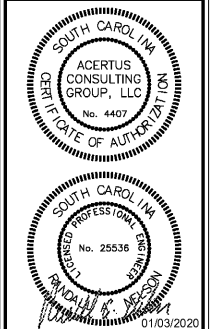


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**NEW FCAC STORE**  
 2020 ER  
 1762 STATE RD  
 SUMMERVILLE, SC



ISSUE BLOCK	
01/06/20	REV #1
PROPERTY NO.:	317910
6 DIGIT NO.:	799862
4 DIGIT NO.:	013K
AOR PROJECT NUMBER:	1955867
TO PERMIT DATE:	12-20-19
TO BID DATE:	##-##-##
SHEET TITLE: <b>POWER PLAN</b>	
SHEET NUMBER: <b>E2</b>	

**POWER PLAN GENERAL NOTES**

- ALL SWITCHES AND OTHER LIKE DEVICES TO BE 48" AFF TO TOP OF BOX, UNLESS NOTED OTHERWISE.
- ALL DEVICES LOCATED IN SERVICE AREA SHALL BE MOUNTED AT 48" AFF TO TOP OF BOX, UNLESS NOTED OTHERWISE.
- ALL DEVICES LOCATED IN THE FOLLOWING ROOMS: CUSTOMER SHOW ROOM, OFFICE, BREAK AREA, EMPLOYEE TOILET, AND UNISEX TOILET, SHALL BE MOUNTED AT 24" AFF, UNLESS NOTED OTHERWISE.
- ALL WIRING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE NEC AND LOCAL CODE AUTHORITIES HAVING JURISDICTION. ROUTING OF ALL CONDUITS, SEE "GENERAL ELECTRICAL NOTES" ON SHEET E3.
- WIRE ALL HVAC CONTROL DEVICES AND COORDINATE WITH OTHERS, SEE "GENERAL ELECTRICAL NOTES" ON SHEET E3 FOR ADDITIONAL INFORMATION.

**POWER PLAN KEYNOTES**

- JUNCTION BOX WITH TOGGLE SWITCH DISCONNECT MOUNTED AT CEILING FOR GAS FIRED RADIANT HEAT CONTROLS. CONTRACTOR TO PROVIDE ALL REQUIRED DEVICES AND EQUIPMENT TO MAKE A COMPLETE WORKING SYSTEM. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
- INTERLOCK MOTORIZED DAMPER ON "RH-1" AND "EF-1" SUCH THAT WHEN "EF-1" IS IN RUN MODE, DAMPER IS OPEN. DAMPER AND "EF-1" TO BE CONTROLLED BY "TOXALERT" SYSTEM. SEE "ONE-LINE DIAGRAM" ON SHEET E5 FOR ADDITIONAL INFORMATION.
- PROVIDE DOUBLE DUPLEX RECEPTACLE FOR "RP-1" AND "WH-1". COORDINATE LOCATION OF "WH-1" AND "RP-1" WITH PLUMBING CONTRACTOR.
- TELE-POWER POLE EXTEND POLE FROM SALES POD AND OR DESKS AS SHOWN UP TO STRUCTURE. SEE DETAIL ON SHEET E4 FOR ADDITIONAL INFORMATION. FLEX FROM POLE AND MOUNT AND WIRE DEVICES IN DESKS AS SHOWN, AND VERIFY REQUIREMENTS WITH MILLWORK VENDOR. COORDINATE EXACT POWER POLE DROP LOCATION PRIOR TO ROUGH-IN.
- REFER TO "DATA REQUIREMENTS" (THIS SHEET) FOR POWER AND CONDUIT INFORMATION IN SERVER CABINET.
- PLYWOOD BACKBOARD. SEE "TELEPHONE GROUNDING DETAIL" ON SHEET E3.
- PROVIDE 8" LONG, 2" DIAMETER PVC CONDUIT THRU WALL AS SHOWN. MOUNT CONDUIT AT SAME HEIGHT AS BOTTOM OF STRUCTURE, AND AS CLOSE AS POSSIBLE TO STRUCTURE. PROVIDE GROMMET ON BOTH ENDS OF PVC. REFER TO ARCHITECTURAL SHEETS FOR ADDITIONAL INFORMATION.
- DEDICATED LINE ISOLATED GROUND RECEPTACLE MOUNTED AT 48" ON WALL FOR WHEEL ALIGNMENT COMPUTER. COORDINATE EXACT LOCATION AND CONNECTION REQUIRED WITH OWNER. REFER TO STRUCTURAL DRAWINGS FOR UNDER SLAB CONDUIT LOCATION FROM THE ALIGNMENT PIT TO THE ALIGNMENT CONTROLLER.
- RESTROOM EXHAUST FAN. PROVIDE ALL ACCESSORIES AS REQUIRED TO CONTROL EXHAUST FAN FROM OCCUPANCY SENSORS IN RESTROOMS.
- SEE "ONE-LINE DIAGRAM" ON SHEET E5 FOR ADDITIONAL INFORMATION.
- ROUTE CORDS FOR POWER STRIPS TO RECEPTACLE SHOWN. CONCEAL ALL CORDS IN NEAT AND CLEAN MANNER.
- MOUNT RECEPTACLE ON PLYWOOD AT 48" AFF FOR TEMPORARY POWER FOR SMALL HAND TOOL BATTERY RECHARGING.
- PROVIDE 30 AMP, 2-POLE, NON-FUSED, LOCKABLE WITH LOCK PROVIDED, DISCONNECT SWITCH (SIEMENS MODEL #MMSKG1) FOR ROTARY LIFT EQUIPMENT CONTROL UNIT AT 48" AFF, UNLESS NOT ALLOWED BY AHJ. INSTALL DISCONNECT ON WALL BESIDE ALIGNMENT EQUIPMENT CONSOLE CABINET. PROVIDE ALL POWER AND SIGNAL WIRING AND CIRCUITING. CIRCUIT AS SHOWN. VERIFY ALL REQUIREMENTS WITH VENDOR. ROUTE CONDUIT FROM STRUCTURE TO DISCONNECT DOWN THE SIDE OF THE CABINET. CABINET MUST BE IN PLACE PRIOR TO CONDUIT DROP TO ENSURE CONDUIT ROUTING DOES NOT INTERFERE WITH PROPER EQUIPMENT OPERATION.
- PROVIDE 30 AMP, 2-POLE, NON-FUSED, LOCKABLE WITH LOCK PROVIDED, DISCONNECT SWITCH (SIEMENS MODEL #MMSKG1) FOR ROTARY LIFT EQUIPMENT CONTROL UNIT, UNLESS NOT ALLOWED BY AHJ. INSTALL DISCONNECT BELOW DECAL ON LIFT POST SO THAT CONDUIT AND DISCONNECT DO NOT OBSCURE ANY SAFETY DECALS. DO NOT USE "THROUGH BOLTS" AS THIS TYPE OF BOLT MAY INTERFERE WITH EQUIPMENT OPERATION. ANCHORS FOR DISCONNECT SHALL BE IN THE CENTER OF THE LIFT POST. PROVIDE ALL POWER, SIGNAL, AND LIFT SAFETY SWITCH WIRING AND CIRCUITING. CIRCUIT AS SHOWN. VERIFY ALL REQUIREMENTS WITH VENDOR. ROUTE CONDUIT FROM STRUCTURE TO DISCONNECT DOWN THE SIDE OF THE EQUIPMENT POST. LIFT EQUIPMENT MUST BE IN PLACE PRIOR TO CONDUIT DROP TO ENSURE CONDUIT ROUTING DOES NOT INTERFERE WITH PROPER EQUIPMENT OPERATION.
- PROVIDE CONDUIT WITH PULL WIRE FOR TELEPHONE SERVICE. PROVIDE CONDUIT SEAL AT 18" AFF. COORDINATE ROUTING AND TERMINATION POINTS WITH SITE UTILITIES. VERIFY EXACT REQUIREMENTS WITH LOCAL PHONE COMPANY. REFER TO CIVIL PLANS FOR MORE INFORMATION.
- REFER TO "DATA REQUIREMENTS" (THIS SHEET) FOR POWER AND CONDUIT INFORMATION IN "MVS" STATION.
- CONDUIT ASSOCIATED WITH DATA BOX SHALL BE EXTENDED TO SERVER CABINET. PROVIDE PULL STRINGS IN CONDUIT. COORDINATE WITH OTHER SERVER CONDUITS.
- TOXALERT CO SENSOR PANEL. 120 VOLT POWER CONNECTION.
- PROVIDE JUNCTION BOX FOR FIRE ALARM EQUIPMENT AND OPTIONAL SECURITY CONTROL. VERIFY EXACT ELECTRICAL CONNECTION OF EQUIPMENT IN FIELD AND PROVIDE RECEPTACLE AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH OWNER.
- PROVIDE POWER TO FACTORY MOUNTED DISCONNECT SWITCH. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR.
- MEET ALL ELECTRICAL EQUIPMENT CLEARANCES BOTH HORIZONTALLY AND VERTICALLY IN THIS SPACE.
- PROVIDE RECEPTACLE FOR "NO LOSS DAYS" SIGN AT 11'-0" AFF. VERIFY EXACT LOCATION WITH CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.
- RECEPTACLE FOR WORKSTATION FAN IS CEILING MOUNTED. CIRCUIT WILL HAVE GFCI PROTECTION AT BREAKER. SEE KEYNOTE 7 ON SHEET E1 FOR CONTROLS AND MOUNTING INFORMATION.
- CONDUIT ASSOCIATED WITH DATA BOX SHALL BE EXTENDED TO SERVER CABINET. PROVIDE PULL STRINGS IN CONDUIT. REFER TO DETAIL ON SHEET E4 FOR INFORMATION ON MOUNTING LOCATION OF DATA BOX AND POWER BEHIND DEVICES IN THIS AREA.
- PROVIDE JUNCTION BOX FOR TOXALERT SENSOR AND PROVIDE WIRING BETWEEN TOXALERT PANEL AND SENSOR. COORDINATE LOCATIONS WITH MECHANICAL CONTRACTOR.

**ELECTRICAL SHOP EQUIPMENT SCHEDULE**

ITEM #	QUANTITY	DESCRIPTION	VOLTS	PHASE	POLE	AMPS	NOTES
9	1	AIR DRYER CHAMPION #CRH35	120	1	1	20	SEE DETAIL ON SHEET E4 FOR ADDITIONAL INFORMATION. PROVIDE LOCKABLE DISCONNECT WITH LOCK. MAKE ALL FINAL POWER TERMINATIONS ADJACENT TO AIR PIPE MANIFOLD ON COMPRESSOR.
10	1	BRAKE SHOP #BL505-AB (INSTALLED BY HUNTER)	120	1	1	20	PROVIDE RECEPTACLE ON UNISTRUT LADDER. RUN CONDUIT DOWN LADDER FROM CEILING.
13A	1	ELECTRONIC WHEEL BALANCER #RFE13 (INSTALLED BY HUNTER)	208	1	2	20	PROVIDE NEMA L6-20R AT 48" AFF. RECEPTACLE SHOULD BE PLACED BEHIND CENTER CONSOLE IN ORDER TO NOT INTERFERE WITH OPENING EQUIPMENT SHROUD.
13B	1	ELECTRONIC WHEEL BALANCER #SWT33 (INSTALLED BY HUNTER)	208	1	2	20	PROVIDE NEMA L6-20R AT 48" AFF ON UNISTRUT LADDER. RUN CONDUIT DOWN LADDER FROM CEILING. RECEPTACLE SHOULD BE PLACED BEHIND CENTER CONSOLE IN ORDER TO NOT INTERFERE WITH OPENING EQUIPMENT SHROUD.
17	2	DROP CORD REEL	120	1	1	20	MOUNT TO ROOF STRUCTURE AT LOCATION SHOWN. CIRCUIT WILL HAVE GFCI PROTECTION AT BREAKER. INSTALL TO AVOID CONFLICT WITH OTHER EQUIPMENT. SEE DETAIL ON SHEET E4 FOR ADDITIONAL INFORMATION.
18B	1	TIRE CHANGER #TCR1S (INSTALLED BY HUNTER)	208	1	2	30	PROVIDE NEMA L6-30R ON UNISTRUT LADDER. RUN CONDUIT DOWN LADDER FROM CEILING.
28	2	5 HP AIR COMPRESSOR CHAMPION #VRS-8	208	3	3	30	SEE ONE-LINE DIAGRAM ON SHEET E5 AND DETAIL ON SHEET E4 FOR ADDITIONAL INFORMATION. PROVIDE LOCKABLE DISCONNECT WITH LOCK. MAKE ALL FINAL POWER TERMINATIONS ADJACENT TO AIR PIPE MANIFOLD ON COMPRESSOR.

NOTES:  
 CONTRACTOR SHALL VERIFY ALL ELECTRICAL REQUIREMENTS AND NEMA CONFIGURATIONS TO ACTUAL EQUIPMENT SUPPLIED PRIOR TO ROUGH-IN.

**DATA REQUIREMENTS**

THERE ARE A TOTAL OF EIGHT (8) LINES THAT SERVICE EACH STORE FOR PHONE AND DATA. INTERNET SERVICE VIA LOCAL CABLE SERVICE WILL BE INSTALLED POST OPENING. ALL LINES TERMINATE AT "D-MARC" BOARD IN UTILITY AREA.

PROVIDE ALL POWER AND LOW VOLTAGE CONDUITS, PER CODE, AND THIS INCLUDES OPTIONAL STATE INSPECTIONS EQUIPMENT.

CLEAR ACCESS WILL BE MAINTAINED IN ORDER FOR BSRO "IT" DEPARTMENT TO INSTALL ALL NECESSARY WIRING. BSRO "IT" DEPARTMENT WILL INSTALL ALL WIRING AND EQUIPMENT UNLESS OTHERWISE NOTED.

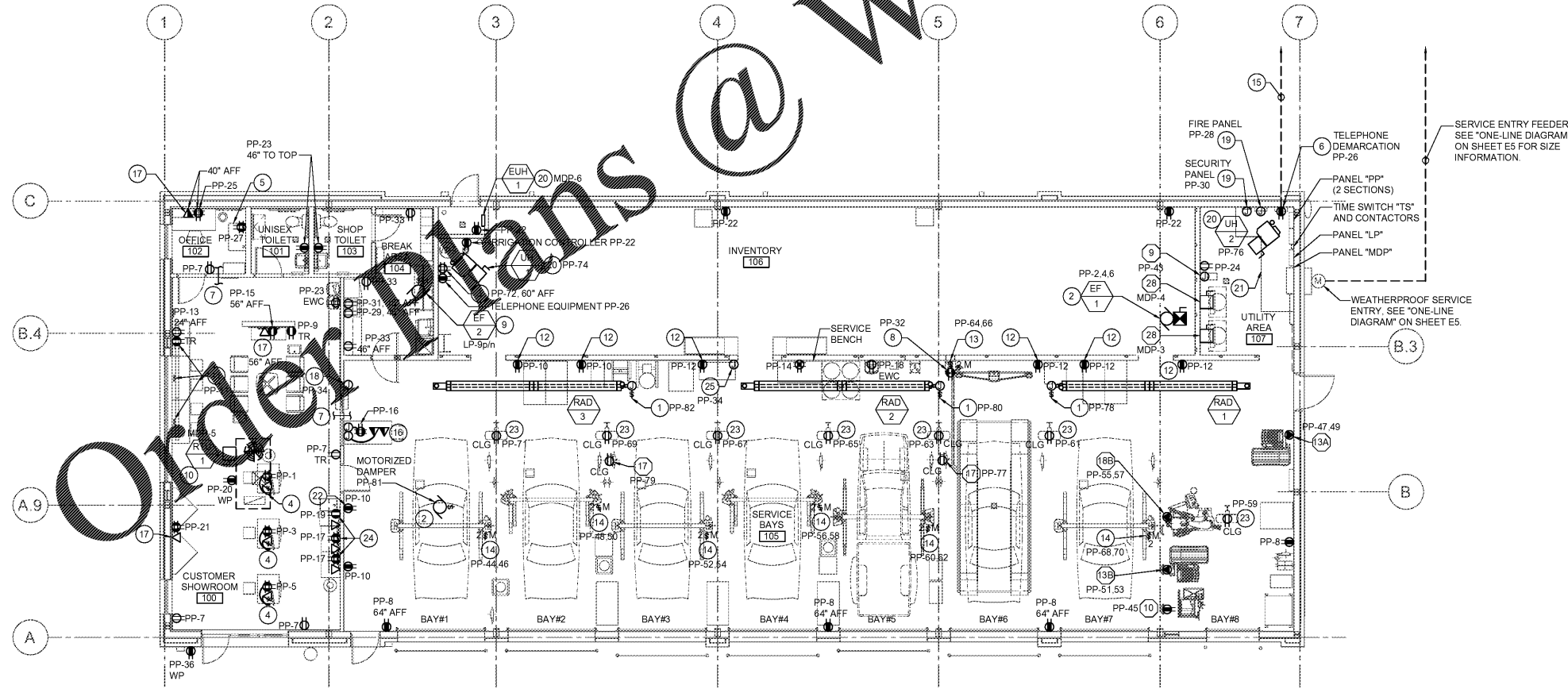
"MVS" STATION REQUIREMENTS IN SERVICE AREA:  
 INSTALL ONE (1) QUAD RECEPTACLE IN THE MIDDLE OF THE CABINET. THE POWER SHOULD TERMINATE IN A JUNCTION BOX MOUNTED ON THE WALL ADJACENT TO THE STATION. ASSOCIATED DATA BOXES SHOULD TERMINATE IN JUNCTION BOX ADJACENT TO STATION. CONDUIT ASSOCIATED WITH DATA BOX SHALL BE EXTENDED TO SERVER CABINET. PROVIDE PULL STRINGS IN CONDUIT. COORDINATE WITH OTHER SERVER CONDUITS.

"POD" REQUIREMENTS IN CUSTOMER SHOWROOM:  
 PROVIDE ONE (1) QUAD RECEPTACLE WHICH SHOULD TERMINATE IN JUNCTION BOX MOUNTED ON THE BACK SIDE OF THE PANEL, APPROXIMATELY 18" ABOVE THE BOTTOM OF CABINET AND BELOW THE LOWEST FIXED SHELF.

SERVER CABINET REQUIREMENTS IN MAIN OFFICE:  
 SERVER CABINET POWER REQUIREMENTS:  
 PROVIDE ONE (1) QUAD RECEPTACLE MOUNTED AT 11'-0" AFF AND CIRCUIT AS SHOWN. REFER TO SHEET A7 FOR MORE INFORMATION.

SERVER CABINET LEFT SIDE CONDUIT:  
 PROVIDE ONE (1) 2" CONDUIT FROM 13'-0" AFF ABOVE LEFT SIDE OF SERVER CABINET TO INVENTORY 10'-0" AFF ABOVE TELEPHONE EQUIPMENT RECEPTACLE.

UTILITY ROOM AND EXTERIOR SITE CONDUIT:  
 PROVIDE SUFFICIENT LENGTH OF 2" CONDUIT AND EXTEND THE ONE (1) 2" CONDUIT FROM THE EXTERIOR TO THE "D-MARC" LOCATION ON THE UTILITY ROOM BOARD. SEE NOTE 15.



**1 POWER PLAN**  
 SCALE: 1/8" = 1'-0"