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SHEET I		STRIP FOOTING OPTION
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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG	63	BULAR BUILDIN 1 SE INDUSTRIA AKE CITY, FLOR	AL CIRC	CLE
	CHECKED BY: PDH	30'-0"x20'	-0" ENCLOSED		NG EXP. B
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INSTALLATION NOTES AND SPECIFICATIONS

- 1. DESIGN IS FOR A MAXIMUM 30'-0" WIDE x 20'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
- 2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE (FBC) 7TH EDITION, 2012 INTERNATIONAL BUILDING CODE (FBC), 2015 IBC, AND 2018 IBC.
- 3. DESIGN LOADS ARE AS FOLLOWS:

A) DEAD LOAD

= 1.5 PSF

B) LIVE LOAD

= 15 b2t

- C) GROUND SNOW LOAD = 10 PSF
- LOW ULTIMATE WIND SPEED 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 108 MPH): MAXIMUM RAFTER/POST AND END POST SPACING = 5.0 FEET.
- 5. HIGH ULTIMATE WIND SPEED 141 TO 170 MPH (NOMINAL WIND SPEED 109 TO 132 MPH): MAXIMUM RAFTER/POST AND END POST SPACING = 4.0 FEET.
- 6. END WALL CULUMNS (PUSIS) AND SIDE WALL COLUMNS ARE EQUIVALENT IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
- 7. RISK CATEGORY I.
- 8. WIND EXPOSURE CATEGORY B.
- 9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS. FOR VERTICAL PANELS, 29 GAUGE METAL PANELS SHALL BE FASTENED TO 18 GAUGE HAT CHANNELS (UNLESS OTHERWISE NOTED).
- 10. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS, INTERIOR = 9' DR END = 6', (MAX.)
- 11. FASTENERS CONSIST OF #12-14×3/4" SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS.
 SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14" (3:42 PITCH) OR LESSSPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY, ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF JOINT SEALANT.
- IZ. STANDARD ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6° OF EACH COLUMN.
- 13. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/WELDED NUT x 30° LONG IN SUITABLE SOIL CONDITIONS MAY BE USED FOR LOW (\(\lambda \) 108 MPH NOMINAL) WIND SPEEDS ONLY. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED. COORDINATE WITH LOCAL CODES/GRDINANCES REGARDING MINIMUM LENGTH FOR FROST DEPTH PROTECTION.
- 14. WIND FORCES GOVERN OVER SEISMIC FORCES, SEISMIC PARAMETERS ANALYZED ARE:

SDIL SITE CLASS = D RISK CATEGORY I

R= 3.25

1_E= 1.0

Sps= 1.522 g V= CsW

 $S_{pl} = 0.839 g$



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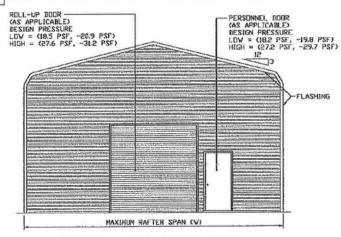
***	DRAWN BY JG		BULAR BUILDIN			_
	CHECKED BY: PDH	LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B				
_	PROJECT MGR: WSM	DATE: 1-8-21	SCALE: NTS		ND 160225/ 005/203525	
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BOX EAVE FRAME RAFTER ENCLOSED BUILDING ROLL-UP DOOR (AS APPLICABLE) DESIGN PRESSURE LOV = (BB.) PSF, -20.9 PSF) HIGH = (27.6 PSF, -31.2 PSF) (TYP.) FLASHING HAXIMUM RAFTER SPAN (W)

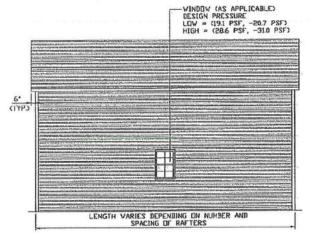
TYPICAL END ELEVATION

SCALE: NTS

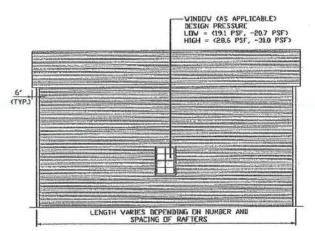
BOW FRAME RAFTER ENCLOSED BUILDING



TYPICAL END ELEVATION

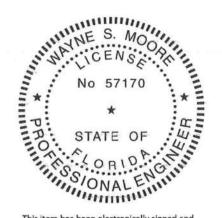


TYPICAL SIDE ELEVATION



TYPICAL SIDE ELEVATION

SCALE: NTS



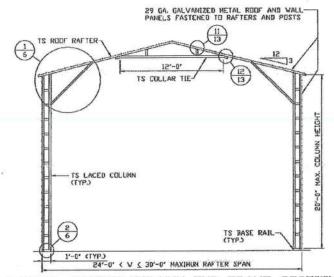
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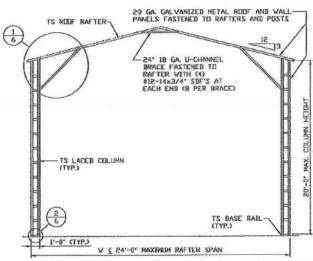
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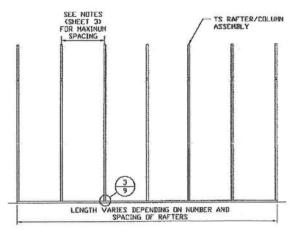
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	CHECKED BY: PDH		AKE CITY, FLOI '-0" ENCLOSED			
_	PROJECT MGR: WSM	DATE: 1-8-21	SCALE: NTS		ND: 16022S/ 00S/20352S	
	CLIENT: TBS	SHT. 4	DWG. NO SK-3		REVA 5	



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS



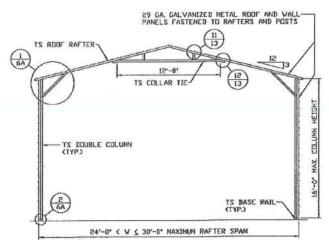
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CHECKED BY: PDH		'-0" ENCLOSED			
PROJECT MGR: VSM	DATE: 1-8-21	SCALE) NTS		9 ND: 16022S/ 100S/20352S	
CLIENT: TBS	SHT. 5	DVG. NO SK-3		REV. 5	



TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS

24' 18 GA. U-CHANNEL
BRACE FASTENED TO RAFTERS AND POSTS

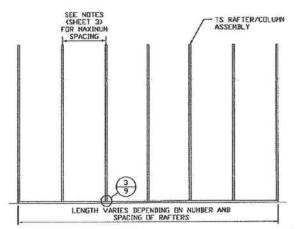
24' 18 GA. U-CHANNEL
BRACE FASTENED TO
RAFTER WITH (4)
182-14-80/4' SDF'S AT
EACH END (8 PER BRACE)

15 BOUBLE COLUMN
(TYP.)

15 BASE RAIL
(TYP.)

16 BASE RAIL
(TYP.)

TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS



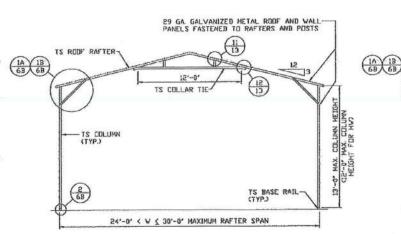
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	CHECKED BY: PDH		AKE CITY, FLOI '-0" ENCLOSED			
-	PROJECT MGR: WSM	DATE: 1-8-21	SCALE: NTS	ND: 160225/ 005/203525		
	CLIENT: TBS	SHT. 5A	DVG. ND: SK-3	REVA 5		



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS

TS ROOF RAFTER

(8)

29 GA GALVANIZED METAL ROOF AND VALL PANELS FASTEMED TO RAFTERS AND POSTS

TS BASE RAIL

13'-0" MAX, COLUMN HEIGHT (12'-0" MAX, COLUMN HEIGHT FOR HV)

-24' 18 GA. U-CHANNEL BRACE FASTENED TO RAFTER VITH (4) #12-14x3/4' SDF'S AT EACH END (8 PER BRACE)

TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS

SEE NOTES

SINCET 3)
FOR MAXIMUM
SPACING

LENGTH VARIES DEPENDING ON NUMBER AND
SPACING OF RAFTERS

TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS



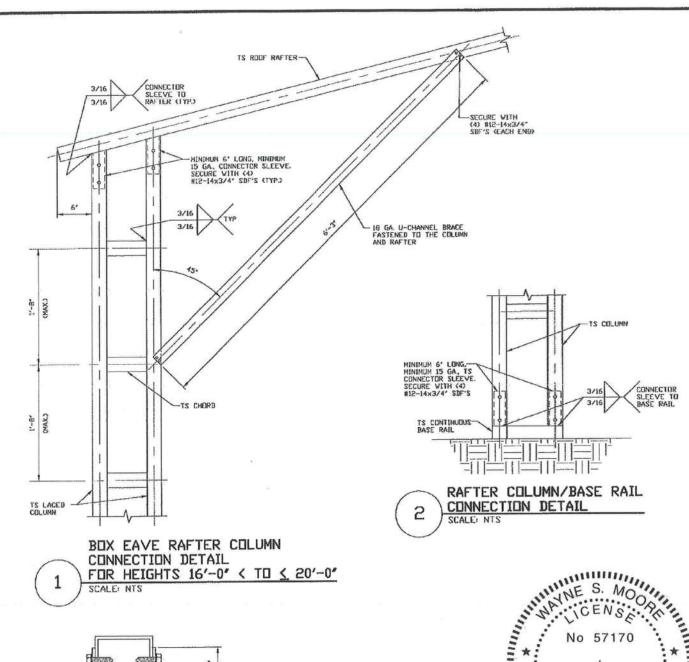
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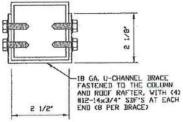
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CLIENT) TBS	SHT. 5B	DWG. NO: SK-3		REV. 5		





BRACE SECTION SCALE: NTS



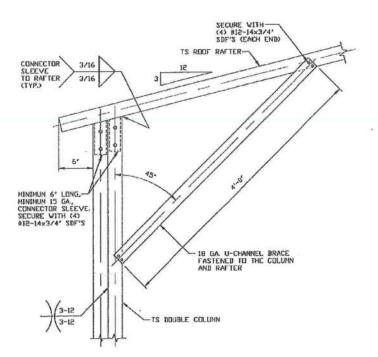
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	Water Street,	TU	BULAR BUILDIN	NG SYSTEMS
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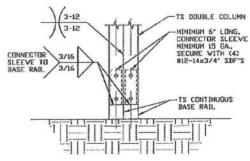
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CLIENT: TBS	SHT. 6	DWG. ND: SK-3		REVA 5		



BOX EAVE RAFTER COLUMN
CONNECTION DETAIL

FOR HEIGHTS 13'-0" < TO \(\) 16'-0"

SCALE: NTS NDTE: COLUMN HEIGHTS 12'-0' < TO & 16'-0" FOR HIGH WIND.



RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS

2

-18 GA, U-CHANNEL BRACE
FASTENED TO THE COLLUMN
AND ROUP RAFTER, VITH (4)
BIE-14x3/4' SDF'S AT EACH
END (8 PER BRACE)

BRACE SECTION SCALE: NTS



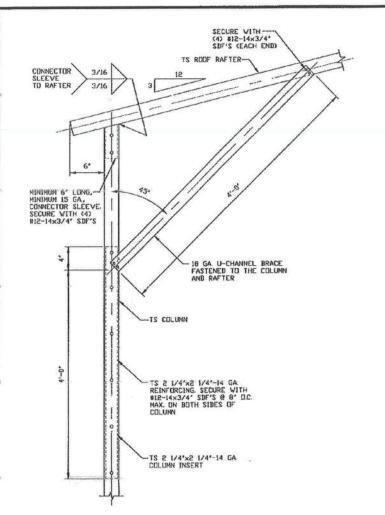
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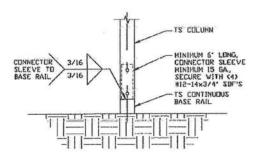
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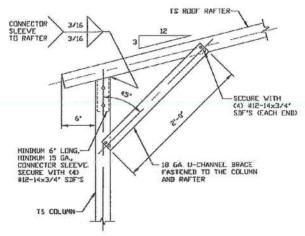


BOX EAVE RAFTER COLUMN
CONNECTION DETAIL
FOR HEIGHTS 10'-0' < TO < 13'-0"

SCALE: NTS NDTE: MAXIMUM COLUMN HEIGHT IS 12'-0" FOR HIGH WIND.



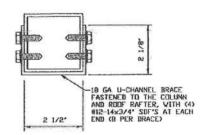
2 RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS



BOX EAVE RAFTER COLUMN CONNECTION DETAIL

FOR HEIGHTS

SCALE NTS



BRACE SECTION SCALE: NTS



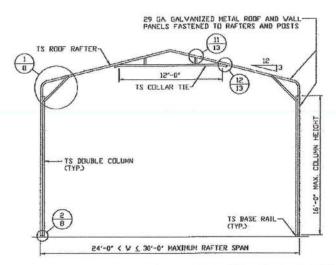
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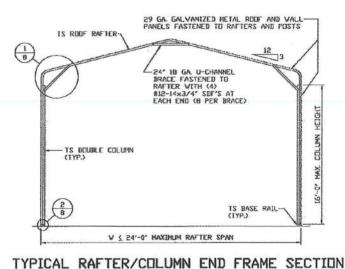
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CLIENT: TBS	SHT, 6B	DWG. NO SK-3		REV. 5			

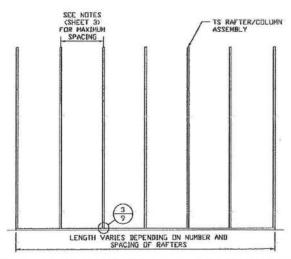




TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS

SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

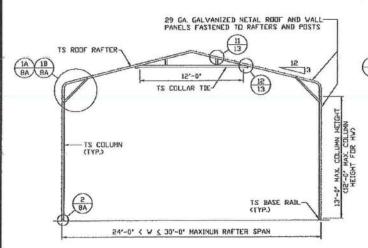
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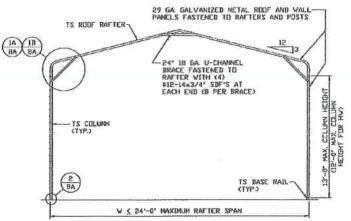
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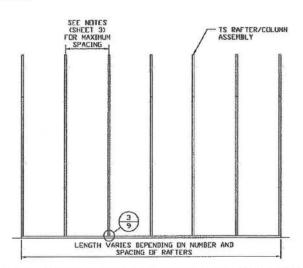
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	CLIENT: TBS	SHT. 7	DWG. NO SK-3		REV. 5	





TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS

TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE NTS



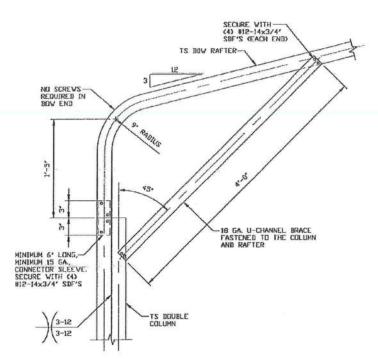
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS



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CONNECTOR 3/16
SLEEVE TO 3/16
SLEEVE TO 3/16
BASE RAIL

RAFTER COLUMN/BASE RAIL

RAFTER COLUMN/BASE RAIL

CONNECTION DETAIL

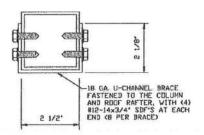
SCALE: NTS

2

BOX EAVE RAFTER COLUMN CONNECTION DETAIL

FOR HEIGHTS 13'-0" < TO < 16'-0"

NOTE: COLUMN HEIGHTS 12'-0" < TO < 16'-0" FOR HIGH WIND.



BRACE SECTION

1



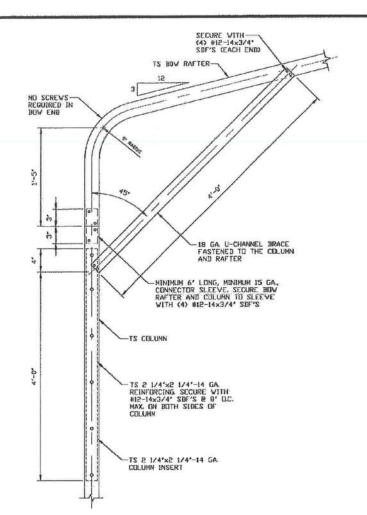
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DRAWN BY: JG		BULAR BUILDIN 11 SE INDUSTRIA AKE CITY, FLOF	AL CIR	CLE 2025	
CHECKED BY: PDH	30'-0"x20	'-0" ENCLOSED I	BUILD	ING EXP. B	
PROJECT MGR: WSM	DATE: 1-8-21	SCALE: NTS		ND: 160225/ 005/203525	
CLIENT: TBS	SHT. B	DAC NO 2K-3		REV. 5	

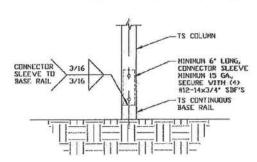


BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0' < TO < 13'-0"

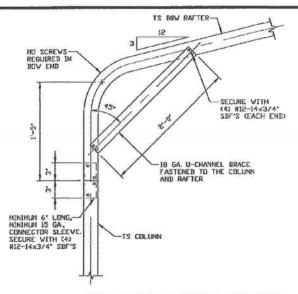
SCALE: NTS

1A

NOTE: MAXIMUM COLUMN HEIGHT IS 12'-0' FOR HIGH WIND.

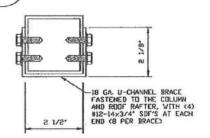


RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS & 10'-0"

1B SCALE NTS



BRACE SECTION SCALE: NTS



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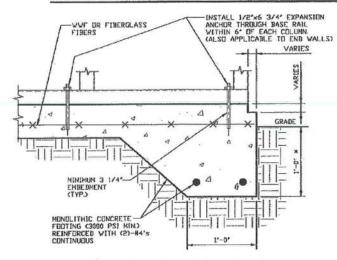
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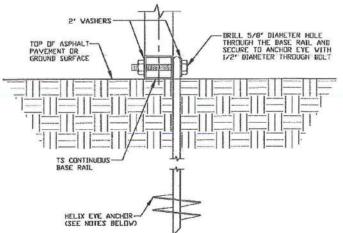
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	DRAWN BY: JG	631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025				
	CHECKED BY: PDH	30'-0"x20	'-0" ENCLÓSED	BUILD	ING EXP. B	
_	PROJECT MGR: WSM	DATE: 1-8-21	SCALE) NTS		ND 16022S/ 00S/20352S	
	CLIENT: TBS	SHT, BA	DAC NO 2K-3		REV. 5	

BASE RAIL ANCHORAGE OPTIONS FOR LOW AND HIGH WIND SPEED

3B





GROUND BASE HELIX ANCHORAGE

* COURDINATE WITH LOCAL CODES/ORD. REGARDING MINIMUM FROST DEPTH REQ.

(CAN BE USED FOR ASPHALT)

3A

CONCRETE MONOLITHIC SLAB **ANCHORAGE** BASE RAIL

SCALE: NTS MINIMUM ANCHOR EDGE DISTANCE IS 4' * COORDINATE WITH LOCAL CODES/ORD.
REGARDING MINIMUM FROST DEPTH REQ.

GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN ON MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF.

CUNCRETE

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 BARS SHALL BE PER ACI-318 3 INCHES 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 INCHES ELSEWHERE.

REINFORCING STEEL:

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM AGIS GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 DR FIBERGLASS FIBER REINFORCEMENT.

REINFURCEMENT 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 INCH EMBEDMENT.
- 2. FOR CORAL USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT.
- 3. FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT.
- 4. FOR LODSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL USE MINIMUM (2) 6' HELICES WITH MINIMUM 50 INCH EMBEDMENT.
- 5. FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL USE MINIMUM (2) 8' HELICES WITH MINIMUM 60 INCH EMBEDMENT.



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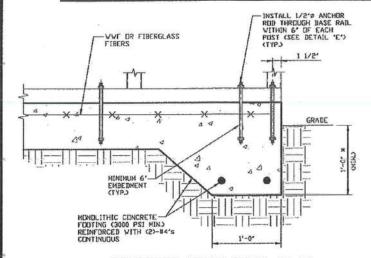
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	CLIENT: TBS	SHT. 9	DWG. NO: SK-3		REV. 5	-		
_	PROJECT MGR: WSM	DATE: 1-8-21	SCALE NTS		ND 16022S/ 00S/20352S	_		
	CHECKED BY: PDH	LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING		ING EXP, B	_			
	DRAWN BY: JG	63	631 SE INDUSTRIAL CIRCLE					

OPTIONAL FOUNDATION ANCHORAGE FOR LOW AND HIGH WIND SPEED



30

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE

SCALE: NTS MINIMUM ANCHOR EDGE DISTANCE IS 1 1/2' * COURDINATE WITH LUCAL CODES/DRD. REGARDING MINIMUM FROST DEPTH REQ.

GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN ON MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF.

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 BARS. SHALL BE PER ACI-318:
3 INCHES 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 INCHES ELSEWHERE.

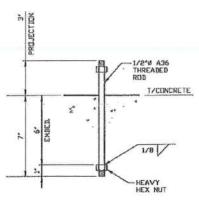
REINFORCING STEEL

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.

REINFORCEMENT 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.



ANCHOR ROD THROUGH BASE RAIL DETAIL

SCALE: NTS



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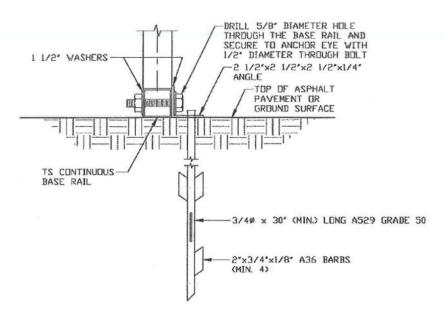
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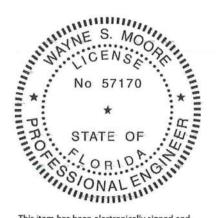
	CLIENT: TBS	SHT. 9A	DVG. NO: SK-3		REV. 5	
-	PROJECT MGR: WSM	DATE: 1-8-21	SCALE) NTS		ND 16022S/ 00S/20352S	
	CHECKED BY: PDH		AKE CITY, FLOI '-0" ENCLOSED			
	DRAWN BY JG	63	BULAR BUILDIN	AL CIR	CLE	

BASE RAIL ANCHORAGE OPTION



ASPHALT BASE ANCHURAGE (HP 9 BARBED DRIVE ANCHUR)

SCALE: NTS
(CAN BE USED FOR ASPHALT)
* COURDINATE WITH LOCAL CODES/ORD.
REGARDING MINIMUM FROST DEPTH REQ.

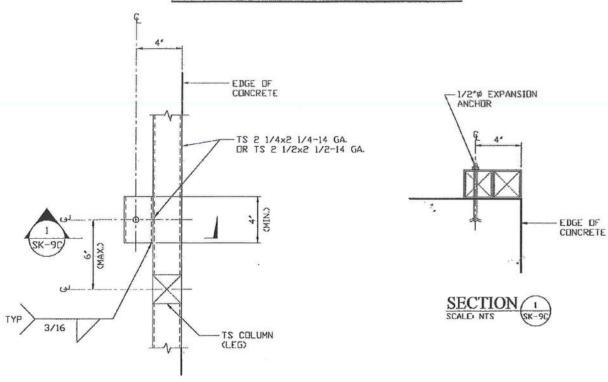


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MOORE AND ASSOCIATES	DRAWN BY JG	63	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE					
ENCINEEDING AND CONGULTING INC	CHECKED BY: PDH		AKE CITY, FLOR '-0" ENCLOSED B	IDA 32025 UILDING EXP. B				
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BASE RAIL ANCHORAGE OPTIONS



TYPICAL ANCHUR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS



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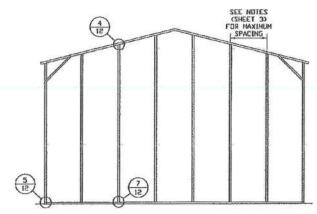
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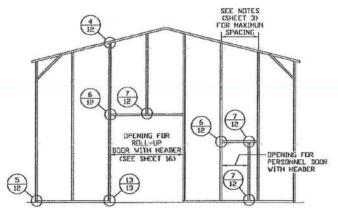
	DRAWN BYI JG	63	BULAR BUILDIN BI SE INDUSTRIA	AL CIR	RCLE
	CHECKED BY: PDH		AKE CITY, FLOR '-0" ENCLOSED		
-	PROJECT MGR: WSM	DATE: 1-8-21	SCALE: NTS		ND: 160225/ 005/203525
	CLIENTI TBS	SHT. 9C	DWG. NO SK-3		REV. 5

BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



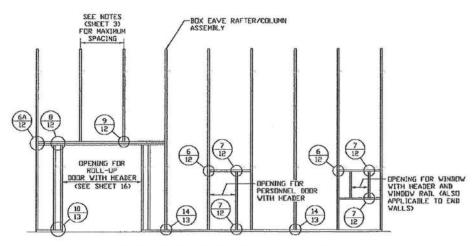
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



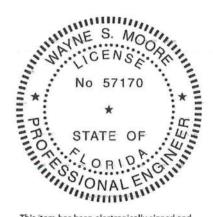
TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS



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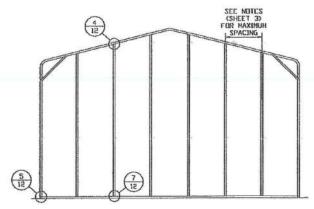
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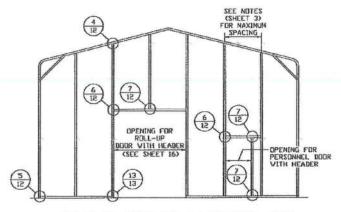
	DRAWN BY: JG CHECKED BY: PDH	— 63 L	BULAR BUILDIN 11 SE INDUSTRI AKE CITY, FLOI 1-0" ENCLOSED	AL CIR RIDA 3	RCLE 32025			
_	PROJECT MGR: VSM	DATE: 1-8-21	SCALE: NTS		ND: 16022S/ 00S/20352S			
	CLIENT) TBS	SHT. 10	DVG. ND: SK-3		REVA 5			

BOW RAFTER END WALL AND SIDE WALL OPENINGS



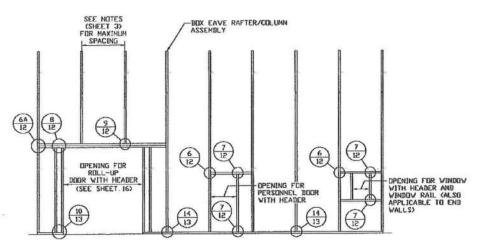
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS



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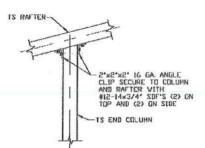
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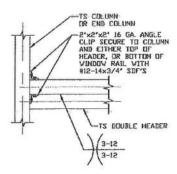
	CHECKED BY: PDH	LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXF				
_	PROJECT MGR: WSM	DATE: 1-B-21	SCALE: NTS		008/203528	_
	CLIENT: TBS	SHT. 11	DWG. NO: SK-3		REVA 5	_

CONNECTION DETAILS

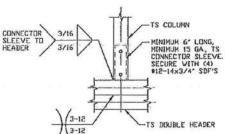


END COLUMN/RAFTER CONNECTION DETAIL

SCALE: NTS



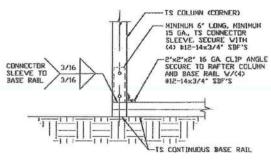
DOUBLE HEADER TO COLUMN CONNECTION DETAIL SCALE: NTS



6A

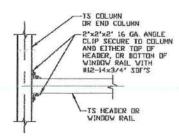
9

COLUMN/DOUBLE HEADER CONNECTION DETAIL SCALE: NTS



END COLUMN/BASE RAIL CONNECTION DETAIL

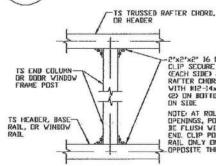
SCALE: NTS



HEADER OR WINDOW RAIL TO COLUMN CONNECTION DETAIL

SCALE: NTS

6

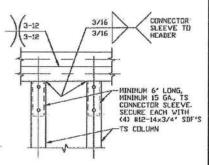


2'x2'x2' 16 GA. ANGLE CLIP SCURE TO COLUMN (EACH SIDE) AND RAFTER CHURD/RAIL. VITH HI2-14x3/4' SDF'S (2) UN BOTTOM AND (2) UN SIDE

ON SIZE

NOTE: AT ROLL-UP DOOR
OPENINGS, POST SHOULD
BE FLUSH WITH RAIL
END. CLIP POST TO
RAIL ONLY ON SIDE
OPPOSITE THE OPENING.

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



DOUBLE HEADER/COLUMN CONNECTION DETAIL 8



No 57170

*

BY STATE OF

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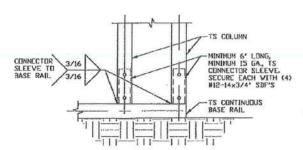
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TUBULAR BUILDING SYSTEMS DRAWN BY JG 631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP, B CHECKED BY PDH JOB NO 160225/ PROJECT MGRI WSM SCALE NTS DATE: 1-8-21 173005/203525 SHT. 12 DWG. NO SK-3 REV. 5 CLIENT: TBS

CONNECTION DETAILS



3/16

TS RODF RAFTER

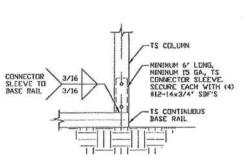
TS CHORD

TS ROOF RAFTER
TS COLLAR TIE 3.

10 COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS

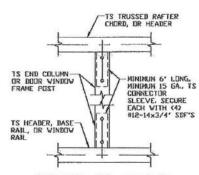
RAFTER TO CHORD CONNECTION DETAIL
SCALE NIS

12 COLLAR TIE CONNECTION DETAIL



COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS

13



COLUMN TO HEADER, BASE RAIL CONNECTION DETAIL SCALE: NTS

14

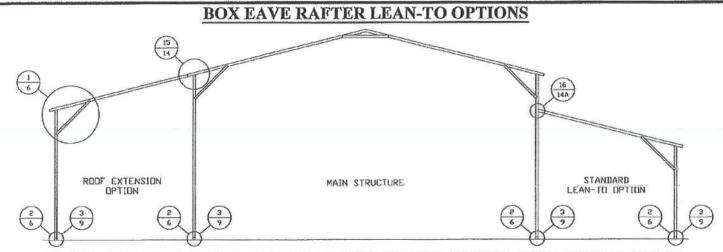
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	DRAWN BY: JG	63	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025				
	CHECKED BY: PDH		'-0" ENCLOSED				
-	PROJECT MGR: WSM	DATE: 1-8-21	SCALE: NTS		ND: 160225/ 005/203525		
	CLIENT: TBS	SHT. 13	DWG. NO: SK-3		REV.: 5		



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

SCALE: NTS

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE LACED COLUMNS FOR EAVE HEIGHTS 16'-0' (TO \(\) 20'-0'.

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS 13'-0' (12'-0' FOR HIGH WIND) (TO \(\) 16'-0".

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS 10'-0' (TO \(\) 13'-0' (12'-0' FOR HIGH WIND) (WITH 4'-4' INSERT).

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS \(\) 10'-0'.

KNEE BRACES MUST BE 4'-0' (5'-0' FOR HIGH WIND) WHEN LEAN-TO'S ARE ADDED.

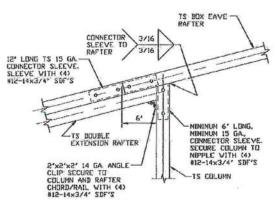
IZ' LONG TS 15 GA

CONNECTOR SLEEVE
SCUIRE COLUMN TO
SLEEVE VITH (4)
B12-14x3/4' SDF'S

HININGIM 6' LONG,
MININGIM 6' LONG,
MININGIM 15 GA,
CONNECTOR SLEEVE,
SECURE COLUMN TO
NIPPLE VITH (4)
B12-14x3/4' SDF'S

SIDE EXTENSION RAFTER/COLUMN DETAIL FOR RAFTER SPANS < 15'-0'

SCALE: NTS



SIDE EXTENSION RAFTER/COLUMN DETAIL FOR RAFTER SPANS 15'-0" < TO < 24'-0"

SCALE: NTS

No 57170

*

STATE OF

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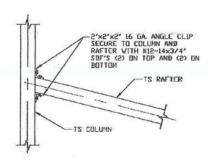
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	CLIENT: TBS	SHT. 14	DVG. NO: SK-3	- Avenue	REV≥ 5	
-	PROJECT MGR: WSM	DATE: 1-8-21	SCALE) NTS		ND 16022S/ 00S/20352S	
	CHECKED BY: PDH		AKE CITY, FLOI '-0" ENCLOSED			
	DRAWN BYI JG	631 SE INDUSTRIAL CIRCLE				

BOX EAVE RAFTER LEAN-TO OPTIONS

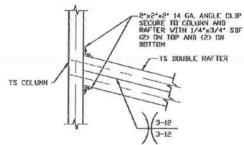
16A

SCALE: NTS



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS (15'-0'

16 SCALE NTS



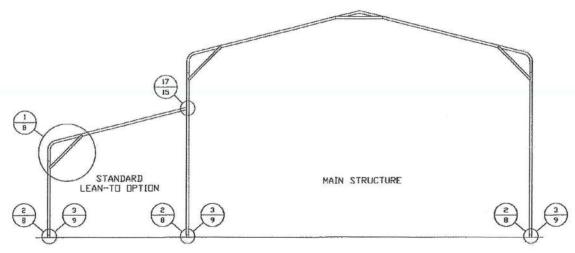
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 15'-0" < TO ≤ 24'-0"

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	CHECKED BY: PDH	LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B					
	PROJECT MGR: WSM	DATE: 1-8-21	SCALE: NTS	JDB ND 16022S/ 17300S/20352S			
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BOW RAFTER LEAN-TO OPTIONS



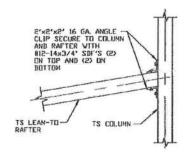
BOW RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN) TYPICAL

SCALE: NTS

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS 13'-0' (12'-0' FOR HIGH WIND) < TO < 16'-0'.

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS 10'-0' < TO < 13'-0' (12'-0' FOR HIGH WIND) (WITH 4'-4' INSERT).

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS (10'-0') < TO < 10'-0'. MAIN BOLDING CELOWINS WITH CENTETT OF REEF EXTENSION ATTRICED ARE REGOT EAVE HEIGHTS ≤ 10'-0'. KNEE BRACES MUST BE 4'-0' (5'-0' FOR HIGH WIND) WHEN LEAN-TO'S ARE ADDED.

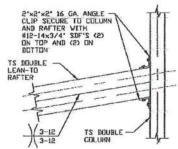


LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS

≤ 15'-0"

SCALE: NTS

17



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 15'-0" < TO ≤ 24'-0"

SCALE: NTS



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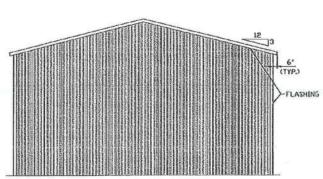
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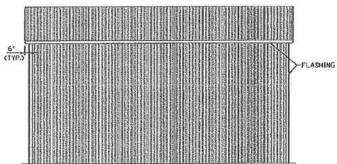
DRAWN BY: JG CHECKED BY: PDH	63	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B				
PROJECT MGR: WSM	DATE: 1-8-21	SCALE NTS	JOE	8 ND 160225/ 005/203525		
CLIENT: TBS	SHT. 15	DAG VO 2K-3		REV. 5		

BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



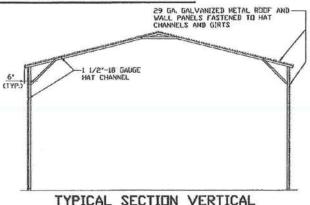
TYPICAL END ELEVATION
VERTICAL ROOF/SIDING OPTION

SCALE: NTS



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS

SEE NOTES

GSHEET 3)
FOR MAXIMUM
SPACING

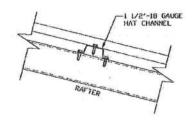
1 1/2'-18 GAUGE HAT CHANNEL SPACED AT
VITH (2) 812-14x3/4' SDF'S

(TYP.)

TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS

NOTE: TS WALL GIRTS CAN BE USED AS AN OPTION IN PLACE OF HAT CHANNELS. TS GIRTS MUST BE SPACE AT 4'-0' (MAX.) D.C.



ROOF PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS) SCALE: NTS



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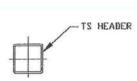
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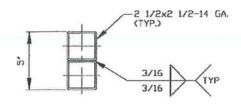
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	CHECKED BY PDH	LAKE CITY, FLORIDA 32025						
-	PROJECT MGR: WSM	DATE: 1-8-2L	SCALE NTS		ND 160225/ 005/203525			
3	CLIENT: TBS	SHT. 16	DVG. NO SK-3		REV. 5			

SIDE WALL HEADER OPTIONS



HEADER DETAIL FOR DOOR OPENINGS ≤ 10'-0"

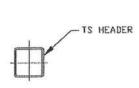
SCALE: NTS



HEADER DETAIL FOR DOOR OPENINGS 10'-0" < LENGTH ≤ 15'-0"

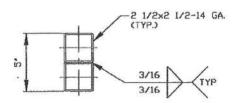
SCALE: NTS

END WALL HEADER OPTIONS



HEADER DETAIL FOR DOOR OPENINGS ≤ 12'-0'

SCALE: NTS



HEADER DETAIL FOR DOOR OPENINGS 12'-0" < LENGTH ≤ 15'-0"

SCALE: NTS



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CLIENT, TBS	SHT. 17	DVG. NO: SK-3		REV. 5

FLOOD VENT DETAIL FRAME OPENING FOR FLOOD VENT WITH TS 2 1/2" x2 1/2" MEMBERS (MATCH ADJACENT RAFTER POSTS AND BASERAIL) 1/2"-18S OR F EXPANDED METAL, ATTACH W/ McNICHOLS SQUARE FASTENERS OR APPROVED EQUAL AT 6" D.C. ATTACH W/ METAL TEK SCREWS. TS POST (MIN. I TS BASE RAIL GRADE GRADE

TYPICAL FLOOD VENT DETAIL SCALE: NTS

- MINIMUM VENT SPACE REQUIRED = 1 SQ. INCH OF OPEN VENT AREA PER SQ. FOOT OF BUILDING AREA.
- 2. THERE SHALL BE A MINIMUM OF TWO OPENINGS ON DIFFERENT SIDES FOR EACH ENCLOSED BUILDING.
- 3. APPLY 1.3 FACTOR WHEN CALCULATING TOTAL OPEN AREA WHEN USING 1/2"-18GA S OR F EXPANDED METAL.
- 4. TOTAL OPEN AREA OF VENT = LxH(MIN. 12").
- 5. FLOOD VENT DETAIL COMPLIES WITH FEMA/NFIP.
- PREFABRICATED FLOOD VENTS MEETING THE REQUIREMENTS OF FEMA/NIFIP MAY BE USED.

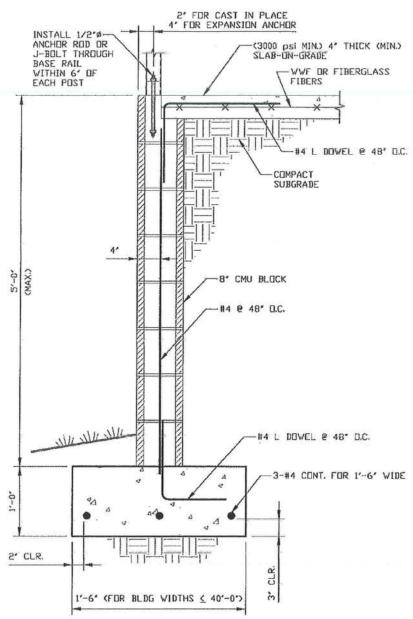


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STAND -ALONE STEM WALL DETAIL



STAND-ALONE CONCRETE MASONRY UNIT (CMU) FOUNDATION STEM WALL DETAIL

SCALE: NTS



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