

CI BI | MAIN LEVEL

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

CODE REVIEW

PROJECT DESCRIPTION

FIRE ALARM SYSTEM REPLACEMENT AT HAMPSHIRE COUNTY HOUSE OF CORRECTIONS, NORTHAMPTON, MASSACHUSETTS.

	GROSS FLOOR AREA
GROUND FLOOR	15,704 SF
FIRST FLOOR	47,708 SF
FIRST FLOOR MEZZANINE	7,409 SF
TOTALS	70,821 SF

SUMMARY OF MASSACHUSETTS STATE BUILDING CODE, EIGHTH ED. (780 CMR)

ARTICLE 3: USE GROUP CLASSIFICATION

"I-3" INSTITUTIONAL

ARTICLE 6: TYPES OF CONSTRUCTION

I-A (8TH ED. MASSACHUSETTS BUILDING CODE)
I-B (WHEN ORIG. BUILT UNDER 4TH ED. MASSACHUSETTS BUILDING CODE)

EXISTING BUILDING CONSTRUCTION DESCRIPTION:
EXTERIOR AND INTERIOR MASONRY BEARING WALLS & FIRE-PROTECTED STEEL COLUMNS
PRECAST CONCRETE PLANK FLOOR & ROOF STRUCTURE
THE BUILDING IS FULLY SPRINKLED.

TABLE 601 - FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS

- EXTERIOR WALLS:
LOAD BEARING 3 HR
NON LOAD BEARING 0 HR
- INTERIOR BEARING WALLS 3 HR
- STRUCTURAL MEMBERS, SUPPORTING WALLS 3 HR
- FLOOR CONSTRUCTION, INCLUDING BEAMS 2 HR
- ROOF CONSTRUCTION INCLUDING BEAMS, 1.5 HR

TABLE 705.4 - FIRE WALL FIRE-RESISTANCE RATINGS

- FIRE WALLS 3 HR

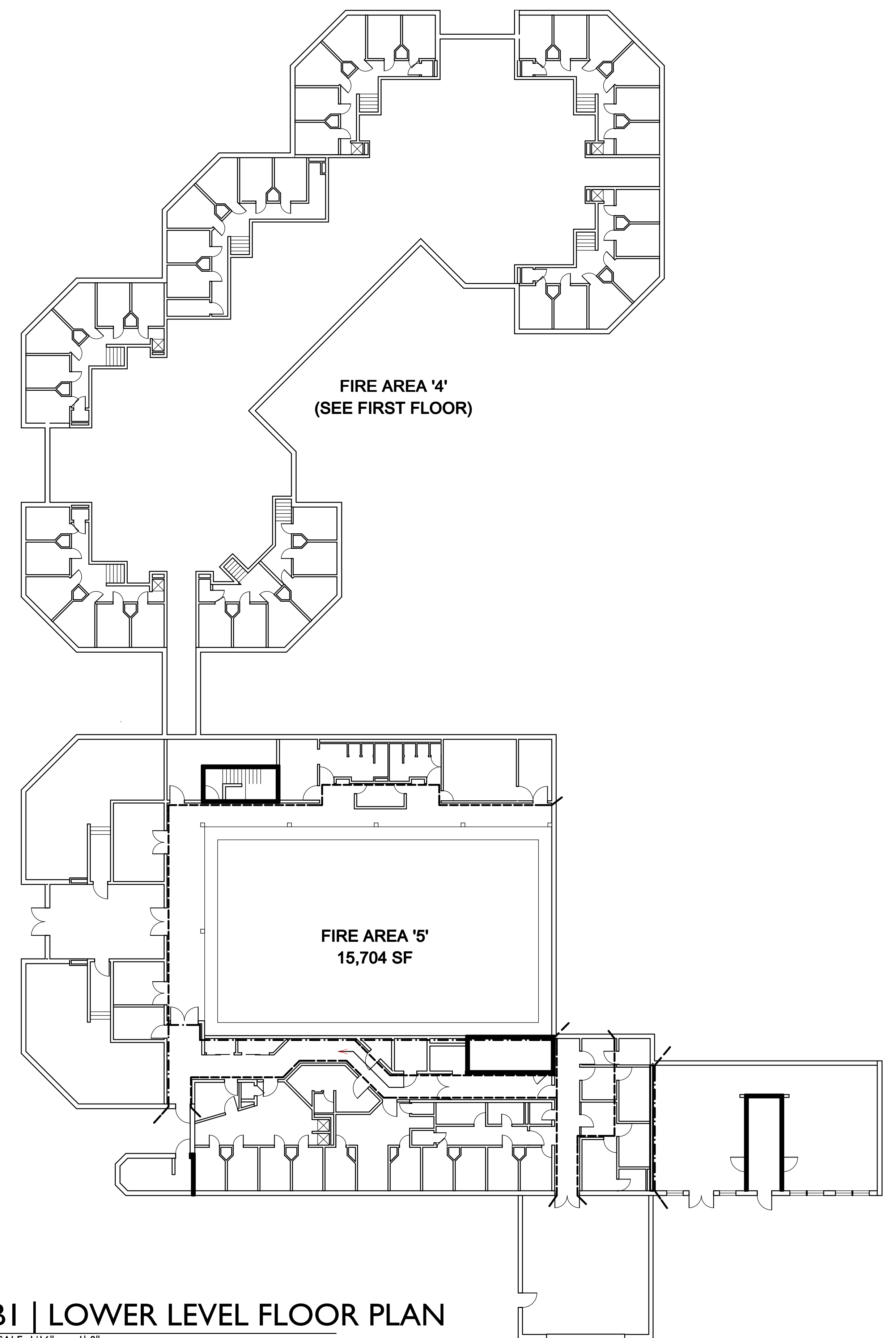
TABLE 706.3.7 - FIRE RESISTANCE RATING REQUIREMENTS FOR FIRE BARRIER ASSEMBLIES BETWEEN FIRE AREAS

- FIRE BARRIERS 2 HR
- SHAFTS 2 HR
- FIRE PARTITIONS - EGRESS CORRIDOR WALLS 1 HR
- SMOKE BARRIERS 0 HR

ARTICLE 5: GENERAL BUILDING LIMITATIONS

HEIGHT AND AREA LIMITATIONS FOR TYPE IA PROTECTED CONSTRUCTION

	TABLE 503 MAX. ALLOWABLE	STREET FRONTAGE INCREASE	FIRE SUPPRESSION SYSTEM INCREASE	TOTAL ALLOWABLE / FLOOR	TOTAL ALLOWABLE / BUILDING	PROPOSED	NOTES
HEIGHT FEET	UNLIMITED	N/A	N/A	N/A	N/A	NO CHANGE	
HEIGHT STORIES	UNLIMITED	N/A	N/A	N/A	N/A	NO CHANGE	
SQUARE FEET / FLOOR	UNLIMITED	N/A	N/A	N/A	N/A	NO CHANGE	



C6 BI | LOWER LEVEL FLOOR PLAN

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

REVISIONS			HAMPSHIRE COUNTY SHERIFF'S DEPT. PROJECT NO. 20945A CONTRACT NO. HSD FY12-05
NO.	DESCRIPTION	DATE	FIRE ALARM UPGRADES & REPLACEMENT
DD	DESIGN DEVELOPMENT	6/30/11	HAMPSHIRE COUNTY HOUSE OF CORRECTION NORTHAMPTON, MA
CD	95% CD SUBMISSION	12/08/11	THE COMMONWEALTH OF MASSACHUSETTS HAMPSHIRE COUNTY SHERIFF'S DEPARTMENT ROCKY HILL ROAD NORTHAMPTON, MA 01060
CD	BID DOCUMENTS	12/28/11	DIETZ AND COMPANY ARCHITECTS, INC. 17 HAMPDEN STREET SPRINGFIELD, MA 01103
			CODE REVIEW
DRAWN: JP			SCALE: AS NOTED
CHECKED: KR			DATE: 12/28/2011

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