

2 SWITCHBANK (SB) X2
SCALE: NTS

NOTE:
PROVIDE LABELING ON ALL SWITCHES AND DEVICES NOTING CIRCUIT SERVED.
AUTOMATIC LIGHTING SHUTOFF IS NOT SHOWN IN THE EGRESS PATH LIGHTING AS ALLOWED PER 905.2.2.2.1 EXCEPTION #3, WHERE AUTOMATIC SHUTOFF WOULD ENDANGER OCCUPANT SAFETY.
THE ALL EXIT AND EMERGENCY LIGHTS TO NEAREST AVAILABLE UNSWITCHED LIGHTING CIRCUIT IN THE AREA SERVED.
VERIFY HEIGHT/LOCATION OF ALL SWITCHES AND DEVICES PRIOR TO INSTALLATION.

Revise E2.1

LIGHTING SCHEDULE *

MARK	MANUFACTURER	CATALOG NO.	VOLT.	LAMPS	BALLAST	W/	REMARKS
				NO.	TYPE	FIXTURE	
B	LITHONIA	CPX-2X4-4000LM-30K-M2	120	-	LED	-	LED 2X4 LAY-IN FIXTURE, DIMMING CAPABILITY *
C	PRESCOLITE	LFLEDD04-6MFLD60430K	120	-	LED	-	LED 6" RECESSED CAN LIGHT, DIMMING CAPABILITY *
CL	PRESCOLITE	LTC-6RD-(S/P)30L35K9MD	120	-	LED	-	LED 6" CYLINDER LIGHT, SURFACE OR PENDANT MOUNT, WET LOCATION *
F	BIG ASS FANS	HAKU	120	-	LED	-	50" INDOOR/OUTDOOR CEILING FAN, COLOR/FINISH BY OWNER/ARCH *
H	LITHONIA	HEBL-1BL-40K-80CRI	120	-	LED	-	LED HIGH BAY LIGHT FIXTURE, COLOR/FINISH BY OWNER/ARCH *
S	PRESCOLITE	LTC-6RD-W30L35K9MD	120	-	LED	-	LED 6" CYLINDER SCENCE, WET LOCATION, COLOR/FINISH BY OWNER/ARCH *
W	HUBBELL	S91-40-3K7-FT-UNV-BLT	120	-	LED	-	LED WALL PACK, WET LOCATION, COLOR/FINISH BY OWNER/ARCH *
X	COMPASS	CUSO	120	-	LED	-	LED EGRESS FIXTURE - DUAL MODE, NORMAL/EMERG. OPERATION *
EXIT	COMPASS	CEL	120	-	LED	-	LED EXIT SIGN W/ BATTERY, UNIVERSAL-MOUNT, SELF DIAGNOSTICS *
EMERG	COMPASS	CU2	120	-	LED	-	LED EMERG. LIGHT W/ BATTERY, UNIVERSAL-MOUNT, SELF DIAGNOSTICS *
EXIT	COMPASS	CCRG	120	-	LED	-	LED EXIT/EMERG. COMBO W/ BATTERY, UNIVERSAL-MOUNT, SELF DIAG. *

* OR APPROVED EQUAL. PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES. CATALOG NUMBERS ARE FOR REFERENCE ONLY, ACTUAL NUMBERS MAY VARY.
THE EMERGENCY LIGHTS AND EXIT SIGNS MUST HAVE INTEGRAL BATTERIES, CHARGERS AND TEST SWITCHES.

PROVIDE LED PHOTOCELL (PC) CONTROLS FOR EXTERIOR LIGHTING CIRCUIT.
LOCATE "PC" AWAY FROM ARTIFICIAL LIGHT (ON ROOF, IF POSSIBLE).
PROVIDE SHIELDING AS REQUIRED. VERIFY LOCATION.

1 NORTH FLOOR PLAN
SCALE: 1/8" = 1'-0"

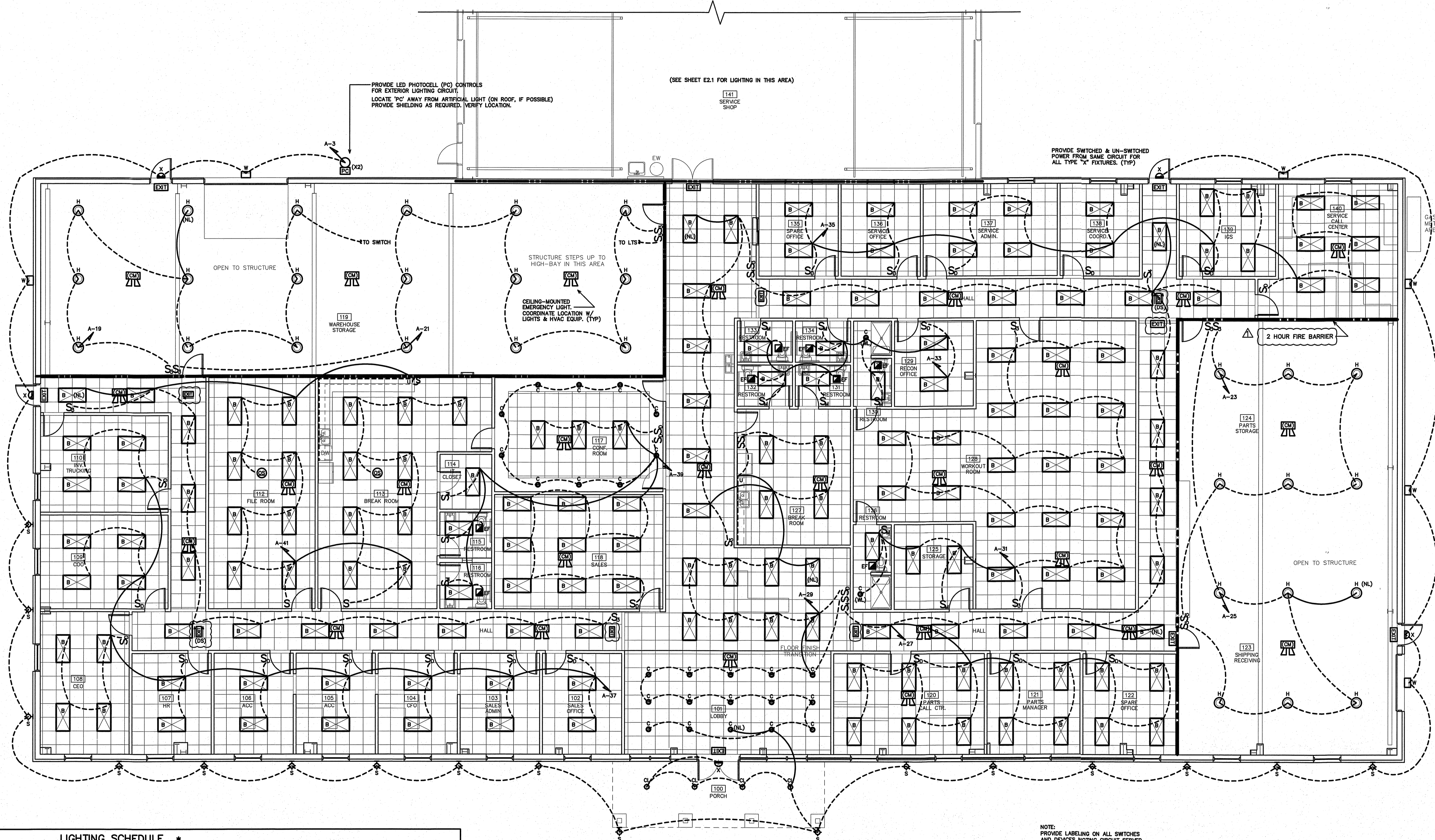
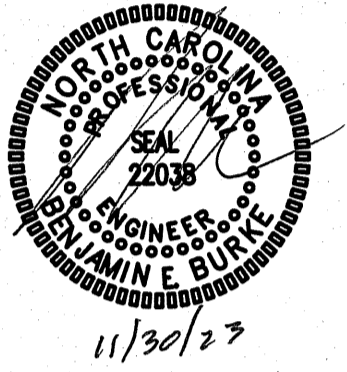
PROJECT TITLE
REVELS TURF & TRACTOR
RAWLS CHURCH RD.
FUQUAY-VARINA, NORTH CAROLINA

PROJECT NO.
2232
DRAWING TITLE
LIGHTING PLAN

E2.1

PLOT DATE 12/01/23

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(SEE SHEET E2.1 FOR LIGHTING IN THIS AREA)

PROVIDE SWITCHED & UN-SWITCHED POWER FROM SAME CIRCUIT FOR ALL TYPE 'X' FIXTURES (TYP)

1 SOUTH FLOOR PLAN
SCALE: 1/8" = 1'-0"

NOTE:
PROVIDE LABELING ON ALL SWITCHES AND DEVICES NOTING CIRCUIT SERVED.

AUTOMATIC LIGHTING SHUTOFF IS NOT SHOWN IN THE EGRESS PATH LIGHTING AS ALLOWED PER 905.2.2.1 EXCEPTION #3, WHERE AUTOMATIC SHUTOFF WOULD ENDANGER OCCUPANT SAFETY.

TIE ALL EXIT AND EMERGENCY LIGHTS TO NEAREST AVAILABLE UNSWITCHED LIGHTING CIRCUIT IN THE AREA SERVED.

VERIFY HEIGHT/LOCATION OF ALL SWITCHES AND DEVICES PRIOR TO INSTALLATION.

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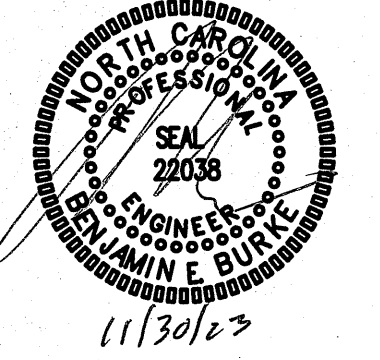
E2.2

PLOT DATE 12/01/23
AHJ COMMENTS 11/30/23

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MARK	MANUFACTURER	CATALOG NO.	VOLT.	LAMPS	BALLAST	W/	REMARKS
				NO.	TYPE	TYPE	FIXTURE
B	LITHONIA	CPX-2X4-400LM-30K-M2	120	-	-	-	LED 2X4 LAY-IN FIXTURE, DIMMING CAPABILITY *
C	PRESCOLITE	LFBLD64-8MFLD6430R	120	-	-	-	LED 6" RECESSED CAN LIGHT, DIMMING CAPABILITY *
CL	PRESCOLITE	LTC-6RD-(S/P)30L35K8MD	120	-	-	-	LED 6" CYLINDER LIGHT, SURFACE OR PENDANT MOUNT, WET LOCATION *
F	BIG ASS FANS	HAUKU	120	-	-	-	52" INDOOR/OUTDOOR CEILING FAN, COLOR/FINISH BY OWNER/ARCH *
H	LITHONIA	SEL-1BL-40K-80CRI	120	-	-	-	LED HIGH BAY LIGHT FIXTURE, COLOR/FINISH BY OWNER/ARCH *
S	PRESCOLITE	LTC-6RD-W3QL35K8MD	120	-	-	-	LED 6" CYLINDER SCIENCE, WET LOCATION, COLOR/FINISH BY OWNER/ARCH *
U	PHILLIPS	HUE LIGHTSTRIP PLUS	120	-	-	-	LED FLEX STRIP (UNDERCOUNTER) LIGHTING, COLOR/FINISH BY ARCH *
W	HUBBELL	SG1-40-3K7-FT-UNV-BLT	120	-	-	-	LED WALL PACK, WET LOCATION, COLOR/FINISH BY OWNER/ARCH *
X	COMPASS	OU50	120	-	-	-	EMERG. EGRESS FIXTURE -- DUAL MODE, NORMAL/EMERG. OPERATION *
EXIT	COMPASS	CEL	120	-	-	-	LED EXIT SIGN W/ BATTERY, UNIVERSAL-MOUNT, SELF DIAGNOSTICS *
EM	COMPASS	OU2	120	-	-	-	LED EMERG. LIGHT W/ BATTERY, UNIVERSAL-MOUNT, SELF DIAGNOSTICS *
EXIT	COMPASS	CCRG	120	-	-	-	LED EXIT/EMERG. COMBO W/ BATTERY, UNIVERSAL-MOUNT, SELF DIAG.

* OR APPROVED EQUAL. PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES.
CATALOG NUMBERS ARE FOR REFERENCE ONLY, ACTUAL NUMBERS MAY VARY.
THE EMERGENCY LIGHTS AND EXIT SIGNS MUST HAVE INTEGRAL BATTERIES, CHARGERS AND TEST SWITCHES.

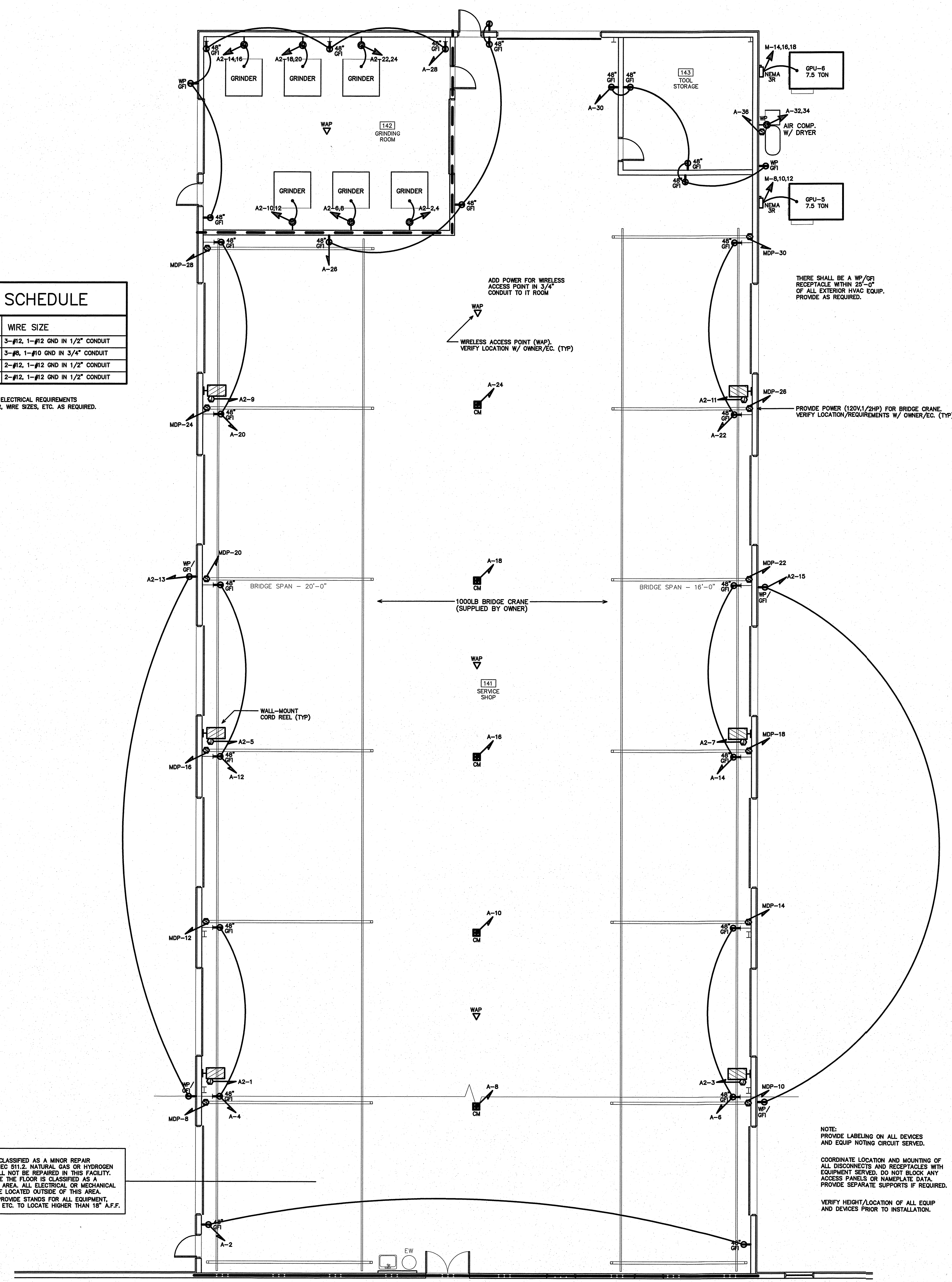


Revels E3.1

EQUIPMENT	MCA	MOCF	VOLTS	PH	WIRE SIZE
GRINDER	12.0A	20A	240V	1	3-#12, 1-#12 GND IN 1/2" CONDUIT
AIR COMP.	31.0A	50A	240V	1	3-#8, 1-#10 GND IN 3/4" CONDUIT
AIR COMP. (DRYER)	9.1A	20A	120V	1	2-#12, 1-#12 GND IN 1/2" CONDUIT
BRIDGE CRANE	10.0A	20A	120V	1	2-#12, 1-#12 GND IN 1/2" CONDUIT

NOTE:
THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN AND RELEASING GEAR. ADJUST BREAKER, WIRE SIZES, ETC. AS REQUIRED.

NOTE:
THE SHOP AREA IS CLASSIFIED AS A MINOR REPAIR GARAGE PER 2017 NEC 511.2. NATURAL GAS OR HYDROGEN FUELED VEHICLES WILL NOT BE REPAIRED IN THIS FACILITY. THE AREA 18" ABOVE THE FLOOR IS CLASSIFIED AS A CLASS 1, DIVISION 2 AREA. ALL ELECTRICAL OR MECHANICAL EQUIPMENT SHALL BE LOCATED OUTSIDE OF THIS AREA. THE OWNER SHALL PROVIDE STANDS FOR ALL EQUIPMENT, WITH OPEN MOTORS, ETC. TO LOCATE HIGHER THAN 18" A.F.F.



NOTE:
PROVIDE LABELING ON ALL DEVICES AND EQUIP NOTING CIRCUIT SERVED.
COORDINATE LOCATION AND MOUNTING OF ALL DISCONNECTS AND RECEPTACLES WITH EQUIPMENT SERVED. DO NOT BLOCK ANY ACCESS PANELS OR NAMEPLATE DATA. PROVIDE SEPARATE SUPPORTS IF REQUIRED.
VERIFY HEIGHT/LOCATION OF ALL EQUIP AND DEVICES PRIOR TO INSTALLATION.

1 NORTH FLOOR PLAN
SCALE: 1/8" = 1'-0"

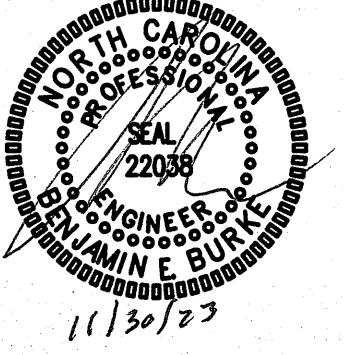
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E3.1

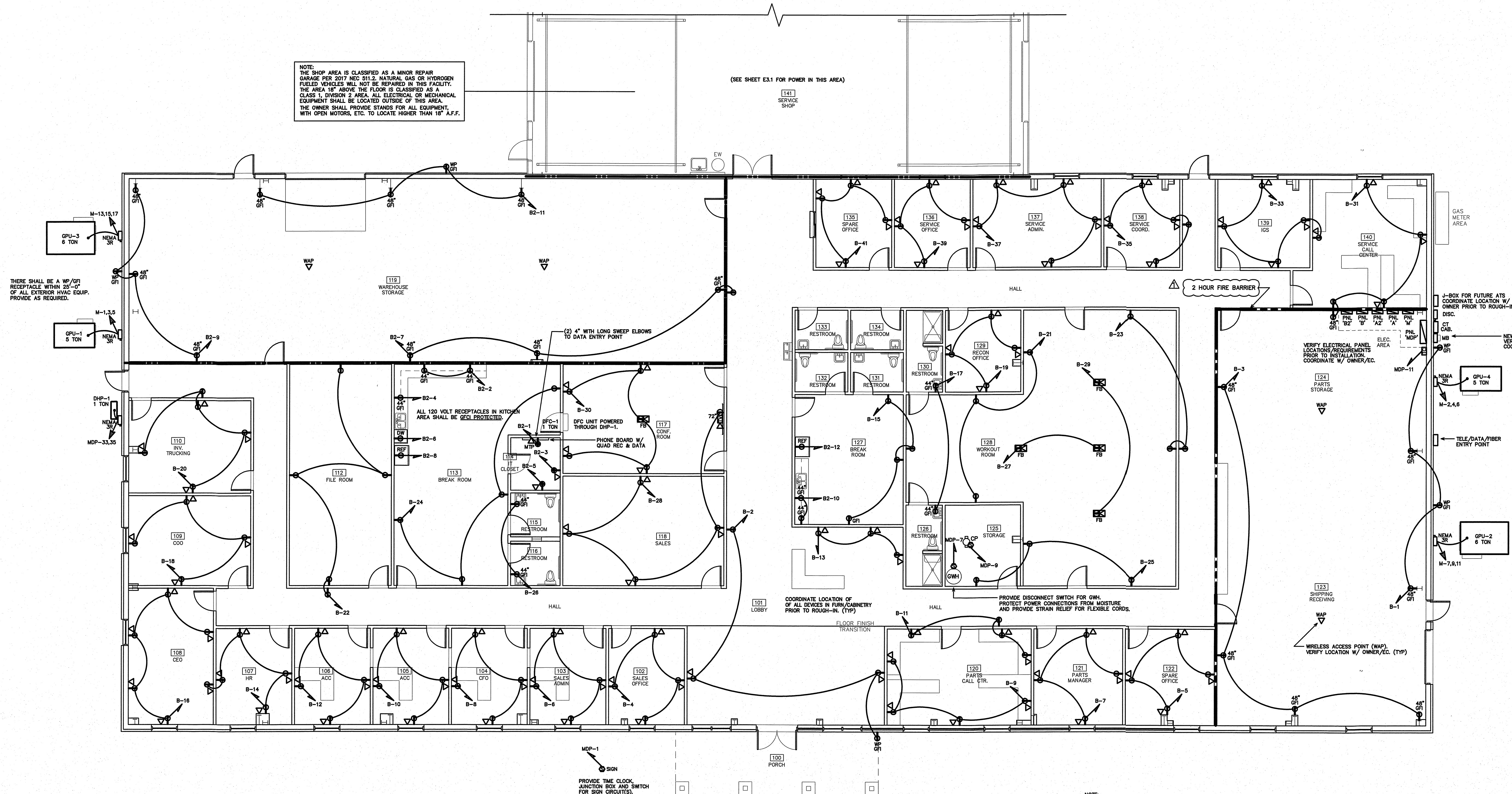
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(SEE SHEET E3.1 FOR POWER IN THIS AREA)



THERE SHALL BE A WP/GFI RECEPTACLE WITHIN 25'-0" OF ALL EXTERIOR HVAC EQUIP. PROVIDE AS REQUIRED.

NEW ELECTRICAL SERVICE EQUIP. VERIFY LOCATION/REQUIREMENTS PRIOR TO INSTALLATION. COORDINATE W/ OWNER, EC, AND LOCAL UTIL.

1 SOUTH FLOOR PLAN
SCALE: 1/8" = 1'-0"

NOTE:
PROVIDE LABELING ON ALL DEVICES AND EQUIP NOTING CIRCUIT SERVED.
COORDINATE LOCATION AND MOUNTING OF ALL DISCONNECTS AND RECEPTACLES WITH EQUIPMENT SERVED. DO NOT BLOCK ANY ACCESS PANELS OR NAMEPLATE DATA. PROVIDE SEPARATE SUPPORTS IF REQUIRED.
VERIFY HEIGHT/LOCATION OF ALL EQUIP AND DEVICES PRIOR TO INSTALLATION.

WEATHER PROOF SWITCH SHALL BE LOCATED WITHIN SIGHT OF SIGN OR BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION PER NEC 600.6. WIRE TO SPECIFIED MULTI-CIRCUIT TIMELOCK IN MAIN ELECTRICAL ROOM.

MONUMENTAL SIGN
(SEE SITE PLAN FOR LOCATION)
PROVIDE 1" CONDUIT FROM BUILDING PANELS TO NEW SIGN LOCATION (COORDINATE W/ OWNER/EC).

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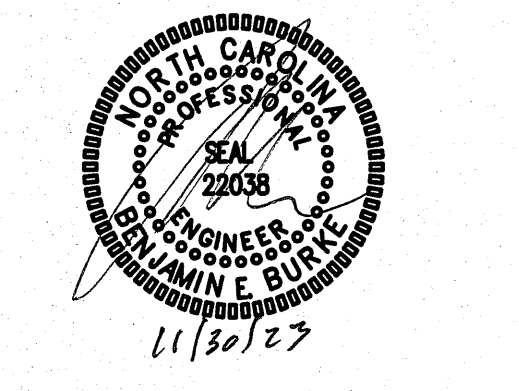
E3.2

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W. S. ARCHITECTS, PA
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.779.9797
www.wsarchitectspa.com

ENGINEER
BURKE DESIGN GROUP, PA
CONSULTING ENGINEERS
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.771.1916 fax: 919.779.0826
email: benburke@nc.rr.com
Corp. License # C-2652



Panel E-1 NEW PANEL- 'MDP'		MAKE: EATON	RATING: 208/120V, 3 PHASE 4 WIRE	M.L.O. MAIN CIRCUIT BREAKER
TYPE: EBL1a		OR APPROVED EQUAL	MINIMUM AIC: VERIFY	EQUIPMENT GROUND BUS SERVICE ENTRY RATED <input type="checkbox"/> YES <input type="checkbox"/> NO
LOAD SERVICE	CKT BRKR	WATTS PER PHASE A B C	NEUTRAL A B C	LOAD SERVICE
SPARE	20A	1200		20A SPARE
SPARE	20A	1200		20A SPARE
OWN CONTRS	20A	300		20A SPARE
CIRC PUMP	20A	500		20A BRIDGE CRANE
TIMEDLOCK	20A	300		20A BRIDGE CRANE
CO DETECTORS	20A	100		20A BRIDGE CRANE
CCTV/SECURITY	20A	100		20A BRIDGE CRANE
SPARE	20A			20A BRIDGE CRANE
SPARE	20A			20A BRIDGE CRANE
SPARE	20A			20A BRIDGE CRANE
SPACE	20A			20A BRIDGE CRANE
SPACE	20A			20A BRIDGE CRANE
SPACE	20A			20A BRIDGE CRANE
SPACE	20A			20A BRIDGE CRANE
DHP-1	20A	938		21651 225A
PANEL 'M'	225A	21120		37 11280
		21120		39 10440
		21120		41 11880
		21120		42 11880
NOTES		SUB-TOTALS 'B'	22720 23856 22856	600A BUS 36878 36891 35216 SUB-TOTALS 'A'
NOTE:				600A LUGS 22720 23856 22856 SUB-TOTALS 'B'
				600A FEED 59398 60747 58072 GRAND TOTAL
		VERIFY SIZE	485A 508A 484A	AMPS/PHASE
NEC ALLOWABLE DEMAND FACTORS				
DIVERSIFIED LOAD SUMMARY				
LOAD TYPE DEMAND FACTOR				
GENERAL LIGHTING 125% 8548 9839 9255 27442				
TRACK LIGHTING 125% 1238 1238 1238 1238				
GENERAL USE RECEPTACLES 125% 3333 3333 3334 10000				
MOTORS AND EQUIPMENT 125% 4454 4724 4083 13271				
WATER HEATERS 125% 4175 4175 4175 12525				
KITCHEN EQUIPMENT 100% 17780 17780 17780 53340				
FIX. ELEC. SPACE HEAT 100% 4000 4000 4000 4000				
SHOW WINDOW LIGHTS 125% 1500 1500 1500 4500				
SIGN 125% 1200 1200 1200 3600				
MISC 100% 12000 12200 9892 34092				
PHASE (TOTAL VA) 52980 54287 51885 159142				
TOTAL AMPS 442A 452A 432A VOLTAGE VOLTS X 1.732 = 442A TOTAL AMPS				

Panel E-2 NEW PANEL- 'A'		MAKE: EATON	RATING: 208/120V, 3 PHASE 4 WIRE	M.L.O. MAIN CIRCUIT BREAKER
TYPE: EBL1a		OR APPROVED EQUAL	MINIMUM AIC: VERIFY	EQUIPMENT GROUND BUS SERVICE ENTRY RATED <input type="checkbox"/> YES <input type="checkbox"/> NO
LOAD SERVICE	CKT BRKR	WATTS PER PHASE A B C	NEUTRAL A B C	LOAD SERVICE
LTS: EXT	20A	630		1 360
LTS: EXT	20A	815		3 4 360
LTS: SHOP	20A	1088		5 6 360
LTS: SHOP	20A	1088		7 8 360
LTS: SHOP	20A	1088		9 10 360
LTS: SHOP	20A	1088		11 12 360
LTS: SHOP	20A	1088		13 14 360
LTS: SHOP	20A	1360		15 16 360
LTS: GRINDING/TOOLS	20A	1088		17 18 360
LTS: WAREHOUSE/STOR	20A	1224		19 20 360
LTS: WAREHOUSE/STOR	20A	1224		21 22 360
LTS: PARTS STOR	20A	816		23 24 360
LTS: SHIPPING/RECEIVING	20A	816		25 26 720
LTS: PARTS HALL	20A	1240		27 28 900
LTS: LOBBY/BREAKHALL	20A	1080		29 30 900
LTS: WORKOUT/STOR	20A	1032		31 32 3600
LTS: RECON/RESTROOMS	20A	960		33 34 3600
LTS: SERVICE	20A	1104		35 36 1092
LTS: OFFICES	20A	960		37 38 8000
LTS: SALES,CONF	20A	1024		39 40 8000
LTS: BREAK,FILE,HALL	20A	1160		41 42 8000
NOTES		SUB-TOTALS 'B'	6838 7711 7404	225A BUS 13780 13940 11432 SUB-TOTALS 'A'
				225A LUGS 6838 7711 7404 SUB-TOTALS 'B'
				225A FEED 20598 21691 18838 GRAND TOTAL
		VERIFY SIZE	172A 180A 157A	AMPS/PHASE
NEC ALLOWABLE DEMAND FACTORS				
DIVERSIFIED LOAD SUMMARY				
LOAD TYPE DEMAND FACTOR				
GENERAL LIGHTING 125% 8548 9839 9255 27442				
TRACK LIGHTING 125% 1238 1238 1238 1238				
GENERAL USE RECEPTACLES 125% 3333 3333 3334 10000				
MOTORS AND EQUIPMENT 125% 4454 4724 4083 13271				
WATER HEATERS 125% 4175 4175 4175 12525				
KITCHEN EQUIPMENT 100% 17780 17780 17780 53340				
FIX. ELEC. SPACE HEAT 100% 4000 4000 4000 4000				
SHOW WINDOW LIGHTS 125% 1500 1500 1500 4500				
SIGN 125% 1200 1200 1200 3600				
MISC 100% 11600 11600 9092 32292				
PHASE (TOTAL VA) 23038 23579 20687 68574				
TOTAL AMPS 186A 196A 172A VOLTAGE VOLTS X 1.732 = 185A TOTAL AMPS				

Panel E-3 NEW PANEL- 'B'		MAKE: EATON	RATING: 208/120V, 3 PHASE 4 WIRE	M.L.O. MAIN CIRCUIT BREAKER
TYPE: EBL1a		OR APPROVED EQUAL	MINIMUM AIC: VERIFY	EQUIPMENT GROUND BUS SERVICE ENTRY RATED <input type="checkbox"/> YES <input type="checkbox"/> NO
LOAD SERVICE	CKT BRKR	WATTS PER PHASE A B C	NEUTRAL A B C	LOAD SERVICE
REC: SHIPPING,PARTS	20A	720		1 720
REC: SHIPPING,PARTS	20A	720		3 4 720
REC: OFFICE	20A	720		5 6 720
REC: PARTS MANAGER	20A	720		7 8 720
REC: PARTS CALL CTR	20A	720		9 10 720
REC: PARTS CALL CTR	20A	720		11 12 720
REC: LOBBY	20A	540		13 14 900
REC: BREAK	20A	720		15 16 900
REC: RESTROOM	20A	360		17 18 720
REC: OFFICE	20A	720		19 20 900
REC: WORKOUT	20A	540		21 22 900
REC: WORKOUT	20A	540		23 24 720
REC: WORKOUT	20A	540		25 26 360
REC: WORKOUT	20A	360		27 28 900
REC: SERVICE CALL CTR	20A	900		31 32 900
REC: HR	20A	900		33 34 20A SPARE
REC: SERVICE COORD	20A	900		35 36 20A SPARE
REC: SERVICE ADMIN	20A	900		37 38 2640
REC: OFFICE	20A	720		39 40 1820
REC: OFFICE	20A	720		41 42 3480
NOTES		SUB-TOTALS 'B'	5040 4680 4320	225A BUS 6240 5780 7280 SUB-TOTALS 'A'
				225A LUGS 5040 4680 4320 SUB-TOTALS 'B'
				225A FEED 11280 10440 11880 GRAND TOTAL
		VERIFY SIZE	94A 87A 87A	AMPS/PHASE
NEC ALLOWABLE DEMAND FACTORS				
DIVERSIFIED LOAD SUMMARY				
LOAD TYPE DEMAND FACTOR				
GENERAL LIGHTING 125% 8548 9839 9255 27442				
TRACK LIGHTING 125% 1238 1238 1238 1238				
GENERAL USE RECEPTACLES 125% 3333 3333 3334 10000				
MOTORS AND EQUIPMENT 125% 4454 4724 4083 13271				
WATER HEATERS 125% 4175 4175 4175 12525				
KITCHEN EQUIPMENT 100% 17780 17780 17780 53340				
FIX. ELEC. SPACE HEAT 100% 4000 4000 4000 4000				
SHOW WINDOW LIGHTS 125% 1500 1500 1500 4500				
SIGN 125% 1200 1200 1200 3600				
MISC 100% 11600 11600 9092 32292				
PHASE (TOTAL VA) 7907 8887 8857 23451				
TOTAL AMPS 66A 67A 72A VOLTAGE VOLTS X 1.732 = 65A TOTAL AMPS				

Panel E-4 NEW PANEL- 'M'		MAKE: EATON	RATING: 208/120V, 3 PHASE 4 WIRE	M.L.O. MAIN CIRCUIT BREAKER
TYPE: EBL1a		OR APPROVED EQUAL	MINIMUM AIC: VERIFY	EQUIPMENT GROUND BUS SERVICE ENTRY RATED <input type="checkbox"/> YES <input type="checkbox"/> NO
LOAD SERVICE	CKT BRKR	WATTS PER PHASE A B C	NEUTRAL A B C	LOAD SERVICE
GPU-1	40A	2900		1 2 2900
GPU-2	50A	3340		3 4 2900
GPU-3	50A	3340		5 6 2900
GPU-4	40A	2900		7 8 4320
GPU-5	50A	3340		9 10 4320
GPU-6	50A	3340		11 12 4320
SPARE	20A			13 14 4320
SPACE	20A			15 16 4320
SPACE	20A			17 18 4320
SPACE	20A			19 20 4320
SPACE	20A			21 22 4320
SPACE	20A			23 24 4320
SPACE	20A			25 26 4320
SPACE	20A			27 28 4320
SPACE	20A			29 30 4320
NOTES		SUB-TOTALS 'B'	8580 8580 8580	225A BUS 11540 11540 11540 SUB-TOTALS 'A'
				100A LUGS 8580 8580 8580 SUB-TOTALS 'B'
				100A FEED 21120 21120 21120 GRAND TOTAL
		VERIFY SIZE	178A 178A 178A	AMPS/PHASE
NEC ALLOWABLE DEMAND FACTORS				
DIVERSIFIED LOAD SUMMARY				
LOAD TYPE DEMAND FACTOR				
GENERAL LIGHTING 125% 8548 9839 9255 27442				
TRACK LIGHTING 125% 1238 1238 1238 1238				
GENERAL USE RECEPTACLES 125% 3333 3333 3334 10000				
MOTORS AND EQUIPMENT 125% 4454 4724 4083 13271				
WATER HEATERS 125% 4175 4175 4175 12525				
KITCHEN EQUIPMENT 100% 17780 17780 17780 53340				
FIX. ELEC. SPACE HEAT 100% 4000 4000 4000 4000				
SHOW WINDOW LIGHTS 125% 1500 1500 1500 4500				
SIGN 125% 1200 1200 1200 3600				
MISC 100% 21855 21855 21855 65565				
PHASE (TOTAL VA) 51855 51855 51855 155565				
TOTAL AMPS 183A 183A 183A VOLTAGE VOLTS X 1.732 = 183A TOTAL AMPS				

Panel E-5 NEW PANEL- 'A2'		MAKE: EATON	RATING: 208/120V, 3 PHASE 4 WIRE	M.L.O. MAIN CIRCUIT BREAKER
TYPE: EBL1a		OR APPROVED EQUAL	MINIMUM AIC: VERIFY	EQUIPMENT GROUND BUS SERVICE ENTRY RATED <input type="checkbox"/> YES <input type="checkbox"/> NO
LOAD SERVICE	CKT BRKR	WATTS PER PHASE A B C	NEUTRAL A B C	LOAD SERVICE
CORD REEL	20A	1000		1 2 1500
CORD REEL	20A	1000		3 4 1500
CORD REEL	20A	1000		5 6 1500
CORD REEL	20A	1000		7 8 1500
CORD REEL	20A	1000		9 10 1500
CORD REEL	20A	1000		11 12 1500
REC: EXTERIOR	20A	360		13 14 1500
REC: EXTERIOR	20A	360		15 16 1500
SPARE	20A			17 18 1500
SPARE	20A			19 20 1500
SPARE	20A			21 22 1500
SPARE	20A			23 24 1500
SPARE	20A			25 26 1500
SPARE	20A			27 28 1500
SPARE	20A			29 30 1500
NOTES		SUB-TOTALS 'B'	2000 2000 2000	100A BUS 6000 6000 6000 SUB-TOTALS 'A'
				100A LUGS 2000 2000 2000 SUB-TOTALS 'B'
				100A FEED 8000 8000 8000 GRAND TOTAL
		VERIFY SIZE	87A 87A 87A	AMPS/PHASE
NEC ALLOWABLE DEMAND FACTORS				
DIVERSIFIED LOAD SUMMARY				
LOAD TYPE DEMAND FACTOR				
GENERAL LIGHTING 125% 8548 9839 9255 27442				
TRACK LIGHTING 125% 1238 1238 1238 1238				
GENERAL USE RECEPTACLES 125% 3333 3333 3334 10000				
MOTORS AND EQUIPMENT 125% 4454 4724 4083 13271				
WATER HEATERS 125% 4175 4175 4175 12525				
KITCHEN EQUIPMENT 100% 17780 17780 17780 53340				
FIX. ELEC. SPACE HEAT 100% 4000 4000 4000 4000				
SHOW WINDOW LIGHTS 125% 1500 1500 1500 4500				
SIGN 125% 1200 1200 1200 3600				
MISC 100% 8000 8000 8000 24000				
PHASE (TOTAL VA) 8000 8000 8000 24000				
TOTAL AMPS 87A 87A 87A VOLTAGE VOLTS X 1.732 = 87A TOTAL AMPS				

Panel E-6 NEW PANEL- 'B2'		MAKE: EATON	RATING: 208/120V, 3 PHASE 4 WIRE	M.L.O. MAIN CIRCUIT BREAKER
TYPE: EBL1a		OR APPROVED EQUAL	MINIMUM AIC: VERIFY	EQUIPMENT GROUND BUS SERVICE ENTRY RATED <input type="checkbox"/> YES <input type="checkbox"/> NO
LOAD SERVICE	CKT BRKR	WATTS PER PHASE A B C	NEUTRAL A B C	LOAD SERVICE
REC: MTP	20A	360		1 2 360
REC: IT	20A	360		3 4 180
REC: IT	20A	360		5 6 1200
REC: WAREHOUSE	20A	720		7 8 1200
REC: WAREHOUSE	20A	720		9 10 360
REC: WAREHOUSE	20A	720		11 12 1200
SPARE	20A			13 14 1200
SPACE	20A			15 16 1200
SPACE	20A			17 18 1200
SPACE	20A			19 20 1200
SPACE	20A			21 22 1200
SPACE	20A			23 24 1200
SPACE	20A			25 26 1200
SPACE	20A			27 28 1200
SPACE	20A			29 30 1200
NOTES		SUB-TOTALS 'B'	1080 1080 1080	100A BUS 1580 540 2400 SUB-TOTALS 'A'
				100A LUGS 1080 1080 1080 SUB-TOTALS 'B'
				100A FEED 2640 1820 3480 GRAND TOTAL
		VERIFY SIZE	22A 14A 28A	AMPS/PHASE
NEC ALLOWABLE DEMAND FACTORS				
DIVERSIFIED LOAD SUMMARY				
LOAD TYPE DEMAND FACTOR				
GENERAL LIGHTING 125% 8548 9839 9255 27442				
TRACK LIGHTING 125% 1238 1238 1238 1238				
GENERAL USE RECEPTACLES 125% 3333 3333 3334 10000				
MOTORS AND EQUIPMENT 125% 4454 4724 4083 13271				
WATER HEATERS 125% 4175 4175 4175 12525				
KITCHEN EQUIPMENT 100% 17780 17780 17780 53340				
FIX. ELEC. SPACE HEAT 100% 4000 4000 4000 4000				
SHOW WINDOW LIGHTS 125% 1500 1500 1500 4500				
SIGN 125% 1200 1200 1200 3600				
MISC 100% 2840 1820 3480 7740				
PHASE (TOTAL VA) 2840 1820 3480 7740				
TOTAL AMPS 22A 14A 28A VOLTAGE VOLTS X 1.732 = 22A TOTAL AMPS				

EQUIPMENT WIRING SCHEDULE					
EQUIPMENT	MCA	MOCP	VOLTS	PH	WIRE SIZE
GPU-1	29.0	40A	208V	3	4-#8, 1-#10 GND IN 1" CONDUIT
GPU-2	33.0	50A	208V	3	4-#8, 1-#10 GND IN 1" CONDUIT
GPU-3	33.0	50A	208V	3	4-#8, 1-#10 GND IN 1" CONDUIT
GPU-4	29.0	40A	208V	3	4-#8, 1-#10 GND IN 1" CONDUIT
GPU-5	39.0	50A	208V	3	4-#8, 1-#10 GND IN 1" CONDUIT
GPU-6	39.0	50A	208V	3	4-#8, 1-#10 GND IN 1" CONDUIT
DHP-1	8.0A	15A	208V	1	3-#12, 1-#12 GND IN 1/2" CONDUIT

THE SERVICE GROUNDS AND TROUGH CASE GROUND TOGETHER (PER NEC 250-58). THE TROUGH GROUND SHALL BE BONDED TO THE SERVICE NEUTRAL IN THE TROUGH. THREE SERVICE CONDUCTORS WITH ONE NEUTRAL SHALL BE RUN TO EACH SERVICE DISCONNECT. A BONDING STRAP