

CHILD START - 2nd STREET

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL FEDERAL AND STATE LAWS, CURRENT LOCAL ORDINANCES AND BUILDING CODES, AND THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REPORT ANY DISCREPANCIES TO THE ARCHITECT AND OWNER BEFORE PROCEEDING WITH THE WORK.
- DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE (EITHER DIRECTLY OR THROUGH CONTRACTOR ARRANGEMENTS) ALL OPENINGS THROUGH FLOORS AND WALLS AS NECESSARY TO ROUTE ALL PIPING, CONDUIT, AND CONDUCTORS FOR THE VARIOUS BUILDING SYSTEMS. THE LOCATION OF THESE OPENINGS MUST CONSIDER STRUCTURAL MEMBERS AND THE STRUCTURAL INTEGRITY OF THE BUILDING IN THEIR PLACEMENT. THE CONTRACTOR SHALL COORDINATE WITH EACH RESPECTIVE SUBCONTRACTOR TO ASSURE THAT ROUTING OF EACH SYSTEM THROUGH THE BUILDING STRUCTURE HAS BEEN ACCOUNTED FOR IN THE PRICING.
- PROVIDE BLOCKING IN FRAME WALLS AS NECESSARY TO SECURE WALL MOUNTED EQUIPMENT, CASEWORK, TRIM, OR DEVICES INCLUDING OWNER FURNISHED ITEMS - VERIFY WITH OWNER.
- COORDINATE THE LOCATION AND INSTALLATION OF ALL MECHANICAL AND ELECTRICAL DEVICES, REGISTERS, FIXTURES, ETC. PRIOR TO INSTALLATION OF FINISH MATERIAL.
- ALL ELEVATIONS ARE REFERENCED ON THE FLOOR PLANS.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE WORKING HOURS, CONSTRUCTION SCHEDULE, JOB CONDITIONS, ACCESS TO THE SITE, AND UTILITY INTERRUPTIONS WITH THE OWNER.
- WHERE DIMENSIONS OR DRAWING CONDITIONS DO NOT CORRESPOND TO EXISTING CONDITIONS, SEEK CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING. VARIATIONS FROM PLANS CAUSED BY FIELD CONDITIONS WILL ONLY BE CONSIDERED FOR ADDITIONAL COSTS IF IT CAN BE DEMONSTRATED THAT THE CONTRACTOR WAS UNABLE TO FORESEE DIFFICULTY BECAUSE OF HIDDEN FACTORS.
- THE CONTRACTOR SHALL KEEP THE WORK AREA CLEAN AND FREE OF DEBRIS AND IS TO REMOVE ALL TRASH AND DEBRIS FROM THE CONSTRUCTION AREA DAILY. NO FLAMMABLE MATERIALS OR LIQUIDS MAY BE STORED IN THE EXISTING BUILDING.
- THE CONTRACTOR WILL SECURE THE SITE AS APPROPRIATE WHEN LEAVING EACH DAY.
- THE CONTRACTOR SHALL WARRANTY THE ENTIRE PROJECT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR (1) ONE YEAR FOLLOWING THE DATE OF SUBSTANTIAL COMPLETION.
- EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THEM OF ANY REPONSIBILITY FOR PERFORMING THEIR WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.
- PIPING LOCATED ABOVE GRADE AND INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN STAIRWAYS, AND EQUIPMENT ROOMS. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISHED AREAS.
- ALL DIMENSIONS ARE FROM FACE OF MASONRY, FACE OF CONCRETE, CENTER LINE OF STRUCTURAL STEEL OR FACE OF NEW WALL STUD, UNO.
- CAULK AT JUNCTURE OF INTERIOR FACES OF DOOR FRAMES, VIEW WINDOW FRAMES, EXTERIOR WINDOW FRAMES, CABINET WORK, AND CASEWORK WITH ADJACENT MATERIALS EVEN THOUGH JOINT MAY NOT BE VISIBLE.
- COORDINATE SIZE AND PROVIDE ALL HOUSEKEEPING PADS FOR ANY EQUIPMENT REQUIRING A PAD.
- NO PIPING, OR CONDUIT SHALL BE LEFT EXPOSED IN A FINISHED ROOM (STORAGE ROOM IS EXCEPTION). IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY STRUCTURAL, MECHANICAL/ELECTRICAL NEEDS AND PROVIDE CONCEALMENT. ITEMS MAY BE EXPOSED WHERE INDICATED ON MECHANICAL PLANS AND WHERE STRUCTURE IS EXPOSED.
- CONTRACTOR TO INFILL OPENINGS AND REPAIR / REPLACE FINISHES AT ALL LOCATIONS WHERE MECHANICAL, ELECTRICAL, OR PLUMBING DEVICES. EQUIPMENT, PIPING, CONDUIT, ETC. IS REMOVED FROM EXISTING BUILDING.
- THE FACILITY WILL REMAIN IN FULL OPERATION DURING THE COURSE OF DEMOLITION AND CONSTRUCTION. PROPER MEASURES SHOULD BE TAKEN TO ENSURE THE OPERATIONS ARE NOT INTERRUPTED OR COMPROMISED.
- THE EXISTING BUILDING SHALL BE PROTECTED FROM MOISTURE, DUST AND DEBRIS. INSTALL DUST PARTITIONS OR DRAPES AS REQUIRED AND/OR DIRECTED BY THE OWNER TO KEEP DUST AND MOISTURE FROM THE OPERATING AREAS OF THE FACILITY.
- THE CONTRACT SHALL MAINTAIN THE INTEGRITY OF THE BUILDING SECURITY AT ALL TIMES. THIS INCLUDES KEEPING THE BUILDING SECURE FROM PERSONS, ENVIRONMENTAL ELEMENTS OR HAZARDS. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE INTEGRITY OF ALL EXISTING SECURITY SYSTEMS.

ARCHITECTURAL LEGEND

ROOM NAME → ROOM NAME	
333A → ROOM NUMBER	
101	DOOR NUMBER - SEE DOOR SCHEDULE
1i	PARTITION TYPE - SEE PARTITION SCHEDULE
X A-X	WINDOW TYPE - SEE WINDOW ELEVATIONS
1.0	KEYNOTE - SEE KEYNOTE LEGEND
A	TOILET ACCESSORY TYPE - SEE TOILET ACCESSORY LEGEND
A B 1	COLUMN GRID REFERENCE
X A-X	BUILDING SECTION REFERENCE (DETAIL NUMBER / SHEET)
X A-X	WALL SECTION REFERENCE (DETAIL NUMBER / SHEET)
A-X	BUILDING ELEVATION REFERENCE (DETAIL NUMBER / SHEET)
X A-X	ENLARGED DETAIL REFERENCE (DETAIL NUMBER / SHEET)
X A-X	INTERIOR ELEVATION REFERENCE (DETAIL NUMBER / SHEET)
	METAL STUD WALL - SEE PLAN
	WOOD STUD WALL - SEE PLAN
	CONCRETE MASONRY WALL - SEE PLAN
	CAST-IN-PLACE CONCRETE WALL - SEE PLAN
FE	FIRE EXTINGUISHER ON BRACKET
FE	FIRE EXTINGUISHER CABINET

SHEET INDEX

SHEET #	SHEET NAME	REV #	REV DATE
GENERAL			
G-101	CODE FOOTPRINT		
G-102	CODE INFORMATION		
SITE			
SA-101	SITE PLAN		
ARCHITECTURAL			
A-101	FLOOR PLAN		
A-102	ENLARGED AREA PLAN		
A-311	SECTIONS		
A-501	DOOR SCHEDULE/DETAILS		
A-601	REFLECTED CEILING PLAN		
A-901	FINISH PLAN		
MECHANICAL			
M-001	MECHANICAL COVER SHEET		
M-101	MECHANICAL HVAC FLOOR PLANS		
M-102	MECHANICAL SPECIFICATIONS		
PLUMBING			
P-101	PLUMBING FLOOR PLAN		
ELECTRICAL			
E-001	ELECTRICAL COVER SHEET		
E-101	ELECTRICAL DEMO PLAN		
E-201	ELECTRICAL POWER IMPROVEMENT PLAN		
E-301	ELECTRICAL LIGHTING IMPROVEMENT PLAN		
E-401	ELECTRICAL DETAILS		
E-501	ELECTRICAL SCHEDULES		
E-601	ELECTRICAL SPECIFICATIONS		



PROJECT SITE LOCATION

OWNER:

CHILD START, INC.
2ND STREET HEAD START
1510 E. 2nd STREET
WICHITA, KS 67214
T: 316.269.1990
www.childstart.org

OWNER CONTACT:

DEE RANKIN
HEAD START PROGRAM DIRECTOR
1002 S. OLIVER
WICHITA, KS 67218
T: 316.682.1853 X 2282
E: drankin@childstart.org

ARCHITECT:

WDM ARCHITECTS P.A.
105 N WASHINGTON
WICHITA, KS 67202
T: (316) 262-4700
F: (316) 262-0002
wdmarchitects.com

CONTACT:

Stan Landwehr
E: slandwehr@wdmarchitects.com

MECHANICAL:

MKEC ENGINEERING
411 NORTH WEBB ROAD
WICHITA, KS 67206
T: (316) 684-9600
F: (316) 616-0241
www.mkec.com

CONTACT:

Richard Bartlett
E: rbartlett@mkec.com

ELECTRICAL:

MKEC ENGINEERING
411 NORTH WEBB ROAD
WICHITA, KS 67206
T: (316) 684-9600
F: (316) 616-0241
www.mkec.com

CONTACT:

Geoffrey Huff
E: ghuff@mkec.com



24 JANUARY 2024



WDM Architects P.A.
105 North Washington
Wichita, KS 67202-2815
T 316.262.4700
F 316.262.0002
wdmarchitects.com

CHILD START - 2nd STREET

1510 EAST 2ND STREET
WICHITA, KS 67214

PRINTS ISSUED

11-02-2023 FOR BIDDING
01-24-2024 FOR PERMIT

REVS.

NO.	DATE	DESC.
-----	------	-------

WDM No. drawn: rlf

23016 checked: sjl

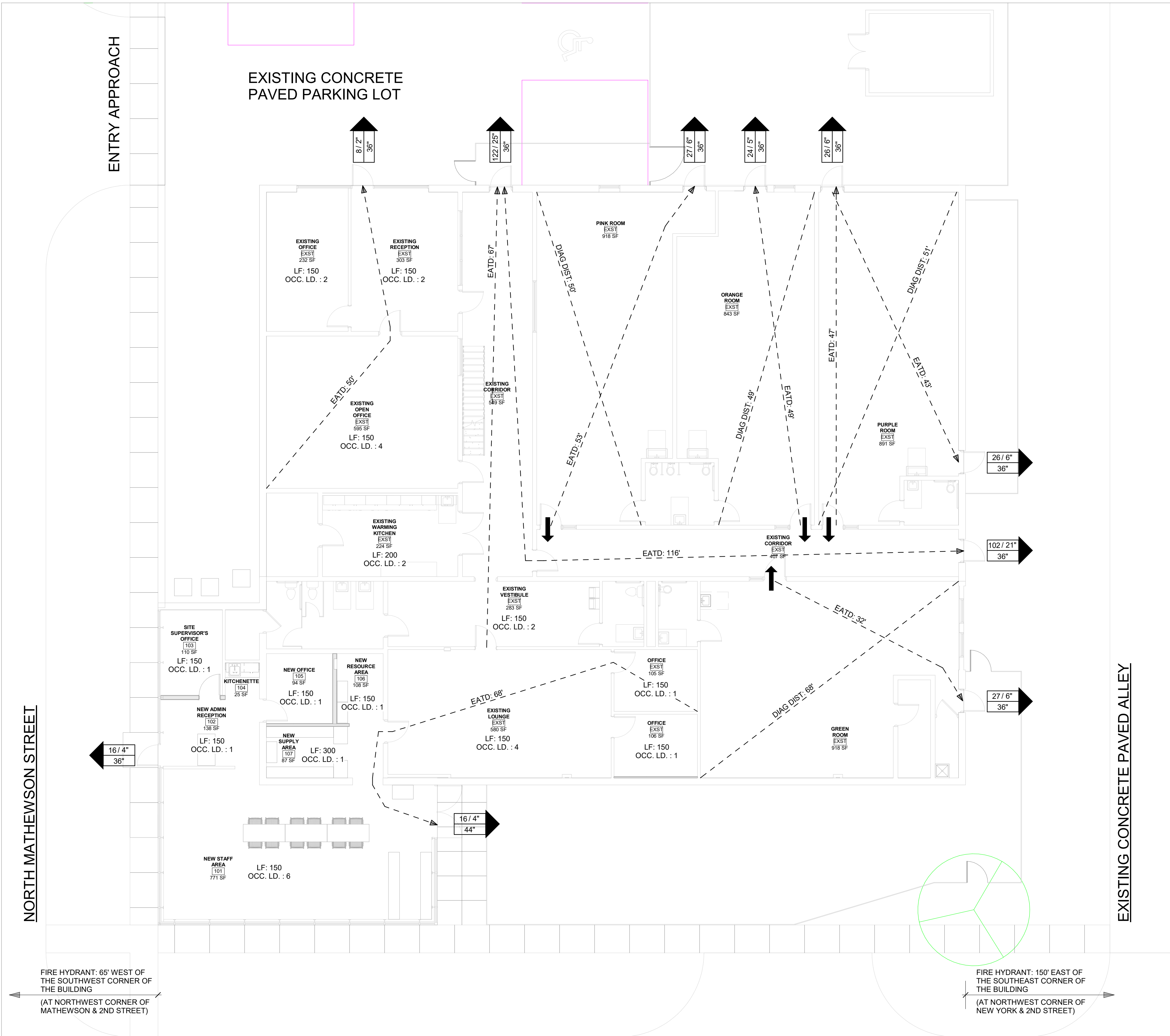
COVER SHEET

G-000

© copyright 2020

WDM Architects P.A.

C:\Users\slp\Documents\2016 Child Start at 2nd St - 02 - 01.dwg (11/02/2023 11:33:29 AM)



CODE SYMBOL LEGEND		
SYMBOL	DESCRIPTION	PROTECTION ELEMENTS
	REQUIRED EXIT OR EXIT ACCESS - INTERIOR	SPACES REQUIRING MORE THAN 1 EXIT & EXITS FROM FLOORS, PROVIDE EXIT SIGNS PER IBC SECTION 1011
	REQUIRED EXIT - EXTERIOR	OCCUPANTS / REQUIRED WIDTH PROVIDED WIDTH
	EGRESS COMPONENT (STAIRS, RAMPS, CORRIDORS)	OCCUPANTS / REQUIRED WIDTH PROVIDED WIDTH
ROOM NAME		
750 SF / A Load Factor: 15 Occ. Load: 50	ROOM OR AREA DESIGNATION	ROOM OCCUPANT LOAD CALCULATED IN ACCORDANCE WITH IBC SECTION 1004
	NON-PROTECTED EXIT PATH	NONE PER EXCEPTION OF FULLY SPRINKLERED B OCCUPANCY
	PROTECTED EXIT PATH (30 MINUTE CORRIDORS)	30 MINUTE FIRE PARTITION WALL CONSTRUCTION. 20-MINUTE RATED DOOR ASSEMBLIES, FIRE & SMOKE DAMPERS.
	PROTECTED EXIT PATH (1 HOUR CORRIDORS)	1 HOUR FIRE PARTITION WALL CONSTRUCTION. 20-MINUTE RATED DOOR ASSEMBLIES, FIRE & SMOKE DAMPERS.
	1 HOUR FIRE BARRIER (OCCUPANCY SEPARATION & INCIDENTAL USE AREAS)	1 HOUR FIRE BARRIER WALL CONSTRUCTION. 3/4-HOUR RATED DOOR ASSEMBLIES. FIRE DAMPERS.
	2 HOUR FIRE BARRIER (OCCUPANCY SEPARATION & SHAFT WALLS)	2 HOUR FIRE BARRIER WALL CONSTRUCTION. 1-1/2 HOUR RATED DOOR ASSEMBLIES. FIRE DAMPERS.
	SMOKE PARTITION (0 HOUR FIRE)	PER IBC SECTION 710
	1 HOUR FIRE/SMOKE BARRIER	PER IBC SECTION 709
	EXIT ACCESS TRAVEL DISTANCE	DISTANCE NOT TO EXCEED VALUE INDICATED IN IBC TABLE 1016.2
	FIRE EXTINGUISHER IN CABINET	
	FIRE EXTINGUISHER ON BRACKET	MAXIMUM TRAVEL DISTANCE TO EXTINGUISHERS AND MINIMUM RATING PER IBC SECTION 906
	FIRE EXTINGUISHER ON BRACKET CLASS K WET (i.e. KITCHEN USE)	
	STANDPIPE	WHERE REQUIRED, STANDPIPES SHALL COMPLY WITH IBC SECTION 905
	PUBLIC FIRE HYDRANT	



24 JANUARY 2024

wdm
ARCHITECTS

WDM Architects P.A.
105 North Washington
Wichita, KS 67202-2815
T 316.262.4700
F 316.262.0002
wdmarchitects.com

CHILD START - 2nd STREET

1510 EAST 2ND STREET
WICHITA, KS 67214

PRINTS ISSUED
11-02-2023 FOR BIDDING
01-24-2024 FOR PERMIT

REVS.		
NO.	DATE	DESC.

WDM No. **23016** drawn: Author
checked: Checker

CODE FOOTPRINT

G-101

CHILD START ON 2nd STREET INFO:

CODE ANALYSIS

DESIGN TEAM:

ARCHITECT:

WDM ARCHITECTS P.A.
105 N WASHINGTON
WICHITA, KS 67202
T: (316) 262-4700
F: (316) 262-0002
wdmarchitects.com

CONTACT:

Stan Landwehr
E: slandwehr@wdmarchitects.com

MECHANICAL:

MKEC ENGINEERING
411 NORTH WEBB ROAD
WICHITA, KS 67206
T: (316) 684-9600
F: (316) 616-0241
www.mkec.com

CONTACT:

Richard Bartlett
E: rbartlett@mkec.com

ELECTRICAL:

MKEC ENGINEERING
411 NORTH WEBB ROAD
WICHITA, KS 67206
T: (316) 684-9600
F: (316) 616-0241
www.mkec.com

CONTACT:

Geoffrey Huff
E: ghuff@mkec.com

PROJECT NAME AND LOCATION:

Child Start - 2nd Street
1510 East 2nd Street, Wichita, KS 67214

PROJECT JURISDICTION:

MABCD of Wichita - Sedgwick County, Kansas State Fire Marshal

PROJECT DESCRIPTION:

Partial Office Renovation of 1,412 SF of a 9,520 SF daycare facility.

LEGAL ADDRESS:

1510 East 2nd Street, Wichita, Ks 67214

APPLICABLE CODES:

International Building Code, 2018 Edition.
International Existing Building Code, 2018 Edition.
International Fire Code, 2012 Edition.
Uniform Fire Code, 2015 Edition
International Fuel Gas Code, 2018 Edition
International Mechanical Code, 2018 Edition.
Uniform Plumbing Code, 2015 Edition.
International Property Maintenance Code, 2012 Edition.
National Electrical Code, 2021 Edition.
National Fire Protection Association - NFPA-101: Life Safety Code, 2012 Edition.
2010 ADA Standard for Accessible Design
American National Standard Institute ANSI/ASME A-17.3 Safety Code for Elevators and Escalators
Wichita-Sedgwick County Unified Zoning Ordinance July 9, 2009 Edition
City of Wichita Sign Code November 2004 Edition

OCCUPANCY AND CONSTRUCTION DATA:

OCCUPANCY TYPE:		
IBC: Group	GROUP E, DAYCARE FACILITY	IBC-302.1
USE AND OCCUPANCY CLASSIFICATION:		
Other occupancy:	N/A	IBC-302.1 & Table 508.4
Incidental accessory occupancies:	N/A	IBC-Table 509
Nonseparated occupancies:	N/A	IBC 508.3
Required separations:	N/A	IBC-Table 508.4
TYPE OF CONSTRUCTION:		
Type:	IIIB	IBC-602
SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY:		
Fire sprinkler system:	Not required	IBC-900
Fire alarm and detection systems:	Provided	IBC-907
Included: Emergency Voice/alarm Communications System per IBC907.2.3		
Included: Manual Fire Alarm Boxes		
Smoke control systems:	Not required	IBC-909
Enclosure:	Not required	IBC-900
Miscellaneous requirements:	N/A	IBC-900
PHYSICAL PROPERTIES OF BUILDING:		
AREA:	Square Feet	
Existing Building Area by Floor:		IBC-Table 503
Existing First Floor:	9520	
Existing Second Floor Mezzanine:	1500	
Total Existing Building Area:	11,020	
Allowable Area:	14,500	
Occupancy Properties of Building:	Square Feet	Occupant Count
First Floor		
E occ.	9520	142 (5950 / 150 = 40 occ + 3570 / 35 = 102 occ = 142 Occupants)
Total 1st Floor Occ. Count:		142

EGRESS:

Exiting Occupancy Load:		IBC-Table 1004.1.2
Travel Distance:		
Maximum travel distance to exit	53 feet (Pink Room)	IBC-Table 1016.2
Maximum dead end corridor	N/A	IBC--1018.4
Maximum distance to fire extinguisher	75' feet	IBC- 906.1 & IFC Table 906.3 (1) IFC 906
Additional fire extinguisher requirements	Exist	
Egress Components:		IBC-1008
DOORS		
Minimum number of exits required:	6 minimum	IBC-Table 1021.2(2)
Actual number of exits per design	10 provided	IBC-1021.1

PLUMBING COUNT:

PLUMBING FIXTURE COUNT		IBC-2002.1
	Req'd Min.	Furnished
Water closets (Adult):	3	3 adult
Water closets (Childrens):	0	4
Lavatories (Adult):	3	4
Lavatories (Children):	0	7
Drinking fountains	1 High & 1 Low	IBC-Table 2902.1
Others	1 Service Sink	IBC-Table 2902.1



WDM Architects P.A.
105 North Washington
Wichita, KS 67202-2815
T 316.262.4700
F 316.262.0002
wdmarchitects.com

CHILD START - 2nd STREET

1510 EAST 2ND STREET
WICHITA, KS 67214

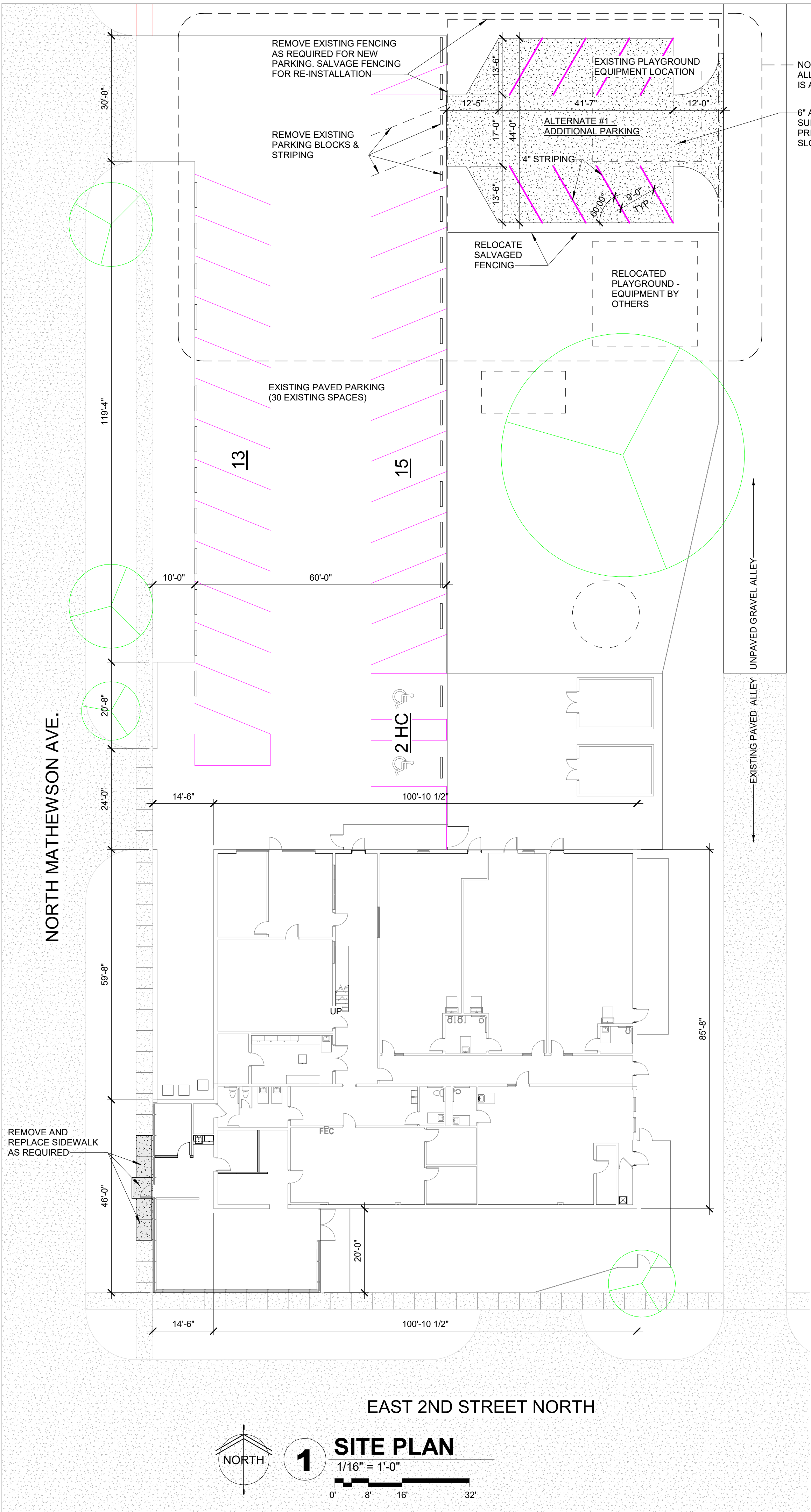
PRINTS ISSUED
11-02-2023 FOR BIDDING
01-24-2024 FOR PERMIT

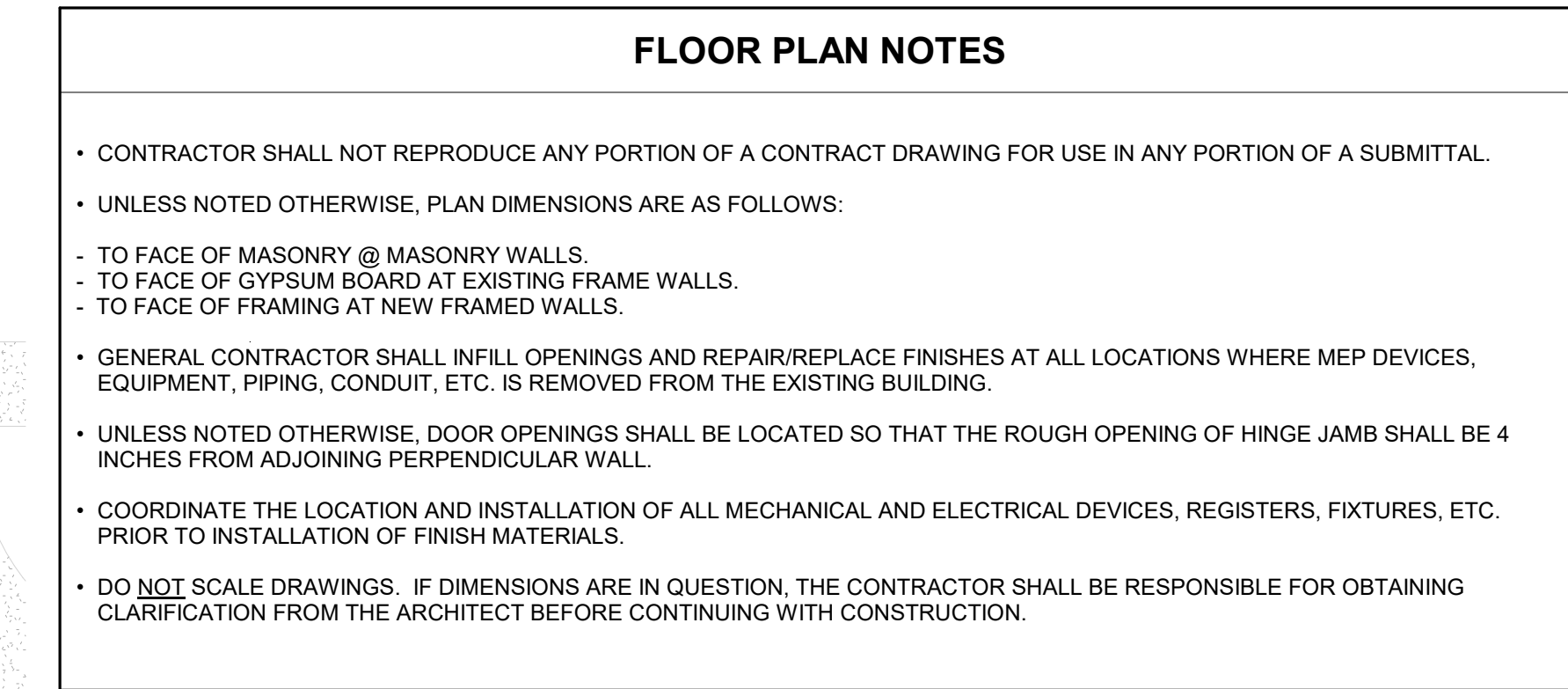
REVS.		
NO.	DATE	DESC.

WDM No. drawn: Author
23016 checked: Checker

CODE INFORMATION

G-102





WDM Architects P.A.
105 North Washington
Wichita, KS 67202-2815
T 316.262.4700
F 316.262.0002
wdmarchitects.com

CHILD START - 2nd STREET

1510 EAST 2ND STREET
WICHITA, KS 67214

PRINTS ISSUED
11-02-2023 FOR BIDDING
01-24-2024 FOR PERMIT

REV.		
NO.	DATE	DESC.

WDM No. drawn: rlf
23016 checked: sjl

FLOOR PLAN

A-101

100



- | | |
|------|--|
| 2.01 | EXISTING LOW WALL TO BE REMOVED |
| 2.02 | EXISTING WALL, DOOR & DOOR FRAME TO BE REMOVED |
| 2.03 | EXISTING SLIDING DOOR SYSTEM TO BE REMOVED |
| 2.04 | EXISTING PLUMBING FIXTURES TO BE REMOVED - CAP PLUMBING LINES BEHIND/BELOW THE WALL/FLOOR |
| 2.05 | EXISTING TOILET ACCESSORIES TO BE REMOVED - RETURN TO OWNER |
| 2.07 | EXISTING WALLS TO REMAIN - PATCH AS REQUIRED |
| 2.08 | EXISTING STRUCTURE TO REMAIN |
| 2.09 | EXISTING PROJECTION EQUIPMENT & SCREEN TO BE REMOVED - RETURN TO OWNER & FILL HOLES IN WALL |
| 2.11 | EXISTING CONCRETE FLOOR TO REMAIN IN PLACE - PATCH & REPAIR AS REQUIRED |
| 2.12 | EXISTING EXPANDED METAL MESH TO BE REMOVED BETWEEN STEEL BEAMS |
| 2.13 | EXISTING ROOFING TO REMAIN IN PLACE |
| 2.15 | EXISTING ALUMINUM STOREFRONT SYSTEM TO REMAIN IN PLACE - REWORK AS REQUIRED |
| 2.17 | EXISTING STOREFRONT GLAZING / SPANDREL PANEL TO REMAIN |
| 2.18 | REMOVE EXISTING LOW WALL AT THIS ROOM |
| 2.21 | EXISTING LOW WALL TO REMAIN |
| 2.22 | REMOVE EXISTING SECTION OF STOREFRONT TO BE REPLACED WITH NEW DOOR - GC TO COORDINATE WITH WEATHER & CHILD START STAFF |
| 2.23 | REMOVE EXISTING GYP CEILING & EXHAUST FAN - REF MECHANICAL DEMO |
| 2.27 | CLEAN EXISTING CEILING RESIDUE OFF BRICK & STRUCTURE ABOVE |
| 2.29 | EXISTING 2x4 PANEL PERIMETER FRAMING |
| 2.30 | EXISTING PLYWOOD PANEL W/ PLASTIC LAMINATE FINISH - COVER WITH NEW LAMINATE - REF FINISH SCHEDULE |
| 2.31 | EXISTING HARDWOOD TRIM |
| 2.32 | EXISTING BLACK PAINT |
| 2.33 | REMOVE EXISTING WALL BASE THROUGHOUT REMODEL AREA |
| 2.34 | REMOVE EXISTING VCT THROUGHOUT REMODEL AREA |
| 2.35 | REMOVE EXISTING RESTROOM FLOORING |
| 2.36 | REMOVE EXISTING MINI BLINDS |
| 2.37 | EXISTING STEEL SUPPORT ANGLE BETWEEN STRUCTURAL BEAMS TO REMAIN |
| 5.01 | 3 5/8" METAL STUDS AT 16" O.C. WITH 5/8" GYP BD EACH SIDE TO STEEL FRAMING ABOVE |

- | | |
|-------|---|
| 5.02 | 3/8" METAL STUDS AT 16" O.C. TO STRUCTURE ABOVE |
| 5.05 | NEW BREAK METAL WALL END WALL CAP @ STRUCTURAL "T" - PROVIDE RUBBERIZED SPACER BETWEEN CAP AND "T" - PRIME & PAINT TO MATCH WALL |
| 5.06 | EXTEND WALL FRAMING TO STRUCTURE ABOVE AS REQUIRED - MATCH EXISTING FRAMING |
| 5.07 | 6" METAL STUDS AT 16" O.C. TO STRUCTURE ABOVE |
| 5.09 | BREAK METAL SHEET TRIM OVER WALL FASTEN TO ROOF DECKING RIBS - PRIME & PAINT TO MATCH WALL |
| 5.10 | AT PARTITION "P1a" USE 6" METAL STUD FRAMING TO ROOF DECK ABOVE - SURROUND STEEL ANGLE & "T" COLUMN |
| 5.11 | INFILL CAP AT END OF WALL AT ROOF STRUCTURE WITH METAL STUDS & GYP BD - PAINTED |
| 6.03 | PLASTIC LAMINATE CABINETS W/ MELAMINE INTERIORS & ADJUSTABLE SHELVES. 16" DEEP UPPERS & 24" DEEP BASES - REF SPEC & FINISH SCHEDULE |
| 6.04 | 25" DEEP SOLID SURFACE COUNTERTOPS W/ 4" SOLID SURFACE BACK & SIDE SPLASH - REF SPEC & FINISH SCHEDULE |
| 6.05 | ADA COMPLIANT SKIRT WITH PLASTIC LAMINATE FINISHES |
| 6.10 | 16" DEEP PLASTIC LAMINATE UPPER CABINET W/ MICROWAVE SHELF - VERIFY SIZE OF OWNER'S MICROWAVE PRIOR TO FABRICATION |
| 7.01 | FOAM CLOSURE BLOCKING BETWEEN EXISTING STEEL DECK & METAL STUD FRAMING |
| 7.02 | INFILL AROUND ALL PENETRATIONS WITH ACOUSTIC SEALANT - TYPICAL |
| 7.03 | ACOUSTIC BATT INSULATION FLOOR TO STRUCTURE ABOVE |
| 7.04 | FILL CAVITY WITH ACOUSTIC MATERIAL |
| 7.05 | ACOUSTIC SEALANT BEAD W/ BACKER ROD |
| 9.02 | DRESS END OF EXISTING WALL & WRAP WITH GYP BD TO MATCH NEW WALL |
| 9.03 | CAULK EXISTING RAKED JOINTS FULL BETWEEN NEW WALL & EXISTING CMU WALL PRIOR TO PAINTING |
| 9.05 | CORNER GUARD TO 48" A.F.F. - REF FINISH SCHEDULE |
| 9.06 | 5/8" GYPSUM BOARD TO STRUCTURE ABOVE |
| 9.07 | WALL BASE PER FINISH SCHEDULE |
| 9.08 | J-BEAD AT TOP EDGE - TYPICAL @ ALL NEW GYP BD WALLS |
| 9.12 | PATCH NEW GYP INTO EXISTING WALL PRIOR TO PAINTING |
| 9.14 | NEW PLASTIC LAMINATE FINISH - REF FINISH SCHEDULE & LEGEND |
| 9.15 | NEW MINI BLINDS - REF FINISH PLAN & SCHEDULE |
| 10.01 | FURNISHINGS & SHELVING UNITS BY OWNER |
| 26.02 | NEW RECESSED ELECTRICAL PANEL - REF ELECTRICAL DRAWINGS |
| 26.03 | UNDER COUNTER LIGHTING - REF ELECTRICAL LIGHTING PLAN |
| 32.01 | REWORK EXISTING BRICK PAVERS AS REQUIRED @ NEW SIDEWALK - MATCH TOP OF NEW CONCRETE SIDEWALK / LANDING LEVEL |

The diagrams illustrate two partition wall assemblies, P1, P1a and P2, showing their vertical cross-sections and material specifications.

P1, P1a: This assembly is shown with a total height of 9'-0" and a section of 10'-0". The wall consists of a vertical core (2.11) flanked by side panels (2.08). The top and bottom sections are labeled with callouts 5.09, 7.04, and 2.13. Other callouts include 2.12, 2.37, 9.08, 7.02, 5.10, 5.02, 9.06, and 9.07.

P2: This assembly is shown with a similar vertical core (2.11) and side panels (2.08). The top and bottom sections are labeled with callouts 2.13, 7.04, and 5.09. Other callouts include 7.01, 9.08, 7.02, 5.07, 9.06, and 9.07.

The diagrams use standard architectural symbols for materials and components, with callouts indicating specific material specifications or quantities.



© 2004 Blackwell Publishing Ltd

CHILD START - 2nd STREET

1510 EAST 2ND STREET
WICHITA, KS 67214

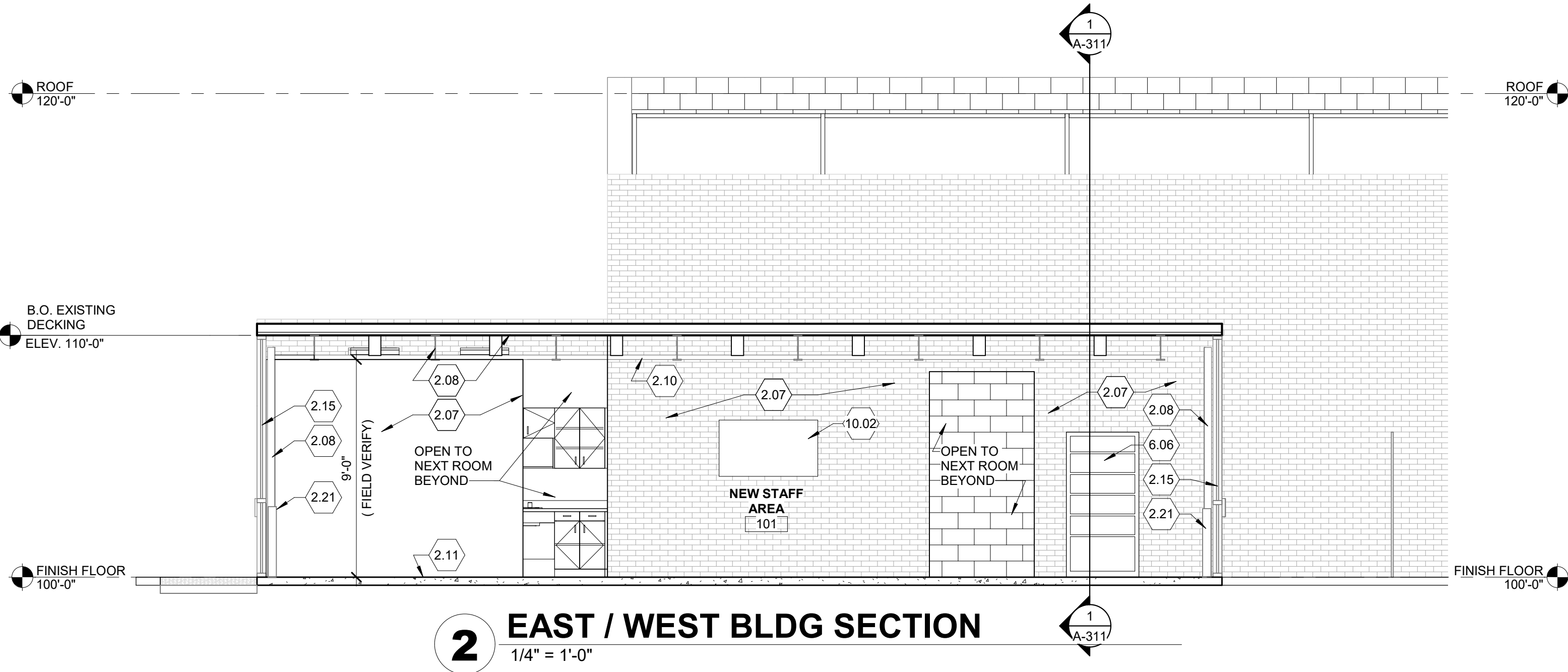
REV.		
NO.	DATE	DESC.

ENLARGED AREA PLAN

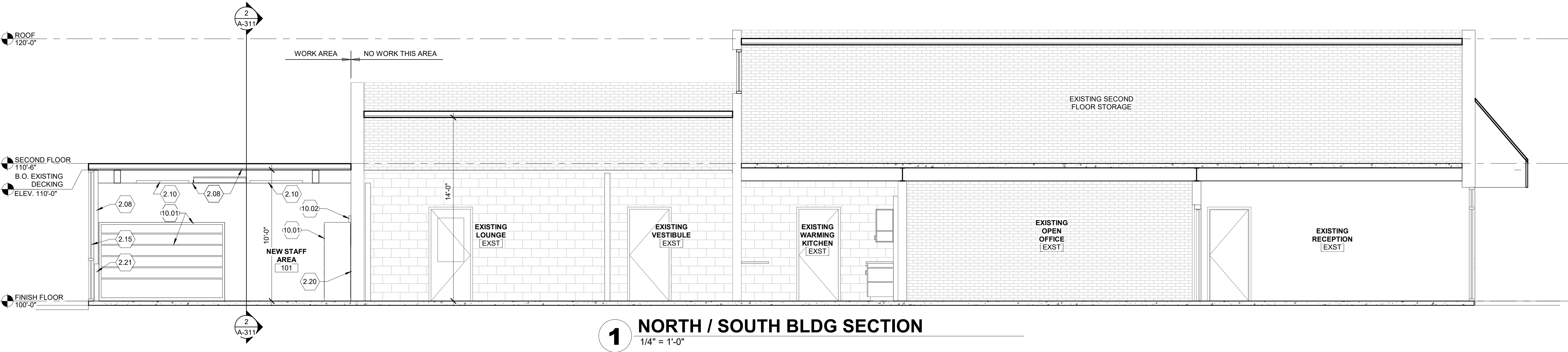
A-102

KEYED NOTES

- 2.07 EXISTING WALLS TO REMAIN - PATCH AS REQUIRED
- 2.08 EXISTING STRUCTURE TO REMAIN
- 2.10 EXISTING CEILING PANELS AT BOTTOM CHORD OF STRUCTURE TO REMAIN
- 2.11 EXISTING CONCRETE FLOOR TO REMAIN IN PLACE - PATCH & REPAIR AS REQUIRED
- 2.15 EXISTING ALUMINUM STOREFRONT SYSTEM TO REMAIN IN PLACE - REWORK AS REQUIRED
- 2.20 EXISTING BRICK MASONRY WALL TO REMAIN - PATCH WALL WHERE EQUIPMENT HAS BEEN REMOVED
- 2.21 EXISTING LOW WALL TO REMAIN
- 6.06 SHELVING / STORAGE UNITS BY OWNER
- 10.01 FURNISHINGS & SHELVING UNITS BY OWNER
- 10.02 EQUIPMENT BY OWNER



2 EAST / WEST BLDG SECTION
1/4" = 1'-0"



1 NORTH / SOUTH BLDG SECTION
1/4" = 1'-0"



WDM Architects P.A.
105 North Washington
Wichita, KS 67202-2815
T 316.262.4700
F 316.262.0002
wdmarchitects.com

CHILD START - 2nd STREET

1510 EAST 2ND STREET
WICHITA, KS 67214

PRINTS ISSUED
11-02-2023 FOR BIDDING
01-24-2024 FOR PERMIT

REVS.		
NO.	DATE	DESC.

WDM No. drawn: rlf
23016 checked: sjl

SECTIONS

A-311



2 ENLARGED AREA RCP
1/4" = 1'-0"

CEILING MATERIAL LEGEND	
ACT-1	ACOUSTIC CEILING TILE AND GRID, ARMSTRONG OPTIMA 3152; 24" x 24" x 1", SQUARE LAY-IN, NRC 0.95, WHITE, PRELUDE 15/16" GRID, PROVIDE EDGE ANGLE TO MATCH HEIGHT & PROFILE OF EXISTING IN NEW STAFF AREA 101 @ EXPOSED EDGES
ACT-2	ACOUSTIC CEILING TILE AND GRID, ARMSTRONG OPTIMA 3353; 24"x48"x1", SQUARE LAY-IN, NRC 0.90, WHITE, PRELUDE 15/16" GRID, PROVIDE EDGE ANGLE TO MATCH HEIGHT & PROFILE OF EXISTING IN NEW STAFF AREA 101 @ EXPOSED EDGES
OPEN	OPEN TO EXISTING STRUCTURE

CEILING SYMBOLS LEGEND	
NOTE: REFERENCE ELECTRICAL DRAWINGS FOR LIGHTING AND ELECTRIC SYMBOLS, AND REFERENCE MECHANICAL AND PLUMBING DRAWINGS FOR HVAC SYMBOLS.	
ACT-1 17'-0"	CEILING TYPE CEILING HEIGHT
E	EXISTING 2' x 4' SURFACE MOUNTED LIGHT FIXTURE
N	NEW 2' x 4' SURFACE MOUNTED LIGHT FIXTURE - REF ELECT
⊗	EXIT SIGN CEILING LIGHT FIXTURE
⊗	EXIT SIGN WALL LIGHT FIXTURE
E	EXISTING SURFACE MOUNTED CAN LIGHT FIXTURE
⌏	EMERGENCY LIGHT FIXTURE
⊞	SECURITY CAMERA
⊞	AIR DIFFUSER
⊞	AIR RETURN
⊞	EXHAUST

- KEYED NOTES**
- 2.28 OPEN TO EXISTING STRUCTURE ABOVE
9.12 PATCH NEW GYP INTO EXISTING WALL PRIOR TO PAINTING
9.13 ATTACH CEILING FRAMING TO STRUCTURAL BEAM TO MATCH EXISTING (AT WALLS, USE EDGE ANGLE & FINISH EDGE AT STOREFRONT)
9.16 PAINT ALL NEW CONDUITS TO MATCH THE EXISTING STRUCTURE TO WHICH THEY ARE ADJACENT



24 JANUARY 2024

wdm
ARCHITECTS

WDM Architects P.A.
105 North Washington
Wichita, KS 67202-2815
T 316.262.4700
F 316.262.0002
wdmarchitects.com

CHILD START - 2nd STREET

1510 EAST 2ND STREET
WICHITA, KS 67214

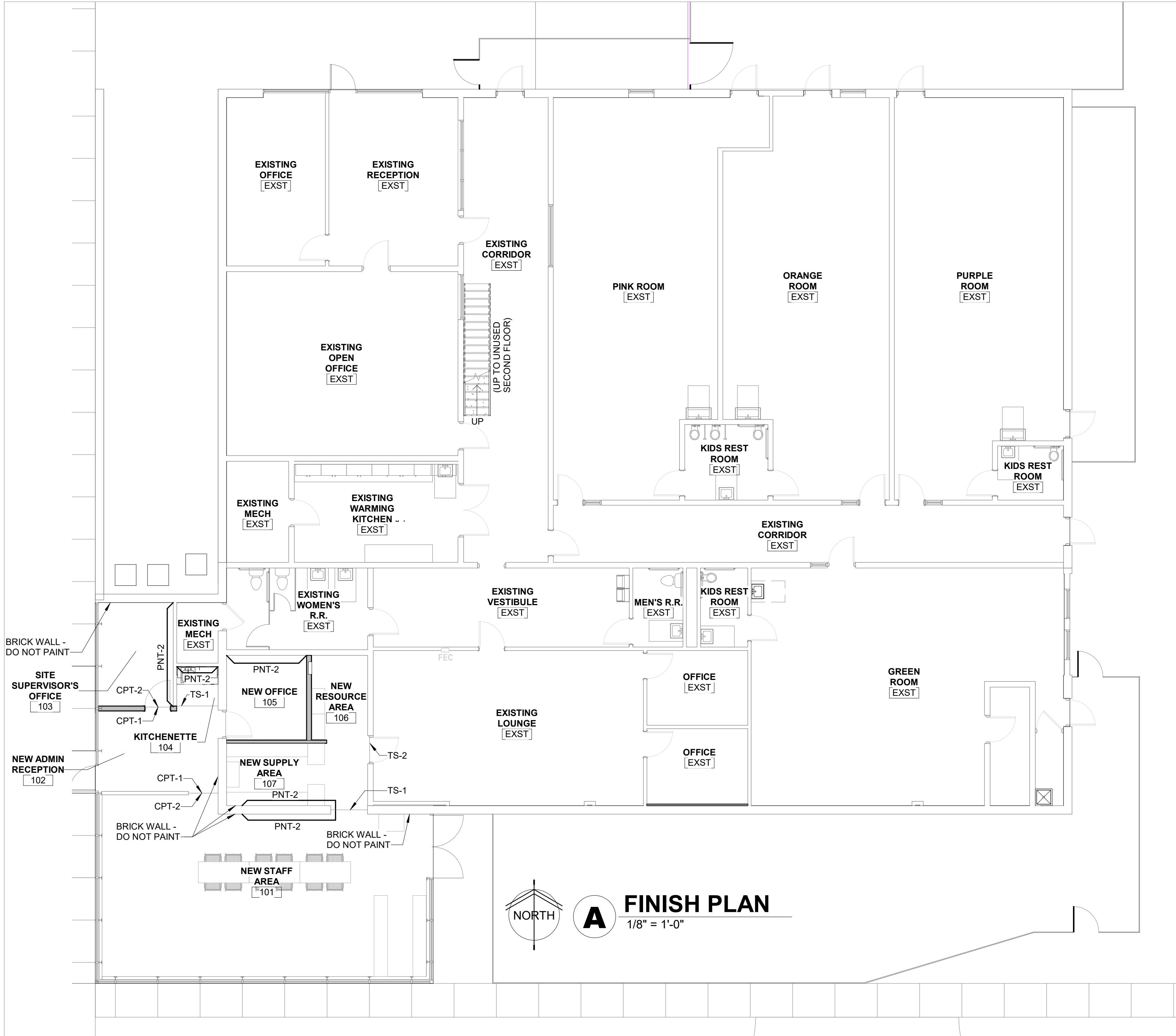
PRINTS ISSUED
11-02-2023 FOR BIDDING
01-24-2024 FOR PERMIT

REVS.		
NO.	DATE	DESC.

WDM No. drawn: rtf
23016 checked: sjl

REFLECTED CEILING PLAN

A-601



ROOM FINISH LEGEND							
KEY	PRODUCT	MANUFACTURER	STYLE	COLOR	SIZE	INSTALL METHOD	NOTES
CPT-1	CARPET	MAHAWK GROUP	FIRST STEP II	983 IRON ORE	24"x24"	VERTICAL ASHLAR	
CPT-2	CARPET	J&J FLOORING GROUP	BOUCLE	STRAND	12"x48"	ASHLAR	
LVT-1	LUXURY VINYL TILE	MANNINGTON	GROOVE	WINTER FLEECE C117	18"x18"	QUARTER TURNED	
PNT-1	PAINT	SHERWIN WILLIAMS	EG-SHEL	NATURAL CHOICE SW 7011	--	--	FIELD PAINT
PNT-2	PAINT	SHERWIN WILLIAMS	EG-SHEL	DOCKSIDE BLUE SW 7601	--	--	ACCENT
PNT-4	PAINT	SHERWIN WILLIAMS	SEMI-GLOSS	NATURAL CHOICE SW 7011	--	--	HM DOORS / FRAMES / PAINTED WD TRIM
PLAM-1	PLASTIC LAMINATE	FORMICA	--	EARTHEN TWILL 8828-58	--	PATTERN VERTICAL	
PLAM-2	PLASTIC LAMINATE	ARBORITE	--	ELEMENTAL ORIGIN P423 RM	--	--	WALL PANELS
RB-1	RESILIENT BASE	JOHNSONITE	STANDARD COVE	31 ZEPHYR	4" TALL x ROLL	FIELD FORMED CORNERS	
SS-1	SOLID SURFACE	CORIAN	--	NEUTRAL AGGREGATE	1/2" THICK	V-GROOVE OR MITERED EDGES ONLY	
TS-1	TRANSITION STRIP	JOHNSONITE	SLT-31-C	31 ZEPHYR	--	--	CPT TO LVT
TS-2	TRANSITION STRIP	JOHNSONITE	FIELD VERIFY	31 ZEPHYR	FIELD VERIFY	--	LVT TO EXIST
WT-1	WINDOW TREATMENTS	SWF CONTRACT	MANUAL SOLAR SHADE W/ 3% OPENNESS	CROSSHATCH S; S300; C8203 LINEN	FIELD VERIFY	INSIDE MOUNT (FIELD VERIFY)	PROVIDE FASICA, STAINLESS STEEL BALL CHAIN, BLACK CHAIN GUIDES

ROOM FINISH SCHEDULE											
ROOM #	ROOM NAME	FLOOR		WALLS				MILLWORK		WINDOW TREATMENT	COMMENTS
		FLOOR	BASE	NORTH	EAST	SOUTH	WEST	HORIZ.	VERT.		
101	NEW STAFF AREA	CPT-2	RB-1	EXIST / PNT-1 / PNT-2	PLAM-2	PLAM-2	PLAM-2	--	--	WT-1	1
102	NEW ADMIN RECEPTION	CPT-1	RB-1	PNT-1	EXIST	PNT-1	--	--	--	WT-1	
103	SITE SUPERVISOR'S OFFICE	CPT-2	RB-1	EXIST	PNT-2	PNT-1	--	--	--	WT-1	
104	KITCHENETTE	LVT-1	RB-1	PNT-2	EXIST	--	PNT-1	PLAM-1	SS-1	--	
105	NEW OFFICE	CPT-2	RB-1	PNT-2	PNT-1	PNT-1	PNT-1	--	--	--	
106	NEW RESOURCE AREA	LVT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	--	--	--	
107	NEW SUPPLY AREA	LVT-1	RB-1	PNT-1	--	PNT-1	PNT-1	--	--	--	

ROOM FINISH SCHEDULE COMMENTS										
1. PROVIDE PLASTIC LAMINATE PLAM-2 @ PLYWD PANELS BELOW STOREFRONT WINDOWS. REPLACE PLYWD IF REQUIRED FOR SUCCESSFULL PLASTIC LAMINATE INSTALLATION. WOOD CAP IS TO BE PAINTED PNT-3										

GENERAL FINISH NOTES										
<ul style="list-style-type: none">DO NOT PAINT EXISTING BRICKALL FLOOR FINISH CHANGES AT DOORWAYS TO OCCUR UNDER CENTERLINE OF DOOR OR AT CENTER OF DOORWAY, UNLESS NOTED OTHERWISE.ALL RESILIENT COVE BASE CORNERS ARE TO BE FIELD FORMED.INTERIOR HOLLOW METAL DOOR, WINDOW AND SIDELIGHT FRAMES SHALL BE PAINTED AS SHOWN ON FINISH LEGEND.TRANSITION STRIPS ARE REQ'D AT ALL DIFFERING FLOOR MATERIALS UNLESS NOTED OTHERWISE. TRANSITION STRIPS ARE NOTED ON FINISH LEGEND & FINISH PLANONCE INSTALLATION OF FLOOR FINISHES IS COMPLETE, PROTECT FLOORS TO PREVENT DAMAGE DURING THE REMAINDER OF THE PROJECT CONSTRUCTION. CLEAN AND FINISH FLOORS PER MANUFACTURER'S RECOMMENDATIONS PRIOR TO FINAL COMPLETION AND INSPECTION.PROVIDE SCHEDULED WALL BASE ALONG THE BOTTOM OF ALL CASEWORK.PAINT ALL NEW EXPOSED CONDUIT TO MATCH ADJACENT WALL/CEILING/STRUCTURE FINISHES.										



24 JANUARY 2024

wdm
ARCHITECTS

WDM Architects P.A.
105 North Washington
Wichita, KS 67202-2815
T 316.262.4700
F 316.262.0002
wdmarchitects.com

CHILD START - 2nd STREET

1510 EAST 2ND STREET
WICHITA, KS 67214

PRINTS ISSUED
11-02-2023 FOR BIDDING
01-24-2024 FOR PERMIT

REVS.		
NO.	DATE	DESC.

WDM No. drawn: adw
23016 checked: sjl

FINISH PLAN

A-901

PROJECT GENERAL NOTES

- ALL WORK SHALL COMPLY WITH CURRENT FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES AS WELL AS THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL REPORT ANY CONFLICTS TO THE ENGINEER AS SOON AS THEY ARE DISCOVERED.
- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE A.D.A.G. (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES).
- THE CONTRACTOR SHALL REVIEW THE DRAWINGS AND SPECIFICATIONS PRIOR TO BIDDING JOB AND DURING CONSTRUCTION. EXCEPT AS OTHERWISE NOTED, THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, AND LABOR FOR A COMPLETE PROJECT AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS. DRAWINGS AND SPECIFICATIONS CARRY EQUAL IMPORTANCE AND ITEMS LISTED IN EITHER SHALL BE FURNISHED AS IF LISTED IN BOTH. ALSO REVIEW DETAILS AND RISER DIAGRAMS FOR ADDITIONAL ITEMS/INSTRUCTIONS WHETHER SPECIFICALLY REFERRED TO ON PLANS OR NOT.
- THE CONTRACTOR MUST VISIT THE SITE TO FAMILIARIZE HIMSELF WITH THE EXISTING SITE CONDITIONS WHICH WILL BE AFFECTED DURING CONSTRUCTION PRIOR TO SUBMITTING HIS BID PROPOSAL, INCLUDING THE EXTENT OF DEMOLITION AND CONFLICTS WITH PLANS.
- DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHOW THE GENERAL INSTALLATION OF EQUIPMENT AND MATERIALS IN RELATIONSHIP TO STRUCTURE AND OTHER TRADES. THEY MAY NOT SHOW EVERY REQUIRED OFFSET, FITTING, ETC. CONTRACTOR SHALL FIELD VERIFY ACTUAL JOB CONDITIONS AND COORDINATE WORK WITH OTHER TRADES PRIOR TO BIDDING JOB AND PRIOR TO ORDERING EQUIPMENT, FABRICATION OF MATERIALS, OR STARTING WORK. CONTRACTOR SHALL NOT SCALE THE DRAWINGS.
- REFER TO ARCHITECTURAL PLANS/SPECIFICATIONS FOR A DETAILED DESCRIPTION OF ALL ALTERNATES AND PHASES.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL ITEMS THAT AFFECT OTHER DISCIPLINES WITH THE CORRESPONDING CONTRACTOR AND THE GENERAL CONTRACTOR IF EQUIPMENT, MATERIALS, ETC. OTHER THAN THOSE SCHEDULED AND SPECIFIED (PENDING PRE-APPROVAL) ARE FURNISHED.
- CHANGE ORDERS WILL NOT BE GRANTED DUE TO LACK OF COORDINATION WITH JOB CONDITIONS AND/OR OTHER CONTRACTORS.
- EXISTING EQUIPMENT, DEVICE, AND FIXTURE LOCATIONS ARE SHOWN FOR REFERENCE ONLY. ADJUST EXACT INSTALLATION AND CONNECTION OF NEW ITEMS ACCORDING TO ACTUAL CONDITIONS.
- G.C. SHALL CUT AND PATCH FLOOR, WALLS, AND ROOFS AS REQUIRED FOR INSTALLATION/DEMOLITION OF ELECTRICAL SYSTEMS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE OF RELOCATED EQUIPMENT AND MATERIALS DURING CONSTRUCTION. ITEMS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- UPON COMPLETION OF THE PROJECT THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS TO THE OWNER, ARCHITECT, AND ENGINEER SHOWING EQUIPMENT, DEVICES, FIXTURES, CIRCUITS, ETC. THAT DIFFERS FROM CONSTRUCTION DOCUMENTS AS THEY ARE ACTUALLY INSTALLED.
- THE RESPONSIBILITY OF EACH CONTRACTOR IS NOT LIMITED TO THEIR SPECIFIC DISCIPLINE'S DRAWING SHEETS. REFER TO OTHER DISCIPLINES' DRAWING SHEETS AS REQUIRED FOR ADDITIONAL INFORMATION/INSTRUCTIONS.
- FIRE STOP ALL PENETRATIONS THROUGH RATED WALLS. SLEEVE IN ENTIRETY WITH APPROPRIATE SLEEVE MATERIAL.

MECHANICAL GENERAL NOTES

- ALL DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS. SEE SPECIFICATIONS FOR INSULATION REQUIREMENTS.
- REFER TO PLUMBING FIXTURE SCHEDULE FOR PIPING RUNOUT SIZES TO INDIVIDUAL PLUMBING FIXTURES.
- DO NOT ROUTE ANY PIPING OVER ELECTRICAL ROOMS, COMPUTER ROOMS, OR ELECTRICAL PANELS.
- WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE INSTALLED ON CONDITIONED SIDE OF INSULATION.
- ALL DOMESTIC WATER PIPING IN CEILING SPACE SHALL BE ROUTED BELOW CEILING INSULATION.
- PROVIDE PRESSURE REDUCERS AS REQUIRED IN WATER SUPPLY LINES TO KEEP PRESSURE BELOW 70 PSI AT ALL OUTLETS.
- PROVIDE APPROVED BACKFLOW PREVENTION OR ANTI-SIPHON DEVICES AT ALL FIXTURES THAT COULD CONTAMINATE THE POTABLE WATER SYSTEM.
- RELOCATE EXISTING VENTS THRU ROOF AS REQUIRED BY NEW & RELOCATED EQUIPMENT TO MAINTAIN MINIMUM 10'-0" CLEARANCE FROM OUTSIDE AIR INTAKES. COORDINATE WITH M.C.

MECHANICAL SYMBOL LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY AIR DOWN		GRD TAG
	SUPPLY AIR UP AND THRU		REVISION TAG
	RETURN AIR DOWN		ROUND FLOOR DRAIN
	RETURN AIR UP AND THRU		SQUARE FLOOR DRAIN / FLOOR SINK
	EXHAUST AIR DOWN		FLOOR CLEANOUT
	EXHAUST AIR UP AND THRU		WALL / END CLEANOUT
	MANUAL DAMPER		SHUT-OFF VALVE
	MITERED ELBOW WITH TURNING VANES		SOLENOID VALVE
	RADIUSED ELBOW		2 WAY CONTROL VALVE
	CONNECT/REMOVE TO EXISTING		3 WAY CONTROL VALVE
	THERMOSTAT		PRESSURE REDUCING VALVE
	HUMIDISTAT		CHECK VALVE
	MOTORIZED DAMPER ACTUATOR		CIRCUIT SETTER
	EQUIPMENT / PLUMBING FIXTURE TAG		STRAINER
	KEYED NOTE		UNION
	DIRECTION OF AIRFLOW		FLOW DIRECTION ARROW
	BACKDRAFT DAMPER		PIPE BREAK
	CONTROL DAMPER		PIPE CAP
	FIRE/SMOKE DAMPER		PIPE REDUCER
	FIRE DAMPER		
	SMOKE DAMPER		

ABBREVIATIONS

ABBREV-IATIONS	DESCRIPTION	ABBREV-IATIONS	DESCRIPTION
A	AMPERES	HWC	DOMESTIC HOT WATER CIRCULATING
A/V	AUDIO/VISUAL	IG	ISOLATED GROUND
AFF	ABOVE FINISHED FLOOR	IP	INTERNET PROTOCOL
AFG	ABOVE FINISHED GRADE	J-BOX	JUNCTION BOX
AHJ	AUTHORITIES HAVING JURISDICTION	LTG	LIGHTING
ATS	AUTOMATIC TRANSFER SWITCH	MAX	MAXIMUM
BFC	BELOW FINISHED CEILING	MC	MECHANICAL CONTRACTOR
BFG	BELOW FINISHED GRADE	MCA	MINIMUM CIRCUIT AMPACITY
C	CONDUIT	MIN	MINIMUM
CB	CIRCUIT BREAKER	MOCP	MAXIMUM OVERCURRENT PROTECTION
CLG	CEILING	(N)	NEW
CO	CLEANOUT	NC	NORMALLY CLOSED
CT	MOUNTED 6" ABOVE COUNTER TOP	NL	NIGHT LIGHT
DCW	DOMESTIC COLD WATER	NO	NORMALLY OPEN
DHW	DOMESTIC HOT WATER	NTS	NOT TO SCALE
DN	DOWN	OA	OUTSIDE AIR
(E)	EXISTING	P	POLE
EA	EXHAUST AIR	PRV	PRESSURE RELIEF VALVE/REDUCING VALVE
EC	ELECTRICAL CONTRACTOR	RA	RETURN AIR
EM	DEVICE ON EMERGENCY CIRCUIT OR WITH AN EMERGENCY BATTERY	SA	SUPPLY AIR
FCO	FLOOR CLEANOUT	SPD	SURGE PROTECTIVE DEVICE
FLA	FULL LOAD AMPS	TCC	TEMPERATURE CONTROLS CONTRACTOR
FVNR	FULL VOLTAGE NON-REVERSING	TP	TAMPER PROOF OUTLET COVERS
FVR	FULL VOLTAGE REVERSING	TR	TAMPER RESISTANT DEVICE
FWD	FORWARD	TYP	TYPICAL
FPC	FIRE PROTECTION CONTRACTOR	UCT	MOUNTED UNDER COUNTER TOP
GC	GENERAL CONTRACTOR	UON	UNLESS OTHERWISE NOTED
GCO	GRADE CLEANOUT	V	VOLTS
GEC	GROUNDING ELECTRODE CONDUCTOR	VTR	VENT THRU ROOF
GFI / GFCI	GROUND FAULT INTERRUPTER	WCO	WALL CLEANOUT
G/GND	GROUND	WP	WEATHER PROOF
HP	HORSE POWER	WPI	WP IN SERVICE (WITH PLUG IN SERVICE)
		WR	WEATHER RESISTANT TYPE DEVICE

LINETYPES LEGEND

————	EXISTING/REFERENCE
-----	EXISTING TO BE DEMOLISHED
————	WORK TO BE DONE
—— — —	DOMESTIC COLD WATER
—— — —	DOMESTIC HOT WATER
—— — —	SANITARY SEWER / WASTE
- - - - -	VENT

MECHANICAL SYMBOL LIST

MECHANICAL DESIGN
RICHARD BARTLETT, P.E. KHEN LUONG
PHONE: 316.684.9600 x1126 PHONE: 316.684.9600 x1192
E-MAIL: RBARTLETT@MKEC.COM E-MAIL: KLUONG@MKEC.COM

CODE INFORMATION

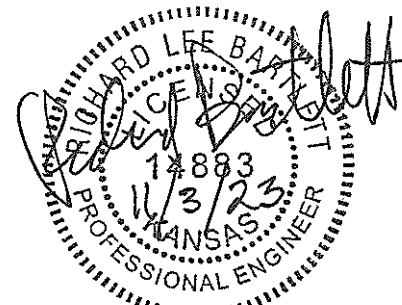
2021 INTERNATIONAL MECHANICAL CODE (IMC)
2021 UNIFORM PLUMBING CODE (UPC)

DESIGN CRITERIA

LOCATION:	WICHITA, KS
ELEVATION:	1299'
DESIGN CLIMATIC CONDITIONS: (PER 2017 ASHRAE FUNDAMENTALS 0.4/99.6% CRITERIA)	COOLING: 105°F DB / 78°F WB HEATING: 0°F DB
DESIGN INDOOR CONDITIONS:	COOLING: 75°F DB HEATING: 70°F DB

SHEET LIST TABLE

M-001 MECHANICAL COVERSHEET
M-101 MECHANICAL HVAC FLOOR PLANS
M-102 MECHANICAL SPECIFICATIONS
P-101 PLUMBING FLOOR PLANS



WDM Architects P.A.
105 North Washington
Wichita, KS 67202-2815
T 316.262.4700
F 316.262.0002
wdmarchitects.com

CHILD START ON SECOND STREET
A REMODEL
2nd St & Mathewson

PRINTS ISSUED
11-02-2023 FOR BIDDING
01-24-2024 FOR PERMIT

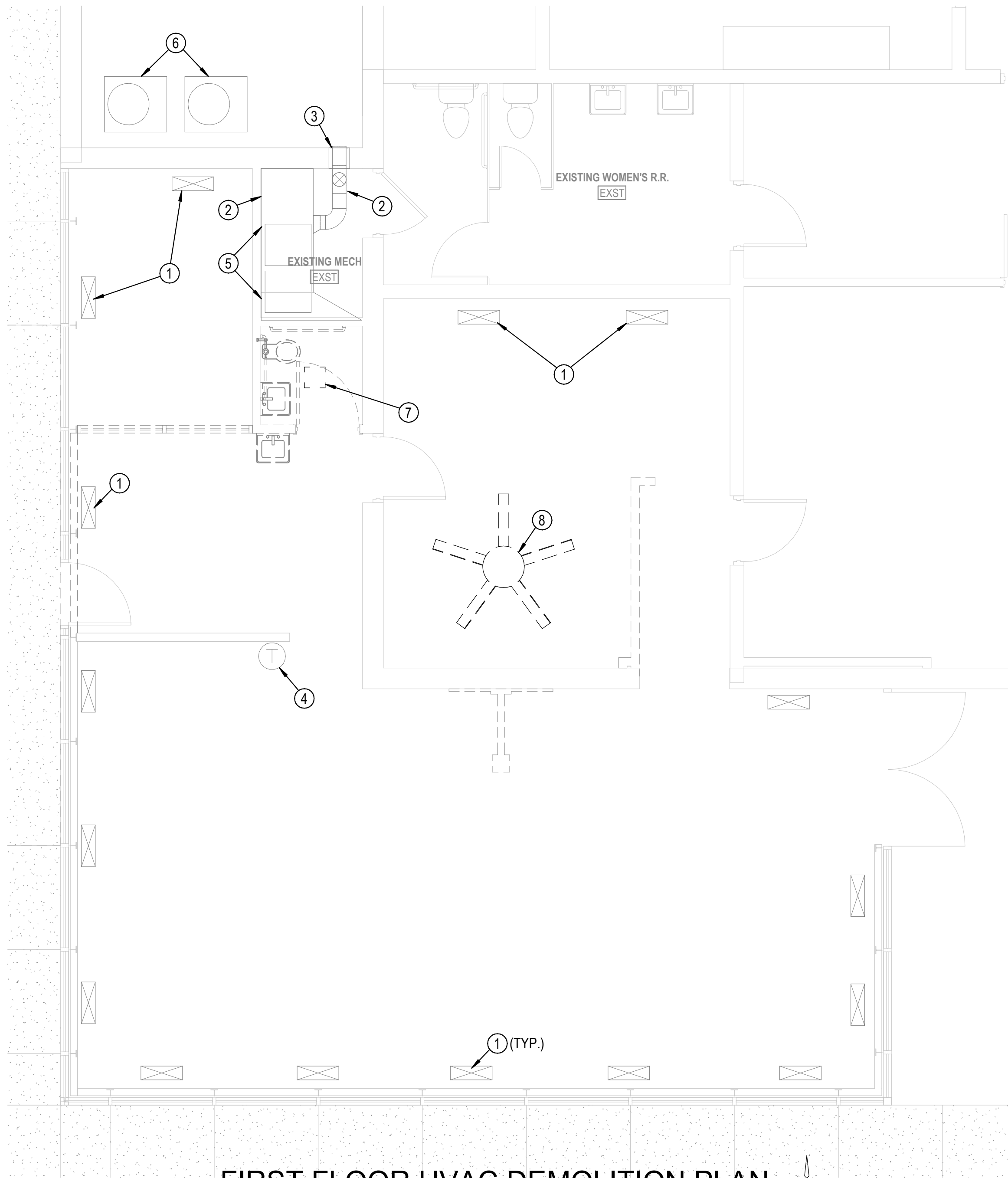
REVS.		
NO.	DATE	DESC.

WDM No. drawn: CWM
23016 checked: RLB
MECHANICAL COVERSHEET



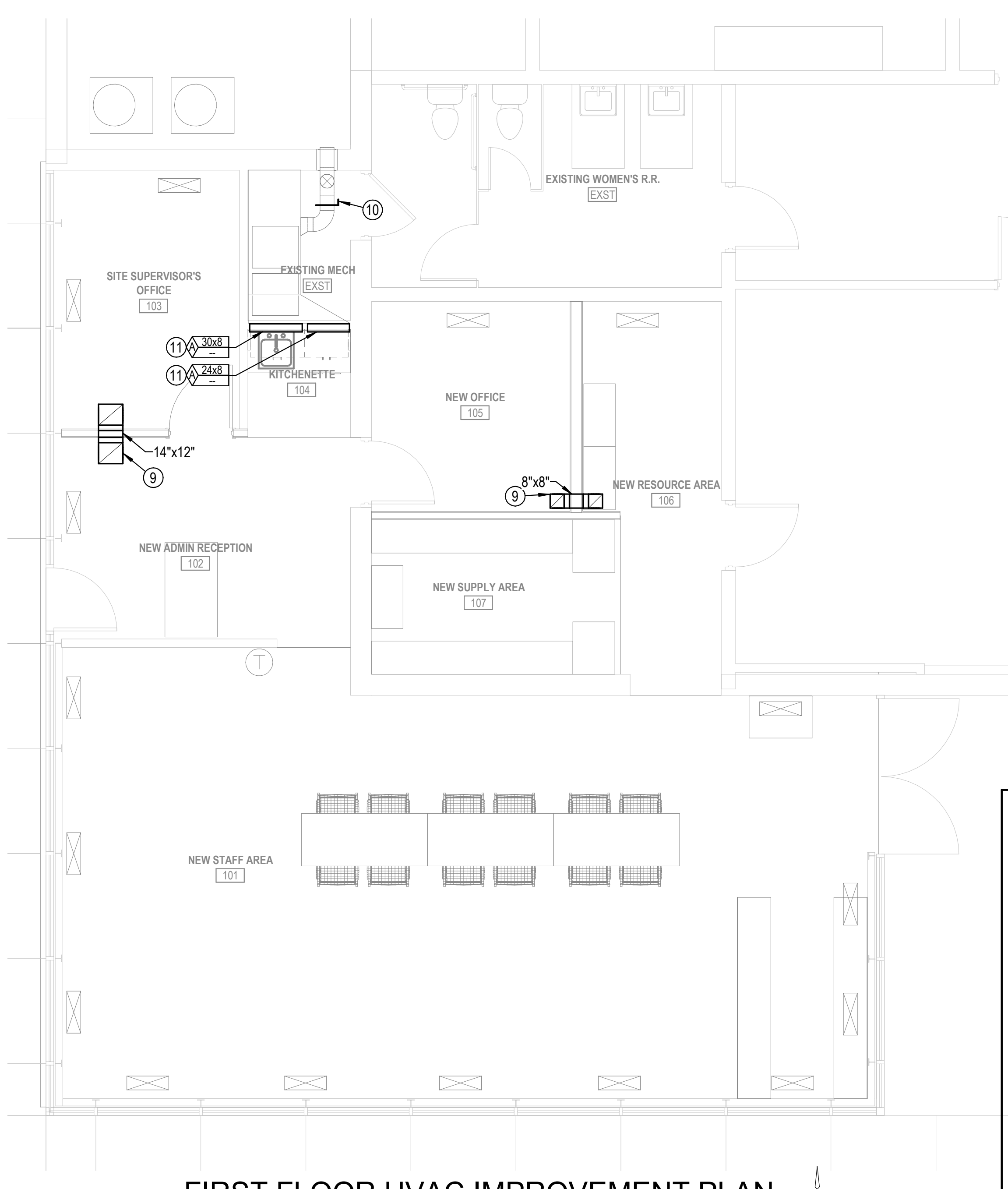
Wichita, KS · 316.684.9600
PROJECT: 2301060536

M-001



FIRST FLOOR HVAC DEMOLITION PLAN

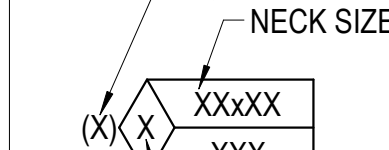
SCALE: 1/4" = 1'-0"
0' 1' 2' 4' 8'



FIRST FLOOR HVAC IMPROVEMENT PLAN

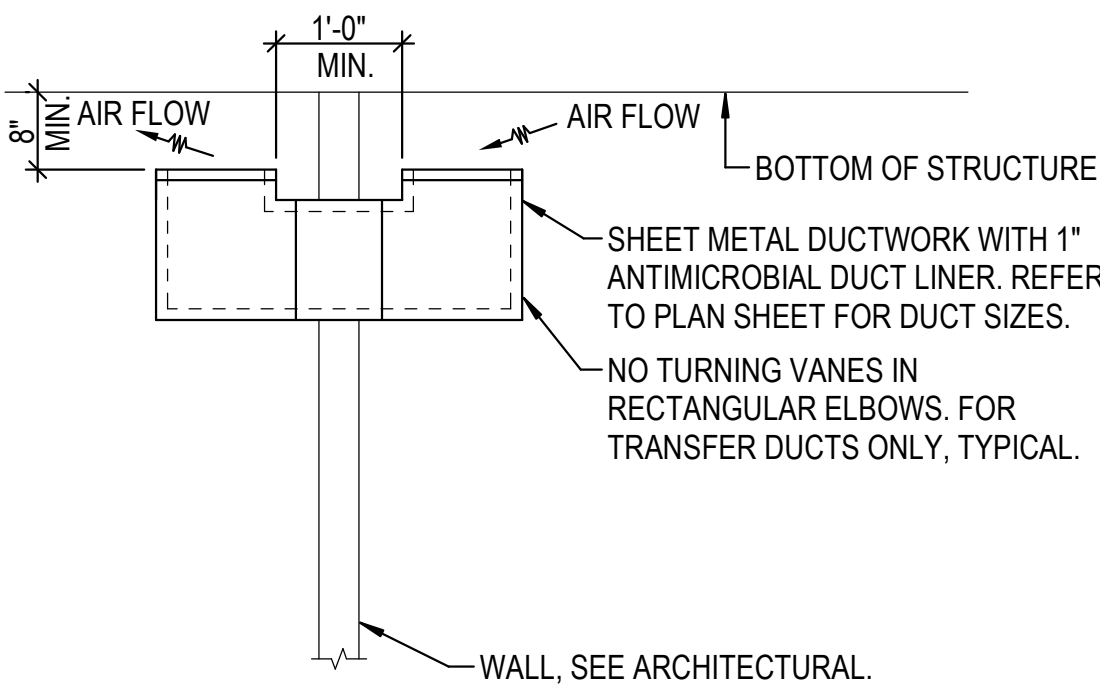
SCALE: 1/4" = 1'-0"
0' 1' 2' 4' 8'

GRILLES, REGISTERS & DIFFUSERS SCHEDULE

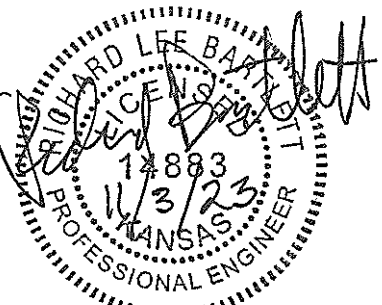
MARK	MANUFACTURER	MODEL	USE	MOUNTING	MATERIAL	FINISH	THROW	LOCATION	REMARKS
A	PRICE	530-F-L	TA	SURFACE	STEEL	WHITE	—	WALL	1.2
ABBREVIATIONS:				ROUND TO SQUARE ADAPTER SCHEDULE:				LEGEND	
RA	RETURN AIR			ROUND SIZE:	SQUARE NECK SIZE:				
SA	SUPPLY AIR			6" Ø	9x9				
EA	EXHAUST AIR			8" Ø	9x9				
TA	TRANSFER AIR			10" Ø	12x12				
UON	UNLESS OTHERWISE NOTED			12" Ø	15x15				
				14" Ø	15x15				
REMARKS									
(1)	SEE CALL OUTS ON PLANS FOR NECK SIZE AND CFM.								
(2)	ALL INTERIOR DUCT SURFACES VISIBLE THRU FACE OF GRILLE/DIFFUSER SHALL BE PAINTED FLAT BLACK (BY M.C).								

KEYED NOTES

- EXISTING FLOOR AIR DIFFUSER/GRILLE TO REMAIN.
- EXISTING DUCTWORK TO REMAIN.
- EXISTING WALL CAPS TO REMAIN.
- EXISTING THERMOSTAT TO REMAIN.
- EXISTING FURNACE TO REMAIN.
- EXISTING CONDENSING UNIT TO REMAIN.
- DEMOLISH EXISTING RESTROOM EXHAUST AND ASSOCIATED DUCTWORK. CAP EXISTING DISCHARGE AT ROOF. COORDINATE WITH ARCHITECT FOR ROOFING REQUIREMENTS.
- DEMOLISH EXISTING CEILING FAN.
- PROVIDE TRANSFER DUCT THROUGH THE WALL BETWEEN STRUCTURAL BEAMS. SEE DETAIL ON THIS SHEET.
- PROVIDE AND INSTALL NEW MANUAL OUTSIDE AIR DAMPER SET TO 135 CFM.
- PROVIDE NEW RETURN GRILLES AT EXISTING RETURN OPENING. COORDINATE SIZING OF GRILLES WITH EXISTING STRUCTURAL MEMBER AND DIMENSIONS OF EXISTING OPENING. CONTRACTOR TO FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING OPENING.



1 TRANSFER AIR DUCT DETAIL



WDM Architects P.A.
105 North Washington
Wichita, KS 67202-2815
T 316.262.4700
F 316.262.0002
wdmarchitects.com

**CHILD START ON SECOND STREET
A REMODEL**

2nd St & Mathewson

PRINTS ISSUED
11-02-2023 FOR BIDDING
01-24-2024 FOR PERMIT

REV.		
NO.	DATE	DESC.

WDM No. 2301060536 drawn: CWM
checked: RLB

MECHANICAL HVAC FLOOR
PLANS

M-101

230000 - HEATING, VENTILATING, AND AIR CONDITIONING

(NOTE: NOT ALL SECTIONS ARE APPLICABLE. REFER TO PLANS).

230100 - GENERAL INSTRUCTIONS

230101 - GENERAL REQUIREMENTS

ALL REQUIREMENTS UNDER DIVISION ONE AND THE GENERAL AND SUPPLEMENTARY CONDITIONS OF THESE SPECIFICATIONS SHALL BE A PART OF THIS SECTION. EACH CONTRACTOR SHALL BE RESPONSIBLE TO BECOME THOROUGHLY FAMILIAR WITH ALL ITS CONTENTS AS TO REQUIREMENTS WHICH AFFECT THIS DIVISION OR SECTION. THE WORK REQUIRED UNDER THIS SECTION INCLUDES ALL MATERIAL, EQUIPMENT, APPLIANCES, TRANSPORTATION, SERVICES AND LABOR REQUIRED TO COMPLETE THE ENTIRE SYSTEM AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS.

230102 - INSPECTION OF SITE

THE CONTRACTOR SHALL PERSONALLY INSPECT THE SITE OF THE PROPOSED WORK AND BECOME FULLY INFORMED AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. FAILURE TO DO SO WILL NOT BE CONSIDERED SUFFICIENT JUSTIFICATION TO REQUEST OR OBTAIN EXTRA COMPENSATION OVER AND ABOVE THE CONTRACT PRICE.

230103 - MATERIAL AND WORKMANSHIP

ALL MATERIAL AND APPARATUS SHALL BE NEW AND IN FIRST CLASS CONDITION. ALL WORKMANSHIP SHALL BE OF THE FINEST POSSIBLE BY EXPERIENCED MECHANICS. ALL INSTALLATIONS SHALL BE MADE IN A MANNER THAT WILL COMPLY WITH APPLICABLE CODES AND LAWS. ANY ABNORMAL NOISE CAUSED BY RATTLING EQUIPMENT, PIPING, DUCTS, AIR DEVICES, AND SQUEAKS IN ROTATING COMPONENTS WILL NOT BE ACCEPTABLE. IN GENERAL, ALL MATERIALS AND EQUIPMENT SHALL BE OF COMMERCIAL SPECIFICATION GRADE IN QUALITY.

230104 - COORDINATION

COORDINATE ALL WORK WITH THAT OF OTHER TRADES SO THAT THE VARIOUS COMPONENTS OF THE SYSTEMS WILL BE INSTALLED AT THE PROPER TIME, WILL FIT THE AVAILABLE SPACE, AND WILL ALLOW PROPER SERVICE ACCESS TO THOSE ITEMS REQUIRING MAINTENANCE. ANY COMPONENTS WHICH ARE INSTALLED WITHOUT REGARD TO THE ABOVE SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.

FIGURED DIMENSIONS SHALL BE TAKEN IN PREFERENCE TO SCALE DIMENSIONS. THE CONTRACTOR SHALL TAKE THEIR OWN MEASUREMENTS AT THE BUILDING, AS VARIATIONS MAY OCCUR; THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ERRORS WHICH COULD HAVE BEEN AVOIDED BY PROPER CHECKING AND INSPECTION.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS WITH TRIM WHICH WILL FIT PROPERLY THE TYPES OF CEILING, WALL, OR FLOOR FINISHES ACTUALLY INSTALLED. MODEL NUMBERS IN SPECIFICATIONS OR SHOWN ON DRAWINGS ARE NOT INTENDED TO DESIGNATE THE REQUIRED TRIM.

230105 - ORDINANCES AND CODES

COMPLY WITH NATIONAL FIRE PROTECTION ASSOCIATION CODES, INTERNATIONAL BUILDING CODE, BOCA, OSHA AND/OR ALL OTHER APPLICABLE CODES AND ORDINANCES. OBTAIN AND PAY FOR ALL PERMITS. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY VIOLATION OF THE LAW. CONTRACTOR SHALL MAINTAIN ALL NECESSARY SIGNAL LIGHTS AND GUARDS FOR THE SAFETY OF THE PUBLIC.

230106 - PROTECTION AND EQUIPMENT

ADEQUATELY PROTECT EQUIPMENT FROM DAMAGE AFTER DELIVERY TO JOB. COVER WITH HEAVY POLYETHYLENE PLASTIC AS REQUIRED TO PROTECT FROM PLASTER, DIRT, PAINT, WATER, OR PHYSICAL DAMAGE. EQUIPMENT WHICH HAS BEEN DAMAGED BY CONSTRUCTION ACTIVITIES WILL BE REJECTED, AND CONTRACTOR IS OBLIGATED TO FURNISH NEW EQUIPMENT OF A LIKE KIND. KEEP PREMISES BROOM CLEAN AT ALL TIMES FROM FOREIGN MATERIAL CREATED UNDER THIS CONTRACT. ALL PIPING, EQUIPMENT, ETC. SHALL HAVE A NEAT AND CLEAN APPEARANCE AT THE TERMINATION OF THE WORK.

230107 - SUBSTITUTIONS

SOME MATERIAL AND EQUIPMENT ARE SPECIFIED BY MANUFACTURER AND CATALOG NUMBERS. THE MANUFACTURER AND CATALOG NUMBERS ARE USED TO ESTABLISH A DEGREE OF QUALITY AND TYPE FOR SUCH EQUIPMENT AND MATERIAL. WHEN ALTERNATE OR SUBSTITUTE MATERIALS AND EQUIPMENT ARE USED, BE RESPONSIBLE FOR SPACE REQUIREMENTS, CONFIGURATIONS, PERFORMANCE, CHANGES IN BASES, SUPPORTS, STRUCTURAL MEMBERS AND OPENINGS IN STRUCTURE, AND OTHER APPARATUS AND TRADES THAT MAY BE AFFECTED BY THEIR USE.

230110 - GUARANTEE GUARANTEE AGAINST DEFECTIVE WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL PAYMENT. GUARANTEE SHALL INCLUDE MATERIAL TO BE REPLACED AND ALL LABOR REQUIRED.

230111 - EXCAVATION, BACKFILLING, CUTTING, PATCHING AND ROUGH-IN WORK

DO ALL EXCAVATION OF ALL MATERIALS ENCOUNTERED INCLUDING ROCK REQUIRED FOR WORK UNDER THIS SECTION. BACKFILL ALL TRENCHES, TAMPING WELL, IN 6" LAYERS. SYSTEM SHALL BE TESTED, MADE TIGHT AND ACCEPTED BEFORE BACKFILL. REMOVE FROM PREMISES ALL EXCESS MATERIAL NOT USED IN BACKFILLING. REPAIR ALL STREETS, SIDEWALKS, DRIVES, PAVING, ETC. DAMAGED. REPAIR MATERIALS SHALL GENERALLY MATCH EXISTING CONSTRUCTION. ALL BACKFILLING AND REPAIRING SHALL MEET ALL REQUIREMENTS OF THE CITY AND OTHERS HAVING JURISDICTION. REPAIR WORK SHALL BE THOROUGHLY FIRST CLASS. CONFORM TO ALL REQUIREMENTS OF DIVISION TWO OF THIS SPECIFICATION.

THIS CONTRACTOR SHALL DO ALL CUTTING OF WALLS, FLOORS, CEILING, ETC. AS REQUIRED TO INSTALL WORK UNDER THIS SECTION. CONTRACTOR SHALL OBTAIN PERMISSION OF THE ARCHITECT BEFORE DOING ANY CUTTING. ALL HOLES SHALL BE CUT AS SMALL AS POSSIBLE. GENERAL CONTRACTOR SHALL PATCH WALLS, FLOORS, ETC. AS REQUIRED BY WORK UNDER THIS SECTION. ALL PATCHING SHALL BE THOROUGHLY FIRST CLASS AND SHALL MATCH THE ORIGINAL MATERIAL AND CONSTRUCTION. COORDINATE WITHOUT DELAY ALL ROUGHING-IN WITH GENERAL CONSTRUCTION. ALL PIPING, CONDUIT, ROUGH-IN SHALL BE CONCEALED EXCEPT IN UNFINISHED AREAS AND WHERE OTHERWISE SHOWN.

230113 - PENETRATIONS

SEAL ALL MECHANICAL FLOOR, WALL AND ROOF PENETRATIONS WATERTIGHT AND WEATHERTIGHT. CAULK AROUND MECHANICAL PENETRATIONS WITH 3M CP-25 FIRE BARRIER CAULK (THICKNESS AS REQUIRED AND RECOMMENDED BY MANUFACTURER) TO MAINTAIN FIRE RESISTANCE RATING OF FIRE-RATED ASSEMBLIES.

230200 - INSULATION AND SHEET METAL WORK

230201 - DUCT INSULATION

PROVIDE DUCT LINER IN ALL RECTANGULAR SUPPLY AND RETURN AIR DUCTWORK LINER SHALL BE 1" THICK. ONE AND ONE HALF POUND DENSITY FIBERGLASS JOHNS-MANVILLE "LINACOUSTIC". DUCT LINER INSTALL WITH MASTIC AND MECHANICAL FASTENERS WITH VINYL SURFACE ON AIRSTREAM SIDE, ACCORDING TO MANUFACTURERS INSTRUCTIONS. DUCTWORK SIZES SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. SHEET METAL MUST BE INCREASED BY LINER THICKNESS IN BOTH DIRECTIONS WHERE LINER IS INSTALLED. SEE DRAWINGS FOR LOCATION, THICKNESSES, ETC.

ALL INSULATING MATERIALS, ADHESIVES, COATINGS, ETC., SHALL HAVE A FLAME SPREAD OF 25 OR LESS AND SMOKE DEVELOPED RATING NOT HIGHER THAN 50. ALL CONTAINERS FOR MASTICS AND ADHESIVES SHALL HAVE U.L. LABEL.

230202 - DUCTWORK

FURNISH AND INSTALL ALL GALVANIZED STEEL DUCTWORK AND HOUSINGS AS SHOWN ON DRAWINGS ALL DUCTWORK SHALL BE IN CONFORMANCE WITH CURRENT SMACNA STANDARDS RELATIVE TO GAUGE BRACING, JOINTS ETC. REINFORCE ALL HOUSINGS AND ALL DUCTWORK OVER 30" WITH 1-1/4" ANGLES. NOT LESS THAN 5'-6" ON CENTERS, AND CLOSER IF REQUIRED FOR SUFFICIENT RIGIDITY TO PREVENT VIBRATION SUPPORT HORIZONTAL RUNS OF DUCT ON NOT TO EXCEED 8'-0" CENTERS FROM STRAP IRON HANGERS. DUCTWORK SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS; METAL SIZE MUST BE INCREASED TO ALLOW FOR LINER THICKNESS. DO NOT SUPPORT CEILING GRID, CONDUITS, PIPES, EQUIPMENT, ETC. FROM DUCTWORK

PROVIDE BALANCING DAMPERS WHERE SHOWN ON DRAWINGS AND WHEREVER NECESSARY FOR COMPLETE CONTROL OF AIR FLOW. WHERE ACCESS TO DAMPERS THROUGH A HARD CEILING IS REQUIRED, COORDINATE ACCESS DOOR LOCATION WITH ARCHITECT. SPLITTER DAMPERS SHALL BE CONTROLLED BY LOCKING QUADRANTS; PROVIDE YOUNG REGULATOR OR VENTLOK END BEARINGS FOR THE DAMPER ROD. VOLUME DAMPERS SHALL BE OPPOSED BLADE INTERLOCKING TYPE, FACTORY MADE BY RUSKIN, APC, AIR BALANCE, GREENHECK OR APPROVED EQUAL. PROVIDE "HETO" FITTING WITH DOUBLE BEARING VOLUME DAMPER FOR ALL ROUND DUCTWORK BRANCH TAKEOFFS TO INDIVIDUAL AIR DEVICES.

240000 - PLUMBING

(NOTE: NOT ALL SECTIONS ARE APPLICABLE. REFER TO PLANS).

240100 - PLUMBING PIPING

240101 - PIPING MATERIALS

NOTE: ALL MATERIALS SPECIFIED OR NOTED ON THE DRAWINGS ARE SUBJECT TO THE APPROVAL OF LOCAL CODE AUTHORITIES. CONTRACTOR SHALL VERIFY APPROVAL BEFORE INSTALLING ANY MATERIAL OR JOINING METHOD.

DOMESTIC WATER (COLD AND HOT); ALL DOMESTIC WATER PIPING INSTALLED ABOVE THE SLAB, WITHIN THE BUILDING, SHALL BE TYPE "L" COPPER TUBE WITH WROUGHT COPPER FITTINGS AND SOLDERED CONNECTIONS MADE UP WITH 95/5 SOLDER. ALL DOMESTIC WATER PIPING INSTALLED BELOW SLAB SHALL BE TYPE "K" COPPER TUBING WITHOUT FITTINGS.

SANITARY DRAINAGE & VENTS:

ABOVE GROUND: HUBLESS, CAST IRON SOIL PIPE AND FITTINGS; CISPI HUBLESS-PIPING COUPLINGS AND COUPLED JOINTS, OR SOLID WALL SCHEDULE 40 PVC.

240102 - PIPING AND EQUIPMENT INSULATION

CERTAINTEE ONE-PIECE FIBERGLASS COVERING WITH FIRE-RESISTANT JACKET WITH SELF-SEALING LAP, OR EQUAL OWENS-CORNING OR ARMSTRONG. COVER FITTINGS WITH ZESTON, KNAUF, OR EQUAL PREMOLDED INSULATING FITTINGS. INSULATION SHALL BE INSTALLED IN A PROFESSIONAL, NEAT APPEARING MANNER; POOR WORKMANSHIP SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

DOMESTIC COLD WATER 1-1/4" AND SMALLER: 0.5".

DOMESTIC COLD WATER 1-1/2" AND LARGER: 1".

HOT AND HOT WATER RECIRC PIPING 1-1/4" AND SMALLER: 1".

HOT AND HOT WATER RECIRC PIPING 1-1/2" AND LARGER: 1-1/2".

PROVIDE A PVC JACKET FOR ANY PIPING WITHING 7'-0" OF THE FLOOR.

240103 - PIPING INSTALLATION

PIPE SHALL BE ACCURATELY CUT FROM JOB MEASUREMENTS AND SHALL BE NEATLY ALIGNED, SECURELY CONNECTED, AND PROPERLY SUPPORTED. PIPING SHALL BE THOROUGHLY CLEANED BEFORE INSTALLATION. PROVIDE PIPE SLEEVES WHERE PIPING PASSES THROUGH STRUCTURE. THREADED, WELDED, AND SOLDERED JOINTS SHALL BE MADE IN A WORKMANLIKE MANNER ACCORDING TO GOOD PIPEFITTING PRACTICES. WHERE WATER PIPING OCCURS IN EXTERIOR WALLS, PIPING SHALL BE HELD AS CLOSE AS POSSIBLE TO THE INTERIOR FACE OF WALL; INSULATION BATT OR OTHER INSULATION (MINIMUM R8) SHALL BE INSTALLED BETWEEN PIPING AND THE EXTERIOR WALL FACE.

240104 - PIPING STERILIZATION

STERILIZE THE ENTIRE DOMESTIC WATER PIPING SYSTEM (COLD, HOT AND HOT WATER RETURN) WITH A SOLUTION CONTAINING NOT LESS THAN 50 PPM AVAILABLE CHLORINE. SOLUTION SHALL REMAIN IN THE SYSTEM A MINIMUM OF 24 HOURS, WITH EACH VALVE BEING OPERATED SEVERAL TIMES DURING THE PERIOD. AFTER COMPLETION, FLUSH SYSTEM WITH CITY WATER UNTIL CHLORINE RESIDUAL IS LOWERED TO INCOMING CITY WATER LEVEL.

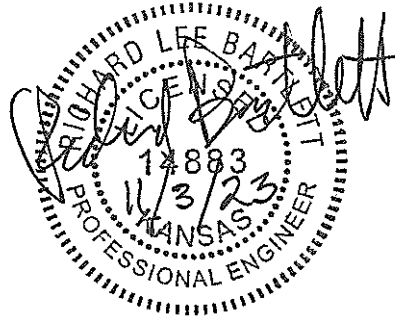
240105 - TESTING

ALL WATER PIPING SHALL BE TESTED WITH 25 PSI OVER STATIC WATER PRESSURE BUT NOT LESS THAN 100 PSI HYDROSTATIC PRESSURE. GAS PIPING SHALL BE TESTED WITH 30 PSIG AIR PRESSURE. ALL WASTE PIPING SHALL BE TESTED WITH ALL STACKS FILLED WITH WATER, AND ANY OTHER TESTS REQUIRED BY THE PLUMBING INSPECTOR. ALL PIPING SHALL BE TESTED BEFORE ANY INSULATION IS INSTALLED, AND BEFORE BACKFILL, AND SHALL BE SUBJECT TO THE ABOVE PRESSURE FOR AN UNINTERRUPTED PERIOD OF NOT LESS THAN 24 HOURS. ALL LINES, JOINTS, FLANGES, VALVE STEMS, ETC., SHALL BE LEAD TIGHT.

240200 - PLUMBING FIXTURES

A. ACCEPTABLE MANUFACTURERS:

- | | |
|----------------------|-------------|
| a. AMERICAN STANDARD | i. DELTA |
| b. KOHLER | j. ELKAY |
| c. ELJER | k. FIAT |
| d. WILLIAMS | l. HAWS |
| e. SLOAN | m. WILLIAMS |
| f. CRANE | |
| g. CHURCH | |
| h. ZURN | |



WDM Architects P.A.
105 North Washington
Wichita, KS 67202-2815
T 316.262.4700
F 316.262.0002
wdmarchitects.com

CHILD START ON SECOND STREET
A REMODEL

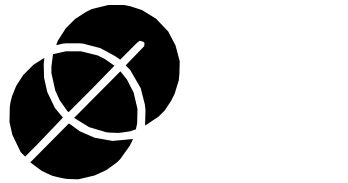
2nd St & Mathewson

PRINTS ISSUED
11-02-2023 FOR BIDDING
01-24-2024 FOR PERMIT

REVS.		
NO.	DATE	DESC.

WDM No. drawn: Author
230116 checked: Checker

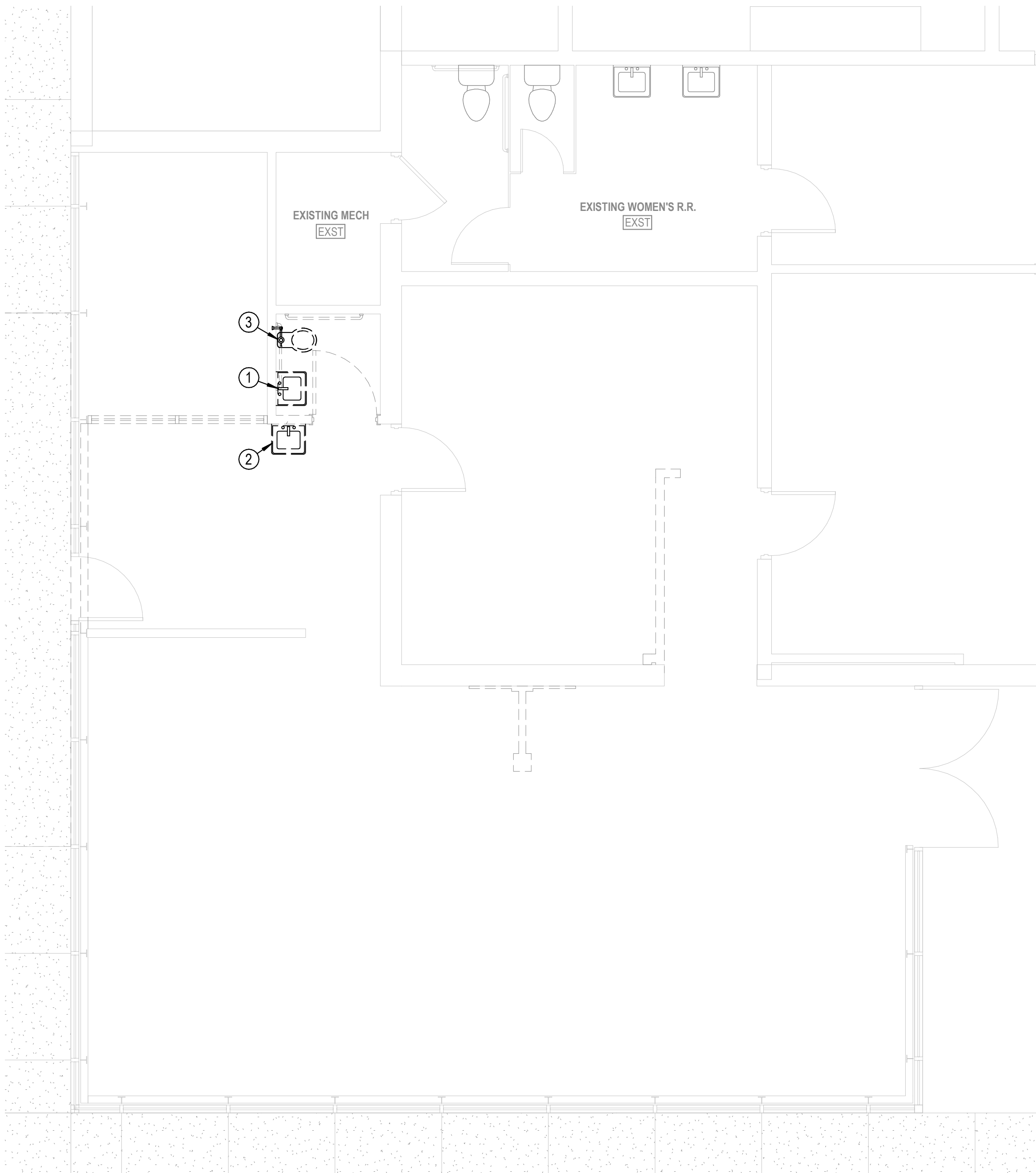
MECHANICAL
SPECIFICATIONS



Wichita, KS · 316.684.9600

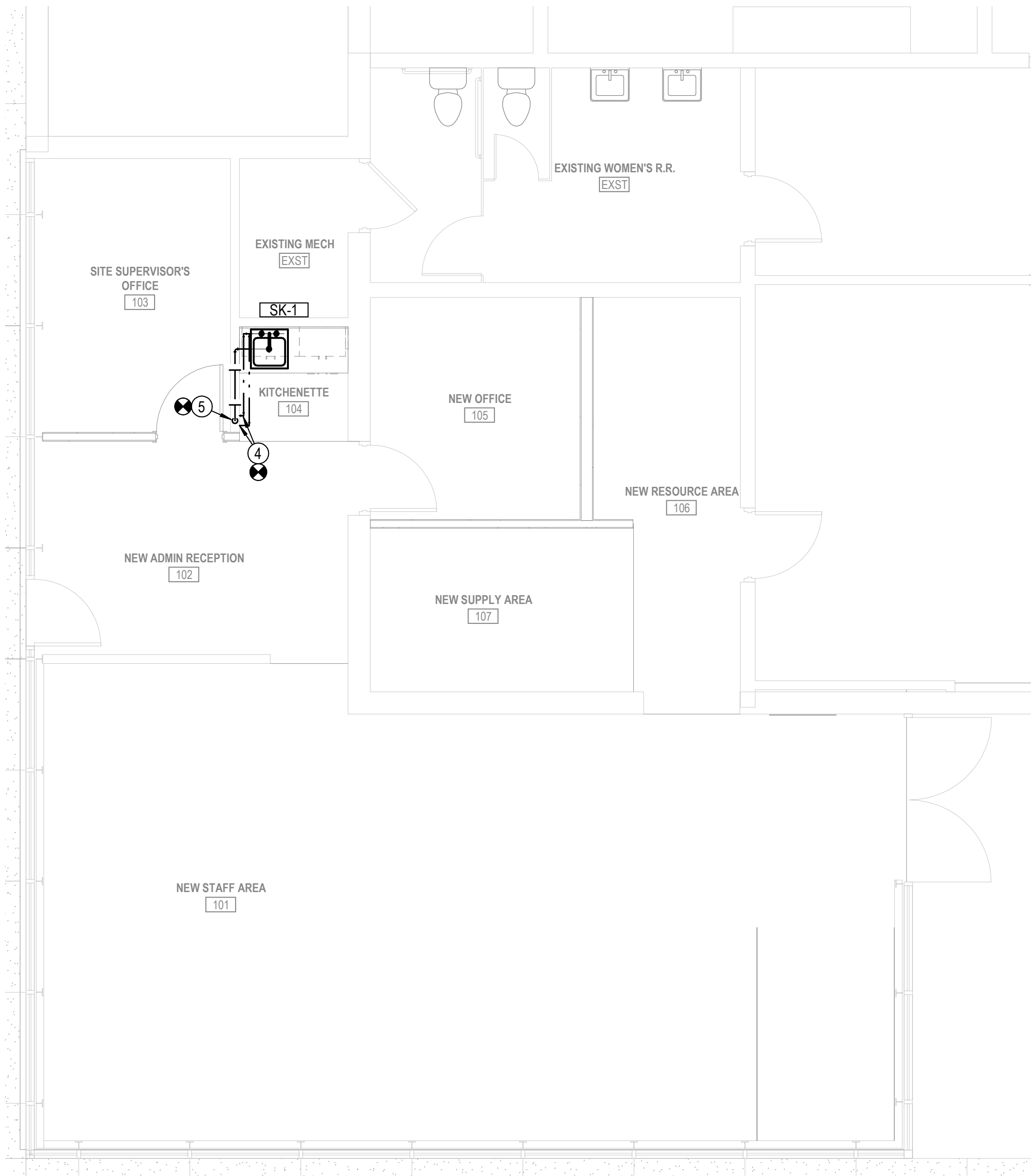
PROJECT: 2301060536

M-102



FIRST FLOOR PLUMBING DEMOLITION PLAN

SCALE: 1/4" = 1'-0"
0' 1' 2' 4' 8'



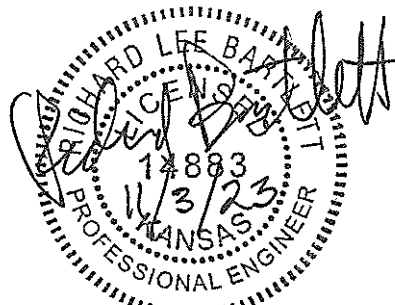
FIRST FLOOR PLUMBING IMPROVEMENT PLAN

SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'

KEYED NOTES

1. DEMOLISH EXISTING LAVATORY AND PREPARE EXISTING WATER AND WASTE PIPING FOR NEW SINK.
2. DEMOLISH EXISTING LAVATORY. DEMOLISH WASTE AND WATER SERVING FIXTURE. CAP WASTE AND COORDINATE WITH GC TO PATCH EXISTING WALL AND FLOOR AS NECESSARY.
3. DEMOLISH EXISTING WATER CLOSET. DEMOLISH WASTE AND WATER SERVING FIXTURE. CAP WASTE AND COORDINATE WITH GC TO PATCH EXISTING WALL AND FLOOR AS NECESSARY.
4. CONNECT NEW SINK TO EXISTING 1/2" HOT AND COLD WATER PIPING FROM DEMOLISHED LAVATORY. CONTRACTOR TO FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING PIPING. COORDINATE WITH GC TO PATCH EXISTING WALL.
5. CONNECT NEW SINK TO EXISTING WASTE AND VENT PIPING FROM DEMOLISHED LAVATORY. CONTRACTOR TO FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING PIPING. COORDINATE WITH GC TO PATCH EXISTING WALL.

PLUMBING FIXTURE SCHEDULE																								
MARK	FIXTURE TYPE	MANUFACTURER	MODEL	MATERIAL	COLOR	SIZE (IN)	MOUNTING	VALVE				TRIM						PIPE ROUGH-IN SIZE					REMARK	
								MFG	MODEL	GPM/GPF	FINISH	DESCRIPTION	MFG	MODEL	MATERIAL	FINISH	DRAIN	P-TRAP	WASTE	VENT	DCW	DHW		
SK-1	ADA 1 COMPARTMENT SINK	ELKAY	LRAD172055	SS	ST	17X20	DROP IN COUNTER	--	--	--	--	FAUCET	DELTA	1980-DST	BRASS	PC	CP METAL BASKET STRAINER	1 1/2"	2"	1 1/2"	1/2"	1/2"	1-3	
PLUMBING FIXTURE SCHEDULE ABBREVIATIONS		PLUMBING REMARKS										PLUMBING FIXTURE SCHEDULE GENERAL NOTES												
ST	MFG STANDARD FINISH	REMARKS	DESCRIPTION									1. UNLESS OTHERWISE NOTED, PC SHALL PROVIDE, INSTALL, & CONNECT ALL SCHEDULED PLUMBING.												
CP	CHROME PLATED	1	PROVIDE WITH POINT OF USE MIXING VALVE LEONARD MODEL 270 OR EQUAL.									2. REFER TO ARCHITECTURAL PLANS & ELEVATIONS FOR INSTALLATION HEIGHTS OF ALL PLUMBING FIXTURES.												
PC	POLISHED CHROME	2	PROVIDE ANGLE STOPS AT FIXTURE ROUGH-IN.									3. ADA SINKS SHALL BE PROVIDED WITH REAR CENTERED DRAIN OPENINGS.												
SS	STAINLESS STEEL	3	IF FIXTURE SKIRT IS NOT SPECIFIED BY THE ARCHITECT, PROVIDE TRUEBRO LAVGUARD 2 OR EQUAL UNDERSINK PIPING COVERS									4. ADA SINKS NOT PROTECTED BY AN ARCHITECTURAL SKIRT PANEL SHALL BE PROVIDED WITH UNDERSINK PIPING COVERS EQUAL TO TRUEBRO LAVGUARD 2.												
BR	BRASS																							



WDM Architects P.A.
105 North Washington
Wichita, KS 67202-2815
T 316.262.4700
F 316.262.0002
wdmarchitects.com

**CHILD START ON SECOND STREET
A REMODEL**
2nd St & Mathewson

PRINTS ISSUED
11-02-2023 FOR BIDDING
01-24-2024 FOR PERMIT

REVS.		
NO.	DATE	DESC.

WDM No. 23016 drawn: CWM
checked: RLB
PLUMBING FLOOR PLANS

P-101

PROJECT GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH CURRENT FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES AS WELL AS THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL REPORT ANY CONFLICTS TO THE ENGINEER AS SOON AS THEY ARE DISCOVERED.
2. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE A.D.A.A.G. (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES).
3. THE CONTRACTOR SHALL REVIEW THE DRAWINGS AND SPECIFICATIONS PRIOR TO BIDDING JOB AND DURING CONSTRUCTION. EXCEPT AS OTHERWISE NOTED, THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, AND LABOR FOR A COMPLETE PROJECT AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS. DRAWINGS AND SPECIFICATIONS CARRY EQUAL IMPORTANCE AND ITEMS LISTED IN EITHER SHALL BE FURNISHED AS IF LISTED IN BOTH. ALSO REVIEW DETAILS AND RISER DIAGRAMS FOR ADDITIONAL ITEMS/INSTRUCTIONS WHETHER SPECIFICALLY REFERRED TO ON PLANS OR NOT.
4. THE CONTRACTOR MUST VISIT THE SITE TO FAMILIARIZE HIMSELF WITH THE EXISTING SITE CONDITIONS WHICH WILL BE AFFECTED DURING CONSTRUCTION PRIOR TO SUBMITTING HIS BID PROPOSAL, INCLUDING THE EXTENT OF DEMOLITION AND CONFLICTS WITH PLANS.
5. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHOW THE GENERAL INSTALLATION OF EQUIPMENT AND MATERIALS IN RELATIONSHIP TO STRUCTURE AND OTHER TRADES. THEY MAY NOT SHOW EVERY REQUIRED OFFSET, FITTING, ETC. CONTRACTOR SHALL FIELD VERIFY ACTUAL JOB CONDITIONS AND COORDINATE WORK WITH OTHER TRADES PRIOR TO BIDDING JOB AND PRIOR TO ORDERING EQUIPMENT, FABRICATION OF MATERIALS, OR STARTING WORK. CONTRACTOR SHALL NOT SCALE THE DRAWINGS.
6. REFER TO ARCHITECTURAL PLANS/SPECIFICATIONS FOR A DETAILED DESCRIPTION OF ALL ALTERNATES AND PHASES.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL ITEMS THAT AFFECT OTHER DISCIPLINES WITH THE CORRESPONDING CONTRACTOR AND THE GENERAL CONTRACTOR IF EQUIPMENT, MATERIALS, ETC. OTHER THAN THOSE SCHEDULED AND SPECIFIED (PENDING PRE-APPROVAL) ARE FURNISHED.
8. CHANGE ORDERS WILL NOT BE GRANTED DUE TO LACK OF COORDINATION WITH JOB CONDITIONS AND/OR OTHER CONTRACTORS.
9. EXISTING EQUIPMENT, DEVICE, AND FIXTURE LOCATIONS ARE SHOWN FOR REFERENCE ONLY. ADJUST EXACT INSTALLATION AND CONNECTION OF NEW ITEMS ACCORDING TO ACTUAL CONDITIONS.
10. G.C. SHALL CUT AND PATCH FLOOR, WALLS, AND ROOFS AS REQUIRED FOR INSTALLATION/DEMOLITION OF ELECTRICAL SYSTEMS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE OF RELOCATED EQUIPMENT AND MATERIALS DURING CONSTRUCTION. ITEMS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
12. UPON COMPLETION OF THE PROJECT THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS TO THE OWNER, ARCHITECT, AND ENGINEER SHOWING EQUIPMENT, DEVICES, FIXTURES, CIRCUITS, ETC. THAT DIFFERS FROM CONSTRUCTION DOCUMENTS AS THEY ARE ACTUALLY INSTALLED.
13. THE RESPONSIBILITY OF EACH CONTRACTOR IS NOT LIMITED TO THEIR SPECIFIC DISCIPLINE'S DRAWING SHEETS. REFER TO OTHER DISCIPLINES' DRAWING SHEETS AS REQUIRED FOR ADDITIONAL INFORMATION/INSTRUCTIONS.
14. FIRE STOP ALL PENETRATIONS THROUGH RATED WALLS. SLEEVE IN ENTIRETY WITH APPROPRIATE SLEEVE MATERIAL.

SHEET LIST TABLE

E-001	ELECTRICAL COVERSHEET
E-101	ELECTRICAL DEMO PLAN
E-201	ELECTRICAL POWER IMPROVEMENT PLAN
E-301	ELECTRICAL LIGHTING IMPROVEMENT PLAN
E-401	ELECTRICAL DETAILS
E-501	ELECTRICAL SCHEDULES
E-601	ELECTRICAL SPECIFICATIONS

ELECTRICAL GENERAL NOTES

















- A. GENERAL:**
1. THE BUILDING SECURITY SYSTEM IS NOT PART OF THE WORK. NOTED RACEWAYS ARE PART OF THE WORK. BUILDING SECURITY SYSTEM BY OTHERS.
2. THE BUILDING TELECOMMUNICATIONS SYTEM IS NOT PART OF THE WORK. NOTED RACEWAYS ARE PART OF THE WORK. CABLING BY OTHERS.
- B. COORDINATION WITH OTHER TRADES:**
1. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS AND REVIEWED SHOP DRAWINGS PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION.
2. ELECTRICAL CONTRACTOR SHALL VERIFY TOTAL CONNECT LOAD/HP WITH MECHANICAL AND ALL OTHER CONTRACTORS PRIOR TO WIRING OF ALL EQUIPMENT. MAKE ANY CHANGES TO OVERCURRENT DEVICES OR FEED SIZE PER THE NATIONAL ELECTRICAL CODE, APPLICABLE VERSION.
3. ALL TEMPERATURE CONTROL WIRING SHALL BE FURNISHED AND INSTALLED BY OTHERS. INSTALL CONDUIT FOR CABLE IN EXPOSED AREAS. REFER TO MECHANICAL PLANS AND SPECIFICATIONS AND THE TEMPERATURE CONTROLS CONTRACTOR FOR EXACT LOCATION OF MECHANICAL EQUIPMENT AND THERMOSTAT LOCATIONS.
- C. CONDUIT AND WIRE:**
1. ALL POWER WIRING OF ALL SYSTEMS SHALL BE COPPER WITH INSULATED GROUND WIRE IN STEEL CONDUIT AND STEEL BOXES UNLESS SPECIFICALLY NOTED OTHERWISE.
2. RACEWAYS SHALL BE ROUTED OVERHEAD UNLESS OTHERWISE NOTED ON THE DRAWINGS. UNDERSLAB RACEWAYS ARE ALLOWED FOR PANEL FEEDERS ONLY UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL PANELBOARD BRANCH CIRCUITS SHALL BE ROUTED OVERHEAD WHERE POSSIBLE.
3. ALL CONNECTIONS TO EQUIPMENT SUBJECT TO MOVEMENT OR VIBRATIONS SHALL BE LIQUID TIGHT FLEXIBLE METAL CONDUIT, NOT LESS THAN 12" IN LENGTH, NOR GREATER THAN 36" IN LENGTH.
4. ALL CABLES INSTALLED IN AIR HANDLING PLENUMS SHALL BE PLENUM RATED CABLE.
5. MULTIPLE CIRCUITS ON THE SAME PHASE SHALL NOT BE COMBINED IN A SINGLE RACEWAY UNLESS OTHERWISE SHOWN ON THE CONTRACT DRAWINGS. SINGLE PHASE BRANCH CIRCUIT HOME RUNS MAY BE COMBINED AT THE CONTRACTOR'S DISCRETION NOT GREATER THAN THREE CIRCUITS CONSISTING OF (3) PHASE CONDUCTORS, (3) NEUTRAL CONDUCTORS, AND GROUNDING CONDUCTOR.
6. THE MINIMUM WIRE SIZE SHALL BE #12 FOR ALL POWER CIRCUITS. EACH CIRCUIT SHALL HAVE A SEPARATE AND DEDICATED NEUTRAL FROM THE PANEL. SEE BRANCH CIRCUIT VOLTAGE DROP TABLE FOR SIZING OF CONDUCTORS.
7. THE MINIMUM CONDUIT SIZE IS 0.5".
8. REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF BUILDING EXPANSION JOINTS. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL BE INSTALLED WITH EXPANSION FITTINGS, UNLESS THE CONDUIT IS BELOW SLAB IN THE DENSE GRADE AGGREGATE. EXPANSION FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC, AND MANUFACTURER'S WRITTEN RECOMMENDATIONS.
9. ALL EXPOSED CONDUIT SHALL BE INSTALLED PARALLEL OR PERPENDICULAR, AND SHALL BE RIGID GALVANIZED UNLESS OTHERWISE NOTED.
10. EXTERIOR EXPOSED CONDUIT RUNS WILL NOT BE PERMITTED. (EXCEPT FOR NEW SERVICE ENTRANCES FOR POWER OR TELEPHONE, OR NOTED OTHERWISE ON PLAN.)
11. UNDER-SLAB CONDUIT SHALL NOT BE IN THE SLAB, BUT BELOW IT IN THE DENSE GRADE AGGREGATE, AND PARALLEL TO THE SLAB.
12. ALL CONDUIT UNDER GROUND SHALL BE A MINIMUM OF 1". THIS APPLIES FOR BOTH LINE VOLTAGE AND DATA/COMMUNICATIONS. ALL BENDS UNDERGROUND, HORIZONTAL OR VERTICAL, SHALL BE RIGID GALVANIZED STEEL. NO EXCEPTION.
13. EACH DATA, TELEPHONE, AND CABLE TV OUTLET REQUIRES 0.75" CONDUIT, WITH PULL ROPE (LABELED AT EACH END FOR LOCATION AND PURPOSE) STUBBED 6" ABOVE NEAREST ACCESSIBLE CEILING UNLESS OTHERWISE NOTED ON PLANS. CONDUITS STUBBED UP ABOVE CEILING SHALL BE TURNED OUT 90°. PROVIDE INSULATED BUSHINGS ON ALL CONDUIT. LABEL CONDUIT TO IDENTIFY ITS INTENDED USE (IE: TELEPHONE, DATA, ETC.). EACH DATA/PHONE BOX SHALL BE A 4" SQUARE BOX WITH SINGLE GANG MUD RING.
14. MAINTAIN MAXIMUM SPACE BETWEEN LOW VOLTAGE CABLES WITH METAL CONDUCTORS AND SOURCES OF INTERFERENCE INCLUDING: POWER WIRING, ALL LIGHT FIXTURES, AND ESPECIALLY MOTORS AND TRANSFORMERS. ELECTRICAL INTERFERENCE IS REDUCED BY DISTANCE FROM SOURCES.
15. FEEDER ROUTING INDICATED ON THE DRAWINGS DOES NOT INDICATE NEC CODE REQUIRED PULL BOXES. E.C. SHALL BE RESPONSIBLE FOR LOCATING AND INSTALLING REQUIRED PULL BOXES FOR EACH FEEDER.
16. ALL CONDUIT, HANGERS, SUPPORTS, AND ACCESSORIES SHALL BE INSTALLED AS HIGH AS POSSIBLE TO MAINTAIN MAXIMUM CLEARANCE ABOVE THE CEILING.
17. E.C. SHALL COORDINATE WITH ARCHITECT AND G.C. FOR ANY TRENCHING REQUIRED FOR FLOOR OUTLETS AND REPAIR FLOOR AFTER INSTALLATION.
18. TERMINATE CONDUCTORS PER EQUIPMENT MANUFACTURER'S RECOMMENDED TORQUE VALUES. IN THE ABSENCE OF MANUFACTURER'S RECOMMENDED TORQUE VALUES, SEE NEC ARTICLE 110.13 AND "INFORMATIVE ANNEX I TIGHTENING TORQUE TABLES" (TABLE I.1, TABLE I.2, AND TABLE I.3) FOR TIGHTEN SCREW-TYPE CONNECTIONS FOR POWER AND LIGHTING CIRCUITS.
19. EXTEND UNSWITCHED HOT WIRE FROM CIRCUIT SERVING LIGHTS IN SPACE TO NORMAL POWER SENSING LUG OF ALL EMERGENCY LIGHTING BATTERY PACKS.
- D. DEVICES AND BOXES:**
1. WHERE SEVERAL DEVICES ARE GANGED TOGETHER, THE COVERPLATE SHALL BE OF THE GANGED STYLE FOR THE NUMBER OF DEVICES USED.
2. RECEPTACLES SHALL NOT BE WIRED TO THE LOAD SIDE OF A GFCI RECEPTACLE.
3. REFER TO THE ARCHITECTURAL DETAILS AND ELEVATIONS FOR MOUNTING HEIGHTS OF SWITCHES, RECEPTACLES, COUNTER TOP DEVICES, TELEPHONE OUTLETS, AND TELEVISION OUTLETS, ETC. ARCHITECTURAL DETAILS OVERRIDE ELECTRICAL SYMBOLS LIST.
4. WEATHERPROOF WHILE IN USE RECEPTACLE COVERS SHALL BE METAL, AND PAINTABLE UNLESS OTHERWISE NOTED.
- E. ELECTRICAL-OTHER:**
1. ALL PANELS SHALL BE PANELBOARD CONSTRUCTION WITH BOLT ON BREAKERS. TANDEM BREAKERS SHALL NOT BE USED.
2. UPON COMPLETION OF PROJECT, E.C. SHALL PROVIDE A FULL TYPED AND UPDATED PANEL DIRECTORY FOR EACH PANELBOARD AFFECTED BY THE SCOPE OF THIS PROJECT.

LINETYPES LEGEND

	EXISTING/REFERENCE		EXISTING TO BE DEMOLISHED
	WORK TO BE DONE		

ELECTRICAL SYMBOLS LEGEND

ABBR.	DESCRIPTION	MOUNTING OR AS INDICATED
LIGHTING	A LIGHT FIXTURE W/ LETTER DESIGNATION	SURFACE OR RECESSED
	A LIGHT FIXTURE W/ EM POWER W/ LETTER DESIGNATION	SURFACE OR RECESSED
	A LIGHT FIXTURE W/ LETTER DESIGNATION	WALL, SURFACE, OR SUSPENDED
	A LIGHT FIXTURE W/ EMERGENCY POWER W/ LETTER DESIGNATION	WALL, SURFACE, OR SUSPENDED
	O A LIGHT FIXTURE W/ LETTER DESIGNATION	SURFACE OR RECESSED
	EM O A LIGHT FIXTURE W/ EMERGENCY POWER W/ LETTER DESIGNATION	SURFACE OR RECESSED
	O A LIGHT FIXTURE W/ LETTER DESIGNATION	WALL
	EM O A LIGHT FIXTURE W/ EMERGENCY POWER W/ LETTER DESIGNATION	WALL
	X A EXIT LIGHT W/ LETTER DESIG. (SHADE INDICATES FACE DIRECTION)	CEILING
	X A EXIT LIGHT W/ LETTER DESIG. (SHADE INDICATES FACE DIRECTION)	WALL - 6" ABOVE DOOR
WIRING DEVICES	A EMERGENCY LIGHT FIXTURE W/ LETTER DESIGNATION	WALL - 12" BFC
	\$ SINGLE POLE SWITCH	WALL - 44" AFF
	\$ 3 THREE-WAY SWITCH	WALL - 44" AFF
	\$ 4 FOUR-WAY SWITCH	WALL - 44" AFF
	\$ P SWITCH WITH PILOT LIGHT	WALL - 44" AFF
	\$ K KEY SWITCH	WALL - 44" AFF
	\$ T TIME SWITCH (SET FOR 30 MIN.)	WALL - 44" AFF
	\$ M HORSE POWER RATED TOGGLE SWITCH	--
	\$ D DIMMER SWITCH	WALL - 44" AFF
	a,b,c,... SWITCHING SCHEME	--
POWER DISTRIBUTION	# MOTION DETECTOR SWITCH (TYPE #)	WALL - 44" AFF
	# MOTION SENSOR W/POWER PACK (TYPE #)	CEILING
	SINGLE RECEPTACLE (SAME RATING AS CIRCUIT)	WALL - 18" AFF
	IG ISOLATED GROUND DUPLEX RECEPTACLE	WALL - 18" AFF
	DUPLEX RECEPTACLE (20 AMP)	WALL - 18" AFF
	CEILING MOUNTED RECEPTACLE	CEILING
	TR TAMPER-RESISTANT DUPLEX RECEPTACLE (20 AMP)	WALL - 18" AFF
	QUAD-PLEX RECEPTACLE	WALL - 18" AFF
	SWITCHED DUPLEX RECEPTACLE	WALL - 18" AFF
	GFCI DUPLEX RECEPTACLE (20 AMP)	WALL - 18" AFF
FIRE ALARM	GFCI QUAD RECEPTACLE	WALL - 18" AFF
	O SPECIAL OUTLET (SEE SCHEDULE)	WALL , FLOOR
	TELEPHONE OUTLET	WALL, FLOOR
	DATA OUTLET	WALL - 18" AFF
	COMBINATION DATA AND TELEPHONE OUTLET	WALL - 18" AFF
	CLOCK OUTLET	WALL
	HTV CABLE T.V. OUTLET	AS NOTED
	CONTROLLER	AS NOTED
	T THERMOSTAT	48" AFF (SEE MECH. DWGS.)
	J JUNCTION BOX	AS NOTED
FIRE ALARM	PULL BOX	FLUSH (GRADE OR FLOOR)
	SAFETY SWITCH (NON-FUSED)	6'-0" AFF TO TOP
	SAFETY SWITCH (FUSED)	6'-0" AFF TO TOP
	\$ DS TOGGLE DISCONNECT SWITCH	WALL
	COMBINATION STARTER	WALL
	EMERGENCY STOP-MUSHROOM HEAD MAINTAINED PUSH BUTTON	44" AFF OR AFG
	MOTOR	AS NOTED
	ELECTRICAL PANELBOARD (SURFACE MTD.)	48" AFF TO CENTER
	ELECTRICAL PANELBOARD (FLUSH MTD.)	48" AFF TO CENTER
	TTb TELEPHONE TERMINAL BOARD (SURFACE MTD.)	NOTE 4
FIRE ALARM	M UTILITY METER	AS NOTED

 FAAN	FIRE ALARM REMOTE ANNUNCIATOR		MANUAL PULL STATION
 FACP	FIRE ALARM CONTROL PANEL		MAGNETIC HOLD OPEN
	HORN/STROBE		DUCT MOUNTED SMOKE DETECTOR
	STROBE		FIRE ALARM TEST SWITCH
	SMOKE DETECTOR		RELAY
	HEAT DETECTOR		TAMPER SWITCH
	FIRE/SMOKE DAMPER		FLOW SWITCH
	SMOKE DAMPER		FIRE ALARM BELL

- SYMBOLS LIST NOTES:
1. SOME MAY NOT BE USED IN THIS SET OF PLANS.
2. ABBREVIATIONS MAY BE WITH OR WITHOUT PERIODS.
3. ALL MOUNTINGS APPLY UNLESS OTHERWISE NOTED.
4. TTb SHALL BE MINIMUM VOID FREE, A/C 3/4" PLYWOOD WITH A FACE SHOWING, KILN DRIED WITH MAXIMUM 15% MOISTURE CONTENT, SECURELY ATTACHED TO WALL FRAMING MEMBERS, WITH FIRE RETARDANT COATING, OR INTUMESCENT WHITE PAINT. COVER WALL WITH TTb PLYWOOD FROM FLOOR TO 8' AFF.
5. LIGHT FIXTURE CAPITAL LETTER DESIGNATIONS KEY TO MATCHING ENTRIES IN THE LIGHTING FIXTURE SCHEDULE.
6. LIGHT FIXTURE SMALL CASE LETTER DESIGNATIONS (IF SHOWN) REPRESENT SWITCHING REQUIREMENTS.
7. ALL MOUNTING HEIGHTS SHALL BE TO CENTERLINE OF DEVICE U.O.N.

ELECTRICAL CONTACTS

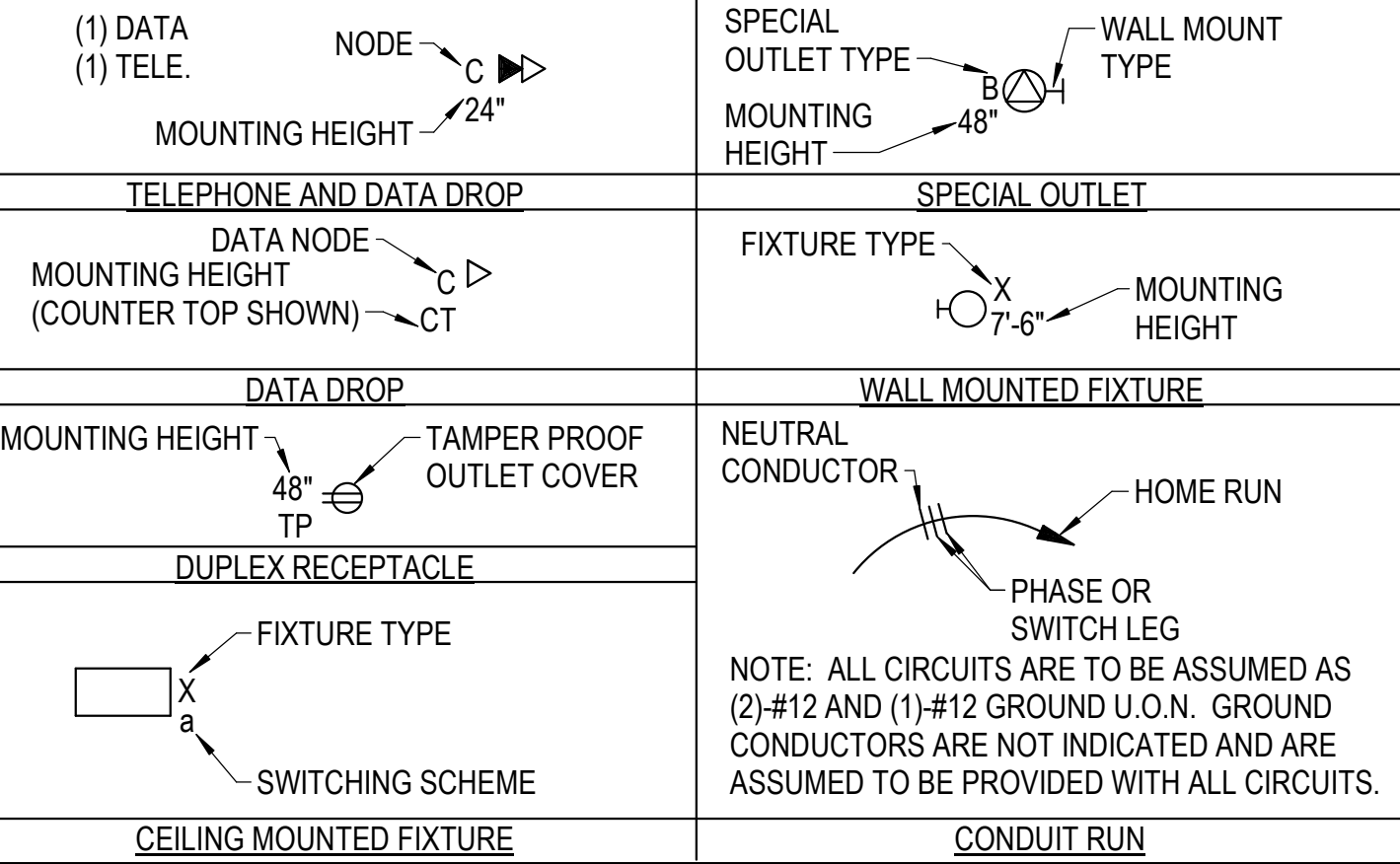
ELECTRICAL DESIGN:
GEOFFREY HUFF, P.E.
PHONE: 316.684.9600 x1256
E-MAIL: GHUFF@MKEC.COM

ABBREVIATIONS

ABBREVIATIONS	DESCRIPTION		
A	AMPERES	IG	ISOLATED GROUND
A/V	AUDIO/VISUAL	IP	INTERNET PROTOCOL
AFF	ABOVE FINISHED FLOOR	J-BOX	JUNCTION BOX
AFG	ABOVE FINISHED GRADE	LTG	LIGHTING
AHJ	AUTHORITIES HAVING JURISDICTION	MAX	MAXIMUM
ATS	AUTOMATIC TRANSFER SWITCH	MC	MECHANICAL CONTRACTOR
BFC	BELOW FINISHED CEILING	MCA	MINIMUM CIRCUIT AMPACITY
BFG	BELOW FINISHED GRADE	MIN	MINIMUM
C	CONDUIT	MOCP	MAXIMUM OVERCURRENT PROTECTION
CB	CIRCUIT BREAKER	(N)	NEW
CLG	CEILING	NL	NIGHT LIGHT
CT	MOUNTED 6" ABOVE COUNTER TOP	NO	NORMALLY OPEN
DN	DOWN	NTS	NOT TO SCALE
(E)	EXISTING	P	POLE
EC	ELECTRICAL CONTRACTOR	(R)	RELOCATED
EM	INDICATES DEVICE ON EMERGENCY CIRCUIT OR W/ EMERGENCY BATTERY	SPD	SURGE PROTECTIVE DEVICE
FLA	FULL LOAD AMPS	TCC	TEMPERATURE CONTROLS CONTRACTOR
FVNR	FULL VOLTAGE NON-REVERSING	TP	TAMPER PROOF OUTLET COVERS
FVR	FULL VOLTAGE REVERSING	TR	TAMPER RESISTANT DEVICE
FWD	FORWARD	TYP	TYPICAL
GC	GENERAL CONTRACTOR	UCT	MOUNTED UNDER COUNTER TOP
GEC	GROUNDING ELECTRODE CONDUCTOR	UON	UNLESS OTHERWISE NOTED
GFI / GFCI	GROUND FAULT INTERRUPTER	V	VOLTS
G/GND	GROUND	WP	WEATHER PROOF
HP	HORSE POWER	WPI	WP IN SERVICE (WITH PLUG IN SERVICE)
		WR	WEATHER RESISTANT TYPE DEVICE

- ABBREVIATION SCHEDULE NOTES:
1. SOME MAY NOT BE USED IN THIS SET OF PLANS.
2. ABBREVIATIONS MAY BE WITH OR WITHOUT PERIODS.

CIRCUITING LEGEND



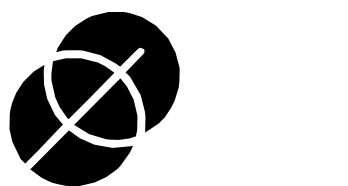
BRANCH VOLT DROP TABLE

FOR COPPER SINGLE PHASE 3% VOLTAGE DROP, 20 A CIRCUIT BREAKER		
MAXIMUM DISTANCE	PHASE & NEUTRAL SIZE	
	PHASE & NEUTRAL SIZE	EQUIPMENT GROUND SIZE
120'		
100'	#12	#12
175'	#10	#10
275'	#8	#8
475'	#6	#6

- VOLTAGE DROP TABLE NOTES:
1. DISTANCE GIVEN IS THE MAXIMUM FOR THE LONGEST RUN FOR ANY BRANCH, PANEL TO LOAD.
2. THE DISTANCES ARE FOR THE ENTIRE RUN IN THE GIVEN WIRE SIZE.
3. WIRE REDUCTIONS (WHERE REQUIRED BY DEVICE CONSTRUCTION) SHALL BE MADE WITHIN 3 FEET OF THE SOURCE OR LOAD, AND SHALL BE ONLY DOWN TO THE LARGEST WIRE SIZE THE DEVICE ALLOWS.
4. OTHER NEC DERATING FACTORS ARE NOT INCLUDED IN THE WIRE SIZES IN THIS TABLE.

CODE INFORMATION

2020 NATIONAL ELECTRICAL CODE WITH LOCAL AMENDMENTS
2018 INTERNATIONAL BUILDING CODE



Wichita, KS · 316.684.9600

PROJECT: 2301060536



wcm
ARCHITECTS

WDM Architects P.A.
105 North Washington
Wichita, KS 67202-2815
T 316.262.4700
F 316.262.0002
wdmarchitects.com

CHILD START ON SECOND STREET
A REMODEL

2nd St & Mathewson

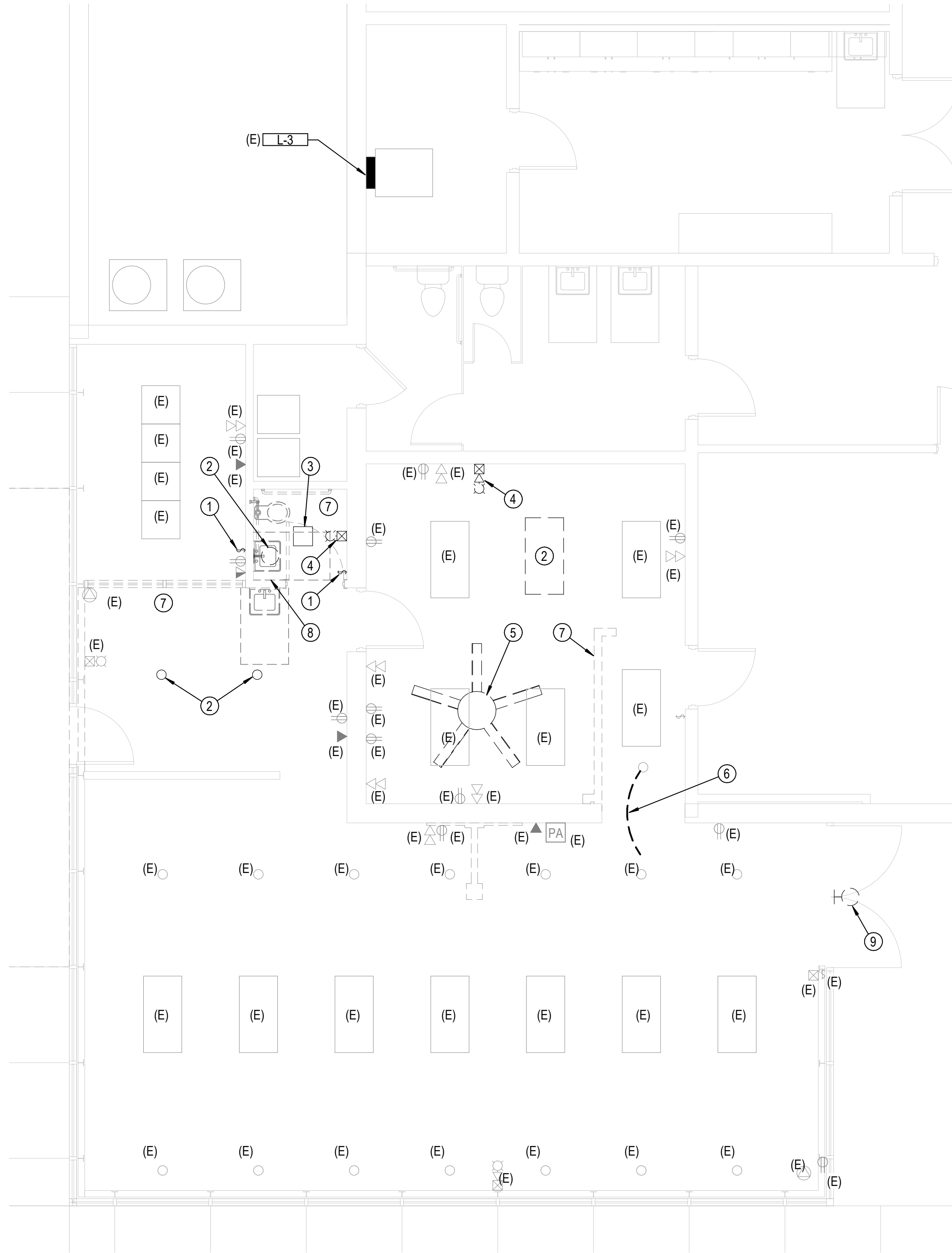
PRINTS ISSUED
11-02-2023 FOR BIDDING
01-24-2024 FOR PERMIT

REVS.		
NO.	DATE	DESC.

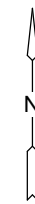
WDM No. drawn: JAC
23016 checked: GAKH
ELECTRICAL COVERSHEET

E-001

© copyright 2020 WDM Architects P.A.



1 ELECTRICAL POWER DEMO PLAN
SCALE: 1/4" = 1'-0"
0' 1' 2' 4' 8'



○ KEYED NOTES

1. REMOVE EXISTING LIGHT SWITCH.
2. REMOVE EXISTING LIGHT FIXTURE.
3. DISCONNECT POWER TO EXHAUST FAN. REMOVE ALL ASSOCIATED CONTROL DEVICES. REMOVE ALL ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.
4. REMOVE EXISTING STROBE AND PRESERVE FOR RE-USE IN IMPROVEMENT WORK. SEE LIGHTING IMPROVEMENT PLAN E-104 FOR NEW LOCATION.
5. DISCONNECT POWER TO CEILING FAN. REMOVE ALL ASSOCIATED CONTROLS DEVICES. REMOVE ALL ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.
6. DIVIDE SWITCHED CIRCUIT TO PROVIDE CONTROL AS SHOWN ON LIGHTING IMPROVEMENT PLAN E-104.
7. REMOVE ALL DEVICES AND WIRING WITHIN WALLS TO BE REMOVED.
8. WIRING AND DATA CABLING WITHIN PLENUM SPACE TO BE RELOCATED AND SECURED.
9. REMOVE EXISTING EXTERIOR LIGHT FIXTURE. REMOVE ANY ASSOCIATED SWITCHES.



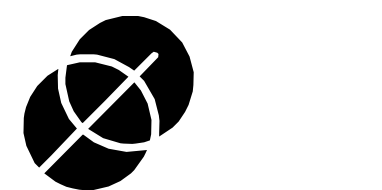
WDM Architects P.A.
105 North Washington
Wichita, KS 67202-2815
T 316.262.4700
F 316.262.0002
wdmarchitects.com

CHILD START ON SECOND STREET A REMODEL 2nd St & Mathewson

PRINTS ISSUED
11-02-2023 FOR BIDDING
01-24-2024 FOR PERMIT

REVS.		
NO.	DATE	DESC.

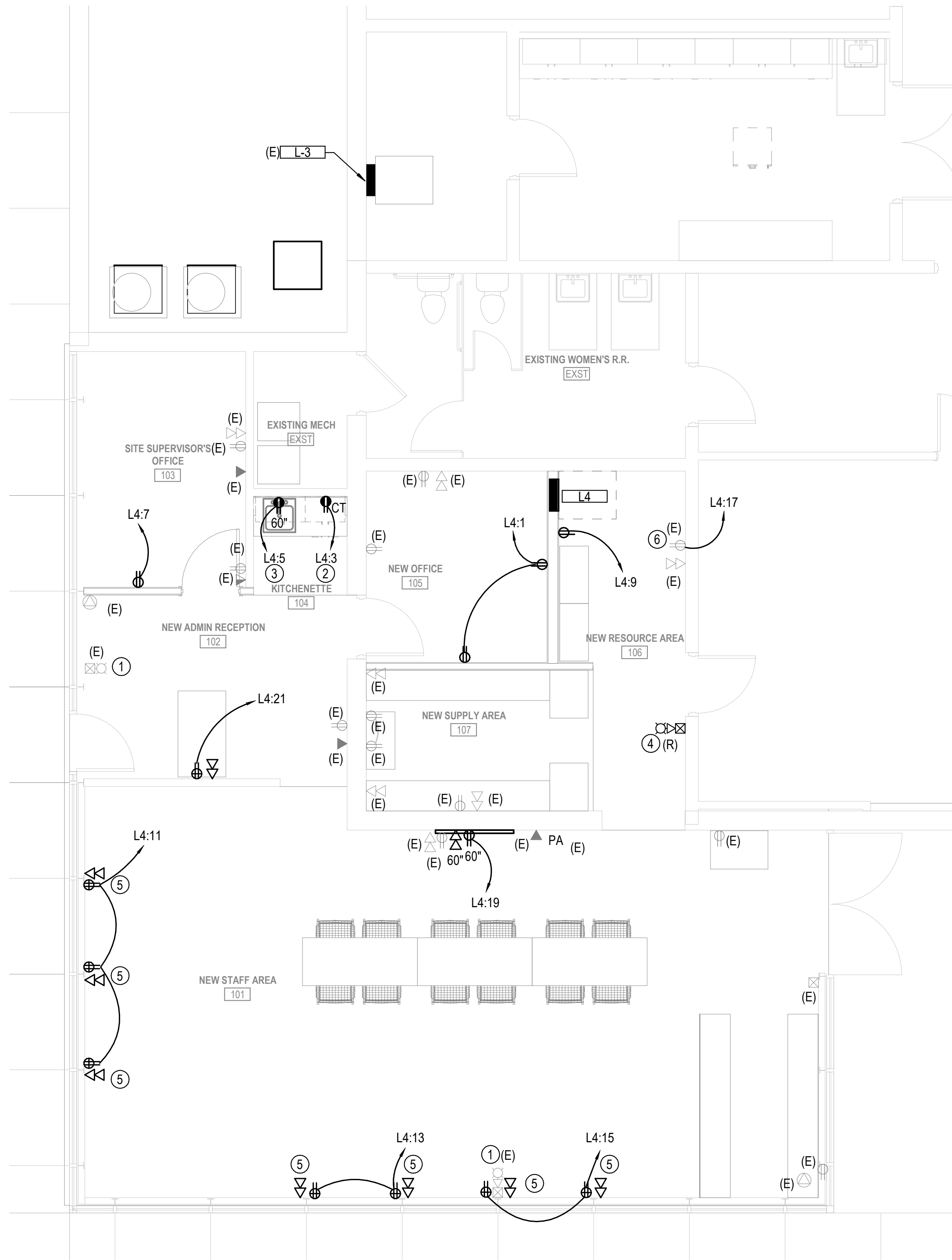
WDM No. drawn: JAC
23016 checked: GAKH
ELECTRICAL DEMO PLAN



MKEC

Wichita, KS • 316.684.9600
PROJECT: 2301060536

E-101

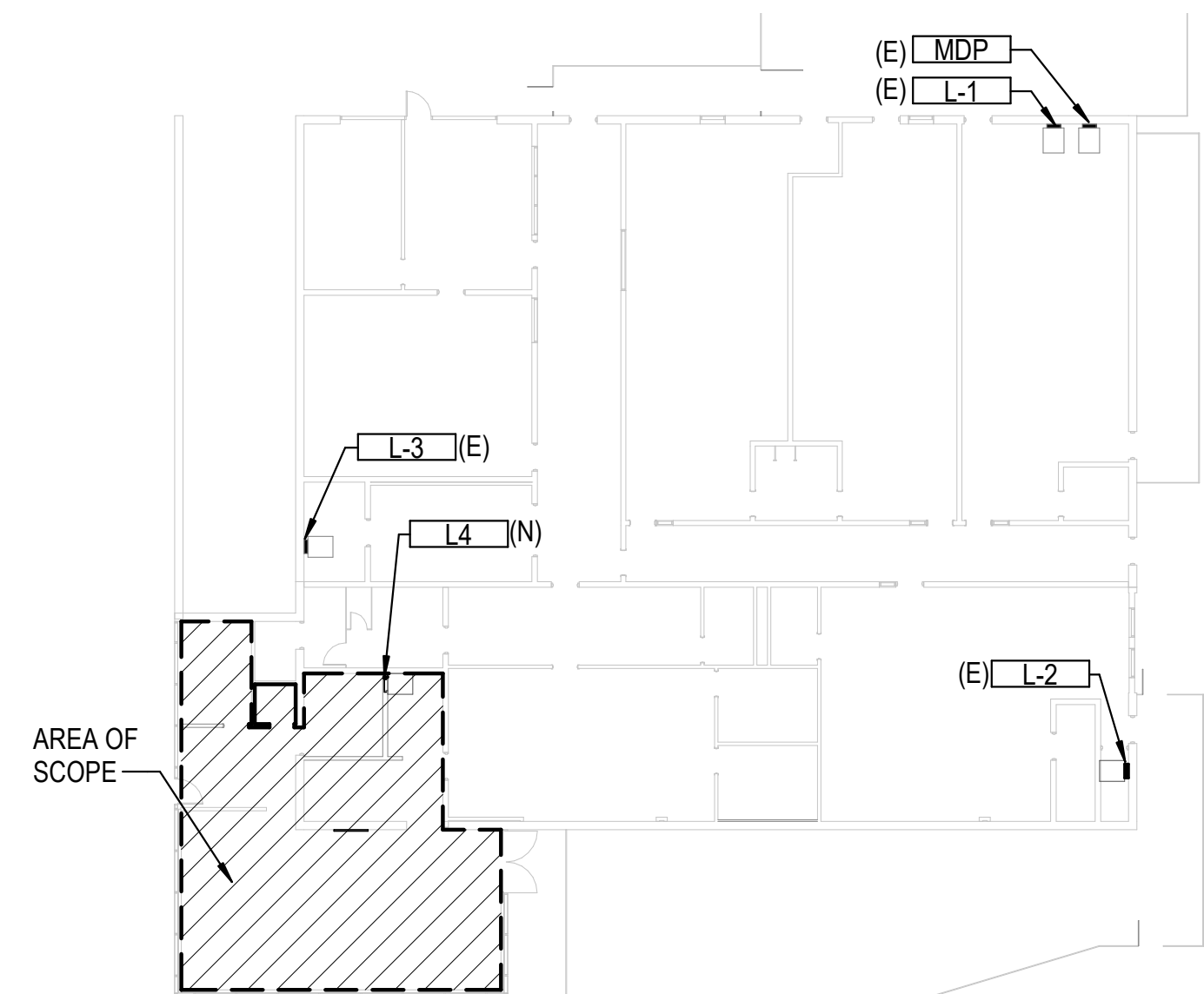


1 **ELECTRICAL POWER IMPROVEMENT PLAN**
SCALE: 1/4" = 1'-0"
0' 1' 2' 4' 8'

○ KEYED NOTES

1. CONTRACTOR TO VERIFY CANDELA RATING OF EXISTING FIRE ALARM DEVICES IS ADEQUATE FOR NEW LAYOUT - IF COVERAGE IS INSUFFICIENT, RELOCATE. ADD ADDITIONAL OR UPGRADE DEVICE TO PROVIDE ADEQUATE COVERAGE.
2. PROVIDE DEDICATED GFCI RECEPTACLE FOR COFFEE MAKER.
3. PROVIDE DEDICATED GFCI RECEPTACLE FOR MICROWAVE IN CABINET.
4. INSTALL EXISTING FIRE ALARM STROBE IN NEW LOCATION AS SHOWN.
5. ROUTE POWER AND DATA DOWN FLANGE OF STEEL COLUMN THEN ENTER EXISTING FURRED OUT HALF WALL. LOCATE DEVICES WITHIN HALF WALL. MOUNT TO EXISTING VERTICAL 2x4 WITHIN HALF WALL. PROVIDE NECESSARY SUPPORTS.
6. RECONNECT EXISTING DEVICE TO NEW DEDICATED CIRCUIT FOR COPIER.

NOTE: ALL NEW RECEPTACLES SHALL BE TAMPER RESISTANT.



NOTE: PLAN IS SHOWN FOR REFERENCE.
FIELD VERIFY EXACT LOCATIONS.

2 **EXISTING LOCATION PLAN**

SCALE: 1" = 20'-0"
0' 5' 10' 20' 40'



Wichita, KS · 316.684.9600
PROJECT: 2301060536



WDM Architects P.A.
105 North Washington
Wichita, KS 67202-2815
T 316.262.4700
F 316.262.0002
wdmarchitects.com

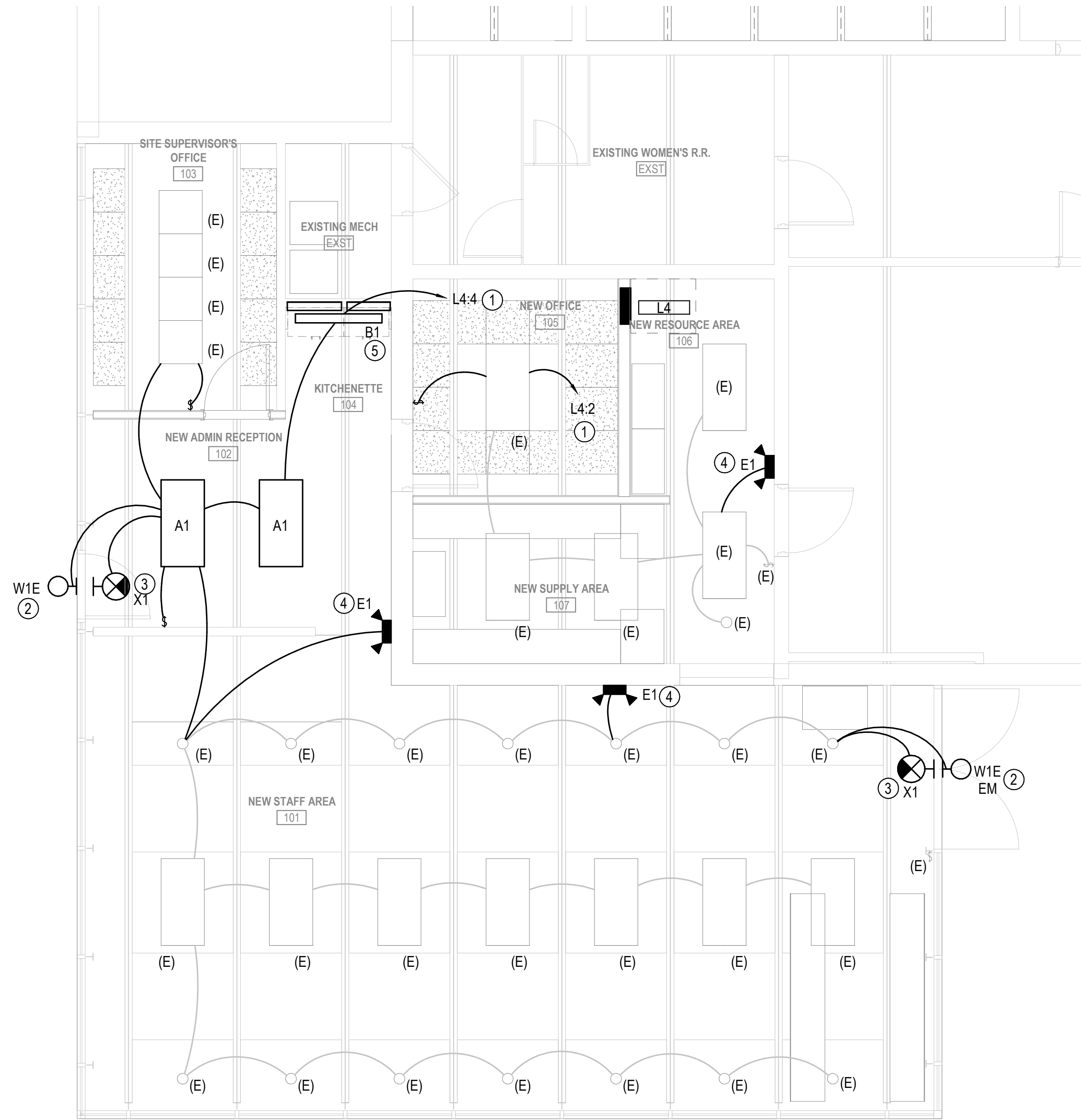
**CHILD START ON SECOND STREET
A REMODEL**
2nd St & Mathewson

PRINTS ISSUED
11-02-2023 FOR BIDDING
01-24-2024 FOR PERMIT

REVS.		
NO.	DATE	DESC.

WDM No. drawn: JAC
23016 checked: GAKH
ELECTRICAL POWER
IMPROVEMENT PLAN

E-201



ELECTRICAL LIGHTING IMPROVEMENT PLAN

SCALE: 1/4" = 1'-0"

0' 1' 2' 4' 8'

KEYED NOTES

1. CREATE NEW SWITCHED LIGHTING CIRCUIT. CONNECT TO EXISTING LIGHT FIXTURES AS SHOWN. INTERCEPT EXISTING CIRCUIT, REMOVE UNUSED CONDUIT AND WIRE BACK TO SOURCE.
2. MOUNT WALL PACK LIGHT FIXTURE TO EXISTING EXTERIOR WALL. CONNECT TO UNSWITCHED CIRCUIT AS SHOWN.
3. MOUNT BOTTOM OF EXIT SIGN 6" ABOVE TOP OF DOOR. COONECT TO UNSWITCHED CIRCUIT AS SHOWN.
4. MOUNT EGRESS LIGHT ON WALL 6" BELOW STRUCTURE. CONNECT TO UNSWITCHED CIRCUIT AS SHOWN.
5. MOUNT FIXTURE TO BOTTOM OF UPPER CABINETS.



WDM Architects P.A.
105 North Washington
Wichita, KS 67202-2815
T 316.262.4700
F 316.262.0002
wdmarchitects.com

**CHILD START ON SECOND STREET
A REMODEL**

2nd St & Mathewson

PRINTS ISSUED
11-02-2023 FOR BIDDING
01-24-2024 FOR PERMIT

REVS.		
NO.	DATE	DESC.

WDM No. 23016
drawn: JAC
checked: GAKH

ELECTRICAL LIGHTING
IMPROVEMENT PLAN



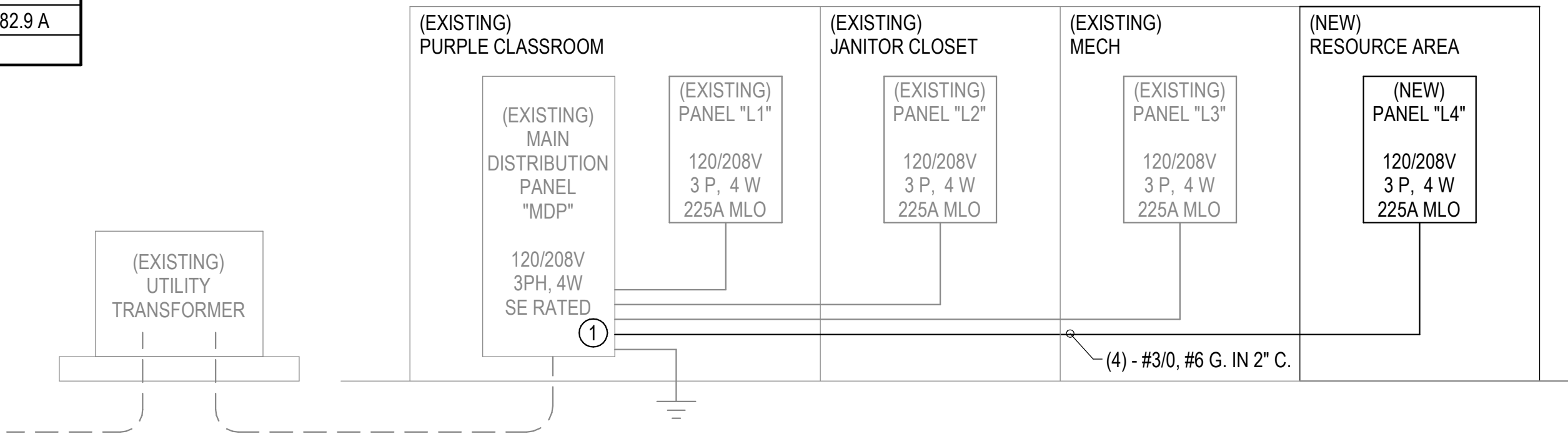
Wichita, KS • 316.684.9600
PROJECT: 2301060536

E-301

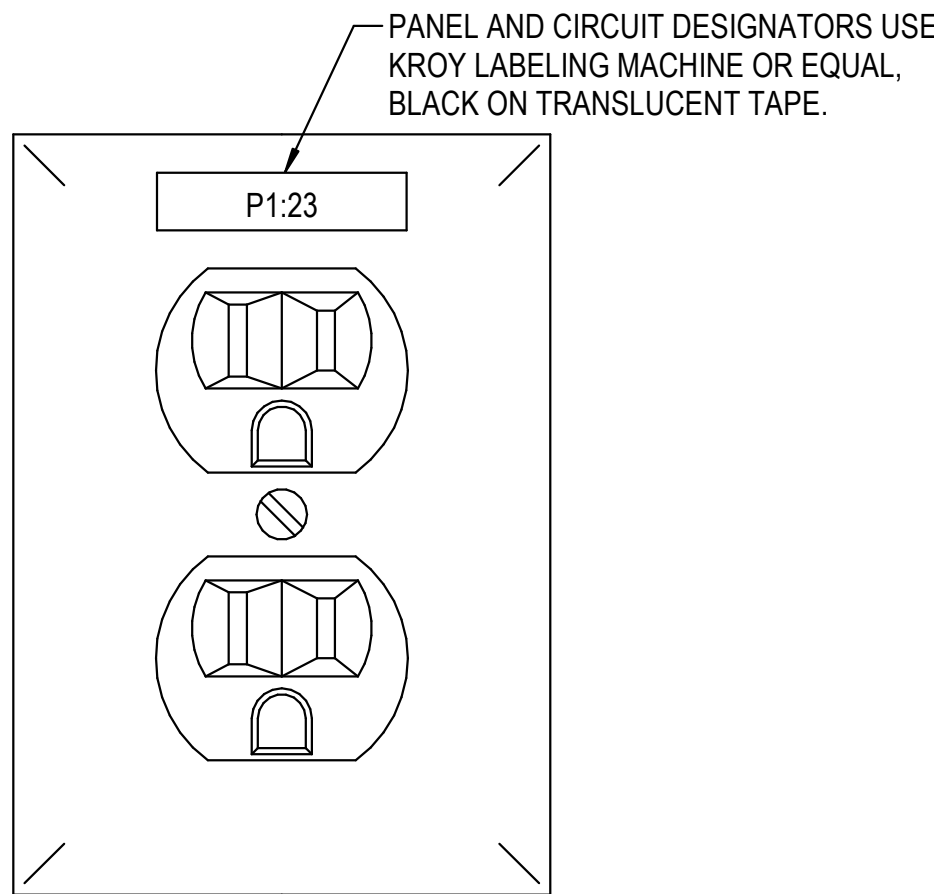
LOAD SUMMARY		
EXISTING PEAK DEMAND:	50.4 KVA	139.9 A
EXISTING PEAK DEMAND x 125 %:	62.9 KVA	174.9 A
ADDED LOAD	8.0 KVA	22.2 A
TOTAL LOAD	70.9 KVA	197.1 A
SERVICE CAPACITY	-	380 A
REMAINING SPARE CAPACITY:	-	182.9 A

KEYED NOTES

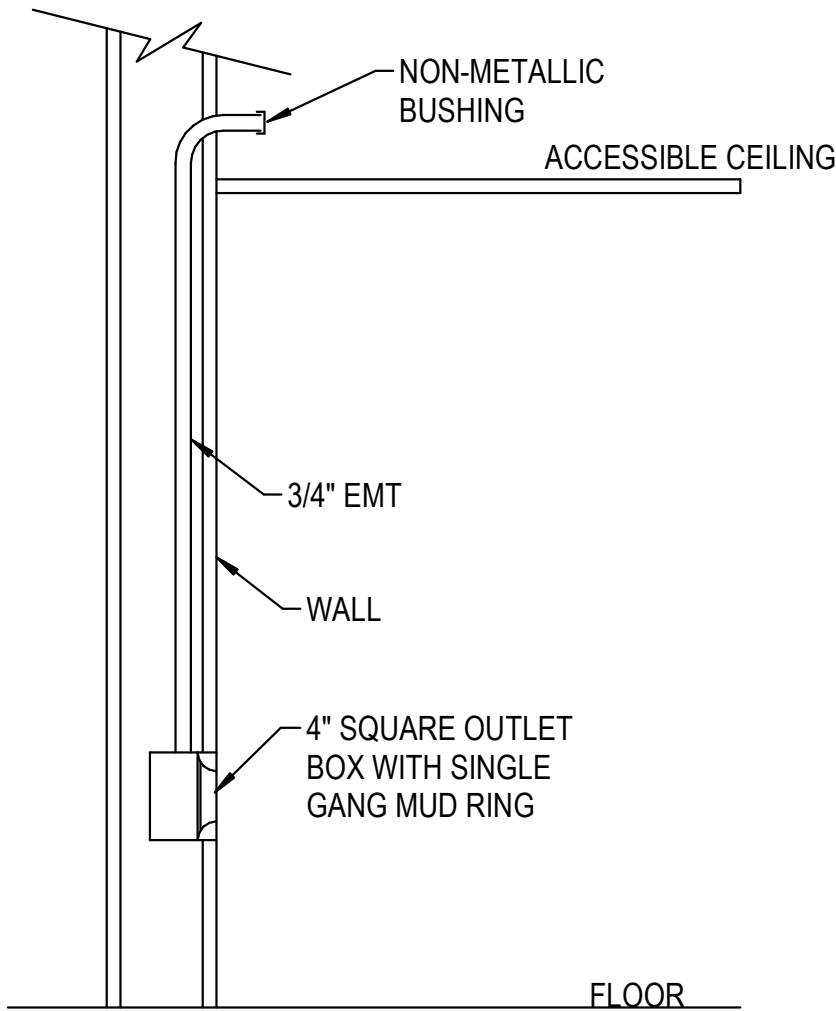
1. UTILIZE EXISTING 200A/3P SPARE BREAKER.



1 ONE-LINE DIAGRAM



2 DEVICE IDENTIFICATION TAGS



3 DATA OUTLET DETAIL

REVS.		
NO.	DATE	DESC.

PANEL: MDP					BRANCH PANELBOARD - NORMAL POWER													
LOCATION: PURPLE CLASSROOM EXST FED FROM: MOUNTING: Surface ENCLOSURE: Type 1					VOLTAGE: 120/208 PHASE: 3 WIRES: 4				A.I.C.: MAINS: 400 A M.C.B.: N/A				LOAD TYPE: L=LIGHTING, R=RECEPTACLE, M=MOTORS, Ho=HOSPITAL, K=KITCHEN, H=HEAT, Mi=MISC					
CKT	LOAD DESCRIPTION	TRIP	POLE	TYPE	A		B		C		TYPE	POLE	TRIP	LOAD DESCRIPTION	CKT			
1	AC EAST	80 A	3	--	0	0					--	3	80 A	AC WEST	2			
3							0	0									4	
5									0	0							6	
7					0	0											8	
9	PANEL L1	100 A	3	--			0	0			--	3	100 A	PANEL L3	10			
11									0	0							12	
13	PANEL L4 (2)	100 A	3	Spare; R; L	1735	0					--	3	200 A	PANEL L2	14			
15							2644	0									16	
17									2260	0								18
TOTAL LOAD / PHASE (VA)					1735 VA		2644 VA		2260 VA									
TOTAL AMPS / PHASE					14.5 A		22.7 A		19.5 A									
LOAD SUMMARY																		
LOAD TYPES		CONNECTED LOAD		DEMAND FACTOR		DEMAND		PANEL TOTALS										
LIGHTS		1499 VA		1.25 CONTINUOUS		1874 VA												
RECEPTACLES		5140 VA		Per NEC Table 220.44		5140 VA		TOTAL CONN. LOAD (VA) 6639										
MOTORS				Per NEC 220.50				TOTAL DEMAND LOAD (VA) 7014										
HOSPITAL				Per NEC Table 220.11				TOTAL CONN. CURRENT 18.4										
KITCHEN				Per NEC Table 220.56				TOTAL DEMAND CURRENT 19.5										
HEAT				Per NEC 220.51														
MISC				1.00														
NOTES: 1. EXISTING LOADS FOR REFERENCE ONLY. 2. CONNECT NEW LOAD TO EXISTING BREAKER.																		

LIGHT FIXTURE SCHEDULE												
FIXT. LTR.	MANUFACTURER	CATALOG NUMBER	LAMPS		DRIVER		FIXT. VOLT.	FINISH	MOUNTING	FIXTURE VA	REMARKS/DESCRIPTION	SPECIFIC NOTES
			#	TYPE	#	TYPE						
A1	WILLIAMS	BP-24-LS/8CS-DRV-UNV-BP24SMK-W	-	LED	1	DIM-TO-OFF	120	STANDARD	SURFACE	50	2X4 LED PANEL WITH SURFACE MOUNT KIT	
B1	COOPER	UCL-4-LD2-35-A12125-ED-UNV-WRS/120	-	LED	1	NON-DIM	120	STANDARD	UNDER CABINET	21	4' LED UNDER CABINET LIGHT WITH ROCKER SWITCH	
E1	WILLIAMS	EMER/LED-WHT-SDT-D	-	LED	1	NON-DIM	120	WHITE	WALL/CEILING	2	EGRESS LIGHTING	
W1E	COOPER	XTOR6B-CBP	-	LED	1	NON-DIM	120	STANDARD	WALL	52	LED WALL PACK	
X1	WILLIAMS	EXIT/EMI/LED-R-WHT-SDT-D	-	LED	1	NON-DIM	120	STANDARD	WALL/CEILING	3	EXIT SIGNAGE	

GENERAL NOTES (APPLY TO ALL LIGHTING):

A. ALL LIGHTING FIXTURES SHALL BE RATED FOR LIGHTING POWER CIRCUIT VOLTAGE. CONTRACTOR MUST VERIFY ALL LOCATIONS.

B. ELECTRICAL CONTRACTOR SHALL CHECK AND COORDINATE ALL LIGHTING FIXTURE CATALOG NUMBERS WITH THE INTENT OF FIXTURE DESCRIPTIONS, LISTED ACCESSORIES AND TYPE OF INSTALLATION.

C. ELECTRICAL CONTRACTOR SHALL PROVIDE EACH LIGHTING FIXTURE COMPLETE WITH PLASTER FRAMES AND ALL OTHER INSTALLATION AND HANGING HARDWARE AS REQUIRED FOR A COMPLETE AND FINISHED INSTALLATION AT EACH FIXTURE LOCATION.

D. ALL FIXTURES SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) AND LABELED. ALL LIGHTING FIXTURES EXPOSED TO WEATHER, MOISTURE, OR OTHER ENVIRONMENTS SHALL BEAR THE APPLICABLE ENVIRONMENTAL OR APPLICATION LABEL.

E. ALL EXIT/DIRECTIONAL SIGNS SHALL BE INSTALLED COMPLETE WITH ALL INSTALLATION AND HANGING ACCESSORIES TO PROVIDE AN UNOBSTRUCTED VIEW OF EACH SIGN FACE. SIGNS WILL BE ADJUSTED AS NECESSARY WITHOUT ADDITIONAL COST TO THE OWNER.

F. SIGNS TO READ "EXIT". SIGNS WILL BE SINGLE OR DOUBLE FACE, WITH OR WITHOUT DIRECTIONAL ARROWS, AS SHOWN ON PLANS. SIGNS IN GENERAL WILL BE CEILING MOUNTED, LOCATED AND ADJUSTED FOR BEST VIEW. PENDANTS SHALL NOT BE USED UNLESS SPECIFICALLY INDICATED ON PLANS. SHADED PORTION OF EXIT SYMBOL DENOTES ILLUMINATION FACE.

G. REFER TO APPLICABLE SECTIONS OF THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR LIGHTING FIXTURES.

H. VERIFY ALL LIGHTING FIXTURE LOCATIONS, FINISHES AND CEILING TYPES WITH ARCHITECT PRIOR TO INSTALLING. VERIFY VOLTAGE WITH ENGINEER PRIOR TO INSTALLING.

I. ELECTRICAL CONTRACTOR TO FIELD ADJUST AIMING PATTERN OF EXTERIOR LIGHTS AT NIGHT SESSION. OWNER & ARCHITECT TO DETERMINE TIME AND DATE.

J. SURFACE MOUNTED FIXTURES MOUNTED TO A "T" BAR CEILING GRID SHALL BE FASTENED TO GRID IN FOUR PLACES TO INSURE RIGID SUPPORT.

K. INSTALLATION ELEVATION SHOWN IS FROM AFF OR AFG AS OBVIOUSLY APPLICABLE. TO CENTER OF OUTLET BOX, UNLESS OTHERWISE NOTED.

L. FIXTURE SUBSTITUTIONS: SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR APPROVAL, 7 BUSINESS DAYS PRIOR TO BID. SUBMIT CUT SHEETS OF SPECIFIED ITEM ALONG WITH A CUT SHEET OF THE DESIRED SUBSTITUTION, WITH ALL DIFFERENCES NOTED. EMAIL CUT SHEETS INCLUDING PHOTOMETRIC INFORMATION TO ELECTRICAL ENGINEER. FAX TRANSMISSIONS ARE NOT ACCEPTABLE. SUBSTITUTIONS NOT SUBMITTED AS PER THIS PROCEDURE WILL NOT BE CONSIDERED. THE ENGINEER'S DECISION OF APPROVAL OR DISAPPROVAL OF A PROPOSED SUBSTITUTE SHALL BE FINAL.

M. SHOP DRAWINGS: DIFFERENCES SHALL BE SPECIFICALLY NOTED ON THE "SHOP DRAWINGS," THIS INCLUDES BUT IS NOT LIMITED TO: FIXTURE SUBSTITUTIONS, LAMPS, VOLTAGE, MOUNTING, PHYSICAL DIMENSIONS AND FINISHES. FAILURE TO COMPLY DOES NOT RELIEVE THE CONTRACTOR OF DESIGN DOCUMENT INTENTION AND WILL NOT BE REASON FOR ADDITIONAL REIMBURSEMENT. ADDITIONAL REQUIREMENTS MAY BE FOUND ELSEWHERE IN THE DRAWINGS OR SPECIFICATIONS.

PANEL: L3				BRANCH PANELBOARD - NORMAL POWER												
LOCATION: EXISTING MECH EXST FED FROM: MOUNTING: Surface ENCLOSURE: Type 1				VOLTAGE: 120/208 PHASE: 3 WIRES: 4				A.I.C.: MAINS: 200 A M.C.B.: N/A				LOAD TYPE: L=LIGHTING, R=RECEPTACLE, M=MOTORS, Ho=HOSPITAL, K=KITCHEN, H=HEAT, Mi=MISC				
CKT	LOAD DESCRIPTION	TRIP	POLE	TYPE	A		B		C		TYPE	POLE	TRIP	LOAD DESCRIPTION	CKT	
1	DISHWASHER	40 A	2	--	0	0					--	3	60 A	AC UNITS 2 & 3	2	
3							0	0								4
5									0	0						
7	OFFICE FURNITURE	20 A	1	--			0	0		0		1	20 A	TELEPHONE	8	
9	OFFICE FURNITURE	20 A	1	--	0	0					--	1	--	Space	10	
11	Spare	20 A	1	--							--	1	--	MECH RM LIGHTS	12	
13	RECEPTS UPSTAIRS...	20 A	1	--	0	0					--	1	20 A	UPSTAIRS STORAGE L ODD	14	
15	COPIER	20 A	1	--			0	0			--	1	20 A	UPSTAIRS STORAGE L EVEN	16	
17	Spare	20 A	1	--					0	0	--	1	20 A	FIRE ALARM PANEL	18	
19	ATTIC LIGHTS	20 A	1	--	0	0					--	1	20 A	101-102 OFFICE & RECEPTS	20	
21	KITCHEN LIGHTS	20 A	1	--			0	0			--	1	20 A	100-101 OFFICE & RECEPTS	22	
23	FURNACE	20 A	1	--					0	0	--	1	20 A	OFFICE RECEPTS	24	
25	RECEPTS FURNACE RM.	20 A	1	--	0	0					--	1	20 A	NW OFFICE LIGHTS	26	
27	HALLWAY RECEPTS	20 A	1	--			0	0			--	1	20 A	MICROWAVE EAST	28	
29	SECURITY	20 A	1	--					0	0	--	1	20 A	WARMER EAST	30	
31	FREEZER	20 A	1	--	0	0					--	1	20 A	MICROWAVE CTR	32	
33	REFRIGERATOR	20 A	1	--			0	0			--	1	20 A	OFFICE & RECEPTION LIGHT	34	
35	MICROWAVE WEST	20 A	1	--					0	0	--	1	20 A	DISHWASHER/DISPOSAL	36	
37	AC UNIT 1	35 A	3	--	0	0					--	1	20 A	GFI KITCHEN WEST NORTH	38	
39							0	0			--	1	20 A	GFI KITCHEN EAST SOUTH	40	
41										0	0	--	1	20 A	WARMER WEST	42
TOTAL LOAD / PHASE (VA)					0 VA		0 VA		0 VA							
TOTAL AMPS / PHASE					0.0 A		0.0 A		0.0 A							
LOAD SUMMARY																
LOAD TYPES		CONNECTED LOAD		DEMAND FACTOR		DEMAND		PANEL TOTALS								
LIGHTS				1.25 CONTINUOUS				TOTAL CONN. LOAD (VA)								0
RECEPTACLES				Per NEC Table 220.44				TOTAL DEMAND LOAD (VA)								0
MOTORS				Per NEC 220.50				TOTAL CONN. CURRENT								0.0
HOSPITAL				Per NEC Table 220.11				TOTAL DEMAND CURRENT								0.0
KITCHEN				Per NEC Table 220.56												
HEAT				Per NEC 220.51												
MISC				1.00												
NOTES:																
1. EXISTING PANEL FOR REFERENCE. LABEL VACATED CIRCUITS AS SPARE.																

PANEL: L4				BRANCH PANELBOARD - NORMAL POWER												
LOCATION: NEW RESOURCE AREA 106 FED FROM: MDP MOUNTING: Recessed ENCLOSURE: Type 1				VOLTAGE: 120/208 PHASE: 3 WIRES: 4				A.I.C.: 10000 MAINS: 225 A M.C.B.: N/A				LOAD TYPE: L=LIGHTING, R=RECEPTACLE, M=MOTORS, Ho=HOSPITAL, K=KITCHEN, H=HEAT, Mi=MISC				
CKT	LOAD DESCRIPTION	TRIP	POLE	TYPE	A		B		C		TYPE	POLE	TRIP	LOAD DESCRIPTION	CKT	
1	R NEW OFFICE 105	20 A	1	R	360	295					L	1	20 A	L SUPPLY / OFFICE	2	
3	R KITCHENETTE	20 A	1	R			180	1204			L	1	20 A	L RECEPTION / OFFICE	4	
5	R MICROWAVE	20 A	1	R					180	0	--	1	20 A	Spare	6	
7	R NEW OFFICE 103	20 A	1	R	180	0					--	1	20 A	Spare	8	
9	R NEW RESOURCE AREA	20 A	1	R			180	0			--	1	20 A	Spare	10	
11	R NEW STAFF AREA 101	20 A	1	R					1080	0	--	1	20 A	Spare	12	
13	R NEW STAFF AREA 101	20 A	1	R	720	0					--	1	20 A	Spare	14	
15	R NEW STAFF AREA 101	20 A	1	R			720	0			--	1	20 A	Spare	16	
17	COPIER	20 A	1	R					1000	0	--	1	20 A	Spare	18	
19	R TELEVISION	20 A	1	R	180	0					--	1	20 A	Spare	20	
21	R NEW ADMIN RECEPTION	20 A	1	R			360	0			--	1	20 A	Spare	22	
23	Spare	20 A	1	--					0	0	--	1	20 A	Spare	24	
TOTAL LOAD / PHASE (VA)					1735 VA		2644 VA		2260 VA							
TOTAL AMPS / PHASE					14.5 A		22.7 A		19.5 A							
LOAD SUMMARY																
LOAD TYPES		CONNECTED LOAD		DEMAND FACTOR		DEMAND		PANEL TOTALS								
LIGHTS		1499 VA		1.25 CONTINUOUS		1874 VA										
RECEPTACLES		5140 VA		Per NEC Table 220.44		5140 VA		TOTAL CONNN. LOAD (VA)								6639
MOTORS				Per NEC 220.50				TOTAL DEMAND LOAD (VA)								7014
HOSPITAL				Per NEC Table 220.11				TOTAL CONNN. CURRENT								18.4
KITCHEN				Per NEC Table 220.56				TOTAL DEMAND CURRENT								19.5
HEAT				Per NEC 220.51												
MISC				1.00												
NOTES:																
1. PROVIDE PANEL WITH HINGED COVER.																

ELECTRICAL SPECIFICATIONS

A. GENERAL:

1. SCOPE OF SERVICES - WORK SHALL INCLUDE THE FURNISHING AND INSTALLING OF A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEMS FOR COMPONENTS INDICATED ON THE DRAWINGS AND THESE SPECIFICATIONS. THIS SHALL INCLUDE ACCESSORIES NECESSARY, WHETHER SPECIFICALLY STATED OR NOT, TO MAKE THE REQUIRED ELECTRICAL SYSTEMS COMPLETE AND OPERATIONAL. THIS WILL INCLUDE EVERY ARTICLE, DEVICE OR ACCESSORY NECESSARY TO FACILITATE EACH SYSTEM FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT SPECIFIED. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE AND ALL EXISTING CONDITIONS PRIOR TO BIDDING.

2. MATERIAL AND WORKMANSHIP - ALL EQUIPMENT AND MATERIALS PROVIDED SHALL BE NEW EXCEPT AS OTHERWISE STATED ON THE DRAWINGS. ALL EQUIPMENT PROVIDED SHALL BE UL LISTED WHEN SUCH STANDARDS EXIST FOR THE TYPE OF EQUIPMENT FURNISHED AND ACCEPTABLE FOR INSTALLATION OF THE LOCAL BUILDING AUTHORITY. ALL WORKMANSHIP SHALL BE BY LICENSED AND EXPERIENCED ELECTRICIANS OR JOURNEYMEN. ALL TOOLS, MACHINERY AND EQUIPMENT REQUIRED OF THE PERFORMANCE OF THE ELECTRICAL WORK SHALL BE FURNISHED BY THIS CONTRACTOR.

3. COORDINATION - THE CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER CONTRACTORS AND SUBCONTRACTORS SO THAT VARIOUS COMPONENTS OF THE ELECTRICAL SYSTEMS WILL BE INSTALLED AT THE PROPER TIME, WILL FIT THE AVAILABLE SPACE, AND WILL ALLOW PROPER SERVICE ACCESS TO ALL EQUIPMENT. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND TO RELEVANT EQUIPMENT DRAWINGS TO DETERMINE THE EXTENT OF CLEAR SPACES.

4. ORDINANCES AND CODES - CONTRACTOR'S PERFORMANCE, WORKMANSHIP AND MATERIALS SHALL COMPLY WITH APPLICABLE NATIONAL FIRE PROTECTION ASSOCIATION CODES, STATE AND LOCAL BUILDING CODES, AND/OR ALL OTHER APPLICABLE CODES AND ORDINANCES. ALL PERMITS, LICENSES AND FEES THAT ARE REQUIRED BY THE GOVERNING AUTHORITIES FOR THE PERFORMANCE OF THE ELECTRICAL WORK SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR. FILLING OUT FORMS FOR APPLICATIONS BY THE ENGINEER WILL BE BILLED HOURLY TO THE CONTRACTOR.

B. COMMON WORK AND BASIC MATERIALS/EQUIPMENT:

1. GUARANTEE - GUARANTEE AGAINST DEFECTIVE WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL PAYMENT. GUARANTEE SHALL INCLUDE MATERIAL/EQUIPMENT TO BE REPLACED AND ALL LABOR REQUIRED.

2. TESTING, CHECK-OUT AND CLEANING - REPLACE ALL BURNED-OUT LAMPS. THE CONTRACTOR SHALL CLEAN ALL MATERIAL AND EQUIPMENT INSTALLED UNDER THE ELECTRICAL CONTRACT. DIRT, DUST, PLASTER, STAINS AND FOREIGN MATTER SHALL BE REMOVED FROM ALL SURFACES. ALL EQUIPMENT SHALL HAVE FINISH TOUCHED UP PRIOR TO INSPECTION. DAMAGED ELECTRICAL EQUIPMENT DURING THE CONSTRUCTION PROCESS SHALL BE REPLACED WITH NEW EQUIPMENT. ALL COSTS ASSOCIATED WITH THE DAMAGED EQUIPMENT SHALL BE ASSUMED BY THE INSTALLING CONTRACTOR.

3. CUTTING AND PATCHING - THIS CONTRACTOR SHALL DO ALL CUTTING OF WALLS, FLOORS, CEILINGS, ETC. AS REQUIRED TO INSTALL WORK UNDER THIS SECTION. CONTRACTOR SHALL PATCH WALLS, FLOORS, ETC. TO MATCH THE ORIGINAL MATERIAL AND CONSTRUCTION. CONTRACTOR SHALL REPAIR ALL FIRE/SMOKE RATED PENETRATIONS TO RETAIN RATING.

4. DEMOLITION - REMOVE ALL EXISTING WIRING, FIXTURES, EXPOSED CONDUITS AND OTHER ELECTRICAL INSTALLATIONS NOT REUSED. ALL CIRCUITS SHALL BE REMOVED BACK TO THE SOURCE PANEL AND UNUSED CIRCUIT BREAKERS SHALL BE SWITCHED TO "OFF" POSITION AND LABELED AS SPARE. CONTRACTOR SHALL UPDATE ALL PANEL DIRECTORIES AFFECTED BY DEMOLITION WORK WITH NEW TYPED PANEL DIRECTORIES.

5. CONDUIT INSTALLATION - ALL WIRING SHALL BE ROUTED IN CONDUIT. CONDUIT SHALL BE INSTALLED CONCEALED WHEREVER POSSIBLE. EXPOSED CONDUIT SHALL BE PAINTED TO MATCH SURROUNDINGS. ALL CONDUIT BOXES SHALL BE ACCESSIBLE TO COMPLY WITH THE NEC. THE MINIMUM CONDUIT SIZE SHALL BE 1/2" UNLESS OTHERWISE NOTED ON THE DRAWINGS. CONDUIT TYPES SHALL BE THE FOLLOWING:

EMT - SHALL BE USED FOR INDOOR, ABOVE GRADE POWER FEEDERS, BRANCH CIRCUITS, AND IN CONCEALED LOCATIONS. SHALL ALSO BE USED FOR FIRE ALARM, TELE/DATA, SECURITY, A/V, NURSE CALL, AND PAGING SYSTEMS. ALL CONDUIT FITTINGS FOR EMT CONDUIT SHALL BE COMPRESSION TYPE FITTINGS. INDENTURE FITTINGS WILL NOT BE ALLOWED.

RMC - SHALL BE USED IN HAZARDOUS LOCATIONS, MECHANICAL AND ELECTRICAL ROOMS WHERE PHYSICAL ABUSE IS PROBABLE. UNDERGROUND CONDUIT ELBOWS AND ELBOWS EXTENDING UP THROUGH THE SLAB. SHALL ALSO BE USED IN OUTDOOR, EXPOSED APPLICATIONS.

PVC - SHALL BE USED IN UNDERGROUND CONDUIT APPLICATIONS.

FMC - SHALL BE USED IN INTERIOR, DRY APPLICATIONS FOR CONNECTIONS TO EQUIPMENT SUBJECT TO MOVEMENT OR VIBRATION. CONDUIT SHALL BE NO GREATER THAN 3/8" IN LENGTH. CONDUIT SHALL BE PROVIDED WITH SEPARATE GROUND CONDUCTOR. CONDUIT MAY NOT BE UTILIZED AS GROUND PATH. FMC WILL BE ALLOWED IN LIEU OF EMT FOR INDOOR, CONCEALED APPLICATIONS ONLY WHERE DEEMED ACCEPTABLE BY THE OWNER AND AHJ. MKEC WILL NOT ACCEPT FMC UNLESS PERMITTED BY BOTH AUTHORITIES. ACCEPTANCE OF THIS INSTALLATION MUST BE SUBMITTED IN WRITING TO THE ENGINEER FROM BOTH THE OWNER AND AHJ VIA THE INSTALLING CONTRACTOR.

LMC - SHALL BE USED IN OUTDOOR APPLICATIONS AS PER FMC ABOVE.

6. UNDERGROUND CONDUIT - SCHEDULE 40 PVC WITH RMC FOR ELBOWS AND ABOVE GRADE. WHERE INTALLED BELOW SLAB, CONDUIT SHALL BE SURROUNDED ON ALL SIDES WITH 2" OF AGGREGATE.

7. WIRE - ALL WIRE SHALL HAVE COPPER CONDUCTORS, WITH U.L. LISTING. SERVICE ENTRANCE CABLE SHALL BE THWN OR XHHW WITH STRANDED CONDUCTORS. ALL FEEDER AND BRANCH CIRCUIT WIRE #8 AWG AND LARGER SHALL BE TYPE THWN OR XHHW, BOTH WITH STRANDED CONDUCTORS. ALL WIRE #10 AND SMALLER AWG SHALL BE TYPE THWN (WET OR DAMP LOCATIONS, OR IN CONDUIT BELOW GRADE OR SLAB) OR THHN (DRY LOCATIONS ONLY AND ABOVE GROUND). BOTH WITH SOLID CONDUCTORS. ALL BRANCH CIRCUIT WIRING SHALL BE NOT SMALLER THAN #12 AWG WIRE.

8. WIRING INSTALLATION - ALL WIRING SHALL BE INSTALLED IN APPROVED RACEWAY AND ENCLOSURES. ALL SPLICES OR TAPS SHALL OCCUR IN APPROVED BOXES AND ENCLOSURES, AND SHALL BE MADE UP WITH APPROVED SOLDERLESS CONNECTORS. FOR #10 CONDUCTORS AND SMALLER THE CONDUCTORS SHALL HAVE INSULATION OF THE PROPER COLOR TO MATCH NEC COLOR CODE SYSTEM. FOR CONDUCTORS OF #8 AND LARGER THE CONTRACTOR MAY USE COLORED PRESSURE SENSITIVE PLASTIC TAPE AT EACH END TO PROPERLY IDENTIFY THE CONDUCTOR VOLTAGE PER THE NEC. ALL BRANCH CIRCUITS SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR INSTALLED IN THE RACEWAY, SIZED IN ACCORDANCE WITH NEC 250-122. COMPLY WITH VOLTAGE DROP SECTION IN THIS SPECIFICATION.

9. HANGERS AND SUPPORTS - SUPPORTS FOR EMT AND RMC SHALL BE AS REQUIRED BY NFPA 70. THE MINIMUM HANGER ROD SIZE SHALL BE 1/4" DIAMETER. TRAPEZE STYLE SUPPORTS FABRICATED TO SUPPORT MULTIPLE RACEWAYS SHALL BE SIZED SUCH THAT CAPACITY CAN BE INCREASED BY 25% IN FUTURE WITHOUT EXCEEDING LOAD LIMITS. COORDINATE MOUNTING ANCHORAGE TYPES WITH STRUCTURAL SUPPORT SYSTEM PRESENT IN BUILDING. THE FOLLOWING ANCHORAGE TYPES WILL BE ALLOWED BASED ON APPROVAL FROM THE STRUCTURAL ENGINEER:

WOOD: FASTEN WITH LAG SCREWS OR THROUGH BOLTS. LAG SCREWS SHALL BE INSTALLED ONLY IN HORIZONTAL POSITION.
NEW CONCRETE: BOLT TO CONCRETE INSERTS.
EXISTING CONCRETE: EXPANSION ANCHOR FASTENERS.
MASONRY: APPROVED TGGLE TYPE BOLTS ON HOLLOW MASONRY UNITS AND EXPANSION ANCHOR FASTENERS ON SOLID MASONRY UNITS.
STEEL: WELDED THREADED STUDS WITH LOCK WASHERS AND NUTS OR BEAM CLAMPS.
LIGHT STEEL: SHEET METAL SCREWS.
EXTERIOR STRUT STANDS SHALL BE GALVANIZED STEEL RATED FOR USE IN AN OUTDOOR ENVIRONMENT. ALL STRUT STANDS SHALL BE PAINTED GRAY AFTER FABRICATION TO PROVIDE ADDITIONAL WEATHER RESISTANCE.

10. LOW VOLTAGE CABLING SUPPORT - ALL LOW VOLTAGE CABLING NO SPECIFIED TO BE ROUTED IN CONDUIT, SHALL BE SUPPORTED BY J-HOOKS THROUGHOUT THE BUILDING UNLESS INDICATED TO BE SUPPORTED BY A CABLE TRAY SYSTEM ON THE DRAWINGS. J-HOOKS SHALL BE SPACED IN ACCORDANCE WITH APPLICABLE STANDARDS TO PROPERLY SUPPORT THE CABLING SYSTEM. INSTALLATION SHALL BE NEAT AND ORDERLY THROUGHOUT. COORDINATE LOCATION OF CABLING SUPPORTS WITH OTHER TRADES.

11. DEVICES - DEVICES SHALL BE SPECIFICATION GRADE. COMMERCIAL OR RESIDENTIAL GRADE DEVICES ARE NOT ACCEPTABLE. COORDINATE DEVICE AND COVERPLATE COLOR WITH THE ARCHITECT AND ENGINEER PRIOR TO SUBMITTAL OF EQUIPMENT. DEVICE PLATES SHALL BE NYLON. ISOLATED GROUND DEVICES SHALL BE ORANGE AND COVERPLATES SHALL BE ENGRAVED "ISOLATED". EMERGENCY DEVICES AND COVERPLATES SHALL BE RED (NOTE THIS IS NOT GENERATOR POWER, BUT CODE REQUIRED EMERGENCY LOADS). ACCEPTABLE MANUFACTURERES SHALL BE ARROW HART, BRYANT, HUBBELL, LEVITON, AND PASS & SEYMOUR.

CONVENIENCE RECEPTACLES SHALL BE NEMA 5-20R TYPE. GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES SHALL BE NEMA 5-20R TYPE WITH FAULT SENSOR DESIGNED TO DETECT 4-6 mA LEAKAGE IN 25 MILLISECONDS OR LESS. HOSPITAL GRADE RECEPTACLE SHALL BE NEMA 5-20R TYPE FOR USE IN LOCATIONS READILY AVAILABLE TO THE PATIENT VICINITY. RECEPTACLES SHALL HAVE GREEN DOT ON FACE OF DEVICE TO IDENTIFY AS HOSPITAL GRADE. RECEPTACLES INSTALLED OUTDOORS SHALL BE NEMA 5-20R WEATHER-RESISTANT, GROUND FAULT TYPE DEVICES WITH CLEAR PLASTIC IMPACT RESISTANT WEATHERPROOF COVER.

SWITCHES SHALL BE 20A, SINGLE POLE, DOUBLE THROW. 3-WAY AND 4-WAY SWITCHES SHALL BE DOUBLE POLE. DIMMERS SHALL BE COORDINATED WITH THE LAMP TYPE IN WHICH THEY SERVE. COORDINATE REQUIRED DIMMER TYPE WITH LED DRIVERS AS REQUIRED TO PROVIDE A FUNCTIONAL SYSTEM.

12. BOXES - ALL BOXES SHALL BE METALLIC TYPE UNLESS OTHERWISE NOTED ON THE DRAWINGS.

INTERIOR BOXES SHALL BE GALVANIZED SHEET STEEL. BOXES FOR SWITCHES AND RECEPTACLES SHALL BE 4" SQUARE, 2-1/8" DEEP. BOXES SHALL BE INSTALLED SUCH THAT DEVICE COVERS ARE TIGHT AND PLUMB WITH FINISHED SURFACE. EXTERIOR BOXES SHALL BE CORROSION RESISTANT, CAST-METAL, WEATHERPROOF OUTLET WIRING BOXES. DIVIDERS SHALL BE PROVIDED IN ALL BOXES WITH WIRING OF DIFFERENT VOLTAGE TO SEPARATE VOLTAGES. JUNCTION BOXES AND PULL BOXES SHALL BE INSTALLED WHERE REQUIRED FOR CONDUCTOR PULLING AND BEND RADIUS REQUIREMENTS PER THE NEC. PAINT EXTERIOR OF BOXES AS FOLLOWS: EMERGENCY-ORANGE AND FIRE ALARM-RED.

13. VOLTAGE DROP - ALL BRANCH CIRCUITS SUPPLYING EQUIPMENT, LIGHTING, OR DEVICES SHALL BE SIZED NOT TO EXCEED 3% VOLTAGE DROP, AND NOT EXCEED 5% VOLTAGE DROP FROM SOURCE (E.G. TRANSFORMER, SERVICE, ETC) TO LOAD. DERATE CONDUCTORS PER NEC WHEN ROUTED IN RACEWAY CONTAINING MORE THAN THREE CURRENT CARRYING CONDUCTORS. PROVIDE BUCK-BOOST TRANSFORMERS MEETING THE REQUIREMENTS OF THE TRANSFORMER SECTION WHEN VOLTAGE DROP EXCEEDS 3% FROM OVERCURRENT DEVICE TO END DEVICE.

14. EQUIPMENT AND DEVICE GROUNDING - ALL CONDUCTORS, CONDUITS, MOTOR FRAMES, ETC. WHICH REQUIRE GROUNDING SHALL BE PERMANENTLY AND EFFECTIVELY GROUNDED BY THIS CONTRACTOR IN A THOROUGH AND EFFICIENT MANNER CONFORMING IN ALL PARTICULARS TO THE NATIONAL ELECTRICAL CODE. ALL CIRCUITS MUST BE PROVIDED WITH A SEPARATE GROUND CONDUCTOR. CONTRACTOR SHALL NOT UTILIZE THE RACEWAY AS A GROUND PATH UNDER ANY CIRCUMSTANCE.

CONTRACTOR SHALL ROUTE A DEDICATED #6 BARE COPPER WIRE FROM THE SERVICE ENTRANCE GROUND BUS TO THE TELEPHONE TERMINAL BOARD (TTB) IF A TTB IS INSTALLED ON THE PROJECT.

15. LABELING - ALL DEVICES SHALL BE LABELED THAT ARE MODIFIED IN ANY WAY BY THIS PROJECT.

- a. ALL PANELBOARDS (NEW OR THAT HAVE CIRCUITS MODIFIED) SHALL HAVE INSTALLED A NEW TYPED CIRCUIT DIERECTORY UPDATED WITH ALL AVAILABLE INFORMATION.
- b. ALL NEW OR AFFECTED DISCONNECTS, STARTERS, TRANSFORMERS, AND PANELS SHALL HAVE A PHENOLIC, WHITE TEXT ON BLACK, MINIMUM 1/2 INCH HIGH TEXT LABELING WITH THE DEVICES NAME, VOLTAGE AND WIRING SYSTEM (EXAMPLE: "PANEL A, 120/208V, 3 PHASE, 4 WIRE") AND OTHER INFORMATION PER THE OWNER.
- c. ALL NEW, RELOCATED, OR REWIRED RECEPTACLES, SWITCHES AND OTHER DEVICES INCLUDING THOSE ABOVE SHALL BE LABELED WITH THE SOURCE OF POWER. THIS LABEL SHALL BE ON THE DEVICE COVER PLATE AND SHALL HAVE BLACK ON WHITE HELVETICA MEDIUM FONT LETTERING 1/4 INCH HIGH, DESIGNATING PANELBOARD AND CIRCUIT NUMBER SEPARATED BY COLON. THE SAME TYPE LABEL SHALL ALSO BE INSTALLED ON THE DEVICE BEHIND THE COVERPLATE.

C. DISTRIBUTION EQUIPMENT:

1. MANUFACTURERS - ALL COMPONENTS SHALL BE BY ONE OF THE FOLLOWING UNLESS OTHERWISE NOTED: EATON CUTLER HAMMER, GENERAL ELECTRIC, SIEMENS, OR SQUARE D.

2. BUILDING SERVICE MAIN CIRCUIT BREAKER - THE BUILDING MAIN CIRCUIT BREAKER WHETHER LOCATED IN A PANEL, DISTRIBUTION PANEL, OR SWITCHBOARD SHALL BE A GROUND FAULT TYPE CIRCUIT BREAKER IF THE SERVICE IS RATED GREATER THAN 240V AND IS 1000A AND GREATER.

3. GROUND BUS - ALL PANELS, DISTRIBUTION PANELS, AND SWITCHBOARDS SHALL BE PROVIDED WITH A COPPER GROUND BUS.

4. SERIES RATING - SERIES RATING OF CIRCUIT BREAKERS IN NOT ALLOWED UNLESS SPECIFICALLY NOTED ON THE CONTRACT DRAWINGS.

5. PANELBOARDS - FURNISH AND INSTALL PANELBOARDS AS SCHEDULED AND NOTED ON THE DRAWINGS. THE PANELBOARDS SHALL BE COMPLETE WITH THERMAL MAGNETIC PLASTIC CASE CIRCUIT BREAKERS OF THE BOLT-ON TYPE ASSEMBLED IN A FINISHED CABINET. ALL 2 AND 3 POLE BREAKERS MUST BE COMMON TRIP. EACH PANEL SHALL CONTAIN A TYPEWRITTEN OR COMPUTER PRINTED CIRCUIT DIRECTORY. ALL PANELBOARDS SHALL BE FURNISHED WITH A HINGED FRONT COVER. PANELBOARDS SHALL BE INSTALLED WITH TOP AT 6'-6" A.F.F. UNLESS OTHERWISE NOTED SUCH THAT BREAKER ACCESSIBILITY LOCATIONS COMPLY WITH NFPA 70.

PANELBOARDS 400A AND SMALLER SHALL BE LIGHTING AND APPLIANCE TYPE PANELS. PANELS 600A AND LARGER SHALL BE DISTRIBUTION TYPE. PANELBOARDS SHALL BE DEAD FRONT TYPE AND BUS BARS SHALL BE TIN PLATED ALUMINUM. IF 10% SPACE IS NOT INDICATED ON THE DRAWINGS, PROVISION A MINIMUM OF 10% SPARE CAPACITY (SPACE) IN THE PANELBOARD FOR ADDITIONAL DEVICES. THE MINIMUM SHORT CIRCUIT RATING OF ANY DEVICE INSTALLED IN A PANEL SHALL BE 10,000 AIC OPERATING AT 120/208V.

6. LOW VOLTAGE TRANSFORMERS (600V AND LESS) - TRANSFORMERS SHALL BE RATED FOR 150 DEG C INSULATION CLASS. TRANSFORMER SHALL BE ALUMINUM OR COPPER WOUND TYPE. TRANSFORMERS LOCATED INDOORS IN DRY LOCATIONS SHALL BE PROVIDED WITH VENTILATED, NEMA TYPE 2 RATED ENCLOSURES. TRANSFORMERS SHALL BE GROUNDED AS SEPERATELY DERIVED SYSTEMS PER NFPA 70.

7. SAFETY SWITCHES - FURNISH AND INSTALL FUSED OR NON-FUSED (AS REQUIRED) HEAVY DUTY SAFETY SWITCHES WHERE NOT FURNISHED WITH THE EQUIPMENT, AND AT ALL OTHER POINTS REQUIRED BY CODE. CONSTRUCTION SHALL BE OF A NEMA DESIGN SUITABLE FOR THE ENVIRONMENT INSTALLED. ALL FUSES SHALL BE BUSSMAN, LITTELFUSE OR FERRAZ-SHAWMUT, SIZE AND TYPE AS REQUIRED OR INDICATED.

D. LIGHTING:

1. GENERAL - THE LOCATIONS, NUMBERS, SIZES AND TYPES OF LIGHTING FIXTURES SHALL BE AS SHOWN ON THE CONTRACT DOCUMENTS. ALL LIGHTING FIXTURES FURNISHED UNDER THIS CONTRACT TO HAVE UL LABELS ATTACHED TO EACH FIXTURE OR AN INTEGRAL PART OF THE DEVICES FOR 120V AND 277V SOLID-STATE EQUIPMENT. FOR DEVICES WITHOUT INTEGRAL LINE VOLTAGE SURGE PROTECTION, FIELD MOUNTING SURGE PROTECTION SHALL COMPLY WITH IEEE C62.41, WITH UL 1449. METAL PARTS SHALL BE FREE FROM BURRS, SHARP CORNERS AND EDGES. DOORS, FRAMES AND OTHER INTERNAL ACCESSES SHALL BE SMOOTH OPERATING, FREE FROM LIGHT LEAKAGE UNDER OPERATING CONDITIONS, AND ARRANGED TO PERMIT RELAMPING WITHOUT USE OF TOOLS. ARRANGE DOORS, FRAMES, LENSES, DIFFUSERS AND OTHER PIECES TO PREVENT ACCIDENTAL FALLING DURING RELAMPING AND WHEN SECURED IN OPERATING POSITION. LENSES, DIFFUSERS, COVERS AND GLOBES SHALL BE 100 PERCENT VIRGIN ACRYLIC PLASTIC OR ANNEALED CRYSTAL GLASS, UNLESS OTHERWISE INDICATED. PLASTIC SHALL BE HIGH RESISTANCE TO YELLOWING AND OTHER CHANGES DUE TO AGING, EXPOSURE TO HEAT AND ULTRAVIOLET RADIATION. CLEAN ALL LIGHT FIXTURES AFTER INSTALLATION AND PRIOR TO OWNER ACCEPTANCE. TEST EACH FIXTURE AND REPLACE ALL MALFUNCTIONING LAMPS AND BALLASTS.

2. LED FIXTURES AND DRIVERS - MANUFACTURERS SHALL BE AS SHOWN ON THE CONTRACT DRAWINGS. LED DRIVER AND HEAT SINK SHALL BE MATCHED TO PROVIDE 50,000 HOURS OF LAMP LIFE.

BATTERY INVERTER DRIVERS SHALL BE BODINE, POWER SENTRY, OR IOTA. BATTERY BALLASTS SHALL PROVIDE 90 MINUTES OF OUTPUT AS INDICATED ON THE DRAWINGS. INSTALL NON-INTEGRAL DRIVERS IN ACCESSIBLE LOCATIONS. PROVIDE COLE WEATHER TYPE DRIVERS IF EXPOSED TO EXTERIOR TEMPERATURES.

F. ADDRESSABLE FIRE ALARM SYSTEM:

1. GENERAL - THE EXISTING FIRE ALARM SYSTEM IS A SIMPLEX BRANDED SYSTEM WITH A 4010 FIRE ALARM CONTROL PANEL. PROVIDE COMPONENTS COMPATIBLE WITH EXISTING SYSTEM.

2. SUBMITTALS - SUBMITTALS SHALL BE APPROVED BY THE AHJ PRIOR TO SUBMITTING THEM TO THE ARCHITECT/ENGINEER. IF THE AHJ REQUIRES SHOP DRAWING SUBMITTALS BE SEALED, THEN THE CONTRACTOR SHALL HIRE A CONSULTANT TO MEET THAT REQUIREMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR FOR ALL THAT IS REQUIRED TO GAIN APPROVAL FROM THE AHJ ON THE FIRE ALARM SUBMITTAL.

SHOP DRAWINGS SHALL BE PREPARED BY PERSONS WHO HAVE BEEN TRAINED AND CERTIFIED BY THE MANUFACTURER AND A NICET CERTIFIED FIRE ALARM TECHNICIAN AS REQUIRED BY THE AHJ. SHOP DRAWINGS SHALL INCLUDE PRODUCT DATA AND SCALED PLANS.

THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TOTAL COVERAGE OF THE BUILDING TO MEET REQUIRED dB LEVELS IN ALL OCCUPIED SPACES. THIS INCLUDES PROVISIONING ADDITIONAL HORN/STROBE DEVICES BEYOND WHAT IS INDICATED ON THE DRAWINGS TO MEET THE CODE MINIMUM AND AHJ REQUIREMENTS.

3. EXISTING FACILITY CONDITIONS - IF CONNECTING TO AN EXISTING FIRE ALARM SYSTEM IN AN EXISTING BUILDING THE FIRE ALARM SERVICES TO THE EXISTING BUILDING SHALL NOT BE INTERRUPTED DURING CONSTRUCTION UNLESS PERMITTED BY THE OWNERS WRITTEN PERMISSION. TEMPORARY GUARD SERVICE SHALL BE PROVIDED DURING ANY PERIOD OF DOWN TIME.

4. APPROVED MANUFACTURERS

a. SIMPLEX GRINNELL, A JCI. COMPANY

5. FIRE ALARM CONTROL PANEL - THE FIRE ALARM CONTROL PANEL IS EXISTING. VERIFY THE FOLLOWING:
A. TWENTY FOUR (24) HOUR BATTERY BACKUP

6. NOTIFICATION APPLIANCES - APPLIANCES SHALL BE CONNECTED TO THE ADDRESSABLE NOTIFICATION APPLIANCE CIRCUIT. ALL CHIMES AND STROBE UNITS SHALL BE ADA COMPLIANT. VISIBLE NOTIFICATION APPLIANCES SHALL BE FIELD SELECTABLE FOR 15/30/75/110 CD. FLASHING SHALL BE SYNCHRONIZED WITH OTHER UNITS. PROVIDE HORNS WITH DB LEVEL OF 81 DB MINIMUM.

7. INSTALLATION - NEW COMPONENTS OF THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN CONDUIT THROUGHOUT THE FACILITY.

G. CONSTRUCTION:

1. SUBMITTALS - SUBMIT FOR REVIEW MANUFACTURERS CUT SHEETS AND/OR SHOP DRAWINGS OF ALL ITEMS IN THIS SPECIFICATION OTHER THAN WIRE AND CONDUIT. ALSO SUBMIT ITEMS REQUIRING COORDINATION BETWEEN CONTRACTORS. BEFORE SENDING SUBMITTALS, THE CONTRACTOR SHALL VERIFY THAT ALL EQUIPMENT SUBMITTED IS MUTUALLY COMPATIBLE AND SUITABLE FOR THE INTENDED USE, AND SHALL FIT THE AVAILABLE SPACE AND ALLOW AMPLE ROOM FOR MAINTENANCE. THE ENGINEER'S REVIEW AND COMMENT ON SUCH SUBMITTALS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS IN DIMENSIONS, DETAILS, SIZE OF MEMBERS, OR QUANTITIES; OR OMISSIONS OF COMPONENTS OR FITTINGS; OR FOR COORDINATING ITEMS WITH ACTUAL PROJECT CONDITIONS.

H. SUBSTITUTIONS:

1. MATERIAL ALTERNATES SHALL BE SUBMITTED IN COMPLETE DETAIL TO THE ENGINEER NO LATER THAN 10 CALENDAR DAYS PRIOR TO BID DATE. DECISION ON ACCEPTANCE OF A SUBSTITUTION IS SOLELY UP TO THE ENGINEER.



WDM Architects P.A.
105 North Washington
Wichita, KS 67202-2815
T 316.262.4700
F 316.262.0002
wdmarchitects.com



CHILD START ON SECOND STREET
A REMODEL
2nd St & Mathewson

PRINTS ISSUED
11-02-2023 FOR BIDDING
01-24-2024 FOR PERMIT

REVS.		
NO.	DATE	DESC.

WDM No. drawn: JAC
23016 checked: GAKH
ELECTRICAL SPECIFICATIONS



Wichita, KS · 316.684.9600
PROJECT: 2301060536

E-601