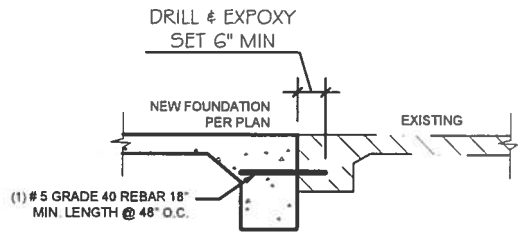
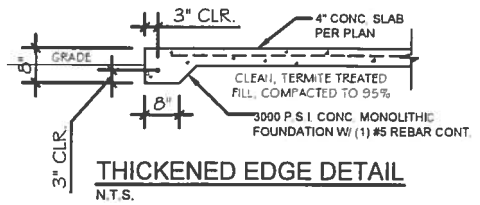
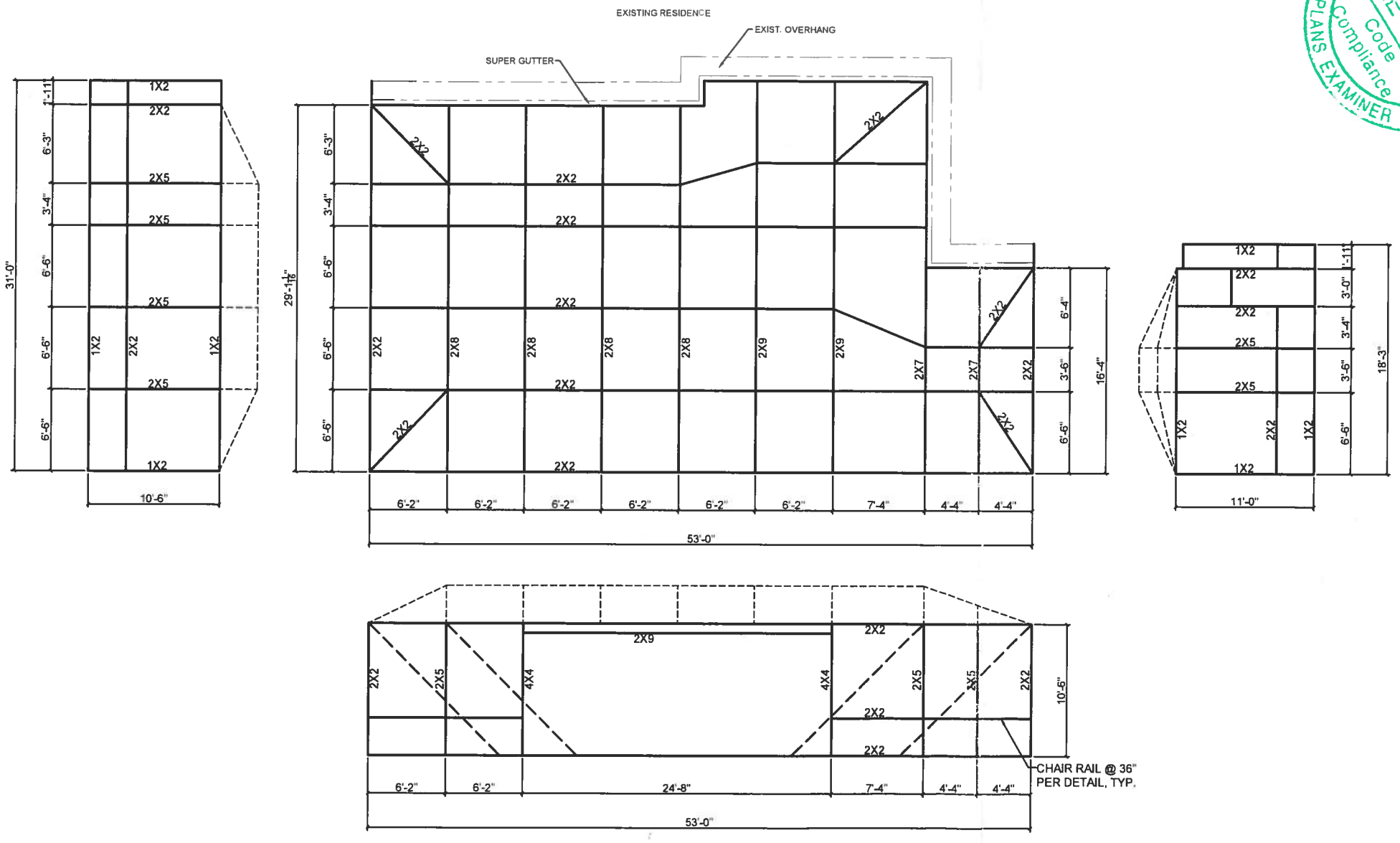


FOUNDATION TIE-IN DETAIL
N.T.S.



THICKENED EDGE DETAIL
N.T.S.

SCALE: 3/32" = 1'-0"
SCREEN ENCLOSURE = 1600 S.F.



COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

INDUSTRY STANDARD MATERIAL SIZES

ALUMINUM ALLOY 6005 T-5
SELF MATING SECTIONS (SMB)
- 2" X 4" X 0.044" X 0.046"
- 2" X 5" X 0.050" X 0.116"
- 2" X 6" X 0.050" X 0.120"
- 2" X 7" X 0.050" X 0.120"
- 2" X 8" X 0.072" X 0.224"
- 2" X 9" X 0.082" X 0.306"
- 2" X 10" X 0.092" X 0.374"

ALUMINUM ALLOY 6005 T-5
HOLLOW SECTION (PB)
- 2" X 4" X 0.050"
- 2" X 5" X 0.062"

ALUMINUM ALLOY 6005 T-5
HOLLOW POST
- 3" X 3" X 0.046" FLUTED
- 3" X 3" X 0.072" W/ SPLINE
- 3" X 3" X 0.090"
- 3" X 3" X 0.125"
- 4" X 4" X 0.125"

ALUMINUM ALLOY 6063 T-6
HOLLOW SECTION
- 1" X 2" X 0.046"
- 1" X 3" X 0.046"
- 1" X 4" X 0.046"
- 2" X 2" X 0.046"
- 2" X 3" X 0.050"
- 2" X 3" X 0.070"
- 3" X 2" X 0.050"
- 3" X 2" X 0.070"

ALUMINUM ALLOY 5052-H2
ANGLE
- 2" X 2" X 0.0625" LIGHT
- 2" X 2" X 0.125" HEAVY
- 1" X 1" X 0.0625"

ALUMINUM ALLOY 5052-H2
RECEIVING CHANNEL (RC)
- 1-1/2" X 2-1/8" X 0.046"
- 1-1/2" X 3-1/8" X 0.046"
- 1-1/2" X 4-1/8" X 0.046"

THE STRUCTURAL SYSTEM FOR THIS BUILDING HAVE BEEN REVIEWED FOR COMPLIANCE WITH CHAPTER 16 OF THE FLORIDA BUILDING CODE 6TH EDITION 2017 USING ASCE/SEI 7-10 140 M.P.H. 3 SECOND GUST.

MICHAEL A. ROBINSON LICENSE No. 28317 STATE OF FLORIDA PROFESSIONAL ENGINEER

Michael A. Robinson, P. E.
Florida Registration
No. 28317

BLUEWATER DRAFTING, INC.
1075 W. Gulf to Lake hwy, Lecanto, Fl 34461
Citrus PH: 352-436-4225 Marion PH: 352-522-0650
FAX:352-436-4265
EMAIL: plans@bluewaterdrafting.com

JORDAN'S CONSTRUCTION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS SHOWN, AND THAT ALL CONSTRUCTION COMPLIES WITH LOCAL BUILDING CODE & ORDINANCES.

A CUSTOM PLAN FOR:

THE MCKENZIE RESIDENCE

Project: BW-8305
Date: 7-29-19
Prelim:
Final: 8-6-19

SHEET
1 OF 4

MICHAEL A. ROBINSON, P.E.
(Rusty)
STRUCTURAL ENGINEERING, INC.
INDUSTRIAL, COMMERCIAL, and RESIDENTIAL
921 SHADOW DRIVE
SUITE No. 3
LAKELAND, FLORIDA 33809
OFFICE: 863-815-9541
FAX: 863-858-9861
EMAIL: mrobinson24@str-eng.com

GENERAL NOTES

140 MPH, EXPOSURE B
THE DESIGN OF THIS STRUCTURE HAS BEEN REVIEWED FOR COMPLIANCE WITH THE FLORIDA BUILDING CODE 6TH EDITION 2017, BUILDING (FBCB) SECTION 2002.1 USING THE FOLLOWING CRITERIA AA ASM 35, ASTM ALUMINUM AND ALUMINUM ALLOY SPECIFICATIONS, ALUMINUM STANDARDS AND DAQTA, AND ASCE 7-10

ULTIMATE DESIGN WIND SPEED, Vult = 140 M.PH.(3 SECOND GUST)
NOMINAL DESIGN WIND SPEED,Vasd = 108 M.P.H.
BUILDING RISK CATEGORY = I
EXPOSURE CATEGORY = B (WORSE CASE, ALL DIRECTIONS)
+- 0.18 FOR ENCLOSURE STRUCTURES
+- 0.55 FOR PARTIALLY ENCLOSED STRUCTURES
+- 0.00 FOR OPEN STRUCTURES
DESIGN PRESSURE TAKEN FROM TABLE 2002.4 FBC 2017 6TH EDITION

1. ALL BOLTS, NUTS, AND WASHER SHALL BE CARBON STEEL HOT DIPPED GALVANIZED TO ASTM A153 OR ELECTRO-GALVANIZED TO ASTM B633. HOT DIPPED TO A490 BOLTS SHALL NOT BE USED. BOLT HARDNESS SHALL BE LESS THAN ROCKWELL C35. MINIMUM SPACING BETWEEN BOLT CENTERS SHALL BE 2.5 TIMES BOLT DIAMETER. UNLESS NOTED OTHERWISE.

2. SMS SHALL BE COATED OR PLATED CARBON STEEL WITH A ROCKWELL HARDNESS LESS THAN C35. SCREWS SHALL BE ZINC COATED PER ASTM, A123, A641, OR B633 OR NICKEL/CHROMIUM PLATED PER ASTM B456, TYPE SC.

3. ALL FASTENERS TO BE CARBON STEEL WITH A CORROSION RESISTANT COATING.
4. ALL CONCRETE ANCHORS SHALL BE A MINIMUM OF 2" FROM EDGE OF CONCRETE.
5. NO ALUMINUM SHALL BE WELDED OR EXPOSED TO EXTREME TEMPERATURE.
6. ALL TAPCONS SHALL HAVE A MINIMUM OF 1-1/4" EMBEDMENT INTO CONCRETE.
7. SELF MATING BEAMS (SMB) SHALL BE STITCHED AT EACH END, AT EACH PURLIN OR CHAIR RAIL CONNECTION AND NO MORE THAN 18" O.C. WITH #12X3/4 STS ON BOTH FLANGES.

8. 1X2 EXTRUSION (LACING) SHALL BE FASTENED WITH EITHER TAPCONS OR #12X2" SMS AT 24" O.C. MAX. AND WITHIN 2" OF EACH END UNLESS NOTED OTHERWISE. THIS INCLUDES ATTACHMENT OF FRONT WALL TO SIDE WALLS.

9. GIRTS 88" AND UNDER ARE TO BE 2X2'S AND GIRTS OVER 88" ARE TO BE 2X3'S. USE 2X4'S BETWEEN 2X10 BEAMS OR POSTS.

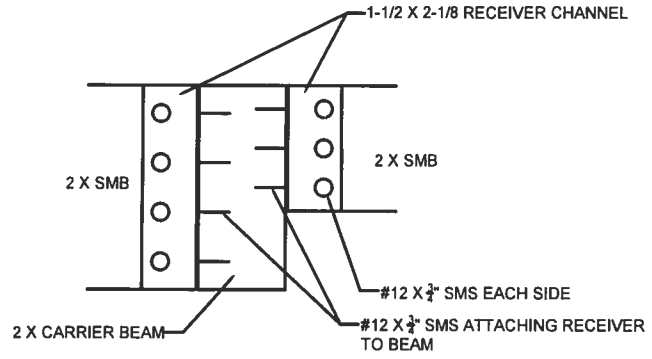
10. CONCRETE FOUNDATIONS SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 18, FBCB. SUBSURFACE GEO-TECHNICAL INFORMATION HAS NOT BEEN PROVIDED TO THE ENGINEER. THEREFORE FOUNDATIONS AND FOOTINGS ARE DESIGNED FOR THE FOLLOWING ASSUMED SOIL BEARING CONDITIONS: LOOSE GRANULAR MATERIAL WITH NO APPRECIABLE CLAY OR ORGANIC MATERIAL WITH A MINIMUM ALLOWABLE BEARING PRESSURE OF 2000 PSF PER FBCB TABLE 1806.2. COMPACT FILL TO 95% MODIFIED PROCTOR.

11. MASONRY CONSTRUCTION SHALL CONFORM TO REQUIREMENTS OF CHAPTER 21, FBCB. NET AREA COMPRESSIVE STRENGTH OF MASONRY IS 1500 PSI. TYPE M, OR S MORTAR SHALL BE USED. ALL MASONRY SHALL BE LAID IN RUNNING BOND PATTERN WITH HEAD JOINTS IN SUCCESSIVE COURSES OFFSET BY NOT LESS THAN ONE-FOURTH THE UNIT LENGTH. THICKNESS OF BED JOINTS SHALL NOT EXCEED 5/8". GLASS UNIT MASONRY SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 2110, FBCB.

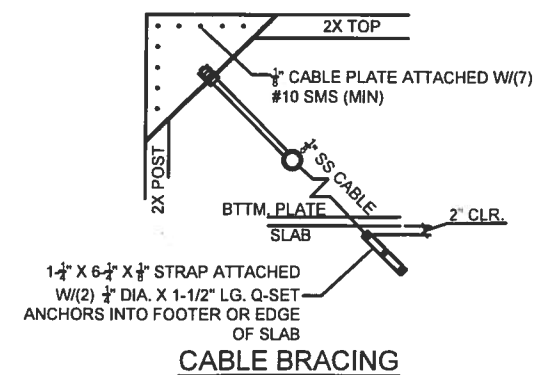
12. GROUT USED TO FILL CELLS, LINTELS AND BOND BEAMS SHALL CONFORM TO REQUIREMENTS OF ASTM C476 AND CHAPTER 21, FBCB. REQUIRED MINIMUM COMPRESSIVE STRENGTH IS 2000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED.

13. CONCRETE SHALL CONFORM TO REQUIREMENTS OF CHAPTER 19, FBCB, AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED.

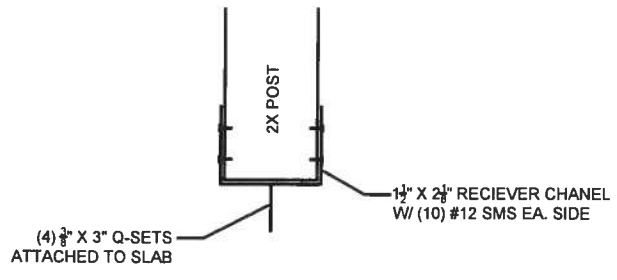
14. REINFORCING BARS SHALL BE GRADE 40 OR 60 MINIMUM IN FOUNDATIONS, MASONRY FOUNDATION WALLS, AND CMU WALLS UNLESS OTHERWISE NOTED. REINFORCING BARS SHALL BE DEFORMED BILLET STEEL BARS AND COMPLY WITH ASTM A 615 REQUIREMENTS. JOINT REINFORCING IF USED, SHALL BE 9 GAGE, GALVANIZED STEEL CONFORMING TO ASTM A82 REQUIREMENTS. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 REQUIREMENTS. WIRE FABRIC SHALL BE SUPPORTED AS REQUIRED IN SECTION 1910, FBCB. SYNTHETIC FIBER REINFORCEMENT SHALL CONFORM TO REQUIREMENTS OF SECTION 1910, FBCB.



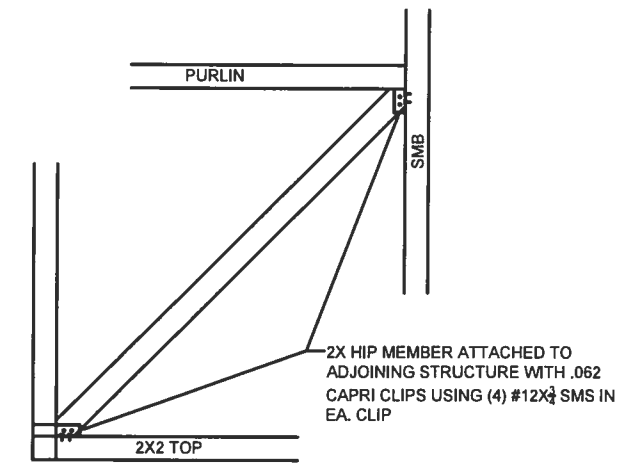
TYP CARRIER BEAM CONNECTION
N.T.S.



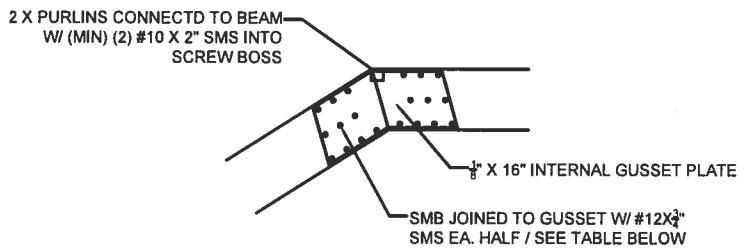
CABLE BRACING
N.T.S.



TYP 2X POST TO CONCRETE DETAIL
N.T.S.

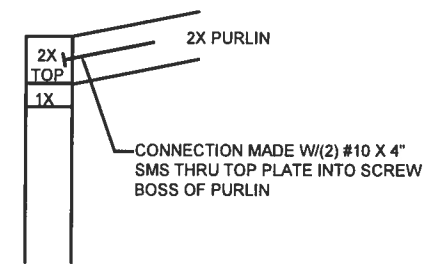


ROOF BRACING
N.T.S.



BEAM SPLICE DETAILS TABLE BEAM	SPLICE PLATE DIMENSIONS			#12 SMS PER SIDE PER END	TOTAL #12 SMS PER SPLICE	FASTNER SPACES NUMBER OF SPACES	
	THICKNESS	LENGTH	HEIGHT			HORIZONTAL	VERTICAL
2X4X0.044X0.100 SMB	1/8"	16"	4.25"	7	24	3	3
2X6X0.050X0.120 SMB	1/8"	16"	5.25"	10	40	3	3
2X7X0.050X0.120 SMB	1/8"	16"	6.25"	14	56	3	3
2X8X0.072X0.224 SMB	3/16"	18"	7.25"	16	64	4	3
2X9X0.082X0.306 SMB	3/16"	18"	8.25"	18	72	4	4
2X10X0.092X0.389 SMB	1/4"	20"	9"	22	88	4	6

MANSERED BEAM CONNECTION
N.T.S.



TYP PURLIN TO TOP PLATE CONNECTION
N.T.S.

THE STRUCTURAL SYSTEM FOR THIS BUILDING HAVE BEEN REVIEWED FOR COMPLIANCE WITH CHAPTER 16 OF THE FLORIDA BUILDING CODE 6TH EDITION 2017 USING ASCE/SEI 7-10 140 M.P.H. 3 SECOND GUST.

MICHAEL A. ROBINSON LICENSE No. 28317 STATE OF FLORIDA PROFESSIONAL ENGINEER
Michael A. Robinson, P. E.
Florida Registration No. 28317

BLUEWATER DRAFTING, INC.
1075 W. Gulf to Lake hwy, Lecanto, Fl 34461
Citrus PH: 352-436-4225 Marion PH: 352-522-0650
FAX:352-436-4265
EMAIL: plans@bluewaterdrafting.com

JORDAN'S CONSTRUCTION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS SHOWN, AND THAT ALL CONSTRUCTION COMPLIES WITH LOCAL BUILDING CODE & ORDINANCES.

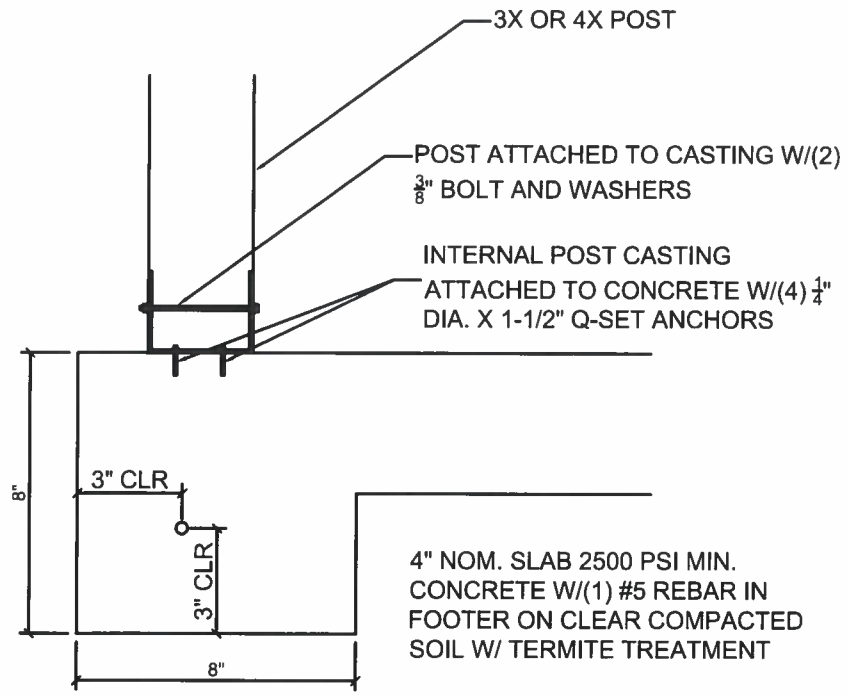
A CUSTOM PLAN FOR:

THE MCKENZIE RESIDENCE

Project: BW-8309
Date: 7-29-19
Prelim:
Final: 8-6-19

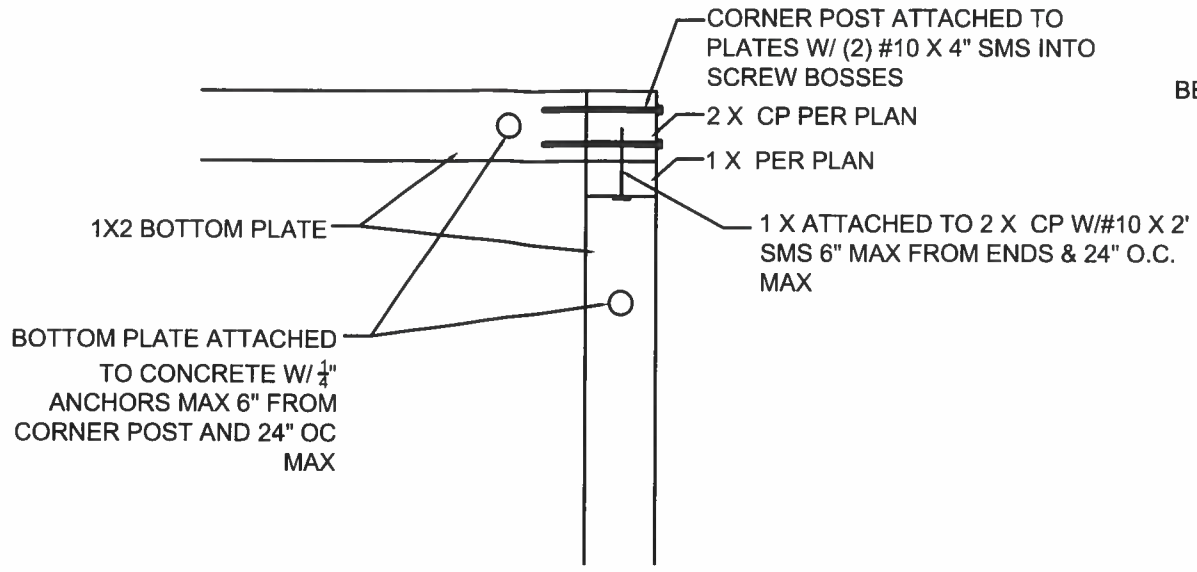
SHEET
2 OF 4

MICHAEL A. ROBINSON, P.E.
(Rusty)
STRUCTURAL ENGINEERING, INC.
INDUSTRIAL, COMMERCIAL, and RESIDENTIAL
921 SHADOW DRIVE
SUITE No. 3
LAKELAND, FLORIDA 33809
OFFICE: 863-815-9541
FAX: 863-858-9861
EMAIL: mrobinson24@str-eng.com



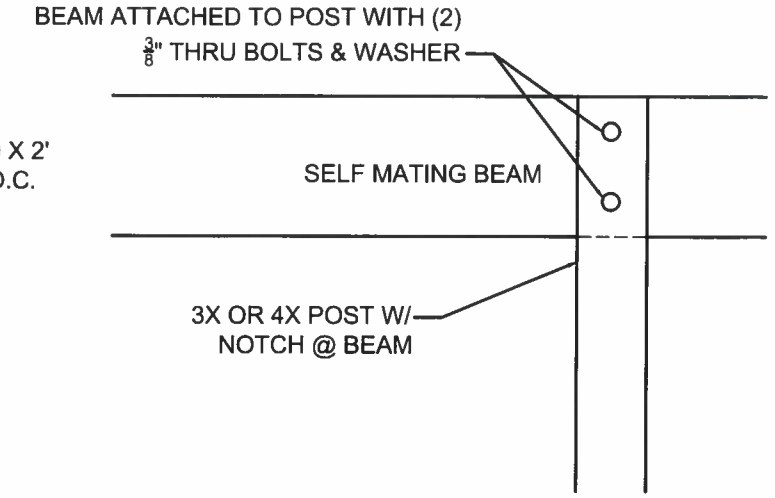
TYP 3X OR 4X POST TO CONCRETE DETAIL

N.T.S.



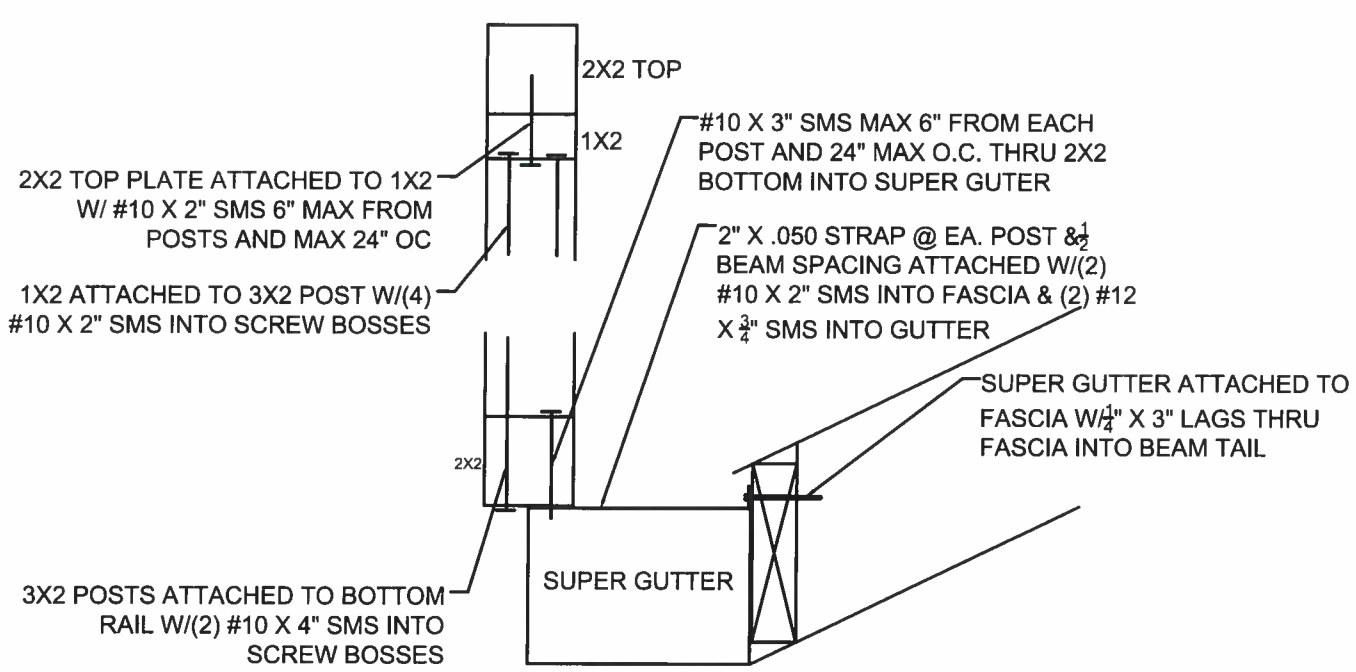
TYP CORNER POST DETAIL

N.T.S.



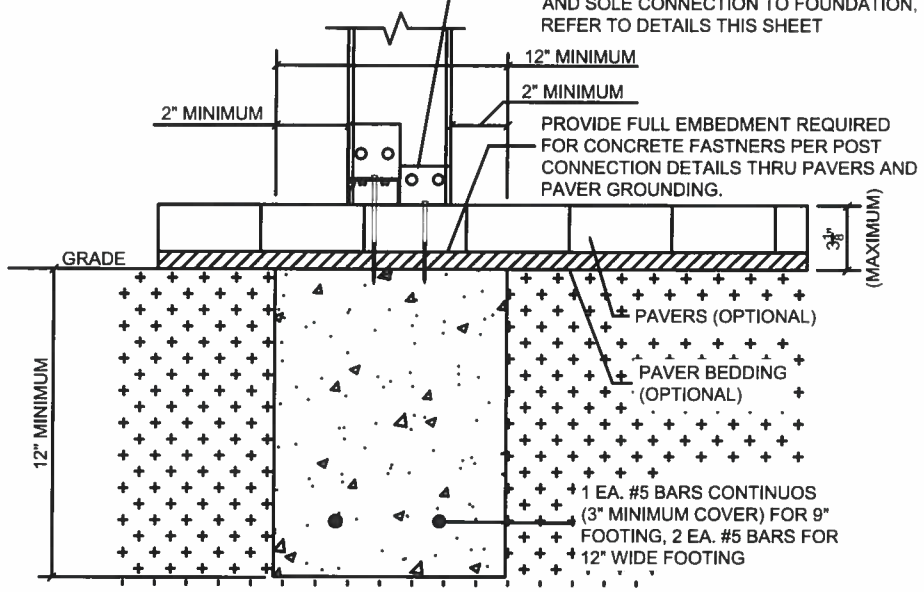
TYP 3X OR 4X BEAM TO POST DETAIL

N.T.S.



PONY WALL DETAIL

N.T.S.



INCREASE WIDTH OF RIBBON FOOTING TO ACCOMODATE DEEPER POST SECTIONS TO MAINTAIN EDGE DISTANCE FOR CONCRETE FASTNERS REQUIRED BY POST CONNECTION DETAILS.

TYPICAL "RIBBON" FOOTING SECTION (ALTERNATIVE CONNECTION W. PAVERS)

DETAIL: NTS

THE STRUCTURAL SYSTEM FOR THIS BUILDING HAVE BEEN REVIEWED FOR COMPLIANCE WITH CHAPTER 16 OF THE FLORIDA BUILDING CODE 5TH EDITION 2017 USING ASCE/SEI 7-10 140 M.P.H. 3 SECOND GUST.

BLUEWATER DRAFTING, INC.

1075 W. Gulf to Lake hwy, Lecanto, Fl 34461
Citrus PH: 352-436-4225 **Marion PH:** 352-522-0650
FAX:352-436-4265
EMAIL: plans@bluewaterdrafting.com

JORDAN'S CONSTRUCTION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS SHOWN, AND THAT ALL CONSTRUCTION COMPLIES WITH LOCAL BUILDING CODE & ORDINANCES.

A CUSTOM PLAN FOR:

THE MCKENZIE RESIDENCE

Project: BW-8309
Date: 7-29-19
Prelim:
Final: 8-6-19

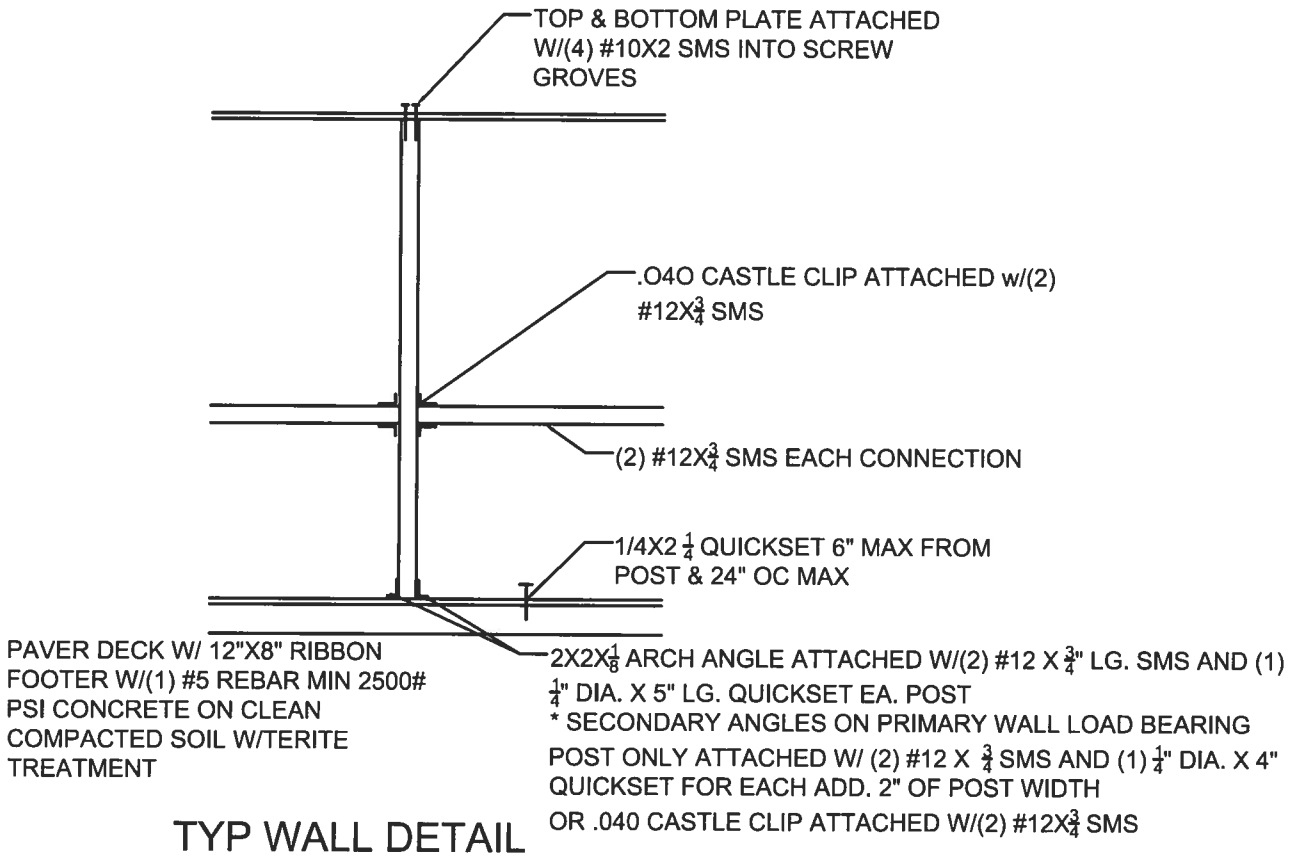
SHEET

3 OF 4

Michael A. Robinson, P.E.
No. 28317
STATE OF FLORIDA
PROFESSIONAL ENGINEER
8.8.19
Florida Registration No. 28317

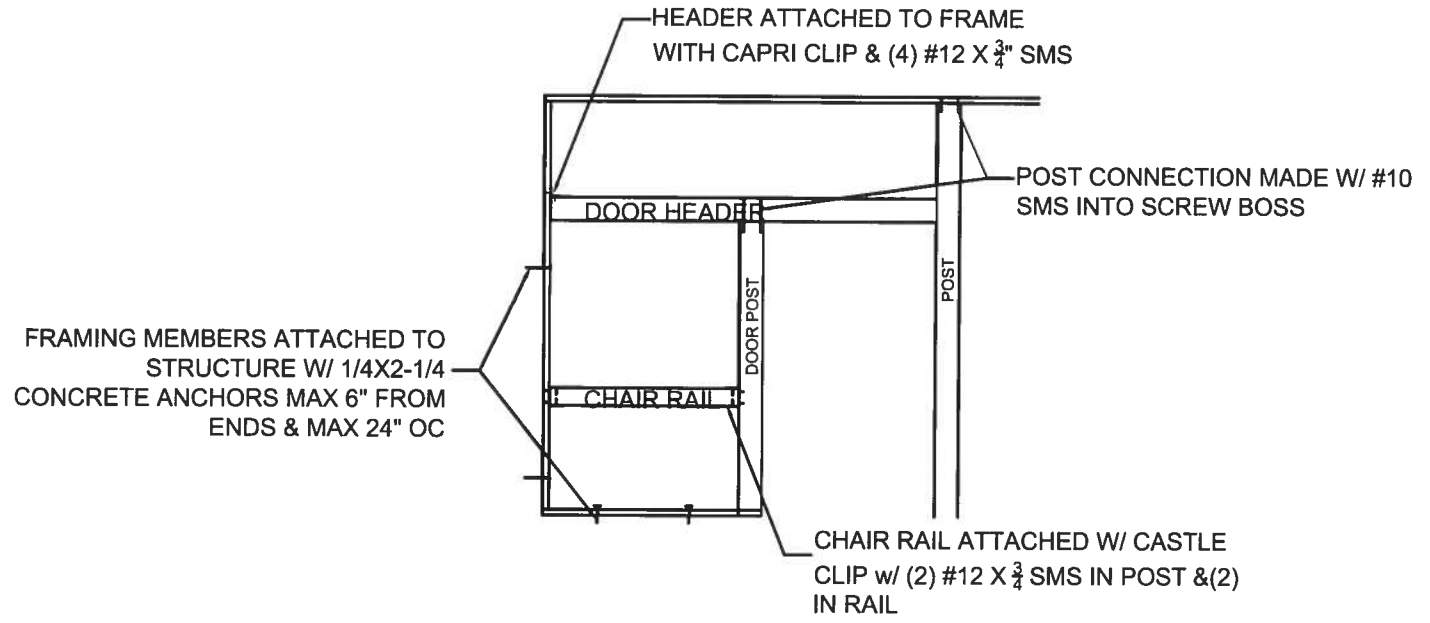
MICHAEL A. ROBINSON, P.E.
(Rusty)
STRUCTURAL ENGINEERING, INC.
INDUSTRIAL, COMMERCIAL, and RESIDENTIAL
921 SHADOW DRIVE
SUITE No. 3
LAKELAND, FLORIDA 33809

OFFICE: 863-815-9541
FAX: 863-858-9861
EMAIL: mrobinson24@str-eng.com



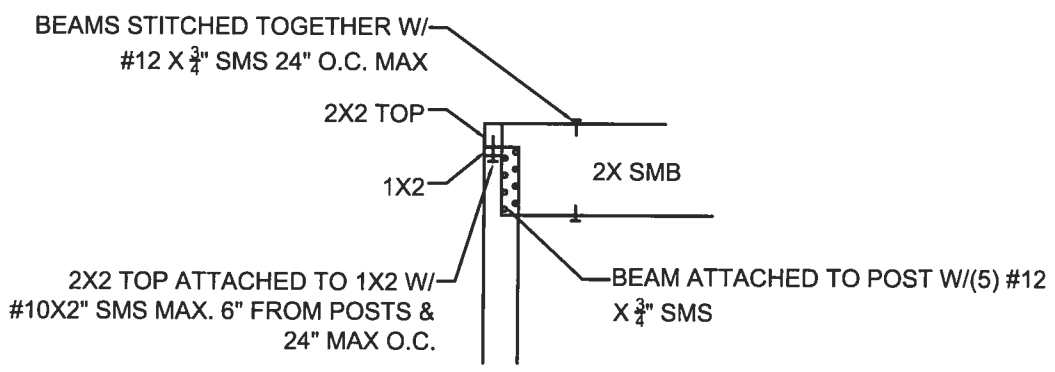
TYP WALL DETAIL

N.T.S.



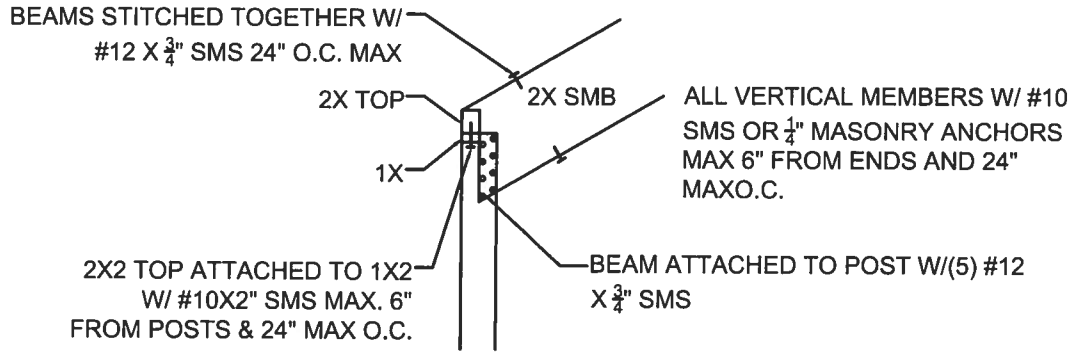
TYP FRAME DETAIL

N.T.S.



TYP 2X POST TO BEAM CONNECTION

N.T.S.



TYP POST TO SLOPED BEAM CONNECTION

N.T.S.

THE STRUCTURAL SYSTEM FOR THIS BUILDING HAVE BEEN REVIEWED FOR COMPLIANCE WITH CHAPTER 16 OF THE FLORIDA BUILDING CODE 6TH EDITION 2017 USING ASCE/SEI 7-10 140 M.P.H. 3 SECOND GUST.

MICHAEL A. ROBINSON LICENSE No. 28317 STATE OF FLORIDA PROFESSIONAL ENGINEER

Michael A. Robinson, P. E.
Florida Registration
No. 28317

BLUEWATER DRAFTING, INC.
1075 W. Gulf to Lake hwy, Lecanto, Fl 34461
Citrus PH: 352-436-4225 Marion PH: 352-522-0650
FAX:352-436-4265
EMAIL: plans@bluewaterdrafting.com

JORDAN'S CONSTRUCTION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS SHOWN, AND THAT ALL CONSTRUCTION COMPLIES WITH LOCAL BUILDING CODE & ORDINANCES.

A CUSTOM PLAN FOR:

THE MCKENZIE RESIDENCE

Project: BW-8309
Date: 7-29-19
Prelim:
Final: 8-6-19

SHEET

4 OF 4

MICHAEL A. ROBINSON, P.E.
(Rusty)
STRUCTURAL ENGINEERING, INC.
INDUSTRIAL, COMMERCIAL, and RESIDENTIAL
921 SHADOW DRIVE
SUITE No. 3
LAKELAND, FLORIDA 33809
OFFICE: 863-815-9541
FAX: 863-858-9861
EMAIL: mrobinson24@str-eng.com