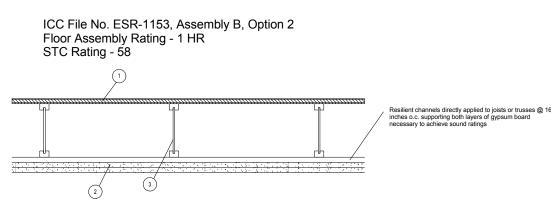


- Gyp-Crete Gypsum Cement: Minimum 3/4" thick; density 100 pounds per cubic foot (minimum)
- Subfloor: 5/8" plywood installed in accordance with the code
- 2x10 wood joists at 16 o.c.
- 2-1/2" fiberglass insulation; density, 1.5pcf (optional)
- 1/2" deep by 1-1/2" wide, No. 25 gage resilient channels at 24" o.c. fastened to each joist with 1-1/4" long drywall screws
- 5/8" gypsum board fastened to channel with 1" long drywall screws spaced at 12" o.c. All joints taped and sealed with compound

Note: In order to obtain 1-hour fire-resistive floor construction, the 1-1/2" wide No. 25 gage resilient channels must be fastened to each joist with 1-1/4" long Type W or S screws spaced 12" o.c. Additionally, the 5/8" Type 'X' gypsum wallboard must be fastened to channels with 1" long Type S screws.



48/24 tongue-and-groove span rated sheathing (Exposure 1), nailed and glued to the TJI joists with construction adhesive conforming to

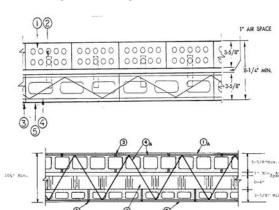
- Two layers of 1/2" thick Type C, or 5/8" thick Type X gypsum board
- Optional minimum 3-1/2" thick glass fiber insulation or glass fiber insulation rated R-30 or less, with resilient channels (not shown)

Note: In order to obtain an STC rating of 58, the assembly requires 3/4" gypsum concrete topping (minimum) and two layers of 5/8" thick Type X gypsum board with minimum 3-1/2" thick fiber insulation or glass fiber insulation rated R-30 or less.

Note: Assembly B, Option 2 has a minimum STC rating of 58 when constructed with resilient channels spaced at 16" o.c. to separate the ceiling membrane from the structural framing, and with a 3/4" floor topping of gypsum concrete recognized in a current evaluation report.

# DESIGN NO. U902

# Bearing Wall Rating -- 4 HR. Alternate Detail



# 1. Clay Face Brick -- 3-5/8 in. wide by 2-1/4 in. high by 8 in. long.

1A. Concrete Blocks\* -- Various designs, Classification D-2 (2 h). See Concrete Blocks category for list of eligible manufacturers. Brick Ties -- 3/4 in. wide, 7 in. long corrugated 26 MSG galv steel. Spaced one to each brick in every second course of blocks. Mortar -- Bricks and 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 clean sharp sand to 1 part Portland cement (proportioned by vol) and not more than 50 percent hydrated lime (by cement vol). Vertical joints

**Reinforcement --** Parallel and diagonal rods, 0.150 in. min diam with welded joints a max 16 in. OC. Placed the width of concrete block wall in every second course of blocks alternately with brick ties.

4A. Masonry Reinforcement -- Prefabricated steel reinforcement, truss or ladder type, used for embedment in every second horizontal mortar joint. Placed the full width of wall assembly. Side and cross rods No. 9

(0.150 in.) min diam with welded joints a max 16 in. OC.

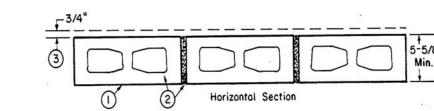
5. Concréte Blocks\* -- Nom 4 in. wide. OLDCASTLE PRECAST INC, DBA AMACOR PRECAST INC Concrete Blocks -- (Alternate to Item 5) -- Various designs Classification D-2 (2 h). See Concrete Blocks category for list of eligible

6. Foamed Plastic\* -- (Optional -- Not shown with clay face brick detail) Rigid polystyrene insulation for use between brick and/or concrete blocks. One or more layers of rigid extruded polystyrene insulation, 4 in. thick max having 1 in. min air space with face brick or

THE DOW CHEMICAL CO OC CELFORTEC INC OWENS CORNING SPECIALTY & FOAM PRODUCTS -- Type 150 or 250. 6A. Foamed Plastic\* -- (Optional-Not shown with clay face brick detail). Rigid polyisocyanurate insulation for use between brick and/or concrete blocks. One or more layers of rigid extruded polystyrene insulation, 4 in. thick max having 1 in. min air space with face brick or blocks. **BPB AMERICA INC --**Type Thermax \*Bearing the UL Classification Mark

### DESIGN NO. U906

#### Bearing Wall Rating--2HR. Nonbearing Wall Rating--2HR.



Foamed Plastic\* -- (Optional-Not Shown) -- 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).

1. Concrete Blocks\* -- Nominal 6 by 8 by 16 in, hollow or solid. Classification D-2 (2 hr). ANCHOR CONCRETE PRODUCTS INC GAGNE & SON CONCRETE BLOCK INC Allowable compressive stress of 57% of max allowable compressive stress in accordance with the empirical design method. BETCO BLOCK & PRODUCTS INC, DBA ARTHUR WHITCOMB WESTBROOK CONCRETE BLOCK CO INC Allowable compressive stress of 75.6% of max allowable compressive stress in accordance with the empirical design method. 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

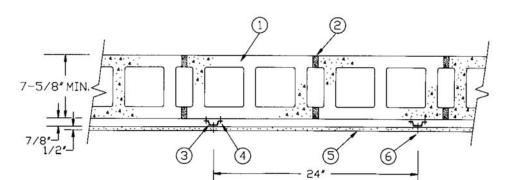
volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered. Portland Cement Stucco or Gypsum Plaster -- Add 1/2 hr to Classifi\hichcation if used. Attached to concrete blocks (Item 1).

**BPB AMERICA INC** --Type Thermax \*Bearing the UL Classification Mark

\*Bearing the UL Classification Mark

## DESIGN NO. U914

#### Bearing Wall Rating--3HR. Nonbearing Wall Rating--3HR.



Concrete Blocks\* -- Various designs. Classification D-2 (2 hr). See Concrete Blocks category for list of eligible manufacturers. 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 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. Furring Channels -- Min 0.019 in. thick (25 gauge) galv steel, 1-3/8 in. wide on top and 2-3/4 in. wide at bottom by 7/8 in. deep. Spaced 24 in. OC perpendicular to floor with a channel parallel to and approximately 3 in. above floor and 3 in. below ceiling. Clearance between vertical and horizontal channels 1/2 in.

Channel Fasteners -- 1-1/4 in. long masonry screws with 3/16 in. body and 5/16 in. diameter head. Fasteners spaced 24 in. O.C. with the fasteners staggered on each long leg of the furring channel. 4A. Steel Framing Members\* -- (Not Shown) -- Alternate method used to attach furring channels (Item 3) to concrete blocks (Item 1). Clips spaced 48 in. OC., and secured to blocks with 1/4 in. dia. By 3 in. long

concrete expansion anchor (Item 4B) through the center grommet. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Furring channels are friction fitted into clips. PAC INTERNATIONAL INC -- Type RSIC-1.

4B. Concrete Expansion Anchor -- (Not Shown) -- 1/4 in. dia. by 3 in. long carbon steel, pre-assembled, nail drive expansion anchor with mushroom head driven into the web of the concrete block. Min. embedment in concrete block of 1-3/8 in. and evaluated in accordance with ASTM E 488 to have ultimate load capacities of 980 lbs (tension) and 1400 lbs (shear) when used in 2000 psi concrete. 5. Gypsum Board\* -- 1/2 in. thick, 4 ft wide, secured to furring channels with wallboard fasteners (Item 6). Gypsum plaster not more than 1/16 in. thick may be applied to wallboard in addition to joint treatment. AMÉRICAN GYPSUM CO -- Types AG-C, AGX-C. BPB AMERICA INC -- ProRoc Type C. BPB CANADA INC -- ProRoc Type C. CANADIAN GYPSUM COMPANY -- Types C, IP-X2, IPC-AR. G-P GYPSUM CORP, SUB OF GEORGIA-PACIFIC CORP -- Type 5. LAFARGE NORTH AMERICA INC -- Types LGFC-C, LGFC C/A. NATIONAL GYPSUM CO -- Types FSK-C, FSW-C, FSMR-C. PABCO GYPSUM, DIV OF PACIFIC COAST BUILDING PRODUCTS INC -- Type PG-C.-- STANDARD GYPSUM L L C -- Type SG-C. TEMPLE-INLAND FOREST PRODUCTS CORP -- Type TG-C. UNITED STATES GYPSUM CO -- Types C, IP-X2, IPC-AR. USG MEXICO S ADE C V -- Types C, IP-X2, IPC-AR.

Wallboard Fasteners -- 1 in. long, self-drilling, self-tapping steel screws with bugle heads. Fasteners attached to each furring channel and spaced 8 in. OC at butt joints and 12 in. OC in the field of the board parallel with furring channels. Clearance between fasteners and edges of wallboard 3/4 in. 2 Joint System -- (Not shown) -- Paper tape embedded in cementitious compound over joints. Paper tape and exposed screw heads covered with two layers of compound. Edges of compound feathered out.

\*Bearing the UL Classification Mark



ARCHITECTURE PLLC 6800 S Creek Rd, Charlotte, NC 28277

Ph:(704) 625-6554 Fax:(704) 919-5822 EMÁIL:ashish@mishraarch.com WEB: www.mishraarch.com

CIVIL:
David Lane Beaird & Associates, Inc. 105 Commercial Parkway West Monroe, LA 71294 Phone: (318) 388-3227 Email:fgadberry@dlbengineering.com

WGPM, Inc. 11220 Elm Lane, Suite 201 Charlotte, NC 28277 Phone: (704) 542-7199 Fax: (704) 542-7195 Email: lwright@wgpminc.com

ELECTRICAL:
Ritter Engineering 1043 Arroyo Vista Lane Matthew, NC 28014 Phone: (704) 516-0385 Fax: (704) 644-1464 Email: shane@rittereng.com

MECHANICAL: Shultz Engineering Group, P.C. 212 North McDowell St., Suite 204 Charlotte, NC 28204 Phone: (704) 334-7363 Fax:(704) 347-0093 Email: don@shultzeg.com

Na	Date	Description
No.	Date	Description

Information contained on this drawing and in all digital files associated is authorized for use on the project named herein only and is the property of MISHRA ARCHITECTURE PLLC and may not be reproduced in any manner without express authorized individuals. Original drawing is 24"x36" and scales are as indicated. © 2013 MISHRA ARCHITECTURE PLLC



# **KEY PLAN**

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd. Monroe, LA 71201

Drawing Title UL Listings

Construction Documents

Project No. 12-111 Prepared by Author Checked by Checker Date Sept. 16, 2013

Released for

PERMIT ONLY