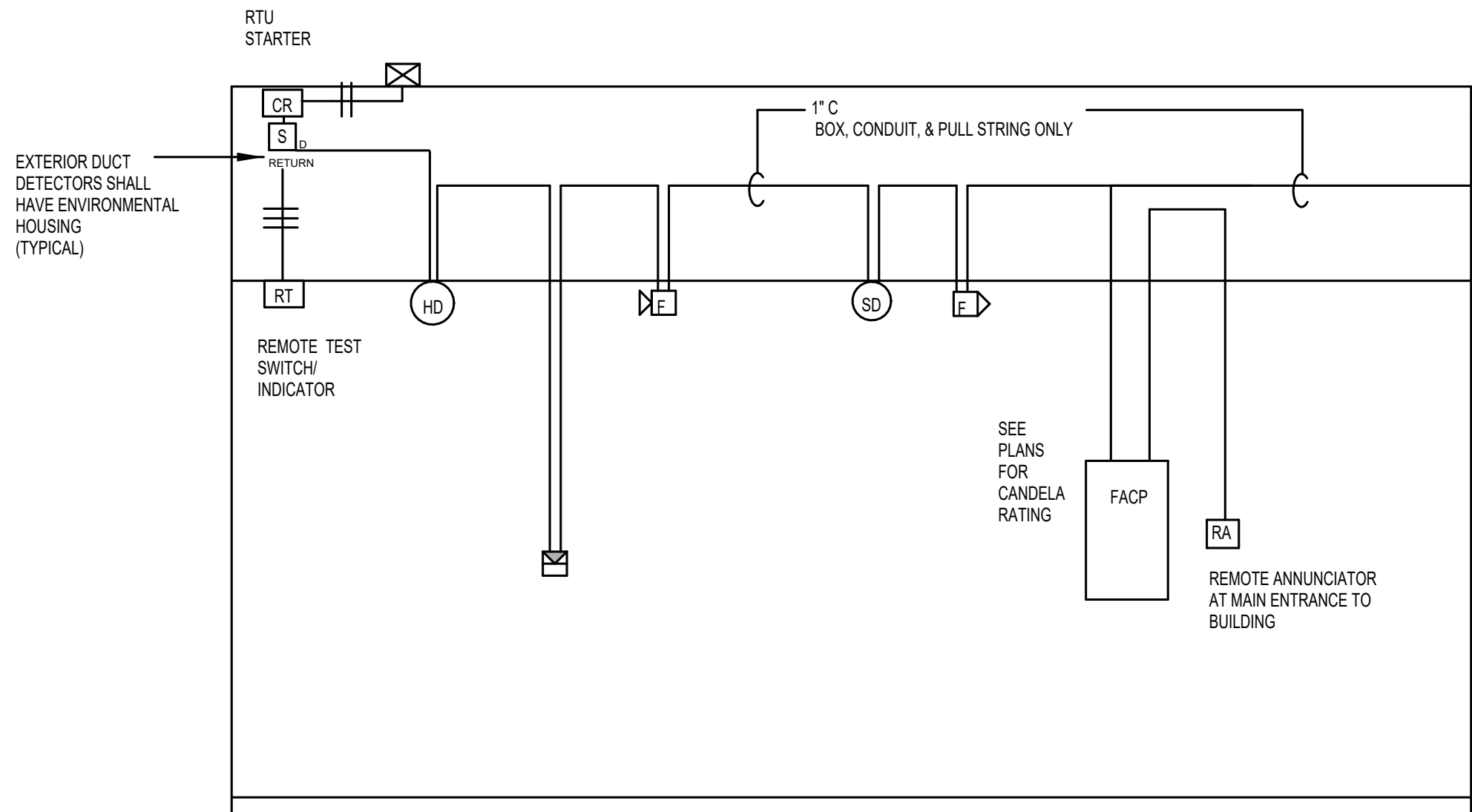


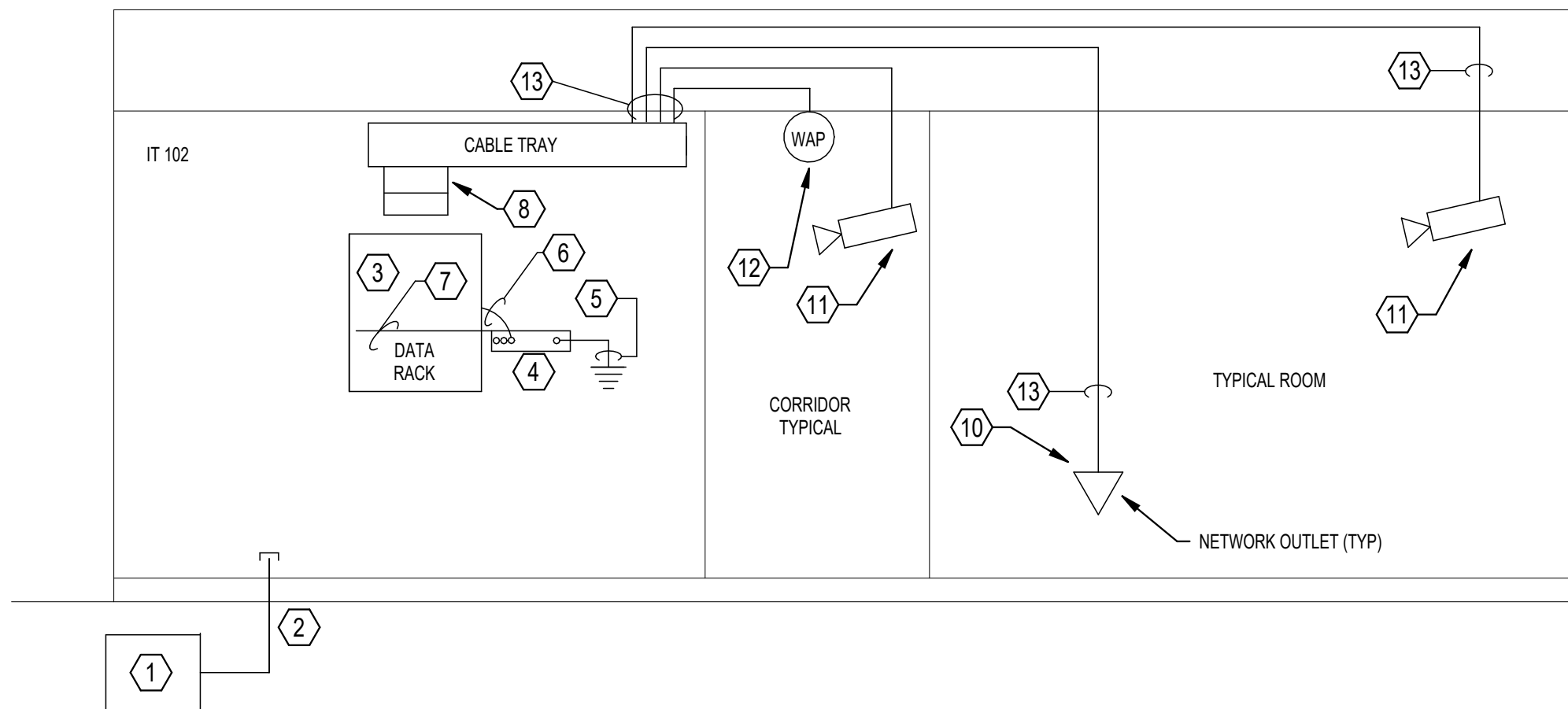
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FIRE ALARM SYSTEM NOTES:
1. THE CONTRACTOR SHALL PROVIDE BOXES, CONDUIT, AND PULL STRING ONLY FOR ALL FIRE ALARM DEVICES. THE FIRE ALARM PANEL SHALL HAVE 120 V CIRCUIT.
2. THIS BUILDING HAS A GYP CEILING THROUGHOUT. ALL DEVICES SHALL BE CONNECTED VIA CONDUIT BACK TO THE FIRE ALARM PANEL.
3. THE OWNER IS PROVIDING THE FIRE ALARM SYSTEM.
4. CONTACT GENESIS DATACOM FOR CONDUIT ROUTING.

1 FIRE ALARM SYSTEM RISER DIAGRAM

NOT TO SCALE



ALL CABLE SHALL BE INSTALLED IN CONDUIT FROM EACH LOCATION BACK TO THE IT ROOM.

2 DATA RISER DIAGRAM

NOT TO SCALE

GENERAL NOTES

- ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
- CIRCUITS OF DIFFERENT PHASES MAY SHARE EQUIPMENT GROUND. EQUIPMENT GROUND CONDUCTOR SIZE SHALL NOT BE LESS THAN #12 AWG OR AS INDICATED ON THE DRAWINGS.
- ALL CONDUCTORS #10 AND SMALLER SHALL BE SOLID COPPER THW, THHN, THWN, AND ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER USING BOLTED LUGS AT TERMINALS.
- MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED.
- PULL ALL THE CONDUCTORS THROUGH RACEWAY AT THE SAME TIME.
- MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS OTHERWISE NOTED. SEE SPECS FOR CONDUIT REQUIREMENTS. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
- 6'-0" MAXIMUM LENGTH ON FLEXIBLE CONDUIT.
- USE COMPRESSION FITTINGS ON CONDUIT, SET SCREW FITTINGS ARE NOT ALLOWED.
- PROVIDE PULL STRINGS AND PROTECTIVE BUSHINGS IN ALL SPARE CONDUITS.
- LABEL ALL CIRCUITS ON PANEL SCHEDULES.
- TURN ALL UNUSED CIRCUIT BREAKERS TO OFF POSITION.
- FIRE PROOF ALL PENETRATIONS MADE THROUGH FIRE RATED WALLS.
- ALL DEVICES SHALL BE RATED 20 AMP MINIMUM. VERIFY COLOR WITH ARCHITECT.
- CONNECT DEVICES BY WRAPPING WIRE AROUND SCREW TERMINAL IN A CLOCKWISE DIRECTION AND TIGHTEN SCREW. BACK-CONNECTED SPRING DEVICES ARE NOT ALLOWED.
- ALL BOXES SHALL BE INDEPENDENTLY SUPPORTED TO THE BUILDINGS STRUCTURE.
- CONTRACTOR SHALL REFER TO THE ARCHITECTURAL ELEVATIONS AND MILLWORK DETAILS FOR EXACT LOCATIONS OF ALL WIRING DEVICES AND LIGHT FIXTURES.
- CONTRACTOR SHALL REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LAY-IN LIGHT FIXTURES.
- THE SPECIFICATIONS ARE AS BINDING ON THE CONTRACTOR AS THE DRAWINGS. THE CONTRACTOR SHALL READ THE SPECIFICATIONS AND SHALL INCLUDE ALL ITEMS REQUIRED BY THE SPECIFICATIONS BEFORE SUBMITTING A BID.
- ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE WITH MECHANICAL AND PLUMBING CONTRACTORS FOR EXACT LOCATION OF HVAC AND PLUMBING EQUIPMENT.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SIZING OF ALL MOTOR OVERLOAD DEVICES (HEATERS) IN STARTERS BASED ON ACTUAL NAMEPLATE RATINGS ON THE MOTOR BEING INSTALLED.
- PROVIDE TAMPER RESISTANT DEVICES AS REQUIRED BY CODE.

DATA RISER KEYED NOTES:

- PROVIDE AND INSTALL 24"x24"x24" FLUSH IN GRADE POLYMER CONCRETE PULL BOX EQUAL TO QUATZE PG STYLE STACKABLE. INSTALL 6" DRAIN HOLE IN SOLID BOTTOM. INSTALL 6" GRAVEL FILL BELOW PULL BOX. PROVIDE APPROPRIATE LOGO CODE ON PULL BOX LID. CONTRACTOR SHALL VERIFY EXACT LOCATION WITH CIVIL PRIOR TO ROUGH-IN.
- PROVIDE AND INSTALL (2) 4" CONDUITS WITH 3" 3-CELL FIBER MESH INNERDUCTS. CONTRACTOR SHALL PROVIDE PULL STRINGS IN EACH CELL. VERIFY EXACT LOCATION OF CONDUIT STUB-UPS AND PENETRATIONS WITH OWNERS IT REPRESENTATIVE PRIOR TO ROUGH-IN. SAW CUT EXISTING SLAB AS NEEDED.
- DATA RACK - OPEN, DUAL-HINGE 30U WITH HORIZONTAL AND VERTICAL CABLE MANAGEMENT.
- 18"x14"x4" COPPER GROUNDING BUS BAR WITH STANDOFF BRACKET.
- BOND TO BUILDING STRUCTURE AND TO ELECTRICAL SERVICE ENTRANCE GROUND PER BICSI STANDARDS.
- #6 AWG BONDING JUMPER TO OWNER PROVIDED DATA RACKS.
- 10' SLACK #6 GROUNDING CABLE FOR OWNER GROUNDING.
- 18" LADDER RACK DROP ABOVE EACH DATA RACK.
- 3/4" MINIMUM EMT CONDUIT DROP DOWN FOR NETWORK CABLING.
- TYPICAL DATA OUTLET, 2 CABLES PER DROP. REFER TO PLANS LOCATION OF DROPS.
- SECURITY CAMERA PROVIDED BY OTHERS. TYPICAL CAMERA LOCATIONS, REFER TO PLANS FOR NUMBER AND LOCATIONS. PROVIDE CONDUIT PATHWAY WITH PULL STRINGS AND BACK BOX.
- WIFI ACCESS POINT: 1 TERMINATED CAT6 DROP PER WAP LOCATION WITH 3FT SLACK WITH BOX AND CONDUIT. REFER TO PLANS FOR LOCATIONS.

CABLE COLOR CODES:
NETWORK: COLOR BY OWNER
SECURITY: COLOR BY OWNER
ACCESS CONTROLS: COLOR BY OWNER
WIFI: COLOR BY OWNER

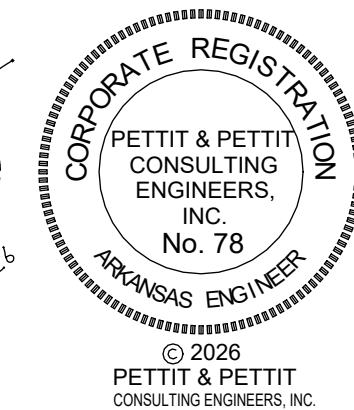
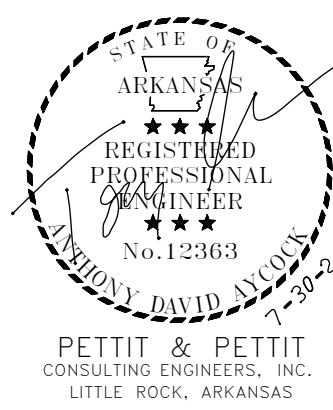
NOTE: ALL CABLE SHEATHING COLORS SHALL BE VERIFIED WITH OWNERS IT REPRESENTATIVE PRIOR TO ORDERING.

EACH SYSTEM CABLE SHALL BE TERMINATED AT A DEDICATED PATCH PANEL IN EACH DATA RACK. EACH SYSTEM SHALL BE BUNDLED SEPARATELY IN J-HOOKS.

300' MAXIMUM LENGTH SHALL BE MAINTAINED FOR ALL DATA CABLING. THE LOW VOLTAGE CONTRACTOR SHALL ENSURE THAT MAXIMUM RUN LENGTH IS NOT EXCEEDED. IF DEVICE LOCATION IS SUCH THAT MAXIMUM LENGTH CANNOT BE MAINTAINED, IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE AN ALTERNATE PATH FOR CABLING.

SYMBOL LEGEND

	DUPLEX RECEPTACLE AT 18" A.F.F.
	GFI - GROUND FAULT CIRCUIT INTERRUPTER
	AC - MOUNTED 1' ABOVE COUNTER, TYPICALLY 24" A.F.F.
	BC - MOUNTED BELOW COUNTER, TYPICALLY 24" A.F.F.
	WP - WEATHER RESISTANT GFI W/EXTRA HEAVY DUTY WEATHERPROOF IN-USE TYPE COVER
	EWC - DEDICATED WATER COOLER RECEPTACLE FED FROM GFCI CIRCUIT BREAKER. COORDINATE EXACT MOUNTING LOCATION WITH COOLER PROVIDED.
	REF - DEDICATED REFRIGERATOR RECEPTACLE - GFI PROTECTED CIRCUIT.
	TV - DEDICATED TELEVISION RECEPTACLE, COORDINATE EXACT MOUNTING HEIGHT WITH OWNER, TYPICALLY 66" A.F.F.
	DIS - DEDICATED GARBAGE DISPOSAL RECEPTACLE BELOW COUNTER, SWITCHED ABOVE COUNTER.
	QUADRUPLEX RECEPTACLE
	DUPLEX RECEPTACLE - FLOOR MOUNTED
	QUADRUPLEX RECEPTACLE FLOOR MOUNTED
	DATA OUTLET - 2 CAT6 CABLE PER LOCATION
	DATA OUTLET - FLOOR MOUNTED - NUMBER OF JACKS SHOWN ON DATA RISER
	WIRELESS ACCESS POINT - 2 TERMINATED CAT6 CABLES PER LOCATION WITH 2 FT SLACK ABOVE CEILING
	JUNCTION BOX
	\$ SINGLE POLE TOGGLE SWITCH AT 48" A.F.F. TYPICAL
	DT - DIGITAL TIMER SWITCH EQUAL TO WATTSTOPPER TS-400
	LV ₂ - LOW VOLTAGE PUSH BUTTON SWITCH EQUAL TO WATTSTOPPER LMSW-220
	LV ₀ - LOW VOLTAGE PUSH BUTTON SWITCH W/ DIMMING EQUAL TO WATTSTOPPER LMSW-211
	LV ₄ - LOW VOLTAGE PUSH BUTTON SWITCH W/ DIMMING EQUAL TO LMSW-222
	M - MOTOR RATED TOGGLE
	OC - DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH EQUAL TO WATTSTOPPER DSW-301
	OC ₀ - DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH W/ DIMMING EQUAL TO WATTSTOPPER DSW-311
	WP - WEATHERPROOF COVER
	BRANCH CIRCUIT HOMERUN HOT-NEUTRAL-GROUND PANEL AND CIRCUIT NUMBER INDICATED ON PLAN
	PANELBOARD
	DISCONNECT SWITCH
	DUAL TECHNOLOGY OCCUPANCY SENSOR CEILING/WALL MOUNTED EQUAL TO ****
	RC1 LIGHTING ROOM CONTROLLER SINGLE RELAY EQUAL TO WATTSTOPPER LMRC-211
	RC2 LIGHTING ROOM CONTROLLER DUAL RELAY EQUAL TO WATTSTOPPER LMRC-212
	GROUND BAR
	HD HEAT DETECTOR - BOX, CONDUIT AND PULL STRINGS
	SD SMOKE DETECTOR - BOX, CONDUIT AND PULL STRINGS
	MANUAL PULL STATION - BOX, CONDUIT AND PULL STRINGS
	RA FIRE ALARM REMOTE ANNUNCIATOR - BOX, CONDUIT AND PULL STRINGS
	S DUCT MOUNTED SMOKE DETECTOR - BOX, CONDUIT AND PULL STRINGS
	Fire Alarm Audio/Visual Appliance CANDELA RATING AS SHOWN ON PLANS - BOX, CONDUIT AND PULL STRINGS
	FIRE ALARM VISUAL ONLY APPLIANCE CANDELA RATING SHOWN ON PLANS - BOX, CONDUIT AND PULL STRINGS
	REQUEST FOR EXIT PUSH BUTTON - SEE ACCESS CONTROL RISER
	MAGNETIC LOCK - SEE ACCESS CONTROL RISER
	MOTION SENSOR - SEE ACCESS CONTROL RISER
	CARD READER (PROVIDED BY OTHERS) - WALL MOUNT ON HANDLE SIDE OF THE DOOR. PROVIDE SINGLE GANG JUB 48" A.F.F. AND 3/4" CONDUIT STUBBED FROM DOOR FRAME TO ABOVE CEILING - SEE ACCESS CONTROL RISER



NO. DATE DESCRIPTION

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ARKANSAS GAME AND FISH COMMISSION
JONESBORO FIELD OFFICE RECONSTRUCTION
600 EAST LAWSON RD
JONESBORO, AR 72404

ELECTRICAL LEGENDS & DETAILS

