

1-2 Andra plats

2000

NOTES:

1. Specifications applicable to 26 gauge metal roof and wall panels fastened directly to 12 or 14 gauge steel tube framing, or 18 gauge hat channel roof purlins.
2. Specifications applicable only for mean roof height of 20 feet or less, and roof slopes of 7° to 27° (1:5.12 to 6:12 pitch). Spacing requirements for other roof heights and/or slopes may vary.

DETAILS IS AND IS SHOWN ON SHEET 3 OF 4

METAL CARPORT INSTALLATION PLANS AND DETAILS
AND
FRAMING AND FASTENER SPECIFICATIONS

FOR CONSTRUCTION IN THE
STATE OF FLORIDA

PREPARED FOR:
CARPORT'S ANYWHERE
P.O. BOX 776
STARKE, FL 32091

PREPARED BY:
BECHTEL ENGINEERING AND TESTING, INC.
605 WEST WILLOW AVE.
TALLAHASSEE, FL 32304

CONCRETE.

Cover shall have a Minimum Specified Compressive Strength of 2500 PSI at 28 days.

OVER JOINT REINFORCING STEEL

For foundations, minimum concrete cover over reinforcing bars shall be:

- 3 inches minimum for non-exposed concrete
- 6 inches minimum for exposed concrete

and 1-1/2 inches sawtooth reinforcement in ground cuts shall have a minimum clear distance from the face of the excavation to the reinforcement of 12 inches. Reinforcing bars used in earth walls shall be lap welded or lapped spliced. Bars for masonry walls shall be exposed to earth a weather 1-1/2 inches for masonry walls not exposed to earth or weather.

REINFORCING STEEL:

- 1. The reinforcing steel shall conform to minimum Grade 60.

Metal Fabrication:

All fabrications for use in a trench wall construction shall not directly exposed to the weather shall be fabricated in accordance with ASTM A 36, plate B2, metal plates, connections, screens, bolts and nuts exposed directly to the weather shall be stainless steel or hot dipped galvanized.

REINFORCEMENT MAY BE BENT:

- 1. All reinforcement is bent cold;
- 2. The diameter of the bend, measured on the inside of the bar, is no less than ten times the diameter; and
- 3. Reinforcement, partially embedded in concrete shall not be left bent.

EXCEPTION:

When bending is necessary to align down-lap with a vertical cut, bars partially embedded in concrete shall lay parallel to be bent at a slope of not more than 1 inch of horizontal displacement to 5 inches of vertical bar length.

10

BECHTOL ENGINEERING AND TESTING, INC.
 605 WEST OCEAN BLVD.
 DELAND, FL. 32720
 Certificate of Authorization No. 4423-338

No.



Transmitted Special by E-MAIL
 Florida License No. 51848

ENCLOSED BUILDING

CARPORTS ANYWHERE, INC.

DATE	
ISSUED	01/02/18
DESIGNED	NHS
CHECKED	TS
PROJECT	G18-002

DATE	
ISSUED	01/02/18
DESIGNED	NHS
CHECKED	TS
PROJECT	G18-002



BECHTOL ENGINEERING AND TESTING, INC.
 QUALITY ASSURANCE, SUPERVISION, AND VARIOUS TRUSS SERVICES

TYPICAL SIDE ELEVATION
NOT TO SCALE

Diagram illustrating the typical end elevation of a building, showing a gabled roof and a door. The roof is labeled "(As applicable)" and the door is labeled "(As applicable)".

TYPICAL END ELEVATION
NOT TO SCALE

TYPICAL SIDE ELEVATION

NOT TO SCALE

Diagram showing the typical end elevation of the building. The elevation features a gabled roof and a door. Labels indicate that the roof and door are to be finished "As applicable".

TYPICAL END ELEVATION
NOT TO SCALE

TYPICAL SIDE ELEVATION

NOT TO SCALE

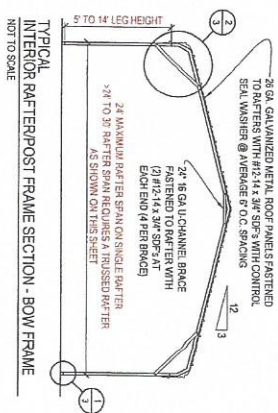
(As applicable)

(As applicable)

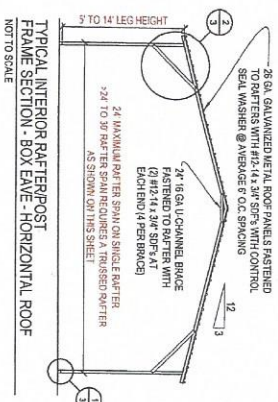
TYPICAL END ELEVATION

NOT TO SCALE

TYPICAL END ELEVATION
NOT TO SCALE



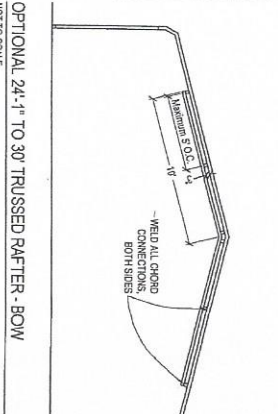
TYPICAL
INTERIOR RAFTER/POST FRAME SECTION - BOW FRAME
NOT TO SCALE



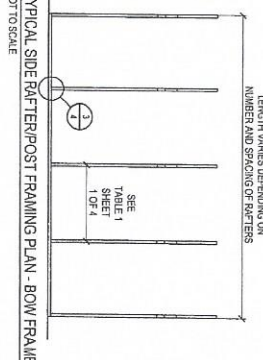
**TYPICAL INTERIOR RAFTER/POST
FRAME SECTION - BOX EAVE - HORIZONTAL ROOF**
NOT TO SCALE



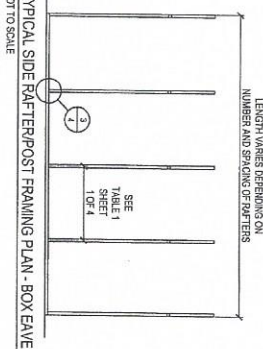
TYPICAL INTERIOR
RAFTER/ROOF FRAME SECTION VERTICAL DOOR



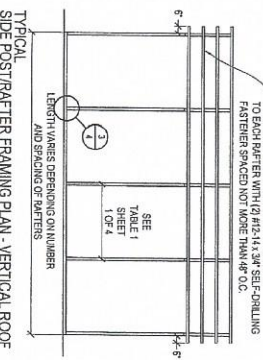
OPTIONAL 24'-1" TO 30' TRUSSED RAFTER - BOW



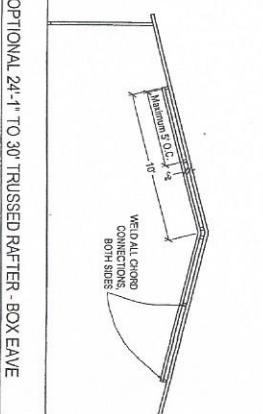
TYPICAL SIDE RAFTER/POST FRAMING PLAN - BOW FRAME
NOT TO SCALE



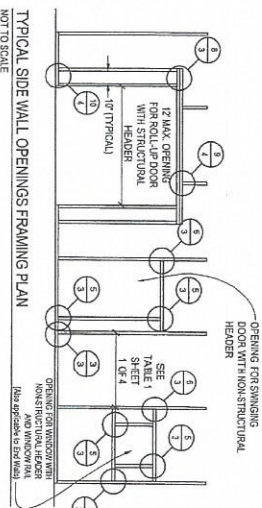
TYPICAL SIDE RAFTER/POST FRAMING PLAN - BOX EAVE
NOT TO SCALE



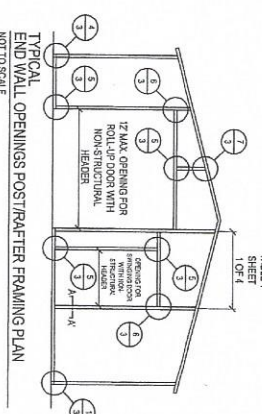
TYPICAL
SIDE POST/RAFTER FRAMING PLAN - VERTICAL ROOF
AND SPACING OF RAFTERS



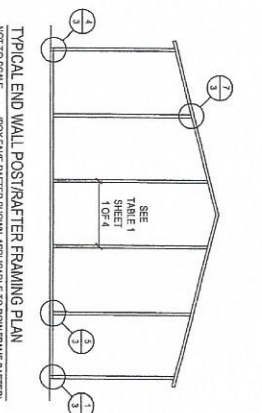
OPTIONAL 24'-1" TO 30' TRUSSED RAFTER - BOX EAVE



TYPICAL SIDE WALL OPENINGS FRAMING PLAN
NOT TO SCALE

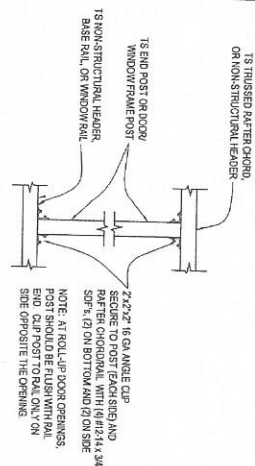


**TYPICAL
END WALL OPENINGS POST/RAFTER FRAMING PLAN**

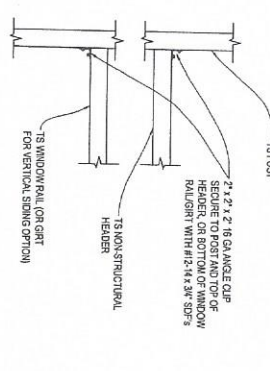


TYPICAL END WALL POST/RFTER FRAMING PLAN

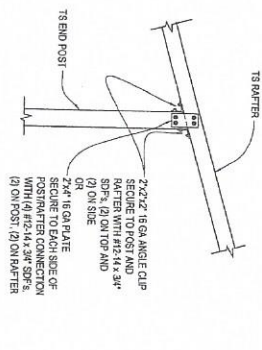
 BECHTEL ENGINEERING AND TESTING, INC. CONTRACTOR OF PROFESSIONAL SERVICE 500 CALIFORNIA AVENUE, SUITE 1000 SAN FRANCISCO, CALIFORNIA 94104		BECHTEL ENGINEERING AND TESTING, INC. 1000 CALIFORNIA AVENUE, SUITE 1000 SAN FRANCISCO, CALIFORNIA 94104 Certificate of Registration No. 38528	
CARPORTS AND WHERE INC. ENCLOSED BUILDING		Thomas Bechtel, P.E. Project Director State of California No. 38528 * * * * *	
DATE: 01/02/88		STATE OF CALIFORNIA COUNTY OF SAN FRANCISCO CITY OF SAN FRANCISCO	
DRAWN: LKB CHECKED: TTB PROJECT: 73	SCALE: NTS PROJECT: G-1002 SHEET 2 OF 4	1000 CALIFORNIA AVENUE, SUITE 1000 SAN FRANCISCO, CALIFORNIA 94104	



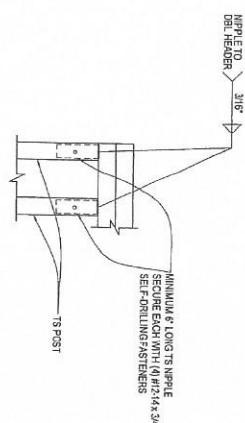
5
POST TO NON-STRUCTURAL HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL
Not To Scale



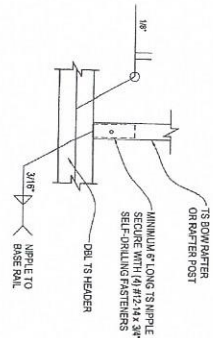
6
NON-STRUCTURAL HEADER OR WINDOW RAIL TO POST CONNECTION DETAIL
Not To Scale



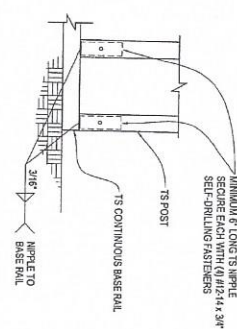
7
END POST/RAFTER CONNECTION DETAIL
Not To Scale



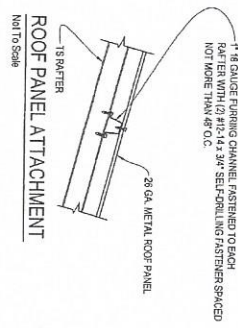
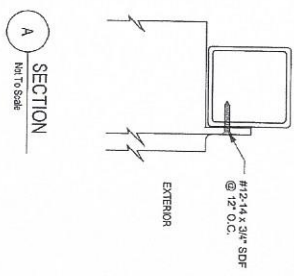
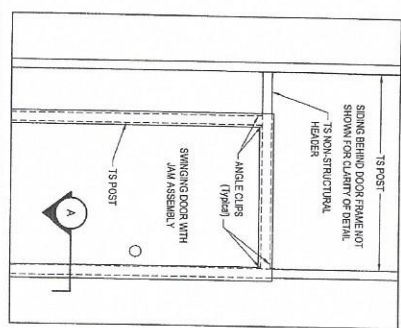
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DBL HEADER/POST CONNECTION DETAIL
Not To Scale



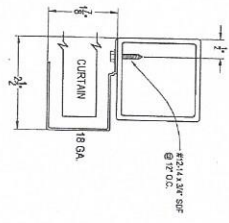
9
RAFTER POST/DBL HEADER CONNECTION DETAIL
Not To Scale



10
RAFTER POST/BASE RAIL CONNECTION DETAIL
Not To Scale



13
ROOF PANEL ATTACHMENT
Not To Scale



14
ROLL-UP DOOR GUIDE TO POST CONNECTION DETAIL
Not To Scale

CARPORTS ANYWHERE, INC.
ENCLOSED BUILDING

DATE	01/02/16
DESIGN	MDG
CHECK	NTS
PROJECT	TS
REVISION	TS
SHEET	4 OF 4

BECHTOL ENGINEERING AND TESTING, INC.
Professional Engineer
No. 38536
State of Florida
Professional Engineer

Revised

1-2 Anchor Plus

TABLE 1
RAFTER FRAME, END POST, GROUND ANCHOR AND PANEL FASTENER SPACING SPECIFICATIONS

RISK CATEGORY	WIND EXPOSURE CATEGORY	ULTIMATE WIND SPEED (MPH)	NOMINAL WIND SPEED (MPH)	MAXIMUM POST / RAFTER SPACING (FEET)	AVERAGE FASTENER SPACING ON CENTERS ALONG RAFTERS OR PURLINS, AND POSTS OR GIRTS (INCHES)	
					INTERIOR POSTS/RAFTERS	END POSTS/RAFTERS
I	C	110 TO 150	89 TO 116	5.0	6	6
		151 TO 180	117 TO 139	4.0	6	6

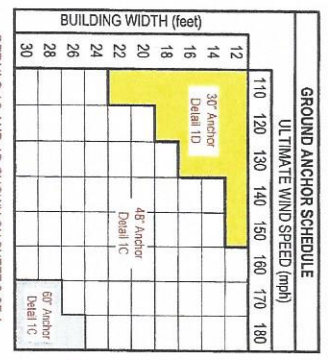
NOTES: 1. Specifications applicable to 26 gauge metal roof and wall panels fastened directly to 12 or 14 gauge steel lobe framing, or 18 gauge hat channel roof purlins.
2. Specifications applicable only for mean roof height of 20 feet or less, and roof slopes of 7" to 27" (1.5:12 to 6:12 pitch). Spacing requirements for other roof heights and/or slopes may vary.

FBC APPROVED PRODUCTS LIST

PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	APPROVAL No. & DATE	MAXIMUM ALLOWABLE WIND SPEED
STRUCTURAL COMPONENTS	ROOF BECK	UNION CORRUGATING COMPANY 26 Gauge Aluminum Panel	FL1835, 2/14 12/27/17	160
STRUCTURAL COMPONENTS	STRUCTURAL WALL	UNION CORRUGATING COMPANY 26 Gauge Aluminum Panel	FL1835, 2/14 12/27/17	160
STRUCTURAL COMPONENTS	STRUCTURAL WALL	FLORAL 24 Gauge Galvalume Panel	FL1835, 2/14 12/27/17	160
STRUCTURAL COMPONENTS	FLOOR VENT	FLOOR SOLUTIONS, LLC Model S-500	FL1835, 2/14 12/27/17	160
EXTERIOR DOORS	SWINGING	THE HALL-TRU CORPORATION Classic-Craft	FL1835, 2/14 12/27/17	160
EXTERIOR DOORS	SLIDING	ELITE DOOR AND METAL COMPANY Series 407	FL1835, 2/14 12/27/17	170
EXTERIOR DOORS	ROLL-UP	ASTA INDUSTRIES INC. Model 230	FL1835, 2/14 12/27/17	160
EXTERIOR DOORS	ROLL-UP	JANUS INTERNATIONAL CORPORATION Series 718	FL1835, 2/14 12/27/17	130
WINDOWS	SINGLE HUNG	POCHONTAS ALUMINUM COMPANY, INC. Model 100 VS	FL1835, 2/14 12/27/17	150
WINDOWS	SINGLE HUNG	MI WINDOWS AND DOORS Model 160 SH	FL1835, 2/14 12/27/17	160

GENERAL NOTES:

- THESE PLANS PERTAIN ONLY TO THE STRUCTURE, INCLUDING MAIN WIND FORCE RESISTING SYSTEM, COMPONENTS AND CLADDING, AND BASE RAIL ANCHORAGE. OTHER DESIGN ISSUES, INCLUDING BUT NOT LIMITED TO PLUMBING, ELECTRICAL, MECHANICAL, AND BASE RAIL ANCHORAGE, ARE THE RESPONSIBILITY OF OTHERS.
- THESE STRUCTURES ARE DESIGNED AS NON-HABITABLE UTILITY/STORAGE BUILDINGS (RISK CATEGORY II) CAPABLE OF SUPPORTING DEAD LOAD OF THE STRUCTURE AND APPLICABLE LIVE AND WIND LOADS. IMPROVEMENTS NOT SPECIFICALLY ADDRESSED HEREIN WHICH EXERT ADDITIONAL LOAD ON THE STRUCTURE, AND INSTALLATION OF DOORS, WINDOWS AND OTHER COMPONENTS NOT LISTED IN THE FBC APPROVED PRODUCTS LIST ON THIS SHEET, AND NOT PROVIDED AND INSTALLED BY CARPORTS ANYWHERE, INC. SHALL BE AT THE OWNER'S RISK. BECHTOL ENGINEERING AND TESTING, INC. SHALL NOT BE RESPONSIBLE FOR STRUCTURAL DAMAGE OR FAILURE DUE TO THE APPLICATION OF ADDITIONAL LOADS OF NON-APPROVED COMPONENTS.
- ALL STEEL TUBING SHALL BE 60 KSI GALVANIZED STEEL. ALL FASTENERS SHALL BE GALVANIZED OR STAINLESS STEEL.
- FASTEN METAL ROOF AND WALL PANELS TO FRAMING WITH #12-14 x 3/8" SELF-DRILLING FASTENERS WITH CONTROL SEAL WASHER @ 6" O.C. AVERAGE.
- ALL FIELD FRAMING CONNECTIONS SHALL BE #12-14 x 3/8" SELF-DRILLING SCREWS WITHOUT CONTROL SEAL WASHER. ALL SHOP FRAMING CONNECTIONS SHALL BE WELDED.
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS. THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40. CONCRETE SLAB FOUNDATIONS SHALL BE REINFORCED WITH 6x6xM 4XMT 4 WELDED WIRE FABRIC COMPLYING WITH ASTM A 185, OR WITH SYNTHETIC FIBER REINFORCEMENT COMPLYING WITH ASTM C1116.
- BASE RAIL ANCHOR REQUIREMENTS: ONE WITHIN 6" OF EVERY POST LOCATION, AND BOTH SIDES OF OPENINGS WHERE BASE RAIL IS ABSENT. GROUND ANCHORS ARE NOT REQUIRED FOR CONCRETE FOOTING AND/OR CONCRETE SLAB CONSTRUCTION. SEE GROUND ANCHOR SCHEDULE (THIS SHEET) FOR SPECIFIC TYPE GROUND ANCHOR REQUIREMENTS.
- CONCRETE EXPANSION ANCHORS SHALL BE WELT ANKRA-TITE MODEL AT1292, OR STEEL ANCHOR MODEL HSA 1290, OR EQUIVALENT.
- POST/RAFTER BRACING: BRACE ON EVERY POST/RAFTER CONNECTION, EXCEPT FOR END WALLS AND GABLE ENDS.
- SLAB FOUNDATION SURGRADE SOILS SHALL BE TENSILE TREATED AND COVERED WITH 6 MIL VAPOR RETARDER PER SECTION R318.1 OF THE FLORIDA BUILDING CODE SIXTH EDITION (2017) (FBC/FC 2017), RESIDENTIAL, AND SECTION 1916.1 OF THE FBC/FC 2017-BUILDING.
- 14 GA FRAMING IS 2-1/2" x 2-1/2" TUBE STEEL (TS). NIPPLES ARE 2-1/4" x 2-1/4" TS FOR 14 GA FRAMING. 12 GA FRAMING IS 2-1/4" x 2-1/4" TS. NIPPLES ARE 2" x 2" TS FOR 12 GA FRAMING.



DETAILS 1C AND 1D SHOWN ON SHEET 3 OF 4

METAL CARPORT INSTALLATION PLANS AND DETAILS
AND
FRAMING AND FASTENER SPECIFICATIONS

FOR CONSTRUCTION IN THE
STATE OF FLORIDA

PREPARED FOR:
CARPORTS ANYWHERE
P.O. BOX 776
STARKE, FL 32091

PREPARED BY:
BECHTOL ENGINEERING AND TESTING, INC.
605 WEST NEW YORK AVENUE
DELAND, FLORIDA 32720
Certificate of Authorization No. 00005492

THIS IS TO CERTIFY THAT THE CALCULATIONS AND SPECIFICATIONS HEREIN HAVE BEEN PREPARED BY THE UNDERSIGNED PROFESSIONAL ENGINEER, AND ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1609 OF THE FLORIDA BUILDING CODE, SIXTH EDITION (2017). THE PLANS ARE VALID UNTIL THE NEXT REVISION OF THE FLORIDA BUILDING CODE.



CARPORTS ANYWHERE, INC.
ENCLOSED BUILDING

DATE	01/02/18
DESIGN	MKB
CHECK	NTS
DATE	01/02/18
DESIGN	NTS
CHECK	NTS
DATE	01/02/18
DESIGN	NTS
CHECK	NTS

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

2. Once the problem is identified, the next step is to define the objectives and goals of the project. This helps to clarify what needs to be achieved and provides a clear direction for the team.

3. The third step is to develop a plan or strategy to address the problem. This involves breaking down the problem into smaller, manageable tasks and determining the resources needed to complete each task.

4. The fourth step is to implement the plan. This involves assigning tasks to team members, setting deadlines, and monitoring progress to ensure that the project is on track.

5. The final step is to evaluate the results of the project. This involves comparing the actual outcomes with the objectives and goals to determine the effectiveness of the project and identify areas for improvement.

(As applicable)

(As applicable)

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Diagram illustrating a building with a roll-up door and a swinging door. The roll-up door is labeled "ROLL-UP DOOR (As applicable)" and the swinging door is labeled "SWINGING DOOR (As applicable)".

NOT TO SCALE

Diagram illustrating the typical end elevation of a building. The structure features a large roll-up door on the left and a smaller swing door on the right. Labels indicate the roll-up door is "(As applicable)" and the swing door is "(As applicable)".

NOT TO SCALE

TYPICAL INTERIOR RAFTER/POST
FRAME SECTION - BOX EAVE - HORIZONTAL ROOF

TYPICAL INTERIOR
RAFTER/POST FRAME SECTION - VERTICAL ROOF
NOT TO SCALE

Diagram illustrating the assembly of a trussed rafter. The rafter is shown with a maximum span of 50'-0" and a height of 10'-0". The assembly includes a welded all-charge connection on both sides, indicated by the text "WELD ALL CHARGE CONNECTIONS BOTH SIDES". The diagram also shows the rafter being bolted to a wall, with a note "BOLT TO WALL" pointing to the connection point.

OPTIONAL 24'-1" TO 30' TRUSSED RAFTER - BOW
NOT TO SCALE

LENGTH VARIES DEPENDING ON
NUMBER AND SPACING OF RAFTERPOSTS

SEE
TABLE 1
SHEET
1 OF 4

TYPICAL SIDE RAFTERPOST FRAMING PLAN - BOW FRAME

NOT TO SCALE

TYPICAL SIDE RAFTER/POST FRAMING PLAN - BOW FRAME
NOT TO SCALE

LENGTH W/AS BEARING ON NUMBER AND SPACING OF RAFTERS

REF
TABLE 1
SHEET
1 OF 4

TYPICAL SIDE RAFTER/POST FRAMING PLAN - BOX EAVE
NOT TO SCALE

Diagram illustrating the typical side post-rafter framing plan, showing vertical roof layout. The plan includes dimensions for length, width, and spacing of rafters. A note specifies: "1" 18 GAUGE FLUPOUR CHANNEL, FASTENED TO EACH RAFTER WITH #12 14"x4"x8" S.P. DRILLING FASTENERS SPACED NOT MORE THAN 48" O.C."

Labels and dimensions shown in the diagram include:

- 1" 18 GAUGE FLUPOUR CHANNEL, FASTENED TO EACH RAFTER WITH #12 14"x4"x8" S.P. DRILLING FASTENERS SPACED NOT MORE THAN 48" O.C.
- LENGTH (VARIABLE DIMENSION)
- WIDTH (VARIABLE DIMENSION)
- SPACING OF RAFTERS
- USE TYPE 1 SHEET 1 OF 4

TYPICAL
SIDE POST/RAFTER FRAMING PLAN - VERTICAL ROOF
NOT TO SCALE

[illegible]

OPTIONAL 24'-1" TO 30' TRUSSED RAFTER - BOX EAVE
NOT TO SCALE

Diagram illustrating the typical side wall openings framing plan. The plan shows a series of vertical wall sections with openings. Key components labeled include:

- 12' MAX. OPENING FOR COLUMN WITH MIN. 12" TYPICAL**: Dimension indicating the maximum opening size and the minimum typical width.
- OPENING FORMSWING DOOR WITH NON-STRUCTURAL HEADER**: Label pointing to the header above the opening.
- SEE TABLE SHEET 1 OF 4**: Reference to the table on sheet 1 of 4.
- OPENING FOR WINDOW WITH NON-STRUCTURAL HEADER**: Label pointing to the header above the window opening.
- Also applicable to End Wall**: Note indicating the plan is also applicable to end walls.

1
TYPICAL SIDE WALL OPENINGS FRAMING PLAN
NOT TO SCALE

TYPICAL
END WALL OPENINGS POSTSTRAFTER FRAMING PLAN

12 MAX. OPENING FOR
POSTSTRAFTER FRAMING
HEADER

12 MAX.

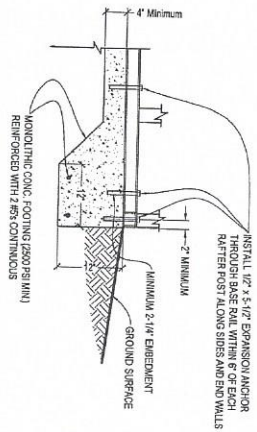
12 MAX.

TABLE 1
SHEET
1 OF 4

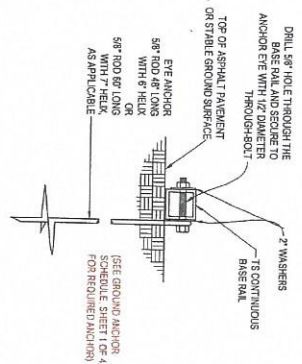
END WALL OPENINGS POST/RAFTER FRAMING PLAN
NOT TO SCALE

TYPICAL END WALL POST/RAFTER FRAMING PLAN
NOT TO SCALE (BOX EAVE RAFTER SHOWN, APPLICABLE TO BOW/FRAME RAFTER)

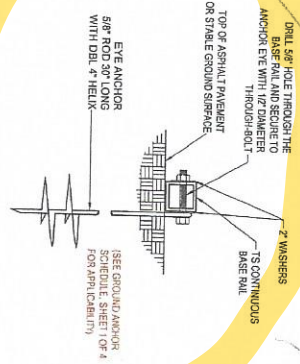
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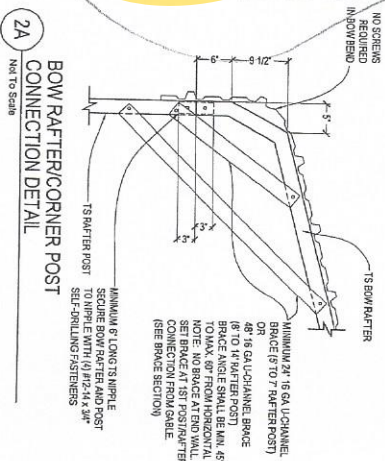
1A
Not To Scale
CONCRETE MONO SLAB BASE RAIL ANCHORAGE



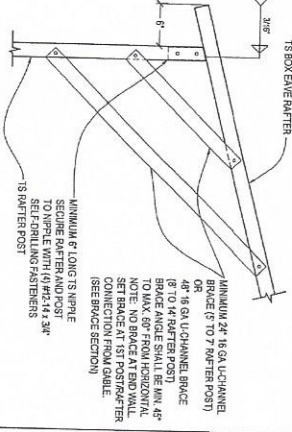
1B
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BASE RAIL DEEP ANCHORAGE



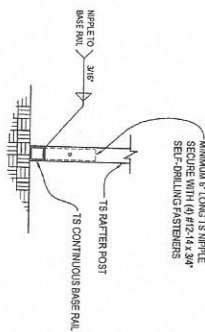
1C
Not To Scale
BASE RAIL ANCHORAGE



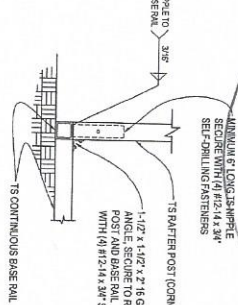
2A
Not To Scale
BOW RAFTER/CORNER POST CONNECTION DETAIL



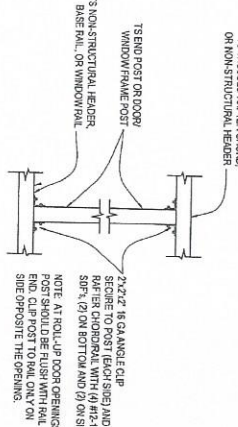
2B
Not To Scale
BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL



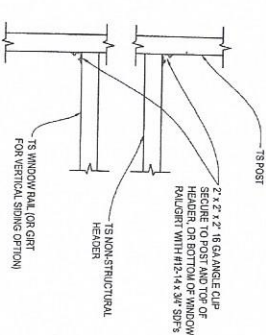
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Not To Scale
RAFTER POST/BASE RAIL CONNECTION DETAIL



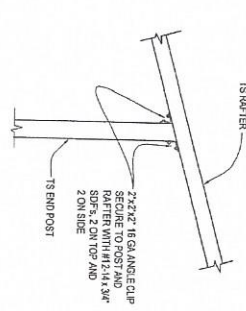
4
Not To Scale
END POST/BASE RAIL CONNECTION DETAIL



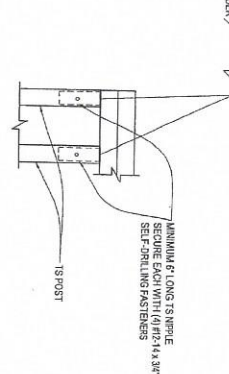
5
Not To Scale
POST TO NON-STRUCTURAL HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL



6
Not To Scale
NON-STRUCTURAL HEADER OR WINDOW RAIL TO POST CONNECTION DETAIL



7
Not To Scale
END POST/RAFTER CONNECTION DETAIL



8
Not To Scale
DBL HEADER/POST CONNECTION DETAIL

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FAX: 312.321.1101
WWW.BECHTOL-TESTING.COM

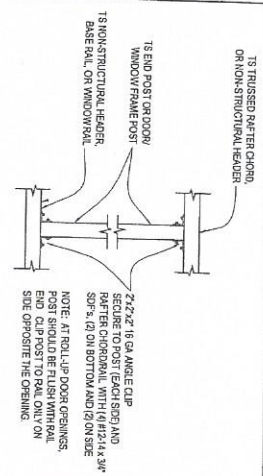
STATE OF FLORIDA

PROFESSIONAL ENGINEER

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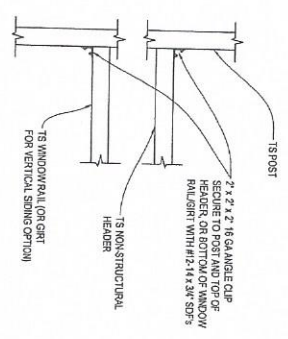
PROJECT	DATE
CLIENT	01/20/18
DESIGN	MDJ
CHECKED	NTS
APPROVED	01/20/18
REVISIONS	
BY	DATE
1	

SHEET 3 OF 4



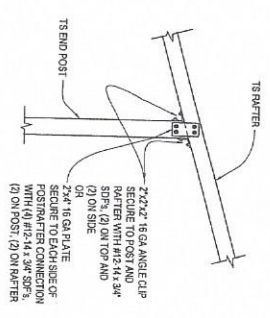
5
Not To Scale

POST TO NON-STRUCTURAL HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL



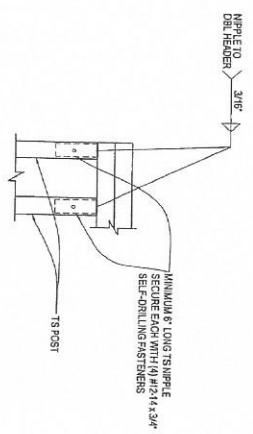
6
Not To Scale

NON-STRUCTURAL HEADER OR WINDOW RAIL TO POST CONNECTION DETAIL



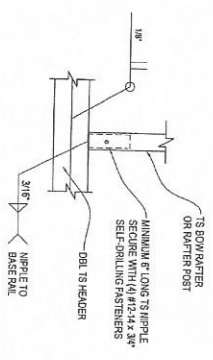
7
Not To Scale

END POST/RAFTER CONNECTION DETAIL



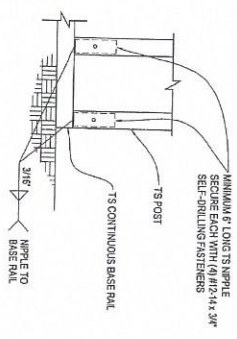
8
Not To Scale

DBL HEADER/POST CONNECTION DETAIL



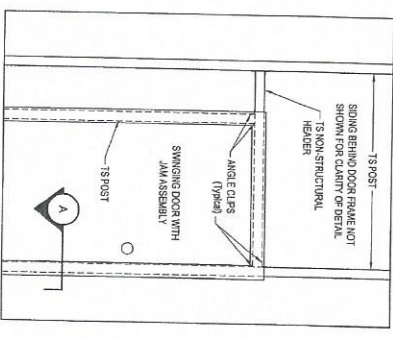
9
Not To Scale

RAFTER POST/DBL HEADER CONNECTION DETAIL



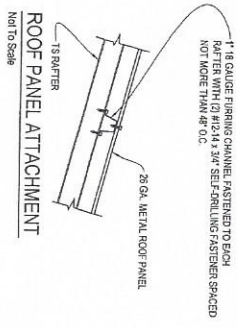
10
Not To Scale

RAFTER POST/BASE RAIL CONNECTION DETAIL

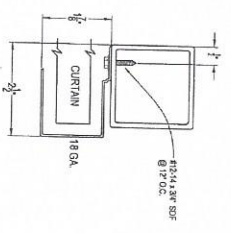


A
Not To Scale

SECTION



ROLL-UP DOOR GUIDE TO POST CONNECTION DETAIL



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DATE	BY	CHKD	DATE
01/02/18	NTS		
01/02/18	NTS		
01/02/18	NTS		

SHEET 4 OF 4