NEW DIMENSIONS

P.O. Box 174
Napoleon, Ohio 43545
Phone & Fax
419/599-8339

Ron Sonnenberg
Drafting & Design
Construction, &
Planning Assistance

August 19, 2011

City of Napoleon, Ohio
Attn: Mr. Tom Zimmerman, Zoning Administrator
Mr. Robert J. Bennett, EFO, CSFI, Chief of Fire Department
255 W. Riverview Avenue
Napoleon, Ohio 43545

Ref: Azul Tequila Restaurant,
Bar & Patio Deck Building

Dear Mr. Zimmerman & Chief Bennett,

This letter is in response to verbal comments received from Mr. Robert J. Bennett, EFO, CSFI, and Chief of the City of Napoleon Fire Department during the week of August 1st, 2011. I have not responded sooner in order to await any review comments from Wood County Building Inspection so that I could research and respond to all comments at one time.

Enclosed herewith, for your information, you will find a copy of our response (w/attachments) to Wood County regarding their conditions to the plan approval.

Regarding to the specific questions you raised with me during our phone conversation please accept the following information;

1) Seating Capacity. As you know our original assumption of 200 persons was an estimate. We subsequently accepted the Chief Bennett's determination of 247 persons; assuming that was his official occupant load based on his research and inspection of the property. Since the existing restaurant fire area is not changing, and placement of a new fire rated access door between the two fire areas will serve as an additional fire exit for the existing building fire area, we believe the Chief's determination to be adequate for the purposes of this project because the new patio deck will have its own, independent, exits.

However, in response to your further inquiry we measured the existing areas with table & chair seating and calculated the number of possible patrons using the requirements of O.B.C. Table 1004.1.1 (ref. Table 1004.1.1, Sec. 1301:7-7-10 Ohio Fire Code (O.F.C.). We also counted the number of dedicated seats in the bar areas to determine the number of patrons which can be accommodated there. We also requested the number of employees on the largest, current, work shift. The total of these three calculations brings the estimated maximum occupant load of the existing building to 260 persons.

2) Snow & Ice Accumulation. In reviewing the O.F.C. and O.B.C. we found no requirements related to the prevention of snow & ice accumulation on outdoor stairways. Please advise us of the proper code citation so that we can review it for compliance.

Additionally, in our conversations with Wood County Building Inspection, they were unaware of any current building code requirements in that regard. The O.B.C. did, at one time, speak to that issue; however those sections were revised or deleted and there is currently no requirement in that regard that we are aware of. If you can inform us about the specific code requirements with which we need to comply it would be much appreciated.

Section 1009.5.2 of the O.B.C. does require that outdoor stairways be designed to prevent the accumulation of water. To that end, we will construct the stairs treads with a slight slope to aid in runoff (no more than 1/4" per ft., per O.B.C. Sec. 1009.5.1). Additionally, the treads will likely be composed of two (2) deck boards with a 1/4" to 3/8" space between them which should also help to drain water from the individual treads more quickly.

3) Panic Hardware. The doors in the existing restaurant are equipped with panic hardware and we will provide the newly placed, additional, exit door with that type of hardware as well.

4) Fire Barrier wall. During the preparation of the final plans we were careful to label and specify the fire separation assembly between the existing restaurant fire area and the proposed deck addition as a "Fire Barrier" wall (ref: O.B.C. Sec. 706). This was done specifically to differentiate it from a "Fire Wall" (ref: O.B.C. Sec. 705) so as to avoid confusion and direct the plan reviewer and contractor to the proper code section with regard to the construction of the proposed separation assembly.

We have, since, searched the O.F.C. to determine if there is terminology in that code which would indicate another term of reference for the proposed separation assembly that might conflict with the O.B.C.. To this point we have not found any reference in the Ohio Fire Code with regard to the different types of fire separation assemblies specified in the O.B.C. (ref: Sec's. 705 through 711). Please let us know if there is a specific code terminology in the O.F.C. that you would prefer us to use.

We have revised the first sheet of the plan to remove the word "wall" from the reference to this assembly.

Let us know if this information has fully addressed your concerns. If you have any other questions or concerns please do not hesitate to call.

Respectfully,

Herbert Behrman, P.E., P.S.

cc: Mr. Robert J. Bennett, EFO, CSFI, Chief of Fire Department
Mr. Gregory Beck, Beck Construction Co.
RDS:rds

COPY


# N E W  D I M E N S I O N S

P.O. Box 174
Napoleon, Ohio 43545
Phone & Fax
419/599-8339

Ron Sonnenberg
Drafting & Design
Construction, &
Planning Assistance


August 19, 2011

Attn: Mr. Mark Meyer, Plan Examiner
Wood County Building Inspection
Wood County Courthouse
One Courthouse Square
Bowling Green, Ohio 43506

Ref: AZUL TEQUILA RESTAURANT
601 E. Riverview Avenue
Napoleon, Ohio 43545
Plan Approval: Job #B11-001457
Covered Patio Deck.
August 11, 2011 Letter

Dear Mr. Meyer,

This letter is in response to the conditions you placed on the plan approval referenced above; please note the following regarding those condition:

Item #1; UL Design Designation. The extension of the existing westerly wall which is proposed to be a "Fire Barrier" (Ref. O.B.C. Section 706), between the existing restaurant fire area and fire area of the proposed Covered Patio Deck, was designed in accordance with U.L. Underwriters Laboratories, Inc. design #U906 (copy attached) which indicates a fire rating of 2 hours for a single 6" CMU wythe.

The existing wall is composed of one (1) 6" C.M.U. wythe with an additional 4" nominal face brick wythe on the exterior side which would serve to increase the 2 hour rating. It is our intention to extend this westerly wall up with a minimum 8" C.M.U. 2 hour rated assembly built in substantial conformity with the U.L. design previously noted; and to terminate the wall in a fashion as required by Sec. 706 O.B.C., as shown on the plan, in order to produce an approved 2 hour rated "Fire Barrier" wall assembly between the two (2) fire areas.

Item #2; Handrail Detail. As per our discussion, the handrails to be placed on both the ramp and stairway constructed as a part of this project will be terminated in accordance with O.B.C. Section 1012.5 and the ADAAG. At the bottom of the stair; the handrail shall extend 12" beyond the bottom riser at the same slope as the stair, and then another 12" horizontally. Additionally, the handrails shall extend 12" horizontally beyond the top riser of the stair and 12" horizontally beyond the top and bottom of the ramp slope.

Item # 3; Sealed Roof Truss Specification. The roof trusses for this project have been ordered and I will forward a copy of the engineered truss specification, signed and sealed by an Ohio Registered Professional Engineer, to your office prior to placement of the roof assembly.

Item # 4; Guardrail Height. The guardrail on the entire deck and the stairway will be placed at a consistent height of 42" as per O.B.C. Section 1013. The guardrail on the ramp will be eliminated since it is less than 30" above grade. Approved handrails and edge protection will be placed along the ramp and ramp landing, see attached, revised, plan sheet 1 of 3 for details.

I trust this information sufficiently addresses your questions and concerns. Should you have any other questions or concerns please call or fax me at the number noted above.

Sincerely,

Ron Sonnenberg

Ronald D. Sonnenberg

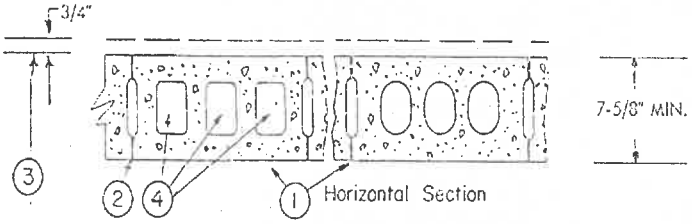
cc: Mr. Robert J. Bennett, EFO, CSFI, Chief of Fire Department
Mr. Gregory Beck, Beck Construction Co.

RDS/rds

FIRE RESISTANCE RATINGS - ANSI/UL263 (BXUV)—*Continued*

### Design No. U904

Bearing Wall Rating—3 HR.
Nonbearing Wall Rating—3 HR.

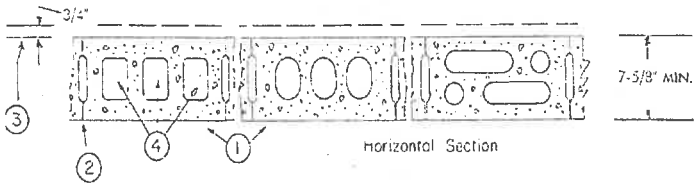



1. **Concrete Blocks***—Various designs. Classification C-3 (3 hr).
   See **Concrete Blocks** category for list of eligible manufacturers.
2. **Mortar**—Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.
3. **Portland Cement Stucco or Gypsum Plaster**—Add 1/2 hr to Classification if used. Attached to concrete bolcks (Item 1).
4. **Loose Masonry Fill**—If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 1 hr to Classification.
5. **Foamed Plastic***—(Optional-Not Shown)—1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).
   **Celotex Corp.**—Type Thermax

*Bearing the UL Classification Marking

### Design No. U905

Bearing Wall Rating—2 HR.
Nonbearing Wall Rating—2 HR

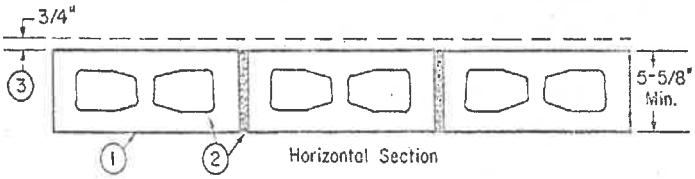



1. **Concrete Blocks***—Various designs. Classification D-2 (2 hr).
   See **Concrete Blocks** category for list of eligible manufacturers.
2. **Mortar**—Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.
3. **Portland Cement Stucco or Gypsum Plaster**—Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).
4. **Loose Masonry Fill**—If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.
5. **Foamed Plastic***—(Optional-Not Shown)—1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).
   **Celotex Corp.**—Type Thermax

*Bearing the UL Classification Marking

### Design No. U906

Bering Wall Rating—2 HR.
Nonbearing Wall Rating—2 HR.





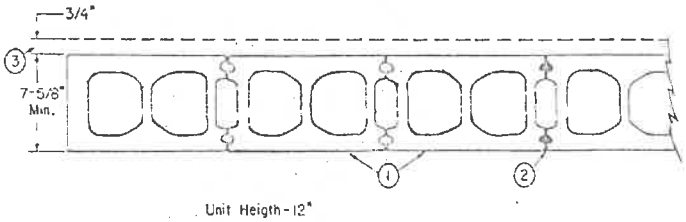

FIRE RESISTANCE RATINGS - ANSI/UL263 (BXUV)—*Continued*

1. **Concrete Blocks***—Nominal 6 by 8 by 16 in, hollow or solid. Classification D-2. (2 hr).
   **Anchor Concrete Products, Inc.**
   **Florida Rock Industries, Inc.**
   **Pike Industries Inc., d/b/a Tilcon Whitcomb.**
   **Westbrook Concrete Block Co., Inc.**
2. **Mortar**—Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.
3. **Portland Cement Stucco or Gypsum Plaster**—Add 1/2 hr to Classification if used. Attached to concrete blocks (Item 1).
4. **Foamed Plastic***—(Optional-Not Shown)—1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).
   **Celotex Corp**—Type Thermax

*Bearing the UL Classification Marking

### Design No. U907

Nonbearing Wall Rating—3 or 4 HR.
(See Item 1)




1. **Concrete Blocks***—Classification C-3 (3 hr) and B-4 (4 hr).

| Rating Hr | Certificate | Web Thickness | Face Shell Thickness | Number Cores |
|---|---|---|---|---|
| 3 | C-3 | 1-1/8 in. | 1-1/4 in. | 2 |
| 4 | B-4 | 1 in. | 1-1/2 in. | 2 |

   **Tarmac-Lonestar, Inc.**
2. **Mortar**—Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to one part Portland cement (proportioned by volume) and 15 percent hydrated lime (by cement volume). Vertical joints staggered.
3. **Portland Cement Stucco or Gypsum Plaster**—Add 1/2 hr to classification if used. Attached to concrete blocks (Item 1).
4. **Loose Masonry Fill**—(Not shown)—If all core spaces are filled with loose dry expanded slag, expanded clay or shale (rotary kiln process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation, Class C-3 (3 hr) concrete blocks will provide a 4 hr fire resistance rating.
5. **Foamed Plastic***—(Optional-Not Shown)—1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1) or interior wall surface.
   **Celotex Corp**—Type Thermax

*Bearing the UL Classification Marking

### Design No. U909

Nonbearing Wall Rating—3 or 4 HR. (See Item 6)