

]	MAGNETIC ALARM SV
0	DURESS ALARM SWIT
D	MOTION DETECTOR
D	CAPACITIVE DETECT
М	CCTV CAMERA LOCA
-H	KEYPAD ACCESS ALA
]	ELECTRIC PUSH-BUT
4	CARD READER
	ELECTRIC STRIKE
S	DOOR POSITION SWIT
1	ELECTRIC LATCH

D AT 46", UNLESS INDICATED OTHERWISE) (LOWER
TES DEVICES CONTROLLED)

RIP RATING AS INDICATED, 3 POLE OR AS INDIC	ATED	MIS
	Ŀ	JUN
HOR LOAD INTERRUPTER SWITCH, CURRENT D, 3 POLE OR AS INDICATED	\bigcirc	JUN
	ч©	CLO
ID FAULT INTERRUPTER	Q	MO
	•@	10' E
ING AND TYPE WHEN INDICATED	ΓŢ	CAB STU
CRIPTION AS NOTED OR PER SCHEDULE		CON
MER		CON
	\sim	FLE

ABBREVIATIONS:

AFF = ABOVE FINISHED FLOOR AFG = ABOVE FINISHED GRADE AFL = ABOVE FINISHED LANDING GFI = GROUND FAULT INTERRUPTER IG = ISOLATED GROUND **UIO = UNLESS INDICATED OTHERWISE** WP = WEATHERPROOF CONSTRUCTION OF/OI = OWNER FURNISHED / OWNER INSTALLED CF/CI = CONTRACTOR FURNISHED / CONTRACTOR INSTALLED OF/CI = OWNER FURNISHED / CONTRACTOR INSTALLED TYP = TYPICAL NIC = NOT IN CONTRACT

GENERAL SYMBOLS NOTES:

1. ALL SYMBOLS MAY NOT BE USED.

2. MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR OR GRADE TO THE CENTER LINE OF THE OUTLET, DEVICE, ETC. UNLESS INDICATED OTHERWISE.

3. LARGE AMPACITY CIRCUIT DESIGNATION EXAMPLE: 4 SETS OF 3#500, #250, #1/0G, 4"C MEANS IN EACH OF FOUR 4" CONDUITS INSTALL THREE 500 kCM CONDUCTORS, ONE 250 kCM NEUTRAL AND ONE #1/0 GROUND

COLOR LEGEND:

EXISTING TO REMAIN

DEMOLISH

NEW CONSTRUCTION

LINESTYLE LEGEND:

----- DEMOLISH EXISTING TO REMAIN NEW

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- A. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION. ANY DAMAGE TO UTILITIES SHALL BE REPAIRED AT CONTRACTORS EXPENSE.
- CONDUIT ROUTING IS FOR ILLUSTRATION PURPOSES ONLY. VERIFY Β. AND COORDINATE WITH OTHER UTILITIES AND DISCIPLINES FOR PROPER ROUTING TO AVOID CONFLICTS.
- C.
- E. REFER TO DETAIL 2, SHEET E-502 FOR TRANSFORMER PAD DETAIL.

KEYED NOTES:





 $\langle 3 \rangle$

- VERIFY POWER CONNECTION REQUIREMENTS FOR BLOCK HEATER AND BATTERY CHARGER WITH GENERATOR MANUFACTURER.
- $\langle 4 \rangle$ POWER EXISTING LIFT STATION PUMP. PROVIDE POWER FROM NEW ELECTRICAL ROOM. FIELD VERIFY VOLTAGE REQUIREMENTS AND BREAKER SIZE AND TYPE AND WIRE SIZE. COORDINATE WITH OWNER.

- CONTROL SITE LIGHTING THROUGH LIGHTING CONTACTOR PANEL.
- D. REFER TO DETAIL 4, SHEET E-501 FOR GENERATOR PAD DETAIL.

- SEE LIGHT FIXTURE SCHEDULE, SHEET E-602 FOR FIXTURE TYPE P.
- MOUNT CAMERA ON POLE AND TIE INTO LIGHTING CIRCUIT L1-26.

EROJET ROCKETDYNE	17 CONTROL BUILDING AST CAMDEN, RKANSAS
Design Phase -	
	CUMENTS
No. Date	Description
	MILLIN.
A BOARD AND AND AND AND AND AND AND AND AND AN	CROMWELL ARCHITECTS/ ENGINEERS #5 WSAS-ENGINE
Notes	CROMWELL ARCHITECTS/ ENGINEERS #5 WSAS-ENSINE WSAS-ENSIN WSAS-ENSIN WSAS-ENSIN WSAS-ENSINA
Notes	CROMWELL ARCHITECTS/ ENGINEERS #5 WSAS-ENSITE WSAS-ENS
Notes 1. CROMWELL A ALL RIGHTS R 2. THIS SHEET DI CRITICAL INF BLACK AND Project Number	CROMWELL ARCHITECTS/ ENGINEERS #5 WSAS-ENGINETITION REGISTERED ROFESSIONAL ENGINEER No. 9401 S. MSE O2-20-2025 ARCHITECTS ENGINEERS, INC. ESERVED ESIGNED FOR COLOR PRINTING. ORMATION MAY BE LOST WITH WHITE PRINTING.
Notes Notes 1. CROMWELL A ALL RIGHTS R 2. THIS SHEET DI CRITICAL INF BLACK AND Project Number Issue Date	CROMWELL ARCHITECTS/ ENGINEERS #5 **** No. 34-1E 0 ARKHANSAS **** No. 9401 **** No. 9401 **** No. 9401 **** O2-20-2025 ARCHITECTS ENGINEERS, INC. ESIGNED FOR COLOR PRINTING. ORMATION MAY BE LOST WITH WHITE PRINTING. 2024-210 02-20-2025
Notes	CROMWELL ARCHITECTS/ ENGINEERS #5 *5 *5 *5 *5 *5 *5 *5 *5 *5 *5 *5 *5 *5





GENERAL NOTES:

- Α. MASTER LABEL.
- CABLE.
- EXCEED SPACING OF 25'-0".
- DEGREES.
- E.
- F. CODE(S)/STANDARD(S).
- G. SYSTEMS AS REQUIRED BY CODE(S)/STANDARD(S).
- LOCATIONS.
- LEAST 10'-0".
- Κ.
- L. ACTUAL CONDITIONS.
- ANTENNA SYSTEMS. MAKE ALL CONNECTIONS.
- OF BUILDING. PAINT TO MATCH ADJACENT SURFACE.
- О. EXISTING JOINTS WHERE APPLICABLE.
- P. DISTURBED. COORDINATE WITH AEROJET.

LIGHTNING PROTECTION LEGEND:





LIGHTNING PROTECTION DESIGN IS TO SHOW INTENT ONLY. PROVIDE A COMPLETE SYSTEM DESIGN BY A LIGHTNING PROTECTION CONTRACTOR BASED ON PLANS AND SPECIFICATIONS. PROVIDE UL MASTER LABEL ON SYSTEM. RETEST EXISTING SYSTEM AS REQUIRED TO OBTAIN MASTER LABEL. ADD SERVICE ENTRANCE SURGE SUPPRESSION OR OTHER DEVICES TO EXISTING EQUIPMENT AS REQUIRED TO ACHIEVE

ALL MATERIALS SHALL BE CLASS I, UNDERWRITERS LABORATORIES LISTED AND LABELED. LABELS TO BE ON ALL AIR TERMINALS AND AT 10' INTERVALS ON CONDUCTOR

LOCATE AIR TERMINALS AS SHOWN AND AS REQUIRED BY NFPA 780. ENSURE THAT ALL AIR TERMINALS ARE WITHIN 2'-0" OF OUTSIDE BUILDING EDGE, OUTSIDE CORNER. ENSURE AIR TERMINAL PROJECTS 10" ABOVE OBJECT PROTECTED AND THAT SPACING DOES NOT EXCEED 20'-0". AIR TERMINALS 2'-0" ABOVE OBJECT PROTECTED SHALL NOT

MAINTAIN DOWNWARD OR HORIZONTAL COURSING OF MAIN CONDUCTOR CABLE AND ENSURE THAT ALL BENDS HAVE AT LEAST AN 8" RADIUS AND DO NOT EXCEED 90

SUPPORT ALL EXPOSED CONDUCTOR CABLE AT 3'-0" ON CENTER MAXIMUM.

BOND TO WATER SERVICE AND OTHER PIPING SYSTEMS AS REQUIRED BY

INTERCONNECT LIGHTNING PROTECTION GROUND WITH OTHER BUILDING GROUND

BOND METAL BODIES ON ROOF THAT ARE OUTSIDE THE ZONE OF PROTECTION THAT ARE SUBJECT TO A DIRECT LIGHTNING STRIKE OR WHICH EXCEED THE HEIGHT OF ADJACENT AIR TERMINALS WITH MAIN SIZE CONDUCTOR CABLE. TYPICAL METAL BODIES INCLUDE BUT ARE NOT LIMITED TO: EXHAUST FANS, VENTS, HANDRAILS, AIR HANDLING UNITS, LADDERS, ANTENNAS, COOLING TOWERS, SKYLIGHTS, ETC.

ACTUAL JOBSITE CONDITIONS MAY ALTER SOME AIR TERMINAL AND GROUNDING

INSTALL GROUND ELECTRODES AS SHOWN AND AS REQUIRED BY CODE(S)/STANDARD(S) BUT IN NO INSTANCE SHALL THEY BE LESS THAN 1'-0" BELOW GRADE AND 2'-0" FROM FOUNDATION WALL. ELECTRODES SHALL PENETRATE EARTH AT

STRUCTURAL STEEL MAY BE USED AS A DOWN CONDUCTOR WHERE PERMITTED BY NFPA 780. MAKE ADDITIONAL CONNECTIONS AS REQUIRED BY NFPA 780.

ADJUST LOCATIONS IN FIELD AS REQUIRED TO COMPLY WITH NFPA 780 BASED ON

PROVIDE SURGE PROTECTION DEVICES MEETING THE REQUIREMENTS OF NFPA 780 FOR ALL POWER SERVICE ENTRANCES AND CONDUCTIVE COMMUNICATIONS SYSTEMS, AND

N. PROTECT DOWN CONDUCTORS IN CONDUIT, ENTIRE VERTICAL ROUTING ON EXTERIOR

REPAIR AREAS DISTURBED FOR GROUND ROD INSTALLATION TO EXISTING OR BETTER CONDITIONS AND GRADE PRIOR TO INSTALLATION. CUT AND REPAIR CONCRETE AT

FIBER OPTIC DATA LINE BURIED BELOW NEW BUILDING FOOTPRINT. LINE MUST NOT BE





1 LIGHTING PLAN 3/16" = 1'-0"

GENERAL NOTES:

- R OTHERWISE INDICATED.
- C. WHERE ACCESSIBLE.
- AUTOMATIC-OFF.
- DETAIL.
- DISCIPLINES.



REQUIREMENTS.

SCALE : 3/16" = 1'-0"

A. ADJUST THE QUANTITY AND LOCATIONS OF OCCUPANCY SENSORS AS NECESSARY FOR FULL ROOM COVERAGE (MAXIMUM OF 500 SQ. FT COVERAGE PER SENSOR). LOCATE SENSORS SUCH THAT THE DISTANCE BETWEEN SENSORS AND HVAC REGISTERS IS NO LESS THAN THE MINIMUM DISTANCE RECOMMENDED BY THE SENSOR MANUFACTURER.

CONNECT THE OCCUPANCY SENSORS TO CONTROL ALL NORMAL POWER LIGHT FIXTURES IN THE ROOM IN WHICH THEY ARE INSTALLED UNLESS

LOCATED POWER PACKS FOR OCCUPANCY SENSORS ABOVE CEILING

D. SET OCCUPANCY SENSORS FOR A 15-MINUTE TIME DELAY.

E. SET ALL WALL-MOUNT OCCUPANCY SENESORS TO MANUAL-ON /

F. MAKE ALL FINAL SENSITIVITY AND RANGE ADJUSTMENTS ON OCCUPANCY SENSORS PER MANUFACTURER'S INSTRUCTIONS.

G. REFER TO DETAIL 1, SHEET E-501 FOR EXTERIOR LIGHT CONTACTOR

H. MOUNT TYPE S LIGHTS AT 8'-0" AFF. COORDINATE PLACEMENT WITH OTHER

1 DUSK TO DAWN PHOTOCELL, MOUNT AND AIM PHOTOCELL PER MANUFACTURER







102

GFI WP

L1-18

(PARTIAL)

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(PARTIAL)

<u>STORG</u> 116

GENERAL NOTES:

- Α. RECOMMENDATIONS.

KEYED NOTES:

- 2 LOCATION WITH INSTALLER. $\langle 4 \rangle$
- $\langle 5 \rangle$ WITH PLUMBING.
- WITH INSTALLER
- $\langle 7 \rangle$
- $\langle 8 \rangle$
- $\langle 9 \rangle$
- $\langle 10 \rangle$ EXACT LOCATION WITH INSTALLER.
- $\langle 11 \rangle$
- **(12)** PAC-3.
- $\langle 13 \rangle$
- $\langle 14 \rangle$ INSTALLER.
- $\langle 15 \rangle$ CONSULTING.
- $\langle 16 \rangle$



EL1-26

CONTRACTOR SHALL WIRE EQUIPMENT PER MANUFACTURER INSTRUCTIONS. ALL WIRING AND CONNECTIONS SHALL BE PER MANUFACTURERS

COORDINATE ALL CONDUIT LOCATIONS WITH OTHER DISCIPLINES.

POWER INDICATED ON PLANS IS BASIS OF DESIGN. IF DIFFERENT EQUIPMENT IS USED CONTRACTOR SHALL PROVIDE POWER PER MAUNFACTURER'S RECOMMENDATIONS AT NO EXTRA CHARGE.

REFER TO SINGLE LINE FOR MECHANICAL EQUIPMENT CIRCUIT INFORMATION.

OUTDOOR POWERS INDOOR UNIT. COORDINATE WITH MECHANICAL.

DISCONNECT POWERS ELECTRIC UNIT HEATER UH-1. SEE SINGLE LINE DIAGRAM FOR MECHANICAL EQUIPMENT CIRCUIT INFORMATION. COORDINATE EXACT

JUNCTION BOX FOR FACP. COORDINATE EXACT LOCATION WITH INSTALLER.

DISCONNECT POWERS EWH-1 WATER HEATER. COORDINATE EXACT LOCATION

JUNCTION BOX FOR POWER CONNECTION TO DOOR HARDWARE/ACCESS CONTROL SYSTEM. MOUNT ABOVE DOOR. COORDINATE EXACT REQUIREMENTS

JUNCTION BOX FOR ACCESS CONTROL PANEL POWER. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH INSTALLER.

JUNCTION BOX FOR CCTV. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH INSTALLER.

FUSE CABINET FOR PAC UNITS. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH INSTALLER.

RECEPTACLE FOR ALLERTON DDC PANEL. COORDINATE MOUNTING HEIGHT AND

REMOTE GENERATOR ANNUNCIATOR PANEL. ROUTE 1" CONDUIT TO GENERATOR LOCATION. USE MANUFACTURER RECOMMENED CABLE TYPE AND SIZE.

PROVIDE A TOTAL OF 6 15A FUSES FOR OWNER'S MODIFICATIONS TO PAC-2 AND

JUNCTION BOX FOR POWER CONNECTION TO MOTORIZED ISOLATION DAMPER. COORDINATE EXACT LOCATION WITH MECHANICAL.

JUNCTION BOX TO POWER HWRP-1. COORDINATE EXACT LOCATION WITH

JUNCTION BOX FOR POWER CONNECTION IN PLC CABINET. PROVIDE BACKBOX AND 1" CONDUIT TO ABOVE CEILING. COORDINATE WITH OWNER AND R.L.

POWER CONNECTION FOR R.L. CONSULTING SERVER RACK. COORDINATE LOCATION WITH R.L. CONSULTING.





〔1〕

<u>GENERAL NOTES:</u>

NORTH

SCALE : 3/16" = 1'-0"

C. PROVIDE DATA CABLING AND PATCH PANELS FOR AEROJET NETWORK. ROUTE CABLING TO AEROJET DATA RACK. COORDINATE LOCATION WITH OWNER.

KEYED NOTES:

- DATA DROP FOR KEY BOX. COORDINATE EXACT LOCATION WITH OWNER. JUNCTION BOX FOR DATA CONNECTION IN PLC CABINET. PROVIDE BACKBOX AND 1" CONDUIT TO ABOVE CEILING. COORDINATE WITH OWNER AND R.L. CONSULTING. $\langle 2 \rangle$
- 3 CABLE TRAYS PROVIDED AND INSTALLED BY OTHERS. SHOWN FOR COORDINATION PURPOSES.
- 4 PROVIDE DATA CONNECTION TO ALLERTON DDC PANEL. COORDINATE WITH MECHANICAL.

- A. REFER TO DETAIL 1, SHEET E-502 FOR ACCESS CONTROL DOOR DETAIL. COORDINATE ALL REQUIREMENTS WITH OWNER.
- B. DATA RACKS BY OWNER AND R.L. CONSULTING. COORDINATE LOCATIONS WITH OWNER.

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Project	
AEROJET ROCKETDYNE	a I / Conirol Building East Camden, Arkansas
Design Phase –	
Revisions	~ UMENIS
No. Date	Description
A WE CHANNEL	CROMWELL ARCHITECTS/ ENGINEERS #5 NSAS-ENGINITION RECISTERED REOFESSIONAL ENGINEER No. 9401 A S. M SE OZ-20-2025
Notes	
1. CROMWELL A ALL RIGHTS RE	ARCHITECTS ENGINEERS, INC. ESERVED
2. THIS SHEET DE CRITICAL INFO BLACK AND V	ESIGNED FOR COLOR PRINTING. ORMATION MAY BE LOST WITH WHITE PRINTING.
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Sheet Number -	T101

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GRADE · • · BACKFILL PER \leftarrow SPECIFICATIONS 1" RGS TO PARKING Þ AREA LIGHTS GRADE – 3 TYPICAL UNDERGROUND RACEWAY







ITEM: DESCRIPTION

- ROD, GROUND, 3/4" X 10'-0"
- CONDUCTOR, COPPER #2/0 BARE
- CLAMP GROUND ROD
- CONNECTOR, COMPRESSION #2/0 COPPER
- CONDUIT BUSHING
- CONDUIT, POWER
- CONDUIT, CONTROLS

- 1. REINFORCING #5 BARS 12" C TO C BOTH WAYS.
- 2. WHEN INSTALLING CONDUIT DISTURB GROUND IN FOUNDATION AREA AS LITTLE AS POSSIBLE.
- 3. TOP OF FOUNDATION TO BE SMOOTH AND LEVEL. FINAL GRADE SHALL SLOPE AWAY FROM PAD.
- 4. CONCRETE SHALL BE 2500 PSI AT 28 DAYS.
- 5. CONTRACTOR TO FURNISH 1" CONDUIT UNDER PAD FOR GROUND WIRE .
- 6. OPENING SHALL BE PROVIDED FOR CONDUIT AS SHOWN. CONDUIT SHALL NOT BE CONCRETED IN. CONTRACTOR SHALL VERIFY DIMESNTIONS OF OPENING AND REQUIRED LOCATIONS.
- 7. STUB OUT 2'-0" BEYOND PAD.
- 8. PAD TO BE 4'-0" GREATER THAN GENERATOR HOUSING. VERIFY WITH EQUIPMENT MANUFACTURER.





FINISHED FLOOR/FINISHED GRADE

CARD ACCESS NOTES: (ELECTROMAGNETIC LOCK OR ELECTRIC STRIKE APPLICATIONS)

1. PROVIDE JUNCTION BOXES, BACK BOXES AND CONDUITS WITH PULL WIRE FOR ACCESS CONTROL SYSTEM AT INDICATED DOORS. COORDINATE REQUIREMENTS AT EACH DOOR WITH OWNER'S SECURITY VENDOR, PRIOR TO ROUGH-IN.

2. ALL J-BOXES SHALL BE ACCESSIBLE.

3. MOUNT J-BOX ABOVE CEILING ON SECURE SIDE.

4. INSTALL CARD READER AT 3'-10" ABOVE FINISHED FLOOR ON UN-SECURE SIDE OF DOOR. INSTALL IN MULLION, WHERE REQUIRED.

5. ALL CONDUIT TO BE 3/4" UNLESS SPECIFIED OTHERWISE. CONCEAL CONDUIT IN STUD WALL LOCATIONS. FLEXIBLE CONDUIT MAY BE USED IF NECESSARY IN EXISTING WALLS. SURFACE MOUNT ON CMU AND IMP WALLS. REFER TO SYSTEMS GENERAL NOTE H ON ET001 FOR MORE MOUNTING INFORMATION.

6. PROVIDE REQUEST-TO-EXIT BUTTON (FOR ELECTROMAGNETIC LOCK APPLICATION) MOUNTED 3'-10" ABOVE FINISHED FLOOR ON SECURE SIDE OF DOOR.

7. PROVIDE CONDUIT FOR DOOR POSITION SWITCH.

8. COORDINATE WITH ARCHITECTURAL ELEVATIONS AND DOOR SCHEDULES FOR ACTUAL DOOR APPEARANCE AND LOCATIONS.









1. CONCRETE SHALL BE 3,000 PSI; REBAR SHALL BE SET 6" O.C. EACH WAY AND SECURELY TIED TOGETHER; MINIMUM 2" CONCRETE COVER

2. PAD SHALL BE CONSTRUCTED ON LEVEL, WELL COMPACTED SOIL TO

3. LOCATION AND ORIENTATION OF PAD, AND PLACEMENT OF CONDUIT STUB-UPS MUST BE APPROVED BY COOPERATIVE PRIOR TO

4. MINIMUM OF 10' OF CLEAR AREA TO THE FRONT AND 3' OF CLEAR AREA TO THE BACK AND SIDES OF THE TRANSFORMER REQUIRED.

5. TRANSFORMER SHALL NOT BE LOCATED IN THE EXHAUST AREA OF RADIATORS, BUILDING VENTS, AC CONDENSERS, OR OTHER HEAT PRODUCING EQUIPMENT.

6. THE EDGE OF THE PAD MUST BE WITHIN 10' OF A PARKING AREA, DRIVE, OR OTHER AREA WHICH IS READILY ACCESSIBLE TO HEAVY TRUCKS TO FACILITATE DELIVERY AND MAINTENANCE OF THE

7. IF THE TRANSFORMER IS LOCATED WITHIN 5' OF A PARKING LOT, LOADING AREA, DRIVEWAY, ETC., STEEL POSTS MUST BE SET AROUND THE TRANSFORMER TO PROTECT IT FROM TRAFFIC. THE POSTS MUST BE LOCATED AT LEAST 5' IN FRONT OF THE PAD SO THEY DO NOT OBSTRUCT THE OPENING OF THE ACCESS DOORS LOCATED ON FRONT OF THE TRANSFORMER. THE POSTS MUST BE AT LEAST 8" DIAMETER CONCRETE-FILLED STEEL PIPE, SET IN CONCRETE TO A DEPTH OF 30", EXTEND 48" ABOVE GRADE, AND SPACED NO MORE THAN 5' APART.

8. COOPERATIVE PROVIDES AND INSTALLS GROUND RODS AND CONNECTIONS FOR TRANSFORMER AT INSTALLATION.

JET ROCKETDYNE CONTROL BUILDING CAMDEN, NSAS
AST AST RKA
No. Date Description
Stamp
CROMWELL ARCHITECTS/ ENGINEERS #5 #5 #5 #5 #5 #5 #5 #6 REGISTERED REOFESSIONAL ENGINEER
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E-502





FEEDER SCHEDULE								
NUMBER	SETS	PHASE CONDUCTORS (PER SET)	NEUTRAL CONDUCTORS (PER SET)	GROUND CONDUCTORS (PER SET)	CONDUIT SIZE (PER SET)	NOTES		
	2	3#3/0	1#3/0	-	2.5"			
2	1	3#6	-	1#10	1"			
3	1	3#2	1#2	1#6	1.5"			
4	1	3#6	-	1#10	1"			
5	1	3#12	-	1#12	0.5"			
6	1	3#4/0	1#4/0	1#4	2.5"			
7	1	3#2	-	1#6	1.25"			
8	2	3#1/0	1#1/0	1#4	2"			
9	1	3#1/0	1#1/0	1#6	2"			

GENERAL NOTES-

- CONDUCTORS WITH UTILITY AND SWITCHBOARD EQUIPMENT PROVIDER.
- 2. ELECTRICAL CONTRACTOR TO COORDINATE AND PROVIDE APPROPRIATE LUG SETS AS REQUIREMENTS.
- ADJUST CONDUCTOR AND CONDUIT SIZES UPWARD PER NEC REQUIREMENTS
- FOR DERATINGS, VOLTAGE DROP, ETC. 40% FILL COLUMN.



KEYED NOTES:

- VERTIV LIEBERT EXM UPS 30KVA #47SA030DAC40758, 120/208V, 3-PHASE, OF/CI. 2 VERTIV MAINTENANCE BYPASS CABINET #47MBD32CC0R1UWZ, 120/208V, 3-PHASE, OF/CI. $\langle 3 \rangle$
 - CIRCUIT BREAKER AND CONDUCTOR SIZES PER MANUFACTURER'S RECOMMENDATIONS.





1. ELECTRICAL CONTRACTOR TO COORDINATE THE MAXIMUM NO. OF SETS OF SERVICE ENTRANCE

REQUIRED FOR ALL TERMINATIONS SUITABLE TO CONDUCTOR TYPE, WIRE SPACE, AND ALL OTHER

3. FIELD CONDITIONS OF ACTUAL INSTALLATION MAY REQUIRE ELECTRICAL CONTRACTOR TO

4. ALL RACEWAY SIZES (EMT/GRSC/PVC 40) ARE TO BE BASED ON THE NEC TABLE 4 (CHAPTER 9),

AEROJET ROCKETDYNE A17 CONTROL BUILDING EAST CAMDEN, ARKANSAS
DOCUMENTS Revisions
No. Date Description
CROMWELL ARCHITECTS/ ENGINEERS #5 No. 9401 S. M.S. ENGINEER No. 9401
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2. THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING. Project Number
Issue Date
Sheet Title ELECTRICAL SINGLE-LINE DIAGRAM Sheet Number

		LIGHTING F	IXTUF	RE SCHEI	DULE		
TYPE	MANUFACTURER	CATALOG NUMBER	VOLTAGE	SOURCE	MAXIMUM FIXTURE WATTAGE	DESCRIPTION	KEYED NOTES
A	COOPER METALUX	24FP3140C	UNV	LED	30	2X4 TROFFER	
В	COOPER METALUX	22FP2140C	UNV	LED	21	2X2 TROFFER	
С	HALO	HC605D010-HM60525840-61WDC	UNV	LED	6	6" CAN LIGHT	
Р	MCGRAW-EDISON	GALN-SA4C-740-U-T4FT-BZ	UNV	LED	213	SITE LIGHTING MOUNTED ON 25FT POLE	
S	COOPER METALUX	4SNX-31SL-LW-UNV-L840-CD1 WITH AYC-CHAIN/SET-U	UNV	LED	20	4FT LED INDUSTRIAL STRIP WITH FROSTED WIDE LENS	
U	HALO	HU30M-SCTD-18-MB / HU30MUNVMSMB	UNV	LED	7	18" UNDERCABINET LIGHT	
W	LITHONIA LIGHTING	DSXW1LED-P4-40K-70CRI-T2M-MVOLT-SRM-DWHXD	MVOLT	LED	29	EXTERIOR WALL PACK	
WE	LITHONIA LIGHTING	DSXW1LED-P4-40K-70CRI-T2M-MVOLT-SRM-E20WC-DWHXD	MVOLT	LED	29	EXTERIOR WALL PACK	1
x	SURELITES	APC7RG	UNV	LED	5	COMBO EXIT/EMERGENCY LIGHT	1, 2
Z	SURELITES	SELHP100R3	UNV	LED	3	EGRESS LIGHT	

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

1. PROVIDE FLANGE KIT AS REQUIRED

LIGHTING FIXTURE SCHEDULE KEYED NOTES:

1. BATTERY BACK UP.

2. ARROWS AND FACES PER PLANS

	PANEL	ME	DP			MOUNTING	SURFA	CE	LC	CATION	ELECT	104		MAIN BUS RA	ATING 4)0	AMPS	
	MAIN	С	B			POLES	3		FRAME	400		TRIP	400					
VC	DLTAGE	480Y	//277			PHASE	3				MIN	IMUM	BREAKE	R INTERRUPTING CAP	ACITY 14	KA	_	
	AC	CESS	ORIES	S SN + E	QP GND + S	SPD											_	
	DEVICE				BRANCH	I CIRCUIT			PF	ASE LOA	/D			BRANCH CIRCUIT			DEVICE	
AMPS		тург					VOLT		V	OLT AMP	S		VOLT					AMPS
TRIP	PULES	ITPE	LOAD)	DESCRIPT	ION	AMPS	NO	A	В	С	NO	AMPS	DESCRIPTION	LOAD	ITPE	PULES	TRIP
45	3		Н	PAC-1			11917	1	13302			2	1385	UH-1	H		3	15
-	-		Н	-			11917	3		13302		4	1385	-	H		-	-
-	-		Н	-			11917	5			13302	6	1385	-	H		-	-
225	3		М	EH1			45748	7	55748			8	10000	30KVA TL1 XFMR	М		3	45
-	-		М	EH1			45748	9		55748		10	10000	-	М		-	-
-	-		М	EH1			45748	11			55748	12	10000	-	М		-	-
45	3			SPARE				13				14		SPARE			3	15
-	-			-				15				16		-			-	-
-	-			-				17				18		-			-	-
20	1			SPARE				19				20		SPARE			1	20
20	1			SPARE				21				22		SPARE			1	20
20	1			SPARE				23				24		SPARE			1	20
20	1			SPACE				25				26		SPACE			1	20
20	1			SPACE				27				28		SPACE			1	20
20	1			SPACE				29				30		SPACE			1	20
							TOTAL		69050	69050	69050		207	KVA (CONNECTED)	249	AMPS	(CONNE	ECTED)
													207	KVA (DEMAND)	249	AMPS	(DEMAN	ND)

PANEL SCHEDULE LEGEND

<u>MAIN</u> CB = CIRCUIT BREAKER LO = LUGS ONLY

<u>BRANCH CIRCUIT BREAKER TYPE</u> A = ARC FAULT CIRCUIT INTERRUPTER

- G = GROUND FAULT CIRCUIT INTERRUPTER
- S = SHUNT TRIP
- V = VARIABLE (ADJUSTABLE TRIP) E = EQUIPMENT GROUND FAULT PROTECTIC
- L = LOCKOUT DEVICE
- O = LOCK ON DEVICE OR BREAKER R = RED MARKING ON BREAKER

	LOAD TYPE
	L = LIGHTING
	R = RECEPTACLE
	H = HVAC
	M = MISCELLANEOUS
	V = VARIOUS
R	S = SUBFED
	MISCELLANEOUS
ON	SN = SOLID NEUTRAL
	EQP GND = EQUIPMENT GROUND BUS
	IG = INSULATED GROUND BUS
	SPD = SURGE PROTECTIVE DEVICE

IG = INSULATED GROUND BUS
SPD = SURGE PROTECTIVE DEVICE
AIC = AMPERE INTERRUPTING CAPACITY
KAIC = KILO AMPERE INTERRUPTING CAPACITY



Sheet Number — **E-602**

ELECTRICAL

SCHEDULES

2024-210

02-20-2025

Project Number —

Issue Date –

Sheet Title —

PANEL L1		1	MOUNTING	MOUNTING SURFACE		LOCATION ELECT			104 MAIN BUS RATIN			j <u>1</u> (00	AMPS		
	MAIN	С	В	POLES	3		FRAME	100		TRIP	100					
VO	LTAGE	208Y	′/120	PHASE	3		-		MIN	IMUM	BREAK	ER INTERRUPTING CAPACITY	í 10	KA		
ACCESSORIES SN + EQP GND																
	DEVICE			BRANCH CIRCUIT			PHASE LOAD					BRANCH CIRCUIT			DEVICE	<u>.</u>
AMPS		TVDE			VOLT		V	OLT AMPS	6		VOLT			TVDE		AMPS
TRIP	FULES	IIFE	LOAD	DESCRIPTION	AMPS	NU	A	В	С	NU	AMPS	DESCRIPTION	LOAD		FULES	TRIP
20	1		L	101 / 107 - 117 LTG	898	1	1998			2	1100	MICROWAVE BRK RM 111	R	G	1	20
20	1		L	EXT LTG	290	3		1390		4	1100	MICROWAVE BRK RM 111	R	G	1	20
20	1		R	OPEN WORK RECPTS	1080	5			2080	6	1000	REFRIG BRK RM 111	R	G	1	20
20	1		R	OPEN WORK RECPTS	1080	7	2080			8	1000	REFRIG BRK RM 111	R	G	1	20
20	1		R	OPEN WORK RECPTS	1080	9		2080		10	1000	VENDING BRK RM 111	R	G	1	20
20	1		R	BRK RM RECPT	720	11			1720	12	1000	VENDING BRK RM 111	R	G	1	20
20	1		R	COPIER	1000	13	1540			14	540	CORRIDOR RECPT	R		1	20
20	1		R	112 / 113 / 114 RECPT	540	15		1260		16	720	ELECT 104 RECPT	R		1	20
20	1		R	COFFEE MAKER BRK 111	1500	17			2040	18	540	EXTERIOR RECPTS	R		1	20
20	1		Н	EXHAUST FANS	294	19	1794			20	1500	EWH-1	М	G	2	20
20	1	G	М	HWRP-1	1680	21		3180		22	1500	-	М		-	-
20	1		R	BRK RM 111 RECPTS	720	23			900	24	180	MAINT RECPT RM 115	R		1	20
20	1		R	SERVER RECPT	180	25	606			26	426	PARKING LOT LIGHTING	L		1	20
20	1		R	ALLERTON DDC PNL REC	180	27		680		28	500	WS-1 RECPT	М	G	1	20
20	1			SPARE		29				30		SPARE			1	20
20	1			SPARE		31				32		SPARE			1	20
20	1			SPARE		33				34		SPARE			1	20
				SPACE		35				36		SPACE				
				SPACE		37				38		SPACE				
				SPACE		39				40		SPACE				
				SPACE		41				42		SPACE				
					TOTAL		8018	8590	6740		23	KVA (CONNECTED)	65	AMPS	(CONNE	ECTED)
											20	KVA (DEMAND)	56	AMPS	(DEMAN	√D)

	PANEL EL1		_1	MOUNTING	SURFA	ACE	LOCATION		ELECT	104		MAIN BUS RATING		
	MAIN	L	LO POLES				FRAME			TRIP				
VC	DLTAGE	208Y	′/120	PHASE	3				MIN	IMUM	BREAKE	ER INTERRUPTING CAPACITY	10	
	A	CCESS	ORIES	SN + EQP GND										
	DEVICE			BRANCH CIRCUIT			PH	ASE LOA	D		BRANCH CIRCUIT			
AMPS					VOLT		V(olt amps	S		VOLT			
TRIP	PULES	ITPE	LOAD	DESCRIPTION	AMPS		A	В	С	NU	AMPS	DESCRIPTION	LOAD	
20	1		R	OFFICE 102 RECPT	720	1	3008			2	2288	DFC-1 / DHP-1	H	
20	1		R	OFFICE 103 RECPT	720	3		3008		4	2288	-	H	
20	1	L	М	FACP	1000	5			3288	6	2288	DFC-2 / DHP-2	H	
20	1		R	CONTROL 106 RECPTS	1080	7	3368			8	2288	-	H	
20	1		R	CONTROL 106 RECPTS	1080	9		3056		10	1976	DFC-3 / DHP-3	H	
20	1		R	CONTROL 106 RECPTS	1080	11			3056	12	1976	-	H	
20	1		R	CONTROL 106 RECPTS	1080	13	11080			14	10000	30 KVA UPS	М	
20	1		R	CONTROL 106 RECPTS	1080	15		11080		16	10000	-	М	
20	1		R	CONTROL 106 RECPTS	1080	17			11080	18	10000	-	М	
20	1		R	CONTROL 106 RECPTS	720	19	1520			20	800	102 - 106 LTG	L	
20	1		R	SERVER 105 RECPTS	180	21		680		22	500	ACCESS CTRL/HARDWARE	М	
20	1		R	SERVER 105 RECPTS	360	23			1360	24	1000	ACCESS CONTROL PNL	M	
20	1		М	GENSET BATTERY CHARG	1200	25	1300			26	100	CCTV	М	
20	2		М	BLOCK HEATER	800	27		800		28		SPARE		
20	-		М	-	800	29			800	30		-		
20	1		Н	ISOLATION DAMPERS	100	31	100			32		SPARE		
20	1			SPARE		33				34		-		
				SPACE		35				36		SPACE		
				SPACE		37				38		SPACE		
				SPACE		39				40		SPACE		
				SPACE		41				42		SPACE		
					TOTAL		20376	18624	19584		59	KVA (CONNECTED)	163	
											59	KVA (DEMAND)	163	

PANEL SCHEDULE LEGEND

<u>MAIN</u> CB = CIRCUIT BREAKER LO = LUGS ONLY

BRANCH CIRCUIT BREAKER TYPE

A = ARC FAULT CIRCUIT INTERRUPTER

G = GROUND FAULT CIRCUIT INTERRUPTER

S = SHUNT TRIP

V = VARIABLE (ADJUSTABLE TRIP)

E = EQUIPMENT GROUND FAULT PROTECTION

L = LOCKOUT DEVICE

O = LOCK ON DEVICE OR BREAKER

R = RED MARKING ON BREAKER

<u>LOAD TYPE</u> L = LIGHTING R = RECEPTACLE H = HVAC

M = MISCELLANEOUS V = VARIOUS S = SUBFED

MISCELLANEOUS SN = SOLID NEUTRAL EQP GND = EQUIPMENT GROUND BUS IG = INSULATED GROUND BUS SPD = SURGE PROTECTIVE DEVICE AIC = AMPERE INTERRUPTING CAPACITY KAIC = KILO AMPERE INTERRUPTING CAPACITY



	PANEL	El	H1	_	MOUNTING	SURFA	ACE	LC	CATION	ELECT	104	_	MAIN BUS RATI	NG 2	25	AMPS	
	MAIN	С	В		POLES	3		FRAME	225		TRIP	225					
VC	DLTAGE	480\	(/277	-	PHASE	3	-	-		MIN	IMUN	BREAKER	INTERRUPTING CAPAC	ITY 14	KA		
	A	CCESS	ORIES	SN + EQP GND			-									_	
	DEVICE			BRANCH	I CIRCUIT			PH	IASE LOAD)			BRANCH CIRCUIT				
AMPS						VOLT		l V	OLT AMPS			VOLT					AMPS
TRIP	POLES	ITPE	LOAD	DESCRIP	ΓΙΟΝ	AMPS	NO	A	В	С	NO	AMPS	DESCRIPTION	LOAD		POLES	TRIP
20	3		Н	PAC-2 HEATING		4000	1	29000			2	25000 7	5KVA TEL1 XFMR	М		3	125
-	-		Н	-		4000	3		29000		4	25000 -		М		-	-
-	-		Н	-		4000	5			29000	6	25000 -		М		-	-
25	3		Н	PAC-2		6374	7	6374			8	S	PARE			3	20
-	-		Н	-		6374	9		6374		10	-				-	-
-	-		Н	-		6374	11			6374	12	-				-	-
20	3		Н	PAC-3 HEATING		4000	13	4000			14	S	PARE			3	20
-	-		Н			4000	15		4000		16	-				-	-
-	-		Н			4000	17			4000	18	-				-	-
25	3		Н	PAC-3		6374	19	6374			20	S	PARE			3	25
-	-		Н	-		6374	21		6374		22	-				-	-
-	-		Н	-		6374	23			6374	24	-				-	-
20	1			SPARE			25				26	S	PARE			3	25
20	1			SPARE			27				28	-				-	-
20	1			SPARE			29				30	-				-	-
20	1			SPARE			31				32	S	PARE			1	20
20	1			SPARE			33				34	S	PARE			1	20
				SPACE			35				36	S	PACE				
				SPACE			37				38	S	PACE				
				SPACE			39				40	S	PACE				
				SPACE			41				42	S	PACE				
								45748	45748	45748		137 K	VA (CONNECTED)	165	AMPS	(CONN	ECTED
												137 K	VA (DEMAND)	165	AMPS	(DEMA	ND)

MAIN CB POLES 3 FRAME 150 TRIP 150 VDLTAGE 2087/120 PHASE 3 MINIMUM BREAKER INTERRUPTING CAPACITY 10KA DEVICE BRANCH CIRCUIT PHASE LOAD PHASE LOAD VOLT AMPS NO AMPS DESCRIPTION AMPS DESCRIPTION AMPS TYPE DESCRIPTION AMPS C C RAMPS DESCRIPTION AMPS TYPE DESCRIPTION AMPS TYPE DESCRIPTION AMPS C RAMPS DESCRIPTION AMPS TYPE DESCRIPTION AMPS TYPE DESCRIPTION AMPS TYPE DESCRIPTION AMPS DESCRIPTION AMPS DESCRIPTION AMPS TYPE DESCRIPTION AMPS TYPE DESCRIPTION AMPS DESCRIPTION AMPS DESCRIPTION AMPS TYPE DESCRIPTION AMPS	PANEL ELU				MOUNTING	SURF	ACE	L	OCATION	ELECT	104		MAIN BUS RATING	1!	50	AMPS	
VOLTAGE 208Y/120 PHASE 3 MINIMUM BREAKER INTERRUPTING CAPACITY ACCESSORIES SN + EOP GND DEVICE BRANCH CIRCUIT PHASE LOAD BRANCH CIRCUIT DEVICE AMPS TOTAL A BRANCH CIRCUIT DEVICE BRANCH CIRCUIT DEVICE MOLES TYPE COAD DEVICE BRANCH CIRCUIT MOLES AMPS OLES BRANCH CIRCUIT MARE OLES CRIPTION LOAD TYPE DEVICE OLES AMPS GRIVER APU 1 1 DEVICE MMPS MMPS DEVICE OLAD SERVER APU 1 1 DEVI		MAIN	С	В	POLES	3		FRAME	150		TRIP	150				-	
ACCESSORIES SN + EQP GND DEVICE BRANCH CIRCUIT DEVICE BRANCH CIRCUIT DEVICE AMPS TYPE DAD DESCRIPTION AMPS NO A B C BRANCH CIRCUIT DEVICE AMPS MMPS DESCRIPTION LOAD TYPE POLES AMPS 30 2 SERVER APU 1 1 B C 2 GRINDER 57 PLC 3 1 20 1 20 2 SERVER APU 2 5 6 MMER 70 PLC 3 1 20	VC		208Y	//120	PHASE	3	-			MIN	IIMUM	BREAK	ER INTERRUPTING CAPACITY	10	KA		
DEVICE BRANCH CIRCUIT PHASE LOAD NO MOT MMPS DEVICE BRANCH CIRCUIT DEVICE TYPE DEVICE TYPE DESCRIPTION AMPS NO AMPS NO MOT MMPS DESCRIPTION MOD MMPS DESCRIPTION LOAD TYPE DESCRIPTION AMPS TRIP 30 2 SERVER APU 1 1 1 2 GRINDER 57 PLC 3 1 1 20 2 SERVER APU 2 5 6 MKER 70 PLC 3 1 1 20 20 1 GRINDER 20 PLC 3 9 10 MKER 74 PLC 3 1 20 20 1 MIXER 22 PLC 3 11 1 12 SPARE PLC 3 1 20 20 1 MIXER 23 PLC 3 15 16 16 SPARE PLC 3 1 20 20 1 MIXER 27 PLC 3 19 20 SPARE PLC 3 1 20 20 1 GRINDER 35 PLC 3		A	CCESS	ORIES	SN + EQP GND		_									-	
AMPS TRIP POLES TYPE IOAD DESCRIPTION AMPS NO A B C NO MAPS DESCRIPTION LOAD TYPE POLES TRIP 30 2 SERVER APU 1 1 1 2 GRINDER 57 PLC 3 1 20 2 SERVER APU 2 5 6 MIXER 70 PLC 3 1 20 20 2 SERVER APU 2 5 6 MIXER 70 PLC 3 1 20 20 1 GRINDER 20 PLC 3 9 10 MIXER 74 PLC 3 1 20 20 1 MIXER 22 PLC 3 11 12 SPARE PLC 3 1 20 20 1 MIXER 22 PLC 3 15 16 SPARE PLC 3 1 20 20 1 MIXER 24 PLC 3 15 16 SPARE PLC 3 1 20 20 1 GRINDER 27 PLC 3 21 20 SPARE PLC 3 1 20 20 1		DEVICE			BRANCH CIRCUIT			P	HASE LOA	D			BRANCH CIRCUIT				
TRIP POLES TYPE LOAD DESCRIPTION AMPS NO A B C NO AMPS C POLES TRIP 30 2 SERVER APU 1 1 1 2 GRINDER 57 PLC 3 1 20 - - - - 3 4 4 DRYER 58 PLC 3 1 20 20 2 SERVER APU 2 5 6 MIXER 7PLC 3 1 20 1 GRINDER 20 PLC 3 9 1 10 MIXER 74 PLC 3 1 20 20 1 GRINDER 20 PLC 3 11 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 20	AMPS					VOLT		l v	OLT AMPS	5		VOLT					AMPS
30 2 SERVER APU 1 1 1 2 GRINDER 57 PLC 3 1 20 - - - 3 4 DRYER 58 PLC 3 1 20 20 2 SERVER APU 2 5 6 MIXER 70 PLC 3 1 20 - - 7 8 GRINDER 74 PLC 3 1 20 20 1 GRINDER 20 PLC 3 9 10 MIXER 74 PLC 3 1 20 20 1 MIXER 22 PLC 3 11 12 SPARE PLC 3 1 20 20 1 MIXER 22 PLC 3 13 14 SPARE PLC 3 1 20 20 1 MIXER 24 PLC 3 15 16 16 SPARE PLC 3 1 20 20 1 MIXER 25 PLC 3 17 18 SPARE PLC 3 1 20 20 1 GRINDER 35 PLC 3 21 22 SPARE PLC 3 1 20 20 1 GRINDER 56 PLC 3 23 24 SPARE 1 20 20 <t< td=""><td>TRIP</td><td>POLES</td><td>IYPE</td><td>LOAD</td><td>DESCRIPTION</td><td>AMPS</td><td>NO</td><td>A</td><td>B</td><td>C</td><td>NO</td><td>AMPS</td><td>DESCRIPTION</td><td>LOAD</td><td>IYPE</td><td>POLES</td><td>TRIP</td></t<>	TRIP	POLES	IYPE	LOAD	DESCRIPTION	AMPS	NO	A	B	C	NO	AMPS	DESCRIPTION	LOAD	IYPE	POLES	TRIP
- - - 3 . 4 DRYER 58 PLC 3 1 20 20 2 SERVER APU 2 5 6 MIXER 70 PLC 3 1 20 20 1 GRINDER 20 PLC 3 9 10 MIXER 70 PLC 3 1 20 20 1 GRINDER 20 PLC 3 9 10 MIXER 114 PLC 3 1 20 20 1 MIXER 22 PLC 3 11 12 SPARE PLC 3 1 20 20 1 MIXER 23 PLC 3 15 16 SPARE PLC 3 1 20 20 1 MIXER 24 PLC 3 15 16 SPARE PLC 3 1 20 20 1 MIXER 25 PLC 3 17 18 SPARE PLC 3 1 20 20 1 GRINDER 35 PLC 3 21 22 SPARE PLC 3 1 20 20 1 GRINDER 35 PLC 3 23 24 SPARE 1 20 20 1 GRINDER 35 PLC 3 25 26 SPARE 1 20 20 <td>30</td> <td>2</td> <td></td> <td></td> <td>SERVER APU 1</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td>GRINDER 57 PLC 3</td> <td></td> <td></td> <td>1</td> <td>20</td>	30	2			SERVER APU 1		1				2		GRINDER 57 PLC 3			1	20
20 2 SERVER APU 2 5 0 6 MIXER 70 PLC 3 1 20 - - - 7 8 GRINDER 74 PLC 3 1 20 20 1 GRINDER 20 PLC 3 9 10 MIXER 14 PLC 3 1 20 20 1 MIXER 22 PLC 3 11 1 12 SPARE PLC 3 1 20 20 1 MIXER 23 PLC 3 13 14 SPARE PLC 3 1 20 20 1 MIXER 24 PLC 3 15 16 SPARE PLC 3 1 20 20 1 MIXER 25 PLC 3 17 18 SPARE PLC 3 1 20 20 1 GRINDER 35 PLC 3 21 22 SPARE PLC 3 1 20 20 1 GRINDER 36 PLC 3 21 22 SPARE PLC 3 1 20 20 1 GRINDER 36 PLC 3 23 24 SPARE 1 20 20 1 SPARGING 56 PLC 3 25 26 SPARE 2 30	-	-			-		3				4		DRYER 58 PLC 3			1	20
- - - 7 0 8 GRINDER 74 PLC 3 1 20 20 1 GRINDER 20 PLC 3 9 10 MIXER 114 PLC 3 1 20 20 1 MIXER 22 PLC 3 11 12 SPARE PLC 3 1 20 20 1 MIXER 23 PLC 3 13 14 SPARE PLC 3 1 20 20 1 MIXER 24 PLC 3 15 16 SPARE PLC 3 1 20 20 1 MIXER 25 PLC 3 17 18 SPARE PLC 3 1 20 20 1 GRINDER 27 PLC 3 19 20 SPARE PLC 3 1 20 20 1 GRINDER 35 PLC 3 21 22 SPARE PLC 3 1 20 20 1 GRINDER 35 PLC 3 23 24 SPARE 1 20 20 1 MIXER 51 PLC 3 25 26 SPARE 1 20 30 2 SPARE 31 32 SPARE 2 30 - - <td>20</td> <td>2</td> <td></td> <td></td> <td>SERVER APU 2</td> <td></td> <td>5</td> <td></td> <td></td> <td></td> <td>6</td> <td></td> <td>MIXER 70 PLC 3</td> <td></td> <td></td> <td>1</td> <td>20</td>	20	2			SERVER APU 2		5				6		MIXER 70 PLC 3			1	20
20 1 GRINDER 20 PLC 3 9 10 MIXER 114 PLC 3 1 20 20 1 MIXER 22 PLC 3 11 12 SPARE PLC 3 1 20 20 1 MIXER 23 PLC 3 13 14 SPARE PLC 3 1 20 20 1 MIXER 24 PLC 3 15 16 SPARE PLC 3 1 20 20 1 MIXER 27 PLC 3 17 18 SPARE PLC 3 1 20 20 1 GRINDER 27 PLC 3 19 20 SPARE PLC 3 1 20 20 1 GRINDER 35 PLC 3 21 22 SPARE PLC 3 1 20 20 1 MIXER 51 PLC 3 23 24 SPARE 1 20 20 1 SPAREING 56 PLC 3 25 26 SPARE 1 20 30 2 SPARE 27 28 SPARE 2 30 - - 20 30 - - - - - - - - - <td>-</td> <td>-</td> <td></td> <td></td> <td>-</td> <td></td> <td>7</td> <td></td> <td></td> <td></td> <td>8</td> <td></td> <td>GRINDER 74 PLC 3</td> <td></td> <td></td> <td>1</td> <td>20</td>	-	-			-		7				8		GRINDER 74 PLC 3			1	20
20 1 MIXER 22 PLC 3 11 12 SPARE PLC 3 1 20 20 1 MIXER 23 PLC 3 13 14 SPARE PLC 3 1 20 20 1 MIXER 24 PLC 3 15 16 SPARE PLC 3 1 20 20 1 MIXER 24 PLC 3 15 16 SPARE PLC 3 1 20 20 1 MIXER 25 PLC 3 17 18 SPARE PLC 3 1 20 20 1 GRINDER 27 PLC 3 19 20 SPARE PLC 3 1 20 20 1 GRINDER 35 PLC 3 21 22 SPARE PLC 3 1 20 20 1 GRINDER 35 PLC 3 23 24 SPARE 1 20 20 1 SPARE 51 PLC 3 25 26 SPARE 1 20 30 2 SPARE 31 33 34 - - - 30 2 SPARE 35 36 SPARE 1 20 - - -<	20	1			GRINDER 20 PLC 3		9				10		MIXER 114 PLC 3			1	20
20 1 MIXER 23 PLC 3 13 14 SPARE PLC 3 1 20 20 1 MIXER 24 PLC 3 15 16 SPARE PLC 3 1 20 20 1 MIXER 25 PLC 3 17 18 SPARE PLC 3 1 20 20 1 GRINDER 27 PLC 3 19 20 18 SPARE PLC 3 1 20 20 1 GRINDER 27 PLC 3 19 20 SPARE PLC 3 1 20 20 1 GRINDER 35 PLC 3 21 22 SPARE PLC 3 1 20 20 1 MIXER 51 PLC 3 23 24 SPARE 1 20 20 1 SPARGING 56 PLC 3 25 26 SPARE 1 20 30 2 SPARE 27 28 SPARE 2 30 - - - 33 34 - - - - 30 2 SPARE 35 36 SPARE 1 20 - - 3	20	1			MIXER 22 PLC 3		11				12		SPARE PLC 3			1	20
20 1 MIXER 24 PLC 3 15 0 16 SPARE PLC 3 1 20 20 1 MIXER 25 PLC 3 17 0 18 SPARE PLC 3 1 20 20 1 GRINDER 27 PLC 3 19 0 20 SPARE PLC 3 1 20 20 1 GRINDER 35 PLC 3 21 0 22 SPARE PLC 3 1 20 20 1 GRINDER 35 PLC 3 23 0 24 SPARE PLC 3 1 20 20 1 MIXER 51 PLC 3 23 0 24 SPARE 1 20 20 1 SPARGING 56 PLC 3 25 0 26 SPARE 1 20 30 2 SPARE 27 0 28 SPARE 22 30 - - 29 0 30 - 2 30 - - - - 20 1 SPARE 33 0 34 - 0 1 20 1 20	20	1			MIXER 23 PLC 3		13				14		SPARE PLC 3			1	20
20 1 MIXER 25 PLC 3 17 18 SPARE PLC 3 1 20 20 1 GRINDER 27 PLC 3 19 20 SPARE PLC 3 1 20 20 1 GRINDER 35 PLC 3 21 22 SPARE PLC 3 1 20 20 1 MIXER 51 PLC 3 23 24 22 SPARE PLC 3 1 20 20 1 MIXER 51 PLC 3 23 24 SPARE 1 20 20 1 SPARGING 56 PLC 3 25 26 SPARE 1 20 30 2 SPARE 27 28 SPARE 22 30 - - 29 30 -	20	1			MIXER 24 PLC 3		15				16		SPARE PLC 3			1	20
20 1 GRINDER 27 PLC 3 19 20 20 SPARE PLC 3 1 20 20 1 GRINDER 35 PLC 3 21 22 SPARE PLC 3 1 20 20 1 MIXER 51 PLC 3 23 24 24 SPARE 1 20 20 1 SPARGING 56 PLC 3 23 24 SPARE 1 20 20 1 SPARGING 56 PLC 3 25 26 SPARE 1 20 30 2 SPARE 27 28 SPARE 22 30 - - 29 30 - 2 30 - - 30 2 SPARE 31 33 34 - 2 30 - - 33 34 34 - 1 20 2 1 SPARE 35 36 SPARE 1 20 - SPACE 39 40 SPACE 1 20 - SPACE 39 40 SPACE	20	1			MIXER 25 PLC 3		17				18		SPARE PLC 3			1	20
20 1 GRINDER 35 PLC 3 21 22 SPARE PLC 3 1 20 20 1 MIXER 51 PLC 3 23 23 24 SPARE 1 20 20 1 SPARGING 56 PLC 3 25 26 26 SPARE 1 20 30 2 SPARE 27 28 SPARE 22 30 - - 29 30 2 SPARE 22 30 - - 29 30 30 - 28 SPARE 22 30 - - - 29 31 32 SPARE 22 30 - - - 33 4 34 - - - - 20 1 SPARE 35 36 SPARE 1 20 - 1 SPACE 37 38 SPACE 1 20 - 1 SPACE 39 40 SPACE 1 0 - 1 SPACE	20	1			GRINDER 27 PLC 3		19				20		SPARE PLC 3			1	20
20 1 MIXER 51 PLC 3 23 24 SPARE 1 20 20 1 SPARGING 56 PLC 3 25 26 SPARE 1 20 30 2 SPARE 27 28 SPARE 22 30 - - 29 30 <	20	1			GRINDER 35 PLC 3		21				22		SPARE PLC 3			1	20
20 1 SPARGING 56 PLC 3 25 26 SPARE 1 20 30 2 SPARE 27 28 SPARE 2 30 - - 29 30	20	1			MIXER 51 PLC 3		23				24		SPARE			1	20
30 2 SPARE 27 28 SPARE 2 30 - - 29 30 30 - - - - 30 2 SPARE 31 32 SPARE 2 30 - - - 33 - 32 SPARE 2 30 - - - 33 - 34 - - - - 20 1 SPARE 35 - 36 SPARE 1 20 - SPACE 37 - 38 SPACE 1 20 - SPACE 39 - 40 SPACE 40 SPACE 40 54 - -<	20	1			SPARGING 56 PLC 3		25				26		SPARE			1	20
- - - 29 30	30	2			SPARE		27				28		SPARE			2	30
30 2 SPARE 31 32 SPARE 2 30 - - - 33 33 34 -	-	-			-		29				30		-			-	-
- - - 33 34 - - - - 20 1 SPARE 35 36 SPARE 1 20 1 SPACE 37 38 SPACE 1 20 1 SPACE 37 38 SPACE 1 20 1 SPACE 39 40 SPACE 1 1 1 SPACE 41 42 SPACE 1 1 1 TOTAL 0 0 0 0 0 AMPS (CONNECTED) 0 MPS (DEMAND) 0 MPS (DEMAND) 0 AMPS (DEMAND) 1	30	2			SPARE		31				32		SPARE			2	30
20 1 SPARE 35 36 SPARE 1 20 1 20 SPACE 37 38 SPACE 1 20 1 20 37 38 SPACE 1 20 1 20 37 38 SPACE 1 20 1 20 39 40 SPACE 1 1 20 1 20 SPACE 41 42 SPACE 1 1 20 1 <td>-</td> <td>-</td> <td></td> <td></td> <td>-</td> <td></td> <td>33</td> <td></td> <td></td> <td></td> <td>34</td> <td></td> <td>-</td> <td></td> <td></td> <td>-</td> <td>-</td>	-	-			-		33				34		-			-	-
Image: Space 37 38 Space Image: Space <t< td=""><td>20</td><td>1</td><td></td><td></td><td>SPARE</td><td></td><td>35</td><td></td><td></td><td></td><td>36</td><td></td><td>SPARE</td><td></td><td></td><td>1</td><td>20</td></t<>	20	1			SPARE		35				36		SPARE			1	20
Image: Space 39 40 Space Image: Space <t< td=""><td></td><td></td><td></td><td></td><td>SPACE</td><td></td><td>37</td><td></td><td></td><td></td><td>38</td><td></td><td>SPACE</td><td></td><td></td><td></td><td></td></t<>					SPACE		37				38		SPACE				
Image: SPACE Image: All image:					SPACE		39				40		SPACE				
TOTAL 0 0 0 KVA (CONNECTED) 0 AMPS (CONNECTED) 0 0 0 KVA (DEMAND) 0 AMPS (DEMAND)					SPACE		41				42		SPACE				
0 KVA (DEMAND) 0 AMPS (DEMAND)						TOTAL		0	0	0		0	KVA (CONNECTED)	0	AMPS	(CONNE	ECTED)
												0	KVA (DEMAND)	0	AMPS	(DEMAN	ND)

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