DESIGN LOADS

(ARCHITECT/ENGINEER OF RECORD TO REVIEW COMPONENT LOADS SHOWN BELOW)

CODE BODY: IBC 2009
ROOF LIVE LOAD: 20
ROOF DEAD LOAD: 22
FLOOR LIVE LOAD: N/A

COMPONENTS & CLADDING WIND LOAD

FLOOR DEAD LOAD: N/A

ROOF	SURFACE PRESSURE (psf)
AREA	10 sf 50 sf 100 sf
NEGATIVE ZONE 1	-20.4 -20.4 -20.4
NEGATIVE ZONE 2	-23.6 -22.5 -22.0
NEGATIVE ZONE 3	-31.6 -24.9 -22.0
POSITIVE ALL ZONES	10.0 10.0 10.0
NEGATIVE ZONE 2' NEGATIVE ZONE 3'	-28.4 -27.3 -26.8 -44.3 -33.2 -28.4
WALLS	SURFACE PRESSURE (psf)
AREA	10 sf 100 sf 500 sf
NEGATIVE ZONE 4 NEGATIVE ZONE 5 POSITIVE ALL ZONES	-18.7 -16.1 -14.4 -23.0 -17.9 -14.4 17.2 14.7 12.9

ROOF NET UPLIFT: 20 psf (31 psf AT OVERHANGS)

SEISMIC

R=2.0

Cs = 0.068

SEE CALCULATIONS FOR ACTUAL DIAPHRAGM LOADS

* THE DEALER STATES THAT THEY ARE AWARE THAT PANELS ARE FABRICATED PER THESE PLANS, AND THAT ENERGY PANEL STRUCTURES WILL NOT BE HELD RESPONSIBLE FOR ANY MISINTERPRETATIONS OR DIFFERENCES IN THESE APPROVED PLANS FROM ORIGINAL PRINT DOCUMENTS.

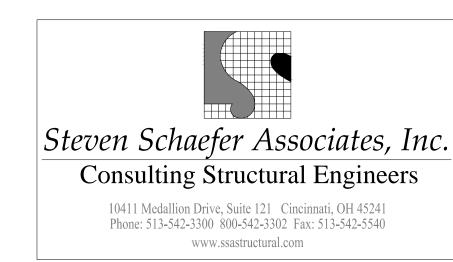
*PANELS WILL BE MANUFACTURED ACCORDING TO NTA LISTING REPORT EPS102108-21

- * SOME DIMENSIONS COULD NOT BE VERIFIED UNTIL CONSTRUCTED. THEREFORE ENERGY PANEL STRUCTURES TAKES NO RESPONSIBILITY FOR FIELD FABRICATION. SOME FIELD FABRICATED AREAS MAY HAVE BEEN HIGHLIGHTED ON THE DRAWINGS BUT MAY NOT BE LIMITED TO ONLY THOSE AREAS.
- * AS SUPPLIER OF MATERIALS ONLY, ENERGY PANEL STRUCTURES DOES NOT ASSUME RESPONSIBILITY FOR ERRORS IN OVERALL BUILDING DESIGN, ENGINEERING, OR DIMENSIONS. DEALER (ARCHITECT, CONTRACTOR, AND/OR INSTALLER) SHALL VERIFY ALL DIMENSIONS AND SIZES, AND BY SIGNING THESE PLANS, THE OWNER TAKES FULL RESPONSIBILITY FOR THEIR ACCURACY.
- * WOOD FRAMING: ALL WOOD CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE PROVISIONS OF THE 2005 EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. UNLESS NOTED OTHERWISE ALL FRAMING LUMBER SHALL BE SPF#2 GRADE.

ALL 134" THICK LVL TO BE BOISE CASCADE 3100Fb, 2.0E MATERIAL ALL LVL MATERIAL THICKER THAN 134" TO BE BOISE CASCADE VERSA-LAM MATERIAL 2650Fb. 1.7E



ENERGY PANEL STRUCTURES
102 EAST INDUSTRIAL PARK
GRAETTINGER, IA 51342
PHONE: 712/859-3219
FAX: 712/859-3275
WWW.EPSBUILDINGS.COM



SHEET	DRAWING INDEX
<u> </u>	COVER PAGE
52	PLANVIEW - NORTH - LOWER PANELS
63	PLANVIEW - SOUTH - LOWER PANELS
54	PLANVIEW - NORTH - UPPER PANELS
65	PLANVIEW - SOUTH - UPPER PANELS
56	ROOF BEAM LAYOUT - NORTH
67	ROOF BEAM LAYOUT - SOUTH - UPPER
58	ROOF BEAM LAYOUT - SOUTH - LOWER
69	ROOF BEAM LAYOUT - WEDGE
S10	WALL PANEL ELEVATIONS
S11	WALL PANEL ELEVATIONS
512	WALL PANEL ELEVATIONS
613	WALL PANEL ELEVATIONS
514	WALL PANEL ELEVATIONS
S15	WALL PANEL ELEVATIONS
516	ROOF PANEL LAYOUT
S17	ROOF PANEL LAYOUT
518	ROOF PANEL LAYOUT
519	DETAIL SECTIONS
520	DETAIL SECTIONS
521	OPENING DETAILS
C1	CONSTRUCTION DETAILS - WALLS
C2	CONSTRUCTION DETAILS - ROOF

- * THIS SET OF PLANS ARE PANEL SHOP PLANS ONLY. OVERALL STRUCTURAL DESIGN OF THIS BUILDING IS BY OTHERS, AND NOT THE RESPONSIBILITY OF ENERGY PANEL STRUCTURES.
- * THIS SET OF PLANS ARE INTENDED TO BE USED BY CONTRACTORS WITH BUILDING CONSTRUCTION KNOWLEDGE.
- * ENERGY PANEL STRUCTURES CAN NOT BE HELD RESPONSIBLE FOR MISUSE OR MISINTERPRETATION OF INFORMATION INCLUDED IN THESE DRAWINGS, OR THE USE OF THIS SET OF PLANS BY PEOPLE WITHOUT BUILDING CONSTRUCTION KNOWLEDGE.
- * SIP PANEL WALL CONSTRUCTION BUILDINGS ARE DESIGNED FOR MINIMAL AIR INFILTRATION. IT IS RECOMMENDED THAT GENERAL CONTRACTOR/OWNER WORKS IN CONJUNCTION WITH A HVAC PROFESSIONAL TO DESIGN A SYSTEM TO INSURE AIR QUALITY AND MOISTURE CONTROL. AIR TO AIR EXCHANGERS ARE RECOMMENDED IN SUCH TYPE STRUCTURES.
- * ALL DOOR AND WINDOW OPENINGS SHOWN ON THIS SET OF PLANS ARE THE ACTUAL SIZE OF THE OPENING PROVIDED. IT IS THE GENERAL CONTRACTOR/OWNER'S RESPONSIBILITY TO VERIFY ALL LOCATIONS AND SIZES OF OPENINGS PRIOR TO CONSTRUCTION.
- * THESE ARE PANEL SHOP DRAWINGS ONLY AND ARE TO BE USED FOR THAT PURPOSE ONLY, CODES REGARDING FIRE SAFTEY, PERSONAL SAFTEY & INJURY ARE NOT ADDRESSED IN THIS SET OF PLANS AND ARE THE RESPONSIBILITY OF THE CONTRACTOR/DEALER.
- * ALL PANELS SHALL BE STORED IN A PROTECTED AREA AND SUPPORTED EVERY 4' TO PREVENT DEFORMATION AND CONTACT WITH THE GROUND. DO NOT USE BLACK OR DARK COLORED TARP. AFTER INSTALLATION, ALL PANELS SHALL BE COVERED TO PREVENT CONTACT WITH WATER ON ALL EXPOSED PANEL EDGES.
- * STICK FRAMED CRICKET ON UPPER ROOF AREAS SHALL BE CONSTRUCTED SUCH THAT ALL STICK FRAMING BEARING ON SIPS IS LOCATED OVER STRUCTURAL FRAMING BELOW. DO NOT PLACE POINT LOADS ON TOP SKIN OF ROOF SIPS WITH NO STRUCTURE BELOW.
- * IT IS THE RESPONSIBILITY OF THE ENGINEER OF RECORD TO VERIFY THAT THE ROOF BAR JOIST SEAT HAVE BEEN DESIGNED TO RESIST OVERTURNING AND ARE CAPABLE OF TRANSFERRING THE DIAPHRAGM LOADS PERPENDICULAR TO THE JOISTS INTO THE STEEL BEAMS.
- * SIP SCREWS INDICATED IN THESE DRAWINGS SHALL BE BY TRUFAST OR EQUAL

- * TO MINIMIZE THE POSSIBILITY OF FASTENER POPPING AND CRACKING IN AREAS ADJACENT TO A WALL AND CEILING INTERSECTION, A FLOATING GYPSUM CORNER ANGLE METHOD OF APPLICATION SHOULD BE USED. PLEASE REFER TO THE GYPSUM ASSOCIATION'S SPECIFICATIONS FOR THE APPLICATION AND FINISHING OF GYPSUM PANEL PRODUCTS.
- * THERE MAY BE SOME "BOWING" OF EXTERIOR STRUCTURAL INSULATED PANELS DUE TO A TEMPERATURE AND MOISTURE DIFFERENTIAL BETWEEN INTERIOR AND EXTERIOR OSB SKINS. WHEN THE EXTERIOR SKIN EXPERIENCES COLD TEMPERATURE, ITS MOISTURE CONTENT RISES, WHICH CAUSES THE EXTERIOR SKIN TO EXPAND. THIS MAY CAUSE THE PANEL TO BOW OUT. TO MINIMIZE THE EFFECT, YOU MAY WANT TO
- A.) HIDE THE "BOW" BY USING FLOATING CORNERS ON THE INTERIOR GYPSUM BOARD.

 B.) MECHANICALLY FASTENING ONE STRUCTURAL INSULATED PANEL TO THE CROSS WALLS. THE CROSS WALL WILL HAVE TO BE DESIGNED TO RESIST FORCES OF THE BOW. AS WILL THE MECHANICAL FASTENERS.

THESE ARE NOT WITHIN THE SCOPE OF THESE DRAWINGS AND MUST BE PROVIDED BY OTHERS IF DESIRED.

- * THE ATTIC OF THIS STRUCTURE MUST BE PROPERLY VENTILATED. CONSULT ON HVAC ENGINEER FOR PROPER SIZING OF EAVE INLETS, RIDGE OPENINGS, END WALL LOUVERS, OR MECHANICAL SYSTEMS. FAILURE TO PROPERLY VENTILATE THE ATTIC MAY CAUSE PARTITION SEPARATE AT ROOF/CEILING, CONDENSATION ON ROOF MATERIALS, LARGER AIR CONDITIONING LOAD, MOLD OR MILDEW, CORROSION OF TRUSS PLATES, PREMATURE DEGRADATION OF STRUCTURAL BUILDING COMPONENTS.
- * SHORING AND BRACING: CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY SHORING AND BRACING
- * INTERIOR FINISH MUST BE COVERED WITH A MINIMUM OF $\frac{1}{2}$ " TYPE X SHEETROCK TO PROVIDE AN ADEQUATE THERMAL BARRIER
- * ANY AND ALL DISCREPANCIES RELATED TO PANELS ON SITE ARE THE RESPONSIBILITY OF DEALER UNLESS THERE IS A DIFFERENCE BETWEEN FABRICATED PANELS AND SIGNED SHOP DRAWINGS. ENERGY PANEL STRUCTURES HOLDS FIRST RIGHT OF DECISION TO REPLACE, REPAIR OR PAY FOR REPAIR OF ALL PRODUCTS IN DISCREPANCY WITH FINAL SHOP DRAWINGS.

GENERAL INFORMATION

DEALER:

ESTES CONSTRUCTION

131 WEST 2ND ST, SUITE 400

DAVENPORT, IA 52801

PHONE: (563) 322-7301

FAX: (563) 322-2503

OWNER:

SILVIS MIDDLE SCHOOL SILVIS SCHOOL DISTRICT 34 SILVIS, IL

BUILDING TYPE:

SOLID CORE PANELS

DRAWN:

DMM

REVIEWED BY:

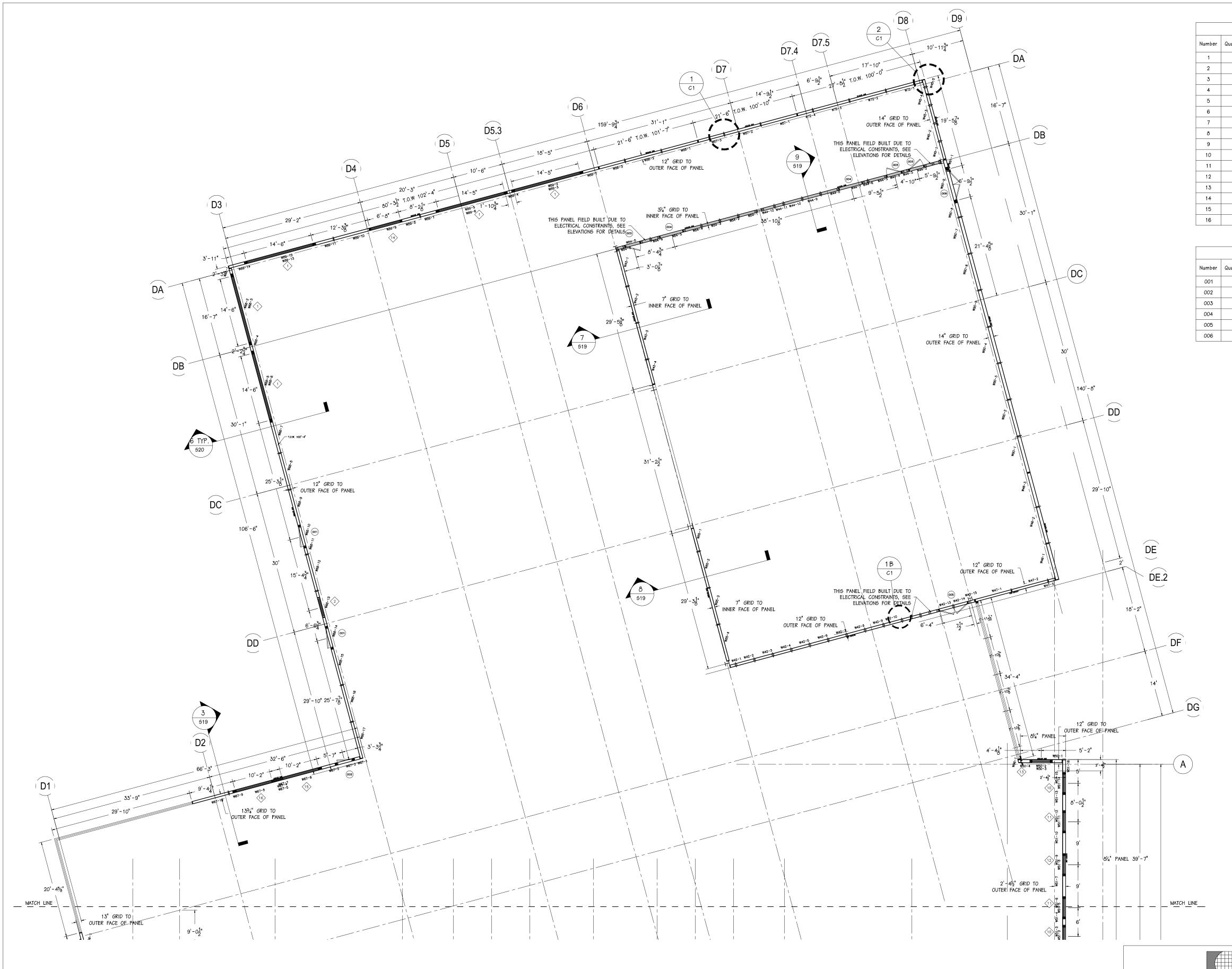
DATE: 5/04/0011

5/24/2011 7/13/2011 8/8/2011

REV:

JOB #:

2011/HOUSING/74979



					WINDOW SCHEDULE		
Number	Quantity	Rough Width	Rough Height	Head Height	Header	Bearing Studs (Each Side)	Full Studs (Each Side)
1	5	14'-6"	9'-4 3/4"	10'-8"	(2) 1-3/4"X11-1/4" LVL LAMINATED HEADER, SPF 2x6 BELOW	1	3
2	1	4'-2"	2'-1 1/2"	5'-0"	NONE (SIP HEADER ABOVE)		
3	6	14'-7 1/2"	9'-8 3/4"	10'-10"	(2) 1-3/4"X11-1/4" LVL LAMINATED HEADER, SPF 2x6 BELOW	1	3
4	2	7'-5 1/2"	9'-8 3/4"	10'-10"	(2) 1-3/4"X11-1/4" LVL LAMINATED HEADER, SPF 2x6 BELOW	1	2
5	2	8'-2"	2'-1 1/2"	5'-0"	(2) SPF 2x6 FLAT	0	2
6	2	8'-2"	2'-1 1/2"	8'-0"	(2) SPF 2x6 FLAT	0	2
7	2	8'-2"	2'-1 1/2"	7'-0"	(2) SPF 2x6 FLAT	0	2
δ	1	8'-5 1/2"	9'-0 1/4"	9'-0 1/4"	(2) 1-3/4"X11-1/4" LVL LAMINATED HEADER, SPF 2x6 BELOW	1	2
9	1	8'-6 1/2"	9'-0 1/4"	9'-0 1/4"	(2) 1-3/4"X11-1/4" LVL LAMINATED HEADER, SPF 2x6 BELOW	1	2
10	2	4'-2"	2'-1 1/2"	9'-0"	(2) SPF 2x8 FLAT	0	(2) 2x8
11	2	4'-2"	2'-1 1/2"	5'-6"	(2) SPF 2x8 FLAT	0	(2) 2x8
12	1	4'-2"	2'-1 1/2"	7'-6"	(2) SPF 2x8 FLAT	0	(2) 2x8
13	1	4'-2"	2'-1 1/2"	7'-0"	(2) SPF 2x8 FLAT	0	(2) 2x8
14	1	6'-8"	10'-10 1/4"	10'-10 1/4"	(2) SPF 2x6 FLAT	0	2
15	1	10'-2"	2'-1 1/2"	5'-0"	(2) SPF 2x6 FLAT	0	4
16	1	10'-2"	2'-1 1/2"	8'-0"	(3) SPF 2x6 FLAT	0	4

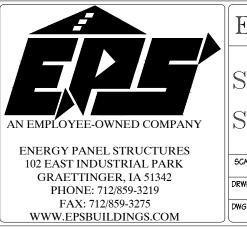
	DOOR OPENING SCHEDULE							
Number	Quantity	Rough Width	Rough Height	Head Height	Header	Bearing Stude (Each Side)	Full Studs (Each Side)	
001	2	4'-6"	7'-2 1/4"	7'-2 1/4"	(2) SPF 2x6 FLAT	0	1	
002	1	3'-6"	9'-0 1/4"	9'-0 1/4"	(2) SPF 2x6 FLAT	0	2	
003	3	3'-4 1/2"	7'-2 1/2"	7'-2 1/2"	(2) SPF 2x6 FLAT	0	5-1/4"x5-1/4" VERSA-LAM COLUMN	
004	2	5'-1 1/2"	8'-1 1/2"	8'-1 1/2"	(2) SPF 2x6 FLAT	0	5-1/4"x5-1/4" VERSA-LAM COLUMN	
005	1	6'-4 1/2"	7'-2 1/2"	7'-2 1/2"	(2) SPF 2x6 FLAT	0	5-1/4"x5-1/4" VERSA-LAM COLUMN	
006	1	6'-9 1/2"	7'-2 1/4"	7'-2 1/4"	(2) 1-3/4"X11-1/4" LVL LAMINATED HEADER, SPF 2x8 BELOW	1	2	

WALL PANELS ARE 61/2" SIPs, UNLESS NOTED OTHERWISE



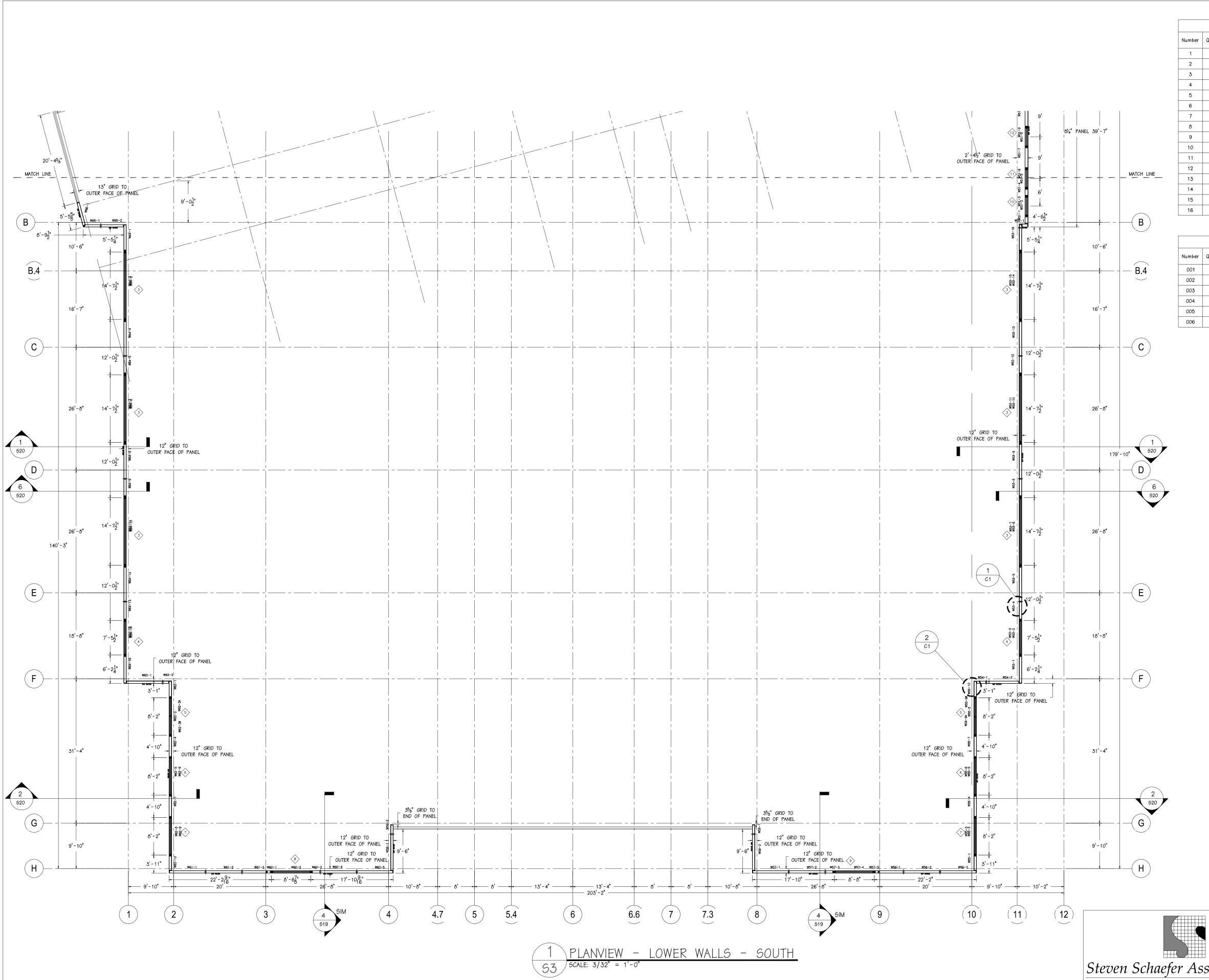
Consulting Structural Engineers 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 Phone: 513-542-3300 800-542-3302 Fax: 513-542-5540

www.ssastructural.com



ESTES CONSTRUCTION SILVIS MIDDLE SCHOOL SOLID CORE PANEL PACKAGE

SCALE: NOTED DATE: 5/24/11 DRWN BY: DMM REVIEWED BY: RGW REV. 8/8/2011 DWG NO. 2011/HOUSE/74979



					WINDOW SCHEDULE		
Number	Quantity	Rough Width	Rough Height	Head Height	Header	Bearing Stude (Each Side)	Full Studs (Each Side)
1	5	14'-6"	9'-4 3/4"	10'-8"	(2) 1-3/4"X11-1/4" LVL LAMINATED HEADER, SPF 2x6 BELOW	1	3
2	1	4'-2"	2'-1 1/2"	5'-0"	NONE (SIP HEADER ABOVE)		
3	6	14'-7 1/2"	9'-8 3/4"	10'-10"	(2) 1-3/4"X11-1/4" LVL LAMINATED HEADER, SPF 2x6 BELOW	1	3
4	2	7'-5 1/2"	9'-8 3/4"	10'-10"	(2) 1-3/4"X11-1/4" LVL LAMINATED HEADER, SPF 2x6 BELOW	1	2
5	2	8'-2"	2'-1 1/2"	5'-0"	(2) SPF 2x6 FLAT	0	2
6	2	8'-2"	2'-1 1/2"	8'-0"	(2) SPF 2x6 FLAT	0	2
7	2	8'-2"	2'-1 1/2"	7'-0"	(2) SPF 2x6 FLAT	0	2
8	1	8'-5 1/2"	9'-0 1/4"	9'-0 1/4"	(2) 1-3/4"X11-1/4" LVL LAMINATED HEADER, SPF 2x6 BELOW	1	2
9	1	8'-6 1/2"	9'-0 1/4"	9'-0 1/4"	(2) 1-3/4"X11-1/4" LVL LAMINATED HEADER, SPF 2x6 BELOW	1	2
10	2	4'-2"	2'-1 1/2"	9'-0"	(2) SPF 2x8 FLAT	0	(2) 2x8
11	2	4'-2"	2'-1 1/2"	5'-6"	(2) SPF 2x8 FLAT	0	(2) 2x8
12	1	4'-2"	2'-1 1/2"	7'-6"	(2) SPF 2x8 FLAT	0	(2) 2x8
13	1	4'-2"	2'-1 1/2"	7'-0"	(2) SPF 2x8 FLAT	0	(2) 2x8
14	1	6'-8"	10'-10 1/4"	10'-10 1/4"	(2) SPF 2x6 FLAT	0	2
15	1	10'-2"	2'-1 1/2"	5'-0"	(2) SPF 2x6 FLAT	0	4
16	1	10'-2"	2'-1 1/2"	8'-0"	(3) SPF 2x6 FLAT	0	4

	DOOR OPENING SCHEDULE								
Number	Quantity	Rough Width	Rough Height	Head Height	Header	Bearing Studs (Each Side)	Full Studs (Each Side)		
001	2	4'-6"	7'-2 1/4"	7'-2 1/4"	(2) SPF 2x6 FLAT	0	1		
002	1	3'-6"	9'-0 1/4"	9'-0 1/4"	(2) SPF 2x6 FLAT	0	2		
003	3	3'-4 1/2"	7'-2 1/2"	7'-2 1/2"	(2) 9PF 2x6 FLAT	0	5-1/4"x5-1/4" VERSA-LAM COLUMN		
004	2	5'-1 1/2"	8'-1 1/2"	8'-1 1/2"	(2) 9PF 2x6 FLAT	0	5-1/4"x5-1/4" VERSA-LAM COLUMN		
005	1	6'-4 1/2"	7'-2 1/2"	7'-2 1/2"	(2) 9PF 2x6 FLAT	0	5-1/4"x5-1/4" VERSA-LAM COLUMN		
006	1	6'-9 1/2"	7'-2 1/4"	7'-2 1/4"	(2) 1-3/4"X11-1/4" LVL LAMINATED HEADER, SPF 2x8 BELOW	1	2		

WALL PANELS ARE 61/2" SIPs, UNLESS NOTED OTHERWISE

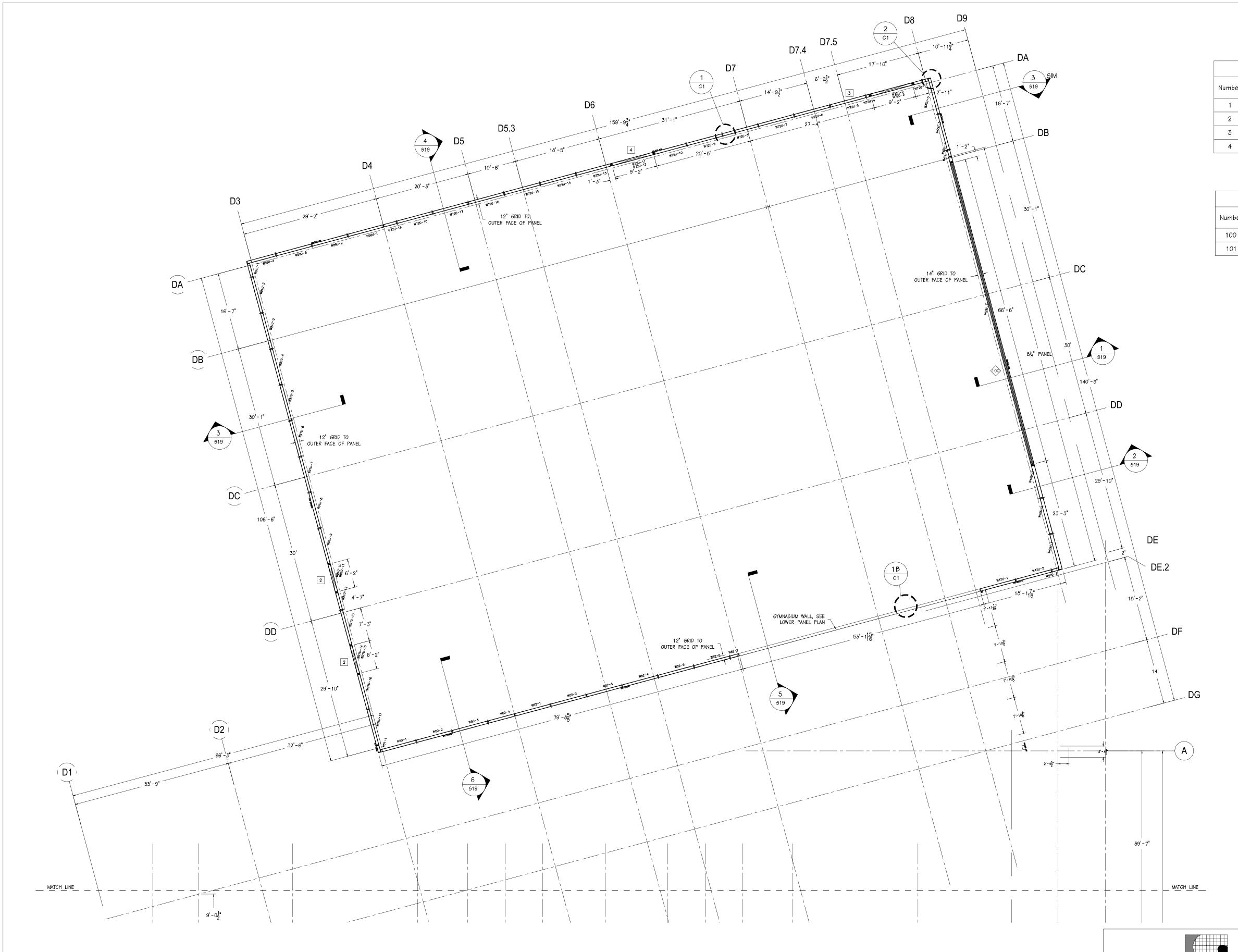


10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 Phone: 513-542-3300 800-542-3302 Fax: 513-542-5540 www.ssastructural.com

ENERGY PANEL STRUCTURES 102 EAST INDUSTRIAL PARK GRAETTINGER, IA 51342 PHONE: 712/859-3219 FAX: 712/859-3275 WWW.EPSBUILDINGS.COM

ESTES CONSTRUCTION SILVIS MIDDLE SCHOOL SOLID CORE PANEL PACKAGE

SCALE: NOTED DATE: 5/24/11 REV. 7/13/11 REV. 8/8/2011 DRWN BY: DMM REVIEWED BY: RGW DWG NO. 2011/HOUSE/74979



	MECHANICAL OPENING SCHEDULE									
Number	Quantity	Rough Width	Rough Height	Head Height	Header	Bearing Studs (Each Side)	Full Studs (Each Side)			
1	4	4'-2"	3'-1½"	22'-6"	(2) SPF#2 2x6 FLAT	0	1			
2	2	6'-2"	3'-1½"	21'-8"	(2) SPF#2 2x6 FLAT	0	1			
3	2	9'-2"	3'-11/2"	25'-6"	(2) SPF#2 2x6 FLAT	0	3			
4	2	9'-2"	3'-11/2"	25'-6"	(2) SPF#2 2x6 FLAT	0	2			

	WINDOW SCHEDULE								
Number	Quantity	Rough Width	Rough Height	Head Height	Header	Bearing Studs (Each Side)	Full Studs (Each Side)		
100	1	66'-6"	11'-10 1/2"	12'-1 5/8"	INFILL BY OTHERS	0	2		
101	1	102'-2"	3'-9 1/2"	9'-7 1/4"	(2) SPF 2x6 FLAT	0	2		

WALL PANELS ARE 6½" SIPs, UNLESS NOTED OTHERWISE





10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 Phone: 513-542-3300 800-542-3302 Fax: 513-542-5540 www.ssastructural.com



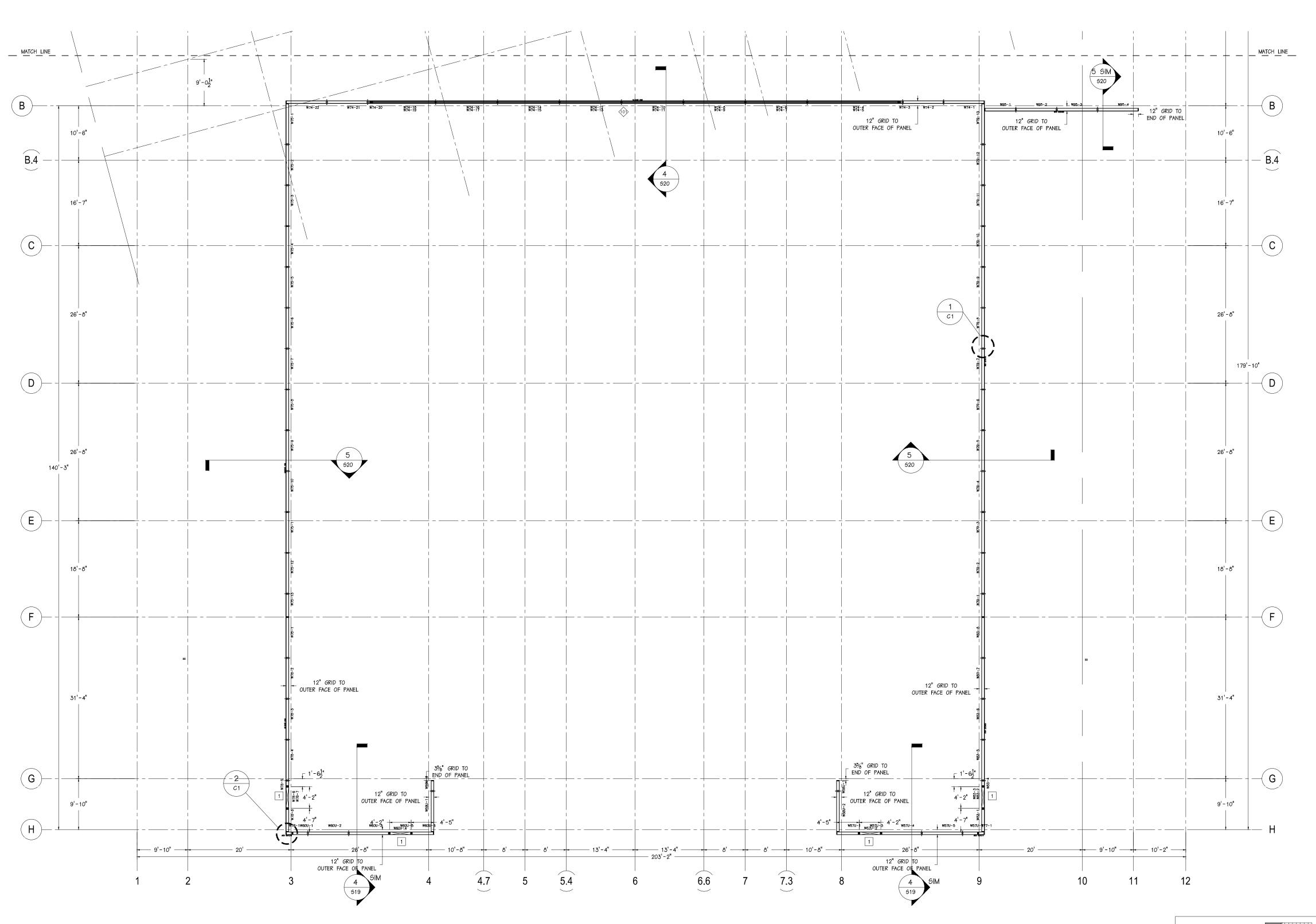
ESTES CONSTRUCTION

SILVIS MIDDLE SCHOOL
SOLID CORE PANEL PACKAGE

 SCALE:
 NOTED
 DATE:
 5/24/11
 REV.
 7/13/11

 DRWN BY:
 DMM
 REVIEWED BY:
 RGW
 REV.
 8/8/2011

 DWG NO.
 2011/H0USE/74979
 REV.
 0



MECHANICAL OPENING SCHEDULE										
Number	Quantity	Rough Width	Rough Height	Head Height	Header	Bearing Studs (Each Side)	Full Studs (Each Side)			
1	4	4'-2"	3' - 1½"	22'-6"	(2) SPF#2 2x6 FLAT	0	1			
2	2	6'-2"	3'-1½"	21'-8"	(2) SPF#2 2x6 FLAT	0	1			
3	2	9'-2"	3' - 1½"	25'-6"	(2) SPF#2 2x6 FLAT	0	3			
4	2	9'-2"	3'-1½"	25'-6"	(2) SPF#2 2x6 FLAT	0	2			

WINDOW SCHEDULE								
Number	Quantity	Rough Width	Rough Height	Head Height	Header	Bearing Stude (Each Side)	Full Studs (Each Side)	
100	1	66'-6"	11'-10 1/2"	12'-1 5/8"	INFILL BY OTHERS	0	2	
101	1	102'-2"	3'-9 1/2"	9'-7 1/4"	(2) SPF 2x6 FLAT	0	2	

WALL PANELS ARE 6½" SIPS, UNLESS NOTED OTHERWISE





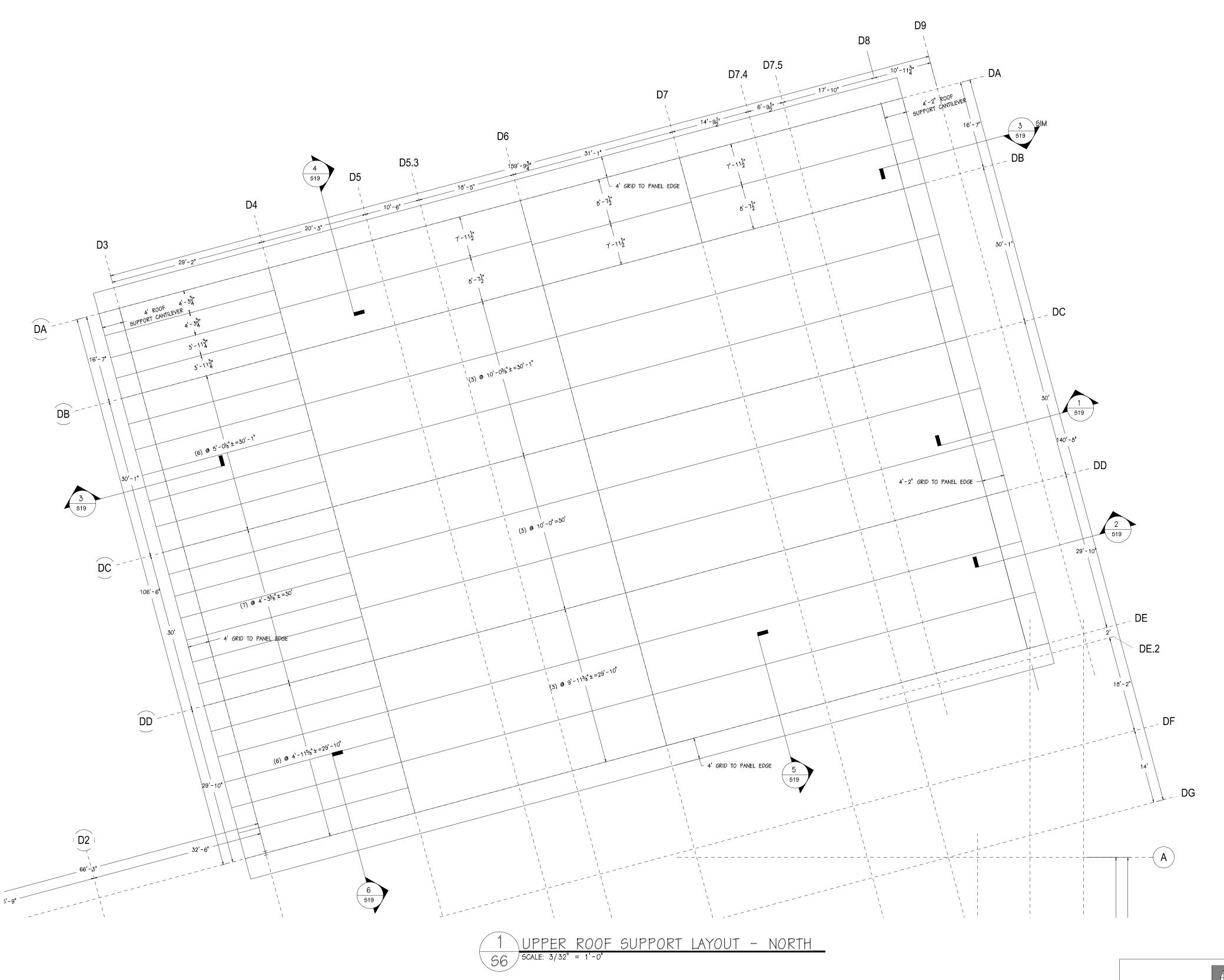
10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 Phone: 513-542-3300 800-542-3302 Fax: 513-542-5540 www.ssastructural.com

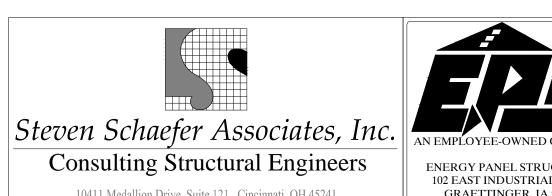


ESTES CONSTRUCTION SILVIS MIDDLE SCHOOL SOLID CORE PANEL PACKAGE REV. 7/13/11

GCALE: NOTED DATE: 5/24/11

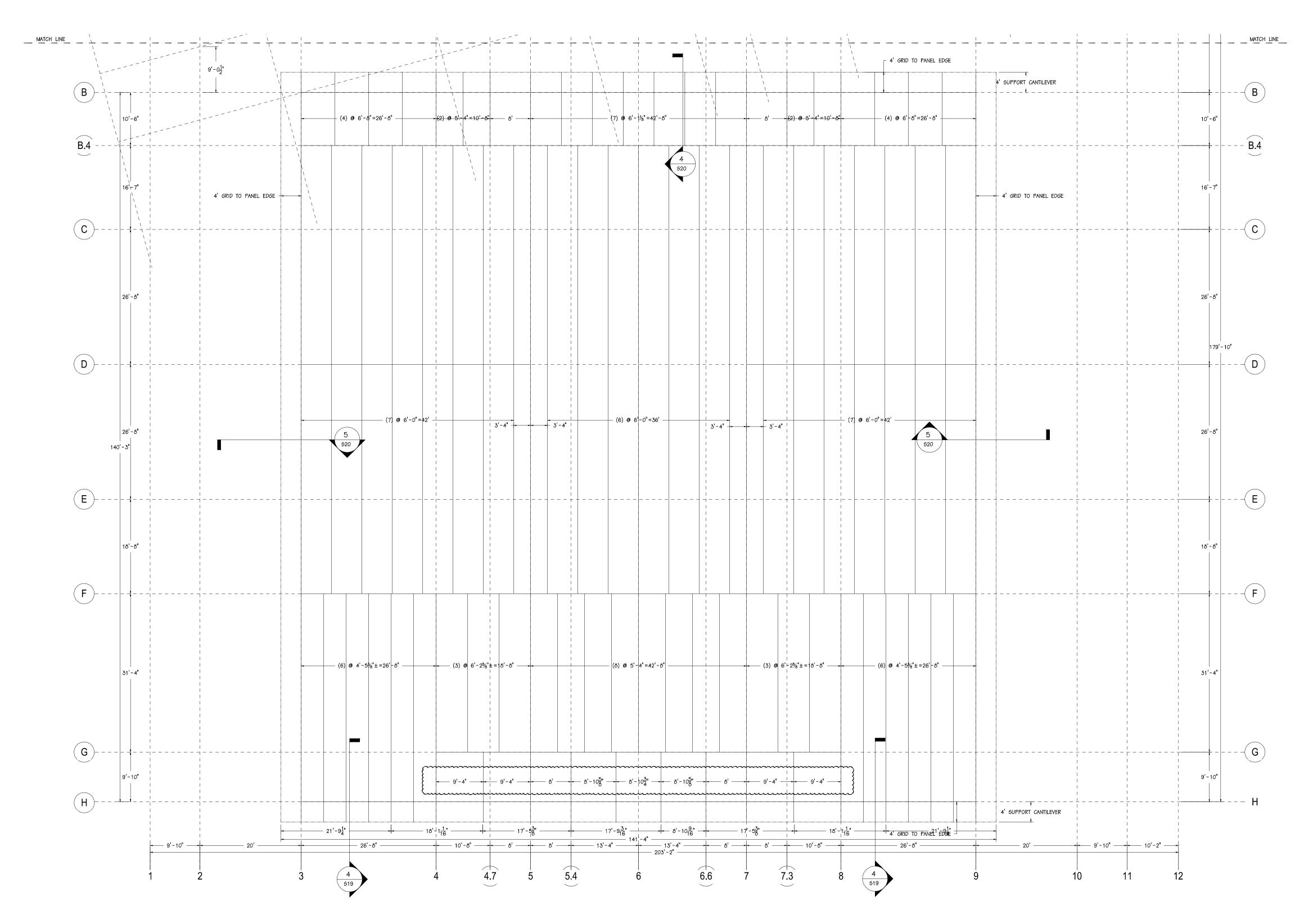
DRWN BY: DMM REVIEWED BY: RGW REV. 8/8/2011 DWG NO. 2011/HOUSE/74979





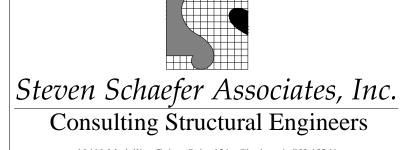
ENERGY PANEL STRUCTURES 102 EAST INDUSTRIAL PARK GRAETTINGER, IA 51342 PHONE: 712/859-3219 FAX: 712/859-3275 WWW.EPSBUILDINGS.COM 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 Phone: 513-542-3300 800-542-3302 Fax: 513-542-5540 www.ssastructural.com

ESTES CONSTRUCTION SILVIS MIDDLE SCHOOL SOLID CORE PANEL PACKAGE GCALE: NOTED DATE: 5/24/11 DRWN BY: DMM REVIEWED BY: RGW DWG NO. 2011/HOUSE/74979

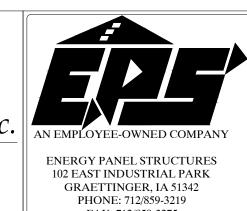


1 UPPER ROOF SUPPORT LAYOUT - SOUTH

S7 SCALE: 3/32" = 1'-0"



10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 Phone: 513-542-3300 800-542-3302 Fax: 513-542-5540 www.ssastructural.com



ESTES CONSTRUCTION

SILVIS MIDDLE SCHOOL

SOLID CORE PANEL PACKAGE

ENERGY PANEL STRUCTURES

102 EAST INDUSTRIAL PARK
GRAETTINGER, IA 51342
PHONE: 712/859-3219
FAX: 712/859-3275
WWW.EPSBUILDINGS.COM

PATE: 5/24/11

PRIV. 7/13/11

PRIV. 8/8/2011

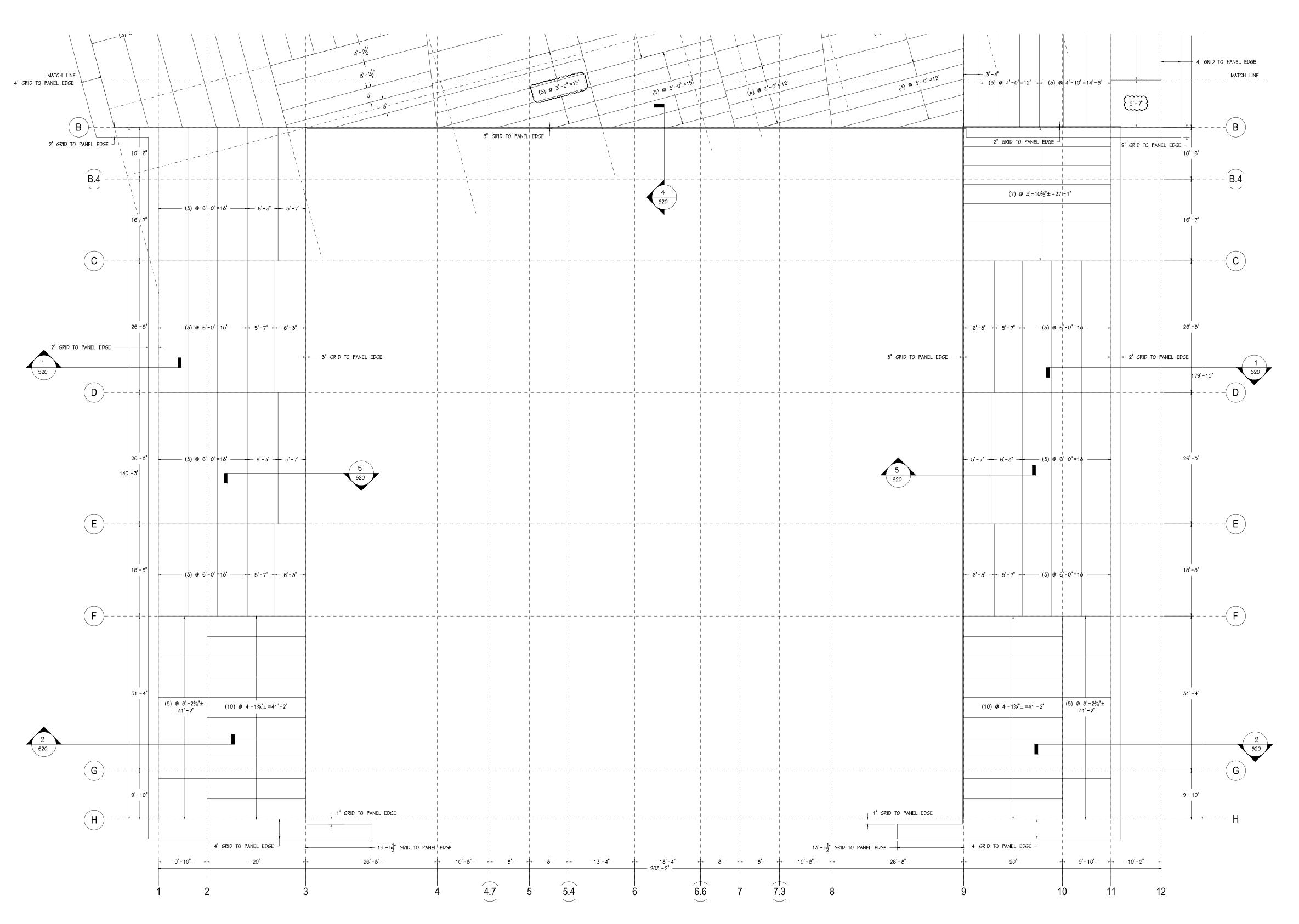
PRIV. 8/8/2011

PRIV. 8/8/2011

PRIV. 8/8/2011

PRIV. 8/8/2011

PRIV. 8/8/2011



1 LOWER ROOF SUPPORT LAYOUT - SOUTH
S8 SCALE: 3/32" = 1'-0"

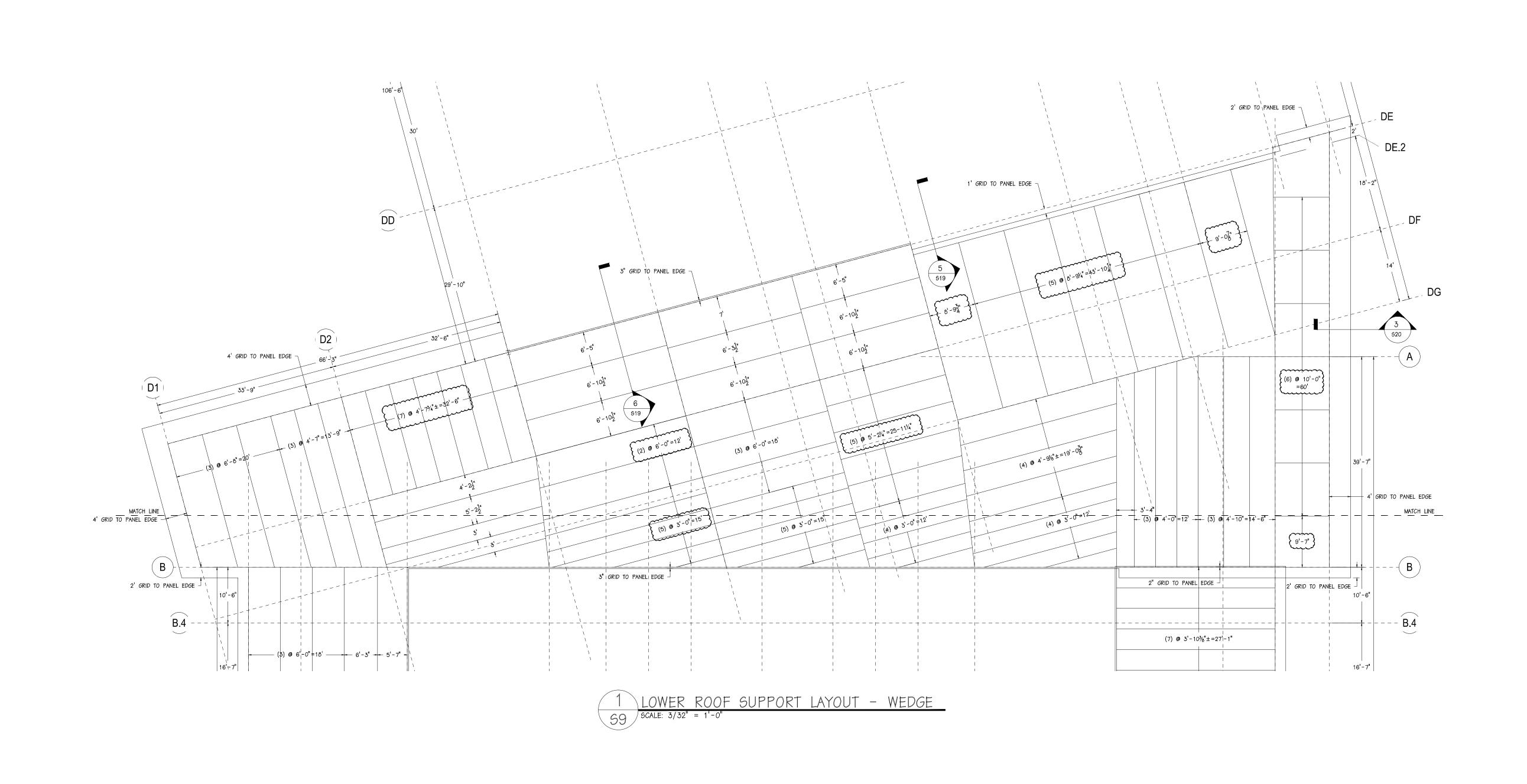


10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 Phone: 513-542-3300 800-542-3302 Fax: 513-542-5540 www.ssastructural.com



	ESTES	CONS	TRUC	CTIC)N	
MPANY		MIDDI CORE				KAGE
URES ARK 42	SCALE: NOTED DRWN BY: DMM	DATE: 5/24/11 REVIEWED BY: RGW		PEV .	3/11	9HEET:

DWG NO. 2011/HOUSE/74979





10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 Phone: 513-542-3300 800-542-3302 Fax: 513-542-5540 www.ssastructural.com



ESTES CONSTRUCTION

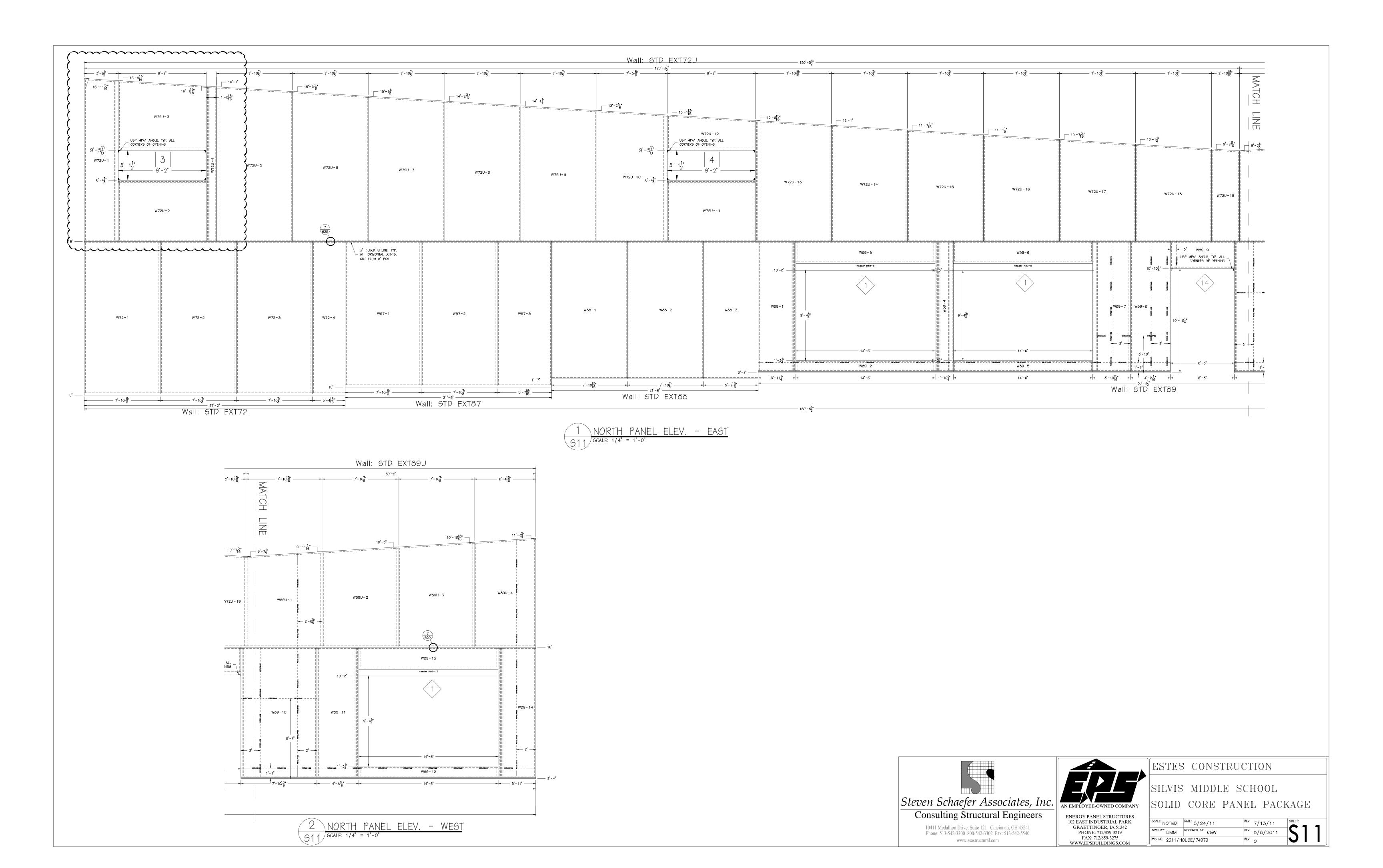
SILVIS MIDDLE SCHOOL

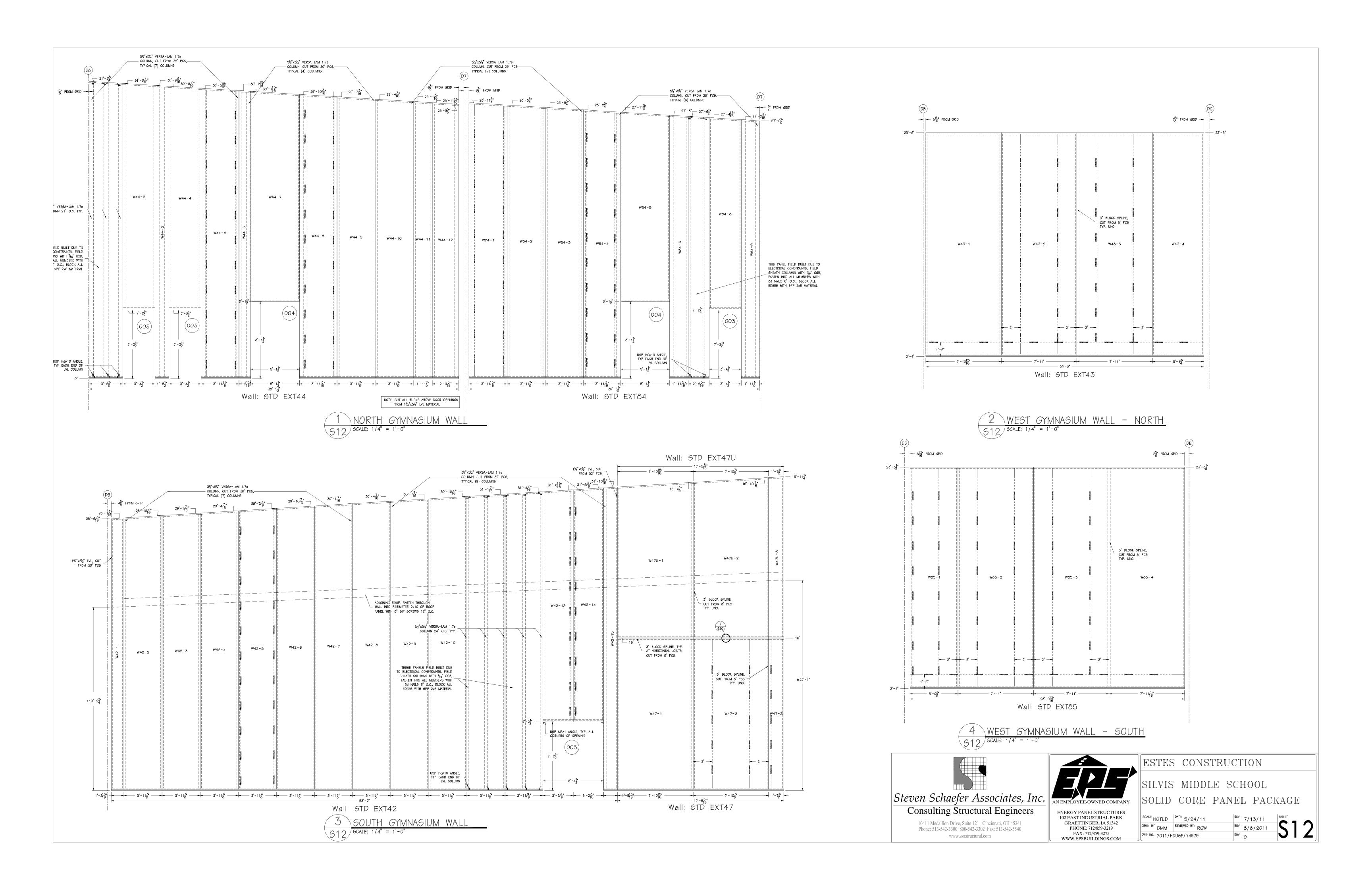
SOLID CORE PANEL PACKAGE

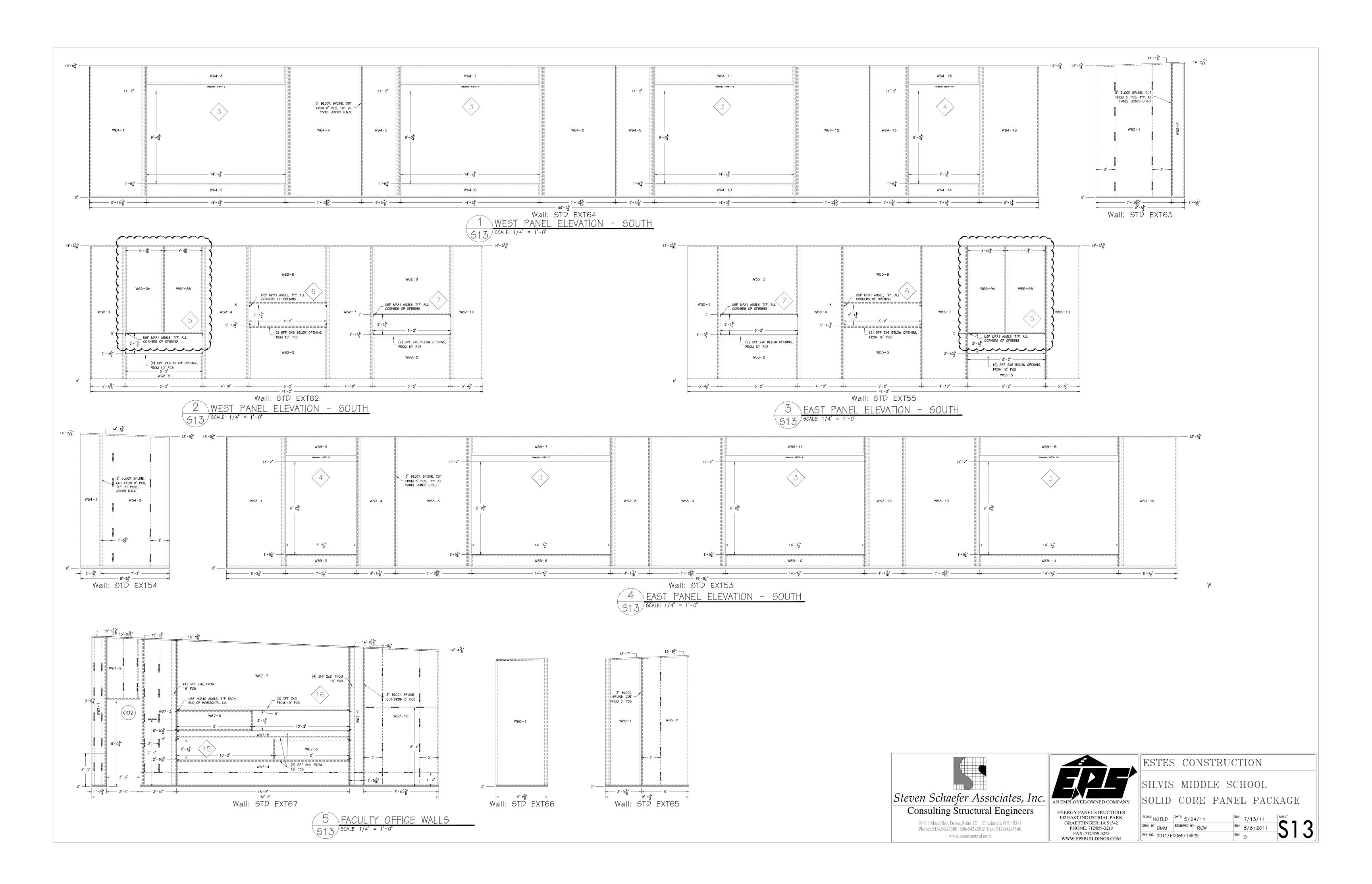
SCALE: NOTED DATE: 5/24/11 REV. 7/13/11 SHEET:
DRWN BY: DMM REVIEWED BY: RGW REV. 8/8/2011

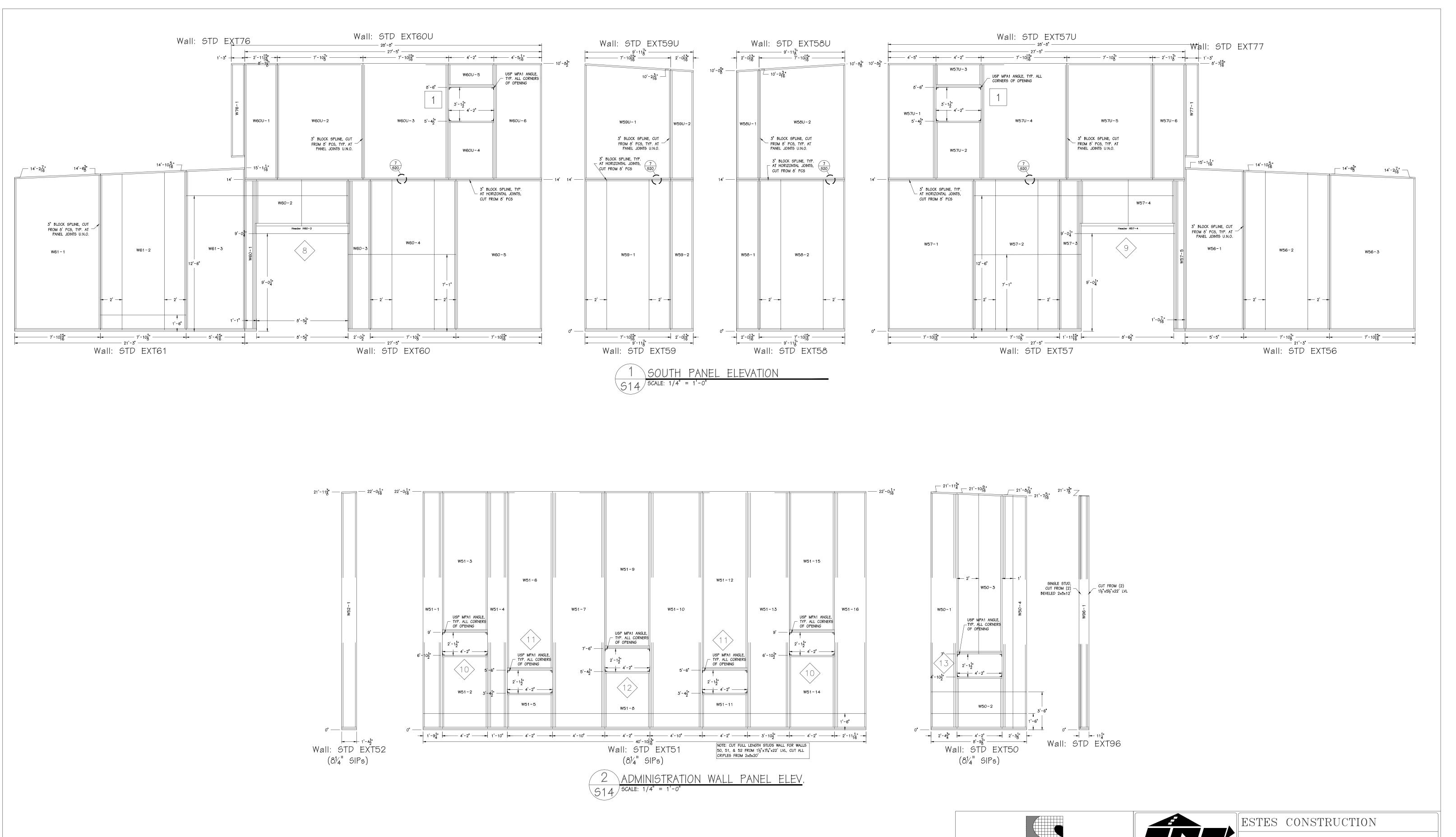
DWG NO. 2011/HOUSE/74979





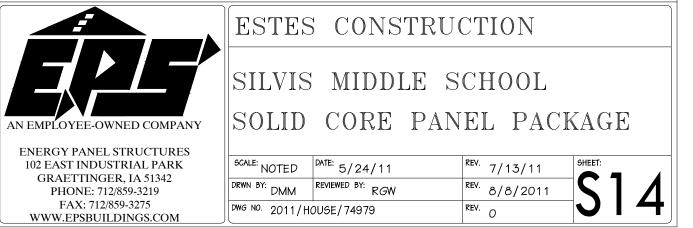


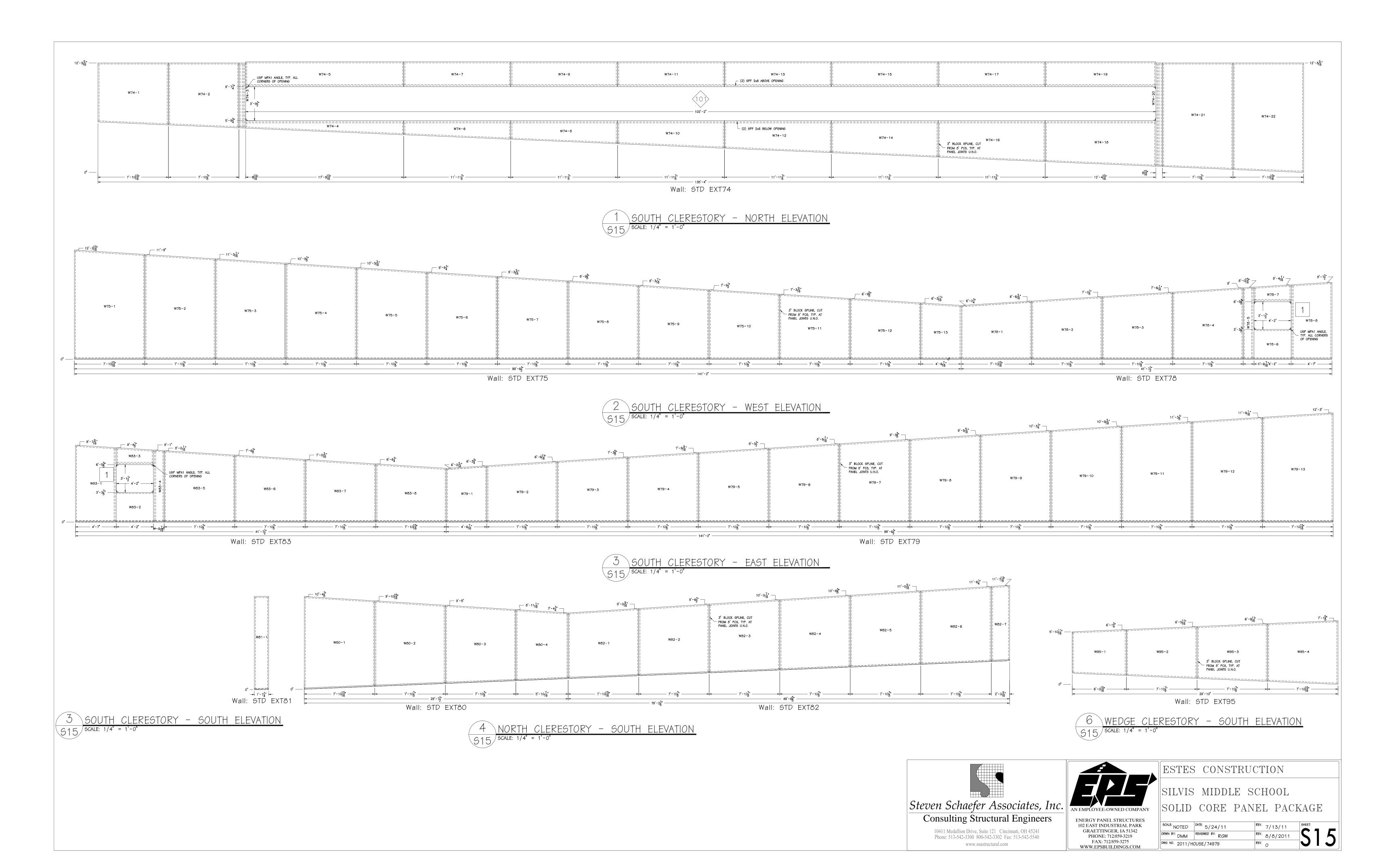




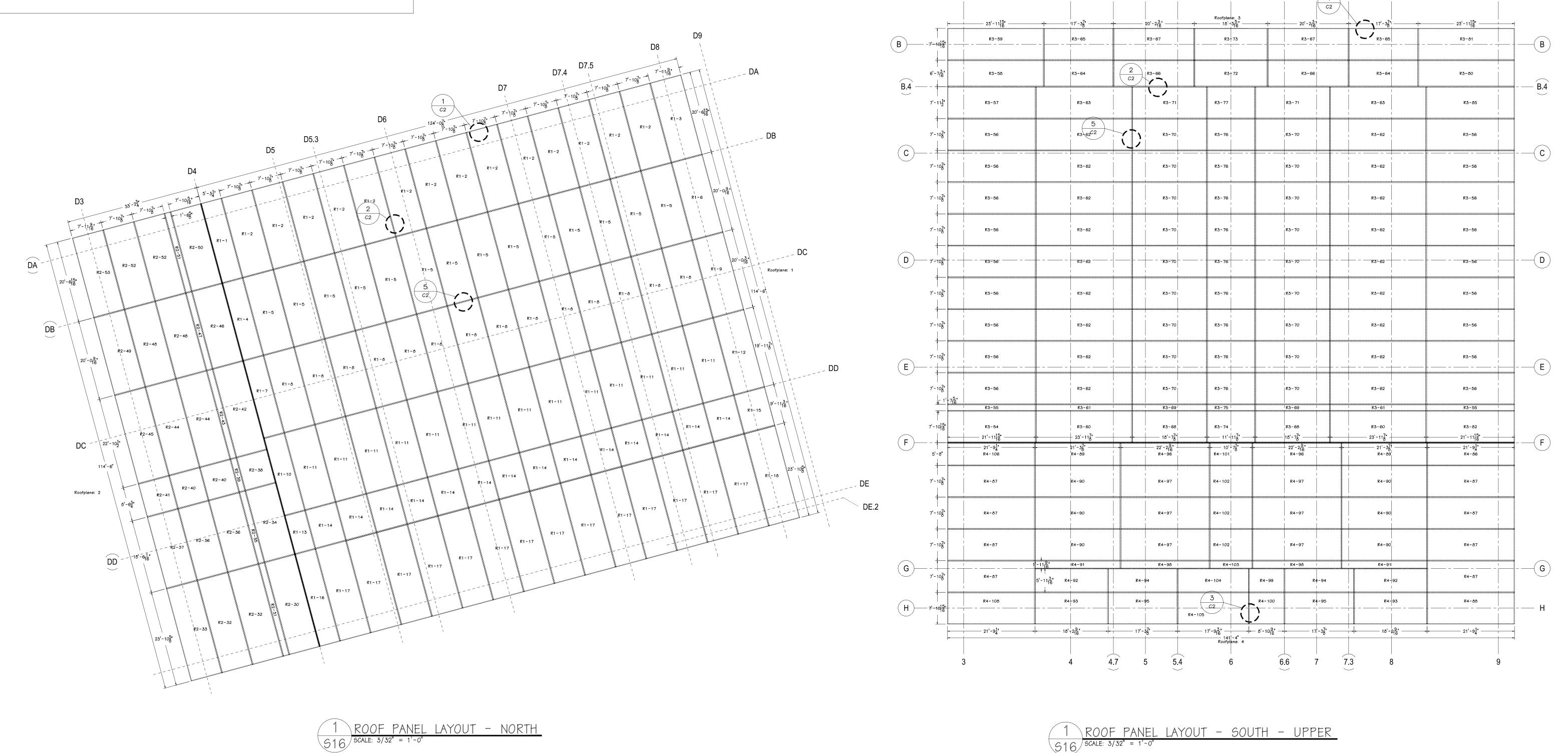


www.ssastructural.com





CRICKET FRAMING INDICATED ON A301 SHALL BE CONSTRUCTED SUCH THAT ALL SUPORT POSTS ARE LOCATED OVER BAR JOISTS BELOW THE SIPS, OR THE LOAD IS DISTRIBUTED TO THE SIPS BY A MINIMUM 1'-0" LONG SECTION OF 2x12 ON THE FLAT. RESIST UPLIFT FORCES IS THE RESPONSIBILITY OF THE ENGINEER OF RECORD



FIELD LOCATE AND CUT ALL ROOF OPENINGS, ALL OPENINGS SHALL BE REINFORCED WITH SPF 2x10 FRAMING, SEE 7/C2, OPENINGS LARGER THAN 12"x12" SHALL BE SUPPORTED PER STRUCTURAL DETAIL 3/5301

ROOF PANELS ARE 101/4" SIPs, UNLESS NOTED OTHERWISE



Steven Schaefer Associates, Inc. Consulting Structural Engineers

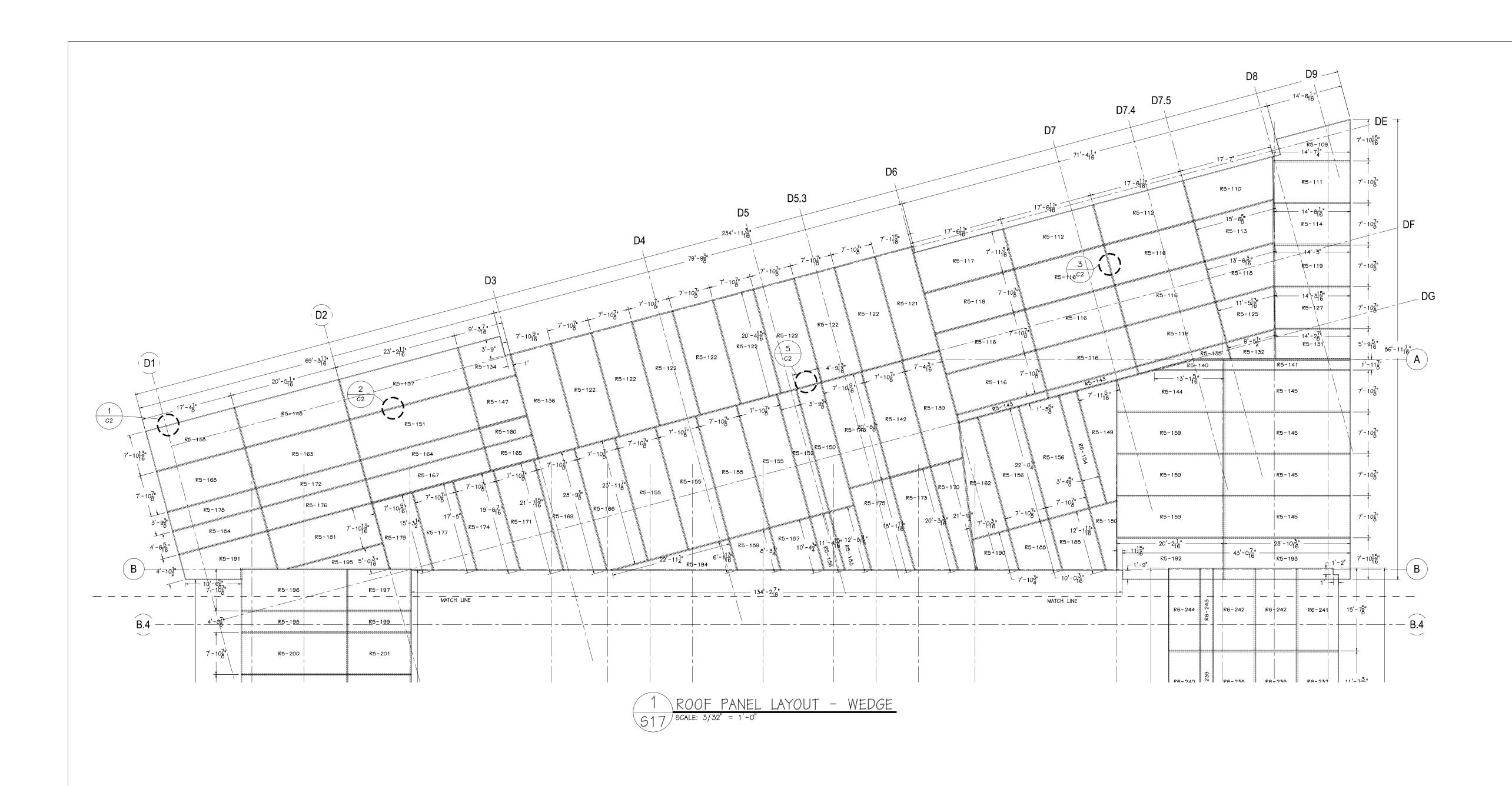
10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 Phone: 513-542-3300 800-542-3302 Fax: 513-542-5540 www.ssastructural.com



ESTES CONSTRUCTION

SILVIS MIDDLE SCHOOL SOLID CORE PANEL PACKAGE

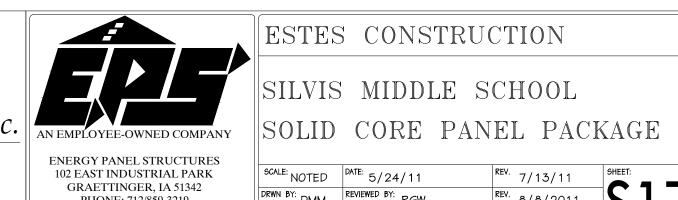
GCALE: NOTED DATE: 5/24/11



ROOF PANELS ARE 101/4" SIPs, UNLESS NOTED OTHERWISE



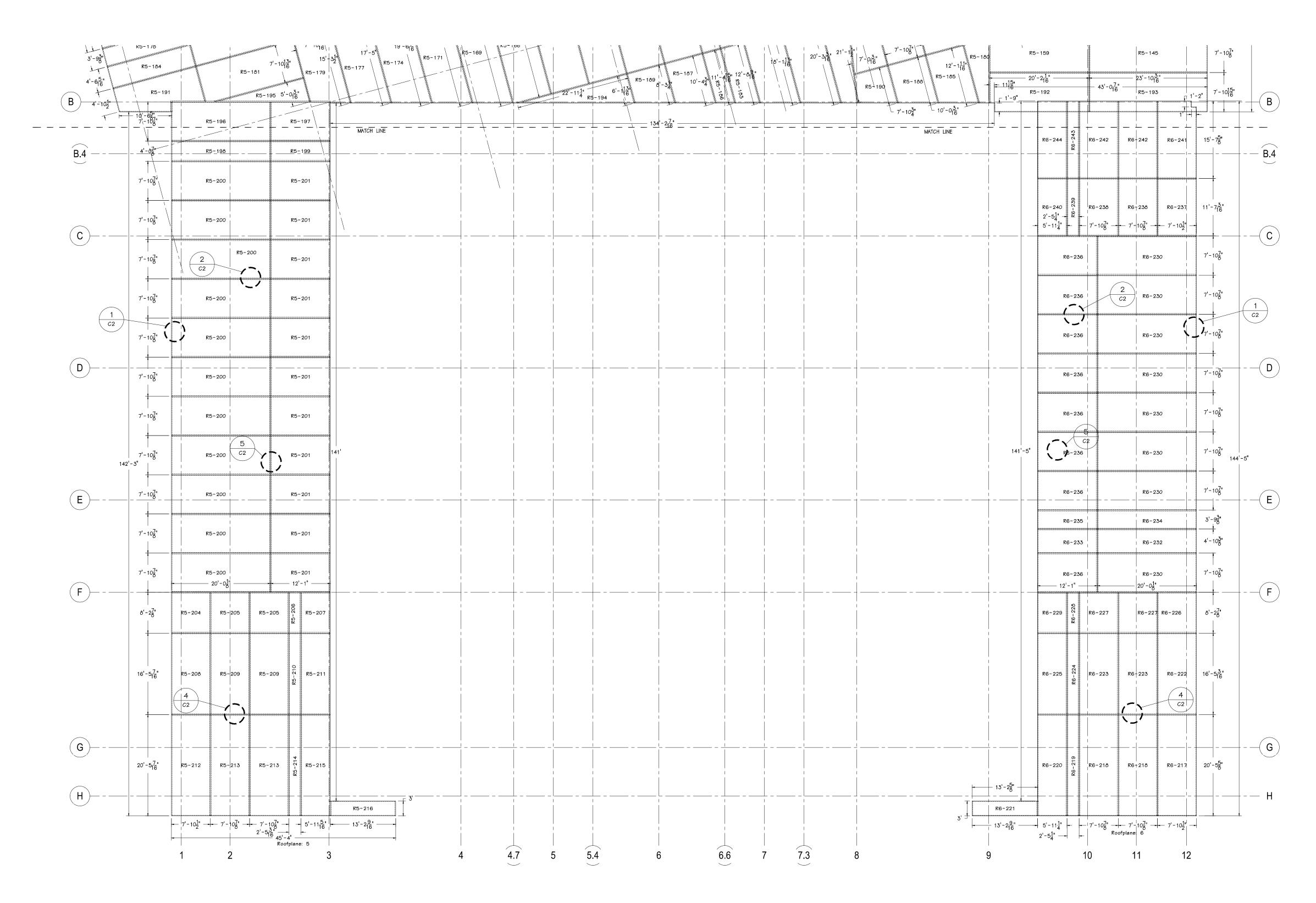
10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 Phone: 513-542-3300 800-542-3302 Fax: 513-542-5540 www.ssastructural.com



ESTES CONSTRUCTION SILVIS MIDDLE SCHOOL

FAX: 712/859-3275 WWW.EPSBUILDINGS.COM

FIELD LOCATE AND CUT ALL ROOF OPENINGS, ALL OPENINGS SHALL BE REINFORCED WITH SPF 2x10 FRAMING, SEE 7/C2, OPENINGS LARGER THAN 12"x12" SHALL BE SUPPORTED PER STRUCTURAL DETAIL 3/9301



1 ROOF PANEL LAYOUT - SOUTH - LOWER

518 SCALE: 3/32" = 1'-0"

ROOF PANELS ARE 101/4" SIPs, UNLESS NOTED OTHERWISE

FIELD LOCATE AND CUT ALL ROOF OPENINGS, ALL OPENINGS SHALL BE REINFORCED WITH SPF 2x10 FRAMING, SEE 7/C2, OPENINGS LARGER THAN 12"x12" SHALL BE SUPPORTED PER STRUCTURAL DETAIL 3/S301



10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 Phone: 513-542-3300 800-542-3302 Fax: 513-542-5540 www.ssastructural.com



ESTES CONSTRUCTION

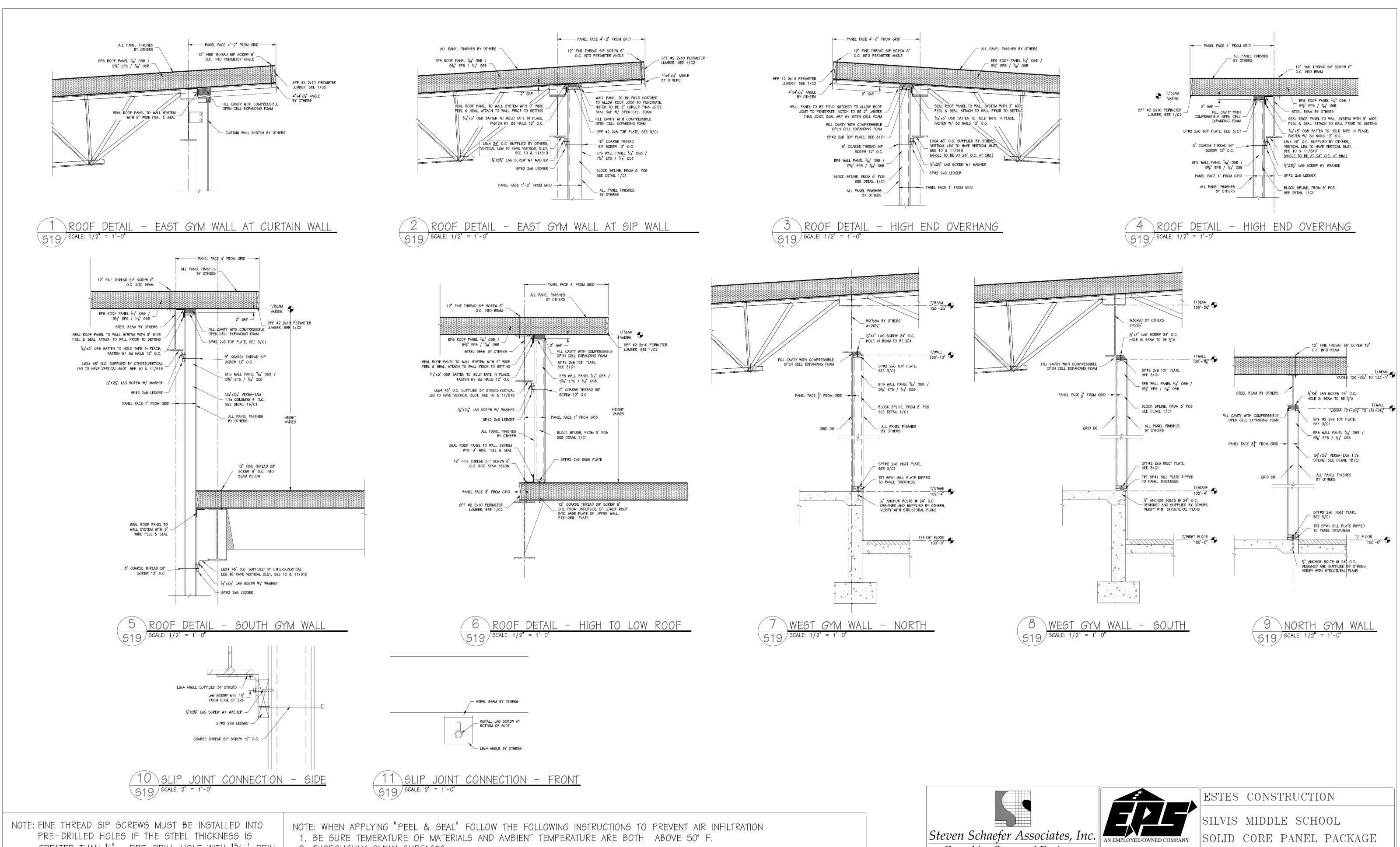
SILVIS MIDDLE SCHOOL

SOLID CORE PANEL PACKAGE

ENERGY PANEL STRUCTURES

102 EAST INDUSTRIAL PARK
GRAETTINGER, IA 51342
PHONE: 712/859-3219
FAX: 712/859-3275
WWW.EPSBUILDINGS.COM

GCALE: NOTED
DATE: 5/24/11
DRWN BY: DMM
REVIEWED BY: RGW
DWG NO. 2011/HOUSE/74979



GREATER THAN 1/4". PRE-DRILL HOLE WITH 15/64" DRILL

2. THOROUGHLY CLEAN SURFACES.

3. APPLY SPRAY ADHESIVE PRIMER (BY OTHERS) TO A CLEAN SURFACE.

4. APPLY "PEEL & SEEL" OR ICE & WATER, BE SURE TO APPLY PRESSURE THROUGH OUT MATERIAL TO ENSURE 100% CONTACT.



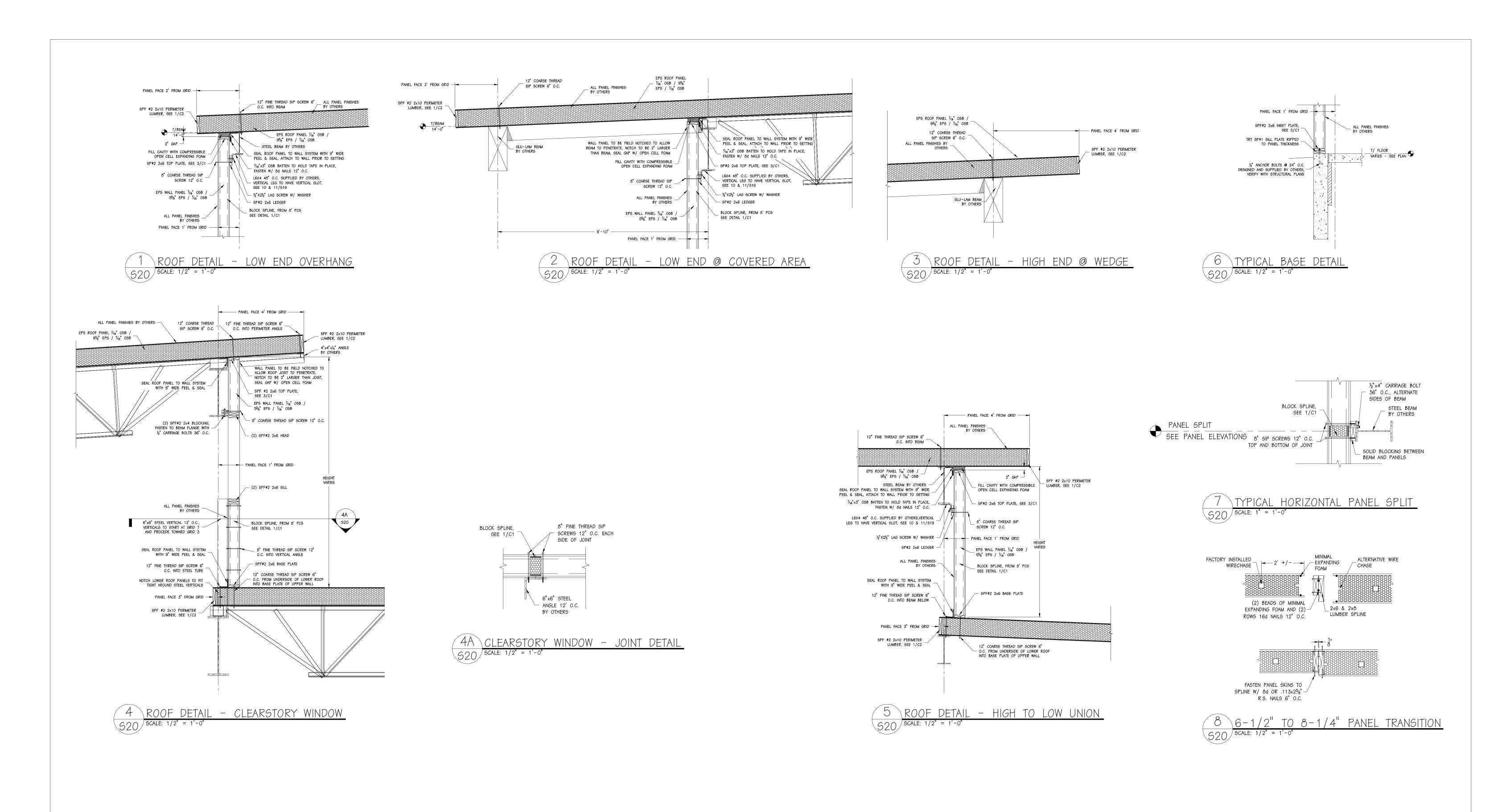
www.ssastructural.com

10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 Phone: 513-542-3300 800-542-3302 Fax: 513-542-5540

ENERGY PANEL STRUCTURES 102 EAST INDUSTRIAL PARK GRAETTINGER, IA 51342 PHONE: 712/859-3219 FAX: 712/859-3275 WWW.EPSBUILDINGS.COM

SCALE: NOTED DATE: 5/24/11

DRWN BY: DMM REVIEWED BY: RGW REV. 8/8/2011 DWG NO. 2011/HOUSE/74979



NOTE: FINE THREAD SIP SCREWS MUST BE INSTALLED INTO PRE-DRILLED HOLES IF THE STEEL THICKNESS IS GREATER THAN 1/4". PRE-DRILL HOLE WITH 15/64" DRILL BIT.

NOTE: WHEN APPLYING "PEEL & SEAL" FOLLOW THE FOLLOWING INSTRUCTIONS TO PREVENT AIR INFILTRATION 1. BE SURE TEMERATURE OF MATERIALS AND AMBIENT TEMPERATURE ARE BOTH ABOVE 50° F.

- 2. THOROUGHLY CLEAN SURFACES.
- 3. APPLY SPRAY ADHESIVE PRIMER (BY OTHERS) TO A CLEAN SURFACE.
- 4. APPLY "PEEL & SEEL" OR ICE & WATER, BE SURE TO APPLY PRESSURE THROUGH OUT MATERIAL TO ENSURE 100% CONTACT



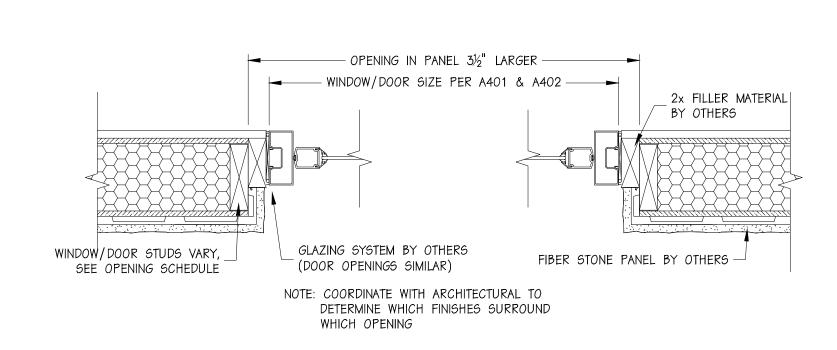
www.ssastructural.com

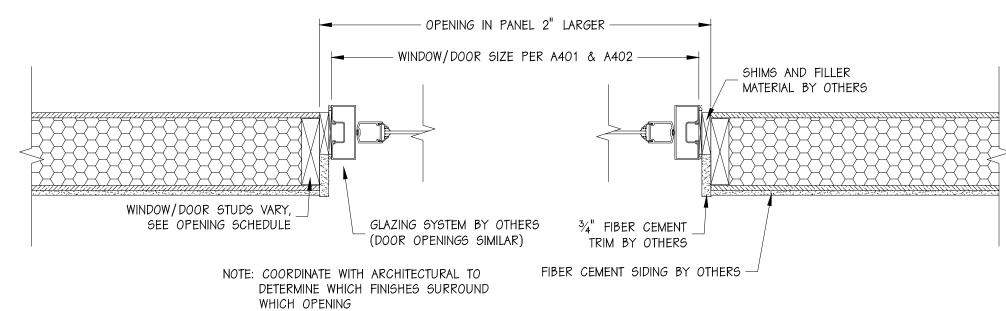
102 EAST INDUSTRIAL PARK 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 GRAETTINGER, IA 51342 Phone: 513-542-3300 800-542-3302 Fax: 513-542-5540 PHONE: 712/859-3219 FAX: 712/859-3275 WWW.EPSBUILDINGS.COM

ESTES CONSTRUCTION SILVIS MIDDLE SCHOOL

SOLID CORE PANEL PACKAGE

SCALE: NOTED DATE: 5/24/11 DRWN BY: DMM REVIEWED BY: RGW REV. 8/8/2011 DWG NO. 2011/HOUSE/74979

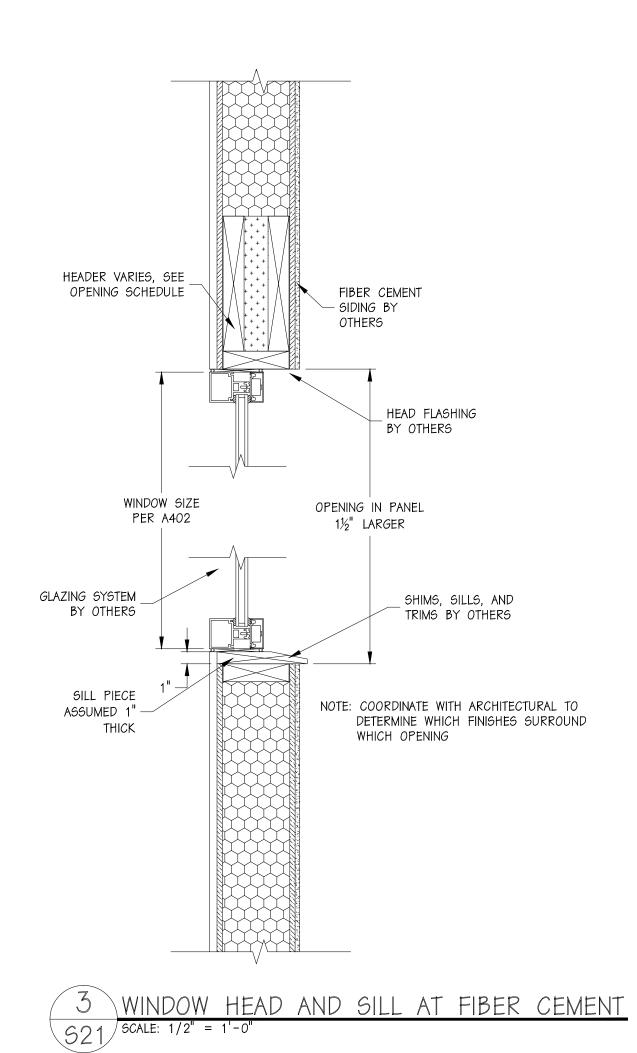


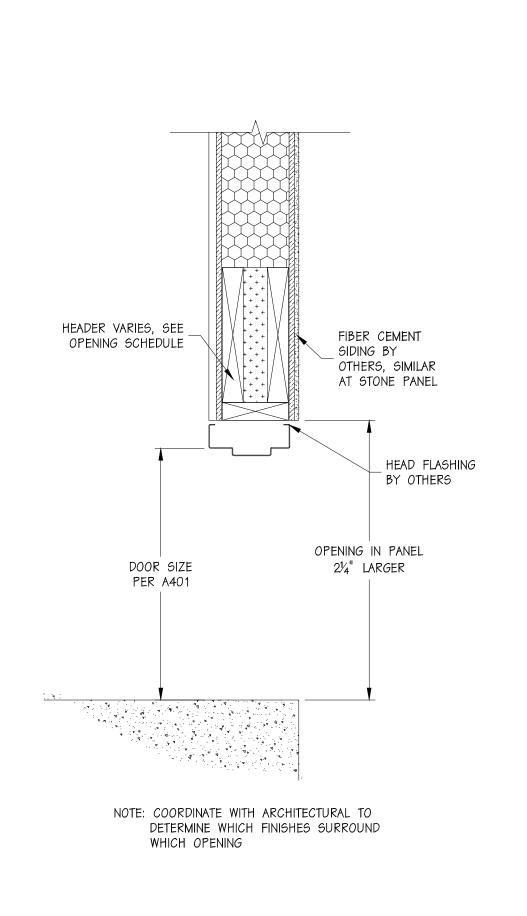


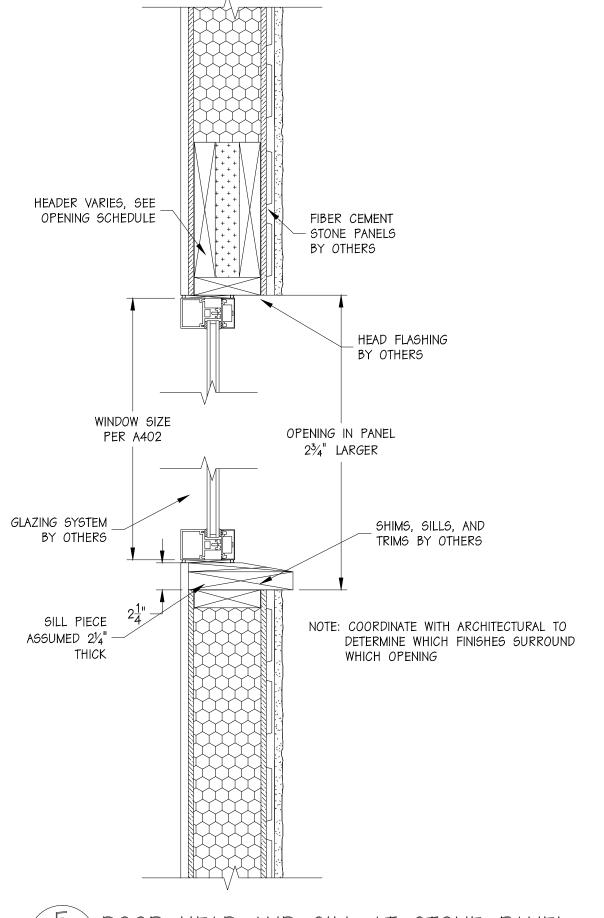
1 WINDOW SIDE JAMB AT STONE PANEL

S21 SCALE: 1/2" = 1'-0"

2 WINDOW SIDE JAMB AT FIBER CEMENT 521 SCALE: 1/2" = 1'-0"







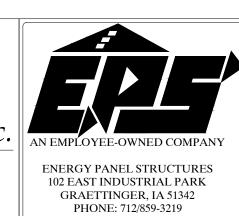
4 DOOR HEAD AND SILL AT FIBER CEMENT 521 SCALE: 1/2" = 1'-0" 5 DOOR HEAD AND SILL AT STONE PANEL S21 SCALE: 1/2" = 1'-0"



onsulting Structural Engineers

10411 Medallion Drive, Suite 121 Cincinnati, OH 45241
Phone: 513-542-3300 800-542-3302 Fax: 513-542-5540
www.ssastructural.com

ENERGY PANEL STRUCTURES
102 EAST INDUSTRIAL PARK
GRAETTINGER, IA 51342
PHONE: 712/859-3219
FAX: 712/859-3275
www.epsbuildings.com



ESTES CONSTRUCTION

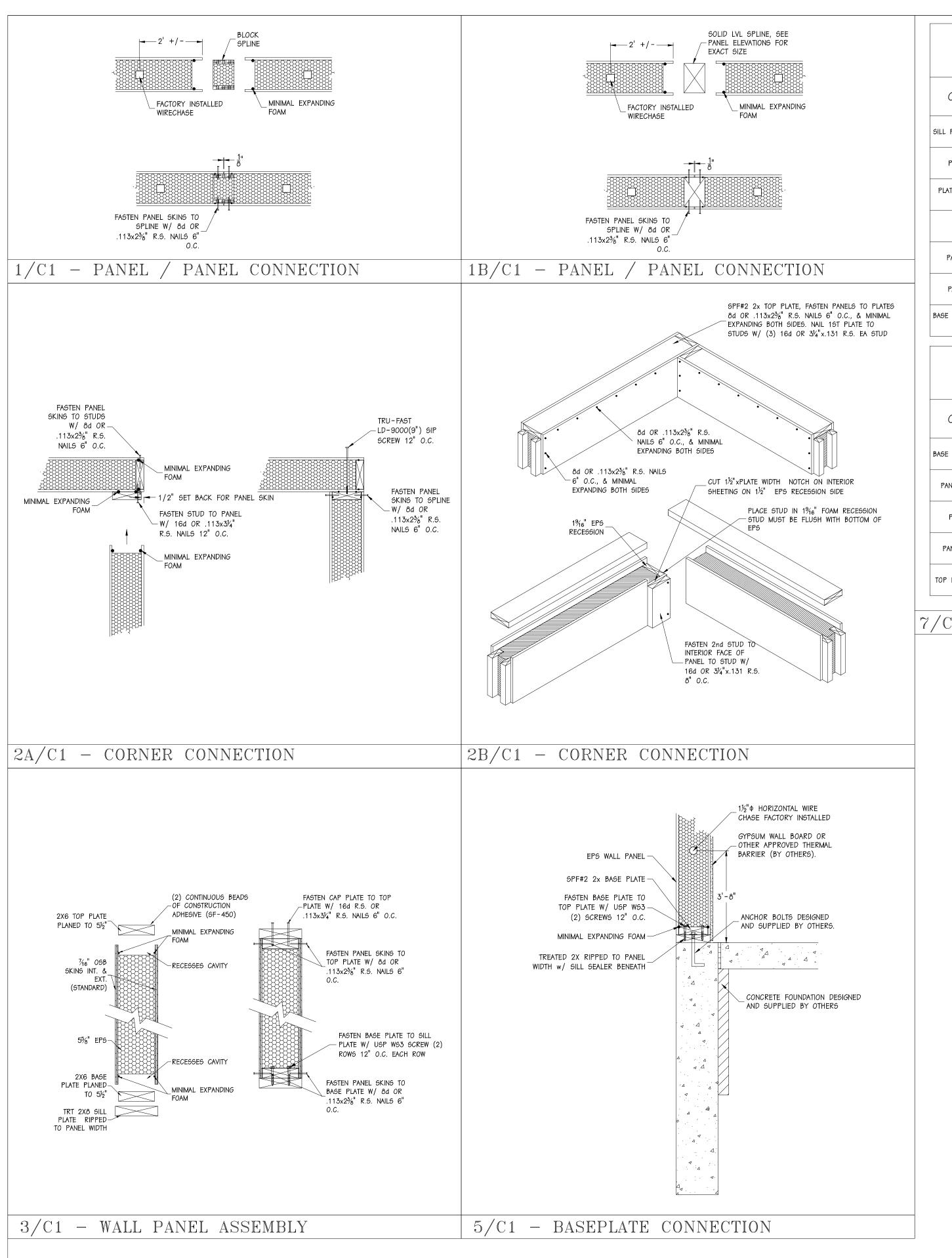
SILVIS MIDDLE SCHOOL

SOLID CORE PANEL PACKAGE

RES
RK
2

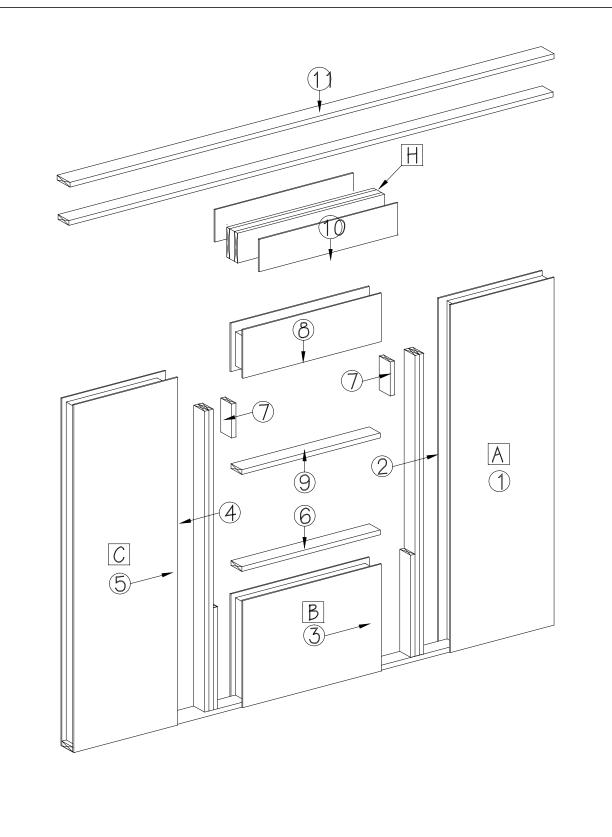
SCALE: NOTED DATE: 5/24/11 REV. 7/13/11
DRWN BY: DMM REVIEWED BY: RGW REV. 8/8/2011

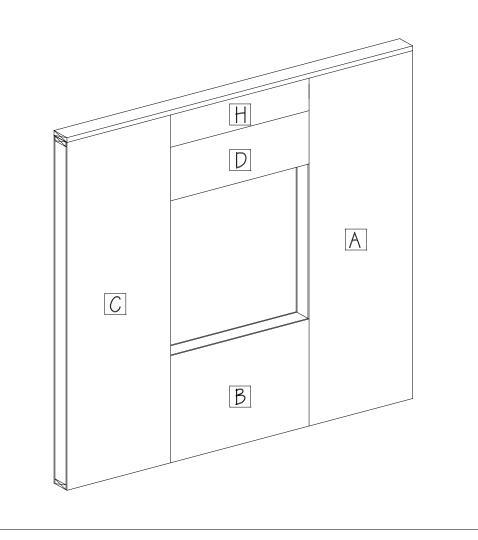
DWG NO. 2011/HOUSE/74979



	WALL PAN FASTENING	EL/FLOOR SCHEDULE					
COMONENTS	TYPE OF FASTENER	FREQUENCY	SUPPLIED BY				
SILL PLATE TO FOUNDATION	MIN ½" ANCHOR BOLT	24" O.C. & 6" FROM ALL BREAKS AND OPENINGS	BY OTHERS				
PLATES TO STUDS	16d CC SINKER OR 3¼"x.131 R.S.	2 PER STUD	EP5				
PLATES TO DOUBLE 2x4 SPLINE	16d CC SINKER OR 3¼"x.131 R.S.	2 PER 2X4	EP5				
CAP PLATE TO TOP PLATE	16d CC SINKER OR 3¼"x.131 R.S.	2 ROW5 12" O.C.	EP5				
PANELS TO PLATES	8d CC SINKERS OR .113x2¾" R.S. NAILS 6" O.C.	6" O.C. INT. & EXT.	EP5				
PANELS TO STUDS	8d CC SINKERS OR .113x2¾" R.S. NAILS 6" O.C.	6" O.C INT. & EXT.	EP5				
BASE PLATE TO SILL PLATE (PANELS PAST)	USP WS3 SCREW	(2) SCREWS PER FT	EP9				
WALL PANEL/FLOOR							

	WALL PAN ADHESIVE	,	
COMONENTS	TYPE OF ADHESIVE	FREQUENCY	SUPPLIED BY
BASE PLATE TO SILL PLATE	CONSTRUCTION ADHESIVE PL-450	(2) CONTINUOUS BEADS	EP9
PANEL TO BASE PLATE	TOUCH-N-SEAL ALL SEASON GUN FOAM	(2) CONTINUOUS BEADS	EP5
PANEL TO SPINES	TOUCH-N-SEAL ALL SEASON GUN FOAM	(2) CONTINUOUS BEADS	EP5
PANEL TO TOP PLATE	TOUCH-N-SEAL ALL SEASON GUN FOAM	(2) CONTINUOUS BEADS	EP9
TOP PLATE TO CAP PLATE	CONSTRUCTION ADHESIVE PL-450	(2) CONTINUOUS BEADS	EP9





1) ERECT PANEL "A"

2) PRE-ASSEMBLE FULL, BEARING, AND FILLER STUDS, INSTALL INTO PANEL "A".

3) SLIDE PANEL "B" INTO PLACE. 4) PRE-ASSEMBLE FULL, BEARING, AND FILLER STUDS,

INSTALL INTO PANEL "C". 5) SLIDE PANEL "C" INTO PLACE, CHECKING HORIZONTAL

R.O. DIMENSION. 6) INSTALL LOWER OPENING FRAMING.

7) INSTALL FILLER PANEL BLOCKING

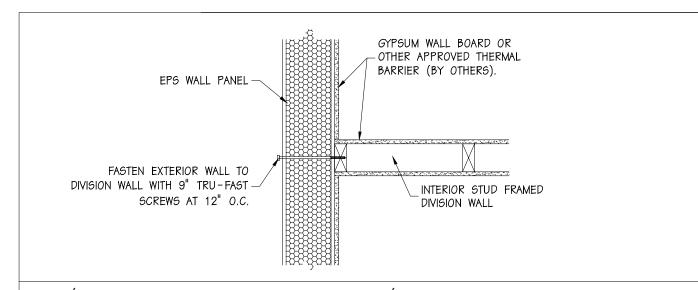
8) SLIDE UPPER PANEL INTO PLACE, VERIFY VERTICAL

9) INSTALL UPPER OPENING FRAMING.

10) DROP HEADER INTO OPENING. SHEATH WITH LOOSE

11) CONTINUE WITH WALL, INSTALL TOP PLATES

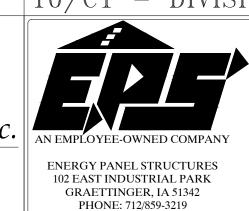
TYPICAL $9'-1\frac{1}{8}"+$ OPENING FRAMING 7/C1 - FASTENING SCEDULE



10/C1 - DIVISION WALL / PANEL ATTACHMENT



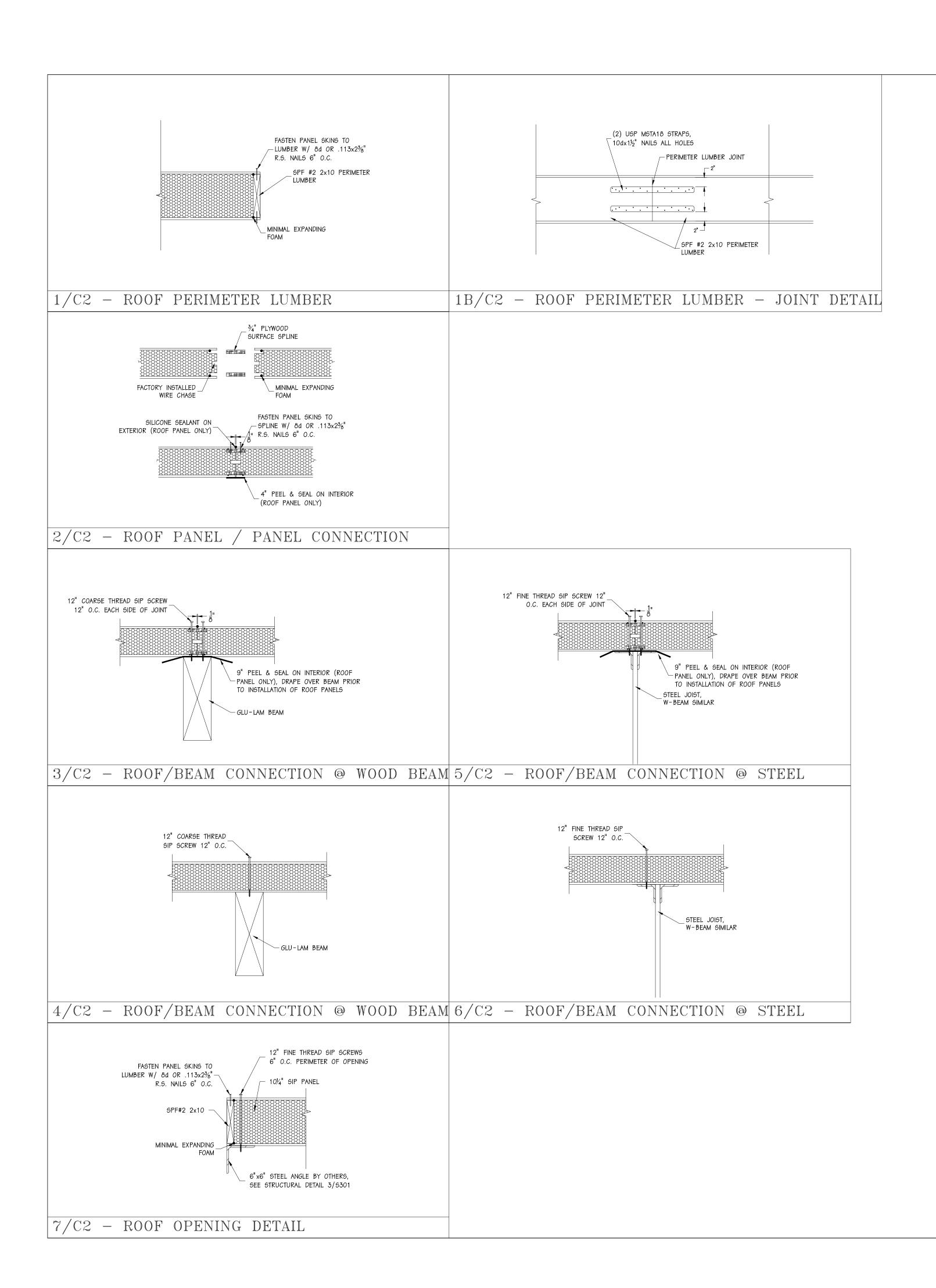
10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 Phone: 513-542-3300 800-542-3302 Fax: 513-542-5540 www.ssastructural.com



ESTES CONSTRUCTION SILVIS MIDDLE SCHOOL

SOLID CORE PANEL PACKAGE SCALE: NOTED DATE: 5/24/11 DRWN BY: DMM REVIEWED BY: RGW FAX: 712/859-3275 DWG NO. 2011/HOUSE/74979 WWW.EPSBUILDINGS.COM

REV. 7/13/11 REV. 8/8/2011



NOTE: WHEN APPLYING ICE & WATER OR "PEEL & SEAL" FOLLOW THE FOLLOWING INSTRUCTIONS TO PREVENT AIR INFILTRATION

- 1. BE SURE TEMERATURE OF MATERIALS AND AMBIENT TEMPERATURE ARE BOTH ABOVE 50° F.
- 2. THOROUGHLY CLEAN SURFACES.
- 3. APPLY SPRAY ADHESIVE PRIMER (BY OTHERS) TO A CLEAN SURFACE.
- 4. APPLY "PEEL & SEEL" OR ICE & WATER, BE SURE TO APPLY PRESSURE THROUGH OUT MATERIAL TO ENSURE 100% CONTACT.

NOTE: FINE THREAD SIP SCREWS MUST BE INSTALLED INTO PRE-DRILLED HOLES IF THE STEEL THICKNESS IS GREATER THAN 1/4".

PRE-DRILL HOLE WITH 15/64" DRILL BIT.

	ROOF	PANEL	
	FASTENING	SCHEDULE	
COMONENTS	TYPE OF FASTENER	FREQUENCY	SUPPLIED BY
PANEL TO PLATES	12" SIP SCREW LENGTH MAY VARY	6" O.C.	EP6
PANEL TO BEAM	12" SIP SCREW LENGTH MAY VARY	6" O.C.	EP9
PANEL TO LUMBER SPLINE	8d NAILS OR .113x23%" R.S.	6" O.C. INT & EXT	EP9
PANEL TO SURFACE SPLINE	8d NAILS OR .113x23%" R.S.	6" O.C. EXTERIOR	EP9
DOUBLE LUMBER SPLINE	16d NAILS OR 31/4" x.131 R.S.	(3) ROWS 12" O.C.	EPS

ROOF PANEL ADHESIVE SCHEDULE				
COMONENTS	TYPE OF ADHESIVE	FREQUENCY	SUPPLIED BY	
PERIMETER BOARD	TOUCH-N-SEAL ALL SEASON GUN FOAM	(2) CONTINUOUS BEADS	EP6	
SURFACE SPLINES	TOUCH-N-SEAL ALL SEASON GUN FOAM	(1) CONTINUOUS BEAD PER CAVITY	EP9	
ROOF PANEL TO WALL TOP PLATE	TOUCH-N-SEAL ALL SEASON GUN FOAM	(2) CONTINUOUS BEADS	EP9	

7/C1 - FASTENING SCEDULE



10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 Phone: 513-542-3300 800-542-3302 Fax: 513-542-5540 www.ssastructural.com



ESTES CONSTRUCTION

SILVIS MIDDLE SCHOOL

SOLID CORE PANEL PACKAGE