

G. Siding - Akaminum or steel siding attached over sheathing to studs:

H. Fiber-Cement Siding - Fiber-cement exterior sidings including smooth

Fire Resistance Ratings - ANSI/UL 263

Steel Framing Members - (Optional, Not Shown)\* - Furring Channes and Steel Framing

4 (C) Harisantal Section

2A. 95med \$4meds — (Set Shown) — "B" - stripped shock repetition back to back in page of "C-41" - original shock filters 27 "F" - stripped shock is secured trapsform with steel sometime page of a maximum 15 cm. OC. "Fairmeted the more min 23 "B" of the Collection by the back of the collection by the collection by the strip of the strip of the strip of the collection by the collection by the strip of the s Croin 4 in, deep when System C is used), with one leg 3 in, long and the legs 3.4 in, leng. Shorter legs 3 in, apart to 4ngage gyptom heer period. Out to Reights 3/3 to 1/3 in, lens than tour to celling heights. 28. Perring Chapmedy — (Delicinal, and sheem) — Per use with single or decible layer systems. Besident herrog chapmed in Perrinal Commission producted energy installed by land appending the production from some 201826 commission producted energy installed by land on "If and appending the product of the pr 2C, Furning Channels — For the with Session 1. 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Wydraeth Reserve -System 4 - 3 Hr To review pathols, with Services, Square or Springer adjace, mon 576 to 1646, 48 to 1672 (200 min visite anothe Vertically or translation, inducted to esset with 3 to 1644 Type 3 state (chain) spaces 3 2 to 1640 Minimum vertically or 16 to 10 CM with pathols for promoting from the another fact to establish or induced by their financial. CANADIAN GYPTUM COMPANY - Peres AR, C. (P.AR, 18-XC, (P.AE, 10-AE, 18C), (BRC, 18EC, 18C), (BRC, 18C), **CHITTED STATES SYPSUM CO** -- TYDIO AR, C, FEDING, IE-NE, DINK, DINK, DYCAR, SCH, SHIN, WER, WEN, USG MENSOD SIA DE E V -- TYPES AND COMPANY, DE VO., DE VAR, DE VO., DE VAR, SEN, SEN, SEN, SEN, SEN, SEN, n company and managerous as In them base layer burens, recounted joints between most and outer layers staggered a like of \$2. **akadian oppun company** – 272 m. Type C. MAZ, bet-ne or milt Ha in Types AC. C. MAZ, B-. L. B-AZ, BATAR, BCR, BNC, WEG, ARK <mark>UNITED STATES CYPSUM CO</mark> -- 1, C de 1830 C, D+C, 18C 0A, 0+20C, TO de 1830 C, Types AB, C, 18R-C, D+ AB, D+C, D+C, 18C-AB, SCX, S10C, WBC, 18RA USG MERICO S A DE CW - 5.7 %. Typos C, 3P-K2, (PC-59, 5) (SEC), Typos AR, C, 3P-AR, SP-KL, IP-K2, 3PC-AR, 3CX, SPK, SPC, WEX System C-2 Hr Expound parkets, with the velocity operand on reported velocity, and to \$14 in 1, thing, 48 in 1, or 1,200 mm white, equival ventrality for the manifestion, sequenced with 3 1,274 in, long Type III treat present spaced & in. OC along ventral expound as a 1,2 in. OC in the field when installation of \$1,274 in 1, thing Type III treat present appeared & in. 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Type://dk//t. JP.P.G. SP-48; IP.P.S. -- 1/2 in. Type://t. DP.CC. SPC-48; S/4 in. Type://dk//t. JP.P.G. SP-48; IP.P.S. -- 1/2 in. Type://t. DP.CC. SPC-48; S/4 in. Type://dk//t. JP.P.G. SPC-48; S/4 in. Type://dk//t. JP.G. SPC-48; S/4 in. T **LING MEDITO'S & DE C S** ~ 127 St. Typin'S C, 29 TE, 28 C, AN, Se'S St. Typin AR, C, 29 AR, 29 NO. 18 NO. 28 C AR, 2004, 2005, 2005, 2005, 2005. System F - 230: is paper garnin, with belonied, square or benefied engine, none 1,2 is, or 5,5 is, those, 48 is or 5,200 orm nee, septimed sections in the septime. Detector have report ablanced to restrict forming charmets (1904) 257 (1904) 2.18. Royal Paper B state scenes concent 23 in . Chart or final report ablanced to receive for incompanies (1904) 258, 1905, 2-575 in, thing Syper S steel copiess spaced 1,2 in. OC and chappened 1,2 in. from these septim Canadian syrsim company  $\sim 5/2$  d. Type C, 19-12, 19C of  $\phi$  while  $S(\pi)\phi$  . Types AS, C, Phys., 19-13, 19-13, 195-18, 223, 339, 398C, WEN UNITED STATES GYPSUM CO. - 3/2 in. Nove C. 18-42, 195-04 or NVC 5/6 in. Nyon, AR, C. 200 G. (Re-AN, 18-3), 18-42, 195-36, NOV, SING, WAY. WHY the rester a be  $c\,v$  - 3.2 or 1700 C. Brits, species of 1800, 5.8 in, 17000 FR. C. Brits, Brits, Brits, 1800, 1800, 1800, 1800, System 6 - 3 Hr disposer canety, with bisoried, sectors or tapared edges, most \$18.00. Block AB to, or 2,040 from table, applied vectorality or borrespondity in three layers, linear or trace degree difference to study with a long Type & need covers special 24 to, 0.00 block instances provided by \$3.00 block and to study with a long Type & need covers special 24 to, and the instances provided by \$3.00 block and to study with \$4.00 to. 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CANADIAN CYPSUM COMPANY - Types C. 19-82, 190-88, 1980

UNITED STATES EVENUE CO - Treat C, 15-32, 197, 48, 3007 - USG MEDICO SALDE C.V. - TYDOLC, 39-X2, 180-38, NRC Syspanis pensis, with beneated, squares or becamed sedges, norm 374 to, 8000, 8-8 wide (pr. 1200 min for metric seasong) volfsbeard with squares or backeted edges. This of their isysan to the case. First and second clinical rearrange from a present agreed vertically or households by store or agreed vertically or households by store in store death, for investigating prints a case of or to become of the process of the proces Canadian arpsum Company -- Types 19-83, of Generalists UNITED STATES CYPSION CO -- Types 19-30, or DCTVACCOS USG MEXICO & A DE C V ... (Note (P. S). OF CORRECCOE. 44. **Syptum Board**\* — (as an adminished is from 4 Systomic A. D. C. D. E. P. D. M. and Linter used as the Seas Payor. For direct attractment only) - Som Direct active and teached gyroum passed with benefad, square or training applied appears, applied contractly. Postonic points contented using study and diagogated rife 1 stack directly on opposite orbits of study. Willboard a content to shart or with 1-1/A in. Song Type 5-12 stood attract passed 2 in. DC at the field. RAY-BAR ENGINEERING CORP -- Type 35 (50) on restor layers of grygaenn bounds (Stan 4 and AA), sovered ords paper table and justic compound and plant compound may be emitted when pypeum bounds are expelled with section addess, discount tables sovered ords, joint compound. Springer) — Mingrish wood on gloon filter tootto stantocky on completely filting equid county. Any minoral wood or Took they both princed bearing the CL Commission American to the Commission of the Commission o 3 in (System C) and min 3-1/2 in (System b) thick mineral was baths, triation thad between the study DYERMAFIRER THO -- TYDESAFR IX and etaggarod 8 in them gyrisen will beard known, teelets received with glass floor mark tape, Vertica points arappears one study and by from growine and bound follows, studential filleds, staggered a role of \$2 or Then the gapears needboard points. UNITED STATES CYPSING CO - DUNING Externs Coment Search or CURRENT Search Coment Search 8. Lambhasting Adheetee\* — (Cultons, that Shown) — Used to breid outer layer of Competitions Bucker Stells (Dam 7) to inner tayers of Cognisis Social (Dam 4) in System 0. 4683, 4,184, 17pp 3 inspects atheon applied with 1,4 to, operare addition from See Adheetees (Shotis) in the Enrichment Directory or Adheetees (SALC) in the Systemic Debators Directory for names of Classified competition. Land Batter String - Met Shoot, For Dee With Stein 484 - Land batter street, 2 is, with mile 20 ft.

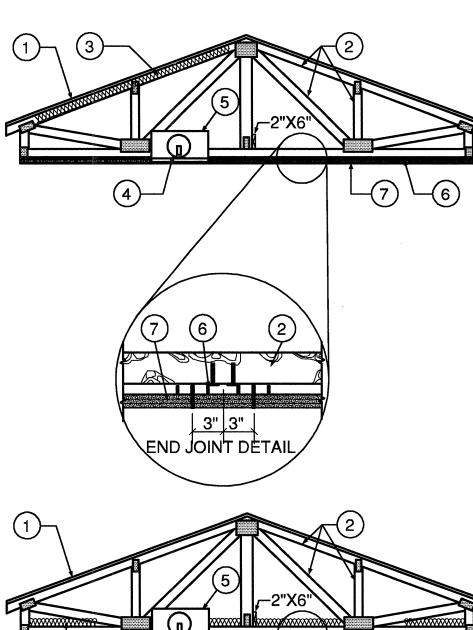
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Systems A. S. C. E. S. G. H. S.

Systems 4, 8, 2, 2, 4, 4, X

Design No. P522 Fire Resistance Ratings - ANSI/UL 263 February 04, 2008

Unrestrained Assembly Rating — 1 Hr Finish Rating — 25 Min (See Items 3 or 3A) Load Restricted for Canadian Applications — See Guide BXUV7



over nom 15/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Nom 15/32 in. thick wood structural panels secured to trusses with No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Construction adhesive may be used with either the nails or staples. 2. Trusses — Pitched or parallel chord wood trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Truss members secured together with min. 0.0356 in. thick galv steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approximately 7/8 in. centers with four rows of teeth per inch of plate width. Where the truss intersects with the interior face of the exterior walls, the min truss depth shall be 5-1/4 in. with

ALTERNATE INSULATION PLACEMENT

truss of 21 sq/ft. Where the truss intersects with the interior face of the exterior walls, the min truss depth may be reduced to 3 in. if the batts and blankets ( Item 3) are used as shown in the above illustration (Alternate Insulation Placement) and are firmly packed against the intersection of the bottom chords and the plywood sheathing. 3. Batts and Blankets\* — (Optional) - Required when Item 6B is used — Glass fiber insulation, secured to the wood structural panels with staples spaced 12 in. OC or to the trusses with 0.090 in. diam galv steel wires spaced 12 in. OC. Any glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance, having a min density of 0.5 pcf. As an option, the insulation may be fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. When Steel Framing Members (Item 6B) are used, max 3-1/2 in. thick insulation shall be draped over the furring channels (Item 6Ba) and

gypsum board ceiling membrane, and friction-fitted between trusses and Steel Framing Members (Item 6Bd). The finished

a min roof slope of 3/12 and a min. area in the plane of the

rating has only been determined when the insulation is secured to the decking.
3A. Fiber, Sprayed\* — As an alternate to Item 3 (not evaluated for use with Item 6B) — Any thickness of spray-applied cellulose insulation material, having a min density of 0.5 pcf, applied within the concealed space, over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. The finished rating when Fiber, Sprayed is used has not been determined. The fiber is applied with water within the concealed space, over the resilient channel/gypsum board ceiling membrane, in accordance with the application instructions supplied with the product. Alternate application method: The fiber is applied with U.S. Greenfiber LLC Type AD100 hot melt adhesive at a nominal ratio of one part adhesive to 6.6 parts fiber in accordance with the application instructions supplied with the product. Alternate application method: The fiber is applied without water or adhesive in accordance with the application instructions supplied with the product.

U S GREENFIBER L L C — Cocoon2 Stabilized or Cocoon-FRM (Fire Rated Material).

4. Air Duct\* — Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer. 5. Ceiling Damper\* — Max nom area, 324 sq in. Max square size, 18 in. by 18 in. rectangular sizes not to exceed 324 so in, with a max width of 18 in. Max damper height is 14 in. Installed in accordance with manufacturers installation instructions provided with the damper. Max damper openings not to exceed 162 sq in. per 100 sq ft of ceiling area. C&S AIR PRODUCTS — Model RD-521

POTTORFF — Model CFD-521

5A. Alternate Ceiling Damper\* — Max nom area, 196 sq in. Max square size, 14 in. by 14 in. Rectangular sizes not to exceed 196 sq in. with a max width of 24 in. Max overall damper height is 7 in. Installed in accordance with the manufacturers installation instructions provided with the damper. Max damper openings not to exceed 98 sq in. per 100 sq ft of ceiling area. C&S AIR PRODUCTS — Model RD-521-BT

POTTORFF — Model CFD-521-BT.

6. Furring Channels — Resilient channels, nom. 1/2 in. deep by 2-3/8 in. wide at the base and 1-3/8 in. wide at the face, formed from 0.020 in. thick galv steel. Installed perpendicular to the trusses (Item 2), spaced a max of 16 . OC when no insulation (Item 3 or 3A) is fitted in the concealed spaced, or a max of 12 in. OC when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane. Two courses of resilient channel positioned 6 in. OC at wallboard butt-joints (3 in. from each end of wallboard) Channels oriented opposite at wallboard butt-joints. Channel splices overlapped 4 in. beneath wood trusses. Channels secured to each truss with 1-1/4 in. long Type S screws. 6A. Steel Framing Members — (Not Shown)\* — As an alternate to Item 6, furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to trusses when no insulation (Items 3 or 3A) is fitted in the concealed space or 12 in. OC when insulation (Items 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane or 24 in. OC when insulation (Items 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane and a second layer of gypsum board is attached as described in Item 7 for steel framing members. Channels secured to joists as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of

b. Steel Framing Members — Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC. RSIC-1 clips secured to alternating trusses with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V clips secured to alternating joists with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item a. 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. Additional clips required to hold furring channel that supports the gypsum board butt ioints, as described in Item 7 PAC INTERNATIONAL INC — Type RSIC-1, RSIC-V.

6B. Steel Framing Members\* — (Not Shown) - As an alternate to Items 6 and 6A.

a. Furring Channels — Hat-shaped furring channels. 7/8 in. deep by 2-5/8 in. wide at the base and 1-1/4 in. wide at the face, formed from No. 25 ga. galv steel, spaced max. 16 in. OC perpendicular to trusses and Cold Rolled Channels (Item 6Bb). Furring channels secured to Cold Rolled Channels at every intersection with a 1/2 in. pan head self-drilling screw through each furring channel leg. Ends of adjoining channels overlapped 4 in. and tied together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap. Supplemental furring channels at base layer and outer layer gypsum board butt joints are not required. Batts and Blankets draped over furring channels as described in Item 3. Two layers of gypsum board attached to furring channels as described in Item 7. b. Cold Rolled Channels — 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to

trusses, friction-fitted into the channel caddy on the Steel Framing Members (Item 6Bd). Adjoining lengths of cold rolled channels lapped min. 6 in. and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.

c. Blocking — Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 6 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the truss (Item 2) at the top and bottom of the blocking at each Steel Framing Member (Item 6Bd) location d. Steel Framing Members\* — Hangers spaced 48 in. OC. max along truss, and secured to the Blocking (Item 6Bc) on alternating trusses with a single 5/16 in. by 2 in. hex head lag bolt or four #6 1-1/4 in. drywall screws through mounting hole(s) on the hanger bracket. The two 1/4 in. long steel teeth on the hanger are embedded in the side of the blocking. Hanger positioned on blocking and leveling bolt height adjusted such that furring channels are flush with bottom of trusses before gypsum board installation. Spring gauge of hanger chosen per manufacturer\'s instructions. KINETICS NOISE CONTROL INC — Type ICW.

7. Gypsum Board\* — One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to trusses. Attached to the resilient channels using 1 in. long
Type S bugle-head screws. Screws spaced a max of 12 in. OC along butted end-joints and in the field when no insulation (Item 3 or 3A) is fitted in the concealed spaced, or a max of 8 in. OC along butted end-joints and in the field when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling

When Steel Framing Members\* (Item 6A) are used, sheets installed with long dimension perpendicular to furring channels and side joints of sheet located beneath trusses Gypsum board screws are driven through channel spaced 12 in. OC in the field when no insulation (Item 3 or 3A) is fitted in the concealed space, or 8 in. OC in the field when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane. Gypsum board butt joints shall be staggered min. 2 ft. within the assembly, and occur between the main furring channels. At the gypsum board butt joints, each end of the gypsum board shall be supported by a single length of furring channel equal to the width of the wallboard plus 6 in. on each end. The furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to the trusses with one clip at each end of the channel. Screw spacing along the butt joint to attach the gypsum board to the furring channels shall be 8 in. OC. Second (outer) layer of gypsum board required when furring channels (Item 6A, a) are spaced 24 in. OC and insulation is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane. Outer layer of gypsum board attached to the furring channels using 1-5/8 in. long Type S bugle-head screws spaced 8 in. OC at butted joints and 12 in. OC in the field. Butted end joints of outer layer to be offset a minimum of 8 in. from base layer end joints. Butted side joints of outer layer to be offset minimum 18 in. from butted side joints of base layer.

When Steel Framing Members (Item 6B) are used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimensions perpendicular to furring channels (Item 6Ba). Base layer attached to the furring channels using 1 in. long Type S bugle head steel screws spaced 8 in. OC along butted end joints and 12 in. OC in the field of the board. Butted end joints centered on the continuous furring channels. Butted base layer end joints to be offset a min of 16 in. in adjacent courses. Outer layer attached to the furring channels using 1-5/8 in. long Type S bugle head steel screws spaced 8 in. OC at butted end joints and 12 in. OC in the field. Butted end joints centered on the continuous furring channels and offset a min of 16 in. from butted end joints of base layer. Butted side joints of outer layer to be offset min 16 in. from butted side joints of base layer.

CANADIAN GYPSUM COMPANY — Types C, IP-X2, IPC-AR.

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR.

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR.

8. Finishing System — (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board. Alternate Ceiling Membrane — Not Shown. Steel Framing Members —

. Main runners — Installed perpendicular to trusses — Nom 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 t OC. Main runners hung a min of 2 in. from bottom chord of trusses with 12 SWG galv steel wire. Wires located a max of

b. Cross tees or channels — Nom 4 ft long, 15/16 in. or 1-1/2 in. wide face or cross channels, nom 4 ft long, 1-1/2 wide face, installed perpendicular to the main runners, spaced 16 in. OC. Additional cross tees or channels used at 8 in. from each side of butted gypsum board end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.

c. Wall angles or channels — Used to support steel framing member ends and for screw-attachment of the gypsum wallboard — Min 0.016 in. thick painted or galvanized steel angle with 1 in. legs or min. 0.016 in. thick painted or galvanized steel channel with a 1 by 1-1/2 by 1 in. profile, attached to walls at perimeter of ceiling with fasteners 16 in. OC. CGC INC — Type DGL or RX

USG INTERIORS INC — Type DGL or RX.

 Gypsum Board\* — For use with Steel Framing Members (Item 9) when Batts and Blankets\* (Item 6) are not used - One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to the main runners. Gypsum board fastened to each cross tee or channel with five wallboard screws, with one screw located at the midspan of the cross tee or channel, one screw located 12 in. from and on each side of the cross tee or channel mid span and one screw located 1-1/2 in. from each gypsum board side joint. Except at wallboard end joints, wallboard screws shall be located on alternating sides of cross tee flange. At gypsum board end joints, gypsum board screws shall be located 1/2 in. from the joint. Gypsum board fastened to main runners with wallboard screws 1/2 in. from side joints, midway between intersections with cross tees or channels (16 in. OC). End joints of adjacent gypsum board sheets shall be staggered not less than 32 in. Gypsum board sheets screw attached to leg of wall angle with wallboard screws spaced 12 in. OC. Joints treated as described in Item 7. For use with Steel Framing Members\* (Item 9) when Batts and Blankets\* (Item 6) are used - Ratings limited to 1 Hour-5/8 in. thick, 4 ft wide; installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Fastened to cross tees with 1 in. long steel gypsum board screws spaced 8 in. OC in the field and 8 in. OC along end joints. Fastened to main runners with 1 in. long gypsum board screws spaced midway between cross fees. Screws along sides and ends of boards spaced 3/8 to 1/2 in. from board edge. End joints of the sheets shall be staggered with spacing between joints on adjacent boards not less than 4 ft O.C.

CANADIAN GYPSUM COMPANY — Type C or IP-X2.

UNITED STATES GYPSUM CO — Type C or IP-X2.

USG MEXICO S A DE C V — Type C or IP-X2. Last Updated on 2008-02-04

> PLEASE REFER TO UL.COM FOR MOST JP-TO-DATE UL REVISIONS

**REVISIONS ADDISC** MEN



4144 N. Central Expy. Suite 855 Dallas, TX 75204 214.520.8878

bgoarchitects.com DATE

08-05-2011

**PROJECT** 

11129

SHEET NUMBER

U.L. U415 & P522

FIRE PROTECTION