PANEL: MGA — MAINS: 400A MB — A.I.C.: 14,000
VOLTAGE: 480/277V, 3PH, 4W — ENTRY: BOTTOM — MOUNTING: SURFACE

NOTE	POLE	TRIP	DESIGNATION	CONDUCTOR	CONDUIT	CONN KVA	No.	A	B	C	No.	CONN KVA	CONDUIT	CONDUCTOR	DESIGNATION	TRIP	POLE	NOTE
	3	15	RTAC-1	3#12, #12G	1/2"	3.1	01	5.9			02	2.8	3/4"	3#12, #12G	RTAC-5	15	3	
	↓	↓	↓	↓	↓	3.1	03		5.9		04	2.8	↓	↓	↓	↓	↓	
						3.1	05			5.9	06	2.8						
	3	15	RTAC-2	3#12, #12G	3/4"	3.5	07	6.3			08	2.8	3/4"	3#12, #12G	RTAC-6	15	3	
	↓	↓	↓	↓	↓	3.5	09		6.3		10	2.8	↓	↓	↓	↓	↓	
						3.5	11			6.3	12	2.8						
	3	15	RTAC-4	3#12, #12G	1/2"	3.1	13	18.9			14	15.8	11/4"	3#4, #8G	RTAC-7	70	3	
	↓	↓	↓	↓	↓	3.1	15		18.9		16	15.8	↓	↓	↓	↓	↓	
						3.1	17			18.9	18	15.8						
	1	20	SPARE				19	15.8			20	15.8	11/4"	3#4, #8G	RTAC-8	70	3	
	3	15	EUH-1	3#12, #12G	1/2"	1.7	21		17.5		22	15.8	↓	↓	↓	↓	↓	
	↓	↓	↓	↓	↓	1.7	23			17.5	24	15.8						
						1.7	25	1.7			26				SPARE	30	3	
	1	20	SPARE				27		0.0		28				↓	↓	↓	
	1	20	SPARE				29			0.0	30							
	3	60	PANEL CGA VIA XGANL	3#6, #6G	1"	10.0	31	10.0			32				SPACE			
	↓	↓	↓	↓	↓	10.0	33		10.0		34				↓			
						10.0	35			10.0	36							
	3	150	PANEL LGA VIA XGA	3#1/0, #1/0G	2"	25.0	37	34.1			38	9.1	1"	4#6, #10G	PANEL HGLA	60	3	
	↓	↓	↓	↓	↓	25.0	39		34.9		40	9.9	↓	↓	↓	↓	↓	
						25.0	41			30.7	42	5.7						
								92.7	93.5	89.3								

PANEL: HGLA — MAINS: 100A MLO — A.I.C.: 14,000
VOLTAGE: 480/277V, 3PH, 4W — ENTRY: BOTTOM — MOUNTING: SURFACE

NOTE	POLE	TRIP	DESIGNATION	CONDUCTOR	CONDUIT	CONN KVA	No.	A	B	C	No.	CONN KVA	CONDUIT	CONDUCTOR	DESIGNATION	TRIP	POLE	NOTE
	1	20	GYMNASIUM LIGHTS	#12, #12G	1/2"	2.4	01	3.2			02	0.8	1/2"	#12, #12G	CLASSROOM LIGHTS	20	1	
	1	20	GYMNASIUM LIGHTS	↓	↓	2.4	03		3.6		04	1.2	1/2"	#12, #12G	LIGHTS	20	1	
	1	20	GYMNASIUM LIGHTS	#12, #12G	1/2"	2.4	05			3.7	06	1.3	↓	↓	LIGHTS	20	1	
	1	20	GYMNASIUM LIGHTS	↓	↓	2.0	07	3.5			08	1.5	1/2"	#12, #12G	LIGHTS	20	1	
	1	20	GYMNASIUM LIGHTS	#12, #12G	1/2"	2.4	09		3.9		10	1.5	1/2"	#12, #12G	STAGE AREA LIGHTS	20	1	
	1	20	GYMNASIUM LIGHTS	↓	↓	2.0	11			2.0	12				SPARE	20	1	
	1	20	GYMNASIUM LIGHTS	#12, #12G	1/2"	2.4	13	2.4			14				SPARE	20	1	
	1	20	GYMNASIUM LIGHTS	↓	↓	2.4	15		2.4		16				SPARE	20	1	
	1	20	SPARE				17			0.0	18				SPACE			
	1	20	SPARE				19	0.0			20				SPACE			
	1	20	SPARE				21		0.0		22				SPACE			
			SPACE				23			0.0	24				SPACE			
			SPACE				25	0.0			26				SPACE			
			SPACE				27		0.0		28				SPACE			
			SPACE				29			0.0	30							
							31	0.0			32							
							33		0.0		34							
							35			0.0	36							
							37	0.0			38							
							39		0.0		40							
							41			0.0	42							
								9.1	9.9	5.7								

PROVIDE THIS PANEL AS LIGHTING CONTROL PANEL PER SPECIFICATIONS 260943.

PANEL: LGA (SECTION 1 OF 2) — MAINS: 225A MB — A.I.C.: 10,000
VOLTAGE: 120/208V, 3PH, 4W — ENTRY: BOTTOM — MOUNTING: SURFACE

NOTE	POLE	TRIP	DESIGNATION	CONDUCTOR	CONDUIT	CONN KVA	No.	A	B	C	No.	CONN KVA	CONDUIT	CONDUCTOR	DESIGNATION	TRIP	POLE	NOTE
	1	20	CONVENIENCE OUTLETS	#12, #12G	1/2"	1.2	01	2.4			02	1.2	1/2"	#12, #12G	CONVENIENCE OUTLETS	20	1	
	1	20	CONVENIENCE OUTLETS	↓	↓	1.2	03		2.4		04	1.2	↓	↓	CONVENIENCE OUTLETS	20	1	
	1	20	CONVENIENCE OUTLETS	#12, #12G	1/2"	0.8	05			1.8	06	1.0	↓	↓	CONVENIENCE OUTLETS	20	1	
	1	20	CONVENIENCE OUTLETS	↓	↓	1.2	07	2.2			08	1.0	1/2"	#12, #12G	CONVENIENCE OUTLETS	20	1	
	1	20	CONVENIENCE OUTLETS	#12, #12G	1/2"	0.8	09		1.2		10	0.4	1/2"	#10, #12IG	SMOKE DAMPERS	20	1	
	1	20	WATER HTR. #4, #5 & RF-1	#12, #12G	1/2"	1.2	11			2.2	12	1.0	1/2"	#12, #12G	EWC	20	1	GFI
	1	20	CONVENIENCE OUTLETS	#12, #12G	1/2"	1.2	13	2.2			14	1.0	↓	↓	EWC	20	1	GFI
	1	20	CONVENIENCE OUTLETS	↓	↓	1.2	15		2.2		16	1.0	↓	↓	EWC	20	1	GFI
	1	20	OUTLETS AT BLEACHERS	#12, #12G	1/2"	0.4	17			2.4	18	2.0	1/2"	#10, #10G	HAND DRYER	25	1	
	3	20	BLEACHERS	4#10, #10G	3/4"	1.5	19	3.5			20	2.0	↓	↓	HAND DRYER	25	1	
	↓	↓	↓	↓	↓	1.5	21		3.5		22	2.0	1/2"	#10, #10G	HAND DRYER	25	1	
						1.5	23			3.5	24	2.0	↓	↓	HAND DRYER	25	1	
	1	20	BASKETBALL BACKBOARD MTR	#10, #10G	3/4"	1.2	25	3.2			26	2.0	1/2"	#10, #10G	HAND DRYER	25	1	
	1	20	BASKETBALL BACKBOARD MTR	↓	↓	1.2	27		3.2		28	2.0	↓	↓	HAND DRYER	25	1	
	1	20	BASKETBALL BACKBOARD MTR	#10, #10G	3/4"	1.2	29			1.2	30				SPARE	20	1	
	1	20	BASKETBALL BACKBOARD MTR	↓	↓	1.2	31	2.0			32	0.8	1/2"	#12, #12G	CONVENIENCE OUTLETS	20	1	
	1	20	BASKETBALL BACKBOARD MTR	#10, #10G	3/4"	1.2	33		2.0		34	0.8	↓	↓	CONVENIENCE OUTLETS	20	1	
	1	20	BASKETBALL BACKBOARD MTR	↓	↓	1.2	35			1.6	36	0.4	1/2"	#12, #12G	GFI OUTLETS	20	1	
	1	20	SCORE BOARD	#12, #12G	1/2"	1.0	37	1.8			38	0.8	1/2"	#12, #12G	EF-75 & SF-2	20	1	
	1	20	SCORE BOARD	#12, #12G	1/2"	1.0	39		1.8		40	0.8	1/2"	#12, #12G	EF-[illegible]	20	1	
	1	20	SPARE				41			0.0	42				SPACE			
								17.3	16.3	12.7								

PROVIDE WITH FEED THRU LUGS.

PANEL: LGA (SECTION 2 OF 2) — MAINS: 225A MLO — A.I.C.: 10,000
VOLTAGE: 120/208V, 3PH, 4W — ENTRY: TOP — MOUNTING: SURFACE

NOTE	POLE	TRIP	DESIGNATION	CONDUCTOR	CONDUIT	CONN KVA	No.	A	B	C	No.	CONN KVA	CONDUIT	CONDUCTOR	DESIGNATION	TRIP	POLE	NOTE
	2	15	DCU-1 & DFCU-1	3#12, #12G	1/2"	1.5	43	2.5			44	1.0	3/4"	#10, #10G	STAGE TRACK LIGHTS	20	1	
	↓	↓	↓	↓	↓	1.5	45		2.5		46	1.0	↓	#10, #10G	STAGE TRACK LIGHTS	20	1	
	2	30	RTAC-3	3#10, #10G	1/2"	2.0	47			4.0	48	2.0	1/2"	#10, #10G	HAND DRYER	25	1	
	↓	↓	↓	↓	↓	2.0	49	4.0			50	2.0	↓	↓	HAND DRYER	25	1	
	1	20	CONVENIENCE OUTLET	#10, #10G	1/2"	1.2	51		2.2		52	1.0	3/4"	#10, #10G	CONVENIENCE OUTLETS	20	1	
	1	20	SPARE				53			1.0	54	1.0	↓	↓	CONVENIENCE OUTLETS	20	1	
	1	20	SPARE				55	1.0			56	1.0	1/2"	#12, #12G	CONVENIENCE OUTLETS	20	1	
	1	20	SPARE				57		0.0		58				SPARE	20	1	
			SPACE				59			0.0	60				SPARE	20	1	
			SPACE				61	0.0			62				SPARE	20	1	
			SPACE				63		0.0		64				SPACE			
			SPACE				65			0.0	66				SPACE			
							67	0.0			68							
							69		0.0		70							
							71			0.0	72							
							73	0.0			74							
							75		0.0		76							
							77			0.0	78							
							79	0.0			80							
							81		0.0		82							
							83			0.0	84							
								7.5	5.7	5.0								

PANEL: CGA (NON-LINEAR) — MAINS: 100A MB — A.I.C.: 10,000
VOLTAGE: 120/208V, 3PH, 4W — ENTRY: TOP — MOUNTING: SURFACE

NOTE	POLE	TRIP	DESIGNATION	CONDUCTOR	CONDUIT	CONN KVA	No.	A	B	C	No.	CONN KVA	CONDUIT	CONDUCTOR	DESIGNATION	TRIP	POLE	NOTE
	1	20	SPARE				01	1.0			02	1.0	1/2"	#12, #12IG	IDF-AA	20	1	
	1	20	SPARE				03		1.0		04	1.0	↓	#12, #12IG	IDF-AA	20	1	
	1	20	COMPUTER OUTLETS	#12, #12IG	1/2"	1.6	05			2.8	06	1.2	1/2"	#12, #12IG	PA-1	20	1	
	1	20	COMPUTER OUTLETS	↓	↓	1.6	07	2.0			08	0.4	1/2"	#12, #12IG	COMPUTER OUTLETS	20	1	
	1	20	SPARE				09		0.4		10	0.4	1/2"	#12, #12IG	COMPUTER OUTLETS	20	1	
	1	20	SPARE				11			0.4	12	0.4	1/2"	#10, #10IG	STAGE COMPUTER OUTLET	20	1	
	1	20	SPARE				13	0.0			14				SPARE	20	1	
	1	20	SPARE				15		0.0		16				SPARE	20	1	
	1	20	SPARE				17			0.0	18				SPACE			
			SPACE				19	0.0			20				↓			
			↓				21		0.0		22							
							23			0.0	24							
							25	0.0			26	----	11/4"	4#4, #6G	TCS	50	3	
							27		0.0		28	----	↓	↓	↓	↓	↓	
							29			0.0	30	----						
							31	0.0			32							
							33		0.0		34							
							35			0.0	36							
							37	0.0			38							
							39		0.0		40							
							41			0.0	42							
								3.0	3.4	3.2								

PANEL: EHG — MAINS: 20A MB — A.I.C.: 14,000
VOLTAGE: 480/277V, 3PH, 4W — ENTRY: BOTTOM — MOUNTING: SURFACE

NOTE	POLE	TRIP	DESIGNATION	CONDUCTOR	CONDUIT	CONN KVA	No.	A	B	C	No.	CONN KVA	CONDUIT	CONDUCTOR	DESIGNATION	TRIP	POLE	NOTE
	3	20	PANEL ELG VIA EXG	3#12, #12G	1/2"	3.0	01	[illegible]			[illegible]	[illegible]	1/2"	[illegible] #12G	[illegible] LIGHTS	20	1	
	↓	↓	↓	↓	↓	[illegible]	[illegible]		3.8		04	[illegible]	1/2"	[illegible] #12G	[illegible]RGENCY LIGHTS	20	1	
						[illegible]	[illegible]			3.4	06	[illegible]	[illegible]/2"	[illegible]	EMERGENCY LIGHTS	20	1	
			SPACE				[illegible]	[illegible]			08				SPACE			
			↓				09		0.0		10				↓			
							11			0.0	12							
							13	0.[illegible]			14							
							15		[illegible]		16							
							17			[illegible]	18							
							19	0.0			20							
							21		0.0		22							
							23			0.0	24							
							25	0.0			26							
							27		0.0		28							
							29			0.0	30							
							31	0.0			32							
							33		0.0		34							
							35			0.0	36							
							37	0.0			38							
							39		0.0		40							
							41			0.0	42							
								4.1	3.8	3.4								

PANEL: ELG — MAINS: 30A MB — A.I.C.: 10,000
VOLTAGE: 120/208V, 3PH, 4W — ENTRY: TOP — MOUNTING: SURFACE

NOTE	POLE	TRIP	DESIGNATION	CONDUCTOR	CONDUIT	CONN KVA	No.	A	B	C	No.	CONN KVA	CONDUIT	CONDUCTOR	DESIGNATION	TRIP	POLE	NOTE
	1	30	IDF-AA	#10, #10IG	1/2"	2.6	01	2.6			02				SPARE	20	1	
			SPACE				03		0.0		04				SPARE	20	1	
			↓				05			0.0	06				SPARE	20	1	
							07	0.0			08							
							09		0.0		10							
							11			0.0	12							
							13	0.0			14							
							15		0.0		16							
							17			0.0	18							
							19	0.0			20							
							21		0.0		22							
							23			0.0	24							
							25	0.0			26							
							27		0.0		28							
							29			0.0	30							
							31	0.0			32							
							33		0.0		34							
							35			0.0	36							
							37	0.0			38							
							39		0.0		40							
							41			0.0	42							
								2.6	0.0	0.0								

MECHANICAL EQUIPMENT POWER SCHEDULE

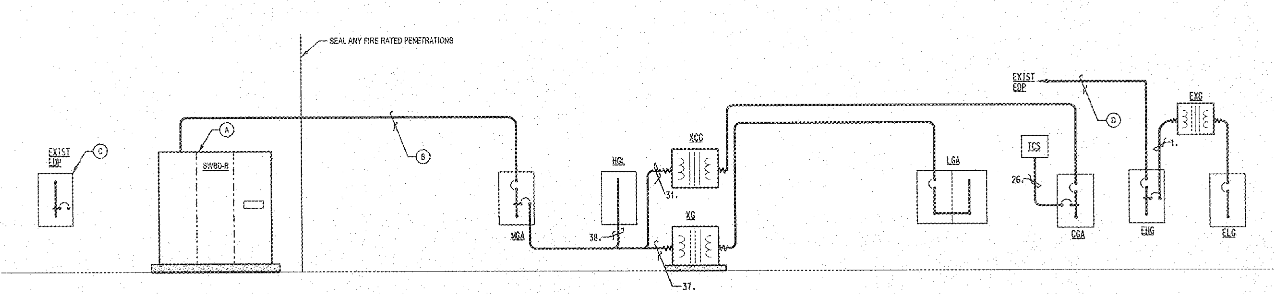
MECHANICAL TAG	VOLTAGE REQUIRED	DISCONNECT	CIRCUIT #	NOTES
EF-1	120	INTEGRAL DISCONNECT	LGA-38	1,2,4,5
EF-2	120	INTEGRAL DISCONNECT	LGA-38	1,2,4,5
SF-1	120	INTEGRAL DISCONNECT	LGA-38	1,2,3,5
DFCU-1	208/1PH	30A/3P/NEMA1	LGA-43	[illegible]
DCU-1	208/1PH	30A/3P/NEMA 3R	LGA-43	[illegible]
EUH-1	480/3PH	30A/3P/NEMA1	MGA-21	[illegible]
RTAC-1	480/3PH	INTEGRAL DISCONNECT	MGA-1	[illegible]
RTAC-2	480/3PH	INTEGRAL DISCONNECT	MGA-7	1,8,9
RTAC-3	208/1PH	30A/3P/NEMA 3R	LGA-47	7
RTAC-4	480/3PH	INTEGRAL DISCONNECT	MGA-13	1,8,9
RTAC-5	480/3PH	INTEGRAL DISCONNECT	MGA-2	1,8,9
RTAC-6	480/3PH	INTEGRA[illegible]	MGA-8	1,8,9
RTAC-7	480/3PH	INTEGRAL DISCONNECT	MGA-14	1,8,9,11
RTAC-8	480/3PH	INTEGRAL DISCONNECT	MGA-20	1,8,9,11
RTAC-9	480/3PH	INTEGRAL DISCONNECT	PANEL HB	1,8,9,10,11
RTAC-10	480/3PH	INTEGRAL DISCONNECT	PANEL HA	1,8,9,10

NOTES:
1. DISCONNECT BY DIVISION 23.
2. WIRE THRU SPEED CONTROLLER BY D[illegible]SION 23.
3. WIRE THRU LINE VOLTAGE THERMOSTA[illegible]BY DIVISION [illegible]
4. WIRE THRU LINE VOLTAGE CONTACTOR [illegible] DIVISION [illegible]
5. CIRCUIT SHARED BY OTHER EQUIPMENT.
6. ROUTE CIRCUIT FROM DFCU TO DCU PER [illegible]NUFACTU[illegible] INSTRUCTIONS. CIRCUIT CONFIGURATION IS FOR THE BASIS OF DES[illegible] EQUIPME[illegible]ORDINATE EXACT REQUIREMENT[illegible]TH THE MANUFACTURER'S [illegible]STRUCTIONS.
7. ROUTE C[illegible]UGH PIPE BOX IN ROOF B[illegible]VISION 23.
8. CONTR[illegible]CTOR SHALL ROUTE ALL POWER CONCE[illegible]D WITH MECHANICAL [illegible]OF CURB. CONTR[illegible]CTOR SHALL ROUTE UTILITIES IN FACTORY DE[illegible] LOCATIONS. UNDER NO CIRCUM[illegible] CONTRACTOR CUT OPENINGS IN THE BOTTOM OF UNIT. FIELD CUTTING [illegible]ULT IN REJECTION OF UNIT AND NEW UNIT SHALL BE PROVIDED [illegible] NO ADDITIONAL COST [illegible]WNER.
9. [illegible]VIDE SINGLE POINT PO[illegible]R CONNECTION TO UNITS INTEGRAL DISCONNECT. COORDINATE [illegible] LOCATI[illegible] WITH E[illegible]PMENT SUPPLIED.
10. C[illegible]ECT TO [illegible]ED PANEL. PROVIDE A 20A/3P, 14KAIC, CIRCUIT BREAKER AND 3#[illegible]G CONDUCTORS IN 1/2" CONDUIT FOR THIS CIRCUIT. MAKE ALL CONNECTIONS.
11. PRO[illegible]UCT MOUNTED SMOKE DETECTOR FOR THIS UNIT AND CONNECT TO FIRE ALARM SYST[illegible]NSTALL REMOTE TEST SWITCH IN ACCESSIBLE LOCATION IN CORRIDOR CEILINGS.

TRANSF[illegible] SCHEDULE

MARK	LOCATION	VOLTAGE: PRIMARY	VOLTAGE: SECONDARY	KVA	SECONDARY CONDUCTOR	MOUNTING
[illegible]	ELECT/ME[illegible] (911)	480 D[illegible]	120/208 WYE, 3PH, 4W	75	4#4/0, #4G; 21/2"C	FLOOR
[illegible]	ELECT/ME[illegible] (911)	480 DEL[illegible]	120/208 WYE, 3PH, 4W	30	3#1, 2#1/0N, #6G; 2"C	STACKED
[illegible]	ELECT/ME[illegible] (911)	480 DELTA	120/208 WYE, 3PH, 4W	9	4#10, #10G; 3/4"C	WALL

* PROVI[illegible]ED NON-L[illegible]EAR TRANSFORMER.



POWER RISER DIAGRAM
SCALE: NONE

NOTES: (THIS SHEET ONLY)

(A) EXISTING GE, SPECTRA SERIES, 480/277V, 3PH., 4W, 3000A MAIN SWITCHBOARD.

(B) PROVIDE A 400A, 3 POLE CIRCUIT BREAKER AND 4#600 KCMIL, #2G CONDUCTORS AND 31/2" CONDUIT FOR THIS FEEDER. MAKE CONNECTIONS TO EXISTING SWITCHBOARD AS SHOWN. REARRANGE EXISTING SPARE CIRCUIT BREAKERS IN AVAILABLE SPACE TO MAKE SPACE FOR THE NEW CIRCUIT BREAKER. MAKE ALL CONNECTIONS.

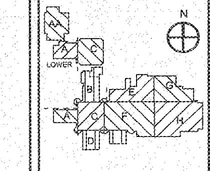
(C) EXISTING GE, TYPE A, 480/277V, 3PH., 4W, EMERGENCY POWER PANELBOARD.

(D) PROVIDE A 20A, 3 POLE CIRCUIT BREAKER AND 4#4, #8G CONDUCTORS AND 11/2" CONDUIT FOR THIS FEEDER. MAKE CONNECTIONS TO EXISTING PANEL AS SHOWN. MAKE ALL CONNECTIONS.

REVISIONS/ISSUANCES

NO.	DATE	DESCRIPTION

KEYPLAN



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GEORGIA REGISTERED No. 17029 PROFESSIONAL ENGINEER JAMES A. ANDREWS, JR.

STATE OF GEORGIA W. YANCEY SMITH JR. CERTIFICATE NUMBER 6279 REGISTERED ARCHITECT

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PROJECT:
RENOVATIONS, MODIFICATIONS, & ADDITIONS TO HENRY COUNTY SCHOOLS - GROUP 10 WOODLAND HIGH SCHOOL (ITEM C)

CLIENT:
HENRY COUNTY BOARD OF EDUCATION

SHEET TITLE:
ELECTRICAL SCHEDULES AND POWER RISER DIAGRAM

I.U. : 89
F.T.E. : 1.667
FACILITY CODE: 675-0408

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PROJECT NUMBER:	201731C
DATE:	06.07.18
SCALE:	NONE
DRAWN BY:	AJS
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