

BUILDING DATA

Calif. Polytechnic State University Building 11, Agricultural Sciences

Original Construction 1985

Occupancy Type: B Occ., with A-3 Accessory (less than 10%), sprinklered

Construction Type: II-B [(E) Condition per current code]

Primary Structural Frame, non combustible – (E) steel frame and metal wall framing comply.

Exterior bearing walls, non combustible – (E) steel frame and metal wall framing comply.

Interior bearing walls, non combustible – (E) steel frame and metal wall framing comply.

Interior Walls and Partitions (non bearing), Non combustible: (E) metal stud comply

Floor Construction and secondary members, non-combustible: concrete floor slab over metal deck, steel frame

Roof Construction and secondary members, non-combustible: concrete roof slab over metal deck, steel frame

Non Bearing Exterior Walls (Table 602)-

North Wall ->10' to <30' : No Requirement.

> 30' : No Requirement.

North Wall, Fire separation distance is greater than 20', NO LIMIT on exterior openings per table 705.8

All others, Fire separation distance is greater than 30', NO LIMIT on exterior openings per table 705.8

No. of Stories: 3 – OK per Table 503, 3 stories Allowed

(E) Building Height- 45', 55' allowed

Actual Building Area-

First Floor - 19,280 sq. ft

Second Floor - 18,065 sq. ft.

Third Floor- 9,710 sq. ft.

Total: 47,055 sq. ft.

Allowable Area Calculation

$A_a = [A_t + [A_t \times I_f] + [A_t \times I_s]]$ (Per 506.1)

$I_f = [F/P - 0.25] \times W/30$ (Per 506.2)

(If not calculated, I_s provides enough increase)

$I_s = 2$ (sprkld)

$A_t = 23,000$ sq. ft. (Per Table 503)

$A_a = \{23,000 + [0] + [23,000 \times 2]\}$

$A_a = 23,000 + 46,000 = 69,000$ sq. ft. per Floor

First Floor- 19,280 sq. ft. < 69,000 sq. ft. Allowable, **OK**

Second Floor- 18,065 sq. ft. < 69,000 sq. ft. Allowable, **OK**

Third Floor- 9,710 sq. ft. < 69,000 sq. ft. Allowable, **OK**

Total Allowable Area- 207,000 sq. ft. (506.4.1, 3 stories)

Total (E) Area – 44,055 sq. ft. **OK**

DSA Info-

No DSA Number.

Fire Sprinkler Info-

Fully Sprinkler. Service Room 121.

Boyane automatic Sprinkler Co. NFPA 13 LT. HAZ.-Orig. Construction

Remodel in Room 302 (new Drop Ceiling) installed by Alpha Fire

Central Model A 165° ½" Chrome

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