



HH MCGUIRE
VA MEDICAL CENTER
RICHMOND, VIRGINIA

MENTAL HEALTH RECOVERY
ENHANCEMENT CENTER
PROJECT NO. 652.310.500

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AUGUST 24, 2012



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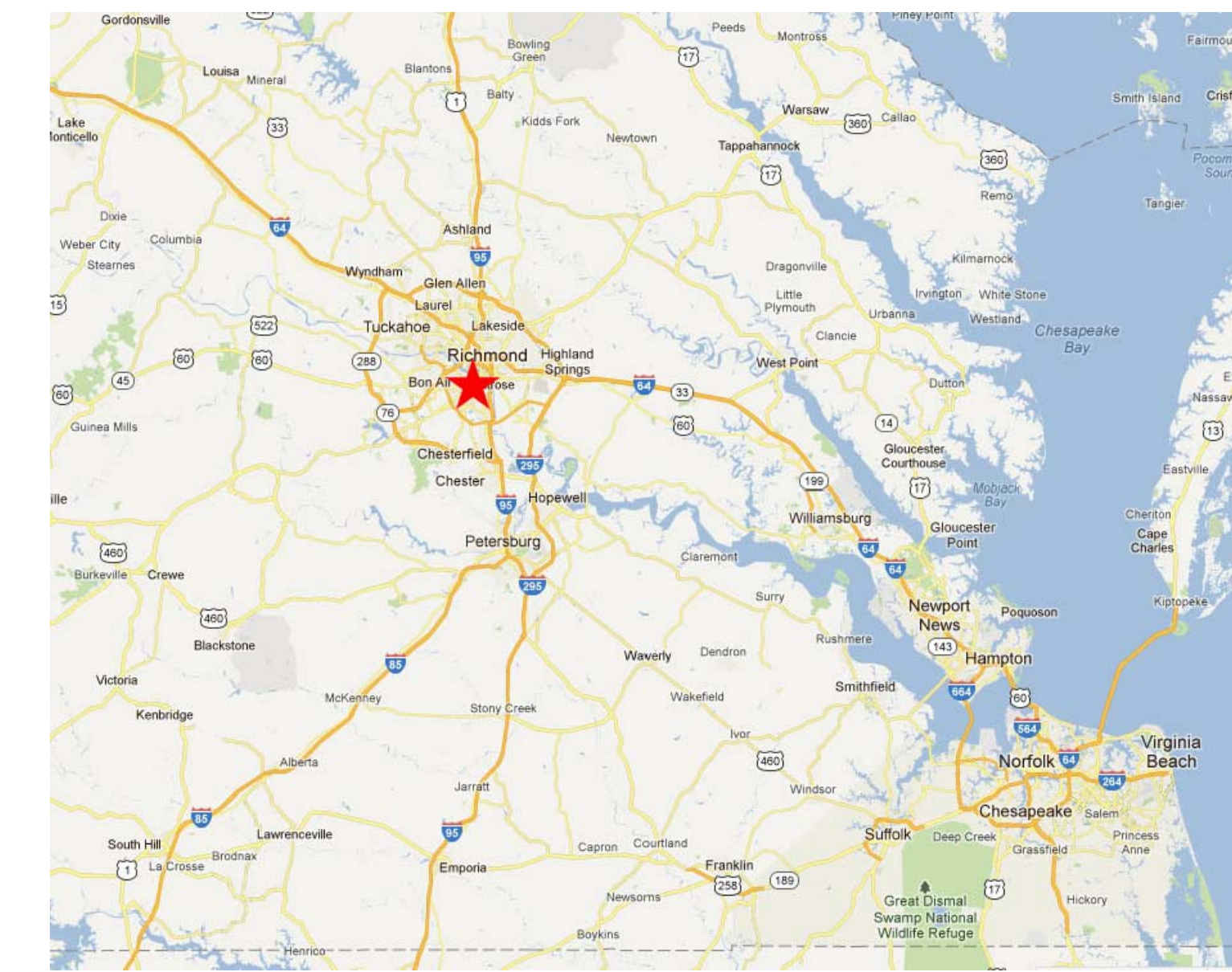
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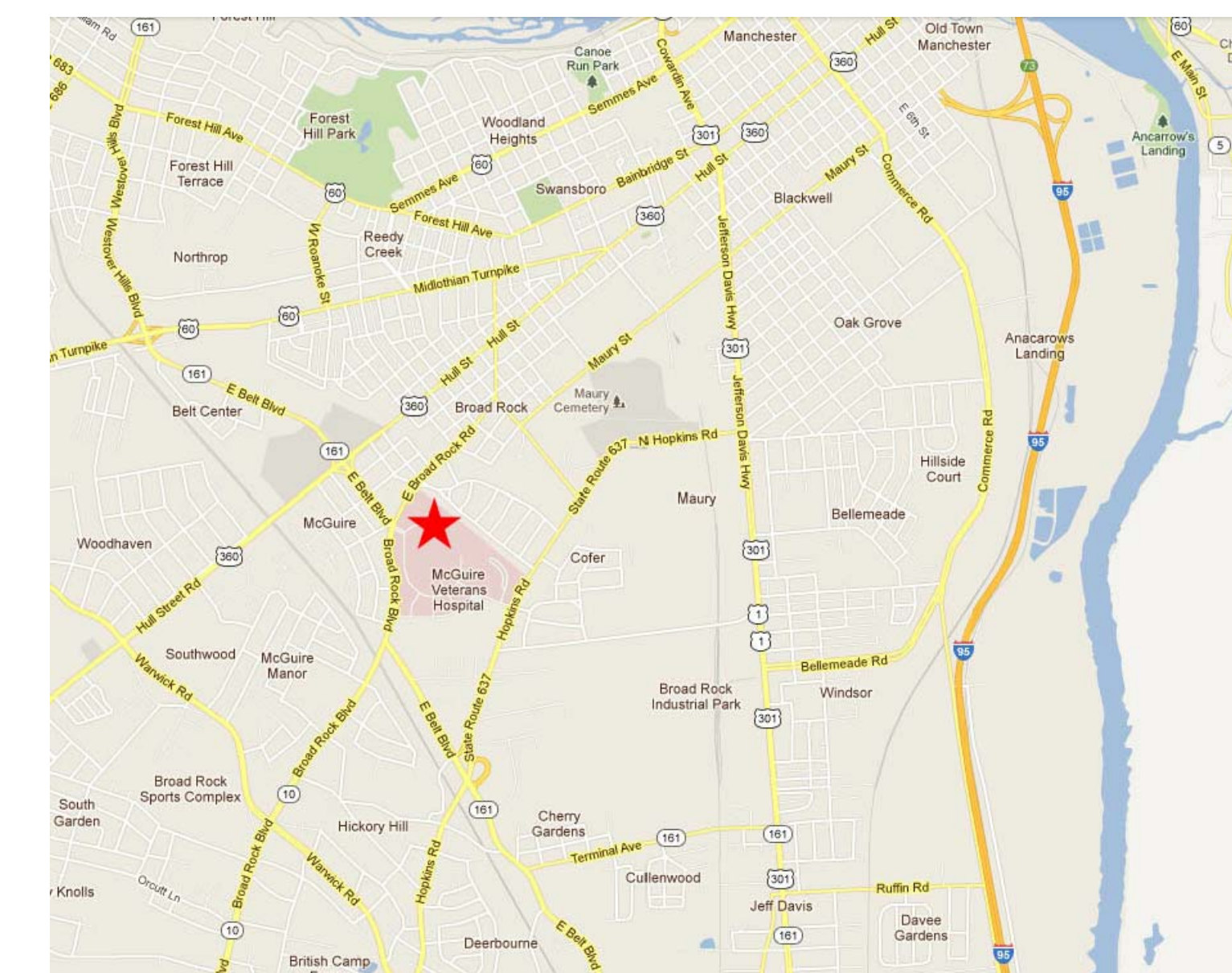
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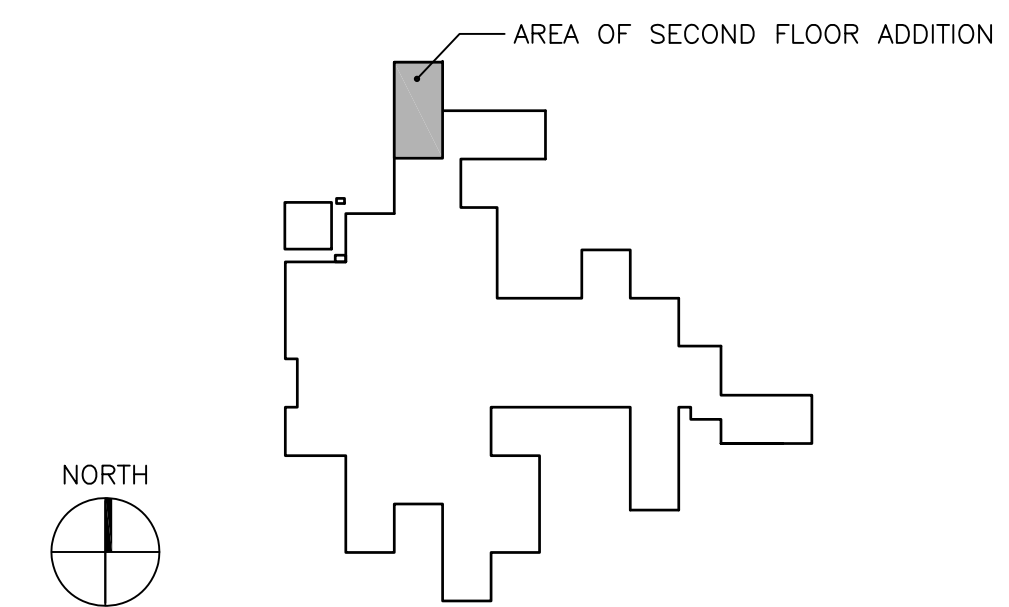
VICINITY MAP



LOCATION MAP



KEY PLAN



FULLY SPRINKLERED

A QUALITY CONTROL ASSURANCE CHECK HAS BEEN MADE ON THIS PROJECT'S DOCUMENTS AND CORRECTIONS HAVE BEEN MADE. THE UNDERSIGNED STATES THAT THESE PLANS AND SPECIFICATIONS SUBMITTED FOR REVIEW ARE COMPLETE AND READY FOR BIDDING.

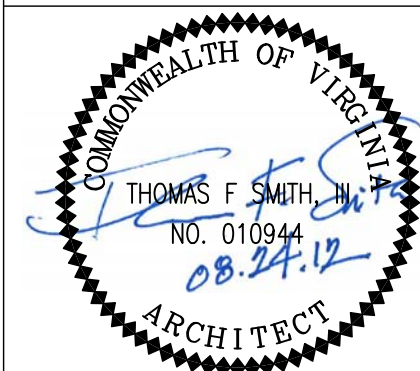
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PRESIDENT

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Drawing Title
DRAWING INDEX

Approved Project Director

Project Title
Mental Health Recovery
Enhancement Center
HH McGuire VA Medical Center

Location
Richmond, VA

Date
08.24.12
FOR CONSTRUCTION

Checked
TFS

Drawn
JMG

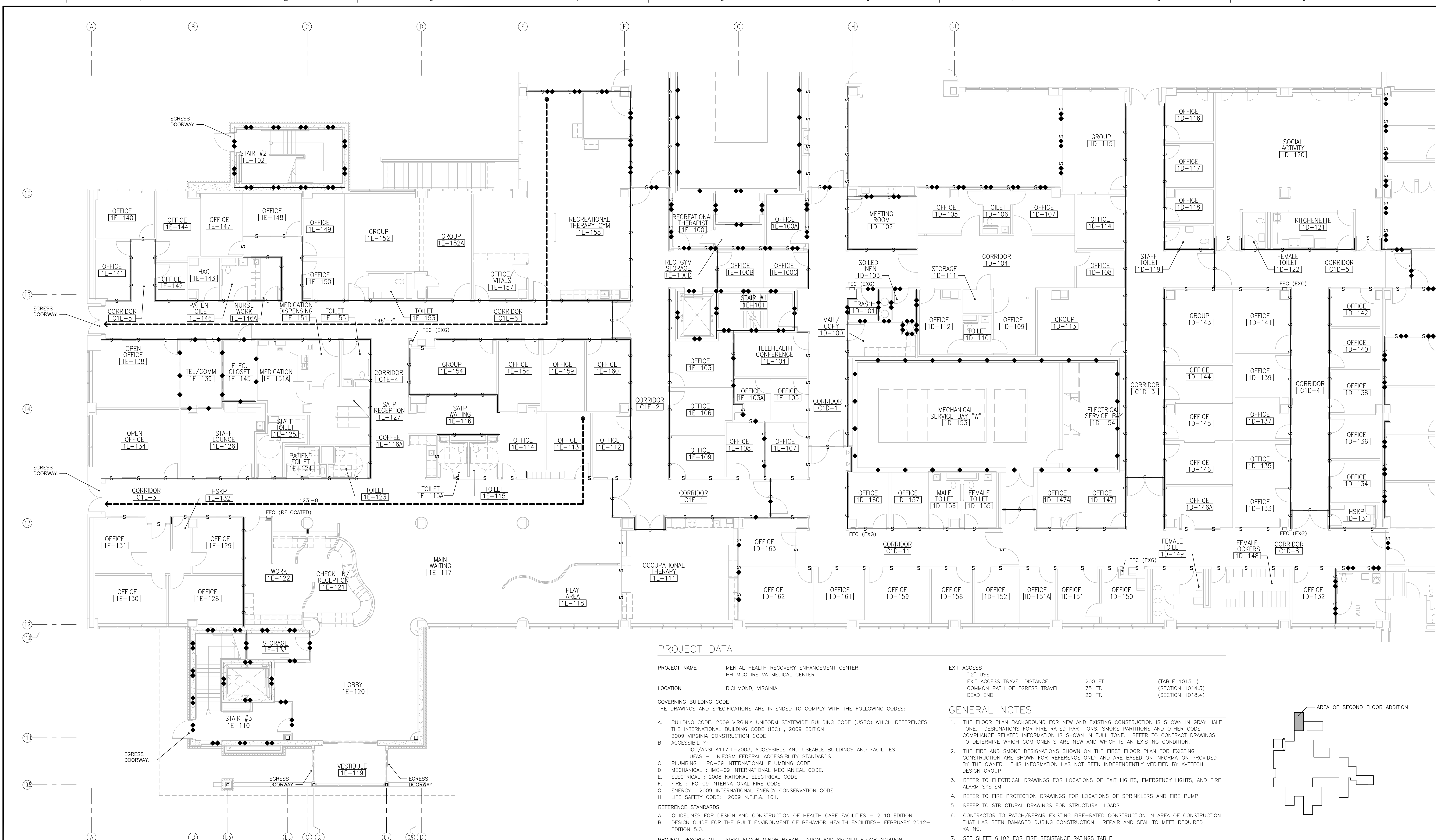
Project Number
310
Building Number
500

Drawing Number
GIO01

Office of
Construction
and Facilities
Management



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 quarter inch = one foot
 one eighth inch = one foot



FIRST FLOOR LIFE SAFETY PLAN
 SCALE: 1/8" = 1'-0"

PROJECT DATA

PROJECT NAME	MENTAL HEALTH RECOVERY ENHANCEMENT CENTER HH MCGUIRE VA MEDICAL CENTER	EXIT ACCESS	"12" USE	
LOCATION	RICHMOND, VIRGINIA	EXIT ACCESS TRAVEL DISTANCE	200 FT.	(TABLE 1016.1)
GOVERNING BUILDING CODE	THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COMPLY WITH THE FOLLOWING CODES:	COMMON PATH OF EGRESS TRAVEL	75 FT.	(SECTION 1014.3)
A. BUILDING CODE:	2009 VIRGINIA UNIFORM STATEWIDE BUILDING CODE (USBC) WHICH REFERENCES THE INTERNATIONAL BUILDING CODE (IBC), 2009 EDITION	DEAD END	20 FT.	(SECTION 1018.4)
B. ACCESSIBILITY:	ICC/ANSI A117.1-2003, ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES UFAS - UNIFORM FEDERAL ACCESSIBILITY STANDARDS			
C. PLUMBING:	IPC-09 INTERNATIONAL PLUMBING CODE.			
D. MECHANICAL:	IMC-09 INTERNATIONAL MECHANICAL CODE.			
E. ELECTRICAL:	2008 NATIONAL ELECTRICAL CODE.			
F. FIRE:	IFC-09 INTERNATIONAL FIRE CODE.			
G. ENERGY:	2009 INTERNATIONAL ENERGY CONSERVATION CODE			
H. LIFE SAFETY CODE:	2009 N.F.P.A. 101.			

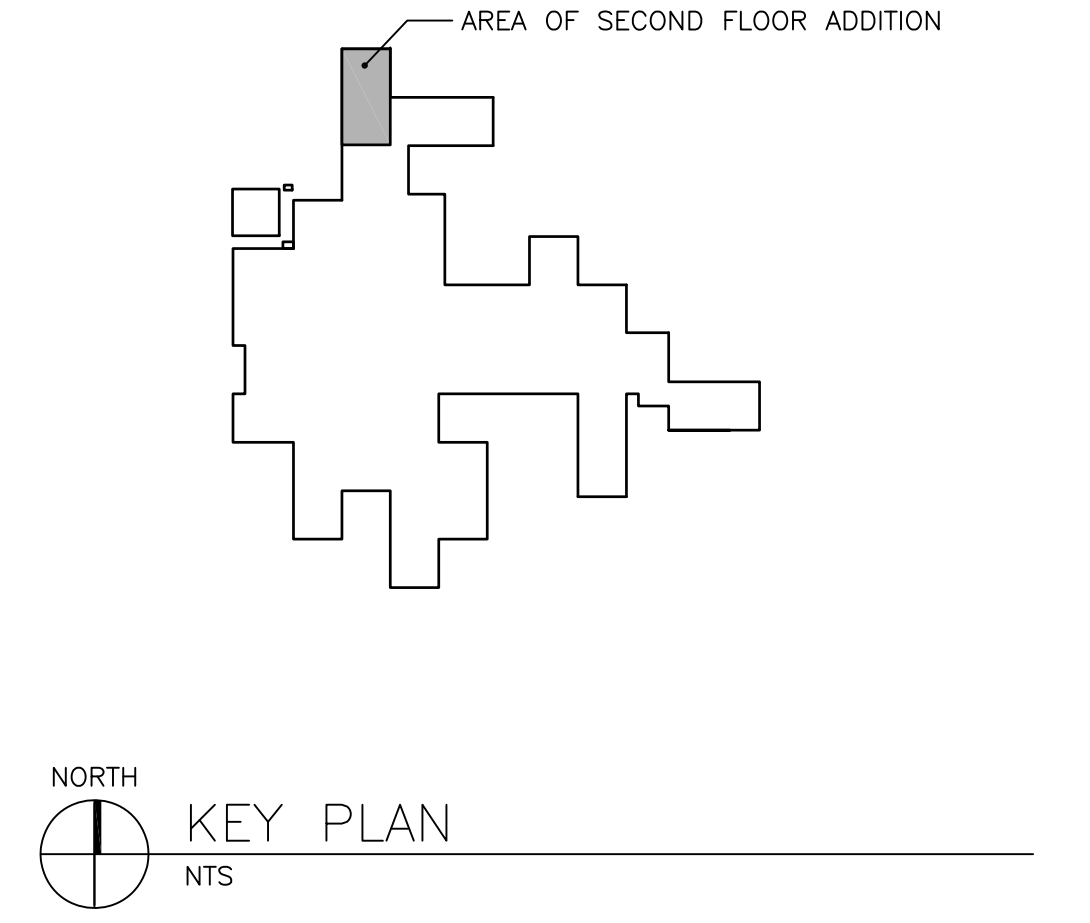
- REFERENCE STANDARDS**
- A. GUIDELINES FOR DESIGN AND CONSTRUCTION OF HEALTH CARE FACILITIES - 2010 EDITION.
 - B. DESIGN GUIDE FOR THE BUILT ENVIRONMENT OF BEHAVIOR HEALTH FACILITIES- FEBRUARY 2012- EDITION 5.0.
- PROJECT DESCRIPTION** FIRST FLOOR MINOR REHABILITATION AND SECOND FLOOR ADDITION
- USE OR OCCUPANCY :**
 1-2 INSTITUTIONAL (SECTION 303)
 PRIMARY USE: MEDICAL OFFICE BUILDING
- TYPE OF CONSTRUCTION :**
 NONCOMBUSTIBLE PROTECTED CONSTRUCTION CLASSIFICATION: TYPE 1B (SECTION 602)
- FIRE SUPPRESSION SYSTEM :**
 EXISTING BUILDING IS FULLY SPRINKLED
 NEW ADDITION AND CONSTRUCTION IS TO BE FULLY SPRINKLED PER NFPA 13.

GENERAL NOTES

1. THE FLOOR PLAN BACKGROUND FOR NEW AND EXISTING CONSTRUCTION IS SHOWN IN GRAY HALF TONE. DESIGNATIONS FOR FIRE RATED PARTITIONS, SMOKE PARTITIONS AND OTHER CODE COMPLIANCE RELATED INFORMATION IS SHOWN IN FULL TONE. REFER TO CONTRACT DRAWINGS TO DETERMINE WHICH COMPONENTS ARE NEW AND WHICH IS AN EXISTING CONDITION.
2. THE FIRE AND SMOKE DESIGNATIONS SHOWN ON THE FIRST FLOOR PLAN FOR EXISTING CONSTRUCTION ARE SHOWN FOR REFERENCE ONLY AND ARE BASED ON INFORMATION PROVIDED BY THE OWNER. THIS INFORMATION HAS NOT BEEN INDEPENDENTLY VERIFIED BY AVETECH DESIGN GROUP.
3. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF EXIT LIGHTS, EMERGENCY LIGHTS, AND FIRE ALARM SYSTEM.
4. REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS OF SPRINKLERS AND FIRE PUMP.
5. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL LOADS.
6. CONTRACTOR TO PATCH/REPAIR EXISTING FIRE-RATED CONSTRUCTION IN AREA OF CONSTRUCTION THAT HAS BEEN DAMAGED DURING CONSTRUCTION. REPAIR AND SEAL TO MEET REQUIRED RATING.
7. SEE SHEET G102 FOR FIRE RESISTANCE RATINGS TABLE.

LEGEND

--- (dashed line)	PATH OF TRAVEL	◆ (diamond)	1 HR RATED SMOKE BARRIER
—◆— (line with diamond)	1 HR FIRE RESISTIVE RATED LINE	◆◆ (double diamond)	2 HR RATED SMOKE BARRIER
—◆◆— (line with double diamond)	2 HR FIRE RESISTIVE RATED LINE	□ (square)	FIRE EXTINGUISHER CABINET
-S-	SMOKE PARTITION		



FULLY SPRINKLERED

Revisions	Date

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Drawing Title
FIRST FLOOR LIFE SAFETY PLAN

Approved Project Director

Project Title
 Mental Health Recovery Enhancement Center
 HH McGuire VA Medical Center

Location
 Richmond, VA

Date
 08/24/12 FOR CONSTRUCTION

Checked
 TFS

Drawn
 JMG

Project Number
 310

Building Number
 500

Drawing Number
 G101

Office of Construction and Facilities Management

Department of Veterans Affairs

PROJECT DATA

PROJECT NAME: MENTAL HEALTH RECOVERY ENHANCEMENT CENTER
 HH MCGUIRE VA MEDICAL CENTER
 LOCATION: RICHMOND, VIRGINIA
 GOVERNING BUILDING CODE: 2009 VIRGINIA CONSTRUCTION CODE
 THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COMPLY WITH THE FOLLOWING CODES:
 A. BUILDING CODE: 2009 VIRGINIA UNIFORM STATEWIDE BUILDING CODE (USBC) WHICH REFERENCES THE INTERNATIONAL BUILDING CODE (IBC), 2009 EDITION
 B. ACCESSIBILITY: ICC/ANSI A117.1-2003, ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES
 C. PLUMBING: IPC-09 INTERNATIONAL PLUMBING STANDARDS
 D. MECHANICAL: IMC-09 INTERNATIONAL MECHANICAL CODE
 E. ELECTRICAL: 2009 NATIONAL ELECTRICAL CODE
 F. FIRE: IFC-09 INTERNATIONAL FIRE CODE
 G. ENERGY: 2009 INTERNATIONAL ENERGY CONSERVATION CODE
 H. LIFE SAFETY CODE: 2009 N.F.P.A. 101
 REFERENCE STANDARDS
 A. GUIDELINES FOR DESIGN AND CONSTRUCTION OF HEALTH CARE FACILITIES - 2010 EDITION
 B. DESIGN GUIDE FOR THE BUILT ENVIRONMENT OF BEHAVIOR HEALTH FACILITIES- FEBRUARY 2012- EDITION 5.0

PROJECT DESCRIPTION: FIRST FLOOR MINOR REHABILITATION AND SECOND FLOOR ADDITION
 USE OR OCCUPANCY: I-2 INSTITUTIONAL (SECTION 303)
 PRIMARY USE: MEDICAL OFFICE BUILDING
 TYPE OF CONSTRUCTION: NONCOMBUSTIBLE PROTECTED
 CONSTRUCTION CLASSIFICATION: TYPE 1B (SECTION 602)
 FIRE SUPPRESSION SYSTEM: EXISTING BUILDING IS FULLY SPRINKLED
 NEW ADDITION AND CONSTRUCTION IS TO BE FULLY SPRINKLED PER NFPA 13.

EXIT ACCESS
 "12" USE
 EXIT ACCESS TRAVEL DISTANCE: 200 FT. (TABLE 1018.1)
 COMMON PATH OF EGRESS TRAVEL: 75 FT. (SECTION 1014.3)
 DEAD END: 20 FT. (SECTION 1018.4)
 SEPARATION OF EXITS: 208'-8" / 3 = 69'-7" (SECTION 1015.2.1)

OCCUPANT LOAD CALCULATIONS (TABLE 1004.1.1)

ROOM NAME	ROOM NUMBER	SF/OCC	AREA	OCC	OCCUPANCY LOAD
SATP DAYROOM	206/207	1,836	11,700	117	109
PRRC DAYROOM	226/227	1,200	1,697	17	80
GROUP	203	374	4,584	306	25
CONFERENCE	257	241	15	15	16
GROUP	260	404	15	15	27
GROUP	263	332	15	15	22
CONFERENCE	265	216	15	15	15
BREAK ROOM	255	181	15	15	12
TOTAL		4,584		306	

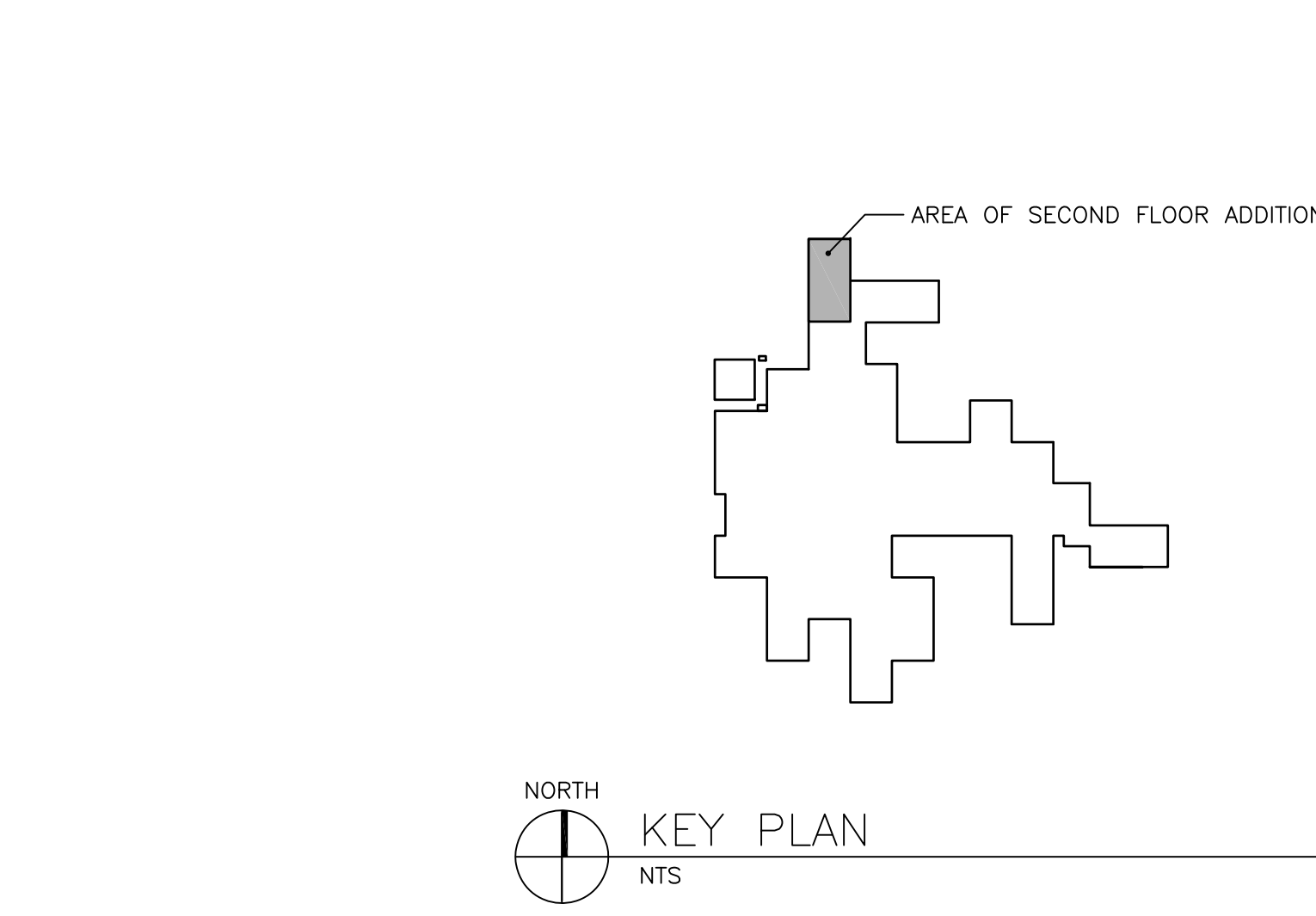
EGRESS WIDTH CALCULATIONS (SECTION 1005)

OCCUPANCY	INCHES/OCC	INCHES REQUIRED	INCHES PROVIDED
DOORS/CORRIDORS	440	0.2	88
STAIRS	440	0.3	132

MINIMUM NUMBER OF EXITS (TABLE 1021.1)
 OCCUPANCY = 1-500
 REQUIRED: 2
 PROVIDED: 2

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

FIXTURE	INSTITUTIONAL EMPLOYEES REQUIRED	INSTITUTIONAL VISITORS REQUIRED	TOTAL REQUIRED	TOTAL PROVIDED
WATER CLOSET	5	6	11	12
LAVATORY	4	4	8	12
DRINKING FOUNTAIN	2	1	3	4
SERVICE SINK	1	1	1	1



FIRE RESISTANCE RATINGS

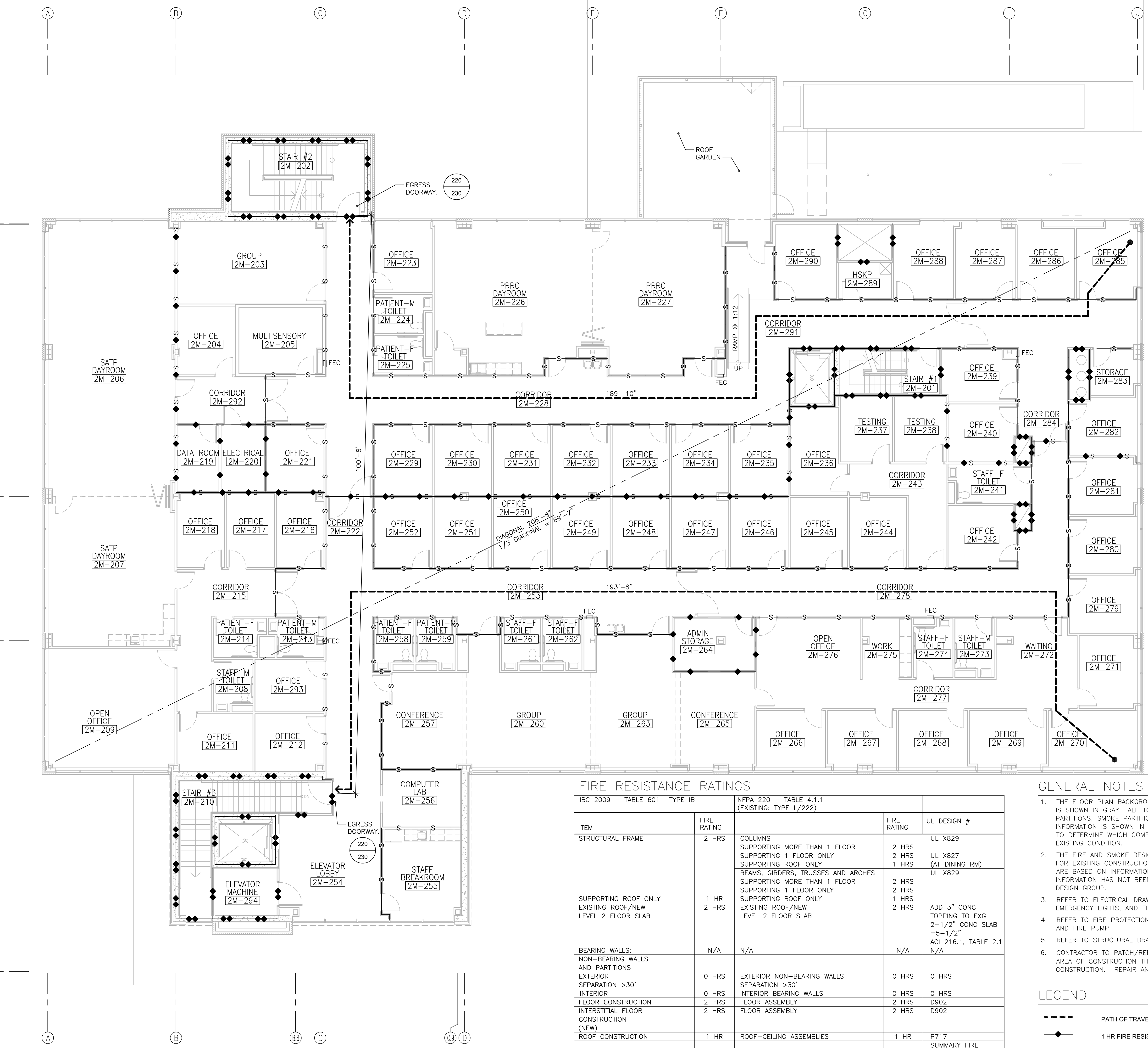
ITEM	IBC 2009 - TABLE 601 -TYPE 1B	NFPA 220 - TABLE 4.1.1 (EXISTING: TYPE II/222)	FIRE RATING	UL DESIGN #
STRUCTURAL FRAME	2 HRS	COLUMNS SUPPORTING MORE THAN 1 FLOOR SUPPORTING 1 FLOOR ONLY SUPPORTING ROOF ONLY	2 HRS 2 HRS 1 HRS	UL X829 UL X827 (AT DINING RM) UL X829
SUPPORTING ROOF ONLY EXISTING ROOF/NEW LEVEL 2 FLOOR SLAB	1 HR 2 HRS	SUPPORTING MORE THAN 1 FLOOR SUPPORTING 1 FLOOR ONLY SUPPORTING ROOF ONLY EXISTING ROOF/NEW LEVEL 2 FLOOR SLAB	2 HRS 2 HRS 2 HRS	ADD 3" CONC TOPPING TO EXG 2-1/2" CONC SLAB =5-1/2" AOI 216.1, TABLE 2.1
BEARING WALLS: NON-BEARING WALLS AND PARTITIONS EXTERIOR SEPARATION >30"	N/A	N/A	N/A	N/A
INTERIOR FLOOR CONSTRUCTION INTERSTITIAL FLOOR CONSTRUCTION (NEW)	0 HRS 2 HRS	EXTERIOR NON-BEARING WALLS INTERIOR BEARING WALLS FLOOR ASSEMBLY FLOOR ASSEMBLY	0 HRS 0 HRS 2 HRS 2 HRS	0 HRS 0 HRS D902 D902
ROOF CONSTRUCTION	1 HR	ROOF-CEILING ASSEMBLIES	1 HR	P717
MISCELLANEOUS RATINGS: IBC 2009:		NFPA 101:		SUMMARY FIRE RATING
SHAFT ENCLOSURES	2 HR	SHAFT ENCLOSURES <4 STORIES	1 HR	REFER TO PARTITION TYPES ON SHEET AE003
CORRIDORS VERTICAL EXIT ENCLOSURES	0 HRS	CORRIDORS- SMOKE TIGHT VERTICAL EXIT ENCLOSURES <4 STORIES	0 HRS	
SMOKE BARRIERS SOILED LINEN ROOMS STORAGE ROOMS	2 HR 1 HR 0 HR	SMOKE BARRIERS <4 STORIES SMOKE BARRIERS SOILED LINEN ROOMS	1 HR 1 HR 1 HR	

GENERAL NOTES

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- CONTRACTOR TO PATCH/REPAIR EXISTING FIRE-RATED CONSTRUCTION IN AREA OF CONSTRUCTION THAT HAS BEEN DAMAGED DURING CONSTRUCTION. REPAIR AND SEAL TO MEET REQUIRED RATING.

LEGEND

- PATH OF TRAVEL
- ◆ 1 HR FIRE RESISTIVE RATED LINE
- ◆ 2 HR FIRE RESISTIVE RATED LINE
- ◆ 1 HR RATED SMOKE BARRIER
- SMOKE PARTITION
- FECS FIRE EXTINGUISHER CABINET
- 80 CODE REQUIRED EXIT CAPACITY (REQUIRED)
- 100 PROVIDED EXIT CAPACITY (ACTUAL)

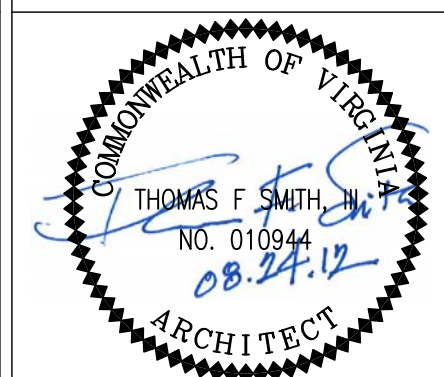


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Project Title: **SECOND FLOOR LIFE SAFETY PLAN**

Approved Project Director: _____

Project Name: **Mental Health Recovery Enhancement Center**
 HH McGuire VA Medical Center

Location: **Richmond, VA**

Date: **08/24/12 FOR CONSTRUCTION**

Checked: **BCC**

Drawn: **JMY**

Project Number: **310**

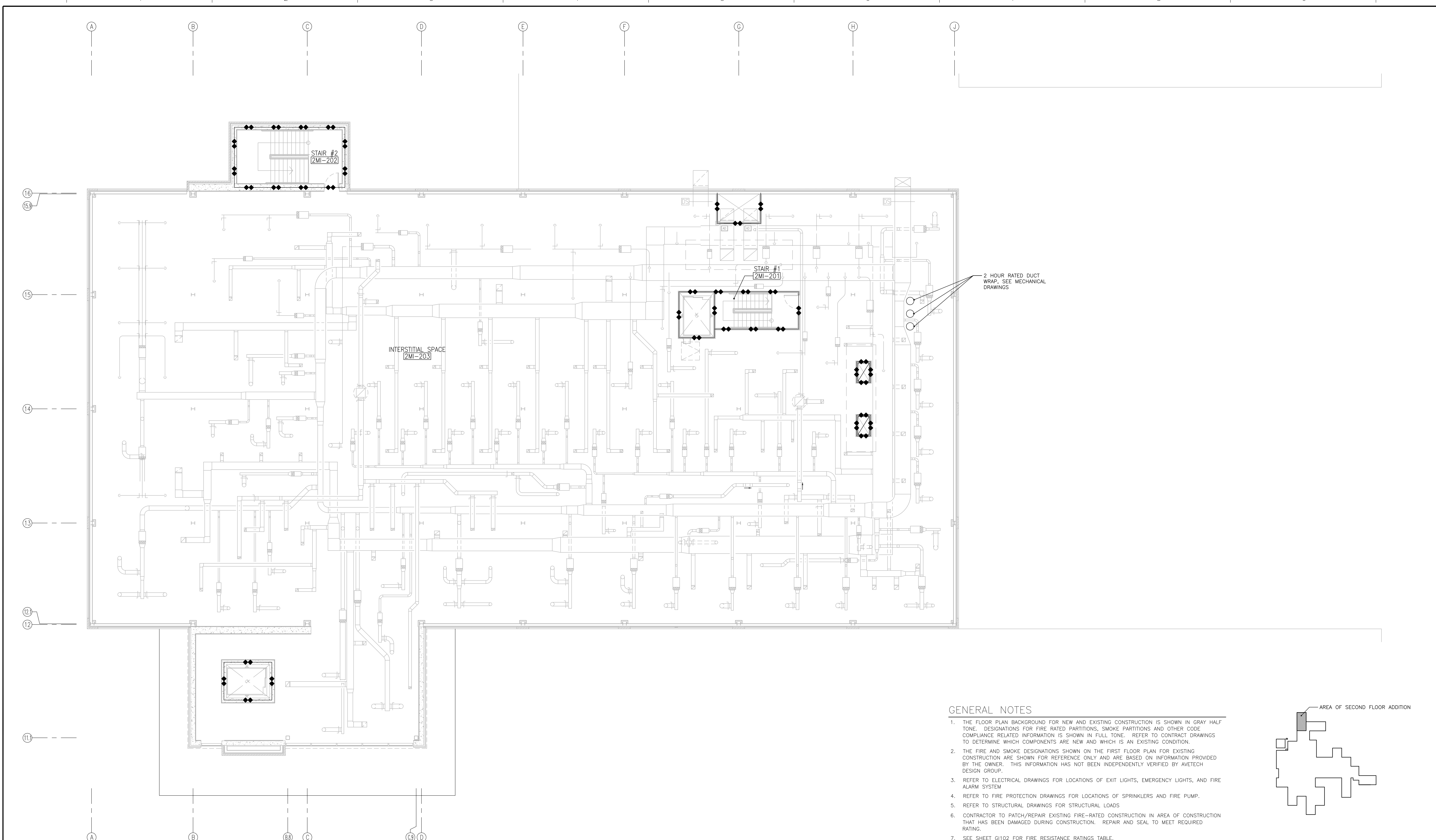
Building Number: **500**

Drawing Number: **G1102**

Office of Construction and Facilities Management

Department of Veterans Affairs

three inches = one foot
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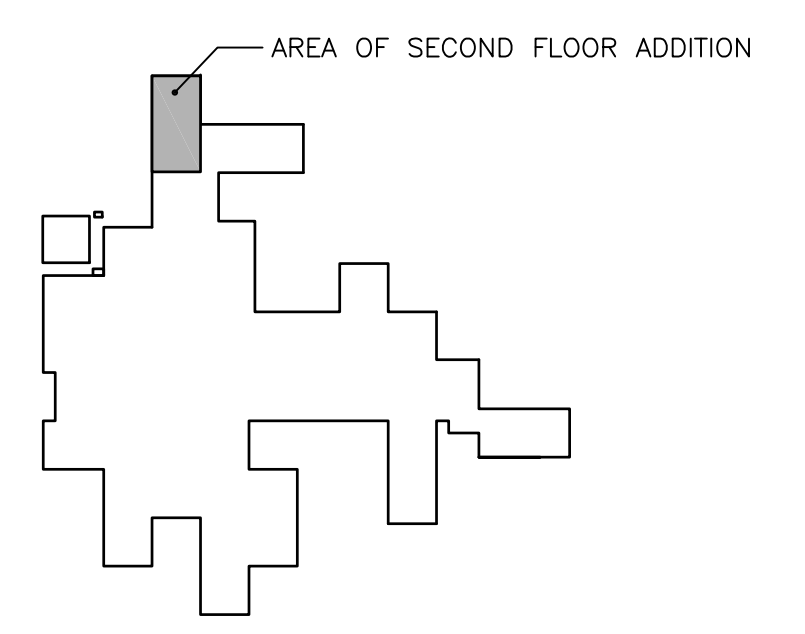


2 HOUR RATED DUCT WRAP. SEE MECHANICAL DRAWINGS

SECOND INTERSTITIAL FLOOR LIFE SAFETY PLAN
 SCALE: 1/8" = 1'-0"

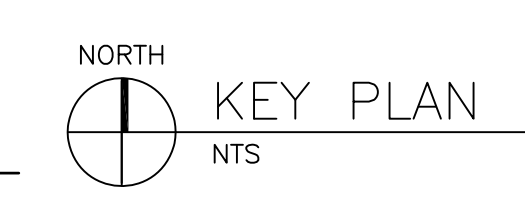
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7. SEE SHEET G102 FOR FIRE RESISTANCE RATINGS TABLE.



LEGEND

- PATH OF TRAVEL
- ◆ 1 HR FIRE RESISTIVE RATED LINE
- ◆ 2 HR FIRE RESISTIVE RATED LINE
- S— SMOKE PARTITION
- ◆ 1 HR RATED SMOKE BARRIER
- ◆ 2 HR RATED SMOKE BARRIER
- FEC FIRE EXTINGUISHER CABINET



FULLY SPRINKLERED

Revisions	Date

CONSULTANT ENGINEER:

CELEBRATING 90 YEARS
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Drawing Title
 SECOND INTERSTITIAL FLOOR LIFE SAFETY PLAN

Approved Project Director

Project Title
 Mental Health Recovery Enhancement Center
 HH McGuire VA Medical Center

Location
 Richmond, VA

Date
 08/24/12 FOR CONSTRUCTION

Checked
 TFS

Drawn
 JMG

Project Number
 310

Building Number
 500

Drawing Number
 G102.A

Office of Construction and Facilities Management