FIRE SUPPRESSION ABBREVIATIONS

(NOTE: ALL ABBREVIATIONS SHOWN MAY
NOT BE REQUIRED FOR THIS PROJECT)

*** ABBREVIATIONS ***

ACU	AIR COMPRESSOR UNIT
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
BPD	BACKFLOW PREVENTION DEVICE
ECM	ELECTRICALLY COMMUTATED MOTOR
ETR	EXISTING TO REMAIN
FHV	FIRE HOSE VALVE
FLA	FULL LOAD AMPS
FP	FIRE PUMP
FWE	FURNISHED WITH EQUIPMENT
IP	INTERNET PROTOCOL
JP	JOCKEY PUMP
MCA	MINIMUM CIRCUIT AMPACITY
MFS	MAX FUSE SIZE
MOP/MOPD	MAX OVER-CURRENT PROTECTIVE DEVICE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
PH	PHASE
POE	POWER OVER ETHERNET
RLA	RUNNING LOAD AMPS
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS

FIRE SUPPRESSION SYMBOLS

NOTES:
1. ALL SYMBOLS SHOWN MAY NOT BE REQUIRED FOR THIS PROJECT.
2. FOR REFLECTED CEILING SYMBOLS NOT SHOWN BELOW, REFER TO OTHER TRADES AS NECESSARY.

*** FIRE SUPPRESSION SYSTEM ***

SPR — SPRINKLER PIPE
WSP — WET STANDPIPE
CSS — COMBINED STANDPIPE / SPRINKLER RISER
DSP — DRY STANDPIPE
DRY — DRY PIPE
CA — CLEAN AGENT PIPE
SPRINKLER HEAD
SIDEWALL SPRINKLER HEAD
PRESSURE GAUGE
FS = FLOW SWITCH
TS = TAMPER SWITCH
FIRE DEPARTMENT CONNECTION (FDC)
TEST HEADER
BACKFLOW PREVENTER
SURFACE MOUNTED VALVE CABINET
RECESSED VALVE CABINET
ISOLATION VALVE
FHV — FIRE HOSE VALVE
ZCV — ZONE CONTROL VALVE
CONNECTION - NEW TO EXISTING

*** REFERENCE ***

ELECTRICAL PANEL SHOWN FOR COORDINATION

*** EQUIPMENT ***

CLEAR — EQUIPMENT — CLEAR
EQUIPMENT SERVICE CLEARANCE

GENERAL FIRE SUPPRESSION DEMOLITION NOTES:

1. REFER TO DEMOLITION KEY FOR ITEMS TO BE REMOVED VERSUS ITEMS TO REMAIN.
2. SHUT DOWN OF EXISTING FIRE SUPPRESSION SYSTEMS TO BE REQUESTED AND COORDINATED THROUGH OWNER'S REPRESENTATIVE IN ACCORDANCE WITH DIVISION 00 AND 01 SPECIFICATIONS.
3. NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO CREATING ANY SMOKE, HEAT, MOISTURE, VAPORS OR DUST AROUND ANY FIRE ALARM EQUIPMENT.
4. SCHEDULE FOR ALL WORK IMPACTING ADJACENT OCCUPIED AREAS SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE. WORK TO BE PERFORMED IN A MANNER THAT MINIMIZES THE INTERRUPTIONS AND INCONVENIENCE TO THE OWNER'S OCCUPANCY OF THESE SPACES.
5. COORDINATE SCHEDULE FOR RELOCATION OF ALL PIPING WITH THE OWNER'S REPRESENTATIVE, DOWNTIME FOR ALL SYSTEMS TO BE MINIMIZED.
6. WHERE PIPING THROUGH A FLOOR OR A WALL IS REMOVED, PATCH ALL REMAINING HOLES TO MATCH EXISTING AND TO PROVIDE THE REQUIRED FIRE RATING.
7. WHERE EXISTING PIPING TO BE REMOVED IS ROUTED IN AN EXISTING WALL OR FLOOR SLAB TO REMAIN, PIPING TO BE CAPPED AND ABANDONED IN WALL AND/OR SLAB.
8. FOR ALL WORK REQUIRED ABOVE EXISTING CEILINGS TO REMAIN, (EITHER WITHIN OR OUTSIDE THE PROJECT AREA) CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF ALL CEILING TILE AS REQUIRED TO ACCOMPLISH THE WORK. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR TYPES AND EXTENT OF BOTH EXISTING AND NEW CEILINGS THROUGHOUT PROJECT.
9. UNLESS SPECIFICALLY NOTED OTHERWISE, WHERE EQUIPMENT IS INDICATED TO BE REMOVED, DEMOLITION WORK SHALL INCLUDE REMOVAL OF ASSOCIATED CONCRETE EQUIPMENT PAD AND/OR SUPPORT STEEL AND HANGERS.
10. ALL ASBESTOS TO BE ABATED UNDER A SEPARATE CONTRACT.

FIRE SUPPRESSION DEMOLITION KEYED NOTES

FXD-1	REMOVE EXISTING SPRINKLER HEADS AND BRANCH PIPING IN PREPARATION FOR INSTALLING NEW SPRINKLER HEADS AND BRANCH PIPING TO ACCOMMODATE REVISED FLOOR PLAN AND CEILINGS IN THIS AREA.

GENERAL FIRE SUPPRESSION NOTES:

1. SHUT DOWN OF EXISTING FIRE SUPPRESSION SYSTEMS TO BE REQUESTED AND COORDINATED THROUGH OWNER'S REPRESENTATIVEIN ACCORDANCE WITH DIVISION 00 AND 01 SPECIFICATIONS.
2. PROVIDE NEW FIRE SUPPRESSION SYSTEM FOR AREAS INDICATED ON PLANS IN ACCORDANCE WITH NFPA 13.
   a. COORDINATE FINAL SPRINKLER HEAD PLACEMENT WITH CEILING, EXPOSED STRUCTURE, LIGHTS, DUCTWORK, AND PIPING. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN. UNLESS NOTED OTHERWISE, ALL SPRINKLER HEADS ARE TO BE CENTERED IN CEILING TILES.
   b. PROVIDE SPRINKLER INSPECTOR'S TEST STATIONS AS REQUIRED BY CODE. FIELD COORDINATE LOCATIONS WITH GENERAL CONTRACTOR AND ARCHITECT. DRAIN TO NEAREST JANITOR'S SINK OR FLOOR DRAIN.
3. PROVIDE NEW WET SPRINKLER SYSTEM FOR AREAS WITH SUGGESTED SPRINKLER HEAD LOCATIONS AS SHOWN. SPRINKLER SYSTEM TO BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13. COORDINATE EXACT ROUTING OF PIPING AND QUANTITY AND PLACEMENT OF SPRINKLER HEADS WITH REFLECTED CEILING PLAN. SPRINKLER HEADS TO BE QUICK RESPONSE HEADS, TEMPERATURE RATING OF 155 DEGREES F UNLESS NOTED OTHERWISE. IN AREAS WITH SUSPENDED CEILINGS, ALL SPRINKLER HEADS ARE TO BE CONCEALED PENDENT HEADS. IN AREAS WITH NO CEILINGS, PROVIDE UPRIGHT HEADS. ALL OFFICE, CLASSROOM AND CIRCULATION AREAS ARE TO BE CLASSIFIED AS LIGHT HAZARD OCCUPANCY EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. ALL REMAINING AREAS, INCLUDING ALL LABORATORY, MECHANICAL ROOMS AND STORAGE AREAS ARE TO BE CLASSIFIED AS ORDINARY HAZARD, GROUP 2.
4. PROVIDE COVERAGE ON BOTH SIDES OF RESTROOM PARTITIONS WITHIN 18" OF CEILING AS REQUIRED BY NFPA 13. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON PARTITIONS.
5. DRAWINGS ARE IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK, AND TO INDICATE THE GENERAL LOCATIONS OF EQUIPMENT AND PIPING. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT THEIR OWN WORK ACCORDING TO THE FOLLOWING GUIDELINES:
   a. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS FOR EQUIPMENT AND ROUGH INS AND THE EXACT ROUTING OF PIPING PRIOR TO CONSTRUCTION SO AS TO BEST FIT THE LAYOUT OF THE WORK. COORDINATE FINAL LAYOUT WITH ALL TRADES.
   b. WHERE OFFSETS IN PIPING ARE REQUIRED TO COORDINATE THE WORK OF OTHER TRADES, WITH STRUCTURE, PIPING, CONDUIT, DUCTWORK ETC., OR TO MAINTAIN REQUIRED CEILING HEIGHTS, THEY SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
   c. UNLESS OTHERWISE NOTED, ALL PIPING TO BE ROUTED CONCEALED IN WALLS OR CHASES OR ABOVE SUSPENDED CEILING. WATER PIPING SHALL NOT BE ROUTED IN EXTERIOR WALLS. COORDINATE LAYOUT WITH EXISTING CONDITIONS AND ALL OTHER TRADES. ROUTE ALL PIPING AS HIGH AS POSSIBLE AND ALONG WALLS TO MAXIMIZE SPACE AVAILABLE FOR OTHER TRADES.
   d. COORDINATE ROUTING OF PIPING TO MAINTAIN ACCESS TO FILTERS, MOTORS, ELECTRICAL EQUIPMENT, AND CONTROLS. IN NO CASE, SHALL PIPING PASS DIRECTLY OVER ELECTRICAL PANELS OR DISCONNECTS OR RESTRICT ACCESS TO ANY ELECTRICAL EQUIPMENT INCLUDING JUNCTION BOXES.
6. FOR CONTRACTOR'S INFORMATION, ORIGINAL FIRE SUPPRESSION SYSTEM SHOP DRAWINGS INDICATE 60 PSI STATIC PRESSURE AND 50 PSI RESIDUAL PRESSURE AT 1087 GPM.
7. EXPOSED PIPING SHALL NOT HAVE ANY VISIBLE FIELD MARKINGS AND PIPE SURFACES SHALL BE CLEANED AFTER INSTALLATION.
8. ALL ELEMENTS OF THE CONSTRUCTION SHALL BE PERFORMED BY TRADES PEOPLE SKILLED IN THE PARTICULAR CRAFT INVOLVED, AND REGULARLY EMPLOYED IN THAT PARTICULAR CRAFT. ALL WORK SHALL BE PERFORMED IN A NEAT, PROFESSIONAL MANNER IN KEEPING WITH THE HIGHEST STANDARDS OF THE CRAFT.
9. COORDINATE LOCATIONS AND SIZES OF OPENINGS IN STRUCTURE WITH GENERAL CONTRACTOR. WHEN ADDITIONAL CUTTING AND PATCHING IS REQUIRED DUE TO FIRE SUPPRESSION CONTRACTOR'S FAILURE TO COORDINATE THIS WORK, IT SHALL BE THE FIRE SUPPRESSION CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE ADDITIONAL CUTTING AND PATCHING.
10. SEAL AND/OR FIRE STOP ALL PENETRATIONS. REFER TO DIVISION 07 SPECIFICATIONS FOR FIRESTOPPING REQUIREMENTS.
11. PROVIDE ALL REQUIRED SUPPORT STEEL FOR PIPING AND EQUIPMENT.
12. WHERE THERE IS NO CEILING INDICATED NEW PIPING WILL BE ROUTED EXPOSED WITHIN ROOM. ALL EXPOSED PIPING (INCLUDING HANGERS) SHALL BE PAINTED TO MATCH ADJACENT WALL/CEILING COLOR.
13. THE SPACE ABOVE CEILINGS IN ALL AREAS IS LIMITED AND COORDINATION OF WORK IS MANDATORY.
14. PROVIDE WIRE GUARDS ON ALL EXPOSED SPRINKLER HEADS IN ELECTRICAL ROOMS AND TELECOM ROOMS.

FIRE SUPPRESSION KEYED NOTES

FX-1	PROVIDE NEW SPRINKLER HEADS AND ASSOCIATED BRANCH PIPING TO ACCOMMODATE REVISED FLOOR PLAN AND CEILINGS IN THIS AREA.

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

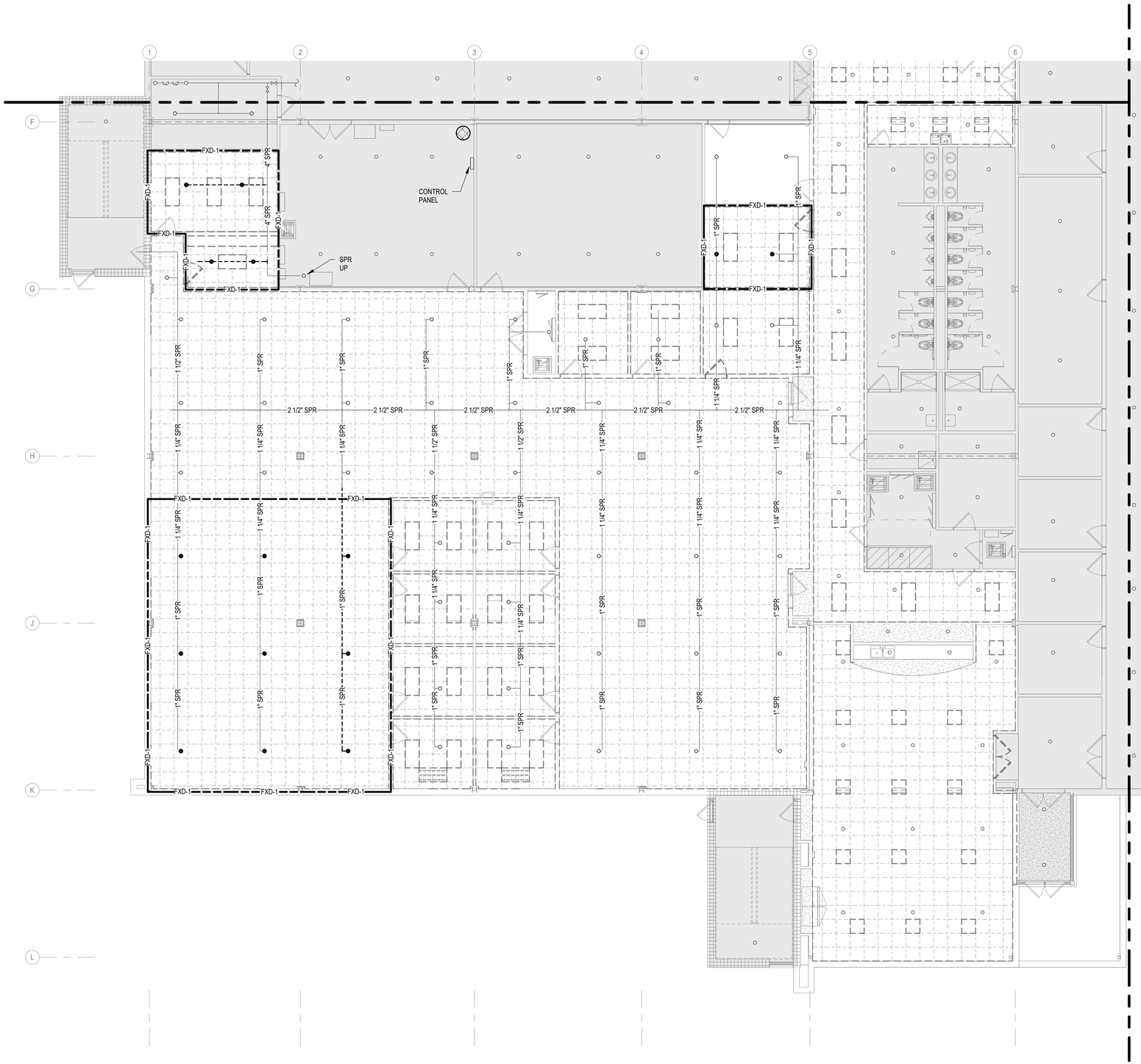
Fire Suppression Notes and Symbols

DATE
07.23.2026

DRAWING NUMBER
FX000

BID SET

PROJECT NUMBER
25030



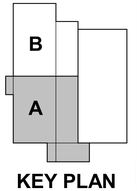
1 FXD111.A FIRE SUPPRESSION DEMOLITION PLAN - LEVEL 1 - Area A (Southwest)
1/8" = 1'-0"

KEYED NOTES

FXD-1	REMOVE EXISTING SPRINKLER HEADS AND BRANCH PIPING IN PREPARATION FOR INSTALLING NEW SPRINKLER HEADS AND BRANCH PIPING TO ACCOMMODATE REVISED FLOOR PLAN AND CEILINGS IN THIS AREA.

DEMOLITION KEY
- TO REMAIN
- TO BE REMOVED / REVISED

SPRINKLER HEAD DEMO KEY PLAN
- TO BE REMOVED/ REVISED
- EXISTING TO REMAIN



KEY PLAN

N

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

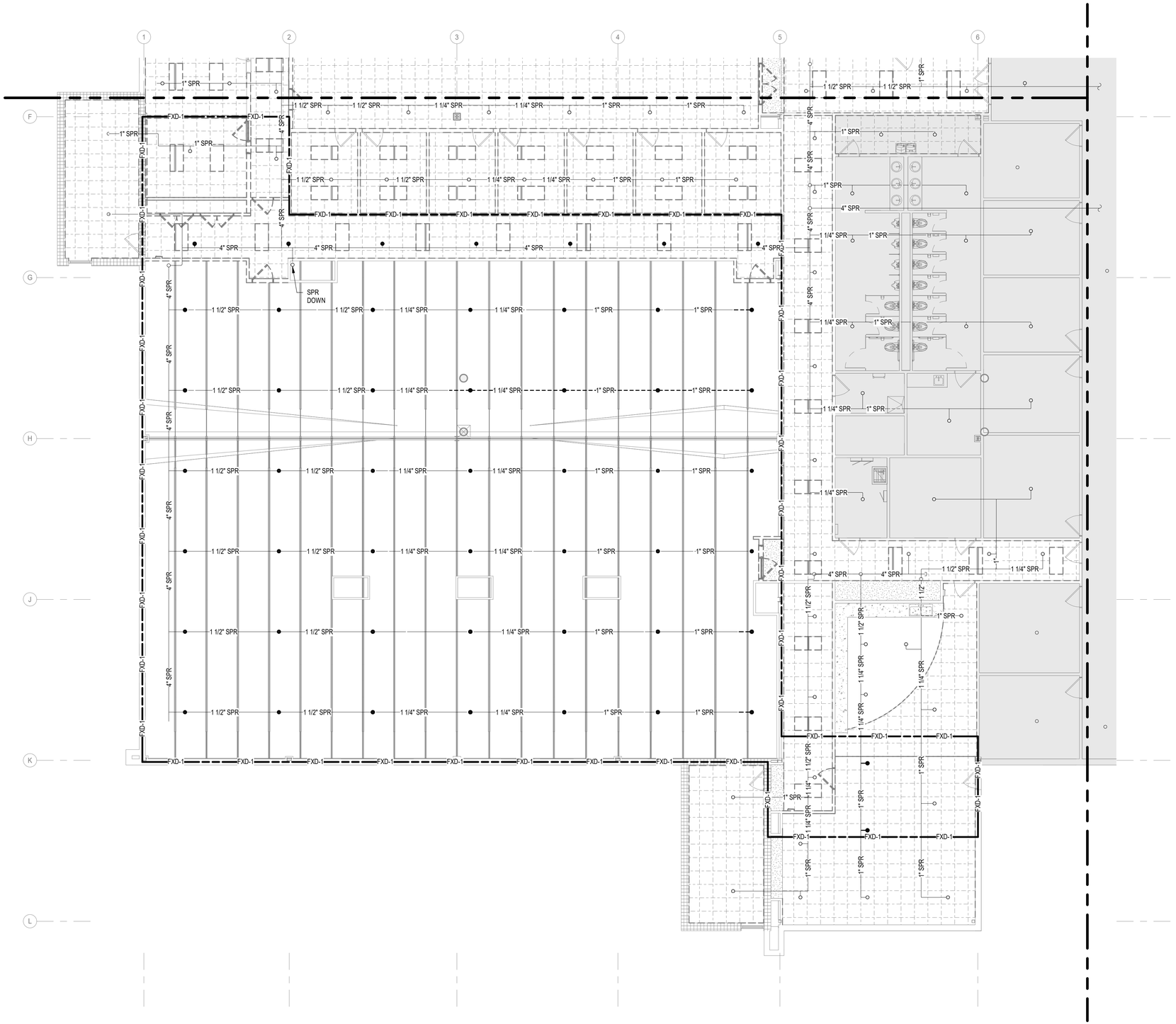
All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Fire Suppression Plan - Demolition Level 1 - Area A

DATE
07.23.2026
DRAWING NUMBER
FXD111.A
BID SET
PROJECT NUMBER
25030



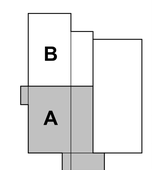
1 FIRE SUPPRESSION DEMOLITION PLAN - LEVEL 2 - Area A (Southwest)
FXD112.A 1/8" = 1'-0"

KEYED NOTES

FXD-1	REMOVE EXISTING SPRINKLER HEADS AND BRANCH PIPING IN PREPARATION FOR INSTALLING NEW SPRINKLER HEADS AND BRANCH PIPING TO ACCOMMODATE REVISED FLOOR PLAN AND CEILINGS IN THIS AREA.

DEMOLITION KEY
- TO REMAIN
- TO BE REMOVED / REVISED

SPRINKLER HEAD DEMO KEY PLAN
- TO BE REMOVED/ REVISED
- EXISTING TO REMAIN



KEY PLAN

N

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

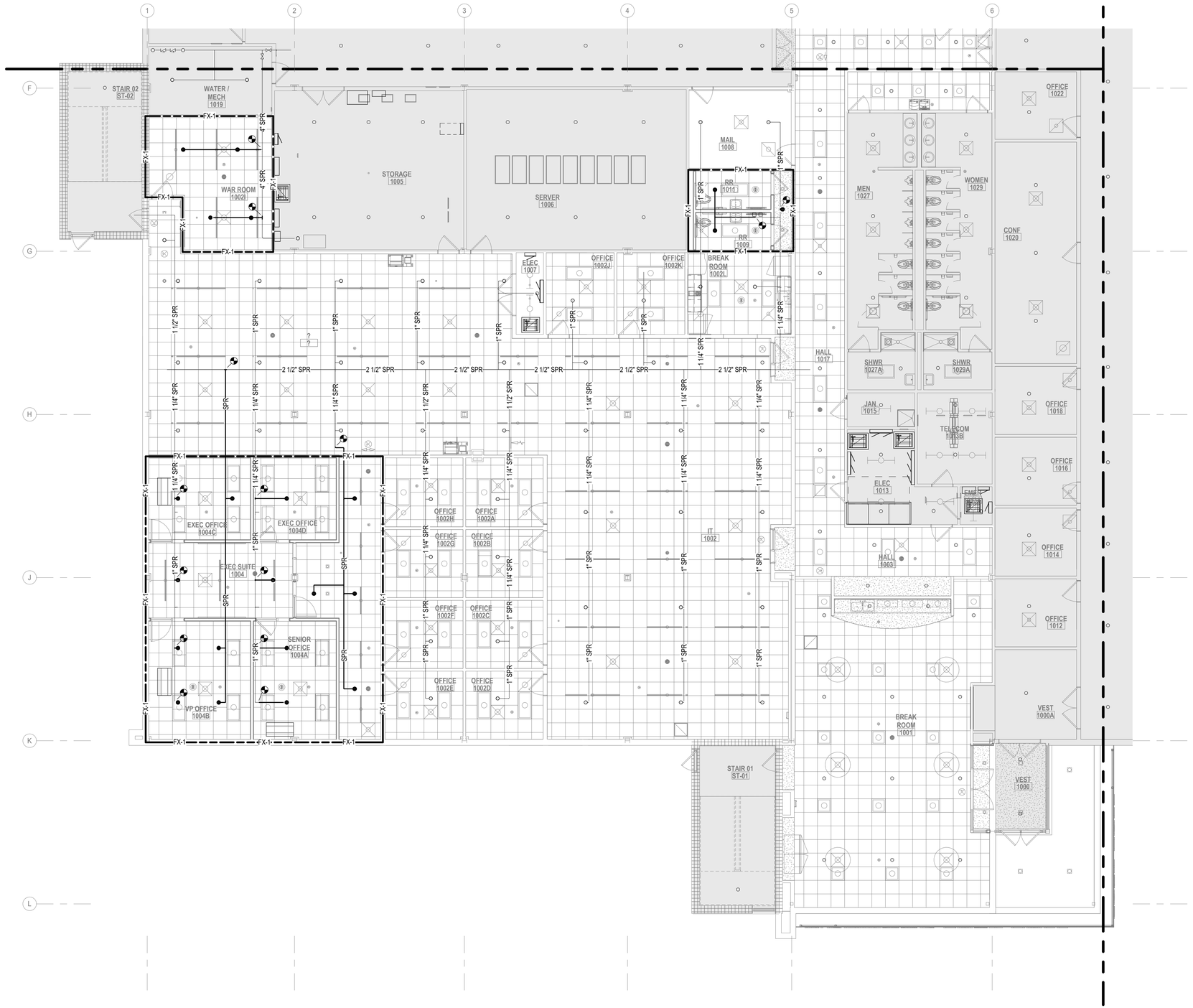
1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

Fire Suppression Demolition Plan - Level 2 - Area A

DATE
07.23.2026
DRAWING NUMBER
FXD112.A
PROJECT NUMBER
25030

BID SET



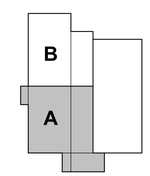
1 FIRE SUPPRESSION PLAN - LEVEL 1 - Area A (Southwest)
FX111.A 1/8" = 1'-0"

KEYED NOTES

FX-1	PROVIDE NEW SPRINKLER HEADS AND ASSOCIATED BRANCH PIPING TO ACCOMMODATE REVISED FLOOR PLAN AND CEILINGS IN THIS AREA.

NEW WORK KEY
- EXISTING
- NEW / REVISED

SPRINKLER HEAD NEW WORK KEY PLAN
- NEW/REVISED
- EXISTING TO REMAIN



KEY PLAN

BID SET

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

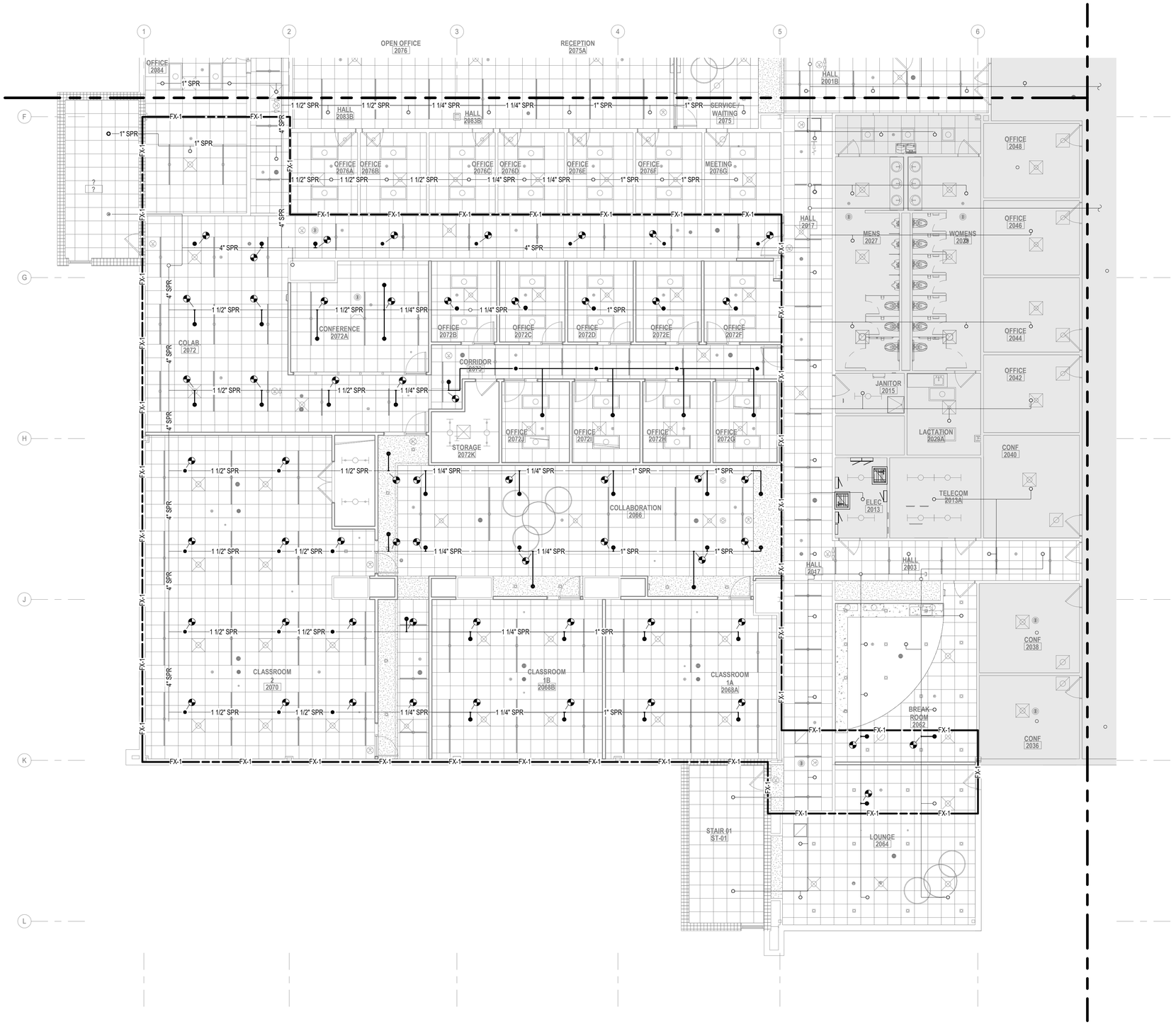
All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Fire Suppression Plan - Level 1 - Area A

DATE
07.23.2026
DRAWING NUMBER
FX111.A
PROJECT NUMBER
25030



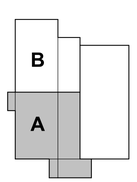
1 FX112.A FIRE SUPPRESSION PLAN - LEVEL 2 - Area A (Southwest)
1/8" = 1'-0"

KEYED NOTES

FX-1	PROVIDE NEW SPRINKLER HEADS AND ASSOCIATED BRANCH PIPING TO ACCOMMODATE REVISED FLOOR PLAN AND CEILINGS IN THIS AREA.

NEW WORK KEY
- EXISTING
- NEW / REVISED

SPRINKLER HEAD NEW WORK KEY PLAN
- NEW/REVISED
- EXISTING TO REMAIN



KEY PLAN

N

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Fire Suppression Plan - Level 2 - Area A

DATE
07.23.2026
DRAWING NUMBER
FX112.A
BID SET
PROJECT NUMBER
25030

PLUMBING ABBREVIATIONS

(NOTE: ALL ABBREVIATIONS SHOWN MAY NOT BE REQUIRED FOR THIS PROJECT)

*** ABBREVIATIONS ***

ACU	AIR COMPRESSOR UNIT
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
B	BOILER
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BOP	BOTTOM OF PIPE
BPD	BACKFLOW PREVENTION DEVICE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CO	CLEANOUT
CVU	CENTRAL VACUUM UNIT
DAD	DESICCANT AIR DRYER
DF	DRINKING FOUNTAIN
DIU	DEIONIZATION UNIT
DWP	DRAINAGE WATER PUMP
ECM	ELECTRICALLY COMMUTATED MOTOR
EEW/EW	EMERGENCY EYEWASH
ES/ESH	EMERGENCY SHOWER
ESE	EMERGENCY SHOWER/EYEWASH
ET/ETK	EXPANSION TANK
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLA	FULL LOAD AMPS
FPT	FEMALE PIPE THREAD
FS	FLOOR SINK
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR
FWE	FURNISHED WITH EQUIPMENT
GA	GAUGE
GD	GARBAGE DISPOSER
GEN	GENERATOR
GWH	GAS WATER HEATER
HUM	HUMIDIFIER
HWCP/RSP	HOT WATER CIRCULATING PUMP
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN WC	INCHES (WATER COLUMN)
INS	INSULATION
IP	INTERNET PROTOCOL
ISO	ISOMETRIC
L/ LAV	LAVATORY
LT	LAUNDRY TUB
LWT	LEAVING WATER TEMPERATURE
MBH	BRITISH THERMAL UNIT (1000/HR)
MCA	MINIMUM CIRCUIT AMPACITY
MFS	MAX FUSE SIZE
MOP/MOPD/ MOCPD	MAX OVER-CURRENT PROTECTIVE DEVICE
MPT	MALE PIPE THREAD
MS	MOP SINK
NC	NORMALLY CLOSED
NGU	NITROGEN GENERATOR
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
PCW	PROCESS WATER PUMP
PH	PHASE
POE	POWER OVER ETHERNET
PRA	AIR PRESSURE REGULATOR
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	PLUMBING TRANSFORMER
PWP	PURE WATER PUMP
RAD	REFRIGERATED AIR DRYER
RD	ROOF DRAIN
RECIRC	RECIRCULATE (ING)
RLA	RUNNING LOAD AMPS
ROU	REVERSE OSMOSIS UNIT
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
RTK	RECEIVER TANK
RWP	RECIRCULATING PUMP
S	SINK
SA	SUPPLY WATER HAMMER ARRESTOR
SH	SHOWER
SI	SOLIDS INTERCEPTOR
SMP	SUMP PUMP
SP	SUMP PUMP
SWH	STEAM WATER HEATER
SWP	SEWAGE PUMP
TAB	TESTING & BALANCING
TD	TRENCH DRAIN
TYP	TYPICAL
UR	URINAL
VB	VALVE BOX
VCP	VACUUM PUMP
VFD	VARIABLE FREQUENCY DRIVE
VTK	VACUUM TANK
VTR	VENT THROUGH ROOF
W	WATTS
WC	WATER CLOSET
WCO	WALL CLEANOUT
WF	WASH FOUNTAIN
WH	WATER HEATER
WHA	WATER HAMMER ARRESTOR
WPB	BOOSTER WATER PUMP
WS	WATER SOFTENER
WSU	WATER SOFTENER UNIT
WTK	WATER TANK
YCO	YARD CLEANOUT

PLUMBING SYMBOLS

(NOTE: ALL SYMBOLS SHOWN MAY NOT BE REQUIRED FOR THIS PROJECT)

*** PLUMBING SYMBOLS ***

- ALL BELOW GRADE SYSTEMS
- ST — STORM SEWER - ST
- OST — OVERFLOW STORM SEWER - OST
- SPD — SUMP PUMP DISCHARGE - SPD
- SAN — SANITARY SEWER - SAN
  ACID WASTE - AW
- SAN-G — GREASE SANITARY SEWER - SAN-G
- V — PLUMBING VENT. VENT - V, VENT THRU ROOF - VTR, ACID VENT - AV
- CW — COLD WATER - CW
- HW — 120º HOT WATER - HW
- HW140 — 140º HOT WATER - HW 140
- HWC — HOT WATER CIRCULATING - HWC
- TW — TEMPERED WATER - TW
- G## — LOW PRESSURE GAS - G-##
  *** NUMBER CORRESPONDS TO DESIGN PRESSURE ***
- G## — HIGH PRESSURE GAS - G-##
  *** NUMBER CORRESPONDS TO DESIGN PRESSURE ***
- A — COMPRESSED AIR - A
- FLOOR CLEANOUT - FCO
- YARD CLEANOUT - YCO
- PIPE CLEANOUT - CO
- WALL CLEANOUT - WCO
- PLUMBING DRAIN. FLOOR DRAIN - FD, FLOOR SINK - FS, AREA DRAIN - AD
- ROOF DRAIN - RD
- DOWNSPOUT - DSN
- WALL HYDRANT - H
- HOSE BIBB - H
- SHOWER - SH
- UNION
- DIELECTRIC UNION
- SHUT-OFF VALVE
- STRAINER
- ANGLE SHUT-OFF VALVE
- BALANCING VALVE
- FLOW CONTROL VALVE
- AUTOMATIC CONTROL VALVE
- RELIEF OR SAFETY VALVE
- PRESSURE REDUCING VALVE
- CHECK VALVE
- BACKFLOW PREVENTER
- VALVE IN RISER
- 3-WAY AUTOMATIC CONTROL VALVE
- PRESSURE-TEMPERATURE RELIEF VALVE
- M — WATER METER, GAS METER

*** TAGS ***

EQUIPMENT PLAN MARK PER EQUIPMENT SCHEDULE
XX = EQUIPMENT DESIGNATION
YY = EQUIPMENT NUMBER

- XX / YY — EQUIPMENT DESIGNATION PER EQUIPMENT SCHEDULE
- XX-YY — FIXTURE DESIGNATION PER FIXTURE SCHEDULE
- YY — SPECIAL EQUIPMENT DESIGNATION

*** PIPING SPECIALTIES ***

- ELBOW TURNED UP OR TOWARDS
- ELBOW TURNED DOWN OR AWAY
- TEE TURNED UP OR TOWARDS
- TEE TURNED DOWN OR AWAY
- DROP / RISE — DROP OR RISE
- ARROW IN LINE INDICATES DIRECTION OF FLOW
- PITCH DOWN IN DIRECTION OF ARROW
- CAP OR PLUG
- CONNECTION - NEW TO EXISTING

*** REFERENCE ***

- ELECTRICAL PANEL SHOWN FOR COORDINATION

*** EQUIPMENT ***

- CLEAR / EQUIPMENT — EQUIPMENT SERVICE CLEARANCE

GENERAL PLUMBING DEMOLITION NOTES:

1. REFER TO DEMOLITION KEY FOR ITEMS TO BE REMOVED VERSUS ITEMS TO REMAIN.
2. SHUT DOWN OF EXISTING PLUMBING SYSTEMS TO BE REQUESTED AND COORDINATED THROUGH OWNER'S REPRESENTATIVEIN ACCORDANCE WITH DIVISION 00 AND 01 SPECIFICATIONS. DOWNTIME FOR ALL SYSTEMS SHALL BE MINIMIZED.
3. SCHEDULE FOR ALL WORK IMPACTING ADJACENT OCCUPIED AREAS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE WORK TO BE PERFORMED IN A MANNER THAT MINIMIZES THE INTERRUPTIONS AND INCONVENIENCE TO THE OWNER'S OCCUPANCY OF THESE SPACES.
4. NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO CREATING ANY SMOKE, HEAT, MOISTURE, VAPORS OR DUST AROUND ANY FIRE ALARM EQUIPMENT.
5. WHERE PIPING THROUGH A FLOOR OR A WALL IS REMOVED, PATCH ALL REMAINING HOLES TO MATCH EXISTING AND TO PROVIDE THE REQUIRED FIRE RATING.
6. WHERE EXISTING PIPING TO BE REMOVED IS ROUTED IN AN EXISTING WALL OR FLOOR SLAB TO REMAIN, PIPING TO BE CAPPED AND ABANDONED IN WALL OR FLOOR SLAB.
7. FOR ALL WORK REQUIRED ABOVE EXISTING CEILINGS TO REMAIN, (EITHER WITHIN OR OUTSIDE THE PROJECT AREA) CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF ALL CEILING TILE AS REQUIRED TO ACCOMPLISH THE WORK. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR TYPES AND EXTENT OF BOTH EXISTING AND NEW CEILINGS THROUGHOUT PROJECT.
8. FOR EXISTING PIPING SHOWN TO BE REMOVED TO BELOW SLAB, SLAB TO BE CUT AND PIPING TO BE REMOVED TO BELOW SLAB AS REQUIRED. FLOOR TO THEN BE PATCHED AS REQUIRED TO PROVIDE FLUSH FINISH FOR FLOOR. PIPING SHOWN TO BE REMOVED BELOW SLAB MAY REMAIN ABANDONED IN PLACE EXCEPT WHERE REMOVAL IS REQUIRED TO FACILITATE THE ROUTING OF NEW PIPING.

GENERAL PLUMBING NOTES:

1. DRAWINGS ARE IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK, AND TO INDICATE THE GENERAL LOCATIONS OF EQUIPMENT, PIPING AND DUCTWORK. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT THEIR OWN WORK ACCORDING TO THE FOLLOWING GUIDELINES:
   a. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS FOR EQUIPMENT AND ROUGH- IN'S AND THE EXACT ROUTING OF PIPING PRIOR TO CONSTRUCTION SO AS TO BEST FIT THE LAYOUT OF THE WORK. SPACE ABOVE CEILINGS IS LIMITED; COORDINATE FINAL LAYOUT WITH ALL TRADES.
   b. WHERE OFFSETS IN PIPING ARE REQUIRED TO COORDINATE THE WORK OF OTHER TRADES, WITH STRUCTURE, PIPING, CONDUIT, DUCTWORK ETC, OR TO MAINTAIN REQUIRED CEILING HEIGHTS, THEY SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
   c. ALL EXISTING PIPING ROUTING SHOWN IS INTENDED TO INDICATE APPROXIMATE SIZE, NUMBER AND LOCATION OF PIPING BRANCHES FOR BIDDING PURPOSES ONLY. CONTRACTOR TO VERIFY EXACT SIZE, SERVICE, LOCATION AND CONFIGURATION PRIOR TO CONSTRUCTION.
   d. UNLESS OTHERWISE NOTED, ALL PIPING TO BE ROUTED CONCEALED IN WALLS, CHASES OR ABOVE SUSPENDED CEILING. WATER PIPING SHALL NOT BE ROUTED IN EXTERIOR WALLS. COORDINATE LAYOUT WITH EXISTING CONDITIONS AND ALL OTHER TRADES. ROUTE ALL PIPING AS HIGH AS POSSIBLE AND ALONG WALLS TO MAXIMIZE SPACE AVAILABLE FOR OTHER TRADES.
   e. COORDINATE ROUTING OF PIPING TO MAINTAIN ACCESS TO FILTERS, MOTORS, ELECTRICAL EQUIPMENT, AND CONTROLS. IN NO CASE SHALL PIPING PASS DIRECTLY OVER ELECTRICAL PANELS OR DISCONNECTS OR RESTRICT ACCESS TO ANY ELECTRICAL EQUIPMENT INCLUDING JUNCTION BOXES.
   f. COORDINATE EXACT STORM PIPE CONNECTIONS WITH ROOF DRAIN LOCATIONS SHOWN ON ARCHITECTURAL PLANS. SET ROOF DRAINS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND ROOF DRAIN AND ROOF INSULATION DETAILS. NOTIFY THE DESIGN PROFESSIONAL BEFORE INSTALLATION PROCEEDS IF THERE ARE DISCREPANCIES.
   g. VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING SYSTEMS AND COMPONENTS REQUIRING CONNECTION TO NEW PIPING PRIOR TO COMMENCING WORK.
2. CUT AND PATCH WALLS AND FLOORS AS REQUIRED FOR INSTALLATION OF NEW SYSTEMS.
   a. ALL OPENINGS IN CONCRETE OR MASONRY CONSTRUCTION SHALL BE CORE DRILLED OR SAW CUT. COORDINATE WITH STRUCTURE AND GENERAL CONTRACTOR AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY AND MINIMIZE SIZE OF OPENINGS.
   b. SEAL AROUND ALL PIPING PENETRATIONS WITH NON-SHRINK GROUT OR SIMILAR MATERIAL. WHERE PENETRATIONS ARE IN FIRE RATED CONSTRUCTION, PROVIDE FIRE STOP TO MATCH THE FIRE RATING. REFER TO ARCHITECTURAL PLANS FOR REQUIRED FIRE RATINGS. SEE DIVISION 07 SPECIFICATIONS FOR FIRE STOPPING REQUIREMENTS.
   c. PATCH AND FIRESTOP ALL ABANDONED EXISTING OPENINGS.
   d. WHEN PATCHING OPENINGS IN AREAS WHICH ARE NOT TO RECEIVE NEW FINISHES, PATCHING SHALL MATCH ADJACENT FINISH.
   e. REFER TO ARCHITECTURAL PLANS FOR INFORMATION ON WHICH PORTIONS OF THE EXISTING STRUCTURE ARE TO BE REMOVED AND WHICH ARE TO REMAIN AS WELL AS WHICH AREAS ARE TO RECEIVE NEW FINISHES.
3. BECAUSE OF THE SCALE OF THE DRAWINGS, CERTAIN PIPING OR ITEMS SUCH AS UNIONS, FITTINGS, OR VALVES, OR CLEANOUTS MAY NOT BE SHOWN, BUT WHERE SUCH ITEMS ARE REQUIRED BY CODE, THE SPECIFICATIONS, OR WHERE THEY ARE REQUIRED BY THE NATURE OF THE WORK, THEY SHALL BE FURNISHED AND INSTALLED.
4. UNLESS SPECIFICALLY SHOWN OTHERWISE, CLEANOUTS SHALL BE LOCATED IN WALLS. CLEANOUTS SHALL NOT BE LOCATED ABOVE CEILINGS. FOR CLEANOUTS THAT ARE REQUIRED, BUT NOT SHOWN ON PLANS, COORDINATE EXACT LOCATIONS WITH GENERAL CONTRACTOR AND DESIGN PROFESSIONAL PRIOR TO INSTALLATION. INSTALL CLEANOUTS IN WALL AT 30" A.F.F. OR AT 42" A.F.F. WHEN LOCATED BEHIND CABINETS OR WATER CLOSETS. CLEANOUT SHALL BE INSTALLED OFFSET FROM TOILET/URINAL PARTITIONS SO PARTITION DOES NOT OBSTRUCT ACCESS TO THE CLEANOUT.
5. ALL ELEMENTS OF THE CONSTRUCTION SHALL BE PERFORMED BY TRADES PEOPLE SKILLED IN THE PARTICULAR CRAFT INVOLVED, AND REGULARLY EMPLOYED IN THAT PARTICULAR CRAFT. ALL WORK SHALL BE PERFORMED IN A NEAT, PROFESSIONAL MANNER IN KEEPING WITH THE HIGHEST STANDARDS OF THE CRAFT.
6. COORDINATE INSTALLATION OF ALL PLUMBING ITEMS PENETRATING THE EXTERIOR BUILDING ENVELOPE WITH GENERAL CONTRACTOR. ALL ITEMS PENETRATING THE ROOF ARE TO BE INSTALLED PER ROOFING MANUFACTURER REQUIREMENTS.
7. COORDINATE LOCATIONS AND SIZES OF OPENINGS IN STRUCTURE WITH GENERAL CONTRACTOR. WHEN ADDITIONAL CUTTING AND PATCHING IS REQUIRED DUE TO PLUMBING CONTRACTOR'S FAILURE TO COORDINATE THIS WORK, IT SHALL BE THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE ADDITIONAL CUTTING AND PATCHING. SEAL AND/OR FIRE STOP ALL PENETRATIONS AS REQUIRED.
8. PLUMBING CONTRACTOR SHALL PROVIDE ALL REQUIRED SUPPORT STEEL FOR PIPING AND EQUIPMENT.
9. PROVIDE ISOLATION VALVES FOR ALL EQUIPMENT AND AT ALL BRANCH LINES SERVING TWO OR MORE FIXTURES.
10. CONTRACTOR TO COORDINATE THE EXACT LOCATIONS FOR ALL NEW FLOOR CLEAN OUTS THROUGHOUT WITH BOTH NEW AND EXISTING STRUCTURE AND WITH NEW FLOOR FINISHES/PATTERNS.
11. MANUAL BALANCING VALVES, BELL & GOSSETT MODEL CB CIRCUIT SETTERS OR EQUAL, SHALL BE PROVIDED FOR BALANCING OF THE DOMESTIC HOT WATER SYSTEM AS SHOWN PER THE PLANS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
12. THE SPACE ABOVE CEILINGS IN ALL AREAS IS LIMITED AND COORDINATION OF WORK IS MANDATORY.
13. SANITARY, STORM, AND VENT PIPING SIZES ARE BASED ON STANDARD CAST IRON PIPE SIZES; WHERE AN ALTERNATIVE MATERIAL IS USED, IF A DISCREPANCY IN AVAILABLE PIPE SIZE EXISTS FOR THAT MATERIAL, THE NEXT LARGEST AVAILABLE SIZE SHALL BE PROVIDED.
14. SHUT DOWN OF EXISTING PLUMBING SYSTEMS TO BE REQUESTED AND COORDINATED THROUGH THE OWNER'S REPRESENTATIVE IN ACCORDANCE WITH DIVISION 00 AND 01 SPECIFICATIONS. SHUTDOWNS OF ALL SYSTEMS SHALL BE MINIMIZED.
15. REFER TO ARCHITECTURAL PLANS FOR DETAILED ELEVATIONS INDICATING STANDARD MOUNTING HEIGHTS, LOCATIONS AND ALIGNMENT REQUIREMENTS FOR ALL WALL MOUNTED DEVICES AND REFLECTED CEILING PLANS FOR ALL CEILING MOUNTED DEVICES.
16. WHERE CONNECTING TO EXISTING DOMESTIC WATER PIPING, PROVIDE ISOLATION VALVES TO FACILITATE TESTING AND CLEANING OF NEW PIPING SEPARATE FROM EXISTING SYSTEM.
17. WHERE THERE IS NO CEILING INDICATED NEW PIPING WILL BE ROUTED EXPOSED WITHIN ROOM. ALL EXPOSED PIPING SHALL BE PAINTED TO MATCH ADJACENT WALL/CEILING COLOR.
18. FOR ALL WORK REQUIRED ABOVE EXISTING CEILINGS TO REMAIN, (EITHER WITHIN OR OUTSIDE THE PROJECT AREA) CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF ALL CEILING TILE AS REQUIRED TO ACCOMPLISH THE WORK. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR TYPES AND EXTENT OF BOTH EXISTING AND NEW CEILINGS THROUGHOUT PROJECT.

PLUMBING DEMOLITION KEYED NOTES	
PD-1	REMOVE SINK IN PREPARATION FOR INSTALLATION OF NEW SINK AT SAME LOCATION, SEE NEW WORK
PD-2	REMOVE SINK AND ASSOCIATED ROUGH-IN PIPING AND CAP CW, HW AND SANITARY WASTE IN WALL. REMOVE TRAP PRIMER IN PREPARATION FOR RELOCATING ABOVE CEILING

PLUMBING KEYED NOTES	
P-1	RE-INSTALL EXISTING TRAP PRIMER FROM CASEWORK TO ABOVE CEILING
P-2	INSTALL NEW SINK COORDINATE LOCATION TO RECONNECT TO ALL EXISTING SUPPLY AND WASTE PIPING
P-3	FOR INSTALLATION OF UNDERSLAB PIPING, COORDINATE CUTTING AND PATCHING OF FLOOR WITH GENERAL CONTRACTOR
P-4	DEMO EXISTING TAKE OFF LOCATIONS AND CONNECT NEW LINES DURING UNOCCUPIED HOURS TO MINIMIZE DISRUPTION

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

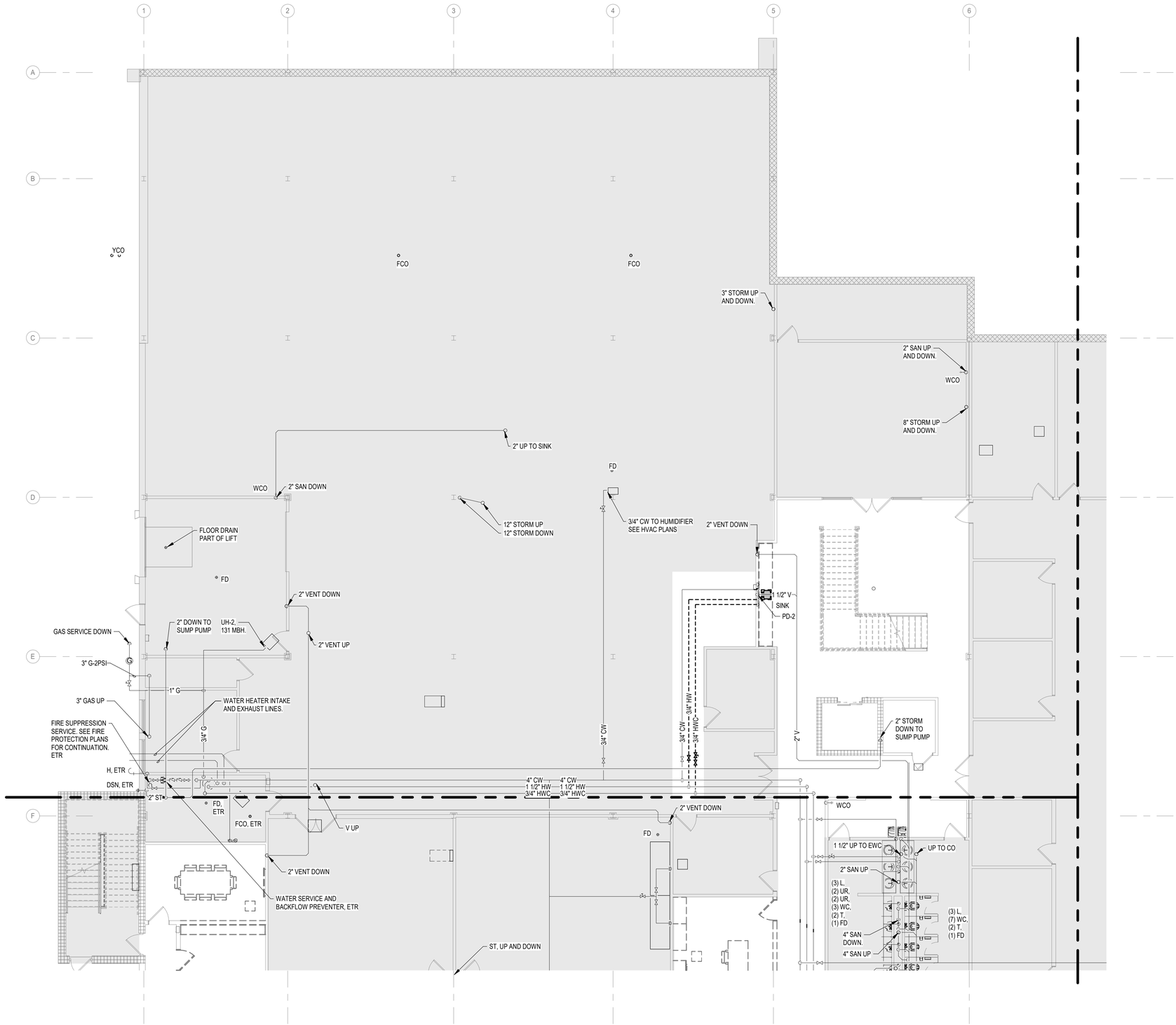
Plumbing Notes and Symbols

DATE
07.23.2026

DRAWING NUMBER
P000

BID SET

PROJECT NUMBER
25030

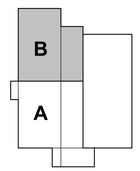


1 PD111.B PLUMBING DEMOLITION PLAN - LEVEL 1 - Area B (Northwest)
1/8" = 1'-0"

KEYED NOTES

PD-2	REMOVE SINK AND ASSOCIATED ROUGH-IN PIPING AND CAP CW, HW AND SANITARY WASTE IN WALL. REMOVE TRAP PRIMER IN PREPARATION FOR RELOCATING ABOVE CEILING

DEMOLITION KEY
- TO REMAIN
- TO BE REMOVED / REVISED
- EQUIPMENT TO REMAIN
- EQUIPMENT TO BE REMOVED / REVISED



KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

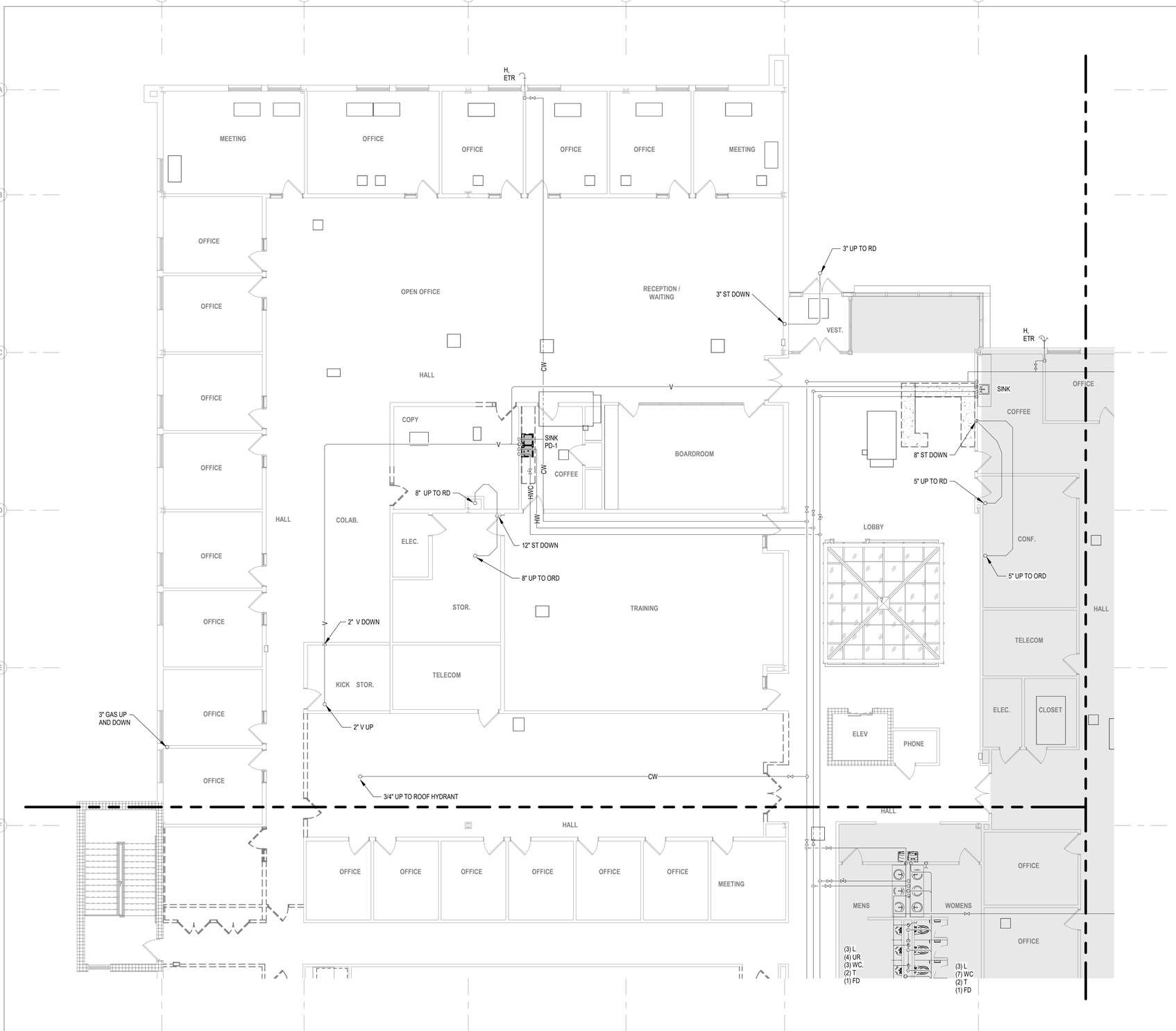
All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Plumbing Demolition Plan - Level 1 - Area B

DATE 07.23.2026
DRAWING NUMBER PD111.B
BID SET
PROJECT NUMBER 25030

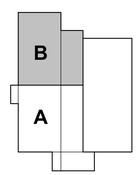


1 PD112.B PLUMBING DEMOLITION PLAN - LEVEL 2 - Area B (Northwest)
1/8" = 1'-0"

KEYED NOTES

PD-1	REMOVE SINK IN PREPARATION FOR INSTALLATION OF NEW SINK AT SAME LOCATION, SEE NEW WORK

DEMOLITION KEY
- TO REMAIN
- TO BE REMOVED / REVISED
- EQUIPMENT TO REMAIN
- EQUIPMENT TO BE REMOVED / REVISED



KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

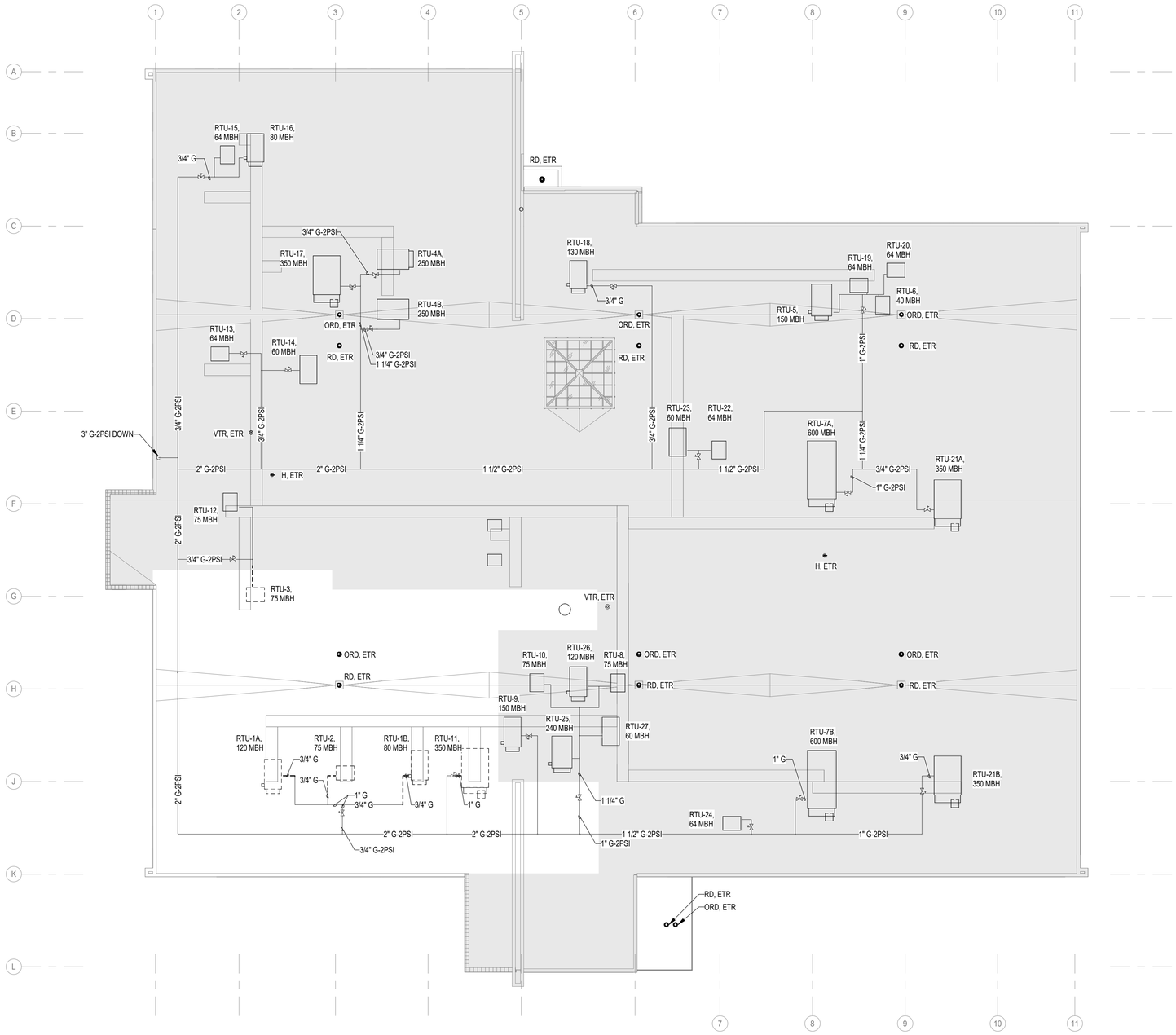
REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Plumbing Demolition Plan - Level 2 - Area B

DATE 07.23.2026
DRAWING NUMBER PD112.B
PROJECT NUMBER 25030

BID SET

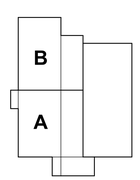


1 PD133 OVERALL PLUMBING DEMOLITION PLAN - ROOF
1/16" = 1'-0"

KEYED NOTES

DEMOLITION KEY

- TO REMAIN
- TO BE REMOVED / REVISED
- EQUIPMENT TO REMAIN
- EQUIPMENT TO BE REMOVED / REVISED



KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

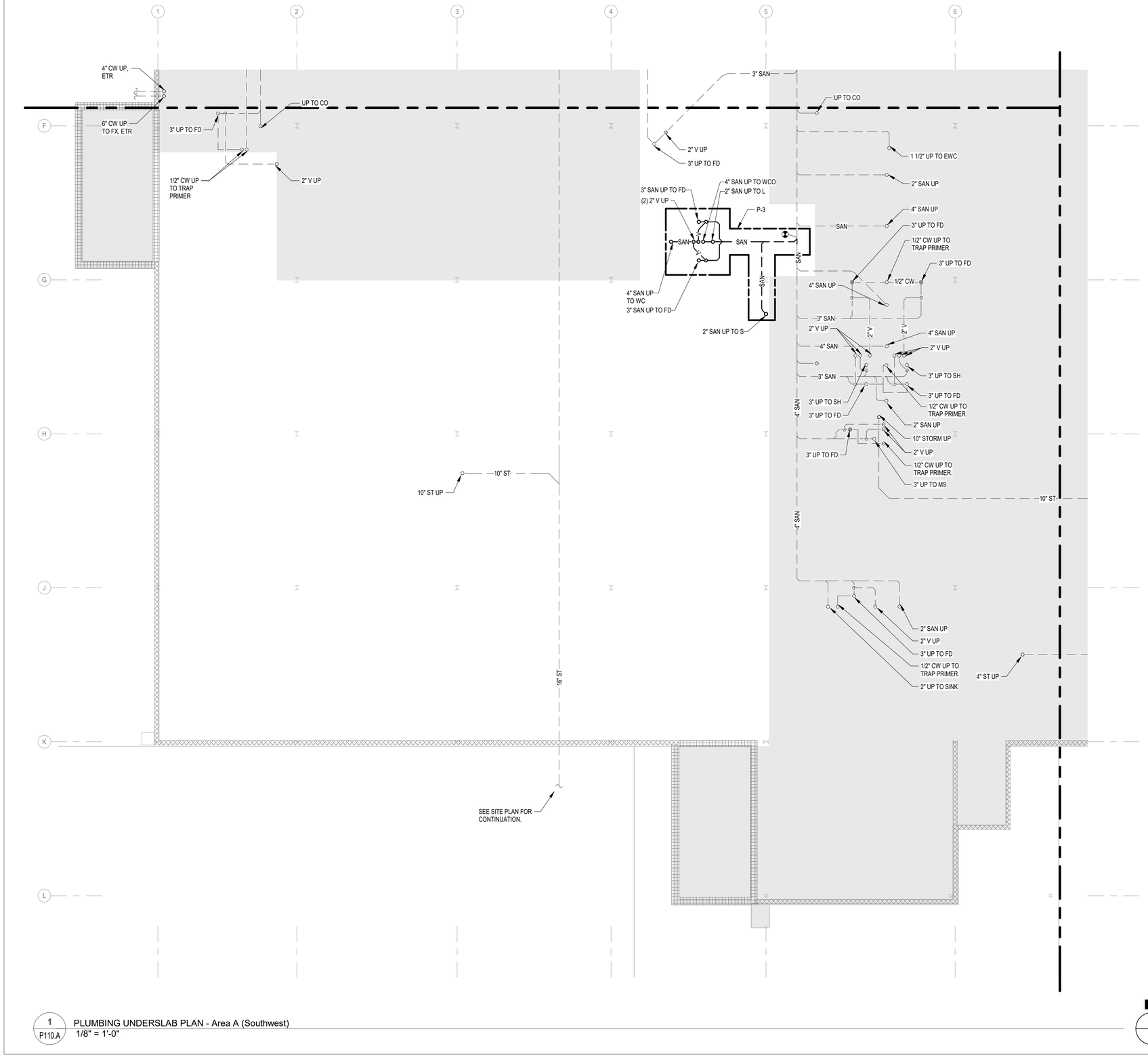
1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

Overall Plumbing Demolition Roof Plan

DATE
07.23.2026
DRAWING NUMBER
PD133
PROJECT NUMBER
25030

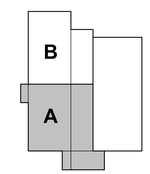
BID SET



1 P110.A PLUMBING UNDERSLAB PLAN - Area A (Southwest)
1/8" = 1'-0"

KEYED NOTES	
P-3	FOR INSTALLATION OF UNDERSLAB PIPING, COORDINATE CUTTING AND PATCHING OF FLOOR WITH GENERAL CONTRACTOR

BELOW SLAB NEW WORK KEY
- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT



KEY PLAN

BID SET

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

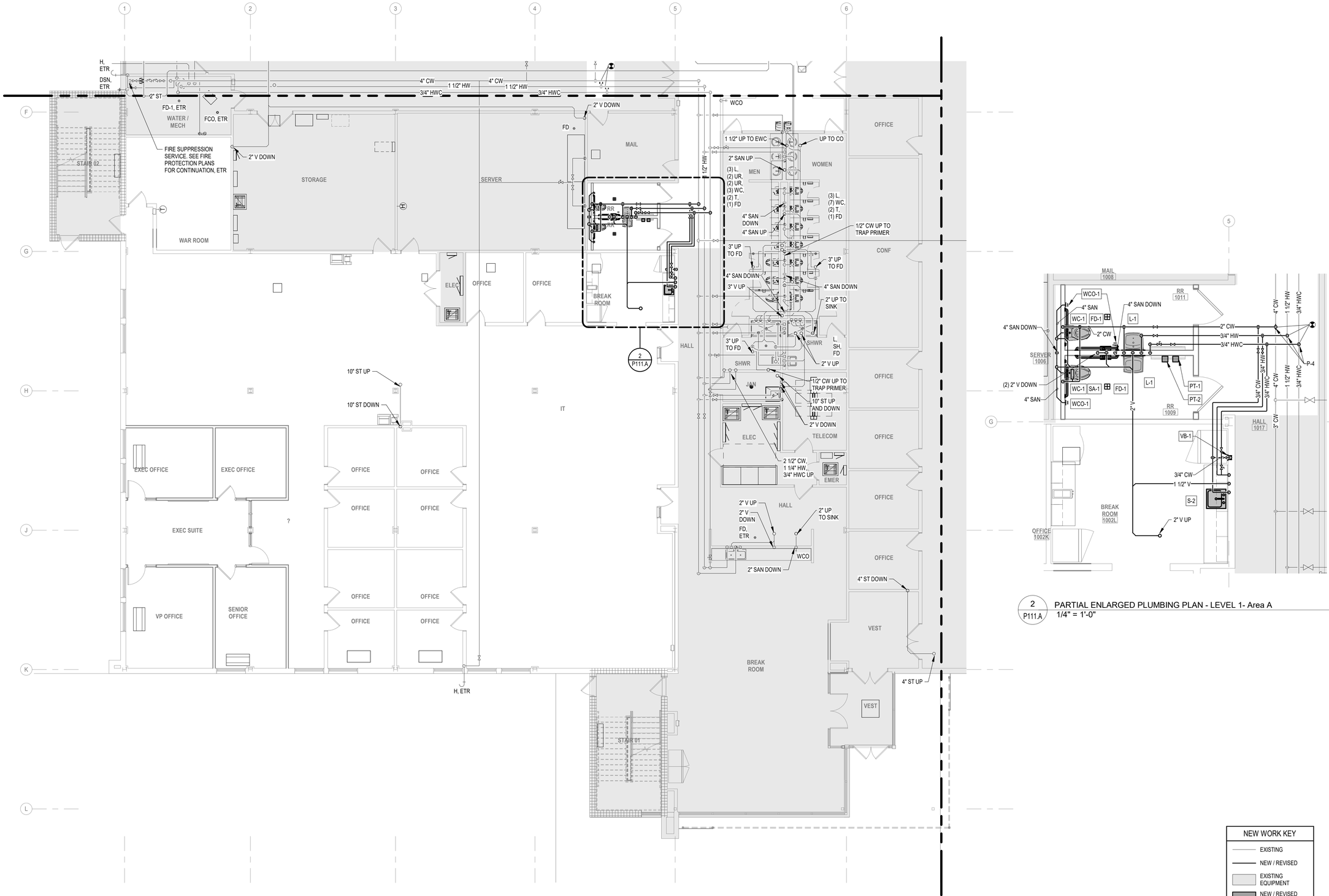
Kirkwood East Hall - Remodel

Plumbing Underslab Plan - Area A

DATE
07.23.2026

DRAWING NUMBER
P110.A

PROJECT NUMBER
25030



2 P111.A PARTIAL ENLARGED PLUMBING PLAN - LEVEL 1- Area A
1/4" = 1'-0"

1 P111.A PLUMBING PLAN - LEVEL 1- Area A (Southwest)
1/8" = 1'-0"

KEYED NOTES

P-4	DEMO EXISTING TAKE OFF LOCATIONS AND CONNECT NEW LINES DURING UNOCCUPIED HOURS TO MINIMIZE DISRUPTION

NEW WORK KEY
- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT

KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

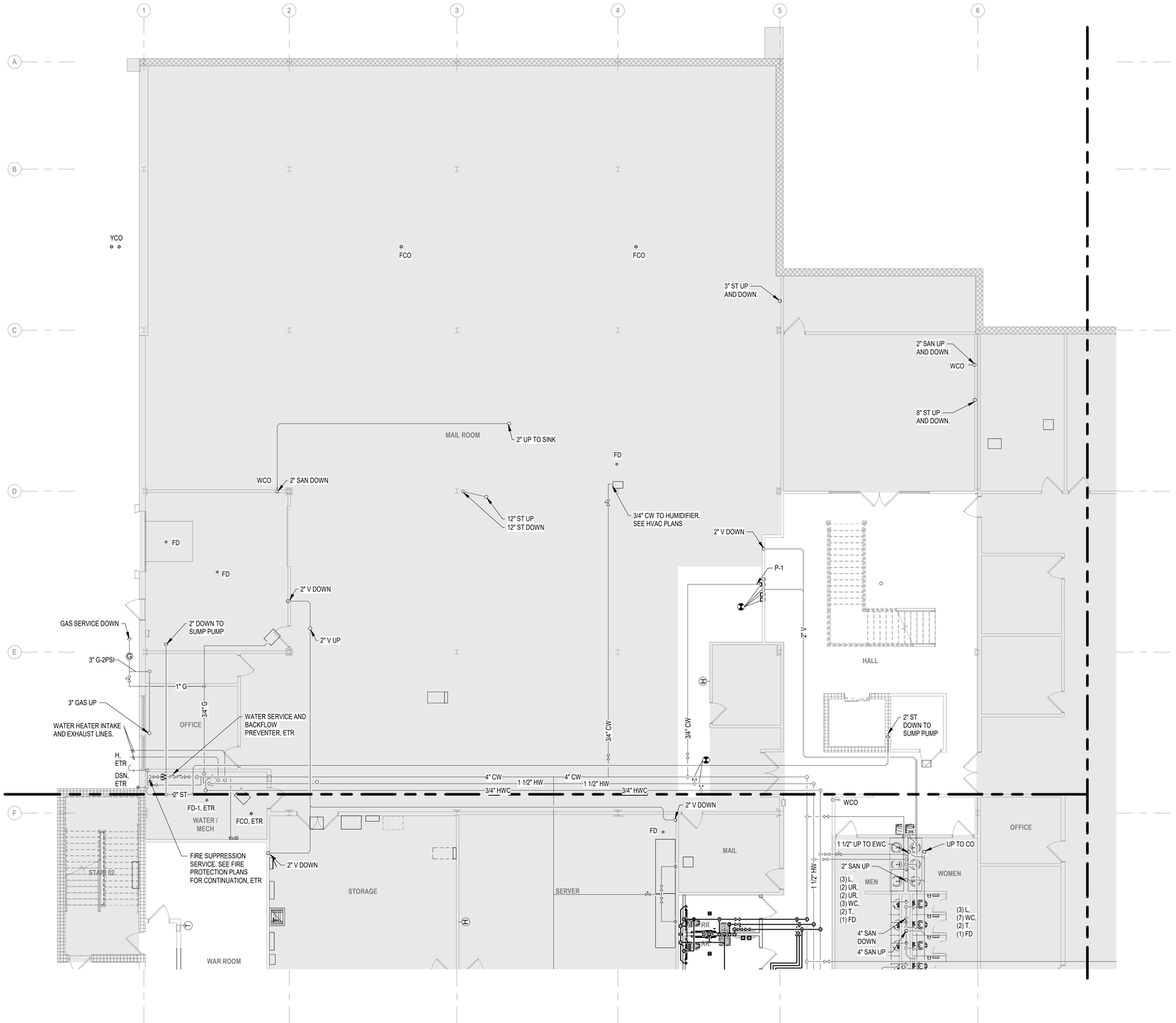
REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Plumbing Plan - Level 1 Area A

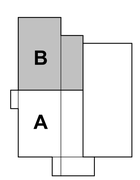
DATE 07.23.2026
DRAWING NUMBER P111.A
PROJECT NUMBER 25030

BID SET



KEYED NOTES	
P-1	RE-INSTALL EXISTING TRAP PRIMER FROM CASEWORK TO ABOVE CEILING

NEW WORK KEY
EXISTING
NEW / REVISED
EXISTING EQUIPMENT
NEW / REVISED EQUIPMENT



KEY PLAN

1 P111.B PLUMBING PLAN - LEVEL 1 - Area B (Northwest)
1/8" = 1'-0"

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

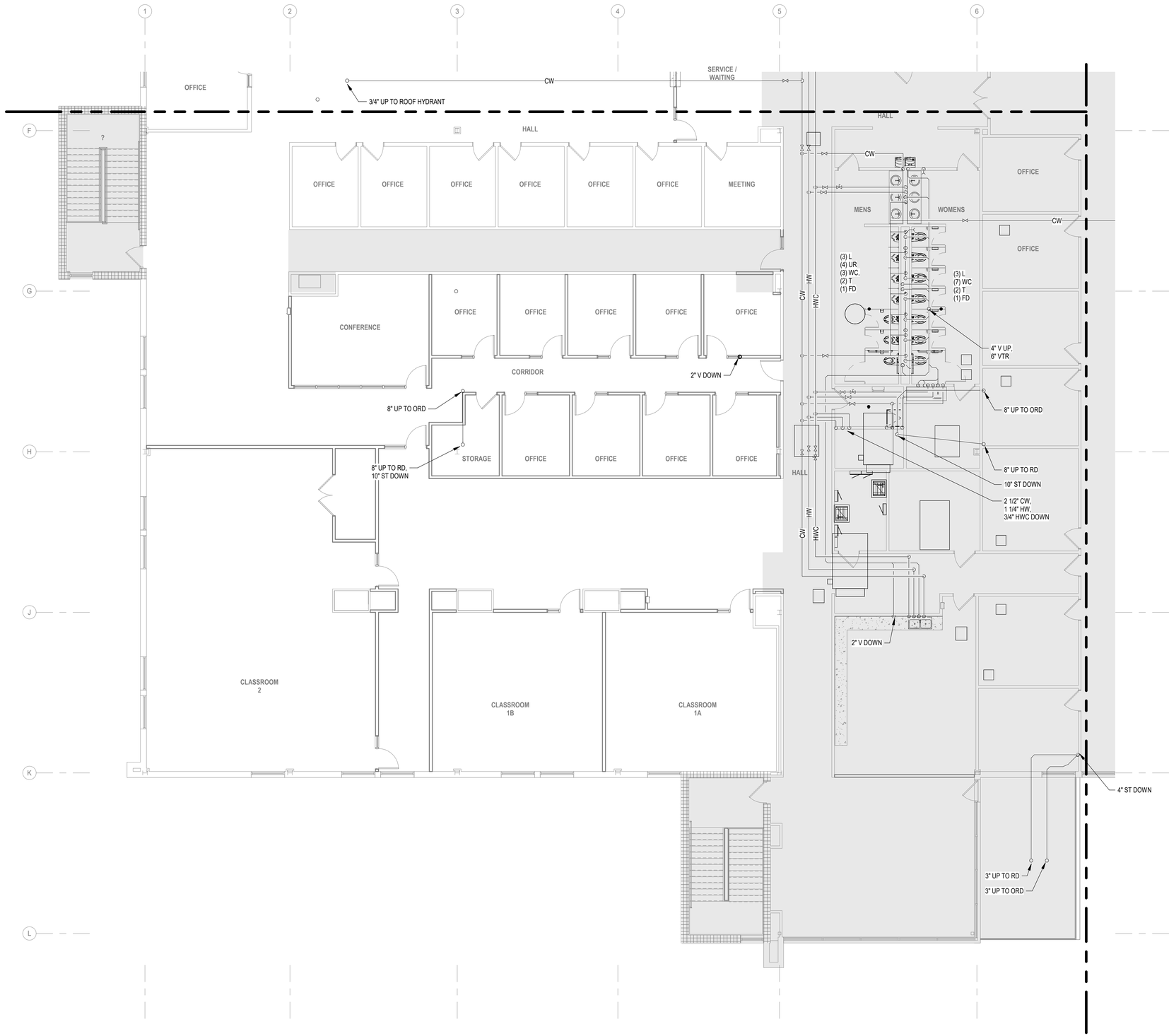
REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Plumbing Plan - Level 1 Area B

DATE
07.23.2026
DRAWING NUMBER
P111.B
PROJECT NUMBER
25030

BID SET

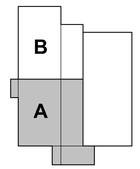


KEYED NOTES

NEW WORK KEY

- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT

KEY PLAN



1 P112.A PLUMBING PLAN LEVEL 2 - Area A (Southwest)
1/8" = 1'-0"

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

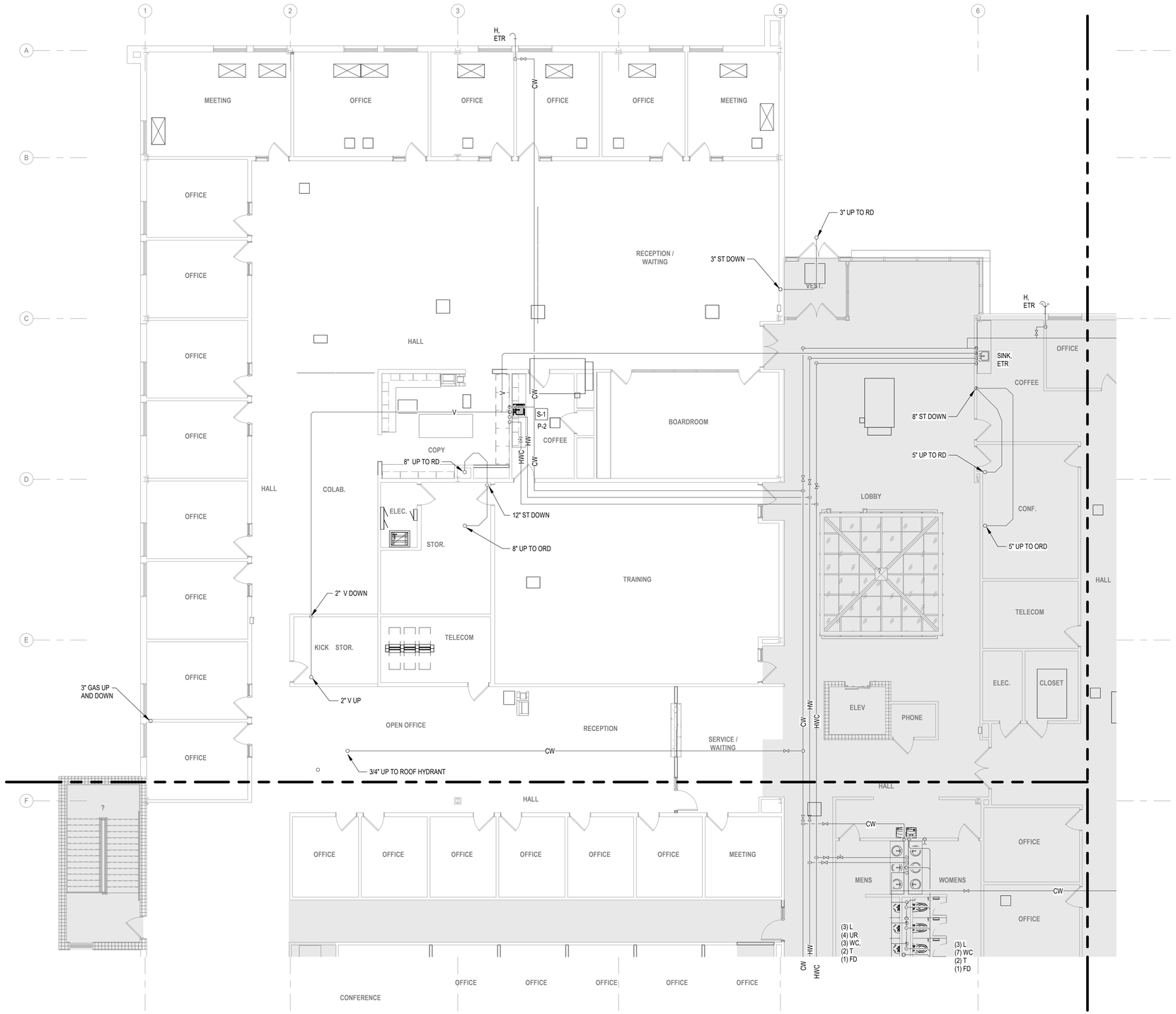
REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

Plumbing Plan - Level 2 Area A

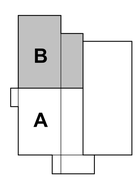
DATE
07.23.2026
DRAWING NUMBER
P112.A
BID SET
PROJECT NUMBER
25030



1 / P112.B PLUMBING PLAN - LEVEL 2 - Area B (Northwest)
1/8" = 1'-0"

KEYED NOTES	
P-2	INSTALL NEW SINK COORDINATE LOCATION TO RECONNECT TO ALL EXISTING SUPPLY AND WASTE PIPING

NEW WORK KEY
- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT



KEY PLAN

BID SET

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

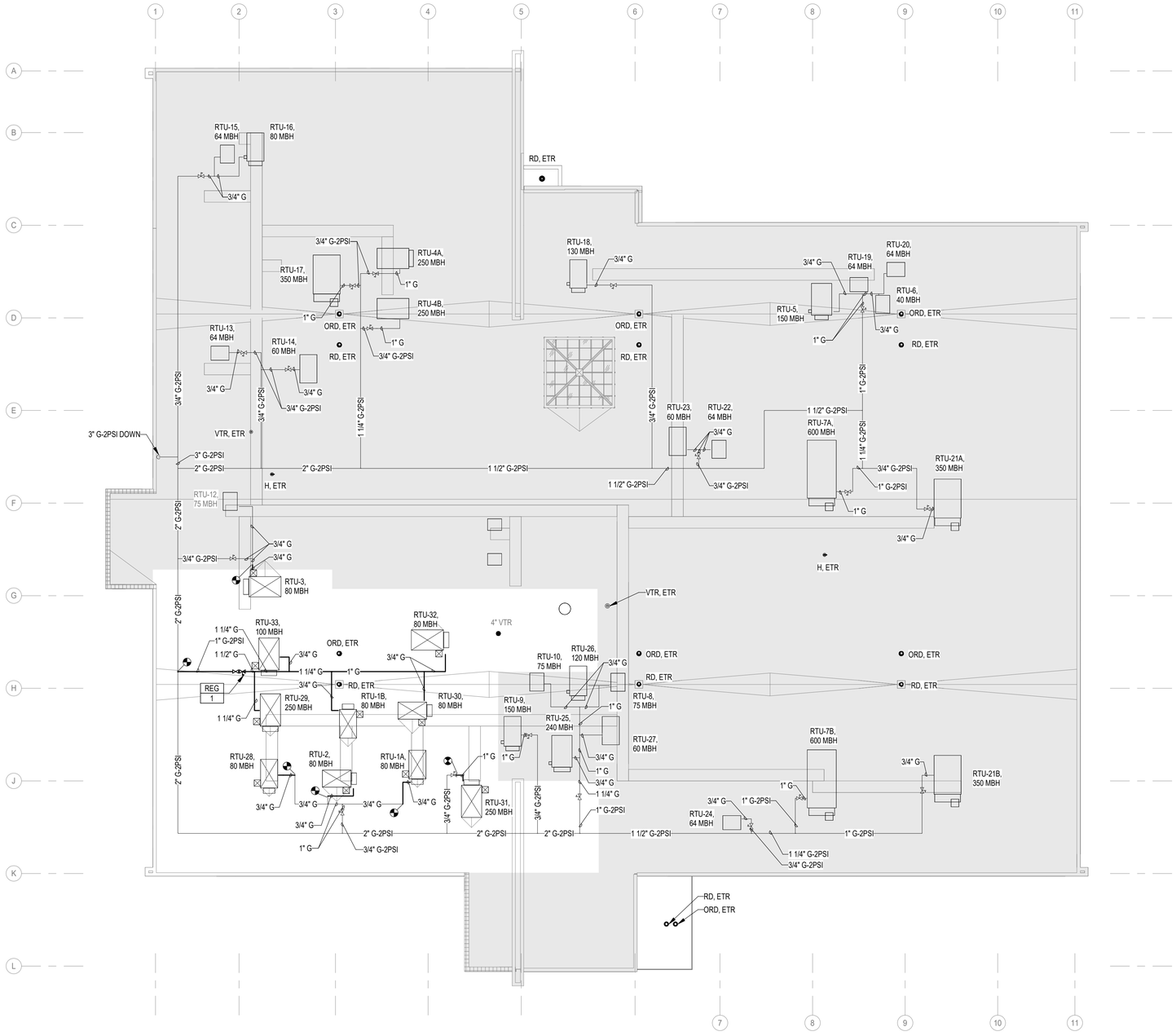
All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Plumbing Plan - Level 2 Area B

DATE 07.23.2026
DRAWING NUMBER P112.B
PROJECT NUMBER 25030



1 P133 OVERALL PLUMBING PLAN - ROOF
1/16" = 1'-0"

KEYED NOTES

NEW WORK KEY
- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT

KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

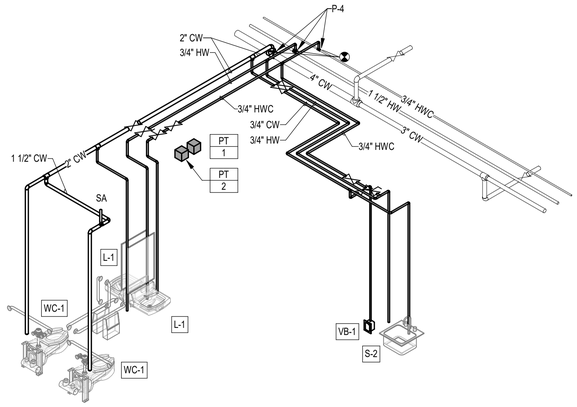
All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

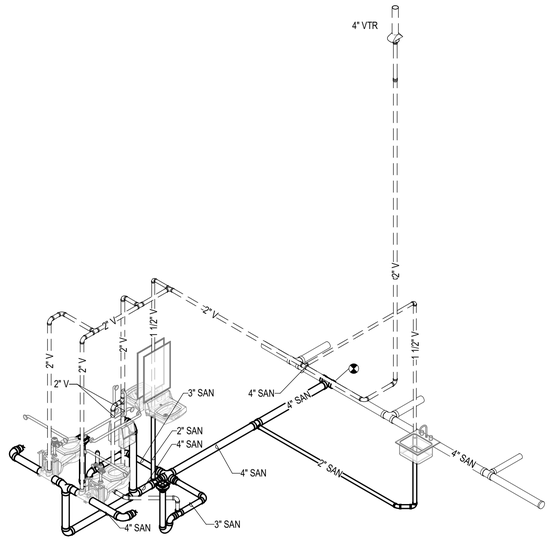
1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Overall Plumbing Roof Plan

DATE 07.23.2026
DRAWING NUMBER P133
BID SET
PROJECT NUMBER 25030

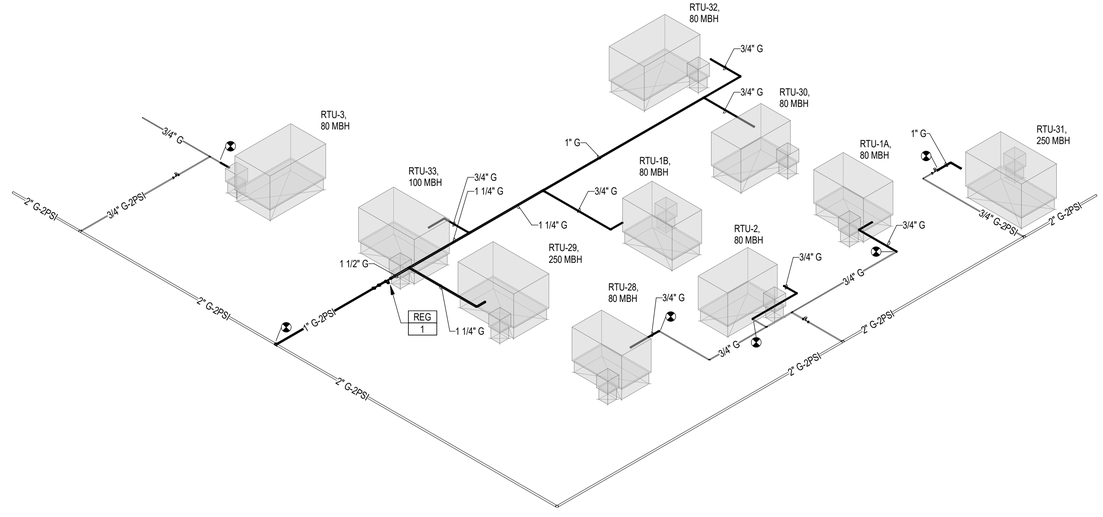


2 P400 SUPPLY ISOMETRIC
NOT TO SCALE



WASTE AND VENT PIPING ISOMETRIC KEY	
SAN	———
VENT	— — —

1 P400 WATE AND VENT ISOMETRIC
NOT TO SCALE



3 P400 GAS ISOMETRIC
NOT TO SCALE

KEYED NOTES	
P-4	DEMO EXISTING TAKE OFF LOCATIONS AND CONNECT NEW LINES DURING UNOCCUPIED HOURS TO MINIMIZE DISRUPTION

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

B
A
KEY PLAN

Kirkwood East Hall - Remodel
Plumbing Isometrics

DATE 07.23.2026
DRAWING NUMBER P400
BID SET
PROJECT NUMBER 25030

PLUMBING FIXTURE SCHEDULE

PLAN MARK	BASE FIXTURE	DETAILS	FAUCET / FLUSH VALVE	WATER USAGE	ACCESSORIES / NOTES	COLOR
			SPECIFICATION SECTION 22 1116			
SA-1	SIOUX CHIEF HYDRA-RESTOR 653-B	3/4" SIZE				
			SPECIFICATION SECTION 22 1316			
WCO-1	WATTS CO-380-RD WALL CLEANOUT WITH ACCESS COVER	TWO-PIECE EXPANDABLE CLEANOUT PLUG WITH VANDALPROOF STAINLESS STEEL ACCESS COVER				
FD-1	WATTS SERIES FD-200-L FLOOR DRAIN	6" X 6" SQUARE NICKEL BRONZE STRAINER			WITH SURESEAL SS3009V PRE-ASSEMBLED INLINE FLOOR DRAIN TRAP SEALER	
			SPECIFICATION SECTION 22 4000			
L-1	KOHLER GREENWICH K-2032 VITREOUS CHINA LAVATORY	WALL HUNG, 4" CENTERS DRILLED FOR CONCEALED ARM CARRIER PROXIMITY SENSING TECHNOLOGY	DELTA MODEL# 591TP0250, 4" CENTERSET FAUCET WITH PROXIMITY SENSING TECHNOLOGY - HARDWIRE, 5" LONG SPOUT, ENTIRE SPOUT IS ADJUSTABLE SENSOR, VANDAL RESISTANT LAMINAR OUTLET	0.5 GPM	OPEN GRID STRAINER OFFSET P-TRAP ANGLE SUPPLIES WITH STOPS LAV SHIELD TO ALSO CONCEAL OUTLET, COORDINATE WITH ELECTRICAL CONTRACTOR. LEONARD MODEL 170-LF THERMOSTATIC MIXING VALVE TRUEBRO LAV SHIELD, USE FACTORY PRE-CUT FOR LAVATORY MODEL PROVIDED.	WHITE
S-1	ELKAY ECTRU21179T 22-1/2" x 18-1/2" x 9" DEEP STAINLESS STEEL SINK	SINGLE COMPARTMENT THREE HOLE PUNCHED UNDERMOUNT SINK	CHICAGO FAUCET 786-GN8AE3VPCABCP DUAL HANDLE FAUCET WITH SWING GOOSENECK SPOUT AND WRISTBLADE HANDLES.	2.2 GPM	BASKET STRAINER OFFSET P-TRAP ANGLE SUPPLIES WITH STOPS	
S-2	ELKAY ECTRU21179T 22-1/2" x 18-1/2" x 9" DEEP STAINLESS STEEL SINK	SINGLE COMPARTMENT FOUR HOLE PUNCHED UNDERMOUNT SINK	CHICAGO FAUCET 200-AGN8AE35-317AB DUAL HANDLE FAUCET WITH SWING GOOSENECK SPOUT AND WRISTBLADE HANDLES, AND SIDE SPRAY	1.5 GPM	BASKET STRAINER OFFSET P-TRAP ANGLE SUPPLIES WITH STOPS	
PT-1	SLOAN EL-154 TRANSFORMER	120 V INPUT, 24V OUTPUT			FOR FLUSH VALVES	
PT-2	DELTA 060704A TRANSFORMER	110 VAC INPUT 24 VAC OUTPUT			TRANSFORMER CAN POWER UP TO 5 LAVATORIES	
WC-1	SLOAN ST-2459 VITREOUS CHINA TOILET	WALL HUNG 1 1/2" TOP STUD SIPHON JET FLUSH ADA HEIGHT	SLOAN ROYAL 111 ESS-1.6-TMO-HW HARDWIRED, SENSOR OPERATED FLUSH VALVE WITH TRUE MECHANICAL OVERRIDE	1.6 GPF	OPEN FRONT SEAT, LESS COVER, WITH CHECK HINGES HEAVY DUTY WALL CARRIER SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT.	WHITE SEAT AND FIXTURE
VB-1	GUY GRAY FRIB12ABSHA ICE MAKER OUTLET BOX	1/2" SWEAT CONNECTION FIRE RATED RESIN CONSTRUCTION			INCLUDES QUARTER TURN VALVE AND WATER HAMMER ARRESTORS	

NOTES:

1. IN GENERAL, REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF ALL FIXTURES. CONTRACTOR TO CONFIRM WHICH FIXTURES ARE TO COMPLY WITH THE REQUIREMENTS OF ADA PRIOR TO ROUGH-IN OF PIPING AND INSTALL ALL PIPING AND FIXTURES AS REQUIRED PER ADA.
2. ALL FLUSH VALVES SHALL BE ROUGHED IN TO MEET ADA REQUIREMENTS AS IF THEY ARE A MANUAL VALVE, EVEN WHERE ELECTRONIC VALVES ARE SPECIFIED. THIS ALLOWS THE OWNER THE FLEXIBILITY TO USE EITHER MANUAL OR ELECTRONIC VALVES IN THE FUTURE AND REMAIN IN ADA COMPLIANCE WITHOUT REQUIRING PIPING MODIFICATIONS.
3. FAUCETS AND FLUSH VALVES TO BE CHROME UNLESS NOTED OTHERWISE.

PLUMBING FIXTURE CONNECTION SCHEDULE

ITEM NO.	DESCRIPTION OF PLUMBING FIXTURE	CONNECTIONS			
		CW	HW	WASTE	VENT
FD-1	FLOOR DRAIN (NOTE 2)	-	-	3"	2"
L-1	LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"
S-1,2	SINK	1/2"	1/2"	2"	1 1/2"
WC-1	WATER CLOSET	1"	-	4"	2"
VB-1	ICE MAKER	1/2"	-	-	-

NOTES:

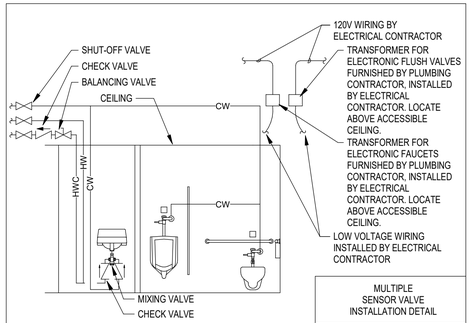
1. CW AND HW SUPPLY PIPING TO BE A MINIMUM OF 3/4"; WHERE SMALLER CONNECTION SIZE IS SCHEDULED, REDUCTION IN PIPE SIZE TO BE MADE WITHIN 10 FEET OF FIXTURE.
2. FLOOR DRAIN CONNECTIONS TO BE AS SCHEDULED UNLESS NOTED OTHERWISE ON PLANS.

NATURAL GAS PRESSURE REGULATOR SCHEDULE

PLAN MARK	SERVICE	FLOW CAPACITY (CFH)	INLET PRESSURE (PSI)	OUTLET PRESSURE (PSI)	VALVE SIZE (IN)	MANUFACTURER/ MODEL # (NOTE 1)
REG-1	RTU - 1B, 29, 30, 32, 33	600	2	0.5	1 1/2	325-7AL

NOTES:

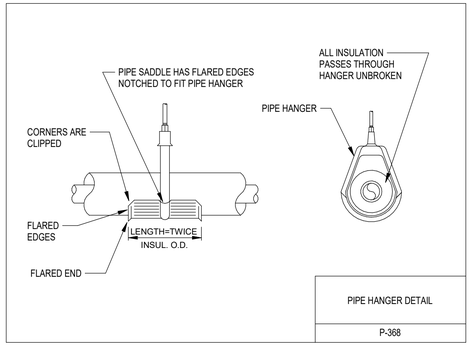
1. VALVE PERFORMANCE BASED ON MAXITROL. REFER TO SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.



NOTE: SEE PLANS FOR FIXTURES AND QUANTITIES

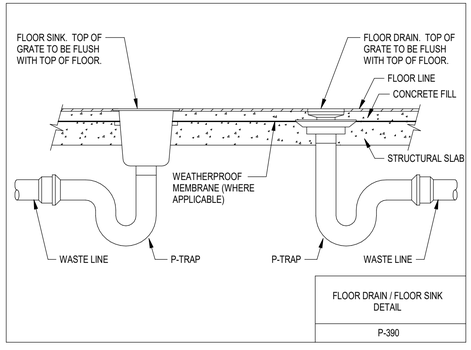
MULTIPLE SENSOR VALVE INSTALLATION DETAIL

P-716B



PIPE HANGER DETAIL

P-368



FLOOR DRAIN / FLOOR SINK DETAIL

P-390

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION ISSUE DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

Plumbing Schedules and Details

DATE
07.23.2026

DRAWING NUMBER
P500

BID SET

PROJECT NUMBER
25030

HVAC ABBREVIATIONS

(NOTE: ALL ABBREVIATIONS SHOWN MAY NOT BE REQUIRED FOR THIS PROJECT)

*** ABBREVIATIONS ***

AB	AIR BLENDER
ACB	ACTIVE CHILLED BEAM
ACH	AIR CHANGES/HR
AC/ACS	UNIT AIR CONDITIONER
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AS/ASU	AIR SEPARATOR UNIT
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BC/BCU	BLOWER COIL UNIT
BEF	BUILDING EXHAUST FAN
BFF	BELOW FINISHED FLOOR
BP	BOILER PUMP
BT	BUFFER TANK
BTU	BRITISH THERMAL UNIT
C	CONDENSER
CB	CHILLED BEAM
CCFC	CLOSED CIRCUIT FLUID COOLER
CCP	COIL CIRCULATING PUMP
CDP	CONDENSATE PUMP
CFM	CUBIC FEET/MIN
CH/CHL	CHILLER
CHWP	CHILLED WATER PUMP
CP/CDP	CONDENSING PUMP
CRAC	COMPUTER ROOM AIR CONDITIONING
CRP	CONDENSATE RETURN PUMP
CT/CTW	COOLING TOWER
CU/RCU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONVECTOR
CWP	CONDENSER WATER PUMP
DDC	DIRECT DIGITAL CONTROL
EBH	ELECTRIC BASEBOARD HEATER
ECM	ELECTRICALLY COMMUTATED MOTOR
ECUH	ELECTRIC CABINET UNIT HEATER (NO HYDRONIC)
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EH	EXHAUST HOOD
ERU	ENERGY RECOVERY UNIT
ERV	ENERGY RECOVERY VENTILATOR
ET/ETK	EXPANSION TANK
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER (NO HYDRONIC)
EVAV	EXHAUST VARIABLE AIR VOLUME TERMINAL UNIT
F/FUR	FURNACE
FCU	FAN COIL UNIT
FHAV	FUME HOOD AIR VALVE
FLA	FULL LOAD AMPS
FOP	FUEL OIL TRANSFER PUMP
FPM	FEET PER MINUTE
FT	FINNED TUBE (RADIATION HEATING)
FTK	FLASH TANK
FWE	FURNISHED WITH EQUIPMENT
GEN	GENERATOR
GT	GLYCOL TANK
GHWP	GLYCOL HOT WATER PUMP
GPM	GALLONS PER MINUTE
GWP	GEOTHERMAL WATER PUMP
HC	HEATING COIL
HEF	HOOD EXHAUST FAN
HP	HEAT PUMP - WATER TO AIR
HRP	HEAT RECOVERY PUMP
HRU	HEAT RECOVERY UNIT
HUM	HUMIDIFIER
HVLS	HIGH VOLUME LOW SPEED FAN
HWP	HOT WATER PUMP
HX/HXU	HEAT EXCHANGER UNIT
IH	INTAKE HOOD
IP	INTERNET PROTOCOL
KEH	KITCHEN EXHAUST HOOD
LEAV	LAB EXHAUST AIR VALVE
LSAV	LAB SUPPLY AIR VALVE
LV	LOUVER
MAF	MAKE UP AIR FAN
MAU	MAKE-UP AIR UNIT
MCA	MINIMUM CIRCUIT AMPACITY
MFS	MAX FUSE SIZE
MOP/MOPD/ MOCPD	MAX OVER-CURRENT PROTECTIVE DEVICE
NAE	NETWORK AUTOMATION ENGINE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
PH	PHASE
POE	POWER OVER ETHERNET
PRV	PRESSURE REDUCING VALVE
PTAC	PACKAGED TERMINAL AIR CONDITIONER
RCP	RADIANT HEATING CEILING PANEL
REF	ROOM EXHAUST FAN
RF	RETURN FAN
RFZ	RADIANT FLOOR ZONE
RH	RELIEF HOOD
RHB	RADIANT HEAT BURNER
RHC	REHEAT COIL
RHCP	RADIANT HEATING/COOLING CEILING PANEL
RHU	RADIANT HEATING UNIT
RLA	RUNNING LOAD AMPS
RTK	RECEIVER TANK
RTU	ROOF TOP UNIT
RWP	RECIRCULATING PUMP
SA	SOUND ATTENUATOR
SAR	SOUND ATTENUATOR - RETURN FAN
SAS	SOUND ATTENUATOR - SUPPLY FAN
SEF	SMOKE EXHAUST FAN
SF	SUPPLY FAN
SMZ	SNOW MELT ZONE
SPF	STAIR PRESSURIZATION FAN
ST	STEAM TRAP
SVAV/STAB/ VAV	SUPPLY VARIABLE AIR VOLUME TERMINAL UNIT
SWH	STEAM WATER HEATER
TAB	TESTING & BALANCING
TU	TERMINAL UNIT
UH/UHU	UNIT HEATER
UV/UVE	ULTRAVIOLET EMITTER
UV/UVU	UNIT VENTILATOR
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW SYSTEM
VVT	VARI TRAC VARIABLE AIR VOLUME DAMPER
W	WATTS
WHP	HEAT PUMP - WATER-TO-WATER

HVAC SYMBOLS

(NOTE: ALL SYMBOLS SHOWN MAY NOT BE REQUIRED FOR THIS PROJECT)

*** EQUIPMENT ***

EQUIPMENT PLAN MARK PER EQUIPMENT SCHEDULE
XX = EQUIPMENT DESIGNATION
YY = EQUIPMENT NUMBER
Z = SYSTEM NUMBER

EQUIPMENT SERVICE CLEARANCE

*** SHEET METAL ***

MANUAL VOLUME DAMPER

FD = FIRE DAMPER
SD = SMOKE DAMPER
FSD = COMBINATION FIRE/SMOKE DAMPER (TRIANGLE INDICATES ANTICIPATED ACCESS LOCATION OR ACTUATOR PLACEMENT, COORDINATE WITH FIELD CONDITIONS)

TRANSITION PIECE

MITERED ELBOW WITH SINGLE THICKNESS TURNING VANES

RADIUSED ELBOW
R = 1.0 x W (DEFAULT)
R = 1.5 x W AS SHOWN OR NOTED (REFER TO DETAILS, PLAN AND SPEC.)

GRILLE OR DIFFUSER ON SIDE OF DUCT

MOTOR OPERATED DAMPER

DIFFUSER OR GRILLE BELOW DUCT

PITCH DOWN IN DIRECTION OF ARROW

FLEX DUCTWORK

DUCT ACCESS DOOR

SUPPLY (CONDITIONED) AIR DUCT
SOLID CROSS - UP/TOWARDS
DASHED CROSS - DOWN/AWAY

EXHAUST OR RELIEF AIR DUCT
SOLID CROSS - UP/TOWARDS
DASHED CROSS - DOWN/AWAY

RETURN OR TRANSFER AIR DUCT
SOLID CROSS - UP/TOWARDS
DASHED CROSS - DOWN/AWAY

UNCONDITIONED OUTDOOR AIR DUCT
SOLID CROSS - UP/TOWARDS
DASHED CROSS - DOWN/AWAY

*** CONTROLS ***

SPACE SENSOR
(REFER TO CONTROL SCHEMATICS AND SPECIFICATIONS)
T = TEMPERATURE SENSOR WITH SETPOINT ADJUSTMENT
T* = TEMPERATURE SENSOR ONLY
H = HUMIDITY SENSOR
CO = CARBON DIOXIDE SENSOR
CO = CARBON MONOXIDE SENSOR
NG = NATURAL GAS SENSOR
NO$_2$ = NITROGEN DIOXIDE SENSOR
VO = VENTILATION OVERRIDE BUTTON
$ = SWITCH WITH PILOT LIGHT
B = PUSH BUTTON

*** PIPING SPECIALTIES ***

PUMP
ELBOW TURNED UP OR TOWARDS
ELBOW TURNED DOWN OR AWAY
TEE TURNED UP OR TOWARDS
TEE TURNED DOWN OR AWAY
DROP OR RISE
ARROW IN LINE INDICATES DIRECTION OF FLOW
CAP OR PLUG
STRAINER
UNION
DIELECTRIC UNION
SHUT-OFF VALVE
BALANCING OR SHUT-OFF COCK
AUTOMATIC CONTROL VALVE
RELIEF OR SAFETY VALVE
PRESSURE REDUCING VALVE
CHECK VALVE
BACKFLOW PREVENTER
VALVE IN RISER
3-WAY AUTOMATIC CONTROL VALVE
PRESSURE-TEMPERATURE TEST PORT
CONNECTION - NEW TO EXISTING
THERMOMETER
PRESSURE GAUGE
PRESSURE SENSOR
DIFFERENTIAL PRESSURE SENSOR

*** SHEET METAL ABBREVIATIONS ***
SA = SUPPLY AIR
RA = RETURN AIR
TA = TRANSFER AIR
EA = EXHAUST AIR
OA = OUTDOOR AIR

*** DUCT SIZE NOMENCLATURE ***
(ALL SIZES IN INCHES)
x = RECTANGULAR (e.g. 24x12)
/ = OVAL (e.g. 24/12)
ø = ROUND (e.g. 24ø)

*** REFERENCE ***
ELECTRICAL PANEL SHOWN FOR COORDINATION
SMOKE DETECTOR IN DUCT SHOWN FOR COORDINATION

*** PIPING ABBREVIATIONS ***

D	CONDENSATE DRAIN LINE
RSH/RSL/RL	REFRIGERANT HIGH GAS, LOW GAS, AND LIQUID
RS/RL	REFRIGERANT SUCTION GAS AND LIQUID
RS	REFRIGERANT SUCTION GAS
RL	REFRIGERANT LIQUID
RHG	REFRIGERANT HOT GAS
RR	REFRIGERANT RELIEF

GENERAL MECHANICAL DEMOLITION NOTES:

1. REFER TO DEMOLITION KEY FOR ITEMS TO BE REMOVED VERSUS ITEMS TO REMAIN.
2. SHUT DOWN OF EXISTING HVAC SYSTEMS TO BE REQUESTED AND COORDINATED THROUGH OWNER'S REPRESENTATIVE IN ACCORDANCE WITH DIVISION 00 AND 01 SPECIFICATIONS.
3. SCHEDULE FOR ALL WORK IMPACTING ADJACENT OCCUPIED AREAS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE. WORK TO BE PERFORMED IN A MANNER THAT MINIMIZES THE INTERRUPTIONS AND INCONVENIENCE TO THE OWNER'S OCCUPANCY OF THESE SPACES.
4. NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO CREATING ANY SMOKE, HEAT, MOISTURE, VAPORS OR DUST AROUND ANY FIRE ALARM EQUIPMENT.
5. WHERE DUCTWORK OR PIPING THROUGH A FLOOR OR A WALL IS REMOVED, PATCH ALL REMAINING HOLES TO MATCH EXISTING.
6. WHERE EXISTING DUCTWORK IS ONLY PARTIALLY REMOVED, ALL OPENINGS ON EXISTING DUCTWORK TO REMAIN SHALL BE CAPPED/COVERED UNTIL NEW DUCTWORK IS CONNECTED.
7. UNLESS SPECIFICALLY NOTED OTHERWISE, WHERE EQUIPMENT IS INDICATED TO BE REMOVED, DEMOLITION WORK SHALL INCLUDE REMOVAL OF ASSOCIATED CONCRETE EQUIPMENT PAD AND/OR SUPPORT STEEL AND HANGERS.
8. WHERE CONTROL DEVICES ARE REMOVED FROM SERVICE, ASSOCIATED CONTROL WIRING SHALL ALSO BE REMOVED.
9. FOR ALL WORK REQUIRED ABOVE EXISTING CEILINGS TO REMAIN, (EITHER WITHIN OR OUTSIDE THE PROJECT AREA) CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF ALL CEILING TILE AS REQUIRED TO ACCOMPLISH THE WORK. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR TYPES AND EXTENT OF BOTH EXISTING AND NEW CEILINGS THROUGHOUT PROJECT.

GENERAL MECHANICAL NOTES:

1. DRAWINGS ARE IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK, AND TO INDICATE THE GENERAL LOCATIONS OF EQUIPMENT, PIPING AND DUCTWORK. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT THEIR OWN WORK ACCORDING TO THE FOLLOWING GUIDELINES:
   a. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS FOR EQUIPMENT AND ROUGH INS AND THE EXACT ROUTING OF PIPING AND DUCTS PRIOR TO CONSTRUCTION SO AS TO BEST FIT THE LAYOUT OF THE WORK. SPACE ABOVE CEILINGS IS EXTREMELY LIMITED; COORDINATE FINAL LAYOUT WITH ALL TRADES.
   b. WHERE OFFSETS IN PIPING OR DUCTWORK ARE REQUIRED TO COORDINATE THE WORK OF OTHER TRADES, WITH STRUCTURE, PIPING, CONDUIT, DUCTWORK ETC., OR TO MAINTAIN REQUIRED CEILING HEIGHTS, THEY SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
   c. ALL EXISTING PIPING AND DUCTWORK ROUTING SHOWN IS INTENDED TO INDICATE APPROXIMATE SIZE, NUMBER AND LOCATION OF PIPING BRANCHES FOR BIDDING PURPOSES ONLY. CONTRACTOR TO VERIFY EXACT SIZE, SERVICE, LOCATION AND CONFIGURATION PRIOR TO CONSTRUCTION.
   d. UNLESS OTHERWISE NOTED, ALL DUCTWORK AND PIPING TO BE ROUTED CONCEALED IN WALLS, CHASES OR ABOVE SUSPENDED CEILING. WATER PIPING SHALL NOT BE ROUTED IN EXTERIOR WALLS. COORDINATE LAYOUT WITH EXISTING CONDITIONS AND ALL OTHER TRADES. ROUTE ALL PIPING AND DUCTWORK AS HIGH AS POSSIBLE AND ALONG WALLS TO MAXIMIZE SPACE AVAILABLE FOR OTHER TRADES.
   e. COORDINATE ROUTING OF PIPING AND DUCTWORK TO MAINTAIN ACCESS TO FILTERS, MOTORS, ELECTRICAL EQUIPMENT, AND CONTROLS. IN NO CASE, SHALL PIPING OR DUCTWORK PASS DIRECTLY OVER ELECTRICAL PANELS OR DISCONNECTS OR RESTRICT ACCESS TO ANY ELECTRICAL EQUIPMENT INCLUDING JUNCTION BOXES.
   f. COORDINATE EXACT DUCTWORK CONNECTION SIZES WITH EQUIPMENT AND TRANSITION AS REQUIRED.
   g. VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING SYSTEMS AND COMPONENTS REQUIRING CONNECTION TO NEW PIPING PRIOR TO COMMENCING WORK.
2. CUT AND PATCH WALLS AND FLOORS AS REQUIRED FOR INSTALLATION OF NEW SYSTEMS.
   a. ALL OPENINGS IN CONCRETE OR MASONRY CONSTRUCTION SHALL BE CORE DRILLED OR SAW CUT. COORDINATE WITH STRUCTURE AND GENERAL CONTRACTOR AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY AND MINIMIZE SIZE OF OPENINGS.
   b. SEAL AROUND ALL DUCTWORK AND PIPING PENETRATIONS WITH NON-SHRINK GROUT OR SIMILAR MATERIAL. WHERE PENETRATIONS ARE IN FIRE RATED CONSTRUCTION, PROVIDE FIRE STOP TO MATCH THE FIRE RATING. REFER TO ARCHITECTURAL PLANS FOR REQUIRED FIRE RATINGS. SEE DIVISION 07 SPECIFICATIONS FOR FIRE STOPPING REQUIREMENTS.
   c. PATCH AND FIRE STOP ALL ABANDONED EXISTING OPENINGS.
   d. MECHANICAL CONTRACTOR SHALL PROVIDE LINTELS FOR DUCT PENETRATIONS OF EXISTING WALLS AS REQUIRED TO SUPPORT STRUCTURE. COORDINATE WITH GENERAL CONTRACTOR.
   e. WHEN PATCHING OPENINGS IN AREAS WHICH ARE NOT TO RECEIVE NEW FINISHES, PATCHING SHALL MATCH ADJACENT FINISH.
   f. REFER TO ARCHITECTURAL PLANS FOR INFORMATION ON WHICH PORTIONS OF THE EXISTING STRUCTURE ARE TO BE REMOVED AND WHICH ARE TO REMAIN AS WELL AS WHICH AREAS ARE TO RECEIVE NEW FINISHES.
3. BECAUSE OF THE SCALE OF THE DRAWINGS, CERTAIN PIPING OR ITEMS SUCH AS UNIONS, FITTINGS, OR VALVES MAY NOT BE SHOWN, BUT WHERE SUCH ITEMS ARE REQUIRED BY CODE, THE SPECIFICATIONS, OR WHERE THEY ARE REQUIRED BY THE NATURE OF THE WORK, THEY SHALL BE FURNISHED AND INSTALLED.
4. ALL ELEMENTS OF THE CONSTRUCTION SHALL BE PERFORMED BY TRADES PEOPLE SKILLED IN THE PARTICULAR CRAFT INVOLVED, AND REGULARLY EMPLOYED IN THAT PARTICULAR CRAFT. ALL WORK SHALL BE PERFORMED IN A NEAT, PROFESSIONAL MANNER IN KEEPING WITH THE HIGHEST STANDARDS OF THE CRAFT.
5. COORDINATE INSTALLATION OF EQUIPMENT AND COMPONENTS PENETRATING THE EXTERIOR BUILDING ENVELOPE WITH GENERAL CONTRACTOR. ALL ITEMS PENETRATING THE ROOF ARE TO BE INSTALLED AS PER ROOFING MANUFACTURER REQUIREMENTS.
6. COORDINATE LOCATIONS AND SIZES OF OPENINGS IN STRUCTURE WITH GENERAL CONTRACTOR. WHEN ADDITIONAL CUTTING AND PATCHING IS REQUIRED DUE TO MECHANICAL CONTRACTOR'S FAILURE TO COORDINATE THIS WORK, IT SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE ADDITIONAL CUTTING AND PATCHING. SEAL AND/OR FIRE STOP ALL PENETRATIONS AS REQUIRED.
7. THE SPACE ABOVE CEILINGS IN ALL AREAS IS EXTREMELY LIMITED AND COORDINATION OF WORK IS MANDATORY.
8. MECHANICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED SUPPORT STEEL FOR PIPING, DUCTWORK AND EQUIPMENT.
9. DUCT DIMENSIONS SHOWN ON DRAWINGS ARE NET INSIDE DIMENSIONS. INCREASE SHEET METAL SIZE FOR LINED DUCTWORK TO ALLOW FOR INTERNAL INSULATION IF APPLICABLE.
10. PROVIDE VOLUME DAMPERS IN ALL DUCTWORK SERVING INDIVIDUAL GRILLES, REGISTERS, OR DIFFUSERS FOR BALANCING. DAMPERS TO BE INSTALLED AS CLOSE TO TAKE-OFF AS POSSIBLE. DAMPERS AT GRILLES, REGISTERS, OR DIFFUSERS ARE NOT ACCEPTABLE UNLESS OTHERWISE NOTED.
11. PROVIDE REMOTE REGULATORS FOR ALL INACCESSIBLE VOLUME DAMPERS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
12. IF DUCT SIZE REVISIONS ARE NECESSARY FOR COORDINATION PURPOSES ETC. NEW DUCT SIZE SHALL BE EQUIVALENT TO THE DUCT SIZE INDICATED ON PLANS.
13. ALL CONTROL WIRING IN FINISHED SPACES IS TO BE ROUTED CONCEALED IN WALLS OR ABOVE CEILINGS UNLESS SPECIFICALLY NOTED OTHERWISE. CONCEALED CONTROL WIRING WHERE ACCESSIBLE MAY BE INSTALLED WITHOUT CONDUIT. ALL CONCEALED CONTROL WIRING WHICH IS NOT ACCESSIBLE SHALL BE ROUTED IN CONDUIT. CONTROL WIRING IN UNFINISHED SPACES MAY BE ROUTED EXPOSED BUT SHALL BE IN CONDUIT.
14. ALL CONTROL DEVICES TO BE MOUNTED AT +46" A.F.F. TO CENTER LINE.
15. ALL CONTROL DEVICES LOCATED IN VESTIBULES, RESTROOMS, CORRIDORS, AND OTHER GENERAL PUBLIC AREAS, TO BE PROVIDED WITH LOCKING CLEAR PLASTIC GUARD.
16. SHUT DOWN OF EXISTING HVAC SYSTEMS TO BE REQUESTED AND COORDINATED THROUGH OWNER'S REPRESENTATIVE IN ACCORDANCE WITH DIVISION 00 AND 01 SPECIFICATIONS.
17. REFER TO ARCHITECTURAL PLANS FOR DETAILED ELEVATIONS INDICATING STANDARD MOUNTING HEIGHTS, LOCATIONS AND ALIGNMENT REQUIREMENTS FOR ALL WALL MOUNTED DEVICES AND REFLECTED CEILING PLANS FOR ALL CEILING MOUNTED DEVICES
18. FOR ALL WORK REQUIRED ABOVE EXISTING CEILINGS TO REMAIN, (EITHER WITHIN OR OUTSIDE THE PROJECT AREA) CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF ALL CEILING TILE AS REQUIRED TO ACCOMPLISH THE WORK. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR TYPES AND EXTENT OF BOTH EXISTING AND NEW CEILINGS THROUGHOUT PROJECT.
19. COORDINATE INSTALLATION OF DUCTWORK RUNNING THROUGH OR BETWEEN TRUSSES AND JOISTS WITH GENERAL CONTRACTOR PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL STEEL. ITEMS TO COORDINATE INCLUDE, BUT ARE NOT LIMITED TO, OPENINGS IN AND BRACING BETWEEN TRUSSES AND JOISTS.
20. LOW VELOCITY RECTANGULAR LINED DUCTWORK AS SHOWN ON THE PLANS HAS BEEN LAID OUT TO MAXIMIZE SOUND ATTENUATION AND SHALL BE INSTALLED AS SUCH; ANY DEVIATIONS FROM RECTANGULAR LINED DUCTWORK AS SHOWN TO ROUND, WRAPPED DUCTWORK SHALL BE REVIEWED WITH THE DESIGN PROFESSIONAL PRIOR TO INSTALLATION.
21. ALL VVT TERMINAL UNITS SHALL BE CLEARLY LABELED IN THE FIELD WITH THE PLAN MARK DESIGNATION

HVAC DEMOLITION KEYED NOTES

MD-1	REMOVE EXISTING THERMOSTAT FOR RELOCATION.
MD-2	REMOVE EXISTING ROOFTOP UNIT, EXISTING CURB TO REMAIN FOR PLACEMENT OF NEW ROOFTOP UNIT WITH CURB ADAPTER.
MD-3	REMOVE EXISTING ROOFTOP UNIT AND EXISTING CURB.
MD-4	DEMO EXISTING DIFFUSER (TYP).

HVAC KEYED NOTES

M-1	INSTALL EXISTING SALVAGED THERMOSTAT AT NEW LOCATION.
M-2	RE-BALANCE EXISTING ROOF MOUNTED EXHAUST FAN (REPLACE SHEAVE/BELT) TO ACCOMMODATE ADDITIONAL AIRFLOW REQUIREMENTS.
M-3	INSTALL NEW DIFFUSER IN SAME LOCATION (TYP).

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.062.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

Mechanical Notes and Symbols

DATE
07.23.2026

DRAWING NUMBER
M000

BID SET

PROJECT NUMBER
25030

KEYED NOTES	
MD-1	REMOVE EXISTING THERMOSTAT FOR RELOCATION.
MD-4	DEMO EXISTING DIFFUSER (TYP).

1 MD121.A DUCTWORK DEMOLITION PLAN - LEVEL 1 - Area A (Southwest)
1/8" = 1'-0"

DEMOLITION KEY
- EXISTING TO REMAIN
- TO BE REMOVED / NEW REVISED
- EXISTING TO REMAIN
- EQUIPMENT TO BE REMOVED
- NEW REVISED EQUIPMENT

KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

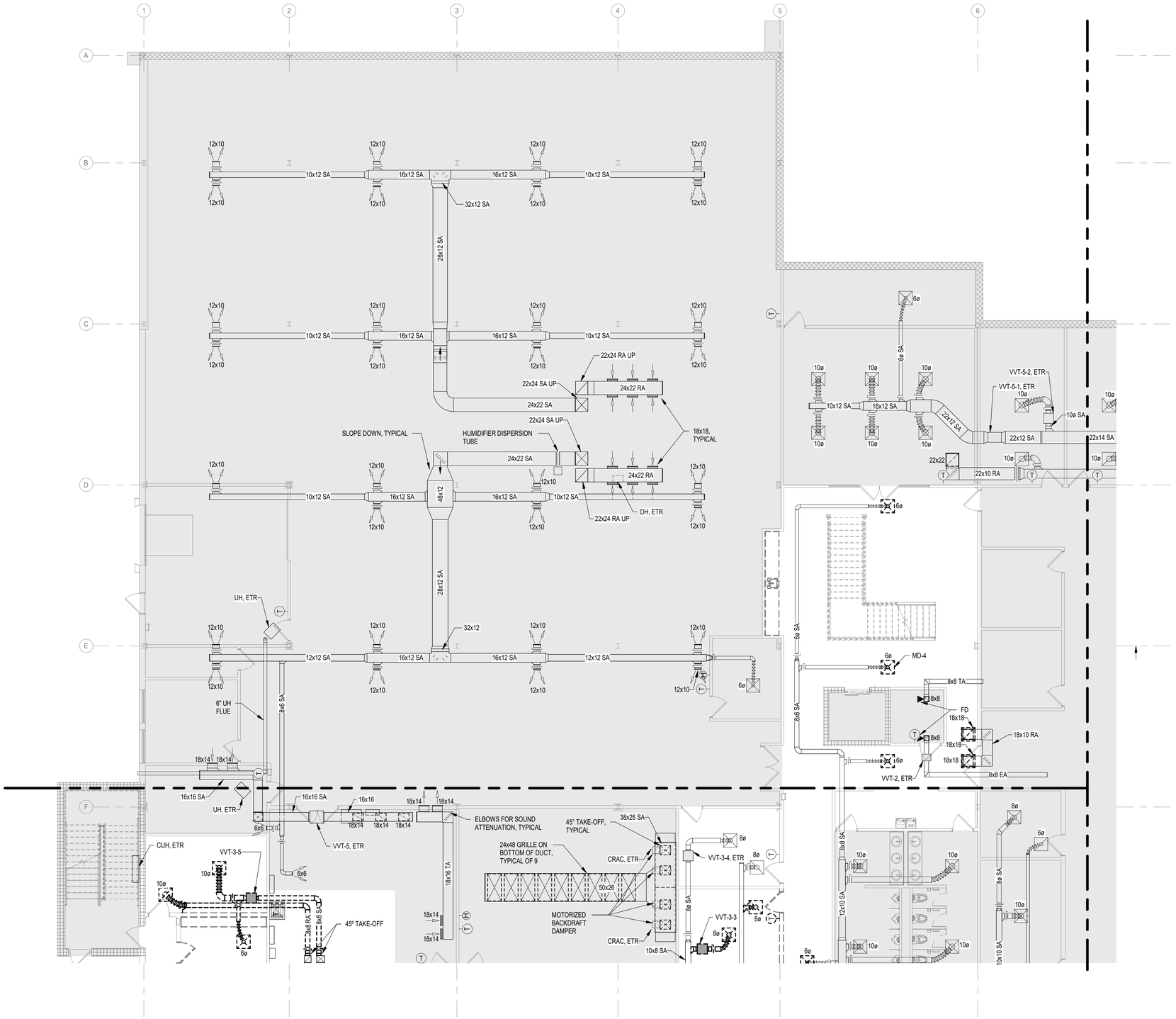
All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Ductwork Demolition Plan - Level 1 - Area A

DATE 07.23.2026
DRAWING NUMBER MD121.A
PROJECT NUMBER 25030
BID SET



KEYED NOTES	
MD-4	DEMO EXISTING DIFFUSER (TYP).

1 MD121.B DUCTWORK DEMOLITION PLAN - LEVEL 1 - Area B (Northwest)
1/8" = 1'-0"

DEMOLITION KEY
- TO REMAIN
- TO BE REMOVED / REVISED
- EQUIPMENT TO REMAIN
- EQUIPMENT TO BE REMOVED / REVISED

KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

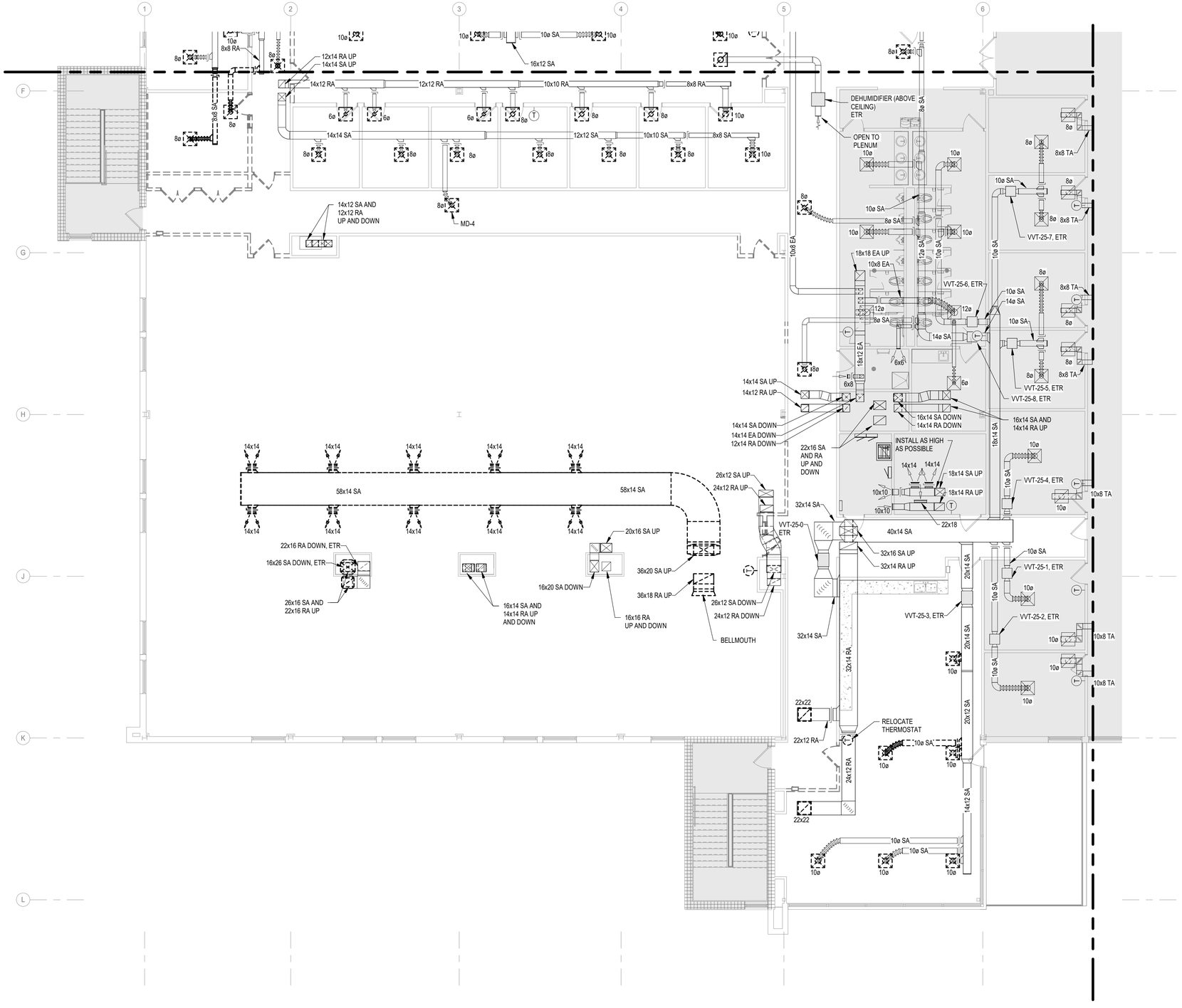
All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Ductwork Demolition Plan - Level 1 - Area B

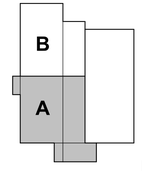
DATE 07.23.2026
DRAWING NUMBER MD121.B
BID SET
PROJECT NUMBER 25030



KEYED NOTES	
MD-4	DEMO EXISTING DIFFUSER (TYP).

1 MD122.A DUCTWORK DEMOLITION PLAN - LEVEL 2 - Area A (Southwest)
1/8" = 1'-0"

DEMOLITION KEY
- TO REMAIN
- TO BE REMOVED / REVISED
- EQUIPMENT TO REMAIN
- EQUIPMENT TO BE REMOVED / REVISED



KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

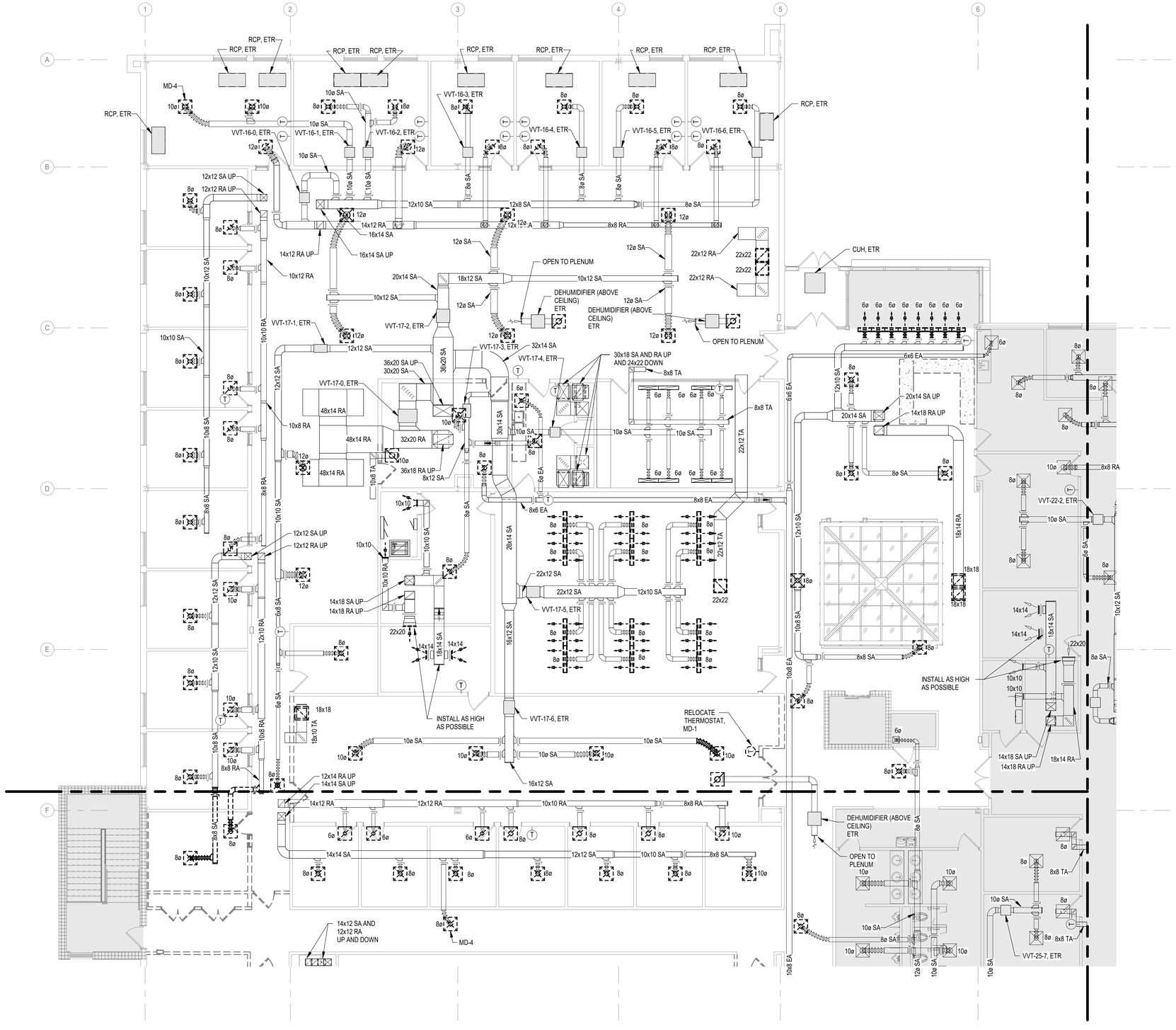
All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

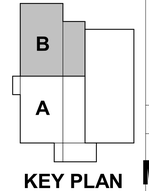
Kirkwood East Hall - Remodel
Ductwork Demolition Plan - Level 2 - Area A

DATE 07.23.2026
DRAWING NUMBER MD122.A
BID SET
PROJECT NUMBER 25030



KEYED NOTES	
MD-1	REMOVE EXISTING THERMOSTAT FOR RELOCATION.
MD-4	DEMO EXISTING DIFFUSER (TYP).

DEMOLITION KEY	
	TO REMAIN
	TO BE REMOVED / REVISED
	EQUIPMENT TO REMAIN
	EQUIPMENT TO BE REMOVED / REVISED



KEY PLAN

1 MD122.B DUCTWORK DEMOLITION PLAN - LEVEL 2 - Area B (Northwest)
1/8" = 1'-0"

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Ductwork Demolition Plan - Level 2 - Area B

DATE
07.23.2026
DRAWING NUMBER
MD122.B
PROJECT NUMBER
25030

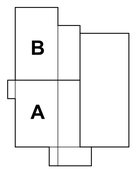
BID SET



1 MD133 OVERALL MECHANICAL DEMOLITION PLAN - ROOF
1/16" = 1'-0"

KEYED NOTES	
MD-2	REMOVE EXISTING ROOFTOP UNIT, EXISTING CURB TO REMAIN FOR PLACEMENT OF NEW ROOFTOP UNIT WITH CURB ADAPTER.
MD-3	REMOVE EXISTING ROOFTOP UNIT AND EXISTING CURB.

DEMOLITION KEY
- TO REMAIN
- TO BE REMOVED / REVISED
- EQUIPMENT TO REMAIN
- EQUIPMENT TO BE REMOVED / REVISED



KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

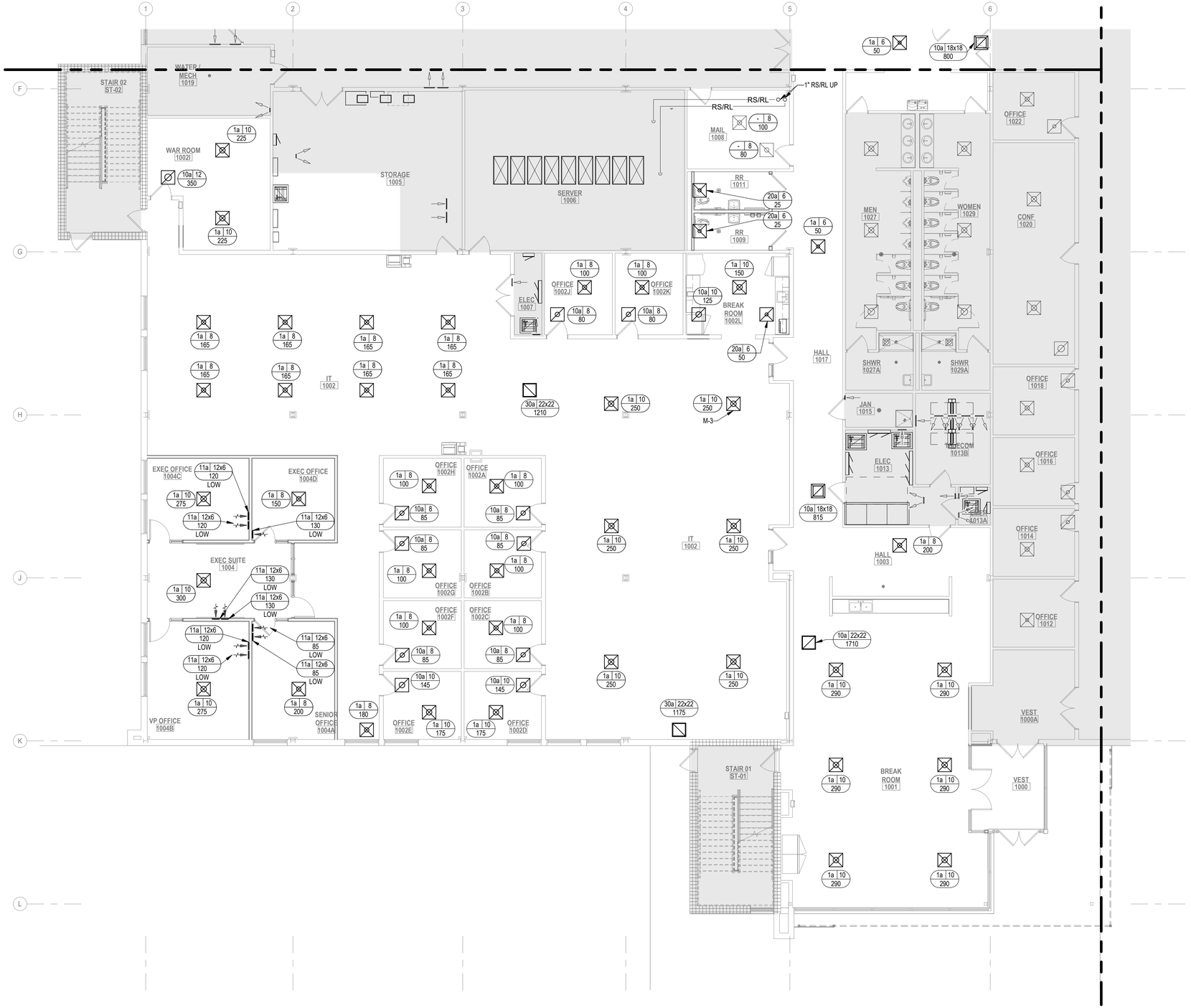
REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

Overall Mechanical Demolition Plan - Roof

DATE
07.23.2026
DRAWING NUMBER
MD133
BID SET
PROJECT NUMBER
25030



1 M111.A DIFFUSER PLAN - LEVEL 1 - Area A (Southwest)
1/8" = 1'-0"

KEYED NOTES	
M-3	INSTALL NEW DIFFUSER IN SAME LOCATION (TYP).

NEW WORK KEY
- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT

KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

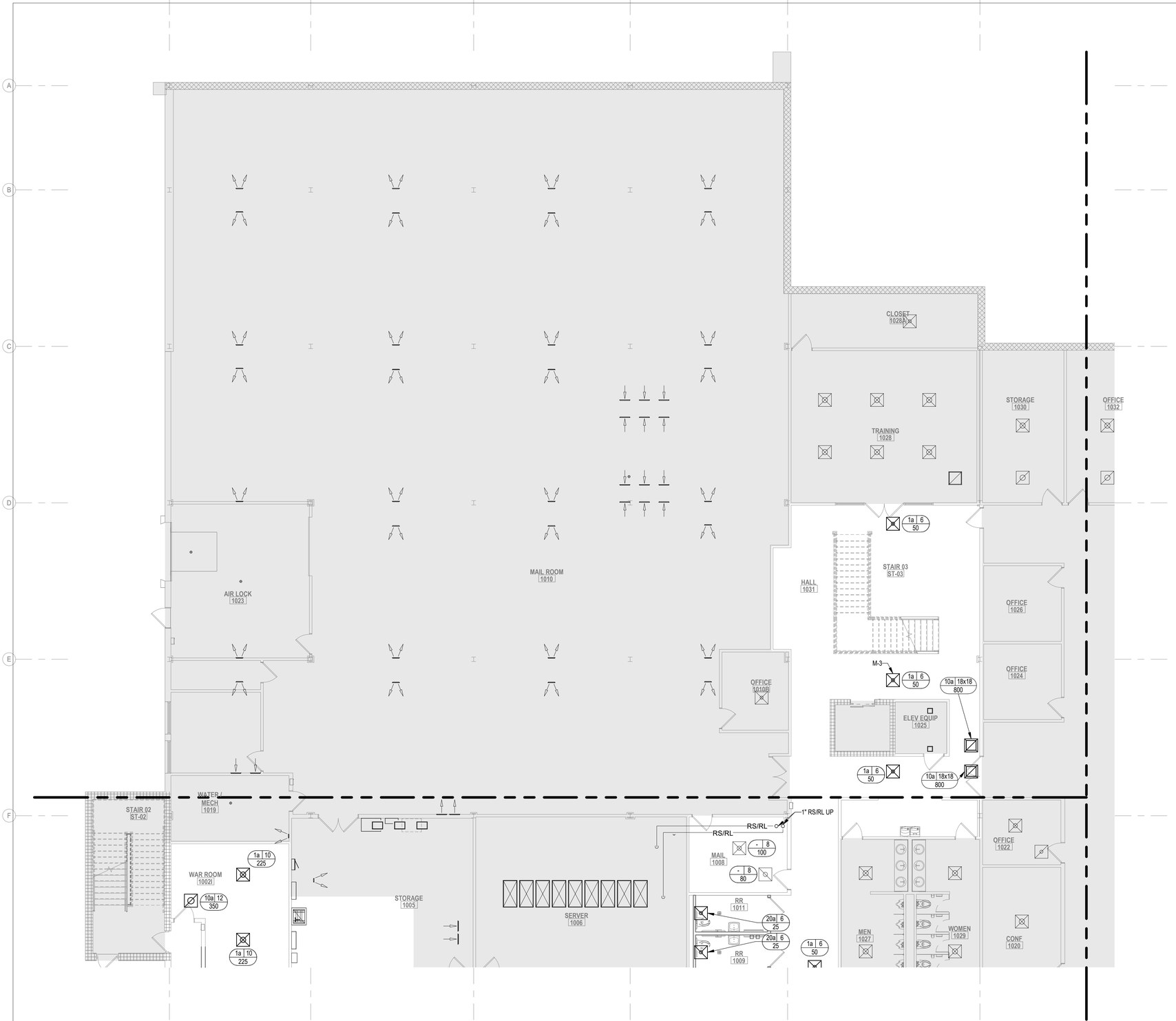
REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Diffuser Plan - Level 1 - Area A

DATE 07.23.2026
DRAWING NUMBER M111.A
PROJECT NUMBER 25030

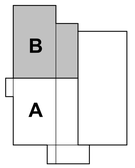
BID SET



KEYED NOTES	
M-3	INSTALL NEW DIFFUSER IN SAME LOCATION (TYP).

1 M111.B DIFFUSER PLAN - LEVEL 1 - Area B (Northwest)
1/8" = 1'-0"

NEW WORK KEY
- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT



KEY PLAN

BID SET

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Diffuser Plan - Level 1 - Area B

DATE
07.23.2026
DRAWING NUMBER
M111.B
PROJECT NUMBER
25030



1 M112.A DIFFUSER PLAN - LEVEL 2 - Area A (Southwest)
1/8" = 1'-0"

KEYED NOTES	
M-3	INSTALL NEW DIFFUSER IN SAME LOCATION (TYP).

NEW WORK KEY
- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT

KEY PLAN

SOLUM LANG ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

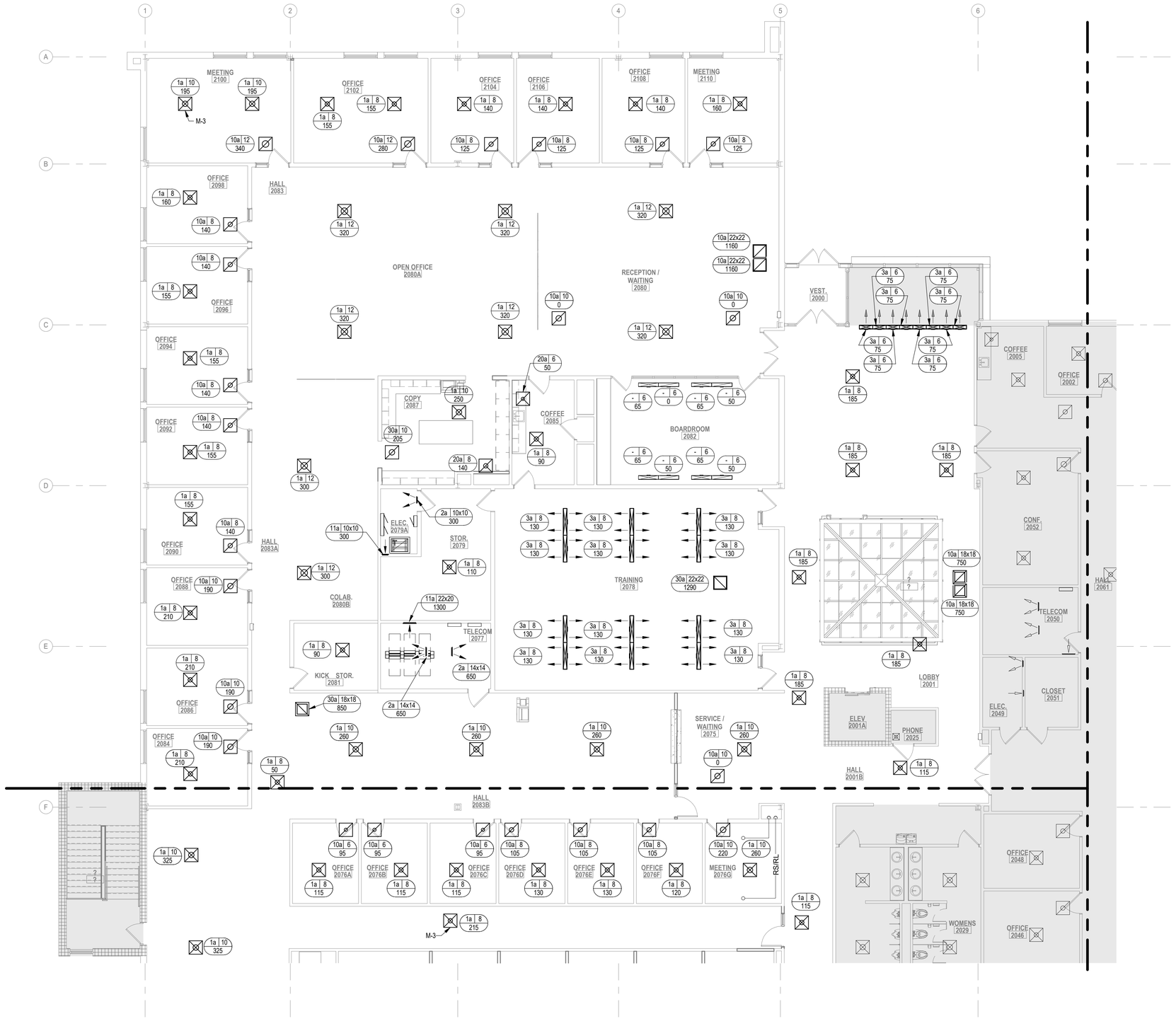
REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Diffuser Plan - Level 2 - Area A

DATE 07.23.2026
DRAWING NUMBER M112.A
PROJECT NUMBER 25030

BID SET



1 M112.B DIFFUSER PLAN - LEVEL 2 - Area B (Northwest)
1/8" = 1'-0"

N

KEYED NOTES	
M-3	INSTALL NEW DIFFUSER IN SAME LOCATION (TYP).

NEW WORK KEY
- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT

KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

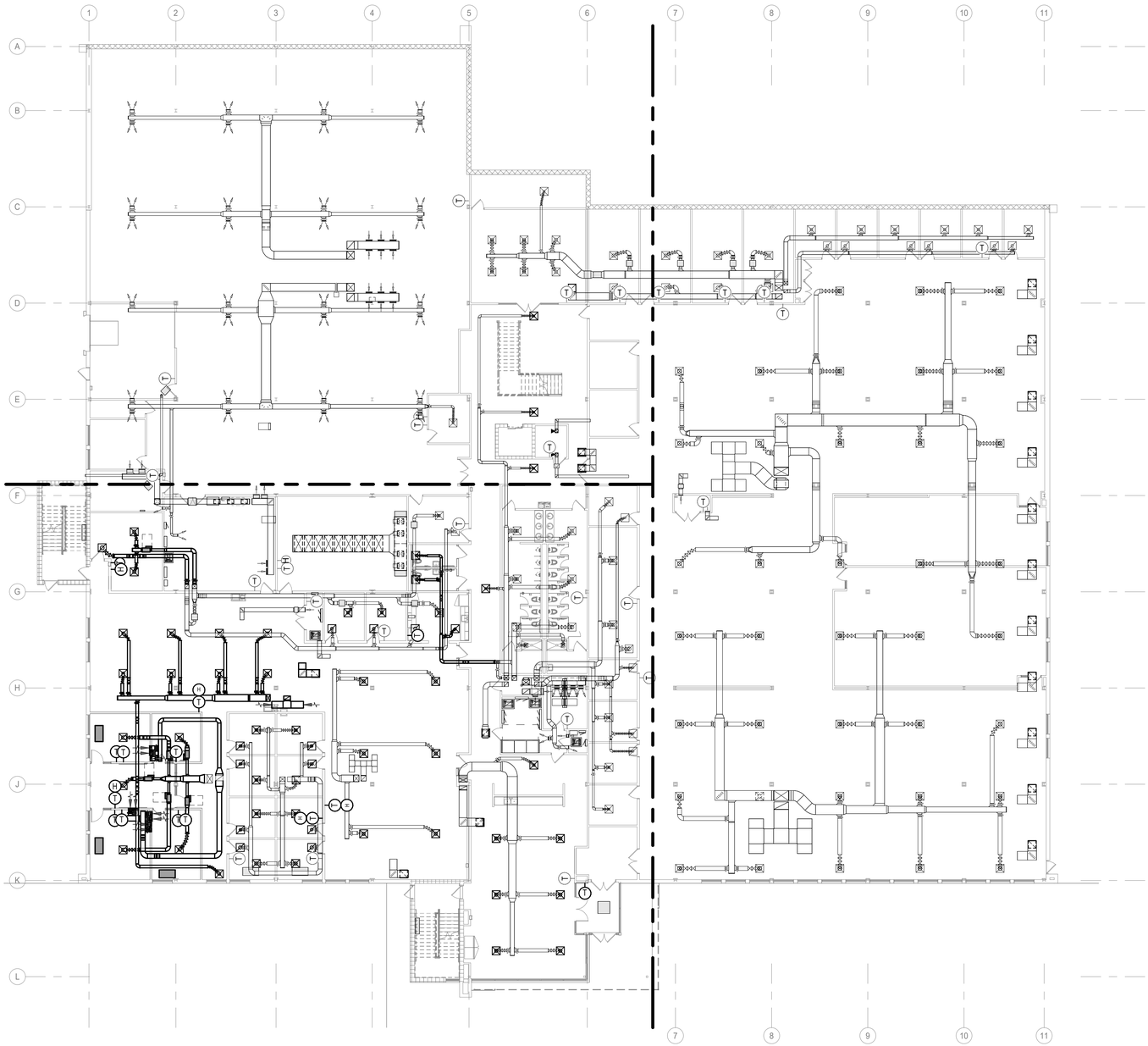
REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Diffuser Plan - Level 2 - Area B

DATE 07.23.2026
DRAWING NUMBER M112.B
PROJECT NUMBER 25030

BID SET

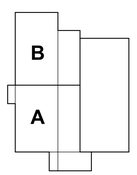


1 M121 OVERALL DUCTWORK PLAN - LEVEL 1
1/16" = 1'-0"

KEYED NOTES

NEW WORK KEY

- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT



KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

Overall Ductwork Plan - Level 1

DATE
07.23.2026

DRAWING NUMBER
M121

BID SET

PROJECT NUMBER
25030

KEYED NOTES	
M-1	INSTALL EXISTING SALVAGED THERMOSTAT AT NEW LOCATION.
M-3	INSTALL NEW DIFFUSER IN SAME LOCATION (TYP).

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

Ductwork Plan - Level 1 - Area A

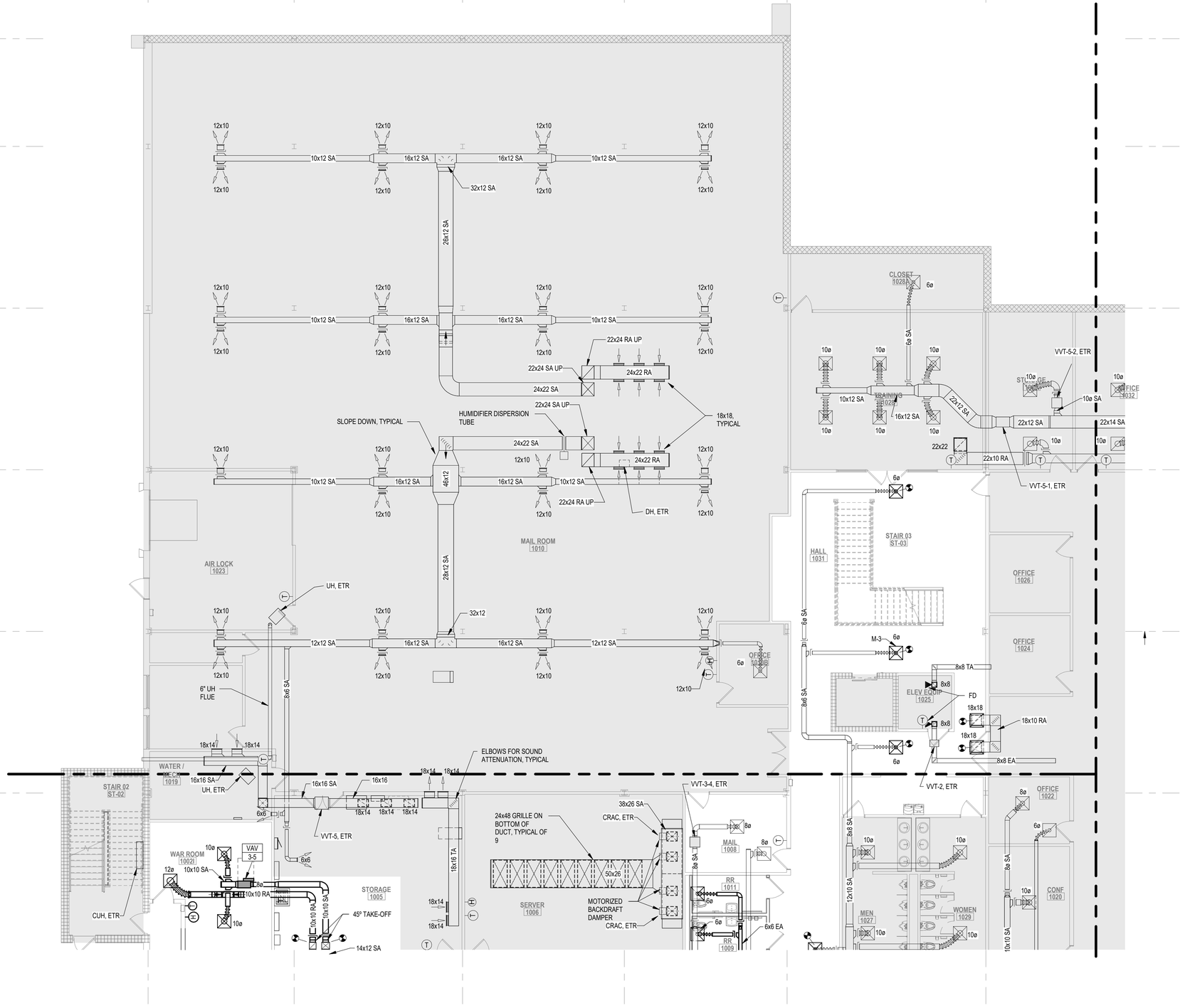
DATE
07.23.2026
DRAWING NUMBER
M121.A
PROJECT NUMBER
25030

BID SET

1 / M121.A DUCTWORK PLAN - LEVEL 1 - Area A (Southwest)
1/8" = 1'-0"

NEW WORK KEY
- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT

KEY PLAN
B
A



KEYED NOTES	
M-3	INSTALL NEW DIFFUSER IN SAME LOCATION (TYP).

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

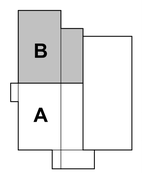
REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

Ductwork Plan - Level 1 - Area B

NEW WORK KEY
EXISTING
NEW / REVISED
EXISTING EQUIPMENT
NEW / REVISED EQUIPMENT



KEY PLAN

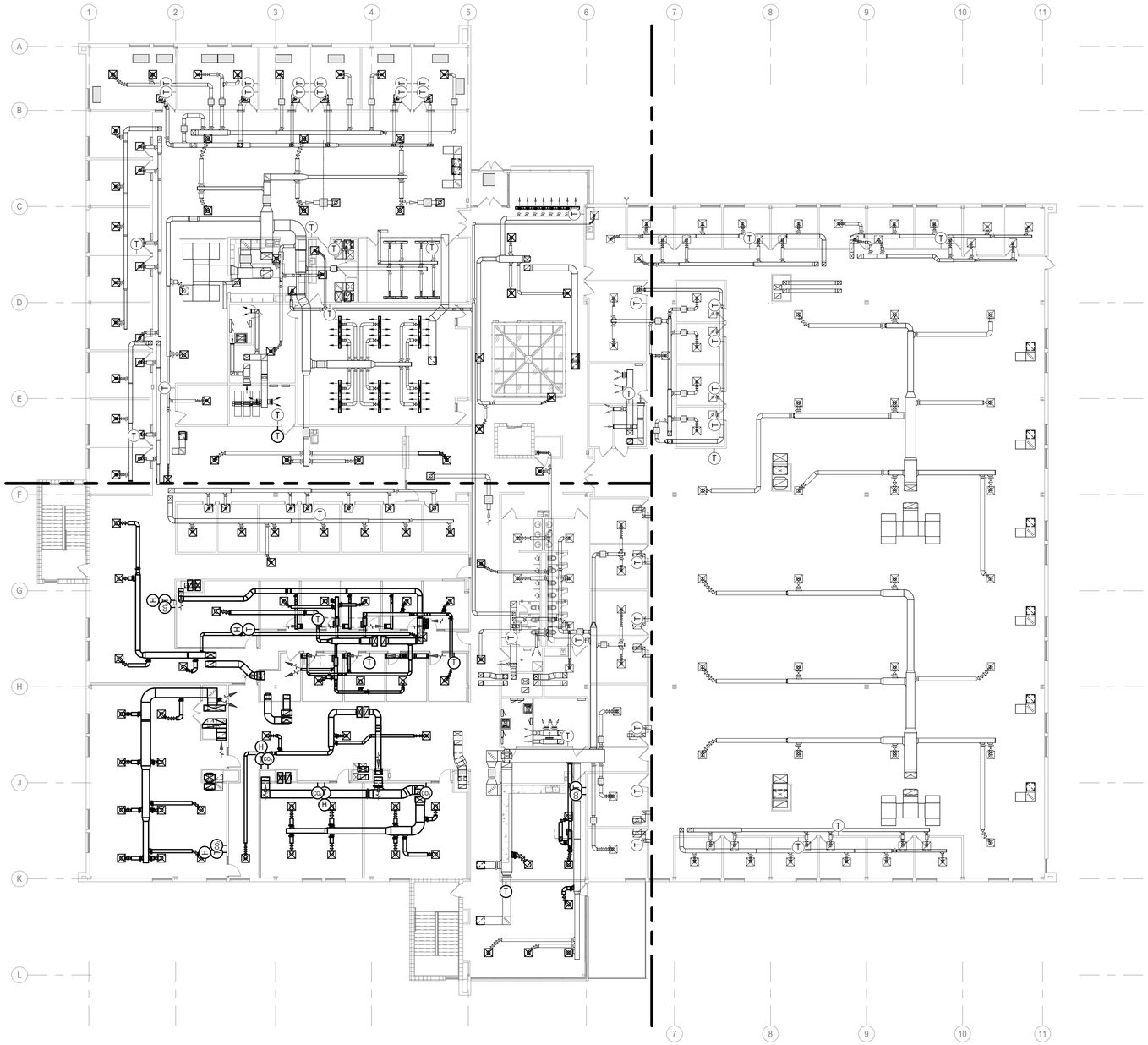
DATE
07.23.2026

DRAWING NUMBER
M121.B

PROJECT NUMBER
25030

BID SET

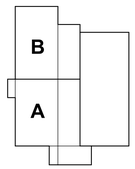
1 / M121.B DUCTWORK PLAN - LEVEL 1 - Area B (Northwest)
1/8" = 1'-0"



1 / M122 OVERALL DUCTWORK PLAN - LEVEL 2
1/16" = 1'-0"

KEYED NOTES

NEW WORK KEY
- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT



KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

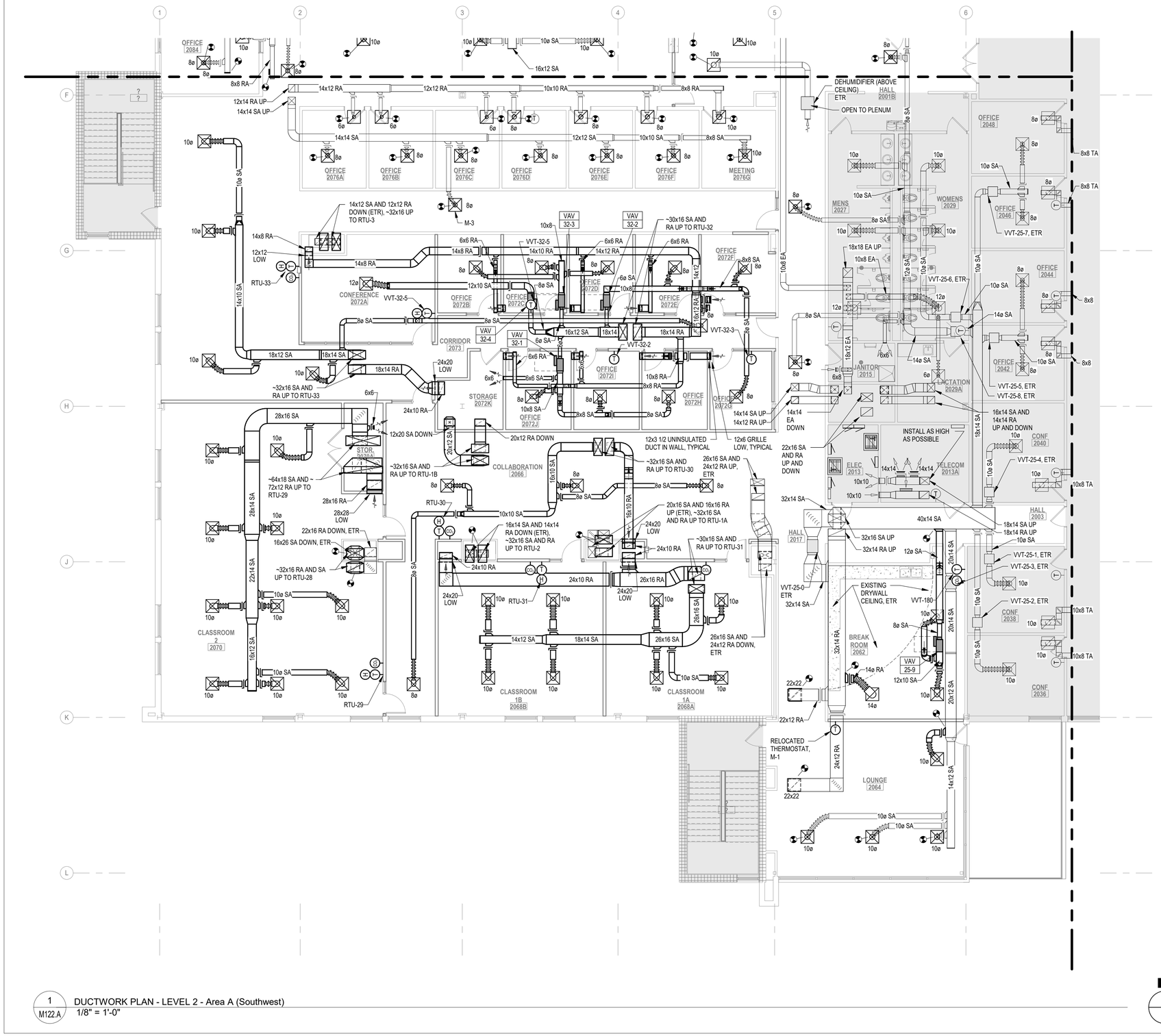
REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

Overall Ductwork Plan - Level 2

DATE
07.23.2026
DRAWING NUMBER
M122
BID SET
PROJECT NUMBER
25030



1 M122.A DUCTWORK PLAN - LEVEL 2 - Area A (Southwest)
1/8" = 1'-0"

KEYED NOTES	
M-1	INSTALL EXISTING SALVAGED THERMOSTAT AT NEW LOCATION.
M-3	INSTALL NEW DIFFUSER IN SAME LOCATION (TYP).

NEW WORK KEY
- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT

KEY PLAN

SOLUM LANG ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

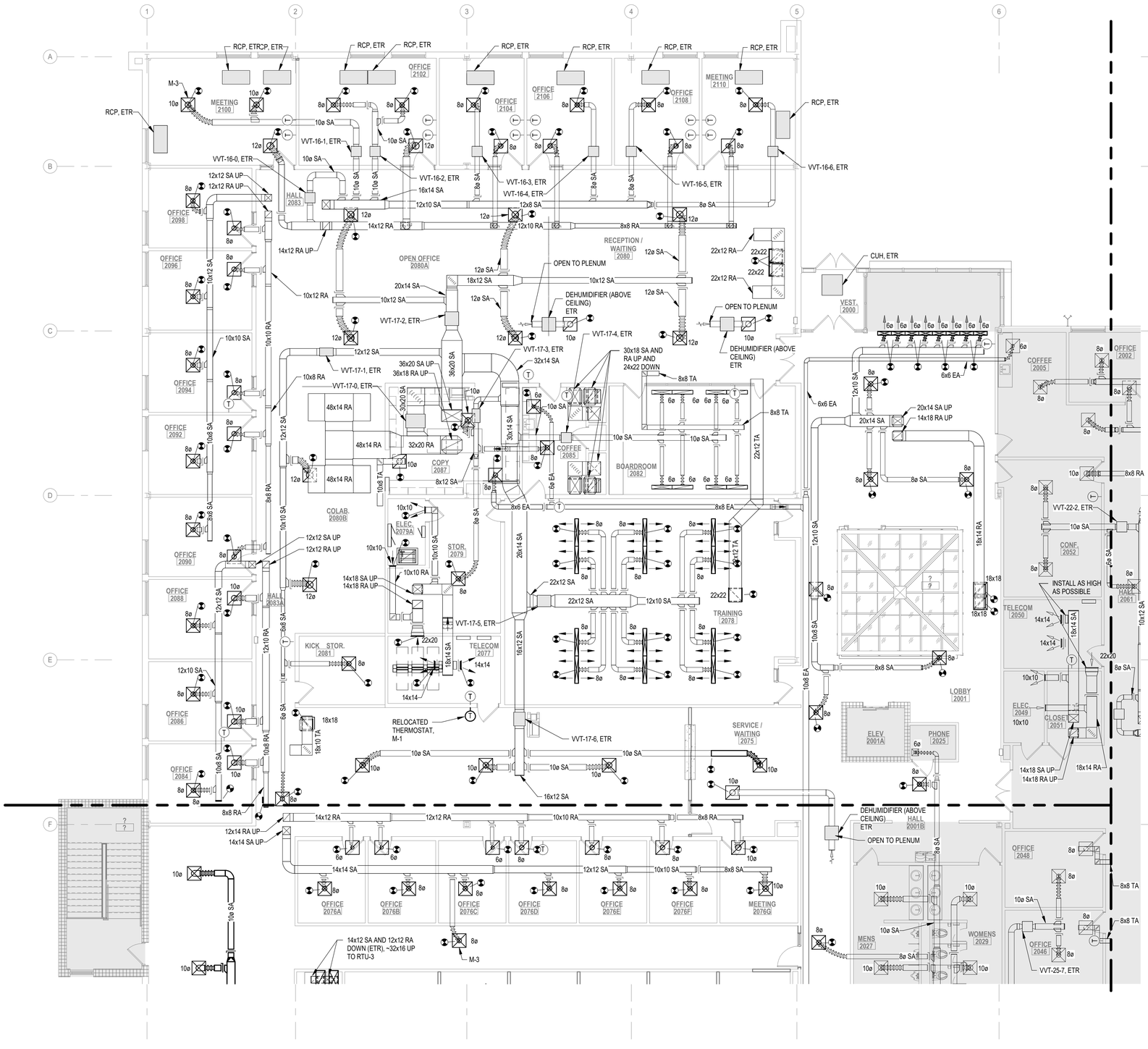
All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Ductwork Plan - Level 2 - Area A

DATE 07.23.2026
DRAWING NUMBER M122.A
BID SET
PROJECT NUMBER 25030



KEYED NOTES	
M-1	INSTALL EXISTING SALVAGED THERMOSTAT AT NEW LOCATION.
M-3	INSTALL NEW DIFFUSER IN SAME LOCATION (TYP).

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

Ductwork Plan - Level 2 - Area B

NEW WORK KEY
EXISTING
NEW / REVISED
EXISTING EQUIPMENT
NEW / REVISED EQUIPMENT

KEY PLAN

DATE 07.23.2026
DRAWING NUMBER M122.B
PROJECT NUMBER 25030
BID SET

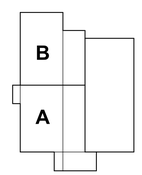
1 / M122.B DUCTWORK PLAN - LEVEL 2 - Area B (Northwest)
1/8" = 1'-0"

KEYED NOTES	
M-2	RE-BALANCE EXISTING ROOF MOUNTED EXHAUST FAN (REPLACE SHEAVE/BELT) TO ACCOMMODATE ADDITIONAL AIRFLOW REQUIREMENTS.



1 M133 OVERALL MECHANICAL PLAN - ROOF
1/16" = 1'-0"

NEW WORK KEY
- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT



KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

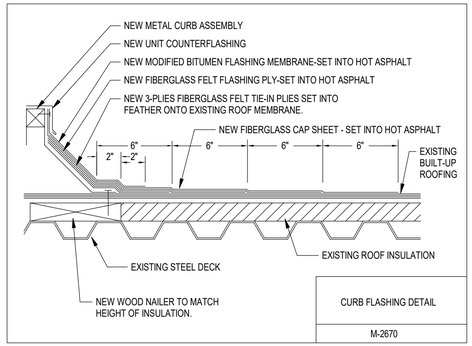
All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

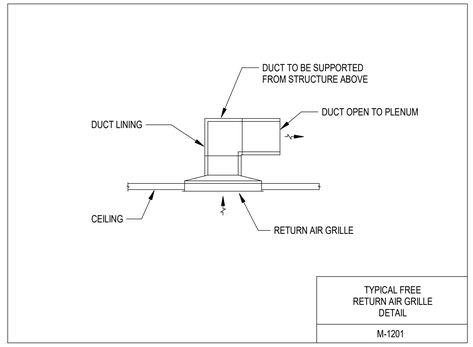
Kirkwood East Hall - Remodel
Overall Mechanical Plan - Roof

DATE 07.23.2026
DRAWING NUMBER M133
BID SET
PROJECT NUMBER 25030



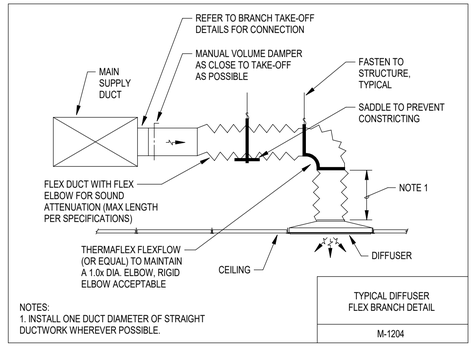
CURB FLASHING DETAIL

M-2670



TYPICAL FREE RETURN AIR GRILLE DETAIL

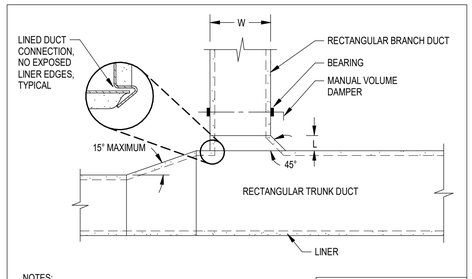
M-1201



NOTES:
1. INSTALL ONE DUCT DIAMETER OF STRAIGHT DUCTWORK WHEREVER POSSIBLE.

TYPICAL DIFFUSER FLEX BRANCH DETAIL

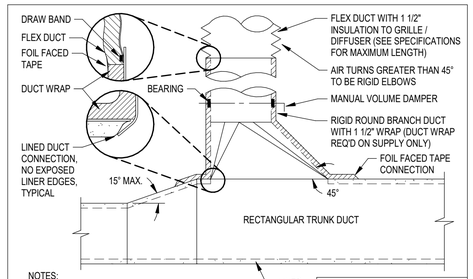
M-1204



NOTES:
1. PROVIDE VOLUME DAMPERS AT ALL BRANCH DUCTS AS CLOSE TO THE TAKEOFF AS POSSIBLE, WHETHER SHOWN ON PLANS OR NOT.
2. L=1/4 W (4"MIN.)

RECTANGULAR BRANCH LINED DUCT TAKE-OFF DETAIL

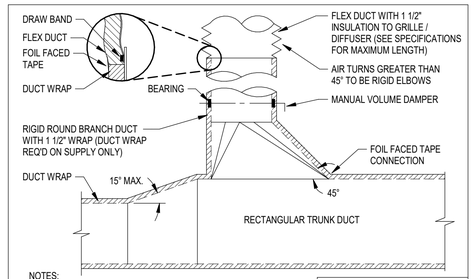
M-1230



NOTES:
1. PROVIDE VOLUME DAMPERS AT ALL BRANCH DUCTS AS CLOSE TO THE TAKEOFF AS POSSIBLE, WHETHER SHOWN ON PLANS OR NOT.
2. CONICAL TAKE-OFF'S ARE NOT AN ACCEPTABLE SUBSTITUTION FOR A 45 DEG. TAKE-OFF UNLESS SHOWN OTHERWISE.

ROUND BRANCH LINED DUCT TAKE-OFF DETAIL

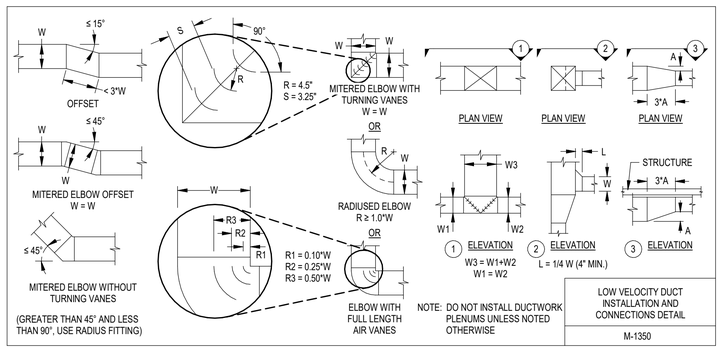
M-1231



NOTES:
1. PROVIDE VOLUME DAMPERS AT ALL BRANCH DUCTS AS CLOSE TO THE TAKEOFF AS POSSIBLE, WHETHER SHOWN ON PLANS OR NOT.
2. CONICAL TAKE-OFF'S ARE NOT AN ACCEPTABLE SUBSTITUTION FOR A 45 DEG. TAKE-OFF UNLESS SHOWN OTHERWISE.

ROUND BRANCH WRAPPED DUCT TAKE-OFF DETAIL

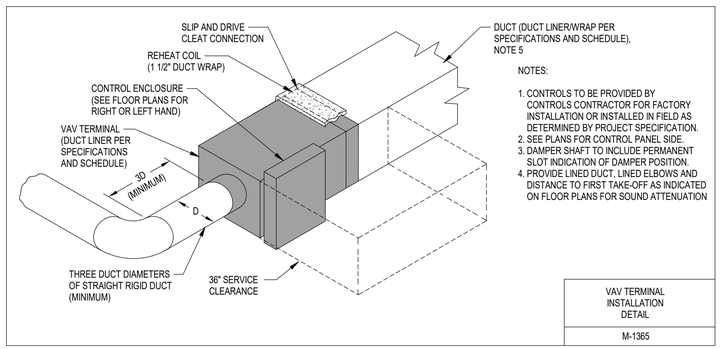
M-1234



NOTE: DO NOT INSTALL DUCTWORK PLENUMS UNLESS NOTED OTHERWISE

LOW VELOCITY DUCT INSTALLATION AND CONNECTIONS DETAIL

M-1350



NOTES:
1. CONTROLS TO BE PROVIDED BY CONTROLS CONTRACTOR FOR FACTORY INSTALLATION OR INSTALLED IN FIELD AS DETERMINED BY PROJECT SPECIFICATION.
2. SEE PLANS FOR CONTROL PANEL SIDE.
3. DAMPER SHAFT TO INCLUDE PERMANENT SLOT INDICATION OF DAMPER POSITION.
4. PROVIDE LINED DUCT, LINED ELBOWS AND DISTANCE TO FIRST TAKE-OFF AS INDICATED ON FLOOR PLANS FOR SOUND ATTENUATION

VAV TERMINAL INSTALLATION DETAIL

M-1365

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

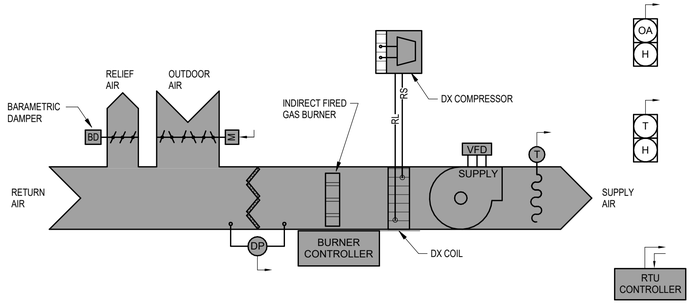
Kirkwood East Hall - Remodel
Mechanical Details

DATE
07.23.2026

DRAWING NUMBER
M500

BID SET

PROJECT NUMBER
25030



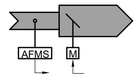
1 M501 RTU CONTROL SCHEMATIC (RTU-X)
NOT TO SCALE

ROOFTOP AIR CONDITIONING UNIT SEQUENCE OF OPERATION

A. General:
   1. The units supply year round air to the building. The units shall have a factory installed microprocessor-based controller which shall monitor and control the unit in a stand-alone mode. The contractor shall install network sensors and interface as required with factory mounted RTU controls and BAS controller.
   2. The microprocessor based controller shall stage the gas burner and compressor as required to maintain space temperature. The unit controller shall modulate the economizer to maintain space temperature when free cooling is available. The controller shall determine occupied / unoccupied modes according to the occupancy schedule set by the owner.
B. In the occupied mode, the sequence shall be as follows (Typical):
   1. The outdoor air damper shall be open to supply the minimum occupied outdoor airflow.
   2. The supply fan shall be on.
   3. The unit controller shall gradually modulate the gas burner, compressor, and economizer to maintain space temperature setpoint.
   4. Units with demand control shall include OA damper control based on space CO2 levels.
      a. OA damper shall open to minimum ventilation position when CO2 levels are below setpoint.
      b. OA damper shall modulate open to maximum ventilation position. when CO2 levels exceed setpoint.
C. In the unoccupied mode, the sequence shall be as follows (Typical):
   1. The outdoor air damper shall be closed.
   2. The return and supply fans shall be off unless there is a call for heating or cooling.
D. Dehumidification:
   1. The unit shall modulate hot gas reheat to maintain space humidity in all modes.
E. Sequence for VVT units (existing RTU-3, RTU-25 only) shall be as follows:
   1. The VVT controller shall continuously poll the space thermostats. If the majority of the space thermostats call for cooling, the unit shall be in cooling. If one or more space temperature sensors call for heating, the unit shall be in heating.
   2. In cooling mode the unit shall control for discharge air temperature of 55 degrees. The unit shall modulate the compressors for temperature control
   3. In heating mode the unit shall control for discharge air temperature of 90 degrees. The controller shall modulate the gas burner to control discharge air temperature.
F. Sequence for VAV units (RTU-28, RTU-32) shall be as follows:
   1. The controller shall continuously poll the space thermostats. If the majority of the space thermostats call for cooling, the unit shall be in cooling. If one or more space temperature sensors call for heating, the unit shall be in heating.
   2. In cooling mode the unit shall control for discharge air temperature of 55 degrees. The unit shall modulate the compressors for temperature control
   3. In heating mode the unit shall control for discharge air temperature of 90 degrees. The controller shall modulate the gas burner to control discharge air temperature.
   4. Modulate fan speed to maintain duct static pressure setpoint.

ROOFTOP AIR CONDITIONING UNIT POINTS LIST

A. Analog Inputs
   1. RTU Discharge Air Temperature
   2. Space Temperature
   3. Space Humidity
   4. Outdoor Air Temperature
   5. Duct Static Pressure
   6. Reheat
   7. Space CO2 (where applicable)
B. Analog Outputs
   1. Space Temperature Setpoint
   2. Space Temperature
   3. Space Humidity setpoint
C. Binary Inputs
   1. Supply Fan Status
   2. Cooling System Status
   3. Heating System Status
   4. Economizer Status
   5. Dirty Filter Status
D. Binary Outputs
   1. Occupied Mode
   2. Unoccupied Mode
E. Suggested Alarm Values
   1. RTU Alarm
   2. Dirty Filter Alarm
   3. Compressor Fault



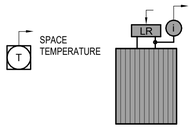
2 M501 VAV CONTROL SCHEMATIC (VAV)
NOT TO SCALE

VARIABLE AIR VOLUME TERMINAL UNITS SEQUENCE OF OPERATION

A. General:
   1. The control panel shall index variable volume terminal units between occupied and unoccupied modes.
   2. Provide all sensors with adjustable set point.
   3. Each VAV will have maximum and minimum airflow setpoints.
B. The operation shall be as follows:
   1. On a call for heating:
      a. If the unit is in heating, the VAV unit shall modulate based on space temperature.
      b. If the unit is in cooling, the VAV unit shall be closed.
   2. In unoccupied mode the setpoint shall be 72.5 deg with a + or - 10 deg (adj) deadband. On a call for cooling:
      a. If the unit is in cooling, the VAV unit shall modulate based on space temperature.
      b. If the unit is in heating, the VAV unit shall be closed.
   3. When there is no call for heating or cooling:
      a. The VAV unit shall be closed.
   4. The space temperature set point shall be adjustable at the sensor within a range as specified at the DDC panel (+/- 5 deg. F adj. from winter set point 68 degrees F, summer set point 75 degrees F).

VARIABLE AIR VOLUME TERMINAL UNITS POINTS LIST

A. Analog Inputs
   1. Space Temperature
   2. Space Setpoint
   3. Supply air duct pressure
   4. Supply Airflow
B. Analog Outputs
   1. VAV Damper Position
C. Binary Inputs
   1. None
D. Binary Outputs
   1. None
E. Alarms
   1. None



3 M501 ELECTRIC RADIANT CEIILING PANEL CONTROL SCHEMATIC
NOT TO SCALE

RADIANT CEILING PANEL - ELECTRIC SEQUENCE OF OPERATION

A. General:
   1. The radiant ceiling panels shall operate as required to maintain space setpoint.
   2. The radiant panel controller system shall gradually modulate the radiant ceiling heating element maintain space setpoint.
   3. The space setpoint shall initially be 68 deg (adj).

RADIANT CEILING PANEL - ELECTRIC POINTS LIST

A. Analog Inputs
   1. Space Temperature
B. Analog Outputs
   1. None
C. Binary Inputs
   1. None
D. Binary Outputs
   1. None
E. Software Points
   1. None
F. Alarms
   1. Space temperature 10 degrees off of setpoint

GENERAL CONTROL NOTES

1. ALL HVAC SYSTEMS SHALL BE CONTROLLED WITH DIRECT DIGITAL CONTROL (BAS) ACCORDING TO THE CONTROL SEQUENCES. ALL POINTS, SOFTWARE PROGRAMMING AND HARDWARE, WHICH ARE REQUIRED TO MEET THE SEQUENCES OF OPERATION, SHALL BE PROVIDED. ACTUATION OF ALL VALVES AND DAMPERS ASSOCIATED WITH AIR HANDLING UNITS AND ENERGY RECOVERY UNITS SHALL BE ELECTRIC WITH SPRING RETURN ON THE ACTUATORS.
2. ALL CONTROLLERS, RELAYS, TRANSDUCERS, ETC., REQUIRED FOR STAND-ALONE CONTROL SHALL BE HOUSED IN A NEMA 1 ENCLOSURE WITH A LOCKABLE DOOR.
3. COORDINATE LOCATIONS OF ALL DUCT MOUNTED DEVICES WITH SHEET METAL CONTRACTOR.
4. ALL CONTROL DEVICES AT EXTERIOR LOCATIONS SHALL BE INSTALLED IN A NEMA 4X ENCLOSURE WITH A LOCKABLE DOOR.
5. ALL MASTER CONTROLLERS SHALL BE PROVIDED WITH A MINIMUM OF 25% SPARE CAPACITY. LIST THE USED CAPACITY FOR EACH MASTER CONTROLLER ON THE SHOP DRAWINGS.
6. ALL POINTS AND SET POINTS SHALL BE PROGRAMMED TO BE ADJUSTABLE.
7. COORDINATE THE INSTALLATION OF ALL REQUIRED INFRASTRUCTURE ITEMS (DATA PORTS, NETWORK CONNECTIONS, IT ROOM COMPLETION, ETC.) WITH THE TELECOM CONTRACTOR. IT ROOMS SHALL BE COMPLETE IN TIME TO ALLOW FOR CONTROLS PROGRAMMING AND COMMISSIONING ACTIVITIES TO TAKE PLACE PRIOR TO SUBSTANTIAL COMPLETION.

CONTROLS SCHEMATIC SYMBOLS

(NOTE: ALL SYMBOLS SHOWN MAY NOT BE REQUIRED FOR THIS PROJECT.)

T — SINGLE DEVICE

SPACE SENSOR
(REFER TO CONTROL SCHEMATICS AND SPECIFICATIONS)
T = TEMPERATURE SENSOR WITH SETPOINT ADJUSTMENT
T* = TEMPERATURE SENSOR ONLY
H = HUMIDITY SENSOR
CO$_2$ = CARBON DIOXIDE SENSOR
CO = CARBON MONOXIDE SENSOR
NG = NATURAL GAS SENSOR
NO$_x$ = NITROGEN DIOXIDE SENSOR
VO = VENTILATION OVERRIDE BUTTON
$ = SWITCH WITH PILOT LIGHT
B = PUSH BUTTON
OCC = OCCUPANCY SENSOR
OA = EXTERIOR MOUNTED OUTDOOR AIR TEMPERATURE SENSOR

H / T — COMBINATION DEVICE

AVERAGING/LOW POINT SENSORS
T = TEMPERATURE (AVERAGING)
F = FREEZE STAT (LOW POINT)

DP — DIFFERENTIAL PRESSURE SENSOR

SENSOR
P = PRESSURE
HP = HIGH PRESSURE SAFETY SWITCH
LP = LOW PRESSURE SAFETY SWITCH
T = TEMPERATURE
H = HUMIDITY
I = CURRENT
A = AQUASTAT

ECM

MOTOR
ECM = ELECTRONICALLY COMMUTATED
VFD = VARIABLE FREQUENCY DRIVE
MS = MOTOR STARTER
LR = LINE VOLTAGE RELAY

EXHAUST

FAN
EXHAUST
RETURN
SUPPLY
RELIEF

OUTPUT FROM DDC CONTROLLER

INPUT TO DDC CONTROLLER

F.C. — FAIL CLOSED, I.E. UNDER A LOST OF CONTROL SIGNAL THE DAMPER SHALL SPRING RETURN TO CLOSE

F.O. — FAIL OPEN, I.E. UNDER A LOST OF CONTROL SIGNAL THE DAMPER SHALL SPRING RETURN TO OPEN

F.I.P. — FAIL IN PLACE, I.E. UNDER A LOST OF CONTROL THE ACTUATOR WILL STAY IN ITS LAST POSITION

TWO WAY CONTROL VALVE

THREE WAY CONTROL VALVE

PUMP

AFMS

AFMS = AIR FLOW MEASURING STATION
WFMS = WATER FLOW MEASURING STATION

DAMPER
M = MOTORIZED
SD = SMOKE
FSD = FIRE/SMOKE

FILTER

COMPRESSOR

THIRD PARTY CONTROLLER

AFMS M — VAV - VARIABLE AIR VOLUME BOX / VALVE

HUMIDIFIER DISPERSION TUBE

COIL, ENERGY RECOVERY WHEEL, ETC.

FACE AND BYPASS COIL

DUCTWORK

EQUIPMENT

SHADED — SHADED = FACTORY MOUNTED

UNSHADED — UNSHADED = FIELD MOUNTED

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Mechanical Temperature Control Schematics

DATE
07.23.2026

DRAWING NUMBER
M501

BID SET

PROJECT NUMBER
25030

ROOF TOP UNIT AIR CONDITIONER SCHEDULE

PLAN MARK	AIRFLOW (CFM)	MIN O.A. (CFM)	SP (IN WC) EXT	(RPM)	(BHP)	(HP)	SELF CONTAINED COOLING CAP (MBH) TOT	MIN	EER	EAT (DEG F) DB	WB	LAT (DEG F)	AMB. DB	REFRIG.	HEATING INPUT (MBH)	OUTPUT (MBH) ACTUAL	MIN	GAS PRESS. (IN WC) MIN	MAX	AIR TEMP. (DEG F) ENT	LVG	ELECTRICAL (VOLTS)	(PH)	MCA	SCCR	DIMENSIONS L x W x H (IN)	WEIGHT (LB)	MANUFACTURER/ MODEL # (NOTE 1)	NOTES
RTU-1A	1500	325	1.25	988	0.59	3	51.6	50	14.3	78.6	65.7	56	105	R-454B	80	64.8	60.60	14	4.5	47.5	84.9	460	3	21	5kA	80.1 X 53.3 X 50.9	1203	YZK060A4SAL	1,3,4
RTU-1B	1500	290	1.25	988	0.59	3	51.5	50	14.3	78.9	66	56	105	R-454B	80	64.8	56.70	14	4.5	49.9	84.9	460	3	21	5kA	80.1 X 53.3 X 50.9	1203	YZK060A4SAL	1,2,4
RTU-2	950	150	1.25	934	0.44	3	30.2	30.2	14.3	77.6	64.9	56	105	R-454B	80	64.8	61.50	14	4.5	53.4	113.4	460	3	16	5kA	80.1 X 53.3 X 50.9	1194	YZK036A4SAL	1,2,4
RTU-3	900	200	1.25	929	0.43	3	31.1	31	14.3	79.8	66.7	57	105	R-454B	80	64.8	61.70	14	4.5	40.8	104.3	460	3	16	5kA	80.1 X 53.3 X 50.9	1194	YZK036A4SAL	1,2,4
RTU-28	1200	160	1.25	960	0.5	3	39.6	39	14.3	77.2	64.5	53	105	R-454B	80	64.8	62.50	14	4.5	55.9	104.1	460	3	21	5kA	80.1 X 53.3 X 50.9	1199	YZK048A4SAL	1,3,4,6
RTU-29	3750	685	1	1025	1.35	(2) 3	130.8	112.4	13.6	78.0	65.2	56	105	R-454B	250	202	199.30	14	4.5	46.4	95.6	460	3	44	65kA	123.0 X 87.0 X 66.0	2621	YZK150A4SBH	1,3,4,5
RTU-30	900	175	1	838	0.32	3	30.6	29.6	14.3	79.0	66.0	57	105	R-454B	80	64.8	64.40	14	4.5	49.7	116.0	460	3	16	5kA	80.1 X 53.3 X 50.9	1194	YZK036A4SAL	1,3,4,5
RTU-31	3000	650	1	1211	1.22	4.6	104.0	103	12.3	78.6	65.7	56	105	R-454B	250	202	191.20	14	4.5	47.5	109	460	3	36	65kA	99.6 X 63.1 X 50.9	1660	YZK120A4SBH	1,2,4,5
RTU-32	1500	215	1.25	988	0.59	3	53.3	44	14.3	77.4	64.7	57	105	R-454B	80	64.8	62.70	14	4.5	54.9	93.6	460	3	21	5kA	80.1 X 53.3 X 50.9	1203	YZK060A4SAL	1,2,4,6
RTU-33	1500	325	1	900	0.46	3	53.3	49	14.3	78.6	65.7	56	105	R-454B	100	81	78.70	14	4.5	47.5	96.1	460	3	21	5kA	80.1 X 53.3 X 50.9	1203	YZK060A4SAL	1,2,4,5

NOTES:
1. **UNIT INFORMATION FOR REFERENCE ONLY. UNIT AND ROOF CURB/ADAPTER CURB FURNISHED BY OWNER FOR INSTALLATION BY CONTRACTOR.**
2. INSTALL NEW UNIT WITH NEW CURB AND NEW OPENINGS IN EXISTING ROOF.
3. INSTALL NEW UNIT WITH CURB ADAPTER TO EXISTING ROOF CURB WHERE EXISTING ROOFTOP UNIT WAS REMOVED.
4. PROVIDE CONDENSATE DRAIN LINE CONNECTED TO DRAIN PAN WITH TRAP, DIRECTED TOWARD NEARST ROOF DRAIN.
5. PROVIDE UNIT WITH DEMAND CONTROL VENTILATION.
6. UNIT TO ACCOMPANY TERMINAL UNITS FOR ZONE CONTROL.

DIFFUSER AND GRILLE SCHEDULE

PLAN MARK	TYPE	MODEL NUMBER (NOTE 1)	DESCRIPTION	MOUNTING (NOTE 2)	COLOR (NOTE 3)	REMARKS	NOTES
1a	SUPPLY DIFFUSER	SCD	STEEL LOUVERED DIFFUSER	LAY-IN	STANDARD WHITE	24" X 24"	6
2a	SUPPLY DIFFUSER	520	STEEL LOUVERED DOUBLE DEFLECTION DIFFUSER	SURFACE	WHITE PRIME COAT, FIELD PAINTED	BLADES AT 15 DEG. UP, 22 DEG. 2-WAY, 3/4" SPACING	4
3a	SUPPLY DIFFUSER	TBD7	STEEL FIXED LINEAR DIFFUSER	LAY-IN	STANDARD WHITE	48", 2 SLOT, 2-WAY THROW	7
10a	RETURN GRILLE	PDDR	STEEL PERFORATED GRILLE	LAY-IN	STANDARD WHITE	24" X 24"	
11a	RETURN GRILLE	530	STEEL LOUVERED SINGLE DEFLECTION GRILLE	SURFACE	WHITE PRIME COAT, FIELD PAINTED	FIXED BLADES AT 45 DEG., 3/4" SPACING	5
20a	EXHAUST GRILLE	PDDR	STEEL PERFORATED GRILLE	LAY-IN	STANDARD WHITE	24" X 24"	
30a	TRANSFER GRILLE	PDDR	STEEL PERFORATED GRILLE	LAY-IN	STANDARD WHITE	24" X 24"	
-	EXISTING GRILLE	NA	EXISTING GRILLE TO REMAIN	NA		REBALANCE EXISTING GRILLE AS INDICATED ON PLANS	

NOTES:
1. SELECTIONS BASED ON PRICE INDUSTRIES. INSTALLING CONTRACTOR TO SET AND ADJUST AIRFLOW DIRECTIONS AS NOTED.
2. COORDINATE T-GRID STYLE/SIZE FOR LAY-IN DIFFUSER/GRILLES WITH CEILING CONTRACTOR.
3. FINISH TO BE POWDER COAT OR ELECTRO COAT PROCESS. PRIME COAT FINISHES TO BE FIELD PAINTED, COLOR BY ARCHITECT.
4. FRONT BLADES TO BE HORIZONTAL, REAR BLADES TO BE VERTICAL. MOUNTING TO BE FRONT MOUNTED SCREWS.
5 BLADES TO BE HORIZONTAL. MOUNTING TO BE FRONT MOUNTED SCREWS.
6. PROVIDE OPTIONAL 4TH CONE.
7. PROVIDE DIFFUSER/GRILLE WITH 1/2" INTERNALLY INSULATED PLENUM AS SHOWN ON PLANS.

DUCT INSULATION SCHEDULE (NOTE 1)

SPACE TYPE	SERVICE (NOTE 2)	CONSTRUCTION	SYSTEM TYPE/APPLICATION	DUCT LINER (NOTE 3)	DUCT COVERING (NOTE 4)	PRE-INSULATED (NOTE 5)	RIGID COVERING (NOTE 4)	UN-INSULATED
CONDITIONED OR TEMPERED (NOTE 6, 7)	SUPPLY AIR - CONCEALED	ROUND	GENERAL	-	1-1/2"	-	-	-
		RECTANGULAR	GENERAL (NOTE 8)	1"	-	-	-	-
	SUPPLY AIR - EXPOSED	ROUND	DOUBLE WALL, BETWEEN LAYERS	-	-	1"	-	-
			SINGLE WALL, W/DUCT LINER	1"	-	-	-	-
		RECTANGULAR	GENERAL (NOTE 8)	1"	-	-	-	-
	SUPPLY AIR - GENERAL	FLEX DUCT	-	-	-	1-1/2"	-	-
		FLEX CONNECTOR	-	-	1-1/2"	-	-	-
		EQUIPMENT	VAV REHEAT COILS, DUCT MOUNTED COILS, SUPPLY AIR VALVES, FILTER HOUSINGS, SOUND ATTENUATORS, ETC.	-	1-1/2"	-	-	-
	RETURN AIR	ROUND	GENERAL	-	-	-	-	UNINSULATED
		RECTANGULAR	GENERAL	1"	-	-	-	-
		FLEX DUCT	-	-	-	1-1/2"	-	-
		FLEX CONNECTOR	-	-	-	-	-	UNINSULATED
	EXHAUST/ RELIEF AIR	ROUND	GENERAL	-	-	-	-	UNINSULATED
		RECTANGULAR	GENERAL	-	-	-	-	UNINSULATED
		FLEX DUCT	-	-	-	1-1/2"	-	-
		FLEX CONNECTOR	-	-	-	-	-	UNINSULATED
		GENERAL	DOWNSTREAM OF ERU, AHU OR EF	-	1-1/2"	-	-	-
	TRANSFER AIR	ROUND	GENERAL	-	-	-	-	UNINSULATED
		RECTANGULAR	GENERAL	1"	-	-	-	-
		FLEX DUCT	-	-	-	1-1/2"	-	-

NOTES:
1. UNLESS LISTED ABOVE AS "UNINSULATED", ALL DUCTWORK AND ACCESSORIES SHOWN ON THE PLANS SHALL BE EITHER LINED OR COVERED. IF TYPE OR THICKNESS IS NOT INDICATED, IT SHALL BE 1-1/2" COVERING. REFER TO PLANS FOR DUCTWORK TYPE HATCHING KEY (WHERE APPLICABLE).
2. REFER TO PLANS FOR DUCTWORK DESIGNATIONS. "CONCEALED" INCLUDES DUCTWORK ABOVE CEILINGS OR IN UTILITY ROOMS (MECHANICAL AND ELECTRICAL/TELECOM ROOMS). "EXPOSED" INCLUDES DUCTWORK IN FINISHED AND NON-UTILITY SPACES.
3. SEE SPECIFICATION SECTION 23 3113 - HVAC METAL DUCTS.
4. SEE SPECIFICATION SECTION 23 0700 - HVAC INSULATION.
5. SEE SPECIFICATION SECTION 23 3300 - AIR DUCT ACCESSORIES AND/OR 23 3113 - HVAC METAL DUCTS.
6. CONDITIONED SPACE: AN AREA INSIDE THE BUILDING WHICH IS HEATED AND/OR COOLED.
7. TEMPERED SPACE: AN AREA INSIDE THE BUILDING WHICH IS NOT DIRECTLY HEATED OR COOLED, BUT IS ADJACENT TO A HEATED OR COOLED SPACE WITH NO INSULATION SEPARATING THE TWO SPACES (E.G., CEILING PLENUMS).
8. FOR SYSTEMS THAT DO NOT HAVE VAV TERMINAL UNITS OR DUCT MOUNTED REHEAT COILS, INCLUDING BUT NOT LIMITED TO FURNACE, HEAT PUMP, FAN COIL/BLOWER COIL UNIT, SINGLE ZONE AHU/RTU, DOAS UNITS.

VARIABLE AIR VOLUME TERMINALS

PLAN MARK	INLET SIZE (IN)	INLET PRES (IN WC)	MAX AIRFLOW (CFM)	MIN AIFLOW (CFM)	SP (NOTE 2) (IN WC)	NC RATING (NOTE 3)	MODEL (NOTE 1)	ROOMS SERVED	NOTES
VAV-28-1	6	0.25	300	100	0.09	18	VCC6	1004 - EXEC SUITE	4
VAV-28-2	6	0.25	150	75	0.02	15	VCC6	1004D - EXEC OFFICE	4
VAV-28-3	6	0.25	275	75	0.08	18	VCC6	1004C - EXEC OFFICE	4
VAV-28-4	6	0.25	275	75	0.08	18	VCC6	1004B - VP OFFICE	4
VAV-28-5	6	0.25	200	75	0.05	15	VCC6	1004A - SENIOR OFFICE	4
VAV-32-1	6	0.25	350	100	0.1	19	VCC6	2072J,I,H - OFFICE & 2072K - STORAGE	4
VAV-32-2	6	0.25	300	100	0.09	18	VCC6	2072G,F,E - OFFICE	4
VAV-32-3	6	0.25	300	100	0.09	18	VCC6	2072D,C,B - OFFICE	4
VAV-32-4	8	0.25	550	200	0.04	20	VCC8	2072A - CONFERENCE	4
VAV-25-9	8	0.25	580	200	0.04	20	VCC8	2062 - BREAKROOM	4, 5
VAV-3-5	8	0.25	450	150	0.03	18	VCC8	1002I - WAR ROOM	4, 5

NOTES
1. EXCEPT WHERE NOTED OTHERWISE, MODEL SELECTIONS BASED ON TRANE, REFER TO SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.
2. STATIC PRESSURE DROP AT LISTED AIRFLOW THROUGH VAV BOX (DAMPER 100% OPEN).
3. NC RATING IS MAXIMUM DISCHARGE OR RADIATED RATING ALLOWED. NC RATINGS TO BE CALCULATED IN ACCORDANCE WITH ARI-885.
4. COORDINATE INSTALLATION OF VAV TERMINAL UNITS WITH REQUIRED LENGTHS OF STRAIGHT DUCT AND CLEARANCE REQUIREMENTS (SEE DETAIL H-1365). VAV CONTROLLERS TO BE PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR.
5. UNITS WILL BE INTEGRATED WITH VVT SYSTEM AND PAIRED WITH BYPASS UNITS.

DUCT PRESSURE AND SEAL CLASS SCHEDULE (NOTE 1)

SYSTEM	SERVICE	DUCT PRESSURE CLASS (NOTE 2)	DUCT SEAL CLASS (NOTE 2)
EXHAUST FAN, EF-1	EXHAUST AIR	NEGATIVE 4"	A
ROOFTOP UNIT-1A,1B,2,3,28,29,30,31,32,33	SUPPLY AIR	POSITIVE 2"	A
	RETURN AIR	NEGATIVE 2"	A
OTHER	TRANSFER	POSITIVE 1"	A

NOTES:
1. DUCTWORK TO BE DUCT PRESSURE CLASS +-6" AND DUCT SEAL CLASS A UNLESS LISTED OTHERWISE IN SCHEDULE ABOVE.
2. DUCT PRESSURE AND SEAL CLASSES INDICATED ARE MINIMUM REQUIREMENTS BASED ON SMACNA DUCT CONSTRUCTION STANDARDS.

ELECTRIC RADIANT HEATING CEILING PANEL SCHEDULE

PLAN MARK	PANEL WIDTH (IN.)	PANEL LENGTH (IN.)	CAPACITY (BTU/HR)	ELECTRICAL WATTS	VOLTS	PH	MANUFACTURER/ MODEL #	NOTES
ERCP-1	24	48	2558	750	120	1	BERKO CP751	1, 2

NOTES:
1. PROVIDE WITH LINE VOLTAGE THERMOSTAT AND FACTORY PRE-WIRED RELAY.
2. COLOR TO BE SELECTED BY ARCHITECT

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Mechanical Schedules

DATE
07.23.2026
DRAWING NUMBER
M510
PROJECT NUMBER
25030

BID SET

ELECTRICAL ABBREVIATIONS

(NOTE: ALL ABBREVIATIONS SHOWN MAY NOT BE REQUIRED FOR THIS PROJECT)

*** ABBREVIATIONS ***

3R	NEMA 3R ENCLOSURE
4X	NEMA 4X ENCLOSURE
A	AMPERES
AF	AMPERE FRAME
AFCI/AFI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMP INTERRUPTING CAPACITY
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
ACT	ACOUSTICAL CEILING TILE
BRKR	BREAKER
C	CONDUIT
C1D1	CLASS I DIVISION 1
C1D2	CLASS I DIVISION 2
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CKT	CIRCUIT
CMS	COMBINATION MOTOR STARTER
CT	CURRENT TRANSFORMER
DB	DISTRIBUTION BOARD
DISC	DISCONNECT
DN	DOWN
DP	DISTRIBUTION PANEL
DS	DISCONNECT SWITCH
EGC	EQUIPMENT GROUND CONDUCTOR
EM/EMER	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FDR	FEEDER
FDS	FUSED DISCONNECT SWITCH
FLA	FULL LOAD AMPERES
FMC	FLEXIBLE METAL CONDUIT
FLR	FLOOR
FVNR	FULL VOLTAGE NON-REVERSING
FSD	FIRE/SMOKE DAMPER
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFI/GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTED
GND	GROUND
HH	HAND HOLE
HOA	HAND OFF AUTOMATIC
HP	HORSE POWER
HGT	HEIGHT
IESCR	INTEGRATED ELECTRICAL SHORT CIRCUIT RATING
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INV	INVERTER
JB	JUNCTION BOX
KB	KNOX BOX
KV	KILOVOLT
KVA	KILOVOLT-AMPERES
KW	KILOWATTS
KWH	KILOWATT HOURS
LAN	LOCAL AREA NETWORK
LCP	LIGHTING CONTROL PANEL
LED	LIGHT EMITTING DIODE
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LI	LONG-TIME / INSTANTANEOUS
LSI	LONG-TIME / SHORT-TIME / INSTANTANEOUS
LSIA	LONG-TIME / SHORT-TIME / INSTANTANEOUS / GROUND ALARM
LSIG	LONG-TIME / SHORT-TIME / INSTANTANEOUS / GROUND
LTG	LIGHTING
LV	LOW VOLTAGE (0-49V)
MCB/MB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CIRCUIT
MCP	MOTOR CIRCUIT PROTECTOR
MCS	MOLDED CASE SWITCH
MH	MANHOLE
MLO	MAIN LUGS ONLY
MTR	MOTOR / METER
MV	MEDIUM VOLTAGE (601V TO 69KV)
NA	NOT APPLICABLE
NAC	NOTIFICATION APPLIANCE CIRCUIT
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OCPD	OVERCURRENT PROTECTIVE DEVICE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
P	POLE
PB	PULL BOX / PUSH BUTTON
PC	PHOTOCELL
PDU	POWER DISTRIBUTION UNIT
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PV	PHOTOVOLTAIC
PVC	POLYVINYL CHLORIDE CONDUIT
PWR	POWER
RAC	RIGID ALUMINUM CONDUIT
REC	RECESSED
RCPT	RECEPTACLE
REL	RELOCATE
REQD	REQUIRED
RGS	RIGID GALVANIZED STEEL CONDUIT
SCCR	SHORT CIRCUIT CURRENT RATING
SIM	SIMILAR
SPD	SURGE PROTECTION DEVICE
SPEC	SPECIFICATION
SSBJ	SUPPLY SIDE BONDING JUMPER
ST	SHUNT TRIP
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SD	SMOKE DAMPER
TS	TAMPER SWITCH
TR	TAMPER RESISTANT
TVSS	TRANSIENT VOLT SURGE SUPPRESSOR
TYP	TYPICAL
UC	UNDER COUNTER
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTED POWER SUPPLY
USB	UNIVERSAL SERIAL BUS TYPE DEVICE
V	VOLTS
VA	VOLT AMPS
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
WG	WIRE GUARD
WP	WEATHERPROOF
WPD	WEATHERPROOF DEVICE - IN USE
XFMR	TRANSFORMER
XP	EXPLOSION PROOF

ELECTRICAL SYMBOLS

REFER TO TECHNOLOGY/ COMMUNICATION, FIRE ALARM, AUDIO VISUAL, SECURITY, AND NURSE CALL SYMBOLS LIST FOR ADDITIONAL INFORMATION.

(NOTE: ALL SYMBOLS SHOWN MAY NOT BE REQUIRED FOR THIS PROJECT)

(NOTE: +##" INDICATES DIMENSION HEIGHT TO CENTER OF DEVICE ABOVE FINISHED FLOOR. IN GENERAL, ALL RECEPTACLES ARE TO BE +18" UNLESS NOTED OTHERWISE.)

*** LIGHTING FIXTURES ***

- INDICATES DAYLIGHT HARVEST ZONE
- CEILING FIXTURE - PENDANT MOUNTED
- CEILING FIXTURE
- CEILING FIXTURE - RECESSED
- FIXTURE - WALL MOUNTED
- LINEAR FIXTURE
- LINEAR FIXTURE - RECESSED
- LINEAR FIXTURE - WALL MOUNTED
- STRIP FIXTURE
  - = SUSPENDED FIXTURE
- STRIP FIXTURE - WALL MOUNTED
- DIRECT / INDIRECT FIXTURE - SUSPENDED
  - = FEED/SUSPENSION POINT
  - + = SUSPENSION POINT
- LED STRIP FIXTURE
  - ■ = FEED POINT
- EXIT SIGN - CEILING MOUNTED
- EXIT SIGN - WALL MOUNTED
- EXIT / EMERGENCY SIGN - CEILING MOUNTED
- EXIT / EMERGENCY SIGN - WALL MOUNTED

(SOLID FILL) - INDICATES EXIT FACE

(ARROWS) - INDICATES CHEVRON DIRECTION

- EMERGENCY LIGHT - CEILING MOUNTED
- EMERGENCY LIGHT - WALL MOUNTED
- LIGHT TRACK
  - = FEED POINT
  - Δ = HEAD
- POLE AND LUMINAIRE, ARROW INDICATES AIMING
- POLE AND TWO LUMINAIRE, ARROWS INDICATE AIMING
- BOLLARD ON CONCRETE BASE
- POST TOP LUMINAIRE
- EXTERIOR WALL PACK - WALL MOUNTED

*** RACEWAYS ***

- SURFACE RACEWAY - CONDUIT UNLESS NOTED OTHERWISE
- CONDUIT CONCEALED IN WALL OR CEILING
- CONDUIT CONCEALED IN FLOOR OR UNDERGROUND
- HOME RUN TO PANELBOARD - NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS
- CABLE TRAY
- LADDER RACK
- CABLE J-HOOKS
- MULTI-OUTLET RACEWAY AS NOTED
  - = FEED POINT / JUNCTION BOX
  - GENERAL NOTE: BOXED DEVICES INDICATE RACEWAY MOUNTED

INFO. JACK · SPECIAL RCPT · DUPLEX RCPT

- JUNCTION BOX
- JUNCTION BOX - WALL MOUNTED
- HANDHOLE BOX - IN GROUND
- GROUND
- SPLICE CONNECTION FROM EXISTING TO NEW
- CONDUIT STUB
- CONDUIT CONTINUATION
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN

*** EQUIPMENT ***

- ### - SPECIAL EQUIPMENT DESIGNATION PER SCHEDULE
- XX | XX | # / ## | ## - EQUIPMENT PLAN MARK PER SCHEDULE
  - XX - EQUIPMENT DESIGNATION
  - ## - EQUIPMENT NUMBER
- MOTOR OUTLET AND CONNECTION
- E - EQUIPMENT CONNECTION
- E - EQUIPMENT CONNECTION - WALL MOUNTED
- FF - FURNITURE FEED CONNECTION
- FF - FURNITURE FEED CONNECTION - WALL MOUNTED
- SAFETY DISCONNECT SWITCH
- MOTOR STARTER OR CONTACTOR
- COMBINATION SAFETY DISCONNECT SWITCH/MOTOR STARTER
- SURFACE BRANCH CIRCUIT PANELBOARD
- FLUSH BRANCH CIRCUIT PANELBOARD
- POWER DISTRIBUTION PANELBOARD
- SPECIAL CABINET AS NOTED - SURFACE MOUNTED
- SPECIAL CABINET AS NOTED - RECESSED MOUNTED
- VARIABLE FREQUENCY DRIVE
- GROUND BAR
- T - TRANSFORMER
- CLEAR - EQUIPMENT - EQUIPMENT SERVICE CLEARANCE

*** WIRING DEVICES ***

TYPICAL DEVICE CLASSIFICATION:

- GFI - INDICATES GROUND FAULT INTERRUPTER DEVICE
- GFP - INDICATES GROUND FAULT PROTECTION UPSTREAM OF DEVICE
- IG - INDICATES ISOLATED GROUND DEVICE
- TR - INDICATES TAMPER RESISTANT DEVICE
- USB - INDICATES USB TYPE DEVICE
- WP - INDICATES DEVICE WITH WEATHERPROOF BOX/FLIPCOVER
- WPD - INDICATES DEVICE WITH WEATHERPROOF BOX/CORD AND PLUG COVER

- DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE - MOUNTED 8" ABOVE COUNTERTOP OR 4"ABOVE BACKSPLASH
- DOUBLE DUPLEX RECEPTACLE - MOUNTED 8" ABOVE COUNTERTOP OR 4" ABOVE BACKSPLASH
- SIMPLEX RECEPTACLE
- DUPLEX RECEPTACLE - IN CEILING
- DUPLEX RECEPTACLE WITH TOP RECEPTACLE SWITCHED
- DUPLEX RECEPTACLE WITH BOTH RECEPTACLES SWITCHED
- DUPLEX RECEPTACLE - EMERGENCY POWER
- OUTLET BOX WITH SPECIAL DEVICE AS NOTED
- ELECTRIC CORD REEL W/ RECEPTACLE DEVICE AS NOTED
- ACTIVATION BOX - IN FLOOR REFER TO THE ACTIVATION BOX SCHEDULE
- ACTIVATION BOX - WALL MOUNTED REFER TO THE ACTIVATION BOX SCHEDULE
- FURNITURE FEED IN ACTIVATION BOX - IN FLOOR REFER TO THE ACTIVATION BOX SCHEDULE
- SINGLE POLE WALL SWITCH
  - 3 - INDICATES 3 WAY SWITCH
  - 4 - INDICATES 4 WAY SWITCH
  - K - INDICATES KEY SWITCH
  - M - INDICATES MOMENTARY SWITCH
  - P/L - INDICATES PILOT LIGHT
  - T - INDICATES TIME SWITCH
- LIGHT DIMMER
- PUSHBUTTON
- LIGHTING CONTROL STATION
- ANY WIRING DEVICE WITH THIS SYMBOL INDICATES SURFACE MOUNTED OUTLET BOX
- CEILING FAN
- POWER POLE
- T - THERMOSTAT - WALL MOUNTED
- OS X(x) - OCCUPANCY SENSOR
  - X - INDICATES TYPE, SEE LIGHTING CONTROL DEVICE SCHEDULE
  - x - INDICATES SWITCH ZONE, IF APPLICABLE
- OS X(x) - OCCUPANCY SENSOR - WALL MOUNTED
  - X - INDICATES TYPE, SEE LIGHTING CONTROL DEVICE SCHEDULE
  - x - INDICATES SWITCH ZONE, IF APPLICABLE
- PS X(x) - PHOTO SENSOR
  - X - INDICATES TYPE, SEE LIGHTING CONTROL DEVICE SCHEDULE
  - x - INDICATES SWITCH ZONE, IF APPLICABLE
- PS X(x) - PHOTO SENSOR - WALL MOUNTED
  - X - INDICATES TYPE, SEE LIGHTING CONTROL DEVICE SCHEDULE
  - x - INDICATES SWITCH ZONE, IF APPLICABLE
- DOOR OPERATOR ACTUATOR - WALL MOUNTED

*** SCHEMATIC RISER DIAGRAM ***

- FEEDER INSTALLATION - LINE VOLTAGE
- FEEDER INSTALLATION - LOW VOLTAGE
- XXXX - FEEDER/CONDUIT PER SCHEDULE
- SAFETY SWITCH/MOTOR DISCONNECT
- T-# / KVA - TRANSFORMER - OIL FILLED
- T-# / KVA - TRANSFORMER - DRY TYPE
- MOTOR STARTER
- METER
- PB - PULL BOX
- JB - JUNCTION BOX
- PANEL OR AS NOTED
- SWITCHBOARD
- VARIABLE FREQUENCY DRIVE
- SPD - SURGE PROTECTION DEVICE
- GROUND
- FUSE
- XXX/x - CIRCUIT BREAKER
  - XXX - INDICATES TRIP RATING
  - x - INDICATES NUMBER OF POLES
- FUSIBLE DISCONNECT SWITCH
- F N L - TRANSFER SWITCH

GENERAL ELECTRICAL DEMOLITION NOTES:

1. UNLESS NOTED OTHERWISE ALL ITEMS TO BE REMOVED AND DISPOSED OF BY CONTRACTOR. SEE DEMOLITION KEY. THE OWNER MAY ELECT TO SALVAGE SELECT ELECTRICAL SYSTEM COMPONENTS. COORDINATE WITH OWNER PRIOR TO DISPOSAL OF EQUIPMENT.
2. WHERE ELECTRICAL EQUIPMENT, WIRING DEVICES, OR COMMUNICATIONS DEVICES ARE NOTED TO BE REMOVED, DEMO CONDUIT AND WIRE BACK TO SOURCE OR NEAREST ACTIVE JUNCTION BOX. WHERE CONDUITS PENETRATE CMU OR CAST-IN-PLACE CONCRETE, CUT CONDUIT FLUSH WITH WALL OR FLOOR. PATCH ALL WALL AND FLOOR PENETRATIONS TO MATCH EXISTING SURFACE. UNDER NO CIRCUMSTANCES SHALL ABANDONED CONDUIT, WIRE, OR ELECTRICAL EQUIPMENT REMAIN AT THE COMPLETION OF CONSTRUCTION.
3. WHERE ON-GRADE FLOORBOXES ARE DEMOED, COORDINATE GROUTING OF BOX WITH GENERAL CONTRACTOR.
4. WHERE ABOVE GRADE POKE-THROUGHS ARE DEMOED, PROVIDE FIRE RATED ABANDONMENT PLUGS. WIREMOLD MODEL ABPLUGX OR EQUAL.
5. ELECTRICAL DEMOLITION DRAWINGS ARE BASED ON FIELD OBSERVATION AND EXISTING DOCUMENTATION WHERE AVAILABLE. EFFORTS HAVE BEEN MADE TO ACCURATELY PORTRAY EXISTING CONDITIONS. DEMOLITION DRAWINGS ARE INTENDED TO CONVEY THE GENERAL SCOPE OF DEMOLITION. MISCELLANEOUS ABANDONED BOXES AND CONDUIT MAY NOT BE INDICATED. ALL ELECTRICAL AND COMMUNICATIONS SYSTEMS, RACEWAYS AND SUPPORTS IN WALLS AND CEILINGS SCHEDULED TO BE REMOVED ARE TO BE DEMOLISHED. CONTRACTOR FIELD VERIFICATION IS REQUIRED.
6. COORDINATE ANY SERVICE OUTAGES AFFECTING AREAS OUTSIDE THE REMODEL AREA WITH OWNER AT LEAST 72 HOURS PRIOR TO OUTAGE. WHERE REQUIRED BY THE OWNER, ANY WORK REQUIRING POWER INTERRUPTION SHALL BE SCHEDULED OUTSIDE OF NORMAL WORKING HOURS.
7. MAINTAIN INTEGRITY OF EXISTING CIRCUIT WIRING SERVING AREAS OUTSIDE THE REMODEL AREA. IF SPECIFIC ITEMS/DEVICES ARE TAKEN OUT OF SERVICE TEMPORARILY TO COMPLETE NEW WORK, RETURN TO SERVICE AS SOON AS POSSIBLE.
8. THE BUILDING WILL REMAIN OCCUPIED AND IN USE FOR THE DURATION OF CONSTRUCTION. REFER TO THE SPECIFICATIONS AS WELL AS PHASING PLANS FOR ADDITIONAL INFORMATION REGARDING WORKING ACCESS WITHIN AND ADJACENT TO OCCUPIED AREAS AND SPECIFIC PHASING REQUIREMENTS.
9. FOR ALL DEMOLISHED FLUORESCENT LIGHT FIXTURES, IT SHALL BE ASSUMED THAT BALLASTS CONTAIN PCB'S AND SHALL BE DISPOSED OF PROPERLY. RECYCLE ALL FLUORESCENT AND HID LAMPS IN ACCORDANCE WITH EPA AND LOCAL REQUIREMENTS.
10. WHERE CEILING SYSTEMS ARE REMOVED, ELECTRICAL CONTRACTOR SHALL PERMANENTLY SUPPORT LOW VOLTAGE CABLING SYSTEMS CURRENTLY SUPPORTED BY CEILING SYSTEM WITH J-HOOKS ON BUILDING STRUCTURE.
11. FOR ALL FLUSH DEVICES TO BE REMOVED IN REMAINING WALLS, COVER ABANDONED OPENING WITH NEW COVERPLATE, UNLESS NOTED OTHERWISE.

GENERAL ELECTRICAL NOTES:

1. ALL ELEMENTS OF THE CONSTRUCTION SHALL BE PERFORMED BY TRADES PEOPLE SKILLED IN THE PARTICULAR CRAFT INVOLVED, AND REGULARLY EMPLOYED IN THAT PARTICULAR CRAFT. ALL WORK SHALL BE PERFORMED IN A NEAT, PROFESSIONAL MANNER IN KEEPING WITH THE HIGHEST STANDARDS OF THE CRAFT.
2. DRAWINGS ARE IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK, AND TO INDICATE THE GENERAL LOCATIONS OF EQUIPMENT AND SOME FEEDERS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT THEIR OWN WORK ACCORDING TO THE FOLLOWING GUIDELINES:
   a. COORDINATE DEVICE LOCATIONS AND HEIGHTS WITH ARCHITECTURAL ELEVATIONS AND DETAILS PRIOR TO ROUGH IN. FIXTURES AND DEVICES TO BE CENTERED AROUND ARCHITECTURAL CONSTRUCTION. VERIFY EXACT BOX ROUGH-IN LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION OF CONDUIT AND WIRE. ARCHITECT RESERVES THE RIGHT TO HAVE THE CONTRACTOR ADJUST BOX LOCATIONS AT THIS TIME.
   b. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS FOR EQUIPMENT AND ROUGH-INS AND THE EXACT ROUTING OF FEEDERS PRIOR TO CONSTRUCTION SO AS TO BEST FIT THE LAYOUT OF THE WORK. SPACE ABOVE CEILINGS IS LIMITED; COORDINATE FINAL LAYOUT WITH ALL TRADES.
   c. WHERE OFFSETS IN FEEDERS ARE REQUIRED TO COORDINATE THE WORK OF OTHER TRADES OR TO MAINTAIN REQUIRED CEILING HEIGHTS, THEY SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
   d. COORDINATE LOCATION OF EQUIPMENT AND ROUTING OF FEEDERS TO MAINTAIN ACCESS TO HEAT PUMPS, MOTORS, ELECTRICAL EQUIPMENT, AND CONTROLS.
   e. CONTRACTOR SHALL INSTALL EQUIPMENT PER CLEARANCES LISTED IN NEC.
3. ALL BRANCH WIRING CONNECTED TO THE NEC ARTICLE 700 EMERGENCY POWER SYSTEM SHALL BE KEPT IN AN ENTIRELY SEPARATE RACEWAY SYSTEM WITH SEPARATE IDENTIFICATION REQUIREMENTS. REFER TO SPECIFICATIONS.
4. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR CONSTRUCTION PHASING AND SCHEDULE REQUIREMENTS.
5. REFER TO SPECIFICATIONS FOR ALTERNATE BID DESCRIPTION INFORMATION.
6. BELOW IS A LIST OF COMMON REQUIREMENTS OUTLINED IN THE PROJECT MANUAL. REFER TO THE PROJECT MANUAL AND STANDARD DETAILS FOR MORE DETAILED INFORMATION FOR THESE ITEMS AND FOR ALL OTHER MATERIALS AND CONSTRUCTION METHODS REQUIRED.
   a. MINIMUM WIRE SIZE TO BE #12 FOR POWER.
   b. WALL BOXES INSTALLED FLUSH IN COMMON WALL SHALL NOT BE BACK-TO-BACK OR THROUGH WALL TYPE.
   c. ALL CONDUITS, JUNCTION BOXES, WIRING, EQUIPMENT, ETC. TO BE PROPERLY LABELED.
   d. PROVIDE GREEN GROUND CONDUCTOR THROUGHOUT ENTIRE ELECTRICAL SYSTEM.
   e. ALL CIRCUITS SHALL HAVE DEDICATED NEUTRALS TO MEET NEC WITHOUT HAVING HANDLE TIES. SHARED NEUTRALS ARE NOT ALLOWED.
7. CUT AND PATCH WALLS AND FLOORS AS REQUIRED FOR INSTALLATION OF NEW SYSTEMS.
   a. ALL OPENINGS IN CONCRETE OR MASONRY CONSTRUCTION SHALL BE CORE DRILLED OR SAW CUT. COORDINATE WITH STRUCTURE AND GENERAL CONTRACTOR AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY AND MINIMIZE SIZE OF OPENINGS.
   b. DO NOT MODIFY STRUCTURAL BUILDING COMPONENTS WITHOUT COORDINATING MODIFICATIONS WITH THE ARCHITECT.
   c. PENETRATIONS FOR ALL CONDUITS AND SLEEVES PASSING THROUGH FIRE AND/OR SMOKE RATED WALLS AND FLOORS SHALL BE PROVIDED WITH FIRESTOPPING TO MAINTAIN THE FIRE RATING. REFER TO ARCHITECTURAL PLANS FOR REQUIRED FIRE RATINGS. REFER TO SPECIFICATIONS FOR FIRE STOPPING REQUIREMENTS.
   d. WHERE CONDUITS OR SLEEVES PASS THROUGH FLOORS, WALLS AND PARTITIONS THAT ARE NOT FIRE OR SMOKE RATED, PENETRATIONS SHALL BE SEALED ON THE OUTSIDE OF THE CONDUIT WITH NON-HARDENING SOUND SEALANT CAULK. FOR SLEEVES, PROVIDE REMOVEABLE SOUND ABSORPTIVE MATERIAL WITHIN BOTH ENDS OF SLEEVE.
   e. COORDINATE INSTALLATION OF ALL ITEMS PENETRATING THE EXTERIOR BUILDING ENVELOPE WITH GENERAL CONTRACTOR. ALL PENETRATIONS SHALL BE WEATHER TIGHT.
   f. PATCH AND FIRE STOP OR SEAL ALL ABANDONED EXISTING OPENINGS.
8. REFER TO DIVISION 27 AND 28 DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
9. COORDINATE CEILING SPACE WITH OTHER TRADES FOR NEW AND EXISTING EQUIPMENT.
10. SYSTEMS SHALL NOT BE SUPPORTED BY MECHANICAL DUCTWORK, MECHANICAL PIPING, SPRINKLER, OR CEILING SYSTEM SUPPORT WIRES. WHERE COORDINATED WITH OTHER TRADES, COMMON SUPPORT STRUCTURES MAY BE UTILIZED.
11. FOR ANY LOCATION WHERE A TEMPERATURE DIFFERENTIAL EXISTS CAUSING CONDENSATION TO OCCUR, INTERIORS OF CONDUITS SHALL BE SEALED WITH DUCT SEAL.
12. WHERE CONDUITS AND CABLE TRAY CROSS BUILDING EXPANSION JOINTS, PROVIDE SUITABLE EXPANSION FITTINGS. UNLESS FITTING IS LISTED FOR BONDING, PROVIDE EXTERNAL BONDING JUMPER.
13. CIRCUIT NUMBERS SHOWN HAVE BEEN CHOSEN TO AID IN DESIGN AND TO PROVIDE CLARITY OF SCOPE OF WORK. ADJUST AS NECESSARY BASED ON FIELD CONDITIONS.
14. ALL 120V RECEPTACLES WITHIN 6' OF SINKS SHALL BE GFCI TYPE.
15. ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL ACOUSTICAL CEILING TILE (ACT) AS REQUIRED TO COMPLETE ELECTRICAL WORK AS INDICATED ON THE PLANS. ANY TILE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
16. PROVIDE UPDATED TYPEWRITTEN CIRCUIT DIRECTORIES AT ALL EXISTING PANELBOARDS WITH NEW OR MODIFIED CIRCUITS.
17. THE BUILDING WILL REMAIN OCCUPIED AND IN USE FOR THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL MAINTAIN ALL CIRCUITS IN OCCUPIED AREAS. ANY WORK REQUIRING POWER INTERRUPTION TO OCCUPIED AREAS SHALL BE SCHEDULED WITH THE OWNER. AFTER-HOURS WORK MAY BE REQUIRED.
18. NEW DEVICES ON EXISTING WALLS SHALL BE INSTALLED WITH CONCEALED RACEWAY AND FLUSH BOXES. WHERE SURFACE BOXES ARE SHOWN IN FINISHED SPACES, PROVIDE SURFACE METAL RACEWAY.

ELECTRICAL DEMOLITION KEYED NOTES

ED-1	REMOVE EXISTING DEVICE AND REINSTALL AFTER COMPLETION OF NEW CEILING GRID.
ED-2	NOT USED.
ED-3	NOT USED.
ED-4	EXISTING DOWNLIGHTS TO REMAIN. SALVAGE AND PROTECT EXISTING LIGHTING CIRCUIT SERVING FIXTURES FOR REUSE.
ED-5	EXISTING CEILING TO BE REMOVED AND REPLACED. REMOVE EXISTING LIGHT FIXTURES AND REINSTALL AFTER COMPLETION OF NEW CEILING GRID. LIGHTING CONTROLS TO BE REPLACED. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
ED-7	NEW RTU TO BE INSTALLED AT LOCATION OF EXISTING. EXISTING FEED TO BE REUSED.
ED-8	120V ELECTRIC RADIANT CEILING PANEL TO BE REMOVED AND REINSTALLED TO FACILITATE CEILING REPLACEMENT. EXISTING CIRCUIT AND LINE-VOLTAGE T-STAT TO REMAIN AND BE RE-USED.
ED-9	SHADE CONTROLS TO BE RELOCATED.
ED-10	DOOR PUSHBUTTONS TO BE RELOCATED
ED-11	SALVAGE EXISTING NORMAL AND EMERGENCY LIGHTING CIRCUITS IN THE AREA FOR REUSE.
ED-12	REMOVE EXISTING OCCUPANCY SENSOR AND SALVAGE EXISTING OPENING FOR REUSE. SEE NEW WORK PLAN FOR ADDITIONAL INFORMATION.
ED-13	DEMOLISH THE WALL AND CEILING PORTIONS OF THE WALL-TO-CEILING LINEAR FIXTURE. REFER TO ARCHITECTURAL FOR WALL PATCHING REQUIREMENTS.

ELECTRICAL KEYED NOTES

E-1	REUSE EXISTING OPENING FOR NEW LIGHTING CONTROLS DEVICE.
E-2	CUT AND FISH EXISTING STUD WALL AS NEEDED TO RECESS NEW DEVICE.
E-3	EXISTING DOWNLIGHTS TO REMAIN. REPROGRAM EXISTING DOWNLIGHT CONTROLS TO NEW LIGHTING CONTROLS SYSTEM SERVING THE SPACE AS INDICATED.
E-4	EXISTING FURNITURE FEED FLOOR ACTIVATION BOX TO BE REUSED FOR NEW FURNITURE. ELECTRICAL CONTRACTOR TO PROVIDE CONNECTIONS NOTED. CIRCUITS NOTED ARE EXISTING CIRCUIT FRO ORIGINAL CONSTRUCTION DOCUMENTS. FIELD VERIFY ACTUAL CIRCUIT NUMBERS.
E-5	EXISTING BRANCH WIRING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION. REMOVE AND REINSTALL DEVICES AND COVERPLATES AS REQUIRED FOR NEW WALL FINISHES.
E-6	CUT AND PATCH FLOOR FOR NEW ON-GRADE FLOOR BOX.
E-7	REINSTALL ALL LIGHT FIXTURES IN THE AREA IN NEW CEILING GRID. PROVIDE NEW LIGHTING CONTROLS AS INDICATED.
E-8	ELECTRIC RADIANT CEILING PANEL FURNISHED WITH LINE-VOLTAGE T-STAT PROVIDED WITH UNIT. DIVISION 26 CONTRACTOR TO PROVIDE 120V CONTROL WIRING TO T-STAT. COORDINATE WITH DIVISION 23. T-STAT TO BE MOUNTED ADJACENT TO ROOM'S LOW-VOLTAGE T-STAT.
E-9	EXISTING 2X4 RADIANT CEILING PANEL CONTROLLED BY EXISTING LINE-VOLTAGE T-STAT. REINSTALL IN NEW ACT.
E-10	RELOCATED SHADE CONTROLS.
E-11	EXTENDED EXISTING DOOR OPERATOR CIRCUIT. XLA-3, OPTIONAL STANDBY.
E-12	UTILIZE EXISTING LIGHTING CIRCUIT RETAINED IN THE AREA TO SERVE NEW LIGHTING.
E-13	NOT USED.
E-14	CUT AND PATCH FLOOR FOR NEW FLOORBOX.
E-15	120V CONNECTION TO MOTORIZED PROJECTION SCREEN. PROJECTION SCREEN PROVIDED BY OWNER. INSTALL CONTROL SWITCH.
E-16	MOTORIZED SHADE CONTROL. COORDINATE REQUIREMENTS WITH SHADE SUPPLIER AND GC.
E-17	INSTALL NEW OCCUPANCY SENSOR IN EXISTING OPENING RETAINED DURING DEMOLITION.
E-18	RELOCATE TIMER SWITCH TO ALLOW ROOM FOR NEW ELECTRICAL EQUIPMENT. PROVIDE CHANNEL STRUT AS REQUIRED TO ALLOW EXISTING RACEWAY TO PASS BEHIND EQUIPMENT.
E-19	PROVIDE 120V CONNECTION AND LOW VOLTAGE RACEWAY AND CONDUCTORS TO PLUMBING TRANSFORMERS AND FIXTURES, SEE DETAIL E100/E530 FOR ADDITIONAL REQUIREMENTS. REVIEW SPECIFIC INTERCONNECTION REQUIREMENTS WITH THE SPECIFIC PLUMBING FIXTURE BEING PROVIDED PRIOR TO BID. THE INSTALLATION REQUIREMENTS VARY SLIGHTLY BETWEEN DIFFERENT MANUFACTURERS.

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

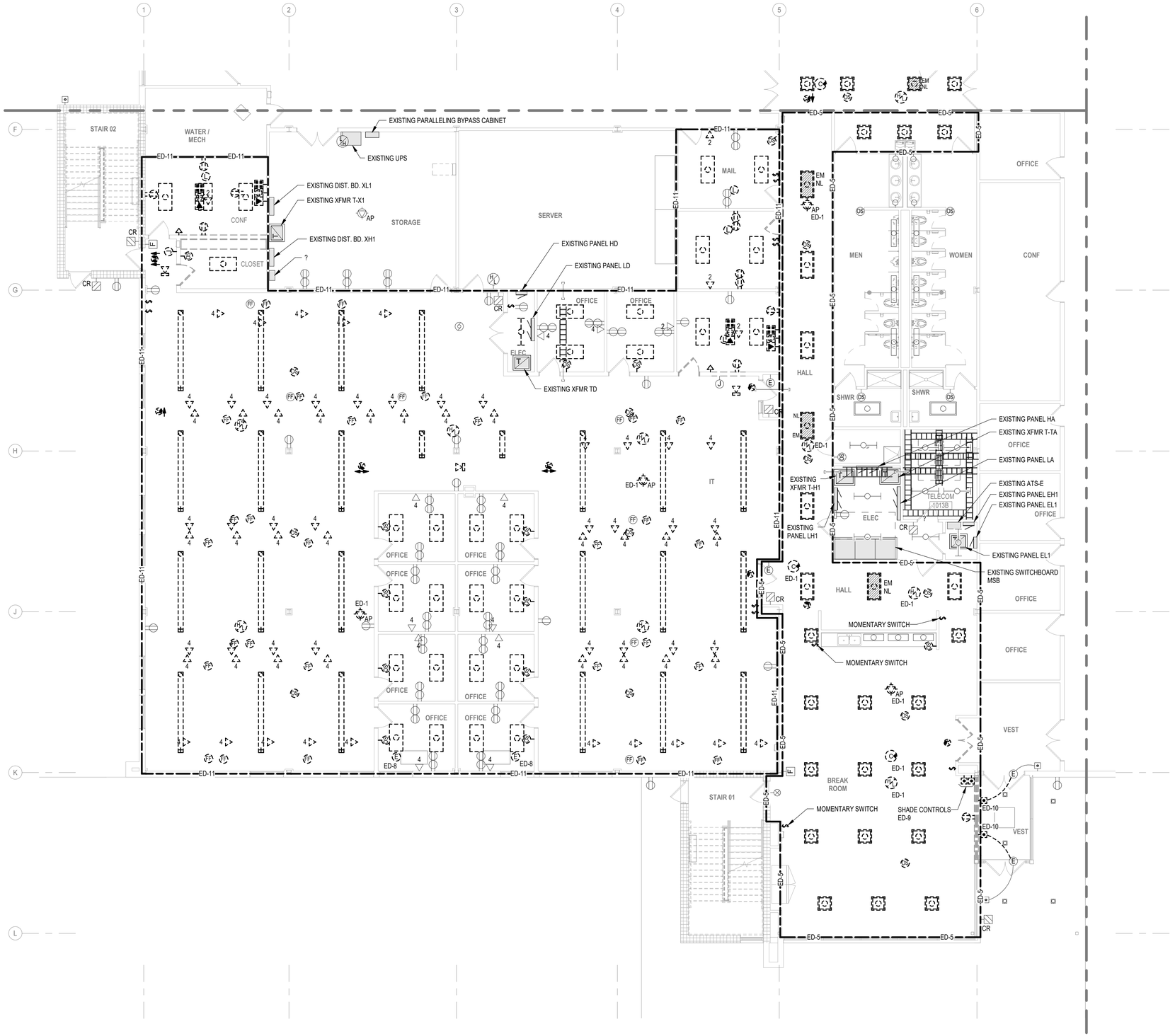
Electrical Notes and Symbols

DATE
07.23.2026

DRAWING NUMBER
E000

BID SET

PROJECT NUMBER
25030



1 ED111.A ELECTRICAL DEMOLITION PLAN - LEVEL 1 - Area A (Southwest)
1/8" = 1'-0"

KEYED NOTES	
ED-1	REMOVE EXISTING DEVICE AND REINSTALL AFTER COMPLETION OF NEW CEILING GRID.
ED-5	EXISTING CEILING TO BE REMOVED AND REPLACED. REMOVE EXISTING LIGHT FIXTURES AND REINSTALL AFTER COMPLETION OF NEW CEILING GRID. LIGHTING CONTROLS TO BE REPLACED. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
ED-8	120V ELECTRIC RADIANT CEILING PANEL TO BE REMOVED AND REINSTALLED TO FACILITATE CEILING REPLACEMENT. EXISTING CIRCUIT AND LINE-VOLTAGE T-STAT TO REMAIN AND BE RE-USED.
ED-9	SHADE CONTROLS TO BE RELOCATED.
ED-10	DOOR PUSHBUTTONS TO BE RELOCATED
ED-11	SALVAGE EXISTING NORMAL AND EMERGENCY LIGHTING CIRCUITS IN THE AREA FOR REUSE.

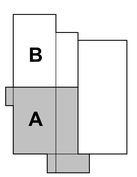
SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

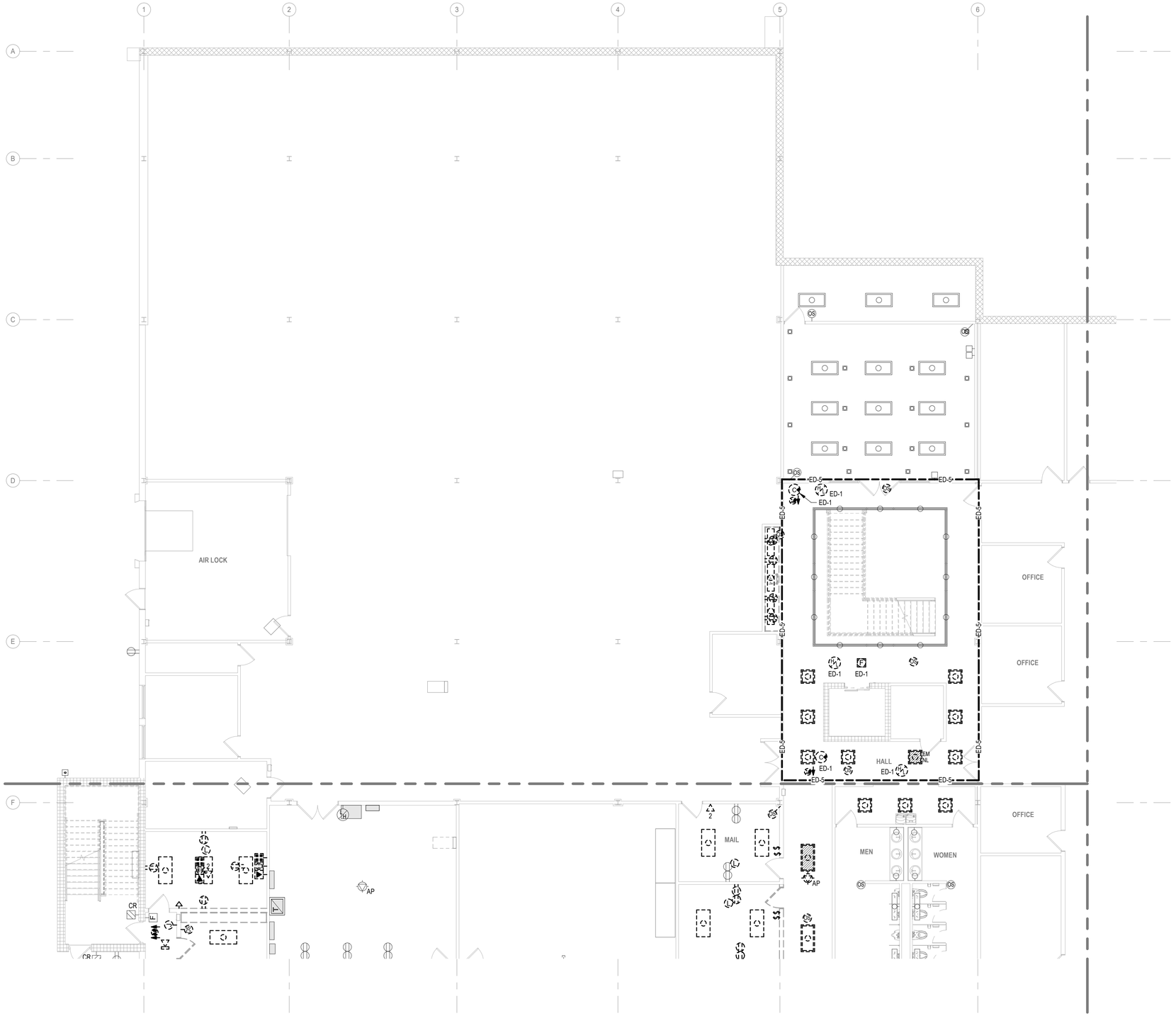
1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Electrical Demolition Plan - Level 1 - Area A



KEY PLAN

DATE 07.23.2026
DRAWING NUMBER ED111.A
BID SET
PROJECT NUMBER 25030

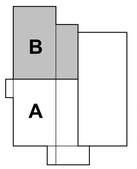


1 ED111.B ELECTRICAL DEMOLITION PLAN - LEVEL 1 - Area B (Northwest)
1/8" = 1'-0"

KEYED NOTES

ED-1	REMOVE EXISTING DEVICE AND REINSTALL AFTER COMPLETION OF NEW CEILING GRID.
ED-5	EXISTING CEILING TO BE REMOVED AND REPLACED. REMOVE EXISTING LIGHT FIXTURES AND REINSTALL AFTER COMPLETION OF NEW CEILING GRID. LIGHTING CONTROLS TO BE REPLACED. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.

DEMOLITION KEY
- TO REMAIN
- TO BE REMOVED / REVISED
- EQUIPMENT TO REMAIN
- EQUIPMENT TO BE REMOVED / REVISED



KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

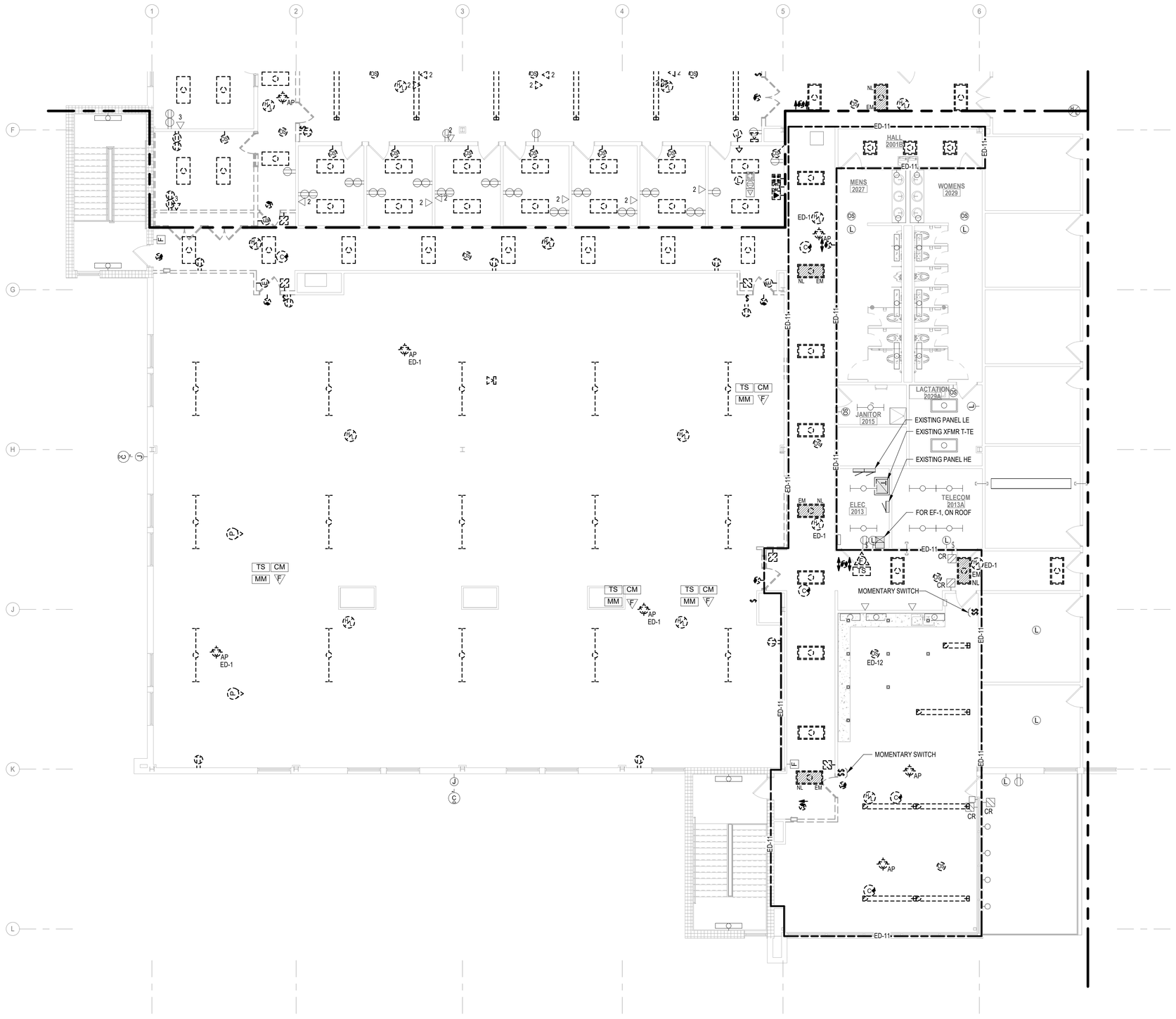
All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Electrical Demolition Plan - Level 1 - Area B

DATE 07.23.2026
DRAWING NUMBER ED111.B
PROJECT NUMBER 25030
BID SET



1 ED112.A ELECTRICAL DEMOLITION PLAN - LEVEL 2 - Area A (Southwest)
1/8" = 1'-0"

KEYED NOTES	
ED-1	REMOVE EXISTING DEVICE AND REINSTALL AFTER COMPLETION OF NEW CEILING GRID.
ED-11	SALVAGE EXISTING NORMAL AND EMERGENCY LIGHTING CIRCUITS IN THE AREA FOR REUSE.
ED-12	REMOVE EXISTING OCCUPANCY SENSOR AND SALVAGE EXISTING OPENING FOR REUSE. SEE NEW WORK PLAN FOR ADDITIONAL INFORMATION.

DEMOLITION KEY
- TO REMAIN
- TO BE REMOVED / REVISED
- EQUIPMENT TO REMAIN
- EQUIPMENT TO BE REMOVED / REVISED

KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

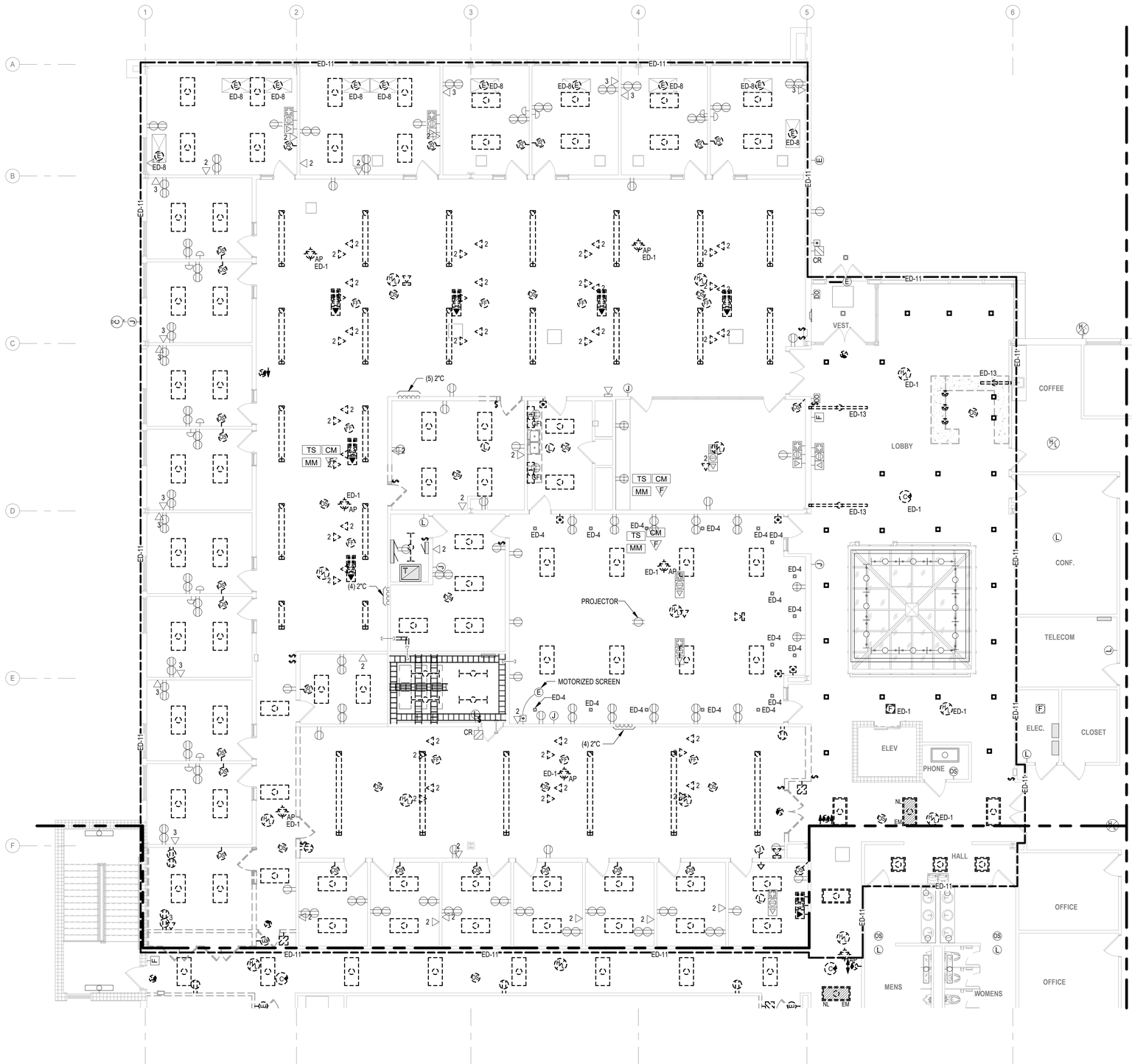
All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Electrical Demolition Plan - Level 2 - Area A

DATE 07.23.2026
DRAWING NUMBER ED112.A
BID SET
PROJECT NUMBER 25030



1 ED112.B ELECTRICAL DEMOLITION PLAN - LEVEL 2 - Area B (Northwest)
1/8" = 1'-0"

KEYED NOTES

ED-1	REMOVE EXISTING DEVICE AND REINSTALL AFTER COMPLETION OF NEW CEILING GRID.
ED-4	EXISTING DOWNLIGHTS TO REMAIN. SALVAGE AND PROTECT EXISTING LIGHTING CIRCUIT SERVING FIXTURES FOR REUSE.
ED-8	120V ELECTRIC RADIANT CEILING PANEL TO BE REMOVED AND REINSTALLED TO FACILITATE CEILING REPLACEMENT. EXISTING CIRCUIT AND LINE-VOLTAGE T-STAT TO REMAIN AND BE RE-USED.
ED-11	SALVAGE EXISTING NORMAL AND EMERGENCY LIGHTING CIRCUITS IN THE AREA FOR REUSE.
ED-13	DEMOLISH THE WALL AND CEILING PORTIONS OF THE WALL-TO-CEILING LINEAR FIXTURE. REFER TO ARCHITECTURAL FOR WALL PATCHING REQUIREMENTS.

DEMOLITION KEY
- TO REMAIN
- TO BE REMOVED / REVISED
- EQUIPMENT TO REMAIN
- EQUIPMENT TO BE REMOVED / REVISED

KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

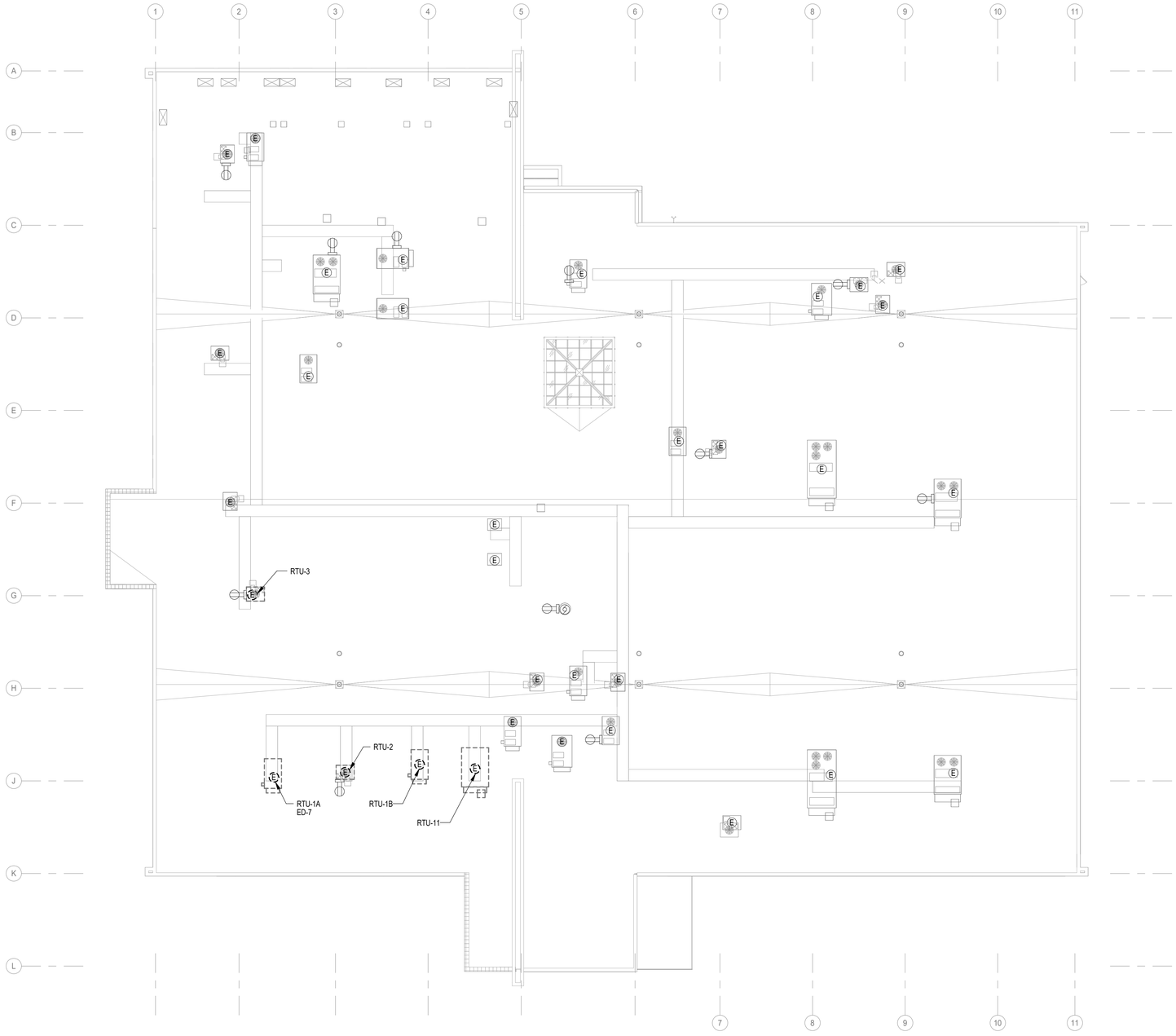
REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Electrical Demolition Plan - Level 2 - Area B

DATE 07.23.2026
DRAWING NUMBER ED112.B
PROJECT NUMBER 25030

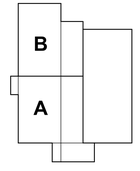
BID SET



1 ED113 OVERALL POWER PLAN - ROOF Copy 1
1/16" = 1'-0"

KEYED NOTES	
ED-7	NEW RTU TO BE INSTALLED AT LOCATION OF EXISTING. EXISTING FEED TO BE REUSED.

NEW WORK KEY
- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT



KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

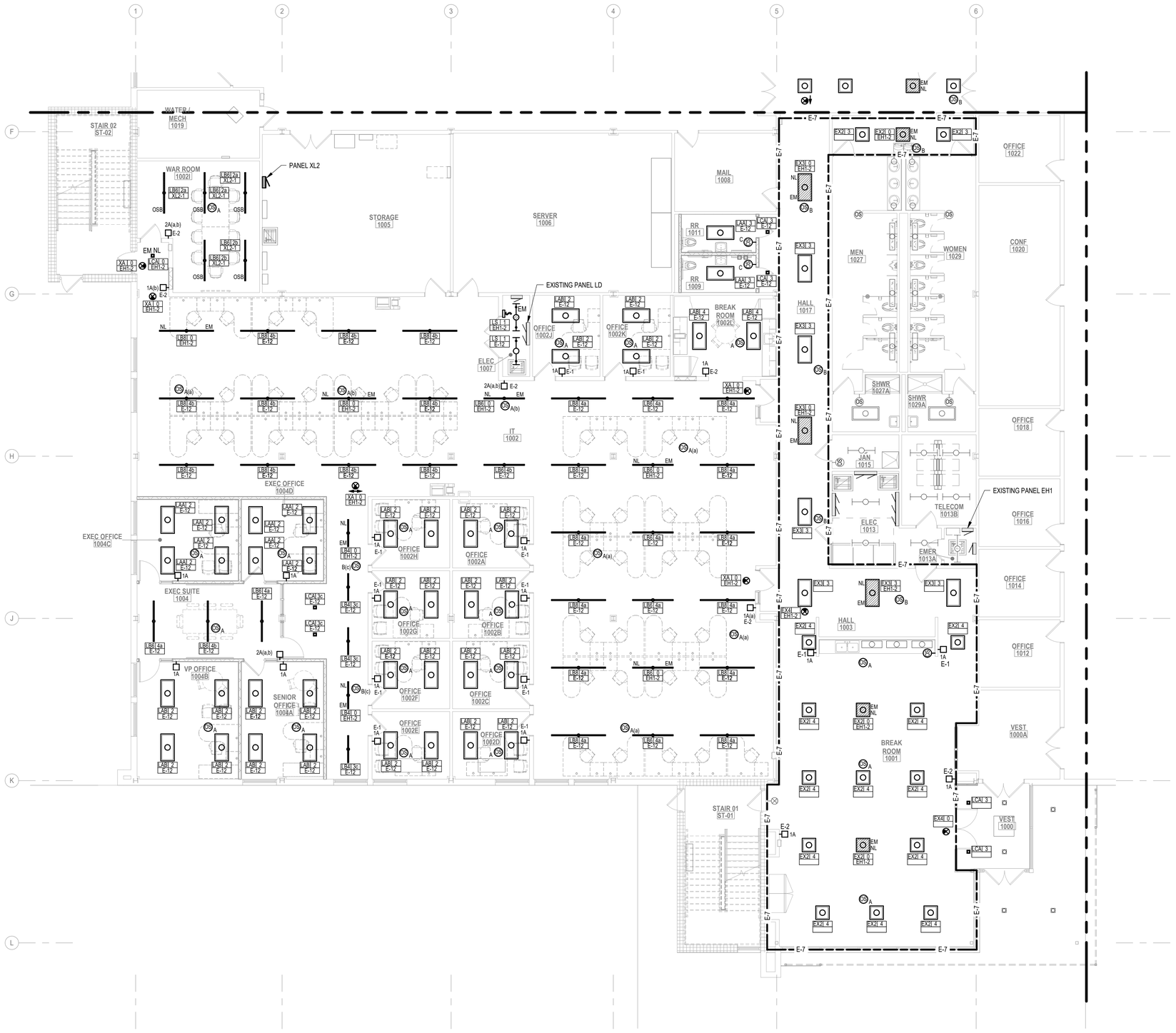
Kirkwood East Hall - Remodel

Overall Electrical Demolition Plan - Roof

DATE
07.23.2026
DRAWING NUMBER
ED113

BID SET

PROJECT NUMBER
25030



1 E111.A LIGHTING PLAN - LEVEL 1 - Area A (Southwest)
1/8" = 1'-0"

N

KEYED NOTES	
E-1	REUSE EXISTING OPENING FOR NEW LIGHTING CONTROLS DEVICE.
E-2	CUT AND FISH EXISTING STUD WALL AS NEEDED TO RECESS NEW DEVICE.
E-7	REINSTALL ALL LIGHT FIXTURES IN THE AREA IN NEW CEILING GRID. PROVIDE NEW LIGHTING CONTROLS AS INDICATED.
E-12	UTILIZE EXISTING LIGHTING CIRCUIT RETAINED IN THE AREA TO SERVE NEW LIGHTING.

LIGHTING/SWITCHING KEY
LIGHTING
FIXTURE TYPE PER SCHEDULE — XXXX ##X — LIGHTING CONTROLS OPERATION SEQUENCE (0,1,2,...) PER DETAILS SHEETS; SWITCHING ZONE (a,b,c...); CIRCUIT DATA: PANEL NAME-CIRCUIT NUMBER (XXXX-###) OR CIRCUIT NOTE (E-#)
EM: EMERGENCY FIXTURE OSB: OPTIONAL STANDBY CR: CRITICAL NL: NIGHT LIGHT
COORDINATE CEILING MOUNTED DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN
SWITCHING
#X(x,x) - LIGHTING CONTROL STATION
#X - INDICATES SWITCH CONTROLS, REFER TO LIGHTING CONTROL STATION CONFIGURATION DETAIL (x,x) - INDICATES SWITCHING ZONE(S) +## - DIMENSION INDICATES HEIGHT TO CENTER OF SWITCH ABOVE FINISH FLOOR (+48" TO CENTER IF NOT SHOWN)

NEW WORK KEY
EXISTING
NEW / REVISED
EXISTING EQUIPMENT
NEW / REVISED EQUIPMENT

KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

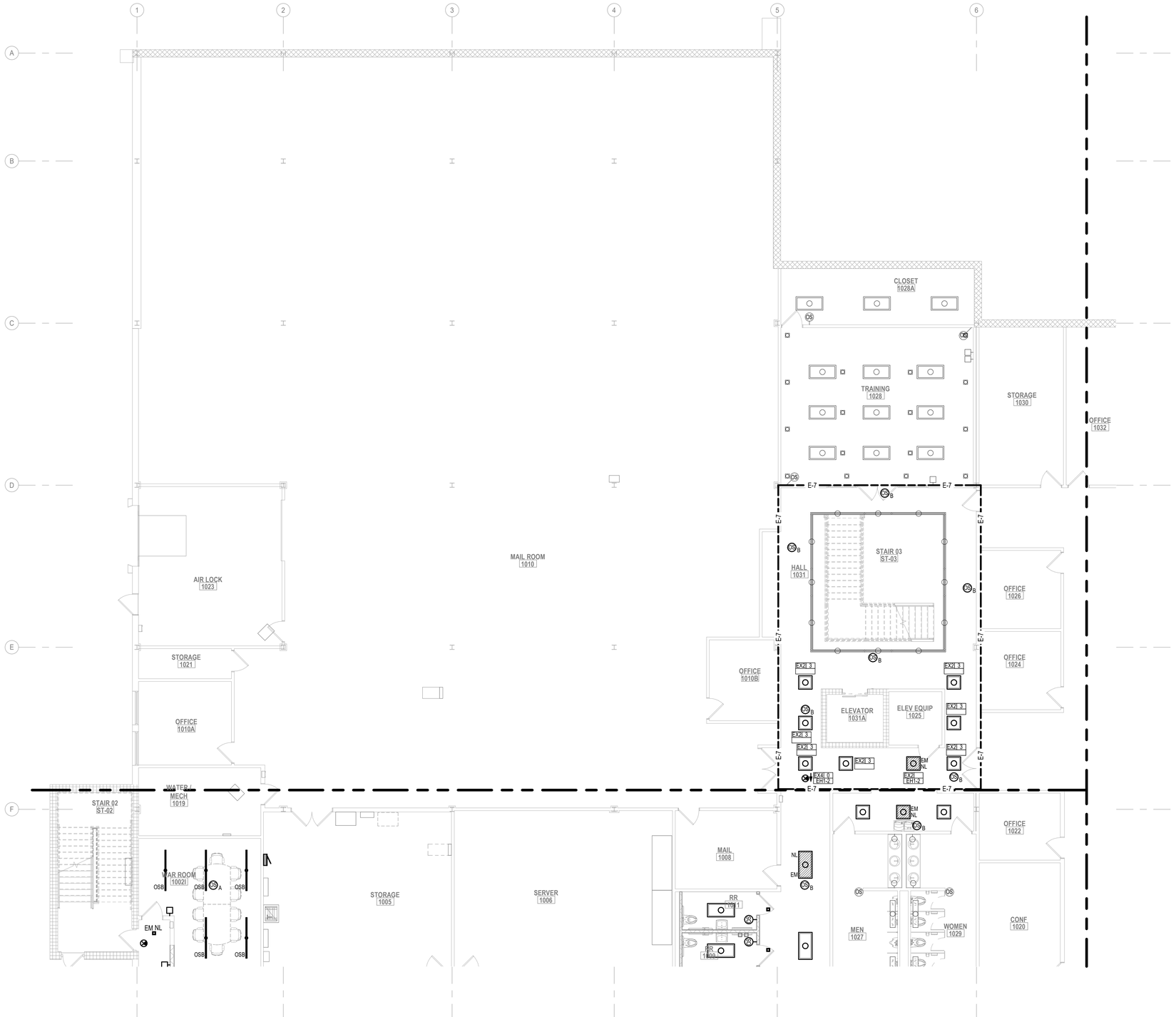
REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

Lighting Plan - Level 1 - Area A

DATE 07.23.2026
DRAWING NUMBER E111.A
BID SET
PROJECT NUMBER 25030



1 / E111.B LIGHTING PLAN - LEVEL 1 - Area B (Northwest)
1/8" = 1'-0"

KEYED NOTES

E-7	REINSTALL ALL LIGHT FIXTURES IN THE AREA IN NEW CEILING GRID. PROVIDE NEW LIGHTING CONTROLS AS INDICATED.

LIGHTING/SWITCHING KEY

LIGHTING

FIXTURE TYPE PER SCHEDULE — XXXX|##x — LIGHTING CONTROLS OPERATION SEQUENCE (0,1,2,...) PER DETAILS SHEETS; SWITCHING ZONE (a,b,c...); CIRCUIT DATA: PANEL NAME-CIRCUIT NUMBER (XXXX-###) OR CIRCUIT NOTE (E-#)

EM: EMERGENCY FIXTURE
OSB: OPTIONAL STANDBY
CR: CRITICAL
NL: NIGHT LIGHT

COORDINATE CEILING MOUNTED DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN

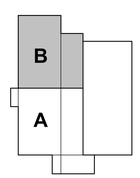
SWITCHING

#X(x,x) - LIGHTING CONTROL STATION

#X - INDICATES SWITCH CONTROLS, REFER TO LIGHTING CONTROL STATION CONFIGURATION DETAIL
(x,x) - INDICATES SWITCHING ZONE(S)
+## - DIMENSION INDICATES HEIGHT TO CENTER OF SWITCH ABOVE FINISH FLOOR (+46" TO CENTER IF NOT SHOWN)

NEW WORK KEY

- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT



KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

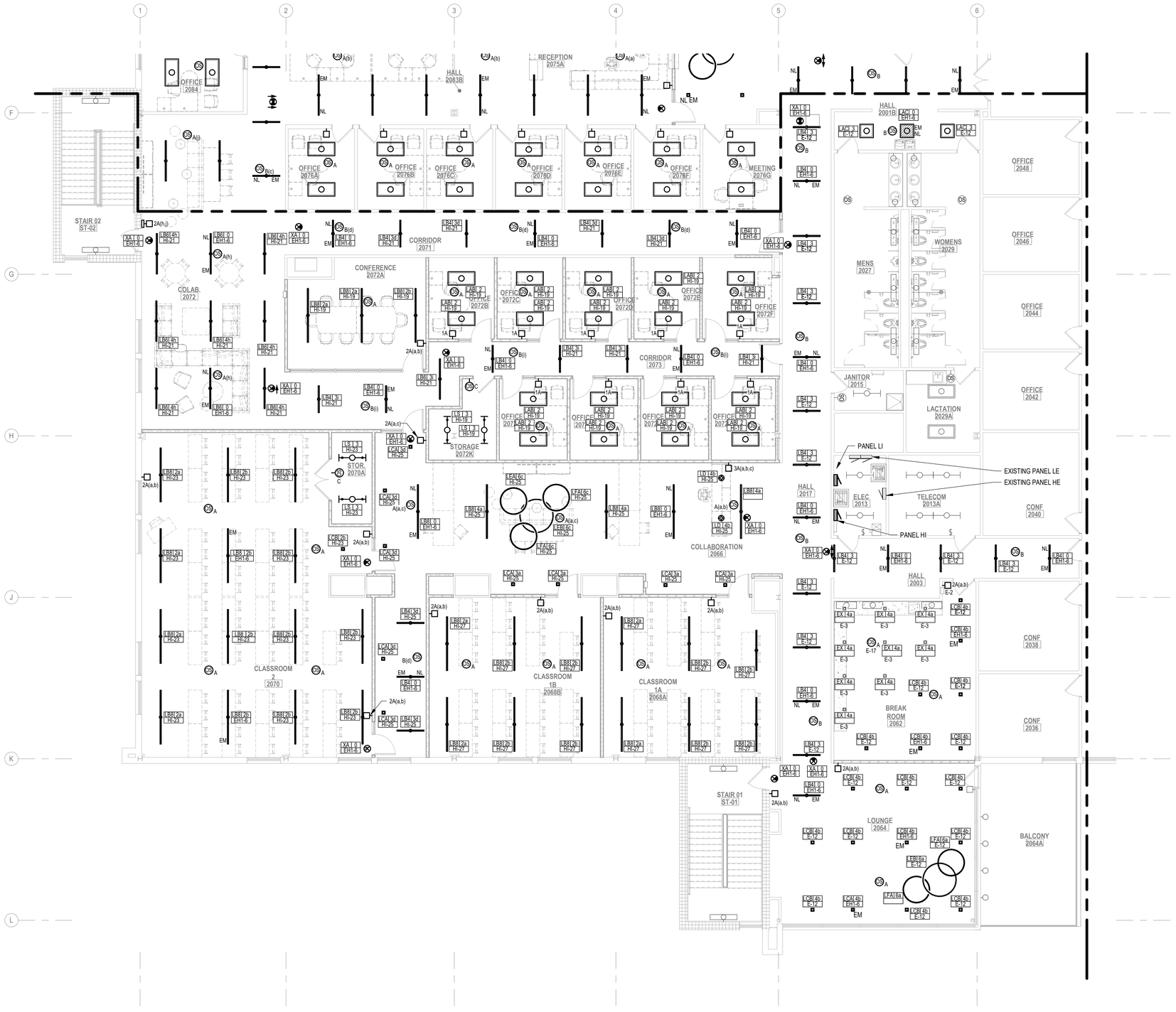
Kirkwood East Hall - Remodel

Lighting Plan - Level 1 - Area B

DATE
07.23.2026
DRAWING NUMBER
E111.B

BID SET

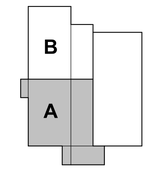
PROJECT NUMBER
25030



KEYED NOTES	
E-2	CUT AND FISH EXISTING STUD WALL AS NEEDED TO RECESS NEW DEVICE.
E-3	EXISTING DOWNLIGHTS TO REMAIN. REPROGRAM EXISTING DOWNLIGHT CONTROLS TO NEW LIGHTING CONTROLS SYSTEM SERVING THE SPACE AS INDICATED.
E-12	UTILIZE EXISTING LIGHTING CIRCUIT RETAINED IN THE AREA TO SERVE NEW LIGHTING.
E-17	INSTALL NEW OCCUPANCY SENSOR IN EXISTING OPENING RETAINED DURING DEMOLITION.

LIGHTING/SWITCHING KEY
LIGHTING
FIXTURE TYPE PER SCHEDULE — XXXX##x — LIGHTING CONTROLS OPERATION SEQUENCE (0,1,2,...) PER DETAILS SHEETS; SWITCHING ZONE (a,b,c...); CIRCUIT DATA: PANEL NAME-CIRCUIT NUMBER (XXXX-###) OR CIRCUIT NOTE (E-#)
EM: EMERGENCY FIXTURE OSB: OPTIONAL STANDBY CR: CRITICAL NL: NIGHT LIGHT
COORDINATE CEILING MOUNTED DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN
SWITCHING
#X(x,x) - LIGHTING CONTROL STATION
#X - INDICATES SWITCH CONTROLS, REFER TO LIGHTING CONTROL STATION CONFIGURATION DETAIL (x,x) - INDICATES SWITCHING ZONE(S) '+##' - DIMENSION INDICATES HEIGHT TO CENTER OF SWITCH ABOVE FINISH FLOOR ('+46" TO CENTER IF NOT SHOWN)

NEW WORK KEY
EXISTING
NEW / REVISED
EXISTING EQUIPMENT
NEW / REVISED EQUIPMENT



KEY PLAN

1 E112.A LIGHTING PLAN - LEVEL 2 - Area A (Southwest)
1/8" = 1'-0"

N

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

Lighting Plan - Level 2 - Area A

DATE
07.23.2026
DRAWING NUMBER
E112.A

BID SET

PROJECT NUMBER
25030



1 / E112.B LIGHTING PLAN - LEVEL 2 - Area B (Northwest)
1/8" = 1'-0"

KEYED NOTES

E-1	REUSE EXISTING OPENING FOR NEW LIGHTING CONTROLS DEVICE.
E-2	CUT AND FISH EXISTING STUD WALL AS NEEDED TO RECESS NEW DEVICE.
E-3	EXISTING DOWNLIGHTS TO REMAIN. REPROGRAM EXISTING DOWNLIGHT CONTROLS TO NEW LIGHTING CONTROLS SYSTEM SERVING THE SPACE AS INDICATED.
E-12	UTILIZE EXISTING LIGHTING CIRCUIT RETAINED IN THE AREA TO SERVE NEW LIGHTING.

LIGHTING/SWITCHING KEY

LIGHTING

FIXTURE TYPE PER SCHEDULE — XXXX|##| — LIGHTING CONTROLS OPERATION SEQUENCE (0,1,2...) PER DETAILS SHEETS; SWITCHING ZONE (a,b,c...); CIRCUIT DATA: PANEL NAME-CIRCUIT NUMBER (XXXX-###) OR CIRCUIT NOTE (E-#)

EM: EMERGENCY FIXTURE
OSB: OPTIONAL STANDBY
CR: CRITICAL
NL: NIGHT LIGHT

COORDINATE CEILING MOUNTED DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN

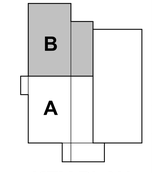
SWITCHING

#X(x,x) - LIGHTING CONTROL STATION

#X - INDICATES SWITCH CONTROLS, REFER TO LIGHTING CONTROL STATION CONFIGURATION DETAIL
(x,x) - INDICATES SWITCHING ZONE(S)
+## - DIMENSION INDICATES HEIGHT TO CENTER OF SWITCH ABOVE FINISH FLOOR (+46" TO CENTER IF NOT SHOWN)

NEW WORK KEY

- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT



KEY PLAN

N

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

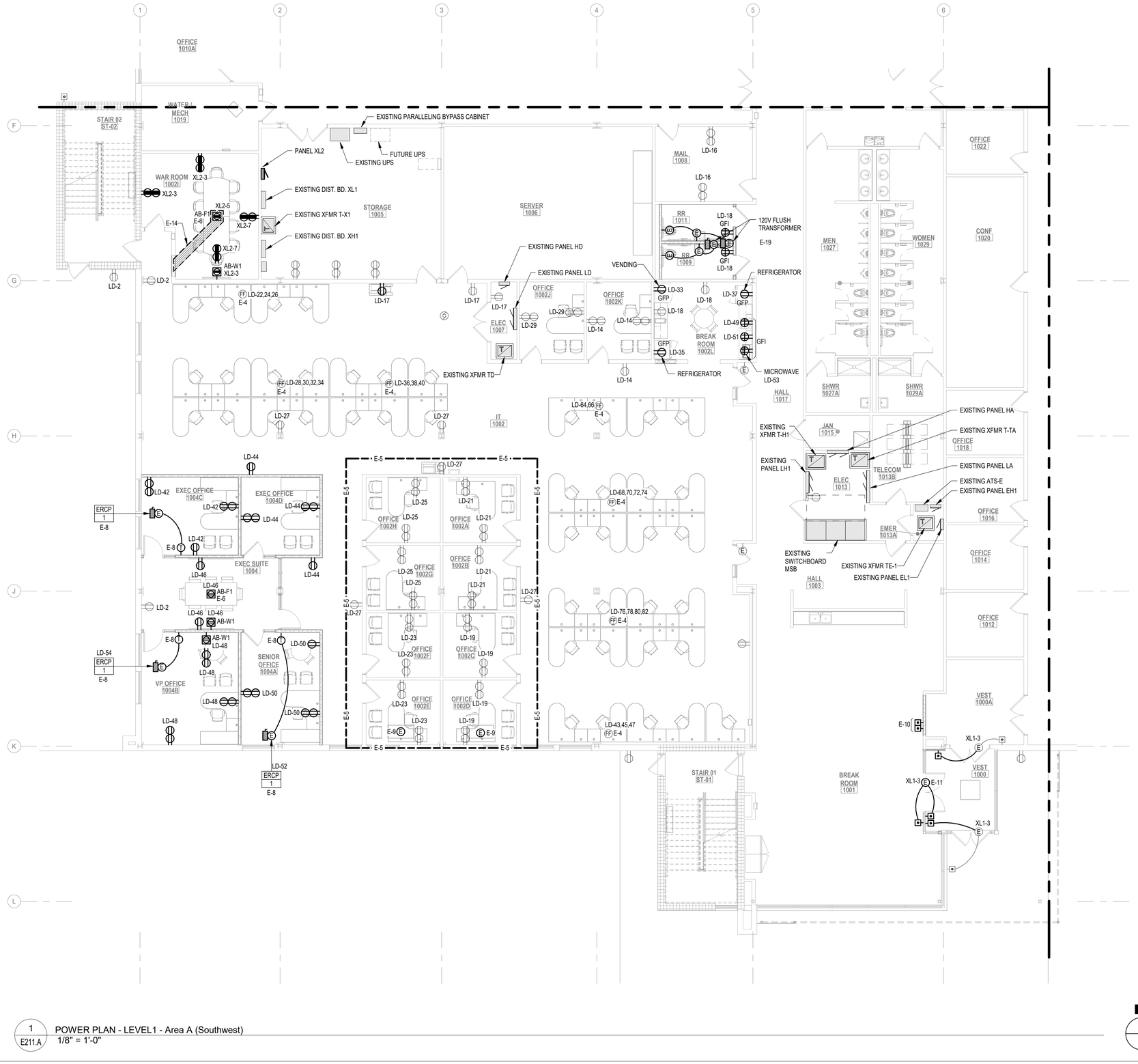
1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

Lighting Plan - Level 2 - Area B

DATE 07.23.2026
DRAWING NUMBER E112.B
PROJECT NUMBER 25030

BID SET



KEYED NOTES	
E-4	EXISTING FURNITURE FEED FLOOR ACTIVATION BOX TO BE REUSED FOR NEW FURNITURE. ELECTRICAL CONTRACTOR TO PROVIDE CONNECTIONS NOTED. CIRCUITS NOTED ARE EXISTING CIRCUIT FRO ORIGINAL CONSTRUCTION DOCUMENTS. FIELD VERIFY ACTUAL CIRCUIT NUMBERS.
E-5	EXISTING BRANCH WIRING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION. REMOVE AND REINSTALL DEVICES AND COVERPLATES AS REQUIRED FOR NEW WALL FINISHES.
E-6	CUT AND PATCH FLOOR FOR NEW ON-GRADE FLOOR BOX.
E-8	ELECTRIC RADIANT CEILING PANEL FURNISHED WITH LINE-VOLTAGE T-STAT PROVIDED WITH UNIT. DIVISION 26 CONTRACTOR TO PROVIDE 120V CONTROL WIRING TO T-STAT. COORDINATE WITH DIVISION 23. T-STAT TO BE MOUNTED ADJACENT TO ROOM'S LOW-VOLTAGE T-STAT.
E-9	EXISTING 2X4 RADIANT CEILING PANEL CONTROLLED BY EXISTING LINE-VOLTAGE T-STAT. REINSTALL IN NEW ACT.
E-10	RELOCATED SHADE CONTROLS.
E-11	EXTENDED EXISTING DOOR OPERATOR CIRCUIT. XLA-3, OPTIONAL STANDBY.
E-14	CUT AND PATCH FLOOR FOR NEW FLOORBOX.
E-19	PROVIDE 120V CONNECTION AND LOW VOLTAGE RACEWAY AND CONDUCTORS TO PLUMBING TRANSFORMERS AND FIXTURES, SEE DETAIL E100/E530 FOR ADDITIONAL REQUIREMENTS. REVIEW SPECIFIC INTERCONNECTION REQUIREMENTS WITH THE SPECIFIC PLUMBING FIXTURE BEING PROVIDED PRIOR TO BID. THE INSTALLATION REQUIREMENTS VARY SLIGHTLY BETWEEN DIFFERENT MANUFACTURERS.

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

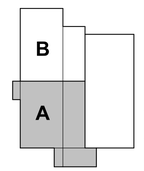
1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

Power Plan - Level 1 - Area A

NEW WORK KEY
- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT

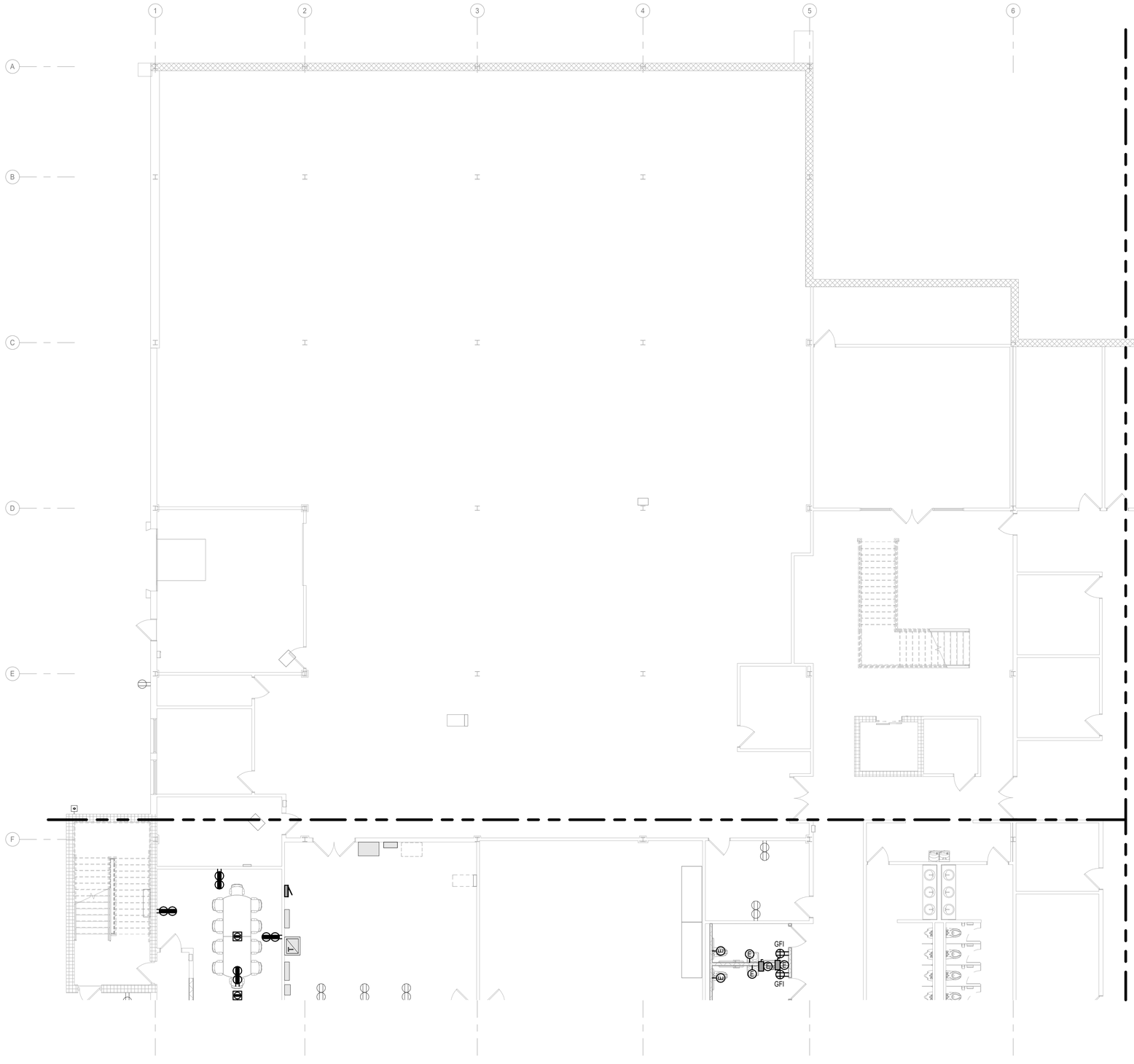
KEY PLAN



DATE
07.23.2026
DRAWING NUMBER
E211.A
PROJECT NUMBER
25030
BID SET

1 / E211.A POWER PLAN - LEVEL1 - Area A (Southwest)
1/8" = 1'-0"

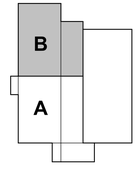
N



KEYED NOTES

NEW WORK KEY

- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT



KEY PLAN

1 E211.B POWER PLAN - LEVEL 1 - Area B (Northwest)
1/8" = 1'-0"

N

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

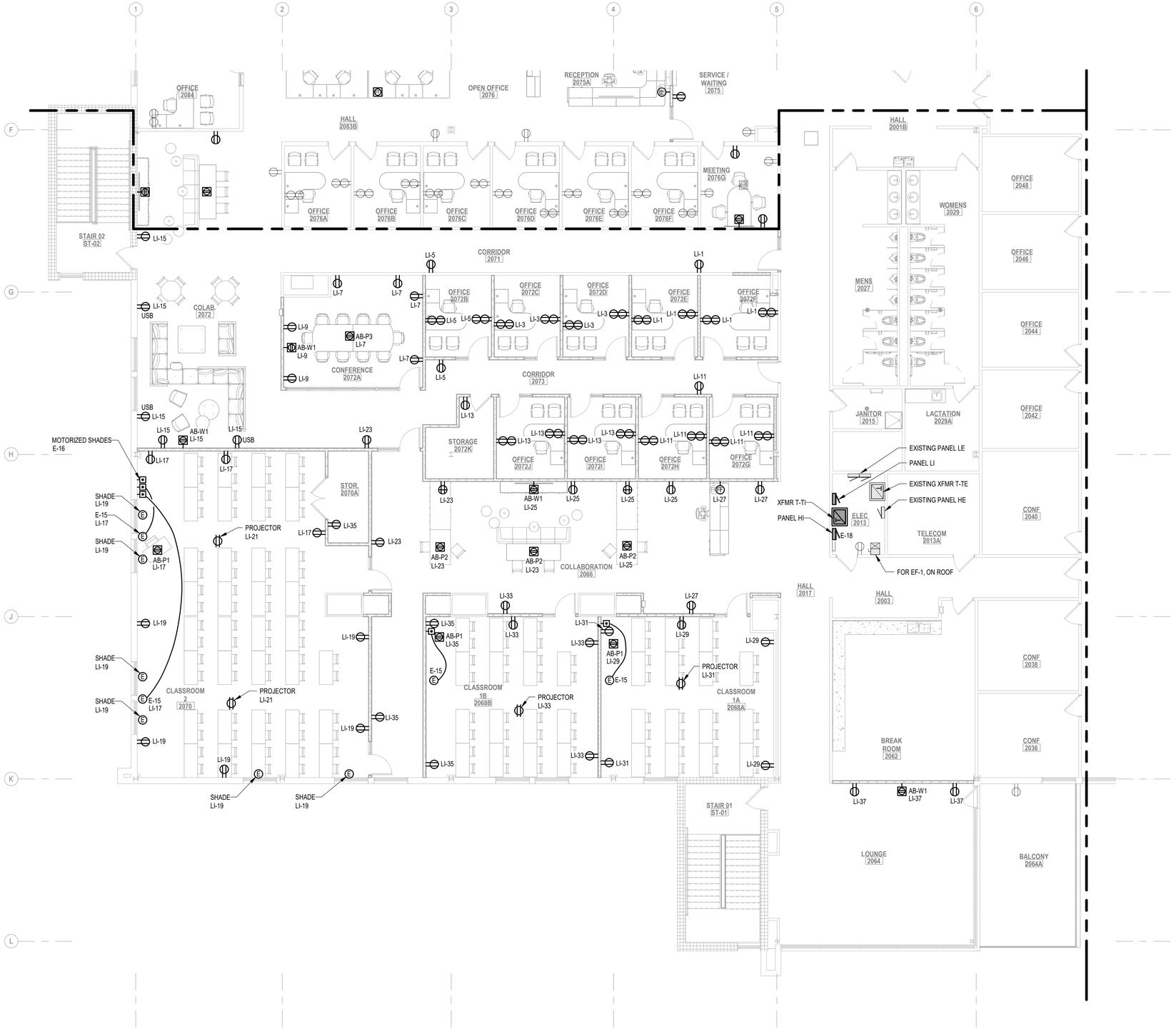
Power Plan - Level 1 - Area B

DATE
07.23.2026

DRAWING NUMBER
E211.B

BID SET

PROJECT NUMBER
25030



1 E212.A POWER PLAN - LEVEL 2 - Area A (Southwest)
1/8" = 1'-0"

KEYED NOTES	
E-15	120V CONNECTION TO MOTORIZED PROJECTION SCREEN. PROJECTION SCREEN PROVIDED BY OWNER. INSTALL CONTROL SWITCH.
E-16	MOTORIZED SHADE CONTROL. COORDINATE REQUIREMENTS WITH SHADE SUPPLIER AND GC.
E-18	RELOCATE TIMER SWITCH TO ALLOW ROOM FOR NEW ELECTRICAL EQUIPMENT. PROVIDE CHANNEL STRUT AS REQUIRED TO ALLOW EXISTING RACEWAY TO PASS BEHIND EQUIPMENT.

NEW WORK KEY
- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT

KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

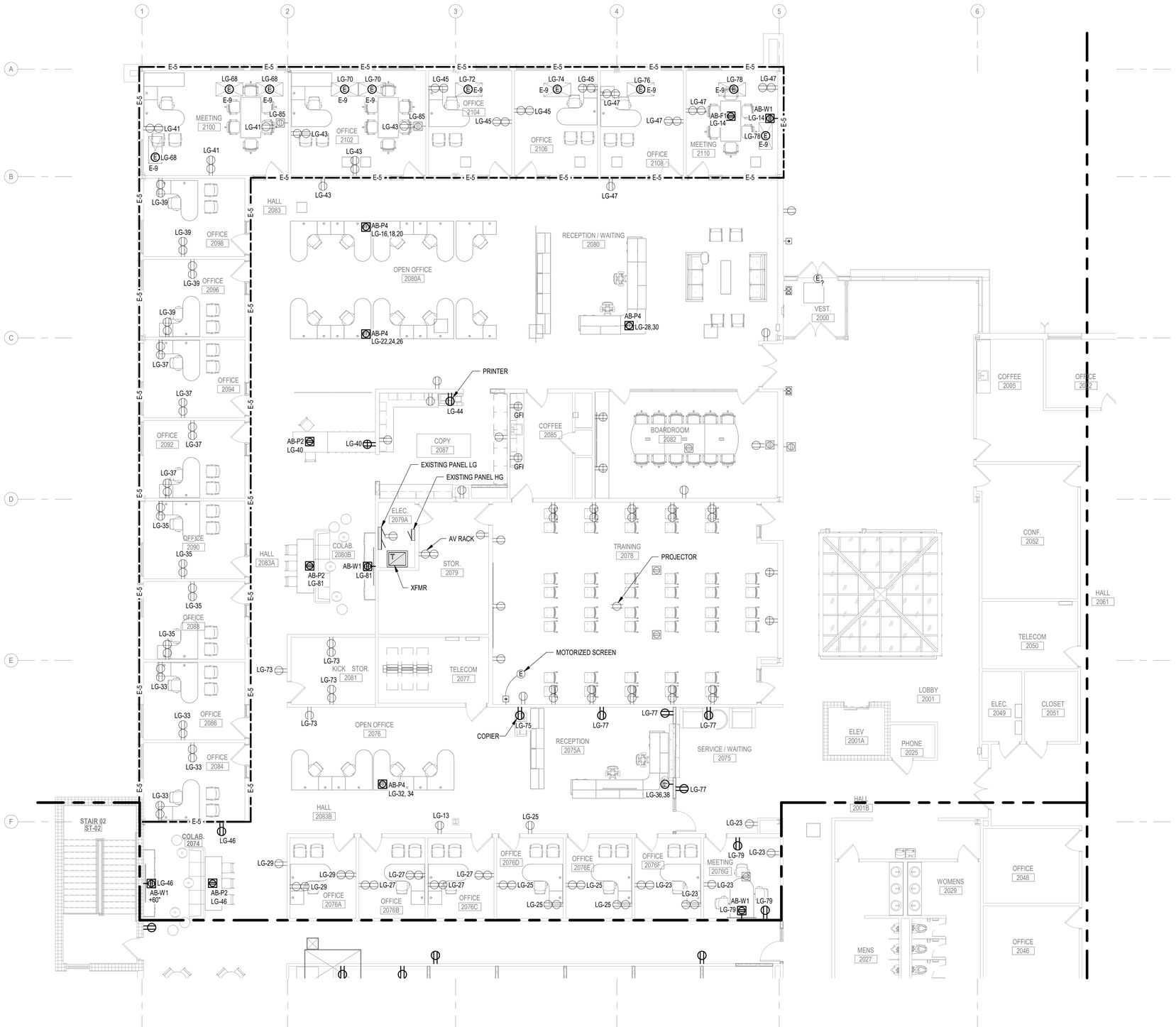
REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Power Plan - Level 2 - Area A

DATE 07.23.2026
DRAWING NUMBER E212.A
PROJECT NUMBER 25030

BID SET



KEYED NOTES	
E-5	EXISTING BRANCH WIRING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION. REMOVE AND REINSTALL DEVICES AND COVERPLATES AS REQUIRED FOR NEW WALL FINISHES.
E-9	EXISTING 2X4 RADIANT CEILING PANEL CONTROLLED BY EXISTING LINE-VOLTAGE T-STAT. REINSTALL IN NEW ACT.

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

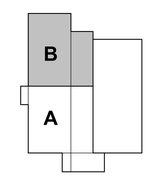
REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

Power Plan - Level 2 - Area B

NEW WORK KEY
EXISTING
NEW / REVISED
EXISTING EQUIPMENT
NEW / REVISED EQUIPMENT

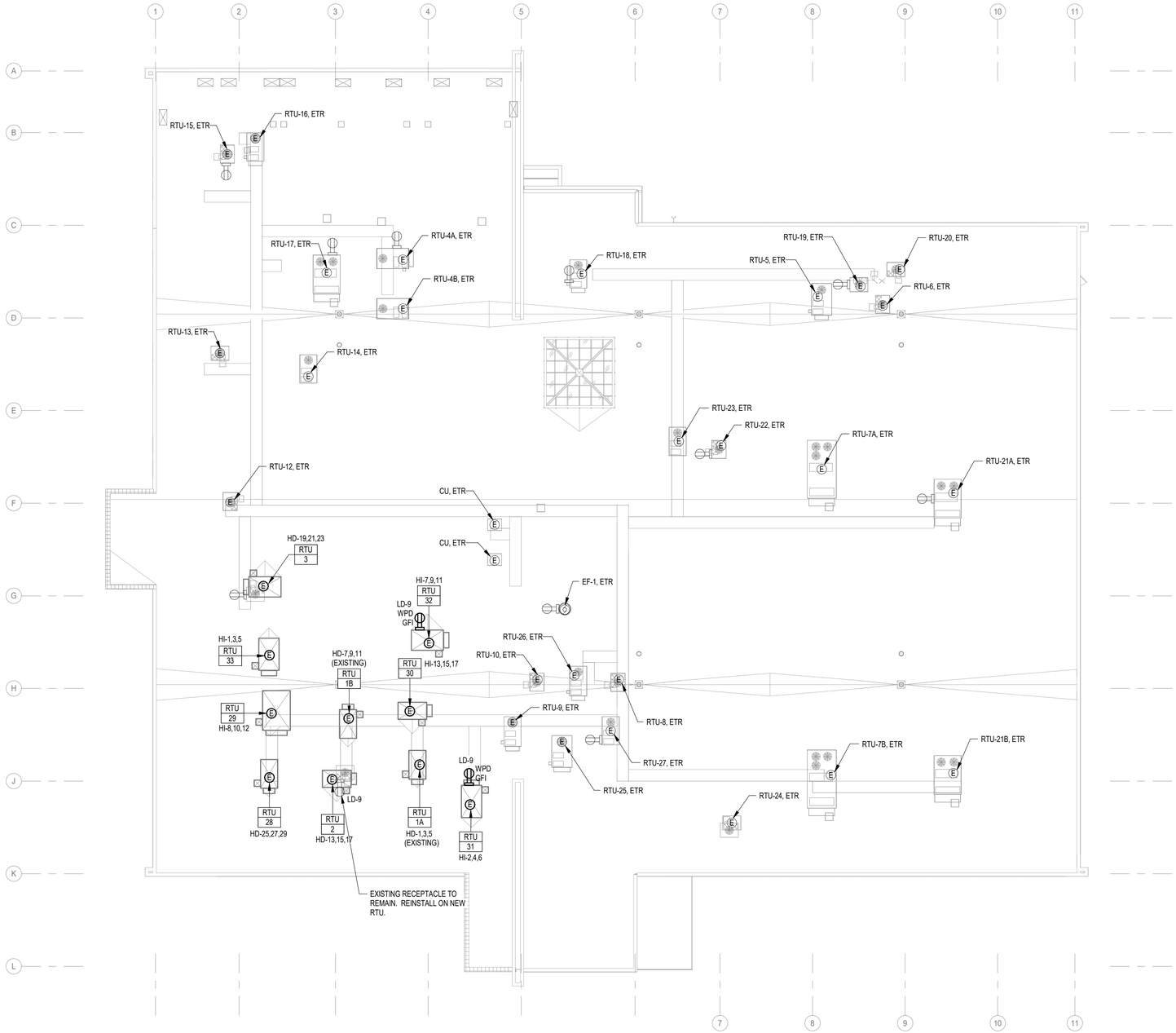


KEY PLAN

DATE
07.23.2026
DRAWING NUMBER
E212.B
PROJECT NUMBER
25030

BID SET

1
E212.B
POWER PLAN - LEVEL 2 - Area B (Northwest)
1/8" = 1'-0"



1 E213 OVERALL POWER PLAN - ROOF
1/16" = 1'-0"

KEYED NOTES

NEW WORK KEY
- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT

KEY PLAN

BID SET

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

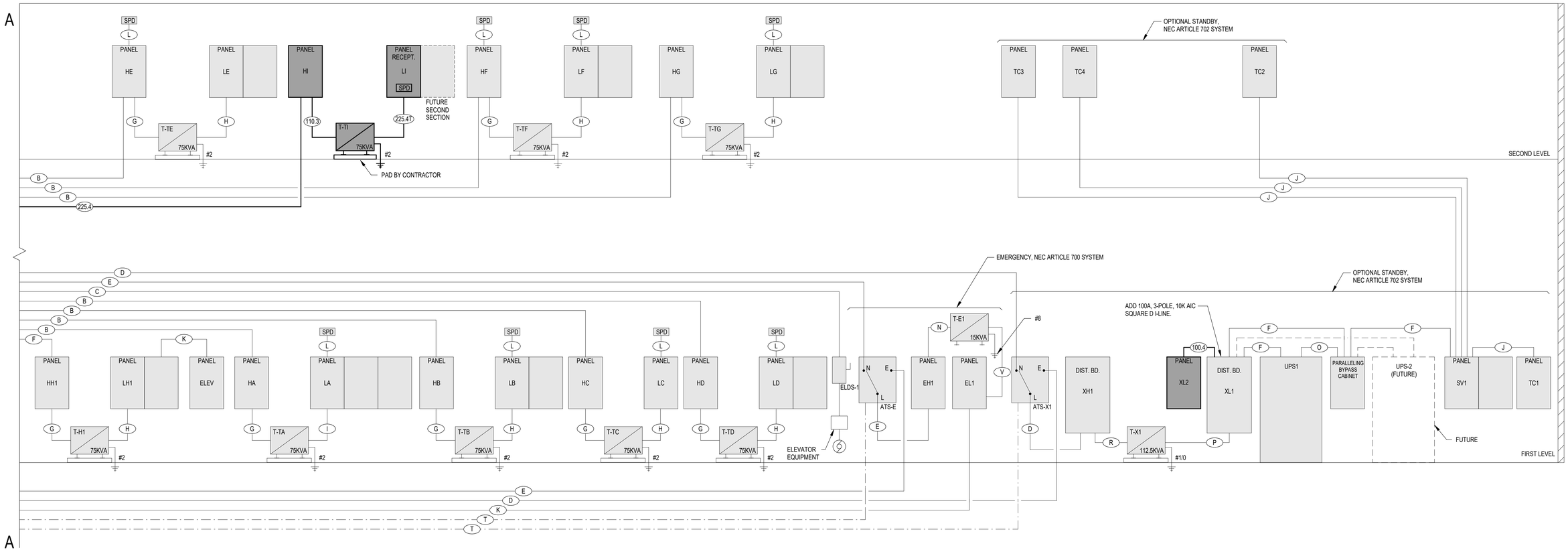
All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

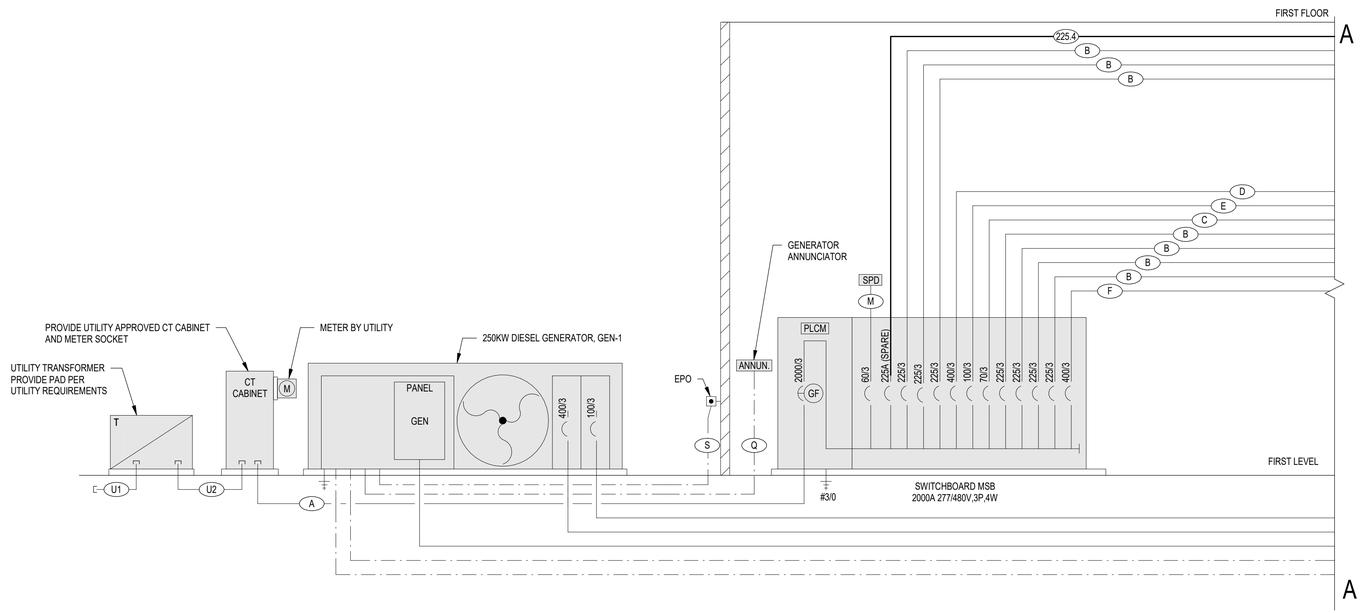
REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Overall Power Plan - Roof

DATE 07.23.2026
DRAWING NUMBER E213
PROJECT NUMBER 25030





FEEDER SCHEDULE		
TAG	CONDUIT AND WIRE SIZE	COMMENTS
U1	EXISTING	NOTE 1
U2	EXISTING	NOTE 1
A	EXISTING	NOTE 1
B	EXISTING	NOTE 1
C	EXISTING	NOTE 1
D	EXISTING	NOTE 1
E	EXISTING	NOTE 1
F	EXISTING	NOTE 1
G	EXISTING	NOTE 1
H	EXISTING	NOTE 1
I	EXISTING	NOTE 1
J	EXISTING	NOTE 1
K	EXISTING	NOTE 1
L	EXISTING	NOTE 1
M	EXISTING	NOTE 1
N	EXISTING	NOTE 1
O	EXISTING	NOTE 1
P	EXISTING	NOTE 1
Q	EXISTING	NOTE 1
R	EXISTING	NOTE 1
T	EXISTING	NOTE 1
100.4	1 1/2"C (4)#1 CU, (1)#8 CU GND	
110.3	1 1/4"C (3)#1 CU, (1)#6 CU GND	
225.4	2 1/2"C (4)#4/0 CU, (1)#4 CU GND	
225.4T	2 1/2"C (4)#4/0 CU, (1)#2 CU GND	

NOTES:
1. EXISTING SHOWN FOR REFERENCE.

NEW WORK KEY
- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT

1 E500 ELECTRICAL SCHEMATIC RISER DIAGRAM
NOT TO SCALE

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION ISSUE DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Electrical Schematic Riser Information

DATE 07.23.2026
DRAWING NUMBER E500
PROJECT NUMBER 25030

BID SET

EQUIPMENT SCHEDULE

PLAN MARK	DESCRIPTION	PANEL	VOLTS /PH	HP/ WATTS	FLA	MCA	MAX FUSE/ MOCPD	FEEDER	DISC @ UNIT	REMARKS
RTU-1A	ROOF TOP UNIT	HD	480/3			21	25	3/4"C, (3) #10, #10 GND (EXIST.)	30/3 WP FUSIBLE	NOTE 1
RTU-1B	ROOF TOP UNIT	HD	480/3			21	25	3/4"C, (3) #10, #10 GND	FWE	NOTE 2
RTU-2	ROOF TOP UNIT	HD	480/3			16	20	3/4"C, (3) #10, #10 GND	FWE	NOTE 3
RTU-3	ROOF TOP UNIT	HD	480/3			16	20	3/4"C, (3) #10, #10 GND	FWE	NOTE 3
RTU-28	ROOF TOP UNIT	HD	480/3			21	25	3/4"C, (3) #10, #10 GND	FWE	
RTU-29	ROOF TOP UNIT	HI	480/3			44	60	1"C, (3) #6, #8 GND	FWE	
RTU-30	ROOF TOP UNIT	HI	480/3			16	20	3/4"C, (3) #10, #10 GND	FWE	
RTU-31	ROOF TOP UNIT	HI	480/3			36	50	1"C, (3) #6, #8 GND	FWE	
RTU-32	ROOF TOP UNIT	HI	480/3			16	20	3/4"C, (3) #10, #10 GND	FWE	
RTU-33	ROOF TOP UNIT	HI	480/3			21	25	3/4"C, (3) #10, #10 GND	FWE	
ERCP-1	ELECTRIC RADIANT CEILING PANEL	AS NOTED	120/1	750 W	7			3/4"C, (2) #12, #12 GND	SSY	

KEY:

CMS= COMB. MOTOR STARTER
DDC= DIRECT DIGITAL CONTROL
FLA= FULL LOAD AMPS
FRA= FRACTIONAL HP
FWE= FURNISHED W/ EQUIP
MCA= MIN CKT. AMP
NF= NON-FUSED
SPSW= SINGLE POLE SWITCH
SSY= BUSSMAN FUSES/SWITCH UNIT
WP= WEATHERPROOF
WS= WITHIN SITE
VFD= VAR. FREQ. DRIVE

NOTES:

1. REPLACEMENT FOR EXISTING UNIT. EXISTING FEED TO BE RE-USED. EXISTING UNIT IS FEED WITH A 30A BREAKER. PROVIDE FUSIBLE SWITCH AND FUSE AT MOCP (25A).
2. REPLACEMENT FOR EXISTING UNIT. EXISTING 480V FEED IS INSUFFICIENT FOR NEW RTU. REPLACE #12 CONDUCTORS WITH #10 AS NOTED. EXISTING UNIT IS FEED WITH A NEW 25A BREAKER.
3. REPLACEMENT FOR EXISTING UNIT. EXISTING FEED IS 208V, SINGLE PHASE. DEMO EXISTING FEED AND PROVIDE NEW 480V FEED NOTED.
4. RTU-31 TO REPLACE RTU-11 ON REVISED ROOF CURB REMOVED IN DEMOLITION. EXISTING CIRCUIT TO BE REUSED. UPDATE DIRECTORY WITH NEW RTU NUMBER.

DRY TYPE TRANSFORMER SCHEDULE

PLAN MARK	KVA RATING	OC TEMP. RISE	PRIMARY VOLTS	PRIMARY PH	PRIMARY WIRE	SECONDARY VOLTS	SECONDARY PH	SECONDARY WIRE	TAPS % REG.	TAPS NO. (+)	TAPS NO. (-)	K RATING	NOTES
T-TI	75	115	480	3	3	120/208	3	4	2.5	2	4	1	1

NOTES:

1. REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURERS AND ADDITIONAL INFORMATION.

ACTIVATION BOX SCHEDULE

PLAN MARK	AB-F1	AB-P1	AB-P2	AB-P3	AB-P4	AB-W1
DESCRIPTION	FLOORBOX	6" POKE THRU AT TEACHING STATION	6" POKE THRU AT GATHERING	6" POKE THRU AT CONFERENCE ROOM W/AV	6" FURNITURE FEED POKE THRU	WALL ACTIVATION BOX
FLOOR/WALL TYPE	CARPET ON CONCRETE	CARPET ON CONCRETE	CARPET ON CONCRETE	CARPET ON CONCRETE		GYP/STEEL STUD
MODEL INFORMATION						
QUANTITY OF OPENINGS (GANGS)	8	3	3	3	2	
MANUFACTURER	WIREMOLD	LEGRAND	LEGRAND	LEGRAND	LEGRAND	FSR
BOX MODEL NUMBER	EFB8S-OG	6ATC2PGY	6ATC2PGY	6ATC2PGY	6ATCFFGY	PWB-250
COVER MODEL NUMBER	EFB610CTCGY	FURNISHED WITH BOX	FURNISHED WITH BOX	FURNISHED WITH BOX	FURNISHED WITH BOX	INCLUDED
FINISH	GRAY (VERIFY)	GRAY (VERIFY)	GRAY (VERIFY)	GRAY (VERIFY)	GRAY (VERIFY)	WHITE
POWER						
DUPLEX RECEPTACLE QTY.	4	2	2	2	N/A	1
CONDUIT	3/4"C	3/4"C	3/4"C	3/4"C	3/4"C	3/4"
TECHNOLOGY						
MOUNTING PLATE MODEL NUMBER	EFB8MB, EFB810-DIV	6DEC	6DEC	6DEC	0	N/A
CONDUIT	1-1/4"C	1-1/4"C	1-1/4"C	1-1/4"C	1-1/4"C	1"
AUDIO VISUAL						
MOUNTING PLATE MODEL NUMBER	EFB8MB	6MAAP	6MAAP	6MAAP	6MAAP	N/A
CONDUIT	1-1/4"	1-1/4"C	N/A	1-1/4"C	N/A	(1) 1 1/4"
SCHEMATIC DETAIL NUMBER						
NOTES	NOTE 1					

GENERAL NOTES:

A. PROVIDE ALL NECESSARY COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION.
B. PROVIDE BLANK COVER PLATES FOR ALL UN-USED OPENINGS.
C. REFER TO TECHNOLOGY DRAWINGS TO VERIFY NUMBER OF CABLES AND DATA JACKS REQUIRED AS WELL AS CONDUIT SIZES AND QUANTITY.
D. CONFIRM COVER PLATE TYPES AND FINISHES WITH ARCHITECT.
E. CONFIRM ROUGH-IN LOCATION WITH ARCHITECTURAL FLOORPLANS AND ELEVATIONS PRIOR TO ROUGH-IN.
F. REFER TO TECHNOLOGY AND AUDIOVISUAL SHEETS FOR SPECIFIC DEVICES INSTALLED IN ACTIVATION BOX. PROVIDE COVER PLATES AND ACCESSORIES AS REQUIRED FOR SYSTEMS.

NOTES:

1. PROVIDE WITH DIVIDER TO SEPARATE LINE VOLTAGE FROM LOW VOLTAGE.

LIGHTING CONTROL SEQUENCE OF OPERATION

OPERATION SEQUENCE	SCHEMATIC DETAIL	LIGHT LEVEL SET POINT	TIME DELAY	LIGHTING SEQUENCE TRIGGER ON	LIGHTING SEQUENCE USER CONTROLS	LIGHTING SEQUENCE DAY LIGHT CONTROLS	LIGHTING SEQUENCE TRIGGER OFF	RECEPTACLE CONTROL	HVAC INTEGRATION	NOTES
0	N/A	N/A	N/A	CONSTANT ON	N/A	N/A	CONSTANT ON	N/A	-	FIXTURE IS WIRED TO UNSWITCHED CIRCUIT, FIXTURE IS ALWAYS ENERGIZED.
1	N/A	N/A	N/A	SINGLE POLE WALL SWITCH		N/A	SINGLE POLE WALL SWITCH	N/A	N/A	FIXTURE IS WIRED TO A SWITCH LEG FOR MANUAL CONTROL, SPACE CONTAINS EQUIPMENT THAT MAY BECOME UNSAFE FOR AUTOMATIC OFF CONTROL.
2	N/A	N/A	ADJUSTABLE, SET TO 15 MINUTES	LIGHTING CONTROL STATION		N/A	MANUAL CONTROL STATION OR OCCUPANCY SENSOR	N/A	N/A	MANUAL ON BY LIGHTING CONTROL STATION, AUTO OFF BY OCCUPANCY SENSOR, MANUAL OFF BY LIGHTING CONTROL STATION. LIGHTING CONTROL STATION CAPABLE OF DIMMING TO 1% AND RAISING TO 100%. FIXTURES LABELED AS 'EM': UPON LOSS OF NORMAL POWER, THE UL924 DEVICE FORCES EMERGENCY LUMINAIRES ON TO FULL OUTPUT REGARDLESS OF CONTROL SYSTEM STATE. NORMAL OPERATION IS AUTOMATICALLY RESTORED UPON RETURN OF NORMAL POWER
3	N/A	N/A	ADJUSTABLE, SET TO 15 MINUTES	OCCUPANCY SENSOR	N/A	N/A	OCCUPANCY SENSOR	N/A	N/A	AUTOMATIC ON BY OCCUPANCY SENSOR, AUTOMATIC OFF BY OCCUPANCY SENSOR [WHERE APPLICABLE, MANUAL OFF BY WALL SWITCH SENSOR]
4	N/A	N/A	ADJUSTABLE, SET TO 15 MINUTES	OCCUPANCY SENSOR		N/A	MANUAL CONTROL STATION OR OCCUPANCY SENSOR	N/A	N/A	AUTOMATIC ON BY OCCUPANCY SENSOR TO 50%, AUTOMATIC OFF BY OCCUPANCY SENSOR OR MANUAL OFF BY LIGHTING CONTROL STATION. LIGHTING CONTROL STATION CAPABLE OF DIMMING LIGHTS AND RAISING TO 100% ON. FIXTURES LABELED AS 'EM': UPON LOSS OF NORMAL POWER, THE UL924 DEVICE FORCES EMERGENCY LUMINAIRES ON TO FULL OUTPUT REGARDLESS OF CONTROL SYSTEM STATE. NORMAL OPERATION IS AUTOMATICALLY RESTORED UPON RETURN OF NORMAL POWER
5	N/A	N/A	ADJUSTABLE, SET TO 15 MINUTES	LIGHTING CONTROL STATION		N/A	MANUAL CONTROL STATION OR OCCUPANCY SENSOR	N/A	N/A	MANUAL ON BY LIGHTING CONTROL STATION, AUTOMATIC OFF BY OCCUPANCY SENSOR OR MANUAL OFF BY LIGHTING CONTROL STATION. LIGHTS ARE NOT CAPABLE OF DIMMING. FIXTURES LABELED AS 'EM': UPON LOSS OF NORMAL POWER, THE UL924 DEVICE FORCES EMERGENCY LUMINAIRES ON TO FULL OUTPUT REGARDLESS OF CONTROL SYSTEM STATE. NORMAL OPERATION IS AUTOMATICALLY RESTORED UPON RETURN OF NORMAL POWER
6	N/A	N/A	ADJUSTABLE, SET TO 15 MINUTES	OCCUPANCY SENSOR		N/A	MANUAL CONTROL STATION OR OCCUPANCY SENSOR	N/A	N/A	LIGHTING SHALL OPERATE AT A PROGRAMMED HIGH-END TRIM LEVEL OF 50% OF FULL OUTPUT. AUTOMATIC ON BY OCCUPANCY SENSOR TO 50% OF THE PROGRAMMED HIGH-END TRIM. AUTOMATIC OFF BY OCCUPANCY SENSOR OR MANUAL OFF BY LIGHTING CONTROL STATION. LIGHTING CONTROL STATION CAPABLE OF DIMMING LIGHTS AND RAISING TO 100% ON.

GENERAL NOTES:

A. FOR ALL CONTROL SEQUENCES WITH WALL STATIONS, THE PROGRAMMED SETTING OF THE WALL STATION WILL MAINTAIN THE ACTIVE CONTROL FUNCTION UNTIL LOSS OF OCCUPANCY IS DETECTED, THEN THE SYSTEM WILL DEFAULT BACK TO ITS INITIAL SEQUENCE.

B. LIGHTING CONTROL SYSTEM TO BE LUTRON VIVE WITH WIRELESS CONTROL STATIONS AND SENSORS.

SPECIFIC NOTES:

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

Electrical Power Schedules

DATE
07.23.2026

DRAWING NUMBER
E510

BID SET

PROJECT NUMBER
25030

PANEL SCHEDULE: HI

LOCATION: ROOM 177 | **VOLTS:** 480/277V | **A.I.C. RATING:** 35,000 | **TOTAL CONNECTED**
MOUNTING: SURFACE | **PHASES:** 3 | **MAINS TYPE:** MLO | **TOTAL LOAD:** 3340 VA
ENCLOSURE: TYPE 1 | **WIRES:** 4 | **MAINS RATING:** 250 A | **TOTAL AMPS:** 4 A

Not Computed / 0...

CKT NO.	BRKR AMPS	P	DESCRIPTION	LOAD V.A.	LOAD V.A.	DESCRIPTION	P	BRKR AMPS	CKT NO.
1	25	3	RTU-33	0	0	RTU-31	3	50	2
3	--	--	--	--	--	--	--	--	4
5	--	--	--	--	--	--	--	--	6
7	20	3	RTU-32	0	0	RTU-29	3	60	8
9	--	--	--	--	--	--	--	--	10
11	--	--	--	--	--	--	--	--	12
13	25	3	RTU-30	0	--	SPARE	3	45	14
15	--	--	--	--	--	--	--	--	16
17	--	--	--	--	--	--	--	--	18
19	20	1	RM 2072A, B, C, D, E, F, G, H, I, J, K LTG	883	--	SPARE	3	40	20
21	20	1	CORRIDOR 2071, 2073, COLAB. 2072 LTG	476	--	--	--	--	22
23	20	1	CLASSROOM 2 2070, STORE. 2070A LTG	708	--	--	--	--	24
25	20	1	COLLABORATION 2066 LTG	639	--	PANEL LI/TRANSFORMER TI	3	110	26
27	20	1	CLASSROOM 1A 2068A, 1B 2068B LTG	635	--	--	--	--	28
29					--	--	--	--	30

*HL = HANDLE LOCK *GFI = GROUND FAULT INTERRUPTER *AFI = ARC FAULT INTERRUPTER *ST = SHUNT TRIP

NOTES:
1. SQUARE D TO MATCH BUILDING STANDARD
3. PROVIDE SPD, 60,000A

PANEL SCHEDULE: XL2

LOCATION: STORAGE 024 | **VOLTS:** 208/120V | **A.I.C. RATING:** 10,000 | **TOTAL CONNECTED**
MOUNTING: SURFACE | **PHASES:** 3 | **MAINS TYPE:** MLO | **TOTAL LOAD:** 2363 VA
ENCLOSURE: TYPE 1 | **WIRES:** 4 | **MAINS RATING:** 100 A | **TOTAL AMPS:** 7 A

Not Computed / 0...

CKT NO.	BRKR AMPS	P	DESCRIPTION	LOAD V.A.	LOAD V.A.	DESCRIPTION	P	BRKR AMPS	CKT NO.
1	20	1	WAR ROOM 10021 LTG	203	--	SPARE	1	20	2
3	20	1	WAR ROOM 10021 RECEPTS	1080	--	SPARE	1	20	4
5	20	1	WAR ROOM 10021 AB-F1	360	--	SPARE	1	20	6
7	20	1	WAR ROOM 10021 RECEPTS	720	--	SPARE	1	20	8
9	20	1	SPARE	--	--	SPARE	1	20	10
11	20	1	SPARE	--	--	SPARE	1	20	12
13	20	1	SPARE	--	--	SPARE	1	20	14
15	20	1	SPARE	--	--	SPARE	1	20	16
17	20	1	SPARE	--	--	SPARE	1	20	18
19	20	1	SPARE	--	--	SPARE	1	20	20
21	20	1	SPARE	--	--	SPARE	1	20	22
23	20	1	SPARE	--	--	SPARE	1	20	24
25	20	1	SPARE	--	--	SPARE	1	20	26
27	20	1	SPARE	--	--	SPARE	1	20	28
29	20	1	SPARE	--	--	SPARE	1	20	30

*HL = HANDLE LOCK *GFI = GROUND FAULT INTERRUPTER *AFI = ARC FAULT INTERRUPTER *ST = SHUNT TRIP

NOTES:
1. NEC ARTICLE 702 STANDBY SYSTEM
2. SQUARE D TO MATCH BUILDING STANDARD

PANEL SCHEDULE: LI

LOCATION: ROOM 177 | **VOLTS:** 208/120V | **A.I.C. RATING:** 10,000 | **TOTAL CONNECTED**
MOUNTING: SURFACE | **PHASES:** 3 | **MAINS TYPE:** MCB | **TOTAL LOAD:** 21820 VA
ENCLOSURE: TYPE 1 | **WIRES:** 4 | **MAINS RATING:** 225 A | **TOTAL AMPS:** 61 A

Not Computed / 0...

CKT NO.	BRKR AMPS	P	DESCRIPTION	LOAD V.A.	LOAD V.A.	DESCRIPTION	P	BRKR AMPS	CKT NO.
1	20	1	OFFICE 2072E, 2072F, CORRIDOR 2071 RECEPTS	1620	--	SPARE	1	20	2
3	20	1	OFFICE 2072C, 2072D RECEPTS	1440	--	SPARE	1	20	4
5	20	1	OFFICE 2072B, CORRIDOR 2071, 2073 RECEPTS	1080	--	SPARE	1	20	6
7	20	1	CONFERENCE 2072A RECEPTS	1080	--	SPARE	1	20	8
9	20	1	CONFERENCE 2072A RECEPTS	720	--	SPARE	1	20	10
11	20	1	OFFICE 2072G, 2072H, CORRIDOR 2073 RECEPTS	1620	--	SPARE	1	20	12
13	20	1	OFFICE 2072I, 2072J , STOR. 2072K RECEPTS	1620	--	SPARE	1	20	14
15	20	1	COLAB. 2072 RECEPTS	1260	--	SPARE	1	20	16
17	20	1	CLASSROOM 2 2070 RECEPTS	1500	--	SPARE	1	20	18
19	20	1	CLASSROOM 2 2070 RECEPTS	1500	--	SPARE	1	20	20
21	20	1	CLASSROOM 2 2070 PROJECTORS	1000	--	SPARE	1	20	22
23	20	1	COLLABORATION 2066 RECEPTS	1260	--	SPARE	1	20	24
25	20	1	COLLABORATION 2066 RECEPTS	1260	--	SPARE	1	20	26
27	20	1	COLLABORATION 2066 RECEPTS	720	--	SPARE	1	20	28
29	20	1	CLASSROOM 1A 2068A RECEPTS	900	--	SPARE	1	20	30
31	20	1	CLASSROOM 1A 2068A RECEPTS	540	--	SPARE	1	20	32
33	20	1	CLASSROOM 1B 2068B RECEPTS	900	--	SPARE	1	20	34
35	20	1	CLASSROOM 1B 2068B, STOR. 2070A RECEPTS	1080	--	SPARE	1	20	36
37	20	1	LOUNGE 2064 RECEPTS	720	--	SPARE	1	20	38
39	20	1	SPARE	--	--	SPARE	1	20	40
41	20	1	SPARE	--	--	SPARE	1	20	42
43	20	1	SPARE	--	--	SPARE	1	20	44
45	20	1	SPARE	--	--	SPARE	1	20	46
47	20	1	SPARE	--	--	SPARE	1	20	48
49	20	1	SPARE	--	--	SPARE *GFI	1	20	50
51	20	1	SPARE	--	--	SPARE *GFI	1	20	52
53	20	1	SPARE	--	--	SPARE *GFI	1	20	54

*HL = HANDLE LOCK *GFI = GROUND FAULT INTERRUPTER *AFI = ARC FAULT INTERRUPTER *ST = SHUNT TRIP

NOTES:
1. SQUARE D TO MATCH BUILDING STANDARD
2. SUB FEED LUGS FOR FUTURE SECOND SECTION.

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Electrical Power Schedules

DATE
07.23.2026
DRAWING NUMBER
E511

BID SET

PROJECT NUMBER
25030

PANEL SCHEDULE: HD (EXISTING)

LOCATION: ELECTRICAL 016 **VOLTS:** 480/277V **A.I.C. RATING:** 35,000
MOUNTING: SURFACE **PHASES:** 3 **MAINS TYPE:** MLO
ENCLOSURE: TYPE 1 **WIRES:** 4 **MAINS RATING:** 225 A

CKT NO.	BRKR AMPS	P	DESCRIPTION	LOAD V.A.	LOAD V.A.	DESCRIPTION	P	BRKR AMPS	CKT NO.
1	**25**	**3**	**RTU-1A *NOTE 1,2**	**17772**	--	RM 6,8,10,12,17,18,20 LTG	1	20	2
3	**--**	**--**	**--**	**--**	--	RM 4,5,7,9,11,13-16,24,25 LTG	1	20	4
5	**--**	**--**	**--**	**--**					6
7	**25**	**3**	**RTU-1B *NOTE 3**	**17772**					8
9	**--**	**--**	**--**	**--**					10
11	**--**	**--**	**--**	**--**					12
13	**20**	**3**	**RTU-2 *NOTE 1, 4**	**13296**					14
15	**--**	**--**	**--**	**--**					16
17	**--**	**--**	**--**	**--**					18
19	**20**	**3**	**RTU-3 *NOTE 1, 4**	**13296**					20
21	**--**	**--**	**--**	**--**					22
23	**--**	**--**	**--**	**--**					24
25	**25**	**3**	**RTU-28 NOTE 1, 5**	**17772**	--	XFMR T-TD	3	110	26
27	**--**	**--**	**--**	**--**	--	--	--	--	28
29	**--**	**--**	**--**	**--**	--	--	--	--	30

*HL = HANDLE LOCK *GFI = GROUND FAULT INTERRUPTER *AFI = ARC FAULT INTERRUPTER *ST = SHUNT TRIP

NOTES:
1. BOLD INDICATES NEW OR REVISED CIRCUIT
2. REPLACE 30A/3P WITH 25A/3P FOR NEW RTU-1A.
3. EXISTING 25A/3P BREAKER FOR RTU-1B TO REMAIN FOR REPLACEMENT RTU-1B.
4. NEW 20A/3P BREAKER FOR NEW RTU.
5. NEW 25A/3P BREAKER FOR NEW RTU

PANEL SCHEDULE: LD (EXISTING)

LOCATION: **VOLTS:** 208/120V **A.I.C. RATING:** 10,000 **TOTAL CONNECTED**
MOUNTING: SURFACE **PHASES:** 3 **MAINS TYPE:** MB **TOTAL LOAD:** 43460 VA
ENCLOSURE: TYPE 1 **WIRES:** 4 **MAINS RATING:** 225 A **TOTAL AMPS:** 121 A

Not Computed / 0...

CKT NO.	BRKR AMPS	P	DESCRIPTION	LOAD V.A.	LOAD V.A.	DESCRIPTION	P	BRKR AMPS	CKT NO.
1	**35**	**2**	**SPARE (NOTE 1)**	**--**	540	IT 1002, EXEC SUITE 1004 RECEPTS	1	20	2
3	**--**	**--**	**--**	--	--	SPARE	1	20	4
5	**35**	**2**	**SPARE (NOTE 1)**	--	--	SPARE *NOTE 1	1	20	6
7	--	--	--	--	--	SPARE *NOTE 1	1	20	8
9	20	1	ROOF	--	--	SPARE	1	20	10
11	20	1	EF-3	--	--	SPARE	1	20	12
13	20	1	RCP-1 (005)	--	900	OFFICE 1002K, IT 1002 RECEPTS	1	20	14
15	20	1	RCP-1 (006)	--	720	MAIL 1008 RECEPTS	1	20	16
17	20	1	ELEC 1007, IT 1002 RECEPTS & COPIER	540	**720**	**BREAK ROOM 1002L & R 1011, 1009 RECEPTS**	**1**	**20**	**18**
19	20	1	OFFICE 1002C, 1002D RECEPTS	1440	--	SPARE	1	20	20
21	20	1	OFFICE 1002A, 1002B RECEPTS	1440	1000	IT 1002 FURN FEED	1	20	22
23	20	1	OFFICE 1002E, 1002F RECEPTS	1440	1000	IT 1002 FURN FEED	1	20	24
25	20	1	OFFICE 1002G, 1002H RECEPTS	1440	1000	IT 1002 FURN FEED	1	20	26
27	20	1	IT 1002 RECEPTS & COPIER	900	1000	IT 1002 FURN FEED	1	20	28
29	20	1	OFFICE 1002J RECEPTS	720	1000	IT 1002 FURN FEED	1	20	30
31	20	1	SPARE	--	1000	IT 1002 FURN FEED	1	20	32
33	**20**	**1**	**VENDING *NOTE 1,2**	**800**	1000	IT 1002 FURN FEED	1	20	34
35	**20**	**1**	**REFRIGERATOR *NOTE 1,2**	**800**	1000	IT 1002 FURN FEED	1	20	36
37	**20**	**1**	**REFRIGERATOR *NOTE 1,2**	**800**	1000	IT 1002 FURN FEED	1	20	38
39	20	1	SPARE	--	1000	IT 1002 FURN FEED	1	20	40
41	20	1	SPARE	--	**900**	**EXEC OFFICE 1004C RECEPTS *NOTE 1**	**1**	**20**	**42**
43	20	1	IT 1002 FURN FEED	1000	**1080**	**EXEC OFFICE 1004D, IT 1002 RECEPTS *NOTE 1**	**1**	**20**	**44**
45	20	1	IT 1002 FURN FEED	1000	**1080**	**EXEC SUITE 1004 RECEPTS *NOTE 1**	**1**	**20**	**46**
47	20	1	IT 1002 FURN FEED	1000	**1440**	**VP OFFICE 1004B RECEPTS *NOTE 1**	**1**	**20**	**48**
49	**20**	**1**	**BREAK ROOM 1002L COUNTER RECEPT *NOTE 1**	**180**	**900**	**SENIOR OFFICE 1004A RECEPTS *NOTE 1**	**1**	**20**	**50**
51	**20**	**1**	**BREAK ROOM 1002L COUNTER RECEPT *NOTE 1**	**180**	**0**	**ERCP-1 *NOTE 1**	**1**	**20**	**52**
53	**20**	**1**	**MICROWAVE *NOTE 1**	**1500**	**0**	**ERCP-1 *NOTE 1**	**1**	**20**	**54**
55	20	1	SPARE	--					**56**
57	20	1	SPARE	--	**--**	**SPARE *NOTE 1**	**1**	**20**	**58**
59	20	1	SPARE	--	**--**	**SPARE *NOTE 1**	**1**	**20**	**60**
61	20	1	SPARE	--	**--**	**SPARE *NOTE 1**	**1**	**20**	**62**
63	20	1	SPARE	--	1000	IT 1002 FURN FEED	1	20	64
65	20	1	SPARE	--	1000	IT 1002 FURN FEED	1	20	66
67	20	1	SPARE	--	1000	IT 1002 FURN FEED	1	20	68
69	20	1	SPARE	--	1000	IT 1002 FURN FEED	1	20	70
71	20	1	SPARE	--	1000	IT 1002 FURN FEED	1	20	72
73	20	1	SPARE	--	1000	IT 1002 FURN FEED	1	20	74
75	20	1	SPARE	--	1000	IT 1002 FURN FEED	1	20	76
77	20	1	SPARE	--	1000	IT 1002 FURN FEED	1	20	78
79	20	1	SPARE	--	1000	IT 1002 FURN FEED	1	20	80
81	20	1	SPARE	--	1000	IT 1002 FURN FEED	1	20	82
83	20	1	SPARE	--					84

*HL = HANDLE LOCK *GFI = GROUND FAULT INTERRUPTER *AFI = ARC FAULT INTERRUPTER *ST = SHUNT TRIP

NOTE:
1. BOLD INDICATES NEW OR REVISED CIRCUIT.
2. PROVIDE NEW 20/1P GFCI CIRCUIT BREAKER.

PANEL SCHEDULE: LG (EXISTING)

LOCATION: **VOLTS:** 208/120V **A.I.C. RATING:**
MOUNTING: SURFACE **PHASES:** 3 **MAINS TYPE:**
ENCLOSURE: TYPE 1 **WIRES:** 4 **MAINS RATING:** 600 A

CKT NO.	BRKR AMPS	P	DESCRIPTION	LOAD V.A.	LOAD V.A.	DESCRIPTION	P	BRKR AMPS	CKT NO.
1	20	2	RTU-15	--	--	170 COUNTER	1	20	2
3	--	--	--	--	--	170 COUNTER	1	20	4
5	20	2	RTU-13	--	--	**SPARE *NOTE 1**	**1**	**20**	**6**
7	--	--	--	--	--	**SPARE *NOTE 1**	**1**	**20**	**8**
9	20	1	0720 A/V	--	--	ROOF	1	20	10
11	20	1	167 FRONTR	--	--	LCP3, LCP4	1	20	12
13	20	1	HALL 2083B RECEPTS	180	**720**	**MEETING 2100 AB-W1, AB-F *NOTE 1**	**1**	**20**	**14**
15	20	1	154 FLOOR BOX	--	**1000**	**OPEN OFFICE 2080A FURN FEED *NOTE 1**	**1**	**20**	**16**
17	35	2	RTU-12	--	**1000**	**OPEN OFFICE 2080A FURN FEED *NOTE 1**	**1**	**20**	**18**
19	--	--	--	--	**500**	**OPEN OFFICE 2080A FURN FEED *NOTE 1**	**1**	**20**	**20**
21	20	1	153	--	**1000**	**OPEN OFFICE 2080A FURN FEED *NOTE 1**	**1**	**20**	**22**
23	**20**	**1**	**MEETING 2076G, OFFICE 2076F RECEPTS *NOTE 1**	**1260**	**1000**	**OPEN OFFICE 2080A FURN FEED *NOTE 1**	**1**	**20**	**24**
25	20	1	OFFICE 2076D, 2076E, HALL 2083B RECEPTS	1620	**500**	**OPEN OFFICE 2080A FURN FEED *NOTE 1**	**1**	**20**	**26**
27	20	1	OFFICE 2076B, 2076C RECEPTS	1440	**1000**	**RECEPTION/ WATING 2080 FURN FEED *NOTE 1**	**1**	**20**	**28**
29	20	1	OFFICE 2076A RECEPTS	900	**1000**	**RECEPTION/ WATING 2080 FURN FEED *NOTE 1**	**1**	**20**	**30**
31					**1000**	**OPEN OFFICE 2076 FURN FEED *NOTE 1**	**1**	**20**	**32**
33	20	1	OFFICE 2084, 2086 RECEPTS	1440	**1000**	**OPEN OFFICE 2076 FURN FEED *NOTE 1**	**1**	**20**	**34**
35	20	1	OFFICE 2088, 2090 RECEPTS	1440	**1000**	**RECEPTION 2075A FURN FEED *NOTE 1**	**1**	**20**	**36**
37	20	1	OFFICE 2092, 2094 RECEPTS	1440	**1000**	**RECEPTION 2075A FURN FEED *NOTE 1**	**1**	**20**	**38**
39	20	1	OFFICE 2096, 2098 RECEPTS	1440	**540**	**COLAB. 2080B AB-P2 & RECEPT *NOTE 1**	**1**	**20**	**40**
41	20	1	MEETING 2100 RECEPTS	900	**--**	**SPARE *NOTE 1**	**1**	**20**	**42**
43	20	1	OFFICE 2102, HALL 2083 RECEPTS	1080	**800**	**PRINTER *NOTE 1**	**1**	**20**	**44**
45	20	1	OFFICE 2104, 2106 RECEPTS	1440	**900**	**COLAB. 2074 RECEPTS *NOTE 1**	**1**	**20**	**46**
47	20	1	OFFICE 2108, 2110, HALL 2083 RECEPTS	1620	--	SPARE	1	20	48
49	20	1	171	--	--	SPARE	1	20	50
51	20	1	171	--	--	SPARE	1	20	52
53	20	1	168	--	--	SPARE	1	20	54
55	20	1	168 FB	--	--	SPARE	1	20	56
57	20	1	167 FB'S	--	--	SPARE	1	20	58
59	20	1	167	--	--	SPARE	1	20	60
61	20	1	167	--	--	SPARE	1	20	62
63	20	1	167	--	--	SPARE	1	20	64
65	20	1	167	--	--	SPARE	1	20	66
67	20	1	167	--	0	MEETING 2100 RADIENT CEILING PANELS	1	20	68
69	20	1	167	--	0	OFFICE 2102 RADIENT CEILING PANELS	1	20	70
71	20	1	167 SCREEN, PROJECTOR	--	0	OFFICE 2104 RADIENT CEILING PANEL	1	20	72
73	20	1	RM 2081, 2083A, 2076 RECEPTS	1080	0	OFFICE 2106 RADIENT CEILING PANELS	1	20	74
75	**20**	**1**	**OPEN OFFICE COPIER *NOTE 1**	**1400**	0	OFFICE 2108 RADIENT CEILING PANEL	1	20	76
77	**20**	**1**	**RECE. 2075A, SERV. WAT. 2075 RECEPTS *NOTE 1**	**720**	0	OFFICE 2110 RADIENT CEILING PANELS	1	20	78
79	**20**	**1**	**MEETING 2076G RECEPTS *NOTE 1**	**720**	--	SPARE	1	20	80
81	**20**	**1**	**COLAB. 2080B RECEPTS *NOTE 1**	**720**	--	SPARE	1	20	82
83	20	1	167, 172, 173	--	--	SPARE	1	20	84
85	20	1	OFFICE 2102, MEETING 2100 MONITORS	720	--	SPARE	1	20	86
87	20	1	SPARE	--	--	SPARE	1	20	88
89	20	1	SPARE	--	--	SPARE	1	20	90
91	20	1	SPARE	--	--	SPD	3	30	92
93	20	1	SPARE	--	--	--	--	--	94
95	20	1	SPARE	--	--	--	--	--	96

*HL = HANDLE LOCK *GFI = GROUND FAULT INTERRUPTER *AFI = ARC FAULT INTERRUPTER *ST = SHUNT TRIP

NOTE:
1. BOLD INDICATES NEW OR REVISED CIRCUIT.

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

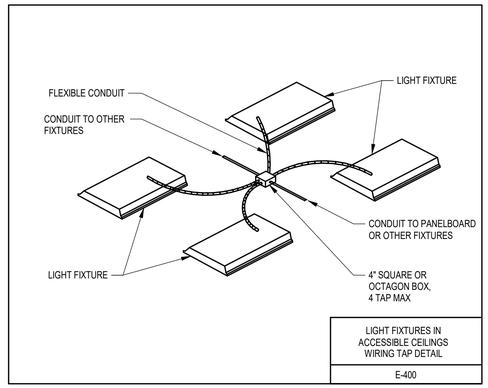
REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Electrical Power Schedules

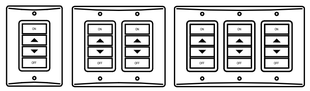
DATE
07.23.2026
DRAWING NUMBER
E512
PROJECT NUMBER
25030

BID SET



LIGHT FIXTURES IN ACCESSIBLE CEILINGS WIRING TAP DETAIL

E-400



1A 2A 3A

LIGHTING CONTROL DEVICE STANDARD NOTES

1. PROVIDE LIGHTING CONTROL STATION WITH CONTROL BUTTONS NOTED.
2. PROVIDE ENGRAVING/SCREEN PRINTING AS NOTED.

LIGHT FIXTURE SCHEDULE

PLAN MARK	BASIS OF DESIGN MANUFACTURER AND MODEL NUMBERS	APPROVED EQUIVALENT MANUFACTURERS AND SERIES	DESCRIPTION	LED DETAILS		DRIVER			INPUT WATTS	VOLTS	CEILING TYPE	FIXTURE MOUNTING	NOTES
				COLOR (K)	LUMEN OUTPUT	QTY.	TYPE	DIM MIN.					
EX	EXISTING DOWNLIGHT	N/A	EXISTING DOWNLIGHT	40K	-	-	-	-	-	-	GYP	RECESSED	
EX2	EXISTING 2X2 FLAT PANEL	N/A	EXISTING 2X2 FLAT PANEL	40K	-	-	-	-	-	-	GRID	RECESSED	
EX3	EXISTING 2X4 FLAT PANEL	N/A	EXISTING 2X4 FLAT PANEL	40K	-	-	-	-	-	-	GRID	RECESSED	
EX4	EXISTING EXIT SIGN	N/A	EXISTING EXIT SIGN	-	-	-	-	-	-	-	-		
LAA	LITHONIA CPX 2X4 3000LM 80CRI 40K SWL MIN1 MVOLT	DAYBRITE 2FPZ METALUX CGTX COLUMBIA SRP / NBT	2X4 FLAT PANEL. BACK LIT LED ARRAY, CONFIGURED SPEC., 80 CRI MINIMUM, WHITE SEAMLESS ALUMINUM FRAME, SATIN WHITE LENS, DAMP LOCATION	40K	3368LM	1	0-10	1%	24.6W	UNV	GRID	RECESSED	
LAB	LITHONIA CPX 2X4 4000LM 80CRI 40K SWL MIN1 MVOLT	DAYBRITE 2FPZ METALUX CGTX COLUMBIA SRP / NBT	2X4 FLAT PANEL. BACK LIT LED ARRAY, CONFIGURED SPEC., 80 CRI MINIMUM, WHITE SEAMLESS ALUMINUM FRAME, SATIN WHITE LENS, DAMP LOCATION	40K	4936LM	1	0-10	1%	36.7W	UNV	GRID	RECESSED	
LAC	LITHONIA CPX 2X2 2000LM 80CRI 40K SWL MIN1 MVOLT	DAYBRITE 2FPZ METALUX CGTX COLUMBIA SRP / NBT	2X2 FLAT PANEL. BACK LIT LED ARRAY, CONFIGURED SPEC., 80 CRI MINIMUM, WHITE SEAMLESS ALUMINUM FRAME, SATIN WHITE LENS, DAMP LOCATION	40K	2206LM	1	0-10	1%	15.6W	UNV	GRID	RECESSED	
LB4	FOCAL POINT FSM4L-BW-625LF-40K-1C-UNV-L11-XX-WH-4FT0IN	FINELITE HP-4 AXIS BEAM 4 PMC LIGHTING ES4 SERIES	4FT RECESSED LINEAR - 4" APERTURE BATWING OPTIC	40K	625LM/FT	1	0-10	1%	4.75W/FT	UNV	GRID	RECESSED	
LB6	FOCAL POINT FSM4L-BW-875LF-40K-1C-UNV-L11-XX-WH-6FT0IN	FINELITE HP-4 AXIS BEAM 4 PMC LIGHTING ES4 SERIES	6FT RECESSED LINEAR - 4" APERTURE BATWING OPTIC	40K	875LM/FT	1	0-10	1%	6.75W/FT	UNV	GRID	RECESSED	
LB8	FOCAL POINT FSM4L-BW-875LF-40K-1C-UNV-L11-XX-WH-8FT0IN	FINELITE HP-4 AXIS BEAM 4 PMC LIGHTING ES4 SERIES	8FT RECESSED LINEAR - 4" APERTURE BATWING OPTIC	40K	875LM/FT	1	0-10	1%	6.75W/FT	UNV	GRID	RECESSED	
LCA	GOTHAM IVO4 D 10LM 40K 80CRI MWD MIN10 MVOLT ZT NCH P AR LSS F	PRESCOLITE LTR-4RD LIGHTOLIER C4RDL PORTFOLIO LD4C	OPEN 4" APERTURE, FIXED AIMING, 40-50 DEGREE CUTOFF, NEW CONSTRUCTION HOUSING, SPUN ALUMINUM SELF-FLANGED ANODIZED REFLECTOR, ACCOMMODATES CEILING THICKNESSES UP TO 2"	40K	991LM	1	0-10	1%	9.8W	UNV	VARIES	RECESSED	
LCB	GOTHAM IVO4 D 20LM 40K 80CRI MWD MIN10 MVOLT ZT NCH P AR LSS F	PRESCOLITE LTR-4RD LIGHTOLIER C4RDL PORTFOLIO LD4C	OPEN 4" APERTURE, FIXED AIMING, 40-50 DEGREE CUTOFF, NEW CONSTRUCTION HOUSING, SPUN ALUMINUM SELF-FLANGED ANODIZED REFLECTOR, ACCOMMODATES CEILING THICKNESSES UP TO 2"	40K	1853LM	1	0-10	1%	20.5W	UNV	VARIES	RECESSED	
LD	EUREKA 4232-23-LED-40-80-277V-DV-C-XX-WHE-XX-PL-WH	A WE MELUNA ACOUSTIC	DECORATIVE ACOUSTIC PENDANT	40K	916LM	1	0-10	1%	9.8W	277V	GRID	SUSPENDED	NOTE 2
LEA	EUREKA 4850DI-B-48-LED-LED-40-90-277V-DV-XX-AC-XX-RCC-WHE-WH-XX		48" DIAMETER RING PENDANT DIRECT/INDIRECT, FIELD CUTTABLE AIRCRAFT CABLES	40K	DIRECT: 3811LM INDIRECT: 4429LM	1	0-10	1%	78W	277V	GRID	SUSPENDED	NOTE 1,2
LEB	EUREKA 4850DI-B-60-LED-LED-40-90-277V-DV-XX-AC-XX-RCC-WHE-WH-XX		60" DIAMETER RING PENDANT DIRECT/INDIRECT, FIELD CUTTABLE AIRCRAFT CABLES	40K	DIRECT: 4759LM INDIRECT: 5536LM	1	0-10	1%	97.4W	277V	GRID	SUSPENDED	NOTE 1,2
LFA	EUREKA 4851DI-48-LED-LED-40-90-277V-DV-XX-AC-XX-XX-RCC-WHE-WH-XX-XX		48" DIAMETER ACOUSTIC RING PENDANT DIRECT/INDIRECT, FIELD CUTTABLE AIRCRAFT CABLES	40K	DIRECT: 3811LM INDIRECT: 4429LM	1	0-10	1%	78W	277V	GRID	SUSPENDED	NOTE 1,2
LS	LITHONIA CSS-L48-AL03-MVOLT-MIN1-ZT-40K-80CRI	DAYBRITE FSS METALUX SNX COLUMBIA MPS	48" LINEAR STRIP LIGHT. ACRYLIC ROUNDED DIFFUSE LENS. STEEL HOUSING WITH END CAPS AND WHITE FINISH, 80 CRI MINIUMUM, DAMP LOCATION, UNIVERSAL WALL AND CEILING MOUNT, PROVIDE WITH CHAIN OR CABLE HANGER SYSTEM WHEN NOTED AS SUSPENDED	40K	4000LM	1	0-10	1%	30	UNV	STRUCTURE	SUSPENDED	
XA	LITHONIA LQM-S-W-RG-MVOLT	CHLORIDE CLX ISOLITE RL SURELITE LPX DUAL LITE EVE	DUAL FACE EXIT SIGN, THERMOPLASTIC HOUSING, WHITE WITH RED LETTERS, UNIVERSAL MOUNTING, UNIVERSAL DIRECTIONAL CHEVRON INSERTS, SELF-DIAGNOSTICS	-	-	1	ND	N/A	-	UNV	VARIES	-	

KEY:
3W=THREE WIRE DIMMING
0-10=0-10V DIMMED
DA=DIGITAL ADDRESSABLE
ND=NON-DIMMED
SD=STEP DIMMED
DMX=DMX ENABLED

GENERAL NOTES:
A. REFER TO SPECIFICATION 26 5000 FOR ADDITIONAL REQUIREMENTS.
B. PROVIDE A MINIMUM 5 YEAR WARRANTY FROM SUBSTANTIAL COMPLETION ON ALL LED PRODUCTS.
C. EQUIVALENT MANUFACTURERS LISTED SHALL MEET PERFORMANCE REQUIREMENTS OF THE BASE FIXTURE SPECIFIED. EQUIVALENTS SHALL NOT CONSUME MORE THAN 10% IN WATTAGE OR BE LESS THAN 5% IN LUMENS.
D. COORDINATE WITH ARCHITECTURAL CEILING PLANS FOR CEILING TYPES PRIOR TO SUBMITTAL PROCESS, VERIFY PLANNED CEILING TYPES COORDINATE WITH SPECIFIED FIXTURES.
E. COORDINATE FIXTURES LOCATED IN NON-ACCESSIBLE CEILINGS ARE ACCESSIBLE FROM BELOW THROUGH THE FIXTURE, PRIOR TO SUBMITTAL PROCESS.
F. COORDINATE DRIVER TYPE WITH THE LIGHTING CONTROL SYSTEM, PRIOR TO SUBMITTAL PROCESS.

SPECIFIC NOTES:
1. COORDINATE WITH ARCHITECT FOR PENDANT SUSPENSION HEIGHTS.
2. FIXTURE FINISH TO BE SELECTED IN SHOP DRAWINGS.

LIGHTING CONTROL DEVICE SCHEDULE

PLAN MARK	DESCRIPTION	MOUNTING	NOTES
OS-A	PIR WIRELESS SENSOR	CEILING	SMALL MOTION
OS-B	PIR WIRELESS SENSOR	CEILING	LARGE MOTION
OS-C	PIR LINE VOLTAGE SENSOR - SWITCH	WALL SWITCH HEIGHT	STAND-ALONE SWITCH/SENSOR SINGLE-ZONE

GENERAL NOTES:
A. LOCATIONS OF CEILING DEVICES MAY REQUIRE ADJUSTMENT AFTER INSTALLATION.
B. REFER TO SPECIFICATION SECTION 26 0923 - LIGHTING CONTROL SYSTEMS FOR MORE INFORMATION.

NOTES:

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

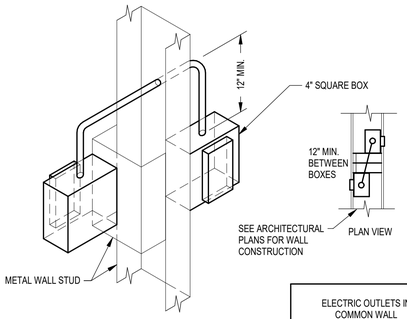
REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Electrical Lighting Schedules and Controls

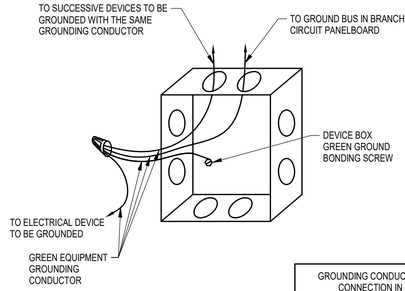
DATE
07.23.2026
DRAWING NUMBER
E520
PROJECT NUMBER
25030

BID SET



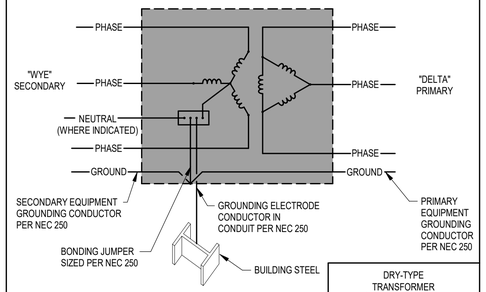
ELECTRIC OUTLETS IN COMMON WALL

E-200



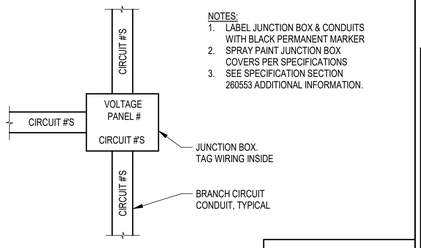
GROUNDING CONDUCTOR CONNECTION IN DEVICE BOX

E-201



DRY-TYPE TRANSFORMER GROUNDING DETAIL

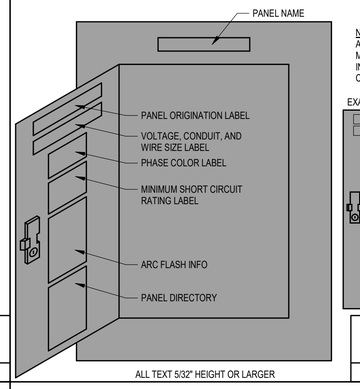
E-102



NOTES:
1. LABEL JUNCTION BOX & CONDUITS WITH BLACK PERMANENT MARKER
2. SPRAY PAINT JUNCTION BOX COVERS PER SPECIFICATIONS
3. SEE SPECIFICATION SECTION 260553 ADDITIONAL INFORMATION.

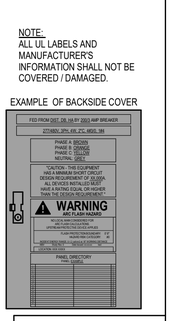
RACEWAY/WIRING IDENTIFICATION

E-350a



NOTE:
ALL UL LABELS AND MANUFACTURER'S INFORMATION SHALL NOT BE COVERED / DAMAGED.

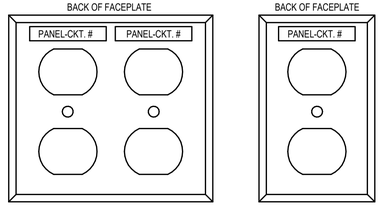
EXAMPLE OF BACKSIDE COVER



TYPICAL PANEL LABELING DETAIL

E-350b

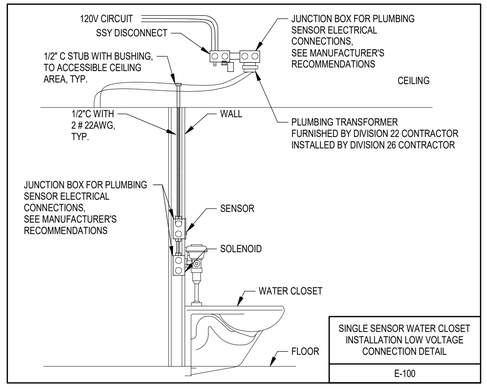
ALL TEXT 5/32" HEIGHT OR LARGER



TYPICAL FACEPLATE LABELING DETAIL

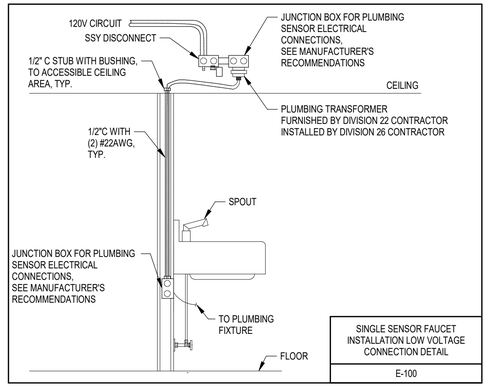
E-350d

ALL TEXT 5/32" HEIGHT OR LARGER



SINGLE SENSOR WATER CLOSET INSTALLATION LOW VOLTAGE CONNECTION DETAIL

E-100



SINGLE SENSOR FAUCET INSTALLATION LOW VOLTAGE CONNECTION DETAIL

E-100

LOW VOLTAGE PLUMBING CONNECTION NOTES:

1. ELECTRICAL CONTRACTOR SHALL MAKE ALL TERMINATIONS TO PLUMBING TRANSFORMER AND SENSORS.
2. COORDINATE ROUGH IN LOCATIONS OF ALL ELECTRICAL BOXES WITH DIVISION 22 CONTRACTOR.
3. COORDINATE LOCATION OF 1/2"C STUB FOR SINK/FAUCET TO ENSURE CLEAN INSTALLATION. ALL WIRES SHALL BE CONCEALED BEHIND SINK.
4. ALL CONDUITS SHALL BE CONCEALED IN PERMANENT WALL CONSTRUCTION AND STUBBED TO AN ACCESSIBLE LOCATION.

LOW VOLTAGE CONNECTION DETAIL NOTES

E-100

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Electrical Details

DATE
07.23.2026

DRAWING NUMBER
E530

BID SET

PROJECT NUMBER
25030

FIRE ALARM SYMBOLS

(NOTE: ALL SYMBOLS SHOWN MAY NOT BE REQUIRED FOR THIS PROJECT)

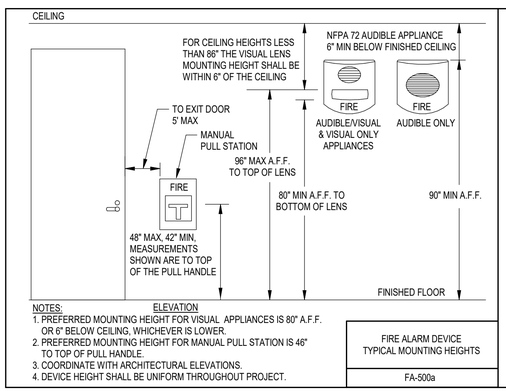
*** FIRE ALARM SYSTEM ***

- MANUAL PULL STATION 46" ABOVE FLOOR
- SMOKE DETECTOR - CEILING MOUNTED
  E - ELEVATOR
  SB - SOUNDER BASE
  CO - CARBON MONOXIDE
  D - FIRE DOOR
- SMOKE DETECTOR - WALL MOUNTED
  E - ELEVATOR
  SB - SOUNDER BASE
  CO - CARBON MONOXIDE
  D - FIRE DOOR
- THERMAL DETECTOR, RATE OF RISE TYPE
  200=200 DEGREE TYPE
- THERMAL DETECTOR, RATE OF RISE TYPE - WALL MOUNTED
  200=200 DEGREE TYPE
- SMOKE DETECTOR IN DUCT
- BEAM SMOKE DETECTOR - CEILING MOUNTED
  T = TRANSMITTER / RECEIVER
  R = REFLECTOR
- BEAM SMOKE DETECTOR - WALL MOUNTED
  T = TRANSMITTER / RECEIVER
  R = REFLECTOR
- VISUAL / AUDIO NOTIFICATION DEVICE - CEILING MOUNTED
  B - BELL
  C - CHIME
  H - HORN
  S - SPEAKER
  ##CD - CANDELA VALUE
  A - AMBER STROBE, OMISSION OF AN 'A' IS A CLEAR STROBE
- VISUAL / AUDIO NOTIFICATION DEVICE - WALL MOUNTED
  80" ABOVE FLOOR OR AS NOTED
  B - BELL
  C - CHIME
  H - HORN
  S - SPEAKER
  ##CD - CANDELA VALUE
  A - AMBER STROBE, OMISSION OF AN 'A' IS A CLEAR STROBE
- VISUAL NOTIFICATION LIGHT - CEILING MOUNTED
  ##CD - CANDELA VALUE
  A - AMBER STROBE, OMISSION OF AN 'A' IS A CLEAR STROBE
- VISUAL NOTIFICATION LIGHT - WALL MOUNTED
  80" ABOVE FLOOR OR AS NOTED
  ##CD - CANDELA VALUE
  A - AMBER STROBE, OMISSION OF AN 'A' IS A CLEAR STROBE
- AUDIO NOTIFICATION DEVICE - CEILING MOUNTED
  B - BELL
  C - CHIME
  H - HORN
  S - SPEAKER
- AUDIO NOTIFICATION DEVICE - WALL MOUNTED
  80" ABOVE FLOOR OR AS NOTED
  B - BELL
  C - CHIME
  H - HORN
  S - SPEAKER
- ELECTROMAGNETIC DOOR HOLDER - CEILING OR FLOOR MOUNTED
- ELECTROMAGNETIC DOOR HOLDER - WALL MOUNTED
- SPRINKLER ALARM FLOW SWITCH
- SPRINKLER ALARM TAMPER SWITCH
- MONITOR MODULE
- CONTROL MODULE
- TEST SWITCH
- FAN SHUT-DOWN OR CONTROL RELAY
- SMOKE OR FIRE/SMOKE DAMPER CONNECTION
- SMOKE DAMPER CONNECTION
- DAMPER INDICATING LIGHT - CEILING MOUNTED
- DAMPER INDICATING LIGHT - WALL MOUNTED
- REMOTE LED FOR DETECTOR ANNUNCIATION - CEILING MOUNTED
- REMOTE LED FOR DETECTOR ANNUNCIATION - WALL MOUNTED
- FIRE ALARM VOICE PHONE JACK
- EQUIPMENT CONNECTION
- EQUIPMENT CONNECTION - WALL MOUNTED
- FIRE ALARM CONTROL PANEL - RECESSED
- FIRE ALARM CONTROL PANEL - SURFACE
- ANY WIRING DEVICE WITH THIS SYMBOL INDICATES SURFACE MOUNTED OUTLET BOX

GENERAL FIRE ALARM NOTES:

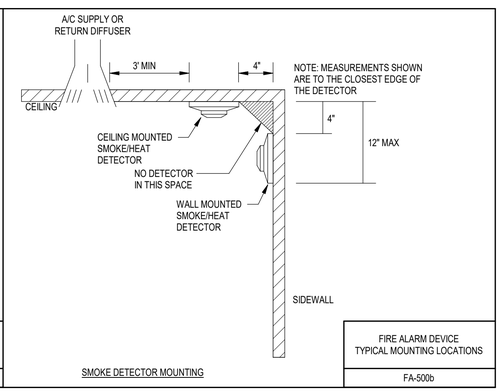
1. EXTEND AND MODIFY EXISTING NOTIFIER NFW2-100 FIRE WARDEN ADDRESSABLE FIRE ALARM SYSTEM.
2. THE BUILDING WILL REMAIN OCCUPIED THROUGHOUT CONSTRUCTION. THE FIRE ALARM SYSTEM SHALL NOT BE DISABLED WHILE THE BUILDING IS OCCUPIED.
3. REFER TO PLANS AND SPECIFICATIONS FOR MORE INFORMATION. EQUIPMENT SUPPLIER SHALL REVIEW PLANS FOR DEVICE QUANTITIES AND TYPES. EQUIPMENT SUPPLIER SHALL VERIFY AUDIBLE NOTIFICATION APPLIANCE LOCATIONS SHOWN ON PLANS MEET NFPA'S REQUIREMENTS FOR AUDIBILITY BY SETTING NOTIFICATION TAPS APPROPRIATELY. EVERY EFFORT IS MADE TO SHOW NECESSARY FIRE ALARM COMPONENTS FOR WORKING SYSTEM, BUT IT IS THE EQUIPMENT SUPPLIER'S RESPONSIBILITY TO FURNISH ALL DEVICES AND MATERIALS (I.E., CONTROL MODULES, MONITOR MODULES, RELAYS, ETC.) WHETHER SPECIFICALLY SHOWN OR NOT ON PLANS FOR COMPLETE OPERATING SYSTEM WITHOUT ADDITIONAL COST TO THE OWNER/PROJECT.
   a. VISUAL NOTIFICATION APPLIANCES HAVE BEEN PLACED TO MEET THE PRESCRIPTIVE REQUIREMENTS OF NFPA 72. THE FIRE ALARM VENDOR SHALL VERIFY VISUAL NOTIFICATION COVERAGE AND ADJUST QUANTITIES AND CANDELA OUTPUT AS REQUIRED.
   b. AUDIBLE NOTIFICATION APPLIANCES SHALL PROVIDE A SOUND PRESSURE LEVEL (SPL) OF 15DBA ABOVE AMBIENT SOUND LEVEL. THE FIRE ALARM VENDOR SHALL DETERMINE SPEAKER TAPS REQUIRED TO MEET THIS REQUIREMENT.
4. THE DETERMINATION OF FIRE ALARM WIRING REQUIREMENTS ARE THE RESPONSIBILITY OF THE FIRE ALARM SYSTEM VENDOR.
   a. WIRE GUAGES SHALL BE DETERMIINED BASED ON VOLTAGE DROP CALCULATIONS IN ACCORDANCE WITH NFPA 72.
   b. WHERE PARTIAL EVACUATION IS NOTED, THE FIRE ALARM SYSTEM SHALL MEET SURVIVABILITY REQUIREMENTS AS REQUIRED BY NFPA 72. PROVIDE A UL 2196 2-HOUR RATED CIRCUIT INTEGRITY CABLE SYSTEM.
5. WHEN FACP IS IN ALARM CONDITION, FIRE FIGHTING PERSONNEL SHALL BE ABLE TO SHUTDOWN AIR HANDLING UNITS FROM FACP.
6. EQUIPMENT BY-PASSED IN SOFTWARE SHALL NOT CHANGE STATE OF CONDITION DURING A SYSTEM RESET.
7. EACH NOTIFICATION APPLIANCE CIRCUIT AND VISUAL CIRCUIT SHALL BE SIZED TO INCLUDE 20 PERCENT SPARE CAPACITY PER CIRCUIT FOR FUTURE CONNECTION OF HORNS AND STROBES ONCE ALL PHASES HAVE BEEN COMPLETED. THE SPECIFIC CAPACITY NOTED ON THE DRAWINGS FOR KNOWN FUTURE ADDITIONS SHALL BE INCLUDED IN ADDITION TO THE 20 PERCENT.
8. EACH BUILDING AREA SHALL HAVE A MINIMUM OF ONE AUDIO/VISUAL CIRCUIT AND ONE SIGNAL LINE CIRCUIT. EQUIPMENT SUPPLIER SHALL LAYOUT WORK ACCORDINGLY WHERE MULTIPLE CIRCUITS ARE REQUIRED PER FLOOR. ALL CIRCUITS SHALL BE CLEARLY SHOWN ON SHOP DRAWINGS.
9. SMOKE DAMPER INDICATOR LIGHTS SHALL BE INSTALLED IN ELECTRICAL ROOMS WHENEVER POSSIBLE AND LABELED PROPERLY.
10. HEATING/VENTILATION AND AIR CONDITIONING SEQUENCE OF OPERATION AS CONTROLLED BY FIRE ALARM SYSTEM:
    a. WHEN A DUCT DETECTOR(S) GOES INTO ALARM, THE ASSOCIATED FIRE SMOKE DAMPER AND ALL FIRE SMOKE DAMPERS SERVING THE SAME SHAFT ON THAT FLOOR SHALL CLOSE. ALL OTHER FIRE SMOKE DAMPERS SHALL REMAIN OPEN. THE AHU SUPPLY FANS AND EXHAUST FANS SHALL CONTINUE OPERATE.
    b. WHEN DUCT DETECTORS DO GO INTO ALARM CONDITION, FACP SHALL SHOW ALARM AS A "SUPERVISORY" CONDITION. THIS "SUPERVISORY" CONDITION SHALL NOT CAUSE THE AUDIBLE AND VISUAL APPLIANCES TO OPERATE.
    c. WHEN ANY INITIATION DEVICE (SMOKE DETECTORS, HEAT DETECTORS, MONITOR MODULES, PULL STATIONS, ETC.) GOES INTO ALARM CONDITION THE AHU SHALL SHUT DOWN (SUPPLY AND EXHAUST FANS) VIA SIGNAL FROM THE FIRE ALARM SYSTEM TO THE BUILDING AUTOMATION SYSTEM (BAS). ALL FIRE/SMOKE DAMPERS ASSOCIATED WITH THE UNIT IN ALARM SHALL CLOSE.
    d. ALL FIRE SMOKE DAMPERS SHALL SHUT ON SIGNAL FROM BUILDING AUTOMATION SYSTEM IF AHU IS SHUT DOWN IN ACCORDANCE WITH THE BUILDING CODE.
11. FOLLOWING IS ELEVATOR SEQUENCE OF OPERATION FOR RECALL (EXISTING).
    a. WHEN A SMOKE DETECTOR IN ANY OF THE LOBBIES, HOISTWAY, OR THE ELEVATOR MACHINE ROOM SERVING THAT ELEVATOR GO INTO ALARM, RECALL SHALL BE INITIATED BY THE FIRE ALARM SYSTEM AND THE ELEVATOR CAR SHALL RETURN TO THE PRIMARY FLOOR OR THE ALTERNATE FLOOR OF RECALL BASED ON WHICH DEVICE IS IN ALARM. WHEN SMOKE DETECTOR IN THE ELEVATOR MACHINE ROOM GOES INTO ALARM, THE FIRE HELMET IN ELEVATOR CAB SHALL FLASH.
    b. ACTIVATION OF A HEAT DETECTOR IN THE ELEVATOR MACHINE ROOM OR ELEVATOR HOISTWAY SHALL INITIATE THE ELEVATOR POWER SHUNT-TRIP SEQUENCE. UPON ACTIVATION OF A HEAT DETECTOR, THE FACP SHALL RECALL ALL ELEVATORS TO THE PRIMARY RECALL LEVEL AND SHUNT-TRIP CIRCUIT BREAKERS AFTER A PRE-PROGRAMMED TIME DELAY. THE TIME DELAY SHALL BE COORDINATED WITH THE ELEVATOR VENDOR AND BE OF SUFFICIENT TIME TO ALLOW ELEVATOR RECALL.
12. ALL FIRE ALARM WIRING SHALL BE IN FACTORY FINISHED RED CONDUIT. CONTRACTOR SHALL PROVIDE AND INSTALL JUNCTION BOXES IN MAIN FEEDER RUNS EVERY THIRTY FEET AS A MAXIMUM. DEVICES SHALL NOT BE PHYSICALLY CONNECTED TO THESE JUNCTION BOXES BUT HAVE 4 TO 6 FOOT WHIPS FROM MAIN FEEDER JUNCTION BOXES TO DEVICE JUNCTION BOX.
13. CONTRACTOR SHALL PERFORM TESTING AND FINAL TESTING OF SYSTEM PER SPECIFICATIONS INCLUDING AUDIO SYSTEM PERFORMANCE TESTING.
14. PROVIDE DEDICATED 120V CIRCUITS FOR ALL REQUIRED FIRE ALARM COMPONENTS INCLUDING THE MAIN FIRE ALARM CONTROL PANEL (FACP), TRANSPONDER PANELS, FIRE SMOKE DAMPERS AND NOTIFICATION APPLIANCE CIRCUIT (NAC) PANELS.
15. PROVIDE ALL PROGRAMMING FOR A COMPLETE AND OPERATIONAL SYSTEM; VERIFY ALL ROOM NUMBERS AND NAMES WITH OWNER PRIOR TO PROGRAMMING.

FIRE ALARM KEYED NOTES	
FA-1	ROOM SERVED BY RTU OVER 2000 CFM. AREA SMOKE DETECTION PROVIDED FOR RTU SHUT-DOWN IN LIEU OF DUCT MOUNTED SMOKE DETECTOR. ACTIVATION OF AREA SMOKE DETECTOR SHALL SHUT DOWN RTU-31 AND INITIATE GENERAL ALARM.
FA-2	RTU IS OVER 2000CFM, BUT IS INCABABLE OF SPREADING SMOKE BEYOND THE WALL OF THE SPACE IT SERVES. SHUT-DOWN AND DETECTION IS NOT REQUIRED.
FA-3	RTU TO SHUT DOWN IF SMOKE IS DETECTED IN CLASSROOM 2068A OR 2068B. AREA DETECTION USED IN LIEU OF A DUCT MOUNTED SMOKE DETECTOR.
FA-4	REINSTALL EXISTING DEVICE IN NEW CEILING.



FIRE ALARM DEVICE TYPICAL MOUNTING HEIGHTS

FA-500a



FIRE ALARM DEVICE TYPICAL MOUNTING LOCATIONS

FA-500b

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

Fire Alarm Notes and Symbols

DATE
07.23.2026

DRAWING NUMBER
FA000

BID SET

PROJECT NUMBER
25030



1 FA111.A FIRE ALARM PLAN - LEVEL1 - Area A (Southwest)
1/8" = 1'-0"

KEYED NOTES

FA-4	REINSTALL EXISTING DEVICE IN NEW CEILING.

NEW WORK KEY
- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT

KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Fire Alarm Plan - Level 1 - Area A

DATE 07.23.2026
DRAWING NUMBER FA111.A
BID SET
PROJECT NUMBER 25030

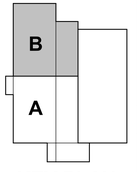


1 FA111.B FIRE ALARM PLAN - LEVEL 1 - Area B (Northwest)
1/8" = 1'-0"

KEYED NOTES

FA-4	REINSTALL EXISTING DEVICE IN NEW CEILING.

NEW WORK KEY
- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT



KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

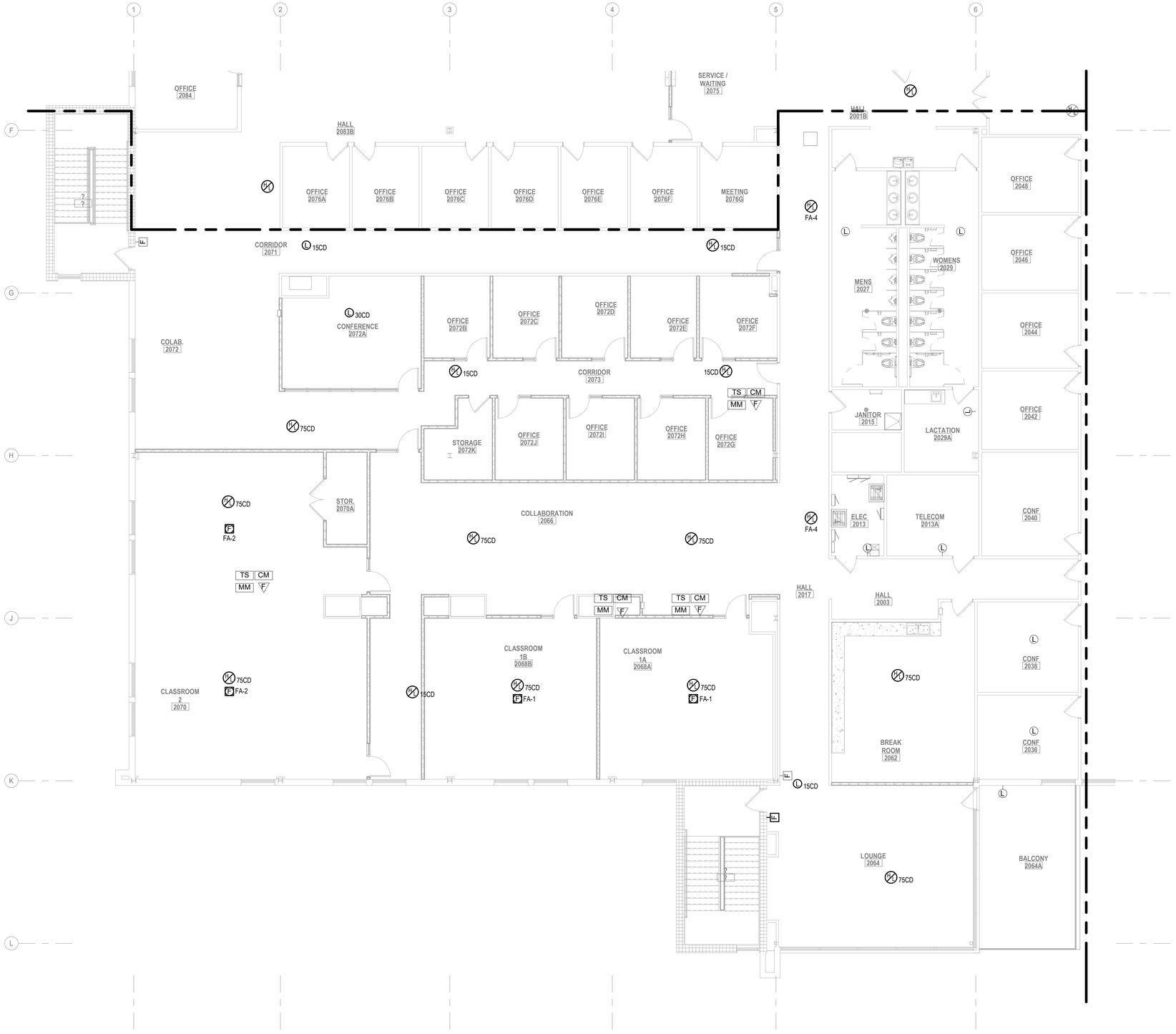
REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Fire Alarm Plan - Level 1 - Area B

DATE
07.23.2026
DRAWING NUMBER
FA111.B
PROJECT NUMBER
25030

BID SET



KEYED NOTES	
FA-1	ROOM SERVED BY RTU OVER 2000 CFM. AREA SMOKE DETECTION PROVIDED FOR RTU SHUT-DOWN IN LIEU OF DUCT MOUNTED SMOKE DETECTOR. ACTIVATION OF AREA SMOKE DETECTOR SHALL SHUT DOWN RTU-31 AND INITIATE GENERAL ALARM.
FA-2	RTU IS OVER 2000CFM, BUT IS INCABABLE OF SPREADING SMOKE BEYOND THE WALL OF THE SPACE IT SERVES. SHUT-DOWN AND DETECTION IS NOT REQUIRED.
FA-4	REINSTALL EXISTING DEVICE IN NEW CEILING.

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

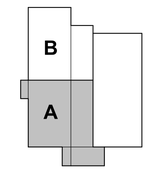
REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

Fire Alarm Plan - Level 2 - Area A

NEW WORK KEY
EXISTING
NEW / REVISED
EXISTING EQUIPMENT
NEW / REVISED EQUIPMENT

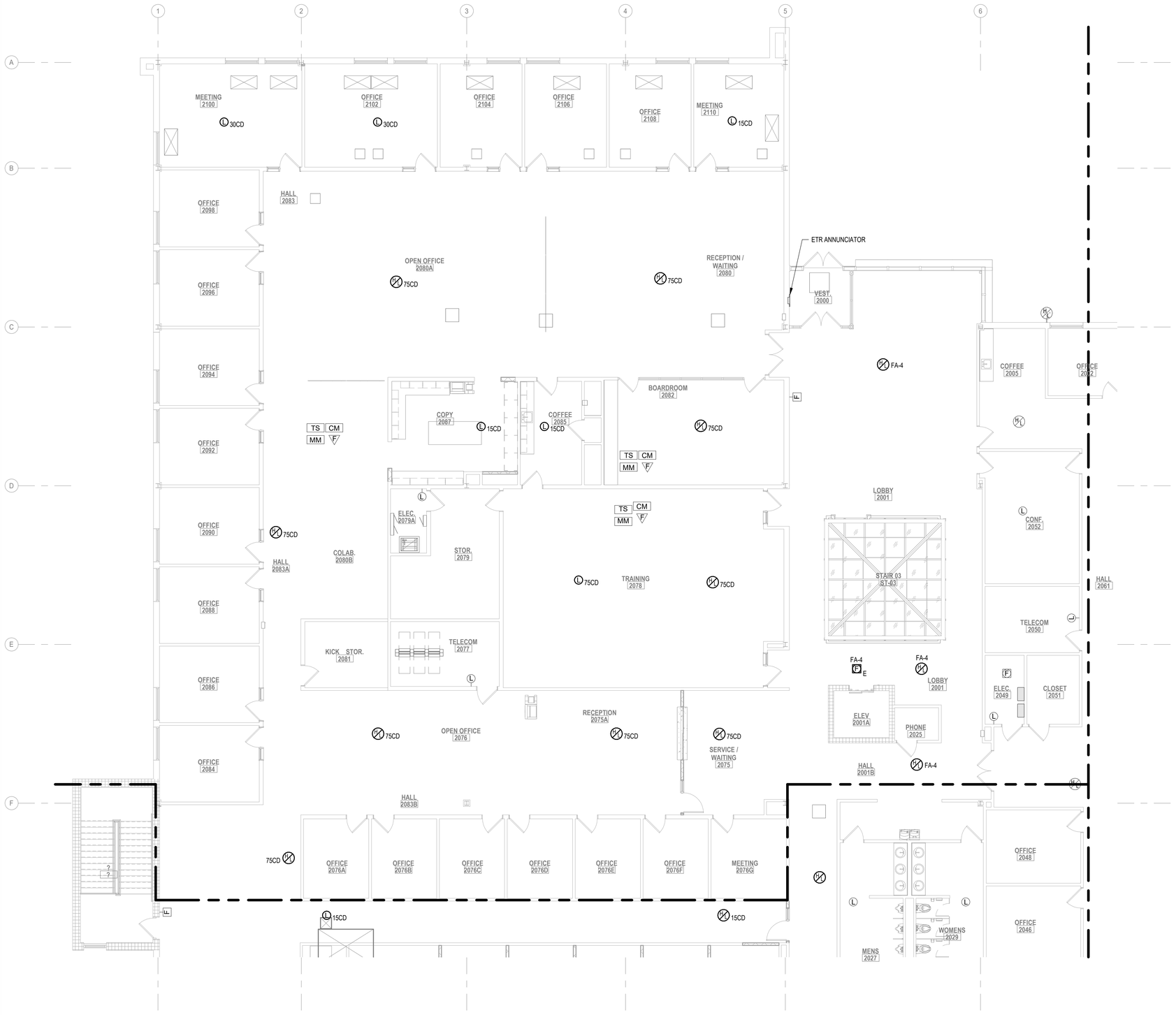


KEY PLAN

DATE
07.23.2026
DRAWING NUMBER
FA112.A
PROJECT NUMBER
25030

BID SET

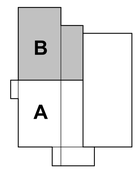
1 FA112.A FIRE ALARM PLAN - LEVEL1 - Area A (Southwest)
1/8" = 1'-0"



1 FA112.B FIRE ALARM PLAN - LEVEL 2 - Area B (Northwest)
1/8" = 1'-0"

KEYED NOTES	
FA-4	REINSTALL EXISTING DEVICE IN NEW CEILING.

NEW WORK KEY
- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT



KEY PLAN

N

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

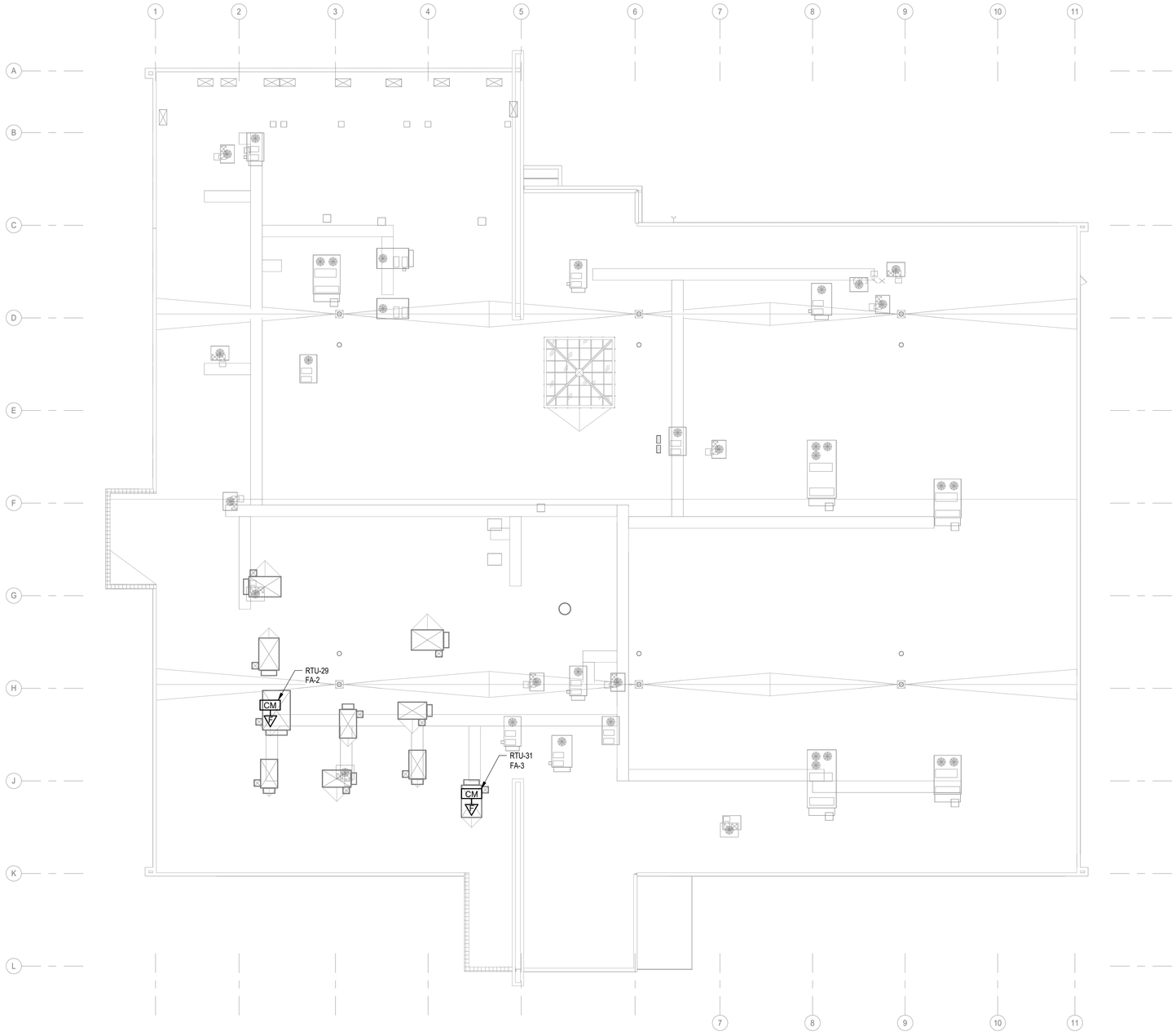
All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Fire Alarm Plan - Level 2 - Area B

DATE
07.23.2026
DRAWING NUMBER
FA112.B
BID SET
PROJECT NUMBER
25030



1 FA113 OVERALL FIRE ALARM PLAN - ROOF
1/16" = 1'-0"

KEYED NOTES	
FA-2	RTU IS OVER 2000CFM, BUT IS INCABABLE OF SPREADING SMOKE BEYOND THE WALL OF THE SPACE IT SERVES. SHUT-DOWN AND DETECTION IS NOT REQUIRED.
FA-3	RTU TO SHUT DOWN IF SMOKE IS DETECTED IN CLASSROOM 2068A OR 2068B. AREA DETECTION USED IN LIEU OF A DUCT MOUNTED SMOKE DETECTOR.

NEW WORK KEY	
	EXISTING
	NEW / REVISED
	EXISTING EQUIPMENT
	NEW / REVISED EQUIPMENT

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

Overall Fire Alarm Plan - Roof

DATE
07.23.2026
DRAWING NUMBER
FA113

BID SET

PROJECT NUMBER
25030

COMMUNICATIONS ABBREVIATION

(NOTE: ALL ABBREVIATIONS SHOWN MAY NOT BE REQUIRED FOR THIS PROJECT)

*** ABBREVIATIONS ***

2P	DOUBLE POLE SWITCH
2WAY	TWO-WAY
3R	NEMA 3R ENCLOSURE
3WAY	THREE-WAY
4WAY	FOUR-WAY
4X	NEMA 4X ENCLOSURE
ACT	ACOUSTICAL CEILING TILE
AFF	ABOVE FINISHED FLOOR
AP	ACCESS POINT
BAT	BATTERY
BL	BELL
BND	BOUNDARY
C	CONDUIT
CAM	CAMERA
CCT	CHARGE CONTROLLER
CEL	CELLULAR PHONE
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CKT	CIRCUIT
CLK	CLOCK
CPU	CENTRAL PROCESSING UNIT
DMARC	DEMARCATION POINT
DN	DOWN (DIRECTION)
DP	DOUBLE POLE
ELEV	ELEVATOR
EMEMER	EMERGENCY EQUIPMENT
EMER	EMERGENCY
ETR	EXISTING TO REMAIN
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FLR	FLOOR
FO	FIBER OPTIC
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GND	GROUND
GNK	GOOSENECK
HDW	HARDWIRED
HF	HIGH FREQUENCY
HH	HAND HOLE
HRN	HORN
I/O	INPUT/OUTPUT
IC	INTERCOM
IP	INTERNET PROTOCOL
IR	INFRARED
JB	JUNCTION BOX
JK	JACK
LAN	LOCAL AREA NETWORK
MASK	SOUND MASKING
MH	MANHOLE
MLB	MOBILE
MOT	MOTORIZED
MP	MODULAR PLUG TERMINATION
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
O	OUTDOOR
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OHD	OVERHEAD DOOR
P	POLE
PB	PUSHBUTTON
PDU	POWER DISTRIBUTION UNIT
PH	PHONE
PNL	PANEL
PRI	PRIMARY
PRN	PRINTER
PTP	POINT TO POINT
PTT	PUSH TO TALK
PWR	POWER
RCP	REFLECTED CEILING PLAN
RCPT	RECEPTACLE
REL	RELOCATE
REM	REMOTE
REQD	REQUIRED
RS	ROOM SCHEDULER
SAT	SATELLITE
SC	SMART CARD
SIM	SIMILAR
SPEC	SPECIFICATION
SPK	SPEAKER
STD	STANDARD
SVR	SERVER
SW	SWITCHED
TCLK	TIME CLOCK
TCP	TEMPERATURE CONTROL PANEL
TR	TRANSCEIVER
TX	TRANSMITTER
TYP	TYPICAL
UG	UNDERGROUND
UHF	ULTRA HIGH FREQUENCY
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT/ VOLTAGE
VERT	VERTICAL
VID	VIDEO
VOIP	VOICE OVER INTERNET PROTOCOL
W	WALL PHONE
WAP/AP	WIRELESS ACCESS POINT
WB	WALL BOX
WIFI	WI-FI WIRELESS LOCAL AREA NETWORK
WLAN	WIRELESS LOCAL AREA NETWORK
XP	EXPLOSION PROOF

COMMUNICATION SYMBOLS

(NOTE: ALL SYMBOLS SHOWN MAY NOT BE REQUIRED FOR THIS PROJECT)
(NOTE: +## INDICATES DIMENSION HEIGHT TO CENTER OF DEVICE ABOVE FINISHED FLOOR.
IN GENERAL, ALL STANDARD HEIGHT DEVICES ARE TO BE +18" UNLESS NOTED OTHERWISE.)

*** STRUCTURE CABLING DEVICES ***

EQUIPMENT OUTLET FOR VOICE OR DATA USE,
MATCH RECEPTACLE HEIGHT UNLESS OTHERWISE NOTED
- # - INDICATES CABLE AND OUTLET QUANTITY, IF MORE THAN ONE IS REQUIRED.
- XX - DEVICE ABBREVIATION, INDICATES INTENDED EQUIPMENT SERVED BY INFORMATION OUTLET. REFER TO TECHNOLOGY ABBREVIATIONS.
- MOUNTED 8" ABOVE COUNTERTOP OR 4" ABOVE BACKSPLASH UNLESS OTHERWISE NOTED
- INDICATES MULTIPLE CABLE TYPES AS NOTED ON DRAWINGS
- INDICATES EQUIPMENT OUTLET FED THROUGH NON-TYPICAL PATHWAY. (E.G. FURNITURE FEED, WIREMOLD, OR ARCHITECTURAL FEATURE.)

EQUIPMENT OUTLET FOR VOICE OR DATA USE - ABOVE CEILING
- # - INDICATES CABLE AND JACK QUANTITY
- XX - DEVICE ABBREVIATION, INDICATES INTENDED EQUIPMENT SERVED BY EQUIPMENT OUTLET. REFER TO TECHNOLOGY ABBREVIATIONS.

EQUIPMENT OUTLET FOR VOICE OR DATA USE - IN CEILING
- # - INDICATES CABLE AND JACK QUANTITY
- XX - DEVICE ABBREVIATION, INDICATES INTENDED EQUIPMENT SERVED BY EQUIPMENT OUTLET. REFER TO TECHNOLOGY ABBREVIATIONS.

EQUIPMENT OUTLET - MOUNTED IN WALL ACTIVATION BOX
- AB-XX - INDICATES WALL BOX TYPE. REFER TO ELECTRICAL ACTIVATION BOX SCHEDULE ON ELECTRICAL POWER SCHEDULES SHEETS.
- # - INDICATES CABLE AND OUTLET QUANTITY, IF MORE THAN ONE IS REQUIRED.

EQUIPMENT OUTLET - MOUNTED IN FLOOR ACTIVATION BOX
- AB-XX - INDICATES FLOOR BOX TYPE. REFER TO ELECTRICAL ACTIVATION BOX SCHEDULE ON ELECTRICAL POWER SCHEDULES SHEETS.
- # - INDICATES CABLE AND OUTLET QUANTITY, IF MORE THAN ONE IS REQUIRED.

CATV SYSTEM OUTLET

CLOCK - CEILING MOUNTED
- X - INDICATES PLAN MARK OF CLOCK DEVICE, SEE CLOCK SCHEDULE

CLOCK - WALL MOUNTED
- X - INDICATES PLAN MARK OF CLOCK DEVICE, SEE CLOCK SCHEDULE

INTERCOM DEVICE - CEILING OR SURFACE MOUNTED
- X - INDICATES PLAN MARK OF INTERCOM DEVICE, SEE INTERCOM SCHEDULE

INTERCOM DEVICE - WALL MOUNTED
- X - INDICATES PLAN MARK OF INTERCOM DEVICE, SEE INTERCOM SCHEDULE

SPEAKER - CEILING MOUNTED
- X - INDICATES PLAN MARK OF SPEAKER DEVICE, SEE SYSTEM SCHEDULE

SPEAKER - WALL MOUNTED
- X - INDICATES PLAN MARK OF SPEAKER DEVICE, SEE SYSTEM SCHEDULE

*** TYPICAL EQUIPMENT ***

TECHNOLOGY RACK - 2 POST
— — CLEARANCE BORDER

TECHNOLOGY RACK - 4 POST
— — CLEARANCE BORDER

SPECIAL CABINET AS NOTED - SURFACE MOUNTED

SPECIAL CABINET AS NOTED - RECESSED MOUNTED

GROUND BAR

SPD — SURGE PROTECTION DEVICE

*** TYPICAL RACEWAYS ***

HBT-# — WIRE BASKET
- HBT-# - # INDICATES WIRE BASKET TRAY WIDTH. REFER TO THE SCHEDULE FOR ADDITIONAL DETAILS

HLT-# — LADDER RACK
- HLT-# - # INDICATES LADDER TRAY WIDTH. REFER TO THE SCHEDULE FOR ADDITIONAL DETAILS

CABLE J-HOOKS

CONDUIT STUB

CONDUIT CONTINUATION

CONDUIT TURNING UP

CONDUIT TURNING DOWN

PULL BOX

JUNCTION BOX - IN FLOOR BOX OR CEILING

JUNCTION BOX - WALL MOUNTED

HH — HANDHOLE BOX - IN GROUND

MULTI-DEVICE RACEWAY AS NOTED
□= FEED POINT / JUNCTION BOX
- GENERAL NOTE: BOXED INFORMATION JACK AND OTHER BOXED DEVICES INDICATE RACEWAY MOUNTED

FURNITURE FEED

FURNITURE FEED - WALL MOUNTED

*** TYPICAL DEVICES ***

ANY WIRING DEVICE WITH THIS SYMBOL INDICATES SURFACE MOUNTED OUTLET BOX

ANY WIRING DEVICE WITH THIS SYMBOL INDICATES WIRELESS NETWORK CAPABILITY

GENERAL TECHNOLOGY NOTES:

1. THE DIVISION 26 INSTALLER SHALL STUDY ALL TECHNOLOGY PLANS INCLUDING READING ALL TECHNOLOGY GENERAL AND SPECIFIC NOTES FOR INSTRUCTIONS THAT WILL AFFECT OR PERTAIN TO THE DIVISION 26 SCOPE OF WORK.
2. THE DIVISION 26 INSTALLER SHALL PROVIDE AND INSTALL ALL TECHNOLOGY CONDUITS PATHWAYS PER ANSI TIA-569 AND SPEC SECTION 26 05 33 UNLESS NOTED OTHERWISE.
3. THE DIVISION 26 INSTALLER SHALL PROVIDE ALL COMMUNICATION CONDUITS TO ACCESSIBLE CEILING SPACE (THEY SHALL NOT BE TERMINATED ABOVE HARD LIDS OR IN EXPOSED AREAS). UNLESS INSTRUCTED OTHERWISE, STUB ALL COMMUNICATION CONDUITS TO THE ACCESSIBLE CEILING SPACE IN THE SAME ROOM AS THE OPENING.
4. WHERE SPECIFIC CONDUIT ROUTING IS REQUIRED TO MEET CABLING DISTANCE PARAMETERS OR TO INSTALL WIRING TO A SPECIFIC LOCATION, ADDITIONAL SCHEMATIC ILLUSTRATIONS ON THE FLOOR PLAN WILL GENERALLY BE PROVIDED. ILLUSTRATIONS ARE NOT INCLUDED FOR ALL TECHNOLOGY DEVICES OR CABLING ROUTES. WHEN NOT ILLUSTRATED, THE REQUIREMENT FOR CONDUIT TO BE ROUTED FROM ALL TECHNOLOGY DEVICES TO THE ACCESSIBLE CEILING REMAINS.
5. NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO (2) 90 DEGREE BENDS, OR EQUIVALENT, BETWEEN PULL POINTS. E.G., OUTLET BOXES, PULL BOXES, DISTRIBUTION ROOMS.
6. A PULL BOX SHALL BE PLACED IN A CONDUIT RUN WHERE: THE LENGTH IS OVER 100 FT, THERE ARE MORE THAN TWO 90 DEGREE BENDS OR EQUIVALENT, THERE IS A REVERSE U-SHAPED BEND IN THE CONDUIT RUN.
7. PULL BOXES SHALL BE PLACED IN A STRAIGHT SECTION OF CONDUIT AND SHALL NOT BE USED IN PLACE OF A BEND. THE CORRESPONDING CONDUIT ENDS SHOULD BE ALIGNED WITH EACH OTHER.
8. A PULL BOX SHALL BE ACCESSIBLE.
9. A PULL BOX SHALL NOT BE PLACED IN AN INACCESSIBLE CEILING SPACE UNLESS IMMEDIATELY ABOVE A SUITABLE MARKED ACCESS PANEL.
10. CONDUIT BODY FITTINGS E.G., LB OR LC FITTINGS ARE NOT CONSIDERED PULL BOXES AND SHALL NOT BE USED WHERE A PULL BOX IS REQUIRED PER ANSI OR UNLESS NOTED OTHERWISE.
11. THE DIVISION 26 INSTALLER SHALL NOT DAISY CHAIN ANY TECHNOLOGY CABLING OR AV CABLING CONDUITS WHEN ROUTING FROM BOXES TO ACCESSIBLE CEILING SPACES. UNLESS NOTED OTHERWISE.
12. THE DIVISION 26 INSTALLER SHALL PROVIDE AND INSTALL BUSHINGS ON ALL TECHNOLOGY CONDUITS AT THE TIME OF CONDUIT INSTALLATION.
13. CONDUIT MINIMUM SIZES SHALL BE PER DIVISION 26 RACEWAY SPECIFICATIONS UNLESS NOTED OTHERWISE.
14. ALL TECHNOLOGY CABLING IN FINISHED SPACES MUST BE ROUTED CONCEALED WITHIN WALLS UNLESS SPECIFICALLY NOTED OTHERWISE.
15. ALL EXPOSED CABLING IN OPEN TO STRUCTURE SPACES SHALL BE ROUTED IN CONDUIT, WHICH IS TO BE PROVIDED AND INSTALLED BY THE DIVISION 26 INSTALLER UNLESS NOTED OTHERWISE.
16. ALL CABLING BEHIND INACCESSIBLE CONSTRUCTION SUCH AS WITHIN WALLS AND ABOVE DRYWALL CEILINGS SHALL BE ROUTED IN CONDUIT, WHICH IS TO BE PROVIDED AND INSTALLED BY THE DIVISION 26 INSTALLER.
17. ALL WALL PENETRATIONS FOR ROUTING TECHNOLOGY CABLES MUST BE SLEEVED WITH CONDUIT UNLESS NOTED OTHERWISE.
18. ALL HORIZONTAL / SECONDARY CABLE WALL PENETRATIONS SHALL BE EMT CONDUIT SLEEVES SIZED PER THE CONSTRUCTION DRAWINGS WITH BUSHINGS AND FIRE-RATED FOLLOWING THE INSTALLATION OF CABLE IN THEM. UNLESS NOTED OTHERWISE
19. THE INSTALLER SHALL NOT PULL ANY CABLING THROUGH CONDUITS THAT DO NOT HAVE THE REQUIRED BUSHINGS INSTALLED. CABLE, DAMAGED DUE TO BEING INSTALLED THROUGH CONDUITS WITH NO BUSHINGS, SHALL BE REPLACED BY THE INSTALLER AT NO CHARGE TO THE OWNER.
20. THE DIVISION 26 INSTALLER SHALL VERIFY ALL QUANTITIES.
21. COORDINATE ROUTING OF RACEWAY AND EQUIPMENT TO MAINTAIN ACCESS TO FILTERS, MOTORS, ELECTRICAL EQUIPMENT, AND CONTROLS. IN NO CASE SHALL RACEWAY, CABLING BUNDLES, OR EQUIPMENT PASS DIRECTLY OVER ELECTRICAL PANELS OR DISCONNECTS OR RESTRICT ACCESS TO ANY ELECTRICAL EQUIPMENT INCLUDING JUNCTION BOXES.
22. THE DIVISION 26 INSTALLER SHALL FASTEN ALL CABLE PATHWAY HARDWARE TO THE BUILDING STRUCTURE.
23. THE DIVISION 27 INSTALLER SHALL USE HOOK-AND-LOOP FASTENERS ON CABLING EXCLUSIVELY, NO TIE WRAPS.
24. PROVIDE AND INSTALL J-HOOKS IN AREAS WHERE CABLE TRAY DOES NOT EXIST. COORDINATE WITH OTHER DIV.27 SYSTEMS INSTALLERS WHEN THERE ARE OPPORTUNITIES TO SHARE SECONDARY J-HOOKS CABLE PATHWAYS.
25. THE LAST INSTALLER TO INSTALL CABLE IN ANY J-HOOK PATHWAY IS REQUIRED TO LEAVE THE J-HOOK PATHWAY AT OR < THAN 40% FILL. THE SAME INSTALLER SHALL PROVIDE AND INSTALL ADDITIONAL J-HOOKS IF THE FILL RATIO EXCEEDS 40% FILL.
26. THE MAXIMUM DISTANCE BETWEEN ALL J-HOOKS SHALL BE FOUR FEET. ALL J-HOOKS SHALL BE SIZED TO HAVE AT LEAST 40% CAPACITY AVAILABLE FOR FUTURE GROWTH.
27. THE INSTALLER SHALL NOT FASTEN CABLING TO OR LAY CABLING OVER PIPING, DUCTWORK, CONDUITS, CEILING GRID/TILES, OR ANY OTHER BUILDING STRUCTURE ELEMENT OR BUILDING SUPPORT SYSTEM DEVICE. ONLY CONTRACTOR-INSTALLED J-HOOKS, CABLE TRAY, OR OTHERWISE NOTED LOW VOLTAGE PATHWAYS SUPPORTED FROM STRUCTURE SHALL BE USED.
28. THE DIVISION 27 INSTALLER SHALL PROVIDE FIRESTOPPING THAT MEETS THE PENETRATED BARRIER RATING, AS SPECIFIED IN THE ARCHITECTURAL LIFE SAFETY PLANS, IN ALL COMMUNICATION CONDUITS, INCLUDING THOSE CONTAINING CABLING AND THOSE WITHOUT CABLING THAT PENETRATE RATED BARRIERS.
29. ENSURE ALL COMMUNICATION CABLING IS 100% FAULT-FREE. THIS INCLUDES, BUT IT IS NOT LIMITED TO, ISSUES LIKE PAINT OR PAINT OVERSPRAY THAT COULD DEGRADE THE PERFORMANCE OF THE CABLING. IF THE ENGINEER DETERMINES THAT ANY MATERIALS OR PORTIONS OF THE INSTALLATION FAIL TO COMPLY WITH THE SPECIFICATIONS, DRAWINGS, QUALITY, OR PERFORMANCE STANDARDS, THEY SHALL BE REJECTED AND REPLACED BY THE INSTALLER AT NO COST TO THE OWNER. THE INSTALLER SHALL ALSO REMEDY ANY WORK DISTURBED BY THE CHANGES CAUSED BY DEFECTS OR IMPERFECTIONS AT THE INSTALLER'S EXPENSE.
30. THE DIVISION 27 INSTALLER SHALL INITIATE A PRE-INSTALLATION MEETING WITH DIVISION 26 TO REVIEW SLEEVE PLACEMENT BEFORE ROUGH-IN.
31. THE DIVISION 27 INSTALLER SHALL REVIEW ALL DIVISION 27 AND DIVISION 28 SECURITY SECTION PLANS WHEN APPLICABLE, INCLUDING THE ASSOCIATED SYMBOLS LISTS, DETAILS, AND SCHEDULES FOR SCOPE OF WORK RESPONSIBILITIES.
32. THE DIVISION 26 INSTALLER SHALL INCLUDE MATERIAL AND LABOR COST FOR AN ALLOWANCE OF 10 EXTRA 2"X24" CONDUIT SLEEVES TO BE USED AS DIRECTED DURING THE PRE-INSTALLATION MEETING OR AS OTHERWISE DIRECTED BY THE DESIGN PROFESSIONAL OR OWNER.

TECHNOLOGY KEYED NOTES

T-1	EXISTING FLOOR BOX PATHWAY FROM PRIOR PROJECT IS SHOWN FOR REFERENCE AND SHALL BE REUSED. CONTRACTOR SHALL FIELD VERIFY EXISTING 2" CONDUIT PATHWAY FROM FLOOR BOX ROUTED DIRECTLY TO THE NEAREST EAST WALL AND CONTINUING TO ACCESSIBLE CEILING SPACE. PROTECT EXISTING PATHWAY DURING CONSTRUCTION AND REUSE FOR NEW CABLING.
T-2	ROUTE FLOORBOX / FURNITURE FEED CABLING DOWN TO PLAN LEVEL 1, THROUGH EXISTING J-HOOK PATHWAY WHERE AVAILABLE. PROVIDE ADDITIONAL J-HOOKS AS REQUIRED TO COMPLETE ROUTE, THEN ROUTE CABLING UP TO TELECOMMUNICATIONS ROOM 100 VIA EXISTING 4" PATHWAY.
T-3	AT EXISTING WALL, OMIT CONDUIT WITHIN THE WALL AND FISH ROOM SCHEDULER CABLING CONCEALED TO THE OPEN CEILING SPACE ADJACENT TO THE WALL. PROVIDE CONDUIT FROM THE WALL CABLE EXIT POINT TO THE ACCESSIBLE CEILING SPACE. PROVIDE FLUSH-MOUNTED OUTLET BOX AS SCHEDULED. PATCH AND REPAIR EXISTING WALL FINISHES DISTURBED BY THE WORK TO MATCH ADJACENT SURFACES. SURFACE-MOUNTED CABLING OR RACEWAY IS NOT PERMITTED UNLESS APPROVED.
T-4	EXISTING TELECOMMUNICATIONS CABLING TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
T-5	ROUTE CABLE THROUGH THE FURNITURE FEED TO REACH THE DATA DROPS AT THE DESK. COORDINATE THE FINAL CONNECTIONS WITH THE FURNITURE INSTALLATION.

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.062.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

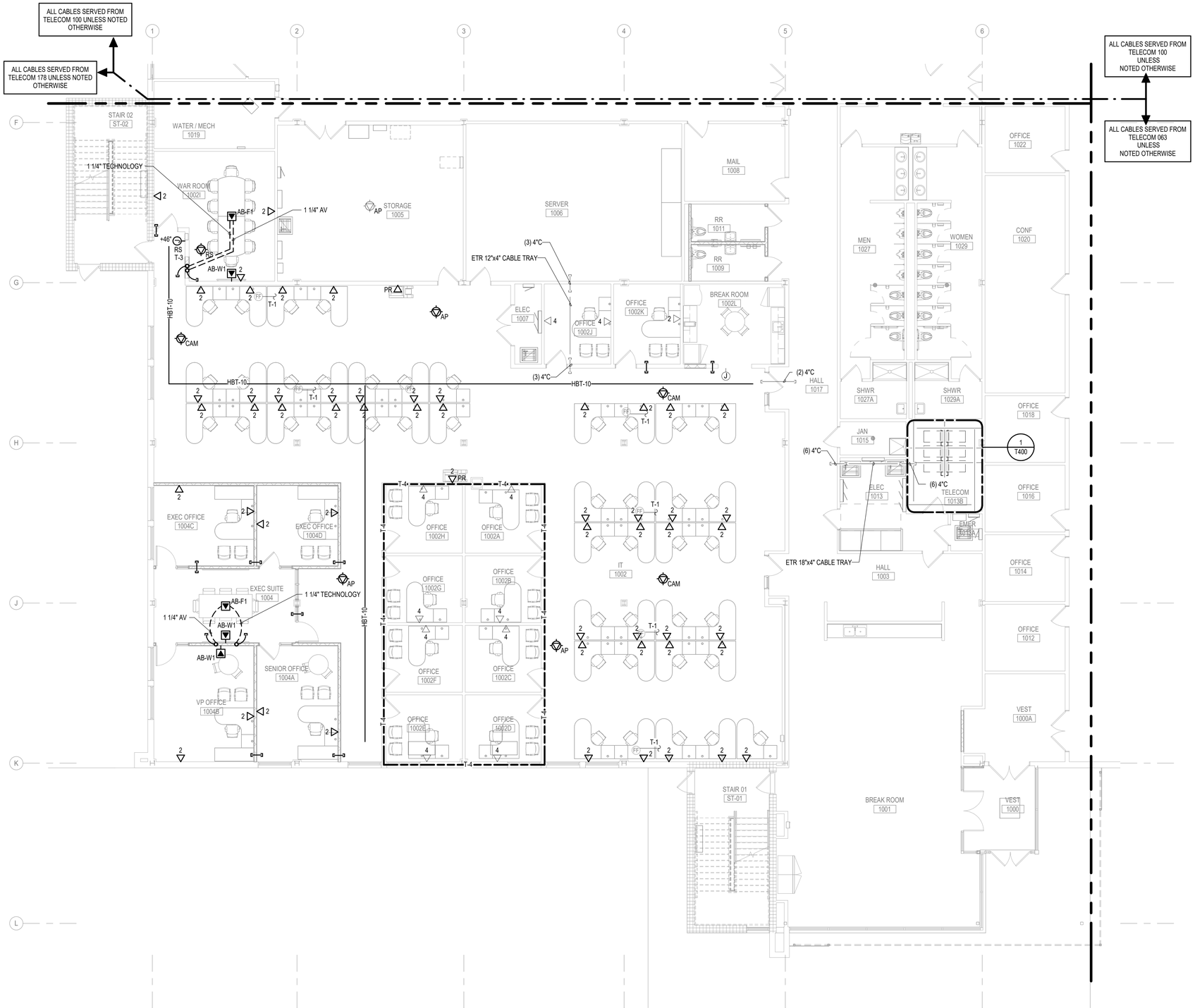
Technology Notes and Symbols

DATE
07.23.2026

DRAWING NUMBER
T000

BID SET

PROJECT NUMBER
25030

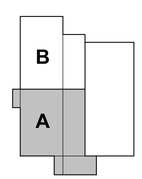


KEYED NOTES	
T-1	EXISTING FLOOR BOX PATHWAY FROM PRIOR PROJECT IS SHOWN FOR REFERENCE AND SHALL BE REUSED. CONTRACTOR SHALL FIELD VERIFY EXISTING 2" CONDUIT PATHWAY FROM FLOOR BOX ROUTED DIRECTLY TO THE NEAREST EAST WALL AND CONTINUING TO ACCESSIBLE CEILING SPACE. PROTECT EXISTING PATHWAY DURING CONSTRUCTION AND REUSE FOR NEW CABLING.
T-3	AT EXISTING WALL, OMIT CONDUIT WITHIN THE WALL AND FISH ROOM SCHEDULER CABLING CONCEALED TO THE OPEN CEILING SPACE ADJACENT TO THE WALL. PROVIDE CONDUIT FROM THE WALL CABLE EXIT POINT TO THE ACCESSIBLE CEILING SPACE. PROVIDE FLUSH-MOUNTED OUTLET BOX AS SCHEDULED. PATCH AND REPAIR EXISTING WALL FINISHES DISTURBED BY THE WORK TO MATCH ADJACENT SURFACES. SURFACE-MOUNTED CABLING OR RACEWAY IS NOT PERMITTED UNLESS APPROVED.
T-4	EXISTING TELECOMMUNICATIONS CABLING TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.

STRUCTURED CABLING DEVICE KEY	
INFORMATION OUTLET	
#/X #/X	X - INDICATES INTENDED NETWORK EQUIPMENT SERVED BY DATA JACK. # - INDICATES CABLE AND JACK QUANTITY. OMISSION OF THIS LABEL INDICATES THAT THE QUANTITY IS ONE.
EQUIPMENT ABBREVIATIONS	
AP	- WIRELESS ACCESS POINT
CAM	- CAMERA
EP	- EMERGENCY COMMUNICATION DEVICE
ERRCS	- EMERGENCY RESPONDER RADIO COMM SYSTEM
PR	- PRINTER
RS	- ROOM SCHEDULER
FACP	- FIRE ALARM CONTROL PANEL
PJ	- PROJECTOR

NEW WORK KEY	
	EXISTING
	NEW / REVISED
	EXISTING EQUIPMENT
	NEW / REVISED EQUIPMENT

KEY PLAN



1 T111.A TECHNOLOGY PLAN - LEVEL 1 - Area A (Southwest)
1/8" = 1'-0"

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Technology Plan - Level 1 - Area A

DATE
07.23.2026
DRAWING NUMBER
T111.A
BID SET
PROJECT NUMBER
25030



1 T111.B TECHNOLOGY PLAN - LEVEL 1 - Area B (Northwest)
1/8" = 1'-0"

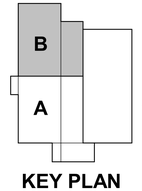
N

KEYED NOTES

STRUCTURED CABLING DEVICE KEY	
INFORMATION OUTLET	
#/X	X - INDICATES INTENDED NETWORK EQUIPMENT SERVED BY DATA JACK.
#/X	# - INDICATES CABLE AND JACK QUANTITY. OMISSION OF THIS LABEL INDICATES THAT THE QUANTITY IS ONE.

EQUIPMENT ABBREVIATIONS	
AP	- WIRELESS ACCESS POINT
CAM	- CAMERA
EP	- EMERGENCY COMMUNICATION DEVICE
ERRCS	- EMERGENCY RESPONDER RADIO COMM SYSTEM
PR	- PRINTER
RS	- ROOM SCHEDULER
FACP	- FIRE ALARM CONTROL PANEL
PJ	- PROJECTOR

NEW WORK KEY
- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT



KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

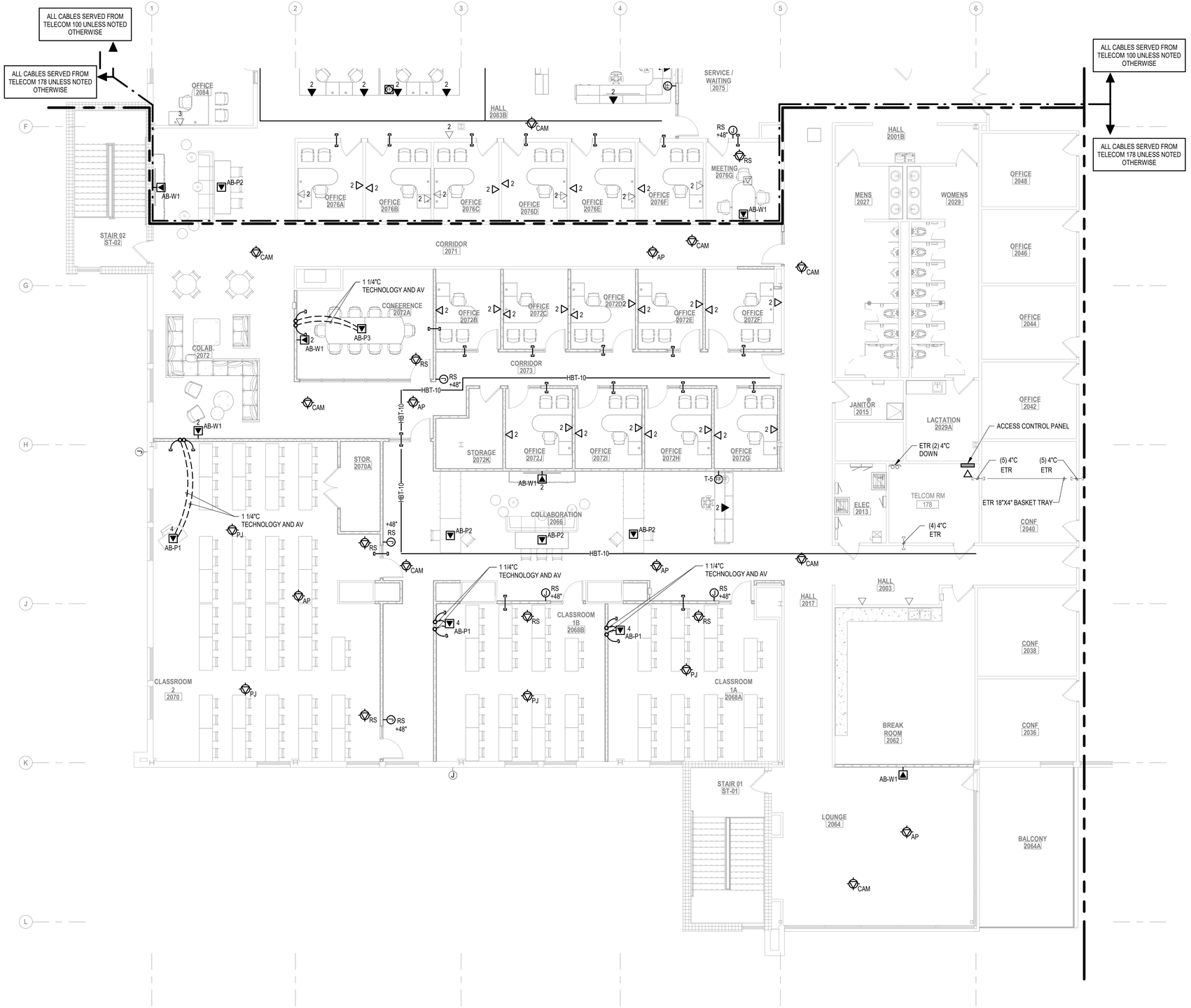
REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Technology Plan - Level 1 - Area B

DATE
07.23.2026
DRAWING NUMBER
T111.B
PROJECT NUMBER
25030

BID SET



1 T112.A
TECHNOLOGY PLAN - LEVEL 2 - Area A (Southwest)
1/8" = 1'-0"

KEYED NOTES	
T-5	ROUTE CABLE THROUGH THE FURNITURE FEED TO REACH THE DATA DROPS AT THE DESK. COORDINATE THE FINAL CONNECTIONS WITH THE FURNITURE INSTALLATION.

STRUCTURED CABLING DEVICE KEY	
INFORMATION OUTLET	
#X	X - INDICATES INTENDED NETWORK EQUIPMENT SERVED BY DATA JACK.
#X	# - INDICATES CABLE AND JACK QUANTITY. OMISSION OF THIS LABEL INDICATES THAT THE QUANTITY IS ONE.
EQUIPMENT ABBREVIATIONS	
AP	- WIRELESS ACCESS POINT
CAM	- CAMERA
EP	- EMERGENCY COMMUNICATION DEVICE
ERRCS	- EMERGENCY RESPONDER RADIO COMM SYSTEM
PR	- PRINTER
RS	- ROOM SCHEDULER
FACP	- FIRE ALARM CONTROL PANEL
PJ	- PROJECTOR

NEW WORK KEY
EXISTING
NEW / REVISED
EXISTING EQUIPMENT
NEW / REVISED EQUIPMENT

KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

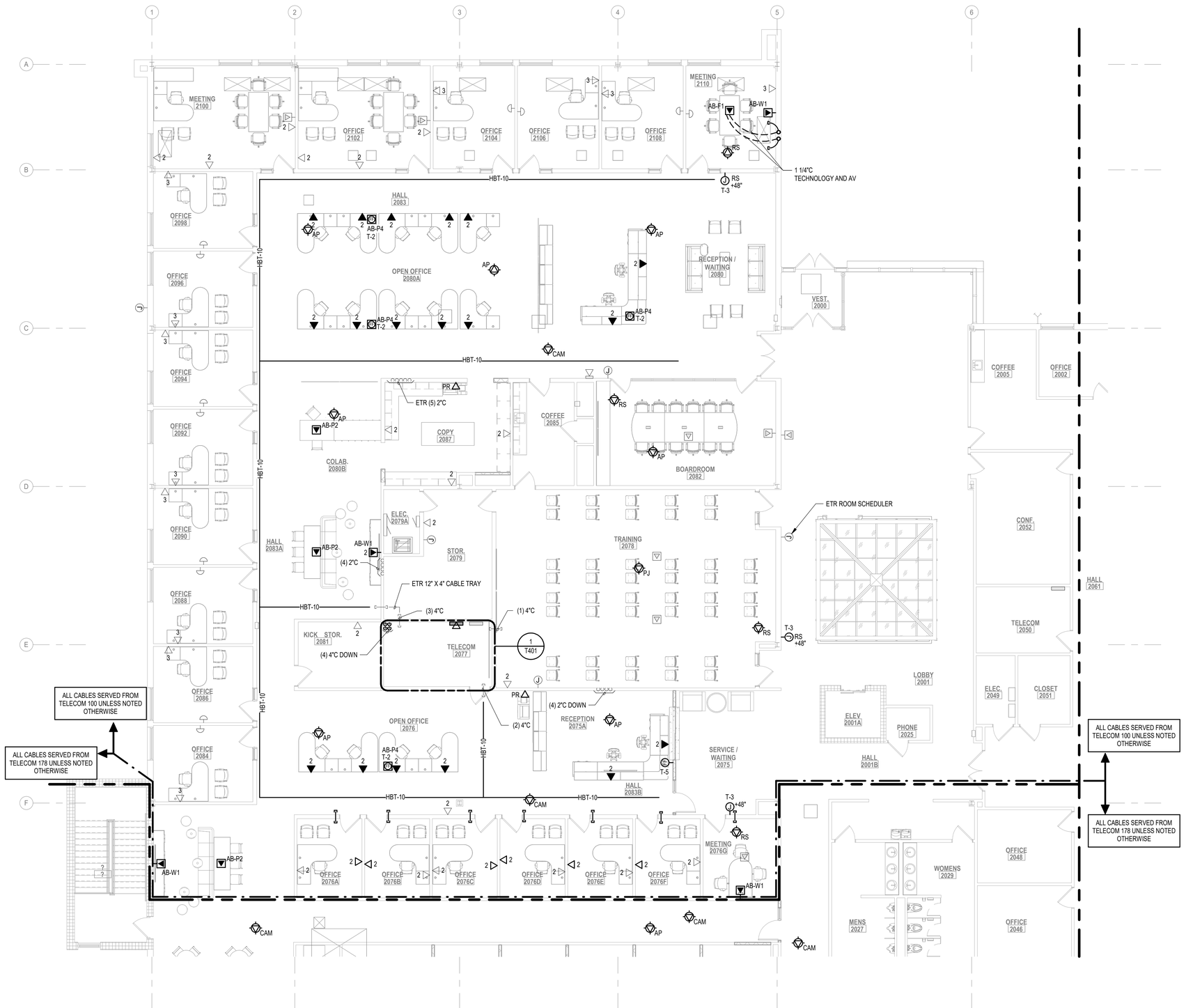
All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Technology Plan - Level 2 - Area A

DATE 07.23.2026
DRAWING NUMBER T112.A
BID SET
PROJECT NUMBER 25030



1 T112.B TECHNOLOGY PLAN - LEVEL 2 - Area B (Northwest)
1/8" = 1'-0"

KEYED NOTES	
T-2	ROUTE FLOORBOX / FURNITURE FEED CABLING DOWN TO PLAN LEVEL 1, THROUGH EXISTING J-HOOK PATHWAY WHERE AVAILABLE. PROVIDE ADDITIONAL J-HOOKS AS REQUIRED TO COMPLETE ROUTE, THEN ROUTE CABLING UP TO TELECOMMUNICATIONS ROOM 100 VIA EXISTING 4" PATHWAY.
T-3	AT EXISTING WALL, OMIT CONDUIT WITHIN THE WALL AND FISH ROOM SCHEDULER CABLING CONCEALED TO THE OPEN CEILING SPACE ADJACENT TO THE WALL. PROVIDE CONDUIT FROM THE WALL CABLE EXIT POINT TO THE ACCESSIBLE CEILING SPACE. PROVIDE FLUSH-MOUNTED OUTLET BOX AS SCHEDULED. PATCH AND REPAIR EXISTING WALL FINISHES DISTURBED BY THE WORK TO MATCH ADJACENT SURFACES. SURFACE-MOUNTED CABLING OR RACEWAY IS NOT PERMITTED UNLESS APPROVED.
T-5	ROUTE CABLE THROUGH THE FURNITURE FEED TO REACH THE DATA DROPS AT THE DESK. COORDINATE THE FINAL CONNECTIONS WITH THE FURNITURE INSTALLATION.

STRUCTURED CABLING DEVICE KEY	
INFORMATION OUTLET	
# X # X	X - INDICATES INTENDED NETWORK EQUIPMENT SERVED BY DATA JACK. # - INDICATES CABLE AND JACK QUANTITY. OMISSION OF THIS LABEL INDICATES THAT THE QUANTITY IS ONE.
EQUIPMENT ABBREVIATIONS	
AP	- WIRELESS ACCESS POINT
CAM	- CAMERA
EP	- EMERGENCY COMMUNICATION DEVICE
ERRCS	- EMERGENCY RESPONDER RADIO COMM SYSTEM
PR	- PRINTER
RS	- ROOM SCHEDULER
FACP	- FIRE ALARM CONTROL PANEL
PJ	- PROJECTOR

NEW WORK KEY	
	EXISTING
	NEW / REVISED
	EXISTING EQUIPMENT
	NEW / REVISED EQUIPMENT

KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.062.0384

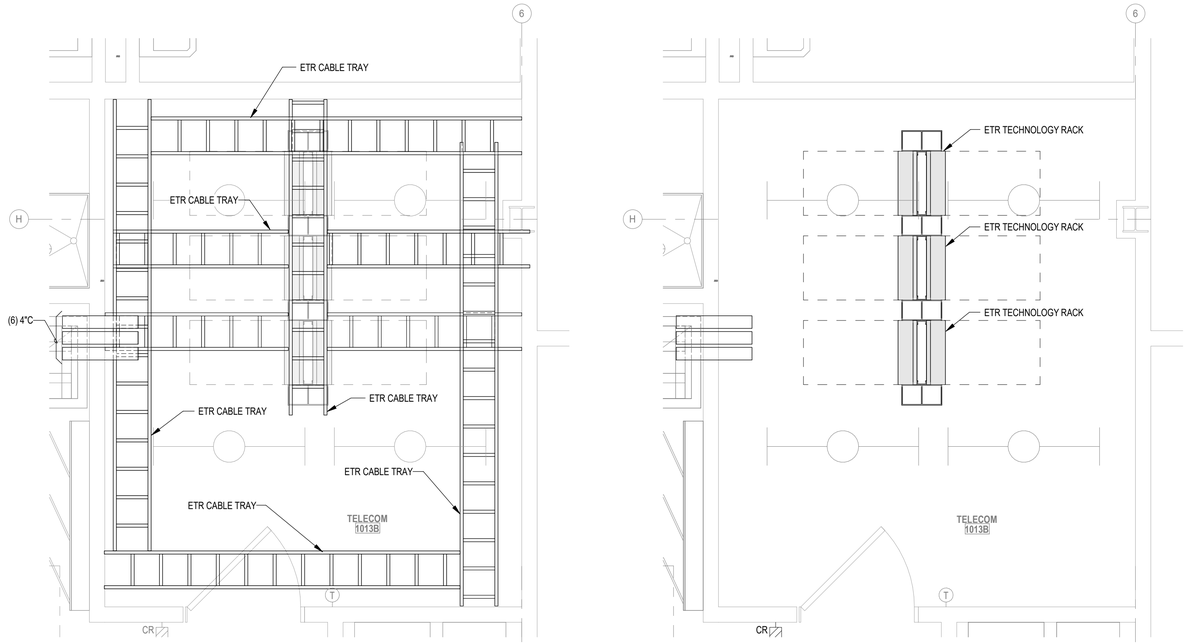
All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Technology Plan - Level 2 - Area B

DATE 07.23.2026
DRAWING NUMBER T112.B
BID SET
PROJECT NUMBER 25030



1
T400

ENLARGED TELECOM 063 TECHNOLOGY PLAN - LEVEL 1
1/2" = 1'-0"

STRUCTURED CABLING DEVICE KEY	
INFORMATION OUTLET	
# X	X - INDICATES INTENDED NETWORK EQUIPMENT SERVED BY DATA JACK.
# X	# - INDICATES CABLE AND JACK QUANTITY. OMISSION OF THIS LABEL INDICATES THAT THE QUANTITY IS ONE.

EQUIPMENT ABBREVIATIONS	
AP	- WIRELESS ACCESS POINT
CAM	- CAMERA
EP	- EMERGENCY COMMUNICATION DEVICE
ERRCS	- EMERGENCY RESPONDER RADIO COMM SYSTEM
PR	- PRINTER
RS	- ROOM SCHEDULER
FACP	- FIRE ALARM CONTROL PANEL
PJ	- PROJECTOR

NEW WORK KEY	
	EXISTING
	NEW / REVISED
	EXISTING EQUIPMENT
	NEW / REVISED EQUIPMENT

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

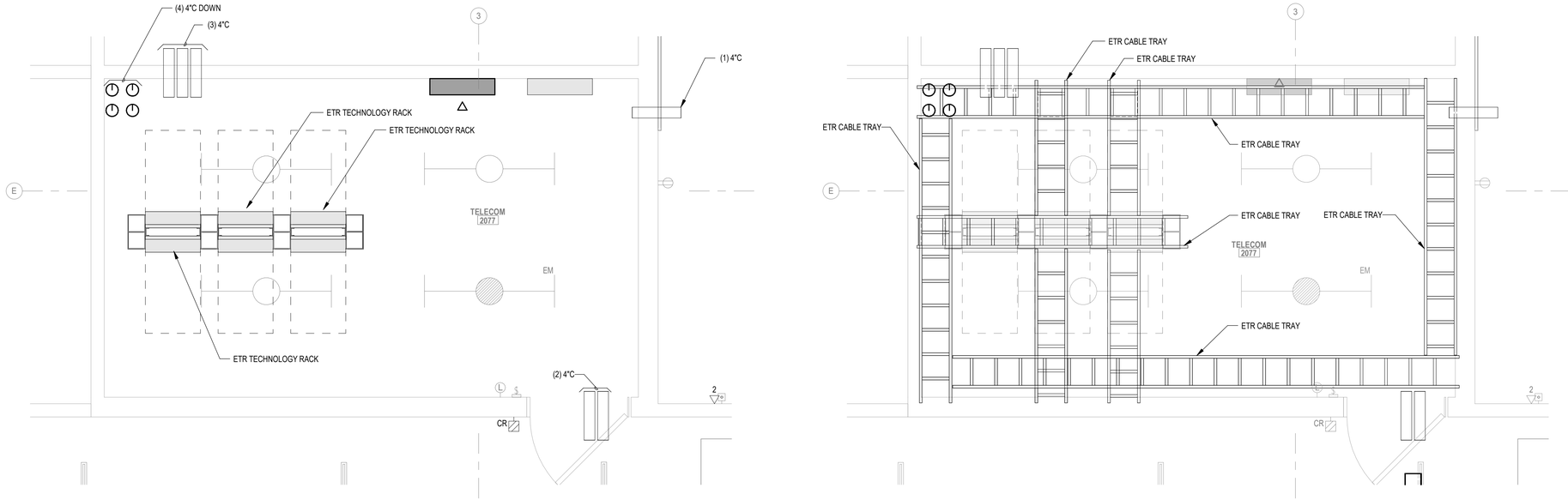
Technology Enlarged Plans

DATE
07.23.2026

DRAWING NUMBER
T400

BID SET

PROJECT NUMBER
25030



1
T401

ENLARGED TELECOM 100 TECHNOLOGY PLAN
1/2" = 1'-0"

STRUCTURED CABLING DEVICE KEY	
INFORMATION OUTLET	
#/X #/X	X - INDICATES INTENDED NETWORK EQUIPMENT SERVED BY DATA JACK. # - INDICATES CABLE AND JACK QUANTITY. OMISSION OF THIS LABEL INDICATES THAT THE QUANTITY IS ONE.

EQUIPMENT ABBREVIATIONS	
AP	- WIRELESS ACCESS POINT
CAM	- CAMERA
EP	- EMERGENCY COMMUNICATION DEVICE
ERRCS	- EMERGENCY RESPONDER RADIO COMM SYSTEM
PR	- PRINTER
RS	- ROOM SCHEDULER
FACP	- FIRE ALARM CONTROL PANEL
PJ	- PROJECTOR

NEW WORK KEY	
	EXISTING
	NEW / REVISED
	EXISTING EQUIPMENT
	NEW / REVISED EQUIPMENT

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

Technology Enlarged Plans

DATE
07.23.2026

DRAWING NUMBER
T401

BID SET

PROJECT NUMBER
25030

COMMUNICATION HORIZONTAL CABLING SCHEDULE

KEY:
- FIR: FURNISH AND INSTALLATION RESPONSIBILITY
- CFCI: CONTRACTOR FURNISHED - CONTRACTOR INSTALLED
- OFCI: OWNER FURNISHED - CONTRACTOR INSTALLED
- CFOI: CONTRACTOR FURNISHED - OWNER INSTALLED
- OFOI: OWNER FURNISHED - OWNER INSTALLED

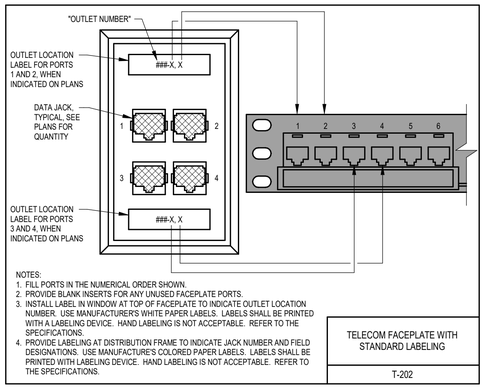
GENERAL NOTES:
1. FURNISH ONE (1) 10'-0" PATCH CABLE FOR EACH COMMUNICATIONS OUTLET AND TURN OVER TO KIRKWOOD TELECOM SERVICES FOR OWNER WORKSTATION CONNECTIONS.
2. FURNISH ONE (1) 7'-0" PATCH CABLE FOR EACH TELECOMMUNICATIONS DATA DROP AND TURN OVER TO KIRKWOOD TELECOM SERVICES FOR OWNER PERFORMED HEADEND CROSS-CONNECTS.

NOTES:
1. ROUGH-IN ONLY. PROVIDE 5" SQUARE BOX WITH SINGLE-GANG MUD RING CENTERED AT 48" AFF. PROVIDE 1-1/4" CONDUIT TO ACCESSIBLE CEILING UNLESS NOTED OTHERWISE.
2. EXISTING TECHNOLOGY EQUIPMENT AND ASSOCIATED HARDWARE SHALL REMAIN. REUSE EXISTING COMPONENTS FOR NEW WORK AND PROVIDE ADDITIONS OR EXPANSION AS REQUIRED TO SUPPORT A COMPLETE SYSTEM.

PLAN MARKS	DESCRIPTION	FIR	PART NO.	REMARKS	NOTES
D2	CABLE, DATA BRANCH, 6A, PLENUM	CFCI	REFER TO SPEC		
PC	PATCH CABLE, CAT6A, BLUE, VARIOUS LENGTHS	CFCI	REFER TO SPEC		

PLAN MARKS	DESCRIPTION	FIR	PART NO.	REMARKS	NOTES
AP	WIRELESS ACCESS POINT	OFOI			
HBT-10	HORIZONTAL BASKET TRAY, 10"H X 4"W	CFCI	REFER TO SPEC		
HCM-2	HORIZONTAL CABLE MANAGER, 2 RU	OFOI	REFER TO SPEC		
PP-2	PATCH PANEL, ANGLED, 48-PORT, 2U	CFCI	REFER TO SPEC		
RS	ROOM SCHEDULER ROUGH-IN	CFCI		ROUGH-IN ONLY.	1

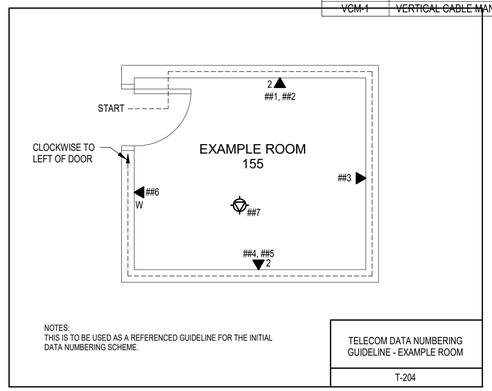
PLAN MARKS	DESCRIPTION	FIR	PART NO.	REMARKS	NOTES
PDU	POWER DISTRIBUTION UNIT, 1 RU	OFOI			2
DR-7	DATA RACK, 2-POST	OFOI			2
RGB	RACK GROUNDING BAR, 1 RU	OFOI			2
~~VCM-1~~	~~VERTICAL CABLE MANAGER, 10"W~~	OFOI			2



NOTES:
1. FILL PORTS IN THE NUMERICAL ORDER SHOWN.
2. PROVIDE BLANK INSERTS FOR ANY UNUSED FACEPLATE PORTS.
3. INSTALL LABEL IN WINDOW AT TOP OF FACEPLATE TO INDICATE OUTLET LOCATION NUMBER. USE MANUFACTURER'S WHITE PAPER LABELS. LABELS SHALL BE PRINTED WITH A LABELING DEVICE. HAND LABELING IS NOT ACCEPTABLE. REFER TO SPECIFICATIONS.
4. PROVIDE LABELING AT DISTRIBUTION FRAME TO INDICATE JACK NUMBER AND FIELD DESIGNATIONS. USE MANUFACTURE'S COLORED PAPER LABELS. LABELS SHALL BE PRINTED WITH LABELING DEVICE. HAND LABELING IS NOT ACCEPTABLE. REFER TO THE SPECIFICATIONS.

TELECOM FACEPLATE WITH STANDARD LABELING

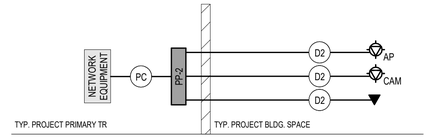
T-202



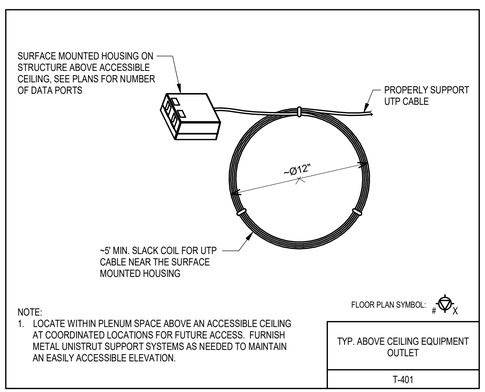
NOTES:
THIS IS TO BE USED AS A REFERENCED GUIDELINE FOR THE INITIAL DATA NUMBERING SCHEME.

TELECOM DATA NUMBERING GUIDELINE - EXAMPLE ROOM

T-204



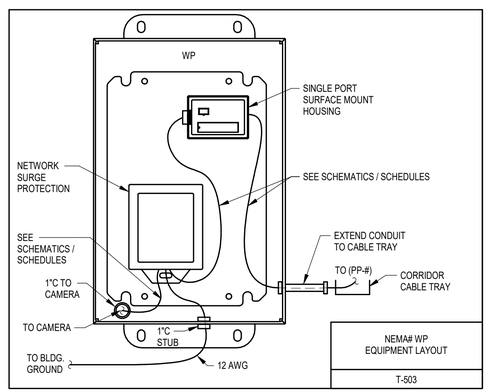
1 / T500 T-201 - STRUCTURED CABLING SCHEMATIC DETAIL
NOT TO SCALE



NOTE:
1. LOCATE WITHIN PLENUM SPACE ABOVE AN ACCESSIBLE CEILING AT COORDINATED LOCATIONS FOR FUTURE ACCESS. FURNISH METAL UNISTRUT SUPPORT SYSTEMS AS NEEDED TO MAINTAIN AN EASILY ACCESSIBLE ELEVATION.

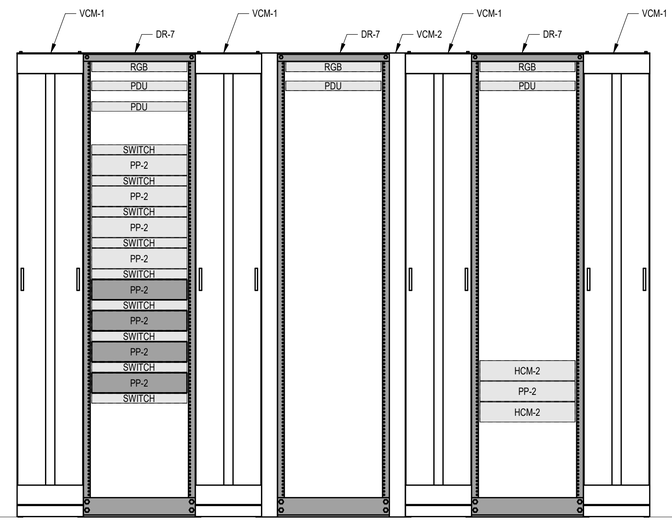
TYP. ABOVE CEILING EQUIPMENT OUTLET

T-401



NEMA# WP EQUIPMENT LAYOUT

T-503



2 / T500 TYPICAL TELECOM ROOM RACK ELEVATION
NOT TO SCALE

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Technology Schedules and Details

DATE
07.23.2026

DRAWING NUMBER
T500

BID SET

PROJECT NUMBER
25030

SECURITY ABBREVIATION

(NOTE: ALL ABBREVIATIONS SHOWN MAY NOT BE REQUIRED FOR THIS PROJECT)

*** ABBREVIATIONS ***

ACS	ACCESS CONTROL SYSTEM
ACS DR	ACCESS DOOR
ACS FLR	ACCESS FLOOR
ACS PNL	ACCESS PANEL
ALM	ALARM
BA	BURGLAR ALARM
BUZ	BUZZER
CAM	CAMERA
CCTV	CLOSED CIRCUIT TELEVISION
CR	CARD READER
CRKP	CARD READER / KEYPAD COMBO
CRM	CARD READER MULLION
D	DURESS
DB	DOOR BELL
DO	DOOR OPERATOR ACTUATOR
DPH	DOOR PHONE
DR	DOOR RELEASE
DPS	DOOR POSITION SWITCH
EL	ELECTRIFIED LATCH
EM	EMERGENCY COMMUNICATION DEVICE
ERRCS	EMERGENCY RESPONDER RADIO COMMUNICATION SYSTEM
GBRK	GLASS BREAK SENSOR
KP	KEYPAD
LOB	LOCK OUT BUTTON
LS	LOCAL AUDIBLE ALARM SOUNDER
LX	LATCH BOLT MONITOR
ML	ELECTROMAGNETIC LOCK W/ INTERGRATED RX
MS	MOTION SENSOR
PS	POWER SUPPLY
PT	POWER TRANSFER
PTE	PUSH TO EXIT
PVDS	PRIMARY VIDEO DOOR STATION
REX	REQUEST TO EXIT
SVDS	SECONDARY VIDEO DOOR STATION
SNSR	SENSOR

SECURITY SYMBOLS

(NOTE: ALL SYMBOLS SHOWN MAY NOT BE REQUIRED FOR THIS PROJECT)
(NOTE: +##" INDICATES DIMENSION HEIGHT TO CENTER OF DEVICE ABOVE FINISHED FLOOR. REFER TO SCHEDULE FOR TYPICAL HEIGHTS, UNLESS NOTED OTHERWISE ON SECURITY OR ARCHITECTURAL PLANS. CONTRACTOR TO COORDINATE DEVICE HEIGHT DISCREPANCIES BETWEEN SECURITY AND ARCHITECTURAL PLANS.)

*** SECURITY DEVICES ***

SECURITY DEVICE
X - INDICATES TYPE, REFER TO SECURITY SCHEDULE

SECURITY DEVICE
X - INDICATES TYPE, REFER TO SECURITY SCHEDULE

SECURITY DEVICE - WALL MOUNTED
X - INDICATES TYPE, REFER TO SECURITY SCHEDULE

ACCESS CONTROL DOOR
- INDICATES PLAN MARK, SEE ACCESS CONTROL DOOR SCHEDULE
XXX - INDICATES DOOR OPERATION TYPE, SEE ACCESS CONTROL DOOR DETAIL

EMERGENCY COMMUNICATION DEVICE
X - INDICATES PLAN MARK OF EMERGENCY COMMUNICATION DEVICE, SEE EMERGENCY COMMUNICATION SCHEDULE

EMERGENCY COMMUNICATION DEVICE - WALL MOUNTED
X - INDICATES PLAN MARK OF EMERGENCY COMMUNICATION DEVICE, SEE EMERGENCY COMMUNICATION SCHEDULE

CAMERA - CEILING MOUNTED
◂ - INDICATES LENS AIMED OUT
▪ - INDICATES LENS AIMED DOWN
X - INDICATES PLAN MARK, SEE VIDEO SURVEILLANCE SCHEDULE
⌒ - INDICATES PTZ (PAN, TILT, ZOOM) TYPE

CAMERA - WALL MOUNTED
◂ - INDICATES LENS AIMED OUT
▪ - INDICATES LENS AIMED DOWN
X - INDICATES PLAN MARK, SEE VIDEO SURVEILLANCE SCHEDULE
⌒ - INDICATES PTZ (PAN, TILT, ZOOM) TYPE

*** TYPICAL EQUIPMENT ***

TECHNOLOGY RACK - 2 POST
CLEARANCE BORDER

TECHNOLOGY RACK - 4 POST
CLEARANCE BORDER

TECHNOLOGY RACK - SLIDE OUT

TECHNOLOGY RACK - SWING OUT
CLEARANCE BORDER

SPECIAL CABINET AS NOTED - SURFACE MOUNTED

SPECIAL CABINET AS NOTED - RECESSED MOUNTED

GROUND BAR

*** TYPICAL RACEWAYS ***

HBT-# WIRE BASKET
HBT-# - # INDICATES WIRE BASKET TRAY WIDTH. REFER TO THE SCHEDULE FOR ADDITIONAL DETAILS

HLT-# LADDER RACK
HLT-# - # INDICATES LADDER TRAY WIDTH. REFER TO THE SCHEDULE FOR ADDITIONAL DETAILS

W/H SPLINE TRAY
W - INDICATES WIDTH IN INCHES
H - INDICATES HEIGHT IN INCHES

CABLE J-HOOKS

SPLICE CONNECTION FROM EXISTING TO NEW

CONDUIT STUB

CONDUIT CONTINUATION

CONDUIT TURNING UP

CONDUIT TURNING DOWN

PULL BOX

J JUNCTION BOX - IN FLOOR BOX OR CEILING

J JUNCTION BOX - WALL MOUNTED

HH HANDHOLE BOX - IN GROUND

FF FURNITURE FEED

FF FURNITURE FEED - WALL MOUNTED

*** TYPICAL DEVICES ***

ANY WIRING DEVICE WITH THIS SYMBOL INDICATES SURFACE MOUNTED OUTLET BOX

ANY WIRING DEVICE WITH THIS SYMBOL INDICATES WIRELESS NETWORK CAPABILITY

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel

Security Notes and Symbols

DATE
07.23.2026

DRAWING NUMBER
TY000

BID SET

PROJECT NUMBER
25030



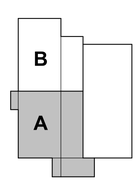
1 TY111.A SECURITY PLAN - LEVEL 1 - Area A (Southwest)
1/8" = 1'-0"

KEYED NOTES

SECURITY DEVICE KEY	
SECURITY DEVICE	
X	INDICATES DEVICE CLASSIFICATION, REFER TO SECURITY SCHEDULES.

DEVICE CLASSIFICATIONS	
CPD	- CONTROL PANEL DEVICE
CR	- CARD READER
CRKP	- CARD READER W/ KEY PAD
CRM	- CARD READER W/ MULLION MOUNT
D	- DURESS BUTTON
DB	- DOOR BELL
GBRK	- GLASS BREAK SENSOR
KP	- KEYPAD
KB	- KNOX BOX
LOB	- LOCK OUT BUTTON
MS	- MOTION SENSOR
PTU	- PUSH TO UNLOCK
BVI	- BASE VIDEO INTERCOM
RVI	- REMOTE VIDEO INTERCOM
RXB	- REQUEST TO EXIT BUTTON
VS	- VAPE SENSOR

NEW WORK KEY
EXISTING
NEW / REVISED
EXISTING EQUIPMENT
NEW / REVISED EQUIPMENT



KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

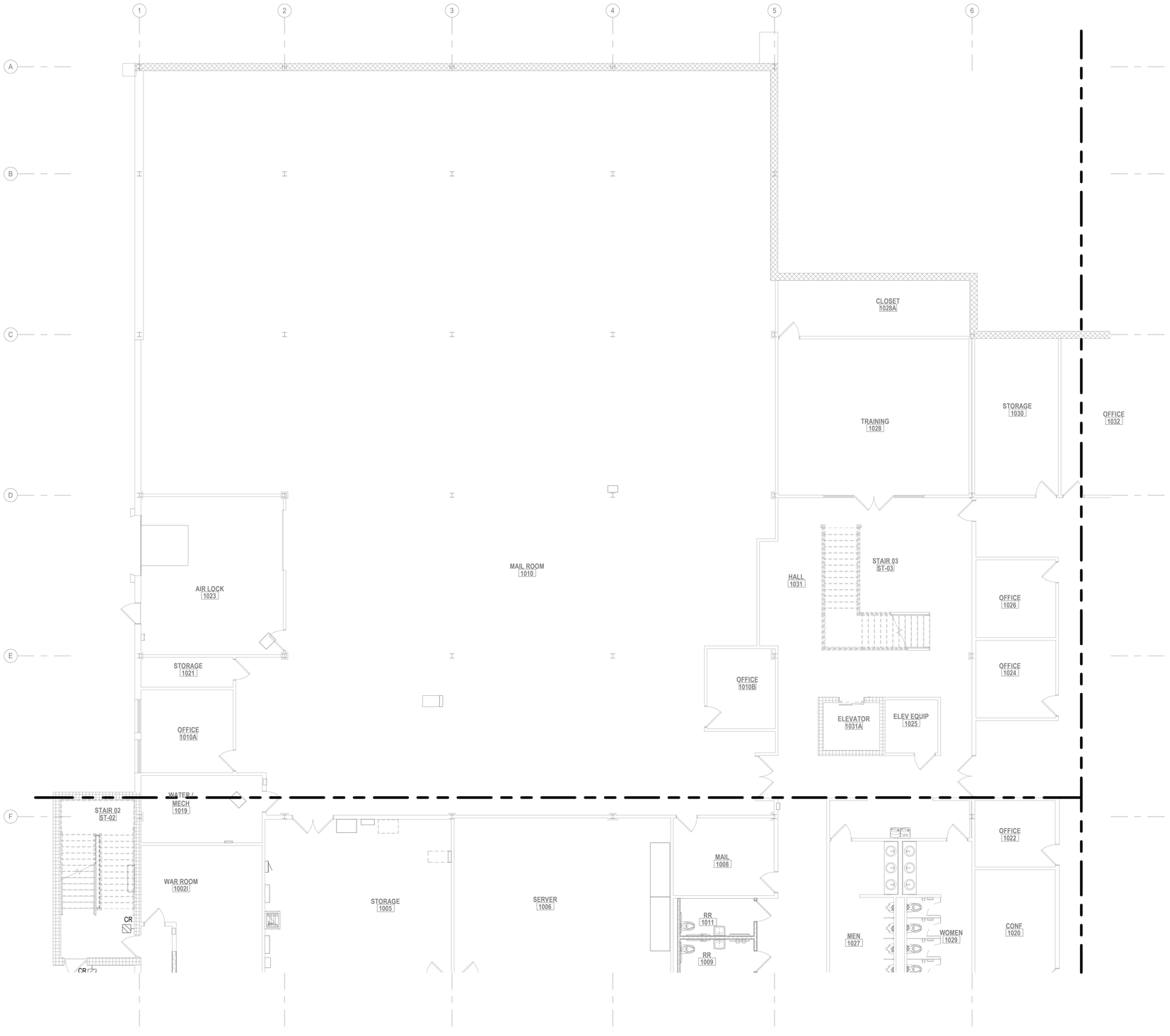
REVISION ISSUE DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Security Plan - Level 1 - Area A

DATE 07.23.2026
DRAWING NUMBER TY111.A
PROJECT NUMBER 25030

BID SET



1 TY111.B SECURITY PLAN - LEVEL 1 - Area B (Northwest)
1/8" = 1'-0"

N

KEYED NOTES

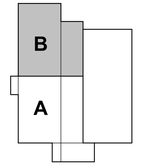
SECURITY DEVICE KEY

SECURITY DEVICE	
X X X	X - INDICATES DEVICE CLASSIFICATION, REFER TO SECURITY SCHEDULES.

DEVICE CLASSIFICATIONS	
CPD	- CONTROL PANEL DEVICE
CR	- CARD READER
CRKP	- CARD READER W/ KEY PAD
CRM	- CARD READER W/ MULLION MOUNT
D	- DURESS BUTTON
DB	- DOOR BELL
GBRK	- GLASS BREAK SENSOR
KP	- KEYPAD
KB	- KNOX BOX
LOB	- LOCK OUT BUTTON
MS	- MOTION SENSOR
PTU	- PUSH TO UNLOCK
BVI	- BASE VIDEO INTERCOM
RVI	- REMOTE VIDEO INTERCOM
RXB	- REQUEST TO EXIT BUTTON
VS	- VAPE SENSOR

NEW WORK KEY

- EXISTING
- NEW / REVISED
- EXISTING EQUIPMENT
- NEW / REVISED EQUIPMENT



KEY PLAN

BID SET

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

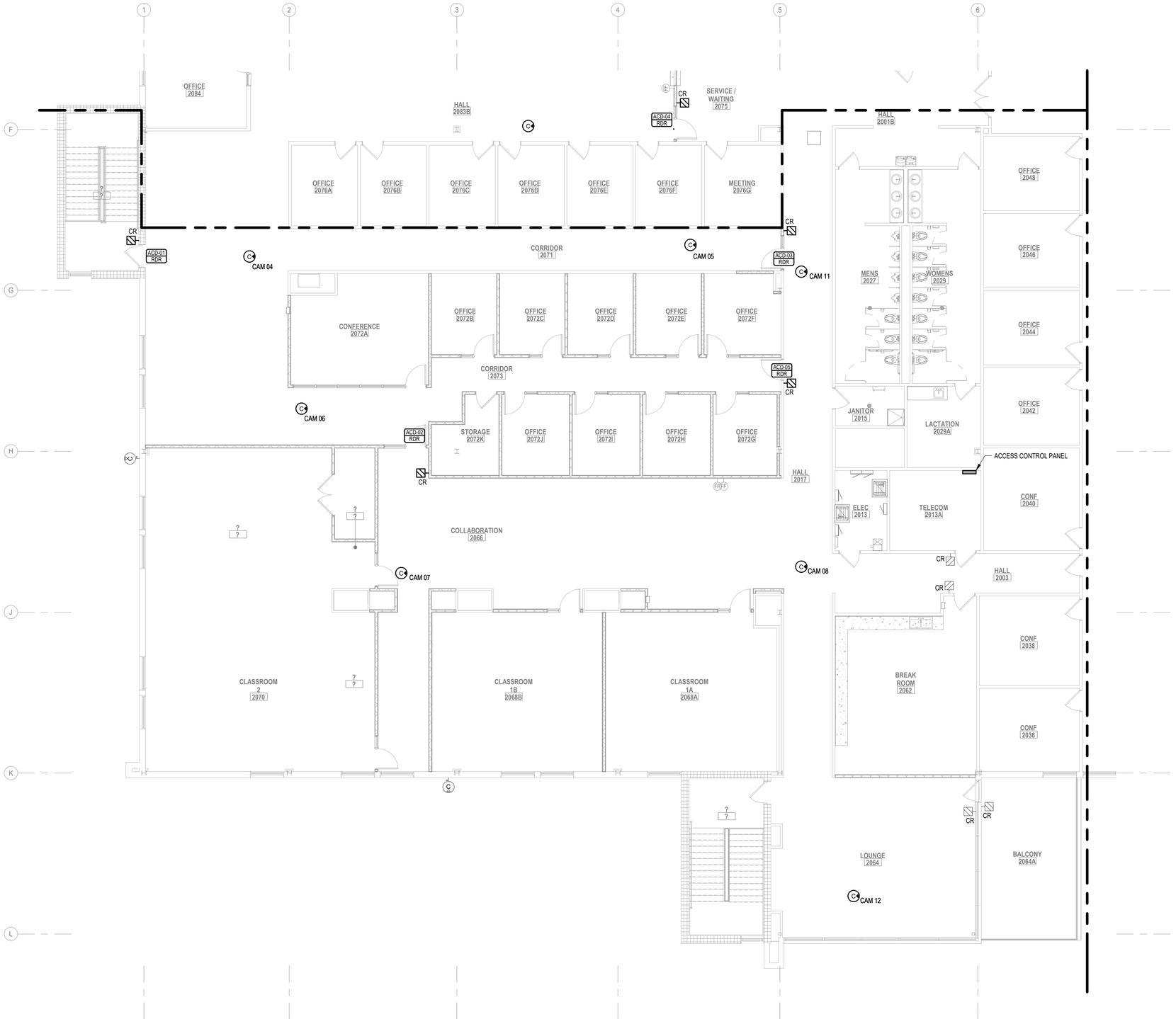
Kirkwood East Hall - Remodel

Security Plan - Level 1 - Area B

DATE
07.23.2026

DRAWING NUMBER
TY111.B

PROJECT NUMBER
25030

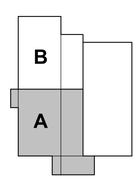


1 TY112.A SECURITY PLAN - LEVEL 2 - Area A (Southwest)
1/8" = 1'-0"

SECURITY DEVICE KEY	
SECURITY DEVICE	
X	X - INDICATES DEVICE CLASSIFICATION, REFER TO SECURITY SCHEDULES.

DEVICE CLASSIFICATIONS	
CPD	- CONTROL PANEL DEVICE
CR	- CARD READER
CRKP	- CARD READER W/ KEY PAD
CRM	- CARD READER W/ MULLION MOUNT
D	- DURESS BUTTON
DB	- DOOR BELL
GBRK	- GLASS BREAK SENSOR
KP	- KEYPAD
KB	- KNOX BOX
LOB	- LOCK OUT BUTTON
MS	- MOTION SENSOR
PTU	- PUSH TO UNLOCK
BVI	- BASE VIDEO INTERCOM
RVI	- REMOTE VIDEO INTERCOM
RXB	- REQUEST TO EXIT BUTTON
VS	- VAPE SENSOR

NEW WORK KEY
EXISTING
NEW / REVISED
EXISTING EQUIPMENT
NEW / REVISED EQUIPMENT



KEY PLAN

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Security Plan - Level 2 - Area A

DATE
07.23.2026
DRAWING NUMBER
TY112.A
BID SET
PROJECT NUMBER
25030

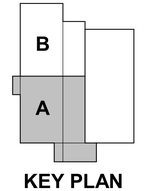


KEYED NOTES

SECURITY DEVICE KEY	
SECURITY DEVICE	
X	INDICATES DEVICE CLASSIFICATION, REFER TO SECURITY SCHEDULES.

DEVICE CLASSIFICATIONS	
CPD	- CONTROL PANEL DEVICE
CR	- CARD READER
CRKP	- CARD READER W/ KEY PAD
CRM	- CARD READER W/ MULLION MOUNT
D	- DURESS BUTTON
DB	- DOOR BELL
GBRK	- GLASS BREAK SENSOR
KP	- KEYPAD
KB	- KNOX BOX
LOB	- LOCK OUT BUTTON
MS	- MOTION SENSOR
PTU	- PUSH TO UNLOCK
RVI	- BASE VIDEO INTERCOM
RVI	- REMOTE VIDEO INTERCOM
RXB	- REQUEST TO EXIT BUTTON
VS	- VAPE SENSOR

NEW WORK KEY
EXISTING
NEW / REVISED
EXISTING EQUIPMENT
NEW / REVISED EQUIPMENT



KEY PLAN

1 / TY112.B — SECURITY PLAN - LEVEL 2 - Area B (Northwest)
1/8" = 1'-0"

N

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

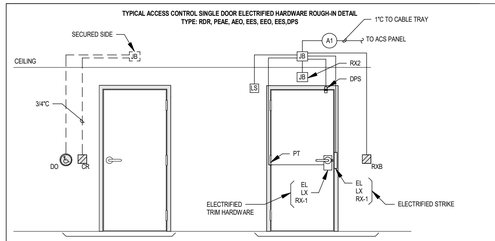
Kirkwood East Hall - Remodel

Security Plan - Level 2 - Area B

DATE
07.23.2026
DRAWING NUMBER
TY112.B
PROJECT NUMBER
25030

BID SET

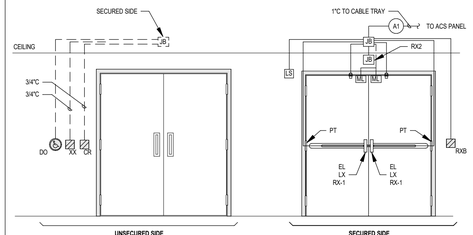
TYPICAL ACCESS CONTROL SINGLE DOOR ELECTRIFIED HARDWARE ROUGH-IN DETAIL
TYPE: RDR, PEAE, AEO, EES, EEO, EES,DPS



NOTES:
1. ELECTRIFIED TRIM HARDWARE OR AN ELECTRIFIED STRIKE IS TYPICAL, NOT BOTH AT A SINGLE OPENING. PLEASE REFER TO THE DIVISION 08 DOOR HARDWARE SET FOR THE APPLICABLE HARDWARE FOR THIS PROJECT OR A SPECIFIC DOOR.
2. AN RX-1 OR AN RX-2 IS TYPICAL, NOT BOTH AT A SINGLE OPENING. REFER TO THE DIVISION 08 DOOR HARDWARE SET FOR THE APPLICABLE HARDWARE FOR THIS PROJECT OR A SPECIFIC DOOR.
3. THE QUANTITY OF ACCESS CONTROL, SECURITY, AND DOOR OPERATOR WILL VARY PER OPENING. PLEASE SEE: A, E, T, AND TY SHEETS ALONG WITH DIVISION 08, 26, 27, AND 28 SPECIFICATIONS TO REVIEW THE REQUIREMENTS FOR THIS PROJECT OR A SPECIFIC OPENING.
4. REQUEST TO EXIT BUTTONS SHALL BE INSTALLED IN COMPLIANCE WITH LOCAL CODES AND PER THE CONSTRUCTION DRAWINGS FOR ELECTRONICALLY CONTROLLED FIRE EXITS TO FACILITATE SAFE EGRESS DURING EMERGENCIES. REFER TO THE CONSTRUCTION DRAWINGS FOR OTHER LOCATIONS WHERE REQUEST-TO-EXIT BUTTONS ARE TO BE INSTALLED FOR OWNER CONTROL AT SPECIFIC OPENINGS.
5. DIAGRAM IS INTENDED FOR GENERAL REPRESENTATION ONLY AND ILLUSTRATES TYPICAL DOOR CONDITIONS. IT DOES NOT REFLECT ACTUAL HARDWARE SETS, CONFIGURATIONS, OR DEVICE TYPES REQUIRED FOR THIS PROJECT. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DOOR HARDWARE SCHEDULE, ELECTRIFIED HARDWARE SETS, AND SPECIFICATIONS FOR ALL PROJECT-SPECIFIC REQUIREMENTS.

UNSECURED SIDE **SECURED SIDE**

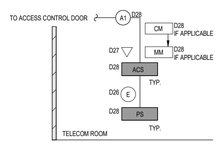
TYPICAL ACCESS CONTROL DOUBLE DOOR ELECTRIFIED HARDWARE ROUGH-IN DETAIL
TYPE: RDR, PEAE, AEO, EES, EEO, EES,DPS



NOTES:
1. AN RX-1 OR AN RX-2 IS TYPICAL, NOT BOTH AT A SINGLE OPENING. REFER TO THE DIVISION 08 DOOR HARDWARE SET FOR THE APPLICABLE HARDWARE FOR THIS PROJECT OR A SPECIFIC DOOR.
2. THE QUANTITY OF ACCESS CONTROL, SECURITY, AND DOOR OPERATOR WILL VARY PER OPENING. PLEASE SEE: A, E, T, AND TY SHEETS ALONG WITH DIVISION 08, 26, 27, AND 28 SPECIFICATIONS TO REVIEW THE REQUIREMENTS FOR THIS PROJECT OR A SPECIFIC OPENING.
3. INTEGRATE ALL ML'S WITH FACP TO RELEASE UPON FIRE ALARM ACTIVATION. PROVIDE PUSH TO EXIT BUTTONS FOR ML'S LOCATED ALONG BUILDING PATH OF EGRESS.
4. REQUEST TO EXIT BUTTONS SHALL BE INSTALLED IN COMPLIANCE WITH LOCAL CODES AND PER THE CONSTRUCTION DRAWINGS FOR ELECTRONICALLY CONTROLLED FIRE EXITS TO FACILITATE SAFE EGRESS DURING EMERGENCIES. REFER TO THE CONSTRUCTION DRAWINGS FOR OTHER LOCATIONS WHERE REQUEST-TO-EXIT BUTTONS ARE TO BE INSTALLED FOR OWNER CONTROL AT SPECIFIC OPENINGS.

UNSECURED SIDE **SECURED SIDE**

ACCESS CONTROL DETAIL -TYP. HEADEND SCHEMATIC DIAGRAM



GENERAL ROUGH-IN AND INSTALLATION NOTES

1. UNLESS OTHERWISE NOTED, ALL CONDUITS ARE 1/2" IN SIZE. THIS REQUIREMENT APPLIES TO BOTH SINGLE AND DOUBLE DOORS.
2. UNLESS OTHERWISE NOTED, ALL EXPOSED OR VISIBLE RACEWAY SHALL BE WIREMOLD AND PAINTED TO MATCH THE ADJACENT SURFACE.
3. NOT ALL DEVICES ARE REQUIRED FOR EACH DOOR. CONTRACTORS SHALL COORDINATE ACCORDING TO THE HARDWARE SPECIFICATIONS, ACCESS CONTROL SCHEDULE, AND DETAILS.
4. THE JUNCTION PULL BOX SHALL BE LOCATED ABOVE THE ACCESSIBLE CEILING AND AS CLOSE TO THE DOOR AS POSSIBLE.
5. ALL CONDUITS AND RACEWAYS SHALL BE ROUTED TO THE JUNCTION PULL BOX.
6. ALL CABLES SHALL BE ROUTED FROM THE JUNCTION PULL BOX AND IN CONDUIT TO THE NEAREST ACCESSIBLE CABLE TRAY, THEN TO THE ACCESS CONTROL PANEL.

ACCESS CONTROL SYSTEM HARDWARE AND EQUIPMENT SCHEDULE

KEY
D28: DIVISION 28 CONTRACTOR — D27 : DIVISION 27 CONTRACTOR
D08: DIVISION 08 CONTRACTOR — CF : CONTRACTOR FURNISHED
D26: DIVISION 26 CONTRACTOR — CI : CONTRACTOR INSTALLED
PS: PER SPEC

GENERAL NOTES
1. CONTRACTORS SHALL REVIEW PROJECT SPECIFICATIONS FOR ADDITIONAL MATERIAL RESPONSIBILITIES OR DIRECTIONS.
2. REFER TO THE SECURITY SYMBOLS LIST FOR ADDITIONAL DETAILS REGARDING PLAN MARKS, WHICH MAY APPEAR ON BOTH THE FLOOR PLAN AND SCHEMATIC DETAILS, THOUGH NOT ALWAYS ON BOTH.
3. ALL ELECTROMAGNETIC LOCKS INSTALLED ON THE PROJECT MUST BE INTEGRATED WITH THE FACP TO RELEASE UPON A FIRE ALARM.
4. ALL DEVICES ARE CONTRACTOR-FURNISHED AND CONTRACTOR-INSTALLED BY THE DIVISION CONTRACTOR INDICATED UNLESS OTHERWISE NOTED.

A1	16 CONDUCTOR, 6/22 AWG S, 4/22AWG, 4/18 AWG, CMP	CFCI	D28
ACS	ACCESS CONTROL SYSTEM HEAD END	CFCI	D28
KP	ACCESS CONTROL KEYPAD	CFCI	D28
CR	STANDARD READER	CFCI	D28
CRKP	READER/KEYPAD COMBO	CFCI	D28
CRM	MULLION READER	CFCI	D28
D	DURESS BUTTON	CFCI	D28
DB	DOOR BELL	CFCI	D28
DP	DOOR PHONE	CFCI	D28
DPS	DOOR POSITION SWITCH	CFCI	D08
DO	DOOR OPERATOR ACTUATOR	CFCI	D08
EL	ELECTRIFIED LATCH	CFCI	D08
JB	JUNCTION PULL BOX	CFCI	D28
LDB	LOCK DOWN BUTTON, LOCKS SPECIFIED DOORS	CFCI	D28
LS	LOCAL AUDIBLE ALARM SOUNDER	CFCI	D28
LX	LATCH BOLT MONITOR	CFCI	D08
ML	ELECTROMAGNET LOCK W/ INTEGRATED RX	CFCI	D08
PS	ACCESS CONTROL SYSTEM POWER SUPPLY	CFCI	D28
PT	POWER TRANSFER	CFCI	D08
PTE	PUSH TO EXIT	CFCI	D28
PVDS	PRIMARY VIDEO DOOR STATIONS	CFCI	D28
REX	REQUEST TO EXIT	CFCI	D08
SVDS	SECONDARY VIDEO DOOR STATION	CFCI	D28

ACCESS CONTROL DOOR OPERATION TYPES

RDR - CARD READER ENTRANCE. EQUIPPED WITH CARD READER WITH ELECTRICALLY UNLOCKING DOOR HARDWARE. SEE D08 DOOR HARDWARE SETS FOR SEQUENCE OF OPERATION AND RELATED HARDWARE.

PEAE - PROGRAMMABLE ENTRANCE. EQUIPPED WITH ELECTRICALLY UNLOCKING DOOR HARDWARE (BUT NO CARD READER). SEE D08 DOOR HARDWARE SETS FOR SEQUENCE OF OPERATION AND RELATED HARDWARE.

AEO - ACCEPTABLE EXIT ONLY. REQUEST TO EXIT FUNCTIONALITY, LATCH BOLT MONITORING, AND DOOR POSITION SWITCH. CANNOT BE ELECTRICALLY UNLOCKED. SEE D08 DOOR HARDWARE SETS FOR SEQUENCE OF OPERATION AND RELATED HARDWARE.

EEO - EMERGENCY EXIT ONLY. DOOR POSITION SWITCH AND LATCH BOLT MONITORING. SEE D08 DOOR HARDWARE SETS FOR SEQUENCE OF OPERATION AND RELATED HARDWARE.

EES - EMERGENCY EXIT ONLY W/SOUNDER. DOOR POSITION SWITCH. LATCH BOLT MONITORING AND A LOCAL AUDIBLE ALARM (SOUNDER) TIED INTO ACCESS CONTROL SYSTEM. SEE D08 DOOR HARDWARE SETS FOR SEQUENCE OF OPERATION AND RELATED HARDWARE.

DPS - DOOR POSITION SWITCH. DOOR POSITION SWITCH ONLY. TYPICALLY USED FOR GARAGE DOORS OR SPECIALTY SITUATIONS. SEE D08 DOOR HARDWARE SETS FOR SEQUENCE OF OPERATION AND RELATED HARDWARE.

DPSS - DOOR SWITCH W/SOUNDER. DOOR POSITION SWITCH AND A LOCAL AUDIBLE ALARM (SOUNDER) TIED INTO ACCESS CONTROL SYSTEM. SEE D08 DOOR HARDWARE SETS FOR SEQUENCE OF OPERATION AND RELATED HARDWARE.

ACCESS CONTROL GENERAL NOTES:

1. ALL DETAILS REPRESENT TYPICAL INSTALLATIONS. NOT EVERY ACCESS CONTROL DOOR SCENARIO ON THE PROJECT MAY BE FULLY REPRESENTED.
2. AN INSTALLATION COORDINATION MEETING BETWEEN THE DIVISION 28 AND DIVISION 8 CONTRACTORS IS REQUIRED.

ELECTRONIC ACCESS CONTROL DETAIL

TY-099

ACCESS CONTROL DOOR SCHEDULE

KEY:
ACD: ACCESS CONTROL DOOR

GENERAL NOTES:
1. CONTRACTOR SHALL CHECK SPECIFICATIONS FOR POSSIBLE FURTHER DETAILS.
2. CONTRACTOR SHALL REFERENCE THE ELECTRONIC ACCESS CONTROL DETAIL FOR FURTHER DETAILS.

NOTES:
1.

PLAN MARK (PREFIX "ACD")	DOOR LOCATION	DOOR #	DOOR TYPE	HEAD END LOCATION	NOTES
01	STAIR B	ST-02	RDR	TELECOM 2013A	
02	CORRIDOR 2073	2066	RDR	TELECOM 2013A	
03	CORRIDOR 2071	2071A	RDR	TELECOM 2013A	
04	RECEPTION 2075A	2075	RDR	TELECOM 2077	
05	CORRIDOR 2073	2073A	RDR	TELECOM 2013A	

VIDEO SURVEILLANCE SCHEDULE

KEY:
VSC: VIDEO SURVEILLANCE CONTRACTOR
TC: TELECOMMUNICATION CONTRACTOR

GENERAL NOTES:
1. CONTRACTOR SHALL CHECK SPECIFICATIONS FOR POSSIBLE FURTHER DETAILS.

NOTES:
1. PROVIDE ALL REQUIRED MOUNTING HARDWARE FOR INSTALLATION OF CAMERA IN ACOUSTICAL CEILING TILE, INCLUDING MANUFACTURER-COMPATIBLE CEILING TILE BRIDGE, SUPPORT BRACKET AND FASTENERS.

PLAN MARK (PREFIX "C")	DESCRIPTION	FURNISHED BY	INSTALLED BY	REMARKS	NOTES
VS-1	VIDEO SURVEILLANCE SYSTEM, VMS AND STORAGE SERVER	VSC	VSC	PER SPEC	
BLANK ROW					
CAM 01	8MP, INDOOR, CEILING MOUNTED	VSC	VSC		
CAM 02	8MP, INDOOR, CEILING MOUNTED	VSC	VSC		
CAM 03	8MP, INDOOR, CEILING MOUNTED	VSC	VSC		
CAM 04	8MP, INDOOR, CEILING MOUNTED	VSC	VSC		
CAM 05	8MP, INDOOR, CEILING MOUNTED	VSC	VSC		
CAM 06	8MP, INDOOR, CEILING MOUNTED	VSC	VSC		
CAM 07	8MP, INDOOR, CEILING MOUNTED	VSC	VSC		
CAM 08	8MP, INDOOR, CEILING MOUNTED	VSC	VSC		
CAM 10	8MP, INDOOR, CEILING MOUNTED	VSC	VSC		
CAM 11	8MP, INDOOR, CEILING MOUNTED	VSC	VSC		
CAM 12	8MP, INDOOR, CEILING MOUNTED	VSC	VSC		

SOLUM LANG
ARCHITECTS
1101 Old Marion Rd NE
Cedar Rapids, Iowa 52402
t: 319.862.0384

All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Solum Lang Architects, LLC as instruments of service shall remain the property of Solum Lang Architects, LLC. Solum Lang Architects, LLC shall retain all common law, statutory and other reserved rights, including copyright thereto.

REVISION
ISSUE
DATE & TITLE

1025 Kirkwood Pkwy SW
Cedar Rapids, IA 52404

Kirkwood East Hall - Remodel
Security Schedules and Details

DATE
07.23.2026

DRAWING NUMBER
TY500

BID SET

PROJECT NUMBER
25030