

	SHEET #	SHEET NAME	SHEET ISSUE DATE	CURRENT REV. NO.	REV. DESCRIPTION	REV. ISSUED BY	CURRENT REV
P2				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	G000	COVER	2023-10-17	0	BIDDER QUESTIONS	BIDDING	2023-12-21
<u>-</u>	_G099	PRØJECT CODE REQUIREMENTS	2023-10-17	PI	PERMITREV.	PERMITTING	2023-11-10
	G100	COMCHECK	2023-11-10	P1	PERMIT REV.	PERMITTING	2023-11-10
	G199	LEGENDS & ABBREVIATIONS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
$\vdash$	C101	SITE DEMOLITION PLAN	2023-10-17				
	C102	SITE LAYOUT PLAN	2023-10-17				
	C103	EROSION CONTROL - 1	2023-10-17				
	C104	EROSION CONTROL - 2	2023-10-17				
	C105	SITE GRADING PLAN	2023-10-17				
	C106	SITE UTILITY PLAN	2023-10-17				
	C201	SITE DETAILS - 1	2023-10-17				
	C202	SITE DETAILS - 2	2023-10-17				
	0004	OTPLICTUDAL NOTES	2002 40 47	D4	DEDMIT DEV	DEDMITTING	2002 44 40
$\vdash$	S001	STRUCTURAL NOTES	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
$\vdash$	S101	FOUNDATION PLAN	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
,	S102	SECTIONS AND DETAILS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
	$\bigcirc$						
<u>~</u> {_	AS101	ARCHITECTURAL SITE PLAN AND DETAILS	2023-10-17	0	BIDDER QUESTIONS	BIDDING	2023-12-21
L	A101	FIRST FLOOR PLAN	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
	A102	ENLARGED PLANS AND ACCESSIBLE RESTROOM REQUIREMENTS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
	A111	ROOF PLAN & DETAILS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
	A121	FIRST FLOOR RCP	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
	A201	EXTERIOR ELEVATIONS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
	A301	BUILDING SECTIONS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
	A311	WALL SECTIONS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
	A321	PLAN AND SECTION DETAILS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
	A500	OPENING SCHEDULES AND DETAILS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
	A600	3D DRAWINGS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
H	A700	INTERIOR FINISH SCHEDULE	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
L	FP001	PRELIMINARY HYDRALIC CALCULATIONS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
L	FP002	DETAILS & SPECIFICATIONS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
$\vdash$	FP101	FIRST FLOOR PLAN - FIRE PROTECTION	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
$\vdash$	P101	FIRST FLOOR PLAN - WASTE	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
	P201	FIRST FLOOR PLAN - WATER AND GAS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
	M001	SCHEDULES	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
	M101	FIRST FLOOR PLAN - HVAC	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
- 1		FLOOR PLAN-LIGHTING	2023-10-17		PERMIT-REV.	PERMITTING	2023-11-10
\	<del></del>						
	E101 E102	FLOOR PLAN - ELECTRICAL	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10

2023-09-05 P2 PERMIT REV. PERMITTING 2023-12-08

S1.0 RESOURCE

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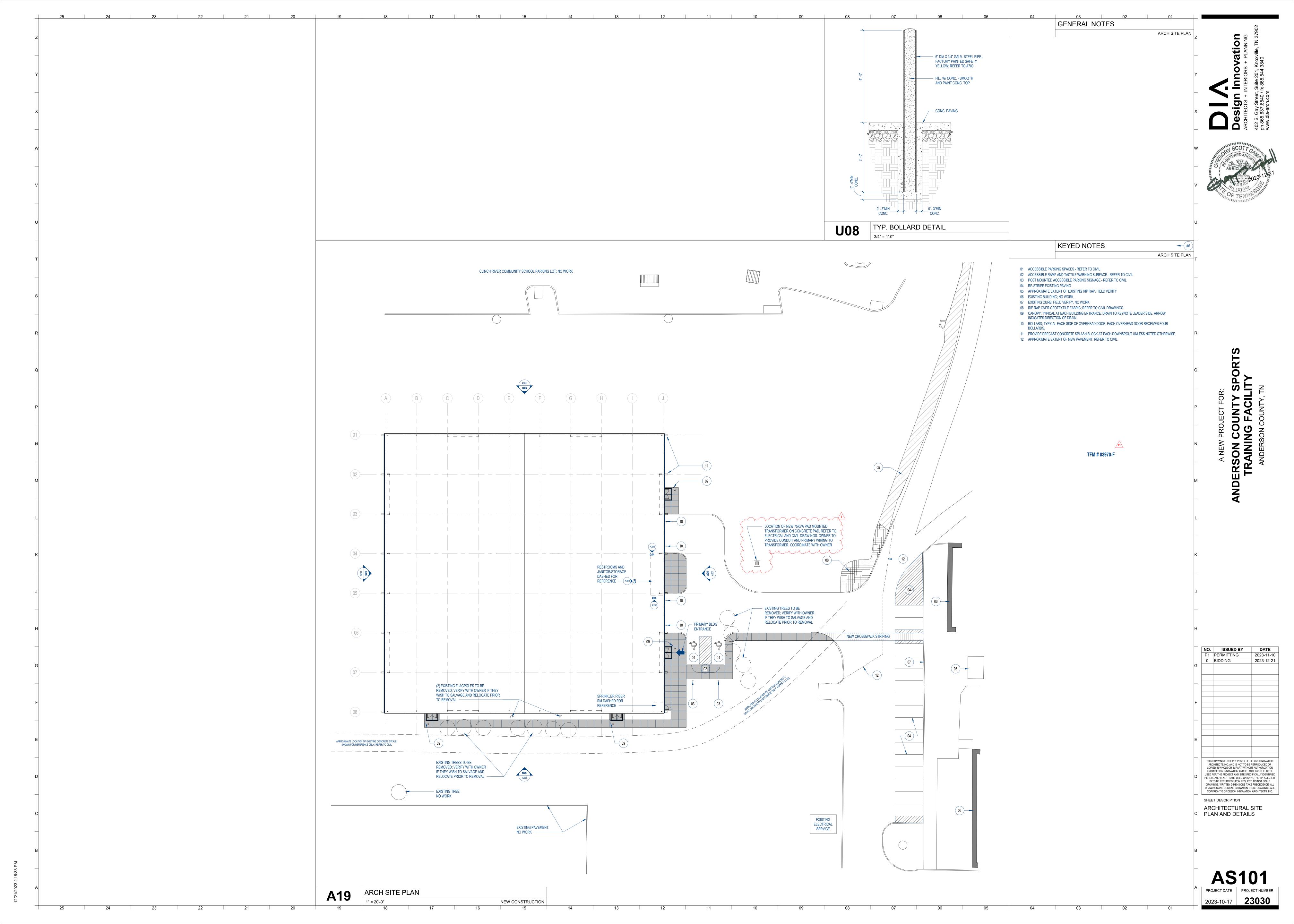
CONTACT: DAVID BLAKNEY

#### VREELAND ENGINEERS

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COVER

PROJECT SITE







 
 NO.
 ISSUED BY
 DATE

 P1
 PERMITTING
 2023-11-10
 P2 PERMITTING 2023-12-08 0 BIDDING 2023-12-21 ARCHITECTS, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IT IS TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN, AND IS NOT TO BE USED ON ANY OTHER PROJECT. IT IS TO BE RETURNED UPON REQUEST. DO NOT SCALE DRAWINGS WRITTEN DIMENSIONS TAKE PRECEDENCE ALL DRAWINGS AND DESIGNS SHOWN ON THESE DRAWINGS ARE COPYRIGHT © OF DESIGN INNOVATION ARCHITECTS, INC.

SHEET DESCRIPTION FLOOR PLAN -

ELECTRICAL

PROJECT DATE PROJECT NUMBER

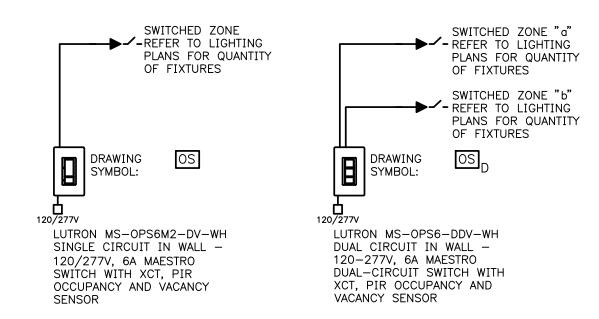
2023-10-17 **23030** 

TFM#03970-F

### FIRE ALARM RISER DIAGRAM

#### FIRE ALARM NOTES:

- .THE FIRE ALARM CONTRACTOR MUST BE CERTIFIED IN ACCORDANCE WITH THE TENNESSEE ALARM CONTRACTORS LICENSING ACT OF 1991, TCA TITLE 62, CHAPTER 32. CALL 615-741-9771 FOR ADDITIONAL INFORMATION.
- 2. CONTRACTOR SHALL SUBMIT BATTERY CALCULATIONS FOR NEW FIRE ALARM SYSTEM IN ACCORDANCE WITH REQUIREMENTS OF NFPA 72.
  BATTERY CALCULATIONS SHALL BE INCLUDED AS PART OF SUBMITTALS FOR FIRE ALARM SYSTEM.
- 3. ALL REQUIRED DOCUMENTATION REGARDING THE DESIGN OF FIRE DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS AND THE PROCEDURES FOR MAINTENANCE, INSPECTION, AND TESTING OF FIRE DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS SHALL BE MAINTAINED AT AN APPROVED, SECURED LOCATION FOR THE LIFE OF THE SYSTEM (NFPA 101 9.6.1.9 AND IFC 901.6.2.1).
- 4. THE FIRE ALARM CONTROL UNIT CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT." THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT
- 5.TWO OR MORE VISIBLE NOTIFICATION APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE FIELD OF VIEW MUST FLASH IN SYNCHRONIZATION. (NFPA 72 7.5.4.1.1 AND 7.5.4.1.2(3))
- 6. PROVIDE VOICE EVACUATION FIRE ALARM SYSTEM IN ACCORDANCE WITH PROJECT MANUAL REQUIREMENTS. VOICE EVACUATION SHALL BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS OF NFPA 72(3.3.208), NFPA 101(12.3.4, 9.6.2, 9.6.3.), AND IBC (907.2.1.1 AND 907.5.2.2). VOICE ANNOUNCEMENTS SHALL BE PRE—RECORDED AND SHALL BE AUDIBLE ABOVE AMBIENT NOISE LEVEL IN ACCORDANCE WITH CODE REQUIREMENTS. STANDBY BATTERIES IN FACP SHALL BE SIZED TO SERVE REQUIRED VOICE ANNOUNCEMENTS.
- 7. DIGITAL ALARM COMMUNICATION SYSTEMS WHERE APPLICABLE SHALL BE INSTALLED AS PER THE FOLLOWING:
- A. DIGITAL ALARM COMMUNICATOR TRANSMITTER (DACT) SHALL BE CONNECTED TO THE UL S789 LISTED EXTERNAL REMOTE SINGLE OR DUAL PATH COMMERCIAL FIRE COMMUNICATOR IN ACCORDANCE WITH NFPA 70 AND NFPA 72 REQUIREMENTS. COMMUNICATOR SHALL BE PROGRAMMED TO OPERATE OVER COMMON CELLULAR NETWORKS INCLUDING 2G, 3G, AND 4G.
- 1. SYSTEM SHALL BE CONFIGURED TO PROVIDE SELECTABLE REPORTING PATHS PER NFPA 72, CHAPTER 26. SYSTEM SUPERVISION INTERVALS SHALL BE PROVIDED TO MEET NFPA 72 CHAPTER 26 REQUIREMENTS FOR SYSTEM SUPERVISION.
- 2. SYSTEM SHALL CONTAIN A DIALER CAPTURE MODULE WHICH AUTOMATICALLY DETECTS A FIRE ALARM SYSTEM EVENT AT THE FACP AND PROVIDES A DIAL TONE TO ALLOW FACP MESSAGE TRANSMISSION TO THE CENTRAL STATION VIA THE GLOBAL SYSTEM FOR MOBILE (GSM) DIGITAL CELLULAR NETWORK IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA.



NORMAL INPUT POWER
WIRED CONNECTION

TYPICAL IN WALL SENSOR LIGHTING CONTROL DETAIL

## ELECTRICAL SPECIFICATIONS

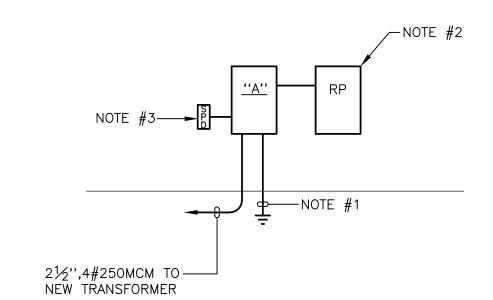
- 1. SCOPE: FURNISH PLANT, LABOR, MATERIAL, SERVICES, AND EQUIPMENT NECESSARY FOR AND REASONABLY INCIDENTAL TO THE INSTALLATION OF ELECTRICAL FACILITIES SHOWN ON THE DRAWINGS AND CALLED FOR HEREINAFTER.
- 2. CODES AND PERMITS: SECURE NECESSARY PERMITS, PAY NECESSARY FEES, CONFORM TO NATIONAL CODES.
- 3. POWER SERVICE: POWER SERVICE SHALL BE TAKEN UNDERGROUND AT 120/208-VOLTS, 3-PHASE, 4-WIRE, WYE FROM NEW PADMOUNTED TRANSFORMER AS INDICATED ON DRAWINGS AND AS SET FORTH HEREINAFTER. CAREFULLY ARRANGE POWER SERVICE WITH OWNER PRIOR TO COMMENCING WITH WORK. ALL POWER SERVICE WORK DONE ON THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH RULES AND REGULATIONS OF ANDERSON COUNTY SCHOOLS.
- 4. WIRING METHODS: UNDERGROUND POWER AND COMMUNICATION WIRING SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUIT, WITH RIGID STEEL ELBOWS UTILIZED WHERE CONDUITS TURN UP THROUGH FLOOR SLAB. EXPOSED CONDUIT ON THE EXTERIOR OF THE BUILDING SHALL BE GALVANIZED RIGID STEEL. INSIDE THE BUILDING, ALL WIRING SHALL BE RUN OVERHEAD IN ELECTRIC—METALLIC TUBING (EMT). WIRING SHALL BE RUN CONCEALED TO THE MAXIMUM EXTENT POSSIBLE. EXPOSED WIRING WILL BE PERMITTED IN MECHANICAL/ELECTRICAL ROOMS, JANITORS CLOSETS, WAREHOUSE, ETC. OTHERWISE, ALL WIRING SHALL BE RUN CONCEALED INSIDE THE BUILDING. ALL CONDUCTORS ON THE PROJECT SHALL BE COPPER WITH "THHN/THWN" INSULATION. COLOR CODE CONDUCTORS IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE REQUIREMENTS.
- 5. PANELBOARDS: FURNISH AND INSTALL NEW PANELBOARDS WHERE INDICATED ON DRAWINGS.
  NEW PANELBOARDS SHALL BE EQUAL TO SQUARE D COMPANY "NQ" SERIES WITH COPPER
  BUSING, BOLT-ON TYPE CIRCUIT BREAKERS, AND MAINS/AIC RATING AS ILLUSTRATED ON
  DRAWINGS. SIMILAR AND EQUAL EQUIPMENT BY EATON, SIEMENS, AND GENERAL ELECTRIC
  WILL BE APPROVED FOR USE. PROVIDE A TYPEWRITTEN CIRCUIT DIRECTORY IN EACH
  PANELBOARD INDICATING LOADS SERVED.
- 6. SAFETY SWITCHES: FURNISH AND INSTALL HEAVY-DUTY FUSIBLE SAFETY SWITCHES WHERE INDICATED ON DRAWINGS. SAFETY SWITCHES SHALL BE HORSEPOWER-RATED, QUICK-MAKE, QUICK-BREAK, WITH ARC SHIELDS WITH ENCLOSED CONSTRUCTION. SAFETY SWITCHES LOCATED OUTDOORS SHALL BE HOUSED IN NEMA 3R ENCLOSURES. INSIDE THE BUILDING, UTILIZE NEMA 1 ENCLOSURES FOR SAFETY SWITCHES. PROVIDE FUSING IN SAFETY SWITCHES IN ACCORDANCE WITH UNIT NAMEPLATE DATA. COORDINATE MOUNTING OF ALL SAFETY SWITCHES WITH OTHER TRADES AS REQUIRED PRIOR TO COMMENCING ROUGH-IN.
- 7. LIGHTING FIXTURES: FURNISH AND INSTALL LIGHTING FIXTURES WHERE NOTED ON DRAWINGS. REFER TO LIGHTING FIXTURE SCHEDULE AND FLOOR PLANS FOR REQUIREMENTS. EACH LIGHTING FIXTURE SHALL BE SUPPORTED FROM BUILDING STRUCTURE IN ACCORDANCE WITH CODE REQUIREMENTS. PROVIDE LAMPING FOR LIGHTING FIXTURE IN ACCORDANCE WITH LIGHTING FIXTURE SCHEDULE REQUIREMENTS.
- 8. WIRING DEVICES: FURNISH AND INSTALL WIRING DEVICES (WALL SWITCHES, DUPLEX PLUG RECEPTACLES, ETC.) WHERE INDICATED ON DRAWINGS. ALL WIRING DEVICES IN THE BUILDING SHALL BE SPECIFICATION GRADE WITH A MINIMUM RATING OF 20-AMPERES. THE USE OF 15-AMPERE DEVICES SHALL NOT BE PERMITTED. DEVICE COLOR SHALL BE AS DIRECTED BY ARCHITECT. COVERPLATES SHALL BE STAINLESS STEEL.
- 9. PADMOUNTED TRANSFORMER: TRANSFORMER SHALL BE 3-PHASE, OIL-IMMERSED, SELF-COOLED, 60HERTZ, AND 65 DEGREE RISE. PRIMARY VOLTAGE SHALL BE 13,200-VOLTS, DELTA; SECONDARY VOLTAGE SHALL BE 208Y/120. PROVIDE FOUR 2-2½% FULL CAPACITY PRIMARY TAPS, TWO\_ABOVE AND TWO BELOW RATED VOLTAGE. UNIT SHALL BE DEAD-FRONT
- 10 FIRE ALARM SYSTEM: FURNISH AND INSTALL A COMPLETE ADDRESSABLE FIRE ALARM SYSTEM FOR THE BUILDING. EQUIPMENT SPECIFIED HEREIN IS THAT BY FIRE-LITE.
- A. NEW CONTROL UNIT SHALL BE ADDRESSABLE WITH BATTERY SUPPLY, INCLUDING CHARGER. USE FIRE-LITE ES-200X.
- B. REMOTE ANNUNCIATOR SHALL BE LCD, 80—CHARACTER, FIRE—LITE MODEL NO. ANN—80.

WITH SOPPER WINDINGS.

- C. MANUAL STATIONS SHALL BE ADDRESSABLE FIRE—LITE BG—12 SERIES.
- D. CEILING-MOUNTED SMOKE DETECTORS SHALL BE ADDRESSABLE, INTELLIGENT, PHOTOELECTRIC TYPE, FIRE-LITE MODEL SD365.
- E. HEAT DETECTORS SHALL BE COMBINATION RATE-OF-RISE, FIXED TEMPERATURE TYPE.
- F. BASES FOR INTELLIGENT DETECTOR SHALL BE FIRE-LITE MODEL NO. B200S.
- G. DUCT DETECTORS SHALL BE PHOTOELECTRIC, ADDRESSABLE, INTELLIGENT TYPE, FIRE—LITE MODEL NO. D355PL. PROVIDE WEATHERPROOF HOUSINGS WHERE LOCATED OUTDOORS. PROVIDE REMOTE TEST SWITCH FOR EACH DUCT DETECTOR. EQUIP EACH DUCT DETECTOR WITH NECESSARY SAMPLING TUBES. DUCT DETECTORS WILL BE FURNISHED BY ELECTRICAL TRADE, INSTALLED IN DUCTWORK BY MECHANICAL TRADE, AND CONNECTED TO FIRE ALARM SYSTEM BY ELECTRICAL TRADE. ARRANGE FOR UNIT SHUTDOWN WITH MECHANICAL CONTRACTOR A REQUIRED. PROVIDE ADDRESSABLE MONITOR AND CONTROL MODULES AS REQUIRED.
- H. PROVIDE FLASHING STROBE LIGHTS AS INDICATED ON DRAWINGS. STROBE LIGHTS SHALL BE FIRE—LITE L—SERIES. CANDELA RATING AS NOTED ON DRAWINGS.
- I. CEILING-MOUNTED COMBINATION AUDIO/VISUAL DEVICES SHALL BE PROVIDED WHERE SHOWN. UNITS SHALL BE FIRE LITE L-SERIES WITH CANDELA RATING AS NOTED ON DRAWINGS.
- J. MONITORING MODULE UNIT SHALL BE FIRE-LITE MODEL NO. MMF-300.
- INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS. COLOR CODE ALL CONDUCTORS. ALL CONDUCTORS SHALL BE INSTALLED IN METALLIC RACEWAY SYSTEM, MINIMUM SIZE 1/2" PLENUM-RATED "OPEN" CABLING SHALL BE PERMISSIBLE ABOVE ACCESSIBLE LAY-IN CEILINGS PROVIDED THAT NEC REQUIRED SUPPORTING MEANS FOR ALL CABLING IS PROVIDED. AT COMPLETION OF WORK, PROVIDE COMPLETE TESTING OF SYSTEM. INCLUDE SUCCESSFUL TEST REPORTS AS PART OF PROJECT CLOSE-OUT DOCUMENTS.
- 11. GROUNDING: FURNISH AND INSTALL GROUNDING IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE. PROVIDE A SEPARATE CODE—SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL NEW WIRING RUNS. SEPARATE GROUNDING CONDUCTOR IS GENERALLY NOT INDICATED ON DRAWINGS BUT SHALL BE REQUIRED. GROUND EQUIPMENT AND LIGHTING FIXTURES IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE. PROVIDE SERVICE GROUNDING CONSISTING OF THREE (3) 5/8" X 8' DRIVEN COPPERWELD GROUND RODS LOCATED 15'-0" FROM EACH OTHER AND BONDED TOGETHER BY CADWELD PROCESS WITH #3/0 COPPER GROUNDING CONDUCTOR. EXTEND #3/0 AWG GROUNDING CONDUCTOR AND BOND TO SYSTEM NEUTRAL/GROUND BUS AT MAIN DISCONNECT SWITCH FOR BUILDING. ALSO, EXTEND A #2 AWG COPPER GROUNDING CONDUCTOR AND BOND TO MAIN METALLIC COLD WATER PIPE WHERE IT ENTERS BUILDINGS. GROUND BY DIRECT CONNECTION ALL INTERIOR PIPING SYSTEMS.
- 12. SUBMITTALS: PROVIDE MATERIAL FOR REVIEW BY ARCHITECT AND ENGINEER. SUBMITTALS SHALL INCLUDE MANUFACTURER'S CUT SHEETS WITH SPECIFIC MODEL NUMBERS IDENTIFIED AS THEY APPLY TO THIS PROJECT. SUBMITTALS SHALL INCLUDE LIGHTING FIXTURES, EMERGENCY LIGHTING, EXIT SIGNS, WIRING DEVICES, AND SWITCHGEAR.
- 13. GUARANTY: GUARANTEE ALL WORK TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER DATE OF FINAL ACCEPTANCE OF JOB.

#### LIGHTING FIXTURE SCHEDULE ILLUMINATION MOUNTING CEILING WALL MANUFACTURER'S **★** EQUAL DESCRIPTION: PRODUCT ITEM PRODUCT SHIELDING. REMARKS TYPE MATERIALS PERMITTED FINISH, MOUNTING COMPANY CATALOG NO. YES NO A | 309 |45000 | 5000 | 80 | +30" 2'X4' LED HIGH BAY L4DA-850-2-DYNAMICS U10-CP2-B-5/10-10Y24-OC-GYM B | 120 | 15000 | 5000 | 80 +25' | LED WALL PACK WGH3-LSCS 35 | 4500 | 4000 | 80 2'X4' LED FLAT PANEL CURRENT CFP24-41CS-+84" | 2' LED STRIP D | 24 | 2800 | 4000 | 80 CURRENT LCL-2-40ML-\* UNLESS NOTED, EQUAL PRODUCT TO THAT SPECIFIED WILL BE ACCEPTED. THE DESIGN PROFESSIONAL SHALL HAVE SOLE JUDGEMENT CONCERNING EQUIVALENCY OF SUBSTITUTION.

PAN	MAINS: MAIN BREAKER: FEEDER SIZE:	YES	SH	VOLI ORT CKT	. CAP	PHASE: PACITY: FROM:	10,00	00	5Ø,4W		EN	TNG: SURFACE ITRY: TOP BUS: COPPER	
CKT. NO.	SERVES		OAD (kV	ŕ	_	AKER		AKER		OAD (kV	ŕ	SERVES	(
	LIQUITING	ØA	øВ	øС		POLE		TRIP		øΒ	øС	55.4	$\rightarrow$
<u>1</u> 3	LIGHTING	1.2	1.0		20	2	3	20	1.3	1 7		EF-1	_
5	LIGHTING		1.2	1.2	20			<del>   </del>		1.3	1.3		
7	LIGHTING	1.2		1.2	1 20	2	3	20	1.3		1.5	EF-2	$\dashv$
9	LIGHTING	1.2	1.2		20	2	H	1 20	1.5	1.3			-+
11	Elemino		1.2	1.2	17	1	H	H		1.5	1.3		-+
13	LIGHTING	1.2		1.2	20	2	3	20	1.3		1.0	EF-3	
15			1.2		<del>                                     </del>	ΙĪ	H	1	,,,,	1.3			
17	LIGHTING			1.2	20	2	Ħ	ΙĖ			1.3		
19		1.2					3	20	1.3			EF-4	
21	LIGHTING		1.2		20	2				1.3			
23				1.2				ΤÌ			1.3		
25	LIGHTING	1.2			20	2	3	20	1.3			EF-5	
27			1.2							1.3			
29	LIGHTING			1.2	20	2					1.3		
31		1.2					3	20	1.3			EF-6	
33	LIGHTING		1.2		20	2				1.3			
35				1.2							1.3		
37	LIGHTING	1.4			20	2	2	30	2.2			WATER HEATER	
39			1.4							2.2			
41	GUH-1			0.8	20	1	2	20			0.8	EWH-1	
43	GUH-2	0.8			20	1			0.8				
45	GUH-3		0.8		20	1	2	20		0.8		EWH-2	
47	GUH-4			0.8	20	1					0.8		_
49	GUH-5	0.8	0.0		20	1	2	20	0.8	-		EWH-3	
51	GUH-6		0.8	0.0	20	1	<del>                                     </del>	1		0.8	0.0	EMIL 4	$\dashv$
53	GUH-7 GUH-8	0.8		0.8	20	1	2	20	0.8		0.8	EWH-4	$\rightarrow$
55 57	RECEPTACLES	0.8	0.8		20	1	-	20	0.8	0.0		FUTURE HVLS FAN	-+
59	RECEPTACLES		0.6	0.8	20	1	2	1 20		0.0	0.0	FUTURE HVLS FAIN	-+
61	RECEPTACLES	0.8		0.8	20	1	2	20	0.0		0.0	FUTURE HVLS FAN	-+
	RECEPTACLES	0.8	0.8		20	1	1	1 20	0.0	0.0		TOTORE TIVES TAIN	-+
65	RECEPTACLES		0.0	0.8	20	1	2	20		0.0	0.0	SPARE	
	RECEPTACLES	0.8		0.0	20	1	F	17	0.0		0.0	OT / INC	
69	RECEPTACLES	1 0.0	0.8		20	1	2	20	1	0.0		SPARE	
71	DRINKING FOUNTAIN			0.2	20	1	ΙĒ	ΤŤ		1	0.0		
	FACU	1.0			20	1	1	20	0.2		1	MOTORIZED DAMPERS	$\neg$
	EXTERIOR LIGHTING		1.0		20	1	1	20		0.2		EF-7,8,9	
	SPARE				20	1	1	20				SPARE	$\neg$
	SPARE				20	1	3	30				SURGE PROTECTION	
81	SPARE				20	1							
	SPARE				20	1							
SUB	TOTAL CONNECTED	13.6	13.6	11.4					12.6	11.8	10.2	SUB TOTAL CONNECTED	
	TOTAL CONNECTED ØA: 26.2	CUD TOTA	L CONNE	CTED ØB:	- 		CIID 1	OTAL (	CONNECTE	D ØC: 21.	6	TOTAL CONNECTED: 73.2	



FEEDER DIAGRAM

#### FEEDER NOTES:

PROVIDE GFCI BREAKER FOR CIRCUIT NO. 71.

- PROVIDE SERVICE GROUNDING, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- . PROVIDE LIGHTING RELAY PANEL, HUBBELL CX-162S16TNM. PANEL SHALL CONTAIN 16 RELAYS AND SOLID STATE PROGRAMMABLE 365-DAY ASTRONOMICAL TIMECLOCK.
- 3. PROVIDE SURGE PROTECTIVE DEVICE(SPD), INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.

T.	$\mathbb{F}$	G	$\mathbb{R}$	N	D	
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DESCRIPTION

SYMBOL

LED LIGHTING FIXTURE; "A" REFERS TO DESIGNATION IN THE LIGHTING FIXTURE SCHEDULE; "b" REFERS TO SWITCH CONTROL AND "3" REFERS TO CIRCUIT NUMBER. ASTERISK (\*) INDICATES LUMINAIRE TO BE EQUIPPED WITH BATTERY PACK FOR EGRESS LIGHTING.

LED LIGHTING FIXTURE; "B" REFERS TO DESIGNATION IN THE LIGHTING
FIXTURE SCHEDULE; "a" REFERS TO SWITCH CONTROL; AND "2" REFERS TO CIRCUIT NUMBER.

LED LIGHTING FIXTURE WITH BUILT—IN EMERGENCY BATTERY PACK TO PROVIDE LIGHTING UPON LOSS OF NORMAL POWER. PROVIDE SEPARATE UNSWITCHED ENERGIZED CONDUCTOR TO BATTERY PACK IN ORDER TO ALLOW NORMAL SWITCHING OF LIGHTING FIXTURES WITHOUT DISCHARGING BATTERY PACK.

ADDITION TO LINE AND SWITCHED CONDUCTORS.

WALL-MOUNTED TWIN-HEAD EMERGENCY LIGHTING FIXTURE, CONNECT TO UNSWITCHED LIGHTING CIRCUIT. MOUNT 7'-6" AFF EXCEPT NOT LESS THAN 6" BELOW CEILING. "WG" BY DEVICE INDICATES WIRE GUARD TO BE PROVIDED.

WALL SWITCH; SINGLE POLE UNLESS NOTED 3- OR 4-WAY; "P" INDICATES EQUIPPED WITH PILOT LIGHT TO INDICATE WHEN SWITCH IS ON; W.P. INDICATES WEATHERPROOF, "K" INDICATES KEY OPERATED SWITCH; +48"/- ABOVE FLOOR EXCEPT IN MASONRY WALLS WHERE HEIGHT SHALL BE ADJUSTED TO HAVE BOX EDGE OCCUR AT A MASONRY JOINT. PROVIDE NEUTRAL CONDUCTOR IN

LOW-VOLTAGE WALL SWITCH, SAME MOUNTING HEIGHT AS REGULAR WALL SWITCH TURN OUT CONDUIT ABOVE CEILING AND EXTEND LOW VOLTAGE WIRING TO LIGHTING RELAY OR RELAY CABINET AS REQUIRED.

EXIT SIGN WITH BUILT-IN TWIN HEAD EMERGENCY LIGHT, "W"

INDICATES WALL MOUNTING, "C" INDICATES CEILING MOUNTING, "S" INDICATES SINGLE FACE, "D" INDICATES DOUBLE FACE, "P" INDICATES PENDANT MOUNTED. PROVIDE DIRECTIONAL ARROWS ON EXIT SIGNS AS INDICATED ON PLANS. "WG" BY DEVICE INDICATES WIRE GUARD TO BE PROVIDED. UNIT EQUIPPED WITH BATTERY BACK-UP. CONNECT TO UNSWITCHED, "HOT", LIGHTING CIRCUIT.

WALL MOUNTED EXTERIOR LED EMERGENCY LIGHTING UNIT FULL CUTOFF "DARK SKY" COMPLIENT TYPE, WITH BUILT-IN NICKEL CADMIUM BATTERY FOR EMERGENCY OPERATION ONLY UPON LOSS OF NORMAL UTILITY POWER, WET LOCATION LISTED, WITH INTERNAL BATTERY HEATER. VERIFY FINISH AND EXACT MOUNTING HEIGHT WITH ARCHITECT. UNIT SHALL BE SIMILAR AND EQUAL TO MULE LIGHTING MERU-LED-EM-FIN-IH. UNIT SHALL HAVE TWO LED LAMPS FOR REDUNDANCY, TOTAL 11 WATTS.

OCCUPANCY/VACANCY SENSOR FOR LIGHTING CONTROL, CEILING OR WALL MOUNTED AS INDICATED ON PLANS. MOUNT WALL-MOUNTED SENSOR AT SAME HEIGHT AS WALL SWITCH (+48" ABOVE FINISHED FLOOR). "D" BY SENSOR ON PLANS INDICATES DUAL RELAY TYPE SENSOR ALLOWING INDEPENDENT CONTROL OF TWO SEPARATE LIGHTING LOADS. PROVIDE NEUTRAL CONDUCTOR IN ADDITION TO LINE AND SWITCHED CONDUCTORS.

DUPLEX PLUG RECEPTACLE; 120-VOLTS; 20-AMPERES; MOUNT 3" ABOVE BACKSPLASH AT WORK COUNTERS AND LAVATORIES AND +18" AFF ELSEWHERE UNLESS NOTED TO A DIFFERENT HEIGHT. TAMPER RESISTANT, UNLESS NOT REQUIRED BY CODE.

DUPLEX PLUG RECEPTACLE, 120-VOLTS, 20-AMPERES, SHADED CENTER INDICATES EQUIPPED WITH BUILT-IN GROUND FAULT CIRCUIT INTERRUPTER, MOUNT 3"

ABOVE BACKSPLASH AT WORK COUNTERS/LAVATORIES AND +18" AFF ELSEWHERE UNLESS NOTED TO A DIFFERENT HEIGHT. PROVIDE WEATHER RESISTANT DEVICE AND WEATHERPROOF "EXTRA DUTY WHILE IN USE" COVER WHERE LOCATED OUTDOORS. TAMPER RESISTANT, UNLESS NOT REQUIRED BY CODE.

SPRINKLER SYSTEM TAMPER SWITCH, CONNECT TO SEPARATE ZONE IN BUILDING FIRE ALARM SYSTEM.

SPRINKLER SYSTEM FLOW SWITCH, CONNECT TO SEPARATE ZONE IN BUILDING FIRE ALARM SYSTEM.

FIRE ALARM MANUAL PULL STATION, TOP OF BOX 48" AFF.

CEILING MOUNTED FIRE ALARM AUTOMATIC SMOKE DETECTOR, LOCATE MINIMUM 3'-0" AWAY FROM HVAC SUPPLY AND RETURN DIFFUSERS.

WALL MOUNTED FIRE ALARM CENTRAL CONTROL UNIT, TOP 6'-0" AFF.

WALL MOUNTED FIRE ALARM COMBINATION HORN/STROBE UNIT, CANDELA AND DBA RATING AS NOTED ON DRAWINGS. PROVIDE BACKBOX SUCH THAT BOTTOM OF STROBE LENS IS 81" ABOVE FINISHED FLOOR, COORDINATE BACKBOX TYPE AND EXACT MOUNTING HEIGHT WITH FIRE ALARM EQUIPMENT SUPPLIER. "WG" BY HORN/STROBE INDICATES CONTRACTOR TO PROVIDE WIRE GUARD.

PANELBOARD, RECESSED OR SURFACE MOUNTED AS INDICATED ON DRAWINGS, TOP 6-FEET ABOVE FINISHED FLOOR ADJUSTED TO OCCUR AT A MASONRY JOINT, SEE PANELBOARD SCHEDULE FOR EQUIPMENT CONTAINED.

ELECTRIC MOTOR REQUIRING CONNECTION, SIZE, USE, AND LOCATION AS

INDICATED ON PLANS, VERIFY LOCATION AND CONNECTIONS REQUIRED WITH

CONDUCTOR. SHARING OF NEUTRAL CONDUCTORS SHALL NOT BE PERMITTED.

PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN.

MECHANICAL TRADE PRIOR TO ROUGH—IN; USE FLEXIBLE CONDUIT WITHIN 18" OF EQUIPMENT.

MANUAL MOTOR STARTER TO CONTROL MOTOR INDICATED, SAME MOUNTING HEIGHT AS WALL SWITCH WHERE STARTER IS WALL MOUNTED. "2P" BY STARTER INDICATES TWO POLE STARTER TO BE PROVIDED FOR 208—VOLT,

SINGLE-PHASE EQUIPMENT.

MAGNETIC MOTOR STARTER FOR EQUIPMENT INDICATED; PROVIDE HEAVY
DUTY FUSED DISCONNECT SWITCH IN LOCATIONS WHERE STARTER IS OUT

OF SIGHT OF SUPPLYING PANELBOARD.

FUSED DISCONNECT SWITCH, HEAVY DUTY "HP" RATED, PROVIDE NEMA 3R ENCLOSURE OUTDOORS.

CONDUIT AND CONDUCTORS EXTENDED TO PANELBOARD A, CIRCUITS 1, 3, AND 5. CROSS LINES INDICATE #12 AWG PHASE AND NEUTRAL CONDUCTORS WHERE MORE THAN TWO. SINGLE CIRCUIT BRANCH CIRCUIT WIRING RUNS SHOWN WITHOUT CROSS LINES SHALL BE PROVIDED WITH 2#12, 1#12G. EACH 20 AMPERE BRANCH CIRCUIT SHALL BE PROVIDED WITH SEPARATE NEUTRAL

GAS UNIT HEATER, HP AND VOLTAGE AS INDICATED ON PLANS. PROVIDE DISCONNECT SWITCH AND CONNECT.

WALL MOUNTED FIRE ALARM COMBINATION SPEAKER/STROBE UNIT, CANDELA AND DBA RATING AS NOTED ON DRAWINGS. PROVIDE BACKBOX SUCH THAT BOTTOM OF STROBE LENS IS 81" ABOVE FINISHED FLOOR, COORDINATE BACKBOX TYPE AND EXACT MOUNTING HEIGHT WITH FIRE ALARM EQUIPMENT SUPPLIER. "WG" BY SPEAKER/STROBE INDICATES CONTRACTOR TO PROVIDE WIRE GUARD.

FIRE ALARM COMBINATION SPEAKER/STROBE UNIT, CANDELA AND DBA RATING AS NOTED ON DRAWINGS, "C" INDICATES SPEAKER/STROBE UNIT TO BE CEILING MOUNTED. "WG" BY DEVICE INDICATES CONTRACTOR TO PROVIDE WIRE GUARD.

WALL MOUNTED FIRE ALARM REMOTE ANNUNCIATOR PANEL, TOP 54" AFF.

Design Inno
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ANEW PROJECT FOR:

ANDERSON COUNTY SPORTS

TRAINING FACILITY

NO. ISSUED BY DATE
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