

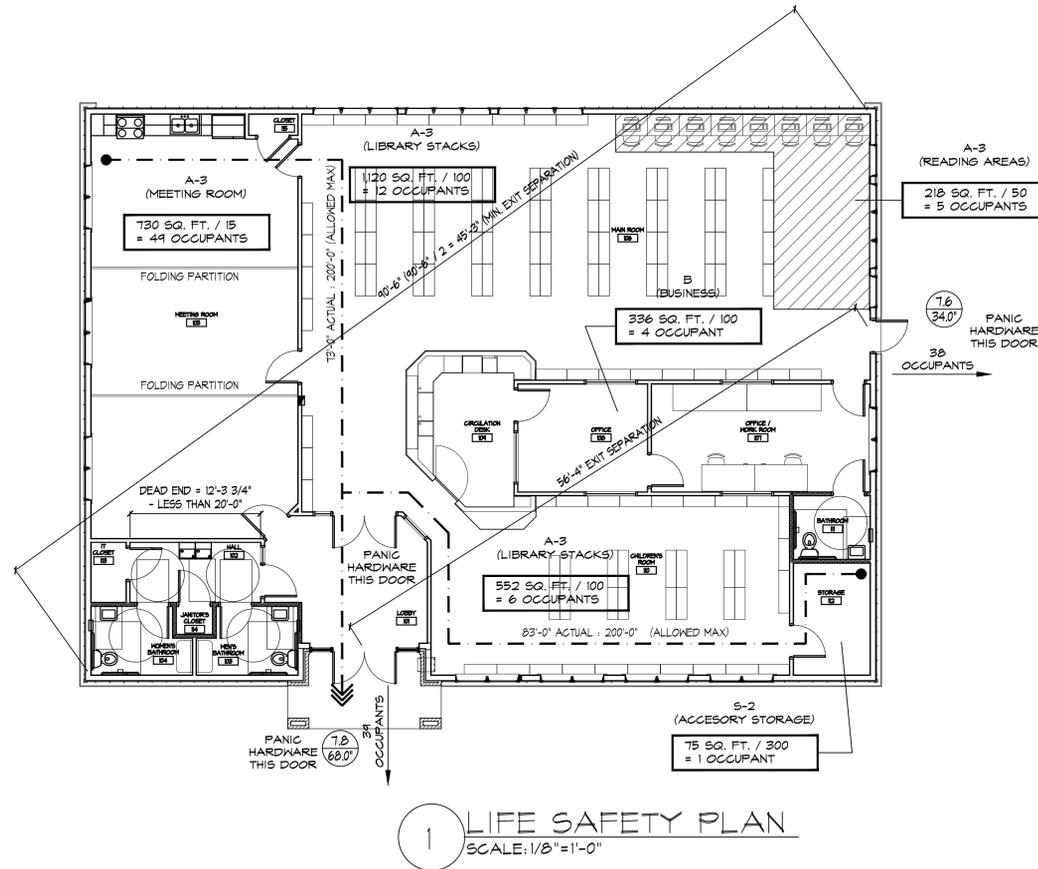
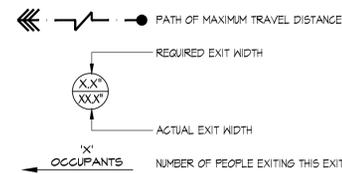
NEW SOUTHEASTERN LIBRARY FOR RUTHERFORD COUNTY North Carolina



1300 South Mint Street, Suite 300, Charlotte, NC 28203
 Email: esd@esdarch.com • Fax: 704-373-0902 • Phone: 704-373-1900

P:\2014\14-190-000 Henrietta EMS and Library\Library\CD's\Shawns Work\A-0.0, A-0.1.dwg, Plotted By: mpatterson, Plotted: Jan 09, 2015 - 6:51pm

LEGEND - LIFE SAFETY PLAN



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

ABBREVIATIONS

| | | | |
|---------------------------------------|------------------------------------|---|---------------------------------|
| ACT = ACOUSTICAL CEILING TILE | EXIST. = EXISTING | MIN. = MINIMUM | T.O.P. = TOP OF PARAPET |
| ADA = AMERICANS WITH DISABILITIES ACT | EXIST'G = EXISTING | M.O. = MASONRY OPENING | T.O.R. = TOP OF ROOF |
| ADJ. = ADJUSTABLE | EXP. = EXPANSION | MTD. = MOUNTED | T.O.S. = TOP OF STEEL |
| A.F.F. = ABOVE FINISHED FLOOR | EXT. = EXTERIOR | N. = NORTH | T.O.W. = TOP OF WALL |
| ALUM. = ALUMINUM | F.A. = FIRE ALARM | N.I.C. = NOT IN CONTRACT | TR. = TRIPLE |
| B.E. = BANK EQUIPMENT | F.D. = FLOOR DRAIN | N/A. = NOT APPLICABLE | TY. = TYPICAL |
| BLDG. = BUILDING | F.E. = FIRE EXTINGUISHER | NR. = NOT RATED | V.C.T. = VINYL COMPOSITION TILE |
| C.B. = CATCH BASIN | F.E.C. = FIRE EXTINGUISHER CABINET | O.D. = OUTSIDE DIAMETER | VERT. = VERTICAL |
| C.E. = CEMENT | F.F. = FINISHED FLOOR | O.C. = ON CENTER | V.I.F. = VERIFY IN FIELD |
| C.T. = CERAMIC TILE | FIN. = FINISH | OPP. = OPPOSITE | V.O.N. = UNLESS OTHERWISE NOTED |
| C.L.R. = CLEAR | FL. = FLOOR | O.H. = OPPOSITE HAND | U.N.O. = UNLESS NOTED OTHERWISE |
| C.L.G. = CEILING | FLR. = FLOOR | P. = PLATE | W. = WITH |
| COL. = COLUMN | FLUOR. = FLUORESCENT | PL. = PLUMBING | W/O. = WITHOUT |
| CONC. = CONCRETE | F.O.F. = FACE OF FINISH | P-LAM. = PLASTIC LAMINATE | W.C. = WATER CLOSET |
| CONT. = CONTINUOUS | F.O.S. = FACE OF STUD | PR. = PAIR | WD. = WOOD |
| CMU. = CONCRETE MASONRY UNIT | FOM. = FACE OF MASONRY | P.T. = PRESSURE TREATED | W.H. = WATER HEATER |
| CPT. = CARPET | FT. = FOOT | P.T.F.R. = PRESSURE TREATED, FIRE RETARDANT | WP. = WATERPROOF |
| DIA. = DIAMETER | FTG. = FOOTING | R. = RADIUS | WR. = WATER RESISTANT |
| D.B. = DOOR BELL | FURR. = FURRING | R.D. = ROOF DRAIN | WT. = WEIGHT |
| D.F. = DRINKING FOUNTAIN | FUT. = FUTURE | REF. = REFRIGERATOR | |
| DBL. = DOUBLE | GA. = GAUGE | REQ. = REQUIRED/REQUIREMENT | |
| DEM. = DEMOLITION | GALV. = GALVANIZED | R.M. = ROOM | |
| DIM. = DIMENSION | G.B. = GRAB BAR | R.O. = ROUGH OPENING | |
| DISP. = DISPENSER | GL. = GLASS/GLAZING | SIM. = SIMILAR | |
| DN. = DOWN | GND. = GROUND | SPEC. = SPECIFICATION | |
| D.O. = DOOR OPENING | GYP. BD. = GYPSUM BOARD | STC. = SOUND TRANSMISSION CLASS | |
| DR. = DOOR | GR. = GROUT | STL. = STEEL | |
| DS. = DOWN SPOUT | H.C. = HOLLOW CORE | STOR. = STORAGE | |
| DTL. = DETAIL | H.M. = HOLLOW METAL | S.S. = STAINLESS STEEL | |
| DWG. = DRAWING | HDR. = HARDWARE | SUSP. = SUSPENDED | |
| EA. = EACH | HORIZ. = HORIZONTAL | | |
| E.J. = EXPANSION JOINT | I.D. = INSIDE DIAMETER | | |
| ELEC. = ELECTRICAL | INSUL. = INSULATION | | |
| ELEV. = ELEVATOR | INT. = INTERIOR | | |
| EMER. = EMERGENCY | JAN. = JANITOR | | |
| EQ. = EQUAL/EQUIDISTANT | JT. = JOINT | | |
| E.W.C. = ELECTRIC WATER COOLER | LAV. = LAVATORY | | |
| | MTL. = METAL | | |
| | MFR. = MANUFACTURE/MANUFACTURER | | |

VICINITY MAP



SHEET INDEX:

| | | |
|--|--|-------------------------------|
| GENERAL | ARCHITECTURAL | PLUMBING |
| A-0.0 COVER | A-1.1 FLOOR PLAN | P-1 NOTES AND SCHEDULES |
| A-0.1 BUILDING CODE SUMMARY | A-1.2 REFLECTED CEILING PLAN | P-2 PLUMBING PLAN |
| | A-1.3 ROOF PLAN | |
| | A-1.4 ENLARGED ADA PLAN DETAILS | |
| CIVIL/SITE | | MECHANICAL |
| C1 SITE PLAN | A-2.1 DOOR, WINDOW, & FINISH SCHEDULES | M-1 NOTES AND SCHEDULES |
| | A-3.1 EXTERIOR ELEVATIONS | M-2 MECHANICAL PLANS |
| | A-3.2 EXTERIOR ELEVATIONS | M-3 DETAILS |
| STRUCTURAL | | ELECTRICAL |
| S-0.0 GENERAL NOTES AND SPECIFICATIONS | A-4.1 BUILDING SECTIONS | E-1 SYMBOLS AND SCHEDULES |
| S-1.0 FOUNDATION PLAN | A-4.2 WALL SECTIONS | E-2 LIGHTING PLAN |
| S-1.1 ROOF FRAMING PLAN | A-4.3 WALL SECTIONS | E-3 POWER PLAN |
| S-2.0 CONSTRUCTION DETAILS | A-4.4 WALL SECTIONS | E-4 PANELS AND RISER DIAGRAMS |
| | A-4.5 WALL SECTIONS | |
| | A-4.6 ALTERNATE 1 SECTIONS AND DETAILS | |
| | A-1.1 CASEWORK | |
| | A-1.2 CASEWORK | |

SOUTHEASTERN LIBRARY
NEW SOUTHEASTERN LIBRARY
FOR
RUTHERFORD COUNTY

ISSUE DATE: **1-6-15**
 REVISION 1: --
 REVISION 2: --
 REVISION 3: --
 REVISION 4: --

PROJECT #: **14-190-000**
 CONTENT: **COVER**
 SHEET INDEX

PROJECT ARCHITECT: --
 DRAWN BY: **SJP**

CADD FILE NAME: **a-0.0, a-0.1.dwg**

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Sheet
A-0.0



Envelope Compliance Certificate

2012 North Carolina Energy Conservation Code

Section 1: Project Information

Project Type: **New Construction**
Project Title: _____
Construction Site: _____ Owner/Agent: _____ Designer/Contractor: _____

Section 2: General Information

Building Location (for weather data): **Rutherford, North Carolina**
Climate Zone: **4a**
Building Space Conditioning Type(s): **Nonresidential**
Vertical Glazing / Wall Area Pct.: **24%**
Building Type: **Library (Library)**
Floor Area: **3968**

Section 3: Requirements Checklist

Envelope PASSES: Design 0.1% better than code

Climate-Specific Requirements:

| Component Name/Description | Gross Area or Perimeter | Cavity R-Value | Cont. R-Value | Proposed U-Factor | Budget U-Factor ^(a) |
|--|-------------------------|----------------|---------------|-------------------|--------------------------------|
| Roof 1: Attic Roof with Wood Joists | 3968 | 42.0 | 0.0 | 0.024 | 0.021 |
| Exterior Wall 1: Wood-Frame, 16" o.c. | 2496 | 21.0 | 5.0 | 0.045 | 0.051 |
| Window 2: Wood Frame, Perf. Type Other Testing Cert. Product ID: J64-Wyn, SHGC 0.33, PF 0.29 (c) | 480 | --- | --- | 0.270 | 0.320 |
| Door 2: Glass (> 50% glazing) Metal Frame, Entrance Door, Perf. Type Other Testing Cert. Product ID: Kawneer, SHGC 0.33, PF 0.29 (c) | 116 | --- | --- | 0.300 | 0.770 |

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Other components require supporting documentation for proposed U-factors.
(c) Fenestrations product performance must be certified in accordance with NFRC and requires supporting documentation.

Air Leakage, Component Certification, and Vapor Retarder Requirements:

- 1. All joints and penetrations are caulked, gasketed or covered with a moisture vapor-permeable wrapping material installed in accordance with the manufacturer's installation instructions.
- 2. Windows, doors, and skylights certified as meeting leakage requirements.
- 3. Component R-values & U-factors labeled as certified.
- 4. No roof insulation is installed on a suspended ceiling with removable ceiling panels.
- 5. Other components have supporting documentation for proposed U-factors.
- 6. Insulation installed according to manufacturer's instructions, in substantial contact with the surface being insulated, and in a manner that achieves the rated R-value without compressing the insulation.
- 7. Shaft vents serving stairs and elevators integral to the building envelope are equipped with motorized dampers.

Exceptions:
 Buildings without fire alarm system.

Project Title: _____ Data filename: **Untitled.cck** Report date: 01/09/15 Page 1 of 2

- 8. Stairway vents open to the exterior.
 - 9. Cargo doors and loading dock doors are weather sealed.
 - 10. Recessed lighting fixtures installed in the building envelope are Type IC rated, as meeting ASTM E263, are sealed with gasket or caulk.
 - 11. Building entrance doors have a vestibule equipped with self-closing devices.
- Exceptions:
 Building entrances with revolving doors.
 Doors not intended to be used as a building entrance.
 Doors that open directly from a space less than 3000 sq. ft. in area.
 Doors opening directly from a sleeping/dwelling unit.
 Buildings less than four stories above grade and less than 10,000 sq. ft. in area.

Additional Efficiency Package Requirements:
 The high efficiency HVAC option has been selected as the additional efficiency package required by this energy code. Systems that do not meet the performance requirement will be identified in the mechanical requirements checklist report.

Section 4: Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed envelope system has been designed to meet the 2012 North Carolina Energy Conservation Code requirements in COMcheck Version 3.9.4 and to comply with the mandatory requirements in the Requirements Checklist.

Mark B. Patterson
Name Title: _____
Signature: _____
Date: 1/6/15

Project Title: _____ Data filename: **Untitled.cck** Report date: 01/09/15 Page 2 of 2

2012 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: **NEW SOUTHEASTERN LIBRARY FOR RUTHERFORD COUNTY NORTH CAROLINA**
Address: **US HIGHWAY 221 ALT., Zip Code 28134**
Proposed Use: **LIBRARY**
Owner or Authorized Agent: **DANNY SEARCY** Phone # **828.281.6300** E-Mail **rutherfordcountync.gov**
Owned By: City/County Private State
Code Enforcement Jurisdiction: City County **RUTHERFORD** State

LEAD DESIGN PROFESSIONAL: **MARK B. PATTERSON**

| DESIGNER | FIRM | NAME | LICENSE # | TELEPHONE # | E-MAIL |
|--------------------------|-----------------------|---------------------|-----------|----------------|-------------------------------|
| Architectural | ESD ARCHITECTURE | MARK B. PATTERSON | 6062 | (104) 373-1900 | mpatterson@esdarch.com |
| Civil | ODOM 4 ASSOCIATES | DAVID ODOM | 2136 | (828) 241-4445 | avodome@odomengr.com |
| Electrical | SABER ENGINEERING | RICHARD D. MORRISON | --- | (104) 373-0066 | rdm@saberengineering.com |
| Fire Alarm | SABER ENGINEERING | JAMES A. TRIBBLE | --- | (104) 373-0066 | jtribble@saberengineering.com |
| Plumbing | SABER ENGINEERING | JAMES A. TRIBBLE | --- | (104) 373-0066 | jtribble@saberengineering.com |
| Mechanical | SABER ENGINEERING | JAMES A. TRIBBLE | --- | (104) 373-0066 | jtribble@saberengineering.com |
| Sprinkler- Standpipe | --- | --- | --- | () | () |
| Structural | SOLID ROCK STRUCTURAL | SCOTT NESTMORELAND | 21444 | (104) 818-6415 | info@solidrockstructural.com |
| Retaining Walls >5' High | --- | --- | --- | () | () |
| Other | --- | --- | --- | () | () |

2012 EDITION OF NC CODE FOR: New Construction Addition Upfit
EXISTING: Reconstruction Alteration Repair Renovation
CONSTRUCTED (date): _____ ORIGINAL USE(S) (Ch. 3): _____
RENOVATED (date): _____ CURRENT USE(S) (Ch. 3): _____
PROPOSED USE(S) (Ch. 3): _____

BUILDING DATA
Construction Type: I-A I-B II-A II-B III-A III-B IV V-A V-B

Mixed construction: No Yes III-B

Sprinklers: No Partial Yes NFPA 13R NFPA 13D

Standpipes: No Yes Class I II III Wet Dry

Fire District: No Yes Flood Hazard Area: No Yes

Building Height: **28** Feet Number of Stories: _____

Mezzanine: No Yes

Ground Building Area: _____

| FLOOR | EXISTING (SQ FT) | NEW (SQ FT) | SUB-TOTAL |
|-------------------|------------------|-------------|-----------|
| 5th Floor | --- | --- | --- |
| 4th Floor | --- | --- | --- |
| 3rd Floor | --- | --- | --- |
| 2nd Floor | --- | --- | --- |
| 1st Floor | --- | 4206 | 4206 |
| Drive-Thru Canopy | --- | --- | --- |
| TOTAL | --- | 4206 | 4206 |

OCCUPANCY REQUIREMENTS

| FLOOR, ROOM OR SPACE DESIGNATION | OCCUPANCY | AREA/OCCUPANT | SQUARE FOOTAGE | NUMBER OF OCCUPANTS |
|----------------------------------|-------------|---------------|----------------|---------------------|
| MAIN STACKS | A-3 LIBRARY | 100 GROSS | 120 | 12 |
| READING AREA | A-3 LIBRARY | 50 GROSS | 210 | 5 |
| CHILDRENS STACKS | A-3 LIBRARY | 100 GROSS | 552 | 6 |
| MEETING ROOM | A-3 LIBRARY | 5 GROSS | 120 | 44 |
| OFFICES | B-2 OFFICES | 100 GROSS | 336 | 4 |
| TOTAL NUMBER OF OCCUPANTS: | | | | 76 |

EXIT REQUIREMENTS NUMBER AND ARRANGEMENT OF EXITS

| FLOOR, ROOM OR SPACE DESIGNATION | MINIMUM # NUMBER OF EXITS | | TRAVEL DISTANCE | | ARRANGEMENT MEANS OF EGRESS ¹⁾ (SECTION 1014.2) | |
|----------------------------------|---------------------------|----------------|--|---------------------------------------|--|--------------------------------|
| | REQUIRED | SHOWN ON PLANS | ALLOWABLE TRAVEL DISTANCE (TABLE 1015.1) | ACTUAL TRAVEL DISTANCE SHOWN ON PLANS | REQUIRED MIN. DISTANCE BETWEEN EXIT DOORS | ACTUAL DISTANCE SHOWN ON PLANS |
| BUILDING | 2 | 2 | 200 | 83'-0" | 45'-3" | 56'-4" |
| --- | --- | --- | --- | --- | --- | --- |
| --- | --- | --- | --- | --- | --- | --- |
| --- | --- | --- | --- | --- | --- | --- |

¹ Corridor dead ends (Section 1018.4)
² Single exits (Table 1021.2), Spaces with one means of egress (Table 1015.1)
³ Common Path of Travel (Section 1014.3)

EXIT WIDTH

| USE GROUP OR SPACE DESCRIPTION | AREA | | CALCULATED OCCUPANT LOAD (TABLE 1004.1.1) | | EGRESS WIDTH PER OCCUPANT (TABLE 1005.1) | | REQUIRED WIDTH (SECTION 1005.1) | | ACTUAL WIDTH SHOWN ON PLANS | |
|--------------------------------|------|---------|---|-----|--|-------|---------------------------------|-------|-----------------------------|-------|
| | (a) | (b) | (a) | (b) | STAIR | LEVEL | STAIR | LEVEL | STAIR | LEVEL |
| MAIN STACKS | 120 | 120/100 | 12 | N/A | 0.2 | N/A | 2.4 | N/A | 102 | 102 |
| READING AREA | 210 | 210/50 | 5 | N/A | 0.2 | N/A | 1.0 | N/A | 12 | 12 |
| CHILDRENS STACKS | 552 | 552/100 | 6 | N/A | 0.2 | N/A | 1.2 | N/A | 48 | 48 |
| MEETING ROOM | 120 | 120/15 | 44 | N/A | 0.2 | N/A | 8.8 | N/A | 34 | 34 |
| OFFICES | 336 | 336/100 | 4 | N/A | 0.2 | N/A | 0.8 | N/A | 34 | 34 |

¹ See Table 1004.1.1 to determine whether net or gross area is applicable.
² See definition "Area, Gross" and "Area, Net" (Section 1002)
³ Minimum stairway width (Section 1009.1); min. corridor width (Section 1018.2); min. door width (Section 1008.1.1)
⁴ Minimum width of exit passageway (Section 1023.2)
⁵ The loss of one means of egress shall not reduce the availability capacity to less than 50 percent of the total required. (Section 1005.1)
⁶ Assembly occupancies (Section 1028)

ALLOWABLE AREA

Occupancy: A-1 A-2 A-3 A-4 A-5

Assembly Business: A-2

Educational: E-1 Moderate E-2 Low

Factory: F-1 Moderate F-2 Low

Hazardous: H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM

Institutional: I-1 I-2 I-3 I-4

I-3 Condition: 1 2 3 4 5

Mercantile: M-1 M-2 M-3 M-4

Residential: R-1 R-2 R-3 R-4

Storage: S-1 Moderate S-2 Low High-piled

Parking Garage: open Enclosed Repair Garage

Utility and Miscellaneous:

Accessory Occupancies:
Assembly: A-1 A-2 A-3 A-4 A-5
Business: B-1
Educational: E-1 Moderate E-2 Low
Factory: F-1 Moderate F-2 Low
Hazardous: H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
Institutional: I-1 I-2 I-3 I-4
I-3 Condition: 1 2 3 4 5
Mercantile: M-1 M-2 M-3 M-4
Residential: R-1 R-2 R-3 R-4
Storage: S-1 Moderate S-2 Low High-piled
Parking Garage: open Enclosed Repair Garage
Utility and Miscellaneous:

Incidental Uses (Table 508.2.2):
 Furnace room where any piece of equipment is over 400,000 Btu per hour input
 Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower
 Refrigerant machine room
 Hydrogen cutoff rooms, not classified as Group H
 Incinerator rooms
 Paint shops, not classified as Group H, located in occupancies other than Group F
 Laboratories and vocational shops, not classified as Group H, located in a Group E or I-2 occupancy
 Group I-2 waste and linen collection rooms
 Waste and linen collection rooms over 100 square feet
 Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons, or a lithium-ion capacity of 1,000 pounds used for facility standby power, emergency power, or uninterruptible power supplies
 Rooms containing fire pumps
 Group I-2 storage rooms over 100 square feet
 Group I-2 commercial kitchens
 Group I-2 handies equal to or less than 100 square feet
 Group I-2 rooms or spaces that contain fuel-fired heating equipment

Special Uses: 402 403 404 405 406 407 408 409 410 411 412
 413 414 415 416 417 418 419 420 421 422 423 424
 425 426 427

Special Provisions: 509.2 509.3 509.4 509.5 509.6 509.7 509.8

Mixed Occupancy: No Yes Separation: **0** Hr. Exception: _____

Incidental Use Separation (508.2)
This separation is not exempt as Non-Separated Use (see exemptions).
 Non-Separated Mixed Occupancy (508.3.2)
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
 Separated Use (508.4) - See below for area calculations
For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

Actual Area of Occupancy A + Actual Area of Occupancy B
Allowable Area of Occupancy A + Allowable Area of Occupancy B <= 1

--- + --- = --- <= 1.00

ACCESSIBLE DWELLING UNITS (SECTION 1107)

| STORY NO. | DESCRIPTION AND USE | (A) BLDG AREA PERmitted (ACTUAL) | (B) TABLE 503.4 AREA | (C) AREA FOR OPEN SPACE INCREASE 1 | (D) AREA FOR SPRINKLER INCREASE 1 | (E) AREA FOR SPRINKLER INCREASE 2 | (F) ALLOWABLE AREA UNLIMITED 1 | (G) MAXIMUM BUILDING AREA 4 |
|-----------|---------------------|----------------------------------|----------------------|------------------------------------|-----------------------------------|-----------------------------------|--------------------------------|-----------------------------|
| 1 | LIBRARY (A-3) | 4206 | 6200 | N/A | N/A | N/A | N/A | N/A |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TOTAL | --- | --- | --- | --- | --- | --- | --- | --- |

ACCESSIBLE PARKING (SECTION 1106)

| LOT OR PARKING AREA | TOTAL # OF PARKING SPACES REQUIRED | PROVIDED | # OF ACCESSIBLE SPACES PROVIDED | TOTAL # ACCESSIBLE PROVIDED |
|---------------------|------------------------------------|----------|---------------------------------|-----------------------------|
| PARKING | --- | IT | 1 | 2 |
| --- | --- | --- | --- | --- |
| TOTAL | --- | --- | --- | --- |

Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = --- (F)
b. Total Building Perimeter = --- (P)
c. Ratio (F/P) = --- (F/P)
d. W = Minimum width of public way = --- (W)
e. Percent of frontage increase I = 100 | F/P - 0.25 | x W/30 = --- (%)
¹ The sprinkler increase per Section 506.3 is as follows:
a. Multi-story building I = 200 percent
b. Single-story building I = 300 percent
² Unlimited area applicable under conditions of Section 507
Group A motion picture (507.10); Malls (402.6); and H-2 aircraft paint hangers (507.8).
Maximum Building Area = total number of stories in the building x E (506.4)
³ The maximum area of open parking garages must comply with 406.3.5. The maximum area of air traffic control towers must comply with 412.1.2

ALLOWABLE HEIGHT

| ALLOWABLE (TABLE 503) | INCREASE FOR SPINNERS | SHOWN ON PLANS | CODE REFERENCE |
|----------------------------|-----------------------|---------------------|----------------|
| Type of Construction | Type | Type | Y-B |
| Building Height in Feet | Feet 40' | Feet = H + 20 = N/A | Feet 28'-0" |
| Building Height in Stories | Stories 1 | Stories = 1 + N/A | Stories 1 |

FIRE PROTECTION REQUIREMENTS

| BUILDING ELEMENT | FIRE SEPARATION (FEET) | RATING | | DETAILS AND SHEET # | DESIGN # FOR RATED ASSEMBLY | DESIGN # FOR RATED PENETRATION | DESIGN # FOR RATED JOINTS |
|--|------------------------|--------|-------------------------|---------------------|-----------------------------|--------------------------------|---------------------------|
| | | REQ'D | PROVIDED (W/ REVISIONS) | | | | |
| Structural frame, including columns, girders, trusses | 230 | N/A | N/A | N/A | N/A | N/A | N/A |
| Beaming walls | 230 | N/A | N/A | N/A | N/A | N/A | N/A |
| Exterior | 230 | N/A | N/A | N/A | N/A | N/A | N/A |
| North | 230 | N/A | N/A | N/A | N/A | N/A | N/A |
| East | 230 | N/A | N/A | N/A | N/A | N/A | N/A |
| West | 230 | N/A | N/A | N/A | N/A | N/A | N/A |
| South | 230 | N/A | N/A | N/A | N/A | N/A | N/A |
| Interior | 230 | N/A | N/A | N/A | N/A | N/A | N/A |
| Nonbearing walls and partitions | 230 | N/A | N/A | N/A | N/A | N/A | N/A |
| Exterior | 230 | N/A | N/A | N/A | N/A | N/A | N/A |
| North | 230 | N/A | N/A | N/A | N/A | N/A | N/A |
| East | 230 | N/A | N/A | N/A | N/A | N/A | N/A |
| West | 230 | N/A | N/A | N/A | N/A | N/A | N/A |
| South | 230 | N/A | N/A | N/A | N/A | N/A | N/A |
| Interior walls and partitions | 230 | N/A | N/A | N/A | N/A | N/A | N/A |
| Floor construction including supporting beams and joists | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Roof construction including supporting beams and joists | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Shells - Exit | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Shells - Other | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Conduit Separation | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Occupancy Separation | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Party-Wall Separation | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Smoke Barrier Separation | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Tenant Separation | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

¹ Indicates section number permitting reduction

SCHEDULE OF SPECIAL INSPECTION SERVICES
 No special inspections required for this project SPECIAL INSPECTIONS REQUIRED

The following sheets comprise the required schedule of special inspections for this project. The construction divisions which require special inspections for this project are as follows:

- IT-1 Verification of Soils
- IT-2 Excavation and Fill
- IT-3 Piling and Drilling Piers
- IT-4 Modular Retaining Walls
- IT-5 Reinforced Concrete
- IT-6 Post Tension Slab
- IT-7 Pre-cast Concrete Erection
- IT-8 Pre-stressed Concrete
- IT-9 Inspection of Pre-cast Fabricators
- IT-10 Inspection of Structural Steel Fabricators
- IT-11 Structural Masonry
- IT-12 Welding
- IT-13 High Strength Bolts & Steel Framing Insp.
- IT-14 Sprayed Fire-Resistance Materials
- IT-15 Exterior Insulation and Finish System
- IT-16 Seismic Resistance
- IT-17 Smoke Control
- IT-18 Dentention Basin
- IT-19 Special Cases

Check the above boxes for the special inspection required for this project and list below specific special inspections required under chapter 17.

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: No Yes
Exit Signs: No Yes
Fire Alarms: No Yes
Smoke Detection Systems: No Yes Partial _____
Panic Hardware: No Yes

Life Safety Plan Sheet # **A-02**

Fire and/or smoke rated wall locations (Chapter 7)
 Assured and real property line locations (Refer to Site Drawings)
 Exterior wall opening area with respect to distance to assumed property lines (705.8)
 Existing structures within 30' of the proposed building
 Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.1)
 Occupant loads for each area
 Exit access travel distances (1016)
 Common path of travel distances (1014.3 & 1028.8)
 Dead end lengths (1018.4)
 Clear exit widths for each exit door
 Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.1)
 Actual occupant load for each exit door
 A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
 Location of doors with panic hardware (1008.1.10

