

**A1** COLUMN INSERT DETAIL  
1" = 1'-0"

EXISTING PARTITION  
NEW COLUMN INSERT, CONNECTED TO NEW CURTAIN WALL

**C2** BEAM FIREPROOFING  
1" = 1'-0"

CONCRETE PLANK, SEE #1, REF. STRUCT.  
RUNNER ANGLE, SEE #4  
STEEL BEAM, REF. STRUCT.  
1/2"  
1/2"  
CORNER ANGLE, SEE #6  
(2) LAYERS 5/8" TYPE 'X' FIRE RATED GWB, SEE #7  
1"X2" 25 MSG GALV. STEEL CHANNEL BRACKETS @ 24" O.C., SEE #5  
2 HR. FIRE RATED BEAM ENCLOSURE UL# N501

UL# N501 - RESTRAINED AND UNRESTRAINED BEAM RATINGS - 2 HR.

**STEEL BEAM** - MIN SIZE, A W8X24 WITH OUTSIDE DIMENSIONS OF 7-7/8X6-1/2 IN. WITH A FLANGE THICKNESS OF 3/8 IN., A WEB THICKNESS OF 1/4 IN., AND A CROSS-SECTIONAL AREA OF 7.06 SQ IN.

- NORMAL WEIGHT CONCRETE** - 148 PCF. (CONC. FLOOR PLANK)
- (NOT USED)
- DRILL SCREW** - NO. 8-18 BY 1/2-IN. LONG PHILLIPS PANHEAD DRILL SCREWS, SELF-DRILLING AND SELF-TAPPING (POWDER-ACTUATED FASTENER AT CONCRETE PLANK), MADE OF CASE-HARDENED STEEL.
- RUNNER ANGLE** - 24 MSG GALV STEEL WITH 1 AND 2-IN. LEGS, FASTENED TO CONCRETE PLANK 12 IN. O.C. WITH ITEM 3.
- CHANNEL BRACKET** - 24 MSG GALV STEEL WITH 1 AND 2-IN. LEGS, 1-11/16 IN. DEEP WITH 1-IN. LEGS AND SPACED 24 IN. O.C. FASTENED TO THE RUNNER ANGLES WITH ITEM 3.
- CORNER ANGLE** - SAME MATERIAL AS ITEM 4, FASTENED TO CHANNEL BRACKETS WITH ITEM 3.
- GYPSUM BOARD** - 5/8 IN. THICK, FIRST LAYER FASTENED WITH 1-1/4 IN. LONG, 0.150 IN. DIA. SCREWS SPACED 16 IN. O.C. SECOND LAYER ATTACHED WITH 1-3/4 IN. LONG, 0.150 IN. DIA. SCREWS SPACED 8 IN. O.C. SCREWS ARE SELF-DRILLING AND SELF-TAPPING PHILLIPS HEAD MADE OF CASE-HARDENED STEEL.
- CORNER BEAD (NOT SHOWN)** - FABRICATED FROM 20 MSG GALV STEEL TO FORM AN ANGLE WITH 1-1/4 IN. LEGS. LEGS PERFORATED WITH 1/4 IN. DIA. HOLES APPROX 1 IN. OC. ATTACHED TO WALLBOARD WITH SPECIAL CRIMPING TOOL APPROX 6 IN. OC. AS AN ALTERNATE, THE BEAD MAY BE NAILED TO THE WALLBOARD.
- JOINT COMPOUND (NOT SHOWN)** - 1/32 IN. THICK ON BOTTOM AND SIDES OF WALLBOARD FROM CORNER BEADS AND FEATHERED OUT. PAPER TAPE EMBEDDED IN JOINT COMPOUND OVER JOINTS WITH EDGES OF COMPOUND FEATHERED OUT.
- (NOT USED)
- (NOT USED)
- ALTERNATE CONSTRUCTION - STEEL FRAMING MEMBERS** - AS AN ALTERNATE TO ITEMS 3, 4, 5 AND 6 STEEL CLIPS ATTACHED TO BOTH SIDES OF BEAM FLANGES 2 FT OC AND AT ENDS OF BEAM. FIRST LAYER OF GYPSUM BOARD FASTENED TO STEEL CLIPS WITH 1-1/4 IN. LONG TYPE S DRYWALL SCREWS. 2 IN. BY 2 IN. 25 MSG ANGLE FASTENED TO CLIPS ON BOTTOM PORTION OF ASSEMBLY WITH 2 IN. LONG TYPE S DRYWALL SCREWS. SECOND LAYER OF GYPSUM BOARD FASTENED TO ANGLE AND STEEL CLIPS WITH 2 IN. LONG TYPE S DRYWALL SCREWS. SPACED 2 FT OC. SCREWS ARE SELF-DRILLING AND SELF-TAPPING PHILLIPS HEAD MADE OF CASE-HARDENED STEEL.

JOHN WAGNER ASSOCIATES INC, DBA GRABBER - TYPE CB CLIP.  
\*BEARING THE UL CLASSIFICATION MARK

**E3** BEAM FIREPROOFING  
1" = 1'-0"

CONCRETE PLANK REF. STRUCT.  
STEEL BEAM, REF. STRUCT.  
(2) LAYERS 5/8" TYPE 'X' FIRE RATED GWB, SEE #7  
U.L. LISTED 'CB' CLIPS, SEE #12  
NOTE: FOR UL DESCRIPTION, SEE

2 HR. FIRE RATED BEAM ENCLOSURE UL# N501

**STEEL COLUMN** - MIN SIZES OF W-SHAPED AND TUBULAR STEEL COLUMNS WHICH APPEAR IN THE AISC STEEL CONSTRUCTION MANUAL AS SHOWN UNDER ITEM 2.

**2. GYPSUM BOARD** - NOM 1/2 IN. OR 5/8 IN. THICK GYPSUM BOARD. APPLIED IN LAYERS AS NOTED IN THE ABOVE ILLUSTRATIONS. BOARDS ARE TO BE APPLIED VERTICALLY WITH VERTICAL JOINTS. MIN TOTAL THICKNESS OF LAYERS IN INCHES FOR THE VARIOUS RATINGS AND MIN COLUMN SIZES ARE AS FOLLOWS:  
STEEL COLUMN SMALLER THAN 8"X8"X1/4": TOTAL GYPSUM THICKNESS 1". ALTERNATELY OVERLAPPING CORNERS  
STEEL COLUMN 8"X8"X1/4" OR LARGER: TOTAL GYPSUM THICKNESS 5/8".  
ANY 1/2 IN. THICK UL CLASSIFIED GYPSUM BOARD THAT IS ELIGIBLE FOR USE IN DESIGN NO. X515. ANY 5/8 IN. THICK UL CLASSIFIED GYPSUM BOARD THAT IS ELIGIBLE FOR USE IN DESIGN NOS. L501, G512 OR U305. SEE **GYPSUM BOARD (CKNX)** CATEGORY FOR NAMES OF CLASSIFIED COMPANIES.

**3. STEEL STUD** - 1-5/8 IN. WIDE WITH 1-5/16 AND 1-7/16 IN. LEGS HAVING A 1/4-IN. FOLDED FLANGE, FABRICATED FROM NO. 25 MSG GALV STEEL. LENGTH TO BE 1/2 IN. LESS THAN THE ASSEMBLY HEIGHT.

**4. CORNER BEADS** - (NOT SHOWN) - NO. 28 MSG GALV STEEL, 1-1/4 IN. LEGS TO BE ATTACHED TO THE WALLBOARD WITH NO. 6 BY 1 IN. SCREWS SPACED 12 IN. OC MAX.

**5. TIE WIRE** - NO. 18 SWG STEEL WIRE SPACED 24 IN. O.C. USED WITH SECOND LAYER OF WALLBOARD.

**6. SCREWS** - FOR ATTACHING FIRST LAYER OF WALLBOARD TO STEEL STUDS TO BE NO. 6 BY 1 IN. PHILLIPS HEAD SELF-DRILLING, SELF-TAPPING DOUBLE LEAD SCREWS SPACED 24 IN. OC. FOR ATTACHING SECOND LAYER OF WALLBOARD TO STEEL STUDS TO BE NO. 6 BY 1-3/4 IN. STEEL SCREWS OF THE SAME TYPE SPACED 12 IN. OC.

**7. FINISHING SYSTEM** - (NOT SHOWN) - JOINT COMPOUND APPLIED OVER CORNER BEADS TO A THICKNESS OF 1/16 IN.

\*BEARING THE UL CLASSIFICATION MARK

**B3** TYP. INT. STOREFRONT HEAD DTL.  
3" = 1'-0"

VESTIBULE  
LOBBY  
WALL AS SCHEDULED  
J-BEAD  
BACKER ROD & SEALANT  
WOOD SHIM AS REQUIRED  
ALUMINUM STOREFRONT

**A4** STOREFRONT SILL DTL.  
3" = 1'-0"

BACKER ROD & SEALANT PROVIDE WEEPS PER MFRS WRITTEN INSTRUCTIONS  
ALUMINUM PAN FLASHING, TURN UP BACK & SIDES  
SEALANT  
SEALANT  
FLOORING AS SCHEDULED  
CONT. BED OF SEALANT

**D4** COLUMN FIREPROOFING  
1" = 1'-0"

(2) LAYERS 5/8" FIRE-RATED GWB, SEE #2  
STEEL COLUMN SMALLER THAN 8" X 8" X 1/4" SEE #4, REF. STRUCT.  
1 5/8" X 28 MSG GALV STEEL STUDS, SEE #3. PLUMB AND ALIGN FRAMING. FASTEN PER NOTE #6  
1 HR. FIRE RATED COLUMN ENCLOSURE UL# X528  
UL# X528 - COLUMN RATINGS - 1 HR.

**1. STEEL COLUMN** - MIN SIZES OF W-SHAPED AND TUBULAR STEEL COLUMNS WHICH APPEAR IN THE AISC STEEL CONSTRUCTION MANUAL AS SHOWN UNDER ITEM 2.

**2. GYPSUM BOARD** - NOM 1/2 IN. OR 5/8 IN. THICK GYPSUM BOARD. APPLIED IN LAYERS AS NOTED IN THE ABOVE ILLUSTRATIONS. BOARDS ARE TO BE APPLIED VERTICALLY WITH VERTICAL JOINTS. MIN TOTAL THICKNESS OF LAYERS IN INCHES FOR THE VARIOUS RATINGS AND MIN COLUMN SIZES ARE AS FOLLOWS:  
STEEL COLUMN SMALLER THAN 8"X8"X1/4": TOTAL GYPSUM THICKNESS 1". ALTERNATELY OVERLAPPING CORNERS  
STEEL COLUMN 8"X8"X1/4" OR LARGER: TOTAL GYPSUM THICKNESS 5/8".  
ANY 1/2 IN. THICK UL CLASSIFIED GYPSUM BOARD THAT IS ELIGIBLE FOR USE IN DESIGN NO. X515. ANY 5/8 IN. THICK UL CLASSIFIED GYPSUM BOARD THAT IS ELIGIBLE FOR USE IN DESIGN NOS. L501, G512 OR U305. SEE **GYPSUM BOARD (CKNX)** CATEGORY FOR NAMES OF CLASSIFIED COMPANIES.

**3. STEEL STUD** - 1-5/8 IN. WIDE WITH 1-5/16 AND 1-7/16 IN. LEGS HAVING A 1/4-IN. FOLDED FLANGE, FABRICATED FROM NO. 25 MSG GALV STEEL. LENGTH TO BE 1/2 IN. LESS THAN THE ASSEMBLY HEIGHT.

**4. CORNER BEADS** - (NOT SHOWN) - NO. 28 MSG GALV STEEL, 1-1/4 IN. LEGS TO BE ATTACHED TO THE WALLBOARD WITH NO. 6 BY 1 IN. SCREWS SPACED 12 IN. OC MAX.

**5. TIE WIRE** - NO. 18 SWG STEEL WIRE SPACED 24 IN. O.C. USED WITH SECOND LAYER OF WALLBOARD.

**6. SCREWS** - FOR ATTACHING FIRST LAYER OF WALLBOARD TO STEEL STUDS TO BE NO. 6 BY 1 IN. PHILLIPS HEAD SELF-DRILLING, SELF-TAPPING DOUBLE LEAD SCREWS SPACED 24 IN. OC. FOR ATTACHING SECOND LAYER OF WALLBOARD TO STEEL STUDS TO BE NO. 6 BY 1-3/4 IN. STEEL SCREWS OF THE SAME TYPE SPACED 12 IN. OC.

**7. FINISHING SYSTEM** - (NOT SHOWN) - JOINT COMPOUND APPLIED OVER CORNER BEADS TO A THICKNESS OF 1/16 IN.

\*BEARING THE UL CLASSIFICATION MARK

**D5** ENTRY PARAPET DTL.  
3" = 1'-0"

4" METAL ERA PREFORMED FASCIA SYSTEM  
EXTEND TPO MEMBRANE BEHIND FASCIA  
AVB EXTEND OVER PARAPET  
3/4" P.T. PLYWD.  
(2) LYRS 3/4" P.T. PLYWD  
EXTEND TPO MEMBRANE OVER PARAPET  
STRUCTURAL STEEL COLUMN PAINTED  
STOREFRONT SYSTEM

1/2" COVERBOARD  
METAL DECK, REF. STRUCTURAL  
STEEL BEAM & ANGLE, REF. STRUCTURAL  
1/2" P.T. PLYWD.  
3 5/8" MTL. STUD  
CONT. BENT MTL. PLATE, REF. STRUCTURAL  
CONT. MTL. PROFILE - MFG: MTL - ERA CONTACT: DANA SPURGEON (262) 650-6449 PROVIDE SHOP DRAWINGS FOR APPROVAL  
(2) LYRS 3/4" P.T. PLYWD. BACKER ROD & SEALANT

EXISTING EIFS NOTE: CUT BACK EXISTING EIFS AS REQUIRED TO INSTALL NEW FLASHING, CONNECT TO EXISTING FLASHING AND AIR/WEATHER BARRIER, ETC. PER EIFS MANUFACTURER'S WRITTEN INSTRUCTIONS.

**B4** STOREFRONT HEAD DTL. @ EIFS/METAL  
3" = 1'-0"

EIFS  
EIFS MEMBRANE FLASHING, SEAL TO AIR/WEATHER BARRIER  
EIFS FLASHING, SEAL TO AIR/WEATHER BARRIER  
BACKER ROD AND SEALANT  
WRAP AIR/WEATHER BARRIER INTO WINDOW OPENING  
-ALUMINUM STOREFRONT

WRAP VAPOR BARRIER INTO WINDOW OPENING  
3 5/8" MTL. STUDS  
P.T. 2X WD. BLOCKING  
SEALANT

**A6** TYPICAL ROOF DETAIL  
1" = 1'-0"

TPO ROOF SYSTEM  
SLOPE 1/4" PER PLAN  
TAPERED INSULATION @ TOP OF BASE LAYER  
6" ± BASE LAYER OF RIGID INSUL. MIN R30  
VAPOR BARRIER  
COVER BOARD  
ROOFING SUBSTRATE VARIES REF TO PLANS

**D5** ENTRY PARAPET DTL.  
3" = 1'-0"

4" METAL ERA PREFORMED FASCIA SYSTEM  
EXTEND TPO MEMBRANE BEHIND FASCIA  
AVB EXTEND OVER PARAPET  
3/4" P.T. PLYWD.  
(2) LYRS 3/4" P.T. PLYWD  
EXTEND TPO MEMBRANE OVER PARAPET  
STRUCTURAL STEEL COLUMN PAINTED  
STOREFRONT SYSTEM

1/2" COVERBOARD  
METAL DECK, REF. STRUCTURAL  
STEEL BEAM & ANGLE, REF. STRUCTURAL  
1/2" P.T. PLYWD.  
3 5/8" MTL. STUD  
CONT. BENT MTL. PLATE, REF. STRUCTURAL  
CONT. MTL. PROFILE - MFG: MTL - ERA CONTACT: DANA SPURGEON (262) 650-6449 PROVIDE SHOP DRAWINGS FOR APPROVAL  
(2) LYRS 3/4" P.T. PLYWD. BACKER ROD & SEALANT

**D6** COLUMN DETAIL  
1" = 1'-0"

STRUCTURAL STEEL COLUMN PAINTED  
STOREFRONT SYSTEM

**B5** HEAD DTL. @ ENTRY  
3" = 1'-0"

RIGID INSUL. REFER.  
FLASHING MEMBRANE  
BACKER ROD AND SEALANT  
ACM ATTACHMENT PER MFRS WRITTEN INSTRUCTIONS  
WEEPS PER MFRS STANDARD DETAILS  
ALUMINUM STOREFRONT

**A4** STOREFRONT SILL DTL.  
3" = 1'-0"

BACKER ROD & SEALANT PROVIDE WEEPS PER MFRS WRITTEN INSTRUCTIONS  
ALUMINUM PAN FLASHING, TURN UP BACK & SIDES  
SEALANT  
SEALANT  
FLOORING AS SCHEDULED  
CONT. BED OF SEALANT

**D5** ENTRY PARAPET DTL.  
3" = 1'-0"

4" METAL ERA PREFORMED FASCIA SYSTEM  
EXTEND TPO MEMBRANE BEHIND FASCIA  
AVB EXTEND OVER PARAPET  
3/4" P.T. PLYWD.  
(2) LYRS 3/4" P.T. PLYWD  
EXTEND TPO MEMBRANE OVER PARAPET  
STRUCTURAL STEEL COLUMN PAINTED  
STOREFRONT SYSTEM

**D6** COLUMN DETAIL  
1" = 1'-0"

STRUCTURAL STEEL COLUMN PAINTED  
STOREFRONT SYSTEM

**B5** HEAD DTL. @ ENTRY  
3" = 1'-0"

RIGID INSUL. REFER.  
FLASHING MEMBRANE  
BACKER ROD AND SEALANT  
ACM ATTACHMENT PER MFRS WRITTEN INSTRUCTIONS  
WEEPS PER MFRS STANDARD DETAILS  
ALUMINUM STOREFRONT

**A6** TYPICAL ROOF DETAIL  
1" = 1'-0"

TPO ROOF SYSTEM  
SLOPE 1/4" PER PLAN  
TAPERED INSULATION @ TOP OF BASE LAYER  
6" ± BASE LAYER OF RIGID INSUL. MIN R30  
VAPOR BARRIER  
COVER BOARD  
ROOFING SUBSTRATE VARIES REF TO PLANS

**D5** ENTRY PARAPET DTL.  
3" = 1'-0"

4" METAL ERA PREFORMED FASCIA SYSTEM  
EXTEND TPO MEMBRANE BEHIND FASCIA  
AVB EXTEND OVER PARAPET  
3/4" P.T. PLYWD.  
(2) LYRS 3/4" P.T. PLYWD  
EXTEND TPO MEMBRANE OVER PARAPET  
STRUCTURAL STEEL COLUMN PAINTED  
STOREFRONT SYSTEM

**D6** COLUMN DETAIL  
1" = 1'-0"

STRUCTURAL STEEL COLUMN PAINTED  
STOREFRONT SYSTEM

**B5** HEAD DTL. @ ENTRY  
3" = 1'-0"

RIGID INSUL. REFER.  
FLASHING MEMBRANE  
BACKER ROD AND SEALANT  
ACM ATTACHMENT PER MFRS WRITTEN INSTRUCTIONS  
WEEPS PER MFRS STANDARD DETAILS  
ALUMINUM STOREFRONT

**A6** TYPICAL ROOF DETAIL  
1" = 1'-0"

TPO ROOF SYSTEM  
SLOPE 1/4" PER PLAN  
TAPERED INSULATION @ TOP OF BASE LAYER  
6" ± BASE LAYER OF RIGID INSUL. MIN R30  
VAPOR BARRIER  
COVER BOARD  
ROOFING SUBSTRATE VARIES REF TO PLANS

Project:  
**LAQUINTA**  
INNS & SUITES  
**PORTLAND LaQUINTA INN & SUITES LQ #2049 RENOVATION**  
340 Park Ave, Portland, ME 04102

Project Owner:  
**LQ MANAGEMENT, LLC**  
909 HIDDEN RIDGE, SUITE 600 IRVING, TEXAS 75038

Architect:  
**BMA**  
Professional Corporation  
**BMA Architectural Group**  
Architects ■ Designers ■ Planners  
12 Middle Street  
Amherst, New Hampshire 03031  
TEL 603 673 1991 FAX 603 672 1385  
www.bmaworld.com

Seal:  
**ROLF K. BIGGERS**  
No. 2597  
STATE OF MAINE  
LICENSED ARCHITECT

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**REVISIONS**

Job Number: 3044  
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Checked By: RKB  
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