




1 LEVEL 0 FIRE SPRINKLER PLAN  
1/8" = 1'-0"

NFPA 13 HAZARD CLASSIFICATION

	LIGHT HAZARD (0.1 GPM/FT <sup>2</sup> OVER 1,500 SQFT)
	ORDINARY HAZARD, GROUP 1 (0.15 GPM/FT <sup>2</sup> OVER 1,500 SQFT)
	ORDINARY HAZARD, GROUP 2 (0.2 GPM/FT <sup>2</sup> OVER 1,500 SQFT)

## KEY NOTES FP101

- 1 RISER CONTROL VALVE
- 2 COMBINATION SPRINKLER/STANDPIPE RISER TO 2ND FLOOR  
AND FLOOR CONTROL VALVE FOR FIRST FLOOR
- 3 INSPECTORS TEST VALVE AND DRAIN ASSEMBLY LOCATION
- 4 SPRINKLER FEED MAIN
- 5 STANDPIPE RISER
- 6 ROUTE SPRINKLER PIPING AT THIS LOCATION TO SUPPLY  
SPRINKLERS IN LINAC SPACES. COORDINATE WITH OTHER  
TRADES.
- 7 PROVIDE SEPARATE SUPPLIES TO SMOKE COMPARTMENTS  
AS SHOWN

ALTERNATE NOTES  
( SEE SHEET AI108)

1. OMISSION OF ELEVATOR P-301. OMIT SPRINKLERS IN SHAFT
2. OMIT SUNDOLBY DAYLIGHT HARVESTER. NO IMPACT ON SPRINKLERS.
3. REPLACE 60 MIL. KEE ROOFING MEMBRANE WITH 35 MIL. KEE ROOFING MEMBRANE. NO IMPACT ON SPRINKLERS.
4. OMIT ROOF DRAINAGE SYSTEM. NO IMPACT ON SPRINKLERS.
5. OMIT SITE WALLS, ALUMINUM GLAZES, TRANSLUCENT PANELS; AND LANDSCAPING NEAR LOUSHOUNG SHEDS. NO IMPACT ON SPRINKLERS.
6. OMIT VEHICULAR ENTRANCE CANOPY. NO IMPACT ON SPRINKLERS.
7. OMIT AREA INDICATED. AREA TO BE UNFINISHED SPACE. PROVIDE SPRINKLERS DESIGNED TO PROTECT IN ACCORDANCE WITH ORDINARY HAZARD. GROUP II CLASSIFICATION IN UNFINISHED SPACE.
8. OMIT AREA INDICATED. AREA TO BE UNFINISHED SPACE. PROVIDE SPRINKLERS DESIGNED TO PROTECT IN ACCORDANCE WITH ORDINARY HAZARD. GROUP II CLASSIFICATION IN UNFINISHED SPACE.
9. OMIT AREA INDICATED. AREA TO BE UNFINISHED SPACE. PROVIDE SPRINKLERS DESIGNED TO PROTECT IN ACCORDANCE WITH ORDINARY HAZARD. GROUP II CLASSIFICATION IN UNFINISHED SPACE.
10. OMIT AREA INDICATED. AREA TO BE UNFINISHED SPACE. PROVIDE SPRINKLERS DESIGNED TO PROTECT IN ACCORDANCE WITH ORDINARY HAZARD. GROUP II CLASSIFICATION IN UNFINISHED SPACE.

## WALL RATING LEGEND

..... 0 HOUR SMOKE RESISTANT  
 — • — • — 1 HOUR FIRE RATED BARRIER  
 — • — 2 HOUR FIRE RATED BARRIER  
 — • — • — • — 1 HOUR SMOKE BARRIER  
 ..... 2 HOUR SMOKE BARRIER





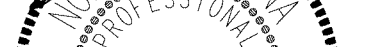


## KEY PLAN

Legend:

- EXISTING (Solid grey)
- RENOVATION (Cross-hatched)
- NEW (White)

The map shows a large grey area labeled '1' and a smaller white area labeled '42' with a cross-hatched section. A north arrow is in the top right corner.

FULLY SPRINKLERED  
FINAL DOCUMENTS FOR CONSTRUCTION

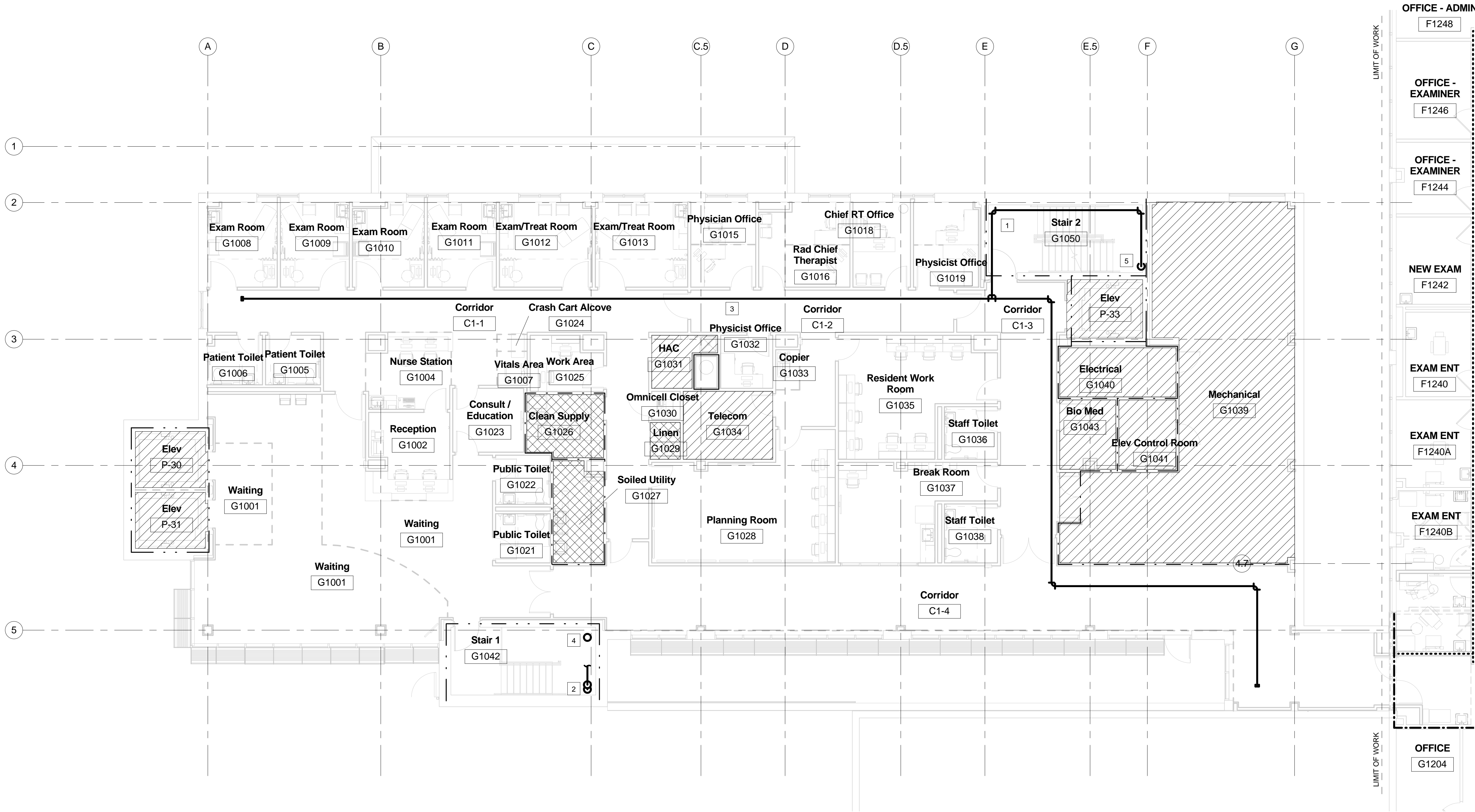
		CONSULTANTS:		PROJECT MANAGER:		Project Number 13-290		Scale As indicated		Drawing Title: LEVEL 0 FIRE SPRINKLER PLAN		Project Title VA Durham Specialty Care Building 42		Project Number 558-321		Office of Construction and Facilities Management			
		   						Raleigh, NC Indianapolis, IN Philadelphia, PA Pittsburgh, PA Virginia Beach, VA Fort Collins, CO (910) 858-7420		Approved: Project Director		Location Durham, North Carolina		Drawing Number FP101				 Department of Veterans Affairs	
Revisions		5960 Fairview Road, Suite 500 Charlotte, NC 28210 704-887-3500		111 West Main Street Durham, NC 27701 919-628-0368		P. O. Box 51967 Durham, NC 27717 919-489-0926						Date 04/28/2015		Checked JDA		Drawn SMH			

A  
B  
C  
D  
E

three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one eighth inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot

ALTERNATE NOTES  
( SEE SHEET A1108)

1. OMISSION OF ELEVATOR P-31. OMIT SPRINKLERS IN SHAFT
2. OMIT SUNDOLER DAYLIGHT HARVESTER. NO IMPACT ON SPRINKLERS.
3. REPLACE 60 MIL KEE ROOFING MEMBRANE WITH 36 MIL KEE ROOFING MEMBRANE. NO IMPACT ON SPRINKLERS.
4. OMIT ROOF GARDEN SYSTEM. NO IMPACT ON SPRINKLERS.
5. OMIT SITE WALLS, ALUMINUM GATES, TRANSLUCENT PANELS AND LANDSCAPING NEAR LOUNGES/HOLDING BAYS. NO IMPACT ON SPRINKLERS.
6. OMIT VEHICULAR ENTRANCE CANOPY. NO IMPACT ON SPRINKLERS.
7. OMIT AREA INDICATED. AREA TO BE UNFINISHED SPACE. PROVIDE SPRINKLERS DESIGNED TO PROTECT IN ACCORDANCE WITH ORDINARY HAZARD, GROUP II CLASSIFICATION IN UNFINISHED SPACE.
8. OMIT AREA INDICATED. AREA TO BE UNFINISHED SPACE. PROVIDE SPRINKLERS DESIGNED TO PROTECT IN ACCORDANCE WITH ORDINARY HAZARD, GROUP II CLASSIFICATION IN UNFINISHED SPACE.
9. OMIT AREA INDICATED. AREA TO BE UNFINISHED SPACE. PROVIDE SPRINKLERS DESIGNED TO PROTECT IN ACCORDANCE WITH ORDINARY HAZARD, GROUP II CLASSIFICATION IN UNFINISHED SPACE.
10. OMIT AREA INDICATED. AREA TO BE UNFINISHED SPACE. PROVIDE SPRINKLERS DESIGNED TO PROTECT IN ACCORDANCE WITH ORDINARY HAZARD, GROUP II CLASSIFICATION IN UNFINISHED SPACE.



1 LEVEL 1 FIRE SPRINKLER PLAN  
1/8" = 1'-0"

NFPA 13 HAZARD CLASSIFICATION

- LIGHT HAZARD  
(0.1 GPM/FT2 OVER 1,500 SQFT)
- ORDINARY HAZARD, GROUP 1  
(0.15 GPM/FT2 OVER 1,500 SQFT)
- ORDINARY HAZARD, GROUP 2  
(0.2 GPM/FT2 OVER 1,500 SQFT)

KEY NOTES FP102

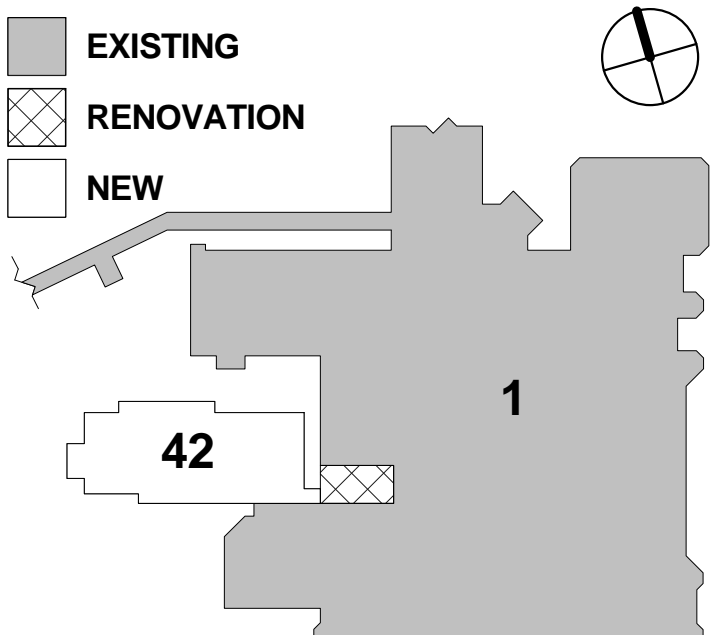
- 1 RISER CONTROL VALVE
- 2 INSPECTOR'S TEST VALVE AND DRAIN ASSEMBLY LOCATION
- 3 SPRINKLER FEED MAIN
- 4 STANDPIPE RISER
- 5 COMBINATION SPRINKLER/STANDPIPE RISER

DESIGN CRITERIA	
NFPA No:	13
OCCUPANCY CLASSIFICATION:	LIGHT HAZARD
DISCHARGE CONSTANT:	(K) AS REQ. BY SYSTEM
PIPE SIZING METHOD:	HYDRAULIC CALC.
DENSITY:	1.0 GPM/SQFT
MAXIMUM SPACING:	AS REQ'D BY SYSTEM
REMOTE AREA:	1500 SQFT
INSIDE HOSE ALLOWANCE:	100
OUTSIDE HOSE ALLOWANCE:	50 GPM
RACK SPRINKLER ALLOWANCE:	N/A
TYPE OF SYSTEM:	WET
TYPE OF PIPE:	SCH. 40 LINES; SCH. 10 MAINS
HAZEN WILLIAMS C VALVE:	120
BASE OF RISER DEMAND:	493.85 GPM @ 39.3 PSI INCLUDING 100/50 GPM INSIDE/OUTSIDE HOSE ALLOWANCE.
WATER SUPPLY:	(12-11-14) AT HYDRANT 01004, APPROXIMATELY 340' EAST OF INTERSECTION OF ERWIN RD. AND DOUGLAS RD. (ELEVATION 400')
WATER SUPPLY TEST BY:	CITY OF DURHAM
STATIC:	64 PSI RESIDUAL: 59 PSI FLOW: 737 GPM
PUMP:	NO GPM: N/A PSIG: N/A
HEADS IN CENTER OF TILES:	YES
NOTE: ALL SPRINKLER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-13, SYSTEM DESIGN BY SPRINKLER CONTRACTOR	



WALL RATING LEGEND

- 0 HOUR SMOKE RESISTANT
- 1 HOUR FIRE RATED BARRIER
- 2 HOUR FIRE RATED BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR SMOKE BARRIER

KEY PLAN



FULLY SPRINKLERED  
FINAL DOCUMENTS FOR CONSTRUCTION

<b>CONSULTANTS:</b>  5960 Fairview Road, Suite 500 Charlotte, NC 28210 704-887-3500  111 West Main Street Durham, NC 27701 919-628-0368  P. O. Box 51967 Durham, NC 27717 919-489-0926  3516 Bush Street, Suite 200 Raleigh, NC 27609 919-871-1070	<b>PROJECT MANAGER:</b>  Raleigh, NC Indianapolis, IN Philadelphia, PA Pittsburgh, PA Virginia Beach, VA Fort Collins, CO (919) 858-7420 www.apogee-pa.com	Project Number 13-290	Scale As indicated	Drawing Title: LEVEL 1 FIRE SPRINKLER PLAN	Project Title VA Durham Specialty Care Building 42	Project Number 558-321	Building Number 42	Office of Construction and Facilities Management 
Revisions Date	Approved: Project Director	Location Durham, North Carolina	Date 04/28/2015	Checked JDA	Drawn SMH	Drawing Number FP102	Dwg. of	









one eighth inch = one foot  
one quarter inch = one foot  
one half inch = one foot  
three quarters inch = one foot  
one inch = one foot  
one and one half inches = one foot  
two inches = one foot  
three inches = one foot  
four inches = one foot  
five inches = one foot  
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ninety inches = one foot  
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ninety two inches = one foot  
ninety three inches = one foot  
ninety four inches = one foot  
ninety five inches = one foot  
ninety six inches = one foot  
ninety seven inches = one foot  
ninety eight inches = one foot  
ninety nine inches = one foot  
one hundred inches = one foot

2 PARTIAL ROOF FIRE ALARM PLAN  
FA102 1/8" = 1'-0"

☆ ALTERNATE NOTES

1. OMIT ELEVATOR P-31. INFILL DOORS ON BOTH LEVELS W/ SHAFTWALL. SEE WALL TYPE 54.2 ON G104.
2. OMIT SUNDOLIER DAYLIGHT HARVESTER. OPENING IN CONCRETE FLOORS, SHAFTWALL AND CEILING FIXTURE TO REMAIN IN CONTRACT.
3. REPLACE 60 MIL KEE ROOFING MEMBRANE WITH 35 MIL KEE ROOFING MEMBRANE.
4. OMIT ROOF GARDEN SYSTEM, LANDSCAPING AT ROOF GARDEN AND GUARDRAIL SURROUNDING ROOF GARDEN. OMIT TRELLIS ON EXISTING MRI WALL. REMOVE PAVING AT ROOF GARDEN. ROOFING MEMBRANE, INSULATION AND LIQUID WATERPROOFING BELOW ROOF GARDEN TO REMAIN IN CONTRACT.
5. OMIT SITE WALLS, ALUMINUM GATES, TRANSLUCENT PANELS AND LANDSCAPING NEAR LOUNGES/HOLDING BAYS. REPLACE SITE WALLS WITH RETAINING WALL SHOWN. SEE SHEETS AE513 AND AE514.
6. OMIT VEHICULAR ENTRANCE CANOPY. REPLACE WITH PEDESTRIAN ENTRANCE CANOPY. SEE SHEET AE512. REPLACE VESTIBULE STOREFRONT WITH STOREFRONT INDICATED. OMIT SUPPORTING CAST-IN-PLACE COLUMNS AND METAL STRUCTURE AND REPLACE WITH STRUCTURE FOR PEDESTRIAN ENTRANCE CANOPY. SEE SHEET S-401.
7. OMIT AREA INDICATED. AREA TO BE UNFINISHED SPACE. INCLUDE GYPSUM BOARD AND VAPOR BARRIER ON EXTERIOR WALLS.
8. OMIT AREA INDICATED. AREA TO BE UNFINISHED SPACE. INCLUDE GYPSUM BOARD AND VAPOR BARRIER ON EXTERIOR WALLS.
9. OMIT AREA INDICATED AND ELEVATOR P-30. INFILL DOORS ON BOTH LEVELS W/ SHAFTWALL. AREA TO BE UNFINISHED SPACE. INCLUDE GYPSUM BOARD AND VAPOR BARRIER ON EXTERIOR WALLS.
10. OMIT AREA INDICATED. AREA TO BE UNFINISHED SPACE. INCLUDE GYPSUM BOARD AND VAPOR BARRIER ON EXTERIOR WALLS.

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
	FIRE ALARM SPEAKER/STROBE LIGHT-WALL MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 90" AND NOT GREATER THAN 90" AFF. #cd - CANDELA SETTING, # W - SPEAKER SETTING
	FIRE ALARM STROBE LIGHT-WALL MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 90" AND NOT GREATER THAN 90" AFF. #cd - CANDELA SETTING
	FIRE ALARM STROBE LIGHT-CEILING MOUNTED SUCH THAT THE ENTIRE LENS IS NOT GREATER THAN 10'-0" AFF. #cd - CANDELA SETTING
	FIRE ALARM SPEAKER/STROBE LIGHT-CEILING MOUNTED SUCH THAT THE ENTIRE LENS IS NOT GREATER THAN 10'-0" AFF. #cd - CANDELA SETTING, # W - SPEAKER SETTING
	MANUAL FIRE ALARM PULL STATION TO BE LOCATED WITHIN 5'-0" OF THE EXIT DOORWAY OPENING. MIN. 42" AFF. MAX. 48" AFF.
	FIRE ALARM CONTROL PANEL
	FIRE ALARM EXTENDER PANEL
	FIRE ALARM ANNUNCIATOR
	SMOKE DETECTOR
	HEAT DETECTOR
	SMOKE DUCT DETECTOR
	FLOW SWITCH
	TAMPER SWITCH
	SMOKE DAMPER
	FIRE ALARM VOICE SPEAKER
	DOOR HOLD OPEN
	POST INDICATOR VALVE
	FIRE ALARM BELL
	FIRE ALARM REMOTE SWITCH

GENERAL NOTES:

- A. ALL FIRE ALARM DEVICES AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, THE MANUFACTURER'S RECOMMENDED PROCEDURES, ALL APPLICABLE LOCAL AND STATE CODES, AMERICAN DISABILITIES ACT AND WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, IBCS STANDARDS, AND VA STANDARDS.
- B. CONTRACTOR SHALL COORDINATE THE LOCATION OF CEILING MOUNTED FIRE ALARM DEVICES WITH LOCATION OF CEILING MOUNTED LIGHTING AND HVAC DIFFUSERS.
- C. CONTRACTOR SHALL COORDINATE ALL WALL MOUNTED DEVICES WITH ARCHITECTURAL DRAWINGS.
- D. ALL FIRE ALARM CABLEING SHALL BE IN FACTORY PAINTED RED EMT CONDUIT.
- E. A CORRIDOR, ROOM, OR ADJACENT SPACE WITH TWO OR MORE VISIBLE FIRE ALARM NOTIFICATION DEVICES WITHIN THE FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION.
- F. CONTRACTOR SHALL COORDINATE ALL THE SPRINKLER SYSTEM POST INDICATOR VALVE, TAMPER SWITCH, AND FLOW SWITCH LOCATIONS WITH THE SPRINKLER CONTRACTOR.
- G. POST INDICATOR VALVE SHALL HAVE TAMPER AND FLOW SWITCHES CONNECTED INTO THE FIRE ALARM SYSTEM. SEE CIVIL PLANS FOR LOCATIONS.
- H. SEE E-002 FOR ELECTRICAL BID ALTERNATES.

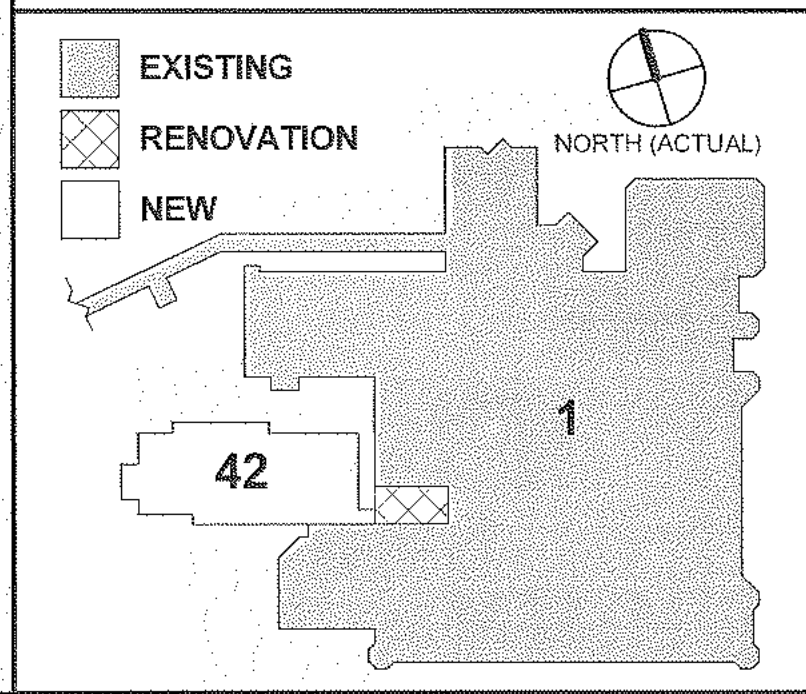
④ SHEET KEY NOTES:

1. FIRE ALARM CONTROL PANEL. SEE SHEET FA501 FOR DETAILS. SEE SHEETS EY103 AND EY104 FOR FIRE ALARM CONTROL PANEL CABLE ROUTING.
2. PROVIDE SMOKE AND HEAT DETECTORS (OR COMBINATION DEVICE) AT TOP OF ELEVATOR SHAFT.

WALL RATING LEGEND

- 0 HOUR SMOKE RESISTANT
- 1 HOUR FIRE RATED BARRIER
- 2 HOUR FIRE RATED BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR SMOKE BARRIER

KEY PLAN



FULLY SPRINKLERED  
FINAL CONSTRUCTION DOCUMENTS

1 LEVEL 1 FIRE ALARM PLAN  
FA102 1/8" = 1'-0"

CONSULTANTS:

5690 Fairview Road, Suite 500  
Charlotte, NC 28210  
704-887-3500

111 West Main Street  
Durham, NC 27701  
919-628-0368

P. O. Box 51967  
Durham, NC 27717  
919-489-0926

3516 Bush Street, Suite 200  
Raleigh, NC 27609  
919-871-1070

PROJECT MANAGER:

Raleigh, NC  
Indianapolis, IN  
Philadelphia, PA  
Pittsburgh, PA  
Virginia Beach, VA  
Fort Collins, CO  
(919) 858-7420

Project Number 13-290  
Scale As indicated

Drawing Title:  
LEVEL 1 AND PARTIAL ROOF FIRE ALARM PLAN

Approved: Project Director

Project Title  
VA Durham Specialty  
Care Building 42

Location  
Durham, North Carolina

Date 04/28/2015  
Checked JKM/R5B  
Drawn EAG

Project Number 558-321  
Building Number 42  
Drawing Number FA102  
Dwg. 2 of 3

Office of  
Construction  
and Facilities  
Management

Department of  
Veterans Affairs
























1. **FIRE:**  
FIRE ALARM SYSTEM SHALL BE INTERCONNECTED WITH ACCESS CONTROL SYSTEM TO ALLOW EGRESS DURING ALARM CONDITIONS. COORDINATE BETWEEN ACCESS CONTROL SYSTEM AND FIRE ALARM SYSTEM FOR EGRESS CONTROL.
2. ALL FIRE ALARM WIRING SHALL BE IN EMT CONDUIT FACTORY PAINTED RED.
3. ALL WIRING SHALL BE AS RECOMMENDED BY MANUFACTURER.
4. PROVIDE SEPARATE OUTPUT SIGNALS TO AIR HANDLER UNIT VFD FOR INDIVIDUAL UNIT SHUT-DOWN.
5. PROVIDE ZONE ADAPTER MODULES TO CONNECT NON-ADDRESSABLE DEVICES SUCH AS FLOW AND TAMPER SWITCHES, DOOR-HOLD-OPEN DEVICES, AND CONTROL SIGNALS.
6. PROVIDE POWER SUPPLY AND/ONK NAC (NOTIFICATION APPLIANCE CIRCUIT) PANEL AS REQUIRED FOR ADDITIONAL DEVICES.
7. PROVIDE POWER AMPLIFIERS FOR ALL SPEAKERS.
8. NEW SYSTEM SHALL MATCH EXISTING SIMPLEX/GRINELL 4100 ES.
9. PROVIDE ADDRESSABLE RELAY MODULES FOR ELEVATOR PRIMARY RECALL, ELEVATOR ALT. RECALL AND IN CAB NOTIFICATION.
10. PROVIDE ADDRESSABLE CONTROL MODULES FOR ELEVATOR KEEPER.
11. PROVIDE ADDRESSABLE INTERFACE MODULES FOR ELEVATOR EMERGENCY SHUNT POWER SUPERVISION.

FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX											
INPUT DEVICE ↓		OUTPUT →									
		1. SOUND GENERAL BUILDING ALARM FOR OTHER AND HIGH RISE (NOTIFY BUILDING OCCUPANTS) SEE SECTION 7.2.1	2. NOTIFY NECESSARY PERSONNEL AND AGENCIES FOR HEALTH CARE AND HIGH RISE BUILDINGS (NOTIFY BUILDING OCCUPANTS AND AGENCIES MAY BE DIFFERENT ON DIFFERENT FLOORS).	3. NOTIFY FIRE DEPARTMENT.	4. INITIATE SUPERVISORY CONTROL FOR MANAGED POINT FOR IMMEDIATE RESPONSE.	5. CLOSE/REOPEN/SLUTTE SMOKE BARRIER DOORS ON THE FLOOR.	6. CLOSE DAMPERS ON EXHAUST/INTAKE TO DETECTOR.	7. SHUT DOWN AND HANDLER SERVED BY THE DETECTOR.	8. RECALL ELEVATOR.		
DUCT SMOKE DETECTOR *					X		X	X a			
AREA SMOKE DETECTOR *		X	X	X							
DOOR RELEASE SMOKE DETECTOR *		X	X	X		X	X				
ELEVATOR SMOKE DETECTOR *		X	X	X						X	
MANUAL PULL STATION		X	X	X			X				
ELEVATOR MACHINE ROOM HEAT DETECTOR		X	X	X							
GENERATOR ROOM HEAT DETECTOR		X	X	X							
SPRINKLER WATERFLOW / PRESSURE SWITCH		X	X	X		X					
WATER CONTROL VALVE TAMPER					X						
HIGH/LOW PRESSURE DRY-PIPE SPRINKLER SYSTEM					X						
GAS EXTINGUISHING SYSTEMS		X	X	X		X					
DRY-PIPE VALVE ROOM TEMPERATURE ALARM						X					


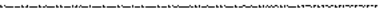




\* WHILE NFPA 101 DOES NOT REQUIRE SOME DETECTORS TO NOTIFY BUILDING OCCUPANTS, VA REQUIRES ALL SMOKE DETECTORS, OTHER THAN DUCT SMOKE DETECTORS, TO NOTIFY BUILDING OCCUPANTS AS REQUIRED BY THE LIFE SAFETY CODE OR ITS REFERENCES.

\*\* THOSE DOORS THAT ARE REQUIRED TO BE TIED TO THE FIRE ALARM SYSTEM SUCH AS DELAYED EGRESS AND ACCESS CONTROLLED DOORS.

a. DO NOT PROVIDE DUCT DETECTORS IN DEDICATED (100%) EXHAUST FANS, THEY SHOULD CONTINUE TO RUN.

FIRE ALARM LEGEND	
SYMBOL	DESCRIPTION
	FIRE ALARM SPEAKER/STROBE LIGHT-WALL MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80° AND NOT GREATER THAN 90° AFF #cd - CANDELA SETTING, # W - SPEAKER SETTING
	FIRE ALARM STROBE LIGHT-WALL MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80° AND NOT GREATER THAN 90° AFF #cd - CANDELA SETTING
	FIRE ALARM STROBE LIGHT-CEILING MOUNTED SUCH THAT THE ENTIRE LENS IS NOT GREATER THAN 10° AFF #cd - CANDELA SETTING
	FIRE ALARM SPEAKER/STROBE LIGHT-CEILING MOUNTED SUCH THAT THE ENTIRE LENS IS NOT GREATER THAN 10° AFF #cd - CANDELA SETTING, # W - SPEAKER SETTING
	MANUAL FIRE ALARM PULL STATION TO BE LOCATED WITHIN 5'-0" OF THE EXIT DOORWAY OPENING. MIN. 42" AFF, MAX. 48" AFF.
	FIRE ALARM CONTROL PANEL
	FIRE ALARM EXTENDER PANEL
	FIRE ALARM ANNUNCIATOR
	SMOKE DETECTOR
	HEAT DETECTOR
	SMOKE DUCT DETECTOR
	FLOW SWITCH
	TAMPER SWITCH
	SMOKE DAMPER
	FIRE ALARM VOICE SPEAKER
	DOOR HOLD OPEN
	POST INDICATOR VALVE
	FIRE ALARM BELL
	FIRE ALARM REMOTE SWITCH

1. FIRE ALARM SYSTEM AND COMPONENTS SHALL MEET THE FOLLOWING CODES:
  - A. NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEM
  - B. NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE SYSTEM.
  - C. NFPA 20 - STANDARD FOR THE INSTALLATION OF FIRE PUMP.
  - D. NFPA 70 - NATIONAL ELECTRIC CODE.
  - E. NFPA 72 - NATIONAL FIRE ALARM CODE.
  - F. NFPA 96A STANDARD FOR THE INSTALLATION OF AIR CONDITIONING.
  - G. NFPA 101 - LIFE SAFETY CODE.
  - H. VA STANDARDS.
  - I. ANSI S34 1 AUDIBLE EMERGENCY EVACUATION SIGNAL.
2. FIRE ALARM SYSTEM SHALL COMPLY WITH FACTORY MUTUAL RESEARCH CORPORATION (FM).
3. ALL FIRE ALARM CABLING SHALL BE IN CONDUIT. CONDUIT SHALL BE FACTORY PAINTED RED.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING FIRE ALARM SYSTEM IN THE AREA OF WORK AND ADJACENT AREAS FULLY PRIOR TO THE START OF WORK. ANY DEFICIENCIES OR NON-OPERATION OF COMPONENTS OF THE FIRE ALARM SYSTEM SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER AT THAT TIME. UPON COMPLETION OF WORK, THE AFFECTED AREA OF WORK AND ADJACENT AREAS SHALL AGAIN BE FULLY TESTED 100%. ANY PORTION OF THE FIRE ALARM SYSTEM WHICH IS NON-FUNCTIONAL OR NON-COMPLIANT WITHIN THE AREA OF WORK OR ADJACENT SPACES AT THAT TIME SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.

		CONSULTANTS:				PROJECT MANAGER:		Project Number 13-290		Scale N.T.S.		Drawing Title: FIRE ALARM DETAILS		Project Title VA Durham Specialty Care Building 42		Project Number 558-321		Office of Construction and Facilities Management			
		 5960 Fairview Road, Suite 500 Charlotte, NC 28210 704-887-3500		 111 West Main Street Durham, NC 27701 919-628-0368		 P.O. Box 51967 Durham, NC 27717 919-689-0926		 3516 Bush Street, Suite 200 Raleigh, NC 27609 919-871-1070				 Raleigh, NC Indianapolis, IN Philadelphia, PA Pittsburgh, PA Virginia Beach, VA Fort Collins, CO (919) 858-7420		Approved: Project Director		Location Durham, North Carolina				Drawing Number FA501	
Revisions		Date												Date 04/28/2015		Checked JKM/RSB		Drawn EAG		Dwg. 3 of 3	

FULLY SPRINKLERED  
FINAL CONSTRUCTION DOCUMENTS

Office of  
Construction  
and Facilities  
Management

 Department of  
Veterans Affairs