATION OF WORK.
- 8. NEW SPRINKLERS HEAD SHALL MATCH THE BASE BUILDING STANDARD AND TEMPERATURE RATING.
- SPRINKLER PIPING SHALL BE BLACK STEEL, ASTM A53/A53M-2012, OR ASTM A795/A795M-2013.
- FITTINGS SHALL BE STANDARD WEIGHT (175 PSIG) CAST IRON.
 REFER TO ARCHITECTURAL REFLECTED CEILING PLANS TO COORDINATE FINAL SPRINKLER HEAD LOCATIONS. RECESSED SPRINKLER HEADS SHALL BE LOCATED ON CENTER OF THE TILE IN AREAS WITH LAY-IN ACOUSTICAL CEILING TILES.
- SPRINKLER SYSTEM MODIFICATIONS AND INSTALLATION SHALL BE PERFORMED BY AN EXPERIENCED COMPANY REGULARLY ENGAGED IN THE INSTALLATION OF SPRINKLER SYSTEMS. THE COMPANY SHALL HOLD A CURRENT COMPETENCY CERTIFICATE ISSUED BY THE STATE OF GEORGIA.
- 13. RUN PIPE PARALLEL TO COLUMN CENTERLINES. PIPE SHALL BE INSTALLED AS HIGH AS POSSIBLE TO MAINTAIN MAXIMUM HEAD ROOM. PROVIDE AUXILIARY DRAINS TO DRAIN THE PIPING SYSTEM.
- HANGERS SHALL BE UL LISTED, GALVANIZED, FLAT BAND TYPE.
 SPRINKLER SYSTEM COVERAGE IS BASED ON A LIGHT HAZARD OCCUPANCY. MAXIMUM SPRINKLER COVERAGE IN FINISHED
- AREAS SHALL NOT EXCEED 225 SF.16. TORCH CUTTING IS NOT PERMITTED AS A MEANS OF MODIFYING SPRINKLER SYSTEMS.
- 17. EACH PORTION OF THE INTERIOR PIPING (NEW WORK ONLY) SHALL BE HYDROSTATICALLY TESTED FOR 2 HOURS AT 200 PSIG MEASURED AT THE BOTTOM OF THE SYSTEM. LEAKS SHALL BE REPAIRED UNTIL THE SYSTEM IS TIGHT FOR 2 HOURS. HYDROSTATIC TESTS SHALL BE MADE AFTER DROP NIPPLES HAVE BEEN CUT BACK AND SPRINKLER HEADS HAVE BEEN INSTALLED. SUBMIT A REPORT DESCRIBING TESTS AND CERTIFYING THE RESULTS.
- 18, WATERFLOW TEST REQUIRED PER NFPA 13-2016. CONTRACTOR TO FURNISH ONE SET OF SPRINKLER SHOP DRAWING TO THE FIRE MARSHAL OFFICE FOR REVIEW.
- 19. DO NOT USE EXISTING SPRINKLER HEADS. ALL SPRINKLER HEADS SHALL BE NEW.
- 20 SPRINKLER SHUT-DOWN PROCESSOR SHALL BE PER NFPA 13-2016. DO NOT LEAVES SPRINKLER SYSTEM DISCONNECTED OVER-NIGHT.

1 FIRE PROTECTION NOTES

	DATE
	DESCRIPTION
	Image: Colspanning colspanning colspanning colspanning colspanses RESOURCE ROOM Resource ROOM 80 JESSE HILL JR. DR., ATLANTA, GA, 30303 Respective colspanses
	Contraction of the acchitect. No benchanically, for any purpose, without the express written permission of the architect.
	FIRE PROTECTION NOTES
	PROJECT # 18N272 DATE 9/13/2021 DRAWN BY KOE CHECKED BY JCJ
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	DESCRIPTION DESCRIPTION
	GRADY HOSPITAL 16TH FLOOR RESIDENT'S RESOURCE ROOM 80 JESSE HILL JR., ATLANTA, GA, 30303
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95% CD REVIEW SET	Interferences16TH FLOOR PLANPROJECT #DATE9/13/2021DATE9/13/2021DRAWN BYKOE CHECKED BYJCJFP101SCALE1/8" = 1'-0"

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DUCTWORK AND AIR DISTRIBUTION

20X20	DUCT (FIRST DIMENSION IS SIDE SHOWN IN INCHES)
	DUCT LINING (1" THICK UNLESS 2" NOTED)
\ge	SUPPLY AIR DUCT SECTION
	RETURN OR OUTSIDE AIR DUCT SECTION
	EXHAUST AIR DUCT SECTION
R	INCLINED RISE (R) OR DROP (D), ARROW IN DIRECTION OF AIR FLOW
	TRANSITION
	PRESS-ON COLLAR FITTING WITH ROUND RIGID DUCT
	90° BRANCH TAKEOFF
	RADIUS BRANCH TAKEOFF
	STATIC PRESSURE SENSOR SENSING LOCATION
	TRANSITION FROM RECTANGULAR TO ROUND DUCTWORK
	DUCTWORK TEE WITH VANED ELBOWS
	CONTROL DAMPER (CD), BACKDRAFT DAMPER (BD), OR LOW LEAKAGE MANUAL DAMPER (LMD)
	MANUAL DAMPER
FD OR SD FD-H FD/SD	FIRE DAMPER (FD), 3 HOUR FIRE DAMPER (FD3), SMOKE DAMPER (SD), OR COMBINATION FIRE/SMOKE DAMPER (FD/SD), VERTICAL POSITION. H DENOTES 286°F FUSIBLE LINKS.
FD OR FD-H	FIRE DAMPER (FD), 3 HOUR FIRE DAMPER (FD3), SMOKE DAMPER (SD), OR COMBINATION FIRE/SMOKE DAMPER (FD/SD), HORIZONTAL POSITION. H DENOTES 286°F FUSIBLE LINKS.
12X12 S-	TURNING VANES
	SIDEWALL SUPPLY GRILLE OR REGISTER WITH SIZE, TYPE, AND CFM
12X12 R- 100	SIDEWALL RETURN OR EXHAUST GRILLE OR REGISTER WITH SIZE, TYPE, AND CFM
18X18 R- 600	CEILING RETURN OR EXHAUST GRILLE OR REGISTER WITH SIZE, TYPE, AND CFM
<u>12"Ø S-</u> 600 ₽─────	FLEXIBLE DUCT AND CEILING SUPPLY DIFFUSER WITH ROUND NECK SIZE, TYPE, AND CFM
	EXISTING DUCTWORK OR EQUIPMENT
	EXISTING DUCTWORK OR EQUIPMENT TO BE REMOVED
	24" x 24" CEILING RETURN GRILLE (R-EG UNLESS NOTED OTHERWISE)
24 X 12	24" x 12" SHEET METAL RETURN AIR OPENING IN WALL ABOVE CEILING LEVEL
, [™]	CONNECT TO EXISTING
Ø	ROUND DUCTWORK

HYDRONIC & STEAM PIPING

—— CHS ——
—— CHR ——
D
——HWS——
——HWR——
V
—— LPS ——
—— LPC ——

CHILLED WATER SUPPLY CHILLED WATER RETURN DRAIN HOT WATER SUPPLY HOT WATER RETURN VENT

LOW PRESSURE STEAM (0 PSIG THROUGH 15 PSIG) LOW PRESSURE STEAM CONDENSATE (0 PSIG THROUGH 15 PSIG)

PIPING AND VALVES PIPE ALIGNMENT GUIDE BLIND FLANGE HOSE END CONNECTION PIPE CAP DIRECTION OF FLOW ____**>**__ ELBOW - 45° ELBOW - 90° \bigcirc ELBOW - TURNED DOWN ELBOW - TURNED UP FLEXIBLE CONNECTOR - PIPING STRAINER **REDUCER - CONCENTRIC REDUCER - ECCENTRIC** TEE TEE OUTLET DOWN ____ TEE OUTLET UP _____ UNION OR FLANGE STEAM TRAP (SEE SPECIFICATIONS FOR TYPE AND USE) STEAM DRIP ASSEMBLY BALL OR BUTTERFLY VALVE (SEE SPECIFICATIONS FOR USE) CHECK VALVE VACUUM BREAKER 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE GATE VALVE RELIEF VALVE BALANCING VALVE FLOW CONTROL VALVE (M-MANUAL TYPE; A-AUTOMATIC TYPE) THERMOMETER PRESSURE GAUGE TEMPERATURE AND PRESSURE TEST PORT; PETE'S PLUG THERMOMETER TEST WELL EXISTING PIPING ____ ___ ___ EXISTING PIPING TO BE REMOVED ++++

CONTROLS AND SENSORS

رل ۲ EXISTING THERMOSTAT (ARROW INDICATES RELOCATION) TEMPERATURE SENSOR

GENERAL NOTE

- 1. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF GRILLES, REGISTERS AND DIFFUSERS.
- 2. PROVIDE LABELS FOR ALL EQUIPMENT LOCATED ABOVE THE CEILING. LOCATE LABELS ON THE CEILING GRID BELOW EQUIPMENT. ALL LABELS SHALL INDICATE THE EQUIPMENT TAG IN TYPED LETTERS. COORDINATE LABEL COLORS WITH THE ARCHITECT.
- 3. ALL EQUIPMENT, DIFFUSERS AND GRILLES SHOWN TO BE DEMOLISHED SHALL BE REMOVED FROM THE SITE OR TURNED OVER TO OWNER FOR RECYCLING.
- 4. ALL EXISTING DUCTWORK AND PIPING THAT IS TO BE CONNECTED INTO, DEMOLISHED, OR MODIFIED SHALL BE FIELD VERIFIED AND CONFIRMED BEFORE COMMENCING WORK. EXISTING DUCTWORK AND PIPE SIZES SHOWN WERE TAKEN FROM ORIGINAL DESIGN DOCUMENTS.
- 5. SCHEDULE SHUT-DOWNS IN ACCORDANCE WITH OWNER PROCEDURES. ASSUME ALL SYSTEMS ARE 'LIVE' UNLESS OTHERWISE NOTED.
- 6. DEMOLITION SCOPE INCLUDES REMOVAL OF ALL EXISTING DUCT AND PIPING BACK TO LAST MAIN OR VALVE. THERE SHALL BE NO ABANDONED PIPE OR DUCT.
- 7. PROVIDE MANUAL BALANCING DAMPERS AT EVERY BRANCH TAKE-OFF TO DIFFUSERS AND GRILLES.

INFECTION CONTROL PREVENTIVE MEASURES

. PROVIDE TEMPORARY EXHAUST FAN(S) DUCTED TO OUTDOOR TO KEEP THE CONSTRUCTION AREA UNDER NEGATIVE PRESSURE DURING COURSE OF RENOVATION.

2. PROVIDE AIRFLOW MONITORING DEVICES IN CONSTRUCTION BARRIERS TO SIGNAL WHEN NEGATIVE PRESSURES ARE NOT MAINTAINED.

3. UTILIZE VACUUM WITH HEPA FILTRATION TO CLEAN UP JOB SITE.

4. SEE ARCHITECTURAL DRAWINGS AND OWNER'S STANDARDS FOR ADDITIONAL INFECTION CONTROL PREVENTIVE MEASURES REQUIREMENT.

ABBREVIATIONS

3V	ABOVE	GPM	GALLONS PER MINUTE
D	ACCESS DOOR	GR	GRADE
F	ABOVE FINISHED FLOOR	HT	HOT TAP
G	ABOVE RAISED FLOOR	LAT	LEAVING AIR TEMPERATURE
۲F	ABOVE FINISHED GRADE	LWT	LEAVING WATER TEMPERATURE
Р	ACCESS PANEL	NC	NORMALLY CLOSED
PR	AIR PRESSURE	NO	NORMALLY OPEN
PD	AIR PRESSURE DROP	OA	OUTSIDE AIR
СН	ARCHITECT/ARCHITECTURAL	OC	ON CENTER
DD	BOTTOM OF DUCT	PS	PIPE STAND SUPPORT
-M	CUBIC FEET PER MINUTE	PRV	PRESSURE REDUCING VALVE
G	CEILING	RA	RETURN AIR
ЭL	COLUMN	REL	RELOCATE
NN	CONNECT/CONNECTION	REM	REMOVE
NT	CONTINUATION/CONTINUOUS	SA	SOUND ATTENUATOR
ГΕ	CONNECT TO EXISTING	SDA	STEAM DRIP ASSEMBLY
В	DRY BULB	SPEC	SPECIFICATION
N	DOWN	TEMP	TEMPERATURE
٧G	DRAWING	TS	TIGHT TO STRUCTURE
А	EXHAUST AIR	TYP	TYPICAL
٩T	ENTERING AIR TEMPERATURE	VFD	VARIABLE FREQUENCY DRIVE
EC	ELECTRICAL/ELECTRIC	WB	WET BULB
VT	ENTERING WATER TEMPERATURE	WG	WATER GAUGE
Х	EXISTING	WPD	WATER PRESSURE DROP
ΚP	EXPOSED		
С	FLEXIBLE CONNECTION		
Ľ	FLOOR		
PM	FEET PER MINUTE		
s	FEET PER SECOND		

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SCALE 1/8" = 1'-0"

					AIR	HANDLING	JNIT SCH	EDULE													
		SUPPLY FAN				ΜΔΧΙΜΙΙΜ	COOLING COIL	I AT °F	CONTROL	PRE	HEAT COIL (N	DTE 8)		VIBRATION IS	OLATION	-					
NO. AREA SERVED (NOTE 1) AC-86 16TH FLOOR	TYPE (NOTE 2)CFMDT-VT-CU-VV10,000	MAXIMUM TYPE ESP RPM (NOTE 3) IN. WG (NOTE 4) 3521 P-AF-D 3.75	MINIMUM MOTOR HP (NOTE 11) 13	MINIMU OA CFM 2000	JM CFM (NOTE 10,000	5) CHILLED WATER (NOTE 6) 0 55.0	R DB WB 78.0 65.4	DB WB 52.0 51.5	VALVE CFM TYPE (NOTE 7) 2 2,000	LBS/HR. E (NOTE 9) 214	EAT LAT °F °F 10 95	TYPE - N POSITION (NOTE 10) (N S-P	VALVE TYPE NOTE 7) 2	TYPE DEFLE	. STATIC ECTION, IN. 2	NOTES 12, 13, 14				DATE	
NOTES:																					
1. DESIGN CONDITIONS:	SUMMER		Z. TYPE: D	T DRAW-T	HROUGH		4. EXTERNAL S DIFFUSER SI	TATIC PRESSUR ECTION, OR UNIT	E DOES NOT INCLUDE MOUNTED HEATING A	JNIT CASING, PL ND COOLING CO	ENUMS, ILS,	9. LB	S/HR. BASE[D ON 15 PSIG ST	EAM ENTERIN	NG COIL.					
INDOOR	94°F DB, 74°F WB 74°F DB, 50% RH	10°F 72°F	V Cl	U CUSTON			BUT DOES IN					10. TY S	PE: STANDAF	RD		POSITION: P PREHEAT					
				V VARIABL			5. MAXIMUM 50 WIDTH COILS	0 FPM COIL FACE S ARE NOT ACCE	E VELOCITY, AND 0.75" PTABLE.	N.G. APD. EXTE	NDED	11. FA	N WALL: MU	JLTIPLE ACTIVE F	ANS TOTAL N	MOTOR HP.					
			S. FAN ITPE.				6. CHILLED WA	TER BASED ON 4	3°F EWT, 57°F LWT, AN	D MAXIMUM		12. SE	E AIR HAND	DLING UNIT DETA	IL.					RIPTION	
				D DIRECT	DRIVE		7 CONTROL VA					13. VA	RIABLE FRE	EQUENCY DRIVE						DESC	
							2 2-WAY					14. RE	FER TO THE	E ELECTRICAL D	RAWINGS FOI	R EQUIPMENT					
							8. CONDITIONS	REPRESENT MA	XIMUM LOAD ON COIL. 4 [.] 0 2" WG	MAXIMUM											
																				0	
																					03
		FAN SCHEDULE									TER	MINAL UN	IT SCH	HEDULE						Ç	S , 303
				MOTOR						TVDE			1			-					
NO. AREA SE	RVED (NOTE 1)	CFM PRESSURE, RF	PM HP	BR/	AKE (N 1P	IOTE 2) NOTES			NO.	(NOTE 1) MAXIMU COOLIN	M MAXIMUM G HEATING	MINIMUM	1 kW (NOTE 2)	NO. OF STEPS	NOTES					SIDE COON
EF1 UNISEX RE	STROOM CE	125 0.25 76	69 41 Watt	ts -		D			TU86-16-1	VV-R	330	165	100	2	SCR		-				
									TU86-16-3	VV-R	880	400	240 265	6	SCR					Η Η Η Η Η Η Η Η Η Η Η Η Η Η Η Η Η Η Η	R CI R
									TU86-16-4 TU86-16-5	VV-R VV-R	1305	655	395	8	SCR						
NOTES:	0								TU86-16-6 TU86-16-7	VV-R VV-R	1060 250	530 125	320 75	7 2	SCR SCR						
CE - CEILING EXHAU	Z.	B - BELT D - DIRECT							TU86-16-8 TU86-16-9	VV-R VV-R	1435 960	720 480	430 290	9	SCR SCR					IJ -	
		D DIALOT							TU86-16-10 TU86-16-1	VV-R	410	205 885	125 535	3	SCR SCR						161 SSE
											9920						1				, ЦЦ
																	-				80
									NOTES												
									<u>NOTES.</u> 1. TYPE:					۸ .							lrou
	AIR [DISTRIBUTION SCHE	DULE							CV CONSTANT				AI							OTCO RIVE, NW V 30318
									2. CAPACITY 3. SEE SPEC	BASED ON 55°F	AHRI TESTINC	AND CV-R UNITS	s. REQUIREMI	IENTS AND SUPF	LEMENTAL S	OUND ATTENUAT)N REQUIREMEN [.]	NTS.			
MARK TYPE		DESCRIPTIC	ON			NOTES			FOR TERMI THE MAXIM	NAL UNITS WHE UM ALLOWABLE	RE THE SOUN SOUND POWI	D POWER LEVEL ER LEVELS IN dB	FIELDS OF @ 10pW SH/	THE SCHEDULE IALL BE THE FOL	ABOVE ARE L LOWING LEVE	.EFT BLANK, ELS:					1700 CON ATLANTA
S1 PLENUM SLOT DIFFUSER	4' LONG WITH	(2) 1" SLOTS										(ND						THIS DRAWIN(SERVICE AM	NG IS AN INSTRUMEN AND SHALL REMAIN TH
S2 CEILING SUPPLY DIFFUSER	SQUARE PLAT	E DIFFUSER TYPE WITH SINGLE SQ	UARE AIR DIFFUS	ION PANEL						CASING RA		400 CEM	71	63	_					PROPERTY O PART OF THIS REPRODUCE ANY FORM, MECHANICAL	OF THE ARCHITECT. IIS DOCUMENT SHALL CED OR TRANSMITTED M, ELECTRONICALLY C
E1 CEILING EXHAUST GRILLE	0.5" X 0.5" X 0.	5" ALUMINUM EGGCRATE								DISCHARG	E, 400 CFM TO E, 900 CFM OF	900 CFM MORE	66 68	50 59 61						WITHOUT TH PERMISSION	THE EXPRESS WRITTE
					_					SED ON MAXIMU					ESSURE OF 1'		V UNITS.				
									4. DIFFEREN EXCEED 0.3	"WG APD.						νις, Γ ΟΝ ALL UNIT				F	HVAC
									5. REFER TO 6. THE DRAW AND ACCES REQUIREM	INE ELECTRICA INGS INDICATE S DOORS. IF TE ENTS SHALL BE	L DRAWINGS THE DESIGN II ERMINAL UNIT ADJUSTED IN	-UR THE EQUIPN ITENT TO PROVII S PROVIDED ARE THE FIELD.	DE ACCESS CONFIGUR	TO HEATING CORE DIFFERENTL	ERISTICS. MLS, CONTRO Y, THE ACCES	DL PANELS, SS				SCHI	EDULE
									·												
																				PROJECT #	# 18N;

	SUMMER	WINTER	DT	DF
OUTSIDE	94°F DB, 74°F WB	10°F	VT	VE
INDOOR	74°F DB, 50% RH	72°F	CU	CL
			VV	VA

AIR DISTRIBUTION SCHEDULE					
MARK	TYPE	DESCRIPTION	NOTES		
S1	PLENUM SLOT DIFFUSER	4' LONG WITH (2) 1" SLOTS			
S2	CEILING SUPPLY DIFFUSER	SQUARE PLATE DIFFUSER TYPE WITH SINGLE SQUARE AIR DIFFUSION PANEL			
E1	CEILING EXHAUST GRILLE	0.5" X 0.5" X 0.5" ALUMINUM EGGCRATE			

R			
MAXIMUM	DRIVE		
BRAKE	(NOTE 2)	NOTES	
HP			
	D		

	PI	REHEAT	COIL (NO	TE 8)	CONTROL	VIBRA	TION ISOLATION	۱	
E CFM 5 7)	LBS/HR. (NOTE 9)	EAT °F	LAT °F	TYPE - POSITION (NOTE 10)	VALVE TYPE (NOTE 7)	TYPE	MIN. STATIC DEFLECTION, II	; IN.	NOTES
2,000	214	10	95	S-P	2	FS	2	1	2, 13, 14
OT INCLUDE UN	IIT CASING,	PLENU	MS,	9. L	_BS/HR. BASE	:D ON 15 F	SIG STEAM ENT	TERING CO	DIL.
D HEATING AND	COOLING (COILS,		10. 1	TYPE:			POSI	ITION:
Y, AND 0.75" W	G. APD. FX		C		S STANDA	RD		Р	PREHEAT
, <u> </u>				11. F	FAN WALL: M	JLTIPLE A	CTIVE FANS TOT	TAL MOTOF	R HP.
57°F LWT, AND N	MAXIMUM			12. \$	SEE AIR HANI	DLING UNI	T DETAIL.		
				13. \	/ARIABLE FR	EQUENCY	DRIVE.		
				14. F	REFER TO TH			S FOR EQU	IIPMENT
AD ON COIL. M	IAXIMUM			E	ELECTRICAL	CHARACT	ERISTICS.		
			TERM	/INAL U	NIT SCI	HEDU	LE		
				PRIMARY C	FM	ELE	CTRIC HEATING	COIL	
NO		E = 1)	Μαχινιικ				ACITY		NOTES
NU.		- ')	COOLING	B HEATING		(NO	TE 2) STE	EPS	NUIES
TU86-16-1	VV-I	R	330	165	100		2 SC	CR	
TU86-16-2	VV-	R R	800 880	400	240		5 SC	CR	
TU86-16-4	VV-	R	720	360	200		5 SC	CR	
TU86-16-5 TU86-16-6	VV-	R R	1305 1060	655 530	395 320		8 SC 7 SC	CR CR	
TU86-16-7	VV-	R	250	125	75		2 SC	CR	
TU86-16-8 TU86-16-9	VV-	R R	1435 960	720 480	430		9 SC 6 SC	CR CR	
TU86-16-10	VV-	R	410	205	125		3 SC	CR	
1000-10-11	V V-		9920	000	535				
NOTES:									
1. TYPE: V	V VARIABL	.e volu	ME -		R REHE	AT			
		NT VOL			TS				
2. CAFACITY BA 3. SEE SPECIFIC	CATIONS FC				DN REQUIREN	IENTS AN	D SUPPLEMENT	AL SOUND	ATTENUAT
FOR TERMINA	AL UNITS WH	HERE TI LE SOU	HE SOUND ND POWEF	POWER LEVE R LEVELS IN d	EL FIELDS OF IB @ 10pW SH	THE SCH	EDULE ABOVE A HE FOLLOWING I	ARE LEFT B LEVELS:	BLANK,
						ND			
							4		
	DISCHAF	RGE, LE	ED SS THAN 4	00 CFM	71 64	({	56 		
	DISCHAF DISCHAF	RGE, 400 RGE, 900) CFM TO 9) CFM OR 1	900 CFM MORE	66 68	Ę	59 51		
LEVELS BASE						ITIAL STA		OF 1" WG F	
4. DIFFERENTIA EXCEED 0.3" V	L STATIC P NG APD.	RESSU	KE DROP A	ACROSS COMI	PLETE ASSEI	/IBLY, INC		g Coil, fo	R ALL UNIT
			AWINGS F	OR THE EQUIP				S.	
AND ACCESS	DOORS. IF	TERMI זיי חב	NAL UNITS		RE CONFIGUI	RED DIFFE	RENTLY, THE AC	CCESS	,
	TO OTIALL E	ie adje							

	PREHEA	T COIL (NO	DTE 8)		VIBRATION IS	OLATION	_
LBS/HR. (NOTE 9)	EAT °F	LAT °F	TYPE - POSITION (NOTE 10)	VALVE TYPE (NOTE 7)	MIN TYPE DEFLE	. STATIC ECTION, IN.	NOTES
214	10	95	S-P	2	FS	2	12, 13, 14
	G, PLENU	JMS,	9. LI	BS/HR. BASEI	O ON 15 PSIG ST	EAM ENTERII	NG COIL.
COOLING	G COILS,		10. T	YPE:			POSITION:
. APD. E	XTENDE	Đ	:	S STANDAF	RD		P PREHEAT
			11. F.	AN WALL: MU	LTIPLE ACTIVE F	ANS TOTAL N	MOTOR HP.
AXIMUM			12. S	EE AIR HAND	LING UNIT DETA	IL.	
			13. V	ARIABLE FRE	QUENCY DRIVE.		
			14. R F	EFER TO THE	E ELECTRICAL DE	RAWINGS FOI	REQUIPMENT
XIMUM			L			0.	
		TER	MINAL UI	NIT SCH	IEDULE		
т∨	′PF		PRIMARY CF	M			-
(NO	TE 1)			MINIMUM		NO. OF	NOTES
		COULIN				SIEPS	
V\ \/\	/-R /-R	330 800	165 400	100 240	2	SCR SCR	
V	/-R	880	440	265	6	SCR	
V\ V\	/-R /-R	720 1305	360 655	220 395	5	SCR SCR	
V\ V	/-R	1060	530	320	7	SCR	
V\ V\	/-K /-R	250 1435	125 720	75 430	2 9	SCR SCR	
V\ \	/-R	960	480	290	6	SCR	
V\ V\	/-K /-R	410 1770	205 885	125 535	<u> </u>	SCR SCR	
		9920					
						<u> </u>	
VARIAE		UME -		R REHEA	AT		
ED ON 5	55°F EAT	FOR VV-R	AND CV-R UNIT	rs.			
ATIONS F UNITS V	FOR AHR VHERE T	RI TESTING THE SOUNI	CERTIFICATIO	N REQUIREM	ENTS AND SUPP	LEMENTAL S ABOVE ARE L	OUND ATTENUAT .EFT BLANK,
ALLOWA	BLE SOL	JND POWE	ER LEVELS IN de	3 @ 10pW SH/	ALL BE THE FOLL	LOWING LEVE	ELS:
					ND		
CASING	G RADIAT	TED		<u> </u>	4 63	_	
DISCH/ DISCH/	ARGE, LE Arge, 40	ESS THAN 00 CFM TO	400 CFM 900 CFM	64 66	56 59		
	ARGE, 90 (IMI IM PI	0 CFM OR	MORE	68 IM DIFFEREN ¹	61 TIAL STATIC PRE		" WG FOR \/\/ ΔΝΓ
STATIC	PRESSU	JRE DROP	ACROSS COMP	PLETE ASSEM	BLY, INCLUDING	HEATING CC	IL, FOR ALL UNIT
APD. ELECTF	RICAL DF	RAWINGS I	FOR THE EQUIP	MENT ELECT	RICAL CHARACT	ERISTICS.	
							NL PANELS,
SHALL	BE ADJ	USTED IN	THE FIELD.		UIFFEKENIL		50

M300

SCALE 1/8" = 1'-0"

EDM

JCJ

DRAWN BY

CHECKED BY

3" PIPE -

NOTES: 1. NECK AND PLENUM LENGTH SHALL BE DETERMINED BY ACTIVE DIFFUSER LENGTH. 2. DIFFUSER MOUNTING FRAME SHALL BE DETERMINED BY CEILING CONSTRUCTION AND MOUNTING CONDITIONS. SEE ARCHITECTURAL DRAWINGS. OTHER UTILITIES.

M401 NO SCALE

LINEAR DIFFUSERS

- 4. SEE DRAWINGS FOR SPECIAL PLENUM SIZES.
- 3. TRANSITION AND/OR ADJUST PLENUM DIMENSIONS TO COORDINATE WITH STRUCTURE OR
- 2 M401 NO SCALE

CONDENSATE DRAIN FOR DRAW THROUGH COOLING COILS M401 NO SCALE

RECEPTOR FLOOR DRAIN OR ROOF RECEPTOR ADJACENT TO EQUIPMENT. 3. WHERE SUPPORTED, ISOLATE DRAIN PIPING FROM CLAMPS WITH TYPE PI ISOLATORS.

2. EXTEND DRAIN PIPING AS INDICATED ON THE DRAWINGS OR TO THE NEAREST INDIRECT WASTE

NOTES: 1. PIPING SHALL BE FULL SIZE OF DRAIN CONNECTION.

M401 NO SCALE

<u>NOTES:</u> 1. IF CONDENSATE RISES VERTICALLY, PROVIDE CHECK VALVE UPSTREAM OF LAST GATE VALVE IN CONDENSATE LINE. 2. COLLECTING LEG SHALL BE LINE SIZE BUT NO MORE THAN 4" DIAMETER.

STEAM MAIN -

REMOVABLE CAP

STEAM HEATING COILS

- 5. DELETE INDIVIDUAL COIL ISOLATION VALVES IN SINGLE COIL APPLICATION. 6. COIL CONNECTION PIPE SIZES SHALL BE EQUAL TO THE STEAM AND LPC MAIN SIZES.
- 4. TWO COIL SECTIONS ARE SHOWN. PROVIDE DEDICATED STEAM LINE, STEAM TRAP, VACUUM BREAKER, AND ACCESSORIES FOR EACH COIL SECTION PROVIDED.
- 2. 30" MINIMUM ON RETURN LEG IS NOT REQUIRED EXCEPT IN PREHEAT APPLICATIONS. 3. INSTALL VACUUM BREAKERS AS CLOSE AS POSSIBLE TO COILS.
- <u>NOTES:</u> 1. COIL CONNECTIONS SHALL BE ARRANGED TO ACCOMMODATE COIL PULL AND TO ISOLATE COIL PIPING FROM SYSTEM

COIL, TYPICAL

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TERMINATE WITH THREADED CAP OR FLANGE AND PROVIDE ACCESS CLEARANCE. 6 STEAM DRIP ASSEMBLY

WATER COILS WITH 2-WAY VALVES IN AHUS

3. DELETE INDIVIDUAL COIL ISOLATION VALVES IN SINGLE COIL APPLICATIONS.

<u>NOTES:</u>
1. COIL CONNECTIONS SHALL BE ARRANGED TO ACCOMMODATE COIL PULL AND TO ISOLATE COIL PIPING FROM SYSTEM. 2. PROVIDE MEANS OF DRAINING AND VENTING EACH COIL.

NOTES:

- 1. MAINTAIN MINIMUM 7" HIGH CLEARANCE FROM BOTTOM OF CEILING FOR LUMINAIRES
- 2. DO NOT LOCATE SPRINKLER PIPE FITTINGS UNDER DUCTWORK, DUCTWORK FLANGES, OR TERMINAL UNITS UNLESS 7" CLEARANCE CAN BE MAINTAINED.
- 3. OFFSET TERMINAL UNITS AND CONNECTING DUCTWORK UP INTO STRUCTURE OR BETWEEN JOISTS TO MAINTAIN 7" CLEARANCE WHERE UNITS HAVE A DEPTH
- GREATER THAN 16". 4. OFFSET DUCTWORK AND RUNOUTS TO PASS BETWEEN LUMINAIRES TALLER
- THAN 6.75". 5. OFFSET PIPING, DUCTWORK AND EQUIPMENT TO ACCOMMODATE CEILING COVES AND FRAMING.

NOTES:

- 1. INSTALL DAMPERS IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
- 2. TAPE INSULATION TO DUCT AT BREAKAWAY CONNECTIONS. BREAKAWAY CONNECTIONS AND RETAINING ANGLES SHALL
- BE VISIBLE.
- 3. TYPE B FIRE DAMPER SHOWN. INSTALLATION SIMILAR FOR TYPE A AND TYPE C DAMPERS.

- 5. SEAL BREAKAWAY CONNECTIONS.

DUCT WALL PENETRATIONS WITH FIRE DAMPER

- 4. INSTALLATION SIMILAR FOR COMBINATION FIRE/SMOKE DAMPERS.

- 6. LOCATE ACCESS PANEL ON SIDE OF WALL WITH NO CEILING, OR OVER CORRIDOR CEILING, WHERE APPLICABLE.

PROJECT # 18N272 DATE 9/13/2021 DRAWN BY EDM CHECKED BY JCJ

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BCS PANEL			OU	TPUTS	INF	PUTS			SO	FTWARE			
INPUT/OUTPUT		D	GITAL	ANALOG	DIGITAL	ANAL	DG AL	ARM	BCS	ENER	GY MGMT.		
SUMMARY													
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			IVA		ACT ACT		З Ч Ц	IZAI	<u>N</u>	STA STA	Ч С С К	VOT	:
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	SY	л Т	ЬЧ	BCB	PL AL DI		ST CP		R R	E O O	BAR ENC	FA	Z
AIR HANDLING UNIT (AC-86)	X												_
MAXIMUM OUTSIDE AIR DAMPER				X					X			C	\perp
			X									C	<u> </u>
MIXED AIR PLENUM STATIC PRESSURE												_	
				X								0	-
				X					X			C	-
				X					X				
						X	X	×				-	-
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L													1

NOTES:

1. FAILURE MODE

O - ON OR OPEN

C - OFF OR CLOSE

L - LAST COMMAND

2. WHERE FAILURE MODE IS INDICATED, THE INDICATED POSITION SHALL OCCUR ON FAILURE OF THE BCS CONTROLLER OR ITS OUPUT FOR ANY REASON.

3. LOCATE OUTSIDE AIR TEMPERATURE SENSOR ON A NORTH FACING WALL OUT OF DIRECT SUNLIGHT

4. FAN SHALL FAIL TO 50% SPEED.

30303 S Ζ PITAL SIDE ROON ℃ ⊅ л С П С П С П S Ч 0 Т N \Box $0\overline{5}$ \succ H FLO RESOL HILL JR. GRAI SSE 16T 80 SUPPLY DUCT STATIC Q THIS DRAWING IS AN INSTRUMENT OF SERVICE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. NO PART OF THIS DOCUMENT SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM, ELECTRONICALLY OR MECHANICALLY, FOR ANY PURPOSE, WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE ARCHITECT HVAC CONTROLS PROJECT # 18N272 DATE 9/13/2021 DRAWN BY EDM CHECKED BY JCJ M501

SEQUENCE OF OPERATION THE CONTROLS FOR SYSTEM AC-86 (SERVING 16TH FLOOR) SHALL FUNCTION AS FOLLOWS: THE SYSTEM SHALL BE AUTOMATICALLY STARTED AND STOPPED BY THE BCS CONTROLLER WHENEVER THE HAND-OFF-AUTOMATIC SWITCH IS IN THE AUTOMATIC POSITION, AND MANUALLY STARTED AND STOPPED BY THE HAND POSITION. CONTROLS SHALL BE ENERGIZED, AND THE RETURN DAMPER SHALL OPEN PRIOR TO FAN STARTING. THE MINIMUM OUTSIDE AIR DAMPER SHALL OPEN. MODULATE THE CHILLED WATER VALVE TO MAINTAIN SYSTEM DISCHARGE AIR TEMPERATURE SETPOINT OF 55F (ADJUSTABLE). MODULATE THE VARIABLE FREQUENCY DRIVE TO MAINTAIN DUCT STATIC PRESSURE SETPOINT. MODULATE THE RETURN AIR DAMPER TO MAINTAIN MIXING PLENUM STATIC PRESSURE AS MEASURED BY A STATIC PRESSURE SENSOR IN THE MIXED AIR PLENUM AT THE SETPOINT DETERMINED BY THE TEST AND BALANCE WORK TO MAINTAIN THE MINIMUM OUTSIDE AIR QUANTITY. THE PREHEAT COIL LEAVING AIR TEMPERATURE SETPOINT SHALL BE 3F (ADJUSTABLE) LESS THAN THE SYSTEM DISCHARGE AIR TEMPERATURE SETPOINT. UPON A DROP IN OUTSIDE AIR TEMPERATURE BELOW PREHEAT COIL LEAVING AIR TEMPERATURE SETPOINT, MODULATE THE PREHEAT COIL STEAM VALVE TO MAINTAIN COIL DISCHARGE TEMPERATURE SETPOINT, SENSED BY AN AVERAGING ELEMENT LOCATED IMMEDIATELY DOWNSTREAM OF THE PREHEAT COIL. THIS CONTROL SHALL REMAIN ACTIVE AT ALL TIMES, INCLUDING UNIT SHUTDOWN. INITIATE ECONOMIZER MODE OPERATION ON A DROP IN OUTSIDE AIR DRY BULB TEMPERATURE BELOW SETPOINT, APPROXIMATELY 65F (ADJUSTABLE). WITH THE UNIT OPERATING IN THE ECONOMIZER MODE, MODULATE THE RELIEF AND MAXIMUM OUTSIDE AIR DAMPERS TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT. IF THE MAXIMUM OUTSIDE AIR DAMPER IS FULLY OPEN AND THE DISCHARGE AIR TEMPERATURE SETPOINT STILL IS NOT SATISFIED, THE CHILLED WATER VALVE SHALL BE MODULATED OPEN TO SATISFY DEMAND. A LOW LIMIT CONTROL WITH AVERAGING ELEMENT SENSING AIR ENTERING THE COILS, OVERRIDING OTHER DAMPER CONTROLS, SHALL MODULATE THE MAXIMUM OUTSIDE AIR, AND RELIEF DAMPERS TO LIMIT MIXED AIR TEMPERATURE TO 45F (ADJUSTABLE) MINIMUM. A SEPARATE LOW LIMIT SAFETY SENSING AIR ENTERING THE COOLING COIL SET AT 40F (ADJUSTABLE), SHALL STOP THE FAN. ON POWER INTERRUPTION OR FAN SHUTDOWN, THE OUTSIDE AIR AND RETURN DAMPERS, AND CHILLED WATER AND STEAM VALVES SHALL CLOSE. SMOKE DETECTORS IN THE RETURN AIR DUCT AND DOWNSTREAM OF THE FILTERS IN THE SUPPLY DUCT SHALL AUTOMATICALLY SHUT DOWN THE FAN. ON ACTIVATION OF THE FIRE ALARM SYSTEM RELAY, THE SYSTEM SHALL SHUT DOWN.

CONTROL SCHEMATIC FOR AIR HANDLING UNIT AC-86

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SCALE **1/8" = 1'-0"**

SEQUENCE OF OPERATION THE CONTROLS FOR FAN <u>EF1</u> (SERVING SMALL TOILET) SHALL FUNCTION AS FOLLOWS:

1

1. A WALL SWITCH SHALL START AND STOP THE FAN.

SEQUENCE OF OPERATION:

- 1. ON A DROP IN SPACE TEMPERATURE BELOW COOLING SETPOINT, EACH TERMINAL UNIT CONTROLLER SHALL MODULATE THE PRIMARY AIR VALVE TO THE MINIMUM FLOW.
- 2. IF THE SPACE TEMPERATURE FALLS THROUGH THE 5°F SPACE TEMPERATURE DEADBAND TO THE HEATING SETPOINT, THE TERMINAL UNIT CONTROLLER SHALL MODULATE THE PRIMARY AIR VALVE BETWEEN THE MINIMUM AND MAXIMUM HEATING FLOWS TO THE MAXIMUM HEATING FLOW AND MODULATE THE ELECTRIC HEATING COIL IN PARALLEL TO MAINTAIN THE HEATING SPACE TEMPERATURE SETPOINT.

M502 NO SCALE

CONTROL SCHEMATIC FOR FAN EF1

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MAXIMUM COOLING AIRFLOW SETPOINT

- AIRFLOW SETPOINT

→BCS SUPPLY AIR

- TERMINAL UNIT CONTROLLER

BCS PANEL			OU.	TPU	TS			IN	PU	ΓS								ç	SOI	FTW	/AR	E						
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NOTES:

1. FAILURE MODE: O - ON OR OPEN, C - OFF OR CLOSE, L - LAST COMMAND 2. TERMINAL UNIT CONTROLS AND INTERFACES SHALL BE ARRANGED SO THAT EQUIPMENT CONTROLLED BY THE BCS OPERATES AS INDICATED ON FAILURE OF THE TERMINAL UNIT CONTROLLER FOR ANY REASON, INCLUDING LOGIC POWER SUPPLY FAILURE,

OPERATIONAL INTERLOCKS SHALL REMAIN IN EFFECT.

3. PROVIDE TERMINAL UNIT BCS CONTROLLER WITH IDENTICAL CONTROL POINTS AND FUNCTIONS FOR EACH TERMINAL UNIT.

DATE										
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PLUMBING LEGEND

<u>SYMBOLS</u>

SOIL (S) OR WASTE (W) ABOVE FLOOR OR GRADE ABV SOIL (S) OR WASTE (W) BELOW FLOOR OR GRADE AFF/AFG/ARF WENT (V) AP RW RAINWATER (RW) ABOVE FLOOR OR GRADE ARCH RW RAINWATER (RW) BELOW FLOOR OR GRADE ARCH ORW OVERFLOW RAINWATER (ORW) ABOVE FLOOR OR GRADE BEL ORW OVERFLOW RAINWATER (ORW) ABOVE FLOOR OR GRADE BF ORW OVERFLOW RAINWATER (ORW) BELOW FLOOR OR GRADE CLG ORW OVERFLOW RAINWATER (ORW) BELOW FLOOR OR GRADE CLG ORW OVERFLOW RAINWATER (ORW) BELOW FLOOR OR GRADE CLG ORW OVERFLOW RAINWATER (ORW) BELOW FLOOR OR GRADE CLG ORW OVERFLOW RAINWATER (ORW) BELOW FLOOR OR GRADE CLG ORW OVERFLOW RAINWATER (ORW) BELOW FLOOR OR GRADE CLG OR COLD WATER (CW) CONC HOT WATER (RW) CONC CONN OR DRAIN CONT DN Image: FLOOR CLEANOUT (FCO) DW DN Image: FLOOR CLEANOUT (FCO) DW ELE Image: FLOOR CLEANOUT (FCO) DW ELEC	 ABOVE ABOVE FINISHED FLOOR/GRADE/RAISED FLOOR ACCESS PANEL ARCHITECT/ARCHITECTURAL BELOW BELOW FLOOR CEILING COLUMN CONCRETE
SOIL (S) OR WASTE (W) BELOW FLOOR OR GRADE AFF/AFG/ARF RW RAINWATER (RW) ABOVE FLOOR OR GRADE AP RW RAINWATER (RW) ABOVE FLOOR OR GRADE ARCH RW RAINWATER (RW) BELOW FLOOR OR GRADE BEL ORW OVERFLOW RAINWATER (ORW) ABOVE FLOOR OR GRADE BF ORW OVERFLOW RAINWATER (ORW) BELOW FLOOR OR GRADE BF ORW OVERFLOW RAINWATER (ORW) BELOW FLOOR OR GRADE CIG COLD WATER (CW) COL COL HOT WATER (RW) CONC HOT HOT WATER (RW) CONC CONN T TRAP PRIMER (T) CONT IN ROOF DRAIN (RD) DN IN FLOOR CLEANOUT (FCO) DW IN STRAINER ELE IN UNION OR FLANGE ELE IN UNION OR FLANGE ELE IN CHECK VALVE FD IN CHECK VALVE FS IN CHECK VALVE FS	 ABOVE FINISHED FLOOR/GRADE/RAISED FLOOR ACCESS PANEL ARCHITECT/ARCHITECTURAL BELOW BELOW FLOOR CEILING COLUMN CONCRETE
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ORW OVERFLOW RAINWATER (ORW) ABOVE FLOOR OR GRADE BF Image: Solution of the sol	BELOW FLOOR CEILING COLUMN CONCRETE
Image:	CEILING COLUMN CONCRETE
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+ WALL HYDRANT EX ▷ PRESSURE REDUCING VALVE FD ▷ CHECK VALVE FS ○ GLOBE VALVE HC ▷ AUTOMATIC OR MANULAL ELOW/CONTROL ELTTING HD	ELECTRICAL/ELECTRIC
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N CHECK VALVE FS IM GLOBE VALVE HC IM AUTOMATIC OR MANUAL ELOW CONTROL ELTTING HD	FLOOR DRAIN
GLOBE VALVE HC	FLOOR SINK
	HANDICAPPED
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D BALANCING VALVE IM	ICE MACHINE/ICE MAKER
GAS PRESSURE REGULATOR LAV	LAVATORY
■ GAS VALVE MECH	MECHANICAL
GATE VALVE OR BUTTERFLY VALVE RD	ROOF DRAIN
CATE VALVE IN VERTICAL RISE REL	RELOCATE
ៅ BALL VALVE REM	REMOVE
BALL VALVE IN VERTICAL RISE SHT	SHEET
WATER HAMMER ARRESTER SPEC	SPECIFICATION
\triangle TRAP PRIMER SS	SERVICE SINK
△○ TRAP PRIMER WITH DISTRIBUTION UNIT SSTL	STAINLESS STEEL
FBA-X FLOW BALANCING ASSEMBLY TEMP	TEMPERATURE
FMFLOW METERTP	TRAP PRIMER
TR	THROUGH ROOF
UC	UNDERCOUNTER

ABBREVIATIONS

UNDERGROUND

VACUUM BREAKER

WATER CLOSET

VENT THROUGH ROOF

URINAL

UG

VB

VTR

WC

PLUMBING RENOVATION NOTES

THROUGHOUT THE RENOVATION SCOPE AND PERIOD, NOTE THE FOLLOWING REFERENCES TO DEMOLITION AND NEW WORK:

- 1. THESE DRAWINGS DO NOT PURPORT TO INDICATE ALL EXISTING CONDITIONS.
- 2. WHERE AVAILABLE, EXISTING PLUMBING PIPING THAT REQUIRES A CONNECTION, DEMOLITION OR MODIFICATION, SHALL BE VERIFIED IN THE FIELD BEFORE COMMENCING WORK. CONTRACT DOCUMENTS OR AS-BUILT DRAWINGS WERE REFERENCED TO INDICATE EXISTING PIPE SIZES.
- 3. EXISTING PLUMBING PIPING THAT REQUIRES DEMOLITION SHALL BE REMOVED FROM THE SITE. UNLESS OTHERWISE NOTED, EXISTING PIPING OR PIPE HANGERS SHALL NOT BE ABANDONED IN PLACE.
- 4. WHERE THE EXISTING STRUCTURE OR SURROUNDING INTERIOR IS DAMAGED DURING THIS CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING REPAIRS TO MATCH EXISTING FINISHED CONDITIONS.
- 5. UNLESS NOTED OTHERWISE, PLUMBING EQUIPMENT RENDERED USELESS SHALL BE REMOVED FROM THE SITE.
- 6. WHERE REQUIRED, DOMESTIC WATER PIPING SHALL BE INSULATED, INCLUDING EXISTING UN-INSULATED DOMESTIC WATER PIPING THAT REQUIRES INSULATION.
- 7. PLUMBING PIPING SYSTEM(S) SHALL BE LABELED COMPLETE WITH PIPE IDENTIFICATION AND FLOW ARROWS, INCLUDING EXISTING UNLABELED PIPING SYSTEM(S). ENSURE PROPER DIRECTION OF FLOW FOR PIPING FLOW ARROWS.
- 8. ALL NEW VALVES SHALL BE ACCESSIBLE WITH VALVE TAGS, AND FULLY OPERABLE.
- 9. PIPE CONNECTIONS TO EXISTING BRANCH PIPING, EQUIPMENT AND PIPING RISERS, SHALL MATCH THE EXISTING PIPE SIZES.
- 10. PLUMBING EQUIPMENT AND ASSEMBLIES SHALL BE INSTALLED TO HAVE CLEAR ACCESS FOR MAINTENANCE.
- 11. WHERE EXISTING PLUMBING PIPING IS VERTICALLY ROUTED IN A CHASE OR WALL WHICH WILL BE DEMOLISHED, EXISTING PIPING SHALL OFFSET AND ROUTE TO A FEASIBLE ALTERNATIVE CHASE OR WALL TO AN ABOVE OR **BELOW RECONNECTION.**
- 12. PLUMBING PIPING ROUTED IN CHASES AND WALLS SERVING FIXTURES, SHALL BE ANCHORED AND SECURED SO THAT NO MOTION OCCURS AFTER INSTALLATION OF FINISHED WALLS.
- 13. REUSED OR RELOCATED PLUMBING FIXTURES AND TRIM SHALL BE REMOVED, REFURBISHED AND STORED FOR REINSTALLATION.
- 14. WATER HAMMER ARRESTERS SHALL BE PROVIDED NEAR PLUMBING FIXTURES AT LOW POINTS. IN WALLS OR CHASES, AND AS INDICATED ON DRAWINGS.
- 15. WHERE REQUIRED, PLUMBING PIPING DROPS, STACKS AND RISERS SHALL BE PROPERLY SECURED TO WALLS OR COLUMNS.
- 16. EXISTING HOT AND COLD WATER PIPING SHALL NOT HAVE DEAD LEGS GREATER THAN (3) INCHES. PIPING BRANCHES SHALL PROPERLY TERMINATE WITH A VALVED AND CAPPED STUB.
- 17. EXISTING FLOOR DRAINS, FLOOR SINKS, HUB DRAINS AND ASSOCIATED PIPING TO REMAIN IN SERVICE, SHALL BE RODDED OUT, CLEANED AND PROTECTED FOR THE RENOVATION.
- 18. WHERE NOTED ON THE DRAWINGS, THE EXISTING DRAINAGE SYSTEM SHALL BE RODDED OUT TO ENSURE ADEQUATE FLOW THROUGH THE SYSTEM.
- 19. EXISTING ABOVE GROUND DRAINAGE PIPING RENDERED USELESS SHALL BE REMOVED BACK TO THE NEAREST ACTIVE LINE AND CAPPED IN PLACE.
- 20. UPON COMPLETION OF WORK, DEAD-LEGS NO LONGER THAN 6" SHALL REMAIN IN EXISTING DRAINAGE SYSTEM, EXCEPT AT CLEANOUTS AND WHERE PIPING IS INDICATED FOR FUTURE USE.
- 21. LOW PRESSURE REDUCING VALVE ASSEMBLIES SHALL BE PROVIDED AT SPECIALTY EQUIPMENT, I.E., ICE MACHINES, COFFEE MAKERS, BEVERAGE DISPENSERS, LAB EQUIPMENT, ETC.
- 22. PIPE PENETRATIONS AND SLAB OPENINGS SHALL BE PROPERLY CAULKED AND SEALED ACCORDINGLY.
- 23. WHERE INDICATED, SAW CUTS TO EXISTING FLOOR SLAB SHALL BE REQUIRED TO LOCATE, CONFIRM, CONNECT TO AND OR INSTALL PLUMBING PIPING SYSTEMS.

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F2B	LAVATOR
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WATER CLOSET FLUSH VALVE

0.5" COPPER DRAIN IN CHASE -

> 1. TRAP PRIMER LINE, DOWNSTREAM OF TRAP PRIMER DEVICE TO FLOOR DRAIN, SHALL BE ROUTED WITH DOWNWARD GRAVITY SLOPE TOWARD FLOOR DRAIN. POCKETS, UPWARD TURNS AND/OR TRAPS IN THE GRAVITY LINE SHALL NOT BE PERMITTED. 2. TRAP PRIMER PIPING FOR FLOOR DRAINS THAT HAVE THE TRAP PRIMER CONNECTION ON THE DRAIN BODY SHALL BE RUN IN FLOOR FILL. PROVIDE CONTINUOUS POLYETHYLENE SLEEVE WHERE PIPING RUNS IN FLOOR FILL 3. THIS DETAIL APPLIES TO WALL HUNG AND FLOOR MOUNTED FLUSH VALVE WATER CLOSETS. SEE PLUMBING FIXTURE SCHEDULE FOR FIXTURE TYPE.

PLUMBING FIXTURE SCHED	ULE			
	PIP	ING CONN	ECTION S	SIZE
FIXTURE TYPE	HW	CW	S OR W	FLOW
OSET FLOOR TYPE, SENSOR FLUSH VALVE	-	1"	4"	1.28 GPF
OSET FLOOR TYPE, SENSOR FLUSH VALVE, ADA USABLE	-	1"	4"	1.28 GPF
(RECTANGLE) COUNTERTOP, SENSOR FAUCET, ADA USABLE	0.5"	0.5"	1.25"	0.5 GPM
(RECTANGLE) COUNTERTOP, MANUAL FAUCET, ADA USABLE	0.5"	0.5"	1.25"	0.5 GPM
LL TYPE, HANDICAPPED	-	0.75"	2"	0.125 GPF
ITERTOP (ONE COMPARTMENT), ADA USABLE	0.5"	0.5"	1.5"	1.5 GPM
BOX	-	0.5"	-	-

MOSTATIC MIXING VALVES ON ALL PUBLIC LAVATORIES. SET TEMP 109F.

	DRAIN SCHEDULE										
PE E 1)	DRAIN INFORMATION	GENERAL LOCATION	NOTES								
	SQUARE DRAIN	TOILETS									

FLOOR

NOTES: 1. VALVES AND ACCESSORIES SHALL BE LINE SIZE.

2 HOT WATER CIRC. FLOW BALANCING ASSEMBLY

FLUSH VALVE TRAP PRIMERS

PROJECT #

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KEYNOTES: AO PLUMBING FIXTURES A STING PLUMBING FIXTUR	AND ASSOCIATED ACCE	ESSORIES AND PI	PING IN THIS AF	REA.		SRADY HOSPITAL	FLOOR RESIDENT'S	HILL JR. DR., ATLANTA, GA, 30303
								00 COMMERCE DRIVE, NW JATTA, GEORGIA 30318 JATTA, GEORGIA 30318 04 605 0090 04 605 0090 M.Sizemoregroup.com 011 SizEMORE GROUP
DTES: E 4" SOIL STACK IN CHASE						THIS DRAW SERVICE PROPERT PART OF T REPRODU ANY FOR MECHANIC WITHOUT PERMISS PL 16T V	ING IS AN INS AND SHALL F Y OF THE AR HIS DOCUME OF THE AR HIS DOCUME ALLY, FOR AL THE EXPRES ALLY, FOR AL THE EXPRES AND OF THE A UMB H FL VAST PLAN	STRUMENT OF REMAIN THE CHITECT. NO INT SHALL BE NSMITTED IN NICALLY OR NY PURPOSE, SS WRITTEN ARCHITECT.
4" SOIL STACK ON THE F	FLR BEL.			95% CD	REVIEW SET	PROJECT DATE DRAWN I CHECKE P SCALE	т# вү ову 1 (1/8"	18N272 9/13/2021 ACA JCJ

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	No.
	GRADY HOSPITAL 16TH FLOOR RESIDENT'S RESOURCE ROOM 80 JESSE HILL JR. DR., ATLANTA, GA, 30303
	Anone Group Hote State S
95% CD REVIEW SET	PROJECT # 18N272 DATE 9/13/2021 DRAWN BY ACA CHECKED BY JCJ PD201 SCALE 1/8" = 1'-0"

P301 1/4" = 1'-0"

UNISEX RR 11 - ENLARGE WASTE PLAN 6 P301 1/4" = 1'-0"

WOMEN'S RR 13 - ENLARGE WASTE PLAN 4 P301 1/4" = 1'-0"

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