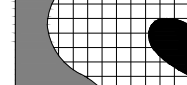


<p align="center">DESIGN LOADS</p> <p align="center">(ARCHITECT/ENGINEER OF RECORD TO REVIEW COMPONENT LOADS SHOWN BELOW)</p>			
<p align="center">CODE BODY: IBC 2009</p> <p align="center">ROOF LIVE LOAD: 20</p> <p align="center">ROOF DEAD LOAD: 22</p> <p align="center">FLOOR LIVE LOAD: N/A</p> <p align="center">FLOOR DEAD LOAD: N/A</p>			
<p align="center">COMPONENTS & CLADDING WIND LOAD</p>			
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'	-28.4	-27.3	-26.8
NEGATIVE ZONE 3'	-44.3	-33.2	-28.4
WALLS	SURFACE PRESSURE (psf)		
AREA	10 sf	100 sf	500 sf
NEGATIVE ZONE 4	-18.7	-16.1	-14.4
NEGATIVE ZONE 5	-23.0	-17.9	-14.4
POSITIVE ALL ZONES	17.2	14.7	12.9
<p>ROOF NET UPLIFT: 20 psf (31 psf AT OVERHANGS)</p>			
<p>SEISMIC</p> <p>R=2.0</p> <p>C_s = 0.068</p> <p>SEE CALCULATIONS FOR ACTUAL DIAPHRAGM LOADS</p>			

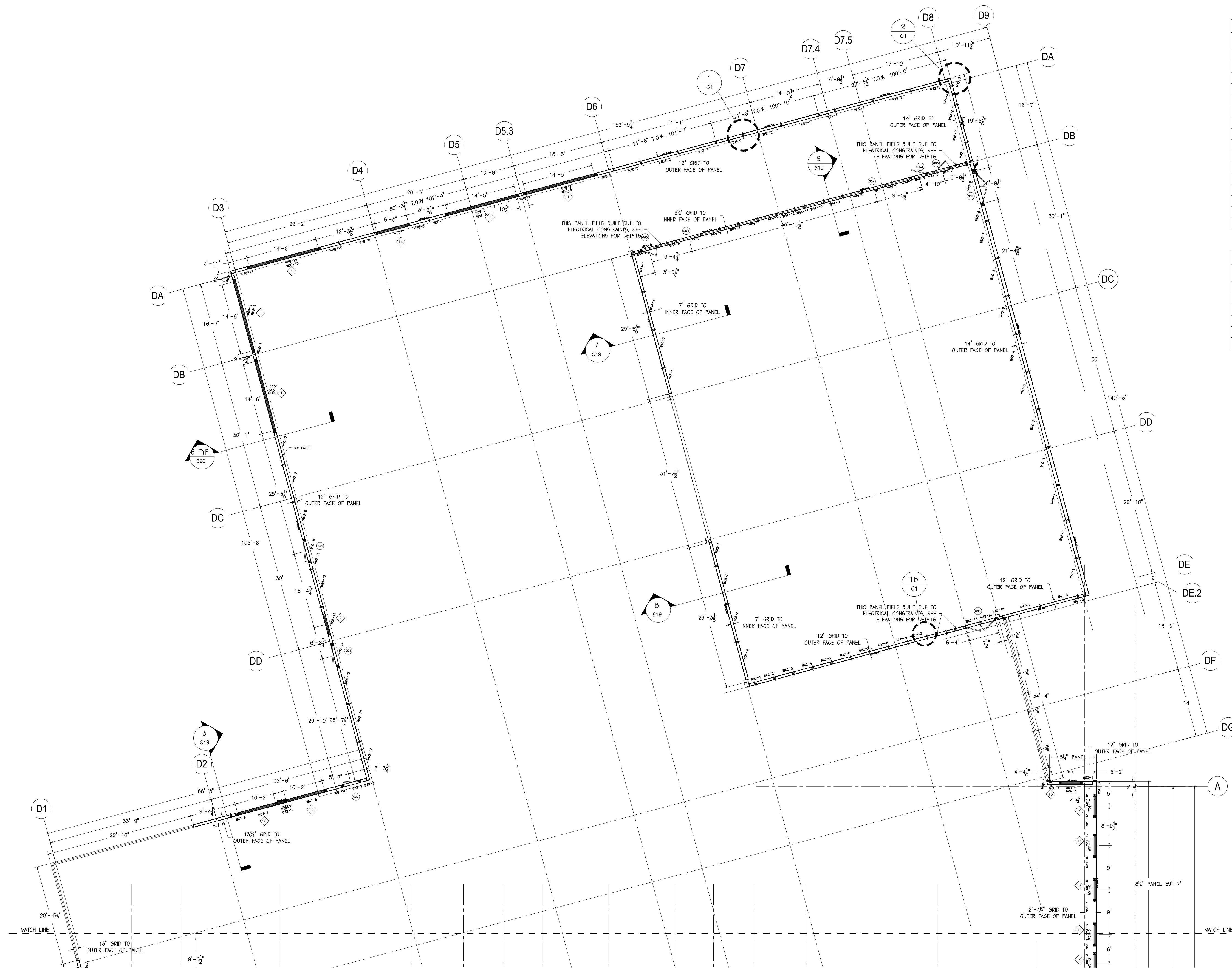


Steven Schaefer Associates, Inc.
Consulting Structural Engineers

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

SHEET	DRAWING INDEX
51	COVER PAGE
52	PLANVIEW - NORTH - LOWER PANELS
53	PLANVIEW - SOUTH - LOWER PANELS
54	PLANVIEW - NORTH - UPPER PANELS
55	PLANVIEW - SOUTH - UPPER PANELS
56	ROOF BEAM LAYOUT - NORTH
57	ROOF BEAM LAYOUT - SOUTH - UPPER
58	ROOF BEAM LAYOUT - SOUTH - LOWER
59	ROOF BEAM LAYOUT - WEDGE
510	WALL PANEL ELEVATIONS
511	WALL PANEL ELEVATIONS
512	WALL PANEL ELEVATIONS
513	WALL PANEL ELEVATIONS
514	WALL PANEL ELEVATIONS
515	WALL PANEL ELEVATIONS
516	ROOF PANEL LAYOUT
517	ROOF PANEL LAYOUT
518	ROOF PANEL LAYOUT
519	DETAIL SECTIONS
520	DETAIL SECTIONS
521	OPENING DETAILS
C1	CONSTRUCTION DETAILS - WALLS
C2	CONSTRUCTION DETAILS - ROOF

JOB #: 2011/HOUSING/74979

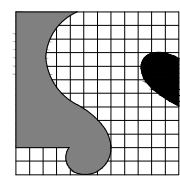


WINDOW SCHEDULE							
Number	Quantity	Rough Width	Rough Height	Head Height	Header	Bearing Studs (Each Side)	Full Studs (Each Side)
1	5	14'-6"	9'-4 3/4"	10'-0"	(2) 1-3/4"x11-1/4" LVL LAMINATED HEADER, SPF 2x6 BELOW	1	3
2	1	4'-2"	2'-1 1/2"	5'-0"	NONE (SIP HEADER ABOVE)	--	--
3	6	14'-7 1/2"	9'-6 3/4"	10'-10"	(2) 1-3/4"x11-1/4" LVL LAMINATED HEADER, SPF 2x6 BELOW	1	3
4	2	7'-5 1/2"	9'-6 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 2x6 FLAT	0	(2) 2x6
11	2	4'-2"	2'-1 1/2"	5'-6"	(2) SPF 2x6 FLAT	0	(2) 2x6
12	1	4'-2"	2'-1 1/2"	7'-6"	(2) SPF 2x6 FLAT	0	(2) 2x6
13	1	4'-2"	2'-1 1/2"	7'-0"	(2) SPF 2x6 FLAT	0	(2) 2x6
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) 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 2x6 BELOW	1	2

WALL PANELS ARE 6 1/2" SIPs,
UNLESS NOTED OTHERWISE

1 PLANVIEW - LOWER WALLS - NORTH
SCALE: 3/32" = 1'-0"



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.sasstructural.com

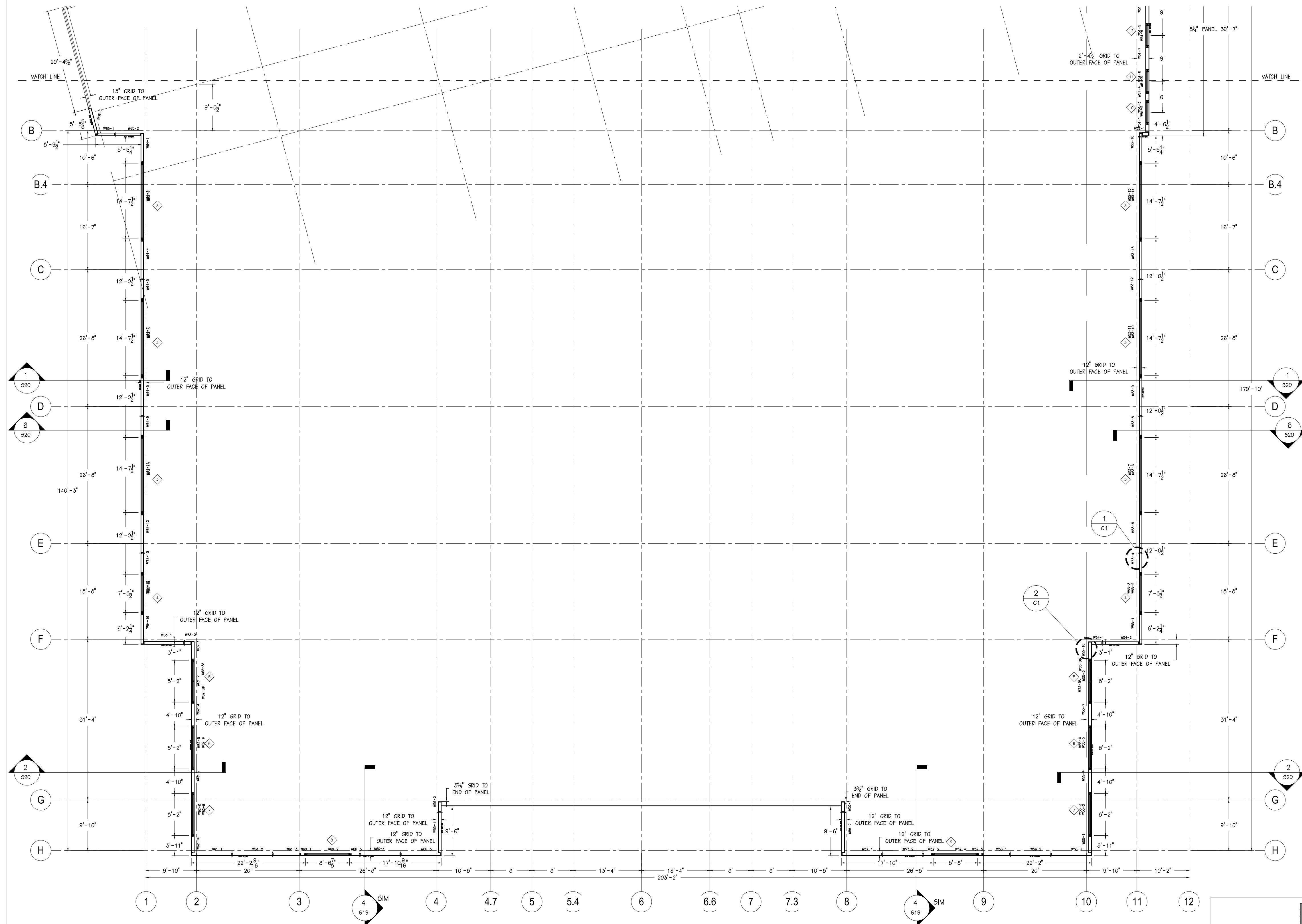


ENERGY PANEL STRUCTURES
102 EAST INDUSTRIAL PARK
GRANTTOWN, IA 51542
PHONE: 712-859-3219
FAX: 712-859-3275
WWW.EPSBUILDINGS.COM

ESTES CONSTRUCTION
SILVIS MIDDLE SCHOOL
SOLID CORE PANEL PACKAGE

SCALE: NOTED DATE: 5/24/11 REV: 7/13/11 SHEET:
DRAWN BY: DMM REVIEWED BY: RGM REV: 8/8/2011
DWG NO: 2011/HOUSE/74979 REV: 0

S2

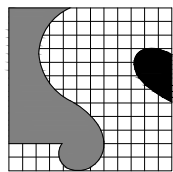


1 PLANVIEW - LOWER WALLS - SOUTH
53 SCALE: 3/32" = 1'-0"

WINDOW SCHEDULE									
Number	Quantity	Rough Width	Rough Height	Head Height	Header	Bearing Studs (Each Side)	Full Studs (Each Side)		
1	5	14'-0"	9'-4 3/4"	10'-0"	(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	6'-2"	2'-1 1/2"	5'-0"	(2) SPF 2x6 FLAT	0	2		
6	2	6'-2"	2'-1 1/2"	5'-0"	(2) SPF 2x6 FLAT	0	2		
7	2	6'-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"	5'-0"	(2) SPF 2x6 FLAT	0	(2) 2x6		
11	2	4'-2"	2'-1 1/2"	5'-6"	(2) SPF 2x6 FLAT	0	(2) 2x6		
12	1	4'-2"	2'-1 1/2"	7'-6"	(2) SPF 2x6 FLAT	0	(2) 2x6		
13	1	4'-2"	2'-1 1/2"	7'-0"	(2) SPF 2x6 FLAT	0	(2) 2x6		
14	1	6'-6"	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) 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	8'-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	8'-9 1/2"	7'-2 1/4"	7'-2 1/4"	(2) 1-3/4"x11-1/4" LVL LAMINATED HEADER, SPF 2x6 BELOW	1	2

WALL PANELS ARE 6 1/2" 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

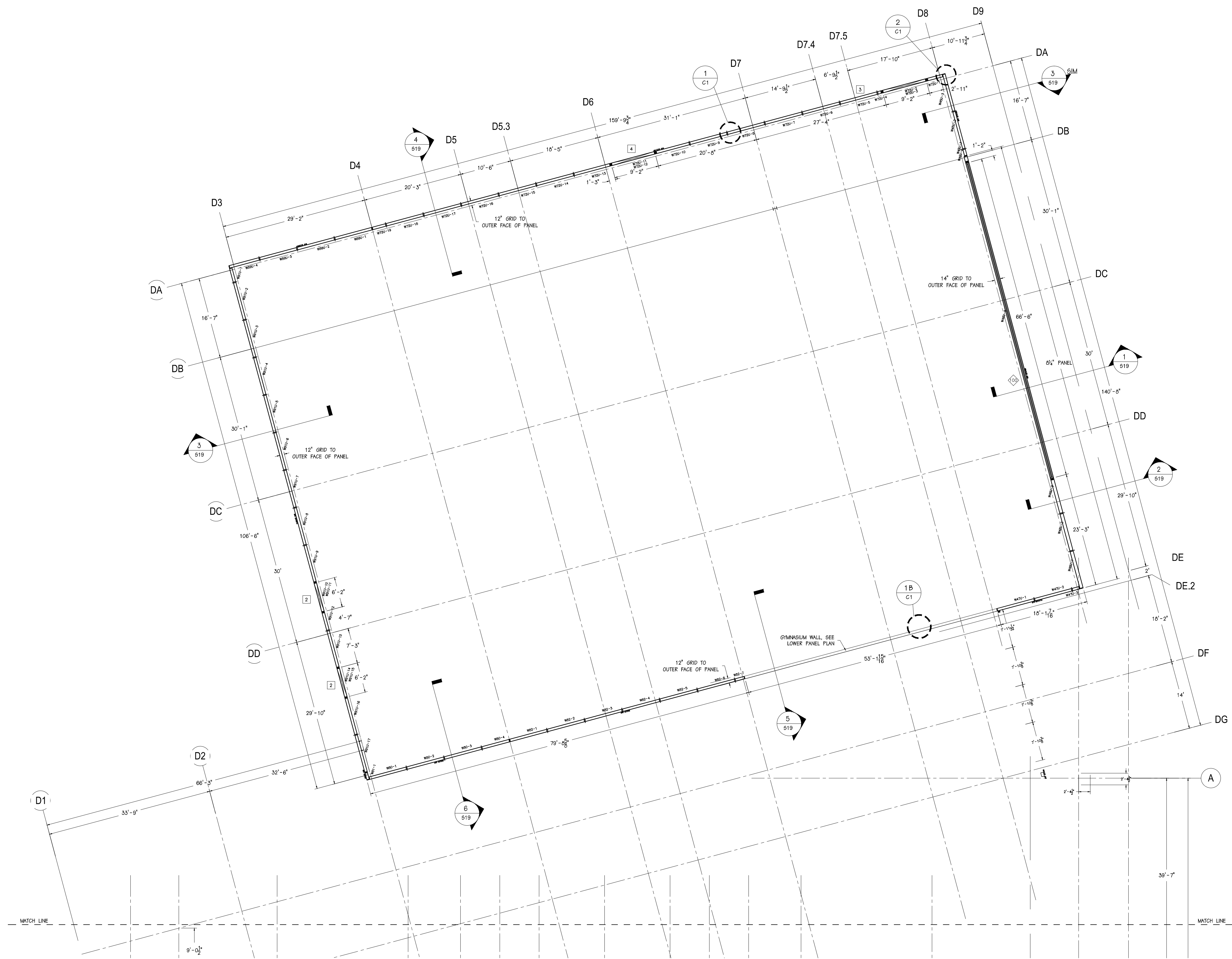


ENERGY PANEL STRUCTURES
102 EAST INDUSTRIAL PARK
GRANTTOWN, IA 51542
PHONE: 712-859-3219
FAX: 712-859-3275
WWW.EPSBUILDINGS.COM

ESTES CONSTRUCTION
SILVIS MIDDLE SCHOOL
SOLID CORE PANEL PACKAGE

SCALE: NOTED DATE: 5/24/11 REV: 7/13/11 SHEET:
DRAWN BY: DMH REVENED BY: RGM REV: 8/8/2011
DWG NO: 2011/HOUSE/74979 REV: 0

S3



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'-1 1/2"	22'-6"	(2) SPF#2 2x6 FLAT	0	1
2	2	6'-2"	3'-1 1/2"	21'-6"	(2) SPF#2 2x6 FLAT	0	1
3	2	9'-2"	3'-1 1/2"	25'-6"	(2) SPF#2 2x6 FLAT	0	3
4	2	9'-2"	3'-1 1/2"	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 6 1/2" SIPs,
UNLESS NOTED OTHERWISE

1
64 PLANVIEW - UPPER WALLS - NORTH
SCALE: 3/32" = 1'-0"



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.sasstructural.com



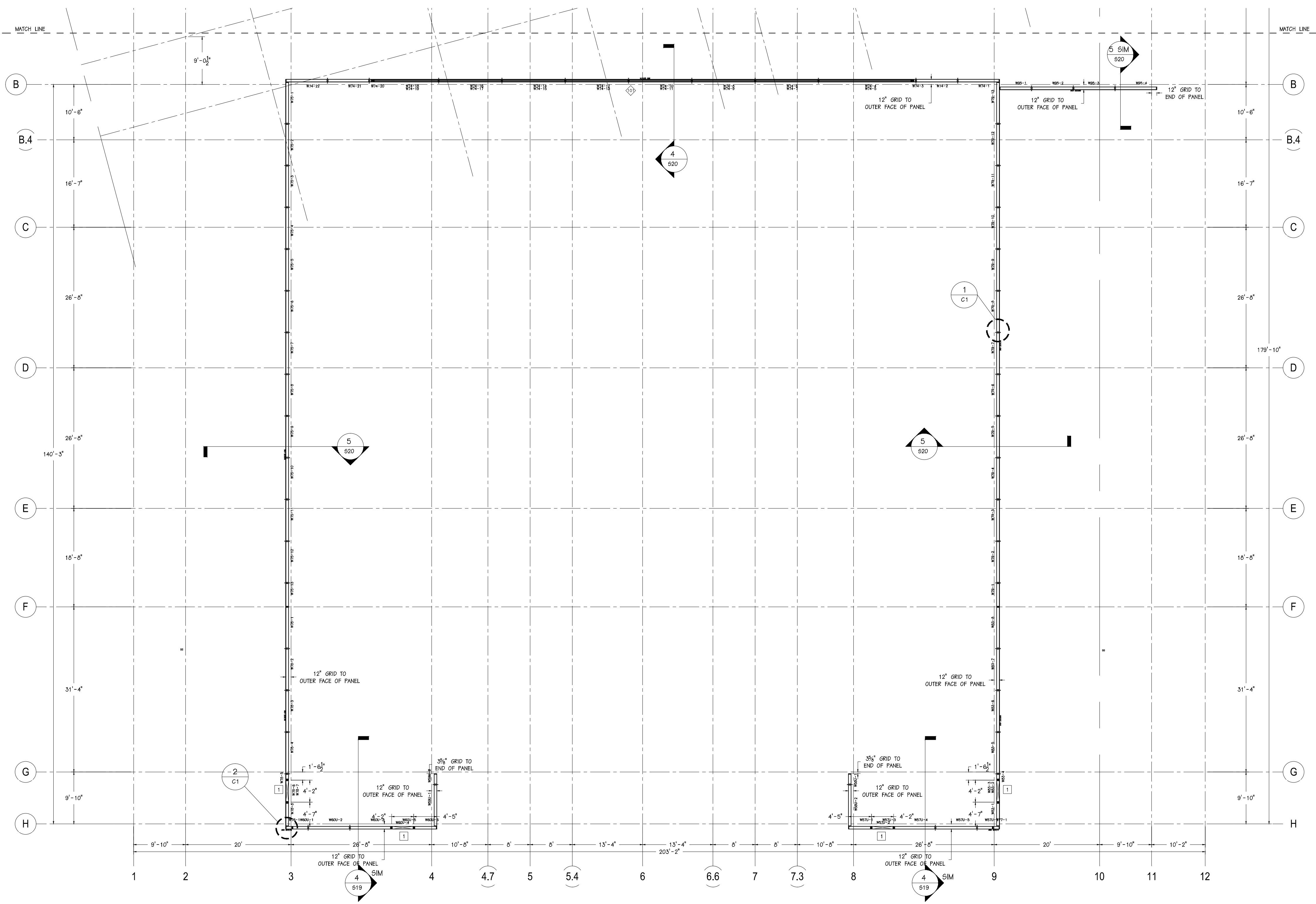
ENERGY PANEL STRUCTURES
102 EAST INDUSTRIAL PARK
GRANTTOWN, IA 51542
PHONE: 712/859-3219
FAX: 712/859-3275
WWW.EPSBUILDINGS.COM

ESTES CONSTRUCTION

SILVIS MIDDLE SCHOOL

SOLID CORE PANEL PACKAGE

SCALE: NOTED	DATE: 5/24/11	REV: 7/13/11	S4
DRAWN BY: DMM	REVIEWED BY: RGM	REV: 8/8/2011	
DWG NO: 2011/HOUSE/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'-1 1/2"	22'-6"	(2) 6PF#2 2x6 FLAT	0	1
2	2	6'-2"	3'-1 1/2"	21'-8"	(2) 6PF#2 2x6 FLAT	0	1
3	2	9'-2"	3'-1 1/2"	25'-6"	(2) 6PF#2 2x6 FLAT	0	3
4	2	9'-2"	3'-1 1/2"	25'-6"	(2) 6PF#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) 6PF 2x6 FLAT	0	2

1 PLANVIEW - UPPER WALLS - SOUTH
65 SCALE: 3/32" = 1'-0"



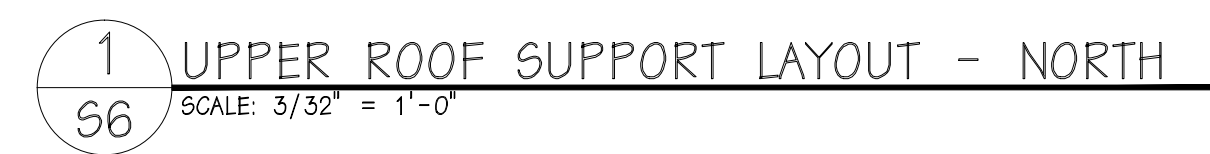
Steven Schaefer Associates, Inc.
Consulting Structural Engineers
10411 Medallion Drive, Suite 121 Cincinnati, OH 45241
Phone: 513-542-3300 800-542-3302 Fax: 513-542-5540
www.ssastructural.com



ENERGY PANEL STRUCTURES
102 EAST INDUSTRIAL PARK
GRANTTOWN, IA 51542
PHONE: 712-859-3219
FAX: 712-859-3275
WWW.EPSBUILDINGS.COM

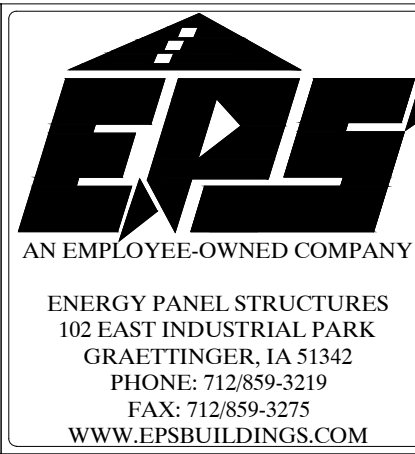
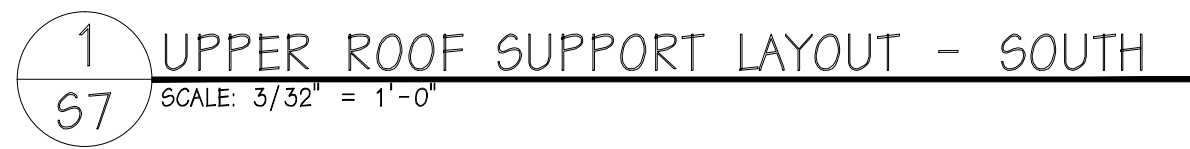
ESTES CONSTRUCTION
SILVIS MIDDLE SCHOOL
SOLID CORE PANEL PACKAGE

SCALE: NOTED	DATE: 5/24/11	REV: 7/13/11	SHEET: S5
DRAWN BY: DMM	REVIEWED BY: RGW	REV: 8/8/2011	
DWG NO: 2011/HOUSE/74979		REV: 0	

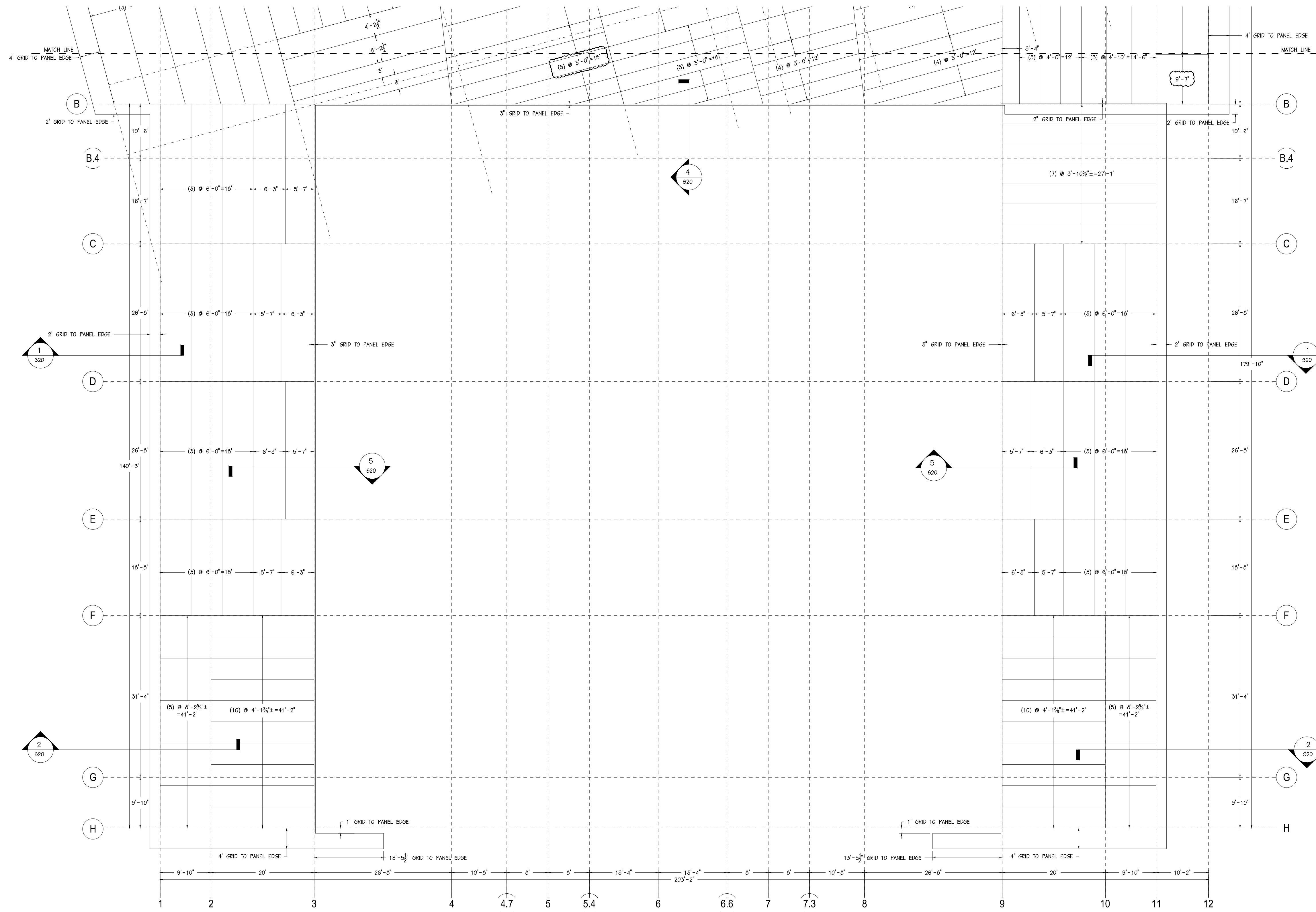


SCALE: NOTED	DATE: 5/24/11	REV. 7/13/11	SHEET
DRAWN BY: DMM	REVIEWED BY: RGW	REV. 8/8/2011	
DWG NO. 2011/HOUSE/74979		REV. 0	

S6



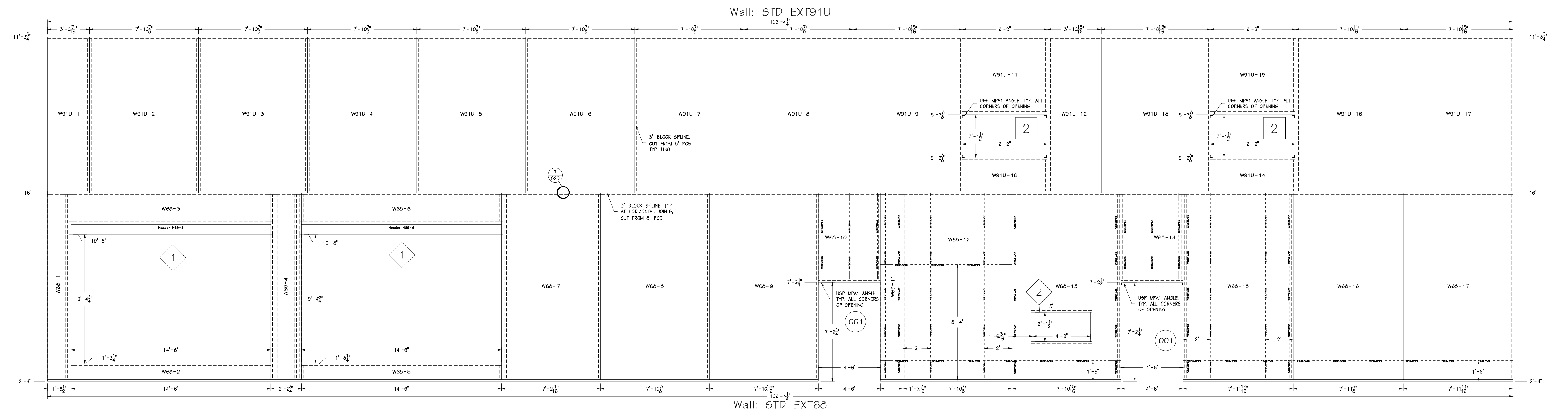
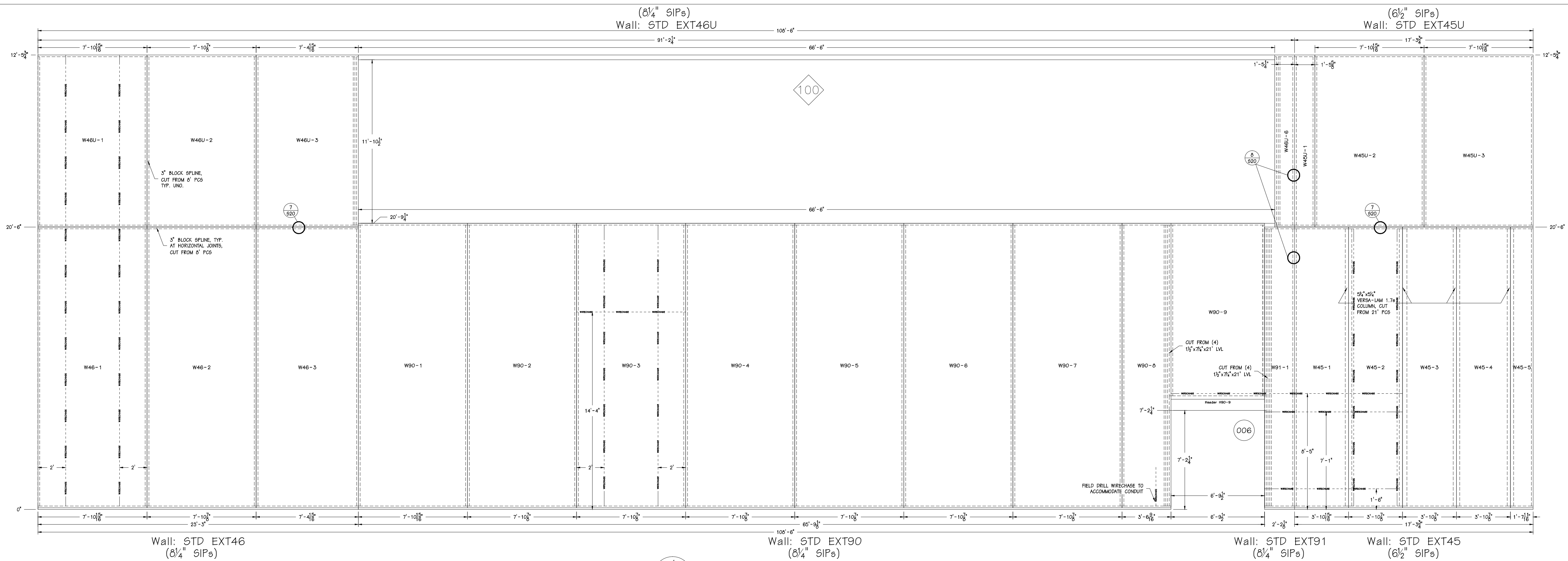
ESTES CONSTRUCTION			
SILVIS MIDDLE SCHOOL			
SOLID CORE PANEL PACKAGE			
SCALE: NOTED	DATE: 5/24/11	REV. 7/13/11	SHEET:
DRAWN BY: DMM	REVIEWED BY: RGW	REV. 6/8/2011	S7
DWG NO: 2011/HOUSE/74879		REV. 0	

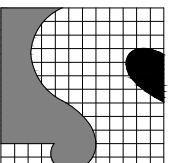


1
68 LOWER ROOF SUPPORT LAYOUT - SOUTH
SCALE: 3/32" = 1'-0"

 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		 ENERGY PANEL STRUCTURES 102 EAST INDUSTRIAL PARK GRANTTOWN, 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 SHEET: S8 DRAWN BY: DMH REVIEWED BY: RGM REV: 8/8/2011 DWG NO. 2011/HOUSE/74979 REV: 0	
---	--	--	--	--	--








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



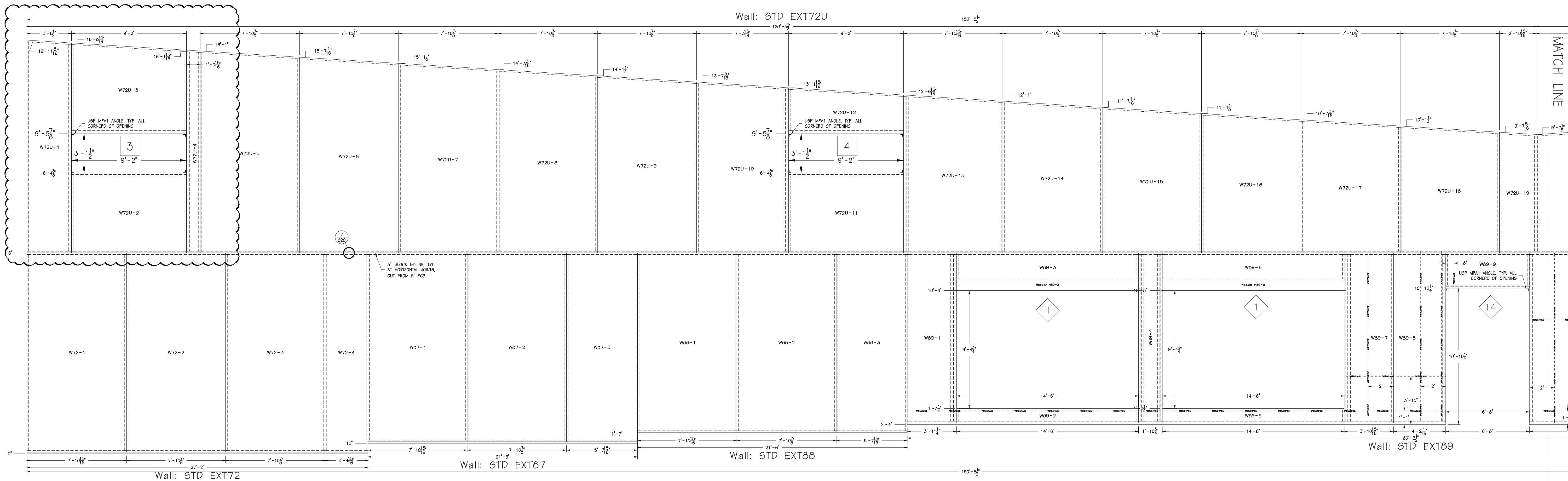
ENERGY PANEL STRUCTURES
102 EAST INDUSTRIAL PARK
GRANTTOWN, IA 51542
PHONE: 712-859-3219
FAX: 712-859-3275
WWW.EPSBUILDINGS.COM

ESTES CONSTRUCTION

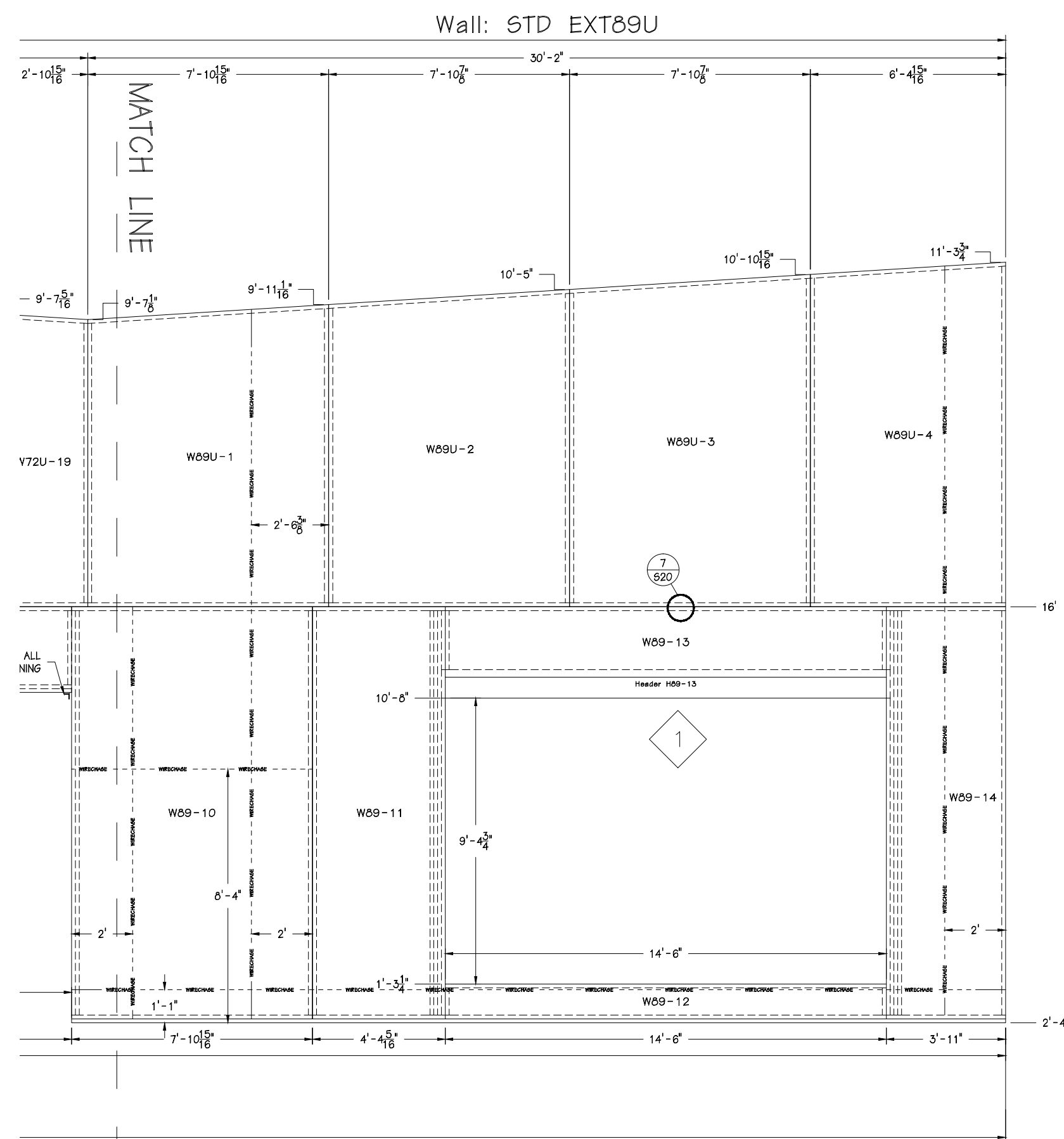
SILVIS MIDDLE SCHOOL

SOLID CORE PANEL PACKAGE

SCALE: NOTED	DATE: 5/24/11	REV: 7/13/11	SHEET:
DRAWN BY: DMM	REVIEWED BY: RGM	REV: 8/8/2011	S10
DWG NO: 2011/HOUSE/74979		REV: 0	



1 NORTH PANEL ELEV. - EAST
SCALE: 1/4" = 1'-0"



2 NORTH PANEL ELEV. - WEST
SCALE: 1/4" = 1'-0"

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

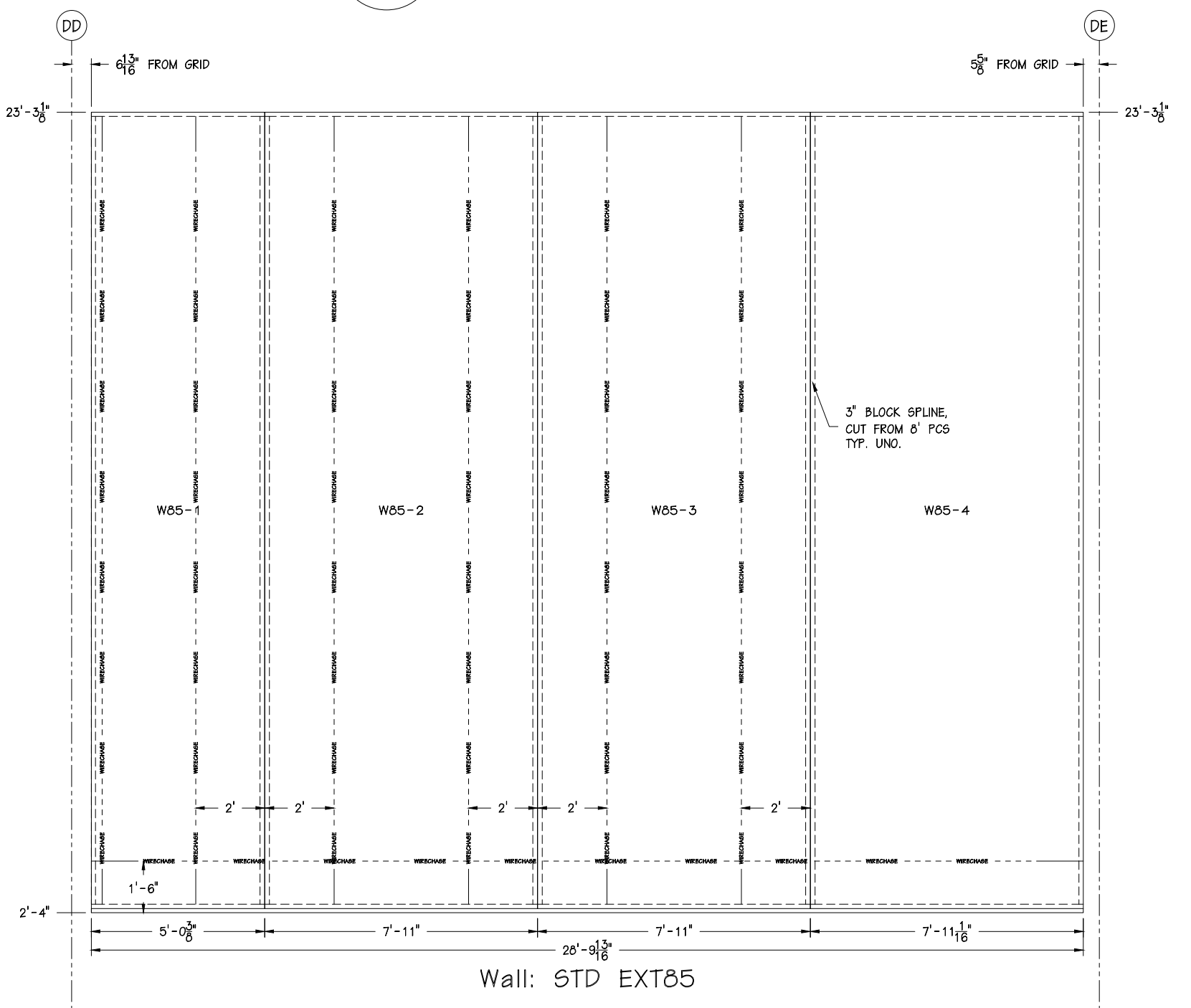
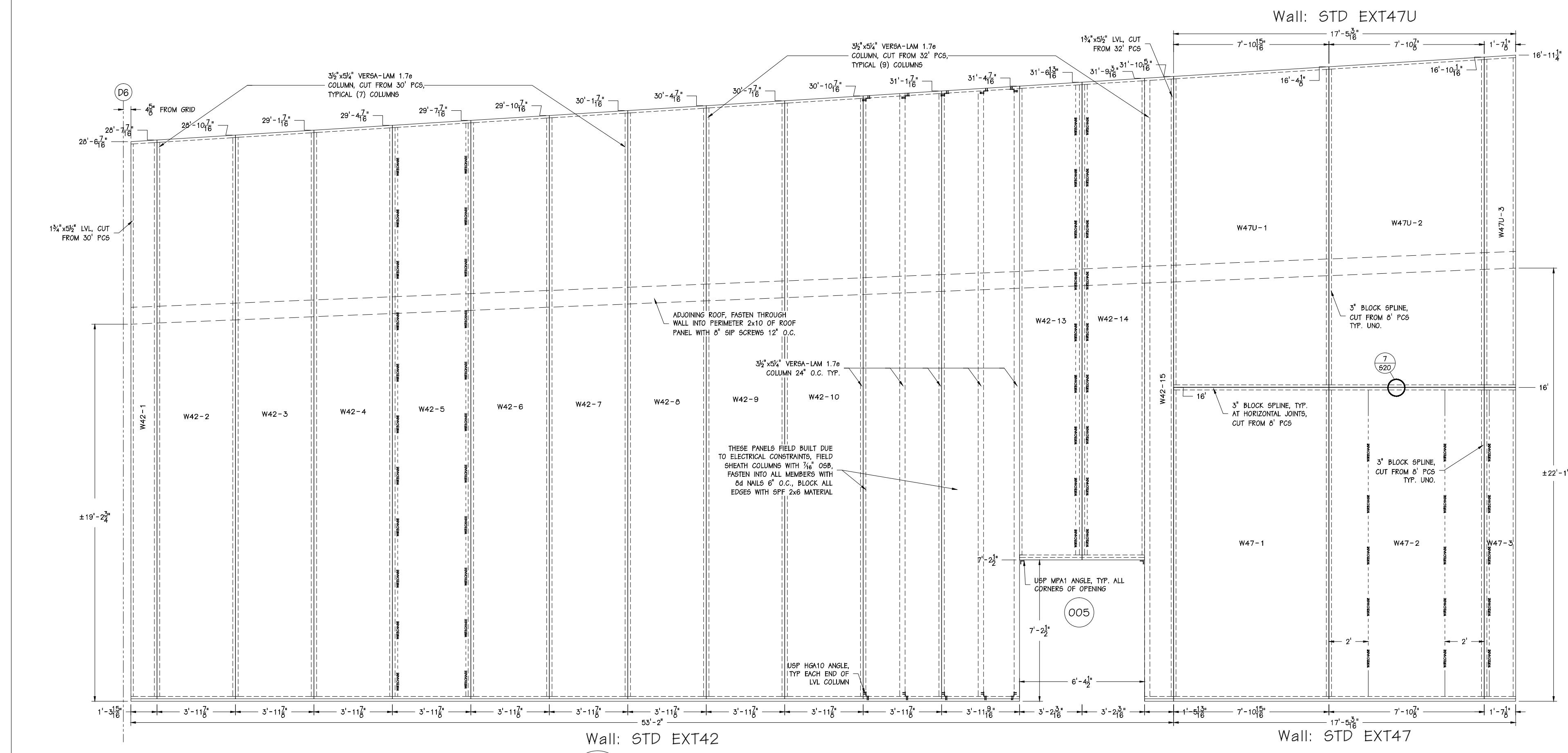
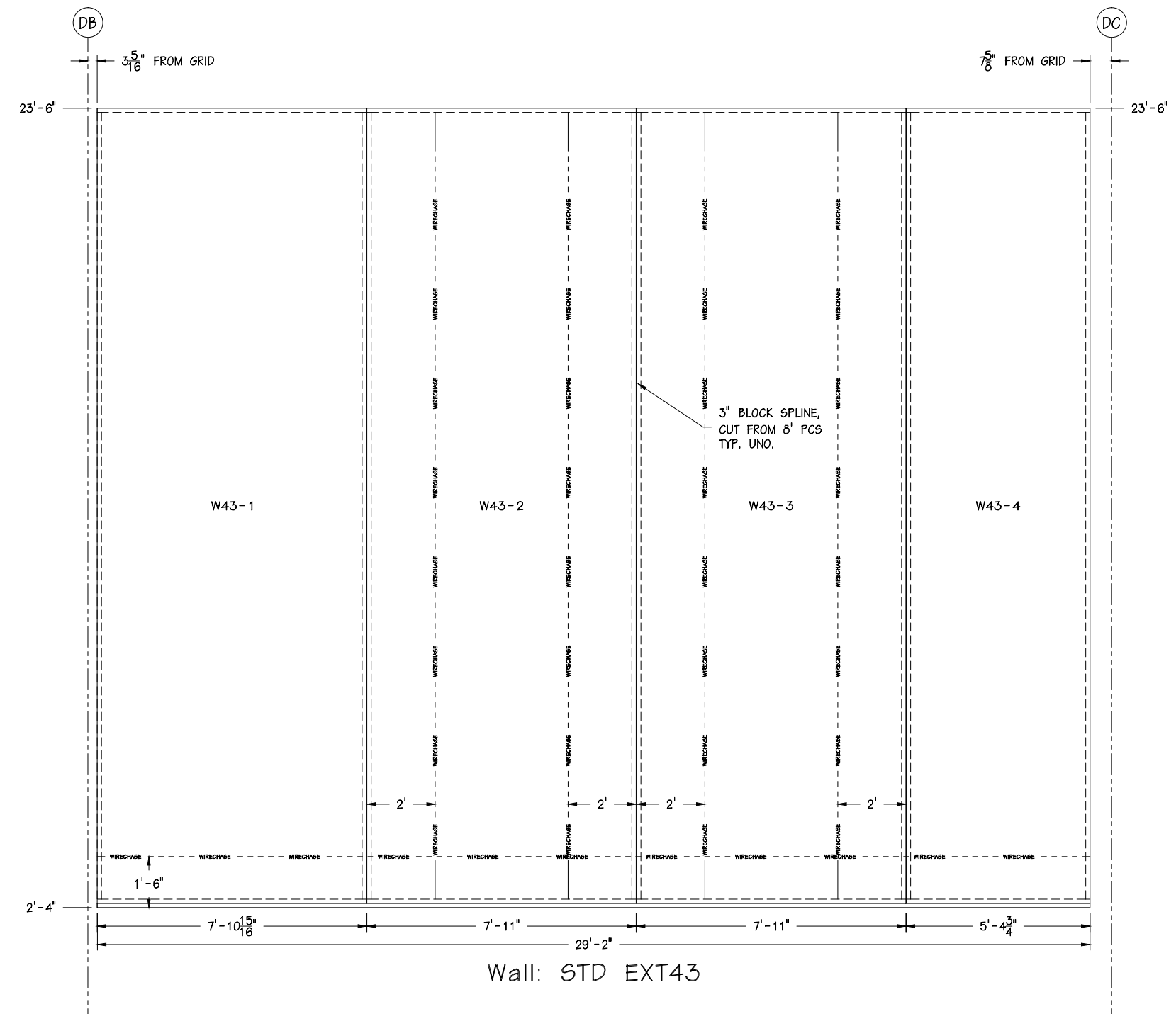
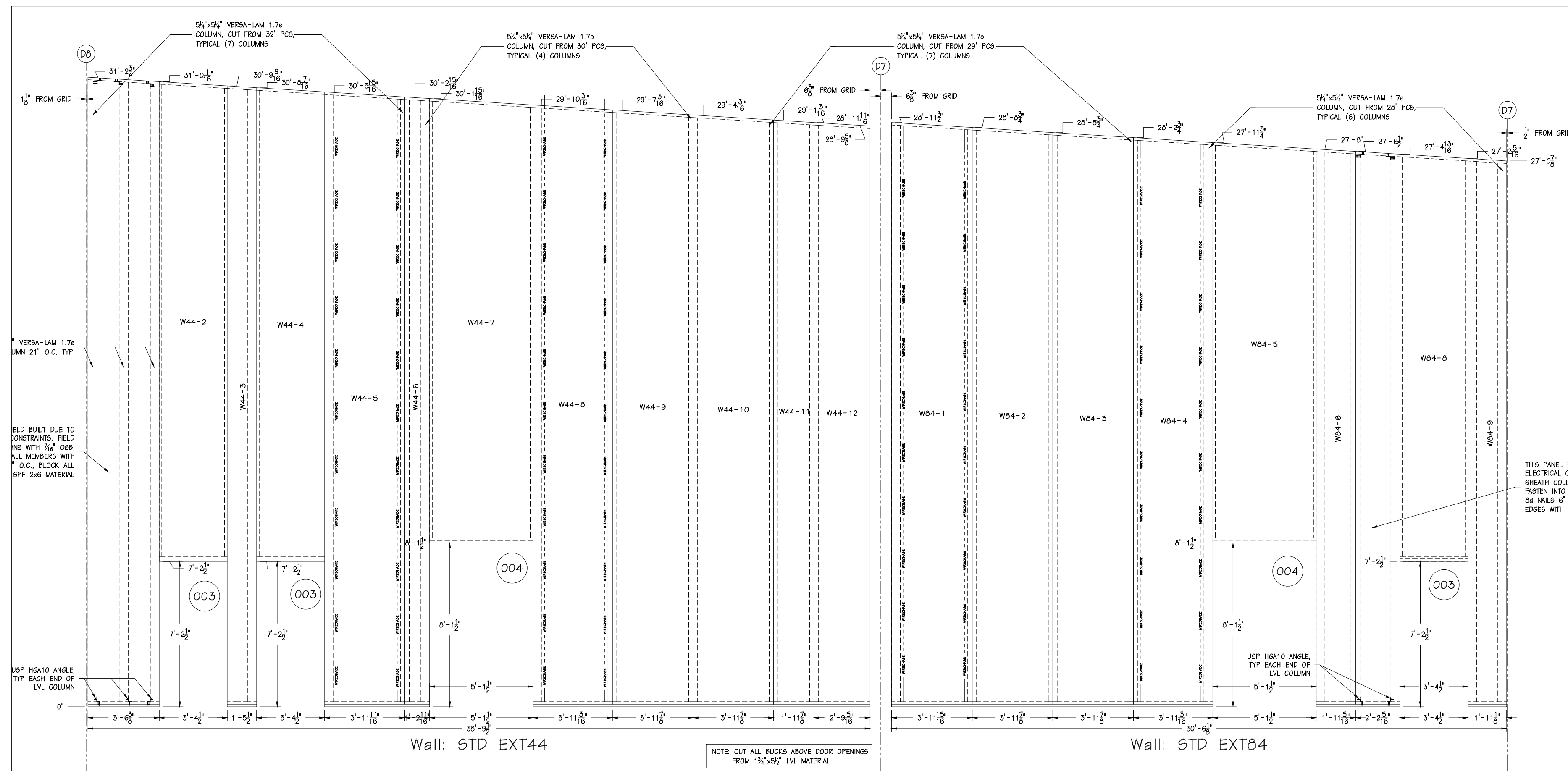
EPS
AN EMPLOYEE-OWNED COMPANY

ENERGY PANEL STRUCTURES
102 EAST INDUSTRIAL PARK
GRAFTINGHER, IA 51542
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	SHEET:
DRAWN BY: DM	REVIEWED BY: RGM	REV: 8/8/2011	S11
DWG NO: 2011/HOUSE/74979		REV: 0	



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.sasstructural.com

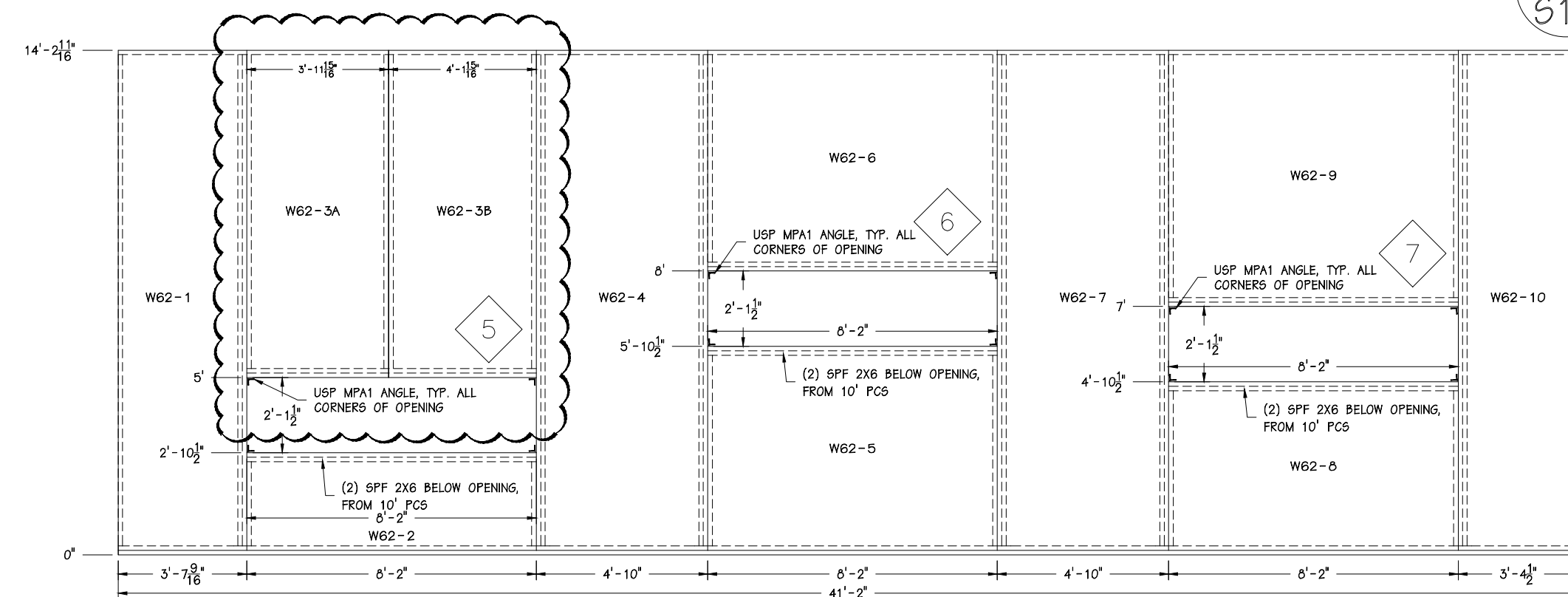
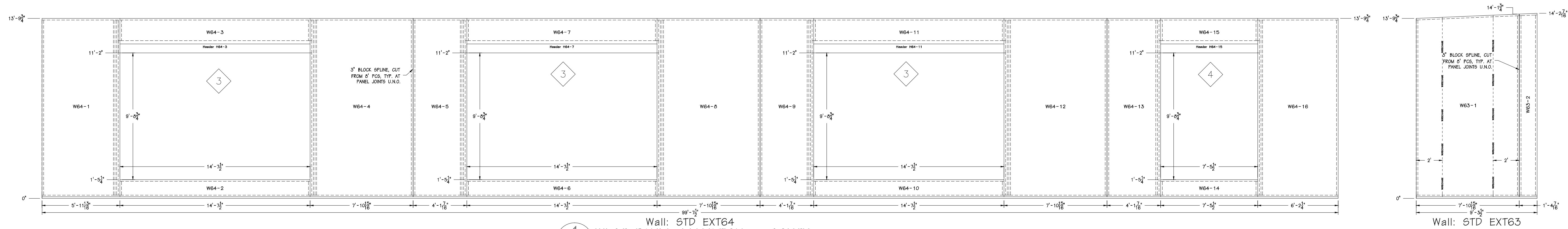
EPS
AN EMPLOYEE-OWNED COMPANY

ENERGY PANEL STRUCTURES
102 EAST INDUSTRIAL PARK
GRAFFIETTINGER, IA 51542
PHONE: 712-859-3219
FAX: 712-859-3275
WWW.EPSBUILDINGS.COM

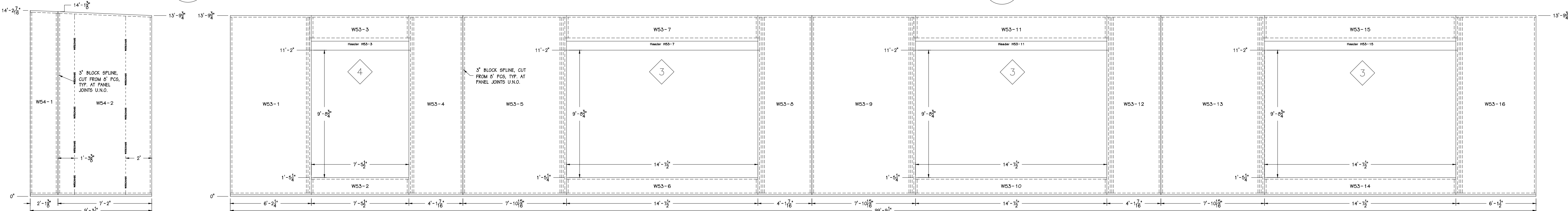
ESTES CONSTRUCTION

SILVIS MIDDLE SCHOOL
SOLID CORE PANEL PACKAGE

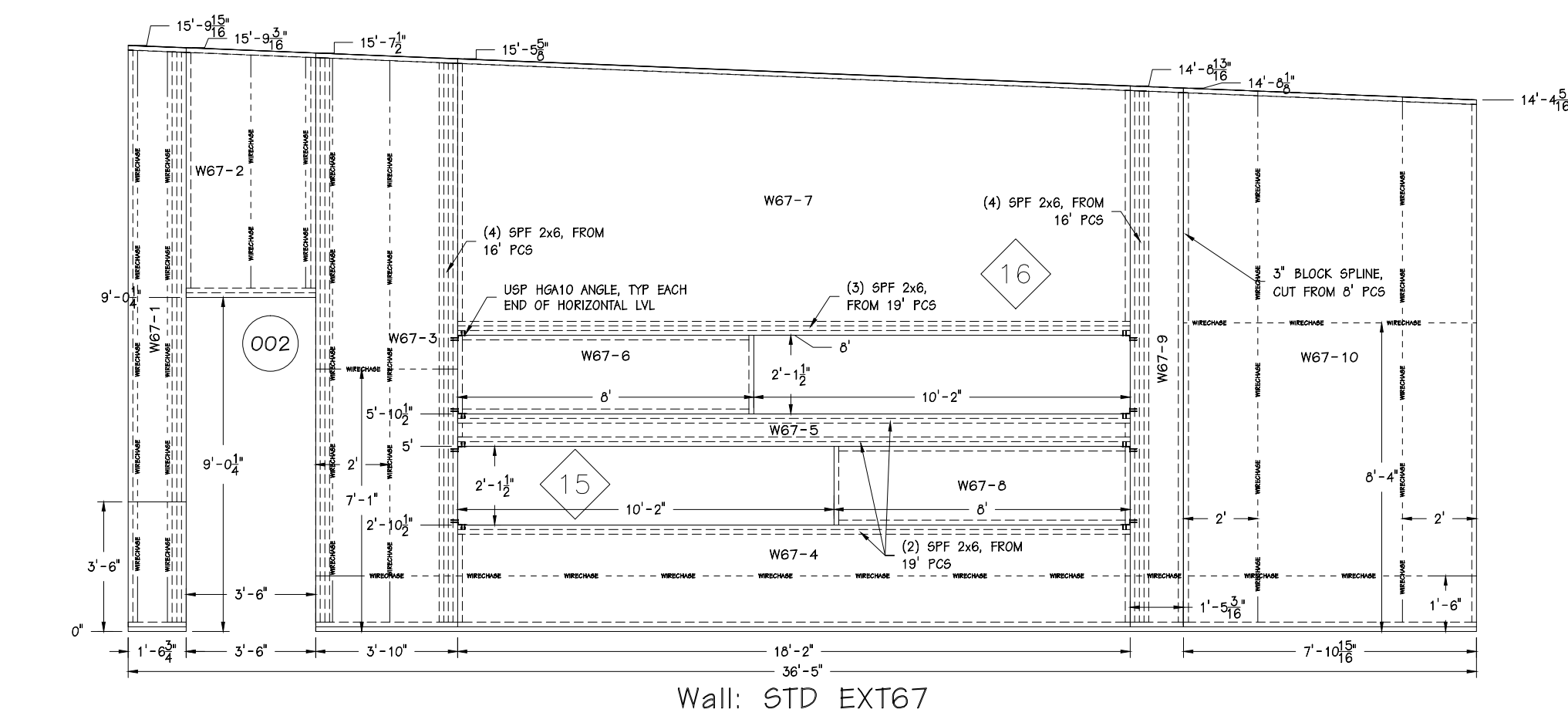
SCALE: NOTED	DATE: 5/24/11	REV: 7/13/11	S12
DRAWN BY: DMM	REVIEWED BY: RGW	REV: 8/8/2011	
DWG NO: 2011/HOUSE/74979		REV: 0	



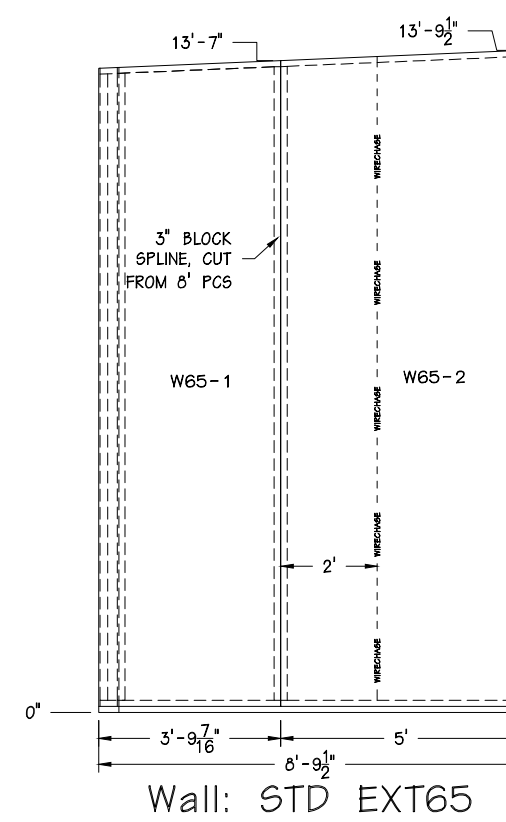
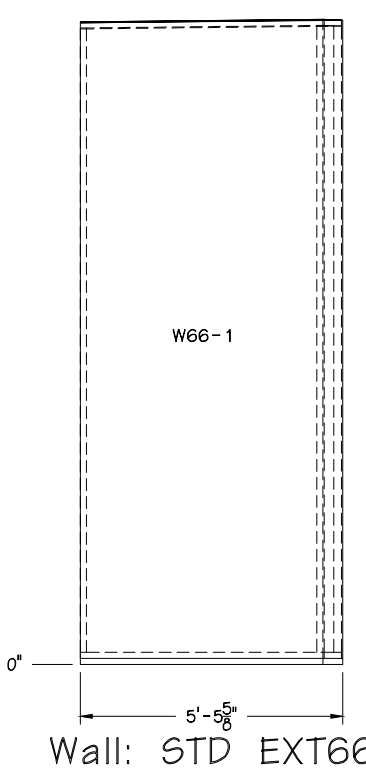
2 WEST PANEL ELEVATION - SOUTH

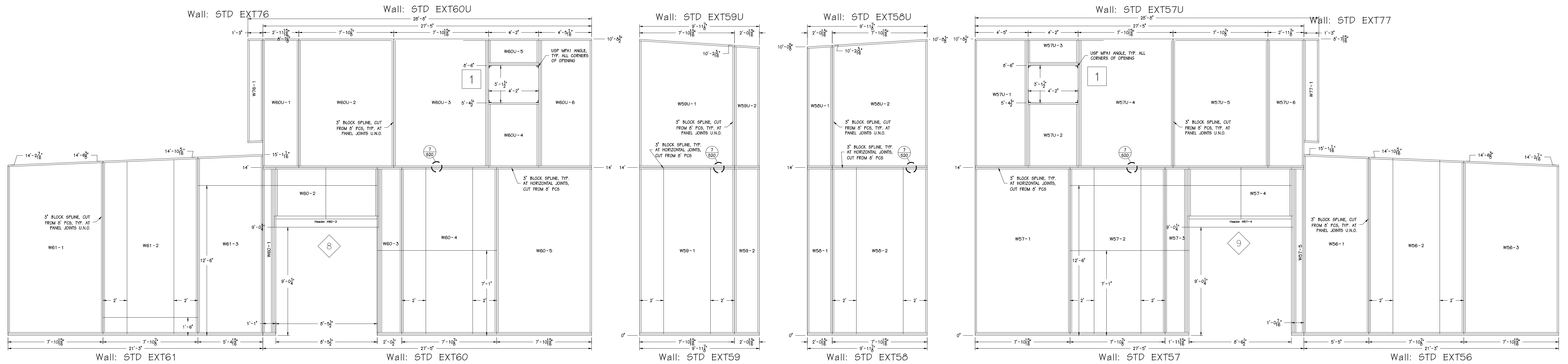


3 EAST PANEL ELEVATION - SOUTH

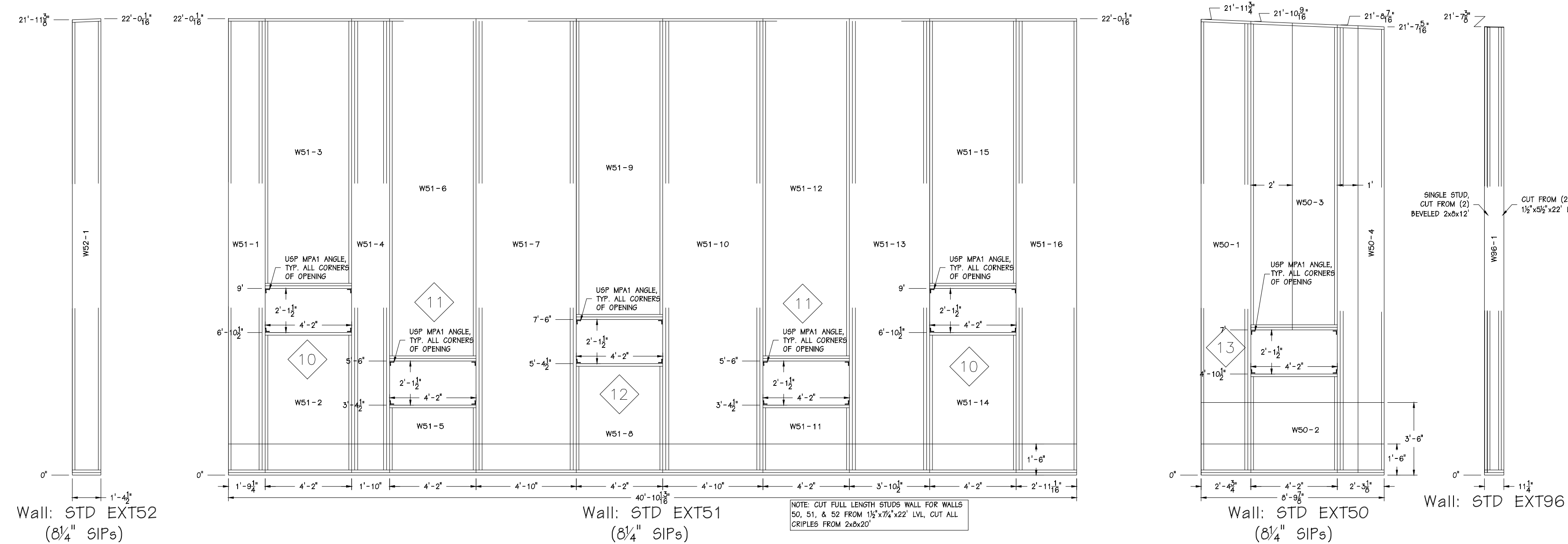


5 FACULTY OFFICE WALLS



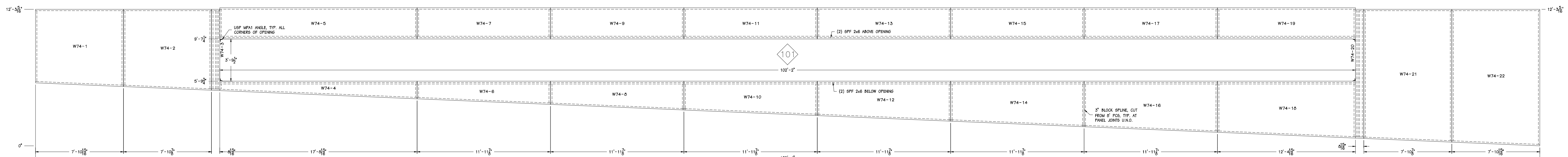


1 SOUTH PANEL ELEVATION
SCALE: 1/4" = 1'-0"

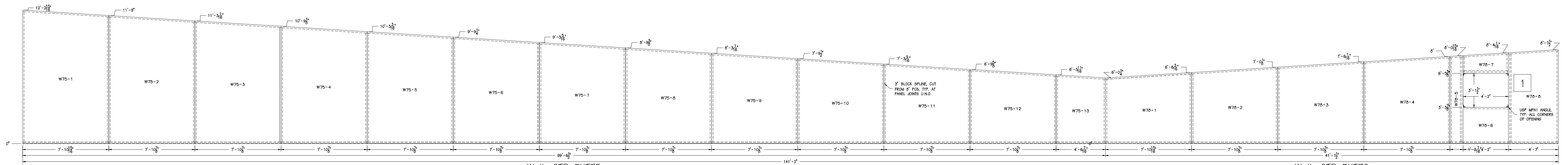


2 ADMINISTRATION WALL PANEL ELEV.
SCALE: 1/4" = 1'-0"

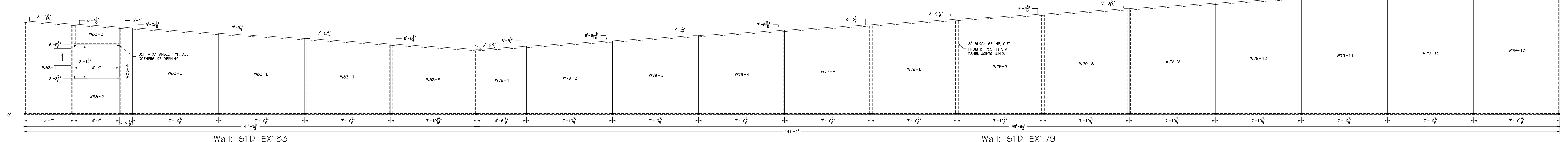
 <p>Steven Schaefer Associates, Inc. Consulting Structural Engineers</p> <p>10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 Phone: 513-542-3300 800-542-3302 Fax: 513-542-5540 www.ssastructural.com</p>		 <p>ENERGY PANEL STRUCTURES 102 EAST INDUSTRIAL PARK GRAFFIETOWN, IA 51342 PHONE: 712-859-3219 FAX: 712-859-3275 WWW.EPSBUILDINGS.COM</p>		<p>ESTES CONSTRUCTION</p> <p>SILVIS MIDDLE SCHOOL</p> <p>SOLID CORE PANEL PACKAGE</p> <table border="1"> <tr> <td>SCALE: NOTED</td> <td>DATE: 5/24/11</td> <td>REV: 7/13/11</td> <td rowspan="3">SHEET: S14</td> </tr> <tr> <td>DRAWN BY: DMM</td> <td>REVIEWED BY: RGM</td> <td>REV: 8/8/2011</td> </tr> <tr> <td>DWG NO: 2011/HOUSE/74979</td> <td></td> <td>REV: 0</td> </tr> </table>		SCALE: NOTED	DATE: 5/24/11	REV: 7/13/11	SHEET: S14	DRAWN BY: DMM	REVIEWED BY: RGM	REV: 8/8/2011	DWG NO: 2011/HOUSE/74979		REV: 0
SCALE: NOTED	DATE: 5/24/11	REV: 7/13/11	SHEET: S14												
DRAWN BY: DMM	REVIEWED BY: RGM	REV: 8/8/2011													
DWG NO: 2011/HOUSE/74979		REV: 0													



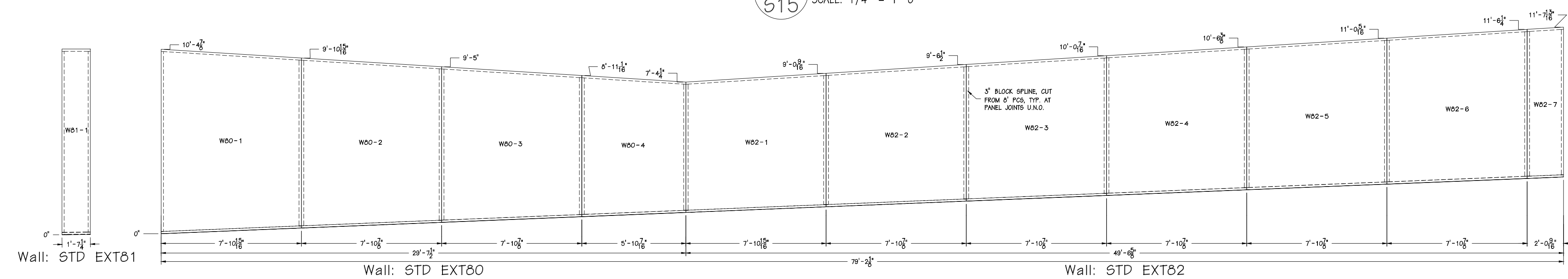
1 SOUTH CLERESTORY - NORTH ELEVATION
SCALE: 1/4" = 1'-0"



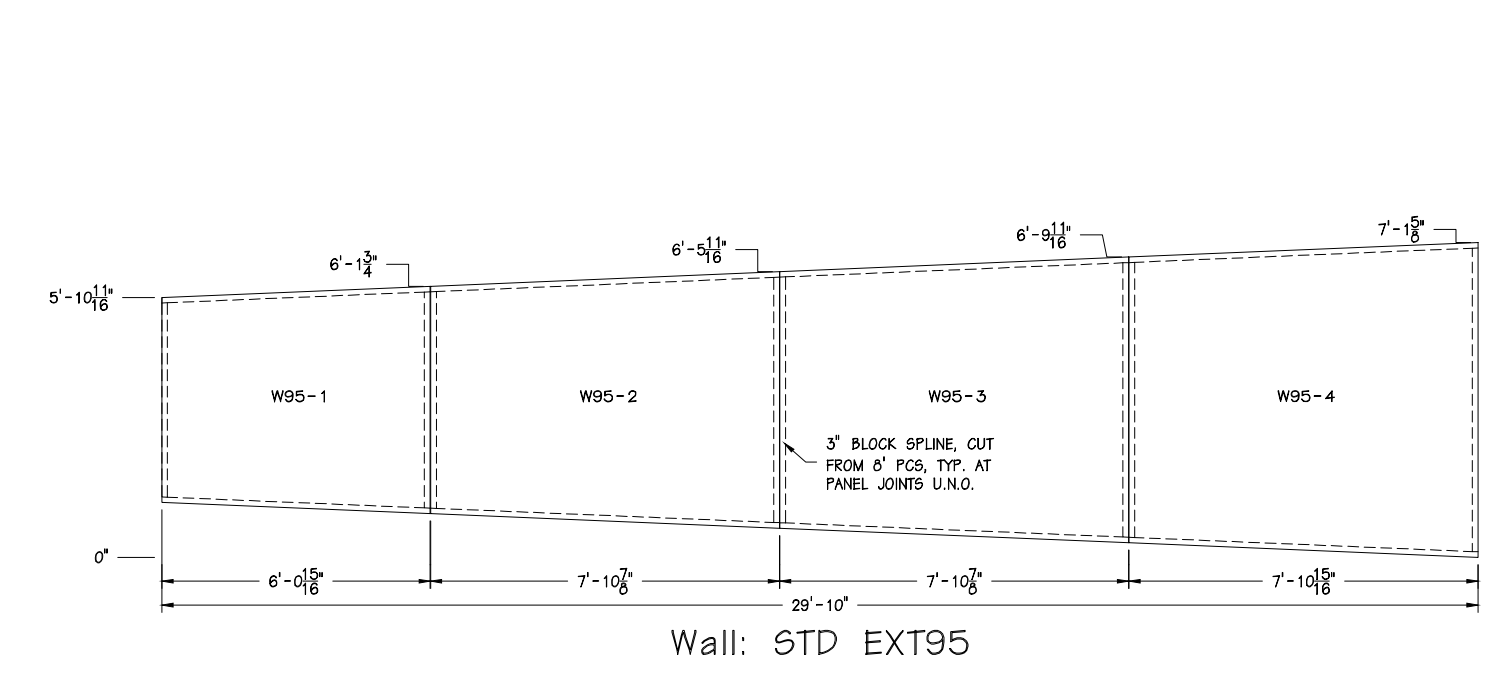
2 SOUTH CLERESTORY - WEST ELEVATION
SCALE: 1/4" = 1'-0"



3 SOUTH CLERESTORY - EAST ELEVATION
SCALE: 1/4" = 1'-0"

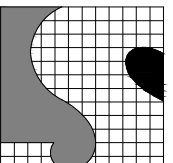


4 NORTH CLERESTORY - SOUTH ELEVATION
SCALE: 1/4" = 1'-0"




6 WEDGE CLERESTORY - SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

3 SOUTH CLERESTORY - SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



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.sasstructural.com



EPS
AN EMPLOYEE-OWNED COMPANY

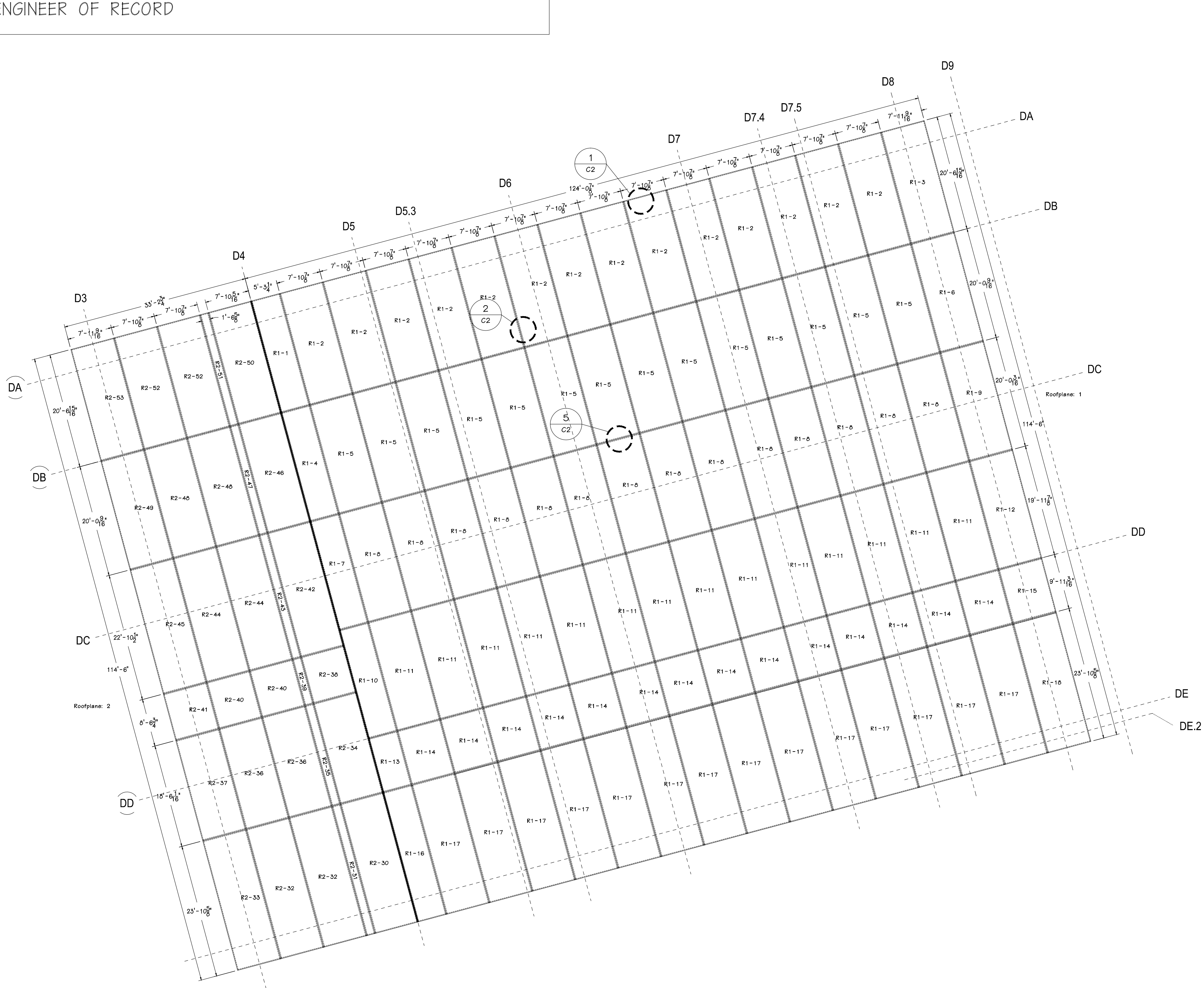
ENERGY PANEL STRUCTURES
102 EAST INDUSTRIAL PARK
GRANTTOWN, IA 51542
PHONE: 712/859-3219
FAX: 712/859-3275
WWW.EPSBUILDINGS.COM

ESTES CONSTRUCTION

SILVIS MIDDLE SCHOOL
SOLID CORE PANEL PACKAGE

SCALE: NOTED	DATE: 5/24/11	REV: 7/13/11	SHEET:
DRAWN BY: DMM	REVIEWED BY: RGM	REV: 8/5/2011	S15
DWG NO. 2011/HOUSE/74979		REV: 0	

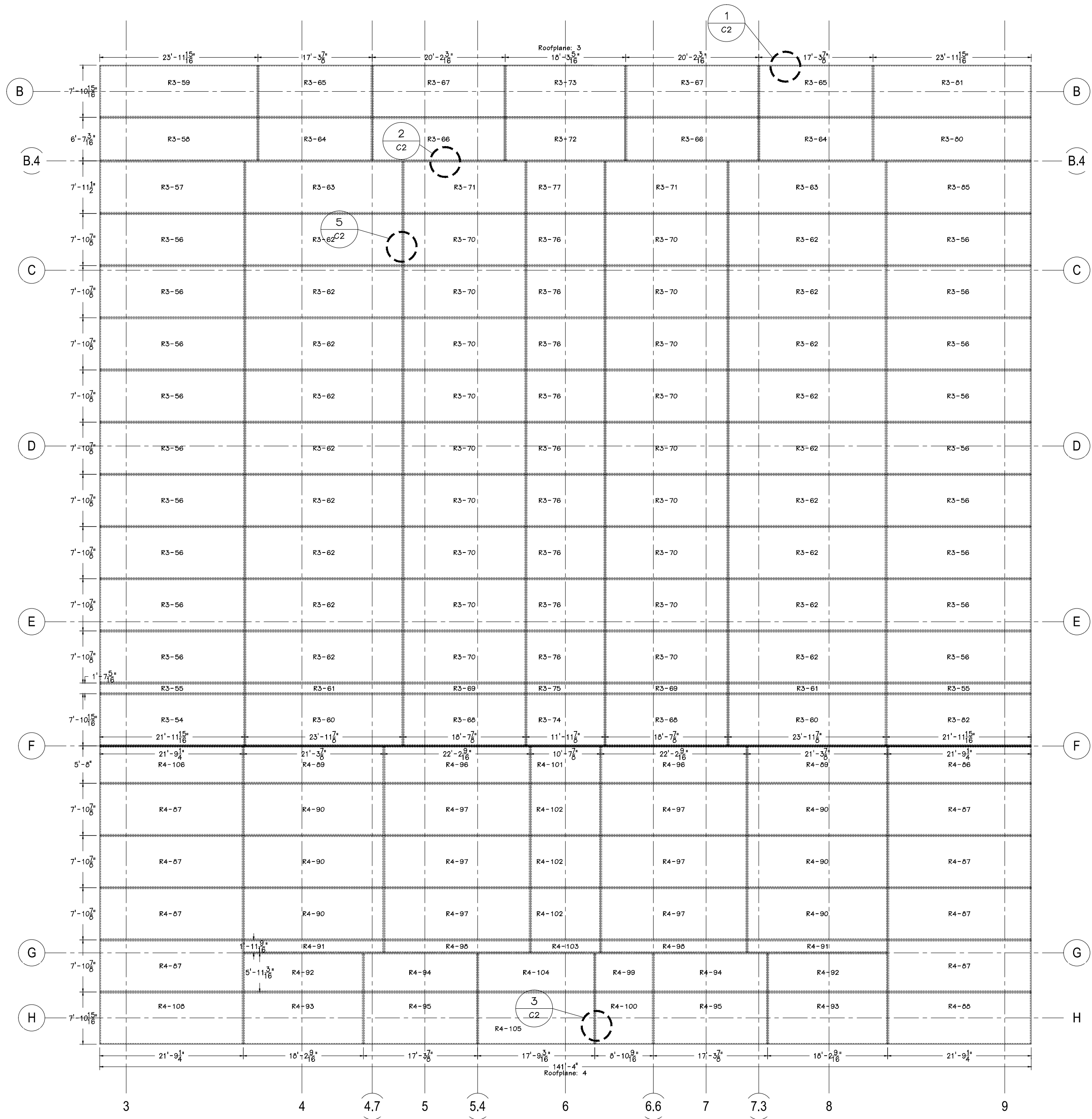
CRICKET FRAMING INDICATED ON A301 SHALL BE CONSTRUCTED SUCH THAT ALL SUPORT POSTS ARE LOCATED OVER BAR JOISTS BELOW THE SIPs, OR THE LOAD IS DISTRIBUTED TO THE SIPs BY A MINIMUM 1'-0" LONG SECTION OF 2x12 ON THE FLAT. SECURING THE CRICKET FRAMING TO THE SIP ROOF PANELS TO RESIST UPLIFT FORCES IS THE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



1 ROOF PANEL LAYOUT - NORTH
SCALE: 3/32" = 1'-0"

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 10 1/4" SIPs, UNLESS NOTED OTHERWISE



1 ROOF PANEL LAYOUT - SOUTH - UPPER
SCALE: 3/32" = 1'-0"

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

EPS
AN EMPLOYEE-OWNED COMPANY
ENERGY PANEL STRUCTURES
102 EAST INDUSTRIAL PARK
GRAETTINGER, IA 51342
PHONE: 712-859-3219
FAX: 712-859-3275
WWW.EPSBUILDINGS.COM

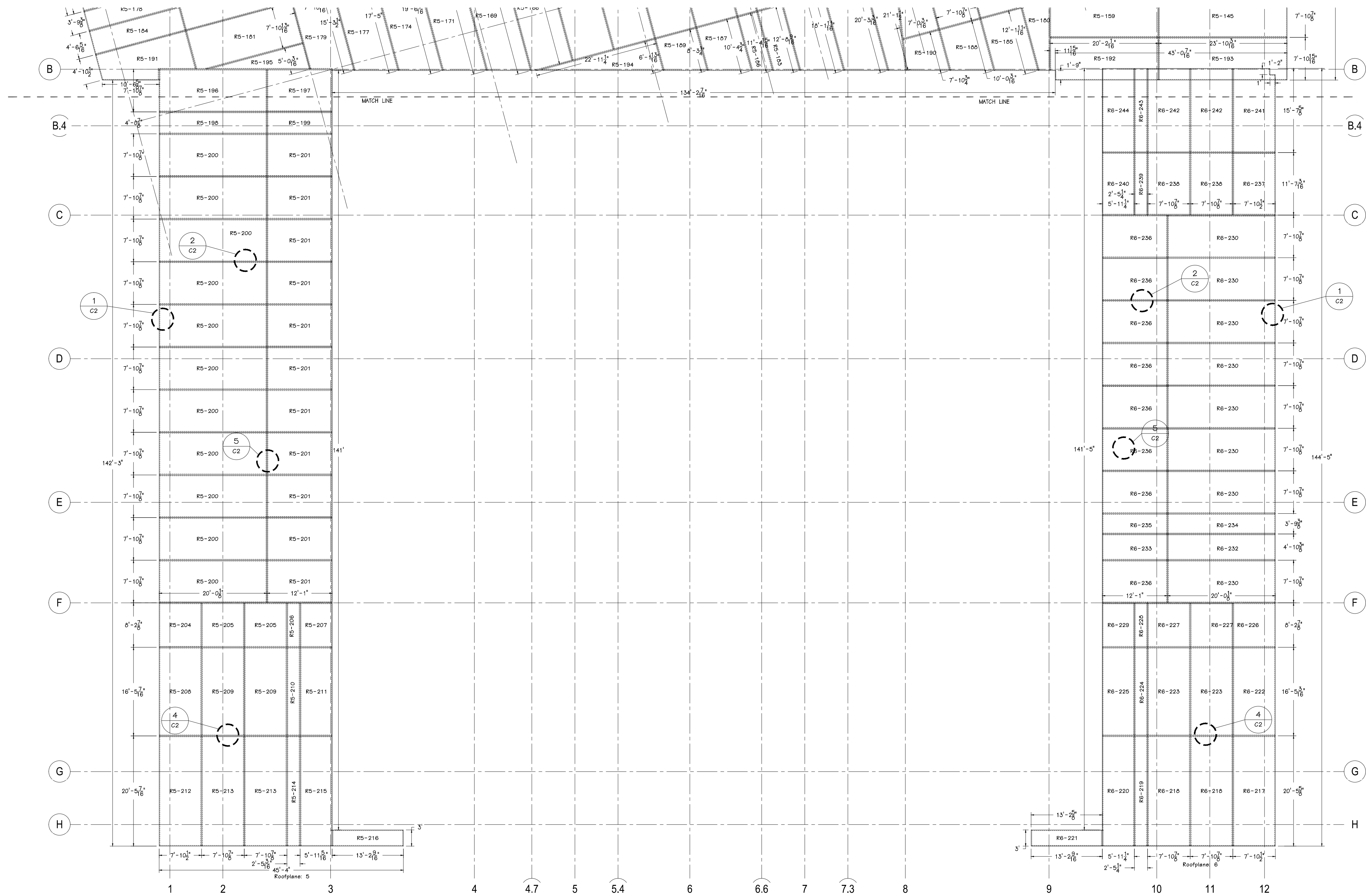
ESTES CONSTRUCTION
SILVIS MIDDLE SCHOOL
SOLID CORE PANEL PACKAGE
SCALE: NOTED DATE: 5/24/11 REV: 7/13/11 SHEET:
DRAWN BY: DMM REVERSED BY: RGM REV: 6/6/2011
DWG NO: 2011/HOUSE/74979 REV: 0
S16



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



SCALE: NOTED	DATE: 5/24/11	REV. 7/13/11	SHEET: S17
DRAWN BY: DMM	REVIEWED BY: RGW	REV. 8/8/2011	
DWG NO. 2011/HOUSE/74979		REV. 0	



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

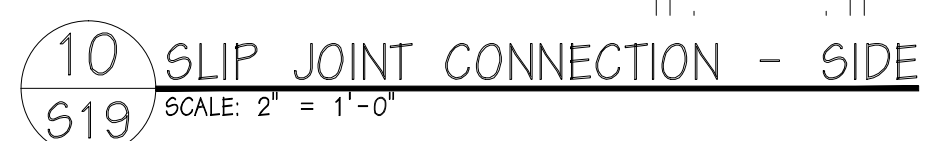
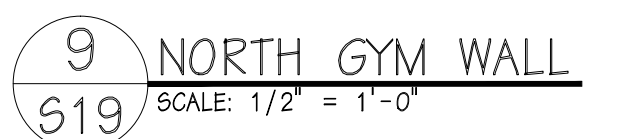
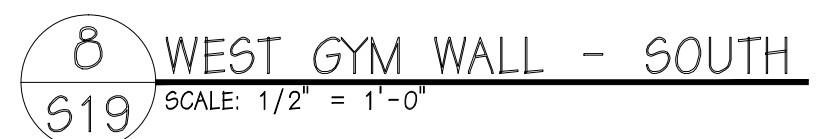
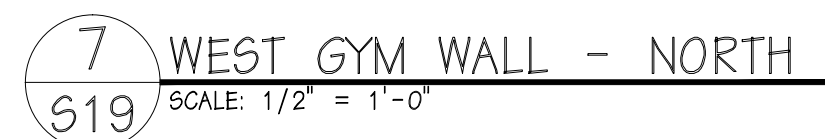
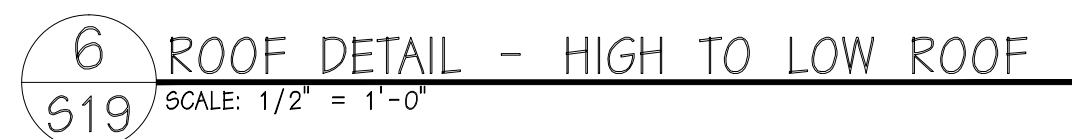
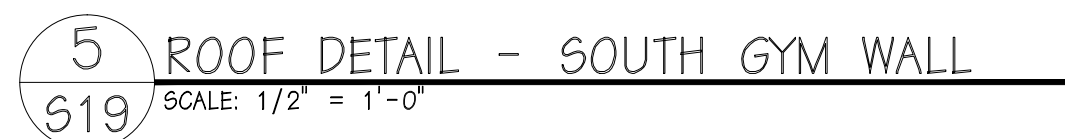
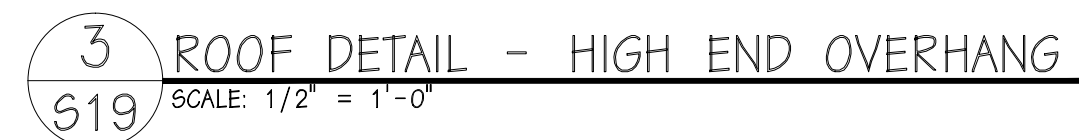
ROOF PANELS ARE 10 1/4" SIPs, UNLESS NOTED OTHERWISE

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.sasstructural.com

EPS
AN EMPLOYEE-OWNED COMPANY
ENERGY PANEL STRUCTURES
102 EAST INDUSTRIAL PARK
GRAFFTINGER, 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	SHEET:
DRAWN BY: DMH	REVIEWED BY: RGW	REV: 8/8/2011	S18
DWG NO: 2011/HOUSE/74979	REV: 0		



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

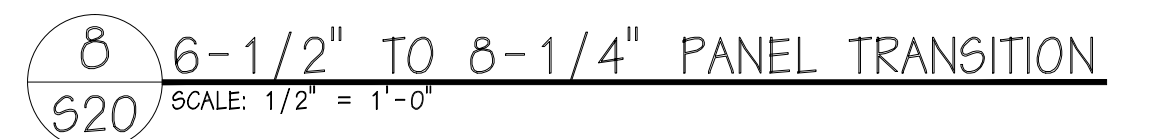
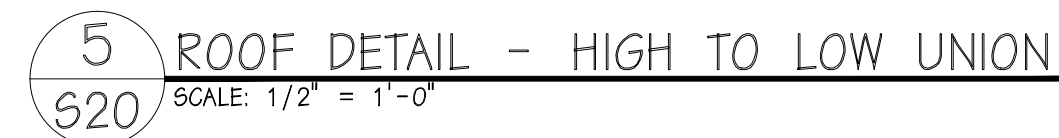
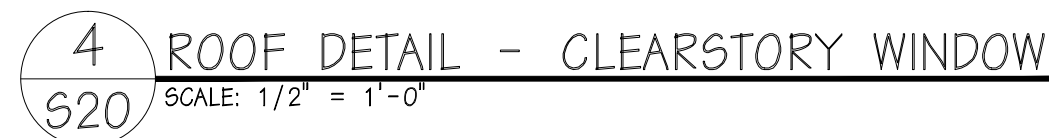
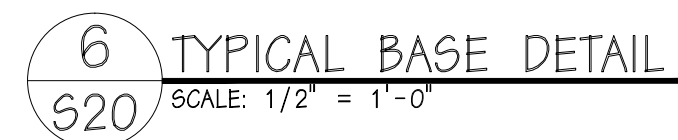
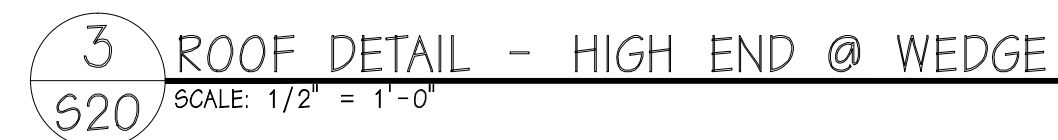
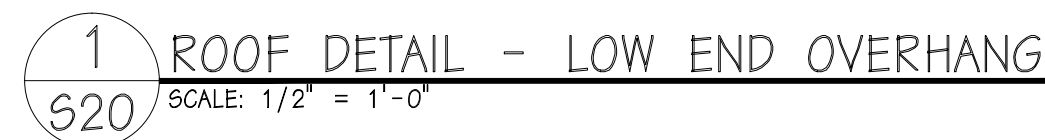
1. BE SURE TEMPERATURE OF MATERIALS AND AMBIENT TEMPERATURE ARE BOTH ABOVE 50° F.
2. THOROUGHLY CLEAN SURFACES.
3. APPLY SPRAY ADHESIVE PRIMER (BY OTHERS) TO A CLEAN SURFACE.
4. APPLY "PEEL & SEAL" OR ICE & WATER, BE SURE TO APPLY PRESSURE THROUGH OUT MATERIAL TO ENSURE 100% CONTACT.

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

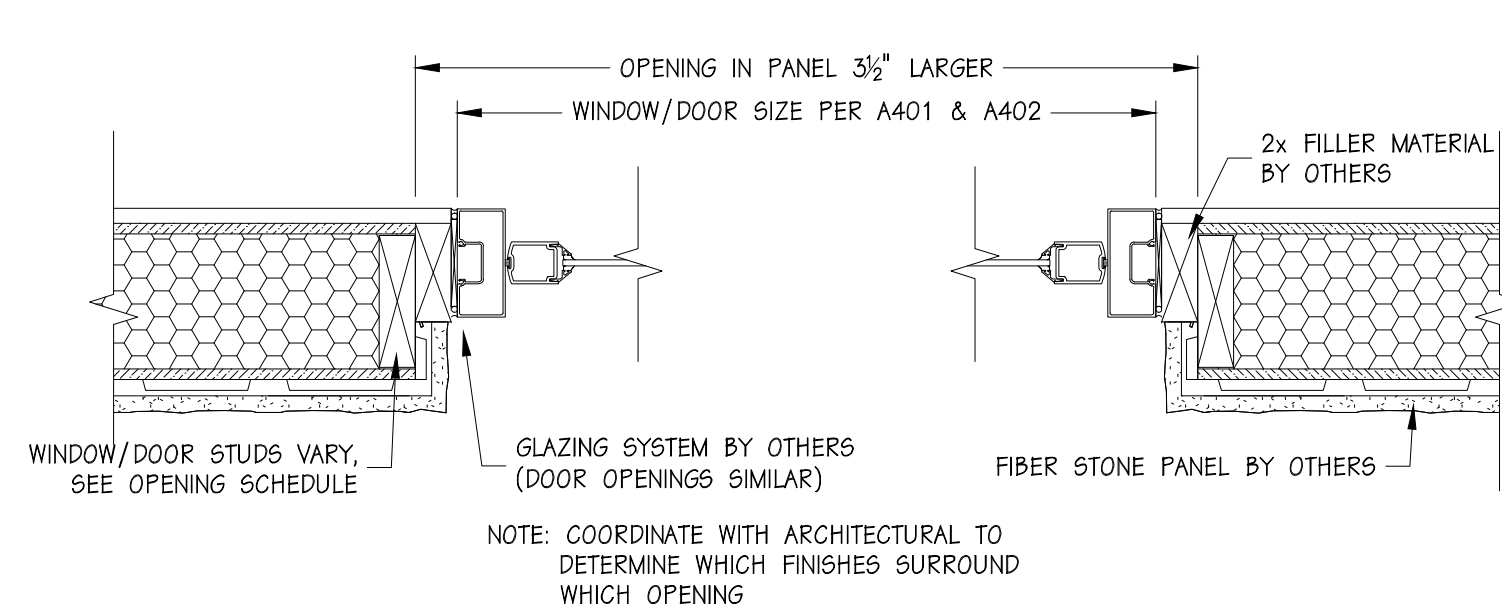
1. BE SURE TEMPERATURE OF MATERIALS AND AMBIENT TEMPERATURE ARE BOTH ABOVE 50° F.
2. THOROUGHLY CLEAN SURFACES.
3. APPLY SPRAY ADHESIVE PRIMER (BY OTHERS) TO A CLEAN SURFACE.
4. APPLY "PEEL & SEAL" OR ICE & WATER, BE SURE TO APPLY PRESSURE THROUGH OUT MATERIAL TO E



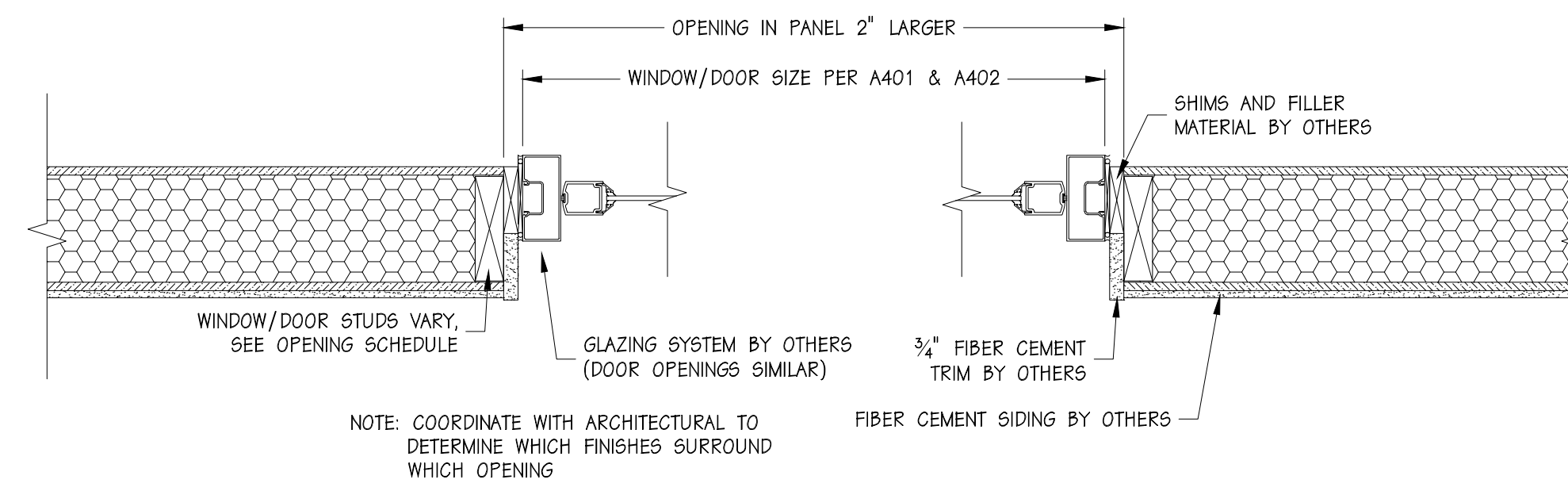
ESTES CONSTRUCTION			
SILVIS MIDDLE SCHOOL			
SOLID CORE PANEL PACKAGE			
SCALE: NOTED	DATE: 5/24/11	REV: 7/13/11	SHEET: 1
DRAWN BY: DMM	REVIEWED BY: RGW	REV: 6/6/2011	S19
DWG NO: 2011/HOUSE/74979		REV: 0	



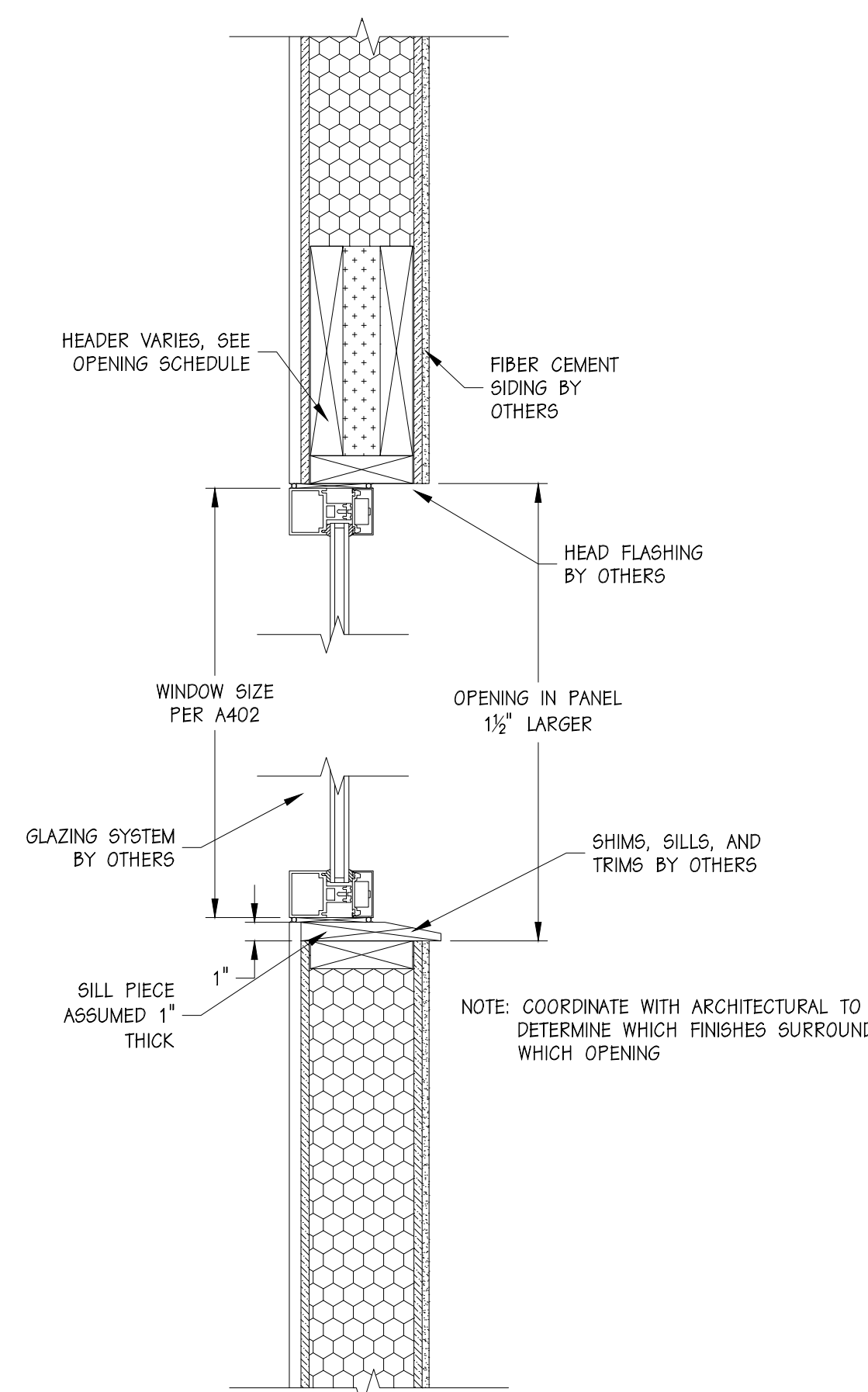
ESTES CONSTRUCTION			
SILVUS MIDDLE SCHOOL			
SOLID CORE PANEL PACKAGE			
SCALE: NOTED	DATE: 6/24/11	REV: 7/13/11	SHEET:
DRAWN BY: DMM	REVIEWED BY: RGW	REV: 6/6/2011	S20
DATE: 2011/HOUSE/74939	REV: 0		



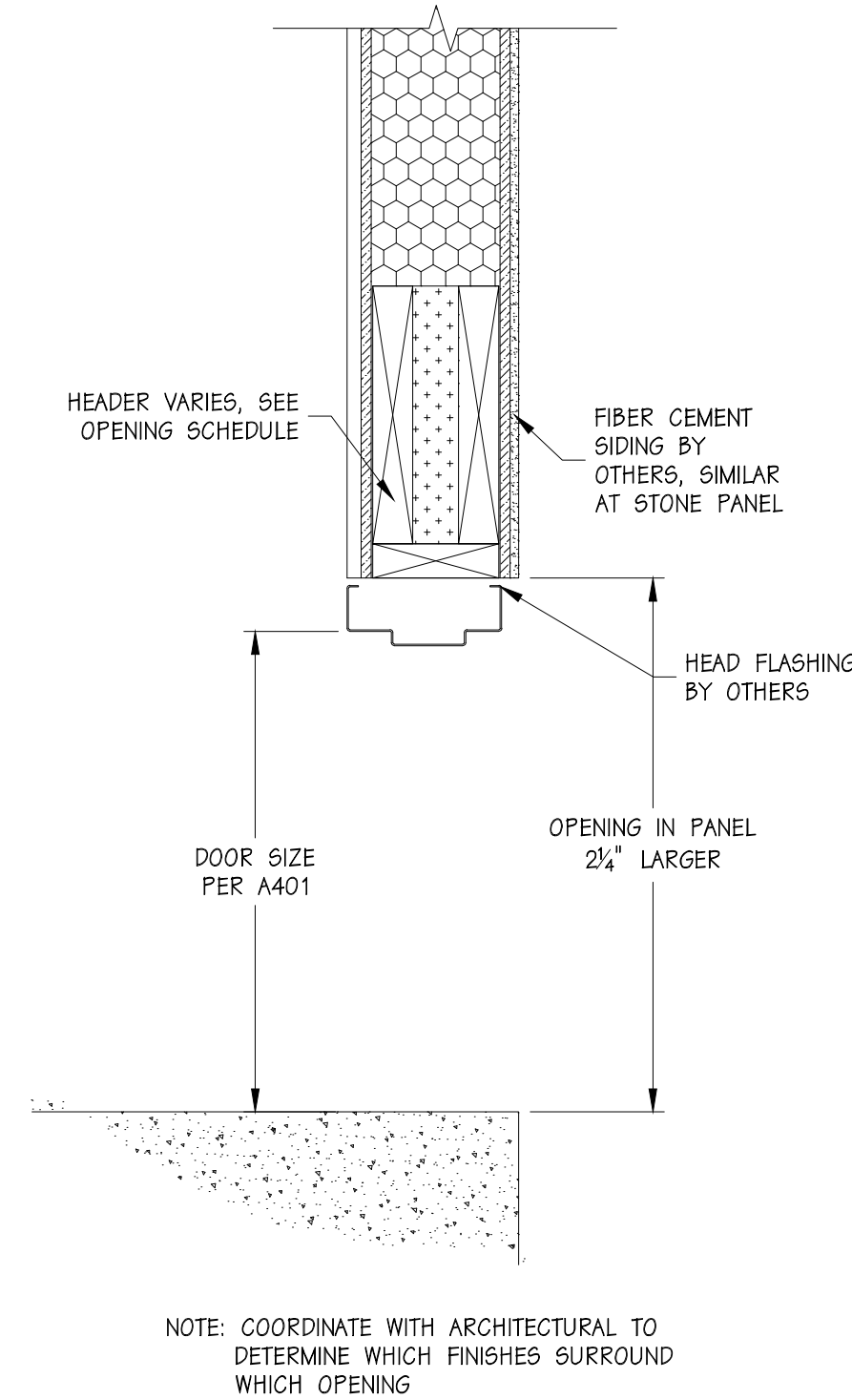
1 WINDOW SIDE JAMB AT STONE PANEL
S21 SCALE: 1/2" = 1'-0"



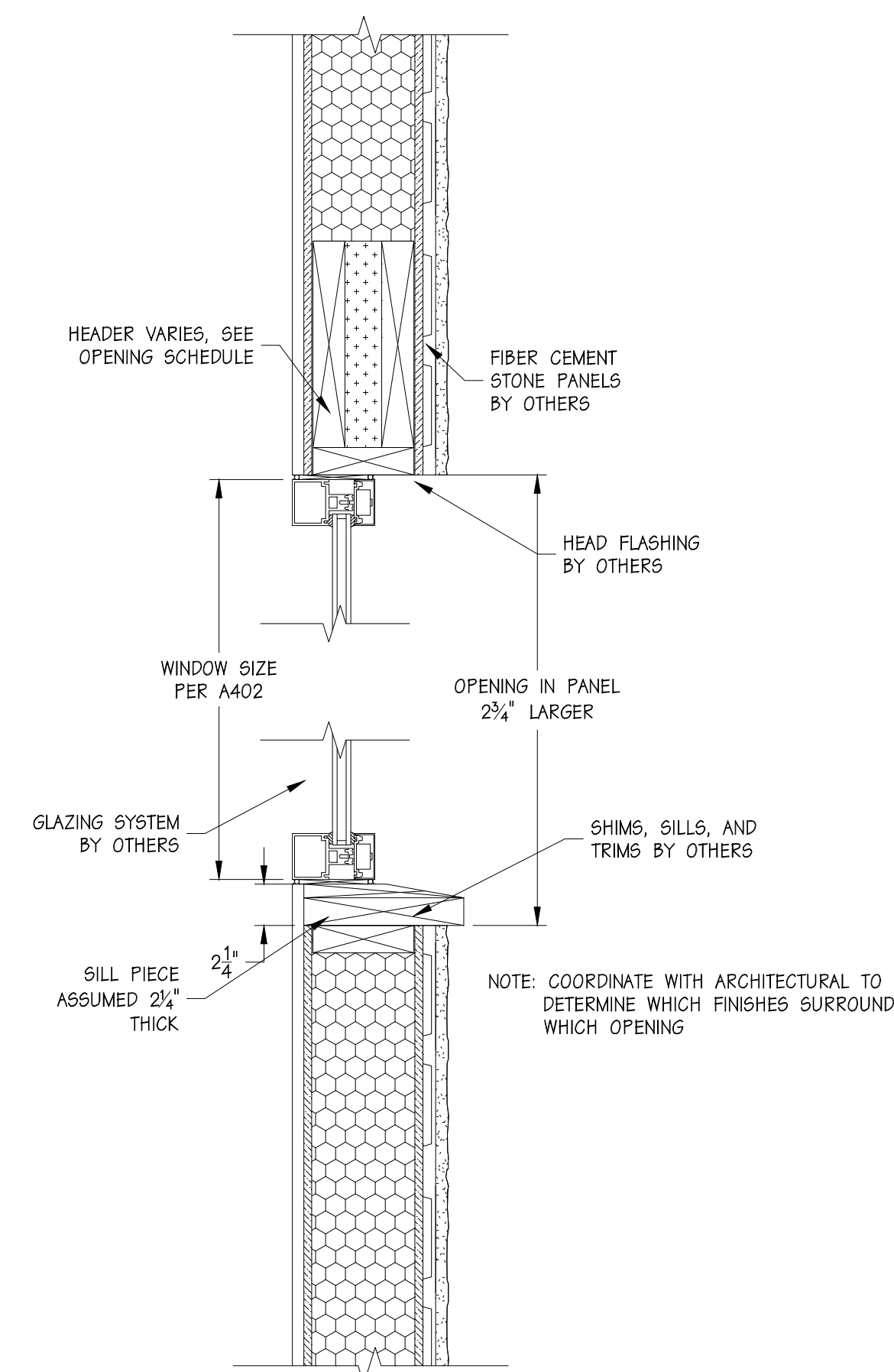
2 WINDOW SIDE JAMB AT FIBER CEMENT
S21 SCALE: 1/2" = 1'-0"



3 WINDOW HEAD AND SILL AT FIBER CEMENT
S21 SCALE: 1/2" = 1'-0"



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

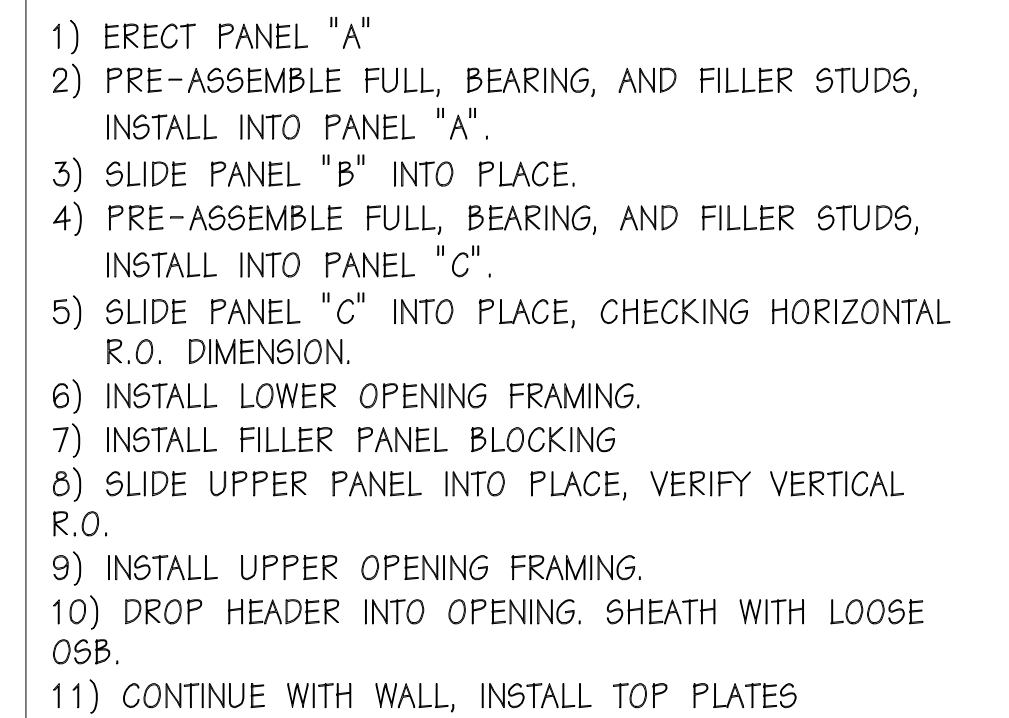
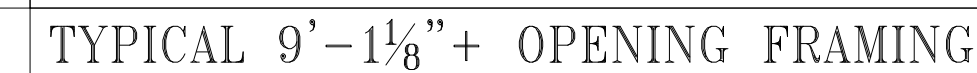


5 DOOR HEAD AND SILL AT STONE PANEL
S21 SCALE: 1/2" = 1'-0"



WALL PANEL/FLOOR ADHESIVE SCHEDULE			
COMONENTS	TYPE OF ADHESIVE	FREQUENCY	SUPPLIED BY
BASE PLATE TO SILL PLATE	CONSTRUCTION ADHESIVE PL-450	(2) CONTINUOUS BEADS	EP5
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	EP5
TOP PLATE TO CAP PLATE	CONSTRUCTION ADHESIVE PL-450	(2) CONTINUOUS BEADS	EP5

7/C1 - FASTENING SCHEDULE



ESTES CONSTRUCTION

SILVIS MIDDLE SCHOOL
SOLID CORE PANEL PACKAGE

SCALE: NOTED	DATE: 5/24/11	REV. 7/13/11	SHEET: C1
DRWN BY: DMM	REVIEWED BY: RGW	REV. 8/8/2011	
DWG NO. 2011/HOUSE/74979		REV. 0	

C1



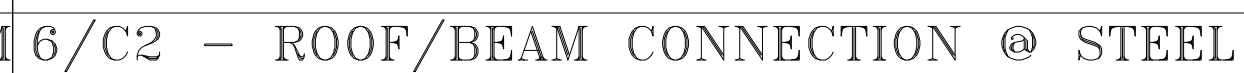
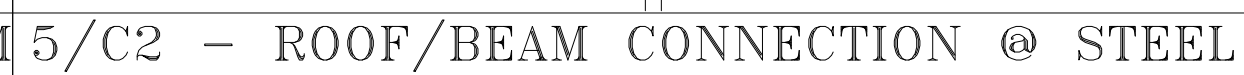
10411 Medallion Drive, Suite 121 Cincinnati, OH 45241
Phone: 513-542-3300 800-542-3302 Fax: 513-542-5540
www.ssastructural.com



SCALE: NOTED	DATE: 5/24/11	REV. 7/13/11	SHEET: C1
DRWN BY: DMM	REVIEWED BY: RGW	REV. 8/8/2011	
DWG NO. 2011/HOUSE/74979		REV. 0	



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

7/C1 – FASTENING SCHEDULE



SCALE: NOTED	DATE: 5/24/11	REV. 7/13/11	SHEET
DRAWN BY: DMM	REVIEWED BY: RGW	REV. 8/8/2011	
DWG NO. 2011/HOUSE/74979		REV. 0	

C2