

ABBREVIATIONS				GENERAL NOTES				DRAWING LIST																																																																					
ABS	ABSOLUTE	MECH	MECHANICAL	1.	ALL WORK IS TO CONFORM WITH THE [INSERT CODE YEAR] NATIONAL ELECTRICAL CODE AND ALL APPLICABLE CODES, REGULATIONS AND STANDARDS. NOT ALL CODE REQUIREMENTS HAVE BEEN DESCRIBED IN THIS SPECIFICATION OR INDICATED ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE CODES AND INSTALL THE WORK IN ACCORDANCE WITH CODES.			<div>MOUNT SAINT MARY COLLEGE- GUZMAN HALL</div> <table><tr><td>E0.1</td><td>COVER SHEET</td><td>- ELECTRICAL</td><td>●</td><td>●</td><td>●</td></tr><tr><td>DE1.1</td><td>GROUND FLOOR DEMO PLAN</td><td>- ELECTRICAL</td><td>●</td><td>●</td><td>●</td></tr><tr><td>DE1.2</td><td>FIRST FLOOR DEMO PLAN</td><td>- ELECTRICAL</td><td>●</td><td>●</td><td>●</td></tr><tr><td>E1.1</td><td>GROUND FLOOR PLAN - LIGHTING</td><td>- ELECTRICAL</td><td>●</td><td>●</td><td>●</td></tr><tr><td>E1.2</td><td>FIRST FLOOR PLAN - LIGHTING</td><td>- ELECTRICAL</td><td>●</td><td>●</td><td>●</td></tr><tr><td>E1.3</td><td>GROUND FLOOR PLAN - POWER</td><td>- ELECTRICAL</td><td>●</td><td>●</td><td>●</td></tr><tr><td>E1.4</td><td>FIRST FLOOR PLAN - POWER</td><td>- ELECTRICAL</td><td>●</td><td>●</td><td>●</td></tr><tr><td>E2.1</td><td>DETAILS & SCHEDULES</td><td>- ELECTRICAL</td><td>●</td><td>●</td><td>●</td></tr><tr><td>E2.2</td><td>DETAILS & SCHEDULES</td><td>- ELECTRICAL</td><td>●</td><td>●</td><td>●</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> <div>Issued for Permit 07/19/21</div> <div>Issued for Bid Set 08/27/2021</div> <div>Issued for Bid Revision #2 11/22/2021 x6/x6/x6</div>				E0.1	COVER SHEET	- ELECTRICAL	●	●	●	DE1.1	GROUND FLOOR DEMO PLAN	- ELECTRICAL	●	●	●	DE1.2	FIRST FLOOR DEMO PLAN	- ELECTRICAL	●	●	●	E1.1	GROUND FLOOR PLAN - LIGHTING	- ELECTRICAL	●	●	●	E1.2	FIRST FLOOR PLAN - LIGHTING	- ELECTRICAL	●	●	●	E1.3	GROUND FLOOR PLAN - POWER	- ELECTRICAL	●	●	●	E1.4	FIRST FLOOR PLAN - POWER	- ELECTRICAL	●	●	●	E2.1	DETAILS & SCHEDULES	- ELECTRICAL	●	●	●	E2.2	DETAILS & SCHEDULES	- ELECTRICAL	●	●	●												
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AC	ALTERNATING CURRENT	MCC	MOTOR CONTROL CENTER	2.	OBTAIN AND PAY FOR ALL BUILDING PERMITS, INSPECTIONS, CONNECTION CHARGES, AND FEES.																																																																								
AFF	ABOVE FINISHED FLOOR	MCM	THOUSAND CIRCULAR MILLS	3.	PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SUPERVISION NECESSARY TO INSTALL COMPLETE OPERATING ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN, INCLUDING ALL SITE WORK ON THE SITE AND WITHIN THE PROPOSED CONSTRUCTION AREAS TO ACCOMPLISH THE REQUIRED WORK.																																																																								
AHU	AIR HANDLING UNIT	MFR	MANUFACTURER	4.	THE CONTRACTOR IS TO BE RESPONSIBLE FOR COORDINATION OF ALL WORK ASSOCIATED WITH THE ELECTRIC UTILITY COMPANY. MAKE ALL ARRANGEMENTS IN A TIMELY FASHION FOR CONNECTION OF THE ELECTRICAL SERVICE.																																																																								
AMP, A	AMPERE	MH	MANHOLE, MOUNTING HEIGHT	5.	DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE TAKEN AS A WHOLE. IF A CONFLICT OR CONTRADICTION EXISTS BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT WILL APPLY. THE ARCHITECT'S AND ENGINEER'S INTERPRETATION OF THE DOCUMENTS ARE TO BE BINDING UPON THE CONTRACTOR.																																																																								
APP	APPROVED	MIN	MINIMUM	6.	PROVIDE SHOP DRAWINGS OF ALL EQUIPMENT FOR REVIEW PRIOR TO ORDERING. COORDINATE ALL PHYSICAL DIMENSIONS PRIOR TO SHOP DRAWING SUBMISSION.																																																																								
APPROX	APPROXIMATE	MISC	MISCELLANEOUS	7.	IF THE CONTRACTOR ELECTS TO SUBMIT ALTERNATE EQUIPMENT, MANUFACTURERS, SYSTEMS, METHODS, OR MATERIALS NOT SPECIALLY IDENTIFIED IN THE DRAWINGS AND SPECIFICATIONS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE WORK WITH OTHER TRADES AND PAY FOR ANY ADDITIONAL COSTS ASSOCIATED WITH THE SUBSTITUTION OR CHANGE.																																																																								
ATS	AUTOMATIC TRANSFER SWITCH	MLO	MAIN LUG ONLY	8.	THE CONTRACTOR IS TO SURVEY AND VERIFY ALL EXISTING CONDITIONS PRIOR TO BID SUBMISSION AND BECOME AWARE OF ALL CONDITIONS WHICH MAY IMPACT THE REQUIRED WORK. CONTRACTOR IS TO INCLUDE ALL ASSOCIATED COSTS (MATERIALS/ LABOR) DETERMINED TO BE REQUIRED DURING SITE INSPECTIONS. CONTRACTOR'S BID SUBMISSION IS TO BE CONSIDERED PROOF THAT THIS REQUIREMENT HAS BEEN MET.																																																																								
AVG	AVERAGE	MDO	MOTOR OPERATED DAMPER	9.	FINAL LOCATIONS OF ALL DEVICES IN FINISHED SPACES ARE TO BE COORDINATED, AND APPROVED BY THE ARCHITECT/ OWNER PRIOR TO ROUGH-IN AND INSTALLATION.																																																																								
BLDG	BUILDING	MTD	MOUNTED	10.	COORDINATE LOCATIONS AND ROUGH-IN REQUIREMENTS WITH ALL TRADES PRIOR TO INSTALLATION.																																																																								
C	CONDUIT	(N)	NEW	11.	PROVIDE 3/8" = 1'-0" SCALE DRAWINGS OF THE MAIN ELECTRICAL ROOM INDICATING ALL ELECTRICAL, MECHANICAL, PLUMBING, TELEPHONE, SECURITY, FIRE ALARM, AND LIFE SAFETY EQUIPMENT TO BE INSTALLED WITHIN THIS ROOM. ALL EXACT DIMENSIONS OF EQUIPMENT, PADS, ETC., ARE TO BE INDICATED. PROVIDE TWO CROSS-SECTIONS AT IMPORTANT POINTS. OBTAIN INFORMATION FROM OTHER SUB-CONTRACTORS AS NEEDED, AND APPROPRIATE. SUBMIT THE ABOVE FOR REVIEW, AND APPROVAL, ALONG WITH ELECTRICAL EQUIPMENT SUBMITTALS. EQUIPMENT WILL NOT BE APPROVED PRIOR TO REVIEW OF THIS DRAWING.																																																																								
CB	CIRCUIT BREAKER	NA	NOT APPLICABLE	12.	PROVIDE ADDRESSABLE FIRE ALARM SYSTEM WITH BATTERY BACKUP, HORN/ STROBES, MANUAL PULL STATIONS, DETECTORS, STROBES, DUCT DETECTORS, REMOTE ANNUNCIATOR, ELEVATOR CONTROLS (FOR RECALL AND DE-ENERGIZING), TELEPHONE AUTO DIALER, FIRE-FIGHTER PHONES, AND ALL ASSOCIATED CONTROLS, AND APPURTENANCES.																																																																								
COL	COLUMN	N.C.	NORMALLY CLOSED	13.	PROVIDE POWER TO HVAC AND PLUMBING EQUIPMENT AS REQUIRED FOR COMPLETE, OPERATIONAL SYSTEMS.																																																																								
CONN	CONNECTION	NEUT.	NEURAL	14.	PROVIDE LIGHTING THROUGH-OUT, WITH EXTERIOR LIGHTING AT ALL EGRESS DOORS.																																																																								
CONT	CONTINUED	NC	NOT IN CONTRACT	15.	THE CONTRACTOR IS TO BE RESPONSIBLE FOR SELECTING PARTICULAR MOUNTING ARRANGEMENTS OF FIXTURES TO SUIT THE CONSTRUCTION, OR CEILING TYPE. THE CONTRACTOR OR HIS AGENT IS TO REVIEW ALL ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS TO VERIFY ALL CEILING TYPES PRIOR TO PREPARING SHOP DRAWINGS FOR SUBMISSION. IT IS NOT TO BE UNDERSTOOD THAT THE LIGHTING FIXTURE SCHEDULE ACCOUNTS FOR THE MOUNTING TYPES. CEILING TYPES ARE FREQUENTLY CHANGED AFTER THE SCHEDULE HAS BEEN COMPLETED.																																																																								
CONTR	CONTRACTOR	NL	NIGHT LIGHT	16.	FIXTURES AND DEVICES RECESSED IN A FIRE-RATED CEILING ARE TO BE PROVIDED WITH A FIRE-RATED ENCLOSURE THAT MAINTAINS THE FIRE-RATING OF THE CEILING SYSTEM. THE INSTALLATION OF THE ENCLOSURE IS TO MEET THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. WHERE APPLICABLE, FIXTURES AND DEVICES ARE TO BE RATED FOR INSULATION CONTACT (IC) FOR HIGH-TEMPERATURE OPERATION.																																																																								
DB	DECIBEL	N.O.	NORMALLY OPEN	17.	ALL ROOMS ARE TO BE PROVIDED WITH LIGHTING CONTROLS. PROVIDE MANUAL SWITCH(ES) AND APPROPRIATE, CODE-REQUIRED LIGHTING CONTROL DEVICES, WIRING METHODS, AND COMPONENTS.																																																																								
DES	DEGREE	NO.	NUMBER	18.	PROVIDE EGRESS AND EMERGENCY LIGHTING AS REQUIRED BY CODE IN ALL SPACES TO MEET REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. ALLOW FOR TEN ADDITIONAL FIXTURES TO BE INSTALLED WHERE DIRECTED BY THE AUTHORITY HAVING JURISDICTION.																																																																								
DN	DOWN	NTS	NOT TO SCALE	19.	PROVIDE GROUNDING SYSTEM FOR FACILITY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.																																																																								
DO	DOUBLE THROW	OH	OVERHEAD	20.	PROVIDE ROOF PENETRATIONS FOR ALL ASSOCIATED ELECTRICAL WORK.																																																																								
DWG	DRAWING	DHD	DOOR OVERHEAD DOOR	21.	ALL DEVICES ARE TO BE INSTALLED SQUARE, LEVEL, PLUMB, AND TRUE.																																																																								
(E)	EXISTING	%	PERCENT	22.	SWITCH PLATES AND OUTLET BACKBOXES ARE NOT TO BE INSTALLED BACK-TO-BACK IN ADJACENT ROOMS. BACKBOX LOCATIONS ARE TO BE OFFSET A MINIMUM OF 0'-3" TO REDUCE NOISE TRANSFER. THIS APPLIES TO RECEPTACLES, LIGHTING FIXTURES, TV OUTLETS, TELEPHONE OUTLETS, AND DATA OUTLETS.																																																																								
E.C.	ELECTRICAL CONTRACTOR	PB	PUSH BUTTON	23.	ALL DEVICES LOCATED ON OPPOSING SIDES OF A FIRE-RATED WALL ASSEMBLY ARE TO BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 2'-0".																																																																								
EF	EXHAUST FAN	PH	PHASE-ELECTRICAL	24.	GROUND FAULT CIRCUIT INTERRUPTERS ARE TO BE PROVIDED FOR ALL OUTDOOR RECEPTACLE CIRCUITS, RECEPTACLE CIRCUITS WITHIN TOILET AND BATHROOMS, AREAS IN CLOSE PROXIMITY TO WATER, AND WHEREVER ELSE INDICATED ON THE DRAWINGS OR AS REQUIRED BY CODE. WHILE-IN-USE TYPE COVERS ARE TO BE USED FOR ALL EXTERIOR LOCATIONS.																																																																								
EL	ELEVATION	PNL	PANEL	25.	PROVIDE CODE REQUIRED SIGNAGE (I.E., NEC 110.34, NEC 700.8, AND 695.4 B3).																																																																								
ELEC	ELECTRICAL	PVC	POLYVINYL CHLORIDE PIPE	26.	PROVIDE THIRD-PARTY CERTIFICATION OF ALL PACKAGED SYSTEMS BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) IN ACCORDANCE WITH OSHA FEDERAL REGULATIONS 29CFR1910.303 AND .399 AS WELL AS PAMPHLET #70 AND NATIONAL ELECTRICAL CODE ARTICLE 90-7.																																																																								
EQ	EQUAL	(R)	REMOVE EXISTING	27.	ALL EQUIPMENT PANELS, CONTROLS, SAFETY SWITCHES, AND DEVICES ARE TO BE PROVIDED WITH PERMANENT BLACK LAMINATED MICARTA WHITE CORE LABELS WITH 3/8" LETTERS. THIS ALSO APPLIES TO ALL CONTROLLERS, REMOTE START/ STOP PUSHBUTTONS, EQUIPMENT CABINETS, AND WHERE DIRECTED BY THE ARCHITECT AND ENGINEER. THIS REQUIREMENT DOES NOT APPLY TO INDIVIDUAL ROOM THERMOSTATS, AND LOCAL LIGHTING CONTROL DEVICES.																																																																								
EQUIP	EQUIPMENT	(RE)	RELOCATE EXISTING	28.	ALL THREE PHASE STARTER EQUIPMENT IS TO BE PROVIDED BY THE MECHANICAL CONTRACTOR AND IS TO BE MAGNETIC, ACROSS-THE-LINE WITH AUXILIARY CONTACTS. ALL SINGLE PHASE STARTER EQUIPMENT IS TO BE PROVIDED BY ELECTRICAL CONTRACTOR.																																																																								
ENC	ELECTRIC WATER COOLER	R&D	RESEARCH & DEVELOPMENT	29.	ALL WORK IS TO BE CONCEALED, UNLESS OTHERWISE INDICATED.																																																																								
ENH	ELECTRIC WATER HEATER	REQ	REQUIRED	30.	ALL EXPOSED INTERIOR WIRING, PANEL FEEDERS, HOME RUNS, AND EQUIPMENT FEEDERS ARE TO BE INSTALLED IN EMT (ELECTRICAL METALLIC TUBING). ALL EMT IS TO BE SECURELY FASTENED AT INTERVALS NOT EXCEEDING 10'-0" AND WITHIN 3'-0" OF ALL BOXES. NOTE: "EXPOSED" INDICATES ALL WIRING METHODS NOT INSTALLED WITHIN WALLS, ABOVE SUSPENDED CEILINGS, OR WITHIN A PRE-MANUFACTURED RACEWAY. ANY EXPOSED RACEWAY IN A FINISHED SPACE IS TO BE COORDINATED WITH THE ARCHITECT/ ENGINEER PRIOR TO INSTALLATION.																																																																								
EXT	EXTERIOR	RM	ROOM	31.	ALL CONCEALED BRANCH CIRCUIT WIRING METHODS INSTALLED ABOVE SUSPENDED CEILINGS, AND IN STUD PARTITIONS IS TO BE MC (METAL CLAD) CABLE. MC CABLE IS TO BE SECURELY FASTENED AT INTERVALS NOT EXCEEDING 4'-6", AND WITHIN 1'-0" OF ALL BOXES AND/OR FITTINGS.																																																																								
°F	DEGREE FAHRENHEIT	SCH	SCHEDULE	32.	PROPERLY INSTRUCT OWNER'S PERSONNEL IN THE OPERATION AND MAINTENANCE OF ALL SYSTEMS AND EQUIPMENT. PROVIDE THREE INSTRUCTION AND MAINTENANCE MANUALS. SUBMIT MANUALS FOR REVIEW PRIOR TO OPERATING INSTRUCTION.																																																																								
FACP	FIRE ALARM CONTROL PANEL	SF	SQUARE FEET	33.	PROVIDE RECORD AS-BUILT DRAWINGS AND CAD DISK AT COMPLETION OF WORK. SUBMIT TO OWNER AND ENGINEER FOR REVIEW AND APPROVAL.																																																																								
FBO	FURNISHED BY OTHERS	SPO	SURGE PROTECTION DEVICE																																																																										
FD	FLOOR DRAIN	SPEC	SPECIFICATION																																																																										
FDC	FIRE DEPARTMENT CONNECTION	SQ	SQUARE																																																																										
FHC	FIRE HOSE CABINET	SS	SAFETY SWITCH																																																																										
FIN	FINISH	ST	SINGLE THROW																																																																										
FF	FINISHED FLOOR	STD	STANDARD																																																																										
FLR	FLOOR	STL	STEEL																																																																										
FT	FEET	STRUC	STRUCTURAL																																																																										
FUF	FUSED	SW	SWITCH																																																																										
GALV	GALVANIZED	SWBD	SWITCHBOARD																																																																										
GFC	GROUND FAULT CURRENT INTERRUPTER	SWGR	SWITCHGEAR																																																																										
GRD, GND	GROUND	TEMP	TEMPERATURE																																																																										
GMH	GAS WATER HEATER	TEL	TELEPHONE																																																																										
HC	HANDICAP	THERM	THERMOMETER																																																																										
HP	HORSEPOWER	TYP	TYPICAL																																																																										
HR	HOUR	UG	UNDERGROUND																																																																										
HT	HEIGHT	UH	UNIT HEATER																																																																										
HTR	HEATER	UL	UNDERWRITER'S LABORATORY																																																																										
HV	HIGH VOLTAGE	U.O.N.	UNLESS OTHERWISE NOTED																																																																										
HVAC	HEATING VENTILATION AIR CONDITIONING	UTL	UTILITY																																																																										
HZ	FREQUENCY-ELECTRICAL	V	VOLTS																																																																										
ID	INSIDE DIAMETER	VB	VACUUM BREAKER																																																																										
ID	INDIRECT DRAIN	VERT	VERTICAL																																																																										
JB	JUNCTION BOX	VFD	VARIABLE FREQUENCY DRIVE																																																																										
KV	KILOVOLTS	VIF	VERIFY IN FIELD																																																																										
KVA	KILOVOLT AMPERE	VPC	VA PHOTOCCELL																																																																										
KW	KILOWATT	VTC	VIA TIME CLOCK																																																																										
KWH	KILOWATT HOUR	W	WIRE																																																																										
LF	LINEAR FEET	W/	WITH																																																																										
LV	LOW VOLTAGE	WP	WEATHERPROOF																																																																										
MAU	MAKE-UP AIR UNIT	W/O	WITHOUT																																																																										
MAX	MAXIMUM	XFMR	TRANSFORMER																																																																										
MCB	MAIN CIRCUIT BREAKER	YR	YEAR																																																																										
CONTRACTOR NOTES				PROJECT DEDUCT/ ADD ALTERNATES																																																																									
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