

1. DESIGN IS FOR MAXIMUM 30'-0" WIDE X 20'-0" EAVE HEIGHT FULLY ENCLOSED STRUCTURES.
2. APPLICABLE CODES, REGULATIONS, & STANDARDS:
 - A. 2024 INTERNATIONAL BUILDING CODE
 - B. 2024 INTERNATIONAL BUILDING CODE
 - C. ASCE 7-22: MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES
 - D. ACI 308R-16: CONCRETE REPAIR AND REINFORCEMENT PRACTICE
 - E. ACI 308.5R-16: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - F. TMS-402-16B: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
 - G. AWS D1.1: STRUCTURAL WELDING
3. RISK CATEGORY: I
4. EXPOSURE CATEGORY: C
5. CLIMATE WIND SPEED USED: 15.0 MPH (NOMINAL) WIND SPEED 81 TO 116 MPH); MAXIMUM SUSTAINED WIND SPEED 117 TO 139 MPH (NOMINAL) WIND SPEED 117 TO 139 MPH); MAXIMUM HURRICANE WIND SPEED 151 TO 180 MPH (NOMINAL) WIND SPEED 117 TO 139 MPH); MAXIMUM WATERPOST AND END POST SPACING = 4.0 FEET.
6. DEAD LOAD = 10 PSF
7. LIVE LOAD = 10PSF
8. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2-1/2"x 2-1/2"x 3-1/4" GUAGE LITE STEEL (TS) FRAMING MEMBERS FOR VERTICAL PANELS. 29 GAUGE METAL PANELS SHALL BE FASTENED TO 18 GAUGE IAT CHANNELS (UNLESS OTHERWISE NOTED).
9. OPTIONAL BASE RAIL ANCHORAGE MAY BE USED FOR LOW AND MUST BE USED FOR HIGH WIND SPEEDS.
10. FASTENERS CONSIST OF #12-1/4"x 3/4" SELF DRILLING FASTENER (SDP). USE CONTROL SEAL WASHER OR FLANGE WASHER WITH 1/2" DIA. DRILL BIT. USE 1/2" DIA. DRILL BIT FOR ROOF SHEETS OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
11. AVERAGE FASTER NAIL SPACING ON RAFTERS OR PURLINS, AND POSTS, INTERIOR = 9". OR END = 6". (MAX.).
12. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
RISK CATEGORY II/III
 $R = 3.25$ $I_e = 1.0$
 $S_{ds} = 0.087 \text{ g}$ $V = \text{CSW}$
 $S_{d1} = 0.084 \text{ g}$
13. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH RAFTER COLUMN SIDING SIDES.
12. GROUND ANCHOR (SOIL NAILS) CONSIST OF #5 REBAR W/ WELDED NUT X .30" LONG IN SUITABLE SOIL CONDITIONS MAY BE USED FOR LOW (≤ 108 MPH NOMINAL) WIND SPEEDS ONLY. OPTIMAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USE IN UNSUITABLE SOILS AS NOTED.
13. MIN. LAP REQUIREMENT FOR REBAR IN FOOTER IS 25".
14. SOIL TO BE COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT, IN ACCORDANCE WITH ASTM D1557-93
15. PRIOR TO PLACING CONCRETE, TREAT THE ENTIRE SUBSURFACE AREA FOR TERMITES IN COMPLIANCE WITH THE FBCC.

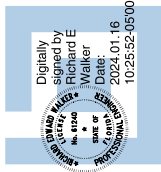
PAGE NO.	DESCRIPTION
1	NOTES AND SPECIFICATIONS
2	BOX EAVE FRAME RAFTER ENCLOSED BUILDING
3	BOW EAVE FRAME RAFTER ENCLOSED BUILDING/WIND PRESSURES
4	BASE RAIL AND FOUNDATION ANCHORAGE
5	BOX/BOW EAVE VERTICAL, ROOF/SIDING OPTION
6	BOX/BOW EAVE RAFTER LEAN-TO OPTIONS
7	BOX EAVE RAFTER END WALL, SIDE WALL AND OPENING FRAMING
8	VENT AND CHIMNEY STEM WALL DETAIL
9	OPTIONAL CONCRETE STRIP FOOTING

PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	APPROVAL No. & DATE
STRUCTURAL COMPONENTS STRUCTURAL COMPONENTS EXTERIOR DOORS EXTERIOR DOORS EXTERIOR DOORS EXTERIOR DOORS WINDOWS WINDOWS	ROOF DECK	CAPITAL METAL SUPPLY, INC. 29 GA. CAPITAL RIB ROOF PANEL	F120147.2-R3 12/13 /2023
	STRUCTURAL WALL	CAPITAL METAL SUPPLY, INC. 29 GA. CAPITAL RIB WALL PANEL	F120148.2-R3 12/13/2023
	ROLL-UP	JANUS INTERNATIONAL GROUP, LLC SERIES 3652	F114425.1-R6 1/2/15/21
	ROLL-UP	JANUS INTERNATIONAL GROUP, LLC SERIES 750	F121450.1D-R11 10/17/23
	ROLL-UP	JANUS INTERNATIONAL GROUP, LLC SERIES 3100	F112765.4-R6 10/12/20
	SWINGING	ELBUR DOOR AND METAL COMPANY SERIES 407	F117996.5-R3 12/26/23
	SINGLE HUNG	KINRO, INC 9750 SH	F1993.3-R19 11/01/23
	VERTICAL SLIDING	KINRO, INC 18000-R V5	F1993.8-R19 11/01/23

TRACTOR:	PROJECT DESCRIPTION:
TUBULAR BUILDING SYSTEM 631 SE INDUSTRIAL CIRCLE LAKE CITY, FL 32025	30' WIDE X 20' HIGH ENCLOSED STRUCTURE

DESIGN DATE:	12/14/2023	PAGE :	1
REVISION 1:	DATE		
REVISION 2:	DATE		
SCALE:	NTS		

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Orders@FLEng.com
222771-30-E
VC CERT #30782



PROJECT NO. 2322771-30-E

Orders@FLEng.com

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CA CERT. #30782

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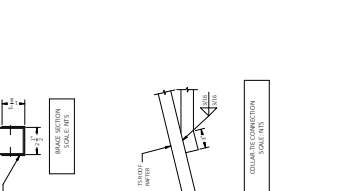
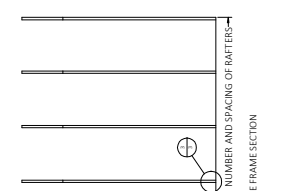
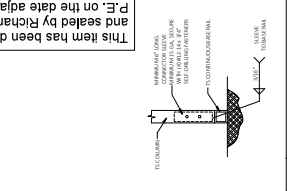
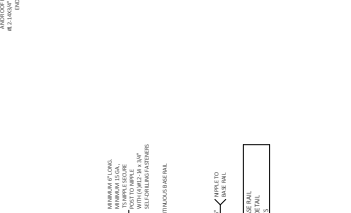
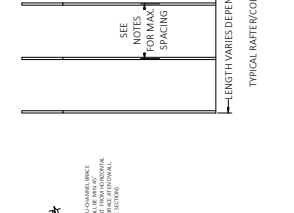
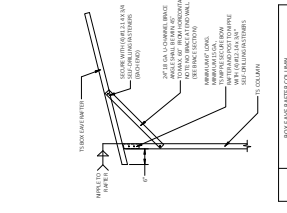
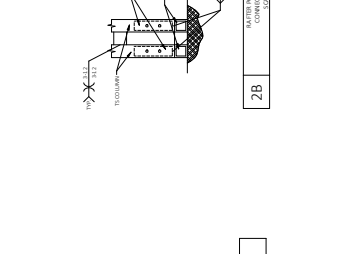
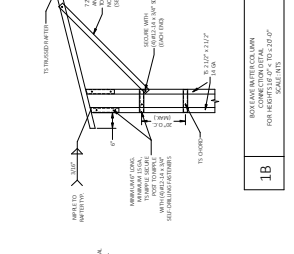
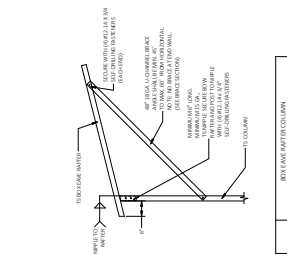
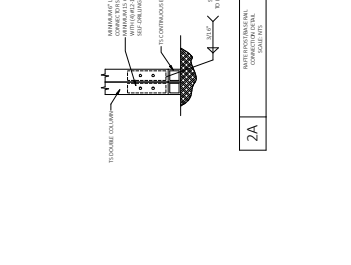
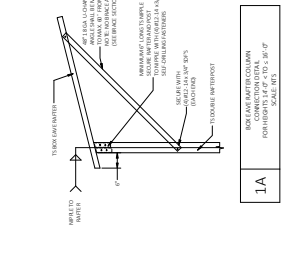
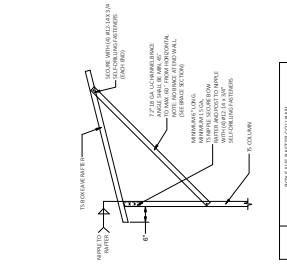
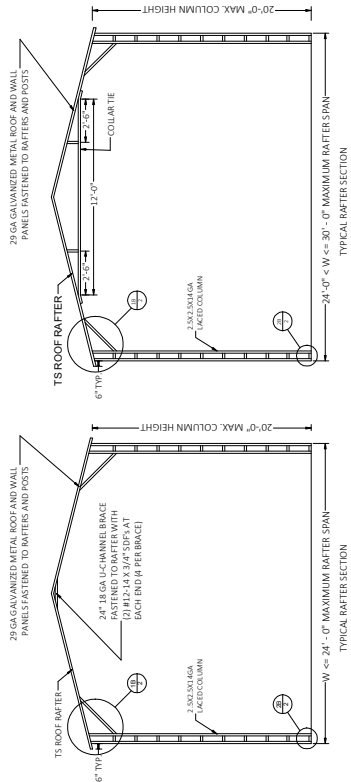
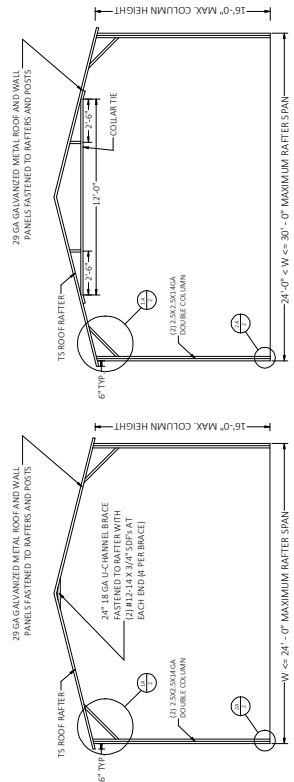
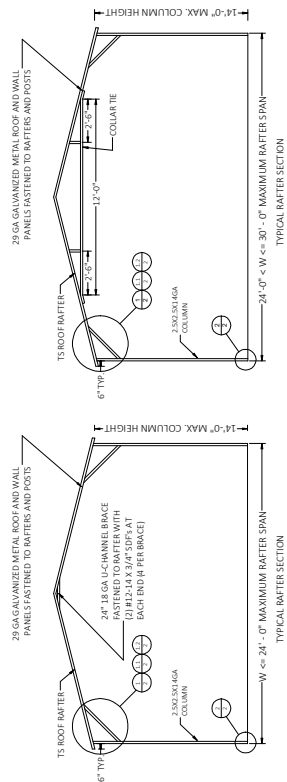
SEAL
STATE OF FLORIDA
Professional Engineer
No. 81040
Richard E. Walker
2023.01.16
10:25:54-0500

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CA CERT. #30782
PROJECT NO. 2322771-30-E

CONTRACTOR:
TUBULAR BUILDING SYSTEMS
631 SE INDUSTRIAL CIRCLE,
LAKE CITY, FL 32025
PROJECT DESCRIPTION:
30" WIDE X 20" HIGH
ENCLOSED STRUCTURE

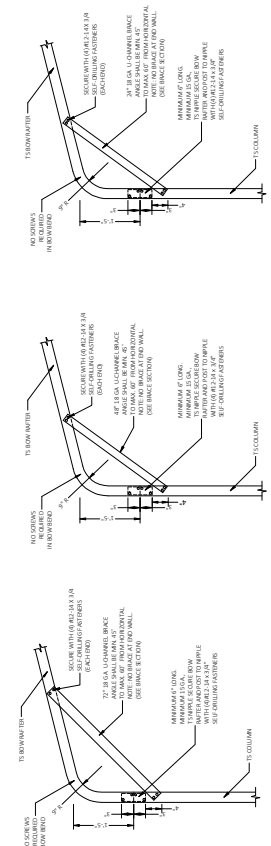
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REVISION 1: DATE
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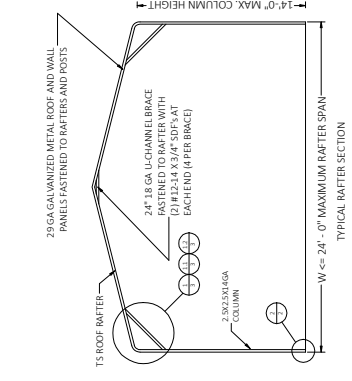
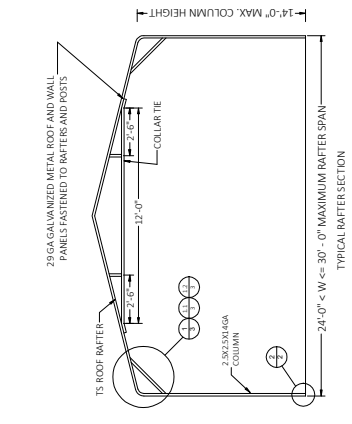


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Date: 2023.01.16 10:25:55-0500

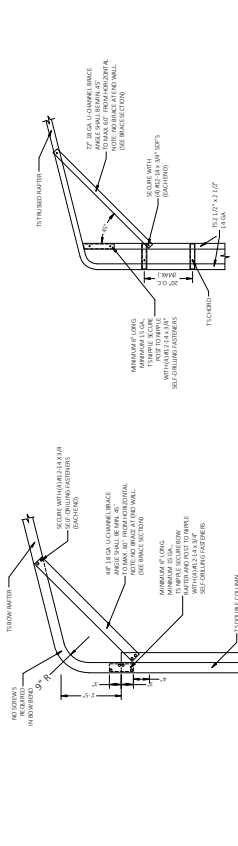


1 BOW EAVE AFTER COLUMN
FOR HEIGHTS 21'-0" TO 24'-0"
SCALE: NTS

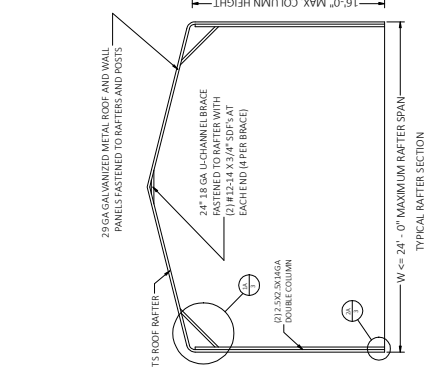
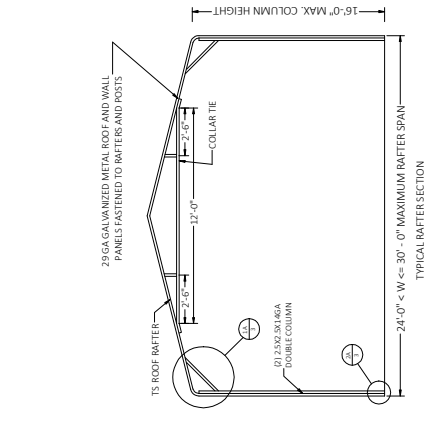


1.1 BOW EAVE AFTER COLUMN
FOR HEIGHTS 21'-0" TO 24'-0"
SCALE: NTS

1.2 BOW EAVE AFTER COLUMN
FOR HEIGHTS 21'-0" TO 24'-0"
SCALE: NTS

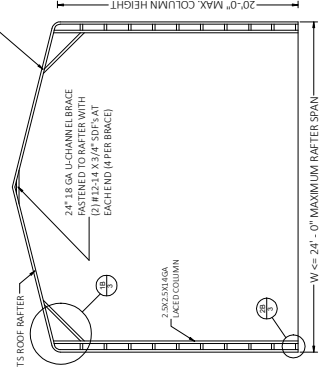
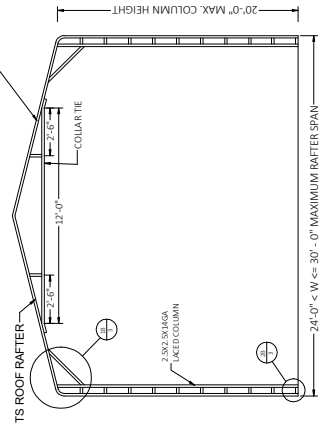
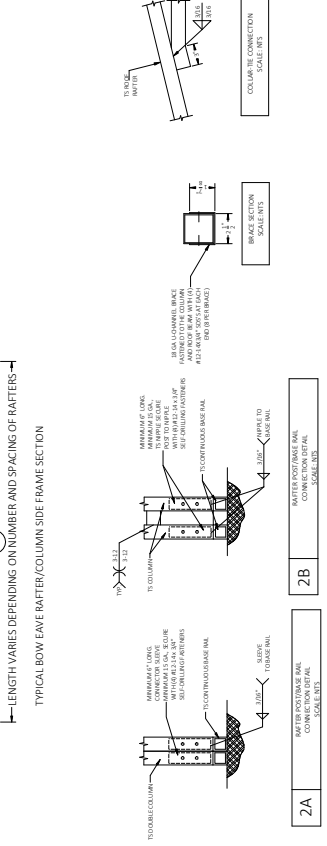
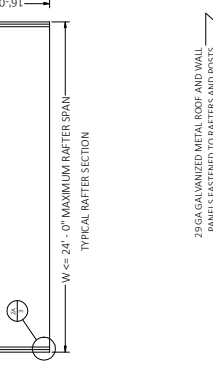
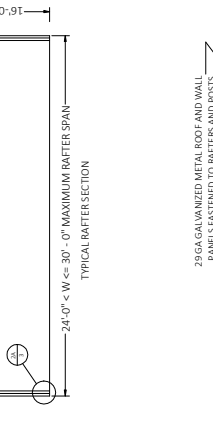
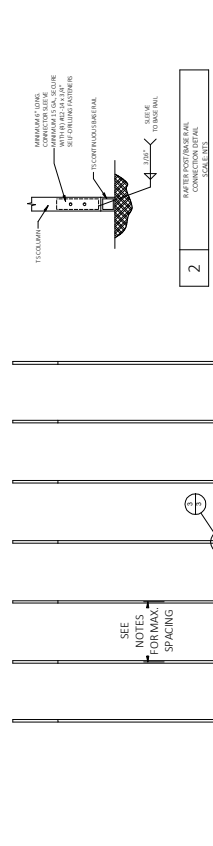


2 BOW EAVE AFTER COLUMN
FOR HEIGHTS 25'-0" TO 30'-0"
SCALE: NTS



2A BOW EAVE AFTER COLUMN
FOR HEIGHTS 25'-0" TO 30'-0"
SCALE: NTS

2B BOW EAVE AFTER COLUMN
FOR HEIGHTS 25'-0" TO 30'-0"
SCALE: NTS

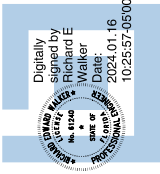


4 TYPICAL BOW EAVE RAFTER/COLUMN SIDE FRAME SECTION
LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS
SCALE: NTS

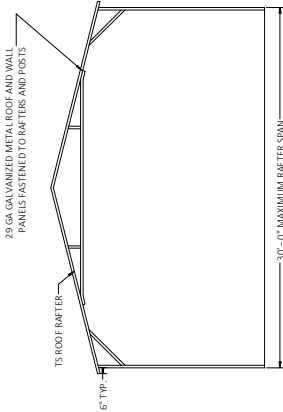
4A TYPICAL BOW EAVE RAFTER/COLUMN SIDE FRAME SECTION
LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS
SCALE: NTS

4B TYPICAL BOW EAVE RAFTER/COLUMN SIDE FRAME SECTION
LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS
SCALE: NTS

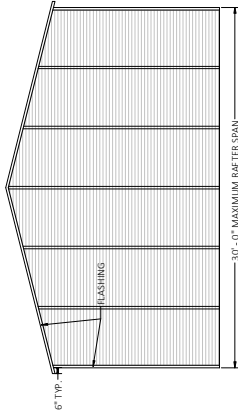
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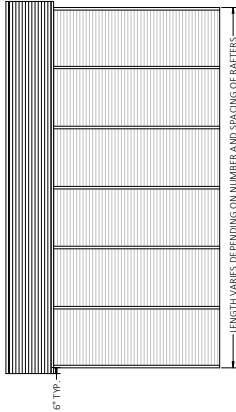
BOX EAVE RAFTER HORIZONTAL SIDE PANEL OPTION



TYPICAL RAFTER/POST FRAME SECTION EXTRA SIDE PANELS



TYPICAL END ELEVATION EXTRA SIDE PANELS



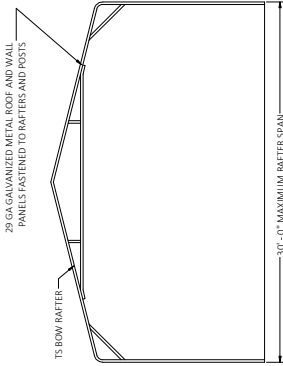
TYPICAL SIDE ELEVATION - EXTRA SIDE PANELS

18 GA U-CHANNEL BRACE FASTENED TO THE COLUMN AND ROOF BEAM WITH (4) #12-4824" S055 AT EACH END (8 FEET BRACE)

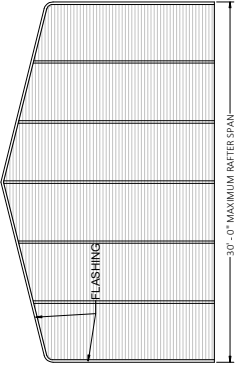


BRACE SECTION SCALE: NTS

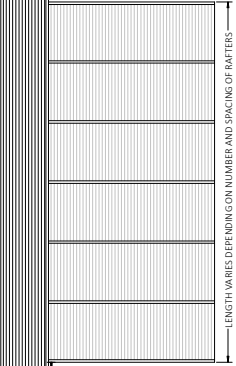
BOW RAFTER GABLE END OPTION



TYPICAL RAFTER/POST FRAME SECTION EXTRA SIDE PANELS



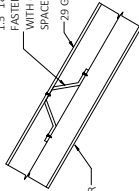
TYPICAL END ELEVATION EXTRA SIDE PANELS



TYPICAL SIDE ELEVATION - EXTRA SIDE PANELS

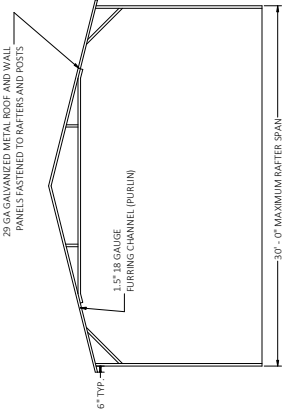
15" 18 GAUGE FURRING CHANNEL FASTENED TO EACH RAFTER WITH (2) #12-14 x 3/4" SELF-DRILLING FASTENERS SPACED NOT MORE THAN 48" O.C.

29 GA. METAL ROOF PANEL

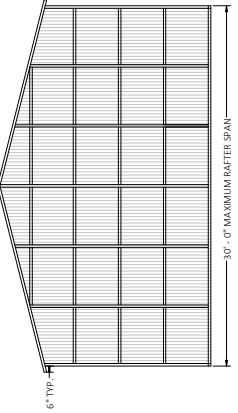


ROOF PANEL ATTACHMENT SCALE: NTS

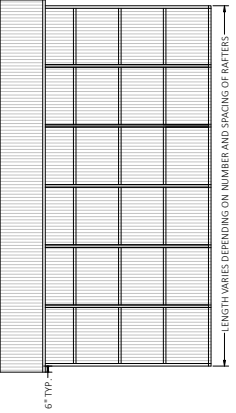
BOX EAVE RAFTER VERTICAL ROOF OPTION



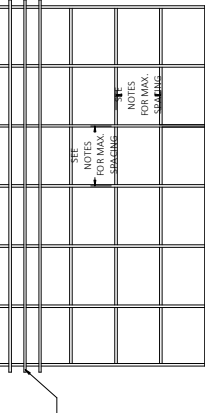
TYPICAL SECTION VERTICAL ROOF/SIDING OPTION



TYPICAL END ELEVATION VERTICAL ROOF/SIDING OPTION

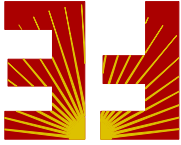


TYPICAL SIDE ELEVATION - VERTICAL ROOF/SIDING OPTION



TYPICAL FRAMING SECTION - VERTICAL ROOF/SIDING OPTION

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PROJECT NO. 2322771-30-E

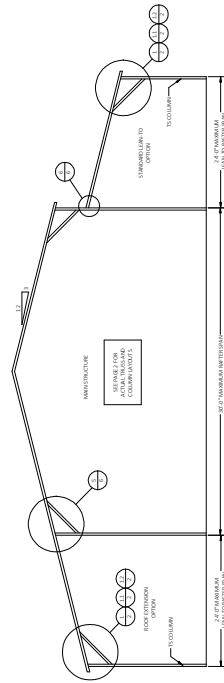


CONTRACTOR:
TUBULAR BUILDING SYSTEMS
631 SE INDUSTRIAL CIRCLE,
LAKE CITY, FL 32025

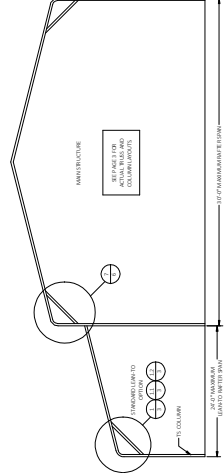
PROJECT DESCRIPTION:
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ENCLOSED STRUCTURE

DESIGN DATE:	12/14/2023
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BOX LEAVE RAFTER LEAN-TO OPTIONS



BOW RAFTER LEAN-TO OPTIONS

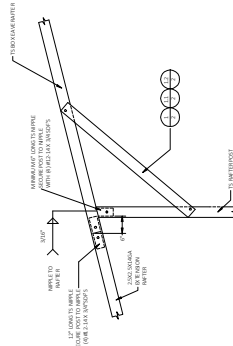


TYPICAL BOX LEAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

TYPICAL LOW RAFTER LEAN-TO OPTIONS FRAMING SECTION

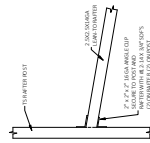
5A

SIZE: SEE TYPICAL MATERIAL CONNECTION DETAIL.
FOR EXTENSION RAFTER SPANS $15' < W \leq 25' < 40'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2.
FOR LEAN-TO RAFTER SPANS $15' < W \leq 25' < 40'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2.
FOR LEAN-TO RAFTER SPANS $15' < W \leq 25' < 40'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2.



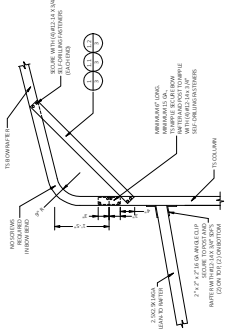
6A

SIZE: SEE TYPICAL MATERIAL CONNECTION DETAIL.
FOR LEAN-TO RAFTER SPANS $15' < W \leq 25' < 40'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2 OR 1.1.3.
FOR LEAN-TO RAFTER SPANS $15' < W \leq 25' < 40'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2 OR 1.1.3.
FOR LEAN-TO RAFTER SPANS $15' < W \leq 25' < 40'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2 OR 1.1.3.



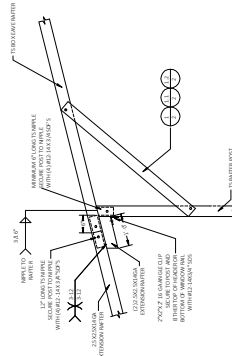
7A

SIZE: SEE TYPICAL MATERIAL CONNECTION DETAIL.
FOR EXTENSION RAFTER SPANS $15' < W \leq 25' < 40'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2.
FOR EXTENSION RAFTER SPANS $15' < W \leq 25' < 40'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2.
FOR EXTENSION RAFTER SPANS $15' < W \leq 25' < 40'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2.



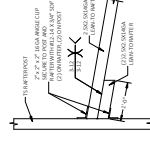
5B

SIZE: SEE TYPICAL MATERIAL CONNECTION DETAIL.
FOR EXTENSION RAFTER SPANS $15' < W \leq 25' < 40'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2.
FOR EXTENSION RAFTER SPANS $15' < W \leq 25' < 40'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2.
FOR EXTENSION RAFTER SPANS $15' < W \leq 25' < 40'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2.



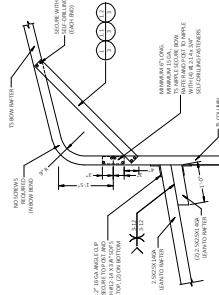
6B

SIZE: SEE TYPICAL MATERIAL CONNECTION DETAIL.
FOR LEAN-TO RAFTER SPANS $15' < W \leq 25' < 40'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2 OR 1.1.3.
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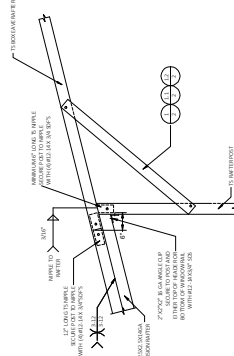
7B

SIZE: SEE TYPICAL MATERIAL CONNECTION DETAIL.
FOR EXTENSION RAFTER SPANS $15' < W \leq 25' < 40'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2.
FOR EXTENSION RAFTER SPANS $15' < W \leq 25' < 40'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2.
FOR EXTENSION RAFTER SPANS $15' < W \leq 25' < 40'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2.



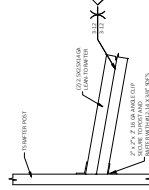
5C

SIZE: SEE TYPICAL MATERIAL CONNECTION DETAIL.
FOR EXTENSION RAFTER SPANS $15' < W \leq 25' < 40'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2.
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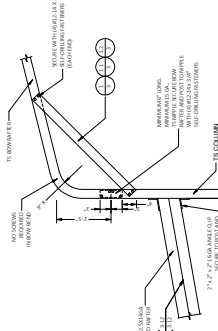
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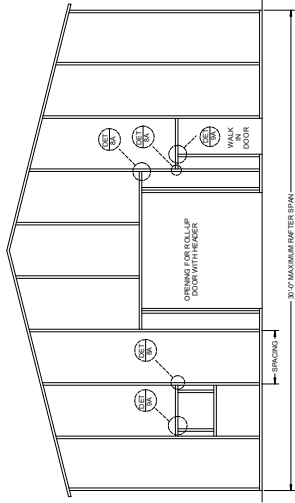
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7C

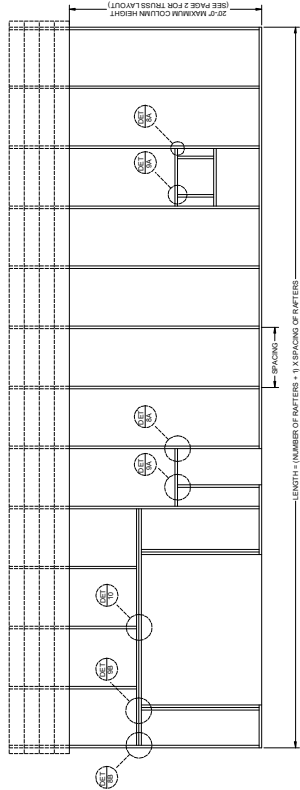
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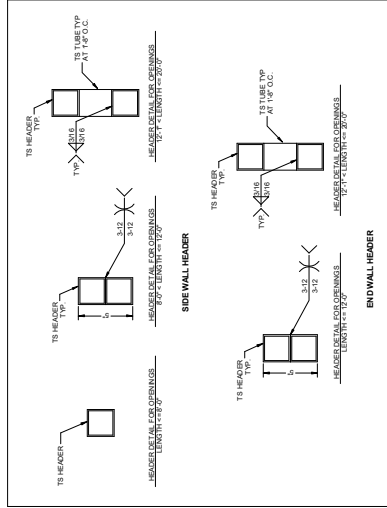
SPACING = 6'-0" FOR WIND SPEEDS BETWEEN 10 MPH AND 100 MPH
SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 100 MPH AND 100 MPH

TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION



LENGTH = (NUMBER OF RAFTERS - 1) SPACING OF RAFTERS
SPACING = 6'-0" FOR WIND SPEEDS BETWEEN 10 MPH AND 100 MPH
SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 100 MPH AND 100 MPH

TYPICAL BOX EAVE RAFTER SIDE WALL FRAMING SECTION



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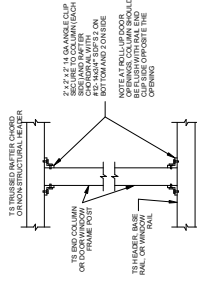
Digitally signed by Richard E. Walker
DN: cn=Richard E. Walker, o=FLORIDA ENGINEERING LLC, ou=FLORIDA ENGINEERING LLC, email=Richard.E.Walker@FLEng.com, c=US
Date: 2023.01.16 10:25:59-0500

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Orders@FLEng.com
CA CERT. #30782
PROJECT NO. 2322771-30-E

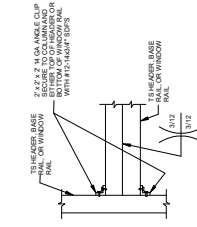


CONTRACTOR:
TUBULAR BUILDING SYSTEMS
631 SE INDUSTRIAL CIRCLE,
LAKE CITY, FL 32025
PROJECT DESCRIPTION:
30' WIDE X 20' HIGH
ENCLOSED STRUCTURE

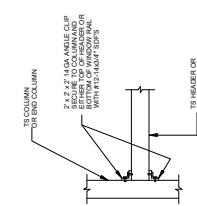
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REVISION 1:	DATE
REVISION 2:	DATE
SCALE:	NTS
PAGE:	7



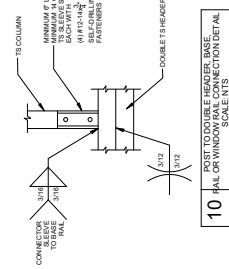
9A POST TO NON-STRUCTURAL HEADER BASE
SCALE: NTS



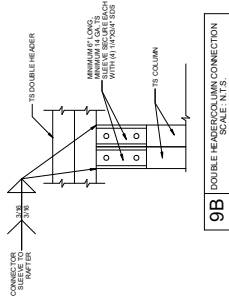
9B DOUBLE HEADER OR WINDOW RAIL
TO POST CONNECTION DETAIL
SCALE: NTS



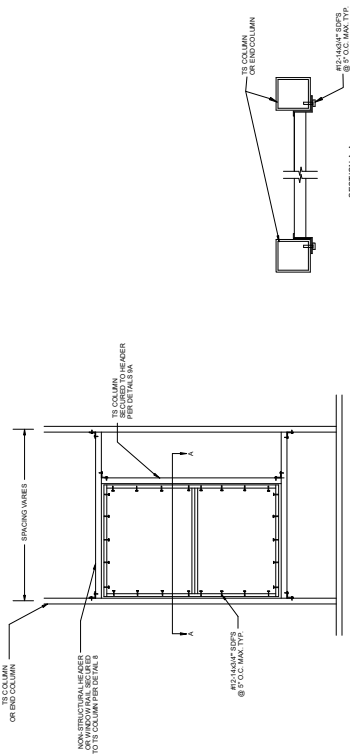
9C NON-STRUCTURAL HEADER OR WINDOW RAIL
TO POST CONNECTION DETAIL
SCALE: NTS



10 POST TO DOUBLE HEADER BASE
SCALE: NTS



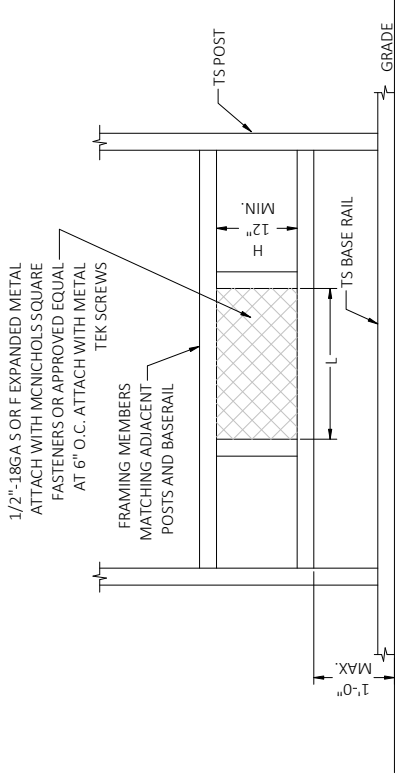
9B DOUBLE HEADER/ COLUMN CONNECTION
SCALE: NTS



SECTION A-A

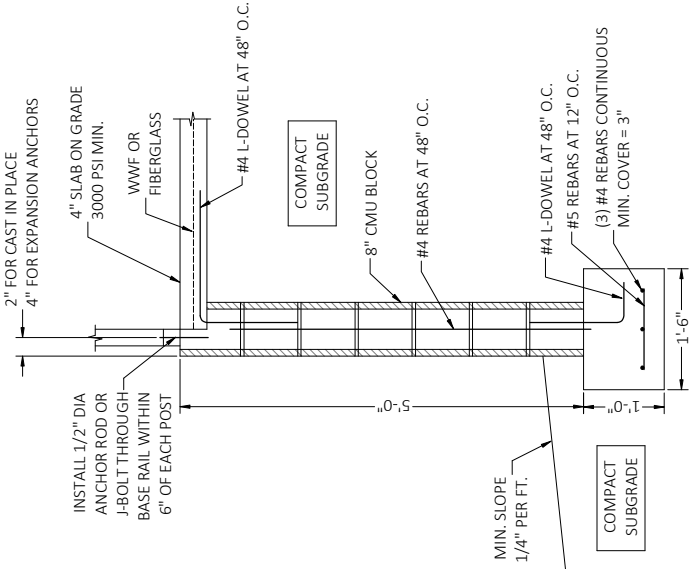
WINDOW INSTALLATION DETAILS
SCALE: NTS

11



TYPICAL FLOOD VENT DETAIL

- NOTES:
1. MINIMUM VENT SPACE REQUIRED = 1 SQ. IN. OF OPEN VENT AREA PER SQ. FT. OF BUILDING AREA.
 2. PROVIDE A MINIMUM OF TWO OPENINGS ON DIFFERENT SIDES OF EACH ENCLOSED BUILDING.
 3. APPLY A 1.3 FACTOR WHEN CALCULATING TOTAL OPEN AREA WHEN USING 1/2"-18GA S OR F EXPANDED METAL.
 4. TOTAL OPEN AREA OF VENT = L X H (MIN. 12").
 5. FLOOD VENT DETAIL COMPLIES WITH FEMA/NFIP.
 6. PREFABRICATED FLOOD VENTS MEETING THE REQUIREMENTS OF FEMA/NFIP MAY BE USED.



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

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2024.01.16

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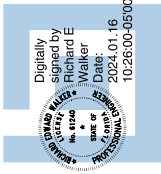
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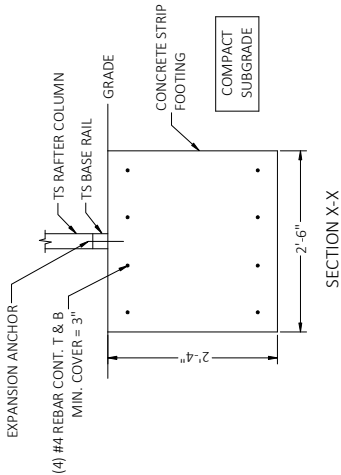
CONTRACTOR:		TUBULAR BUILDING SYSTEMS		631 SE INDUSTRIAL CIRCLE,		LAKE CITY, FL 32025	
PROJECT DESCRIPTION:		30' WIDE X 20' HIGH		ENCLOSED STRUCTURE			
DESIGN DATE:	12/14/2023	REVISION 1:	DATE	REVISION 2:	DATE	PAGE:	8
SCALE:	NTS						

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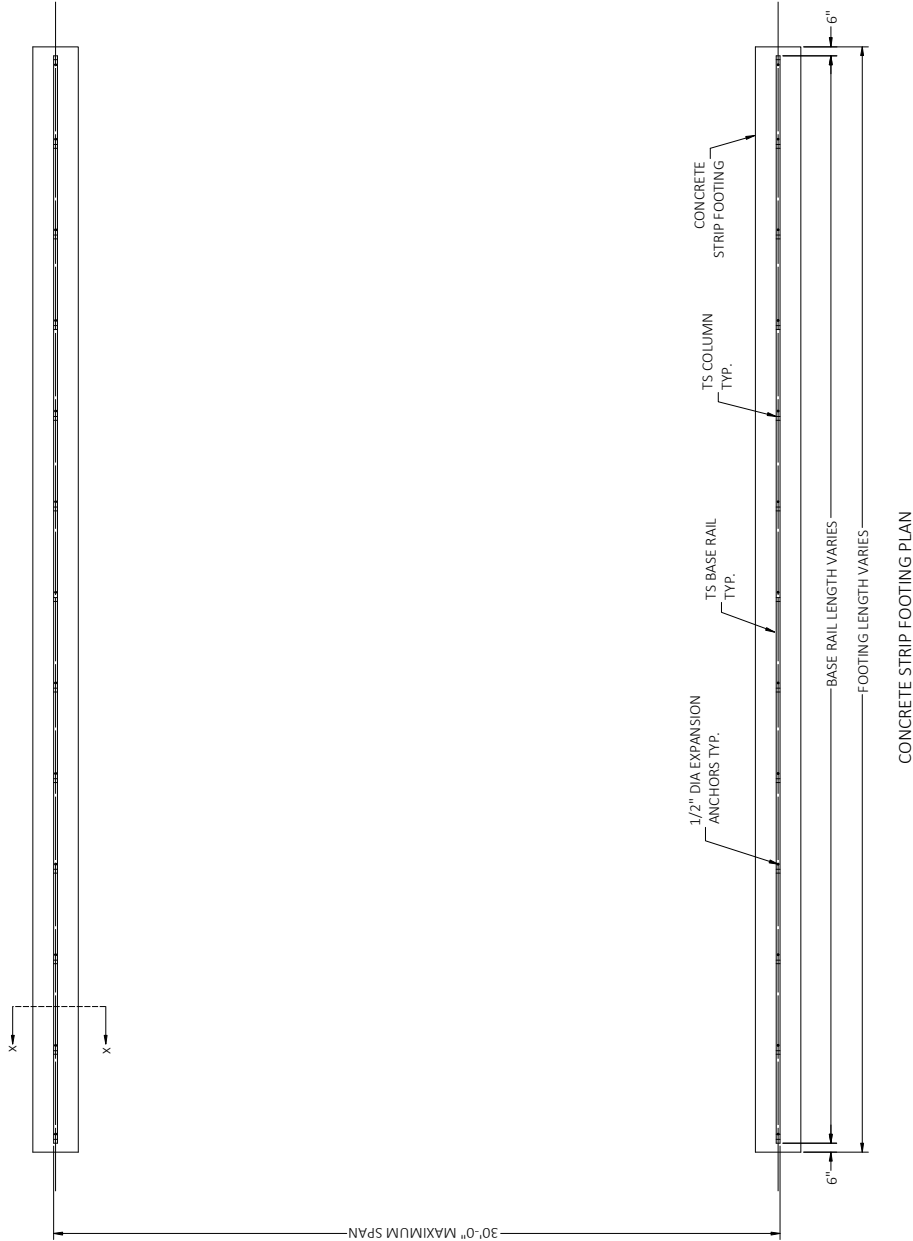


GENERAL NOTES:
CONCRETE MONOLITHIC SLAB DESIGN IS BASED ON A MINIMUM SOIL BEARING CAPACITY OF 1500 PSF.

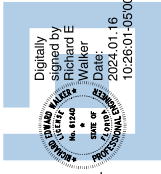
- CONCRETE:
MINIMUM 28-DAY SPECIFIED COMPRESSIVE STRENGTH = 3000 PSI
- REINFORCING STEEL:
1. TURNDOWN REINFORCING STEEL = ASTM A615 GRADE 60
2. SLAB REINFORCEMENT = WELDED WIRE FABRIC PER ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT
3. REINFORCING STEEL COVER = 3" WHERE CASE AGAINST AND PERMANENTLY EXPOSED TO SOIL OR WATER, 1.5" EVERYWHERE ELSE.
4. REINFORCEMENT IS BENT COLD.
5. MINIMUM INSIDE DIAMETER OF BEND = (6) BAR DIAMETERS
6. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.



OPTIONAL CONCRETE STRIP FOOTING



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CONTRACTOR:

PROJECT DESCRIPTION:

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