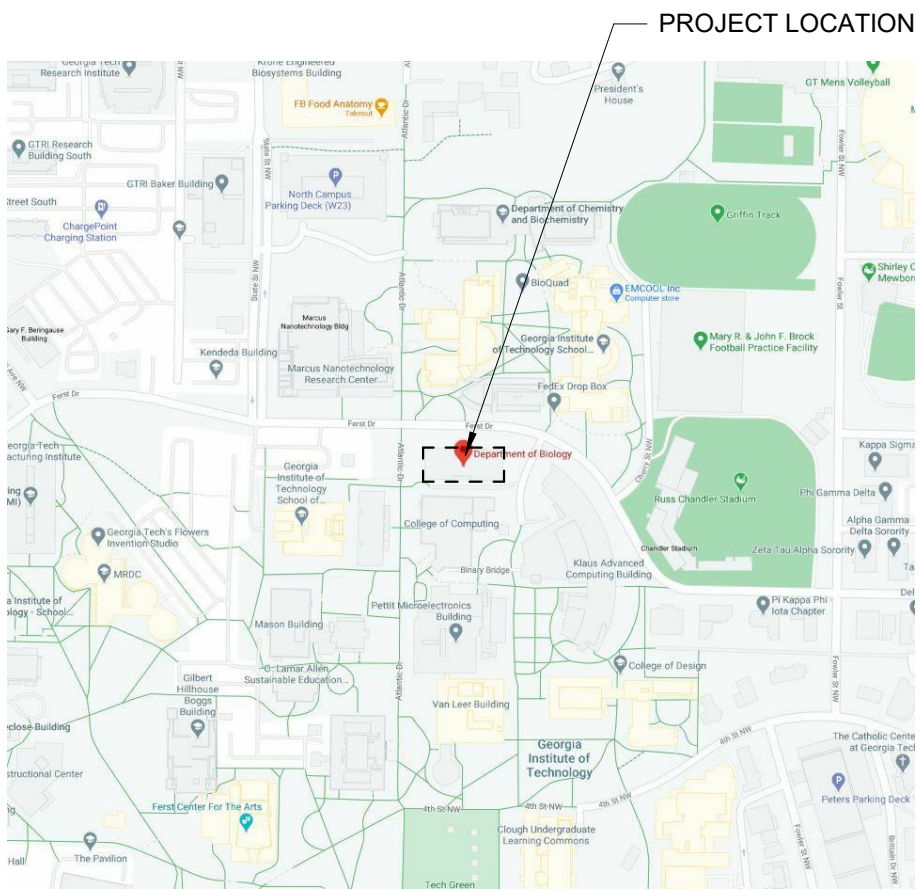


VICINITY MAP



PROJECT CONTACTS

OWNER:
GEORGIA INSTITUTE OF TECHNOLOGY
CONTACT: NGUGI MATHU
PHONE: 470.428.0160
EMAIL: ngugi.mathu@facilities.gatech.edu

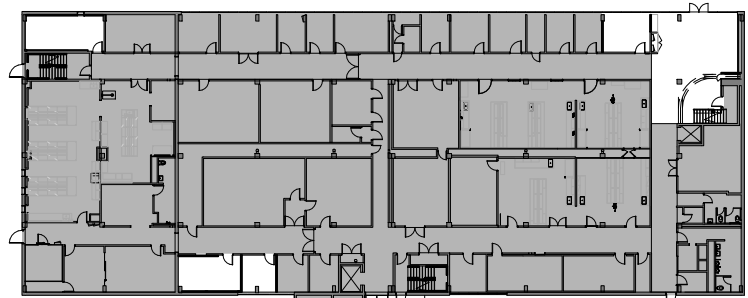
ARCHITECT:
MAY ARCHITECTURE + INTERIORS
CONTACT: SHELLY ATTILA
PHONE: 404.614.0700
EMAIL: shelly.attila@mayarchitecture.com

STRUCTURAL ENGINEER:
SHEAR STRUCTURAL
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MECHANICAL, ELECTRICAL, PLUMBING ENGINEER:
NEWCOMB & BOYD
CONTACT: TODD MOWINSKI
PHONE: 404.730.8485
EMAIL: TMowinski@newcomb-boyd.com

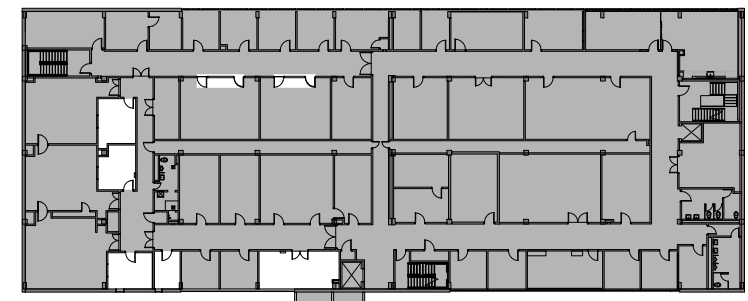
GENERAL CONTRACTOR:
WINTER CONSTRUCTION
CONTACT: ANASTASIA DIAVOLITSIS
PHONE: 404.416.6274
EMAIL: adiavolitsis@winter-construction.com

KEY PLAN - LEVEL 1, 2, & 3



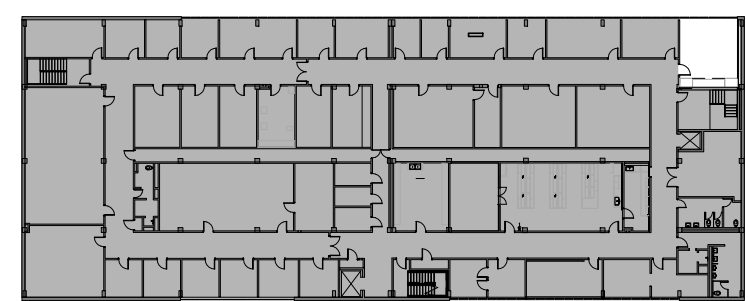
LOBBY
A102
A128
C120
C124

1 LEVEL ONE KEY PLAN
SCALE: 1" = 60'-0"



218A
218D
218E
221
227

2 LEVEL TWO KEY PLAN
SCALE: 1" = 60'-0"



301A

3 LEVEL THREE KEY PLAN
SCALE: 1" = 60'-0"

SCOPE OF WORK
NOT IN SCOPE

ISSUED NOT FOR CONSTRUCTION
ISSUED STAMPED FOR CONSTRUCTION
NOT ISSUED

DRAWING INDEX

SHEET NUMBER	SHEET NAME	04.14.21 SCHEMATIC DESIGN	04.16.21 SCHEMATIC DESIGN REVISION	07.14.21 ISSUED FOR CONSTRUCTION
G.000	COVER SHEET			
G.010	GENERAL NOTES & FINISHES			
G.101	LIFE SAFETY PLAN			

S.001	STRUCTURAL GENERAL NOTES, 2ND FLOOR PARTIAL FLOOR PLAN, & DETAILS			
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A.000	ALTERNATES			
A.001	LEVELS 1, 2 & 3 REFERENCE PLANS			
A.021	LEVELS 1, 2 & 3 DEMOLITION PLANS			
A.101	LEVELS 1, 2 & 3 FLOOR PLANS			
A.501	LEVELS 1, 2 & 3 REFLECTED CEILING PLAN			
A.601	INTERIOR ELEVATIONS & MILLWORK DETAILS			
A.660	3-D INTERIOR MODEL IMAGES			
A.800	WALL TYPES & FINISH DETAILS			
A.820	DOOR SCHEDULE & DETAILS			

M.000	HVAC LEGEND			
M.001	HVAC SPECIFICATIONS			
M.002	HVAC SPECIFICATIONS			
M.003	HVAC SPECIFICATIONS			
M.010	MECHANICAL - ALTERNATES			
M.021	MECHANICAL - LEVELS 1, 2 & 3 DEMOLITION PLANS			
M.101	MECHANICAL - LEVELS 1, 2 & 3 FLOOR PLANS			
M.201	HVAC CONTROLS			

E.000	ELECTRICAL LEGEND			
E.001	ELECTRICAL SPECIFICATIONS			
E.002	ELECTRICAL SCHEDULES			
E.010	ELECTRICAL - ALTERNATES			
E.021	ELECTRICAL - LEVELS 1, 2 & 3 DEMOLITION PLANS			
E.101	ELECTRICAL - LEVELS 1, 2 & 3 FLOOR PLANS			
E.201	ELECTRICAL DETAILS			
E.301	LOW VOLTAGE - LEVELS 1, 2 & 3 DEMOLITION PLANS			
E.302	LOW VOLTAGE - LEVELS 1, 2 & 3 FLOOR PLANS			
E.303	AUDIO VISUAL - FLOOR PLANS			
E.304	AUDIO VISUAL - DETAILS			

AV1	FLOOR PLAN LOBBY			
AV2	LINE DIAGRAM			
AV3	DETAILS			
C-1	AREA OF WORK DEMO PLANS			
C-2	AREA OF WORK NEW WORK PLANS			

DRAWING SHEET ORGANIZATION LEGEND

DRAWING NUMBER	SHEET TYPE DESCRIPTION
SERIES	

G.000'S	COVER SHEET AND DRAWING INDEX
G.010'S	GENERAL NOTES AND PROJECT INFORMATION
G.100'S	LIFE SAFETY PLANS
G.200'S	PHASING PLANS & NOTES

_.000'S	GENERAL DISCIPLINE NOTES & LEGENDS
_.020'S	EXISTING CONDITION / DEMOLITION PLANS
_.040'S	SITE PLANS
_.060'S	OVERALL PLANS
_.100'S	FLOOR PLANS
_.200'S	ENLARGED PARTIAL FLOOR PLANS
_.300'S	EXTERIOR CONDITIONS / ENVELOPE - EXTERIOR WALL SECTIONS, PLAN, & SECTION DETAILS
_.400'S	VERTICAL CIRCULATION - STAIRS, ELEVATORS, & ESCALATORS
_.500'S	REFLECTED CEILING PLANS
_.520'S	ENLARGED REFLECTED CEILING PLANS
_.540'S	CEILING DETAILS AND TRANSITIONS
_.600'S	INTERIOR BUILD OUT - INTERIOR ELEVATIONS, CASEWORK DETAILS
_.700'S	FINISHES, FURNISHINGS, & EQUIPMENT FLOOR PLANS
_.800'S	SCHEDULES & DETAILS
_.900'S	ADDITIONAL DESIGN ITEMS - CANOPIES, OUT-BUILDINGS, PYLON SIGNS

Georgia Institute of Technology

GEORGIA INSTITUTE OF TECHNOLOGY
CHERRY EMERSON GRAD. OFFICE &
LOBBY RENOVATION
ISSUED FOR CONSTRUCTION

JULY 14, 2021

THE PROJECT CONSISTS OF THE RENOVATION OF THE APPROXIMATELY 795 SF MAIN LOBBY OF THE EXISTING CHERRY EMERSON BUILDING ON THE FIRST FLOOR. THE EXISTING BUILDING HOUSES LABORATORY AND ADMINISTRATIVE SPACES. IN ADDITION TO THE RENOVATION OF THE MAIN LOBBY, MINOR RECONFIGURATIONS AND FINISH UPGRADES TO TEN OFFICES LOCATED THROUGHOUT LEVELS 1, 2 AND 3 IS INCLUDED, AS WELL AS TWO GLASS STOREFRONT WALLS ON LEVEL 2.

CURRENT APPLICABLE CODES

LIFE SAFETY CODE NFPA 101

LIFE SAFETY CODE 2018 EDITION
WITH 2020 GEORGIA STATE FIRE MARSHAL AMENDMENTS

GEORGIA STATE MINIMUM STANDARD BUILDING CODE

INTERNATIONAL BUILDING CODE, 2018 EDITION,
WITH GEORGIA AMENDMENTS (2020)

GEORGIA STATE MINIMUM STANDARD FIRE CODE

INTERNATIONAL FIRE CODE, 2018 EDITION,

GEORGIA STATE MINIMUM STANDARD PLUMBING CODE

INTERNATIONAL PLUMBING CODE, 2018 EDITION,
WITH GEORGIA AMENDMENTS (2020)

GEORGIA STATE MINIMUM STANDARD MECHANICAL CODE

INTERNATIONAL MECHANICAL CODE, 2018 EDITION,
WITH GEORGIA AMENDMENTS (2020)

GEORGIA STATE MINIMUM STANDARD GAS CODE

INTERNATIONAL FUEL GAS CODE, 2018 EDITION,
WITH GEORGIA AMENDMENTS (2020)

GEORGIA STATE MINIMUM STANDARD ELECTRICAL CODE

NATIONAL ELECTRICAL CODE, 2020 EDITION

GEORGIA STATE MINIMUM STANDARD ENERGY CODE

INTERNATIONAL ENERGY CONSERVATION CODE, 2015 EDITION,
WITH GEORGIA SUPPLEMENTS AND AMENDMENTS (2020)

AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 2010

GEORGIA ACCESSIBILITY CODE, 2010 EDITION

GEORGIA STATE MINIMUM FIRE SAFETY STANDARDS 12-3-3 EFFECTIVE 01-01-20

RULES OF THE STATE OF GEORGIA DEPARTMENT OF HUMAN RESOURCES
PUBLIC HEALTH, CHAPTER 290-5-14, FOOD SERVICE

OCCUPANCY CLASSIFICATION

PRIMARY - LIFE SAFETY CODE NFPA 101

EXISTING BUSINESS OCCUPANCY

SUPPLEMENTAL - INTERNATIONAL BUILDING CODE

BUSINESS GROUP B OCCUPANCY

INTERIOR FINISH LIMITATIONS

ALL FINISHES USED ON THE PROJECT SHALL MEET THE FOLLOWING REQUIREMENTS
PER NFPA 101: 10.2 AND 38.3.3:

LIFE SAFETY CODE NFPA 101 CHAPTER 10

EXITS AND ACCESS TO EXITS

CLASS A OR B WALL AND CEILING FINISH
CLASS I OR II FLOOR FINISH

OTHER SPACES

CLASS A, B OR C WALL AND CEILING FINISH

CONSTRUCTION TYPE

PRIMARY - INTERNATIONAL BUILDING CODE

TYPE IIB - NON-COMBUSTIBLE, SPRINKLERED

SUPPLEMENTAL - LIFE SAFETY CODE NFPA 101

TYPE II (000), NON-COMBUSTIBLE, SPRINKLERED

***BUILDING WILL BE SPRINKLED IN
SEPARATE PROJECT
SIMULTANEOUSLY DURING THE
RENOVATION OF THIS PROJECT.
PROJECT NAME: CHERRY EMERSON
SCHOOL OF BIOLOGICAL SCIENCES

OCCUPANT LOADS - FIRST FLOOR

OCCUPANCY USE GROUP	NAME	AREA(SQ FT)	AREA PER OCCUPANT	CALC. OCCUPANCY	ACTUAL OCCUPANTS	HIGHEST OCCUPANTS
A15	LOUNGE IN LOBBY A001	170	15	12	12	12
B150	OFFICES & LABS - N.I.C.	17362	150	116	120	120
B50	SHARED OFFICE 128	282	50	6	8	8
B50	SHARED OFFICE A102	172	50	4	4	4
B50	SHARED OFFICES C120 & C124	353	50	8	9	9
S500	MECHANICAL B001 & CLOSET A002 - N.I.C.	442	500	1	1	1
S500	MECHANICAL CORR. - N.I.C.	553	500	2	2	2
TOTAL FIRST FLOOR		19334		149	156	156

OCCUPANT LOADS - SECOND FLOOR

OCCUPANCY USE GROUP	NAME	AREA(SQ FT)	AREA PER OCCUPANT	CALC. OCCUPANCY	ACTUAL OCCUPANTS	HIGHEST OCCUPANTS
A15	INTERACTION 201A & CONF. 201B - N.I.C.	723	15	49	29	49
B150	OFFICES & LABS - N.I.C.	16817	150	113	113	113
B50	SHARED OFFICE 227	290	50	6	5	6
B50	SHARED OFFICES 218A & 221	259	50	6	6	6
B50	SHARED OFFICES 218D & 218E	335	50	7	8	8
S500	MECHANICAL B001 & CLOSET A002 - N.I.C.	348	500	1	1	1
S500	MECHANICAL CORR. - N.I.C.	656	500	2	2	2
TOTAL SECOND FLOOR		19428		184	164	185

OCCUPANT LOADS - THIRD FLOOR

OCCUPANCY USE GROUP	NAME	AREA(SQ FT)	AREA PER OCCUPANT	CALC. OCCUPANCY	ACTUAL OCCUPANTS	HIGHEST OCCUPANTS
A15	CLASSROOM 320 & 322	1632		0	0	0
A15	CONF. 301A	409	15	28	16	28
B150	OFFICES & LABS - N.I.C.	16388	150	110	123	123
S500	MECHANICAL 336 - N.I.C.	352	500	1	1	1
S500	MECHANICAL CORR. - N.I.C.	683	500	2	2	2
TOTAL THIRD FLOOR		19465		141	142	154

EGRESS CAPACITY AND COMPONENTS - BUILDING

EGRESS COMPONENT	MIN. / MAX. REQUIRED	CODE REF.	ACTUAL
STAIRWAYS (MIN.)	44"	NFPA 7.2.2.2.1.1 OR 7.2.2.2.1.2	44"
NUMBER OF EXITS (MIN.)	3	NFPA 7.14.5	3 / 5
EXIT SEPARATION (MIN.)	80"	NFPA 7.1.3.2.1, 7.5.8.2	183'-3" / 218'-7"
COMMON PATH (MAX.)	100	NFPA TABLE A.7.6	38'
TRAVEL DISTANCE (MAX.)	300'	NFPA TABLE A.7.6	158'
COORIDOR WIDTH (MIN.)	44"	NFPA 7.3.4	59"
DEAD END CORRIDOR (MAX.)	50'	NFPA TABLE A.7.6	12'

PLUMBING FIXTURE COUNT - BUILDING

PLUMBING FIXTURES	PROVIDED
WATER CLOSETS	21
LAVATORIES	14
DRINKING FOUNTAINS	6
SERVICE SINKS	3

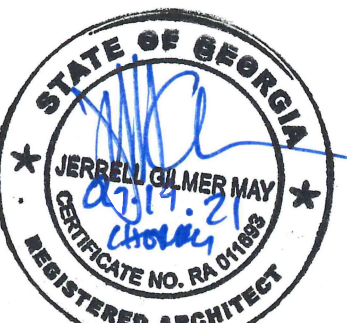
MAY
ARCHITECTURE

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COLONY SQUARE BUILDING 100
ATLANTA, GEORGIA 30361 | 404-614-0700
WWW.MAYARCHITECTURE.COM

CONSULTANTS

NEWCOMB & BOYD
MECHANICAL, ELECTRICAL, & PLUMBING
ENGINEERING

SHEAR STRUCTURAL
STRUCTURAL ENGINEERING



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Georgia Institute of Technology

CHERRY EMERSON GRAD.
OFFICE & LOBBY
RENOVATION

CHERRY EMERSON BUILDING
310 FERST DRIVE
ATLANTA, GA 30332

OWNER PROJECT NO.
0255-2021
PROJECT NO. 2021029

ISSUE DATE 07.14.21
ISSUED FOR CONSTRUCTION

REVISIONS DATE

COVER SHEET

SCALE As indicated

G.000

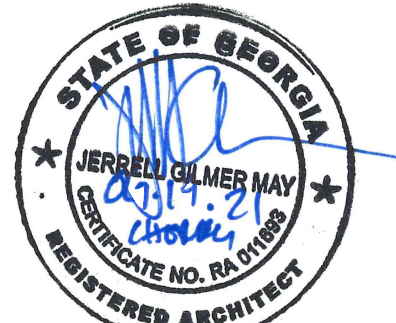
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CHERRY EMERSON GRAD. OFFICE & LOBBY RENOVATION

CHERRY EMERSON BUILDING
310 FERST DRIVE
ATLANTA, GA 30332

OWNER PROJECT NO.

0255-2021

PROJECT NO. 2021029

ISSUE DATE 07.14.21

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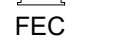
REVISIONS

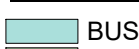

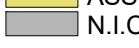

GENERAL NOTES & FINISHES

SCALE As indicated

G.010

7/15/2021 9:43:09 AM

LIFE SAFETY PLAN LEGEND	
FIRE AND SMOKE PROTECTIVE BARRIERS AND PARTITIONS	
1 HOUR BARRIERS	
	1 HOUR FIRE RATED.
2 HOUR BARRIERS	
	2 HOUR FIRE RATED.
SMOKE COMPARTMENTS	
	SMOKE COMPARTMENT BARRIER EXTENT
FIRE AND SMOKE PROTECTIVE HARDWARE DEVICES	
	EXIT LIGHT
	FIRE EXTINGUISHER CABINET

OCCUPANCY LEGEND	
	BUSINESS
	CONCENTRATED BUSINESS
	ASSEMBLY
	N.I.C. - BUSINESS, ASSEMBLY, STORAGE

OCCUPANT LOADS - FIRST FLOOR

OCCUPANCY USE GROUP	NAME	AREA(SQ FT)	AREA PER OCCUPANT	CALC. OCCUPANCY	ACTUAL OCCUPANTS	HIGHEST OCCUPANTS
A15	LOUNGE IN LOBBY A001	170	15	12	12	12
B150	OFFICES & LABS - N.I.C.	17362	150	116	120	120
B50	SHARED OFFICE 128	282	50	6	8	8
B50	SHARED OFFICE A102	172	50	4	4	4
B50	SHARED OFFICES C120 & C124	353	50	8	9	9
S500	MECHANICAL B001 & CLOSET A002 - N.I.C.	442	500	1	1	1
S500	MECHANICAL CORR. - N.I.C.	553	500	2	2	2
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OCCUPANT LOADS - SECOND FLOOR

OCCUPANCY USE GROUP	NAME	AREA(SQ FT)	AREA PER OCCUPANT	CALC. OCCUPANCY	ACTUAL OCCUPANTS	HIGHEST OCCUPANTS
A15	INTERACTION 201A & CONF. 201B - N.I.C.	723	15	49	29	49
B150	OFFICES & LABS - N.I.C.	16817	150	113	113	113
B50	SHARED OFFICE 227	290	50	6	5	6
B50	SHARED OFFICES 218A & 221	259	50	6	6	6
B50	SHARED OFFICES 218D & 218E	335	50	7	8	8
S500	MECHANICAL B001 & CLOSET A002 - N.I.C.	348	500	1	1	1
S500	MECHANICAL CORR. - N.I.C.	656	500	2	2	2
TOTAL SECOND FLOOR		19428		184	164	185

OCCUPANT LOADS - THIRD FLOOR

OCCUPANCY USE GROUP	NAME	AREA(SQ FT)	AREA PER OCCUPANT	CALC. OCCUPANCY	ACTUAL OCCUPANTS	HIGHEST OCCUPANTS
A15	CLASSROOM 320 & 322	1632		0	0	0
A15	CONF. 301A	409	15	28	16	28
B150	OFFICES & LABS - N.I.C.	16388	150	110	123	123
S500	MECHANICAL 336 - N.I.C.	352	500	1	1	1
S500	MECHANICAL CORR. - N.I.C.	683	500	2	2	2
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EGRESS COMPONENT	MIN. / MAX. REQUIRED	CODE REF.	ACTUAL
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COMMON PATH (MAX.)	100	NFPA TABLE A.7.6	38'
TRAVEL DISTANCE (MAX.)	300'	NFPA TABLE A.7.6	158'
CORRIDOR WIDTH (MIN.)	44"	NFPA 7.3.4	59'
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PLUMBING FIXTURE COUNT - BUILDING

PLUMBING FIXTURES	PROVIDED
WATER CLOSETS	21
LAVATORIES	14
DRINKING FOUNTAINS	6
SERVICE SINKS	3

LIFE SAFETY PLAN GENERAL NOTES

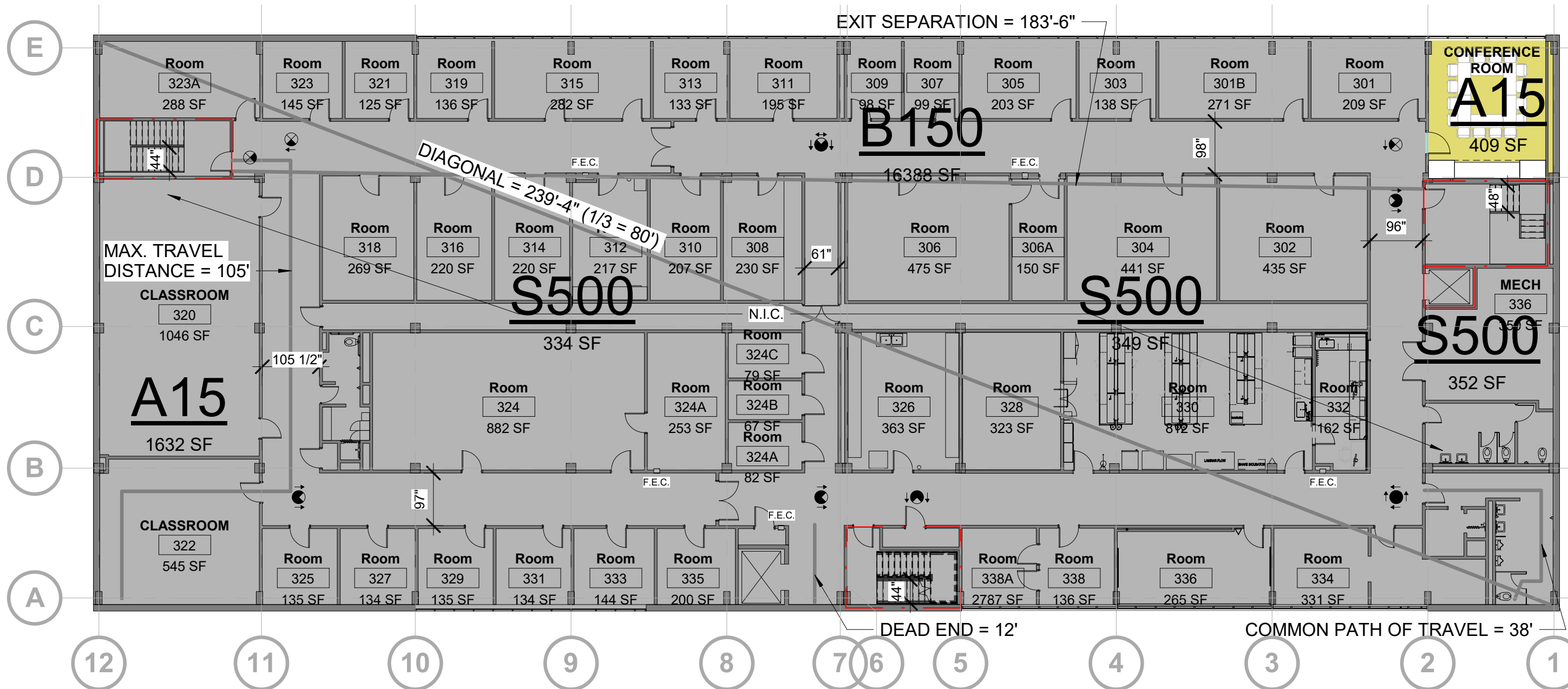
1. ALL FIRE AND/OR SMOKE BARRIERS OR WALLS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING ABOVE A FINISH CEILING AND/OR IN CONCEALED SPACES WITH LETTERS ACCORDING TO ALL APPLICABLE CODES.
2. RATED WALLS SHOWN ARE ASSUMPTIONS BASED ON ORIGINAL CONSTRUCTION DRAWINGS AND EXISTING CONDITIONS.



1 LEVEL 1 LIFE SAFETY PLAN
SCALE: 1/16" = 1'-0"



2 LEVEL 2 LIFE SAFETY PLAN
SCALE: 1/16" = 1'-0"



3 LEVEL 3 LIFE SAFETY PLAN
SCALE: 1/16" = 1'-0"



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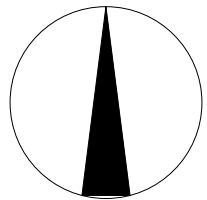


CHERRY
EMERSON GRAD.
OFFICE & LOBBY
RENOVATION

CHERRY EMERSON BUILDING
310 FERST DRIVE
ATLANTA, GA 30332

OWNER PROJECT NO.
0255-2021
PROJECT NO. 2021029

TRUE NORTH



ISSUE DATE 07.14.21
ISSUED FOR CONSTRUCTION

REVISIONS DATE

LIFE SAFETY PLAN

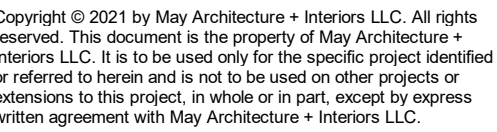
SCALE As indicated

G.101

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878.664.8051
SHEARSTRUCTURAL.COM



CHERRY EMERSON BUILDING
310 FERST DRIVE
ATLANTA, GA 30332

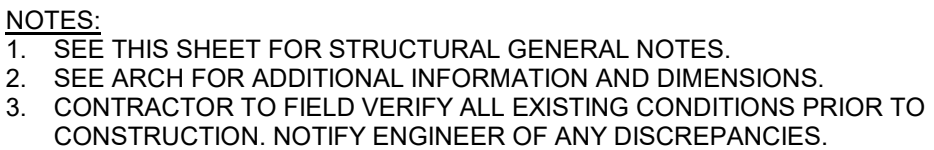
OWNER PROJECT NO.
0255-2021
PROJECT NO. 2021029

SSUE DATE 07.14.21
SSUED FOR CONSTRUCTION

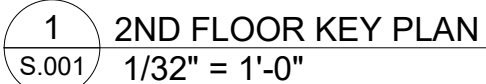
REVISIONS	DATE
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SCALE As indicated

S.001



2ND FLOOR 212 & 214/216 PARTIAL FLOOR PLAN
1/4" = 1'-0"





- DEDUCTIVE ALTERNATES**
- REMOVE PROPOSED POWER AND DATA INFRASTRUCTURE FOR FUTURE MONITORS.
- LEVEL ONE = 4
- LEVEL TWO = 6
- LEVEL THREE = 6
 - REMOVE CMU WALLS:
- OPTION 1: PROVIDE LINTEL SUPPORT CMU OPENING. REFER TO S.001.
- OPTION 2: TO DECK AND PROVIDE GYPSUM HEADER.

1 LEVEL ONE FLOOR PLAN - ADD/ALT
SCALE: 1/16" = 1'-0"

2 LEVEL TWO FLOOR PLAN - ADD/ALT
SCALE: 1/16" = 1'-0"

3 LEVEL THREE FLOOR PLAN - ADD/ALT
SCALE: 1/16" = 1'-0"



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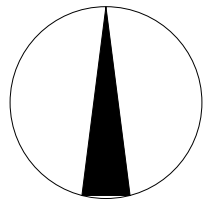


CHERRY EMERSON GRAD. OFFICE & LOBBY RENOVATION

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TRUE NORTH



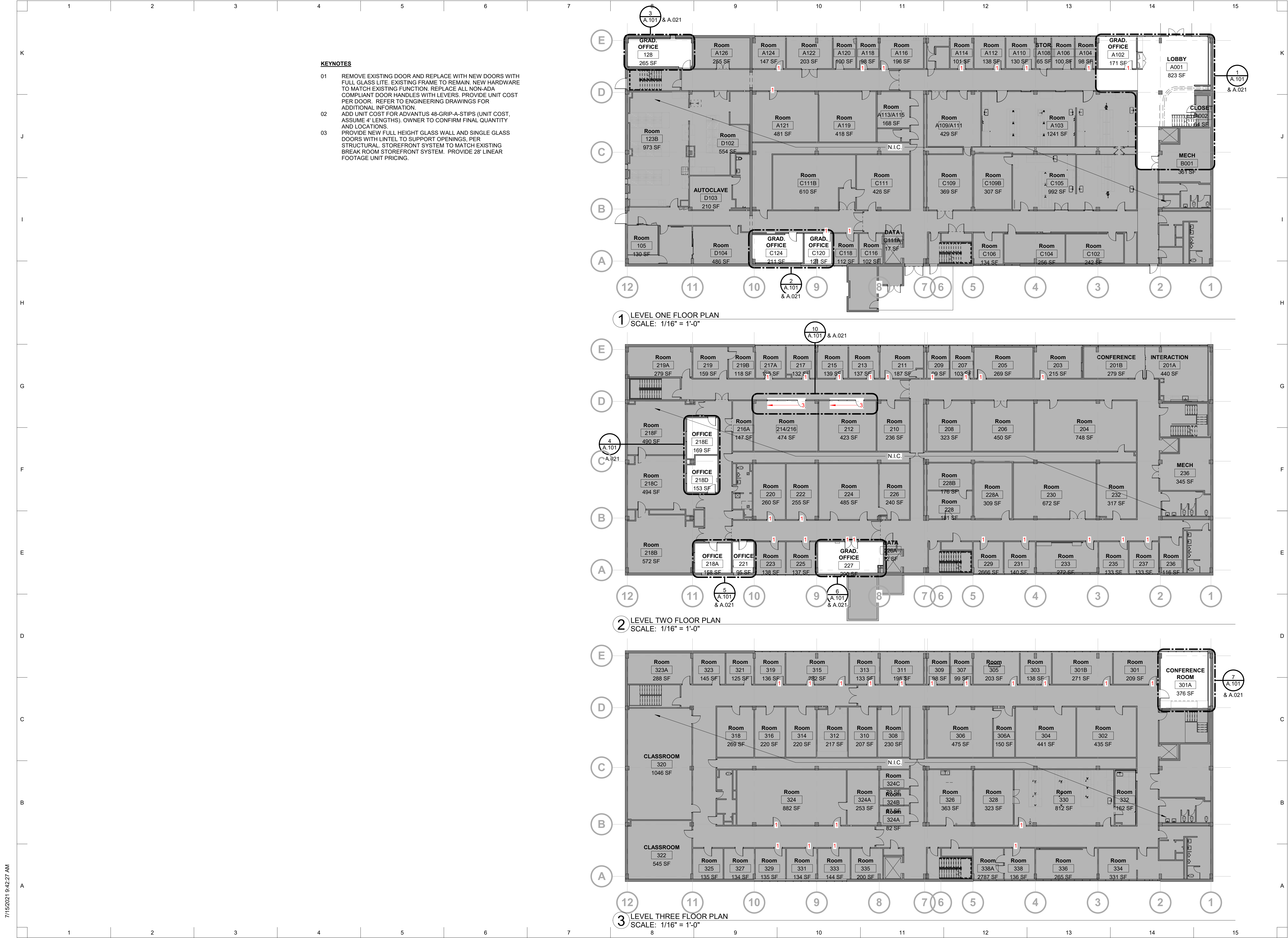
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REVISIONS DATE

ALTERNATES

SCALE 1/16" = 1'-0"

A.000



1175 PEACHTREE STREET NE, SUITE 1800
COLONY SQUARE BUILDING 100
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CONSULTANTS

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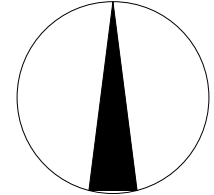


CHERRY EMERSON GRAD. OFFICE & LOBBY RENOVATION

CHERRY EMERSON BUILDING
310 FERST DRIVE
ATLANTA, GA 30332

OWNER PROJECT NO.
0255-2021
PROJECT NO. 2021029

TRUE NORTH



ISSUE DATE 07.14.21
ISSUED FOR CONSTRUCTION

REVISIONS DATE

LEVELS 1, 2 & 3
REFERENCE PLANS

SCALE 1/16" = 1'-0"

A.001



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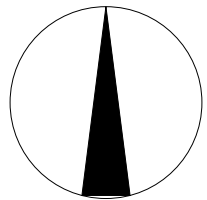


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LEVELS 1, 2 & 3
DEMOLITION PLANS

SCALE 1/4" = 1'-0"

A.021



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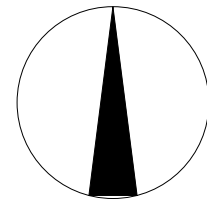


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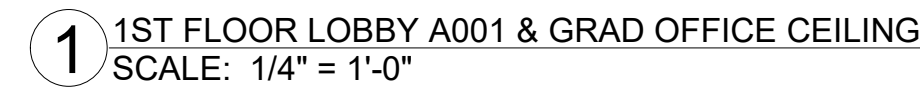
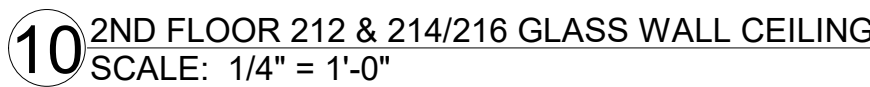
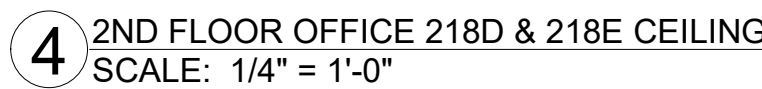
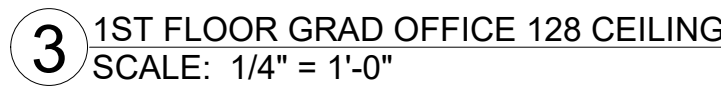
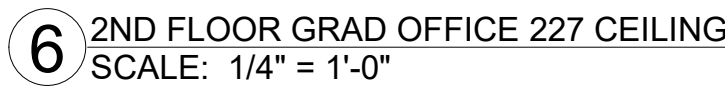
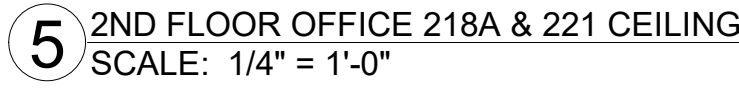
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REVISIONS DATE

LEVELS 1, 2 & 3
FLOOR PLANS

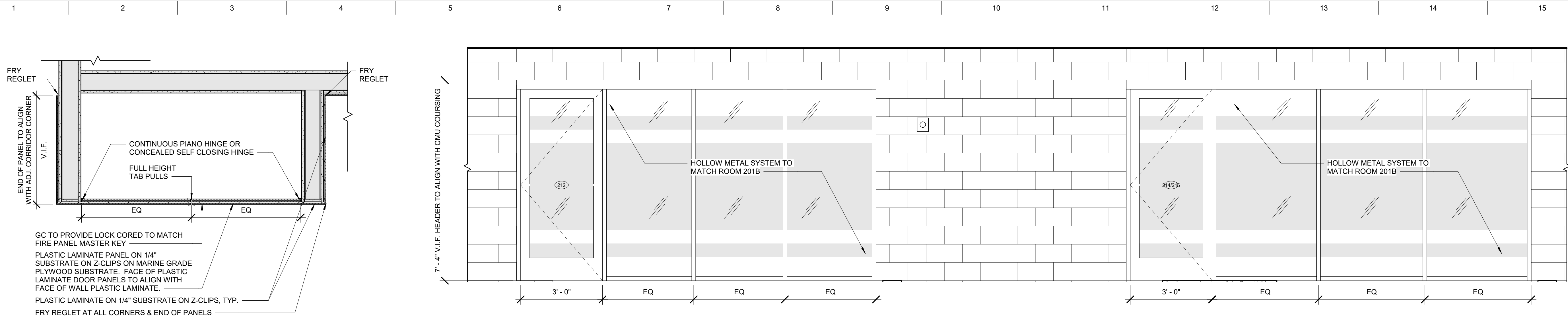
SCALE 1/4" = 1'-0"

A.101



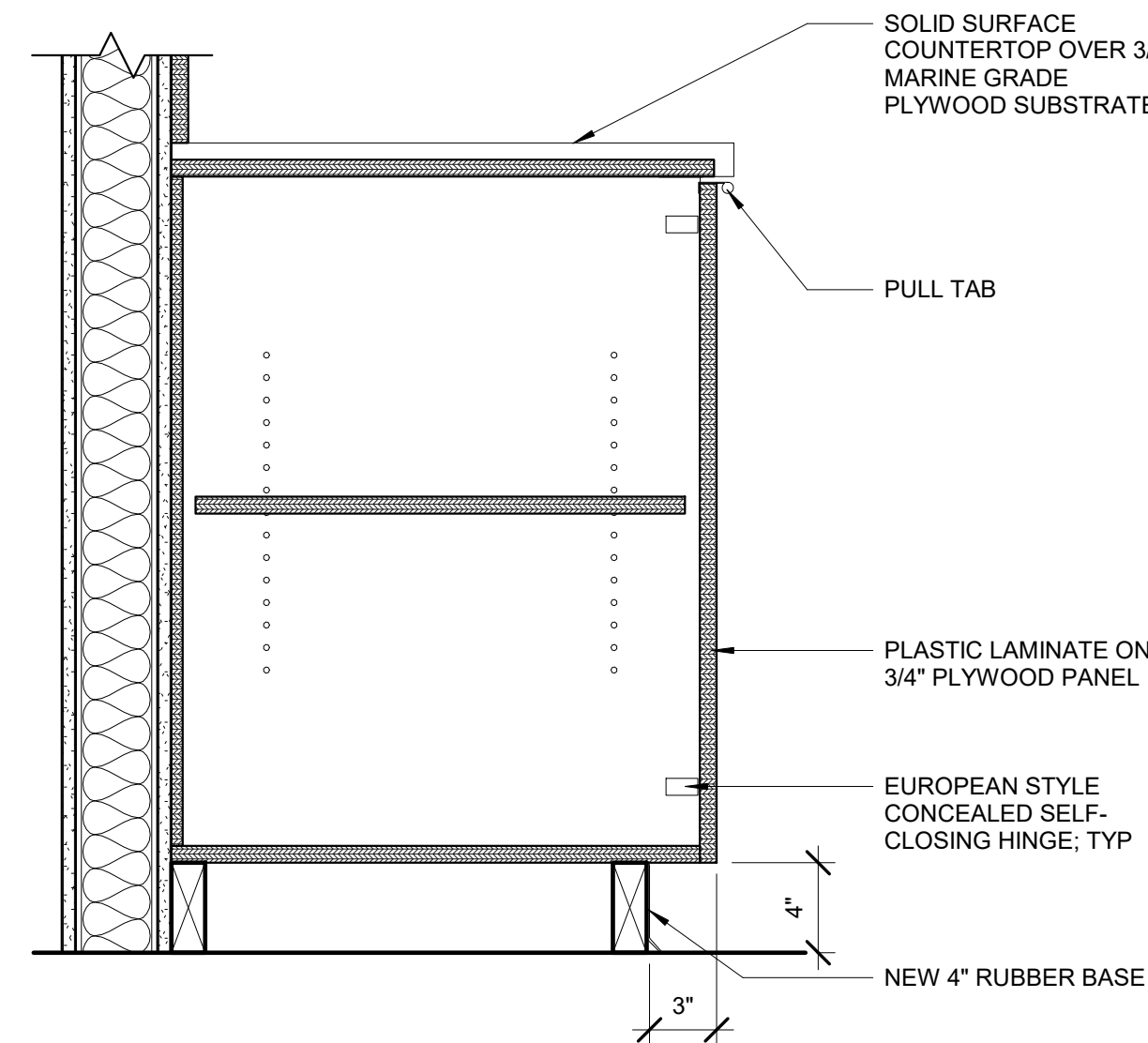
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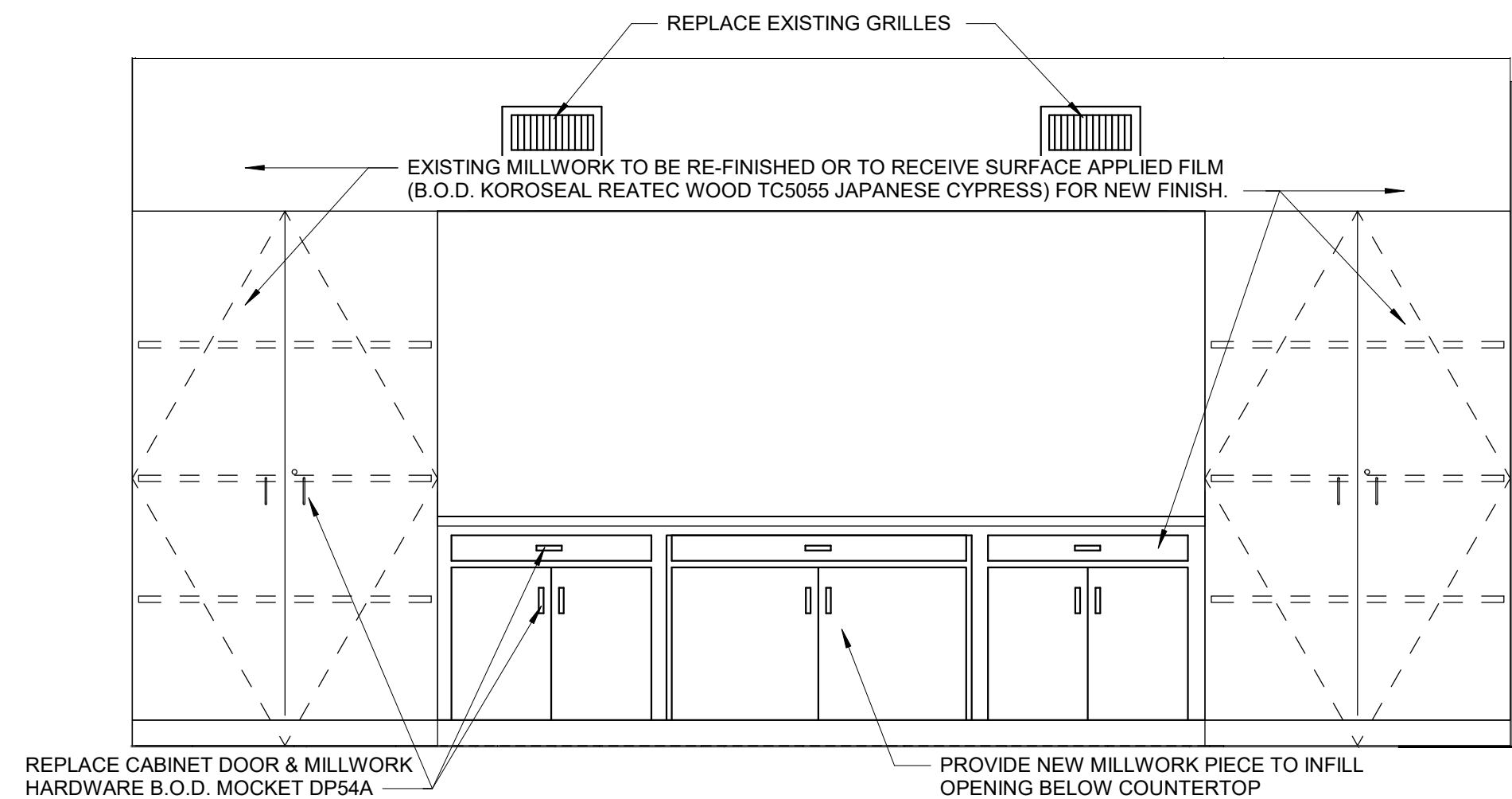


6 MILLWORK DOOR DETAIL
SCALE: 1" = 1'-0"

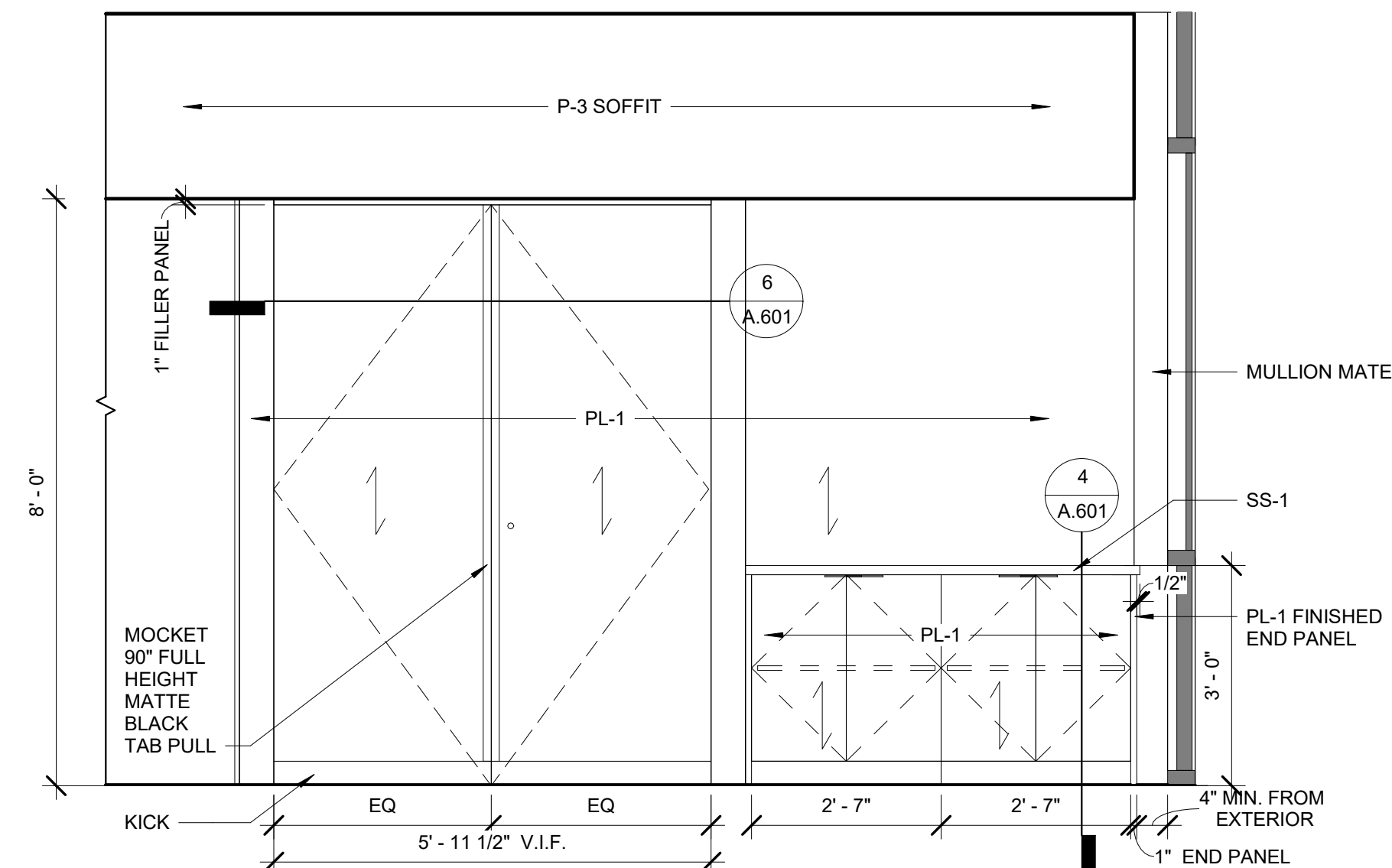
1 ELEVATION AT NEW STOREFRONT WALLS
SCALE: 1/2" = 1'-0"



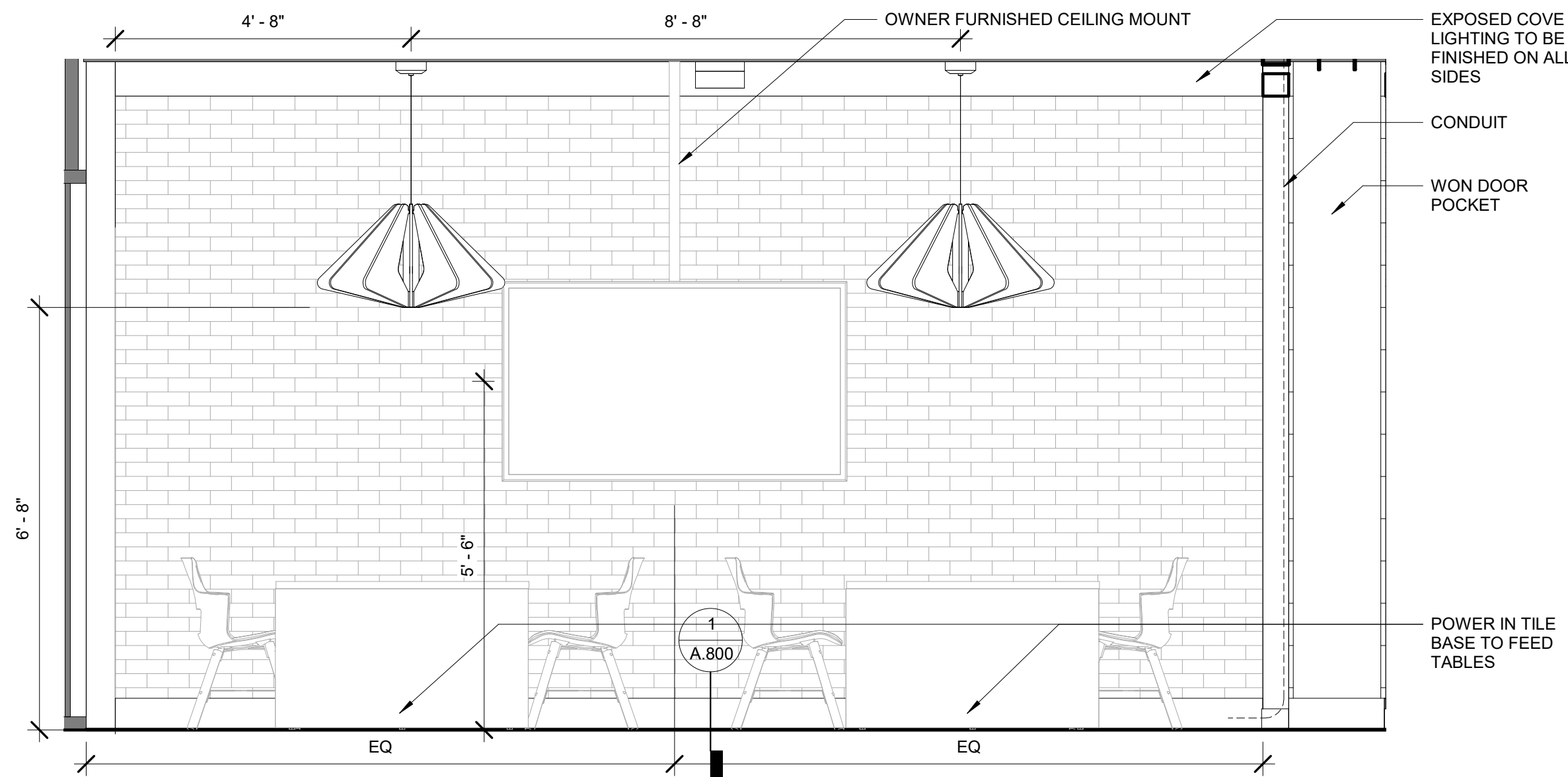
4 MILLWORK LOWER CABINET
SCALE: 1 1/2" = 1'-0"



5 ELEVATION AT CONFERENCE ROOM 301A MILLWORK
SCALE: 1/2" = 1'-0"



2 ELEVATION AT LOBBY FIRE PANEL DOORS
SCALE: 1/2" = 1'-0"



3 ELEVATION AT LOBBY MONITOR WALL
SCALE: 1/2" = 1'-0"

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Georgia Institute
of Technology

CHERRY
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OFFICE & LOBBY
RENOVATION

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0255-2021
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REVISIONS DATE

INTERIOR
ELEVATIONS &
MILLWORK DETAILS

SCALE As indicated

A.601



1 LOBBY RENDERING
SCALE:



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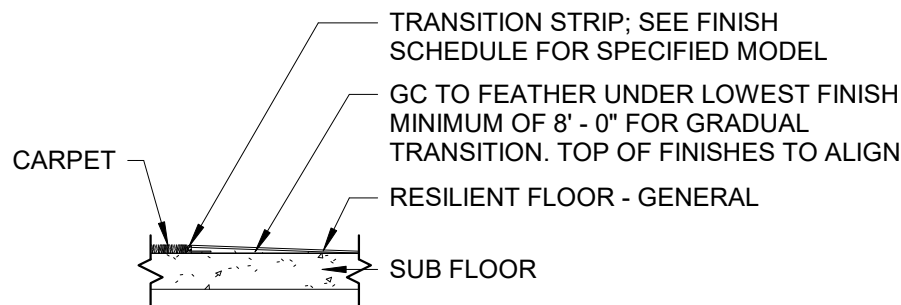
REVISIONS DATE

3-D INTERIOR MODEL
IMAGES

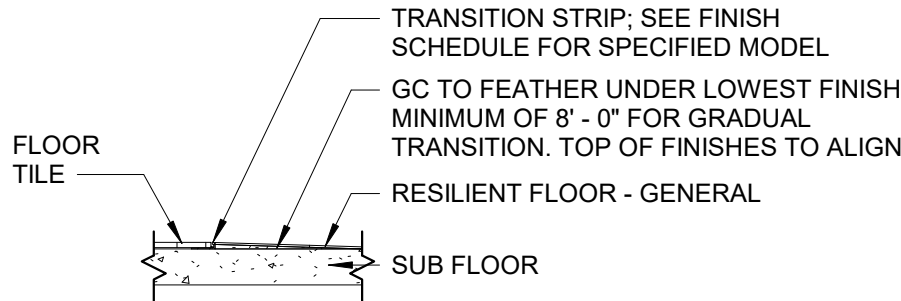
SCALE

A.660

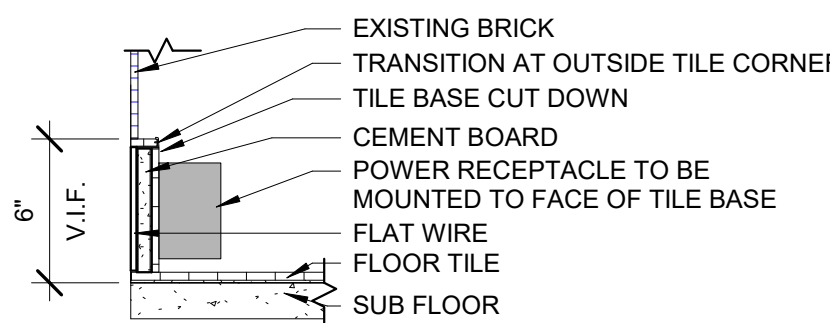
FINISH TRANSITION DETAILS
ALL FINISHES TO BE IN COMPLIANCE WITH NFPA 101: 10.2 AND 38.3.3



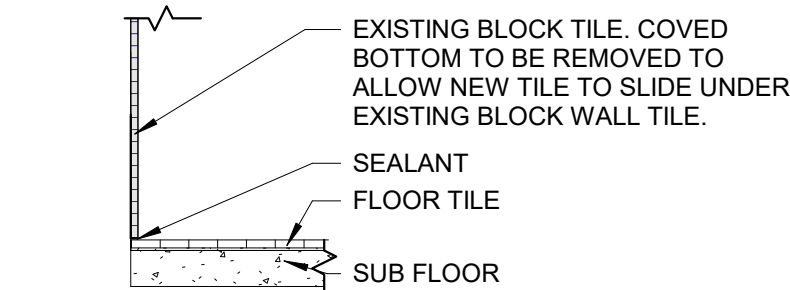
TRANSITION AT CARPET TO RESILIENT FLOORING



TRANSITION AT TILE TO RESILIENT FLOORING



TRANSITION AT WALL TILE BASE TO FLOOR TILE

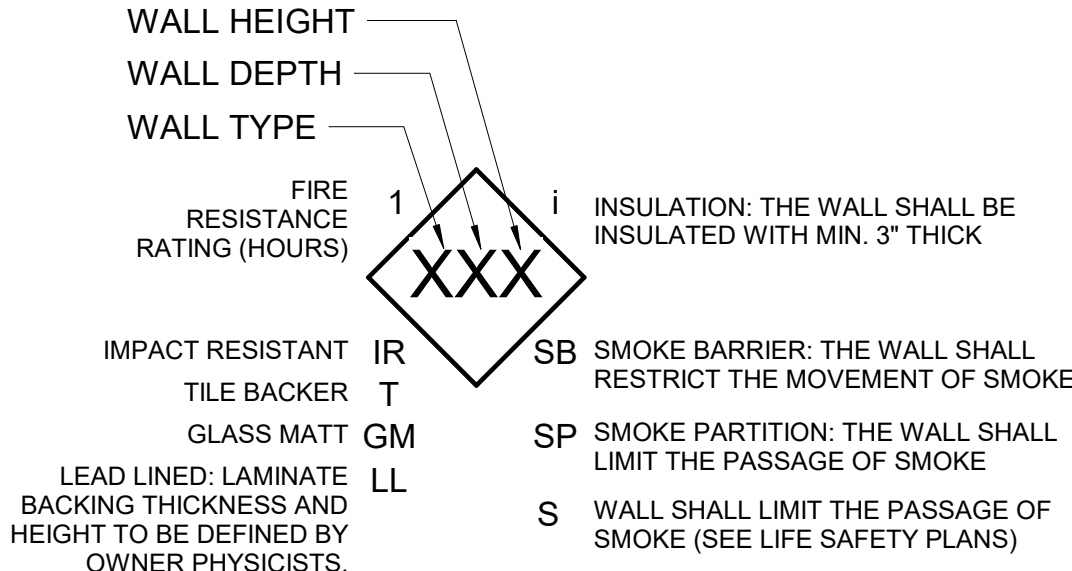


TRANSITION AT EXISTING CORRIDOR WALL TILE BASE TO FLOOR TILE

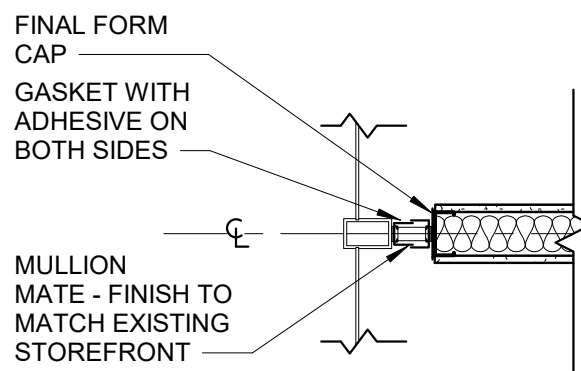
WALL TAG SYMBOL LEGEND

NOTE:

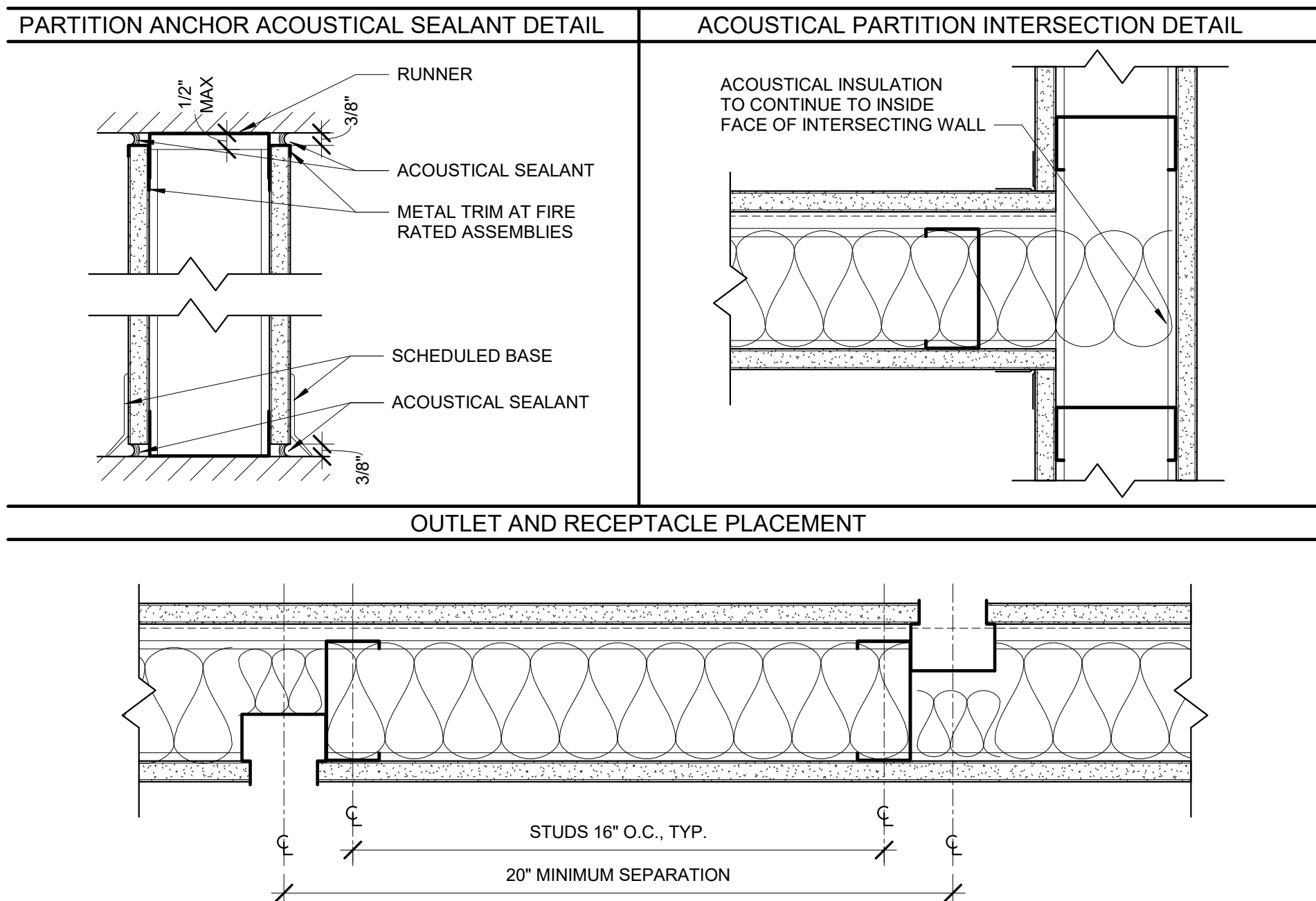
1. AT RATED WALLS SEALANT TO BE FIRE RATED PER FIRE TEST NUMBER INDICATED; MASONRY PARTITION TO BE SEALED TO STRUCTURE WITH U.L. RATED SYSTEM EQUAL TO WALL RATING.
2. G.W.B. AT RATED WALLS TO BE FIRE RATED



WALL TERMINATION AT MULLION



ACOUSTICALLY INSULATED PARTITION DETAILS
REQUIRED FOR ALL WALLS WITH ACOUSTICAL INSULATION



	3 3/4"		4 7/8"		7 1/4"	
	2 1/2"	2 1/2" W/ INSUL.	3 5/8"	3 5/8" W/ INSUL.	6"	6" W/ INSUL.
STUDS TO STRUCTURE ABOVE	A: RATED PARTITION W/ GWB SEALED TO STRUCTURE ABOVE AND BELOW					
	<A2A>	<A2A>	<A3A>	<A3A>	<A6A>	<A6A>
	B: PARTITION W/ GWB SEALED TO STRUCTURE ABOVE AND BELOW					
	<A2B>	<A2B>	<A3B>	<A3B>	<A6B>	<A6B>
	C: PARTITION W/ GWB TO 4" ABOVE CEILING					
WALL HEIGHT	D: PARTITION W/ GWB & STUDS TO FINISHED CEILING					
	<A2D>	<A2D>	<A3D>	<A3D>	<A6D>	<A6D>
	E: PARTIAL HEIGHT PARTITION W/ GWB TO X'-X" AFF					
	<A2E>	<A2E>	<A3E>	<A3E>	<A6E>	<A6E>
	ACOUSTICAL RATING (WHERE WALL HEIGHT A OR B WITH INSUL.)					
40		49	40	49	40	49
FIRE TEST NUMBER (WHERE WALL HEIGHT A)		N/A	N/A	UL DES U465	UL DES U465	UL DES U465

	2 1/4"		3 1/8"		4 1/4"		6 5/8"	
	1 5/8"	1 5/8" W/ INSUL.	2 1/2"	2 1/2" W/ INSUL.	3 5/8"	3 5/8" W/ INSUL.	6"	6" W/ INSUL.
STUDS TO STRUCTURE ABOVE	B: PARTITION W/ GWB SEALED TO STRUCTURE ABOVE AND BELOW							
	<B1B>	<B1B>	<B2B>	<B2B>	<B3B>	<B3B>	<B6B>	<B6B>
	C: PARTITION W/ GWB TO 4" ABOVE CEILING							
	<B1C>	<B1C>	<B2C>	<B2C>	<B3C>	<B3C>	<B6C>	<B6C>
	D: PARTITION W/ GWB & STUDS TO FINISHED CEILING							
WALL HEIGHT	E: PARTIAL HEIGHT PARTITION W/ GWB TO X'-X" AFF							
	<B1E>	<B1E>	<B2E>	<B2E>	<B3E>	<B3E>	<B6E>	<B6E>
	ACOUSTICAL RATING (WHERE WALL HEIGHT A OR B WITH INSUL.)							
	N/A	N/A	N/A	N/A	40+	49+	40+	49+
	FIRE TEST NUMBER							
N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A

	1 1/8"		1 1/2"		1 3/8"	
	1/2"	7/8"	3/4"	3/4"	3/4"	3/4"
STUDS TO STRUCTURE ABOVE	B: PARTITION W/ GWB SEALED TO STRUCTURE ABOVE AND BELOW					
	<C0B>	<C1B>	<C2B>	<C2B>	<C2B>	<C2B>
	C: PARTITION W/ GWB TO 4" ABOVE CEILING					
	<C0C>	<C1C>	<C2C>	<C2C>	<C2C>	<C2C>
	D: PARTITION W/ GWB & STUDS TO FINISHED CEILING					
PARTITION HEIGHT	E: PARTIAL HEIGHT PARTITION W/ GWB TO X'-X" AFF					
	<C0E>	<C1E>	<C2E>	<C2E>	<C2E>	<C2E>
	ACOUSTICAL RATING					
	N/A	N/A	N/A	N/A	N/A	N/A
	FIRE TEST NUMBER					
N/A		N/A	N/A	N/A	N/A	N/A

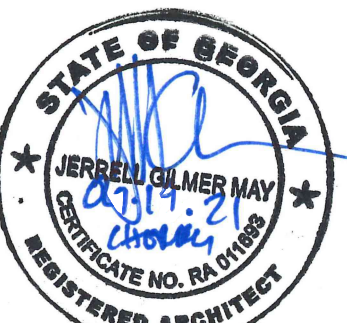
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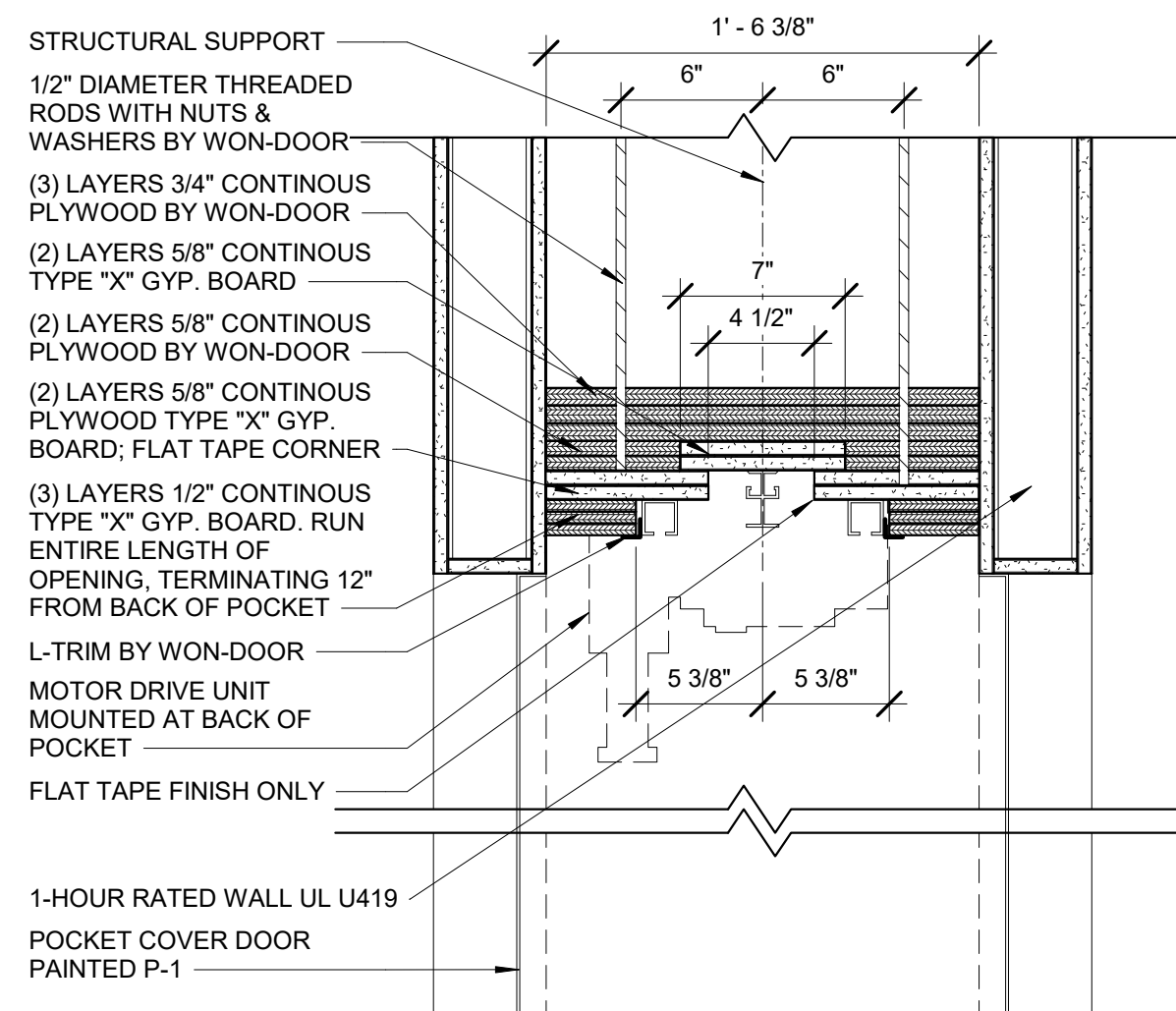
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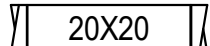


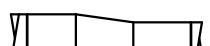


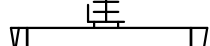


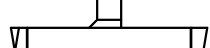

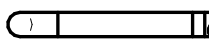


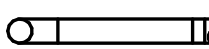


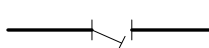


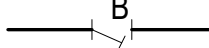





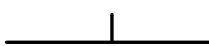


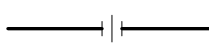


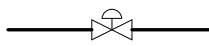


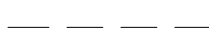
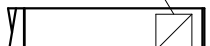

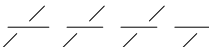
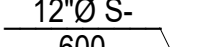

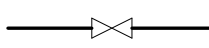
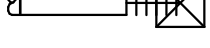

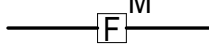
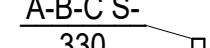

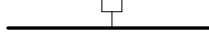
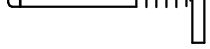

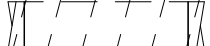
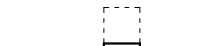
WALL TYPES &
FINISH DETAILS

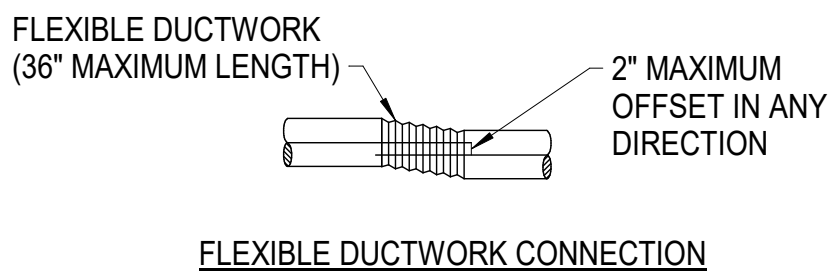
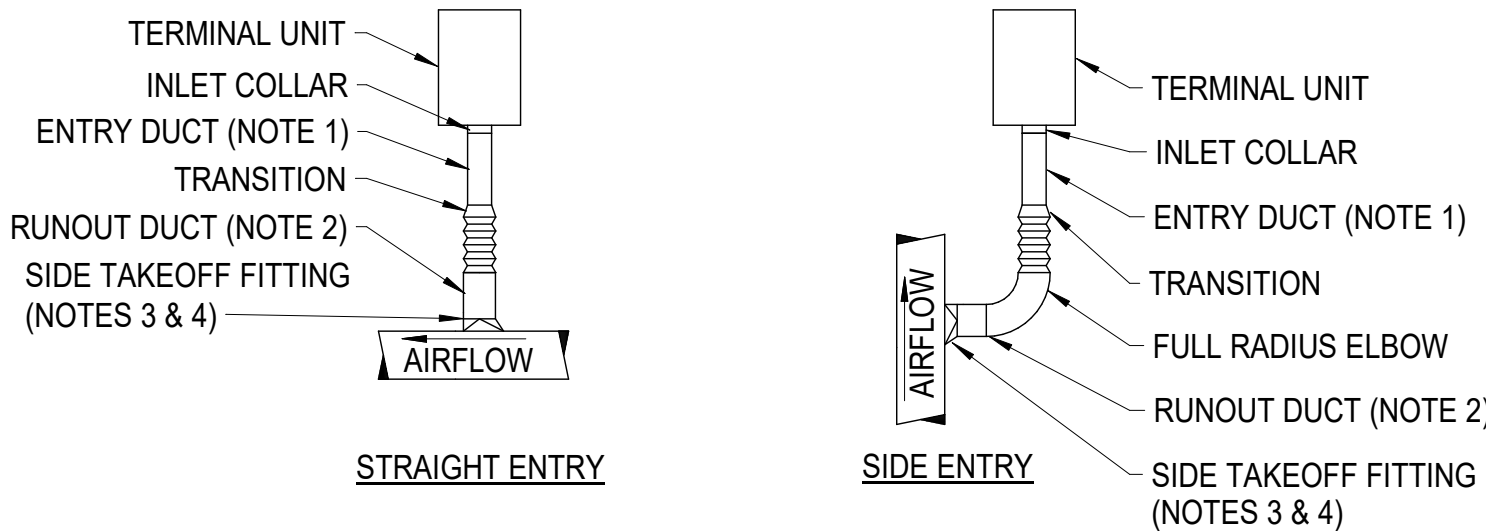
SCALE As indicated

A.800



7/15/2021 1:10:51 PM

HVAC LEGEND					
PIPING, VALVES AND ACCESSORIES		DUCTWORK AND AIR DISTRIBUTION		ABBREVIATIONS AND SYMBOLS	
	HOT WATER SUPPLY		DUCT (FIRST DIMENSION IS SIDE SHOWN IN INCHES)		ROUND OR FLAT OVAL DUCTWORK
	HOT WATER RETURN		TRANSITION		TEMPERATURE SENSOR
	ELBOW - 45°		PRESS-ON COLLAR FITTING WITH ROUND FLEXIBLE DUCT		AIR PRESSURE DROP
	ELBOW - 90°		90° BRANCH TAKEOFF		ARCHITECT/ARCHITECTURAL
	ELBOW - TURNED DOWN		RADIUS BRANCH TAKEOFF		CUBIC FEET PER MINUTE
	ELBOW - TURNED UP		MANUAL DAMPER (MD), BACKDRAFT DAMPER (BD), LOW LEAKAGE MANUAL DAMPER (LMD), OR CONTROL DAMPER (CD)		CONNECT TO EXISTING
	STRAINER		MANUAL DAMPER (MD), BACKDRAFT DAMPER (BD), LOW LEAKAGE MANUAL DAMPER (LMD), OR CONTROL DAMPER (CD)		DRY BULB
	STRAINER (BASKET TYPE)		TURNING VANES		ENTERING AIR TEMPERATURE
	REDUCER - ECCENTRIC		TURNING VANES		ENTERING WATER TEMPERATURE
	TEE		TURNING VANES		GALLONS PER MINUTE
	UNION OR FLANGE		TURNING VANES		LEAVING AIR TEMPERATURE
	2-WAY CONTROL VALVE		TURNING VANES		LEAVING WATER TEMPERATURE
	EXISTING PIPING		TURNING VANES		SPECIFICATION
	EXISTING PIPING TO BE REMOVED		TURNING VANES		TEMPERATURE
	GATE VALVE		TURNING VANES		WATER GAUGE
	FLOW CONTROL VALVE (M-MANUAL TYPE; A-AUTOMATIC TYPE)		TURNING VANES		WATER PRESSURE DROP
	THERMOMETER TEST WELL		TURNING VANES		
			EXISTING DUCTWORK OR EQUIPMENT		
			EXISTING DUCTWORK OR EQUIPMENT TO BE REMOVED		
			TERMINAL UNIT WITH REHEAT AND INLET DUCT TRANSITION AND FLEXIBLE DUCT SHOWN		

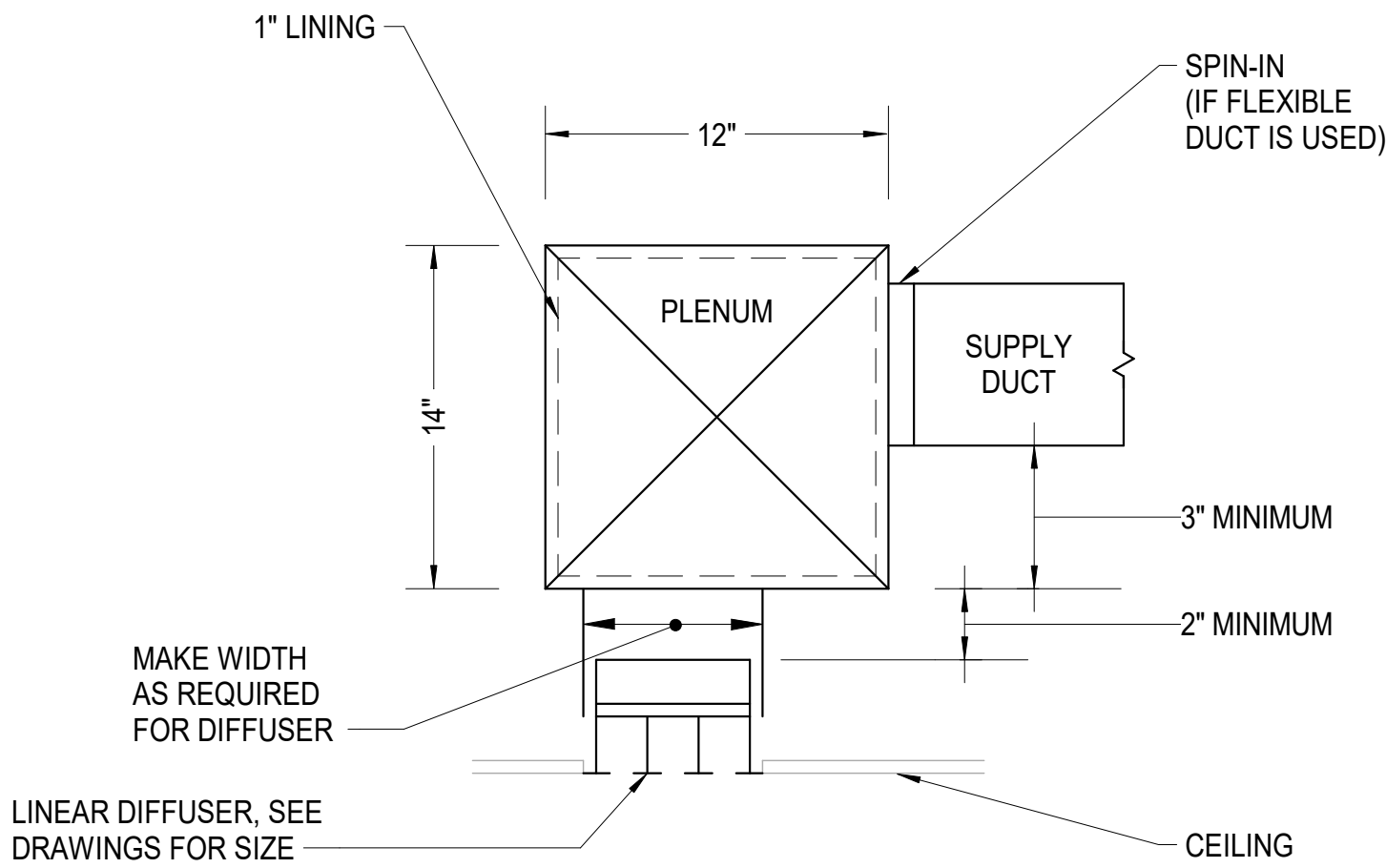


- NOTES:
- ENTRY DUCT SHALL MATCH INLET COLLAR SIZE, BE INDEPENDENTLY SUPPORTED FROM THE TERMINAL UNIT, AND HAVE A TOTAL LENGTH THAT IS 3 TIMES THE DIAMETER OR WIDTH OF THE INLET COLLAR SIZE.
 - THE RUNOUT FROM THE PRIMARY DUCT TO THE ENTRY DUCT, INCLUDING THE FLEXIBLE DUCT, SHALL BE SIZED AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS.

INLET COLLAR AND ENTRY DUCT SIZES	RUNOUT FROM PRIMARY TO ENTRY DUCT
4"ø	8"ø
5"ø	8"ø
6"ø	10"ø
7"ø	12"ø

- FOR ROUND TAKEOFF CONNECTIONS TO ROUND OR FLAT OVAL PRIMARY SUPPLY DUCTS, PROVIDE A CONICAL TAP IN LIEU OF A SIDE TAKEOFF FITTING.
- FOR AIR HANDLING SYSTEMS WHERE THE PRIMARY SUPPLY DUCT DISTRIBUTION IS PROVIDE A CONICAL TAP IN LIEU OF A SIDE TAKEOFF FITTING. FITTINGS SHALL BE CONCENTRIC TYPE.

3 HVAC73 - TERMINAL UNIT INLET
SCALE: NO SCALE



- NOTES:
- NECK AND PLENUM LENGTH SHALL BE DETERMINED BY ACTIVE DIFFUSER LENGTH.
 - DIFFUSER MOUNTING FRAME SHALL BE DETERMINED BY CEILING CONSTRUCTION AND MOUNTING CONDITIONS. SEE ARCHITECTURAL DRAWINGS.
 - TRANSITION AND/OR ADJUST PLENUM DIMENSIONS TO COORDINATE WITH STRUCTURE OR OTHER UTILITIES.
 - SEE DRAWINGS FOR SPECIAL PLENUM SIZES.

2 LINEAR DIFFUSERS
SCALE: NO SCALE

HVAC GENERAL NOTES	
1.	REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF GRILLES, REGISTERS, AND DIFFUSERS.
2.	COORDINATE CEILING AND WALL ACCESS PANEL LOCATIONS FOR EQUIPMENT AND DEVICES THAT WILL REQUIRE ACCESS ABOVE SHEETROCK CEILINGS.
3.	REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS OF MECHANICAL EQUIPMENT.
4.	MINIMUM PIPE SIZE SHALL BE 0.75", UNLESS SPECIFICALLY SHOWN OTHERWISE.
5.	SEE DIVISION 26 FOR 120 V, 20 A ELECTRICAL BRANCH CIRCUITS DESIGNATED FOR CONTROL POWER, TERMINATED IN JUNCTION BOXES. PROVIDE POWER WIRING FROM THE DESIGNATED JUNCTION BOXES THROUGH CONTROL POWER TRANSFORMERS TO TERMINAL UNIT CONTROLLERS.

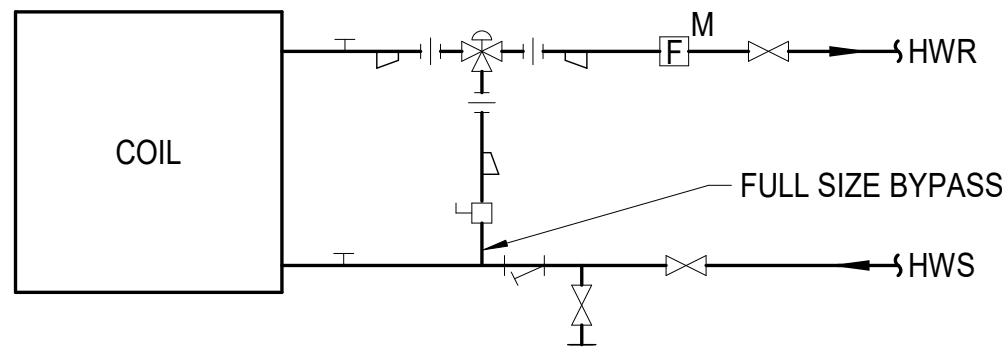
TERMINAL UNIT SCHEDULE						
NO.	TYPE (NOTE 1)	PRIMARY CFM		HOT WATER COIL		
		MAXIMUM COOLING	MINIMUM	CAPACITY MBH (NOTE 2)	GPM (NOTE 3)	PIPE RUNOUT SIZES, IN.
VAV-1-7	VV-R	400	200	10	1.0	0.5
VAV-1-8	VV-R	400	200	10	1.0	0.75
VAV-1-9	VV-R	500	250	12	1.2	0.75
VAV-1-10	VV-R	500	250	10	1.0	0.75
VAV-1-11	VV-R	400	200	10	1.0	0.75

- NOTES:
- TYPE: VV-R VARIABLE VOLUME - REHEAT
 - CAPACITY BASED ON 55°F EAT. SCHEDULED GPM SHALL BE PROVIDED REGARDLESS OF EAT.
 - HOT WATER BASED ON 180°F EWT AND MAXIMUM 3" WPD.
 - SEE SPECIFICATIONS FOR AHRI TESTING/CERTIFICATION REQUIREMENTS. THE MAXIMUM ALLOWABLE SOUND POWER LEVELS IN dB @ 10 pW, SHALL BE WITHIN THE AHRI 880-2011 ADDENDUM 1 TOLERANCES OF THE FOLLOWING LEVELS:

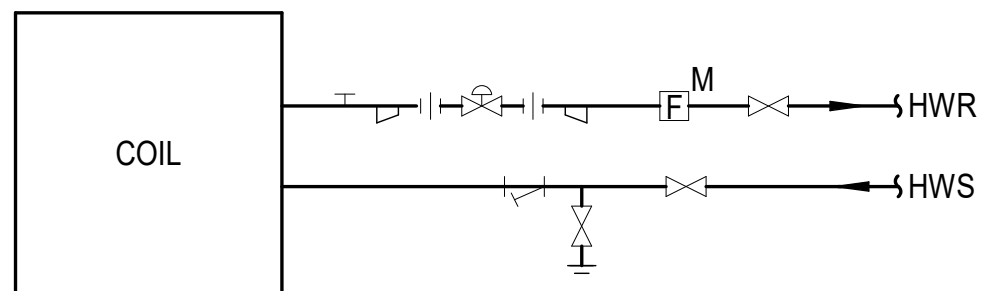
	OCTAVE BAND		
	2	3	4
CASING RADIATED DISCHARGE, LESS THAN 900 CFM	71	66	63
DISCHARGE, 900 CFM OR MORE	66	63	59
	68	63	61

LEVELS BASED ON MAXIMUM PRIMARY CFM AND MINIMUM DIFFERENTIAL STATIC PRESSURE OF 1" WG.

- DIFFERENTIAL STATIC PRESSURE DROP ACROSS COMPLETE ASSEMBLY, INCLUDING HEATING COIL, FOR ALL UNITS SHALL NOT EXCEED 0.3" WG ΔPD.
- REFER TO THE ELECTRICAL DRAWINGS FOR THE EQUIPMENT ELECTRICAL CHARACTERISTICS.
- THE DRAWINGS INDICATE THE DESIGN INTENT TO PROVIDE ACCESS TO HEATING COILS, CONTROL PANELS, AND ACCESS DOORS. IF TERMINAL UNITS PROVIDED ARE CONFIGURED DIFFERENTLY, THE ACCESS REQUIREMENTS SHALL BE ADJUSTED IN THE FIELD.



FOR 3-WAY VALVES



FOR 2-WAY VALVES

- NOTES:
- PROVIDE SWING JOINTS AT SUPPLY AND RETURN CONNECTIONS TO MAINS WHERE COIL RUNOUTS ARE LESS THAN 5'-0" LONG.
 - THIS DETAIL ALSO APPLIES TO DUCT-MOUNTED HOT WATER COILS.
 - PROVIDE 3-WAY VALVES FOR TERMINAL UNIT SERVING LOBBY AND 2-WAY VALVES FOR ALL OTHER TERMINAL UNITS.
 - LOCATE NEEDLE VALVES AS CLOSE TO COIL CONNECTIONS AS POSSIBLE.

1 TERMINAL UNIT HOT WATER COILS
SCALE: NO SCALE



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COA EXP: 06/30/2022

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STRUCTURAL ENGINEERING



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CHERRY EMERSON GRAD. OFFICE & LOBBY RENOVATION

CHERRY EMERSON BUILDING
310 FERST DRIVE
ATLANTA, GA 30332

OWNER PROJECT NO.
0255-2021
PROJECT NO. 2021029

ISSUE DATE 07.14.21
ISSUED FOR CONSTRUCTION

REVISIONS DATE

HVAC LEGEND AND DETAILS

SCALE As indicated

M.000

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
K	MECHANICAL SPECIFICATIONS															K
	A. GENERAL:															
J	1. COMPLY WITH PROVISIONS OF INTERNATIONAL MECHANICAL CODE-2012 WITH GEORGIA STATE AMENDMENTS-2015.															J
	2. PROVIDE ACCESS TO EQUIPMENT AND APPARATUS REQUIRING OPERATION, SERVICE OR MAINTENANCE THROUGHOUT THE LIFE OF THE SYSTEM.															
	3. 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															
	4. THE EXISTING INSTALLATION SHALL REMAIN EXCEPT WHERE OTHERWISE INDICATED OR SPECIFIED.															
	5. PERFORM ALL WORK NECESSARY TO INTERCONNECT THE NEW WORK WITH THE EXISTING WORK AND TO ADAPT THE EXISTING WORK TO THE CHANGES IN THE BUILDING AND THE SYSTEM.															
I	6. COORDINATE THE INSTALLATION WITH THE STRUCTURE, ARCHITECTURE, AND WORK OF OTHER TRADES TO ELIMINATE CONFLICTS.															I
	7. SCHEDULE WORK SO EXISTING SYSTEMS WILL NOT BE INTERRUPTED OBTAIN APPROVAL PRIOR TO ANY UTILITY INTERRUPTION OR CONNECTION.															
	8. EQUIPMENT AND MATERIALS SHALL, UNLESS OTHERWISE SPECIFIED HEREIN, BE NEW AND SHALL BE OF THE CUSTOMARY STANDARD AND QUALITY FURNISHED BY THE DESIGNATED MANUFACTURER FOR THAT CATALOGUE NUMBER															
	9. PLUG ENDS OF PIPES WHEN WORK IS STOPPED TO PREVENT DEBRIS FROM ENTERING THE PIPES.															
	10. HVAC SUBMITTALS SHALL INCLUDE THE FOLLOWING: A. INSULATION B. GRILLES, REGISTERS AND DIFFUSERS, INCLUDING PERFORMANCE DATA. C. TERMINAL UNITS															
H	B. DEMOLITION:															H
	1. REMOVE PIPING RENDERED USELESS DUE TO CHANGES. CAP OUTLETS IN PIPING.															
	2. WHERE EXISTING CEILINGS ARE REMOVED, LUMINAIRES, EXIT SINGS, AND OTHER ELECTRICAL POWER AND SIGNAL APPARATUS MOUNTED TO THE CEILING OR CEILING SUPPORTS, INCLUDING ASSOCIATED RACEWAYS AND WIRING, SHALL BE REMOVED.															
	3. MATERIAL AND EQUIPMENT WHICH HAS BEEN REMOVED SHALL NOT BE USED IN THE NEW WORK, EXCEPT AS INDICATED HEREIN.															
G	4. COORDINATE THE INSTALLATION OF NEW PIPING, DUCTWORK, AND OTHER EQUIPMENT WITH EXISTING EQUIPMENT WHICH IS TO REMAIN OPERATIONAL TO AVOID CONFLICT WITH OPERATING PERFORMANCE AND WORKING CLEARANCES.															G
	C. HANGERS AND SUPPORTS:															
	A. GENERAL:															
F	1. COMPLETE WITH RODS AND SUPPORTS PROPORTIONED TO THE SIZE OF PIPING OR EQUIPMENT TO BE SUPPORTED.															F
	2. FOR COPPER PIPING 4" AND SMALLER: COPPER-PLATED; ANVIL CT-69, B-LINE B3170 CT, OR ERICO 101.															
	3. PIPING SUPPORT SPACING SHALL BE FROM CENTER TO CENTER OF THE SUPPORT.															
	4. SUPPORT CONNECTED PIPING AND EQUIPMENT INDEPENDENTLY OF EACH OTHER.															
	5. ADJUST HANGERS, CLAMPS, AND SUPPORTS SO THAT LOADING AND SUPPORT IS UNIFORM.															
	6. SUSPEND HANGER RODS ONLY FROM THE STRUCTURE: DO NOT SUSPEND FROM PIPING, EQUIPMENT OR DUCTWORK.															
	7. ISOLATE BARE COPPER TUBING FROM FERROUS METAL HANGERS, CHANNEL STRUT SUPPORTS, AND BUILDING COMPONENTS WITH FELT OR RUBBER LINERS.															
E	B. HANGER RODS:															E
	1. ONE-PIECE STEEL TYPE, THREADED AS REQUIRED.															
	2. SIZES, UNLESS SPECIFIED OTHERWISE HEREIN, SHALL BE AS FOLLOWS: PIPE SIZE ROD DIAMETER PIPE SIZE ROD DIAMETER 2" AND SMALLER 0.375"															
	3. SIZES FOR GANG OR MULTIPLE HANGERS: CALCULATED FOR THE COMBINED WEIGHT OF THE PIPING AND ACCESSORIES.															
	C. INSERTS:															
D	1. ADJUSTABLE TYPE: ANVIL 282, B-LINE B3014, OR ERICO 355.															D
	2. CONTINUOUS TYPE: ANVIL PS-5000, B-LINE B321, OR ERICO CON.															
	D. EXPANSION ANCHORS:															
	1. IN CONCRETE: WEDGE, SELF-DRILLING, OR DRILLED FLUSH TYPE.															
	2. IN MASONRY: SLEEVE TYPE.															
	3. MANUFACTURER: HILTI, ITW RAMSET/RED HEAD, OR RAWL.															
C	E. INSULATION PROTECTORS: ANVIL 167, B-LINE B3151, OR ERICO 125.															C
	F. CHANNEL STRUT SYSTEMS: 14 GAUGE MINIMUM GALVANIZED STEEL, WITH FACTORY-PUNCHED ATTACHMENT HOLES. STRAPS SHALL BE DESIGNED SO THAT THE ATTACHMENT NUT IS CAPTIVE ON THE SHOULDER OF THE STRAP WHEN TIGHTENED. ATTACHMENT NUTS SHALL BE DESIGNED TO PROVIDE A SURFACE ON THE TURNED DOWN EDGE WHILE MAKING POSITIVE CONTACT WITH THE SIDE WALLS OF THE CHANNEL. NUTS, BOLTS, STRAPS, AND ACCESSORIES SHALL BE PROTECTED WITH SAME FINISH AS CHANNELS.															
	1. MANUFACTURER: B-LINE, KINDORF, MIDLAND-ROSS, OR UNISTRUT.															
B																B
A																A
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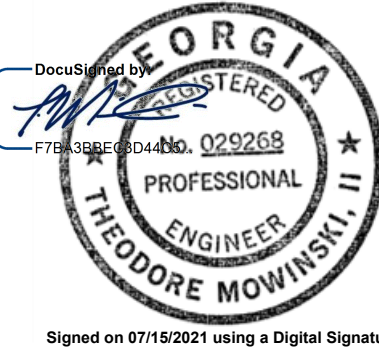
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COA EXP: 06/30/2022

SHEAR STRUCTURAL
STRUCTURAL ENGINEERING



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HVAC
SPECIFICATIONS

SCALE

M.001

- G. EXECUTION
1. HANGERS AND SUPPORTS:
a. SUPPORT 2.5" AND SMALLER PIPING INDEPENDENTLY IN A PARALLEL PLANE, AND EQUALLY SPACED SIDE TO SIDE, EXCEPT WHERE A CHANNEL STRUT IS USED.

b. HORIZONTAL SUPPORT SPACING: SUPPORTS FOR COPPER PIPING: 0.5" TO 1.25" MAXIMUM OF 5', 1.5" TO 2.5" MAXIMUM OF 8', AND 3" AND LARGER MAXIMUM OF 10'.

c. HANGERS AND SUPPORTS FOR INSULATED PIPING SHALL BEAR ON OUTSIDE OF INSULATION. HANGERS SHALL BE SIZED FOR UNCOMPRESSED INSULATION THICKNESS.

d. PROVIDE INSULATION PROTECTORS.

e. SUPPORT PIPING INDEPENDENTLY OF EQUIPMENT.

f. ADJUST HANGERS AND SUPPORTS SO THAT LOADING IS UNIFORM.

g. HANGER RODS SHALL BE SUSPENDED FROM THE STRUCTURE. DO NOT SUSPEND FROM OTHER PIPING, EQUIPMENT, OR DUCTWORK.

2. EXPANSION ANCHOR TYPE CONCRETE AND MASONRY INSERTS:

a. USE FOR PIPING IN CURED CONCRETE CONSTRUCTION.

b. INSTALL PER MANUFACTURER'S REQUIREMENTS.

c. SELECT FOR MAXIMUM LOAD PLUS A SAFETY FACTOR OF 3 TIMES THE CALCULATED LOAD.
- D. VALVES
- A. GENERAL:

1. VALVES OF THE SAME PIPING TYPE SHALL BE OF THE SAME MANUFACTURER, UNLESS SPECIFIED OTHERWISE HEREIN.

B. BALL VALVES - COPPER TUBING:

1. BALL VALVES FOR USE WITH BRAZED COPPER TUBING 0.5" TO 2": BRONZE BODY, QUARTER TURN ON/OFF WITH LEVER HANDLE, FACTORY- CLEANED AND SEALED FOR OXYGEN SERVICE.

2. VALVES 0.5" IN SIZE SHALL BE 1-PIECE TYPE WITH BRONZE BODY, STAINLESS STEEL BALL AND STEM WITH 1000 PSIG WORKING PRESSURE WITH FACTORY-SUPPLIED TUBE STUBS.

1. MANUFACTURER: APOLLO, NIBCO, STOCKHAM, OR WATTS.

3. VALVES 0.75" AND LARGER SHALL BE BOLTED UNION-BALL TYPE. BODY SHALL BE CAST OR FORGED BRONZE, SWING-AWAY TYPE WITH STAINLESS STEEL BALL, DESIGNED FOR VACUUM AND WORKING PRESSURE UP TO 400 PSIG.

1. MANUFACTURER FOR BRAZED TUBING SYSTEMS: APOLLO, NIBCO, STOCKHAM, OR WATTS.

4. SEAT AND STEM SEALS SHALL BE DESIGNED FOR THE GAS SYSTEM INTENDED.
- E. GRILLES, REGISTERS AND DIFFUSERS
- A. GENERAL:

1. SELECTION OF GRILLES, REGISTERS AND DIFFUSERS SHALL BE BASED ON AIR INTRODUCED AT A 20°F TEMPERATURE DIFFERENTIAL.

2. GRILLES AND REGISTERS WITH BORDERS SHALL HAVE FELT OR RUBBER GASKETS CEMENTED TO THE BACK FACE AND HOLDING SCREWS NOT OVER 18" ON CENTER AROUND THE PERIMETER.

3. WALL-MOUNTED GRILLES AND REGISTERS LOCATED LESS THAN 7' ABOVE FINISHED FLOOR SHALL BE HEAVY DUTY, IMPACT-RESISTANT TYPE.

4. DIFFUSERS IN LAY-IN CEILINGS SHALL LAY IN A NOMINAL 24" X 24" GRID OPENING AND SHALL BE FURNISHED WITHOUT EXPOSED FLANGES.

5. EXTRACTORS: ADJUSTABLE THROUGH THE FACE OF THE GRILLE OR REGISTER.

6. DIFFUSERS SHALL BE COMPLETE WITH STRAIGHTENING VANES, AND OPPOSED OR ROTATING BLADE VOLUME CONTROL DAMPERS. STRAIGHTENING VANES ARE NOT REQUIRED WHERE DIFFUSERS ARE ATTACHED TO ROUND FLEXIBLE DUCTWORK. VOLUME CONTROL DAMPERS ARE NOT REQUIRED WHERE SINGLE DIFFUSERS ARE SERVED BY BRANCH DUCTS WITH DAMPERS AT TAKE-OFFS.

7. INTERNAL PARTS OF DIFFUSERS SHALL BE DESIGNED SO THEY CAN BE ADJUSTED, REMOVED, AND ASSEMBLED WITHOUT SPECIAL TOOLS.

8. DIFFUSERS SHALL HAVE ROUND NECKS OR SHALL BE PROVIDED WITH SQUARE-TO-ROUND COLLARS WHERE CONNECTED TO ROUND OR FLEXIBLE DUCT.

9. FINISHES, UNLESS OTHERWISE SPECIFIED HEREIN:

1. STEEL GRILLES AND REGISTERS: WHITE BAKED ENAMEL.
2. DIFFUSER FACES AND FRAMES: WHITE BAKED ENAMEL.
3. DIFFUSERS INTERIOR: SAME AS FACE AND FRAME.

10. GRILLES, REGISTERS AND DIFFUSERS SHALL BE PROVIDED WITH FRAMES, BORDERS, AND MOUNTING ATTACHMENTS FOR INSTALLATION IN THE ACTUAL WALL, SOFFIT, AND CEILING CONSTRUCTION IN WHICH INSTALLED.

B. SUPPLY DEVICES:

1. TYPE S-SR - SIDEWALL SUPPLY REGISTER, DOUBLE-DEFLECTION TYPE WITH VERTICAL FRONT BLADES, HORIZONTAL REAR BLADES, AND OPPOSED-BLADE VOLUME DAMPER.

2. TYPE S-PF - SQUARE PLATE FACE DIFFUSER TYPE WITH SINGLE SQUARE AIR DIFFUSION PANEL. DIFFUSERS SHALL HAVE AN 18" X 18" STEEL FACE PANEL MOUNTED ON AN AERODYNAMICALLY SHAPED, ONE-PIECE, SEAMLESS 24" X 24" BACKPAN. EXPOSED SURFACES OF FACE PANELS SHALL BE SMOOTH, FLAT, AND FREE OF VISIBLE FASTENERS. PROVIDE INTEGRAL BALANCING DAMPER ACCESSIBLE AT THE FACE WHERE INDICATED ON THE DRAWINGS.

3. TYPE S-LD - LINEAR DIFFUSER, EXTRUDED ALUMINUM TYPE, WITH 1" WIDE SLOTS AND INTEGRAL VOLUME CONTROL, PATTERN ADJUSTMENT, AND CONCEALED MOUNTING FRAME. FINISH IN BAKED ENAMEL WITH WHITE FACE. INTERIOR COMPONENTS VISIBLE AFTER INSTALLATION FINISHED FLAT BLACK. NUMBER IN TAG INDICATES NUMBER OF SLOTS.

C. EXHAUST AND RETURN DEVICES:

1. TYPE R-SG - SIDEWALL GRILLE, SINGLE-DEFLECTION, 35° FIXED POSITION, 0.5" ON CENTER, HORIZONTAL BLADES.

2. TYPE R-EG - EGGCRATE GRILLE, 0.5" X 0.5" X 0.5" FABRICATED ALUMINUM EGGCRATE.

3. TYPE R-LG - LINEAR GRILLE, EXTRUDED ALUMINUM TYPE, WITH 1" WIDE SLOTS AND CONCEALED MOUNTING FRAME. FINISH IN BAKED ENAMEL WITH WHITE FACE. NUMBER IN TAG INDICATES NUMBER OF SLOTS.

3. WALL RETURN GRILLES INSTALLED SHALL BE INSTALLED WITH BLADES ANGLED SO THE INSIDE OF THE DUCT OR THE ADJACENT SPACE WILL NOT BE VISIBLE THROUGH THE GRILLES.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
K																K
	F. SHEET METAL DUCTWORK															
	A. GENERAL															
	1. DUCTWORK SHALL HAVE THE FOLLOWING STATIC PRESSURE CLASSIFICATIONS, UNLESS OTHERWISE SPECIFIED HEREIN:															
	a. FROM AIR VALVES TO GRILLES, REGISTERS AND DIFFUSERS: 2" WG.															
	b. FROM VARIABLE VOLUME AIR HANDLING UNITS TO TERMINAL UNITS: 4 " WG.															
J	2. DUCTWORK, EXCEPT WHERE OTHERWISE SPECIFIED HEREIN, INCLUDING FACTORY-FABRICATED ROUND, AND APPARATUS CASINGS SHALL BE CONSTRUCTED OF GALVANIZED STEEL IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, 2005.															J
	B. SHEET METAL WORK - ACCESSORIES:															
	1. WELD OR MECHANICAL GRIP PINS: AGM, DURO-DYNE, OR ERICO.															
	2. DUCT SEALANTS: LIQUID, MASTIC, GASKET, OR TAPE AND ACTIVATOR TYPE, ASBESTOS-FREE, COMPLYING WITH NFPA 90A-2015 AND UL 181-2013.															
	3. DRAW BANDS: NYLON TYPE, COMPLYING WITH UL 181-2013, CLASS 1, AND NFPA 90A-2015.															
I	4. INSTRUMENT TEST PORTS: FLANGED BASE WITH SCREW CAP AND GASKET, AND FLAT MOUNTING GASKET FOR FLAT OR ROUND DUCT. HEIGHT SHALL ACCOMMODATE DUCT INSULATION THICKNESS.															I
	a. MANUFACTURER: VENTLOK 699 SERIES.															
	A. ROUND DUCTWORK:															
	1. ROUND DUCTWORK (EXCEPT RUNOUTS TO DIFFUSERS), INCLUDING FITTINGS AND ACCESS PANELS, SHALL BE FACTORY-FABRICATED BY A MANUFACTURER REGULARLY ENGAGED IN THE QUALITY PRODUCTION OF SUCH DUCTWORK.															
H	2. FITTINGS SHALL HAVE CONTINUOUS WELDS ALONG JOINTS, AND DUCTWORK SHALL BE THE SPIRAL TYPE.															H
	3. DIVIDED FLOW FITTINGS (TEES, CROSSES, LATERALS) SHALL BE MANUFACTURED AS SEPARATE FITTINGS, NOT AS TAP COLLARS WELDED INTO SPIRAL DUCT SECTIONS.															
	4. ENTRANCES INTO LATERALS (SIDE OUTLETS) SHALL BE MADE SMOOTH BY MACHINING, PRESS FORMING OR GRINDING, AND SHALL BE WITHOUT FLOW RESTRICTIONS, PROJECTIONS, WELD BUILD-UPS OR BURRS.															
	5. WHERE SIZE EQUALS OR EXCEEDS 6", 90 TAKEOFFS SHALL BE OF THE CONICAL TYPE.															
G	6. EXCEPT WHERE OTHERWISE INDICATED ON THE DRAWINGS, JOINTS SHALL BE MADE WITH SLIP COUPLINGS AND SCREWS OR COMPANION FLANGES AS RECOMMENDED BY THE MANUFACTURER. SUBMIT DETAILS FOR JOINTS FOR EXPOSED DUCTWORK FOR APPROVAL.															G
	7. ELBOWS SHALL BE SMOOTH RADIUS WITH A CENTERLINE RADIUS OF 1.5 TIMES THE DUCT DIAMETER.															
	8. MANUFACTURER: EASTERN SHEET METAL, HAMLIN SHEET METAL, IMPULSE AIR, MCGILL AIRFLOW, OR SEMCO.															
	D. FLEXIBLE DUCTWORK:															
	1. CHLORINATED POLYETHYLENE; ALUMINUM FOIL, FIBERGLASS, AND ALUMINIZED POLYESTER TRILAMINATE; OR COATED WOVEN FIBERGLASS CLOTH, MECHANICALLY LOCKED OR PERMANENTLY BONDED TO A NONCORROSIVE METAL HELIX. FACTORY-INSULATED WITH FIBERGLASS WITH A PROTECTIVE VAPOR BARRIER JACKET TO ACHIEVE AN ADC CERTIFIED MINIMUM R-VALUE OF 6.0°F·FT²·H/BTU AT 75°F.															
F	2. MANUFACTURER: FLEXMASTER, OR THERMAFLEX.															F
	E. HANGERS AND SUPPORTS:															
	1. DUCT HANGERS AND SUPPORTS SHALL BE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, 2005.															
	2. EXECUTION															
	a. UNLESS OTHERWISE SPECIFIED HEREIN OR INDICATED ON THE DRAWINGS, CONSTRUCT AND INSTALL SHEET METAL WORK IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, 2005.															
	b. PROVIDE SUPPLEMENTAL STIFFENING AND SUPPORTS TO DUCTS AND APPARATUS CASINGS TO PREVENT DRUMMING, SAGGING AND TO PROVIDE A STRUCTURALLY SOUND ASSEMBLY.															
	c. DUCTWORK AND SHEET METAL SEAMS, JOINTS, PENETRATIONS, CONNECTIONS AND ATTACHMENTS SHALL BE SEALED.															
	1. SEALANTS SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR EACH SPECIFIC APPLICATION.															
	2) DUCTWORK FAILING THE LEAKAGE TESTS SPECIFIED IN SECTION 23 00 95, TESTING, ADJUSTING AND BALANCING SHALL BE REPAIRED, REWORKED OR REBUILT UNTIL SATISFACTORY, BEFORE ADDITIONAL DUCTWORK IS INSTALLED AND BEFORE DUCTWORK IS CONCEALED.															
D	3. ENTIRE AIR SYSTEM INSTALLATION SHALL BE RIGID, AND FREE FROM RATTLES AND AIR NOISES. INTERIOR OF DUCTS SHALL BE SMOOTH.															D
	4. PROVIDE OFFSETS, ELBOWS, AND TRANSITIONS TO COORDINATE WITH OTHER WORK.															
	5. PROVIDE TRANSITIONS TO CONNECT DUCTWORK TO EQUIPMENT AND COILS.															
	6. REUSED GRILLES, REGISTERS, DIFFUSERS SHALL BE IN FIRST CLASS CONDITION OR NEW SHALL BE INSTALLED.															
	7. SEAL WALL AND FLOOR PENETRATIONS.															
C	F. ROUND DUCTWORK:															C
	1. JOINTS SHALL BE SEALED WITH DUCT SEALER.															
	.															
B																B
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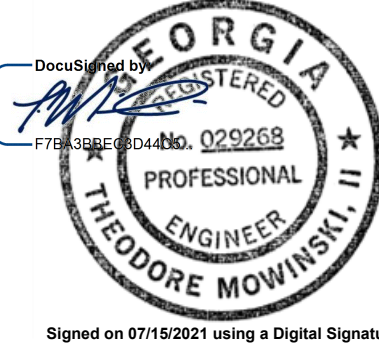
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CHERRY
EMERSON GRAD.
OFFICE & LOBBY
RENOVATION

CHERRY EMERSON BUILDING
310 FERST DRIVE
ATLANTA, GA 30332

OWNER PROJECT NO.
0255-2021
PROJECT NO. 2021029

ISSUE DATE 07.14.21
ISSUED FOR CONSTRUCTION

REVISIONS	DATE
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HVAC
SPECIFICATIONS

SCALE

M.002

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K	I. TERMINAL UNITS:															K
	1. JOHNSON CONTROLS SHALL INCLUDE, AS PART OF THE CONTROLS SCOPE OF WORK, VAV READY UNITS WITH FACTORY INSTALLED PIPING AND CONTROLS. TERMINAL UNITS SHALL INCLUDE SUPPLY, EXHAUST, COOLING ONLY, WITH HOT WATER RE-HEAT COIL, TRACKING PAIR, SINGLE DUCT, AND FAN POWERED UNITS AS SCHEDULED. TERMINAL UNITS SHALL BE SUPPLIED BY THE CONTROLS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.															
J	2. ALL CONTROLS AND HYDRONICS PIPING SHALL BE ACCESSIBLE FROM THE SAME SIDE OF THE UNIT. ALL HYDRONICS PIPING PACKAGES SHALL BE PIPED IN THE OPPOSITE DIRECTION OF THE CONTROL PANEL, DOWNSTREAM OF THE VAV TERMINAL UNIT.															J
	3. FOR EACH TERMINAL UNITS, JCI SHALL PROVIDE AND SHIP A FACTORY INSTALLED CONTROL PACKAGE CONSISTING OF A DDC ELECTRONIC CONTROLLER AND ROOM SENSOR, DIFFERENTIAL PRESSURE TRANSDUCER, AN ELECTRIC DAMPER ACTUATOR AND AN ELECTRONIC CONTROL VALVE. ALL COMPONENTS SHALL BE FURNISHED, MOUNTED, PIPED AND WIRED BY THE VRU UNIT MANUFACTURER AT THE FACTORY. THE CONTROL VALVE WIRING TO THE DDC CONTROLLER SHALL BE ENCASED IN 3/8 INCH FLEXIBLE CONDUIT IN ACCORDANCE WITH UL-1995 AND THE NATIONAL ELECTRIC CODE. AN ELECTRICAL JUNCTION BOX WITH A DISCONNECT SWITCH, 24 VOLT TRANSFORMER WITH LOW VOLTAGE WIRING SHALL BE PROVIDED AND MOUNTED ON THE TERMINAL UNITS BY THE TERMINAL UNITS MANUFACTURER. ALL RELAYS REQUIRED SHALL BE INSTALLED AND WIRED IN THE ELECTRICAL ENCLOSURE.															
I	4. JCI SHALL COORDINATE SHIPPING SCHEDULE WITH PROJECT TEAM. TERMINAL UNITS SHALL SHIP JUST IN TIME (JIT) BY QUADRANT/ZONE AS REQUIRED BY THE PROJECT TEAM WITH INTEGRATED PROJECT DELIVERY METHODS. THE PROJECT TEAM SHALL GIVE ADEQUATE NOTICE TO THE MANUFACTURER UPON APPROVAL OF SUBMITTALS FOR MANUFACTURER TO PROPERLY PLAN MATERIAL FLOW SO AS TO MEET REQUIRED DELIVERY DATES WITH STAGING OF PRODUCT AS REQUIRED.															I
	5. DIGITAL DATA RETRIEVAL SYSTEM – TERMINAL UNIT'S MANUFACTURER SHALL PROVIDE THE FOLLOWING AS PART OF THE OPERATIONAL AND MAINTENANCE MANUALS IN DIGITAL FORM:															
H	a. DIGITAL IMAGES OF EACH INDIVIDUAL TERMINAL UNITS SHIPPED INCLUDING THE HYDRONIC PIPING PACKAGES, CONTROLS HARDWARE, ELECTRICAL, COIL AND TERMINAL UNIT TAKEN BEFORE SHIPMENT. CONTROLLER SOFTWARE AND INDIVIDUAL VRU PERFORMANCE PROGRAMMING FILES SPECIFIC TO EACH TERMINAL UNITS BY TAG NO.															H
	b. APPROVED SUBMITTALS.															
	c. OPERATIONAL AND MAINTENANCE INSTRUCTIONS.															
	d. PARTS LISTS WITH MANUFACTURERS MODEL AND PART NUMBER.															
	e. CAD DRAWINGS.															
	f. VALIDATION AND COMMISSIONING SHEETS.															
G	6. TERMINAL UNITS SHALL BE CONSTRUCTED OF NOT LESS THAN 22 GAUGE GALVANIZED STEEL WITH A MINIMUM ZINC COATING. AIR TERMINALS SHALL BE CERTIFIED UNDER ARI STANDARD 885-98. TERMINAL UNITS SHALL BE EITHER UL OR ETL CERTIFIED. AIR TERMINAL SHALL BE INSULATED WITH ½ INCH THICK, 1.5 LBS/CUBIC FOOT (EPF) ENGINEERED POLYMER FOAM INSULATION LINER, RATED TO PREVENT AIR FLOW EROSION TO 6000 FPM SURFACE VELOCITY. THE INSULATION SHALL COMPLY WITH UL 181 AND NFPA 255 (25/50). MATERIAL SHALL BE CHEMICALLY RESISTANT TO MOST HYDROCARBON BASED SOLVENTS. MATERIAL SHALL NOT SUPPORT MOLD GROWTH OR DEMONSTRATED DEGRADATION WHILE SUBJECT TO AIR EROSION WHEN TESTED IN ACCORDANCE WITH UL 181 AND UMC 10-1. ALL INTERIOR FEATURES OF THE BOXES (SUCH AS MIXING BAFFLES, DAMPER HOUSINGS, ETC.) SHALL BE SECURED WITHIN THE CASING TO AVOID EXCESSIVE MOVEMENT OR RATTLING WITH AIR MOVEMENT OR EXTREMELY GENERATED VIBRATION.															G
	7. THE STATIC PRESSURE ACROSS THE ASSEMBLY WITH AN EQUIVALENT 1,800 FPM INLET VELOCITY THROUGH ONE INLET SHALL NOT EXCEED .05 INCHES WATER GAUGE, WITH THE TOTAL FLOW THROUGH EITHER INLET.															
	8. AN 8 INCH DIAMETER OR 7.75 INCH BY 7.75 INCH GASKETED HINGED ACCESS DOOR SHALL BE PROVIDED ON THE TERMINAL UNIT. DOOR FRAME MAY BE BOLTED, SEALED OR FLANGED TO THE CASING. THE DOOR SHALL BE GASKETED AND INSULATED WITH DOUBLE WALL CONSTRUCTION. DOOR SHALL BE HELD IN PLACE WITH A CAM LOCK LATCH ALLOWING QUICK ACCESS WITHOUT THE USE OF TOOLS.															
F	9. A CONTROL PANEL WITH A SLIDING CONTROLS COVER SHALL BE SUPPLIED. THE CONTROLS COVER SHALL RESIDE IN A SET POSITION WITHOUT THE USE OF MECHANICAL FASTENERS OR SCREWS. "QUICK RELEASE" SHEET METAL TABS/GUIDE STOPS SHALL BE SUPPLIED TO KEEP THE COVER FROM SLIPPING OFF WHEN IN THE FULLY OPEN POSITION. THE "QUICK RELEASE" TABS/GUIDE STOPS SHALL BE DESIGNED IN SUCH A WAY TO ALLOW THE COMPLETE REMOVAL OF THE COVER. A HANDLE SHALL BE SUPPLIED ON THE CONTROLS COVER FOR OPENING AND CLOSING THE CONTROLS COVER. CONTROL PANELS WITHOUT A SLIDING ENCLOSURE, HANDLE AND "QUICK RELEASE" TABS ARE NOT ACCEPTABLE. ALL ELECTRICAL AND ELECTRONIC COMPONENTS INCLUDING BOTH LINE VOLTAGE AND LOW VOLTAGE SHALL BE MOUNTED IN THE METAL CONTROLS ENCLOSURE PER APPLICABLE CODES. UNITS SHALL HAVE A SINGLE POINT WIRING CONNECTION. UNITS SHALL BE MANUFACTURED AND WIRED PER UL-1995 AND IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE THE CONTROL PANEL SHALL INCLUDE STAND-OFFS TO ALLOW MOUNTING OF CONTROLS WITHOUT PENETRATING THE CASING.															F
	10. AIR VALVE AND FAN PARALLEL WITH BACKDRAFT DAMPER ON FAN, AND BAFFLES TO PREVENT STRATIFICATION. INTERMITTENT FAN OPERATION.															
E	11. ELECTRONIC COMMUTATED (EC) MOTOR WITH ELECTRONIC SPEED CONTROLLER, THERMAL OVERLOAD PROTECTION, FAN MOTOR CONTROLLER, TRANSFORMER, DISCONNECT SWITCH, AND WIRING.															E
	12. HOT WATER COILS SHALL BE FACTORY INSTALLED WITH A MAXIMUM OF TEN (10) ALUMINUM FINS PER INCH AND RATED IN ACCORDANCE WITH ARI 410. THE COIL CIRCUITING SHALL BE A MULTI CIRCUITED HEADER WITH CORROSION FREE BRASS MANUAL AIR VENT PIPED IN AT THE HIGHEST AND DRAIN AT THE LOWEST POINT OF PIPING TO ENSURE EFFICIENT DRAINAGE AND AIR REMOVAL FROM THE COIL.															
D	13. THE FOLLOWING MINIMUM PIPING COMPONENTS SHALL BE SUPPLIED; A VALVE PACKAGE CONSISTING OF A BALL VALVE WITH A #20 STAINLESS STEEL SCREEN TO ACT AS A STRAINER, A UNION, P/T (PRESSURE TEMPERATURE) PORT, DRAIN OR BLOW-DOWN WITH INTEGRATED BALL VALVE, 0.75 INCH MALE GARDEN HOSE END CONNECTION WITH A DURABLE PLASTIC RETAINER, CAP. UNION WITH P/T PORT.															D
	14. THE HYDRONICS PIPING STRUCTURE AND COIL SHALL BE CHARGED WITH A GAS AT THE FACTORY BEFORE SHIPMENT AT GREATER THAN SEA LEVEL PRESSURE AT THE ASSEMBLY AREA; SEAL THE GAS IN THE PIPING STRUCTURE; TEST THE SEALED PIPING STRUCTURE FOR A MINIMUM OF 12 HOURS TO DETERMINE WHETHER THE GAS STAYS WITHIN THE HYDRONICS PIPING STRUCTURE AND COIL THROUGH THE USE OF A PRESSURE GAUGE.															
	15. JCI SHALL BE RESPONSIBLE FOR PROPER SELECTION/SIZING OF THE TERMINAL UNITS BASED ON SCHEDULED PERFORMANCE PARAMETERS.															
C	16. A 1-YEAR PARTS AND LABOR WARRANTY (EXTENDED WARRANTIES AVAILABLE) SHALL BE INCLUDED FOR ALL COMPONENTS INTEGRAL TO THE TERMINAL UNITS INCLUDING TERMINAL UNIT, CONTROLS AND HYDRONICS IN ACCORDANCE WITH THE TERMINAL UNIT'S MANUFACTURER'S WARRANTY TERMS.															C
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DocuSign

Signed on 07/15/2021 using a Digital Signature.

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OFFICE & LOBBY
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PROJECT NO. 2021029

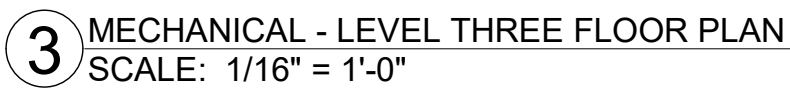
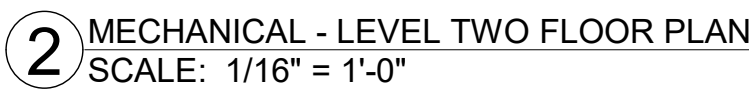
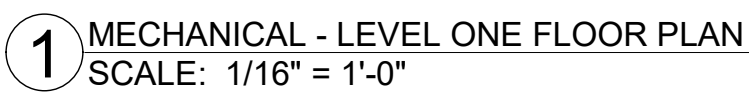
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HVAC
SPECIFICATIONS

SCALE

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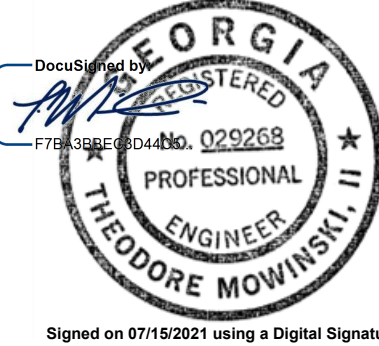
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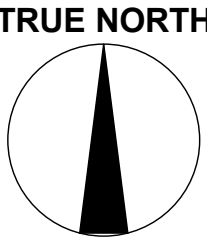


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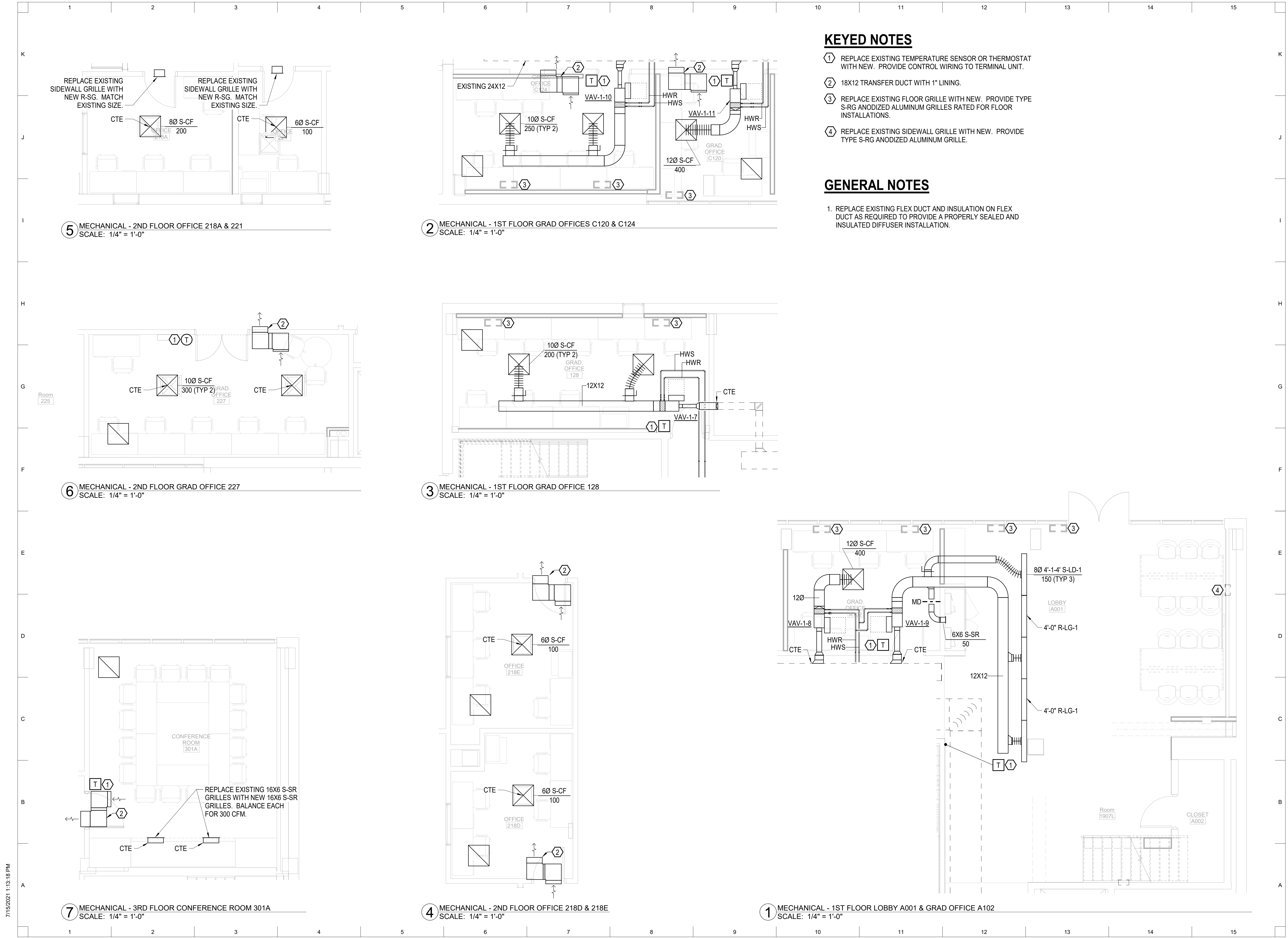


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MECHANICAL -
LEVELS 1, 2 & 3
DEMOLITION PLANS

SCALE 1/4" = 1'-0"

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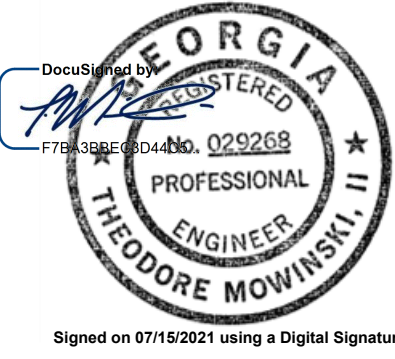
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MECHANICAL - LEVELS 1, 2 & 3 FLOOR PLANS

SCALE 1/4" = 1'-0"

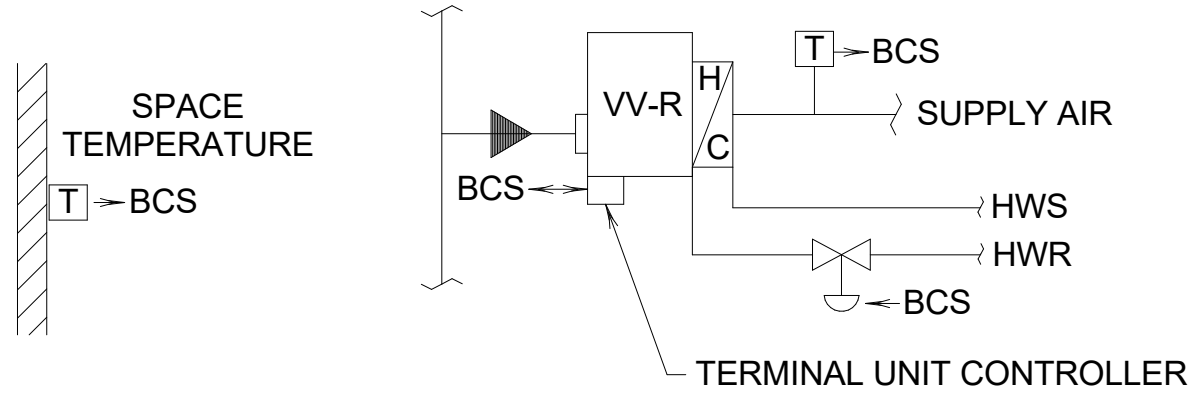
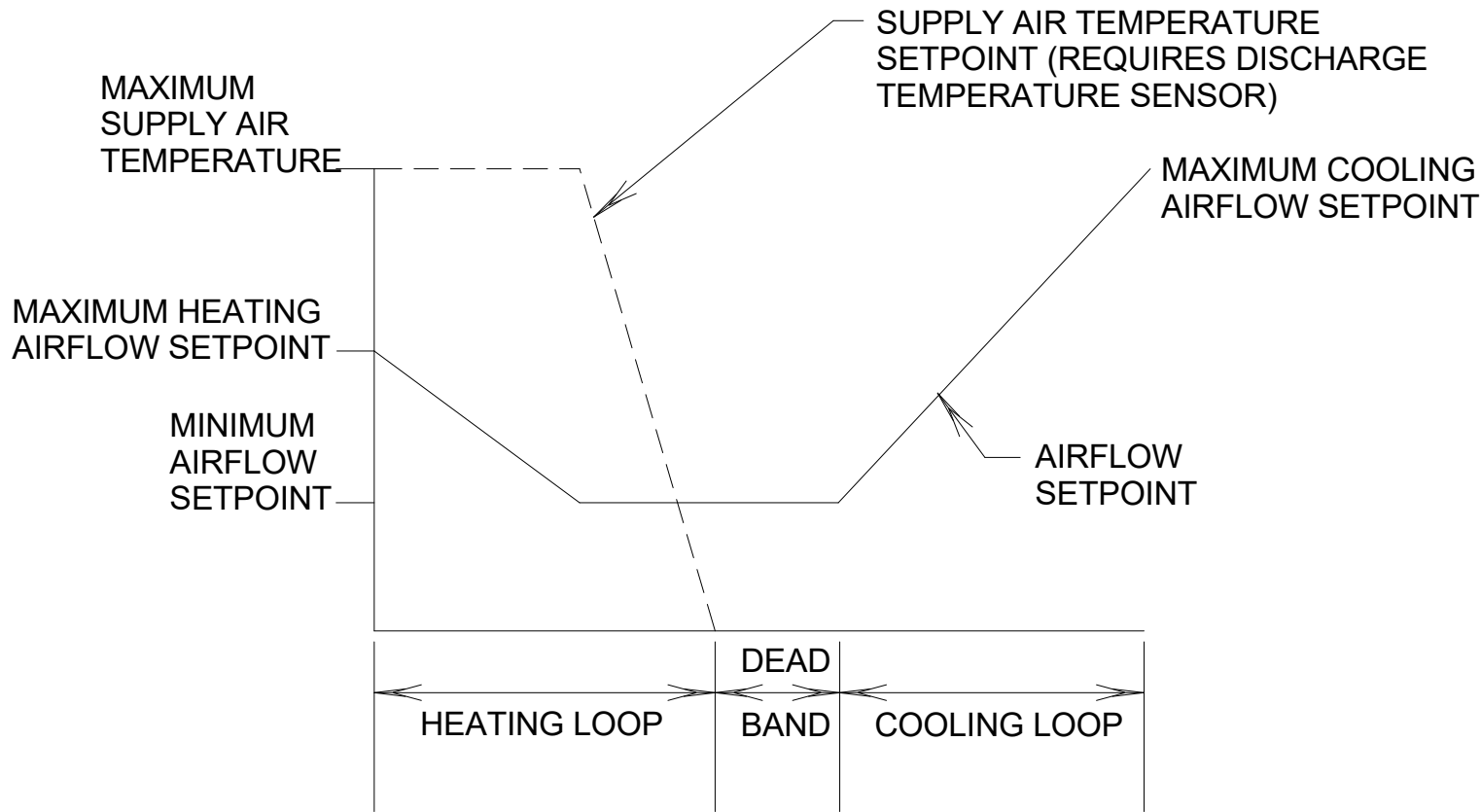
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BCS CONTROLLER
INPUT/OUTPUT SUMMARY

VV-R TYPE
TERMINAL UNIT

BCS CONTROLLER INPUT/OUTPUT SUMMARY		OUTPUTS				INPUTS				SOFTWARE							FAILURE MODE (SEE NOTES 1 AND 2)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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VV-R TYPE TERMINAL UNIT	X	SYSTEM GRAPHIC DISPLAY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

- NOTES:
- FAILURE MODE: O - ON OR OPEN, C - OFF OR CLOSE, L - LAST COMMAND
 - 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, CPU LOCK-UP, OR INTERPOSING RELAY FAILURE, CPU LOCK-UP, OR INTERPOSING RELAY FAILURE. SAFETY AND OPERATIONAL INTERLOCKS SHALL REMAIN IN EFFECT.
 - PROVIDE TERMINAL UNIT CONTROLLER WITH IDENTICAL CONTROL POINTS AND FUNCTIONS FOR EACH VV-R TERMINAL UNIT.
 - TERMINAL UNIT CONTROLLERS SHALL BE SERVED FROM EXISTING BCS.



1 CONTROL SCHEMATIC FOR VV-R TERMINAL UNITS
NO SCALE



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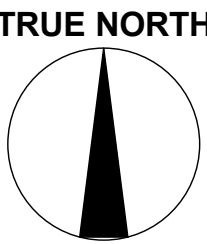
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HVAC CONTROLS

SCALE 1/8" = 1'-0"

M.201

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RACEWAYS AND WIRES	
SYMBOL	DESCRIPTION
	RACEWAY CONCEALED IN FLOOR OR UNDERGROUND.
	RACEWAY CONCEALED IN CEILING CAVITY OR WALL.
	RACEWAY EXPOSED TO VIEW UNLESS OTHERWISE NOTED.
	FLEXIBLE RACEWAY.
	RACEWAY HOMERUN TO PANEL, ONE ARROWHEAD PER CIRCUIT.
	3 WIRES #12 AWG IN CABLE OR CONDUIT, EXCLUDING GROUNDING CONDUCTOR. 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 IN CABLE OR CONDUIT.
	RACEWAY TURNED UP.
	RACEWAY TURNED DOWN.

ELECTRICAL EQUIPMENT	
SYMBOL	DESCRIPTION
	BRANCH PANELBOARD - WALL-MOUNTED, RECESSED-MOUNTED, SURFACE-MOUNTED 480/277 V, 208/120 V
	DISTRIBUTION PANELBOARD. 480/277 V, 208/120 V
	INDIVIDUAL CIRCUIT BREAKER, TRIP/POLES. MOUNT 48" AFF, UNLESS OTHERWISE NOTED.
	DISCONNECT SWITCH, SIZE/POLES/FUSE/ENCLOSURE TYPE IF OTHER THAN NEMA 1. MOUNT 48" AFF, UNLESS OTHERWISE NOTED.
	MOTOR, NUMERAL INDICATES HP. "F" INDICATES FRACTIONAL HORSE POWER.
	MOTOR CONTROLLER. MOUNT 48" AFF, UNLESS OTHERWISE NOTED.
	COMBINATION MOTOR CONTROLLER/DISCONNECT. MOUNT 48" AFF, UON.
	MOTOR STARTER, MANUAL WITH THERMAL OVERLOAD. MOUNT 48" AFF, UON.
	GROUNDING ELECTRODE.
	WOOD BACKBOARD.
	PULLBOX.

CIRCUITING	
	1. POWER 48 INDICATES MOUNTING HEIGHT OTHER THAN STANDARD UP-1A:9 INDICATES PANEL AND/OR CIRCUIT NUMBER
	2. LIGHTING 14 INDICATES SWITCHED ZONE CONFIGURATION P, E INDICATES CIRCUIT NUMBER/ZONE NUMBER P, E INDICATES EMERGENCY, UON. INDICATES LUMINAIRE TYPE
	DENOTES PANELBOARD FROM WHICH CIRCUITS WITHIN DESIGNATED AREA SHALL BE SERVED, OR DENOTES SPECIFIC CIRCUIT FROM WHICH CONNECTIONS SHALL BE MADE, UON. SEE PANELBOARD SCHEDULES FOR CIRCUITING REQUIREMENTS. THE MAXIMUM NUMBER OR BRANCH CIRCUIT PHASE CONDUCTORS INSTALLED IN SINGLE CONDUIT SHALL NOT EXCEED THREE (3), UON.

WIRING DEVICES		
• LETTER(S) ADJACENT TO SYMBOLS INDICATE TYPE, AS LISTED BELOW. SEE SPECIFICS RELATED TO EACH TYPE. • SHADED REGION INDICATES PROVISIONS FOR EMERGENCY POWER, UNLESS OTHERWISE NOTED.		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT, AFF, UON
	BLANK - STANDARD DEVICE. S - SWITCHED RECEPTACLE. USB - USB RECEPTACLE. IG - ISOLATED GROUND. NL - NIGHTLIGHT. C - CORROSION-RESISTANT. WP - PROVIDE WITH WEATHERPROOF FACEPLATE. AV - MOUNT ADJACENT TO A/V INPUT WALL PLATE. REFER TO A/V DRAWINGS FOR EXACT REQUIREMENTS AND MOUNTING HEIGHTS. TV - FOR A/V MONITOR, MOUNTED WITHIN A/V BACKBOX. COORDINATE MOUNTING WITH A/V CONTRACTOR, UON.	
	DUPLEX RECEPTACLE OUTLET, WALL-MOUNTED.	18"
	DUPLEX RECEPTACLE OUTLET, WALL-MOUNTED, ABOVE COUNTER.	
	GFCI DUPLEX RECEPTACLE OUTLET, WALL-MOUNTED.	18"
	GFCI DUPLEX RECEPTACLE OUTLET, WALL-MOUNTED, ABOVE COUNTER.	
	DOUBLE DUPLEX RECEPTACLE OUTLET, WALL-MOUNTED.	18"
	GFCI DOUBLE DUPLEX RECEPTACLE OUTLET, WALL-MOUNTED.	18"
	DUPLEX RECEPTACLE OUTLET, EXISTING TO REMAIN.	
	SINGLE RECEPTACLE OUTLET, STRAIGHT-BLADE, WALL-MOUNTED. BLANK - STANDARD DEVICE. IG - ISOLATED GROUND. CL - CLOCK HANGAR, TAMPER RESISTANT.	18"
	SPECIAL RECEPTACLE, WALL-MOUNTED. SEE SCHEDULE.	
	CONNECTION TO MODULAR FURNITURE, WALL-MOUNTED. PROVIDE FLEXIBLE NON-METALLIC CONNECTION.	
	JUNCTION BOX, WALL-MOUNTED.	
	JUNCTION BOX, FLOOR.	
	JUNCTION BOX, ABOVE CEILING.	
	DUPLEX RECEPTACLE, CEILING-MOUNTED.	
	DUPLEX RECEPTACLE MOUNTED IN POKE-THRU WITH COVERPLATE. BLANK = POWER ONLY P/D = POWER / DATA AV = AUDIO VISUAL	

MECHANICAL CONNECTIONS	
MECHANICAL EQUIPMENT IS DENOTED WITH SYMBOLS WHICH REPRESENT THE ACTUAL EQUIPMENT. SYMBOLS INDICATED WITH AN UNDERLINED TAG ARE MECHANICAL EQUIPMENT WHICH REQUIRE AN ELECTRICAL CONNECTION. EXAMPLES INCLUDE BUT ARE NOT LIMITED TO:	
	HP-2-1
	FC-2-2
	AHU-2
REFER TO BUILDING-SPECIFIC MECHANICAL EQUIPMENT CONNECTION SCHEDULE AND REFER TO ONE-LINES, SWITCHBOARD SCHEDULES, OR PANELBOARD SCHEDULES FOR CIRCUIT INFORMATION.	

LOW-VOLTAGE INFRASTRUCTURE	
INCLUDED IN THIS PACKAGE ARE LOW-VOLTAGE DRAWINGS AS PROVIDED BY THE OWNER. ELECTRICAL CONTRACTOR SHALL PROVIDE RACEWAYS, BOXES, AND FLOOR OUTLETS AS REQUIRED ON THE LOW VOLTAGE DRAWINGS.	

LUMINAIRES	
• LETTER(S) ADJACENT TO SYMBOLS INDICATE LUMINAIRE TYPE, AS LISTED ON LUMINAIRE SCHEDULE. SEE LUMINAIRE SCHEDULE FOR SPECIFICS RELATED TO EACH TYPE. • SHADED REGION INDICATES PROVISIONS FOR EMERGENCY BATTERY PACK, UON.	
	RECESSED- OR SURFACE-MOUNTED. 2'x2', 2'x4', AND 1'x4'
	NARROW, LINEAR LUMINAIRE. RECESSED-, SURFACE-, OR PENDANT MOUNTED. LENGTH PER FLOOR PLANS.
	RECESSED WALLWASH DOWNLIGHT. ROUND, SQUARE APERTURE.
	RECESSED DOWNLIGHT. ROUND, SQUARE APERTURE.
	MONO-POINT PENDANT WITH ROUND APERTURE.
	WALL-MOUNTED LUMINAIRE.
	WALL-MOUNTED LINEAR LUMINAIRE.
	INDUSTRIAL STRIP LUMINAIRE.
	ADJUSTABLE LUMINAIRE. LETTER INDICATES LUMINAIRE TYPE.
	EXIT LIGHT, CEILING-, PENDANT-, OR WALL-MOUNTED. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ARROW AND FACE REQUIREMENTS. ELECTRICAL DRAWINGS REFERENCE LOCATIONS AND INDICATED CODE REQUIRED CIRCUIT INFORMATION.
	TRACK LUMINAIRE.

LIGHTING CONTROL DEVICES		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT, AFF, UON.
	SWITCH, WALL-MOUNTED, TYPE DESIGNATED: BLANK - SINGLE-POLE, SINGLE-THROW 3 - 3-WAY, SINGLE-POLE, DOUBLE-THROW 4 - 4-WAY, DOUBLE-POLE, DOUBLE-THROW P - PILOT LIGHT H - LIGHTED HANDLE K - KEYED MC - MOMENTARY CONTACT S - PROJECTION SCREEN CONTROL OS - OCCUPANCY SENSOR TYPE OS2 - OCCUPANCY SENSOR TYPE, DUAL RELAY VS - VACANCY SENSOR TYPE TS - TIMER SWITCH WP - WEATHERPROOF, SINGLE-POLE, SINGLE-THROW	COORD WITH ARCH
	DIMMER WITH SINGLE-POLE SWITCH, WALL-MOUNTED, TYPE DESIGNATED: BLANK - 0-10 VOLT 3 - 3-WAY LV - LOW VOLTAGE	COORD WITH ARCH
	NETWORKED LIGHTING CONTROL STATION, DESIGNATION INDICATED: MCS - MASTER CONTROL STATION RCS - REMOTE CONTROL STATION	COORD WITH ARCH
	CEILING-MOUNTED LIGHTING CONTROL DEVICE, DESIGNATION INDICATED: OS - OCCUPANCY SENSOR VS - VACANCY SENSOR PS - PHOTOSENSOR	
	CORNER-MOUNTED (WALL OR CEILING) LIGHTING CONTROL DEVICE, DESIGNATION INDICATED:	WALL 8'-0" AFF
	EMERGENCY LIGHTING CONTROL RELAY.	
	TIME SWITCH.	
	PHOTOCELL.	
	CONTACTS, NORMALLY OPEN.	
	CONTACTS, NORMALLY CLOSED.	

DISCLAIMER	
SYMBOLS, ABBREVIATIONS, AND OTHER INFORMATION DEPICTED ON THIS SHEET ARE FOR INFORMATION ONLY AND SHALL NOT CONSTITUTE A CHECKLIST FOR SCOPE INCLUDED IN THIS CONTRACT. ITEMS SHOWN ON THIS SHEET MAY NOT APPEAR AGAIN IN THE ELECTRICAL SERIES.	

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COA EXP: 06/30/2022

SHEAR STRUCTURAL
STRUCTURAL ENGINEERING

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Matthew J. Diano
04/07/2021 10:00 AM

REGISTERED
No. 039610
PROFESSIONAL
ENGINEER
MATTHEW J. DIANO

Signed on 07/15/2021 using a Digital Signature

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Georgia Institute of Technology

CHERRY EMERSON GRAD. OFFICE & LOBBY RENOVATION

CHERRY EMERSON BUILDING
310 FERST DRIVE
ATLANTA, GA 30332

OWNER PROJECT NO.
0255-2021
PROJECT NO. 2021029

ISSUE DATE 07.14.21
ISSUED FOR CONSTRUCTION

REVISIONS DATE

ELECTRICAL LEGEND

SCALE NO SCALE

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ELECTRICAL SPECIFICATIONS

- A. GENERAL:

 1. COMPLY WITH PROVISIONS OF NFPA 70-2017 LOCAL CODES. LOCAL CODES AND REGULATIONS SHALL GOVERN IN CASE OF CONFLICT.
 2. PROVIDE ACCESS TO EQUIPMENT AND APPARATUS REQUIRING OPERATION, SERVICE OR MAINTENANCE.
 3. OPENINGS THROUGH FIRE RATED FLOORS AND PARTITIONS SHALL BE SEALED WITH FIRE RATED SEALANT AFTER INSTALLATION OF RACEWAYS IN A MANNER TO MAINTAIN THE FIRE RATING OF THE SEPARATION.
 4. THE EXISTING INSTALLATION SHALL REMAIN EXCEPT WHERE OTHERWISE INDICATED OR SPECIFIED.
 5. PERFORM ALL WORK NECESSARY TO INTERCONNECT THE NEW WORK WITH THE EXISTING WORK AND TO ADAPT THE EXISTING WORK TO THE CHANGES IN THE BUILDING AND THE SYSTEM.
 6. COORDINATE THE INSTALLATION WITH THE STRUCTURE, ARCHITECTURE, AND WORK OF OTHER TRADES TO ELIMINATE CONFLICTS.
 7. WHERE EXISTING MECHANICAL EQUIPMENT IS MODIFIED OR RELOCATED, MODIFY THE ELECTRICAL CONNECTIONS TO THE EQUIPMENT TO ADAPT IT TO ITS NEW FUNCTION OR LOCATION.
 8. ELECTRICAL MATERIALS SHALL BE NEW AND LISTED BY THE UNDERWRITERS' LABORATORIES, INC. WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY THIS AGENCY.
 9. EACH CIRCUIT BREAKER, PANELBOARD, DISCONNECT SWITCH, OR OTHER DEVICE SHALL HAVE AN IDENTIFYING NAMEPLATE AFFIXED. NAMEPLATES SHALL BE LAMINATED PLASTIC, WHITE ENGRAVED LETTERS ON BLACK BACKGROUND FOR NORMAL POWER SUPPLY AND WHITE ENGRAVED LETTERS ON RED BACKGROUND FOR EMERGENCY POWER SUPPLY. LETTERS SHALL BE 0.25" HIGH.
- B. DEMOLITION:

 1. EQUIPMENT, APPARATUS, AND EXPOSED WIRING AND RACEWAYS RENDERED USELESS DUE TO CHANGES SHALL BE REMOVED.
 2. WHERE EXISTING CEILINGS ARE REMOVED, LUMINAIRES, EXIT SIGNS, AND OTHER ELECTRICAL POWER AND SIGNAL APPARATUS MOUNTED TO THE CEILING OR CEILING SUPPORTS, INCLUDING ASSOCIATED RACEWAYS AND WIRING, SHALL BE REMOVED.
 3. MATERIAL AND EQUIPMENT WHICH HAS BEEN REMOVED SHALL NOT BE USED IN THE NEW WORK, EXCEPT AS INDICATED HEREIN.
 4. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND FEEDERS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.
 5. CONCEALED WIRING AND RACEWAYS WHICH ARE EXPOSED BY THE REMOVAL OF WALLS, PARTITIONS, AND CEILINGS SHALL BE REMOVED. NEW CONCEALED WIRING AND RACEWAYS SERVING EXISTING LOADS PRESENTLY SERVED BY THE REMOVED WIRING AND RACEWAYS SHALL BE PROVIDED.
 6. WHERE EXISTING MECHANICAL EQUIPMENT IS REMOVED, ELECTRIC WIRING, RACEWAYS, SWITCHES AND STARTERS ASSOCIATED WITH THE EQUIPMENT SHALL BE REMOVED.
- C. WIRING DEVICES:

 1. DEVICES SHALL BE BY THE SAME MANUFACTURER.
 2. DEVICES ON NORMAL POWER CIRCUITS SHALL BE GRAY IN COLOR.
 3. SINGLE-POLE WALL SWITCHES SHALL BE 277 V, 20 A, COOPER 2221, HUBBELL HBL1221, LEVITON 1221-2, OR P&S PS20AC1.
 4. DUPLEX RECEPTACLES SHALL BE 125 V, WITH ONE-PIECE SOLID BRASS MOUNTING STRAP WITH INTEGRAL GROUND CONTACTS, COLORED GRAY FOR USE ON NORMAL POWER CIRCUITS. MANUFACTURER, 20 A: COOPER AH5362, HUBBELL HBL5362, LEVITON 5362, OR P&S 5362A.
 5. GROUND FAULT CIRCUIT INTERRUPTERS SHALL BE UL 943-2016 COMPLIANT, 125 V, DUPLEX TYPE, GRAY COLOR FOR USE ON NORMAL POWER CIRCUITS. MANUFACTURER: COOPER TWRVGF20, HUBBELL GFR5352SG, LEVITON W7899-TR, OR P&S 2095TRWR.
 6. THE APPROXIMATE LOCATIONS OF DEVICE OUTLETS ARE INDICATED. THE EXACT LOCATIONS SHALL BE DETERMINED AT THE BUILDING. THE ARCHITECT RESERVES THE RIGHT TO CHANGE THE EXACT LOCATION OF ANY SWITCH, CEILING OR OTHER OUTLET IN ANY ROOM BEFORE IT IS PERMANENTLY INSTALLED.
 7. MOUNTING HEIGHTS OF OUTLETS SHALL BE AS INDICATED MEASURED TO THE CENTERLINE OF THE OUTLET.
 8. WHERE OUTLETS AT DIFFERENT LEVELS ARE SHOWN ADJACENT, THEY SHALL BE INSTALLED IN ONE VERTICAL LINE.
 9. RECEPTACLES ON DEDICATED CIRCUITS FOR SPECIFIC ITEMS OF EQUIPMENT SHALL HAVE THE EQUIPMENT NAME ENGRAVED IN 0.125" HIGH LETTERS ON THE DEVICE PLATE.
- E. DEVICE COVERPLATES:

 1. COVERPLATES FOR FLUSH WALL OUTLETS (SWITCH, RECEPTACLE, TELEPHONE, ETC.) SHALL BE TYPE 302 SATIN FINISH STAINLESS STEEL AS MANUFACTURED BY COOPER, HUBBELL, LEVITON, OR P&S.
 2. PROVIDE CLEAR LABEL WITH 0.125" BLACK LETTERING INDICATING PANELBOARD AND CIRCUIT NUMBER.
- F. RACEWAYS:

 1. CONDUIT SIZES REFER TO THE STANDARD TRADE SIZES, ARE FOR IDENTIFICATION PURPOSES ONLY, AND ARE NOT ACTUAL DIMENSIONS.
 2. WIRES SHALL BE INSTALLED IN RACEWAYS UNLESS OTHERWISE SPECIFIED.
 3. CONCEALED AND EXPOSED RIGID RACEWAYS SHALL BE ELECTRICAL METALLIC TUBING, OF ELECTRO OR HOT-DIP GALVANIZED STEEL.
 4. RACEWAYS SHALL BE GALVANIZED FLEXIBLE STEEL CONDUIT FOR CONNECTIONS TO MOTORS (MAXIMUM LENGTH 18").
 5. JUNCTION BOXES INSTALLED FOR FUTURE USE SHALL BE PROVIDED WITH BLANK COVERPLATES.
 6. CONNECTORS AND COUPLINGS FOR RIGID CONDUIT SHALL BE THREADED GALVANIZED STEEL. INSULATED BUSHINGS SHALL BE INSTALLED ON RIGID CONDUIT CONNECTORS IN CABINETS, OUTLET BOXES AND PULL BOXES.
 7. FITTINGS FOR ELECTRICAL METALLIC TUBING SHALL BE STEEL TYPE WITH INSULATED THROAT CONNECTORS AND SHALL BE CODE APPROVED FOR EACH SPECIFIC APPLICATION.
 8. CONNECTORS FOR FLEXIBLE STEEL CONDUIT (NONWATERTIGHT) SHALL OF THE TWIST-IN, INSERTION TYPE, WITH INSULATED THROAT.
 9. CONCEALED RACEWAYS NOT IN SLABS OR WALLS SHALL BE SUPPORTED WITH CLAMPS ON HANGERS AT 8' OR LESS INTERVALS.
 10. IN GENERAL, THE CONDUIT INSTALLATION SHALL FOLLOW THE LAYOUT INDICATED. THIS LAYOUT IS, HOWEVER, DIAGRAMMATIC ONLY, AND WHERE CHANGES ARE NECESSARY DUE TO STRUCTURAL CONDITIONS, OTHER APPARATUS, OR OTHER CAUSES, SUCH CHANGES SHALL BE MADE WITHOUT ANY ADDITIONAL COST TO THE OWNER. OFFSETS IN CONDUITS ARE NOT INDICATED AND MUST BE FURNISHED AS REQUIRED.
 11. PULL LINES SHALL BE INSTALLED IN EMPTY RACEWAYS. AT EACH END, LEAVE 12" OF SLACK COILED IN BOX OR AT END OF RACEWAYS.
- G. WIRING:

 1. NO WIRE SHALL BE SMALLER THAN #12 AWG UNLESS OTHERWISE INDICATED.
 2. WIRE AND CABLE SHALL BE ANNEALED SOFT DRAWN COPPER AND HAVE A CONDUCTANCE OF 98%.
 3. SPLICES, TAPS AND TERMINATIONS:
 - a. SPLICES AND TAPS IN BRANCH CIRCUIT CONDUCTORS, #12 AWG THROUGH #8 AWG, SHALL BE MADE WITH MECHANICAL PRESSURE CONNECTORS.
 - b. TERMINATIONS OF STRANDED COPPER CONDUCTORS SHALL BE MADE WITH COPPER COMPRESSION OR INDENTOR TYPE LUGS OR WITH MECHANICAL PRESSURE LUGS.
 - c. JOINTS SHALL BE COVERED WITH 7 MIL ELECTRICAL TAPE ON BRANCH CIRCUIT WIRING CONNECTIONS, AND 10 MIL ELECTRICAL TAPE ON MECHANICAL AND INDENT CONNECTORS ON LARGER CABLES. PATENTED PLASTIC CONNECTION COVERS MAY BE USED FOR CONNECTORS IF APPROVED BY LOCAL AUTHORITY HAVING JURISDICTION.
 4. WIRE SHALL BE COLOR-CODED TO INDICATE THE VARIOUS PHASES AND NEUTRAL. WHERE COLOR-CODING IS IMPRACTICAL, 0.75" WIDE TAPE BANDS SHALL BE PROVIDED.
 5. INSULATION SHALL BE NEC TYPE THWN/THHN.
 6. COLOR-CODING FOR THE VARIOUS SYSTEMS SHALL BE AS FOLLOWS:

FOR 208/120 V SYSTEM:
PHASE A - BLACK
PHASE B - RED
PHASE C - BLUE
NEUTRAL - WHITE
GROUND - GREEN
- H. EQUIPMENT GROUNDS:

 1. EQUIPMENT, ENCLOSURES AND RACEWAYS SHALL BE GROUNDED.
 2. UNLESS OTHERWISE INDICATED, FOR CIRCUITS PROTECTED BY DEVICES RATED 20 A OR LESS, RACEWAYS MAY SERVE AS THE GROUNDING MEDIUM. ON CIRCUITS PROTECTED BY DEVICES RATED ABOVE 20 A, A GREEN COLORED OR GREEN IDENTIFIED GROUNDING CONDUCTOR SHALL BE INSTALLED IN THE RACEWAY WITH THE PHASE CONDUCTORS.
 3. BOND GROUND CONDUCTORS AT ORIGIN OF CIRCUITS, AT INTERMEDIATE PULL BOXES, AND TO PANELBOARDS OR EQUIPMENT AT TERMINATIONS.
- I. LUMINAIRES:

 1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LUMINAIRES.
 2. PROVIDE SEPARATE NEUTRALS FOR DIMMED CIRCUITS.
 3. SEE ARCHITECTURAL SECTIONS AND ELEVATIONS FOR EXACT LOCATIONS OF WALL-MOUNTED LUMINAIRES.
 4. CEILING-MOUNTED LUMINAIRES SHALL BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE.
 5. LUMINAIRES SHALL BE UL LISTED AND PROVIDED WITH AN UL LABEL.
- J. MISCELLANEOUS:

 1. MAINTAIN, ON SITE, A COMPREHENSIVE SET OF DRAWINGS WITH AS-BUILT CONDITIONS CLEARLY INDICATED IN RED.
 2. VERIFY CODE COMPLIANCE OF EXISTING CONDITIONS. IF ANY OF THE EXISTING ELECTRICAL INSTALLATION TO BE UTILIZED IN TENANT CONSTRUCTION IS FOUND TO BE DEFECTIVE OR IN VIOLATION OF NATIONAL, STATE OR LOCAL CODES, NOTIFY THE ARCHITECT IN WRITING WITHIN 5 WORKING DAYS.
 3. VERIFY THE LOAD ON EXISTING CIRCUITS TO BE MODIFIED AND/OR REUSED TO ENSURE THAT THE RATINGS OF THE OVERCURRENT PROTECTION DEVICES ARE NOT EXCEEDED. A TRUE-RMS AMMETER WHICH GIVES WIDE BANDWIDTH READINGS OF CURRENT WITH HARMONICS SHALL BE USED. NOTIFY THE ARCHITECT OF ANY OVERLOAD CONDITIONS IN WRITING WITHIN 5 WORKING DAYS.
 4. WORK SHALL BE NEAT IN APPEARANCE; PLUMB, LEVEL AND TRUE. ANY WORK DEEMED UNSATISFACTORY BY THE ARCHITECT SHALL IMMEDIATELY BE REMOVED AND REPLACED.

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COA EXP: 06/30/2022

SHEAR STRUCTURAL

STRUCTURAL ENGINEERING

DocuSigned by
Matthew J. Dindo
REGISTERED PROFESSIONAL ENGINEER
No. 039810
Signed on 07/15/2021 using a Digital Signature

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ELECTRICAL SPECIFICATIONS

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LUMINAIRE SCHEDULE															
TYPE	MANUFACTURER	MODEL	SOURCE INFORMATION				ELECTRICAL INFORMATION				MOUNTING	FINISH	DESCRIPTION	NOTES	ALTERNATE MANUFACTURER
			TYPE	MIN CRI	LUMEN OUTPUT	COLOR TEMP (K)	VOLTAGE	LOAD (W)	LOAD (W/FT)	POWER SOURCE					
R1	PRUDENTIAL	P23-PER-REG3-LED35-LO-LE NGTH-TMW-SAL-D1-WTW-SC-X7-DM01	LED	80	400/FT	3500K	UNV		4	0-10V DIMMING DRIVER TO 1%	CEILING, RECESSED	TEXTURED MATTE WHITE	RECESSED LINEAR LED, NOMINAL 2" APERTURE WITH 3" REGRESS, SATIN ACRYLIC DIRECT LENS, TRIMLESS MUD-OVER CONCEALED FLANGE. MAX RECESS DEPTH 10 3/8"	1, 2, 3, 4, 5	
R2	MARK ARCHITECTURAL LIGHTING	WHSPER-1X4-4800LM-35K-8 0CRI-MIN1-ZT-MVOLT-SWC	LED	80	4100	3500K	UNV	48		0-10V DIMMING DRIVER	CEILING, RECESSED	WHITE	1' X 4' ARCHITECTURAL TROFFER LED.	1, 2, 3, 4, 5	
R2E	MARK ARCHITECTURAL LIGHTING	WHSPER-1X4-4800LM-35K-8 0CRI-MIN1-ZT-MVOLT-SWC-E10WLCP											SAME AS TYPE 'R2' EXCEPT PROVIDE WITH 90-MINUTE EGRESS BATTERY PACK. LUMINAIRE SHALL OPERATE WITH OTHERS ON THE SAME ZONE, AND ILLUMINATE UPON LOSS OF NORMAL POWER.		
R3	PRUDENTIAL	BPRO3-REC-FLSH-LED35-SO-6-TMW-SAL-SC-UNV-DM01	LED	80	640/FT	3500K	UNV		6	0-10V DIMMING DRIVER	CEILING, RECESSED	TEXTURED MATTE WHITE	3" WIDE RECESSED LINEAR LED, NOMINAL 6' LENGTH, SATIN ACRYLIC DIRECT LENS, MAX RECESS DEPTH 4"		
R3E									6				SAME AS TYPE "R3", EXCEPT WITH EMERGENECY BATTERY BALLAST RATED FOR 90 MINUTES. LUMINAIRE SHALL OPERATE WITH OTHERS ON THE SAME ZONE, AND ILLUMINATE UPON LOSS OF NORMAL POWER.		
S1	FLUXWERX	TC1-S-05-S-J1-BB-W1-8-35-A-E1-M	LED	80	1300	3500K	UNV	8		0-10V DIMMING DRIVER TO 1%	CEILING, SURFACE	BLACK	SURFACE MOUNTED LED, 5.66" DIAMETER X 5.11" HIGH, WIDE 65 DEGREE BEAM WITH CIRCULAR ANIDOLIC OPTRICAL STRUCTURE.	2, 3, 5	
S1E	FLUXWERX	TC1-S-05-S-J1-BB-W1-8-35-A-E1-M											SAME AS TYPE 'S1' EXCEPT PROVIDE WITH 90-MINUTE EGRESS BATTERY PACK. LUMINAIRE SHALL OPERATE WITH OTHERS ON THE SAME ZONE, AND ILLUMINATE UPON LOSS OF NORMAL POWER.	2, 3, 5	
S2	FLUXWERX	TC1-S-09-S-J1-BB-W1-8-35-B-E1-M	LED	80	1800	3500K	UNV	12		0-10V DIMMING DRIVER TO 1%	CEILING, SURFACE	BLACK	SURFACE MOUNTED LED, 9.27" DIAMETER X 5.11" HIGH, WIDE 65 DEGREE BEAM WITH CIRCULAR ANIDOLIC OPTRICAL STRUCTURE.	2, 3, 5	
S3	VODE	707-Z2-SL-4'-48-MOUNTING-0-REMOTE POWER-AE-2-0-Z-SO-35-D4-0-WH-0	LED	80	902/FT	3500K	UNV		6.6	0-10V DIMMING DRIVER TO 1%	CEILING, SURFACE	WHITE	SURFACE MOUNTED LINEAR LED, 1.38" W X .31" H X 4' L, HIGH LUMEN WITH MICROBAFFLE OPTICS, EXTRUDED AND MACHINED 6063 ALUMINUM.	2, 3, 5	
S4	PRUDENTIAL	BIO-LIN-LED35-MO-LENGTH-YBK-AWW-D1G-SC-UNV-SUR-X3-DM01	LED	80	600/FT	3500K	UNV		6	0-10V DIMMING DRIVER TO 1%	CEILING, SURFACE	MATTE BLACK	SURFACE MOUNTED LINEAR LED, 4 7/16" W X 4 7/8" H X LENGTH AS SHOWN ON PLANS, WALL GRAZE OPTICS.	2, 3, 4, 5	
X1	LIGHTALARMS	6UENRM	LED				UNV	5			CEILING OR PENDANT	RED LETTERS	DECORATIVE EDGE LIT ACRYLIC PANEL EXIT SIGN WITH RED LETTERS AND MIRROR BACKGROUND, UNIVERSAL ARROWS, AND RECESSED MOUNTING. LUMINAIRE SHALL COMPLY WITH NFPA 101-2018 SECTION 7.10. VISIBLE LED LAMPS ARE NOT ACCEPTABLE. PROVIDE WITH 90-MINUTE EGRESS BATTERY PACK.		
Y1	OCL	KY1-P1FK-36-MW-FINISH-LE D1-30K-ND-UNV-48-DM1	LED	80+	550	3000K	UNV	6		0-10V DIMMING DRIVER TO 1%	CEILING, SURFACE	SUBMIT FULL COLOR RANGE FOR ARCHITECT'S SELECTION.	CEILING MOUNTED DECORATIVE LED, NOMINAL 36" DIAMETER, FROSTED WHITE ACRYLIC DIFFUSER WITH SOUND ABSORBING ACOUSTIC FINS. SEE ARCHITECTURAL SECTIONS AND ELEVATIONS FOR MOUNTING HEIGHTS.	2, 3, 5	

LUMINAIRE SCHEDULE NOTES:

- CONTRACTOR TO VERIFY RECESS DEPTH WILL FIT.
- CONTRACTOR SHALL VERIFY ALL CATALOG CODES WITH WRITTEN AND DRAWN DESCRIPTIONS.
- CONTRACTOR TO SUPPLY REQUIRED DRIVERS AND TRANSFORMERS WHICH ARE FULLY COMPATIBLE WITH THE CONTROL SYSTEM.
- DETAILED SHOP DRAWING IS REQUIRED FOLLOWING APPROVAL OF LUMINAIRE SUBMITTAL.
- ARCHITECT TO VERIFY FIXTURE FINISHES.
- ARCHITECT TO VERIFY CEILING OF CEILING MATERIALS AND THICKNESS FOR FIXTURE TRIM COORDINATION.

LUMINAIRE FIXTURE NOTES:

- CONTRACTOR SHALL PRICE AS SPECIFIED AND MUST PROVIDE "CONTRACTOR NET" UNIT PRICING FOR EACH SPECIFIED FIXTURE. UNIT PRICING SHALL BE FOR EQUIPMENT ONLY AND NOT INCLUDE INSTALLATION OR MISCELLANEOUS ELECTRICAL COSTS. THE UNIT PRICE SHALL BE GUARANTEED FOR THE PROJECT AND VALID FOR ADDITIONS AND DELETIONS THROUGHOUT THE DURATION OF THE PROJECT. FAILURE TO PROVIDE THIS COST BREAKDOWN, WILL RESULT IN THE DESIGN TEAM UNABLE TO ASSESS OR REVIEW COSTS AND/OR COST REDUCTION OPPORTUNITIES.
- "DISTRIBUTOR NET" PRICING WILL BE SECURED FOR ALL SPECIFIED FIXTURES TO BE USED IN THE PREPARATION OF PROBABLE COST. A CONFIDENTIAL RECORD OF SPECIFIC UNIT COSTS MAY BE SHARED WITH THE OWNER TO ASSIST WITH A COST ANALYSIS.
- CONTRACTOR SHALL PROVIDE SEPARATE PRICING FOR LIGHTING AND LIGHTING CONTROLS.
- EQUIPMENT AND MATERIALS, EXCEPT AS OTHERWISE SPECIFIED HEREIN, SHALL BE NEW AND OF THE CUSTOMARY STANDARD AND QUALITY FURNISHED BY THE DESIGNATED MANUFACTURER FOR THAT CATALOG NUMBER.
- MATERIALS AND EQUIPMENT SHALL BE UL LISTED, SHALL MEET UL REQUIREMENTS, AND SHALL BEAR THE UL OR UL EQUIVALENT LABEL. WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY UL.
- CONTRACTOR SHALL PROVIDE APPROVED FIRE RATED ENCLOSURES FOR ALL LIGHTING FIXTURES LOCATED IN A FIRE RATED CEILING.
- PROVIDE MOUNTING FRAME AND RELATED ACCESSORIES FOR ALL FIXTURES AS REQUIRED TO MATCH CEILING CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT CEILING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MODIFICATION OF FIXTURE SCHEDULE MANUFACTURER'S PART NUMBERS FOR PURPOSES OF MATCHING CEILING CONSTRUCTION.

SUBSTITUTION/VALUE ENGINEERING:

- THE LIGHTING DESIGN FOR THIS PROJECT IS BASED ON LIGHTING EQUIPMENT TYPES AND MANUFACTURERS SPECIFIED. IF SUBSTITUTION/VALUE ENGINEERING OF LIGHTING EQUIPMENT OR MATERIALS IS DESIRED, THE FOLLOWING ITEMS MUST BE PROVIDED AND SUBMITTED 14 DAYS PRIOR TO BID DATE. FAILURE TO SUBMIT WITHIN THAT DEADLINE CONSTITUTES A GUARANTEE THAT THE SPECIFIED FIXTURES WILL BE SUPPLIED. SUBMITTING FIXTURES NOT MEETING THESE REQUIREMENTS WILL BE REJECTED AND THE CONTRACTOR MUST PROVIDE THE SPECIFIED FIXTURES WITH NO INCREASE IN COST.
 - SUBMIT A COPY OF THE SUBSTITUTION/VALUE ENGINEERING FIXTURES/PACKAGE AND PROVIDE THE FOLLOWING FOR BOTH THE SPECIFIED PRODUCT AND THE PROPOSED SUBSTITUTION/VALUE ENGINEERED PRODUCT:
 - MANUFACTURER'S DATA AS DEFINED IN THE SUBMITTAL SECTION.
 - PROVIDE "CONTRACTOR NET" UNIT PRICING FOR THE SPECIFIED FIXTURES AND THE PROPOSED SUBSTITUTION/VALUE ENGINEERED FIXTURE. CONTRACTOR MUST ALSO SHOW HOW THE EQUIPMENT SAVINGS AND INSTALL SAVINGS ARE DERIVED.
 - IF REQUESTED BY THE LIGHTING DESIGNER, A NON-RETURNABLE, OPERATING SAMPLE OF THE PROPOSED SUBSTITUTION/VALUE ENGINEERED FIXTURE. NO PAYMENT SHALL BE REQUIRED FOR SAMPLES. SAMPLES SHALL BE SUPPLIED WITH THE SPECIFIED LAMPING, DIMMING, ACCESSORIES AND STANDARD CORD AND PLUG FOR 120 VOLT OPERATION.
 - PROVIDE A DETAILED COMPARISON OF SIGNIFICANT QUALITIES OF THE PROPOSED FIXTURE WITH THOSE OF THE SPECIFIED PRODUCT. SIGNIFICANT QUALITIES MAY INCLUDE ELEMENTS SUCH AS PHOTOMETRY, HOUSING DIMENSIONS, MATERIAL COMPOSITION AND FINISH, AND VISUAL APPEARANCE.
 - CONTRACTOR MUST PROVIDE LIGHTING CALCULATIONS FOR THE SPACES BEING CONSIDERED, DEMONSTRATING THAT THE PROPOSED FIXTURE(S) MEET(S) OR EXCEEDS THAT OF THE SPECIFIED PRODUCT(S). CONTRACTOR MUST ALSO INCLUDE COMPARISON SUMMARIES OF THE LIGHT LEVELS FOR THOSE SPACES.
 - PROVIDE A STATEMENT INDICATING THE SUBSTITUTION/VALUE ENGINEERED EFFECT ON THE CONTRACTOR'S CONSTRUCTION SCHEDULE COMPARED TO THE SCHEDULE WITHOUT APPROVAL OF THE SUBSTITUTION. INDICATE THE EFFECT OF THE PROPOSED SUBSTITUTION/VALUE ENGINEERED PRODUCT ON OVERALL CONTRACT TIME.
 - PROVIDE THE CONTRACTOR'S CERTIFICATION THAT THE PROPOSED SUBSTITUTION/VALUE ENGINEERED PRODUCT CONFORMS TO THE REQUIREMENTS IN THE CONTRACT DOCUMENTS IN EVERY RESPECT AND IS APPROPRIATE FOR THE APPLICATION INDICATED.
 - PROVIDE THE CONTRACTOR'S WAIVER OF RIGHTS TO ADDITIONAL PAYMENT OR TIME THAT MAY SUBSEQUENTLY BECOME NECESSARY BECAUSE OF THE FAILURE OF THE SUBSTITUTION/VALUE ENGINEERED PRODUCT TO PERFORM ADEQUATELY.
 - FAILURE TO PROVIDE THE ABOVE ITEMS WILL RESULT IN NOT REVIEWING THE PROPOSED SUBSTITUTION/VALUE ENGINEERED PRODUCTS.
- MODIFICATIONS REQUIRED TO ANY BUILDING EQUIPMENT OR SYSTEM DUE TO THE SUBSTITUTION/VALUE ENGINEERING OF A FIXTURE TYPE SHALL BE DESIGNED AND CONSTRUCTED AT THE CONTRACTOR'S EXPENSE.

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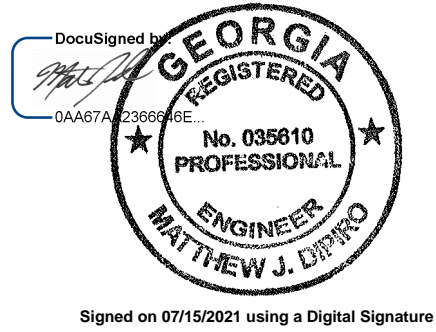
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CHERRY EMERSON GRAD. OFFICE & LOBBY RENOVATION

CHERRY EMERSON BUILDING
310 FERST DRIVE
ATLANTA, GA 30332

OWNER PROJECT NO.
0255-2021
PROJECT NO. 2021029

ISSUE DATE 07.14.21
ISSUED FOR CONSTRUCTION

REVISIONS DATE

ELECTRICAL SCHEDULES

SCALE

E.002

1 ELECTRICAL - LEVEL ONE FLOOR PLAN - ADD/ALT
SCALE: 1/16" = 1'-0"

2 ELECTRICAL - LEVEL TWO FLOOR PLAN - ADD/ALT
SCALE: 1/16" = 1'-0"

3 ELECTRICAL - LEVEL THREE FLOOR PLAN - ADD/ALT
SCALE: 1/16" = 1'-0"

DEDUCT ALTERNATE NOTES (THIS SHEET)

THE FOLLOWING SCOPE SHALL BE INCLUDED IN THE BASE BID, WITH A LINE ITEM FOR DEDUCTIVE ALTERNATE MADE AVAILABLE TO THE OWNER:

1. PROVIDE CEILING MOUNTED DUPLEX RECEPTACLE FOR TV MONITOR AT EACH LOCATION ON FLOOR PLANS. PROVIDE DEDICATED CIRCUIT FOR TWO (2) DUPLEX RECEPTACLES AND HOMERUN WITH 2#10 AND #10G IN 0.75'C TO NEAREST EXISTING PANELBOARD WITH A 20A/1P SPARE CIRCUIT BREAKER OR POLE SPACE. PROVIDE NEW 20A/1P CIRCUIT BREAKER AND MATCH EXISTING TYPE AND RATING.

PROVIDE JUNCTION BOX ABOVE CEILING FOR FUTURE DATA OUTLET AND 1'C TO NEAREST DATA CLOSET.

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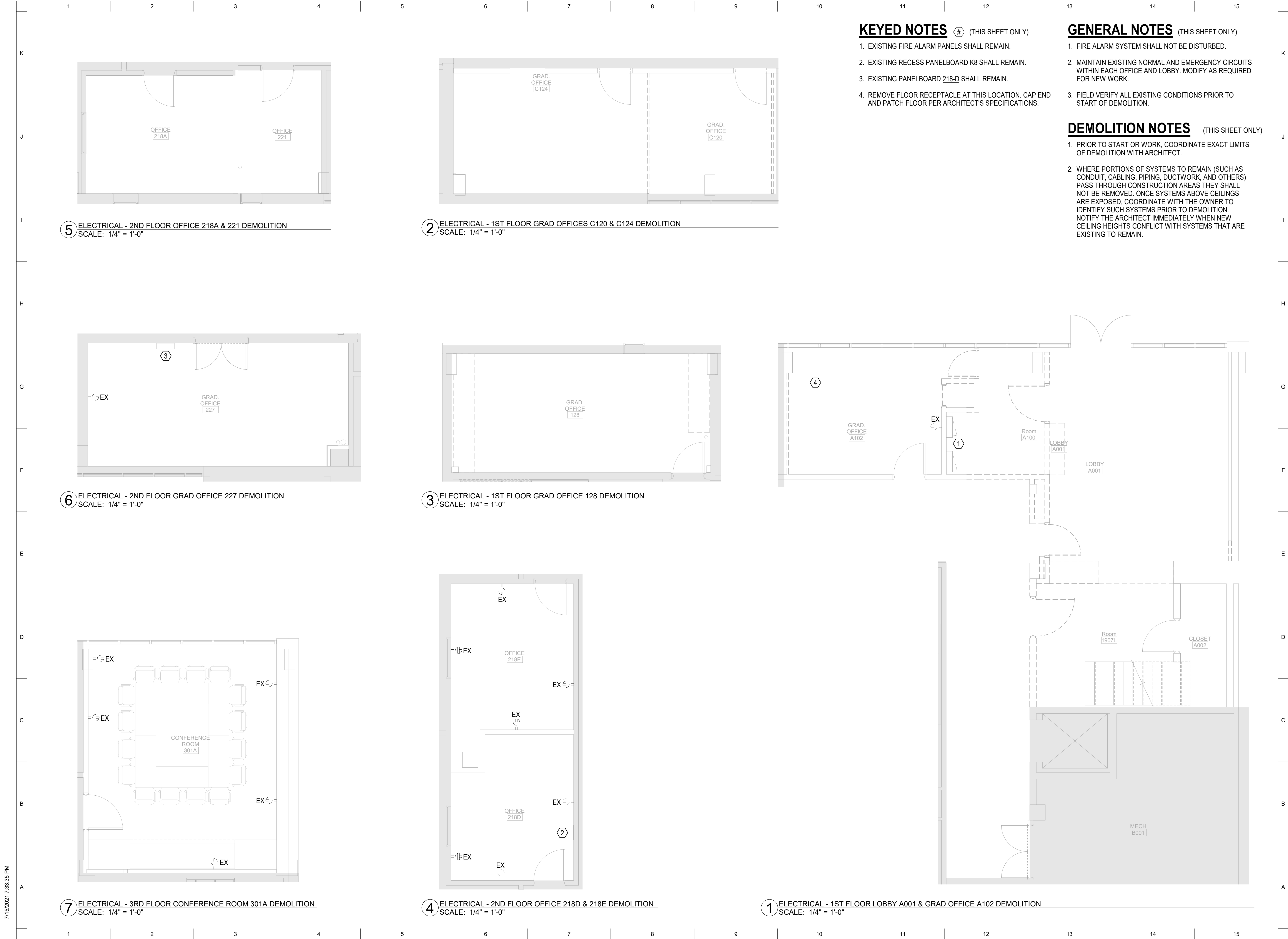
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Matthew J. Dwyer
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KEYED NOTES (#) (THIS SHEET ONLY)

1. EXISTING FIRE ALARM PANELS SHALL REMAIN.
2. EXISTING RECESS PANELBOARD K8 SHALL REMAIN.
3. EXISTING PANELBOARD 218-D SHALL REMAIN.
4. REMOVE FLOOR RECEPTACLE AT THIS LOCATION. CAP END AND PATCH FLOOR PER ARCHITECT'S SPECIFICATIONS.

GENERAL NOTES (THIS SHEET ONLY)

1. FIRE ALARM SYSTEM SHALL NOT BE DISTURBED.
2. MAINTAIN EXISTING NORMAL AND EMERGENCY CIRCUITS WITHIN EACH OFFICE AND LOBBY. MODIFY AS REQUIRED FOR NEW WORK.
3. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF DEMOLITION.

DEMOLITION NOTES (THIS SHEET ONLY)

1. PRIOR TO START OR WORK, COORDINATE EXACT LIMITS OF DEMOLITION WITH ARCHITECT.
2. WHERE PORTIONS OF SYSTEMS TO REMAIN (SUCH AS CONDUIT, CABLING, PIPING, DUCTWORK, AND OTHERS) PASS THROUGH CONSTRUCTION AREAS THEY SHALL NOT BE REMOVED. ONCE SYSTEMS ABOVE CEILINGS ARE EXPOSED, COORDINATE WITH THE OWNER TO IDENTIFY SUCH SYSTEMS PRIOR TO DEMOLITION. NOTIFY THE ARCHITECT IMMEDIATELY WHEN NEW CEILING HEIGHTS CONFLICT WITH SYSTEMS THAT ARE EXISTING TO REMAIN.



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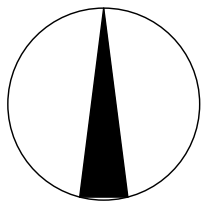
CHERRY EMERSON GRAD. OFFICE & LOBBY RENOVATION

CHERRY EMERSON BUILDING
310 FERST DRIVE
ATLANTA, GA 30332

OWNER PROJECT NO.
0255-2021

PROJECT NO. 2021029

TRUE NORTH



ISSUE DATE 07.14.21
ISSUED FOR CONSTRUCTION

REVISIONS DATE

ELECTRICAL - LEVELS 1, 2 & 3 DEMOLITION PLANS

SCALE 1/4" = 1'-0"

E.021

KEYED NOTES

(THIS SHEET ONLY)

- CONNECT NEW LUMINAIRES TO EXISTING LIGHTING CIRCUIT SERVING THIS ROOM.
- PROVIDE NEW 120V- 20A CIRCUIT FOR NEW POKE-THRU DEVICES. HOMERUN TO NEAREST EXISTING 120V PANELBOARD WITH AVAILABLE 20A/1P SPARE OR POLE SPACE. IF POLE SPACE AVAILABLE, PROVIDE NEW 20A/1P CIRCUIT BREAKER MATCHING TYPE AND RATING.
- SWITCHED RECEPTACLE SHALL BE CONTROLLED THRU OCCUPANCY SENSOR. SEE DETAIL #1 ON SHEET E.201.
- PROVIDE NEW 120V- 20A CIRCUIT FOR NEW WIRING DEVICES. HOMERUN TO EXISTING PANELBOARD 218-D. TO AVAILABLE 20A/1P SPARE OR POLE SPACE. IF POLE SPACE AVAILABLE, PROVIDE NEW 20A/1P CIRCUIT BREAKER MATCHING TYPE AND RATING.
- PROVIDE NEW 120V- 20A CIRCUIT FOR NEW WIRING DEVICES. HOMERUN TO NEAREST EXISTING PANELBOARD TO AVAILABLE 20A/1P SPARE OR POLE SPACE. IF POLE SPACE AVAILABLE, PROVIDE NEW 20A/1P CIRCUIT BREAKER MATCHING TYPE AND RATING.

(THIS SHEET ONLY)

- CONNECT TYPE 'S1' TO EXISTING CORRIDOR NORMAL AND EMERGENCY CIRCUITS, PER FLOOR PLAN.
- PROVIDE 120V 20A CIRCUIT FOR NEW TERMINAL UNIT CONTROL POWER ON LEVEL 1. COORDINATE FINAL REQUIREMENTS AND EXTEND CIRCUITRY AS REQUIRED BY THE CONTROLS CONTRACTOR. REFER TO MECHANICAL SHEETS FOR TERMINAL UNIT LOCATIONS.
- CONNECT TO EXISTING STAIRWELL LIGHTING CIRCUIT.
- TYPICAL OF THREE(3); EXIT SIGNS SHALL NOT BE SWITCHED.
- EXPOSED CONDUITS SHALL BE INSTALLED NEAT IN APPEARANCE, ORTHOGONAL TO STURCTURE, PLUMB, LEVEL AND TRUE. ANY WORK DEEMED UNSATISFACTORY BY THE ARCHITECT SHALL IMMEDIATELY BE REMOVED AND REPLACED. PAINT CONDUITS IN EXPOSED CEILING TO MATCH ADJACENT SURROUNDINGS.
- TWO (2) DUPLEX RECEPTACLES AS PART OF A FLATWIRE SYSTEM ALONG BASE OF WALL. PROVIDE JUNCTION BOX AT CORNER OF SOUTH AND EAST WALLS TO TRANSITION TO CONDUIT WITHIN SOUTH WALL. MANUFACTURER: COMMSCOPE.
- JUNCTION BOX FOR AV WALL CONTROLLER. PROVIDE 1" CONDUIT TO OPEN CEILING AND ROUTE TO LOBBY MONITOR LOCATION IN AN ORTHOGNAL MANNER WITH THE WALLS. REVIEW ROUTE WITH ARCHITECT PRIOR TO ROUGH-IN AND COORDINATE FINAL REQUIREMENTS WITH GT OIT.
- FIELD VERIFY FINAL LOCATION WITH OWNER, PRIOR TO ROUGH-IN.
- LUMINAIRE SHALL SWITCH WITH OTHER ON SAME ZONE, BUT ILLUMINATE TO FULL BRIGHTNESS UPON LOSS OF NORMAL POWER. PROVIDE UL-LISTED TRANSFER FOR SHUNT DEVICE FOR SUCH OPERATION.

GENERAL NOTES

(THIS SHEET ONLY)

- PRIOR TO START OF WORK, CONFIRM NUMBER OF SPARE 20A/1P CIRCUIT BREAKERS AND THOSE MADE SPARE BY DEMOLITION. CONFIRM ADEQUATE NUMBER OF CIRCUIT BREAKERS EXISTS FOR NEW WORK AS SCHEDULED.
- PROVIDE NEW RECEPTACLES AND FACE PLATES FOR EXISTING LOCATIONS SHOWN ON THIS SHEET. PROVIDE PER SPECIFICATIONS.
- MINIMUM BRANCH CIRCUIT WIRING IS 2#12 AND #12G. IN 0.75". PROVIDE #10 AWG CONDUCTORS FOR BRANCH CIRCUITS OVER 75' IN LENGTH.
- HOMERUN POWER BRANCH CIRCUITS TO NEAREST EXISTING 120V PANELBOARD WITH AVAILABLE 20A/1P SPARE OR POLE SPACE. IF POLE SPACE AVAILABLE, PROVIDE NEW 20A/1P CIRCUIT BREAKER MATCHING TYPE AND RATING.
- FOR DOUBLE DUPLEX RECEPTACLES INDICATED TO BE SWITCHED, ONE DUPLEX RECEPTACLE SHALL BE SWITCHED AND THE SECOND DUPLEX RECEPTACLE SHALL NOT BE SWITCH.
- PROVIDE PERMANENT MARKINGS FOR RECEPTACLES TO BE SWITCHED, PER NEC.
- FOR WIRING DEVICES LOCATED ON CMU WALLS PROVIDE DUAL-CHANNEL SURFACE METAL RACEWAY(SMR) ALONG ENTIRE LENGTH OF WALL. TOP CHANNEL SHALL BE DEDICATED FOR 120V POWER AND BOTTOM CHANNEL SHALL BE DEDICATED FOR LOW VOLTAGE WIRING. WIREMOLD DUAL CHANNEL 4000 SERIES.

MAY
ARCHITECTURE

1175 PEACHTREE STREET NE, SUITE 1800
COLONY SQUARE BUILDING, 100
ATLANTA, GEORGIA 30363 | 404-614-0700
WWW.MAYARCHITECTURE.COM

CONSULTANTS

Newcomb & Boyd

CONSULTANTS AND ENGINEERS
303 Peachtree Center Avenue, NE
Suite 525
Atlanta, Georgia 30303-1277
Georgia Certificate of Authorization:PEF000476
COA EXP: 06/30/2022

SHEAR STRUCTURAL
STRUCTURAL ENGINEERING



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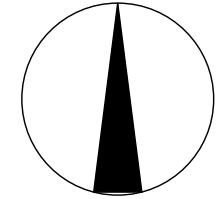
Georgia Institute
of Technology

CHERRY
EMERSON GRAD.
OFFICE & LOBBY
RENOVATION

CHERRY EMERSON BUILDING
310 FERST DRIVE
ATLANTA, GA 30332

OWNER PROJECT NO.
0255-2021
PROJECT NO. 2021029

TRUE NORTH



ISSUE DATE 07.14.21
ISSUED FOR CONSTRUCTION

REVISIONS DATE

ELECTRICAL -
LEVELS 1, 2 & 3
FLOOR PLANS

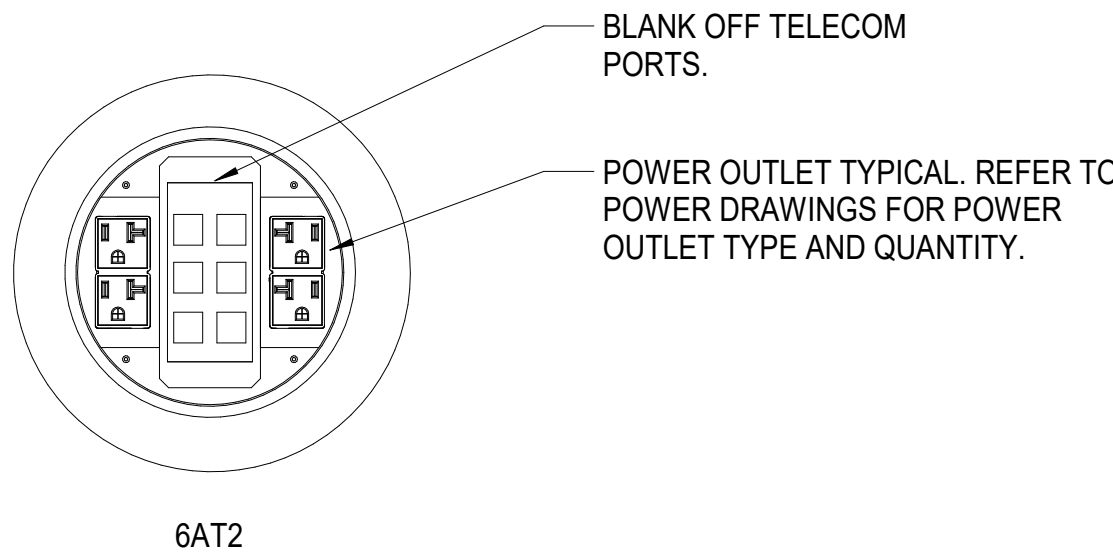
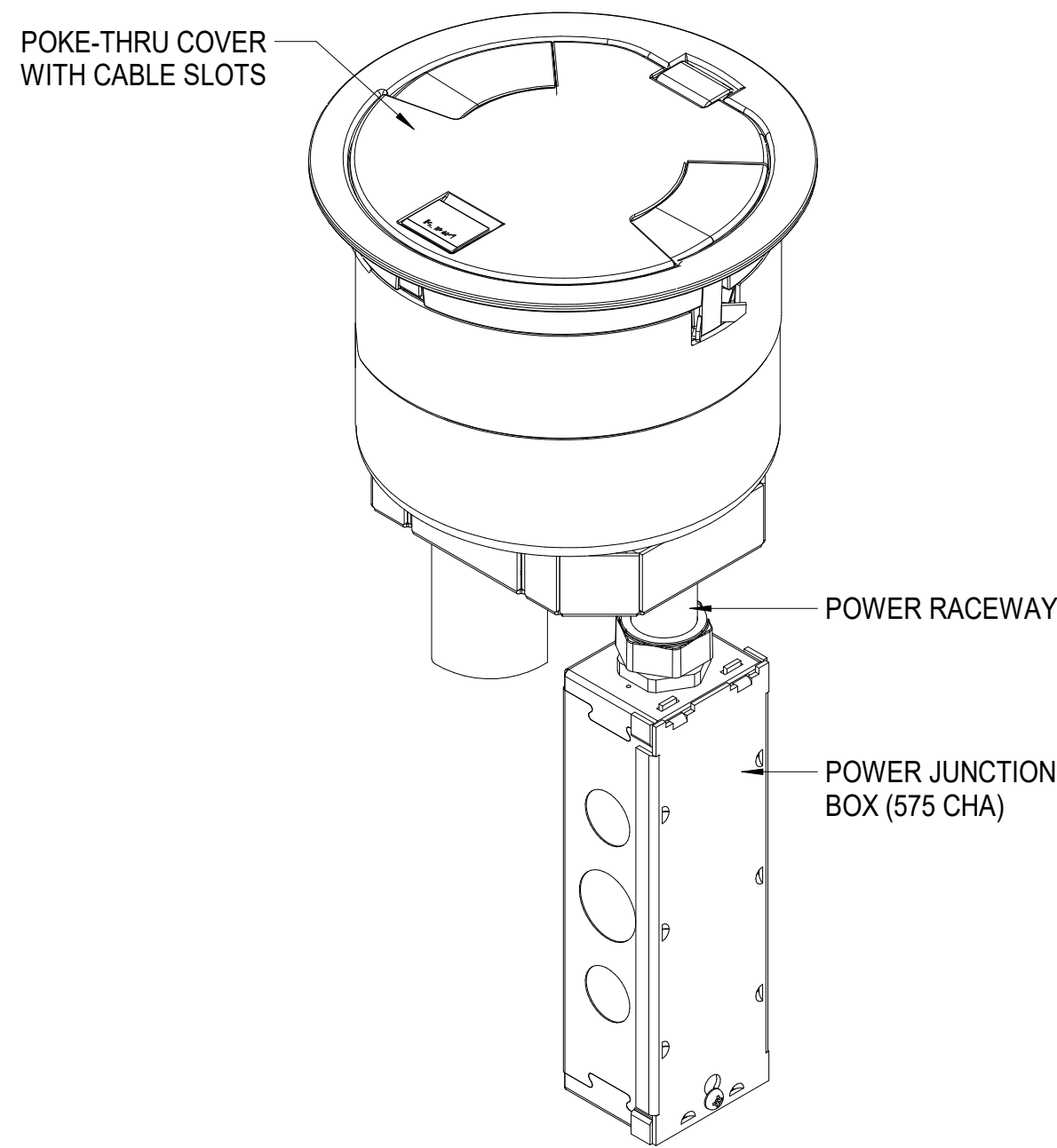
SCALE 1/4" = 1'-0"

E.101

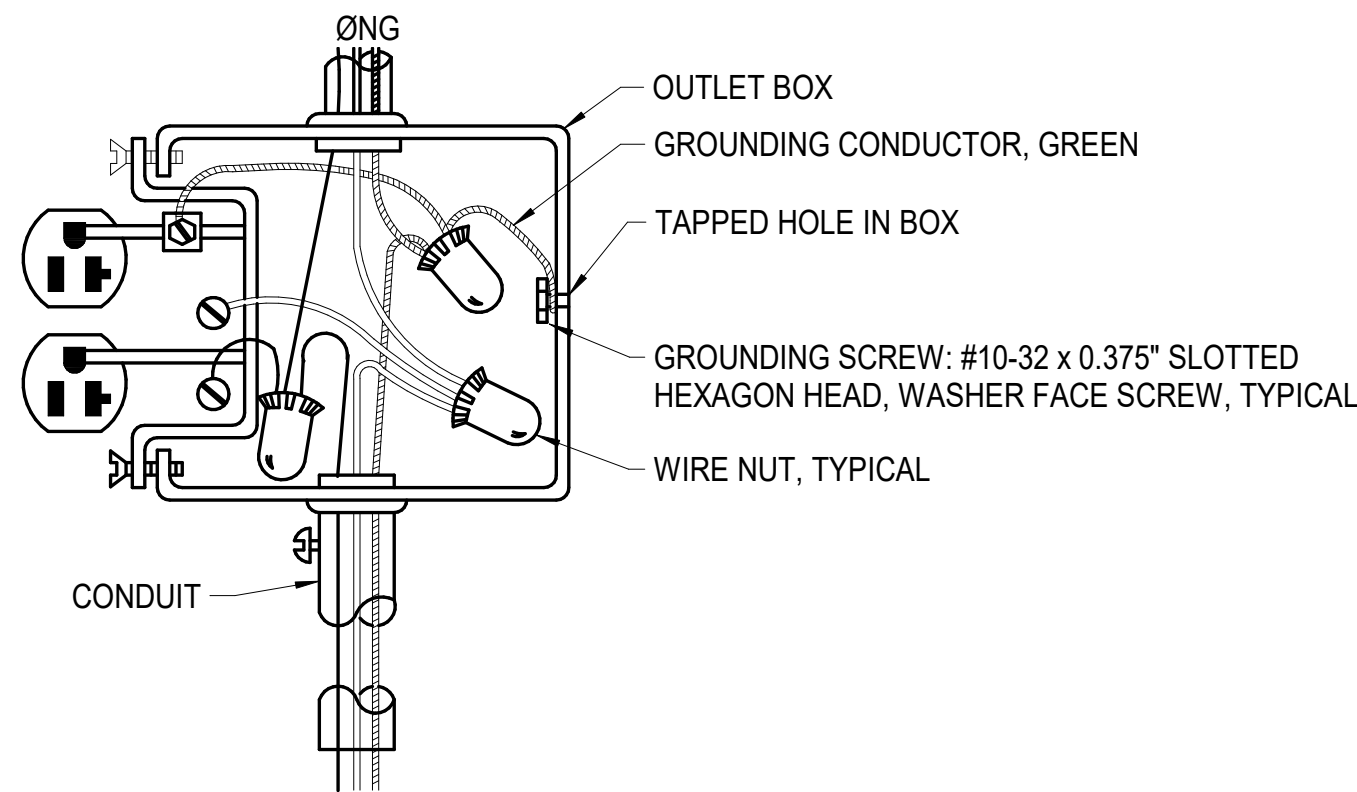
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7/15/2021 7:33:54 PM

2 POKE THRU (WIREMOLD 6AT2)
SCALE: NO SCALE



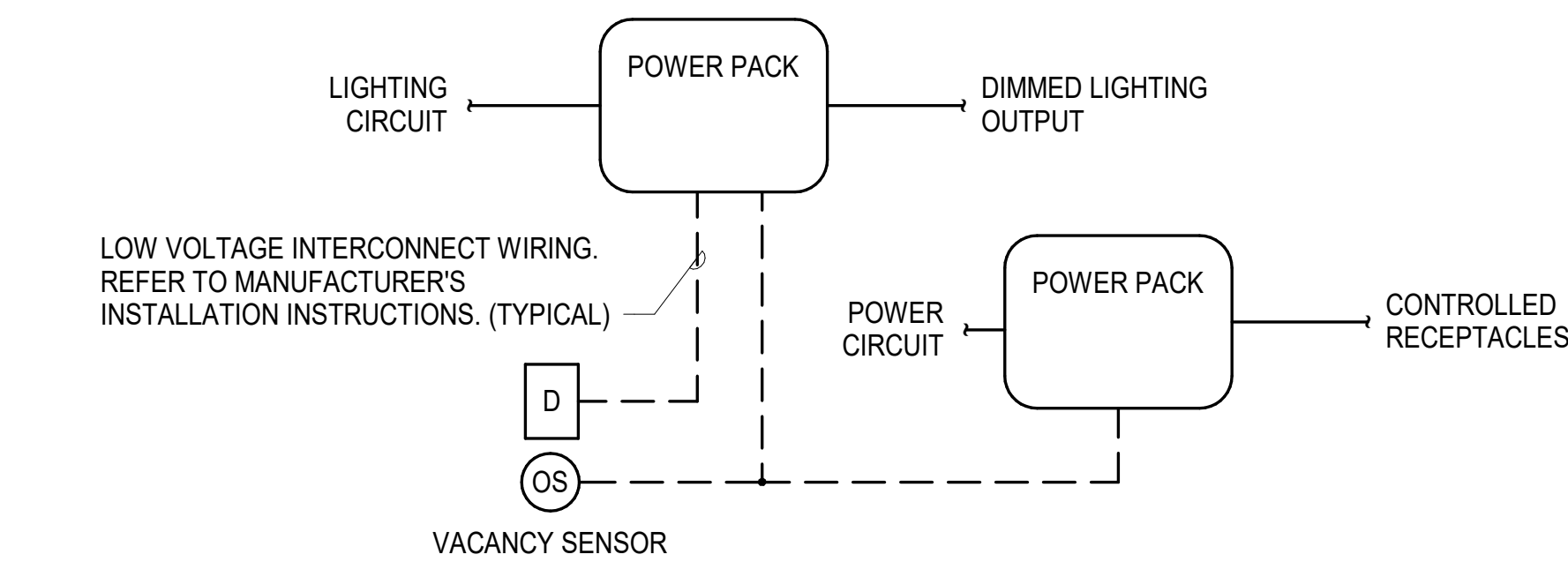
- NOTES: (THIS DETAIL ONLY)**
1. PROVIDE WIREMOLD 6AT2. CONDUITS AS INDICATED.
 2. PROVIDE ALL NECESSARY DEVICE PLATES FOR COMMUNICATIONS, AV AND POWER.
 3. COORDINATE FLOOR BOX COVER COLOR AND FINISH WITH ARCHITECT.
 4. INSTALLATION:
 - A. PROVIDE 1.25" CONDUIT FOR TELECOM ROUTED TO THE NEAREST ACCESSIBLE CEILING SPACE.
 - B. PROVIDE CONDUIT FOR POWER. REFER TO POWER PLANS FOR ADDITIONAL INFORMATION.
 - C. ROUTE CONDUITS BELOW SLAB, UP THROUGH THE NEAREST WALL AND INTO THE NEAREST ACCESSIBLE CEILING SPACE IN THE ROOM. REFER TO FLOOR PLAN FOR MORE INFORMATION.



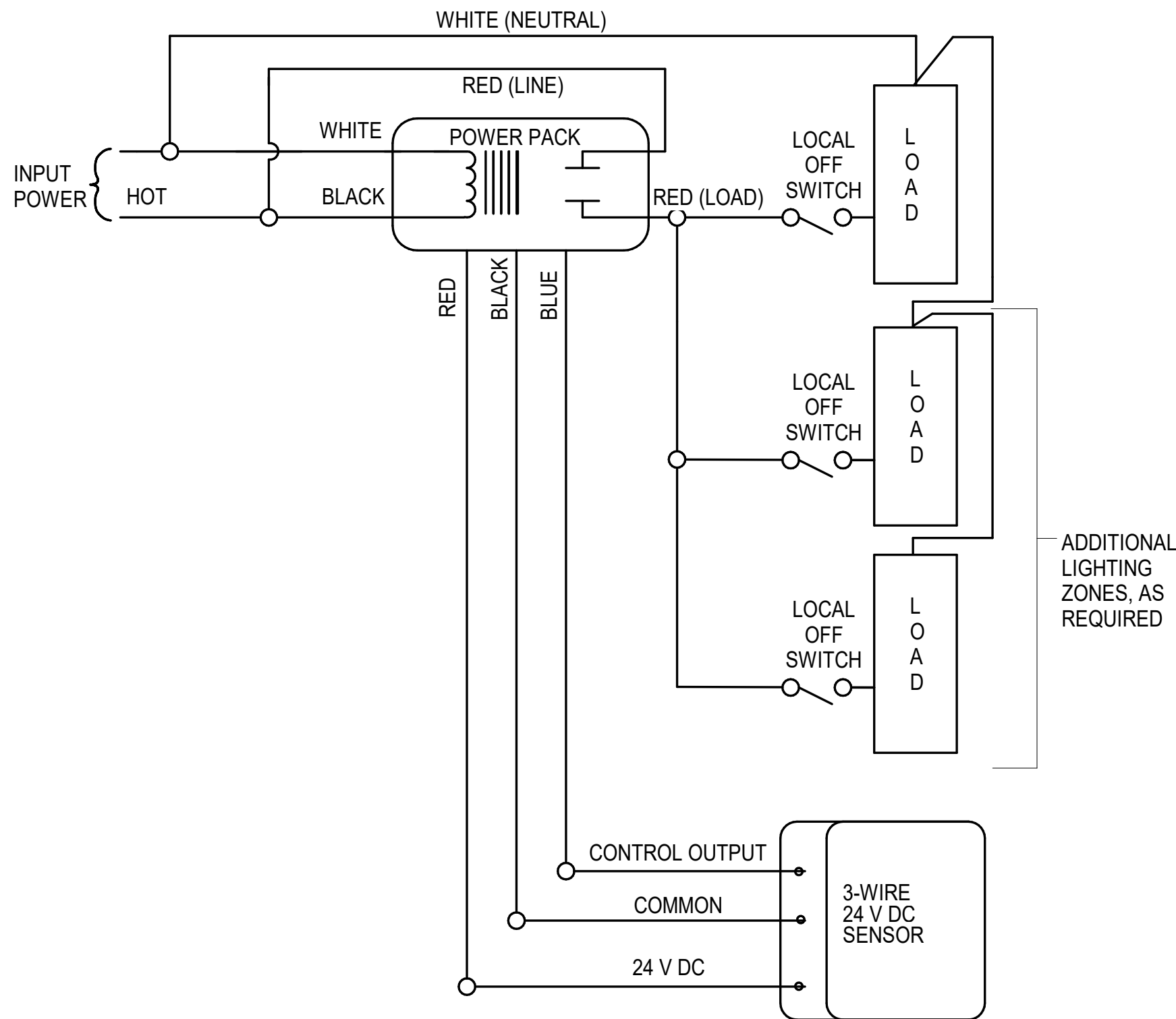
- NOTES:**
1. GROUNDING CONDUCTOR SHALL BE CONTINUOUS SO THAT REMOVAL OF DEVICE WILL NOT INTERFERE WITH CONDUCTOR CONTINUITY.

4 RECEPTACLE WIRING
SCALE: NO SCALE

1 LIGHTING CONTROL LOW VOLTAGE DIMMERS WITH SWITCHED RECEPTACLES
SCALE: NO SCALE



- NOTES:**
1. REFER TO SPECIFICATIONS FOR ACCEPTABLE LIGHTING CONTROL MANUFACTURERS.
 2. POWER PACKS SHALL BE LOCATED ABOVE THE NEAREST ACCESSIBLE CEILING.
 3. REFER TO FLOORPLANS FOR QUANTITY AND LOCATIONS OF SWITCHES. PROVIDE POWER PACKS AS REQUIRED.
 4. POWER PACK AND LOW VOLTAGE DIMMERS SHALL BE COMPATIBLE.
 5. OCCUPANCY SENSOR SHALL ACT AS A "VACANCY SENSOR" (MANUAL ON, AUTOMATIC OFF) AND SHALL AUTOMATICALLY TURN LIGHTING OFF WHEN THE SPACE IS VACANT.



- NOTES:**
1. LIGHTING ZONES SHALL HAVE LOCAL MANUAL OVERRIDE TO OFF. SWITCHES ARE INDICATED ON THE FLOOR PLANS.
 2. POWER PACKS SHALL BE LOCATED IN ACCESSIBLE LOCATIONS.

3 3-WIRE 24 V DC SENSORS
SCALE: NO SCALE

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COLONY SQUARE BUILDING, 100
ATLANTA, GEORGIA 30361 | 404-614-0700
WWW.MAYARCHITECTURE.COM

CONSULTANTS

Newcomb & Boyd

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Suite 525
Atlanta, Georgia 30303-1277
Georgia Certificate of Authorization:PEF000476
COA EXP: 06/30/2022

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STRUCTURAL ENGINEERING



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**CHERRY
EMERSON GRAD.
OFFICE & LOBBY
RENOVATION**

CHERRY EMERSON BUILDING
310 FERST DRIVE
ATLANTA, GA 30332

OWNER PROJECT NO.
0255-2021
PROJECT NO. 2021029

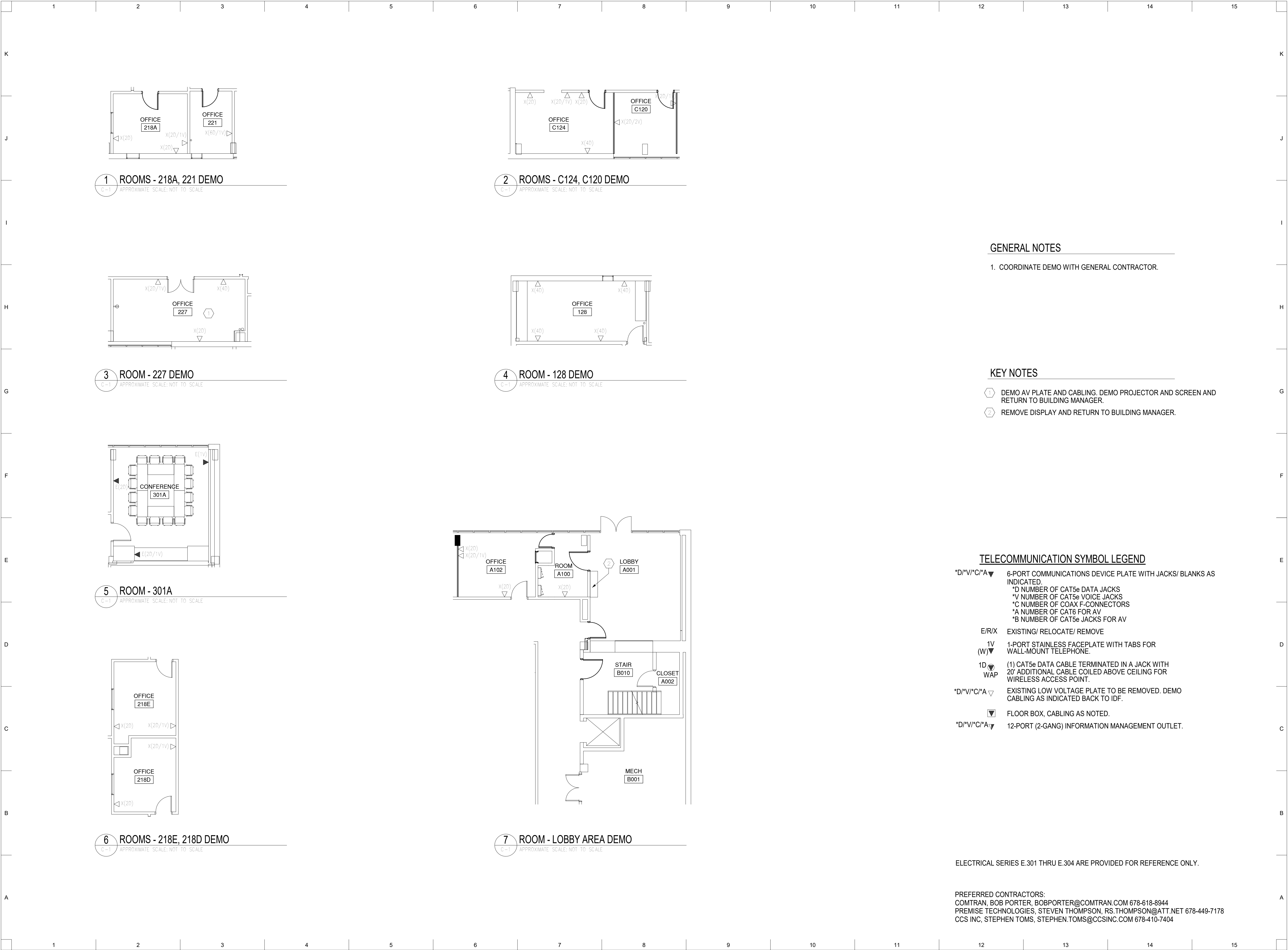
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REVISIONS DATE

ELECTRICAL
DETAILS

SCALE NO SCALE

E.201



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1. PROVIDE 1 X 7 CAT5e PATCH CABLE FOR EACH DATA CABLE INSTALLED. ALSO PROVIDE 1 CAT5e PATCH CABLE TO LENGTH FOR EVERY DATA CABLE IN IDF BETWEEN PATCH PANELS AND NETWORK SWITCH.
2. LABEL EACH END OF ALL AV CABLING PER DIRECTION FROM AV ENGINEER.
3. CABLING TO DISPLAY TO BE ROUTED WITHIN COLUMN MOUNT.

LOBBY CEILING OPEN TO STRUCTURE. CONDUIT BY ELECTRICAL, MINIMUM 1" UNLESS OTHERWISE NOTED.

MOUNT INSTALLED BY GC. ELECTRONICS/DEVICES PROVIDED BY OWNER.MOUNT 65" DISPLAY, MEDIA PLAYER, AND SOLSTICE POD. SEE AV DRAWINGS, COORDINATE WITH AV ENGINEER.

1. ELECTRICAL SHALL PROVIDE AND INSTALL ALL PATHWAYS, BOXES, CONDUITS, SLEEVES, FLOOR BOXES, ETC., FOR TELECOMMUNICATION / AV CABLING. COORDINATE WITH TELECOM, AV, AND OTHER TRADES. STUD CONDUITS ABOVE ACCESSIBLE CEILINGS. MAXIMUM OF (2) 90° BENDS AND (2) OFFSETS (45° OR LESS) BETWEEN PULL BOXES. ALL PULL BOXES SHALL BE LOCATED IN ACCESSIBLE AREAS. DO NOT DAISY CHAIN TELECOM CONDUITS.
2. DUAL CHANNEL 4000 RACEWAY TO BE PROVIDED AND INSTALLED BY ELECTRICIAN WITH CENTER DIVIDER, AND 4050 BRACKET AND 5507-6TJ FACEPLATE PROVIDED FOR LOW VOLTAGE LOCATIONS.
3. FOR WIRELESS ACCESS POINT LOCATION (WAP) ELECTRICIAN TO PROVIDE 0.75" CONDUIT TO A 1900 BOX WITH A SINGLE GANG MUD RING MOUNTED 6"10" ABOVE FINISHED FLOOR.

<p>"D"/"V"/"C" A ▼</p>	<p>6-PORT COMMUNICATIONS DEVICE PLATE WITH JACKS/ BLANKS AS INDICATED.</p> <ul style="list-style-type: none"> *D NUMBER OF CAT5e DATA JACKS *V NUMBER OF CAT5e VOICE JACKS *C NUMBER OF COAX F-CONNECTORS *A NUMBER OF CAT6 FOR AV *B NUMBER OF CAT5e JACKS FOR AV
<p>E/R/X</p>	<p>EXISTING/ RELOCATE/ REMOVE</p>
<p>1V (W) ▼</p>	<p>1-PORT STAINLESS FACEPLATE WITH TABS FOR WALL-MOUNT TELEPHONE.</p>
<p>1D WAP</p>	<p>(1) CAT5e DATA CABLE TERMINATED IN A JACK WITH 20' ADDITIONAL CABLE COILED ABOVE CEILING FOR WIRELESS ACCESS POINT.</p>
<p>"D"/"V"/"C" A ▼</p>	<p>EXISTING LOW VOLTAGE PLATE TO BE REMOVED. DEMO CABLING AS INDICATED BACK TO IDF.</p>
<p>▼</p>	<p>FLOOR BOX, CABLING AS NOTED.</p>
<p>"D"/"V"/"C" A ▼</p>	<p>12-PORT (2-GANG) INFORMATION MANAGEMENT OUTLET.</p>

PREFERRED CONTRACTORS:
COMTRAN, BOB PORTER, BOBPORTER@COMTRAN.COM 678-618-8944
PREMISE TECHNOLOGIES, STEVEN THOMPSON, RS.THOMPSON@ATT.NET 678-449-7178
CCS INC, STEPHEN TOMS, STEPHEN.TOMS@CCSINC.COM 678-410-7404

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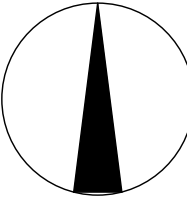
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ATLANTA, GA 30332

OWNER PROJECT NO

0255-2021

PROJECT NO. 2021029

TRUE NORTH



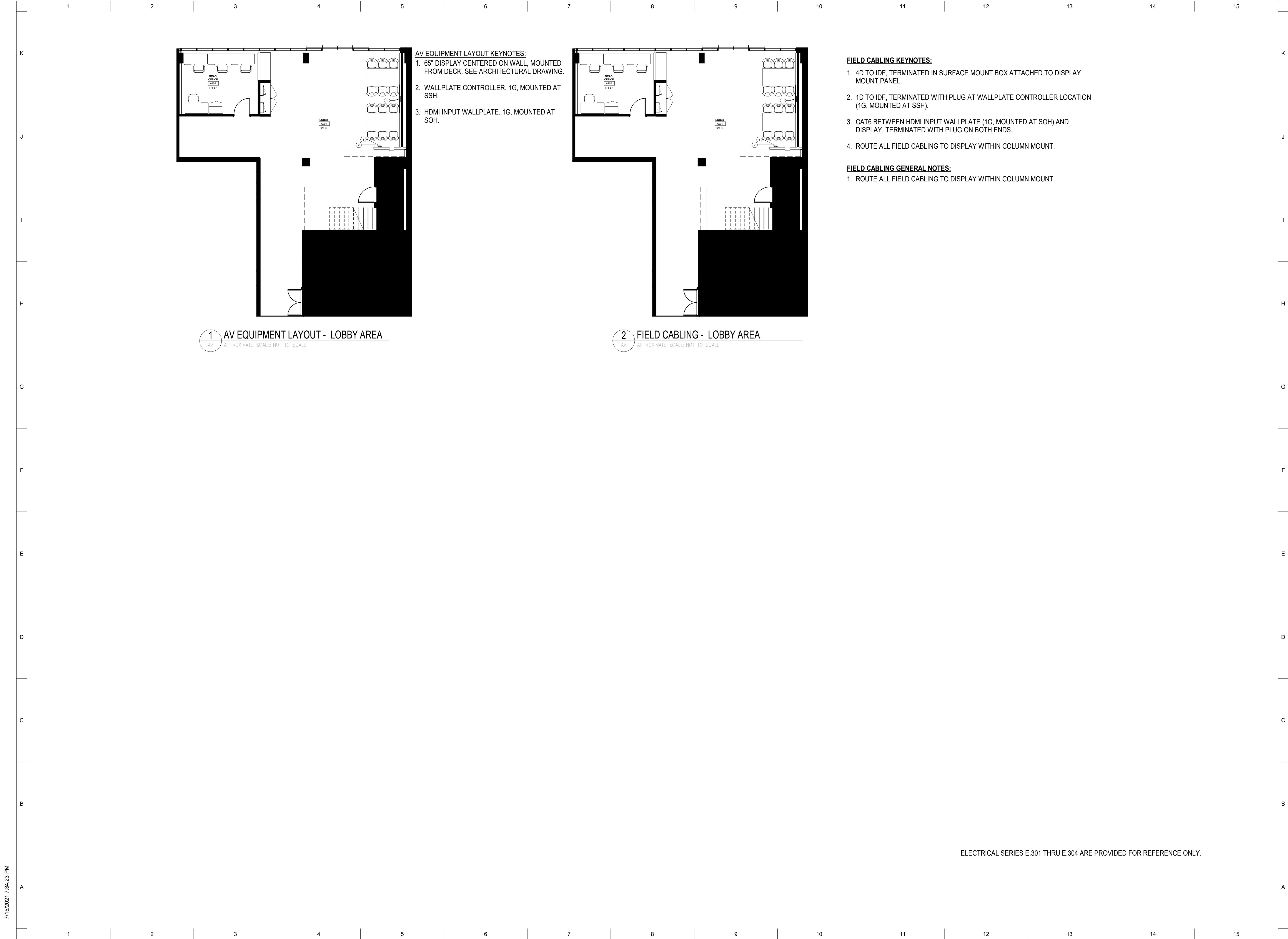
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SSUED FOR CONSTRUCTION

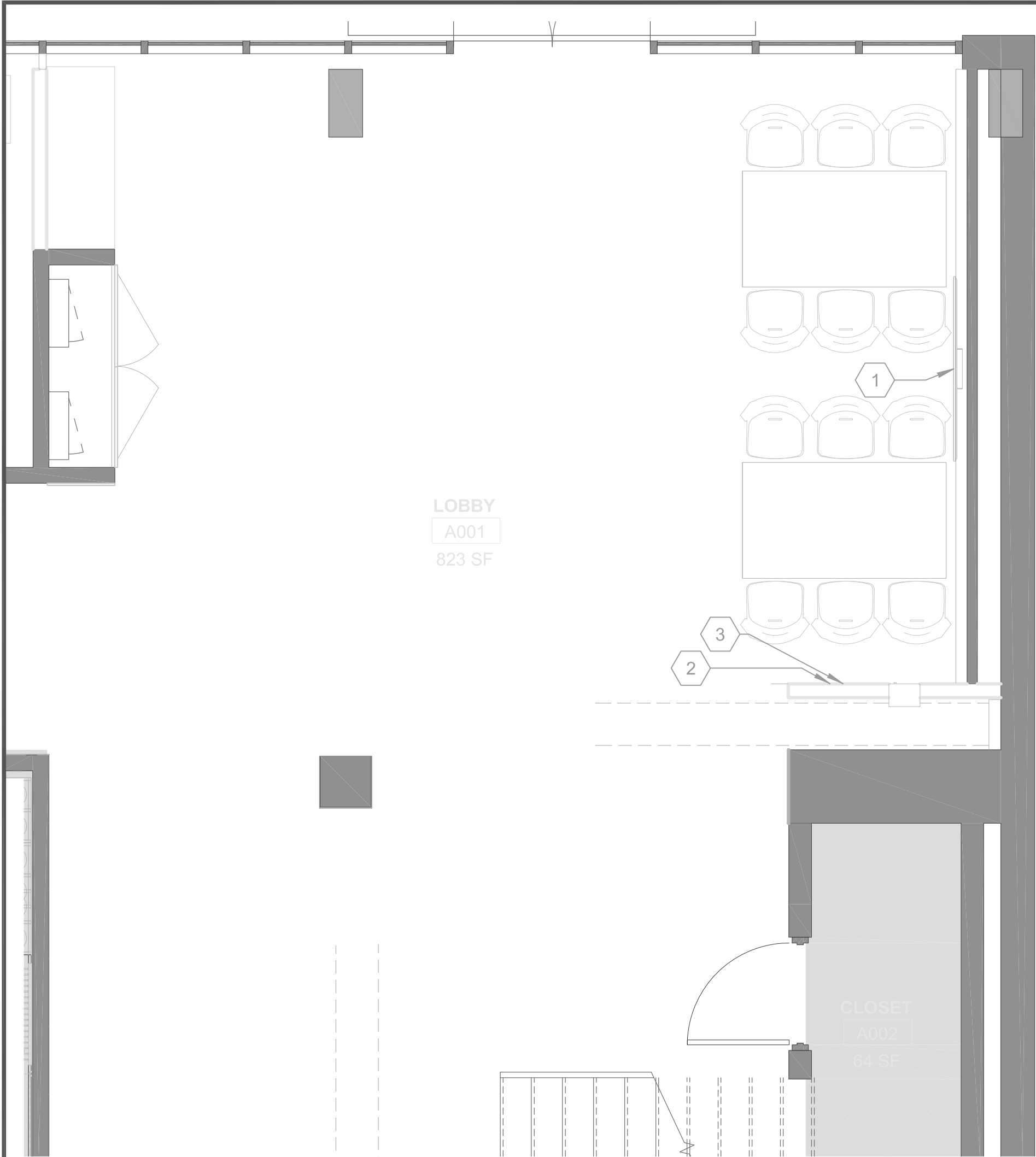
REVISIONS	DATE
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LOW VOLTAGE - LEVELS 1, 2 & 3 FLOOR PLANS

SCALE 1/8" = 1'-0"

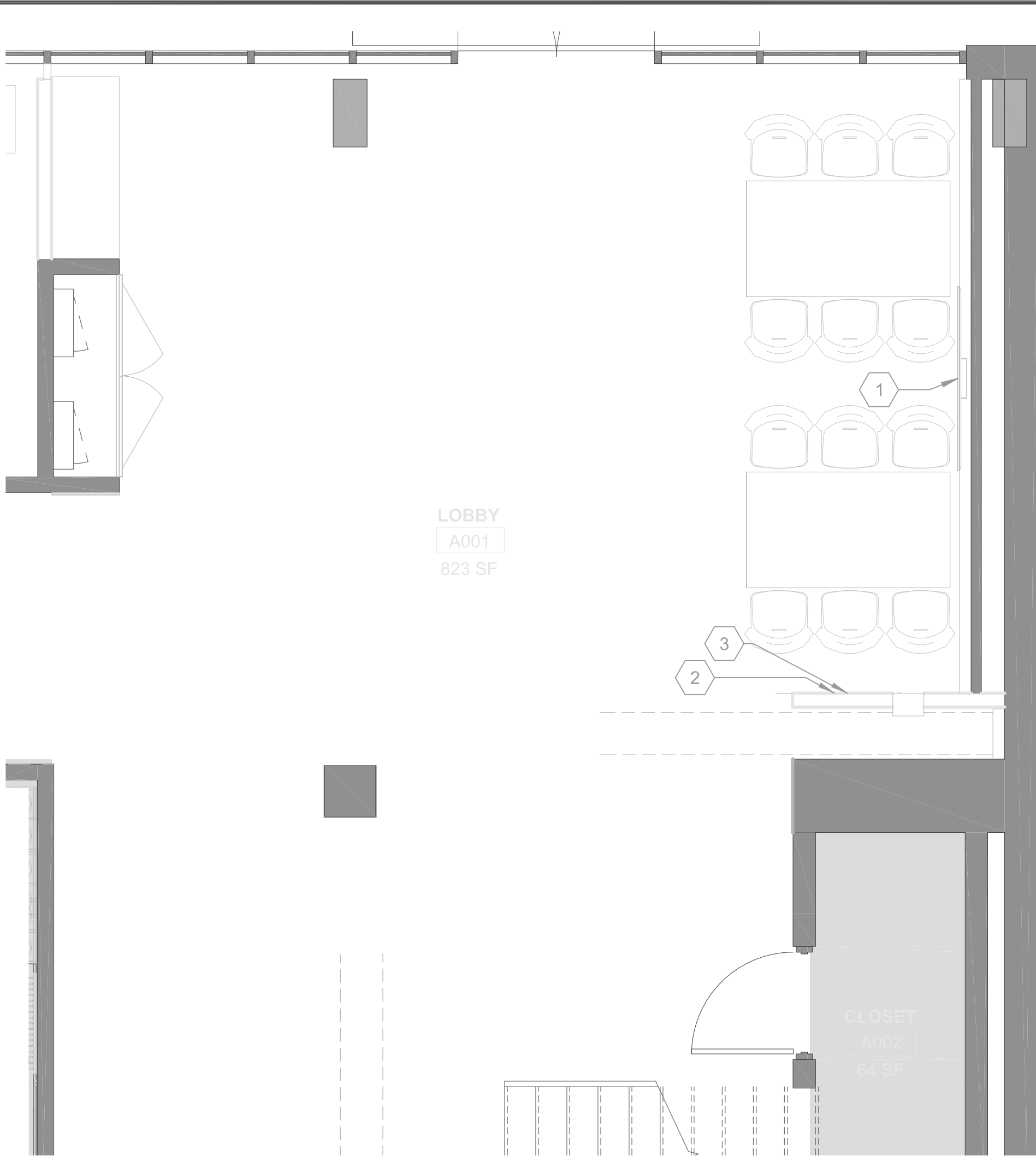
E.302





AV AV EQUIPMENT LAYOUT Scale: 1/2" = 1'

- AV EQUIPMENT LAYOUT KEYNOTES:
- 85" DISPLAY CENTERED ON WALL, MOUNTED FROM DECK. SEE ARCHITECTURAL DRAWING.
 - WALLPLATE CONTROLLER. 1G, MOUNTED AT SSH.
 - HDMI INPUT WALLPLATE. 1G, MOUNTED AT SOH.



AV FIELD CABLING Scale: 1/2" = 1'

- FIELD CABLING KEYNOTES:
- 4D TO IDF, TERMINATED IN SURFACE MOUNT BOX ATTACHED TO DISPLAY MOUNT PANEL.
 - 1D TO IDF, TERMINATED WITH PLUG AT WALLPLATE CONTROLLER LOCATION (1G, MOUNTED AT SSH).
 - CAT6 BETWEEN HDMI INPUT WALLPLATE (1G, MOUNTED AT SOH) AND DISPLAY, TERMINATED WITH PLUG ON BOTH.
 - ROUTE ALL FIELD CABLING TO DISPLAY WITHIN COLUMN MOUNT.

- FIELD CABLING GENERAL NOTES:
- ROUTE ALL FIELD CABLING TO DISPLAY WITHIN COLUMN MOUNT.

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PROJECT TITLE
CHERRY EMERSON
LOBBY RENOVATION

Notes:

SHEET TITLE
Floor Plan
Lobby

Drawn By:
AJG

SHEET NO.

AV1

ASBESTOS HAZARD NOTIFICATION
THE OWNER IS RESPONSIBLE FOR THE
IDENTIFICATION OF ASBESTOS IN THE
WORK AREA. DO NOT DISRUPT ANY
SPECIAL CONDITIONS OF THE CONTRACT
OR REQUIREMENTS REGARDING
ASBESTOS.

REVISIONS
DATE
ISSUED 7/14/21

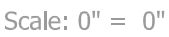
GEORGIA INSTITUTE OF TECHNOLOGY
OFFICE OF INFORMATION TECHNOLOGY
Department of Audio Visual Design
Rich Computer Building
Atlanta, Georgia 30332-0730
Georgia Tech



SIGNAL FLOW KEYNOTES:

1. MOUNT DEVICES TO THE COMPONENT STORAGE PANEL:
HDMI RECEIVER, WIRELESS PRESENTER, MEDIA PLAYER.
2. CONTROL ADAPTER INCLUDED WITH DISPLAY: DB9-3.5mm.

Scale: 0" = 0"



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**Georgia
Tech**

Department of Audio Visual Design
258 4th St. N.W.
Rich Computer Building
Atlanta, Georgia 30332-0730

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DATE
REVISIONS

ASBESTOS HAZARD NOTIFICATION

CHERRY EMERSON
LOBBY RENOVATION

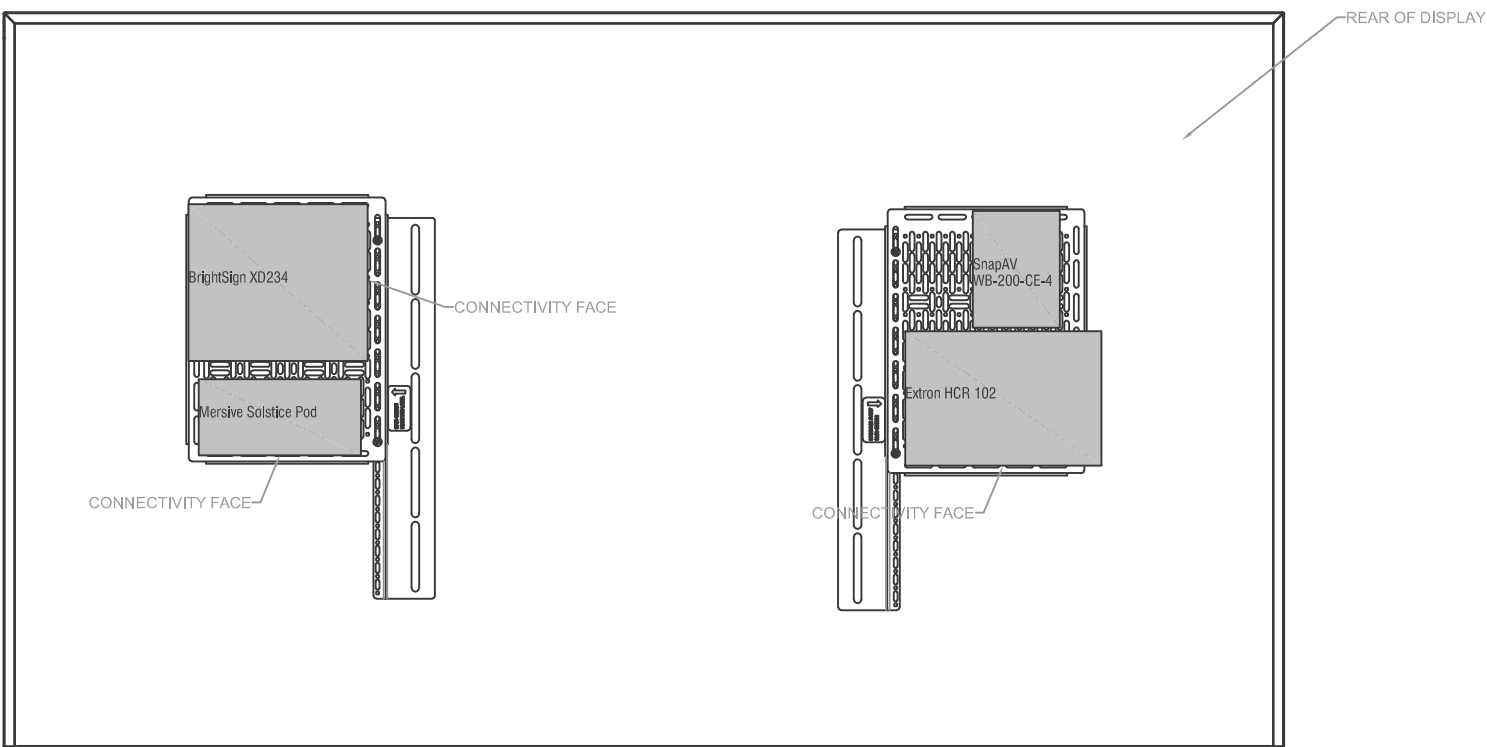
Notes:

SHEET TITLE
LINE DIAGRAM

Drown By:
Griffin, Andrew

SHEET NO.

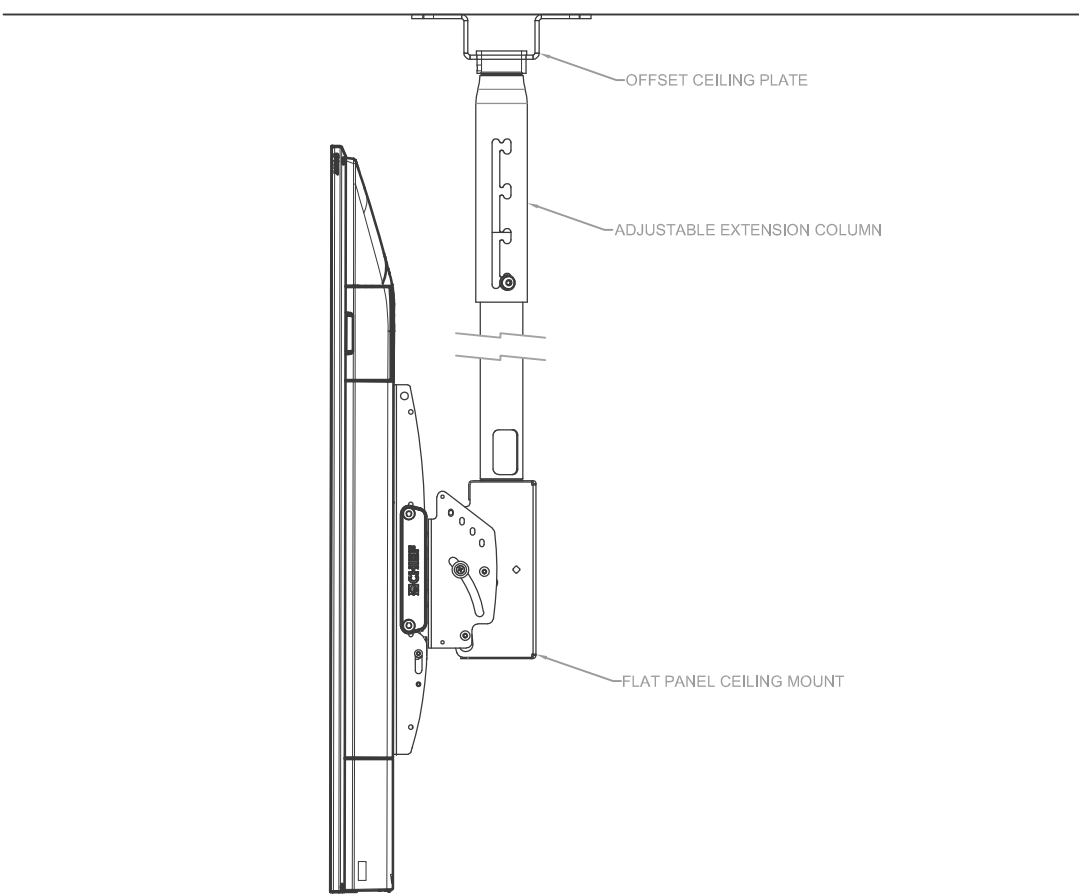
AV2



- DEVICE MOUNTING NOTES:
1. MOUNT DEVICES WITH VELCRO-TYPE STRAPS.
 2. SEE PANEL INSTALLATION MANUAL.

AV DEVICE MOUNTING AT DISPLAY

Scale: 0" = 0"



- DISPLAY MOUNTING NOTES:
1. MOUNT CEILING PLATE TO UPPER DECK SURFACE (INNER WEB).
 2. ADJUST EXTENSION COLUMN TO POSITION DISPLAY AT HEIGHT SPECIFIED. SEE ARCHITECTURAL DRAWING; COORDINATE WITH GT OIT AVS.
 3. ROUTE ALL FIELD CABLING TO DISPLAY WITHIN COLUMN MOUNT.

AV DISPLAY MOUNTING

Scale: 0" = 0"

*COMPONENT STORAGE PANEL AND MOUNTABLE DEVICES NOT SHOWN.

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PROJECT TITLE

CHERRY EMERSON
LOBBY RENOVATION

Notes:

SHEET TITLE

Details

Drawn By:

Griffin, Andrew

SHEET NO.

AV3

REVISIONS

DATE

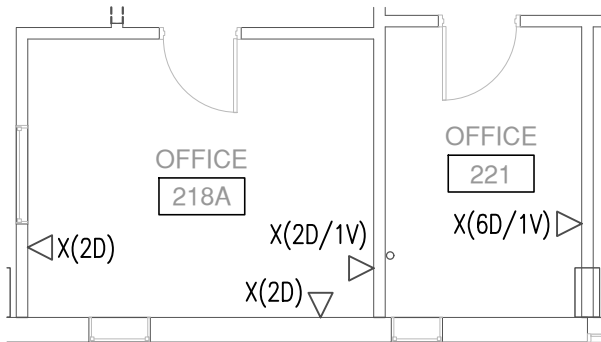
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ASBESTOS HAZARD NOTIFICATION

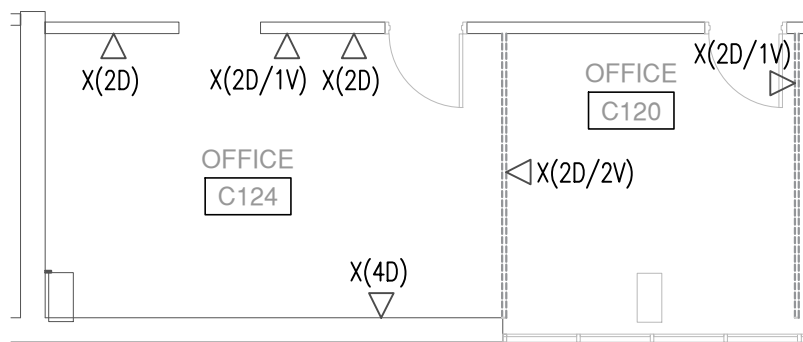
THE OWNER IS RESPONSIBLE FOR THE ASBESTOS HAZARD NOTIFICATION IN THE WORK AREA. DO NOT ASSUME ANY SPECIAL CONDITIONS OF THE CONTRACT. SPECIAL CONDITIONS FOR REQUIREMENTS REGARDING ASBESTOS.

GEORGIA INSTITUTE OF TECHNOLOGY
OFFICE OF INFORMATION TECHNOLOGY
Department of Audio Visual Design
Rich Computer Building
Atlanta, Georgia 30332-0730

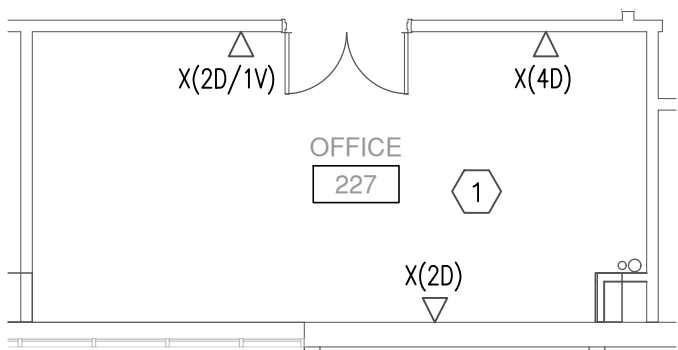
Georgia
Tech



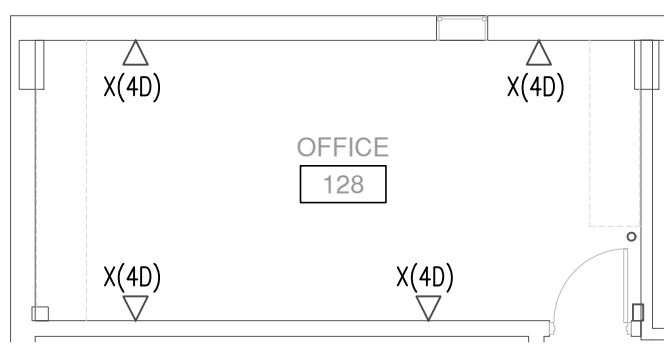
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C-1 APPROXIMATE SCALE: NOT TO SCALE



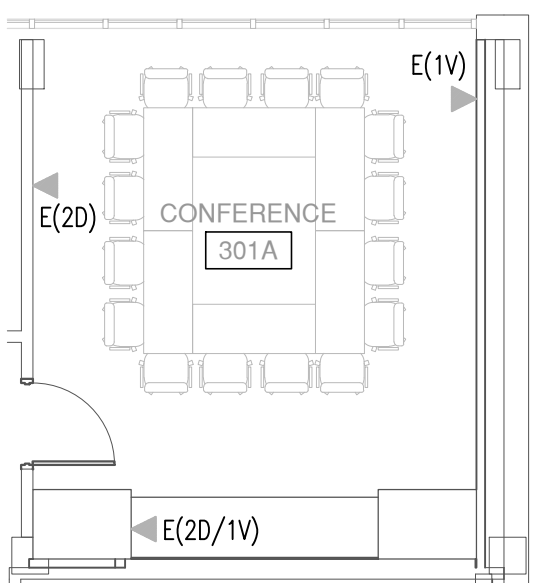
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C-1 APPROXIMATE SCALE: NOT TO SCALE



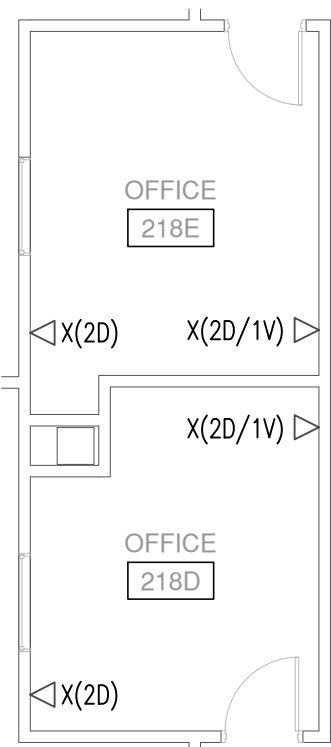
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C-1 APPROXIMATE SCALE: NOT TO SCALE



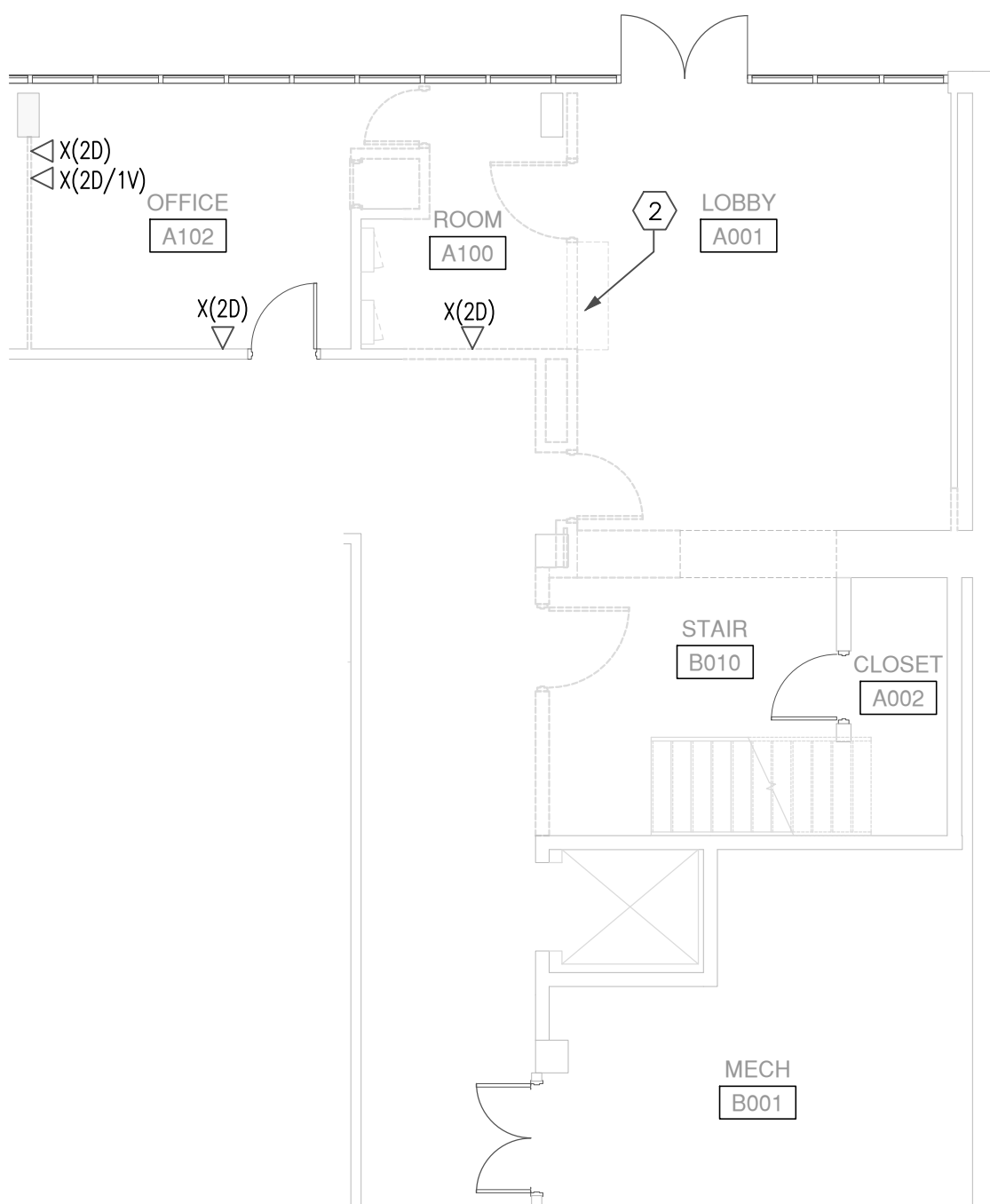
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C-1 APPROXIMATE SCALE: NOT TO SCALE



5 ROOM - 301A
C-1 APPROXIMATE SCALE: NOT TO SCALE



6 ROOMS - 218E, 218D DEMO
C-1 APPROXIMATE SCALE: NOT TO SCALE



7 ROOM - LOBBY AREA DEMO
C-1 APPROXIMATE SCALE: NOT TO SCALE

GENERAL NOTES

- COORDINATE DEMO WITH GENERAL CONTRACTOR.

KEY NOTES

- DEMO AV PLATE AND CABLING. DEMO PROJECTOR AND SCREEN AND RETURN TO BUILDING MANAGER.
- REMOVE DISPLAY AND RETURN TO BUILDING MANAGER.

TELECOMMUNICATION SYMBOL LEGEND

- *D/*V/*C/*A ▼ 6-PORT COMMUNICATIONS DEVICE PLATE WITH JACKS/BLANKS AS INDICATED.
*D NUMBER OF CAT5e DATA JACKS
*V NUMBER OF CAT5e VOICE JACKS
*C NUMBER OF COAX F-CONNECTORS
*A NUMBER OF AV JACKS CAT6
*B NUMBER OF CAT5e JACKS FOR AV
- E/R/X EXISTING/ RELOCATE/ REMOVE
- 1V 1-PORT STAINLESS FACEPLATE WITH TABS FOR WALL-MOUNT TELEPHONE.
- (W) ▼
- 1D (1) CAT5e DATA CABLE TERMINATED IN A JACK WITH 20' WAP ADDITIONAL CABLE COILED ABOVE CEILING FOR WIRELESS ACCESS POINT.
- *D/*V/*C/*A ▼ EXISTING LOW VOLTAGE PLATE TO BE REMOVED. DEMO CABLING AS INDICATED BACK TO IDF.
- ▼ FLOOR BOX, CABLING AS NOTED.
- *D/*V/*C/*A ▼ 12-PORT (2-GANG) INFORMATION MANAGEMENT OUTLET.

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	DATE	

ASBESTOS HAZARD NOTIFICATION
THE OWNER IS RESPONSIBLE FOR THE REMOVAL OF ASBESTOS THAT MAY EXIST IN THE WORK AREA. DO NOT DISTURB ANY MATERIALS THAT CONTAIN ASBESTOS. SEE ATTACHED DOCUMENTS FOR REQUIREMENTS REGARDING ASBESTOS.

DESIGN	ISSUED
RAG	7/14/21
DRAWN	APPROVED
RAG	

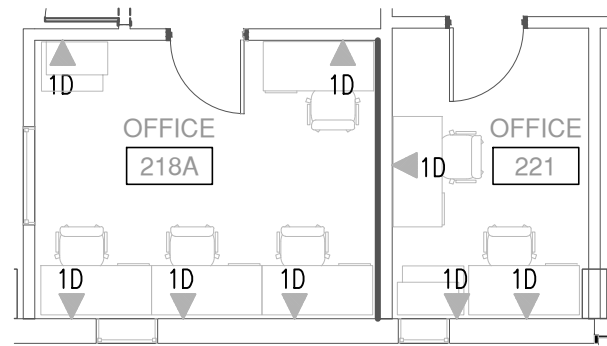
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SHEET TITLE
AREA OF WORK
DEMO PLANS

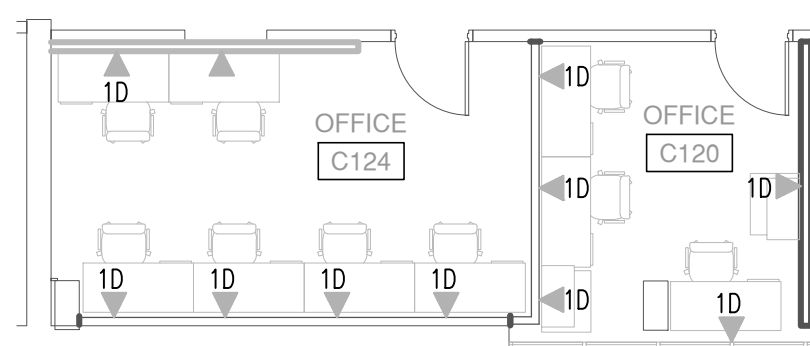
DESIGN/ESTIMATE NO.
NS8663

SHEET NO.
C-1
OF 2

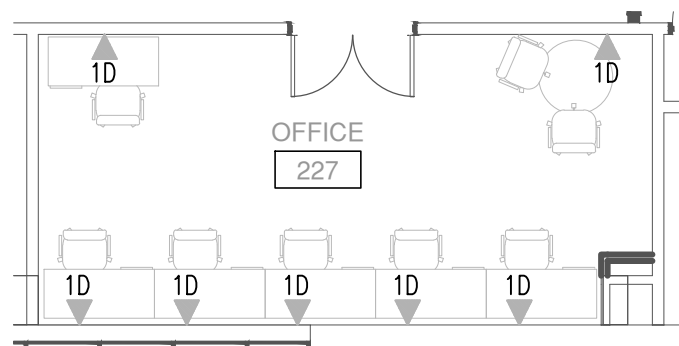
FOR REFERENCE ONLY - BOXES AND CONDUITS BY GENERAL CONTRACTOR.
CABLING BY G.T. CONTRACTOR. GENERAL CONTRACTOR SHALL COORDINATE
WITH G.T. TELECOM CONTRACTOR TO PHASE DEMOLITION AND NEW WORK.



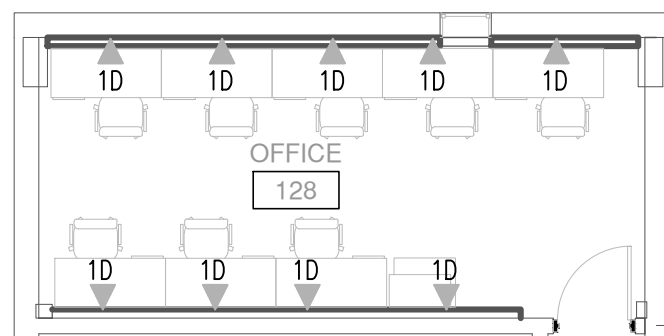
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C-2 APPROXIMATE SCALE: NOT TO SCALE



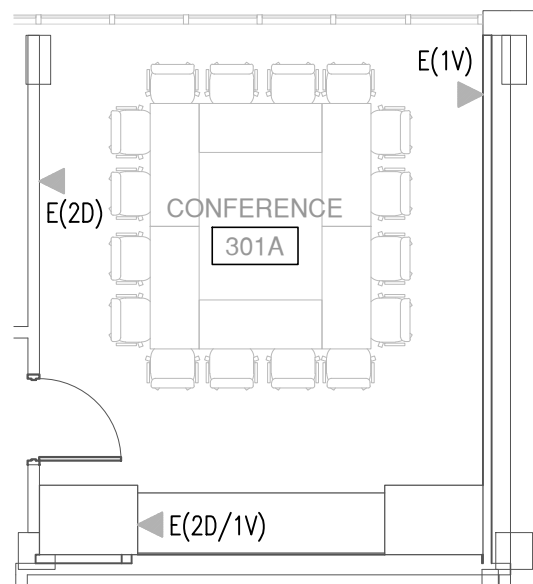
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C-2 APPROXIMATE SCALE: NOT TO SCALE



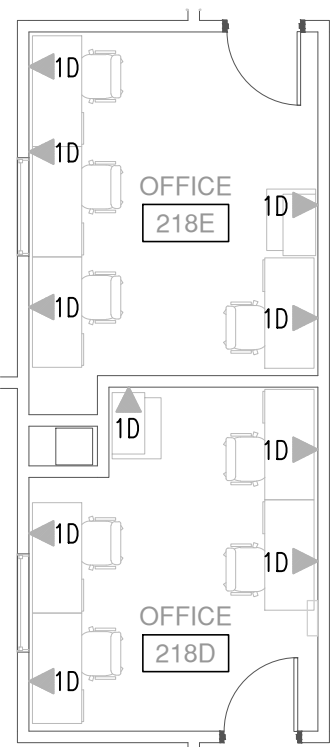
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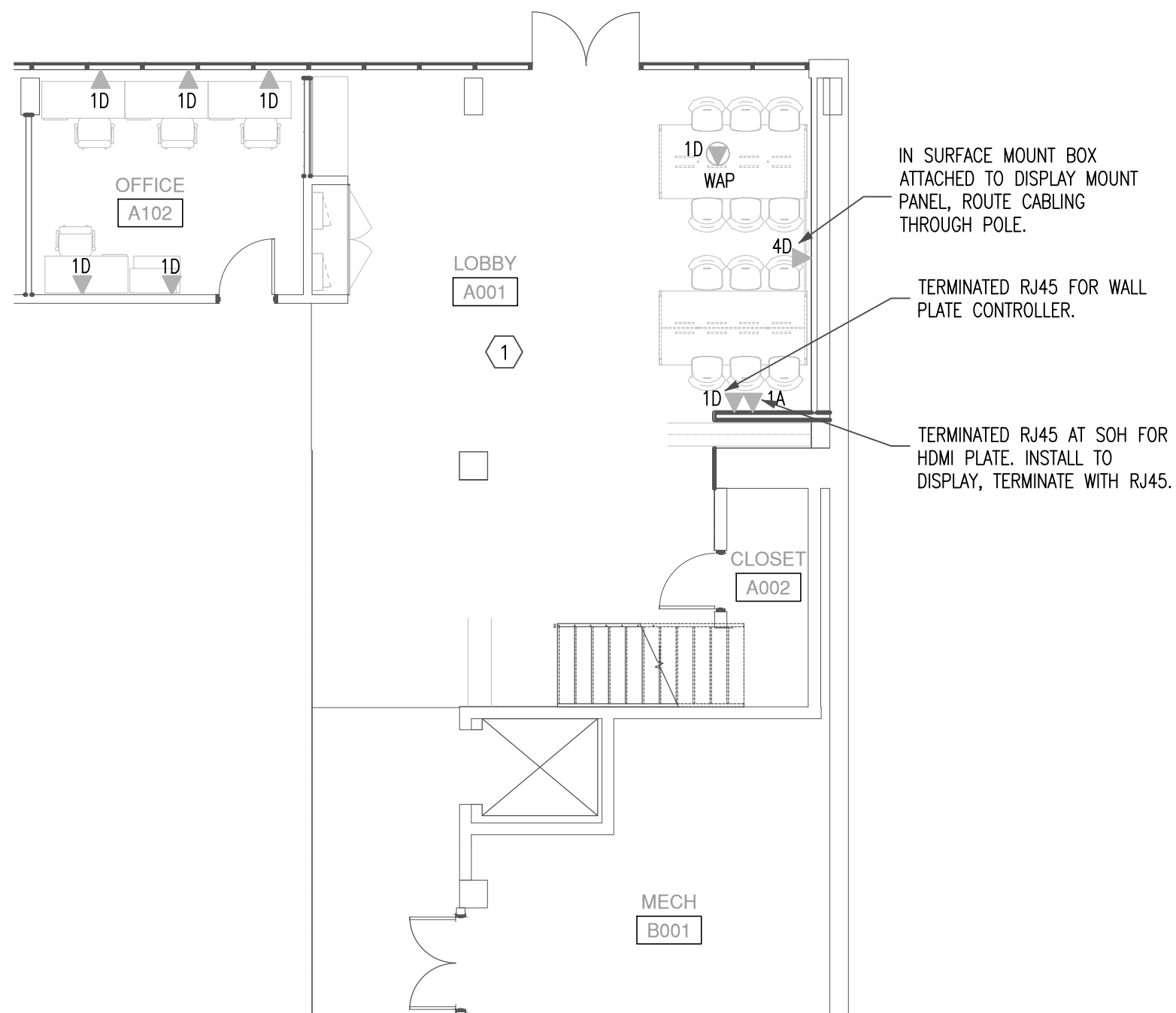
4 ROOM - 128 CABLING
C-2 APPROXIMATE SCALE: NOT TO SCALE



5 ROOM - 301A
C-2 APPROXIMATE SCALE: NOT TO SCALE



6 ROOMS - 218E, 218D CABLING
C-2 APPROXIMATE SCALE: NOT TO SCALE



7 ROOM - LOBBY AREA CABLING
C-2 APPROXIMATE SCALE: NOT TO SCALE

GENERAL NOTES

- 1 PROVIDE 1 X 7' CAT5e PATCH CABLE FOR EACH DATA CABLE INSTALLED. ALSO PROVIDE 1 CAT5e PATCH CABLE TO LENGTH FOR EVERY DATA CABLE IN IDF BETWEEN PATCH PANELS AND NETWORK SWITCH.
- 2 LABEL EACH END OF ALL AV CABLING PER DIRECTION FROM AV ENGINEER.
- 3 CABLING TO DISPLAY TO BE ROUTED WITHIN COLUMN MOUNT.

KEY NOTES

- 1 LOBBY CEILING OPEN TO STRUCTURE. CONDUIT BY ELECTRICAL, MINIMUM 1" UNLESS OTHERWISE NOTED.

TELECOMMUNICATIONS BOXES / CONDUITS

ELECTRICAL SHALL PROVIDE AND INSTALL ALL PATHWAYS, BOXES, CONDUITS, SLEEVES, FLOOR BOXES, ETC... FOR TELECOMMUNICATION / AV CABLING. COORDINATE WITH TELECOM, AV, AND OTHER TRADES. STUB CONDUITS ABOVE ACCESSIBLE CEILINGS. MAXIMUM OF (2) 90° BENDS AND (2) OFFSETS (45° OR LESS) BETWEEN PULL BOXES. ALL PULL BOXES SHALL BE LOCATED IN ACCESSIBLE AREAS. DO NOT DAISY CHAIN TELECOM CONDUITS.

DUAL CHANNEL 4000 RACEWAY TO BE PROVIDED AND INSTALLED BY ELECTRICAL WITH CENTER DIVIDER, AND 4050 BRACKET AND 5507-6TJ FACEPLATE PROVIDED FOR LOW VOLTAGE LOCATIONS.

FOR WIRELESS ACCESS POINT LOCATION (WAP) ELECTRICIAN TO PROVIDE 3/4" CONDUIT TO A 1900 BOX WITH A SINGLE GANG MUD RING MOUNTED 6'10" ABOVE FINISHED FLOOR.

TELECOMMUNICATION SYMBOL LEGEND

- *D/*V/*C/*A ▽ 6-PORT COMMUNICATIONS DEVICE PLATE WITH JACKS/BLANKS AS INDICATED.
*D NUMBER OF CAT5e DATA JACKS
*V NUMBER OF CAT5e VOICE JACKS
*C NUMBER OF COAX F-CONNECTORS
*A NUMBER OF CAT6 FOR AV
*B NUMBER OF CAT5e JACKS FOR AV
- E/R/X EXISTING/ RELOCATE/ REMOVE
- 1V 1-PORT STAINLESS FACEPLATE WITH TABS FOR WALL-MOUNT TELEPHONE.
(W) ▽
- 1D (1) CAT5e DATA CABLE TERMINATED IN A JACK WITH 20' WAP ADDITIONAL CABLE COILED ABOVE CEILING FOR WIRELESS ACCESS POINT.
- *D/*V/*C/*A ▽ EXISTING LOW VOLTAGE PLATE TO BE REMOVED. DEMO CABLING AS INDICATED BACK TO IDF.
- ▽ FLOOR BOX, CABLING AS NOTED.
- *D/*V/*C/*A ▽ 12-PORT (2-GANG) INFORMATION MANAGEMENT OUTLET.

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DESIGN	ISSUED
RAG	7/14/21
DRAWN	APPROVED
RAG	

CAD FILE NAME NS8663C02

SHEET TITLE AREA OF WORK NEW WORK PLANS
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DESIGN/ESTIMATE NO. NS8663

SHEET NO. C-2 OF 2

FOR REFERENCE ONLY - BOXES AND CONDUITS BY GENERAL CONTRACTOR.
CABLING BY G.T. CONTRACTOR. GENERAL CONTRACTOR SHALL COORDINATE
WITH G.T. TELECOM CONTRACTOR TO PHASE DEMOLITION AND NEW WORK.



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Structural Feasibility Study for
Cherry Emerson

310 Ferst Dr NW, Atlanta, Georgia

DATE

July 14, 2021

PREPARED FOR:

May Architecture
Shelly Attila
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Atlanta, Georgia 30361

PREPARED BY:

Karen Jenkins, PE

1.0 SUMMARY

Shear Structural was asked to provide a feasibility study for the renovation of the Cherry Emerson building located at 310 Ferst Drive in Atlanta, Georgia. The intent is to demolish a portion of the existing masonry walls located in the stair lobby of the first floor and the corridor masonry walls at offices 212 and 214 on the second floor.

Shear Structural visited the site on March 29, 2021. Existing partial structural drawings are available for the building. Renovation drawings from 2002 by Jordan Jones & Goulding dated September 30, 2002 were provided for the study.

2.0 OBSERVATIONS

The existing building is a three-story office structure of approximately 59,929 square feet built in 1958 per the Facility Condition Analysis done in 2014 by Faithful+Gould. The current use is a research facility with office space. The exterior and interior walls appear to be non-load bearing masonry walls with brick veneer and are assumed to be supported by a continuous concrete footing.

The building is a concrete framed structure. The floor structure consists of concrete beams supporting joists. Concrete beams supported by square concrete columns. It is assumed that the columns are supported on shallow spread footings.

The lobby stair is a steel stair extending from ground floor to the topmost level. At each floor, the landing is an extension of the concrete floor system. The steel stringers attach to the concrete edge beam at each floor level. The intermediate landings are steel framed. The intermediate landing steel is bolted to the masonry stairwell walls.

In office C122 on the first floor, vertical cracks were observed in the exterior masonry wall. One crack was at the very end and another at the midway length. This wall is a non-load bearing masonry wall. From the exterior, there is a vertical expansion joint which coincides with the interior crack location. The mid-length crack appears to be attributed to an expansion joint failure in the masonry.

3.0 EVALUATION

Building Modifications

The existing masonry walls located in the stair lobby of the first floor are intended to be partially demolished. See figures 1 & 2 for proposed demolition plans.

Based on the existing drawings by John Cherry Architect dated May 13, 1966 and site observations, the north stairwell wall portion to be demolished is non-load bearing. See existing stair drawings (Figures 3-5) below depicting infill wall between structural concrete columns and stair framing.

The stair stringers are supported at each concrete building floor. At intermediate landings, the stair framing is bolted to the masonry stairwell walls. Thus, making the masonry walls load bearing along the perimeter of the intermediate stair landings. For these walls to be removed, additional framing will be

required to re-support the stair. Contractor will have to shore the existing stair while additional framing to re-support the stair is installed. If load bearing walls to be demolished, contact engineer for design.

As stated before, the corridor masonry walls at offices 212 and 214 are non-load bearing. Therefore, these walls can be removed to create a 14'-6" opening for the proposed curtain wall without compromising the existing structure. For the masonry to remain above the curtain wall, a steel lintel size L6x4x3/8 each side with at least a foot bearing at each end will be required. The lintel will need to be installed prior to the removal of the masonry wall.

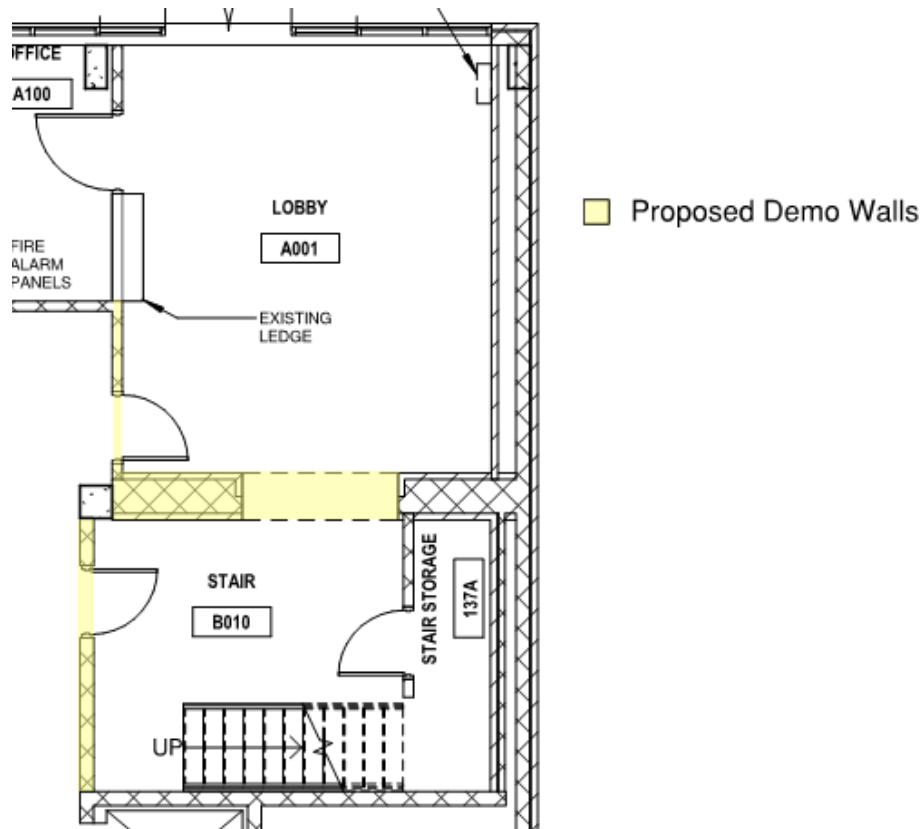


Figure 1. Level 1 Lobby Proposed Demo Plan

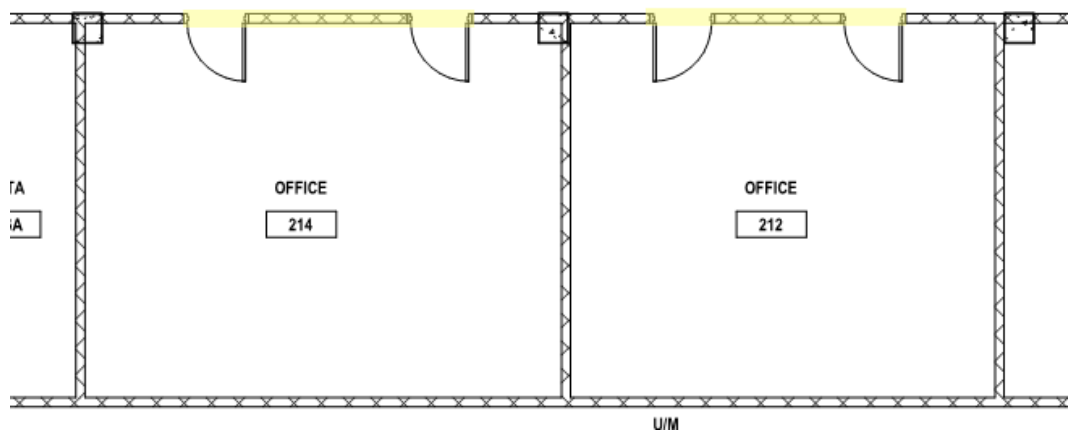


Figure 2. Level 2 Proposed Demo Plan

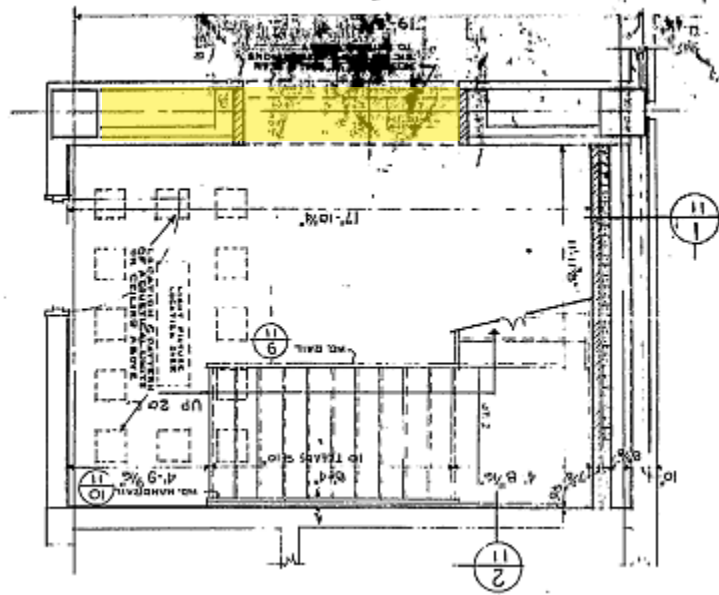


Figure 3. Level 1 Stair Floor Plan

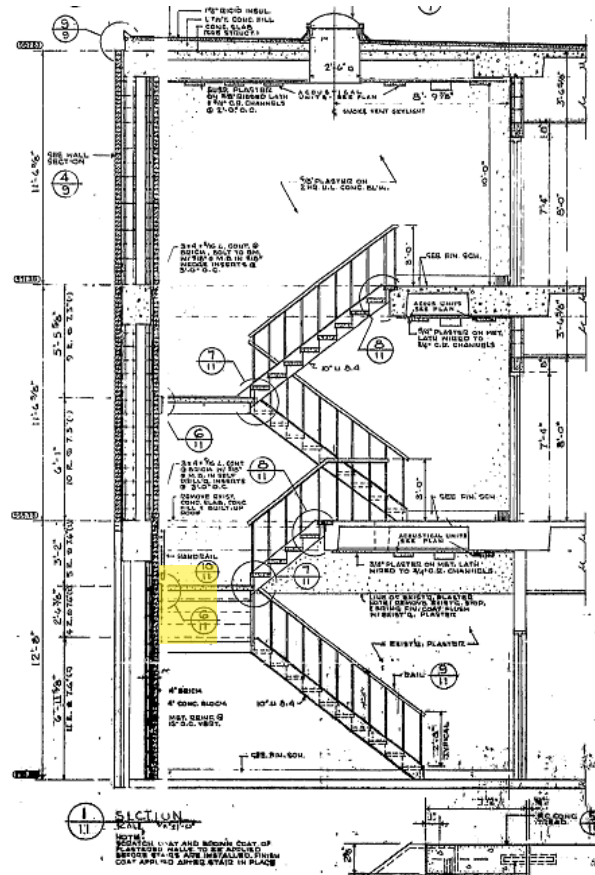


Figure 4. Detail 1/11 Level 1 Stair Section

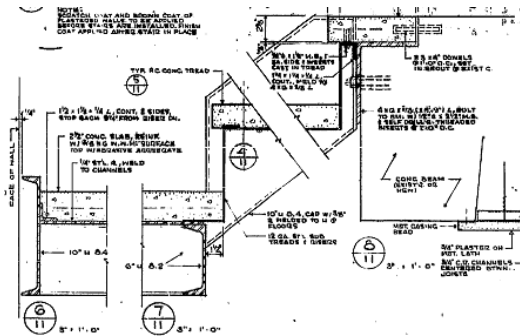


Figure 5. Detail 6/11 Stair Section

Building Maintenance

At office C122, repair and seal vertical expansion joint to prevent further cracking in finishes.

4.0 SUMMARY

The stair landing portion of the masonry wall should remain to eliminate the need to re-support the stairs. If the entire wall in this location is demolished, the stair landing will need secondary framing for support. Contact engineer for design. Based on the existing building plans, the proposed demolition of the first floor north stairwell wall is acceptable as this wall portion is non-loading bearing.

Non-load bearing masonry walls should be demolished in their entirety to the underside of existing concrete framed structure, otherwise steel lintel support is required to support the remaining wall above. Lintel size will be designed based on final wall opening extent and amount of remaining masonry above.

Please feel free to contact us if you have any questions.

Sincerely,

SHEAR STRUCTURAL, INC

Karen Jenkins, PE
Managing Partner