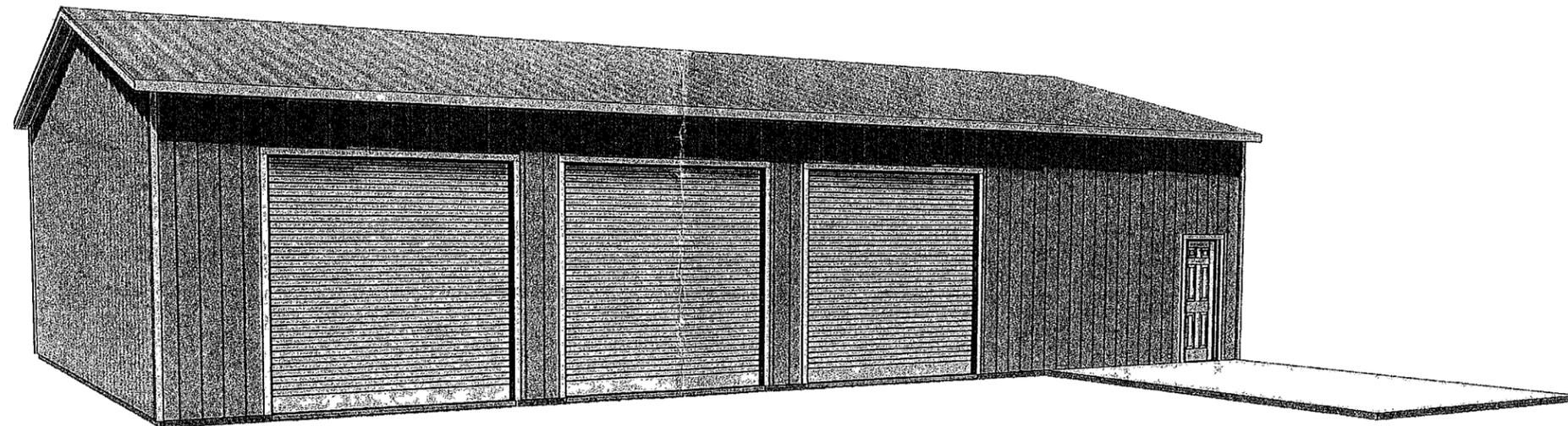


A NEW SHOP BUILDING FOR:

Jim Hollnagel

PROJECT ADDRESS:

225 SW BUSINESS POINT DRIVE
LAKE CITY, FLORIDA
(COLUMBIA COUNTY)



SHEET INDEX

- A1 EXTERIOR ELEVATIONS
- A2 DIMENSIONED FLOOR & ELECTRICAL
- A3 FRAMING DETAILS & NOTES

AREA SUMMARY

SHOP AREA	2,503	S F
OFFICE / RR AREA	297	S F
TOTAL AREA	2,800	S F

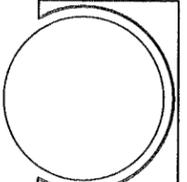
NOTE ALL DRAWINGS NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS

REVISIONS	
April 09, 2024	

SOFTPLAN

W.C. 2/24

A NEW SHOP BUILDING FOR:
Jim Hollnagel
PROJECT ADDRESS: 225 SW BUSINESS POINT DRIVE, LAKE CITY, FLORIDA (COLUMBIA COUNTY)



JOINT VENTURED WITH

© WM DESIGN & ASSOCIATES, INC.
426 SW COMMERCE DR. STE 130
LAKE CITY, FL 32025
(386) 768-8406
wm@wmyora.net



JOB NUMBER
20240406
DATE:
April 09, 2024

SHEET NUMBER
COVER

REVISIONS
April 10, 2024

SOFTPLAN
 PROFESSIONAL DESIGNER
 W.C. GARDNER

A NEW SHOP BUILDING FOR:
Jim Hollnagel
 PROJECT ADDRESS: 225 SW BUSINESS POINT DRIVE, LAKE CITY, FLORIDA (COLUMBIA COUNTY)



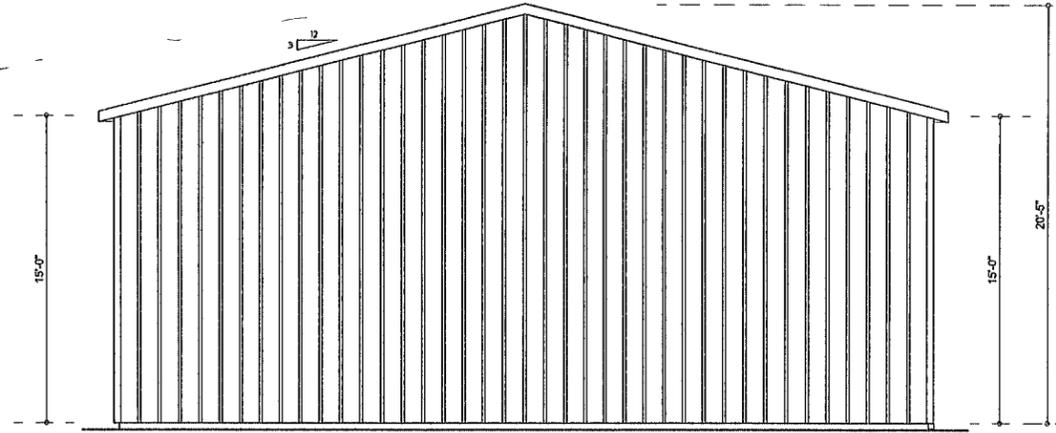
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 (386) 758-8406
 wmi@wmjca.com

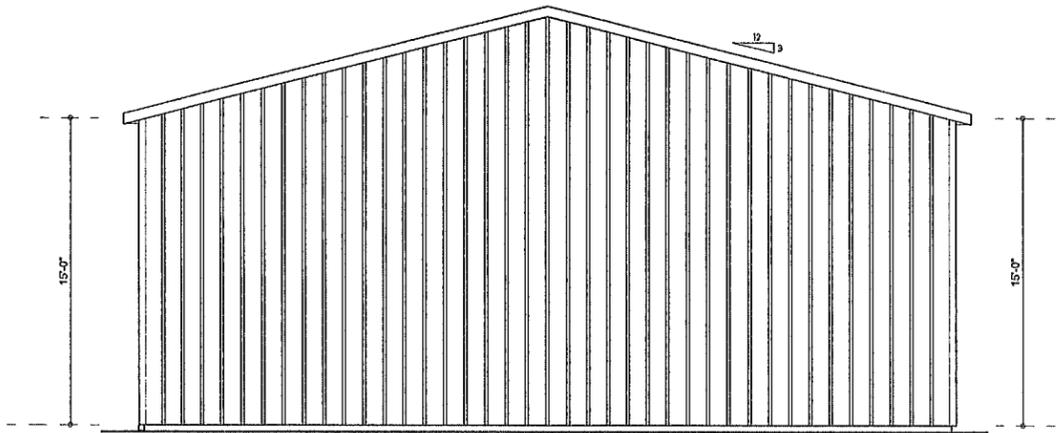


JOB NUMBER
20240406
 DATE
 April 10, 2024

SHEET NUMBER
A.1



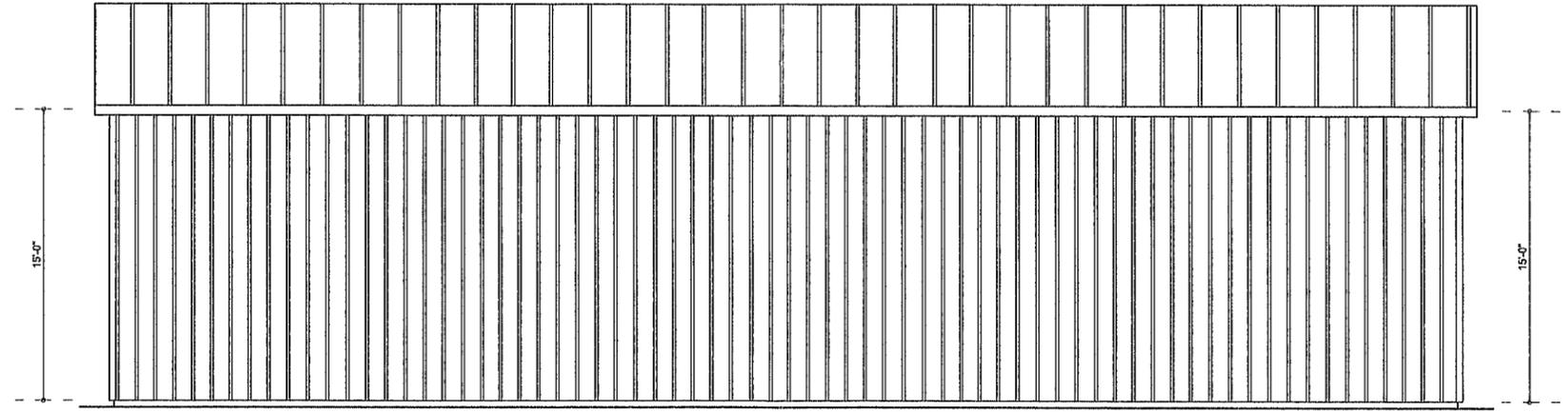
LEFT ELEVATION
 SCALE: 1/4" = 1'-0"



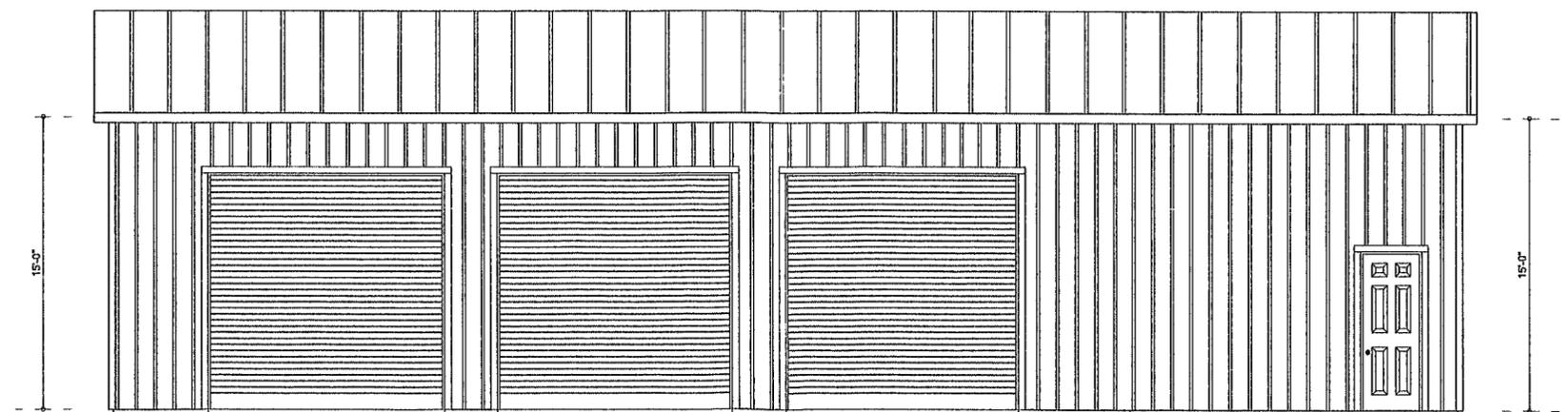
RIGHT ELEVATION
 SCALE: 1/4" = 1'-0"

STRUCTURAL DESIGN CRITERIA

- THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2023 FLORIDA BUILDING CODE (18TH EDITION) AND OTHER REFERENCED CODES AND SPECIFICATIONS. ALL CODES AND SPECIFICATIONS SHALL BE LATEST EDITION AT TIME OF PERMIT
- WIND LOAD CRITERIA- RISK CATAGORY 2. EXPOSURE: "B"
 BASED ON ANSI/AISC 1-16. 2023 FBC 1609-A WIND VELOCITY $V_{AS} = 130$ MPH
 $V_{AS} = 101$ MPH
- ROOF DESIGN LOADS:
 SUPERIMPOSED DEAD LOADS: 20 PSF
 SUPERIMPOSED LIVE LOADS: 20 PSF
- FLOOR DESIGN LOADS:
 SUPERIMPOSED DEAD LOADS: 25 PSF
 SUPERIMPOSED LIVE LOADS: 40 PSF
 RESIDENTIAL BALCONIES: 60 PSF
- WIND NET UPLIFT ARE AS INDICATED ON PLANS



REAR ELEVATION
 SCALE: 1/4" = 1'-0"



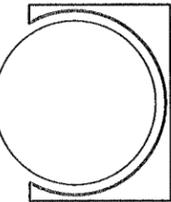
FRONT ELEVATION
 SCALE: 1/4" = 1'-0"

NOTE ALL DRAWINGS NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS

REVISIONS	April 10, 2024
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SOFTPLAN
ARCHITECTURAL DESIGN & CONSTRUCTION
WMC-977

A NEW SHOP BUILDING FOR:
Jim Hollnagel
PROJECT ADDRESS: 225 SW BUSINESS POINT DRIVE, LAKE CITY, FLORIDA (COLUMBIA COUNTY)



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(386) 768-8406
wme@wmejars.net

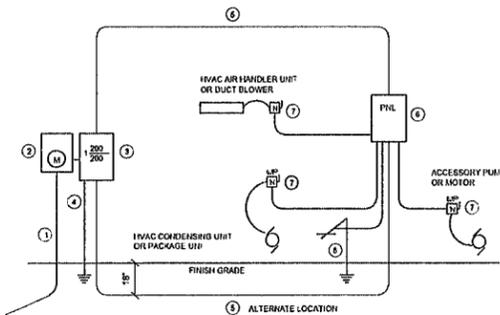


JOB NUMBER
20240406
DATE:
April 10, 2024

SHEET NUMBER
A.2

ELECTRICAL LEGEND	
	CEILING FAN (PRE-WIRE FOR LIGHT KIT)
	DOUBLE SECURITY LIGHT
	RECESSED CAN LIGHT
	BATH EXHAUST FAN
	LIGHT FIXTURE
	DUPLEX OUTLET (AFCI & TAMPER RESISTANT)
	220V OUTLET
	GFI DUPLEX OUTLET (PER NEC 406.6)
	TELEVISION JACK
	ETHERNET JACK
	CIRCUIT FOR MINI-SPLIT A/C UNIT
	SMOKE / CARBON MONOXIDE DETECTOR (see note below)
	WALL SWITCH
	DIMMER WALL SWITCH
	3 WAY WALL SWITCH
	WATER PROOF GFI OUTLET
	2 OR 4 STRIP LED FIXTURE

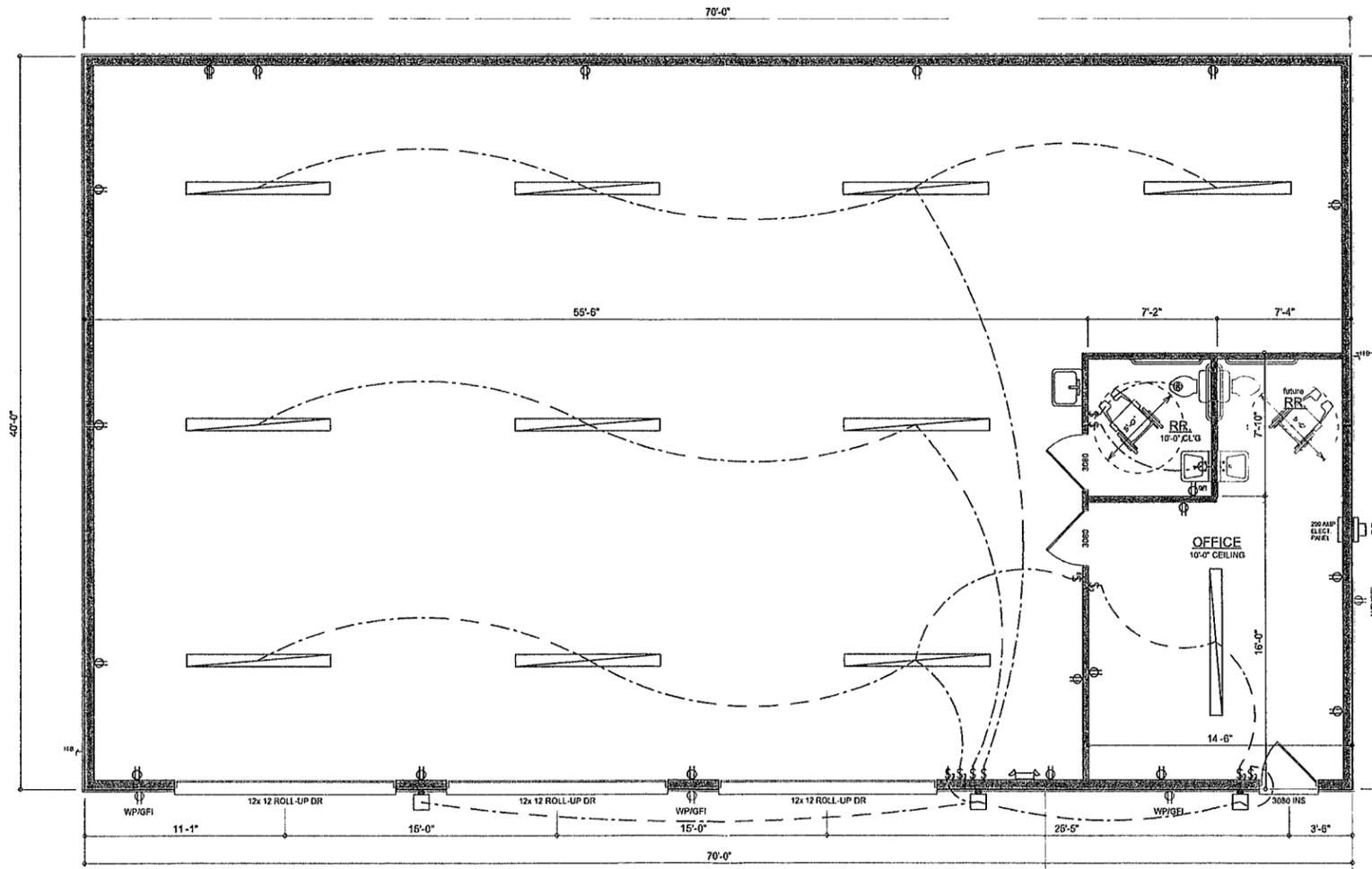
NOTE:
ALL INTERIOR RECEPTACLES SHALL BE AFCI (ARC FAULT CIRCUIT INTERRUPT) PER NEC 210.12 & TAMPER RESISTANT PER NEC 406.11
ALL INTERIOR & EXTERIOR LIGHTING SHALL MEET OR EXCEED THE MIN. 76% HIGH-EFFICIENCY LIGHTING PER FCC-ENERGY CONSERVATION R404.
ALL SMOKE DETECTORS BE A COMBO SMOKE & CARBON MONOXIDE DETECTOR AND SHALL HAVE BATTERY BACKUP POWER AND ALL WIRED TOGETHER SO IF ANY ONE UNIT IS ACTUATED THEY ALL ACTIVATE.
THE ELECTRICAL SERVICE OVERCURRENT PROTECTION DEVICE SHALL BE INSTALLED ON THE EXTERIOR OF STRUCTURES TO SERVE AS A DISCONNECT MEANS CONDUCTORS USED FROM THE EXTERIOR DISCONNECTING MEANS TO A PANEL OR SUB PANEL SHALL HAVE FOUR-WIRE CONDUCTORS, OF WHICH ONE CONDUCTOR SHALL BE USED AS AN EQUIPMENT GROUND.
IT IS THE LICENSED ELECTRICAL CONTRACTORS RESPONSIBILITY TO INSURE THAT ALL WORK PERFORMED AND EQUIPMENT INSTALLED MEETS OR EXCEEDS THE 2020 (NFPA-70) NATIONAL ELECTRIC CODE AND ALL OTHER LOCAL CODES AND ORDINANCES.



- Service/Entrance Conductors: 2" rigid conduit, min. 18" deep w/ continuous Grounding Conductor. Service/Entrance Conductors shall not be spliced except that bonded conductors at the Meter Disconnecting Devices and Panel shall be allowed.
- Motor Enclosure, weatherproof U.L. Listed.
- Main Disconnect Switch: fused or Main BRKR, weatherproof U.L. Listed.
- Service entrance Grounding: 1" stainless steel 8'-0" long and/or concrete encased foundation steel with a 20'-0" long Grounding Conductor shall be bonded to each piece of Service/Entrance Equipment, and shall be sized per Item #5, below.
- 200 AMPERE SERVICE 3-WIRE-USE-Cu, 1-#4-Cu-GND, 2" Conduit.
- House Panel (PANEL) U.L. Listed, rated per schedule.
- Equipment Disconnect Switch: non-fused, in weatherproof enclosure also according to Panel Schedule loads.
- Provide Ground Bond Wire to metal piping, size in accordance with the Service Ground Conductor.

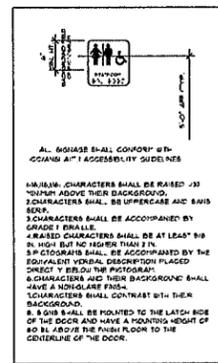
NOTE:
THE MINIMUM AIC RATING FOR PANEL BOARDS, BRKRS AND DISCONNECT SWITCHES SHALL BE 22,000 AIC.

ELECTRICAL RISER DIAGRAM: 200A
SCALE: NONE

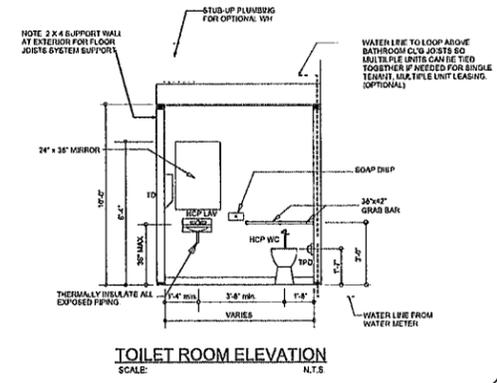


DIMENSIONED FLOOR PLAN & ELECTRICAL

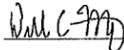
SCALE: 1/4" = 1'-0"
NOTE: ALL WALLS SHALL BE 15'-0" UNLESS OTHERWISE NOTED



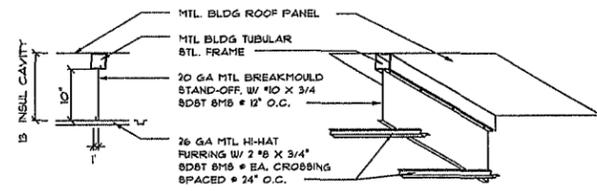
MINIMUM CHARACTERS SHALL BE RAISED 1/32" TO CLEAR ABOVE THEIR BACKGROUND.
CHARACTERS SHALL BE UNIFORM AND 8-1/2" HIGH.
CHARACTERS SHALL BE ACCOMPANIED BY GRADE 1 PALLAS.
RAISED CHARACTERS SHALL BE AT LEAST 3/8" IN HIGH BUT NO HIGHER THAN 1/2" IN.
IF CHARACTERS SHALL BE ACCOMPANIED BY THE EQUIVALENT SYMBOL DESCRIPTION PLACED DIRECTLY BELOW THE PHOTOGRAPH.
CHARACTERS AND THEIR BACKGROUND SHALL HAVE A MINIMUM CONTRAST OF 70%.
CHARACTERS SHALL BE MOUNTED TO THE LATCH SIDE OF THE DOOR AND HAVE A MOUNTING HEIGHT OF 60" IN. (AS OF THE FINISH FLOOR TO THE CENTERLINE OF THE DOOR).



REVISIONS	April 10, 2024
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SOFTPLAN
 MECHANICAL DESIGN SOFTWARE


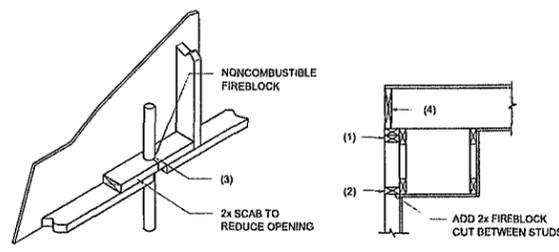
A NEW SHOP BUILDING FOR:
Jim Hollnagel
 PROJECT ADDRESS: 225 SW BUSINESS POINT DRIVE, LAKE CITY, FLORIDA (COLUMBIA COUNTY)



SECTION ISOMETRIC

NOTE
 ATTACH REG. 5/8" GWB OR 1/2" HI-STRENGTH
 GWB TO METAL HI-HAT FURRING AS PER
 MANUFACTURER'S INSTRUCTIONS

FURRED CEILING DETAIL (optional)
 SCALE: 3/4" = 1'-0"



PENETRATIONS SOFFIT/DROPPED CLG

FIREBLOCKING NOTES

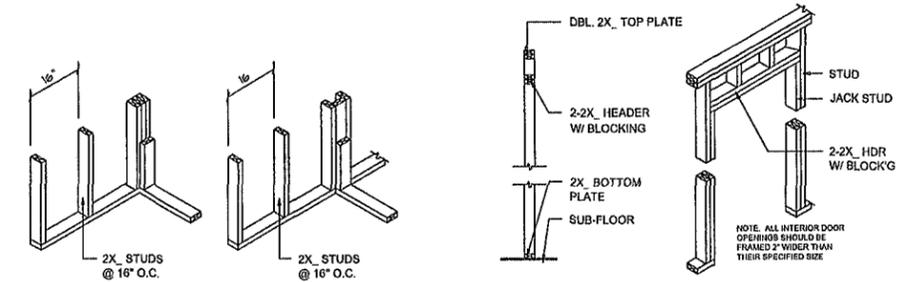
FIREBLOCKING SHALL BE INSTALLED IN WOOD FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:

1. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED SPACES AT CEILING AND FLOOR LEVELS.
2. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, COVE CEILINGS, ETC.
3. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH "PYRO PANEL MULTIFLEX SEALANT"
4. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS. FIREBLOCKING SHALL BE PROVIDED FOR THE FULL DEPTH OF THE JOISTS AT THE ENDS AND OVER THE SUPPORTS.

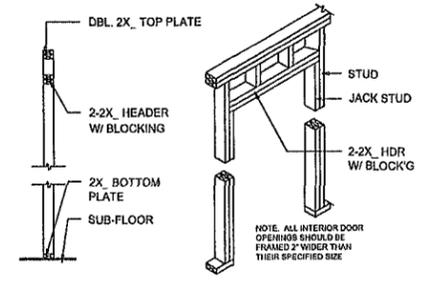
Fire Stopping DETAILS

SCALE: NONE

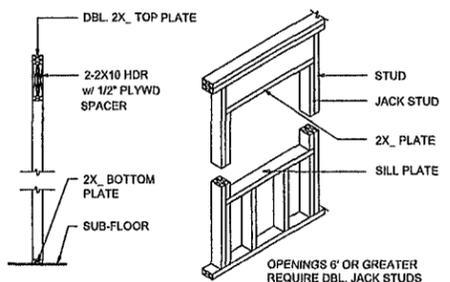
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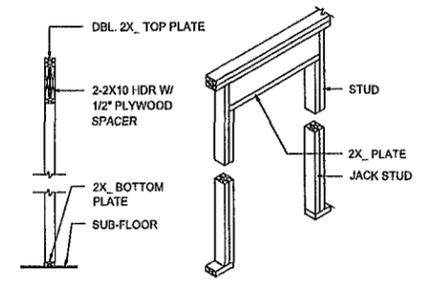
WALL CORNER WALL INTERSECTION



NON-BEARING WALL HEADER



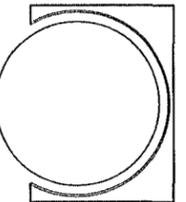
TYPICAL WINDOW HEADER



BEARING WALL HEADER

Wall Framing/Header DETAILS

SCALE: NONE



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 (386) 758-8406
 wj@wjdesign.com



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 DATE
 April 10, 2024

SHEET NUMBER
 A.3

MINIMUM ACCEPTABLE DESIGN PRESSURES - CLADDING

psf	ROOF DECK (psf)			
	1/2e	2n	2r/3e	3r
Vult	-65.1	-84.6	-95.0	-102.0
Vasd	-39.1	-50.8	-57.0	-61.2

psf	STRUCTURAL SIDING (psf)			
	4	5	5	5
Vult	+30.6	-33.6	+30.6	-38.0
Vasd	+18.4	-20.2	+18.4	-22.8

DESIGN CRITERIA

Building Details

building risk category: **II**
 wind exposure: **B**
 internal pressure (gpci): **±0.18** (enclosed)
 ultimate wind velocity (Vult): **140** mph
Design Loads
 dead load: **2** psf
 live load: **20** psf (table 1607.1, fbc8-2023)
 wind loads: **see table to left**

vertical roof/walls
ENCLOSED BUILDING

building size
40'W X 70' X 15'EH
 building location
225 SW BUSINESS POINT DRIVE
 lake city, florida 32025
 (columbla county)

GENERAL NOTES
 ALL CONSTRUCTION AND WORKMANSHIP SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, 8TH EDITION (2023), ITS RESIDENTIAL AND BUILDING VOLUMES, AND APPLICABLE STANDARDS REFERENCED THEREIN.

PROCEDURES OF CONSTRUCTION ARE TO ADHERE TO OSHA REQUIREMENTS ALWAYS. THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR DETERMINING AND EFFECTING THE MEANS, METHODS AND SEQUENCING OF ALL CONSTRUCTION.

CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED, TO THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE 'SHOP DRAWINGS', 'VENDOR DRAWINGS' OR MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR.

WHEN CONFLICTS EXIST AMONG THE VARIOUS PARTS OF THE STRUCTURAL CONTRACT DOCUMENTS; I.E., STRUCTURAL DRAWINGS, GENERAL NOTES AND SPECIFICATIONS, PRODUCT APPROVALS, ETC., THE MORE STRINGENT/CONSERVATIVE REQUIREMENTS, AS DETERMINED BY THE ENGINEER-OF-RECORD, SHALL GOVERN.

MATERIALS/ STRUCTURAL
 STRUCTURAL DRAWINGS PROVIDE SUFFICIENT INFORMATION TO CONVEY PROJECT DESIGN INTENT. IF ERRORS, INCONSISTENCIES OR OMISSIONS ARE DISCOVERED, PROMPTLY NOTIFY ENGINEER BEFORE PROCEEDING.

DETAILS LABELED AS "TYPICAL" ON THE STRUCTURAL DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR PHYSICALLY SIMILAR TO THOSE SITUATIONS SPECIFICALLY DETAILED. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION ON THE PLANS CAN BE ASCERTAINED BY THE DETAIL TITLE AND/OR BEST PROFESSIONAL JUDGEMENT. SUCH DETAILS SHALL APPLY WHETHER KEVED TO THE SPECIFIC LOCATION OR NOT. THE APPLICABILITY OF TYPICAL DETAILS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SUBJECT TO APPROVAL BY OF THE ENGINEER-OF-RECORD.

ALL STRUCTURAL ELEMENTS OF THE PROJECT HAVE BEEN DESIGNED BY THE ENGINEER-OF-RECORD TO RESIST CODE-REQUIRED VERTICAL AND/OR LATERAL-FORCES THAT COULD BE EXPERIENCED IN THE FINAL COMPLETED STRUCTURE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL REQUIRED BRACING DURING CONSTRUCTION TO MAINTAIN THE STABILITY AND SAFETY OF ALL ELEMENTS UNTIL THE LATERAL LOAD-RESISTING OR STABILITY-PROVIDING SYSTEM IS COMPLETELY INSTALLED AND STRUCTURE IS COMPLETELY TIED TOGETHER.

ALL SIDING AND ROOFING SHALL BE A MINIMUM 29 GAUGE, ATTACHED TO STEEL FRAME AS SHOWN ON PLANS, AND HAVE A MINIMUM EFFECTIVE COVERAGE SPAN OF 36 INCHES.

ALL FRAMING MEMBERS AND PURLINS SHALL BE A MINIMUM 16 GAUGE.

LIFE SAFETY
 TYPE OF CONSTRUCTION:
 TYPE II-B (LIGHT-FRAME NONCOMBUSTIBLE)
 INTENDED USE AND OCCUPANCY:
 GROUP U (UTILITY/MISCELLANEOUS)

CERTIFICATION OF PLAN BY DESIGN PROFESSIONAL
 I HEREBY CERTIFY THAT I HAVE REVIEWED/EXAMINED THE COMPONENTS AND CLADDING PROPOSED FOR THIS LIGHT-WEIGHT STEEL, OPEN-FRAME BUILDING. THE MATERIALS, COMPONENTS AND CLADDING WERE EVALUATED USING VULT/VASD STRESS DESIGN.

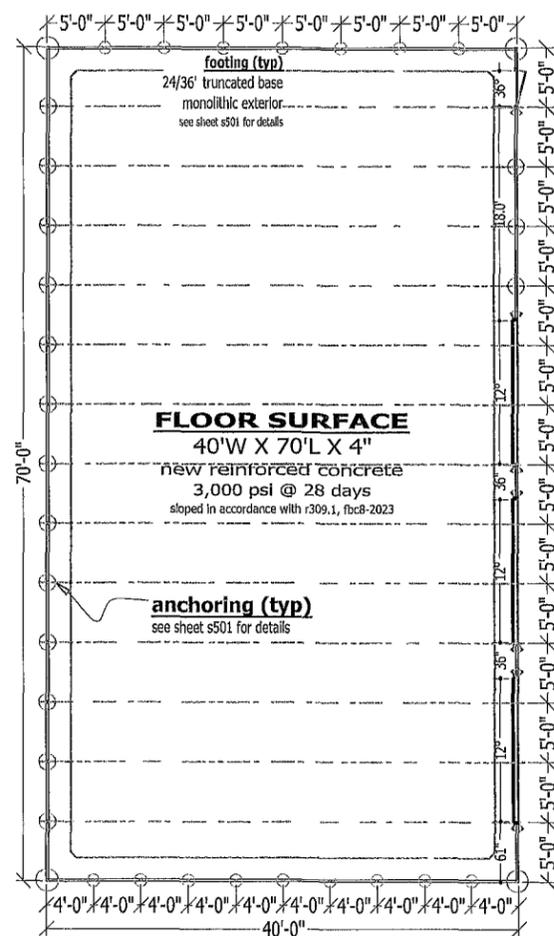
FOR THE INTENDED USE AND OCCUPANCY, THE MATERIALS, COMPONENTS AND THEIR INSTALLATION, AS DESCRIBED, COMPLY WITH THE FLORIDA BUILDING CODE, 8TH EDITION (2023), ITS RESIDENTIAL AND BUILDING VOLUMES; AS WELL AS APPLICABLE STANDARDS REFERENCED THEREIN.

CERTIFICATION OF DIGITAL DOCUMENT
 THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY MICHAEL E HOWELLER, PE ON THE DATE AND/OR TIME STAMP SHOWN USING A DIGITAL SIGNATURE.

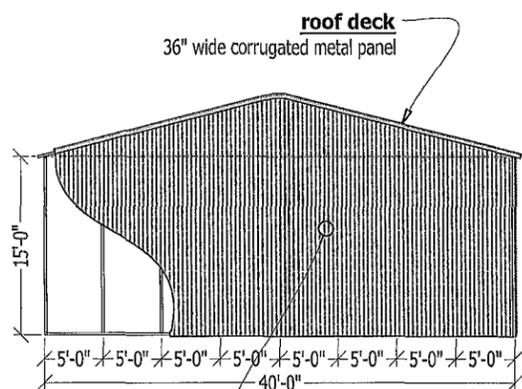
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPY.



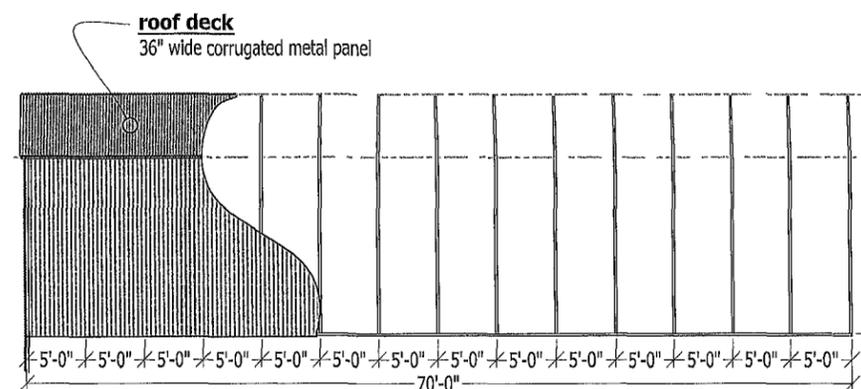
sheet number
 building plan and composites
S-201
 hollnagel



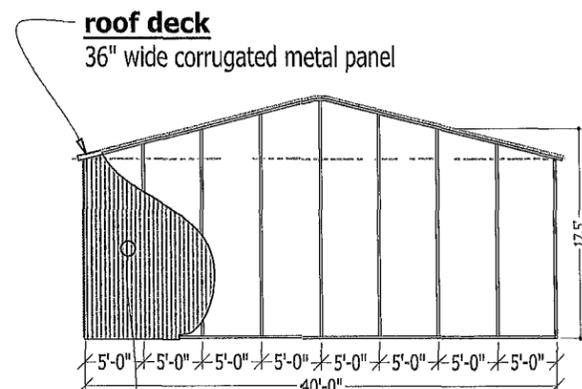
foundation, anchoring and floor plan
 proportional scale



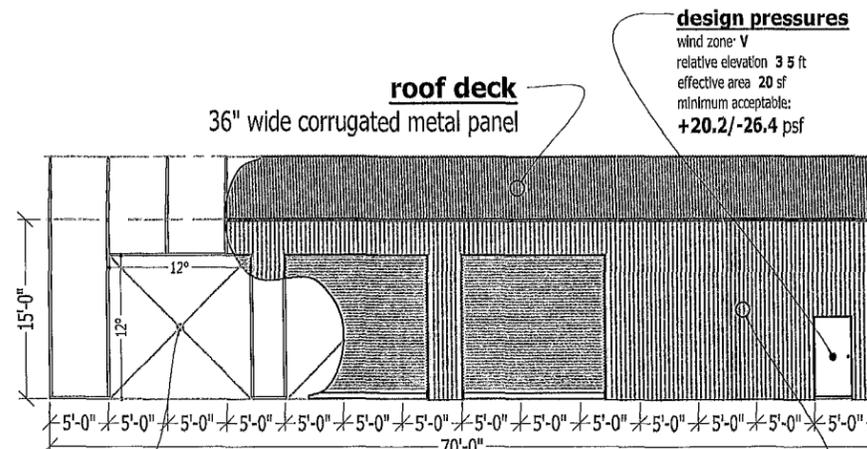
rear gable composite
 proportional scale



left side composite
 proportional scale



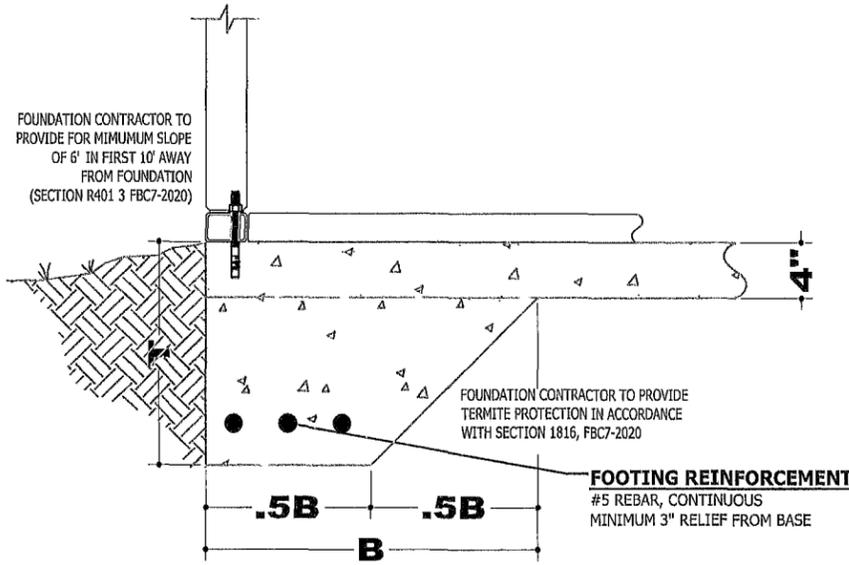
front gable composite
 proportional scale



right side composite
 proportional scale

design pressures
 wind zone: V
 relative elevation: 6 ft
 effective area: 144 sf
 minimum acceptable:
 +17.5/-21.0 psf

design pressures
 wind zone: V
 relative elevation: 3.5 ft
 effective area: 20 sf
 minimum acceptable:
 +20.2/-26.4 psf

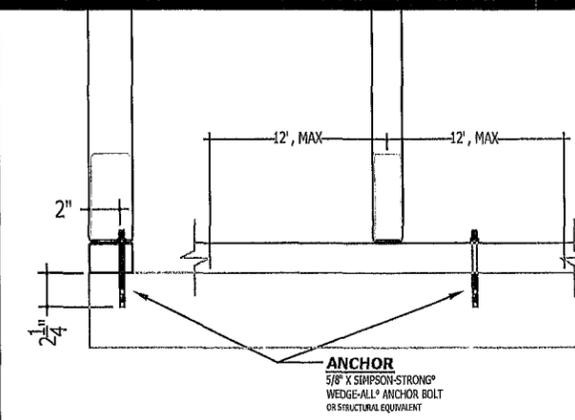


ENCLOSED BUILDING FOOTING (PRESCRIPTIVE)

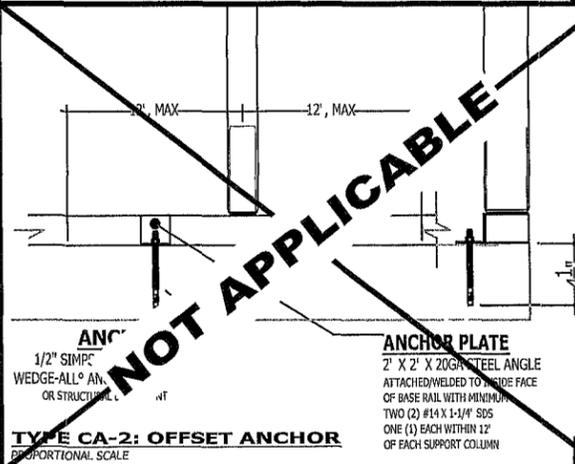
GABLE WIDTH	T	B	#5 REBAR
UP TO 24'-0"	12"	12"	ONE (1)
>24'-0" UP TO 36'-0"	12"	16"	TWO (2)
>36'-0" UP TO 42'-0"	16"	24"	TWO (2)
>42'-0" UP TO 60'-0"	24"	36"	THREE (3)

SLAB-ON-GRADE: THICKENED EDGE

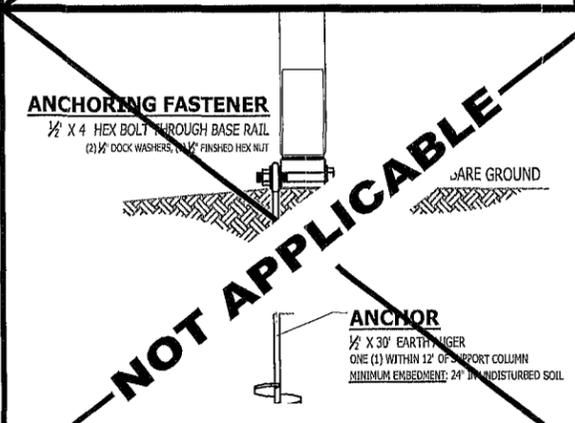
NOT TO SCALE



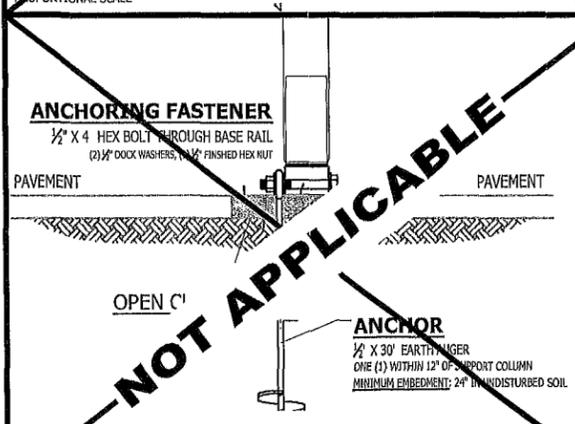
TYPE CA-1: DIRECT ANCHOR
PROPORTIONAL SCALE



TYPE CA-2: OFFSET ANCHOR
PROPORTIONAL SCALE



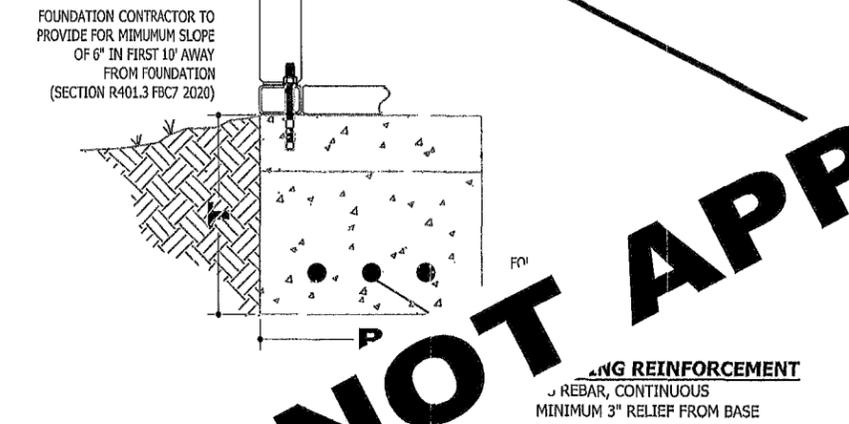
TYPE GA-1: DIRECT GROUND
PROPORTIONAL SCALE



TYPE GA-2: GROUND THROUGH PAVEMENT
PROPORTIONAL SCALE

OPEN CAP FOOTING

GABLE WIDTH	T	B	#5 REBAR
UP TO 24'-0"	12"	8"	ONE (1)
>24'-0" UP TO 36'-0"	12"	12"	TWO (2)
>36'-0" UP TO 42'-0"	16"	16"	TWO (2)
>42'-0" UP TO 60'-0"	24"	24"	THREE (3)



FOOTER ONLY

NOT TO SCALE

building type
vertical roof/walls
ENCLOSED BUILDING

building size
40'W X 70' X 15'EH

building location
225 SW BUSINESS POINT DRIVE
lake city, florida 32025
(columbia county)

NOTICE TO OWNER-BUILDER

FLORIDA STATE LAW REQUIRES CONSTRUCTION TO BE DONE BY LICENSED CONTRACTORS IF YOU HAVE APPLIED FOR A PERMIT UNDER AN EXEMPTION TO THAT LAW THE EXEMPTION ALLOWS YOU, AS THE OWNER OF YOUR PROPERTY, TO ACT AS YOUR OWN CONTRACTOR WITH CERTAIN RESTRICTIONS EVEN THOUGH YOU DO NOT HAVE A LICENSE

YOU MUST PROVIDE DIRECT, ONSITE SUPERVISION OF THE CONSTRUCTION YOURSELF YOU MAY BUILD OR IMPROVE A ONE-FAMILY OR TWO-FAMILY RESIDENCE OR A FARM OUTBUILDING YOU MAY ALSO BUILD OR IMPROVE A COMMERCIAL BUILDING, PROVIDED YOUR COSTS DO NOT EXCEED \$75,000.

THE BUILDING OR RESIDENCE MUST BE FOR YOUR OWN USE OR OCCUPANCY IT MAY NOT BE BUILT OR SUBSTANTIALLY IMPROVED FOR SALE OR LEASE IF YOU SELL OR LEASE A BUILDING YOU HAVE BUILT OR SUBSTANTIALLY IMPROVED YOURSELF WITHIN 1 YEAR AFTER THE CONSTRUCTION IS COMPLETE, THE LAW WILL PRESUME THAT YOU BUILT OR SUBSTANTIALLY IMPROVED IT FOR SALE OR LEASE, WHICH IS A VIOLATION OF THIS EXEMPTION.

YOU MAY NOT HIRE AN UNLICENSED PERSON TO ACT AS YOUR CONTRACTOR OR TO SUPERVISE PEOPLE WORKING ON YOUR BUILDING IT IS YOUR RESPONSIBILITY TO MAKE SURE THAT PEOPLE EMPLOYED BY YOU HAVE A LICENSE REQUIRED BY STATE LAW AND BY COUNTY, OR MUNICIPAL LICENSING ORDINANCES. YOU MAY NOT DELEGATE THE RESPONSIBILITY FOR SUPERVISING WORK TO A LICENSED CONTRACTOR WHO IS NOT LICENSED TO PERFORM THE WORK BEING DONE, ANY PERSON WORKING ON YOUR BUILDING WHO IS NOT LICENSED MUST WORK UNDER YOUR DIRECT SUPERVISION AND MUST BE EMPLOYED BY YOU, WHICH MEANS THAT YOU MUST DEDUCT F.I.C.A AND WITHHOLDING TAX AND PROVIDE WORKERS COMPENSATION FOR THAT EMPLOYEE, ALL AS PRESCRIBED BY LAW

YOUR CONSTRUCTION MUST COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, BUILDING CODES, AND ZONING REGULATIONS.

LICENSED CONTRACTORS ARE REGULATED BY LAWS DESIGNED TO PROTECT THE PUBLIC IF YOU CONTRACT WITH A PERSON WHO DOES NOT HAVE A LICENSE, THE CONSTRUCTION INDUSTRY LICENSING BOARD AND DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION MAY BE UNABLE TO ASSIST YOU WITH ANY FINANCIAL LOSS THAT YOU SUSTAIN AS A RESULT OF A COMPLAINT YOUR ONLY REMEDY AGAINST AN UNLICENSED CONTRACTOR MAY BE IN CIVIL COURT

IT IS ALSO IMPORTANT FOR YOU TO UNDERSTAND THAT, IF AN UNLICENSED CONTRACTOR OR EMPLOYEE OF AN INDIVIDUAL OR FIRM IS INJURED WHILE WORKING ON YOUR PROPERTY, YOU MAY BE HELD LIABLE FOR DAMAGES. IF YOU OBTAIN AN OWNER-BUILDER PERMIT AND WISH TO HIRE A LICENSED CONTRACTOR, YOU WILL BE RESPONSIBLE FOR VERIFYING WHETHER THE CONTRACTOR IS PROPERLY LICENSED AND THE STATUS OF THE CONTRACTOR'S WORKERS' COMPENSATION COVERAGE.

CERTIFICATION OF PLAN BY DESIGN PROFESSIONAL

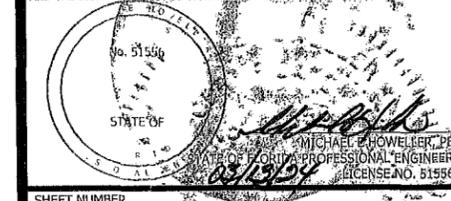
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FOR THE INTENDED USE AND OCCUPANCY, THE MATERIALS, COMPONENTS AND THEIR INSTALLATION, AS DESCRIBED, COMPLY WITH THE FLORIDA BUILDING CODE, 8TH EDITION (2023); ITS RESIDENTIAL AND BUILDING VOLUMES; AS WELL AS APPLICABLE STANDARDS REFERENCED THEREIN.

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SHEET NUMBER
footing & anchoring details
S-501

MINIMUM ACCEPTABLE DESIGN PRESSURES - CLADDING

psf	ROOF DECK (psf)			
	1/2e	2n	2r/3e	3r
Vult	-65.1	-84.6	-95.0	-102.0
Vasd	-39.1	-50.8	-57.0	-61.2

psf	STRUCTURAL SIDING (psf)			
	4	5	5	5
Vult	+30.6	-33.6	+30.6	-38.0
Vasd	+18.4	-20.2	+18.4	-22.8

DESIGN CRITERIA

Building Details

building risk category: **II**
 wind exposure: **B**
 internal pressure (gcp): **±0.18** (enclosed)
 ultimate wind velocity (Vult): **140** mph
Design Loads
 dead load: **2** psf
 live load: **20** psf (table 1607.1, fbc8-2023)
 wind loads: **see table to left**

building type
 vertical roof/walls
ENCLOSED BUILDING

building size
40'W X 70' X 15'EH

building location
225 SW BUSINESS POINT DRIVE
 lake city, florida 32025
 (columbia county)

GENERAL NOTES
 ALL CONSTRUCTION AND WORKMANSHIP SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, 8TH EDITION (2023), ITS RESIDENTIAL AND BUILDING VOLUMES, AND APPLICABLE STANDARDS REFERENCED THEREIN.

PROCEDURES OF CONSTRUCTION ARE TO ADHERE TO OSHA REQUIREMENTS ALWAYS. THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR DETERMINING AND EFFECTING THE MEANS, METHODS AND SEQUENCING OF ALL CONSTRUCTION.

CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED, TO THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE 'SHOP DRAWINGS', 'VENDOR DRAWINGS' OR MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR.

WHEN CONFLICTS EXIST AMONG THE VARIOUS PARTS OF THE STRUCTURAL CONTRACT DOCUMENTS; I.E., STRUCTURAL DRAWINGS, GENERAL NOTES AND SPECIFICATIONS, PRODUCT APPROVALS, ETC., THE MORE STRINGENT/CONSERVATIVE REQUIREMENTS, AS DETERMINED BY THE ENGINEER-OF-RECORD, SHALL GOVERN.

MATERIALS/ STRUCTURAL
 STRUCTURAL DRAWINGS PROVIDE SUFFICIENT INFORMATION TO CONVEY PROJECT DESIGN INTENT. IF ERRORS, INCONSISTENCIES OR OMISSIONS ARE DISCOVERED, PROMPTLY NOTIFY ENGINEER BEFORE PROCEEDING.

DETAILS LABELED AS "TYPICAL" ON THE STRUCTURAL DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR PHYSICALLY SIMILAR TO THOSE SITUATIONS SPECIFICALLY DETAILED. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION ON THE PLANS CAN BE ASCERTAINED BY THE DETAIL TITLE AND/OR BEST PROFESSIONAL JUDGEMENT. SUCH DETAILS SHALL APPLY WHETHER KEVED TO THE SPECIFIC LOCATION OR NOT. THE APPLICABILITY OF TYPICAL DETAILS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SUBJECT TO APPROVAL BY OF THE ENGINEER-OF-RECORD.

ALL STRUCTURAL ELEMENTS OF THE PROJECT HAVE BEEN DESIGNED BY THE ENGINEER-OF-RECORD TO RESIST CODE-REQUIRED VERTICAL AND/OR LATERAL FORCES THAT COULD BE EXPERIENCED IN THE FINAL COMPLETED STRUCTURE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL REQUIRED BRACING DURING CONSTRUCTION TO MAINTAIN THE STABILITY AND SAFETY OF ALL ELEMENTS UNTIL THE LATERAL LOAD-RESISTING OR STABILITY-PROVIDING SYSTEM IS COMPLETELY INSTALLED AND STRUCTURE IS COMPLETELY TIED TOGETHER.

ALL SIDING AND ROOFING SHALL BE A MINIMUM 29 GAUGE, ATTACHED TO STEEL FRAME AS SHOWN ON PLANS, AND HAVE A MINIMUM EFFECTIVE COVERAGE SPAN OF 36 INCHES.

ALL FRAMING MEMBERS AND PURLINS SHALL BE A MINIMUM 16 GAUGE

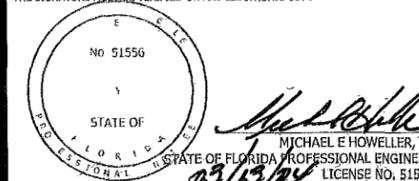
LIFE SAFETY
 TYPE OF CONSTRUCTION:
 TYPE II-B (LIGHT-FRAME NONCOMBUSTIBLE)
 INTENDED USE AND OCCUPANCY:
 GROUP U (UTILITY/MISCELLANEOUS)

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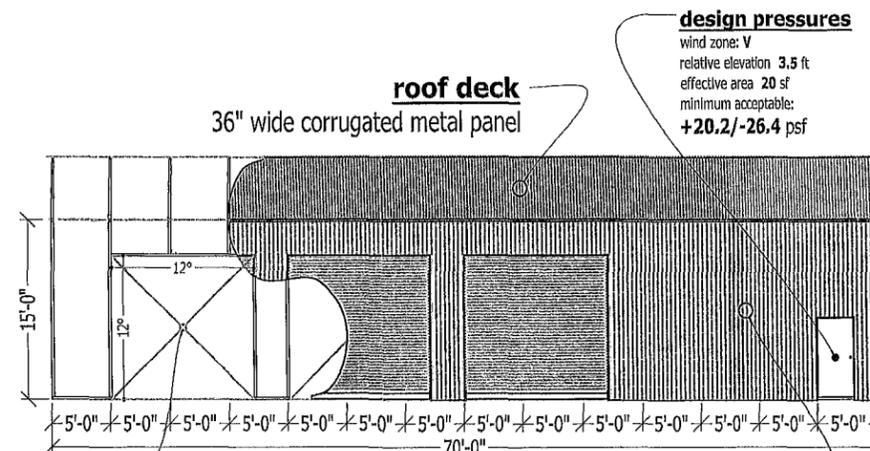
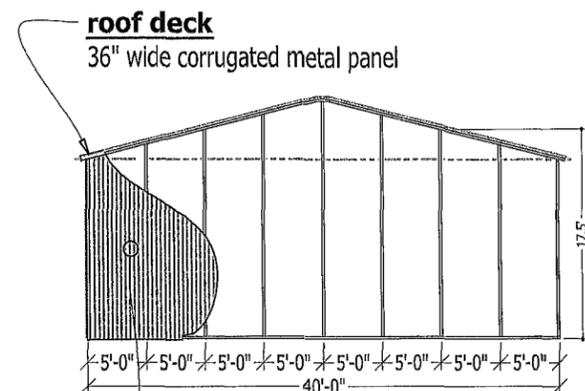
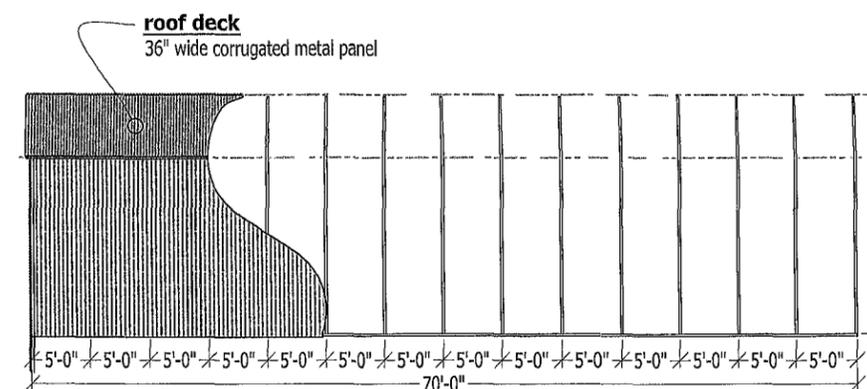
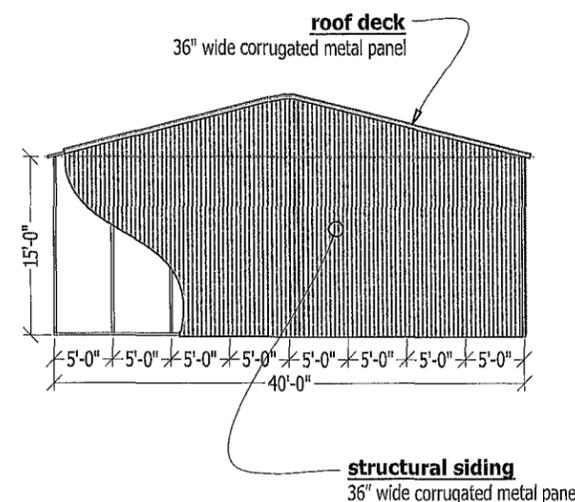
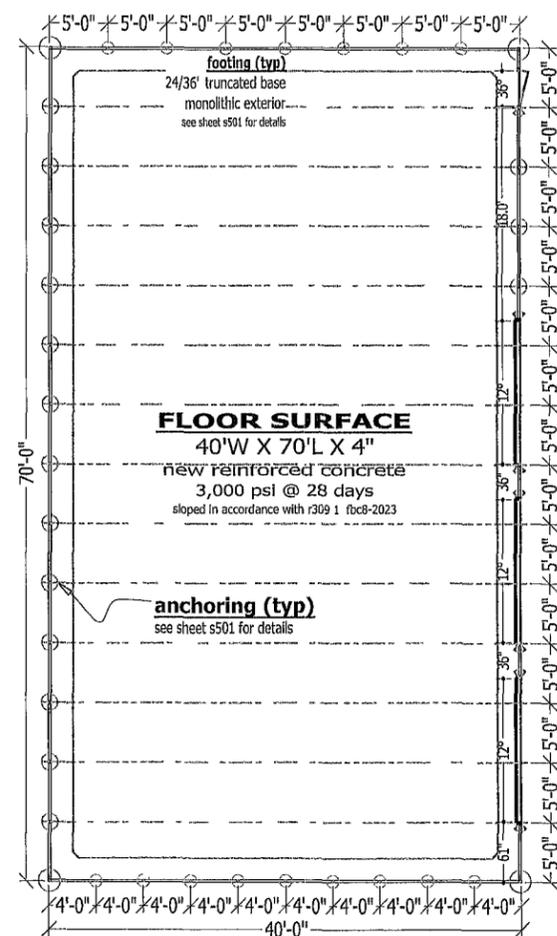
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sheet number
 building plan and composites
S-201
 hollnagel

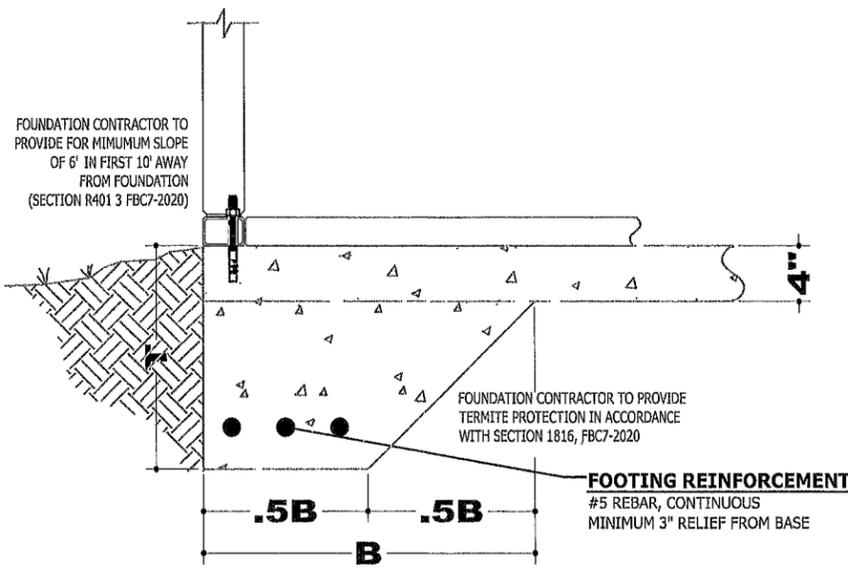


structural siding
 36" wide corrugated metal panel

design pressures
 wind zone: V
 relative elevation: 6 ft
 effective area: 144 sf
 minimum acceptable:
 +17.5/-21.0 psf

design pressures
 wind zone: V
 relative elevation: 3.5 ft
 effective area: 20 sf
 minimum acceptable:
 +20.2/-26.4 psf

structural siding
 36" wide corrugated metal panel

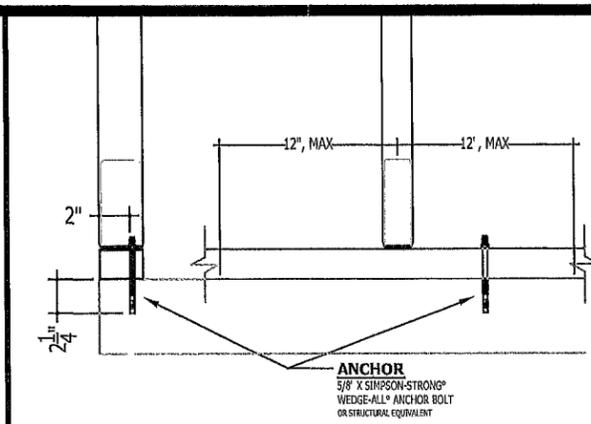


ENCLOSED BUILDING FOOTING (PRESCRIPTIVE)

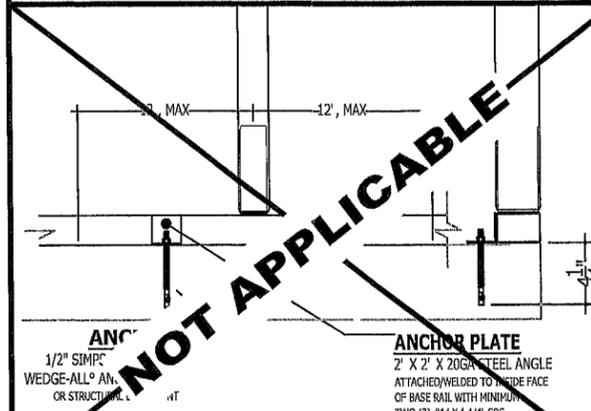
GABLE WIDTH	T	B	#5 REBAR
UP TO 24'-0"	12"	12"	ONE (1)
>24'-0" UP TO 36'-0"	12"	16"	TWO (2)
>36'-0" UP TO 42'-0"	16"	24"	TWO (2)
>42'-0" UP TO 60'-0"	24"	36"	THREE (3)

SLAB-ON-GRADE: THICKENED EDGE

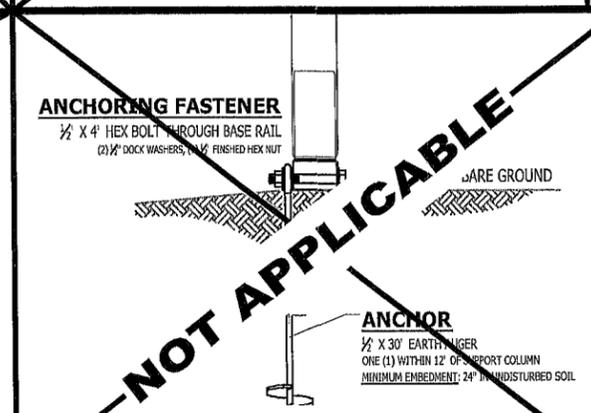
NOT TO SCALE



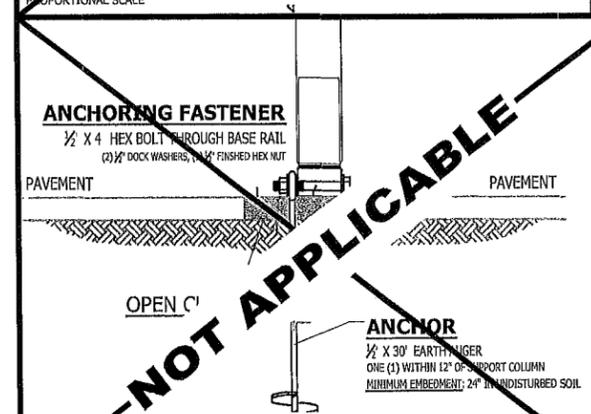
TYPE CA-1: DIRECT ANCHOR
PROPORTIONAL SCALE



TYPE CA-2: OFFSET ANCHOR
PROPORTIONAL SCALE



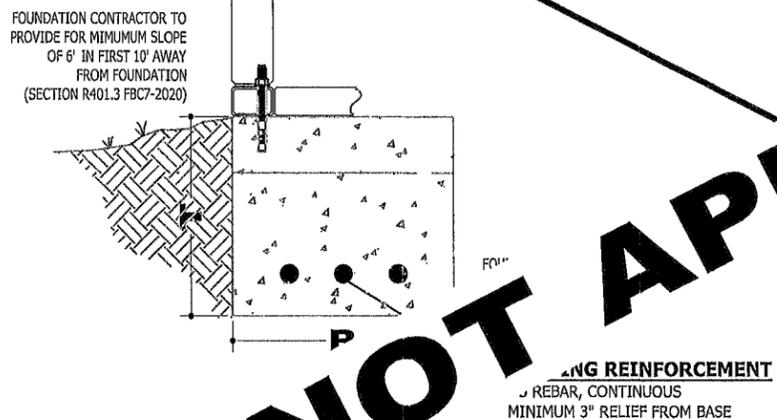
TYPE GA-1: DIRECT GROUND
PROPORTIONAL SCALE



TYPE GA-2: GROUND THROUGH PAVEMENT
PROPORTIONAL SCALE

OPEN CAP FOOTING

GABLE WIDTH	T	B	#5 REBAR
UP TO 24'-0"	12"	8"	ONE (1)
>24'-0" UP TO 36'-0"	12"	12"	TWO (2)
>36'-0" UP TO 42'-0"	16"	16"	TWO (2)
>42'-0" UP TO 60'-0"	24"	24"	THREE (3)



FOOTER ONLY

NOT TO SCALE

Building type: vertical roof/walls
ENCLOSED BUILDING
 Building size: **40'W X 70' X 15'EH**
 Building location: **225 SW BUSINESS POINT DRIVE**
 lake city, florida 32025
 (columbia county)

NOTICE TO OWNER-BUILDER
 FLORIDA STATE LAW REQUIRES CONSTRUCTION TO BE DONE BY LICENSED CONTRACTORS IF YOU HAVE APPLIED FOR A PERMIT UNDER AN EXEMPTION TO THAT LAW THE EXEMPTION ALLOWS YOU, AS THE OWNER OF YOUR PROPERTY, TO ACT AS YOUR OWN CONTRACTOR WITH CERTAIN RESTRICTIONS EVEN THOUGH YOU DO NOT HAVE A LICENSE
 YOU MUST PROVIDE DIRECT, ONSITE SUPERVISION OF THE CONSTRUCTION YOURSELF YOU MAY BUILD OR IMPROVE A ONE-FAMILY OR TWO-FAMILY RESIDENCE OR A FARM OUTBUILDING YOU MAY ALSO BUILD OR IMPROVE A COMMERCIAL BUILDING, PROVIDED YOUR COSTS DO NOT EXCEED \$75,000
 THE BUILDING OR RESIDENCE MUST BE FOR YOUR OWN USE OR OCCUPANCY IT MAY NOT BE BUILT OR SUBSTANTIALLY IMPROVED FOR SALE OR LEASE IF YOU SELL OR LEASE A BUILDING YOU HAVE BUILT OR SUBSTANTIALLY IMPROVED YOURSELF WITHIN 1 YEAR AFTER THE CONSTRUCTION IS COMPLETE, THE LAW WILL PRESUME THAT YOU BUILT OR SUBSTANTIALLY IMPROVED IT FOR SALE OR LEASE, WHICH IS A VIOLATION OF THIS EXEMPTION
 YOU MAY NOT HIRE AN UNLICENSED PERSON TO ACT AS YOUR CONTRACTOR OR TO SUPERVISE PEOPLE WORKING ON YOUR BUILDING IT IS YOUR RESPONSIBILITY TO MAKE SURE THAT PEOPLE EMPLOYED BY YOU HAVE A LICENSE REQUIRED BY STATE LAW AND BY COUNTY, OR MUNICIPAL LICENSING ORDINANCES. YOU MAY NOT DELEGATE THE RESPONSIBILITY FOR SUPERVISING WORK TO A LICENSED CONTRACTOR WHO IS NOT LICENSED TO PERFORM THE WORK BEING DONE. ANY PERSON WORKING ON YOUR BUILDING WHO IS NOT LICENSED MUST WORK UNDER YOUR DIRECT SUPERVISION AND MUST BE EMPLOYED BY YOU, WHICH MEANS THAT YOU MUST DEDUCT F.I.C.A AND WITHHOLDING TAX AND PROVIDE WORKERS COMPENSATION FOR THAT EMPLOYEE, ALL AS PRESCRIBED BY LAW
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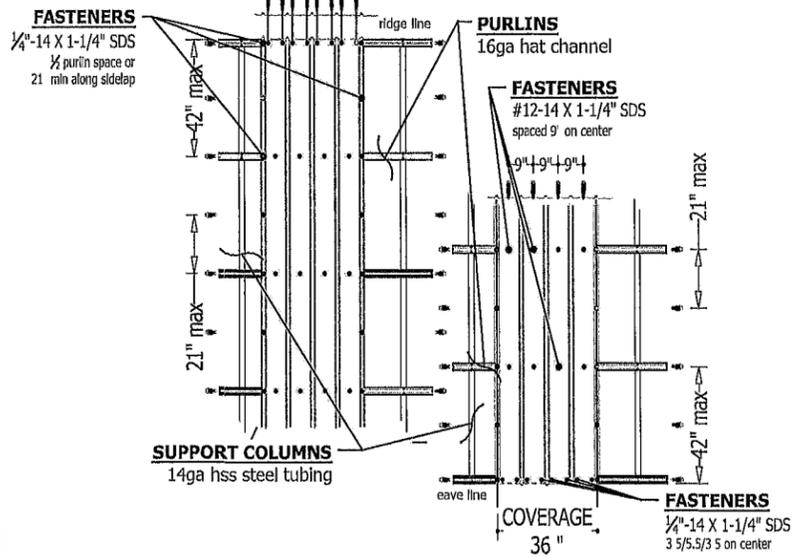
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STATE OF FLORIDA
 No 51556
 MICHAEL E. HOWELLER, PE
 STATE OF FLORIDA PROFESSIONAL ENGINEER
 LICENSE NO 51556
 03/13/24

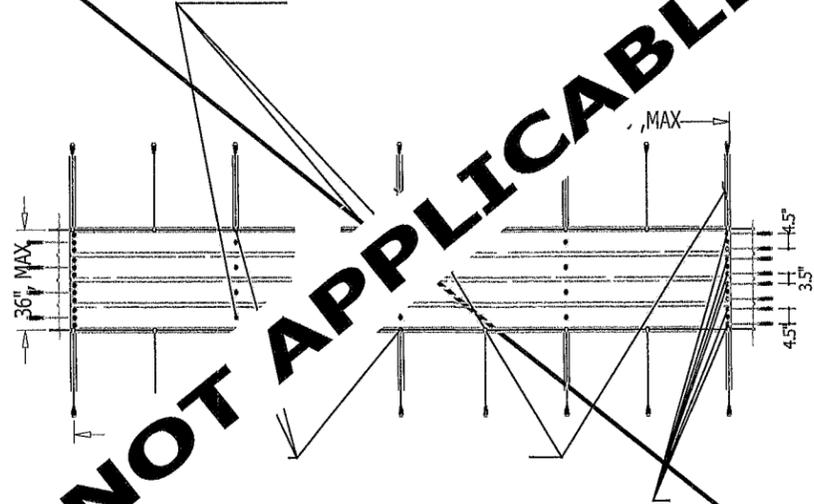
SHEET NUMBER
footing & anchoring details
S-501
 hollnagel

MASTER-RIB®/ULTRA-RIB® FASTENING SCHEDULE
ROOFING PANELS
 ACROSS ROOF PURLINS
 NOT TO SCALE

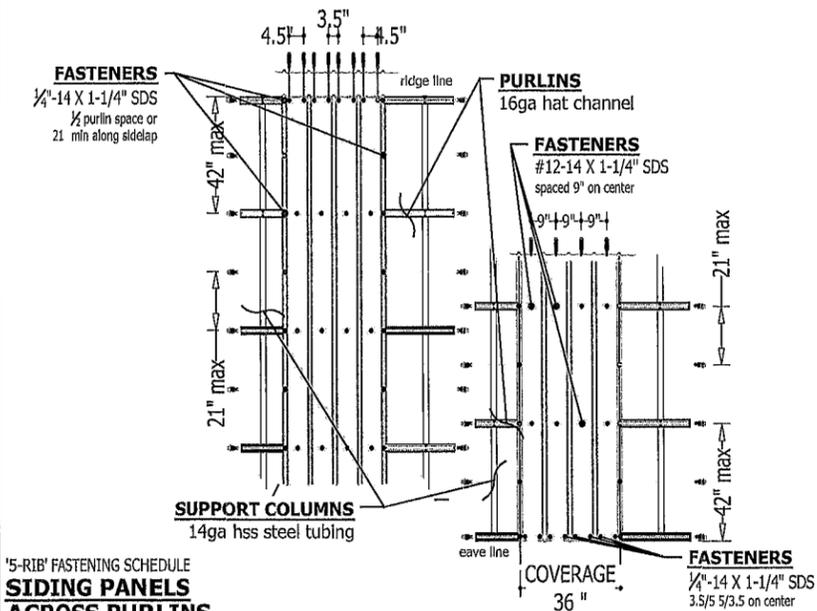


CONVENTIONAL (VERTICAL) ROOF

MASTER-RIB®/ULTRA-RIB® FASTENING SCHEDULE
ROOFING PANELS
 ACROSS TOP TRUSS CHORDS
 NOT TO SCALE

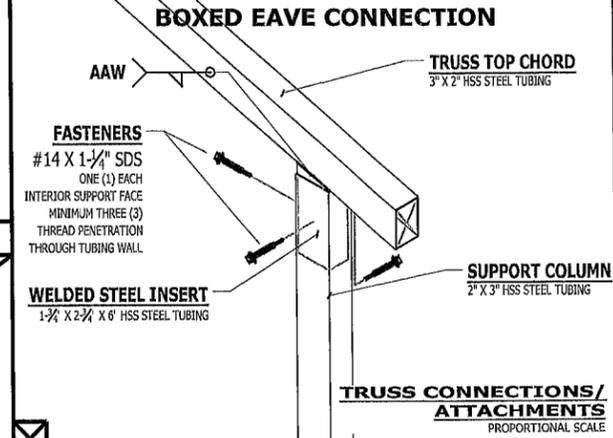
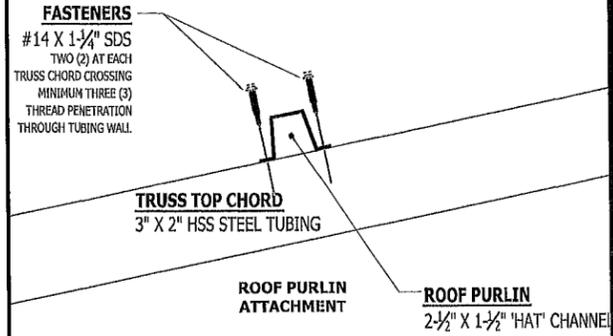


STANDARD (HORIZONTAL) ROOF

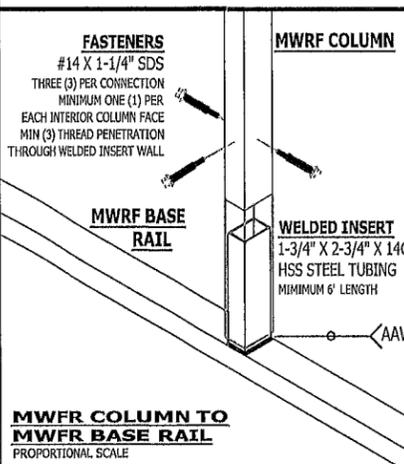


'5'-RIB' FASTENING SCHEDULE
SIDING PANELS
 ACROSS PURLINS
 NOT TO SCALE

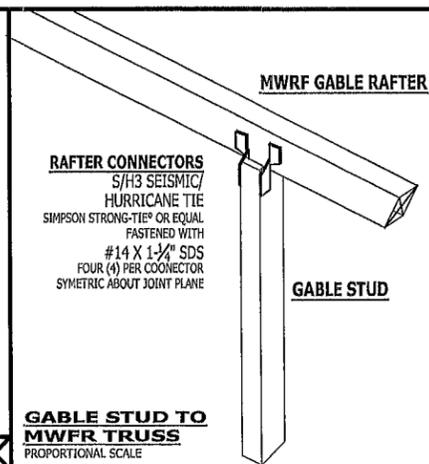
'LAP-SIDE' FASTENING SCHEDULE
SIDING PANELS
 ACROSS SUPPORT COLUMNS
 NOT TO SCALE



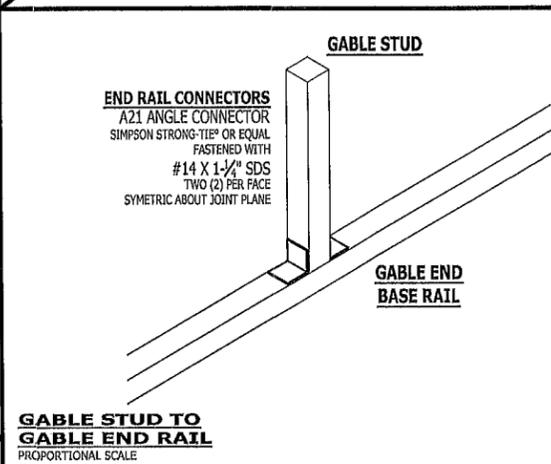
TRUSS CONNECTIONS/ ATTACHMENTS
 PROPORTIONAL SCALE



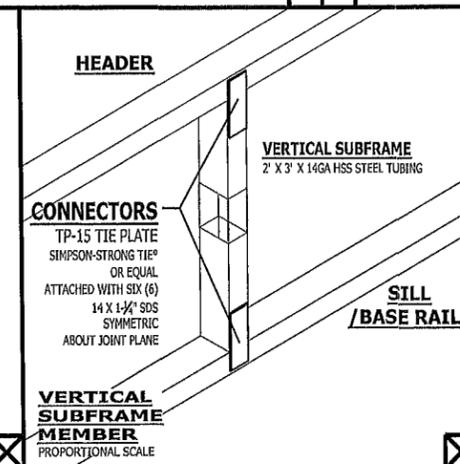
MWRF COLUMN TO MWRF BASE RAIL
 PROPORTIONAL SCALE



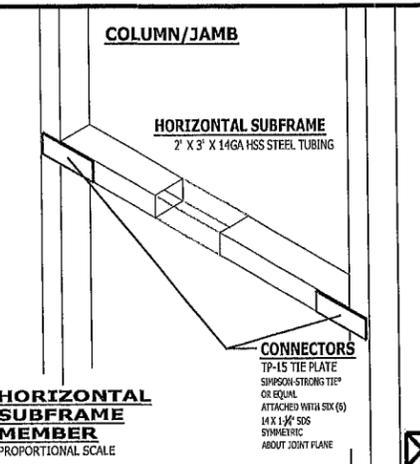
GABLE STUD TO MWRF TRUSS
 PROPORTIONAL SCALE



GABLE STUD TO GABLE END RAIL
 PROPORTIONAL SCALE



VERTICAL SUBFRAME MEMBER
 PROPORTIONAL SCALE



HORIZONTAL SUBFRAME MEMBER
 PROPORTIONAL SCALE

NOT APPLICABLE

building type
vertical roof/walls
ENCLOSED BUILDING

building size
40'W X 70' X 15'EH

building location
225 SW BUSINESS POINT DRIVE
 lake city, florida 32025
 (columbia county)

GENERAL NOTES REGARDING PANEL FASTENING
 THE MAIN WIND FORCE RESISTING SYSTEM ("MWFRS") IS THE ASSEMBLY OF STRUCTURAL ELEMENTS ASSIGNED TO PROVIDE SUPPORT AND STABILITY FOR THE OVERALL STRUCTURE AND GENERALLY RECEIVES WIND LOADING FROM MORE THAN ONE SURFACE.

THESE FASTENING SCHEDULES ARE INTENDED TO ASSIST AND GUIDE THE INSTALLATION CONTRACTOR IN FASTENING THE SELECTED PANELS TO THE MWFRS. HOWEVER, ALL PANELS SHALL BE FASTENED IN ACCORDANCE WITH THE APPROVED INSTALLATION INSTRUCTIONS AS PROVIDED BY THE MANUFACTURER.

THE INSTALLATION CONTRACTOR IS SOLELY RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH, AND FOR ADHERENCE TO, THE MANUFACTURERS' INSTALLATION INSTRUCTIONS.

THESE FASTENING SCHEDULES ARE NOT INTENDED TO CIRCUMVENT OR OVERRIDE THE MANUFACTURERS' APPROVED INSTALLATION INSTRUCTIONS.

SHOULD DEVIATIONS FROM THE MANUFACTURERS' APPROVED INSTALLATION INSTRUCTIONS (OR THIS ASSOCIATED GUIDANCE SHEET) BE DEEMED NECESSARY BY THE INSTALLATION CONTRACTOR, SUCH DEVIATION MUST BE APPROVED, IN WRITING, BY THE ENGINEER-OF-RECORD.

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SHEET NUMBER
connections and fastening schedules
S-601
 hollnagel