Summit Behavioral Healthcare Tenant Infill Remodel 3340 NE Ralph Powell Rd, Lee's Summit, MO 64064

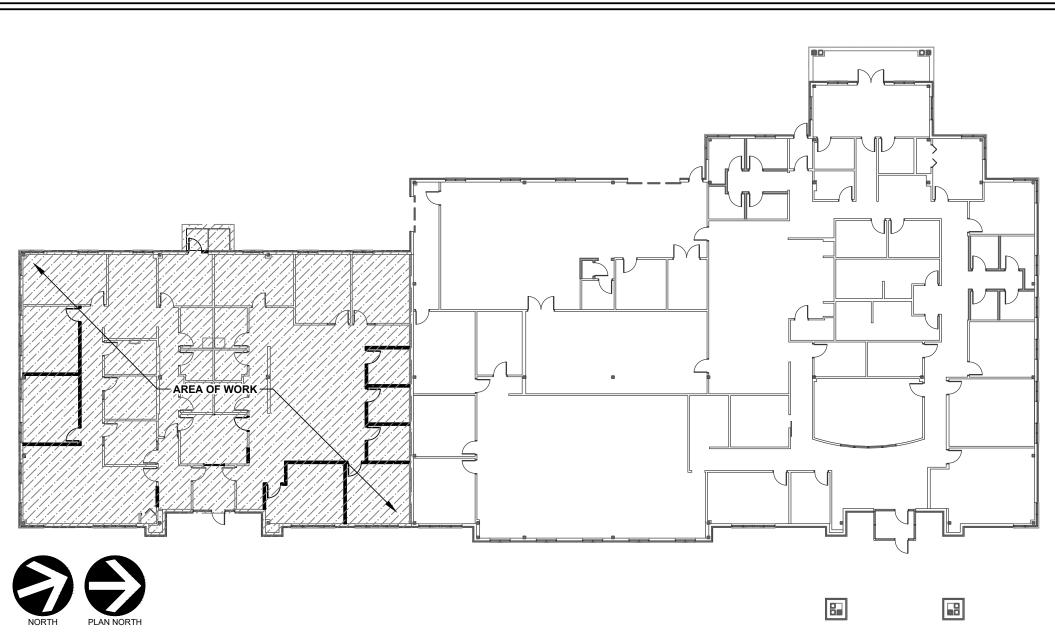
DIRECTORY

CLIENT: Monte Cristo II, LLC 1804 Swift St, Suite 101 North Kansas City, MO, 64116 TEL: (816) 384-2900 **REP:** Nate Prather

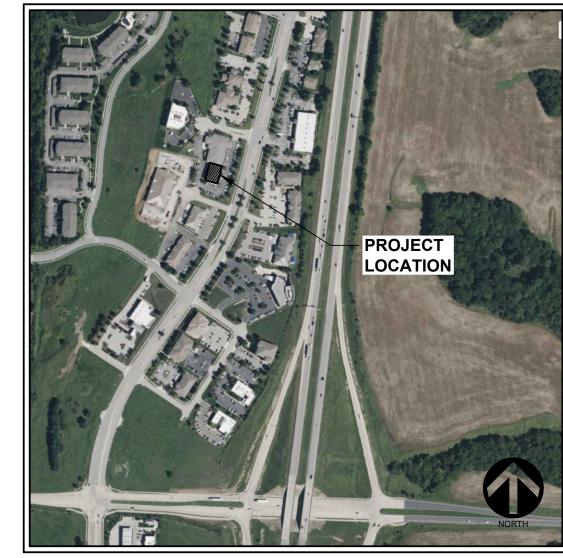
ARCHITECT: [k] Warman Architecture + Design 1735 Swift Ave. North Kansas City, MO, 64116 TEL: (816) 474-2233, FAX: (816) 474-1051 **REP: Kathleen Warman**

MEP ENGINEER: JSC Engineers, PC 24 NW Chipman Rd Lee's Summit, MO, 64063 TEL: (816) 272-5289 **REP: Justin Smothers**

VICINITY PLAN



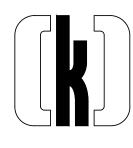
VICINITY MAP



PROJECT GENERAL NOTES

- CONTRACTORS SHALL NOT SCALE THESE DRAWINGS FOR CONSTRUC PURPOSES IN THE EVENT OF OMISSION OF NECESSARY DIMENSIONS OR

- DETAILS OR APPROVED SHOP DRAWINGS / DATA SHEETS IN ACCORDANCE WITH THE PROJECT SPECIFICATION:
- CEILING HEIGHTS SCHEDULED ON THE ROOM FINISH SCHEDULE OR THI
- VERIFY ALL ELEVATIONS AND DIMENSIONS OF STRUCTURAL ELEMENTS WITH ARCHITECTURAL DRAWINGS. IN CASE OF CONFLICT, NOTIFY THE ARCHITECT THE CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR THEM. ALL DIMENSIONAL DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- CONTRACTOR SHALL ADD SUFFICIENT BLOCKING IN STUD WALLS TO SUPPOR ALL ITEMS OR EQUIPMENT SHOWN OR SPECIFIED TO BE ATTACHED TO THE WALLS. PROVIDE ADDITIONAL STRUCTURAL SUPPORT (ANGLES, CHANNELS, ETC) WITHIN WALLS WHERE WEIGHT OF ATTACHED ITEMS OR EQUIPMENT IS TOO GREAT TO BE SUPPORTED BY WALL STUDS. PROVIDE BLOCKING FOR OWNER FURNISHED OR INSTALLED ITEMS
- PARTITIONS WHERE INDICATED BY SYMBOL ARE TO EXTEND AND SEAL AGAINST THE BOTTOM OF THE DECK ABOVE.
- USE METAL CORNER BEADS ON ALL GYPSUM BOARD EXTERIOR CORNERS
- TRANSITION OF DIFFERENT FLOORING MATERIALS AT DOORWAYS SHALL OCCUR AT CENTERLINE OF DOORS TYPICALLY.
- PAINT ALL WALL SURFACES, DOOR FRAMES, BULKHEADS AND CEILINGS IN ROOMS WHERE INDICATED ON THE ROOM FINISH SCHEDULE. PAINT BEHIND ALL MOVEABLE ITEMS ADJACENT TO WALLS RECEIVING PAINT AND RELOCATE THEM.
- WEATHER-EXPOSED SURFACES SHALL HAVE A WEATHER RESISTIVE BARRIER TO PROTECT THE INTERIOR WALL COVERING AND EXTERIOR OPENINGS SHALL BE FLASHED IN SUCH A MANNER AS TO MAKE THEM WATERPROOF.
- A GYPSUM BOARD CONTROL JOINT SHALL BE INSTALLED WHERE A WALL PARTITION OR CEILING TRAVERSES A CONTROL JOINT (EXPANSION, SEISMIC OR BUILDING CONTROL ELEMENT) IN THE BASE BUILDING STRUCTURE.
- A GYPSUM BOARD CONTROL JOINT SHALL BE INSTALLED WHERE A WALL OR PARTITION RUNS IN AN UNINTERRUPTED STRAIGHT PLAN EXCEEDING 30 LINEAR FEET.
- GYPSUM BOARD CONTROL JOINTS SHALL BE INSTALLED IN WALLS, PARTITIONS OR CEILINGS AS PER ASTM C 840 OR GA-216.



WARMAN ARCHITECTURE+DESIGN

1735 SWIFT AVE. NORTH KANSAS CITY, MISSOURI 64116 V. 816.474.2233 F. 816.474.1051

DRAWING INDEX

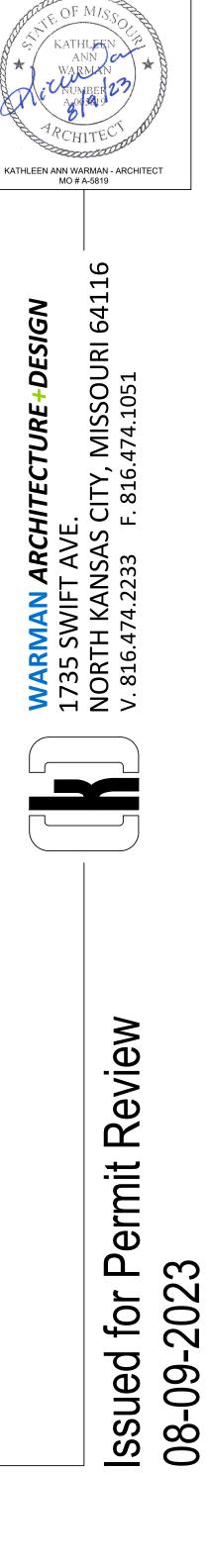
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ARCHITECTURAL		
DEMOLITION PLAN	D-101	•
EGRESS PLAN / CODE DATA	G-101	•
FLOOR PLAN	A-101	
REFLECTED CEILING PLAN	A-110	
EXTERIOR ELEVATIONS	A-201	
DOOR / WINDOW SCHEDULES & DETAILS	A-601	•
		•
		•
		•
MECHANICAL		
MECHANICAL SPECIFICATIONS & SYMBOLS	M-001	
MECHANICAL PLAN	M-101	
		•
ELECTRICAL		
ELECTRICAL SPECIFICATIONS & SYMBOLS	E-001	•
ELECTRICAL PLANS - LIGHTING	E-101	
ELECTRICAL PLANS - POWER	E-102	
ELECTRICAL SCHEDULES & DIAGRAMS	E-201	•
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DEFERRED SUBMITTALS

- SIGNAGE 1.
- FIRE SUPPRESSION PLANS

GENERAL CONTRACTOR NOTE

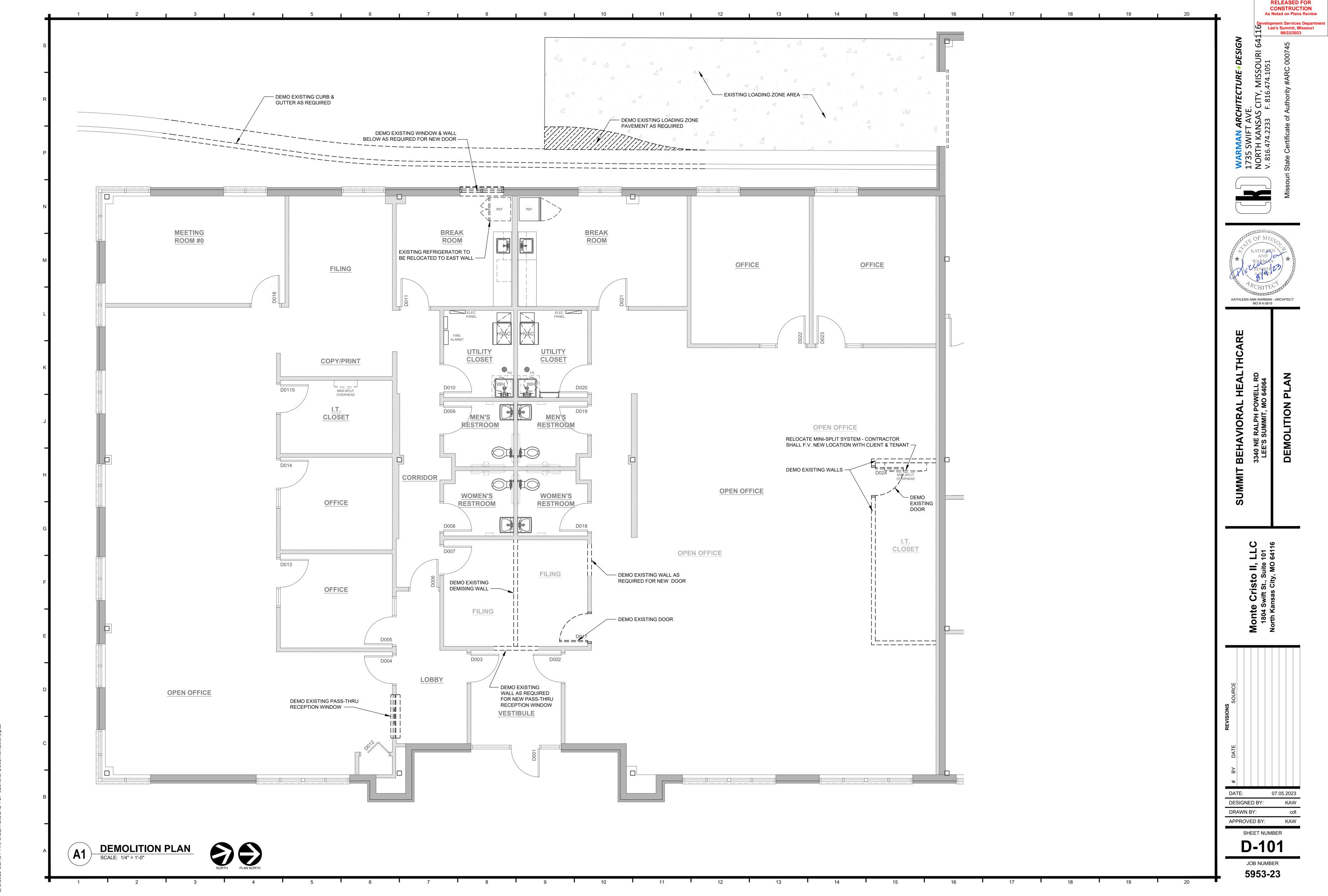
ALL SUB-CONTRACTORS SHALL BE PROVIDED WITH A COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR **BIDDING AND CONSTRUCTION**



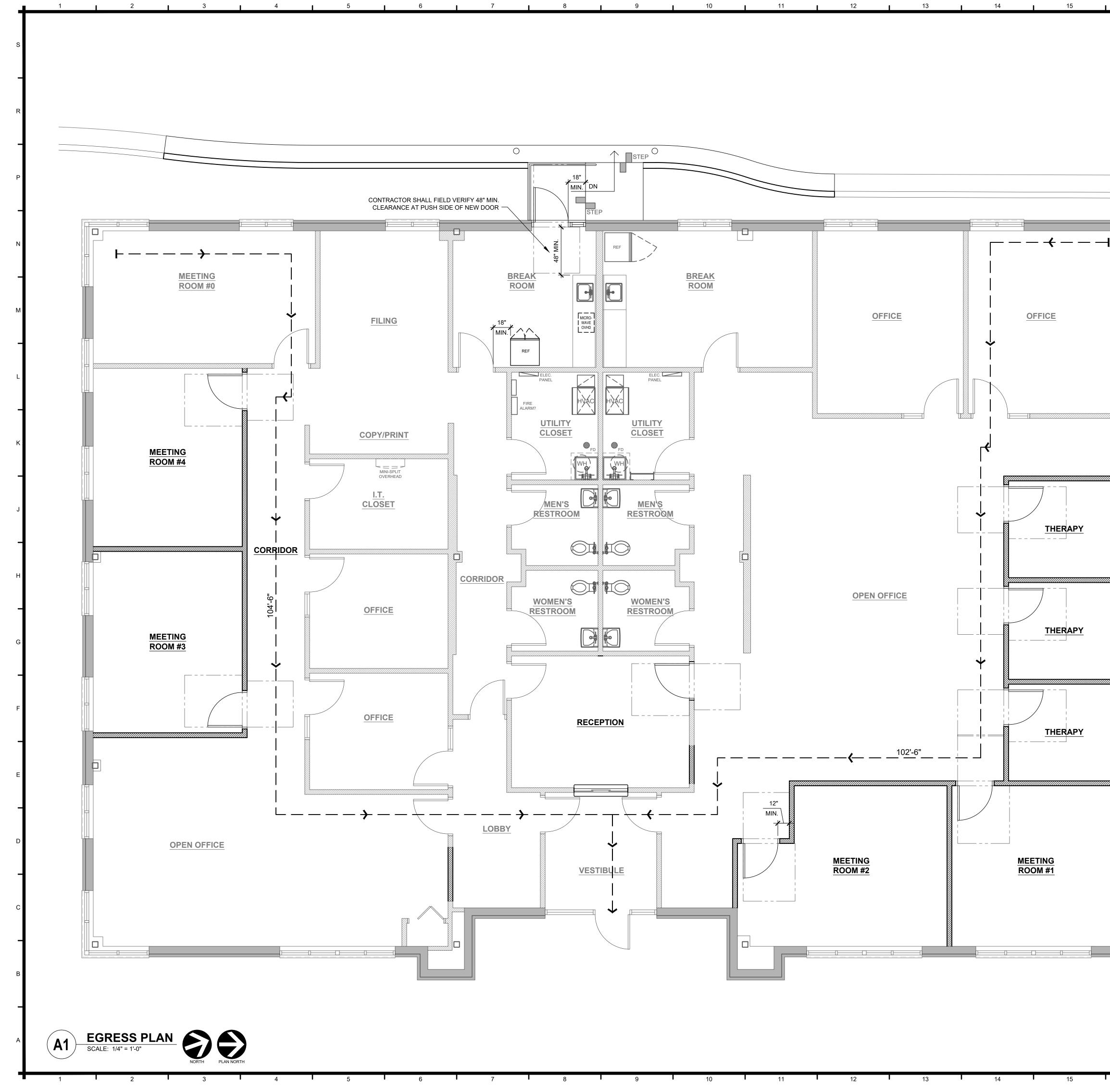
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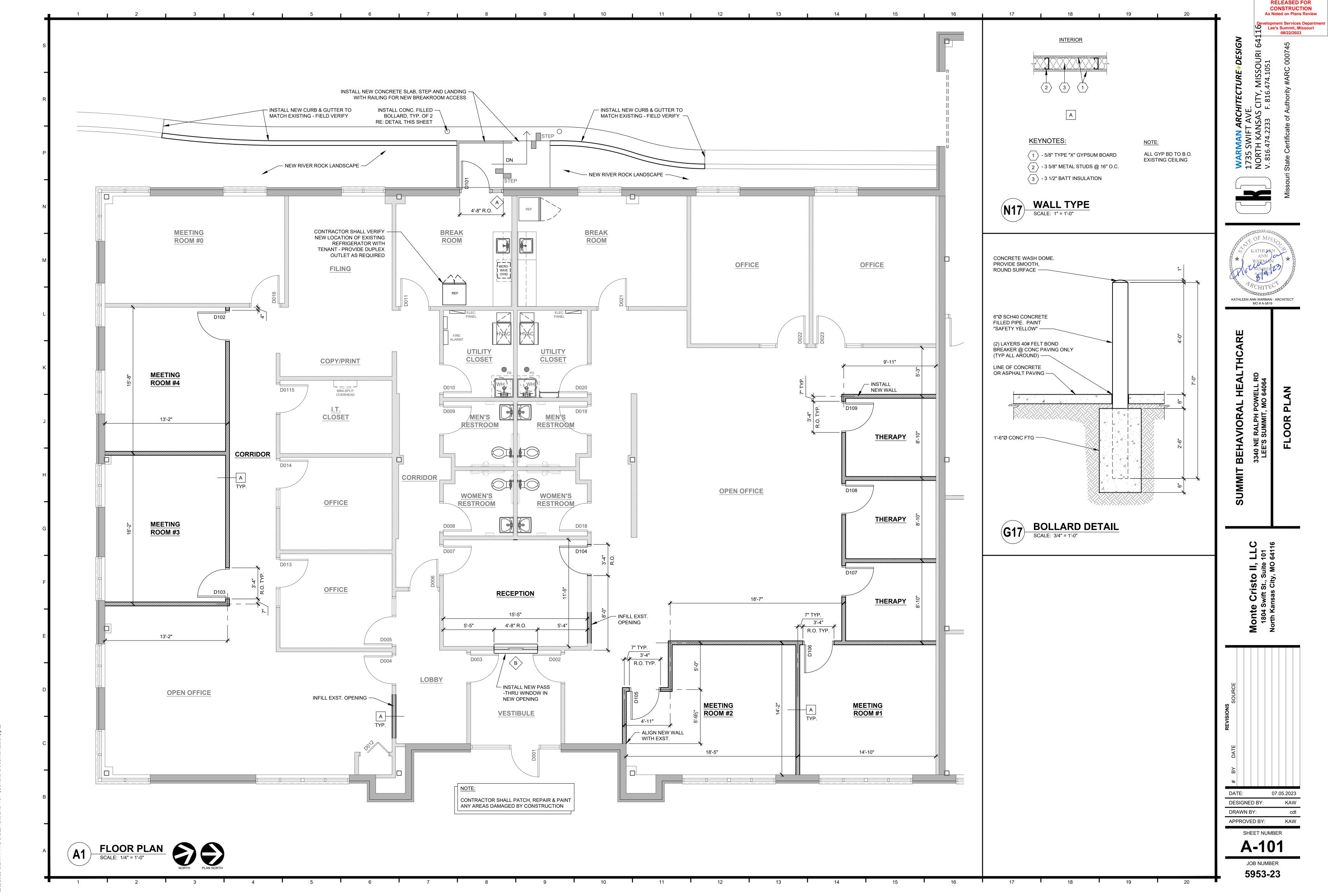
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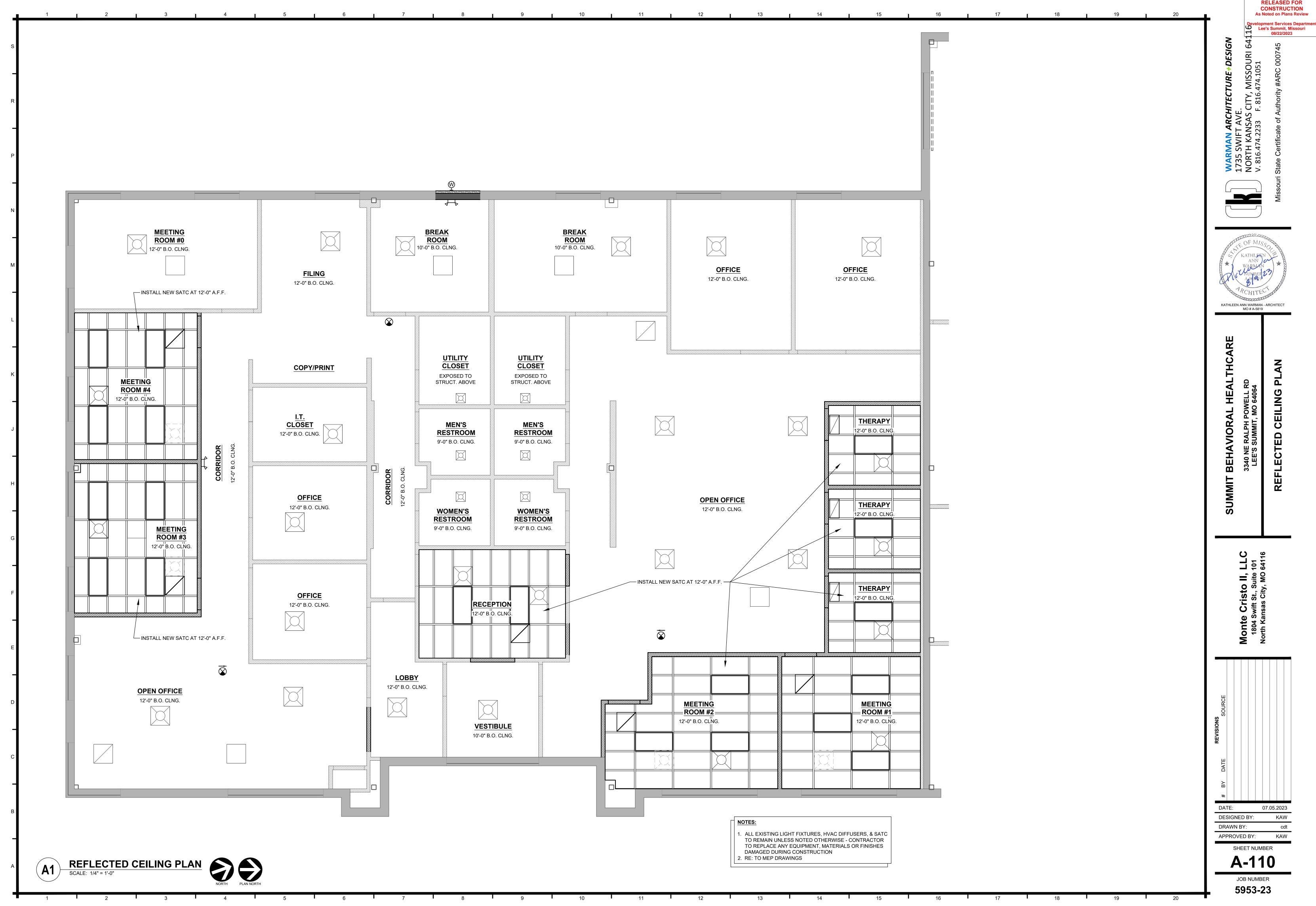
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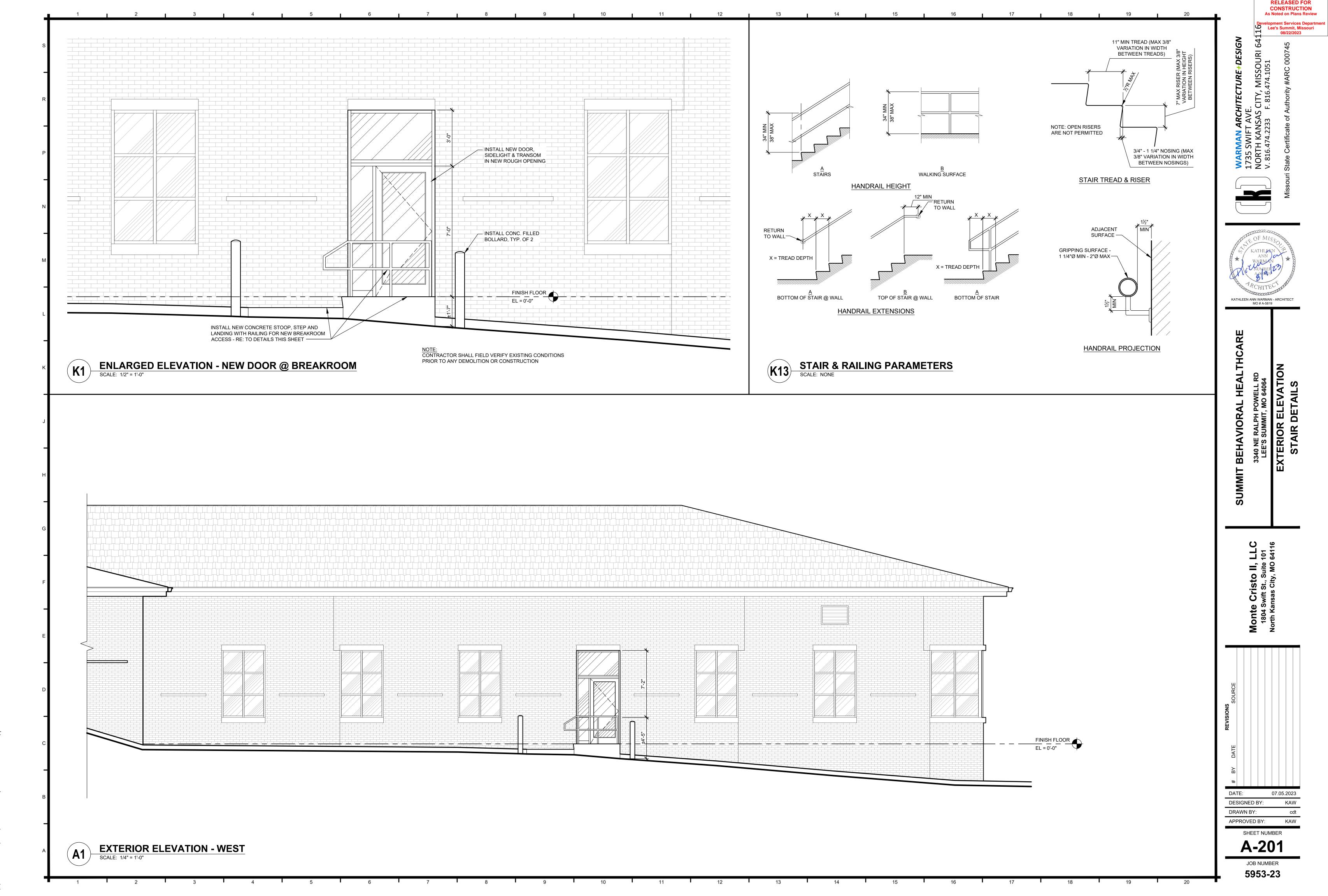


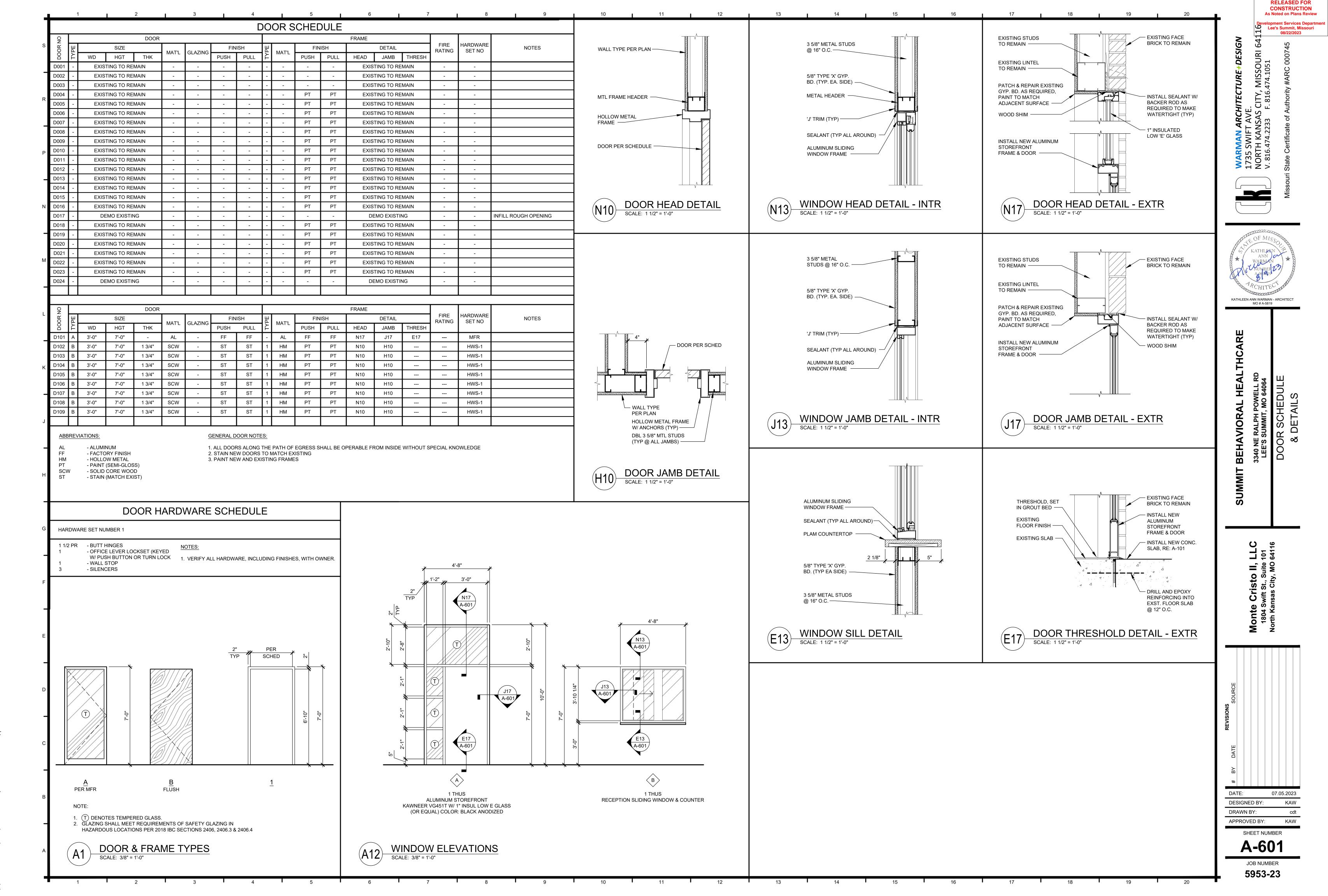
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C. FIRE SEPARAT 1. FIRE ENCLO	ION ASSEMBLIES: SURE OF EXITSN/A	(HR(S)	
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E. SMOKE BARRIE F. OTHER NON LC	ERS	HR(S)	KATHLEEN E
G. INTERIOR LOAI COLUMNS, GIR	D BEARING WALLS, PARTITIONS, 0 DERS, TRUSSES & FRAMING 0	HR(S)	ANN WARMAN
	MEMBERS SUPPORTING WALLS	<u>) HR(S)</u> HR(S)	ADDIGUS
TRUSSES, ARC	HES & ROOF DECKS) HR(S)	RCHITECT
7. EXITS:		KATHLEEN	ANN WARMAN - ARCHITECT MO # A-5819
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D. MAX. DEAD EN E. MIN. CORRIDOR	D CORRIDOR DISTANCE		
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D. STANDPIPE SY E. SMOKE VENTS	REQUIRED YES PROVIDED STEM REQUIRED YES PROVIDED STEM REQUIRED NO PROVIDED		
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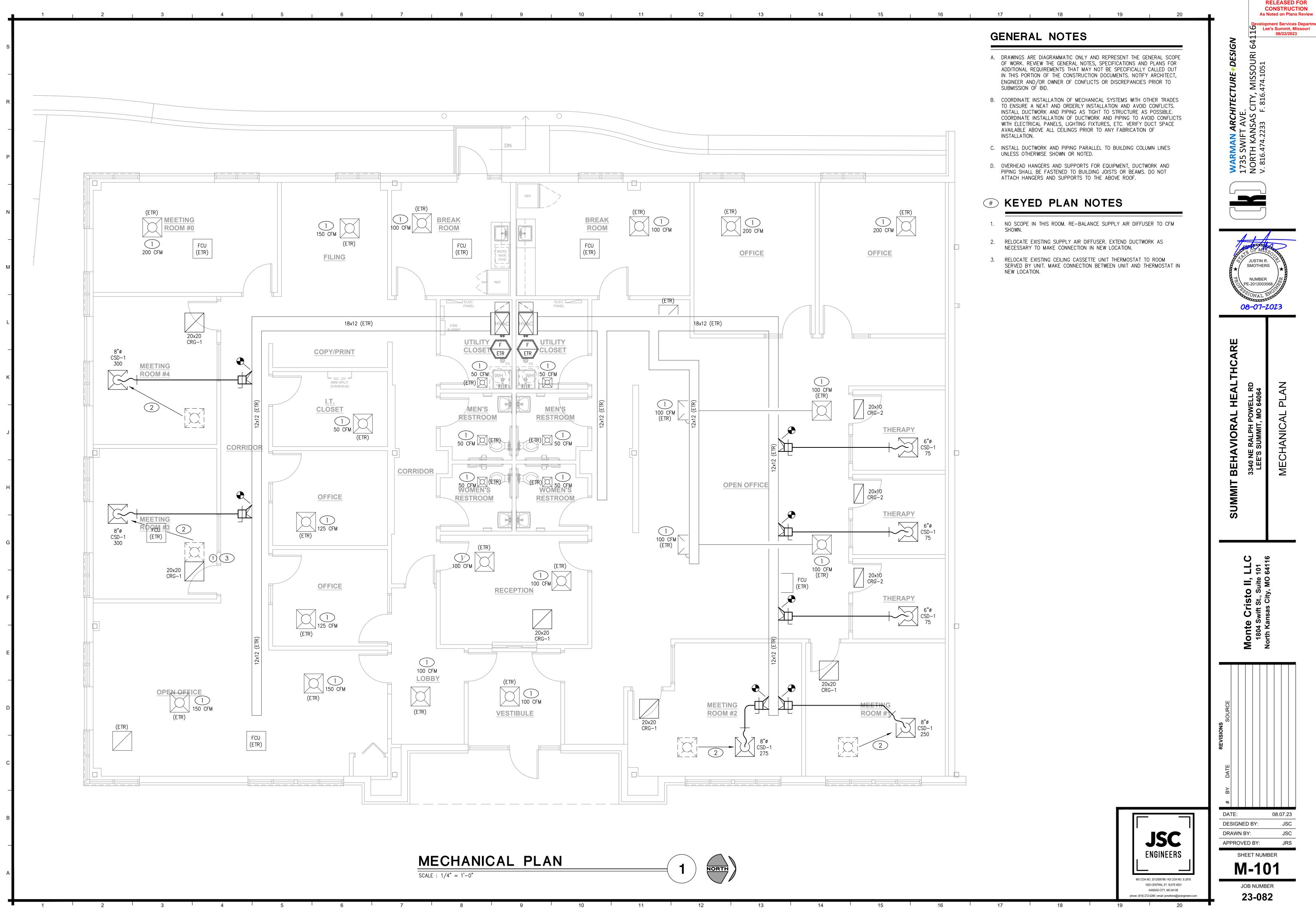






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8 9 10 11 12	ı 13 ı 14 ı 15 ı 16 ı 17	7 18 19 20	RELEASED FOR CONSTRUCTION As Noted on Plans Review
	MECHANICAL SPECIFICATIONS	MECHANICAL SYMBOLS	25 Bevelopment Services Departmu Lee's Summit, Missouri 08/22/2023 45 9
	 <u>1. GENERAL PROVISIONS:</u> A. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE COMPLETE INSTALLATION OF THE MECHANICAL SYSTEMS OUTLINED. 	THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ETC, ARE NECESSARILY USED ON THE DRAWINGS. HVAC EQUIPMENT & DUCTWORK	URI L
	 B. OBTAIN ALL PERMITS, FEES, LICENSES, INSPECTIONS, AND CERTIFICATIONS OF COMPLIANCE OR APPROVAL AS REQUIRED BY AUTHORITIES. C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS OF THE GOVERNMENTAL BODIES HAVING JURISDICTION OVER THE SITE. 	SPIN-IN FITTING WITH MANUAL VOLUME DAMPER	CTURE+L Y, MISSO
	 D. ALL TESTING REQUIRED BY AUTHORITIES SHALL BE CONSIDERED PART OF THIS WORK. E. DURING CONSTRUCTION, ALL FIXTURES, EQUIPMENT, PIPE, DUCT, ETC. SHALL BE COVERED, PLUGGED, OR CAPPED AS REQUIRED TO KEEP CLEAN AND UNDAMAGED. ALL DAMAGED ITEMS SHALL BE RESTORED TO ORIGINAL CONDITION OR REPLACED. ALL PROTECTIVE COVERING SHALL BE REMOVED 	BRANCH DUCT WITH 45° RECTANGLE-ROUND BRANCH FITTING AND MANUAL VOLUME DAMPER	RCHITEC: VE. AS CITY, F. 816.
	BEFORE FINAL ACCEPTANCE. F. PROVIDE ALL NECESSARY CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS, AND ROOFS AS NECESSARY. PATCH AROUND ALL OPENINGS SHALL MATCH ADJACENT AREA. COORDINATE ALL ROOFING WORK WITH OWNER OR RESPONSIBLE PARTY. SO THAT THE EXISTING ROOFING WARRANTY WILL BE	ELBOW WITH TURNING VANES	<mark>IAN A</mark> WIFT A H KANS, 74.2233
	MAINTAINED. G. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS AGAINST DEFECT FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE. H. INSPECTION OF THE SITE: THIS CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE MEP	RETURN, EXHAUST, OR OUTSIDE AIR DUCT UP RETURN, EXHAUST, OR OUTSIDE AIR DUCT DOWN SUPPLY AIR DUCT UP	WARM 1735 SV NORTH V. 816.47
	DRAWINGS, SPECIFICATIONS, DETAIL, AND THE SITE. THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY SPECIAL OR UNUSUAL PROBLEMS, CONFLICTS, OR OBSTRUCTIONS THAT AFFECT HIS BID. I. FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY, THE MECHANICAL AND PLUMBING DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS AND FITTINGS REQUIRED FOR	SUPPLY AIR DUCT DOWN	
	INSTALLATION. DO NOT SCALE DRAWINGS. THE SIZE AND LOCATION OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DATA AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATION SECTIONS WHERE MECHANICAL WORK INTERFACES WITH OTHER TRADES.		
	 J. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS OR WITH CODE REQUIREMENTS, THE NOTE OR CODE WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE JOB OR HIGHER STANDARD SHALL PREVAIL. K. INSTALL MATERIALS AND SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND 	MANUAL VOLUME DAMPER	
	APPROVED SUBMITTALS. INSTALL MATERIALS IN PROPER RELATION WITH ADJACENT CONSTRUCTION AND WITH UNIFORM APPEARANCE FOR EXPOSED WORK. COORDINATE WITH WORK OF OTHER SECTIONS. COMPLY WITH APPLICABLE REGULATIONS AND CODE REQUIREMENTS. PROVIDE PROPER CLEARANCES FOR SERVICING.	DUCT TRANSITION	JUSTIN R. SMOTHERS
	 L. INCLUDE ALL BASIC MATERIALS AND CONSTRUCTION METHODS INCLUDING PIPES, PIPE FITTINGS, AND SPECIALTIES AND SUPPORTING DEVICES, VALVES, PIPE AND VALVE IDENTIFICATION, PUMPS, VIBRATION ISOLATION, ETC. M. FURNISH ADEQUATE ACCESS PANELS AND DOORS TO ALLOW FOR FUTURE PIPING ALTERATIONS, 	DUCT MOUNTED SMOKE DETECTOR (FD) FIRE DAMPER [002] CARBON DIOXIDE SENSOR	NUMBER PE-2012003568
	REPLACEMENT, AND MAINTENANCE OF PIPING. PROPERLY IDENTIFY ALL ACCESS PANELS AND DOORS. <u>2. INSULATION AND DUCT LINING:</u> C. DUCTWORK INSULATION:	(FSD) FIRE SMOKE DAMPER HS HUMIDITY SENSOR	08-07-2023
	1. DUCT COVERING: 3/4 LB/CF, FIBERGLASS BLANKET WITH FACTORY APPLIED VAPOR BARRIER AND FACING. THICKNESS AS SCHEDULED, INSTALLATION IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. DUCT COVERING SHALL BE MINIMUM R-6. a. SUPPLY AIR DUCT: 2"	SD SMOKE DAMPER SP STATIC PRESSURE SENSOR MD MOTORIZED DAMPER TS TEMPERATURE SENSOR BD BACKDRAFT DAMPER H HUMIDISTAT	
	3. TESTING, BALANCING AND CLEANING: A. ALL PIPING SHALL BE TESTED FOR LEAKS BEFORE BEING CONCEALED IN WALL CONSTRUCTION OR COVERED WITH INSULATION.	VD VOLUME DAMPER T THERMOSTAT	
	B. DUCTWORK AND PIPING SHALL BE BALANCED BY QUALIFIED BALANCING PERSONNEL WHO HAVE PREVIOUS EXPERIENCE WITH BALANCING PROCEDURES AND ARE FAMILIAR WITH TESTING AND BALANCING PROCEDURES OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR NATIONAL	CEILING DIFFUSER W/FLEX DUCT (SEE SPECS)	
	ENVIRONMENTAL BALANCING BUREAU (NEBB). 1. BALANCING SHALL INCLUDE THE BALANCING OF THE EQUIPMENT AND AIR DISTRIBUTION SYSTEMS TO PROVIDE DESIGN QUANTITIES INDICATED AND VERIFICATION PERFORMANCE OF ALL EQUIPMENT AND AUTOMATIC CONTROLS.	RIGID BRANCH DUCT	- HEA WELL RI 0 64064 CIFIC/
	2. WITH IN 30 DAYS OF THE COMPLETION OF THE TESTING AND BALANCING WORK, SUBMIT THE TEST AND BALANCING REPORT BEARING THE SIGNATURE OF THE TEST AND BALANCE ENGINEER. THE REPORTS SHALL BE CERTIFIED PROOF THAT THE SYSTEMS HAVE BEEN TESTED, ADJUSTED, AND BALANCED IN ACCORDANCE WITH THE REFERENCED STANDARDS; ARE AN ACCURATE	CEILING RETURN GRILLE	DRAL PH PO IMIT, MC SPEC SPEC
DIFFUSER, REGISTER AND GRILLE SCHEDULE UFACTURER MODEL FACE TYPE MOUNTING TYPE FACE SIZE (IN.) MAX NOTES	REPRESENTATION OF HOW THE SYSTEMS HAVE BEEN INSTALLED AND ARE OPERATING. REPORTS SHALL BE BOUND IN A VINYL BINDER AND THE BINDER LABELLED OR MAY BE AN ELECTRONIC PDF SUBMITTAL. 4. DUCTWORK:	EXHAUST GRILLE	HAVIC NE RAL ICAL
TITUS OMNI PLAQUE FACE LAY-IN 24 x 24 25 A-C	 <u>4. DUCTWORK:</u> A. ALL DUCTWORK UNLESS OTHERWISE INDICATED SHALL BE FABRICATED FROM GALVANIZED SHEET STEEL COMPLYING WITH ASTM A 527, LOCKFORMING QUALITY, WITH G60 ZINC COATING IN ACCORDANCE WITH ASTM A 525, AND MILL PHOSPHATIZED FOR EXPOSED LOCATIONS. B. DUCTWORK METAL GAUGES, REINFORCING, ETC SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA 	ABBREVIATIONS AFF ABOVE FINISHED FLOOR MC MECHANICAL CONTRACTOR	T BEH 33401 SHANIC
TITUS 50F EGGCRATE LAY-IN 24 x 24 25 A-C TITUS 50F EGGCRATE LAY-IN 12 x 24 25 A-C	"HVAC DUCT CONSTRUCTION STANDARDS," LATEST EDITION FOR A 2" WATER GAUGE STATIC PRESSURE. C. ALL FITTINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS," LATEST EDITION.	BASBUIDLING AUTOMATION SYSTEMMINMINIMUMBDBACKDRAFTNCNOISE CRITERIACFMCUBIC FEET PER MINUTEOAOUTSIDE AIRDDCDIRECT DIGITAL CONTROLRARETURN AIRDXDIRECT EXPANSIONSASUPPLY AIR	
SIZE SHOWN ON DRAWINGS. D ENAMEL FINISH, WHITE IE TYPE TO MATCH CEILING CONSTRUCTION, COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.	 D. RECTANGULAR DUCT: ELBOWS, UNLESS INDICATED OTHERWISE, SHALL BE CONSTRUCTED WITH CENTERLINE RADIUS OF NOT LESS THAN 1.5 DUCT WIDTH OR SQUARE ELBOWS WITH DOUBLE WALL STREAMLINE ELBOWS. TAKE-OFF FITTINGS: BRANCH DUCT TAKE-OFF FITTINGS FOR SUPPLY AND EXHAUST DIFFUSER/REGISTERS SHALL INCLUDE AN INTEGRAL MANUAL VOLUME DAMPER WITH LOCKING 	DXDIRECT EXPANSIONSASUPPLY AIREAEXHAUST AIRSDSMOKE DUCT DETECTORFFAFROM FLOOR ABOVETFATO FLOOR ABOVEFFBFROM FLOOR BELOWTFBTO FLOOR BELOWGPMGALLONS PER MINUTETYPTYPICAL	N N
	QUADRANT, DAMPER NOT REQUIRED ON RETURN AIR. FOR RECTANGULAR TO ROUND TAKE-OFFS, UTILIZE A "BUCKLEY" MODEL 3300 & 3300D OR EQUAL. 3. RETURN AIR ACOUSTIC ELBOWS AND SOUND BOOTS SHALL BE A SQUARE ELBOW WITH NO TURNING VANES.	IN WC INCHES OF WATER COLUMN MAX MAXIMUM MBH 1000 BTU PER HOUR W/ WITH W/O WITHOUT	မ မ
	 4. SLOPES FOR TRANSITIONS OR OTHER CHANGES IN DIMENSIONS SHALL BE A MINIMUM 1 TO 3. E. ROUND DUCT (SEE INSULATION SECTION FOR SPIRAL DUCT): 1. PROVIDE RADIUS TYPE FITTINGS FABRICATED OF MULTIPLE SECTIONS WITH MAXIMUM 15 DEGREE 	STANDARD MOUNTING HEIGHTS (AFF, UNLESS NOTES OTHERWISE)	II, LL(uite 101 MO 6411
	 CHANGE OF DIRECTION PER SECTION. UNLESS SPECIFICALLY DETAILED OTHERWISE, USE 45 DEGREE LATERALS FOR BRANCH TAKEOFF CONNECTIONS. WHERE 90 DEGREE BRANCHES ARE INDICATED PROVIDE CONICAL TYPE TEES. SLOPES FOR TRANSITIONS OR OTHER CHANGES IN DIMENSIONS SHALL BE MINIMUM 1 TO 3. ROUND LONGITUDINAL SEAM DUCT: USE FOR RIGID METAL DUCT ON LEAVING SIDE OF DUCT IN 	THERMOSTATS (USER ADJUSTABLE) (TOP OF DEVICE)48"CONTROLS (TOP OF DEVICE)48"ANNOTATION48"	st., s city,
METAL BAND OVER INSULATION (TYPICAL)	 S. ROUND LONGTODINAL SEAM DUCT. USE FOR RIGID METAL DUCT ON LEAVING SIDE OF DUCT IN CONCEALED LOCATIONS FOR EXTENSION TO FLEX FOR DIFFUSERS. F. SEAL ALL CONCEALED DUCTWORK JOINTS WITH NON-HARDENING, NON-MIGRATING MASTIC SEALANT, AS RECOMMENDED FOR SEALING SEAMS AND JOINTS IN DUCTWORK. OIL BASED CAULKING AND GLAZING COMPOUNDS SHALL NOT BE ACCEPTABLE. DUCTS SHALL BE SEALED TO THE CLASS LEVEL LISTED 	# PLAN WORK NOTE	nte Cr 804 Swift ih Kansas
HIGH EFFICIENCY TAKEOFF EXTERNALLY INSULATED, WITH VOLUME DAMPER AND DAMPER LOCK WITH EXTENSION	BELOW:(1) UNCONDITIONED SPACES:CLASS B(2) CONDITIONED SPACES (PLENUM):CLASS CCLASS BCLASS C	RTU MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE) CONNECTION POINT OF NEW WORK TO EXISTING	MON 180
SEE NOTE 1.	<u>SUPPLY 2"WC OR LESS</u> <u>EXHAUST</u> <u>RETURN</u> G. DUCT SIZES SHOWN ON THE DRAWINGS ARE SHEET METAL SIZES. INCREASE SHEET METAL SIZES ACCORDINGLY TO ACCOUNT FOR THICKNESS OF DUCT LINER.	A DETAIL REFERENCE UPPER NUMBER INDICATED DETAIL NUMBER M1 LOWER NUMBER INDICATES SHEET NUMBER	
INSULATED FLEXIBLE DUCT AS REQUIRED, STALL PERMANENTLY LED AND SUPPORTED	 H. WHETHER SHOWN ON PLANS OR NOT, PROVIDE MANUAL VOLUME DAMPERS IN EACH RUNOUT TO EACH SUPPLY DIFFUSER OR REGISTER. PROVIDE ACCESS PANELS TO DAMPERS LOCATED ABOVE HARD CEILINGS. I. PROVIDE AUXILIARY STEEL AS REQUIRED TO ADEQUATELY SUPPORT DUCTWORK. J. WHERE DUCTS PASS THROUGH FIRE-RATED FLOORS, WALLS, OR PARTITIONS, PROVIDE FIRESTOPPING 	1 SECTION CUT DESIGNATION	Ш
TO PREVENT KINKING AND SHARP TURNS L BAND (TYPICAL)	 WHERE DUCTS FASS THROUGH FIRE RATED FLOORS, WALLS, OR FARTHORS, FROMDE FIRESTOFFIRE BETWEEN DUCT AND WALL. K. WHERE DUCTS PASS THROUGH INTERIOR PARTITIONS OR EXTERIOR WALLS, AND ARE EXPOSED TO VIEW, CONCEAL SPACE BETWEEN OPENING AND DUCT OR DUCT INSULATION WITH SHEET METAL FLANGES OF SAME GAUGE AS DUCT. OVERLAP OPENING ON 4 SIDES BY AT LEAST 1-1/2". FASTEN TO DUCT AND 		SOUR SOUR
G DIFFUSER WITH	WALL. <u>5. FLEXIBLE DUCT:</u> A. ATCO #086 (R-6), OR EQUAL.		REVISI
AE/FIRE DAMPER AS SCHEDULED CEILING	 B. FACTORY APPLIED INSULATION AND VAPOR BARRIER, 1–1/2" THICK. C. MAXIMUM LENGTH OF 6'-0". 6. REMODELING WORK: 		DATE
NOTES: 1. EXTEND RIGID METAL DUCT SO THAT MAXIMUM FLEXIBLE DUCT LENGTH DOES NOT EXCEED 6'-0". PROVIDE RIGID 90° ELBOW WHERE REQUIRED TO KEEP FLEXIBLE	A. THIS PROJECT INVOLVES CONSTRUCTION INSIDE AN EXISTING STRUCTURE. CONTRACTORS, BY SUBMITTING A BID ARE DEEMED TO BE COMPLETELY FAMILIAR WITH THE EXISTING CONDITIONS OF THE BUILDING AS IT INFLUENCES THE WORK DESCRIBED. NO CLAIMS FOR EXTRA COMPENSATION WILL BE CONSIDERED FOR EXISTING CONDITIONS VISIBLE OR REASONABLY INFERABLE FROM A CAREFUL		
CEILING DIFFUSER	EXAMINATION OF THE EXISTING BUILDING CONDITIONS. B. CONTRACTOR SHALL INSPECT THE EXISTING FIELD CONDITIONS AT THE SITE AND THE CONTRACT DOCUMENTS PRIOR TO THE START OF ANY WORK TO DETERMINE WHAT EFFECT THE EXISTING CONDITIONS WILL HAVE ON THE WORK POTENTIAL. CONTRACTOR SHALL REPORT DISCREPANCIES TO THE		DATE:08.07.23DESIGNED BY:JSCDRAWN BY:JSC
	ARCHITECT AND INCLUDE IN THE BID ALL COSTS REQUIRED TO MAKE THE WORK MEET EXISTING CONDITIONS. C. DISPOSAL AND CLEANUP: REMOVE FROM THE SITE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS AND EQUIPMENT NOT INDICATED TO BE SALVAGED.	JSC ENGINEERS	APPROVED BY: JRS SHEET NUMBER
	 D. PROTECT ADJACENT MATERIALS INDICATED TO REMAIN. INSTALL AND MAINTAIN DUST AND NOISE BARRIERS TO KEEP DIRT, DUST, AND NOISE FROM BEING TRANSMITTED TO ADJACENT AREAS. REMOVE PROTECTION AND BARRIERS AFTER REMODELING OPERATIONS ARE COMPLETE. 	MO COA NO. 2012006786 / KS COA NO. E-2818	M-001
8 9 10 11 12	13 14 15 16 17	1925 CENTRAL ST. SUITE #201 KANSAS CITY, MO 64108 phone: (816) 272-5289 email: jsmothers@jscengineers.com 7 18 19 20	JOB NUMBER 23-082



SYMBOLS LEGEND	
NOTE: THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ETC, ARE NECESSARILY USED ON THE DRAWINGS.	PART I – GENERAL
LIGHTING FIXTURES – SYMBOL/LETTER INDICATES LIGHT FIXTURE AS INDICATED ON FIXTURE SCHEDULE	A. GENERAL 1. FURNISH AND INSTALL A COMPLETELY WIRED AND OPERATIONAL ELECTRICAL SYST
LED FIXTURE (SEE LIGHTING FIXTURE SCHEDULE)	DRAWINGS AND SPECIFIED HEREIN, INCLUDING BUT NOT LIMITED TO, THESE MAJOR A. LIGHTING FIXTURES AS INDICATED AND SPECIFIED ON THE PLANS. B. ELECTRICAL PANELS, SERVICE, CONDUIT, WIRING, ETC., FOR ALL OUTLETS AND
	C. TELEPHONE, TELEVISION, AND FIRE ALARM. OUTLETS AND CONDUIT AS INDICATE
FIXTURE WITH EMERGENCY BATTERY DRIVER UNIT	2. OBTAIN AND REVIEW ALL OTHER DRAWINGS INCLUDING REFLECTED CEILING PLAN, I ELEVATIONS, FURNITURE PLANS AND ALL MILL WORK DRAWINGS. COORDINATE INST
$\frac{\sqrt{2}}{\sqrt{2}}$ TRACK LIGHT	ELECTRICAL DEVICES AND EQUIPMENT PRIOR TO ROUGH-IN. 3. OBTAIN SUBMITTAL AND SHOP DRAWINGS FROM OTHER TRADES AND EQUIPMENT T
 DOWNLIGHT FIXTURE WITH EMERGENCY BATTERY DRIVER UNIT WALL MOUNTED FIXTURE WITH EMERGENCY BATTERY DRIVER UNIT 	INSTALLATION ACCORDINGLY.
PENDANT MOUNTED FIXTURE WITH EMERGENCY BATTERY DRIVER UNIT	4. INSTALLATION SHALL COMPLY WITH ALL CURRENT APPLICABLE CODES AND GOVER JURISDICTION.
O DOWNLIGHT FIXTURE OH WALL MOUNTED FIXTURE	5. FIRE ALARM SYSTEM, IF REQUIRED PER IBC, SHALL BE DESIGN-BUILD BY OWNER'S CONTRACTOR. DESIGN SHALL BE IN ACCORDANCE WITH NFPA 72. FIRE ALARM CO
PENDANT MOUNTED FIXTURE	SUBMIT STAMPED DRAWINGS TO AHJ FOR REVIEW AND APPROVAL. FIRE ALARM OR RESPONSIBLE FOR TESTING AND VERIFYING THAT THE AUDIBILITY OF THE FIRE ALA
 ● WALL WASHER ● SINGLE FACE EXIT SIGN - UNIVERSAL MOUNTED 	MINIMUM OF 15 DBA ABOVE AMBIENT NOISE LEVELS. ADD HORNS WHERE REQUIRED LEVELS.
I⊗ SINGLE FACE EXIT SIGN W/ DIRECTIONAL ARROWS – UNIVERSAL MTD	6. PROVIDE FIRE STOP ON ALL PIPING THAT PENETRATES RATED WALLS. METHOD OF WALL RATING. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE RATED
DOUBLE FACE EXIT SIGN W/ DIRECTIONAL ARROWS - UNIVERSAL MTD	CONTRACTOR SHALL PROVIDE FIRE RATED ENCLOSURES AROUND ALL ROUGH-IN E THAT ARE LOCATED IN FIRE RATED WALLS AND SHALL FIRE CAULK ALL OPENINGS
DUAL HEADED EMERGENCY UNIT	B. RELATED WORK BY OTHERS 1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, TRENCH, AND BACKFILL I
LIGHTING CONTROLS	ENTRANCE FROM THE MAIN SERVICE TO UTILITY POINT OF ELECTRICAL SERVICE. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE ELECTRICAL SERVICE SERVING UTILITY COMPANY.
S SINGLE POLE SWITCH @ +48" UNLESS NOTED	2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, TRENCH, AND BACKFILL I AND CATV SERVICE FROM THE TELEPHONE TERMINAL BOARD OR CABINET TO THE
Sabc SWITCH BANK @ +48" UNLESS NOTED. LOWER CASE LETTER INDICATES FIXTURE CONTROLLED.	CATV COMPANY POINT OF SERVICE. COORDINATE WITH LOCAL UTILITY COMPANIES.
S3 3-WAY SWITCH @ +48" UNLESS NOTED S4 4-WAY SWITCH @ +48" UNLESS NOTED	C. CODES, REGULATIONS, AND STANDARDS 1. THE INSTALLATION SHALL COMPLY WITH APPLICABLE LOCAL AND STATE CODES AN THE REGULATIONS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE A
Sd dimmer switch – size as required @ +48" unless noted Sm manual motor starter	REQUIREMENTS OF THE POWER, TELEPHONE, AND CATV COMPANIES FURNISHING SI INSTALLATION.
SOS WALL SWITCH WITH OCCUPANCY SENSOR. DIGITAL LOW VOLTAGE WALL SWITCH. SWITCH @	2. THE LATEST EDITIONS OF THE FOLLOWING INDUSTRY STANDARDS, SPECIFICATIONS, MINIMUM REQUIREMENTS: A. THE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION STANDARDS.
+48" UNLESS NOTED. SLV TWO BUTTON DIGITAL LOW VOLTAGE WALL SWITCH. PROVIDES ON/OFF/0-10V DIMMING. SWITCH	B. THE NATIONAL ELECTRICAL CODE, INCLUDING LOCAL AMENDMENTS. C. UNDERWRITER LABORATORIES INCORPORATED STANDARDS.
 #48" UNLESS NOTED. PROVIDE EXTRA CONTROL CABLES NEEDED TO FIXTURE CONTROLLED. LIGHTING CONTROLS CEILING MOUNT OCCUPANCY SENSOR 	D. AMERICAN NATIONAL STANDARDS INSTITUTE. E. INTERNATIONAL BUILDING CODE.
P LIGHTING CONTROLS POWER PACK	D. INSPECTION OF SITE 1. PRIOR TO SUBMITTING A BID FOR ELECTRICAL WORK, THE CONTRACTOR SHALL VIS
PC PHOTOCELL	PROPOSED CONSTRUCTION AND SHALL THOROUGHLY ACQUAINT HIMSELF WITH EXIS WORKING CONDITIONS TO BE ENCOUNTERED, ETC. ALLOWANCE WILL NOT BE MAD
TIMECLOCK LIGHTING CONTACTOR	WITH THIS CONDITION AFTER BIDDING. 2. ELECTRICAL INSTALLATION SHALL MEET THE EXISTING CONDITIONS.
POWER DISTRIBUTION	E. STORAGE AND HANDLING OF MATERIAL 1. DELIVER MATERIALS AND EQUIPMENT TO THE PROJECT IN THE MANUFACTURER'S (
SWITCHBOARD, MOTOR CONTROL CENTER OR DISTRIBUTION BOARD	LABELED CONTAINERS. PROTECT AGAINST MOISTURE, TAMPERING, OR DAMAGE FR OR STORAGE. CONTRACTOR SHALL PROTECT AND BE RESPONSIBLE FOR ANY DAI
277/480V, 3 PHASE, 4 WIRE PANELBOARD, UNO 120/208V, 3 PHASE, 4 WIRE PANELBOARD, UNO	MATERIALS UNTIL FINAL ACCEPTANCE BY THE OWNER, AND SHALL MAKE GOOD W OWNER, ANY DAMAGE OR LOSS THAT MAY OCCUR DURING THIS PERIOD. 2. ARRANGE FOR TIMELY DELIVERY OF MATERIALS AND EQUIPMENT TO THE JOB SITE
120/240V, 1 PHASE, 3 WIRE PANELBOARD, UNO	THE LENGTH OF TIME BETWEEN DELIVERY AND INSTALLATION. 3. COVER AND PROTECT ANY MATERIAL WHICH MAY BE AFFECTED BY THE WEATHER
	STORED AT THE PROJECT SITE. ANY MATERIAL FOUND DEFECTIVE OR NOT INSTAL WITH THE CONTRACT DOCUMENTS MAY BE REJECTED BY THE ENGINEER.
<u>POWER DEVICES</u> € SPECIAL HEAVY DUTY RECEPTACLE – SIZE AS NOTED.	F. CLEANUP 1. KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS, OR RUBBI
(+18" UNLESS NOTED (+18" UNLESS NOTED (+18" UNLESS NOTED	EMPLOYEES OR WORK UNDER THIS DIVISION OF THE SPECIFICATIONS. AT THE CO REMOVE ALL SURPLUS MATERIALS, TOOLS, ETC., AND LEAVE THE PREMISES BROO
 FIRE RATED POKE THRU WITH TYPE INDICATED 	G. EXCAVATION, CUTTING, AND FITTING 1. PERFORM ALL EXCAVATION AND BACK FILLING REQUIRED FOR WORK PERFORMED U
FLUSH FLOOR BOX WITH TYPE INDICATED	THE SPECIFICATIONS. USE EXCAVATED MATERIALS FOR BACKFILL UNLESS OFF SIT DEEMED NECESSARY.
 → SINGLE RECEPTACLE @ +18" UNLESS NOTED → DUPLEX RECEPTACLE @ +18" UNLESS NOTED 	2. PERFORM THE EXCAVATION, CUTTING, FITTING, REPAIRING, AND FINISHING OF THE THE INSTALLATION OF THE EQUIPMENT OF THIS SECTION. HOWEVER, NO CUTTING OTHER TRADES OR OF ANY STRUCTURAL MEMBERS SHALL BE DONE WITHOUT THE
DOUBLE DUPLEX RECEPTACLE @ +18" UNLESS NOTED DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP	ARCHITECT.
GFI GFCI-RATED DUPLEX RECEPTACLE	H. DRAWINGS 1. THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT AND LOCATIONS OF THE EI PRESENTED ON THESE DRAWINGS ARE AS ACCURATE AS PLANNING CAN DETERMIN
ARC FAULT RATED DUPLEX RECEPTACLE	VERIFICATION OF ALL DIMENSIONS, LOCATIONS, LEVELS, ETC., TO SUIT FIELD CONE REVIEW ALL ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS AND ADJ
 DUPLEX RECEPTACLE WITH WEATHERPROOF COVERPLATE WP @ 18" UNLESS NOTED 	THE REQUIREMENTS OF CONDITIONS SHOWN. THE ARCHITECTURAL DRAWINGS SHA OVER ALL OTHER DRAWINGS. DISCREPANCIES BETWEEN DIFFERENT PLANS, OR BE
♣ 4-PORT USB RECEPTACLE - LEGRAND TM8USB4WCC6 USB	SPECIFICATIONS, OR REGULATIONS AND CODES GOVERNING THE INSTALLATION SHA ATTENTION OF THE ENGINEER IN WRITING BEFORE THE DATE OF BID OPENING. IF NOT REPORTED, THE CONTRACTOR SHALL BID THE GREATER QUANTITY OR BETTER
 JUNCTION BOX □→ DISCONNECT SWITCH - SIZE AND TYPE NOTED 	APPROPRIATE ADJUSTMENTS WILL BE MADE AFTER CONTRACT AWARD. CONTRACT RESPONSIBLE TO FIELD MEASURE AND CONFIRM MOUNTING HEIGHTS AND LOCATION FOUNDMENT WITH DESPECT TO CONNECT ON A DATA STORE FOR NOT STORE FOR MOUNTING HEIGHTS AND LOCATION.
COMBINATION FUSED STARTER DISCONNECT SWITCH FUSE SIZE AS INDICATED, STARTER SIZE '1'	EQUIPMENT WITH RESPECT TO COUNTERS, RADIATION, ETC. DO NOT SCALE DIST/ ELECTRICAL DRAWINGS, USE ACTUAL BUILDING DIMENSIONS.
AUXILIARY SYSTEMS	I. COOPERATION WITH OTHER CONTRACTORS 1. COOPERATE WITH THE OTHER TRADES SO THAT THE INSTALLATION OF THE ELECT
EF MECHANICAL EQUIP. CONNECTION, SEE SCHED. ON MECH. PLAN	EQUIPMENT WILL BE PROPERLY COORDINATED. CONDUIT, LIGHTING FIXTURES, AND LOCATIONS SHALL BE VERIFIED WITH OTHER TRADES TO AVOID CONFLICT WITH TH
► TELEPHONE OUTLET© +18" UNLESS NOTED	 STEEL, BEAMS, OR OTHER OBSTRUCTIONS. 2. CAREFULLY VERIFY THE LOCATIONS OF THE OUTLET BOXES AND DETERMINE THAT DISTURBED DURING THE INSTALLATION OF MATERIALS OF OTHER TRADES.
DATA OUTLET @ +18" UNLESS NOTED	3. COORDINATE THE LOCATION OF THE TRENCHES AND CONDUITS FOR ELECTRICAL A SERVICES WITH THE GENERAL CONTRACTOR.
COMBINATION TELEPHONE/DATA OUTLET @ +18" UNLESS NOTED	4. COORDINATE HVAC AND PLUMBING EQUIPMENT CONNECTION REQUIREMENTS WITH CONTRACTORS.
Image: Television outlet @ +60" unless noted Image: Smoke detector	J. RECORD DRAWINGS 1. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN A SET OF DRAWINGS AT THE JOE
(I) HEAT DETECTOR	EXCLUSIVE PURPOSE OF MAINTAINING A RECORD OF ALL WORK INSTALLED AND FROM THE WORK INDICATED ON THE DRAWINGS.
DUCT SMOKE DETECTOR	2. AT THE COMPLETION OF THE PROJECT, ONE SET OF REPRODUCIBLE DRAWINGS, S CONDITIONS, SHALL BE DELIVERED TO THE OWNER FOR ACCEPTANCE PRIOR TO F
RT REMOTE TEST STATION WITH INDICATING LIGHT. MOUNT AT 48" AFF UNO.	
CONNECTION POINT OF NEW WORK TO EXISTING	
GENERAL	
CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING	
CONDUIT RUN BELOW FLOOR OR GRADE	
P1-3,5,7 HOMERUN TO PANELBOARD, INFORMATION AT ARROWS ARE CIRCUIT NUMBERS AND PANELBOARD FOR TERMINATION. REFER TO ASSOCIATED NOTE FOR BRANCH CIRCUIT CONDUCTOR SIZES.	
S INDICATES 1/2" CONDUIT CONCEALED IN CEILING OR WALL WITH (3) CONDUCTORS. (1) PHASE, (1) NEUTRAL AND (1) GROUND WIRE. ALL ARE #12 AWG UNLESS NOTED OTHERWISE.	
(E) OR ETR: DENOTES EXISTING ITEM/EQUIPMENT TO REMAIN	

ELECTRICAL SPECIFICATIONS

PART II - PRODUCTS AND EXECUTION

A COMPLETELY WIRED AND OPERATIONAL ELECTRICAL SYSTEM AS SHOWN ON THE FIED HEREIN, INCLUDING BUT NOT LIMITED TO, THESE MAJOR ITEMS. AS INDICATED AND SPECIFIED ON THE PLANS. SERVICE, CONDUIT, WIRING, ETC., FOR ALL OUTLETS AND EQUIPMENT.

LL OTHER DRAWINGS INCLUDING REFLECTED CEILING PLAN, INTERIOR AND EXTERIOR PLANS AND ALL MILL WORK DRAWINGS. COORDINATE INSTALLATION OF ALL ND EQUIPMENT PRIOR TO ROUGH-IN.

ND SHOP DRAWINGS FROM OTHER TRADES AND EQUIPMENT TO COORDINATE INGLY.

COMPLY WITH ALL CURRENT APPLICABLE CODES AND GOVERNING AGENCIES HAVING

REQUIRED PER IBC, SHALL BE DESIGN-BUILD BY OWNER'S/GC'S FIRE ALARM SHALL BE IN ACCORDANCE WITH NFPA 72. FIRE ALARM CONTRACTOR SHALL MINGS TO AHJ FOR REVIEW AND APPROVAL. FIRE ALARM CONTRACTOR IS TING AND VERIFYING THAT THE AUDIBILITY OF THE FIRE ALARM SYSTEM MEETS A BOVE AMBIENT NOISE LEVELS. ADD HORNS WHERE REQUIRED TO MAINTAIN MINIMUM

I ALL PIPING THAT PENETRATES RATED WALLS. METHOD OF FIRE STOP SHALL MEET TO ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE RATED WALLS. THIS ROVIDE FIRE RATED ENCLOSURES AROUND ALL ROUGH-IN BOXES, PANELS, ETC. FIRE RATED WALLS AND SHALL FIRE CAULK ALL OPENINGS IN RATED ASSEMBLIES.

RACTOR SHALL PROVIDE CONDUIT, TRENCH, AND BACKFILL FOR ELECTRICAL SERVICE MAIN SERVICE TO UTILITY POINT OF ELECTRICAL SERVICE. ELECTRICAL OORDINATE THE INSTALLATION OF THE ELECTRICAL SERVICE ENTRANCE WITH

RACTOR SHALL PROVIDE CONDUIT. TRENCH. AND BACKFILL FOR PRIMARY PHONE ROM THE TELEPHONE TERMINAL BOARD OR CABINET TO THE PHONE COMPANY AND OF SERVICE. COORDINATE WITH LOCAL UTILITY COMPANIES.

D STANDARDS

LL COMPLY WITH APPLICABLE LOCAL AND STATE CODES AND ORDINANCES, WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND WITH THE POWER, TELEPHONE, AND CATV COMPANIES FURNISHING SERVICES TO THIS

OF THE FOLLOWING INDUSTRY STANDARDS, SPECIFICATIONS, AND CODES ARE

CTRICAL MANUFACTURER'S ASSOCIATION STANDARDS. CTRICAL CODE, INCLUDING LOCAL AMENDMENTS. RATORIES INCORPORATED STANDARDS.

A BID FOR ELECTRICAL WORK, THE CONTRACTOR SHALL VISIT THE SITE OF THE TION AND SHALL THOROUGHLY ACQUAINT HIMSELF WITH EXISTING UTILITIES, AND TO BE ENCOUNTERED, ETC. ALLOWANCE WILL NOT BE MADE FOR NONCOMPLIANCE AFTER BIDDING. TION SHALL MEET THE EXISTING CONDITIONS.

OF MATERIAL

ND EQUIPMENT TO THE PROJECT IN THE MANUFACTURER'S ORIGINAL, UNOPENED, PROTECT AGAINST MOISTURE, TAMPERING, OR DAMAGE FROM IMPROPER HANDLING ACTOR SHALL PROTECT AND BE RESPONSIBLE FOR ANY DAMAGE TO WORK OR ACCEPTANCE BY THE OWNER, AND SHALL MAKE GOOD WITHOUT COST TO THE OR LOSS THAT MAY OCCUR DURING THIS PERIOD.

DELIVERY OF MATERIALS AND EQUIPMENT TO THE JOB SITE IN ORDER TO MINIMIZE BETWEEN DELIVERY AND INSTALLATION. ANY MATERIAL WHICH MAY BE AFFECTED BY THE WEATHER WHILE IN TRANSIT OR ECT SITE. ANY MATERIAL FOUND DEFECTIVE OR NOT INSTALLED IN ACCORDANCE OCUMENTS MAY BE REJECTED BY THE ENGINEER.

REE FROM ACCUMULATION OF WASTE MATERIALS, OR RUBBISH CAUSED BY UNDER THIS DIVISION OF THE SPECIFICATIONS. AT THE COMPLETION OF THE WORK MATERIALS, TOOLS, ETC., AND LEAVE THE PREMISES BROOM-CLEAN.

<u>ND FITTING</u> TION AND BACK FILLING REQUIRED FOR WORK PERFORMED UNDER THIS DIVISION OF USE EXCAVATED MATERIALS FOR BACKFILL UNLESS OFF SITE MATERIALS ARE

TION, CUTTING, FITTING, REPAIRING, AND FINISHING OF THE WORK NECESSARY FOR THE EQUIPMENT OF THIS SECTION. HOWEVER, NO CUTTING OF THE WORK OF ANY STRUCTURAL MEMBERS SHALL BE DONE WITHOUT THE CONSENT OF THE

TE THE GENERAL ARRANGEMENT AND LOCATIONS OF THE ELECTRICAL WORK. DATA DRAWINGS ARE AS ACCURATE AS PLANNING CAN DETERMINE, BUT FIELD DIMENSIONS, LOCATIONS, LEVELS, ETC., TO SUIT FIELD CONDITIONS IS REQUIRED. FURAL, STRUCTURAL, AND MECHANICAL DRAWINGS AND ADJUST ALL WORK TO MEET CONDITIONS SHOWN. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE WINGS. DISCREPANCIES BETWEEN DIFFERENT PLANS, OR BETWEEN DRAWINGS AND EGULATIONS AND CODES GOVERNING THE INSTALLATION SHALL BE BROUGHT TO THE GINEER IN WRITING BEFORE THE DATE OF BID OPENING. IF DISCREPANCIES ARE CONTRACTOR SHALL BID THE GREATER QUANTITY OR BETTER QUALITY, AND MENTS WILL BE MADE AFTER CONTRACT AWARD. CONTRACTOR SHALL BE MEASURE AND CONFIRM MOUNTING HEIGHTS AND LOCATION OF ELECTRICAL ECT TO COUNTERS, RADIATION, ETC. DO NOT SCALE DISTANCES OFF THE USE ACTUAL BUILDING DIMENSIONS.

<u>CONTRACTORS</u>

OTHER TRADES SO THAT THE INSTALLATION OF THE ELECTRICAL OUTLETS AND ROPERLY COORDINATED. CONDUIT, LIGHTING FIXTURES, AND OTHER EQUIPMENT VERIFIED WITH OTHER TRADES TO AVOID CONFLICT WITH THE PIPING, DUCTWORK, HER OBSTRUCTIONS. LOCATIONS OF THE OUTLET BOXES AND DETERMINE THAT THEY HAVE NOT BEEN

INSTALLATION OF MATERIALS OF OTHER TRADES. ATION OF THE TRENCHES AND CONDUITS FOR ELECTRICAL AND TELEPHONE UTILITY ENERAL CONTRACTOR. D PLUMBING EQUIPMENT CONNECTION REQUIREMENTS WITH HVAC AND PLUMBING

RACTOR SHALL MAINTAIN A SET OF DRAWINGS AT THE JOB SITE FOR THE

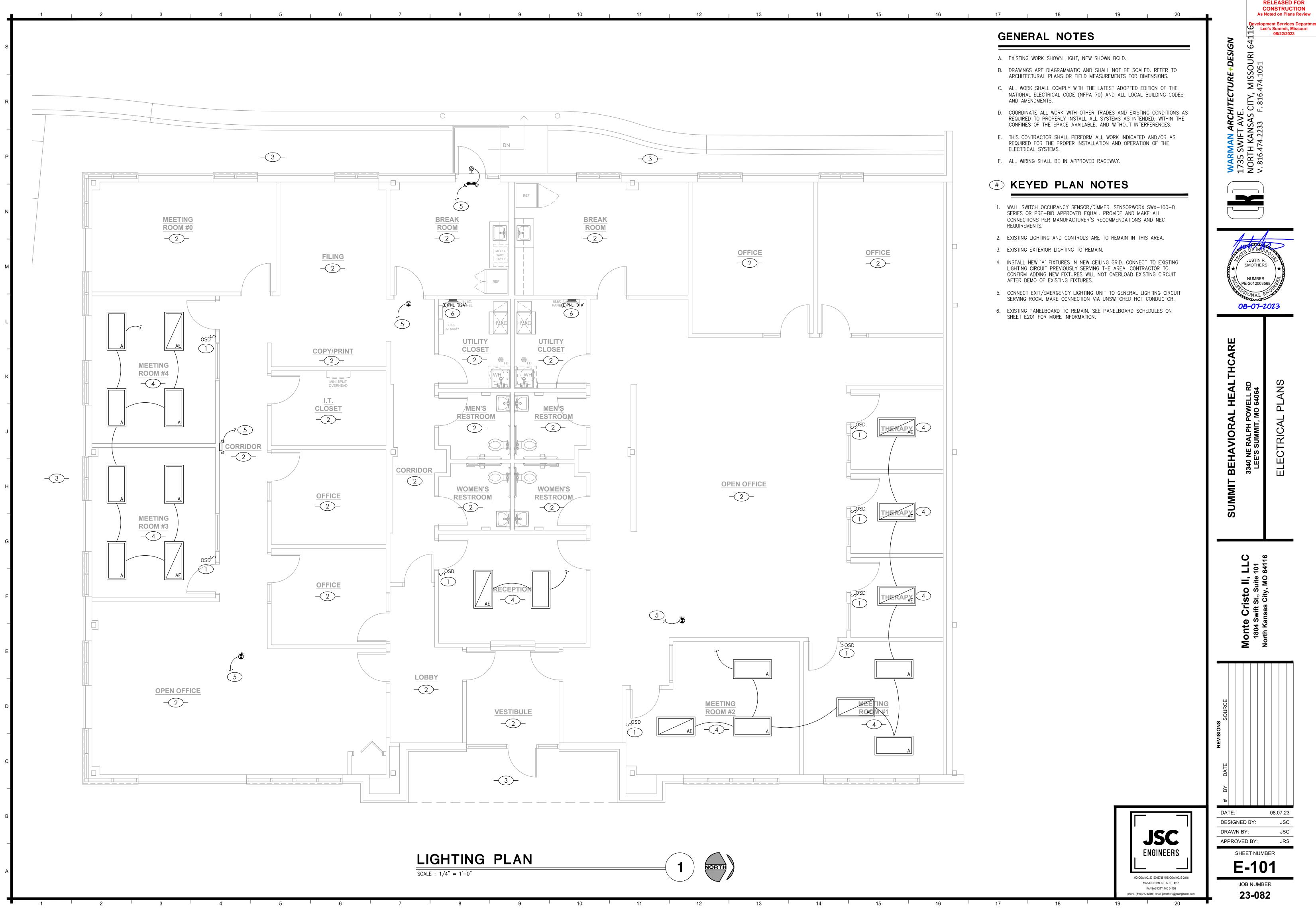
F MAINTAINING A RECORD OF ALL WORK INSTALLED AND TO SHOW ANY DEVIATIONS CATED ON THE DRAWINGS. F THE PROJECT, ONE SET OF REPRODUCIBLE DRAWINGS, SHOWING ALL RECORD DELIVERED TO THE OWNER FOR ACCEPTANCE PRIOR TO FINAL PAYMENT.

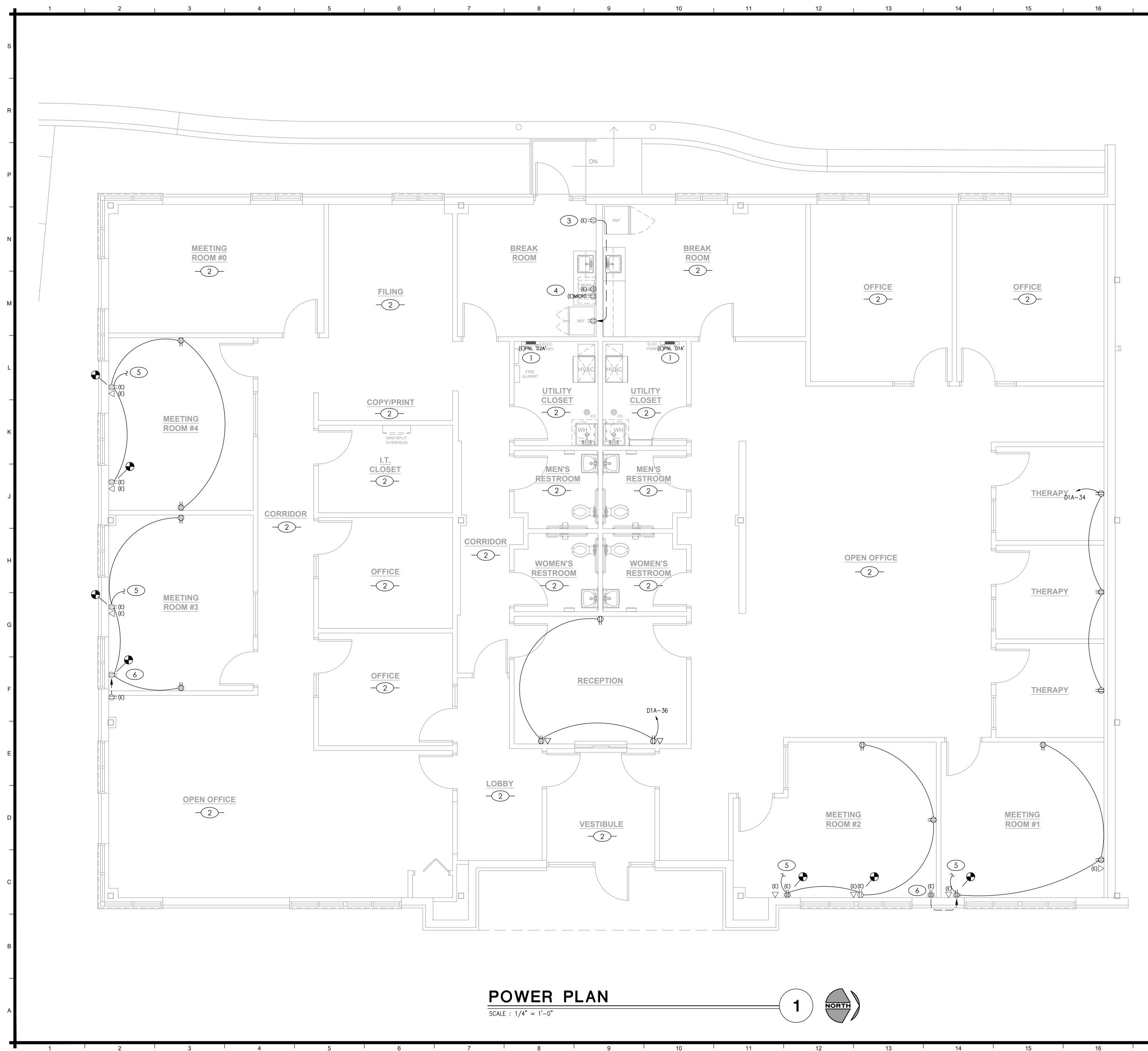
8 9 1 10 11

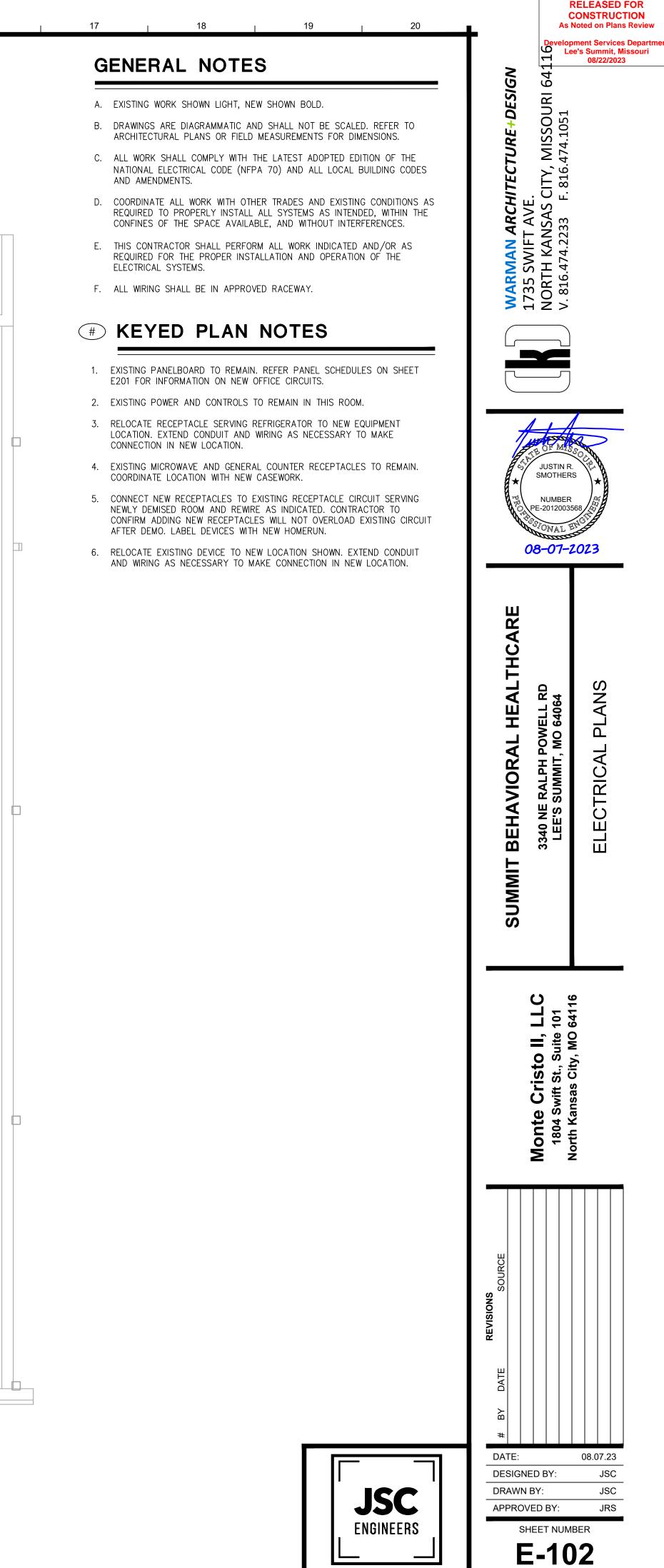
- ENGINEER DETERMINING EQUAL MATERIALS WILL BE FINAL. 2. THE CONTRACTOR SHALL SUBMIT (3) IDENTICAL BOUND SETS OF SHOP DRAWINGS ON THE FOLLOWING ITEMS TO THE G.C.:
- A. LIGHTING FIXTURE CUTS AND PERFORMANCE DATA. B. OUTLINE DRAWINGS AND DATA SHEETS OF EACH PANELBOARD, LOAD CENTERS, AND DISTRIBUTION PANELS
- C. OUTLINE DRAWINGS OF ALL SWITCH GEAR COMPONENTS. D. WIRING DEVICES AND COVERPLATES.
- E. ALL CIRCUIT BREAKERS INSTALLED IN PANELBOARDS, LOAD CENTERS, AND DISTRIBUTION PANELS.
- <u>C. SYSTEM GROUNDING</u> 1. GROUNDING SHALL COMPLY WITH REQUIREMENTS OF ARTICLE 250. ALL EXPOSED NONCURRENT CARRY METALLIC PARTS OF ELECTRICAL EQUIPMENT, METALLIC RACEWAY SYSTEMS, METALLIC CABLE ARMOR, GROUNDING CONDUCTOR OF NONMETALLIC SHEATHED CABLES, GROUNDING CONDUCTOR IN NONMETALLIC RACEWAYS, AND GROUNDED CONDUCTORS OF THE WIRING SYSTEM SHALL BE GROUNDED.
- 2. GROUNDED CONDUCTOR (NEUTRAL) OF THE WIRING SYSTEM SHALL BE CONNECTED TO THE SYSTEM GROUNDING CONDUCTOR AT A SINGLE PLACE IN EACH SYSTEM BY REMOVABLE BONDING JUMPERS, SIZE ACCORDING TO THE APPLICABLE PROVISIONS OF THE NATIONAL ELECTRICAL CODE. THE GROUNDED CONDUCTOR (NEUTRAL) TO THE GROUNDING CONDUCTOR CONNECTION SHALL BE LOCATED IN THE ENCLOSURE FOR THE SYSTEM'S OVERCURRENT PROTECTION OR WHERE OTHERWISE INDICATED ON THE
- PLANS OR SPECIFICATIONS. 3. A GROUND BUS SEPARATE FROM THE NEUTRAL BUS SHALL BE PROVIDED IN ALL DISTRIBUTION PANELS AND PANELBOARDS. PROPER TORQUE ON GROUND BUS SHALL BE VERIFIED, PER MANUFACTURER'S RECOMMENDATIONS, PRIOR TO ENERGIZING EQUIPMENT.
- 4. GROUND BUSES AND NEUTRAL BUSES IN ALL DISTRIBUTION PANELS, LOAD CENTERS, PANELBOARDS, AN THOSE PROVIDED IN ANY EQUIPMENT SHALL BE ISOLATED EXCEPT WHERE REQUIRED TO BE CONNECTED AS SPECIFIED ABOVE FOR THE SERVICE ENTRANCE
- 5. WHEN INDICATED ON THE DRAWINGS, EQUIPMENT GROUNDING CONDUCTORS SHALL BE EXTENDED FROM THE GROUND BUS IN THE DISTRIBUTION EQUIPMENT TO THE RECEPTACLE, FIXTURE OR DEVICE LUGS WHERE THEY ARE PROVIDED. WHERE LUGS ARE NOT PROVIDED, EQUIPMENT GROUNDING CONDUCTORS SHALL BE CONNECTED TO EQUIPMENT ENCLOSURES. THE CONNECTIONS SHALL BE ARRANGED SUCH TI REMOVAL OF THE RECEPTACLE, EQUIPMENT GROUND CONDUCTORS, OR GROUND JUMPERS FROM GROUNI BUSING SHALL NOT AFFECT THE GROUND SYSTEM.
- 6. RACEWAYS MAY NOT BE USED AS A GROUNDING CONDUCTOR FOR POWER AND LIGHTING CIRCUITS. AL CONDUIT SHALL HAVE SEPARATE CODE SIZED GREEN GROUND WIRE INSTALLED IN THE CONDUIT TO INSURE A CONTINUOUS GROUNDING PATH.
- 7. IN INACCESSIBLE LOCATIONS, MAKE CONNECTIONS BY EXOTHERMIC WELD PROCESS. 8. IN ACCESSIBLE LOCATIONS, CONNECTIONS SHALL BE MADE WITH BOLTED THROUGH, APPROVED SOLDERLESS BRONZE GROUNDING DEVICES.
- <u>D. WIRE</u> 1. CONDUCTOR SIZES SHOWN ON THE DRAWINGS ARE BASED ON COPPER WIRE. UNLESS OTHERWISE SPECIFIED, ALL WIRE SHALL BE TYPE XHHW OR SE FOR FEEDERS OR BRANCH CIRCUITS LARGER THAN AWG, TYPE THHN/THWN INSULATION FOR FEEDERS AND BRANCH CIRCUITS 4 AWG AND SMALLER. ALL BRANCH CIRCUIT WIRING SHALL BE COPPER. A. ALUMINUM CONDUCTORS MAY BE UTILIZED FOR SERVICE ENTRANCE AND PANEL FEEDERS. CONDUCTOR
- SHALL BE ALUMINUM ALLOY AA-8000 SERIES. 2. THE WIRES SHALL BE MARKED WITH COLOR TO SIMPLIFY CIRCUIT IDENTIFICATION. UNLESS OTHERWISE REQUIRED BY LOCAL ORDINANCES GROUND WIRES SHALL BE GREEN, NEUTRAL WIRES SHALL BE
- 120V-WHITE [277V-GREY]; LIVE WIRES 480Y/277V SHALL BE BROWN (PHASE A), ORANGE (PHASE B), AND YELLOW (PHASE C); AND LIVE WIRES 208Y/120V AND 120/240V SHALL BE BLACK (PHASE A), RE (PHASE B). AND BLUE (PHASE C). WHERE BOTH 208Y/120V AND 120/240V EXIST IN THE SAME BUILDI THE CONDUCTORS OF EACH CONFIGURATION SHALL BE SEPARATELY IDENTIFIED (NOT THE SAME COLOR "HIGH-LEG" PHASE OF DELTA SYSTEM SHALL ALWAYS BE MARKED ORANGE. CIRCUIT SHALL BE LABELE IN EACH J-BOX. A. ALL CONDUCTORS SHALL BE RATED 600 VOLT.
- 3. SPLICES IN EXTERIOR PULL BOXES AND MANHOLES SHALL BE WEATHERPROOF USING "SCOTCHCAST SPLICE KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS WITH "DUCTSEAL" OR APPROVED EQUAL.
- 4. PROVIDE SOLID CONDUCTOR FOR 10 AWG AND SMALLER. 5. NO WIRE SHALL BE INSTALLED IN THE CONDUIT SYSTEM UNTIL THE CONDUIT SYSTEM IS COMPLETE. US MINERALAC NO. 100 OR EQUIVALENT AS A LUBRICANT TO FACILITATE THE INSTALLATION OF THE CONDUCTORS IN THE CONDUIT SYSTEM.
- 6. MC CABLE WITH COPPER CONDUCTORS AND GROUND WIRE MAY BE USED WHERE PERMITTED.
- E. CONDUIT 1. ALL WIRING SHALL BE INSTALLED IN LISTED METALLIC CONDUIT EXCEPT AS PERMITTED IN OTHER SECTIONS. RGS, WITH A 20 MIL PVC COATING WILL BE USED WHEN IN CONTACT WITH EARTH. IMC MA BE USED IN INDOOR LOCATIONS NOT IN CONTACT WITH THE EARTH. EMT MAY BE USED IN INDOOR LOCATIONS NOT IN CONTACT WITH EARTH. NOT IN CONCRETE SLABS OR WALLS AND NOT SUBJECT TO DAMAGE. PVC MAY BE USED IN OR BELOW CONCRETE AND DIRECT BURIED IN EARTH. FLEXIBLE STEEL CONDUIT SHALL BE USED FOR INDOOR FINAL CONNECTIONS TO EQUIPMENT IN LENGTHS NOT TO EXCEED 72". LIQUID-TIGHT FLEXIBLE STEEL CONDUIT SHALL BE FOR OUTDOOR FINAL CONNECTIONS TO EQUIPMENT NOT TO EXCEED 48".
- 2. WHERE CONDUIT ENTERS OUTLET BOXES, FIXTURES OR CABINETS, FIRMLY FASTEN WITH STEEL SET SCRE COMPRESSION CONNECTORS, OR DOUBLE LOCKNUTS FOR GRC. ALL CONNECTIONS SHALL HAVE BUSHING OR INSULATED THROAT CONNECTORS. FIRMLY FASTEN CONDUIT TO THE BUILDING CONSTRUCTION. RUN EXPOSED CONDUIT PARALLEL TO THE BUILDING LINES, SUPPORTED BY APPROPRIATE HANGERS (UNISTRU T & B OR APPLETON, OR EQUAL).
- 3. COVER METALLIC CONDUIT IN CONTACT WITH EARTH WITH POLYETHYLENE TAPED SPIRAL WRAPPED, 1/2 LAPPED TO PROVIDE 20 MIL. THICKNESS. TAPE SHALL BE SCOTCH NO. 50 TAPE. CONDUIT AND DUCT NOT UNDER BUILDINGS AND FEEDER DUCTS SHALL BE INSTALLED PER N.E.C. 300-5. MAKE JOINTS WITH COMPOUND TO BE WATERTIGHT.
- 4. SCHEDULE 40 PVC CONDUIT SHALL BE PERMITTED UNDERGROUND WITH PROPER FITTINGS, ALL UL APPROVED AND CEMENTED JOINTS. PENETRATIONS THROUGH FLOOR SLABS AND BENDS GREATER THAN 22° SHALL BE WRAPPED RIGID GALVANIZED STEEL ELBOWS.
- 5. FITTINGS AND CONDUIT BODIES SHALL BE STEEL. DIECAST FITTINGS ARE NOT ACCEPTABLE.
- 6. CONDUIT SIZES SHALL BE AS REQUIRED BY CODE AND AS INDICATED OR SPECIFIED. 7. ALL EMPTY CONDUIT SYSTEMS SHALL HAVE A 200 LB. TEST NYLON PULL STRING TO FACILITATE
- INSTALLATION OF FUTURE WIRE. 8. WIRING, CONDUITS, AND OUTLETS SHALL BE CONCEALED WITH THE BUILDING STRUCTURE, EXCEPT THAT
- CERTAIN MOTOR AND LIGHTING FEEDER CONDUITS MAY BE RUN EXPOSED IN CERTAIN AREAS AS INDICATED ON THE DRAWINGS.
- 9. CONDUIT PENETRATION THROUGH ROOF SHALL HAVE ROOF FLASHING WITH CAULK TYPE COUNTER FLASHING SLEEVE. INSTALLATION SHALL BE WATERTIGHT.
- 10. CONDUITS SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO THE STRUCTURE.

- 1. EACH SWITCH, LIGHT, RECEPTACLE OR OTHER OUTLET, SHALL BE PROVIDED WITH A CODE SIZED, STEEL OUTLET BOX. JUNCTION AND PULL BOXES SHALL BE METAL AND CODE SIZED. 2. BOXES INSTALLED IN POURED CEMENT FLOORS SHALL BE FLUSH TYPE CAST IRON OR STEEL WITH WATERTIGHT GASKETED COVERS. WHERE BOXES ARE INSTALLED IN FLOORS WITH TILE OR CARPET FLOO COVERING, COVERS SHALL BE OF THE RECESSED TYPE TO ACCOMMODATE THE FLOOR COVERING.
- 3. BOXES INSTALLED FOR THE ALARM, COMPUTER, AND SECURITY SYSTEM SHALL BE PROVIDED WITH APPROPRIATE COVER PLATES.
- 4. BOXES FOR TELEPHONE, COMPUTER, T.V., FIRE ALARM, SECURITY, AND SIMILAR SYSTEMS SHALL BE MINIMUM 2-1/8" DEEP.

12 13 14 15	16 17 18 19 20	RELEASED FOR CONSTRUCTION As Noted on Plans Review
ELECTRICAL SPECIFICATIONS		Development Services Departm Used Services
 PART II – PRODUCTS AND EXECUTION A. MATERIALS 1. ALL MATERIALS SHALL BE NEW AND OF QUALITY AS SPECIFIED ON THE PLANS OR SPECIFICATIONS AND MUST CARRY THE UNDERWRITER'S LABORATORIES APPROVAL COVERING THE PURPOSE FOR WHICH THEY ARE USED, IN ADDITION TO MEETING ALL REQUIREMENTS OF THE CURRENT APPLICABLE CODES AND REGULATIONS. B. SHOP DRAWINGS AND APPROVALS 1. THE ITEMS SPECIFIED HEREIN AND ON DRAWINGS ARE USED AS A STANDARD OF QUALITY. ANY MATERIALS OF EQUAL QUALITY AND AESTHETIC VALUE WILL BE GIVEN CONSIDERATION AS A SUBSTITUTE FOR THE MATERIALS SPECIFIED. NO APPROVAL WILL BE GIVEN TO A SPECIFIC CATALOG NUMBER, MODEL, OR TYPE OF EQUIPMENT, PRIOR TO BIDDING. AFTER BIDDING, THE DECISION OF THE ARCHITECT AND/OR ENGINEER DETERMINING EQUAL MATERIALS WILL BE FINAL. 2. THE CONTRACTOR SHALL SUBMIT (3) IDENTICAL BOUND SETS OF SHOP DRAWINGS ON THE FOLLOWING ITEMS TO THE G.C.: A. LIGHTING FIXTURE CUTS AND PERFORMANCE DATA. B. OUTLINE DRAWINGS OF ALL SWITCH GEAR COMPONENTS. C. OUTLINE DRAWINGS OF ALL SWITCH GEAR COMPONENTS. D. WIRING DEVICES AND COVERPLATES. E. ALL CIRCUIT BREAKERS INSTALLED IN PANELBOARDS, LOAD CENTERS, AND DISTRIBUTION PANELS. C. SYSTEM GROUNDING 	 <u>G WIRING DEVICES (COMMERCIAL)</u> WALL SWITCHES SHALL BE SPECIFICATION GRADE AC SILENT TYPE SWITCHES, 20A 120/277 VOLT. RECEPTACLES SHALL BE SPECIFICATION GRADE, DUPLEX TYPE. NEMA5–20R, 20 AMPERE, 120VOLT GROUNDED TYPE. SPECIAL APPLICATION RECEPTACLES SHALL BE INDICATED ON PLANS. MOUNT WITH THE GROUND DOWN. DEVICE PLATES SHALL BE EQUAL TO SIERRA SMOOTH-LINE PLASTIC WALL PLATES. COLOR SHALL BE WHITE, UNLESS OTHERWISE NOTED. RECEPTACLES IN OUTDOOR AND WET LOCATIONS SHALL BE INSTALLED WITH A HINGED OUTLET COVER/ENCLOSURE CLEARLY MARKED AND U.L. LISTED SUITABLE FOR WET LOCATIONS WHILE IN USE, EQUAL TO TAYMAC SPECIFICATION GRADE. <u>J. PANEL BOARDS</u> CIRCUIT BREAKER TYPE AS INDICATED ON DRAWINGS. UNLESS INDICATED OTHERWISE, ALL PANELS SHALL HAVE PANEL BOARD TYPE CONSTRUCTION WITH BOLT-ON CIRCUIT BREAKERS FOR 30 PANELS MANUFACTURERS SHALL BE GENERAL ELECTRIC, SQUARE D, SEIMENS, CUTLER-HAMMER WITH VOLTAGE, SIZES, AND RATINGS AS INDICATED ON DRAWINGS. THE CIRCUIT BREAKERS SHALL BE OPERABLE IN ANY POSITION AND BE REMOVABLE FROM THE FRONT OF THE PANEL BOARD WITHOUT DISTURBING THE ADJACENT UNITS. BRANCH BREAKERS SHALL BE OF SUCH DESIGN THAT COMBINATION OF SINGLE-POLE, DOUBLE-POLE, AND THREE-POLE BREAKERS CAN BE ASSEMBLED ON THE SAME PANEL. EACH BRANCH CIRCUIT SHALL BE CLEARLY NUMBERED. BRANCH AND MAIN TERMINALS SHALL BE SOLDERLESS TYPE. HANDLE TIES TO FORM MULTI-POLE BREAKERS NOT ACCEPTABLE. K. LIGHTING FIXTURES 	WARMAN ARCHITECTURE+DES 1735 SWIFT AVE. NORTH KANSAS CITY, MISSOUR V. 816.474.2233 F. 816.474.1051
 GROUNDING SHALL COMPLY WITH REQUIREMENTS OF ARTICLE 250. ALL EXPOSED NONCURRENT CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT, METALLIC RACEWAY SYSTEMS, METALLIC CABLE ARMOR, GROUNDING CONDUCTOR OF NONMETALLIC SHEATHED CABLES, GROUNDING CONDUCTOR IN NONMETALLIC RACEWAYS, AND GROUNDED CONDUCTORS OF THE WIRING SYSTEM SHALL BE GROUNDED. GROUNDED CONDUCTOR (NEUTRAL) OF THE WIRING SYSTEM SHALL BE CONNECTED TO THE SYSTEM GROUNDING CONDUCTOR AT A SINGLE PLACE IN EACH SYSTEM BY REMOVABLE BONDING JUMPERS, SIZED ACCORDING TO THE APPLICABLE PROVISIONS OF THE NATIONAL ELECTRICAL CODE. THE GROUNDED CONDUCTOR (NEUTRAL) TO THE GROUNDING CONDUCTOR CONNECTION SHALL BE LOCATED IN THE ENCLOSURE FOR THE SYSTEM'S OVERCURRENT PROTECTION OR WHERE OTHERWISE INDICATED ON THE PLANS OR SPECIFICATIONS. A GROUND BUS SEPARATE FROM THE NEUTRAL BUS SHALL BE PROVIDED IN ALL DISTRIBUTION PANELS AND PANELBOARDS. PROPER TORQUE ON GROUND BUS SHALL BE VERIFIED, PER MANUFACTURER'S RECOMMENDATIONS, PRIOR TO ENERGIZING EQUIPMENT. GROUND BUSES AND NEUTRAL BUSES IN ALL DISTRIBUTION PANELS, LOAD CENTERS, PANELBOARDS, AND THOSE PROVIDED IN ANY EQUIPMENT SHALL BE ISOLATED EXCEPT WHERE REQUIRED TO BE CONNECTED AS SPECIFIED ABOVE FOR THE SERVICE ENTRANCE WHEN INDICATED ON THE DRAWINGS, EQUIPMENT GROUNDING CONDUCTORS SHALL BE EXTENDED FROM THE GROUND BUS IN THE DISTRIBUTION EQUIPMENT TO THE RECEPTACLE, FIXTURE OR DEVICE LUGS WHERE THEY ARE PROVIDED. WHERE LUGS ARE NOT PROVIDED, EQUIPMENT GROUNDING CONDUCTORS SHALL BE CONNECTED TO EQUIPMENT ENCLOSURES. THE CONNECTIONS SHALL BE ARRANGED SUCH THAT REMOVAL OF THE RECEPTACLE, EQUIPMENT ERCLOSURES. THE CONNECTIONS SHALL BE ARRANGED SUCH THAT REMOVAL OF THE RECEPTACLE, EQUIPMENT GROUND CONDUCTORS, OR GROUND JUMPERS FROM GROUND BUSING SHALL NOT AFFECT THE GROUND SYSTEM. 	 PROVIDE ALL LIGHTING FIXTURES, WIRED AND CONNECTED. THE DRAWINGS INDICATE THE FIXTURES FOR EACH LOCATION. PROVIDE LAMPS FOR ALL FIXTURES. THE LAMPS SHALL BE BY THE SAME MANUFACTURER. VERIFY CEILING CONSTRUCTION BEFORE ORDERING RECESSED UNITS. PROVIDE PLASTER FRAMES AND HANGERS AS REQUIRED. CEILING CONSTRUCTION, ARCHITECTURAL ACCESSORIES, VOLTAGE, AND DRIVERS TO MEET THE EXISTING CEILING CONDITION. LIGHTING CONTROL FURNISH AND INSTALL TIME SWITCHES, PHOTOCELLS, CONTRACTORS AND FULL LIGHTING CONTROL SYSTEMS AS REQUIRED FOR LIGHTING CONTROLS INDICATED ON THE DRAWINGS. TIME SWITCHES SHALL BE EQUAL TO PARAGON, GENERAL ELECTRIC, TORK, OR INTERMATIC AND SHALL HAVE SIZE AND NUMBER OF POLES AS REQUIRED. PHOTOCELLS SHALL BE EQUAL TO TORK OR INTERMATIC WITH VOLTAGE AS INDICATED. TELEPHONE AND CABLE TELEVISION SYSTEMS TELEPHONE WALL OUTLETS SHALL CONSIST OF NO LESS THAN 2–1/8" DEEP BOXES MOUNTED 18" ABOVE THE FLOOR UNLESS OTHERWISE INDICATED. PROVIDE A TERMINAL MOUNTING BOARD FOR THE INCOMING SERVICE CABLE. CABLE TELEVISION OUTLETS SHALL CONSIST OF NO LESS THAN 2–1/8" DEEP BOXES MOUNTED 18" ABOVE THE FLOOR UNLESS OTHERWISE INDICATED. PROVIDE A TERMINAL MOUNTING BOARD FOR THE INCOMING SERVICE CABLE. CABLE TELEVISION OUTLETS SHALL CONSIST OF NO LESS THAN 2–1/8" DEEP BOXES MOUNTED 18" ABOVE THE FLOOR UNLESS OTHERWISE INDICATED. PROVIDE A TERMINAL MOUNTING BOARD FOR THE INCOMING SERVICE CABLE. CABLE TELEVISION OUTLETS SHALL CONSIST OF NO LESS THAN 2–1/8" DEEP BOXES MOUNTED 18" ABOVE THE FLOOR UNLESS OTHERWISE INDICATED. PROVIDE A TERMINAL MOUNTING BOARD FOR THE INCOMING SERVICE CABLE. GUARANTEE GUARANTEE ALL MATERIAL FURNISHED AND ALL WORKMANSHIP PERFORMED FOR A PERIOD OF ONE YEAR 	NUMBER PE-2012003568 BUILL ENCOME
 RACEWAYS MAY NOT BE USED AS A GROUNDING CONDUCTOR FOR POWER AND LIGHTING CIRCUITS. ALL CONDUIT SHALL HAVE SEPARATE CODE SIZED GREEN GROUND WIRE INSTALLED IN THE CONDUIT TO INSURE A CONTINUOUS GROUNDING PATH. IN INACCESSIBLE LOCATIONS, MAKE CONNECTIONS BY EXOTHERMIC WELD PROCESS. IN ACCESSIBLE LOCATIONS, MAKE CONNECTIONS SHALL BE MADE WITH BOLTED THROUGH, APPROVED SOLDERLESS BRONZE GROUNDING DEVICES. IN ACCESSIBLE LOCATIONS, CONNECTIONS SHALL BE MADE WITH BOLTED THROUGH, APPROVED SOLDERLESS BRONZE GROUNDING DEVICES. IN ACCESSIBLE LOCATIONS, CONNECTIONS SHALL BE MADE WITH BOLTED THROUGH, APPROVED SOLDERLESS BRONZE GROUNDING DEVICES. IN ACCESSIBLE LOCATIONS, CONNECTIONS OF SERVICE SOLDERLESS OTHERWISE SPECIFIED, ALL WIRE SHALL BE TYPE XHHW OR SE FOR FEEDERS OR BRANCH CIRCUITS LARGER THAN 4 AWG, TYPE THHN/THWN INSULATION FOR FEEDERS AND BRANCH CIRCUITS LARGER THAN 4 AWG, TYPE THHN/THWN INSULATION FOR FEEDERS AND BRANCH CIRCUITS 4 AWG AND SMALLER. ALL BRANCH CIRCUIT WIRNG SHALL BE COPPER. A. ALUMINUM CONDUCTORS MAY BE UTILIZED FOR SERVICE ENTRANCE AND PANEL FEEDERS. CONDUCTORS SHALL BE ALUMINUM ALLOY AA-8000 SERIES. THE WRES SHALL BE MARKED WITH COLOR TO SIMPLIFY CIRCUIT IDENTIFICATION. UNLESS OTHERWISE REQUIRED BY LOCAL ORDINANCES GROUND WRES SHALL BE GREEN, NEUTRAL WRES SHALL BE 120V-WHITE [277V-GREY]: LIVE WIRES 480Y/277V SHALL BE BROWN (PHASE A), ORANGE (PHASE B), AND YELLOW (PHASE C): AND LIVE WRES 208Y/120V AND 120/240V SHALL BE BLACK (PHASE B), AND YELLOW (PHASE C). WHERE SHOY/277V SHALL BE BLACK (PHASE A), RED (PHASE B), AND BLUE (PHASE C). WHERE BOTH 208Y/120V AND 120/240V EXIST IN THE SAME BUILDING, THE CONDUCTORS OF EACH CONFIGURATION SHALL BE SEPARATELY IDENTIFIED (NOT THE SAME COLORS). "HIGH-LEG" PHASE OF DELTA SYSTEM SOLD VOLT. SPLICES IN EXTERIOR PULL BOXES AND MANHOLES SHALL BE WEATHERPROOF USING "SCOTCHCAST" SPLICE KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS WITH "DUCTSEAL"	 GUARANIEE ALL MATERIAL FURNISHED AND ALL WORKMANSHIP PERFORMED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF WORK. ANY DEFECTS DEVELOPING WITHIN THIS PERIOD, TRACEABLE TO MATERIAL FURNISHED AS A PART OF THIS SECTION OR WORKMANSHIP PERFORMED HEREUNDER, SHALL BE MADE GOOD AT NO EXPENSE TO THE OWNER. THIS PROJECT INVOLVES CONSTRUCTION INSIDE AN EXISTING STRUCTURE. CONTRACTORS, BY SUBMITTING A BID ARE DEEMED TO BE COMPLETELY FAMILIAR WITH THE EXISTING CONDITIONS OF THE BUILDING AS IT INFLUENCES THE WORK DESCRIBED. NO CLAIMS FOR EXTRA COMPENSATION WILL BE CONSIDERED FOR EXISTING CONDITIONS VISIBLE OR REASONABLY INFERABLE FROM A CAREFUL EXAMINATION OF THE EXISTING CONDITIONS VISIBLE OR REASONABLY INFERABLE FROM A CAREFUL EXAMINATION OF THE EXISTING BUILDING CONDITIONS. CONTRACTOR SHALL INSPECT THE EXISTING FIELD CONDITIONS AT THE SITE AND THE CONTRACT DOCUMENTS PRIOR TO THE START OF ANY WORK TO DETERMINE WHAT EFFECT THE EXISTING CONDITIONS WILL HAVE ON THE WORK POTENTIAL. CONTRACTOR SHALL REPORT DISCREPANCIES TO THE ARCHITECT AND INCLUDE IN THE BID ALL COSTS REQUIRED TO MAKE THE WORK MEET EXISTING CONDITIONS. DEMOLITON: DISCONNECT, DEMOLISH, AND REMOVE ABANDONED MATERIALS AND EQUIPMENT INDICATED TO BE SALVAGED OR REMAIN. DISPOSAL AND OLEANUP: REMOVE FROM THE SITE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS AND CQUIFINENT NOT INDICATED TO RE SALVAGED. PROTECT MATERIALS INDICATED TO REMAIN. DERMOVED AND CLEARUP. REMOVE FROM THE SITE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS AND CLEANUP: REMOVE FROM THE SITE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS AND CLEANUP: REMOVE FROM THE SITE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS AND CLEANUP. TO TINDICATED TO REMAIN. 	SUMMIT BEHAVIORAL HEALTHCARE 3340 NE RALPH POWELL RD 1.EE'S SUMMIT, MO 64064 ELECTRICAL SPECIFICATIONS AND SYMBOLS
 SECTIONS. RGS, WITH A 20 MIL PVC COATING WILL BE USED WHEN IN CONTACT WITH EARTH. IMC MAY BE USED IN INDOOR LOCATIONS NOT IN CONTACT WITH THE EARTH. EATT MAY BE USED IN INDOOR LOCATIONS NOT IN CONTACT WITH EARTH, NOT IN CONCRETE SLABS OR WALLS AND NOT SUBJECT TO DAMAGE. PVC MAY BE USED IN OR BELOW CONCRETE AND DIRECT BURED IN EARTH. FLEXIBLE STEEL CONDUIT SHALL BE USED FOR INDOOR FINAL CONNECTIONS TO EQUIPMENT IN LENGTHS NOT TO EXCEED 72". LIQUID-TIGHT FLEXIBLE STEEL CONDUIT SHALL BE USED FOR UNDOOR FINAL CONNECTIONS TO EQUIPMENT NOT TO EXCEED 48". WHERE CONDUIT ENTERS OUTLET BOXES, FIXTURES OR CABINETS, FIRMLY FASTEN WITH STEEL SET SCREW, COMPRESSION CONNECTORS, OR DOUBLE LOCKNUTS FOR GRC. ALL CONNECTIONS SHALL HAVE BUSHINGS OR INSULATED THROAT CONNECTORS. FIRMLY FASTEN CONDUIT TO THE BUILDING CONSTRUCTION. RUN EXPOSED CONDUIT PARALLEL TO THE BUILDING LINES, SUPPORTED BY APPROPRIATE HANGERS (UNISTRUT, T & B OR APPLETON, OR EQUAL). COVER METALLIC CONDUIT IN CONTACT WITH EARTH WITH POLYETHYLENE TAPED SPIRAL WRAPPED, 1/2 LAPPED TO PROVIDE 20 MIL. THICKNESS. TAPE SHALL BE INSTALLED PER N.E.C. 300-5. MAKE JOINTS WITH COMPOUND TO BE WATERTIGHT. SCHEDULE 40 PVC CONDUIT SHALL BE PERMITTED UNDERGROUND WITH PROPER FITTINGS, ALL UL APPROVED AND CEMENTED JOINTS. PENETRATIONS THROUGH FLOOR SLABS AND BENDS GREATER THAN 22' SHALL BE AS REQUIRED BY CODE AND AS INDICATED OR SPECIFIED. FITTINGS AND CONDUIT SHALL BE PERMITTED UNDERGROUND WITH PROPER FITTINGS, ALL UL APPROVED AND UCHENTED JOINTS. PENETRATIONS THROUGH FLOOR SLABS AND BENDS GREATER THAN 22' SHALL BE AS REQUIRED BY CODE AND AS INDICATED OR SPECIFIED. MIRING, CONDUIT SOTIES SHALL BE STEEL LEDOWS. FITTINGS AND CONDUIT SHALL BE PERMITTED UNDERGROUND WITH PROPER FITTINGS, ALL UL APPROVED AND UNTER SHALL HAVE A 200 LB. TEST NYLON PULL STRING TO FACILITATE INSTALLATION OF FUTURE WRE. WIRING, CONDUIT SNEWS SHALL BE CONCEALED WITH THE BUILDING STRUCTURE, EXCEPT THAT CERTAIN MOTOR AND LIGTING FEDER CONDU		REVISIONS SOURCE SOURCE SOURCE SOURCE BOURCE SOURCE BOURCE SOURCE BOURCE SOURCE SOU
 BOXES INSTALLED FOR THE ALARM, COMPUTER, AND SECURITY SYSTEM SHALL BE PROVIDED WITH APPROPRIATE COVER PLATES. BOXES FOR TELEPHONE, COMPUTER, T.V., FIRE ALARM, SECURITY, AND SIMILAR SYSTEMS SHALL BE MINIMUM 2–1/8" DEEP. 12 13 14 15 	Image: Second State Sta	H H







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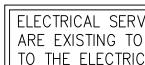
KANSAS CITY, MO 64108

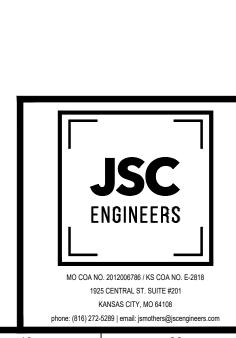
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JOB NUMBER

23-082

	ELECTRICAL	IGHTING SC	CHEDULE (OR EQUAL. VERIFY ALL	SELECTIONS AND FINISHES WITH OWNER AND ARCHITECT PRIOR TO ORDERING).	
FIXTURE TYPE N/	IAME MANUFACTURER VOLT	MOUNTING	LAMP TYPE	REMARKS	VOLT
A/AE LITH	HONIA 2BLT4-40L-ADSM-GZ10-LP830 32	RECESSED		DIMMABLE LED TROFFER- 3000K - 4000LM' PROVIDE WITH EMERGENCY BATTERY PACK FOR MIN 90MIN OF EMERGENCY OPERATION AT FULL OL	UTPUT MVOLT
	HONIA LHQM-LED-R-SD 5	SURFACE	INCLUDED LED EMER	GENCY EXIT EGRESS COMBO LIGHTING UNIT WITH RED FACE EXIT SIGN AND 90 MIN. BATTERY PACK	120
	HONIA ELA-B-T-QWP-L0309-SD 5	SURFACE	INCLUDED LED OUTE	OOR EMERGENCY REMOTE EGRESS LIGHTING UNIT	120
	HONIA ELM2-SD 5	SURFACE	INCLUDED LED EMER	GENCY EGRESS LIGHTING UNIT WITH 90 MIN. BATTERY PACK	120
	HONIA LE-S-W-1/2-R-EL-N 5	SURFACE		GENCY EXIT SIGN UNIT WITH RED LEGEND AND 90 MIN. BATTERY PACK - SELF-DIAGNOSTIC ES/ARROWS PER PLANS	120
PANELBOARD: D1A (EXISTING) BUS AMPS: 400A	AIC RATING: 65000 FULLY RATED	IE-SIDE LUGS: MECHANICAL EQUIPMENT GROUND BUS	PANELBOARD: D2A (EXIS BUS AMPS: 225A	AIC RATING: 65000 FULLY RATED EQUIPMEN	GS: MECHANICAL NT GROUND BUS
MAIN SIZE/TYPE: MLO VOLTS/PHASE: 208Y/120V, 3PH, 4W SECTION: 1	SERVES: MOUNTING: SURFACE LOCATION:		MAIN SIZE/TYPE: 200A MCB VOLTS/PHASE: 208Y/120V, 3PH, 4W SECTION: 1	SERVES: SOUTH OFFICES MOUNTING: SURFACE LOCATION: UTILITY CLOSET	
NO. A 2,500	GENE	DESCRIPTION CKT NO. RAL PURPOSE RCPTS 1 2	NO.	VOLTAMPS/PHASE WIRE BKR P P BKR WIRE VOLTAMPS/PHASE DESCRIPT A B C NO. AMP NO. A B C DESCRIPT ,500 Image: Comparison of the second	NO.
5 7 SPARE	2,500 1 20 EX 720 GENE 20 1 1 20 EX 500 PLUG		3 AC-1 5 7 DRINKING FOUNTAIN 9 EXHAUST FAN	2,500 EX 40 3 1 20 EX 1,100 REFRIGERATOR 800 2,500 EX 20 EX 1 20 EX 720 RECEPS 800 EX 20 1 20 EX 1,000 LIGHTING	4 6 8
11PHONE BOARD QUAD13GARBAGE DISPOSAL500	360 EX 20 1 1 20 EX 540 BREA	CROOM GFI / MICRO / DIS12RAL PURPOSE RCPTS 414	11 RECEPS	400 EX 20 1 1 20 EX 720 PHONE BOARD 720 EX 20 1 1 20 EX 720 PHONE BOARD 540 EX 20 1 1 20 EX 500 FURNACE 720 EX 20 1 1 20 EX 500 WATER HEATER	10 12 14 16
17EXHAUST FAN / TIME CLOCK19FURNACE400	400 EX 20 1 1 20 EX 1,200 SIGN/ EX 20 1 1 20 EX 720 0 0FFIC	IGIGENTRY LIGHTING18ERECEPTACLES20ERECEPTACLES22	17 LIGHTING	1,000 EX 20 1 2 20 EX 1,000 WATER HEATER 1,000 EX 20 1 2 20 EX 1,000 WATER HEATER 800 EX 20 1 1 20 EX 720 BREAKROOM RECI 800 EX 20 1 1 20 EX 1,500 PRINTER	EP 20
23 25 OFFICE 720	1,350 1 SPACE EX 20 1 1 20 20 1 <		23 FURNITURE	800 EX 20 1 1 20 EX 500 UNKNOWN LOAD 800 EX 20 1 1 20 EX 500 UNKNOWN LOAD 800 EX 20 1 1 20 EX 1,200 IT ROOM A/C 800 EX 20 1 1 20 EX 500 DAMPERS	24 26 28
29 OFFICE FURNITURE - FLOOR 31 HP UNITS 1,100 33	1,100 1 20 12 540 RCPT	30 R RCPT - TWISTLOCK 32 THERAPY ROOMS 34	33 PRINTER	800 EX 20 1 1 20 EX EX 720 SERVER ,000 EX 20 1 1 20 EX 720 SERVER ,000 EX 20 1 1 20 EX 720 SERVER 1,000 EX 20 1 1 30 EX 720 SERVER	30 32 34
35 2,500 39 2 41 NOT USABLE	2,500 EX 40 3 1 20 12 540 RCPT 2,500 EX 40 3 1 20 EX 1,350 PRINT 2,500 I I I I I NOT U	ER 38 SABLE 40	35PRINTER37LIGHTING39SIGN EAST41SIGN SOUTH / TIMECLOCK	Image: Note of the image of the im	36 38 MP 40
SUBTOTAL 7,720 9 TOTAL PHASE A - VA 13,590 LOAD	9,870 7,830 5,870 5,480 4,500 CONN. VA DF LOAD CONN. VA DF	SUBTOTAL	SUBTOTAL TOTAL PHASE A - VA 13,650	7,420 8,020 6,210 6,040 4,880 SUBTOTA OAD CONN. VA DF LOAD CONN. VA DF	<u>42</u> <u>AL</u>
AMPS113COOLINGTOTAL PHASE B - VA15,350HEATINGAMPS128LIGHTINGTOTAL PHASE C - VA12,330RECEPTAC	0 SIGN/DISP 1.25 1.25 KITCHEN 1.00		TOTAL PHASE B - VA 13,460 HI AMPS 112 LI	DOLING 1.00 REFRIG 1.00 ATING 0 SIGN/DISP 1.25 GHTING 1.25 KITCHEN 1.00 CEPTACLES 1.0/.5 EXISTING 40,010 1.00	
AMPS 103 MOTORS TOTAL PNLBD - VA 41,270 SUPP HEA AMPS 115 MISC EQUI	1.00 LRG MOTOR 1.25 AT 1.00 SHOW WNDW 1.25	TOTAL DEMAND 41,270 VA 115 A	AMPS 108 M TOTAL PNLBD - VA 40,010 SI	DTORS 1.00 LRG MOTOR 1.25 TOTAL DEM JPP HEAT 1.00 SHOW WNDW 1.25 TOTAL DEM SC EQUIP 1.00 LTG TRACK 1.00 Interview	/AND 40,010 VA 111 A
PANELBOARD NOTES CIRCUITS IN <i>ITALICS</i> = EXISTING LABELED			PANELBOARD NOTES CIRCUITS IN <i>ITALICS</i> = EXISTING L	ABELED LOAD TO REMAIN	
	PANEL	BOARD S	CHEDULES		
	SCALE : N/A			2	
			-		
				ELECTRICAL SERVICE ENTRANCE AND DISTRIBUTION EQUIPMENT ARE EXISTING TO REMAIN. NO MODIFICATIONS ARE BEING MADE TO THE ELECTRICAL DISTRIBUTION EQUIPMENT IN THIS SCOPE.	
				- THE ELECTRICAL DISTRIBUTION EQUILINE IN THIS SOUL.	
			~~~~		
			SINC SCALE : N/	<u>ALE LINE DIAGRAM</u>	1)
					Г





(	RELEASED FOR CONSTRUCTION Noted on Plans Review pment Services Department ee's Summit, Missouri 08/22/2023
NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER	
SUMMIT BEHAVIORAL HEALTHCARE 3340 NE RALPH POWELL RD LEE'S SUMMIT, MO 64064	ELECTRICAL SCHEDULES & DIAGRAMS
Monte Cristo II, LLC 1804 Swift St., Suite 101	North Kansas City, MO 64116
BAPPROVED BY: APPROVED BY: SHEET NUM BC-20 JOB NUMB 23-08	01 BER

23-082