# 12C FIRST FLOOR CFR BUILD OUT

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### PROJECT INFORMATION

WSU PROJECT NUMBER	212-355739	FIRE PROTECTION	SPRINKLERED
	WAYNE STATE UNIVERSTIY	NUMBER OF STORIES	1 (FIRST FLOOR)
OWNER:		PROJECT AREA:	2,463 SF
ADDRESS:	6000 SECOND AVENUE DETROIT, MI 48202	BUILDING AREA	41,835 SF
PARCEL ID NUMBER:	02002433	ALTERATION TYPE	ALT 2
REGULATING BODY:	WAYNE STATE UNIVERSITY	ALT 2 WORK AREA	2,463 SF (5.9% BUILDING AREA)
		COMPLIANCE METHOD	WORK AREA COMPLIANCE METHOD -
ZONING:	SD2		MRCEB 301.1.2

#### CODE COMPLIANCE

THE PROPOSED CONSTRUCTION IS IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL ORDINANCES

THE CONSTRUCTION SHOWN ON THIS DOCUMENT DOES NOT INFRINGE ON THE EXISTING LIFE SAFETY FOR THIS BUILDING. PERFORM ALL WORK IN ACCORDANCE WITH BUILDING CODES, LAWS AND ORDINANCES HAVING JURISDICTION ON THE PROJECT. ORDINANCES HAVING JURISDICTION ON THE PROJECT INCLUDE BUT ARE NOT LIMITED TO:

2015 MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS 2015 MICHIGAN BUILDING CODE 2015 MICHIGAN MECHANICAL CODE 2018 MICHIGAN PLUMBING CODE 2017 MICHIGAN ELECTRICAL CODE 2015 MICHIGAN ENERGY CODE 2009 ICC/ANSI + MICHIGAN BARRIER FREE CODE 2015 NFPA 101 LIFE SAFETY CODE 2013 ANSI/ASHRAE/IES 90.1 2009 ICC A117.1

#### SCOPE OF WORK

RENOVATION OF EXISTING OFFICE SUITE INTO NEW OFFICE SUITE FOR THE WSU CORPORATE AND FOUNDATION RELATIONS AND OFFICE OF BUSINESS INNOVATION TEAMS. SCOPE OF WORK INCLUDES DIVIDING AN EXISITING KITCHETTE INTO TWO (2) PHONE BOOTHS AND ONE (1) SMALLER KITCHENETTE. CHANGES TO INTERIOR FINISHES INCLUDES ADDING WOOD VENEER WALL PANELING, NEW PAINT, AND NEW CARPET TILE. NO CHANGES TO EXISTING PLUMBING WILL BE REQUIRED. CHANGES TO EXISTING HVAC, ELECTRICAL AND LIGHTING, FIRE ALARM AND FIRE SUPPRESSION IS INCLUDED IN THIS SCOPE.

**BUILDING INFORMATION** 

	of miniceliteb
UMBER OF STORIES	1 (FIRST FLOOR)
ROJECT AREA:	2,463 SF
UILDING AREA	41,835 SF
LTERATION TYPE	ALT 2
LT 2 WORK AREA	2,463 SF (5.9% BUILDING AREA)
OMPLIANCE METHOD	WORK AREA COMPLIANCE METHOD - MRCEB 301.1.2

#### <u>OCCUPANCY</u>

CURRENT USE GROUP
PROPOSED USE GROUP
OCCUPANT LOAD

- B BUSINESS
- B · BUSINESS

28 OCCUPANTS (AREAS FILED UNDER PERMIT) SEE SHEET G-000





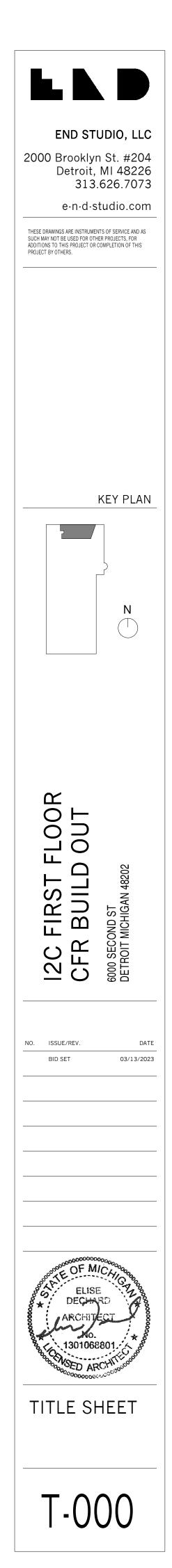


#### <u>SHEET LIST</u>

#	SHEET NAME	BID SET (3/13/23)
	TITLE SHEET	•
G-000	CODE REVIEW	•
G-001	GENERAL NOTES	•
G-002	ACCESSIBILITY AND STANDARDS	•
D-100	DEMO PLANS	•
A-001	SCHEDULES + WALL SECTION	•
A-101	FIRST FLOOR PLAN + FURNITURE PLAN	•
A-201	FIRST FLOOR RCP + POWER PLAN	•
A-600	INTERIOR ELEVATIONS	•
A-601	INTERIOR ELEVATIONS	•
M-101	VENTILATION SCHEDULE + MECH DETAIL	•
E-001	ELECTRICAL SYMBOLS, & NOTES	•
E-002	ELECTRICAL SPECIFICATION	•
E-003	ELECTRICAL DETAILS	•
E-101	FIRST FLOOR PLAN + ELECT DEMOLITION	•
E-201	FIRST FLOOR PLAN + ELECTRICAL	•

ALTERNATE PRICING TO BE PROVIDED: 1. DEDUCT ALTERNATE TO REMOVE WOOD VENEER PANELING ON OPEN OFFICE WALLS SHOWN IN ELEVATIONS 3/A-600, 4/A-600, AND 1/A-601. PAINT WALLS WITH PNT-1 INSTEAD. 2. DEDUCT ALTERNATE TO REMOVE WOOD VENEER PANELING ON ENTRY WALSL SHOWN IN ELEVATIONS 1/A-600, 2/A-600. PAINT WALLS WITH PNT-1 INSTEAD. 3. DEDUCT ALTERNATE TO REMOVE BULLETIN BOARD SHOWN IN ELEVATION 1/A-601 FROM SCOPE. 4. DEDUCT ALTERNATE TO REMOVE GRID OF (9) PENDANT LIGHTS IN ROOM 100 SHOWN ON A-201 FROM SCOPE. PROVIDE LABOR COST TO INSTALL (2) NEW FIXTURES IN EXISTING LIGHTING J-BOXES SHOWN ON D-100.





OCCUPANCY LOAD

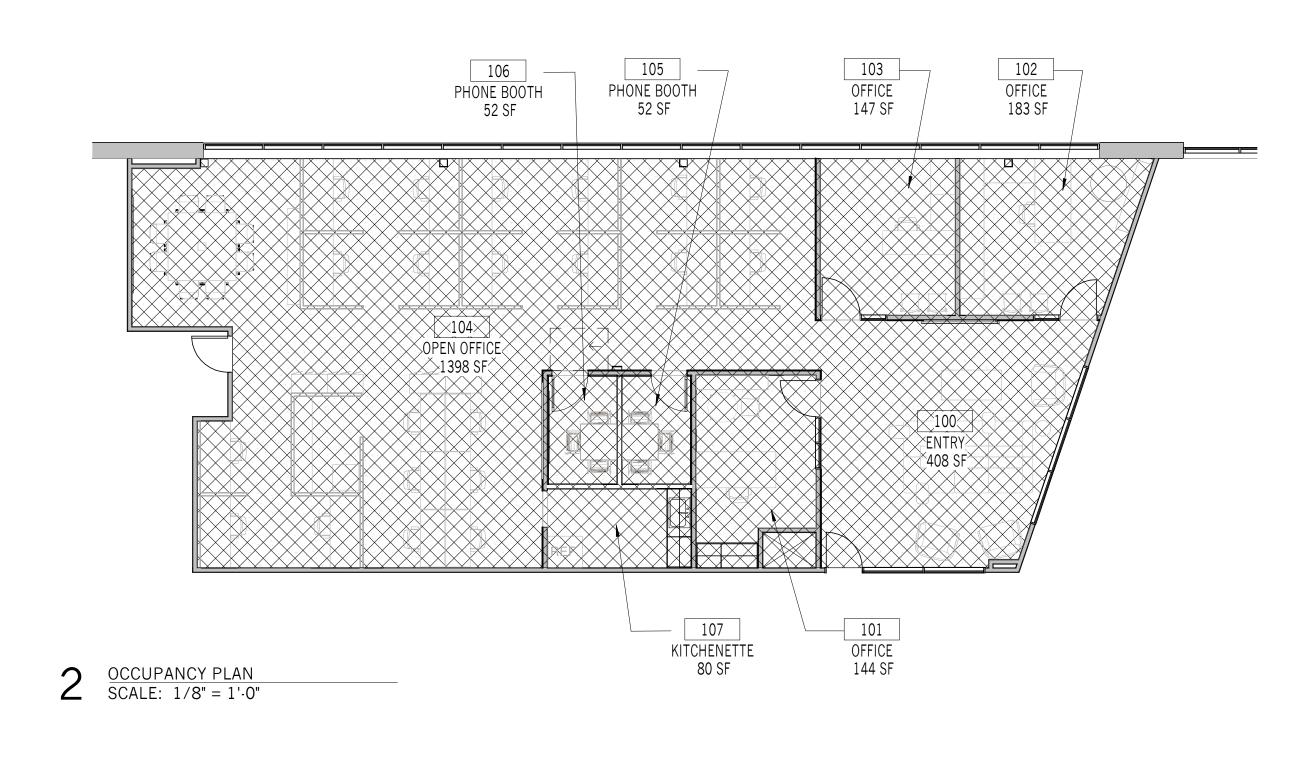
#	ROOM NAME	OCCUPANCY	AREA	LOAD FACTOR	OCC. LOAD
100	ENTRY	BUSINESS	408 SF	100 SF	5
101	OFFICE	BUSINESS	144 SF	100 SF	2
102	OFFICE	BUSINESS	183 SF	100 SF	2
103	OFFICE	BUSINESS	147 SF	100 SF	2
104	OPEN OFFICE	BUSINESS	1398 SF	100 SF	14
105	PHONE BOOTH	BUSINESS	52 SF	100 SF	1
106	PHONE BOOTH	BUSINESS	52 SF	100 SF	1
107	KITCHENETTE	BUSINESS	80 SF	100 SF	1
	-		2463 SF		28

FIRE SEPARATION REQUIREMENTS

SINGLE OCCUPANCY, NO SEPARATION NEEDED

**INTERIOR FINISHES** 

WALL & CEILING FIN VERTICAL EXITS & CORRIDORS & ENC ROOMS AND ENCLO



#### CODE REVIEW: CONSTRUCTION TYPE & FIRE RESISTANCE

INISHES FLAME SPREAD (MBC TABLE 803.11)	CLASS
PASSAGEWAYS	В
CLOSURES	С
.OSED SPACES	С

#### CODE REVIEW: FIRE PROTECTION

#### PORTABLE FIRE EXTINGUISHERS (MBC SEC. 906.1)

COMPLIANCE

IN GROUP B, PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:

WITHIN 30' OF COMMERCIAL COOKING EQ IN AREAS WHERE COMBUSTIBLE LIQUIDS ON EACH FLOOR OF STRUCTURES UNDER	ARE STORED	N/A N/A COMPLIES
FIRE ALARM AND DETECTION SYSTEMS	(MBC SEC. 907.2.1)	COMPLIANCE

IN GROUP B. FIRE ALARM SHALL BE INSTALLED WHERE OCC. LOAD ≥ 500 EXISTING / COMPLIES

DOOR B (EXISTING) WIDTH = 36"	53"-3" TO DOOR 154'-0" TO EXIT	EXIT SEPARATION REF.	86 . 9 NAX OVERAL

EGRESS & LIFE SAFETY PLAN SCALE: 1/8" = 1'-0"

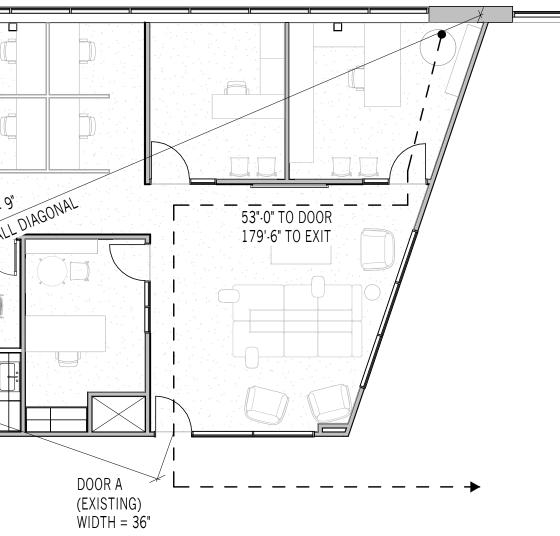
### CODE REVIEW: EGRESS

EGRESS REQUIREMENTS	REQUIRED	COMPLIANCE
EXITS REQUIRED (MRCEB SEC 805.4.1.1) DOOR SWING (MRCEB SEC 805.4.2) PANIC HARDWARE REQUIRED (MRCEB SEC 805.4.4)	2 N/A NO	2 - COMPLIES N/A N - COMPLIES
EXIT ACCESS DISTANCE	REQUIRED	COMPLIANCE
MAX. COMMON PATH OF TRAVEL (MBC TABLE 1006.2.1) MAXIMUM TRAVEL DISTANCE(MBC TABLE 1017.2) DEAD END CORRIDOR LENGTH (MRCEB SEC 805.6) TRAVEL DIST. STORIES W/ ONE EXIT (MBC TABLE 1006.3.2	100' 300' (S) 35' (2)) 75'	COMPLIES COMPLIES COMPLIES N/A
EGRESS WIDTH	REQUIRED	COMPLIANCE
STAIRWAYS @ 0.3"/OCC (MBC SEC. 1005.3.2) DOORS @ 0.2"/OCC (MBC SEC. 1005.3.2)	8.4" 4.2"	N/A 72" · COMPLIES
DISTANCE BETWEEN EXITS (MBC SEC. 1007.1)		
1/2 OF THE MAXIMUM DIAGONAL DIMENSION	86'-9" / 2 = 43'-4.5"	54'-0" - COMPLIES



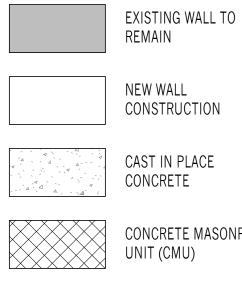
PER MBC SECTION 1016.2 · 2. EGRESS FROM A ROOM OR SPACE SHALL NOT PASS THROUGH ADJOINING OR INTERVENING ROOMS OR AREAS, EXCEPT WHERE SUCH ADJOINING ROOMS OR AREAS AND THE AREA SERVED ARE ACCESSORY TO ONE OR THE OTHER, ARE NOT A GROUP H OCCUPANCY AND PROVIDE A DISCERNIBLE PATH OF EGRESS TRAVEL TO AN EXIT.

COMPLIES





#### MATERIAL KEY



NEW WALL CONSTRUCTION CAST IN PLACE CONCRETE

CONCRETE MASONRY UNIT (CMU)



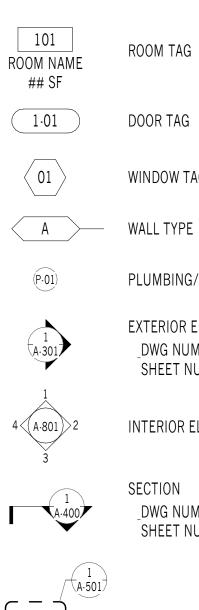
CRUSHED STONE

STEEL

RIGID INSULATION

ALUMINUM

### DRAWING SYMBOL KEY



DOOR TAG WINDOW TAG WALL TYPE PLUMBING/EQUIP TAG

EXTERIOR ELEVATION DWG NUMBER SHEET NUMBER

INTERIOR ELEVATION(S)

SECTION DWG NUMBER\_ SHEET NUMBER

DETAIL CALL OUT



— — — — SETBACK



L \_\_ \_ J

F FLOOR

W WALL

B BASE

T TRIM

CR CROWN

MW MILLWORK

C CEILING

REVISION TAG STRUCTURAL GRID LINE LANDING ELEVATION MARKER ----- LOT LINE

DRYWALL / PLASTER

WOOD · DIMENSIONAL

WOOD · BLOCKING

BATT INSULATION

SPRAY FOAM

INSULATION

DEMO WALL

FINISH TAG

EARTH / SOIL

PLYWOOD

WOOD

LUMBER

------ ONE HOUR WALL —— - - —— TWO HOUR WALL

#### POWER & DATA KEY

SYMBOL	DESCRIPTION
	DUPLEX
$\square$	DUPLEX - SPECIFIC MOUNTING HT.
GFC	DUPLEX · GFCI
₹ ₽	DUPLEX - WATERPROOF
•	DUPLEX - SWITCHED
$\bigcirc$	DENOTES EXISTING
$\Rightarrow$	QUADPLEX
	DUPLEX IN FLOOR / COUNTER
	DUPLEX IN CEILING
\$ <sub>os</sub>	SWITCH
\$ <sub>D</sub>	DIMMER SWITCH
\$ <sub>3</sub>	THREE-WAY SWITCH
\$ <sub>3D</sub>	THREE-WAY DIMMER SWITCH
\$ <sub>J</sub>	JAMB SWITCH
\$	SWITCH WITH OCC. SENSOR
$\square$	TELEPHONE
	DATA
	TELEPHONE & DATA
TV	TELEVISION
$\langle \underline{S} \rangle$	SMOKE DETECTOR
Ċ	CARBON MONOXIDE DETECTOR
S	SPEAKER LOCATION
S	SPEAKER INPUT
	CAMERA

### MECHANICAL KEY

SYMBOL	DESCRIPTION
	EXHAUST FAN
$\square$	FLOOR/CLNG SUPPLY REGISTER
	FLOOR/CLNG RETURN GRILLE
_	WALL/HORIZ. SUPPLY REGISTER
	WALL/HORIZ. RETURN REGISTER
	CEILING GRID SUPPLY REGISTER
	CEILING GRID RETURN GRILLE
	ROUND SUPPLY REGISTER

#### ABBREVIATIONS

ABV ACOUS ADA ADD ADJ AFF ALT ALW ALWB	ABOVE ACOUSTICAL AMERICANS WITH DISABILITIES ACT ADDITIONAL ADJACENT ABOVE FINISHED FLOOR ALTERNATE ALLOW ALLOWABLE	COL CONC CONST CONT COORD CORR CPT CTR CW	COLUMN CONCRETE CONSTRUCTION CONTINUOUS COORDINATE CORRIDOR CARPET CENTER COLD WATER	ENCL ENG EQ EQUIP EST EXH EXP JT EXIST EXT
ALUM	ALUMINUM	DBL	DOUBLE	F&I
ANOD	ANODIZED	DEMO	DEMOLITION	FAB
ARCH	ARCHITECT	DIA	DIAMETER	FBO
ASMB	ASSEMBLY	DEG	DEGREE	FLDR
		DIM	DIMENSION	FIN
BLDG	BUILDING	DW	DRYWALL	FLG
BLT-IN	BUILT-IN	DISP	DISPENSER	FLR
BTW	BETWEEN	DN	DOWN	FLUOR
B/W	BETWEEN	DR	DOOR	FND
		DSPT	DOWNSPOUT	FP
CAB	CABINET	DTL	DETAIL	FO
CEM	CEMENT	DWG	DRAWING	FT
CIP	CAST IN PLACE	EA	EACH	FTG
CL	CENTER LINE	EC	ELECTRICAL CONTRACTOR	
CLG	CEILING	EL	ELEVATION	GA
CLO	CLOSET	ELEC	ELECTRICAL	GALV
CMU	CONCRETE MASONRY UNIT	ELEV	ELEVATOR	GAR

P	ENCLOSURE ENGINEER EQUAL EQUIPMENT ESTIMATE(D) EXHAUST	GC GLZ GR GUT GWB
IT F	EXPANSION JOINT EXISTING EXTERIOR	H/C HALG HB HC
	FURNISH AND INSTALL FABRICATE FURNISH BY OWNER	HD HDF
	FLOOR DRAIN FINISH(ED) FLOORING FLOOR	HDWR HM HORZ HR
R	FLUORESCENT FOUNDATION FIRE PROOFING	HT HVAC
	FACE OF FOOT/FEET FOOTING	HW HWH
	GAUGE GALVANIZED GARAGE	ID IN INCAND INSUL

#### LIGH<u>TING KEY</u>

SYMBOL	DESCRIPTION
$\bigcirc$	RECESSED FIXTURE
2	WALL MOUNTED SCONCE
$\bigcirc$	PENDANT FIXTURE
$\bigcirc$	FLUSH MOUNT FIXTURE
	LED STRIP LIGHT
	TRACK LIGHT
	LINEAR LENSED FIXTURE
	TROFFER FIXTURE
□ M	MOTION SENSOR FLOOD LIGHT
12	EXTERIOR FLOOD LIGHT
W	DENOTES WET-RATED FIXTURE
	DENOTES EXISTING FIXTURES
×	CEILING FAN
-\$ <sup>w</sup>	REC. LIGHT VENT FAN COMBO

#### LIFE SAFETY KEY

SYMBOL	DESCRIPTION
	EXIT SIGN W/ ONE LIGHT
	EXIT SIGN W/ DIR. ARROW
<b>↑</b> €↑	EXIT SIGN W/ TWO LIGHTS
	EXIT SIGN W/ EMERGENCY LTG
	EMERGENCY LIGHTING
FE	PORTABLE FIRE EXTINGUISHER

#### <u>PLUMBING KEY</u>

SYMBOL	DESCRIPTION
	COLD WATER
	HOT WATER
	DRAIN
	VENT
◯ <sub>FD</sub>	FLOOR DRAIN
	ROOF DRAIN

#### **GENERAL NOTES**

1.	CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, INCIDENTALS, AND ANY OTHER ITEMS REQUIRED FOR THE COMPLETION OF THE WORK AS SHOWN IN THE CONTRACT DOCUMENTS, UNLESS OTHERWISE NOTED.	1.
2.	ALL WORK SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND LAWS, AND ANY OTHER APPLICABLE REGULATIONS INCLUDING FIRE DEPARTMENT REGULATIONS, UTILITY COMPANY REQUIREMENTS, AND BEST TRADE PRACTICES.	2.
3.	BEFORE COMMENCING WORK, THE CONTRACTOR SHALL FILE ALL REQUIRED CERTIFICATES OF INSURANCE, OBTAIN ALL REQUIRED PERMITS, AND PAY ALL FEES REQUIRED BY GOVERNING AGENCIES.	3.
4.	NOTIFY ARCHITECT FOR CLARIFICATION IN CASE OF ANY DISCREPANCIES, CONFLICTS, OR OMISSIONS IN THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS. AN ADDENDUM TO THE CONTRACT DOCUMENTS WILL BE PROVIDED AS NECESSARY.	4. 5.
5.	CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS SHOWN ON PLANS AT THE JOB SITE BEFORE COMMENCING ANY WORK, AND SHALL REPORT ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS TO THE ARCHITECT.	<u>F1</u>
6.	DIMENSIONING RULES: 6.1. DIMENSIONS ARE TAKEN FROM FACE OF FINISHED SURFACE TO FACE OF FINISHES SURFACE, UNLESS OTHERWISE NOTED.	1.
	<ul> <li>6.2. DIMENSIONS MARKED "VERIFY", "VERIFY IN FIELD" OR "VIF" SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND DISCUSSED WITH THE ARCHITECT IF DISCREPANCIES ARISE.</li> <li>6.3. DIMENSIONS MARKED "CLEAR" OR "CLR" OR "HOLD" MUST BE PRECISELY MAINTAINED</li> <li>6.4. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT APPROVAL BY ARCHITECT UNLESS MARKED "+/·"</li> <li>6.5. DO NOT SCALE DRAWINGS. NOTIFY ARCHITECT FOR CLARIFICATION IF WRITTEN DIMENSION IS NOT SHOWN IN DRAWINGS.</li> </ul>	2. 3.
7.	CONTRACTOR SHALL LAY OUT THEIR OWN WORK, AND SHALL PROVIDE ALL DIMENSIONS REQUIRED FOR OTHER TRADES.	
8.	ABBREVIATIONS ON THE DRAWINGS ARE AS NOTED IN THE KEY. NOTIFY ARCHITECT OF ANY ABBREVIATIONS IN QUESTION.	<u>RC</u>
9.	MAINTAIN A FREE AND SAFE PASSAGE TO AND FROM CONSTRUCTION AREA AND ADJACENT BUILDING AREAS AT ALL TIME. REQUIRED EXITS SHOULD NOT BE BLOCKED AT ANY TIME.	1.
10.	SUBMIT SHOP DRAWINGS, MOCK-UPS, SAMPLES, AND OTHER REQUIRED SUBMITTALS IN A TIMELY FASHION AND ALLOW ARCHITECT SUFFICIENT TIME, MINIMUM OF (5) WORKING DAYS, FOR REVIEW PRIOR TO FABRICATION OR ORDER PLACEMENT.	2.
<u>DE</u>	MOLITION NOTES	3.
1.	DEMOLITION SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES, ORDINANCES, AND REGULATIONS PERTAINING TO SAFETY OF PERSONS, PROPERTY, AND ENVIRONMENTAL PROTECTION.	4.
2.	ALL EXISTING WALLS, GLAZING, AND OTHER WORK TO REMAIN SHALL BE FULLY PROTECTED FROM DAMAGE PROVIDE BRACING OR SHORING AS REQUIRED TO SUPPORT THE STRUCTURE DURING DEMOLITION. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DAMAGE AND SHALL MAKE REQUIRED REPAIRS WITHOUT ADDITIONAL COST TO THE OWNER. REPAIR DAMAGED SURFACES TO MATCH ADJACENT SURFACES.	5. 6. 7.
3.	COORDINATE DEMOLITION REQUIRED TO PERFORM NEW WORK WITH CONTRACT DOCUMENTS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.	8.
4.	REMOVE ABANDONED HVAC EQUIPMENT, DUCTWORK, ELECTRICAL, AND PLUMBING BACK TO THEIR PRIMARY SOURCE OR AS DIRECTED. DISCONNECT, CAP, AND IDENTIFY ALL UTILITIES IN AREAS OF DEMOLITION. MAINTAIN UTILITIES TO ALL OCCUPIED AREAS OF THE BUILDING AND COORDINATE TEMPORARY DISRUPTION WITH OWNER AND ANY OTHER AFFECTED PARTIES.	9.
5.	CAREFULLY REMOVE, PROTECT, AND STORE FOR REINSTALLATION OR SALVAGE ALL: LIGHT FIXTURES, PLUMBING FIXTURES, DOORS, FIRE SAFETY & EMERGENCY FIXTURES.	10.
6.	PROVIDE ENCLOSURE AND PROTECTION AS REQUIRED TO CONTAIN SPREAD OF ALL DUST, FUMES, ETC. PRODUCED DURING DEMOLITION AND CONSTRUCTION.	11.
7.	REMOVE AND LEGALLY DISPOSE OF ALL DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM DEMOLITION OR CONSTRUCTION. IN OCCUPIED AREAS, CLEAN AND DISPOSE OF MATERIALS DAILY.	
8.	REMOVE TOOLS AND EQUIPMENT FROM SITE UPON COMPLETION OF WORK. LEAVE AREAS AND SITE BROOM SWEPT, ORDERLY, AND IN CONDITION ACCEPTABLE FOR CONSTRUCTION.	12.

GENERAL CONTRACTOR	INT	INTERIOR	MFTR	MANUFACTURER	PLUM	PLUMBING
GLAZING			MH	MANHOLE	PLY	PLYWOOD
GRADE	JBOX	JUNCTION BOX	MIN	MINIMUM	PNT	PAINT
GUTTER	JC	JANITORS CLOSET	MIR	MIRROR	POL	POLISHED
GYPSUM WALL BOARD	JST	JOIST	MISC	MISCELLANEOUS	PRTN	PARTITION
	JNT	JOINT	MMR	MOISTURE & MOLD	PSF	POUNDS PER SQUARE FOOT
HANDICAPPED				RESISTANT	PT	PRESSURE TREATED
HALOGEN	KIT	KITCHEN	MO	MASONRY OPENING	PTD	PAINTED
HOSE BIB			MTL	METAL		
HOLLOW CORE	L	LENGTH	MUL	MULLION	QUAL	QUALITY
HEAD	LAM	LAMINATE			QΤΥ	QUANTITY
HIGH DENSITY FIBER	LAV	LAVATORY	NFC	NOT FOR CONSTRUCTION	· ·	
BOARD	LBS	POUNDS	NIC	NOT IN CONTRACT	R	RISER
HARDWARE	LF	LINEAR FEET	NO	NUMBER	RAD	RADIUS
HOLLOW METAL	LN	LINEAR	NOM	NOMINAL	RD	ROOF DRAIN
HORIZONTAL	LT	LIGHT	NTS	NOT TO SCALE	RECT	RECTANGULAR
HOUR					REF	REFERENCE
HEIGHT	MACH	MACHINE	OC	ON CENTER	REINF	REINFORCED
HEATING, VENTILATION &	MAS	MASONRY	OD	OUTSIDE DIAMETER	REQD	REQUIRED
AIR CONDITIONING	MAX	MAXIMUM	OPNG	OPENING	REV	REVISION
HOT WATER	MC	MECHANICAL	OPP	OPPOSITE	RF	ROOF
HOT WATER HEATER		CONTRACTOR	OPT	OPTION(AL)	RM	ROOM
	MDF	MEDIUM DENSITY FIBER	OZ	OUNCE	RO	ROUGH OPENING
INSIDE DIAMETER		BOARD				
INCH	MECH	MECHANICAL	PH	PENTHOUSE	SAN	SANITARY
INCANDESCENT	MEMB	MEMBRANE	PL	PROPERTY LINE	SCHED	SCHEDULE
INSULATION	MFTD	MANUFACTURED	PLAS	PLASTIC	SECT	SECTION

#### <u>PLAN NOTES</u>

LAYOUT PARTITIONS AS NOTED ON DRAWING. CUT AND FIT COMPONENTS OF EXISTING WORK AS REQUIRED TO INSTALL NEW WORK. ALL NEW FINISHES ARE TO ALIGN FLUSH WITH EXISTING FINISHES WITHOUT EVIDENCE OF ADDITION. WHERE NEW GYPSUM BOARD ALIGNS WITH EXISTING PLASTER. ALIGN THE PARTITION STUD TO CREATE FLUSH SURFACE.

TYPICAL DETAILS ARE KEYED AND NOTED "TYPICAL" AND ARE USUALLY REPRESENTATIVE OF TYPICAL CONDITIONS THROUGHOUT. IN CASE OF QUESTION OR DISCREPANCY, NOTIFY ARCHITECT.

PROVIDE EXTRA STUD FOR SWITCH OR POWER OUTLETS AS REQUIRED. REINFORCE DOOR AND WINDOW JAMBS WITH EXTRA STUD AS REQUIRED.

PROVIDE FIRE DAMPERS AT ALL DUCT PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.

ALL FIRE RATED DOORS AND WINDOWS SHALL BE LABELED AS REQUIRED BY CODE. TEMPERED GLASS TO BE INSTALLED WITH MANUFACTURER'S SEAL IN BOTTOM CORNER.

#### INISH NOTES

FINISHES SHALL BE CONTINUOUS THROUGHOUT UNLESS OTHERWISE NOTED. APPLY FINISHES AND COVERINGS SO SURFACE IS DIVIDED WITH A MINIMUM NUMBER OF SEAMS AND EQUAL WIDTH PANELS. UNLESS OTHERWISE NOTED.

ALL FINISH MATERIALS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS.

PROVIDE LEVELING COMPOUND AS REQUIRED SO THAT FLOORING TRANSITIONS ARE SMOOTH FROM ONE SURFACE TO THE NEXT. FEATHER TRANSITIONS AT 1" PER 20" MAXIMUM. ALL TRANSITIONS BETWEEN FLOOR FINISHES TO BE LOCATED DIRECTLY UNDER CENTER OF DOOR, UNLESS OTHERWISE NOTED. PROVIDE TRANSITION STRIPS AS REQUIRED, COORDINATE FINISH & LOCATION WITH ARCHITECT.

### CP, MECHANICAL, ELECTRICAL, AND PLUMBING NOTES

UNLESS OTHERWISE NOTED, ALL MECHANICAL, ELECTRICAL, AND PLUMBING FIXTURES SHALL BE LOCATED AS SHOWN IN THE TYPICAL MOUNTING RULES DIAGRAM. ACCESS PANELS SHALL BE PROVIDED AS REQUIRED BY CODE AND PER MANUFACTURER'S INSTRUCTIONS FOR MAINTENANCE AND REPAIRS.

IF EXISTING LOCATIONS DO NOT CONFLICT WITH CODE OR MAXIMUM/MINIMUM REACH HEIGHTS, RECEPTACLES SHOULD BE MOUNTED TO MATCH THE HEIGHT AND ORIENTATION OF EXISTING RECEPTACLES IN ROOM. SWITCHES TO BE MOUNTED TO MATCH THE HEIGHT OF EXISTING SWITCHES IN ROOM. IF NO REFERENCE EXISTS, ALL RECEPTACLES & LIGHT FIXTURES SHALL BE MOUNTED AT THE HEIGHTS SPECIFIED IN THE TYPICAL MOUNTING RULES DIAGRAM, UNLESS OTHERWISE NOTED.

SWITCHES, FIXTURES, AND RECEPTACLES SHOWN ADJACENT ON PLAN WITH DIMENSION ONLY TO ONE OF THEM SHOULD BE GANGED IN BANKS. SWITCHES, FIXTURES, AND RECEPTACLES WITH DISSIMILAR MOUNTING HEIGHTS SHOWN ADJACENT ON PLAN SHALL BE STACKED VERTICALLY.

EXISTING OUTLETS, FIXTURES, AND SWITCHES NOT SHOWN ON PLAN TO REMAIN AND BE REUSED.

ALL APPLIANCE-SPECIFIC OUTLETS TO BE COORDINATED WITH APPLIANCE SELECTION.

OUTLETS AND SWITCHES SHOULD NOT BE INSTALLED BACK-TO-BACK WITHOUT SEPARATING STUD OR INSULATION.

PROVIDE GFCI OUTLETS AND WET-RATED FIXTURES IN ALL WET AREAS, OUTDOOR AREAS, AND ANY OTHER LOCATION REQUIRED BY CODE.

ALL SWITCH PLATES AND OUTLETS COVERS, ETC., SHOULD BE INSTALLED AFTER PAINTING AND WALL COVERINGS ARE INSTALLED. PROTECTIVE COVERINGS ON ALL FIXTURES SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED. DAMAGED FIXTURES SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.

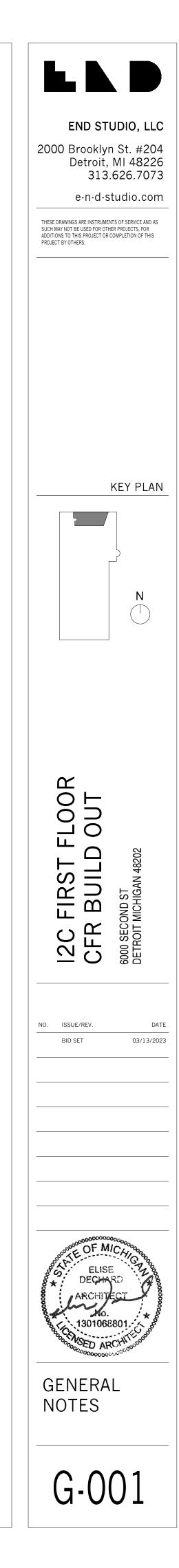
PROVIDE EMERGENCY LIGHTING AND EXIT SIGNAGE AS REQUIRED BY CODE.

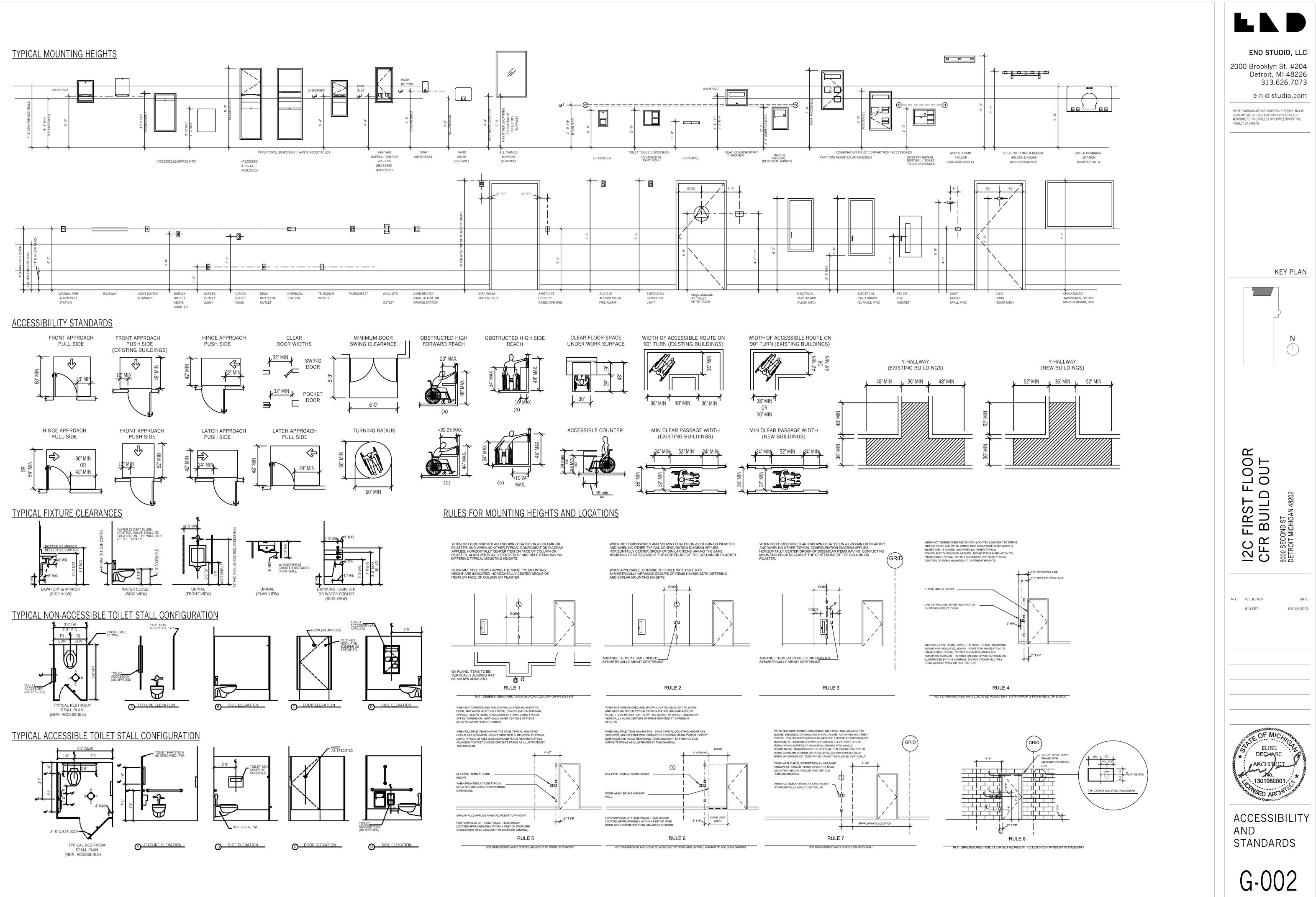
COORDINATE LIGHT FIXTURE AND MECHANICAL REGISTER LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. IF ANY CONFLICT OCCURS BETWEEN THE WORK OF SEPARATE TRADES OR BETWEEN DRAWINGS AND EXISTING CONDITIONS, COORDINATE WITH ARCHITECT IN FIELD.

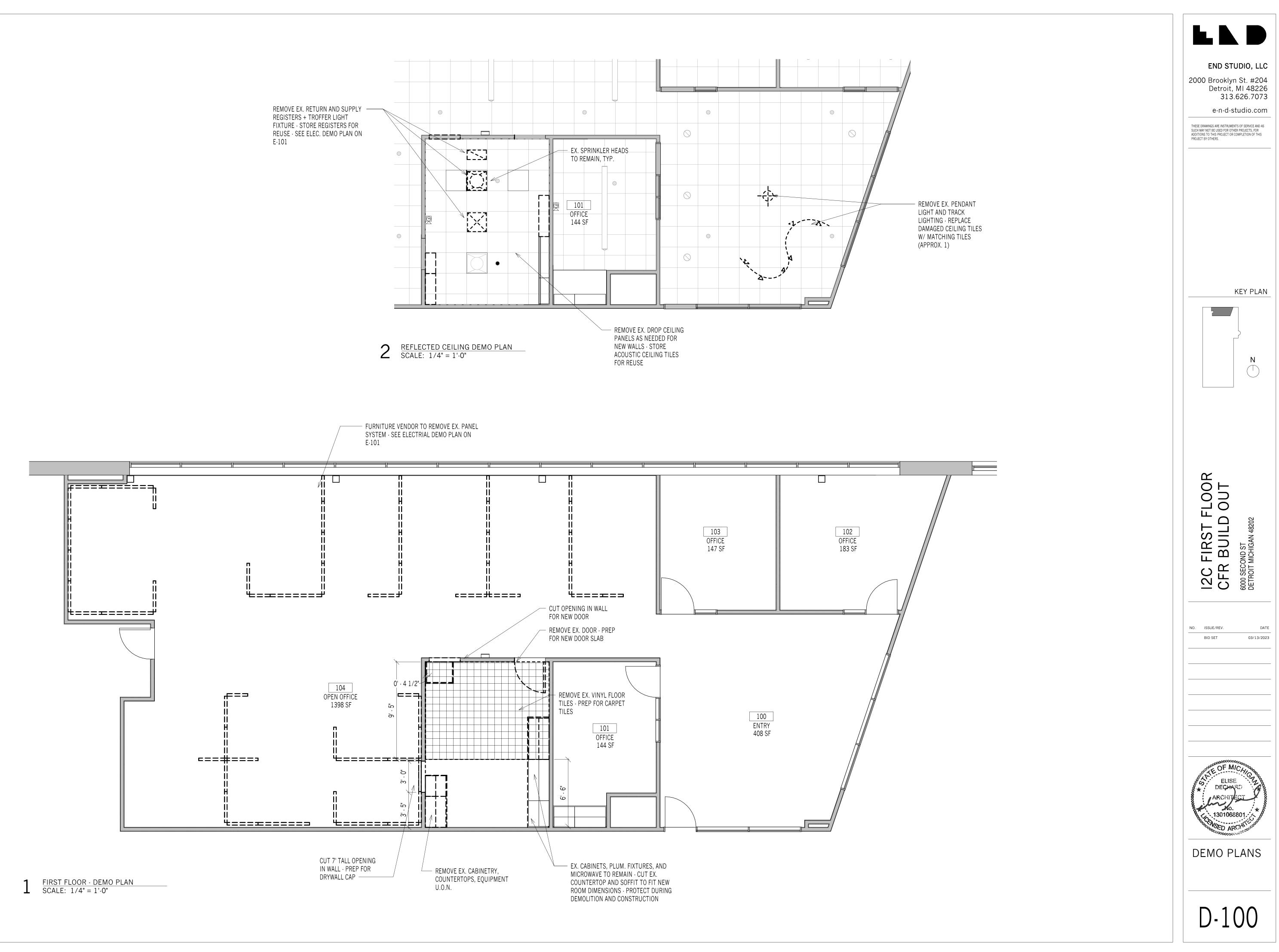
WHERE ACOUSTICAL TILES ARE REQUIRED TO BE CUT, CUT TO MAINTAIN A SHARP AND NEAT EDGE. INSTALL ALL LIGHTS, REGISTERS, SIGNAGE, AND OTHER FIXTURES AND EQUIPMENT IN THE CENTER OF TILE UNLESS OTHERWISE NOTED.

UNLESS OTHERWISE NOTED, ALL CONDUIT SHOULD BE STRAIGHT AND TRUE AND AT RIGHT ANGLES, AND AS EFFICIENT AS POSSIBLE, UNLESS OTHERWISE NOTED.

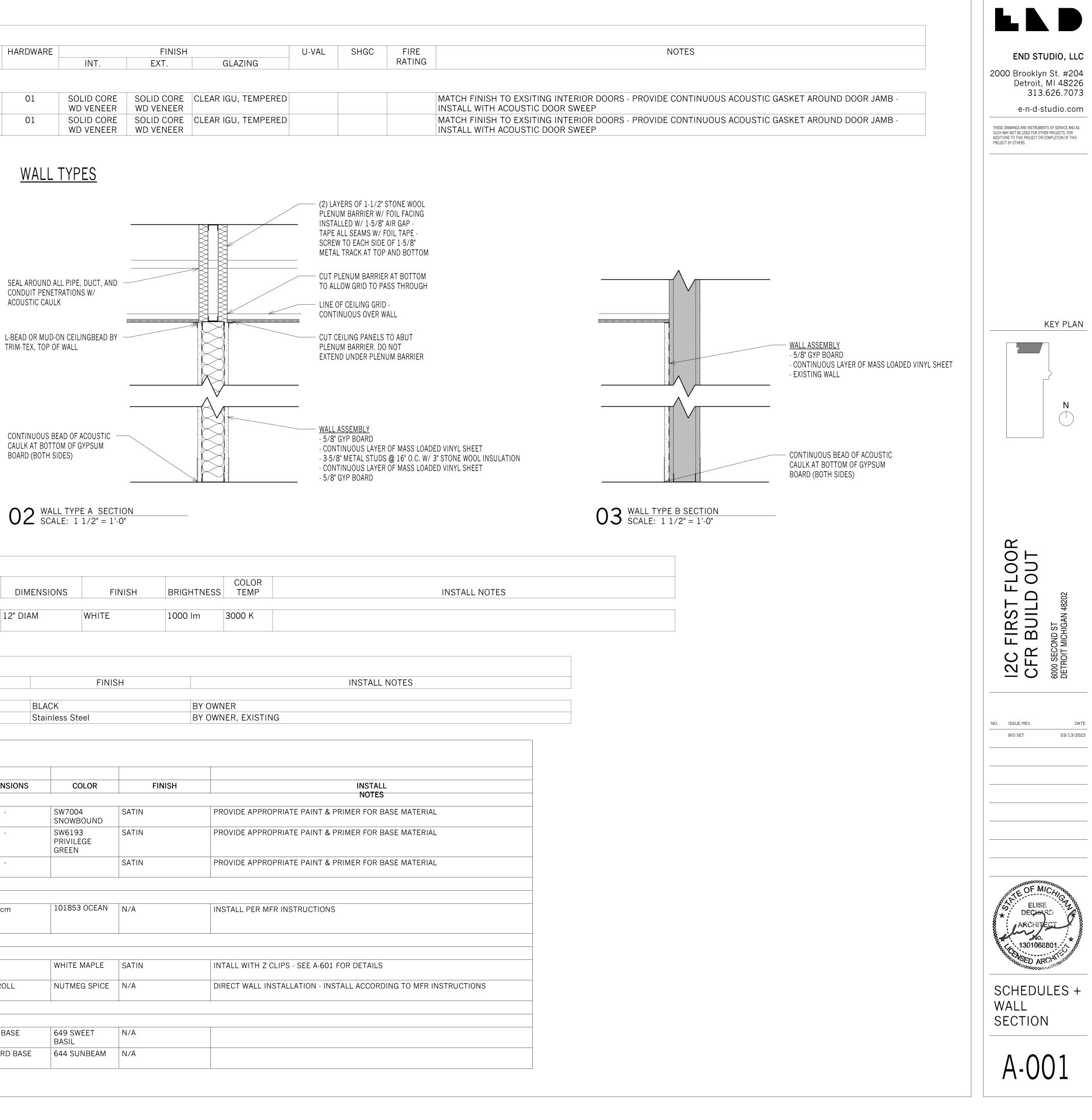
SF SHT SIM SPEC SQ SS STD STL	SQUARE FOOT SHEET SIMILAR SPECIFICATION SQUARE STAINLESS STEEL STANDARD STEEL	W/O WAT WC WD WP WPT WT	WITHOUT WATER WATER CLOSET WOOD WATERPROOFING WORKING POINT WEIGHT
STR STRUC SUP SUSP SYM SYST	STEEL STAIR STRUCTURE SUPPLY SUSPENDED SYMMETRICAL SYSTEM	&, + @	AND AT
UL UON UPH	UNDERWRITERS LABORATORY UNLESS OTHERWISE NOTED UPHOLSTERY		
VNL VERT VEST VIF	VINYL VERTICAL VESTIBULE VERIFY IN FIELD		
W W/	WIDTH WITH		

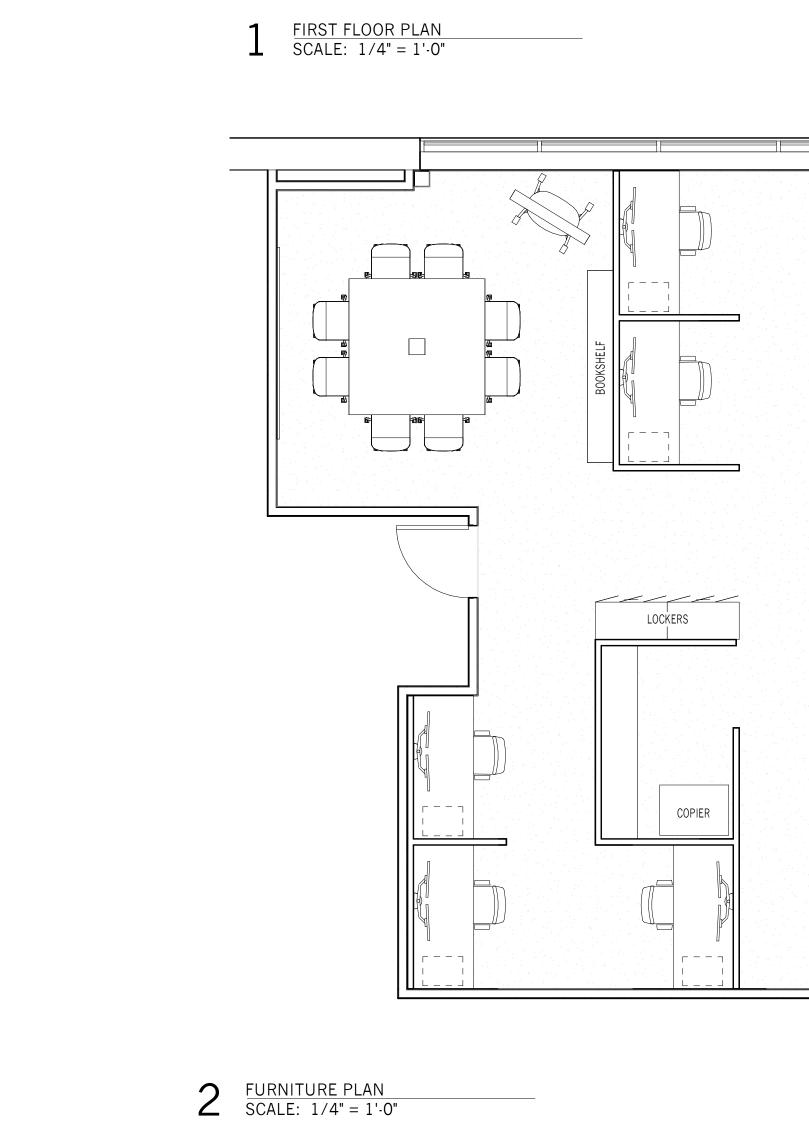






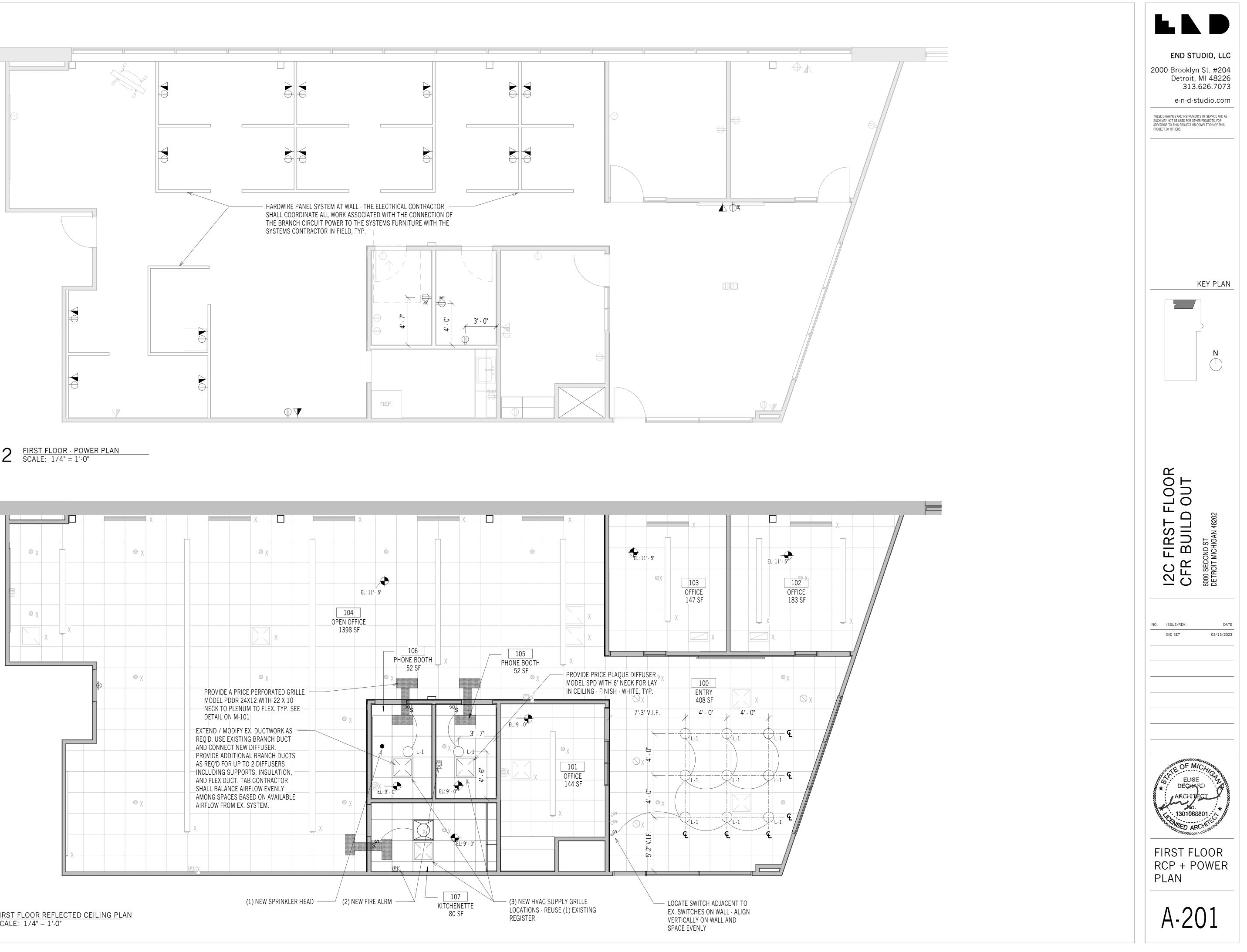
#	MANUFACTURER	MODEL	STYLE	SIZE	TYPE HARDWA		FINISH		U-VAL	SHGC	FIRE	
				W H		INT.	EXT.	GLAZING			RATING	
terior 101	TBD	TBD	FULL LITE WOOD	3' - 0" 7' - 0"	A 01	SOLID CORE		CLEAR IGU, TEMPERED				MATCH FINISH TO EXSITING INTERIOR DOC
102	TBD	TBD	DOOR FULL LITE WOOD DOOR	3' - 0" 7' - 0"	A 01	WD VENEER SOLID CORE	SOLID CORE	CLEAR IGU, TEMPERED				INSTALL WITH ACOUSTIC DOOR SWEEP MATCH FINISH TO EXSITING INTERIOR DOO
			DUUK			WD VENEER	WD VENEER					INSTALL WITH ACOUSTIC DOOR SWEEP
	SEE SCHED.		HARDWARE	SETS	WΑ	LL TYPES						
					<u></u>							
			HARDWARE SPECS PROV FORMAT - QTY DESCRIP	/IDED BY ALLEGION TION - CATALOGUE NUMBER - FINISH - MFF	?				PLEN	YERS OF 1-1/2" UM BARRIER W/ ALLED W/ 1-5/8"	FOIL FACING	
			3 HINGES - # 5BE	R LOCKSET · OCCUPANCY INDICATOR 31 4.5 X4.5 · FINISH 652 · IVE					TAPE SCRE	ALL SEAMS W/ F W TO EACH SIDE	OIL TAPE - OF 1-5/8"	
	SCHED.			# L9040 03N 09-544 L283-722 - FINISH 6 VS33X - FINISH 626 - IVE	26 - SCH					L TRACK AT TOP		
	SEE SC				CONDUIT F	IND ALL PIPE, DUCT, AND PENETRATIONS W/			·	PLENUM BARRIE		
					ACOUSTIC	CAULK				OF CEILING GRID INUOUS OVER W		
						MUD-ON CEILINGBEAD BY				CEILING PANELS		
					TRIMPLEA, T	OP OF WALL				UM BARRIER. DC ND UNDER PLEN		
									_			
(	) 1 $\frac{\text{DOOR TYPE A}}{\text{SCALE: } 1/2" = 1' \cdot 0"}$											
						US BEAD OF ACOUSTIC -				<u>ASSEMBLY</u> GYP BOARD		
					CAULK AT BOARD (BC	BOTTOM OF GYPSUM )TH SIDES)			- 3-5/	8" METAL STUDS	6 @ 16" O.C. W/	DED VINYL SHEET 7 3" STONE WOOL INSULATION
										GYP BOARD	OF MASS LUAL	DED VINYL SHEET
					$\cap \mathcal{O}$	WALL IYPE A SECT	ION					$\cap$
					02	WALL TYPE A SECT SCALE: 1 1/2" = 1'-	<u>ION</u> 0"					0.
					02	$\frac{\text{WALL TYPE A SECT}}{\text{SCALE: 1 1/2"} = 1'}$	<u>ION</u> 0"					03
	G SCHEDULE							COLOR				
#	LOCATION			ACTURER MOE	DEL DIMEN	ISIONS FII	NISH BRIGH	HTNESS TEMP				INSTALL NOTES
		ITEM NAM				ISIONS FII		HTNESS TEMP				
# L-1	LOCATION ENTRY + PHONE BOOTHS				DEL DIMEN	ISIONS FII	NISH BRIGH	HTNESS TEMP				
# L-1	LOCATION ENTRY + PHONE	LEO HANGING GLOBE	PENDANT SEA GULL LIG		DEL DIMEN	ISIONS FII	NISH BRIGH	HTNESS TEMP		INSTALL	NOTES	
# L-1 EQUIPM	LOCATION ENTRY + PHONE BOOTHS ENT SCHEDULE	LEO HANGING GLOBE	PENDANT SEA GULL LIG	HTING SGL2186095	DEL DIMEN 12" DIAM MODEL	ISIONS FII WHITE	NISH BRIGH 1000 H	HTNESS TEMP		INSTALL	NOTES	
# L-1 EQUIPM #	LOCATION ENTRY + PHONE BOOTHS ENT SCHEDULE LOCATION	LEO HANGING GLOBE	PENDANT SEA GULL LIG EM NAME TBD	HTING SGL2186095	DEL DIMEN 12" DIAM MODEL BI	ISIONS FII WHITE FINIS	NISH BRIGH 1000 H	HTNESS TEMP		INSTALL	NOTES	
# L-1 EQUIPM # E-1 E-2 FINISH	LOCATION ENTRY + PHONE BOOTHS ENT SCHEDULE LOCATION ENTRY KITCHENETTE	LEO HANGING GLOBE	PENDANT SEA GULL LIG EM NAME TBD	MANUFACTURER	DEL DIMEN 12" DIAM MODEL BI	ISIONS FII WHITE FINIS	NISH BRIGH 1000 H	HTNESS TEMP		INSTALL	NOTES	
# L-1 EQUIPM # E-1 E-2 FINISH SCHEDUI	LOCATION ENTRY + PHONE BOOTHS ENT SCHEDULE LOCATION ENTRY KITCHENETTE	LEO HANGING GLOBE	PENDANT SEA GULL LIG EM NAME TBD EFRIGERATOR N/A	MANUFACTURER TBD N/A	DEL DIMEN 12" DIAM MODEL BI St	ISIONS FII WHITE FINIS -ACK ainless Steel	NISH BRIGH	HTNESS TEMP				
# L-1 EQUIPM # E-1 E-2 FINISH SCHEDUI	LOCATION ENTRY + PHONE BOOTHS ENT SCHEDULE LOCATION ENTRY KITCHENETTE	LEO HANGING GLOBE	PENDANT SEA GULL LIG EM NAME TBD	MANUFACTURER TBD N/A	DEL DIMEN 12" DIAM MODEL BI	ISIONS FII WHITE FINIS	NISH BRIGH 1000 H	HTNESS TEMP		INSTALL		
# L-1 EQUIPM # E-1 E-2 FINISH SCHEDUI # PAINT PNT-01	LOCATION ENTRY + PHONE BOOTHS ENT SCHEDULE LOCATION ENTRY KITCHENETTE LOCATION ENTRY + OPEN OFFICE	LEO HANGING GLOBE	PENDANT SEA GULL LIG EM NAME TBD EFRIGERATOR N/A MANUFACTURER SHERWIN WILLIAMS	MANUFACTURER MANUFACTURER TBD N/A TBD N/A	DEL DIMEN 12" DIAM MODEL BI St	ISIONS FII WHITE WHITE FINIS ACK ainless Steel COLOR	NISH BRIGH	HTNESS TEMP		INSTALL NOTES PRIMER FOR B	- ASE MATERIA	INSTALL NOTES
# L-1 EQUIPM # E-1 E-2 FINISH SCHEDUI # PAINT PNT-01	LOCATION ENTRY + PHONE BOOTHS ENT SCHEDULE LOCATION ENTRY KITCHENETTE LOCATION LOCATION	LEO HANGING GLOBE	PENDANT SEA GULL LIG EM NAME TBD EFRIGERATOR N/A	MANUFACTURER MANUFACTURER TBD N/A TBD N/A	DEL DIMEN 12" DIAM MODEL BI St St	ISIONS FII WHITE WHITE FINIS ACK ainless Steel COLOR	NISH BRIGH	HTNESS TEMP		INSTALL NOTES PRIMER FOR B	- ASE MATERIA	INSTALL NOTES
# L-1 EQUIPM # E-1 E-2 FINISH SCHEDUI # PAINT PNT-01 PNT-01 PNT-02	LOCATION ENTRY + PHONE BOOTHS ENT SCHEDULE LOCATION ENTRY KITCHENETTE LOCATION ENTRY + OPEN OFFICE	LEO HANGING GLOBE	PENDANT SEA GULL LIG EM NAME TBD EFRIGERATOR N/A MANUFACTURER SHERWIN WILLIAMS	MANUFACTURER MANUFACTURER TBD N/A TBD N/A EMERALD INTERIOR ACRYLIC LATEX PAINT EMERALD INTERIOR ACRYLIC LATEX PAINT EMERALD INTERIOR ACRYLIC LATEX PAINT	DEL DIMEN 12" DIAM MODEL BI BI St St DIMENSIONS	ISIONS FII UWHITE WHITE FINIS ACK ainless Steel COLOR SW7004 SNOWBOUND SW6193 PRIVILEGE GREEN	NISH BRIGH	HTNESS TEMP	TE PAINT & F	INSTALL NOTES PRIMER FOR B PRIMER FOR B	- ASE MATERIA ASE MATERIA	INSTALL NOTES
# L-1 EQUIPM # E-1 E-2 FINISH SCHEDUI # PAINT PNT-01 PNT-02 PNT-03	LOCATION ENTRY + PHONE BOOTHS ENT SCHEDULE LOCATION ENTRY KITCHENETTE LOCATION ENTRY + OPEN OFFICE PHONE BOOTHS	LEO HANGING GLOBE	PENDANT SEA GULL LIG	MANUFACTURER MANUFACTURER TBD N/A N/A R MODEL / DESCRIPTION EMERALD INTERIOR ACRYLIC LATEX PAINT EMERALD INTERIOR ACRYLIC LATEX PAINT EMERALD INTERIOR ACRYLIC	DEL DIMEN 12" DIAM MODEL BI St St DIMENSIONS	ISIONS FII UWHITE WHITE FINIS ACK ainless Steel COLOR SW7004 SNOWBOUND SW6193 PRIVILEGE GREEN	NISH BRIGH	HTNESS TEMP	TE PAINT & F	INSTALL NOTES PRIMER FOR B PRIMER FOR B	- ASE MATERIA ASE MATERIA	INSTALL NOTES
# L-1 EQUIPM # E-1 E-2 FINISH SCHEDUI # PAINT PNT-01 PNT-02 PNT-03 FLOOR	LOCATION ENTRY + PHONE BOOTHS ENT SCHEDULE LOCATION ENTRY KITCHENETTE LOCATION ENTRY + OPEN OFFICE PHONE BOOTHS	LEO HANGING GLOBE	PENDANT SEA GULL LIG	MANUFACTURER MANUFACTURER TBD N/A TBD N/A EMERALD INTERIOR ACRYLIC LATEX PAINT EMERALD INTERIOR ACRYLIC LATEX PAINT EMERALD INTERIOR ACRYLIC LATEX PAINT EMERALD INTERIOR ACRYLIC LATEX PAINT MONOCHROME MODULAR CARPET TILE W/ GLASBAC	DEL DIMEN 12" DIAM MODEL BI St St DIMENSIONS	ISIONS FII UWHITE FINIS ACK ainless Steel  SW7004 SNOWBOUND SW6193 PRIVILEGE GREEN SW6193 SPRIVILEGE GREEN	NISH BRIGH	HTNESS TEMP	TE PAINT & F	INSTALL NOTES PRIMER FOR B PRIMER FOR B	- ASE MATERIA ASE MATERIA	INSTALL NOTES
# L-1 EQUIPM # E-1 E-2 FINISH SCHEDUI # PAINT PNT-01 PNT-01 PNT-02 PNT-03 FLOOR CPT-01	LOCATION ENTRY + PHONE BOOTHS ENT SCHEDULE LOCATION ENTRY KITCHENETTE LOCATION ENTRY + OPEN OFFICE PHONE BOOTHS KITCHENETTE	LEO HANGING GLOBE	PENDANT SEA GULL LIG	AMANUFACTURER MANUFACTURER MANUFACTURER TBD N/A TBD N/A  R MODEL / DESCRIPTION EMERALD INTERIOR ACRYLIC LATEX PAINT MONOCHROME MODULAR	DEL DIMEN 12" DIAM MODEL BI St St St St I	ISIONS FII ISIONS FII WHITE FINIS ACK ainless Steel  COLOR  SW7004 SNOWBOUND SW6193 PRIVILEGE GREEN SW6193 PRIVILEGE GREEN	NISH BRIGH	HTNESS       TEMP         Im       3000 K         BY OWNER       Im         BY OWNER, EXISTING         BY OWNER, EXISTING         PROVIDE APPROPRIA         PROVIDE APPROPRIA         PROVIDE APPROPRIA	TE PAINT & F	INSTALL NOTES PRIMER FOR B PRIMER FOR B	- ASE MATERIA ASE MATERIA	INSTALL NOTES
# L-1 EQUIPM # E-1 E-2 FINISH SCHEDUI # PAINT PNT-01 PNT-01 PNT-02 PNT-03 FLOOR CPT-01	LOCATION ENTRY + PHONE BOOTHS ENT SCHEDULE LOCATION ENTRY KITCHENETTE LOCATION ENTRY + OPEN OFFICE PHONE BOOTHS KITCHENETTE	LEO HANGING GLOBE	PENDANT SEA GULL LIG	HTING SGL2186095  MANUFACTURER  MANUFACTURER  TBD N/A  TBD N/A  EMERALD INTERIOR ACRYLIC LATEX PAINT  MONOCHROME MODULAR CARPET TILE W/ GLASBAC BACKING  S SLIP MATCHED WOOD VENEER	DEL DIMEN  DIMEN  MODEL  BI  St  BI  St  DIMENSIONS  50cm X 50cm	ISIONS FII ISIONS FII WHITE FINIS ACK ainless Steel  SW7004 SNOWBOUND SW6193 PRIVILEGE GREEN I01853 OCEAN I01853 OCEAN	NISH BRIGH	HTNESS       TEMP         Im       3000 K         BY OWNER       Im         BY OWNER, EXISTING         BY OWNER, EXISTING         PROVIDE APPROPRIA         PROVIDE APPROPRIA         PROVIDE APPROPRIA	TE PAINT & F	INSTALL NOTES PRIMER FOR B PRIMER FOR B PRIMER FOR B	- ASE MATERIA ASE MATERIA	INSTALL NOTES
# L-1 EQUIPM # E-1 E-2 FINISH SCHEDUI # PAINT PNT-01 PNT-02 PNT-03 PNT-03 FLOOR CPT-01	LOCATION LOCATION ENTRY + PHONE BOOTHS ENT SCHEDULE LOCATION ENTRY KITCHENETTE LOCATION ENTRY + OPEN OFFICE PHONE BOOTHS KITCHENETTE PHONE BOOTHS	LEO HANGING GLOBE	PENDANT SEA GULL LIG	MANUFACTURER MANUFACTURER TBD N/A TBD N/A EMERALD INTERIOR ACRYLIC LATEX PAINT EMERALD INTERIOR ACRYLIC LATEX PAINT EMERALD INTERIOR ACRYLIC LATEX PAINT EMERALD INTERIOR ACRYLIC LATEX PAINT EMERALD INTERIOR ACRYLIC LATEX PAINT S S SLIP MATCHED WOOD VENEER PANEL BULLETIN BOARD TACKABLE	DEL DIMEN  DIMEN  MODEL  BI  St  BI  St  DIMENSIONS  50cm X 50cm	ISIONS FII ISIONS FII WHITE FINIS ACK ainless Steel  SW7004 SNOWBOUND SW6193 PRIVILEGE GREEN  I01853 OCEAN I01853 OCEAN WHITE MAPLE	NISH BRIGH 1000 H H SATIN SATIN SATIN SATIN	HTNESS       TEMP         Im       3000 K         Im       3000 K         BY OWNER       BY OWNER, EXISTING         BY OWNER, EXISTING       PROVIDE APPROPRIA         PROVIDE APPROPRIA       PROVIDE APPROPRIA         PROVIDE APPROPRIA       INSTALL PER MFR IN	TE PAINT & F TE PAINT & F STRUCTIONS	INSTALL NOTES PRIMER FOR B PRIMER FOR B PRIMER FOR B	- ASE MATERIA ASE MATERIA ASE MATERIA	INSTALL NOTES
# L-1 EQUIPM # E-1 E-2 SCHEDUI # PAINT PNT-01 PNT-02 PNT-03 FLOOR CPT-01 VALLS WD-01 LIN-01	LOCATION ENTRY + PHONE BOOTHS ENTRY LOCATION ENTRY KITCHENETTE LOCATION LOCATION ENTRY + OPEN OFFICE PHONE BOOTHS PHONE BOOTHS PHONE BOOTHS	LEO HANGING GLOBE	PENDANT SEA GULL LIG	HTING SGL2186095 MANUFACTURER  MANUFACTURER  TBD N/A  TBD N/A  EMERALD INTERIOR ACRYLIC LATEX PAINT  MONOCHROME MODULAR CARPET TILE W/ GLASBAC BACKING  S SLIP MATCHED WOOD VENEER PANEL	DEL DIMEN 12" DIAM MODEL BI St St St St St St St St St St	ISIONS FII ISIONS FII WHITE FINIS ACK ainless Steel  SW7004 SNOWBOUND SW6193 PRIVILEGE GREEN  I01853 OCEAN I01853 OCEAN WHITE MAPLE	NISH BRIGH 1000 H H SATIN SATIN SATIN SATIN	HTNESS       TEMP         Im       3000 K         Im       3000 K         BY OWNER       Im         BY OWNER, EXISTING         PROVIDE APPROPRIA         PROVIDE APPROPRIA         PROVIDE APPROPRIA         INSTALL PER MFR IN         INTALL WITH Z CLIPS	TE PAINT & F TE PAINT & F STRUCTIONS	INSTALL NOTES PRIMER FOR B PRIMER FOR B PRIMER FOR B	- ASE MATERIA ASE MATERIA ASE MATERIA	INSTALL NOTES
# L-1 EQUIPM # E-1 E-2 FINISH SCHEDUI PNT-01 PNT-02 PNT-03 PNT-03 FLOOR CPT-01 VALLS WD-01	LOCATION ENTRY + PHONE BOOTHS ENTRY LOCATION ENTRY KITCHENETTE LOCATION LOCATION ENTRY + OPEN OFFICE PHONE BOOTHS PHONE BOOTHS PHONE BOOTHS	LEO HANGING GLOBE	PENDANT SEA GULL LIG	MANUFACTURER MANUFACTURER TBD N/A TBD N/A EMERALD INTERIOR ACRYLIC LATEX PAINT EMERALD INTERIOR ACRYLIC LATEX PAINT EMERALD INTERIOR ACRYLIC LATEX PAINT EMERALD INTERIOR ACRYLIC LATEX PAINT EMERALD INTERIOR ACRYLIC LATEX PAINT S S SLIP MATCHED WOOD VENEER PANEL BULLETIN BOARD TACKABLE	DEL DIMEN 12" DIAM MODEL BI St St St St St St St St St St	ISIONS FII UWHITE WHITE ACK ainless Steel SW7004 SNOWBOUND SW6193 PRIVILEGE GREEN SW6193 PRIVILEGE GREEN I 101853 OCEAN I WHITE MAPLE NUTMEG SPICE	NISH BRIGH 1000 H H SATIN SATIN SATIN SATIN	HTNESS       TEMP         Im       3000 K         Im       3000 K         BY OWNER       Im         BY OWNER, EXISTING         PROVIDE APPROPRIA         PROVIDE APPROPRIA         PROVIDE APPROPRIA         INSTALL PER MFR IN         INTALL WITH Z CLIPS	TE PAINT & F TE PAINT & F STRUCTIONS	INSTALL NOTES PRIMER FOR B PRIMER FOR B PRIMER FOR B	- ASE MATERIA ASE MATERIA ASE MATERIA	INSTALL NOTES

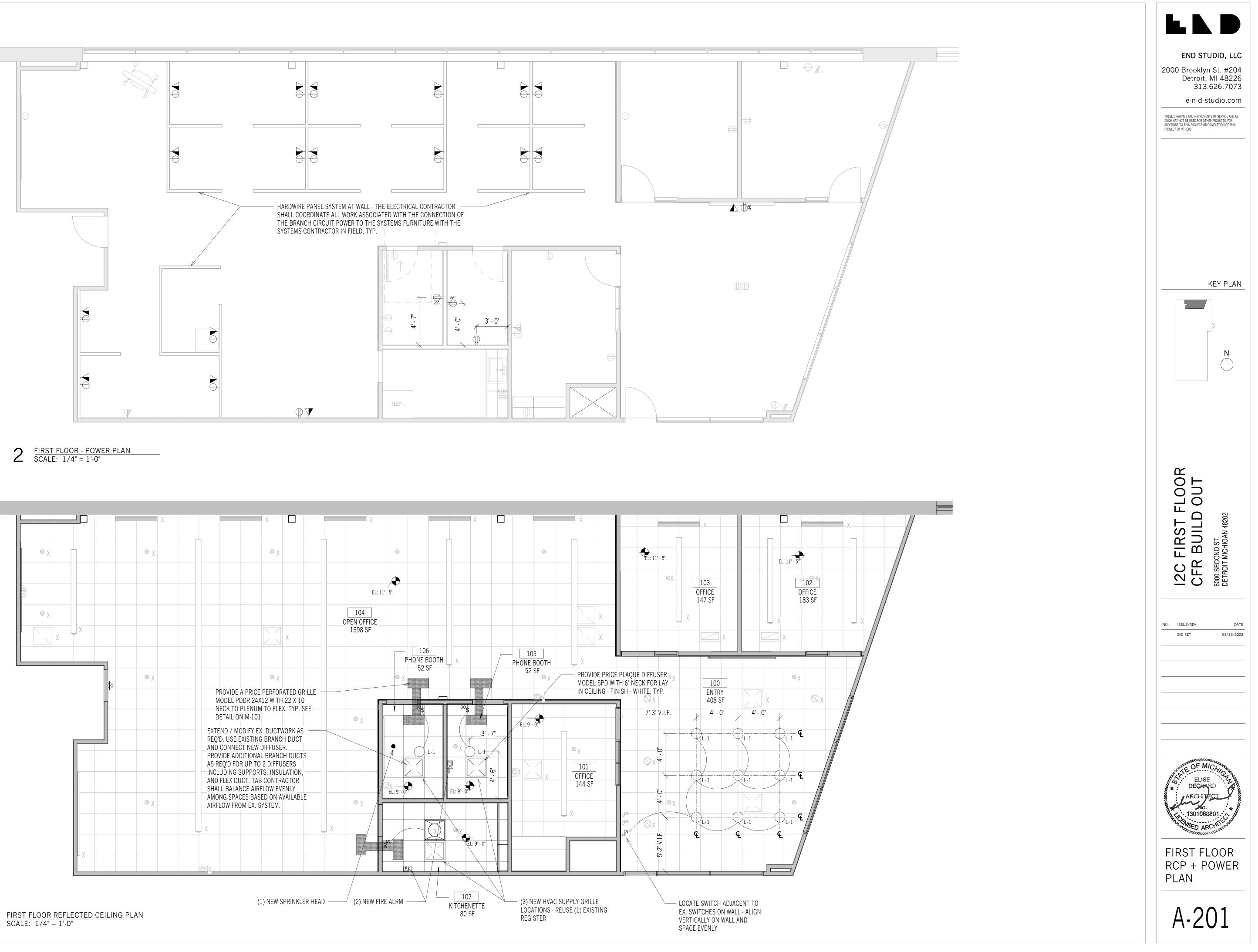


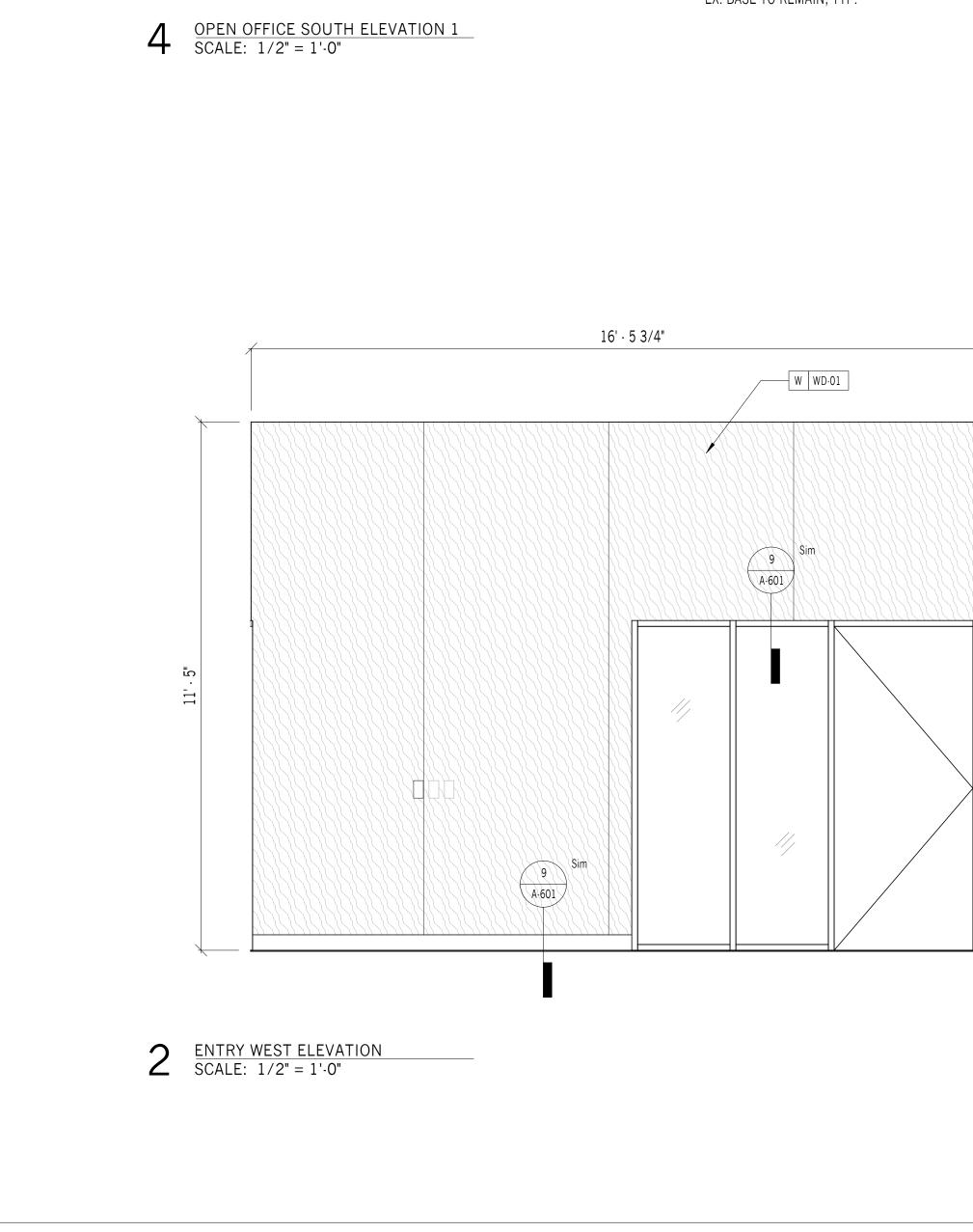


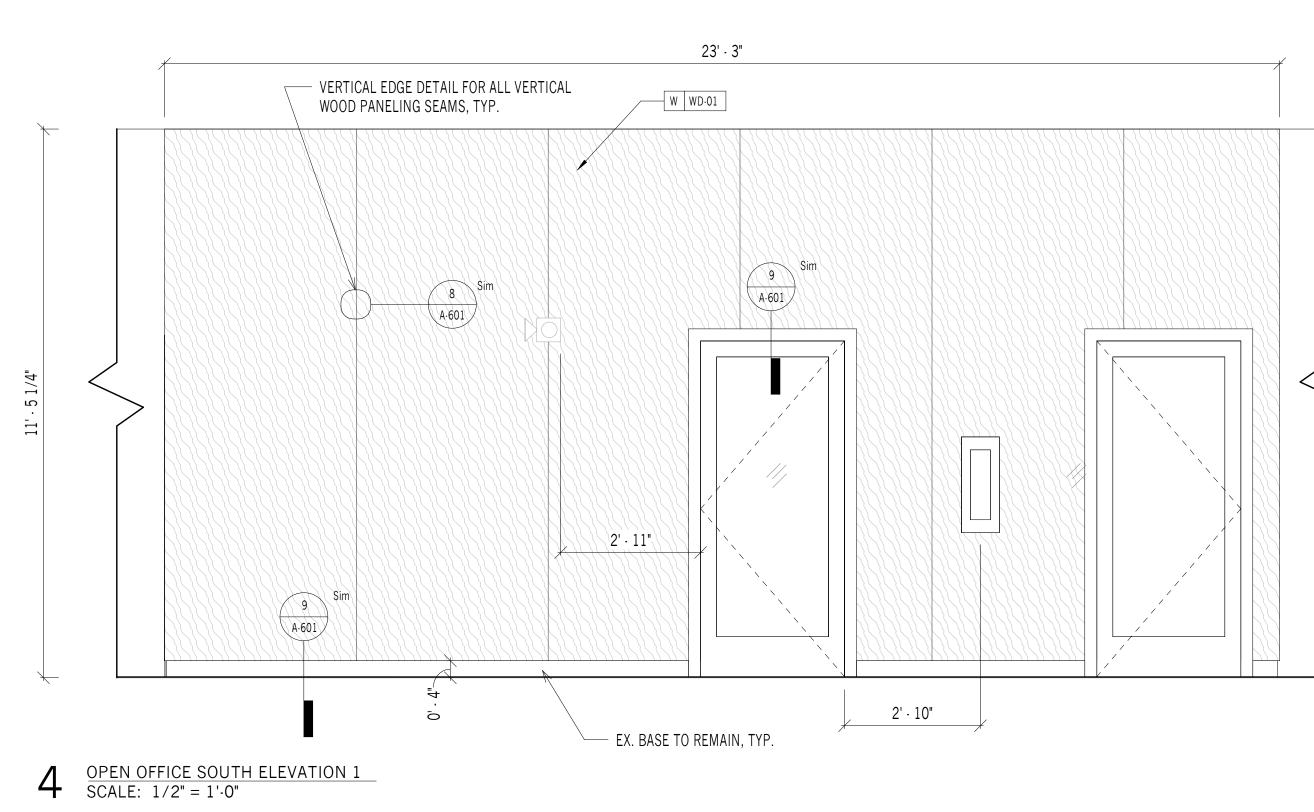


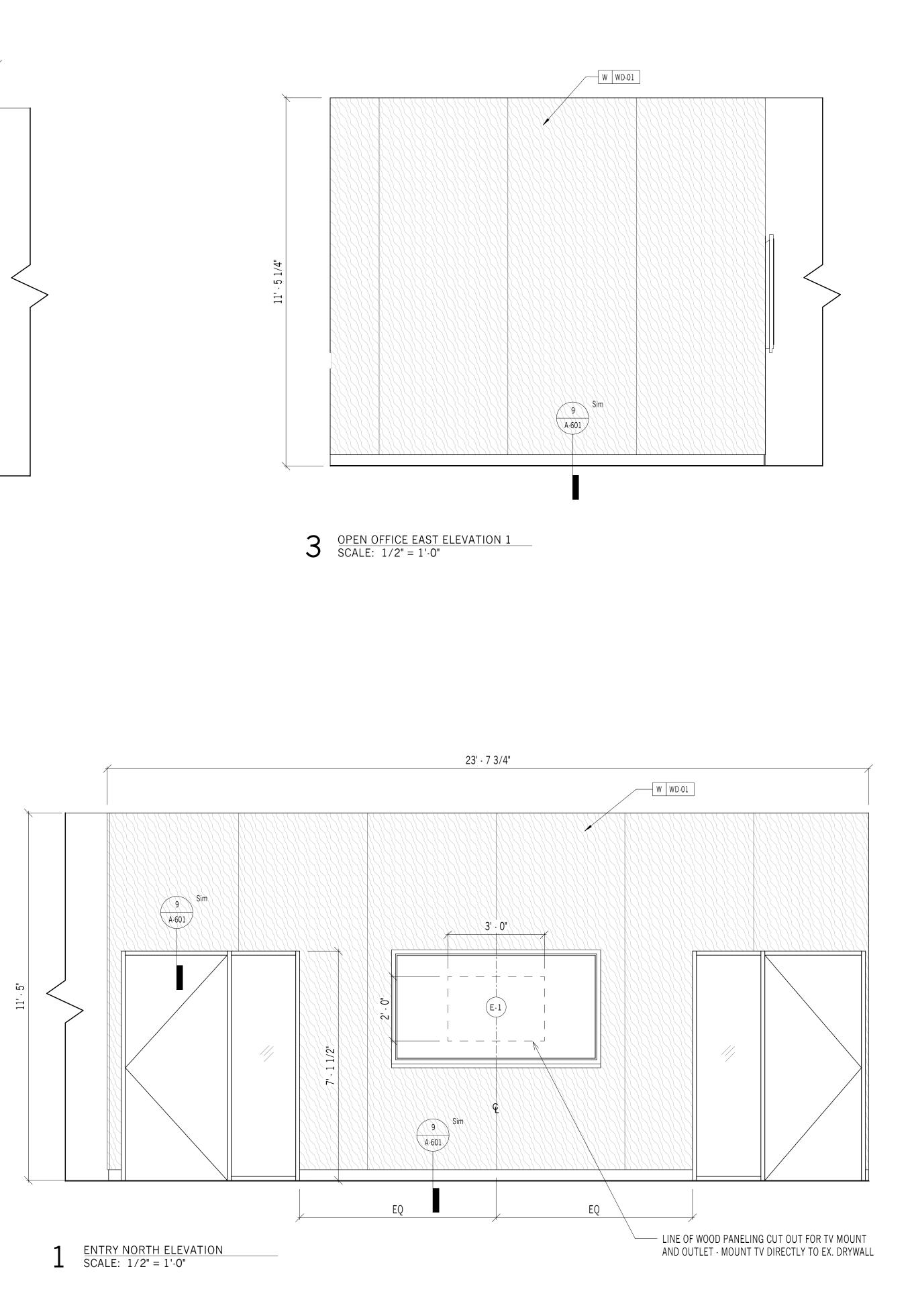
## $\frac{\text{FIRST FLOOR REFLECTED CEILING PLAN}{\text{SCALE: } 1/4" = 1' \cdot 0"}$

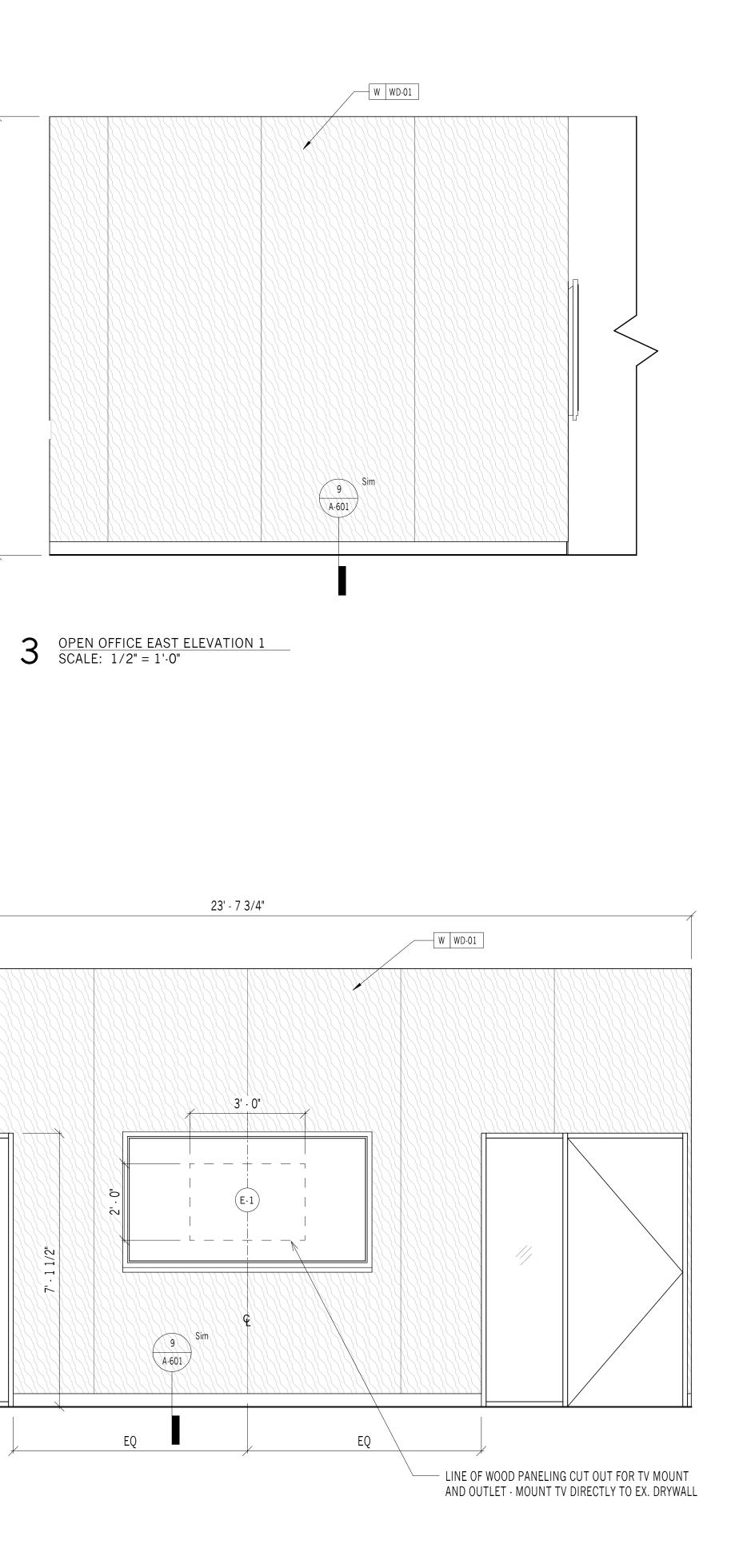


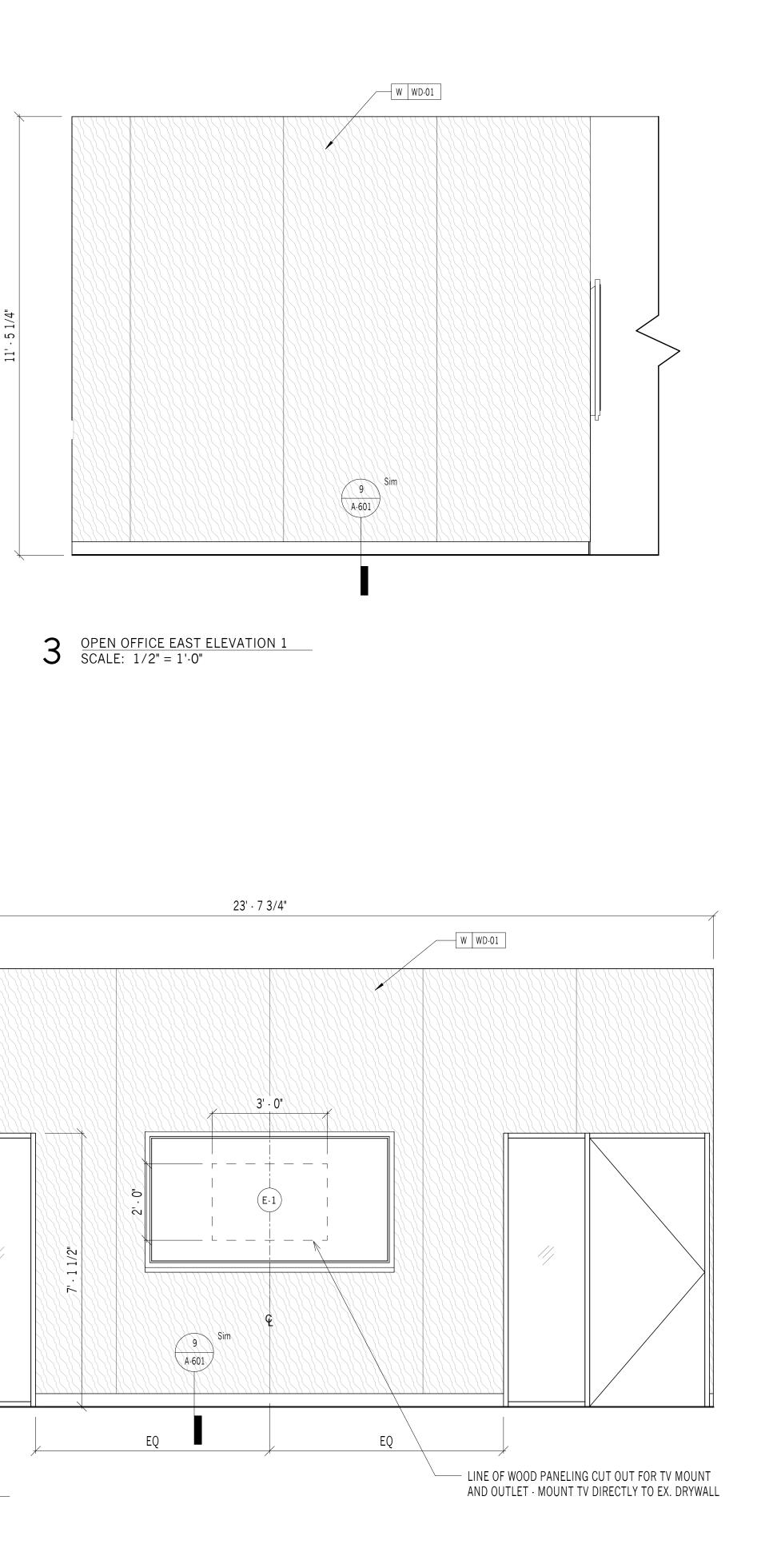


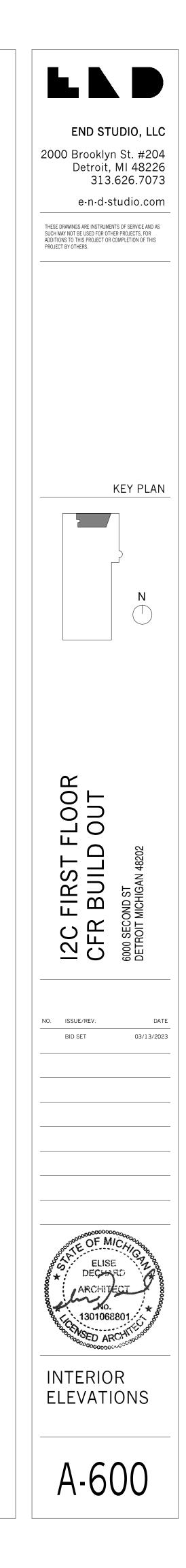


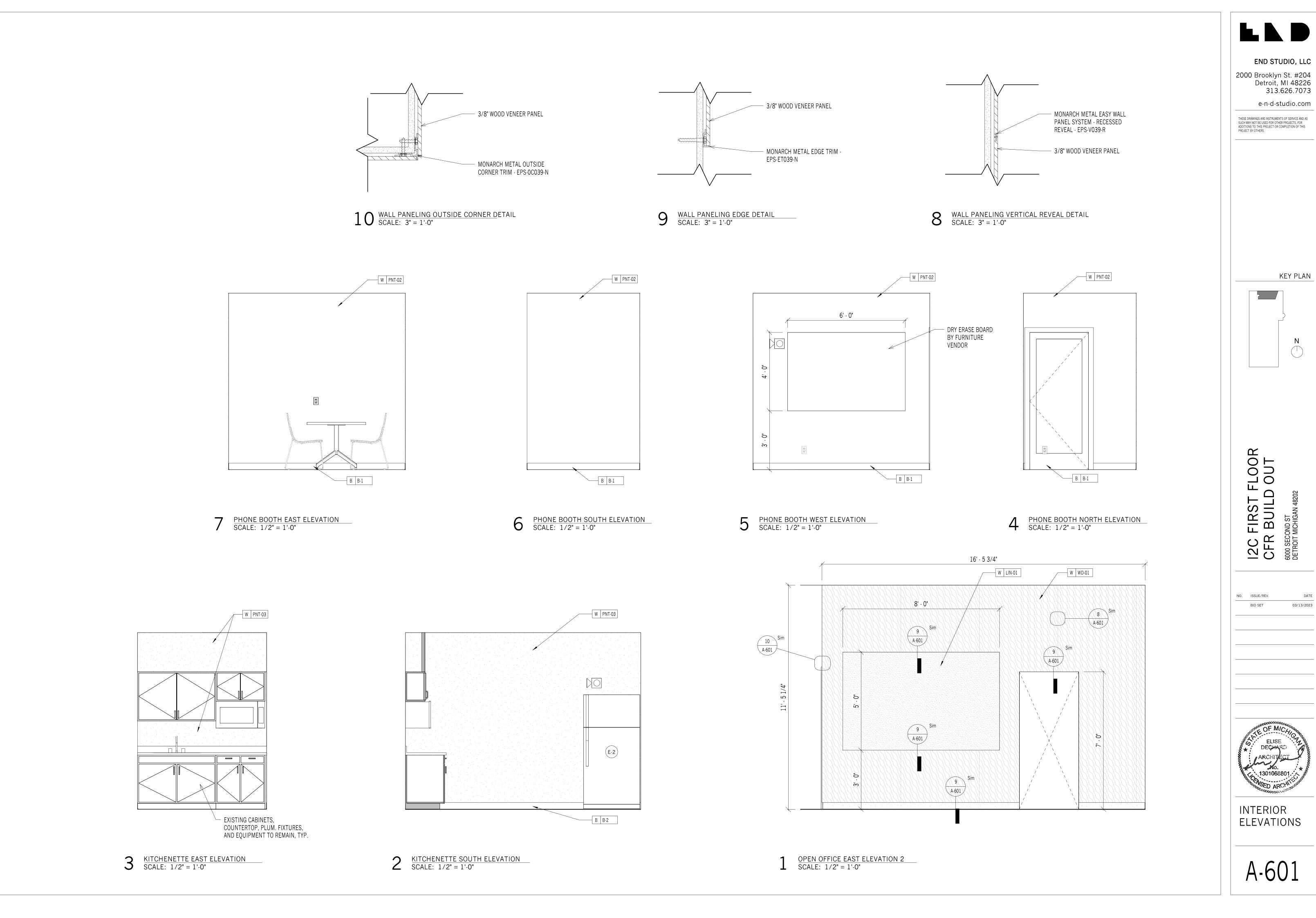


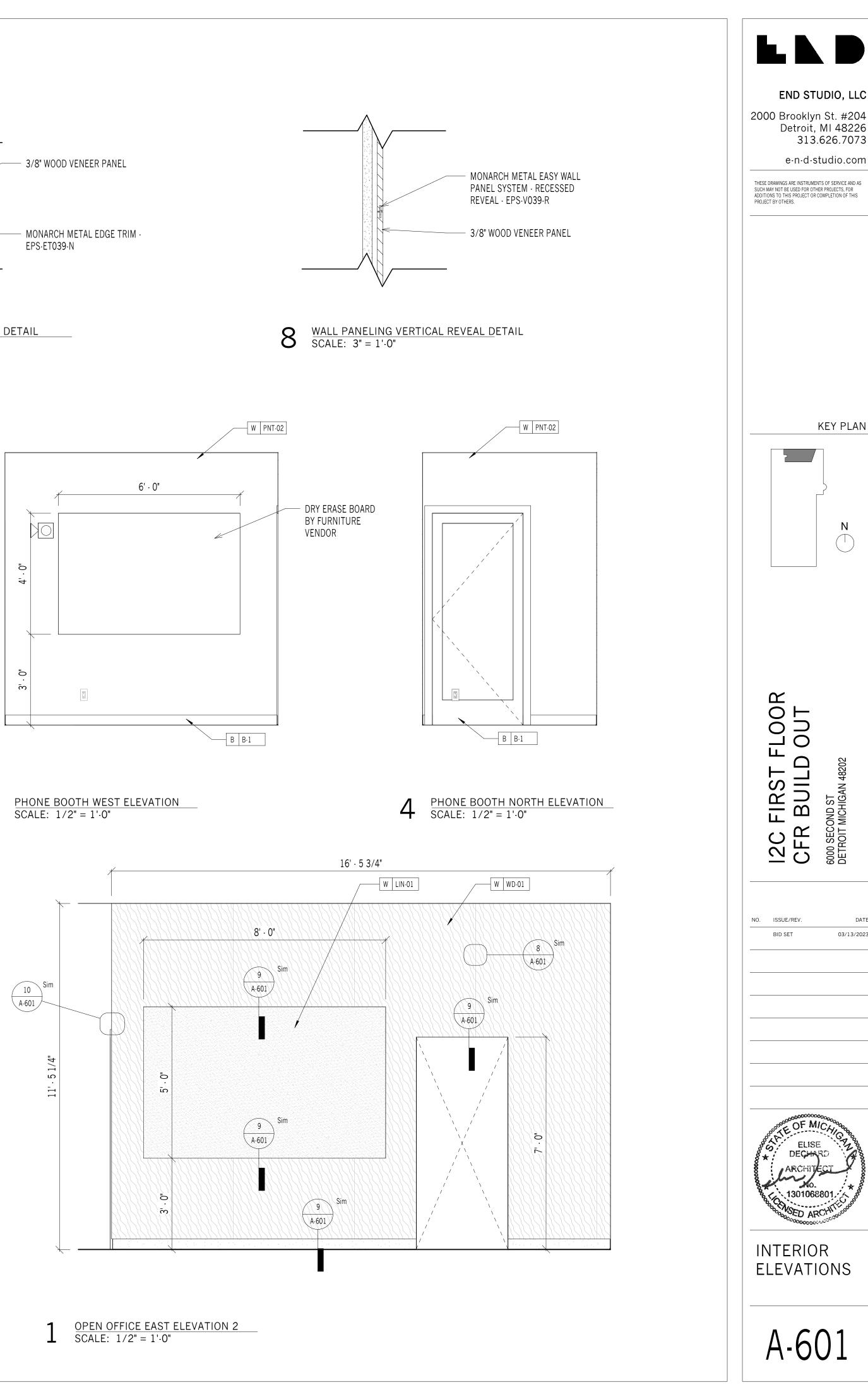










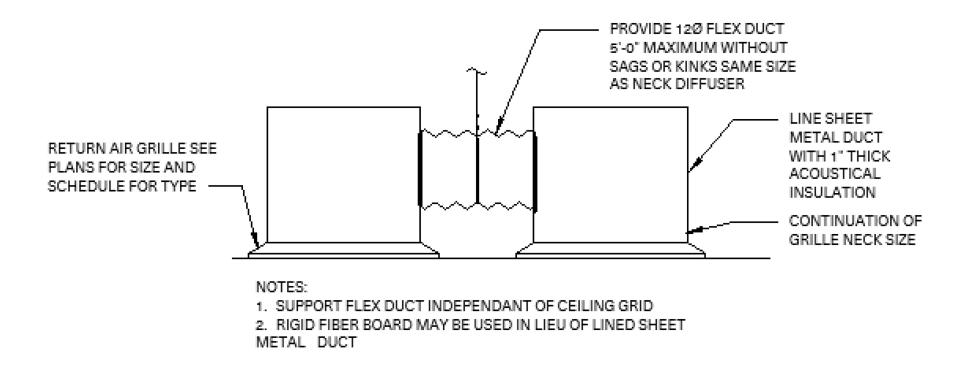


											-																							
		Project Name	I2C FIRST FLOOR C	FR BUILD OUT					Duct Leakage/ Future Capacity																									
		Project Number	212-355739						Does System have Economizer?	Yes																								
GreenP	Path Design	Engineer Initials	KBS						Is the System 100% Outside Air?	No																								
		Date	3/14/2023																															
		System Number	NA							Code Ventil	ation Rates																							
	10	Zone li	nformation			Load I	nformation		Outside Air Exhaust Air						Space Conditions Transfer							People		Outside Airflow										
Room Number	Zone	Room Name	Square Footage	Ceiling Height	Space Volume	e Airflow	Load Space A linimum Chang ccupied Rate Airflow (Supply CFM Exhaus	e Air Change or Rate	Occupancy Category	People OA Rate CFM/person Rp	Area OA Rate CFM/sqft Ra	Occupant Density people/ Per 1000 sqft	ople R	chaust Rate Exhaust M/sqft	Co lu Water Close n1 Urinals	f Air ts/ Transfe ts/ (Y or Bl	eneu Estavatada	Recirculation Air Handling System - FPB (Y or Blank)	CO2 Sensor (Y or Blank)	Constant Volume (Y or Blank)	Col u Aiflow n2 CFM	Space Pressurization Neutral, Negative or Positive	Col General u Exhaust within m Space Airflow n3 CFM	Col People um Require n4 by Code	d People oVerride	People	Col Air Distribution u Effectiveness m Ez n5 (Default-0.8)	OA People OA S Rp * Pz Ra <sup>†</sup>	q. Ft. * Az Breathing Zone Outdoor Airflow Vbz	r Outdoor Airflow	Breathing Zone OA with CO2 Sensor Voz	h h based on ACHR	Minimum Zone Primary Air at Full Occupancy Vpz	Outsi e Fract III Mini z S Z
105	_				100					-	0.05					_										-					4	4		<u> </u>
105		PHONE BOOTH	52	9	468	50	50	_	Conference/meeting	5	0.06	50										neutral		3	-	3	1	13 3	3 16	16	4	4	50	0.
106		PHONE BOOTH	52	9	468	50	50	_	Conference/meeting	5	0.06	50										neutral		3		3	1	13 3	3 16	16	4	4	50	0.
107	_	KITCHENETTE	80	9	720	100	100		Break rooms	5	0.06	25				_						neutral		2	-	2	1	10 5	5 15	15	4	4	100	0.
	_															-														4	4	4	4	4—
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			tal 184		1656	200	200																	7		7		26	1 47	47		4	200	
		Tot	tal 184		1656	200	200															1				/		36 1	1 47	47	4		200	
			Diver	sified System Load	Airflow																			Diver	sified Total									

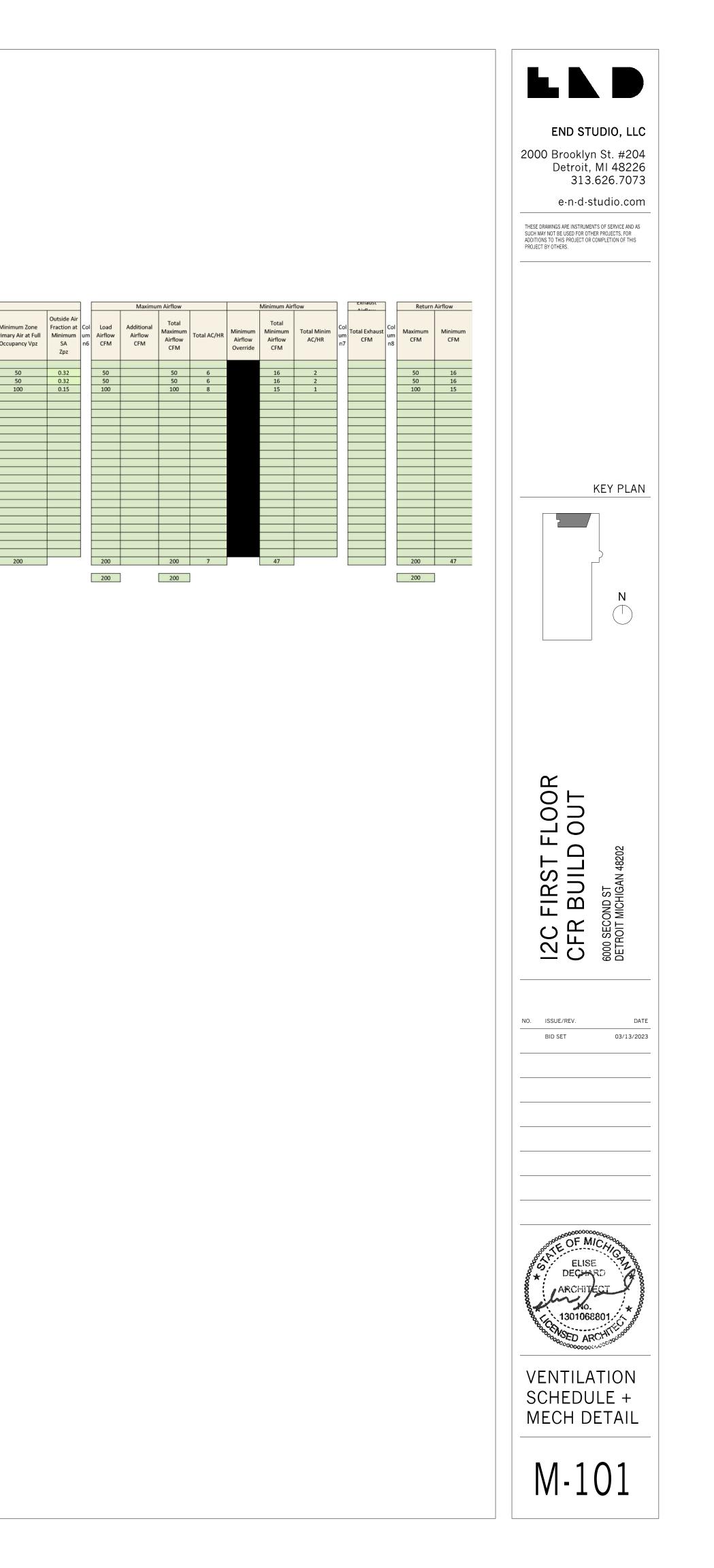
	ASHRAE 62.1 System Results					
System Ve	ntilation Efficiency, Ev	0.91				
	Airflow, CFM	200				
Max	Outside Airflow, CFM	52				
	Outside Airflow Fraction, %	26%				
	Airflow, CFM	52				
Min	Outside Airflow, CFM	52				
	Outside Airflow Fraction, %	100%				
Occupant	Diversity	100%				
System Pri	imary Airflow, Vps	200				
System Ur	corrected Outdoor Airflow, Vou	47				
Average O	utdoor Air Fraction, Xs	0.24				
Outdoor Air Intake Airflow (multi-zone), Vot 52						
Outdoor A	Outdoor Air Intake Airflow (100% OA), Vot 47					

		Results	
		Airflow, CFM	200
	Max	Outside Airflow, CFM	52
Cumplu		Outside Airflow Fraction, %	26%
Supply		Airflow, CFM	52
	Min	Outside Airflow, CFM	52
		Outside Airflow Fraction, %	100%
Return	Max	Airflow, CFM	200
Return	Min	Airflow, CFM	47
	Exhaust A	irflow, CFM	
	Max	Pressurization	52
System	Min	Pressurization	52
	Minimum	/Maximum Airflow Percentage	26%
	Outside A		

Desults



1 TRANSFER RETURN AIR GRILLE DETAIL SCALE: NOT TO SCALE



Outside Air

100

200

200

 50
 0.32

 50
 0.32

 100
 0.15

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	LIGHTING SYMBOL LEGEND
XXX	LIGHT FIXTURE TYPE, REFER TO LIGHT FIXTURE SCHEDULE
	SURFACE OR PENDANT LIGHT FIXTURE, CHEVRON INDICATED WALL WASH AIMING, SHAD EMERGENCY EGRESS LIGHT FIXTURE
$\bigcirc$ $\bigcirc$ $\bigcirc$	RECESSED LIGHT FIXTURE, CHEVRON INDICATED WALL WASH AIMING, HALF-SHADING IN EGRESS LIGHT FIXTURE
	SURFACE OR PENDANT LIGHT FIXTURE, HALF-SHADING INDICATES EMERGENCY EGRESS
	RECESSED LIGHT FIXTURE, HALF-SHADING INDICATES EMERGENCY EGRESS LIGHT FIXTU
	RECESSED ARCHITECTURAL LIGHT FIXTURE, HALF-SHADING INDICATES EMERGENCY EG
	SURFACE OR CHAIN HUNG STRIP LIGHT FIXTURE, HALF-SHADING INDICATES EMERGENC
$\overline{\mathbf{Q}}$	WALL MOUNTED LIGHT FIXTURE, HALF-SHADING INDICATES EMERGENCY EGRESS LIGHT
	WALL MOUNTED LIGHT FIXTURE, HALF-SHADING INDICATES EMERGENCY EGRESS LIGHT
 	TRACK MOUNTED LIGHT FIXTURE
 1€1	EXIT SIGN, PROVIDE ARROWS/CHEVRONS AS INDICATED ON PLANS, SHADED AREA INDIC SYMBOL INDICATES WALL MOUNTED, LIGHT HEADS INDICATE COMBINATION EXIT/BATTE EMERGENCY LIGHTING UNIT
	BATTERY POWERED EMERGENCY LIGHTING UNIT, LIGHT HEADS ON SIDES OF UNIT INDIC
S <sub>Xa</sub>	SINGLE POLE SWITCH - 20A, 125/277V UON, -'a' INDICATES WHICH FIXTURES/DEVICES ARE CONTROLLED VIA SWITCH - <u>'X' DENOTES TYPE:</u> BLANK - SINGLE POLE D - DIMMER O - WALL BOX OCCUPANCY SENSOR - PASSIVE INFRARED V - WALL BOX VACANCY SENSOR - PASSIVE INFRARED
$ \begin{array}{c} \bigcirc & & & & & & \\ \bigcirc & & & & & \\ \bigcirc & & & &$	OCCUPANCY/VACANCY SENSOR, FOOT ON SYMBOL INDICATES WALL MOUNTED, -'a' INDICATES WHICH FIXTURES ARE CONTROLLED VIA SENSOR - <u>'X' DENOTES TYPE:</u> A - 180° DUAL TECHNOLOGY OCCUPANCY SENSOR B - 360° DUAL TECHNOLOGY OCCUPANCY SENSOR C - 180° PASSIVE INFRARED OCCUPANCY SENSOR D - 360° ULTRASONIC OCCUPANCY SENSOR
С	LIGHTING CONTACTOR, SIZE AS INDICATED ON DRAWINGS/DETAIL
TV DAT REQUI	OUTLET JUNCTION BOX WITH 1-1/4"C TO NEAREST TELECOM CABLE TRAY UON. 2 GANG BOX / 1 GANG PLASTER RING TA OUTLET WITH 1"C STUBBED ABOVE ACCESSIBLE CEILING UON. 2 GANG BOX / 1 GANG PLASTER RING, WITH CABLIN REMENTS WITH WSU C&IT S FOR CABLING REQUIREMENTS M ARM STROBE
	ELECTRICAL DEMOLITION NOTES
WALLS AND CI UTILIZED BEYO 2. WHERE AN EL DISCONNECTE CONDUCTORS 3. DEMOLITION: A OF ALL EXISTING 4. EXISTING CIRC CONDUIT RUN	TOR SHALL REMOVE THE EXISTING ELECTRICAL WORK NECESSARY TO PROVIDE THE INTER ELINGS, AND SHALL RECONNECT ALL CIRCUITS INTERRUPTED BY THIS DEMOLITION WHERE OND THE DEMOLITION, WHETHER SUCH CIRCUITS ARE INDICATED OR NOT. ECTRICAL DEVICE THAT IS TO BE REMOVED IS AN "END OF LINE" OR A SINGLE DEVICE, THE O ED AT THE NEXT UPSTREAM DEVICE TO REMAIN OR AT ITS RELATED PANELBOARD. ALL NON INCLUDING POWER AND TELECOMMUNICATION CABLES SHALL BE REMOVED. ACCURACY OF ORIGINAL PLANS HAS NOT BEEN VERIFIED. THE CONTRACTORS SHALL MAINT NG FIXTURES AND DEVICES THAT ARE TO REMAIN. CUITS, IF INDICATED, ARE DIAGRAMMATIC ONLY. VERIFY EXACT CONDUIT LOCATION AND RO S AND NUMBER OF CONDUCTORS. AND PROVIDE ADDITIONAL CONDUITS / CONDUCTORS AS THE DESIGN INTENT.
5. CIRCUIT BREA AIC RATING. P	KERS ADDED TO THE EXISTING PANELBOARDS SHALL MATCH THE EXISTING BREAKER TYPE ROVIDE NEW TYPE WRITTEN, UPDATED DIRECTORIES IN THE EXISTING PANELBOARDS TO R
UNLESS OTHE 7. EXISTING SYS ENSURE THEY	S TO SYSTEMS SHALL MATCH THE MANUFACTURER'S EXISTING SYSTEMS PRESENTLY INSTA RWISE NOTED. TEMS SHALL REMAIN UNLESS NOTED FOR REMOVAL OR RELOCATION. ALL SYSTEMS SHALL ' ARE IN PROPER WORKING ORDER BEFORE ANY DEMOLITION IS STARTED. SYSTEMS NOT F
WORK. ALL SY FINISHED AND B. DEMOLITION, N CONDITIONS. S DRAWING. CA EXTENT OF DE	Y WORKING CONDITION SHALL BE REPORTED TO THE OWNER IN WRITING PRIOR TO THE ST STEMS SHALL BE CHECKED TO ENSURE THAT THEY ARE WORKING PROPERLY AFTER THE I AFTER THE NEW ELECTRICAL INSTALLATION IS COMPLETE. WHERE INDICATED ON PLAN, IS BASED ON EXISTING DRAWINGS AND LIMITED FIELD INVESTI SELECT DEMOLITION MAY BE REQUIRED FOR NEW CONSTRUCTION AND MAY NOT BE DELINI REFULLY COORDINATE DEMOLITION WITH NEW CONSTRUCTION PLANS OF ALL DISCIPLINES MOLITION. VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDIT THE EXISTING CONDIC
9. EXAMINE THE ALL INCIDENTA	THE EXTENT OF DEMOLITION WORK. DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTH AL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITIC THER OR NOT SPECIFICALLY INDICATED.
10. QUANTITY AND 11. ITEMS SHOWN DEVICES, CON OTHERWISE, S	D LOCATION OF EXISTING DEVICES SHOWN ON PLANS ARE APPROXIMATE. FIELD VERIFY DE I HEAVY LINE WEIGHT DASHED LINES, HATCHED AND/OR NOTED SHALL BE DEMOLISHED ANI IDUIT, AND WIRING SHALL BE REMOVED BACK TO THE NEAREST ACTIVE JUNCTION BOX OR S SEE DEMOLITION LEGEND FOR ADDITIONAL INFORMATION.
12. ALL EXISTING EXISTING ITEM OF ITEMS TO F	EQUIPMENT MAY NOT BE INDICATED. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDIT IS NOT SHOWN HATCHED SHALL REMAIN IN OPERATION. REVISE THE EXISTING CIRCUITRY REMAIN.
13. MAINTAIN ELE RENOVATION.	CTRICAL SERVICE TO ALL LIGHTING FIXTURES, DEVICES, AND EQUIPMENT THAT ARE OUTSIE EXTEND CONDUIT AND WIRE AS REQUIRED WHERE DEMOLITION WORK AFFECTS ELECTRIC I LOADS THAT ARE TO REMAIN.
14. RECYCLE OR I DISPOSED OF TESTING, PRO	DISPOSE OF ALL MATERIALS OFF SITE AND INCLUDE ALL ASSOCIATED COSTS IN BID. ALL MA IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, INCLUDING LEED F PER DISPOSAL AND/OR RECYCLING OF FLUORESCENT LAMPS.
"SPARE" AND F 16. VERIFY ALL UN 17. OFFER OWNEI 18. PROVIDE COD	D TAG ALL CIRCUITS AFFECTED BY THIS ALTERATION AT BOTH ENDS. MARK ALL UNUSED CIP PLACE IN THE "OFF" POSITION. IDERGROUND AND IN SLAB UTILITY LOCATIONS PRIOR TO SAW-CUTTING OR PENETRATING RS REPRESENTATIVE FIRST RIGHT OF REFUSAL OF ALL EQUIPMENT REMOVED FROM SPACE E-COMPLIANT SUPPORT TO EXISTING-TO-REMAIN UNSUPPORTED CONDUITS AND BOXES W
	RE-ROUTE BRANCH CIRCUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITA ENT AND SYSTEMS IN CEILING SPACES.

SYMBOLS USED)       POWER STMBOL LEGEND       SYMBOL         P P SIMPLEX RECEPTACLE - NEMA 5-20R, HORIZONTAL LINE INDICATES MOUNTED AFC UON, SHADING INDICATES CI       TO GENERATOR/UPS POWER         IHADING INDICATES       P P P       DUPLEX RECEPTACLE - NEMA 5-20R, HORIZONTAL LINE INDICATES MOUNTED AFC UON, SHADING INDICATES CIF         G INDICATES       P P P       DUPLEX RECEPTACLE - NEMA 5-20R, GROUND FAULT INTERRUPTING, HORIZONTAL LINE INDICATES MOUNTED AFC UON, SHADING INDICATES CIRCUITED TO GENERATOR/UPS POWER         RESS LIGHT FIXTURE       P P P       DUPLEX RECEPTACLE - NEMA 5-20R, GROUND FAULT INTERRUPTING, HORIZONTAL LINE INDICATES MOUNTED AFC UON, SHADING INDICATES CIRCUITED TO GENERATOR/UPS POWER         RESS LIGHT FIXTURE       P P P       DUPLEX RECEPTACLE - NEMA 5-20R, TAMPER RESISTANT, HORIZONTAL LINE INDICATES MOUNTED AFC UON, SHADING INDICATES CIRCUITED TO GENERATOR/UPS POWER         Y EGRESS LIGHT FIXTURE       P P P       SPLIT-WIRED DUPLEX RECEPTACLE - NEMA 5-20R, LAMPER RESISTANT, HORIZONTAL LINE INDICATES MOUNTED AFC UON, SHADING INDICATES CIRCUITED TO GENERATOR/UPS POWER         Y EGRESS LIGHT FIXTURE       P P P       COMBINATION DUPLEX RECEPTACLE - NEMA 5-20R, LORIZONTAL LINE INDICATES MOUNTED AFC UON, SHADING INDICATES CIRCUITED TO GENERATOR/UPS POWER         GHT FIXTURE       Q UADEX RECEPTACLE - NEMA 5-20R, HORIZONTAL LINE INDICATES MOUNTED AFC UON, SHADING INDICATES CIRCUITED TO GENERATOR/UPS POWER         GHT FIXTURE       Q UADEX RECEPTACLE - NEMA 5-20R, HORIZONTAL LINE INDICATES MOUNTED AFC UON, SHADING INDICATES CIRCUITED TO GENERATOR/UPS POWER      <								
					POWER SYMBOL LEGEND	(NOT ALL SYMBOLS USEE		
		$\varphi \oplus \phi$				NDICATES CIRCUITEE		
Ses Lohd Hartsee  Ses Lohd Ha	ADING INDICATES		DUPLEX RE TO GENERA			DICATES CIRCUITED		
Sel Len Harviel Sel Len Harvi	INDICATES EMERGENCY	□		DUPLEX RECEPTACLE - NEMA 5-20R, GROUND FAULT INTERRUPTING, HORIZONTAL LINE INDICATES MOUNTED AFC UO				
	SS LIGHT FIXTURE		DUPLEX RE	DUPLEX RECEPTACLE - NEMA 5-20R, TAMPER RESISTANT, HORIZONTAL LINE INDICATES MOUNTED AFC UON, SHADING				
			SPLIT-WIRE	SPLIT-WIRED DUPLEX RECEPTACLE - NEMA 5-20R, HORIZONTAL LINE INDICATES MOUNTED AFC UON, SHADING				
			COMBINATIO	COMBINATION DUPLEX RECEPTACLE (NEMA 5-20R)/USB (TYPE A, 2.0 ), TWO CHARGING USB PORTS, HORIZONTAL LINE				
				K RECEPT	TACLE - NEMA 5-20R, HORIZONTAL LINE INDICATES MOUNTED AFC UON, SHADING			
In TRUDE In TRUDE In TRUDE In CRUE ALL <p< td=""><td></td><td></td><td>- CIRCUITED STACKED D</td><td></td><td></td><td>LLOW SAME</td></p<>			- CIRCUITED STACKED D			LLOW SAME		
		0 Q I	JUNCTION E	BOX, LEC	3 INDICATES WALL/EQUIPMENT MOUNTING IS REQUIRED, SQUARE INDICATES FL	OOR MOUNTED		
DENTER FOR CARDING ON DENTED DENTER FOR CARDING DENTED DENTER FOR CARDING DENTED DENTER FOR CARDING DENTED DENTER FOR CARDING DENTED DENTED DENTER FOR CARDING DENTED DENTER FOR CARDING DENTED DENTED DENTER FOR CARDING DENTER FOR CAR						240V LINE TO LINE.		
INCLAINER CHEMICAL CONTROL AND			LINE. INSTA	SURFACE MOUNTED PANELBOARD. SOLID FILL INDICATES 480V LINE TO LINE, NO FILL INDICATES 208V OR 240V LINE TO LINE. INSTALL DOOR HINGE ON THE SIDE SHOWN ON SYMBOL. DASHED LINE INDICATES NEC WORKING SPACE. HALF				
CONDUCT UNING UP CO		<u> </u>	i LINE TO LIN	NE. INSTA	ALL DOOR HINGE ON THE SIDE SHOWN ON SYMBOL. DASHED LINE INDICATES NE			
CONDUCT TURNING DOWN     CONDUCT TURNING DOWN     Carpital     MOLATES CIRCUITS 10 PAREL, RPT INDICATES PAREL DESIGNATION AND 1.3.5 INDICATES PORCH POSTDON     SUBJECT SUBJECT TO PAREL, RPT INDICATES SUBJECT TO PAREL, RPT INDICATES ONDUCTORS, 2 INDICATES PORCH POSTDON     CONDUCTORS, 2 INDICATES CONDUCTORS, 2 IN		FACP	FIRE ALARM	M CONTF	ROL PANEL (FURNISHED BY OTHERS)			
		c		URNING	UP			
				URNING	DOWN			
		L <sub>RP1-1,3,5</sub>	INDICATES		'S TO PANEL, 'RP1' INDICATES PANEL DESIGNATION AND '1,3,5' INDICATED POLE P	'OSITION(S)		
CONTRACTORY     CONTRACTO		ex#Y, X#YG ,Z		ES QUAN	ITITY AND 'Y' INDICATES SIZE OF CONDUCTORS, Z INDICATES CONDUIT SIZE			
More and a second and a se		(RP1)	PANEL TAG	G, i.e. CIR	CUITS WITHIN AREA WHERE TAG IS LOCATED ON PLAN ARE CIRCUITED TO PANE	L 'RP1' UON		
Image: State Control of the Control			DESIGNATIO MECHANICA	ION ON B CAL, KTCH	BOTTOM INDICATES ASSOCIATED EQUIPMENT CONNECTION SCHEDULE AS FOLLO H = KITCHEN, PUMP = PUMP, HEAT = HEATER, FAN = FAN. REFER TO ELECTRICAL	OWS: MECH =		
Instrument       Tag       SYMBOLOGY       DESCRIPTION         Instrument       EXISTING DEVICE TO REMAIN.       EXISTING DEVICE TO REMAIN.         Instrument       EXISTING DEVICE TO BE DEMOLISHED.       EXISTING DEVICE TO BE RELIGATED.         Instrument       EXISTING DEVICE TO BE RELIGATED.       EXISTING DEVICE TO BE RELIGATED.         Instrument       EXISTING DEVICE TO BE RELIGATED.       EXISTING DEVICE TO BE RELIGATED.         Instrument       EXISTING DEVICE TO BE RELIGATED.       EXISTING DEVICE TO BE RELIGATED.         Instrument       EXISTING DEVICE TO BE RELIGATED.       EXISTING DEVICE TO BE RELIGATED.         Instrument       EXISTING DEVICE TO BE RELIGATED.       EXISTING DEVICE TO BE RELIGATED.         Instrument       EXISTING DEVICE TO BE RELIGATED.       EXISTING DEVICE TO BE RELIGATED.         Instrument       EXISTING DEVICE TO BE RELIGATED.       EXISTING DEVICE TO BE RELIGATED.         Instrument       EXISTING DEVICE TO BE RELIGATED.       EXISTING DEVICE TO BE RELIGATED.         Instrument       EXISTING DEVICE TO BE RELIGATED.       EXISTING DEVICE TO BE RELIGATED.         Instrument       EXISTING DEVICE TO ACCOMPANY BUILT ON THEW DEVICE TO SUBJED.       EXISTING DEVICE TO RESERVICE TO RESERVICE DEVICE TO RESERVICE DEVICE TO RESERVICE DEVICE TO ACCOMPANY.         INTENDED AREADY DEVICITION TO AND THE DEVICE TO THE DEVICE TO AREADY DEVICED.      EXISTING DEVICE TO ACCOMPANY			I					
INDED ARANCEMENT OF REINGE CORDINATE CARENG       EXISTING DEVICE TO BE RELOCATED.         ILLE				-				
Image: Syndrol Subservice       Image: Syndrol Subservice         Image: Syndrol Subservice       Image: Syndrol Subservice       Image: Syndrol Subservice         Image: Syndrol Subservice       Image: Syndrol Subservice       Image: Syndrol Subservice         Image: Syndrol Subservice       Image: Syndrol Subservice       Image: Syndrol Subservice         Image: Syndrol Subservice       Image: Syndrol Subservice       Image: Syndrol Subservice         Image: Syndrol Subservice       Image: Syndrol Subservice       Image: Syndrol Subservice         Image: Syndrol Subservice       Image: Syndrol Subservice       Image: Syndrol Subservice         Image: Syndrol Subservice       Image: Syndrol Subservice       Image: Syndrol Subservice         Image: Syndrol Subservice       Image: Syndrol Subservice       Image: Syndrol Subservice         Image: Syndrol Subservice       Image: Syndrol Subservice       Image: Syndrol Subservice       Image: Syndrol Subservice         Image: Syndrol Subservice       Image: Syndrol Subservice       Image: Syndrol Subservice       Image: Syndrol Subservice       Image: Syndrol Subservice         Image: Syndrol Subservice       Image: Syndrol Subservice       Image: Syndrol Subservice       Image: Syndrol Subservice       Image: Syndrol Subservice       Image: Syndrol Subservice       Image: Syndrol Subservice       Image: Syndrol Subservice       Image: Syndrol Subservice       I								
LATER RINK, WITH USLIND.  LIND: COORDINATE CABLING  (EL)  (				EXIST	ING DEVICE TO BE DEMOLISHED.			
NIN: MITH CARLING UNDER COORDINATE CARLING UNDER COORDINATION OF DESTING UNDER COORDINATION UNDER CO		(ER)	[ <u>]]</u> =( <del>)</del>	EXIST	ING DEVICE TO BE RELOCATED.			
TENDED ARRANGEMENT OF		(EL)						
<ol> <li>PRIOR TO BID. THE CONTRACTOR SHALL VISIT SITE TO SURVEY EXISTING CONDITIONS AFFECTING WORK. INCLUDE NECES MATERIALS AND LABOR TO ACCOMPLISH THE ELECTRICAL WORK INCLUDIONS RELOCATION OF EXISTING EQUIPMENT TO A FOR HEW CONSTRUCTION. ANY CONFLICTS SHALL BE BROUGHT TO THE ARTENTICO OF THE ARCHITECTINGNINGS. DRAWINGS SHOWING RESOLVED PRIOR TO BID. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES.</li> <li>TENDED ARRANGEMENT OF RESOLVED PRIOR TO BID. WORK SHALL BE COORDINATE SUT DRALETING BRAWINGS. DRAWINGS ARE A PART OF A COMPLETE SET OF ARCHITECTURAL LONGHEERING DRAWINGS. DRAWINGS CHILING DOOR SWINGS, ELEVATIONS, CASEWORK, FINISHES, STUDUTURAL CONCRETE, FRAMING, DUCTWORK, AND PIPKS.</li> <li>ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH HITE NEC AND LOCORDINATION WITH DIMENSIONS, CEILING DOOR SWINSS, ELEVATIONS, CASEWORK, FINISHES, STUDUTURAL CONCRETE, FRAMING, DUCTWORK, AND PIPKS.</li> <li>ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH HITE NEC AND LOCORDINATION WITH DIMENSIONS, CEILING DOOR SWINSS, ELEVATIONS, CASEWORK, FINISHES, STUDUTURAL CONCRETE, FRAMING, DUCTWORK, AND PIPKS.</li> <li>ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH HITE NEC AND LOCORDING TAIN AND PAY FOR ALL NECESSARY PERMITS.</li> <li>ALL ELECTRICAL WORK SHALL DAVE (I) CONDUITS STUBEL DOORS EXPANSION JOINTS OR CONDUITS THAT FORSE SERVICES INCLUDING SET CONDUCTOR STATE OF ANY DATE PORT OR CONDUCT STUBBED DUT ABOVE ACCESSIBLE CELLING FOR FUTUR CIRCUTS.</li> <li>ALL FLUSH MOUTTED PANELES SHALL HAVE (I) "EMPTY CONDUCT STUBBED DUT ABOVE ACCESSIBLE CELLING FOR FUTUR CIRCUTS.</li> <li>VERNY LLG CATION OF ALL FLOOR OUTLETS WITH ARCHITECT PRIOR TO ROUGHIN.</li> <li>RECHTCR, AND PREVENCE MATHER AND AND AND ANY ONT BE ELECTRICAL NORMARY.</li> <li>RECHTCR, AND PREVENCE OT THE CONTINUE AND ANY ONT RECOMPACTURE SHALL BE PROVIDED WITH BLANK WALL PLATES STATE OT ANY DAVE DEMONTOR CONTRACTOR AND/OR EDUBATION STUDED.</li> <li>RECHTCR, AND PREVENCE OT THE CONTRACTOR AND AND AND AND ANY ONT R</li></ol>		(EN)						
MATERIALS AND LABOR TO ACCOMPLISH THE ELECTRICAL WORK, INCLUDING RELOCATION OF EXISTING EQUIPMENT TO A RESOLVED PRIOR TO BID. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES. 2. THESE DRAWINGS ARE A PART OF A COMPLETE SET OF ARCHITECTURAL CONCRETE, FRAMING, DUCTWEIS RESOLVED RING, RELOCATION OF EXISTING EQUIPMENT TO THE ATTENTION OF THE RECHTECTURAL WORK, AND PIPING. 2. THESE DRAWINGS ARE A PART OF A COMPLETE SET OF ARCHITECTURAL CONCRETE, FRAMING, DUCTWEIS SHOUND RESOLVED RING TO BLD. WORK SHALL BE DONE IN ACCORDANCE WITH THE NEC AND LOCAL ORDINATORS INCLUDING ALL RECOUNDERS CIRCUITS ARE 14. CONDUCTORS SHALL BE ONFLUCTIONAL INTAIN CIRCUIT CONTINUITY ROUTING OF EXISTING 6. ALL FLUSH MOUNTED PANELS SHALL HAVE (4) 1° EMPTY CONTINUES THE SET OF ARCHITECTURAL CONCRETE PRIOR TO ROUGH-IN 8. ALL WILL OUTETS ARE PARIABLE CONSTRUCTURAL CONCRETE PRIOR TO ALL DECK SIBLE CELLING FOR FUTUR CIRCUITS. 9. MONFLUCTIONAL INTAIN CIRCUIT CONTINUITY ROUTING OF EXISTING 6. ALL FLUSH MOUNTED PANELS SHALL HAVE (4) 1° EMPTY CONTINUES STUBBED OUT ABOVE ACCESSIBLE CELLING FOR FUTUR CIRCUITS. 9. MONTEPART 9. MANUFACTURER, AND 9. REFLECT CHANGES MADE 9. MAULTAKING BRANCH CIRCUINTS ARE PROHIBITED UNLESS SPECIFICALLY NOTED TO HEAVINGS. 9. MAULTAKING BRANCH CIRCUINTS ARE PROHIBITED UNLESS SPECIFICALLY NOTED OTHERWISE. 9. MAULTAKING BRANCH CIRCUINTS ARE PROHIBITED UNLESS SPECIFICALLY NOTE ON DED SUMMENT ENDINESE. 9. MAULTAKING BRANCH CIRCUINTS ARE PROHIBITED UNLESS SPECIFICAL Y NOTEON OF ALL LABOR AND MATERIALS REQUIPMENT TO CONNECTIONS - THE CONTRACTOR SHALL BE PROVIDED WITH BLANK WALL PLATES 9. MAULTAKING BRANCH CIRCUINTS ARE PROHIBITED UNLESS SPECIFICAL Y NOTEON ALL ABOVE AND MATERIALS REQUIPMENT TO THE CONTRACTOR SHALL BE ON CONTROL ALL ABOR AND MATERIALS REQUIPMENT TO THE CONTRACTOR SHALL BE ONE CONTROL ALL ABOR AND MATERIALS REQUIPMENT TO THE CONTROL ALL ABOR AND MAUTERING BETOR 9. MAULTAKING RECOMPENT TO THE CONTRACTOR SHALL BE OR CONTROL ALL ABOR AND MATERIALS REQUIPMENT TO THE CONTROL ALL ADOR AND MATERIALS					ELECTRICAL GENERAL NOTES			
<ul> <li>FOR NEW CONSTRUCTION. ANY CONFLICTS SHALL BE BROUGHT TO THE ATCHITECT/ENGINEER AND RESOLVED PRIOR TO BID. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES.</li> <li>TENDED ARRANGEMENT OF RESOLVED PRIOT OF DID. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES.</li> <li>TENDED ARRANGEMENT OF RETOR ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR GUIDANCE AND COORDINATION WITH DIMENSIONS, CEILINI THE NECKLITS ARE THOSE CICLUS CAREWORK, THISHSES, STRUCTURAL CONCRETE, FRAMING, DUCTWORK, AND PIPING.</li> <li>ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NEC AND LOCAL ORDINANCES INCLUDING ALL CONCORTE (FRAMINGS). DUCTWORK, AND PIPING.</li> <li>ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NEC CARD LOCAL ORDINANCES INCLUDING ALL CONCORTOR (STALL).</li> <li>REFEAT COARCINTS AND PIPING.</li> <li>ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NEC CARD LOCAL ORDINANCES INCLUDING ALL CONCORTOR (STALL).</li> <li>REFLET COARCUTS AND APPLICATE CONSTRUCTOR STALL DETAIN AND PY FOR ALL NECESSARY PERMITS.</li> <li>ALL ELECTRICAL WORK SHALL BE CONCOMINGTOR (STALL) CORDINATES ON ADLOCAL ORDINANCES INCLUDING ALL CONCORTACTOR STALE DUCT ABOVE ACCESSIBLE CEILING FOR FUTUR CIRCUTS.</li> <li>REFLET CHARCHTER CONTRACTOR STALE DUCT ABOVE ACCESSIBLE CEILING FOR FUTUR CIRCUTS.</li> <li>REFLET CHARCHTER CONTRACTOR STALL BE PROVIDED WITH ALL AND STUBBED OUT ABOVE ACCESSIBLE CEILING FOR FUTUR CIRCUTS.</li> <li>REFLET CHARCHTER CONTRACTOR STALL BE PROVIDED WITH ALL AND STUBBED OUT ABOVE ACCESSIBLE CEILING MARE FINAL CONTRACTOR STALL BE PROVIDED WITH ALL AND STUBBED TO ABOVE ACCESSIBLE CEILING WITH STATING AND AUTORNAL TO THERMISCIE DUCTOR AND AND CREADERS.</li> <li>REFLET CONTRACTOR STAND OF ALL ELCOR OUTERS OFFICIALLY NOTED CORTACTOR STAND OR EXAMPLE STALL BE FOROLOGY.</li> <li>TORONTON ON ORK IS</li> <li>STALLED IN THE FACILITY AND AND ALCONS AND DORDER CIRCENTS FOR MOTOR CONTRACTOR AND/OR EQUIPMENT FURNISCHED BY OTHACTOR RESOLUTION BOYES INCLORATING AN</li></ul>								
<ul> <li>ELECTRICAL WORK ARE DIAGRAMATIC.</li> <li>ELECTRICAL WORK ARE DIAGRAMATIC.</li> <li>TENDED ARRANGEMENT OF RE THOSE CIRCUITS ARE</li> <li>ALL ELECTRICAL WORK AALL DED ONE IN ACCORDANCE WITH THE NEC ADD LOCAL ODINANCES INCLUDING ALL DOOR SWINGS, ELEVATIONS, CASEWORK, FINISHES, STRUCTURAL CONCRETE, FRAMING, DUCTWORK, AND PIPING.</li> <li>ALL ELECTRICAL WORK VAALL DED ONE IN ACCORDANCE WITH THE NEC ADD LOCAL ODINANCES INCLUDING ALL NECODUCTORS SHALL BE</li> <li>CONDUCTORS SHALL BE</li> <li>CONDUCTORS SHALL BE</li> <li>CONTING CONTINUITY RECONDUCTORS SHOWN ON THESE LEGENOS MAY NOT BE USED.</li> <li>ALL SYMBOLS SHOWN ON THESE LEGENOS MAY NOT BE USED.</li> <li>ALL SYMBOLS SHOWN ON THESE LEGENOS MAY NOT BE USED.</li> <li>ALL SYMBOLS SHOWN ON THESE LEGENOS MAY NOT BE USED.</li> <li>ALL SYMBOLS SHOWN ON THESE LEGENOS MAY NOT BE USED.</li> <li>ALL SYMBOLS SHOWN ON THESE LEGENOS MAY NOT BE USED.</li> <li>ALL SYMBOLS SHOWN ON THESE LEGENOS MAY NOT BE USED.</li> <li>ALL SYMBOLS SHOWN ON THESE LEGENOS MAY NOT BE USED.</li> <li>ALL SYMBOLS SHOWN ON THESE LEGENOS MAY NOT BE USED.</li> <li>ALL SYMBOLS SHOWN ON THESE LEGENOS MAY NOT BE USED.</li> <li>ALL SYMBOLS SHOWN ON THESE LEGENOS MAY NOT BE USED.</li> <li>ALL SYMBOLS SHOWN ON THESE LEGENOS MAY NOT BE USED.</li> <li>ALL SYMBOLS SHOWN ON THE DEVICE BY THIS CONTRACTOR SHALL MAK WALL PLATES MULTI-WIRE BRANCH CIRCUITS ARE PROVIDED WITH ADEVICE BY THIS CONTRACTOR AND/OR EQUIPMENT FURNISHED BY THIS CONTRACTOR SHALL BE REACHTECTIONS. THE CONTRACTOR SHALL DES PROVIDED WITH BLANK WALL PLATES MULTI-WIRE BRANCH CIRCUITS ARE PROVIDED WITH DEVICE MOUNTING ALL LABOR AND MATERIALS REQUIRED.</li> <li>PROVIDE ALL REQUIREMENTS, CONDUCTOR SIZE, OVERCURANT PROVED AND/RE ALL DABOR MALE PROVIDED WITH BLANK WALL PLATES STALLED IN THE FACILITY</li> <li>REFER TO "TYPICAL MOUNTING AND ALLGOMENT CRITERIA" DETAIL FOR OUTLET OWITH AND THE REQUIRED TO ANAUFACTURER.</li> <li>REFER TO "TYPICAL MOUNTED AUXILA</li></ul>		RESO	LVED PRIOR TO E	BID. WO	RK SHALL BE COORDINATED WITH ALL OTHER TRADES.			
<ol> <li>ALLELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NEC AND LOCAL ORDINANCES INCLUDING ALL RECONDUCTORS SHALL BE ON-FUNCTIONAL</li> <li>ALLELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NEC AND LOCAL ORDINANCES INCLUDING ALL RECONDUCTORS SHALL BE ON-FUNCTIONAL</li> <li>ALL SYMBOLS SHOWN ON THESE LEGENDS MAY NOT BE USED.</li> <li>ALL FLUSH MOUNTED PANELS SHALL BE ON-FUNCTIONAL</li> <li>ALL FLUSH MOUNTED PANELS SHALL BE AVEN THAT CROSS EXPANSION JOINTS OR CONDUTTS THAT PENETRATE WITH SEISMIC BRACING, SEE ARCHITECTURAL DRAWINGS.</li> <li>ALL FLUSH MOUNTED PANELS SHALL HAVE (4) 1° EMPTY CONDUTS STUBBED OUT ABOVE ACCESSIBLE CEILING FOR FUTUR CIRCUITS.</li> <li>VERIFY LOCATION OF ALL FLOOR OUTLETS WITH ARCHITECT PRIOR TO ROUGH-IN.</li> <li>ALL HALL OUTLETS NOT PROVIDED WITH A DEVICE BY THIS CONTRACTOR SHALL BE PROVIDED WITH BLANK WALL PLATES MULTI-WIRE BRANCH CIRCUITS ARE PROHIBITED UNLESS SPECIFICALLY NOTED OTHERWISE.</li> <li>FINAL EQUIPMENT CONNECTIONS TO ALL COUPMENT FURNISHED BY THIS CONTRACTOR NADIOR SOUTHMENT FURNISHED BY ON VERIFY ALL REQUIREMENTS SOLUMENT FURNISHED BY THIS CONTRACTOR NADIOR SOUTHMENT FURNISHED BY ON VERIFY ALL REQUIREMENTS SOLUTION STOLE DEVICE ON DRAS NAULFACTURER.</li> <li>FINAL EQUIPMENT CONNECTIONS TO ALL COUPMENT FURNISHED BY THIS CONTRACTOR NADIONE COUPMENT FURNISHED BY ON VERIFY ALL REQUIREMENTS SOLUTION STOLE DEVICE MOUNTING AND ALLONG MENT FURNISHED BY ON VERIFY ALL REQUIREMENTS SOLUTION STOLED BOY THIS CONTRACTOR SHALL ABOR AND MATERIALS REQUIREMENT PROVIDE ACCESS PANELS IN OYPBOAND FOR COUPMENT FURNISHED BY THIS CONTRACTOR SHALL ABOR AND MATERIALS REQUIRED NAMULACTURER.</li> <li>FINAL EDON'N MORK IS START OF ANY DEMOLITION</li> <li>TYPE 'ENT ELECTRICAL NON-METALLIC TUBING SHALL CON UNCE STUBBED TO ABOVE ACCESS SIBLE CEILING MANUTED AUXILANT PROVIDE AUXILANT PROVIDE AUXILAND TO CARD READERS, PUSH PLATES, ET START OF AND EXAMINES</li> <li>FINAL DOOR SWINACCHITEC AND RANGING SHALL ALE OR OUTHED AUXILANCE AND AND C</li></ol>		ELECT REFEF	TRICAL WORK AR R TO ARCHITECTI	RE DIAGR TURAL AN	RAMATIC. ND STRUCTURAL DRAWINGS FOR GUIDANCE AND COORDINATION WITH DIMENSIO	ONS, CEILINGS,		
<ol> <li>ALL SYMBOLS SHALL BE ONFLUCTIONS ALL BE ONFLUCTIONAL</li> <li>ALL SYMBOLS SHOWN ON THESE LEGENDS MAY NOT BE USED.</li> <li>ALL SYMBOLS SHALL BE ONFLUCTIONAL</li> <li>MALFLUSH MOUNTED PARELS SHALL HAVE (4) 1" EMPTY CONDUITS STUBBED OUT ABOVE ACCESSIBLE CELLING FOR FUTUR CIRCUITS.</li> <li>ALL FLUSH MOUNTED PARELS SHALL HAVE (4) 1" EMPTY CONDUITS STUBBED OUT ABOVE ACCESSIBLE CELLING FOR FUTUR CIRCUITS.</li> <li>ALL FLUSH MOUNTED PARELS SHALL HAVE (4) 1" EMPTY CONDUITS STUBBED OUT ABOVE ACCESSIBLE CELLING FOR FUTUR CIRCUITS.</li> <li>ALL FLUSH MOUNTED FORVIDED WITH A DEVICE BY THIS CONTRACTOR SHALL BE PROVIDED WITH BLANK WALL PLATES MULTI-WIRE BRANCH CIRCUITS ARE PROVIDED WITH A DEVICE BY THIS CONTRACTOR SHALL BE PROVIDING ALL LABOR AND MATERIALS REQUIPMENT FURNISHED BY THIS CONTRACTOR AND/OR EQUIPMENT FURNISHED BY ON PREVIDENT SUPPLIER REQUIREMENTS.</li> <li>MULTI-WIRE BRANCH CIRCUITONS TO ALL EQUIPMENT FURNISHED BY THIS CONTRACTOR AND/OR EQUIPMENT FURNISHED BY ON VERIFY ALL REQUIREMENTS. CONDUCTOR SIZE, OVERCURRENT PROTECTION, PASE. VOLTAGE, ETC., INNICITED ON DEAS.</li> <li>STALLED IN THE FACILITY</li> <li>REFER TO "TYPICAL MOUNTING AND ALIGNMENT CRITERIA" DETAIL FOR OUTLET DEVICE MOUNTING HEIGHT AND LOCATIONS STARLES IN THE FACILITY</li> <li>REFER TO "TYPICAL MOUNTING AND ALIGNMENT CRITERIA" DETAIL FOR OUTLET DEVICE MOUNTING HEIGHT AND LOCATION START OF ANY DEMOLITION ISTOR TO FANY DEMOLITION ISTOR TO FANY DEMOLITION START OF ANY DEMOLITION ISTOR TO FANY DEMOLITION ISTOR THAT DECORRENT ON THE USE STIGUTOR TO ROUGH-IN OF WALL MOUNTED DIAGNOS READERS, PUSH PLATES, ET ISTO VERIFY ACTUAL, IDITIONS AND FULLY</li> <li>THE CIRCURATE AND MARK THE ISTON PROVIDE ALL BLOW PROVIDE AND THAT IN THE SPECTED ON THE SOURCE SHALL BE FOR MOUNTING DIRECTLY THERERON.</li> <li>PROVIDE ACCESS PROFUM ITION WORK IS</li> <li>STIGATION OF CALLED AND THAT IN SECONCE AND DRAWI</li></ol>		3. ALL EL	LECTRICAL WORK	RK SHALL	BE DONE IN ACCORDANCE WITH THE NEC AND LOCAL ORDINANCES INCLUDING	ALL		
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<ul> <li>AS NECESSARY TO</li> <li>9. MULTI-WIRE BRANCH CIRCUITS ARE PROHIBITED UNLESS SPECIFICALLY NOTED OT HERWISE.</li> <li>10. FINAL EQUIPMENT CONNECTIONS - THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS REQU MAKE FINAL CONNECTIONS TO ALL EQUIPMENT FURNISHED BY THIS CONTRACTOR AND/OR EQUIPMENT FURNISHED BY ON VERIFY ALL REQUIREMENT SOUPLIER REQUIREMENTS PRIOR TO ROUGH-IN. PROVIDE FUSED DISCONNECT IF REQUIRED BY MANUFACTURER.</li> <li>11. REFERT O "TYPICAL MOUNTING AND ALIGNMENT CRITERIA" DETAIL FOR OUTLET DEVICE MOUNTING HEIGHT AND LOCATION TOUND TO BE IN START OF ANY DEMOLITION E DEMOLITION WORK IS</li> <li>13. PROVIDE A MINIMUM OF (1) 34"C. WITH PULLSTRING AND NYLON END BUSHING STUBBED TO ABOVE ACCESSIBLE CEILING WALL MOUNTED AUXILIARY DEVICE, JUNCTION BOXES INCLUDING, BUT NOT LIMITED TO CARD READERS, PUSH PLATES, ET STATT OF ANY DEMOLITION E DEMOLITION WORK IS</li> <li>14. PROVIDE A MINIMUM OF (1) 34"C. WITH PULLSTRING AND NYLON END BUSHING STUBBED TO ABOVE ACCESSIBLE CEILING WALL MOUNTED AUXILIARY DEVICE, JUNCTION BOXES INCLUDING, BUT NOT LIMITED TO CARD READERS, PUSH PLATES, ET STATT OF ANY DEMOLITION E DEMOLITION WORK IS</li> <li>15. ALL 120V RECEPTACLE OUTLETS WITHIN 6FT OF A WATER SOURCE SHALL BE GFCI PROTECTED.</li> <li>16. VERIFY ALT UAL DITIONS AND FULLY</li> <li>17. PROVIDE ADDITIONAL STEEL SUPPORTS FOR MOTOR CONTROLLERS, FIXTURES, RACEWAYS, CABINETS, BOXES, AND THE WHRE THE BUILDING, EQUIPMENT, OR STRUCTURE IS NOT SUITABLE FOR MOUNTING DIRECTLY THERERON.</li> <li>18. "PROVIDE ADDITIONAL STEEL SUPPORTS FOR MOTOR CONTROLLERS, FIXTURES, RACEWAYS, CABINETS, BOXES, AND THE WHRE THE BUILDING, EQUIPMENT, OR STRUCTURE IS NOT SUITABLE FOR MOUNTING DIRECTLY THERERON.</li> <li>19. ELECTRICAL WORK EMBEDDED IN CONCRETE OR OTHER SUCH RATED ASSEMBLIES SHALL BE FIRESTOPPED TO MAINTAIN OPERATIONS.</li> <li>19. ELECTRICAL WORK EMBEDDED IN CONCRETE OR OTHERWISE PERMANENTLY CONCEALED SHALL BE FIRESTOPPED TO MAINTAIN ITS RATING.</li> </ul>		7. VERIF 8. ALL W	Y LOCATION OF A	IOT PROV	IDED WITH A DEVICE BY THIS CONTRACTOR SHALL BE PROVIDED WITH BLANK W	VALL PLATES.		
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<ul> <li>DOOR OPERATORS, ETC.</li> <li>DOOR OPERATORS, ETC.</li> <li>PROVIDE ADDITIONAL STEEL SUPPORTS FOR MOTOR CONTROLLERS, FIXTURES, RACEWAYS, CABINETS, BOXES, AND THE WHRE THE BUILDING, EQUIPMENT, OR STRUCTURE IS NOT SUITABLE FOR MOUNTING DIRECTLY THEREON.</li> <li>THER TRADES. PERFORM ITION WORK OF OTHER</li> <li>DEVICES AND LOCATIONS. AND LOCATIONS. AND ALL ASSOCIATED R SOURCE UNLESS NOTED</li> <li>DITIONS PRIOR TO BIDDING. RY TO MAINTAIN OPERATION</li> <li>SIDE AREA OF</li> </ul>		15. ALL 12 16. VERIF	20V RECEPTACLE Y ALL DOOR SWI	E OUTLE /INGS W/ /	TS WITHIN 6FT OF A WATER SOURCE SHALL BE GFCI PROTECTED.			
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<ol> <li>ELECTRICAL WORK EMBEDDED IN CONCRETE OR OTHERWISE PERMANENTLY CONCEALED SHALL NOT BE COVERED UNTIL INSPECTED BY THE OWNER'S REPRESENATIVE.</li> <li>ALL PENETRATIONS THROUGH FIRE RESISTANT WALLS AND OTHER SUCH RATED ASSEMBLIES SHALL BE FIRESTOPPED TO MAINTAIN ITS RATING.</li> <li>ALL PENETRATIONS THROUGH FIRE RESISTANT WALLS AND OTHER SUCH RATED ASSEMBLIES SHALL BE FIRESTOPPED TO MAINTAIN ITS RATING.</li> <li>ALL PENETRATIONS THROUGH FIRE RESISTANT WALLS AND OTHER SUCH RATED ASSEMBLIES SHALL BE FIRESTOPPED TO MAINTAIN ITS RATING.</li> <li>SIDE AREA OF</li> </ol>		18. "PROV COMP	VIDE" USED IN SPI PLETELY IN SPECI	PECIFICA <sup>®</sup>	TIONS AND DRAWINGS SHALL MEAN "TO FURNISH, INSTALL, CONNECT, AND PLAC R APPROVED MANNER THE ITEM DESCRIBED."			
MAINTAIN ITS RATING. MAINTAIN ITS RATING. MAINTAIN ITS RATING. MAINTAIN ITS RATING. MAINTAIN ITS RATING. MAINTAIN ITS RATING.	ITION WORK OF OTHER	INSPE	ECTED BY THE OW	WNER'S F	REPRESENATIVE.			
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RICAL SERVICE TO	SIDE AREA OF							
MATERIALS SHALL BE	RICAL SERVICE TO							
D REQUIREMENTS, TCLP	D REQUIREMENTS, TCLP							
CIRCUIT BREAKERS								
ACE. S WHERE CEILINGS ARE TO ITATE INSTALLATION OF	CE. WHERE CEILINGS ARE TO							

	ELECTRICAL ABBREVIATIONS					
ABBREVIATION	DESCRIPTION					
(ED)	EXISTING TO BE DEMOLISHED					
(EL)	EXISTING DEVICE SHOWN IN NEW LOCATION TO BE REINSTALLED					
(EN)	EXISTING TO BE REPLACED WITH NEW.					
(ER)	EXISTING TO BE RELOCATED					
(EX)	EXISTING TO REMAIN					
A, AMP	AMPERES					
AF	AMP FRAME - CIRCUIT BREAKER; AMP FUSE - FUSED SWITCH					
AFC, AC	ABOVE FINISHED CABINET/COUNTER					
AFF	ABOVE FINISHED FLOOR					
AFG	ABOVE FINISHED GRADE					
٩FI	ARC FAULT INTERRUPTER					
AIC	AMPERE INTERRUPTING CAPACITY					
AL	ALUMINUM					
ALSI	ARC FLASH ENERGY REDUCTION, LONG TIME, SHORT TIME, INSTANTANEOUS					
ALSIG	ARC FLASH ENERGY REDUCTION, LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT					
AT	AMP TRIP					
ATS	AUTOMATIC TRANSFER SWITCH					
BKR, CB	CIRCUIT BREAKER					
С	CONDUIT					
СМ	COFFEE MAKER					
СРТ	CONTROL POWER TRANSFORMER					
CR	CRITICAL / CRITICAL BRANCH EMERGENCY					
СТ	CURRENT TRANSFORMER					
CU	COPPER					
DISC	DISCONNECT					
DIV	DIVISION					
DW	DISHWASHER					
EC	ELECTRICAL CONTRACTOR					
ECB	ENCLOSED CIRCUIT BREAKER					
EG	EQUIPMENT GROUND					
EM	EMERGENCY					
EO	ELECTRICALLY OPERATED					
EPO	ELECTRICALLY OPERATED					
EPO EQ	EQUIPMEN BRANCH EMERGENCY					
EWC	ELECTRIC WATER COOLER					
FWE						
G, GND	GROUND					
GD						
GDS	GENERATOR DOCKING STATION					
GFPE						
H	HORIZONTAL, HORIZONTALLY MOUNTED					
HOA	HAND-OFF-AUTO					
HP	HORSEPOWER					
IAW						
IG	ISOLATED GROUND					
IM						
KV	KILOVOLT					
KVA	KILOVOLT-AMPERES					
KWH	KILOWATT-HOURS					
LS	LIFE SAFETY BRANCH EMERGENCY					
LSI	LONG TIME, SHORT TIME, INSTANTANEOUS					
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT					
LTS	LIGHTS					
MCA	MAXIMUM CIRCUIT AMPACITY					
МСВ	MAIN CIRCUIT BREAKER					
MCC	MOTOR CONTROL CENTER					
MCP	MECHANICAL CONTROL PANEL					
MLO	MAIN LUGS ONLY					
MOCP	MAXIMUM OVERCURRENT PROTECTION					
MRS	MOTOR RATED SWITCH					
WW	MEGAWATT					
NC	NORMALLY CLOSED					
NEC	NATIONAL ELECTRICAL CODE					
NIC	NOT IN CONTRACT					
NL	NIGHT LIGHT - FIXTURE CONTROLLED AT BRANCH CIRCUIT BREAKER ONLY					
NO	NORMALLY OPEN					
NTS	NOT TO SCALE					
00	ON CENTER					
	POLE					
РН	PHASE					
PNL	PANEL					
- NL PT	POTENTIAL TRANSFORMER					
RECEPT, RCPT						
REF	RECEPTACLE					
	SURGE PROTECTION DEVICE					
ebn						
	SWITCHBOARD					
SWBD	TAMPER-RESISTANT					
SPD SWBD TR	TYPICAL					
SWBD TR TYP						
SWBD TR TYP UNO,UON	UNLESS NOTED OTHERWISE					
SWBD TR TYP	UNINTERUPTABLE POWER SUPPLY					
SWBD TR TYP UNO,UON						
SWBD TR TYP JNO,UON JPS V	UNINTERUPTABLE POWER SUPPLY					
SWBD TR TYP UNO,UON UPS	UNINTERUPTABLE POWER SUPPLY VOLTS					
SWBD TR TYP UNO,UON UPS V VA	UNINTERUPTABLE POWER SUPPLY VOLTS VOLT-AMPERES					
SWBD TR TYP UNO,UON UPS V VA VA	UNINTERUPTABLE POWER SUPPLY VOLTS VOLT-AMPERES VIEWBOX					
SWBD TR TYP JNO,UON JPS V VA VA VB W	UNINTERUPTABLE POWER SUPPLY VOLTS VOLT-AMPERES VIEWBOX WATTS, WIRE					

# ELECTRICAL INDEX OF DRAWINGS

SHEET NUMBER	SHEET NAME				
E-001	ELECTRICAL SYMBOLS, & NOTES				
E-002	ELECTRICAL SPECIFICATION				
E-003	ELECTRICAL DETAILS				
E-101	FIRST FLOOR PLAN + ELECT DEMOLITION				
E-201	FIRST FLOOR PLAN + ELECTRICAL				

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KEY PLAN
I2C FIRST FLOOR CFR BUILD OUT 6000 SECOND ST DETROIT MICHIGAN 48202
NO. ISSUE/REV. DATE BID SET 03.13.23
ELECTRICAL SYMBOLS, & NOTES

ELECTRICAL GENERAL REQUIREMENT:

- A. SCOPE OF WORK: ALL MATERIAL SHALL BE NEW UNLESS OTHERWISE INDICATED. FURNISH ALL LABOR, EQUIPMENT, TECHNICAL SUPERVISION, AND INCIDENTAL SERVICES REQUIRED TO COMPLETE, TEST AND LEAVE READY FOR OPERATION THE ELECTRICAL SYSTEMS AS SPECIFIED AND AS INDICATED ON DRAWINGS.
- B. ORDINANCES AND CODES: PERFORM ALL WORK IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL ORDINANCES AND REGULATIONS, THE RULES AND REGULATIONS OF NFPA, NECA, AND UL UNLESS OTHERWISE INDICATED.
- C. UNLESS OTHERWISE INDICATED, ALL REQUIRED PERMITS, LICENSES, INSPECTIONS, APPROVALS AND FEES FOR ELECTRICAL WORK SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR. ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES, RULES AND REGULATIONS.
- D. THE DRAWINGS SHOW THE LOCATION AND GENERAL ARRANGEMENT OF EQUIPMENT, ELECTRICAL SYSTEMS AND RELATED ITEMS. THEY SHALL BE FOLLOWED AS CLOSELY AS ELEMENTS OF NEW CONSTRUCTION WILL PERMIT.
- E. EXAMINE THE DRAWINGS OF OTHER TRADES AND VERIFY THE CONDITIONS GOVERNING THE WORK ON THE JOB SITE. ARRANGE WORK ACCORDINGLY, PROVIDING LABOR AND MATERIALS AS MAY BE REQUIRED TO MEET SUCH CONDITIONS.
- F. COORDINATE ARRANGEMENT, MOUNTING AND SUPPORT OF ELECTRICAL EQUIPMENT WITH OTHER TRADES.
- G. VISIT THE SITE, EXAMINE AND VERIFY THE CONDITIONS UNDER WHICH THE WORK MUST BE CONDUCTED BEFORE SUBMITTING PROPOSAL THE SUBMISSION OF A PROPOSAL IMPLIES THAT THE CONTRACTOR HAS VISITED THE SITE AND UNDERSTANDS THE CONDITIONS UNDER WHICH THE WORK MUST BE CONDUCTED. NO ADDITIONAL CHARGES WILL BE ALLOWED BECAUSE OF FAILURE TO MAKE THIS EXAMINATION OR TO INCLUDE ALL MATERIALS AND LABOR TO COMPLETE THE WORK.
- H. BIDS SHALL BE BASED UPON MANUFACTURED EQUIPMENT SPECIFIED. VOLUNTARY ALTERNATES MAY BE SUBMITTED FOR CONSIDERATION, WITH LISTED ADDITION OR DEDUCTION TO THE BID.
- WARRANTY: CONTRACTOR SHALL WARRANTY THAT THE ELECTRICAL INSTALLATION IS FREE FROM DEFECTS AND AGREES TO REPLACE OR REPAIR, TO THE OWNER'S SATISFACTION, ANY PART OF THIS ELECTRICAL INSTALLATION WHICH BECOMES DEFECTIVE WITHIN A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION FOLLOWING FINAL ACCEPTANCE, PROVIDED THAT SUCH FAILURE IS DUE TO DEFECTS IN THE EQUIPMENT, MATERIAL WORKMANSHIP OR FAILURE TO FOLLOW THE CONTRACT DOCUMENTS.
- J. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TEMPORARY SERVICES INCLUDING EQUIPMENT AND INSTALLATION REQUIRED TO MAINTAIN OPERATION AS A RESULT OF ANY EQUIPMENT FAILURE OR DEFECT DURING WARRANTY PERIOD.
- K. FILE WITH THE OWNER ANY AND ALL WARRANTIES FROM THE EQUIPMENT MANUFACTURERS INCLUDING THE OPERATING CONDITIONS AND PERFORMANCE CAPACITIES THEY ARE BASED ON.
- L. IN GENERAL DEMOLITION WORK IS INDICATED ON THE DRAWINGS. HOWEVER, THE CONTRACTOR SHALL VISIT THE JOB SITE TO DETERMINE THE FULL EXTENT AND CHARACTER OF THIS WORK.
- M. UNLESS SPECIFICALLY NOTED TO THE CONTRARY, REMOVED MATERIALS SHALL NOT BE REUSED IN THE WORK. SALVAGED MATERIALS THAT ARE TO BE REUSED SHALL BE STORED SAFE AGAINST DAMAGE AND TURNED OVER TO THE APPROPRIATE TRADE FOR REUSE. SALVAGED MATERIALS OF VALUE THAT ARE NOT TO BE REUSED SHALL REMAIN THE PROPERTY OF THE OWNER UNLESS SUCH OWNERSHIP IS WAIVED. ITEMS ON WHICH THE OWNER WAIVES OWNERSHIP SHALL BECOME THE PROPERTY OF THE CONTRACTOR, WHO SHALL REMOVE AND LEGALLY DISPOSE OF SAME, AWAY FROM THE PREMISES.
- N. CONSULT WITH THE OWNER'S REPRESENTATIVE AS TO THE METHODS OF CARRYING ON THE WORK SO AS NOT TO INTERFERE WITH THE OWNER'S OPERATION ANY MORE THAN ABSOLUTELY NECESSARY. ACCORDINGLY, ALL SERVICE LINES SHALL BE KEPT IN OPERATION AS LONG AS POSSIBLE AND THE SERVICES SHALL ONLY BE INTERRUPTED AT SUCH TIME AS WILL BE DESIGNATED BY THE OWNER'S REPRESENTATIVE.
- O. ALL CUTTING, PATCHING AND REPAIR WORK SHALL BE PERFORMED BY THE CONTRACTOR THROUGH APPROVED, QUALIFIED SUBCONTRACTORS. CONTRACTOR SHALL INCLUDE FULL COST OF SAME IN BID.
- P. INSPECT THE INSTALLATION OF ALL EQUIPMENT PER THE MANUFACTURER'S RECOMMENDATION AND APPLICABLE CODES.
- Q. PROVIDE UL APPROVED FIRE-STOPPING SYSTEM FOR ALL PENETRATIONS PASSING THROUGH FIRE RATED ASSEMBLES.
- R. COMPLY WITH NECA 1.
- S. PROVIDE COMPLETE OPERATION AND MAINTENANCE INSTRUCTIONAL MANUALS COVERING ALL ELECTRICAL EQUIPMENT HEREIN SPECIFIED, TOGETHER WITH PARTS LISTS.
- T. CONTRACTOR SHALL SUBMIT TO THE ARCHITECT, RECORD DRAWINGS ON ELECTRONIC MEDIA OR BLACK LINE REPRODUCTIONS WHICH HAVE BEEN NEATLY MARKED TO REPRESENT AS-BUILT CONDITIONS FOR ALL NEW ELECTRICAL WORK.
- U. MATERIALS AND MEANS AND METHODS SHALL ADHERE TO LATEST WSU DESIGN AND CONCTRUCTION STANDARDS, WHERE DISCREPANCIES EXIST BETWEEN THESE SPECIFICATIONS AND DRAWINGS AND THE WSU STANDARDS, WSU STANDARDS SHALL TAKE PRESCEDENT.
- V. SUBMIT FOR APPROVAL SHOP DRAWINGS FOR ALL ELECTRICAL SYSTEMS OR EQUIPMENT BUT NOT LIMITED TO THE ITEMS LISTED BELOW: 1. WIRING DEVICES
- 2. LIGHTING FIXTURES 3. LIGHTING CONTROL SYSTEMS AND DEVICES

LIGHTING CONTROL DEVICES

A. INSTALL LIGHTING CONTROL DEVICES AS INDICATED ON PLAN.

- B. COORDINATE OCCUPANCY/VACANCY SENSOR LOCATIONS, COVERAGE AND REQUIRED QUANTITIES WITH MANUFACTURER'S RECOMMENDATIONS. COVERAGE AREAS INDICATED ON THE DRAWINGS ARE FOR MINOR MOTION (6 TO 8 INCHES OF HAND MOVEMENT). PROVIDE ADDITIONAL OCCUPANCY SENSORS AND CONTROL UNITS AS REQUIRED TO ACHIEVE COMPLETE MINOR MOTION COVERAGE OF THE SPACE INDICATED
- C. OCCUPANCY/VACANCY SENSOR ADJUSTMENTS: WHEN REQUESTED WITHIN 12 MONTHS OF DATE OF SUBSTANTIAL COMPLETION, PROVIDE ON-SITE ASSISTANCE IN ADJUSTING SENSORS TO SUIT ACTUAL OCCUPIED CONDITIONS PROVIDE UP TO TWO VISITS TO SITE OUTSIDE NORMAL OCCUPANCY HOURS FOR THIS PURPOSE.
- D. OCCUPANCY/VACANCY SENSOR:

MANUFACTURER.

- WALL SWITCH DUAL TECHNOLGY SENSOR: SENSOR SWITCH WSX WSU OR APPROVED EQUAL DUAL RELAY, DUAL TECHNOLOGY SENSOR: SENSOR SWITCH WSX2P OR WSU APPROVED EQUAL 3. 360° CEILING MOUNTED DUAL TECHNOLOGY SENSOR: SENSOR SWITCH CM OR WSU APPROVED EQUAL
- E. OCCUPANCY/VACANCY SENSOR CONTROL UNITS:
- 1. DESCRIPTION: TRANSFORMER AND RELAY COMBINED IN SINGLE UNIT TO PROVIDE 24DC POWER TO SENSORS AND PROVIDE 20A CONTACT(S) FOR CONTROL OF LIGHTING LOADS AT 120 OR 277V. CONTROL UNIT INPUT POWER SHALL BE FROM UNSWITCHED LEG OF LIGHTING CIRCUIT IT IS CONTROLLING.
- a. CONTROL UNITS SHALL BE PROVIDED AS REQUIRED TO POWER CEILING MOUNTED OCCUPANCY SENSORS, CONTROL LIGHTING LOADS AND PROVIDE A MINIMUM OF ONE AUXILIARY CONTACT. b. OCCUPANCY SENSOR CONTROL UNITS SHALL MOUNT EXTERNAL TO 4-INCH SQ JUNCTION BOX IN THE CEILING SPACE. ALL WIRING BETWEEN CONTROL UNIT AND OCCUPANCY SENSOR SHALL BE
- PLENUM RATED. c. LOCATE CONTROL UNIT IN ACCESSIBLE LOCATION IN GYP-BOARD CEILINGS, ADJACENT TO RETURN AIR GRILLES, OR PROVIDE ACCESS PANEL
- d. ADDITIONAL AUXILIARY RELAY MODULES SHALL BE PROVIDED AS REQUIRED TO PROVIDE CONTROL OF ALL LIGHTING CIRCUITS AND ADDITIONAL AUXILIARY CONTACTS AS REQUIRED.
- e. IT IS ACCEPTABLE TO PROVIDE CONTROLS AND AUXILIARY CONTACTS AS REQUIRED INTEGRAL TO NEW CEILING SENSOR, PROVIDED ALL REQUIRED CONTACTS ARE PROVIDED. f. MAXIMUM OF 3 SENSORS PER POWER PACK. VERIFY EXACT QUANTITIES REQUIRED WITH

**IDENTIFICATION** 

- A. COMPLY WITH ANSI A13.1, ANSI C2, NFPA 70, AND 29 CFR 1910.145
- B. COORDINATE IDENTIFICATION NAMES, ABBREVIATIONS, COLORS, AND OTHER FEATURES WITH AND 29 CFR 1910.145. USE CONSISTENT DESIGNATIONS THROUGHOUT PROJECT.
- C. COORDINATE INSTALLATION OF IDENTIFYING DEVICES WITH COMPLETION OF COVERING AND PAINTING OF
- D. INSTALL IDENTIFYING DEVICES BEFORE INSTALLING ACOUSTICAL CEILINGS AND SIMILAR CONCEALMENT.
- LETTER HEIGHT SHALL BE 3/8 INCH (10 MM). LABELS SHALL BE INSTALLED ON ALL ELECTRICAL EQUIPMENT AFFECTED BY PROJECT.
- 2. ENCLOSED CONTROLLERS, CIRCUIT BREAKERS, DISCONNECT SWITCHES IDENTIFY SOURCE AND LOAD SERVED.
- SIZE OF 7. IDENTIFY PANELBOARD AND CIRCUIT NUMBER FROM WHICH SERVED.
- CONDUCTORS.
- JURISDICTION PERMIT, FIELD APPLIED. 2. COLORS FOR 208/120-V CIRCUITS
- a. PHASE A BLACK b. PHASE B: RED
- PHASE C: BLUE
- d. NEUTRAL: WHITE 3. COLORS FOR 480/277-V CIRCUITS: a. PHASE A: BROWN
- b. PHASE B: ORANGE PHASE C: YELLOW
- d. NEUTRAL: GRAY
- BANDS TO AVOID OBSCURING FACTORY CABLE MARKINGS.
- BLACK LETTERS ON AN ORANGE BACKGROUND. APPLY TO EXTERIOR OF DOOR, COVER, OR OTHER ACCESS.
- EQUIPMENT INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: a. AUTOMATIC TRANSFER SWITCHES.
- SERVICE ENTRANCE EQUIPMENT. SIMILAR EQUIPMENT IN FINISHED SPACES.
- COLOR-CODED, SELF-ADHESIVE VINYL TAPE APPLIED IN BANDS OR PAINTED RACEWAY FIRE ALARM SYSTEM: RED. SECURITY SYSTEM: BLUE AND YELLOW.
- 3. TELECOMMUNICATION SYSTEM: GREEN AND YELLOW. 4. CONTROL WIRING: GREEN AND RED.

WIRING DEVICES

- OR EQUAL BY PASS & SEYMOUR OR COOPER.
- OR EQUAL BY PASS & SEYMOUR OR COOPER.
- D. LED LAMP DIMMER SWITCHES: LUTRON OR EQUAL, COMPATIBLE WITH LED DIMMING DRIVER SPECIFIED.
- DIMMERS: SWITCHING TO SUIT CONNECTIONS.
- GANGING ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS MANUFACTURERS' WRITTEN INSTRUCTIONS.
- F. WALL PLATES:
- PROVIDE STAINLESS STEEL WALL PLATES IN FINISHED AREAS. PROVIDE GALVANIZED STEEL WALL PLATES IN UNFINISHED AREAS. PROVIDE WEATHERPROOF WHILE-IN-USE COVERPLATES FOR WET LOCATIONS.
- G. WIRING DEVICE/WALL PLATE COLOR AS SELECTED BY ARCHITECT UNLESS OTHERWISE INDICATED OR **REQUIRED BY NFPA 70.**
- GROUND STRAP OR SCREW IS NOT ACCEPTABLE

**GROUNDING AND BONDING** 

THAN REQUIRED BY NFPA 70 ARE INDICATED.

#### CONDUCTORS AND CABLES

- OTHERWISE, ALL 20A BRANCH CIRCUITS SHALL BE 2#12, 1#12G, 3/4"C.
- CONTRACTOR.
- TERMINALS.
- H. CONDUCTOR AND INSULATION APPLICATIONS: FEEDERS: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY BRANCH CIRCUITS, INCLUDING IN CRAWLSPACES: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY PROVIDE A DEDICATED NEUTRAL FOR EACH CIRCUIT.
- CLASS I CONTROL CIRCUITS TYPE THHN -THWN IN RACEWAY 4. CLASS II CONTROL CIRCUITS: POWER LIMITED CABLE

REQUIREMENTS IN THE CONTRACT DOCUMENTS, SHOP DRAWINGS, MANUFACTURER'S WIRING DIAGRAMS, AND THE OPERATION AND MAINTENANCE MANUAL AND WITH THOSE REQUIRED BY CODES, STANDARDS,

SURFACES WHERE DEVICES ARE TO BE APPLIED, WITH LOCATION OF ACCESS PANELS AND DOORS.

INSTALL ENGRAVED, LAMINATED ACRYLIC OR MELAMINE LABELS THAT ARE PUNCHED OR DRILLED FOR SCREW MOUNTING WITH SELF TAPPING STAINLESS STEEL SCREW. LABELS SHALL HAVE BLACK LETTERS ON A WHITE BACKGROUND [AND WHITE LETTERS ON RED BACKGROUND FOR EMERGENCY]. MINIMUM

1. PANELBOARD AND TRANSFORMER NAMEPLATES IDENTIFY SOURCE FED FROM, VOLTAGE, SIZE, NAME

F. WIRING DEVICES: USE ADHESIVE LABEL WITH BLACK[, RED FOR EMERGENCY,] FILM LETTERING ON FACE OF WALL PLATE [ON THE REAR OF THE FACEPLATE] AND DURABLE WIRE MARKERS OR TAGS INSIDE OUTLET BOXES. LABELS SHALL BE CLEAR POLYESTER WITH BLACK LETTER[, RED LETTER FOR EMERGENCY], FONT

G. USE THE COLORS USED BELOW FOR UNGROUNDED SERVICE, FEEDER, AND BRANCH-CIRCUIT

1. COLOR SHALL BE FACTORY APPLIED OR, FOR SIZES LARGER THAN NO. 10 AWG IF AUTHORITIES HAVING

4. FIELD-APPLIED, COLOR-CODING CONDUCTOR TAPE APPLY IN HALF-LAPPED TURNS FOR A MINIMUM DISTANCE OF 6 INCHES FROM TERMINAL POINTS AND IN BOXES WHERE SPLICES OR TAPS ARE MADE. APPLY LAST TWO TURNS OF TAPE WITH NO TENSION TO PREVENT POSSIBLE UNWINDING. LOCATE

H. WARNING LABELS FOR INDOOR CABINETS, BOXES, AND ENCLOSURES FOR POWER AND LIGHTING: COMPLY WITH 29 CFR 1910.145 AND APPLY SELF-ADHESIVE WARNING LABELS. IDENTIFY SYSTEM VOLTAGE WITH

1. EQUIPMENT WITH MULTIPLE POWER OR CONTROL SOURCES APPLY TO DOOR OR COVER OF

2. EQUIPMENT REQUIRING WORKSPACE CLEARANCE ACCORDING TO NFPA 70: UNLESS OTHERWISE INDICATED, APPLY TO DOOR OR COVER OF EQUIPMENT BUT NOT ON FLUSH PANELBOARDS AND

ACCESSIBLE RACEWAYS AND CABLES OF AUXILIARY SYSTEMS IDENTIFY THE FOLLOWING SYSTEMS WITH

A. STRAIGHT-BLADE-TYPE RECEPTACLES: HEAVY DUTY SPECIFICATION GRADE. COMPLY WITH NEMA ID 1, NEMA ID 6, DSCC W-C-596G, AND UL 498. CONFIGURATION 5-20R DUPLEX RECEPTACLE HUBBELL HBL5362X

B. GFI RECEPTACLES: STRAIGHT BLADE FEED-THROUGH TYPE, GENERAL DUTY GRADE, WITH INTEGRAL NEMA WD 6, CONFIGURATION 5-20R DUPLEX RECEPTACLE; COMPLYING WITH UL 498 AND UL 943. DESIGN UNITS FOR INSTALLATION IN A 2-3/4-INCH- (70-MM-) DEEP OUTLET BOX WITHOUT AN ADAPTER. HUBBELL GF20XL

C. WALL SWITCHES: SINGLE AND DOUBLE-POLE SWITCHES COMPLY WITH DSCC W-C-896F AND UL 20. HUBBELL WIRING DEVICE, KELLEMS 1220 SERIES OR EQUAL BY PASS & SEYMOUR, COOPER OR LEVITON

1. CONTROL: CONTINUOUSLY ADJUSTABLE SLIDER WITH PRE-SET; SINGLE-POLE OR THREE-WAY

INSTALL WALL DIMMERS TO ACHIEVE FULL RATING SPECIFIED AND INDICATED AFTER DERATNG FOR INSTALL UNSHARED NEUTRAL CONDUCTORS ON LINE AND LOAD SIDE OF DIMMERS ACCORDING TO

H. CONNECT WIRING DEVICE GROUNDING TERMINAL TO OUTLET BOX WITH BONDING JUMPER. USE OF QUICK

A. EQUIPMENT GROUNDING: COMPLY WITH NFPA 70. ARTICLE 250. FOR TYPES, SIZES, AND QUANTITIES OF EQUIPMENT GROUNDING CONDUCTORS, UNLESS SPECIFIC TYPES, LARGER SIZES, OR MORE CONDUCTORS

B. PROVIDE EQUIPMENT GROUNDING CONDUCTORS IN EACH RACEWAY.

A. CONDUCTOR MATERIAL: COPPER COMPLYING WITH NEMA WC: 70; STRANDED CONDUCTOR.

B. CONDUCTOR INSULATION TYPES: TYPE THHN-THWN, SO, COMPLYING WITH NEMA WC 70.

C. CONCEAL CABLES IN FINISHED WALLS, CEILINGS, AND FLOORS, UNLESS OTHERWISE INDICATED.

D. USE CONDUCTOR NOT SMALLER THAN 12 AWG FOR POWER AND LIGHTING CIRCUITS. UNLESS INDICATED

E. USE CONDUCTOR NOT SMALLER THAN #14 AWG FOR CONTROL CIRCUITS PROVIDED BY ELECTRICAL

F. SUPPORT COMMUNICATION CABLES ABOVE ACCESSIBLE CEILING, USING SPRING METAL CLIPS OR PLASTIC CABLE TIES TO SUPPORT CABLES FROM STRUCTURE DO NOT REST CABLE ON CEILING PANELS.

G. USE "STA-KON" CONNECTORS TO TERMINATE STRANDED CONDUCTORS #10 AWG AND SMALLER TO SCREW

PANELBOARDS

- A. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY EXISTING PANELBOARD MANUFACTURER (GENERAL ELECTRIC).
- B. SHORT-CIRCUIT RATING: FULLY RATED TO INTERRUPT SYMMETRICAL SHORT-CIRCUIT CURRENT AVAILABLE AT TERMINALS.
- C. INSTALL PANELBOARDS AND ACCESSORIES ACCORDING TO NEMA PB 1.1.
- D. CREATE A DIRECTORY TO INDICATE INSTALLED CIRCUIT LOADS CREATED BY RETROFITTING. OBTAIN APPROVAL BEFORE INSTALLING, CREATE A TYPED DIRECTORY: HANDWRITTEN DIRECTORIES ARE NOT ACCEPTABLE. COORDINATE FINAL DIRECTORY ROOM NAMES AND NUMBERS WITH OWNER.
- E. ON COMPLETION OF INSTALLATION, INSPECT INTERIOR AND EXTERIOR OF PANELBOARDS. REMOVE PAINT SPLATTERS AND OTHER SPOTS. VACUUM DIRT AND DEBRIS; DO NOT USE COMPRESSED AIR TO ASSIST IN CLEANING. REPAIR EXPOSED SURFACES TO MATCH ORIGINAL FINISH.
- F. MOLDED-CASE CIRCUIT BREAKERS UL 489, WITH INTERRUPTING CAPACITY TO MEET AVAILABLE FAULT CURRENTS.
- 1. THERMAL-MAGNETIC CIRCUIT BREAKERS INVERSE TIME-CURRENT ELEMENT FOR LOW-LEVEL OVERLOADS, AND INSTANTANEOUS MAGNETIC TRIP ELEMENT FOR SHORT CIRCUITS. ADJUSTABLE ACCESS COVER.
- MOLDED-CASE CIRCUIT-BREAKER FEATURES AND ACCESSORIES 1. LUGS MECHANICAL STYLE, SUITABLE FOR NUMBER, SIZE, TRIP RATINGS, AND CONDUCTOR MATERIALS. 2. APPLICATION USING: APPROPRIATE FOR APPLICATION; TYPE SW) FOR SWITCHING FLUORESCENT
- LIGHTING LOADS; TYPE HACR FOR HEATING, AIR-CONDITIONING, AND REFRIGERATING EQUIPMENT. GROUND-FAULT PROTECTION: INTEGRALLY MOUNTED RELAY AND TRIP UNIT WITH ADJUSTABLE
- PICKUP AND TIME-DELAY SETTINGS. PUSH-TO-TEST FEATURE, AND GROUND-FAULT INDICATOR. SHUNT TRIP: 120-V TRIP COIL ENERGIZED FROM SEPARATE CIRCUIT, SET TO TRIP AT 75 PERCENT OF
- RATED VOLTAGE. 5. TANDEM CIRCUIT BREAKERS ARE NOT PERMITTED.
- 6. PROVIDE CIRCUIT BREAKERS U.L LISTED AS TYPE GFEPCI FOR ALL SELF REGULATING HEATING (SNOW MELTING AND HEAT TRACE) CABLES BRANCH CIRCUITS. PROVIDE LOCK ON DEVICES FOR CIRCUIT BREAKERS WHEN CALLED OUT ON PANEL SCHEDULES WITH
- "LOD" DESIGNATION AND WHERE REQUIRED FOR FIRE ALARM BRANCH CIRCUITS. 8. PROVIDE GROUND FAULT INTERRUPT 5MA CIRCUIT BREAKER WHEN CALLED OUT ON PANEL
- SCHEDULES. 9. PROVIDE SHUNT TRIP BREAKERS WHEN CALLED OUT ON PANEL SCHEDULES.

#### <u>LIGHTING</u>

- A. PROVIDE LIGHTING FIXTURES AS INDICATED ON DRAWINGS. B. INSTALL DRIVERS/BALLASTS, AND SPECIFIED ACCESSORIES AT FACTORY. FOR FIXTURES CONTAINING LAMPS, INSTALL ON PROJECT SITE AFTER FIXTURE INSTALLATION.
- C. FIXTURES SET LEVEL, PLUMB, AND SQUARE WITH CEILINGS AND WALLS. INSTALL LAMPS IN EACH FIXTURE WHERE REQUIRED.
- D. SUPPORT LUMINARIES INDEPENDENT OF CEILING FRAMING. SUPPORT RECESSED GRID LUMINARIES FROM TWO OPPOSITE CORNERS DIRECTLY TO STRUCTURE. WIRE OR ROD SHALL HAVE BREAKING STRENGTH OF THE WEIGHT OF FIXTURE AT A SAFETY FACTOR OF 3.
- E. INSTALL RECESSED LUMINARIES TO PERMIT REMOVAL FROM BELOW.
- INSTALL RECESSED LUMINARIES USING ACCESSORIES AND FIRE STOPPING MATERIALS TO MEET REGULATORY REQUIREMENTS FOR FIRE RATING.
- G. INSTALL SURFACE MOUNTED LUMINARIES AND EXIT SIGNS PLUMB AND ADJUST TO ALIGN WITH BUILDING LINES AND WITH EACH OTHER. SECURE TO PROHIBIT MOVEMENT.
- H. TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS ACCORDING TO MANUFACTURER'S PUBLISHED TORQUE-TIGHTENING VALUES. IF MANUFACTURER'S TORQUE VALUES ARE NOT INDICATED, USE THOSE SPECIFIED IN UL 486A AND UL 4868.
- I. MAKE WIRING CONNECTIONS TO BRANCH CIRCUIT USING BUILDING WIRE WITH INSULATION SUITABLE FOR TEMPERATURE CONDITIONS WITHIN LUMINAIRE
- J. BOND PRODUCTS AND METAL ACCESSORIES TO BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTOR. K. CONNECT LUMINARIES TO BRANCH CIRCUIT OUTLET BOXES PROVIDED UNDER RACEWAYS AND BOXES SECTION USING 1/2" FLEXIBLE CONDUIT OF NO MORE THAN 6'-0" IN LENGTH.
- L. CLEAN ELECTRICAL PARTS TO REMOVE CONDUCTIVE AND DELETERIOUS MATERIALS.
- M. REMOVE DIRT AND DEBRIS FROM ENCLOSURES AND LENSES.
- N. CLEAN PHOTOMETRIC CONTROL SURFACES AS RECOMMENDED BY MANUFACTURER.
- O. CLEAN FINISHES AND TOUCH UP DAMAGE.
- P. EACH LED LUMINAIRE TYPE SHALL BE BINNED WITHIN A THREE-STEP MACADAM ELLIPSE TO ENSURE COLOR CONSISTENCY AMONG LUMINAIRES AND CONTAIN INTERNAL DRIVER UNLESS NOTED OTHERWISE.

RACEWAYS AND BOXES

- A. SURFACE METAL RACEWAYS; GALVANIZED STEEL WITH SNAP-ON COVERS. FINISH WITH MANUFACTURER'S STANDARD PRIME COATING. WIREMOLD OR EQUAL SIZE/TYPE AS SHOWN ON DRAWINGS.
- B. MINIMUM RACEWAY SIZE 3/4-INCH TRADE SIZE
- C. INSTALL CONDUIT IN ACCORDANCE WITH NECA "NATIONAL ELECTRICAL INSTALLATION STANDARDS".
- D. ROUTE CONDUITS IN FINISHED AREAS WITH EXPOSED CEILINGS AT UNDERSIDE OF STRUCTURAL DECK OR AS HIGH AS POSSIBLE. WHERE STEEL METAL DECK ON STEEL JOIST CONSTRUCTION, ROUTE CONDUITS ABOVE JOISTS. DO NOT SECURE CONDUIT TO BOTTOM OF JOISTS.
- [RACEWAY APPLICATIONS REFER TO RACEWAY APPLICATIONS SCHEDULE ON SHEET E0.2.]
- F. FITTINGS FOR EMT: STEEL COMPRESSION TYPE

#### FIRE ALARM

A. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE EXTENSION OF EXISTING SYSTEM.

B. PERFORMANCE REQUIREMENTS:

WHICHEVER IS LESS.

- DESIGN AND INSTALLATION OF NEW DEVICES ONTO AN EXISTING FIRE ALARM SYSTEM. THE COMPLETE FUNCTIONAL SYSTEM SHALL MEET THE REQUIREMENTS OF THIS SPECIFICATION, APPLICABLE CODES, AND AUTHORITIES HAVING JURISDICTION (AHJ) REQUIREMENTS.
- COMPLY WITH NFPA 72. PROVIDE DEVICE LOCATIONS AND RATINGS AS REQUIRED TO MEET THE REQUIREMENTS OF THE AHJ AND ALL APPLICABLE CODES.
- 4. FIRE ALARM SYSTEM VENDOR SHALL PROVIDE SOUND PRESSURE LEVEL CALCULATIONS DEMONSTRATING COMPLIANCE WITH NFPA 72 AND ESTABLISH QUANTITIES AND TAP SETTINGS OF AUDIBLE DEVICES
- 5. NO ADDITIONAL CHARGE FOR FIRE ALARM DEVICES WILL BE ALLOWED UNLESS SPACE DEFINITION, USE OR CONSTRUCTION IS SUBSTANTIALLY REVISED.

C. NOTIFICATION APPLIANCES: EQUIPPED FOR MOUNTING AS INDICATED AND WITH SCREW TERMINALS FOR SYSTEM CONNECTIONS MATCH EXISTING DEVICES OF SAME TYPE.

- 8. AUDIBLE ALARM-INDICATING DEVICES INSTALL AT 96" AFF OR 6 INCHES (150 MM) BELOW THE CEILING, WHICHEVER IS LESS. INSTALL BELLS AND HORNS ON FLUSH-MOUNTED BACK BOXES WITH THE DEVICE-OPERATING MECHANISM CONCEALED BEHIND A GRILLE. 9. VISIBLE ALARM-INDICATING DEVICES: INSTALL AT 96" AFF OR 6 INCHES (150 MM) BELOW THE CEILING,
- D. ADDRESSABLE CONTROL MODULE PROVIDE FOR INTEGRATION OF AUXILIARY CONTROL FUNCTIONS INTO THE ANALOG SIGNALING CIRCUIT. INTELLIGENT ANALOG SIGNALING CIRCUIT CONTROL WITH COMMUNICATION INTERACTION WITH THE ANALOG SIGNALING CIRCUIT HAVING THE CAPABILITY OF INITIATING A CONTROL FUNCTION TO AN AUXILIARY DEVICE BASED ON A SPECIFIED EVENT AND NO/NC CONTACT PAIRS RATED AT 2 AMPS 120 VAC OR 24 VDC.

E. WIRE AND CABLE WIRE AND CABLE FOR FIRE ALARM SYSTEMS SHALL BE UL LISTED AND LABELED AS COMPLYING WITH NFPA 70, ARTICLE 760.

- 1. SIGNALING LINE CIRCUITS: TWISTED, SHIELDED PAIR, SIZE AS RECOMMENDED BY SYSTEM MANUFACTURER.
- 2. NON-POWER-LIMITED CIRCUITS: SOLID-COPPER CONDUCTORS WITH 600-V RATED, 75 DEG C, COLOR-CODED INSULATION. LOW-VOLTAGE CIRCUITS: NO. 16 AWG, MINIMUM. LINE-VOLTAGE CIRCUITS: NO. 12 AWG MINIMUM.
- INSTALL WIRING ACCORDING TO NECA 1 AND TIA/EIA 568-A 4. FIRE ALARM CIRCUITS AND EQUIPMENT CONTROL WIRING ASSOCIATED WITH THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN A DEDICATED RACEWAY SYSTEM IN AREAS OF EXPOSED CONSTRUCTION.

[PLENUM RATED CABLE IS ALLOWED ABOVE CONCEALED, ACCESSIBLE CEILINGS.] (Not allowed in Phx) F. SUBMIT FIRE ALARM DRAWINGS AND DOCUMENTATION TO THE AUTHORITIES HAVING JURISDICTION AND THE ARCHITECT/ENGINEER.

G. INSTALLER QUALIFICATIONS: PERSONNEL CERTIFIED BY NICET AS FIRE ALARM LEVEL II

H. INTERRUPTION OF EXISTING FIRE ALARM SERVICE: DO NOT INTERRUPT FIRE ALARM SERVICE TO FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY GUARD SERVICE ACCORDING TO REQUIREMENTS INDICATED. NOTIFY ARCHITECT, OWNER OR CONSTRUCTION MANAGER NO FEWER THAN SEVEN DAYS IN ADVANCE OF PROPOSED INTERRUPTION OF FIRE ALARM SERVICE DO NOT PROCEED WITH INTERRUPTION OF FIRE ALARM SERVICE WITHOUT OWNER'S WRITTEN PERMISSION

EXISTING FIRE ALARM EQUIPMENT: MAINTAIN FULLY OPERATIONAL UNTIL NEW EQUIPMENT HAS BEEN TESTED AND ACCEPTED. AS NEW EQUIPMENT IS INSTALLED, LABEL IT "NOT IN SERVICE" UNTIL IT IS ACCEPTED. REMOVE LABELS FROM NEW EQUIPMENT WHEN PUT INTO SERVICE AND LABEL EXISTING FIRE ALARM EQUIPMENT "NOT IN SERVICE" UNTIL REMOVED FROM THE BUILDING.

FIRE ALARM SYSTEM AND COMPONENTS SHALL OPERATE AS AN EXTENSION OF AN EXISTING SYSTEM. ALL NEW DEVICES SHALL BE SUITABLE AND LISTED WITH EXISTING FIRE ALARM CONTROL PANEL.

K. CONNECTING TO EXISTING EQUIPMENT: VERIFY THAT EXISTING FIRE ALARM SYSTEM IS OPERATIONAL BEFORE MAKING CHANGES OR CONNECTIONS.

PERFORM BATTERY CALCULATIONS AND PROVIDE NECESSARY EQUIPMENT WHERE EXISTING BATTERIES WILL NOT SUPPORT ADDITION OF NEW DEVICES INDICATED ON DRAWINGS.

ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO INSPECT EST, AND ADJUST FIELD-ASSEMBLED COMPONENTS AND EQUIPMENT INSTALLATION, INCLUDING CONNECTIONS, AND TO ASSIST IN FIELD TESTING. REPORT RESULTS IN WRITING.

N. TEST AND INSPECTION RECORDS: PREPARE ACCORDING TO NFPA 72. INCLUDING DEMONSTRATION OF SEQUENCES OF OPERATION BY USING THE MATRIX-STYLE FORM IN APPENDIX A IN NFPA 7.

O. CERTIFY FIRE ALARM SYSTEM UPON COMPLETION OF INSTALLATION AND TESTING.

#### **TELECOMMUNICATIONS**

A. ALL INSTALLATIONS, EQUIPMENT AND MATERIALS SHALL BE PROVIDED IN COMPLIANCE WITH THE CURRENT LAWS AND REGULATIONS OF WSU CAMPUS, BUILDING INDUSTRY CONSULTING SERVICES INTERNATIONAL (BIOS), NEC, THE INTERNATIONAL BUILDING CODE (IBC), COMMUNICM10NS STANDARDS PUBLISHED BY TIA/EIA, AND ALL OTHER APPLICABLE CODES.

THE CONTRACTOR SHALL INSURE THAT THE MANUFACTURER PULL TENSIONS AND MINIMUM BENDING RADIUS OF THE CABLES BEING INSTALLED ARE NOT EXCEEDED AT ANY TIME DURING INSTALLATION.

C. 1" CONDUIT SHALL BE RUN TO THE CLOSEST CABLE TRAY IN THE DIRECTION OF THE IDF ROOM.

D. ALL BENDS WILL BE LONG, SWEEPING BENDS WITH A RADIUS NOT LESS THAN: SIX TIMES THE INTERNAL DIAMETER OF CONDUITS 2 INCHES OR SMALLER.

TEN TIES THE INTERNAL DIAMETER OF CONDUITS LARGER THAN 2 INCHES. E. ENSURE THAT THE HORIZONTAL CABLE BEND RADIUS IS NO LESS THAN FOUR (4) TIMES THE CABLE DIAMETER

F. THE AMOUNT OF UNTWISTING MUST NOT EXCEED 13mm (0.5 INCHES) FOR ALL CAT CABLES.

G. ENSURE THAT THERE IS A MINIMUM OF 10' OF SLACK AT THE IDF.

H. ENSURE THAT THERE IS A MINIMUM OF 12' OF SLACK AT THE WORK AREA OUTLET.

I. IDENTIFY CABLES AT EACH END WITH PERMANENT ALPHANUMERIC LABELS PER OWNER STANDARDS.

J. WHERE CABLE TRAY IS NOT ACCESSIBLE, SUPPORT NEW CABLING SYSTEM USING J-HOOKS.

K. TELECOMMUNICATIONS JACKS SHALL MEET OWNER'S STANDARDS.

L. CAT CABLING SHALL MEET OWNER STANDARDS.

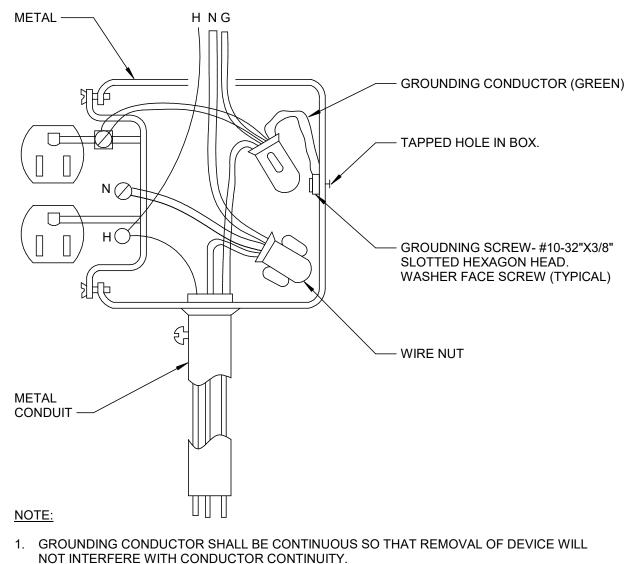
M. COLOR CODING SHALL MEET OWNER'S STANDARDS.

N. DATA OUTLETS SHALL MEET OWNER'S STANDARDS.

END STUDIO, LLC 2000 Brooklyn St. #204 Detroit, MI 48226 313.626.7073 e-n-d-studio.com HESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH MAY NOT BE USED FOR OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR COMPLETION OF THIS PROJECT BY OTHERS. KEY PLAN  $O \vdash$ ΟĽ RS. R СĪ <u>C</u> NO. ISSUE/REV. DATE BID SET 03.13.23 JUSTIN LEE BUTTS License No ELECTRICAL SPECIFICATIO

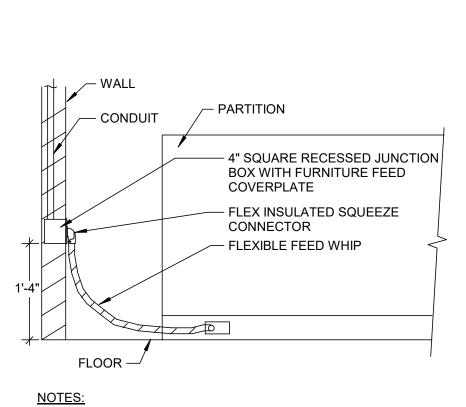


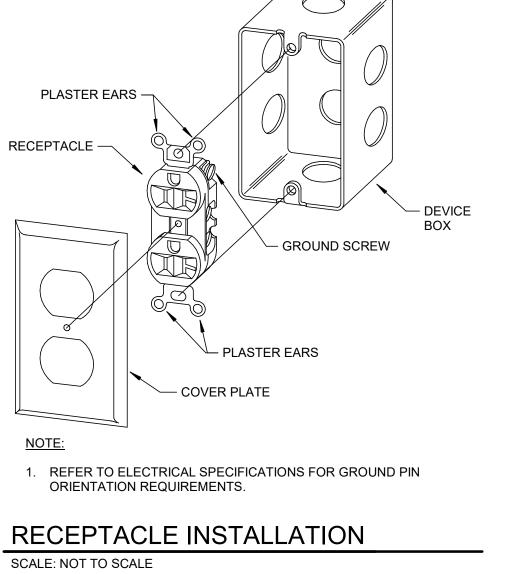


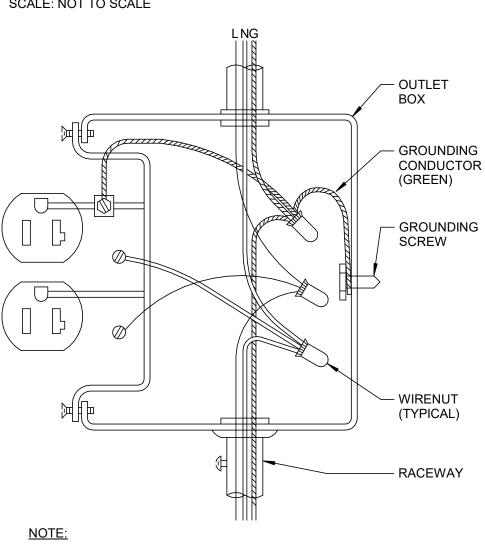


2. REFER TO ELECTRICAL SPECIFICATIONS FOR GROUND PIN ORIENTATION REQUIREMENTS.





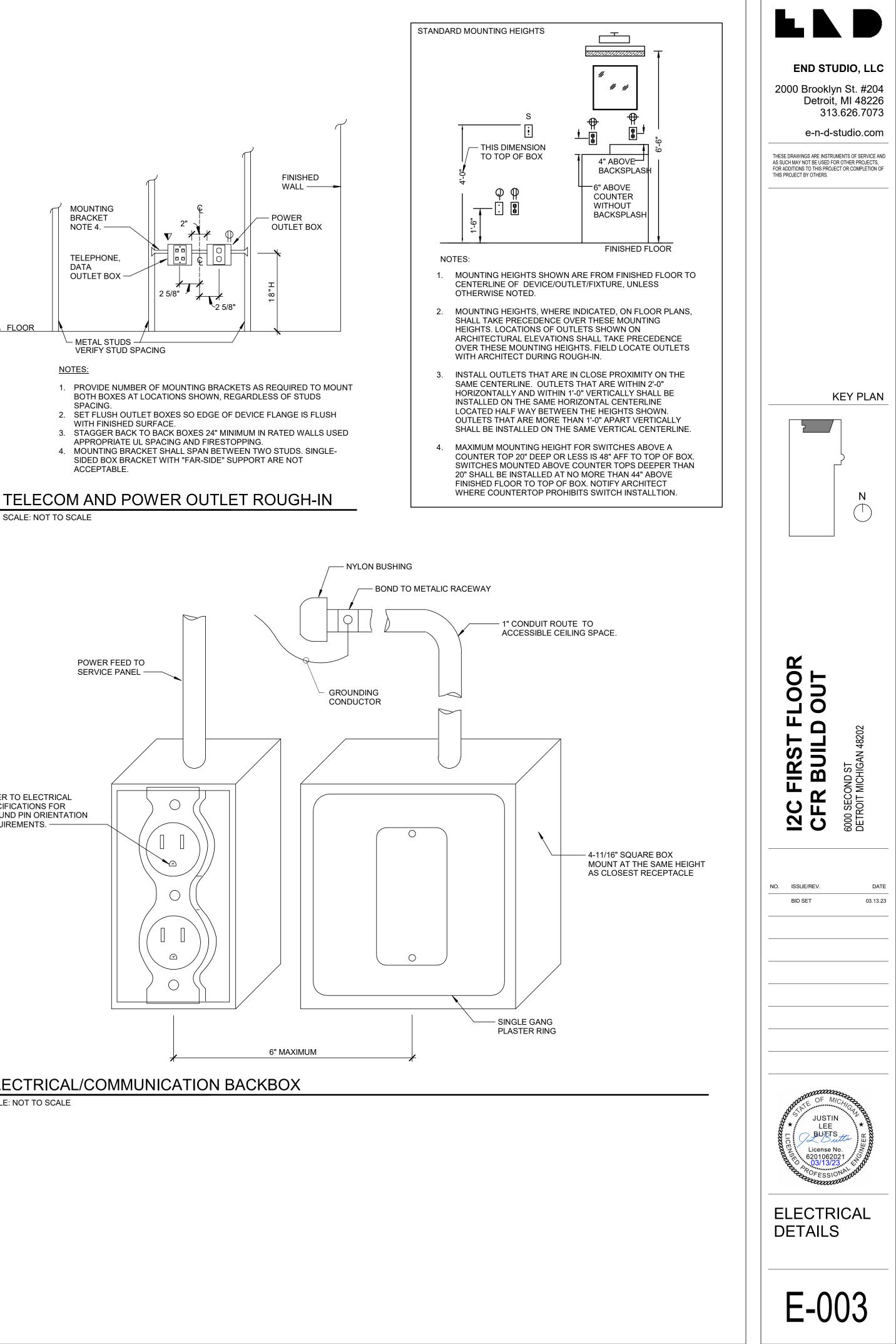




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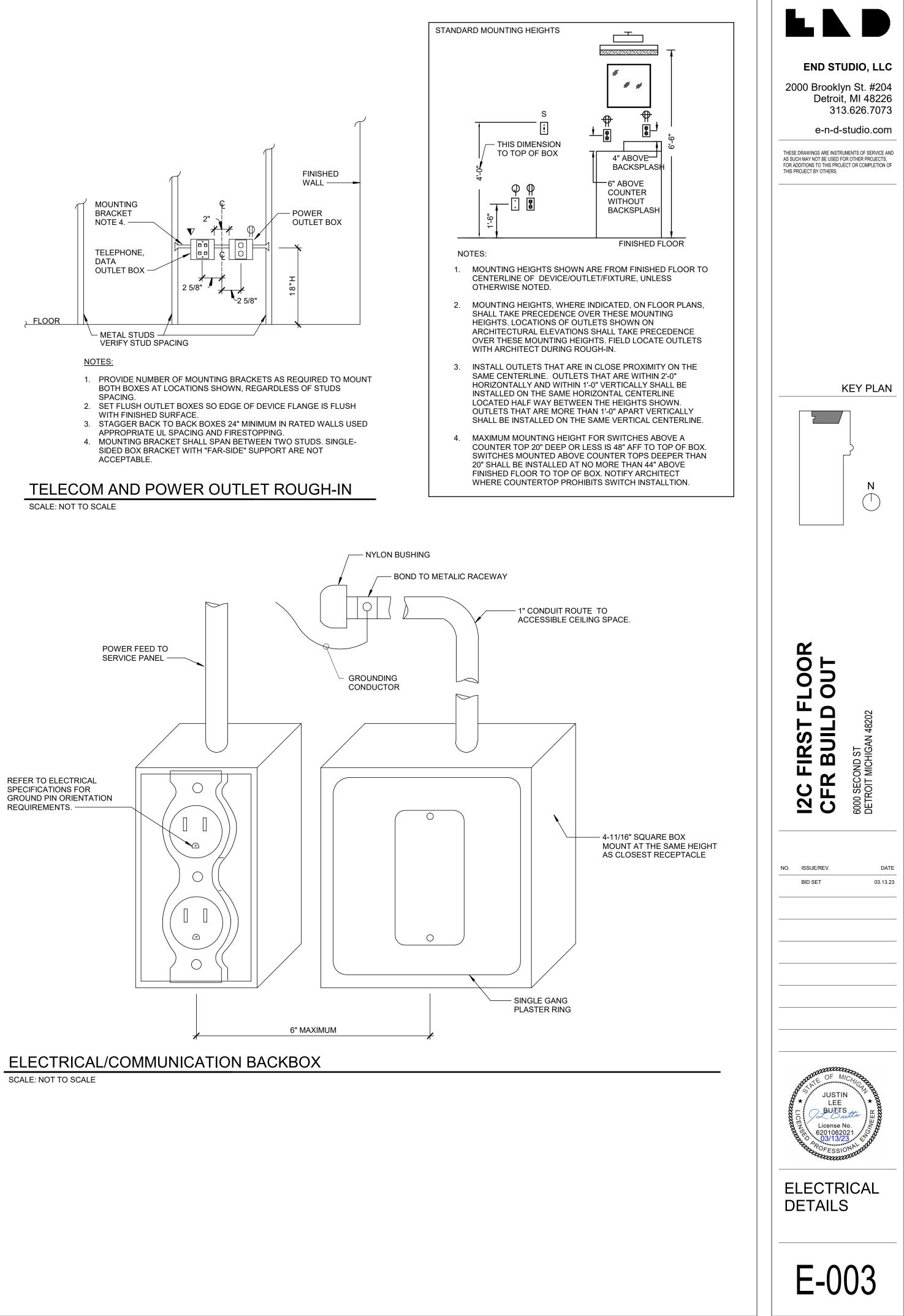
### RECEPTACLE WIRING

SCALE: NOT TO SCALE



### RECEPTACLE GROUNDING

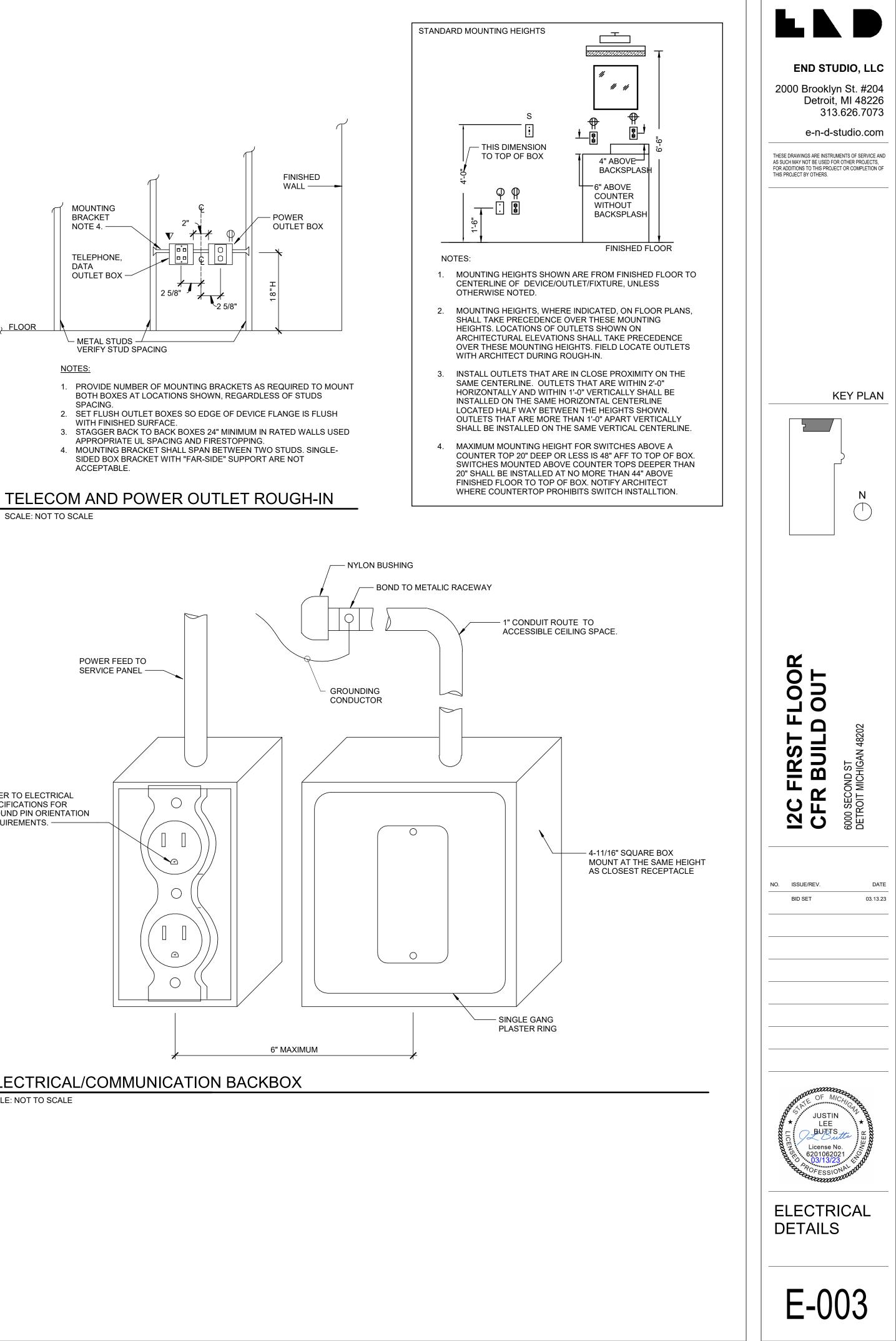
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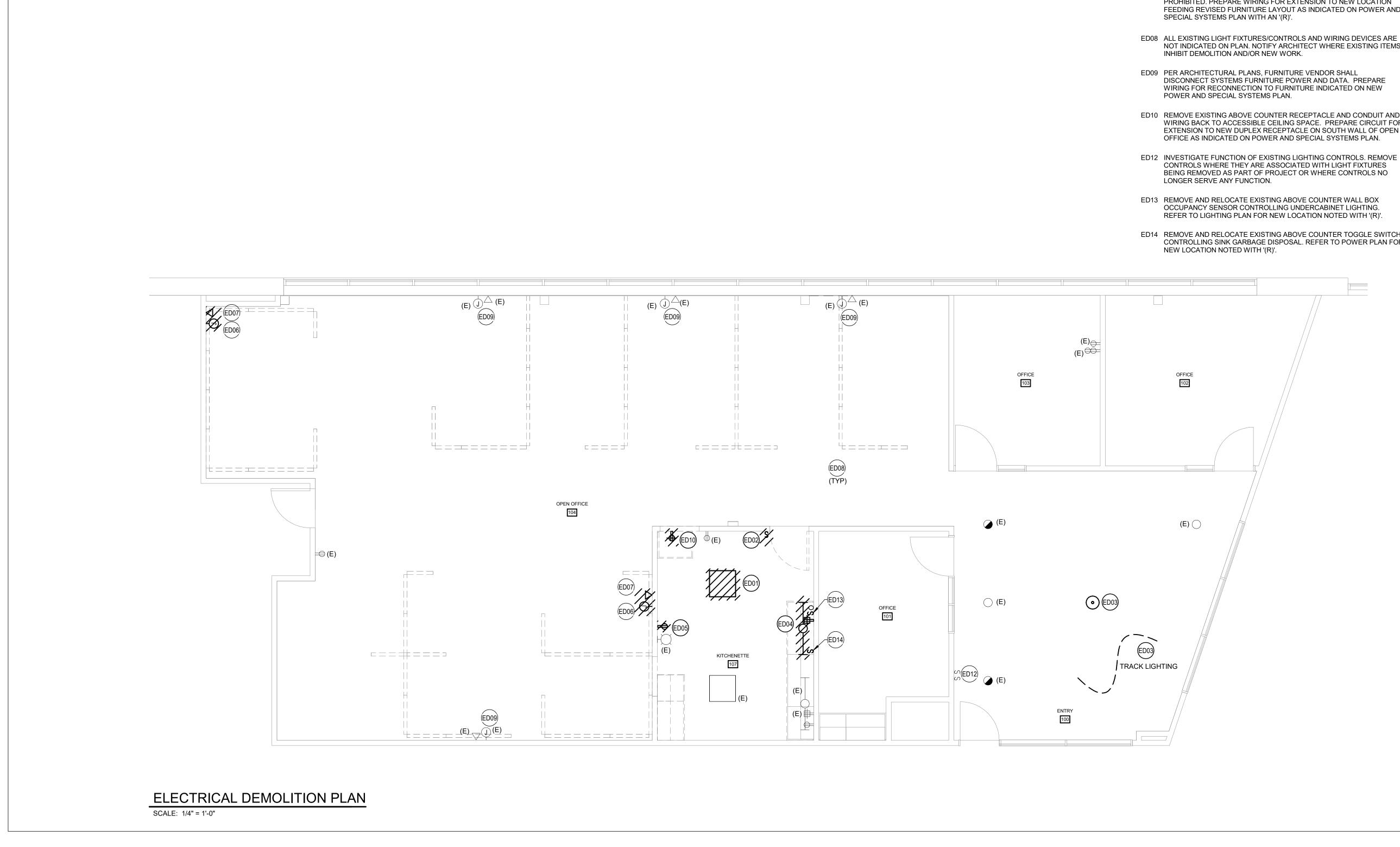
NOTES: 1. PROVIDE CIRCUIT IDENTIFICATION LABEL ON COVERPLATE PER ELECTRICAL SPECIRFICATION.



SCALE: NOT TO SCALE



SCALE: NOT TO SCALE



<u>P</u>	LAN NOTES
ED	01 REMOVE EXISTING LIGHT FIXTURE. PREPARE WORK INDICATED ON LIGHTING PLAN.
ED	2 REMOVE EXISTING LIGHITNG CONTROL. REUS BOX, WIRING, AND CONDUIT TO FEED NEW LIG SPACE AS INDICATED ON LIGHTING PLAN. REV FOR NEW WORK.
ED	03 REMOVE EXISTING LIGHT FIXTURE AND ASSO CONTROL. REMOVE CONDUIT AND WIRING BA NEAREST UPSTREAM TO REMAIN DEVICE.
ED	04 REMOVE EXISTING UNDERCABINET LIGHT. RE WIRING TO ACCOMMODATE EXISTING TO REM LIGHT AND REVISED LIGHTING CONTROLS INE PLAN.
ED	05 REMOVE EXISTING REFRIGERATOR RECEPTA WIRING BACK TO ACCESSIBLE CEILING SPACE EXTENSION TO NEW REFRIGERATOR LOCATIO AND SPECIAL SYSTEMS PLAN.
ED	06 PER ARCHITECTURAL PLANS, FURNITURE VEN DISCONNECT SYSTEMS FURNITURE POWER A EXISTING POWERED FURNITURE FEED JUNCT ASSOCIATED CONDUIT AND WIRING BACK TO SPACE. PREPARE CIRCUITS FOR EXTENSION FEEDING REVISED FURNITURE LAYOUT AS INI SPECIAL SYSTEMS PLAN WITH AND '(R)'.
ED	07 DATA OUTLET CONSISTS OF GROMMETED FAU CABLES TO PASS THROUGH TO SYSTEMS FUF ARCHITECTURAL PLANS, FURNITURE VENDOF SYSTEMS FURNITURE POWER AND DATA. REM FURNITURE FEED JUNCTION BOX AND ASSOC WIRING BACK TO ACCESSIBLE CEILING SPACE OF REQUIRED LENGTH IS ACCEPTABLE. OTHE BACK TO SOURCE AND PROVIDE NEW. SPLICE PROHIBITED. PREPARE WIRING FOR EXTENSION FEEDING REVISED FURNITURE LAYOUT AS INT SPECIAL SYSTEMS PLAN WITH AN '(R)'.
ED	08 ALL EXISTING LIGHT FIXTURES/CONTROLS AN NOT INDICATED ON PLAN. NOTIFY ARCHITECT INHIBIT DEMOLITION AND/OR NEW WORK.
ED	09 PER ARCHITECTURAL PLANS, FURNITURE VEN DISCONNECT SYSTEMS FURNITURE POWER A WIRING FOR RECONNECTION TO FURNITURE POWER AND SPECIAL SYSTEMS PLAN.
ED	10 REMOVE EXISTING ABOVE COUNTER RECEPT WIRING BACK TO ACCESSIBLE CEILING SPACE EXTENSION TO NEW DUPLEX RECEPTACLE OF OFFICE AS INDICATED ON POWER AND SPECE
ED	12 INVESTIGATE FUNCTION OF EXISTING LIGHTIN CONTROLS WHERE THEY ARE ASSOCIATED W BEING REMOVED AS PART OF PROJECT OR W LONGER SERVE ANY FUNCTION.
ED	13 REMOVE AND RELOCATE EXISTING ABOVE CO OCCUPANCY SENSOR CONTROLLING UNDER REFER TO LIGHTING PLAN FOR NEW LOCATIO
ED	14 REMOVE AND RELOCATE EXISTING ABOVE CO CONTROLLING SINK GARBAGE DISPOSAL. REF NEW LOCATION NOTED WITH '(R)'.

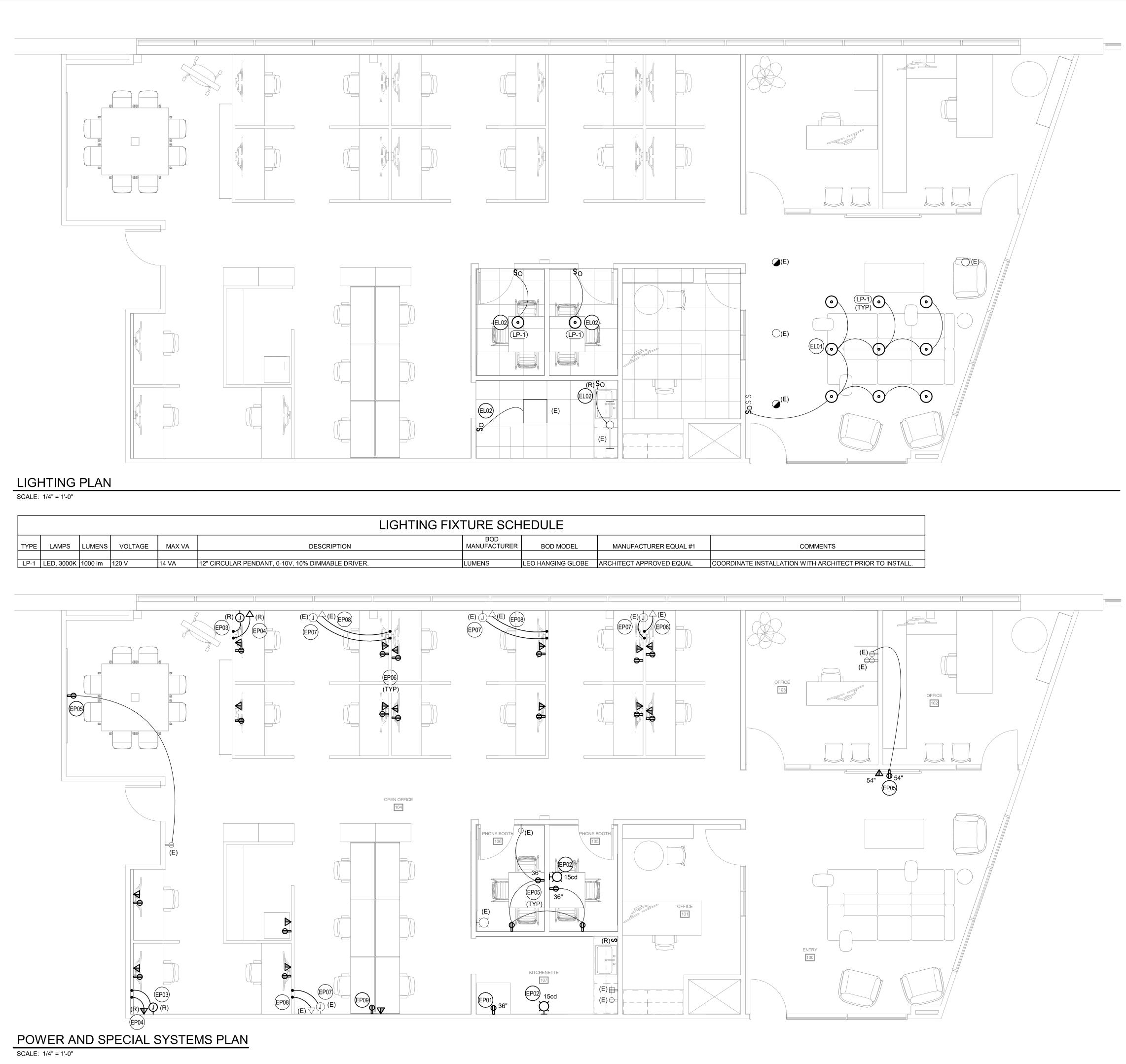
ARE EXISTING CIRCUIT FOR

- USE EXISTING JUNCTION LIGHTING IN REVISED REVISE CIRCUIT AS NEEDED
- SOCIATED LIGHTING BACK TO SOURCE OR
- REVISE CONDUIT AND EMAIN UNDERCABINET INDICATED ON LIGHTING
- FACLE AND CONDUIT AND ACE. PREPARE CIRCUIT FOR TION INDICATED ON POWER
- /ENDOR SHALL R AND DATA. REMOVE ICTION BOX AND TO ACCESSIBLE CEILING ON TO NEW LOCATION INDICATED ON POWER AND
- FACEPLATE TO ALLOW DATA URNITURE. PER OR SHALL DISCONNECT REMOVE EXISTING DATA OCIATED CONDUIT AND ACE. REUSING DATA WIRING HERWISE, REMOVE WIRING ICED DATA WIRING IS ISION TO NEW LOCATION INDICATED ON POWER AND
- ECT WHERE EXISTING ITEMS
- R AND DATA. PREPARE RE INDICATED ON NEW
- PTACLE AND CONDUIT AND ACE. PREPARE CIRCUIT FOR ON SOUTH WALL OF OPEN CIAL SYSTEMS PLAN.
- ITING CONTROLS. REMOVE WITH LIGHT FIXTURES WHERE CONTROLS NO
- RCABINET LIGHTING. TION NOTED WITH '(R)'.
- COUNTER TOGGLE SWITCH REFER TO POWER PLAN FOR

#### **GENERAL NOTES - DEMOLITION**

- A. DEMOLITION, WHERE INDICATED ON PLAN, IS BASED ON EXISTING DRAWINGS AND LIMITED FIELD INVESTIGATION OF EXISTING CONDITIONS. SELECT DEMOLITION MAY BE REQUIRED FOR NEW CONSTRUCTION AND MAY NOT BE DELINEATED ON THIS DRAWING. CAREFULLY COORDINATE DEMOLITION WITH NEW CONSTRUCTION PLANS OF ALL DISCIPLINES TO VERIFY ACTUAL EXTENT OF DEMOLITION. VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND FULLY UNDERSTAND THE EXTENT OF DEMOLITION WORK.
- B. EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.
- C. QUANTITY AND LOCATION OF EXISTING DEVICES SHOWN ON PLANS ARE APPROXIMATE. FIELD VERIFY DEVICES AND LOCATIONS.
- D. ITEMS SHOWN HEAVY LINE WEIGHT DASHED LINES, HATCHED AND/OR NOTED SHALL BE DEMOLISHED AND ALL ASSOCIATED DEVICES, CONDUIT, AND WIRING SHALL BE REMOVED BACK TO THE NEAREST ACTIVE JUNCTION BOX OR SOURCE UNLESS NOTED OTHERWISE. SEE DEMOLITION LEGEND FOR ADDITIONAL INFORMATION.
- E. ALL EXISTING EQUIPMENT MAY NOT BE INDICATED. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING. EXISTING ITEMS NOT SHOWN HATCHED SHALL REMAIN IN OPERATION. REVISE THE EXISTING CIRCUITRY TO MAINTAIN OPERATION OF ITEMS TO REMAIN.
- F. PROVIDE PROPER SUPPORT FOR EXISTING TO REMAIN CONDUITS AND BOXES WHERE EXISTING SUPPORT IS TO BE REMOVED. RE-ROUTE BRANCH CIRCUIT CONDUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.
- G. COORDINATE WITH NEW WORK PLANS, ONE LINE DIAGRAM\$ AND RISER DIAGRAMS FOR EXTENT OF DEMOLITION WORK.
- H. CIRCUITING SHOWN IS BASED ON CASUAL FIELD OBSERVATIONS AND/OR AS-BUILT DRAWINGS. CONTRACTOR SHALL FIELD VERIFY CIRCUITING.
- MAINTAIN ELECTRICAL SERVICE TO ALL LIGHTING FIXTURES, DEVICES AND EQUIPMENT THAT ARE TO REMAIN. EXTEND CONDUIT AND WIRE AS REQUIRED WHERE DEMOLITION WORK AFFECTS ELECTRICAL SERVICE TO DOWNSTREAM LOADS THAT ARE TO REMAIN.
- RECYCLE OR DISPOSE OF ALL MATERIALS OFF SITE AND INCLUDE ALL ASSOCIATED COSTS IN BID. ALL MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, INCLUDING LEED REQUIREMENTS, TCLP TESTING, PROPER DISPOSAL AND/OR RECYCLING OF FLUORESCENT LAMPS.
- K. PROVIDE BLANK COVER PLATES WHERE DEVICES ARE REMOVED BUT EXISTING WALLS/CEILINGS REMAIN INTACT.
- RING OUT AND TAG ALL CIRCUITS AFFECTED BY THIS ALTERATION AT BOTH ENDS. MARK ALL UNUSED CIRCUIT BREAKERS "SPARE" AND PLACE IN THE "OFF" POSITION.
- M. VERIFY ALL UNDERGROUND AND IN SLAB UTILITY LOCATIONS PRIOR TO SAW-CUTTING OR PENETRATING ANY FLOOR SLAB.
- N. OFFER OWNERS REPRESENTATIVE FIRST RIGHT OF REFUSAL OF ALL EQUIPMENT REMOVED FROM SPACE.
- O. PROVIDE CODE-COMPLIANT SUPPORT TO EXISTING-TO-REMAIN UNSUPPORTED CONDUITS AND BOXES WHERE CEILINGS ARE TO BE REMOVED. RE-ROUTE BRANCH CIRCUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.
- P. EXISTING 120V POWER CIRCUITS IN AREA OF RENOVATION ARE ASSUMED TO BE FED FROM PANELBOARD 'RP-2' LOCATED IN ELECTRICAL ROOM 114 APPROXIMATED 20' SOUTH OF THE NEW KITCHENETTE SOUTH WALL.
- Q. EXISTING 277V LIGHTING CIRCUITS IN AREA OF RENOVATION ARE ASSUMED TO BE FED FROM PANELBOARD 'LP-1' LOCATED ON THE UPPER MEZZANINE APPROXIMATELY 200' SOUTH OF THE NEW KITCHENETTE SOUTH WALL.
- R. EXISTING TELE/DATA OUTLETS IN AREA OF RENOVATION ARE ASSUMED TO BE FED FROM I/T EQUIPMENT LOCATED IN STORAGE CLOSET 122 APPROXIMATELY 40' SOUTH OF THE NEW KITCHENETTE SOUTH WALL.





DULE					
BOD MODEL	MANUFACTURER EQUAL #1	COMMENTS			
O HANGING GLOBE	ARCHITECT APPROVED EQUAL	COORDINATE INSTALLATION WITH ARCHITECT PRIOR TO INSTALL.			

### **GENERAL NOTES - LIGHTING**

- A. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES UNLESS NOTED OTHERWISE.
- B. REFER TO THE LIGHT FIXTURE SCHEDULE ON THIS SHEET.
- C. ELECTRICAL DEVICES INDICATED ON THIS PLAN SHALL BE NEW UNLESS NOTED OTHERWISE.
- D. LIGHT SWITCHES SHALL BE GROUPED UNDER ONE COMMON FACEPLATE WHERE MORE THAN ONE LIGHT SWITCH IS INDICATED TO BE INSTALLED AT THE SAME LOCATION.
- E. EXISTING LIGHTING INDICATED TO REMAIN SHALL BE RELAMPED AND CLEANED. REPAIR EXISTING FIXTURES THAT ARE MALFUNCTIONING WHERE FEASIBLE. OTHERWISE REPLACE WITH NEW. REVISE CIRCUITING AS INDICATED.
- F. LIGHTING BRANCH CIRCUIT WIRING ASSOCIATED WITH NEW LIGHTING SHALL BE 2#12, 1#12GND IN 3/4"C UNLESS NOTED OTHERWISE.
- G. EXISTING EQUIPMENT/DEVICES NOT SPECIFICALLY INDICATED TO BE DEMOLISHED SHALL REMAIN OPERATIONAL. REVISE EXISTING CIRCUITING TO MAINTAIN OPERATION TO SUCH EQUIPMENT/DEVICES AS REQUIRED.
- H. REUSE THE EXISTING BRANCH CIRCUIT CONDUIT AND WIRING ASSOCIATED WITH THE LIGHTING FIXTURES REMOVED DURING DEMOLITION THAT IS LEFT IN PLACE TO REFEED NEW LIGHTING FIXTURES UNLESS NOTED OTHERWISE. REWORK THE EXISTING CIRCUIT TO PROVIDE LIGHTING CONTROL AS INDICATED ON THIS DRAWING, UNLESS NOTED OTHERWISE. REMOVED CONDUIT AND WIRING SHALL BE DISPOSED.
- I. EXISTING LIGHTING INDICATED AS TO REMAIN AND LOCATED IN AREAS WHERE THE CEILING IS BEING MODIFIED SHALL BE TEMPORARILY SUPPORTED AND REINSTALLED UPON COMPLETION OF CEILING REVISIONS. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ARCHITECTURAL TRADE.
- K. CONDUITS INSTALLED IN FINISHED AREAS SHALL BE ROUTED CONCEALED UNLESS NOTED OTHERWISE.

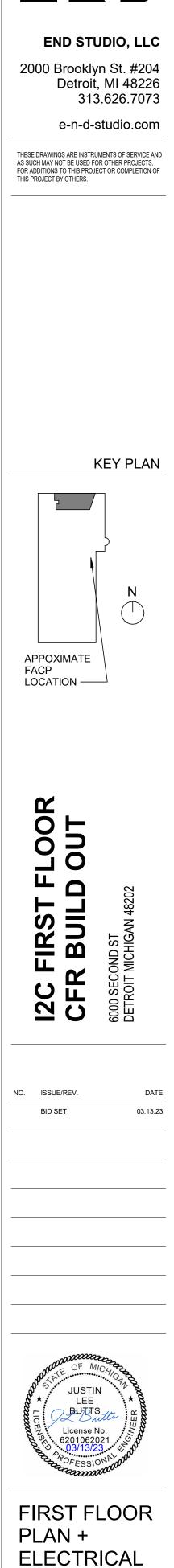
### **GENERAL NOTES - POWER**

- A. REFER TO ARCHITECTURAL FLOOR PLAN AND ELEVATIONS FOR EXACT LOCATION OF DEVICES WHERE INDICATED.
- B. RECEPTACLE OUTLETS SHALL BE RATED 20A U.O.N..
- C. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE U.O.N..
- D. PROVIDE GFCI PROTECTION WHERE REQUIRED BY THE NEC WHETHER INDICATED OR NOT.
- E. BRANCH CIRCUIT JUNCTION BOXES SHALL BE LABELED WITH THE CIRCUITS ENCLOSED.
- F. SINGLE PHASE 20A BRANCH CIRCUIT WIRING SHALL BE 2#12, 1#12GND IN 3/4"C UNLESS NOTED OTHERWISE.
- G. EXISTING EQUIPMENT/DEVICES NOT SPECIFICALLY INDICATED TO BE DEMOLISHED SHALL REMAIN OPERATIONAL. REVISE EXISTING CIRCUITING TO MAINTAIN OPERATION TO SUCH EQUIPMENT/DEVICES AS REQUIRED.
- H. CONDUITS SHALL BE ROUTED CONCEALED UNLESS NOTED OTHERWISE.

#### PLAN NOTES

- EL01 CONNECT NEW PENDANT LIGHTS TO EXISTING 120V GENERAL RECEPTACLE CIRCUIT SERVING AREA VIA NEW DIMMER LIGHTING CONTROL INDICATED.
- EL02 UTILIZE EXISTING LIGHTING CIRCUIT IN ROOM TO CONNECT NEW LIGHT FIXTURE TO NEW/RELOCATED CONTROLS AS INDICATED. NEW WALLBOX OCCUPANCY SENSOR TO MATCH EXISTING RELOCATED DEVICE CONTROLLING UNDERCABINET LIGHTS.
- EP01 CONNECT NEW REFRIGERATOR RECEPTACLE TO DEDICATED REFRIGERATOR CIRCUIT LEFT OVER FROM DEMOLITION.
- EP02 CONNECT NEW FIRE ALARM NOTIFICATION APPLIANCE TO EXISTING FIRE ALARM SYSTEM. NEW DEVICE SHALL MATCH EXISTING DEVICES IN SPACE. EXISTING FIRE ALARM CONTROL PANEL IS LOCATED APPROXIMATELY 200' AWAY IN EAST LOBBY ENTRANCE.
- EP03 CONNECT RELOCATED CIRCUITS LEFT OVER FROM DEMOLITION TO POWERED FURNITURE. VERIFY EXACT CIRCUITS IN FIELD. MULTIPOLE CIRCUIT BREAKERS ARE REQUIRED WHERE CIRCUITS SHARE A NEUTRAL CONDUCTOR. COORDINATE FINAL FURNITURE LAYOUT WITH OWNER/ARCHITECT PRIOR TO ROUGHING IN THE FURNITURE FEED BOX LOCATION. NEW POWER INSTALLATION MATERIALS, MEANS, AND METHODS SHALL MATCH EXISTING.
- EP04 CONNECT DATA CABLING TO SYSTEMS FURNITURE. COORDINATE FINAL FURNITURE LAYOUT WITH OWNER/ARCHITECT PRIOR TO ROUGHING IN THE FURNITURE FEED BOX LOCATION. NEW DATA INSTALLATION MATERIALS, MEANS, AND METHODS SHALL MATCH EXISTING.
- EP05 CONNECT NEW RECEPTACLE TO EXISTING TO REMAIN RECEPTACLE CIRCUIT AS INDICATED.
- EP06 POWER AND DATA OUTLES INDICATED AT SYSTEMS FURNITURE ARE INTEGRAL TO FURNITURE SYSTEM. PROVIDE POWER VIA NEW FURNITURE FEED WHIP AND DATA CABLES/CONNECTIONS TO SYSTEMS FURNITURE PER SYSTEMS FURNITURE MANUFACTURER INSTRUCTIONS. NEW POWER AND DATA INSTALLATION MATERIALS, MEANS, AND METHODS SHALL MATCH EXISTING.
- EP07 CONNECT CIRCUITS LEFT OVER FROM DEMOLITION TO POWERED FURNITURE. VERIFY EXACT CIRCUIT IN FIELD. MULTIPOLE CIRCUIT BREAKERS ARE REQUIRED WHERE CIRCUITS SHARE A NEUTRAL CONDUCTOR. NEW POWER INSTALLATION MATERIALS, MEANS, AND METHODS SHALL MATCH EXISTING.
- EP08 CONNECT DATA CABLING TO SYSTEMS FURNITURE. NEW DATA INSTALLATION MATERIALS, MEANS, AND METHODS SHALL MATCH EXISTING.
- EP09 CONNECT NEW RECEPTACLE TO REMOVED, ABOVE COUNTER RECEPTACLE CIRCUIT LEFT OVER FROM DEMOLITION IN OLD KITCHENETTE.





E-201