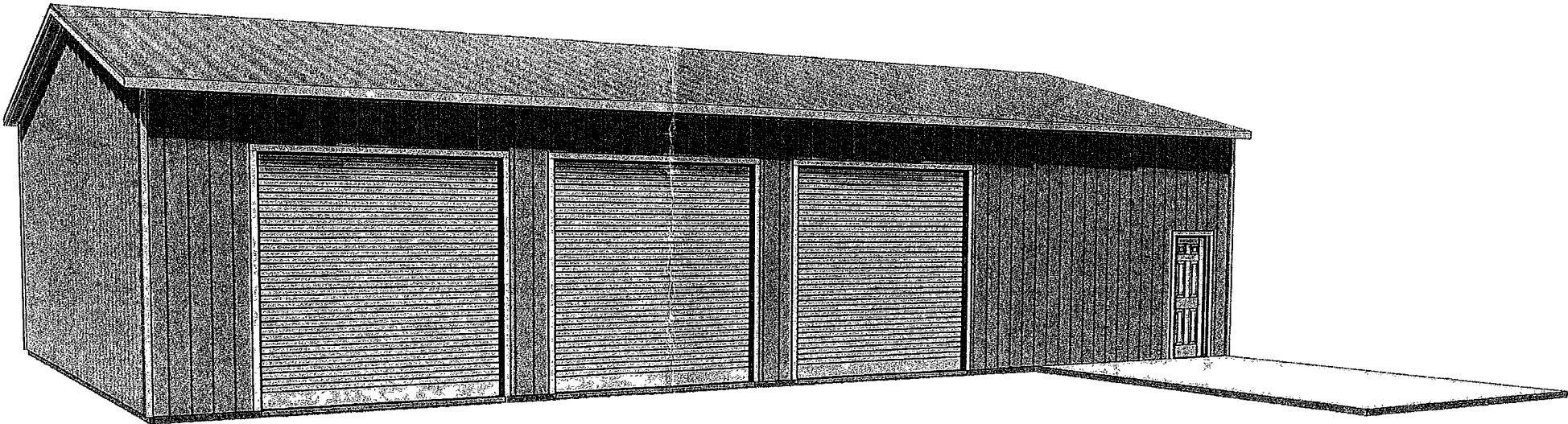


A NEW SHOP BUILDING FOR:

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

ARCHITECTURAL SOFTWARE

W.C.M.

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 32065
(386) 768-8406
wm@wmjora.net

JOB NUMBER

20240406

DATE

April 09, 2024

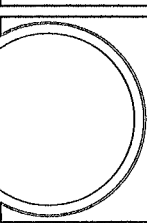
SHEET NUMBER

COVER

REVISIONS
April 10, 2024

SOFTPLAN
ARCHITECTURAL DESIGN SOFTWARE
Wm C-M

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



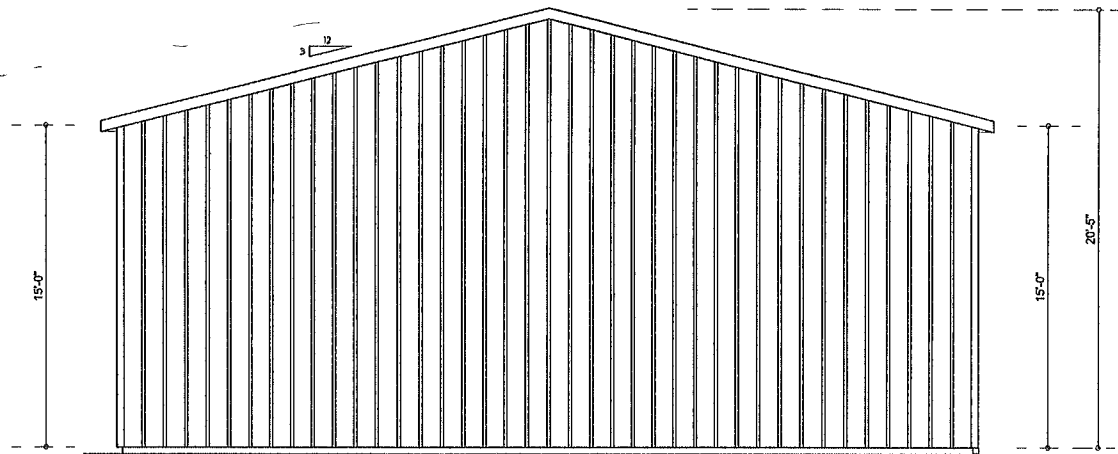
JOINT VENTURED WITH

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ASSOCIATES, INC.
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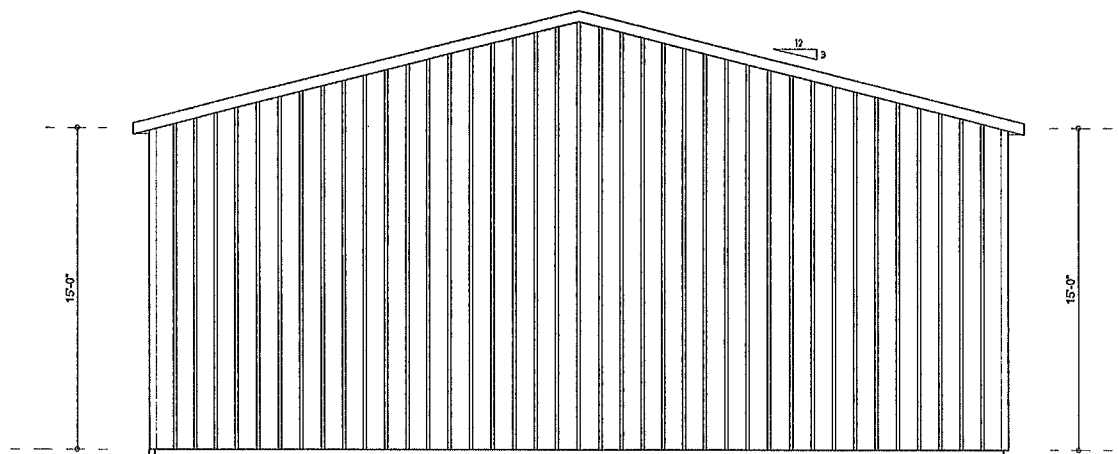


JOB NUMBER
20240406
DATE
April 10, 2024

SHEET NUMBER
A.1



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



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

STRUCTURAL DESIGN CRITERIA

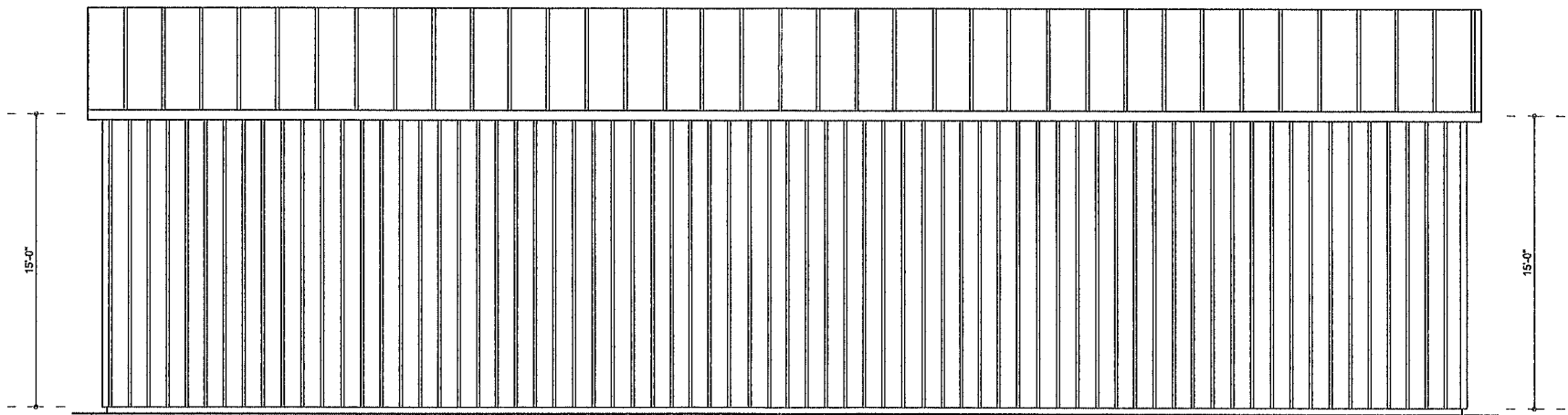
1. THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2023 FLORIDA BUILDING CODE (8TH EDITION) AND OTHER REFERENCED CODES AND SPECIFICATIONS. ALL CODES AND SPECIFICATIONS SHALL BE LATEST EDITION AT TIME OF PERMIT

2. WIND LOAD CRITERIA: RISK CATEGORY 2, EXPOSURE: "B"
BASED ON ASCE/AISC 7-16, 2023 FBC 1609-A WIND VELOCITY $V_{AS} = 130$ MPH
 $V_{ASD} = 101$ MPH

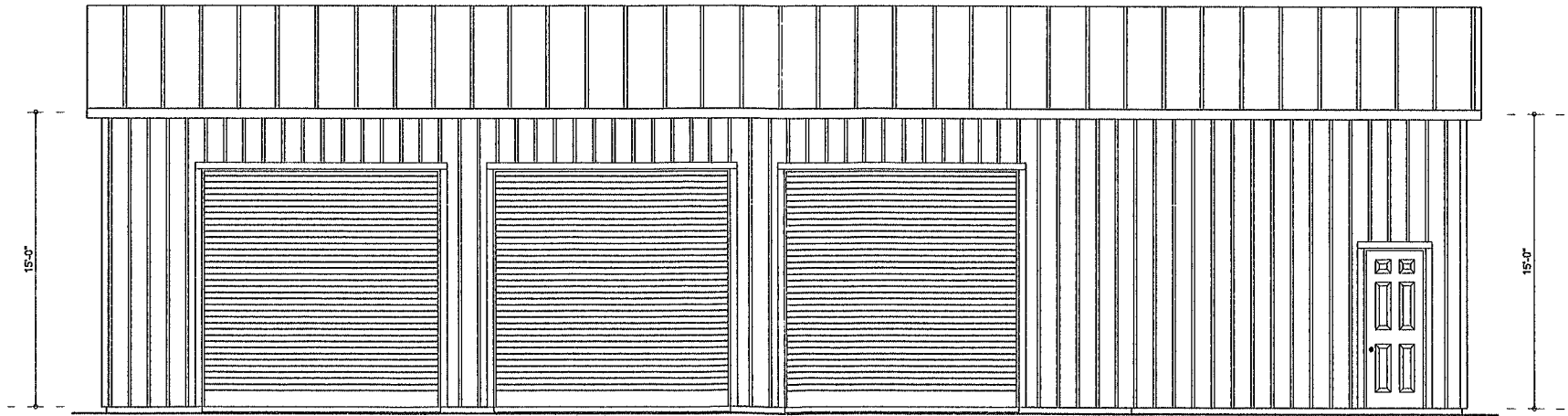
3. ROOF DESIGN LOADS:
SUPERIMPOSED DEAD LOADS: 20 PSF
SUPERIMPOSED LIVE LOADS: 20 PSF

4. FLOOR DESIGN LOADS:
SUPERIMPOSED DEAD LOADS: 25 PSF
SUPERIMPOSED LIVE LOADS: 40 PSF
RESIDENTIAL BALCONIES: 60 PSF

5. 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

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

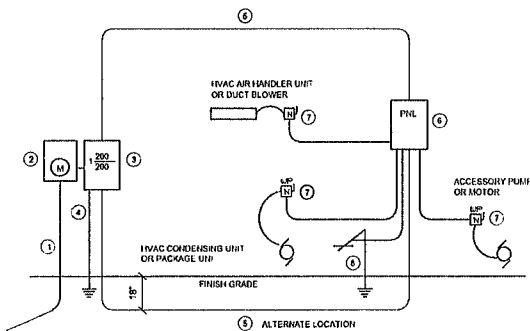
NOTE:
ALL INTERIOR RECEPTACLES SHALL BE AFCI (ARC FAULT CIRCUIT INTERRUPT) PER NEC 210.12 & TAMPER RESISTANT PER NEC 406.11

ALL INTERIOR & EXTERIOR LIGHTING SHALL MEET OR EXCEED THE MIN. 76% HIGH-EFFICIENCY LIGHTING PER FBC-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.

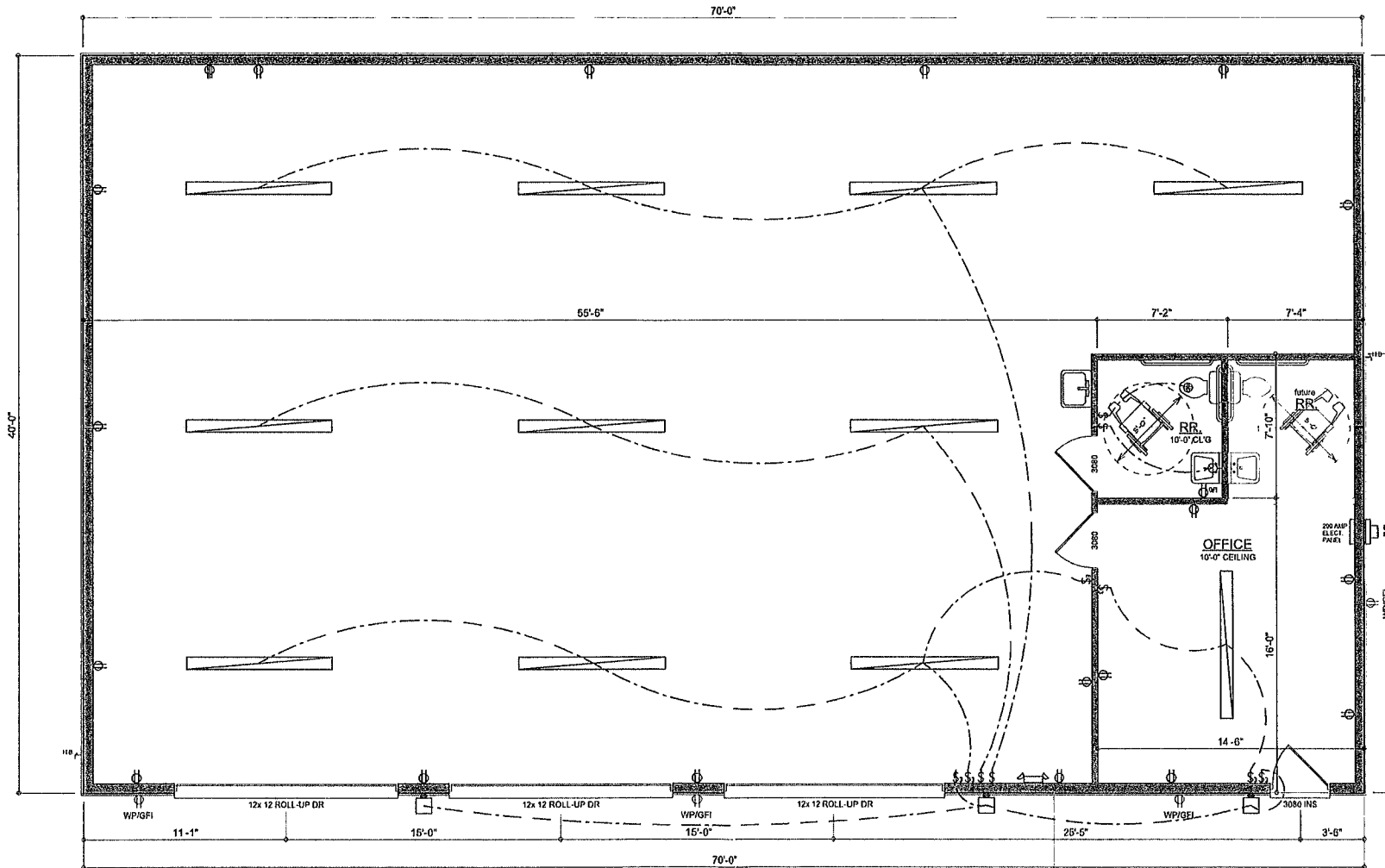
IT IS THE LICENSED ELECTRICAL CONTRACTORS RESPONSIBILITY TO INSURE THAT ALL WORK PERFORMED AND EQUIPMENT INSTALLED MEETS OR EXCEEDS THE 2020 (NFPA-70) NATIONAL ELECTRIC CODE AND ALL OTHER LOCAL CODES AND ORDINANCES.



- Service/Feeder Entrance Conductors: 2" rigid conduit, min. 18" deep w/ continuous Grounding Conductor. Service Entrance Conductors shall not be spliced except in a listed box at the meter. Disconnecting Devices and Panels shall be listed.
- Motor Enclosure, weatherproof U.L. Listed.
- Main Disconnect Switch: listed or Main BRKR, weatherproof U.L. Listed.
- Service entrance Ground: 1" galvanized rod x 8'-0" long and/or concrete encased foundation steel into 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-WIRE-GND, 2" Conduit.
- House Panel (PANEL) U.L. Listed, rated per schedule.
- Equipment Disconnect Switch: non-fused, in weatherproof enclosure, size according to Panel Schedule loads.
- Provide Ground Bond Wire to metal piping, size in accordance with the Service Ground Conductor.

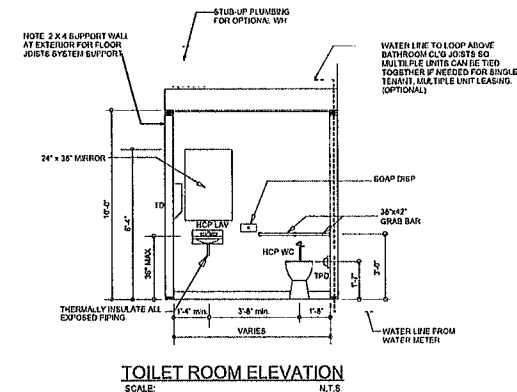
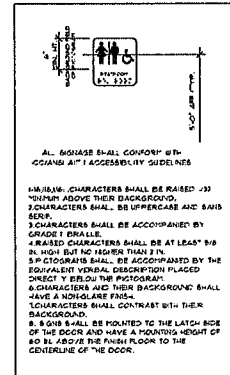
NOTE:
THE MINIMUM AIC RATING FOR PANEL BOARDS, BRKRS AND DISCONNECT SWITCHES SHALL BE 22,000 AIC.

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



AREA SUMMARY

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

REVISIONS
April 10, 2024

SOFTPLAN
ARCHITECTURAL DESIGN SOFTWARE

WMLC-977

A NEW SHOP BUILDING FOR:
Jim Hollnagel

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



JOINT VENTURED WITH

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425 SW COMMERCE DR. STE 130
LAKE CITY, FL 32025
(386) 768-8406
wmlc@wmlc.net

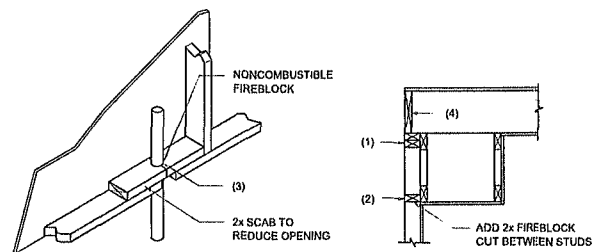
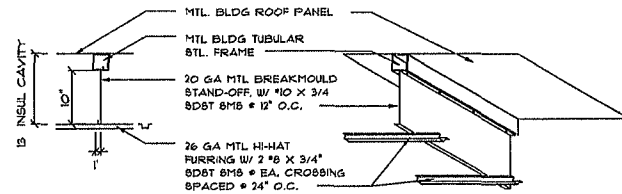


JOB NUMBER
20240406

DATE:
April 10, 2024

SHEET NUMBER
A.2

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



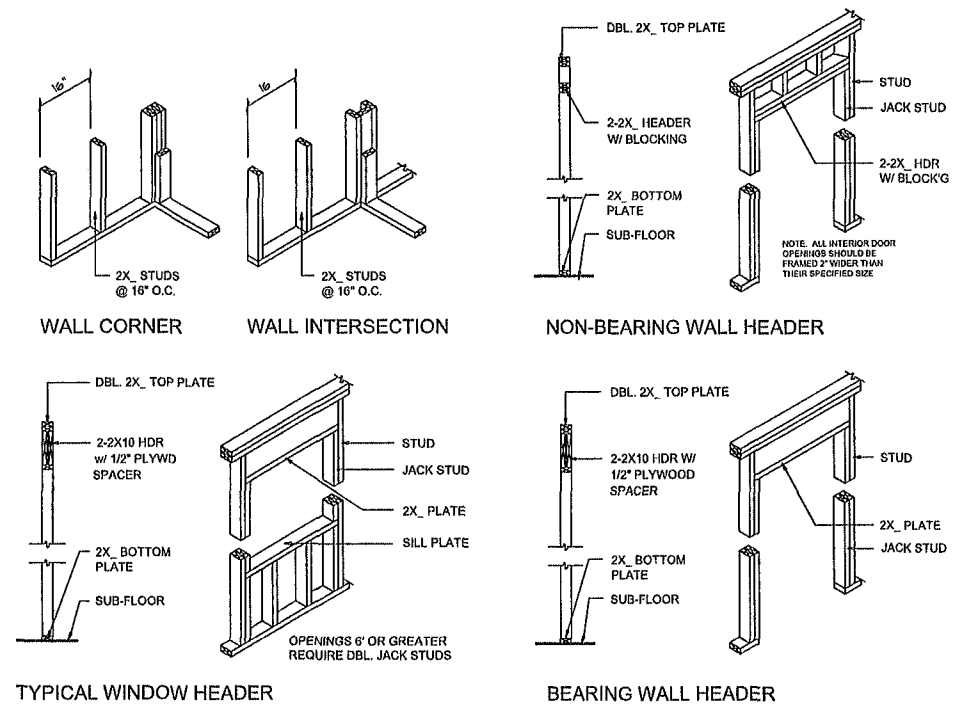
FIREBLOCKING NOTES

- 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

A



Wall Framing/Header DETAILS

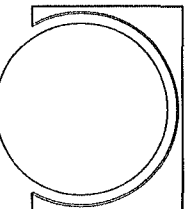
SCALE: NONE

REVISIONS
April 10, 2024

SOFTPLAN
MECHANICAL DESIGN SOFTWARE

Wm C. M.

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



JOINT VENTURED WITH

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LAKE CITY, FL 32025
(386) 758-8406
wm@willmoyers.net



JOB NUMBER
20240406
DATE
April 10, 2024

SHEET NUMBER
A.3

MINIMUM ACCEPTABLE DESIGN PRESSURES - CLADDING

ROOF DECK (psf)				
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

STRUCTURAL SIDING (psf)				
psf	4		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 (gcpi): **±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
(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 KEYED 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.

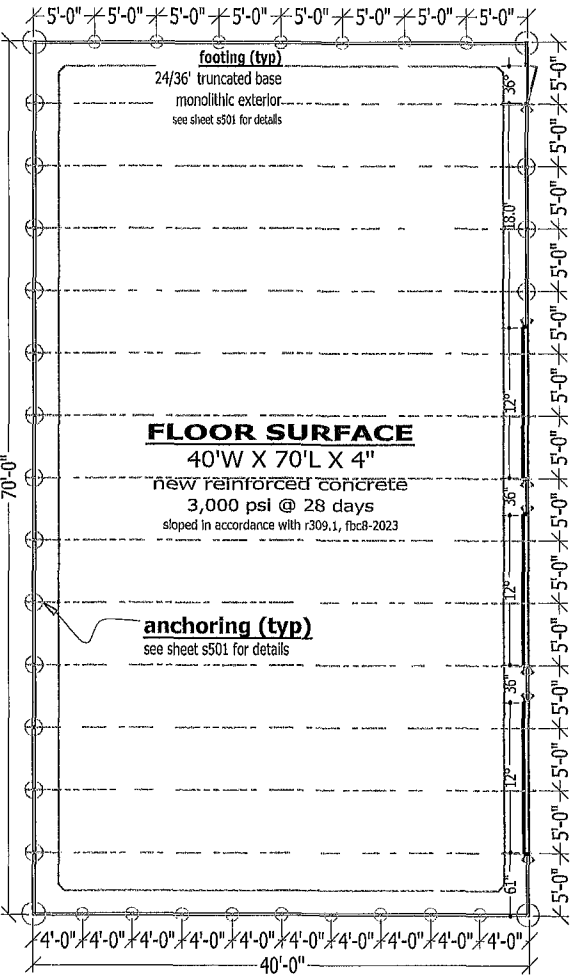
FOR THE INTENDED USE AND OCCUPANCY, THE MATERIALS, COMPONENTS AND THEIR INSTALLATION, AS DESCRIBED, COMPLY WITH THE FLORIDA BUILDING CODE, 8TH EDITION (2023), ITS RESIDENTIAL AND BUILDING VOLUMES; AS WELL AS APPLICABLE STANDARDS REFERENCED THEREIN.

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.

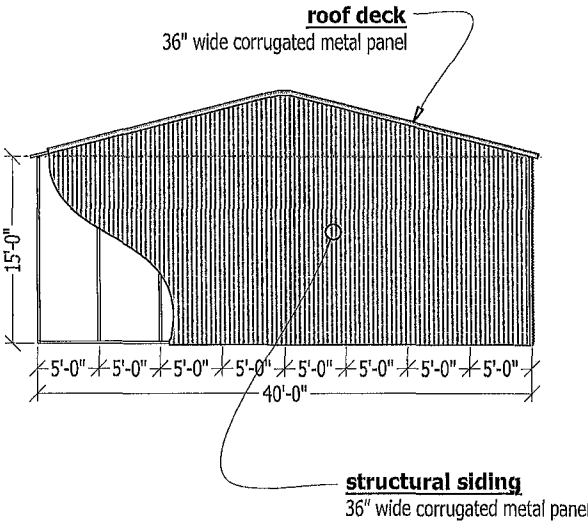
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STATE OF FLORIDA
MICHAEL E HOWELLER, PE
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE NO. 51556
02/13/23

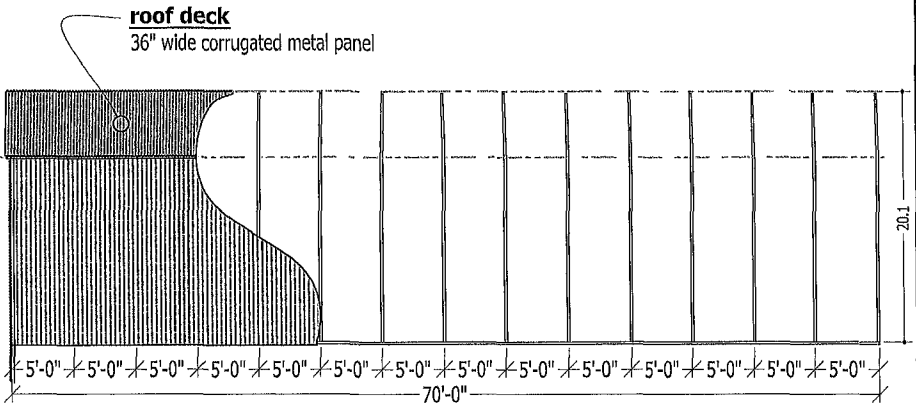
sheet number
building plan and composites
S-201
hollnagel



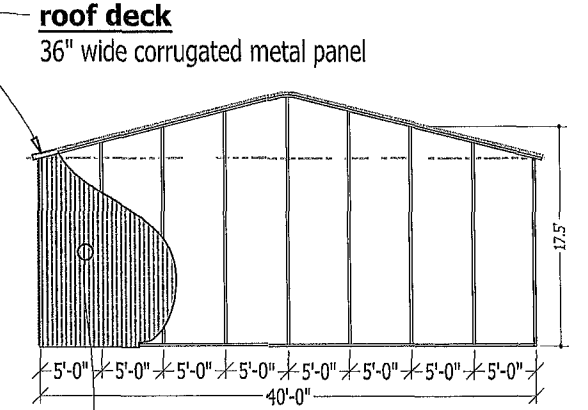
foundation, anchoring
and floor plan
proportional scale



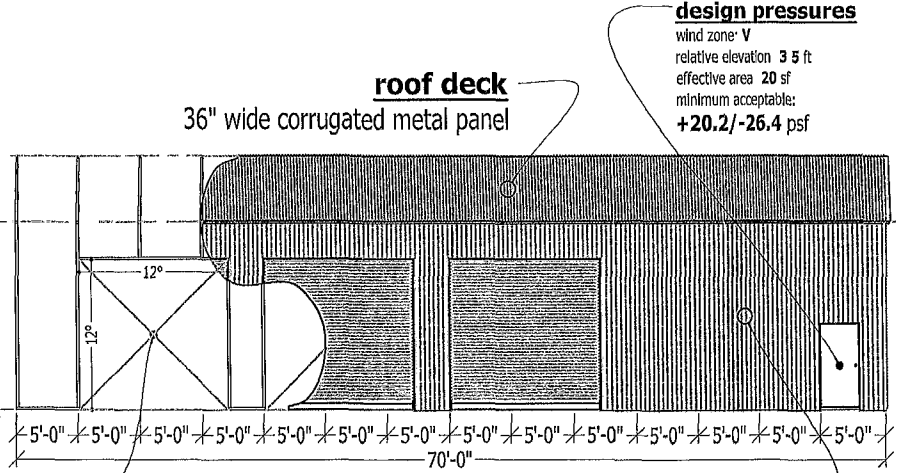
rear gable composite
proportional scale



left side composite
proportional scale



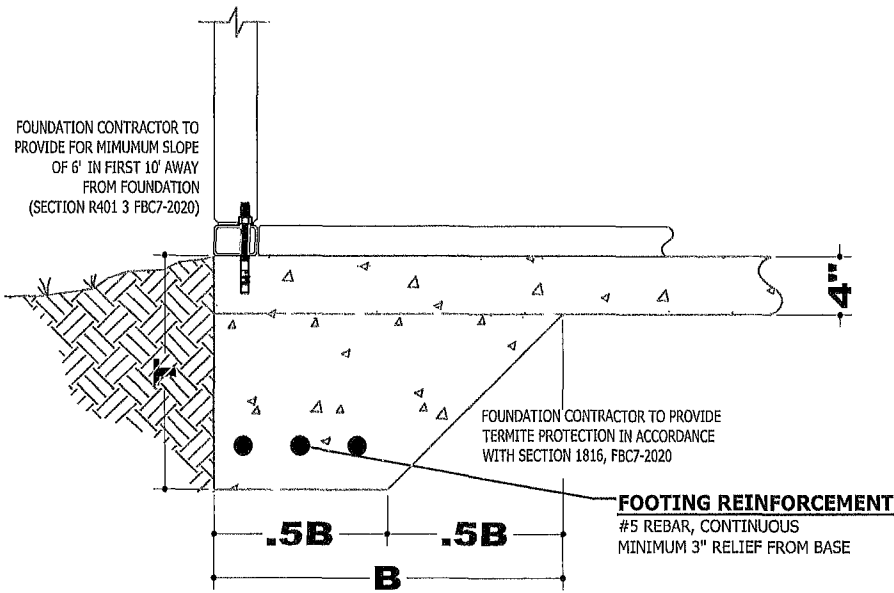
front gable composite
proportional scale



right side composite
proportional scale

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

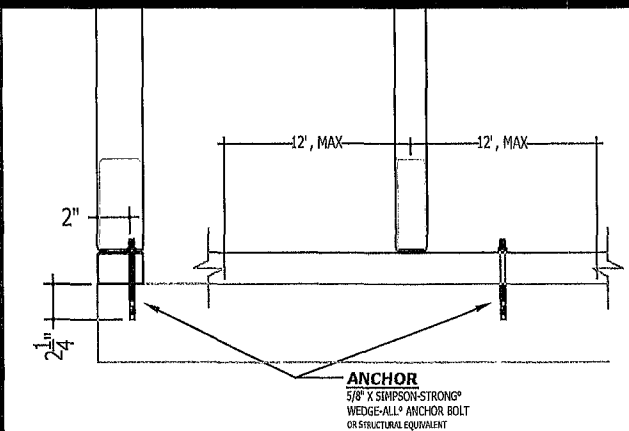
design pressures
wind zone: V
relative elevation: 6 ft
effective area: 144 sf
minimum acceptable:
+17.5/-21.0 psf



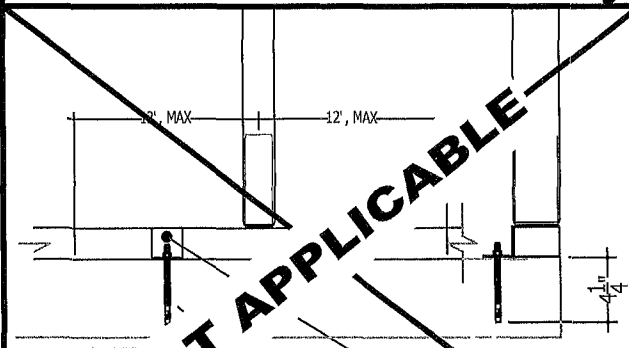
SLAB-ON-GRADE: THICKENED EDGE
NOT TO SCALE

**ENCLOSED BUILDING FOOTING
(PRESCRIPTIVE)**

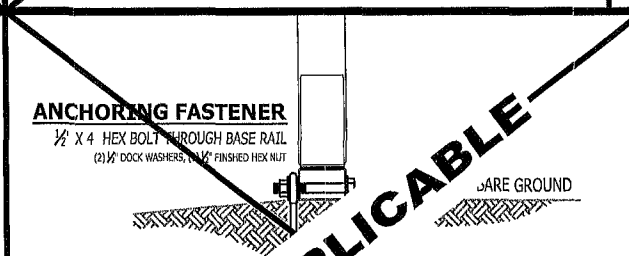
GABLE WIDTH	T	B	#5 REBAR
UP TO 24'-0"	12"	12"	ONE (1)
>24'-0" UP TO 36'-0"	12"	16"	TWO (2)
>36'-0" UP TO 42'-0"	16"	24"	TWO (2)
>42'-0" UP TO 60'-0"	24"	36"	THREE (3)



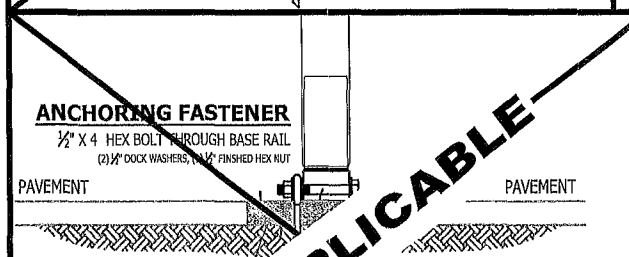
TYPE CA-1: DIRECT ANCHOR
PROPORTIONAL SCALE



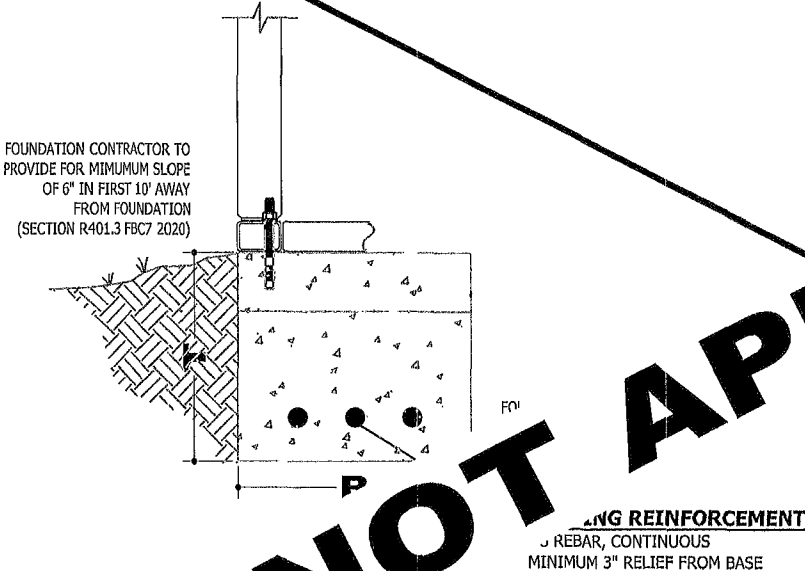
TYPE CA-2: OFFSET ANCHOR
PROPORTIONAL SCALE



TYPE GA-1: DIRECT GROUND
PROPORTIONAL SCALE



TYPE GA-2: GROUND THROUGH PAVEMENT
PROPORTIONAL SCALE



FOOTER ONLY
NOT TO SCALE

OPEN CAVITY 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)

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, ON-SITE 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
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 VULTRAD 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. HOWELL, PE, ON THE DATE AND/OR TIME STAMP SHOWN USING A DIGITAL SIGNATURE.

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STATE OF FLORIDA
MICHAEL E. HOWELL, PE
PROFESSIONAL ENGINEER
LICENSE NO. 51556

SHEET NUMBER
footing & anchoring details
S-501
Hollnagel

MINIMUM ACCEPTABLE DESIGN PRESSURES - CLADDING

ROOF DECK (psf)				
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

STRUCTURAL SIDING (psf)				
psf	4		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 (gcpi): **±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
(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 KEYED 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.

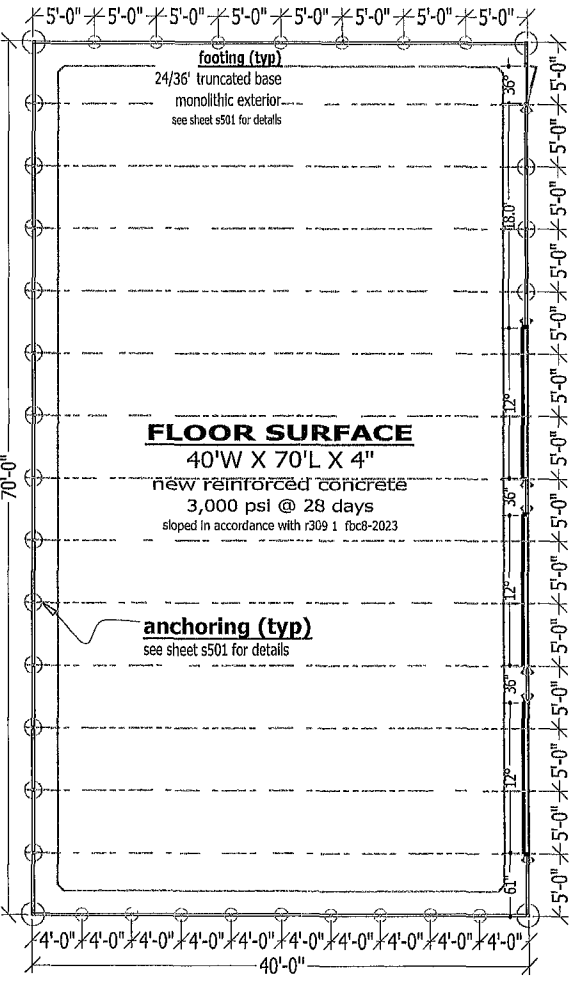
FOR THE INTENDED USE AND OCCUPANCY, THE MATERIALS, COMPONENTS AND THEIR INSTALLATION, AS DESCRIBED, COMPLY WITH THE FLORIDA BUILDING CODE, 8TH EDITION (2023); ITS RESIDENTIAL AND BUILDING VOLUMES; AS WELL AS APPLICABLE STANDARDS REFERENCED THEREIN.

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.

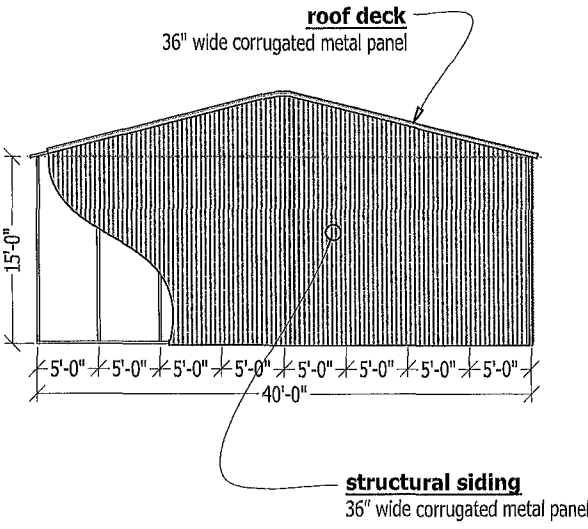
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STATE OF FLORIDA
MICHAEL E. HOWELLER, PE
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE NO. 51556
03/13/24

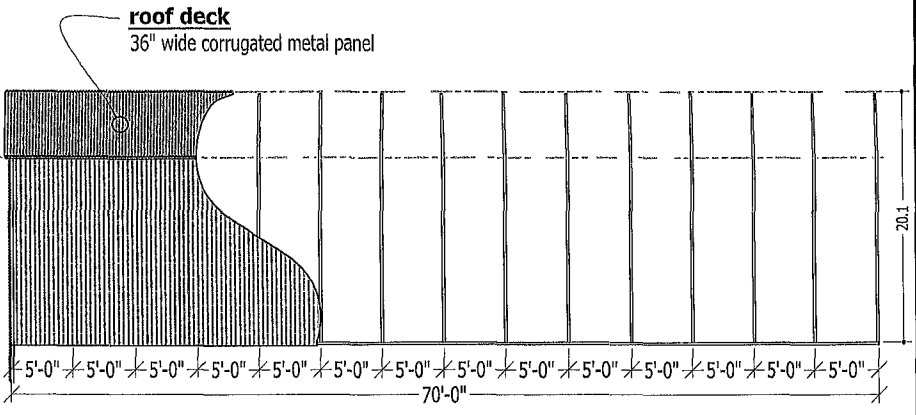
sheet number
building plan and composites
S-201
hollnagel



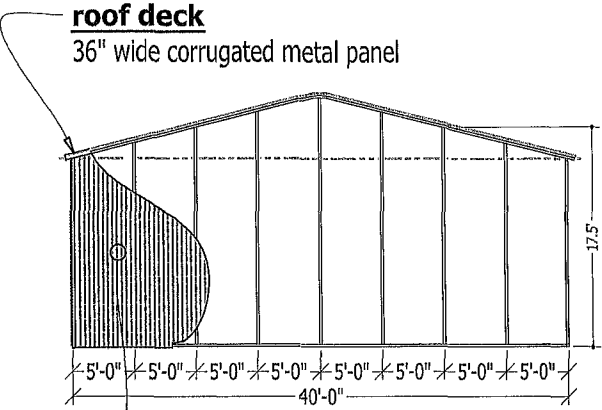
foundation, anchoring
and floor plan
proportional scale



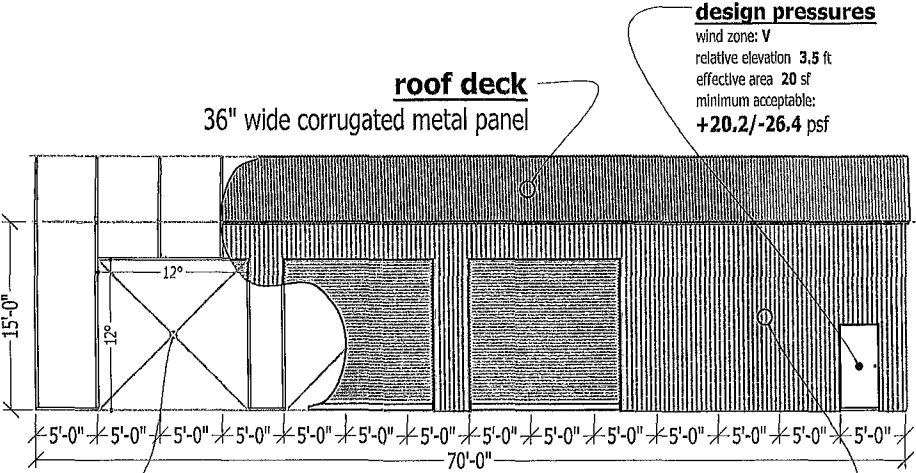
rear gable composite
proportional scale



left side composite
proportional scale



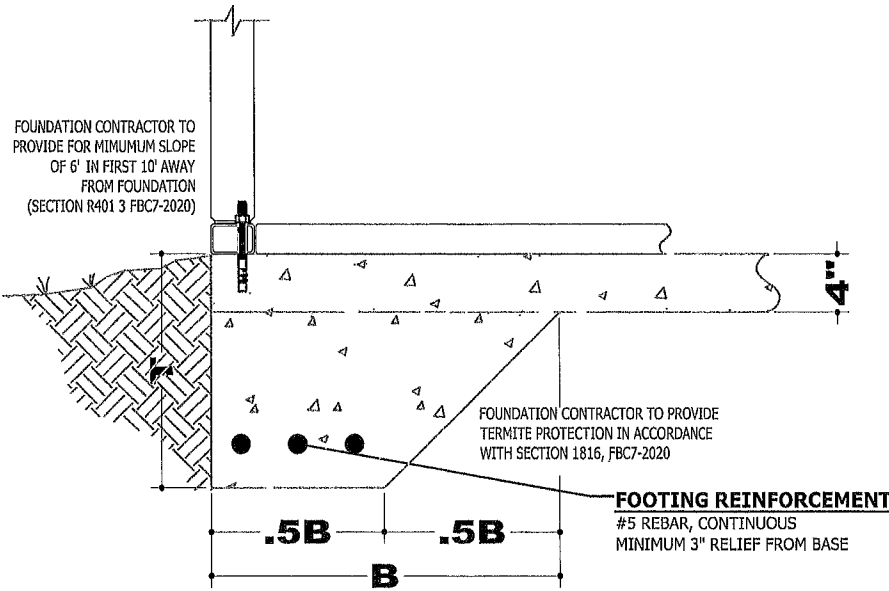
front gable composite
proportional scale



right side composite
proportional scale

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

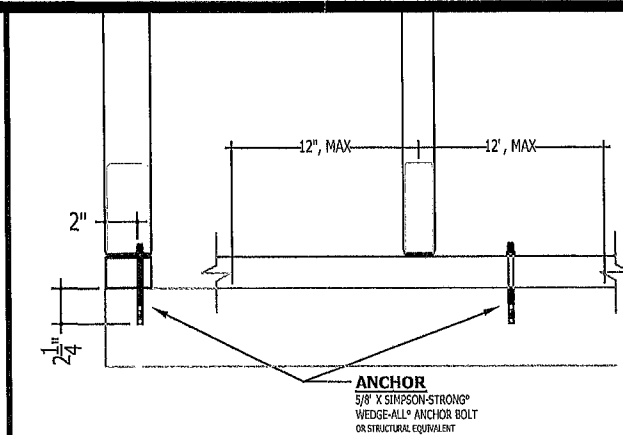
design pressures
wind zone: V
relative elevation 6 ft
effective area 144 sf
minimum acceptable:
+17.5/-21.0 psf



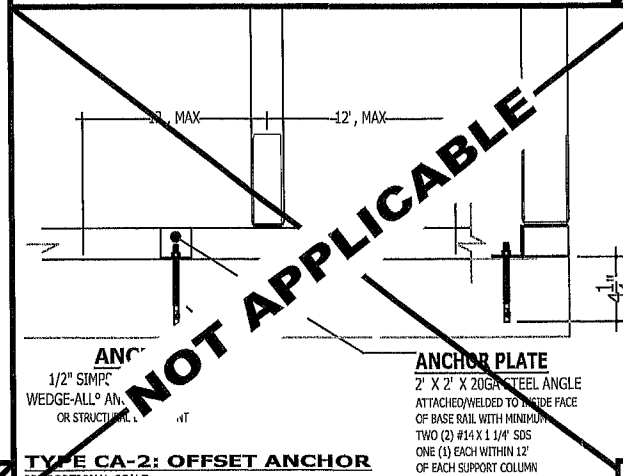
SLAB-ON-GRADE: THICKENED EDGE
NOT TO SCALE

ENCLOSED BUILDING FOOTING
(PRESCRIPTIVE)

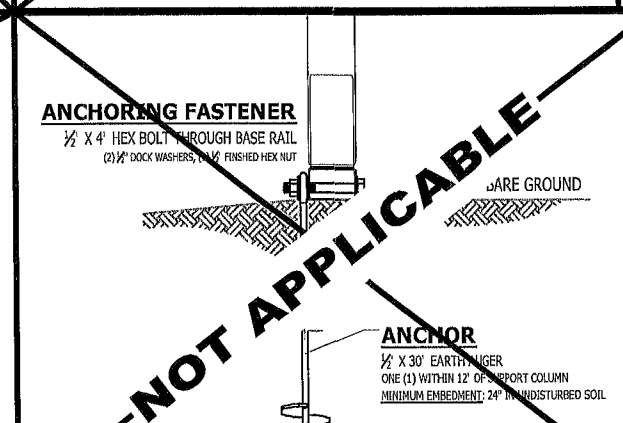
GABLE WIDTH	T	B	#5 REBAR
UP TO 24'-0"	12"	12"	ONE (1)
>24'-0" UP TO 36'-0"	12"	16"	TWO (2)
>36'-0" UP TO 42'-0"	16"	24"	TWO (2)
>42'-0" UP TO 60'-0"	24"	36"	THREE (3)



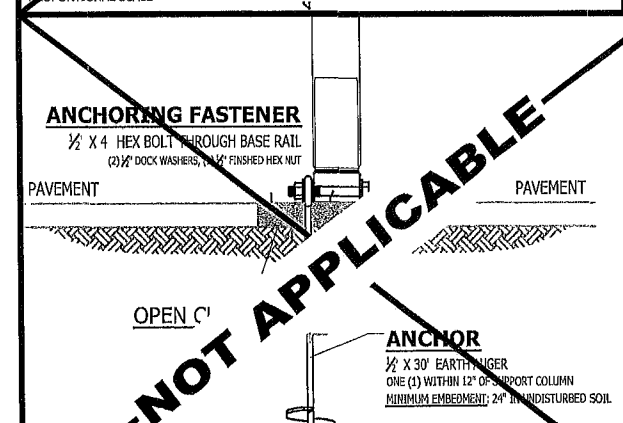
TYPE CA-1: DIRECT ANCHOR
PROPORTIONAL SCALE



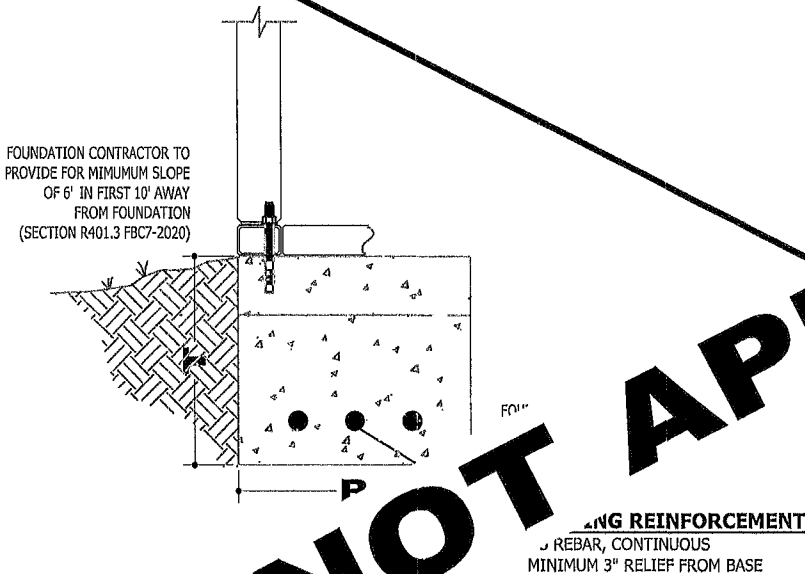
TYPE CA-2: OFFSET ANCHOR
PROPORTIONAL SCALE



TYPE GA-1: DIRECT GROUND
PROPORTIONAL SCALE



TYPE GA-2: GROUND THROUGH PAVEMENT
PROPORTIONAL SCALE



FOOTER ONLY
NOT TO 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)

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

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 VULTR/ASD STRESS DESIGN.

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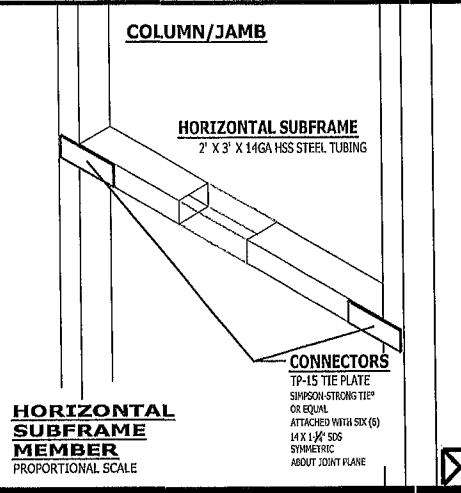
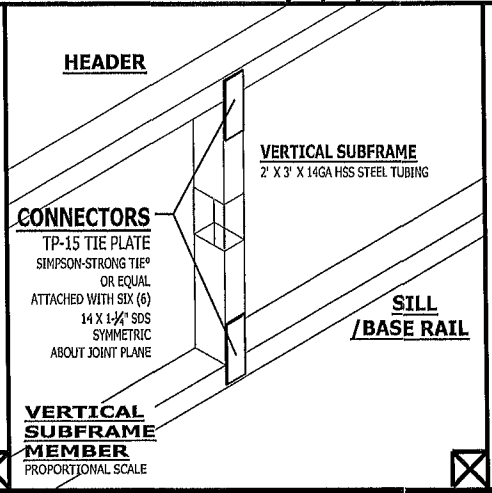
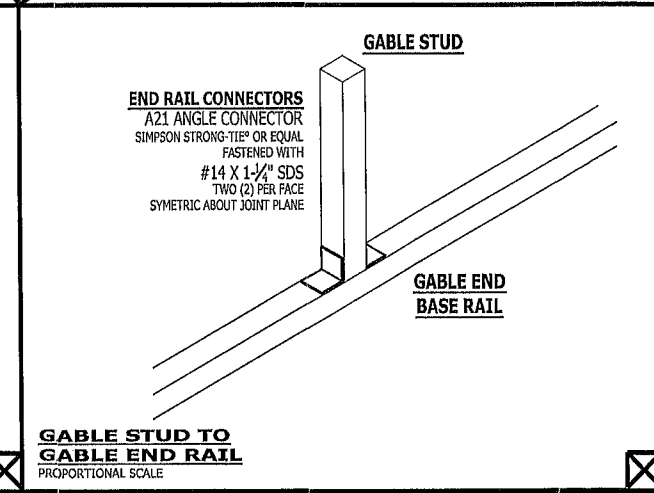
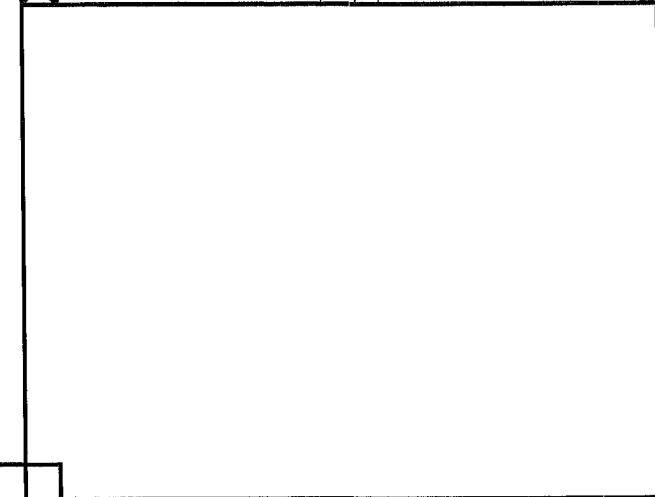
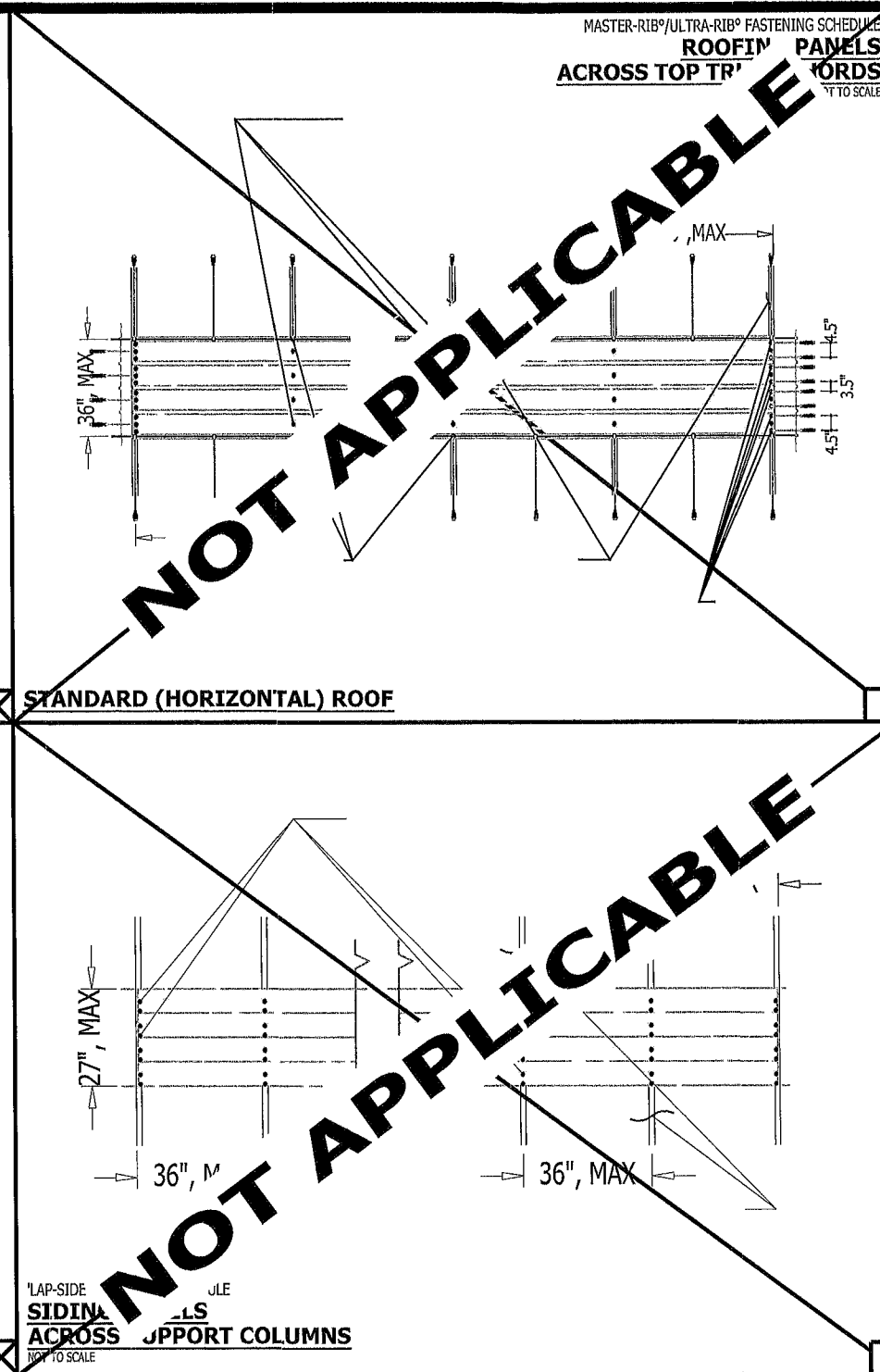
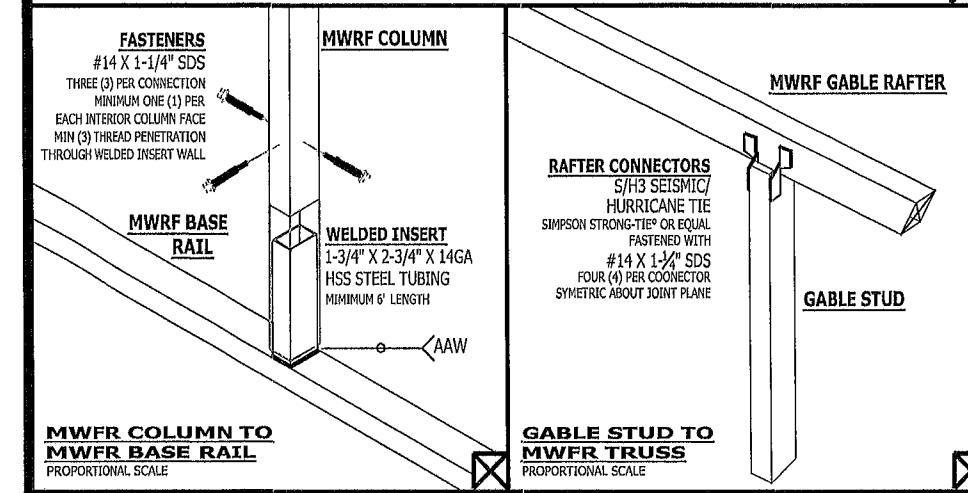
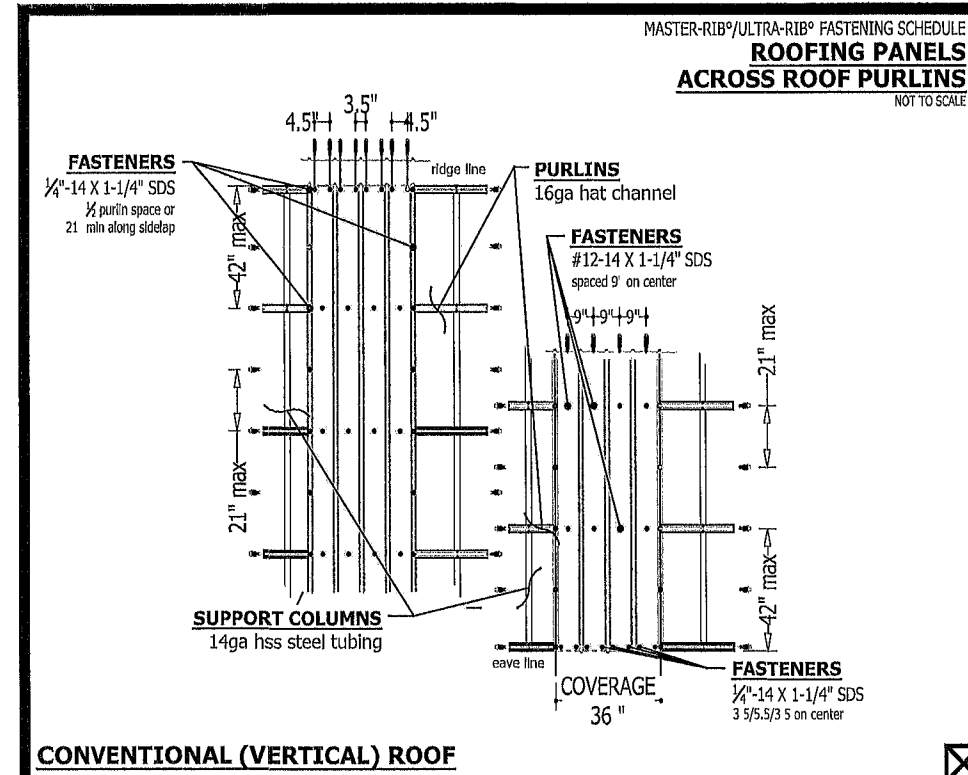
CERTIFICATION OF DIGITAL DOCUMENT

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

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STATE OF FLORIDA
No 51556
MICHAEL E. HOWELL, PE
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE NO 51556
03/13/24

SHEET NUMBER
footing & anchoring details
S-501
hollnagel



GENERAL NOTES REGARDING PANEL FASTENING

THE MAIN WIND FORCE RESISTING SYSTEM ("MWFRS") IS THE ASSEMBLAGE 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.

STATE OF FLORIDA
No 51556
STATE OF FLORIDA PROFESSIONAL ENGINEER
MICHAEL E HOWELL, PE
03/13/24
LICENSE NO. 51556
SHEET NUMBER
connections and fastening schedules
S-601
hollnagel