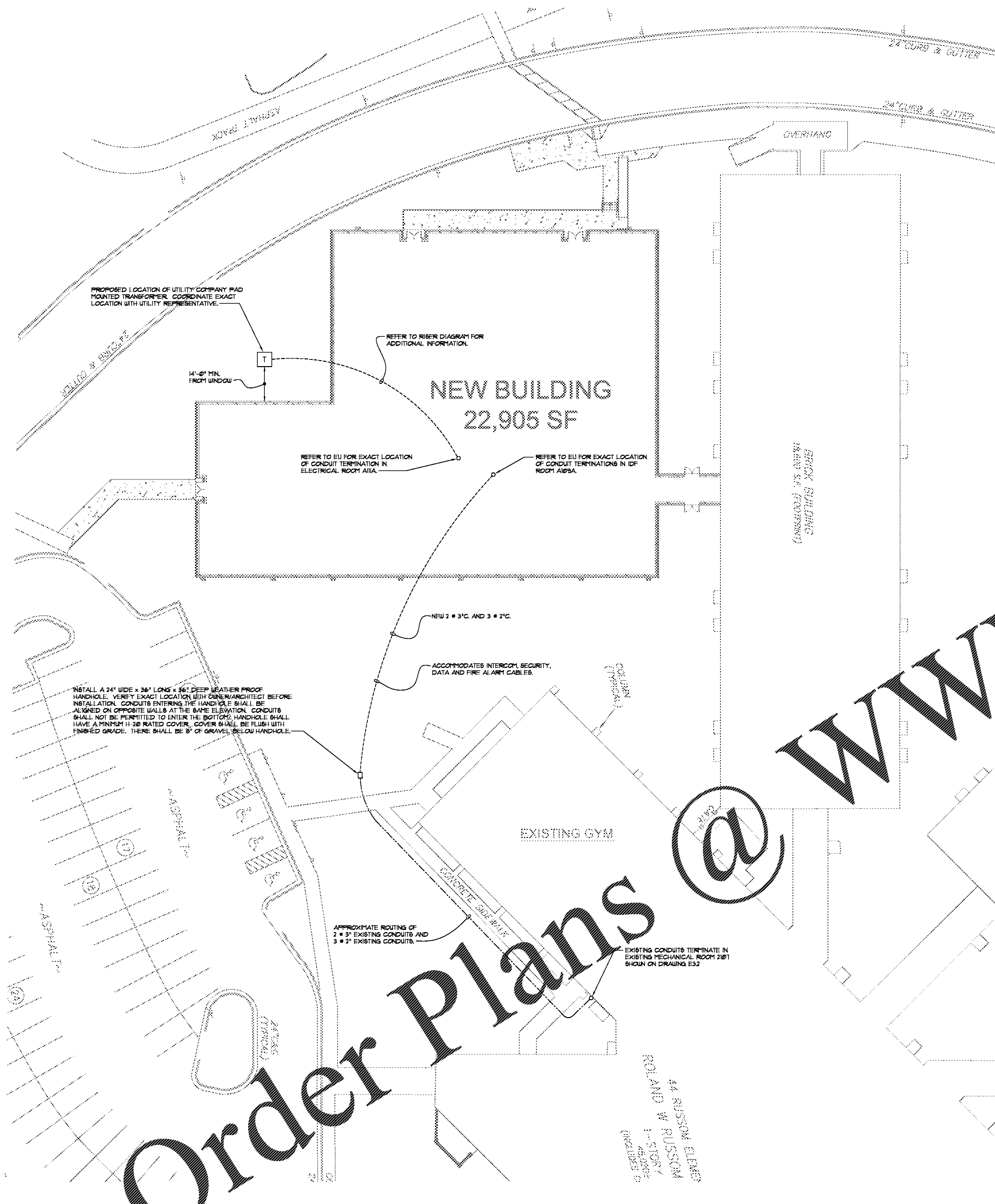


1 E0.1 SITE PLAN - ELECTRICAL
SCALE: 1" = 20'-0"

GENERAL ELECTRICAL NOTES:

A. MECHANICAL EQUIPMENT LOCATIONS SHOWN ON ELECTRICAL DRAWINGS ARE APPROXIMATE. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF EACH UNIT.

B. CONTRACTOR PROPOSING TO UNDERTAKE WORK UNDER THIS DIVISION SHALL VISIT THE SITE OF THE WORK AND FULLY INFORM THEMSELVES OF ALL CONDITIONS THAT EFFECT THE WORK OR COST THEREOF, AND EXAMINE THE DRAWINGS AS RELATED TO THE SITE CONDITIONS, PRIOR TO SUBMITTING HIS PROPOSAL FOR WORK.

C. CONSIDERATION WILL NOT BE GRANTED FOR ANY ALLEGED MISUNDERSTANDING OF THE AMOUNT OF WORK TO BE PERFORMED. TENDER OF PROPOSAL SHALL CONVEY FULL AGREEMENT TO THE ITEMS AND CONDITIONS INDICATED ON THE DRAWINGS. SHOULD THE CONTRACTOR FIND DISCREPANCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS OR BE IN DOUBT AS TO THE INTENT THEREOF, HE SHALL IMMEDIATELY OBTAIN CLARIFICATION FROM THE ENGINEER AND/OR OWNER'S REPRESENTATIVE PRIOR TO SUBMITTING HIS PROPOSAL FOR WORK.

D. THIS CONTRACTOR SHALL VERIFY EXACT NAMEPLATE DATA ON ALL EQUIPMENT FURNISHED UNDER OTHER DIVISIONS AND/OR BY THE OWNER (I.E., HVAC EQUIPMENT, ETC.) PRIOR TO THE INSTALLATION OF ELECTRICAL WORK AND MAKE ANY ADJUSTMENTS TO OUTLETS, CONDUIT, WIRE, AND/OR CIRCUIT BREAKER AS REQUIRED TO MATCH EQUIPMENT ACTUALLY FURNISHED.

E. ALL WALL MOUNTED DEVICES SHALL BE FLUSH MOUNTED EXCEPT WHERE SHOWN ON AN EXISTING POURED WALL.

F. MANUFACTURED WIRING SYSTEM (RELOC) WILL NOT BE ALLOWED ON THIS PROJECT.

G. ALL NEW FEEDERS SHALL BE PROPERLY TORQUED. CONTRACTOR SHALL PROVIDE SIGNED AFFIDAVIT VERIFYING COMPLETION OF THIS PROCESS.

H. CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF ALL DUCT MOUNTED SMOKE DETECTORS. DUCT MOUNTED SMOKE DETECTORS SHALL BE FURNISHED BY DIVISION 26, INSTALLED BY DIVISION 23, AND WIRED BY DIVISION 26. ALL EXISTING DUCT MOUNTED SMOKE DETECTORS, WHETHER SHOWN OR NOT, SHALL BE REPLACED WITH NEW UNITS.

J. THE OPERABLE PART OF EACH MANUAL PULL STATION SHALL NOT BE LESS THAN 42" AND NO MORE THAN 48" ABOVE FLOOR LEVEL PER NFPA 72.

K. WALL MOUNTED SPEAKER/STROBES AND STROBES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS ARE NOT LESS THAN 80" AFF. AND NOT GREATER THAN 96" AFF. PER NFPA 72.

L. REMINDER, NOTIFY THE STATE FIRE MARSHAL'S OFFICE, VIA SFM FORM 354A, PRIOR TO THE BEGINNING OF INSTALLATION OF FIRE ALARM SYSTEM AND SUBMIT <u>THREE COPIES</u> OF COMPLETE INFORMATION REGARDING SYSTEM, IN COMPLIANCE WITH NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE, 2013 EDITION, CHAPTERS 7 & 10. <u>SPECIAL NOTE:</u> EVIDENCE OF THE SYSTEM DESIGNER'S QUALIFICATIONS, IN THE FORM OF A NICET FIRE ALARM SYSTEM LEVEL IV CERTIFICATION, A STATE OF GEORGIA LVA OR LVU LICENSE, OR AN EOR's STAMP, SHALL BE IDENTIFIED ON THE PLANS, ALONG WITH THE APPROPRIATE NUMBER AND SIGNATURE (SEE CHAPTER 10, PARAGRAPH 10.5.1.). AFTER APPROVAL, THE APPROVED PLANS MUST BE KEPT ON THE SITE AT ALL TIMES. <u>NO WORK SHALL COMMENCE UNTIL APPROVAL OF THE PLANS SUBMITTAL BY SFM.</u>

M. EACH NEW FIRE ALARM AUXILIARY POWER SUPPLY SHALL BE INSTALLED IN AN ELECTRICAL ROOM. EACH POWER SUPPLY SHALL BE SERVED BY A DEDICATED 120V, 20A CIRCUIT. PANELBOARD DIRECTORY SHALL BE PROPERLY UPDATED.

N. CONTRACTOR SHALL INSTALL A 1" CONDUIT WITH PULL STRING FROM EACH P.I.V. VAULT TO ACCESSIBLE PLENUM INSIDE BUILDING. IDENTIFY CONDUIT INSIDE BUILDING AS "P.I.V. VAULT".

O. SUBMIT FACTORY COORDINATED LOCATIONS OF ALL CEILING MOUNTED MOTION SENSORS. INCLUDE WITH LIGHTING SHOP DRAWINGS.

P. MC CABLE IS ONLY ALLOWED TO MAKE SHORT CONNECTIONS TO LAY-IN LIGHTING FIXTURES.

Q. 0-10 VOLT DIMMING CONDUCTORS ARE NOT SHOWN, BUT ARE ASSUMED, AND SHALL BE INSTALLED.

R. ALL EXISTING FLOW AND TAMPER SWITCHES, WHETHER SHOWN OR NOT, SHALL BE REPLACED WITH NEW UNITS.

S. N.E.C. REQUIRES RECEPTACLES IN ELEMENTARY SCHOOLS TO BE TAMPER PROOF.

FIRE ALARM SYSTEM GENERAL NOTES

A. CONTRACTOR SHALL REMOVE EXISTING EDWARDS ADDRESSABLE FIRE ALARM PANEL AND INSTALL A NEW FIRE-LITE ADDRESSABLE FIRE ALARM PANEL WITH VOICE EVACUATION AND MICROPHONE. REFER TO SPECIFICATIONS FOR DESCRIPTION OF NEW PANEL.

B. ALL EXISTING SPEAKERS AND STROBES SHALL BE RECONNECTED TO NEW FACP USING EXISTING WIRING WHERE POSSIBLE.

C. ALL EXISTING INITIATING DEVICES LIKE SMOKE DETECTORS, PULL STATIONS, HEAT DETECTORS, FLOW SWITCHES, TAMPER SWITCHES, DUCT MOUNTED SMOKE DETECTORS, ETC. SHALL BE REPLACED WITH NEW DEVICES AND NEW MODULES. REUSE EXISTING WIRING WHERE POSSIBLE

D. UPON COMPLETION OF WORK, SYSTEM SHALL FUNCTION PROPERLY AND MEET ALL U.L. LISTINGS.

E. UPON COMPLETION OF WORK, ALL NEW AND EXISTING STROBES SHALL BE SYNCHRONIZED.

INTERCOM SYSTEM GENERAL NOTES

A. CONTRACTOR SHALL INSTALL A NEW GALAXY SYSTEM. REFER TO SPECIFICATIONS FOR NEW HEAD END EQUIPMENT.

B. ALL EXISTING INTERCOM CONNECTIONS TO EXISTING CONSOLE SHALL BE RECONNECTED TO NEW EQUIPMENT.

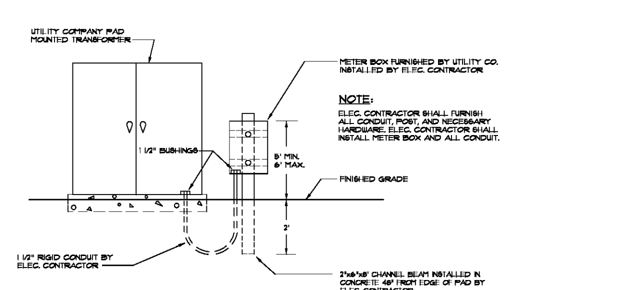
C. UPON COMPLETION OF WORK, SYSTEM SHALL FUNCTION PROPERLY.

PROJECT SPECIAL NOTES

A. CONTRACTOR SHALL INCLUDE IN BID THE FOLLOWING EXTRA EQUIPMENT AND AN ALLOWANCE FOR INSTALLATION. IF EQUIPMENT LISTED IS NOT USED, TURN OVER TO OWNER.
- (3) PULL STATIONS WITH ALARM COVERS
- (5) CEILING MOUNTED STROBES
- (3) CEILING MOUNTED SPEAKER / STROBES
- (5) SMOKE DETECTORS
- (1) HEAT DETECTOR

B. LED LIGHTING FIXTURES SHALL HAVE A MINIMUM WARRANTY OF 10 YEARS. PROVIDE LETTER FROM EACH FIXTURE MANUFACTURER STATING A 10 YEAR WARRANTY IS INCLUDED.

C. CONTRACTOR SHALL PROVIDE TWO (2) OF EACH LIGHTING FIXTURE TYPE AS ATTIC STOCK FOR OWNER.



2 E0.1 DETAIL - PAD MOUNTED TRANSFORMER
NOT TO SCALE

SYMBOL LEGEND

MOUNTING HEIGHT IS FROM FINISHED FLOOR TO CENTERLINE OF DEVICE OR OUTLET. HEIGHT MAY VARY TO COINCIDE WITH BUILDING CONSTRUCTION.

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	DOWNLIGHT	
	LIGHT FIXTURE - WALL MOUNTED	AS NOTED
	2' X 4' LIGHT FIXTURE	
	2' X 4' LIGHT FIXTURE ON EMERGENCY CIRCUIT	
	1' X 4' LIGHT FIXTURE	
	1' X 4' LIGHT FIXTURE ON EMERGENCY CIRCUIT	
	EXIT SIGN - CEILING MOUNTED DARKENED SECTION(S) OF SYMBOLS INDICATE FACES OF FIXTURE	
	EXIT SIGN - WALL MOUNTED DARKENED SECTION(S) OF SYMBOLS INDICATE FACES OF FIXTURE	
	EXIT SIGN - CEILING MOUNTED DARKENED SECTION(S) OF SYMBOLS INDICATE FACES OF FIXTURE	
	EXIT SIGN - WALL MOUNTED DARKENED SECTION(S) OF SYMBOLS INDICATE FACES OF FIXTURE	
S_{K3}	KEY OPERATED THREE-WAY SWITCH	48"
S	S.P.S.T. LIGHT SWITCH	48"
M	LOW VOLTAGE DUAL TECHNOLOGY 360 DEGREE CEILING MOUNTED OCCUPANCY SENSOR (HUBBELL OMNI-DT-2000 BASIS OF DESIGN)	---
P	POWER PACK INSTALLED ABOVE CEILING (HUBBELL UVPP, BASIS OF DESIGN)	---
D	0-10 VOLT DIMMER (INCLUDE POWER PACK IF LOAD EXCEEDS RATING OF DIMMER)	48"
S_3	THREE-WAY LIGHT SWITCH	48"
S_4	FOUR-WAY LIGHT SWITCH	48"
S_K	KEY OPERATED LIGHT SWITCH	48"
	SINGLE RECEPTACLE OUTLET (TAMPER PROOF)	18"
	DUPLEX RECEPTACLE OUTLET (TAMPER PROOF)	18"
	QUAD RECEPTACLE OUTLET (TAMPER PROOF)	18"
	DUPLEX RECEPTACLE MOUNTED 6" ABOVE BACKSPLASH (TAMPER PROOF)	---
J	JUNCTION BOX W/COVERPLATE - ABOVE CEILING	---
J	JUNCTION BOX W/COVERPLATE - WALL MOUNTED	---
D	1"C. BELOW SLAB TO ACCOMMODATE DATA CABLES	---
	SPECIAL OUTLET (AS NOTED)	---
	PANELBOARD 480V	---
	PANELBOARD 240V	---
	DISCONNECT SWITCH - HORSEPOWER RATED	---
F	MOTOR - FRACTIONAL HORSEPOWER	---
	MOTOR - NUMERAL INDICATES HORSEPOWER	---
	TELEPHONE OUTLET WITH 1"C. STUBBED INTO ACCESSIBLE PLENUM	18"
	DATA OUTLET WITH 1"C. STUBBED INTO ACCESSIBLE PLENUM	18"
AV	4x4 JUNCTION BOX WITH SINGLE GANG RING AND 1 1/2"C. STUBBED INTO ACCESSIBLE PLENUM	---
F	FIRE ALARM PULL STATION (GENERAL NOTE "J")	---
	FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) (GENERAL NOTE "K") (8.0 WATT SPEAKER)	---
S	FIRE ALARM SPEAKER (WALL MOUNTED)	---
X	FIRE ALARM STROBE (CEILING MOUNTED)	---
C	CEILING MOUNTED FIRE ALARM SPEAKER / STROBE (8.0 WATT SPEAKER)	---
	SMOKE DETECTOR - CEILING MOUNTED OR SURFACE MOUNTED	---
H WP	WEATHER PROOF HORN	---
	SMOKE DETECTOR - DUCT MOUNTED	---
	HEAT DETECTOR	---
WF	SPRINKLER FLOW SWITCH	---
VS	SPRINKLER TAMPER SWITCH	---
DH	DOOR HOLD DEVICE (WALL MOUNTED)	---
DH	DOOR HOLD DEVICE (FLOOR MOUNTED)	---
PS	PRESSURE SWITCH	---
C	INTERCOM CALL BUTTON	48"
S	INTERCOM SPEAKER	---
S	WALL MOUNTED INTERCOM SPEAKER	---
S	SURFACE MOUNTED INTERCOM SPEAKER	---
S_V	INTERCOM SPEAKER WITH VOLUME CONTROL	---
V	VOLUME CONTROL	48"
M	MICROPHONE JACK	18"
	INTERCOM ADMINISTRATIVE PHONE SET	18"
S_{WP}	WEATHER PROOF EXTERIOR SPEAKER	---
	CONDUIT CONCEALED IN WALLS, ABOVE CEILING, OR EXPOSED WHERE NO CEILING	---
	CONDUIT CONCEALED IN SLAB, IN GROUND, OR UNDERFLOOR	---
W.P.	WEATHER PROOF	---
G	GROUND FAULT INTERRUPT	---
U.N.O.	UNLESS NOTED OTHERWISE	---
NF	NON FUSED	---
SN	SOLID NEUTRAL	---
FACP	FIRE ALARM CONTROL PANEL	---

HOT
NEUTRAL
CONDUIT

<u>NOTE:</u> GROUND CONDUCTOR IS NOT SHOWN, BUT IS ASSUMED, AND SHALL BE INSTALLED.

B&A Breaux & Associates ARCHITECTS
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GEORGIA No. PE029610 PROFESSIONAL ENGINEER J. KEITH MATHIS
03-06-2020

MATHIS & ROBERDS CONSULTING ENGINEERS
244 O'DELL ROAD SUITE 6
GRIFFIN, GEORGIA 30224
TELEPHONE 770-228-8160
2020-020
JKM

NO	DESCRIPTION	DATE

RUSSOM ELEMENTARY SCHOOL ADDITION
44 RUSSOM ELEMENTARY SCHOOL LANE
DALLAS, GA 30132
(FACILITY CODE: 710-0204)

PAULDING COUNTY SCHOOLS

SITE PLAN - ELECTRICAL, SYMBOL LEGEND, AND GENERAL NOTES

DATE 03/06/2020
PROJECT NO. 19117

E0.1

Russom Elem. School Addition

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