LIFE SAFETY UPGRADES
SOUTH CENTRAL CORRECTIONAL FACILITY

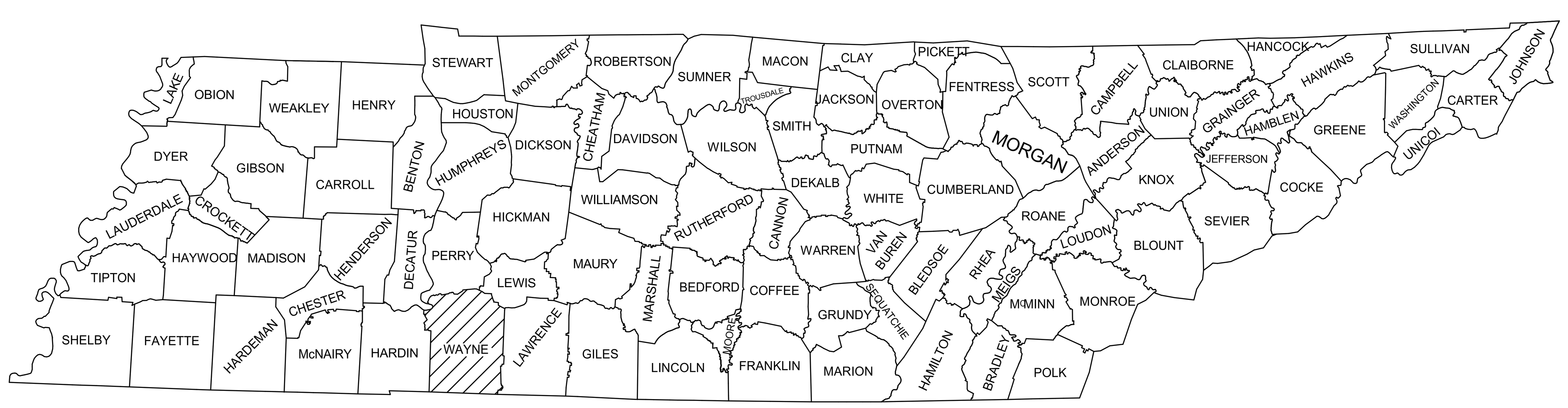
CLIFTON, WAYNE COUNTY, TENNESSEE

SBC PROJECT NO. 142/018-01-2017

DATE: NOVEMBER 8, 2019

OWNER: STATE OF TENNESSEE
DEPARTMENT OF GENERAL SERVICES
FOR
DEPARTMENT OF CORRECTION

CONSTRUCTION DOCUMENTS



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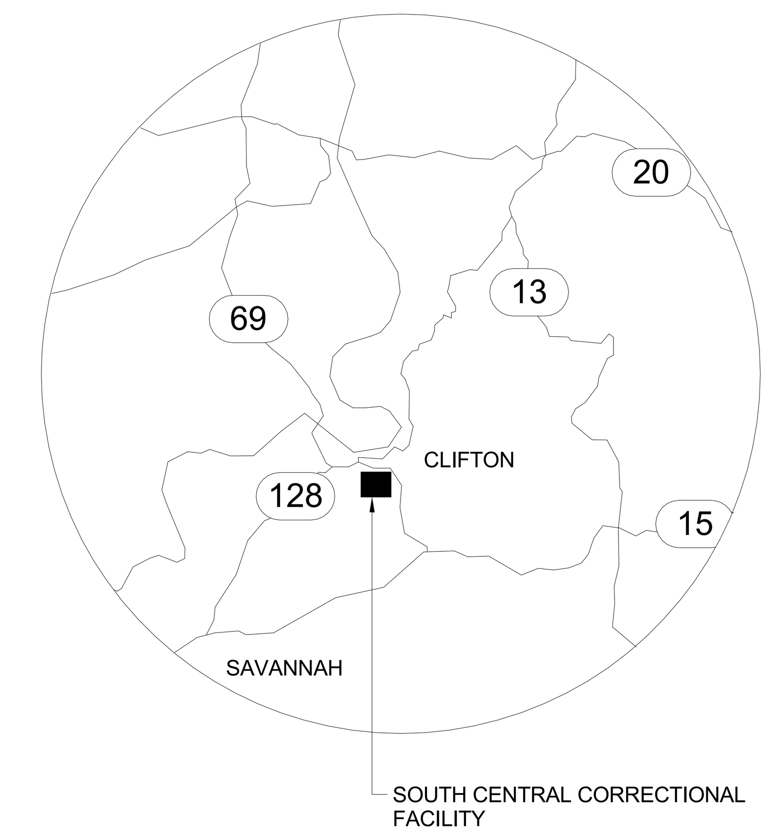
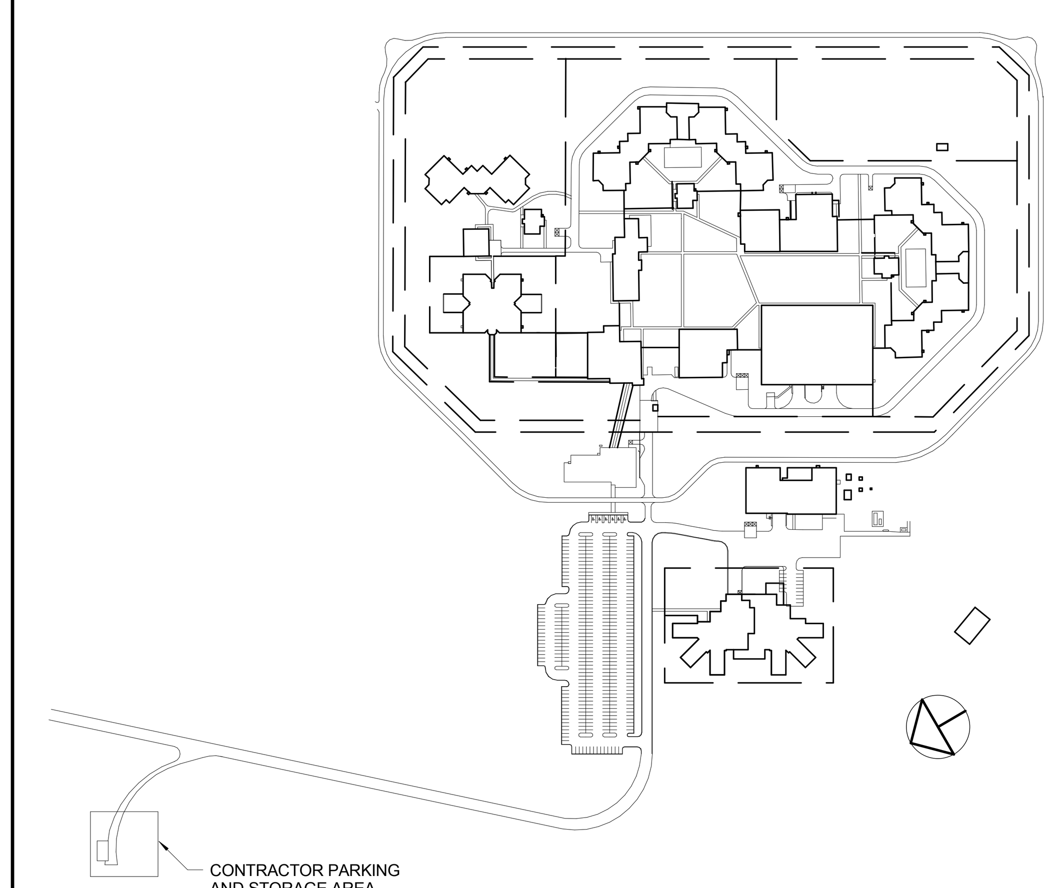
Code Compliance

INTERNATIONAL BUILDING CODE (IBC), 2012 EDITION
INTERNATIONAL FUEL GAS CODE (IFGC), 2012 EDITION
INTERNATIONAL MECHANICAL CODE (IMC), 2012 EDITION
INTERNATIONAL PLUMBING CODE (IPC), 2012 EDITION
INTERNATIONAL PROPERTY MAINTENANCE CODE (IPMC), 2012 EDITION
INTERNATIONAL FIRE CODE (IFC), 2012 EDITION
INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2012 EDITION
INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2012 EDITION
NFPA 101 LIFE SAFETY CODE, 2012 EDITION
NFPA-70-2011: NATIONAL ELECTRICAL CODE

Occupancy Classification: I3



1 Vicinity Map
1/32" = 1'-0"



2 Site Map
NOT TO SCALE

MECHANICAL LEGEND

(NOT ALL SYMBOLS MAY BE USED)

DUCTWORK

SYMBOL	ABB.	DESCRIPTION
		RECTANGULAR SUPPLY DUCT - UP
		RECTANGULAR SUPPLY DUCT - DOWN
		RECTANGULAR RETURN / EXHAUST DUCT - UP
		RECTANGULAR RETURN / EXHAUST DUCT - DOWN
		ROUND SUPPLY DUCT - UP
		ROUND SUPPLY DUCT - DOWN
		ROUND RETURN / EXHAUST DUCT - UP
		ROUND RETURN / EXHAUST DUCT - DOWN
		OVAL SUPPLY DUCT - UP
		OVAL SUPPLY DUCT - DOWN
		OVAL RETURN / EXHAUST DUCT - UP
		OVAL RETURN / EXHAUST DUCT - DOWN
FD	FD	FIRE DAMPER
SD	SD	SMOKE DAMPER
FSD	FSD	COMBINATION FIRE/SMOKE DAMPER
MVD MVD		MANUAL VOLUME DAMPER
M M		MOTORIZED DAMPER
A A		AIR FLOW MONITORING STATION
DP DP		DIFFERENTIAL PRESSURE SENSOR
SP SP		STATIC PRESSURE SENSOR
SD SD		SMOKE DETECTOR
CO CO		CARBON DIOXIDE DETECTOR
CO CO		CARBON MONOXIDE DETECTOR
0 0		DUCT SENSOR
		TRAVERSE DUCT TEST AND BALANCE
H-XX H-XX HUM H		HUMIDIFIER WITH IDENTIFICATION
		TRANSITION
		RADIUS ELBOW
		SQUARE THROAT ELBOW WITH TURNING VANES
		BRANCH DUCT CONNECTION RECTANGULAR OR ROUND BRANCH. RECTANGULAR TRUNK. MVD REQUIRED TO AIR DEVICES
R/D R/D		RISE/DROP IN ELEVATION
X X		SPLITTER WITH SPLIT SIZE SHOWN
X X		SPLITTER WITH SPLIT SIZES SHOWN
		BRANCH DUCT CONNECTION CONICAL TEE AND TAP ROUND TRUNK.
		BRANCH DUCT CONNECTION BEVELED TEE. ROUND TRUNK. MVD REQUIRED TO AIR DEVICES.

SYMBOL	ABB.	DESCRIPTION
12"X12" FACE / 24"X24" FACE: SX		SUPPLY DIFFUSER AND AIR QUANTITY. BLANK OUTS INDICATE THROW IN THIS DIRECTION. (SX DENOTES TYPE. SEE NOTE 1 OF AIR DISTRIBUTION DEVICE SCHEDULE)
RX		RETURN GRILLE AND AIR QUANTITY (X DENOTES TYPE)
EX		EXHAUST GRILLE AND AIR QUANTITY (X DENOTES TYPE)
100SX 100SX		LAMINAR FLOW SUPPLY DIFFUSER AND AIR FLOW QUANTITY (X DENOTES TYPE)
100		LINEAR SLOT DIFFUSER AND AIR FLOW QUANTITY
100		SCREENED OPENING AND AIR FLOW QUANTITY
AT-XX-XX		SOUND ATTENUATOR
XXX		HEATING COIL WITH IDENT.
XXX		ELECTRIC HEATING COIL WITH IDENT.
ATU-XX-XX XXX		AIR TERMINAL UNIT WITH IDENT. & MAX CFM
ATU-XX-XX XXX		AIR TERMINAL UNIT WITH IDENT., MIN AND MAX CFM
CB-XX-XX XXX		CHILLED BEAM WITH IDENT. & CFM
CFM		AIR FLOW RATE AT DOOR UNDERCUT
	AD	ACCESS DOOR
	AFF	ABOVE FINISHED FLOOR
	ATC	AUTOMATIC TEMPERATURE CONTROL PANEL
	BDD	BACKDRAFT DAMPER
	BOD	BOTTOM OF DUCT
	BOP	BOTTOM OF PIPE
	CB	CIRCUIT BREAKER
	CCT	CONTROL CIRCUIT TRANSFORMER
	CS	COLD DECK SUPPLY
	DDC	DIRECT DIGITAL CONTROL
	EA	EXHAUST AIR
	HS	HOT DECK SUPPLY
	IE	ISOLATION EXHAUST
	LE	LAB EXHAUST
	ML	MARINE LIGHT
	MVD	MANUAL VOLUME DAMPER
	OA	OUTSIDE AIR
	OBD	OPPOSED BLADE DAMPER
	RA	RETURN AIR
	SA	SUPPLY AIR
	SWR	SIDEWALL REGISTER
	SWG	SIDEWALL GRILLE
	UNO	UNLESS NOTED OTHERWISE
	VFD	VARIABLE FREQUENCY DRIVE
		CONNECT TO EXISTING
		DEMO TO POINT
WALL MOUNTED CONTROL DEVICES		
T		THERMOSTAT OR TEMP SENSOR
H		HUMIDISTAT OR HUMIDITY SENSOR
P		PRESSURE MONITOR
CO		CARBON DIOXIDE SENSOR
CO		CARBON MONOXIDE SENSOR
MPM-X		MULTI-POINT MONITOR

MECHANICAL SEQUENCE OF OPERATIONS

AIR HANDLING UNIT SEQUENCE OF OPERATIONS

SMOKE CONTROL MODE - EACH AHU THAT HAS SMOKE CONTROL FUNCTIONS SHALL HAVE INSTALLED TWO FIRE CONTROL RELAYS THAT SHALL ALLOW THE UNIT TO BE SHUT DOWN OR STARTED INDEPENDENT OF ANY SAFETIES THAT ARE DESIGNED INTO THE HVAC SYSTEM. THE FIRE/SECURITY SYSTEM SHALL HAVE SOLE CONTROL OVER THE SMOKE CONTROL FUNCTION BY INITIATING THE SMOKE MODES PER THE "SMOKE MANAGEMENT OPERATION MATRIX" GIVEN ON THE DRAWINGS. THE FACP SHALL INITIATE THE MODE BY SENDING A SIGNAL TO THE FIRE CONTROL RELAY VIA AN ADDRESSABLE FACP CONTROL MODULE AND INDEXING THE FAN SYSTEM EITHER ON OR OFF DEPENDING ON THE DIRECTION GIVEN IN THE MATRIX. IF THE AHU SYSTEM SUPPLY FAN IS DIRECTED BY THE FACP TO BE OPERATING, THE OUTSIDE AIR DAMPER SHALL FULLY OPEN, THE AHU SUPPLY FAN SHALL ENERGIZE AND THE HEATING MODE SHALL REMAIN OPERATIONAL TO TEMPER THE ENTERING AIR IF IN HEATING MODE. THE ASSOCIATED SMOKE REMOVAL EXHAUST FANS SHALL OPERATE IN A SIMILAR MANNER AND SHALL TAKE DIRECTION FROM THE FACP PER THE "SMOKE MANAGEMENT OPERATION MATRIX".

EXHAUST FAN SEQUENCE OF OPERATION

EACH GENERAL EXHAUST FAN SHALL OPERATE CONTINUOUSLY WHEN THE BUILDING IS OCCUPIED . PROVIDE RELAYS TO SHUTDOWN THE FAN IN THE EVENT OF A FIRE ALARM.

SMOKE CONTROL SYSTEM SEQUENCE OF OPERATION THE SMOKE SYSTEM SHALL BE CONTROLLED FROM THE HOA SWITCHES IN THE SMOKE CONTROL PANEL. FIRE DEPARTMENT SMOKE CONTROL PANEL SHALL BE U.L. LISTED, FURNISHED AND INSTALLED AND MEET ALL REQUIREMENTS OF 2012 IBC SECTION 909. PROVIDE SHOP DRAWINGS IDENTIFYING EQUIPMENT, WIRING,AND INSTALLATION. SYSTEM TO BE OPERABLE AND INCLUDE ALL NECESSARY AUXILIARY DEVICES. SUBMIT SHOP DRAWINGS IDENTIFYING EQUIPMENT, WIRING, AND INSTALLATION TO ENGINEER, AHJ, AND PLANS REVIEWER.

WHEN THE HOA IS IN THE AUTO POSITION UPON DETECTION OF SMOKE THE DAMPER SHALL OPEN AND THE SMOKE FANS SHALL START. ROOFTOP UNITS AND FANS SHALL OPERATE PER SMOKE MATRIX.

WHEN THE HOA IS IN THE OFF POSITION THE FANS SHALL BE OFF AND DAMPERS SHALL BE CLOSED.

WHEN THE HOA IS IN THE ON POSITION THE FANS SHALL BE ON AND DAMPERS SHALL BE OPEN.

VFD IS FOR SYSTEM BALANCING. SMOKE DAMPERS AND MOTORIZED DAMPERS ARE ACTUATED FROM SMOKE FAN VFD CONTROL POWER.

EACH EXHAUST AND SUPPLY FAN SHALL HAVE INSTALLED TWO FIRE CONTROL RELAYS THAT SHALL ALLOW THE FAN TO BE SHUT DOWN OR STARTED INDEPENDENT OF ANY SAFETIES THAT ARE DESIGNED INTO THE HVAC SYSTEMS. PROVIDE CONTACTS TO MONITOR POWER AT THE FAN.

THE FIRE/SECURITY SYSTEM SHALL HAVE SOLE CONTROL OVER THE SMOKE CONTROL FUNCTION BY INITIATING THE SMOKE MODES PER THE "SMOKE MANAGEMENT OPERATION MATRIX" GIVEN ON THE DRAWINGS.

THE FACP SHALL INITIATE THE MODE BY SENDING A SIGNAL TO THE FIRE CONTROL RELAY VIA AN ADDRESSABLE FACP CONTROL MODULE AND INDEXING THE FAN SYSTEM EITHER ON OR OFF DEPENDING ON THE DIRECTION GIVEN IN THE MATRIX.

THE ASSOCIATED RTU UNITS SHALL OPERATE IN A SIMILAR MANNER AND SHALL TAKE DIRECTION FROM THE FACP PER THE "SMOKE MANAGEMENT OPERATION MATRIX". FAN OPERATION SHALL BE CAPABLE OF BEING OVERRIDDEN BY FIREFIGHTERS SMOKE CONTROL OVERRIDE PANEL. PROVIDE RELAYS TO SHUTDOWN OR START THE RTU. PROVIDE CONTACT TO MONITOR POWER AT THE RTU. PROVIDE FLOW SENSOR TO MONITOR FLOW AT THE RTU.

SMOKE SYSTEM TESTING

ACCEPTANCE TESTING SHALL BE PERFORMED PER 2012 IBC SECTION 909.18. PROVIDE LEAKAGE TESTING, SPACE PRESSURE TESTING, AIR BALANCE, AND CONTROL SYSTEM VERIFICATION FOR SMOKE CONTROL SYSTEM PER 2012 IBC SECTION 909.18.8 AND SECTION 1704.17. PROVIDE REPORTS TO ENGINEER.

MECHANICAL GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT SCOPE, UTILITY CONNECTIONS, AND ALL BUILDING SERVICES.
2. STANDARD DETAILS ILLUSTRATED ON THE DRAWINGS SHALL BE APPLIED IN ALL CASES WHERE THE FEATURE OCCURS IN THE SYSTEM DESIGN.
3. ALL DUCTWORK SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS IN INCHES. REFER TO SPECIFICATIONS FOR DUCT INSULATION REQUIREMENTS.
4. MAJOR EQUIPMENT SHOWN ON THE PLANS AND ELEVATIONS ILLUSTRATE THE GENERAL ARRANGEMENT AND SPACE ALLOCATIONS. THE CONTRACTOR SHALL VERIFY THE SPACE REQUIREMENTS FOR EACH SYSTEM COMPONENT USING MANUFACTURER CERTIFIED SHOP DRAWINGS AND MAKE THE NECESSARY ADJUSTMENTS IN EQUIPMENT PLACEMENT AND CONNECTION IN ORDER TO ACCOMMODATE THE EXACT EQUIPMENT TO BE INSTALLED.
5. SUPPORTS, ANCHOR BOLTS, AND HANGERS FOR ALL EQUIPMENT SPECIFIED IN DIVISION 23 SHALL CONFORM TO THE SPECIFICATIONS. MISCELLANEOUS STEEL BRACING SUPPORTS AND REINFORCING STEEL NEEDED TO SUPPORT EQUIPMENT SPECIFIED IN DIVISION 23 SHALL BE PART OF THE SCOPE OF WORK OF DIVISION 23.
6. DIFFUSERS, REGISTERS, AND GRILLES SHOWN ON THE MECHANICAL DRAWINGS SHALL BE IN ACCORDANCE WITH THE AIR DISTRIBUTION DEVICE SCHEDULE AND SPECIFICATIONS. BRANCH DUCTS TO AIR DEVICES SHALL BE IN ACCORDANCE WITH THE SCHEDULE UNLESS NOTED OTHERWISE.
7. FIRE/SMOKE DAMPERS SHALL BE INSTALLED IN DUCTWORK PENETRATIONS THROUGH RATED PARTITIONS, WALLS, BARRIERS, FLOORS, AND SHAFTS IN ACCORDANCE WITH THE PROJECT APPLICABLE BUILDING CODES. DAMPERS SHALL MEET THE REQUIREMENTS OF THE FIRE/SMOKE RATING AND BE "U.L." LABELED. REFER TO ARCHITECTURAL DRAWINGS FOR THE LOCATIONS AND RATINGS OF ALL WALLS AND FLOORS.
8. PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SLEEVED, SEALED AND FIRESAFED TO MAINTAIN THE INTEGRITY OF THE WALL AND FLOOR UL FIRE RESISTANCE RATING.
9. DUCTWORK AND PIPING 4" AND LARGER ROUTED PARALLEL TO A RATED WALL SHALL BE INSTALLED WITH A MINIMUM 6" CLEARANCE TO ALLOW FOR INSPECTION OF WALL PENETRATIONS
10. DUCTWORK STORED ON-SITE AWAITING INSTALLATION SHALL REMAIN PROPERLY SEALED AND PROTECTED. OPEN ENDS OF DUCTWORK SHALL BE CAPPED AND SEALED AFTER INSTALLATION.
11. SMOKE DETECTORS SHALL BE LOCATED AS INDICATED ON THE FIRE ALARM PLANS AND IN CONFORMANCE WITH NFPA 90A AND LOCAL CODES.
12. CEILING DIFFUSERS, REGISTERS AND GRILLES SHALL BE FURNISHED WITH MOUNTING FRAMES AND FEATURES IN ACCORDANCE WITH THE CEILING TYPE.
13. DRAWINGS ARE SCHEMATIC IN NATURE AND SHALL NOT BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES. REFER TO SPECIFICATIONS FOR COORDINATION DRAWING REQUIREMENTS.
14. MAINTAIN ACCESSIBILITY OF ALL EQUIPMENT, DAMPERS, CONTROL PANELS, VALVES, AND OTHER DEVICES. PROVIDE ACCESS PANELS AS REQUIRED. COORDINATE PLACEMENT WITH THE ARCHITECT PRIOR TO INSTALLATION.
15. CONTRACTOR SHALL COORDINATE WITH THE DESIGNER PRIOR TO CUTTING ANY OPENING IN THE STRUCTURE.
16. WHERE WORK IN RENOVATED AREAS AFFECTS SYSTEMS IN OTHER AREAS OF THE BUILDING, THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE OWNER. THIS WORK SHALL BE DONE TO FIT THE BUILDING OPERATIONAL SCHEDULE AND MINIMIZE DISRUPTION/ DISCOMFORT TO OCCUPIED AREAS. PROVIDE MINIMUM 48 HOURS WRITTEN NOTICE WITH ANTICIPATED DURATION OF OUTAGE.
17. COORDINATE WITH ALL TRADES FOR REQUIRED CEILING REMOVAL IN EXISTING BUILDING. NOTIFY THE DESIGNER AND OWNER PRIOR TO COMMENCING REMOVAL. REMOVE ONLY THAT PORTION OF CEILING NECESSARY TO ACCESS AND COMPLETE THE NEW WORK. UPON COMPLETION OF THE ABOVE CEILING WORK, CEILING IS TO BE REINSTALLED. REPLACE ANY DAMAGED CEILING TILES WITH NEW TILES TO MATCH EXISTING.

AIR DISTRIBUTION DEVICE SCHEDULE

IDENTITY	CFM RANGE MIN	CFM RANGE MAX	MFR	MODEL	TYPE	SERVICE S	SERVICE R	SERVICE E	LOCATION	FACE SIZE	NECK SIZE	RUNOUT SIZE	PANEL SIZE	REMARKS
S1	0	95	TITUS	TMS	LOUVERED FACE	X	-	-	CEILING	12"X12"	6" DIA.	6" DIA. / 8"x4"	12"X12"	-
	100	200	TITUS	TMS	LOUVERED FACE	X	-	-	CEILING	12"X12"	8" DIA.	8" DIA. / 10"x6"	12"X12"	-
	0	95	TITUS	TMS	LOUVERED FACE	X	-	-	CEILING	24"X24"	6" DIA.	6" DIA. / 8"x4"	24"X24"	-
	100	200	TITUS	TMS	LOUVERED FACE	X	-	-	CEILING	24"X24"	8" DIA.	8" DIA. / 10"x6"	24"X24"	-
	205	320	TITUS	TMS	LOUVERED FACE	X	-	-	CEILING	24"X24"	10" DIA.	10" DIA. / 12"x8"	24"X24"	-
	325	450	TITUS	TMS	LOUVERED FACE	X	-	-	CEILING	24"X24"	12" DIA.	12" DIA. / 14"x10"	24"X24"	-
	455	1500	TITUS	TMS	LOUVERED FACE	X	-	-	CEILING	24"X24"	22"X22"	14" DIA. / 16"x10"	24"X24"	-
S5	0	120	TITUS	300R	DOUBLE DEFLECTION 3/4" BLADE SPACING	X	-	-	SIDEWALL	8"Wx8"H	6"Wx6"H	6"x6"	N/A	B
	125	240	TITUS	300R	DOUBLE DEFLECTION 3/4" BLADE SPACING	X	-	-	SIDEWALL	14W"x8"H	12W"x6"H	12"x6"	N/A	B
	245	300	TITUS	300R	DOUBLE DEFLECTION 3/4" BLADE SPACING	X	-	-	SIDEWALL	18"Wx10"H	16"Wx8"H	16"x8"	N/A	B
	305	400	TITUS	300R	DOUBLE DEFLECTION 3/4" BLADE SPACING	X	-	-	SIDEWALL	18"Wx12"H	16"Wx10"H	16"x10"	N/A	B
	405	500	TITUS	300R	DOUBLE DEFLECTION 3/4" BLADE SPACING	X	-	-	SIDEWALL	20"Wx12"H	18"Wx10"H	18"x10"	N/A	B
	505	620	TITUS	300R	DOUBLE DEFLECTION 3/4" BLADE SPACING	X	-	-	SIDEWALL	20"Wx14"H	18"Wx12"H	18"x12	N/A	B
	625	800	TITUS	300R	DOUBLE DEFLECTION 3/4" BLADE SPACING	X	-	-	SIDEWALL	26"Wx14"H	24"Wx12"H	24"x12"	N/A	B
R3/E3	0	100	TITUS	PAR	PERFORATED	-	X	X	CEILING	12"X12"	6" DIA.	6" DIA. / 8"x4"	12"X12"	F
	105	220	TITUS	PAR	PERFORATED	-	X	X	CEILING	12"X12"	10"x10"	10" DIA. / 12"x8"	12"X12"	F
	0	150	TITUS	PAR	PERFORATED	-	X	X	CEILING	24"X24"	8" DIA.	8" DIA. / 10"x6"	24"X24"	F
	155	300	TITUS	PAR	PERFORATED	-	X	X	CEILING	24"X24"	10" DIA.	10" DIA. / 12"x8"	24"X24"	F
	305	450	TITUS	PAR	PERFORATED	-	X	X	CEILING	24"X24"	12" DIA.	12" DIA. / 14"x10"	24"X24"	F
	455	600	TITUS	PAR	PERFORATED	-	X	X	CEILING	24"X24"	14" DIA.	14" DIA. / 16"x10"	24"X24"	F
	605	700	TITUS	PAR	PERFORATED	-	X	X	CEILING	24"X24"	16" DIA.	16" DIA. / 18"x12"	24"X24"	F
	705	900	TITUS	PAR	PERFORATED	-	X	X	CEILING	24"X24"	18"X18"	18" DIA. / 24"x12"	24"X24"	F
	905	1100	TITUS	PAR	PERFORATED	-	X	X	CEILING	24"X24"	18"X18"	20" DIA. / 24"x14"	24"X24"	F
	1105	1500	TITUS	PAR	PERFORATED	-	X	X	CEILING	24"X24"	22"X22"	22" DIA. / 30"x14"	24"X24"	F
	1505	2200	TITUS	PAR	PERFORATED	-	X	X	CEILING	48"X24"	22"X46"	36"x16"	48"X24"	F
	2205	2600	TITUS	PAR	PERFORATED	-	X	X	CEILING	48"X24"	22"X46"	40"x18"	48"X24"	F
SS2/SR2/SE2	0	50	TITUS	SG-SD	PERFORATED FACE (MINIMUM SECURITY)	X	X	X	CEILING	8"X8"	8"X8"	6" DIA. / 8"x4"	N/A	M
	55	150	TITUS	SG-SD	PERFORATED FACE (MINIMUM SECURITY)	X	X	X	CEILING	8"X8"	8"X8"	8" DIA. / 10"x6"	N/A	M
	155	300	TITUS	SG-SD	PERFORATED FACE (MINIMUM SECURITY)	X	X	X	CEILING	12"X12"	12"X12"	10" DIA. / 12"x8"	N/A	M
	305	450	TITUS	SG-SD	PERFORATED FACE (MINIMUM SECURITY)	X	X	X	CEILING	18"X18"	18"X18"	12" DIA. / 14"x10"	N/A	M
	455	650	TITUS	SG-SD	PERFORATED FACE (MINIMUM SECURITY)	X	X	X	CEILING	18"X18"	18"X18"	14" DIA. / 16"x10"	N/A	M

GENERAL NOTES:

1. DIFFUSERS AND GRILLES SHOWN ON FLOOR PLANS ARE TYPE S1, R3, OR E3 UNLESS NOTED OTHERWISE.
2. PROVIDE MOUNTING STYLE BASED ON CEILING TYPE INDICATED ON THE REFLECTED CEILING PLANS.
3. ALL AIR DISTRIBUTION DEVICES SHALL HAVE A MAXIMUM NC RATING OF 25.
4. IN AREAS WITH LAY-IN CEILINGS, PROVIDE LISTED PANEL SIZE. IN AREAS WITH HARD CEILINGS, PROVIDE SURFACE MOUNTED TYPE AIR DISTRIBUTION DEVICE AT LISTED FACE SIZE WITHOUT PANEL.
5. ALL AIR DEVICES LOCATED IN INACCESSIBLE HARD CEILINGS SHALL BE PROVIDED WITH VOLUME DAMPERS (OPPOSED BLADE WHEN AVAILABLE).
6. CONTRACTOR SHALL PAINT THE INTERIOR OF RETURN / EXHAUST SQUARE TO ROUND TRANSITIONS AND PLENUMS FLAT BLACK.
7. PROVIDE TRANSITION AS REQUIRED FOR DUCT AND DEVICE CONNECTION.
8. LOW SIDEWALL RETURN / EXHAUST GRILLES SIZED AT MAXIMUM CORE FACE VELOCITY OF 500 FPM.
9. RUNOUT DUCTS FOR RETURN / EXHAUST GRILLES SIZED AT MAXIMUM VELOCITY OF 600 FPM.
10. CEILING DIFFUSERS ARE 4-WAY THROW UNLESS NOTED OTHERWISE. INCREASE NECK SIZE ONE STEP FOR 2-WAY THROW AND PROVIDE BLANK OFF PLATES AS REQD.
11. REFER TO SPECIFICATION SECTION 233300 FOR ADDITIONAL REQUIREMENTS.

REMARKS:

A - BLADES PARALLEL TO THE SHORT DIMENSION
B - BLADES PARALLEL TO THE LONG DIMENSION
C - FIELD EXTERNALLY INSULATED PLENUM / BACKPAN
D - MANUFACTURER PROVIDED EXTERNAL INSULATION
E - FACTORY LEAK TESTED
F - MANUFACTURER PROVIDED BACK PLENUM WITH NECK OPENING SIZES INDICATED
G - PROVIDE WITH KNIFE EDGE FOR HEPA GEL SEAL
H - COLOR SELECTED BY ARCHITECT
I - PROVIDE BLANK OFF PLATES FOR UNUSED PORTIONS OF CONTINUOUS SLOT
J - HEAVY DUTY CONSTRUCTION
K - PROVIDE WITH HINGED FRAME
L - FACE OPERATED (VIA SLOT) OPPOSED BLADE DAMPER
M - REAR OPERATED (VIA SLOT) OPPOSED BLADE DAMPER

MECHANICAL CONTROLS ABBREVIATIONS

A.T.C.P.	AUTOMATIC TEMPERATURE CONTROL PANEL	HLSPS	HIGH LIMIT STATIC PRESSURE SENSOR	PHT	PREHEAT COIL DISCHARGE TEMPERATURE
AFMS	AIRFLOW MEASURING STATION	HMT	HUMIDISTAT	PL	PILOT LIGHT
AUX.	STARTER AUXILIARY CONTACT	HOA	HAND-OFF-AUTO SWITCH	RAH	RETURN AIR HUMIDITY
BAS	BUILDING AUTOMATION SYSTEM (ALSO DDC)	M	MAIN CONTROL AIR SOURCE	RAT	RETURN AIR TEMPERATURE
C	CONTACTOR OR STARTER	MAT	MIXED AIR TEMPERATURE	SD	SMOKE DETECTOR
C.C.T.	STARTER CONTROL CIRCUIT TRANSFORMET	MMS	MAGNETIC STARTER	SPC	DUCT STATIC PRESSURE
DAT	DISCHARGE AIR TEMPERATURE	N.C.	NORMALLY CLOSED	T'STAT	THERMOSTAT
DPS	FILTER DIFFERENTIAL PRESSURE SWITCH	N.O.	NORMALLY OPEN	VFD	VARIABLE FREQUENCY DRIVE
DPT	DIFFERENTIAL PRESSURE TRANSMITTER	NAE	NETWORK AUTOMATION ENGINE	WFM	WATER FLOW MEASURING STATION
FEC	FIELD EQUIPMENT CONTROLLER	OAT	OUTSIDE AIR TEMPERATURE	WT	WATER TEMPERATURE
FRZ	FREESESTAT	OAT	OUTSIDE AIR TEMPERATURE		
FS	FIRESTAT	OL	OVERLOADS		
FS	FLOW SWITCH	PBSS	PUSH BUTTON START/STOP		

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JASPER B. BRIGGS REGISTERED ENGINEER AGRICULTURE NO. 114611 STATE OF TENNESSEE
10/28/2019

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

MECHANICAL GENERAL NOTES AND LEGENDS

DRAWN BY:	DJ	
DESIGNED BY:	CB	
CHECKED BY:	DB	
PHASE:	CD	DRAWING NO:
DATE:	11-08-2019	M-0.0

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FAN SCHEDULE

GENERAL NOTES:
1. MOTOR H.P. SHALL COMPLY WITH ASHRAE 90.1.
2. BHP SHALL BE NO GREATER THAN 90% OF THE MOTOR H.P.
3. CFM AT SITE ELEVATION OF XXX FT. STATIC PRESSURE AT SEA LEVEL.

FAN TYPES:
BVS - BELTED VENT SET.
CEILING - CEILING MOUNTED FAN.
MF - MIXED FLOW FAN.
PRE - POWER ROOF EXHAUSTER.
PROP - PROPELLER.
PRS - POWER ROOF SUPPLY FAN.
PRV - POWER ROOF VENTILATOR.
SQI - SQUARE-INLINE CENTRIFUGAL.
TA - TUBE AXIAL.
TC - TUBULAR CENTRIFUGAL (INLINE).
UBD - UPBLAST DILUTION FAN.
VA - VANE AXIAL.
HP - HOODED PROPELLER

WHEEL TYPES:
AF - AIR FOIL.
BI - BACKWARD INCLINE.
FC - FORWARD CURVED.
ESP - EXTERNAL STATIC PRESSURE.
TS - MAX. TIP SPEED (RPM).

STARTER TYPES / ACCESS:
MAG-X-L - COMBINATION MAGNETIC ACROSS THE LINE STARTER.
MMS - MANUAL MOTOR STARTER.
VFD - VARIABLE FREQUENCY DRIVE.
EP - EMERGENCY POWER.

ACCESSORIES:
1. LINED HOUSING.
2. DOUBLE WALL HOUSING.
3. WEATHERPROOF HOUSING.
4. OSHA BELT GUARD.
5. MOTOR COVER.
6. FAN CAGE WITH WALL SLEEVE.
7. ACCESS DOOR.
8. HOUSING DRAIN.
9. INLET SCREEN.
10. OUTLET SCREEN.
11. MOTORIZED INLET DAMPERS.
12. MOTORIZED OUTLET DAMPERS.
13. GRAVITY INLET DAMPERS.
14. GRAVITY OUTLET DAMPERS.
15. UL 793 BUTTERFLY DISCHARGE DAMPER.
16. INLET BELL.
17. OUTLET CONE.
18. HIGH VELOCITY DISCHARGE CONE.
19. ROOF CURB.
20. WALL CURB.
21. COPLANER SILENCER.
22. INLET AIRFLOW STRAIGHTENER.
23. INLET AND OUTLET REGAIN ATTENUATORS.
24. FAN ROLL OUT EQUIPMENT.
25. AUTOMATIC BELT TENSIONER.
26. SOLID STATE SPEED CONTROLLER (PRE-WIRED).
27. SOLID STATE SPEED CONTROLLER (FIELD INSTALLED).
28. DISCONNECT SWITCH IN FAN HOUSING (PRE-WIRED).
29. DISCONNECT SWITCH IN FAN HOUSING (FIELD INSTALLED).
30. FAN INLET PIEZOMETRIC AIRFLOW MEASUREMENT RING.
31. ELECTRONICALLY COMMUNICATED MOTOR (ECM).
32. 1" FILTER (ESP INCLUDES DIRTY FILTER LOSS).
33. 2" FILTER (ESP INCLUDES DIRTY FILTER LOSS).
34. HAND-OFF-AUTOSWITCH IN MOTOR STARTER.
35. CONTROL CIRCUIT TRANSFORMER IN MOTOR STARTER.

REMARKS:
A. EXPLOSION PROOF MOTOR WITH NON-SPARKING WHEEL AND DRIVE ASSEMBLY.
B. UL 762 LISTING WITH GREASE TROUGH, HINGED FAN ACCESS,
DUCT ADAPTIVE PLATE AND CURB EXTENSION TO MAINTAIN INCHES ABOVE THE ROOF.
C. UL LISTED FOR SMOKE CONTROL SYSTEM.
D. STAINLESS STEEL SHAFT AND HARDWARE.
E. ALUMINUM WHEEL AND HOUSING.
F. CONCRETE INERTIA BASE (TYPE C).
G. REVERSIBLE MOTOR.
H. TWO SPEED MOTOR.
I. TEAO MOTOR.
J. TEFC MOTOR.
K. DIRECT DRIVE

DESIGNATION	QUANTITY	SERVICE	MANUFACTURER	MODEL NUMBER	TYPE	CFM	ESP (IN. WG)	WHEEL			MOTOR							dB 63 Hz IN / OUT	dB 125 Hz IN / OUT	dB 250 Hz IN / OUT	dB 500 Hz IN / OUT	dB 1000 Hz IN / OUT	dB 2000 Hz IN / OUT	dB 4000 Hz IN / OUT	dB 8000 Hz IN / OUT	dB LwA IN / OUT	MAX. SONES	ROOF / WALL OPENING	OPERATING WEIGHT (LBS)	ACCESSORIES	REMARKS
								TYPE	SIZE	TS	BHP	MIN. HP	RPM	VOLTAGE	PHASE	STARTER	EP														
EF 10-4	10	SMOKE EXHAUST	GREENHECK	AX-72	TA	12000	0.25	-	-	-	2.95	3	1770	460	3	VFD	Y	-	-	-	-	-	-	-	-	-	33	-	500	10, 11, 19, 29, 34	C, K
EF 8-4	4	SMOKE EXHAUST	GREENHECK	AX-72	TA	12000	0.25	-	-	-	2.95	3	1770	460	3	VFD	Y	-	-	-	-	-	-	-	-	-	33	-	500	10, 11, 19, 29, 34	C, K
SF 10-4	10	SMOKE SUPPLY	GREENHECK	RS2-30	HP	12000	0.25	-	-	-	1.74	3	1770	460	3	VFD	Y	-	-	-	-	-	-	-	-	-	33	-	500	9, 12, 19, 29, 34	C, K
SF 8-4	4	SMOKE SUPPLY	GREENHECK	RS2-30	HP	12000	0.25	-	-	-	1.74	3	1770	460	3	VFD	Y	-	-	-	-	-	-	-	-	-	33	-	500	9, 12, 19, 29, 34	C, K
EF 5-7	1	SMOKE EXHAUST	GREENHECK	GB-101	PRV	920	0.25	-	-	-	0.14	0.25	1800	115	1	MMS	Y	-	-	-	-	-	-	-	-	-	15	-	60	10, 19, 29, 34	C
EF 5-8	1	SMOKE EXHAUST	GREENHECK	GB-131	PRV	1760	0.25	-	-	-	0.3	0.33	1725	115	1	MMS	Y	-	-	-	-	-	-	-	-	-	15	-	60	10, 19, 29, 34	C
SF 5-1	1	SMOKE SUPPLY	GREENHECK	AS-12	PRS	1280	0.25	-	-	-	0.12	0.25	1750	115	1	MMS	Y	-	-	-	-	-	-	-	-	-	15	-	60	9, 12, 19, 26, 29, 34	C, K
SF 5-2	1	SMOKE SUPPLY	GREENHECK	AS-20	PRS	2200	0.25	-	-	-	0.2	0.5	1010	115	1	MMS	Y	-	-	-	-	-	-	-	-	-	15	-	80	9, 12, 19, 26, 29, 34	C, K

AIR HANDLING UNIT SCHEDULE

GENERAL NOTES:
1. PROVIDE NEW ROOFCURB AND CURB ADAPTER AND PIPE CABINET.
2. REFER TO PLANS FOR OVERALL AHU SIZE, COMPONENTS AND ARRANGEMENT.
3. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. 120V (FIELD WIRED) RECEPTACLE.
5. 120V POWER FOR CONTROLS CABINET.
6. MULTI POINT POWER CONNECTIONS. REFER TO RETURN FAN SCHEDULE.

REMARKS:
A. SUPPLY FAN TOTAL STATIC PRESSURE (TSP) INCLUDES SCHEDULED DIRTY FILTER LOSS.
B. BRAKE HP FOR SUPPLY FANS SHALL BE NO GREATER THAN 85% OF THE MOTOR HP.
C. DRAIN PAN IN FAN SECTIONS FOR DRAW THRU CONFIGURATIONS.
D. PROVIDE PREMIUM EFFICIENT MOTOR(S).
E. EXTERNAL STATIC PRESSURE PERTAINS TO DUCTWORK AND EXTERNAL COMPONENTS ONLY.
F. DOWNFLOW CONFIGURATION
G. 2" FILTER BOX WITH MERV 8 PLEATED FILTERS
H. ECONOMIZER
I. AHU FIRE ALARM RELAYS
J. 2" DOUBLEWALL PANELS

DESIGNATION	QUANTITY	MANUFACTURER	MODEL NUMBER	TYPE	OUTSIDE AIR CFM		SUPPLY FAN																	
										WHEEL(S)					MOTOR(S)						STARTER			
					MIN	MAX	CFM/ FAN	ESP (IN. WG)	TSP (IN. WG)	QTY	TYPE	DIA (IN.)	RPM	DRIVE	QTY	BHP (EA)	MIN. HP (EA)	MCA	MOCP	VOLT /PH	TYPE	QTY	EP
AHU-8-1	x1	TRANE	CSAA	21	900	4015	4015	2	3.25	1	AF	18	1520	BELT	1	4.443	5	10.25	15	460/3	MAG-X-L	1	Y
AHU-8-2	x1	TRANE	CSAA	21	900	4015	4015	2	3.25	1	AF	18	1520	BELT	1	4.443	5	10.25	15	460/3	MAG-X-L	1	Y
AHU-8-3	x1	TRANE	CSAA	21	900	4015	4015	2	3.25	1	AF	18	1520	BELT	1	4.443	5	10.25	15	460/3	MAG-X-L	1	Y
AHU-8-4	x1	TRANE	CSAA	21	900	4015	4015	2	3.25	1	AF	18	1520	BELT	1	4.443	5	10.25	15	460/3	MAG-X-L	1	Y
AHU-8-5	x1	TRANE	PSCA	15	1620	6480	6480	2	3.5	1	BI	20	2206	DIRECT	1	6.4	7.5	8.04	15	460/3	MAG-X-L	1	Y
AHU-10-1	x5	TRANE	CSAA	21	1750	9985	9985	2	3.5	1	AF	20	2283	BELT	1	8.69	10	15.93	25	460/3	MAG-X-L	1	Y
AHU-10-1	x5	TRANE	CSAA	21	1750	9985	9985	2	3.5	1	AF	20	2283	BELT	1	8.69	10	15.93	25	460/3	MAG-X-L	1	Y
AHU-10-3	x5	TRANE	CSAA	14	520	2945	2945	2	3.5	1	AF	16.5	2327	BELT	1	3.12	5	8.38	15	460/3	MAG-X-L	1	Y

DESIGNATION	COOLING COIL													HEATING COIL												OPERATING WEIGHT (LBS)	REMARKS
	FLUID	CFM	MAX. FACE VEL. (FPM)	EAT (° F)	LAT (° F)	SENSIBLE CAPACITY (MBTU/HR)	TOTAL CAPACITY (MBTU/HR)	EWT (° F)	LWT (° F)	GPM	ROWS & FPI	MAX. AIR PD (IN. WG)	MAX. WATER PD (FT HD)	FLUID	CFM	MAX FACE VEL. (FPM)	EAT (° F)	LAT (° F)	CAPACITY (MBTU/HR)	EWT (° F)	LWT (° F)	GPM	ROWS & FPI	MAX. AIR PD (IN. WG)	MAX. WATER PD (FT. HD)		
AHU-8-1	WATER	4015	550	80	57	100.2	127.3	44	56	21.2	6/10	0.75	15	WATER	4015	550	52.8	85	139.5	185	160	11.2	2/10	0.15	5	4500	A,B,C,D,E,F,G,H,I,J
AHU-8-2	WATER	4015	550	80	57	100.2	127.3	44	56	21.2	6/10	0.75	15	WATER	4015	550	52.8	85	139.5	185	160	11.2	2/10	0.15	5	4500	A,B,C,D,E,F,G,H,I,J
AHU-8-3	WATER	4015	550	80	57	100.2	127.3	44	56	21.2	6/10	0.75	15	WATER	4015	550	52.8	85	139.5	185	160	11.2	2/10	0.15	5	4500	A,B,C,D,E,F,G,H,I,J
AHU-8-4	WATER	4015	550	80	57	100.2	127.3	44	56	21.2	6/10	0.75	15	WATER	4015	550	52.8	85	139.5	185	160	11.2	2/10	0.15	5	4500	A,B,C,D,E,F,G,H,I,J
AHU-8-5	WATER	6480	550	82.2	56	169.4	254	44	56	40.6	6/10	0.75	15	WATER	6480	550	51	90	272.9	185	160	21.8	2/10	0.15	5	3500	A,B,C,D,E,F,G,H,I,J
AHU-10-1	WATER	9985	550	79.3	56.5	247	303.4	44	56	50.6	6/10	0.75	15	WATER	9985	550	56	85	312.7	185	160	25	2/10	0.15	5	5000	A,B,C,D,E,F,G,H,I,J
AHU-10-1	WATER	9985	550	79.3	56.5	247	303.4	44	56	50.6	6/10	0.75	15	WATER	9985	550	56	85	312.7	185	160	25	2/10	0.15	5	5000	A,B,C,D,E,F,G,H,I,J
AHU-10-3	WATER	2949	550	78.9	56.5	74.6	92.5	44	56	15.4	6/10	0.75	15	WATER	2945	550	35	56.8	25.8	185	160	2	2/10	0.15	5	3500	A,B,C,D,E,F,G,H,I,J

AHU RETURN/RELIEF FAN SCHEDULE

GENERAL NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. CONTROL SEQUENCE PER DRAWINGS.

REMARKS:
A. BRAKE HP SHALL BE NO GREATER THAN 85% OF MOTOR HP.
B. PROVIDE PREMIUM EFFICIENT INVERTER DUTY MOTORS.
C. EXTERNAL STATIC PRESSURE PERTAINS TO DUCTWORK AND EXTERNAL COMPONENTS ONLY.

DESIGNATION	QUANTITY	CFM/FAN	ESP (IN. WG)	TSP (IN. WG)	WHEEL(S)				DRIVE	MOTOR (S)								EP	REMARKS
					QTY	TYPE	DIA. (IN.)	RPM		QTY	BHP (EA)	MIN. HP (EA)	MCA	MOCP	VOLT/PH	STARTER TYPE	STARTER QTY		
AHU-8-1	x1	4015	1	1.17	1	AF	20	890	BELT	1	1.1	1.5	3.62	15	460/3	MAG-X-L	1	N	A,B,C
AHU-8-2	x1	4015	1	1.17	1	AF	20	890	BELT	1	1.1	1.5	3.62	15	460/3	MAG-X-L	1	N	A,B,C
AHU-8-3	x1	4015	1	1.17	1	AF	20	890	BELT	1	1.1	1.5	3.62	15	460/3	MAG-X-L	1	N	A,B,C
AHU-8-4	x1	4015	1	1.17	1	AF	20	890	BELT	1	1.1	1.5	3.62	15	460/3	MAG-X-L	1	N	A,B,C
AHU-8-5	x1	6480	1.25	1.68	1	BI	24	1050	DIRECT	1	1.83	2	6.86	15	460/3	MAG-X-L	1	N	A,B,C
AHU-10-1	x5	2945	1.5	1.5	1	AF	22	1150	BELT	1	4.2	5	8.375	15	460/3	MAG-X-L	1	N	A,B,C
AHU-10-2	x5	2945	1.5	1.5	1	AF	22	1150	BELT	1	4.2	5	8.375	15	460/3	MAG-X-L	1	N	A,B,C
AHU-10-3	x5	9985	0.75	1	1	AF	18	1040	BELT	2	0.915	1.5	1.875	15	460/3	MAG-X-L	1	N	A,B,C

SMOKE MANAGEMENT OPERATION MATRIX
HIGH SECURITY HOUSING UNIT

	EQUIP TAG	SMOKE DETECTED IN ZONE 1		SMOKE DETECTED IN ZONE 2		SMOKE DETECTED IN ZONE 3		SMOKE DETECTED IN ZONE 4		SMOKE DETECTED IN ZONE 5	
		OPERATION MODE	STATUS	OPERATION MODE	STATUS	OPERATION MODE	STATUS	OPERATION MODE	STATUS	OPERATION MODE	STATUS
ZONE 1	AHU 8-1	FZ	OFF	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		ADJ	OFF
	EF(S): SF 8-4	FZ	ON							ADJ	ON
	EF(S): EF 8-4	FZ	ON							ADJ	ON
	EF(G)	FZ	NORMAL							ADJ	NORMAL
ZONE 2	AHU 8-2	NORMAL OPERATION		FZ	OFF	NORMAL OPERATION		NORMAL OPERATION		ADJ	OFF
	EF(S): SF 8-4			FZ	ON					ADJ	ON
	EF(S): EF 8-4			FZ	ON					ADJ	ON
	EF(G)			FZ	NORMAL					ADJ	NORMAL
ZONE 3	AHU 8-3	NORMAL OPERATION		NORMAL OPERATION		FZ	OFF	NORMAL OPERATION		ADJ	OFF
	EF(S): SF 8-4					FZ	ON			ADJ	ON
	EF(S): EF 8-4					FZ	ON			ADJ	ON
	EF(G)					FZ	NORMAL			ADJ	NORMAL
ZONE 4	AHU 8-4	NORMAL OPERATION		NORMAL OPERATION		NORMAL OPERATION		FZ	OFF	ADJ	OFF
	EF(S): SF 8-4							FZ	ON	ADJ	ON
	EF(S): EF 8-4							FZ	ON	ADJ	ON
	EF(G)							FZ	NORMAL	ADJ	NORMAL
ZONE 5	AHU 8-5	ADJ	ON	ADJ	ON	ADJ	ON	ADJ	ON	FZ	OFF
	EF (G)	ADJ	NORMAL	ADJ	NORMAL	ADJ	NORMAL	ADJ	NORMAL	FZ	NORMAL

NOTES
1. AHU IN "ON" POSITION INDICATES AHU FAN RUNNING IN ECONOMIZER MODE WITHOUT COMPRESSOR IN OPERATION. IN THE WINTER, HEAT IS TO BE PROVIDED TO TEMPER OUTSIDE AIR. VAV BOX DAMPERS ARE OPEN TO MAX POSITION.
2. EF(S) INDICATES SMOKE DUTY FAN . REFER TO SCHEDULE OR FLOORPLANS FOR DUTY INDICATION.
3. EF(G) INDICATES GENERAL EXHAUST DUTY FAN. REFER TO SCHEDULE OR FLOOR PLAN FOR DUTY INDICATION
4. FZ INDICATES FIRE ZONE OR ZONE OF INCIDENT.
5. ADJ INDICATES ZONE ADJACENT TO FIRE ZONE.
6. WHEN EF(S) IS "ON", NORMALY CLOSED DAMPERS SHALL OPEN TO ALLOW AIR FLOW FROM THE ZONE. DAMPERS SHALL REMAIN CLOSED WHEN FAN IS NON-ENERGIZED.

SMOKE MANAGEMENT OPERATION MATRIX
MEDIUM SECURITY HOUSING UNIT

	EQUIP TAG	SMOKE DETECTED IN ZONE 1		SMOKE DETECTED IN ZONE 2	
		OPERATION MODE	STATUS	OPERATION MODE	STATUS
ZONE 1	AHU 10-1	FZ	OFF	NORMAL OPERATION	
	EF(S): SF 10-4	FZ	ON		
	EF(S): EF 10-4	FZ	ON		
	EF(G)	FZ	NORMAL		
ZONE 2	AHU 10-2	NORMAL OPERATION		FZ	OFF
	EF(S): SF 10-4			FZ	ON
	EF(S): EF 10-4			FZ	ON
	EF(G)			FZ	NORMAL
ZONE 3	AHU 10-3	ADJ	ON	ADJ	ON
	EF (G)	ADJ	NORMAL	ADJ	NORMAL

NOTES
1. AHU IN "ON" POSITION INDICATES AHU FAN RUNNING IN ECONOMIZER MODE WITHOUT COMPRESSOR IN OPERATION. IN THE WINTER, HEAT IS TO BE PROVIDED TO TEMPER OUTSIDE AIR.
2. EF(S) INDICATES SMOKE DUTY FAN . REFER TO SCHEDULE OR FLOORPLANS FOR DUTY INDICATION.
3. EF(G) INDICATES GENERAL EXHAUST DUTY FAN. REFER TO SCHEDULE OR FLOOR PLAN FOR DUTY INDICATION
4. FZ INDICATES FIRE ZONE OR ZONE OF INCIDENT.
5. ADJ INDICATES ZONE ADJACENT TO FIRE ZONE.
6. WHEN EF(S) IS "ON", NORMALY CLOSED DAMPERS SHALL OPEN TO ALLOW AIR FLOW FROM THE ZONE. DAMPERS SHALL REMAIN CLOSED WHEN FAN IS NON-ENERGIZED.

SMOKE MANAGEMENT OPERATION MATRIX
HEALTH SERVICES BUILDING

	EQUIP TAG	SMOKE DETECTED IN ZONE 1		SMOKE DETECTED IN ZONE 2		SMOKE DETECTED IN ZONE 3	
		OPERATION MODE	STATUS	OPERATION MODE	STATUS	OPERATION MODE	STATUS
ZONE 1	MOTORIZED DAMPER SUPPLY FPI 5-2-4	FZ	CLOSED	NORMAL OPERATION		ADJ	CLOSED
	EF (S):SF 5-1	FZ	ON			ADJ	ON
	EF (S): EF 5-7	FZ	ON			ADJ	ON
ZONE 2	MOTORIZED DAMPER SUPPLY FPI 5-2-2	NORMAL OPERATION		FZ	CLOSED	ADJ	CLOSED
	EF (S): SF 5-2			FZ	ON	ADJ	ON
	EF (S): EF 5-8			FZ	ON	ADJ	ON
ZONE 3	AHU 5-1	ADJ	NORMAL	ADJ	NORMAL	FZ	OFF
	AHU 5-2	ADJ	ON	ADJ	ON	FZ	OFF
	EF (G)	ADJ	NORMAL	ADJ	NORMAL	FZ	NORMAL

NOTES
1. AHU IN "ON" POSITION INDICATES AHU FAN RUNNING IN ECONOMIZER MODE WITHOUT COMPRESSOR IN OPERATION. IN THE WINTER, HEAT IS TO BE PROVIDED TO TEMPER OUTSIDE AIR.
2. EF(S) INDICATES SMOKE DUTY FAN . REFER TO SCHEDULE OR FLOORPLANS FOR DUTY INDICATION.
3. EF(G) INDICATES GENERAL EXHAUST DUTY FAN. REFER TO SCHEDULE OR FLOOR PLAN FOR DUTY INDICATION
4. FZ INDICATES FIRE ZONE OR ZONE OF INCIDENT.
5. ADJ INDICATES ZONE ADJACENT TO FIRE ZONE.
6. WHEN EF(S) IS "ON", NORMALY CLOSED DAMPERS SHALL OPEN TO ALLOW AIR FLOW FROM THE ZONE. DAMPERS SHALL REMAIN CLOSED WHEN FAN IS NON-ENERGIZED.

MANUFACTURES LISTED ARE BASIS OF DESIGN. APPROVED EQUAL MANUFACTURES ARE ACCEPTABLE

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SSR Project #: 17671400

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

MECHANICAL SCHEDULES

DRAWN BY: DJ
DESIGNED BY: CB
CHECKED BY: DB

PHASE: CD
DATE: 11-08-2019
DRAWING NO: M-0.1

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EXISTING AIR HANDLER SCHEDULE

IDENTIFICATION	TYPE	C.F.M. TOTAL	MIN. OA	MAX. OA	SUPPLY FAN DATA						COOLING COIL DATA							HEATING COIL DATA						RETURN / RELIEF FAN DATA					ACCESSORIES/REMARKS
					TYPE	TOTAL S.P.	VOLTAGE	HP.	V.V.O.R C.V.	STARTER TYPE	E.A.T. DB./WB.	L.A.T. DB./WB.	M.B.H. TOTAL	ENTERING WTR. TEMP.	G.P.M.	MAX.P.D. (CW)	MAX.P.D. (AIR)	MAX.CFV (F.P.M.)	TYPE	E.A.T. DB.	L.A.T. DB.	CAP. MBH.	ENTERING TEMP. WATER	G.P.M.	MAX.P.D. (H.W.)FT.	MAX.P.D. (AIR) IN.	C.F.M.	S.P.	VOLTAGE	HP.	STARTER TYPE	
AHUI-1	(B)	5040	500	5040	FC	4"	460/3/60	7½	CV	(D)	78/63.5	56/55.5	105	42°F	15	5'	0.8"	550	HW	61	110	268	185°F	21.4	13.4'	0.10"	——	——	——	——	——	(F) (M) (J) (K) (N) (S) (U)
AHUI-2	(B)	1465	160	1465	FC	2.5"	460/3/60	3	CV	(D)	78/64	52/52	48	42°F	6.9	1.31'	0.8"	550	HW	61	110	77.5	185°F	6.2	0.1'	0.10"	——	——	——	——	——	(F) (M) (J) (K) (N) (S)
AHUI-3	(B)	4000	400	4000	FC	4"	460/3/60	7½	CV	(D)	78/63.5	56/55.5	95	42°F	13.6	4'	0.8"	550	HW	61	110	211.7	185°F	16.9	7.2'	0.10"	——	——	——	——	——	(F) (M) (J) (K) (N) (S)
AHUI-4	(B)	3864	400	3864	FC	3"	460/3/60	5	CV	(D)	75/61	52/52	96	42°F	13.7	4.9'	0.8"	550	HW	61	93	133.5	185°F	10.7	1.7'	0.10"	——	——	——	——	——	(F) (M) (J) (K) (N) (S)
AHUI-5	(B)	1360	140	1360	FC	2"	460/3/60	3	CV	(D)	78/63.5	56/55.5	45	42°F	6.4	1.3'	0.8"	550	HW	61	110	72	185°F	5.8	5'	0.10"	——	——	——	——	——	(F) (M) (J) (K) (N) (S)
AHUI-6	(B)	600	160	600	FC	2.25"	460/3/60	3	CV	(D)	80/67	56/56	41	42°F	5.9	1.3'	0.5"	550	HW	58	110	64	185°F	5.1	0.3'	0.3"	——	——	——	——	——	(F) (M) (J) (K) (N) (S)
HVI-1	(B)	12,200	——	12,200	FC	0.5"	460/3/60	5	CV	(D)	——	——	——	——	——	——	——	——	HW	0	70	925	185°F	74	1.7'	0.10"	——	——	——	——	——	(M) (N) (O) (F) (S) (P) (U)
AHU2-1	(A)	17,450	4360	17,450	FC	2.25"	460/3/60	15	CV	(D)	81.5/66.7	54.2/53.9	695.6	44°F	116	4.0'	0.74'	550	HW	55.3°F	85.0°F	562.1	185°F	45	0.49'	0.09"	17450	.5"	460/3/60	15	(D)	(D) (E) (H) (J) (K) (L) (N)
AHU2-2	(A)	17,535	4385	17,535	FC	2.25"	460/3/60	15	CV	(D)	81.5/66.7	54.2/53.9	698.5	44°F	116.4	4.0'	0.75'	550	HW	55.3°F	85.0°F	564.8	185°F	45.2	0.49'	0.09"	17535	.5"	460/3/60	15	(D)	(D) (E) (H) (J) (K) (L) (N)
AHU2-3	(A)	17,500	4375	17,500	FC	2.25"	460/3/60	15	CV	(D)	81.5/66.7	54.2/53.9	697.4	44°F	116.2	4.0'	0.75'	550	HW	55.3°F	85.0°F	563.7	185°F	45.1	0.49'	0.09"	17500	.5"	460/3/60	15	(D)	(D) (E) (H) (J) (K) (L) (N)
AHU2-4	(A)	9575	2400	9575	FC	2.25"	460/3/60	7½	CV	(D)	81.5/66.7	54.2/53.9	370.4	44°F	61.7	1.9'	0.80"	550	HW	55.3°F	90.0°F	360.3	185°F	28.8	1.9'	0.10"	9575	.5"	460/3/60	5	(D)	(D) (E) (H) (J) (K) (L) (N)
AHU3-1	(C)	9750	3390	9750	FC	3.5"	460/3/60	10	CV	(D)	82/69.5	53/52.2	520.0	44°F	74.3	15'	1.0"	550	PREHEAT	45.6	75.0	322.2	180°F	32.2	5'	0.10"	——	——	——	——	——	(E) (N) (H)
AHU3-2	(C)	9870	3435	9870	FC	3.5"	460/3/60	10	VV	(D)	82/69.5	53/52.2	526.4	44°F	75.2	15'	1.0"	550	PREHEAT	45.6	75.0	326.2	180°F	32.6	5'	0.10"	——	——	——	——	——	(E) (N) (H)
AHU3-3	(A)	5345	1070	5345	FC	2.25"	460/3/60	7½	CV	(D)	79/66	55/54.2	190.3	44°F	38	15'	1.0"	550	PREHEAT	56	95.0	225	180°F	15.9	5'	0.10"	——	——	——	——	——	(E) (N) (H)
AHU3-4	(A)	2100	2100	2100	FC	0.75"	120/1/60	¾	CV	(D)	——	——	——	——	——	——	——	——	HEATING	0	70	158.7	180°F	15.9	5'	0.10"	——	——	——	——	——	(E) (N) (H) (L)
AHU3-5	(A)	10,080	10,080	10,080	——	——	——	——	——	——	——	——	——	——	——	——	——	——	HEATING	0	70	762	180°F	76.2	5'	0.10"	——	——	——	——	——	(H) (L)
AHU4-1	(C)	12,425	2220	12,425	FC	3.75"	460/3/60	15	VV	(D)	79.1/65.1	55.3/54.4	404.4	44°F	67.4	15'	0.75"	550	PREHEAT	0	55	132.0	185°F	10.5	——	——	REFER TO FAN DATA					(C) (E) (G) (H) (K) (N)
AHU5-1	(C)	5550	583	5550	FC	4"	460/3/60	7.5	VV	(D)	77/63	53/53	162.3	44°F	27.1	2.5'	0.75"	550	PREHEAT	0	55	35.6	185°F	2.9	——	0.10"	——	——	——	——	——	(E) (N) (G) (R)
AHU5-2	(C)	7350	3500	7990	FC	4"	460/3/60	10	VV	(D)	84/68	54.5/54.3	258	44°F	58.4	9'	0.75"	550	PREHEAT	0	55	207.9	185°F	16.6	2.6'	0.10"	——	——	——	——	——	(E) (G) (N) (G) (R)
AHU6-1	(C)	8540	2520	8540	FC	4"	460/3/60	15	VV	(D)	82/68	55/54	366.5	44°F	61.1	6'	0.75"	550	PREHEAT	0	55	149.7	185°F	12.0	1'	0.10"	——	——	——	——	——	(E) (N) (H) (K)
AHU6-2	(C)	9315	2860	9315	FC	4"	460/3/60	15	VV	(D)	81/68	55/55	385.6	44°F	64.3	6'	0.75"	550	PREHEAT	0	55	170	185°F	13.6	1'	0.10"	——	——	——	——	——	(E) (N) (H) (K)
AHU7-1	(B)	2890	850	2890	FC	2.5"	460/3/60	3	VV	(D)	81/67	54/54	114.4	44°F	19.1	5.3'	0.75"	550	PREHEAT	0	55	51	185°F	4.0	1'	0.10"	——	——	——	——	——	(E) (G) (N) (R)
AHU7-2	(C)	7910	1200	7910	FC	3"	460/3/60	10	CV	(D)	78/66	55/55	262	44°F	43.7	5.9'	0.75"	550	HW	55	95	341	185°F	27.3	1'	0.10"	——	——	——	——	——	(E) (N) (H)
AHU8-1 THRU AHU8-4	(A)	4015	900	4015	FC	3.25"	460/3/60	5	CV	(D)	80.0/66.5	57.0/56.1	127.3	44°F	21.2	15'	0.75"	550	HW	52.8	85.0	139.6	185°F	11.2	5'	0.15"	3119	1.0"	460/3/60	1½	(D)	(E) (I) (K) (4 THUS) (L) (N)
AHU8-5	(A)	6480	1620	6480	FC	3.50"	460/3/60	7½	CV	(D)	82.2/68.1	58.1/56.3	243.4	44°F	40.6	15'	0.75"	550	HW	51.0	90.0	272.9	185°F	21.8	5'	0.15"	4860	1.25"	460/3/60	2	(D)	(E) (I) (K) (L) (N)
AHU9-1	(C)	4430	500	4430	FC	2.5"	460/3/60	5	VV	(D)	77/63	55/55	109.7	44°F	18.3	5'	0.75"	550	PREHEAT	0	55	30	185°F	2.4	5'	——	——	——	——	——	——	(G) (H) (N)
AHU-10 1&2	(A)	9985	1750	9985	FC	3.50"	460/3/60	10	CV	(D)	79.3/65.5	56.5/55.6	303.4	44°F	50.6	15'	0.75"	550	HW	56.0	85.0	312.7	185°F	25	5'	0.15"	8235	1.5"	460/3/60	5	(D)	(E) (I) (K) (L) (N) (4 THUS)
AHUI0-3	(A)	2945	520	2945	FC	3.50"	460/3/60	5	VV	(D)	78.9/65.8	56.5/55.6	92.5	44°F	15.4	15'	0.75"	550	PREHEAT	35.0	56.8	25.8	185°F	2.0	5'	0.2"	2425	0.75"	460/3/60	½	(D)	(E) (I) (G) (K) (L) (N) (SUPPLY & RETURN FANS) (4 THUS)
AHUI2-1	(A)	13,300	2560	13,300	FC	4.00" (3.00"EXT'L)	460/3/60	20	VV	(D)	79.2/65.8	56.7/55.8	409.2	44°F	68.2	15'	0.75"	550	PREHEAT	16	55	141.5	185°F	11.3	5'	0.2"	10,740	1.0"	460/3/60	5	(D)	(D)/2.5" DEFL. (K) (G)/5/8 R (L) 4700 LBS. (N)

(A) ROOF MOUNTED DRAW-THRU
(B) HORIZONTAL DRAW-THRU
(C) VERTICAL DRAW-THRU
(D) COMBINATION ACROSS-THE-LINE, NEMA 3R, WHERE REQUIRED, CIRCUIT BREAKER
(E) WITH FACTORY INTERNAL VIBRATION ISOLATION
(F) SPRING VIBRATION ISOLATION
(G) INLET VANES
(H) MEDIUM CAPACITY FILTER BOX W/2" THICK 30% PLEATED FILTERS
(I) MEDIUM CAPACITY FILTER BOX W/2" THICK 55% PLEATED FILTERS
(J) HIGH EFFICIENCY MIXING BOX W/OPPOSED BLADE LOW LEAK DAMPERS
(K) ECONOMIZER
(L) ROOF CURB
(M) CEILING SUSPENDED
(N) AHU TO SHUT DOWN ON DETECTION OF SMOKE AND/OR FIRE
(O) FILTERS AS INDICATED ON HVAC PLAN
(P) FACE AND BYPASS DAMPERS
(Q) 30% EFFICIENT PREFILTER
(R) 95% EFFICIENT FINAL FILTER
(S) 1" ALUMINUM FILTER
(T) SPRING VIBRATION ISOLATION W/RAIL
(U) EXPLOSION PROOF MOTORS

EXISTING ROOF TOP AIR CONDITIONING UNIT SCHEDULE

MARK	CFM	O.S.A. CFM	EXT. S.P.	MOTOR		COOLING COIL DATA				HEATING COIL DATA			REMARKS
				HP	VOLTAGE	E.A.T. DB / WB	L.A.T. DB / WB	M.B.H. TOTAL	G.P.M. 42° CHW	E.A.T.	L.A.T.	GPM 180° HLO	
RTU-1	3000	300	⅝"	1½	208/3/60	77/64.3	55/53	90.4	18	63° F	112° F	16.0	24" HIGH CURB, ECONOMIZER
RTU-2	3000	300	⅝"	1½	208/3/60	77/64.3	55/53	90.4	18	63° F	112° F	16.0	24" HIGH CURB, ECONOMIZER
RTU-3	2000	200	⅝"	1	208/3/60	77/64.3	55/53	62.7	12.6	63° F	105° F	9.1	24" HIGH CURB, ECONOMIZER
RTU-4	2000	200	⅝"	1	208/3/60	77/64.3	55/53	62.7	12.6	63° F	105° F	9.1	24" HIGH CURB, ECONOMIZER
RTU-5	3000	300	⅝"	1½	208/3/60	77/64.3	55/53	90.4	18	63° F	112° F	16.0	24" HIGH CURB, ECONOMIZER
RTU-6	3000	300	⅝"	1½	208/3/60	77/64.3	55/53	90.4	18	63° F	112° F	16.0	24" HIGH CURB, ECONOMIZER
RTU-7	3200	320	½"	1½	208/3/60	77/64.3	55/53	99.0	19.8	63° F	89° F	9.1	CURB, ECONOMIZER, SUPPLY/RETURN DIFFUSER
RTU-8	4000	400	½"	1½	208/3/60	77/64.3	55/53	122.7	25	63° F	105° F	18.3	CURB, ECONOMIZER, SUPPLY/RETURN DIFFUSER
RTU-11	3400	340	¼"	1	208/3/60	77/64.3	55/53	101.0	20	63° F	106° F	10.1	CURB, ECONOMIZER, SUPPLY/RETURN DIFFUSER
RTU-12	2725	1120	½"	1½	208/3/60	83.2/69.5	57.6/57	101.0	20	44° F	98° F	16.1	CURB, ECONOMIZER
RTU-13	1500	210	½"	1	208/3/60	77/64.3	55/53	65.9	13.2	63° F	90° F	6.2	CURB, ECONOMIZER
RTU-14	2100	210	½"	1	208/3/60	77/64.3	55/53	65.9	13.2	63° F	90° F	6.2	CURB, ECONOMIZER

EXISTING ROOF TOP AIR CONDITIONING UNIT SCHEDULE

MARK	CFM	O.S.A. CFM	EXT. S.P.	MOTOR		COOLING COIL DATA				HEATING COIL DATA			REMARKS
				HP	VOLTAGE	E.A.T. DB / WB	L.A.T. DB / WB	M.B.H. TOTAL	G.P.M. 42° CHW	E.A.T.	L.A.T.	GPM 180° H.W.	
RTU-1A	3000	300	⅝"	3	460/3/60	77/64.3	55/53	90.4	18	63° F	112° F	16.0	24" HIGH CURB, ECONOMIZER, CTRL XFMR
RTU-2A	3150	315	⅝"	3	460/3/60	77/64.3	55/53	94.2	18.8	63° F	112° F	16.7	24" HIGH CURB, ECONOMIZER, CTRL XFMR
RTU-3A	2000	200	⅝"	1	460/3/60	77/64.3	55/53	62.7	12.6	63° F	105° F	9.1	24" HIGH CURB, ECONOMIZER, CTRL XFMR
RTU-4	2000	200	⅝"	1	460/3/60	77/64.3	55/53	62.7	12.6	63° F	105° F	9.1	24" HIGH CURB, ECONOMIZER, CTRL XFMR
RTU-5A	3215	320	⅝"	3	460/3/60	77/64.3	55/53	96.9	19.4	63° F	112° F	17.0	24" HIGH CURB, ECONOMIZER, CTRL XFMR
RTU-6A	3000	300	⅝"	3	460/3/60	77/64.3	55/53	90.4	18	63° F	112° F	16.0	24" HIGH CURB, ECONOMIZER, CTRL XFMR
RTU-15	1470	400	0.4"	1	460/3/60	80.4/67.2	55/53	62.3	12.5	63° F	105° F	6.7	CURB, ECONOMIZER, CTRL XFMR
RTU-16	2160	600	0.4"	1.5	460/3/60	80.6/67.3	55/53	92.4	18.5	63° F	105° F	9.8	CURB, ECONOMIZER, CTRL XFMR
RTU-17	3360	500	0.4"	3	460/3/60	77.7/64.8	55/53	118.9	23.8	63° F	105° F	15.3	CURB, ECONOMIZER, CTRL XFMR
RTU-18	2600	350	0.4"	2	460/3/60	77/64.3	55/53	86.0	13.5	63° F	105° F	11.3	CURB, ECONOMIZER, CTRL XFMR
RTU-19	1740	175	0.4"	1	460/3/60	77/64.3	55/53	52.2	10.5	63° F	105° F	7.9	CURB, ECONOMIZER, CTRL XFMR
RTU-20	2180	570	0.4"	1½	460/3/60	80.2/67.2	55/53	90.8	18.2	63 F	105° F	9.9	CURB, ECONOMIZER, CTRL XFMR

PLAN KEYED NOTES

1. NOT USED.
2. REPLACE ALL CONTROL SENSORS, SWITCHES, SAFETIES, CONTROL DAMPER OPERATORS, ACTUATORS, AND CONTROL VALVES WITH ELECTRONICALLY OPERATED DEVICES FOR EXISTING EQUIPMENT SCHEDULED ON THIS SHEET.
3. REPLACE SUPPLY AND RETURN FAN VFDS FOR AIR HANDLERS.
4. CONNECT AND CONFIGURE EQUIPMENT AND SOFTWARE TO ACHIEVE SEQUENCE OF OPERATION PER CONTROLS SCHEMATIC DRAWINGS.
5. THE BUILDING AUTOMATION SYSTEM (BAS) SHALL BE A COMPLETE AND TURNKEY SYSTEM OF DDC CONTROLS AND SMOKE CONTROL THAT WILL OPERATE TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE TO ACCOMPLISH THE CONTROL SEQUENCES.
6. THE BAS SHALL BE INTEGRATED INTO THE EXISTING DDC SYSTEM. INTEGRATION SHALL MEAN THAT ALL EXISTING AND NEW SYSTEM POINTS, REGARDLESS WHETHER THEY ARE BAS/DDC SHALL ALL BE CONTROLLED AND/OR ALARMED FROM ONE COMMON GRAPHICAL BASED SOFTWARE PACKAGE RUNNING ON ONE PC WORKSTATION LOCATED IN THE FACILITIES BUILDING. ALL THE SAME SOFTWARE CAPABILITIES AND FUNCTIONALITY PROVIDED WITH THE DDC COMPONENT OF THIS SYSTEM, INCLUDING FULL FEATURED GRAPHICAL CONTROL AND SIMULTANEOUS MULTIPLE DISPLAY DYNAMIC GRAPHING SHALL BE PROVIDED.
7. EACH AIR HANDLING UNIT (AHU), ROOF TOP UNIT (RTU), AND RETURN FAN (RAF) SHALL BE CONTROLLED FROM A NETWORK CONNECTED DDC OR HVAC LOCAL CONTROL PANEL. THE CONTROLLER SHALL HAVE COMPLETE STAND-ALONE CAPABILITIES SHOULD COMMUNICATION OVER THE NETWORK FAIL.
8. FURNISH AND INSTALL NEW EQUIPMENT AS INDICATED ON THE CONTROLS SCHEMATICS. REPLACE ANY INOPERABLE RELIEF/EXHAUST DAMPERS AND/OR OPERATORS FOUND TO BE DEFECTIVE.
9. NEW SMOKE DETECTORS SHALL BE CONNECTED.
10. PROVIDE NEW BACNET CONTROLLERS IN EACH UNIT SCHEDULE OR CONTROL PANEL TO CONTROL EACH UNIT.

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SSR Project #: 17671400

JASPER B. BRIGGS REGISTERED ENGINEER AGRICULTURE No. 114611 STATE OF TENNESSEE
10/08/2019

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

MECHANICAL SCHEDULES

DRAWN BY: DJ
DESIGNED BY: CB
CHECKED BY: DB

PHASE: CD
DATE: 11-08-2019

DRAWING NO: M-0.2

DJ
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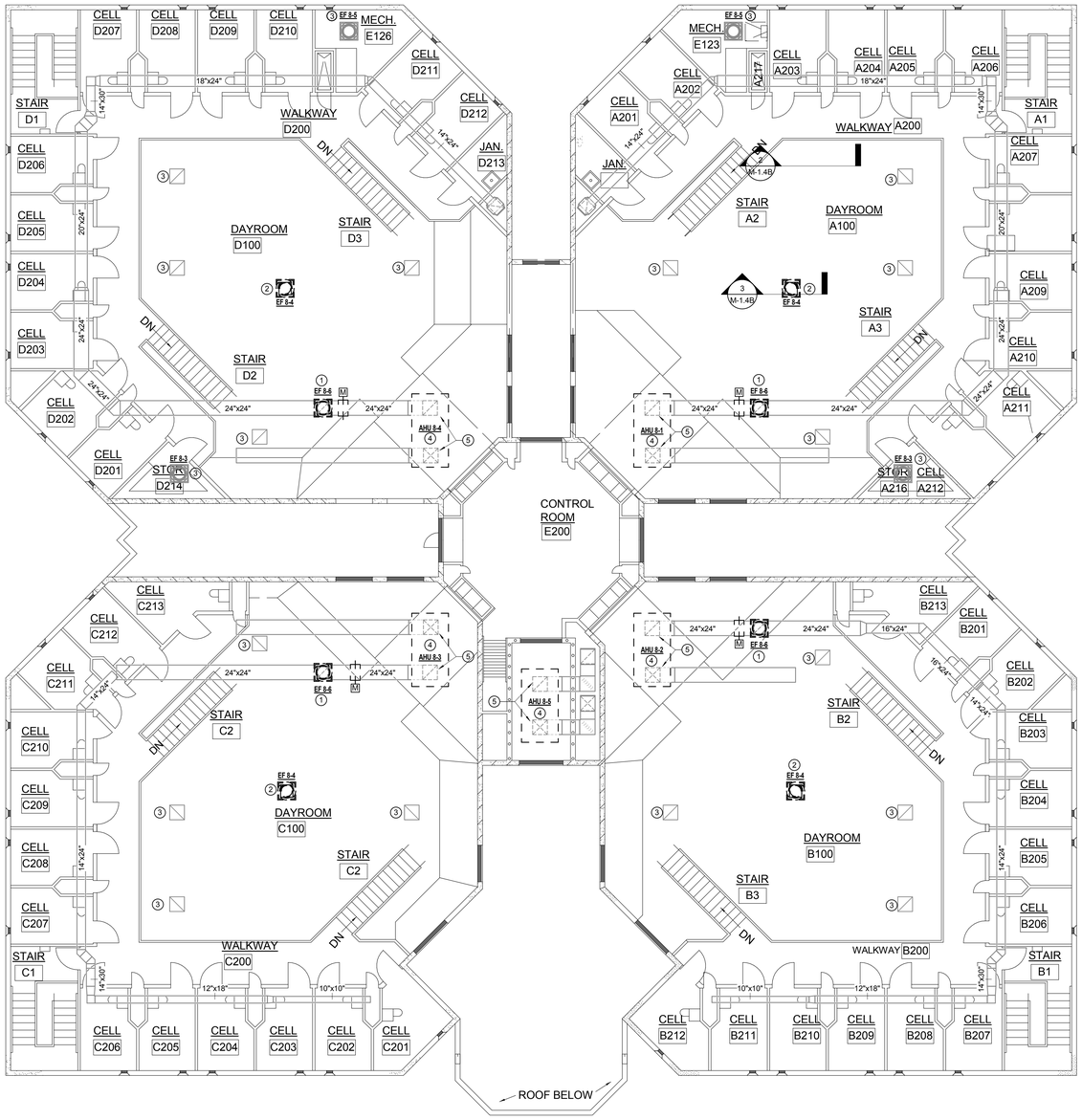


1 HIGH SECURITY HOUSING UNIT 1/2/3/4 -SECOND FLOOR - MECHANICAL DEMOLITION

1/8" = 1'-0"

DEMOLITION LEGEND

SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	DEMO TO THIS POINT

PLAN KEYED NOTES

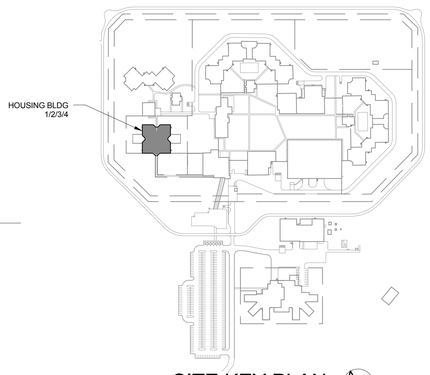
1. REMOVE SMOKE EXHAUST FAN AND RETURN AIR MOTORIZED DAMPER. RECONNECT RETURN DUCT TO AHU AND PATCH DUCT ON ROOF PER CURB CAP DETAIL.
2. DEMO AND REPLACE FAN AND ROOF CURB. CUT ROOF OPENING TO FIT NEW FAN CURB.
3. EXISTING TO REMAIN.
4. EXISTING AHU TO BE DEMOLISHED AND REPLACED. DEMO CONDENSATE DRAIN LINE ROUTED TO ROOF DRAIN.
5. DISCONNECT EXISTING SA AND RA DUCTWORK. DEMO CHILLED WATER AND HOT WATER LINES IN PIPE CABINET. COVER DUCTWORK OPENINGS FOR FUTURE CONNECTION TO NEW AHU.

PLAN GENERAL NOTES

1. SEE SHEET M0.0 FOR GENERAL NOTES AND LEGENDS.

WALL TYPES

- CMU WALL W/ STEEL & CONC. REINF. #4 BARS @ 16" VERT. FLOOR TO DECK. FILL ALL CELLS WITH CONC.
- CMU WALL - FLOOR TO DECK
- CMU 1 HOUR FIRE WALL
- CMU 30 MIN. WALL - FLOOR TO DECK
- CMU TO 4" ABOVE CEILING
- CMU 2 HOUR FIRE WALL
- PRE-CAST WALL PANELS - REINFORCED AS REQUIRED. THICKNESSES AS SHOWN ON FLOOR PLANS.
- 5/8" GYPSUM BOARD EACH FACE OF 3 5/8" METAL STUDS AT 16" O.C. 5/8" TYPE "X" GYPSUM BOARD WHERE INDICATED.
- CMU 4 HOUR WALL
- CMU 2 HOUR FIRE & SMOKE WALL WITH #4 BARS @ 16" VERT. FLOOR TO DECK. FILL ALL CELLS WITH CONC.
- 2 HOUR FIRE & SMOKE PRE-CAST WALL PANELS.
- CMU 1 HR. FIRE & SMOKE WALL #4 BARS @ 16" VERT. FLOOR TO DECK. FILL ALL CELLS WITH CONC.
- CUM 2 HOUR FIRE WALL WITH #4 BARS @ 16" VERT. FLOOR TO DECK. FILL ALL CELLS WITH CONC.



SITE KEY PLAN

NOT TO SCALE

SSR Smith Seckman Reid, Inc.
2650 Thousand Oaks Boulevard, Suite 3200
Memphis, TN 38118
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FAX: (901) 683-3990
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SSR Project #: 17671400

JASPER B. BRICKS REGISTERED ENGINEER AGRICULTURE No. 114611 STATE OF TENNESSEE 11/08/2019

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

HIGH SECURITY HOUSING UNIT 1/2/3/4 -SECOND FLOOR - MECHANICAL DEMOLITION

DRAWN BY:	DJ
DESIGNED BY:	CB
CHECKED BY:	DB
PHASE:	CD
DATE:	11-08-2019

DRAWING NO: MD-1.4B

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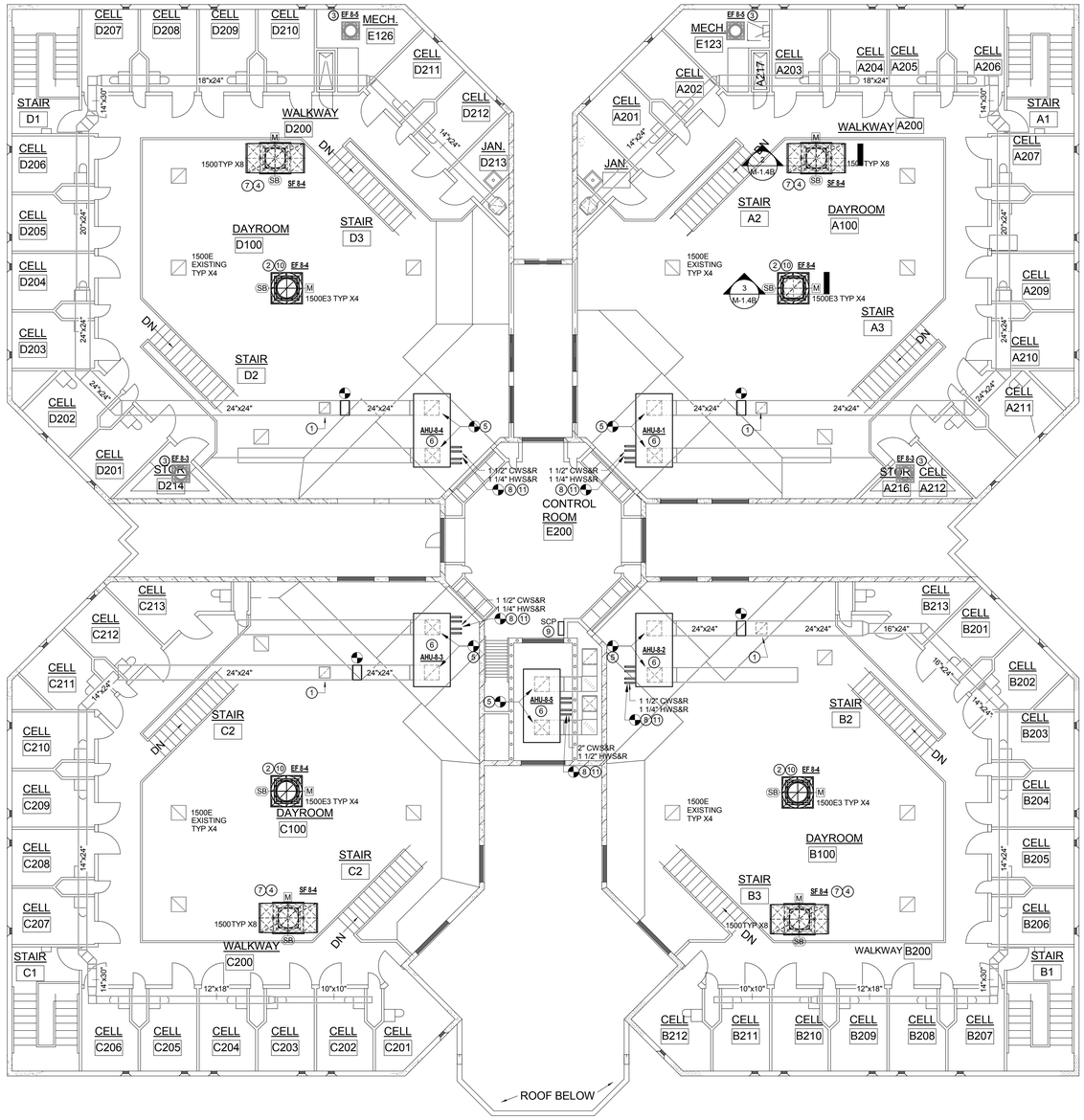


1 HIGH SECURITY HOUSING UNIT 1/2/3/4 - SECOND FLOOR - MECHANICAL

1/8" = 1'-0"

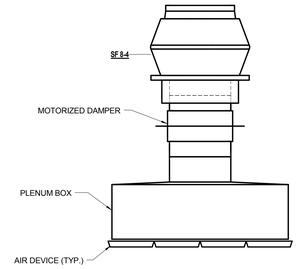
0 4' 8' 16'

PLAN GENERAL NOTES

1. SEE SHEET M0.0 FOR GENERAL NOTES AND LEGENDS.

PLAN KEYED NOTES

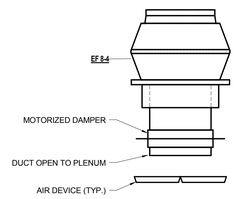
1. CAPPED DUCTWORK ABOVE ROOF.
2. DEMO & REPLACE FAN & ROOF CURB. CUT ROOF OPENING TO FIT NEW FAN CURB. PROVIDE NEW 120V MOTORIZED DAMPER
3. EXISTING TO REMAIN.
4. NEW FAN. CUT ROOF OPENING AND INSTALL ROOF CURB. PROVIDE 120V MOTORIZED DAMPER AND SECURITY BARS.
5. RECONNECT SA AND RA DUCTS TO THE NEW AHU. TRANSITION AS REQUIRED.
6. NEW AHU. REFER TO SCHEDULE SHEET AND DETAILS.
7. SUPPLY FAN DUCTED DOWN TO AIR DIFFUSERS IN CEILING.
8. RECONNECT HW AND CW PIPING TO NEW AHU.
9. NEW SMOKE CONTROL PANEL WITH 120V POWER.
10. EXHAUST FAN OPEN TO PLENUM.
11. PIPE AHU CONDENSATE DRAIN TO NEAREST ROOF DRAIN



2 SECTION AT SF 8-4

3/8" = 1'-0"

NOTE: TYPICAL FOR SF 10-4



3 SECTION AT EF 8-4

3/8" = 1'-0"

NOTE: TYPICAL FOR EF 10-4

WALL TYPES

- CMU WALL W/ STEEL & CONC. REINF. #4 BARS @ 16" VERT. FLOOR TO DECK. FILL ALL CELLS WITH CONC.
- CMU WALL - FLOOR TO DECK
- CMU 1 HOUR FIRE WALL
- CMU 30 MIN. WALL - FLOOR TO DECK
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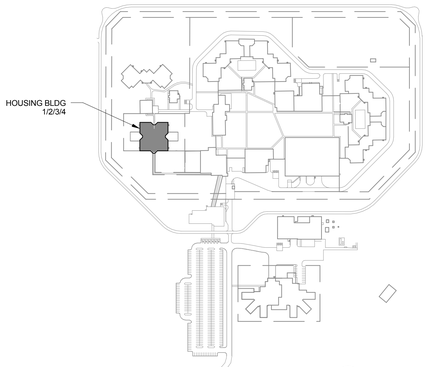

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JASPER B. BRIGGS REGISTERED ENGINEER AGRICULTURE NO. 114611 STATE OF TENNESSEE
10/28/2019

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

HIGH SECURITY HOUSING UNIT 1/2/3/4 - SECOND FLOOR - MECHANICAL

DRAWN BY:	DJ	
DESIGNED BY:	CB	
CHECKED BY:	DB	
PHASE:	CD	DRAWING NO:
DATE:	11-08-2019	M-1.4B

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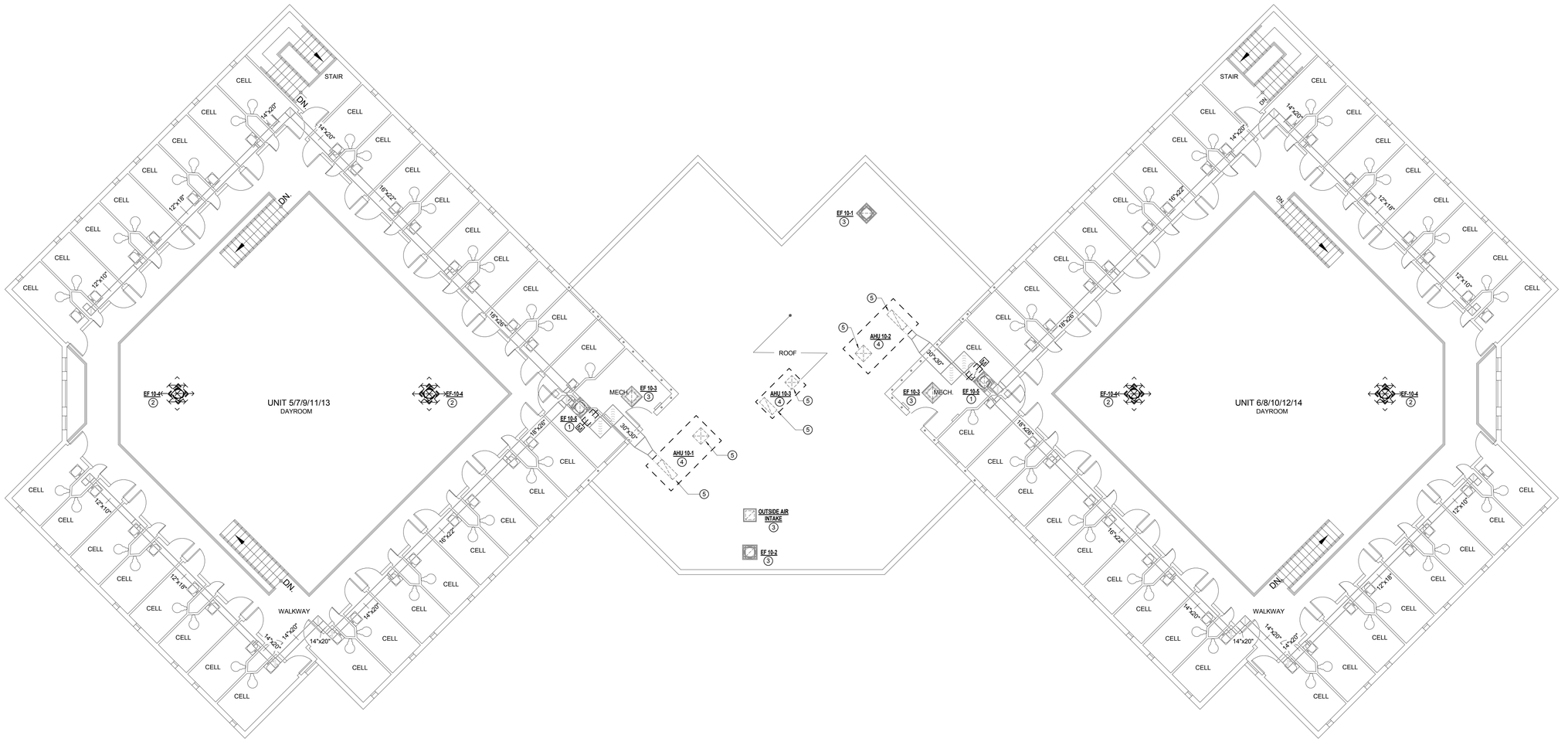

1 MEDIUM SECURITY HOUSING UNIT 5/6, 7/8, 9/10, 11/12, 13/14 - SECOND FLOOR - MECHANICAL DEMOLITION

1/8" = 1'-0"

WALL TYPES

- CMU WALL W/ STEEL & CONC. REINF. #4 BARS @ 16" VERT. FLOOR TO DECK. FILL ALL CELLS WITH CONC.
- CMU WALL - FLOOR TO DECK
- CMU 1 HOUR FIRE WALL
- CMU 30 MIN. WALL - FLOOR TO DECK
- CMU TO 4" ABOVE CEILING
- CMU 2 HOUR FIRE WALL
- PRE-CAST WALL PANELS - REINFORCED AS REQUIRED. THICKNESSES AS SHOWN ON FLOOR PLANS.
- 5/8" GYPSUM BOARD EACH FACE OF 3 5/8" METAL STUDS AT 16" O.C. 5/8" TYPE "X" GYPSUM BOARD WHERE INDICATED.
- CMU 4 HOUR WALL
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- CUM 2 HOUR FIRE WALL WITH #4 BARS @ 16" VERT. FLOOR TO DECK. FILL ALL CELLS WITH CONC.

DEMOLITION LEGEND

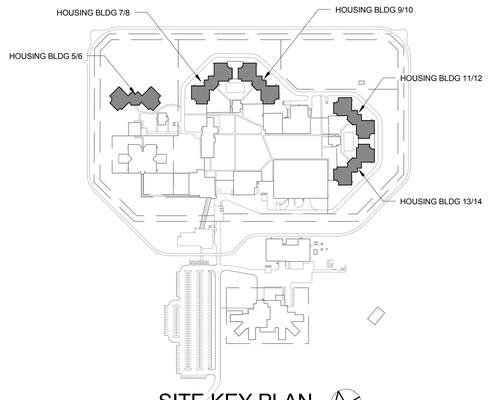
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	DEMO TO THIS POINT

PLAN KEYED NOTES

1. REMOVE SMOKE EXHAUST FAN AND RETURN AIR MOTORIZED DAMPER. RECONNECT RETURN DUCT TO AHU. PATCH DUCT ON ROOF. REFER TO CURB CAP DETAIL.
2. DEMO AND REPLACE FAN AND ROOF CURB. CUT ROOF OPENING TO FIT NEW FAN CURB. DEMO EXHAUST GRILLES.
3. EXISTING TO REMAIN.
4. EXISTING AHU TO BE DEMOLISHED AND REPLACED. DEMO CONDENSATE DRAIN LINE ROUTE TO ROOF DRAIN.
5. DISCONNECT EXISTING SA AND RA DUCTWORK. DEMO CHILLED WATER AND HOT WATER LINES IN PIPE CABINET. COVER DUCTWORK OPENINGS FOR FUTURE CONNECTION TO NEW AHU.

PLAN GENERAL NOTES

1. SEE SHEET M0.0 FOR GENERAL NOTES AND LEGENDS.



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No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

MEDIUM SECURITY HOUSING UNIT 5/6, 7/8, 9/10, 11/12, 13/14 - SECOND FLOOR - MECHANICAL DEMOLITION

DRAWN BY:	DJ
DESIGNED BY:	CB
CHECKED BY:	DB
PHASE:	CD
DATE:	11-08-2019

DRAWING NO: MD-1.5B

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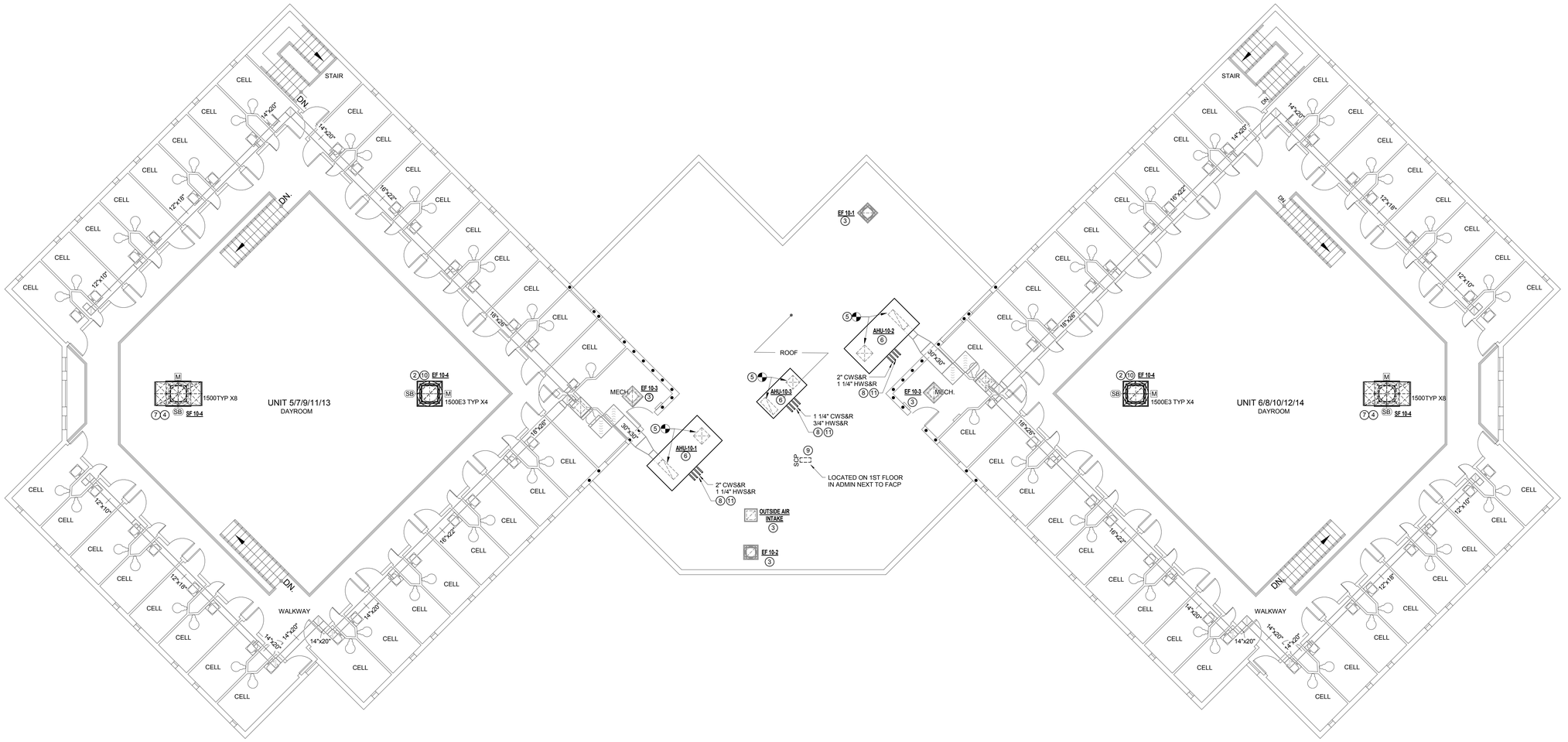

1 MEDIUM SECURITY HOUSING UNIT 5/6, 7/8, 9/10, 11/12, 13/14 - SECOND FLOOR - MECHANICAL

1/8" = 1'-0"

0 4' 8' 16'

A B&C D E

PLAN KEYED NOTES

1. CAPPED DUCTWORK ABOVE ROOF.
2. DEMO & REPLACE FAN & ROOF CURB. CUT ROOF OPENING TO FIT NEW FAN CURB. PROVIDE NEW 120V MOTORIZED DAMPER
3. EXISTING TO REMAIN.
4. NEW FAN. CUT ROOF OPENING AND INSTALL ROOF CURB. PROVIDE 120V MOTORIZED DAMPER AND SECURITY BARS.
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7. SUPPLY FAN DUCTED DOWN TO AIR DIFFUSERS IN CEILING.
8. RECONNECT HW AND CW PIPING TO NEW AHU.
9. NEW SMOKE CONTROL PANEL WITH 120V POWER.
10. EXHAUST FAN OPEN TO PLENUM.
11. PIPE AHU CONDENSATE DRAIN TO NEAREST ROOF DRAIN

PLAN GENERAL NOTES

1. SEE SHEET M0.0 FOR GENERAL NOTES AND LEGENDS.

WALL TYPES

- CMU WALL W/ STEEL & CONC. REINF. #4 BARS @ 16" VERT. FLOOR TO DECK. FILL ALL CELLS WITH CONC.
- CMU WALL - FLOOR TO DECK
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- CMU 30 MIN. WALL - FLOOR TO DECK
- CMU TO 4" ABOVE CEILING
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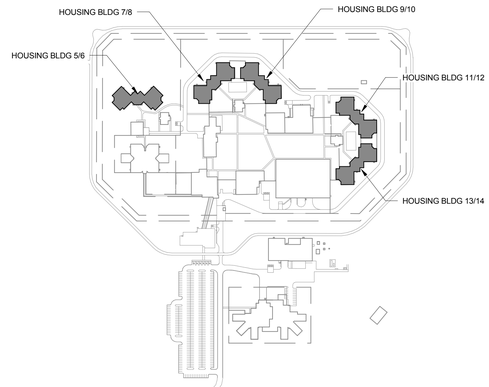

SITE KEY PLAN

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JASPER B. BRICKS
REGISTERED ENGINEER
AGRICULTURE
No. 114611
STATE OF TENNESSEE
10/28/2019

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

MEDIUM SECURITY HOUSING UNIT 5/6, 7/8, 9/10, 11/12, 13/14 - SECOND FLOOR - MECHANICAL

DRAWN BY:	DJ	
DESIGNED BY:	CB	
CHECKED BY:	DB	
PHASE:	CD	DRAWING NO:
DATE:	11-08-2019	M-1.5B

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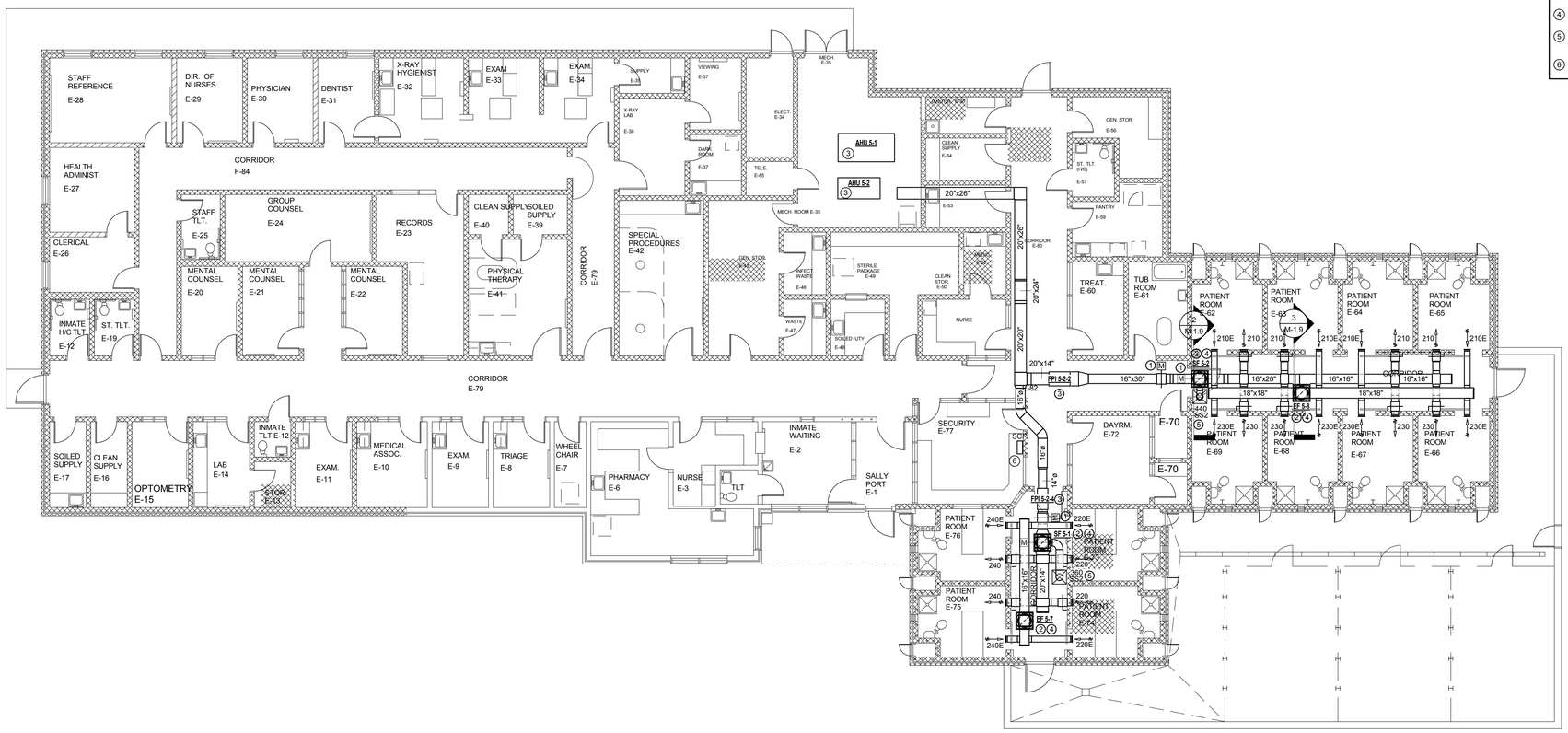
PLAN GENERAL NOTES

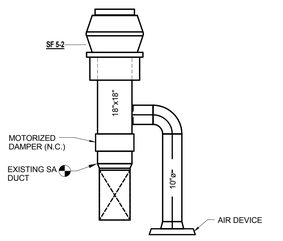
1. SEE SHEET M0.0 FOR GENERAL NOTES AND LEGENDS.

PLAN KEYED NOTES

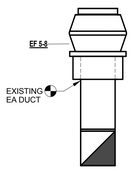
1. PROVIDE 120V MOTORIZED DAMPER.
2. DEMO & REPLACE FAN & ROOF CURB. CUT ROOF OPENING TO FIT NEW FAN CURB.
3. EXISTING TO REMAIN.
4. PROVIDE NEW MOTORIZED 120V DAMPER AND SECURITY BARS.
5. DUCT SMOKE CONTROL FAN DOWN TO AIR DIFFUSERS IN CLG.
6. NEW SMOKE CONTROL PANEL PROVIDE WITH 120V POWER.



1 HEALTH SERVICES BUILDING - MECHANICAL
1/8" = 1'-0"



2 SECTION AT SF 5-2
3/8" = 1'-0"



3 SECTION AT EF 5-8
3/8" = 1'-0"

WALL TYPES

- CMU WALL W/ STEEL & CONC. REINF. #4 BARS @ 16" VERT. FLOOR TO DECK. FILL ALL CELLS WITH CONC.
- CMU WALL - FLOOR TO DECK
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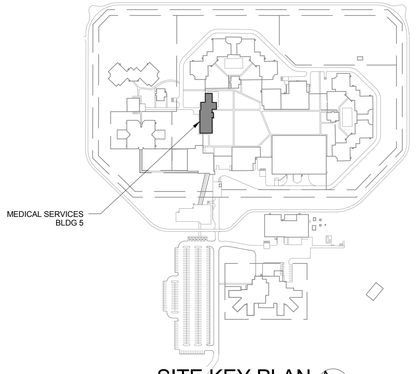

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SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

HEALTH SERVICES BUILDING - MECHANICAL

DRAWN BY:	DJ		
DESIGNED BY:	CB		
CHECKED BY:	DB		
PHASE:	CD	DRAWING NO:	M-1.9
DATE:	11-08-2019		

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N.T.S.

1. WALL ASSEMBLY - MIN 4-7/8 IN., 6-1/8 IN., 7-3/8 IN. AND 8-5/8 IN. THICK NORMAL WEIGHT OR LIGHTWEIGHT (100 -150 PCF) CONCRETE FOR 1, 2, 3, AND 4 HR RATED ASSEMBLIES, RESPECTIVELY. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX. DIAM OF OPENING IS 14-1/8 IN.

SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

2. THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT, TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN 0 IN. TO MAX 1-3/8 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED.

A. STEEL PIPE - THE FOLLOWING TYPES AND SIZES OF STEEL PIPES MAY BE USED:

1A. NOM 4 IN. DIAM (OR SMALLER) SCHEDULE 7 (OR HEAVIER) STEEL PIPE.

2A. NOM 8 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER)STEEL PIPE.

3A. NOM 10 IN. DIAM (OR SMALLER) SCHEDULE 20 (OR HEAVIER) STEEL PIPE.

WHEN STEEL PIPE IS USED, T RATING IS 1/4 HR FOR NOM 4 IN. DIAM (OR SMALLER) AND 0 HR FOR STEEL PIPES GREATER THAN NOM 4 IN. DIAM.

B. IRON PIPE - NOM 4 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE. WHEN IRON PIPE IS USED T RATING IS 1/4 HR

C. CONDUIT - NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC (EMT) OR STEEL CONDUIT. WHEN EMT OR STEEL CONDUIT IS USED T RATING IS 1#4 HR.

D. COPPER TUBING - NOM 4 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING. WHEN COPPER TUBE IS USED T RATING IS 0 HR.

E. COPPER PIPE - NOM 4 IN DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE. WHEN COPPER PIPE IS USED T RATING IS 0 HR.

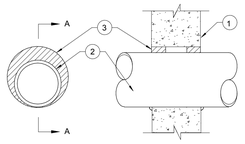
3. FILL, VOID OR CAVITY MATERIAL* - SEALANT -MIN 5/8 IN. AND 1-1/2 IN. THICKNESS OF FILL MATERIAL FOR 1 AND 2 HR RATED ASSEMBLIES, RESPECTIVELY APPLIED WITHIN THE ANNULUS, FLUSF WITH BOTH SURFACES OF WALL. AT POINT CONTACT LOCATION BETWEEN PENETRATE AND PERPHERY OF OPENING, A MIN 1/2 IN. DIAM BEAD OF FILL MATERIAL SHALL BE INSTALLED AT THE CONCRETE/PENETRATE INTERFACE ON BOTH SURFACES OF WALL.

PASSIVE FIRE PROTECTION PARTNERS - 3600EX, 4100NS, 4800DW
*BEARING THE UL CLASSIFICATION MARK

SYSTEM NO. W-J-1040

F RATINGS - 1, 2, 3 AND 4 HR (SEE ITEM 1)

T RATING - 0 AND 1/4 Hr (SEE ITEM 2)



SECTION A-A

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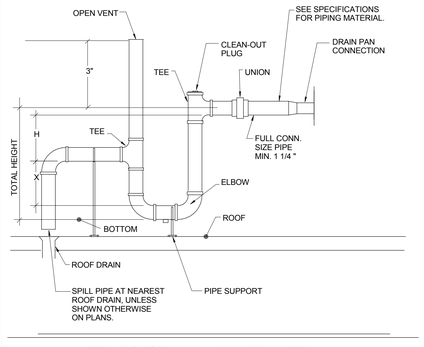
14M107

01 METAL PIPE THROUGH 1-HR, OR 2-HR, CONCRETE WALL ASSEMBLY

N.T.S.

NOTE:

ELEVATE A/C UNIT SUFFICIENT DISTANCE ABOVE FLOOR OR ROOF TO ALLOW FOR INSTALLATION OF TRAP WITH ADEQUATE DIMENSIONS TO WITHSTAND SYSTEM OPERATING PRESSURE. COORDINATE WITH DETAIL FOR A UNIT MOUNTING.



TOTAL HEIGHT OF TRAP= X+H+ (1 1/2 x PIPE DIAMETER)

FOR DRAW THRU UNITS	FOR BLOW THRU UNITS
X= MIN. 1/2 H (PREFERRED X=H)	X= FAN STATIC PRESSURE +1"
H= NEGATIVE STATIC PRESSURE +1"	H= MIN. 1"

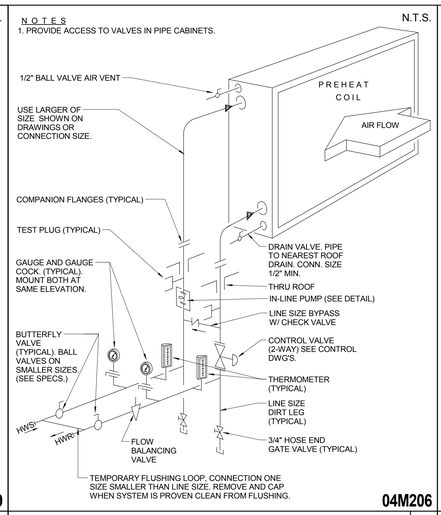
04M109

02 COOLING COIL CONDENSATE DRAIN

N.T.S.

NOTES

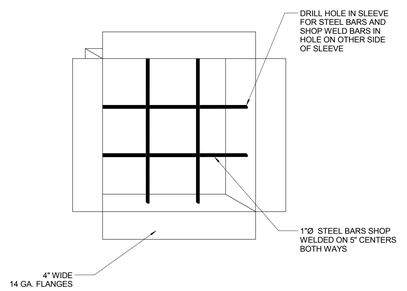
1. PROVIDE ACCESS TO VALVES IN PIPE CABINETS.



04M206

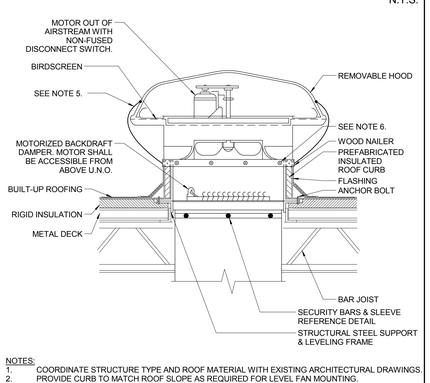
03 HOT WATER PIPING AT PREHEAT COIL

N.T.S.



04 SECURITY BARS FOR FAN ROOF OPENINGS

N.T.S.

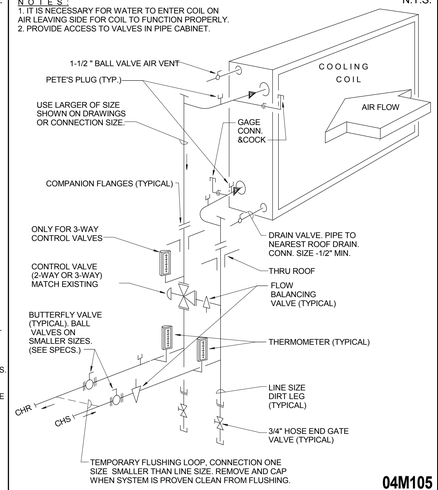


NOTES:
1. COORDINATE STRUCTURE TYPE AND ROOF MATERIAL WITH EXISTING ARCHITECTURAL DRAWINGS.
2. PROVIDE CURB TO MATCH ROOF SLOPE AS REQUIRED FOR LEVEL FAN MOUNTING.
3. ROUTE POWER CONDUIT INSIDE CORNER OF ROOF CURB CLEAR OF DAMPER.
4. BELT DRIVEN PROPELLER EXHAUSTER SHOWN. DETAIL IS SIMILAR FOR CENTRIFUGAL, BELT DRIVE & DIRECT DRIVE EXHAUSTER. DETAIL ALSO APPLIES TO UPBLAST ROOF EXHAUSTERS. (PROVIDE VENTED CURB PER MFPA 96). PROVIDE TIE-DOWN STRAPS FROM HOUSING TO CURB FOR ANCHORING AGAINST 110 MPH WINDS, IMPORTANCE FACTOR OF 1.15 AND A.C EXPOSURE.
5. SECURE FAN TO CURB WITH STAINLESS STEEL SCREWS AT 6" ON CENTER (MINIMUM 3 PER SIDE), ALL SIDES.

05 CORRECTIONAL ROOF EXHAUST MOUNTING

N.T.S.

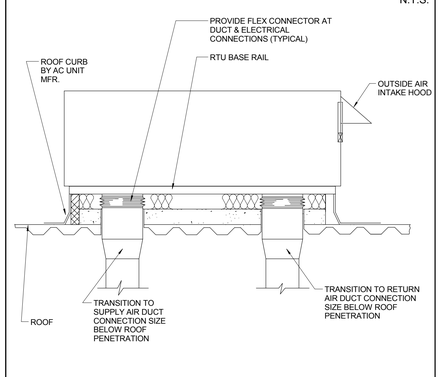
NOTES:
1. IT IS NECESSARY FOR WATER TO ENTER COIL ON AIR LEAVING SIDE FOR COIL TO FUNCTION PROPERLY.
2. PROVIDE ACCESS TO VALVES IN PIPE CABINET.



04M105

07 CHILLED WATER PIPING AT ROOF TOP A/C UNIT

N.T.S.



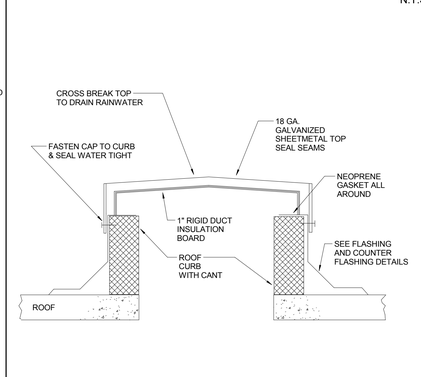
NOTE:
PIPE CONDENSATE FROM UNIT USING CONNECTION SIZE (1-1/4" MIN.) TO NEAREST ROOF DRAIN. PROVIDE "P" TRAP AT UNIT. SEE MOISTURE CONDENSATE DRAIN DETAIL.

EXISTING DUCT MOUNTED SECURITY BARS TO REMAIN AT ROOF PENETRATION.

09M101

08 ROOFTOP A/C UNIT

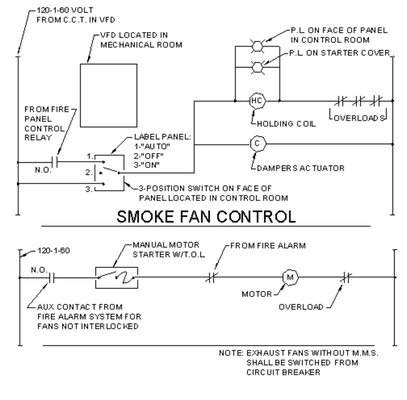
N.T.S.



09M307

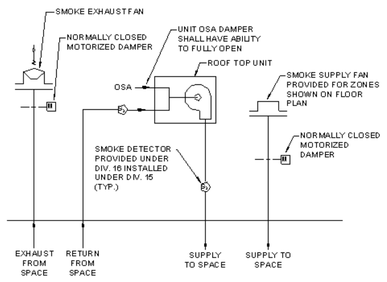
09 ROOF CURB CAP

N.T.S.



11 TYPICAL FAN CONTROL

N.T.S.



ALL SMOKE CONTROL DAMPERS SHALL BE U.L. 555S RATED SMOKE DAMPERS. NORMALLY CLOSED DAMPER SHALL OPEN DURING A SMOKE EVENT. NORMALLY OPEN DAMPERS SHALL CLOSE DURING SMOKE EVENT.

12 SMOKE SYSTEM DIAGRAM

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SSR Project #: 17671400

JASPER B. BRICKEY — REGISTERED ENGINEER — AGRICULTURE — No. 114611 — STATE OF TENNESSEE
11/08/2019

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

MECHANICAL DETAILS

DRAWN BY:	DJ	
DESIGNED BY:	CB	
CHECKED BY:	DB	
PHASE:	CD	DRAWING NO: M-5.1
DATE:	11-08-2019	

DJ
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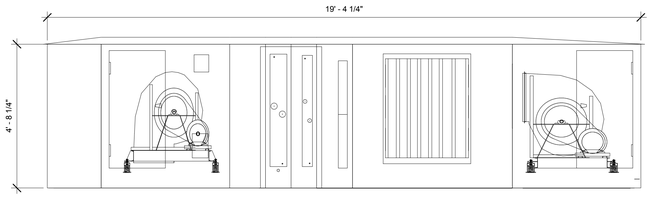
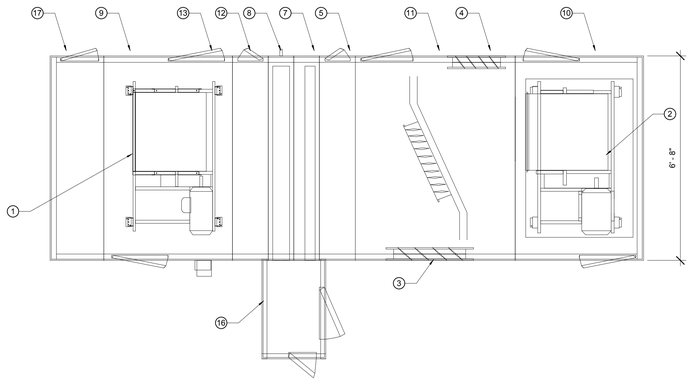
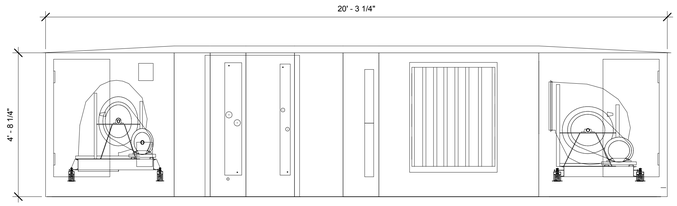


1 AHU 8-1,2,3,4 - COMPONENT LAYOUT ELEVATION
NOT TO SCALE



2 AHU 8-1,2,3,4 - COMPONENT LAYOUT PLAN VIEW
NOT TO SCALE



5 AHU 10-1,2 - COMPONENT LAYOUT ELEVATION
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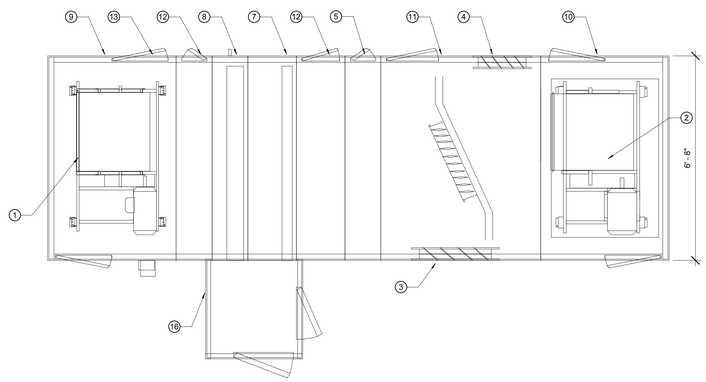
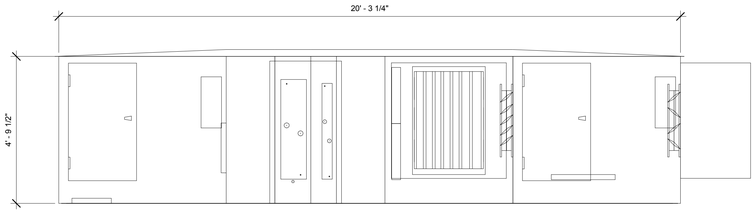


6 AHU 10-1,2 - COMPONENT LAYOUT PLAN VIEW
NOT TO SCALE



3 AHU 8-5 - COMPONENT LAYOUT ELEVATION
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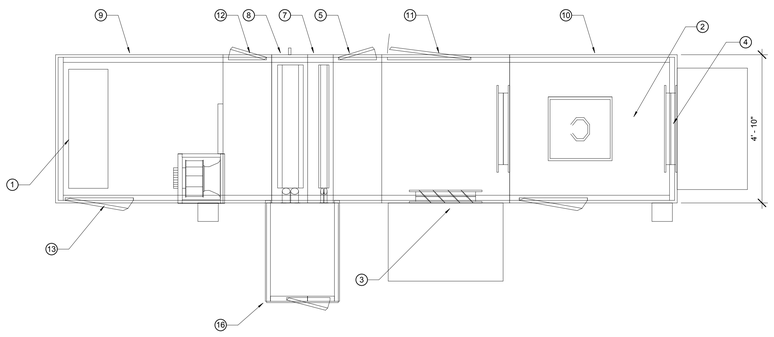
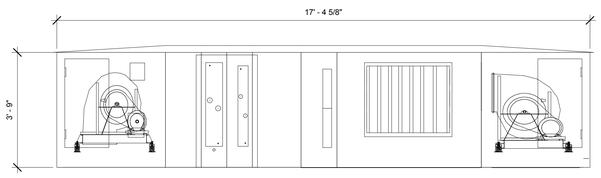
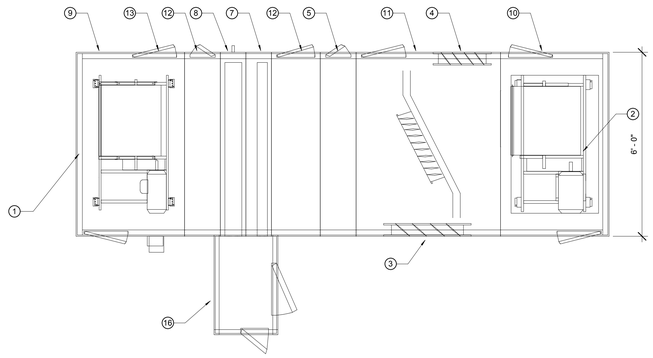


4 AHU 8-5 - COMPONENT LAYOUT PLAN VIEW
NOT TO SCALE



7 AHU 10-3 - COMPONENT LAYOUT ELEVATION
NOT TO SCALE



8 AHU 10-3 - COMPONENT LAYOUT PLAN VIEW
NOT TO SCALE

PLAN GENERAL NOTES

1. FIELD VERIFY AIR HANDLING UNIT DIMENSION.

KEYED NOTES

1. SUPPLY AIR
2. RETURN AIR
3. OUTSIDE AIR
4. RELIEF AIR
5. PREFILTER
6. FINAL FILTER
7. PRHEAT COIL
8. COOLING COIL
9. SUPPLY FAN SECTION
10. RETURN FAN SECTION
11. ECONIMIZER SECTION
12. ACCESS SECTION
13. ACCESS DOOR, TYPICAL
14. CONDENSATE DRAIN CONNECTION
15. STARTER/DISCONNECT
16. PIPE CABINET
17. CONTROLS CABINET

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SSR Project #: 17671400

JASPER B. BRIGGS REGISTERED ENGINEER AGRICULTURE No. 114611 STATE OF TENNESSEE
10/29/2019

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

MECHANICAL DETAILS

DRAWN BY:	CK	
DESIGNED BY:	CK	
CHECKED BY:	CB	
PHASE:	CD	DRAWING NO:
DATE:	11-08-2019	M-5.2

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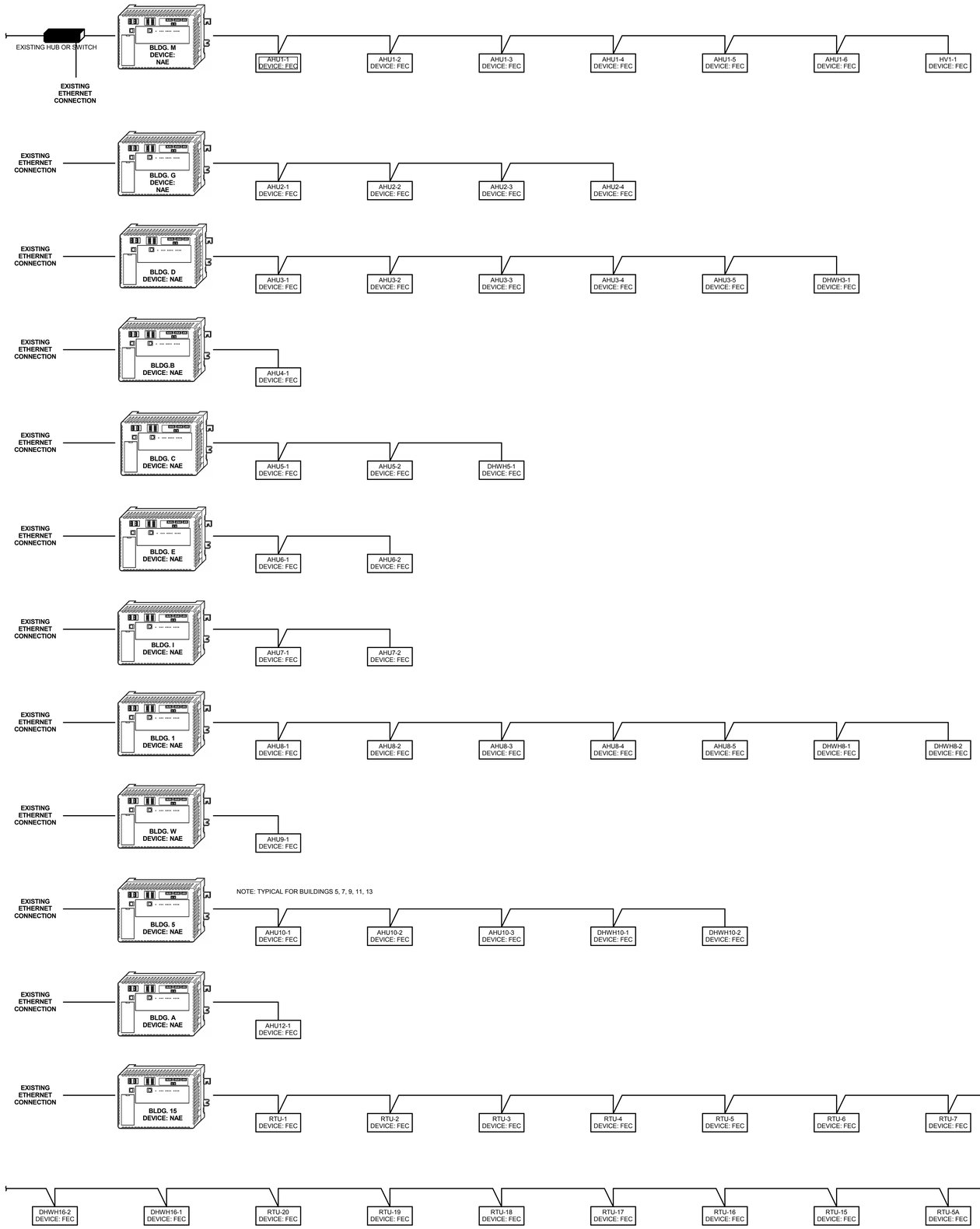

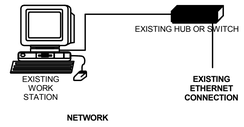

1 CONTROL RISER DIAGRAM

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JASPER B. BRICKS REGISTERED ENGINEER No. 114611 STATE OF TENNESSEE AGRICULTURE
10/28/2019

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

MECHANICAL CONTROLS RISER DIAGRAM

DRAWN BY:	CK	
DESIGNED BY:	CK	
CHECKED BY:	CB	
PHASE:	CD	DRAWING NO:
DATE:	11-08-2019	M-6.1

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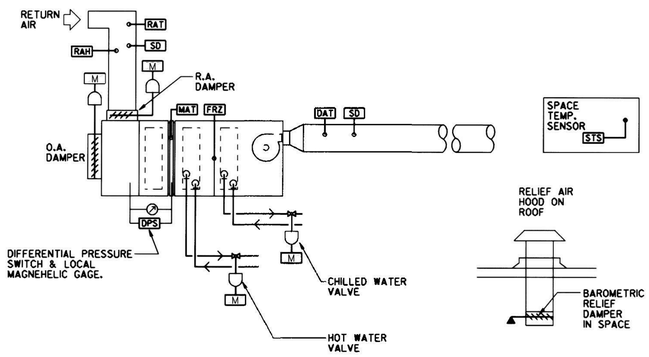


AIR HANDLING UNIT 7-2, 1-1 THRU 1-6

1. AIR HANDLING UNIT SUPPLY FAN MAY BE STARTED MANUALLY OR AUTOMATICALLY BY THE DDC PROGRAM RELAY.

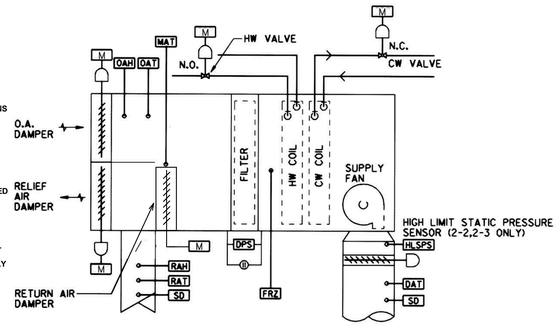
2. UPON STARTING OF THE SUPPLY FAN, OUTSIDE AIR DAMPER OPENS TO ITS MINIMUM POSITION.

3. THE CHILL WATER AND HOT WATER VALVES ARE SEQUENCED TO MAINTAIN SPACE TEMPERATURES BETWEEN 68° F AND 78° F IN RESPONSE TO SPACE TEMPERATURE SENSOR.

4. AS OUTSIDE AIR TEMPERATURE DROPS AND THE ENTHALPY BECOMES LESS THAN THAT OF THE RETURN AIR TEMPERATURE, THE OUTSIDE AIR DAMPER AND THE RETURN AIR DAMPER ARE SEQUENCED TO PROVIDE "FREE" COOLING. AS SPACE TEMPERATURES ARE SATISFIED, THE OUTSIDE AIR DAMPER IS RETURNED TO ITS MINIMUM POSITION.

5. UPON DETECTION OF SMOKE BY THE DUCT MOUNTED SMOKE DETECTORS, A RELAY WILL DE-ENERGIZE AHU FANS AND CONTROLS.

6. IN "NORMAL" OPERATION, FREEZESTAT WILL DE-ENERGIZE SUPPLY FAN AND ITS RESPECTIVE SYSTEM CONTROL IF IT SENSES MIXED AIR ENTERING COIL LESS THAN 40° F.



AIR HANDLING UNIT 2-1, 2-2, 2-3, AND 2-4

1. AIR HANDLING UNIT SUPPLY FAN MAY BE STARTED MANUALLY OR AUTOMATICALLY BY THE DDC PROGRAM RELAY.

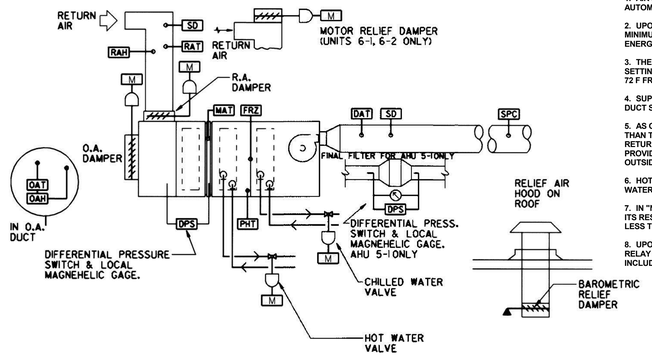
2. UPON STARTING OF THE SUPPLY FAN, OUTSIDE AIR DAMPER OPENS TO ITS MINIMUM POSITION.

3. THE CHILL WATER AND HOT WATER VALVES ARE SEQUENCED TO MAINTAIN SPACE TEMPERATURES BETWEEN 68° F AND 78° F IN RESPONSE TO SPACE TEMPERATURES.

4. AS OUTSIDE AIR TEMPERATURE DROPS AND THE ENTHALPY BECOMES LESS THAN THAT OF THE RETURN AIR TEMPERATURE, THE OUTSIDE AIR DAMPER AND THE RETURN AIR DAMPER ARE SEQUENCED TO PROVIDE "FREE" COOLING. AS SPACE TEMPERATURES ARE SATISFIED, THE OUTSIDE AIR DAMPER IS RETURNED TO ITS MINIMUM POSITION. DURING ECONOMIZER MODE, MODULATE RETURN, RELIEF, AND OSA DAMPER TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT.

5. UPON DETECTION OF SMOKE BY THE DUCT MOUNTED SMOKE DETECTORS, A RELAY WILL DE-ENERGIZE AHU FANS AND CONTROLS.

6. IN "NORMAL" OPERATION, FREEZESTAT WILL DE-ENERGIZE SUPPLY FAN AND ITS RESPECTIVE SYSTEM CONTROL IF IT SENSES MIXED AIR ENTERING COIL LESS THAN 40° F.



AIR HANDLING UNIT 3-1, 3-2, 3-3, 5-1, 6-1, AND 6-2

1. AIR HANDLING UNIT SUPPLY FAN MAY BE STARTED MANUALLY OR AUTOMATICALLY BY THE DDC PROGRAM RELAY.

2. UPON STARTING OF THE SUPPLY FAN, OUTSIDE AIR DAMPER OPENS TO ITS MINIMUM POSITION. EXHAUST FANS SERVING THE SAME ZONE AS AHU ARE ENERGIZED THROUGH INTERLOCK WITH AHU SUPPLY FAN.

3. THE CHILL WATER IS SEQUENCED TO MAINTAIN DISCHARGE TEMPERATURE SETTING OF 55 F. AHU 3-3 SEQUENCES TO MAINTAIN ROOM TEMPERATURE AT 72 F FROM WALL THERMOSTAT.

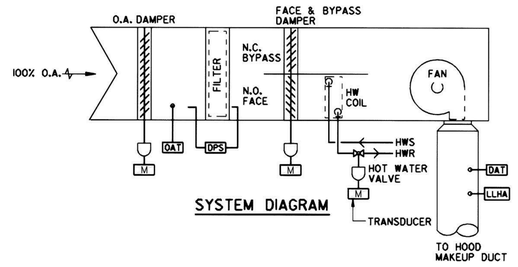
4. SUPPLY FAN IS MODULATED BY VARIABLE FREQUENCY DRIVE TO MAINTAIN DUCT STATIC PRESSURE CONTROLLER SETTING.

5. AS OUTSIDE AIR TEMPERATURE DROPS AND THE ENTHALPY BECOMES LESS THAN THAT OF THE RETURN AIR TEMPERATURE, THE OUTSIDE AIR DAMPER, THE RETURN AIR DAMPER, AND THE RELIEF AIR DAMPER ARE SEQUENCED TO PROVIDE "FREE" COOLING. AS DISCHARGE AIR CONTROLLER IS SATISFIED, THE OUTSIDE AIR DAMPER IS RETURNED TO ITS MINIMUM POSITION.

6. HOT WATER PREHEAT COIL MAINTAINS TEMPERATURE ENTERING THE CHILL WATER COIL AT MINIMUM OF 55° F.

7. IN "NORMAL" OPERATION, FREEZESTAT WILL DE-ENERGIZE SUPPLY FAN AND ITS RESPECTIVE SYSTEM CONTROL IF IT SENSES MIXED AIR ENTERING COIL LESS THAN 40° F.

8. UPON DETECTION OF SMOKE BY THE DUCT MOUNTED SMOKE DETECTORS, A RELAY IN THE SUPPLY FAN WILL DE-ENERGIZE AHU FANS AND CONTROLS, INCLUDING EXHAUST FANS THAT ARE INTERLOCKED WITH THE AHU.



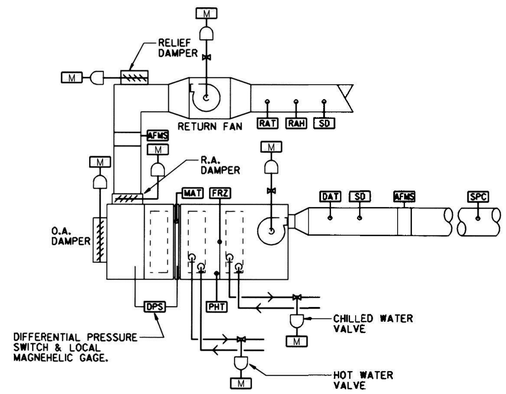
SYSTEM DIAGRAM

1. THE UNIT WILL START UPON MANUAL ACTIVATION OF HOOD SWITCH AND THE OUTSIDE AIR DAMPER WILL OPEN, PROVIDED THE FIRE ALARM RELAY IS CLOSED AND NOT IN ALARM MODE.

2. THE FACE AND BYPASS DAMPERS WILL MODULATE TO MAINTAIN A DISCHARGE AIR TEMPERATURE OF 60° F (ADJUSTABLE). THE HOT WATER COIL NORMALLY OPEN CONTROL VALVE SHALL CLOSE WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE 65° F.

3. ON A SIGNAL FROM THE FIRE ALARM SYSTEM HSF 3-1 SHALL BE SHUT DOWN.

AIR HANDLING UNIT 3-4, 3-5, AND HV 1-1



AIR HANDLING UNIT 4-1

1. AIR HANDLING UNIT SUPPLY FAN MAY BE STARTED MANUALLY OR AUTOMATICALLY BY THE DDC PROGRAM RELAY.

2. UPON STARTING OF THE SUPPLY FAN, RETURN FAN IS ENERGIZED THROUGH INTERLOCKING CONTACT IN THE SUPPLY FAN CIRCUIT; EP AIR IS PASSED TO THE CONTROL COMPONENTS AND OUTSIDE AIR DAMPER OPENS TO ITS MINIMUM POSITION; EXHAUST FANS SERVING THE SAME ZONE AS AHU ARE ENERGIZED THROUGH INTERLOCK WITH AHU SUPPLY FAN.

3. THE CHILL WATER IS SEQUENCED TO MAINTAIN DISCHARGE TEMPERATURE SETTING OF 55 F.

4. SUPPLY AND RETURN/RELIEF FANS ARE MODULATED BY VFD TO MAINTAIN DUCT STATIC PRESSURE CONTROLLER SETTING. SEE NOTE #9.

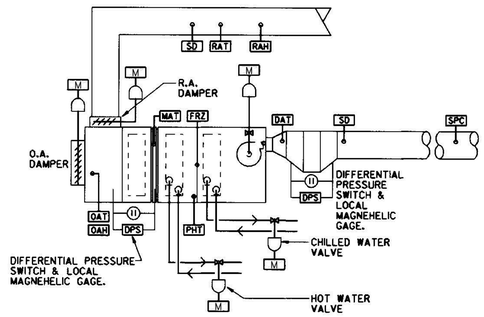
5. AS OUTSIDE AIR TEMPERATURE DROPS AND THE ENTHALPY BECOMES LESS THAN THAT OF THE RETURN AIR TEMPERATURE, THE OUTSIDE AIR DAMPER, THE RETURN AIR DAMPER, AND THE RELIEF AIR DAMPER ARE SEQUENCED TO PROVIDE "FREE" COOLING. AS DISCHARGE AIR CONTROLLER IS SATISFIED, THE OUTSIDE AIR DAMPER IS RETURNED TO ITS MINIMUM POSITION.

6. HOT WATER PREHEAT COIL MAINTAINS TEMPERATURE ENTERING THE CHILL WATER COIL AT MINIMUM OF 55° F.

7. IN "NORMAL" OPERATION, FREEZESTAT WILL DE-ENERGIZE SUPPLY FAN AND ITS RESPECTIVE SYSTEM CONTROL IF IT SENSES MIXED AIR ENTERING COIL LESS THAN 40° F.

8. UPON DETECTION OF SMOKE BY THE DUCT MOUNTED SMOKE DETECTORS, A RELAY IN THE SUPPLY FAN WILL DE-ENERGIZE AHU FANS AND CONTROLS, INCLUDING EXHAUST FANS SERVING THAT ZONE.

9. AIRFLOW MEASURING STATIONS IN THE SUPPLY AND RETURN AIR DUCTS (OR FAN INLETS) SHALL PROVIDE A SIGNAL TO THE CONTROL SYSTEM WHICH SHALL THEN MODULATE THE RETURN FAN TO MATCH THE SUPPLY FAN. THE RETURN FAN VOLUME SHALL EQUAL THE SUPPLY VOLUME MINUS THE EXHAUST VOLUME OR AS OTHERWISE PROGRAMMED.



AIR HANDLING UNIT 5-2

1. AIR HANDLING UNIT SUPPLY FAN MAY BE STARTED MANUALLY OR AUTOMATICALLY BY THE DDC PROGRAM RELAY.

2. UPON STARTING OF THE SUPPLY FAN, OUTSIDE AIR DAMPER OPENS TO ITS MINIMUM POSITION.

3. THE CHILL WATER AND HOT WATER VALVES ARE SEQUENCED TO MAINTAIN SPACE TEMPERATURES BETWEEN 68° F AND 78° F IN RESPONSE TO SPACE TEMPERATURES.

4. AS OUTSIDE AIR TEMPERATURE DROPS AND THE ENTHALPY BECOMES LESS THAN THAT OF THE RETURN AIR TEMPERATURE, THE OUTSIDE AIR DAMPER AND THE RETURN AIR DAMPER ARE SEQUENCED TO PROVIDE "FREE" COOLING. AS SPACE TEMPERATURES ARE SATISFIED, THE OUTSIDE AIR DAMPER IS RETURNED TO ITS MINIMUM POSITION.

5. HOT WATER PREHEAT COIL MAINTAINS TEMPERATURE ENTERING THE CHILL WATER COIL AT MINIMUM OF 55° F.

6. UPON A SIGNAL FROM THE FIRE ALARM SYSTEM OF SMOKE DETECTION IN THE ZONE, THE UNIT SHALL SHUT DOWN. REFER TO SMOKE MANAGEMENT OPERATION MATRIX.

7. IN "NORMAL" OPERATION, FREEZESTAT WILL DE-ENERGIZE SUPPLY FAN AND ITS RESPECTIVE SYSTEM CONTROL IF IT SENSES MIXED AIR ENTERING COIL LESS THAN 40° F.

8. AHU 5-2 SUPPLY FAN IS MODULATED BY VFD TO MAINTAIN DUCT STATIC PRESSURE CONTROLLER SETTING.

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11/08/2019

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

MECHANICAL CONTROLS SCHEMATICS

DRAWN BY:	CK	
DESIGNED BY:	CK	
CHECKED BY:	CB	
PHASE:	CD	DRAWING NO:
DATE:	11-08-2019	M-6.2

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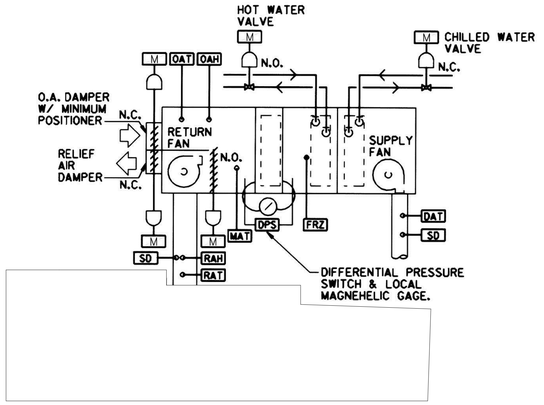


1. AIR HANDLING UNIT SUPPLY FAN MAY BE STARTED MANUALLY OR AUTOMATICALLY BY THE DDC PROGRAM RELAY. RETURN FAN MAY BE STARTED MANUALLY OR BY INTERLOCK WITH SUPPLY FAN.

2. UPON STARTING OF THE SUPPLY FAN, OUTSIDE AIR DAMPER OPENS TO ITS MINIMUM POSITION.

3. THE CHILL WATER AND HOT WATER VALVES ARE SEQUENCED TO MAINTAIN SPACE TEMPERATURES BETWEEN 68° F AND 78° F IN RESPONSE TO RETURN AIR TEMPERATURE.

4. AS OUTSIDE AIR TEMPERATURE DROPS AND THE ENTHALPY BECOMES LESS THAN THAT OF THE RETURN AIR TEMPERATURE, THE OUTSIDE AIR DAMPER, THE RETURN AIR DAMPER, AND THE RELIEF AIR DAMPER ARE SEQUENCED TO PROVIDE "FREE" COOLING. AS DISCHARGE AIR CONTROLLER IS SATISFIED, THE OUTSIDE AIR DAMPER IS RETURNED TO ITS MINIMUM POSITION.

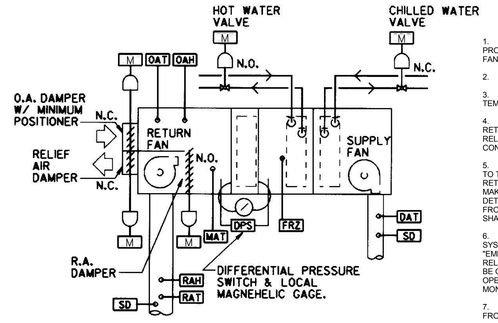
5. UPON A SIGNAL FROM THE FIRE ALARM SYSTEM OF SMOKE DETECTION IN THE ZONE, THE UNIT SHALL SHUT DOWN. REFER TO SMOKE MANAGEMENT OPERATION MATRIX.

6. IN "NORMAL" OPERATION, FREEZESTAT WILL DE-ENERGIZE SUPPLY FAN AND ITS RESPECTIVE SYSTEM CONTROL IF IT SENSES MIXED AIR ENTERING COIL LESS THAN 40° F. HOWEVER, IN "EMERGENCY" MODE OF OPERATION, FREZESTAT WILL BE OVERRIDDEN BY THE FIRE ALARM (F.A.) RELAY. AN AUDIBLE SIGNAL (DISTINGUISHABLE FROM THE FIRE ALARM SYSTEM SIGNAL) SHALL BE GIVEN FROM THE DDC SYSTEM TO INDICATE POSSIBLE TROUBLE FOR ACTION BY THE SYSTEM OPERATOR. THE SIGNAL SHALL BE GIVEN BOTH AT THE LOCAL LEVEL AND AT THE CENTRAL MONITORING STATION.

7. SEQUENCE OUTSIDE AIR DAMPERS IN RESPONSE TO DISCHARGE AIR CONTROL, WHICH IS RESET FROM RETURN TEMPERATURE TO PREVENT OVERCOOLING OF SPACE.

AIR HANDLING UNIT 8-1 THRU 8-4, 10-1, AND 10-2

NOTE: 10-2 AND 10-3 TYPICAL FOR BUILDINGS 10A, 10B, 10C, 10D, AND 10E



1. AIR HANDLING UNIT SUPPLY FAN MAY BE STARTED MANUALLY OR AUTOMATICALLY BY THE DDC PROGRAM RELAY. RETURN FAN MAY BE STARTED MANUALLY OR BY INTERLOCK WITH SUPPLY FAN.

2. UPON STARTING OF THE SUPPLY FAN, OUTSIDE AIR DAMPER OPENS TO ITS MINIMUM POSITION.

3. THE CHILL WATER AND HOT WATER VALVES ARE SEQUENCED TO MAINTAIN SPACE TEMPERATURES BETWEEN 68° F AND 78° F IN RESPONSE TO RETURN AIR TEMPERATURE.

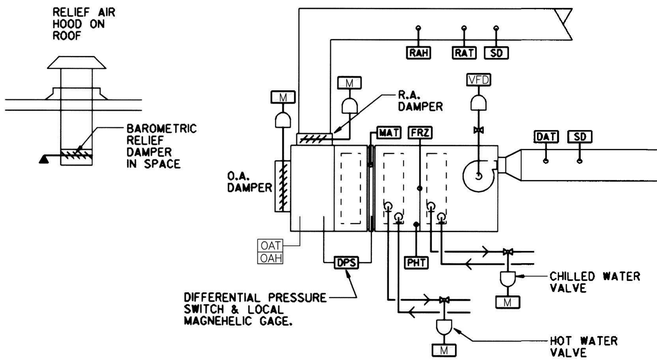
4. AS OUTSIDE AIR TEMPERATURE DROPS AND THE ENTHALPY BECOMES LESS THAN THAT OF THE RETURN AIR TEMPERATURE, THE OUTSIDE AIR DAMPER, THE RETURN AIR DAMPER, AND THE RELIEF AIR DAMPER ARE SEQUENCED TO PROVIDE "FREE" COOLING. AS DISCHARGE AIR CONTROLLER IS SATISFIED, THE OUTSIDE AIR DAMPER IS RETURNED TO ITS MINIMUM POSITION.

5. UPON A SIGNAL FROM THE FIRE ALARM SYSTEM OF SMOKE DETECTION IN ANY ZONE ADJACENT TO THE AHU, DDC LOGIC SHALL OPEN THE OUTSIDE AIR DAMPER TO 100% OUTSIDE AIR POSITION, RETURN AIR DAMPER IS CLOSED, AND AND RETURN/RELIEF AIR FAN IS DE-ENERGIZED TO PROVIDE MAKE-UP AIR TO SMOKE ZONE. AS SUPPLY FAN CONTINUES TO RUN, THE DUCT MOUNTED SMOKE DETECTOR SHALL DE-ENERGIZE FAN IF SMOKE IS DETECTED IN SUPPLY AIRSTREAM. IF SIGNAL FROM FIRE ALAROM INDICATES TROUBLE WITHIN AHU ZONE, BOTH SUPPLY FAN AND RETURN FAN SHALL BE DE-ENERGIZED. SMOKE EXHAUST FAN EF 8-6 SHALL ENERGIZE DURING A SMOKE EVENT.

6. IN "NORMAL" OPERATION, FREEZESTAT WILL DE-ENERGIZE SUPPLY FAN AND ITS RESPECTIVE SYSTEM CONTROL IF IT SENSES MIXED AIR ENTERING COIL LESS THAN 40° F. HOWEVER, IN "EMERGENCY" MODE OF OPERATION, FREZESTAT WILL BE OVERRIDDEN BY THE FIRE ALARM (F.A.) RELAY. AN AUDIBLE SIGNAL (DISTINGUISHABLE FROM THE FIRE ALARM SYSTEM SIGNAL) SHALL BE GIVEN FROM THE DDC SYSTEM TO INDICATE POSSIBLE TROUBLE FOR ACTION BY THE SYSTEM OPERATOR. THE SIGNAL SHALL BE GIVEN BOTH AT THE LOCAL LEVEL AND AT THE CENTRAL MONITORING STATION.

7. SEQUENCE OUTSIDE AIR DAMPERS IN RESPONSE TO DISCHARGE AIR CONTROL, WHICH IS RESET FROM RETURN TEMPERATURE TO PREVENT OVERCOOLING OF SPACE.

AIR HANDLING UNIT 8-5



1. AIR HANDLING UNIT SUPPLY FAN MAY BE STARTED MANUALLY OR AUTOMATICALLY BY THE DDC PROGRAM RELAY.

2. UPON STARTING OF THE SUPPLY FAN, OUTSIDE AIR DAMPER OPENS TO ITS MINIMUM POSITION. EXHAUST FANS SERVING THE SAME ZONE AS AHU ARE ENERGIZED THROUGH INTERLOCK WITH AHU SUPPLY FAN.

3. THE CHILL WATER IS SEQUENCED TO MAINTAIN DISCHARGE TEMPERATURE SETTING.

4. SUPPLY FAN IS MODULATED BY VARIABLE FREQUENCY DRIVE TO MAINTAIN DUCT STATIC PRESSURE CONTROLLER SETTING.

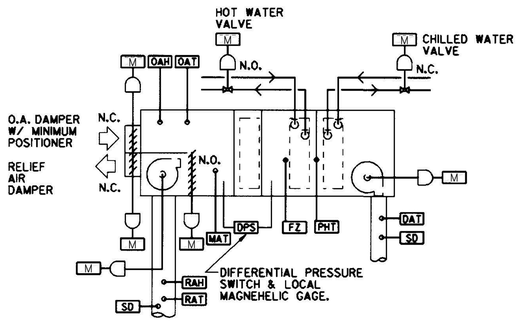
5. AS OUTSIDE AIR TEMPERATURE DROPS AND THE ENTHALPY BECOMES LESS THAN THAT OF THE RETURN AIR TEMPERATURE, THE OUTSIDE AIR DAMPER, THE RETURN AIR DAMPER, AND THE RELIEF AIR DAMPER ARE SEQUENCED TO PROVIDE "FREE" COOLING. AS DISCHARGE AIR CONTROLLER IS SATISFIED, THE OUTSIDE AIR DAMPER IS RETURNED TO ITS MINIMUM POSITION.

6. HOT WATER PREHEAT COIL MAINTAINS TEMPERATURE ENTERING THE CHILL WATER COIL AT MINIMUM OF 55° F.

7. IN "NORMAL" OPERATION, FREEZESTAT WILL DE-ENERGIZE SUPPLY FAN AND ITS RESPECTIVE SYSTEM CONTROL IF IT SENSES MIXED AIR ENTERING COIL LESS THAN 40° F.

8. UPON DETECTION OF SMOKE BY THE DUCT MOUNTED SMOKE DETECTORS, A RELAY IN THE SUPPLY FAN WILL DE-ENERGIZE AHU FANS AND CONTROLS, INCLUDING EXHAUST FANS THAT ARE INTERLOCKED WITH THE AHU.

AIR HANDLING UNIT 9-1 AND 7-1



1. AIR HANDLING UNIT SUPPLY FAN MAY BE STARTED MANUALLY OR AUTOMATICALLY BY THE DDC PROGRAM RELAY. RETURN FAN STARTED SEPARATELY EITHER MANUALLY OR THRU SUPPLY FAN AUXILIARY CONTACTS.

2. UPON STARTING OF THE SUPPLY FAN, OUTSIDE AIR DAMPER OPENS TO ITS MINIMUM POSITION. EXHAUST FANS SERVING THE SAME ZONE AS AHU ARE ENERGIZED THROUGH INTERLOCK WITH AHU SUPPLY FAN.

3. THE CHILL WATER IS SEQUENCED TO MAINTAIN DISCHARGE TEMPERATURE SETTING AT 55F.

4. SUPPLY AND RETURN/RELIEF FAN INLET VANES ARE MODULATED TO MAINTAIN DUCT STATIC PRESSURE CONTROLLER SETTING. RETURN/RELIEF FAN IS LAGGED BEHIND SUPPLY FAN TO PROVIDE MINIMUM OUTSIDE AIR QUANTITY, THROUGH INPUT FROM A SPACE STATIC PRESSURE CONTROLLER.

5. AS OUTSIDE AIR TEMPERATURE DROPS AND THE ENTHALPY BECOMES LESS THAN THAT OF THE RETURN AIR TEMPERATURE, THE OUTSIDE AIR DAMPER, THE RETURN AIR DAMPER, AND THE RELIEF AIR DAMPER ARE SEQUENCED TO PROVIDE "FREE" COOLING. AS DISCHARGE AIR CONTROLLER IS SATISFIED, THE OUTSIDE AIR DAMPER IS RETURNED TO ITS MINIMUM POSITION.

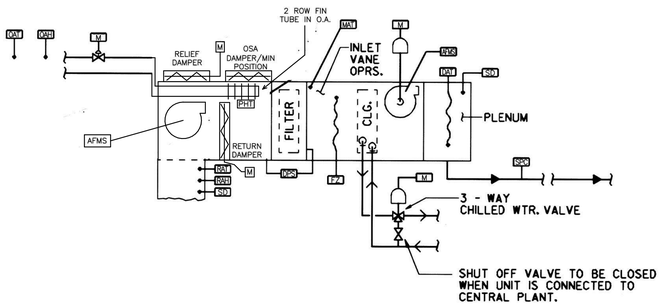
6. HOT WATER PREHEAT COIL MAINTAINS TEMPERATURE ENTERING THE CHILL WATER COIL AT A MINIMUM OF 55° F.

7. UPON A SIGNAL FROM THE FIRE ALARM SYSTEM OF SMOKE DETECTION IN ANY ZONE ADJACENT TO THE AHU, DDC LOGIC SHALL OPEN THE OUTSIDE AIR DAMPER TO 100% OUTSIDE AIR POSITION, RETURN AIR DAMPER IS CLOSED, AND AND RETURN/RELIEF AIR FAN IS DE-ENERGIZED TO PROVIDE MAKE-UP AIR TO SMOKE ZONE. AS SUPPLY FAN CONTINUES TO RUN, THE DUCT MOUNTED SMOKE DETECTOR SHALL DE-ENERGIZE FAN IF SMOKE IS DETECTED IN SUPPLY AIRSTREAM. IF SIGNAL FROM FIRE ALARM INDICATES TROUBLE WITHIN AHU ZONE, BOTH SUPPLY FAN AND RETURN FAN SHALL BE DE-ENERGIZED. SMOKE EXHAUST FAN EF 10-5 SHALL ENERGIZE DURING A SMOKE EVENT.

8. IN "NORMAL" OPERATION, FREEZESTAT WILL DE-ENERGIZE SUPPLY FAN AND ITS RESPECTIVE SYSTEM CONTROL IF IT SENSES MIXED AIR ENTERING COIL LESS THAN 40° F. HOWEVER, IN "EMERGENCY" MODE OF OPERATION, FREZESTAT WILL BE OVERRIDDEN BY THE FIRE ALARM (F.A.) RELAY. AN AUDIBLE SIGNAL (DISTINGUISHABLE FROM THE FIRE ALARM SYSTEM SIGNAL) SHALL BE GIVEN FROM THE DDC SYSTEM TO INDICATE POSSIBLE TROUBLE FOR ACTION BY THE SYSTEM OPERATOR. THE SIGNAL SHALL BE GIVEN BOTH AT THE LOCAL LEVEL AND AT THE CENTRAL MONITORING STATION.

AIR HANDLING UNIT10-3

NOTE: TYPICAL FOR BUILDINGS 10A, 10B, 10C, 10D, AND 10E



1. AIR HANDLING UNIT IS ENERGIZED FROM STARTER SWITCH. AIR HANDLING UNIT MAY BE STARTED FROM AUXILIARY CONTACT IN AUTOMATIC MODE FROM BUILDING AUTOMATION SYSTEM.

2. AIR HANDLING UNIT STARTER CIRCUIT IS WIRED THROUGH RELAY IN FIRE ALARM CONTROL PANEL FOR SHUTDOWN IN CASE OF FIRE.

3. DURING DETECTOIN OF SMOKE BY DUCT MOUNTED SMOKE DETECTOR SUPPLY FAN DE-ENERGIZES.

4. WHENEVER SUPPLY FAN IS ENERGIZED:

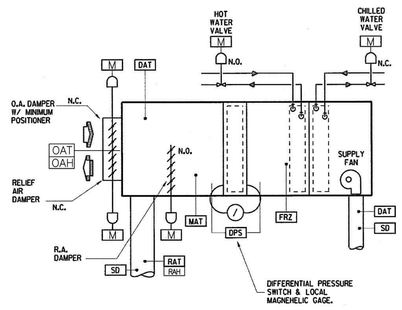
A. OUTSIDE AIR DAMPER IS OPENED.
B. SMOKE DAMPERS ON RESPECTIVE SYSTEM ARE OPENED.

5. DISCHARGE AIR TEMPERATURE IS MAINTAINED AT 55 F BY INPUT/OUTPUT CONTROLLER MODULATING CHILLED WATER VALVE.

6. FREE COOLING CYCLE IS CONTROLLED BY ENTHALPY DIFFERENTIATOR MODULATING CHANGEOVER RELAY WHICH OPERATES OUTSIDE AIR DAMPERS, RETURN AIR DAMPERS, AND RELIEF AIR DAMPERS TO MAINTAIN DISCHARGE SETPOINT 55 F.

7. WHENEVER OUTSIDE AIR TEMPERATURE DROPS TO 42° F (FIELD ADJUSTABLE), HOT WATER VALVE OPENS TO FIN TUBE PREHEATER IN OUTSIDE AIR INTAKE.

AIR HANDLING UNIT 12-1



1. ROOF TOP UNIT SUPPLY FAN MAY BE STARTED MANUALLY OR AUTOMATICALLY BY THE DDC PROGRAM RELAY.

2. UPON STARTING OF THE SUPPLY FAN, OUTSIDE AIR DAMPER OPENS TO ITS MINIMUM POSITION.

3. THE CHILLED WATER AND HOT WATER VALVES ARE SEQUENCED TO MAINTAIN SPACE TEMPERATURES BETWEEN 68° F AND 78° F IN RESPONSE TO RETURN AIR TEMPERATURES.

4. AS OUTSIDE AIR TEMPERATURE DROPS AND ENTHALPY BECOMES LESS THAT THAT OF THE RETURN AIR TEMPERATURE, THE OUTSIDE AIR DAMPER, RETURN AIR DAMPER, AND RELIEF AIR DAMPER ARE SEQUENCED (SEE NOTE #8) TO PROVIDE "FREE" COOLING. AS SPACE TEMPERATURES ARE SATISFIED, THE OUTSIDE AIR DAMPER IS RETURNED TO ITS MINIMUM POSITION.

5. UPON A SIGNAL FROM THE FIRE ALARM SYSTEM OF SMOKE DETECTION IN ANY ZONE ADJACENT TO THE AHU, DDC LOGIC SHALL OPEN THE OUTSIDE AIR DAMPER TO 100% OUTSIDE AIR POSITION, RETURN AIR DAMPER IS CLOSED, AND AND RETURN/RELIEF AIR FAN IS DE-ENERGIZED TO PROVIDE MAKE-UP AIR TO SMOKE ZONE. AS SUPPLY FAN CONTINUES TO RUN, THE DUCT MOUNTED SMOKE DETECTOR SHALL DE-ENERGIZE FAN IF SMOKE IS DETECTED IN SUPPLY AIRSTREAM. IF SIGNAL FROM FIRE ALARM INDICATES TROUBLE WITHIN AHU ZONE, BOTH SUPPLY FAN AND RETURN FAN SHALL BE DE-ENERGIZED.

8. IN "NORMAL" OPERATION, FREEZESTAT WILL DE-ENERGIZE SUPPLY FAN AND ITS RESPECTIVE SYSTEM CONTROL IF IT SENSES MIXED AIR ENTERING COIL LESS THAN 40° F. HOWEVER, IN "EMERGENCY" MODE OF OPERATION, FREZESTAT WILL BE OVERRIDDEN BY THE FIRE ALARM (F.A.) RELAY. AN AUDIBLE SIGNAL (DISTINGUISHABLE FROM THE FIRE ALARM SYSTEM SIGNAL) SHALL BE GIVEN FROM THE DDC SYSTEM TO INDICATE POSSIBLE TROUBLE FOR ACTION BY THE SYSTEM OPERATOR. THE SIGNAL SHALL BE GIVEN BOTH AT THE LOCAL LEVEL AND AT THE CENTRAL MONITORING STATION.

9. SEQUENCE OF OUTSIDE AIR DAMPERS IN RESPONSE TO DISCHARGE AIR CONTROL, WHICH IS RESET FROM RETURN TEMPERATURE TO PREVENT OVERCOOLING OF SPACE.

RTU 1 THRU 20 AND 1A THRU 5A

SSR Smith Seckman Reid, Inc.
2650 Thousand Oaks Boulevard,
Suite 3200
Memphis, TN 38118
(901) 683-3900
FAX: (901) 683-3990
www.ssr-inc.com
SSR Project #: 17671400

JASPER B. BRIGGS
REGISTERED ENGINEER
AGRICULTURE
NO. 114611
STATE OF TENNESSEE
10/8/2019

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

MECHANICAL CONTROLS SCHEMATICS

DRAWN BY:	CK	
DESIGNED BY:	CK	
CHECKED BY:	CB	
PHASE:	CD	DRAWING NO:
DATE:	11-08-2019	M-6.3

CK

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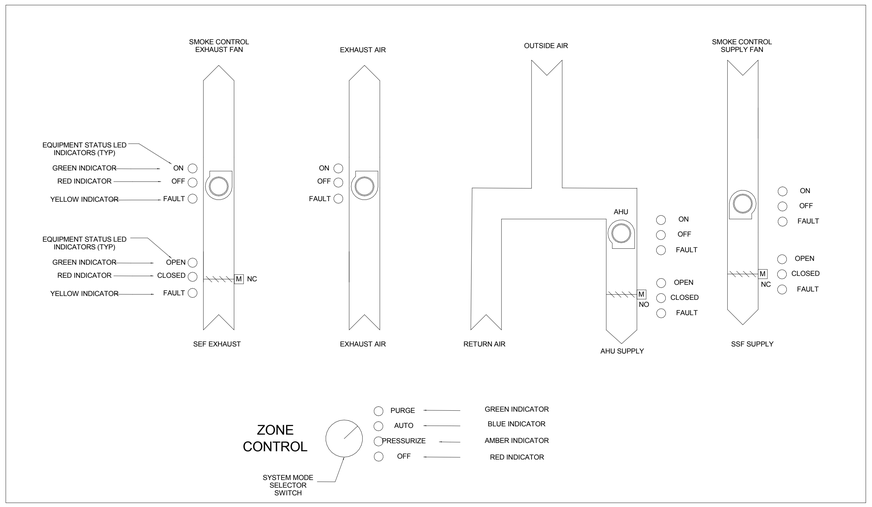
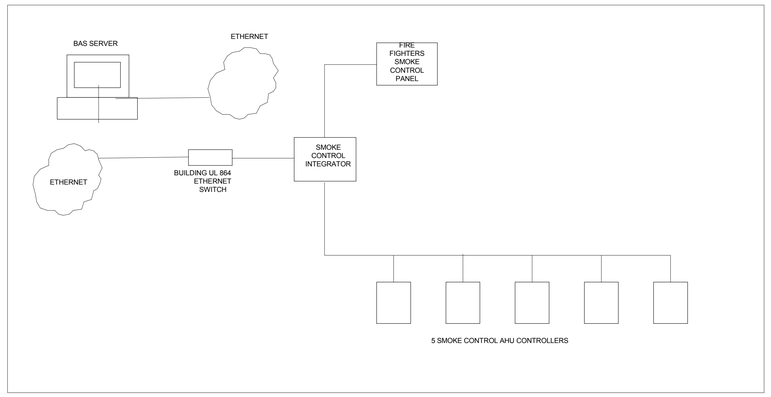
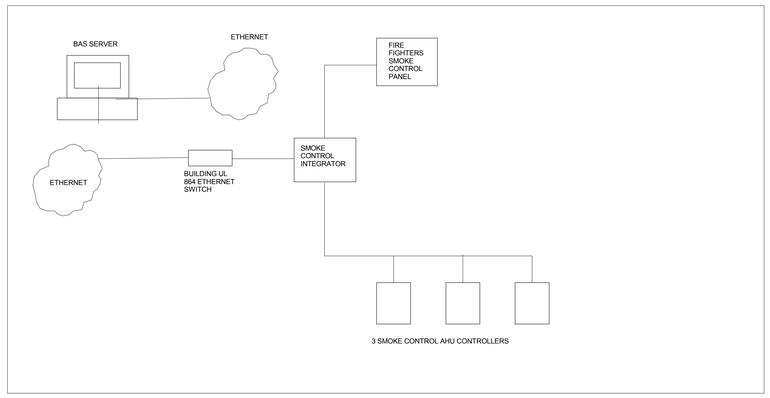


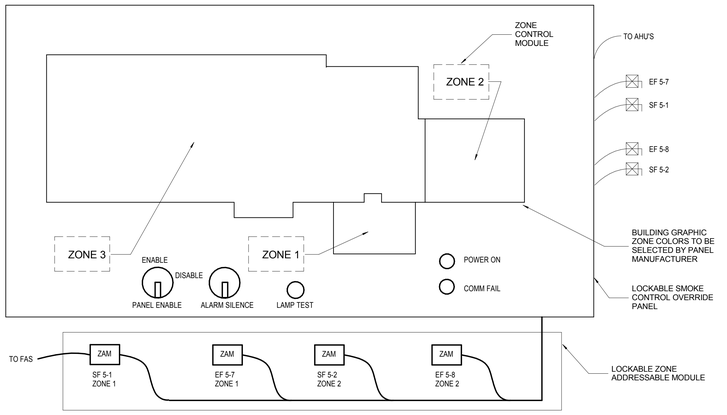
1 ZONE CONTROL MODULE DIAGRAM
NOT TO SCALE



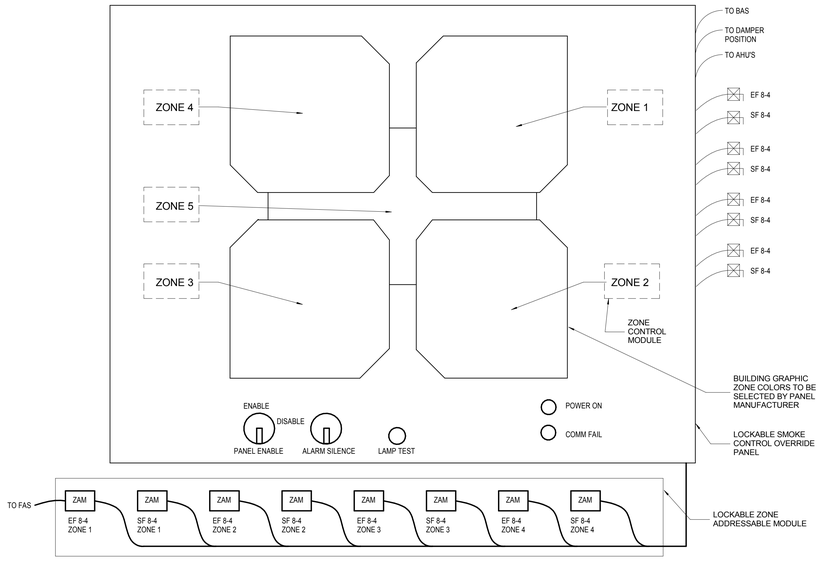
2 NETWORK ARCHITECTURE BUILDING MAXIMUM SECURITY HOUSING UNIT
NOT TO SCALE



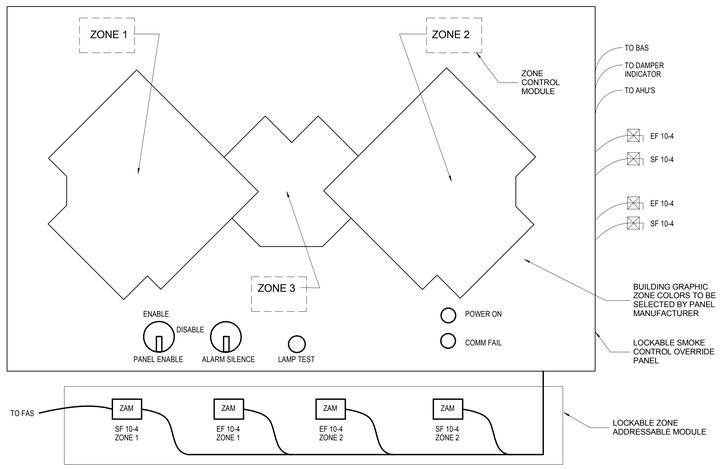
3 NETWORK ARCHITECTURE BUILDINGS HEALTH SERVICES AND MEDIUM SECURITY HOUSING UNIT
NOT TO SCALE



4 FIRE FIGHTER'S SMOKE CONTROL OVERRIDE PANEL HEALTH SERVICES
NOT TO SCALE



5 FIRE FIGHTER'S SMOKE CONTROL OVERRIDE PANEL MAXIMUM SECURITY HOUSING UNIT
NOT TO SCALE



6 FIRE FIGHTER'S SMOKE CONTROL OVERRIDE PANEL MEDIUM SECURITY HOUSING UNIT
12" = 1'-0"

SSR Smith Seckman Reid, Inc.
2650 Thousand Oaks Boulevard,
Suite 3200
Memphis, TN 38118
(901) 683-3900
FAX: (901) 683-3990
www.ssr-inc.com
SSR Project #: 17671400

JASPER B. BRICKS REGISTERED ENGINEER XXV AGRICULTURE ENGINEERING No. 114611 STATE OF TENNESSEE
11/08/2019

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

SMOKE CONTROLS

DRAWN BY:	DJ	
DESIGNED BY:	CB	
CHECKED BY:	DB	
PHASE:	CD	DRAWING NO:
DATE:	11-08-2019	M-7.1

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MECHANICAL EQUIPMENT CONNECTION SCHEDULE

GENERAL NOTES:
NONE.

REMARKS:
NONE.

TAG	DESCRIPTION	VOLTAGE	PHASE	H.P.	AMPS	PANEL	WIRE SIZE	CONDUIT SIZE	REMARKS
AHU-8-1a	AIR HANDLING UNIT (SUPPLY)	480 V	3	5	7.6 A	EXISTING 'EHC'	3 #12, #12G	1/2"	--
AHU-8-1b	AIR HANDLING UNIT (RETURN)	480 V	3	1.5	3 A	EXISTING 'EHC'	3 #12, #12G	1/2"	--
AHU-8-2a	AIR HANDLING UNIT (SUPPLY)	480 V	3	5	7.6 A	EXISTING 'EHC'	3 #12, #12G	1/2"	--
AHU-8-2b	AIR HANDLING UNIT (RETURN)	480 V	3	1.5	3 A	EXISTING 'EHC'	3 #12, #12G	1/2"	--
AHU-8-3a	AIR HANDLING UNIT (SUPPLY)	480 V	3	5	7.6 A	EXISTING 'EHC'	3 #12, #12G	1/2"	--
AHU-8-3b	AIR HANDLING UNIT (RETURN)	480 V	3	1.5	3 A	EXISTING 'EHC'	3 #12, #12G	1/2"	--
AHU-8-4a	AIR HANDLING UNIT (SUPPLY)	480 V	3	5	7.6 A	EXISTING 'EHC'	3 #12, #12G	1/2"	--
AHU-8-4b	AIR HANDLING UNIT (RETURN)	480 V	3	1.5	3 A	EXISTING 'EHC'	3 #12, #12G	1/2"	--
AHU-8-5a	AIR HANDLING UNIT (SUPPLY)	480 V	3	7.5	11 A	EXISTING 'EHC'	3 #12, #12G	1/2"	--
AHU-8-5b	AIR HANDLING UNIT (RETURN)	480 V	3	2	3.4 A	EXISTING 'EHC'	3 #12, #12G	1/2"	--
AHU-10-1a	AIR HANDLING UNIT (SUPPLY)	480 V	3	10	14 A	EXISTING 'EHM'	3 #12, #12G	1/2"	--
AHU-10-1b	AIR HANDLING UNIT (RETURN)	480 V	3	5	7.6 A	EXISTING 'EHM'	3 #12, #12G	1/2"	--
AHU-10-2a	AIR HANDLING UNIT (SUPPLY)	480 V	3	10	14 A	EXISTING 'EHM'	3 #12, #12G	1/2"	--
AHU-10-2b	AIR HANDLING UNIT (RETURN)	480 V	3	5	7.6 A	EXISTING 'EHM'	3 #12, #12G	1/2"	--
AHU-10-3a	AIR HANDLING UNIT (SUPPLY)	480 V	3	5	7.6 A	EXISTING 'EHM'	3 #12, #12G	1/2"	--
AHU-10-3b	AIR HANDLING UNIT (RETURN)	480 V	3	1.5	3 A	EXISTING 'EHM'	3 #12, #12G	1/2"	--
EF-5-7	SMOKE EXHAUST FAN	120 V	1	1/4	5.8 A	EXISTING 'EL8'	2 #12, #12G	1/2"	--
EF-5-8	SMOKE EXHAUST FAN	120 V	1	1/3	7.2 A	EXISTING 'EL8'	2 #12, #12G	1/2"	--
EF-8-4A	SMOKE EXHAUST FAN	480 V	3	3	4.8 A	EXISTING 'EHC'	3 #12, #12G	1/2"	--
EF-8-4B	SMOKE EXHAUST FAN	480 V	3	3	4.8 A	EXISTING 'EHC'	3 #12, #12G	1/2"	--
EF-8-4C	SMOKE EXHAUST FAN	480 V	3	3	4.8 A	EXISTING 'EHC'	3 #12, #12G	1/2"	--
EF-8-4D	SMOKE EXHAUST FAN	480 V	3	3	4.8 A	EXISTING 'EHC'	3 #12, #12G	1/2"	--
EF-10-4A	SMOKE EXHAUST FAN	480 V	3	3	4.8 A	EXISTING 'EHM'	3 #12, #12G	1/2"	--
EF-10-4B	SMOKE EXHAUST FAN	480 V	3	3	4.8 A	EXISTING 'EHM'	3 #12, #12G	1/2"	--
SCP-4	SMOKE CONTROL PANEL	120 V	1	-	5 A	EXISTING 'LC2'	2 #12, #12G	1/2"	--
SCP-5	SMOKE CONTROL PANEL	120 V	1	-	5 A	EXISTING 'ELM'	2 #12, #12G	1/2"	--
SCP-9	SMOKE CONTROL PANEL	120 V	1	-	5 A	EXISTING 'EL8'	2 #12, #12G	1/2"	--
SF-5-1	SMOKE MAKEUP FAN	120 V	1	1/4	5.8 A	EXISTING 'EL8'	2 #12, #12G	1/2"	--
SF-5-2	SMOKE MAKEUP FAN	120 V	1	1/2	9.8 A	EXISTING 'EL8'	2 #12, #12G	1/2"	--
SF-8-4A	SMOKE MAKEUP FAN	480 V	3	3	4.8 A	EXISTING 'HC'	3 #12, #12G	1/2"	--
SF-8-4B	SMOKE MAKEUP FAN	480 V	3	3	4.8 A	EXISTING 'HC'	3 #12, #12G	1/2"	--
SF-8-4C	SMOKE MAKEUP FAN	480 V	3	3	4.8 A	EXISTING 'HC'	3 #12, #12G	1/2"	--
SF-8-4D	SMOKE MAKEUP FAN	480 V	3	3	4.8 A	EXISTING 'HC'	3 #12, #12G	1/2"	--
SF-10-4A	SMOKE MAKEUP FAN	480 V	3	3	4.8 A	EXISTING 'EHM'	3 #12, #12G	1/2"	--
SF-10-4B	SMOKE MAKEUP FAN	480 V	3	3	4.8 A	EXISTING 'EHM'	3 #12, #12G	1/2"	--

ELECTRICAL DEMOLITION NOTES

A. ALL WORK SHOWN IS THE RESULT OF LIMITED FIELD INVESTIGATION AND EXISTING ORIGINAL PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND INFORM THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BIDDING.

B. IF ALL DEVICES/LIGHT FIXTURES ON A CIRCUIT ARE REMOVED, REMOVE CONDUCTORS AND RACEWAY BACK TO PANEL UNLESS OTHERWISE NOTED. IF ALL DEVICES ARE NOT REMOVED, CONNECT REMAINING DEVICES BACK TO ORIGINAL CIRCUIT.

C. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS BEFORE WORK BEGINS. CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BEGINNING WORK AND REVIEW ALL AREAS CONCERNED WITH THIS PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INFORM THE DESIGNER OF ANY DISCREPANCY IN THE CONTRACT DOCUMENTS INDICATING ANY ADDITIONAL WORK REQUIRED TO BE PERFORMED WITH EXPLANATION OF WORK.

D. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SCHEDULE ALL DEMOLITION WORK WITH THE OWNER WELL IN ADVANCE. WORK SHALL BE PERFORMED AT SUCH TIMES AND UNDER SUCH CONDITIONS AS SUITS THE OWNER. COORDINATE ELECTRICAL SYSTEMS OPERATION INTERRUPTIONS WITH BUILDING OPERATIONS PERSONNEL. DEMOLITION SHALL BE STAGED TO MAINTAIN DOWNTIME AT AN ABSOLUTE MINIMUM.

E. PATCH HOLES LEFT IN WALLS AND FLOORS AFTER REMOVAL OF EXISTING PIPING, CONDUIT, ETC... TO MATCH NEW OR EXISTING CONSTRUCTION AND FIRE RATING.

F. CONTRACTOR SHALL SUBMIT A COMPLETE LIST OF EQUIPMENT AND ITEMS TO BE REMOVED TO THE OWNER. ALL ITEMS THAT THE OWNER WISHES TO RETAIN SHALL BE PLACED IN STORAGE AND THE REMAINDER SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.

G. REMOVE ALL JUNCTION BOXES, CONDUIT, PIPE HANGERS, STRAPS OR TIE WIRES ANCHORED IN CONCRETE SLAB ABOVE CEILING THAT ARE NO LONGER IN USE.

H. EXISTING SERVICES INDICATED ON THESE DRAWINGS WERE DERIVED FROM EXISTING DRAWINGS AND LIMITED FIELD OBSERVATIONS. THESE DRAWINGS ARE NOT ALL INCLUSIVE OF SERVICES THAT EXIST IN THE PROJECT AREA. CONTRACTOR SHALL VERIFY SERVICES, LOCATION, TYPE, AND SIZES PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS IMPACTING WORK SHOWN ON THESE DOCUMENTS SHALL BE REPORTED TO THE DESIGNER FOR COORDINATION PRIOR TO DEMOLITION.

I. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR WALL, FLOOR AND CEILING DEMOLITION REQUIREMENTS.

J. COORDINATE WITH MECHANICAL DRAWINGS FOR ELECTRICAL DEMOLITION REQUIREMENTS.

K. IF ANY EXISTING CIRCUITS ARE TO REMAIN FROM PANEL THAT IS IN THE DEMOLITION AREA, NOTIFY ENGINEER OF NUMBER OF CIRCUITS TO REMAIN, WHAT THE CIRCUITS SERVE AND CIRCUIT SIZE FOR DIRECTION PRIOR TO DEMOLITION OF PANEL.

GENERAL NOTES

A. WIRE COUNTS ARE NOT SHOWN ON CONDUIT SYMBOLS. REFER TO NOTES ON DRAWINGS AND TO SCHEDULES FOR WIRE COUNT, WIRE SIZES AND CONDUIT SIZES.

B. WHERE DISCONNECT SWITCHES ARE SHOWN FOR A PIECE OF EQUIPMENT SUBJECT TO VIBRATION, CONNECT THE EQUIPMENT TO THE DISCONNECT SWITCH USING SEALTITE FLEXIBLE CONDUIT AND THE SAME SIZE WIRE AS REQUIRED FOR THE BRANCH CIRCUIT.

C. WHERE WIRE AND CONDUIT SIZES ARE SHOWN ON ONE PART OF A FEEDER OR BRANCH CIRCUIT, USE THE SAME WIRE AND CONDUIT SIZES FOR THE ENTIRE FEEDER OR BRANCH CIRCUIT UNLESS OTHERWISE NOTED ON THE DRAWINGS.

D. CONTRACTOR SHALL PAY PARTICULAR ATTENTION DURING ROUGH-IN TO PLACEMENT OF BOXES FOR SWITCHES, RECEPTACLES, TELEPHONE OUTLETS, ETC., TO SEE THAT BOXES ARE GANGED AND GROUPED TOGETHER AND CENTERED ON WALL SECTIONS OR BENEATH WINDOWS EXCEPT AS NOTED ON PLANS. CONTRACTOR SHALL SPAN BETWEEN FRAMING CHANNELS AS NECESSARY TO ACCOMPLISH POSITIONING OF DEVICES DESCRIBED ABOVE.

E. NOTES ON FLOOR PLANS AND SITE PLANS APPLY ONLY TO THE SHEET ON WHICH THEY APPEAR.

F. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO ENSURE DEVICES INCLUDING BUT NOT LIMITED TO SECURITY, TELEPHONE, LIGHTING, FIRE ALARM, MISC. POWER, ETC., LOCATED IN AREAS WHERE WALLS ARE POURED IN PLACE OR PRECAST, ARE FLUSH MOUNTED AND ASSOCIATED RACEWAYS ARE ROUTED CONCEALED. IN AREAS SUCH AS ELECTRICAL AND MECHANICAL ROOMS, SERVICE CORRIDORS, ETC., EXPOSED CONDUITS AND SURFACE MOUNTED BOXES MAY BE PERMITTED. IN AREAS WHERE NO CEILING IS SHOWN, CONDUITS SHALL TRANSITION TO CONCEALED IN WALL FOR SWITCH LEGS, RECEPTACLES, ETC.

ELECTRCIAL LEGEND

CIRCUITS AND RACEWAYS

	BRANCH CIRCUIT OR RACEWAY CONCEALED OR EXPOSED
	BRANCH CIRCUIT OR RACEWAY BELOW OR IN FLOOR SLAB OR BELOW GRADE
o	CONDUIT OR RACEWAY TURNING UP
•	CONDUIT OR RACEWAY TURNING DOWN
	CAPPED CONDUIT OR RACEWAY
	CIRCUIT OR CONDUIT CONTINUATION
PARTIAL CIRCUIT	HOMERUN TO PANELBOARD - NUMBER OF ARROWHEADS INDICATES QUANTITY OF CIRCUITS. REFER TO SPECIFICATIONS FOR MINIMUM CONDUIT SIZES. NOTES: 1. ALL BRANCH CIRCUITS SHALL BE #12 AWG MINIMUM. REFER TO THE SPECIFICATIONS FOR UPSIZING REQUIREMENTS DUE TO VOLTAGE DROP OR OTHER PURPOSES. 2. ALL BRANCH CIRCUITS SHALL CONTAIN A SEPARATE GREEN INSULATED GROUNDING CONDUCTOR, #12 AWG MINIMUM, OR OTHERWISE AS NOTED. 3. ALL 120V AND 277V BRANCH CIRCUITS SHALL UTILIZE A SEPARATE DEDICATED NEUTRAL UNLESS OTHERWISE NOTED.

MISCELLANEOUS

	NON-FUSIBLE SAFETY SWITCH, SIZE AS NOTED (AMP RATING/POLES)
	FUSIBLE SAFETY SWITCH, SIZE AS NOTED (AMP RATING/POLES/FUSE SIZE)
	COMBINATION MOTOR STARTER/SAFETY SWITCH
	FACTORY WIRED CONTROLLER OR EQUIPMENT
X	MOTOR CONNECTION
	DUCT HEATER CONNECTION
J	JUNCTION BOX
	PANELBOARD
VFD	VARIABLE FREQUENCY DRIVE
XXX-XX-XX	MECHANICAL EQUIPMENT TAG

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
CLG	CEILING
COP	COPIER
E	EMERGENCY POWER
EPO	EMERGENCY POWER OFF
FBO	FURNISHED BY OTHERS
FLR	FLOOR MOUNTED
FSD	FIRE/SMOKE DAMPER
IG	ISOLATED GROUND
MW	MICROWAVE
S	SAFETY TYPE
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHERPROOF

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SSR Project #: 17671400

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

ELECTRICAL GENERAL NOTES, LEGEND & MECHANICAL EQUIPMENT CONNECTION SCHEDULE

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PHASE:	CD
DATE:	11-08-2019

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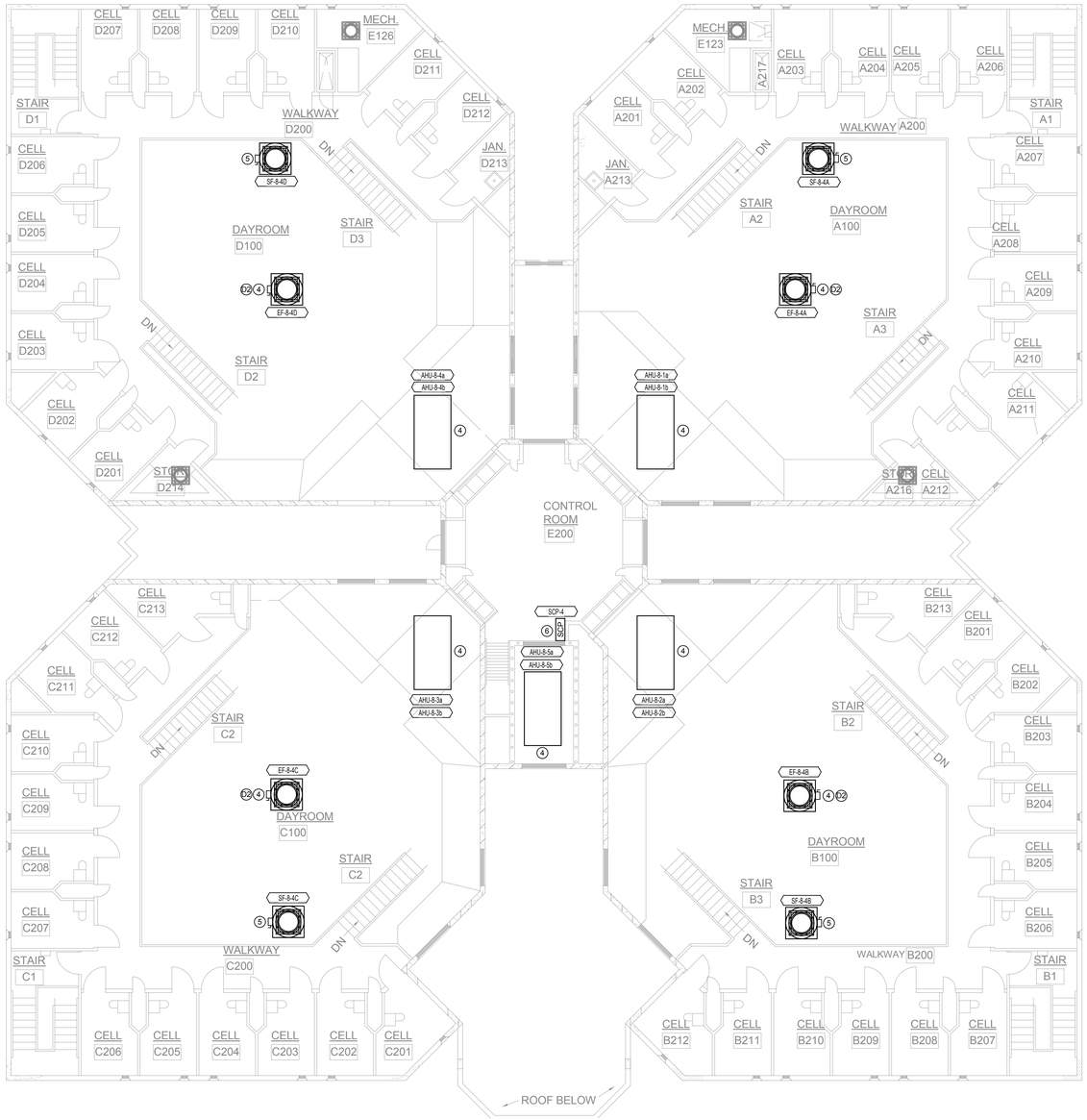


1 High Security Housing Unit 1/2/3/4 - Second Floor - Electrical
1/8" = 1'-0"

0 4' 8' 16'

GENERAL NOTES

A. SEE SHEET E-0.0 FOR ELECTRICAL GENERAL NOTES, LEGEND AND MECHANICAL EQUIPMENT CONNECTION SCHEDULE.

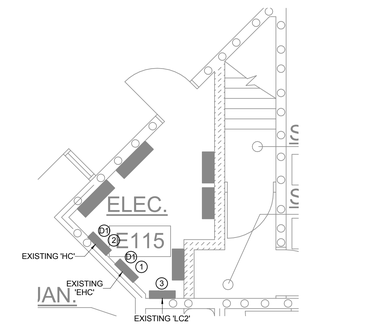
KEYED DEMOLITION NOTES

D1 DISCONNECT ALL ELECTRICAL CIRCUITS SERVING MECHANICAL EQUIPMENT AS IDENTIFIED BY MECHANICAL DEMOLITION DOCUMENTS.

D2 DISCONNECT ELECTRICAL CIRCUITS SERVING MECHANICAL EQUIPMENT AS INDICATED. REMOVE CONDUCTORS AND RACEWAY BACK TO TO EXISTING PANEL.

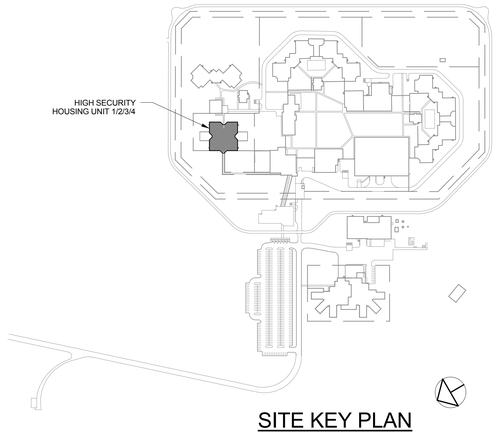
KEYED NOTES

1. EXISTING PANEL 'EHC' (480Y/277V, 3-PHASE, 4-WIRE). UTILIZE EXISTING UNASSIGNED BRANCH CIRCUIT BREAKERS TO SERVE NEW BRANCH CIRCUITS INDICATED.
2. EXISTING PANEL 'HC' (480Y/277V, 3-PHASE, 4-WIRE). UTILIZE EXISTING UNASSIGNED BRANCH CIRCUIT BREAKERS TO SERVE NEW BRANCH CIRCUITS INDICATED.
3. EXISTING PANEL 'LC2' (208Y/120V, 3-PHASE, 4-WIRE). UTILIZE EXISTING UNASSIGNED BRANCH CIRCUIT BREAKERS TO SERVE NEW BRANCH CIRCUITS INDICATED.
4. REUSE EXISTING CIRCUIT IN EXISTING PANEL 'EHC' SERVING EXISTING MECHANICAL EQUIPMENT IN THIS LOCATION TO SERVE NEW REPLACEMENT MECHANICAL EQUIPMENT.
5. REUSE EXISTING CIRCUIT IN EXISTING PANEL 'HC' SERVING EXISTING MECHANICAL EQUIPMENT IN THIS LOCATION TO SERVE NEW REPLACEMENT MECHANICAL EQUIPMENT.
6. PROVIDE DEDICATED 20A, 1PH, 120V CONNECTION IN EXISTING PANEL 'LC2' FOR NEW SMOKE CONTROL PANEL POWER.



2 First Floor - Electrical Room E115
1/4" = 1'-0"

0 2' 4' 8'



SITE KEY PLAN
NOT TO SCALE

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SSR Project #: 17671400

No.	Date	Description

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LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

HIGH SECURITY HOUSING UNIT 1/2/3/4 - SECOND FLOOR - ELECTRICAL

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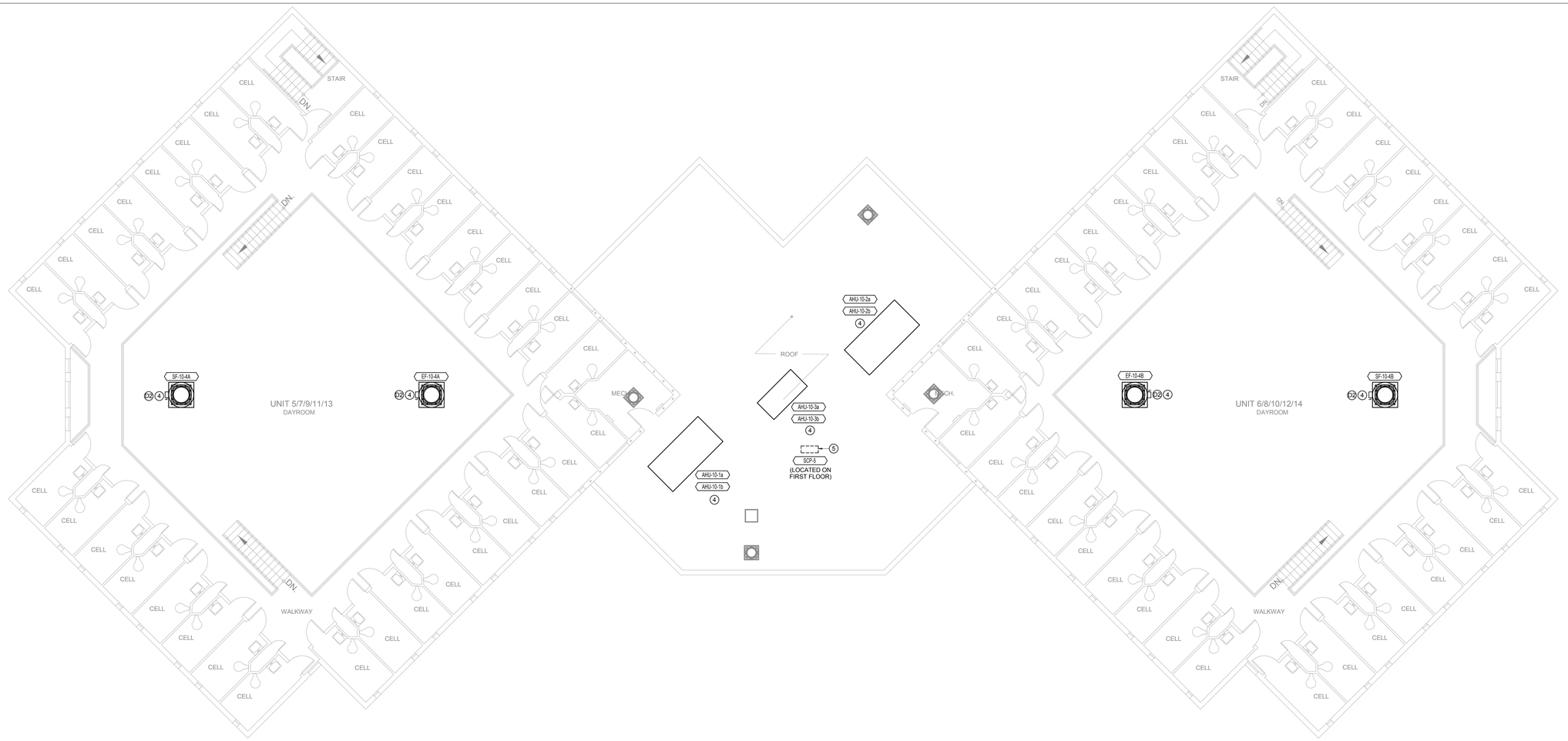
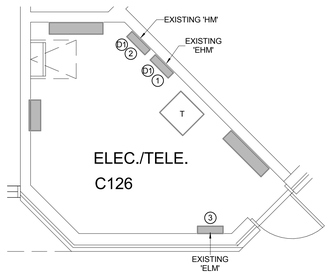


1 Medium Security Housing Unit 5/6,7/8,9/10,11/12,13/14 - Second Floor - Electrical

1/8" = 1'-0"

0 4' 8' 16'

5/6 7/8 9/10,11/12 13/14



2 First Floor - Electrical Room C126

1/4" = 1'-0"

0 2' 4' 8'

5/6 7/8 9/10,11/12 13/14

GENERAL NOTES

A. SEE SHEET E-0.0 FOR ELECTRICAL GENERAL NOTES, LEGEND AND MECHANICAL EQUIPMENT CONNECTION SCHEDULE.

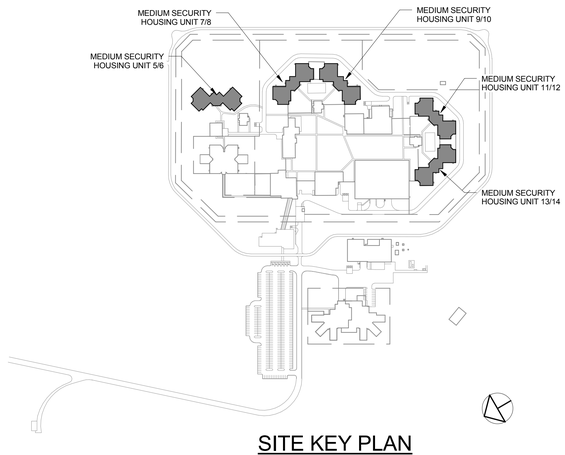
KEYED DEMOLITION NOTES

D1 DISCONNECT ALL ELECTRICAL CIRCUITS SERVING MECHANICAL EQUIPMENT AS IDENTIFIED BY MECHANICAL DEMOLITION DOCUMENTS.

D2 DISCONNECT ELECTRICAL CIRCUITS SERVING MECHANICAL EQUIPMENT AS INDICATED. REMOVE CONDUCTORS AND RACEWAY BACK TO TO EXISTING PANEL.

KEYED NOTES

1. EXISTING PANEL 'EHM' (480Y/277V, 3-PHASE, 4-WIRE). UTILIZE EXISTING UNASSIGNED BRANCH CIRCUIT BREAKERS TO SERVE NEW BRANCH CIRCUITS INDICATED.
2. EXISTING PANEL 'HM' (480Y/277V, 3-PHASE, 4-WIRE). UTILIZE EXISTING UNASSIGNED BRANCH CIRCUIT BREAKERS TO SERVE NEW BRANCH CIRCUITS INDICATED.
3. EXISTING PANEL 'ELM' (208Y/120V, 3-PHASE, 4-WIRE). UTILIZE EXISTING UNASSIGNED BRANCH CIRCUIT BREAKERS TO SERVE NEW BRANCH CIRCUITS INDICATED.
4. REUSE EXISTING CIRCUIT IN EXISTING PANEL 'EHM' SERVING EXISTING MECHANICAL EQUIPMENT IN THIS LOCATION TO SERVE NEW REPLACEMENT MECHANICAL EQUIPMENT.
5. PROVIDE DEDICATED 20A, 1PH, 120V CONNECTION IN EXISTING PANEL 'ELM' FOR NEW SMOKE CONTROL PANEL POWER.



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SSR Project #: 17671400

No.	Date	Description

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SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

MEDIUM SECURITY HOUSING UNIT 5/6,7/8,9/10,11/12,13/14 - SECOND FLOOR - ELECTRICAL

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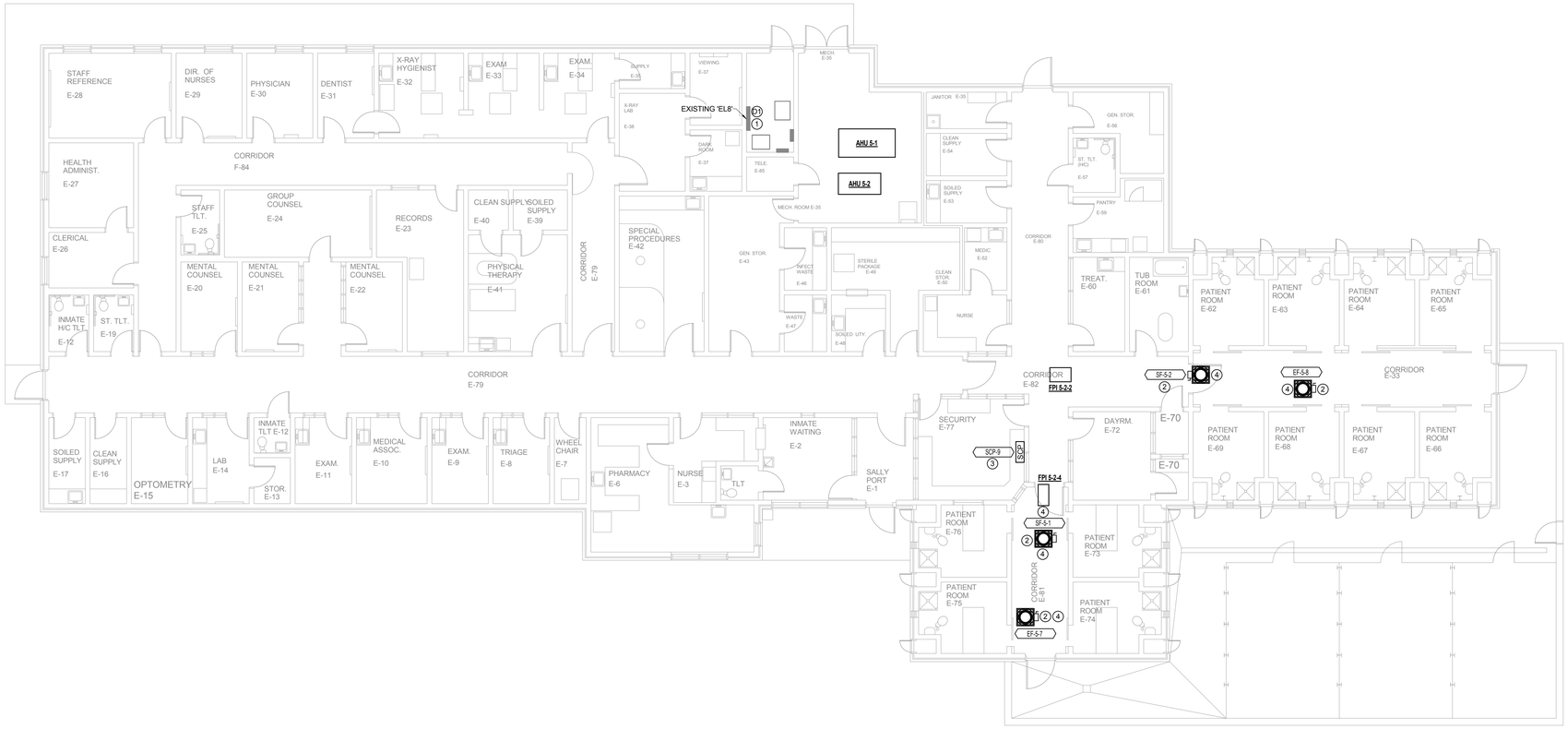


1 Health Services Building - Electrical

1/8" = 1'-0"

0 4' 8' 16'

GENERAL NOTES

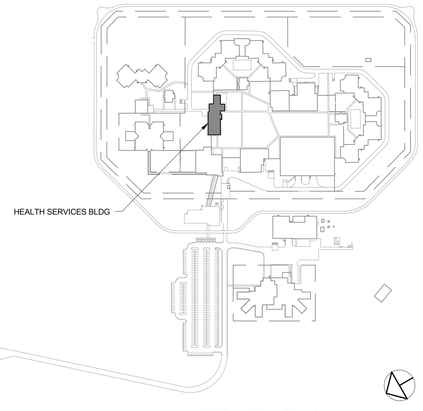
A. SEE SHEET E-0.0 FOR ELECTRICAL GENERAL NOTES, LEGEND AND MECHANICAL EQUIPMENT CONNECTION SCHEDULE.

KEYED DEMOLITION NOTES

D1 DISCONNECT ALL ELECTRICAL CIRCUITS SERVING MECHANICAL EQUIPMENT AS IDENTIFIED BY MECHANICAL DEMOLITION DOCUMENTS.

KEYED NOTES

1. EXISTING PANEL 'EL8' (208Y/120V, 3-PHASE, 4-WIRE). UTILIZE EXISTING UNASSIGNED BRANCH CIRCUIT BREAKERS TO SERVE NEW BRANCH CIRCUITS INDICATED.
2. REPLACEMENTREUSE EXISTING CIRCUIT IN EXISTING PANEL 'EL8' SERVING EXISTING MECHANICAL EQUIPMENT IN THIS LOCATION TO SERVE NEW REPLACEMENT MECHANICAL EQUIPMENT.
3. PROVIDE DEDICATED 20A, 1PH, 120V CONNECTION IN EXISTING PANEL 'EL8' FOR NEW SMOKE CONTROL PANEL POWER.
4. PROVIDE DEDICATED 20A, 1PH, 120V CONNECTION IN EXISTING PANEL 'EL8' FOR NEW MOTORIZED DAMPERS SERVING NEW MECHANICAL EQUIPMENT.



SITE KEY PLAN

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SSR Project #: 17671400

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

HEALTH SERVICES BUILDING - ELECTRICAL

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DESIGNED BY:	RH	
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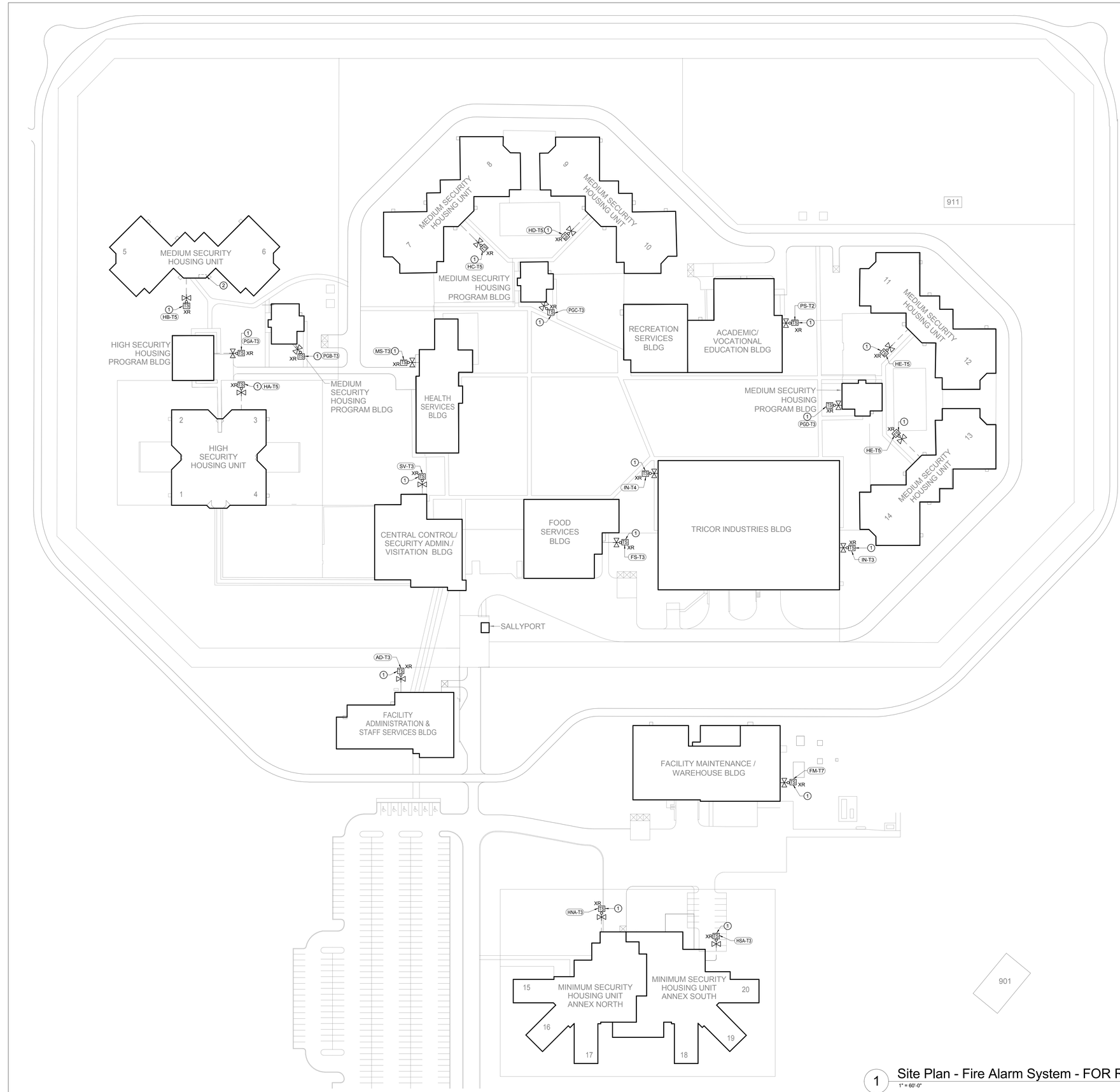

1 Site Plan - Fire Alarm System - FOR REFERENCE
1" = 60'-0"

60' 0 60' 120'

LEGEND

	FIRE ALARM VISUAL DEVICE - STROBE ONLY
	FIRE ALARM CEILING MOUNT VISUAL DEVICE - STROBE ONLY
	FIRE ALARM AUDIO DEVICE
	FIRE ALARM AUDIO DEVICE WITH STROBE
	FIRE ALARM HORN
	FIRE ALARM HORN WITH STROBE
	FIRE ALARM CEILING MOUNT HORN WITH STROBE
F	FIRE ALARM MANUAL PULL STATION
S	FIRE ALARM SMOKE DETECTOR
H	FIRE ALARM HEAT DETECTOR SUBSCRIPT AS FOLLOWS: R=RATE OF RISE; T=FIXED TEMPERATURE
S X	FIRE ALARM DUCT SMOKE DETECTOR SUBSCRIPT AS FOLLOWS: S=SUPPLY; R=RETURN
CM	FIRE ALARM CONTROL MODULE
MM	FIRE ALARM MONITOR MODULE
RM	FIRE ALARM RELAY MODULE
FS	FLOW SWITCH
TS	TAMPER SWITCH
	MAGNETIC DOOR HOLDER
R	SMOKE DETECTOR REMOTE INDICATOR / TEST SWITCH
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
SCP	SMOKE CONTROL PANEL
SDI	SMOKE DAMPER (EXISTING TO REMAIN)
ES	ELECTRIC SHUTOFF VALVE
	EXISTING MECHANICAL EQUIPMENT
	COMBINATION MOTOR STARTER/SAFETY SWITCH
J	JUNCTION BOX
	PANELBOARD
SSP	SECURITY SYSTEM CONTROL PANEL
N	NEW DEVICE AT NEW LOCATION
RN	REPLACE EXISTING DEVICE WITH NEW DEVICE
XR	EXISTING DEVICE TO REMAIN
RX	REMOVE EXISTING DEVICE

INITIATING DEVICE IDENTIFICATION KEY

BUILDING — COUNT — DEVICE TYPE

AD	= ADMINISTRATION	F	= SPRINKLER WATERFLOW SWITCH
FM	= FACILITY MAINTENANCE/ WAREHOUSE	M	= MANUAL STATION
FS	= FOOD SERVICE	MS	= POSITION MONITOR SWITCH
HA	= HOUSING 1/2/3/4	H	= HEAT DETECTOR
HB	= HOUSING 5/6	S	= SMOKE DETECTOR
HC	= HOUSING 7/8	SD	= SMOKE DETECTOR - DUCT MOUNTED
HD	= HOUSING 9/10	T	= SPRINKLER VAVLE TAMPER SWITCH
HE	= HOUSING 11/12	X	= SPECIAL SYSTEM MONITOR
HF	= HOUSING 13/14		
HNA	= HOUSING NORTH ANNEX		
HSA	= HOUSING SOUTH ANNEX		
IN	= INDUSTRIES		
MS	= HEALTH/ MEDICAL SERVICES		
PGA	= HIGH SECURITY HOUSING PROGRAM A		
PGB	= MEDIUM SECURITY HOUSING PROGRAM B		
PGC	= MEDIUM SECURITY HOUSING PROGRAM C		
PGD	= MEDIUM SECURITY HOUSING PROGRAM D		
PS	= ACADEMIC/VOCATIONAL EDUCATION		
RS	= RECREATIONAL SERVICES		
SV	= SECURITY/ VISITATION		

GENERAL NOTES

1. DUE TO THE UNCERTAINTY OF EXISTING UNDERGROUND SITE UTILITIES, THE CONTRACTOR SHALL EMPLOY THE SERVICES OF AN INDEPENDENT THIRD PARTY UTILITY LOCATING FIRM SPECIALIZING IN GROUND PENETRATING RADAR FOR UTILITY DETECTION PRIOR TO ANY EXCAVATION ACTIVITIES. ANY UTILITIES DISRUPTED DURING THE INSTALLATION OF THE NEW FIRE ALARM SYSTEMS SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER. DAMAGE TO EXISTING FIBER OPTIC CABLE WILL BE REPAIRED BY THE OWNER AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL NOTIFY THE FACILITY STAFF AND DESIGNER IMMEDIATELY IN THE EVENT OF ANY UTILITY DISRUPTION. THE FACILITY STAFF WILL DETERMINE THE URGENCY OF THE REPAIR AND IF ADDITIONAL SECURITY STAFFING WILL BE REQUIRED. SEE SPECIFICATION SECTION 01 35 13.16 FOR SECURITY OFFICER ESCORT COSTS.
2. ANY GROUND COVER DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION. IF SEEDING OF LAWNS DOES NOT PROVIDE A SUFFICIENT STAND OF GRASS AT THE TIME OF SUBSTANTIAL COMPLETION, THE CONTRACTOR SHALL SOD LAWN AREAS AT NO ADDITIONAL COST TO THE OWNER.
3. ALL NEW UNDERGROUND CONDUIT SHALL BE 3' DEEP MINIMUM WITH TRACER WIRE AND MARKING TAPE INSTALLED 1 FT BELOW FINISH GRADE.

KEYED NOTES

1. EXISTING TAMPER SWITCH ON POST INDICATOR VALVE SHALL REMAIN. REPLACE EXISTING WIRING WITH NEW WIRING. PROVIDE NEW MONITOR MODULE FOR INTERFACE TO NEW FIRE ALARM SYSTEM. UTILIZE EXISTING UNDERGROUND RACEWAY.
2. EXISTING TAMPER SWITCH ON SPRINKLER VALVE SHALL REMAIN. REPLACE EXISTING WIRING WITH NEW WIRING. PROVIDE NEW MONITOR MODULE FOR INTERFACE TO NEW FIRE ALARM SYSTEM. UTILIZE EXISTING RACEWAY.

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SSR Project #: 17671400

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

SITE PLAN - FIRE ALARM SYSTEM

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DESIGNED BY:	RH	
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DATE:	11-08-2019	FA-0.1

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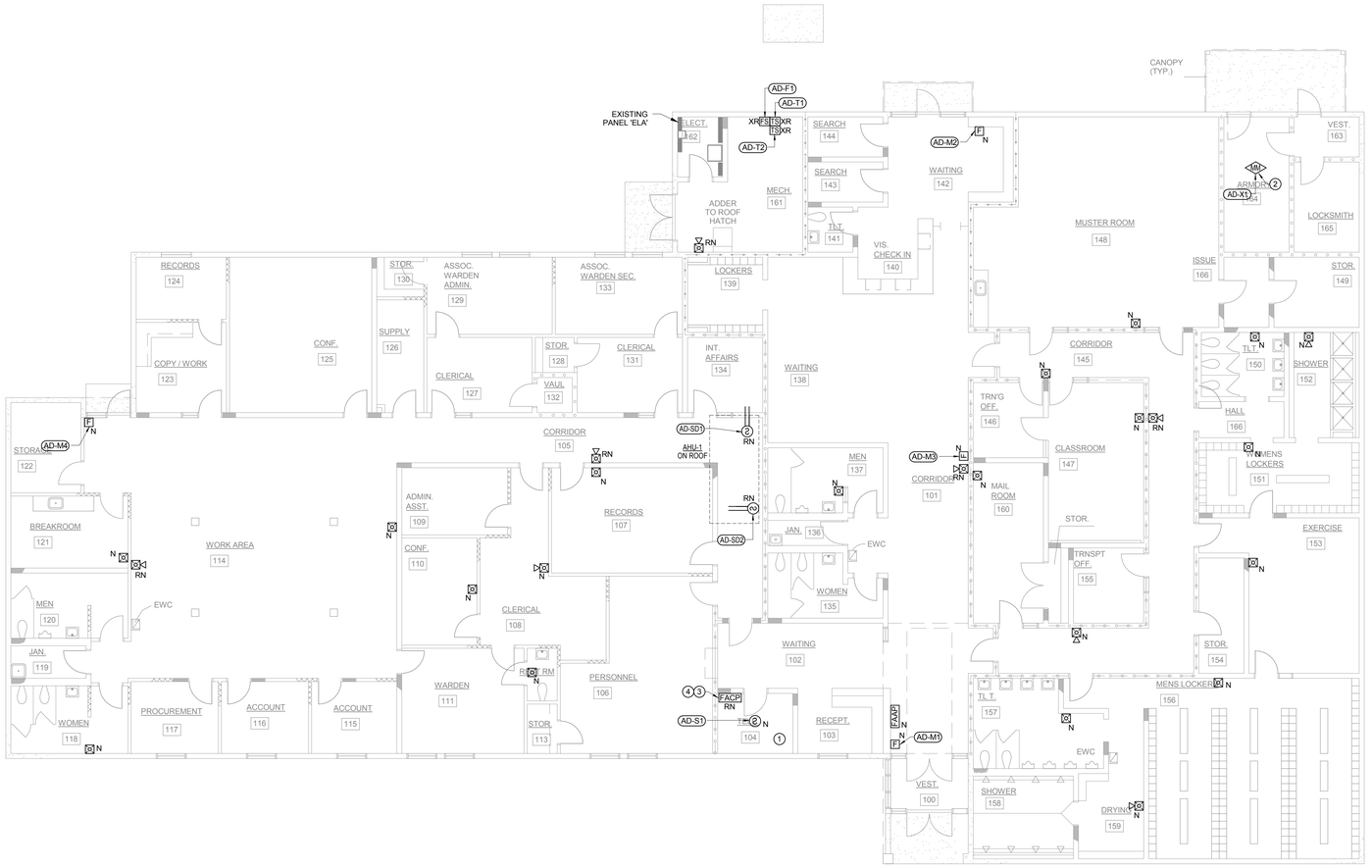


1 Facility Administration & Staff Services Building - Fire Alarm System

1/8" = 1'-0"

0 4' 8' 16'

LEGEND

	FIRE ALARM VISUAL DEVICE - STROBE ONLY
	FIRE ALARM CEILING MOUNT VISUAL DEVICE - STROBE ONLY
	FIRE ALARM AUDIO DEVICE
	FIRE ALARM AUDIO DEVICE WITH STROBE
	FIRE ALARM HORN
	FIRE ALARM HORN WITH STROBE
	FIRE ALARM CEILING MOUNT HORN WITH STROBE
F	FIRE ALARM MANUAL PULL STATION
S	FIRE ALARM SMOKE DETECTOR
H	FIRE ALARM HEAT DETECTOR SUBSCRIPT AS FOLLOWS: R=RATE OF RISE; T=FIXED TEMPERATURE
SX	FIRE ALARM DUCT SMOKE DETECTOR SUBSCRIPT AS FOLLOWS: S=SUPPLY; R=RETURN
CM	FIRE ALARM CONTROL MODULE
MM	FIRE ALARM MONITOR MODULE
RM	FIRE ALARM RELAY MODULE
FS	FLOW SWITCH
TS	TAMPER SWITCH
	MAGNETIC DOOR HOLDER
R	SMOKE DETECTOR REMOTE INDICATOR / TEST SWITCH
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
SD	SMOKE DAMPER (EXISTING TO REMAIN)
ES	ELECTRIC SHUTOFF VALVE
	EXISTING MECHANICAL EQUIPMENT
	COMBINATION MOTOR STARTER/SAFETY SWITCH
J	JUNCTION BOX
	PANELBOARD
SCP	SECURITY SYSTEM CONTROL PANEL
N	NEW DEVICE AT NEW LOCATION
RN	REPLACE EXISTING DEVICE WITH NEW DEVICE
XR	EXISTING DEVICE TO REMAIN
RX	REMOVE EXISTING DEVICE

INITIATING DEVICE IDENTIFICATION KEY

BUILDING — COUNT — DEVICE TYPE

AD	= ADMINISTRATION	F	= SPRINKLER WATERFLOW SWITCH
FM	= FACILITY MAINTENANCE/ WAREHOUSE	M	= MANUAL STATION
FS	= FOOD SERVICE	MS	= POSITION MONITOR SWITCH
HA	= HOUSING 1/2/3/4	H	= HEAT DETECTOR
HB	= HOUSING 5/6	S	= SMOKE DETECTOR
HC	= HOUSING 7/8	SD	= SMOKE DETECTOR - DUCT MOUNTED
HD	= HOUSING 9/10	T	= SPRINKLER VAVLE TAMPER SWITCH
HE	= HOUSING 11/12	X	= SPECIAL SYSTEM MONITOR
HF	= HOUSING 13/14		
HNA	= HOUSING NORTH ANNEX		
HSA	= HOUSING SOUTH ANNEX		
IN	= INDUSTRIES		
MS	= HEALTH/ MEDICAL SERVICES		
PGA	= HIGH SECURITY HOUSING PROGRAM A		
PGB	= MEDIUM SECURITY HOUSING PROGRAM B		
PGC	= MEDIUM SECURITY HOUSING PROGRAM C		
PGD	= MEDIUM SECURITY HOUSING PROGRAM D		
PS	= ACADEMIC/VOCATIONAL EDUCATION		
RS	= RECREATIONAL SERVICES		
SV	= SECURITY/ VISITATION		

FIRE ALARM SYSTEM PERFORMANCE SCHEDULE - ADMINISTRATION BUILDING A

INITIATING DEVICES ID#	DESCRIPTION	LOCATION	ACTION UPON INITIATION								REMARKS
AD-M1	MANUAL STATION	CORRIDOR - WEST EXIT	01			04					
AD-M2	MANUAL STATION	CORRIDOR - EAST EXIT	01			04					
AD-M3	MANUAL STATION	WAITING AREA	01			04					
AD-M4	MANUAL STATION	NORTHEAST EXIT	01			04					
AD-SD1	SMOKE DETECTOR - DUCT MOUNTED	AHU-1 SUPPLY AIR DUCT		02			05		09		NOTE 2.
AD-SD2	SMOKE DETECTOR - DUCT MOUNTED	AHU-1 SUPPLY RETURN DUCT		02			05		09		NOTE 2.
AD-S1	SMOKE DETECTOR - CEILING MOUNTED	TELEPHONE ROOM	01			04					
AD-T1	TAMPER SWITCH - SPRINKLER SYSTEM	SPRINKLER RISER ROOM		02							NOTE 1.
AD-T2	TAMPER SWITCH - SPRINKLER SYSTEM	SPRINKLER RISER ROOM		02							NOTE 1.
AD-T3	TAMPER SWITCH - SPRINKLER SYSTEM	POST INDICATOR VALVE		02							NOTE 1.
AD-F1	WATERFLOW SWITCH - SPRINKLER SYSTEM	SPRINKLER RISER ROOM	01			04					NOTE 1.
AD-X1	SAPPHIRE SUPPRESSION SYSTEM	ARMORY ROOM		02							NOTE 1.

ACTIONS	
AC01	ALARM CONDITION AT CONTROL PANEL
AC02	SUPERVISORY CONDITION AT CONTROL PANEL
AC03	TROUBLE CONDITION AT CONTROL PANEL
AC04	ACTIVATE NOTIFICATION DEVICES
AC05	SHUTDOWN ASSOCIATED HVAC UNIT
AC06	ACTUATE SMOKE DAMPER
AC07	INITIATE CLOSING OF SMOKE BARRIER DOOR
AC08	ACTIVATE UNIT'S SMOKE REMOVAL SYSTEM
AC09	SEND SIGNAL TO BUILDING MANAGEMENT SYSTEM
AC10	

SCHEDULE NOTES:
1 PROVIDE NEW MONITOR MODULE FOR DEVICE INTERFACE.
2 FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.
3
4
5

KEYED NOTES

1. LOCATION OF EXISTING MAINTENANCE NETWORK SWITCH AND PATCH PANEL. REPLACE EXISTING SWITCH WITH NEW UL 864 LISTED SWITCH UNIT. PROVIDE ETHERNET CONNECTION OF NEW FIRE ALARM CONTROL PANEL. COORDINATE ALL DIGITAL NETWORK WORK WITH OWNER'S INFORMATION TECHNOLOGY DIVISION.
2. PROVIDE FIRE ALARM MONITOR CONNECTION TO EXISTING 'SAPPHIRE' DRY CHEMICAL FIRE PROTECTION SYSTEM IN ARMORY ROOM.
3. PROVIDE 120V CONNECTION TO NEW FIRE ALARM CONTROL PANEL FROM THE EXISTING 120V CIRCUIT THAT PRESENTLY SERVES THE EXISTING FIRE ALARM CONTROL PANEL THAT IS BEING REMOVED. REPLACE EXISTING CIRCUIT CONDUCTORS WITH NEW AND EXTEND CIRCUIT TO NEW LOCATION AS REQUIRED. INSTALL RED HANDLE LOCK ON BRANCH CIRCUIT BREAKER & IDENTIFY BREAKER AS SERVING 'FIRE ALARM SYSTEM'.
4. NEW FIRE ALARM CONTROL PANEL SHALL COMMUNICATE DIGITALLY WITH THE NEW PROPRIETARY SUPERVISING ALARM WORKSTATION THAT IS BEING INSTALLED IN THE CENTRAL CONTROL ROOM LOCATED IN THE SECURITY/VISITATION BUILDING (SEE SHEET FA-1.13). COMMUNICATIONS SHALL BE ACCOMPLISHED BY ETHERNET CONNECTION TO THE FACILITY'S EXISTING MAINTENANCE LOCAL AREA NETWORK. COORDINATE EXISTING PATCH PANEL LOCATION, ETHERNET PORT ASSIGNMENT, IP ADDRESS ASSIGNMENT, ETC. WITH THE OWNER'S INFORMATION TECHNOLOGY DIVISION.

GENERAL NOTES

A. EXECUTE WORK SO AS TO INTERFERE AS LITTLE AS POSSIBLE WITH NORMAL FACILITY FUNCTIONS. ALL WORK SHALL BE SCHEDULED, PHASED & PERFORMED IN A MANNER SUCH THAT FIRE ALARM MONITORING, INITIATION, NOTIFICATION AND ANNUNCIATION OR FIRE WATCH SERVICE IS MAINTAINED THROUGHOUT THE FACILITY. COORDINATE ANY PERIODS DURING WHICH THE FIRE ALARM SYSTEM OR ANY PORTION THEREOF WILL BE DEACTIVATED WITH THE OWNER AND THE LOCAL FIRE DEPARTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL FIRE WATCH SERVICE WHICH MAY BE REQUIRED.

B. EACH EXISTING BUILDING'S FIRE ALARM SYSTEM SHALL REMAIN IN OPERATION DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM UNTIL SUCH TIME THAT THE BUILDING CAN BE CUT OVER FROM THE EXISTING SYSTEM TO THE NEW SYSTEM. IN LIEU OF KEEPING A BUILDING'S EXISTING FIRE ALARM SYSTEM OPERATIONAL UNTIL ITS NEW SYSTEM IS OPERATIONAL; THE CONTRACTOR MAY, IF ACCEPTABLE TO THE OWNER, PROVIDE FIRE WATCH SERVICE IN THE BUILDING FOR THE DURATION OF THE SYSTEM REPLACEMENT IN THAT BUILDING.

C. REMOVE ALL EXISTING FIRE ALARM SYSTEM WIRING. ALL NEW FIRE ALARM SYSTEM WIRING SHALL BE RUN IN NEW CONDUIT RACEWAYS UNLESS INDICATED OTHERWISE. CONDUIT SHALL BE EMT TYPE WITH COMPRESSION TYPE FITTINGS. EXISTING ABANDONED FIRE ALARM SYSTEM RACEWAYS MAY REMAIN AND MAY BE REUSED IN PLACE FOR NEW FIRE ALARM SYSTEM WIRING. ALL CONDUIT SHALL BE ATTACHED USING TWO-HOLE CONDUIT STRAPS & TAMPER RESISTANT SCREWS.

D. EXISTING RACEWAYS AND JUNCTION BOXES THAT ARE ABANDONED AS A RESULT OF THE WORK AND WILL NOT BE REUSED SHALL BE REMOVED. EXISTING CONDUCTORS IN SUCH RACEWAYS SHALL BE REMOVED BACK TO THE NEAREST "LIVE" JUNCTION BOX.

E. PAINT ALL NEW EXPOSED RACEWAYS TO MATCH SURROUNDING SURFACE. PAINT COLORS AND TYPES SHALL BE AS DIRECTED BY THE OWNER.

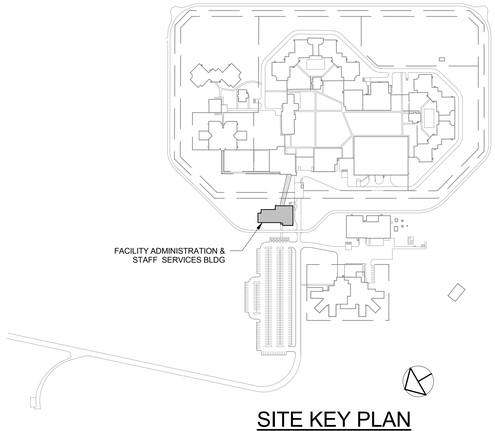
F. ALL JUNCTION, TERMINAL AND PULL BOXES (WHERE ALLOWED) INCLUDING COVERS SHALL BE PAINTED RED TO MATCH CONDUIT. ALL COVERS SHALL BE IDENTIFIED WITH PHENOLIC ENGRAVED NAME PLATE LABELED BY ZONE AND CIRCUIT CONTAINED THEREIN AND ATTACHED TO COVER WITH MINIMUM OF TWO SCREWS.

G. REPLACEMENT OF HVAC DUCT MOUNTED SMOKE DETECTORS SHALL INCLUDE DETECTOR, HOUSING & SAMPLING TUBES. FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.

H. FUNCTIONALITY OF REPLACEMENT CEILING MOUNTED SMOKE DETECTORS WITH REGARD TO SIGNALING, SHUTDOWN ACTUATION OF ASSOCIATED DOORS, SMOKE DAMPERS, ETC. SHALL REMAIN UNCHANGED.

I. NO EXISTING FIRE ALARM SYSTEMS, CONTROL PANELS, COMPONENTS OR WIRING ARE TO REMAIN (WITH THE EXCEPTION OF SPRINKLER WATERFLOW SWITCHES AND SPRINKLER VALVE TAMPER SWITCHES) REGARDLESS OF AGE OR WARRANTY STATUS.

J. FOLLOWING THEIR REMOVAL, ALL EXISTING FIRE ALARM CONTROL PANELS SHALL BE BOXED WITH PROTECTIVE BUBBLE-WRAP PACKING AND DELIVERED TO THE OWNER AT THEIR DESIGNATED ONSITE STORAGE LOCATION. EACH BOXED PANEL SHALL BE LABELED WITH THE MANUFACTURER'S NAME, MODEL NUMBER, AND THE NAME OF THE BUILDING FROM WHICH IT WAS REMOVED ALONG WITH DATE OF REMOVAL.



SITE KEY PLAN
NOT TO SCALE

SSR Smith Seckman Reid, Inc.
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FAX: (901) 683-3990
www.ssr-inc.com
SSR Project #: 17671400

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

FACILTIY ADMINISTRATION & STAFF SEVICES BUILDING - FIRE ALARM SYSTEM

DRAWN BY:	TV	
DESIGNED BY:	RH	
CHECKED BY:	RH	
PHASE:	CD	DRAWING NO:
DATE:	11-08-2019	FA-1.1

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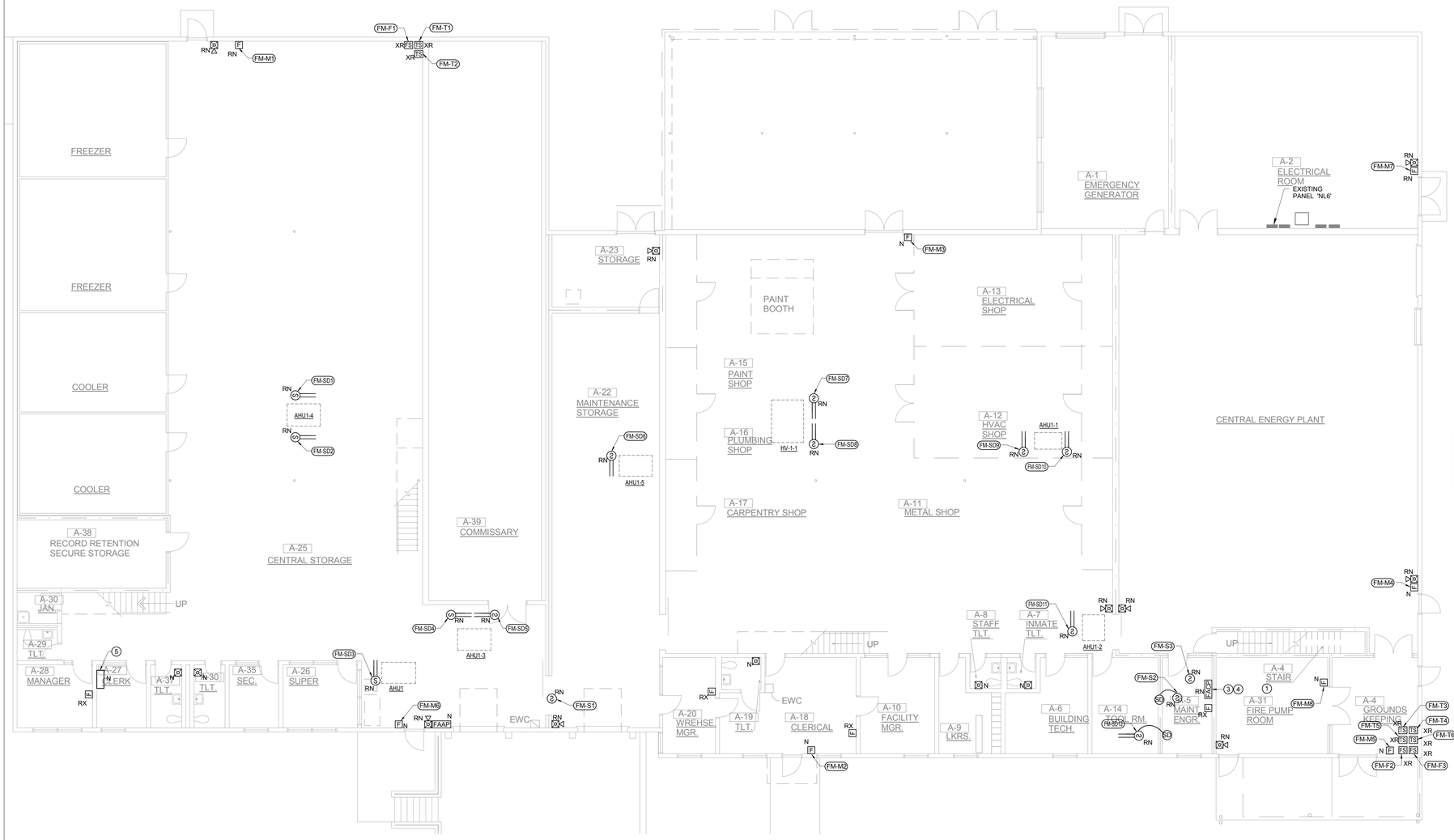

1 Facility Maintenance/ Warehouse - Fire Alarm System

1/8" = 1'-0"

0 4' 8' 16'

LEGEND

	FIRE ALARM VISUAL DEVICE - STROBE ONLY
	FIRE ALARM CEILING MOUNT VISUAL DEVICE - STROBE ONLY
	FIRE ALARM AUDIO DEVICE
	FIRE ALARM AUDIO DEVICE WITH STROBE
	FIRE ALARM HORN
	FIRE ALARM HORN WITH STROBE
	FIRE ALARM CEILING MOUNT HORN WITH STROBE
F	FIRE ALARM MANUAL PULL STATION
S	FIRE ALARM SMOKE DETECTOR
H	FIRE ALARM HEAT DETECTOR SUBSCRIPT AS FOLLOWS: R=RATE OF RISE; T=FIXED TEMPERATURE
SD X	FIRE ALARM DUCT SMOKE DETECTOR SUBSCRIPT AS FOLLOWS: S=SUPPLY; R=RETURN
CM	FIRE ALARM CONTROL MODULE
MM	FIRE ALARM MONITOR MODULE
RM	FIRE ALARM RELAY MODULE
FS	FLOW SWITCH
TS	TAMPER SWITCH
	MAGNETIC DOOR HOLDER
SD	SMOKE DETECTOR REMOTE INDICATOR / TEST SWITCH
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
SCP	SMOKE CONTROL PANEL
SDI	SMOKE DAMPER (EXISTING TO REMAIN)
ES	ELECTRIC SHUTOFF VALVE
	EXISTING MECHANICAL EQUIPMENT
	COMBINATION MOTOR STARTER/SAFETY SWITCH
J	JUNCTION BOX
	PANELBOARD
SSP	SECURITY SYSTEM CONTROL PANEL
N	NEW DEVICE AT NEW LOCATION
RN	REPLACE EXISTING DEVICE WITH NEW DEVICE
XR	EXISTING DEVICE TO REMAIN
RX	REMOVE EXISTING DEVICE

INITIATING DEVICE IDENTIFICATION KEY

BUILDING
- AD = ADMINISTRATION
- FM = FACILITY MAINTENANCE/ WAREHOUSE
- FS = FOOD SERVICE
- HA = HOUSING 1/2/3/4
- HB = HOUSING 5/6
- HC = HOUSING 7/8
- HD = HOUSING 9/10
- HE = HOUSING 11/12
- HF = HOUSING 13/14
- HNA = HOUSING NORTH ANNEX
- HSA = HOUSING SOUTH ANNEX
- IN = INDUSTRIES
- MS = HEALTH/ MEDICAL SERVICES
- PGA = HIGH SECURITY HOUSING PROGRAM A
- PGB = MEDIUM SECURITY HOUSING PROGRAM B
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- PS = ACADEMIC/VOCATIONAL EDUCATION
- RS = RECREATIONAL SERVICES
- SV = SECURITY/ VISITATION

DEVICE TYPE
- F = SPRINKLER WATERFLOW SWITCH
- M = MANUAL STATION
- MS = POSITION MONITOR SWITCH
- H = HEAT DETECTOR
- S = SMOKE DETECTOR
- SD = SMOKE DETECTOR - DUCT MOUNTED
- T = SPRINKLER VAVLE TAMPER SWITCH
- X = SPECIAL SYSTEM MONITOR

FIRE ALARM SYSTEM PERFORMANCE SCHEDULE - FACILITY MAINTENANCE BUILDING M

INITIATING DEVICES ID#	DESCRIPTION	LOCATION	ACTION UPON INITIATION								REMARKS
FM-M1	MANUAL STATION	CENTRAL STORAGE EAST EXIT	01			04					
FM-M2	MANUAL STATION	CLERICAL NORTH WEST EXIT	01			04					
FM-M3	MANUAL STATION	PAINT BOOTH EAST EXIT	01			04					
FM-M4	MANUAL STATION	CENTRAL ENERGY PLANT SOUTH EXIT	01			04					
FM-M5	MANUAL STATION	GROUNDS KEEPING WEST EXIT	01			04					
FM-M6	MANUAL STATION	CENTRAL STORAGE NORTH WEST EXIT	01			04					
FM-M7	MANUAL STATION	ELECTRICAL ROOM SOUTH EXIT	01			04					
FM-M8	MANUAL STATION	FIRE PUMP ROOM SOUTH EXIT	01			04					
FM-SD1	SMOKE DETECTOR - DUCT MOUNTED	CENTRAL STORAGE		02		05					NOTE 2.
FM-SD2	SMOKE DETECTOR - DUCT MOUNTED	CENTRAL STORAGE		02		05					NOTE 2.
FM-SD3	SMOKE DETECTOR - DUCT MOUNTED	CENTRAL STORAGE NORTH WEST		02		05					NOTE 2.
FM-SD4	SMOKE DETECTOR - DUCT MOUNTED	CENTRAL STORAGE NORTH WEST		02		05					NOTE 2.
FM-SD5	SMOKE DETECTOR - DUCT MOUNTED	CENTRAL STORAGE NORTH WEST		02		05					NOTE 2.
FM-SD6	SMOKE DETECTOR - DUCT MOUNTED	MAINTENANCE STORAGE		02		05					NOTE 2.
FM-SD7	SMOKE DETECTOR - DUCT MOUNTED	PAINT/ PLUMBING SHOP		02		05					NOTE 2.
FM-SD8	SMOKE DETECTOR - DUCT MOUNTED	PAINT/ PLUMBING SHOP		02		05					NOTE 2.
FM-SD9	SMOKE DETECTOR - DUCT MOUNTED	HVAC SHOP		02		05					NOTE 2.
FM-SD10	SMOKE DETECTOR - DUCT MOUNTED	HVAC SHOP		02		05					NOTE 2.
FM-SD11	SMOKE DETECTOR - DUCT MOUNTED	METAL SHOP		02		05					NOTE 2.
FM-SD12	SMOKE DETECTOR - DUCT MOUNTED	TOOL ROOM		02		05					NOTE 2.
FM-S1	SMOKE DETECTOR - WALL MOUNTED	MAINTENANCE STORAGE NORTH WEST	01			04					NOTE 2.
FM-S2	SMOKE DETECTOR - WALL MOUNTED	MAINTENANCE ENGINEER	01			04					NOTE 2.
FM-S3	SMOKE DETECTOR - CEILING MOUNTED	MAINTENANCE ENGINEER	01			04			06		NOTE 2.
FM-T1	TAMPER SWITCH - SPRINKLER SYSTEM	CENTRAL STORAGE SOUTH WEST		02							NOTE 1.
FM-T2	TAMPER SWITCH - SPRINKLER SYSTEM	CENTRAL STORAGE SOUTH WEST		02							NOTE 1.
FM-T3	TAMPER SWITCH - SPRINKLER SYSTEM	GROUNDS KEEPING		02							NOTE 1.
FM-T4	TAMPER SWITCH - SPRINKLER SYSTEM	GROUNDS KEEPING		02							NOTE 1.
FM-T5	TAMPER SWITCH - SPRINKLER SYSTEM	GROUNDS KEEPING		02							NOTE 1.
FM-T6	TAMPER SWITCH - SPRINKLER SYSTEM	GROUNDS KEEPING		02							NOTE 1.
FM-T7	TAMPER SWITCH - SPRINKLER SYSTEM	POST INDICATOR VALVE		02							NOTE 1.
FM-F1	WATERFLOW SWITCH - SPRINKLER SYSTEM	CENTRAL STORAGE SOUTH WEST	01			04					NOTE 1.
FM-F2	WATERFLOW SWITCH - SPRINKLER SYSTEM	GROUNDS KEEPING	01			04					NOTE 1.
FM-F3	WATERFLOW SWITCH - SPRINKLER SYSTEM	GROUNDS KEEPING	01			04					NOTE 1.

ACTIONS	
AC01	ALARM CONDITION AT CONTROL PANEL
AC02	SUPERVISORY CONDITION AT CONTROL PANEL
AC03	TROUBLE CONDITION AT CONTROL PANEL
AC04	ACTIVATE NOTIFICATION DEVICES
AC05	SHUTDOWN ASSOCIATED HVAC UNIT
AC06	ACTUATE SMOKE DAMPER
AC07	INITIATE CLOSING OF SMOKE BARRIER DOOR
AC08	ACTIVATE UNIT'S SMOKE REMOVAL SYSTEM
AC09	SEND SIGNAL TO BUILDING MANAGEMENT SYSTEM
AC10	

SCHEDULE NOTES:
1 PROVIDE NEW MONITOR MODULE FOR DEVICE INTERFACE.
2 FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND ACTUATION SHALL REMAIN UNCHANGED.
3
4
5

KEYED NOTES

1. LOCATION OF EXISTING MAINTENANCE NETWORK SWITCH AND PATCH PANEL. REPLACE EXISTING SWITCH WITH NEW UL 864 LISTED SWITCH UNIT. PROVIDE ETHERNET CONNECTION OF NEW FIRE ALARM CONTROL PANEL. COORDINATE ALL DIGITAL NETWORK WORK WITH OWNER'S INFORMATION TECHNOLOGY DIVISION..
2. INSTALL NEW REPLACEMENT DETECTOR ON WALL WITHIN 12" OF ROOF.
3. PROVIDE 120V CONNECTION TO NEW FIRE ALARM CONTROL PANEL FROM THE EXISTING 120V CIRCUIT THAT PRESENTLY SERVES THE EXISTING FIRE ALARM CONTROL PANEL THAT IS BEING REMOVED. REPLACE EXISTING CIRCUIT CONDUCTORS WITH NEW AND EXTEND CIRCUIT TO NEW LOCATION AS REQUIRED. INSTALL RED HANDLE LOCK ON BRANCH CIRCUIT BREAKER & IDENTIFY BREAKER AS SERVING 'FIRE ALARM SYSTEM'.
4. NEW FIRE ALARM CONTROL PANEL SHALL COMMUNICATE DIGITALLY WITH THE NEW PROPRIETARY SUPERVISING ALARM WORKSTATION THAT IS BEING INSTALLED IN THE CENTRAL CONTROL ROOM LOCATED IN THE SECURITY/VISITATION BUILDING (SEE SHEET FA-1.13). COMMUNICATIONS SHALL BE ACCOMPLISHED BY ETHERNET CONNECTION TO THE FACILITY'S EXISTING 'MAINTENANCE' LOCAL AREA NETWORK. COORDINATE EXISTING PATCH PANEL LOCATION, ETHERNET PORT ASSIGNMENT, IP ADDRESS ASSIGNMENT, ETC. WITH THE OWNER'S INFORMATION TECHNOLOGY DIVISION.
5. NEW SYSTEM ALARM DISPLAY PANEL. PROVIDE 120V CONNECTION TO NEW PANEL FROM EXISTING 120V PANEL 'NL6'. INSTALL RED HANDLE LOCK ON BRANCH CIRCUIT BREAKER & IDENTIFY BREAKER AS SERVING 'FIRE ALARM DISPLAY PANEL'.

GENERAL NOTES

A. EXECUTE WORK SO AS TO INTERFERE AS LITTLE AS POSSIBLE WITH NORMAL FACILITY FUNCTIONS. ALL WORK SHALL BE SCHEDULED, PHASED & PERFORMED IN A MANNER SUCH THAT FIRE ALARM MONITORING, INITIATION, NOTIFICATION AND ANNUNCIATION OR FIRE WATCH SERVICE IS MAINTAINED THROUGHOUT THE FACILITY. COORDINATE ANY PERIODS DURING WHICH THE FIRE ALARM SYSTEM OR ANY PORTION THEREOF WILL BE DEACTIVATED WITH THE OWNER AND THE LOCAL FIRE DEPARTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL FIRE WATCH SERVICE WHICH MAY BE REQUIRED.

B. EACH EXISTING BUILDING'S FIRE ALARM SYSTEM SHALL REMAIN IN OPERATION DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM UNTIL SUCH TIME THAT THE BUILDING CAN BE CUT OVER FROM THE EXISTING SYSTEM TO THE NEW SYSTEM. IN LIEU OF KEEPING A BUILDING'S EXISTING FIRE ALARM SYSTEM OPERATIONAL UNTIL ITS NEW SYSTEM IS OPERATIONAL, THE CONTRACTOR MAY, IF ACCEPTABLE TO THE OWNER, PROVIDE FIRE WATCH SERVICE IN THE BUILDING FOR THE DURATION OF THE SYSTEM REPLACEMENT IN THAT BUILDING.

C. REMOVE ALL EXISTING FIRE ALARM SYSTEM WIRING. ALL NEW FIRE ALARM SYSTEM WIRING SHALL BE RUN IN NEW CONDUIT RACEWAYS UNLESS INDICATED OTHERWISE. CONDUIT SHALL BE EMT TYPE WITH COMPRESSION TYPE FITTINGS. EXISTING ABANDONED FIRE ALARM SYSTEM RACEWAYS MAY REMAIN AND MAY BE REUSED IN PLACE FOR NEW FIRE ALARM SYSTEM WIRING. ALL CONDUIT SHALL BE ATTACHED USING TWO-HOLE CONDUIT STRAPS & TAMPER RESISTANT SCREWS.

D. EXISTING RACEWAYS AND JUNCTION BOXES THAT ARE ABANDONED AS A RESULT OF THE WORK AND WILL NOT BE REUSED SHALL BE REMOVED. EXISTING CONDUCTORS IN SUCH RACEWAYS SHALL BE REMOVED BACK TO THE NEAREST "LIVE" JUNCTION BOX.

E. PAINT ALL NEW EXPOSED RACEWAYS TO MATCH SURROUNDING SURFACE. PAINT COLORS AND TYPES SHALL BE AS DIRECTED BY THE OWNER.

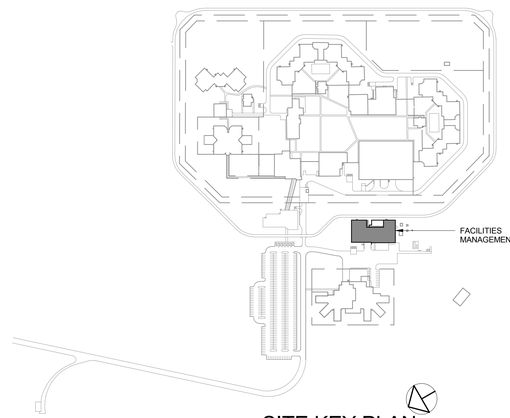
F. ALL JUNCTION, TERMINAL AND PULL BOXES (WHERE ALLOWED) INCLUDING COVERS SHALL BE PAINTED RED TO MATCH CONDUIT. ALL COVERS SHALL BE IDENTIFIED WITH PHENOLIC ENGRAVED NAME PLATE LABELED BY ZONE AND CIRCUIT CONTAINED THEREIN AND ATTACHED TO COVER WITH MINIMUM OF TWO SCREWS.

G. REPLACEMENT OF HVAC DUCT MOUNTED SMOKE DETECTORS SHALL INCLUDE DETECTOR, HOUSING & SAMPLING TUBES. FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.

H. FUNCTIONALITY OF REPLACEMENT CEILING MOUNTED SMOKE DETECTORS WITH REGARD TO SIGNALING, SHUTDOWN ACTUATION OF ASSOCIATED DOORS, SMOKE DAMPERS, ETC. SHALL REMAIN UNCHANGED.

I. NO EXISTING FIRE ALARM SYSTEMS, CONTROL PANELS, COMPONENTS OR WIRING ARE TO REMAIN (WITH THE EXCEPTION OF SPRINKLER WATERFLOW SWITCHES AND SPRINKLER VALVE TAMPER SWITCHES) REGARDLESS OF AGE OR WARRANTY STATUS.

J. FOLLOWING THEIR REMOVAL, ALL EXISTING FIRE ALARM CONTROL PANELS SHALL BE BOXED WITH PROTECTIVE BUBBLE-WRAP PACKING AND DELIVERED TO THE OWNER AT THEIR DESIGNATED ONSITE STORAGE LOCATION. EACH BOXED PANEL SHALL BE LABELED WITH THE MANUFACTURER'S NAME, MODEL NUMBER, AND THE NAME OF THE BUILDING FROM WHICH IT WAS REMOVED ALONG WITH DATE OF REMOVAL.



SITE KEY PLAN

NOT TO SCALE

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FAX: (901) 683-3990
www.ssr-inc.com
SSR Project #: 17671400

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

FACILITY MAINTENANCE/ WAREHOUSE - FIRE ALARM SYSTEM

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DESIGNED BY:	RH	
CHECKED BY:	RH	
PHASE:	CD	DRAWING NO:
DATE:	11-08-2019	FA-1.2

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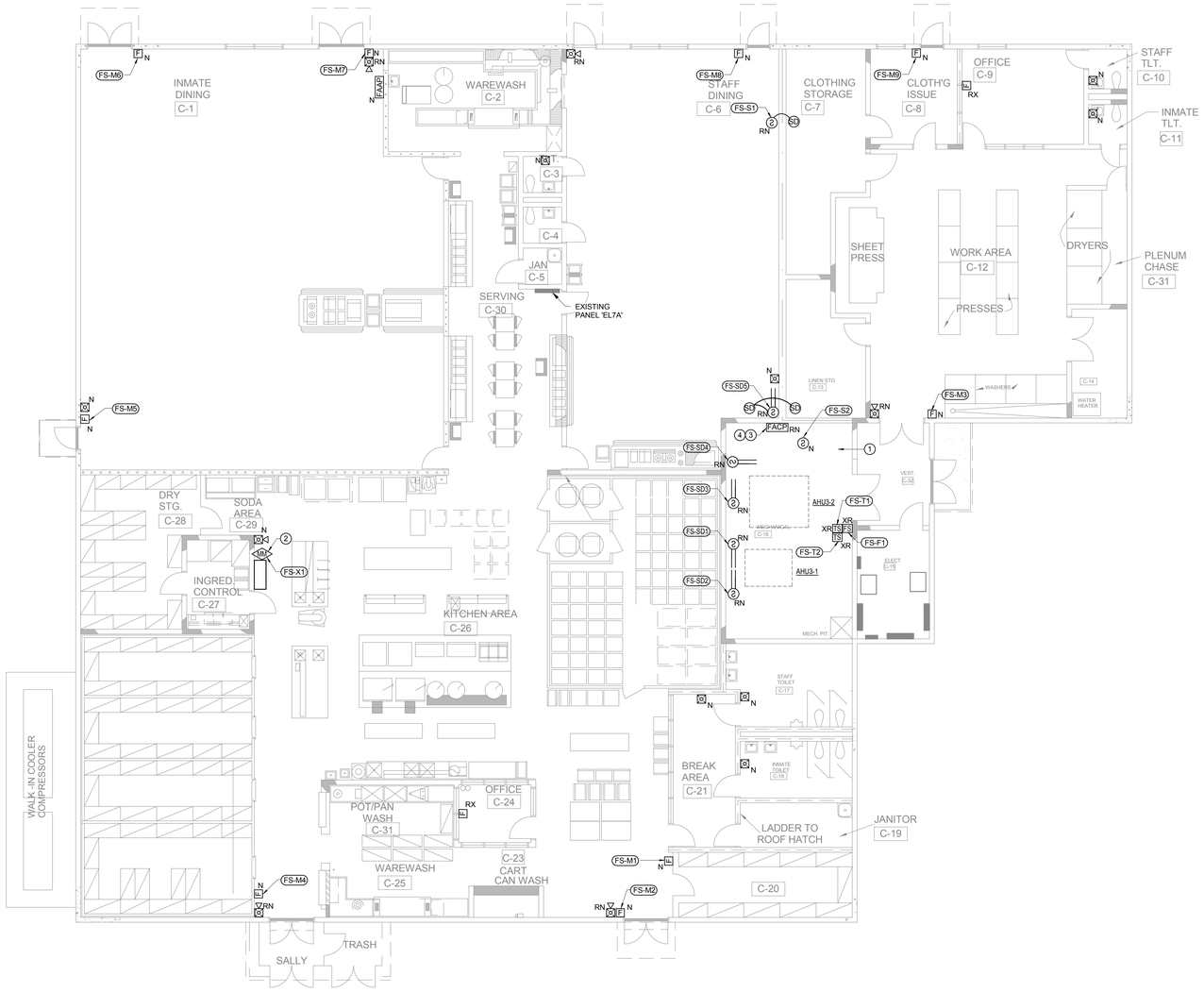

1 Food Services Building - Fire Alarm System

1/8" = 1'-0"

0 4' 8' 16'

GENERAL NOTES

A. EXECUTE WORK SO AS TO INTERFERE AS LITTLE AS POSSIBLE WITH NORMAL FACILITY FUNCTIONS. ALL WORK SHALL BE SCHEDULED, PHASED & PERFORMED IN A MANNER SUCH THAT FIRE ALARM MONITORING, INITIATION, NOTIFICATION AND ANNUNCIATION OR FIRE WATCH SERVICE IS MAINTAINED THROUGHOUT THE FACILITY. COORDINATE ANY PERIODS DURING WHICH THE FIRE ALARM SYSTEM OR ANY PORTION THEREOF WILL BE DEACTIVATED WITH THE OWNER AND THE LOCAL FIRE DEPARTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL FIRE WATCH SERVICE WHICH MAY BE REQUIRED.

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C. REMOVE ALL EXISTING FIRE ALARM SYSTEM WIRING. ALL NEW FIRE ALARM SYSTEM WIRING SHALL BE RUN IN NEW CONDUIT RACEWAYS UNLESS INDICATED OTHERWISE. CONDUIT SHALL BE EMT TYPE WITH COMPRESSION TYPE FITTINGS. EXISTING ABANDONED FIRE ALARM SYSTEM RACEWAYS MAY REMAIN AND MAY BE REUSED IN PLACE FOR NEW FIRE ALARM SYSTEM WIRING. ALL CONDUIT SHALL BE ATTACHED USING TWO-HOLE CONDUIT STRAPS & TAMPER RESISTANT SCREWS.

D. EXISTING RACEWAYS AND JUNCTION BOXES THAT ARE ABANDONED AS A RESULT OF THE WORK AND WILL NOT BE REUSED SHALL BE REMOVED. EXISTING CONDUCTORS IN SUCH RACEWAYS SHALL BE REMOVED BACK TO THE NEAREST "LIVE" JUNCTION BOX.

E. PAINT ALL NEW EXPOSED RACEWAYS TO MATCH SURROUNDING SURFACE. PAINT COLORS AND TYPES SHALL BE AS DIRECTED BY THE OWNER.

F. ALL JUNCTION, TERMINAL AND PULL BOXES (WHERE ALLOWED) INCLUDING COVERS SHALL BE PAINTED RED TO MATCH CONDUIT. ALL COVERS SHALL BE IDENTIFIED WITH PHENOLIC ENGRAVED NAME PLATE LABELED BY ZONE AND CIRCUIT CONTAINED THEREIN AND ATTACHED TO COVER WITH MINIMUM OF TWO SCREWS.

G. REPLACEMENT OF HVAC DUCT MOUNTED SMOKE DETECTORS SHALL INCLUDE DETECTOR, HOUSING & SAMPLING TUBES. FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.

H. FUNCTIONALITY OF REPLACEMENT CEILING MOUNTED SMOKE DETECTORS WITH REGARD TO SIGNALING, SHUTDOWN ACTUATION OF ASSOCIATED DOORS, SMOKE DAMPERS, ETC. SHALL REMAIN UNCHANGED.

I. NO EXISTING FIRE ALARM SYSTEMS, CONTROL PANELS, COMPONENTS OR WIRING ARE TO REMAIN (WITH THE EXCEPTION OF SPRINKLER WATERFLOW SWITCHES AND SPRINKLER VALVE TAMPER SWITCHES) REGARDLESS OF AGE OR WARRANTY STATUS.

J. FOLLOWING THEIR REMOVAL, ALL EXISTING FIRE ALARM CONTROL PANELS SHALL BE BOXED WITH PROTECTIVE BUBBLE-WRAP PACKING AND DELIVERED TO THE OWNER AT THEIR DESIGNATED ONSITE STORAGE LOCATION. EACH BOXED PANEL SHALL BE LABELED WITH THE MANUFACTURER'S NAME, MODEL NUMBER, AND THE NAME OF THE BUILDING FROM WHICH IT WAS REMOVED ALONG WITH DATE OF REMOVAL.

KEYED NOTES

1. LOCATION OF EXISTING MAINTENANCE NETWORK SWITCH AND PATCH PANEL. REPLACE EXISTING SWITCH WITH NEW UL 864 LISTED SWITCH UNIT. PROVIDE ETHERNET CONNECTION OF NEW FIRE ALARM CONTROL PANEL. COORDINATE ALL DIGITAL NETWORK WORK WITH OWNER'S INFORMATION TECHNOLOGY DIVISION.
2. PROVIDE FIRE ALARM MONITOR CONNECTION TO EXISTING KITCHEN HOOD FIRE SUPPRESSION SYSTEM.
3. PROVIDE 120V CONNECTION TO NEW FIRE ALARM CONTROL PANEL FROM THE EXISTING 120V CIRCUIT THAT PRESENTLY SERVES THE EXISTING FIRE ALARM CONTROL PANEL THAT IS BEING REMOVED. REPLACE EXISTING CIRCUIT CONDUCTORS WITH NEW AND EXTEND CIRCUIT TO NEW LOCATION AS REQUIRED. INSTALL RED HANDLE LOCK ON BRANCH CIRCUIT BREAKER & IDENTIFY BREAKER AS SERVING 'FIRE ALARM SYSTEM'.
4. NEW FIRE ALARM CONTROL PANEL SHALL COMMUNICATE DIGITALLY WITH THE NEW PROPRIETARY SUPERVISING ALARM WORKSTATION THAT IS BEING INSTALLED IN THE CENTRAL CONTROL ROOM LOCATED IN THE SECURITY/VISITATION BUILDING (SEE SHEET FA-1.13). COMMUNICATIONS SHALL BE ACCOMPLISHED BY ETHERNET CONNECTION TO THE FACILITY'S EXISTING 'MAINTENANCE' LOCAL AREA NETWORK. COORDINATE EXISTING PATCH PANEL LOCATION, ETHERNET PORT ASSIGNMENT, IP ADDRESS ASSIGNMENT, ETC. WITH THE OWNER'S INFORMATION TECHNOLOGY DIVISION.

LEGEND

	FIRE ALARM VISUAL DEVICE - STROBE ONLY
	FIRE ALARM CEILING MOUNT VISUAL DEVICE - STROBE ONLY
	FIRE ALARM AUDIO DEVICE
	FIRE ALARM AUDIO DEVICE WITH STROBE
	FIRE ALARM HORN
	FIRE ALARM HORN WITH STROBE
	FIRE ALARM CEILING MOUNT HORN WITH STROBE
F	FIRE ALARM MANUAL PULL STATION
S	FIRE ALARM SMOKE DETECTOR
H	FIRE ALARM HEAT DETECTOR SUBSCRIPT AS FOLLOWS: R=RATE OF RISE; T=FIXED TEMPERATURE
SDX	FIRE ALARM DUCT SMOKE DETECTOR SUBSCRIPT AS FOLLOWS: S=SUPPLY; R=RETURN
CM	FIRE ALARM CONTROL MODULE
MM	FIRE ALARM MONITOR MODULE
RM	FIRE ALARM RELAY MODULE
FS	FLOW SWITCH
TS	TAMPER SWITCH
	MAGNETIC DOOR HOLDER
R	SMOKE DETECTOR REMOTE INDICATOR / TEST SWITCH
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
SCP	SMOKE CONTROL PANEL
SDI	SMOKE DAMPER (EXISTING TO REMAIN)
ES	ELECTRIC SHUTOFF VALVE
	EXISTING MECHANICAL EQUIPMENT
	COMBINATION MOTOR STARTER/SAFETY SWITCH
J	JUNCTION BOX
	PANELBOARD
SCP	SECURITY SYSTEM CONTROL PANEL
N	NEW DEVICE AT NEW LOCATION
RN	REPLACE EXISTING DEVICE WITH NEW DEVICE
XR	EXISTING DEVICE TO REMAIN
RX	REMOVE EXISTING DEVICE

INITIATING DEVICE IDENTIFICATION KEY

BUILDING — COUNT — DEVICE TYPE

AD	= ADMINISTRATION	F	= SPRINKLER WATERFLOW SWITCH
FM	= FACILITY MAINTENANCE/ WAREHOUSE	M	= MANUAL STATION
FS	= FOOD SERVICE	MS	= POSITION MONITOR SWITCH
HA	= HOUSING 1/2/3/4	H	= HEAT DETECTOR
HB	= HOUSING 5/6	S	= SMOKE DETECTOR
HC	= HOUSING 7/8	SD	= SMOKE DETECTOR - DUCT MOUNTED
HD	= HOUSING 9/10	T	= SPRINKLER VAVLE TAMPER SWITCH
HE	= HOUSING 11/12	X	= SPECIAL SYSTEM MONITOR
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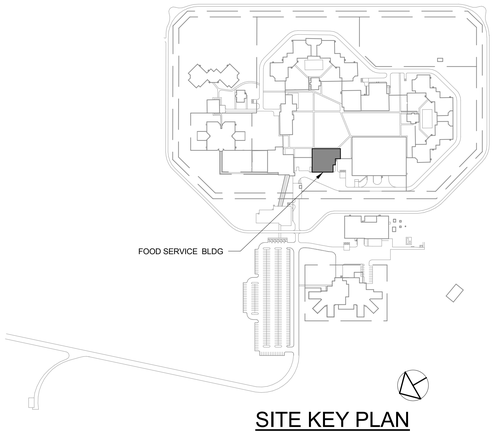
PS	= ACADEMIC/VOCATIONAL EDUCATION		
RS	= RECREATIONAL SERVICES		
SV	= SECURITY/ VISITATION		

FIRE ALARM SYSTEM PERFORMANCE SCHEDULE - FOOD SERVICES BUILDING D

INITIATING DEVICES ID#	DESCRIPTION	LOCATION	ACTION UPON INITIATION								REMARKS
FS-M1	MANUAL STATION	KITCHEN WEST	01		04						
FS-M2	MANUAL STATION	KITCHEN WEST EXIT	01		04						
FS-M3	MANUAL STATION	LAUNDRY WEST EXIT	01		04						
FS-M4	MANUAL STATION	KITCHEN - WEST EXIT	01		04						
FS-M5	MANUAL STATION	INMATE DINING - NORTH EXIT	01		04						
FS-M6	MANUAL STATION	INMATE DINING - NORTH EAST EXIT	01		04						
FS-M7	MANUAL STATION	INMATE DINING - EAST EXIT	01		04						
FS-M8	MANUAL STATION	STAFF DINING - EAST EXIT	01		04						
FS-M9	MANUAL STATION	CLOTHING ISSUE EAST EXIT	01		04						
FS-SD1	SMOKE DETECTOR - DUCT MOUNTED	AHU3-1 SUPPLY AIR DUCT		02			05			09	NOTE 2.
FS-SD2	SMOKE DETECTOR - DUCT MOUNTED	AHU3-1 RETURN AIR DUCT		02			05			09	NOTE 2.
FS-SD3	SMOKE DETECTOR - DUCT MOUNTED	AHU3-2 SUPPLY AIR DUCT		02			05			09	NOTE 2.
FS-SD4	SMOKE DETECTOR - DUCT MOUNTED	AHU3-2 RETURN AIR DUCT		02			05			09	NOTE 2.
FS-SD5	SMOKE DETECTOR - DUCT MOUNTED	STAFF DINING	01		04						NOTE 2.
FS-S1	SMOKE DETECTOR - CEILING MOUNTED	STAFF DINING	01		04						NOTE 2.
FS-S2	SMOKE DETECTOR - CEILING MOUNTED	ELECTRICAL ROOM	01		04						NOTE 2.
FS-T1	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02							NOTE 1.
FS-T2	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02							NOTE 1.
FS-T3	TAMPER SWITCH - SPRINKLER SYSTEM	POST INDICATOR VALVE		02							NOTE 1.
FS-F1	WATERFLOW SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM	01		04						NOTE 1.
FS-X1	SUPPRESSION SYSTEM - KITCHEN HOOD	KITCHEN AREA	01		04						NOTE 1.

ACTIONS	
AC01	ALARM CONDITION AT CONTROL PANEL
AC02	SUPERVISORY CONDITION AT CONTROL PANEL
AC03	TROUBLE CONDITION AT CONTROL PANEL
AC04	ACTIVATE NOTIFICATION DEVICES
AC05	SHUTDOWN ASSOCIATED HVAC UNIT
AC06	ACTUATE SMOKE DAMPER
AC07	INITIATE CLOSING OF SMOKE BARRIER DOOR
AC08	ACTIVATE UNIT'S SMOKE REMOVAL SYSTEM
AC09	SEND SIGNAL TO BUILDING MANAGEMENT SYSTEM
AC10	

SCHEDULE NOTES:
1 PROVIDE NEW MONITOR MODULE FOR DEVICE INTERFACE.
2 FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND ACTUATION SHALL REMAIN UNCHANGED.
3
4
5



SITE KEY PLAN
NOT TO SCALE

SSR Smith Seckman Reid, Inc.
2650 Thousand Oaks Boulevard,
Suite 3200
Memphis, TN 38118
(901) 683-3900
FAX: (901) 683-3990
www.ssr-inc.com
SSR Project #: 17671400

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

FOOD SERVICES BUILDING - FIRE ALARM SYSTEM

DRAWN BY:	TV	
DESIGNED BY:	RH	
CHECKED BY:	RH	
PHASE:	CD	DRAWING NO:
DATE:	11-08-2019	FA-1.3

TV
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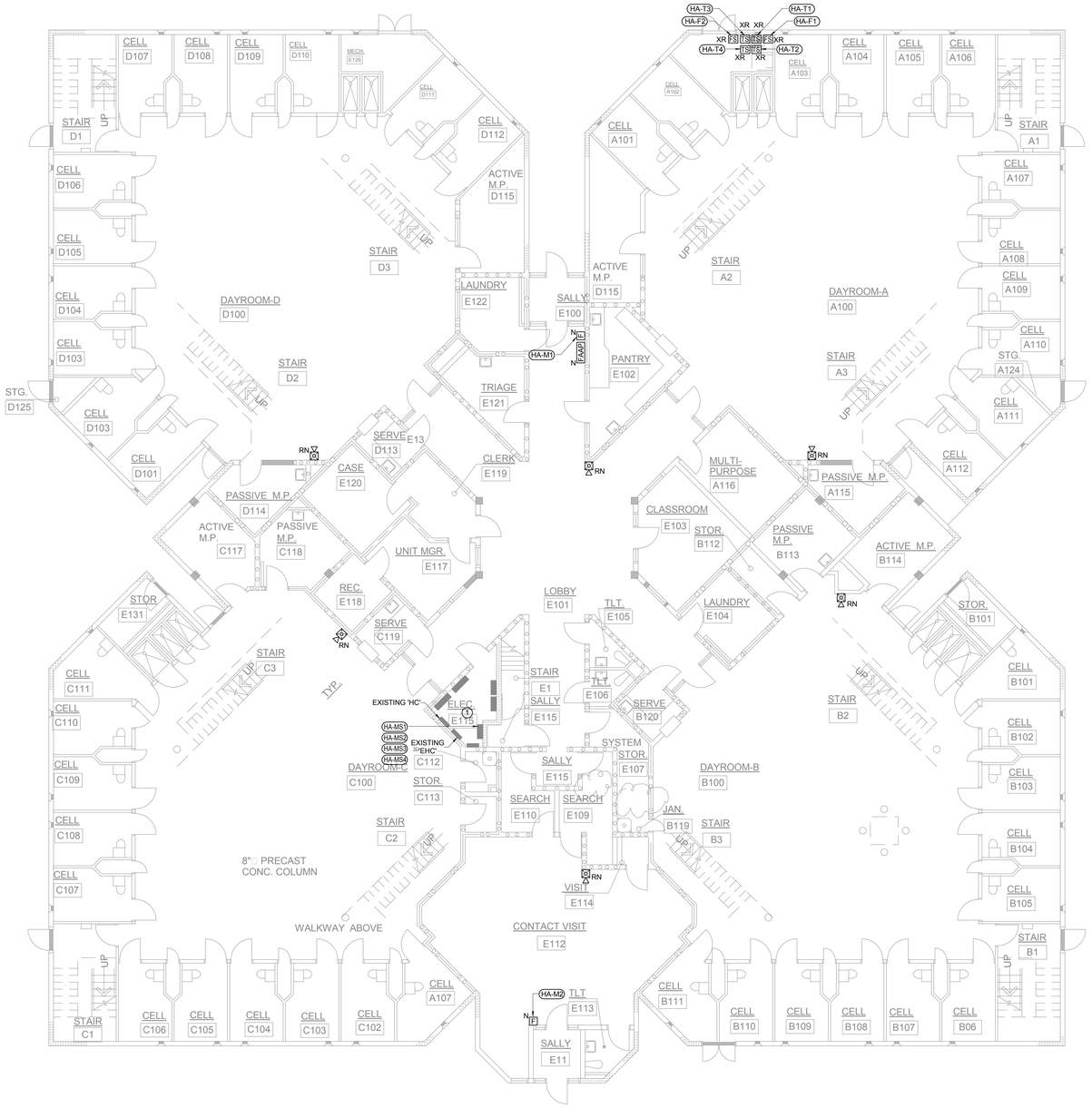

1 High Security Housing Unit 1/2/3/4 - First Floor - Fire Alarm System

1/8" = 1'-0"

0 4' 8' 16'

GENERAL NOTES

A. EXECUTE WORK SO AS TO INTERFERE AS LITTLE AS POSSIBLE WITH NORMAL FACILITY FUNCTIONS. ALL WORK SHALL BE SCHEDULED, PHASED & PERFORMED IN A MANNER SUCH THAT FIRE ALARM MONITORING, INITIATION, NOTIFICATION AND ANNUNCIATION OR FIRE WATCH SERVICE IS MAINTAINED THROUGHOUT THE FACILITY. COORDINATE ANY PERIODS DURING WHICH THE FIRE ALARM SYSTEM OR ANY PORTION THEREOF WILL BE DEACTIVATED WITH THE OWNER AND THE LOCAL FIRE DEPARTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL FIRE WATCH SERVICE WHICH MAY BE REQUIRED.

B. EACH EXISTING BUILDING'S FIRE ALARM SYSTEM SHALL REMAIN IN OPERATION DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM UNTIL SUCH TIME THAT THE BUILDING CAN BE CUT OVER FROM THE EXISTING SYSTEM TO THE NEW SYSTEM. IN LIEU OF KEEPING A BUILDING'S EXISTING FIRE ALARM SYSTEM OPERATIONAL UNTIL ITS NEW SYSTEM IS OPERATIONAL; THE CONTRACTOR MAY, IF ACCEPTABLE TO THE OWNER, PROVIDE FIRE WATCH SERVICE IN THE BUILDING FOR THE DURATION OF THE SYSTEM REPLACEMENT IN THAT BUILDING.

C. REMOVE ALL EXISTING FIRE ALARM SYSTEM WIRING. ALL NEW FIRE ALARM SYSTEM WIRING SHALL BE RUN IN NEW CONDUIT RACEWAYS UNLESS INDICATED OTHERWISE. CONDUIT SHALL BE EMT TYPE WITH COMPRESSION TYPE FITTINGS. EXISTING ABANDONED FIRE ALARM SYSTEM RACEWAYS MAY REMAIN AND MAY BE REUSED IN PLACE FOR NEW FIRE ALARM SYSTEM WIRING. ALL CONDUIT SHALL BE ATTACHED USING TWO-HOLE CONDUIT STRAPS & TAMPER RESISTANT SCREWS.

D. EXISTING RACEWAYS AND JUNCTION BOXES THAT ARE ABANDONED AS A RESULT OF THE WORK AND WILL NOT BE REUSED SHALL BE REMOVED. EXISTING CONDUCTORS IN SUCH RACEWAYS SHALL BE REMOVED BACK TO THE NEAREST "LIVE" JUNCTION BOX.

E. PAINT ALL NEW EXPOSED RACEWAYS TO MATCH SURROUNDING SURFACE. PAINT COLORS AND TYPES SHALL BE AS DIRECTED BY THE OWNER.

F. ALL JUNCTION, TERMINAL AND PULL BOXES (WHERE ALLOWED), INCLUDING COVERS SHALL BE PAINTED RED TO MATCH CONDUIT. ALL COVERS SHALL BE IDENTIFIED WITH PHENOLIC ENGRAVED NAME PLATE LABELED BY ZONE AND CIRCUIT CONTAINED THEREIN AND ATTACHED TO COVER WITH MINIMUM OF TWO SCREWS.

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PGC	= MEDIUM SECURITY HOUSING PROGRAM C		
PGD	= MEDIUM SECURITY HOUSING PROGRAM D		
PS	= ACADEMIC/VOCATIONAL EDUCATION		
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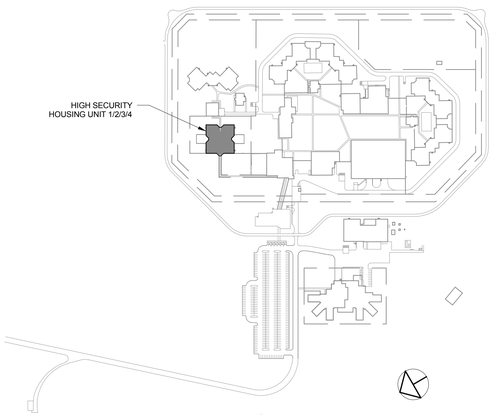

SITE KEY PLAN

NOT TO SCALE

SSR Smith Seckman Reid, Inc.
2650 Thousand Oaks Boulevard,
Suite 3200
Memphis, TN 38118
(901) 683-3900
FAX: (901) 683-3990
www.ssr-inc.com
SSR Project #: 17671400

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

HIGH SECURITY HOUSING UNIT 1/2/3/4 - FIRST FLOOR - FIRE ALARM SYSTEM

DRAWN BY:	TV		
DESIGNED BY:	RH		
CHECKED BY:	RH		
PHASE:	CD	DRAWING NO:	
DATE:	11-08-2019	FA-1.4A	

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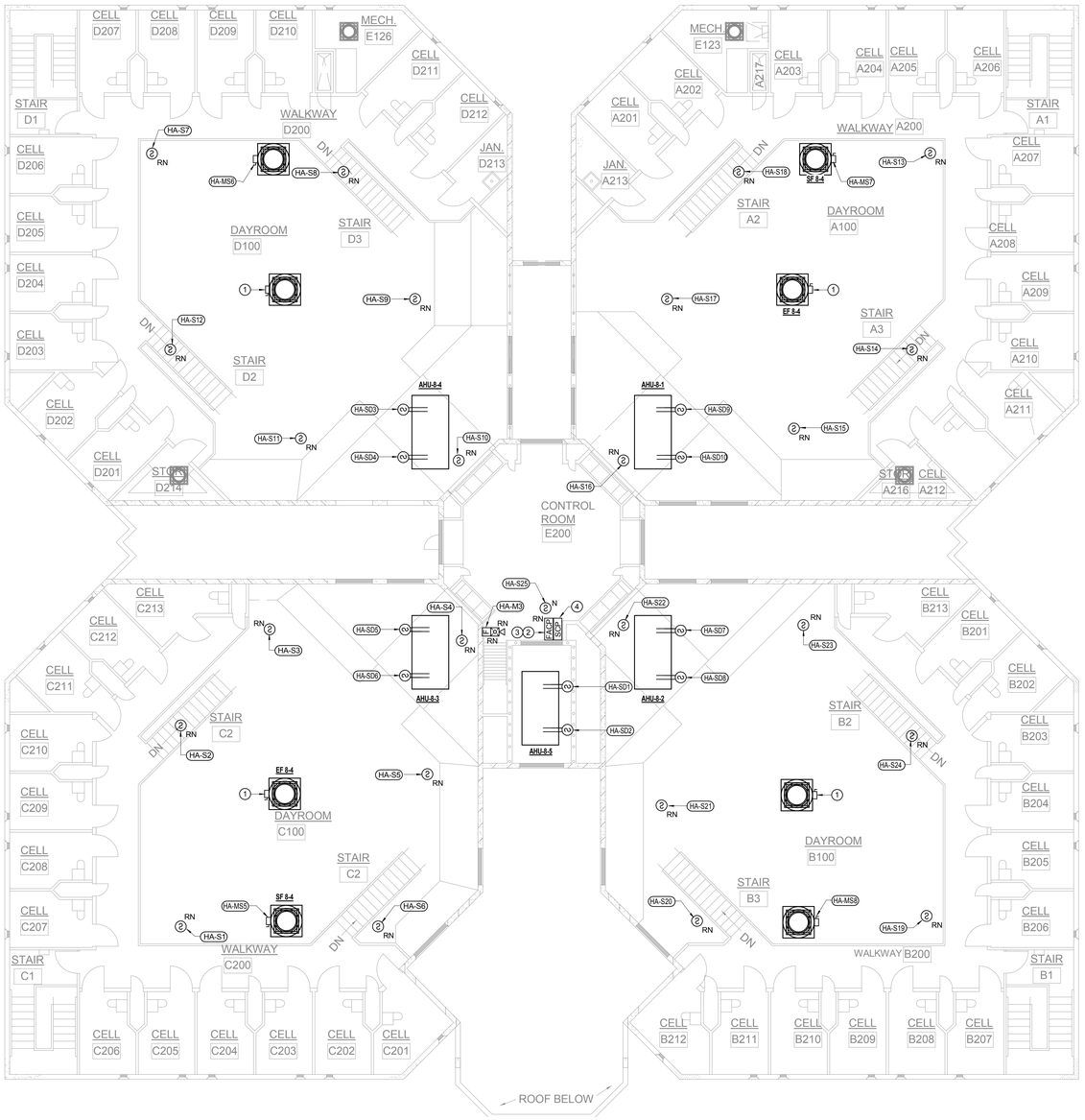

1 High Security Housing Unit 1/2/3/4 - Second Floor - Fire Alarm System

1/8" = 1'-0"

0 4' 8' 16'

GENERAL NOTES

A. EXECUTE WORK SO AS TO INTERFERE AS LITTLE AS POSSIBLE WITH NORMAL FACILITY FUNCTIONS. ALL WORK SHALL BE SCHEDULED, PHASED & PERFORMED IN A MANNER SUCH THAT FIRE ALARM MONITORING, INITIATION, NOTIFICATION AND ANNUNCIATION OR FIRE WATCH SERVICE IS MAINTAINED THROUGHOUT THE FACILITY. COORDINATE ANY PERIODS DURING WHICH THE FIRE ALARM SYSTEM OR ANY PORTION THEREOF WILL BE DEACTIVATED WITH THE OWNER AND THE LOCAL FIRE DEPARTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL FIRE WATCH SERVICE WHICH MAY BE REQUIRED.

B. EACH EXISTING BUILDING'S FIRE ALARM SYSTEM SHALL REMAIN IN OPERATION DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM UNTIL SUCH TIME THAT THE BUILDING CAN BE CUT OVER FROM THE EXISTING SYSTEM TO THE NEW SYSTEM. IN LIEU OF KEEPING A BUILDING'S EXISTING FIRE ALARM SYSTEM OPERATIONAL UNTIL ITS NEW SYSTEM IS OPERATIONAL; THE CONTRACTOR MAY, IF ACCEPTABLE TO THE OWNER, PROVIDE FIRE WATCH SERVICE IN THE BUILDING FOR THE DURATION OF THE SYSTEM REPLACEMENT IN THAT BUILDING.

C. REMOVE ALL EXISTING FIRE ALARM SYSTEM WIRING. ALL NEW FIRE ALARM SYSTEM WIRING SHALL BE RUN IN NEW CONDUIT RACEWAYS UNLESS INDICATED OTHERWISE. CONDUIT SHALL BE EMT TYPE WITH COMPRESSION TYPE FITTINGS. EXISTING ABANDONED FIRE ALARM SYSTEM RACEWAYS MAY REMAIN AND MAY BE REUSED IN PLACE FOR NEW FIRE ALARM SYSTEM WIRING. ALL CONDUIT SHALL BE ATTACHED USING TWO-HOLE CONDUIT STRAPS & TAMPER RESISTANT SCREWS.

D. EXISTING RACEWAYS AND JUNCTION BOXES THAT ARE ABANDONED AS A RESULT OF THE WORK AND WILL NOT BE REUSED SHALL BE REMOVED. EXISTING CONDUCTORS IN SUCH RACEWAYS SHALL BE REMOVED BACK TO THE NEAREST "LIVE" JUNCTION BOX.

E. PAINT ALL NEW EXPOSED RACEWAYS TO MATCH SURROUNDING SURFACE. PAINT COLORS AND TYPES SHALL BE AS DIRECTED BY THE OWNER.

F. ALL JUNCTION, TERMINAL AND PULL BOXES (WHERE ALLOWED) INCLUDING COVERS SHALL BE PAINTED RED TO MATCH CONDUIT. ALL COVERS SHALL BE IDENTIFIED WITH PHENOLIC ENGRAVED NAME PLATE LABELED BY ZONE AND CIRCUIT CONTAINED THEREIN AND ATTACHED TO COVER WITH MINIMUM OF TWO SCREWS.

G. REPLACEMENT OF HVAC DUCT MOUNTED SMOKE DETECTORS SHALL INCLUDE DETECTOR, HOUSING & SAMPLING TUBES. FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.

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KEYED NOTES

1. EXISTING SMOKE EVACUATION FAN ON ROOF. INTERLOCK FAN CONTROL WITH THE NEW BUILDING FIRE ALARM SYSTEM SO THAT WHEN DESIGNATED SMOKE DETECTORS ARE INITIATED, THE EXISTING HVAC SYSTEM'S SMOKE REMOVAL CONTROL SEQUENCE WILL BE INITIATED. INSTALL A POSITION MONITOR SWITCH ON THE EXISTING DISCONNECT SWITCH OF THE FAN AND CONNECT TO FIRE ALARM SYSTEM.

2. PROVIDE 120V CONNECTION TO NEW FIRE ALARM CONTROL PANEL FROM THE EXISTING 120V CIRCUIT THAT PRESENTLY SERVES THE EXISTING FIRE ALARM CONTROL PANEL THAT IS BEING REMOVED. REPLACE EXISTING CIRCUIT CONDUCTORS WITH NEW AND EXTEND CIRCUIT TO NEW LOCATION AS REQUIRED. INSTALL RED HANDLE LOCK ON BRANCH CIRCUIT BREAKER & IDENTIFY BREAKER AS SERVING 'FIRE ALARM SYSTEM'.

3. NEW FIRE ALARM CONTROL PANEL SHALL COMMUNICATE DIGITALLY WITH THE NEW PROPRIETARY SUPERVISING ALARM WORKSTATION THAT IS BEING INSTALLED IN THE CENTRAL CONTROL ROOM LOCATED IN THE SECURITY/VISITATION BUILDING (SEE SHEET FA-1.13). COMMUNICATIONS SHALL BE ACCOMPLISHED BY ETHERNET CONNECTION TO THE FACILITY'S EXISTING 'MAINTENANCE' LOCAL AREA NETWORK. COORDINATE EXISTING PATCH PANEL LOCATION, ETHERNET PORT ASSIGNMENT, IP ADDRESS ASSIGNMENT, ETC. WITH THE OWNER'S INFORMATION TECHNOLOGY DIVISION.

4. PROVIDE 120V CONNECTION FOR SMOKE CONTROL PANEL. COORDINATE WITH MECHANICAL.

LEGEND

⊠	FIRE ALARM VISUAL DEVICE - STROBE ONLY
⊗	FIRE ALARM CEILING MOUNT VISUAL DEVICE - STROBE ONLY
	FIRE ALARM AUDIO DEVICE
⊠	FIRE ALARM AUDIO DEVICE WITH STROBE
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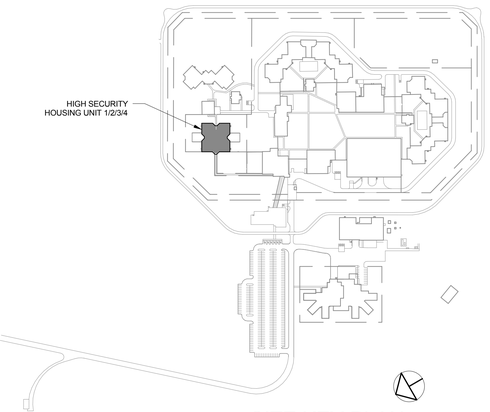

SITE KEY PLAN

NOT TO SCALE

Smith Seckman Reid, Inc.
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SSR Project #: 17671400

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

HIGH SECURITY HOUSING UNIT 1/2/3/4 - SECOND FLOOR - FIRE ALARM SYSTEM

DRAWN BY:	TV	
DESIGNED BY:	RH	
CHECKED BY:	RH	
PHASE:	CD	DRAWING NO:
DATE:	11-08-2019	FA-1.4B

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FIRE ALARM SYSTEM PERFORMANCE SCHEDULE - HSA HOUSING BUILDING 1/2/3/4

INITIATING DEVICES ID#	DESCRIPTION	LOCATION	ACTION UPON INITIATION						REMARKS
HA-M1	MANUAL STATION	FIRST FLOOR EAST EXIT	01		04		08		
HA-M2	MANUAL STATION	FIRST FLOOR WEST EXIT	01		04		08		
HA-M3	MANUAL STATION	SECOND FLOOR CONTROL ROOM	01		04		08		
HA-S1	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT C	01		04		08	09	NOTE 2.
HA-S2	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT C	01		04		08	09	NOTE 2.
HA-S3	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT C	01		04		08	09	NOTE 2.
HA-S4	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT C	01		04		08	09	NOTE 2.
HA-S5	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT C	01		04		08	09	NOTE 2.
HA-S6	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT C	01		04		08	09	NOTE 2.
HA-S7	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT D	01		04		08	09	NOTE 2.
HA-S8	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT D	01		04		08	09	NOTE 2.
HA-S9	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT D	01		04		08	09	NOTE 2.
HA-S10	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT D	01		04		08	09	NOTE 2.
HA-S11	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT D	01		04		08	09	NOTE 2.
HA-S12	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT D	01		04		08	09	NOTE 2.
HA-S13	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT A	01		04		08	09	NOTE 2.
HA-S14	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT A	01		04		08	09	NOTE 2.
HA-S15	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT A	01		04		08	09	NOTE 2.
HA-S16	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT A	01		04		08	09	NOTE 2.
HA-S17	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT A	01		04		08	09	NOTE 2.
HA-S18	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT A	01		04		08	09	NOTE 2.
HA-S19	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT B	01		04		08	09	NOTE 2.
HA-S20	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT B	01		04		08	09	NOTE 2.
HA-S21	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT B	01		04		08	09	NOTE 2.
HA-S22	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT B	01		04		08	09	NOTE 2.
HA-S23	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT B	01		04		08	09	NOTE 2.
HA-S24	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT B	01		04		08	09	NOTE 2.
HA-S25	SMOKE DETECTOR - CEILING MOUNTED	CONTROL ROOM	01		04				NOTE 2.
HA-SD1	SMOKE DETECTOR - DUCT MOUNTED	AHUB-5 SUPPLY DUCT	01		04				NOTE 2.
HA-SD2	SMOKE DETECTOR - DUCT MOUNTED	AHUB-5 RETURN DUCT	01		04				NOTE 2.
HA-SD3	SMOKE DETECTOR - DUCT MOUNTED	UNIT D, AHUB-4 SUPPLY DUCT	01		04				NOTE 2.
HA-SD4	SMOKE DETECTOR - DUCT MOUNTED	UNIT D, AHUB-4 RETURN DUCT	01		04				NOTE 2.
HA-SD5	SMOKE DETECTOR - DUCT MOUNTED	UNIT C, AHUB-3 SUPPLY DUCT	01		04				NOTE 2.
HA-SD6	SMOKE DETECTOR - DUCT MOUNTED	UNIT C, AHUB-3 RETURN DUCT	01		04				NOTE 2.
HA-SD7	SMOKE DETECTOR - DUCT MOUNTED	UNIT B, AHUB-2 SUPPLY DUCT	01		04				NOTE 2.
HA-SD8	SMOKE DETECTOR - DUCT MOUNTED	UNIT B, AHUB-2 RETURN DUCT	01		04				NOTE 2.
HA-SD9	SMOKE DETECTOR - DUCT MOUNTED	UNIT A, AHUB-1 SUPPLY DUCT	01		04				NOTE 2.
HA-SD10	SMOKE DETECTOR - DUCT MOUNTED	UNIT A, AHUB-1 RETURN DUCT	01		04				NOTE 2.
HA-T1	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02					NOTE 1.
HA-T2	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02					NOTE 1.
HA-T3	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02					NOTE 1.
HA-T4	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02					NOTE 1.
HA-T5	TAMPER SWITCH - SPRINKLER SYSTEM	POST INDICATOR VALVE		02					NOTE 1.
HA-F1	WATERFLOW SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM	01		04				NOTE 1.
HA-F2	WATERFLOW SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM	01		04				NOTE 1.
HA-MS1	POSITION MONITOR SWITCH	ELECTRICAL ROOM		02					NOTE 1.
HA-MS2	POSITION MONITOR SWITCH	ELECTRICAL ROOM		02					NOTE 1.
HA-MS3	POSITION MONITOR SWITCH	ELECTRICAL ROOM		02					NOTE 1.
HA-MS4	POSITION MONITOR SWITCH	ELECTRICAL ROOM		02					NOTE 1.
HA-MS5	POSITION MONITOR SWITCH	UNIT C SMOKE EVAC. FAN DISCONNECT		02					NOTE 1.
HA-MS6	POSITION MONITOR SWITCH	UNIT D SMOKE EVAC. FAN DISCONNECT		02					NOTE 1.
HA-MS7	POSITION MONITOR SWITCH	UNIT A SMOKE EVAC. FAN DISCONNECT		02					NOTE 1.
HA-MS8	POSITION MONITOR SWITCH	UNIT B SMOKE EVAC. FAN DISCONNECT		02					NOTE 1.

ACTIONS	
AC01	ALARM CONDITION AT CONTROL PANEL
AC02	SUPERVISORY CONDITION AT CONTROL PANEL
AC03	TROUBLE CONDITION AT CONTROL PANEL
AC04	ACTIVATE NOTIFICATION DEVICES
AC05	SHUTDOWN ASSOCIATED HVAC UNIT
AC06	ACTUATE SMOKE DAMPER
AC07	INITIATE CLOSING OF SMOKE BARRIER DOOR
AC08	ACTIVATE UNIT'S SMOKE REMOVAL SYSTEM
AC09	SEND SIGNAL TO BUILDING MANAGEMENT SYSTEM
AC10	

SCHEDULE NOTES:

1 PROVIDE NEW MONITOR MODULE FOR DEVICE INTERFACE.
2 FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.
3
4
5

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LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

HIGH SECURITY HOUSING UNIT 1/2/3/4 - FIRE ALARM SYSTEM PERFORMANCE SCHEDULE

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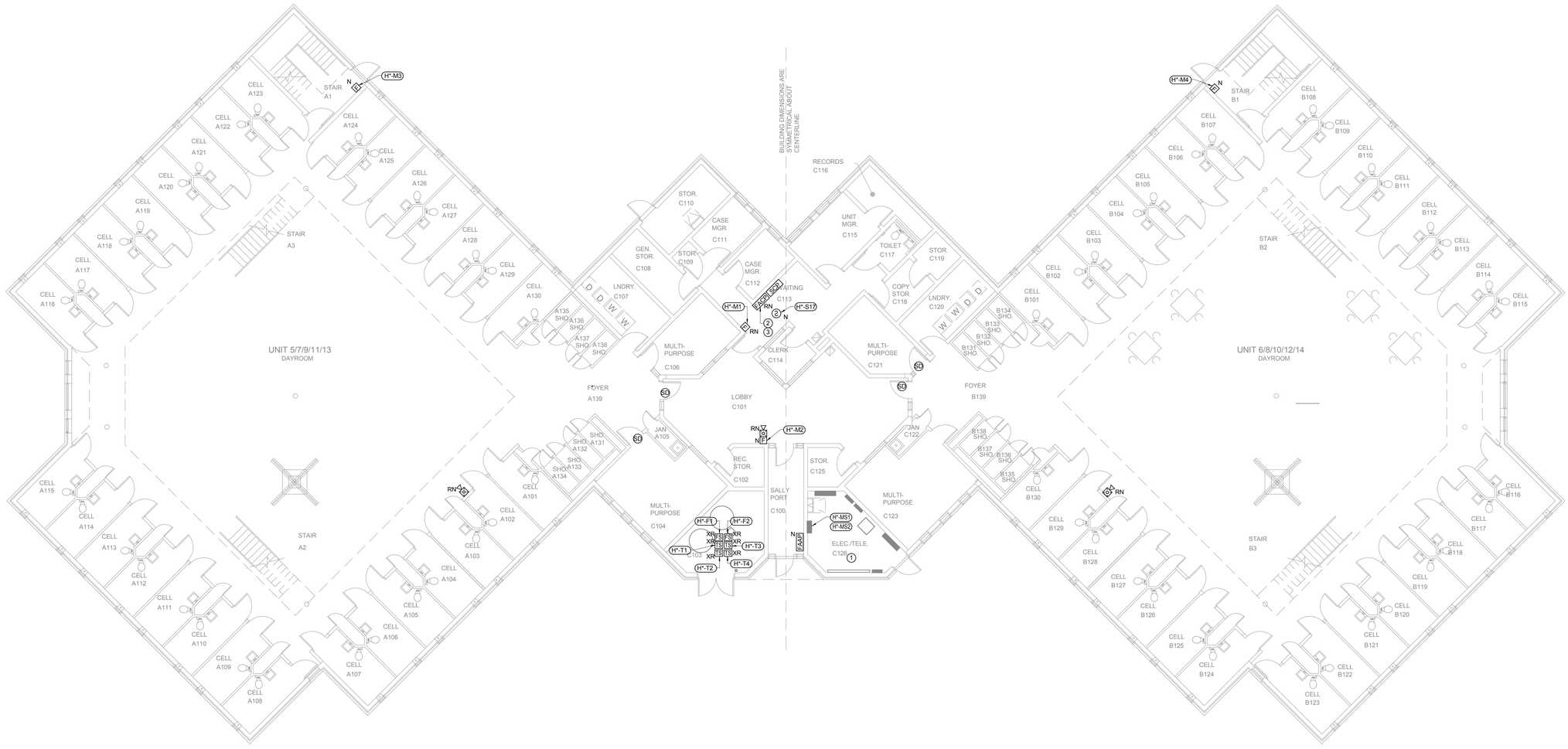


1 Medium Security Housing Unit 5/6,7/8,9/10,11/12,13/14 - First Floor - Fire Alarm System

1/8" = 1'-0"

KEYED NOTES

1. LOCATION OF EXISTING MAINTENANCE NETWORK SWITCH AND PATCH PANEL. REPLACE EXISTING SWITCH WITH NEW UL 864 LISTED SWITCH UNIT. PROVIDE ETHERNET CONNECTION OF NEW FIRE ALARM CONTROL PANEL. COORDINATE ALL DIGITAL NETWORK WORK WITH OWNER'S INFORMATION TECHNOLOGY DIVISION..
2. PROVIDE 120V CONNECTION TO NEW FIRE ALARM CONTROL PANEL FROM THE EXISTING 120V CIRCUIT THAT PRESENTLY SERVES THE EXISTING FIRE ALARM CONTROL PANEL THAT IS BEING REMOVED. REPLACE EXISTING CIRCUIT CONDUCTORS WITH NEW AND EXTEND CIRCUIT TO NEW LOCATION AS REQUIRED. INSTALL RED HANDLE LOCK ON BRANCH CIRCUIT BREAKER & IDENTIFY BREAKER AS SERVING 'FIRE ALARM SYSTEM'.
3. NEW FIRE ALARM CONTROL PANEL SHALL COMMUNICATE DIGITALLY WITH THE NEW PROPRIETARY SUPERVISING ALARM WORKSTATION THAT IS BEING INSTALLED IN THE CENTRAL CONTROL ROOM LOCATED IN THE SECURITY/VISITATION BUILDING (SEE SHEET FA-1.13). COMMUNICATIONS SHALL BE ACCOMPLISHED BY ETHERNET CONNECTION TO THE FACILITY'S EXISTING 'MAINTENANCE' LOCAL AREA NETWORK. COORDINATE EXISTING PATCH PANEL LOCATION, ETHERNET PORT ASSIGNMENT, IP ADDRESS ASSIGNMENT, ETC. WITH THE OWNER'S INFORMATION TECHNOLOGY DIVISION.

GENERAL NOTES

A. EXECUTE WORK SO AS TO INTERFERE AS LITTLE AS POSSIBLE WITH NORMAL FACILITY FUNCTIONS. ALL WORK SHALL BE SCHEDULED, PHASED & PERFORMED IN A MANNER SUCH THAT FIRE ALARM MONITORING, INITIATION, NOTIFICATION AND ANNUNCIATION OR FIRE WATCH SERVICE IS MAINTAINED THROUGHOUT THE FACILITY. COORDINATE ANY PERIODS DURING WHICH THE FIRE ALARM SYSTEM OR ANY PORTION THEREOF WILL BE DEACTIVATED WITH THE OWNER AND THE LOCAL FIRE DEPARTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL FIRE WATCH SERVICE WHICH MAY BE REQUIRED.

B. EACH EXISTING BUILDING'S FIRE ALARM SYSTEM SHALL REMAIN IN OPERATION DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM UNTIL SUCH TIME THAT THE BUILDING CAN BE CUT OVER FROM THE EXISTING SYSTEM TO THE NEW SYSTEM. IN LIEU OF KEEPING A BUILDING'S EXISTING FIRE ALARM SYSTEM OPERATIONAL UNTIL ITS NEW SYSTEM IS OPERATIONAL, THE CONTRACTOR MAY, IF ACCEPTABLE TO THE OWNER, PROVIDE FIRE WATCH SERVICE IN THE BUILDING FOR THE DURATION OF THE SYSTEM REPLACEMENT IN THAT BUILDING.

C. REMOVE ALL EXISTING FIRE ALARM SYSTEM WIRING. ALL NEW FIRE ALARM SYSTEM WIRING SHALL BE RUN IN NEW CONDUIT RACEWAYS UNLESS INDICATED OTHERWISE. CONDUIT SHALL BE EMT TYPE WITH COMPRESSION TYPE FITTINGS. EXISTING ABANDONED FIRE ALARM SYSTEM RACEWAYS MAY REMAIN AND MAY BE REUSED IN PLACE FOR NEW FIRE ALARM SYSTEM WIRING. ALL CONDUIT SHALL BE ATTACHED USING TWO-HOLE CONDUIT STRAPS & TAMPER RESISTANT SCREWS.

D. EXISTING RACEWAYS AND JUNCTION BOXES THAT ARE ABANDONED AS A RESULT OF THE WORK AND WILL NOT BE REUSED SHALL BE REMOVED. EXISTING CONDUCTORS IN SUCH RACEWAYS SHALL BE REMOVED BACK TO THE NEAREST "LIVE" JUNCTION BOX.

E. PAINT ALL NEW EXPOSED RACEWAYS TO MATCH SURROUNDING SURFACE. PAINT COLORS AND TYPES SHALL BE AS DIRECTED BY THE OWNER.

F. ALL JUNCTION, TERMINAL AND PULL BOXES (WHERE ALLOWED) INCLUDING COVERS SHALL BE PAINTED RED TO MATCH CONDUIT. ALL COVERS SHALL BE IDENTIFIED WITH PHENOLIC ENGRAVED NAME PLATE LABELED BY ZONE AND CIRCUIT CONTAINED THEREIN AND ATTACHED TO COVER WITH MINIMUM OF TWO SCREWS.

G. REPLACEMENT OF HVAC DUCT MOUNTED SMOKE DETECTORS SHALL INCLUDE DETECTOR, HOUSING & SAMPLING TUBES. FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.

H. FUNCTIONALITY OF REPLACEMENT CEILING MOUNTED SMOKE DETECTORS WITH REGARD TO SIGNALING, SHUTDOWN ACTUATION OF ASSOCIATED DOORS, SMOKE DAMPERS, ETC. SHALL REMAIN UNCHANGED.

I. NO EXISTING FIRE ALARM SYSTEMS, CONTROL PANELS, COMPONENTS OR WIRING ARE TO REMAIN (WITH THE EXCEPTION OF SPRINKLER WATERFLOW SWITCHES AND SPRINKLER VALVE TAMPER SWITCHES) REGARDLESS OF AGE OR WARRANTY STATUS.

J. FOLLOWING THEIR REMOVAL, ALL EXISTING FIRE ALARM CONTROL PANELS SHALL BE BOXED WITH PROTECTIVE BUBBLE-WRAP PACKING AND DELIVERED TO THE OWNER AT THEIR DESIGNATED ONSITE STORAGE LOCATION. EACH BOXED PANEL SHALL BE LABELED WITH THE MANUFACTURER'S NAME, MODEL NUMBER, AND THE NAME OF THE BUILDING FROM WHICH IT WAS REMOVED ALONG WITH DATE OF REMOVAL.

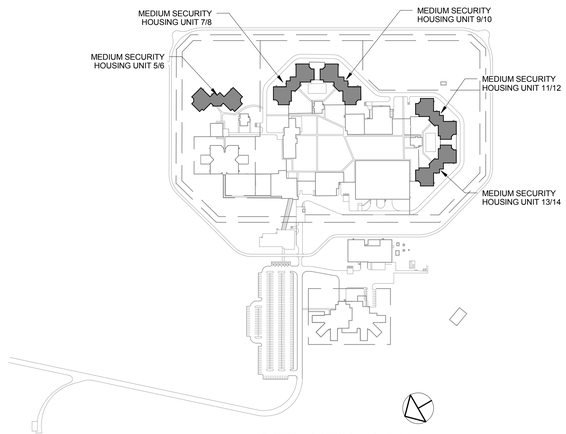
INITIATING DEVICE IDENTIFICATION KEY

BUILDING — COUNT — DEVICE TYPE

AD	= ADMINISTRATION	F	= SPRINKLER WATERFLOW SWITCH
FM	= FACILITY MAINTENANCE/ WAREHOUSE	M	= MANUAL STATION
FS	= FOOD SERVICE	MS	= POSITION MONITOR SWITCH
HA	= HOUSING 1/2/3/4	H	= HEAT DETECTOR
HB	= HOUSING 5/6	S	= SMOKE DETECTOR
HC	= HOUSING 7/8	SD	= SMOKE DETECTOR - DUCT MOUNTED
HD	= HOUSING 9/10	T	= SPRINKLER VAVLE TAMPER SWITCH
HE	= HOUSING 11/12	X	= SPECIAL SYSTEM MONITOR
HF	= HOUSING 13/14		
HNA	= HOUSING NORTH ANNEX		
HSA	= HOUSING SOUTH ANNEX		
IN	= INDUSTRIES		
MS	= HEALTH/ MEDICAL SERVICES		
PGA	= HIGH SECURITY HOUSING PROGRAM A		
PGB	= MEDIUM SECURITY HOUSING PROGRAM B		
PGC	= MEDIUM SECURITY HOUSING PROGRAM C		
PGD	= MEDIUM SECURITY HOUSING PROGRAM D		
PS	= ACADEMIC/VOCATIONAL EDUCATION		
RS	= RECREATIONAL SERVICES		
SV	= SECURITY/ VISITATION		

LEGEND

	FIRE ALARM VISUAL DEVICE - STROBE ONLY
	FIRE ALARM CEILING MOUNT VISUAL DEVICE - STROBE ONLY
	FIRE ALARM AUDIO DEVICE
	FIRE ALARM AUDIO DEVICE WITH STROBE
	FIRE ALARM HORN
	FIRE ALARM HORN WITH STROBE
	FIRE ALARM CEILING MOUNT HORN WITH STROBE
F	FIRE ALARM MANUAL PULL STATION
S	FIRE ALARM SMOKE DETECTOR
H	FIRE ALARM HEAT DETECTOR SUBSCRIPT AS FOLLOWS: R=RATE OF RISE; T=FIXED TEMPERATURE
SD X	FIRE ALARM DUCT SMOKE DETECTOR SUBSCRIPT AS FOLLOWS: S=SUPPLY; R=RETURN
CM	FIRE ALARM CONTROL MODULE
MM	FIRE ALARM MONITOR MODULE
RM	FIRE ALARM RELAY MODULE
FS	FLOW SWITCH
TS	TAMPER SWITCH
	MAGNETIC DOOR HOLDER
RI	SMOKE DETECTOR REMOTE INDICATOR / TEST SWITCH
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
SCP	SMOKE CONTROL PANEL
SDI	SMOKE DAMPER (EXISTING TO REMAIN)
ES	ELECTRIC SHUTOFF VALVE
	EXISTING MECHANICAL EQUIPMENT
	COMBINATION MOTOR STARTER/SAFETY SWITCH
	JUNCTION BOX
	PANELBOARD
SCP	SECURITY SYSTEM CONTROL PANEL
N	NEW DEVICE AT NEW LOCATION
RN	REPLACE EXISTING DEVICE WITH NEW DEVICE
XR	EXISTING DEVICE TO REMAIN
RX	REMOVE EXISTING DEVICE



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LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

MEDIUM SECURITY HOUSING UNIT 5/6,7/8,9/10,11/12,13/14 - FIRST FLOOR - FIRE ALARM SYSTEM

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DESIGNED BY:	RH	
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PHASE:	CD	DRAWING NO:
DATE:	11-08-2019	FA-1.5A

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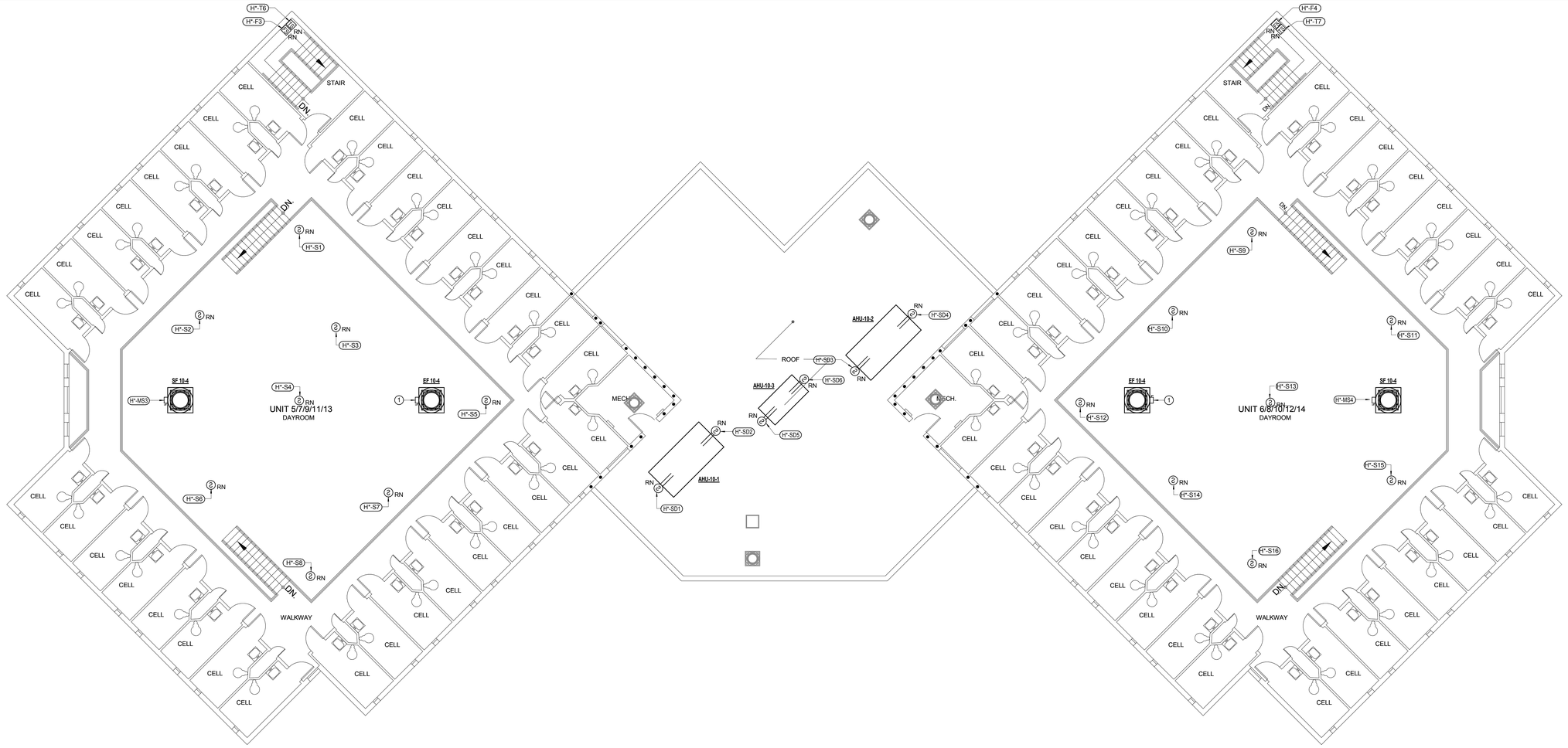

1 Medium Security Housing Unit 5/6,7/8,9/10,11/12,13/14 - Second Floor - Fire Alarm System

1/8" = 1'-0"

KEYED NOTES

1. EXISTING SMOKE EVACUATION FAN ON ROOF. INTERLOCK FAN CONTROL WITH THE NEW BUILDING FIRE ALARM SYSTEM SO THAT WHEN DESIGNATED SMOKE DETECTORS ARE INITIATED, THE EXISTING HVAC SYSTEM'S SMOKE REMOVAL CONTROL SEQUENCE WILL BE INITIATED. INSTALL A POSITION MONITOR SWITCH ON THE EXISTING DISCONNECT SWITCH OF THE FAN AND CONNECT TO FIRE ALARM SYSTEM.

GENERAL NOTES

A. EXECUTE WORK SO AS TO INTERFERE AS LITTLE AS POSSIBLE WITH NORMAL FACILITY FUNCTIONS. ALL WORK SHALL BE SCHEDULED, PHASED & PERFORMED IN A MANNER SUCH THAT FIRE ALARM MONITORING, INITIATION, NOTIFICATION AND ANNUNCIATION OR FIRE WATCH SERVICE IS MAINTAINED THROUGHOUT THE FACILITY. COORDINATE ANY PERIODS DURING WHICH THE FIRE ALARM SYSTEM OR ANY PORTION THEREOF WILL BE DEACTIVATED WITH THE OWNER AND THE LOCAL FIRE DEPARTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL FIRE WATCH SERVICE WHICH MAY BE REQUIRED.

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	PANELBOARD
SP	SECURITY SYSTEM CONTROL PANEL
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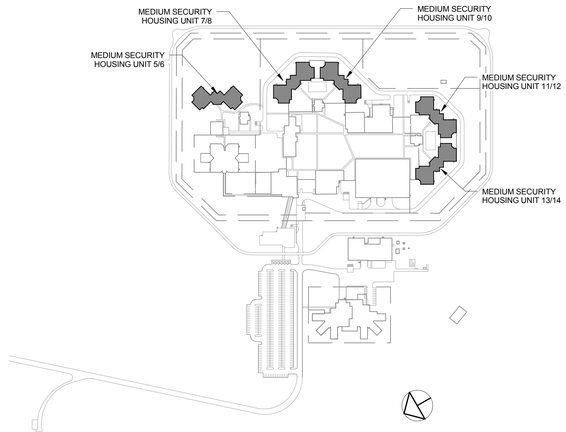
XR	EXISTING DEVICE TO REMAIN
RX	REMOVE EXISTING DEVICE



SITE KEY PLAN

NOT TO SCALE

SSR Smith Seckman Reid, Inc.
2650 Thousand Oaks Boulevard,
Suite 3200
Memphis, TN 38118
(901) 683-3900
FAX: (901) 683-3990
www.ssr-inc.com
SSR Project #: 17671400

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

MEDIUM SECURITY HOUSING UNIT 5/6,7/8,9/10,11/12,13/14 - SECOND FLOOR - FIRE ALARM SYSTEM

DRAWN BY:	TV	
DESIGNED BY:	RH	
CHECKED BY:	RH	
PHASE:	CD	DRAWING NO:
DATE:	11-08-2019	FA-1.5B

11/8/2019 11:07:51 AM C:\Users\tvann\Documents\SSR_ELEC_TDOC SCCF Life Safety-2015_tvann.rvt TV

FIRE ALARM SYSTEM PERFORMANCE SCHEDULE - HOUSING BUILDING 5/6

INITIATING DEVICES

ID#	DESCRIPTION	LOCATION	ACTION UPON INITIATION									REMARKS
HB-M1	MANUAL STATION	WAITING AREA	01			04				08		
HB-M2	MANUAL STATION	LOBBY	01			04				08		
HB-M3	MANUAL STATION	UNITS 5/7//9/11/13 FIRST FLOOR STAIRWAY EXIT	01			04				08		
HB-M4	MANUAL STATION	UNITS 6/8//10/12/14 FIRST FLOOR STAIRWAY EXIT	01			04				08		
HB-S1	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HB-S2	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HB-S3	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HB-S4	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HB-S5	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HB-S6	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HB-S7	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HB-S8	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HB-S9	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HB-S10	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HB-S11	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HB-S12	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HB-S13	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HB-S56	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HB-S15	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HB-S16	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HB-S17	SMOKE DETECTOR - CEILING MOUNTED	WAITING AREA	01			04				08		NOTE 2.
HB-SD1	SMOKE DETECTOR - DUCT MOUNTED	UNITS 5/7//9/11/13, AHU-10-1, SUPPLY AIR DUCT	01			04				08		NOTE 2.
HB-SD2	SMOKE DETECTOR - DUCT MOUNTED	UNITS 5/7//9/11/13, AHU-10-1, RETURN AIR DUCT	01			04				08		NOTE 2.
HB-SD3	SMOKE DETECTOR - DUCT MOUNTED	UNITS 6/8/10/12/14, AHU-10-2, SUPPLY AIR DUCT	01			04				08		NOTE 2.
HB-SD4	SMOKE DETECTOR - DUCT MOUNTED	UNITS 6/8/10/12/14, AHU-10-2, RETURN AIR DUCT	01			04				08		NOTE 2.
HB-SD5	SMOKE DETECTOR - DUCT MOUNTED	AHU-10-3, SUPPLY AIR DUCT	01			04				08		NOTE 2.
HB-SD6	SMOKE DETECTOR - DUCT MOUNTED	AHU-10-3, RETURN AIR DUCT	01			04				08		NOTE 2.
HB-T1	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02								NOTE 1.
HB-T2	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02								NOTE 1.
HB-T3	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02								NOTE 1.
HB-T4	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02								NOTE 1.
HB-T5	TAMPER SWITCH - SPRINKLER SYSTEM	POST INDICATOR VALVE		02								NOTE 1.
HB-T6	TAMPER SWITCH - SPRINKLER SYSTEM	UNITS 5/7//9/11/13 SECOND FLOOR STAIRWAY		02								NOTE 1.
HB-T7	TAMPER SWITCH - SPRINKLER SYSTEM	UNITS 6/8//10/12/14 SECOND FLOOR STAIRWAY		02								NOTE 1.
HB-F1	WATERFLOW SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM	01			04						NOTE 1.
HB-F2	WATERFLOW SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM	01			04						NOTE 1.
HB-F3	WATERFLOW SWITCH - SPRINKLER SYSTEM	UNITS 5/7//9/11/13 SECOND FLOOR STAIRWAY	01			04						NOTE 1.
HB-F4	WATERFLOW SWITCH - SPRINKLER SYSTEM	UNITS 6/8//10/12/14 SECOND FLOOR STAIRWAY	01			04						NOTE 1.
HB-MS1	POSITION MONITOR SWITCH	ELECTRICAL ROOM		02								NOTE 1.
HB-MS2	POSITION MONITOR SWITCH	ELECTRICAL ROOM		02								NOTE 1.
HB-MS3	POSITION MONITOR SWITCH	UNITS 5/7//9/11/13 SMOKE EVAC. FAN DISCONNECT		02								NOTE 1.
HB-MS4	POSITION MONITOR SWITCH	UNITS 6/8//10/12/14 SMOKE EVAC. FAN DISCONNECT		02								NOTE 1.

ACTIONS	
AC01	ALARM CONDITION AT CONTROL PANEL
AC02	SUPERVISORY CONDITION AT CONTROL PANEL
AC03	TROUBLE CONDITION AT CONTROL PANEL
AC04	ACTIVATE NOTIFICATION DEVICES
AC05	SHUTDOWN ASSOCIATED HVAC UNIT
AC06	ACTUATE SMOKE DAMPER
AC07	INITIATE CLOSING OF SMOKE BARRIER DOOR
AC08	ACTIVATE UNIT'S SMOKE REMOVAL SYSTEM
AC09	SEND SIGNAL TO BUILDING MANAGEMENT SYSTEM
AC10	

SCHEDULE NOTES:
1 PROVIDE NEW MONITOR MODULE FOR DEVICE INTERFACE.
2 FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.
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FIRE ALARM SYSTEM PERFORMANCE SCHEDULE - HOUSING BUILDING 7/8

INITIATING DEVICES

ID#	DESCRIPTION	LOCATION	ACTION UPON INITIATION									REMARKS
HC-M1	MANUAL STATION	WAITING AREA	01			04				08		
HC-M2	MANUAL STATION	LOBBY	01			04				08		
HC-M3	MANUAL STATION	UNITS 5/7//9/11/13 FIRST FLOOR STAIRWAY EXIT	01			04				08		
HC-M4	MANUAL STATION	UNITS 6/8//10/12/14 FIRST FLOOR STAIRWAY EXIT	01			04				08		
HC-S1	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HC-S2	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HC-S3	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HC-S4	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HC-S5	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HC-S6	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HC-S7	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HC-S8	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HC-S9	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HC-S10	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HC-S11	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HC-S12	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HC-S13	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HC-S56	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HC-S15	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HC-S16	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HC-S17	SMOKE DETECTOR - CEILING MOUNTED	WAITING AREA	01			04				08		NOTE 2.
HC-SD1	SMOKE DETECTOR - DUCT MOUNTED	UNITS 5/7//9/11/13, AHU-10-1, SUPPLY AIR DUCT	01			04				08		NOTE 2.
HC-SD2	SMOKE DETECTOR - DUCT MOUNTED	UNITS 5/7//9/11/13, AHU-10-1, RETURN AIR DUCT	01			04				08		NOTE 2.
HC-SD3	SMOKE DETECTOR - DUCT MOUNTED	UNITS 6/8/10/12/14, AHU-10-2, SUPPLY AIR DUCT	01			04				08		NOTE 2.
HC-SD4	SMOKE DETECTOR - DUCT MOUNTED	UNITS 6/8/10/12/14, AHU-10-2, RETURN AIR DUCT	01			04				08		NOTE 2.
HC-SD5	SMOKE DETECTOR - DUCT MOUNTED	AHU-10-3, SUPPLY AIR DUCT	01			04				08		NOTE 2.
HC-SD6	SMOKE DETECTOR - DUCT MOUNTED	AHU-10-3, RETURN AIR DUCT	01			04				08		NOTE 2.
HC-T1	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02								NOTE 1.
HC-T2	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02								NOTE 1.
HC-T3	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02								NOTE 1.
HC-T4	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02								NOTE 1.
HC-T5	TAMPER SWITCH - SPRINKLER SYSTEM	POST INDICATOR VALVE		02								NOTE 1.
HC-T6	TAMPER SWITCH - SPRINKLER SYSTEM	UNITS 5/7//9/11/13 SECOND FLOOR STAIRWAY		02								NOTE 1.
HC-T7	TAMPER SWITCH - SPRINKLER SYSTEM	UNITS 6/8//10/12/14 SECOND FLOOR STAIRWAY		02								NOTE 1.
HC-F1	WATERFLOW SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM	01			04						NOTE 1.
HC-F2	WATERFLOW SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM	01			04						NOTE 1.
HC-F3	WATERFLOW SWITCH - SPRINKLER SYSTEM	UNITS 5/7//9/11/13 SECOND FLOOR STAIRWAY	01			04						NOTE 1.
HC-F4	WATERFLOW SWITCH - SPRINKLER SYSTEM	UNITS 6/8//10/12/14 SECOND FLOOR STAIRWAY	01			04						NOTE 1.
HC-MS1	POSITION MONITOR SWITCH	ELECTRICAL ROOM		02								NOTE 1.
HC-MS2	POSITION MONITOR SWITCH	ELECTRICAL ROOM		02								NOTE 1.
HC-MS3	POSITION MONITOR SWITCH	UNITS 5/7//9/11/13 SMOKE EVAC. FAN DISCONNECT		02								NOTE 1.
HC-MS4	POSITION MONITOR SWITCH	UNITS 6/8//10/12/14 SMOKE EVAC. FAN DISCONNECT		02								NOTE 1.

ACTIONS	
AC01	ALARM CONDITION AT CONTROL PANEL
AC02	SUPERVISORY CONDITION AT CONTROL PANEL
AC03	TROUBLE CONDITION AT CONTROL PANEL
AC04	ACTIVATE NOTIFICATION DEVICES
AC05	SHUTDOWN ASSOCIATED HVAC UNIT
AC06	ACTUATE SMOKE DAMPER
AC07	INITIATE CLOSING OF SMOKE BARRIER DOOR
AC08	ACTIVATE UNIT'S SMOKE REMOVAL SYSTEM
AC09	SEND SIGNAL TO BUILDING MANAGEMENT SYSTEM
AC10	

SCHEDULE NOTES:
1 PROVIDE NEW MONITOR MODULE FOR DEVICE INTERFACE.
2 FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.
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FIRE ALARM SYSTEM PERFORMANCE SCHEDULE - HOUSING BUILDING 9/10

INITIATING DEVICES

ID#	DESCRIPTION	LOCATION	ACTION UPON INITIATION									REMARKS
HD-M1	MANUAL STATION	WAITING AREA	01			04				08		
HD-M2	MANUAL STATION	LOBBY	01			04				08		
HD-M3	MANUAL STATION	UNITS 5/7//9/11/13 FIRST FLOOR STAIRWAY EXIT	01			04				08		
HD-M4	MANUAL STATION	UNITS 6/8//10/12/14 FIRST FLOOR STAIRWAY EXIT	01			04				08		
HD-S1	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HD-S2	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HD-S3	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HD-S4	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HD-S5	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HD-S6	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HD-S7	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HD-S8	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HD-S9	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HD-S10	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HD-S11	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HD-S12	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HD-S13	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HD-S56	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HD-S15	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HD-S16	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HD-S17	SMOKE DETECTOR - CEILING MOUNTED	WAITING AREA	01			04				08		NOTE 2.
HD-SD1	SMOKE DETECTOR - DUCT MOUNTED	UNITS 5/7//9/11/13, AHU-10-1, SUPPLY AIR DUCT	01			04				08		NOTE 2.
HD-SD2	SMOKE DETECTOR - DUCT MOUNTED	UNITS 5/7//9/11/13, AHU-10-1, RETURN AIR DUCT	01			04				08		NOTE 2.
HD-SD3	SMOKE DETECTOR - DUCT MOUNTED	UNITS 6/8/10/12/14, AHU-10-2, SUPPLY AIR DUCT	01			04				08		NOTE 2.
HD-SD4	SMOKE DETECTOR - DUCT MOUNTED	UNITS 6/8/10/12/14, AHU-10-2, RETURN AIR DUCT	01			04				08		NOTE 2.
HD-SD5	SMOKE DETECTOR - DUCT MOUNTED	AHU-10-3, SUPPLY AIR DUCT	01			04				08		NOTE 2.
HD-SD6	SMOKE DETECTOR - DUCT MOUNTED	AHU-10-3, RETURN AIR DUCT	01			04				08		NOTE 2.
HD-T1	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02								NOTE 1.
HD-T2	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02								NOTE 1.
HD-T3	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02								NOTE 1.
HD-T4	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02								NOTE 1.
HD-T5	TAMPER SWITCH - SPRINKLER SYSTEM	POST INDICATOR VALVE		02								NOTE 1.
HD-T6	TAMPER SWITCH - SPRINKLER SYSTEM	UNITS 5/7//9/11/13 SECOND FLOOR STAIRWAY		02								NOTE 1.
HD-T7	TAMPER SWITCH - SPRINKLER SYSTEM	UNITS 6/8//10/12/14 SECOND FLOOR STAIRWAY		02								NOTE 1.
HD-F1	WATERFLOW SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM	01			04						NOTE 1.
HD-F2	WATERFLOW SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM	01			04						NOTE 1.
HD-F3	WATERFLOW SWITCH - SPRINKLER SYSTEM	UNITS 5/7//9/11/13 SECOND FLOOR STAIRWAY	01			04						NOTE 1.
HD-F4	WATERFLOW SWITCH - SPRINKLER SYSTEM	UNITS 6/8//10/12/14 SECOND FLOOR STAIRWAY	01			04						NOTE 1.
HD-MS1	POSITION MONITOR SWITCH	ELECTRICAL ROOM		02								NOTE 1.
HD-MS2	POSITION MONITOR SWITCH	ELECTRICAL ROOM		02								NOTE 1.
HD-MS3	POSITION MONITOR SWITCH	UNITS 5/7//9/11/13 SMOKE EVAC. FAN DISCONNECT		02								NOTE 1.
HD-MS4	POSITION MONITOR SWITCH	UNITS 6/8//10/12/14 SMOKE EVAC. FAN DISCONNECT		02								NOTE 1.

ACTIONS	
AC01	ALARM CONDITION AT CONTROL PANEL
AC02	SUPERVISORY CONDITION AT CONTROL PANEL
AC03	TROUBLE CONDITION AT CONTROL PANEL
AC04	ACTIVATE NOTIFICATION DEVICES
AC05	SHUTDOWN ASSOCIATED HVAC UNIT
AC06	ACTUATE SMOKE DAMPER
AC07	INITIATE CLOSING OF SMOKE BARRIER DOOR
AC08	ACTIVATE UNIT'S SMOKE REMOVAL SYSTEM
AC09	SEND SIGNAL TO BUILDING MANAGEMENT SYSTEM
AC10	

SCHEDULE NOTES:
1 PROVIDE NEW MONITOR MODULE FOR DEVICE INTERFACE.
2 FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.
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FIRE ALARM SYSTEM PERFORMANCE SCHEDULE - HOUSING BUILDING 11/12

INITIATING DEVICES

ID#	DESCRIPTION	LOCATION	ACTION UPON INITIATION									REMARKS
HE-M1	MANUAL STATION	WAITING AREA	01			04				08		
HE-M2	MANUAL STATION	LOBBY	01			04				08		
HE-M3	MANUAL STATION	UNITS 5/7//9/11/13 FIRST FLOOR STAIRWAY EXIT	01			04				08		
HE-M4	MANUAL STATION	UNITS 6/8//10/12/14 FIRST FLOOR STAIRWAY EXIT	01			04				08		
HE-S1	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HE-S2	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HE-S3	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HE-S4	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HE-S5	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HE-S6	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HE-S7	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HE-S8	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HE-S9	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HE-S10	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HE-S11	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HE-S12	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HE-S13	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HE-S56	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HE-S15	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HE-S16	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HE-S17	SMOKE DETECTOR - CEILING MOUNTED	WAITING AREA	01			04				08		NOTE 2.
HE-SD1	SMOKE DETECTOR - DUCT MOUNTED	UNITS 5/7//9/11/13, AHU-10-1, SUPPLY AIR DUCT	01			04				08		NOTE 2.
HE-SD2	SMOKE DETECTOR - DUCT MOUNTED	UNITS 5/7//9/11/13, AHU-10-1, RETURN AIR DUCT	01			04				08		NOTE 2.
HE-SD3	SMOKE DETECTOR - DUCT MOUNTED	UNITS 6/8/10/12/14, AHU-10-2, SUPPLY AIR DUCT	01			04				08		NOTE 2.
HE-SD4	SMOKE DETECTOR - DUCT MOUNTED	UNITS 6/8/10/12/14, AHU-10-2, RETURN AIR DUCT	01			04				08		NOTE 2.
HE-SD5	SMOKE DETECTOR - DUCT MOUNTED	AHU-10-3, SUPPLY AIR DUCT	01			04				08		NOTE 2.
HE-SD6	SMOKE DETECTOR - DUCT MOUNTED	AHU-10-3, RETURN AIR DUCT	01			04				08		NOTE 2.
HE-T1	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02								NOTE 1.
HE-T2	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02								NOTE 1.
HE-T3	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02								NOTE 1.
HE-T4	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02								NOTE 1.
HE-T5	TAMPER SWITCH - SPRINKLER SYSTEM	POST INDICATOR VALVE		02								NOTE 1.
HE-T6	TAMPER SWITCH - SPRINKLER SYSTEM	UNITS 5/7//9/11/13 SECOND FLOOR STAIRWAY		02								NOTE 1.
HE-T7	TAMPER SWITCH - SPRINKLER SYSTEM	UNITS 6/8//10/12/14 SECOND FLOOR STAIRWAY		02								NOTE 1.
HE-F1	WATERFLOW SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM	01			04						NOTE 1.
HE-F2	WATERFLOW SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM	01			04						NOTE 1.
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HE-MS1	POSITION MONITOR SWITCH	ELECTRICAL ROOM		02								NOTE 1.
HE-MS2	POSITION MONITOR SWITCH	ELECTRICAL ROOM		02								NOTE 1.
	POSITION MONITOR SWITCH	UNITS 5/7//9/11/13 SMOKE EVAC. FAN DISCONNECT		02								NOTE 1.
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ACTIONS	
AC01	ALARM CONDITION AT CONTROL PANEL
AC02	SUPERVISORY CONDITION AT CONTROL PANEL
AC03	TROUBLE CONDITION AT CONTROL PANEL
AC04	ACTIVATE NOTIFICATION DEVICES
AC05	SHUTDOWN ASSOCIATED HVAC UNIT
AC06	ACTUATE SMOKE DAMPER
AC07	INITIATE CLOSING OF SMOKE BARRIER DOOR
AC08	ACTIVATE UNIT'S SMOKE REMOVAL SYSTEM
AC09	SEND SIGNAL TO BUILDING MANAGEMENT SYSTEM
AC10	

SCHEDULE NOTES:
1 PROVIDE NEW MONITOR MODULE FOR DEVICE INTERFACE.
2 FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.
3
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FIRE ALARM SYSTEM PERFORMANCE SCHEDULE - HOUSING BUILDING 13/14

INITIATING DEVICES

ID#	DESCRIPTION	LOCATION	ACTION UPON INITIATION									REMARKS
HF-M1	MANUAL STATION	WAITING AREA	01			04				08		
HF-M2	MANUAL STATION	LOBBY	01			04				08		
HF-M3	MANUAL STATION	UNITS 5/7//9/11/13 FIRST FLOOR STAIRWAY EXIT	01			04				08		
HF-M4	MANUAL STATION	UNITS 6/8//10/12/14 FIRST FLOOR STAIRWAY EXIT	01			04				08		
HF-S1	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HF-S2	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HF-S3	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HF-S4	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HF-S5	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HF-S6	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HF-S7	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HF-S8	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 5/7//9/11/13	01			04				08	09	NOTE 2.
HF-S9	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HF-S10	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HF-S11	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HF-S12	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HF-S13	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HF-S56	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HF-S15	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HF-S16	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT 6/8//10/12/14	01			04				08	09	NOTE 2.
HF-S17	SMOKE DETECTOR - CEILING MOUNTED	WAITING AREA	01			04				08		NOTE 2.
HF-SD1	SMOKE DETECTOR - DUCT MOUNTED	UNITS 5/7//9/11/13, AHU-10-1, SUPPLY AIR DUCT	01			04				08		NOTE 2.
HF-SD2	SMOKE DETECTOR - DUCT MOUNTED	UNITS 5/7//9/11/13, AHU-10-1, RETURN AIR DUCT	01			04				08		NOTE 2.
HF-SD3	SMOKE DETECTOR - DUCT MOUNTED	UNITS 6/8/10/12/14, AHU-10-2, SUPPLY AIR DUCT	01			04				08		NOTE 2.
HF-SD4	SMOKE DETECTOR - DUCT MOUNTED	UNITS 6/8/10/12/14, AHU-10-2, RETURN AIR DUCT	01			04				08		NOTE 2.
HF-SD5	SMOKE DETECTOR - DUCT MOUNTED	AHU-10-3, SUPPLY AIR DUCT	01			04				08		NOTE 2.
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HF-MS3	POSITION MONITOR SWITCH	UNITS 5/7//9/11/13 SMOKE EVAC. FAN DISCONNECT		02								NOTE 1.
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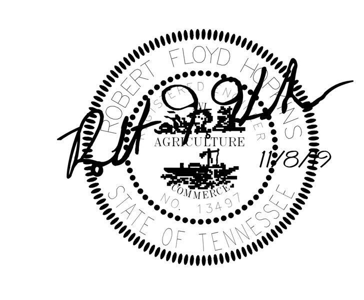

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

MEDIUM SECURITY HOUSING UNIT 5/6,7/8,9/10,11/12,13/14 - FIRE ALARM SYSTEM PERFORMANCE SCHEDULES

DRAWN BY: TV
DESIGNED BY: RH
CHECKED BY: RH

PHASE: CD
DATE: 11-08-2019
DRAWING NO: FA-1.5C

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KEYED NOTES

1. LOCATION OF EXISTING MAINTENANCE NETWORK SWITCH AND PATCH PANEL. REPLACE EXISTING SWITCH WITH NEW UL 864 LISTED SWITCH UNIT. PROVIDE ETHERNET CONNECTION OF NEW FIRE ALARM CONTROL PANEL. COORDINATE ALL DIGITAL NETWORK WORK WITH OWNER'S INFORMATION TECHNOLOGY DIVISION..
2. PROVIDE FIRE ALARM MONITOR CONNECTION TO EXISTING KITCHEN HOOD FIRE SUPPRESSION SYSTEM.
3. PROVIDE 120V CONNECTION TO NEW FIRE ALARM CONTROL PANEL FROM THE EXISTING 120V CIRCUIT THAT PRESENTLY SERVES THE EXISTING FIRE ALARM CONTROL PANEL THAT IS BEING REMOVED. REPLACE EXISTING CIRCUIT CONDUCTORS WITH NEW AND EXTEND CIRCUIT TO NEW LOCATION AS REQUIRED. INSTALL RED HANDLE LOCK ON BRANCH CIRCUIT BREAKER & IDENTIFY BREAKER AS SERVING 'FIRE ALARM SYSTEM'.
4. NEW FIRE ALARM CONTROL PANEL SHALL COMMUNICATE DIGITALLY WITH THE NEW PROPRIETARY SUPERVISING ALARM WORKSTATION THAT IS BEING INSTALLED IN THE CENTRAL CONTROL ROOM LOCATED IN THE SECURITY/VISITATION BUILDING (SEE SHEET FA-1.13). COMMUNICATIONS SHALL BE ACCOMPLISHED BY ETHERNET CONNECTION TO THE FACILITY'S EXISTING 'MAINTENANCE' LOCAL AREA NETWORK. COORDINATE EXISTING PATCH PANEL LOCATION, ETHERNET PORT ASSIGNMENT, IP ADDRESS ASSIGNMENT, ETC. WITH THE OWNER'S INFORMATION TECHNOLOGY DIVISION.

GENERAL NOTES

A. EXECUTE WORK SO AS TO INTERFERE AS LITTLE AS POSSIBLE WITH NORMAL FACILITY FUNCTIONS. ALL WORK SHALL BE SCHEDULED, PHASED & PERFORMED IN A MANNER SUCH THAT FIRE ALARM MONITORING, INITIATION, NOTIFICATION AND ANNUNCIATION OR FIRE WATCH SERVICE IS MAINTAINED THROUGHOUT THE FACILITY. COORDINATE ANY PERIODS DURING WHICH THE FIRE ALARM SYSTEM OR ANY PORTION THEREOF WILL BE DEACTIVATED WITH THE OWNER AND THE LOCAL FIRE DEPARTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL FIRE WATCH SERVICE WHICH MAY BE REQUIRED.

B. EACH EXISTING BUILDING'S FIRE ALARM SYSTEM SHALL REMAIN IN OPERATION DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM UNTIL SUCH TIME THAT THE BUILDING CAN BE CUT OVER FROM THE EXISTING SYSTEM TO THE NEW SYSTEM. IN LIEU OF KEEPING A BUILDING'S EXISTING FIRE ALARM SYSTEM OPERATIONAL UNTIL ITS NEW SYSTEM IS OPERATIONAL, THE CONTRACTOR MAY, IF ACCEPTABLE TO THE OWNER, PROVIDE FIRE WATCH SERVICE IN THE BUILDING FOR THE DURATION OF THE SYSTEM REPLACEMENT IN THAT BUILDING.

C. REMOVE ALL EXISTING FIRE ALARM SYSTEM WIRING. ALL NEW FIRE ALARM SYSTEM WIRING SHALL BE RUN IN NEW CONDUIT RACEWAYS UNLESS INDICATED OTHERWISE. CONDUIT SHALL BE EMT TYPE WITH COMPRESSION TYPE FITTINGS. EXISTING ABANDONED FIRE ALARM SYSTEM RACEWAYS MAY REMAIN AND MAY BE REUSED IN PLACE FOR NEW FIRE ALARM SYSTEM WIRING. ALL CONDUIT SHALL BE ATTACHED USING TWO-HOLE CONDUIT STRAPS & TAMPER RESISTANT SCREWS.

D. EXISTING RACEWAYS AND JUNCTION BOXES THAT ARE ABANDONED AS A RESULT OF THE WORK AND WILL NOT BE REUSED SHALL BE REMOVED. EXISTING CONDUCTORS IN SUCH RACEWAYS SHALL BE REMOVED BACK TO THE NEAREST "LIVE" JUNCTION BOX.

E. PAINT ALL NEW EXPOSED RACEWAYS TO MATCH SURROUNDING SURFACE. PAINT COLORS AND TYPES SHALL BE AS DIRECTED BY THE OWNER.

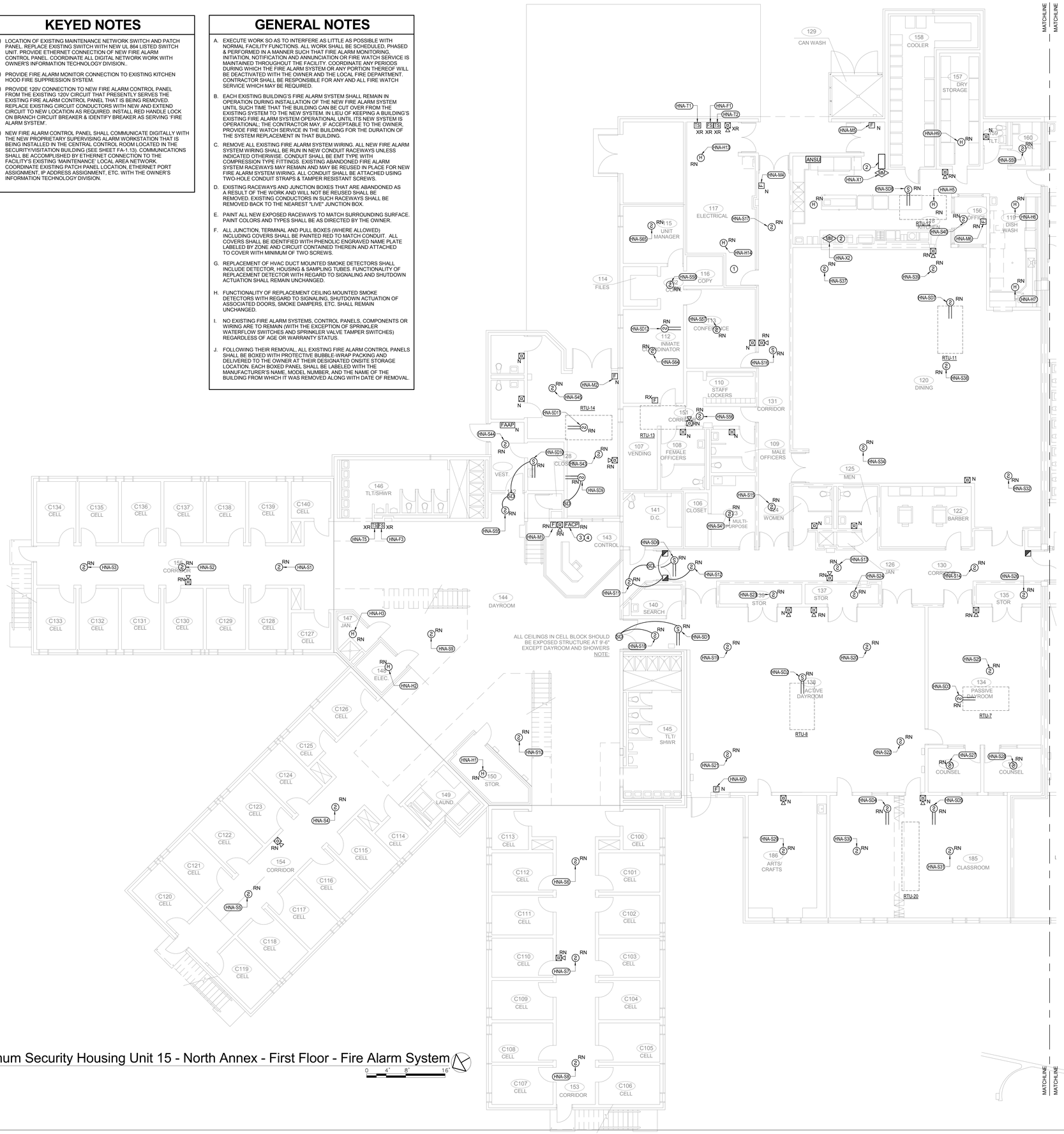
F. ALL JUNCTION, TERMINAL AND PULL BOXES (WHERE ALLOWED) INCLUDING COVERS SHALL BE PAINTED RED TO MATCH CONDUIT. ALL COVERS SHALL BE IDENTIFIED WITH PHENOLIC ENGRAVED NAME PLATE LABELED BY ZONE AND CIRCUIT CONTAINED THEREIN AND ATTACHED TO COVER WITH MINIMUM OF TWO SCREWS.

G. REPLACEMENT OF HVAC DUCT MOUNTED SMOKE DETECTORS SHALL INCLUDE DETECTOR, HOUSING & SAMPLING TUBES. FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.

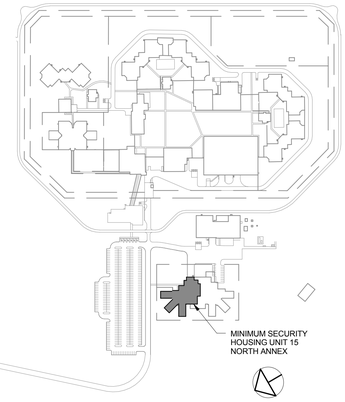
H. FUNCTIONALITY OF REPLACEMENT CEILING MOUNTED SMOKE DETECTORS WITH REGARD TO SIGNALING, SHUTDOWN ACTUATION OF ASSOCIATED DOORS, SMOKE DAMPERS, ETC. SHALL REMAIN UNCHANGED.

I. NO EXISTING FIRE ALARM SYSTEMS, CONTROL PANELS, COMPONENTS OR WIRING ARE TO REMAIN (WITH THE EXCEPTION OF SPRINKLER WATERFLOW SWITCHES AND SPRINKLER VALVE TAMPER SWITCHES) REGARDLESS OF AGE OR WARRANTY STATUS.

J. FOLLOWING THEIR REMOVAL, ALL EXISTING FIRE ALARM CONTROL PANELS SHALL BE BOXED WITH PROTECTIVE BUBBLE-WRAP PACKING AND DELIVERED TO THE OWNER AT THEIR DESIGNATED ONSITE STORAGE LOCATION. EACH BOXED PANEL SHALL BE LABELED WITH THE MANUFACTURER'S NAME, MODEL NUMBER, AND THE NAME OF THE BUILDING FROM WHICH IT WAS REMOVED ALONG WITH DATE OF REMOVAL.



1 Minimum Security Housing Unit 15 - North Annex - First Floor - Fire Alarm System
1/8" = 1'-0"
0 4' 8' 16'



SITE KEY PLAN
NOT TO SCALE

LEGEND

⊠	FIRE ALARM VISUAL DEVICE - STROBE ONLY
⊗	FIRE ALARM CEILING MOUNT VISUAL DEVICE - STROBE ONLY
◻	FIRE ALARM AUDIO DEVICE
◻⊠	FIRE ALARM AUDIO DEVICE WITH STROBE
◻	FIRE ALARM HORN
⊠	FIRE ALARM HORN WITH STROBE
⊗	FIRE ALARM CEILING MOUNT HORN WITH STROBE
F	FIRE ALARM MANUAL PULL STATION
S	FIRE ALARM SMOKE DETECTOR
H	FIRE ALARM HEAT DETECTOR SUBSCRIPT AS FOLLOWS: R=RATE OF RISE; T=FIXED TEMPERATURE
X	FIRE ALARM DUCT SMOKE DETECTOR SUBSCRIPT AS FOLLOWS: S=SUPPLY; R=RETURN
CM	FIRE ALARM CONTROL MODULE
MM	FIRE ALARM MONITOR MODULE
RM	FIRE ALARM RELAY MODULE
FS	FLOW SWITCH
TS	TAMPER SWITCH
M	MAGNETIC DOOR HOLDER
R	SMOKE DETECTOR REMOTE INDICATOR / TEST SWITCH
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
SCP	SMOKE CONTROL PANEL
SD	SMOKE DAMPER (EXISTING TO REMAIN)
ES	ELECTRIC SHUTOFF VALVE
	EXISTING MECHANICAL EQUIPMENT
	COMBINATION MOTOR STARTER/SAFETY SWITCH
J	JUNCTION BOX
	PANELBOARD
SSP	SECURITY SYSTEM CONTROL PANEL
N	NEW DEVICE AT NEW LOCATION
RN	REPLACE EXISTING DEVICE WITH NEW DEVICE
XR	EXISTING DEVICE TO REMAIN
RX	REMOVE EXISTING DEVICE

INITIATING DEVICE IDENTIFICATION KEY

COUNT

BUILDING

AD = ADMINISTRATION
FM = FACILITY MAINTENANCE/ WAREHOUSE
FS = FOOD SERVICE
HA = HOUSING 1/2/3/4
HB = HOUSING 5/6
HC = HOUSING 7/8
HD = HOUSING 9/10
HE = HOUSING 11/12
HF = HOUSING 13/14
HNA = HOUSING NORTH ANNEX
HSA = HOUSING SOUTH ANNEX
IN = INDUSTRIES
MS = HEALTH/ MEDICAL SERVICES
PGA = HIGH SECURITY HOUSING PROGRAM A
PGB = MEDIUM SECURITY HOUSING PROGRAM B
PGC = MEDIUM SECURITY HOUSING PROGRAM C
PGD = MEDIUM SECURITY HOUSING PROGRAM D
PS = ACADEMIC/VOCATIONAL EDUCATION
RS = RECREATIONAL SERVICES
SV = SECURITY/ VISITATION

DEVICE TYPE

F = SPRINKLER WATERFLOW SWITCH
M = MANUAL STATION
MS = POSITION MONITOR SWITCH
H = HEAT DETECTOR
S = SMOKE DETECTOR
SD = SMOKE DETECTOR - DUCT MOUNTED
T = SPRINKLER VAVLE TAMPER SWITCH
X = SPECIAL SYSTEM MONITOR

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SSR Project #: 17671400

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

MINIMUM SECURITY HOUSING UNIT 15 - NORTH ANNEX - FIRST FLOOR - FIRE ALARM SYSTEM

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DESIGNED BY:	RH	
CHECKED BY:	RH	
PHASE:	CD	DRAWING NO:
DATE:	11-08-2019	FA-1.6A

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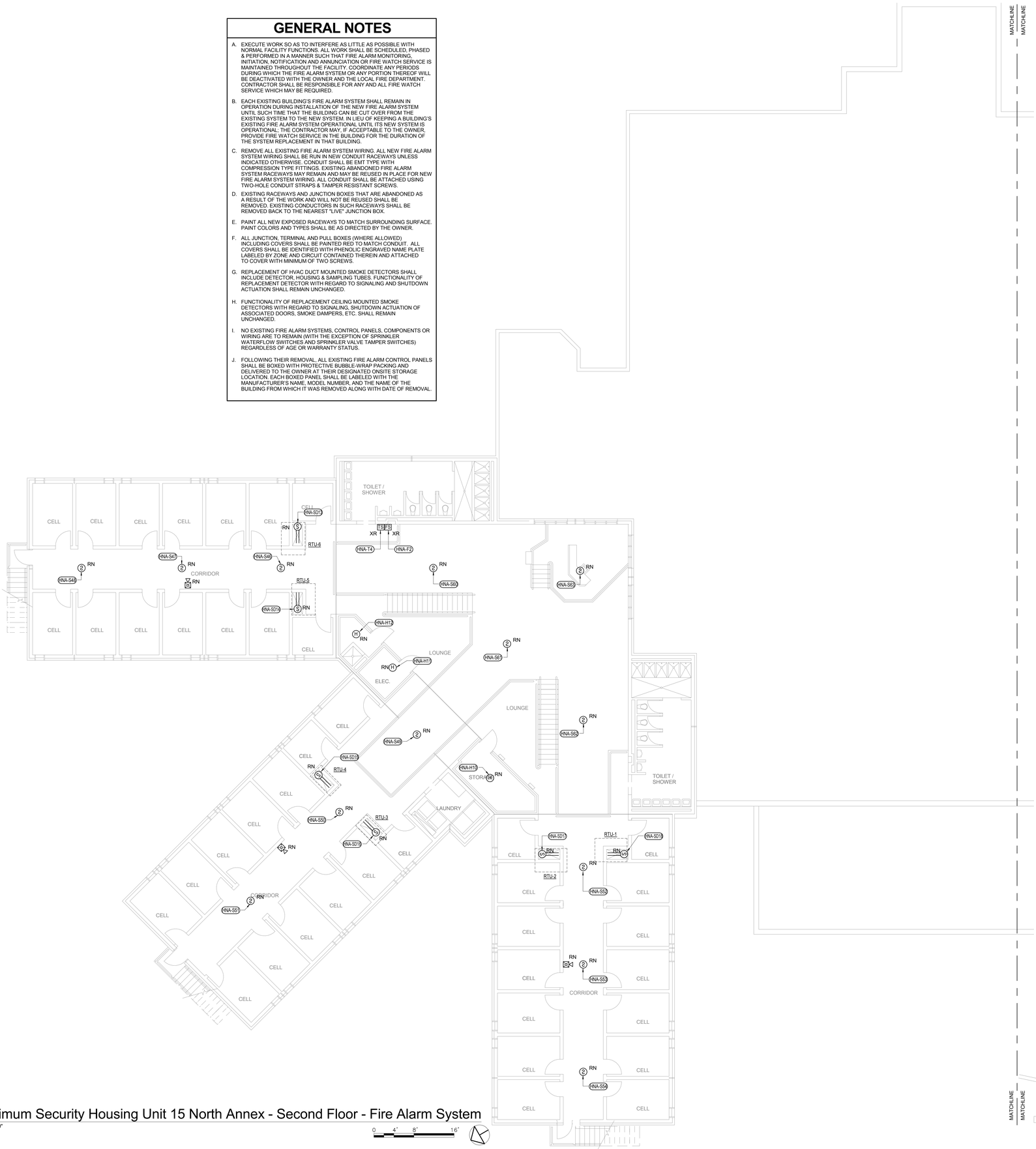

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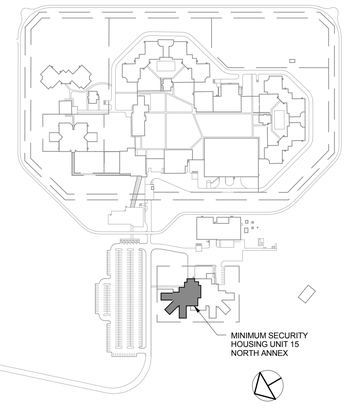

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FS	= FOOD SERVICE	MS	= POSITION MONITOR SWITCH
HA	= HOUSING 1/2/3/4	H	= HEAT DETECTOR
HB	= HOUSING 5/6	S	= SMOKE DETECTOR
HC	= HOUSING 7/8	SD	= SMOKE DETECTOR - DUCT MOUNTED
HD	= HOUSING 9/10	T	= SPRINKLER VAVLE TAMPER SWITCH
HE	= HOUSING 11/12	X	= SPECIAL SYSTEM MONITOR
HF	= HOUSING 13/14		
HNA	= HOUSING NORTH ANNEX		
HSA	= HOUSING SOUTH ANNEX		
IN	= INDUSTRIES		
MS	= HEALTH/ MEDICAL SERVICES		
PGA	= HIGH SECURITY HOUSING PROGRAM A		
PGB	= MEDIUM SECURITY HOUSING PROGRAM B		
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No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

MINIMUM SECURITY HOUSING UNIT 15 - NORTH ANNEX - SECOND FLOOR - FIRE ALARM SYSTEM

DRAWN BY:	TV		
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CHECKED BY:	RH		
PHASE:	CD	DRAWING NO:	
DATE:	11-08-2019	FA-1.6B	

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FIRE ALARM SYSTEM PERFORMANCE SCHEDULE - HOUSING 15 - NORTH

INITIATING DEVICES ID#	DESCRIPTION	LOCATION	ACTION UPON INITIATION							REMARKS
HNA-M1	MANUAL STATION	CONTROL DESK	01	04						
HNA-M2	MANUAL STATION	EAST	01	04						
HNA-M3	MANUAL STATION	ACTIVE DAY ROOM NORTH WEST EXIT	01	04						
HNA-M4	MANUAL STATION	CORRIDOR EXIT - EAST	01	04						
HNA-M5	MANUAL STATION	KITCHEN EXIT	01	04						
HNA-M6	MANUAL STATION	OFFICE EXIT	01	04						
HNA-S1	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01	04						NOTE 2.
HNA-S2	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01	04						NOTE 2.
HNA-S3	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01	04						NOTE 2.
HNA-S4	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01	04						NOTE 2.
HNA-S5	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01	04						NOTE 2.
HNA-S6	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01	04						NOTE 2.
HNA-S7	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01	04						NOTE 2.
HNA-S8	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01	04						NOTE 2.
HNA-S9	SMOKE DETECTOR - CEILING MOUNTED	DAY ROOM	01	04						NOTE 2.
HNA-S10	SMOKE DETECTOR - CEILING MOUNTED	DAY ROOM	01	04						NOTE 2.
HNA-S11	SMOKE DETECTOR - CEILING MOUNTED	N-S CORRODOR	01	04						NOTE 2.
HNA-S12	SMOKE DETECTOR - CEILING MOUNTED	N-S CORRODOR	01	04						NOTE 2.
HNA-S13	SMOKE DETECTOR - CEILING MOUNTED	N-S CORRODOR	01	04						NOTE 2.
HNA-S14	SMOKE DETECTOR - CEILING MOUNTED	N-S CORRODOR	01	04						NOTE 2.
HNA-S15	SMOKE DETECTOR - CEILING MOUNTED	E-W CORRIDOR	01	04						NOTE 2.
HNA-S16	SMOKE DETECTOR - CEILING MOUNTED	E-W CORRIDOR	01	04						NOTE 2.
HNA-S17	SMOKE DETECTOR - CEILING MOUNTED	E-W CORRIDOR	01	04						NOTE 2.
HNA-S18	SMOKE DETECTOR - CEILING MOUNTED	ACTIVE DAYROOM	01	04						NOTE 2.
HNA-S19	SMOKE DETECTOR - CEILING MOUNTED	ACTIVE DAYROOM	01	04						NOTE 2.
HNA-S20	SMOKE DETECTOR - CEILING MOUNTED	ACTIVE DAYROOM	01	04						NOTE 2.
HNA-S21	SMOKE DETECTOR - CEILING MOUNTED	ACTIVE DAYROOM	01	04						NOTE 2.
HNA-S22	SMOKE DETECTOR - CEILING MOUNTED	ACTIVE DAYROOM	01	04						NOTE 2.
HNA-S23	SMOKE DETECTOR - CEILING MOUNTED	ACTIVE DAYROOM CLOSET	01	04						NOTE 2.
HNA-S24	SMOKE DETECTOR - CEILING MOUNTED	ACTIVE DAYROOM CLOSET	01	04						NOTE 2.
HNA-S25	SMOKE DETECTOR - CEILING MOUNTED	DAYROOM PASSIVE	01	04						NOTE 2.
HNA-S26	SMOKE DETECTOR - CEILING MOUNTED	DAYROOM PASSIVE CLOSET	01	04						NOTE 2.
HNA-S27	SMOKE DETECTOR - CEILING MOUNTED	COUNSELOR	01	04						NOTE 2.
HNA-S28	SMOKE DETECTOR - CEILING MOUNTED	COUNSELOR	01	04						NOTE 2.
HNA-S29	SMOKE DETECTOR - CEILING MOUNTED	ARTS/ CRAFTS	01	04						NOTE 2.
HNA-S30	SMOKE DETECTOR - CEILING MOUNTED	CLASSROOM	01	04						NOTE 2.
HNA-S31	SMOKE DETECTOR - CEILING MOUNTED	CLASSROOM	01	04						NOTE 2.
HNA-S32	SMOKE DETECTOR - CEILING MOUNTED	DINING	01	04						NOTE 2.
HNA-S33	NOT USED									
HNA-S34	SMOKE DETECTOR - CEILING MOUNTED	DINING	01	04						NOTE 2.
HNA-S35	NOT USED									
HNA-S36	NOT USED									
HNA-S37	SMOKE DETECTOR - CEILING MOUNTED	DINING	01	04						NOTE 2.
HNA-S38	SMOKE DETECTOR - CEILING MOUNTED		01	04						NOTE 2.
HNA-S39	SMOKE DETECTOR - CEILING MOUNTED	DINING	01	04						NOTE 2.
HNA-S40	SMOKE DETECTOR - CEILING MOUNTED	OFFICE	01	04						NOTE 2.
HNA-S41	SMOKE DETECTOR - CEILING MOUNTED	MULTI-PURPOSE	01	04						NOTE 2.
HNA-S42	NOT USED									
HNA-S43	SMOKE DETECTOR - CEILING MOUNTED	CORRIDOR	01	04						NOTE 2.
HNA-S44	SMOKE DETECTOR - CEILING MOUNTED	VESTIBULE	01	04						NOTE 2.
HNA-S45	SMOKE DETECTOR - CEILING MOUNTED	CORRIDOR	01	04						NOTE 2.
HNA-S46	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01	04						NOTE 2.
HNA-S47	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01	04						NOTE 2.
HNA-S48	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01	04						NOTE 2.
HNA-S49	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01	04						NOTE 2.
HNA-S50	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01	04						NOTE 2.
HNA-S51	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01	04						NOTE 2.
HNA-S52	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01	04						NOTE 2.
HNA-S53	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01	04						NOTE 2.
HNA-S54	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01	04						NOTE 2.
HNA-S55	SMOKE DETECTOR - CEILING MOUNTED	CORRIDOR	01	04		06				NOTE 2.
HNA-S56	SMOKE DETECTOR - CEILING MOUNTED	CORRIDOR	01	04						NOTE 2.
HNA-S57	SMOKE DETECTOR - CEILING MOUNTED	CONFERENCE ROOM	01	04						NOTE 2.
HNA-S58	SMOKE DETECTOR - CEILING MOUNTED	CORRIDOR	01	04						NOTE 2.
HNA-S59	SMOKE DETECTOR - CEILING MOUNTED	JANITOR CLOSET	01	04						NOTE 2.
HNA-S60	SMOKE DETECTOR - CEILING MOUNTED	DAY ROOM	01	04						NOTE 2.
HNA-S61	SMOKE DETECTOR - CEILING MOUNTED	DAY ROOM	01	04						NOTE 2.
HNA-S62	SMOKE DETECTOR - CEILING MOUNTED	DAY ROOM	01	04						NOTE 2.
HNA-S63	SMOKE DETECTOR - CEILING MOUNTED	CONTROL ROOM	01	04						NOTE 2.
HNA-S64	SMOKE DETECTOR - CEILING MOUNTED	INMATE COUNSELOR	01	04						NOTE 2.
HNA-S65	SMOKE DETECTOR - CEILING MOUNTED	UNIT MANAGER	01	04						NOTE 2.
HNA-SD1	SMOKE DETECTOR - DUCT MOUNTED	SMOKE DAMPER?	02		06					NOTE 2.
HNA-SD2	SMOKE DETECTOR - DUCT MOUNTED	RTU-8 SUPPLY AIR DUCT	02		05					NOTE 2.
HNA-SD3	SMOKE DETECTOR - DUCT MOUNTED	RTU-7 SUPPLY AIR DUCT	02		05					NOTE 2.
HNA-SD4	SMOKE DETECTOR - DUCT MOUNTED	RTU-20 SUPPLY AIR DUCT	02		05					NOTE 2.
HNA-SD5	SMOKE DETECTOR - DUCT MOUNTED	RTU-20 SUPPLY AIR DUCT	02		05					NOTE 2.
HNA-SD6	SMOKE DETECTOR - DUCT MOUNTED	SMOKE DAMPER	02		05					NOTE 2.
HNA-SD7	SMOKE DETECTOR - DUCT MOUNTED	RTU-11 SUPPLY AIR DUCT	02		05					NOTE 2.
HNA-SD8	SMOKE DETECTOR - DUCT MOUNTED	RTU-12 SUPPLY AIR DUCT	02		05					NOTE 2.
HNA-SD9	SMOKE DETECTOR - DUCT MOUNTED	SMOKE DAMPER	02		05					NOTE 2.
HNA-SD10	SMOKE DETECTOR - DUCT MOUNTED	SMOKE DAMPER	02		05					NOTE 2.
HNA-SD11	SMOKE DETECTOR - DUCT MOUNTED	RTU-14 SUPPLY AIR DUCT	02		05					NOTE 2.
HNA-SD12	SMOKE DETECTOR - DUCT MOUNTED	RTU-13 SUPPLY AIR DUCT	02		05					NOTE 2.
HNA-SD13	SMOKE DETECTOR - DUCT MOUNTED	RTU-6 RETURN AIR DUCT	02		05					NOTE 2.
HNA-SD14	SMOKE DETECTOR - DUCT MOUNTED	RTU-5 RETURN AIR DUCT	02		05					NOTE 2.
HNA-SD15	SMOKE DETECTOR - DUCT MOUNTED	RTU-4 RETURN AIR DUCT	02		05					NOTE 2.
HNA-SD16	SMOKE DETECTOR - DUCT MOUNTED	RTU-3 RETURN AIR DUCT	02		05					NOTE 2.
HNA-SD17	SMOKE DETECTOR - DUCT MOUNTED	RTU-2 RETURN AIR DUCT	02		05					NOTE 2.
HNA-SD18	SMOKE DETECTOR - DUCT MOUNTED	RTU-1 RETURN AIR DUCT	02		05					NOTE 2.
HNA-T1	TAMPER SWITCH - SPRINKLER SYSTEM	ELECTRICAL ROOM	02		05					NOTE 1.
HNA-T2	TAMPER SWITCH - SPRINKLER SYSTEM	ELECTRICAL ROOM	02		05					NOTE 1.
HNA-T3	TAMPER SWITCH - SPRINKLER SYSTEM	POST INDICATOR VALVE	02		05					NOTE 1.
HNA-T4	TAMPER SWITCH - SPRINKLER SYSTEM	SECOND FLOOR	02		05					NOTE 1.
HNA-T5	TAMPER SWITCH - SPRINKLER SYSTEM	FIRST FLOOR DAYROOM	02		05					NOTE 1.
HNA-F1	WATERFLOW SWITCH - SPRINKLER SYSTEM	ELECTRICAL ROOM	01		04					NOTE 1.
HNA-F2	WATERFLOW SWITCH - SPRINKLER SYSTEM	SECOND FLOOR	01		04					NOTE 1.
HNA-F3	WATERFLOW SWITCH - SPRINKLER SYSTEM	FIRST FLOOR DAYROOM	01		04					NOTE 1.
HNA-H1	HEAT DETECTOR - CEILING MOUNTED	STORAGE ROOM	01		04					
HNA-H2	HEAT DETECTOR - CEILING MOUNTED	ELECTRICAL ROOM	01		04					
HNA-H3	HEAT DETECTOR - CEILING MOUNTED	JANITOR CLOSET	01		04					
HNA-H4	NOT USED	KITCHEN								
HNA-H5	HEAT DETECTOR - CEILING MOUNTED	KITCHEN	01	04						
HNA-H6	HEAT DETECTOR - CEILING MOUNTED	DISHWASHING	01	04						
HNA-H7	HEAT DETECTOR - CEILING MOUNTED	DISHWASHING	01	04						
HNA-H8	NOT USED									
HNA-H9	HEAT DETECTOR - CEILING MOUNTED	DRY STORAGE	01	04						
HNA-H10	HEAT DETECTOR - CEILING MOUNTED	STORAGE ROOM	01	04						
HNA-H11	HEAT DETECTOR - CEILING MOUNTED	ELECTRICAL ROOM	01	04						
HNA-H12	HEAT DETECTOR - CEILING MOUNTED	JANITOR CLOSET	01	04						
HNA-H13	HEAT DETECTOR - CEILING MOUNTED	ELECTRICAL ROOM	01	04						
HNA-H14	HEAT DETECTOR - CEILING MOUNTED	ELECTRICAL ROOM	01	04						
HNA-X1	SUPPRESSION SYSTEM - KITCHEN HOOD	KITCHEN	01	04						NOTE 1.
HNA-X2	SUPPRESSION SYSTEM - KITCHEN HOOD	KITCHEN	01	04						NOTE 1.

ACTIONS	
AC01	ALARM CONDITION AT CONTROL PANEL
AC02	SUPERVISORY CONDITION AT CONTROL PANEL
AC03	TROUBLE CONDITION AT CONTROL PANEL
AC04	ACTIVATE NOTIFICATION DEVICES
AC05	SHUTDOWN ASSOCIATED HVAC UNIT
AC06	ACTUATE SMOKE DAMPER
AC07	INITIATE CLOSING OF SMOKE BARRIER DOOR
AC08	ACTIVATE UNIT'S SMOKE REMOVAL SYSTEM
AC09	SEND SIGNAL TO BUILDING MANAGEMENT SYSTEM
AC10	

SCHEDULE NOTES:
1 PROVIDE NEW MONITOR MODULE FOR DEVICE INTERFACE.
2 FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.
3
4
5

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No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

MINIMUM SECURITY HOUSING UNIT 15 - NORTH ANNEX - FIRE ALARM SYSTEM PERFORMANCE SCHEDULE

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1 Minimum Security Housing Unit 15 South Annex - First Floor - Fire Alarm System
1/8" = 1'-0"
0 4' 8' 16'

GENERAL NOTES

A. EXECUTE WORK SO AS TO INTERFERE AS LITTLE AS POSSIBLE WITH NORMAL FACILITY FUNCTIONS. ALL WORK SHALL BE SCHEDULED, PHASED & PERFORMED IN A MANNER SUCH THAT FIRE ALARM MONITORING, INITIATION, NOTIFICATION AND ANNUNCIATION OR FIRE WATCH SERVICE IS MAINTAINED THROUGHOUT THE FACILITY. COORDINATE ANY PERIODS DURING WHICH THE FIRE ALARM SYSTEM OR ANY PORTION THEREOF WILL BE DEACTIVATED WITH THE OWNER AND THE LOCAL FIRE DEPARTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL FIRE WATCH SERVICE WHICH MAY BE REQUIRED.

B. EACH EXISTING BUILDING'S FIRE ALARM SYSTEM SHALL REMAIN IN OPERATION DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM UNTIL SUCH TIME THAT THE BUILDING CAN BE CUT OVER FROM THE EXISTING SYSTEM TO THE NEW SYSTEM. IN LIEU OF KEEPING A BUILDING'S EXISTING FIRE ALARM SYSTEM OPERATIONAL UNTIL ITS NEW SYSTEM IS OPERATIONAL, THE CONTRACTOR MAY, IF ACCEPTABLE TO THE OWNER, PROVIDE FIRE WATCH SERVICE IN THE BUILDING FOR THE DURATION OF THE SYSTEM REPLACEMENT IN THAT BUILDING.

C. REMOVE ALL EXISTING FIRE ALARM SYSTEM WIRING. ALL NEW FIRE ALARM SYSTEM WIRING SHALL BE RUN IN NEW CONDUIT RACEWAYS UNLESS INDICATED OTHERWISE. CONDUIT SHALL BE EMT TYPE WITH COMPRESSION TYPE FITTINGS. EXISTING ABANDONED FIRE ALARM SYSTEM RACEWAYS MAY REMAIN AND MAY BE REUSED IN PLACE FOR NEW FIRE ALARM SYSTEM WIRING. ALL CONDUIT SHALL BE ATTACHED USING TWO-HOLE CONDUIT STRAPS & TAMPER RESISTANT SCREWS.

D. EXISTING RACEWAYS AND JUNCTION BOXES THAT ARE ABANDONED AS A RESULT OF THE WORK AND WILL NOT BE REUSED SHALL BE REMOVED. EXISTING CONDUCTORS IN SUCH RACEWAYS SHALL BE REMOVED BACK TO THE NEAREST "LIVE" JUNCTION BOX.

E. PAINT ALL NEW EXPOSED RACEWAYS TO MATCH SURROUNDING SURFACE. PAINT COLORS AND TYPES SHALL BE AS DIRECTED BY THE OWNER.

F. ALL JUNCTION, TERMINAL AND PULL BOXES (WHERE ALLOWED) INCLUDING COVERS SHALL BE PAINTED RED TO MATCH CONDUIT. ALL COVERS SHALL BE IDENTIFIED WITH PHENOLIC ENGRAVED NAME PLATE LABELED BY ZONE AND CIRCUIT CONTAINED THEREIN AND ATTACHED TO COVER WITH MINIMUM OF TWO SCREWS.

G. REPLACEMENT OF HVAC DUCT MOUNTED SMOKE DETECTORS SHALL INCLUDE DETECTOR, HOUSING & SAMPLING TUBES. FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.

H. FUNCTIONALITY OF REPLACEMENT CEILING MOUNTED SMOKE DETECTORS WITH REGARD TO SIGNALING, SHUTDOWN ACTUATION OF ASSOCIATED DOORS, SMOKE DAMPERS, ETC. SHALL REMAIN UNCHANGED.

I. NO EXISTING FIRE ALARM SYSTEMS, CONTROL PANELS, COMPONENTS OR WIRING ARE TO REMAIN (WITH THE EXCEPTION OF SPRINKLER WATERFLOW SWITCHES AND SPRINKLER VALVE TAMPER SWITCHES) REGARDLESS OF AGE OR WARRANTY STATUS.

J. FOLLOWING THEIR REMOVAL, ALL EXISTING FIRE ALARM CONTROL PANELS SHALL BE BOXED WITH PROTECTIVE BUBBLE-WRAP PACKING AND DELIVERED TO THE OWNER AT THEIR DESIGNATED ONSITE STORAGE LOCATION. EACH BOXED PANEL SHALL BE LABELED WITH THE MANUFACTURER'S NAME, MODEL NUMBER, AND THE NAME OF THE BUILDING FROM WHICH IT WAS REMOVED ALONG WITH DATE OF REMOVAL.

KEYED NOTES

1. PROVIDE 120V CONNECTION TO NEW FIRE ALARM CONTROL PANEL FROM THE EXISTING 120V CIRCUIT THAT PRESENTLY SERVES THE EXISTING FIRE ALARM CONTROL PANEL THAT IS BEING REMOVED. REPLACE EXISTING CIRCUIT CONDUCTORS WITH NEW AND EXTEND CIRCUIT TO NEW LOCATION AS REQUIRED. INSTALL RED HANDLE LOCK ON BRANCH CIRCUIT BREAKER & IDENTIFY BREAKER AS SERVING 'FIRE ALARM SYSTEM'.

2. NEW FIRE ALARM CONTROL PANEL SHALL COMMUNICATE DIGITALLY WITH THE NEW PROPRIETARY SUPERVISING ALARM WORKSTATION THAT IS BEING INSTALLED IN THE CENTRAL CONTROL ROOM LOCATED IN THE SECURITY/VISITATION BUILDING (SEE SHEET FA-1.13). COMMUNICATIONS SHALL BE ACCOMPLISHED BY ETHERNET CONNECTION TO THE FACILITY'S EXISTING 'MAINTENANCE' LOCAL AREA NETWORK. COORDINATE EXISTING PATCH PANEL LOCATION, ETHERNET PORT ASSIGNMENT, IP ADDRESS ASSIGNMENT, ETC. WITH THE OWNER'S INFORMATION TECHNOLOGY DIVISION.

LEGEND

⊠	FIRE ALARM VISUAL DEVICE - STROBE ONLY
⊗	FIRE ALARM CEILING MOUNT VISUAL DEVICE - STROBE ONLY
□	FIRE ALARM AUDIO DEVICE
⊠	FIRE ALARM AUDIO DEVICE WITH STROBE
□	FIRE ALARM HORN
⊠	FIRE ALARM HORN WITH STROBE
⊗	FIRE ALARM CEILING MOUNT HORN WITH STROBE
F	FIRE ALARM MANUAL PULL STATION
S	FIRE ALARM SMOKE DETECTOR
H	FIRE ALARM HEAT DETECTOR SUBSCRIPT AS FOLLOWS: R=RATE OF RISE; T=FIXED TEMPERATURE
X	FIRE ALARM DUCT SMOKE DETECTOR SUBSCRIPT AS FOLLOWS: S=SUPPLY; R=RETURN
CM	FIRE ALARM CONTROL MODULE
MP	FIRE ALARM MONITOR MODULE
RM	FIRE ALARM RELAY MODULE
FS	FLOW SWITCH
TS	TAMPER SWITCH
	MAGNETIC DOOR HOLDER
R	SMOKE DETECTOR REMOTE INDICATOR / TEST SWITCH
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
SCP	SMOKE CONTROL PANEL
SD	SMOKE DAMPER (EXISTING TO REMAIN)
ES	ELECTRIC SHUTOFF VALVE
	EXISTING MECHANICAL EQUIPMENT
	COMBINATION MOTOR STARTER/SAFETY SWITCH
J	JUNCTION BOX
	PANELBOARD
SCP	SECURITY SYSTEM CONTROL PANEL
N	NEW DEVICE AT NEW LOCATION
RN	REPLACE EXISTING DEVICE WITH NEW DEVICE
XR	EXISTING DEVICE TO REMAIN
RX	REMOVE EXISTING DEVICE

INITIATING DEVICE IDENTIFICATION KEY

COUNT
BUILDING
DEVICE TYPE

AD	= ADMINISTRATION	F	= SPRINKLER WATERFLOW SWITCH
FM	= FACILITY MAINTENANCE/ WAREHOUSE	M	= MANUAL STATION
FS	= FOOD SERVICE	MS	= POSITION MONITOR SWITCH
HA	= HOUSING 1/2/3/4	H	= HEAT DETECTOR
HB	= HOUSING 5/6	S	= SMOKE DETECTOR
HC	= HOUSING 7/8	SD	= SMOKE DETECTOR - DUCT MOUNTED
HD	= HOUSING 9/10	T	= SPRINKLER VAVLE TAMPER SWITCH
HE	= HOUSING 11/12	X	= SPECIAL SYSTEM MONITOR
HF	= HOUSING 13/14		
HNA	= HOUSING NORTH ANNEX		
HSA	= HOUSING SOUTH ANNEX		
IN	= INDUSTRIES		
MS	= HEALTH/ MEDICAL SERVICES		
PGA	= HIGH SECURITY HOUSING PROGRAM A		
PGB	= MEDIUM SECURITY HOUSING PROGRAM B		
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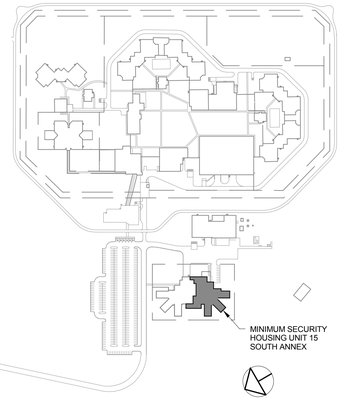
PS	= ACADEMIC/VOCATIONAL EDUCATION		
RS	= RECREATIONAL SERVICES		
SV	= SECURITY/ VISITATION		



SITE KEY PLAN
NOT TO SCALE

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SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

MINIMUM SECURITY HOUSING UNIT 15 - SOUTH ANNEX - FIRST FLOOR - FIRE ALARM SYSTEM

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DESIGNED BY:	RH	
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PHASE:	CD	DRAWING NO:
DATE:	11-08-2019	FA-1.7A

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GENERAL NOTES

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B. EACH EXISTING BUILDING'S FIRE ALARM SYSTEM SHALL REMAIN IN OPERATION DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM UNTIL SUCH TIME THAT THE BUILDING CAN BE CUT OVER FROM THE EXISTING SYSTEM TO THE NEW SYSTEM. IN LIEU OF KEEPING A BUILDING'S EXISTING FIRE ALARM SYSTEM OPERATIONAL UNTIL ITS NEW SYSTEM IS OPERATIONAL; THE CONTRACTOR MAY, IF ACCEPTABLE TO THE OWNER, PROVIDE FIRE WATCH SERVICE IN THE BUILDING FOR THE DURATION OF THE SYSTEM REPLACEMENT IN THAT BUILDING.

C. REMOVE ALL EXISTING FIRE ALARM SYSTEM WIRING. ALL NEW FIRE ALARM SYSTEM WIRING SHALL BE RUN IN NEW CONDUIT RACEWAYS UNLESS INDICATED OTHERWISE. CONDUIT SHALL BE EMT TYPE WITH COMPRESSION TYPE FITTINGS. EXISTING ABANDONED FIRE ALARM SYSTEM RACEWAYS MAY REMAIN AND MAY BE REUSED IN PLACE FOR NEW FIRE ALARM SYSTEM WIRING. ALL CONDUIT SHALL BE ATTACHED USING TWO-HOLE CONDUIT STRAPS & TAMPER RESISTANT SCREWS.

D. EXISTING RACEWAYS AND JUNCTION BOXES THAT ARE ABANDONED AS A RESULT OF THE WORK AND WILL NOT BE REUSED SHALL BE REMOVED. EXISTING CONDUCTORS IN SUCH RACEWAYS SHALL BE REMOVED BACK TO THE NEAREST "LIVE" JUNCTION BOX.

E. PAINT ALL NEW EXPOSED RACEWAYS TO MATCH SURROUNDING SURFACE. PAINT COLORS AND TYPES SHALL BE AS DIRECTED BY THE OWNER.

F. ALL JUNCTION, TERMINAL AND PULL BOXES (WHERE ALLOWED) INCLUDING COVERS SHALL BE PAINTED RED TO MATCH CONDUIT. ALL COVERS SHALL BE IDENTIFIED WITH PHENOLIC ENGRAVED NAME PLATE LABELED BY ZONE AND CIRCUIT CONTAINED THEREIN AND ATTACHED TO COVER WITH MINIMUM OF TWO SCREWS.

G. REPLACEMENT OF HVAC DUCT MOUNTED SMOKE DETECTORS SHALL INCLUDE DETECTOR, HOUSING & SAMPLING TUBES. FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.

H. FUNCTIONALITY OF REPLACEMENT CEILING MOUNTED SMOKE DETECTORS WITH REGARD TO SIGNALING, SHUTDOWN ACTUATION OF ASSOCIATED DOORS, SMOKE DAMPERS, ETC. SHALL REMAIN UNCHANGED.

I. NO EXISTING FIRE ALARM SYSTEMS, CONTROL PANELS, COMPONENTS OR WIRING ARE TO REMAIN (WITH THE EXCEPTION OF SPRINKLER WATERFLOW SWITCHES AND SPRINKLER VALVE TAMPER SWITCHES) REGARDLESS OF AGE OR WARRANTY STATUS.

J. FOLLOWING THEIR REMOVAL, ALL EXISTING FIRE ALARM CONTROL PANELS SHALL BE BOXED WITH PROTECTIVE BUBBLE-WRAP PACKING AND DELIVERED TO THE OWNER AT THEIR DESIGNATED ONSITE STORAGE LOCATION. EACH BOXED PANEL SHALL BE LABELED WITH THE MANUFACTURER'S NAME, MODEL NUMBER, AND THE NAME OF THE BUILDING FROM WHICH IT WAS REMOVED ALONG WITH DATE OF REMOVAL.

LEGEND

⊠	FIRE ALARM VISUAL DEVICE - STROBE ONLY
⊗	FIRE ALARM CEILING MOUNT VISUAL DEVICE - STROBE ONLY
□	FIRE ALARM AUDIO DEVICE
⊠	FIRE ALARM AUDIO DEVICE WITH STROBE
□	FIRE ALARM HORN
⊠	FIRE ALARM HORN WITH STROBE
⊗	FIRE ALARM CEILING MOUNT HORN WITH STROBE
F	FIRE ALARM MANUAL PULL STATION
S	FIRE ALARM SMOKE DETECTOR
H	FIRE ALARM HEAT DETECTOR SUBSCRIPT AS FOLLOWS: R=RATE OF RISE; T=FIXED TEMPERATURE
S_X	FIRE ALARM DUCT SMOKE DETECTOR SUBSCRIPT AS FOLLOWS: S=SUPPLY; R=RETURN
CM	FIRE ALARM CONTROL MODULE
MM	FIRE ALARM MONITOR MODULE
RM	FIRE ALARM RELAY MODULE
FS	FLOW SWITCH
TS	TAMPER SWITCH
	MAGNETIC DOOR HOLDER
R	SMOKE DETECTOR REMOTE INDICATOR / TEST SWITCH
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
SCP	SMOKE CONTROL PANEL
SD	SMOKE DAMPER (EXISTING TO REMAIN)
ES	ELECTRIC SHUTOFF VALVE
	EXISTING MECHANICAL EQUIPMENT
	COMBINATION MOTOR STARTER/SAFETY SWITCH
J	JUNCTION BOX
	PANELBOARD
SCP	SECURITY SYSTEM CONTROL PANEL
N	NEW DEVICE AT NEW LOCATION
RN	REPLACE EXISTING DEVICE WITH NEW DEVICE
XR	EXISTING DEVICE TO REMAIN
RX	REMOVE EXISTING DEVICE

INITIATING DEVICE IDENTIFICATION KEY

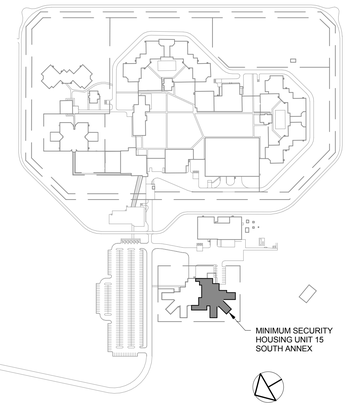
COUNT

BUILDING — DEVICE TYPE

AD	= ADMINISTRATION	F	= SPRINKLER WATERFLOW SWITCH
FM	= FACILITY MAINTENANCE/ WAREHOUSE	M	= MANUAL STATION
FS	= FOOD SERVICE	MS	= POSITION MONITOR SWITCH
HA	= HOUSING 1/2/3/4	H	= HEAT DETECTOR
HB	= HOUSING 5/6	S	= SMOKE DETECTOR
HC	= HOUSING 7/8	SD	= SMOKE DETECTOR - DUCT MOUNTED
HD	= HOUSING 9/10	T	= SPRINKLER VAVLE TAMPER SWITCH
HE	= HOUSING 11/12	X	= SPECIAL SYSTEM MONITOR
HF	= HOUSING 13/14		
HNA	= HOUSING NORTH ANNEX		
HSA	= HOUSING SOUTH ANNEX		
IN	= INDUSTRIES		
MS	= HEALTH/ MEDICAL SERVICES		
PGA	= HIGH SECURITY HOUSING PROGRAM A		
PGB	= MEDIUM SECURITY HOUSING PROGRAM B		
PGC	= MEDIUM SECURITY HOUSING PROGRAM C		
PGD	= MEDIUM SECURITY HOUSING PROGRAM D		
PS	= ACADEMIC/VOCATIONAL EDUCATION		
RS	= RECREATIONAL SERVICES		
SV	= SECURITY/ VISITATION		

1 Minimum Security Housing Unit 15 South Annex - Second Floor - Fire Alarm System
1/8" = 1'-0"

0 4' 8' 16'



SITE KEY PLAN
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SSR Project #: 17671400

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

MINIMUM SECURITY HOUSING UNIT 15 - SOUTH ANNEX - SECOND FLOOR - FIRE ALARM SYSTEM

DRAWN BY:	TV		
DESIGNED BY:	RH		
CHECKED BY:	RH		
PHASE:	CD	DRAWING NO:	FA-1.7B
DATE:	11-08-2019		

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FIRE ALARM SYSTEM PERFORMANCE SCHEDULE - HOUSING 15 - SOUTH

INITIATING DEVICES											
ID#	DESCRIPTION	LOCATION	ACTION UPON INITIATION								REMARKS
HSA-M1	MANUAL STATION	CONTROL DESK	01		04						
HSA-M2	MANUAL STATION	WAITING AREA - EAST EXIT	01		04						
HSA-M3	MANUAL STATION	VISITATION EXIT	01		04						
HSA-M4	MANUAL STATION	ACTIVE DAYROOM EXIT	01		04						
HSA-S1	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01		04						NOTE 2.
HSA-S2	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01		04						NOTE 2.
HSA-S3	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01		04						NOTE 2.
HSA-S4	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01		04						NOTE 2.
HSA-S5	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01		04						NOTE 2.
HSA-S6	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01		04						NOTE 2.
HSA-S7	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01		04						NOTE 2.
HSA-S8	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01		04						NOTE 2.
HSA-S9	SMOKE DETECTOR - CEILING MOUNTED	DAY ROOM	01		04						NOTE 2.
HSA-S10	SMOKE DETECTOR - CEILING MOUNTED	DAY ROOM	01		04						NOTE 2.
HSA-S11	SMOKE DETECTOR - CEILING MOUNTED	N-S CORRODOR	01		04						NOTE 2.
HSA-S12	SMOKE DETECTOR - CEILING MOUNTED	N-S CORRODOR	01		04						NOTE 2.
HSA-S13	SMOKE DETECTOR - CEILING MOUNTED	N-S CORRODOR	01		04						NOTE 2.
HSA-S14	SMOKE DETECTOR - CEILING MOUNTED	E-W CORRIDOR	01		04						NOTE 2.
HSA-S15	SMOKE DETECTOR - CEILING MOUNTED	RECEPTION	01		04						NOTE 2.
HSA-S16	SMOKE DETECTOR - CEILING MOUNTED	WAITING AREA	01		04						NOTE 2.
HSA-S17	SMOKE DETECTOR - CEILING MOUNTED	SALLY PORT	01		04						NOTE 2.
HSA-S18	SMOKE DETECTOR - CEILING MOUNTED	MULTI-PURPOSE ROOM	01		04						NOTE 2.
HSA-S19	SMOKE DETECTOR - CEILING MOUNTED	SPRINKLER RISER ROOM	01		04						NOTE 2.
HSA-S20	SMOKE DETECTOR - CEILING MOUNTED	STORAGE ROOM	01		04						NOTE 2.
HSA-S21	SMOKE DETECTOR - CEILING MOUNTED	ACTIVE DAYROOM	01		04						NOTE 2.
HSA-S22	SMOKE DETECTOR - CEILING MOUNTED	ACTIVE DAYROOM	01		04						NOTE 2.
HSA-S23	SMOKE DETECTOR - CEILING MOUNTED	ACTIVE DAYROOM	01		04						NOTE 2.
HSA-S24	SMOKE DETECTOR - CEILING MOUNTED	ACTIVE DAYROOM	01		04						NOTE 2.
HSA-S25	SMOKE DETECTOR - CEILING MOUNTED	LIBRARY	01		04						NOTE 2.
HSA-S26	SMOKE DETECTOR - CEILING MOUNTED	PASSIVE DAYROOM	01		04						NOTE 2.
HSA-S27	SMOKE DETECTOR - CEILING MOUNTED	STORAGE ROOM	01		04						NOTE 2.
HSA-S28	SMOKE DETECTOR - CEILING MOUNTED	STORAGE ROOM	01		04						NOTE 2.
HSA-S29	SMOKE DETECTOR - CEILING MOUNTED	MEDICAL ROOM	01		04						NOTE 2.
HSA-S30	SMOKE DETECTOR - CEILING MOUNTED	VESTIBULE	01		04						NOTE 2.
HSA-S31	SMOKE DETECTOR - CEILING MOUNTED	VISITATION	01		04						NOTE 2.
HSA-S32	SMOKE DETECTOR - CEILING MOUNTED	VISITATION	01		04						NOTE 2.
HSA-S33	SMOKE DETECTOR - CEILING MOUNTED	VISITATION	01		04						NOTE 2.
HSA-S34	SMOKE DETECTOR - CEILING MOUNTED	VISITATION	01		04						NOTE 2.
HSA-S35	SMOKE DETECTOR - CEILING MOUNTED	VISITATION	01		04						NOTE 2.
HSA-S36	SMOKE DETECTOR - CEILING MOUNTED	VISITATION	01		04						NOTE 2.
HSA-S37	SMOKE DETECTOR - CEILING MOUNTED	VISITATION	01		04						NOTE 2.
HSA-S38	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01		04						NOTE 2.
HSA-S39	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01		04						NOTE 2.
HSA-S40	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01		04						NOTE 2.
HSA-S41	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01		04						NOTE 2.
HSA-S42	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01		04						NOTE 2.
HSA-S43	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01		04						NOTE 2.
HSA-S44	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01		04						NOTE 2.
HSA-S45	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01		04						NOTE 2.
HSA-S46	SMOKE DETECTOR - CEILING MOUNTED	HOUSING UNIT	01		04						NOTE 2.
HSA-S47	SMOKE DETECTOR - CEILING MOUNTED	DAYROOM	01		04						NOTE 2.
HSA-S48	SMOKE DETECTOR - CEILING MOUNTED	DAYROOM	01		04						NOTE 2.
HSA-S49	SMOKE DETECTOR - CEILING MOUNTED	DAYROOM	01		04						NOTE 2.
HSA-S50	SMOKE DETECTOR - CEILING MOUNTED	DAYROOM	01		04						NOTE 2.
HSA-SD1	SMOKE DETECTOR - DUCT MOUNTED	RTU-16 SUPPLY AIR DUCT		02		05					NOTE 2.
HSA-SD2	SMOKE DETECTOR - DUCT MOUNTED	RTU-16 SUPPLY AIR DUCT		02		05					NOTE 2.
HSA-SD3	SMOKE DETECTOR - DUCT MOUNTED	RTU-17 SUPPLY AIR DUCT		02		05					NOTE 2.
HSA-SD4	SMOKE DETECTOR - DUCT MOUNTED	RTU-18 SUPPLY AIR DUCT		02		05					NOTE 2.
HSA-SD5	SMOKE DETECTOR - DUCT MOUNTED	RTU-18 SUPPLY AIR DUCT		02		05					NOTE 2.
HSA-SD6	SMOKE DETECTOR - DUCT MOUNTED	RTU-1A RETURN AIR DUCT		02		05					NOTE 2.
HSA-SD7	SMOKE DETECTOR - DUCT MOUNTED	RTU-2A RETURN AIR DUCT		02		05					NOTE 2.
HSA-SD8	SMOKE DETECTOR - DUCT MOUNTED	RTU-3A RETURN AIR DUCT		02		05					NOTE 2.
HSA-SD9	SMOKE DETECTOR - DUCT MOUNTED	RTU-4A RETURN AIR DUCT		02		05					NOTE 2.
HSA-SD10	SMOKE DETECTOR - DUCT MOUNTED	RTU-5A RETURN AIR DUCT		02		05					NOTE 2.
HSA-SD11	SMOKE DETECTOR - DUCT MOUNTED	RTU-6A RETURN AIR DUCT		02		05					NOTE 2.
HSA-T1	TAMPER SWITCH - SPRINKLER SYSTEM	SPRINKLER RISER ROOM		02							NOTE 1.
HSA-T2	TAMPER SWITCH - SPRINKLER SYSTEM	DAYROOM		02							NOTE 1.
HSA-T3	TAMPER SWITCH - SPRINKLER SYSTEM	POST INDICATOR VALVE		02							NOTE 1.
HSA-T4	TAMPER SWITCH - SPRINKLER SYSTEM	SECOND FLOOR		02							NOTE 1.
HSA-F1	WATERFLOW SWITCH - SPRINKLER SYSTEM	SPRINKLER RISER ROOM	01		04						NOTE 1.
HSA-F2	WATERFLOW SWITCH - SPRINKLER SYSTEM	DAYROOM	01		04						NOTE 1.
HSA-F3	WATERFLOW SWITCH - SPRINKLER SYSTEM	SECOND FLOOR	01		04						NOTE 1.
HSA-H1	HEAT DETECTOR - CEILING MOUNTED	JANITOR CLOSET	01		04						
HSA-H2	HEAT DETECTOR - CEILING MOUNTED	ELECTRICAL ROOM	01		04						
HSA-H3	HEAT DETECTOR - CEILING MOUNTED	STORAGE ROOM	01		04						
HSA-H4	HEAT DETECTOR - CEILING MOUNTED	JANITOR CLOSET	01		04						
HSA-H5	HEAT DETECTOR - CEILING MOUNTED	SERVING	01		04						
HSA-H6	HEAT DETECTOR - CEILING MOUNTED	SERVING	01		04						
HSA-H7	HEAT DETECTOR - CEILING MOUNTED	JANITOR CLOSET	01		04						
HSA-H8	HEAT DETECTOR - CEILING MOUNTED	ELECTRICAL ROOM	01		04						
HSA-H9	HEAT DETECTOR - CEILING MOUNTED	STORAGE ROOM	01		04						

ACTIONS	
AC01	ALARM CONDITION AT CONTROL PANEL
AC02	SUPERVISORY CONDITION AT CONTROL PANEL
AC03	TROUBLE CONDITION AT CONTROL PANEL
AC04	ACTIVATE NOTIFICATION DEVICES
AC05	SHUTDOWN ASSOCIATED HVAC UNIT
AC06	ACTUATE SMOKE DAMPER
AC07	INITIATE CLOSING OF SMOKE BARRIER DOOR
AC08	ACTIVATE UNIT'S SMOKE REMOVAL SYSTEM
AC09	SEND SIGNAL TO BUILDING MANAGEMENT SYSTEM
AC10	

SCHEDULE NOTES:

1 PROVIDE NEW MONITOR MODULE FOR DEVICE INTERFACE.
2 FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.
3
4
5

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SSR Project #: 17671400

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

MINIMUM SECURITY HOUSING UNIT 15 - SOUTH ANNEX - FIRE ALARM SYSTEM PERFORMANCE SCHEDULE

DRAWN BY:	TV
DESIGNED BY:	RH
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PHASE:	CD
DATE:	11-08-2019

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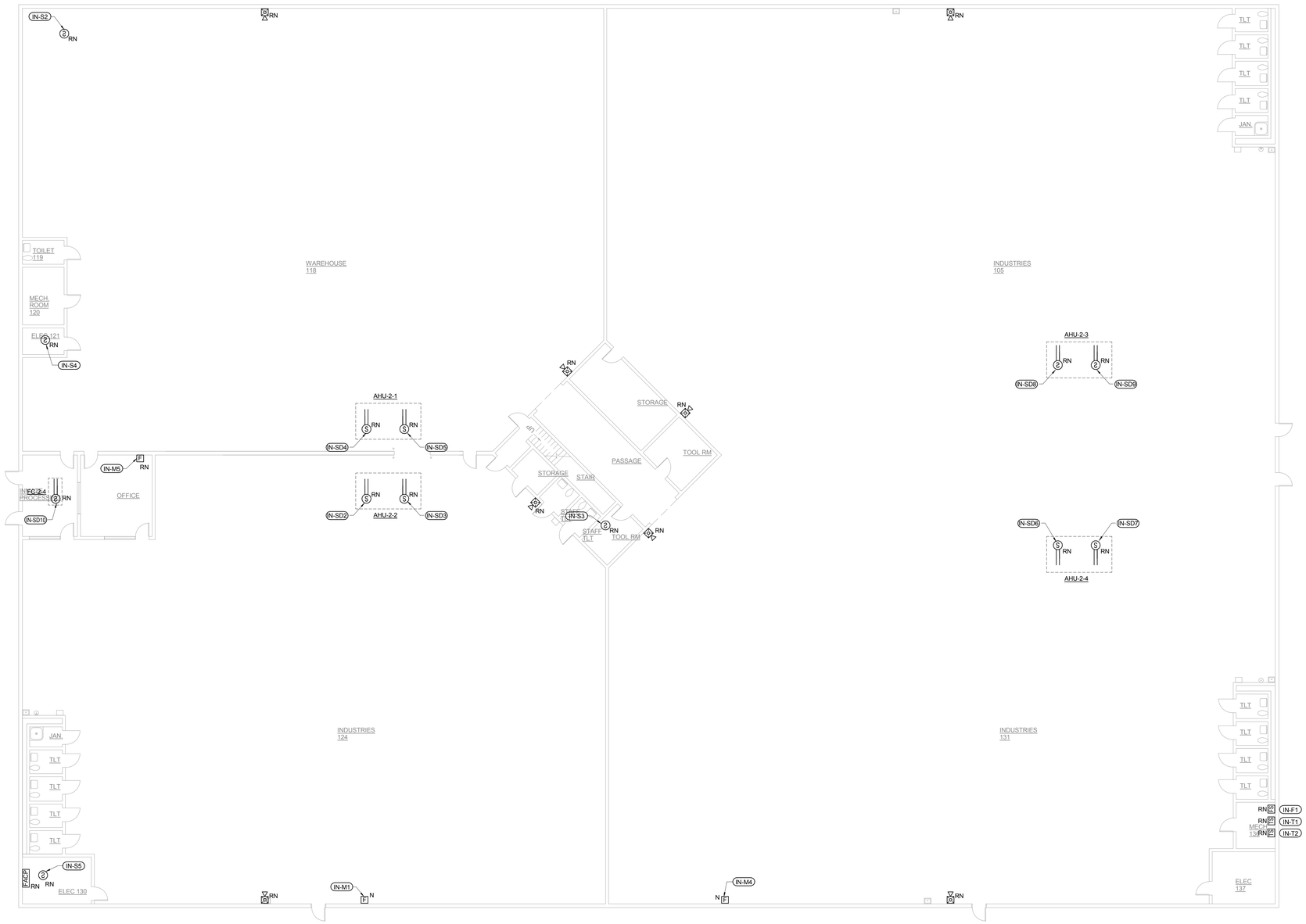
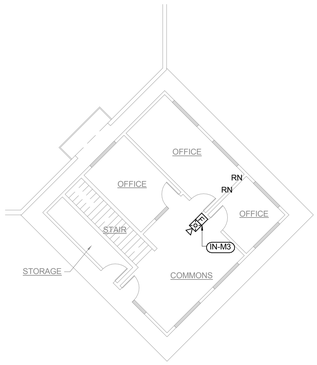


1 Industries Building - Fire Alarm System

3/32" = 1'-0"

0 8' 16' 24'



2 Industries Building - Mezzanine Level - Fire Alarm System

3/32" = 1'-0"

0 8' 16' 24'

INITIATING DEVICE IDENTIFICATION KEY

COUNT

BUILDING

- AD = ADMINISTRATION
- FM = FACILITY MAINTENANCE/ WAREHOUSE
- FS = FOOD SERVICE
- HA = HOUSING 1/2/3/4
- HB = HOUSING 5/6
- HC = HOUSING 7/8
- HD = HOUSING 9/10
- HE = HOUSING 11/12
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- PGD = MEDIUM SECURITY HOUSING PROGRAM D
- PS = ACADEMIC/VOCATIONAL EDUCATION
- RS = RECREATIONAL SERVICES
- SV = SECURITY/ VISITATION

DEVICE TYPE

- F = SPRINKLER WATERFLOW SWITCH
- M = MANUAL STATION
- MS = POSITION MONITOR SWITCH
- H = HEAT DETECTOR
- S = SMOKE DETECTOR
- SD = SMOKE DETECTOR - DUCT MOUNTED
- T = SPRINKLER VAVLE TAMPER SWITCH
- X = SPECIAL SYSTEM MONITOR

LEGEND

	FIRE ALARM VISUAL DEVICE - STROBE ONLY
	FIRE ALARM CEILING MOUNT VISUAL DEVICE - STROBE ONLY
	FIRE ALARM AUDIO DEVICE
	FIRE ALARM AUDIO DEVICE WITH STROBE
	FIRE ALARM HORN
	FIRE ALARM HORN WITH STROBE
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N	NEW DEVICE AT NEW LOCATION
RN	REPLACE EXISTING DEVICE WITH NEW DEVICE
XR	EXISTING DEVICE TO REMAIN
RX	REMOVE EXISTING DEVICE

GENERAL NOTES

A. EXECUTE WORK SO AS TO INTERFERE AS LITTLE AS POSSIBLE WITH NORMAL FACILITY FUNCTIONS. ALL WORK SHALL BE SCHEDULED, PHASED & PERFORMED IN A MANNER SUCH THAT FIRE ALARM MONITORING, INITIATION, NOTIFICATION AND ANNUNCIATION OR FIRE WATCH SERVICE IS MAINTAINED THROUGHOUT THE FACILITY. COORDINATE ANY PERIODS DURING WHICH THE FIRE ALARM SYSTEM OR ANY PORTION THEREOF WILL BE DEACTIVATED WITH THE OWNER AND THE LOCAL FIRE DEPARTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL FIRE WATCH SERVICE WHICH MAY BE REQUIRED.

B. EACH EXISTING BUILDING'S FIRE ALARM SYSTEM SHALL REMAIN IN OPERATION DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM UNTIL SUCH TIME THAT THE BUILDING CAN BE CUT OVER FROM THE EXISTING SYSTEM TO THE NEW SYSTEM. IN LIEU OF KEEPING A BUILDING'S EXISTING FIRE ALARM SYSTEM OPERATIONAL UNTIL ITS NEW SYSTEM IS OPERATIONAL, THE CONTRACTOR MAY, IF ACCEPTABLE TO THE OWNER, PROVIDE FIRE WATCH SERVICE IN THE BUILDING FOR THE DURATION OF THE SYSTEM REPLACEMENT IN THAT BUILDING.

C. REMOVE ALL EXISTING FIRE ALARM SYSTEM WIRING. ALL NEW FIRE ALARM SYSTEM WIRING SHALL BE RUN IN NEW CONDUIT RACEWAYS UNLESS INDICATED OTHERWISE. CONDUIT SHALL BE EMT TYPE WITH COMPRESSION TYPE FITTINGS. EXISTING ABANDONED FIRE ALARM SYSTEM RACEWAYS MAY REMAIN AND MAY BE REUSED IN PLACE FOR NEW FIRE ALARM SYSTEM WIRING. ALL CONDUIT SHALL BE ATTACHED USING TWO-HOLE CONDUIT STRAPS & TAMPER RESISTANT SCREWS.

D. EXISTING RACEWAYS AND JUNCTION BOXES THAT ARE ABANDONED AS A RESULT OF THE WORK AND WILL NOT BE REUSED SHALL BE REMOVED. EXISTING CONDUCTORS IN SUCH RACEWAYS SHALL BE REMOVED BACK TO THE NEAREST "LIVE" JUNCTION BOX.

E. PAINT ALL NEW EXPOSED RACEWAYS TO MATCH SURROUNDING SURFACE. PAINT COLORS AND TYPES SHALL BE AS DIRECTED BY THE OWNER.

F. ALL JUNCTION, TERMINAL AND PULL BOXES (WHERE ALLOWED), INCLUDING COVERS SHALL BE PAINTED RED TO MATCH CONDUIT. ALL COVERS SHALL BE IDENTIFIED WITH PHENOLIC ENGRAVED NAME PLATE LABELED BY ZONE AND CIRCUIT CONTAINED THEREIN AND ATTACHED TO COVER WITH MINIMUM OF TWO SCREWS.

G. REPLACEMENT OF HVAC DUCT MOUNTED SMOKE DETECTORS SHALL INCLUDE DETECTOR, HOUSING & SAMPLING TUBES. FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.

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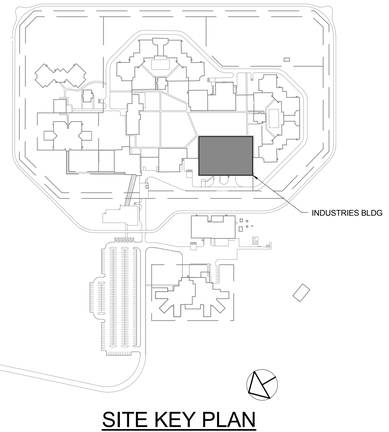

SITE KEY PLAN

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No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

INDUSTRIES BUILDING - FIRE ALARM SYSTEM

DRAWN BY:	TV	
DESIGNED BY:	RH	
CHECKED BY:	RH	
PHASE:	CD	DRAWING NO: FA-1.8A
DATE:	11-08-2019	

TV

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FIRE ALARM SYSTEM PERFORMANCE SCHEDULE - INDUSTRIES BUILDING G

INITIATING DEVICES												
ID#	DESCRIPTION	LOCATION	ACTION UPON INITIATION									REMARKS
IN-M1	MANUAL STATION	INDUSTRIES NORTH WEST EXIT	01			04						
IN-M2	NOT USED											
IN-M3	MANUAL STATION	MEZZANINE LEVEL	01			04						
IN-M4	MANUAL STATION	INDUSTRIES NORTH WEST EXIT	01			04						
IN-M5	MANUAL STATION	OFFICE	01			04						
IN-SD1	NOT USED											
IN-SD2	SMOKE DETECTOR - DUCT MOUNTED	AHU-2-2 SUPPLY AIR DUCT		02			05					NOTE 2.
IN-SD3	SMOKE DETECTOR - DUCT MOUNTED	AHU-2-2 RETURN AIR DUCT		02			05					NOTE 2.
IN-SD4	SMOKE DETECTOR - DUCT MOUNTED	AHU-2-1 SUPPLY AIR DUCT		02			05					NOTE 2.
IN-SD5	SMOKE DETECTOR - DUCT MOUNTED	AHU-2-1 RETURN AIR DUCT		02			05					NOTE 2.
IN-SD6	SMOKE DETECTOR - DUCT MOUNTED	AHU-2-4 SUPPLY AIR DUCT		02			05					NOTE 2.
IN-SD7	SMOKE DETECTOR - DUCT MOUNTED	AHU-2-4 RETURN AIR DUCT		02			05					NOTE 2.
IN-SD8	SMOKE DETECTOR - DUCT MOUNTED	AHU-2-3 SUPPLY AIR DUCT		02			05					NOTE 2.
IN-SD9	SMOKE DETECTOR - DUCT MOUNTED	AHU-2-3 RETURN AIR DUCT		02			05					NOTE 2.
IN-SD10	SMOKE DETECTOR - DUCT MOUNTED	FC-2-4 DUCT		02			05					NOTE 2.
IN-S1	NOT USED											
IN-S2	SMOKE DETECTOR - CEILING MOUNTED	WAREHOUSE		02				07				NOTE 2.
IN-S3	SMOKE DETECTOR - CEILING MOUNTED	TOOL ROOM		02				07				NOTE 2.
IN-S4	SMOKE DETECTOR - CEILING MOUNTED	ELECTRICAL ROOM		02				07				NOTE 2.
IN-S5	SMOKE DETECTOR - CEILING MOUNTED	ELECTRICAL ROOM		02				07				NOTE 2.
IN-T1	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02								
IN-T2	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02								
IN-T3	TAMPER SWITCH - SPRINKLER SYSTEM			02								
IN-T4	TAMPER SWITCH - SPRINKLER SYSTEM			02								
IN-F1	WATERFLOW SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM	01			04						
ACTIONS												
AC01	ALARM CONDITION AT CONTROL PANEL											
AC02	SUPERVISORY CONDITION AT CONTROL PANEL											
AC03	TROUBLE CONDITION AT CONTROL PANEL											
AC04	ACTIVATE NOTIFICATION DEVICES											
AC05	SHUTDOWN ASSOCIATED HVAC UNIT											
AC06	ACTUATE SMOKE DAMPER											
AC07	INITIATE CLOSING OF SMOKE BARRIER DOOR											
AC08	ACTIVATE UNIT'S SMOKE REMOVAL SYSTEM											
AC09	SEND SIGNAL TO BUILDING MANAGEMENT SYSTEM											
AC10												

SCHEDULE NOTES:

1 PROVIDE NEW MONITOR MODULE FOR DEVICE INTERFACE.
2 FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.
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SSR Project #: 17671400

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

INDUSTRIES BUILDING - FIRE ALARM SYSTEM PERFORMANCE SCHEDULE

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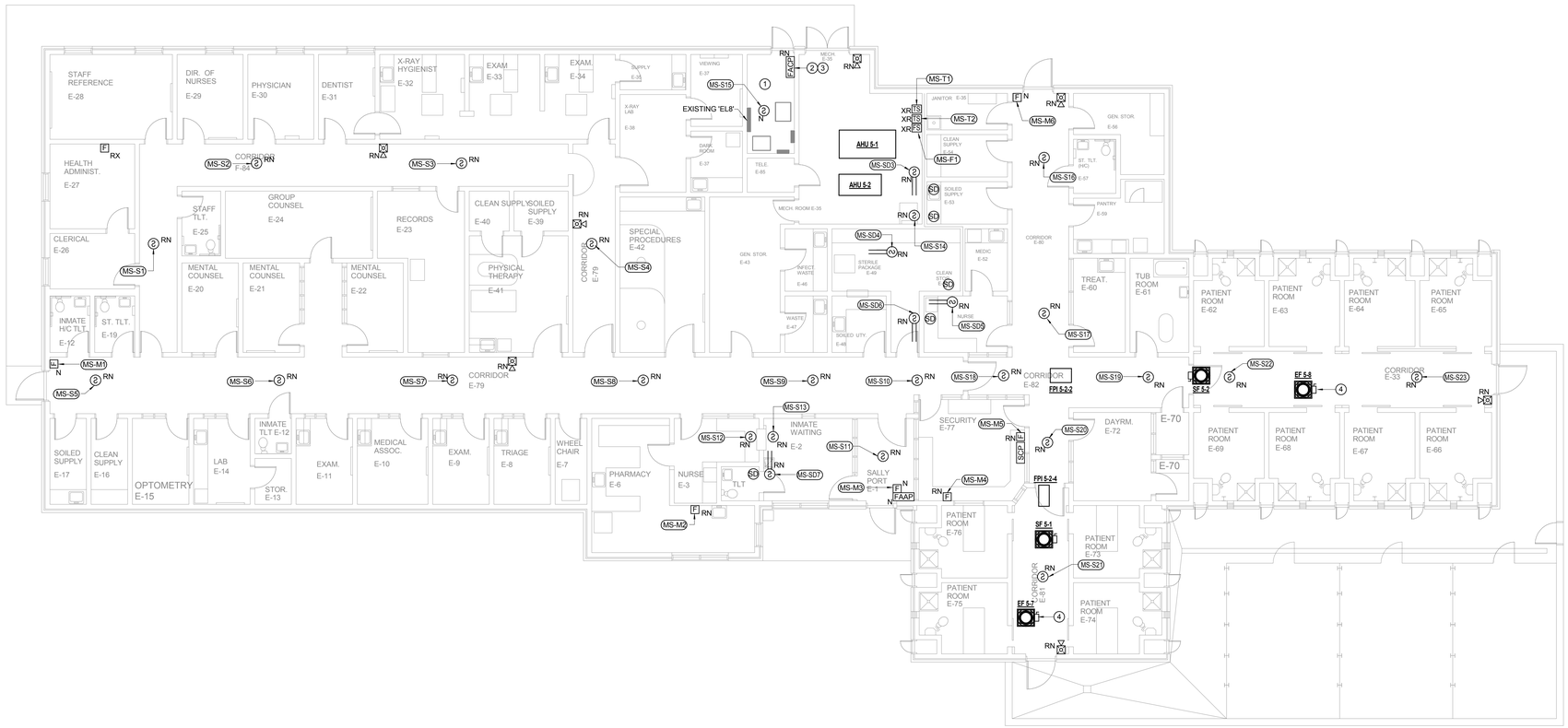

1 Health Services Building - Fire Alarm System

1/8" = 1'-0"

LEGEND

⊠	FIRE ALARM VISUAL DEVICE - STROBE ONLY
⊗	FIRE ALARM CEILING MOUNT VISUAL DEVICE - STROBE ONLY
□	FIRE ALARM AUDIO DEVICE
⊠	FIRE ALARM AUDIO DEVICE WITH STROBE
□	FIRE ALARM HORN
⊠	FIRE ALARM HORN WITH STROBE
⊗	FIRE ALARM CEILING MOUNT HORN WITH STROBE
F	FIRE ALARM MANUAL PULL STATION
②	FIRE ALARM SMOKE DETECTOR
H	FIRE ALARM HEAT DETECTOR SUBSCRIPT AS FOLLOWS: R=RATE OF RISE; T=FIXED TEMPERATURE
⊙X	FIRE ALARM DUCT SMOKE DETECTOR SUBSCRIPT AS FOLLOWS: S=SUPPLY; R=RETURN
CM	FIRE ALARM CONTROL MODULE
MM	FIRE ALARM MONITOR MODULE
RM	FIRE ALARM RELAY MODULE
FS	FLOW SWITCH
TS	TAMPER SWITCH
◪	MAGNETIC DOOR HOLDER
R	SMOKE DETECTOR REMOTE INDICATOR / TEST SWITCH
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
SCP	SMOKE CONTROL PANEL
SD	SMOKE DAMPER (EXISTING TO REMAIN)
ES	ELECTRIC SHUTOFF VALVE
[ ]	EXISTING MECHANICAL EQUIPMENT
⊠	COMBINATION MOTOR STARTER/SAFETY SWITCH
J	JUNCTION BOX
	PANELBOARD
SCP	SECURITY SYSTEM CONTROL PANEL
N	NEW DEVICE AT NEW LOCATION
RN	REPLACE EXISTING DEVICE WITH NEW DEVICE
XR	EXISTING DEVICE TO REMAIN
RX	REMOVE EXISTING DEVICE

INITIATING DEVICE IDENTIFICATION KEY

BUILDING — COUNT — DEVICE TYPE

AD	= ADMINISTRATION	F	= SPRINKLER WATERFLOW SWITCH
FM	= FACILITY MAINTENANCE/ WAREHOUSE	M	= MANUAL STATION
FS	= FOOD SERVICE	MS	= POSITION MONITOR SWITCH
HA	= HOUSING 1/2/3/4	H	= HEAT DETECTOR
HB	= HOUSING 5/6	S	= SMOKE DETECTOR
HC	= HOUSING 7/8	SD	= SMOKE DETECTOR - DUCT MOUNTED
HD	= HOUSING 9/10	T	= SPRINKLER VAVLE TAMPER SWITCH
HE	= HOUSING 11/12	X	= SPECIAL SYSTEM MONITOR
HF	= HOUSING 13/14		
HNA	= HOUSING NORTH ANNEX		
HSA	= HOUSING SOUTH ANNEX		
IN	= INDUSTRIES		
MS	= HEALTH/ MEDICAL SERVICES		
PGA	= HIGH SECURITY HOUSING PROGRAM A		
PGB	= MEDIUM SECURITY HOUSING PROGRAM B		
PGC	= MEDIUM SECURITY HOUSING PROGRAM C		
PGD	= MEDIUM SECURITY HOUSING PROGRAM D		
PS	= ACADEMIC/VOCATIONAL EDUCATION		
RS	= RECREATIONAL SERVICES		
SV	= SECURITY/ VISITATION		

FIRE ALARM SYSTEM PERFORMANCE SCHEDULE - HEALTH SERVICES BUILDING C

INITIATING DEVICES ID#	DESCRIPTION	LOCATION	ACTION UPON INITIATION							REMARKS
MS-M1	MANUAL STATION	NORTH EXIT	01		04					
MS-M2	MANUAL STATION	PHARMACY	01		04					
MS-M3	MANUAL STATION	WEST SALLY PORT	01		04					
MS-M4	MANUAL STATION	SECURITY	01		04					
MS-M5	MANUAL STATION	SECURITY	01		04					
MS-M6	MANUAL STATION	EAST EXIT	01		04					
MS-SD1	NOT USED									
MS-SD2	NOT USED									
MS-SD3	SMOKE DETECTOR - DUCT MOUNTED			02		05				NOTE 2.
MS-SD4	SMOKE DETECTOR - DUCT MOUNTED			02		05	06			NOTE 2.
MS-SD5	SMOKE DETECTOR - DUCT MOUNTED			02		05	06			NOTE 2.
MS-SD6	SMOKE DETECTOR - DUCT MOUNTED			02		05	06			NOTE 2.
MS-SD7	SMOKE DETECTOR - DUCT MOUNTED			02		05	06			NOTE 2.
MS-S1	SMOKE DETECTOR - CEILING MOUNTED	NORTHWEST CORRIDOR	01		04					NOTE 2.
MS-S2	SMOKE DETECTOR - CEILING MOUNTED	NORTHWEST CORRIDOR	01		04					NOTE 2.
MS-S3	SMOKE DETECTOR - CEILING MOUNTED	NORTHWEST CORRIDOR	01		04					NOTE 2.
MS-S4	SMOKE DETECTOR - CEILING MOUNTED	NORTHWEST CORRIDOR	01		04					NOTE 2.
MS-S5	SMOKE DETECTOR - CEILING MOUNTED	WEST CORRIDOR	01		04					NOTE 2.
MS-S6	SMOKE DETECTOR - CEILING MOUNTED	WEST CORRIDOR	01		04					NOTE 2.
MS-S7	SMOKE DETECTOR - CEILING MOUNTED	WEST CORRIDOR	01		04					NOTE 2.
MS-S8	SMOKE DETECTOR - CEILING MOUNTED	WEST CORRIDOR	01		04					NOTE 2.
MS-S9	SMOKE DETECTOR - CEILING MOUNTED	WEST CORRIDOR	01		04					NOTE 2.
MS-S10	SMOKE DETECTOR - CEILING MOUNTED	WEST CORRIDOR	01		04					NOTE 2.
MS-S11	SMOKE DETECTOR - CEILING MOUNTED	SALLY PORT	01		04					NOTE 2.
MS-S12	SMOKE DETECTOR - CEILING MOUNTED	SMOKE DAMPER	01		04					NOTE 2.
MS-S13	SMOKE DETECTOR - CEILING MOUNTED	SMOKE DAMPER	01		04					NOTE 2.
MS-S14	SMOKE DETECTOR - CEILING MOUNTED	MECHANICAL ROOM	01		04					NOTE 2.
MS-S15	SMOKE DETECTOR - CEILING MOUNTED	ELECTRICAL ROOM	01		04					NOTE 2.
MS-S16	SMOKE DETECTOR - CEILING MOUNTED	EAST CORRIDOR	01		04					NOTE 2.
MS-S17	SMOKE DETECTOR - CEILING MOUNTED	EAST CORRIDOR	01		04					NOTE 2.
MS-S18	SMOKE DETECTOR - CEILING MOUNTED	EAST CORRIDOR	01		04					NOTE 2.
MS-S19	SMOKE DETECTOR - CEILING MOUNTED	EAST CORRIDOR	01		04					NOTE 2.
MS-S20	SMOKE DETECTOR - CEILING MOUNTED	EAST CORRIDOR	01		04					NOTE 2.
MS-S21	SMOKE DETECTOR - CEILING MOUNTED	SOUTH PATIENT CORRIDOR	01		04					NOTE 2.
MS-S22	SMOKE DETECTOR - CEILING MOUNTED	EAST PATIENT CORRIDOR	01		04					NOTE 2.
MS-S23	SMOKE DETECTOR - CEILING MOUNTED	EAST PATIENT CORRIDOR								NOTE 2.
MS-T1	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02						NOTE 1.
MS-T2	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02						NOTE 1.
MS-T3	TAMPER SWITCH - SPRINKLER SYSTEM	POST INDICATOR VALVE		02						NOTE 1.
MS-F1	WATERFLOW SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM	01		04					NOTE 1.

ACTIONS	
AC01	ALARM CONDITION AT CONTROL PANEL
AC02	SUPERVISORY CONDITION AT CONTROL PANEL
AC03	TROUBLE CONDITION AT CONTROL PANEL
AC04	ACTIVATE NOTIFICATION DEVICES
AC05	SHUTDOWN ASSOCIATED HVAC UNIT
AC06	ACTUATE SMOKE DAMPER
AC07	INITIATE CLOSING OF SMOKE BARRIER DOOR
AC08	ACTIVATE UNIT'S SMOKE REMOVAL SYSTEM
AC09	SEND SIGNAL TO BUILDING MANAGEMENT SYSTEM
AC10	

SCHEDULE NOTES:
1 PROVIDE NEW MONITOR MODULE FOR DEVICE INTERFACE.
2 FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.
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4
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KEYED NOTES

1. LOCATION OF EXISTING MAINTENANCE NETWORK SWITCH AND PATCH PANEL. REPLACE EXISTING SWITCH WITH NEW UL 864 LISTED SWITCH UNIT. PROVIDE ETHERNET CONNECTION OF NEW FIRE ALARM CONTROL PANEL. COORDINATE ALL DIGITAL NETWORK WORK WITH OWNER'S INFORMATION TECHNOLOGY DIVISION..
2. PROVIDE 120V CONNECTION TO NEW FIRE ALARM CONTROL PANEL FROM THE EXISTING 120V CIRCUIT THAT PRESENTLY SERVES THE EXISTING FIRE ALARM CONTROL PANEL THAT IS BEING REMOVED. REPLACE EXISTING CIRCUIT CONDUCTORS WITH NEW AND EXTEND CIRCUIT TO NEW LOCATION AS REQUIRED. INSTALL RED HANDLE LOCK ON BRANCH CIRCUIT BREAKER & IDENTIFY BREAKER AS SERVING `FIRE ALARM SYSTEM'.
3. NEW FIRE ALARM CONTROL PANEL SHALL COMMUNICATE DIGITALLY WITH THE NEW PROPRIETARY SUPERVISING ALARM WORKSTATION THAT IS BEING INSTALLED IN THE CENTRAL CONTROL ROOM LOCATED IN THE SECURITY/VISITATION BUILDING (SEE SHEET FA-1.13). COMMUNICATIONS SHALL BE ACCOMPLISHED BY ETHERNET CONNECTION TO THE FACILITY'S EXISTING `MAINTENANCE` LOCAL AREA NETWORK. COORDINATE EXISTING PATCH PANEL LOCATION, ETHERNET PORT ASSIGNMENT, IP ADDRESS ASSIGNMENT, ETC. WITH THE OWNER'S INFORMATION TECHNOLOGY DIVISION.
4. EXISTING SMOKE EVACUATION FAN ON ROOF. INTERLOCK FAN CONTROL WITH THE NEW BUILDING FIRE ALARM SYSTEM SO THAT WHEN DESIGNATED SMOKE DETECTORS ARE INITIATED, THE EXISTING HVAC SYSTEM'S SMOKE REMOVAL CONTROL SEQUENCE WILL BE INITIATED. INSTALL A POSITION MONITOR SWITCH ON THE EXISTING DISCONNECT SWITCH OF THE FAN AND CONNECT TO FIRE ALARM SYSTEM.

GENERAL NOTES

A. EXECUTE WORK SO AS TO INTERFERE AS LITTLE AS POSSIBLE WITH NORMAL FACILITY FUNCTIONS. ALL WORK SHALL BE SCHEDULED, PHASED & PERFORMED IN A MANNER SUCH THAT FIRE ALARM MONITORING, INITIATION, NOTIFICATION AND ANNUNCIATION OR FIRE WATCH SERVICE IS MAINTAINED THROUGHOUT THE FACILITY. COORDINATE ANY PERIODS DURING WHICH THE FIRE ALARM SYSTEM OR ANY PORTION THEREOF WILL BE DEACTIVATED WITH THE OWNER AND THE LOCAL FIRE DEPARTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL FIRE WATCH SERVICE WHICH MAY BE REQUIRED.

B. EACH EXISTING BUILDING'S FIRE ALARM SYSTEM SHALL REMAIN IN OPERATION DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM UNTIL SUCH TIME THAT THE BUILDING CAN BE CUT OVER FROM THE EXISTING SYSTEM TO THE NEW SYSTEM. IN LIEU OF KEEPING A BUILDING'S EXISTING FIRE ALARM SYSTEM OPERATIONAL UNTIL ITS NEW SYSTEM IS OPERATIONAL; THE CONTRACTOR MAY, IF ACCEPTABLE TO THE OWNER, PROVIDE FIRE WATCH SERVICE IN THE BUILDING FOR THE DURATION OF THE SYSTEM REPLACEMENT IN THAT BUILDING.

C. REMOVE ALL EXISTING FIRE ALARM SYSTEM WIRING. ALL NEW FIRE ALARM SYSTEM WIRING SHALL BE RUN IN NEW CONDUIT RACEWAYS UNLESS INDICATED OTHERWISE. CONDUIT SHALL BE EMT TYPE WITH COMPRESSION TYPE FITTINGS. EXISTING ABANDONED FIRE ALARM SYSTEM RACEWAYS MAY REMAIN AND MAY BE REUSED IN PLACE FOR NEW FIRE ALARM SYSTEM WIRING. ALL CONDUIT SHALL BE ATTACHED USING TWO-HOLE CONDUIT STRAPS & TAMPER RESISTANT SCREWS.

D. EXISTING RACEWAYS AND JUNCTION BOXES THAT ARE ABANDONED AS A RESULT OF THE WORK AND WILL NOT BE REUSED SHALL BE REMOVED. EXISTING CONDUCTORS IN SUCH RACEWAYS SHALL BE REMOVED BACK TO THE NEAREST "LIVE" JUNCTION BOX.

E. PAINT ALL NEW EXPOSED RACEWAYS TO MATCH SURROUNDING SURFACE. PAINT COLORS AND TYPES SHALL BE AS DIRECTED BY THE OWNER.

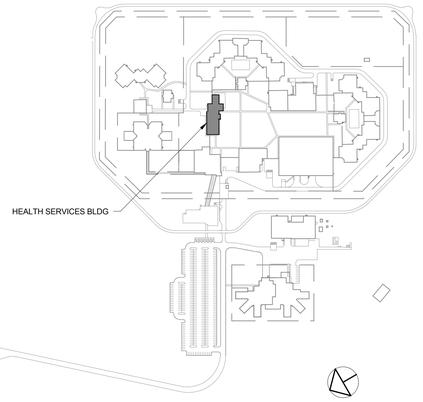
F. ALL JUNCTION, TERMINAL AND PULL BOXES (WHERE ALLOWED) INCLUDING COVERS SHALL BE PAINTED RED TO MATCH CONDUIT. ALL COVERS SHALL BE IDENTIFIED WITH PHENOLIC ENGRAVED NAME PLATE LABELED BY ZONE AND CIRCUIT CONTAINED THEREIN AND ATTACHED TO COVER WITH MINIMUM OF TWO SCREWS.

G. REPLACEMENT OF HVAC DUCT MOUNTED SMOKE DETECTORS SHALL INCLUDE DETECTOR, HOUSING & SAMPLING TUBES. FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.

H. FUNCTIONALITY OF REPLACEMENT CEILING MOUNTED SMOKE DETECTORS WITH REGARD TO SIGNALING, SHUTDOWN ACTUATION OF ASSOCIATED DOORS, SMOKE DAMPERS, ETC. SHALL REMAIN UNCHANGED.

I. NO EXISTING FIRE ALARM SYSTEMS, CONTROL PANELS, COMPONENTS OR WIRING ARE TO REMAIN (WITH THE EXCEPTION OF SPRINKLER WATERFLOW SWITCHES AND SPRINKLER VALVE TAMPER SWITCHES) REGARDLESS OF AGE OR WARRANTY STATUS.

J. FOLLOWING THEIR REMOVAL, ALL EXISTING FIRE ALARM CONTROL PANELS SHALL BE BOXED WITH PROTECTIVE BUBBLE-WRAP PACKING AND DELIVERED TO THE OWNER AT THEIR DESIGNATED ONSITE STORAGE LOCATION. EACH BOXED PANEL SHALL BE LABELED WITH THE MANUFACTURER'S NAME, MODEL NUMBER, AND THE NAME OF THE BUILDING FROM WHICH IT WAS REMOVED ALONG WITH DATE OF REMOVAL.



SITE KEY PLAN

NOT TO SCALE

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SSR Project #: 17671400

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TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

HEALTH SERVICES BUILDING - FIRE ALARM SYSTEM

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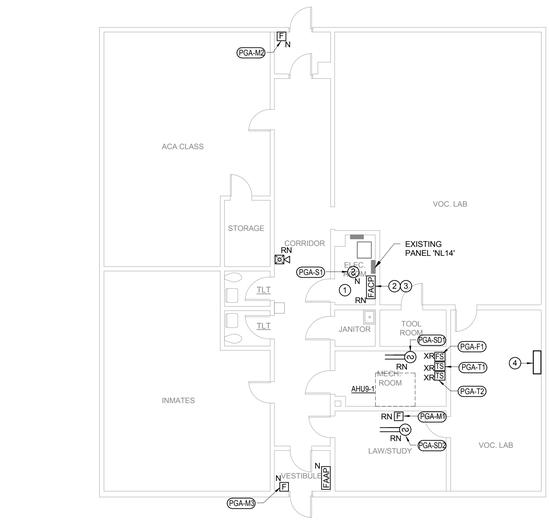
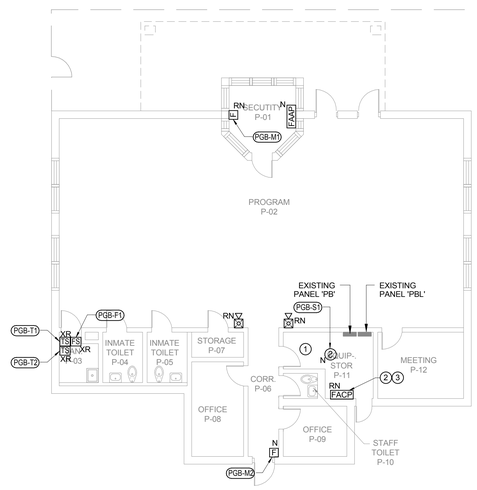


1 High Security Housing Program Building A - Fire Alarm System

1/8" = 1'-0"

0 4' 8' 16'



2 Medium Security Housing Program Building B - Fire Alarm System

1/8" = 1'-0"

0 4' 8' 16'

FIRE ALARM SYSTEM PERFORMANCE SCHEDULE - PROGRAM BUILDING W

INITIATING DEVICES ID#	DESCRIPTION	LOCATION	ACTION UPON INITIATION										REMARKS
PGA-M1	MANUAL STATION	LAW/STUDY ROOM	01			04							
PGA-M2	MANUAL STATION	EAST EXIT	01			04							
PGA-M3	MANUAL STATION	WEST EXIT	01			04							
PGA-SD1	SMOKE DETECTOR - DUCT MOUNTED	AHU9-1 SUPPLY AIR DUCT		02			05						NOTE 2.
PGA-SD2	SMOKE DETECTOR - DUCT MOUNTED	AHU9-1 RETURN DUCT		02			05						NOTE 2.
PGA-S1	SMOKE DETECTOR - CEILING MOUNTED	ELECTRICAL ROOM	01			04							NOTE 2.
PGA-T1	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02									NOTE 1.
PGA-T2	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02									NOTE 1.
PGA-T3	TAMPER SWITCH - SPRINKLER SYSTEM	POST INDICATOR VALVE		02									NOTE 1.
PGA-F1	WATERFLOW SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM	01			04							NOTE 1.

ACTIONS	
AC01	ALARM CONDITION AT CONTROL PANEL
AC02	SUPERVISORY CONDITION AT CONTROL PANEL
AC03	TROUBLE CONDITION AT CONTROL PANEL
AC04	ACTIVATE NOTIFICATION DEVICES
AC05	SHUTDOWN ASSOCIATED HVAC UNIT
AC06	ACTUATE SMOKE DAMPER
AC07	INITIATE CLOSING OF SMOKE BARRIER DOOR
AC08	ACTIVATE UNIT'S SMOKE REMOVAL SYSTEM
AC09	SEND SIGNAL TO BUILDING MANAGEMENT SYSTEM
AC10	

SCHEDULE NOTES:
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FIRE ALARM SYSTEM PERFORMANCE SCHEDULE - PROGRAM BUILDING X

INITIATING DEVICES ID#	DESCRIPTION	LOCATION	ACTION UPON INITIATION										REMARKS
PGB-M1	MANUAL STATION	SECURITY ROOM	01			04							
PGB-M2	MANUAL STATION	WEST EXIT	01			04							
PGB-S1	SMOKE DETECTOR - CEILING MOUNTED	ELECTRICAL ROOM	01			04							NOTE 2.
PGB-T1	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02									NOTE 1.
PGB-T2	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02									NOTE 1.
PGB-T3	TAMPER SWITCH - SPRINKLER SYSTEM	POST INDICATOR VALVE		02									NOTE 1.
PGB-F1	WATERFLOW SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM	01			04							NOTE 1.

ACTIONS	
AC01	ALARM CONDITION AT CONTROL PANEL
AC02	SUPERVISORY CONDITION AT CONTROL PANEL
AC03	TROUBLE CONDITION AT CONTROL PANEL
AC04	ACTIVATE NOTIFICATION DEVICES
AC05	SHUTDOWN ASSOCIATED HVAC UNIT
AC06	ACTUATE SMOKE DAMPER
AC07	INITIATE CLOSING OF SMOKE BARRIER DOOR
AC08	ACTIVATE UNIT'S SMOKE REMOVAL SYSTEM
AC09	SEND SIGNAL TO BUILDING MANAGEMENT SYSTEM
AC10	

SCHEDULE NOTES:
1 PROVIDE NEW MONITOR MODULE FOR DEVICE INTERFACE.
2 FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.
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KEYED NOTES

1. LOCATION OF EXISTING MAINTENANCE NETWORK SWITCH AND PATCH PANEL. REPLACE EXISTING SWITCH WITH NEW UL 864 LISTED SWITCH UNIT. PROVIDE ETHERNET CONNECTION OF NEW FIRE ALARM CONTROL PANEL. COORDINATE ALL DIGITAL NETWORK WORK WITH OWNER'S INFORMATION TECHNOLOGY DIVISION..
2. PROVIDE 120V CONNECTION TO NEW FIRE ALARM CONTROL PANEL FROM THE EXISTING 120V CIRCUIT THAT PRESENTLY SERVES THE EXISTING FIRE ALARM CONTROL PANEL THAT IS BEING REMOVED. REPLACE EXISTING CIRCUIT CONDUCTORS WITH NEW AND EXTEND CIRCUIT TO NEW LOCATION AS REQUIRED. INSTALL RED HANDLE LOCK ON BRANCH CIRCUIT BREAKER & IDENTIFY BREAKER AS SERVING 'FIRE ALARM SYSTEM'.
3. NEW FIRE ALARM CONTROL PANEL SHALL COMMUNICATE DIGITALLY WITH THE NEW PROPRIETARY SUPERVISING ALARM WORKSTATION THAT IS BEING INSTALLED IN THE CENTRAL CONTROL ROOM LOCATED IN THE SECURITY/VISITATION BUILDING (SEE SHEET FA-1.13). COMMUNICATIONS SHALL BE ACCOMPLISHED BY ETHERNET CONNECTION TO THE FACILITY'S EXISTING 'MAINTENANCE' LOCAL AREA NETWORK. COORDINATE EXISTING PATCH PANEL LOCATION, ETHERNET PORT ASSIGNMENT, IP ADDRESS ASSIGNMENT, ETC. WITH THE OWNER'S INFORMATION TECHNOLOGY DIVISION.
4. NEW SYSTEM MONITOR WORKSTATION IN FACILITY SAFETY OFFICER'S OFFICE. PROVIDE NEW 120V CIRCUIT FORM EXISTING ELECTRICAL PANEL. INSTALL RED HANDLE LOCK ON CIRCUIT BREAKER & IDENTIFY BREAKER AS SERVING SYSTEM MONITOR WORKSTATION.

GENERAL NOTES

A. EXECUTE WORK SO AS TO INTERFERE AS LITTLE AS POSSIBLE WITH NORMAL FACILITY FUNCTIONS. ALL WORK SHALL BE SCHEDULED, PHASED & PERFORMED IN A MANNER SUCH THAT FIRE ALARM MONITORING, INITIATION, NOTIFICATION AND ANNUNCIATION OR FIRE WATCH SERVICE IS MAINTAINED THROUGHOUT THE FACILITY. COORDINATE ANY PERIODS DURING WHICH THE FIRE ALARM SYSTEM OR ANY PORTION THEREOF WILL BE DEACTIVATED WITH THE OWNER AND THE LOCAL FIRE DEPARTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL FIRE WATCH SERVICE WHICH MAY BE REQUIRED.

B. EACH EXISTING BUILDING'S FIRE ALARM SYSTEM SHALL REMAIN IN OPERATION DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM UNTIL SUCH TIME THAT THE BUILDING CAN BE CUT OVER FROM THE EXISTING SYSTEM TO THE NEW SYSTEM. IN LIEU OF KEEPING A BUILDING'S EXISTING FIRE ALARM SYSTEM OPERATIONAL UNTIL ITS NEW SYSTEM IS OPERATIONAL;: THE CONTRACTOR MAY, IF ACCEPTABLE TO THE OWNER, PROVIDE FIRE WATCH SERVICE IN THE BUILDING FOR THE DURATION OF THE SYSTEM REPLACEMENT IN THAT BUILDING.

C. REMOVE ALL EXISTING FIRE ALARM SYSTEM WIRING. ALL NEW FIRE ALARM SYSTEM WIRING SHALL BE RUN IN NEW CONDUIT RACEWAYS UNLESS INDICATED OTHERWISE. CONDUIT SHALL BE EMT TYPE WITH COMPRESSION TYPE FITTINGS. EXISTING ABANDONED FIRE ALARM SYSTEM RACEWAYS MAY REMAIN AND MAY BE REUSED IN PLACE FOR NEW FIRE ALARM SYSTEM WIRING. ALL CONDUIT SHALL BE ATTACHED USING TWO-HOLE CONDUIT STRAPS & TAMPER RESISTANT SCREWS.

D. EXISTING RACEWAYS AND JUNCTION BOXES THAT ARE ABANDONED AS A RESULT OF THE WORK AND WILL NOT BE REUSED SHALL BE REMOVED. EXISTING CONDUCTORS IN SUCH RACEWAYS SHALL BE REMOVED BACK TO THE NEAREST "LIVE" JUNCTION BOX.

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LEGEND

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	FIRE ALARM CEILING MOUNT VISUAL DEVICE - STROBE ONLY
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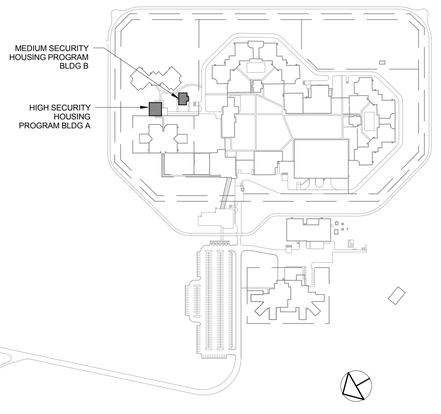

SITE KEY PLAN

NOT TO SCALE

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SSR Project #: 17671400

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

HIGH & MEDIUM SECURITY HOUSING PROGRAM BUILDINGS - FIRE ALARM SYSTEM

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DESIGNED BY:	RH	
CHECKED BY:	RH	
PHASE:	CD	DRAWING NO:
DATE:	11-08-2019	FA-1.10A

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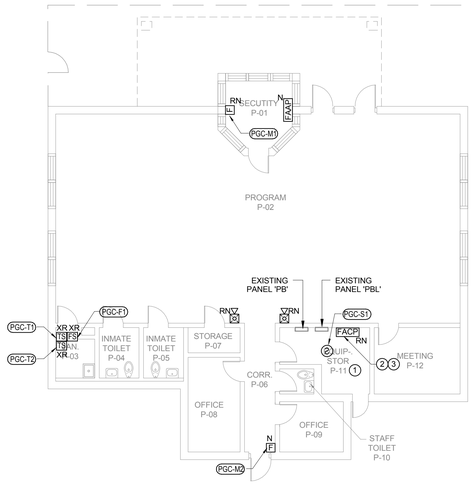
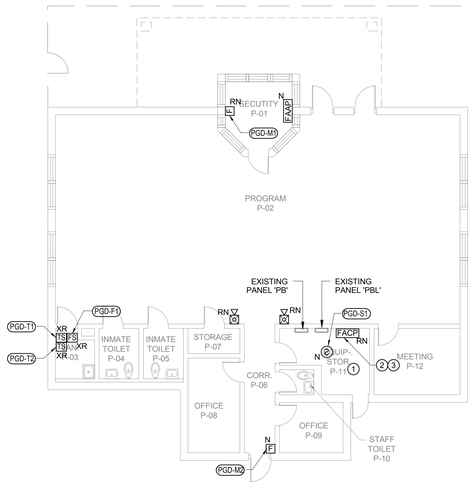


1 Medium Security Housing Program Building C - Fire Alarm System

1/8" = 1'-0"

0 4' 8' 16'



2 Medium Security Housing Program Building D - Fire Alarm System

1/8" = 1'-0"

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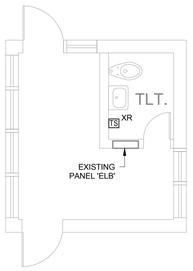

3 Pedestrian Sallyport - Fire Alarm System

1/4" = 1'-0"

0 4' 8' 16'

FIRE ALARM SYSTEM PERFORMANCE SCHEDULE - PROGRAM BUILDING Y

INITIATING DEVICES ID#	DESCRIPTION	LOCATION	ACTION UPON INITIATION	REMARKS
PGC-M1	MANUAL STATION	SECURITY ROOM	01 04	
PGC-M2	MANUAL STATION	WEST EXIT	01 04	
PGC-S1	SMOKE DETECTOR - CEILING MOUNTED	ELECTRICAL ROOM	01 04	NOTE 2.
PGC-T1	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM	02	NOTE 1.
PGC-T2	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM	02	NOTE 1.
PGC-T3	TAMPER SWITCH - SPRINKLER SYSTEM	POST INDICATOR VALVE	02	NOTE 1.
PGC-F1	WATERFLOW SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM	01 04	NOTE 1.

ACTIONS	
AC01	ALARM CONDITION AT CONTROL PANEL
AC02	SUPERVISORY CONDITION AT CONTROL PANEL
AC03	TROUBLE CONDITION AT CONTROL PANEL
AC04	ACTIVATE NOTIFICATION DEVICES
AC05	SHUTDOWN ASSOCIATED HVAC UNIT
AC06	ACTUATE SMOKE DAMPER
AC07	INITIATE CLOSING OF SMOKE BARRIER DOOR
AC08	ACTIVATE UNIT'S SMOKE REMOVAL SYSTEM
AC09	SEND SIGNAL TO BUILDING MANAGEMENT SYSTEM
AC10	

SCHEDULE NOTES:
1 PROVIDE NEW MONITOR MODULE FOR DEVICE INTERFACE.
2 FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.
3
4
5

FIRE ALARM SYSTEM PERFORMANCE SCHEDULE - PROGRAM BUILDING Z

INITIATING DEVICES ID#	DESCRIPTION	LOCATION	ACTION UPON INITIATION	REMARKS
PGD-M1	MANUAL STATION	SECURITY ROOM	01 04	
PGD-M1	MANUAL STATION	WEST EXIT	01 04	
PGD-S1	SMOKE DETECTOR - CEILING MOUNTED	ELECTRICAL ROOM	01 04	NOTE 2.
PGD-T1	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM	02	NOTE 1.
PGD-T2	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM	02	NOTE 1.
PGD-T3	TAMPER SWITCH - SPRINKLER SYSTEM	POST INDICATOR VALVE	02	NOTE 1.
PGD-F1	WATERFLOW SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM	01 04	NOTE 1.

ACTIONS	
AC01	ALARM CONDITION AT CONTROL PANEL
AC02	SUPERVISORY CONDITION AT CONTROL PANEL
AC03	TROUBLE CONDITION AT CONTROL PANEL
AC04	ACTIVATE NOTIFICATION DEVICES
AC05	SHUTDOWN ASSOCIATED HVAC UNIT
AC06	ACTUATE SMOKE DAMPER
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KEYED NOTES

1. LOCATION OF EXISTING MAINTENANCE NETWORK SWITCH AND PATCH PANEL. REPLACE EXISTING SWITCH WITH NEW UL 864 LISTED SWITCH UNIT. PROVIDE ETHERNET CONNECTION OF NEW FIRE ALARM CONTROL PANEL. COORDINATE ALL DIGITAL NETWORK WORK WITH OWNER'S INFORMATION TECHNOLOGY DIVISION..
2. PROVIDE 120V CONNECTION TO NEW FIRE ALARM CONTROL PANEL FROM THE EXISTING 120V CIRCUIT THAT PRESENTLY SERVES THE EXISTING FIRE ALARM CONTROL PANEL THAT IS BEING REMOVED. REPLACE EXISTING CIRCUIT CONDUCTORS WITH NEW AND EXTEND CIRCUIT TO NEW LOCATION AS REQUIRED. INSTALL RED HANDLE LOCK ON BRANCH CIRCUIT BREAKER & IDENTIFY BREAKER AS SERVING 'FIRE ALARM SYSTEM'.
3. NEW FIRE ALARM CONTROL PANEL SHALL COMMUNICATE DIGITALLY WITH THE NEW PROPRIETARY SUPERVISING ALARM WORKSTATION THAT IS BEING INSTALLED IN THE CENTRAL CONTROL ROOM LOCATED IN THE SECURITY/VISITATION BUILDING (SEE SHEET FA-1.13). COMMUNICATIONS SHALL BE ACCOMPLISHED BY ETHERNET CONNECTION TO THE FACILITY'S EXISTING MAINTENANCE LOCAL AREA NETWORK. COORDINATE EXISTING PATCH PANEL LOCATION, ETHERNET PORT ASSIGNMENT, IP ADDRESS ASSIGNMENT, ETC. WITH THE OWNER'S INFORMATION TECHNOLOGY DIVISION.

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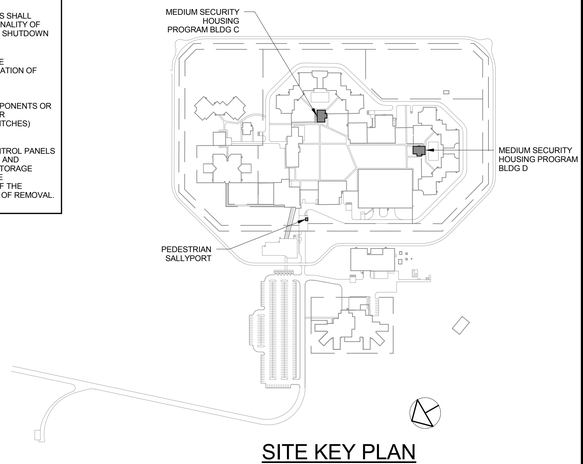

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TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

MEDIUM SECURITY HOUSING PROGRAM BUILDINGS AND SALLYPORT - FIRE ALARM SYSTEM

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DESIGNED BY:	RH	
CHECKED BY:	RH	
PHASE:	CD	DRAWING NO:
DATE:	11-08-2019	FA-1.10B

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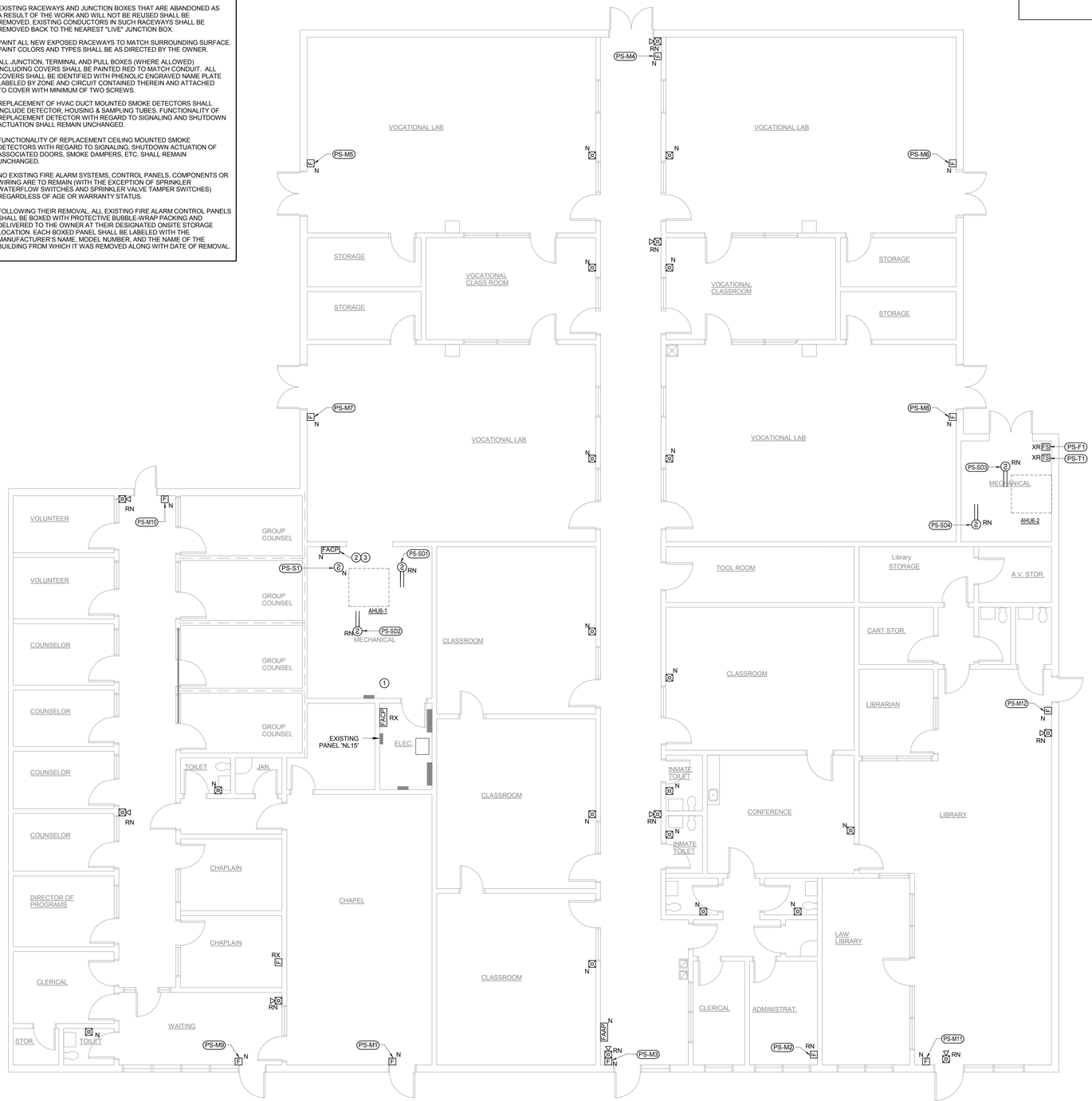
	FIRE ALARM CEILING MOUNT VISUAL DEVICE - STROBE ONLY
	FIRE ALARM AUDIO DEVICE
	FIRE ALARM AUDIO DEVICE WITH STROBE
	FIRE ALARM HORN
	FIRE ALARM HORN WITH STROBE
	FIRE ALARM CEILING MOUNT HORN WITH STROBE
F	FIRE ALARM MANUAL PULL STATION
S	FIRE ALARM SMOKE DETECTOR
H	FIRE ALARM HEAT DETECTOR SUBSCRIPT AS FOLLOWS: R=RATE OF RISE; T=FIXED TEMPERATURE
S X	FIRE ALARM DUCT SMOKE DETECTOR SUBSCRIPT AS FOLLOWS: S=SUPPLY; R=RETURN
CM	FIRE ALARM CONTROL MODULE
MM	FIRE ALARM MONITOR MODULE
RM	FIRE ALARM RELAY MODULE
FS	FLOW SWITCH
TS	TAMPER SWITCH
	MAGNETIC DOOR HOLDER
R	SMOKE DETECTOR REMOTE INDICATOR / TEST SWITCH
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
SCP	SMOKE CONTROL PANEL
SD	SMOKE DAMPER (EXISTING TO REMAIN)
ES	ELECTRIC SHUTOFF VALVE
	EXISTING MECHANICAL EQUIPMENT
	COMBINATION MOTOR STARTER/SAFETY SWITCH
J	JUNCTION BOX
	PANELBOARD
SCP	SECURITY SYSTEM CONTROL PANEL
N	NEW DEVICE AT NEW LOCATION
RN	REPLACE EXISTING DEVICE WITH NEW DEVICE
XR	EXISTING DEVICE TO REMAIN
RX	REMOVE EXISTING DEVICE



1 Academic/ Vocational Education Building - Fire Alarm System

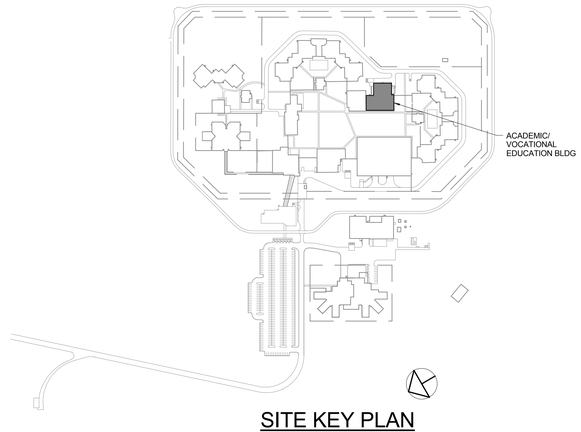
1/8" = 1'-0"

0 4' 8' 16'

FIRE ALARM SYSTEM PERFORMANCE SCHEDULE - PROGRAM SERVICES BUILDING E

INITIATING DEVICES ID#	DESCRIPTION	LOCATION	ACTION UPON INITIATION								REMARKS
PS-M1	MANUAL STATION	CHAPEL EXIT	01		04						
PS-M2	MANUAL STATION	ADMINISTRATION OFFICE	01		04						
PS-M3	MANUAL STATION	WEST EXIT	01		04						
PS-M4	MANUAL STATION	EAST EXIT	01		04						
PS-M5	MANUAL STATION	NORTHEAST VOCATIONAL LAB EXIT	01		04						
PS-M6	MANUAL STATION	SOUTHEAST VOCATIONAL LAB EXIT	01		04						
PS-M7	MANUAL STATION	NORTHWEST VOCATIONAL LAB EXIT	01		04						
PS-M8	MANUAL STATION	SOUTHWEST VOCATIONAL LAB EXIT	01		04						
PS-M9	MANUAL STATION	WAITING ROOM EXIT	01		04						
PS-M10	MANUAL STATION	NORTHEAST EXIT	01		04						
PS-M11	MANUAL STATION	LIBRARY - WEST EXIT	01		04						
PS-M12	MANUAL STATION	LIBRARY - SOUTH EXIT	01		04						
PS-SD1	SMOKE DETECTOR - DUCT MOUNTED	AHU6-1 SUPPLY AIR DUCT		02		05					NOTE 2.
PS-SD2	SMOKE DETECTOR - DUCT MOUNTED	AHU6-1 RETURN DUCT		02		05					NOTE 2.
PS-SD3	SMOKE DETECTOR - DUCT MOUNTED	AHU6-2 SUPPLY DUCT		02		05					NOTE 2.
PS-SD4	SMOKE DETECTOR - DUCT MOUNTED	AHU6-2 RETURN DUCT		02		05					NOTE 2.
PS-S1	SMOKE DETECTOR - CEILING MOUNTED	MECHANICAL ROOM	01		04						NOTE 2.
PS-T1	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02							NOTE 1.
PS-T2	TAMPER SWITCH - SPRINKLER SYSTEM	POST INDICATOR VALVE		02							NOTE 1.
PS-F1	WATERFLOW SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM	01		04						NOTE 1.
ACTIONS											
AC01	ALARM CONDITION AT CONTROL PANEL										
AC02	SUPERVISORY CONDITION AT CONTROL PANEL										
AC03	TROUBLE CONDITION AT CONTROL PANEL										
AC04	ACTIVATE NOTIFICATION DEVICES										
AC05	SHUTDOWN ASSOCIATED HVAC UNIT										
AC06	ACTUATE SMOKE DAMPER										
AC07	INITIATE CLOSING OF SMOKE BARRIER DOOR										
AC08	ACTIVATE UNIT'S SMOKE REMOVAL SYSTEM										
AC09	SEND SIGNAL TO BUILDING MANAGEMENT SYSTEM										
AC10											

SCHEDULE NOTES:
1. PROVIDE NEW MONITOR MODULE FOR DEVICE INTERFACE.
2. FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.
3.
4.
5.



SITE KEY PLAN

NOT TO SCALE

SSR Smith Seckman Reid, Inc.
2650 Thousand Oaks Boulevard,
Suite 3200
Memphis, TN 38118
(901) 683-3900
FAX: (901) 683-3990
www.ssr-inc.com
SSR Project #: 17671400

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

ACADEMIC/ VOCATIONAL EDUCATION BUILDING - FIRE ALARM SYSTEM

DRAWN BY:	TV	
DESIGNED BY:	RH	
CHECKED BY:	RH	
PHASE:	CD	DRAWING NO:
DATE:	11-08-2019	FA-1.11

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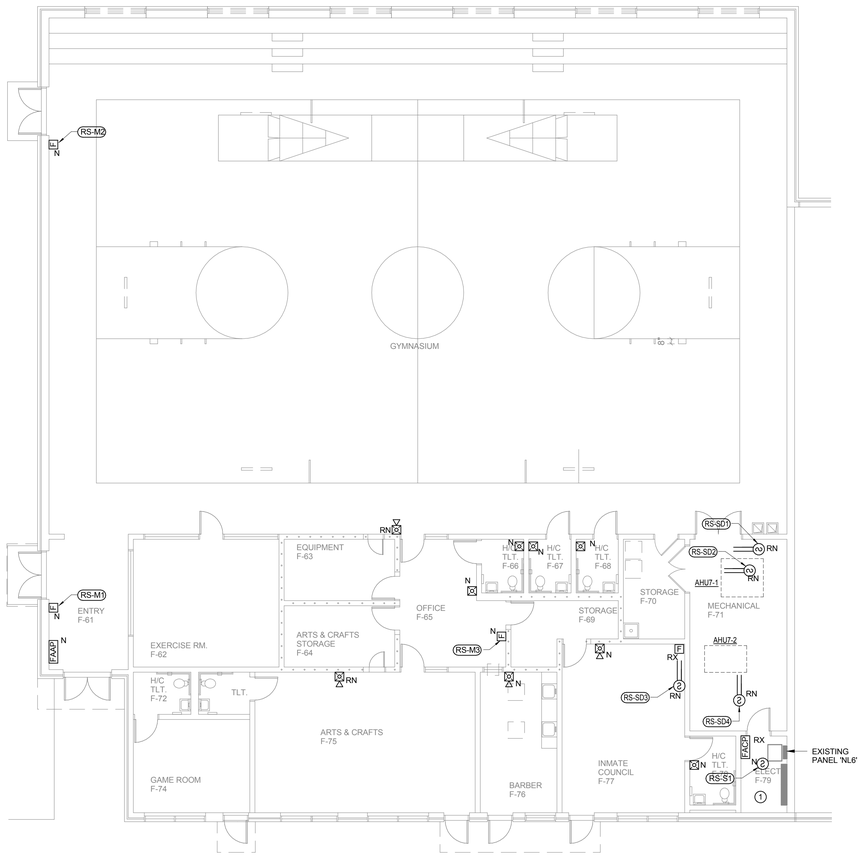


1 Recreational Services Building - Fire Alarm System

1/8" = 1'-0"

0 4" 8" 16"

GENERAL NOTES

A. EXECUTE WORK SO AS TO INTERFERE AS LITTLE AS POSSIBLE WITH NORMAL FACILITY FUNCTIONS. ALL WORK SHALL BE SCHEDULED, PHASED & PERFORMED IN A MANNER SUCH THAT FIRE ALARM MONITORING, INITIATION, NOTIFICATION AND ANNUNCIATION OR FIRE WATCH SERVICE IS MAINTAINED THROUGHOUT THE FACILITY. COORDINATE ANY PERIODS DURING WHICH THE FIRE ALARM SYSTEM OR ANY PORTION THEREOF WILL BE DEACTIVATED WITH THE OWNER AND THE LOCAL FIRE DEPARTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL FIRE WATCH SERVICE WHICH MAY BE REQUIRED.

B. EACH EXISTING BUILDING'S FIRE ALARM SYSTEM SHALL REMAIN IN OPERATION DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM UNTIL SUCH TIME THAT THE BUILDING CAN BE CUT OVER FROM THE EXISTING SYSTEM TO THE NEW SYSTEM. IN LIEU OF KEEPING A BUILDING'S EXISTING FIRE ALARM SYSTEM OPERATIONAL UNTIL ITS NEW SYSTEM IS OPERATIONAL, THE CONTRACTOR MAY, IF ACCEPTABLE TO THE OWNER, PROVIDE FIRE WATCH SERVICE IN THE BUILDING FOR THE DURATION OF THE SYSTEM REPLACEMENT IN THAT BUILDING.

C. REMOVE ALL EXISTING FIRE ALARM SYSTEM WIRING. ALL NEW FIRE ALARM SYSTEM WIRING SHALL BE RUN IN NEW CONDUIT RACEWAYS UNLESS INDICATED OTHERWISE. CONDUIT SHALL BE EMT TYPE WITH COMPRESSION TYPE FITTINGS. EXISTING ABANDONED FIRE ALARM SYSTEM RACEWAYS MAY REMAIN AND MAY BE REUSED IN PLACE FOR NEW FIRE ALARM SYSTEM WIRING. ALL CONDUIT SHALL BE ATTACHED USING TWO-HOLE CONDUIT STRAPS & TAMPER RESISTANT SCREWS.

D. EXISTING RACEWAYS AND JUNCTION BOXES THAT ARE ABANDONED AS A RESULT OF THE WORK AND WILL NOT BE REUSED SHALL BE REMOVED. EXISTING CONDUCTORS IN SUCH RACEWAYS SHALL BE REMOVED BACK TO THE NEAREST "LIVE" JUNCTION BOX.

E. PAINT ALL NEW EXPOSED RACEWAYS TO MATCH SURROUNDING SURFACE. PAINT COLORS AND TYPES SHALL BE AS DIRECTED BY THE OWNER.

F. ALL JUNCTION, TERMINAL AND PULL BOXES (WHERE ALLOWED) INCLUDING COVERS SHALL BE PAINTED RED TO MATCH CONDUIT. ALL COVERS SHALL BE IDENTIFIED WITH PHENOLIC ENGRAVED NAME PLATE LABELED BY ZONE AND CIRCUIT CONTAINED THEREIN AND ATTACHED TO COVER WITH MINIMUM OF TWO SCREWS.

G. REPLACEMENT OF HVAC DUCT MOUNTED SMOKE DETECTORS SHALL INCLUDE DETECTOR, HOUSING & SAMPLING TUBES. FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.

H. FUNCTIONALITY OF REPLACEMENT CEILING MOUNTED SMOKE DETECTORS WITH REGARD TO SIGNALING, SHUTDOWN ACTUATION OF ASSOCIATED DOORS, SMOKE DAMPERS, ETC. SHALL REMAIN UNCHANGED.

I. NO EXISTING FIRE ALARM SYSTEMS, CONTROL PANELS, COMPONENTS OR WIRING ARE TO REMAIN (WITH THE EXCEPTION OF SPRINKLER WATERFLOW SWITCHES AND SPRINKLER VALVE TAMPER SWITCHES) REGARDLESS OF AGE OR WARRANTY STATUS.

J. FOLLOWING THEIR REMOVAL, ALL EXISTING FIRE ALARM CONTROL PANELS SHALL BE BOXED WITH PROTECTIVE BUBBLE-WRAP PACKING AND DELIVERED TO THE OWNER AT THEIR DESIGNATED ONSITE STORAGE LOCATION. EACH BOXED PANEL SHALL BE LABELED WITH THE MANUFACTURER'S NAME, MODEL NUMBER, AND THE NAME OF THE BUILDING FROM WHICH IT WAS REMOVED ALONG WITH DATE OF REMOVAL.

KEYED NOTES

1. LOCATION OF EXISTING MAINTENANCE NETWORK SWITCH AND PATCH PANEL. REPLACE EXISTING SWITCH WITH NEW UL 864 LISTED SWITCH UNIT. PROVIDE ETHERNET CONNECTION OF NEW FIRE ALARM CONTROL PANEL. COORDINATE ALL DIGITAL NETWORK WORK WITH OWNER'S INFORMATION TECHNOLOGY DIVISION.

LEGEND

	FIRE ALARM VISUAL DEVICE - STROBE ONLY
	FIRE ALARM CEILING MOUNT VISUAL DEVICE - STROBE ONLY
	FIRE ALARM AUDIO DEVICE
	FIRE ALARM AUDIO DEVICE WITH STROBE
	FIRE ALARM HORN
	FIRE ALARM HORN WITH STROBE
	FIRE ALARM CEILING MOUNT HORN WITH STROBE
M	FIRE ALARM MANUAL PULL STATION
S	FIRE ALARM SMOKE DETECTOR
H	FIRE ALARM HEAT DETECTOR SUBSCRIPT AS FOLLOWS: R=RATE OF RISE; T=FIXED TEMPERATURE
SDX	FIRE ALARM DUCT SMOKE DETECTOR SUBSCRIPT AS FOLLOWS: S=SUPPLY; R=RETURN
CM	FIRE ALARM CONTROL MODULE
MM	FIRE ALARM MONITOR MODULE
RM	FIRE ALARM RELAY MODULE
FS	FLOW SWITCH
TS	TAMPER SWITCH
	MAGNETIC DOOR HOLDER
R	SMOKE DETECTOR REMOTE INDICATOR / TEST SWITCH
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
SCP	SMOKE CONTROL PANEL
SD	SMOKE DAMPER (EXISTING TO REMAIN)
ES	ELECTRIC SHUTOFF VALVE
	EXISTING MECHANICAL EQUIPMENT
	COMBINATION MOTOR STARTER/SAFETY SWITCH
J	JUNCTION BOX
	PANELBOARD
SCP	SECURITY SYSTEM CONTROL PANEL
N	NEW DEVICE AT NEW LOCATION
RN	REPLACE EXISTING DEVICE WITH NEW DEVICE
XR	EXISTING DEVICE TO REMAIN
RX	REMOVE EXISTING DEVICE

INITIATING DEVICE IDENTIFICATION KEY

BUILDING — COUNT — DEVICE TYPE

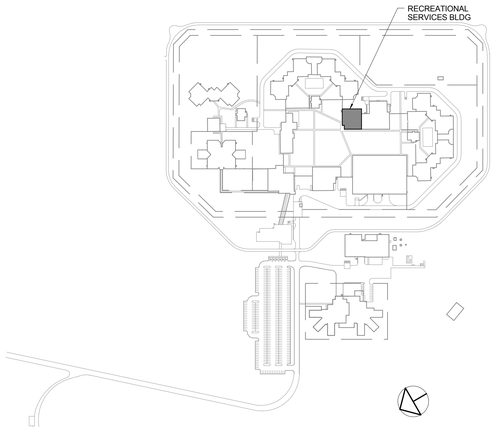
AD	= ADMINISTRATION	F	= SPRINKLER WATERFLOW SWITCH
FM	= FACILITY MAINTENANCE/ WAREHOUSE	M	= MANUAL STATION
FS	= FOOD SERVICE	MS	= POSITION MONITOR SWITCH
HA	= HOUSING 1/2/3/4	H	= HEAT DETECTOR
HB	= HOUSING 5/6	S	= SMOKE DETECTOR
HC	= HOUSING 7/8	SD	= SMOKE DETECTOR - DUCT MOUNTED
HD	= HOUSING 9/10	T	= SPRINKLER VAVLE TAMPER SWITCH
HE	= HOUSING 11/12	X	= SPECIAL SYSTEM MONITOR
HF	= HOUSING 13/14		
HNA	= HOUSING NORTH ANNEX		
HSA	= HOUSING SOUTH ANNEX		
IN	= INDUSTRIES		
MS	= HEALTH/ MEDICAL SERVICES		
PGA	= HIGH SECURITY HOUSING PROGRAM A		
PGB	= MEDIUM SECURITY HOUSING PROGRAM B		
PGC	= MEDIUM SECURITY HOUSING PROGRAM C		
PGD	= MEDIUM SECURITY HOUSING PROGRAM D		
PS	= ACADEMIC/VOCATIONAL EDUCATION		
RS	= RECREATIONAL SERVICES		
SV	= SECURITY/ VISITATION		

FIRE ALARM SYSTEM PERFORMANCE SCHEDULE - RECREATIONAL SERVICES BUILDING I

INITIATING DEVICES																
ID#	DESCRIPTION	LOCATION	ACTION UPON INITIATION													REMARKS
RS-M1	MANUAL STATION	GYM EXIT - WEST	01		04											
RS-M2	MANUAL STATION	GYM EXIT - EAST	01		04											
RS-M3	MANUAL STATION	OFFICE	01		04											
RS-SD1	SMOKE DETECTOR - DUCT MOUNTED	AHU7-1 SUPPLY AIR DUCT		02		05										NOTE 2.
RS-SD2	SMOKE DETECTOR - DUCT MOUNTED	AHU7-1 RETURN DUCT		02		05										NOTE 2.
RS-SD3	SMOKE DETECTOR - DUCT MOUNTED	AHU7-2 SUPPLY DUCT		02		05										NOTE 2.
RS-SD4	SMOKE DETECTOR - DUCT MOUNTED	AHU7-2 RETURN DUCT		02		05										NOTE 2.
RS-S1	SMOKE DETECTOR - CEILING MOUNTED	ELECTRICAL ROOM	01		04											NOTE 2.

ACTIONS	
AC01	ALARM CONDITION AT CONTROL PANEL
AC02	SUPERVISORY CONDITION AT CONTROL PANEL
AC03	TROUBLE CONDITION AT CONTROL PANEL
AC04	ACTIVATE NOTIFICATION DEVICES
AC05	SHUTDOWN ASSOCIATED HVAC UNIT
AC06	ACTUATE SMOKE DAMPER
AC07	INITIATE CLOSING OF SMOKE BARRIER DOOR
AC08	ACTIVATE UNIT'S SMOKE REMOVAL SYSTEM
AC09	SEND SIGNAL TO BUILDING MANAGEMENT SYSTEM
AC10	

SCHEDULE NOTES:
1 PROVIDE NEW MONITOR MODULE FOR DEVICE INTERFACE.
2 FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.
3
4
5



SITE KEY PLAN
NOT TO SCALE

SSR Smith Seckman Reid, Inc.
2650 Thousand Oaks Boulevard,
Suite 3200
Memphis, TN 38118
(901) 683-3900
FAX: (901) 683-3990
www.ssr-inc.com
SSR Project #: 17671400

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

RECREATIONAL SERVICES BUILDING - FIRE ALARM SYSTEM

DRAWN BY:	TV	
DESIGNED BY:	RH	
CHECKED BY:	RH	
PHASE:	CD	DRAWING NO:
DATE:	11-08-2019	FA-1.12

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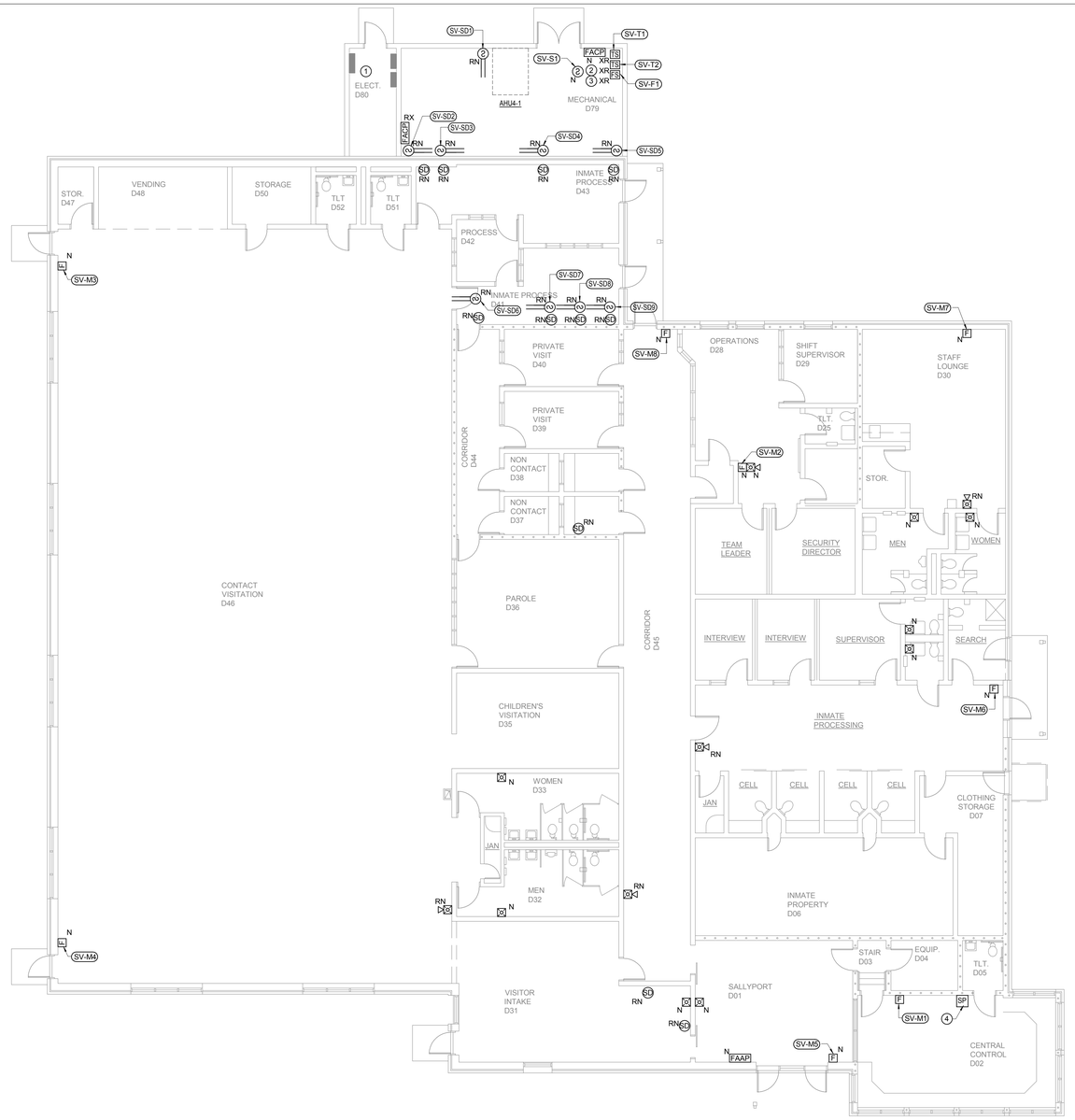


1 Central Control/Security Admin./Visitation Building - Fire Alarm System

1/8" = 1'-0"

0 4' 8' 16'

GENERAL NOTES

A. EXECUTE WORK SO AS TO INTERFERE AS LITTLE AS POSSIBLE WITH NORMAL FACILITY FUNCTIONS. ALL WORK SHALL BE SCHEDULED, PHASED & PERFORMED IN A MANNER SUCH THAT FIRE ALARM MONITORING, INITIATION, NOTIFICATION AND ANNUNCIATION OR FIRE WATCH SERVICE IS MAINTAINED THROUGHOUT THE FACILITY. COORDINATE ANY PERIODS DURING WHICH THE FIRE ALARM SYSTEM OR ANY PORTION THEREOF WILL BE DEACTIVATED WITH THE OWNER AND THE LOCAL FIRE DEPARTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL FIRE WATCH SERVICE WHICH MAY BE REQUIRED.

B. EACH EXISTING BUILDING'S FIRE ALARM SYSTEM SHALL REMAIN IN OPERATION DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM UNTIL SUCH TIME THAT THE BUILDING CAN BE CUT OVER FROM THE EXISTING SYSTEM TO THE NEW SYSTEM. IN LIEU OF KEEPING A BUILDING'S EXISTING FIRE ALARM SYSTEM OPERATIONAL UNTIL ITS NEW SYSTEM IS OPERATIONAL; THE CONTRACTOR MAY, IF ACCEPTABLE TO THE OWNER, PROVIDE FIRE WATCH SERVICE IN THE BUILDING FOR THE DURATION OF THE SYSTEM REPLACEMENT IN THAT BUILDING.

C. REMOVE ALL EXISTING FIRE ALARM SYSTEM WIRING. ALL NEW FIRE ALARM SYSTEM WIRING SHALL BE RUN IN NEW CONDUIT RACEWAYS UNLESS INDICATED OTHERWISE. CONDUIT SHALL BE EMT TYPE WITH COMPRESSION TYPE FITTINGS. EXISTING ABANDONED FIRE ALARM SYSTEM RACEWAYS MAY REMAIN AND MAY BE REUSED IN PLACE FOR NEW FIRE ALARM SYSTEM WIRING. ALL CONDUIT SHALL BE ATTACHED USING TWO-HOLE CONDUIT STRAPS & TAMPER RESISTANT SCREWS.

D. EXISTING RACEWAYS AND JUNCTION BOXES THAT ARE ABANDONED AS A RESULT OF THE WORK AND WILL NOT BE REUSED SHALL BE REMOVED. EXISTING CONDUCTORS IN SUCH RACEWAYS SHALL BE REMOVED BACK TO THE NEAREST "LIVE" JUNCTION BOX.

E. PAINT ALL NEW EXPOSED RACEWAYS TO MATCH SURROUNDING SURFACE. PAINT COLORS AND TYPES SHALL BE AS DIRECTED BY THE OWNER.

F. ALL JUNCTION, TERMINAL AND PULL BOXES (WHERE ALLOWED) INCLUDING COVERS SHALL BE PAINTED RED TO MATCH CONDUIT. ALL COVERS SHALL BE IDENTIFIED WITH PHENOLIC ENGRAVED NAME PLATE LABELED BY ZONE AND CIRCUIT CONTAINED THEREIN AND ATTACHED TO COVER WITH MINIMUM OF TWO SCREWS.

G. REPLACEMENT OF HVAC DUCT MOUNTED SMOKE DETECTORS SHALL INCLUDE DETECTOR, HOUSING & SAMPLING TUBES. FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.

H. FUNCTIONALITY OF REPLACEMENT CEILING MOUNTED SMOKE DETECTORS WITH REGARD TO SIGNALING, SHUTDOWN ACTUATION OF ASSOCIATED DOORS, SMOKE DAMPERS, ETC. SHALL REMAIN UNCHANGED.

I. NO EXISTING FIRE ALARM SYSTEMS, CONTROL PANELS, COMPONENTS OR WIRING ARE TO REMAIN (WITH THE EXCEPTION OF SPRINKLER WATERFLOW SWITCHES AND SPRINKLER VALVE TAMPER SWITCHES) REGARDLESS OF AGE OR WARRANTY STATUS.

J. FOLLOWING THEIR REMOVAL, ALL EXISTING FIRE ALARM CONTROL PANELS SHALL BE BOXED WITH PROTECTIVE BUBBLE-WRAP PACKING AND DELIVERED TO THE OWNER AT THEIR DESIGNATED ONSITE STORAGE LOCATION. EACH BOXED PANEL SHALL BE LABELED WITH THE MANUFACTURER'S NAME, MODEL NUMBER, AND THE NAME OF THE BUILDING FROM WHICH IT WAS REMOVED ALONG WITH DATE OF REMOVAL.

KEYED NOTES

1. LOCATION OF EXISTING MAINTENANCE NETWORK SWITCH AND PATCH PANEL. REPLACE EXISTING SWITCH WITH NEW UL 864 LISTED SWITCH UNIT. PROVIDE ETHERNET CONNECTION OF NEW FIRE ALARM CONTROL PANEL. COORDINATE ALL DIGITAL NETWORK WORK WITH OWNER'S INFORMATION TECHNOLOGY DIVISION.

2. PROVIDE 120V CONNECTION TO NEW FIRE ALARM CONTROL PANEL FROM THE EXISTING 120V CIRCUIT THAT PRESENTLY SERVES THE EXISTING FIRE ALARM CONTROL PANEL THAT IS BEING REMOVED. REPLACE EXISTING CIRCUIT CONDUCTORS WITH NEW AND EXTEND CIRCUIT TO NEW LOCATION AS REQUIRED. INSTALL RED HANDLE LOCK ON BRANCH CIRCUIT BREAKER & IDENTIFY BREAKER AS SERVING 'FIRE ALARM SYSTEM'.

3. NEW FIRE ALARM CONTROL PANEL SHALL COMMUNICATE DIGITALLY WITH THE NEW PROPRIETARY SUPERVISING ALARM WORKSTATION THAT IS BEING INSTALLED IN THE CENTRAL CONTROL ROOM LOCATED IN THE SECURITY/VISITATION BUILDING (SEE SHEET FA-1.13). COMMUNICATIONS SHALL BE ACCOMPLISHED BY ETHERNET CONNECTION TO THE FACILITY'S EXISTING 'MAINTENANCE' LOCAL AREA NETWORK. COORDINATE EXISTING PATCH PANEL LOCATION, ETHERNET PORT ASSIGNMENT, IP ADDRESS ASSIGNMENT, ETC. WITH THE OWNER'S INFORMATION TECHNOLOGY DIVISION.

4. LOCATE NEW PROPRIETARY SUPERVISING STATION ALARM WORKSTATION IN THIS SPACE. COORDINATE EXACT LOCATION WITH SECURITY PERSONNEL. PROVIDE NEW 120V CIRCUIT FROM EXISTING PANEL 'EV' WITHIN SPACE TO SERVE NEW WORKSTATION. PROVIDE A 1000VA, 600W, 120V UPS UNIT WITH INTEGRAL SURGE PROTECTION (APC BACK-UPS PRO 1000 OR LIEBERT EQUIVALENT) TO SUPPLY WORKSTATION PC & MONITOR.

LEGEND

	FIRE ALARM VISUAL DEVICE - STROBE ONLY
	FIRE ALARM CEILING MOUNT VISUAL DEVICE - STROBE ONLY
	FIRE ALARM AUDIO DEVICE
	FIRE ALARM AUDIO DEVICE WITH STROBE
	FIRE ALARM HORN
	FIRE ALARM HORN WITH STROBE
	FIRE ALARM CEILING MOUNT HORN WITH STROBE
F	FIRE ALARM MANUAL PULL STATION
S	FIRE ALARM SMOKE DETECTOR
H	FIRE ALARM HEAT DETECTOR SUBSCRIPT AS FOLLOWS: R=RATE OF RISE; T=FIXED TEMPERATURE
S X	FIRE ALARM DUCT SMOKE DETECTOR SUBSCRIPT AS FOLLOWS: S=SUPPLY; R=RETURN
CM	FIRE ALARM CONTROL MODULE
MP	FIRE ALARM MONITOR MODULE
RM	FIRE ALARM RELAY MODULE
FS	FLOW SWITCH
TS	TAMPER SWITCH
	MAGNETIC DOOR HOLDER
R	SMOKE DETECTOR REMOTE INDICATOR / TEST SWITCH
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
SCP	SMOKE CONTROL PANEL
SD	SMOKE DAMPER (EXISTING TO REMAIN)
ES	ELECTRIC SHUTOFF VALVE
	EXISTING MECHANICAL EQUIPMENT
	COMBINATION MOTOR STARTER/SAFETY SWITCH
J	JUNCTION BOX
	PANELBOARD
SCP	SECURITY SYSTEM CONTROL PANEL
N	NEW DEVICE AT NEW LOCATION
RN	REPLACE EXISTING DEVICE WITH NEW DEVICE
XR	EXISTING DEVICE TO REMAIN
RX	REMOVE EXISTING DEVICE

INITIATING DEVICE IDENTIFICATION KEY

BUILDING — COUNT — DEVICE TYPE

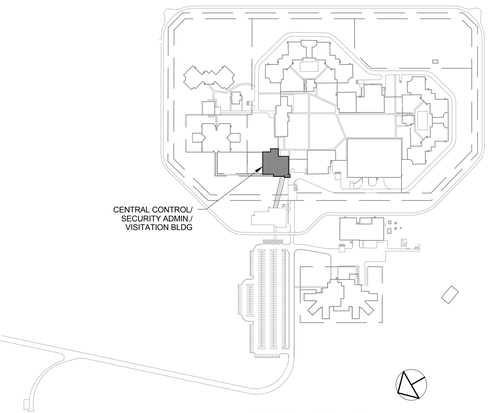
AD	= ADMINISTRATION	F	= SPRINKLER WATERFLOW SWITCH
FM	= FACILITY MAINTENANCE/ WAREHOUSE	M	= MANUAL STATION
FS	= FOOD SERVICE	MS	= POSITION MONITOR SWITCH
HA	= HOUSING 1/2/3/4	H	= HEAT DETECTOR
HB	= HOUSING 5/6	S	= SMOKE DETECTOR
HC	= HOUSING 7/8	SD	= SMOKE DETECTOR - DUCT MOUNTED
HD	= HOUSING 9/10	T	= SPRINKLER VAVLE TAMPER SWITCH
HE	= HOUSING 11/12	X	= SPECIAL SYSTEM MONITOR
HF	= HOUSING 13/14		
HNA	= HOUSING NORTH ANNEX		
HSA	= HOUSING SOUTH ANNEX		
IN	= INDUSTRIES		
MS	= HEALTH/ MEDICAL SERVICES		
PGA	= HIGH SECURITY HOUSING PROGRAM A		
PGB	= MEDIUM SECURITY HOUSING PROGRAM B		
PGC	= MEDIUM SECURITY HOUSING PROGRAM C		
PGD	= MEDIUM SECURITY HOUSING PROGRAM D		
PS	= ACADEMIC/VOCATIONAL EDUCATION		
RS	= RECREATIONAL SERVICES		
SV	= SECURITY/ VISITATION		

FIRE ALARM SYSTEM PERFORMANCE SCHEDULE - SECURITY/VISITATION BUILDING B

INITIATING DEVICES ID#	DESCRIPTION	LOCATION	ACTION UPON INITIATION								REMARKS
SV-M1	MANUAL STATION	CENTRAL CONTROL	01		04						
SV-M2	MANUAL STATION	OPERATIONS OFFICE	01		04						
SV-M3	MANUAL STATION	CONTACT VISITATION AREA - NORTHEAST EXIT	01		04						
SV-M4	MANUAL STATION	CONTACT VISITATION AREA - NORTHWEST EXIT	01		04						
SV-M5	MANUAL STATION	SALLY PORT	01		04						
SV-M6	MANUAL STATION	INMATE PROCESSING EXIT	01		04						
SV-M7	MANUAL STATION	STAFF LOUNGE EXIT	01		04						
SV-M8	MANUAL STATION	EAST BUILDING EXIT	01		04						
SV-SD1	SMOKE DETECTOR - DUCT MOUNTED	AHU4-1 SUPPLY AIR DUCT		02			05	06			NOTE 2.
SV-SD2	SMOKE DETECTOR - DUCT MOUNTED	HVAC DUCT SMOKE DAMPER		02			05	06			NOTE 2.
SV-SD3	SMOKE DETECTOR - DUCT MOUNTED	HVAC DUCT SMOKE DAMPER		02			05	06			NOTE 2.
SV-SD4	SMOKE DETECTOR - DUCT MOUNTED	HVAC DUCT SMOKE DAMPER		02			05	06			NOTE 2.
SV-SD5	SMOKE DETECTOR - DUCT MOUNTED	HVAC DUCT SMOKE DAMPER		02			05	06			NOTE 2.
SV-SD6	SMOKE DETECTOR - DUCT MOUNTED	HVAC DUCT SMOKE DAMPER		02			05	06			NOTE 2.
SV-SD7	SMOKE DETECTOR - DUCT MOUNTED	HVAC DUCT SMOKE DAMPER		02			05	06			NOTE 2.
SV-SD8	SMOKE DETECTOR - DUCT MOUNTED	HVAC DUCT SMOKE DAMPER		02			05	06			NOTE 2.
SV-SD9	SMOKE DETECTOR - DUCT MOUNTED	HVAC DUCT SMOKE DAMPER		02			05	06			NOTE 2.
SV-S1	SMOKE DETECTOR - CEILING MOUNTED	ELECTRICAL ROOM	01		04						NOTE 2.
SV-T1	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02							NOTE 1.
SV-T2	TAMPER SWITCH - SPRINKLER SYSTEM	MECHANICAL ROOM		02							NOTE 1.
SV-T3	TAMPER SWITCH - SPRINKLER SYSTEM	POST INDICATOR VALVE		02							NOTE 1.
SV-F1	WATERFLOW SWITCH	MECHANICAL ROOM	01		04						NOTE 1.

ACTIONS	
AC01	ALARM CONDITION AT CONTROL PANEL
AC02	SUPERVISORY CONDITION AT CONTROL PANEL
AC03	TROUBLE CONDITION AT CONTROL PANEL
AC04	ACTIVATE NOTIFICATION DEVICES
AC05	SHUTDOWN ASSOCIATED HVAC UNIT
AC06	ACTUATE SMOKE DAMPER
AC07	INITIATE CLOSING OF SMOKE BARRIER DOOR
AC08	ACTIVATE UNIT'S SMOKE REMOVAL SYSTEM
AC09	SEND SIGNAL TO BUILDING MANAGEMENT SYSTEM
AC10	

SCHEDULE NOTES:
1 PROVIDE NEW MONITOR MODULE FOR DEVICE INTERFACE.
2 FUNCTIONALITY OF REPLACEMENT DETECTOR WITH REGARD TO SIGNALING AND SHUTDOWN ACTUATION SHALL REMAIN UNCHANGED.
3
4
5



SITE KEY PLAN

NOT TO SCALE

SSR Smith Seckman Reid, Inc.
2650 Thousand Oaks Boulevard,
Suite 3200
Memphis, TN 38118
(901) 683-3900
FAX: (901) 683-3990
www.ssr-inc.com
SSR Project #: 17671400

No.	Date	Description

TDOC
SBC: 142/018-01-2017

LIFE SAFETY UPGRADES

SOUTH CENTRAL CORRECTIONAL FACILITY
CLIFTON, WAYNE COUNTY, TENNESSEE

CENTRAL CONTROL/ SECURITY ADMIN./ VISITATION BUILDING - FIRE ALARM SYSTEM

DRAWN BY:	TV	
DESIGNED BY:	RH	
CHECKED BY:	RH	
PHASE:	CD	DRAWING NO: FA-1.13
DATE:	11-08-2019	

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