NEW FIRE ALARM SYSTEM NOTES

SCOPE OF WORK AND PROJECT CONDITIONS:

THE PROJECT IS GENERALLY DESCRIBED AS THE INSTALLATION OF AN INTEGRATED FIRE ALARM SYSTEM, SECURITY SYSTEM AND MISCELLANEOUS ELECTRICAL SYSTEMS FOR BUILDINGS NO. 1,2,3,4,5,10,11 AND 12 AT THE NORTHERN VIRGINIA TRAINING CENTER. THE FIRE ALARM AND SECURITY SYSTEMS SHALL CONSIST OF, BUT NOT BE LIMITED TO, THE FOLLOWING WORK ITEMS. EXTERIOR DOORS AND CERTAIN INTERIOR DOORS SHALL HAVE MAGNETIC LOCKS, WITH PROXIMITY CARD OPERATED DEVICES ON EACH SIDE OF THE DOOR FOR SECURE ACCESS CONTROL. THE DOOR CONTROL SYSTEM SHALL ALSO INCLUDE A BATTERY BACKUP FOR THE MAGNETIC DOOR LOCKS TO RIDE THROUGH A POWER OUTAGE UNTIL THE BUILDING GENERATOR IS ABLE TO PICK UP THE BUILDING LOAD. A SECURITY SYSTEM, IN CONJUNCTION WITH THE FIRE ALARM SYSTEM, SHALL CONTROL THE MAGNETIC LOCK OPERATION FOR THE ENTIRE BUILDING. AN INTELLIGENT DETECTION SYSTEM SHALL BE IN EVERY SPACE INDICATED WITHIN EACH BUILDING, USING SMOKE AND HEAT DETECTORS. THE NURSE'S STATION LOCATED IN EACH RESIDENTIAL AREA OF EACH BUILDING AS INDICATED SHALL HAVE A FIRE ALARM SUB PANEL (FASP) WITH ANNUNCIATOR. THE CENTRAL STATION MASTER ANNUNCIATOR IS EXISTING AND IS LOCATED IN THE SECURITY OFFICE OF BUILDING No.1 WHERE INDICATED. EACH EXISTING FIRE ALARM CONTROL PANEL (FACP) EXCEPT IN BUILDING NO.1 AND BUILDING NO.6, SHALL BE REPLACED IN THIS PROJECT. THE FIRE ALARM SYSTEM WIRING SHALL BE REPLACED IN THIS PROJECT. THE SECURITY SYSTEM WIRING SHALL BE NEW. EACH EXISTING SIMPLEX AND SIEMENS/PYROTRONICS FACP SHALL BE KEPT IN SERVICE DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM.

FIRE ALARM SEQUENCE OF OPERATION SHALL BE AS FOLLOWS:

1. EACH BUILDING SHALL BE DIVIDED INTO THE SMOKE COMPARTMENTS, OR ZONES, ON EACH OF THE FLOORS AS SHOWN IN THE FOLLOWING TABLE:

	BUILDING No.:	ZONE No.:	USE:
BASE BID	1-FIRST FLOOR-NORTH	1	ADMINISTRATION
BASE BID	1-FIRST SLOOR-SOUTH	2	RESIDENTIAL
BASE BID	1-SECOND FLOOR-NORTH	3	PHARMACY AND TREATMENT
BASE BID	1-SECOND FLOOR-SOUTH	4	RESIDENTIAL
BASE BID	1-PENTHOUSE	5	NORTH MECHANICAL ROOM
BASE BID	1-PENTHOUSE	6	WEST MECHANICAL ROOM
BASE BID	1-PENTHOUSE	7	SOUTH MECHANICAL ROOM
ADD ALT #3	2-FIRST FLOOR-NORTH	8	WAREHOUSE
ADD ALT #3	2-FIRST FLOOR-SOUTH	9	KITCHEN
ADD ALT #3	2-FIRST FLOOR	10	TRANSFORMER VAULT
ADD ALT #3	2-PENTHOUSE	11	MECHANICAL ROOM
BASE BID	3-FIRST FLOOR-CENTER	12	DINING AND TRAINING ROOMS
BASE BID	3-FIRST FLOOR-NORTH	13	RESIDENTIAL
BASE BID	3-FIRST FLOOR-EAST	14	RESIDENTIAL
BASE BID	3-FIRST FLOOR-WEST	15	RESIDENTIAL
BASE BID	3-PENTHOUSE	16	NORTH MECHANICAL ROOM
BASE BID	3-PENTHOUSE	17	EAST MECHANICAL ROOM
BASE BID	3-PENTHOUSE	18	WEST MECHANICAL ROOM
BASE BID	4-FIRST FLOOR	19	RESIDENTIAL
BASE BID	4-BASEMENT	20	MECHANICAL
BASE BID	4-PENTHOUSE	21	MECHANICAL
BASE BID	5-FIRST FLOOR-NORTH	22	RESIDENTIAL
BASE BID	5-FIRST FLOOR-CENTER	23	ADMINISTRATION
BASE BID	5-FIRST FLOOR-SOUTH	24	RESIDENTIAL
BASE BID	5-PENTHOUSE	25	MECHANICAL
ADD ALT #4	10-FIRST FLOOR	39	MAINTENANCE SHOPS
ADD ALT #2	11-FIRST FLOOR	40	GYMNASIUM
ADD ALT #2	11-BASEMENT	41	MECHANICAL
ADD ALT #1	12-FIRST FLOOR-NORTH	42	ADMINISTRATION
ADD ALT #1	12-FIRST FLOOR-SOUTH	43	TREATMENT
ADD ALT #1	12-BASEMENT	44	MECHANICAL

THE ABOVE AREAS ARE SEPARATED BY EXISTING OR NEW FIRE RESISTANCE RATED WALLS WITH PROTECTIVE DEVICES AND SMOKE DOORS. THE SMOKE COMPARTMENTS THAT SHALL BE DESIGNATED AND ZONED FOR RESIDENTIAL USE ARE INDICATED AS "RESIDENTIAL" IN THE ABOVE TABLE. EACH FLOOR SMOKE COMPARTMENT IS SERVED BY ONE (1) NURSE'S STATION, WHICH IS LOCATED WITHIN THE ZONE WHERE INDICATED

2. THE FIRE ALARM SYSTEM IN EACH OF THE RESIDENTIAL ZONES SHALL OPERATE NON-SEQUENTIALLY AS FOLLOWS:

   a. EACH RESIDENTIAL ZONE UNIT SHALL HAVE A POSITIVE ALARM SEQUENCE FEATURE PER NFPA 72 SECTION 6.8.1.3. THE ATTENDANT SHALL ACKNOWLEDGE THE ALARM SIGNAL AT THE NURSE'S STATION REMOTE FIRE ALARM SUB-PANEL WITH ANNUNCIATOR (FASP) WITHIN 15 SECONDS OF ANNUNCIATION TO INITIATE THE ALARM INVESTIGATION PHASE. IF THE SIGNAL IS NOT ACKNOWLEDGED WITHIN THE 15 SECONDS, THE BUILDING SHALL GO INTO ALARM AND PERFORM THE FUNCTIONS DESCRIBED IN "2.b" BELOW. IF THE SIGNAL IS ACKNOWLEDGED, THE ATTENDANT SHALL HAVE 90 SECONDS TO VERIFY THE CAUSE OF THE ALARM. IF THE SYSTEM IS NOT RESET BY PUSHING THE "ALARM CANCEL" PUSH BUTTON LOCATED AT THE NURSES STATION, OR IF A SECOND DEVICE IS ACTUATED DURING THE INVESTIGATION PHASE, THEN THE BUILDING SHALL GO INTO ALARM AND PERFORM ALL THE FUNCTIONS DESCRIBED IN "2.b" BELOW. IF THE CAUSE OF THE ALARM IS VALID, THE ATTENDANT MAY BYPASS THE POSITIVE ALARM SEQUENCE BY USING THE MANUAL PULL STATION IN THE NURSES' STATION AND PUT THE BUILDING INTO ALARM, WHICH SHALL PERFORM THE FUNCTIONS DESCRIBED IN "2.b" BELOW. THE FIRE ALARM ANNUNCIATOR SHALL BE PART OF THE FIRE ALARM SUB-PANEL (FASP) INDICATED INSIDE THE NURSES STATION.

   b. ACTIVATION OF ANY SMOKE DETECTOR, DUCT MOUNTED SMOKE DETECTOR, HEAT DETECTOR, OR MANUAL PULL STATION IN ANY AREA OF A RESIDENTIAL ZONE SHALL CAUSE THE FOLLOWING:

      1. ACTIVATION OF THE AUDIO/VISUAL ALARM SYSTEM.
      2. RELEASE OF DOOR HOLDERS AT SMOKE/FIRE PARTITIONS.
      3. DE-ENERGIZE ALL MAGNETIC LOCKS IN THE BUILDING.
      4. SHUT DOWN DESIGNATED AIR HANDLING UNITS.
      5. ALERT SECURITY LOCATED IN BUILDING No.1

   c. ACTIVATION OF THE SPRINKLER FLOW SWITCH IN A RESIDENTIAL ZONE SHALL OPERATE NON-SEQUENTIALLY AS FOLLOWS:

      1. ACTIVATION OF THE AUDIO/VISUAL ALARM SYSTEM.
      2. RELEASE OF DOOR HOLDERS AT SMOKE/FIRE PARTITIONS.
      3. DE-ENERGIZE ALL MAGNETIC LOCKS IN THE BUILDING.
      4. SHUT DOWN DESIGNATED AIR HANDLING UNITS.
      5. ALERT SECURITY LOCATED IN BUILDING No.1

3. THE FIRE ALARM SYSTEM IN EACH AREA NOT DESIGNATED AS RESIDENTIAL IS "ADMINISTRATIVE" AND SHALL OPERATE AS FOLLOWS:

   a. ACTIVATION OF ANY SMOKE DETECTOR, DUCT SMOKE DETECTOR, HEAT DETECTOR, OR MANUAL PULL STATION IN AN ADMINISTRATIVE ZONE SHALL CAUSE THE FOLLOWING:
      1. ACTIVATION OF THE AUDIO/VISUAL ALARM SYSTEM.
      2. RELEASE OF DOOR HOLDERS AT SMOKE/FIRE PARTITIONS.
      3. DE-ENERGIZE ALL MAGNETIC LOCKS IN THE BUILDING.
      4. SHUT DOWN DESIGNATED AIR HANDLING UNITS.
      5. ALERT SECURITY LOCATED IN BUILDING No.1

   b. ACTIVATION OF THE SPRINKLER FLOW SWITCH IN ANY AREA IN AN ADMINISTRATIVE ZONE SHALL OPERATE AS FOLLOWS:
      1. ACTIVATION OF THE AUDIO/VISUAL ALARM SYSTEM.
      2. RELEASE OF DOOR HOLDERS AT SMOKE/FIRE PARTITIONS.
      3. DE-ENERGIZE ALL MAGNETIC LOCKS IN THE BUILDING.
      4. SHUT DOWN DESIGNATED AIR HANDLING UNITS.
      5. ALERT SECURITY LOCATED IN BUILDING No.1

4. THE SECURITY SYSTEM SEQUENCE OF OPERATION SHALL BE AS FOLLOWS:

   a. SELECTED EXTERIOR AND INTERIOR DOORS SHALL HAVE MAGNETIC LOCKS INSTALLED, EACH WITH A PROXIMITY CARD OPERATED DEVICE WITH KEYPAD FOR ENTERING A PIN. OPERATION OF THE MAGNETIC LOCK WILL REQUIRE THE USE OF A PROXIMITY CARD TO DE-ENERGIZE THE MAGNETIC LOCK AND OPEN THE DOOR.

   B. ACTIVATION OF THE FIRE ALARM SYSTEM SHALL OVERRIDE THE SECURITY SYSTEM AND DE-ENERGIZE THE MAGNETIC LOCKS AS SPECIFIED IN THE OPERATION SEQUENCE OF ITEMS 2 AND 3 IN THE FIRE ALARM SEQUENCE OF OPERATION ABOVE.

ALL DOORS AND MAGNETIC LOCKS SHALL BE FAIL-SAFE (OPEN) IN THE ABSENCE OF ELECTRICAL POWER FROM EITHER AN OUTSIDE POWER SOURCE (DOMINION VIRGINIA POWER), BATTERY BACK UP, AND/OR EMERGENCY POWER GENERATOR.

ALL EMPLOYEES AND STAFF SHALL CARRY ON THEIR PERSONS KEYS TO MANUALLY OVER-RIDE THE LOCKING DEVICES. IN ADDITION, AT LEAST TWO COPIES OF THESE KEYS SHALL BE READILY AVAILABLE AT EACH OF THE NURSE'S STATION.

5. PROVIDE TWO 1P-20A CIRCUIT BREAKERS IN NEAREST 208Y/120V, 3-POLE, 4-WIRE BRANCH CIRCUIT PANELBOARD. EXTEND 4#12, #12G IN 1/2"C FROM BRANCH CIRCUIT PANELBOARD TO FIRE ALARM CONTROL PANEL AND CONNECT TO SERVE FACP.

EXISTING FIRE ALARM SYSTEM NOTE

THE EXISTING FIRE DETECTION AND ALARM SYSTEM CONTROL PANELS ARE BY SIMPLEX OR SEIMENS/PYROTRONICS. THE EXISTING FIRE DETECTORS, MANUAL PULL STATIONS AND ALARM NOTIFICATION DEVICES SHALL BE DISCONNECTED AND REMOVED, EXCEPT IN BUILDING NO. 6 AND AS SPECIFICILY INDICATED IN BUILDING NO.1.

PROVIDE NEW, AND REPLACE ALL EXISTING FIRE DETECTORS, MANUAL PULL STATIONS, SUPERVISORY ALARM DEVICES, WIRING AND ALARM NOTIFICATION DEVICES INDICATED WITH NEW ADDRESSIBLE DEVICES, WIRING AND AUXILIARY EQUIPMENT NECESSARY TO PROPERLY INTERFACE WITH THE NEW FIRE ALARM CONTROL PANEL SUB PANELS AND ANNUNCIATORS WHERE INDICATED.

CONNECT EXISTING FLOW AND TAMPER SWITCHES LOCATED IN FDC VAULTS AND IN RESIDENT BUILDINGS No. 1,3,4 AND 5 TO NEW BUILDING FACP.

FIRE ALARM & PRE-ACTION SPRINKLER SYSTEM
MATRIX OF OPERATIONS

DEVICE TYPE	SUPERVISORY ALARM TO BUILDING FACP	GENERAL ALARM IN BUILDING
PULL STATION		X
VALVE TAMPER SWITCH	X	
WATER FLOW SWITCH		X
SMOKE DETECTOR		X
DUCT SMOKE DETECTOR		X
HEAT DETECTOR		X

Mar 17 2008-11:57am

REV.	DATE	BY	APP.	DESCRIPTION	REV.	DATE	BY	APP.	DESCRIPTION
1	3/12/08	BWY	CBR	EXIT SIGN AND FIRE ALARM REVS					

COMMONWEALTH OF VIRGINIA
C. B. REYNOLDS
Lic. No. 005701
3/12/08
PROFESSIONAL ENGINEER

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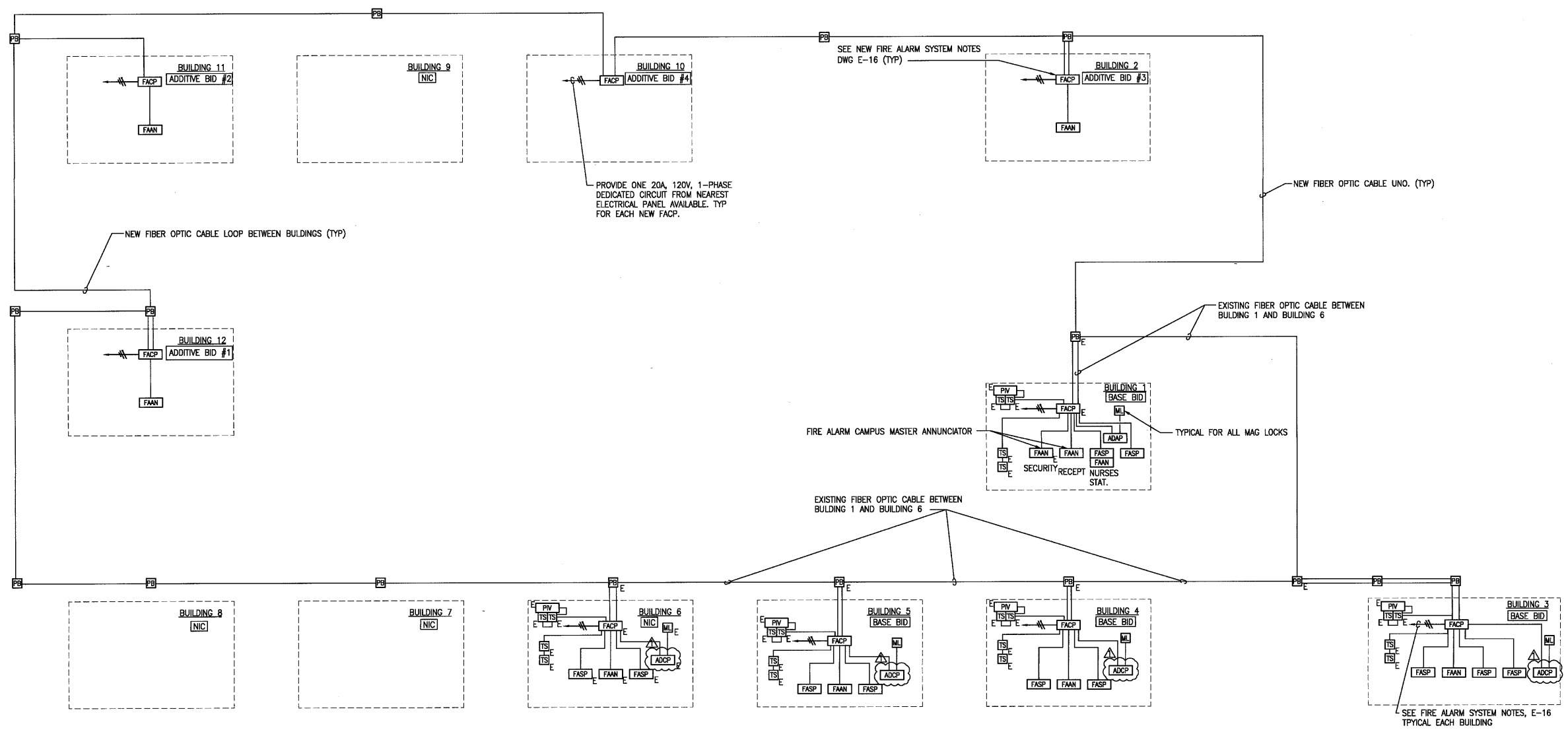
COMMONWEALTH OF VIRGINIA
DEPARTMENT OF
Mental Health, Mental Retardation and Substance Abuse Services

DESIGNED CBR	DRAWN BWY
CHECKED CBR	REVIEWED CBR
COMM. NO. 206114	CTRL. NO.
CADD NO. 206114E16.dwg	
DATE FEBRUARY 22, 2008	

PROJECT: DESIGN FOR LSC REPAIRS
BUILDINGS 1, 2, 3, 4, 5, 10, 11, 12
NORTHERN VA TRAINING CENTER
FAIRFAX, VIRGINIA

TITLE: FIRE ALARM SYSTEM NOTES

DWG. NO. E-16 | SHEET NO. 40 OF 40 | REV.



FIRE ALARM AND SECURITY SYSTEM RISER DIAGRAM

NO SCALE

Mar 17 2008-11:56am

REV.	DATE	BY	APP.	DESCRIPTION	REV.	DATE	BY	APP.	DESCRIPTION
1	3/12/08	BWY	CBR	EXIT SIGN AND FIRE ALARM REVS					

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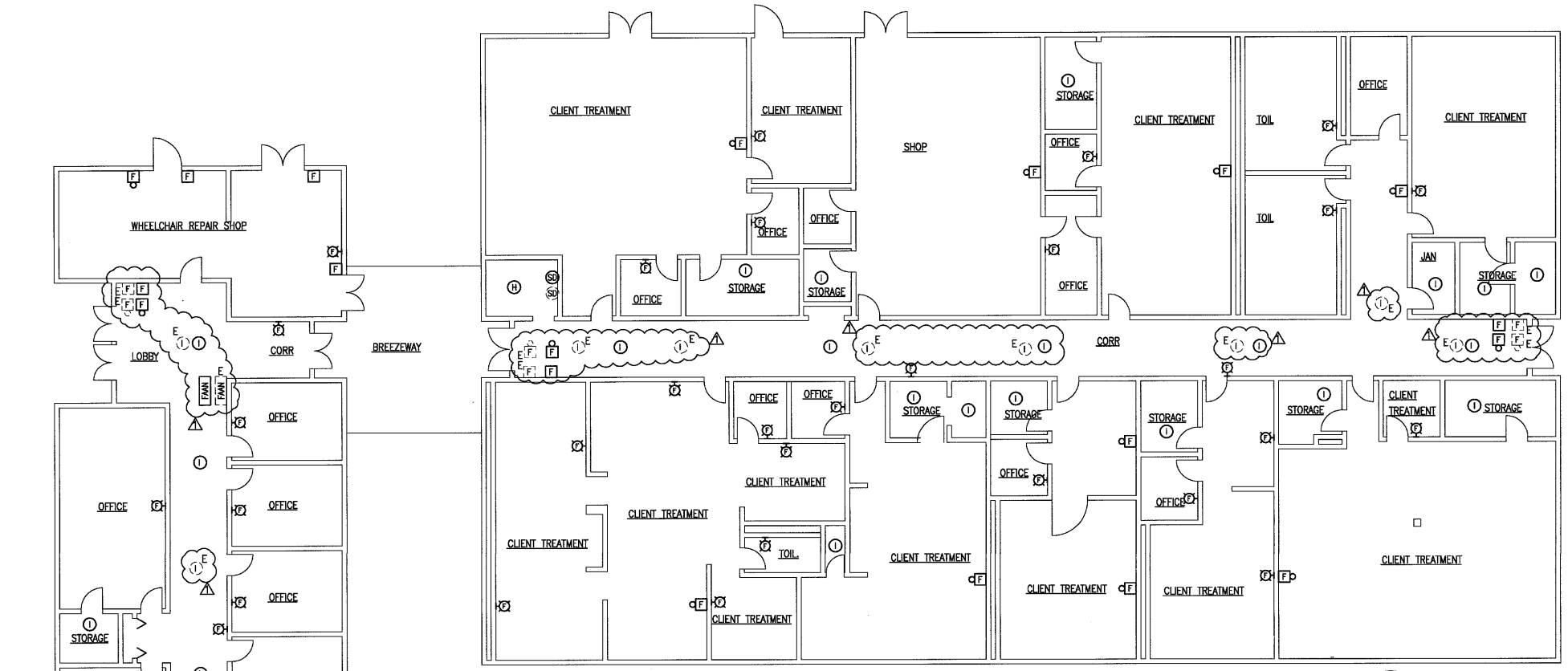
DESIGNED JLC	DRAWN JLC
CHECKED CBR	REVIEWED CBR
COMM. NO. 206114	CTRL. NO.
CADD NO. 206114E15.dwg	
DATE FEBRUARY 22, 2008	

PROJECT: DESIGN FOR LSC REPAIRS
BUILDINGS 1, 2, 3, 4, 5, 10, 11, 12
NORTHERN VA TRAINING CENTER
FAIRFAX, VIRGINIA

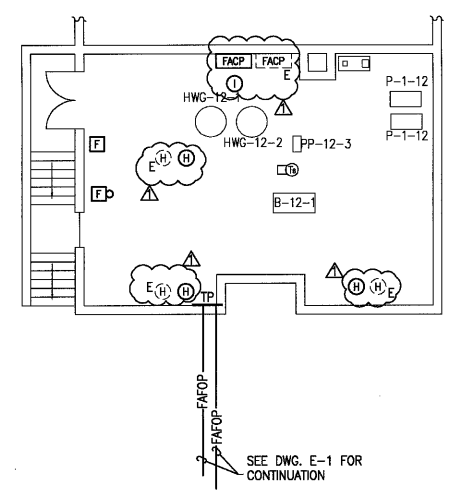
TITLE: RISER DIAGRAM

DWG. NO. E-15 | SHEET NO. 39 OF 40 | REV.



BUILDING No. 12 FIRST FLOOR PLAN

SCALE = 0' 5' 10' 15' 20' 25' 1/8 "=1'-0"



BUILDING No. 12 BASEMENT FLOOR PLAN

SCALE = 0' 5' 10' 15' 20' 25' 1/8 "=1'-0"

Mar 17 2008-11:51am

REV.	DATE	BY	APP.	DESCRIPTION	REV.	DATE	BY	APP.	DESCRIPTION

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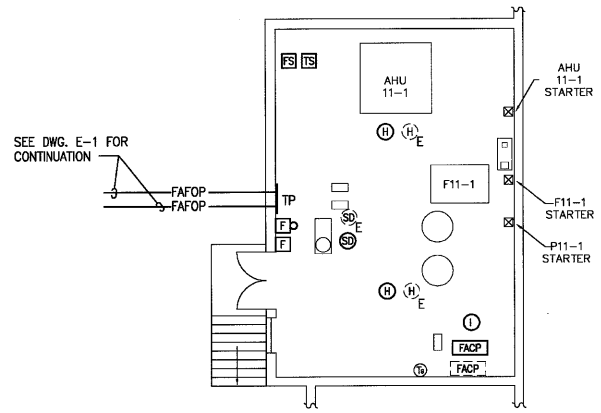
DESIGNED JLC	DRAWN JLC
CHECKED CBR	REVIEWED CBR
COMM. NO. 206114	CTRL. NO.
CADD NO. 206114E14.dwg	
DATE FEBRUARY 22, 2008	

PROJECT: DESIGN FOR LSC REPAIRS
BUILDINGS 1, 2, 3, 4, 5, 10, 11, 12
NORTHERN VA TRAINING CENTER
FAIRFAX, VIRGINIA

TITLE: BUILDING #12
FIRST FLOOR PLAN (ADDITIVE BID #1)

DWG. NO. E-14 | SHEET NO. 38 OF 40 | REV.



BLDG. No. 11 BSMT. FLOOR PLAN

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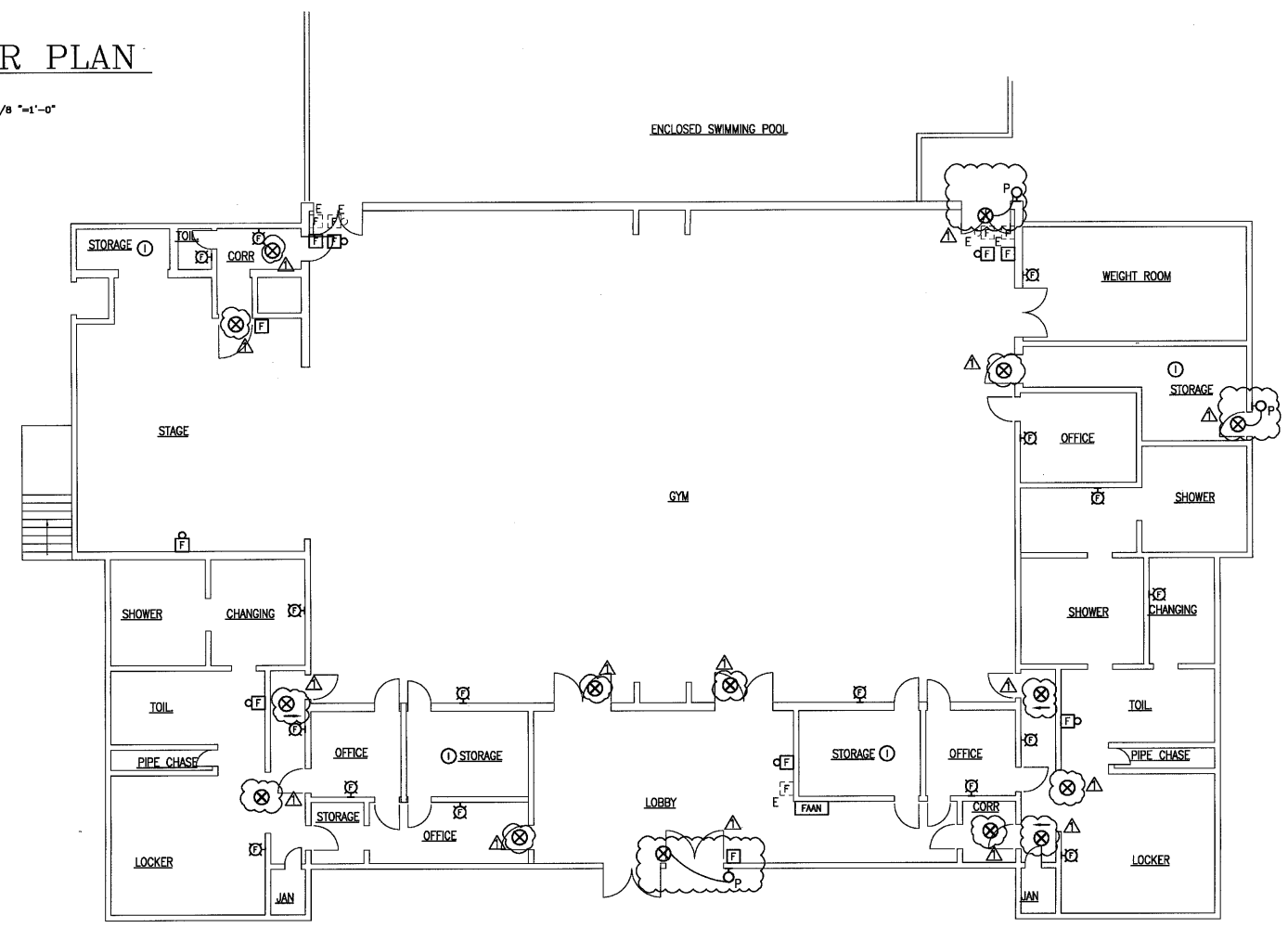

BUILDING No. 11 FIRST FLOOR PLAN

SCALE = 0' 5' 10' 15' 20' 25' 1/8 "=1'-0"

Mar 17 2008-11:38am

REV.	DATE	BY	APP.	DESCRIPTION	REV.	DATE	BY	APP.	DESCRIPTION
1	3/12/08	BWY	CBR	EXIT SIGN AND FIRE ALARM REVS					

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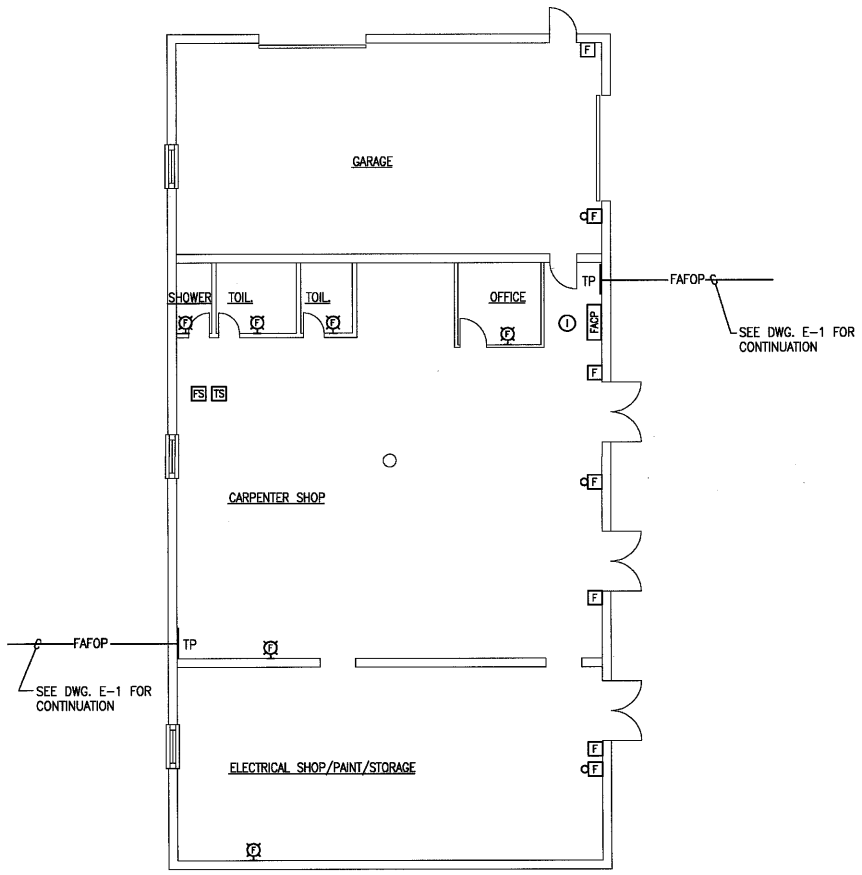
DESIGNED JLC	DRAWN JLC
CHECKED CBR	REVIEWED CBR
COMM. NO. 206114	CTRL. NO.
CADD NO. 206114E13.dwg	
DATE FEBRUARY 22, 2008	

PROJECT: DESIGN FOR LSC REPAIRS
BUILDINGS 1, 2, 3, 4, 5, 10, 11, 12
NORTHERN VA TRAINING CENTER
FAIRFAX, VIRGINIA

TITLE: BUILDING #11
FIRST FLOOR PLAN (ADDITIVE BID #2)

DWG. NO. E-13 | SHEET NO. 37 OF 40 | REV.



BUILDING No. 10 FLOOR PLAN

SCALE = 0' 5' 10' 15' 20' 25' 1/8 "=1'-0"

N

Mar 17 2008-11:33am

REV.	DATE	BY	APP.	DESCRIPTION	REV.	DATE	BY	APP.	DESCRIPTION

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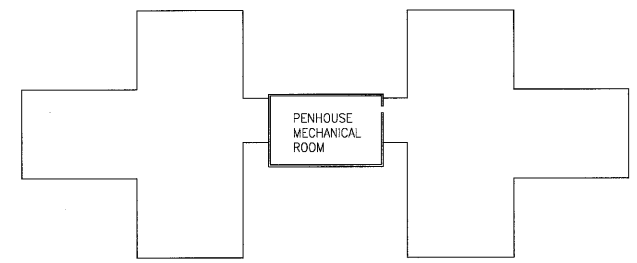
DESIGNED JLC	DRAWN JLC
CHECKED CBR	REVIEWED CBR
COMM. NO. 206114	CTRL. NO.
CADD NO. 206114E12.dwg	
DATE FEBRUARY 22, 2008	

PROJECT: DESIGN FOR LSC REPAIRS
BUILDINGS 1, 2, 3, 4, 5, 10, 11, 12
NORTHERN VA TRAINING CENTER
FAIRFAX, VIRGINIA

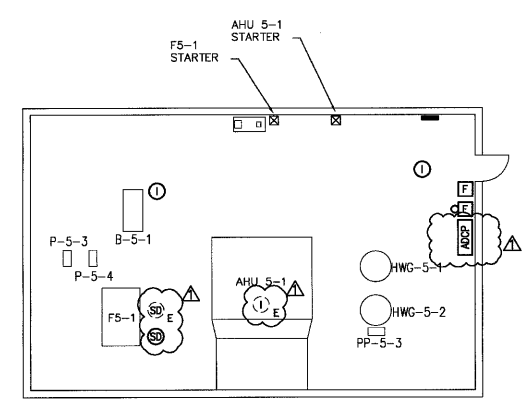
TITLE: BUILDING #10
FIRST FLOOR PLAN (ADDITIVE BID #4)

DWG. NO. E-12 | SHEET NO. 36 OF 40 | REV.



BUILDING No. 5
TYPICAL PENTHOUSE LOCATION

SCALE = 0' 20' 40' 60' 80' 100' 1/32 "=1'-0"



BUILDING No. 5 PENTHOUSE FLOOR PLAN

SCALE = 0' 5' 10' 15' 20' 25' 1/8 "=1'-0"

Mar 17 2008-11:28am

REV.	DATE	BY	APP.	DESCRIPTION	REV.	DATE	BY	APP.	DESCRIPTION
1	3/12/08	BWY	CBR	EXIT SIGN AND FIRE ALARM REVS					

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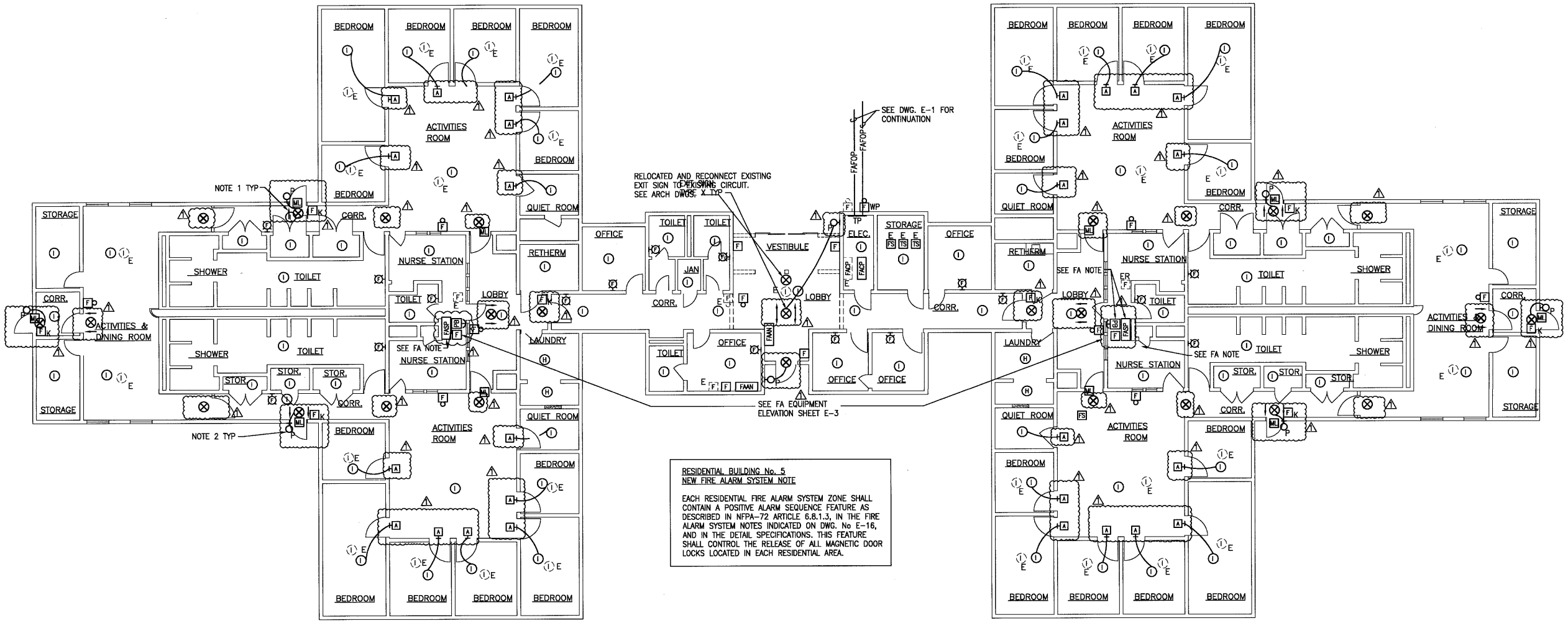
DESIGNED JLC	DRAWN JLC
CHECKED CBR	REVIEWED CBR
COMM. NO. 206114	CTRL. NO.
CADD NO. 206114E11.dwg	
DATE FEBRUARY 22, 2008	

PROJECT: DESIGN FOR LSC REPAIRS
BUILDINGS 1, 2, 3, 4, 5, 10, 11, 12
NORTHERN VA TRAINING CENTER
FAIRFAX, VIRGINIA

TITLE: BUILDINGS #5
PENTHOUSE FLOOR PLAN (BASE BID)

DWG. NO. E-11 | SHEET NO. 35 OF 40 | REV.



RESIDENTIAL BUILDING No. 5
NEW FIRE ALARM SYSTEM NOTE

EACH RESIDENTIAL FIRE ALARM SYSTEM ZONE SHALL CONTAIN A POSITIVE ALARM SEQUENCE FEATURE AS DESCRIBED IN NFPA-72 ARTICLE 6.8.1.3, IN THE FIRE ALARM SYSTEM NOTES INDICATED ON DWG. No E-16, AND IN THE DETAIL SPECIFICATIONS. THIS FEATURE SHALL CONTROL THE RELEASE OF ALL MAGNETIC DOOR LOCKS LOCATED IN EACH RESIDENTIAL AREA.

BUILDING No. 5 PENTHOUSE FLOOR PLAN

SCALE = 0' 5' 10' 15' 20' 25' 1/8 "=1'-0"

ELECTRIC NOTES:

1. CONNECT EXIT SIGN TO NEAREST LIGHTING CIRCUIT AHEAD OF SWITCHING
2. CONNECT DOOR LIGHT TO ADJACENT EXIT SIGN.

REV.	DATE	BY	APP.	DESCRIPTION	REV.	DATE	BY	APP.	DESCRIPTION
1	3/12/08	BWY	CBR	EXIT SIGN AND FIRE ALARM REVS					

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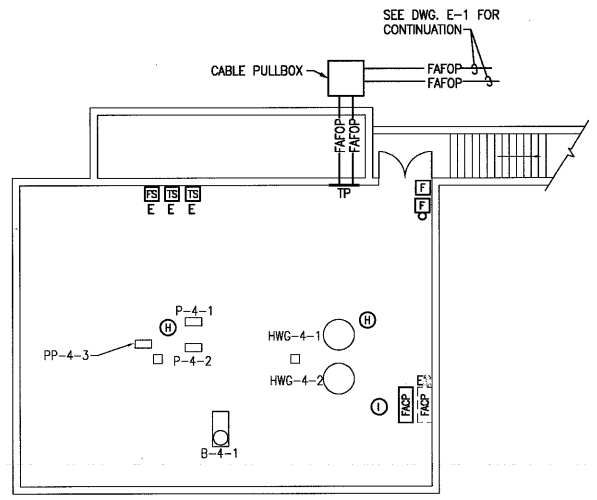
DESIGNED JLC	DRAWN JLC
CHECKED CBR	REVIEWED CBR
COMM. NO. 206114	CTRL. NO.
CADD NO. 206114E10.dwg	
DATE FEBRUARY 22, 2008	

PROJECT: DESIGN FOR LSC REPAIRS
BUILDINGS 1, 2, 3, 4, 5, 10, 11, 12
NORTHERN VA TRAINING CENTER
FAIRFAX, VIRGINIA

TITLE: BUILDING #5
FIRST FLOOR PLAN (BASE BID)

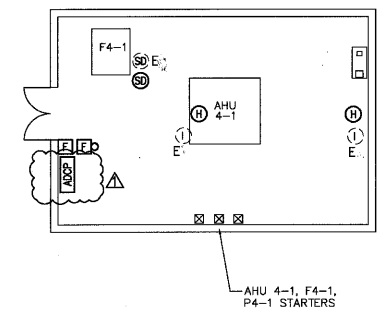
DWG. NO. E-10 | SHEET NO. 34 OF 40 | REV.

Mar 17 2008-12:18pm



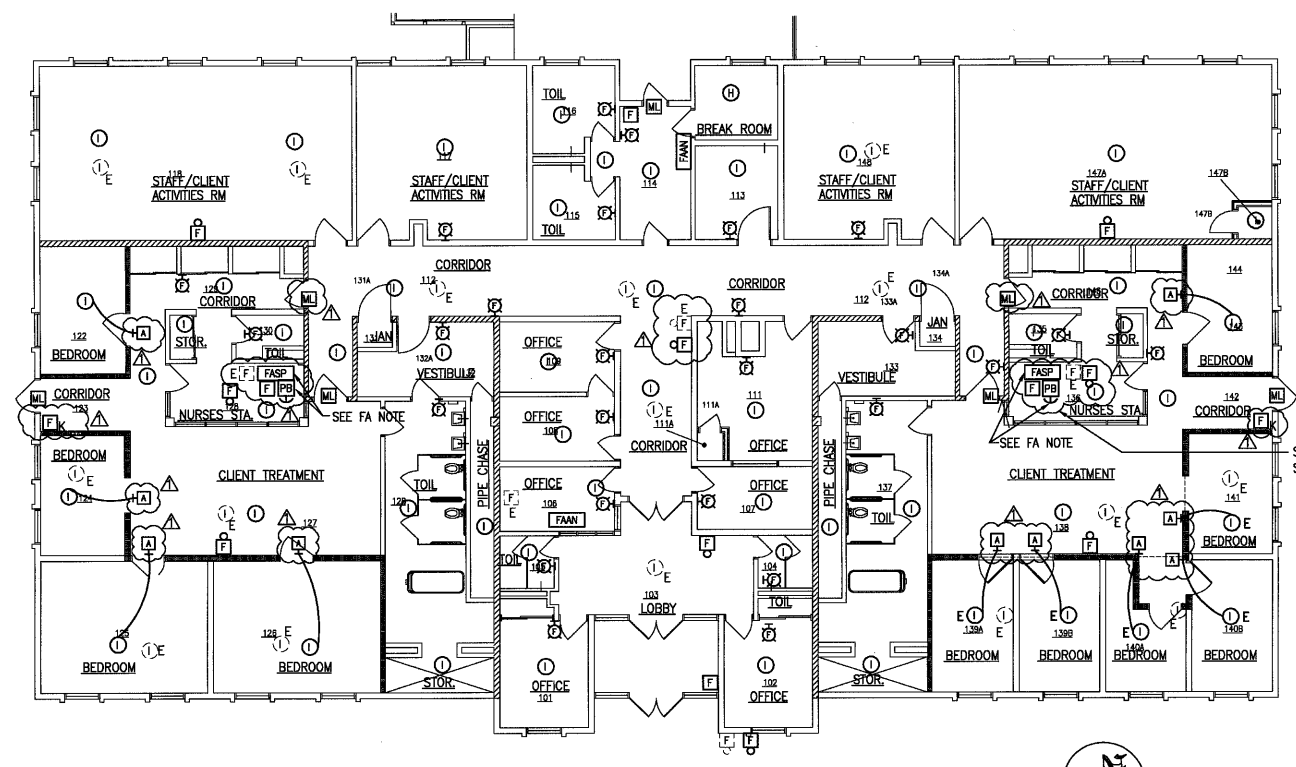
BUILDING No. 4 BASEMENT FLOOR PLAN

SCALE = 0' 5' 10' 15' 20' 25' 1/8 "=1'-0"



BUILDING No. 4 PENTHOUSE PLAN

SCALE = 0' 5' 10' 15' 20' 25' 1/8 "=1'-0"



RESIDENTIAL BUILDING No. 4
NEW FIRE ALARM SYSTEM NOTE

EACH RESIDENTIAL FIRE ALARM SYSTEM ZONE SHALL CONTAIN A POSITIVE ALARM SEQUENCE FEATURE AS DESCRIBED IN NFPA-72 ARTICLE 6.8.1.3, IN THE FIRE ALARM SYSTEM NOTES INDICATED ON DWG. No E-16, AND IN THE DETAIL SPECIFICATIONS. THIS FEATURE SHALL CONTROL THE RELEASE OF ALL MAGNETIC DOOR LOCKS LOCATED IN EACH RESIDENTIAL AREA.

BUILDING No. 4 FIRST FLOOR PLAN

SCALE = 0' 5' 10' 15' 20' 25' 1/8 "=1'-0"

Mar 17 2008-11:16am

REV.	DATE	BY	APP.	DESCRIPTION	REV.	DATE	BY	APP.	DESCRIPTION
1	3/12/08	BWY	CBR	EXIT SIGN AND FIRE ALARM REVS					

COMMONWEALTH OF VIRGINIA
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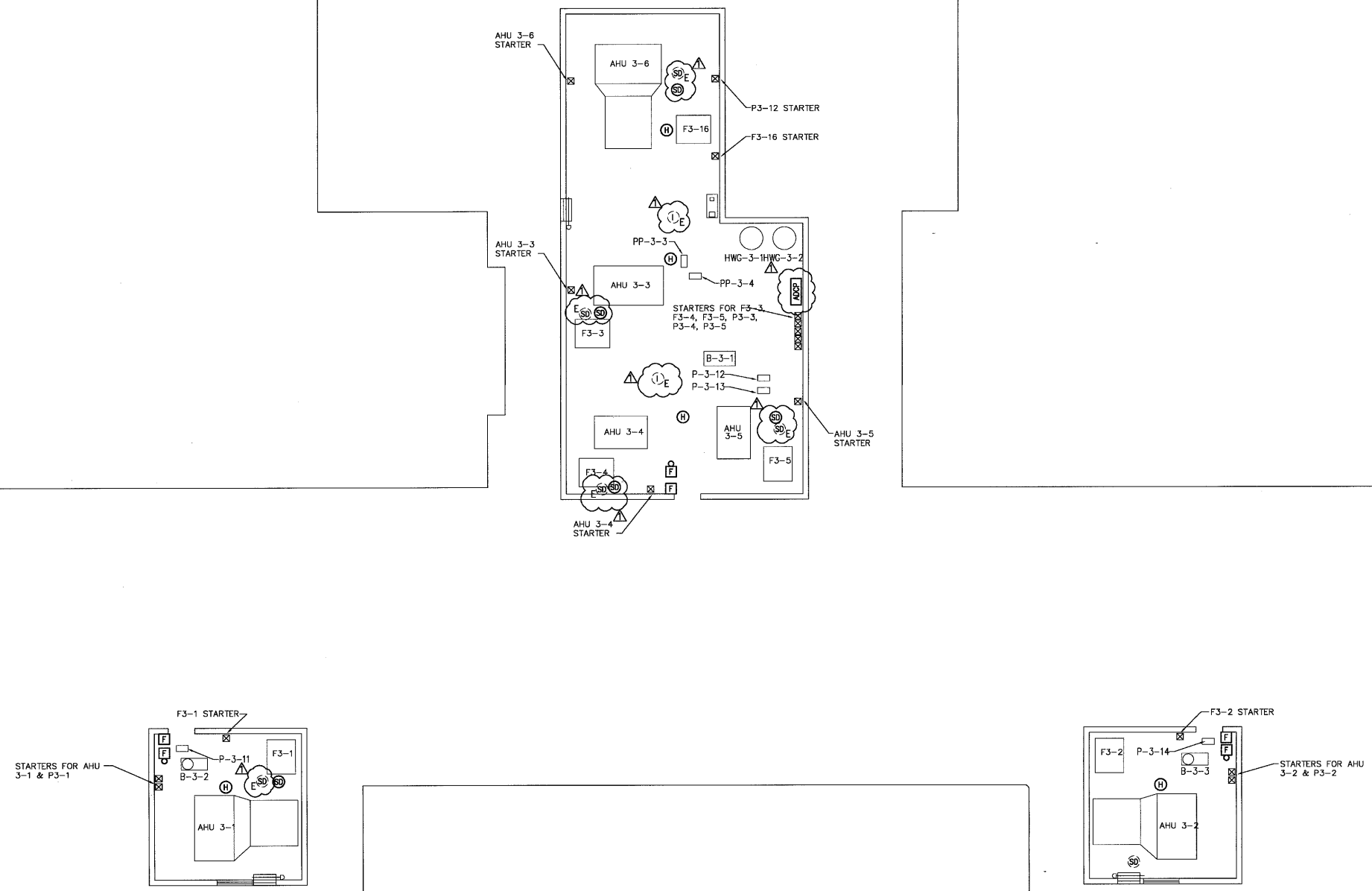
COMMONWEALTH OF VIRGINIA
DEPARTMENT OF
Mental Health, Mental Retardation and Substance Abuse Services

DESIGNED JLC	DRAWN JLC
CHECKED CBR	REVIEWED CBR
COMM. NO. 206114	CTRL. NO.
CADD NO. 206114E09.dwg	
DATE FEBRUARY 22, 2008	

PROJECT: DESIGN FOR LSC REPAIRS
BUILDINGS 1, 2, 3, 4, 5, 10, 11, 12
NORTHERN VA TRAINING CENTER
FAIRFAX, VIRGINIA

TITLE: BUILDING #4 FIRST FLOOR, BASEMENT, AND PENTHOUSE PLANS (BASE BID)

DWG. NO. E-9 | SHEET NO. 33 OF 40 | REV.



BUILDING No. 3 ROOF & PENTHOUSE PLAN

SCALE = 0' 5' 10' 15' 20' 25' 1/8 "=1'-0"

Mar 17 2008-10:49am

REV.	DATE	BY	APP.	DESCRIPTION
1	3/12/08	BWY	CBR	EXIT SIGN AND FIRE ALARM REVS

REV.	DATE	BY	APP.	DESCRIPTION

COMMONWEALTH OF VIRGINIA
C. B. REYNOLDS
Lic. No. 005701
3/12/08
PROFESSIONAL ENGINEER

Wiley & Wilson
Employee-Owned
6606 West Broad Street, Suite 500
Richmond, VA 23230-1717
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COMMONWEALTH OF VIRGINIA
DEPARTMENT OF
Mental Health, Mental Retardation and Substance Abuse Services

DESIGNED JLC	DRAWN JLC
CHECKED CBR	REVIEWED CBR
COMM. NO. 206114	CTRL. NO.
CADD NO. 206114E08.dwg	
DATE FEBRUARY 22, 2008	

PROJECT: DESIGN FOR LSC REPAIRS
BUILDINGS 1, 2, 3, 4, 5, 10, 11, 12
NORTHERN VA TRAINING CENTER
FAIRFAX, VIRGINIA

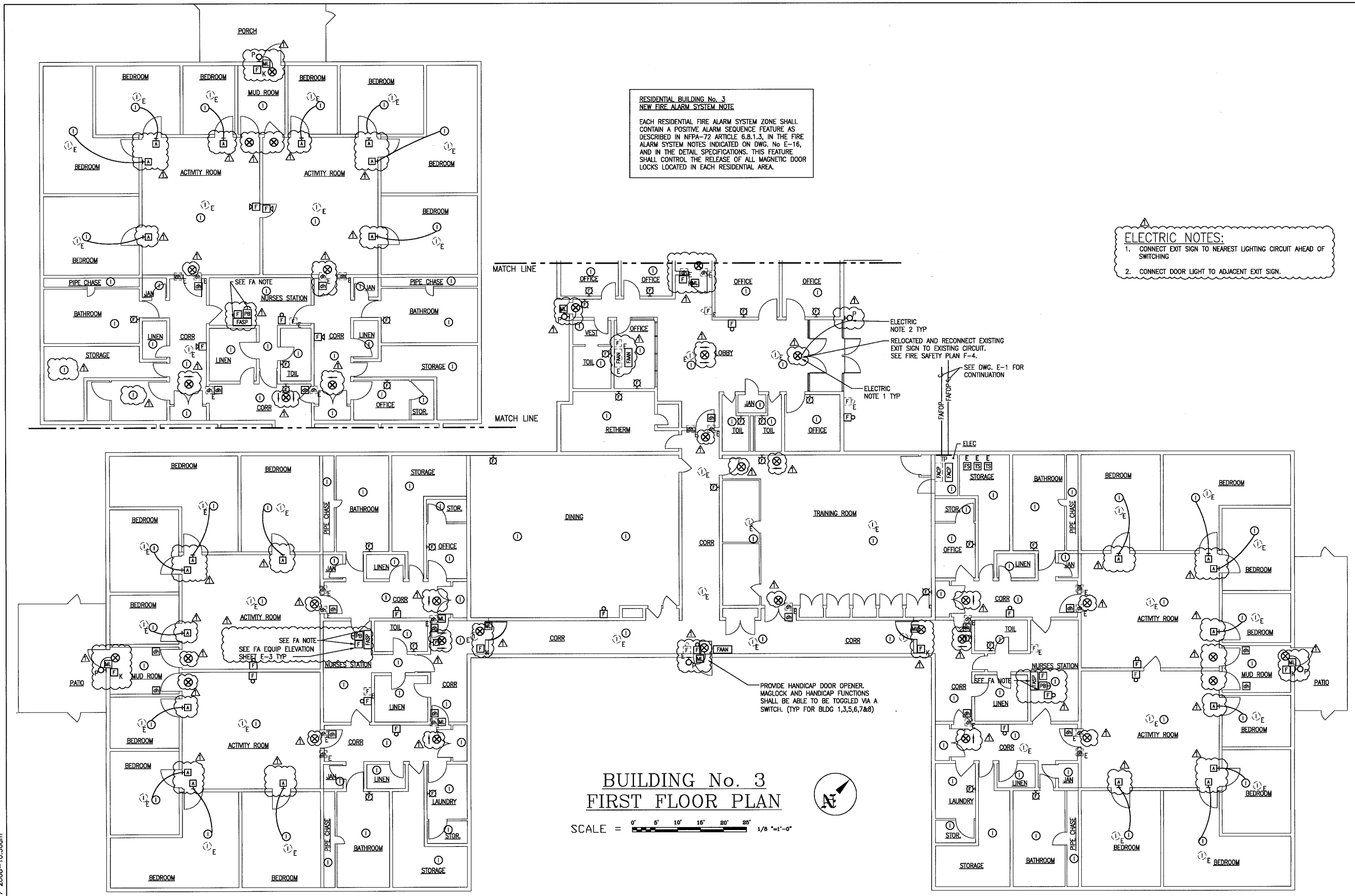
TITLE: BUILDING #3
PENTHOUSE FLOOR PLAN (BASE BID)

DWG. NO. E-8 | SHEET NO. 32 OF 40 | REV.

RESIDENTIAL BUILDING No. 3
NEW FIRE ALARM SYSTEM NOTE

EACH RESIDENTIAL FIRE ALARM SYSTEM ZONE SHALL CONTAIN A POSITIVE ALARM SEQUENCE FEATURE AS DESCRIBED IN NFPA-72 ARTICLE 6.8.1.3, IN THE FIRE ALARM SYSTEM NOTES INDICATED ON DWG. No E-16, AND IN THE DETAIL SPECIFICATIONS. THIS FEATURE SHALL CONTROL THE RELEASE OF ALL MAGNETIC DOOR LOCKS LOCATED IN EACH RESIDENTIAL AREA.

ELECTRIC NOTES:
1. CONNECT EXIT SIGN TO NEAREST LIGHTING CIRCUIT AHEAD OF SWITCHING
2. CONNECT DOOR LIGHT TO ADJACENT EXIT SIGN.



BUILDING No. 3
FIRST FLOOR PLAN

SCALE = 0' 5' 10' 15' 20' 25' 1/8 "=1'-0"

REV.	DATE	BY	APP.	DESCRIPTION	REV.	DATE	BY	APP.	DESCRIPTION
1	3/12/08	BWY	CBR	EXIT SIGN AND FIRE ALARM REVS					

COMMONWEALTH OF VIRGINIA
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COMMONWEALTH OF VIRGINIA
DEPARTMENT OF
Mental Health, Mental Retardation and Substance Abuse Services

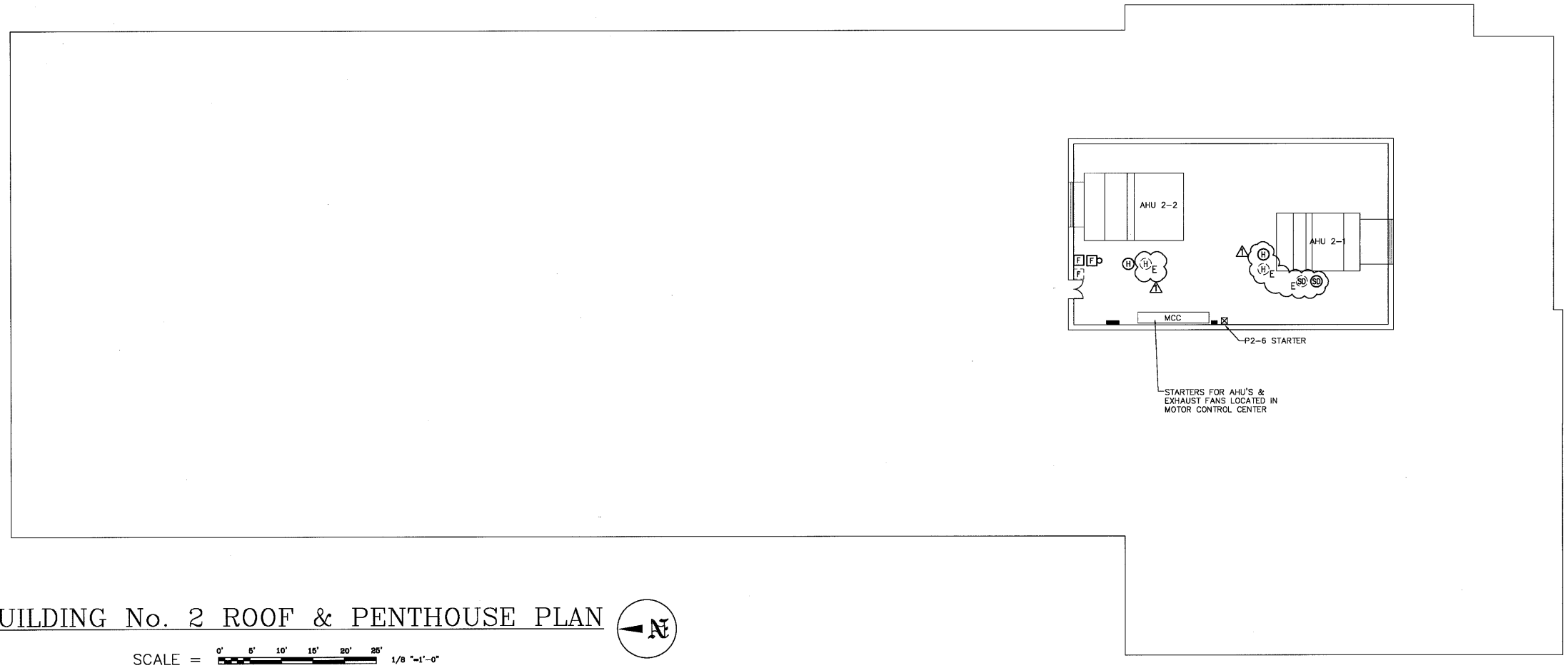
DESIGNED JLC	DRAWN JLC
CHECKED CBR	REVIEWED CBR
COMM. NO. 206114	CTRL. NO.
CADD NO. 206114E07.dwg	
DATE FEBRUARY 22, 2008	

PROJECT: DESIGN FOR LSC REPAIRS
BUILDINGS 1, 2, 3, 4, 5, 10, 11, 12
NORTHERN VA TRAINING CENTER
FAIRFAX, VIRGINIA

TITLE: BUILDING #3
FIRST FLOOR PLAN (BASE BID)

DWG. NO. E-7 | SHEET NO. 31 OF 40 | REV.

Mar 17 2008-10:36am



BUILDING No. 2 ROOF & PENTHOUSE PLAN

SCALE = 0' 5' 10' 15' 20' 25' 1/8 "=1'-0"

Mar 17 2008-10:27am

REV.	DATE	BY	APP.	DESCRIPTION	REV.	DATE	BY	APP.	DESCRIPTION
1	3/12/08	BWY	CBR	EXIT SIGN AND FIRE ALARM REVS					

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DEPARTMENT OF
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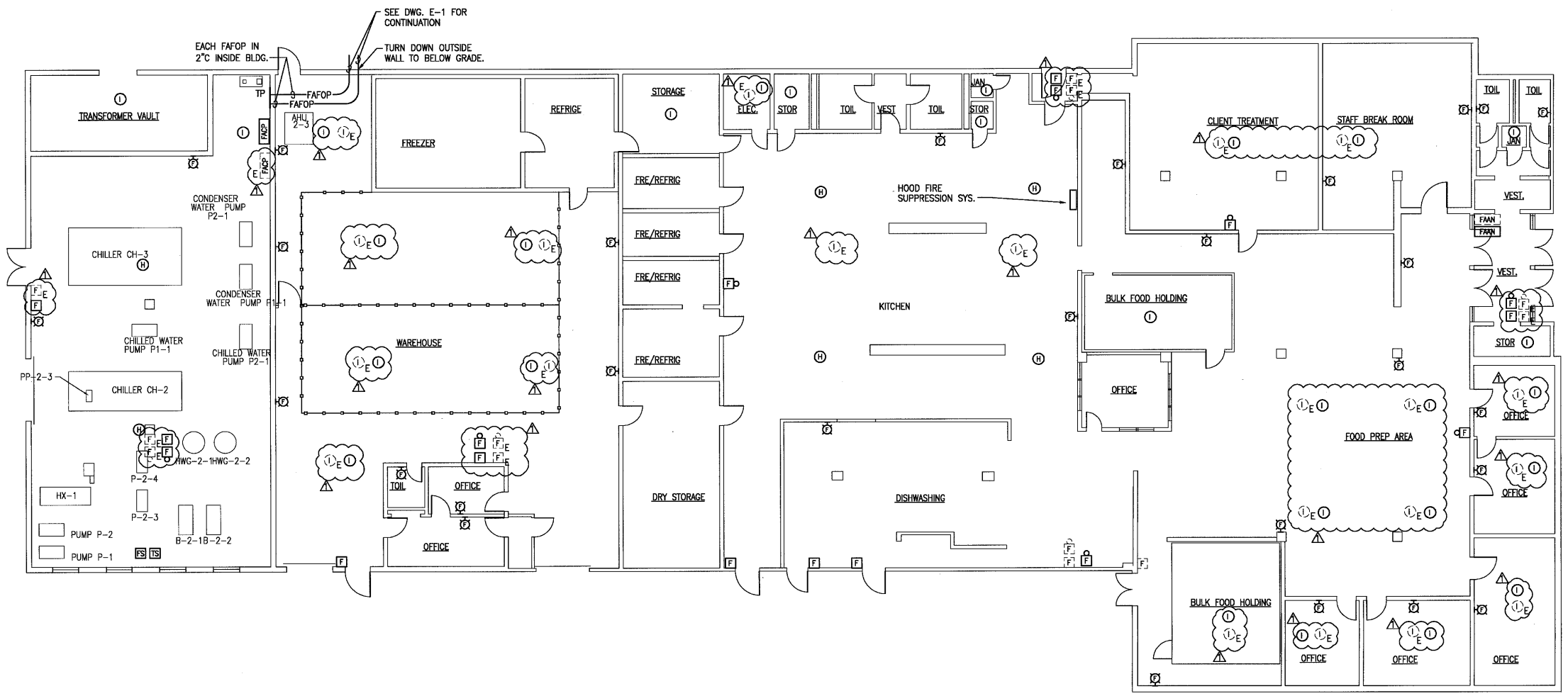
DESIGNED JLC	DRAWN JLC
CHECKED CBR	REVIEWED CBR
COMM. NO. 206114	CTRL. NO.
CADD NO. 206114E06.dwg	
DATE FEBRUARY 22, 2008	

PROJECT: DESIGN FOR LSC REPAIRS
BUILDINGS 1, 2, 3, 4, 5, 10, 11, 12
NORTHERN VA TRAINING CENTER
FAIRFAX, VIRGINIA

TITLE: BUILDING #2
PENTHOUSE FLOOR PLAN (ADDITIVE BID #3)

DWG. NO. E-6 | SHEET NO. 30 OF 40 | REV.



BUILDING No. 2 FLOOR PLAN

SCALE = 0' 5' 10' 15' 20' 25' 1/8 "=1'-0"

N

Mar 17 2008-10:19am

REV.	DATE	BY	APP.	DESCRIPTION	REV.	DATE	BY	APP.	DESCRIPTION
1	3/12/08	BWY	CBR	EXIT SIGN AND FIRE ALARM REVS					

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Lic. No. 005701
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COMMONWEALTH OF VIRGINIA
DEPARTMENT OF
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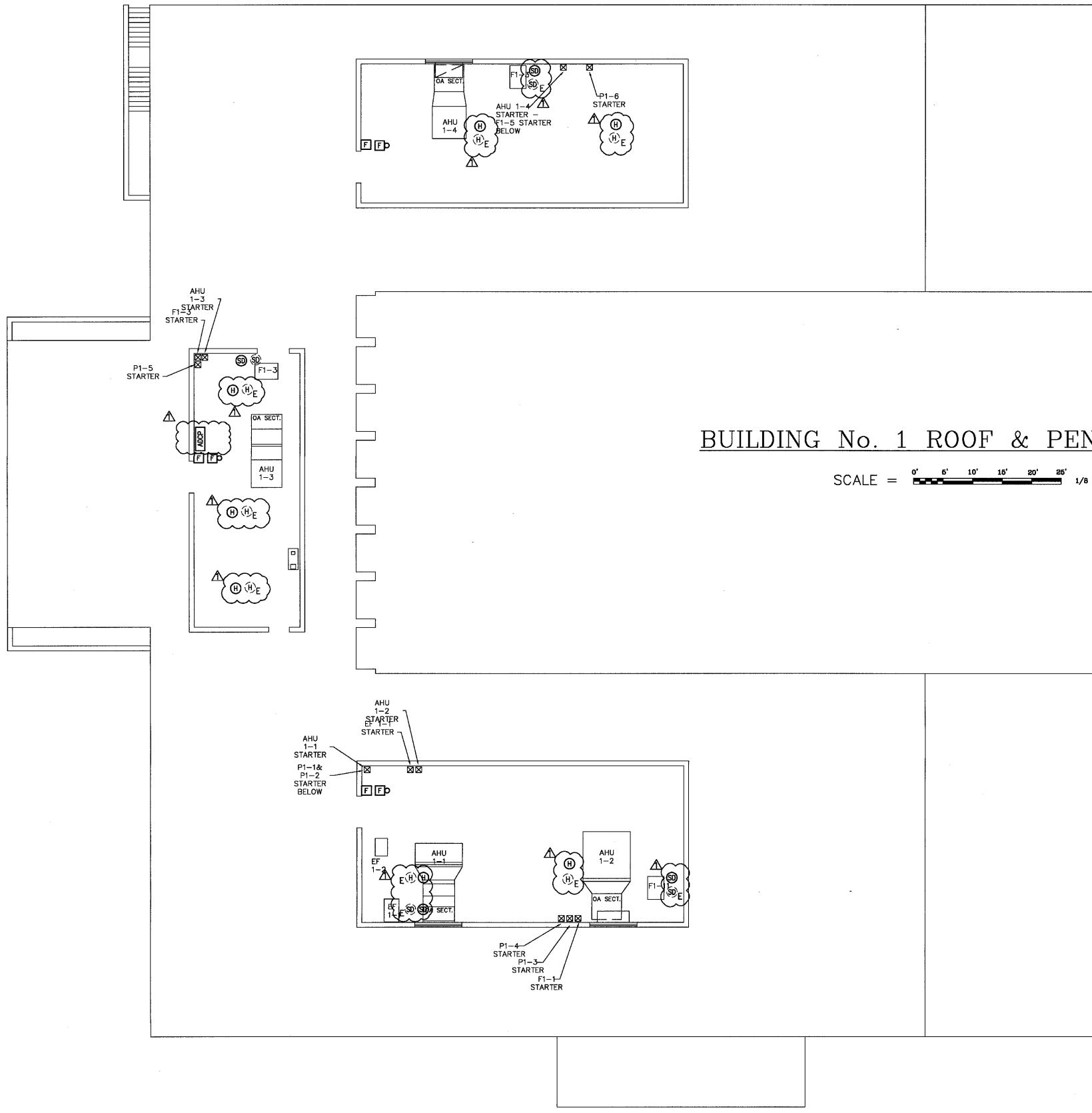
DESIGNED JLC	DRAWN JLC
CHECKED CBR	REVIEWED CBR
COMM. NO. 206114	CTRL. NO.
CADD NO. 206114E05.dwg	
DATE FEBRUARY 22, 2008	

PROJECT: DESIGN FOR LSC REPAIRS
BUILDINGS 1, 2, 3, 4, 5, 10, 11, 12
NORTHERN VA. TRAINING CENTER
FAIRFAX, VIRGINIA

TITLE: BUILDING #2
FIRST FLOOR PLAN (ADDITIVE BID #3)

DWG. NO. E-5 | SHEET NO. 29 OF 40 | REV.



BUILDING No. 1 ROOF & PENTHOUSE PLAN

SCALE = 0' 5' 10' 15' 20' 25' 1/8"=1'-0"

N

Mar 17 2008-10:01am

REV.	DATE	BY	APP.	DESCRIPTION	REV.	DATE	BY	APP.	DESCRIPTION
1	3/12/08	BWY	CBR	EXIT SIGN AND FIRE ALARM REVS					

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Lic. No. 005701
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COMMONWEALTH OF VIRGINIA
DEPARTMENT OF
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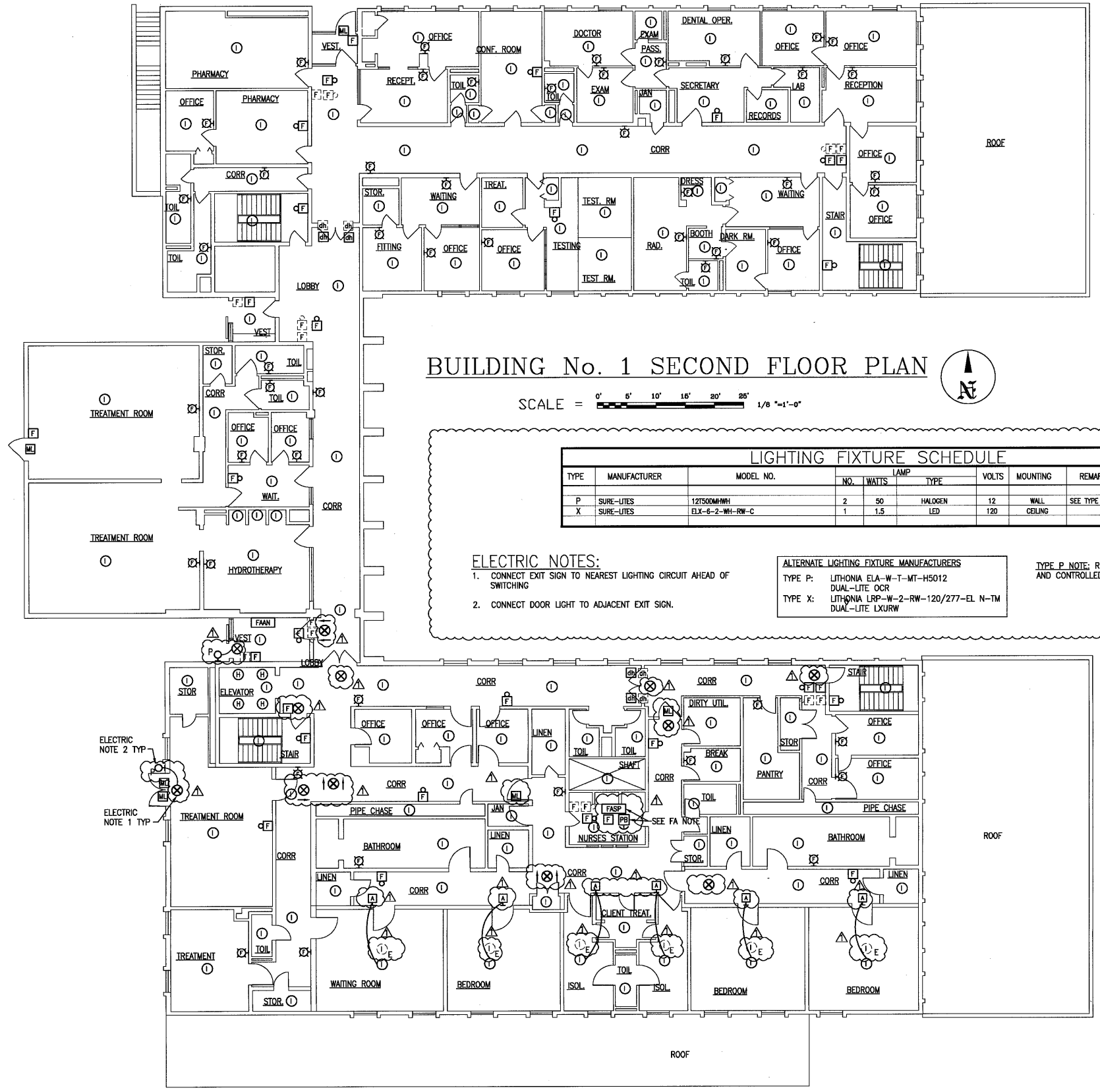
DESIGNED JLC	DRAWN JLC
CHECKED CBR	REVIEWED CBR
COMM. NO. 206114	CTRL. NO.
CADD NO. 206114E04.dwg	
DATE FEBRUARY 22, 2008	

PROJECT: DESIGN FOR LSC REPAIRS
BUILDINGS 1, 2, 3, 4, 5, 10, 11, 12
NORTHERN VA TRAINING CENTER
FAIRFAX, VIRGINIA

TITLE: BUILDING #1
ROOF AND PENTHOUSE FLOOR PLAN (BASE BID)

DWG. NO. E-4 | SHEET NO. 28 OF 40 | REV.



BUILDING No. 1 SECOND FLOOR PLAN

SCALE = 0' 5' 10' 15' 20' 25' 1/8"=1'-0"

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL NO.	LAMP NO.	LAMP WATTS	LAMP TYPE	VOLTS	MOUNTING	REMARKS/NOTES
P	SURE-LITES	12T500MHWH	2	50	HALOGEN	12	WALL	SEE TYPE P NOTE
X	SURE-LITES	ELX-6-2-WH-RW-C	1	1.5	LED	120	CEILING	

ELECTRIC NOTES:

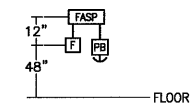
1. CONNECT EXIT SIGN TO NEAREST LIGHTING CIRCUIT AHEAD OF SWITCHING
2. CONNECT DOOR LIGHT TO ADJACENT EXIT SIGN.

ALTERNATE LIGHTING FIXTURE MANUFACTURERS

TYPE P: LITHONIA ELA-W-T-MT-H5012 DUAL-LITE OCR

TYPE X: LITHONIA LRP-W-2-RW-120/277-EL N-TM DUAL-LITE LXURW

TYPE P NOTE: REMOTE FIXTURE TYPE P POWERED AND CONTROLLED BY ADJACENT EXIT SIGN.



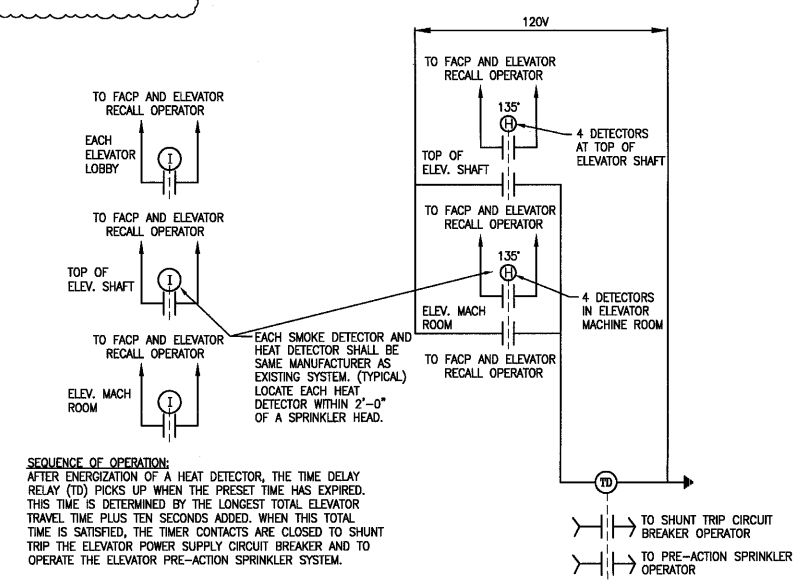
ELEVATION OF NURSE STATION FIRE ALARM DEVICES

NO SCALE

RESIDENTIAL BUILDING No. 1
NEW FIRE ALARM SYSTEM NOTE

EACH RESIDENTIAL FIRE ALARM SYSTEM ZONE SHALL CONTAIN A POSITIVE ALARM SEQUENCE FEATURE AS DESCRIBED IN NFPA-72 ARTICLE 6.8.1.3, IN THE FIRE ALARM SYSTEM NOTES INDICATED ON DWG. No E-16, AND IN THE DETAIL SPECIFICATIONS. THIS FEATURE SHALL CONTROL THE RELEASE OF ALL MAGNETIC DOOR LOCKS LOCATED IN EACH RESIDENTIAL AREA.

ELEVATOR HEAT DETECTOR NOTE:
LOCATE HEAT DETECTOR WITHIN 2'-0" OF EACH EXISTING SPRINKLER HEAD INSIDE THE ELEVATOR MACHINE ROOM AND AT THE TOP OF THE ELEVATOR SHAFT, IN ACCORDANCE WITH NFPA-72.15.4. VARIFY QUANTITY OF DETECTORS REQUIRED ON SITE.



SEQUENCE OF OPERATION:
AFTER ENERGIZATION OF A HEAT DETECTOR, THE TIME DELAY RELAY (TD) PICKS UP WHEN THE PRESET TIME HAS EXPIRED. THIS TIME IS DETERMINED BY THE LONGEST TOTAL ELEVATOR TRAVEL TIME PLUS TEN SECONDS ADDED. WHEN THIS TOTAL TIME IS SATISFIED, THE TIMER CONTACTS ARE CLOSED TO SHUNT TRIP THE ELEVATOR POWER SUPPLY CIRCUIT BREAKER AND TO OPERATE THE ELEVATOR PRE-ACTION SPRINKLER SYSTEM.

ELEVATOR RECALL WIRING DIAGRAM

NO SCALE

Mar 17 2008-9:47am

REV.	DATE	BY	APP.	DESCRIPTION	REV.	DATE	BY	APP.	DESCRIPTION
1	3/12/08	BWY	CBR	EXIT SIGN AND FIRE ALARM REVS					

COMMONWEALTH OF VIRGINIA
C. B. REYNOLDS
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PROFESSIONAL ENGINEER

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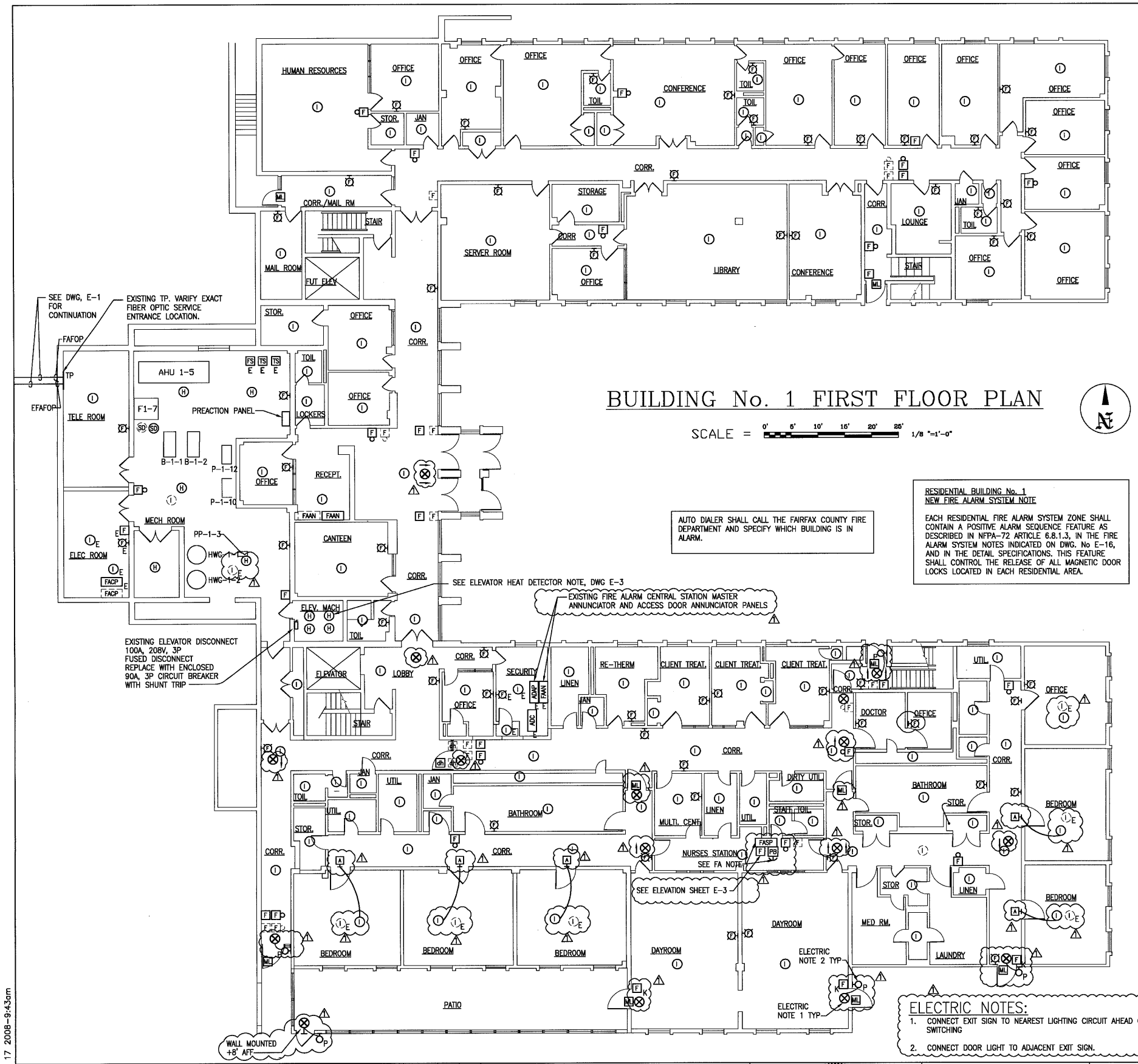
COMMONWEALTH OF VIRGINIA
DEPARTMENT OF
Mental Health, Mental Retardation and Substance Abuse Services

DESIGNED JLC	DRAWN JLC	PROJECT	DESIGN FOR LSC REPAIRS BUILDINGS 1, 2, 3, 4, 5, 10, 11, 12 NORTHERN VA TRAINING CENTER FAIRFAX, VIRGINIA
CHECKED CBR	REVIEWED CBR		
DOMM. NO. 206114	CTRL. NO.	TITLE	BUILDING #1 SECOND FLOOR PLAN (BASE BID)
CADD NO. 206114E03.dwg			
DATE FEBRUARY 22, 2008		DWG. NO. E-3	SHEET NO. 27 OF 40 REV.



BUILDING No. 1 FIRST FLOOR PLAN

SCALE = 0' 5' 10' 15' 20' 25' 1/8"=1'-0"

AUTO DIALER SHALL CALL THE FAIRFAX COUNTY FIRE DEPARTMENT AND SPECIFY WHICH BUILDING IS IN ALARM.

RESIDENTIAL BUILDING No. 1
NEW FIRE ALARM SYSTEM NOTE

EACH RESIDENTIAL FIRE ALARM SYSTEM ZONE SHALL CONTAIN A POSITIVE ALARM SEQUENCE FEATURE AS DESCRIBED IN NFPA-72 ARTICLE 6.8.1.3, IN THE FIRE ALARM SYSTEM NOTES INDICATED ON DWG. No E-16, AND IN THE DETAIL SPECIFICATIONS. THIS FEATURE SHALL CONTROL THE RELEASE OF ALL MAGNETIC DOOR LOCKS LOCATED IN EACH RESIDENTIAL AREA.

ELECTRICAL ABBREVIATIONS

A	AMPERES	M	MAIN OR METER
ADAP	ACCESS DOOR ANNUNCIATOR PANEL.	MB OR MCB	MAIN CIRCUIT BREAKER
AF	AMPERE FRAME OR AMPERE FUSE	MCCB	MOLDED CASE CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MH	MOUNTING HEIGHT
AS	AMPERE SWITCH	ML	MAGNETIC LOCK
AT	AMPERE TRIP	MLO	MAIN LUGS ONLY
ATS	AUTOMATIC TRANSFER SWITCH	MSB	MAIN SWITCHBOARD
AWG	AMERICAN WIRE GAUGE	MTD	MOUNTED
C	CONDUIT	N	NEUTRAL OR NORMAL
CKT	CIRCUIT	NAC	NOTIFICATION APPLIANCE CIRCUIT
CKT BKR OR CB	CIRCUIT BREAKER	NEC	NATIONAL ELECTRICAL CODE
CMU	CONCRETE MASONRY UNIT	NF	NON-FUSED
DISC SW	DISCONNECT SWITCH	NIC	NOT IN CONTRACT
DN	DOWN	P	POLE OR PRIMARY
EM	EMERGENCY	PB	PULL BOX
EA	EACH	PH	PHASE
E OR EXIST.	EXISTING	PIN	PERSONAL IDENTIFICATION NUMBER
ENCL	ENCLOSURE	PIV	POST INDICATING VALVE
EX	EXISTING TO BE REPLACED IN SAME LOCATION	PNL	PANEL
F	FAHRENHEIT	PVC	POLYVINYL CLORIDE
FA	FIRE ALARM	R	RAINTIGHT
FAAN	FIRE ALARM ANNUNCIATE PANEL.	S	SECONDARY
FACP	FIRE ALARM CONTROL PANEL.	SLC	SIGNALING LINE CIRCUITS
FASP	FIRE ALARM-SUB PANEL.	SW	SWITCH
FDC	FIRE DEPARTMENT CONNECTION	SYM	SYMMETRICAL
FDR	FEEDER	TP	TELECOMMUNICATIONS PANEL
FLA	FULL LOAD AMPERES	TS	TAMPER SWITCH
FS	FLOW SWITCH	TYP	TYPICAL
FUS	FUSE	UNO	UNLESS NOTED OTHERWISE
G	GROUND	V	VOLTS
JB	JUNCTION BOX	W	WIRE OR WATT
KV	KILOVOLTS	WP	WEATHERPROOF
KVA	KILOVOLT AMPERES		
KW	KILOWATTS		
L	LOAD		

SECURITY SYSTEM LEGEND

- ML — MAGNETIC LOCK WITH PROXIMITY CARD READER AT BOTH SIDES OF DOOR JAMB, UNO. CARD STATION MH: +4'-0" AFF.
- ADAP E — EXISTING ACCESS DOOR ANNUNCITOR PANEL IN BUILDING 1.
- ADCP — ACCESS DOOR CONTROL PANEL
- ADC E — EXISTING ACCESS DOOR COMPUTER/PRINTER

FLOOR PLAN LEGEND

- CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALL.
- CONDUIT RUN CONCEALED IN OR BELOW FLOOR SLAB OR BELOW GRADE, AS APPLICABLE
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- ELECTRICAL HOMERUN, HASH MARKS INDICATE NUMBER OF CONDUCTORS IN CONDUIT. EQUALS GROUND CONDUCTOR
- TP — 4'-0"W X 8'-0"H X 3/4" FIRE TREATED PLYWOOD TELECOMMUNICATIONS PANEL WITH FIBER OPTIC TERMINAL BOX.
- CEILING MOUNTED EXIT SIGN TYPE X WITH 90 MINUTE EMERGENCY BATTERY PACK. PROVIDE ARROWS WHERE INDICATED. CONNECT AHEAD OF SWITCH.
- OUTDOOR ENCLOSED WALL MOUNTED LIGHTING FIXTURE TYPE P POWERED BY ADJACENT EXIT SIGN. MOUNTING HEIGHT: +8'-0" AFF.

FIRE ALARM SYSTEM LEGEND

- FIRE ALARM VISUAL DEVICE
- F K — MANUAL FIRE ALARM PULL STATION, KEY OPERATED
- F — MANUAL FIRE ALARM PULL STATION, OPERATED WITHOUT KEY
- F WP — FIRE ALARM AUDIO VISUAL DEVICE. WP INDICATES WEATHERPROOF ENCLOSURE.
- dh — MAGNETIC DOOR HOLDER
- dh E FACP E F E ① E F E SD E H E — EXISTING MAGNETIC DOOR HOLDER, FIRE ALARM CONTROL PANEL, HEAT DETECTOR, DUCT SMOKE DETECTOR, PULL STATION, OR AUDIO VISUAL DEVICE TO BE DISCONNECTED AND REMOVED
- ① E — SMOKE DETECTOR. "E" INDICATES EXISTING DEVICE TO BE RECONNECTED TO NEW FACP
- H — 130°F HEAT DETECTOR. SEE ELEVATOR NOTE DWG E-3.
- TS E — TAMPER SWITCH "E" INDICATES EXISTING DEVICE TO BE RECONNECTED TO NEW FACP
- FS E — SPRINKLER WATER FLOW SWITCH. "E" INDICATES EXISTING DEVICE TO BE RECONNECTED TO NEW FACP
- PIV — EXISTING POST INDICATOR VALVE
- FACP — FIRE ALARM CONTROL PANEL
- FAAN — FIRE ALARM ANNUNCIATOR PANEL
- FASP — FIRE ALARM SUB-PANEL WITH ANNUNCIATOR
- SD — DUCT SMOKE DETECTOR
- PB — POSITIVE ALARM SEQUENCE PUSHBUTTON TO CANCEL FIRE ALARM FOLLOWING INVESTIGATION, PROVIDE BLUE OUTLET COVER WITH RED MUSHROOM HANDLE. LABEL BOX "ALARM CANCEL" IN WHITE LETTERS.
- FDC — EXISTING IN GROUND FIRE DEPARTMENT BUILDING SPRINKLER SYSTEM CONNECTION VAULT.
- SMOKE OR HEAT DETECTOR CONTACT FOR ELEVATOR RECALL SYSTEM.
- AH — BEDROOM SMOKE DETECTOR OPERATION REMOTE LIGHT ABOVE DOOR LINTEL

ELECTRIC NOTES:

1. CONNECT EXIT SIGN TO NEAREST LIGHTING CIRCUIT AHEAD OF SWITCHING
2. CONNECT DOOR LIGHT TO ADJACENT EXIT SIGN.

REV.	DATE	BY	APP.	DESCRIPTION	REV.	DATE	BY	APP.	DESCRIPTION
1	3/12/08	BWY	CBR	EXIT SIGN AND FIRE ALARM REVS					

COMMONWEALTH OF VIRGINIA
C. B. REYNOLDS
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COMMONWEALTH OF VIRGINIA
DEPARTMENT OF
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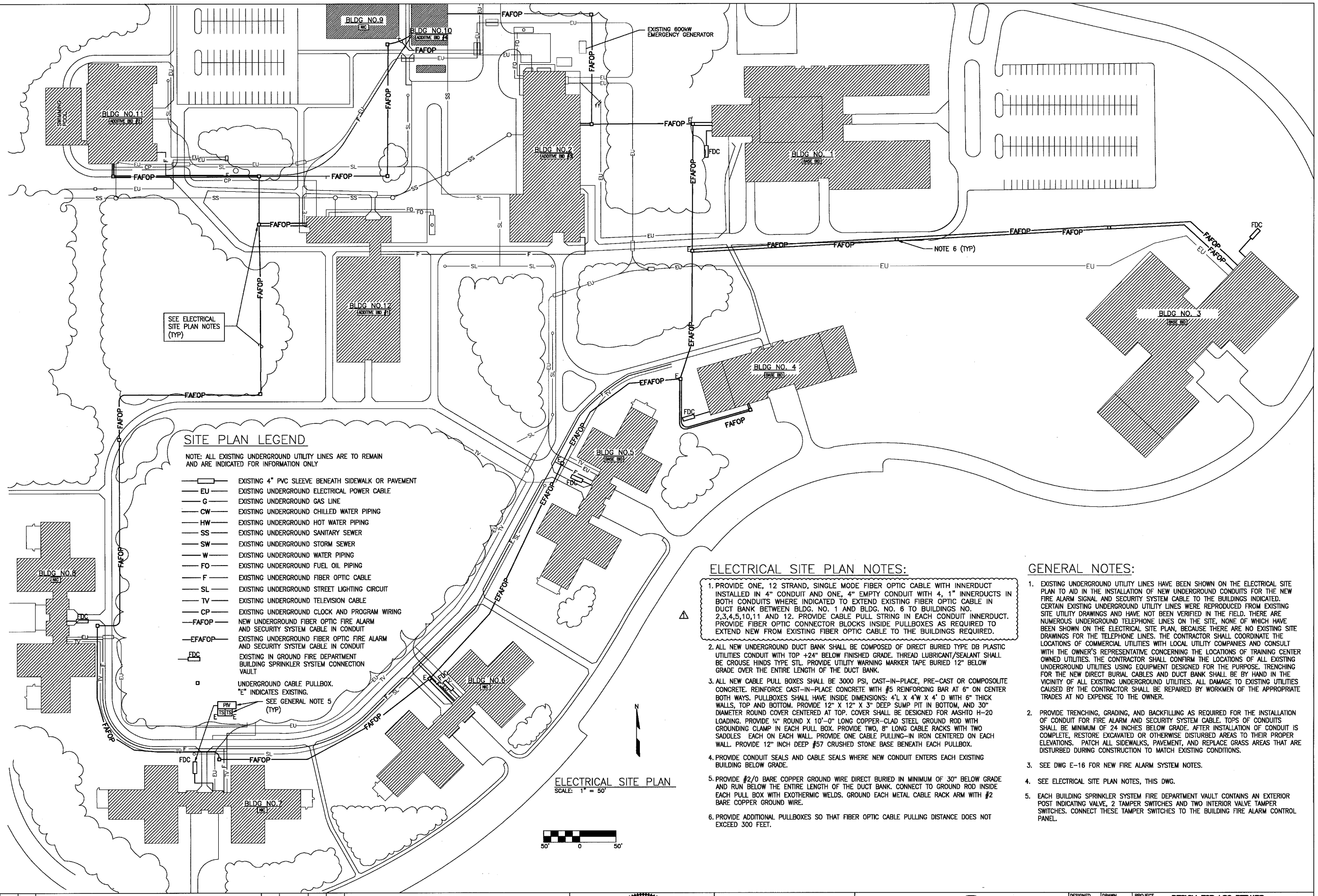
DESIGNED JLC	DRAWN JLC
CHECKED CBR	REVIEWED CBR
COMM. NO. 206114	CTRL. NO.
CADD NO. 206114E02.dwg	
DATE FEBRUARY 22, 2008	

PROJECT: DESIGN FOR LSC REPAIRS
BUILDINGS 1, 2, 3, 4, 5, 10, 11, 12
NORTHERN VA TRAINING CENTER
FAIRFAX, VIRGINIA

TITLE: BUILDING #1
FIRST FLOOR PLAN (BASE BID)

DWG. NO. E-2 | SHEET NO. 26 OF 40 | REV.

Mar 17 2008-9:43am



SITE PLAN LEGEND

NOTE: ALL EXISTING UNDERGROUND UTILITY LINES ARE TO REMAIN AND ARE INDICATED FOR INFORMATION ONLY

- EXISTING 4" PVC SLEEVE BENEATH SIDEWALK OR PAVEMENT
- EU — EXISTING UNDERGROUND ELECTRICAL POWER CABLE
- G — EXISTING UNDERGROUND GAS LINE
- CW — EXISTING UNDERGROUND CHILLED WATER PIPING
- HW — EXISTING UNDERGROUND HOT WATER PIPING
- SS — EXISTING UNDERGROUND SANITARY SEWER
- SW — EXISTING UNDERGROUND STORM SEWER
- W — EXISTING UNDERGROUND WATER PIPING
- FO — EXISTING UNDERGROUND FUEL OIL PIPING
- F — EXISTING UNDERGROUND FIBER OPTIC CABLE
- SL — EXISTING UNDERGROUND STREET LIGHTING CIRCUIT
- TV — EXISTING UNDERGROUND TELEVISION CABLE
- CP — EXISTING UNDERGROUND CLOCK AND PROGRAM WIRING
- FAFOP — NEW UNDERGROUND FIBER OPTIC FIRE ALARM AND SECURITY SYSTEM CABLE IN CONDUIT
- EFAFOP — EXISTING UNDERGROUND FIBER OPTIC FIRE ALARM AND SECURITY SYSTEM CABLE IN CONDUIT
- FDC — EXISTING IN GROUND FIRE DEPARTMENT BUILDING SPRINKLER SYSTEM CONNECTION VAULT
- UNDERGROUND CABLE PULLBOX. "E" INDICATES EXISTING.

ELECTRICAL SITE PLAN

SCALE: 1" = 50'

ELECTRICAL SITE PLAN NOTES:

1. PROVIDE ONE, 12 STRAND, SINGLE MODE FIBER OPTIC CABLE WITH INNERDUCT INSTALLED IN 4" CONDUIT AND ONE, 4" EMPTY CONDUIT WITH 4, 1" INNERDUCTS IN BOTH CONDUITS WHERE INDICATED TO EXTEND EXISTING FIBER OPTIC CABLE IN DUCT BANK BETWEEN BLDG. NO. 1 AND BLDG. NO. 6 TO BUILDINGS NO. 2,3,4,5,10,11 AND 12. PROVIDE CABLE PULL STRING IN EACH CONDUIT INNERDUCT. PROVIDE FIBER OPTIC CONNECTOR BLOCKS INSIDE PULLBOXES AS REQUIRED TO EXTEND NEW FROM EXISTING FIBER OPTIC CABLE TO THE BUILDINGS REQUIRED.
2. ALL NEW UNDERGROUND DUCT BANK SHALL BE COMPOSED OF DIRECT BURIED TYPE DB PLASTIC UTILITIES CONDUIT WITH TOP +24" BELOW FINISHED GRADE. THREAD LUBRICANT/SEALANT SHALL BE CROUSE HINDS TYPE STL. PROVIDE UTILITY WARNING MARKER TAPE BURIED 12" BELOW GRADE OVER THE ENTIRE LENGTH OF THE DUCT BANK.
3. ALL NEW CABLE PULL BOXES SHALL BE 3000 PSI, CAST-IN-PLACE, PRE-CAST OR COMPOSOLITE CONCRETE. REINFORCE CAST-IN-PLACE CONCRETE WITH #5 REINFORCING BAR AT 6" ON CENTER BOTH WAYS. PULLBOXES SHALL HAVE INSIDE DIMENSIONS: 4'L X 4'W X 4' D WITH 6" THICK WALLS, TOP AND BOTTOM. PROVIDE 12" X 12" X 3" DEEP SUMP PIT IN BOTTOM, AND 30" DIAMETER ROUND COVER CENTERED AT TOP. COVER SHALL BE DESIGNED FOR AASHTO H-20 LOADING. PROVIDE ¾" ROUND X 10'-0" LONG COPPER-CLAD STEEL GROUND ROD WITH GROUNDING CLAMP IN EACH PULL BOX. PROVIDE TWO, 8" LONG CABLE RACKS WITH TWO SADDLES EACH ON EACH WALL. PROVIDE ONE CABLE PULLING-IN IRON CENTERED ON EACH WALL. PROVIDE 12" INCH DEEP #57 CRUSHED STONE BASE BENEATH EACH PULLBOX.
4. PROVIDE CONDUIT SEALS AND CABLE SEALS WHERE NEW CONDUIT ENTERS EACH EXISTING BUILDING BELOW GRADE.
5. PROVIDE #2/0 BARE COPPER GROUND WIRE DIRECT BURIED IN MINIMUM OF 30" BELOW GRADE AND RUN BELOW THE ENTIRE LENGTH OF THE DUCT BANK. CONNECT TO GROUND ROD INSIDE EACH PULL BOX WITH EXOTHERMIC WELDS. GROUND EACH METAL CABLE RACK ARM WITH #2 BARE COPPER GROUND WIRE.
6. PROVIDE ADDITIONAL PULLBOXES SO THAT FIBER OPTIC CABLE PULLING DISTANCE DOES NOT EXCEED 300 FEET.

GENERAL NOTES:

1. EXISTING UNDERGROUND UTILITY LINES HAVE BEEN SHOWN ON THE ELECTRICAL SITE PLAN TO AID IN THE INSTALLATION OF NEW UNDERGROUND CONDUITS FOR THE NEW FIRE ALARM SIGNAL AND SECURITY SYSTEM CABLE TO THE BUILDINGS INDICATED. CERTAIN EXISTING UNDERGROUND UTILITY LINES WERE REPRODUCED FROM EXISTING SITE UTILITY DRAWINGS AND HAVE NOT BEEN VERIFIED IN THE FIELD. THERE ARE NUMEROUS UNDERGROUND TELEPHONE LINES ON THE SITE, NONE OF WHICH HAVE BEEN SHOWN ON THE ELECTRICAL SITE PLAN, BECAUSE THERE ARE NO EXISTING SITE DRAWINGS FOR THE TELEPHONE LINES. THE CONTRACTOR SHALL COORDINATE THE LOCATIONS OF COMMERCIAL UTILITIES WITH LOCAL UTILITY COMPANIES AND CONSULT WITH THE OWNER'S REPRESENTATIVE CONCERNING THE LOCATIONS OF TRAINING CENTER OWNED UTILITIES. THE CONTRACTOR SHALL CONFIRM THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES USING EQUIPMENT DESIGNED FOR THE PURPOSE. TRENCHING FOR THE NEW DIRECT BURIAL CABLES AND DUCT BANK SHALL BE BY HAND IN THE VICINITY OF ALL EXISTING UNDERGROUND UTILITIES. ALL DAMAGE TO EXISTING UTILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY WORKMEN OF THE APPROPRIATE TRADES AT NO EXPENSE TO THE OWNER.
2. PROVIDE TRENCHING, GRADING, AND BACKFILLING AS REQUIRED FOR THE INSTALLATION OF CONDUIT FOR FIRE ALARM AND SECURITY SYSTEM CABLE. TOPS OF CONDUITS SHALL BE MINIMUM OF 24 INCHES BELOW GRADE. AFTER INSTALLATION OF CONDUIT IS COMPLETE, RESTORE EXCAVATED OR OTHERWISE DISTURBED AREAS TO THEIR PROPER ELEVATIONS. PATCH ALL SIDEWALKS, PAVEMENT, AND REPLACE GRASS AREAS THAT ARE DISTURBED DURING CONSTRUCTION TO MATCH EXISTING CONDITIONS.
3. SEE DWG E-16 FOR NEW FIRE ALARM SYSTEM NOTES.
4. SEE ELECTRICAL SITE PLAN NOTES, THIS DWG.
5. EACH BUILDING SPRINKLER SYSTEM FIRE DEPARTMENT VAULT CONTAINS AN EXTERIOR POST INDICATING VALVE, 2 TAMPER SWITCHES AND TWO INTERIOR VALVE TAMPER SWITCHES. CONNECT THESE TAMPER SWITCHES TO THE BUILDING FIRE ALARM CONTROL PANEL.

REV.	DATE	BY	APP.	DESCRIPTION	REV.	DATE	BY	APP.	DESCRIPTION
1	3/12/08	BWY	CBR	EXIT SIGN AND FIRE ALARM REVS					

COMMONWEALTH OF VIRGINIA
C. B. REYNOLDS
Lic. No. 005701
3/12/08
PROFESSIONAL ENGINEER

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COMMONWEALTH OF VIRGINIA
DEPARTMENT OF
Mental Health, Mental Retardation and Substance Abuse Services

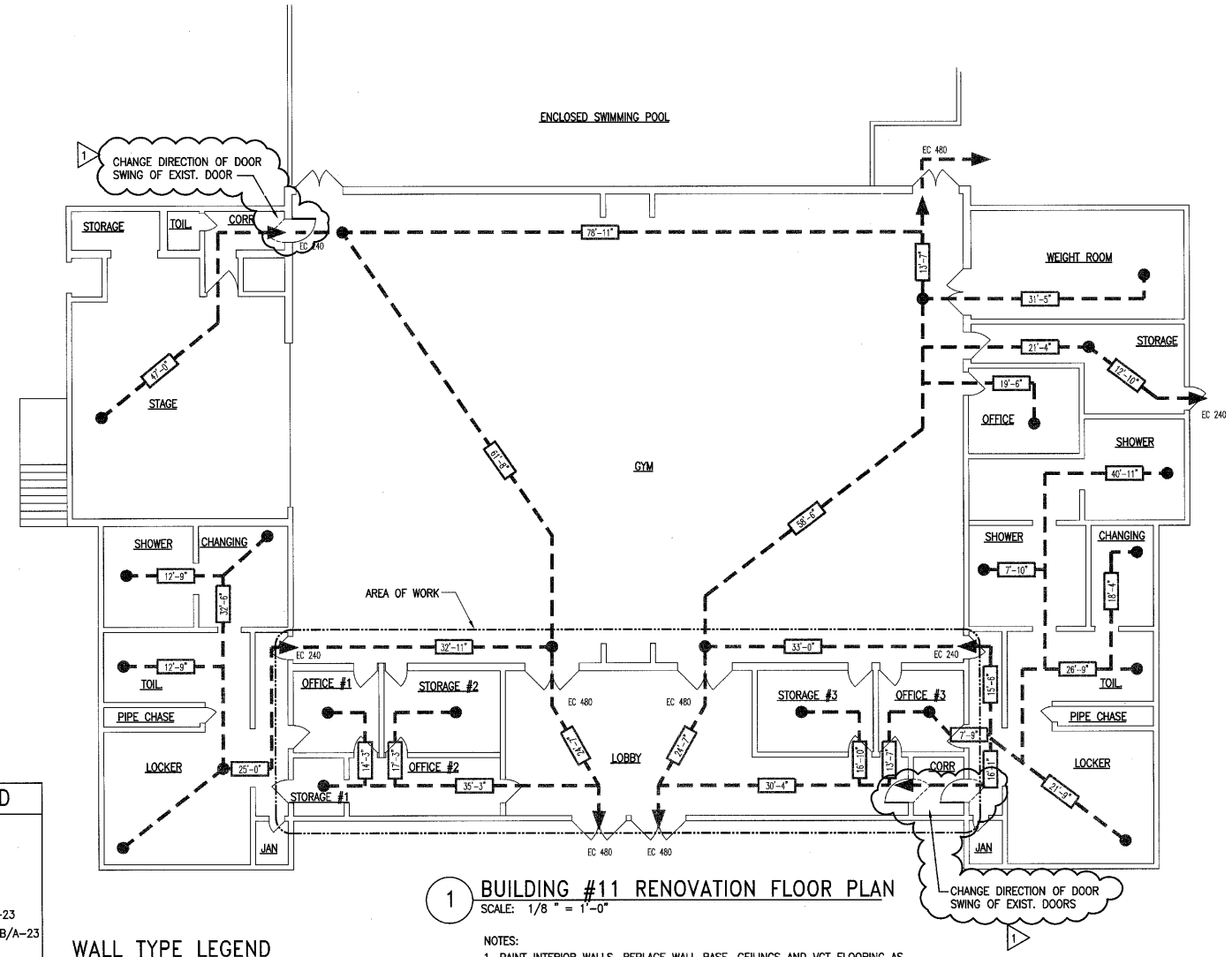
DESIGNED JLC	DRAWN JLC
CHECKED CBR	REVIEWED CBR
COMM. NO. 206114	CTRL. NO.
CADD NO. 206114E01.dwg	
DATE FEBRUARY 22, 2008	

PROJECT: DESIGN FOR LSC REPAIRS
BUILDINGS 1, 2, 3, 4, 5, 10, 11, 12
NORTHERN VA TRAINING CENTER
FAIRFAX, VIRGINIA

TITLE: SITE PLAN, LEGEND, & GENERAL NOTES (BASE BID)

DWG. NO. E-1 | SHEET NO. 25 OF 40 | REV.

Mar 17 2008-9:15am



1 BUILDING #11 RENOVATION FLOOR PLAN

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

NOTES:

1. PAINT INTERIOR WALLS, REPLACE WALL BASE, CEILINGS AND VCT FLOORING AS DESCRIBED IN THE GENERAL CONSTRUCTION NOTES IN LOBBY, CORRIDOR, OFFICES #1 #2 #3, STORAGE AREAS #1 #2 #3.
2. BUILDINGS ARE SERVED BY AN AUTOMATIC FIRE SPRINKLER SYSTEM AND FIRE DETECTION SYSTEM. THE BUILDINGS HAVE A POSITIVE LOCKING DOOR SYSTEM IN ACCORDANCE WITH THE DMHMRSAS CODE MODIFICATION LETTER, FROM THE BUILDING OFFICIAL. AN AREA OF REFUGE WILL BE LOCATED ON EITHER SIDE OF THE SMOKE BARRIER IDENTIFIED ON THE PLANS.
3. SEE ELECTRICAL DRAWINGS FOR LOCATION OF FIRE ALARM EQUIPMENT AND EXIT SIGNS.

WALL PENETRATION REPAIR LEGEND

(XX)X — TYPE OF PENETRATION / QUANTITY OF PENETRATION / SIZE OF PENETRATION

WALLS

* WALL GOES UP TO ROOF–SEE TYPICAL WALL INFILL DETAIL B/A–23
★ WALL STOPS SHORT OF ROOF–SEE TYPICAL WALL INFILL DETAIL B/A–23
NOTE: SEE DETAIL B/A–23 & D/A–23

HOLES		PIPES W/INSULATION	
H1	1" OR LESS	PI1	1" OR LESS
H2	LESS THAN 2"	PI2	LESS THAN 2"
H3	LESS THAN 3"	PI3	LESS THAN 3"
H4	GREATER THAN 3"	PI4	LESS THAN 4"
NOTE: SEE DETAIL D/A–23		NOTE: SEE DETAIL A/A–23	

CONDUIT		PIPES	
C1	1" OR LESS	P1	1" OR LESS
C2	LESS THAN 2"	P2	LESS THAN 2"
C3	LESS THAN 3"	P3	LESS THAN 3"
NOTE: SEE DETAIL A/A–23		NOTE: SEE DETAIL A/A–23	

WIRES
(W)X — WIRES / QUANTITY
NOTE: SEE DETAIL E/A–23

METAL CABLE
(MC)X — METAL CABLE / QUANTITY
NOTE: SEE DETAIL E/A–23

DUCTS
(DD)0x0 — (QUANTITY) DUCTS / SIZE OF PENETRATION
NOTE: SEE DETAIL C/A–23

WALL TYPE LEGEND

1. EXISTING 2–HR SEPARATION WALL
2. EXISTING NON–RATED WALLS
3. EXISTING WALL MODIFIED TO 1–HOUR SMOKE BARRIER WALL SEE DETAIL 2/A–23
4. NEW WALL OR OPENING INFILL, TO MATCH ADJACENT WALL CONSTRUCTION
5. NEW WALL 1–HOUR SMOKE BARRIER WALL SEE DETAIL 2/A–23
6. EXISTING WALL MODIFIED TO SMOKE PARTITION SEE DETAIL 3/A–23

DOOR TYPE LEGEND

EXISTING DOOR TO REMAIN IN PLACE (DEMOLITION & RENOVATION PLANS)

DOOR TO BE REMOVED OR RECONDITIONED (DEMOLITION PLANS)

RECONDITIONED, REPLACEMENT OR NEW DOOR (RENOVATION PLANS)

ROOM NUMBER — XXX
DOOR NUMBER — X
NEW, REPLACEMENT OR RECONDITIONED DOOR MARK

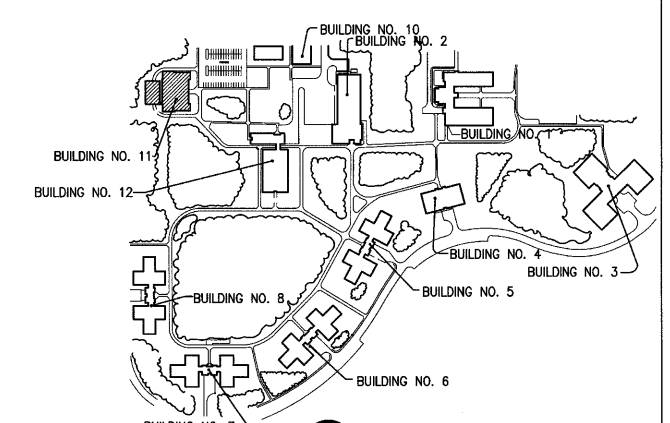
EGRESS LEGEND

TRAVEL ROUTE TO EXIT
STARTING POINT FOR EGRESS
XX'–X" — TRAVEL DISTANCE IN FEET–INCHES
E.C. 000 — EXIT CAPACITY

GENERAL INFORMATION

BUILDING NUMBER	11
CODES – RENOVATION:	VUSBC 2003
USE GROUP	I–2
CONSTRUCTION	2B
VUSBC OCCUPANT LOAD, PEOPLE	43
NUMBER OF BEDS	28
FIRST FLOOR AREA, SQ. FT. (NOT INCLUDING POOL)	11,655 SQ FT
SECOND FLOOR AREA, SQ. FT.	N/A
PENTHOUSE AREA, SQ. FT.	N/A
TOTAL BUILDING AREA, SQ. FT. (NOT INCLUDING POOL)	11,655 SQ FT
NUMBER OF FLOORS	1
TOTAL BUILDING VOLUME, CU. FT.	N/A

1. TOTAL BUILDING AREA AND VOLUME DO NOT INCLUDE ENCLOSED POOL.
2. BUILDING 11 IS CLIENT TREATMENT FACILITY AND THEREFORE IS CATEGORIZED AS ISTITUTIONAL.



LOCATION MAP

NO SCALE

REV.	DATE	BY	APP.	DESCRIPTION	REV.	DATE	BY	APP.	DESCRIPTION
1	3–12–08	JRS		ADD FIRE ALARM & EXIT SIGN NOTES, CHANGE DOOR SWING					

COMMONWEALTH OF VIRGINIA — John Robert Simms Lic. No. 7844 — 3-12-08 — REGISTERED

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COMMONWEALTH OF VIRGINIA
DEPARTMENT OF
Mental Health, Mental Retardation and Substance Abuse Services

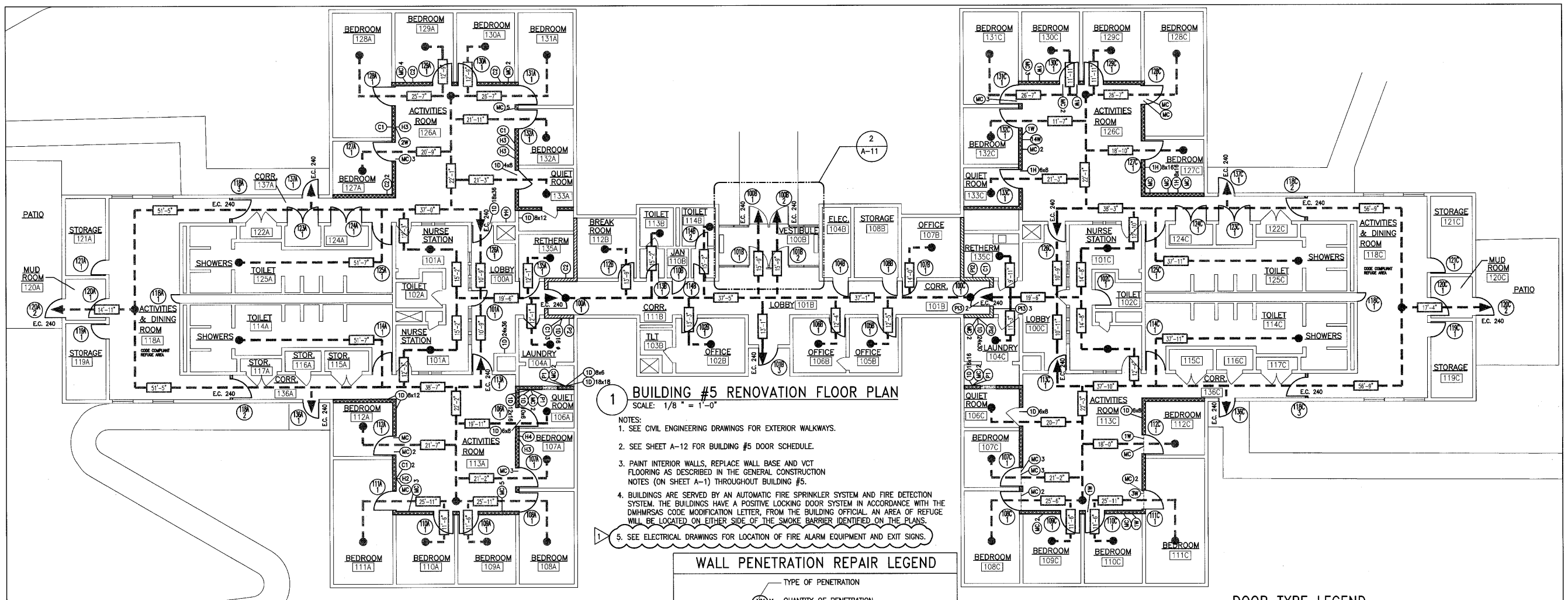
DESIGNED JRS	DRAWN MCM
CHECKED ND	REVIEWED HEM
COMM. NO. 206114	CTRL. NO.
CADD NO. 206114A–19.dwg	
DATE FEBRUARY 22, 2008	

PROJECT: DESIGN FOR LSC REPAIRS
BUILDINGS 1, 2, 3, 4, 5, 10, 11, 12
NORTHERN VA TRAINING CENTER
FAIRFAX, VIRGINIA

TITLE: BUILDING #11 – RENOVATION PLAN, ENLARGED PLAN (ADDITIVE BID #2)

DWG. NO. A–19 | SHEET NO. 19 OF 40 | REV.

Mar 14 2008–2:32pm



1 BUILDING #5 RENOVATION FLOOR PLAN

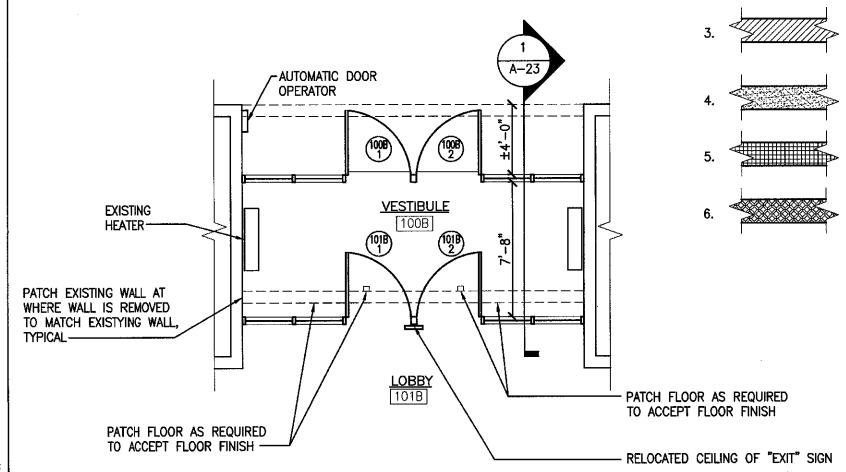
SCALE: 1/8 " = 1'-0"

NOTES:

1. SEE CIVIL ENGINEERING DRAWINGS FOR EXTERIOR WALKWAYS.
2. SEE SHEET A-12 FOR BUILDING #5 DOOR SCHEDULE.
3. PAINT INTERIOR WALLS, REPLACE WALL BASE AND VCT FLOORING AS DESCRIBED IN THE GENERAL CONSTRUCTION NOTES (ON SHEET A-1) THROUGHOUT BUILDING #5.
4. BUILDINGS ARE SERVED BY AN AUTOMATIC FIRE SPRINKLER SYSTEM AND FIRE DETECTION SYSTEM. THE BUILDINGS HAVE A POSITIVE LOCKING DOOR SYSTEM IN ACCORDANCE WITH THE DMHMRSAS CODE MODIFICATION LETTER, FROM THE BUILDING OFFICIAL. AN AREA OF REFUGE WILL BE LOCATED ON EITHER SIDE OF THE SMOKE BARRIER IDENTIFIED ON THE PLANS.
5. SEE ELECTRICAL DRAWINGS FOR LOCATION OF FIRE ALARM EQUIPMENT AND EXIT SIGNS.

WALL TYPE LEGEND

1. EXISTING 2-HR SEPARATION WALL
2. EXISTING NON-RATED WALLS
3. EXISTING WALL MODIFIED TO 1-HOUR SMOKE BARRIER WALL SEE DETAIL 2/A-23
4. NEW WALL OR OPENING INFILL, TO MATCH ADJACENT WALL CONSTRUCTION
5. NEW WALL 1-HOUR SMOKE BARRIER WALL SEE DETAIL 2/A-23
6. EXISTING WALL MODIFIED TO SMOKE PARTITION SEE DETAIL 3/A-23



2 BUILDING #5 MAIN ENTRANCE RENOVATION PLAN

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

WALL PENETRATION REPAIR LEGEND

(XX) X — QUANTITY OF PENETRATION; SIZE OF PENETRATION; TYPE OF PENETRATION

WALLS

* WALL GOES UP TO ROOF-SEE TYPICAL WALL INFILL DETAIL B/A-23

★ WALL STOPS SHORT OF ROOF-SEE TYPICAL WALL INFILL DETAIL B/A-23
NOTE: SEE DETAIL B/A-23 & D/A-23

HOLES		PIPES W/INSULATION	
H1	1" OR LESS	PI1	1" OR LESS
H2	LESS THAN 2"	PI2	LESS THAN 2"
H3	LESS THAN 3"	PI3	LESS THAN 3"
H4	GREATER THAN 3"	PI4	LESS THAN 4"
NOTE: SEE DETAIL D/A-23		NOTE: SEE DETAIL A/A-23	

CONDUIT		PIPES	
C1	1" OR LESS	P1	1" OR LESS
C2	LESS THAN 2"	P2	LESS THAN 2"
C3	LESS THAN 3"	P3	LESS THAN 3"
NOTE: SEE DETAIL A/A-23		NOTE: SEE DETAIL A/A-23	

WIRES
W X — WIRES; QUANTITY
NOTE: SEE DETAIL E/A-23

METAL CABLE
MC X — METAL CABLE; QUANTITY
NOTE: SEE DETAIL E/A-23

DUCTS
OD DxD — (QUANTITY) DUCTS; SIZE OF PENETRATION
NOTE: SEE DETAIL C/A-23

EGRESS LEGEND

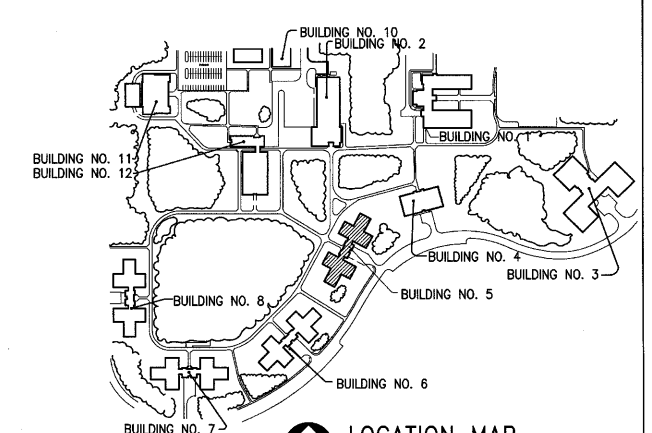
- TRAVEL DISTANCE TO EXIT
- STARTING POINT FOR EGRESS
- XX'-X" — TRAVEL DISTANCE IN FEET-INCHES
- E.C. 000 — EXIT CAPACITY

DOOR TYPE LEGEND

- EXISTING DOOR TO REMAIN IN PLACE (DEMOLITION & RENOVATION PLANS)
- DOOR TO BE REMOVED OR RECONDITIONED (DEMOLITION PLANS)
- RECONDITIONED, REPLACEMENT OR NEW DOOR (RENOVATION PLANS)
- ROOM NUMBER / DOOR NUMBER — NEW, REPLACEMENT OR RECONDITIONED DOOR MARK

GENERAL INFORMATION

BUILDING NUMBER	5
CODES – RENOVATION:	VUSBC 2003
USE GROUP	I-2
CONSTRUCTION	2B
VUSBC OCCUPANT LOAD, PEOPLE	43
NUMBER OF BEDS	28
FIRST FLOOR AREA, SQ. FT.	17,121 SQ FT
SECOND FLOOR AREA, SQ. FT.	N/A
PENTHOUSE AREA, SQ. FT.	N/A
TOTAL BUILDING AREA, SQ. FT.	17,121 SQ FT
NUMBER OF FLOORS	1
TOTAL BUILDING VOLUME, CU. FT.	193,978 CU FT



LOCATION MAP

NO SCALE

REV.	DATE	BY	APP.	DESCRIPTION	REV.	DATE	BY	APP.	DESCRIPTION
1	3-12-08	JRS		ADD FIRE ALARM & EXIT SIGN NOTES					

COMMONWEALTH OF VIRGINIA — John Robert Simms — Lic. No. 7844

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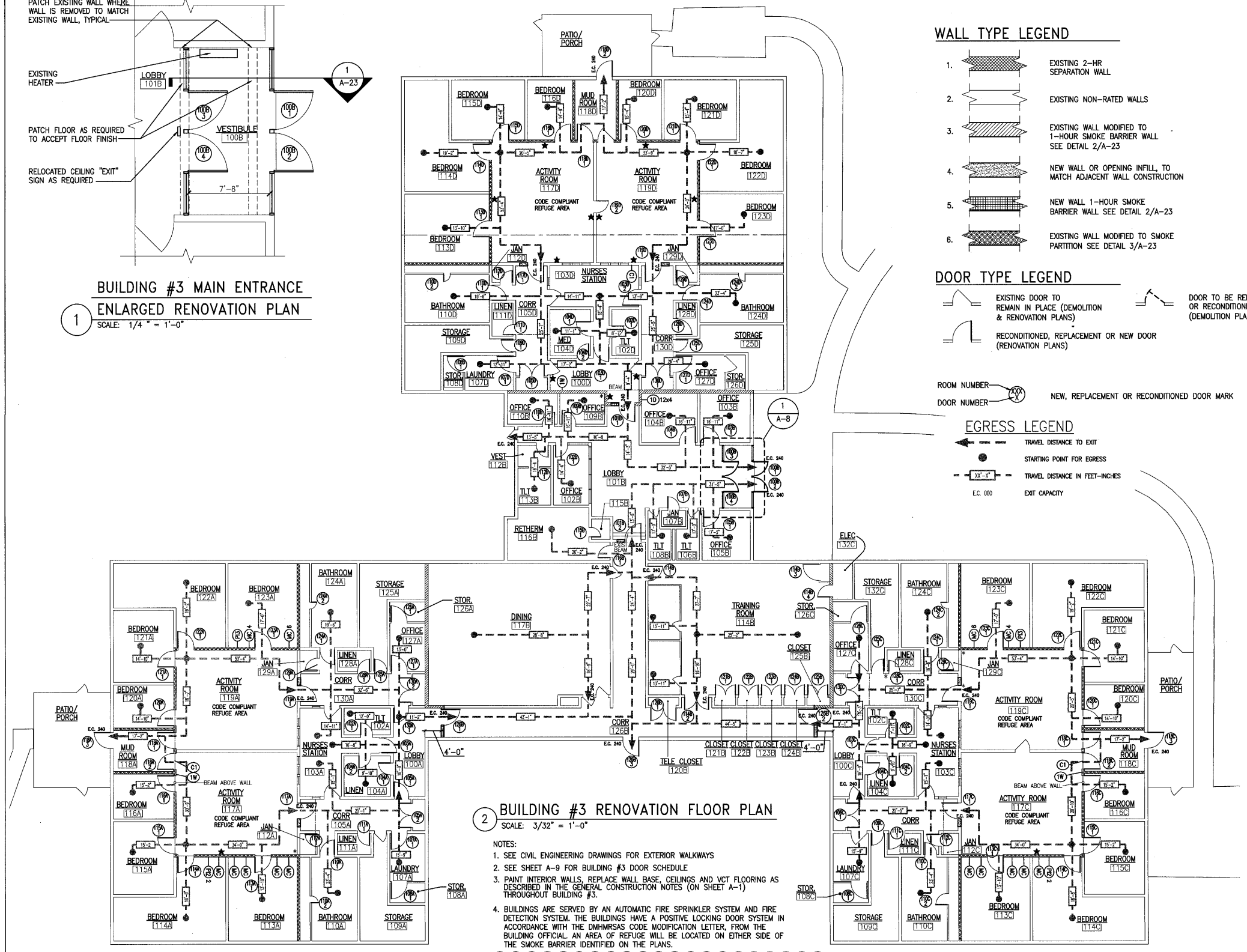
COMMONWEALTH OF VIRGINIA
DEPARTMENT OF
Mental Health, Mental Retardation and Substance Abuse Services

DESIGNED JRS	DRAWN MCM	PROJECT: DESIGN FOR LSC REPAIRS BUILDINGS 1, 2, 3, 4, 5, 10, 11, 12 NORTHERN VA TRAINING CENTER FAIRFAX, VIRGINIA
CHECKED ND	REVIEWED HEM	
COMM. NO. 206114	CTRL. NO.	
CADD NO. 206114A-11.dwg		TITLE: BUILDING #5 – RENOVATION PLAN, ENLARGED PLAN
DATE FEBRUARY 22, 2008	DWG. NO. A-11	SHEET NO. 16 OF 40 — REV.

Mar 14 2008-2:27pm

BUILDING #3 MAIN ENTRANCE ENLARGED RENOVATION PLAN

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



BUILDING #3 RENOVATION FLOOR PLAN

2 SCALE: 3/32" = 1'-0"

NOTES:

1. SEE CIVIL ENGINEERING DRAWINGS FOR EXTERIOR WALKWAYS
2. SEE SHEET A-9 FOR BUILDING #3 DOOR SCHEDULE
3. PAINT INTERIOR WALLS, REPLACE WALL BASE, CEILINGS AND VCT FLOORING AS DESCRIBED IN THE GENERAL CONSTRUCTION NOTES (ON SHEET A-1) THROUGHOUT BUILDING #3.
4. BUILDINGS ARE SERVED BY AN AUTOMATIC FIRE SPRINKLER SYSTEM AND FIRE DETECTION SYSTEM. THE BUILDINGS HAVE A POSITIVE LOCKING DOOR SYSTEM IN ACCORDANCE WITH THE DMHMRSAS CODE MODIFICATION LETTER, FROM THE BUILDING OFFICIAL. AN AREA OF REFUGE WILL BE LOCATED ON EITHER SIDE OF THE SMOKE BARRIER IDENTIFIED ON THE PLANS.
5. SEE ELECTRICAL DRAWINGS FOR LOCATION OF FIRE ALARM EQUIPMENT AND EXIT SIGNS.

WALL TYPE LEGEND

1. EXISTING 2-HR SEPARATION WALL
2. EXISTING NON-RATED WALLS
3. EXISTING WALL MODIFIED TO 1-HOUR SMOKE BARRIER WALL SEE DETAIL 2/A-23
4. NEW WALL OR OPENING INFILL, TO MATCH ADJACENT WALL CONSTRUCTION
5. NEW WALL 1-HOUR SMOKE BARRIER WALL SEE DETAIL 2/A-23
6. EXISTING WALL MODIFIED TO SMOKE PARTITION SEE DETAIL 3/A-23

DOOR TYPE LEGEND

- EXISTING DOOR TO REMAIN IN PLACE (DEMOLITION & RENOVATION PLANS)
- RECONDITIONED, REPLACEMENT OR NEW DOOR (RENOVATION PLANS)
- DOOR TO BE REMOVE OR RECONDITIONED (DEMOLITION PLANS)

ROOM NUMBER — XXX
DOOR NUMBER — X
NEW, REPLACEMENT OR RECONDITIONED DOOR MARK

EGRESS LEGEND

- TRAVEL DISTANCE TO EXIT
- STARTING POINT FOR EGRESS
- XX'-X" — TRAVEL DISTANCE IN FEET-INCHES
- E.C. 000 — EXIT CAPACITY

WALL PENETRATION REPAIR LEGEND

XX — TYPE OF PENETRATION
X — QUANTITY OF PENETRATION
SIZE OF PENETRATION

WALLS

* WALL GOES UP TO ROOF-SEE TYPICAL WALL INFILL DETAIL B/A-23
★ WALL STOPS SHORT OF ROOF-SEE TYPICAL WALL INFILL DETAIL B/A-23
NOTE: SEE DETAIL B/A-23 & D/A-23

HOLES		PIPES W/INSULATION	
H1	1" OR LESS	PI1	1" OR LESS
H2	LESS THAN 2"	PI2	LESS THAN 2"
H3	LESS THAN 3"	PI3	LESS THAN 3"
H4	GREATER THAN 3"	PI4	LESS THAN 4"
NOTE: SEE DETAIL D/A-23		NOTE: SEE DETAIL A/A-23	

CONDUIT		PIPES	
C1	1" OR LESS	P1	1" OR LESS
C2	LESS THAN 2"	P2	LESS THAN 2"
C3	LESS THAN 3"	P3	LESS THAN 3"
NOTE: SEE DETAIL A/A-23		NOTE: SEE DETAIL A/A-23	

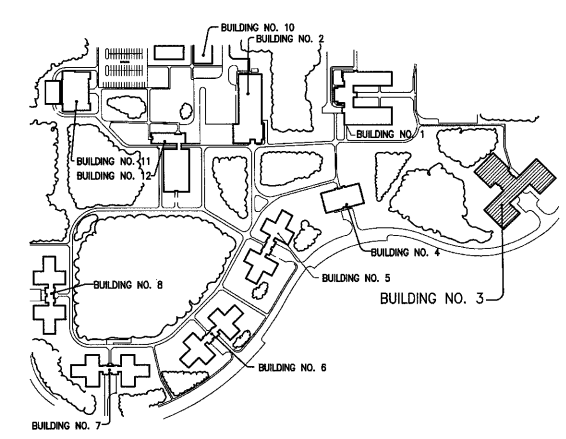
WIRES
W X — WIRES; QUANTITY
NOTE: SEE DETAIL E/A-23

METAL CABLE
MC X — METAL CABLE; QUANTITY
NOTE: SEE DETAIL E/A-23

DUCTS
OD 0x0 — (QUANTITY) DUCTS; SIZE OF PENETRATION
NOTE: SEE DETAIL C/A-23

GENERAL INFORMATION

BUILDING NUMBER	3
CODES - RENOVATION:	VUSBC 2003
USE GROUP	I-2
CONSTRUCTION	2B
VUSBC OCCUPANT LOAD, PEOPLE	50
NUMBER OF BEDS	24
FIRST FLOOR AREA, SQ. FT.	22,590 SQ FT
SECOND FLOOR AREA, SQ. FT.	N/A
PENTHOUSE AREA, SQ. FT.	N/A
TOTAL BUILDING AREA, SQ. FT.	22,590 SQ FT
NUMBER OF FLOORS	1
TOTAL BUILDING VOLUME, CU. FT.	255,949 CU FT



LOCATION MAP

NO SCALE

Mar 14 2008-2:18pm

REV.	DATE	BY	APP.	DESCRIPTION	REV.	DATE	BY	APP.	DESCRIPTION
1	3-12-08	JRS		ADD FIRE ALARM & EXIT SIGN NOTES					

COMMONWEALTH OF VIRGINIA — John Robert Simms, Lic. No. 7844, ARCHITECT

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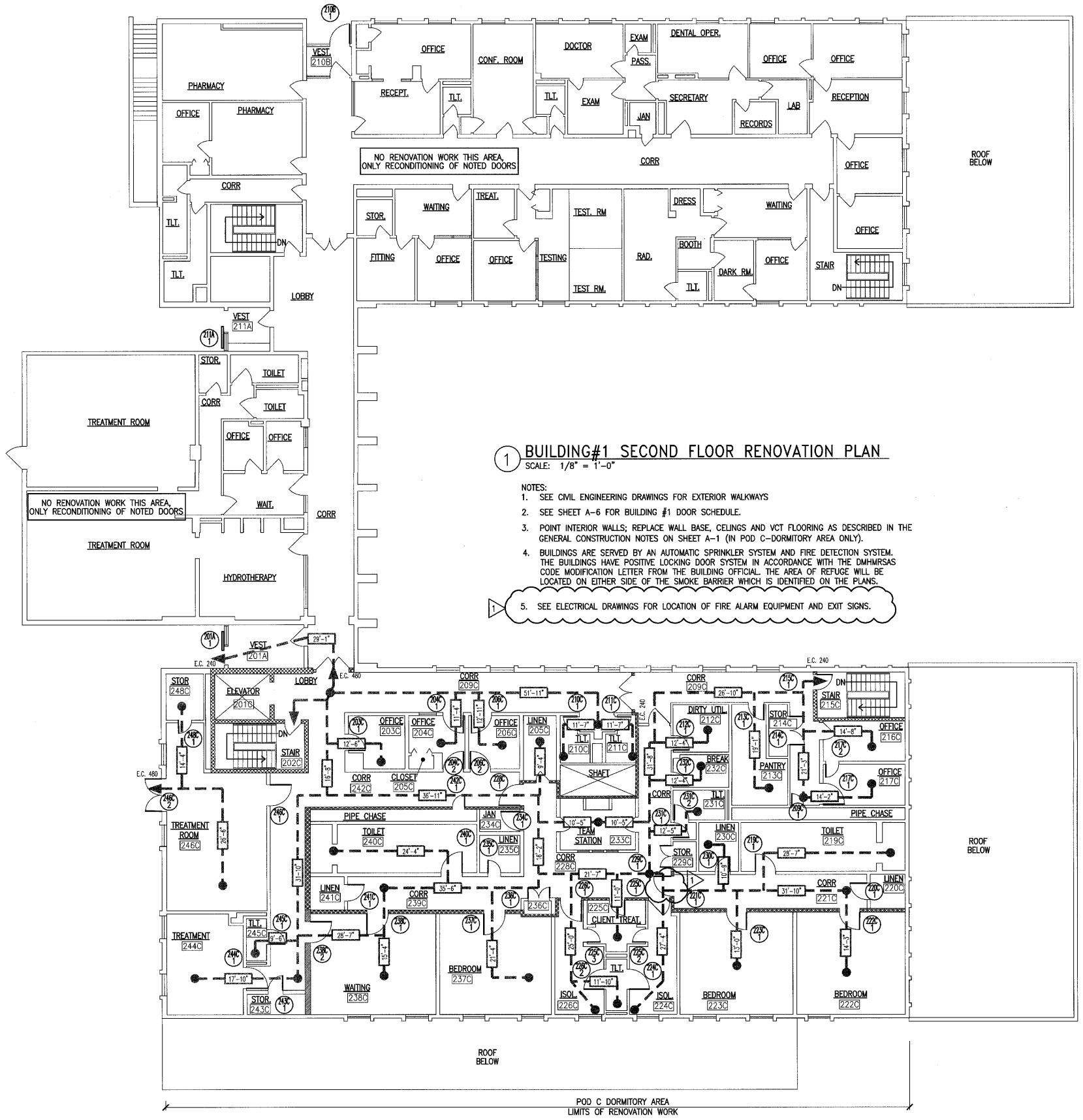
COMMONWEALTH OF VIRGINIA
DEPARTMENT OF
Mental Health, Mental Retardation and Substance Abuse Services

DESIGNED JRS	DRAWN MCM
CHECKED HD	REVIEWED NEM
COMM. NO. 206114	CTRL. NO.
CADD NO. 206114A-8.dwg	
DATE FEBRUARY 22, 2008	

PROJECT: DESIGN FOR LSC REPAIRS
BUILDINGS 1, 2, 3, 4, 5, 10, 11, 12
NORTHERN VA TRAINING CENTER
FAIRFAX, VIRGINIA

TITLE: BUILDING #3 - RENOVATION PLAN, ENLARGED PLAN

DWG. NO. A-8 | SHEET NO. 13 OF 40 | REV.



1 BUILDING#1 SECOND FLOOR RENOVATION PLAN

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

NOTES:

1. SEE CIVIL ENGINEERING DRAWINGS FOR EXTERIOR WALKWAYS
2. SEE SHEET A-6 FOR BUILDING #1 DOOR SCHEDULE.
3. POINT INTERIOR WALLS; REPLACE WALL BASE, CELINGS AND VCT FLOORING AS DESCRIBED IN THE GENERAL CONSTRUCTION NOTES ON SHEET A-1 (IN POD C-DORMITORY AREA ONLY).
4. BUILDINGS ARE SERVED BY AN AUTOMATIC SPRINKLER SYSTEM AND FIRE DETECTION SYSTEM. THE BUILDINGS HAVE POSITIVE LOCKING DOOR SYSTEM IN ACCORDANCE WITH THE DMHMRSAS CODE MODIFICATION LETTER FROM THE BUILDING OFFICIAL. THE AREA OF REFUGE WILL BE LOCATED ON EITHER SIDE OF THE SMOKE BARRIER WHICH IS IDENTIFIED ON THE PLANS.
5. SEE ELECTRICAL DRAWINGS FOR LOCATION OF FIRE ALARM EQUIPMENT AND EXIT SIGNS.

WALL TYPE LEGEND

1. EXISTING 2-HR SEPARATION WALL
2. EXISTING NON-RATED WALLS
3. EXISTING WALL MODIFIED TO 1-HOUR SMOKE BARRIER WALL SEE DETAIL 2/A-23
4. NEW WALL OR OPENING INFILL, TO MATCH ADJACENT WALL CONSTRUCTION
5. NEW WALL 1-HOUR SMOKE BARRIER WALL SEE DETAIL 2/A-23
6. EXISTING WALL MODIFIED TO SMOKE PARTITION SEE DETAIL 3/A-23

DOOR TYPE LEGEND

EXISTING DOOR TO REMAIN IN PLACE (DEMOLITION & RENOVATION PLANS)

DOOR TO BE REMOVED OR RECONDITIONED (DEMOLITION PLANS)

RECONDITIONED, REPLACEMENT OR NEW DOOR (RENOVATION PLANS)

ROOM NUMBER — XXX
DOOR NUMBER — X

NEW, REPLACEMENT OR RECONDITIONED DOOR MARK

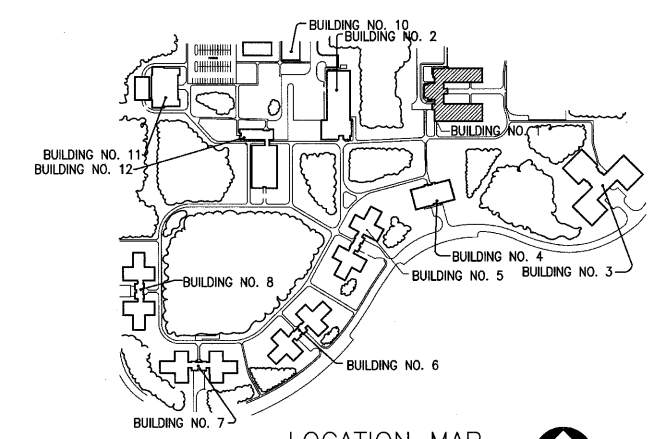
EGRESS LEGEND

TRAVEL DISTANCE TO EXIT

STARTING POINT FOR EGRESS

XX'-X" — TRAVEL DISTANCE IN FEET-INCHES

E.C. 000 — EXIT CAPACITY



LOCATION MAP

NO SCALE

Mar 14 2008-2:15pm

REV.	DATE	BY	APP.	DESCRIPTION	REV.	DATE	BY	APP.	DESCRIPTION
1	3-12-08	JRS		ADD FIRE ALARM & EXIT SIGN NOTES, CHANGE DOOR SWING					

COMMONWEALTH OF VIRGINIA
John Robert Simms
Lic. No. 7844

Wiley & Wilson
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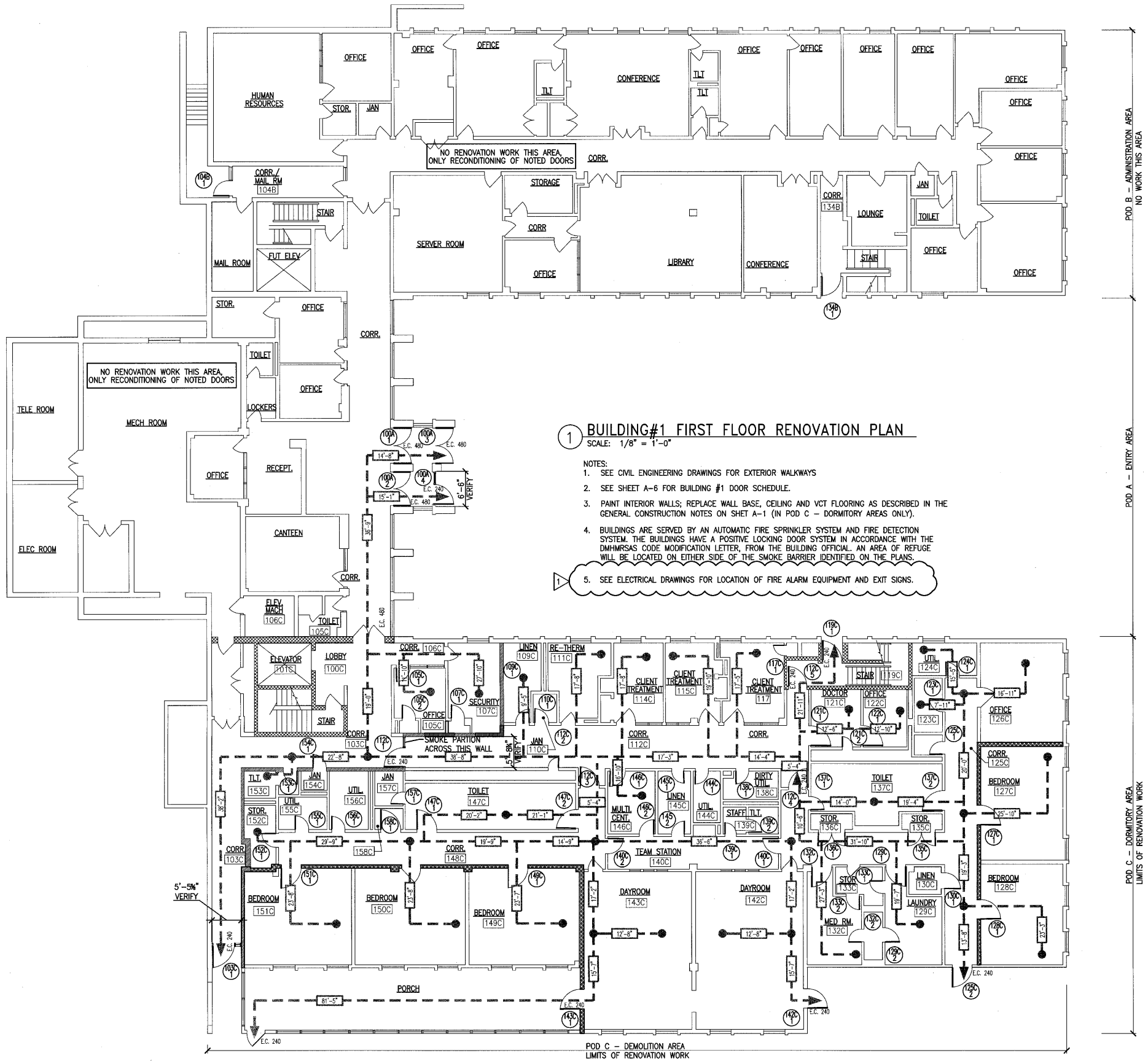
COMMONWEALTH OF VIRGINIA
DEPARTMENT OF
Mental Health, Mental Retardation and Substance Abuse Services

DESIGNED JRS	DRAWN MCM
CHECKED ND	REVIEWED NEM
COMM. NO. 206114	CTRL. NO.
CADD NO. 206114A-5.dwg	
DATE FEBRUARY 22, 2008	

PROJECT: DESIGN FOR LSC REPAIRS BUILDINGS 1, 2, 3, 4, 5, 10, 11, 12 NORTHERN VA TRAINING CENTER FAIRFAX, VIRGINIA

TITLE: BUILDING #1 – SECOND FLOOR RENOVATION PLAN

DWG. NO. A-5 | SHEET NO. 10 OF 40 | REV.



1 BUILDING#1 FIRST FLOOR RENOVATION PLAN

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

NOTES:

1. SEE CIVIL ENGINEERING DRAWINGS FOR EXTERIOR WALKWAYS
2. SEE SHEET A-6 FOR BUILDING #1 DOOR SCHEDULE.
3. PAINT INTERIOR WALLS; REPLACE WALL BASE, CEILING AND VCT FLOORING AS DESCRIBED IN THE GENERAL CONSTRUCTION NOTES ON SHET A-1 (IN POD C – DORMITORY AREAS ONLY).
4. BUILDINGS ARE SERVED BY AN AUTOMATIC FIRE SPRINKLER SYSTEM AND FIRE DETECTION SYSTEM. THE BUILDINGS HAVE A POSITIVE LOCKING DOOR SYSTEM IN ACCORDANCE WITH THE DMHMRSAS CODE MODIFICATION LETTER, FROM THE BUILDING OFFICIAL. AN AREA OF REFUGE WILL BE LOCATED ON EITHER SIDE OF THE SMOKE BARRIER IDENTIFIED ON THE PLANS.
5. SEE ELECTRICAL DRAWINGS FOR LOCATION OF FIRE ALARM EQUIPMENT AND EXIT SIGNS.

WALL TYPE LEGEND

1. EXISTING 2-HR SEPARATION WALL
2. EXISTING NON-RATED WALLS
3. EXISTING WALL MODIFIED TO 1-HOUR SMOKE BARRIER WALL SEE DETAIL 2/A-23
4. NEW WALL OR OPENING INFILL, TO MATCH ADJACENT WALL CONSTRUCTION
5. NEW WALL 1-HOUR SMOKE BARRIER WALL SEE DETAIL 2/A-23
6. EXISTING WALL MODIFIED TO SMOKE PARTITION SEE DETAIL 3/A-23

DOOR TYPE LEGEND

EXISTING DOOR TO REMAIN IN PLACE (DEMOLITION & RENOVATION PLANS)

RECONDITIONED, REPLACEMENT OR NEW DOOR (RENOVATION PLANS)

DOOR TO BE REMOVED OR RECONDITIONED (DEMOLITION PLANS)

ROOM NUMBER — XXX
DOOR NUMBER — X
NEW, REPLACEMENT OR RECONDITIONED DOOR MARK

EGRESS LEGEND

TRAVEL DISTANCE TO EXIT

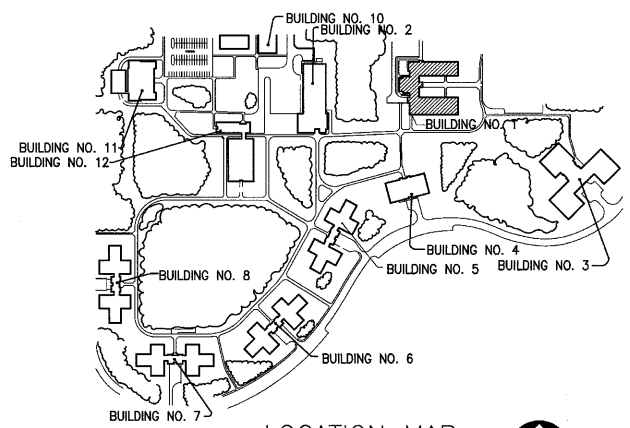
STARTING POINT FOR EGRESS

XX'-X" TRAVEL DISTANCE IN FEET-INCHES

E.C. 000 EXIT CAPACITY

GENERAL INFORMATION

BUILDING NUMBER	1
CODES – RENOVATION:	VUSBC 2003
USE GROUP	I-2
CONSTRUCTION	2B
VUSBC OCCUPANT LOAD, PEOPLE	80
NUMBER OF BEDS	18
FIRST FLOOR AREA, SQ. FT.	22,824 SQ FT
SECOND FLOOR AREA, SQ. FT.	22,203 SQ FT
PENTHOUSE AREA, SQ. FT.	N/A
TOTAL BUILDING AREA, SQ. FT.	45,027 SQ FT
NUMBER OF FLOORS	2
TOTAL BUILDING VOLUME, CU. FT.	585,448 CU FT



LOCATION MAP
NO SCALE

Mar 14 2008–2:14pm

REV.	DATE	BY	APP.	DESCRIPTION	REV.	DATE	BY	APP.	DESCRIPTION
1	3-12-08	JRS		ADD FIRE ALARM & EXIT SIGN NOTES					

COMMONWEALTH OF VIRGINIA — John Robert Simms Lic. No. 7844 — ARCHITECT

Wiley & Wilson
Employee-Owned
6606 West Broad Street, Suite 500
Richmond, VA 23230-1717
www.wileywilson.com

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF
Mental Health, Mental Retardation and Substance Abuse Services

DESIGNED JRS	DRAWN MCM
CHECKED ND	REVIEWED NEM
COMM. NO. 206114	CTRL. NO.
CADD NO. 206114A-4.dwg	
DATE FEBRUARY 22, 2008	

PROJECT: DESIGN FOR LSC REPAIRS
BUILDINGS 1, 2, 3, 4, 5, 10, 11, 12
NORTHERN VA TRAINING CENTER
FAIRFAX, VIRGINIA

TITLE: BUILDING #1 – FIRST FLOOR RENOVATION PLAN

DWG. NO. A-4 | SHEET NO. 9 OF 40 | REV.