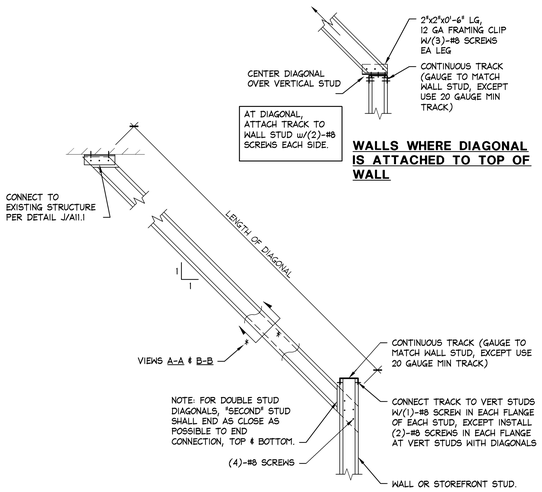


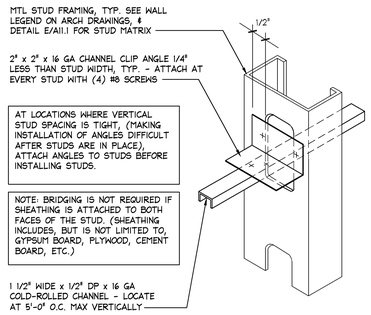
DIAGONAL BRACING OPTIONS

20 GA. DIAGONAL BRACE OPTIONS:

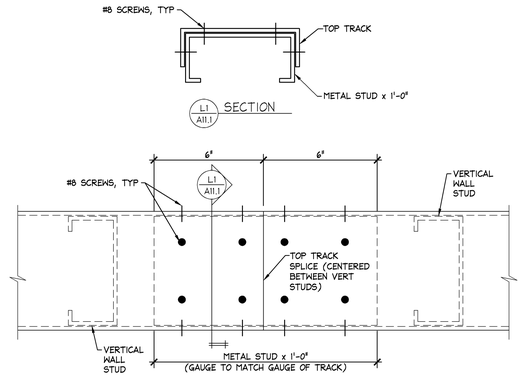
DIAGONAL LENGTH- UP TO 14'-0"	DIAGONAL LENGTH- 14'-1" TO 20'-0" *
SINGLE 3 5/8", 20 GA. DIAGONAL	DBL 3 5/8", 20 GA. STUDS WITH 1 5/8" WIDE FLANGES
1 5/8"	1 5/8"
VIEW A-A	#8 SCREWS @ 12"c/c — VIEW B-B

SPACING OF DIAGONAL BRACING	* CONTACT ARCHITECT FOR LENGTHS LONGER THAN 20'-0".
INTERIOR PARTITIONS - 72" O.C. MAX STOREFRONT FRAMING - 48" O.C. MAX EXTERIOR WALLS - 48" O.C. MAX	

TYPICAL DIAGONAL BRACING SEISMIC DESIGN CATEGORIES A & B — 1" = 1'-0" — R — 05/21/13



BRIDGING DETAIL — 1" = 1'-0" — M



TOP TRACK SPLICE — N.T.S. — L — 05/21/13

LIGHT GAUGE FRAMING - CROSS REFERENCE GUIDE

MIL. THICKNESS - GAUGE NUMBER CROSS REFERENCE

25 GA. ------ 18 MIL	16 GA. ------ 54 MIL
22 GA. ------ 27 MIL	14 GA. ------ 68 MIL
20 GA. ------ 33 MIL	12 GA. ------ 97 MIL
18 GA. ------ 43 MIL	

EXAMPLE CROSS REFERENCE:

3 5/8", 18 GA STRUCTURAL METAL STUD = 362 S 162 - 43 METAL STUD

STUD DEPTH =3.625" =3 5/8" — (S=STUD) (T=TRACK) — FLANGE WIDTH =1.625" =1 5/8" — STUD THICKNESS =43 MIL (18 GA.)

TYPICAL STRUCTURAL STUDS AND TRACKS

FORMER STANDARD DESIGNATION	NEW SSMA DESIGNATION (STEEL STUD MANUFACTURERS ASSOCIATION)
2 1/2", 20 GA. STUD w/ 1 5/8" FLANGE	250S162-33
2 1/2", 18 GA. STUD w/ 1 5/8" FLANGE	250S162-43
3 5/8", 20 GA. STUD w/ 1 5/8" FLANGE	362S162-33
3 5/8", 18 GA. STUD w/ 1 5/8" FLANGE	362S162-43
6", 20 GA. STUD w/ 1 5/8" FLANGE	600S162-33
6", 18 GA. STUD w/ 1 5/8" FLANGE	600S162-43
8", 18 GA. STUD w/ 1 5/8" FLANGE	800S162-43
8", 16 GA. STUD w/ 1 5/8" FLANGE	800S162-54
10", 18 GA. STUD w/ 1 5/8" FLANGE	1000S162-43
10", 16 GA. STUD w/ 1 5/8" FLANGE	1000S162-54
12", 16 GA. STUD w/ 1 5/8" FLANGE	1200S162-54
12", 12 GA. STUD w/ 1 5/8" FLANGE	1200S162-97
1 5/8", 22 GA. TRACK w/ 1 1/4" LEG	162T125-27
1 5/8", 20 GA. TRACK w/ 1 1/4" LEG	162T125-33
2 1/2", 20 GA. TRACK w/ 1 1/4" LEG	250T125-33
2 1/2", 20 GA. TRACK w/ 2" LEG	250T200-33
2 1/2", 18 GA. TRACK w/ 1 1/4" LEG	250T125-43
2 1/2", 18 GA. TRACK w/ 2" LEG	250T200-43
3 5/8", 20 GA. TRACK w/ 1 1/4" LEG	362T125-33
3 5/8", 20 GA. TRACK w/ 2" LEG	362T200-33
3 5/8", 18 GA. TRACK w/ 1 1/4" LEG	362T125-43
3 5/8", 18 GA. TRACK w/ 2" LEG	362T200-43
6", 20 GA. TRACK w/ 1 1/4" LEG	600T125-33
6", 20 GA. TRACK w/ 2" LEG	600T200-33
6", 18 GA. TRACK w/ 1 1/4" LEG	600T125-43
6", 18 GA. TRACK w/ 2" LEG	600T200-43

TYPICAL HAT (FURRING) CHANNELS

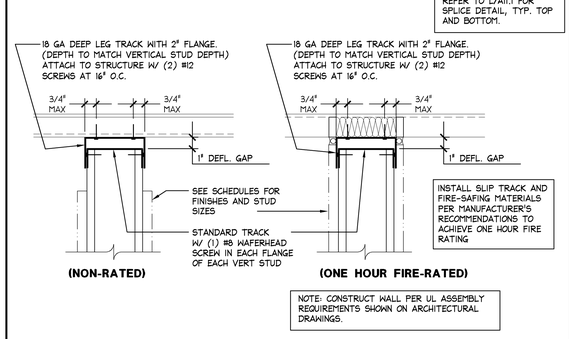
7/8", 25 GA. FURRING CHANNEL	087F125-18
7/8", 22 GA. FURRING CHANNEL	087F125-27

LIGHT GAUGE FRAMING SCREW CONNECTIONS

UNLESS NOTED, LIGHT GAUGE FRAMING CONNECTIONS SHALL BE MADE USING #8 SCREWS. SEE DETAIL R/A11.1 FOR DIAGONAL BRACING CONNECTIONS.

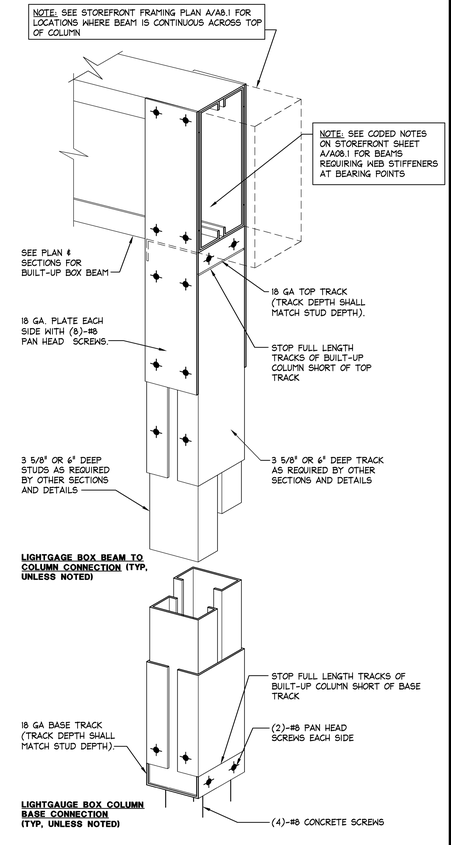
AT LOCATIONS WHERE SHEATHING MATERIAL IS PLACED AGAINST THE SCREW HEADS OF LIGHTGAUGE METAL FRAMING CONNECTIONS, PANCAKE HEAD SCREWS SHALL BE USED SO THAT THE SHEATHING MATERIAL REMAINS STRAIGHT AND SMOOTH.

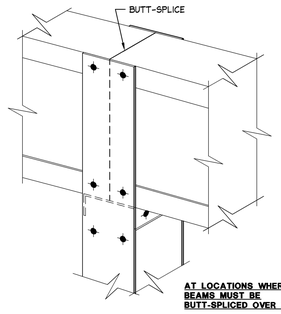
LIGHT GAUGE METAL FRAMING — N.T.S. — G — 05/21/13



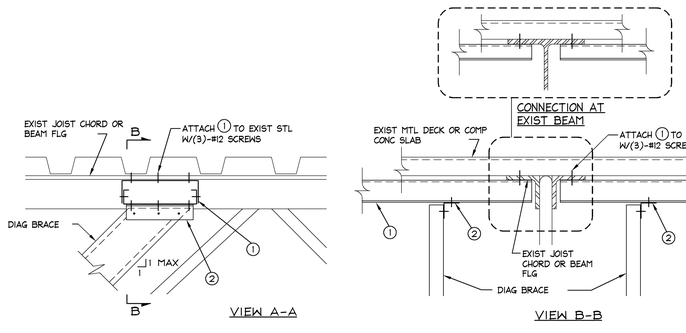
SEISMIC DESIGN CATEGORIES A & B

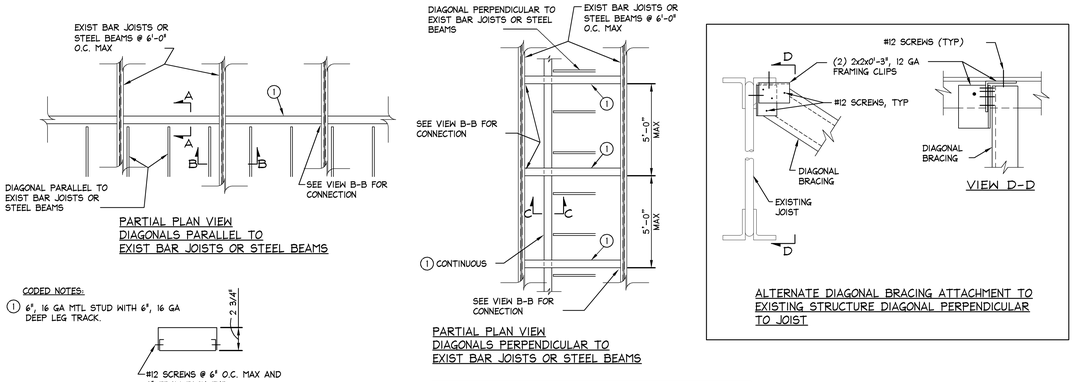
DEFLECTION TRACK WALL ATTACHEMENT TO METAL DECK — 3" = 1'-0" — D — 05/21/13





LIGHT GAUGE BOX COLUMN DETAIL — 3" = 1'-0" — A — 05/21/13





CODED NOTES:

1. 6", 16 GA MTL STUD WITH 6", 16 GA DEEP LEG TRACK.
2. 2 x 2 x 12 GA x 6" LG FRAMING CLIP, ONE SIDE OF DIAG, W/(3)-#12 SCREWS EACH LEG.

CONTACT ARCHITECT FOR REVISED DETAILS IF JOIST OR BEAM SPACING EXCEEDS 6'-0".

TYPICAL DIAGONAL BRACING CONNECTION ATTACHMENT TO EXISTING BAR JOIST OR STEEL BEAM — N.T.S. — J — 05/21/13

LIMITING HEIGHTS FOR INTERIOR METAL STUD PARTITIONS
SALES PARTITIONS WITHOUT SHELVING ATTACHED
NON-SALES PARTITIONS WITHOUT SHELVING ATTACHED
ALL SEISMIC DESIGN CATEGORIES

STUD DESIGNATION	STUD DEPTH	FLANGE WIDTH	STUD GAUGE	STUD SPACING	MAXIMUM WALL HEIGHT OR MAXIMUM HEIGHT TO DIAGONAL BRACE
362S162-33	3-5/8"	1-5/8"	20	16"	17'-6"
362S162-43	3-5/8"	1-5/8"	18	16"	19'-0"
362S162-54	3-5/8"	1-5/8"	16	16"	20'-6"
600S162-33	6"	1-5/8"	20	16"	26'-6"
600S162-43	6"	1-5/8"	18	16"	28'-6"
600S162-54	6"	1-5/8"	16	16"	30'-0"

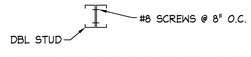
LIMITING HEIGHTS FOR INTERIOR METAL STUD PARTITIONS
SALES PARTITIONS WITH SHELVING ATTACHED
SEISMIC DESIGN CATEGORIES A AND B

STUD DESIGNATION	STUD DEPTH	FLANGE WIDTH	STUD GAUGE	STUD SPACING	MAXIMUM HEIGHT TO DIAGONAL BRACE
362S162-33	3-5/8"	1-5/8"	20	16"	15'-0"
362S162-43	3-5/8"	1-5/8"	18	16"	16'-6"
362S162-54	3-5/8"	1-5/8"	16	16"	18'-0"

LIMITING HEIGHTS FOR INTERIOR METAL STUD PARTITIONS
NON-SALES PARTITIONS WITH SHELVING ATTACHED
SEISMIC DESIGN CATEGORIES A AND B

STUD DESIGNATION	STUD DEPTH	FLANGE WIDTH	STUD GAUGE	STUD SPACING	MAXIMUM HEIGHT TO DIAGONAL BRACE
362S162-33	3-5/8"	1-5/8"	20	16"	15'-0"
362S162-43	3-5/8"	1-5/8"	18	16"	16'-0"
362S162-54	3-5/8"	1-5/8"	16	16"	17'-0"

NOTE: AT LOCATIONS WHERE A STUD WALL SUPPORTS BOTH SALES AND NON-SALES SHELVING, THE STUDS SHOWN IN THE TABLE BELOW SHALL BE "DOUBLED UP" AS FOLLOWS:



IN ADDITION, THE SPACING OF THE TOP AND BOTTOM WALL TRACK CONNECTIONS TO THE EXISTING STRUCTURE SHALL BE REDUCED TO 6" O.C. MAX., AND DIAGONAL SPACING SHALL BE REDUCED TO 32" O.C.

NOTES:

1. DESIGN BASED ON ALLOWABLE DEFLECTION OF L/240.
2. DESIGN BASED ON FY = 33 KSI FOR 3 5/8" & 6" STUDS LESS THAN 16 GAUGE. FY = 50 KSI FOR 3 5/8", 16 GAUGE & 6", 16 GAUGE STUDS.
3. PROVIDE HORIZONTAL BRIDGING @ 4'-0" O.C. MAX PER MANUFACTURER'S RECOMMENDATIONS.
4. DESIGN BASED ON MINIMUM 5 PSF LATERAL LOAD, OR LATERAL SEISMIC LOAD, WHICHEVER CONTROLS.
5. TABLE IS VALID FOR (1) LAYER OF GYPSUM BOARD EACH FACE.
6. FOR STUD DESIGNATIONS REFER TO G/A11.1.

STUD SIZE MATRIX SEISMIC DESIGN CATEGORIES A & B — 6" = 1'-0" — E — 05/21/13

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PROJECT INFORMATION:
EXPRESS
SPRINGFIELD TOWN CENTER
6847 SPRINGFIELD MALL
SPACE NO.: 6847
SPRINGFIELD, VA 22150

SCOPE: NEW | PACKAGE: PKG B
DESIGN TYPE: DC | GENERATION: FALL 2014
ESD&C PROJECT #: 94869 | A/E PROJECT #: 130832

REVISIONS:

	REQUIRED BY:	DATE:
1 ATH	BUILDING DEPARTMENT & LANDLORD COMMENTS	03/13/14
2 ATH *	BUILDING DEPARTMENT & LANDLORD COMMENTS	04/09/14
3 *		05/08/14

* INDICATES NO REVISION TO THIS SHEET

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ELITE CONSTRUCTION GROUP
LAKE JACKSON, TX.
PHONE: 979-285-0712
NOTE: THESE PRINTS HAVE BEEN REDUCED BY 50 PERCENT. SCALE WILL BE 50 PERCENT OF WHAT IS NOTED ON PLANS

DATE ISSUED: 02/14/2014
DESIGNED BY: JB
DRAWN BY: AEM
CHECKED BY: KMM

FRAMING DETAILS 1

DRAWING NUMBER: A11.1