

# STRUCTURAL DESIGN

# ENCLOSED BUILDING EXPOSURE B

# MAXIMUM 30'-0" WIDE X 20'-0" EAVE HEIGHT- BOX EAVE FRAME AND BOW FRAME

29 July 2021 Revision 6 M&A Project No. 16022S/17300S/20352S

Prepared for:

Tubular Building Systems, LLC 631 SE Industrial Circle Lake City, Florida 32025

Prepared by:

Moore and Associates Engineering and Consulting, Inc. 1009 East Avenue North Augusta, SC 29841

> 401 S. Main Street, Suite 200 Mount Airy, NC 27030







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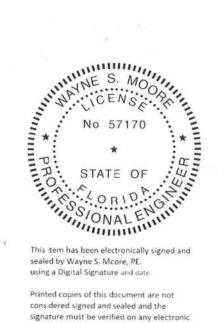
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MOORE AND AS ENGINEERING AND C	SSOCIATES ONSULTING, INC.		N BY: JG	30'-0"x20'-0	JLAR BUILDING D" ENCLOSED BI E SEAL COVER	JII.DING EXP. B
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- BIM BULLER FEWART DISTIBLE
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- THINA. DITE HEALES
- STAND ALONE STEW WALLS IN TALL
- VERTICA SIDDING WINDOW DETAIL



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CHECKED BY: PDH	1.7	AKE CITY, FLOR	IDA 3	32025
PROJECT MGR: VSM	DATE: 7-29-21	SCALE: NTS		ND: 16022S/ 00S/20352S
CLIENT: TBS	SHT. 2	DVG. ND: SK-3		REV. 6

### INSTALLATION NOTES AND SPECIFICATIONS

- 1 DESIGN IS FOR A MAXIMUM 30'-C' WIDC x 20'-O' EAVE HEIGHT ENCLOSED STRUCTURES
- 2 DESIGN WAS DUNE IN ACCORDANCE WITH THE 2020 FLURIDA BUILDING CODE (FBC) 7TH EDITION, 2012 INTERNATIONAL BUILDING CODE (FBC) 2015 18C. AND 2018 18C
- 3 DESIGN LOADS ARE AS FILLINGS.
  A) DEAD LOAD 15 PSF
  B) LIVE LOAD = 12 PSF
- C) GROUND SNIN LINAD = 10 PSE
- LOW ULTIMATE WIND SPEED 105 TO 140 MPH INDMINAL WIND SPEED 91 TO THE METE MAXIMUM SAFTERZEDS. AND END POST
- HIGH CETHATE WIND SPEED 141 TO 170 MPH (NOMINAL WIND SPEED 100 LD LDS MPH), MARINUM 94- 'ERPROST AND END POST SPACING = 40 FEET
- E END WALL DO MAS CRITES AND SIDE WALL CEURAS ARE LOUIVA INT IN SIZE AND SPACING CENTERS ALILE WHILRWIST
- 7 -4 K (A 1 1 R / 1
- B WIND EXPLICIPLE CALL MINY B
- CONCIDENT APPER ASEA DITTOLISMENT METAL PANELS HAS ENDED DINEFFLY LICE LYPE 2 1/29 14 DALGE LERG STEEL STO BRAMEN. MEMBERS FOR VERY TEAL PANELS, 20 LAUGE METAL PANELS STALL OF FASTINED LITERATURE STEEL PANELS.
- ST MATER THE LEWIS CONT. IN SERVED WIND ONLICES THE STATEMENT AND LOSS STATEMENT OF BEING READER OF THE PARTY.
- THE PART WE AREA TO SERVICE THE RESERVOY OF A BREATHAND LATTERNE ASSET OF A COMPANIES OF A COMPANIES AS A CONTRACT OF THE PART OF THE PART
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- STANDARD DETAILS AND DE LAN VALUE DENSIGHTE MA RUBAR WAVELHED AND A DETAIL OF THAT THE TIME HERE AND MAKE THE TIME AND REPORT OF THE AND AND THE TIME AND
- MIND LIBERY STATES CASTS REPORTED BELLIAL BARAMETERS WARFATTE WAS FIRE TALL THAT 501- 1839 0



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PROJECT MGR: VSM	DATE: 7-29-21	SCALE: NTS	JDB ND: 16022S/ 17300S/20352S	
CLIENT: TRS	SHT. 3	DVG. ND: SK-3	REV. 6	

# BOX EAVE FRAME RAFTER ENCLOSED BUILDING

RDLL-UP DOOR (AS APPLICABLE) HEXIN PRESSURE LOW - (00 PST, 20 9 PST) HISH = (276 PSF - 312 PSF)

(145)

CAS APPH (CAB\_E)
DESIGN PRESSURE
LEV = 1882 PSF -198 PSF;
HEH = 1872 PSF -297 PSF;

FLASHING

ALON = (18) 625 -314 625 DESIGN 68525085 ALON = (18) 625 -314 625 ALON = (18) 625 ALO

# TYPICAL END ELEVATION

# TYPICAL SIDE ELEVATION

BOW FRAME RAFTER ENCLOSED BUILDING

MAXIMUM PAP

(A) A71 (FAS )
DESIGN FF (SUR)

\* M + 383 FF + 333 FF + 333 FF + 337 FF

PERS NAV BEER (AS APP LAGE ) DESLAY PRESSUR (LD - 27 357 49 9 %) (LD - 27 357 29 7 %)

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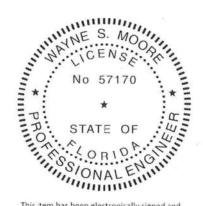
ANKINIA SU

## TYPICAL END ELEVATION

VINDLY (AT ADD TAR : F TO A DECISION LOW 109 PAR : (7 ACT) LOW 1286 PW -2013 No.

SPACE STORY AS EXPLOSED AND SPACE

## TYPICAL SIDE ELEVATION



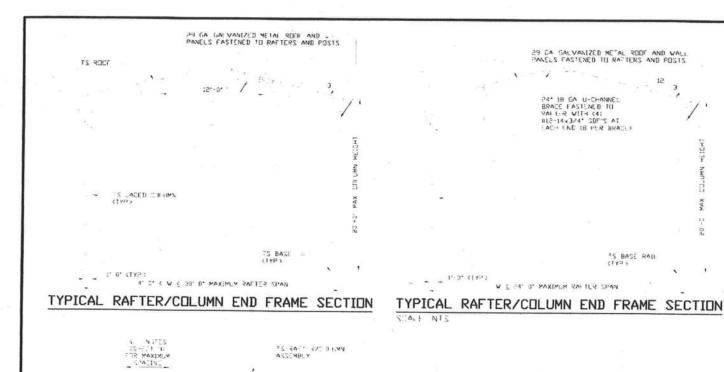
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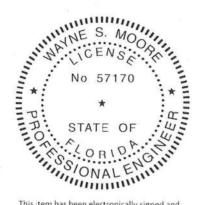
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CHECKED BY: PDH		AKE CITY, FLOR -0" ENCLOSED F		
PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS	ND: 16022S/ 0S/20352S	
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TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



COLUMN HEIGHT

MAX

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29 SA SALVANIZED METAL ROOF AND ...
PANELS FASTENED TO RAFTERS AND PUSIS

1 1400

IS ROOF RAFTER

29 SA GALVANIZED METAL RUB AND WALL PANELS FASTENED TO RAFTERS AND POSTS

24' 18 SA U-CHANNEL BRACE FASTENED 'G RACTER WITH (4) #12-(4x3/4' SUP'S AT EACH ENE (8 PER BRACE)

IS BASE RAD

(TYP)

24' 0' C W & 30"-0" MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN END FRAME SECTION SCALL NIS

W C P4"-3" MAXIMUM RAFTER SPAN TYPICAL RAFTER/COLUMN END FRAME SECTION

NMUJECZŚĘTĘKŚ 21 AJBMEZZA

TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



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PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS		ND: 16022S/		
CLIENT: TBS	SHT. 5A	DWG. ND: SK-3		REV. 6		

20 GA GALVANIZED METAL ROUF AND WALL PANELS FASTENED TO RAFTERS AND PESTS

29 GA GALVANIZED METAL ROOF AND WALPANELS FASTENED IN RAFTERS AND POSTS

TS BASE RAIL

EACH END (8 PER BRACE)
BRACE FASTENED TO
BRACE FASTENED TO
BRACE FASTENED TO

GELUMN FEIGHT GEORT FOR HAZ

TS BASE RALL

24' 3' 4 W 4 33' 6" MAXIMUM RAFTER SPAN

# TYPICAL RAFTER/COLUMN END FRAME SECTION

TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE NTS

TS RAFTER/COLUMN ASSEMBLY

# TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



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IS ROOF RAFTER

3/16 3/16

SLEEVE TO

SECURE WITH
(4) #12-14x3/4\*
SOF'S (EACH END)

#IP-I4x1/4" SDF'S (TYP)

3/16

IB GA U CHANNEL BRACE FASTENED ID 14E COLUMN AND RAFTER

3/15

BASE EAD 3/15

RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 16'-0' < TO < 20'-0'

BRACE SECTION SCALE: NTS



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CLIENT: TBS	SHT. 6	DVG. NO SK-3		REV. 6	

1114 37U32 (4) #12-14x3/4\* (0/1 H2A3) 2-702

CONNECTOR SCEEVE TO RAFTER (TYP)

3/16

#IS-14×3/4, ZTC.Z ZECRE ALH (4) CONVECTOS ZEEAE WINIAMA 12 GV

3-12

1

3 15

3 15

3716

2

MINIMUM 6" LONG CONNECTOR SLEEVE MINIMUM 15 GA. SECURE WITH (4) 12-14×3/4" SG: N

TS CONTINUEUS BASE RAIL

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 13'-0" < TO ≤ 16'-0"

DELLMN HEISTIS 12'-3' < TO < 15' 3" FOR HIGH WIND

RAFTER COLUMN/BASE RAIL CONNECTION DETAIL SCALE N'S

BRACE SECTION



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DWG. NO SK-3

REV. 6

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CLIENT: TBS

SECURE WITH

SETS GACH END

IS RILE RAFT

CONNECTOR 3/16

SI EEVH

TO RAFTER 3/16

MINIMUM 15 5/A.

CONNECTOR SLEEVE

SECURE WITH (4)

AND SECURE WITH

SETS GACH END

13 RILE RAFT

AND SECURE WITH

SET 14×3/4\* SETS

SET 14×3/4\* SETS

SECURE WITH

SET 14×3/4\* SETS

SET 14×3/4\* SET 14×3/4\* SET 14×3/4\* SET 14×3/4\* SET

CONNECTOR 3/16
SLEVE 3/16
SLEVE 3/16

SECURE WITH
(4) BIZ-14x3/4\*
SUF'S (FACH END)

MINIMUM 15 GA.
CUNNECTOR SLEEVE
SECURE WITH
(4) BIZ-14x3/4\*

III DA U-CHANAE BRACE
FASTENED TO THE COLUMN
AND RAFIER

BOX EAVE RAFTER COLUMN CONNECTION DETAIL

FOR HEIGHTS 

ALL NTS

TS 2 1/4'x2 1/4'-14 SA REINFORCINS SECURE WITH RE2-14-3/4' SDE'S 2 B' 10 MAX DV BOTH SIDES OF DOLLARS

TS 2 [74"x2 ]74"-]4 GA

BRACE SECTION

BOX EAVE RAFTER COLUMN CONNECTION DETAIL

FOR HEIGHTS 10'-0' < TO < 13'-0'

SLEEVE TO BASE RAU 3/15 VIVIMUM 6: LENG CONNECTUR SLIEVE MINIMUM 15 GA. SECURE VITH (4) BIZ-14×3/4\* SDF'S TS CONTINUOUS BASE RAIL

RAFTER COLUMN/BASE RAIL CONNECTION DETAIL



IND (3 DES BRACE) BIG-144/2/4, SELEY OF EACH LASIENED ID THE EDITION MIN STONE SALES MILH (4) BIG-144/2/4, SELEY LASIENED ID THE EDITION

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PROJECT MGR: VSM	DATE: 7-29-21	SCALE: NTS		8 ND: 16022S/
CLIENT: TBS	SHT. 6B	DVG. NO SK-3		REV. 6

PANCES FASTEVED TO RAFTERS AND POSTS

F 11 449 3009 21

PARELS FASTERED TO BEFFRE AND POSTS

24" IB SA U CHANNEL BRACE FASTENED TO RAFTER WITH (4) BI2-14×3/4" SDF'S AT EACH END (8 PER BRACE)

N.

g MAX

TS BASE

TS BOURLE COLUMN

IS BASE RAI

24"-3" ( W & 36" 6" MAXIMEM PAFTER SPAN

TYPICAL RAFTER/COLUMN END FRAME SECTION

TYPICAL RAFTER/COLUMN END FRAME SECTION

W C 24'-0" MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



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JDB ND: 160225/ PROJECT MGRI WSM DATE: 7-29-21 SCALE: NTS 173005/203525 SHT. 7 CLIENT: TBS DWG. NO SK-3 REV. 6

29 GA SALVANIZED METAL ROOF AND WALL PANELS FASTENED TO RAFTERS AND POSTS

29 GA GALVANIZED METAL ROOF AND ...
PANELS FASTENED 13 RAFTERS AND POSTS

IS COLLAR

24" IB SA U CHANNEL BRACE FASTENED TO RAFTER VIEW (4) BIZ-14×3/4" SDE'S AT EACH END (B PER BRACE)

TS COLUMN

₫ŧ.

TS CILLEN (TYP)

('YP)

24 3" E W & 30" C" MAXIMUM RAFTER SUAN

W & 24" U' MAXIMUM RAFTER SPAN

# TYPICAL RAFTER/COLUMN END FRAME SECTION

TYPICAL RAFTER/COLUMN END FRAME SECTION

TS RAFTE EXCILLIMN ASSEMBLY

TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



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SECUR: VIT4 (4) H12-14x3/4" SDF'S (LACH END)

VGB 21

NO SCREWS REQUIRED IN

MINIMUM 6" LONG MINIMUM 15 GA. CONNECTOR SCEEVE SECURE WITH (4) #12-14x3/4" SDF'S

/3-15

1

1-5

3/16

IS DOUBLE COLLINS

MINIMUM 6' L'ING, CONNECTOR SLEEVE MINIMUM 15 GA. SECLRE WITH (4) 412-14×3/4' SDF'S

IS CHNTINGIUS BASE RAIL

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 13'-0" T□ < 16'-0"

RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

BRACE SECTION



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PROJECT MGR: WSM DATE: 7-29-21 SCALE: NTS SHT. 8 CLIENTI TBS DWG. NO SK-3

JUB ND: 16022S/ 17300S/20352S

REV. 6

SECURE VITH (4) HIZ-14×3/4\* SEF'S SEACH END)

> THE GA U-CHANNEL BRACE FASTENED TO THE COLUMN AND RAFTLE

ALTH (91 #IS 14×3/4, 205.2 69: 158 WHI COLTWN 19 271) AE CONVECTION 271: AT 250187 BOX HINGNIM 9, 1090 WINIMOM 12 CV

TE BOW RAFT

NU SCREWS REQUIRED IN BOW END

•

1A

REQUIRED IN BOY END

> SECURE VITH (4) HIZ-14×3/4\*

18 GA U-CHANALL BRACE FASTENED THE COLUMN

MINIMUM 6" SECURE WITH (4) SECURECT IN SEEL VE MINIMUM 15 CA

•

e comme

12

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

1B

15 2 17412 1741-14 16 FIRE DRING SECURITY MUST ALP 14-2741 SECURITY MUST

15 3 174\*x3 174\* 16 3A COLUMN INSERT

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO ≤ 13'-0" 18 5A 11 TIANNE BRATTAND HIP A RACES

AND SHIP AS A RACES

AND SHIP A RACES

TO SHIP A RACES

BRACE SECTION

MINIMUM 6" LING-LINNECTICN SLEEVE MINIMUM 13 GA 5-CROSE VID-1 (4) B12-14×3/4" 516 'S B12-14×3/4" 516 'S B15-CROSENOFICS BASE RAIL

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DVG. NO SK-3

REV. 6

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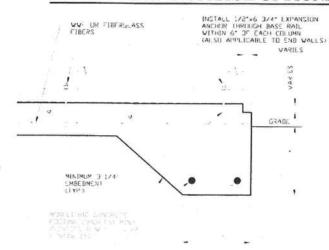
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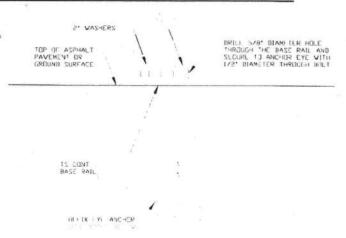
| TUBULAR BUILDING SYSTEMS | 631 SE INDUSTRIAL CIRCLE | 1 AKE CITY, FLORID A 32025 | CHECKED BY PDH | 30-0"\20-0"\

SHT. BA

CLIENT: TBS

# BASE RAIL ANCHORAGE OPTIONS FOR LOW AND HIGH WIND SPEED





### CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE 3A

MINER MERCHANT, IN TELEVISION IN AN

# GENERAL NOTES

NUTE CONCRETE MENCH THE STAB DESIGN ON MINIMUM SELE. BEARING CAPACITY OF 1000 PST

### CONCRETE

CLASS BRADE COURT AS DAYS A HARRY STANDARD STANDARD OF THE STA

# COVER OVER REINFORCING STEEL!

FUR FUNDATIONS, MINIMUM CLASPETE SUVER OVER BEINGURSING BARS SHAFE BE PER AST BIR BILLIONS WHERE THE SOMERE LIS CAST ASAINST AND PERMANENTY IN CHINICAL WITH THE EARTH DR EXPLISED FOR THE LARTH OR WEATHER, AND I LIP TYPIS

## REINFORCING STEEL:

THE TURNOOWN REINFORCING STEEL SHALL BE ASTM AGID CRADE 50 THE SLAB REINFORCEMENT SHALL BE WELFILD WIRE FARRIC MEETING ASIM A183 TR FIBERGLASS FIBER REINFORCEMENT

## REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

I REINFORCEMENT IS BENT OF B P THE BIAM THE OF THE BEAD MEASURED IN THE INCIDE OF THE BAP, IS NOT LESS FROM SIX BAR DIAMETERS 3 REINFORCEMENT PARTIALLY EMBEDDED IN STACKET SHALL NOT

BE FRIII BEAT

# HELIX ANCHOR NOTES:

- THE VERY DENSE AND/OR CEMENTED SAMES CHARSE GRAVEL AND CERBLES (A CHEFT PRET TABLE SET'S AND CLAYS USE A (2) 4" HELICES WITH MINIMAM 3C INCH EMBEDMEN."
- S FOR CLEAR USE MINIMUM (S) 4" HELICES WITH MINIMUM 30 INCH
- 3 FUR MEDIUM DENSE CHARSE SANDS, SANDY GRAVELS VERY STIFF STEES, AND CLAYS USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT
- 4 FOR LITTLE TO MEDIUM DENSE SANCS, FIRM THI STIFF CLAYS AND SILTS ALLOVIAL 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

### GROUND BASE HELIX ANCHORAGE 3B



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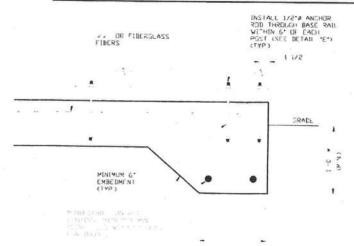
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-	PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS	JDB ND: 16022S/ 17300S/20352S			
	CLIENT: TBS	SHT. 9	DVG. ND: SK-3	REV. 6			

# OPTIONAL FOUNDATION ANCHORAGE FOR LOW AND HIGH WIND SPEED



### CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE 30

ADMENIAL AND RESERVED TO SELECT THE SECOND S

# GENERAL NOTES

NOTE CUNCRETE MUNCLITHIC SLAB DESIGN ON MINIMUM SOIL BEARING CAPACITY DE 1.500 PSF -

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH DE 3.000 PSI A' 28 0475

### COVER OVER REINFORCING STEEL!

FOR FOUNDATIONS, MINIMUM CONCRETE SEVER EVER REINFERGING BARS SHALL BE PER ACT-318
3 INCHES IN FOUNDATIONS WHERE THE CUNCRETE IS CASE AGAINST AND PERMANENTLY IN CONTACT WITH THE FARTH IN EXPOSED TO THE EARTH OR WEATHER, AND I IZZ INCHES ELSEWHERE

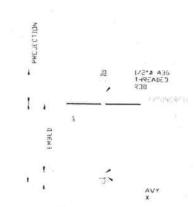
# REINFORCING STEEL

THE TURNDOWN REINFURCING STEEL SHALL BE ASTM AGES GRADE 60 THE SLAB REINFURCEMENT SHALL BE WELDED WIRF HABRIC MEETING ASTM AGES OR FIBERS ASS FIBER REINFURCEMENT

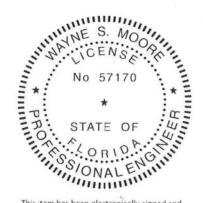
# REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED

REINFERCEMENT IS BENT COLD
THE DIAMETER OF THE BEND MEASURED ON THE INSIDE OF THE
BAR, IS NOT LESS THAN SIX-BAR DIAMETERS
REINFERCEMENT PARTIALLY EMBELLED IN CHARGETE SHALL VET

BE FIELD BEN



ANCHOR ROD THROUGH BASE 3D RAIL DETAIL



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SHT. 9A DWG. NO SK-3 CLIENT: TBS REV. 6

# **BASE RAIL ANCHORAGE OPTION**

28 H-2AV \*S\1 I

DRILL 5/8' DIAMETER HULF THROUGH THE BASE RAIL AND SECURE TO ANCHOR EYE WITH 1/2' DIAMETER THROUGH BOLT 2 1/2'x2 1/2'x2 1/2'x1/4' ANGLE

PAVEMENT OR GREUND SURFACE

- 3/40 x 33" (MIN) LENG 4529 (PADE 5.)
- 2\*x3/4\*x1/3\* A33 BARBS (MIN 4)

3E ASPHALT BASE ANCHORAGE (HP 9 BARBED DRIVE ANCHOR)

AN SHIP LAD FOR ASPENDEN

CARRENTS AND FOR ASPENDENCE AND FOR ASPENDENCE

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PROJECT MGR: WSM	DJECT MGR: WSM DATE: 7-29-21			JDB ND: 16022S/ 17300S/20352S			
CLIENTI TBS	SHT. 98	DVG. ND: SK-3		REV. 6			

# **BASE RAIL ANCHORAGE OPTIONS**

FOSE OF CONCRETE

1/2'# FXPANSIUN ANCHOR

TS 2 1/4x2 1/4 14 GA OR TS 2 1/2x2 1/2-14 GA

<u>`</u>

SECTION (1)

לאל

TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE



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REV.I 6

DWG. NID SK-3

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SHT. 9C

CLIENT: TBS

# BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS

27TCM 332 (C T33H2) MIMIXAM 9C7 SEE NOTES (SHLET 3) FOR MAXIMUM

OTTH SEC SHEET 160\*

PERSONNEL DOOR

# TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

231EN 1.2 WWKIXAN SI 271CN-2 271CN-2

WE SAFTERKE LINE

TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

21V JJAC2

TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION



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CLIENT: TBS	SHT. 10	DVG. ND SK-3		REV.I 6			

# BOW RAFTER END WALL AND SIDE WALL OPENINGS

SET NOTES

SEE NOTES (SHEET 3) FOR MUMIXAM FOR

RULL UP

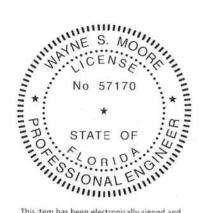
FOR PERSONNEL COOK VITH

TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

ASSEMBLA SATINGSTOWN

TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION



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	CLIENT: TBS	SHT. 11	DVG. NO: SK-3		REV. 6		

# CONNECTION DETAILS

3/16

IS WAS

2'x2'x2' 16 GA ANJLE CLIP SECLRT TE COLUMN AND RALTER VITH AND RALTER VITH CALCULATION OF THE TOP AND C2) ON SIDE

TS END COLUMN

TS COLUMN (CORNER)

MINIMUM 6' LONG, MINIMUM 15 GA TS CONNECTOR SLEEVE SECURE VITH (4) #12-14x3/4' SEC'S

#15-14×3/4, SDE.2
SECORT IN SALES CONTINUE
SECORT IN SALES CONTINUE
S.×S.×S. 12 CO COLD ANGLE

FS HEADER DR

"S COLUMN OR EVD COLUMN 2"-2"-2" IS GA ANGLE ELIP SECURE TU TOLUMN AND 11"-ER TIP D' "CADER, UR BOTTOM OF "VINITE" AND VITI-112-14-274" SDE'S

1 I'S CONTINUOUS BASE RAIL

END COLUMN/RAFTER CONNECTION DETAIL

END COLUMN/BASE RAIL CONNECTION DETAIL SCALE NIS

1

IN TRUSSED HATTER CHORE OF HEADER

HEADER OR WINDOW RAIL TO COLUMN CONNECTION DETAIL

17.6

15 CELUMY 08 - MI COLLMY PLANTAC THE COLUMN AND STEP A TOTAL F ABER 124 COLUMN AND STEP A TOTAL F ABER 124 COLUMN AND STEP A STEP I F ABER 124 COLUMN F ABER

AME DEST

6

MINIMUM & LONG, MINIMUM 15 DA. 15 DIANESTUR SCIEVE SECUR: EACH VICH (4) #12-14x374\* 50

RUTSEANCE ET SV+112 - VIDASH

DOUBLE HEADER TO COLUMN CONNECTION DETAIL COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL

SCALE VIS

DOUBLE HEADER/COLUMN CONNECTION DETAIL

1/16

COLUMN/DOUBLE HEADER CONNECTION DETAIL SCALE NIS

9

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CLIENTI TBS SHT. 12 DVG. NO SK-3 REV. 6

# CONNECTION DETAILS

MINIMUM 6" LONG MINIMUM 13 GA 13 CONNECTOR SLEEVE SECURE LACH WITH 14: MINIMUM 6" LONG MINIMUM 13 GA 15 CONNECTOR 13: MINIMUM 6" LONG

S COLUMN

15 RODE RAFTER

3/16

IS CONTINUOUS BASE RAIL

TS CHIRD 3/16

COLUMN/BASE RAIL CONNECTION DETAIL 10

RAFTER TO CHORD CONNECTION DETAIL

SETTAN B SZUST 2 S GASH SC ORCH 2

COLLAR TIE CONNECTION DETAIL

SI 113/4/ES ET 3V 12 JAS 74E

3/15 3/15

MINIMUM ST I TNS MINIMUM IS SA 19 CONNECTIAN SUBERVE STOLET BACH WITH 14: HET 1643/41 NJ.15

S AN COLUMN R BLUR WINDOW RAME FUST

MINIMUM 5" 1 INT. MINIMUM 15 5A. 15 CONNECT IS S. . VE SECURE LACT MICH 140 MICE-1440/4" 51 'S

SAL DE MINITA SAL DE MINITA

COLUMN/BASE RAIL CONNECTION DETAIL 13 SCALE AT

COLUMN TO HEADER, BASE RAIL CONNECTION DETAIL

CLIENTI TBS

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SHT. 13

# BOX EAVE RAFTER LEAN-TO OPTIONS

RUDE EXTENSION
OPTION

MAIN STRUCTURE

STANDARD FFAN-TIT (IPTION

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

SCALE: NIS

SCALE:

3716

EVAL XCE ST

IET LONG IS 15 TA
CLEWESTER SLEEVE
SECURE STEMM IS
SECURE WITH (4)
BUZ-1443/41 SDF/S

15

MINIMUM ST LANG, MINIMUM ST GA

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

TS BOX EAVE
RAFTER

37.6

37.6

37.6

37.6

37.6

37.6

37.6

37.6

37.6

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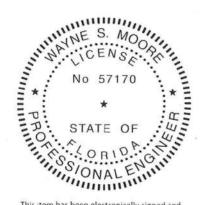
MINIMUM 5 LONG,
MINIMUM 15 GA,
CINA C'UB SLEEVE
SECLE COLUMN TO
NIPPE WITH (4)
110-1443/4\* SDF'S

111-1443/4\* SDF'S

112-1443/4\* SDF'S

SIDE EXTENSION RAFTER/COLUMN DETAIL

15A FOR RAFTER SPANS 15'-0" < TO < 24'-0"



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	CLIENT: TBS	SHT. 14	DWG. NO SK-3		REV. 6	

# **BOX EAVE RAFTER LEAN-TO OPTIONS**

2"x2"x2" 15 GA ANGLE C. IP SECURE TO COLUMN AND RAFTER WITH HIZ 14x374" SDF'S (2) ON TOP AND (2) ON BOTTOM

TS RAFTER

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

SECURE TO COLUMN AND SECURE TO

TS COLUMN

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

3-15

IGA SCALE NIS

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PROJECT N	IGR: WSM	DATE: 7-29-21	SCALE: NTS		B ND: 160225/			
CLIENT: TE	21	SHT. 14A	DVG. NO SK-3		PEV. 6			

# **BOW RAFTER LEAN-TO OPTIONS**

STANDARD

MAIN STRUCTURE

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

WALN BUILDING CHUMAS WITH LEAN-TO FER HIGH WIND) WHEN IT AMPTE'S ARE ADDED.

WHEN BUILDING CELUMAS WITH LEAN-TO BE REDE EXTENSION ATTACHES APP. REQUIRED TO BE DINGLE DELIMAS FOR MAIN BUILDING CELUMAS WITH LEAN-TO BE REDE EXTENSION ATTACHES APP. REQUIRED TO BE DINGLE DELIMAS FOR MAIN BUILDING CELUMAS WITH LEAN-TO BE REDE EXTENSION ATTACHES APP. REQUIRED TO BE DINGLE DELIMAS FOR MAIN BUILDING CELUMAS WITH LEAN-TO BE REDE EXTENSION ATTACHES APP. REQUIRED TO BE DINGLE DELIMAS FOR MAIN BUILDING CELUMAS WITH LEAN-TO BE HIGH WIND) WHEN IT AMPTE'S ARE ADDED.

P'x2'x2' 15 \_A AVGC CLIP SELEX: TO COLUMN AND RATTER VITA BIE 14-374' SELES (2) A TOP AND SP DV BOTTLEY

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

2\*42\*42\* 16 5A ANTER CLIP SECURI TO CS\_UMN AND RATER VITH-BIR-14-32\*4\* SDF'S (2) BILTON BILT

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

17A

17

CALL NE



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CLIENT: TBS	SHT. 15	DVG. ND: SK-3		REV. 6	

# BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION

- 4541V

TYPICAL END ELEVATION VERTICAL ROOF/SIDING OPTION TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SHOWNERS WE SHARE

AND BOYERS WEEKER AR HAT ONE

SHOW OF ANY CANADA SHARE ONE

TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING OPTION

TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

ROOF PANEL ATTACHMENT 197,54/915 4Eb AE4410V 9004 69V2T08

: :/:\* :3 :AL.:



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c	CHECKED BY: PDH	1./	AKE CITY, FLOI -0" ENCLOSED	RIDA 3	2025	
P	PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS	JOB NO 160225/ 173005/203525		
c	LIENT: TBS	SHT. 16	DWG. NO SK-3		REV. 6	

# SIDE WALL HEADER OPTIONS

'S HEADER

2 1/2×2 1/2-14 GA (TYP)

3/16

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

SCALF NTS

# **END WALL HEADER OPTIONS**

IS HEADER

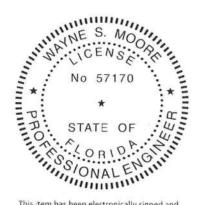
2 1/2×2 1/2-14 5A (TVP)

HEADER DETAIL FOR DOOR OPENINGS ≤ 12'-0"

STALE NTS

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

SCALE ATS



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DRAWN BY: JG		ULAR BUILDIN I SE INDUSTRI			
CHECKED BY: PDH	L.	KE CITY, FLOI 0" ENCLOSED	RIDA 3	2025	
PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS		ND: 16022S/ 00S/20352S	
CLIENT: TBS	SHT. 17	DWG. NO: SK-3		REV. 6	

# FLOOD VENT DETAIL

FRAME HIPINING FÜR HIHID VENT WITH IS 2 1/2"×2 1/2" MEMBERS (MATCH ADJACENT RAFTER POSTS AND BASERAIL)

1/2"-18S OR F
EXPANDED METAL ATTACH
W/ McNICHOLS SQUARF
FASTENERS OR APPROVED
EQUAL AT 6" OC ATTACH
W/ METAL TEK SCREWS

TS POST

TS BASE

SIIVE GRA

TYPICAL FLOOD VENT DETAIL

No 57170

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B. STATE OF

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DRAWN BYI JG	BY: JG 1UBULAR BUILDING SYSTEM 631 SE INDUSTRIAL CIRCLE					
CHECKED BY: PDH		AKE CITY, FLOR -0" ENCLOSED E	IDA 32025 BUILDING EXP. B			
PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS	JOB NO 16022S/ 17300S/20352S			
CLIENT: TBS	SHT. 18	DWG. ND: SK-3	REV. 6			

# STAND -ALONE STEM WALL DETAIL

INSTALL 172'W
ANCHID RIJL GR
J-BCL 7 THROUGH
BASE RAIL
VITHIN 6' DF
FACH PRIST

2' FOR CAST IN PLACE
4' FOR EXPANSION ANCHOR
SLAB-ON-GRADE
WW. DR FIBERGLASS
FIBERS

HA L DOWEL @ 40' DC

HA L DOWEL @ 40' DC

HA L DOWEL @ 48' DC

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

ALE: NIS



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