ELECTRICAL SPECIFICATIONS & GENERAL NOTES

- ALL ELECTRICAL WORK PERFORMED UNDER THIS CONTRACT SHALL COMPLY WITH THE LATEST VERSION OF THE NATIONAL ELECTRICAL CODE, NFPA 70-2017, ADA (AMERICAN DISABILITIES ACT) AND ALL LOCAL CODES AND ORDINANCES. BASE BUILDING TENANT SPECIFICATIONS SHALL PREVAIL OVER ALL WORK AND/OR EQUIPMENT ON THESE DRAWINGS UNLESS OTHERWISE NOTED. ANY DEVIATIONS AND/OR QUESTIONS REGARDING BASE BUILDING SPECIFICATIONS VS. SPECIFICATIONS ON THESE DRAWINGS SHALL BE REFERRED TO THE BUILDING MANAGEMENT. ARCHITECT AND ENGINEER.
- ALL MATERIALS USED FOR CONSTRUCTION SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER
- ALL WIRING SHALL BE SOFT DRAWN, ANNEALED COPPER, #12 AWG MINIMUM. WIRE SIZE #10 AND SMALLER SHALL BE SOLID. INSULATION SHALL BE THHN/THWN. ALL 120V, 20A HOME RUNS LONGER THAN 75 FT. AND 277V, 20A HOME RUNS LONGER THAN 200 FT. SHALL BE #10 AWG MINIMUM. ALL POWER LIMITED WIRING NOT INSTALLED IN A RACEWAY SHALL BE U.L. LISTED FOR USE IN ENVIRONMENTAL PLENUMS.
- ALL WIRING SHALL BE INSTALLED IN CONDUIT (ELECTRICAL METALLIC TUBING) 3/4" MINIMUM SIZE. IN LIEU OF CONDUIT AND WIRE, AND SUBJECT TO THE LOCAL AUTHORITY HAVING JURISDICTION, METAL CLAD CABLE (MC) MAY BE USED IN BRANCH CIRCUITS NOT HAVING CONDUCTOR SIZE GREATER THAN #10 AWG. ARMORED CABLE (BX) IS NOT ACCEPTABLE AND SHALL NOT BE USED. REFER TO ELECTRICAL NEW WORK PLANS FOR INFORMATION.
- PRIOR TO ENERGIZATION OF ALL NEW FEEDERS, CHECK ALL WIRE AND CABLE FOR CONTINUITY OF CIRCUITRY AND FOR SHORT CIRCUITS. CORRECT ALL MALFUNCTIONS.
- ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE AND EXACTLY MATCH BASE BUILDING STANDARD DEVICE STYLE, COLOR AND MOUNTING HEIGHT UNLESS REQUIRED TO BE IN COMPLIANCE WITH ADA. WALL PLATES SHALL MATCH EXACT DEVICE COLOR UNLESS OTHERWISE NOTED. PROVIDE DEVICE PLATE LABEL PER DETAILS THIS SHEET.
- ALL NEW OR ADDITIONAL POWER DISTRIBUTION EQUIPMENT SHALL BE THE SAME MANUFACTURER AS THE ORIGINAL BUILDING EQUIPMENT AND SHALL BE PROVIDED WITH BLACK, PHENOLIC NAMEPLATES ENGRAVED WITH WHITE LETTERS (MINIMUM 5/16" HEIGHT). ENGRAVED TO INDICATE VOLTAGE, PHASE, BUSSING, AND SHORT CIRCUIT BRACING. SUPPLY NEW, ACCURATE PANEL DIRECTORIES FOR EACH PANEL BOARD OR DISTRIBUTION PANEL IN WHICH ANY WORK IS PERFORMED. PROVIDE NEW BREAKERS IN EXISTING SPACES AS REQUIRED FOR THIS INSTALLATION. BREAKERS FOR DISCONNECTED, REMOVED OR ABANDONED CIRCUITS SHALL BE RELABELED "SPARES".
- DAMAGED EXISTING ELECTRICAL EQUIPMENT, WIRING DEVICES, WIRING DEVICE COVER PLATES, CONDUIT AND WIRE SHALL BE REPLACED. ALL MATERIALS USED FOR REPLACEMENT MUST MEET ORIGINAL SPECIFICATIONS. ABANDONED ELECTRICAL, DATA, OR COMMUNICATIONS ELEMENTS SHALL BE REMOVED BACK TO FIRST ACCESSIBLE J-BOX ABOVE CEILING. REFER TO DATA AND TELEPHONE CONTRACTOR FOR COORDINATION.
- ALL CIRCUIT NUMBERS SHOWN ARE FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CIRCUIT DESIGNATIONS WITH EXISTING CONDITIONS AND ADJUST ACCORDINGLY.
- IN NO CASE SHALL FIRE-RATED POKE-THROUGH DEVICES BE INSTALLED LESS THAN 24" ON CENTER OR EXCEED ONE PENETRATION PER 65 SQ. FT. OF FLOOR AREA. INSTALLATIONS WHICH VARY FROM THESE REQUIREMENTS SHALL BE REFERRED TO THE ARCHITECT AND/OR ENGINEER FOR APPROVAL PRIOR TO ROUGH-IN.
- FIRE-PROOF ALL SLAB AND PARTITION PENETRATIONS PER FIRE SAFING SYSTEMS DESCRIBED BY THE ASTM E814 (U.L.1479), NEC-300-21 AND NEC-800-52(B) AND THE LOCAL CODES AND ORDINANCES.
- FIRE-SAFE ALL UNUSED SLAB PENETRATIONS AND PROVIDE COVERPLATES AS REQUIRED.
- ALL FIRE ALARM SYSTEM DEVICES SHALL BE INTERFACED WITH BUILDING FIRE ALARM SYSTEM. ALL NEW DEVICES SHALL BE FULLY COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM. PROVIDE ADDITIONAL FIRE ALARM SIGNALING DEVICES AS REQUIRED TO ASSURE ADEQUATE COVERAGE THROUGHOUT THE LEASE AREA. ADDITIONAL FIRE ALARM DEVICES SHALL BE ADDED TO MEET BUILDING STANDARDS AND FIRE ALARM SYSTEM CODE REQUIREMENTS. WHERE ADA STROBES ARE ADDED THE CONTRACTOR SHALL VERIFY THE CAPABILITY OF THE EXISTING BASE BUILDING FIRE ALARM SYSTEM TO SUPPORT THE STROBES AND SHALL PROVIDE NEW POWER SUPPLIES AND HARDWARE AS REQUIRED. ALL WORK SHALL BE COMPATIBLE WITH THE BASE BUILDING FIRE ALARM SYSTEM.
- THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMISSION OF ESTIMATE AND SHALL INCLUDE IN HIS PROPOSAL COSTS FOR REPAIR, RELOCATION, MODIFICATIONS AND/OR REMOVAL OF EXISTING ELECTRICAL ELEMENTS AS REQUIRED TO COMPLETE INSTALLATION OF ALL SYSTEMS SHOWN ON THESE DRAWINGS. THE CONTRACTOR, BY SUBMITTING HIS PROPOSAL, SHALL AGREE TO ACCEPT ALL EXISTING SITE CONDITIONS NOT SPECIFICALLY NOTED. ANY EXCEPTIONS MUST BE SUBMITTED IN WRITING TO ENGINEER AND ARCHITECT.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL OF THE BUILDING PROPERTY MANAGEMENT'S CONSTRUCTION REQUIREMENTS. WORK THAT INTERFERES WITH EXISTING TENANT OR BUILDING ACTIVITIES MAY REQUIRE SPECIAL TIME. THE ELECTRICAL CONTRACTOR SHALL COORDINATE SPECIAL TIME WITH BUILDING MANAGEMENT AND INCLUDE THESE COSTS IN HIS BID PROPOSAL.
- CABLE INSTALLED OUTSIDE OF A RACEWAY SHALL BE SUPPORTED INDEPENDENTLY AND NOT FROM OTHER SYSTEMS. SECURING CABLES TO OR FROM WATER LINES, ELECTRICAL RACEWAYS OR ANY OTHER MECHANICAL SYSTEM IS NOT ACCEPTABLE. CABLES SHALL BE SUPPORTED FROM BAR JOISTS, CABLE TRAYS, UNISTRUT TRAPEZE HANGERS, OR OTHER HANGERS INSTALLED AND APPROVED FOR THIS PURPOSE. MAXIMUM SPACING SHALL BE 10' ON CENTER WITH A MAXIMUM 8" SAG. CABLES SHALL MAINTAIN A MINIMUM 6" CLEARANCE FROM ELECTRICAL EQUIPMENT.
- ALL MATERIALS AND LABOR FURNISHED UNDER THIS CONTRACT SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL COMPLETION.
- THE ELECTRICAL CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF EXISTING ELECTRICAL CIRCUITS DURING AND AFTER DEMOLITION.
- NON-DEMOLITION AREAS: DEMOLITION WORK SHALL NOT AFFECT AREAS NOT INCLUDED IN DEMOLITION. E.C. SHALL BE RESPONSIBLE FOR THE CONTINUITY OF ALL SERVICES (POWER, TELEPHONE, FIRE ALARM, DATA, PAGING, INTERCOM, ETC...) IN NON-DEMOLITION AREAS. ALL SERVICES SHALL BE MAINTAINED AT ALL TIMES. ELECTRICAL CONTRACTOR (E.C.) SHALL MAINTAIN SERVICE BY EXTENDING, RE-ROUTING AND/OR RE-CONNECTING ANY CIRCUITS AFFECTED BY DEMOLITION. PROVIDE ADDITIONAL CONDUIT/WIRE AS REQUIRED TO MAINTAIN SERVICE. CIRCUITS IN NON-DEMOLITION AREAS THAT ARE CONNECTED TO DEMO'D PANELS AND/OR CIRCUITS SHALL BE RE-CIRCUITED TO A NEW SUB-PANEL (FURNISHED AND INSTALLED BY E.C., SIZE AS REQUIRED) IF SPACES/SPARES ARE NOT AVAILABLE IN ANY NEW PANELS IN RENOVATION AREAS. PROVIDE TEMPORARY POWER AS REQUIRED DURING CHANGE-OVER TO MAINTAIN CONTINUOUS SERVICE. PROVIDE TEMPORARY POWER FOR ALL RELOCATED CIRCUITS AS REQUIRED TO MAINTAIN CONTINUOUS SERVICE. SIMILARLY FOR FIRE ALARM, PAGING, SECURITY, DATA SYSTEM, ETC...

ELECTRICAL SCOPE OF WORK

- ELECTRICAL DEMOLITION TO SUPPORT THE REMOVAL OF EXISTING CONDENSING AND AHU MECHANCIAL UNITS.
- ELECTRICAL INSTALLATIONS TO SUPPORT THE ADDITION OF NEW CONDENSING, AHU MECHANICAL UNITS.
- MISCELLANEOUS PATCH AND REPAIR OF SURROUNDING STRUCTURE AS A RESULT OF DEMOLITION AND NEW WORK INSTALLATIONS.

ELECTRICAL ABBREVIATIONS

(NOT ALL ABBREVIATIONS ARE USED IN THIS DESIGN PACKAGE

А	AMPERE
A/C	AIR CONDITIONING UNIT
ACT	ACOUSTICAL CEILING THE
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AH.I	
AHU	AIR HANDI ING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
ALUM	ALUMINUM
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
	AMERICAN WIRE GALIGE
BRKR	BREAKER
C CND	CONDUIT
CB	CIRCUIT BREAKER
CLG	CEILING
CKT	CIRCUIT
COR	CONTRACT OFFICER'S REPRESENTATIVE
CRAC	
CU	CONDENSING UNIT
CU	COPPER
	DIAMETER
DS-#	DISCONNECT SWITCH
DWG	DRAWING
FX	EXISTING
FC	ELECTRICAL CONTRACTOR
FLFC	FLECTRICAL
FI FV	FLEVATION
EMR	ELEVATOR MACHINE ROOM
FMT	
<er></er>	EXISTING RELOCATED, REINSTALLED AND RECONNECT
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
FMC	
FDR	FEEDER
FT	FEFT
FVNR	FULL VOLTAGE NON-REVERSING
G. GND	GROUND
GB	GROUND BAR
G.C.	GENERAL CONTRACTOR
GEN	GENERATOR
HP	HORSEPOWER
HVAC	HEATING, VENTILATION, AIR CONDITIONING
IBC	INTERNATIONAL BUILDING CODE
ICC	INTERNATIONAL CODE COUNCIL
IG	ISOLATED GROUND
IN	INCHES
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT-AMPERES
LED	LIGHT EMITTING DIODE
LRA	LOCKED ROTOR AMPS
MAX	MAXIMUM
M.C.	MECHANICAL CONTRACTOR
MCA	MINUMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MGB	MAIN GROUND BAR
MIN	MINIMUM
MTD	MOUNTED
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NF	NON-FUSED
NTS	NOT TO SCALE
OVC	OVERCURRENT
OCP	OVERCURRENT PROTECTION
OL	OVERLOAD
Р	POLE
P.C.	PLUMBING CONTRACTOR
PDU	POWER DISTRIBUTION UNIT
PH	PHASE
PNL	PANEL
PNLBD	PANELBOARD
RDU	REMOTE DISTRIBUTION UNIT / REMOTE DISTRIBUTION
RGS	RIGID GALVANIZED STEEL
SPDT	SINGLE POLE DOUBLE THROW
SQ FT	SQUARE FEET
STS	STATIC TRANSFER SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TYP	TYPICAL
RCPT	RECEPTACLE
UL	UNDERWRITER'S LABORATORIES
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT-AMPERES
VAC	VOLTS ALTERNATING CURRENT
VFD	VARIABLE FREQUENCY DRIVE
VT	VAPOR TIGHT
W	WIRE
W/	WITH
WG	WIRE GUARD
W/O	WITHOUT
WP	WEATHERPROOF
XFMR	TRANSFORMER

_		
		ELECTRICAL LEGEND
	ALL SYMB	OLS SHOWN ARE NOT NECESSARILY USED IN THIS PROJECT
	E (E)	EXISTING TO REMAIN
	R (R)	REMOVE EXISTING
	N (N)	NEW
	Ф	DUPLEX RECEPTACLE, 20AMP, 125VOLT, 2POLE, 3WIRE, GROUNDING TYPE, NEMA 5-20R
	∲ _{GFI}	GROUND FAULT INTERRUPTOR (GFI) DUPLEX RECEPTACLE. SIMILAR TO DUPLEX RECEPTACLE ABOVE.
	₽ _{wp}	WEATHERPROOF (WP) DUPLEX RECEPTACLE. SIMILAR TO DUPLEX RECEPTACLE ABOVE.
	₽ _{GFI/WP}	GROUND FAULT INTERRUPTOR (GFI) & WEATHERPROOF (WP) DUPLEX RECEPTACLE. SIMILAR TO DUPLEX RECEPTACLE ABOVE.
	+	DOUBLE (QUAD) DUPLEX RECEPTACLE WITH COMMON COVER PLATE. SIMILAR TO DUPLEX RECEPTACLE.
	\square	220V RECEPTACLE. TYPE AS INDICATED ON PLANS.
	ф	DEDICATED DUPLEX RECEPTACLE. INTENDED USAGES OF RECEPTACLES ENGRAVED ON COVERPLATE (E.G. "COPIER").
	\$	DEDICATED DOUBLE (QUAD) DUPLEX RECEPTACLE. INTENDED USAGES OF RECEPTACLES ENGRAVED ON COVERPLATE (E.G. "COPIER").
	\$	SNAP SWITCH, SINGLE POLE
IFD	\$м	MOTOR-RATED SWITCH WITH THERMAL OVERLOAD PROTECTION: TWO POLE, SINGLE THROW. SIZED TO ACCOMODATE SPECIFIC MOTOR RATING OF EQUIPMENT BEING SERVED.
	J	JUNCTION BOX.
	Ь	DISCONNECT SWITCH. ALL SWITCHES SHALL BE HEAVY DUTY TYPE (E.G. 30A/3P/600/NF/NEMA 1)
		FUSED DISCONNECT SWITCH. SIMILAR TO ABOVE.
		EXISTING ELECTRICAL PANELBOARD
		CONDUIT RUN CONCEALED IN WALL OR CEILING
		HOMERUN TO ELECTRICAL PANELBOARDS. CIRCUIT DESIGNATION AS INDICATED.

I CABINET

ELECTRICAL SHEE										
SHEET NUMBER	SHEET NAME									
E-0	ELECTRICAL GENERAL NOTES, SYMBO ABBREVIATIONS									
E-1	ELECTRICAL BASEMENT, 1ST FLOOR & DEMOLITION PLANS									
E 2	ELECTRICAL RASEMENT AST ELOOR									

E-3 ELECTRICAL ATTIC DEMOLITION AND NEW WORK PLANS E-4 ELECTRICAL PANEL SCHEDULES

# REVISION DESCRIPTION DATE	A 35% SCHEMATIC DESIGN 02/20/2018	B 75% - PRICING SET 10/21/2019	C REVISED 75% - PRICING SET 11/01/2019	D PROGRESS SET 04/24/2020	E ISSUED FOR CONSTRUCTION 04/15/2022					
			DAKI AND MANOR				5430 VANTAGE POINT RD, COLUMBIA, MD 21044			
EventeersPLANNERSPLANNERSSCIENTISTSSCIENTISTSSCIENTISTSCONSTRUCTIONMANAGENSPARKS, MD 21152PHONE: 410-316-7817FAX: 410-316-78175430 V.										
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LIST

BOLS AND & 2ND FLOOR E-2 ELECTRICAL BASEMENT, 1ST FLOOR & 2ND FLOOR NEW WORK PLANS

ELECTRICAL DEMOLITION GENERAL NOTES

- A. PLANS DO NOT ATTEMPT TO SHOW ALL DEMOLITION ITEMS. SOME DEVICES AND SWITCHES ARE SHOWN FOR INFORMATION ONLY. THE ELECTRICAL CONTRACTOR (E.C.) SHALL FIELD VERIFY ALL DEMOLITION ITEMS AND PROVIDE REMOVAL OF ALL DEVICES ACCORDINGLY. SEE RELATED NOTES ON MAINTAINING SEVICE TO NON-DEMOLITION AREAS. REMOVE ALL WIRING BACK TO PANEL(S) UNLESS RE-USED FOR NEW AND/OR RELOCATED WORKS. EXISTING WIRING WITH ADEQUATE CAPACITY FOR NEW AND/OR EXISTING LOADS MAY BE RE-USED. SIMILARLY FOR FIRE ALARM SYSTEM CONDUIT/WIRE (REMOVE BACK TO CONTROL PANEL(S) IF NOT RE-USED). DAMAGE TO EXISTING MATERIALS/EQUIPMENT WILL BE REPAIRED AT NO ADDITIONAL COST TO OWNER. RE-SUPPORT ANY REMAINING CONDUIT OR DEVICE THAT WERE SUPPORTED BY WALLS/MILLWORK BEING REMOVED.
- B. NON-DEMOLITION AREAS: DEMOLITION WORKS SHALL NOT AFFECT AREAS NOT INCLUDED IN DEMOLITION. E.C. SHALL BE RESPONSIBLE FOR THE CONTINUITY OF ALL SERVICES (POWER, FIRE ALARM) IN NON-DEMOLITION AREAS. ALL SERVICES SHALL BE MAINTAINED AT ALL TIMES. E.C. SHALL MAINTAIN SERVICE BY EXTENDING, REROUTING AND/OR RE-CONNECTING ANY CIRCUITS AFFECTED BY DEMOLITION. PROVIDE ADDITIONAL CONDUIT/WIRE AS REQUIRED TO MAINTAIN SERVICE. PROVIDE TEMPORARY POWER AS REQUIRED DURING CHANGE-OVER TO MAINTAIN CONTINUOUS SERVICE. PROVIDE TEMPORARY POWER FOR ALL RELOCATED CIRCUITS AS REQUIRED TO MAINTAIN CONTINUOUS SERVICE. SIMILARLY FOR FIRE ALARM.
- C. E.C. SHALL FIELD INVESTIGATE EXISTING ELECTRICAL INSTALLATION. ALL EXISTING INSTALLATIONS IN THE AREAS OF WORK THAT ARE TO REMAIN BUT ARE NOT CURRENTLY IN COMPLIANCE WITH CURRENT CODES SHALL BE CORRECTED BY E.C.
- D. ARCHITECTURAL PATCHWORK AND REPAIRS FOR DEMOLISHED ELECTRICAL EQUIPMENT AND DEVICES SHALL BE THE RESPONSIBILITY OF THE E.C. THIS WORK INCLUDES, BUT IS NOT LIMITED TO, REPAIR AND PATCHING OF WALLS AND CEILINGS WHERE ELECTRICAL EQUIPMENT AND DEVICES ARE REMOVED. WHERE REMOVED CONDUITS PENETRATE EXTERIOR WALLS, THE E.C. SHALL SEAL THE EXISTING PENETRATION WATERTIGHT.
- E. ALL EXISTING ABANDONED AND/OR UN-USED CONDUIT/WIRE, SWTCHES/STARTERS, J- BOXES, AND DEVICES IN PROJECT AREAS SHALL BE REMOVED BACK TO PANELS AND/OR CONTROL PANELS. ALL ITEMS DEMOLISHED BY E.C. SHALL BE REMOVED BACK TO PANELS AND/OR CONTROL PANELS.

3 2ND FLOOR DEMOLITION PLAN



2 **1ST FLOOR DEMOLITION PLAN** 1/8" = 1'-0"



BASEMENT DEMOLITION PLAN 1/8" = 1'-0"



KEYNOTE LEGEND

 #
 NOTE

 1
 DISCONNECT AND REMOVE WIRE, CONDUIT AND CIRCUITRY BACK TO SOURCE EXISTING BRANCH CIRCUIT BREAKER TO REMAIN FOR REUSE IN NEW WORK

 2
 REMOVE EXISTING DISCONNECT SWITCH. TURN DISCONNECT SWITCH OVER T



32'

CE PANEL.
TO OWNER.



POWER GENERAL NOTES

- A. REMOVE ALL UNUSED CABLING, WIRE AND CONDUIT IN THE AREA OF WORK. CONTRACTOR SHALL RE-SUPPORT CONDUITS WHERE EXISTING SUPPORTS ARE FOUND TO BE DEFICIENT. EXISTING LOOSE WIRING SHALL BE RE-SUPPORTED IN A NEAT AND WORKMANLIKE MANNER.
- B. COORDINATE LOCATIONS OF ALL DEVICES AND JUNCTION BOXES WITH THE EQUIPMENT INSTALLER.
- C. INSTALL NEW WIRING AND CONDUIT AS FOLLOWS:
- a. EXPOSED NONMETALLIC-SHEATHED CABLE (NM-B, FOR EXAMPLE) SHALL NOT BE ALLOWED.
- b. INTERIOR CIRCUITS RATED 30A OR LESS SHALL BE INSTALLED WITH METAL-CLAD (MC) CABLE. THE MC CABLE SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE SUPPORTED PER NEC REQUIREMENTS. MC CABLE SHALL NOT BE ALLOWED WHERE SUBJECT TO PHYSICAL DAMAGE, PER THE DISCRETION OF THE AHJ.
 c. INTERIOR CIRCUITS RATED ABOVE 30A SHALL BE INSTALLED IN CONDUITS.
- ALL CONDUITS SHALL BE SUPPORTED PER NEC REQUIREMENTS.
 EMT CONDUIT SHALL BE USED FOR INTERIOR INSTALLATION. HOWEVER, WHERE EXPOSED TO SEVERE PHYSICAL DAMAGE, PER THE DISCRETION OF THE AHJ, RGS CONDUIT SHALL BE USED.
- FINAL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE FLEXIBLE METALLIC CONDUIT (FMC).
 d. EXTERIOR CIRCUITS SHALL BE INSTALLED IN RGS CONDUIT. FINAL CONNECTIONS TO MECHANICAL EQUIPMENT
- 3. EXTERIOR CIRCUITS SHALL BE INSTALLED IN RGS CONDUIT. FINAL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE FMC. UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40.
- D. CONTRACTOR SHALL NOT INSTALL MORE THAN THREE CIRCUITS (3 PHASE WIRES, 1 NEUTRAL + 1 GROUND) IN A COMMON CONDUIT, EXCEPT WHERE SPECIFICALLY NOTED AND ALLOWED. WHERE MORE THAN THREE CURRENT CARRYING CONDUCTORS (EXAMPLES: 3 PHASE WIRES + 1 CURRENT CARRYING NEUTRAL CONDUCTOR) ARE INSTALLED IN A COMMON CONDUIT, THE AMPACITY OF ALL CURRENT-CARRYING CONDUCTORS SHALL BE DERATED PER 2014 NEC ARTICLE 310.15 (B)(3)(A). EXAMPLE: (6)-20AMP CKTS WITH 8 CURRENT CARRYING WIRES IN A COMMON CONDUIT MUST USE MINIMUM #10 WIRE 70% X 35A = 24.5 AMPS. MULTIWIRE CIRCUITS ARE NOT ALLOWED.
- E. CONDUIT PENETRATIONS OF EXTERIOR WALLS SHALL BE SEALED WATERTIGHT. WHERE POSSIBLE, THE CONTRACTOR SHALL RE-USE EXISTING PENETRATIONS FROM DEMOLISHED CONDUITS AND RE-SEAL THE PENETRATION PROPERLY.
- F. PROVIDE PERMANANT LABEL ON ALL DISCONNECT SWITCHES INDICATING POWER SOURCE AND CIRCUIT NUMBER.

3 2ND FLOOR NEW WORK PLAN



2 **1ST FLOOR NEW WORK PLAN** 1/8" = 1'-0"



1 BASEMENT NEW WORK PLAN



KEYNOTE LEGEND





32'

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AND SEAL ALL
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DATE	02/20/2018	10/21/2019	11/01/2019	04/24/2020	04/15/2022					
REVISION DESCRIPTION	35% SCHEMATIC DESIGN	75% - PRICING SET	REVISED 75% - PRICING SET	PROGRESS SET	ISSUED FOR CONSTRUCTION					
#	A	В	ပ	D	ш					
			OAKI AND MANOR				5430 VANTAGE POINT RD, COLUMBIA, MD 21044			
	ENGINEERS	PLANNERS	SCIENTISTS	CONSTRUCTION MANAGERS		SPARKS MD 71157	P C L PHONE: 410-316-7800	TECHNOLOGIES FAX: 410-316-7817		
			CERTIFICATION CONTRACTOR CONTRACT	R.S. BY DRI E S/111 IE C MI OF N DL/	DN. 1 DED OF ENGIN ENGIN BEF D011 AL/ ENN /200 TR ENN ZN EV	CERTIFIC ASPORT	G G G G G G G G G G G G G G G G G G G	- STHE	ese Laws	, ,
S	HEB	ET N	IUM	IBE	R	2				



1 ATTIC DEMOLITION PLAN



ELECTRICAL DEMOLITION GENERAL NOTES

- WERE SUPPORTED BY WALLS/MILLWORK BEING REMOVED.
- SERVICE. SIMILARLY FOR FIRE ALARM.
- BY E.C.
- EXTERIOR WALLS, THE E.C. SHALL SEAL THE EXISTING PENETRATION WATERTIGHT.
- REMOVED BACK TO PANELS AND/OR CONTROL PANELS.

POWER GENERAL NOTES

- SUPPORTED IN A NEAT AND WORKMANLIKE MANNER.
- C. INSTALL NEW WIRING AND CONDUIT AS FOLLOWS: a. EXPOSED NONMETALLIC-SHEATHED CABLE (NM-B, FOR EXAMPLE) SHALL NOT BE ALLOWED. b. INTERIOR CIRCUITS RATED 30A OR LESS SHALL BE INSTALLED WITH METAL-CLAD (MC) CABLE. THE MC CABLE SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE SUPPORTED PER NEC REQUIREMENTS. MC
- c. INTERIOR CIRCUITS RATED ABOVE 30A SHALL BE INSTALLED IN CONDUITS. ALL CONDUITS SHALL BE SUPPORTED PER NEC REQUIREMENTS.
- DAMAGE, PER THE DISCRETION OF THE AHJ, RGS CONDUIT SHALL BE USED.
- SHALL BE FMC. UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40.

A. PLANS DO NOT ATTEMPT TO SHOW ALL DEMOLITION ITEMS. SOME DEVICES AND SWITCHES ARE SHOWN FOR INFORMATION ONLY. THE ELECTRICAL CONTRACTOR (E.C.) SHALL FIELD VERIFY ALL DEMOLITION ITEMS AND PROVIDE REMOVAL OF ALL DEVICES ACCORDINGLY. SEE RELATED NOTES ON MAINTAINING SEVICE TO NON-DEMOLITION AREAS. REMOVE ALL WIRING BACK TO PANEL(S) UNLESS RE-USED FOR NEW AND/OR RELOCATED WORKS. EXISTING WIRING WITH ADEQUATE CAPACITY FOR NEW AND/OR EXISTING LOADS MAY BE RE-USED. SIMILARLY FOR FIRE ALARM SYSTEM CONDUIT/WIRE (REMOVE BACK TO CONTROL PANEL(S) IF NOT RE-USED). DAMAGE TO EXISTING MATERIALS/EQUIPMENT WILL BE REPAIRED AT NO ADDITIONAL COST TO OWNER. RE-SUPPORT ANY REMAINING CONDUIT OR DEVICE THAT

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C. E.C. SHALL FIELD INVESTIGATE EXISTING ELECTRICAL INSTALLATION. ALL EXISTING INSTALLATIONS IN THE AREAS OF WORK THAT ARE TO REMAIN BUT ARE NOT CURRENTLY IN COMPLIANCE WITH CURRENT CODES SHALL BE CORRECTED

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CABLE SHALL NOT BE ALLOWED WHERE SUBJECT TO PHYSICAL DAMAGE, PER THE DISCRETION OF THE AHJ.

 EMT CONDUIT SHALL BE USED FOR INTERIOR INSTALLATION. HOWEVER, WHERE EXPOSED TO SEVERE PHYSICAL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE FLEXIBLE METALLIC CONDUIT (FMC).

d. EXTERIOR CIRCUITS SHALL BE INSTALLED IN RGS CONDUIT. FINAL CONNECTIONS TO MECHANICAL EQUIPMENT

D. CONTRACTOR SHALL NOT INSTALL MORE THAN THREE CIRCUITS (3 PHASE WIRES, 1 NEUTRAL + 1 GROUND) IN A COMMON CONDUIT, EXCEPT WHERE SPECIFICALLY NOTED AND ALLOWED. WHERE MORE THAN THREE CURRENT CARRYING CONDUCTORS (EXAMPLES: 3 PHASE WIRES + 1 CURRENT CARRYING NEUTRAL CONDUCTOR) ARE INSTALLED IN A COMMON CONDUIT. THE AMPACITY OF ALL CURRENT-CARRYING CONDUCTORS SHALL BE DERATED PER 2014 NEC ARTICLE 310.15 (B)(3)(A). EXAMPLE: (6)-20AMP CKTS WITH 8 CURRENT CARRYING WIRES IN A COMMON CONDUIT MUST USE MINIMUM #10 WIRE 70% X 35A = 24.5 AMPS. MULTIWIRE CIRCUITS ARE NOT ALLOWED.

E. CONDUIT PENETRATIONS OF EXTERIOR WALLS SHALL BE SEALED WATERTIGHT. WHERE POSSIBLE, THE CONTRACTOR SHALL RE-USE EXISTING PENETRATIONS FROM DEMOLISHED CONDUITS AND RE-SEAL THE PENETRATION PROPERLY.

F. PROVIDE PERMANANT LABEL ON ALL DISCONNECT SWITCHES INDICATING POWER SOURCE AND CIRCUIT NUMBER.

KEYNOTE LEGEND

NOTE

- 1 REMOVE EXISTING DISCONNECT SWITCH. TURN DISCONNECT SWITCH OVER 2 DISCONNECT AND REMOVE WIRE, CONDUIT AND CIRCUITRY BACK TO SOURCE
- EXISTING BRANCH CIRCUIT BREAKER TO REMAIN FOR REUSE IN NEW WORK 3 REMOVE EXISTING DUCT HEATER, INCLUDING ALL ASSOCIATED CONDUIT, WI
- DISCONNECT SWITCHES. 4 REMOVE EXISTING CIRCUIT FOR MOTORIZED DAMPERS.
- 5 REMOVE EXISTING DUCT SMOKE DETECTOR. FIRE ALARM WIRING AND CIRCU FOR REUSE IN NEW WORK. MAKE ANY ADJUSTMENTS NECESSARY IN FIRE AL PANEL FOR REVISED EQUIPMENT
- 6 PROVIDE NEW MANUAL MOTOR SWITCH ADJACENT TO MECHANICAL UNIT AS 7 INSTALL NEW WIRING AND CONDUIT FROM EXISTING PANEL TO NEW DISCON
- AS SHOWN. EXTEND WIRING AND CONDUIT TO NEW MECHANICAL EQUIPMEN REFER TO ELECTRICAL PANEL SCHEDULES FOR WIRING AND CONDUIT SIZE /
- 8 PROVIDE NEW HEAVY DUTY DISCONNECT SWITCH, 30A/3P/240V/NF/NEMA 1 9 PROVIDE NEW HEAVY DUTY DISCONNECT SWITCH, 200A/3P/240V/NF/NEMA 1. 10 RECONNECT EXISTING FIRE ALARM WIRING AND CIRCUITRY TO NEW DUCT SI
- DETECTOR. AFTER INSTALLATION, CONTRACTOR SHALL CONFIRM OPERATIO SMOKE DETECTOR WITH EXISTING FIRE ALARM SYSTEM AND SHALL MAKE ANY ADJUSTMENTS NECESSARY IN FIRE ALARM CONTROL PANEL FOR REVISED EQUIPMENT.

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S SHOWN.	
NNECT SWITCH,	
NT, AS SHOWN.	
AND QUANTITY.	

DATE	02/20/2018	10/21/2019	11/01/2019	04/24/2020	04/15/2022					
REVISION DESCRIPTION	35% SCHEMATIC DESIGN	75% - PRICING SET	REVISED 75% - PRICING SET	PROGRESS SET	ISSUED FOR CONSTRUCTION					
#	٩	B	ပ	D	Ш					
							5430 VANTAGE POINT RD, COLUMBIA, MD 21044			
	ENGINEERS	PLANNERS	SCIENTISTS	CONSTRUCTION MANAGERS		SPARKS MD 21152	LCCL PHONE: 410-316-7800	TECHNOLOGIES FAX: 410-316-7817		
			CERT PI FRE PI F MAP T N BY G.I DAT JAM CTI 10 V	R.S. BY DRI E S/11 IE RI(LI /O		CERTIN APPER 065 AS VINC 22	G AT A A A A A A		C S S	,
S	HEE	ET N	IUM	IBE	R	3				

	E	Supp Mountin Enclosu	oly: ng: SU Ire: TYI	RFAC PE 1	E	
СКТ	Circuit Description	Trip	Poles	C.	Wire Size	Α
1	RECEPTACLE	20 A	1		EXISTING	0.00
3	KITCHEN (ICE	20 A	1		EXISTING	
5	KITCHEN COFFEE	20 A	1		EXISTING	
7	HEAT PUMP #9	20 A	2		EXISTING	0.00
9						
11	HOT CAB. KITCHEN	20 A	1		EXISTING	
13	GFI RECPT KITCHEN	20 A	1		EXISTING	0.00
15	LIGHTS	20 A	1		EXISTING	
17	RECPT - KITCHEN	20 A	1		EXISTING	
19	RECPT - BASEMENT	20 A	1		EXISTING	0.00
21	RECEPTACLE	20 A	1		EXISTING	
23	KITCHEN - FREEZER	20 A	1		EXISTING	
25	RECEPTACLE	20 A	1		EXISTING	0.00
27	HEAT PUMP #7	15 A	1		EXISTING	
29	HEAT PUMP #7	15 A	1		EXISTING	
31	RECPT GAITHER	20 A	1		EXISTING	0.00
33	RECPT GAITHER	20 A	1		EXISTING	
35	RECEPTACLE	20 A	1		EXISTING	
37	RECEPTACLE	20 A	1		EXISTING	0.00
39	RECPT - PORCH	20 A	1		EXISTING	
41	Spare	20 A	1		EXISTING	
		Total	Load:			
		Total	Amps:			
Notes:						

	Location: MECHANICAL B107 Supply : Mounting: SURFACE Enclosure: TYPE 1				Volts: 208Y/120 Phases: 3 Wires: 4					A.I.C. Rating: Mains Type: Mains Rating: 200 A MCB Rating: 200 A							
СКТ	Circuit Description	Trip	Poles	C.	Wire Size	Α	В	С	Α	В	С	Wire Size	C.	Poles	Trip	Circuit Description	СКТ
1	Space					0.00			0.00			EXISTING		3	30 A	BALL ROOM CU	2
3	Space						0.00			0.00							4
5	AHU #5	15 A	2	3/4	2#12, 1#12 GND			0.51			0.00						6
7						0.51			0.00							Space	8
9	AHU #6	15 A	2	3/4	2#12, 1#12 GND		0.51			0.00						Space	10
11								0.51			0.00					Space	12
13	AHU #7	15 A	2	3/4	2#12, 1#12 GND	0.06			0.00			EXISTING		3	30 A	FRNT STEP HEATER	14
15							0.06			0.00							16
17	AHU #8	15 A	2	3/4	2#12, 1#12 GND			0.04			0.00						18
19						0.04			0.07			2#12, 1#12 GND	3/4	2	15 A	BS-1	20
21	AHU #9	15 A	2	3/4	2#12, 1#12 GND		0.51			0.07							22
23								0.51			0.29	2#12, 1#12 GND	3/4	2	15 A	AHU #11	24
25	AHU #2	15 A	2	3/4	2#12, 1#12 GND	0.17			0.29								26
27							0.17			0.00						Space	28
29	AHU #3	15 A	2	3/4	2#12, 1#12 GND			0.29			0.00					Space	30
31						0.29			0.00							Space	32
33	Space						0.00			0.00						Space	34
35	Space							0.00			0.00					Space	36
37	Space					0.00			0.00							Space	38
39	Space						0.00			0.00						Space	40
41	Space							0.00			0.00					Space	42
		Total	Load:			1	1.4	1	.3	2.	2						
		Total A	Amps:			1:	2 A	11	1 A	18	A						

Volts: 208Y/120

Wires	: 4			Mai Me	ins Rati CB Rati	ng: 22 ng: 22	5 A 5 A		
С	Α	в	С	Wire Size	C.	Poles	Trip	Circuit Description	ск
	0.00			EXISTING		1	20 A	RECPT 1ST FLOOR	2
		0.00		EXISTING		1	20 A	KITCHEN RECPT	4
0.00			0.00	EXISTING		1	20 A	RECPT BASEMENT	6
	0.00			EXISTING		1	20 A	A/C #3 BASEMENT	8
		0.00		EXISTING		1	20 A	A/C #3 BASEMENT	10
0.00			0.00	EXISTING		2	20 A	HEAT PUMP #3	12
	0.00								14
		0.00		EXISTING		1	20 A	LOBBY LIGHTS	16
0.00			0.00	EXISTING		1	20 A	SEC. PNL, RECPT	18
	0.00			EXISTING		1	20 A	LIGHTS BASEMENT	20
		0.00		EXISTING		1	20 A	EM. LT, RECPT	22
0.00			0.00	EXISTING		1	20 A	RECPT BASEMENT	24
	0.00			EXISTING		1	20 A	RECPT CONF. RM	26
		0.00		EXISTING		2	40 A	HEAT PUMP #8	28
0.00			0.00						30
	0.00			EXISTING		1	20 A	RECPT DINING RM	32
		0.00		EXISTING		1	20 A	RECPT DINING RM	34
0.00			0.00	EXISTING		1	20 A	ELEC RM LIGHTS	36
	0.00			EXISTING		1	20 A	PUMP ELEC RM	38
		0.00		EXISTING		2	60 A	CONVEC. OVEN	40
0.00			0.00						42
	0.0 0 A	0.	0 A						

A.I.C. Rating:



PANEL SCHEDULE KEYNOTES

- $\langle 1 \rangle$ REMOVE EXISTING 30A, 3-POLE CIRCUIT BREAKER LABELED "AHU #9" $\langle 2 \rangle$ REMOVE EXISTING 50A, 3-POLE CIRCUIT BREAKER LABELED "AHU #11" $\langle \overline{\textbf{3}} \rangle$ REMOVE EXISTING 35A, 3-POLE CIRCUIT BREAKER LABELED "CU-9" $\langle \overline{4} \rangle$ REMOVE EXISTING 35A, 3-POLE CIRCUIT BREAKER LABELED "CU-11" $\langle 5 \rangle$ REMOVE EXISTING 20A, 3-POLE CIRCUIT BREAKER LABELED "CU-10" $\langle \widehat{}^6
 angle$ REMOVE EXISTING 70A, 3-POLE CIRCUIT BREAKER LABELED "AHU #10"

 7
 REMOVE EXISTING 70A, 3-POLE CIRCUIT BREAKER LABELED "AHU #6"

 8 REMOVE EXISTING 20A, 1-POLE CIRCUIT BREAKER LABELED "DUCT EXHAUST"
- $\langle \mathfrak{P}
 angle$ REMOVE EXISTING 35A, 3-POLE CIRCUIT BREAKER LABELED "CU-1B"
- (10) REMOVE EXISTING 90A, 3-POLE CIRCUIT BREAKER LABELED "AHU #1"
- $\langle 11 \rangle$ REMOVE EXISTING 80A, 3-POLE CIRCUIT BREAKER LABELED "AHU #2"
- $\langle 12 \rangle$ REMOVE EXISTING 60A, 3-POLE CIRCUIT BREAKER LABELED "AHU #3" $\langle 13 \rangle$ REMOVE EXISTING 90A, 3-POLE CIRCUIT BREAKER LABELED "AHU #5"
- $\langle \overline{14} \rangle$ REMOVE EXISTING 45A, 3-POLE CIRCUIT BREAKER LABELED "CU-2"

I E	Location: MECHANICAL B107 Supply: Mounting: SURFACE Enclosure: TYPE 1					Volts: 208Y/120 Phases: 3 Wires: 4					A.I.C. Rating: Mains Type: Mains Rating: 1200 A MCB Rating: 1000 A					
cription	Trip	Poles	C.	Wire Size	Α	В	С	Α	В	С	Wire Size	C.	Poles	Trip	Circuit Description	скт
NNECT	1000 A	3		EXISTING	0.00			0.00								2
						0.00			0.00							4
							0.00			0.00						6
	225 A	3		EXISTING	0.00			0.00			EXISTING		3	125 A	WATER HEATER	8
						0.00			0.00							10
							0.00			0.00						12
	225 A	3		EXISTING	0.00			0.00			EXISTING		3	200 A	PANEL A1	14
						0.00			0.00							16
							0.00			0.00						18
	50 A	3	3/4	3#8, 1#10 GND	4.20			10.67			3#1, 1#6 GND	1.5	3	125 A	EDH-1 DUCT HEATER	20
						4.20			10.67							22
							4.20			10.67						24
	50 A	3	3/4	3#8, 1#10 GND	4.20			7.63			3#4, 1#8 GND	1.25	3	80 A	AHU-10	26
						4.20			7.63							28
							4.20			7.63						30
TSIDE)	100 A	3		EXISTING	0.00			1.83			3#12, 1#12 GND	3/4	3	20 A	DOAS-1	32
						0.00			1.83							34
							0.00			1.83						36
	100 A	3		EXISTING	0.00			10.47	10.17		3#2, 1#6 GND	1.5	3	110 A	DOAS-2	38
						0.00			10.47	10.17						40
					5 .00		0.00	0.00		10.47						42
	70 A	3	1	3#4, 1#8 GND	5.60	5.00		6.00	0.00		3#4, 1#8 GND	1	3	70 A	CU-1	44
						5.60	5.00		6.00	0.00						40
					0.00		5.60	0.00		6.00						48
	50 A	3		EXISTING	0.00	0.00		0.00	0.00							50
						0.00	0.00		0.00	0.00						52
							0.00			0.00					NOT AVAILABLE	54
	Total Load:					50.6		50.6		.6						
	Total Amps:					422 A		422 A		2 A 2						

PANEL SCHEDULE GENERAL NOTES

- 1. ALL PANELS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
- 2. SEE NEW WORK FLOOR PLANS FOR NEW EQUIPMENT LOCATIONS. NOT ALL EXISTING EQUIPMENT IS SHOWN ON THE FLOOR PLANS. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING EQUIPMENT AS REQUIRED.
- 3. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CIRCUITS TO BE REMOVED IN THEIR ENTIRETY PRIOR TO REMOVAL. THE CONTRACTOR IS RESPONSIBLE TO COMPLETELY REMOVE CIRCUITS FROM THE LOAD BACK TO THE SOURCE PANEL, INCLUDING ALL WIRING, CONDUITS, JUNCTION BOXES AND OTHER WIRING DEVICES. NO WIRING SHALL BE ABANDONED IN PLACE.
- 4. CONTRACTOR SHALL COMPLY WITH NFPA 70E. LOCKOUT/TAGOUT PROCEDURES SHALL BE STRICTLY FOLLOWED FOR WORK ON EQUIPMENT. WHERE NECESSARY, WEAR APPROPRIATE PPE WHEN WORKING ON ENERGIZED ELECTRICAL PANELS.
- 5. DEMOLITION AND NEW WORK SHALL BE PHASED TO MINIMIZE ELECTRICAL OUTAGES ON THE SYSTEM. ALL ELECTRICAL OUTAGES, INCLUDING START TIME AND ANTICIPATED DURATION, SHALL BE COORDINATED WITH THE OWNER AT LEAST FIVE DAYS BEFORE OUTAGE OCCURS.
- 6. CONTRACTOR SHALL RE-LABEL EXISTING CIRCUIT DIRECTORIES FOR ALL AFFECTED PANELBOARDS. PROVIDE NEW PRINTED CIRCUIT DIRECTORIES.
- 7. ALL NEW AND EXISTING SPACES IN PANELBOARDS SHALL BE COVERED WITH FILLER PLATES, FURNISHED BY THE SAME MANUFACTURER OF THE PANELBOARD AND SIZED APPROPRIATELY.
- 8. NEW CIRCUIT BREAKERS, AS SHOWN, SHALL BE THE SAME TYPE AND KIND AS EXISTING CIRCUIT BREAKERS IN EXISTING PANEL. CONTRACTOR IS RESPONSIBLE TO VERIFY TYPE AND KIND OF CIRCUIT BREAKERS THAT ARE SUITABLE PRIOR TO INSTALLATION. THE AIC RATING OF THE NEW BREAKERS SHALL MATCH THE AIC RATING OF THE PANEL.
- 9. MECHANICAL AIR HANDLERS MAY REQUIRE GFCI CIRCUIT BREAKERS. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE GFCI REQUIREMENTS WITH THE MANUFACTURER AND SHALL INSTALL GFCI BREAKERS WHERE SPECIFIED BY THE MANUFACTURER'S INSTRUCTIONS.

DATE	02/20/2018	10/21/2019	11/01/2019	04/24/2020	04/15/2022					
REVISION DESCRIPTION	35% SCHEMATIC DESIGN	75% - PRICING SET	REVISED 75% - PRICING SET	PROGRESS SET	ISSUED FOR CONSTRUCTION					
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							5430 VANTAGE POINT RD, COLUMBIA, MD 21044			
ENGINEERS PLANNERS PLANNERS SCIENTISTS										
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