EXTERIOR WALLS (continued)

- ☐ N/A Opening protection *(704.8, 704.12, 704.14)*
- ☐ N/A Vertical fire spread protection *(704.9, 704.10)*
- ☐ Parapets *(704.11)*

FIRE BARRIERS (706)

- ☐ NONE Shaft enclosures *(706.3.1)*
- ☐ NONE Exit enclosures *(706.3.2, 706.3.3)*
- ☐ NONE Horizontal exits *(706.3.4)*
- ☒ NEED Incidental use areas *(706.3.5)*
- ☐ UNSEPARATED MIXED USES Mixed occupancy and fire area separations *(706.3.6, 706.3.7)*

SHAFTS (707)

- ☐ NONE Exceptions *(707.2)*
- ☐ Construction *(707.3 - 707.14)*

OTHER FIRE RESISTANT CONSTRUCTION

- ☐ NONE Fire walls *(705)*
- ☒ ONE SHOWN / HR NEEDED Fire partitions *(708)*
- ☐ N/A Smoke barriers *(709)*
- N/A Smoke partitions *(710)*
- Penetrations *(712)*
- Fire resistant joint systems *(713)*
- Opening protectives *(715)*
- N/A Dampers *(716)*
- Concealed spaces *(717)*
- Thermal and sound-insulating materials *(719)*

INTERIOR FINISHES (Chapter 8) NEED

- Smoke development *(803.1)*
- Flame spread *(803.1)*
- Non-textile finish *(803.2)*
- Floor finish *(804)*
- Decorations and trim *(805)*

FIRE PROTECTION (Chapter 9)

AUTOMATIC SPRINKLER SYSTEMS (903) (Where required) NONE

- Assembly (A-1, A-2, A-3, A-4, A-5) *(903.2.1)*
- Educational (E) *(903.2.2)*
- Factory/Industrial (F-1) *(903.2.3)*
- High-hazard (H-1, H-2, H-3, H-4, H-5) *(903.2.4)*
- Institutional (I-1, I-2, I-3, I-4) *(407.5, 903.2.5)*
- Mercantile (M) *(903.2.6)*
- Residential (R) *(903.2.7)*
- Storage/Repair garage (S-1) *(903.2.8)*
- Parking garages *(903.2.9)*
- Windowless story *(903.2.10.1)*
- Rubbish and linen chutes *(903.2.10.2)*
- Buildings over 55 ft. high *(903.2.10.3)*
- Incidental use areas *(302.1.1)*
- N/A Additional required systems *(Table 903.2.13)*
- International Fire Code *(IFC 903.2.13)*

AUTOMATIC SPRINKLER SYSTEMS* (903) (Design)

- N/A Shop drawings *(106.1.1.1)*
- N/A NFPA 13 system *(903.3.1.1)*
- NFPA 13R system *(903.3.1.2)*
- N/A NFPA 13D system *(903.3.1.3)*
- Quick-response and residential heads *(903.3.2)*
- Actuation *(903.3.4)*
- Water suply *(903.3.5)*
- Hose connections *(903.3.6, 903.3.7)*
- Sprinkler monitoring and alarms *(903.4, 907.13)*

* Also see Fire Code Sprinkler Plan Review Record

ALTERNATIVE AUTOMATIC FIRE-EXTINGUISHING SYSTEMS (904)

- N/A Installation *(904.3)*
- Wet-chemical systems *(904.5)*
- Dry-chemical systems *(904.6)*
- Foam systems *(904.7)*
- Carbon dioxide systems *(904.8)*
- Halon systems *(904.9)*
- Clean-agent systems *(904.10)*
- Commercial cooking systems *(904.2.1, 904.11)*

STANDPIPE SYSTEMS (905)

- N/A Installation standards *(905.2)*
- Building height *(905.3.1)*
- Group A *(905.3.2)*
- Covered malls *(905.3.3)*
- Stages *(905.3.4)*
- Underground buildings *(905.3.5)*
- Helistops/heliports *(905.3.6)*
- Hose connections and locations *(905.1, 905.4, 905.5, 905.6)*
- Cabinets *(905.7)*
- Dry standpipes *(905.8)*
- Valve supervision *(905.9)*

PORTABLE FIRE EXTINGUISHERS (906)

- PER PFD Required locations - IFC *(906.1)*

FIRE ALARM AND DETECTION SYSTEMS (907) (Where required)

- PER PFD Construction documents *(907.1.1)*
- Assembly (A-1, A-2, A-3, A-4, A-5) *(907.2.1)*
- Business (B) *(907.2.2)*
- Educational (E) *(907.2.3)*
- Factory (F-1, F-2) *(907.2.4)*
- High-hazard (H-1, H-2, H-3, H-4, H-5) *(907.2.5)*
- Institutional (I-1, I-2, I-3, I-4) *(907.2.6)*
- Mercantile (M) *(907.2.7)*
- Residential (R-1, R-2) *(907.2.8, 907.2.9)*
- N/A Single/multiple station smoke alarms *(907.2.10)*
- High rise buildings *(907.2.12)*
- Atriums *(907.2.13)*
- Other buildings/areas *(907.2.11, 907.2.14 - 907.2.23)*

FIRE ALARM AND DETECTION SYSTEMS (907) (Design)

- N/A Residential smoke alarm power source *(907.2.10.2)*
- Residential smoke alarm interconnection *(907.2.10.3)*
- Location/Power supply/Wiring *(907.3 - 907.5)*
- Activation/Presignal/Zones *(907.6 - 907.8)*
- Alarm notification appliances *(907.9)*
- Detectors *(907.10 - 907.12)*
- Monitoring *(907.14)*

EMERGENCY ALARM SYSTEMS (908)

- N/A Detection system applicable *(908.1 - 908.6)*

SMOKE CONTROL SYSTEMS (909)

- N/A Where required *(402.9, 404.4, 405.5, 408.8, 410.3.7.2, 1019.1.8, 1024.6.2.1)*
- Design requirements *(909.1 - 909.4)*
- Smoke barriers *(909.5)*
- Pressurization method *(909.6)*
- Airflow method *(909.7)*
- Exhaust method *(909.8)*
- Equipment/Power *(909.10, 909.11)*
- Detection and control *(909.12 - 909.18)*
- Smokeproof enclosures *(909.20)*
- Underground buildings *(909.21)*

SMOKE AND HEAT VENTS (910)

- N/A Requirements *(910.1 - 910.3)*
- Mechanical alternative *(910.4)*

FIRE COMMAND CENTER (911)

- N/A Features *(911.1)*

CASE 2 — MIXED OCCUPANCY SEPARATED USES (302.3.2)

Using Table 503, identify the allowable height and area of each of the separated uses within the building. Construction types that provide, for each story of the building, tabular areas (as modified by Section 506)which result in a sum of the ratios of 1.00 or less and allowable heights (as modified by Section 504) equal to or greater than the actual height of the use are permitted.

Story	Group	Actual floor area	Adjusted floor area*	Actual height	Allowable height
		____ ft²	____ ft²	____ ft ____ stories	____ ft ____ stories
		____ ft²	____ ft²	____ ft ____ stories	____ ft ____ stories
		____ ft²	____ ft²	____ ft ____ stories	____ ft ____ stories
		____ ft²	____ ft²	____ ft ____ stories	____ ft ____ stories
		____ ft²	____ ft²	____ ft ____ stories	____ ft ____ stories
		____ ft²	____ ft²	____ ft ____ stories	____ ft ____ stories
		____ ft²	____ ft²	____ ft ____ stories	____ ft ____ stories

$$\Sigma \frac{\text{Adjusted floor area *}}{\text{Allow. tab. area, } A_t \text{ (Table 503)}} = ___ + ___ + ___ + ___ = ___ \leq 1.00$$

*Adjusted floor area = actual floor area ÷ conversion factor

CHECK ALLOWABLE AREA (506.4)

Allowable area per floor (A_a)

____ (conversion factor) × ____ (tabular area (Table 503)) = ____ ft² Permitted types of construction ____

Total floor area (all stories) ____ ft² Type of construction assumed for review (602.1.1) ____

Allowable floor area (all stories)

____ (Allowable area per floor (A_a)) × ____ (number of stories (maximum 3)) = ____ ft² Compliance verified (Mixed Occ. Separated) ____

MEZZANINES (505)

10%/11 % Area limitation (505.2) ____ Openness (505.4)

____ Egress (505.3) STORAGE ~~Equipment platforms (503.5)~~

UNLIMITED AREA BUILDINGS (507)

____ Unsprinklered, one story (507.1) ____ High-hazard use groups (507.6)

____ Sprinklered, one story (507.2) ____ Aircraft paint hangar (507.7)

____ Two story (507.3) ____ Group E buildings (507.8)

____ Reduced open space (507.4) ____ Motion picture theaters (507.9)

____ Group A-3 buildings (507.5)

SPECIAL PROVISIONS (508)

____ Special condition applicable (508.1) ____ Compliance verified

SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY (Chapter 4)

COVERED MALL BUILDINGS (402)

____ Egress (402.4, 402.11) ____ Standpipe system (402.8.1)

____ Mall width (402.5) ____ Smoke control (402.9)

____ Unlimited area (402.6) ____ Kiosk requirements (402.10)

____ Fire separations (402.7) ____ Emergency voice/alarm (402.12, 402.13)

____ Automatic sprinkler system (402.8) ____ Plastic signs (402.14)

____ Fire department access (402.15)

MEANS OF EGRESS (continued)

GENERAL MEANS OF EGRESS

✓ Design requirements (1003.2 - 1003.7)

✓ Means of egress illumination (1006)

✓ Exit signs (1011)

N/A Accessible means of egress (1007)

OK Means of egress doors (1008.1-1008.1.2)

N/A Special doors/Gates/Turnstiles (1008.1.3, 1008.2, 1008.3)

AT GRADE Door landings/Thresholds/Arrangement (1008.1.4 -1008.1.7)

✓ Door hardware (1008.1.8, 1008.1.9)

SPIRALS ON MEZZANINE Stairways (1009)

NEED DETAILS Handrails (1009.11)

NONE Roof access (1009.12)

N/A Ramps (1010)

NEED DETAILS Guards (1012)

EXIT ACCESS

✓ Door number and arrangement (1013.2, 1014.1, 1014.2)

✓ Exit access travel distance (1013.3, 1015.1)

N/A Aisles (1013.4)

N/A Egress balconies (1013.5, 1015.3)

N/A Corridors (1016)

N/A Air movement in corridors (1016.4)

EXITS / EXIT DISCHARGE

✓ Exits/Exit doors (1017, 1018)

SPIRAL FROM MEZZANINES Interior exit stairways (1019)

✓ Exit passageways (1020)

N/A Horizontal exits (1021)

NONE Exterior exit ramps/stairways (1022)

N/A Exit discharge (1023)

OTHER MEANS OF EGRESS

____ Miscellaneous egress requirements (1014.3 - 1014.6)

____ Bleachers (1024.1.1)

____ Assembly exits & egress (1024.2 - 1024.5)

____ Assembly aisles & features (1024.6 -1024.15)

____ Emergency escape and rescue (1025)

ACCESSIBILITY* (Chapter 11)

CERTIFIED BY DESIGNER

____ Scoping requirements (1103)

____ Accessible route (1104)

____ Accessible entrances (1105)

____ Parking and passenger loading (1106)

____ Dwelling units and sleeping units (1107)

____ Special occupancies (1108)

____ Features and facilities (1109)

____ Signage (1110)

*Also see Accessibility Plan Review Record

CORRECTION LIST (cont'd.)		
No.	DESCRIPTION	Code Section

DESIGN LOADS (continued) SEE SO

Wind loads *(1603.1.4, 1609)*

- ____ Design option utilized *(1609.1.1, 1609.6)*
- ____ Basic wind speed *(1609.3)*
- ____ Building category and wind importance factor, I_w *(Table 1604.5, 1609.5)*
- ____ Wind exposure category *(1609.4)*
- ____ Internal pressure coefficient *(ASCE 7)*
- ____ Component and cladding pressures *(1609.1.1, 1609.6.2.2)*
- ____ Main force wind pressures *(1609.1.1, 1609.6.2.1)*

Earthquake design data *(1603.1.5, 1614 - 1623)*

- ____ Design option utilized *(1614.1)*
- ____ Seismic use group ("Category") *(Table 1604.5, 1616.2)*
- ____ Spectral response coefficients, S_{DS} & S_{D1} *(1615.1)*
- ____ Site class *(1615.1.5)*
- ____ Seismic design category *(1616.3)*
- ____ Basic seismic-force-resisting system *(Table 1617.6.2)*
- ____ Response modification coefficient, *R*, and deflection amplification factor, C_d *(Table 1617.6.2)*
- ____ Analysis procedure *(1616.6, 1617.5)*
- ____ Design base shear *(1617.4, 1617.5.1)*

Flood loads *(1603.1.6, 1612)*

- ____ Flood hazard area *(1612.3)*
- ____ Elevation of structure

Other loads

- ____ Concentrated loads *(1607.4)*
- ____ Partition loads *(1607.5)*
- ____ Impact loads *(1607.8)*
- ____ Misc. loads *(Table 1607.6, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)*

QUALITY ASSURANCE (Chapter 17)

- ____ Approvals/Research report(s) *(1703, 1703.4.2)* Report No.____
- ____ Owner's special inspection program specified *(1704.1.1)*
- ____ Prefabricated items *(1704.2)*
- ____ Steel construction *(1704.3)*
- ____ Concrete construction *(1704.4)*
- N/A Masonry construction *(1704.5)*
- N/A Wood construction *(1704.6)*
- ____ Prepared fill and foundations *(1704.7, 1704.8, 1704.9)*
- N/A Wall panels and veneers/EIFS *(1704.10, 1704.12)*
- N/A Sprayed fire-resistant materials *(1704.11)*
- ____ Quality assurance plan - Seismic/Wind *(1705, 1706)*
- ____ Seismic resistance *(1707)*
- ____ Structural testing/Observations (seismic) *(1708, 1709)*
- ____ Testing (other) *(1710 - 1715)*

SOILS AND FOUNDATIONS (Chapter 18)

- ____ Soils investigations/Reports *(1802.1, 1802.6)*
- ____ Soil classification *(1802.3)*
- ____ Excavation, grading and fill *(1803)*
- ____ Load-bearing values *(1804)*
- ____ Footings and foundations *(1805)*
- N/A Retaining walls *(1806)*
- ____ Dampproofing and waterproofing *(1807)*
- ____ Foundations (other types) *(1808 - 1812)*

CORRECTION LIST (cont'd.)		
No.	DESCRIPTION	Code Section

NONSTRUCTURAL MATERIALS (Chapters 24, 25, 26)

GLASS AND GLAZING (Chapter 24)

N/A Sloped glazing and skylights *(2405)*

Safety glazing *(2406, 2407, 2408, 2409)*

GYPSUM BOARD AND PLASTER (Chapter 25)

✓ Gypsum board materials *(2506, Table 2506.2)*

N/A Plaster *(2507, 2508, 2510 - 2513)*

PLASTIC (Chapter 26)

FOAM PLASTIC INSULATION (2603)

N/A Labeling *(2603.2, 2603.5.6)*

N/A Surface-burning characteristics *(2603.3, 2603.5.4)*

N/A Thermal barrier *(2603.4)*

N/A Exterior walls/Roofs *(2603.5, 2603.6)*

Special approval *(2603.8)*

MISCELLANEOUS PLASTICS

N/A Interior finish and trim *(2604)*

N/A Plastic veneer *(2605)*

N/A Light-transmitting plastics *(2606 - 2611)*

BUILDING SERVICES* (Chapters 27, 28, 29, 30)

ELEVATORS AND CONVEYING SYSTEMS (Chapter 30)

Construction standard specified *(3001.2)*

N/A Hoistway enclosures *(3002)*

N/A Opening protectives *(3002.1.1)*

Emergency operations *(3003)*

Hoistway venting *(3004)*

N/A Conveying systems *(3005)*

N/A Machine rooms *(3006)*

* Also see Electrical (Ch.27), Mechanical (Ch.28) and Plumbing (Ch.29) Plan Review Records

SPECIAL DEVICES AND CONDITIONS (Chapters 31, 34)

SPECIAL CONSTRUCTION (Chapter 31)

N/A Membrane structures *(3102)*

N/A Awnings and canopies/Marquees *(3105, 3106)*

N/A Signs *(3107)*

N/A Radio and television towers *(3108)*

N/A Swimming pool enclosures *(3109)*

PEDESTRIAN WALKWAYS AND TUNNELS (3104)

N/A Construction and use *(3104.3, 3104.4)*

N/A Separation *(3104.5, 3104.10)*

N/A Public way *(3104.6)*

N/A Egress/Ventilation *(3104.7 - 3104.9, 3104.11)*

EXISTING STRUCTURES (Chapter 34)

N/A Additions, alterations, repairs *(3403)*

N/A Fire escapes *(3404)*

N/A Change of occupancy *(3406)*

N/A Accessibility *(3409)*

N/A Compliance alternatives *(3410)*