4. Door and window openings in exterior walls within 5' of property line, are required to have protected openings. No opening is allowed within 3' of property line. See CBC Table 705.8. Doors at corridors (see Table 715.4) shall be solid core slab rated at 45 minute. Note: No doors occur at corridors. Doors located within 5' of property line (see Table 715-5) shall be solid core 1-1/2" slab rated at 90 minutes.

5. Horizontal draft blocking shall consist of 1/2" type x drywall, or 3/8" plywood, or 3/8" particle board. Draft stops shall be installed in the combustible concealed soffit/eave (above second floor walk way and balcony) at 10' increments. Draft stopping shall be installed in attic and concealed roof spaces in such a way as to limit such space to maximum of 3000 sqft. (CBC 717.2) See cross section and details. Horizontal fire/draft blocking (in the form of 2 by solid blocking) shall be installed in the combustible concealed studs at partitions and soffits and at intervals that do not exceed 10' in height.

6. Where an egress court serving a building or portion thereof is less than 10' in width, the egress court walls shall have not less than 1-hr. fire-resistance-rated construction for a distance of 10' above the floor of the court. Openings within such walls shall be protected by opening protectives having a fire protection rating of not less than 3/4 hour. (CBC 1024.5.2) See details.

7. When walls and ceiling are required to be fire-resistive or noncombustible, the finish material shall be applied directly against such fire-resistive or noncombustible construction or to furring strips not exceeding 1-3/4 inches. The furred space shall be filled with inorganic or Class A material or fire blocked not to exceed 8 feet in any direction. (CBC 803.11.1)

Fire Notes

1. All exterior primary structural walls, bearing interior walls, floor construction and the structural portion only of roof construction shall have a fire-resistance rating of 1 hour. (CBC Table -601 & Table -602). See plans for locations and details of its construction.

2. When two or more buildings are on the same property and they are not analyzed to comply as one building, the building shall have an assumed property line between them for determining wall and opening protection, and roof cover requirements or treated as a single building. (CBC 704.3) See plans for assumed property line location. When two or more buildings are on the same property, the buildings shall have an assumed property line between them for the purpose of determining the required wall and opening protection and roof cover requirements, per Section 705.3. An exception is provided if the combined area of the buildings is within the limits specified in Chapter 5, for a single building. (CBC 503.1.2). Wall rating and opening protection of exterior walls of the buildings shall be determined based on fire separation distance defined a follows: The distance measured from the building face to one of the following: 1. The closest interior lot line; 2. To the centerline of a street, an alley or public way; or 3. To an imaginary line between two buildings on the property. (CBC 702).

3. Structural elements in exterior walls required to be of fire-resistance-rated construction shall have fire-resistance rating equal to or greater than that required for an exterior bearing wall. (CBC Table 602) All structural elements supporting a fire barrier must have the same fire-resistance ratings as the required occupancy separation. (CBC 706.5). Fire barrier at vertical occupancy separations must have continuity and must extend through underfloor area, attic areas, and suspended ceiling areas (CBC 706.5)

Door Schedule

Note: Contractor to verify all sizes with field conditions. All labels shall remain until final inspection is approved.

dr #	location/size	type/material	finish	jamb	U factor	SHGH	dr note
1	see plan/3068	wd/alum skin	paint	3-1/2"			1,2
2	restrm/2668	wd/slab	paint	3-1/2"			3

Insulation Notes

1. Provide R-19 fiberglass insulation at all party walls with 2 x 4 offset studs on a 2 x 6 top and bottom plate.

2. Provide R-30 insulation at truss attic ceiling assembly. Provide minimum 1" air gap to roof sheeting for attic ventilation.

3. Fasten insulation vapor barrier facing conditioned space when possible. Insulation shall have a flam spread not to exceed 75 and a smoke density not to exceed 450.

Door Notes

1. Doors serving an occupant load of 50 or more (including main exit doors, doors leading to parking lot or right of way or electrical rooms) shall swing in the direction of exit travel (CBC 1008.1.2) Each door leaf in the means of egress shall provide a minimum 32" clear opening and a minimum height of 6'-8" but in no way shall door leaf exceed 48". (CBC1008.1.2)

2. Security Doors: 20 minute fire rating, minimum in rated fire walls of 1 hour; closer required. Door: Solid core wood construction; fully bonded. Undercut ¼ inch. Face: Paint grade or optional stain grade wood veneer. Frame: Hollow steel, fully welded joints, 1.52 mm (U.S. 16 gage); Fastening / Reinforcement: Provide reinforcement, anchors and fasteners to secure frame to perimeter construction. Fill frame with insulation for acoustics. Reinforce frame at latch strike to resist forced entry with a pry bar type hand tool. Hardware: Commercial Grade 2 hardware; night door guard with striker plate; viewer; floor stop; acoustical door seal at perimeter; silencer; hinges; door closer. Entrance Lock: Magnetic encoded card - electronic operated lock Security) with automatic dead bolt. Door Viewer: 160 degree minimum; (furnish two at accessible rooms); one installed at 1.5 m (5 ft.) and other at 1.07 m (3'-6") above finish floor. Provide with clear finish coating. Evacuation Plaque: Locate on room side of entry door.

All doors accessible from corridors (and patios ground floor) will be equipped with a mortise lock which is always locked when the door is closed. The mortise lock will feature a 25mm throw deadbolt and a minimum 15mm deadlatch, both of which are retractable by turning the inside door knob. The device used to activate the lock shall have the capability of being changed with each new guest. This must be done electronically. A thumb turn deadbolt lock alone is not acceptable and will not be allowed for security and safety reasons.

3. Restroom: Solid wood construction, single panel door. Size: 3'-0" with minimum. Frame: Hollow steel, welded joints, 1.52 mm (U.S. 16 gage); painted frames. Hardware: Privacy latchset; hinges; stop; silencers. Undercut door by ¾" for ventilation make up air.

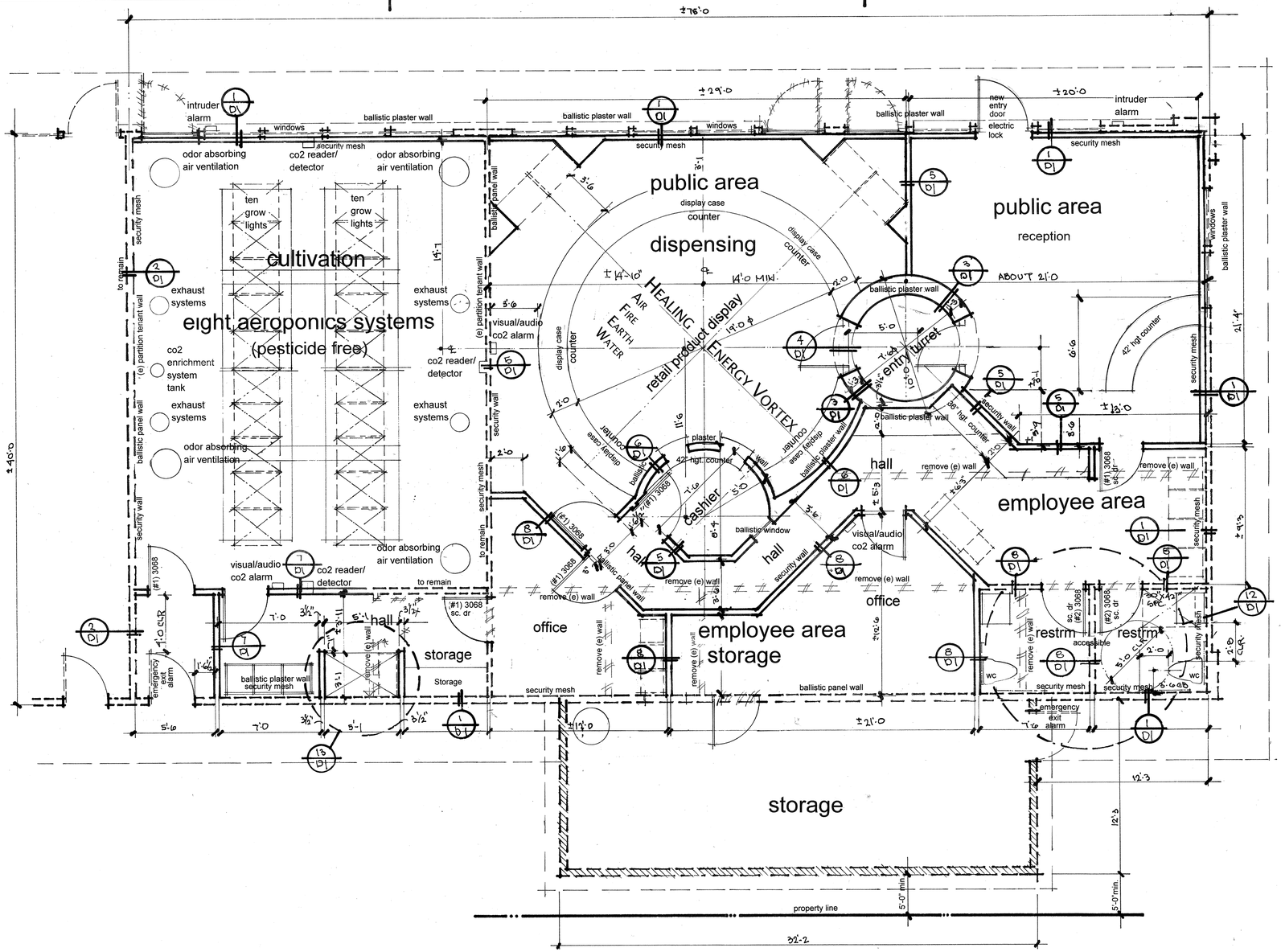
Exterior Floor and Wall Finish Notes

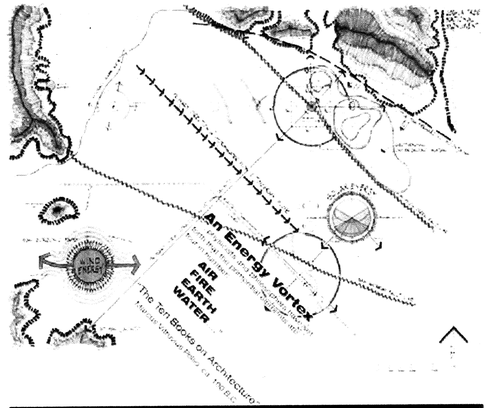
1. Exterior 7/8" 3 coat lath and plaster shall terminate at 26 gauge galvanized weepscreed. Termination point shall occur at minimum 4" above finished grade. Alternate exterior termination at 26 gauge milcore (j metal) with weep holes at concrete and tile patio's and walking (corridor) areas. Termination point shall occur at minimum 1/8" above exterior finished surface. Backing shall be 16 gauge galvanized tie wire at 6" on center horizontally (were plywood does not occur) and two layers of type D paper. (CBC 2510.2) Plaster must conform to ASTM C926 and C1063. Plaster to be 3 coat system conforming to CBC. Provide minimum 2 layers of type D (or equivalent) paper over wood studs and all wood based sheeting walls per CBC. Lap paper minimum 6" vertically and 2" horizontally.

Total thickness to be 7/8". First coat (3/8") shall be allowed to cure (keeping surface continually moist) for a minimum of 48 hours. Second coat (3/8") shall be applied 7 days after first coat. First coat and second coat shall be 3/4" thick. Third coat (finish coat) shall be applied 48" or more after second coat. Total plastered thickness shall be minimum 7/8" from stud/plywood surface. If paint is to be used, provide a elastomeric base to hide cracks.

3. Restrooms shall have a smooth hard non absorbent surface such as ceramic tile or other approved material that extends up the wall a minimum of 6" (CBC 1210.1)

4. Shower compartments and walls above bathtubs with installed shower heads shall be finished with a smooth and nonabsorbent surface to a height not less than 70" above the drain inlet per CBC 1210.3. Use of water-resistant gypsum backing board or concrete board shall be per CBC 2509.2 Shower doors to swing out. Cement, fiber-cement or glass mat gypsum backers in compliance with ASTM C1178, C1288 or C1325 shall be used as a base for wall tile in tub and shower areas and wall and ceiling panels in shower areas. Water-resistance gypsum backing board shall be used as a base for tile in water closet compartment walls when installed in accordance with GA-216 or ASTM C840. Regular gypsum wallboard is permitted under tile or wall panels in other wall and ceiling areas when installed in accordance with GA-216 or ASTM C840. Water-resistant gypsum board shall not be used in the following locations: (CBC 2509.2) a. Over a vapor retarder. b. In areas subject to continuous high humidity, such as saunas, steam rooms or gang shower





Dynamics of the Desert Environment

north

dimensional floor plan

sheet a5

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