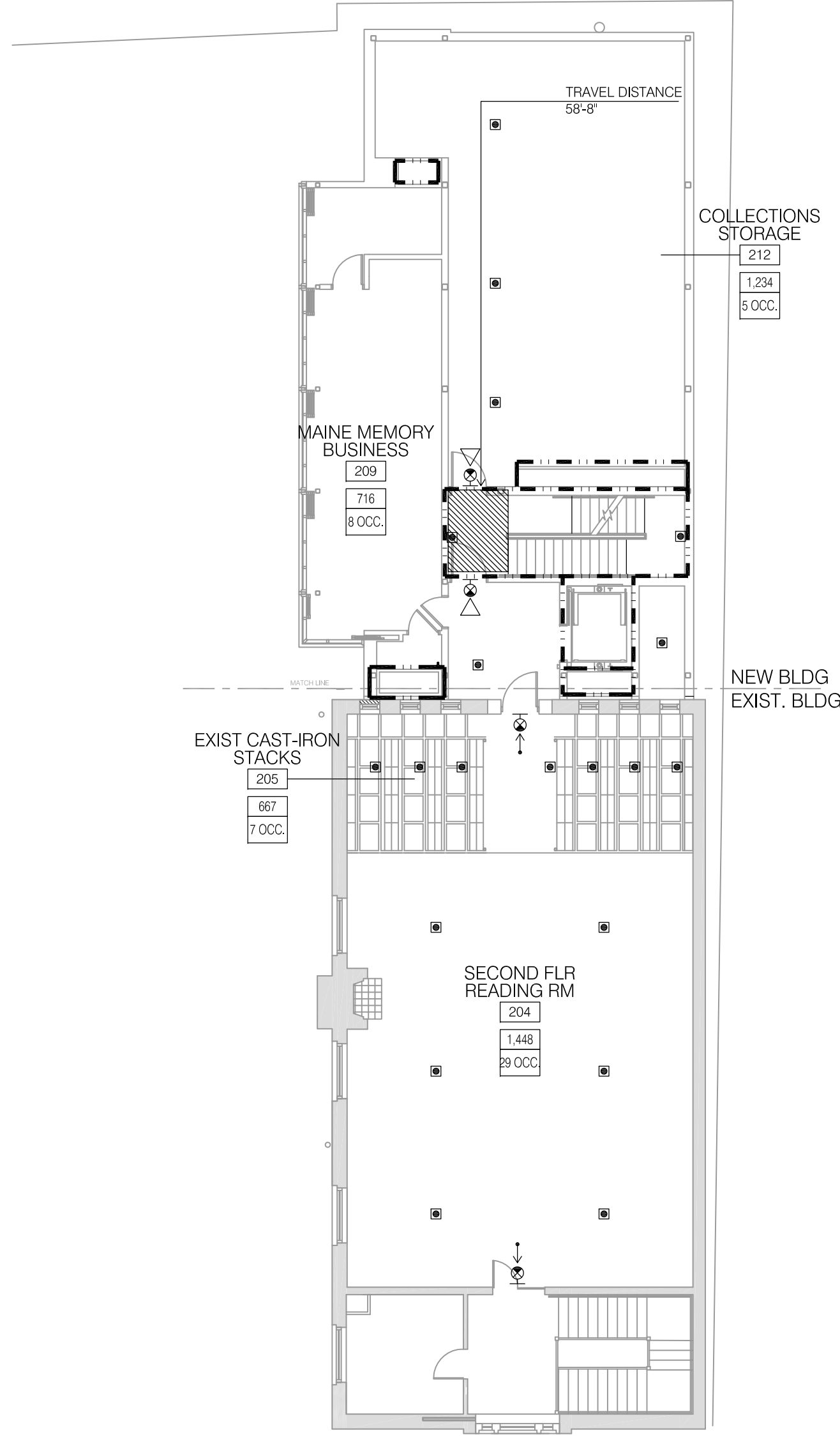
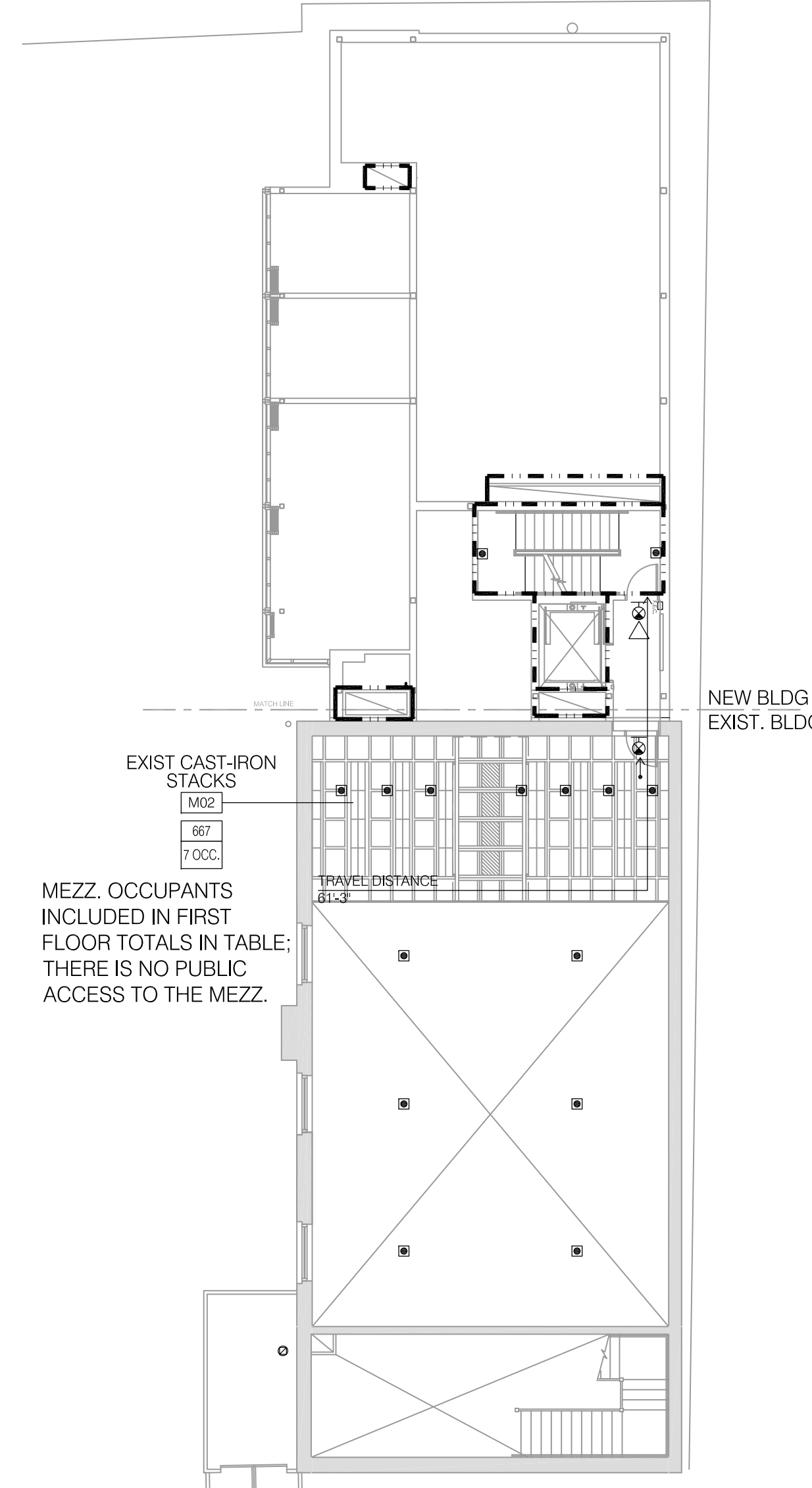


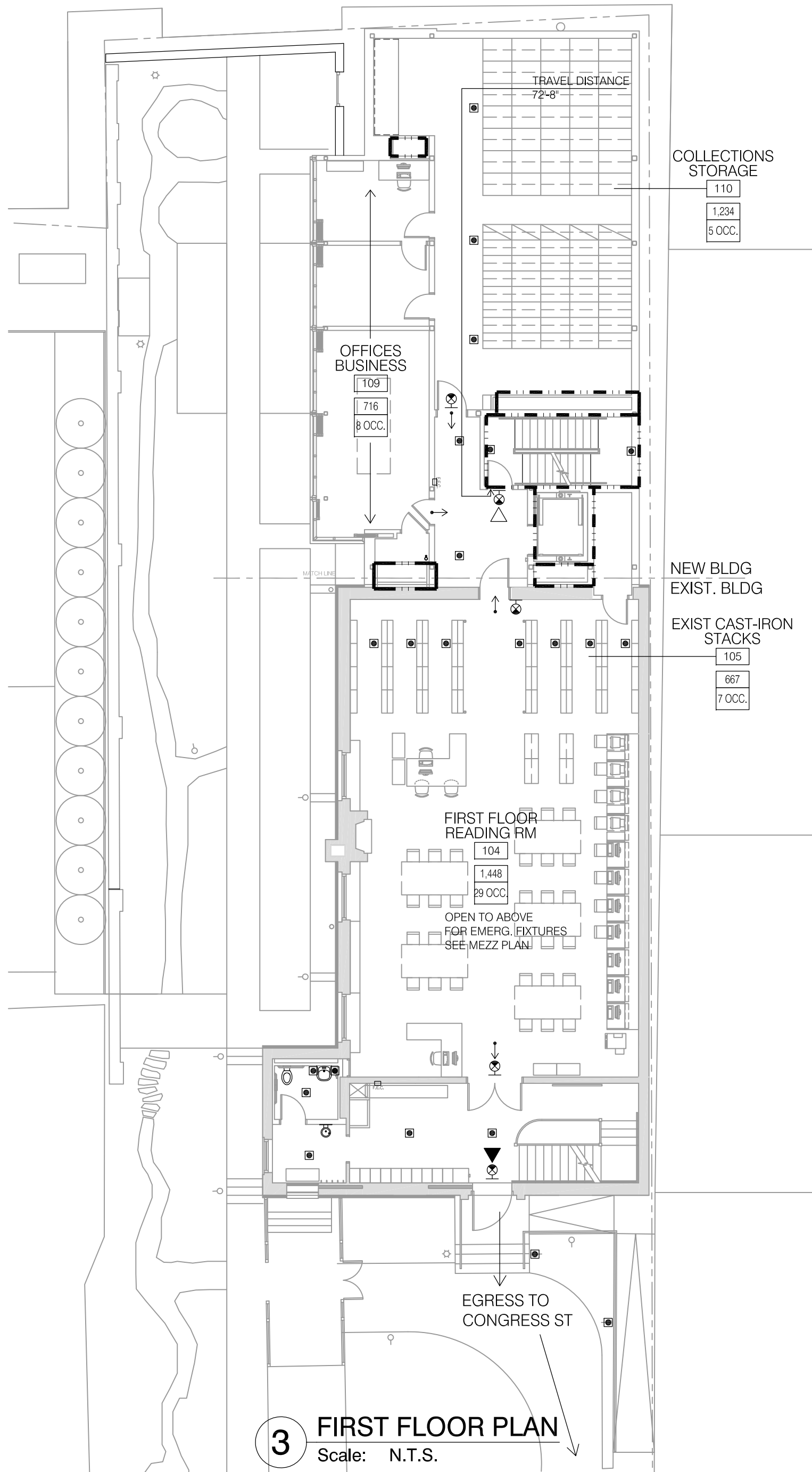
**6** PENTHOUSE PLAN  
Scale: N.T.S.



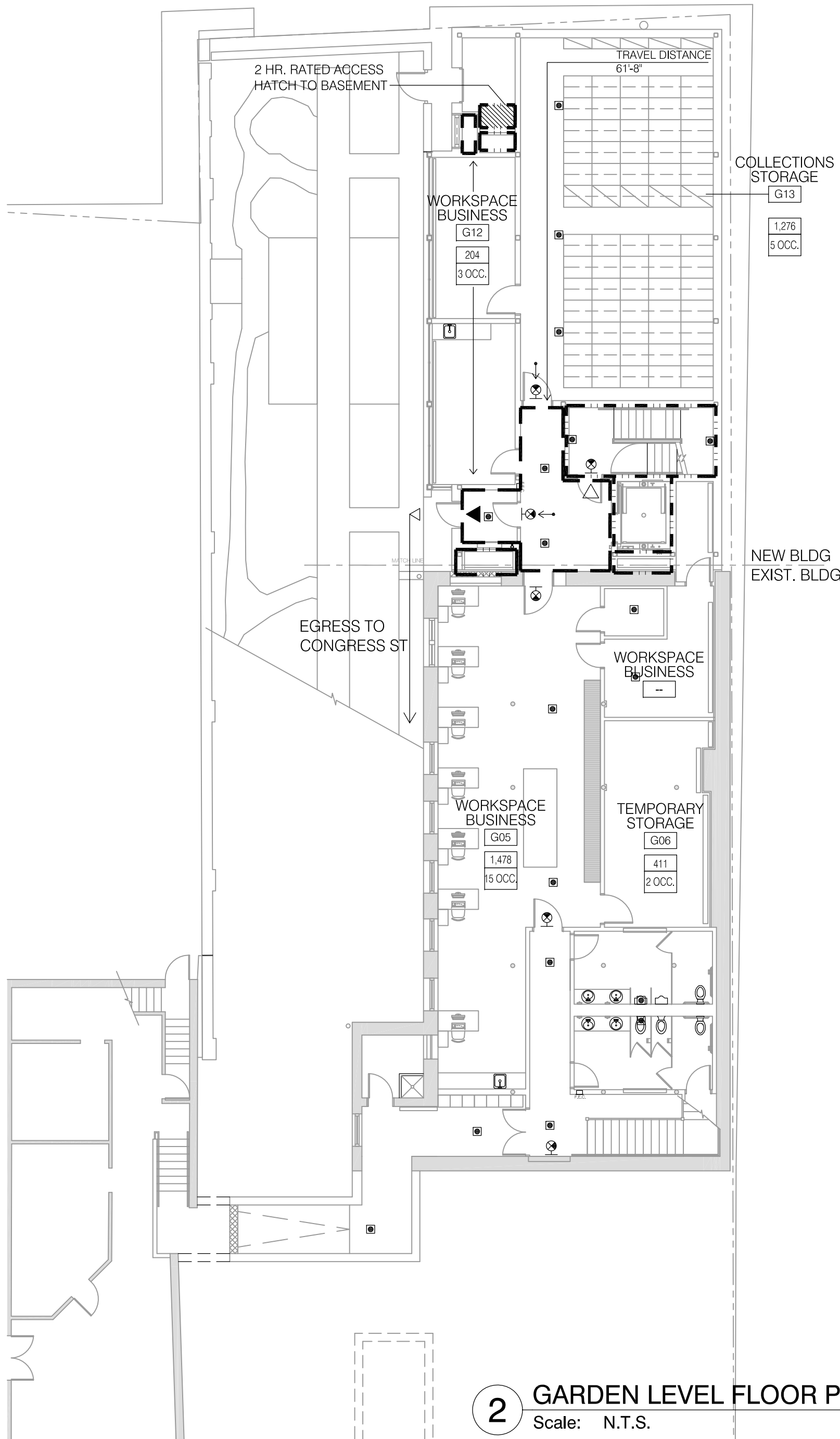
**5** SECOND FLOOR PLAN  
Scale: N.T.S.



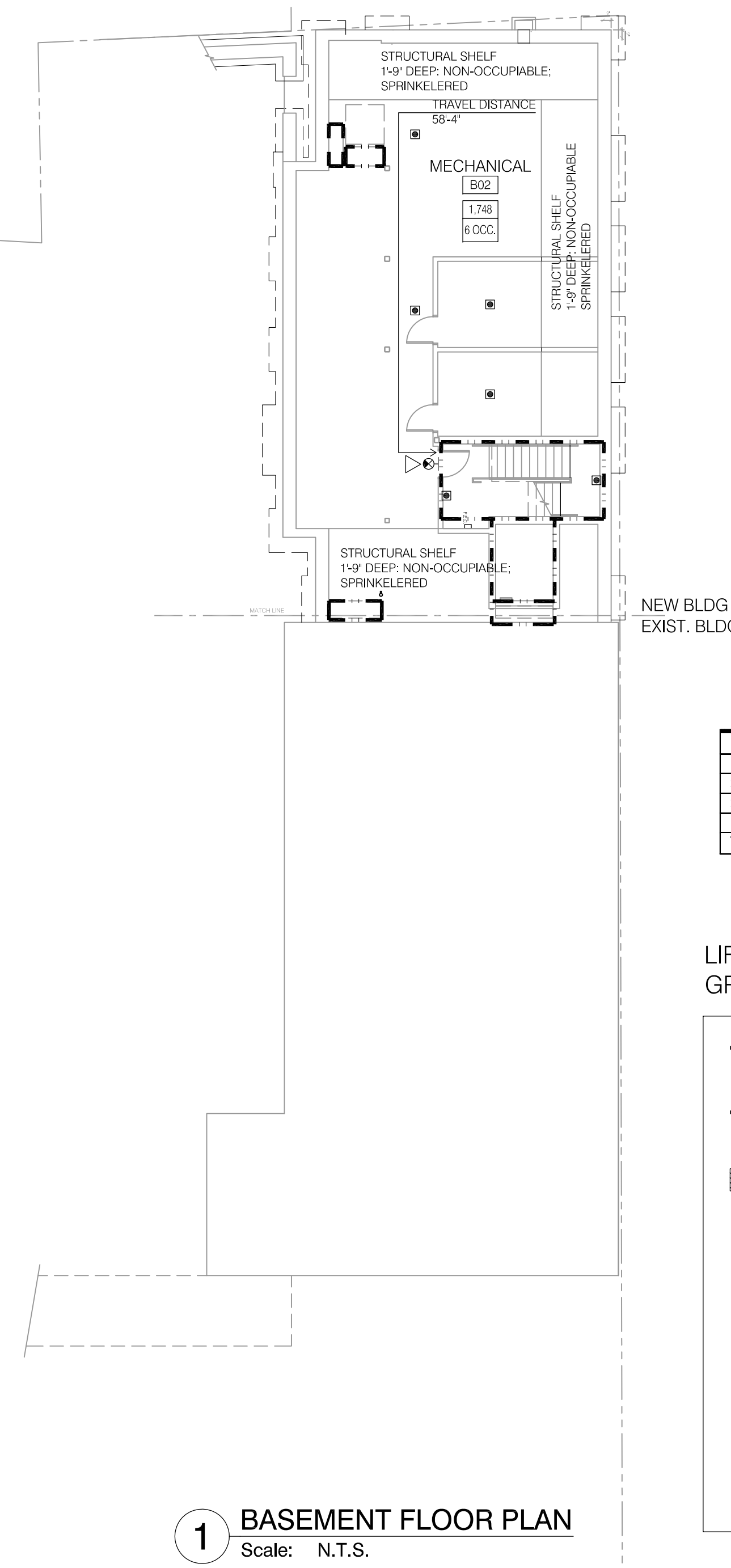
**4** MEZZANINE FLOOR PLAN  
Scale: N.T.S.



**3** FIRST FLOOR PLAN  
Scale: N.T.S.



**2** GARDEN LEVEL FLOOR PLAN  
Scale: N.T.S.



**1** BASEMENT FLOOR PLAN  
Scale: N.T.S.

Maine Historical Society Research Library  
NFPA 101 Code Analysis 08/03/07

3.3.152 Occupancy: The Maine Historical Society Research Library is classified as a Business Occupancy per 3.3.152.3. [Under the IBC the building is classified as Assembly because of its library use, but it is not and will not be used for gatherings of 50 or more persons and therefore is not an Assembly Occupancy under NFPA 101.]

38.1.1.1 (2) Chapter 38, New Business Occupancies, is applicable to the proposed library addition.

38.1.1.1 (3) Chapter 38, New Business Occupancies, is applicable to altered or renovated areas of the existing library building.

38.1.1.1 Addition the existing library shall conform to the code for new construction.

38.1.5.2 Sprinkler system design for Business Occupancy shall be classified as light hazard in accordance with NFPA 13.

38.1.7 Occupant load shall be determined in accordance with Table 7.3.1.2 or the maximum probable population of the space under consideration, whichever is greater.

Table 7.3.1.2 for Business Use indicates 100 gross s.f. per person.

Building areas	Existing Library	Proposed Addition	Total (Exist + Addition)	Occupant Load (by 7.3.1.2)	Probable Use*
Basement	0 gsf	2,342	2,342	24	0
Garden Level	3,019 gsf	2,413	5,432	55	13
1st Floor	2,927 gsf	2,586	5,513	56	67
2nd Floor	2,774 gsf	2,586	5,360	54	28
Total:	8,720 gsf	9,927 gsf	18,647 gsf	189 persons	108 persons

\*Probable use means that every seat at every desk, table at each floor is occupied and includes an additional two persons at the staff-only book collections storage spaces at each floor (garden, first, second).

38.2 Means of egress:

38.2.2.3.1 Stairs shall comply with 7.2.2

7.2.2.2.1(a) Dimensions for new stairs: 44" width, 7" max risers, 11" min treads, 80" min headroom, 144" max height between landings.

7.2.2.2.1(b) Dimensions for existing stairs: existing stairs meet min and max requirements for both Class A and Class B.

38.2.1.4 Floor levels below street floor used for storage, heating and other service equipment and are not subject to business occupancy shall have means of egress in accordance with Ch. 42.

Ch. 42 Storage Occupancies:

42.2.4.1 (2) Number of means of egress: In ordinary occupancies, a single means of egress shall be permitted from any story or section provided common path of travel does not exceed 100 feet.

42.2.5.1 common path of travel = 100 feet when sprinklered

38.2.4 Number of exits: Except for storage occupancy (above), minimum shall be two separate exits accessible from every part of every story, and comply with 7.4.

7.4 Number of means of egress: Per Chapter 12 through 42 requirements, except provide 3 exits for occupant load over 500.

Building areas	Occupant Load (by 7.3.1.2)	Probable Use (see definition above)
Basement	24	0
Garden Level	55	13
1st Floor	56	67
2nd Floor	54	28
Total:	189 persons	108 persons

There are two egress staircases available from each floor: garden, first, and second.

7.4.1.1 There shall not be less than two means of egress from any mezzanine.

The existing mezzanine, which has an area of 562 s.f., and consists of staff-only book collection storage, is served by one rated means of egress has a common path of travel of 61'-3", which is less than the 100 feet as required by 38.2.5.3.1.

38.2.5.3.1 In business use, common path of travel 100 feet when sprinklered.

38.3.4.1 Fire alarm system shall be provided (building two or more stories above exit discharge).

38.3.5 Fire extinguishers shall be provided.

38.3.6.1 Corridors shall have one-hour fire rating (except not required for fully sprinklered building).

Use	S.F. / Occupant	Basmt # S.F.	Garden # S.F.	First # S.F.	Second # S.F.	Penths # S.F.	Total # S.F.	Total Occ.
Mech.	300 gross	1,748	0	0	0	0	555	2
Reading	50 net	0	0	1,448	29	1,448	29	0
Stacks	100 gross	0	0	1,334	14	667	7	0
Storage	300 gross	0	1,687	7	1,234	5	1,234	5
Business	100 gross	0	1,834	19	716	8	716	8
Total		1,748	3,521	26	4,732	56	4,065	49

Table 1004.1.2 from IBC 2003

**LIFE SAFETY GRAPHIC INFORMATION**

- 1-HR RATED WALL PARTITION
- 2-HR RATED WALL PARTITION
- FIRE-RATED FLOOR CONSTRUCTION
- ENTER 2 HR, RATED ENCLOSED STAIR
- EXIT BUILDING
- EXIT ROOM
- PATH OF EXIT TRAVEL
- EMERGENCY LIGHTING (NOTE: FIXTURE TYPE VARIES)

**ROOM NAME USE GROUP**

RM #

S.F.

OCCUPANTS

PLAN NORTH

**CONSULTANTS**

**SCHWARTZ / SILVER ARCHITECTS INC.**  
75 Kneeland Street  
Boston, Massachusetts 02111  
Telephone 617/542-6650  
Facsimile 617/951-0779

**PROJECT**

MAINE HISTORICAL SOCIETY  
489 CONGRESS ST.  
PORTLAND, MAINE

**DATE** 09/13/07

**REVISIONS**

REVISION 01	Date	Drawn By	Reviewed By	Approved By

**DRAWING NUMBER** A0.01

**CODE** N.T.S.

**Scale** N.T.S.