SECTION 00 90 01

BIDDING AND CONTRACT REQUIREMENTS ADDENDUM NUMBER 1

Distributed via: Email

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To: Prospective Bidders

Re: ADDENDUM NUMBER 1 TO THE BIDDING DOCUMENTS FOR:

Oak Brook Park District Central Park West Mechanical Renovations Architect's Project Number: 220005.00

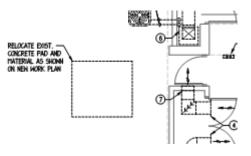
This addendum forms a part of the bidding and contract documents and modifies the original bidding documents dated November 22, 2019. Acknowledge receipt of this addendum in the space provided on Bid Form. FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.

I. PART 1 - ADDENDUM TO THE PROJECT MANUAL

- A. Document Table of Contents.
 - 1. Page TOC-1:
 - a. ADD the following item(s) after "00 90 01 Addendum Number 1":
 - "00 90 01 Addendum Number 1"

II. PART 2 - ADDENDUM TO THE DRAWINGS – CENTRAL PARK WEST MECHANICAL RENOVATIONS

- A. See attached drawings to be included as part of the drawing bid documents.
 - 1. ADD drawing E-201, titled, "Electrical Floor Plans."
 - 2. ADD drawing E-301, titled, "Electrical Notes, Schedules, and Symbol Legend."
- B. Drawing M-101, titled, "Main Floor HVAC Demo Plans".
 - 1. At drawing 1/M-101, titled, "First Floor HVAC Demolition Plan".
 - a. REVISE note to read as follows:
 - "Existing concrete foundations to be removed Salvage existing wood framed screen and relocate at the owners discression", in lieu of "Relocate existing concrete pad and material as shown on new work plan." – See snapshot of existing note location below.



- C. Drawing M-201, titled, "First Floor HVAC Plans".
 - 1. At the Equipment Schedule
 - a. DELETE equipment tag labeled "RTU-1" and all associated notes with it.
 - 2. On sheet, near the Equipment Schedule.

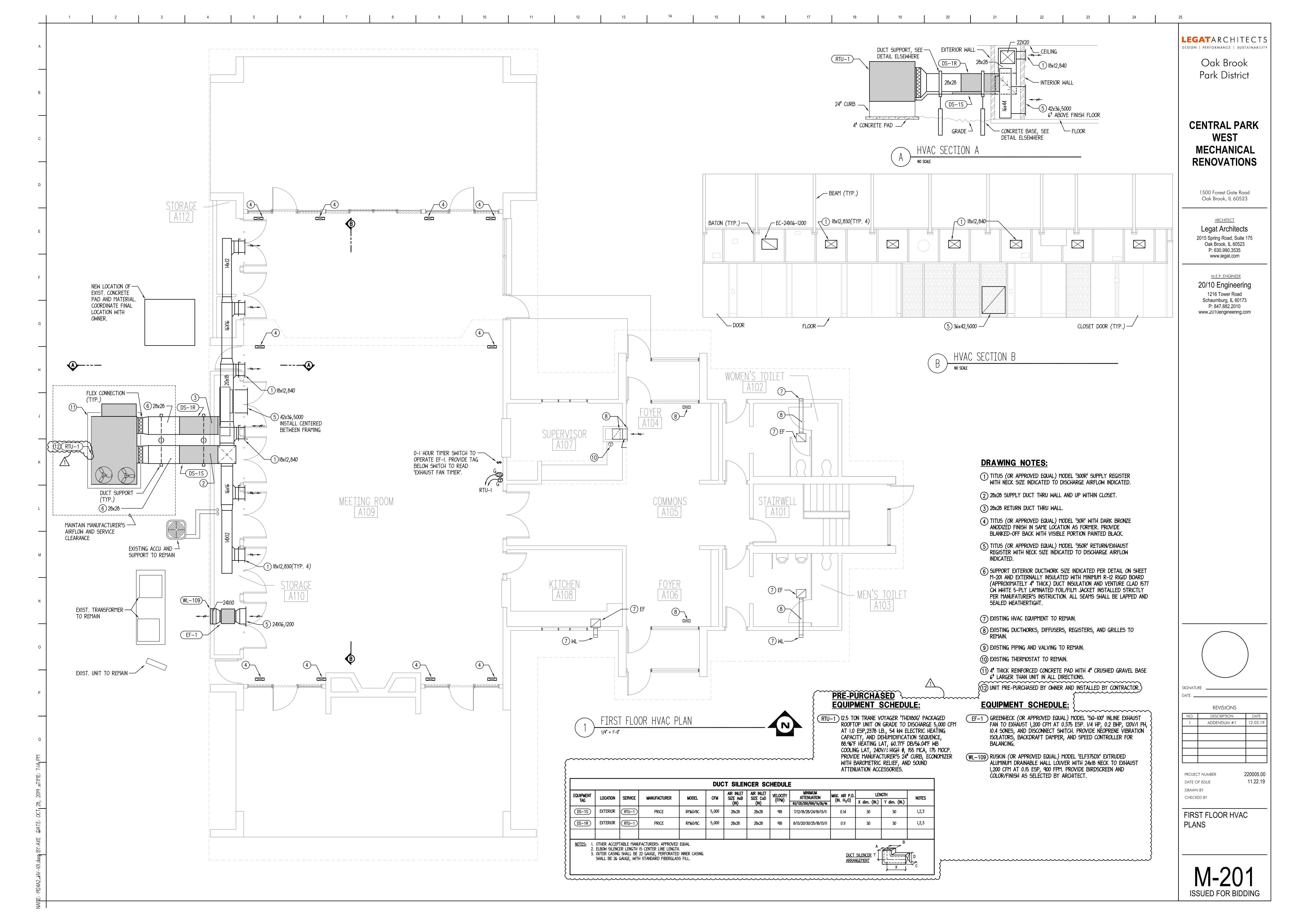
- a. ADD schedule labeled, "Pre-Purchased Equipment Schedule:"
 - 1) ADD equipment tag labeled, "RTU-1" and all associated notes with it.
- 3. At the Drawings Notes
 - a. ADD the following notes:
 - 1) "12. Unit Pre-Purchased by owner and installed by contractor."

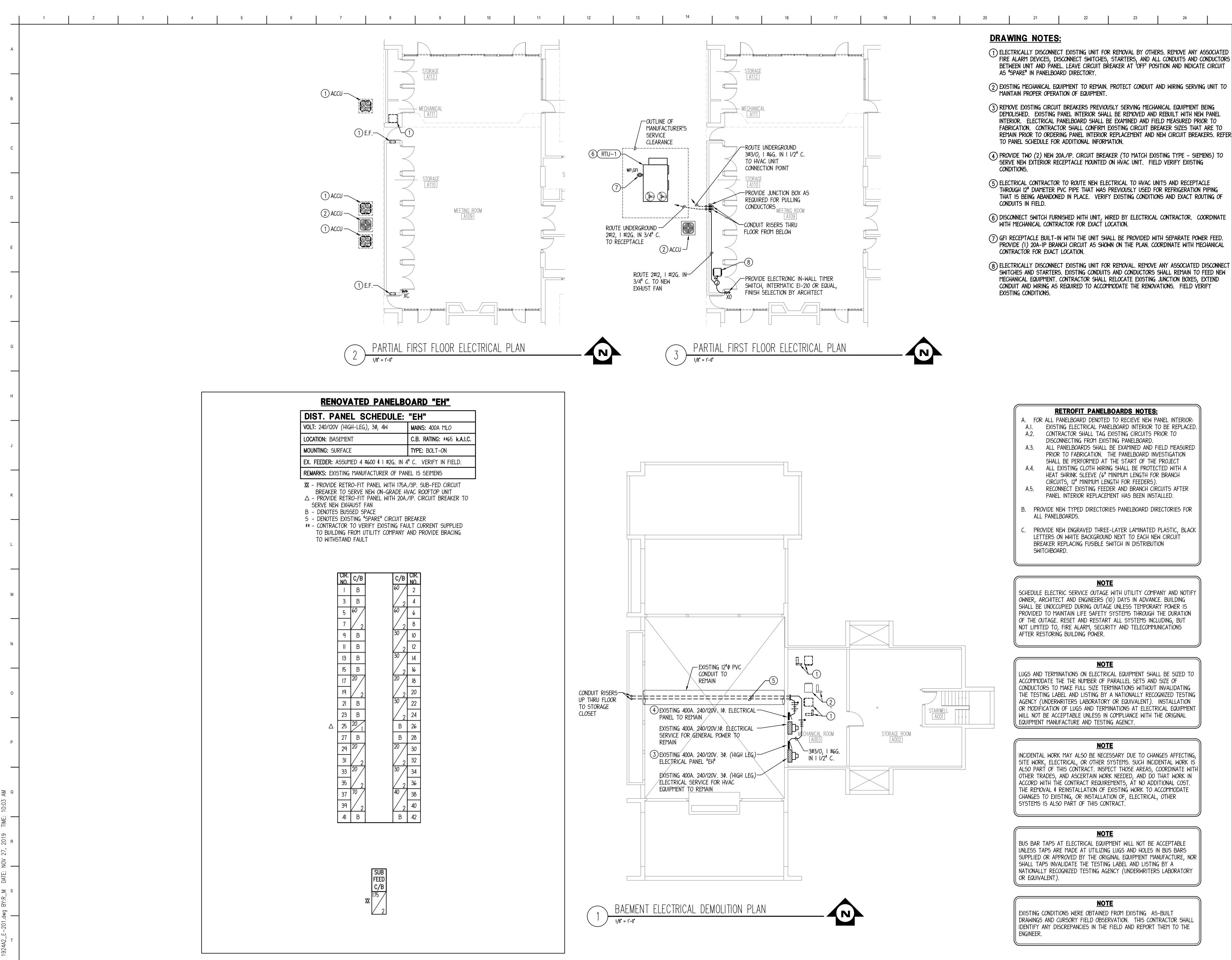
END OF SECTION

This addendum consists of two (2) pages.

This addendum has three (3) attached pages identified below:

- Drawings (3 sheets):
 - o M-201 "First Floor HVAC Plans".
 - o E-201 "Electrical Floor Plans".
 - o E-301 "Electrical Notes, Schedules. And Symbol Legend".





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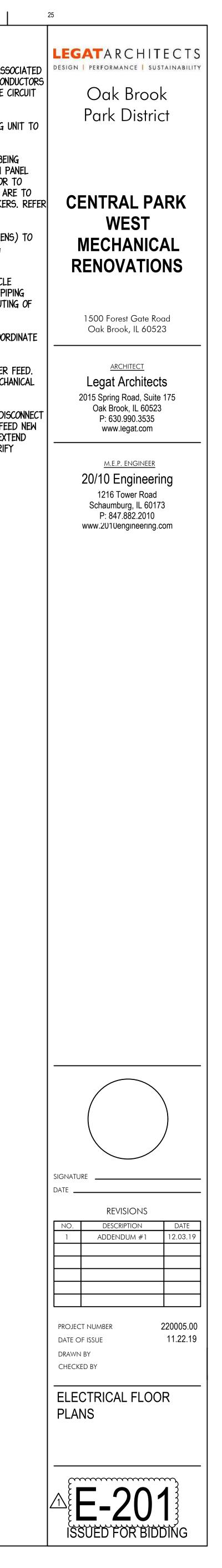
SHALL BE UNOCCUPIED DURING OUTAGE UNLESS TEMPORARY POWER IS PROVIDED TO MAINTAIN LIFE SAFETY SYSTEMS THROUGH THE DURATION

LUGS AND TERMINATIONS ON ELECTRICAL EQUIPMENT SHALL BE SIZED TO CONDUCTORS TO MAKE FULL SIZE TERMINATIONS WITHOUT INVALIDATING THE TESTING LABEL AND LISTING BY A NATIONALLY RECOGNIZED TESTING AGENCY (UNDERWRITERS LABORATORY OR EQUIVALENT). INSTALLATION OR MODIFICATION OF LUGS AND TERMINATIONS AT ELECTRICAL EQUIPMENT

INCIDENTAL WORK MAY ALSO BE NECESSARY DUE TO CHANGES AFFECTING, SITE WORK, ELECTRICAL, OR OTHER SYSTEMS. SUCH INCIDENTAL WORK IS ALSO PART OF THIS CONTRACT. INSPECT THOSE AREAS, COORDINATE WITH OTHER TRADES, AND ASCERTAIN WORK NEEDED, AND DO THAT WORK IN ACCORD WITH THE CONTRACT REQUIREMENTS, AT NO ADDITIONAL COST. THE REMOVAL & REINSTALLATION OF EXISTING WORK TO ACCOMMODATE

UNLESS TAPS ARE MADE AT UTILIZING LUGS AND HOLES IN BUS BARS SUPPLIED OR APPROVED BY THE ORIGINAL EQUIPMENT MANUFACTURE, NOR NATIONALLY RECOGNIZED TESTING AGENCY (UNDERWRITERS LABORATORY

DRAWINGS AND CURSORY FIELD OBSERVATION. THIS CONTRACTOR SHALL IDENTIFY ANY DISCREPANCIES IN THE FIELD AND REPORT THEM TO THE



ELECTRICAL SPECIFICATIONS	(I. SPLICING	CIRCUIT BREAKERS SHALL BE QUICK-MAKE/QUICK-BREAK, SWITCHING DUTY RATED	POWER SYMBOL LIST
THE WORK COVERED BY THIS SPECIFICATION INCLUDES THE COMPLETE ELECTRICAL SYSTEM.	SPLICING WIRES SHALL BE DONE ONLY IN ACCESSIBLE OUTLET, JUNCTION, OR PULL BOXES. SPLICES SHALL BE MADE STRICTLY IN ACCORDANCE WITH THE INSTRUCTIONS OF THE CABLE	FOR 20A BREAKERS, TRIP INDICATING AND AMBIENT COMPENSATED, WITH COMMON TRIP ON MULTI-POLE BREAKERS. CIRCUIT BREAKERS SHALL BE BOLT-ON CONNECTED	(WP,WR) (GFI) MSTALLED I6 [™] A.F.F.
OF FURNISHING ALL LABOR AND MATERIAL FOR THE COMPLETE INSTALLATION OF ELECTRICAL SYSTEMS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:	1ANUFACTURER USING THE METHODS AND MATERIALS RECOMMENDED BY THE MANUFACTURER.	TO THE PANELBOARD, MINIMUM INTERRUPTING CAPACITY SHALL BE 10,000 AIC FOR 120/208 VOLT CIRCUIT BREAKERS. (PLUG-IN BREAKERS ARE NOT APPROVED.)	(EM,TR) - "EM" DENOTES RECE (IG,SPD) SHALL BE RED IN C ⊕ (AFCI) - "GFI" DENOTES RECE - "WP" DENOTES WEAT
A. CONDUIT AND WIRING B. PANELBOARDS C. ELECTRICAL EQUIPMENT AND WIRING	NIRE #8 AWG AND LARGER: BURNDY OR EQUAL SOLDERLESS MECHANICAL LUG AND PAINTED WITH INSULATING VARNISH.	BREAKERS USED FOR EXIT SIGNS, EMERGENCY LIGHTING, AND NIGHT LIGHTING CIRCUITS SHALL BE LOCKED IN THE "ON" POSITION.	- "WR" DENOTES WEAT - "TR" DENOTES TAMF - "IG" DENOTES ISOLA - "SPD" DENOTES REC
D. LUMINAIRES E. TELEPHONE AND DATA RACEWAY SYSTEM F. NURSE CALL SYSTEM	POLARIS OR EQUAL SOLDERLESS MECHANICAL LUG WITH FACTORY APPLIED CHEMICAL AND ABRASION RESISTANT, UV RATED INSULATION. ALL CONNECTIONS SHALL BE PROPERLY TAPED WITH SCOTCH ELECTRICAL TAPE #22, #33, OR	PANELBOARD BOXES SHALL BE CODE GAUGE, GALVANIZED SHEET STEEL, WITH 4 INCH MINIMUM SIDE GUTTERS AND 5 INCH MINIMUM END GUTTERS. PANELBOARD BOXES SHALL NOT EXCEED 78 INCHES ABOVE FINISHED FLOOR.	- "AFCI" DENOTES ARC
	APPROVED EQUAL.	EACH BRANCH CIRCUIT SHALL BE DISTINCTLY NUMBERED. PANELBOARD WIRING SHALL BE TAGGED AT EACH BREAKER WITH PROPER CIRCUIT NUMBERING. WRAP AROUND TAPES (BRADY TAGS) WILL BE ACCEPTABLE.	4E FUSED DISCONNECT S
EQUIPMENT NECESSARY TO PROPERLY INSTALL, ALTER, ADJUST, AND PUT INTO OPERATION THE TO COMPLETE ELECTRICAL SYSTEM.	JUNCTION BOXES, PULL BOXES, AND TERMINAL BOXES SHALL BE INSTALLED WHERE SHOWN ON THE DRAWINGS AND AT OTHER LOCATIONS AS REQUIRED TO FACILITATE THE PULLING OF CABLES. THEY SHALL BE CODE SIZED AND SHALL BE CONSTRUCTED OF CODE GAUGE GALVANIZED SHEET STEEL. EACH BOX SHALL BE PROVIDED WITH A SCREW-ON REMOVABLE	PANELBOARDS SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND AS MAY BE MODIFIED BY THE LOCAL ELECTRICAL CODE, UNDERWRITERS LABORATORIES, AND NEMA, AND SHALL DISPLAY A SERVICE	4⊠ COMBINATION MOTOR SIZE AND NEMA STAF ∕—SWITCH FRAME SIZE.
THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER LAYOUT AND CONSTRUCTION OF THE WORK INCLUDED IN THIS CONTRACT.	COVER. PROVIDE FLANGED COVERS ON FLUSH BOXES. BOXES SHALL BE SMOOTH, SQUARE, AND BET PARALLEL WITH WALLS AND CEILING. MINIMUM SIZE OF JUNCTION BOXES SHALL BE 4" X 4" X 2" SQUARE.	ENTRANCE LABEL WHERE APPLICABLE. EACH PANELBOARD SHALL BE LEFT WITH A TYPEWRITTEN DIRECTORY IDENTIFYING EACH LOAD AFFIXED TO THE INSIDE COVER OF THE PANELBOARD.	-NUMBER OF FUSIBLE
	KIII. CONDUIT AND ELECTRIC METALLIC TUBING CONDUIT AND ELECTRIC METALLIC TUBING SHALL BE IN ACCORDANCE WITH APPLICABLE	PROVIDE A PERMANENT IDENTIFICATION NAMEPLATE ON ALL PANELBOARDS AND DISTRIBUTION PANELS. AT FUSIBLE DISTRIBUTION PANELS PROVIDE A NAMEPLATE AT	-FUSE SIZE. -NEMA ENCLOSURE RA
COMPLETE AND PROPER OPERATION OF ANY SYSTEM SHALL BE PROVIDED BY THE CONTRACTOR EFOR SUCH SYSTEM(S) WHETHER OR NOT THEY ARE SPECIFICALLY CALLED FOR BY THE	ARTICLES OF THE NATIONAL ELECTRICAL CODE AND AS MAY BE MODIFIED BY THE LOCAL ELECTRICAL CODE. NTERMEDIATE METAL CONDUIT (IMC) - ARTICLE 342	EACH PIECE OF EQUIPMENT. CONTRACTOR TO SUBMIT SHOP DRAWINGS ON THIS ITEM.	30/3/30/3R FUSIBLE SWITCH RAT NEMA 00 NEMA STARTER SIZE.
THE COMPLETE INSTALLATION SHALL MEET ALL APPLICABLE CODE REQUIREMENTS.	RIGID METAL CONDUIT (RMC) - ARTICLE 344 FLEXIBLE METAL CONDUIT (FMC) - ARTICLE 248 IQUID TIGHT FLEXIBLE METAL CONDUIT (LFMC) - ARTICLE 350	XX. BALANCING THE SYSTEM OF FEEDERS AND BRANCH CIRCUITS FOR POWER AND LIGHTING SHALL	MOTOR.
ATTENTION IS DIRECTED TO THE NECESSITY OF THE CONTRACTOR TO VISIT THE SITE AND	RIGID POLYVINYL CHLORIDE CONDUIT (PVC) ARTICLE 352 ELECTRICAL METALLIC TUBING (EMT) - ARTICLE 358	BE CONNECTED IN SUCH A MANNER THAT THE CONNECTED LOADS ARE BALANCED ELECTRICALLY ON THE THREE PHASES AS CLOSELY AS POSSIBLE (WITHIN 10 PERCENT). SHOULD THE POWER COMPANY FIND AN UNFAVORABLE OPERATING CONDITION REACTING ON THE SERVICE. THE CONTRACTOR SHALL MAKE SHOULD	 ^{§™} MANUAL MOTOR STAR
OF PROPOSALS SHALL BE CONSIDERED EVIDENCE THAT THE CONTRACTOR HAS VISITED AND	MC, RMC, AND EMT SHALL BE GALVANIZED STEEL. THE CONDUIT SHALL BE INSTALLED PERPENDICULAR AND PARALLEL TO BUILDING LINES.	CONDITION REACTING ON THE SERVICE, THE CONTRACTOR SHALL MAKE SUCH CHANGES REQUIRED TO BALANCE THE LOAD WITHOUT ADDITIONAL COST TO THE OWNER.	
FAILURE TO VISIT, EXAMINE, AND CLARIFY.	ALL CONDUIT INSTALLED OVERHEAD SHALL BE RIGIDLY SUPPORTED FROM THE STRUCTURE ABOVE AND NOT FROM ANY PART OF THE ROOFING SYSTEM OR CEILING SYSTEM. CEILING SYSTEM TO INCLUDE T-BAR GRID, SUPPORT WIRES, ETC.	XXI. TESTING AND ADJUSTMENTS ALL WORK SHALL BE TESTED BY THE CONTRACTOR. ALL MATERIAL, LABOR, AND	CIRCUIT BREAKER PAI
2. LAWS, ORDINANCES, AND REGULATIONS	ALL CONDUIT INSTALLATION SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:	EQUIPMENT SHALL BE FURNISHED BY THE CONTRACTOR TO ACCOMPLISH SUCH TESTS AS REQUIRED BY THE ARCHITECT/ENGINEER.	□ DRY TYPE TRANSFOR □ DRY TYPE TRANSFOR
DTWITHSTANDING ANYTHING IN THESE DRAWINGS OR SPECIFICATIONS TO THE CONTRARY. IN THE ASE OF CONFLICT BETWEEN GOVERNING LEVELS, THE MORE STRINGENT LAWS SHALL APPLY.	 A. SINGLE PHASE 120 VOLT BRANCH CIRCUITS, COMMUNICATIONS WIRING, AND OTHER SIGNALING CIRCUITS FOR INTERIOR LOCATIONS: USE EMT. B. THREE PHASE 208 VOLT FEEDERS AND SINGLE PHASE BRANCH CIRCUITS FOR INTERIOR LOCATIONS: UP TO 2" USE EMT, OVER 2" USE IMC. 	UPON COMPLETION OF THIS WORK, THE PROJECT SHALL BE FREE FROM SHORT CIRCUITS AND GROUNDS AND A THOROUGH TEST SHALL BE MADE. ALL OVERLOAD DEVICES, INCLUDING THOSE FURNISHED UNDER OTHER CONTRACTS SHALL BE ADJUSTED TO SUIT LOAD CONDITIONS BY THE CONTRACTOR. ALL SYSTEMS SHALL BE TESTED AND THEIR OPERATION DEMONSTRATED. LIGHTING EQUIPMENT SHALL BE ADJUSTED TO THE SATISFACTION OF THE OWNER.	DISTRIBUTION PANEL.
NTRACTOR'S WORK.	2. EXTERIOR CONDUITS ABOVE GRADE SHALL BE IMC OR RMC. D. EXTERIOR CONDUITS BELOW GRADE SHALL RMC OR PVC. E. PROVIDE METALLIC TRACER WIRE OR TAPE FOR ALL BELOW GRADE NON-METALLIC CONDUITS.		AWG CONDUCTORS OR
FECT SHALL BE FURNISHED TO THE ARCHITECT UPON REQUEST.	(IV. OUTLET BOXES GENERALLY, OUTLET BOXES OF PROPER TYPE AND NOT LESS THAN 4 INCHES SQUARE OR OCTAGONAL AS REQUIRED BY BUILDING CONDITIONS SHALL BE PLACED AT ALL LIGHT,	XXII. GUARANTEE	QUANTITY OF #12 MINI
IE CONTRACTOR SHALL SECURE AND PAY FOR ALL LICENSES REQUIRED BY THE GOVERNING RODIES TO OPERATE AS AN ELECTRICAL CONTRACTOR FOR THIS PROJECT.	RECEPTACLE, AND SWITCH OUTLETS. OUTLET BOXES SHALL BE FIRMLY SECURED IN PLACE AND SHALL BE SET TRUE, SQUARE, AND FLUSH WITH THE FINISHED SURFACES. THE CONTRACTOR SHALL MOVE ANY OUTLET BOX UP TO 5 FEET IN ANY DIRECTION WITHOUT COST IF RELOCATED	THE CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE IN WRITING ALL MATERIAL, EQUIPMENT, AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY OWNER. THE CONTRACTOR SHALL PROVIDE FREE SERVICE FOR ALL EQUIPMENT INVOLVED IN THEIR CONTRACT DURING THIS GUARANTEE PERIOD.	DENOTES CONDUIT HO INDICATED.
L WORK TO BE PERFORMED SHALL BE DONE BY QUALIFIED MECHANICS IN THE EMPLOY OF THE	PRIOR TO INSTALLATION. MINIMUM DEPTH SHALL BE 2 INCHES.	THE GUARANTEE SHALL INCLUDE RESTORATION TO ITS ORIGINAL CONDITION OF ALL ADJACENT WORK THAT MUST BE DISTURBED IN FULFILLING THIS GUARANTEE.	SHORT TICK MARK DI
O WHICH THEY ARE USED.	ACCEPTABLE MANUFACTURERS: PASS & SEYMOUR, LEVITON, COOPER, OR HUBBELL	ALL SUCH REPAIRS AND/OR REPLACEMENTS SHALL BE MADE WITHOUT DELAY AND AT THE CONVENIENCE OF THE OWNER.	DENOTES INSULATED
. MATERIALS AND EQUIPMENT S	WITCHES SHALL BE OF THE HEAVY DUTY GRADE, 120/277 VOLT, FLUSH TOGGLE TYPE RATED AT 20 AMPERES AND UL APPROVED. ALL SWITCHES SHALL HAVE POLES AS REQUIRED AND SHALL BE SIMILAR TO PASS & SEYMOUR #PS20ACI. DEVICE COLORS TO BE SELECTED BY	XXIII. SUBSTITUTIONS APPROVALS OF SUBSTITUTIONS FOR "APPROVED EQUAL" MUST BE MADE IN WRITING AND SUBSTITUTIONS MUST BE APPROVED BEFORE INSTALLATION. INSTALLATION	
STANDARD SPECIFIED HEREIN.	ARCHITECT. RECEPTACLES SHALL BE POLARIZED, GROUNDED, DUPLEX, BACK AND SIDE WIRED, RATED 20 AMPERES, AND UL APPROVED. ALL GENERAL PURPOSE RECEPTACLES SHALL BE SPECIFICATION GRADE SIMILAR TO PASS & SEYMOUR #PS5362. ALL TAMPER RESISTANT RECEPTACLES SHALL BE SIMILAR TO PASS & SEYMOUR #TR5362. ALL GROUND FAULT CIRCUIT	WITHOUT PRIOR APPROVAL MAY RESULT IN THE CONTRACTOR REMOVING SUBSTITUTION AND REPLACING IT WITH SPECIFIED ITEM AT THEIR EXPENSE.	ALARM/INTERCOM) U.
GULARLY PRODUCED AND RECOMMENDED FOR SERVICE IN ACCORDANCE WITH ENGINEERING	NTERRUPTER TYPE RECEPTACLES SHALL BE SIMILAR TO PASS & SEYMOUR #2097TRW. ALL DUTDOOR RECEPTACLES SHALL BE WEATHER RESISTANT AND GROUND FAULT CIRCUIT NTERRUPTER TYPE SIMILAR TO PASS & SEYMOUR #2095TRWRW.	APPROVAL MAY BE GIVEN BY ARCHITECT OR ENGINEER.	
UIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	CONTRACTOR TO SUBMIT SHOP DRAWINGS ON THIS ITEM.	GENERAL NOTES - ELECTRICAL I. CONTRACTOR SHALL FURNISH MATERIALS AND USE INSTALLATION METHODS SUITABLE FOR THE ENVIRONMENTAL CONDITIONS OF THE AREA IN WHICH	SYMBOL DES
I. COORDINATION WITH OTHER TRADES	WITCH AND RECEPTACLE PLATES IN FINISHED AREAS SHALL BE IMPACT RESISTANT NYLON WITH COLOR AS SELECTED BY ARCHITECT. ALL PLATES IN UNFINISHED AREAS AREA SHALL BE FORMED STEEL (GARVIN COVERS).	 EQUIPMENT, FIXTURES, AND DEVICES ARE INSTALLED. ALL CONNECTIONS TO EQUIPMENT WHICH ARE SUBJECT TO VIBRATION OR MOVEMENT SHALL BE MADE WITH FLEXIBLE CONDUIT. THE LOCATIONS SHOWN FOR ALL LUMINAIRES AND CEILING MOUNTED 	R EXIS X EXIS
HER TRADES. THE CONTRACTOR IS COMPLETELY RESPONSIBLE IF FAILURE ON THEIR PART TO ORDINATE EFFORTS RESULTS IN EXTRA WORK HAVING TO BE DONE TO COMPLETE A TASK. SUCH, THEIR FAILURE SHALL NOT BE THE BASIS FOR ANY EXTRA CHARGES AGAINST THE	VII. DISCONNECTS ACCEPTABLE MANUFACTURERS:	ELECTRICAL EQUIPMENT ARE DIAGRAMMATIC. EXACT LOCATION SHALL BE DETERMINED FROM THE REFLECTED CEILING PLANS AND/OR ON THE JOB SITE BY THE ARCHITECT/ENGINEER REPRESENTATIVES. IT SHALL BE THE	XC EXIS
	EATON, SQUARE D, OR SIEMENS THE CONTRACTOR SHALL FURNISH AND INSTALL ALL FUSIBLE OR NON-FUSIBLE DISCONNECT	CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CODE REQUIRED SPACINGS FOR ITEMS SUCH AS FIRE ALARM DEVICES. 4. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN THE FIRE RATED INTEGRITY	XO NEM XRR EXIS REL
OVIDE ALL ELECTRICAL SYSTEM AND EQUIPMENT GROUNDS AS REQUIRED BY THE NATIONAL ECTRICAL CODE AND AS MAY BE MODIFIED BY THE LOCAL ELECTRICAL CODE, THE NATIONAL P	SWITCHES AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. PROVIDE HEAVY DUTY, KNIFE SWITCH TYPE DISCONNECT SWITCHES FOR ALL ELECTRICALLY OPERATED EQUIPMENT NEMA RATED FOR SIZE AND LOCATION. DISCONNECT SWITCHES SHALL BE	OF FLOORS CEILINGS AND/OR WALL PARTITIONS. ALL PENETRATIONS THROUGH FIRE RATED BUILDING ELEMENTS SHALL BE EFFECTIVELY SEALED USING APPROVED MATERIALS AND METHODS. ALL LIGHTING FIXTURES MOUNTED IN	XR EXIS
WIRING - MANNER OF INSTALLATION P	PLENUM RATED OR WEATHERPROOF WHERE REQUIRED. HANDLE SHALL BE LOCKABLE IN THE 'OFF' POSITION. PROVIDE A PLASTIC LAMINATE INSCRIPTION PLATE WITH RIVETS FOR IDENTIFICATION. PULLOUT SWITCHES ARE NOT APPROVED.)	FIRE RATED CEILINGS SHALL BE INSTALLED TO MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILING USING APPROVED MATERIALS AND METHODS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT CONSTRUCTION TYPES AND RATINGS.	XRT RET XA EXIS
LOCATIONS EXCEPT WHERE PROHIBITED BY CODE, EXPOSED TO WEATHER, EXPOSED TO CHANICAL INJURY, OR WHERE BURIED IN OR BELOW SLABS ON GRADE; IN THOSE LOCATIONS	FOR FUSIBLE DISCONNECT SWITCHES, PROVIDE FUSE CLIPS DESIGNED TO ACCOMMODATE NEMA FUI, CLASS R FUSES.		XM EXI
NTINUOUS. CONDUIT FITTINGS SHALL BE SUITABLE FOR THEIR PURPOSE AND SHALL BE	CONTRACTOR TO SUBMIT SHOP DRAWINGS ON THIS ITEM.		XW EXI NOTE: NOT ALL
WIRE AND CABLE	THE CONTRACTOR SHALL FIRE STOP ALL PENETRATIONS THROUGH FIRE RATED WALLS, PARTITIONS, ROOFS, AND/OR FLOORS SO THAT THE INTEGRITY OF THE FIRE RATING IS NOT COMPROMISED BY THE CONTRACTOR'S INSTALLATION OF ANY BOX, CABLE TRAY, RACEWAY,		
COPPER, THERMOPLASTIC INSULATED, TYPE THWN OR THHN, AND 600V RATED. TYPE THWAY BE USED IN LIEU OF TYPE THWN OR THHN IN SIZES OF #12 AWG AND #10 AWG IN DRYACATIONS AT THE CONTRACTOR'S OPTION. WIRE BENEATH OR IN THE GROUND FLOOR ANDC	AND/OR CONDUIT. FIRE STOPPING METHODS AND MATERIALS SHALL CONFORM TO LOCAL CODE AUTHORITY REQUIREMENTS. AT A MINIMUM, THE CONTRACTOR SHALL GROUT AROUND ALL BOXES, CABLE TRAYS, RACEWAYS, CONDUITS, ETC., IN PENETRATION RATED PARTITION/FLOOR CONSTRUCTION WITH NON-SHRINK GROUT SO THAT ALL OPEN SPACES ARE FILLED IN SOLIDLY.		
WIRE SMALLER THAN #12 AWG SHALL BE USED ON THIS PROJECT UNLESS INDICATED.	THE CONTRACTOR SHALL PROVIDE SUITABLY RATED LUMINAIRES OR UTILIZE APPROVED 1ATERIALS AND METHODS TO MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILING. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR THE LOCATION OF ALL FIRE RATED CEILINGS, PARTITIONS, AND WALLS.		
	KIX. PANELBOARDS ACCEPTABLE MANUFACTURERS: POWER DISTRIBUTION EQUIPMENT CO., JOHN GANDY, 847-455-2500. ILLINOIS SWITCHBOARD, ED ZASTAWNY, 630-543-0910. SIEMENS		
ROUND GREEN GREEN GREEN WITH YELLOW STRIPE T	THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PANELBOARDS AND CABINETS AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN.		
A. 120/208V: 0-75' - #12AWG MINIMUM 75'-150' - #10AWG MINIMUM 5	PANELBOARDS SHALL BE DEAD FRONT, WITH CAPACITY AND VOLTAGE CHARACTERISTICS AS SHOWN ON THE SCHEDULES. MAIN AND NEUTRAL BUS BARS SHALL BE COPPER AND BASED ON A CURRENT DENSITY OF NOT MORE THAN 1000 AMPERES PER SQUARE INCH CROSS SECTION AND SHALL BE FULL CAPACITY FOR THE ENTIRE LENGTH OF THE PANEL. BUSSING SHALL BE SEQUENCED SO AS TO PERMIT THE INSTALLATION OF FUSIBLE SWITCHES OR 1, 2, AND 3 POLE		

ALL WIRING SHALL BE ENCLOSED WITHIN A COMPLETE AND CONTINUOUS METAL RACEWAY.

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		-
INDING TYPE, 125V. SPECIFICATION-GRADE, DUPLEX RECEPTACLE NEMA 5-20R .N.O.	 DEMOLITION PLAN GENERAL NOTES 1. ALL INDICATED ELECTRICAL EQUIPMENT, FIXTURES, DEVICES, AND RELATED CONDUIT AND WIRING TO BE REMOVED UNLESS NOTED OTHERWISE. 	
TACLE WIRED TO CRITICAL BRANCH OF THE EMERGENCY SYSTEM. RECEPTACLE LOR. PTACLE EQUIPPED WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER. HER RESISTANT RECEPTACLE WITH WHILE-IN-USE WEATHERPROOF COVER.	2. ALL DEMOLITION OF THE ELECTRICAL SYSTEM AS NOTED ON THE DEMOLITION DRAWINGS SHALL BE COORDINATED WITH THE RENOVATION REQUIREMENTS TO DETERMINE THIS CONTRACTOR'S WORK.	
IER RESISTANT RECEPTACLE. ER RESISTANT TYPE RECEPTACLE. ED GROUND TYPE RECEPTACLE. IPTACLE WITH INTEGRAL SURGE PROTECTIVE DEVICE. FAULT CIRCUIT INTERRUPTER.	3. IT IS THE INTENT OF THE ELECTRICAL DEMOLITION DRAWING(S) TO INDICATE AREAS IN WHICH ELECTRICAL EQUIPMENT, CONDUIT, LUMINAIRES, DEVICES, ETC. NEED TO BE REMOVED, RELOCATED, OR MODIFIED BY THIS CONTRACTOR TO ALLOW FOR THE RENOVATION PHASE OF CONSTRUCTION. THE ELECTRICAL DEMOLITION PLAN IS FOR REFERENCE PURPOSES ONLY AND IT IS NOT INTENDED TO BE THE SOLE SOURCE OF EXISTING CONDITIONS.	
SCONNECT SWITCH, AMPERE RATING AND NUMBER OF POLES AS NOTED.	4. CONTRACTOR SHALL VISIT THE BUILDING, BEFORE SUBMITTING THEIR BID, TO VERIFY THE EXISTING CONDITIONS WHICH WILL AFFECT THEIR WORK.	
TARTER WITH FUSED DISCONNECT, AMPERE RATING, NUMBER OF POLES, FUSE ER SIZE AS INDICATED. DLES.	5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE ELECTRICAL DEMOLITION REQUIRED TO ACCOMMODATE THE RENOVATION. REMOVE AS REQUIRED ALL LUMINAIRES, CONNECTIONS TO MECHANICAL EQUIPMENT, DEVICES, ETC PULL OUT ALL UNUSED CONDUCTORS AND CABLES, AND REMOVE ALL ABANDONED CONDUIT. ELECTRICALLY DISCONNECT AIR HANDLING UNITS, PUMPS, BOILERS, AND OTHER SUCH EQUIPMENT FOR REMOVAL BY OTHERS. BACKFEED AS REQUIRED ALL DOWNSTREAM DEVICES WHICH REMAIN. (THE CONTRACTOR SHALL	
	COORDINATE WITH THE OWNER WHICH ITEMS INDICATED TO BE REMOVED & DISCONNECTED SHALL BE SALVAGED AND PRESENTED TO THE OWNER PRIOR TO ANY DISPOSAL OF THESE ITEMS.)	
NG. (NEMA I STANDARD, 3R OUTDOORS AND WET LOCATIONS U.N.O.) G TAG.	6. ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. WHERE WORK CALLED FOR ON THE DRAWINGS OR IN THE SPECIFICATIONS INVOLVES THE REMOVAL OF FLUORESCENT LAMPS CONTAINING MERCURY OR CLOTH INSULATED CONDUCTORS, THEY SHALL BE PROPERLY HANDLED AND REMOVED FROM SITE BY APPROVED METHODS PER EPA REGULATIONS.	
TER, THERMAL OVERLOAD TOGGLE SWITCH. ON BOX.	7. ALL EXISTING RECEPTACLES/DATA OUTLETS/DEVICES/EQUIPMENT THAT ARE NOT PART OF DEMOLITION SHALL REMAIN AS IS UNLESS NOTED OTHERWISE. CONTRACTOR SHALL CHECK AND VERIFY FOR CONTINUING OPERATION OF THESE DEVICES PRIOR TO SUBSTANTIAL COMPLETION. IF ANY EXISTING CIRCUITS TO REMAIN ARE INTERRUPTED BY DEMOLITION OR NEW CONSTRUCTION, CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT/REMOVAL/REROUTING/MODIFICATION OF CONDUITS AND WIRES INCLUDING EXTENSION, AS REQUIRED TO MAINTAIN FUNCTIONALITY OF DOWNSTREAM RECEPTACLES/DATA OUTLETS/DEVICES/EQUIPMENT.	
EXIBLE CONDUIT FOR FINAL CONNECTION TO EQUIPMENT. ELBOARD.	8. THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT PHASING AND MAINTAIN EXISTING	
	SYSTEMS ACTIVE IN AREAS WHICH REMAIN OCCUPIED.	
ER, WALL MOUNTED OR CEILING HUNG. ER WITH 4" CONCRETE HOUSEKEEPING PAD.	9. EXISTING CEILING MOUNTED SPEAKERS, PROGRAM BELLS, FIRE ALARM DEVICES, AND SIMILAR ELECTRICAL EQUIPMENT AND DEVICES TO REMAIN SHALL BE EXTENDED AND REINSTALLED AS REQUIRED IN NEW CEILINGS. FIELD VERIFY EXACT QUANTITIES AND REQUIREMENTS.	
EALED IN WALLS AND CEILING. HASH MARKS DENOTE QUANTITY OF #12 MINIMUM AS NOTED.	10. SUPPORT ALL CABLING DRAPED OR LYING LOOSE ABOVE EXISTING CEILINGS WHICH ARE SCHEDULED TO BE REMOVED. TIE WRAP CABLING TO JOISTS OR OTHER STRUCTURAL MEMBERS AS REQUIRED. UPON THE COMPLETION OF THE PROJECT, NO WIRING SHALL BE LYING ON ACCESSIBLE CEILINGS.	
ISED. INSTALL PARALLEL TO WALLS AND CEILINGS. HASH MARKS DENOTE 1UM AWG CONDUCTORS OR AS NOTED.	POWER PLAN GENERAL NOTES	
W GRADE. HASH MARK DENOTES QUANTITY OF #12 MINIMUM AWG CONDUCTORS OR	1. THE MINIMUM WIRE SIZE SHALL BE #12 AWG EXCEPT FOR SHARED NEUTRAL CONDUCTORS WHICH THE MINIMUM SIZE SHALL BE #10 AWG. THE MINIMUM CONDUIT SIZE FOR HOMERUNS AND BRANCH FEEDS TO POWER OUTLETS SHALL BE 3/4". 1/2" CONDUIT IS ACCEPTABLE FOR	

NOTED OTHERWISE.

1ERUN, 3/4" MINIMUM, PANEL DESTINATION AND CIRCUIT NUMBER(S) AS

OTES LINE (HOT) OR SWITCH LEG CONDUCTOR, #12 MINIMUM AWG.

TES NEUTRAL CONDUCTOR, #10 AWG MINIMUM.

ROUND WIRE, #12 AWG MINIMUM.

5 FOR ROUTING OF LOW VOLTAGE CABLING WITH INSULATED BUSHING. EACH ROVIDE A MINIMUM OF (1) I 1/4" CONDUIT (DATA), (1) I" CONDUIT (FIRE

DEMOLITION SYMBOLS
CRIPTION
TING ELECTRICAL EQUIPMENT OR OUTLET TO BE REMOVED.
TING ELECTRICAL EQUIPMENT OR OUTLET TO REMAIN.
TING ELECTRICAL EQUIPMENT OR OUTLET TO BE REMOVED AND TION BOX CAPPED OR REUSED AS REQUIRED.
ELECTRICAL EQUIPMENT INSTALLED OVER EXISTING OUTLET.
TING ELECTRICAL EQUIPMENT OR OUTLET TO BE REMOVED, ICATED AND JUNCTION BOX REMOVED OR CAPPED AS REQUIRED.
TING ELECTRICAL EQUIPMENT OR OUTLET RELOCATED (NEW LOCATION).
TING ELECTRICAL EQUIPMENT OR OUTLET TO BE TEMPORARILY OVED AND REINSTALLED IN SAME LOCATION.
TING ELECTRICAL EQUIPMENT OR OUTLET TO BE ABANDONED.
TING ELECTRICAL EQUIPMENT OR OUTLET TO BE MODIFIED.
TING ELECTRICAL EQUIPMENT TO BE REWIRED.

YMBOLS MAY BE USED.

2. THE CONTRACTOR SHALL PROVIDE ALL PENETRATIONS, SLEEVES, AND SEALANT AS REQUIRED THROUGH PARTITIONS TO ACCOMMODATE THE FIRE ALARM, PAGING, CLOCK, VOICE, AND DATA CABLING. ANY PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROPERLY SEALED AND TREATED TO MAINTAIN THE FIRE STOPPING RATING OF THE WALLS, FLOORS, AND CEILINGS.

BRANCH WIRING TO END OF THE LINE RECEPTACLES ONLY. ALL POWER BRANCH CIRCUITS SHALL TERMINATE AT 20A/I-POLE CIRCUIT BREAKERS IN PANELBOARD INDICATED UNLESS

- 3. BACKBOXES ARE TO BE MOUNTED OFFSET, NOT BACK TO BACK.
- 4. CIRCUIT NUMBER(S), WHERE SHOWN, ARE TO INDICATE QUANTITY OF CIRCUITS REQUIRED. VERIFY EXACT CIRCUIT NUMBER TO BE UTILIZED IN FIELD. CONTRACTOR SHALL PROVIDE ACTUAL CIRCUITING AS PART OF "AS BUILT" DRAWINGS.
- 5. UNLESS INDICATED OTHERWISE, ALL MATERIALS REQUIRED TO PROVIDE BRANCH CIRCUITS AND FEEDERS ARE TO BE NEW.
- 6. DURING THE COURSE OF INVESTIGATION AND DEMOLITION, IF IT IS DETERMINED THAT IT MAY BE FEASIBLE TO UTILIZE EXISTING MATERIALS FOR BRANCH CIRCUITS AND FEEDERS, CONTRACTOR SHALL NOTIFY ENGINEER FOR APPROVAL PRIOR TO PERFORMING ANY WORK.
- 7. REFER TO MECHANICAL SHEETS FOR ADDITIONAL EQUIPMENT INFORMATION.
- 8. DRAWINGS DO NOT REPRESENT ALL EXISTING FIRE ALARM DEVICES. INITIATING AND NOTIFICATION DEVICES NOT SHOWN ON THE DRAWINGS ARE EXISTING TO REMAIN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN OPERATION OF THE EXISTING DEVICES NOT SHOWN.
- 9. EXISTING FIRE ALARM SYSTEM SHALL BE OPERATIONAL AT ALL TIMES. THE OCCUPIED AREA OF THE BUILDING SHALL NOT BE LEFT UNPROTECTED AT ANY TIME. IF AN INTERRUPTION OF FIRE ALARM SYSTEM IS REQUIRED TO FACILITATE DEVICE INSTALLATION, PROVIDE 48 HOURS OF ADVANCE NOTICE TO THE OWNER AND THE LOCAL FIRE DEPARTMENT. CONTRACTOR SHALL HIRE AN AUTHORIZED PERSONNEL TO WATCH/GUARD ANY UNPROTECTED AREAS OF THE BUILDING WHERE NECESSARY.
- 10. UNLESS INDICATED ON ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL CORING, CUTTING, PATCHING, REPAIRING, REFINISHING, AND REMOVAL/REPLACEMENT OF NEW OR EXISTING BUILDING CONSTRUCTION REQUIRED TO ACCOMMODATE THE INSTALLATION OR REMOVAL OF THEIR WORK. REMOVE, STORE, AND REINSTALL CEILING TILES AS REQUIRED TO INSTALL WORK ABOVE EXISTING REMOVABLE CEILINGS WHICH REMAIN; REPLACE TILES BROKEN OR DAMAGED DURING CONSTRUCTION. ALL PATCHING, REPAIRING, AND REFINISHING WORK TO OTHER FINISHES AND STRUCTURAL ELEMENTS SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE ADJACENT CONSTRUCTION AS CLOSELY AS POSSIBLE WHILE MAINTAINING EXISTING FIRE RATINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXISTING FIRE RATINGS OF CEILINGS AND PARTITIONS SYSTEMS. CARE SHALL BE TAKEN SO AS NOT TO DAMAGE ANY EXISTING BUILDING CONSTRUCTION OR ITEMS THAT ARE TO REMAIN. ANY EXISTING FINISHES THAT ARE DAMAGED DURING THE INSTALLATION OF NEW WORK OR REMOVAL OF EXISTING WORK SHALL BE REPAIRED, REPLACED, AND PAID FOR BY THE INSTALLING CONTRACTOR TO THE SATISFACTION OF THE ARCHITECT AND OWNER, REFER TO ARCHITECTURAL DRAWINGS FOR EXISTING BUILDING CONSTRUCTION THAT IS TO REMAIN AND, THEREFORE, SUBJECT TO PATCHING, REPAIRING, REFINISHING, AND REMOVAL/REPLACEMENT.
- II. REMOVE AND REINSTALL CEILING MOUNTED DEVICES AS REQUIRED TO ALLOW INSTALLATION OF FEEDERS, BRANCH CIRCUITS, MECHANICAL PIPING, AND DUCT WORK. DEVICES INCLUDE BUT ARE NOT LIMITED TO: LUMINAIRES, SPEAKERS, FIRE ALARM, AND PAGING DEVICES.
- 12. PROVIDE PULL BOX(ES) BETWEEN PULL POINTS AS REQUIRED TO COMPLY WITH NEC 344.26 SUCH THAT THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREE TOTAL) BETWEEN PULL POINTS.
- 13. SPECIAL ATTENTION SHALL BE PAID TO ALL CONDUIT ROUTING IN OPEN CEILING SPACE FOR AESTHETIC PURPOSES. ALL EXPOSED CONDUITS SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES AND TIGHT TO CEILING/STRUCTURAL CORNERS. WHERE THIS IS NOT FEASIBLE, SUBMIT CONDUIT ROUTING PLAN TO ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- 15. IN EXISTING WORK WHEN UTILIZING EXISTING SPACES OR SPARES, CONTRACTOR SHALL PROVIDE DEDICATED NEUTRAL FOR EACH BRANCH CIRCUIT UNLESS HANDLE TIES ARE UTILIZED TO MEET THE REQUIREMENTS OF ARTICLE 210.4(B).

BIDDING NOTE

SEE DRAWINGS ME-100 FOR GENERAL NOTES AND ADDITIONAL DETAILS APPLICABLE TO THIS TRADE'S WORK.

