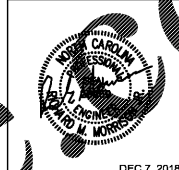


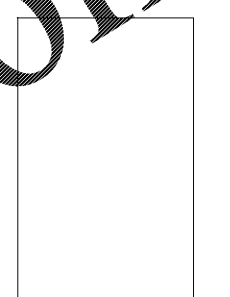


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DEC 7, 2018
PROJECT NUMBER = C-2130

WILSON AIR CENTER
NORTH TERMINAL



ARCHITECT
THE WILSON GROUP
P O BOX 6010
CHARLOTTE, NC 28209
(704) 331-9747

CIVIL ENGINEER
TALBERT, BRIGHT & ELLINGTON
3525 WHITEHALL PARK DRIVE, SUITE 210
CHARLOTTE, NC 28273
(704) 426-6070 FIRM NO. C-1163

STRUCTURAL ENGINEER
STEWART
101 N. TRYON ST., SUITE 1400
CHARLOTTE, NC 28202
(704) 909-3523 FIRM NO. C-1051

MECHANICAL, ELECTRICAL, PLUMBING & FIRE PROTECTION ENGINEER
SABER ENGINEERING
2923 S. TRYON ST., SUITE 280
CHARLOTTE, NC 28203
(704) 373-0068 FIRM NO. C-2130

LANDSCAPE ARCHITECT
URBAN DESIGN PARTNERS
1318-EB CENTRAL AVENUE
CHARLOTTE, NC 28208
(704) 334-3303 FIRM NO. C-190

COMMUNICATIONS INFRASTRUCTURE
DB CONSULTING
248 LOVES FARM ROAD
BLACKSBURG, SC 29702
(704) 497-7228 FIRM NO. C-190

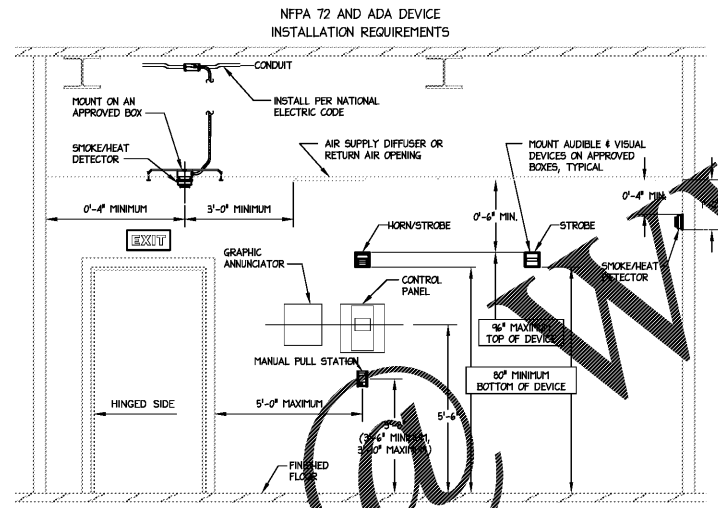
REVISIONS
DATE DECEMBER 7, 2018
PROJECT NUMBER 9197-000

SHEET TITLE
FIRE ALARM DETAILS

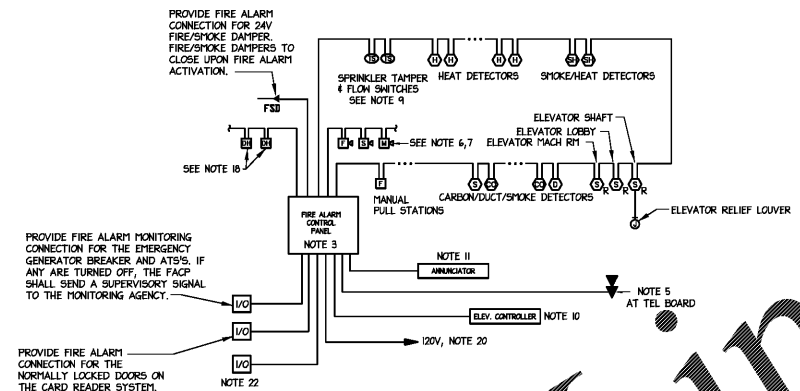
SHEET NUMBER
LV-102

FIRE ALARM SYSTEM SCHEDULE

FIRE ALARM SYSTEM MATRIX	BUILDING SYSTEM OUTPUTS										CENTRAL CONT.	
	ACTIVATE OPTION ALARM SIGNAL INDICATOR	ACTIVATE AUDIBLE ALARM SIGNAL	ACTIVATE OPTION SUPERVISORY SIGNAL INDICATOR	ACTIVATE AUDIBLE SUPERVISORY SIGNAL	ACTIVATE OPTION TROUBLE SIGNAL INDICATOR	ACTIVATE AUDIBLE TROUBLE SIGNAL	ACTIVATE GENERAL EVACUATION SIGNAL	DISPLAY CHANGE OF STATUS	ACTIVATE EXTERNAL SPEAKER/STROBE	TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION	TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION	
BUILDING SYSTEM INPUTS												
MANUAL FIRE ALARM PULL BOXES	X	X	X	X	X	X	X	X	X	X	X	X
BUILDING SMOKE/HEAT DETECTOR	X	X	X	X	X	X	X	X	X	X	X	X
DUCT SMOKE DETECTOR	X	X	X	X	X	X	X	X	X	X	X	X
FIRE ALARM A.C. POWER FAILURE			X	X	X	X	X	X	X	X	X	X
FIRE ALARM SYSTEM LOW BATTERY			X	X	X	X	X	X	X	X	X	X
OPEN CIRCUIT			X	X	X	X	X	X	X	X	X	X
GROUND FAULT			X	X	X	X	X	X	X	X	X	X
NOTIFICATION APPLIANCE CIRCUIT SHORT			X	X	X	X	X	X	X	X	X	X
SPRINKLER WATER FLOW	X	X	X	X	X	X	X	X	X	X	X	X
SPRINKLER TAMPER	X	X	X	X	X	X	X	X	X	X	X	X
ELEVATOR EQ. ROOMS & 1ST FL. ELEV. LOBBY SMOKE DETECTORS	X	X	X	X	X	X	X	X	X	X	X	X
ELEVATOR SHAFT & UPPER FLOORS ELEV. LOBBY SMOKE DETECTORS	X	X	X	X	X	X	X	X	X	X	X	X
ELEVATOR SHAFT & ELEVATOR EQUIPMENT ROOM HEAT DETECTORS	X	X	X	X	X	X	X	X	X	X	X	X
BUILDING CARBON MONOXIDE DETECTOR	X	X	X	X	X	X	X	X	X	X	X	X



2 ADA DEVICE INSTALLATION
DIAGRAMMATIC ONLY



- NOTES FIRE ALARM RISER**
- FIRE ALARM DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH NFPA 72 AND ADA.
 - ACTUATION OF ANY PULL STATION, SPRINKLER FLOW SWITCH, OR HEAT/SMOKE/DUCT DETECTOR SHALL ACTIVATE ALL ALARM SIGNALS.
 - FIRE ALARM DEVICES SHALL BE ACCESSIBLE, 24VDC POWER LIMITED, FULLY SUPERSEDED, VISIBLE, UNDELETED CENTRAL MONITORING STATION WITH 24 HOUR STANDBY BATTERY. PULL STATION TO BE PROVIDED IN 1ST FLOOR PAINT. ROOM.
 - TESTING OF THE FIRE ALARM SYSTEM SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
 - PROVIDE DUAL LINE AUTO-CALLER TO A M.C. APPROVED CENTRAL MONITORING STATION.
 - PROVIDE SMOKE/STROBE CIRCUITS AS REQUIRED, NO CIRCUIT SHALL BE LOADED MORE THAN 100% PRIOR TO FINAL INSPECTION TO ALLOW ADDITIONAL UNITS TO BE ADDED AS NECESSARY. STROBES SHALL BE SYNCHRONIZED.
 - VERIFY QUANTITIES PER PLANS AND REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION OVER THE PROJECT THAT BID INCLUDES ALL WORK REQUIRED TO OBTAIN CERTIFICATE OF OCCUPANCY.
 - PROVIDE INTERFACE AND CONNECTIONS FOR HVAC UNIT SHUT/DOWN WHERE REQUIRED. FIELD COORDINATE CONNECTIONS AND REQUIRED AIR HANDLERS WITH MECHANICAL CONTRACTOR.
 - COORDINATE INTERLOCKS BETWEEN FIRE ALARM ACTIVATION AND ELEVATOR RECALL AS REQUIRED. TWO OUTPUT SIGNALS FROM THE FACP ARE REQUIRED. ONE SIGNAL SHALL BE TRANSMITTED UPON ACTIVATION OF THE MAIN LEVEL ELEV. LOBBY SMOKE DETECTOR TO RECALL ELEV. TO DESIGNATED ALTERNATE LEVEL. THE OTHER SIGNAL SHALL BE TRANSMITTED UPON ACTIVATION OF ANY OTHER ELEV. LOBBY, MACHINE ROOM OR SHAFT SMOKE DETECTOR TO RECALL TO THE PRIMARY LANDING (ASSUMED TO BE THE MAIN LEVEL, FIELD VERIFY). FIELD VERIFY FIRE ALARM CONNECTIONS ARE PROVIDED FOR EACH ELEVATOR. PROVIDE NEW AS REQUIRED.
 - FIRE ALARM ANNUNCIATOR LOCATIONS SHALL BE APPROVED BY LOCAL FIRE MARSHALL.
 - FIRE ALARM DEVICES 4 WIRE ASSE TO BE INSTALLED IN ACCORDANCE WITH NFPA 72 AND 'ADA'.
 - ALL FIRE ALARM WIRING AND DEVICES SHALL BE IN 3/4" CONDUIT PAINTED RED.
 - MANUAL PULL STATIONS SHALL BE INSTALLED WITH TAMPER PROOF COVERS.
 - DUCT MOUNTED SMOKE DETECTORS SHALL BE SUPPLIED AND HIRED BY E.C., INSTALLED BY M.C.
 - ELECTRICAL CONTRACTOR TO PROVIDE AUTHORITY HAVING JURISDICTION WITH FIRE ALARM SYSTEM INSTALLATION PLANS FOR FINAL APPROVAL, PRIOR TO INSTALLATION.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE A FIRE ALARM LAYOUT PLAN AT THE FACP AND ALL ANNUNCIATOR PANELS.
 - PROVIDE CONNECTION TO ALL FIREMALL DOOR HOLD OPENS AS REQUIRED. DOORS TO CLOSE UPON FIRE ALARM ACTIVATION.
 - ALL VISUAL DEVICES IN A COMMON VIEWING AREA SHALL BE SYNCHRONIZED.
 - PROVIDE 200V CONNECTIONS TO FIRE ALARM EXTENDER PANELS AS REQUIRED BY FIRE ALARM SYSTEM INSTALLER.
 - NOT USED.
 - FIRE ALARM PANEL TO MONITOR STATUS OF EMERGENCY TRANSFER SWITCH AND COMMUNICATE TO ELEVATOR CONTROLLER WHEN SYSTEM IS ON EMERGENCY POWER.
 - EVACUATION TONE SHALL BE THREE BEAT TEMPORAL PATTERN.

DEVICE TYPE AND LOCATION	ACTION
PULL STATIONS	1,4
SMOKE DETECTORS	1,4
ELEV. MACH ROOM/SHAFT & UPPER LVL. ELEV. LOBBY SMOKE DETS.	1,4
MAIN ENTRY LEVEL ELEVATOR LOBBY SMOKE DETECTORS	1,3
DUCT SMOKE DETECTORS	2,4,7
ANY DEVICE TROUBLE	6
FLOW SWITCH	1
TAMPER SWITCHES	7
CO DETECTORS	7

- ACTION NOTES**
- ALARM INPUT SHALL ACTIVATE AUDIBLE/VISUAL SIGNALS IN THE BUILDING, AND CAUSE APPROPRIATE RESPONSE OF CONTROLLED FUNCTIONS, RELEASE OF APPROPRIATE MAGNETIC DOOR HOLD OPEN DEVICES, ETC., AND REPORT TO CENTRAL MONITORING STATION. MONITORING STATION REQUIREMENTS SHALL BE COORDINATED WITH OWNER AS REQUIRED.
 - ALARM INPUT SHALL CAUSE RESPECTIVE AIR HANDLERS TO SHUT DOWN.
 - ELEVATOR SHALL BE RETURNED TO 2ND FLOOR.
 - ELEVATOR SHALL BE RETURNED TO 1ST FLOOR.
 - ELEVATOR BREAKER SHUNT TRIP DEVICE SHALL BE ACTIVATED UPON CONFIRMATION FROM ELEVATOR CONTROLLER THAT ELEVATOR IS STOPPED AT EXIT FLOOR AND DOORS HAVE OPENED.
 - TROUBLE SHALL BE REPORTED TO CENTRAL MONITORING STATION AND AN AUDIBLE TONE SHALL SOUND AT THE FIRE ALARM CONTROL PANEL AND THE ANNUNCIATOR.
 - SUPERVISORY SHALL BE REPORTED TO CENTRAL MONITORING STATION AND AN AUDIBLE TONE SHALL SOUND AT THE FIRE ALARM CONTROL PANEL AND THE ANNUNCIATOR.

Order Plans