SCHEDULE – PANELBOARD MDP TYPE: ☐ NQOD ■ I-LINE ☐ NF ☐ LDCTR VOLTAGE ■ 208/120V, 3ø, 4W, WYE ☐ 480/277V, 3ø, 4W, WYE MOUNTING: ☐ FLUSH ■ SURFACE AIC RATING 42K
1200 AMP ☐ MLO ■ MCB ACCESSORY: ☐ FEED-THRU LUGS TOTAL SPACES 24

NO.	LOAD DESCRIPTION	REMARK	BRKR AMP	BRKR ø	CIRCUIT WIRE	CIRCUIT COND	LOAD KVA A	LOAD KVA B	LOAD KVA C	LOAD KVA A	LOAD KVA B	LOAD KVA C	CIRCUIT COND	CIRCUIT WIRE	BRKR ø	BRKR AMP	REMARK	LOAD DESCRIPTION	NO.
1	PANEL "MP1"		225	3	SEE RISER	SEE RISER	16.2			47.1			SEE RISER	SEE RISER	3	400		PANEL "MP2"	2
3	" "							16.2			47.1							" "	4
5	" "								16.2			47.1						" "	6
7	PANEL "MPD"		600	3	SEE RISER	SEE RISER	50.6			9.0			SEE RISER	SEE RISER	3	150		PANEL "KLA"	8
9	" "							50.5			8.2							" "	10
11	" "								45.7			7.0						" "	12
13	PANEL "LA/LAA"		225	3	SEE RISER	SEE RISER	25.9								3	225		SPARE	14
15	" "							25.0										"	16
17	" "								26.1									"	18
19	SPD/TVSS		30	3											3	600		SPACE ONLY	20
21	"																	"	22
23	"																	"	24

CONNECTED LOAD, KVA: A 92.7 B 91.7 C 88.0 | NEUTRAL | A 56.1 B 55.3 C 54.1 CONNECTED LOAD, KVA:
KVA, THIS PANEL: A 148.8 B 147.0 C 142.1

REMARK ABBREVIATION LEGEND:
STB = SHUNT TRIP BRKR. GFI = GFI BRKR.
SFB = SUB-FEED BRKR. VFY = VERIFY LOAD

SCHEDULE – PANELBOARD MEP TYPE: ■ NQOD ☐ I-LINE ☐ NF ☐ LDCTR VOLTAGE ■ 208/120V, 3ø, 4W, WYE ☐ 480/277V, 3ø, 4W, WYE MOUNTING: ☐ FLUSH ■ SURFACE AIC RATING 42K
600 AMP ■ MLO ☐ MCB ACCESSORY: ☐ FEED-THRU LUGS TOTAL SPACES 42

NO.	LOAD DESCRIPTION	REMARK	BRKR AMP	BRKR ø	CIRCUIT WIRE	CIRCUIT COND	LOAD KVA A	LOAD KVA B	LOAD KVA C	LOAD KVA A	LOAD KVA B	LOAD KVA C	CIRCUIT COND	CIRCUIT WIRE	BRKR ø	BRKR AMP	REMARK	LOAD DESCRIPTION	NO.
1	SSHP-1		50	2	6	1	4.0			4.0			1	6	2	50		SSHP-2	2
3	"							4.0			4.0							"	4
5	SSHP-3		60	2	6	1			4.8			4.9	1	6	2	60		SSHP-4	6
7	"						4.8			4.9								"	8
9	SSHP-5		60	2	6	1		5.1			4.9		1	6	2	60		SSHP-6	10
11	"								5.1			4.9						"	12
13	SSHP-7		60	2	6	1	5.1			5.1			1	6	2	60		SSHP-8	14
15	"							5.1			5.1							"	16
17	SSHP-9		60	2	6	1			5.1			5.1	1	6	2	60		SSHP-10	18
19	"						5.1			5.1								"	20
21	SSHP-11		60	2	6	1		4.9			4.9		1	6	2	60		SSHP-12	22
23	"								4.9			4.9						"	24
25	SSHP-13		50	2	6	1	4.0			4.0			1	6	2	50		SSHP-14	26
27	"							4.0			4.0							"	28
29	EWH-1		20	2	12	3/4			1.5			1.5	3/4	12	2	20		EWH-2	30
31	"						1.5			1.5								"	32
33	EWH-3		20	2	12	3/4		1.5			1.5		3/4	12	2	20		ECH-2	34
35	"								1.5			1.5						"	36
37	ECH-1		20	2	12		1.5								2	20		SPARE	38
39	"							1.5										"	40
41	SPARE		20	1											1	20		SPARE	42

CONNECTED LOAD, KVA: A 26.0 B 26.1 C 22.9 | NEUTRAL | A 24.6 B 24.4 C 22.8 CONNECTED LOAD, KVA:
KVA, THIS PANEL: A 50.6 B 50.5 C 45.7

REMARK ABBREVIATION LEGEND:
STB = SHUNT TRIP BRKR. GFI = GFI BRKR.
SFB = SUB-FEED BRKR. VFY = VERIFY LOAD

SYMBOL	APPLICATION
M	SERVICE ENTRANCE
D	DISTRIBUTION PANEL
P	BRANCH CIRCUIT PANEL

NOTES TO SPD (SURGE PROTECTION DEVICES):

1. PROVIDE SPD AT SWITCHGEAR, SWITCH BOARDS, MOTOR CONTROL CENTERS, PANELBOARDS AND OUTLETS AS INDICATED.
2. INSTALL STRICTLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND NEC ARTICLE 285 REQUIREMENTS. LEAD LENGTHS SHALL BE EQUAL TO OR LESS THAN MANUFACTURER'S RECOMMENDED LENGTHS. PROVIDE OVERCURRENT PROTECTION IN CURRENT RATINGS AND NUMBER OF POLES PER MANUFACTURER'S INSTRUCTIONS.
3. LOCATE SPD UNITS AS NEAR TO PROTECTED GEAR AS PHYSICALLY POSSIBLE IN ORDER TO MINIMIZE LEAD LENGTH.
4. VOLTAGE RATING SHALL SUIT GEAR/DEVICES SERVED.
5. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

SCHEDULE – PANELBOARD MP1 TYPE: ■ NQOD ☐ I-LINE ☐ NF ☐ LDCTR VOLTAGE ■ 208/120V, 3ø, 4W, WYE ☐ 480/277V, 3ø, 4W, WYE MOUNTING: ☐ FLUSH ■ SURFACE AIC RATING 35K
225 AMP ■ MLO ☐ MCB ACCESSORY: ☐ FEED-THRU LUGS TOTAL SPACES 42

NO.	LOAD DESCRIPTION	REMARK	BRKR AMP	BRKR ø	CIRCUIT WIRE	CIRCUIT COND	LOAD KVA A	LOAD KVA B	LOAD KVA C	LOAD KVA A	LOAD KVA B	LOAD KVA C	CIRCUIT COND	CIRCUIT WIRE	BRKR ø	BRKR AMP	REMARK	LOAD DESCRIPTION	NO.
1	SSHP-2A		20	3	12	3/4	1.3			1.3			3/4	12	3	20		SSHP-1A	2
3	"							1.3			1.3							"	4
5	"								1.3			1.3						"	6
7	SSHP-4A		30	3	10	3/4	2.2			1.7			3/4	12	3	20		SSHP-3A	8
9	"							2.2			1.7							"	10
11	"								2.2			1.7						"	12
13	SSHP-6A		30	3	10	3/4	2.2			2.5			1	8	3	40		SSHP-5A	14
15	"							2.2			2.5							"	16
17	"								2.2			2.5						"	18
19	SSHP-8A		40	3	8	1	2.5			2.5			1	8	3	40		SSHP-7A	20
21	"							2.5			2.5							"	22
23	"								2.5			2.5						"	24
25	SPARE		40	3											3	40		SPARE	26
27	"																	"	28
29	"																	"	30
31	SPACE ONLY																	SPACE ONLY	32
33																			34
35																			36
37																			38
39																			40
41																			42

CONNECTED LOAD, KVA: A 8.2 B 8.2 C 8.2 | NEUTRAL | A 8.0 B 8.0 C 8.0 CONNECTED LOAD, KVA:
KVA, THIS PANEL: A 16.2 B 16.2 C 16.2

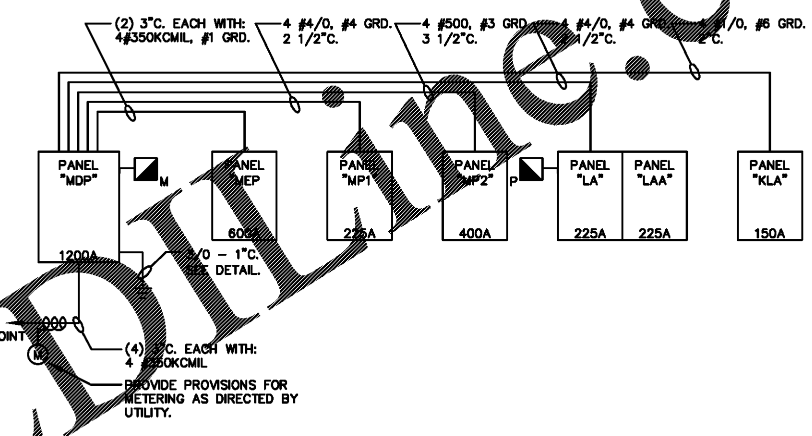
REMARK ABBREVIATION LEGEND:
STB = SHUNT TRIP BRKR. GFI = GFI BRKR.
SFB = SUB-FEED BRKR. VFY = VERIFY LOAD

SCHEDULE – PANELBOARD MP2 TYPE: ■ NQOD ☐ I-LINE ☐ NF ☐ LDCTR VOLTAGE ■ 208/120V, 3ø, 4W, WYE ☐ 480/277V, 3ø, 4W, WYE MOUNTING: ☐ FLUSH ■ SURFACE AIC RATING 35K
400 AMP ■ MLO ☐ MCB ACCESSORY: ☐ FEED-THRU LUGS TOTAL SPACES 42

NO.	LOAD DESCRIPTION	REMARK	BRKR AMP	BRKR ø	CIRCUIT WIRE	CIRCUIT COND	LOAD KVA A	LOAD KVA B	LOAD KVA C	LOAD KVA A	LOAD KVA B	LOAD KVA C	CIRCUIT COND	CIRCUIT WIRE	BRKR ø	BRKR AMP	REMARK	LOAD DESCRIPTION	NO.
1	SSHP-14A		20	3	12	3/4	1.3			2.2			3/4	10	3	30		SSHP-12A	2
3	"							1.3			2.2							"	4
5	"								1.3			2.2						"	6
7	SSHP-13A		20	3	12	3/4	1.3			2.2			3/4	10	3	30		SSHP-11A	8
9	"							1.3			2.2							"	10
11	"								1.3			2.2						"	12
13	SSHP-10A		40	3	8	1	2.5			20.1			2	3/0	3	200		DOAU-1A	14
15	"							2.5			20.1							"	16
17	"								2.5			20.1						"	18
19	SSHP-9A		40	3	8	1	2.5			15.0			2	2/0	3	175		DH-1	20
21	"							2.5			15.0							"	22
23	"								2.5			15.0						"	24
25	SPARE		40	3											3	30		SPARE	26
27	"																	"	28
29	"																	"	30
31	SPACE ONLY																	SPACE ONLY	32
33																			34
35																			36
37																			38
39																			40
41																			42

CONNECTED LOAD, KVA: A 7.6 B 7.6 C 7.6 | NEUTRAL | A 39.5 B 39.5 C 39.5 CONNECTED LOAD, KVA:
KVA, THIS PANEL: A 47.1 B 47.1 C 47.1

REMARK ABBREVIATION LEGEND:
STB = SHUNT TRIP BRKR. GFI = GFI BRKR.
SFB = SUB-FEED BRKR. VFY = VERIFY LOAD



POWER RISER DIAGRAM
SCALE: NONE

SCHEDULE – PANELBOARD LA TYPE: ■ NQOD ☐ I-LINE ☐ NF ☐ LDCTR SERVICE: ■ 208/120V, 3ø, 4W, WYE ☐ 480/277V, 3ø, 4W, WYE MOUNTING: ☐ FLUSH ■ SURFACE AIC RATING 35K
225 AMP ■ MLO ☐ MCB ACCESSORY: ■ FEED-THRU LUGS TOTAL SPACES 42

NO.	LOAD DESCRIPTION	REMARK	BRKR AMP	BRKR ø	CIRCUIT WIRE	CIRCUIT COND	LOAD KVA A	LOAD KVA B	LOAD KVA C	LOAD KVA A	LOAD KVA B	LOAD KVA C	CIRCUIT COND	CIRCUIT WIRE	BRKR ø	BRKR AMP	REMARK	LOAD DESCRIPTION	NO.
1	RECEPT		20	1	12	1/2	1.2			1.2			1/2	12	1	20		RECEPT	2
3								1.0			1.0								4
5									1.0			1.0							6
7							1.0			1.0									8
9								1.0			1.0								10
11									1.0			1.0							12
13							0.6			0.6									14
15								1.0			1.0								16
17	WATER COOLER								1.2			1.2						WATER COOLER	18
19	RECEPT						1.2			1.2								RECEPT	20
21	RECEPT							1.2			1.2								22
23	STAGE RECEPT								0.6			1.5							24
25	STAGE PROJ.						1.5			0.6									26
27	STAGE SCREEN							1.0			1.0							RP-1, RP-2	28
29	MTG. #1 SCREEN								1.0			3.0	1	8	2	40		WH-1	30
31	MTG. #2 SCREEN						1.0			3.0								"	32
33	FACP							1.0			6.0		1	6	3	60		WH-2	34
35	SPARE											6.0						"	36
37	SPD/TVSS		30	3						6.0								"	38
39	"										1.2		1/2	12	1	20		CP-1	40
41	"											1.2	1/2	12	1	20		CP-1	42

CONNECTED LOAD, KVA: A 6.5 B 6.2 C 4.8 | NEUTRAL | A 13.6 B 12.4 C 14.9 CONNECTED LOAD, KVA:
PANEL SECTIONS: ■ SECT. 1 OF 2-SECT. PANEL ☐ SECT. 2 OF 2-SECT. PANEL
KVA, THIS SECTION: A 20.1 B 18.6 C 19.7
KVA, BOTH SECTIONS: A 25.9 B 25.0 C 26.1

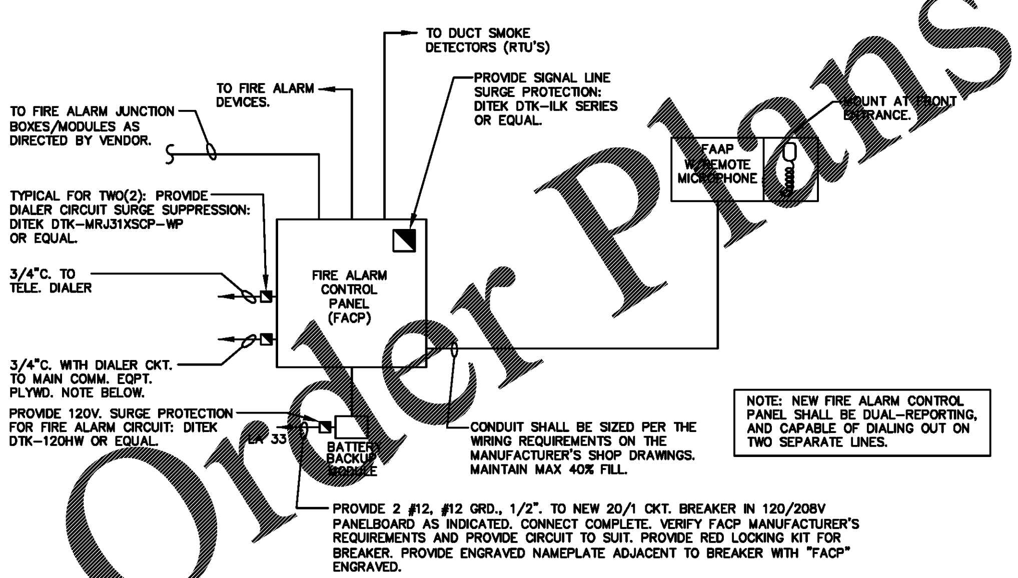
REMARK ABBREVIATION LEGEND:
STB = SHUNT TRIP BRKR. GFI = GFI BRKR.
SFB = SUB-FEED BRKR. VFY = VERIFY LOAD

SCHEDULE – PANELBOARD LAA TYPE: ■ NQOD ☐ I-LINE ☐ NF ☐ LDCTR SERVICE: ■ 208/120V, 3ø, 4W, WYE ☐ 480/277V, 3ø, 4W, WYE MOUNTING: ☐ FLUSH ■ SURFACE AIC RATING 35K
225 AMP ■ MLO ☐ MCB ACCESSORY: ☐ FEED-THRU LUGS TOTAL SPACES 42

NO.	LOAD DESCRIPTION	REMARK	BRKR AMP	BRKR ø	CIRCUIT WIRE	CIRCUIT COND	LOAD KVA A	LOAD KVA B	LOAD KVA C	LOAD KVA A	LOAD KVA B	LOAD KVA C	CIRCUIT COND	CIRCUIT WIRE	BRKR ø	BRKR AMP	REMARK	LOAD DESCRIPTION	NO.
1	LIGHTING		20	1	12	1/2	1.2			[illegible]			3/4	[illegible]	2	20		PARKING LOT LTG.	2
3								0.8			[illegible]							" "	4
5									1.0			0.5	3/4	10	2	20		E.SITE/PARK. LTG.	6
7							[illegible]			0.5								" "	8
9								0.8			0.5		3/4	10	2	20		S. SITE/PARK. LTG.	10
11									1.4			0.5						" "	12
13							0.9								1	20		SPARE	14
15								[illegible]											16
17									[illegible]										18
19							1.0												20
21								[illegible]											22
23									0.8										24
25							[illegible]												26
27								[illegible]											28
29									1.2										30
31	SPARE																		32
33																			34
35																			36
37																			38
39																			40
41																			42

CONNECTED LOAD, KVA: A [illegible].5 B 5.1 C 5.4 | NEUTRAL | A 1.3 B 1.3 C 1.0 CONNECTED LOAD, KVA:
PANEL SECTIONS: ☐ SECT. 1 OF 2-SECT. PANEL ■ SECT. 2 OF 2-SECT. PANEL
KVA, THIS SECTION: A 5.8 B 6.4 C 6.4

REMARK ABBREVIATION LEGEND:
STB = SHUNT TRIP BRKR. GFI = GFI BRKR.
SFB = SUB-FEED BRKR. VFY = VERIFY LOAD



FIRE ALARM SYSTEM RISER DIAGRAM
NO SCALE

NOTES TO FIRE ALARM RISER DIAGRAM

1. ALL WORK SHALL BE IN ACCORDANCE WITH IBC (2015), IFC (2015), NFPA 70 (2014), NFPA 72 (2013), NFPA 101 (2015), ADA AND ICC/ANSI A117.1 AND ALL LOCAL CODES AND REGULATIONS. FIRE ALARM SYSTEM SHALL MEET SCRR (SOUTH CAROLINA RULES AND REGULATIONS) 71-8300.11 AND SC FIRE MARSHAL REQUIREMENTS FOR MONITORING AND CERTIFICATION.
2. SYSTEM SHALL BE MULTIPLEX WITH INTEGRAL VOICE COMMUNICATION SYSTEM IN ACCORDANCE WITH IBC. ALL DEVICES AND SYSTEM COMPONENTS SHALL BE UL LISTED FOR APPLICATION.
3. ALL RACEWAYS SHALL BE METALLIC CONDUIT (RED COLOR), MINIMUM 3/4" SIZE.
4. PROVIDE SURGE PROTECTION FOR POWER SUPPLIES, TRANSPONDERS, EXTENDER PANELS, DIALERS, ANNUNCIATION AND INITIATING CIRCUITS. EQUIPMENT SHALL BE UL LISTED FOR APPLICATION AND INSTALLED IN ACCORDANCE WITH MANUFACTURER GUIDELINES.
5. COORDINATE WITH OWNER FOR UL APPROVED REPORTING SERVICE – OWNER WILL CONTRACT WITH REPORTING SERVICE. PROVIDE REPORTING DEVICE(S), DUAL-REPORTING TYPE, COMPATIBLE WITH AND AS APPROVED BY REPORTING SERVICE SELECTED.
6. THE OPERATION OF ANY MANUAL PULL STATION, OR ANY AUTOMATIC DETECTOR, AS REQUIRED BY IBC SHALL AUTOMATICALLY ACTIVATE THE ONE-WAY VOICE ALARM SYSTEM. ACTIVATION OF THE VOICE ALARM SYSTEM SHALL AUTOMATICALLY SOUND AN ALERT SIGNAL FOLLOWED BY VOICE INSTRUCTIONS. VOICE MESSAGES SHALL BE AS DIRECTED BY FIRE MARSHAL AND OWNER.
7. FIRESTOP ALL PENETRATIONS THRU RATED PARTITIONS AND FLOORS. USE UL LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS APPROPRIATE FOR CONSTRUCTION TYPE AND WITH RATING EQUAL TO THAT BEING PENETRATED. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND RATINGS.
8. FIELD ADJUST SMOKE DETECTOR SPACING IN CORRIDORS AS REQUIRED TO MAINTAIN MIN. 3'-0" SEPARATION FROM AIR REGISTERS. MAINTAIN MAXIMUM 30'-0" SPACING BETWEEN DETECTORS AND 3'-0" FROM DOOR HOLD OPEN DEVICES.
9. CONTRACTOR SHALL FIELD VERIFY TRANSPONDER, EXTENDER PANEL AND FIRE ALARM J-BOX LOCATIONS AND COORDINATE FINAL LOCATIONS WITH OWNER PRIOR TO ROUGHING. PROVIDE SMOKE DETECTORS AT ALL NEW CONTROL PANELS IN ACCORDANCE WITH NPFA 72.
10. CONTRACTOR SHALL COORDINATE FIRE ALARM DEVICE LOCATIONS TO AVOID CONFLICT WITH EXISTING CONDITIONS SUCH AS LOCKERS, ARTWORK, BULLETIN BOARDS, CASEWORK, STRUCTURAL COMPONENTS, BULKHEADS AND THE LIKE. ADJUST AS REQUIRED, MAINTAINING COMPLIANCE WITH NFPA 72.
11. INSTALL ALL STROBE AND COMBINATION DEVICES WITHIN 15' FROM THE END OF CORRIDORS IN ACCORDANCE WITH NFPA 72.
12. PROVIDE ELECTRICAL WORK COMPLETE FOR DOOR HOLDERS. CONNECT DOOR HOLDERS TO RELEASE UPON ACTIVAION OF RESPECTIVE LOCAL DETECTOR(S) AND TO SOUND GENERAL ALARM. DOOR HOLDERS SHALL RELEASE UPON ACTIVATION OF LOCAL DETECTOR(S) ONLY.
13. COORDINATE WITH OTHER TRADES AND FIELD VERIFY ACCESS CONTROLLED DOORS GATES AND PROVIDE ALL ASSOCIATED ELECTRICAL WORK AS REQUIRED TO RELEASE DOORS OR GATES UPON ACTIVATION OF FIRE ALARM SYSTEM IN ACCORDANCE WITH IBC AND LOCAL CODES.
14. REFER TO MECHANICAL DRAWINGS AND COORDINATE WITH MECHANICAL CONTRACTOR FOR FIRE/SMOKE DAMPERS, MECHANICAL UNIT TYPES AND CHARACTERISTICS, LOCATIONS, QUANTITIES AND FUNCTIONS. PROVIDE DUCT AND AREA DETECTORS IN COMPLIANCE WITH LOCAL CODES. MOUNTING IN DUCTS SHALL BE IN ACCORDANCE WITH CODES AND MANUFACTURER GUIDELINES. PROVIDE DETECTORS AT CONNECTIONS TO VERTICAL RETURN AIR SHAFTS PER IBC. CONNECT COMPLETE FOR AIR HANDLER SHUTDOWN IN ACCORDANCE WITH LOCAL CODES.
15. COORDINATE WITH MECHANICAL CONTRACTOR AND FIELD VERIFY LOCATIONS OF RELIEF DAMPERS, PRESSURIZATION FANS, SMOKE CONTROL FANS AND OTHER SMOKE CONTROL COMPONENTS. PROVIDE ALL REQUIRED DETECTORS, RELAYS, MODULES AND ASSOCIATED ELECTRICAL REQUIRED FOR COMPLETE INTERFACE WITH SMOKE CONTROL SYSTEMS.
16. BUILDING WILL BE SPRINKLERED. OBTAIN FIRE PROTECTION SHOP DRAWINGS AND FIELD VERIFY QUANITIES AND LOCATIONS FOR ALL FLOW SWITCHES, TAMPER SWITCHES, POST INDICATOR VALVE, FIRE/JOCKEY PUMP CONTROLLERS, AIR COMPRESSORS AND SIMILAR FIRE PROTECTION COMPONENTS. PROVIDE ALL RELAYS, MODULES, WIRING, INTERCONNECTION AND ASSOCIATED WORK AS REQUIRED IN ACCORDANCE WITH LOCAL CODES AND FIRE MARSHAL REQUIREMENTS.
17. EXISTING FIRE ALARM SYSTEM SHALL REMAIN IN OPERATION UNTIL NEW SYSTEM IS ACCEPTED BY AHJ AND FIRE MARSHAL. ALLOW IN BID FOR PHASING OF WORK AS REQUIRED.
18. 19. ALLOW IN BID FOR ADDITIONAL FIRE ALARM DEVICES TO BE LOCATED IN FIELD AS DIRECTED BY ENGINEER AS FOLLOWS:
SIX (6) ADDITIONAL HORN/STROBE DEVICES
SIX (6) ADDITIONAL SMOKE/HEAT DETECTORS
TWO (2) ADDITIONAL PULL STATIONS (WITH COVER)
20. ALL UNUSED DEVICES SHALL BE TURNED OVER TO DISTRICT AT SUBSTANTIAL COMPLETION.

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Electrical Schedules and Risers
Pinewood Community Bldg.
Richland County
Old Garners Ferry Road
Columbia, SC 29209

Drawn: - MRD/CJA Checked: - SDO
Revised: -
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