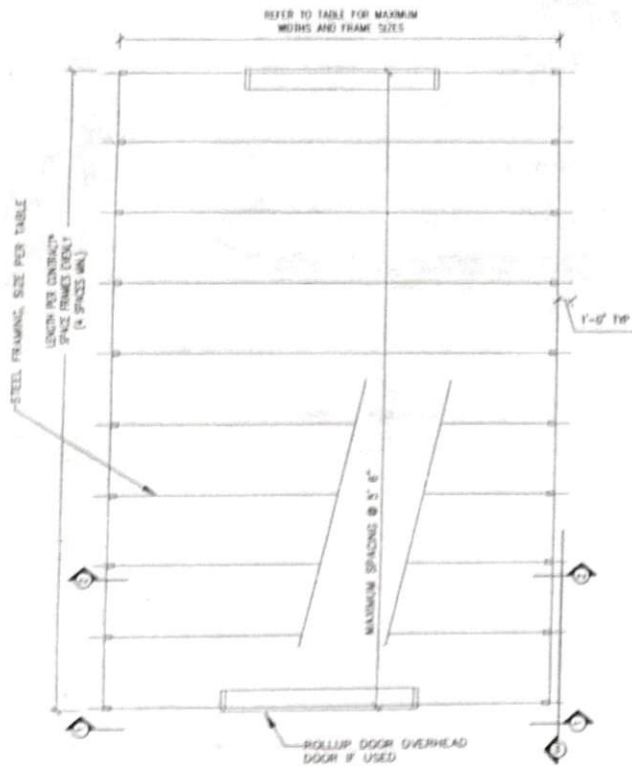


NOTICE TO CONTRACTOR  
 All construction shall comply with applicable Building Codes and all applicable regulations and ordinances.

APPROVED  
 Limited liability only review  
 Permit holder responsible for full compliance with the code

03/25/2021





PLAN VIEW  
 NOT TO SCALE  
 ENCLOSED BUILDING, SIZE PER SPAN CHART  
 FULL SIDE COVERAGE

\* MAXIMUM LENGTH IS NOT LIMITED

NOTE:  
 ALL SIZES ARE 3x7 RBE  
 STEEL (F<sub>y</sub> = 50KSI)

| MAX HEIGHT | 9'    | 12'  |
|------------|-------|------|
| 12' 0"     | 11 GA | 9 GA |
| 16' 0"     | 9 GA  | 9 GA |
| 20' 0"     | 9 GA  | 9 GA |
| 24' 0"     | 9 GA  | 9 GA |
| 28' 0"     | 9 GA  | 9 GA |

BRACE LOCATED @ 2'-2" ABOVE EAVE  
 BRACE LOCATED @ 1'-8" ABOVE EAVE  
 BRACE LOCATED @ 1'-0" ABOVE EAVE

TO USE SPAN CHART:

1. SELECT WIDTH OF BUILDING DESIRED.
2. SELECT EAVE HEIGHT OF BUILDING - THIS IS DIMENSION TO TOP OF COLUMN FROM GRADE.
3. FOLLOW HORIZONTAL LINE FROM WIDTH TO CORRECT HEIGHT COLUMN.
4. SELECT GAGE LISTED.
5. INTERPOLATION BETWEEN SIZES IS NOT PERMITTED.
6. THIS TABLE TO BE USED WITH DRAWINGS S1 THRU S6 ONLY.
7. CENTER BRACE REQUIRED IF SIZE IS HATCHED AS SHOWN. LOCATION SPECIFIED @ RIGHT OF TABLE.



**BARTLETT**  
 ENGINEERING & SURVEYING, PC

1906 NASH STREET NORTH  
 WILSON, NORTH CAROLINA 27893  
 TEL (252)399-0704 FAX (252)399-0804

|                 |                      |
|-----------------|----------------------|
| DATE: MAY 2012  | CADFILE: 074380T11-A |
| SCALE: NO SCALE | DRAWN BY: LR         |
| CLIENT: CARSTRU | SURVEYED BY:         |

CAROLINA STRUCTURAL, LLC  
 4241 WILLIAMSON ROAD  
 WILSON, NC 27893

12'-28' WIDE 4/12 PITCH  
 ENCLOSED BUILDING  
 130 MPH WIND LOAD

PLAN VIEW

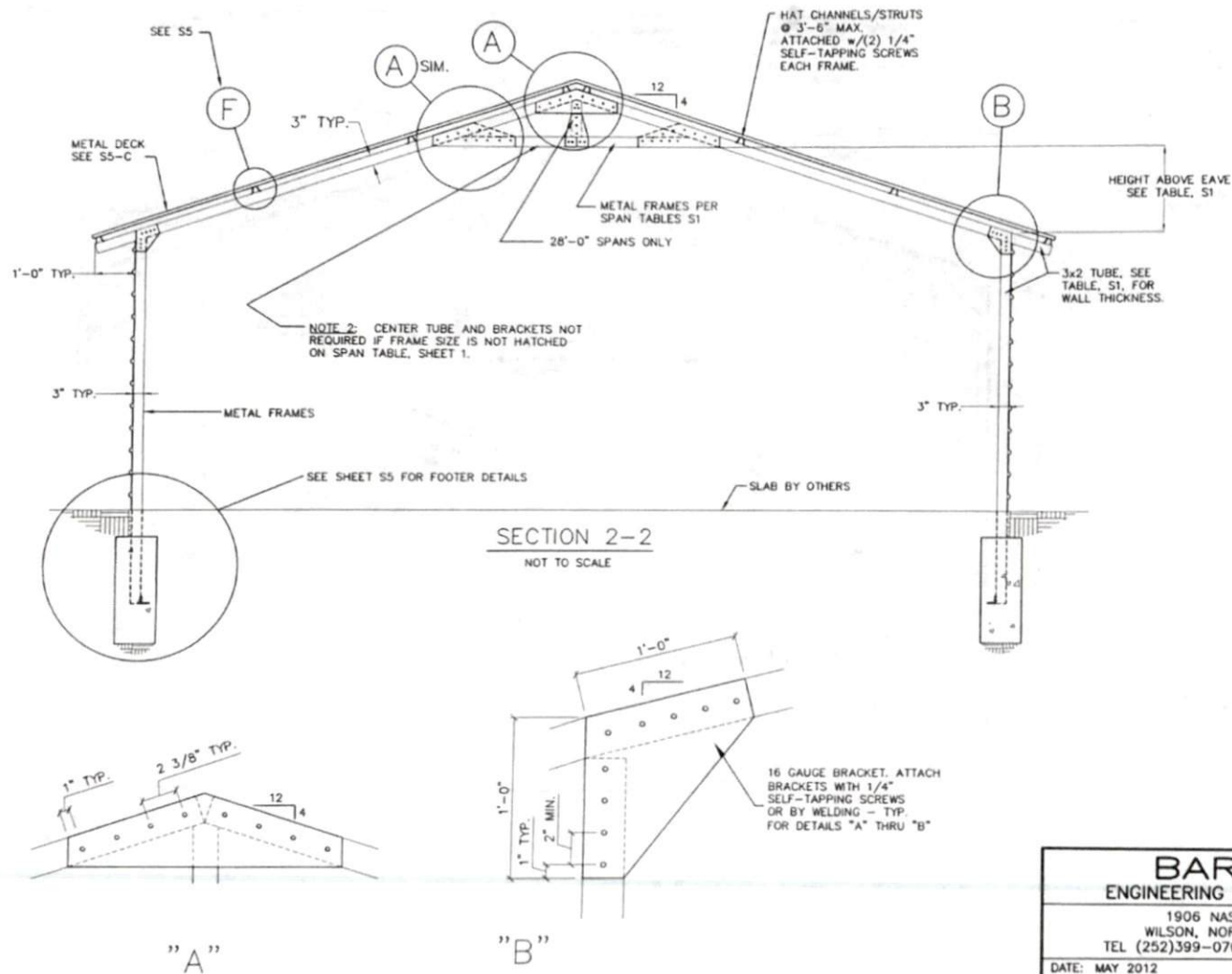
S1

CAROLINA STRUCTURAL, LLC  
 4241 WILLIAMSON ROAD  
 WILSON, NC 27893

12'-28" WIDE 4/12 PITCH  
 ENCLOSED BUILDING  
 130 MPH WIND LOAD

SECTION 2

S2



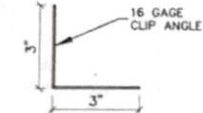
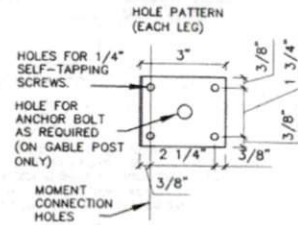
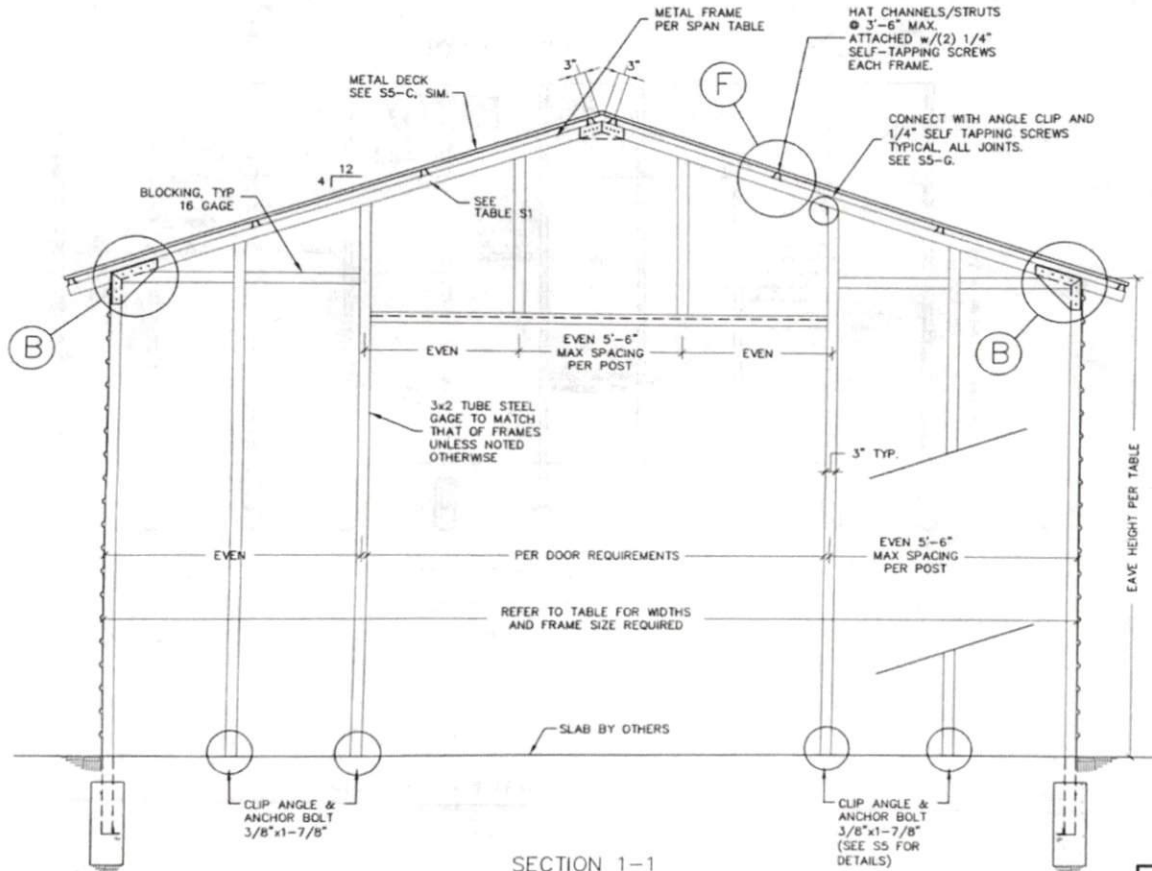
|   |                      |
|---|----------------------|
| <b>BARTLETT</b><br>ENGINEERING & SURVEYING, PC  |                      |
| 1906 NASH STREET NORTH<br>WILSON, NORTH CAROLINA 27893<br>TEL (252)399-0704 FAX (252)399-0804 |                      |
| DATE: MAY 2012  | CADFILE: 074380T11-B |
| SCALE: NO SCALE   | DRAWN BY: LR         |
| CLIENT: CARSTRU   | SURVEYED BY:         |

CAROLINA STRUCTURAL, LLC  
 4241 WILLIAMSON ROAD  
 WILSON, NC 27893

12'-28" WIDE 4/12 PITCH  
 ENCLOSED BUILDING  
 130 MPH WIND LOAD

SECTION 1

S3



NOTE:  
 1) TYPICAL CONNECTION =  
 2 SCREWS (MIN.) PER LEG  
 IN A DIAGONAL PATTERN.  
 2) MOMENT CONNECTION =  
 2 SCREWS (MIN.) IN HOLES  
 NOTED.

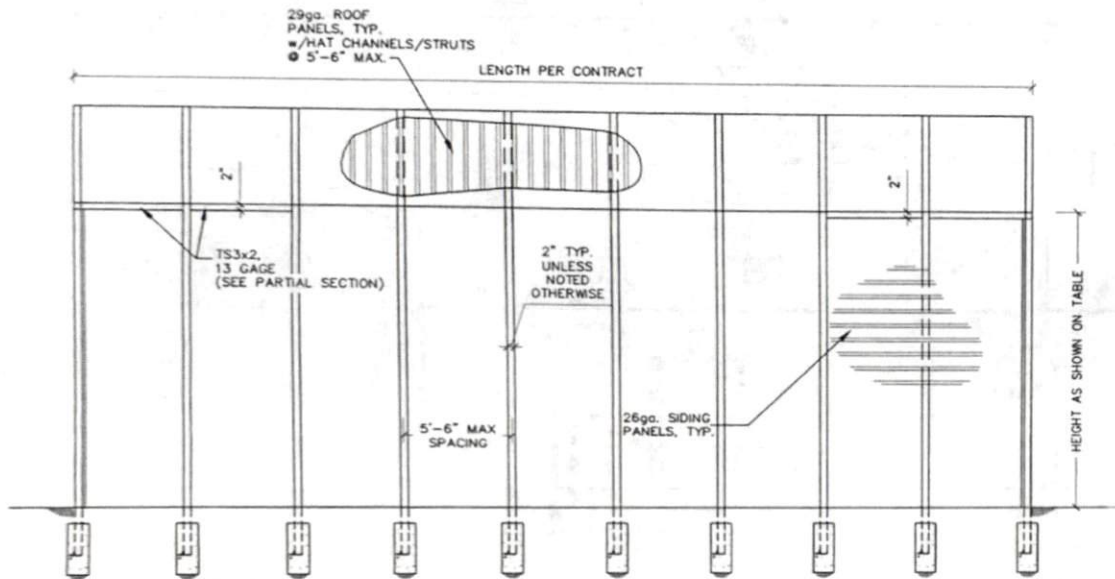
"G"

NOTE:  
 BLOCKING ATTACHED WITH  
 16 GAGE CLIP ANGLE.  
 SEE S5 FOR DETAILS



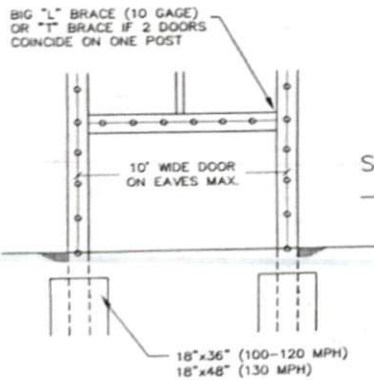
SECTION 1-1  
 WITH GARAGE DOOR  
 NOT TO SCALE

|   |                      |
|---|----------------------|
| <b>BARTLETT</b><br>ENGINEERING & SURVEYING, PC  |                      |
| 1906 NASH STREET NORTH<br>WILSON, NORTH CAROLINA 27893<br>TEL (252)399-0704 FAX (252)399-0804 |                      |
| DATE: MAY 2012  | CADFILE: 074380T11-C |
| SCALE: NO SCALE   | DRAWN BY: LR         |
| CLIENT: CARSTRU   | SURVEYED BY:         |

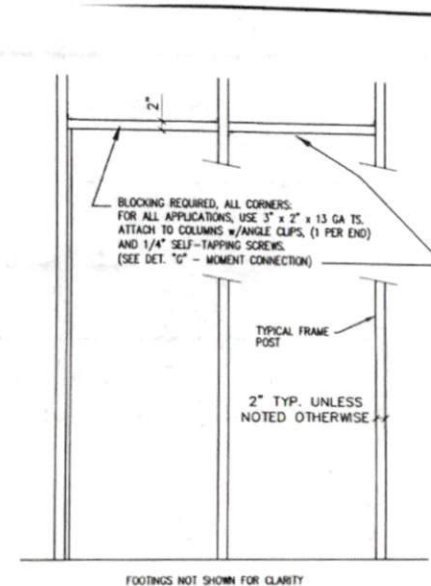


ENCLOSED BUILDING, SIZE PER TABLE

SECTION 3-3  
NOT TO SCALE



SECTION 3-3 (PARTIAL)  
FOR GARAGE DOOR  
NOT TO SCALE



SECTION 3-3 (PARTIAL)  
NOT TO SCALE



|   |                      |
|---|----------------------|
| <b>BARTLETT</b><br>ENGINEERING & SURVEYING, PC  |                      |
| 1906 NASH STREET NORTH<br>WILSON, NORTH CAROLINA 27893<br>TEL (252)399-0704 FAX (252)399-0804 |                      |
| DATE: MAY 2012  | CADFILE: 07438DT11-D |
| SCALE: NO SCALE   | DRAWN BY: LR         |
| CLIENT: CARSTRU   | SURVEYED BY:         |

CAROLINA STRUCTURAL, LLC  
4241 WILLIAMSON ROAD  
WILSON, NC 27893

12'-28" WIDE 4/12 PITCH  
ENCLOSED BUILDING  
130 MPH WIND LOAD

SECTION 3

S4

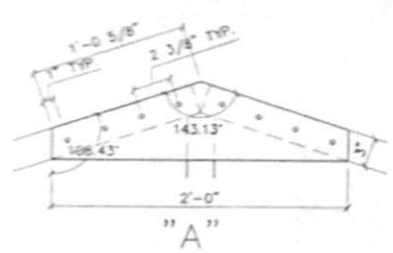


CAROLINA STRUCTURAL, LLC  
4241 WILLAMSON ROAD  
WILSON, NC 27893

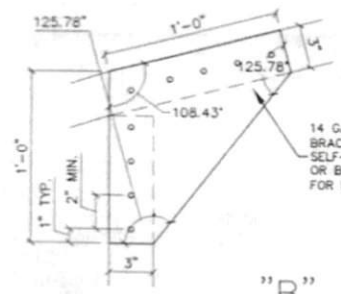
12'-28" WIDE  
ENCLOSED BUILDING  
150 MPH WIND LOAD

DETAILS

S5

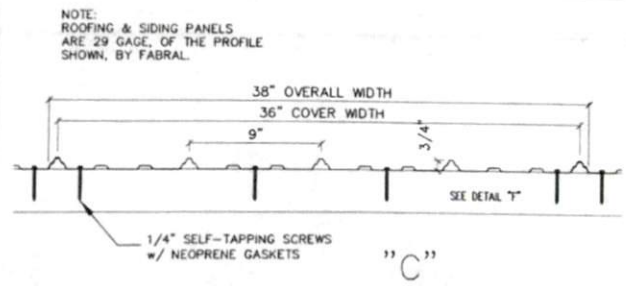


"A"



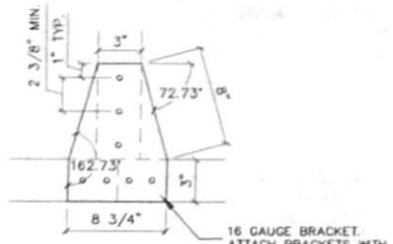
"B"

14 GAUGE BRACKET. ATTACH BRACKETS WITH 1/4" SELF-TAPPING SCREWS OR BY WELDING - TYP. FOR DETAILS "A" THRU "B"



"C"

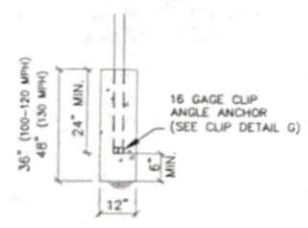
NOTE: ROOFING & SIDING PANELS ARE 29 GAGE, OF THE PROFILE SHOWN, BY FABRAL.



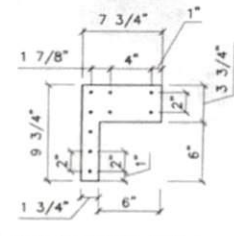
"D"

28' SPANS ONLY

16 GAUGE BRACKET. ATTACH BRACKETS WITH 1/4" SELF-TAPPING SCREWS OR BY WELDING

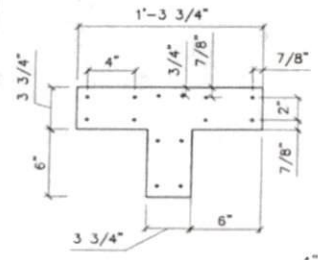


STANDARD FOOTER LESS THAN 12' EAVE HEIGHT  
12' & OVER USES 42" DEEP WITH 30" MIN. EMBEUREMENT  
STANDARD FOOTER DETAIL



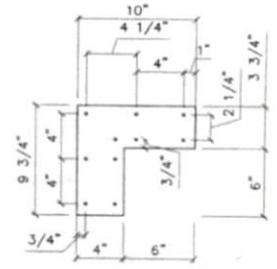
SMALL L-BRACE

16 GAUGE BRACKET. ATTACH BRACKETS WITH 1/4" SELF-TAPPING SCREWS OR BY WELDING



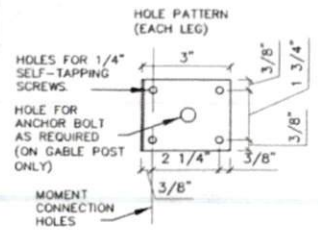
4" T-BRACE

16 GAUGE BRACKET. ATTACH BRACKETS WITH 1/4" SELF-TAPPING SCREWS OR BY WELDING

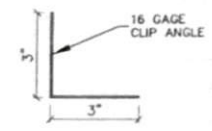


4" L-BRACE

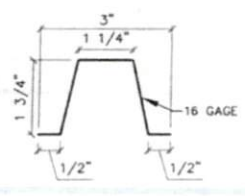
16 GAUGE BRACKET. ATTACH BRACKETS WITH 1/4" SELF-TAPPING SCREWS OR BY WELDING



"G"



NOTE:  
1) TYPICAL CONNECTION = 2 SCREWS (MIN.) PER LEG IN A DIAGONAL PATTERN.  
2) MOMENT CONNECTION = 2 SCREWS (MIN.) IN HOLES NOTED.



"F"  
(STRUCTURAL STRUT)



**BARTLETT**  
ENGINEERING & SURVEYING, PC

1906 NASH STREET NORTH  
WILSON, NORTH CAROLINA 27893  
TEL (252)399-0704 FAX (252)399-0804

|                     |                      |
|---------------------|----------------------|
| DATE: MAY 2012      | CADFILE: 07438DT11-E |
| SCALE: NOT TO SCALE | DRAWN BY: LR         |
| CLIENT: CARSTRU     | SURVEYED BY:         |

NOTES:

1. DESIGN SPECIFICATION: NORTH CAROLINA STATE BUILDING CODE (LATEST EDITION) - 2009 INTERNATIONAL BUILDING CODE WITH NORTH CAROLINA AMENDMENTS.  
DESIGN LOAD:  
 ROOF LIVE LOAD: 20 PSF  
 SNOW LOAD : 20 PSF  
 WIND VELOCITY: 130 MPH  
 FRAME SIZING DETERMINED BY MEMBER STRESS.  
 LL+DL DEFLECTION LIMITED TO L/120.  
 ROOF LL DEFLECTION L/150  
 WALL LL DEFLECTION L/90
2. WHERE A DETAIL IS SHOWN ON STRUCTURAL DRAWINGS FOR ONE CONDITION, IT SHALL APPLY TO ALL SIMILAR OR LIKE CONDITIONS, UNLESS NOTED OR SHOWN OTHERWISE.
3. IF CONTRACTOR FINDS A DIFFERENCE BETWEEN THESE DRAWINGS AND EXISTING ELEVATIONS, OR OTHER CONDITIONS WHICH PROHIBIT EXECUTION OF THE WORK AS DIRECTED ON THESE DRAWINGS, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.
4. ALL ITEMS SHALL BE TIGHTLY ANCHORED OR ATTACHED SQUARE, PLUMB AND TRUE, OR IN OTHER PLANES OR SHAPES AS SHOWN ON THE DRAWINGS. JOINTS SHALL BE TIGHT, EVEN, AND FREE OF OFFSETS. NO FIELD ALTERING OF ANY MEMBERS WILL BE ALLOWED THAT WILL CAUSE THEM NOT TO BE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, WITHOUT WRITTEN APPROVAL OF THE DESIGN ENGINEER.
5. GENERAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ADEQUATE SHORING, BRACING OR SUPPORT TO PREVENT MOVEMENT, SETTLEMENT, OR DAMAGE TO THE STRUCTURE DURING CONSTRUCTION PROCEDURES ASSOCIATED WITH THIS PROJECT.
6. CONCRETE: CONCRETE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 3000 PSI.
7. CONCRETE WORK SHALL COMPLY WITH ACI "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301) AND APPLICABLE PROVISIONS OF ACI 318.
8. ALL FOOTER FOUNDATIONS SHALL BE PLACED ON COMPETENT SOIL.
9. DRILL AUGER PILING HOLES IN UNDISTURBED EARTH.
10. ALL GALVANIZING SHALL BE PERFORMED AFTER FABRICATION, AND IN ACCORDANCE WITH ASTM A123 AND/OR A153.
11. THE MINIMUM YIELD STRENGTH OF THE STEEL USED IN THE LIGHT GAUGE METAL FRAMES SHALL BE 55,000 PSI, FOR RAW OR GALVANIZED TUBES.
12. THE MINIMUM YIELD STRENGTH OF THE STEEL USED FOR THE LIGHT GAUGE METAL DECK SHALL BE 80,000 PSI, DECKING PANELS SHALL COVER THREE SPANS, MINIMUM.
13. THE LIGHT GAUGE METAL FRAMES AND DECK SHALL BE OF THE GAUGE INDICATED ON THE PLAN/DETAILS.
14. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1.
15. ALL WELDS SHALL BE COATED WITH GALVANIZE PRIMER & PAINT AFTER WELDING.



**BARTLETT**  
ENGINEERING & SURVEYING, PC

1906 NASH STREET NORTH  
WILSON, NORTH CAROLINA 27893  
TEL (252)399-0704 FAX (252)399-0804

|                 |                      |
|-----------------|----------------------|
| DATE: JULY 2009 | CADFILE: 074380T11-F |
| SCALE: NO SCALE | DRAWN BY: LR         |
| CLIENT: CARSTRU | SURVEYED BY:         |

CAROLINA STRUCTURAL, LLC  
4241 WILLAMSON ROAD  
WILSON, NC 27893

12'-28" WIDE 4/12 PITCH  
ENCLOSED BUILDING  
130 MPH WIND LOAD

SPECIFICATIONS

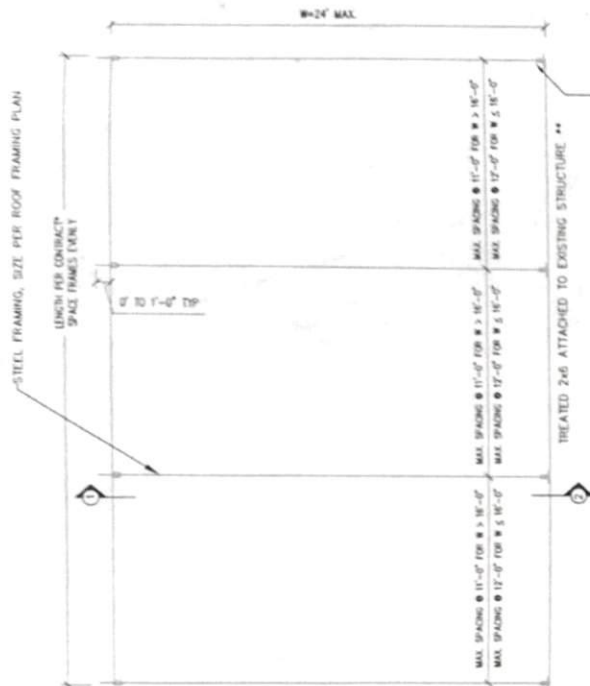
S6

CAROLINA STRUCTURAL, LLC  
 4241 WILLIAMSON ROAD  
 WILSON, NC 27893

LEAN-TO SHELTER  
 100 MPH WIND LOAD

PLAN VIEW

S1

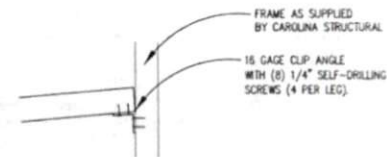


PLAN VIEW  
 NOT TO SCALE

\* MAXIMUM LENGTH IS NOT LIMITED

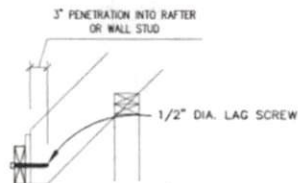
ATTACH TO BAND WITH 16 GAGE CLIP ANGLES. ATTACH CLIP ANGLE TO TUBE STEEL WITH (3) 1/4" DIAMETER SELF-DRILLING SCREWS. ATTACH TO BAND WITH (3) NO. 8 WOOD SCREWS.

\*\* 2X8 TO BE ATTACHED TO A HOME CONSTRUCTED ACCORDING TO THE NCSRC. FOR SITUATIONS NOT COMPLIANT TO THIS ASSUMPTION, EXISTING STRUCTURE MUST BE EVALUATED FOR ADDITIONAL LOADING



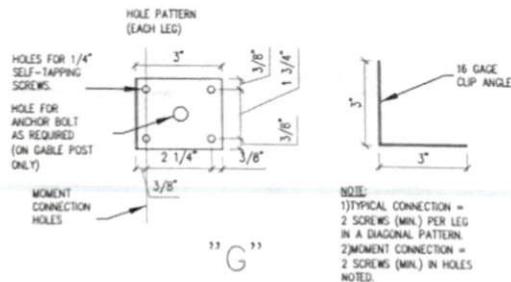
DETAIL FOR ATTACHMENT TO EXISTING STEEL FRAME.

SECTION 2 (OPTION 2)  
 NOT TO SCALE



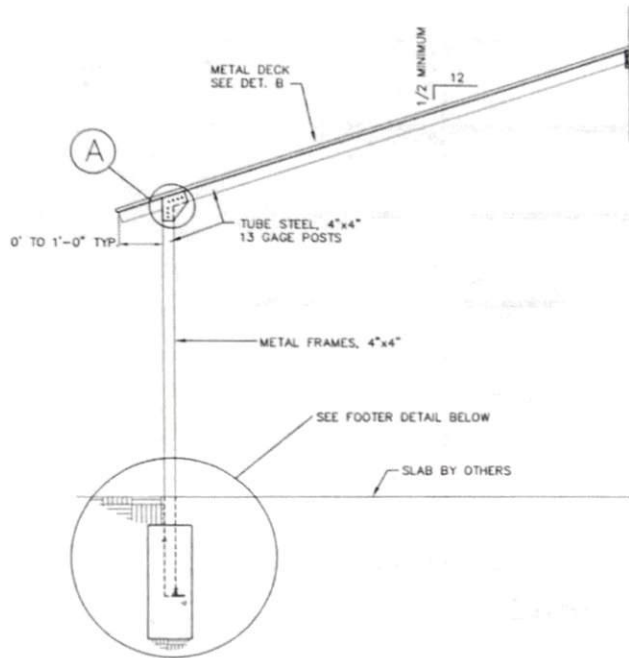
DETAIL FOR ATTACHMENT TO RAFTER (AS SHOWN) ATTACHMENT TO WALL STUD SIMILAR.

SECTION 2 (OPTION 1)  
 NOT TO SCALE



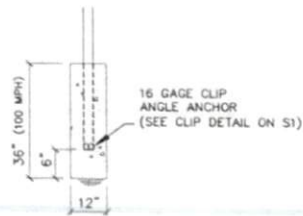
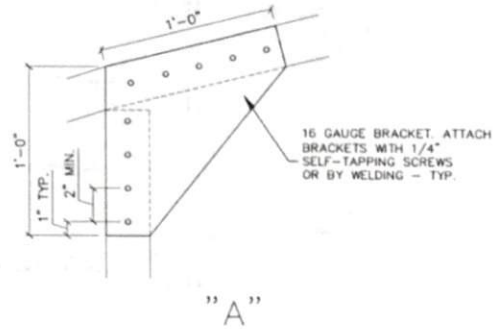
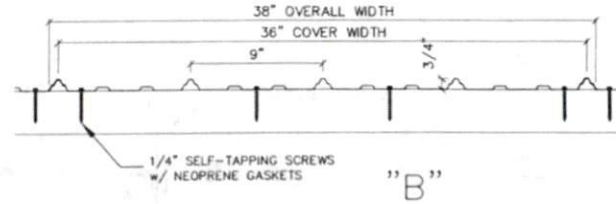
|   |                         |
|---|-------------------------|
| <b>BARTLETT</b><br>ENGINEERING & SURVEYING, PC  |                         |
| 1906 NASH STREET NORTH<br>WILSON, NORTH CAROLINA 27893<br>TEL (252)399-0704 FAX (252)399-0804 |                         |
| DATE: OCT. 2016   | CADFILE: REV074380T14-A |
| SCALE: NO SCALE   | DRAWN BY: LR            |
| CLIENT: CARSTRU   | SURVEYED BY:            |

BRACKETS, TYP BOTH SIDES OF METAL FRAMES



SECTION 1  
NOT TO SCALE

NOTE:  
ROOFING PANELS ARE 29 GAGE,  
OF THE PROFILE SHOWN, BY  
WHEELING CORRUGATED  
COMPANY OR APPROVED EQUAL.



STANDARD FOOTER



|   |                         |
|---|-------------------------|
| <b>BARTLETT</b><br>ENGINEERING & SURVEYING, PC  |                         |
| 1906 NASH STREET NORTH<br>WILSON, NORTH CAROLINA 27893<br>TEL (252)399-0704 FAX (252)399-0804 |                         |
| DATE: OCT. 2016   | CADFILE: REV074380T14-B |
| SCALE: NO SCALE   | DRAWN BY: LR            |
| CLIENT: CARSTRU   | SURVEYED BY:            |

CAROLINA STRUCTURAL, LLC  
4241 WILLIAMSON ROAD  
WILSON, NC 27893

LEAN-TO SHELTER  
100 MPH WIND LOAD

SECTIONS & DETAILS

S2



CAROLINA STRUCTURAL, LLC  
4241 WILLIAMSON ROAD  
WILSON, NC 27893

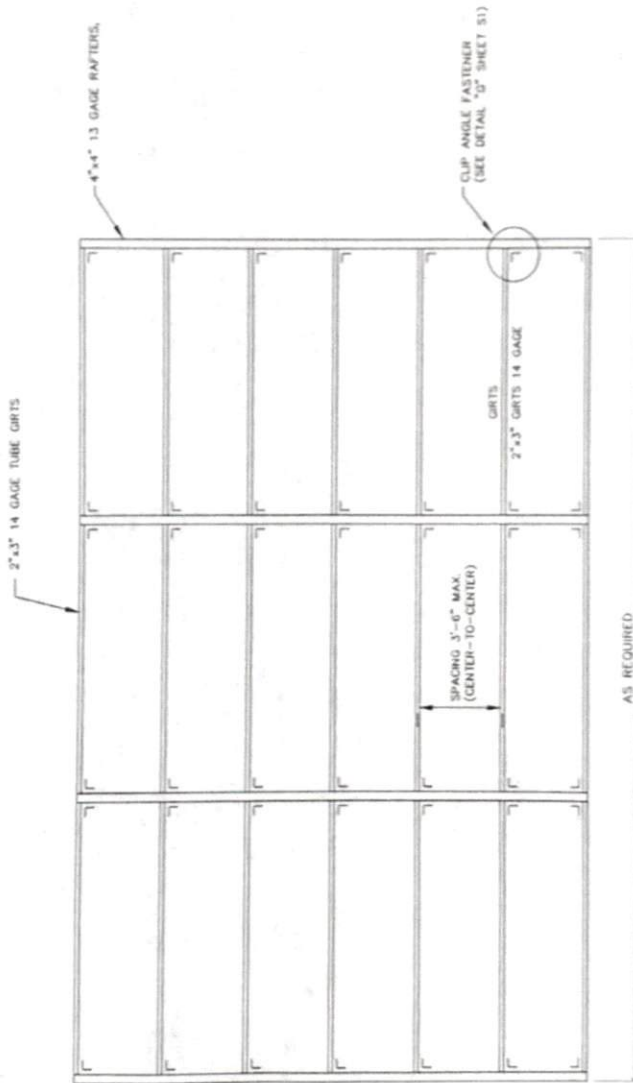
LEAN-TO SHELTER  
100 MPH WIND LOAD

ROOF FRAMING PLAN

53



SECRET NO. 012101  
**BARTLETT**  
ENGINEERING & SURVEYING, PC  
1906 NASH STREET NORTH  
WILSON, NORTH CAROLINA 27893  
TEL (252)399-0704 FAX (252)399-0804  
DATE: OCT. 2016 CADFILE: REV074300114-0  
SCALE: NO SCALE DRAWN BY: LR  
CLIENT: GARSTRO SURVEYED BY:



ROOF FRAMING PLAN VIEW  
NO SCALE

NOTES:

1. DESIGN SPECIFICATION: NORTH CAROLINA STATE BUILDING CODE (LATEST EDITION) AND INTERNATIONAL BUILDING CODE (LATEST EDITION) WITH NORTH CAROLINA AMENDMENTS.  
DESIGN LOAD:  
 ROOF LIVE LOAD: 20 PSF  
 SNOW LOAD : 15 PSF  
 WIND VELOCITY: 100 MPH (EXPOSURE D)  
 FRAME SIZING DETERMINED BY MEMBER STRESS.  
 LL+DL DEFLECTION LIMITED TO L/120.  
 ROOF LL DEFLECTION L/150  
 WALL LL DEFLECTION L/90
2. WHERE A DETAIL IS SHOWN ON STRUCTURAL DRAWINGS FOR ONE CONDITION, IT SHALL APPLY TO ALL SIMILAR OR LIKE CONDITIONS, UNLESS NOTED OR SHOWN OTHERWISE.
3. IF CONTRACTOR FINDS A DIFFERENCE BETWEEN THESE DRAWINGS AND EXISTING ELEVATIONS, OR OTHER CONDITIONS WHICH PROHIBIT EXECUTION OF THE WORK AS DIRECTED ON THESE DRAWINGS, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.
4. ALL ITEMS SHALL BE TIGHTLY ANCHORED OR ATTACHED SQUARE, PLUMB AND TRUE, OR IN OTHER PLANES OR SHAPES AS SHOWN ON THE DRAWINGS. JOINTS SHALL BE TIGHT, EVEN, AND FREE OF OFFSETS. NO FIELD ALTERING OF ANY MEMBERS WILL BE ALLOWED THAT WILL CAUSE THEM NOT TO BE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, WITHOUT WRITTEN APPROVAL OF THE DESIGN ENGINEER.
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8. ALL FOOTER FOUNDATIONS SHALL BE PLACED ON COMPETENT SOIL.
9. DRILL AUGER PILING HOLES IN UNDISTURBED EARTH.
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12. THE MINIMUM YIELD STRENGTH OF THE STEEL USED FOR THE LIGHT GAUGE METAL DECK SHALL BE 80,000 PSI, DECKING PANELS SHALL COVER THREE SPANS, MINIMUM.
13. THE LIGHT GAUGE METAL FRAMES AND DECK SHALL BE OF THE GAUGE INDICATED ON THE PLAN/DETAILS.
14. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1.
15. ALL WELDS SHALL BE COATED WITH GALVANIZE PRIMER & PAINT AFTER WELDING.



|   |                         |                    |
|---|-------------------------|--------------------|
| <b>BARTLETT</b>   |                         | LICENSE NO. C-1591 |
| ENGINEERING & SURVEYING, PC   |                         |                    |
| 1906 NASH STREET NORTH<br>WILSON, NORTH CAROLINA 27893<br>TEL (252)399-0704 FAX (252)399-0804 |                         |                    |
| DATE: OCT. 2016   | CADFILE: REV074380T14-C |                    |
| SCALE: NO SCALE   | DRAWN BY: LR            |                    |
| CLIENT: CARSTRU   | SURVEYED BY:            |                    |

CAROLINA STRUCTURAL, LLC  
4241 WILLIAMSON ROAD  
WILSON, NC 27893

LEAN-TO SHELTER  
100 MPH WIND LOAD

SPECIFICATIONS

S4