RPS PROJECT NO. 2134
IFB NO. 21-25

PROJECT

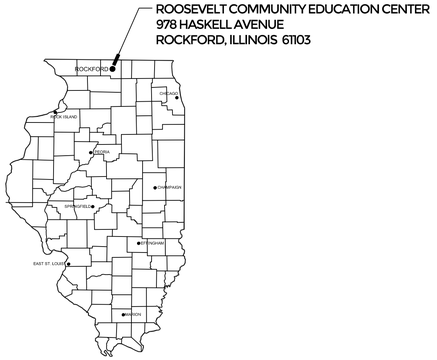
SWITCHGEAR REPLACEMENT WORK AT ROOSEVELT COMMUNITY EDUCATION CENTER

ROOSEVELT COMMUNITY EDUCATION CENTER
978 HASKELL AVENUE,
ROCKFORD, ILLINOIS 61103

OWNER

ROCKFORD PUBLIC SCHOOL DISTRICT #205

501 7TH STREET,
ROCKFORD, ILLINOIS 61104



STATE MAP
SCALE: N.T.S.

ARCHITECT OF RECORD

RICHARD L. JOHNSON ASSOCIATES
4703 Charles Street
Rockford IL 61108
PHONE: 815/398-1231 FAX 815/398-1280
www.rljarch.com
IL. Design Firm No. 187-000524

STATE OF ILLINOIS
SCOTT R. JOHNSON
01 4871
LICENSED ARCHITECT

3-19-2021
DATE

EXPIRES 11-30-2022

MECHANICAL / PLUMBING / ELECTRICAL

SYSTEM DESIGN SERVICE ENGINEERING
3600 East State Street, Suite 215
Rockford, IL 61108
PHONE: 815/399-3381 FAX 815/399-3381
www.sdsegroup.com
IL. Design Firm No. 184.004999

LICENSED PROFESSIONAL ENGINEER
SCOTT JAY BAIER
062-059748
STATE OF ILLINOIS

EXP 3/31/2021

SHEET INDEX

TITLE SHEET

T101 TITLE SHEET

ARCHITECTURAL

A101 FLOOR PLANS

MECHANICAL

M101 MECHANICAL NEW WORK PLAN
M102 MECHANICAL ABBREVIATIONS, GENERAL NOTES AND EQUIPMENT SCHEDULES

ELECTRICAL

E101 ELECTRICAL DEMOLITION PLAN
E102 ELECTRICAL NEW WORK PLAN
E103 ELECTRICAL DISTRIBUTION DIAGRAM
E104 ELECTRICAL PANEL SCHEDULES AND SWITCHBOARD DETAILS
E105 ELECTRICAL SYMBOLS, NOTES, ABBREVIATIONS AND LIGHTING FIXTURE SCHEDULE

PROJECT SCHEDULE

APRIL 27	RPS BOARD OF EDUCATION AWARDS PROJECT
APRIL 28	RPS NOTIFIES CONTRACTOR TO START SHOP DRAWINGS FOR ELECTRICAL EQUIPMENT
MAY 7	CONTRACTOR COMPLETES SHOP DRAWINGS
MAY 13	ARCHITECT/ENGINEER APPROVE SHOP DRAWINGS
MAY 14	ELECTRICAL EQUIPMENT ORDERED BY CONTRACTOR
JUNE 14	START CONSTRUCTION
AUGUST 13	COMPLETE CONSTRUCTION

NOTE: NO ELECTRICAL SHUTDOWNS CAN OCCUR PRIOR TO JULY 9, 2021.

SWITCHGEAR REPLACEMENT WORK AT
ROOSEVELT COMMUNITY EDUCATION CENTER
ROCKFORD PUBLIC SCHOOL DISTRICT 205
ROCKFORD, ILLINOIS

RICHARD L. JOHNSON
ASSOCIATES | ARCHITECTS

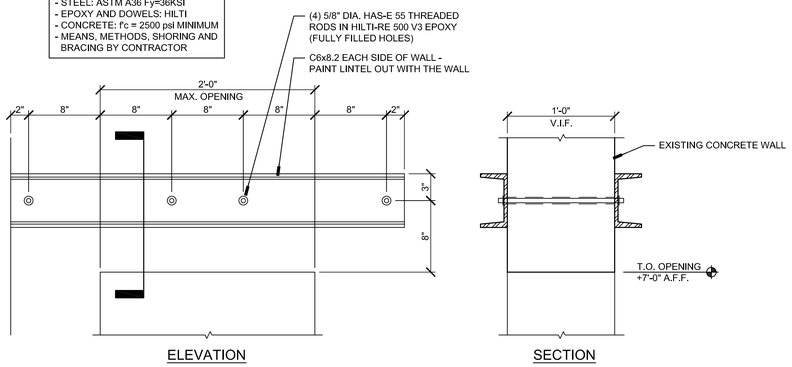
SHEET IDENTIFICATION
TITLE SHEET

PROJECT INFORMATION
Date March 19, 2021
Rev. Date
RLJA Proj 2021-005

SHEET NUMBER
T101

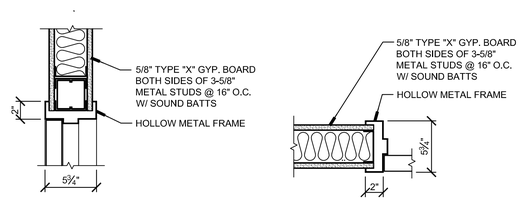
NOTES:

- STEEL: ASTM A36 Fy=36KSI
- EPOXY AND DOWELS: HILTI
- CONCRETE: f'c = 2500 psi MINIMUM
- MEANS, METHODS, SHORING AND BRACING BY CONTRACTOR



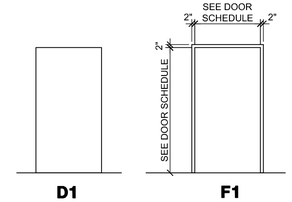
5 LINTEL DETAIL
SCALE: 1-1/2"=1'-0"

DOOR SCHEDULE																
DOOR NO.	DOORS				DOOR TYPE		FRAMES		GLAZING		DETAILS			HDWR GROUP	LABEL	REMARKS
	SG/PR	WIDTH	HEIGHT	THICK	MTL	ELEV.	MTL	ELEV.	DOOR	FRAME	HEAD	JAMB	SILL			
101	SG	3'-8"	7'-0"	1-3/4"	HM	D1	HM	F1	-	-	H1	J1	-	01	1 HR	



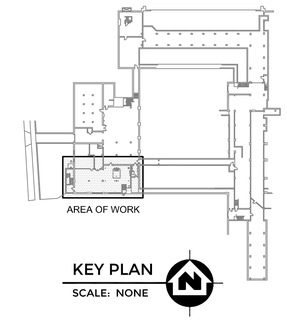
H1 HEAD DETAIL
SCALE: 1-1/2"=1'-0"

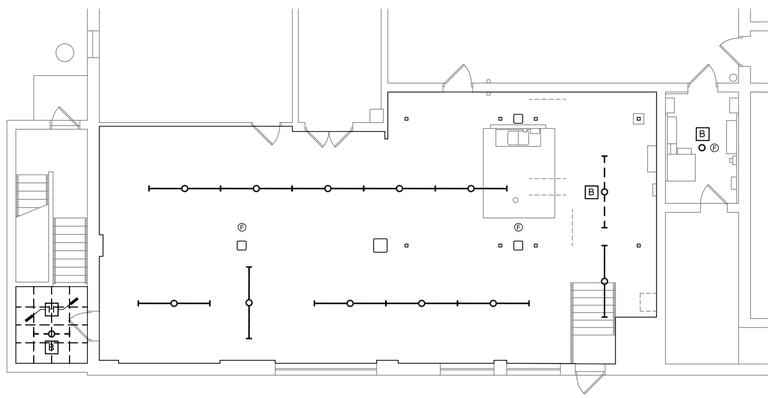
J1 JAMB DETAIL
SCALE: 1-1/2"=1'-0"



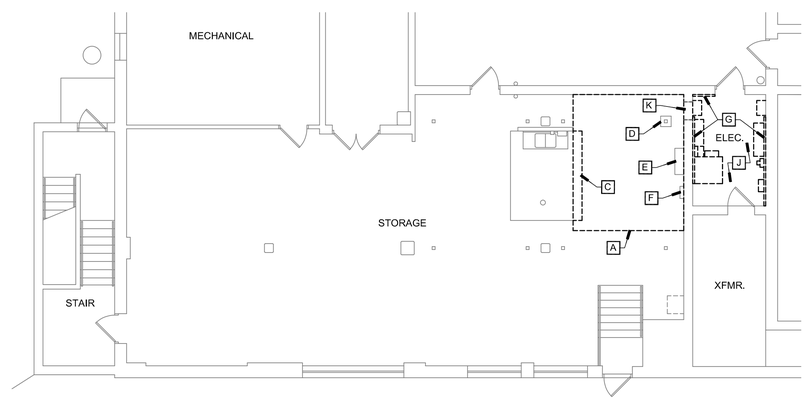
DOOR TYPES
SCALE: 1/4" = 1'-0"

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

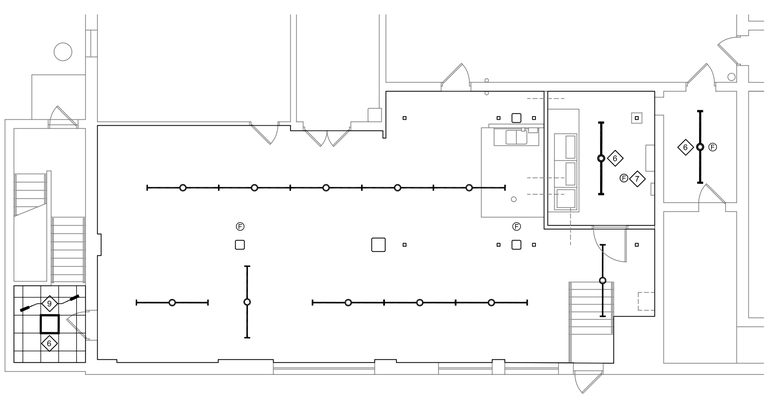




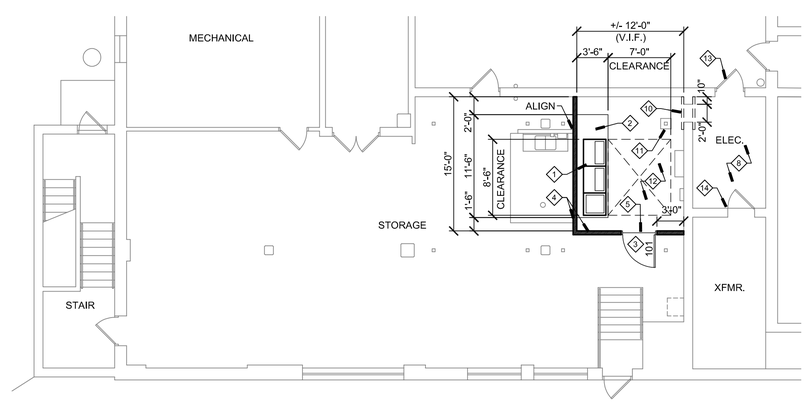
3 PARTIAL DEMOLITION REFLECTED CEILING PLAN
SCALE: 1/8"=1'-0"



1 PARTIAL DEMOLITION PLAN
SCALE: 1/8"=1'-0"



4 PARTIAL REVISED REFLECTED CEILING PLAN
SCALE: 1/8"=1'-0"



2 PARTIAL REVISED PLAN
SCALE: 1/8"=1'-0"

GENERAL NOTES

1. THE DEMOLITION PLAN IS PROVIDED AS AN AID IN PLANNING AND DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY IN FIELD VERIFYING THE EXISTING JOB SITE
2. THE GENERAL CONTRACTOR IS TO COORDINATE AND PROVIDE ALL DEMOLITION AND REMOVAL OF DEBRIS NECESSARY TO ACCOMMODATE NEW CONSTRUCTION
3. PROVIDE ALL TEMPORARY SHORING AS REQUIRED TO SUPPORT STRUCTURES AND FINISHES TO REMAIN
4. ALL AREAS, FINISHES AND ITEMS NOT REQUIRING DEMOLITION MUST BE PROTECTED DURING DEMOLITION AND CONSTRUCTION WORK
5. THIS DEMOLITION PLAN IS TO BE USED IN CONJUNCTION WITH THE REST OF THE SHEETS IN THE SET
6. EACH CONTRACTOR IS RESPONSIBLE TO PATCH AND MATCH EXISTING WALLS, CEILINGS AND FLOORS AFTER DEMOLITION WORK IS COMPLETE.
7. REFERENCE HVAC, PLUMBING, AND ELECTRICAL SHEETS FOR ITEMS TO BE REMOVED AND/OR RELOCATED.
8. ALL ITEMS TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE. VERIFY WITH OWNER WHAT ITEMS THEY WANT TO SALVAGE PRIOR TO REMOVING THEM OFF SITE.
9. PATCH EXISTING FLOORS, WALLS AND CEILINGS OF EXISTING BUILDING AS REQUIRED AFTER DEMOLITION TO MATCH EXISTING.

DEMOLITION BOX NOTES

- A REMOVE EXISTING CARPET AND ADHESIVE.
- B REMOVE EXISTING LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.
- C REMOVE PORTION OF EXISTING VCT AND ADHESIVE.
- D EXISTING COLUMN AND BASE TO REMAIN.
- E EXISTING ELECTRICAL PANEL TO REMAIN.
- F EXISTING ELECTRICAL SUB-PANEL TO REMAIN.
- G REMOVE EXISTING WALL MOUNTED WOOD AND FASTENERS. PATCH HOLES.
- H REMOVE EXISTING LAY-IN CEILING SYSTEM.
- J REMOVE ELECTRICAL ITEMS. SEE ELECTRICAL DRAWINGS.
- K SAW CUT AND REMOVE PORTION OF EXISTING CONCRETE WALL.

RENOVATION GENERAL NOTES

1. ALL PENETRATIONS THROUGH WALLS SHALL BE SEALED TIGHT.

RENOVATION KEY NOTES

1. NEW SWITCHBOARD. SEE ELECTRICAL DRAWINGS.
2. 4" CONCRETE PAD. DOWEL INTO EXISTING FLOOR. SEE DETAIL.
3. NEW HOLLOW METAL DOOR, FRAME AND HARDWARE. PAINT DOOR AND FRAME BOTH SIDES.
4. NEW 1 HOUR WALL CONSTRUCTION. 5/8" TYPE "X" GYP. BOARD BOTH SIDES OF 3-5/8" METAL STUDS @ 16" O.C. W/ SOUND BATTS. ASSEMBLY TO EXTEND FROM FLOOR TO DECK ABOVE. PAINT BOTH SIDES. FIRE SEAL PERIMETER BOTH SIDES AND ALL PENETRATIONS. PAINT BOTH SIDES. INSTALL 4" HIGH RUBBER BASE ON EACH SIDE OF THE WALL.
5. NEW TRANSITION STRIP.
6. NEW LED LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.
7. NEW FIRE DETECTOR. SEE ELECTRICAL DRAWINGS.
8. PAINT WALLS AND EXPOSED CEILING STRUCTURE INCLUDING DUCTS, CONDUITS, ETC..
9. NEW 2'x2' LAY-IN ACOUSTICAL CEILING SYSTEM. INSTALL AT SAME HEIGHT OF EXISTING CEILING.
10. NEW LINTEL. SEE DETAIL 5.
11. PAINT EXISTING COLUMN AND CONCRETE BASE.
12. PAINT EXISTING EXPOSED CEILING STRUCTURE INCLUDING DUCTS, CONDUITS, ETC..
13. PAINT EXISTING DOOR AND FRAME BOTH SIDES.
14. PAINT EXISTING FRAME.

SWITCHGEAR REPLACEMENT WORK AT
ROOSEVELT COMMUNITY EDUCATION CENTER
ROCKFORD PUBLIC SCHOOL DISTRICT 205
ROCKFORD, ILLINOIS

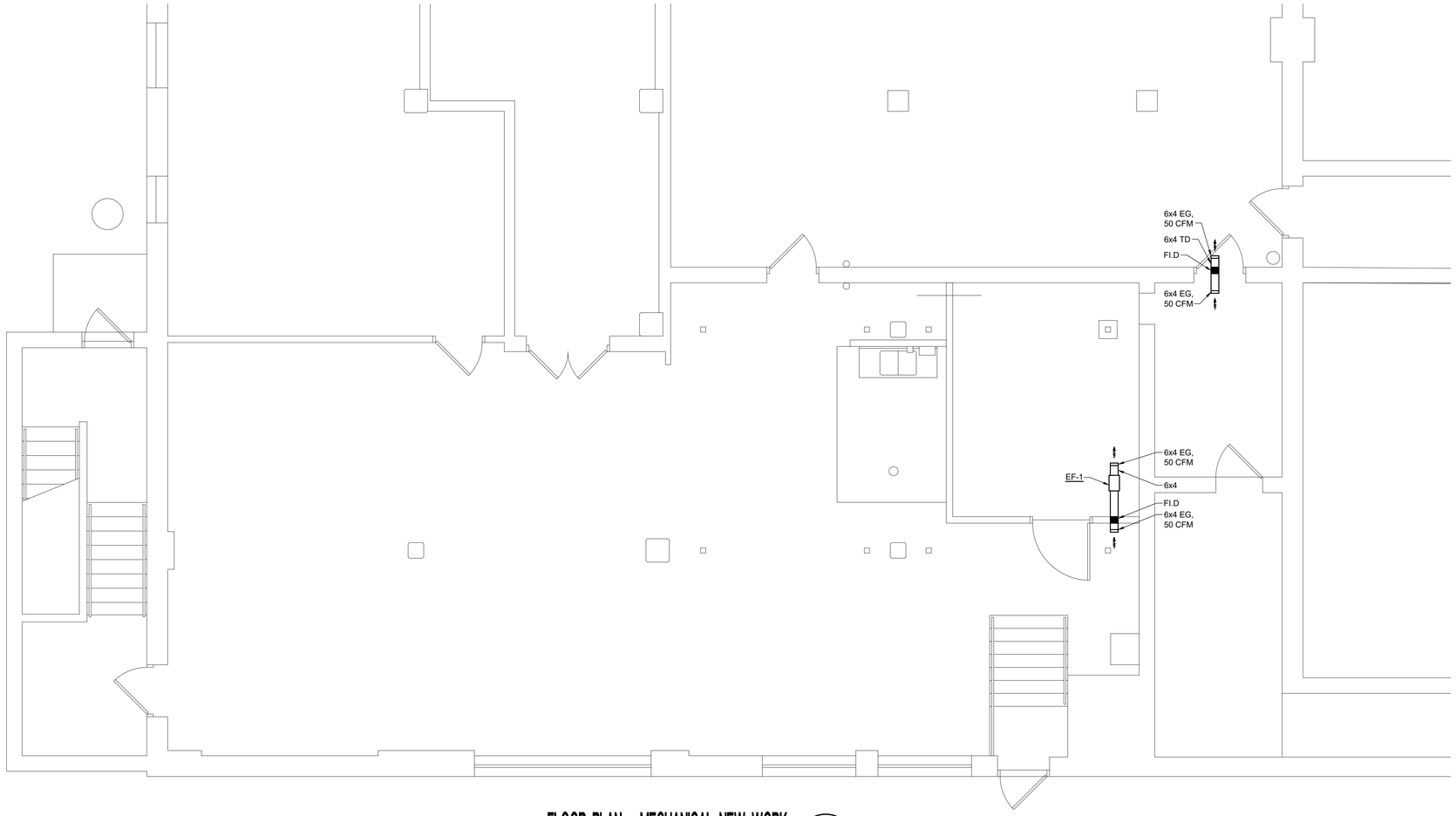
RICHARD L. JOHNSON
ASSOCIATES | ARCHITECTS

SHEET IDENTIFICATION
FLOOR PLANS

PROJECT INFORMATION

Date	March 19, 2021
Rev. Date	
RLJA Proj	2021-005

SHEET NUMBER
A101
OF
1



FLOOR PLAN - MECHANICAL NEW WORK

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

N

SWITCHGEAR REPLACEMENT WORK AT
ROOSEVELT COMMUNITY EDUCATION CENTER
ROCKFORD PUBLIC SCHOOL DISTRICT 205
ROCKFORD, ILLINOIS

RICHARD L. JOHNSON ASSOCIATES | ARCHITECTS

SHEET IDENTIFICATION
MECHANICAL NEW WORK PLAN

PROJECT INFORMATION

Date	March 19, 2021
Rev. Date	
RLJA Proj	2021-005

SHEET NUMBER
M101
OF
2

SYSTEMS DESIGN SERVICE
ENGINEERING LLC
3600 EAST STATE STREET•SUITE 215•ROCKFORD, ILLINOIS•61108
PHONE (815) 399-3381 FAX (815) 399-3383 WWW.SDSEGROUP.COM
IL PROF DESIGN FIRM #184.004499

BASIC ABBREVIATIONS

MARK	DESCRIPTION	MARK	DESCRIPTION
AAD	AUTOMATIC ALUMINUM DAMPERS	MC	MECHANICAL CONTRACTOR
ACCU	AIR COOLED CONDENSING UNIT	MTD	MOUNTED
AD	ACCESS DOOR	NC	NEW CONNECTION
AFC	ADJUSTABLE FLEXIBLE CONNECTION	OA	OUTDOOR AIR
AFF	ABOVE FINISH FLOOR	OAD	OUTDOOR AIR DAMPER
ALUM	ALUMINUM	OAI	OUTDOOR AIR INTAKE
AP	ACCESS PANEL	OU.D.	OUTDOOR AIR DUCT
ASC	ABOVE SUSPENDED CEILING	P	PRESENT
BOD	BOTTOM OF DUCT	PC	PLUMBING CONTRACTOR
BDD	BACK DRAFT DAMPER	PRE	POWER ROOF EXHAUSTER
BJA	BETWEEN JOISTS ABOVE	RAD	RETURN AIR DAMPER
CAD	COMBUSTION AIR DAMPER	RE.D.	RETURN AIR DUCT
CD	CEILING DIFFUSER (S) SUPPLY (R) RETURN	REF	REFERENCE
CFM	CUBIC FEET PER MINUTE	REFRIG.	REFRIGERANT-LIQUID,SUCTION,HGBP
CLG	CEILING	RG	RETURN GRILLE
CTC	CLOSE TO CEILING (EXPOSED)	RR	RETURN REGISTER
CTF	CLOSE TO FLOOR	RTU	ROOFTOP UNIT
CTW	CLOSE TO WALL (EXPOSED)	SCD	SUPPLY CEILING DIFFUSER
D	DRAIN	SIM	SIMILAR
DC	DUCT COVERING	SG	SUPPLY GRILLE
DCO	DOOR CUTOFF (BY OTHERS)	SLD	SUPPLY LINEAR DIFFUSER
DL	DUCT LINING	SM	SHEET METAL
DS	DISCONNECT SWITCH	SR	SUPPLY REGISTER
DV	DOOR VENT (BY OTHERS)	SS	STAINLESS STEEL
EC	ELECTRICAL CONTRACTOR	STW	SLEEVE THRU WALL AND SEAL
EH	EXHAUST HOOD	SU.D.	SUPPLY DUCT
ER	EXHAUST REGISTER	TBF	TO BELOW FLOOR
EF	EXHAUST FAN	TC	TEMPERATURE CONTROL
EG	EXHAUST GRILLE	TFA	TO FLOOR ABOVE
EX.D.	EXHAUST DUCT	TFB	TO FLOOR BELOW
EXP	EXPOSED	TF.D.	TRANSFER DUCT
FBF	FROM BELOW FLOOR	TG	TRANSFER GRILLE
FBO	FURNISHED BY OTHERS	TJA	THRU JOIST ABOVE
FFA	FROM FLOOR ABOVE	TOD	TOP OF DUCT
FFB	FROM FLOOR BELOW	TR	THROUGH ROOF
FI.D.	FIRE DAMPER	TYP	TYPICAL
G	GAS PIPING	VE.D.	VENT AIR DUCT
GC	GENERAL CONTRACTOR	VD	VOLUME DAMPER
HGBP	HOT GAS BYPASS PIPING	VG	VENT GRILLE
HVAC	HEATING, VENTILATING & AIR CONDITION.	VTR	VENT THRU ROOF
IWS	IN WALL SPACE, CONCEALED	W/	WITH

SEE SPECIFICATIONS FOR ADDITIONAL ABBREVIATIONS, PREFIXES, SUFFIXES, ETC.

HVAC SHEET METAL SYMBOLS:

(SEE SPECIFICATIONS FOR ADDITIONAL NOTES, SYMBOLS, ABBREVIATIONS, ETC.)

UP — SUPPLY DUCT (SU.D.) = RETURN DUCT (RE.D.) = EXHAUST DUCT (EX.D.) = VENT DUCT (VE.D.) = OUTDOOR DUCT (OU.D.) — DOWN

= SUPPLY CEILING DIFFUSER

= SUPPLY REGISTER (SR) = SUFFIX (-W) = WALL MOUNT - CFM TYP.
SUFFIX (-C) = CEILING MOUNT
SUFFIX (-F) = FLOOR MOUNT
SUFFIX (-#) = TYPE AS SCHEDULED

= RETURN REGISTER (RR)

= EXHAUST REGISTER (ER)

= VENT REGISTER (VR)

= SUPPLY GRILLE (SG)

= RETURN GRILLE (RG)

= EXHAUST GRILLE (EG)

= VENT GRILLE (VG)

DCO = DOOR CUT-OFF (DCO); BY OTHERS

DV = DOOR VENT (DV); BY OTHERS

D R = DUCT R=RISE, D=DROP WITH DIRECTION OF AIR FLOW

= SUPPLY CEILING DIFFUSER (SCD)

4 WAY, 3 WAY, 2 WAY OPPOSITE, 2 WAY CORNER, 1 WAY

= ARROW INDICATES DIRECTION OF AIR FLOW

FI.D = U.L. FIRE DAMPER - SHEET METAL SLEEVE AROUND DUCT IN WALL, ADJACENT ACCESS DOOR

= MANUAL VOLUME DAMPER - MUST BE ACCESSIBLE

M M = MOTORIZED VOLUME DAMPER - MUST BE ACCESSIBLE

= BRANCH DUCT TAKE-OFF WITH MANUAL VOLUME EXTRACTOR, MUST BE ACCESSIBLE

AFC = ADJUSTABLE FLEXIBLE CONNECTION (AFC) BETWEEN DUCTS

= ADJUSTABLE FLEXIBLE CONNECTION TO REGISTER, DIFFUSERS, ETC.

= VANED ELBOW - SMACNA PLATE #22

= RADIUS ELBOW - SMACNA PLATE #21 LOW VELOCITY

T = THERMOSTAT - ARROW INDICATES UNITS CONTROLLED, -G = WITH GUARD, 4'-0" FOR HANDICAP.

X/Y , N x O = DUCT SIZE (1ST FIGURE SIDE SHOWN, 2ND FIGURE SIDE NOT SHOWN) BOTH SIDES REFER TO INSIDE DIMENSION, DIMENSIONS IN INCHES.

XØ = DIAMETER, DIMENSIONS IN INCHES.

EQUIPMENT , EQUIPMENT = EQUIPMENT NOTE, DESIGNATION, OR ITEM.

MECHANICAL GENERAL NOTES:

1. DRAWINGS ARE GENERALLY DIAGRAMMATIC. EACH CONTRACTOR SHALL MAKE REQUIRED CHANGES FROM THE GENERAL ROUTING SHOWN ON THESE DRAWINGS SUCH AS OFF SETS, BENDS OR CHANGES IN ELEVATION DUE TO COORDINATION WITH THE WORK OF OTHER TRADES AND THE BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER. FOR PRESENT CONSTRUCTION, VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING TO AVOID CONFLICT. IT IS INTENDED THAT ALL EQUIPMENT, MATERIAL, DEVICES, ETC., SHALL BE LOCATED SYMMETRICALLY WITH THE ARCHITECTURAL ELEMENTS, NOTWITHSTANDING THE FACT THAT LOCATIONS INDICATED BY THESE DRAWINGS MAY BE DISTORTED FOR CLEARNESS OF PRESENTATION.

   CONTRACTOR IS ALLOWED TO MAKE MINOR CHANGES TO THE PIPING TO AVOID FIELD CONFLICTS AT NO ADDITIONAL COST TO THE OWNER AND AS LONG AS THE RELOCATION DOES NOT AFFECT THE PERFORMANCE OF THE SYSTEM.

   EACH CONTRACTOR SHALL CHECK DRAWINGS OF THE OTHER CONTRACTORS TO VERIFY SPACES IN WHICH THEIR WORK WILL BE INSTALLED IS CLEAR OF OBSTRUCTIONS. MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS IN THE BUILDING. WHERE HEADROOM OR SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE INSTALLATION.

   FURNISH ALL TRADES ADVANCE INFORMATION ON LOCATIONS AND SIZES OF PIPING, DUCTWORK, EQUIPMENT, FRAMES, BOXES, SLEEVES AND OPENINGS NEEDED FOR WORK, AND ALSO FURNISH INFORMATION AND SHOP DRAWINGS TO PERMIT TRADES AFFECTED TO INSTALL THEIR WORK PROPERLY AND WITHOUT DELAY.

   WHERE THERE IS EVIDENCE THAT WORK OF ONE TRADE WILL INTERFERE WITH WORK OF OTHER TRADES, ALL TRADES SHALL ASSIST IN WORKING OUT SPACE CONDITIONS TO MAKE SATISFACTORY ADJUSTMENTS.

   CONTRACTOR TO REVIEW, PRIOR TO BIDDING, ALL DRAWINGS TO COORDINATE VARIOUS WORK AS CALLED FOR. CONTRACTOR SHALL CAREFULLY CHECK ALL DRAWINGS FOR ALL TRADES, AND ANY LACK OF COORDINATION BETWEEN HIS WORK AND DRAWINGS FOR JOB CONDITIONS SHALL BE IMMEDIATELY REPORTED TO ARCHITECT.

   CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING. INCLUDING CORE DRILLING, SAW CUTTING, ETC., AS REQUIRED TO ACCOMMODATE HIS WORK. CUTTING AND PATCHING AND PAYMENT OF SAID WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR REQUIRING THE DISTURBANCE BUT SAME SHALL BE DONE BY A GENERAL CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE APPROPRIATE MECHANICAL CONTRACTOR TO GIVE QUANTITIES OF PATCHING REQUIREMENTS TO A GENERAL CONTRACTOR. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

   CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF PRESENT CEILINGS, LIGHT FIXTURES, DIFFUSERS, DUCTWORK, PIPING, CONDUIT, ETC., AS REQUIRED FOR THE INSTALLATION OF HIS WORK. REMOVAL, REPLACEMENT AND PAYMENT FOR MECHANICAL/ELECTRICAL ITEMS SHALL BE THE RESPONSIBILITY OF THE APPLICABLE MECHANICAL CONTRACTOR. REMOVAL AND REPLACEMENT OF PRESENT CEILINGS, ETC., SHALL BE THE RESPONSIBILITY OF CONTRACTOR MAKING THE DISTURBANCE BUT SAME SHALL BE DONE BY A GENERAL CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE APPROPRIATE MECHANICAL CONTRACTOR TO GIVE QUANTITIES OF REMOVAL/REPLACEMENT REQUIREMENTS TO A GENERAL CONTRACTOR.

2. HEATING, VENTILATING, AIR CONDITIONING, AND ELECTRICAL DESIGNS ARE BASED ON THE REQUIREMENTS FOR THE SPECIFIED EQUIPMENT MANUFACTURER. BASED ON THE REQUIREMENTS FOR THE SPECIFIED EQUIPMENT MANUFACTURER. CONDUITS, DISCONNECTS, BREAKERS, FUSES, AND WIRE SIZES ARE SELECTED ON THE BASIS OF SPECIFIED EQUIPMENT MANUFACTURER. INCREASED CURRENT REQUIREMENTS NECESSITATING LARGER WIRE, BREAKERS, FUSES, SWITCHES, ETC. TO ACCOMMODATE ANY ALTERNATE OR SUBSTITUTE MANUFACTURER'S EQUIPMENT OTHER THAN AS SHOWN ON DRAWINGS OR SCHEDULES SHALL BE PROVIDED WITHOUT INCREASE IN CONTRACT PRICE BY THE CONTRACTOR FURNISHING EQUIPMENT. WIRE SIZES ARE SELECTED ON THE BASIS OF SPECIFIED EQUIPMENT.

3. REFRIGERANT PIPING TO BE SIZED, PIPED, AND QUANTITIES AS RECOMMENDED BY THE MANUFACTURER. FURNISH DRAWINGS IN THE FORM OF SHOP DRAWINGS SHOWING ALL PIPING SIZES, CONNECTIONS RISERS, TRAPS, REFRIGERANT DEVICES AND ACCESSORIES, ETC. FOR THE COMPLETE INSTALLATION OF EACH RESPECTIVE SYSTEM. CONNECTIONS TO CONDENSING UNITS SHALL BE MADE WITH REFRIGERANT TYPE VIBRATION ELIMINATORS. CONNECTIONS TO AIR HANDLING UNITS SHALL BE MADE WITH SWING TYPE OFFSETS TO ABSORB ANY VIBRATION THAT MAY BE EVIDENT. PRECHARGED REFRIGERANT PIPING WILL NOT BE ALLOWED. CONTRACTOR TO INSULATE ALL SUCTION AND HOT GAS LINES WITH 1/2" ARMAFLEX, RUBATEX, OR EQUIVALENT MAKE.

4. CONTRACTOR SHALL PROVIDE TRAPPED COOLING COIL CONDENSATE DRAIN LINES FROM ALL ROOFTOP UNITS TO ROOF.

5. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR FOR ALL CEILING DIFFUSERS, REGISTERS, AND/OR GRILLES AS TO LOCATION, QUANTITIES AND PROPER TYPES FOR SURFACE MOUNT AND/OR LAY-IN SUSPENDED CEILINGS AND LIGHT PATTERNS. OPENINGS SHALL BE IN CENTER OF TILES OR AS DIRECTED BY ARCHITECT/ENGINEER.

6. CONTRACTOR SHALL INCLUDE IN HIS WORK THE RELOCATION OF ALL CROSS BRACING, AS REQUIRED TO FIT DUCTS BETWEEN JOISTS. THIS WORK SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR WITH ARCHITECTURAL APPROVAL.

7. CONTRACTOR SHALL PROVIDE ALL DUCT DROPS AND OFFSETS TO AVOID INTERFERENCES WITH JOISTS, OTHER DUCTS, LIGHTS, PIPES, ETC.

8. ALL DUCTWORK TO BE HELD TIGHT TO STRUCTURAL ROOF JOISTS, BEAMS, ETC. AS CLEARANCE IS MINIMAL. COORDINATE WITH OTHER CONTRACTORS TO AVOID CONFLICT. ALL DUCTWORK IS ABOVE SUSPENDED CEILINGS, UNLESS NOTED OTHERWISE.

9. SHEETMETAL DUCT SIZES MAY BE ALTERED TO FIT JOB CONDITIONS, BUT NET FREE AREAS MUST BE MAINTAINED. INCREASE SHEETMETAL DUCT SIZE TO ALLOW FOR DUCT LINING. INSULATE DUCTWORK AS NOTED.

10. INSTALL 1" OF NON-SHRINK GROUT AROUND DUCTWORK ON EACH WALL FACE TO SEAL OPENINGS AND ELIMINATE SOUND TRANSFER WITH AIR-TIGHT CONNECTIONS.

11. CONTRACTOR SHALL INCLUDE IN HIS WORK (1) SET OF FILTERS TO BE USED DURING CONSTRUCTION FOR ALL AIR HANDLING EQUIPMENT, FURNACES, ENERGY RECOVERY VENTILATORS, ROOFTOP UNITS, RETURN FANS, FILTER BOXES, FAN OPERATED VAV BOXES, ETC. CONTRACTOR PRIOR TO AIR BALANCING AND BUILDING OCCUPANCY SHALL INSTALL A COMPLETE SET OF CLEAN FILTERS. PROVIDE TO OWNER (1) COMPLETE SPARE/REPLACEMENT SET OF FILTERS FOR EACH PIECE OF EQUIPMENT. PROVIDE ALSO TO OWNER IN WRITING REPLACEMENT SIZES, TYPE, NUMBER PER EQUIPMENT, LOCATIONS, ETC.

12. UPON BALANCING, IF SYSTEM(S) CANNOT BE SUCCESSFULLY BALANCED AS AGREED BY OWNER/ARCHITECT/ENGINEER THEN ADDITIONAL DAMPERS, BELTS, SHEAVES, OR PULLEYS WILL BE INSTALLED TO PROVIDE PROPER AIR QUANTITIES, ACCEPTABLE SOUND LEVELS AND TEMPERATURE/ HUMIDITY REQUIREMENTS BY THE HVAC CONTRACTOR WITHOUT INCREASE IN CONTRACT PRICE WITHIN THE GUARANTEE PERIOD.

13. <u>SCHEDULE OF DUCT INSULATION</u>:
    A. RECTANGULAR/ROUND SU.D/RE.D/VE.D, W/ 3" DC, MINIMUM INSTALLED R FACTOR OF 8; IN ATTIC SPACE.
    B. RECTANGULAR SU.D./VE.D, W/1-1/2" DL OR 2" DC, MINIMUM INSTALLED R FACTOR OF 6; ASC OR IN NON-CONDITIONED SPACES.
    C. ROUND SU.D./VE.D, W/2" DC, MINIMUM INSTALLED R FACTOR OF 6; ASC OR IN NON-CONDITIONED SPACES.
    D. RECTANGULAR RE.D. W/1-1/2" DL, MINIMUM INSTALLED R FACTOR OF 6; WHERE INDICATED ON DRAWINGS.
    E. ROUND FLEXIBLE SU.D./VE.D, W/2" MINIMUM INSTALLED R FACTOR OF 6; PRE-INSULATED DC. 5 FT. 0 IN. MAX. LENGTH.
    F. RECTANGULAR AND ROUND OU.D. W/2" DC.
    G. RECTANGULAR EX.D. FROM EXHAUST REGISTER W/1" DL TO 5 FT. DOWNSTREAM OF EXHAUST REGISTER, EXCEPT WET AREAS SUCH AS SHOWERS.
    H. ROUND OR RECTANGULAR EX.D. W/1" DC AT 5 FT. BEFORE EF OR 5 FT. BEFORE DUCT LEAVES INTERIOR, UNLESS DL IS CALLED FOR.
    I. EXTERIOR RECTANGULAR/ROUND SU.D/RE.D/VE.D, W/ 3" DC, 6 LB. DENSITY, FIBERGLASS WITH FOIL FACE, MINIMUM INSTALLED R FACTOR OF 8; .020 ALUMINUM JACKET. SEAL WEATHERTIGHT.

14. ALL THERMOSTATS LOCATED UP 4'-0" TO MEET ADA REQUIREMENTS WITH PLASTIC OR CAST GUARDS, AS SPECIFIED. ALL THERMOSTATS LOCATED ON EXTERIOR WALLS OR COLUMNS MUST BE MOUNTED ON THERMAL INSULATING BLOCKS.

18. PRESENT PAINTED CONSTRUCTION WHICH IS MARRED SHALL BE REPAINTED SAME AS NEW CONSTRUCTION.

19. THE USER OF THE DRAWINGS AGREES TO HOLD THE ENGINEER HARMLESS FOR ANY RESPONSIBILITY IN REGARD TO CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES AND FOR ANY SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK AND FURTHER SHALL HOLD THE ENGINEER HARMLESS FOR COST AND PROBLEMS ARISING FROM THE NEGLIGENCE OF THE CONTRACTOR, SUBCONTRACTOR, TRADESMEN OR WORKMEN. THE USE OF THESE DRAWINGS ALSO IMPLIES THAT THE ENGINEER SHALL TAKE NO RESPONSIBILITY FOR THE PLANNED USER'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE DRAWINGS OR CONTRACT DOCUMENTS.

20. SEE SPECIFICATIONS FOR ADDITIONAL NOTES, SYMBOLS, ABBREVIATIONS, PREFIXES AND SUFFIXES.

EXHAUST FAN (EF) SCHEDULE:

PLAN NO.	EF-1
SERVICE	ELECTRICAL ROOM
MFGR.	GREENHECK
MODEL	CSP-A110
TYPE	INLINE
CFM/ESP	50/0.1"
HP/VOLTAGE	FRACT./120-1-60
DRIVE/SPEEDS	DIRECT/MULTI
APPROX. WT.	20 LBS.
NOTES	1-3

NOTES: SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

1. PROVIDE UNIT WITH BACKDRAFT DAMPER, MOTOR RATED FOR CONTINUOUS USE, MOTOR THERMAL OVERLOAD PROTECTION, SOLID STATE SPEED CONTROL FACTORY MOUNTED TO UNIT, AND MOUNTING BRACKETS.
2. UNIT TO BE CONTROLLED BY WALL MOUNTED SWITCH (PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR, COORDINATE).
3. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

SYSTEMS DESIGN SERVICE engineering LLP
3600 EAST STATE STREET•SUITE 215•ROCKFORD, ILLINOIS•61108
PHONE (815) 399-3381 FAX (815) 399-3383 WWW.SDSEGROUP.COM
IL PROF DESIGN FIRM #184.004999

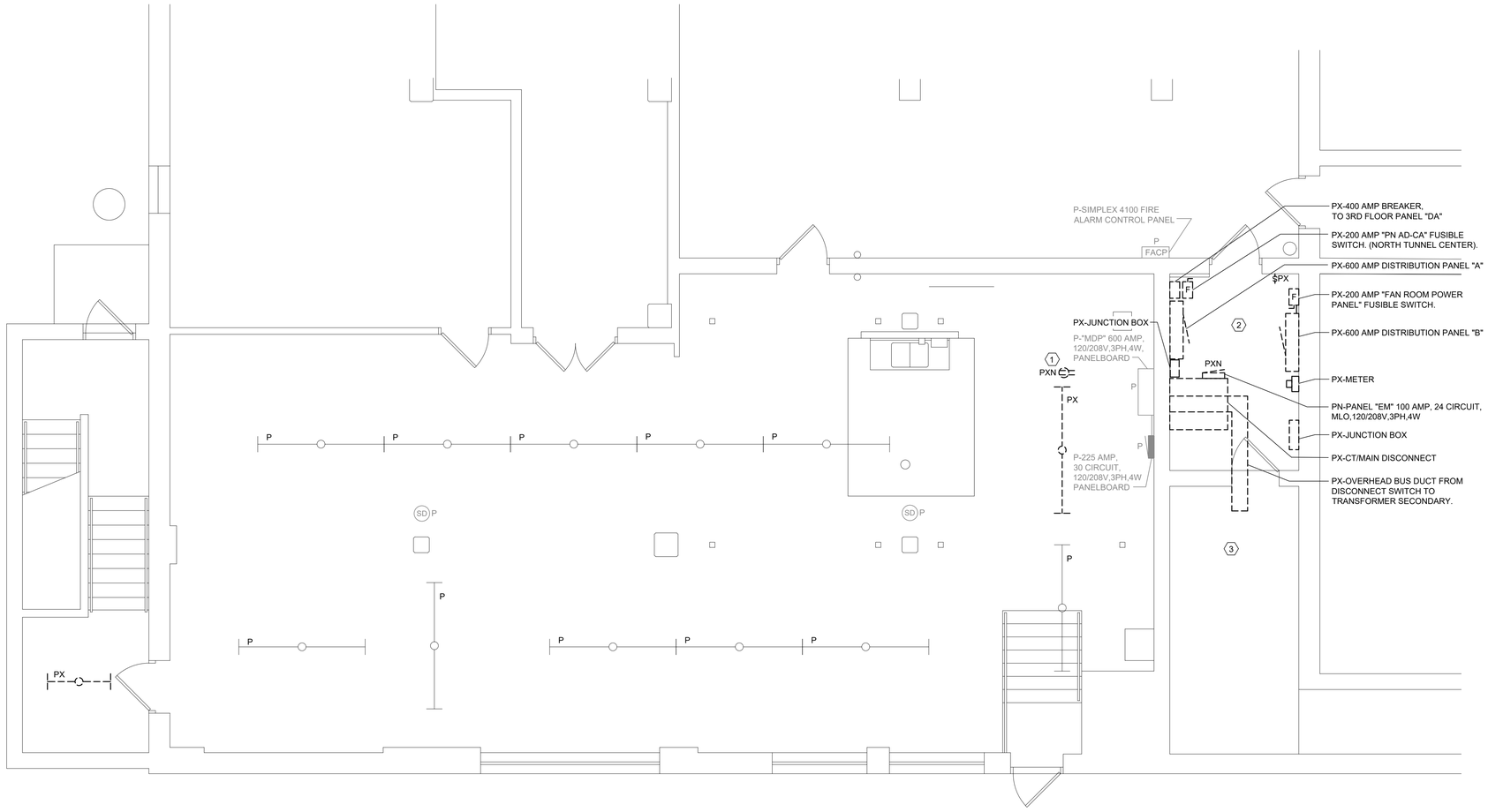
SWITCHGEAR REPLACEMENT WORK AT
ROOSEVELT COMMUNITY EDUCATION CENTER
ROCKFORD PUBLIC SCHOOL DISTRICT 205
ROCKFORD, ILLINOIS

RICHARD L. JOHNSON
ASSOCIATES | ARCHITECTS

SHEET IDENTIFICATION
MECHANICAL ABBREVIATIONS, GENERAL NOTES, AND EQUIPMENT SCHEDULES

PROJECT INFORMATION
Date March 19, 2021
Rev. Date
RLJA Proj 2021-005

SHEET NUMBER
M102
OF
2



FLOOR PLAN - ELECTRICAL DEMOLITION

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

N

(X) KEY NOTES FOR THIS SHEET

1. RELOCATE EXISTING CEILING MOUNTED OUTLET TO FEED PRESENT FIXTURE. REWORK CORD AND PLUG TO REMAINING FIXTURE CONNECTED TO FIXTURE BEING REMOVED.
2. REMOVE EXISTING LIGHT FIXTURES AND WALL BUTTON IN THIS ROOM.
3. CONTRACTOR SHALL COORDINATE WITH ComEd FOR REMOVAL OF EXISTING VAULT TRANSFORMER AND PRIMARY FEEDER CABLES

SYSTEMS DESIGN SERVICE ENGINEERING LTD.
3600 EAST STATE STREET • SUITE 215 • ROCKFORD, ILLINOIS • 61108
PHONE (815) 399-3381 FAX (815) 399-3383 WWW.SDSEGROUP.COM
IL PROF DESIGN FIRM #184.004999

SWITCHGEAR REPLACEMENT WORK AT
ROOSEVELT COMMUNITY EDUCATION CENTER
ROCKFORD PUBLIC SCHOOL DISTRICT 205
ROCKFORD, ILLINOIS

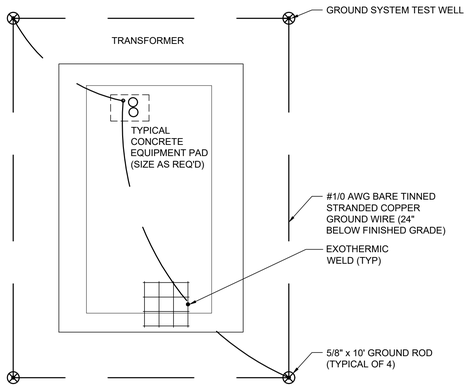
RICHARD L. JOHNSON ASSOCIATES | ARCHITECTS

SHEET IDENTIFICATION
ELECTRICAL DEMOLITION PLAN

PROJECT INFORMATION

Date	March 19, 2021
Rev. Date	
RLJA Proj	2021-005

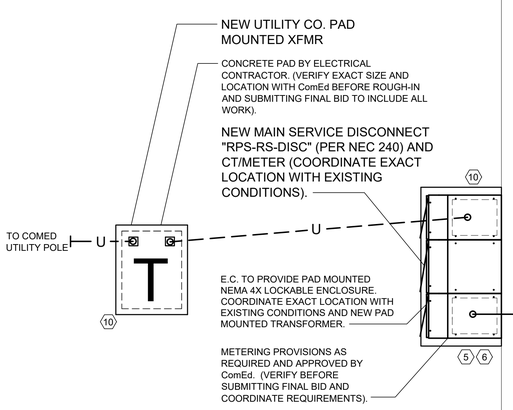
SHEET NUMBER
E101
OF
5

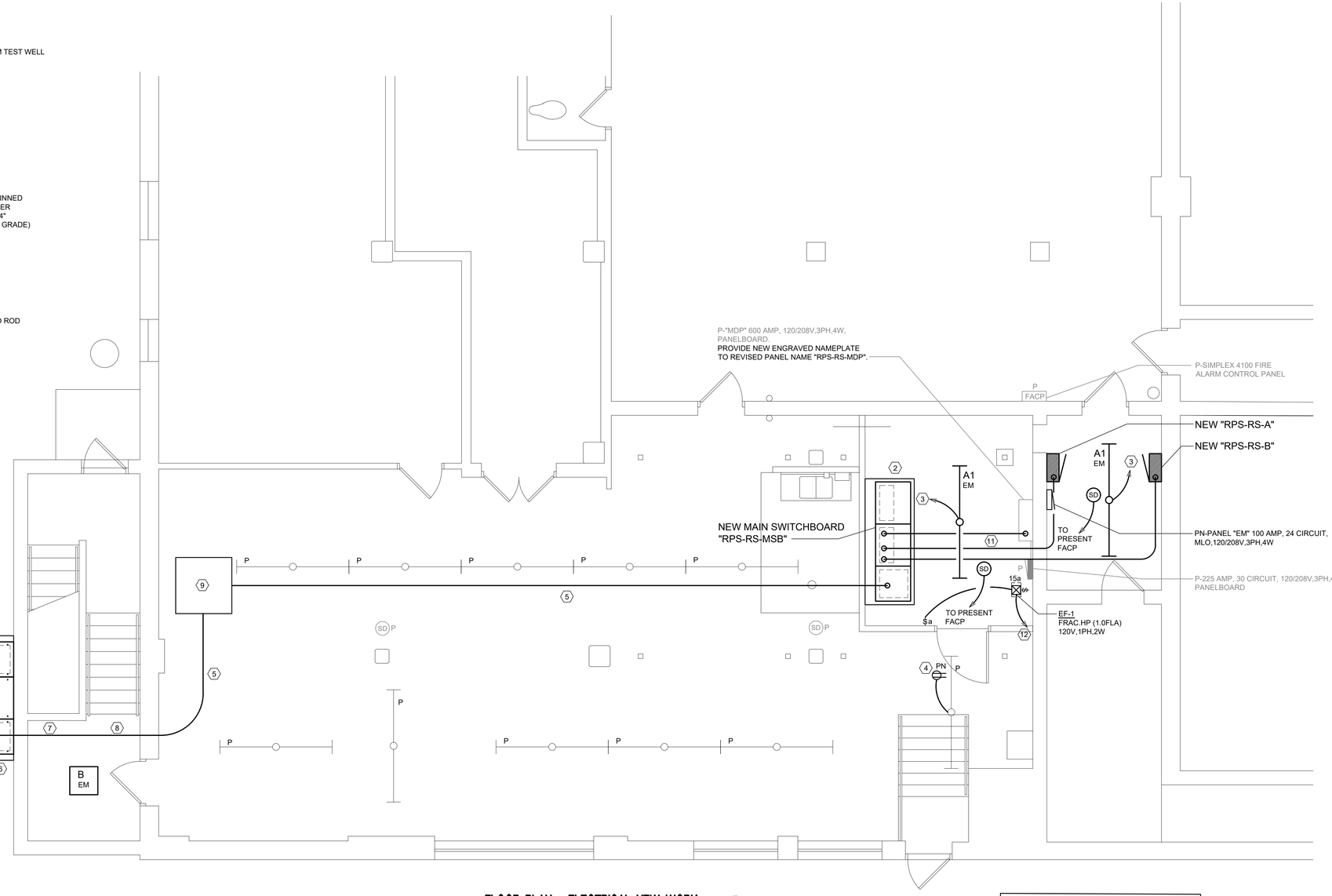


PAD GROUNDING DETAIL

NO SCALE

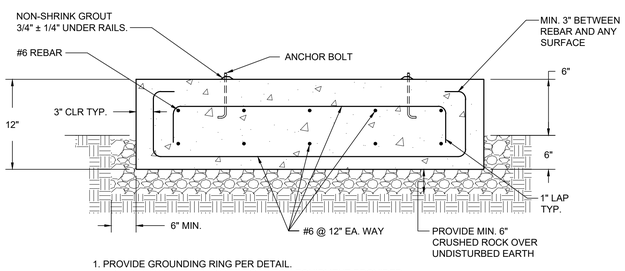
COORDINATE ALL REQUIREMENTS WITH UTILITY PRIOR TO ROUGH-IN. ALL DIMENSIONS SHALL BE VERIFIED WITH FINAL TRANSFORMER SIZE.





FLOOR PLAN - ELECTRICAL NEW WORK

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



1. PROVIDE GROUNDING RING PER DETAIL.
2. ADJUST CONCRETE PAD SIZE TO MATCH EQUIPMENT PROVIDED.
3. PROVIDE NON-SHRINK GROUT UNDER RAILS AS REQUIRED BY EQUIPMENT MANUFACTURER.

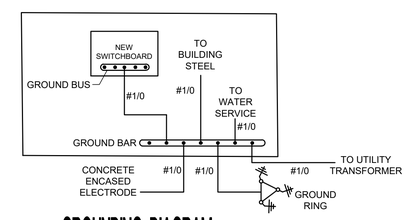
EQUIPMENT PAD DETAIL

NO SCALE

COORDINATE ALL REQUIREMENTS WITH UTILITY AND MANUFACTURER PRIOR TO ROUGH-IN.

KEY NOTES FOR THIS SHEET

1. REWORK AND EXTEND EXISTING BRANCH FEEDERS AS REQUIRED TO NEW SWITCHBOARD. FIELD VERIFY EXISTING CONDITIONS.
2. PROVIDE NEW 4" CONCRETE PAD.
3. REWIRE NEW LIGHTING FIXTURE TO EXISTING BRANCH CIRCUIT SERVING FIXTURES BEING REMOVED.
4. RELOCATE EXISTING CEILING MOUNTED OUTLET TO FEED PRESENT FIXTURE. REWORK CORD AND PLUG TO REMAINING FIXTURE CONNECTED TO FIXTURE BEING REMOVED.
5. COORDINATE EXACT ROUTING FOR NEW CONDUITS IN FIELD WITH EXISTING CONDITIONS.
6. E.C. TO RESTORE LANDSCAPE AREAS TO ORIGINAL CONDITION ONCE NEW TRANSFORMER, SWITCHBOARD AND CONDUITS ARE INSTALLED.
7. CORE AND SEAL CONDUIT PENETRATIONS THROUGH FOUNDATION WALL WATERTIGHT WHERE CONDUITS ENTER BUILDING.
8. REMOVE AND REINSTALL CEILINGS AS REQUIRED FOR NEW FEEDERS.
9. COORDINATE FINAL PULL BOX LOCATION WITH EXISTING MECHANICAL PIPING AND EXISTING CONDITIONS. SIZE PER NEC.
10. PROVIDE 10" CONCRETE PAD WITH 6" EXPOSED ABOVE GRADE.
11. ONLY 600A AND GREATER CONDUIT ROUTES ARE SHOWN FOR SIMPLICITY; ALL LOADS SHOWN ON ONE-LINE DIAGRAMS AND PANEL SCHEDULES SHALL BE RECONNECTED.
12. WIRE NEW EF-1 TO PRESENT 225 AMP, 120/208V,3PPH,4W PANEL ADJACENT TO PRESENT MDP. PROVIDE NEW 20A/1POLE BREAKER IN CIRCUIT #15 AND WIRE AS REQUIRED.



GROUNDING DIAGRAM

NO SCALE

SIZE AND TYPE OF THE GROUND WIRE AND BONDING JUMPERS AS PER ARTICLE 250 OF THE 2017 NATIONAL ELECTRICAL CODE. COORDINATE ALL REQUIREMENTS WITH THE LOCAL AHJ ELECTRICAL INSPECTOR PRIOR TO ROUGH-IN. PROVIDE A COMPLETE GROUNDING/BONDING SYSTEM IN COMPLIANCE WITH THE 2017 NEC AND LOCAL AUTHORITIES.

SYSTEMS DESIGN SERVICE ENGINEERING
3600 EAST STATE STREET • SUITE 215 • ROCKFORD, ILLINOIS • 61108
PHONE (815) 399-3381 FAX (815) 399-3383 WWW.SDSEGROUP.COM
IL PROF DESIGN FIRM #184.004499

SWITCHGEAR REPLACEMENT WORK AT
ROOSEVELT COMMUNITY EDUCATION CENTER
ROCKFORD PUBLIC SCHOOL DISTRICT 205
ROCKFORD, ILLINOIS

RICHARD L. JOHNSON ASSOCIATES | ARCHITECTS

SHEET IDENTIFICATION
ELECTRICAL NEW WORK PLAN

PROJECT INFORMATION
Date March 19, 2021
Rev. Date
RLJA Proj 2021-005

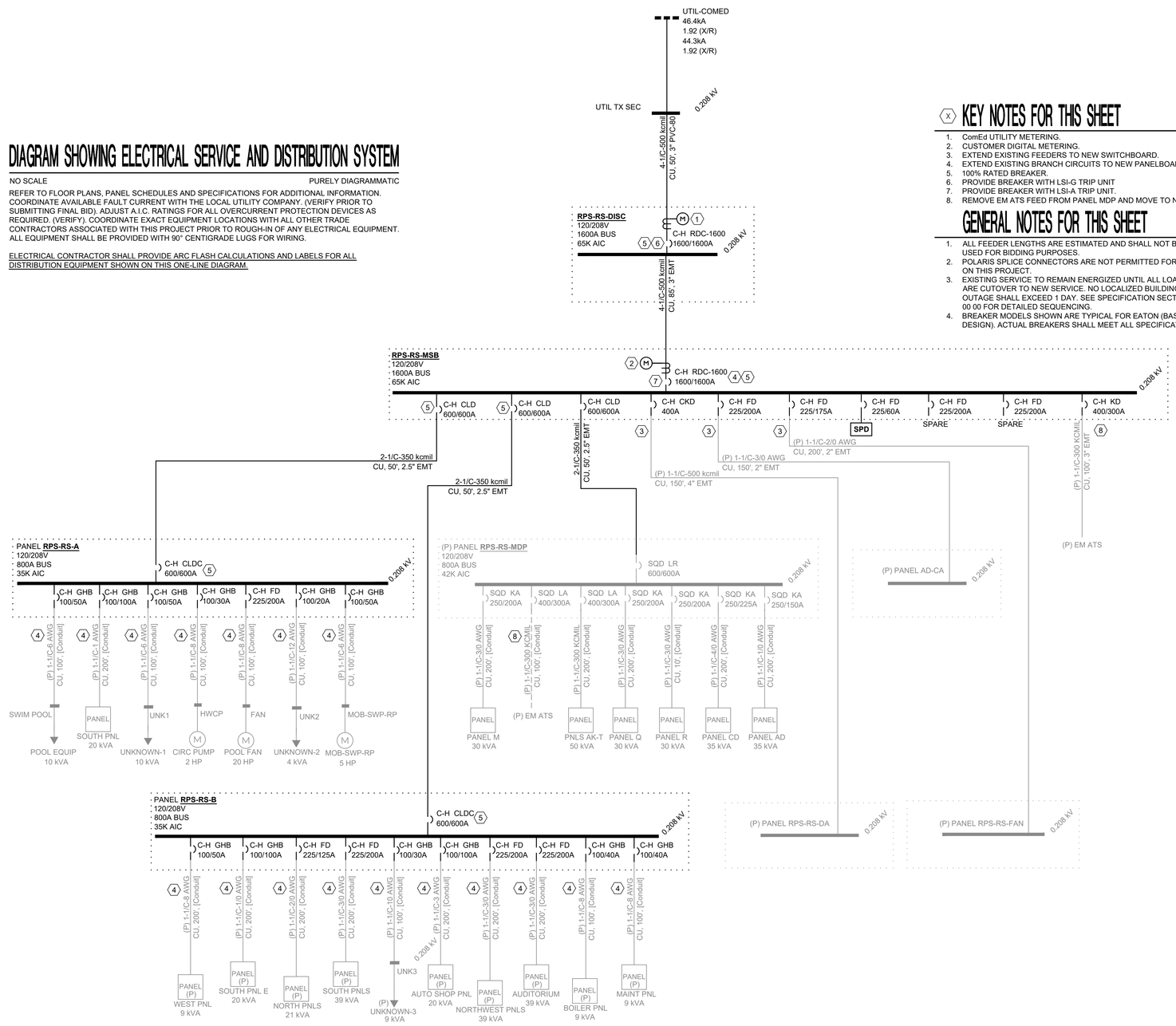
SHEET NUMBER
E102
OF
5

DIAGRAM SHOWING ELECTRICAL SERVICE AND DISTRIBUTION SYSTEM

NO SCALE PURELY DIAGRAMMATIC

REFER TO FLOOR PLANS, PANEL SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE AVAILABLE FAULT CURRENT WITH THE LOCAL UTILITY COMPANY. (VERIFY PRIOR TO SUBMITTING FINAL BID). ADJUST A.I.C. RATINGS FOR ALL OVERCURRENT PROTECTION DEVICES AS REQUIRED. (VERIFY). COORDINATE EXACT EQUIPMENT LOCATIONS WITH ALL OTHER TRADE CONTRACTORS ASSOCIATED WITH THIS PROJECT PRIOR TO ROUGH-IN OF ANY ELECTRICAL EQUIPMENT. ALL EQUIPMENT SHALL BE PROVIDED WITH 90° CENTIGRADE LUGS FOR WIRING.

ELECTRICAL CONTRACTOR SHALL PROVIDE ARC FLASH CALCULATIONS AND LABELS FOR ALL DISTRIBUTION EQUIPMENT SHOWN ON THIS ONE-LINE DIAGRAM.



NEW ONE-LINE DIAGRAM

KEY NOTES FOR THIS SHEET

1. ComEd UTILITY METERING.
2. CUSTOMER DIGITAL METERING.
3. EXTEND EXISTING FEEDERS TO NEW SWITCHBOARD.
4. EXTEND EXISTING BRANCH CIRCUITS TO NEW PANELBOARD.
5. 100% RATED BREAKER.
6. PROVIDE BREAKER WITH LSI-G TRIP UNIT
7. PROVIDE BREAKER WITH LSI-A TRIP UNIT.
8. REMOVE EM ATS FEED FROM PANEL MDP AND MOVE TO NEW SWBD

GENERAL NOTES FOR THIS SHEET

1. ALL FEEDER LENGTHS ARE ESTIMATED AND SHALL NOT BE USED FOR BIDDING PURPOSES.
2. POLARIS SPLICE CONNECTORS ARE NOT PERMITTED FOR USE ON THIS PROJECT.
3. EXISTING SERVICE TO REMAIN ENERGIZED UNTIL ALL LOADS ARE CUTOVER TO NEW SERVICE. NO LOCALIZED BUILDING OUTAGE SHALL EXCEED 1 DAY. SEE SPECIFICATION SECTION 26 00 00 FOR DETAILED SEQUENCING.
4. BREAKER MODELS SHOWN ARE TYPICAL FOR EATON (BASIS OF DESIGN). ACTUAL BREAKERS SHALL MEET ALL SPECIFICATIONS.

SWITCHGEAR REPLACEMENT WORK AT
ROOSEVELT COMMUNITY EDUCATION CENTER
ROCKFORD PUBLIC SCHOOL DISTRICT 205
ROCKFORD, ILLINOIS

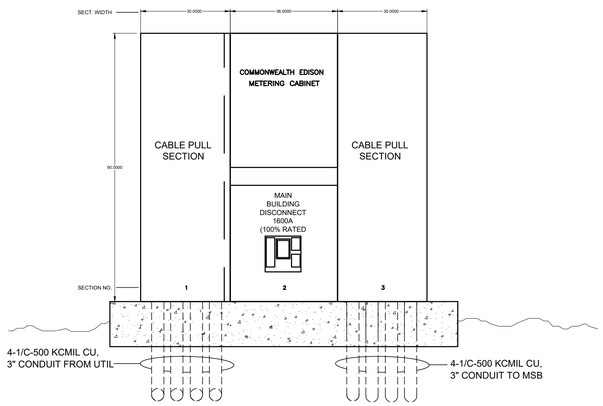
RICHARD L. JOHNSON ASSOCIATES | ARCHITECTS

SHEET IDENTIFICATION
ELECTRICAL DISTRIBUTION DIAGRAM

PROJECT INFORMATION
Date March 19, 2021
Rev. Date
RLJA Proj 2021-005

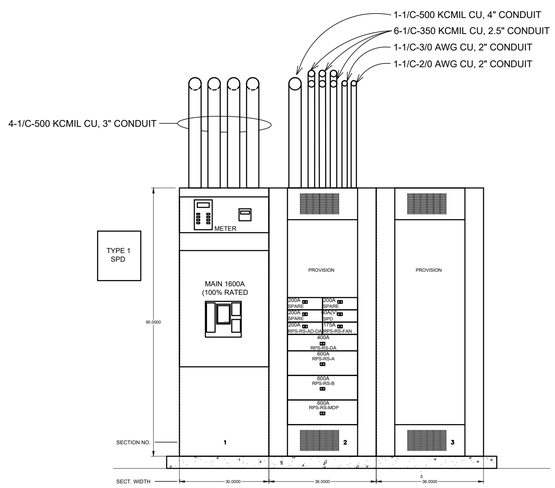
SHEET NUMBER
E103
OF
5

SYSTEMS DESIGN SERVICE engineering LLC
3600 EAST STATE STREET • SUITE 215 • ROCKFORD, ILLINOIS • 61108
PHONE (815) 399-3381 FAX (815) 399-3383 WWW.SDSEGROUP.COM
IL PROF DESIGN FIRM #184.004499



METERING SWITCHBOARD DETAIL RPS-RS-DISC

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



DISTRIBUTION SWITCHBOARD DETAIL RPS-RS-MSB

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

PANEL SCHEDULES

PANEL: RPS-RS-A

LOCATION:	ELEC RM	**VOLTAGE:**	208 /120 V	**A.I.C. RATING:**	35 kAIC
SUPPLY FROM:	UTILITY	**PHASE:**	3 PH	**MAINS TYPE:**	LSI MCB
MOUNTING:	SURFACE	**WIRE:**	4 W	**MAINS RATING:**	600 A
ENCLOSURE:	NEMA 1			**MCB RATING:**	600 A (100% RATED)

CKT	DESCRIPTION	TRIP	POLES	DEMAND CODE	A		B		C		DEMAND CODE	POLES	TRIP	DESCRIPTION	CKT
1	BOILER RM SUMP PUMP	50	1	R	3,000	2,099					G	3	30	HOT WATER CIRC PUMP	2
3	PROJECTION BOOTH	50	2	R			2,600	2,099			G				4
5				R					2,600	2,099	G				6
7	SWIMMING POOL CIRC PUMP	50	3	G	3,333	2,099					G	3	50	MOB-SWP-RP 5 HP PUMP	8
9				G			3,333	2,099			G				10
11				G					3,333	2,099	G				12
13	SOUTH PANEL D (1ST FLOOR)	100	3	G	6,666	7,450					G	3	200	POOL FAN	14
15				G			6,666	7,450			G				16
17				G					6,666	7,450	G				18
19	UNKNOWN-1	50	3	G	3,333	1,333					H	3	20	UNKNOWN-2	20
21				G			3,333	1,333			H				22
23				G					3,333	1,333	H				24
25	SPACE (PROVISION ONLY)		3									3		SPACE (PROVISION ONLY)	26
27															28
29															30
31	SPACE (PROVISION ONLY)		3									3		SPACE (PROVISION ONLY)	32
33															34
35															36
37	SPACE (PROVISION ONLY)		3									3		SPACE (PROVISION ONLY)	38
39															40
41															42
				TOTAL CONN:	29,313	VA	28,913	VA	28,913	VA					

LOAD CLASSIFICATION	DEMAND CODE		CONNECTED LOAD		DEMAND FACTOR	DEMAND	
HVAC/MECH	H		3,999	VA	80.0%	3,199	VA
RECEPTACLES	R		8,200	VA	80.0%	0	VA
LIGHTING	L		0	VA	100.0%	0	VA
GENERAL	G		74,940	VA	95.0%	71,193	VA
KITCHEN	K		0	VA	100.0%	0	VA
LARGEST MOTOR	1 HP		0	VA	125.0%	0	VA

PANEL TOTALS

TOTAL CONN. LOAD:	87,139	VA
TOTAL DEMAND LOAD:	74,392	VA
TOTAL CONN. CURRENT:	242	A
TOTAL DEMAND CURRENT:	206	A

NOTES: PROVIDE A SEPARATE GROUND BUSS. PANELS SHALL BE COPPER BUSSING WITH BOLT ON BREAKERS.

PANEL: RPS-RS-B

LOCATION:	ELEC RM	**VOLTAGE:**	208 /120 V	**A.I.C. RATING:**	35 kAIC
SUPPLY FROM:	UTILITY	**PHASE:**	3 PH	**MAINS TYPE:**	LSI MCB
MOUNTING:	SURFACE	**WIRE:**	4 W	**MAINS RATING:**	600 A
ENCLOSURE:	NEMA 1			**MCB RATING:**	600 A (100% RATED)

CKT	DESCRIPTION	TRIP	POLES	DEMAND CODE	A		B		C		DEMAND CODE	POLES	TRIP	DESCRIPTION	CKT
1	WEST WING PANEL	50	3	G	3,000	3,000					G	3	40	BOILER ROOM PANEL	2
3				G			3,000	3,000			G				4
5				G					3,000	3,000	G				6
7	SOUTH PANEL "E"	100	3	G	6,666	6,666					G	3	100	AUTO SHOP PANEL	8
9				G			6,666	6,666			G				10
11				G					6,666	6,666	G				12
13	NORTH CORRIDOR PANELS	125	3	G	7,000	13,000					G	3	200	NORTHWEST CORRIDOR PANELS	14
15				G			7,000	13,000			G				16
17				G					7,000	13,000	G				18
19	SOUTH CORRIDOR PANELS	200	3	G	13,000	13,000					L	3	200	AUDITORIUM LIGHTS	20
21				G			13,000	13,000			L				22
23				G					13,000	13,000	L				24
25	MAINT. AREA	40	3	G	3,000							3		SPACE (PROVISION ONLY)	26
27				G			3,000								28
29				G					3,000						30
31	SPARE	30	2	G	1,560							3		SPACE (PROVISION ONLY)	32
33				G			1,560								34
35	SPACE (PROVISION ONLY)		1												36
37	SPACE (PROVISION ONLY)		3									3		SPACE (PROVISION ONLY)	38
39															40
41															42
				TOTAL CONN:	69,892	VA	69,892	VA	68,332	VA					

LOAD CLASSIFICATION	DEMAND CODE		CONNECTED LOAD		DEMAND FACTOR	DEMAND	
HVAC/MECH	H		0	VA	80.0%	0	VA
RECEPTACLES	R		0	VA	80.0%	0	VA
LIGHTING	L		39,000	VA	100.0%	39,000	VA
GENERAL	G		169,116	VA	95.0%	160,660	VA
KITCHEN	K		0	VA	100.0%	0	VA
LARGEST MOTOR	1 HP		0	VA	125.0%	0	VA

PANEL TOTALS

TOTAL CONN. LOAD:	208,116	VA
TOTAL DEMAND LOAD:	199,660	VA
TOTAL CONN. CURRENT:	578	A
TOTAL DEMAND CURRENT:	554	A

NOTES: PROVIDE A SEPARATE GROUND BUSS. PANELS SHALL BE COPPER BUSSING WITH BOLT ON BREAKERS.

SYSTEMS DESIGN SERVICE ENGINEERING LLP
3600 EAST STATE STREET • SUITE 215 • ROCKFORD, ILLINOIS • 61108
PHONE (815) 399-3381 FAX (815) 399-3383 WWW.SDSEGROUP.COM
IL PROF DESIGN FIRM #184.004999

SWITCHGEAR REPLACEMENT WORK AT
ROOSEVELT COMMUNITY EDUCATION CENTER
ROCKFORD PUBLIC SCHOOL DISTRICT 205
ROCKFORD, ILLINOIS

RICHARD L. JOHNSON ASSOCIATES | ARCHITECTS

SHEET IDENTIFICATION
ELECTRICAL PANEL SCHEDULES & SWITCHBOARD DETAILS

PROJECT INFORMATION

Date	March 19, 2021
Rev. Date	
RLJA Proj	2021-005

SHEET NUMBER
E104
OF
5

PRESENT EQUIPMENT AND DEMOLITION NOTES

A. FOLLOWING REMOVED PRESENT EQUIPMENT AND MATERIALS WHICH ARE IN GOOD OPERATING CONDITION (OR ARE PLACED IN GOOD CONDITION), SUITABLE, MEET REQUIREMENTS OF THESE SPECIFICATIONS, AND ARE APPROVED IN WRITING BY ENGINEER, OR CALLED FOR MAY BE REUSED (PXN-PN).
1. LIGHTING FIXTURES

B. REMOVED PIPE AND WIRE MUST NOT BE REUSED.

C. ANY OF ABOVE EQUIPMENT WHICH IS NOT REUSED AND FOLLOWING REMOVED PRESENT EQUIPMENT SHALL BECOME PROPERTY OF CONTRACTOR, AND SHALL BE REMOVED FROM PREMISES BY HIM (PX).
1. EQUIPMENT SO DESIGNATED ON DRAWINGS.

D. FOLLOWING PRESENT EQUIPMENT SHALL BE CAREFULLY REMOVED, INTACT, MATCH MARKED, INSOFAR AS IS PRACTICAL, SHALL REMAIN PROPERTY OF OWNER, AND SHALL BE DELIVERED TO OWNER OUTSIDE OF BUILDING WHERE DIRECTED BY THE ENGINEER (PX-DO).
1. EQUIPMENT SO DESIGNATED ON DRAWINGS.

E. CONTRACTOR SHALL:
1. PROVIDE NEW FLOORS UNDER REMOVED PRESENT EQUIPMENT AND WHERE CALLED FOR
2. REPAIR FLOORS UNDER AND WALLS ADJACENT TO REMOVED EQUIPMENT, TO MATCH ADJACENT CONSTRUCTION.
3. FILL IN PRESENT CHASES WHICH ARE NO LONGER REQUIRED AND NEATLY PATCH TO MATCH ADJACENT CONSTRUCTION.
4. CUT OPENINGS REQUIRED FOR:
   A. HIS WORK;
   B. ADMISSION OF NEW EQUIPMENT;
   C. REMOVAL OF PRESENT EQUIPMENT;
   D. NEW CONNECTION TO PRESENT CONSTRUCTION.
5. PATCH AND REPAIR UNUSED PRESENT HOLES AND OPENINGS, AND THOSE LEFT BY THE REMOVAL OF PRESENT EQUIPMENT AND ADMISSION OF NEW EQUIPMENT.
6. PATCH AND REPAIR PRESENT EQUIPMENT, AND BUILDING CONSTRUCTION WHICH HAS NOT BEEN CUT, REMOVED, DISTURBED OR MARRED, AS REQUIRED, TO RESTORE IT TO ORIGINAL CONDITION BEFORE BEING DISTURBED.

F. UNUSED OPENINGS IN ENCLOSURES, IN CONDUITS, BOXES, CABINETS, AND PANELS SHALL BE FILLED.

G. PRESENT PAINTED CONSTRUCTION WHICH IS MARRED SHALL BE REPAIRED SAME AS NEW CONSTRUCTION.

H. CERTAIN ABBREVIATIONS OR SYMBOLS, WHEN APPLIED TO PRESENT (TO EXISTING) LINE, DEVICE OR EQUIPMENT, SHALL HAVE THE FOLLOWING MEANINGS.

NC — NEW CONNECTIONS TO PRESENT PIPING, DEVICE WIRING, EQUIPMENT, ETC. INSTALL, TEST, COVER, PAINT, ETC., SAME AS NEW WORK.

P — TO REMAIN UNCHANGED, IF CHANGE CANNOT BE AVOIDED, CHANGE "P" TO "PXR", AT NO INCREASE IN CONTRACT PRICE. VERIFY LOCATION.

PX — TO BE COMPLETELY REMOVED, INCLUDING UNNEEDED CONNECTIONS, PIPING, DUCTS, WIRING, BASES, ETC., OF EVERY KIND. UNUSED OPENINGS PLUGGED OR CAPPED, TESTED, COVERED, PAINTED SAME AS NEW WORK. OTHER DISTURBED WORK OF EVERY KIND RESTORED, PATCHED, TESTED, COVERED, PAINTED, ETC., TO EQUAL ORIGINAL CONDITION. REMOVED MATERIAL MUST NOT BE REUSED UNLESS OTHERWISE SPECIFIED OR DIRECTED BY ENGINEER.

PX-DO — SAME AS "PX", EXCEPT REMOVED, CLEANED AND RESTORED INTACT, AS FAR AS PRACTICAL, MATCHED MARKED, AND OTHERWISE IDENTIFIED AS REQUIRED AND DELIVERED TO OWNER OUTSIDE OF BUILDING AS DIRECTED BY ENGINEER.

PXR — SAME AS "PX", EXCEPT REMOVED, CLEANED AND RESTORED TO GOOD OPERATING CONDITION AND REINSTALLED, SAME AS NEW WORK, IN ORIGINAL POSITION. IF RECONDITIONING IS IMPRACTICAL, PROVIDE NEW DEVICE, AS APPROVED BY ENGINEER, AT NO INCREASE IN CONTRACT PRICE.

PXN ETC. — SAME AS "PXR" EXCEPT REMOVED, CLEANED AND RESTORED TO GOOD OPERATING CONDITION AND REINSTALLED SAME AS NEW WORK, IN NEW POSITION MARKED "PN". IF RECONDITIONING IS IMPRACTICAL, PROVIDE NEW DEVICE, AS APPROVED BY ENGINEER, AT NO INCREASE IN CONTRACT PRICE.

PN ETC. — COMPLETELY REINSTALL DEVICE, LINE OR EQUIPMENT REMOVED, AT NEW LOCATION, SAME, AS NEW WORK.

I. WORK OF EVERY DIVISION SHALL BE COORDINATED WITH ALL OTHER WORK AND PRESENT CONDITIONS, SO THAT
1. ELECTRICAL SERVICES TO PRESENT BUILDINGS OR PORTIONS OF BUILDING WILL NOT BE INTERRUPTED DURING PERIODS WHEN THOSE SERVICES ARE NEEDED.
2. SPECIAL SYSTEMS SUCH AS FIRE ALARM, SOUND, ETC., OF EVERY KIND TO PRESENT BUILDINGS WILL NOT BE INTERRUPTED DURING WORKING AND/OR OCCUPIED HOURS, EXCEPT AS APPROVED BY ENGINEER.

J. NEW CONDUIT SERVING NEW AND/OR PRESENT ELECTRICAL DEVICES IN FINISHED PRESENT ROOMS OR SPACES SHALL BE CONCEALED IN FINISHED ROOMS, WHERE POSSIBLE OR SHALL BE RUN IN ADJOINING UNFINISHED ROOMS, SHAFTS, STORAGE ROOMS, ETC., WHERE EXPOSED CONDUIT IS PERMITTED IN FINISHED PRESENT ROOMS BY ARCHITECT IN WRITING, IT SHALL BE WIREMOLD, WITH MATCHING BOXES, RUN INCONSPICUOUSLY AS POSSIBLE, IN STRAIGHT LINES, PARALLEL TO WALLS AND CEILINGS, WITH NEAT BENDS, UNNEEDED BOXES, SWITCHES AND WIRING SHALL BE COMPLETELY REMOVED AND OPENINGS PATCHED. IN PRESENT ROOMS OR LOCATIONS WHERE NEW LIGHTING EQUIPMENT IS SHOWN. PRESENT FIXTURES, BOXES, WIRING, SWITCHES, ETC. SHALL BE REMOVED AS PER NOTE "PX" UNLESS ANOTHER SYMBOL IS SHOWN ON DRAWINGS. WHERE SPECIFICALLY APPROVED BY ARCHITECT IN WRITING, BOXES MAY BE PERMITTED TO REMAIN AND BE PROVIDED WITH NEAT FLUSH COVERS, EXTENDING OVER ENTIRE WALL OPENING.

K. UNNEEDED ELECTRICAL FIXTURES, SWITCHES, STARTERS, DEVICES, ETC., SHALL BE COMPLETELY REMOVED; AND CONSTRUCTION PATCHED AS PER NOTE "PX" NEW CONNECTIONS TO PRESENT EQUIPMENT, SHALL BE MADE, TESTED, COVERED, PAINTED, ETC., SAME AS NEW EQUIPMENT. PRESENT EQUIPMENT, AND OTHER COVERING DISTURBED BY CONTRACTOR SHALL BE REPAIRED TO EQUAL NEW CONDITION AND PAINTED SAME AS NEW COVERING.

L. WHERE DEVICES ARE OMITTED FROM PRESENT BRANCH CIRCUITS, THE REMAINING DEVICES, ON THE SAME CIRCUIT AND/OR CONDUIT RUN, SHALL BE REWIRED, IF NEEDED AND AS REQUIRED, TO REMAIN ON THEIR RESPECTIVE CIRCUITS AND IN OPERATING CONDITION.

M. LIGHTING FIXTURES WHICH ARE REUSED SHALL HAVE LENS AND REFLECTORS CLEANED. ALL FIXTURES SHALL BE PROVIDED WITH NEW LAMPS.

N. WORK SHALL BE COORDINATED SO THAT HEATING, PLUMBING, ELECTRICAL, AND TELEPHONE SERVICES TO THE PRESENT BUILDING WILL NOT BE INTERRUPTED, EXCEPT AS APPROVED BY THE ARCHITECT.

ELECTRICAL SYMBOLS

F1@#a — NUMBER=CIRCUIT, LETTER=SWITCH, F1,F2,F3=FIXTURE SEE SPECIFICATIONS AND FIXTURE SCHEDULE

- RECESSED CEILING FIXTURE (>=WALL WASHER)
- SURFACE OR PENDANT CEILING FIXTURE
- BRACKET FIXTURE
- RECESSED LED FIXTURE
- SURFACE OR PENDANT LED FIXTURE
- WALL LED FIXTURE (VERIFY HEIGHT)
- BRACKET EXIT LIGHT } DIRECTIONAL ARROW
- CEILING EXIT LIGHT } DIRECTIONAL ARROW
- LIGHT TRACK
- EXTERIOR POLE FIXTURE
- BOLLARD FIXTURE
- EL — BATTERY EMERGENCY FIXTURE (R=REMOTE HEAD)

- SINGLE POLE SWITCH
- 3 — THREE WAY SWITCH
- 4 — FOUR WAY SWITCH
- P — SWITCH WITH PILOT LIGHT
- K — KEY OPERATED SWITCH
- OS — OCCUPANCY SENSOR SWITCH (EQUAL TO LEVITON DECORA INFRARED ODS15-ID,UNO)
- DIMMER CONTROL SWITCH
- SWITCH WITH GROUNDED DUPLEX RECEPTACLE
- REMOTE CONTROL SWITCH OR PUSH BUTTON

(P, 4, K, OS, DIMMER, SWITCH WITH GROUNDED DUPLEX RECEPTACLE, REMOTE CONTROL SWITCH OR PUSH BUTTON: UP 4'-0", UNLESS NOTED OTHERWISE)

- GROUNDED DUPLEX RECEPTACLE
- GROUNDED DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER HEIGHT
- GROUNDED DUPLEX GFCI RECEPTACLE
- GROUNDED DUPLEX GFCI RECEPTACLE MOUNTED ABOVE COUNTER HEIGHT
- GROUNDED SINGLE RECEPTACLE
- SPECIAL GROUNDED RECEPTACLE, SIZE AND TYPE AS SPECIFIED
- GROUNDED FLUSH FLOOR RECEPTACLE
- WM — PLUGMOLD (VERIFY TYPE AND MOUNTING)
- P D/T — POWER, DATA AND TELEPHONE FLUSH FLOOR BOX WITH COVER. PROVIDE EMPTY CONDUIT FOR DATA/TELEPHONE TO ABOVE SUSPENDED CEILING AS REQUIRED. SEE LOW VOLTAGE CONDUIT SIZING TABLE. (VERIFY)
- OUTLET WITH FINAL CONNECTIONS TO EQUIPMENT. EQUIPMENT FURNISHED BY OTHERS (FBO). PROVIDE NECESSARY RECEPTACLE, SAFETY SWITCH, WIRING ETC. FOR COMPLETE INSTALLATION VERIFY EXACT LOCATION AND HEIGHT BEFORE ROUGH-IN.

- CEILING JUNCTION BOX } WITH FLUSH COVER
- WALL JUNCTION BOX } WITH FLUSH COVER
- F — SAFETY SWITCH (F=FUSED)
- SURFACE ELECTRICAL PANELBOARD
- RECESSED ELECTRICAL PANELBOARD
- M — MOTOR CONTROLLER
- R — CONTROL RELAY (LETTER=FLOOR, NUMBER=NO. OF RELAY)
- T — TRANSFORMER

(CONDUIT RUN CONCEALED (OR PARTIALLY CONCEALED) IN CEILINGS OR WALLS; CONDUIT RUN CONCEALED IN OR UNDER FLOORS; CONDUIT RUN EXPOSED, IN STRAIGHT LINES; CONDUIT RUN UNDERGROUND; EMERGENCY WIRING, IN CONDUIT, CONCEALED; HOMERUN TO PANEL, IN CONDUIT, CONCEALED; ARROWS INDICATE NUMBER OF CIRCUITS — CHARACTER MARKS= NUMBER OF WIRES, IF NONE ARE SHOWN TWO ARE REQUIRED)

- CONDUIT RUN CONCEALED (OR PARTIALLY CONCEALED) IN CEILINGS OR WALLS
- CONDUIT RUN CONCEALED IN OR UNDER FLOORS
- X — CONDUIT RUN EXPOSED, IN STRAIGHT LINES
- U — CONDUIT RUN UNDERGROUND
- E — EMERGENCY WIRING, IN CONDUIT, CONCEALED
- HOMERUN TO PANEL, IN CONDUIT, CONCEALED; ARROWS INDICATE NUMBER OF CIRCUITS

(T — TELEPHONE CONDUIT RUN ABOVE CEILINGS OR IN WALLS; T — TELEPHONE CONDUIT RUN IN OR UNDER FLOORS — EMPTY CONDUIT, CONCEALED)

- T — TELEPHONE CONDUIT RUN ABOVE CEILINGS OR IN WALLS
- T — TELEPHONE CONDUIT RUN IN OR UNDER FLOORS

- TELECOMMUNICATIONS OUTLET

NOTES:

ELECTRICAL OUTLET BOXES INSTALLED IN FIRE RATED ASSEMBLIES SHALL COMPLY WITH LATEST IBC, SECTION 712 (NOT LESS THAN 24" O.C.)

ELECTRICAL DEVICES INSTALLED IN ACCORDANCE WITH ADA SPECIFICATIONS. VERIFY HEIGHTS AND SPECIFIC DIMENSIONS.

ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY LIGHTING CONTROLS AS TO COMPLY WITH LOCAL ENERGY CODE REQUIREMENTS. ENERGY MANGAGEMENT PRODUCTS SHALL BE EQUAL TO SENSORSWITCH. E.C. TO DETERMINE IF WALL OR CEILING OCCUPANCY DEVICE TYPE IS REQUIRED BASED ON PROJECT DESIGN AND IDEAL USE OF DEVICE. PROVIDE CONTROL DEVICE WITH SUITABLE FEATURES FOR INSTALLATION LOCATIONS OF THE CONTROL DEVICES REQUIRED FOR ENERGY CODE COMPLIANCE.

ELECTRICAL ABBREVIATIONS

AC	ABOVE COUNTER	HP	HORSEPOWER
AFF	ABOVE FINISHED FLOOR	IWS	IN WALL SPACE
ASC	ABOVE SUSPENDED CEILING	JB	JUNCTION BOX
C	CONDUIT	KW	KILOWATTS
CF	CARPET FLANGE	LTG	LIGHTING
CTC	CLOSE TO CEILING	MAX	MAXIMUM
CTF	CLOSE TO FLOOR	MFG	MANUFACTURER
CTW	CLOSE TO WALL	MIN	MINIMUM
E	EMERGENCY	MOB	MOTOR OUTLET BOX
EBBC	ELECTRIC BASEBOARD CONVECTOR	MTD	MOUNTED
		NEC	NATIONAL ELECTRICAL CODE
EDH	ELECTRIC DUCT HEATER	NL	NIGHT LIGHT
ESUH	ELECTRIC SUSPENDED UNIT HEATER	OS	OCCUPANCY SENSING DEVICE
		PH	PHASE (Ø)
EWC	ELECTRIC WATER COOLER	PNL	PANEL
EWH	ELECTRIC WATER HEATER	SW	SWITCH
FAAP	FIRE ALARM ANNUNCIATOR PANEL	TFA	TO FLOOR ABOVE
FACP	FIRE ALARM CONTROL PANEL	TFB	TO FLOOR BELOW
FBO	FURNISHED BY OTHERS	TTC	TELEPHONE TERMINAL CABINET
FFA	FROM FLOOR ABOVE	UNO	UNLESS NOTED OTHERWISE
FFB	FROM FLOOR BELOW	V	VOLTS
FLA	FULL LOAD AMPS	W	WIRE
GFI	GROUND FAULT INTERRUPTER	WP	WEATHER PROOF

FIRE ALARM SYSTEM SYMBOLS

- FACP — EXISTING FIRE ALARM CONTROL PANEL SIMPLEX
- F — FIRE ALARM SYSTEM WIRING IN CONDUIT, CONCEALED WHERE POSSIBLE
- SD — FIRE ALARM SYSTEM CEILING MOUNTED SMOKE DETECTOR

FIRE ALARM SYSTEM NOTES:

FIRE ALARM SYSTEM SHALL BE INSTALLED AND WIRED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS. CONTRACTOR SHALL PROVIDE IN SHOP DRAWINGS THE FINAL WIRING SCHEMATIC & ZONE SCHEDULE & BATTERY CALC'S AS REQUIRED.

E.C. TO VERIFY ALL LOCAL REQUIREMENTS WITH LOCAL AUTHORITY PRIOR TO SUBMITTING FINAL BID TO INCLUDE ALL NECESSARY MATERIALS REQUIRED FOR A COMPLETE SYSTEM. ELECTRICAL CONTRACTOR TO INCLUDE ALL NECESSARY LABOR AND MATERIALS REQUIRED FOR FIRE ALARM SYSTEM EXPANSION. ALL LABOR AND MATERIALS SHALL BE INCLUDED IN FINAL BID. COORDINATE WITH THE LOCAL AUTHORITY PRIOR TO SUBMITTING FINAL BIDS TO INCLUDE ALL MATERIAL AND LABOR.

ALL CANDELA INTENSITIES SHALL BE FIELD ADJUSTED PER NFPA 72 SECTION 7.5. (TYPICAL).

ALL NEW ALARM DEVICES SHALL MEET ALL NFPA AND A.D.A OPERATION AND MOUNTING REQUIREMENTS.

ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS FINAL BID ANY ADDITIONAL COMPONENTS REQUIRED FOR NEW DEVICES TO BE TIED INTO THE EXISTING FACP AS REQUIRED. ALL FIRE ALARM SYSTEM EXPANSION WORK SHALL BE FIELD VERIFIED AND ALL LABOR AND MATERIALS SHALL BE INCLUDED IN THE FINAL SUBMITTED BID. PROVIDE ALL REQUIRED DEVICES REQUIRED FOR CONNECTION TO EXISTING FACP. BID SHALL INCLUDE ALL LABOR AND RELATED EQUIPMENT REQUIRED FOR CONNECTION.

FIRE ALARM SYSTEM SPECIFICATIONS

GENERAL
A. CONTRACTOR SHALL FIELD VERIFY EXISTING FACP AND PROVIDE A FULLY FUNCTIONAL ALARM SYSTEM WITH NEW DEVICES AS INDICATED ON PLAN.
B. THE CONTRACTOR SHALL PROVIDE ALL WIRING AND SYSTEM EXPANSION AS REQUIRED TO COMPLETE WORK, INCLUDING, BUT NOT LIMITED TO: INSTALLATION AND RE-WIRING OF ANY SMOKE AND HEAT DETECTORS, INSTALLATION AND WIRING OF ALL VISUAL AND AUDIBLE NOTIFICATION APPLIANCES, ADDITIONAL NAC POWER DEVICES FOR NAC CIRCUITS AS REQUIRED, ADDITIONAL EXPANSION CARDS OR SOFTWARE PROGRAMMING FOR THE EXISTING FACP TO PROVIDE THE ADDITIONAL ZONING FOR THE ALTERATIONS, AND SYSTEM TESTING/VERIFICATION.
C. THE INSTALLATION SHALL CONFORM TO NFPA 72, STATE AND LOCAL CODES AS WELL AS THOSE AUTHORITIES HAVING JURISDICTION.

PRODUCTS
A. EXISTING FIRE ALARM SYSTEM CONTROL PANEL
   1. EXISTING FACP MANUF/MODEL: SIMPLEX 4100
   2. ANNUNCIATION: OPERATION OF ALARM INITIATING DEVICES SHALL BE ANNUNCIATED AT THE FACP, THE FAAP, AND ALL REMOTE ANNUNCIATORS, INDICATING THE LOCATION AND TYPE OF DEVICE AT THE FACP.
B. SMOKE AND HEAT DETECTORS
   1. DETECTORS SHALL MEET THE REQUIREMENTS OF THE ADA (AMERICANS WITH DISABILITIES ACT) AS WELL AS UL STANDARD 1971.

EXECUTION
A. ELECTRICAL CONTRACTOR TO COMPLETELY WIRE AND RE-PROGRAM SYSTEM AS REQUIRED.
B. GENERAL ALARM: A SYSTEM GENERAL ALARM SHALL INCLUDE:
   1. INDICATION OF ALARM CONDITION AT THE FACP AND ANY REQUIRED REMOTE ANNUNCIATOR(S).
   2. IDENTIFICATION OF THE DEVICE THAT IS THE SOURCE OF THE ALARM AT THE FACP AND ANY REQUIRE REMOTE ANNUNCIATOR(S).
   3. OPERATION OF AUDIBLE AND VISIBLE NOTIFICATION APPLIANCES THROUGHOUT THE BUILDING UNTIL SILENCED AT FACP. AUDIBLE AND VISUAL ALARM NOTIFICATION SHALL OPERATE UNDER SYNCHRONIZE TEMPORAL CODE.
   4. UNLOCKING DESIGNATED DOORS.
   5. SHUTTING DOWN SUPPLY AND RETURN FANS SERVING ZONE WHERE ALARM IS INITIATED.
   6. INITIATION OF SMOKE CONTROL SEQUENCE.
      a. NOTIFYING THE LOCAL FIRE DEPARTMENT.
   7. ALL CIRCUITS REQUIRING SYSTEM-OPERATING POWER SHALL BE 24 VDC AND SHALL BE INDIVIDUALLY FUSED AT THE CONTROL PANEL.
C. AN UPDATED, TYPED DEVICE DIRECTORY, IDENTIFYING EACH INDIVIDUAL SLC/NAC CIRCUIT, ZONES AND DEVICE CODES SHALL BE PROVIDED FOR THE FACP.

LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	LAMP SIZE AND TYPE	MOUNTING	MANUFACTURER'S NUMBER	REMARKS
A1	80 CRI L.E.D., 4000K LP840, 10,000 LUMENS (81 WATTS)	PENDANT MOUNTED TO CEILING (VERIFY)	LITHONIA NO. TZL1D-L96-10000LM-FST-MVOLT-40K-80CRI-E15WLCP-LBOZU-WH-SQ*. *=PROVIDE MOUNTING ACCESSORIES AS REQUIRED FOR INSTALL.	2.2"W X 96"L PENDANT MOUNTED LED FIXTURE WITH FROSTED DIFFUSER LENS, MULTI-VOLT LED DRIVER WITH INTEGRAL EMERGENCY BATTERY AND OCCUPANCY SENSOR.
B1	80 CRI L.E.D., 4000K LP840, 4800 LUMENS (37 WATTS)	RECESSED IN GRID CEILING (VERIFY)	LITHONIA NO. EPANL-2X2-48LM-80CRI-40K-MIN1	2' X 2' LED RECESSED EDGE-LIT FLAT PANEL WITH SATIN WHITE ACRYLIC LENS, MULTI-VOLT, LED 0-10V DIMMING DRIVER.

NOTES:

EMERGENCY BATTERIES SHALL PROVIDE A MINIMUM OF 90 MINUTES ILLUMINATION UPON POWER LOSS.

PROVIDE UL APPROVED LUMINAIRE DISCONNECT FOR EACH LIGHT FIXTURE PER NEC REQUIREMENTS EFFECTIVE JANUARY 1, 2008. E.C. TO COMPLY AS REQUIRED.

THE FIXTURE SCHEDULE DOES NOT NECESSARILY LIST ALL ACCESSORIES AND HARDWARE NECESSARY FOR THE COMPLETION OF INSTALLATION, NOR DOES IT DETAIL THE CEILING CONSTRUCTION TO BE ENCOUNTERED FOR THIS PROJECT. IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO PROPERLY DETERMINE AND PROVIDE THE CORRECT COMPONENTS, ACCESSORIES AND HARDWARE AS REQUIRED FOR THE INSTALLATION. ALL ADDITIONAL HARDWARE FOR MOUNTING FIXTURES SHALL BE PROVIDED AT NO EXTRA COST.

GENERAL NOTES APPLY TO ALL SHEETS

SEE DETAILS AND SCHEDULES ON DRAWINGS AND SPECIFICATIONS FOR MEANING OF ABBREVIATIONS AND ADDITIONAL REQUIREMENTS AND INFORMATION. CHECK ARCHITECTURAL, STRUCTURAL, AND OTHER MECHANICAL AND ELECTRICAL DRAWINGS FOR SCALE, SPACE LIMITATIONS, BEAMS, DOOR SWINGS, WINDOWS, COORDINATION, ADDITIONAL INFORMATION, ETC. AND REPORT ANY DESCREPANCIES, CONFLICTS, ETC. TO ARCHITECT PRIOR TO SUBMITTING BID.

ALL EQUIPMENT FURNISHED BY OTHERS (FBO) SHALL BE PROVIDED WITH PROPER MOTOR STARTERS, DISCONNECTS, CONTROLS, ETC. BY THE ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND COMPLETELY WIRE ALL ASSOCIATED EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S WIRING DIAGRAMS AND AS REQUIRED FOR A COMPLETE OPERATING INSTALLATION. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF (FBO) EQUIPMENT PRIOR TO ROUGH-IN OF CONDUIT AND WIRING TO AVOID CONFLICTS.

CONTRACTOR SHALL VERIFY FINAL LOCATIONS AND CEILING TYPES FOR ALL ELECTRICAL EQUIPMENT WITH ARCHITECTURAL REFLECTED CEILING PLAN AND ALL TRADES BEFORE ORDERING OR ROUGH-IN OF EQUIPMENT TO AVOID CONFLICTS.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING, INCLUDING CORE DRILLING, SAW CUTTING, ETC., AS REQUIRED TO ACCOMMODATE HIS WORK. CUTTING AND PATCHING AND PAYMENT OF SAID WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR REQUIRING THE DISTURBANCE BUT SAME SHALL BE DONE BY A GENERAL CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE APPROPRIATE ELECTRICAL CONTRACTOR TO GIVE QUANTITIES OF PATCHING REQUIREMENTS TO A GENERAL CONTRACTOR.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF PRESENT CEILINGS, LIGHT FIXTURES, DIFFUSERS, DUCTWORK, PIPING, CONDUIT, ETC., AS REQUIRED FOR THE INSTALLATION OF HIS WORK. REMOVAL, REPLACEMENT AND PAYMENT FOR MECHANICAL/PLUMBING ITEMS SHALL BE THE RESPONSIBILITY OF THE APPLICABLE ELECTRICAL CONTRACTOR. REMOVAL AND REPLACEMENT OF PRESENT CEILINGS, ETC., SHALL BE THE RESPONSIBILITY OF CONTRACTOR MAKING THE DISTURBANCE BUT SAME SHALL BE DONE BY A GENERAL CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE APPROPRIATE ELECTRICAL CONTRACTOR TO GIVE QUANTITIES OF REMOVAL/REPLACEMENT REQUIREMENTS TO A GENERAL CONTRACTOR.

ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR LEGALLY DISPOSING OF ALL FIXTURE BALLASTS AND LAMPS FROM THE OWNER'S PROPERTY. MANAGEMENT AND DISPOSAL OF FLUORESCENT LIGHT BULBS AND OTHER MERCURY-CONTAINING BULBS SHALL COMPLY WITH THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) UNIVERSAL WASTE RULE (UWR) AND SUBTITLE C HAZARDOUS WASTE REGULATIONS. REFER TO SPECIFICATIONS SECTION 017419 FOR ADDITIONAL INFORMATION.

ELECTRICAL COORDINATION NOTE

THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS ASSOCIATED WITH ALL OTHER TRADES THAT INVOLVE THE ELECTRICAL CONTRACTOR TO PROVIDE POWER WIRING FOR DEVICES AND SYSTEMS PROVIDED BY OTHER TRADES. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ASPECTS OF WORK RELATED TO THESE SYSTEMS AND DEVICES PRIOR TO SUBMITTING FINAL BID, INCLUDE ALL NECESSARY LABOR AND MATERIALS ASSOCIATED WITH OTHER TRADES AS REQUIRED FOR COMPLETE OPERATIONAL SYSTEMS THAT REQUIRE THE ELECTRICAL CONTRACTOR TO WIRE.

GENERAL DEMOLITION NOTE

FOR ALL WALLS, CEILINGS, FLOORS, ETC. REQUIRED FOR CONSTRUCTION DEMOLITION WORK OR NEW CONSTRUCTION WORK, INCLUDING, BUT NOT LIMITED TO ITEMS SHOWN REMOVE (PX) AND/OR REMOVE AND RELOCATE (PXN-PN); ALL ELECTRICAL EQUIPMENT, DEVICES, BOXES, CONDUIT, WIRING, ETC., AS REQUIRED, FOR DEMOLITION OF PRESENT CONSTRUCTION AND TO AVOID INTERFERENCE WITH NEW CONSTRUCTION. (VERIFY BEFORE BIDDING TO INCLUDE ALL NECESSARY MATERIALS AND LABOR)

EXISTING PANELBOARD NOTES

ELECTRICAL CONTRACTOR SHALL FIELD VERIFY USE OF EXISTING BRANCH CIRCUITS BEING REUSED FOR NEW. UPDATE ALL PANEL SCHEDULES AS REQUIRED. REWORK BRANCH CIRCUITS INDICATED IF NEEDED TO ACCOMMODATE NEW ELECTRICAL DEVICES. TYPICAL FOR ANY EXISTING PANELS BEING REVISED.

SYSTEMS DESIGN SERVICE ENGINEERING LLP
3600 EAST STATE STREET • SUITE 215 • ROCKFORD, ILLINOIS • 61108
PHONE (815) 399-3381 FAX (815) 399-3383 WWW.SDSEGROUP.COM
IL PROF DESIGN FIRM #184.004499

SWITCHGEAR REPLACEMENT WORK AT ROOSEVELT COMMUNITY EDUCATION CENTER
ROCKFORD PUBLIC SCHOOL DISTRICT 205
ROCKFORD, ILLINOIS

RICHARD L. JOHNSON ASSOCIATES | ARCHITECTS

SHEET IDENTIFICATION
ELECTRICAL SYMBOLS, NOTES, ABBREVIATIONS AND LIGHTING FIXTURE SCHEDULE

PROJECT INFORMATION
Date: March 19, 2021
Rev. Date:
RLJA Proj: 2021-005

SHEET NUMBER
E105
OF
5