

GENERAL NOTES

1. SEE ALL CODES, REGULATIONS & ORDINANCES APPLICABLE TO THIS PROJECT.
2. ALL STRUCTURES ARE TO BE CONSTRUCTED TO RESIST ALL APPLICABLE LOADS INCLUDING BUT NOT LIMITED TO: DEAD, LIVE, WIND, SEISMIC, AND SOIL LATERAL LOADS. ALL STRUCTURES SHALL BE DESIGNED TO RESIST ALL APPLICABLE LOADS AND BE PROTECTED AGAINST COLLAPSE UNDER ALL APPLICABLE LOADS. ALL STRUCTURES SHALL BE DESIGNED TO RESIST ALL APPLICABLE LOADS AND BE PROTECTED AGAINST COLLAPSE UNDER ALL APPLICABLE LOADS.
3. ALL STRUCTURES SHALL BE DESIGNED TO RESIST ALL APPLICABLE LOADS AND BE PROTECTED AGAINST COLLAPSE UNDER ALL APPLICABLE LOADS.
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9. ALL STRUCTURES SHALL BE DESIGNED TO RESIST ALL APPLICABLE LOADS AND BE PROTECTED AGAINST COLLAPSE UNDER ALL APPLICABLE LOADS.
10. ALL STRUCTURES SHALL BE DESIGNED TO RESIST ALL APPLICABLE LOADS AND BE PROTECTED AGAINST COLLAPSE UNDER ALL APPLICABLE LOADS.

COMMENT AND CLADDING LOADS FOR A BUILDING WITH A MEAN ROOF HEIGHT OF 30 FEET LOCATED IN EXPOSURE B (ASD) (PSF)

| ZONE | EFFECTIVE WIND AREA & HEIGHT | ON WINDWARD SIDE OF WIND SPEED, VIVE T (PSF) | | | | | | | | | | | | |
|------|------------------------------|--|-------|-------|------|------|------|------|------|------|------|------|------|------|
| | | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | | | |
| 1 | 50.00 | 13.00 | 11.00 | 10.00 | 9.00 | 8.00 | 7.00 | 6.00 | 5.00 | 4.00 | 3.00 | 2.00 | 1.00 | 0.00 |
| 2 | 20.00 | 13.00 | 11.00 | 10.00 | 9.00 | 8.00 | 7.00 | 6.00 | 5.00 | 4.00 | 3.00 | 2.00 | 1.00 | 0.00 |
| 3 | 10.00 | 13.00 | 11.00 | 10.00 | 9.00 | 8.00 | 7.00 | 6.00 | 5.00 | 4.00 | 3.00 | 2.00 | 1.00 | 0.00 |
| 4 | 5.00 | 13.00 | 11.00 | 10.00 | 9.00 | 8.00 | 7.00 | 6.00 | 5.00 | 4.00 | 3.00 | 2.00 | 1.00 | 0.00 |
| 5 | 2.50 | 13.00 | 11.00 | 10.00 | 9.00 | 8.00 | 7.00 | 6.00 | 5.00 | 4.00 | 3.00 | 2.00 | 1.00 | 0.00 |
| 6 | 1.25 | 13.00 | 11.00 | 10.00 | 9.00 | 8.00 | 7.00 | 6.00 | 5.00 | 4.00 | 3.00 | 2.00 | 1.00 | 0.00 |
| 7 | 0.625 | 13.00 | 11.00 | 10.00 | 9.00 | 8.00 | 7.00 | 6.00 | 5.00 | 4.00 | 3.00 | 2.00 | 1.00 | 0.00 |
| 8 | 0.3125 | 13.00 | 11.00 | 10.00 | 9.00 | 8.00 | 7.00 | 6.00 | 5.00 | 4.00 | 3.00 | 2.00 | 1.00 | 0.00 |
| 9 | 0.15625 | 13.00 | 11.00 | 10.00 | 9.00 | 8.00 | 7.00 | 6.00 | 5.00 | 4.00 | 3.00 | 2.00 | 1.00 | 0.00 |
| 10 | 0.078125 | 13.00 | 11.00 | 10.00 | 9.00 | 8.00 | 7.00 | 6.00 | 5.00 | 4.00 | 3.00 | 2.00 | 1.00 | 0.00 |

NOTES:
1. FOR EXPOSURE CATEGORY C, MULTIPLY THE ABOVE VALUES BY 1.21 UP TO A MEAN ROOF HEIGHT OF 15 FT AND 1.29 UP TO A MEAN ROOF HEIGHT OF 20 FT.



CONCRETE NOTE
ALL OPEN AREAS OF CONCRETE OUTSIDE OF THE PROPOSED STRUCTURE SHALL BE DESIGNED TO SLOPE AWAY FROM THE STRUCTURE

| PRODUCT CATEGORY | SUB CATEGORY | MANUFACTURER | APPROVAL No. & DATE |
|-----------------------|-----------------|---|---------------------------|
| STRUCTURAL COMPONENTS | ROOF DECK | CAPITAL METAL SUPPLY, INC. 29 0A CAPITAL RIB ROOF PANEL | FL20147 1-21 12/12/17 |
| STRUCTURAL COMPONENTS | STRUCTURAL WALL | CAPITAL METAL SUPPLY, INC. 29 0A CAPITAL RIB WALL PANEL | FL20148 1-R1 12/12/17 |
| EXTERIOR DOORS | ROLL-UP | JANUS INTERNATIONAL GROUP LLC SERIES 3652 | FL14425 1-R4 06/16/18 |
| EXTERIOR DOORS | SWINGING | ELDER DOOR AND METAL COMPANY SERIES 457 | FL17566 5-R1 01/28/18 |
| EXTERIOR DOORS | SWINGING | ELDO-WIND C DESIGN PRO | FL13541 3-R16 12/17/18 |
| WINDOWS | SINGLE HUNG | PELLA CORPORATION 200 SERIES PREMIUM DOUBLE HUNG WINDOW HIGH PERFORMANCE | FL14871 1-R7 09/14/18 |
| WINDOWS | SINGLE HUNG | PELLA CORPORATION 350 SERIES PREMIUM DOUBLE HUNG WINDOW 2-WIDE OR 3-WIDE STANDARD PERFORMANCE | FL14671 7-R7 09/14/18 |

CONTRACTOR: VIKING STEEL STRUCTURES

PROJECT ADDRESS: STEEL CARPORT

DESIGNER: GUNDERSON ENGINEERING LLC
4161 TAMiami TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
www.gundersonengineering.com

PROJECT NO. 2020625

DATE: 08/10/2020

REVISION 1: DATE 08/10/2020

REVISION 2: DATE

SCALE: 1/8" = 1'-0"

PAGE 1 OF 1

WINDOW LIFT APPLICABLE
 DESIGN PER SQUARE
 LOW = (20.35 PSF - 35.21 PSF)
 HIGH = (20.35 PSF - 48.55 PSF)



TYPICAL SIDE ELEVATION-HORIZONTAL ROOF
 SCALE: NTS

ROLL UP DOOR
 (AS APPLICABLE)
 DESIGN PER SQUARE
 LOW = (22.29 PSF - 34.69 PSF)
 HIGH = (22.29 PSF - 37.15 PSF)

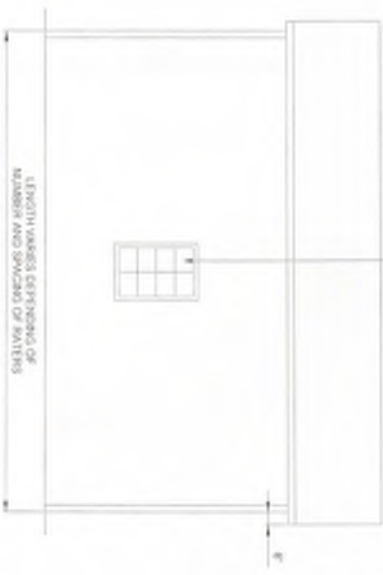


TYPICAL END ELEVATION-HORIZONTAL ROOF
 SCALE: NTS

SWINGING DOOR
 (AS APPLICABLE)
 DESIGN PER SQUARE
 LOW = (25.17 PSF - 27.35 PSF)
 HIGH = (25.17 PSF - 41.32 PSF)

BOX EAVE FRAME RAFTER STRUCTURE

WINDOW LIFT APPLICABLE
 DESIGN PER SQUARE
 LOW = (20.35 PSF - 35.21 PSF)
 HIGH = (20.35 PSF - 48.55 PSF)



TYPICAL SIDE ELEVATION
 SCALE: NTS

ROLL UP DOOR
 (AS APPLICABLE)
 DESIGN PER SQUARE
 LOW = (22.29 PSF - 34.69 PSF)
 HIGH = (22.29 PSF - 37.15 PSF)



TYPICAL END ELEVATION
 SCALE: NTS

SWINGING DOOR
 (AS APPLICABLE)
 DESIGN PER SQUARE
 LOW = (25.17 PSF - 27.35 PSF)
 HIGH = (25.17 PSF - 41.32 PSF)

BOW FRAME RAFTER STRUCTURE

| | | | |
|-----------------|------|-------------------------|---|
| CONTRACTOR | | VIKING STEEL STRUCTURES | |
| DESIGN DATE | | 08/10/2020 | |
| REVISION 1 | DATE | SCALE | |
| REVISION 2 | DATE | SCALE | |
| | | SCALE | 2 |
| PROJECT ADDRESS | | STEEL CARPORT | |



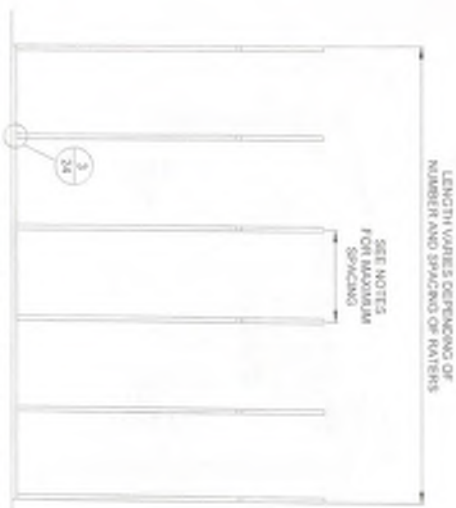
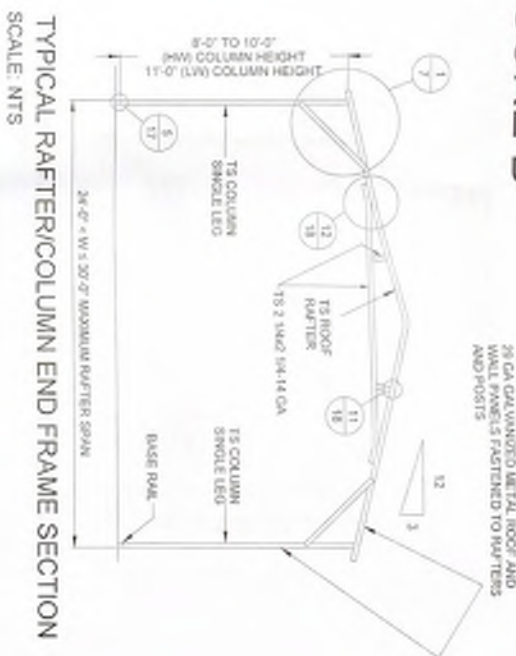
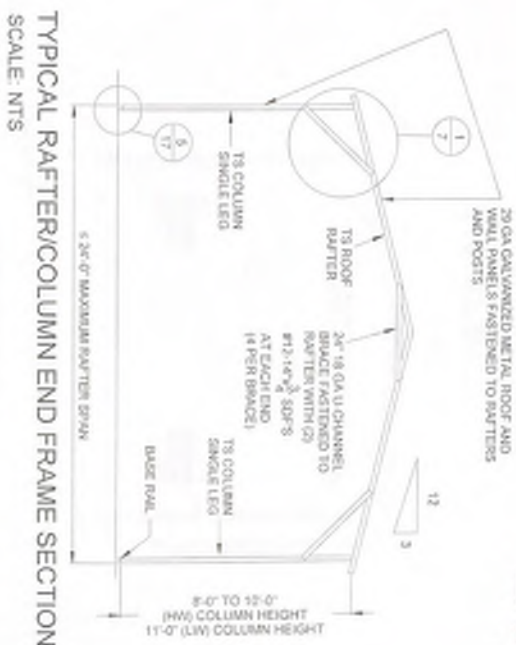
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EXPOSURE B



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

| | | | |
|-----------------|-------------------------|-----------------|---------------|
| CONTRACTOR | VIKING STEEL STRUCTURES | | |
| DESIGN DATE | 08/10/2020 | PROJECT ADDRESS | STEEL CARPORT |
| REVISION 1 DATE | | | |
| REVISION 2 DATE | | | |
| SCALE | NTS | | |
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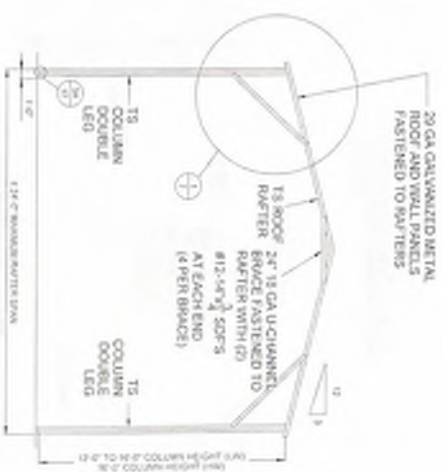


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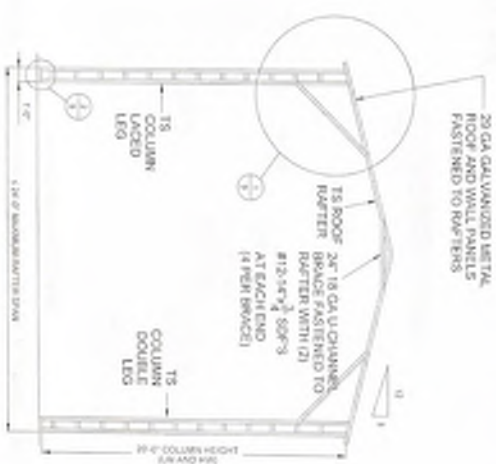
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DATE 08/10/2020

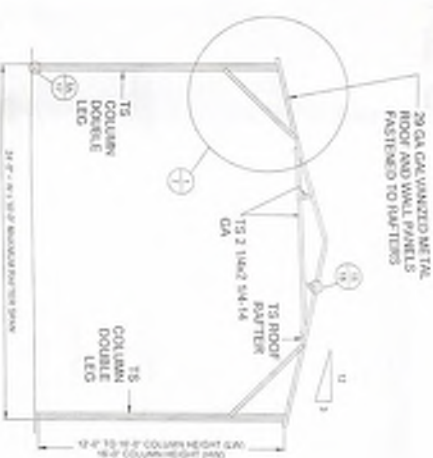
EXPOSURE B



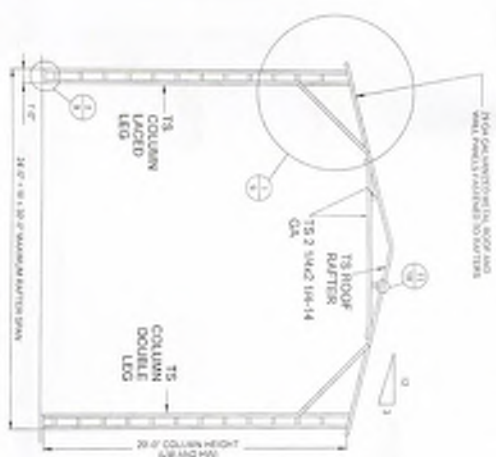
TYPICAL RAFTERS/COLUMN END FRAME SECTION
SCALE N15



TYPICAL RAFTERS/COLUMN END FRAME SECTION
SCALE N15



TYPICAL RAFTERS/COLUMN END FRAME SECTION
SCALE N15



TYPICAL RAFTERS/COLUMN END FRAME SECTION
SCALE N15

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| CONTRACTOR | | VIKING STEEL STRUCTURES | |
| DESIGN DATE | | 08/10/2020 | |
| REVISION 1 | DATE | REVISION 2 | DATE |
| SCALE | N15 | SCALE | N15 |
| PROJECT ADDRESS | | STEEL CARPORT | |
| PROJECT NO. | | 2020625 | |
| PAGE | | 4 | |

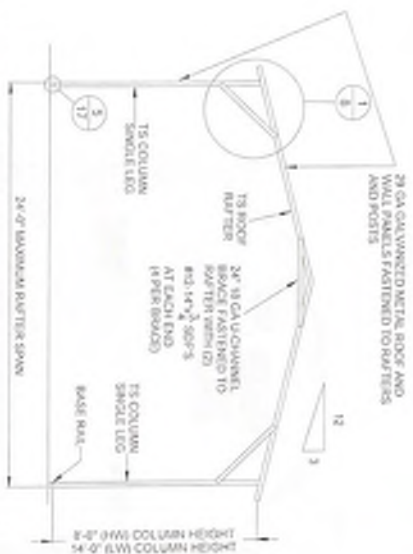


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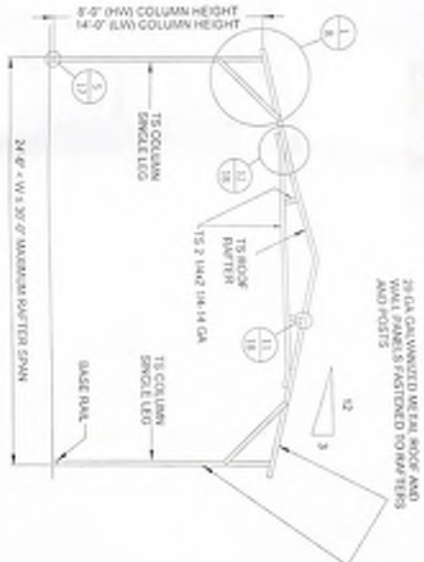
PROJECT NO. 2020625

DATE 08/10/2020

EXPOSURE C



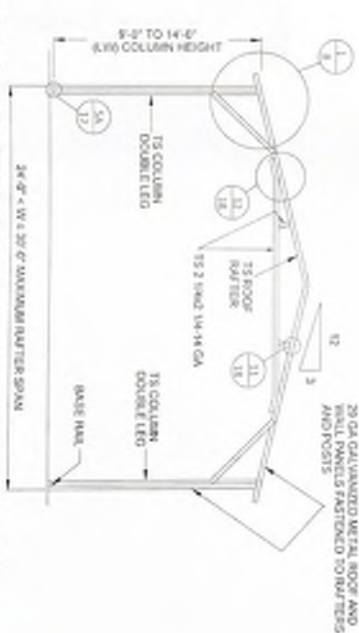
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SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS

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| CONTRACTOR | | VIKING STEEL STRUCTURES | |
| PROJECT ADDRESS | | STEEL CARPORT | |
| DESIGN DATE | 08/10/2020 | | |
| REVISION 1 DATE | 08/10/2020 | | |
| REVISION 2 DATE | | | |
| SCALE | 5/8\"/> | | |

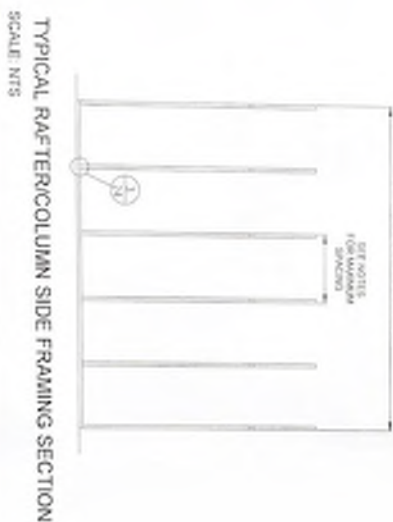
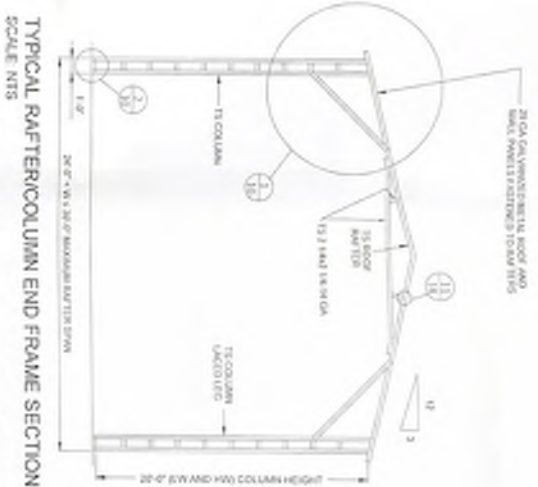
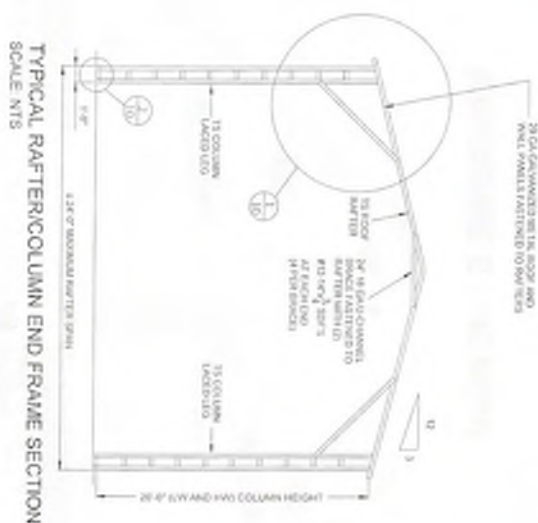


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DATE 08/10/2020

EXPOSURE C



| | | | |
|-----------------|------------|-------------------------|------------|
| CONTRACTOR | | VIKING STEEL STRUCTURES | |
| PROJECT ADDRESS | | STEEL CARPORT | |
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| REVISION 1 | | DATE | |
| REVISION 2 | | DATE | |
| SCALE | NTS | PAGE | 6 |
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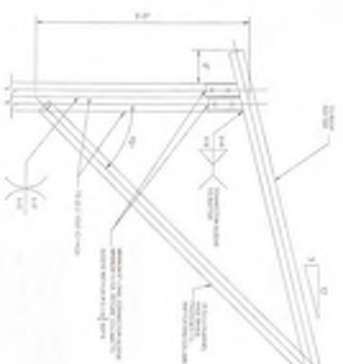
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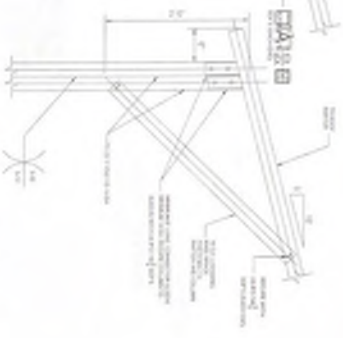
DATE 08/10/2020

EXPOSURE B (140 MPH)

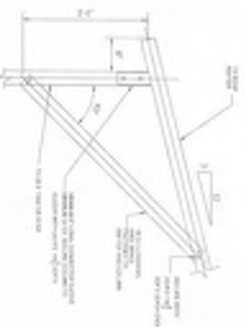
EXPOSURE B (170 MPH)



1A
BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 12'-0" < TO 51'-0"
SCALE NTS



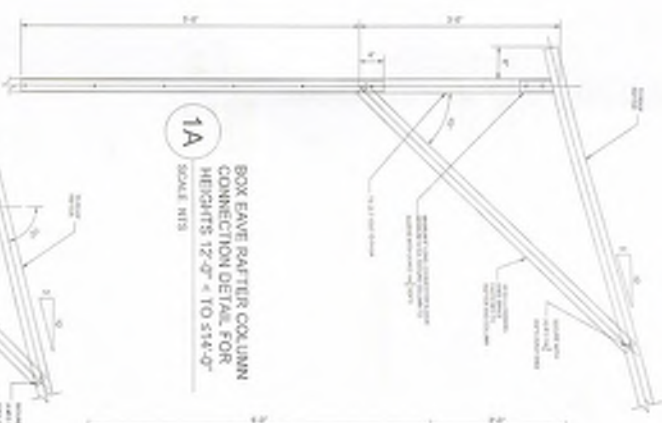
1B
BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 11'-0" < TO 51'-0"
SCALE NTS



1C
BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 51'-0"
SCALE NTS



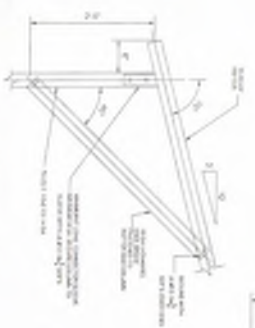
BRACE SECTION
SCALE NTS



1A
BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 12'-0" < TO 51'-0"
SCALE NTS



1B
BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 10'-0" < TO 51'-0"
SCALE NTS



1C
BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 51'-0"
SCALE NTS



BRACE SECTION
SCALE NTS

| | | | |
|-----------------|------|-------------------------|------|
| CONTRACTOR | | VIKING STEEL STRUCTURES | |
| DESIGN DATE | | 08/10/2010 | |
| REVISION 1 | DATE | REVISION 2 | DATE |
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| PROJECT ADDRESS | | STEEL CARPORT | |
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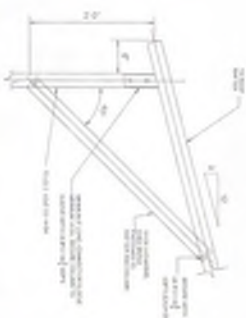
DATE 08/10/2010

EXPOSURE C (140 MPH)

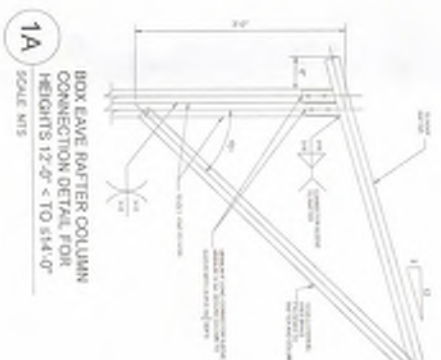
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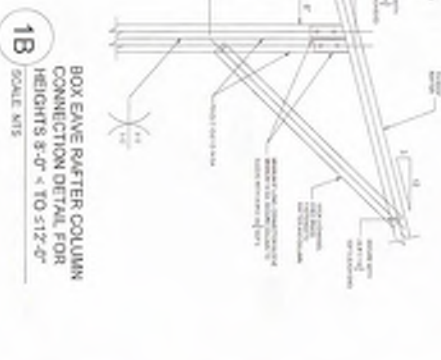
1
BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 10'-0" TO 512'-0"
SCALE NTS



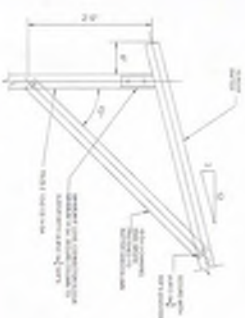
1B
BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 5'-0" TO 10'-0"
SCALE NTS



1A
BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 12'-0" TO 514'-0"
SCALE NTS



1B
BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 3'-0" TO 512'-0"
SCALE NTS



1C
BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 5'-0" TO 8'-0"
SCALE NTS



| | | | |
|-----------------|------------|-------------------------|-----|
| CONTRACTOR | | VIKING STEEL STRUCTURES | |
| PROJECT ADDRESS | | STEEL CARPORT | |
| DESIGN DATE | 08/19/2020 | SCALE | NTS |
| REVISION 1 DATE | | SCALE | NTS |
| REVISION 2 DATE | | SCALE | NTS |
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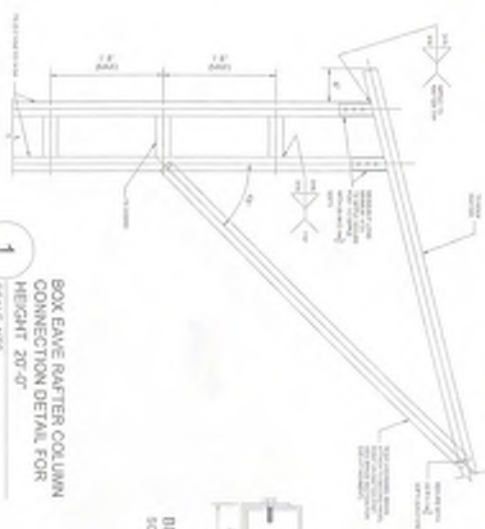
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EXPOSURE B (140 MPH)

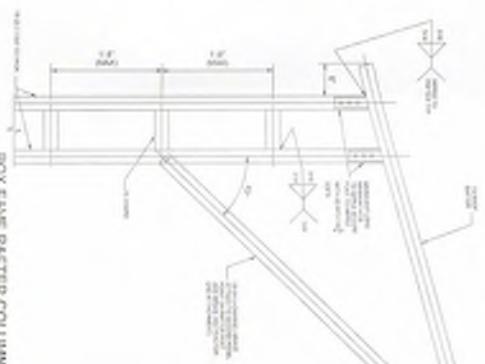
EXPOSURE B (170 MPH)



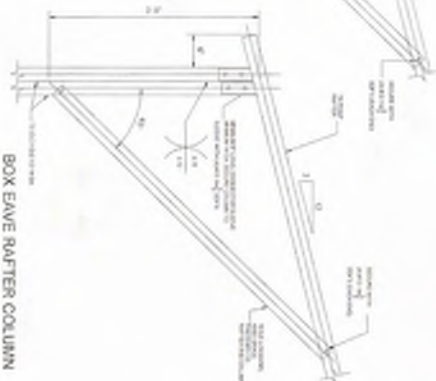
1
BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHT 20'-0"
SCALE NTS



2
POSTBASE RAIL CONNECTION DETAIL
SCALE NTS



1A
BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHT 20'-0"
SCALE NTS



1B
BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 16'-0"
SCALE NTS



2
POSTBASE RAIL CONNECTION DETAIL
SCALE NTS



| | | | |
|-----------------|------|-------------------------|--|
| CONTRACTOR | | VIKING STEEL STRUCTURES | |
| DESIGN DATE | | 08/10/2020 | |
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| REVISION 2 | DATE | 9 | |
| SCALE | NTS | | |
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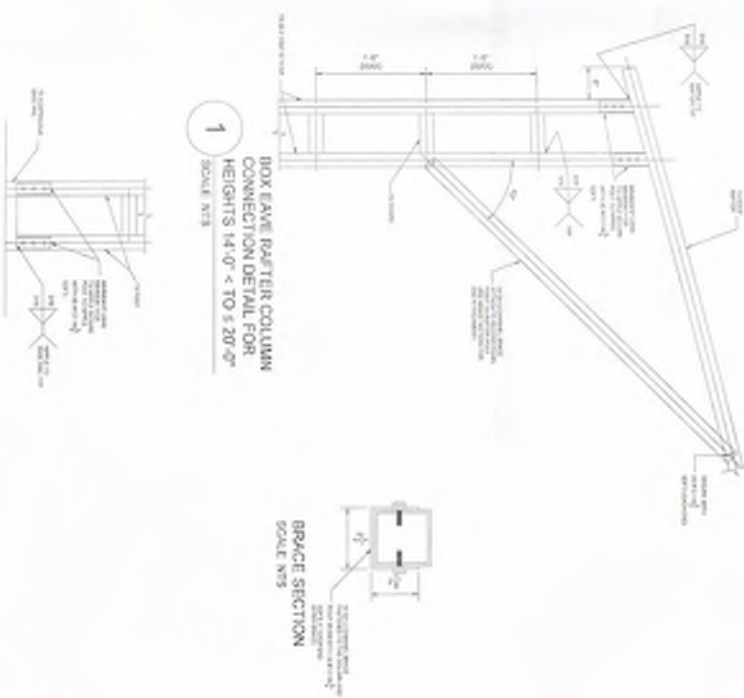
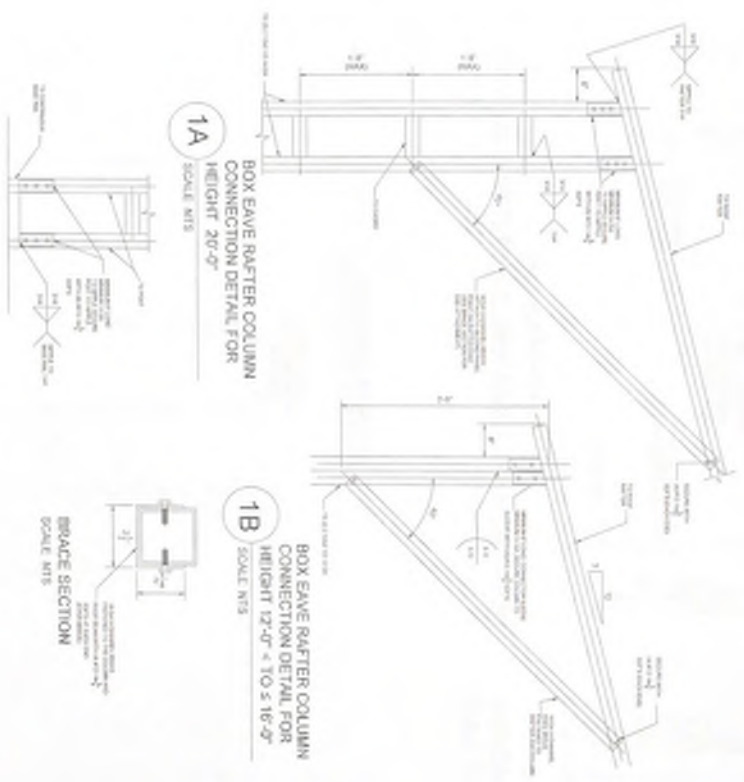
PROJECT NO. 2020625

DATE 08/10/2020

EXPOSURE B

EXPOSURE C (140 MPH)

EXPOSURE C (170 MPH)



2 POSTBASE RAIL CONNECTION DETAIL
SCALE NTS

2 POSTBASE RAIL CONNECTION DETAIL
SCALE NTS

| | | | |
|-----------------|------------|-------------------------|----|
| CONTRACTOR | | VIKING STEEL STRUCTURES | |
| PROJECT ADDRESS | | STEEL CARPORT | |
| DESIGN DATE | 08/10/2020 | DATE | |
| REVISION 1 | | DATE | |
| REVISION 2 | | DATE | |
| SCALE | NTS | MADE | 10 |
| | | OF | 10 |



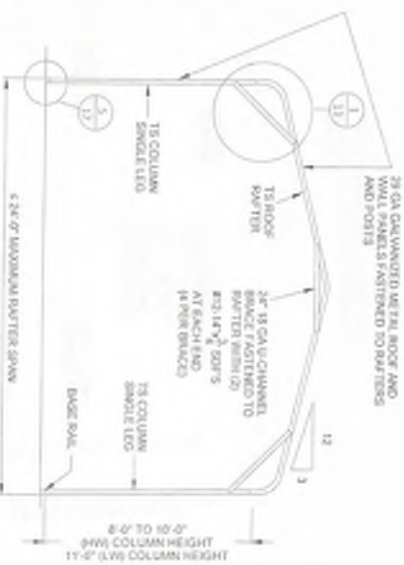
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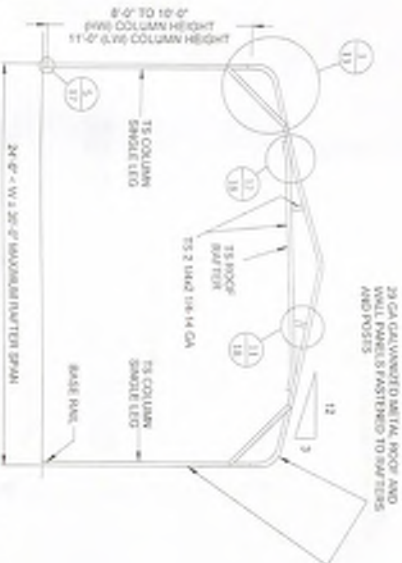
DATE 08/10/2020

EXPOSURE B

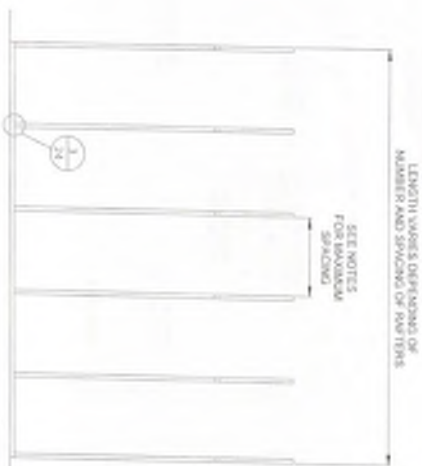
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS



| | |
|-------------------------|------------|
| CONTRACTOR | |
| VIKING STEEL STRUCTURES | |
| PROJECT ADDRESS | |
| STEEL CARPORT | |
| DESIGN DATE | 08/10/2018 |
| REVISION 1 DATE | |
| REVISION 2 DATE | |
| SCALE | NTS |
| PAGE | 11 |
| OF | 11 |

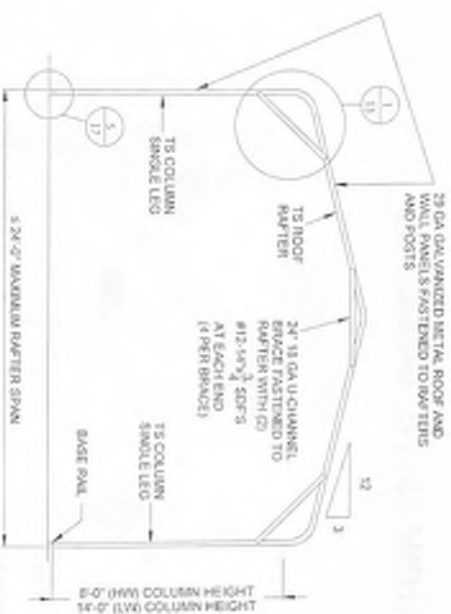


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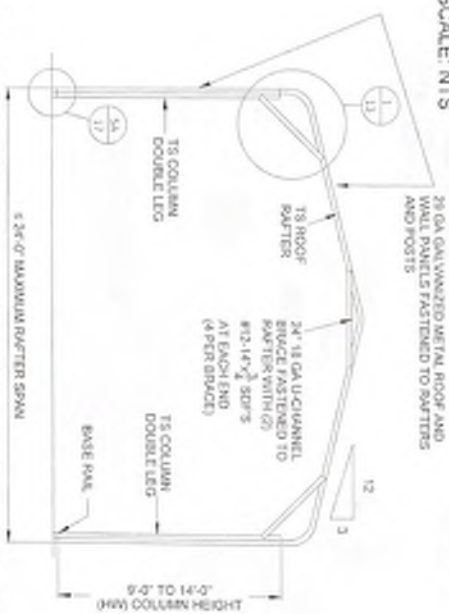
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DATE 08/10/2018

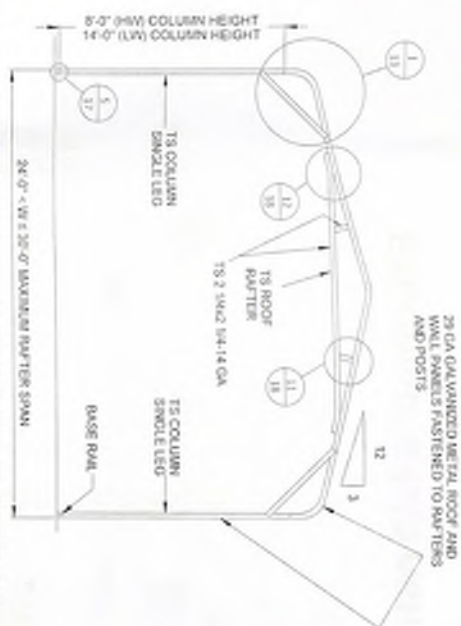
EXPOSURE C



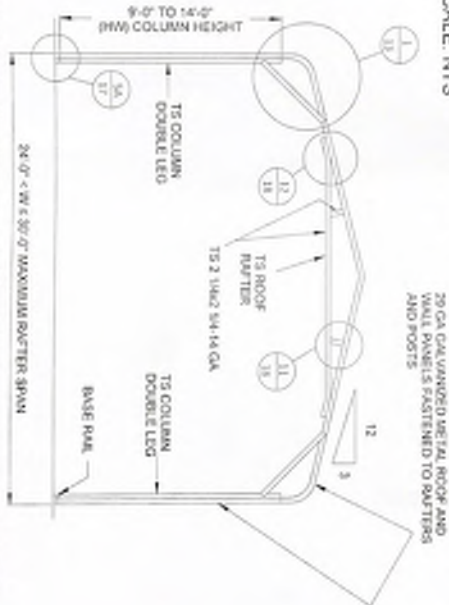
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS

| | | | |
|-----------------|------|-------------------------|--|
| CONTRACTOR | | VIKING STEEL STRUCTURES | |
| DESIGN DATE | | 04/13/2020 | |
| REVISION 1 | DATE | PK/GE | |
| REVISION 2 | DATE | 12/01/20 | |
| SCALE | NTS | | |
| PROJECT ADDRESS | | STEEL CARPORT | |

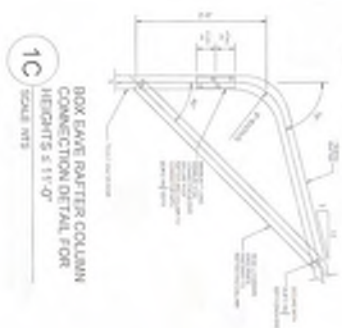
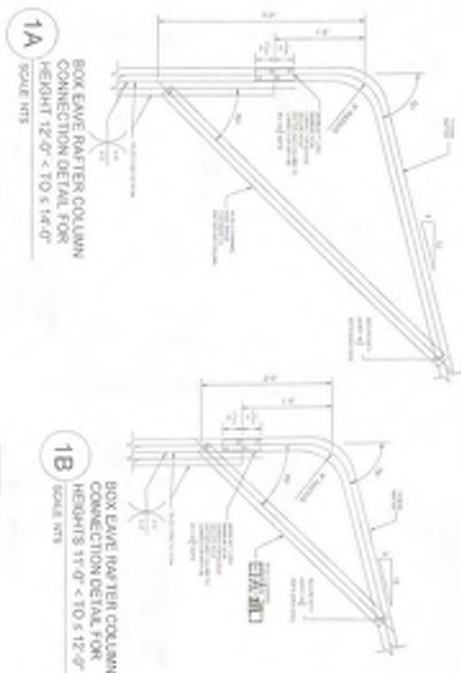


PROJECT NO. 2020625

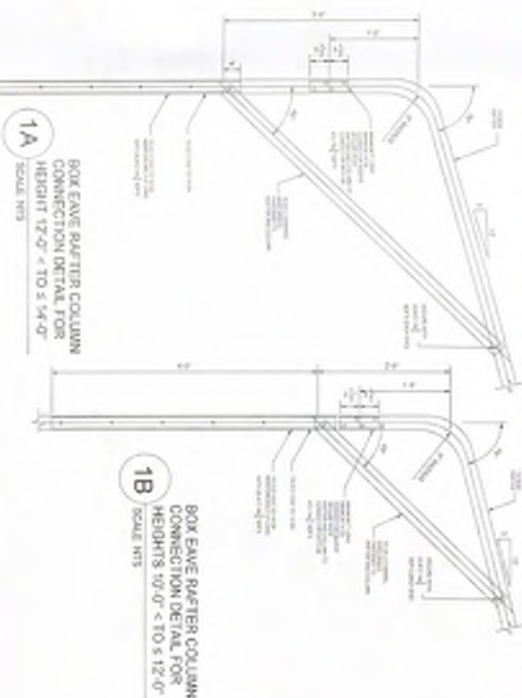
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PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
www.gundersonengineering.com

DATE 08/10/2020

EXPOSURE B (140 MPH)



EXPOSURE B (170 MPH)



| | | | |
|-----------------|------------|-------------------------|------------|
| CONTRACTOR | | VIKING STEEL STRUCTURES | |
| PROJECT ADDRESS | | STEEL CARPORT | |
| DESIGN DATE | 08/10/2020 | DATE | 08/10/2020 |
| REVISION 1 | | DATE | |
| REVISION 2 | | DATE | |
| SCALE | NTS | SCALE | NTS |
| | | 13 | OF |

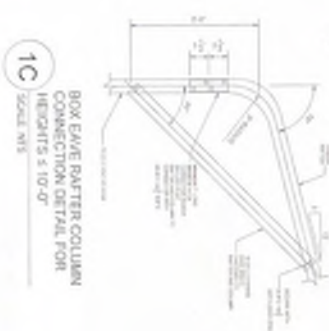
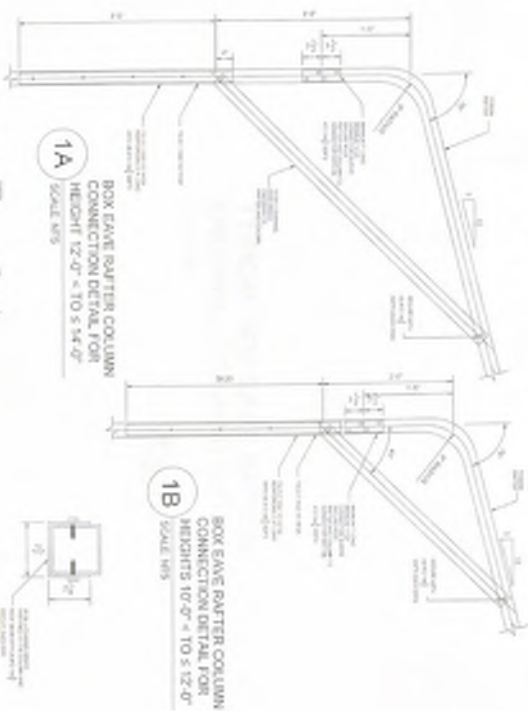


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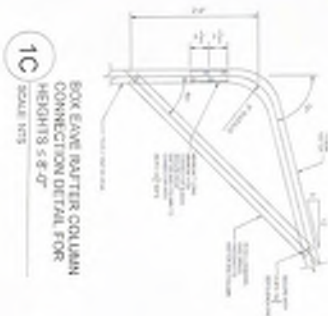
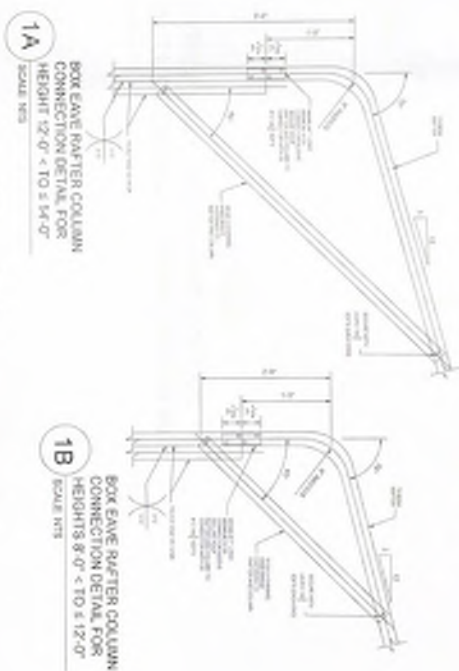
PROJECT NO. 2020625

DATE 08/10/2020

EXPOSURE C (140 MPH)



EXPOSURE C (170 MPH)



| | | | |
|-----------------|------------|-------------------------|------|
| CONTRACTOR | | VIKING STEEL STRUCTURES | |
| PROJECT ADDRESS | | STEEL CARPORT | |
| DESIGN DATE | 08/19/2020 | SCALE | 1/4" |
| REVISION 1 | DATE | SCALE | |
| REVISION 2 | DATE | SCALE | |

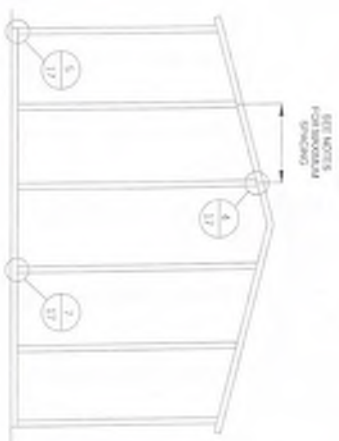


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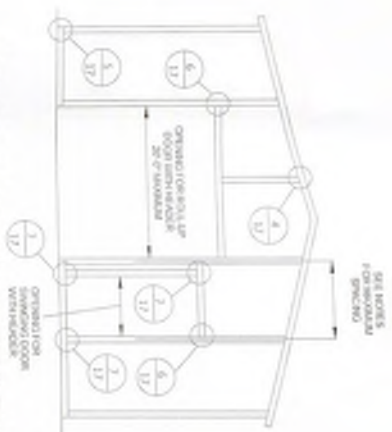
PROJECT NO. 2020625

DATE: 08/19/2020

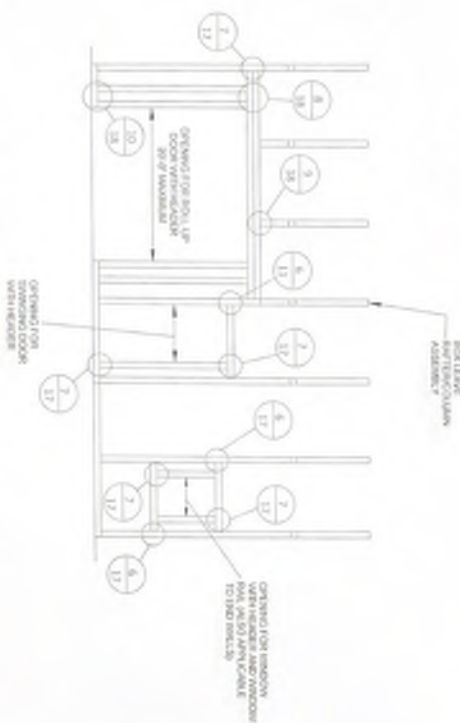
BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION
SCALE: NTS



TYPICAL BOX EAVE RAFTER END
WALL OPENINGS FRAMING SECTION
SCALE: NTS



TYPICAL BOX EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION
SCALE: NTS

| | | | |
|-----------------|------|-------------------------|----|
| CONTRACTOR | | VIKING STEEL STRUCTURES | |
| DESIGN DATE | | 08/10/2020 | |
| REVISION 1 | DATE | ANZE | |
| REVISION 2 | DATE | | |
| SCALE | NTS | 15 | 0' |
| PROJECT ADDRESS | | STEEL CARPORT | |

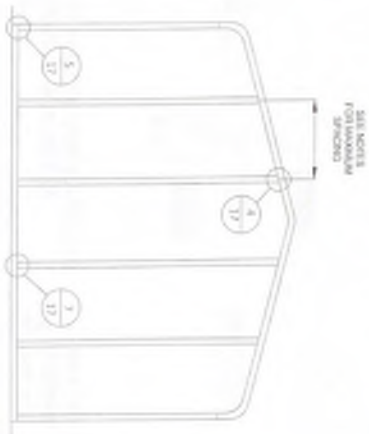


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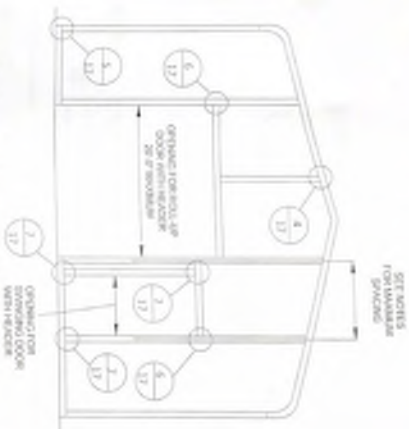
PROJECT NO. 2020525

DATE 08/10/2020

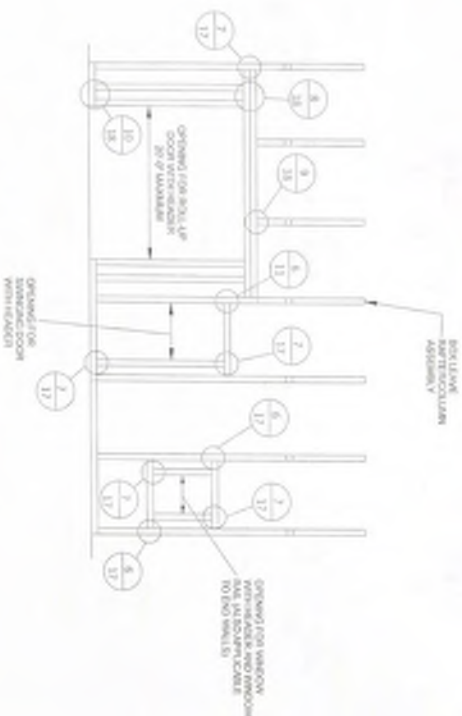
BOX RAFTER END WALL AND SIDE WALL OPENINGS



TYPICAL BOX RAFTER
END WALL FRAMING SECTION
SCALE: NTS



TYPICAL BOX RAFTER END
WALL OPENINGS FRAMING SECTION
SCALE: NTS



TYPICAL BOX RAFTER SIDE
WALL OPENINGS FRAMING SECTION
SCALE: NTS

| | |
|-----------------|-------------------------|
| CONTRACTOR | VIKING STEEL STRUCTURES |
| PROJECT ADDRESS | STEEL CARPORT |
| DESIGN DATE | 08/10/2020 |
| REVISION 1 DATE | |
| REVISION 2 DATE | |
| SCALE | NTS |
| PAGE | 16 |
| OF | 20 |

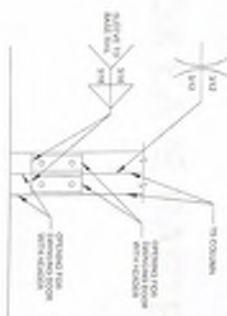
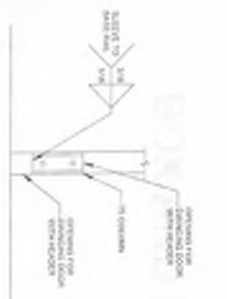


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PROJECT NO. 2020625

DATE 08/10/2020

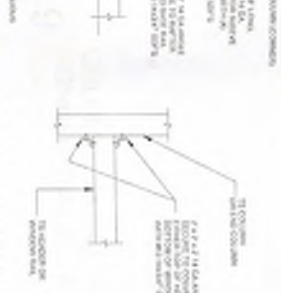
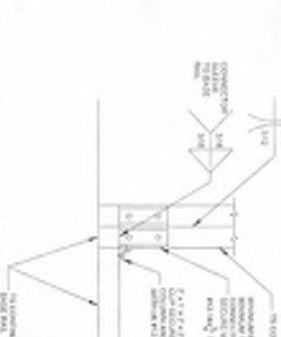
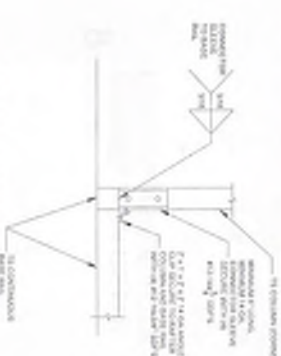
BOX AND BOX EAVE RAFTER WALL OPENING DETAILS



2 RAFTER COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS

3 RAFTER COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS

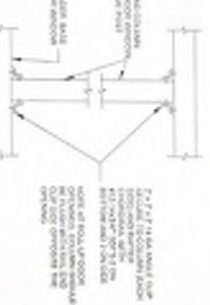
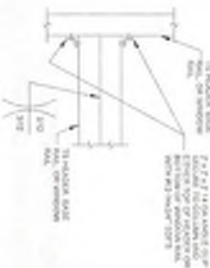
4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS



5 END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS

5A END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS

6 COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL
SCALE: NTS



6A COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL
SCALE: NTS

7 COLUMN TO HEADER BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL
SCALE: NTS

| | | | |
|-----------------|------|-------------------------|------------|
| CONTRACTOR | | VIKING STEEL STRUCTURES | |
| DESIGN DATE | | 08/10/2019 | |
| REVISION 1 | DATE | MADE | |
| REVISION 2 | DATE | 17 | 08/10/2019 |
| SCALE | NTS | | |
| PROJECT ADDRESS | | STEEL CARPORT | |



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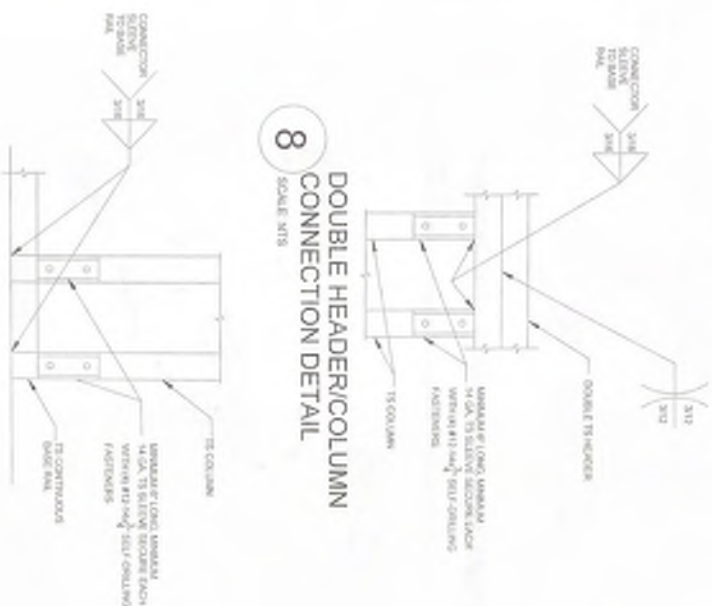
PROJECT NO. 2020625

DATE: 08/10/2019

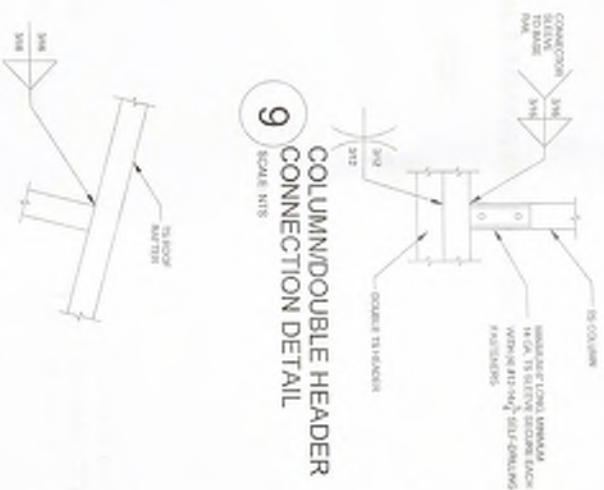
BOX EAVE RAFTER LEAN CONNECTIONS

BOX AND BOX EAVE RAFTER WALL OPENING DETAILS

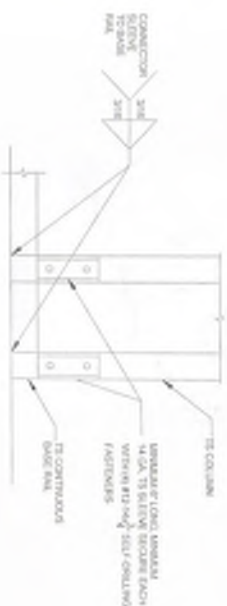
8
DOUBLE HEADER/COLUMN
CONNECTION DETAIL
SCALE NTS



9
COLUMN/DOUBLE HEADER
CONNECTION DETAIL
SCALE NTS



10
COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE NTS



11
RAFTER TO CHORD
CONNECTION DETAIL
SCALE NTS



12
COLLAR TIE
CONNECTION DETAIL
SCALE NTS



| | | | |
|-----------------|------|-------------------------|-----|
| CONTRACTOR | | VIKING STEEL STRUCTURES | |
| DESIGN DATE | | 08/10/2018 | |
| REVISION 1 | DATE | PAGE | 18 |
| REVISION 2 | DATE | SCALE | NTS |
| PROJECT ADDRESS | | STEEL CARPORT | |

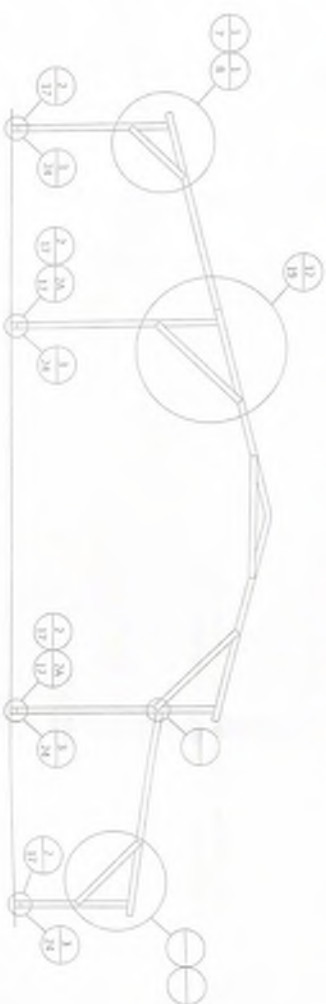


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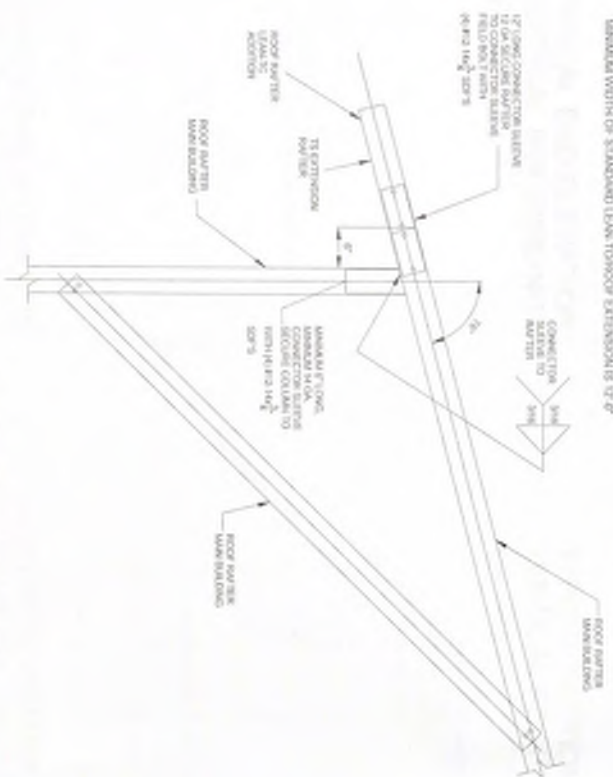
DATE 08/10/2018

BOX EAVE RAFTER LEAN-TO OPTIONS

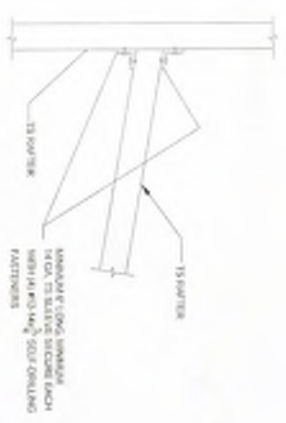


TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOW)

SCALE: NTS
MINIMUM WIDTH OF STANDARD LEAN-TO ROOF EXTENSION IS 2'-0"



12 SIDE EXTENSION RAFTER/COLUMN DETAIL
SCALE: NTS



13 LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL
SCALE: NTS

| | | | |
|-----------------|------|-------------------------|-------|
| CONTRACTOR | | VIKING STEEL STRUCTURES | |
| DESIGN DATE | | 08/10/2020 | |
| REVISION 1 | DATE | PAGE | |
| REVISION 2 | DATE | 19 | OF 24 |
| PROJECT ADDRESS | | STEEL CARPORT | |



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DATE 08/10/2020

BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



TYPICAL END ELEVATION
VERTICAL ROOF/SIDING

SCALE: NTS



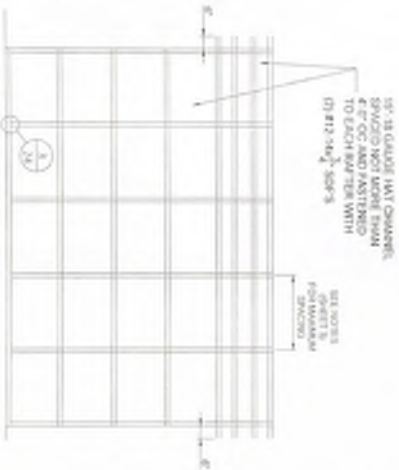
TYPICAL SECTION
VERTICAL ROOF/SIDING OPTION

SCALE: NTS



TYPICAL SIDE ELEVATION
VERTICAL ROOF/SIDING

SCALE: NTS



TYPICAL FRAMING SECTION
VERTICAL ROOF/SIDING OPTION

SCALE: NTS



PANEL ATTACHMENT
(ALTERNATE FOR VERTICAL ROOF PANELS)

SCALE: NTS

| | | | |
|-----------------|------|-------------------------|-----|
| CONTRACTOR | | VIKING STEEL STRUCTURES | |
| DESIGN DATE | | 08/10/2020 | |
| REVISION 1 | DATE | SCALE | 20 |
| REVISION 2 | DATE | SCALE | NTS |
| PROJECT ADDRESS | | STEEL CARPORT | |

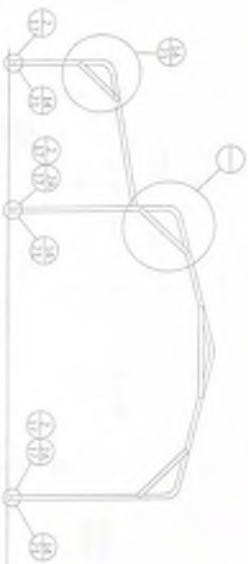


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DATE 08/10/2020

BOX EAVE RAFTER LEAN-TO OPTIONS

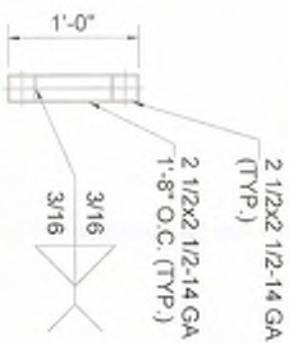


TYPICAL BOW AFTER LEAN-TO OPTION FRAMING SECTION
SCALE: NTS
MINIMUM WIDTH OF STANDARD LEAN-TO ROOF EXTENSION IS 12'-0"



LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
14
SCALE: NTS

OPTIONAL HEADER



HEADER DETAIL FOR OPENINGS
12'-0" ≤ LENGTH ≤ 20'-0"
SCALE: NTS

| | | | |
|-------------------------|------|-----------------|--|
| CONTRACTOR | | GUNDERRSON | |
| VIKING STEEL STRUCTURES | | | |
| RESPONSE DATE | DATE | PROJECT ADDRESS | |
| REVISION 1 | DATE | STEEL CARPORT | |
| REVISION 2 | DATE | | |
| SCALE | NTS | | |

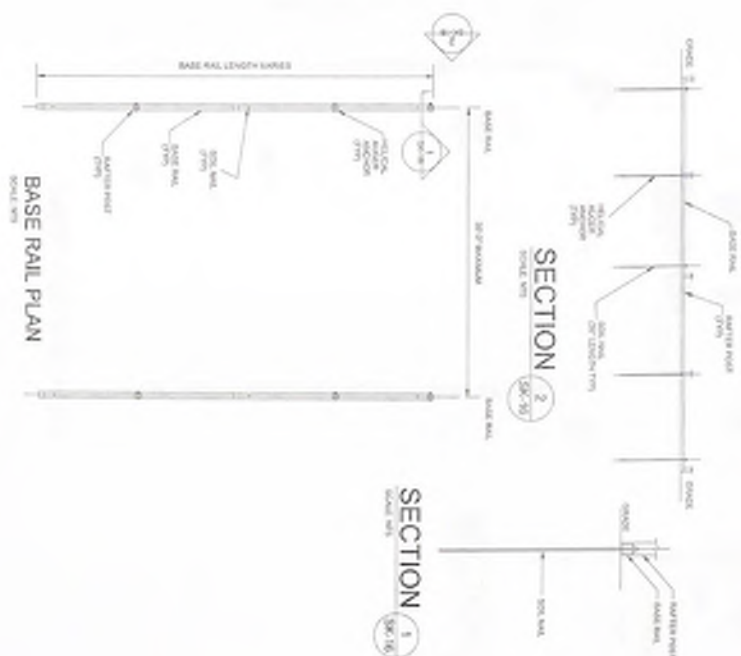


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PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
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DATE 06/10/2020

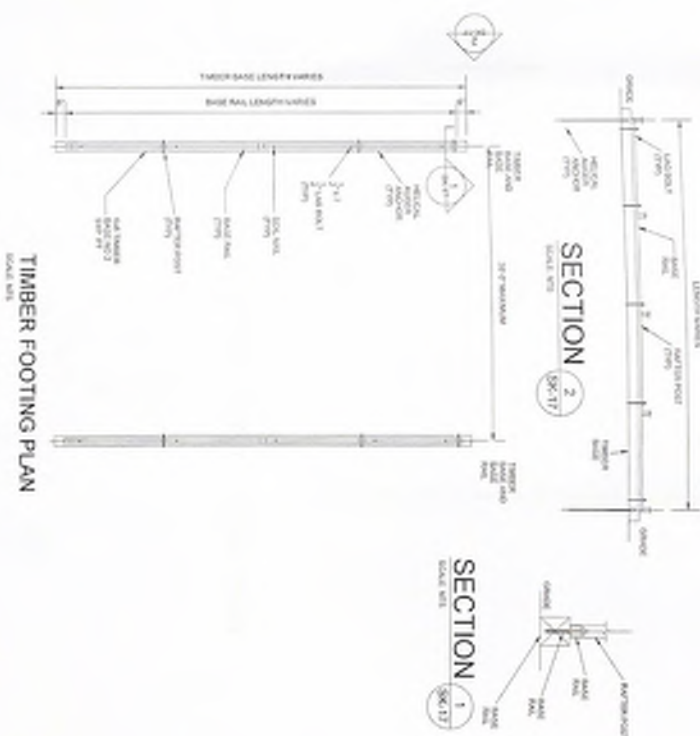
BASE RAIL ON GRADE APPLICATION



| SIZE | HELIX ANCHOR |
|------|---------------------|
| 20 | 20 |
| 20 | 20 |
| 20 | 18 EVERY OTHER POST |

NOTES
 1. INSTALLATION OF SOIL NAILS OR EXPANSION ANCHORS ALSO APPLY TO END WALLS
 2. FOR EXPOSURE, USE 1/8\"/>

OPTIONAL BASE RAIL ON TIMBER BEAM



| SIZE | HELIX ANCHOR |
|------|---------------------|
| 20 | 20 |
| 20 | 20 |
| 20 | 18 EVERY OTHER POST |

NOTES
 1. INSTALLATION OF SOIL NAILS OR EXPANSION ANCHORS ALSO APPLY TO END WALLS
 2. FOR EXPOSURE, USE 1/8\"/>

| | | | |
|-----------------|------|-------------------------|----------|
| CONTRACTOR | | VIKING STEEL STRUCTURES | |
| DESIGN DATE | | 08/10/2020 | |
| REVISION 1 | DATE | REVISION 2 | DATE |
| | | | |
| PROJECT ADDRESS | | STEEL CARPORT | |
| SCALE | NTS | PAGE | 22 of 24 |



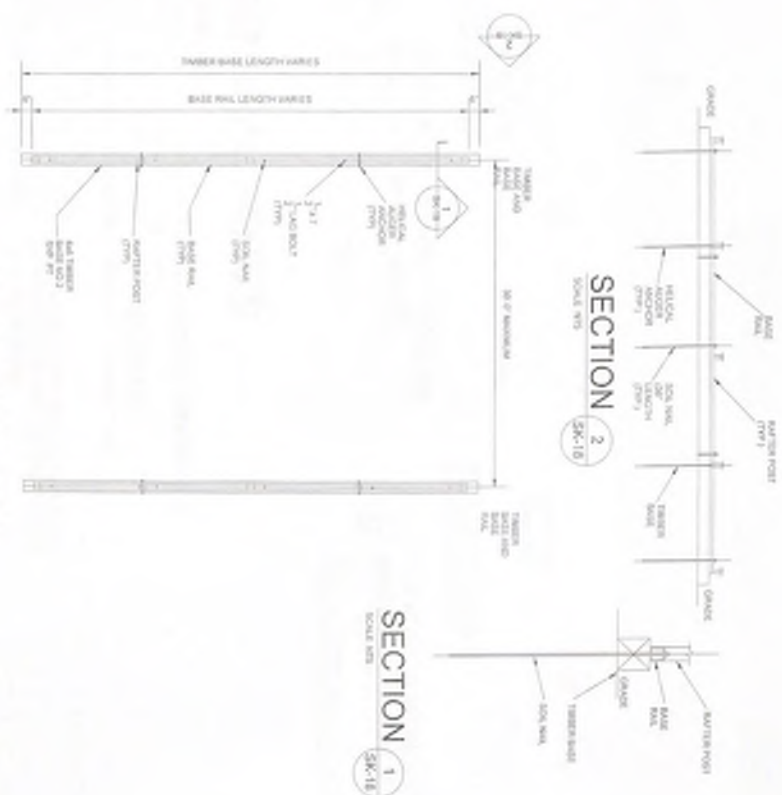
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PROJECT NO. 2020625

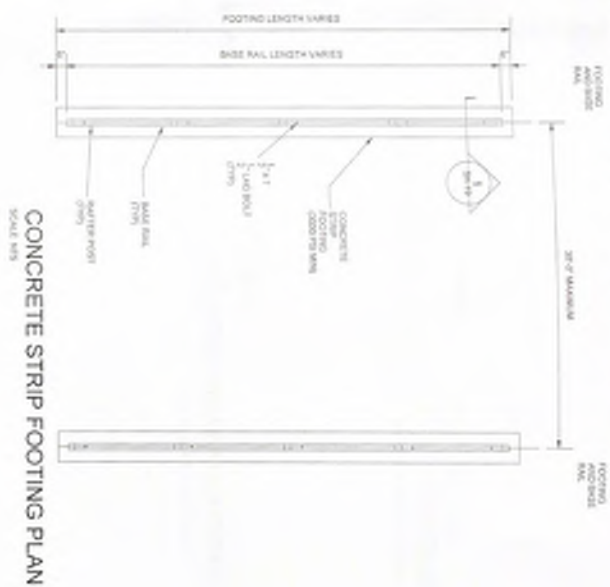
DATE 08/10/2020

OPTIONAL BASE RAIL ON TIMBER BEAM WITH SOIL NAIL

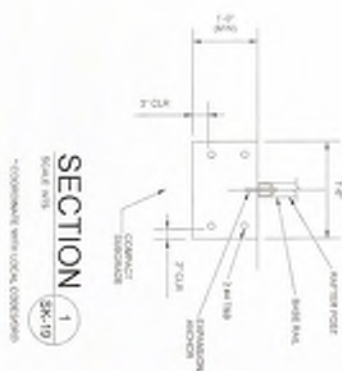
OPTIONAL CONCRETE STRIP FOOTING



TIMBER FOOTING PLAN
SCALE NTS



CONCRETE STRIP FOOTING PLAN
SCALE NTS



SECTION 1
SCALE NTS
*COORDINATE WITH LOCAL CODES/PERMITS

| SIDE LENGTH | HELIX ANCHOR |
|-------------|------------------------|
| 20' | 20' |
| 20' | 25' NOTE 2 |
| 20' | 20' (EVERY OTHER POST) |

- NOTES
1. INSTALLATION OF SOIL NAILS OR EXPANSION ANCHORS ALSO APPLY TO END WALLS
 2. FOR EXPOSURE C USE 10' SPACING (EVERY OTHER POST)

| | |
|-------------------------|------------|
| CONTRACTOR | |
| VIKING STEEL STRUCTURES | |
| PROJECT ADDRESS | |
| STEEL CARPORT | |
| DESIGN DATE | 08/10/2020 |
| REVISION 1 DATE | |
| REVISION 2 DATE | |
| SCALE | NTS |
| PAGE | 23 |
| OF | 24 |



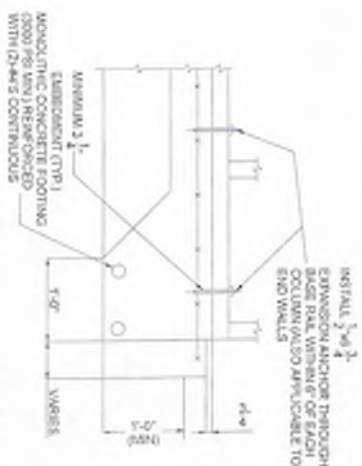
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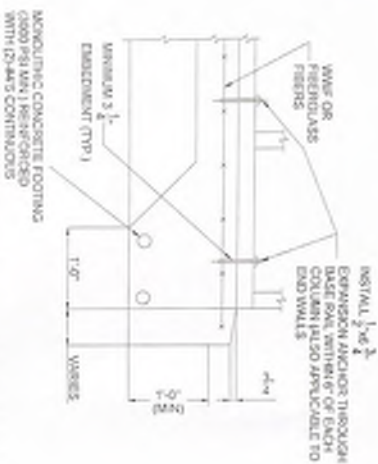
DATE 05/18/2020

BASE RAIL ANCHORAGE OPTIONS



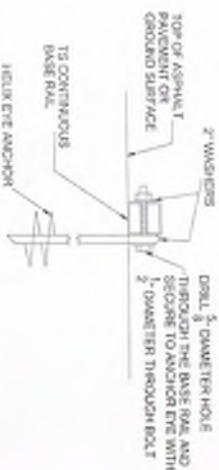
3A CONCRETE MONOLITHIC SLAB
BASE RAIL ANCHORAGE

SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4"
(COORDINATE WITH LOCAL CODES/ORD)



3B CONCRETE MONOLITHIC SLAB
BASE RAIL ANCHORAGE

SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4"
(COORDINATE WITH LOCAL CODES/ORD)



3C GROUND BASE HELIX ANCHORAGE

SCALE: NTS
(CAN BE USED FOR ASPHALT)

GENERAL NOTES

CONCRETE-

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.

COVER OVER REINFORCING STEEL-

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING

BAR SHALL BE PER ACI-318.

3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER, AND 1 1/2" ELSEWHERE.

REINFORCING STEEL-

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE

60 THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCING MAY BE BENT IN THE

SHOP OR THE FIELD PROVIDED-

1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

HELIX ANCHOR NOTES-

1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
2. FOR CORAL, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
3. FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS AND CLAYS USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
4. FOR LOOSE TO MEDIUM DENSE SANDS FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL USE MINIMUM (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT.
5. FOR VERY LOOSE TO MEDIUM DENSE SANDS FIRM TO STIFFER CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT.



PROJECT NO. 2020625

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DATE 08/10/2020

| | | | |
|-----------------|------------|-------------------------|-------|
| CONTRACTOR | | VIKING STEEL STRUCTURES | |
| PROJECT ADDRESS | | STEEL CARPORT | |
| DESIGN DATE | 08/10/2020 | REVISION 1 | DATE |
| REVISION 2 | DATE | 24 | SCALE |
| SCALE | NTS | | |