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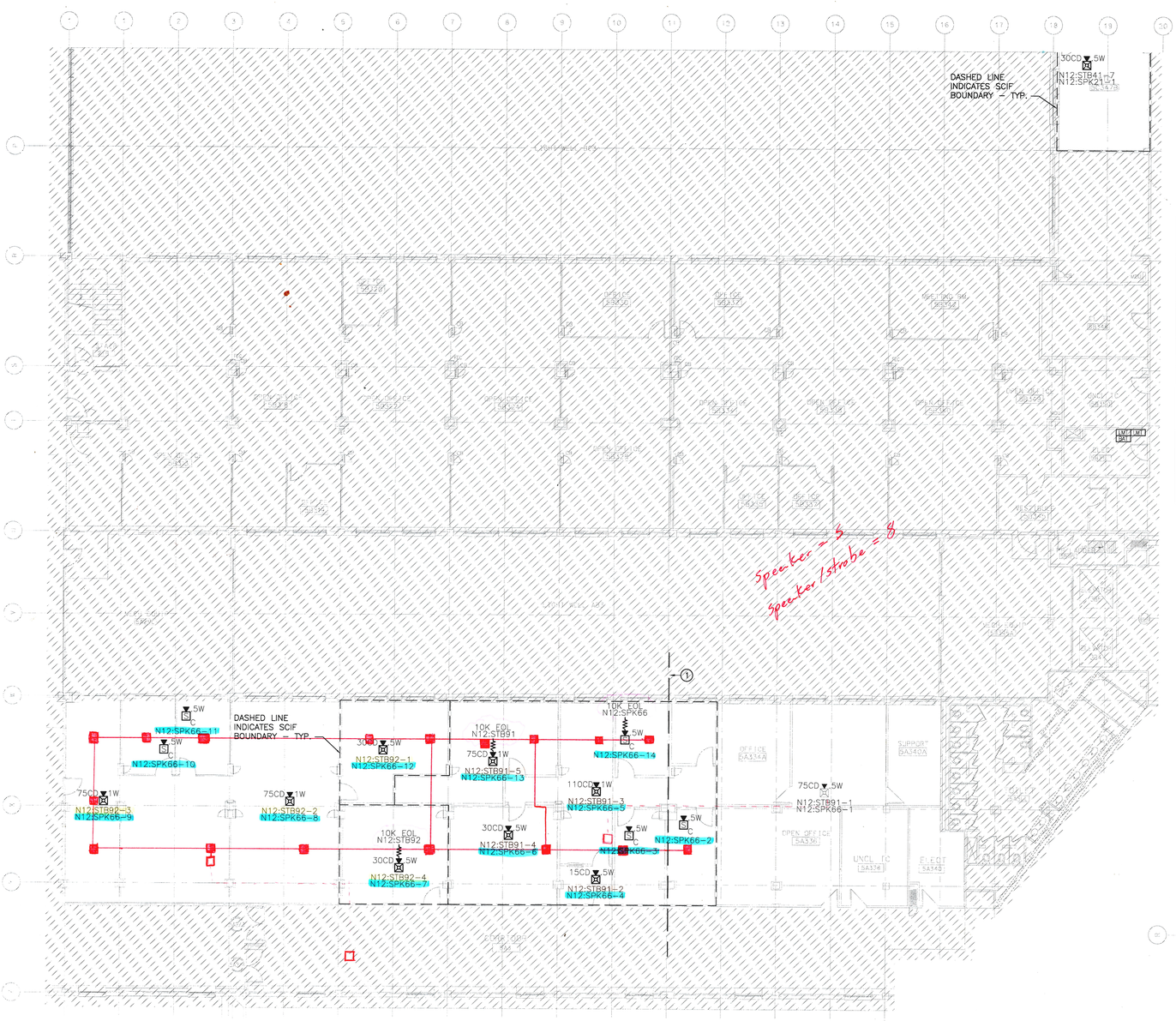
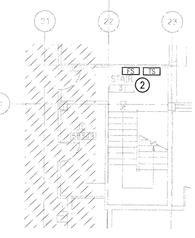


1 ZF-531 FIFTH FLOOR – FIRE ALARM PLAN – AREA AB531
1/8" = 1'-0"



1 ZF-531 PARTIAL FIFTH FLOOR – FIRE ALARM PLAN – STAIR 31
1/8" = 1'-0"

DESIGN NOTES

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO USP STANDARDS. STROBES SHALL BE INSTALLED IN ALL OFFICES AND ROOMS WHICH ARE INTENDED TO HOUSE MORE THAN ONE PERSON (PRIVATE OFFICES DO NOT REQUIRE A STROBE, BUT WILL REQUIRE A 0.25W SPEAKER). AUDIBLE NOTIFICATION DEVICES SHALL BE LOCATED TO PROVIDE SOUND PRESSURE LEVELS OF AT LEAST 15 DBA ABOVE AMBIENT SOUND LEVELS (WITH AMBIENT SOUND LEVELS FOR OFFICES BEING 45 DBA).
2. FIRE ALARM DEVICES AND APPLIANCES SHALL BE LOCATED IN COMPLIANCE WITH NFPA 72 TO MEET ALL SPATIAL REQUIREMENTS.
3. CONNECT THE NEW FIRE ALARM DEVICES TO THE EXISTING FIRE ALARM CONTROL PANELS.
4. AFTER REMOVAL OF EACH FIRE ALARM DEVICE RELATED CIRCUIT SHOULD BE REMOVED BACK TO SOURCE..
5. PER WHSBC, WHERE AUDIBLE CIRCUITS PASS A SCIF BOUNDARY, THE CONTRACTOR MUST PROVIDE A MEANS TO PREVENT LISTENING ACROSS THE SCIF BOUNDARY.

KEYED NOTES

1. EXPANSION JOINT.
2. DISCONNECT AND RECONNECT TAMPER AND FLOW SWITCHES.

SYMBOL LEGEND

- LMT — LOCAL MODE TRANSPONDER
- LMC — LOCAL MODE CONTROLLER
- BAT — BATTERY CABINET
- CD .5W — COMBINATION CEILING SPEAKER/VISIBLE W = WATTAGE CD = CANDELA RATING/SETTING
- .5W C — SPEAKER ONLY – CEILING MOUNTED W = WATTAGE
- CD — VISIBLE ONLY (STROBE) – CEILING MOUNTED CD = CANDELA RATING/SETTING
- FS — FLOW SWITCH
- TS — TAMPER SWITCH
- — — SCIF BOUNDARY

IFC SUBMISSION

GENERAL NOTES

1. COMPLY WITH THE REQUIREMENTS OF THE ARCHITECTURAL BARRIERS ACT (ABA). NEW FIRE ALARM SYSTEM FLASHING LIGHTS/STROBE LIGHTS SHALL BE ABA COMPLIANT IN TYPE, COLOR, FLASH RATE, LIGHT INTENSITY AND MOUNTING/INSTALLATION. NEW FLASHING/STROBE LIGHTS SHALL BE INSTALLED IN AREAS SHOWN ON THE DRAWING(S). FLASH RATE OF ALL STROBES WITHIN BUILDING/SPACE SHALL BE SYNCHRONIZED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL ALTERATION MATERIALS AND WORK ON THE EXISTING BUILDING FIRE ALARM SYSTEM TO ACCOMMODATE NEW ABA FLASHING/STROBE LIGHTS. THE ARCHITECT AND BUILDING OWNER SHALL BE NOTIFIED PRIOR TO BID IF NEW SYSTEM INTERFACE/CONTROL PANEL(S) AND EXTENSIVE WIRING ARE REQUIRED TO ACCOMMODATE THE FLASHING/STROBE LIGHT INSTALLATION. THE CONTRACTOR'S BID PRICE TO PERFORM THIS WORK SHALL BE PROVIDED AS A SEPARATE LINE ITEM WITH PROJECT BID.
3. CONTRACTOR SHALL MODIFY EXISTING FIRE ALARM SYSTEM:
   a. PROVIDE AND INSTALL FIRE ALARM DEVICES THAT ARE COMPATIBLE WITH THE EXISTING EQUIPMENT AND IN ACCORDANCE WITH NFPA 72 REQUIREMENTS.
   b. CONDUCTORS MUST COMPLY WITH WHSBC, UFC AND USP. PULL ALL CONDUCTORS SPLICE FREE; CONDUCTORS MUST BE CONTINUOUS FROM DEVICE TO DEVICE. THE USE OF WIRE NUTS, CRIMPED CONNECTORS, OR TWISTING OF CONDUCTORS IS PROHIBITED.
   c. INSTALL ALL CONDUCTORS IN RIGID METAL CONDUIT OR ELECTRICAL – METALLIC TUBING, WITH A MINIMUM DIAMETER OF 19 mm (1"). RUN CONDUIT OR TUBING CONCEALED UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE DRAWINGS. ALL WIRING FOR THE FIRE ALARM SYSTEM MUST BE INSTALLED IN SEPARATE CONDUIT. NO OTHER BUILDING WIRING PERMITTED IN CONDUIT THAT CONTAINS FIRE ALARM WIRING. ALL FIRE ALARM CABLE, CONDUIT, JUNCTION BOXES AND COVERS IN UNFINISHED AREAS (ABOVE CEILINGS, MECHANICAL ROOMS, ETC.) MUST BE FACTORY PAINTED RED.
   d. T-TAPPING OF NOTIFICATION APPLIANCE CIRCUITS (NAC'S) IS NOT PERMITTED.
   e. MANUAL PULL STATIONS SHALL BE PLACED SO THAT THE OPERABLE PART IS LOCATED 4'-0" A.F.F.
   f. VERIFY EXISTING FIRE ALARM NOTIFY APPLIANCES CIRCUIT (NAC) POWER BOOSTER SUPPLY HAS SUFFICIENT CAPACITY TO SUPPORT THE NEW FIRE ALARM DEVICES. PROVIDE EXTENDER PANEL IF NEEDED.
   g. SUBMIT AS-BUILT DRAWINGS TO THE CONTRACTING OFFICER UPON COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL INDICATED CHANGES FROM THE ORIGINAL LAYOUT, MARKED IN RED.
   h. PER UFC 3-600-01 9-18.9.4.2. & WSBC 209.45 NEW NAC CIRCUITS SHALL CONSIST OF 12 GAUGE SOLID COPPER FOR STROBES AND 16 GAUGE SOLID COPPER FOR TSP SPEAKER CONDUCTORS.

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REV	DATE	DESCRIPTION	BY
	8/16/18	IFC SUBMISSION	DMC
–	6/22/18	100% DESIGN SUBMISSION	DMC
–	4/13/18	95% DESIGN SUBMISSION	DMC
–	1/25/18	65% DESIGN SUBMISSION	DMC

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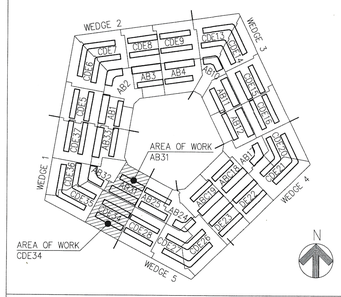
GRAPHIC SCALE

SCALE: 1/8" = 1'-0" 0 4' 8' 16'

KEY PLAN



PENTAGON RENOVATION OFFICE
THE PENTAGON
ARLINGTON, VA

IFC SUBMISSION
WEDGE 1 – AIR FORCE 5A&5C RENO

FIFTH FLOOR
- FIRE ALARM PLAN - AREA AB531

HSU

COMMONWEALTH OF VIRGINIA MEHRAN MOHAMMADI Expires 6/30/2019 PROFESSIONAL ENGINEER 0701202018

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Springfield, Virginia 22151
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CONTRACT NUMBER: HQ0034-14-D-0004-HQ0034170399
PLATE: 062
PROJECT ID: R172
SCALE:
DATE: 08/16/18
SHEET: ZF-531

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