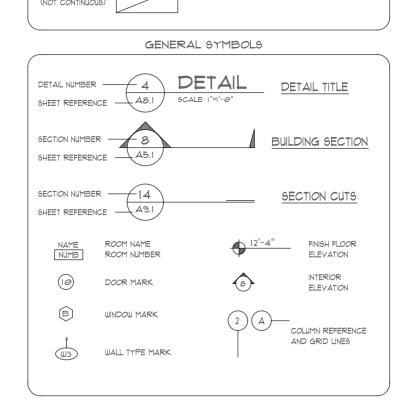
SYMBOL LEGEND

MATERIAL SYMBOLS



			ABBREVIATIONS		
@	AT	FDN	FOUNDATION	ОС	ON CENTER(S)
ACT	ACOUSTICAL TILE	FE	FIRE EXTINGUISHER	OD	OUTSIDE DIAMETER
AD	AREA DRAIN	FEC	FIRE EXTINGUISHER CABINET	OFC!	OWNER FURNISHED
ΑE	ARCHITECT-ENGINEER	FF	FINISHED FLOOR		CONTRACTOR INSTALLED
AFF	ABOVE FINISHED FLOOR	FHC	FIRE HOSE CABINET	OFO!	OWNER FURNISHED
AHU	AIR HANDLING UNIT	FIN	FINISH(ED)	01-01	OWNER INSTALLED
				0100	
APPROX	APPROXIMATE	FIXT	FIXTURE	OFCRI	OWNER FURNISHED
ARCH	ARCHITECT(URAL)	FL	FLOOR		CONTRACTOR ROUGH IN
		FO.	FACE OF	OH	OVERHEAD
BD	BOARD	FT	FOOT/FEET	<i>o</i> PH	OPPOSITE HAND
BIT	BITUMINOUS	FTG	FOOTING	OPP	<i>OPPOSITE</i>
BLDG	BUILDING				
BLK	BLOCK	GA	GAGE/GAUGE	PL	PLATE
BLKG	BLOCKING	GALY	GALVANIZED	PLAM	PLASTIC LAMINATE
BM	BEAM	GL	GLASS/GLAZING	PR	PAIR
BOT	BOTTOM	GWB	GYPSUM WALL BOARD	PT	PRESSURE TREATED
BRG	BEARING	GYP	GYPSUM		
BRK	BRICK			QT	QUARRY TILE
BUR	BUILT UP ROOFING	HA	HANDICAP ACCESSIBLE		
		HDW	HARDWARE	R	RISER/RADIUS
CEM PL	CEMENT PLASTER	HM	HOLLOW METAL	RD	ROOF DRAIN
CFCI	CONTRACTOR FURNISHED	HR	HOUR	REC	RECESSED
	CONTRACTOR INSTALLED	HT	HEIGHT/HIGH	REINF	REINFORCE(D)(ING)
CHEM	CHEMICAL	HVAC	HEATING, VENTILATING AND	REQ	REQUIRED
CJ	CONTROL JOINT/		AIR CONDITIONING	RES	RESILIENT
	CONSTRUCTION JOINT			REV	REVISE(SION)(D)
CL	CENTER LINE	ID	INSIDE DIAMETER	RM	ROOM
CLG	CEILING	IN	INCH	RO	ROUGH OPENING
CMU	CONCRETE MASONRY UNIT	INSUL	INSULATE(DXION)	NO	ROUGH OF ENING
				•	0.01171.1
COL	COLUMN	INT	INTERIOR	9	SOUTH
CONC	CONCRETE			SC	SOLID CORE
CONF	CONFERENCE	JŤ	JOINT	SECT	SECTION
CONT	CONTINUE(OUS)			SIM	SIMILAR
CPT	CARPET(ED)	L	LENGTH	SPEC	SPECIFICATION(S)
CT	CERAMIC TILE	LAV	LAVATORY	SQ	SQUARE
		LF	LINEAL FEET	SS	STAINLESS STEEL
DEMO	DEMOLISH(TION)			STRUCT	STRUCTURAL
DET	DETAIL			SYS	SYSTEM
DF	DRINKING FOUNTAIN	MAX	MAXIMUM		
DIA	DIAMETER	MECH	MECHANIC(AL)	Ť	TREAD
DIM	DIMENSION	MET	METAL	THK	THICK(NESS)
DIV	DIVISION	MFR	MANUFACTURE(R)	TO	TOP OF
DN	DOWN	MIN	MINIMUM	TYP	TYPICAL
DR	DOOR	MISC	MISCELLANEOUS		
		1 1100	TIOCELLAINEOGO	110	IN IDED CLIT
DWG	DRAWING(S)		· long	uc	UNDERCUT
_		N	NORTH	UL	UNDERWRITERS LABORATO
E	EAST	NA	NOT APPLICABLE	UON	UNLESS OTHERWISE NOTED
EA	EACH	NIC	NOT IN CONTRACT		
EJ	EXPANSION JOINT	NO	NUMBER	VCT	VINYL COMPOSITION TILE
EL	ELEVATION	NOM	NOMINAL	VERT	VERTICAL
ELEC	ELECTRIC(AL)	NTS	NOT TO SCALE	VTR	VENT THRU ROOF
ELEV	ELEVATOR	1410		VMC	VINYL WALL COVERING
				Y W C	YINTE WALL COVERING
EQ	EQUAL				
EQUIP	EQUIPMENT			W	WEST/WIDTH
EWC	ELECTRIC WATER COOLER			w/	WITH
EXIST	EXISTING			w/ø	WITHOUT
EXP	EXPOSED			WPT	WORK POINT
				W1 1	
EXT	EXTERIOR				

FIRE EXTINGUISHER NOTES:

DISTANCES PRIOR TO INSTALLATION.

- THE LOCATION, SIZE, AND CLASS OF FIRE EXTINGUISHERS SHALL BE DETERMINED PER NFPA REQUIREMENTS BY THE FIRE EXTINGUISHER SUPPLIER AND AS APPROVED BY THE FIRE MARSHALL / INSPECTOR
- THE INSTALLATION OF THE PORTABLE FIRE EXTINGUISHERS SHALL BE PER A FIRE PROTECTION CONTRACTOR IN CONJUNCTION WITH THE GENERAL CONTRACTOR. 1.3. SUBMIT FIRE EXTINGUISHER LAYOUT, SIZE, AND CLASS TO THE APPROPRIATE FIRE MARSHALL / INSPECTOR FOR REVIEW AND APPROVAL INDICATING THE FIRE EXTINGUISHER HAZARD CLASSIFICATIONS, SIZES, PLACEMENTS AND TRAVEL

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CODES REFERENCED IN THESE DOCUMENTS AND AS ADPOTED AND SUPPLEMENTED BY LOCAL REGULATIONS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL BUILDING PERMITS FROM THE LOCAL BUILDING DEPARTMENTS AS REQUIRED BY CITY/COUNTY REGULATIONS. FEES FOR SUCH PERMITS SHALL BE PAID BY THE CONTRACTOR AND A SET OF APPROVED DRAWINGS AND ORIGINAL PERMITS SHALL BE RETAINED ON SITE FOR THE DURATION OF THE PROJECT.

3. THE DESIGN INFORMATION SHOWN ON THE DRAWINGS PROVIDES OVERALL DIMENSIONAL PARAMETERS AND DESCRIBES ELEMENTS TO BE CONSTRUCTED. THE CONTRACTOR SHALL ADJUST DIMENSIONS AND DETAILS AS REQUIRED TO FIT EXISTING CONDITIONS. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF ALL PROPOSED

4. NO CHANGES TO THE INFORMATION SHOWN ON THE DRAWINGS SHALL BE MADE WITHOUT THE SPECIFIC WRITTEN APPROVAL OF THE ARCHITECT OR ENGINEER, AS APPICABLE.

5. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES ON THESE DOCUMENTS.

6. ALL EXTERIOR COMPONENTS SHALL HAVE FLORIDA APPROVAL NUMBERS.

1. EXTERIOR GLAZING SHALL BE IMPACT RATED. PROVIDE OPTIONAL PRICE FOR NON-IMPACT RATED.

8. EXTERIOR DOORS SHALL BE IMPACT RATED. PROVIDE OPTIONAL PRICE FOR NON-IMPACT RATED.

9. FIRE SPINKLER / FIRE ALARM IF REQUIRED SHALL BE DESIGNED BY OTHERS AS REQUIRED TO MEET FBC 2020, NFPA, \$ FLORIDA FIRE PREVENTION CODE.

OPTIONS FOR PRICING:

CONTRACTORS SHALL PROVIDE OPTIONAL PRICING AS FOLLOWS:

- EXTERIOR METAL PANELS AS INDICATED ON ELEVATIONS 2. STORAGE AREA FLOOR FINISHES AS INDICATED ON FINISH
- 3. STORAGE AREA 8 FT HIGH METAL INTERIOR PANELS.

SHOP DRAWINGS

COPIES OF ALL SHOP DRAWINGS FOR STRUCTURAL OR LIFE SAFETY RELATED COMPONENTS SHALL BE SUBMITTED TO THE ARCHITECT \$ OWNER FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT DETAILED FABRICATION AND

> FOLLOWING ITEMS. ARCHITECT REVIEW OF SHOP DRAWING IS FOR COMPLIANCE OF THE PRODUCT WITH THE DESIGN CONCEPTS DELINEATED IN THESE DOCUMENTS. THE CONTRACTOR AND/OR PRODUCT MANUFACTURER SHALL BE RESPONSIBLE FOR THE ACCURACY AND PERFORMANCE OF THE PRODUCT AND ITS COORDINATION WITH THE OTHER TRADES.

> > BUILDING DESIGN DATA

FLORIDA FIRE PREVENTION CODE

NATIONAL ELECTRICAL CODE 2017

FLORIDA ADMINISTRATIVE CODE

TOTAL OCCUPANT LOAD = 39 OCC.

PROJECT DATA

FLORIDA STATUTES

TOTAL SF = 9.600 SF

OCCUPANT LOADS:

2020 FLORIDA BUILDING CODE, BUILDING, 1TH EDITION

2020 FLORIDA BUILDING CODE, PLUMBING, 1TH EDITION

2020 FLORIDA BUILIDNG CODE, FUEL GAS, 1TH EDITION

NFPA 101 LIFE SAFETY CODE 2020 W/ AMENDMENTS

2020 FLORIDA BUILDING CODE, MECHANICAL, 1TH EDTION,

REFER TO OTHER DRAWINGS FOR OTHER APPLICABLE CODES

METAL BUILDING - EQUIPMENT STORAGE AND OFFICE SPACE

BUSINESS OCCUPANCY = 1,920 SF / 150 SF / OCC = 13 OCC.

STORAGE S2 OCC. = 1,680 SF / 300 SF/OCC = 26 OCC

FIRE SPRINKLER NOTE: BASED ON THE ALLOWABLE AREA FOR NON-SPRINKLERED 52 OCCUPANCY (13,500 SF ALLOWED), A FIRE SPRINKLER SYSTEM IS NOT REQUIRED. HOWEVER, THE AHJ,

SPRINKLER SYSTEM/ALARM BASED ON THE ACTUAL STORAGE MATERIALS AND EQUIPMENT THAT THE OWNER PLACES IN THE

SPRINKLER REQUIREMENTS W/ THE OWNER AND AHJ. IF A FIRE SPRINKLER/ALARM IS REQUIRED, IT SHALL BE DESIGNED BY

OTHERS AND SHALL MEET THE REQUIREMENTS OF FBC 2020, NFPA CODES, AND THE FLORIDA FIRE PREVENTION CODE.

AUTHORITY HAVING JURISDICTION, MAY REQUIRE A FIRE

STORAGE AREA. CONTRACTOR SHALL COORDINATE FIRE

2020 FLORIDA BUILDING CODE, ACCESSIBILITY, 1TH EDITION

2020 FLORIDA BUILDING CODE, ENERGY CONSERVATION, 1TH EDITION

INSTALLATION DRAWINGS AND PRODUCT LITERATURE FOR THE

. STRUCTURAL STEEL 2. METAL STUD FRAMING

3. ROOF TRUSSES, LVL, \$ PRE-ENGINEERED BEAMS

4. REINFORCING STEEL 5. CONCRETE DESIGN MIXES

6. WATERPROOF MEMBRANES

7. RAILINGS \$ HANDRAILS 8. ARCHITECTURAL PRE-CAST OR PRE-FORMED COLUMNS 9. APPLIED FOAM TRIM, WINDOW/DOOR HEADS, AND

ARCHITECTURAL DETAILING

10. BATHROOM ACCESSOIRES \$ MIRRORS 11. ALL FOOR, WALL , AND CEILING FINISHES

12. ALL CABINETRY 13. ELEVATORS

14. STAIRS AND HANDRAILS

15. ALL HEATING \$ VENTILATING EQUIPMENT 16. ELECTRICAL FIXTURES \$ EQUIPMENT

17. ALL PLUBMING FIXTURES 18. DOORS, WINDOWS, AND ALL HARDWARE

19. FIREPLACES

20. APPLIANCES

PERFORMANCE STANDARDS

ALL MATERIALS, PRODUCTS AND THEIR INSTALLAITON SHALL MEET THE PRODUCT APPROVAL OF AND BE INSTALLED IN ACCORDANCE WITH THE STANDARDS ESTABLISHED BY THE FOLLOWING AGENCIES, AS APPICALBE:

ASTM AMERCIAN SOCIETY OF TESTING MATERIALS

AWI - AMERICAN WOODWORK INSTITUTE

ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE

GA - GYPSUM ASSOCIATION LSC - LIFE SAFETY CODE

DIMENSIONS WITH METAL BUILDING SHOP DRAWINGS. PROVIDE FULL SHOP DRAWINGS SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA.

PROVIDE FULL SHOP DRAWINGS WITH ALL LOADING AND VERIFICATION PRIOR TO ANY CONSTRUCTION ACTIVITY.

ACI - AMERICAN CONCRETE INSTITUE AF\$PA - AMERICAN FOREST \$ PAPER ASSSOCIATION AISC - AMERICAN INSTITURE OF STEEL CONSTRUCTION

AWPB - AMERICAN WOOD PERSERVATIVES BUREAU

AAMA - ARCHITECTURAL ALUMINUM MANUFACTURE'RS ASSOCIATION FBC - FLORIDA BUILDING CODE

NER - NATIONAL EVALUATION SERVICE INC

NFPA - NATIONAL FIRE RPOTECTION ASSOCIATION NDW - NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION

OSHA - OCCKUPATIONAL SAFETY AND HEALTH ACT SJI - STEEL JOIST INSTITUE

TCA - TILE COUNCIL OF AMERICA

UL - UNERWRITERS LABORATORIES

ARCHITECT NOT RESPSONIBLE FOR ANY CIVIL WORK, SITE WORK, LANDSCAPE DESIGN, FIRE SUPPRESSION SYSTEMS, OR ANY OTHER WORK NOT SPECIFICALLY ADDRESSED BY THESE

THIS PROJECT IS A PRE-FAB METAL BUILDING. COORDINATE ALL

REACTIONS TO STRUCTURAL ENGINEER FOR FOUNDATION DESIGN

INDEX OF DRAWINGS MAIN BUILDING AIOO COVER AIDI FLOOR PLAN A102 ELEVATIONS A103 ELEVATIONS

A104 BUILDING SECTION A105 ENLARGED BATHROOMS

STRUCTURAL DRAWINGS

SOOI SPECIFICATIONS / NOTES SIOI FOUNDATION PLAN

S501 DETAILS

MECHANICAL / PLUMBING

MOOI SCHEDULES MIGO HYAC PLAN MIØI HVAC DETAILS MI 02 HYAC DETAILS

POOI NOTES AND DETAILS PIOO BELOW FLOOR SANITARY PIOI ABOVE FLOOR PLUMBING PLAN PIO2 PARTIAL PLUMBING PLAN

ELECTRICAL ENGINEERING

PIO3 SANITARY SEWER RISER

EIOO ELECTRICAL NOTES EIØI NOTES

E1002 ELECTRICAL PLANS

ARCHITECT RUSSELL JOHNSON, ARCHITECT PANAMA CITY, FL. 32401

(850) 630.4483 AR 0012593 RAJARCH@MSN.COM

MECHANICAL ENGINEER ELECTRICAL ENGINEER STEPHENS MECHANICAL ENG, LLC WELCON ELECTRICAL CONSULTANTS , PLLC 14116 CUSTOMS BLVD, SUITE #111 925 TOMMY MUNRO DR GULFPORT, MS 39503 BILOXI, MS 39532 (228).822.8000 (228) 207-3322

2593 COM

CHITE

4

OHNS

7

S

RUS

REVIEWED PROJECT #

APEX ENGINEERING GROUP, PLLC 18-A RICKER AVENUE SANTA ROSA BEACH, FL 32459 (850) 231,4540 WWW.APEXENGINEERINGGROUP.NET

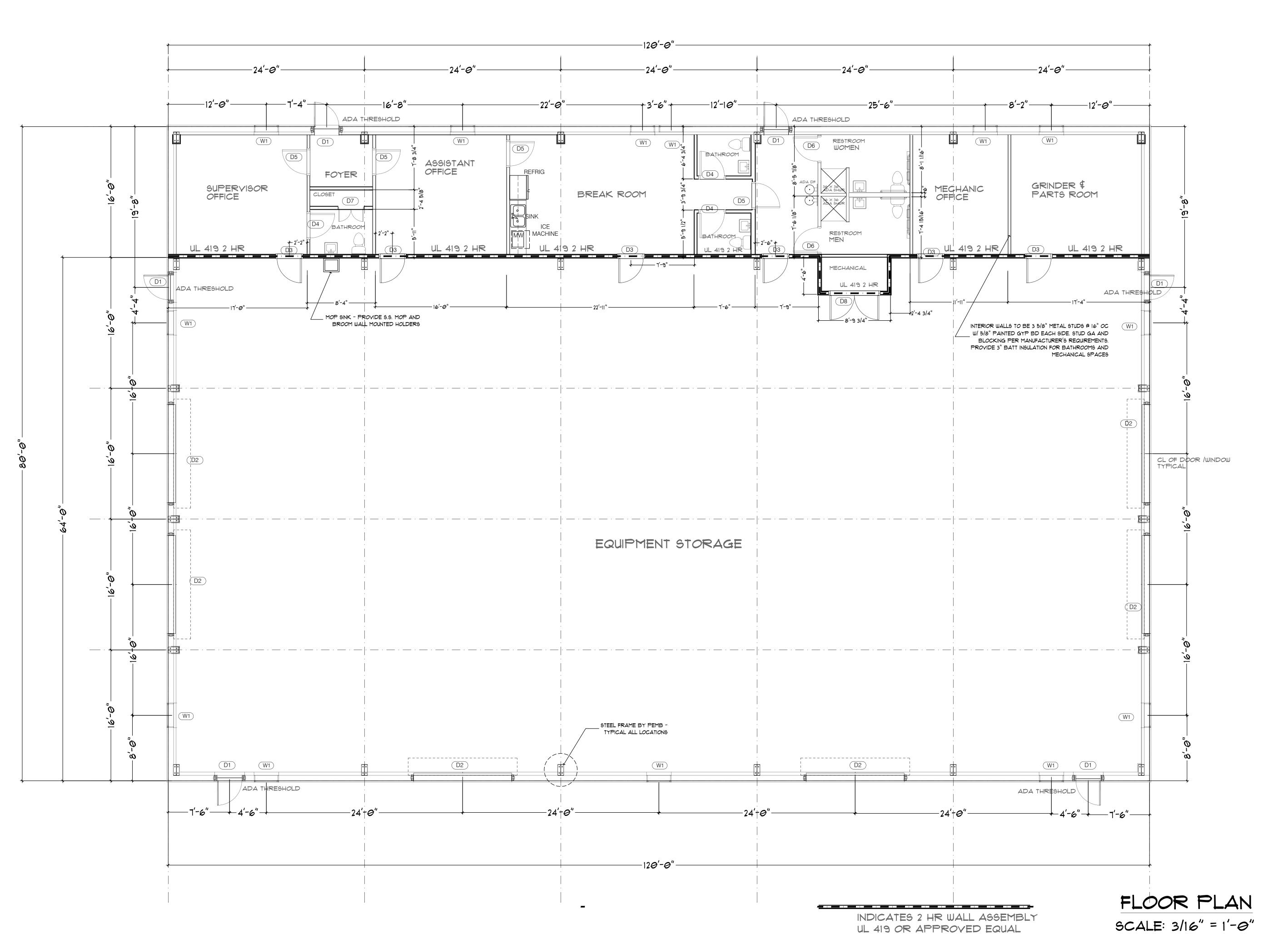
STRUCTURAL ENGINEER

R F F



A - 100

OWNER REVIEW *Q*5.17.23

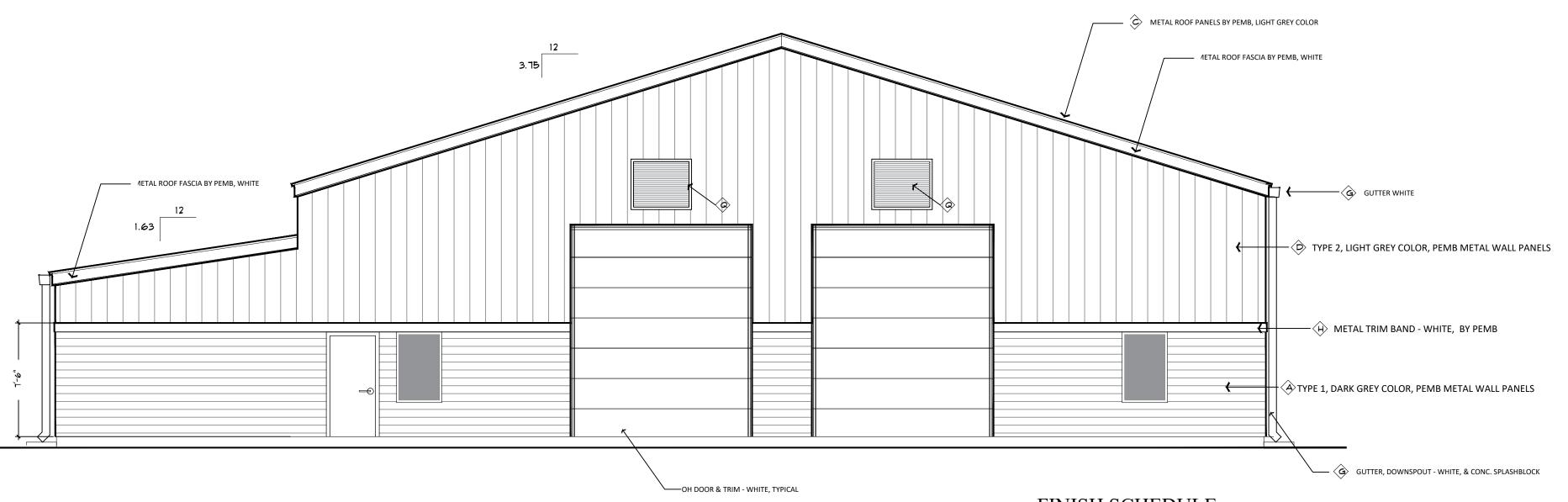


AR 00012593 JARCH@MSN.COM RUSSELL

PROJECT #

GLE SPRINGS GOLF COURSE MAINTENANCE BUILDING

FRONT ELEVATION



RIGHT SIDE ELEVATION

EXTERIOR METAL WALL PANELS

NOTE: PROVIDE OWNER WITH AN OPTIONAL PRICE TO
REPLACE TYPE 1 PEMB WALL PANEL WITH A CONTINUATION
OF TYPE 2 PEMB WALL PANEL AND DELETE TRIM BAND H

FINISH SCHEDULE

INTERIOR WALLS OFFICES / BREAK ROOMS / RESTROOMS ETC. PAINTED GYP BD, PRIME COAT, (2)
COATS OF FINISH, COLOR PER OWNER, EPOXY PAINT IN RESTROOMS, MECH
SPACES, AND SURFACES EXPOSED TO STORAGE AREA

STORAGE AREA - 8 FT HIGH METAL PANELS BY PEMB MANUFACTURER - OPTIONAL PRICE TO DELETE FOR OWNER COORDINATION

EXPOSED METAL FRAMES TO BE PAINTED AFTER REMOVING ALL RUST - USE PRIMER AND PAINT DESIGNED FOR METAL - SUBMIT PAINT TO OWNER FOR APPROVAL

INTERIOR DOOR FRAMES TO RECEIVE TNEMEC "GRAY COURT" #GR22.

CEILINGS - PAINTED GYP BD, 1 COAT PRIMER 2 COATS FINISH (EXCEPT STORAGE AREA)

STORAGE AREA FLOORS - PROVIDE OPTIONAL PRICES FOR:

1. SEALED CONCRETE W/ A NON-SLIP FINISH

PRIME COAT TNEMEC 201 PRIMER - 6-8 MILS
 SECOND COAT TNEMEC 281 COAT - 8-12 MILS
 TOP COAT TNEMEC 248 TOP COAT - 2-3 MILS

APPROVED EQUALS ARE ACCEPTABLE, COORDINATE WITH OWNER

FLOORING - (OFFICES, BREAK ROOM, BATHROOMS, HALLWAY, ETC) VINYL COMPOSITION TILE EQUAL TO AZROCK V783

BASE - EQUAL TO MERCER #207 4" VINYL

NOTE: FINISHES SHALL BE COORDINATED WITH OWNER

PRIOR TO PURCHASING AND CONSTRUCTION. SUBMIT

SAMPLES FOR OWNER APPROVAL.

NOTE: PROVIDE 3" SOUND BATT IN BATHROOM AND MECHANICAL ROOM WALLS.

ROOM FINISH NOTES:

LEGEND

⟨E⟩ PEMB Z-GIRTS

STEEL PEMB FRAME

METAL ROOF PANELS BY PEMB

TYPE 1, COLOR 1, PEMB METAL WALL PANELS

TYPE 2, COLOR 2, PEMB METAL WALL PANELS

WALL INSULATION W/ VAPOR RETARDER - IN COMPLIANCE W/ FBC ENERGY CODE -

(H) METAL TRIM BAND / FLASHING BY PEMB

GUTTER, DOWNSPOUT, & CONC. SPLASHBLOCK

ROOF INSULATION W/ VAPOR RETARDER -

IN COMPLIANCE W/ FBC ENERGY CODE -

J INTERIOR FINISH - COORDINATE W/ OWNER

5/8" PAINTED GYP BOARD OTHER SPACES

8 FT H METAL PANELS BY PEMB IN STORAGE AREA

4" VINYL BASE ALL SPACES - EXCEPT STORAGE AREA

VINYL FLOOR TILE ALL SPACES EXCEPT STORAGE AREA

CEILING - 5/8" TYPE X PAINTED GYP BD, COORDINATE W/ OWNER

SHOP DRAWINGS FROM THE METAL STUD MANUFACTURER

MAIN STORAGE AREA AND ALL MECHANICAL AND BATHROOMS.

PROVIDE 2 HOUR WALL ASSEMBLY WHERE INDICATED ON PLAN

N CONCRETE FLOOR SLAB - REFER TO STRUCTURAL, PROVIDE VAPOR BARRIER

PROVIDE UL APPROVED FIRE CAULKING SYSTEM MATCHING FIRE RATING

PROVIDE UL APPROVED 2HR ASSEMBLY UL I 506 OR APPROVED EQUAL (2) LAYERS 5/8" TYPE ULIX GYP BD, LOOSELY LAID ON TOP OF MIN 6" D

STEEL JOISTS @16" OC AND (3) LAYERS TYPE ULIX GYP BD ATTACHED

METAL STUD GAUGE, BRACING, ETC SHALL BE PER SIGNED AND SEALED

PROVIDE 3.5" BATT INSULATION ALL INTERIOR WALLS THAT ABUTT THE

TYPICAL ALL SPACES EXCEPT MAIN STORAGE AREA

3-5/8" METAL STUDS (6" @ PLUMBING WALLS IF REQUIRED)

ON 6" 18 GA CEILING JOISTS @ 16" OC.

CONCRETE FOUNDATION - REFER TO STRUCTURAL

@ 16" OC W/ 5/8" TYPE X PAINTED GYP BD

BUILDING SIGNAGE PER OWNER'S SPECIFICATIONS
12" H X 8 ' L ALUM BACKING W/ 8" H ALUM LETTERS

Q LOUVERS - COORDINATE W/ MECHANICAL DRAWINGS

TO THE BOTTOM OF THE STEEL CEILING JOISTS.

OF WALL @ STEEL BEAM PENETRATIONS

- 1. ALL FLOOR FINISHES SHALL BE IN COMPIANCE W/ FBC ACCESSIBILITY CHAPTER 3. EXPOSED / POLISHED CONCRETE SHALL HAVE SLIP-RESISTANT FINISHES IN COMPLIANCE W/ FBC ACCESSIBILITY AND THE CONCRETE POLISHING COUNCIL. ALL FLOORING SHALL MEET OR EXCEED THE FLOOR DYNAMIC COEFFICIENT OF FRICTION (DCOF) AS PER ACCESSIBILITY CODES FOR NON-SLIP / SLIP RESISTANT STANDARDS.
- 2. ALL GYP BD SHALL BE 5/8" MIN. THICKNESS. ALL EXPOSED GYP BD SHALL BE PAINTED. MOISTURE RESISTANT GYP BD SHALL BE "PROROC" BY CERTAINEED OR APPROVED EQUAL. FOR ALL MOISTURE RESISTANT CEILINGS, PROVIDE 2 X BLOCKING @ 12" OC E.W.
- 3. INTERIOR WALLS AND CEILINGS IN THE RESTROOMS SHALL BE PAINTED AS FOLLOWS:

 3.1 PRIMER: TNEMEC SERIES 151 ELASTO-GRIP FC APPLIED @ 1.0 MIL DRY FILM THICKNESS
 INTERMEDIATE: TNEMEC SERIES 113 TNEME-TUFCOAT APPLIED @ 4.0-6.0 MIL DRY FILM THICKNESS
 FINISH: TNEMEC SERIES 113 TNEME-TUFCOAT APPLIED @ 4.0-6.0 MIL DRY FILM THICKNESS
- 4. CHANGES IN LEVEL: ALL FLOOR CHANGES IN LEVEL SHALL MEET FBC 2020 ACCESSIBILITY CODE. VERTICAL CHANGES IN LEVEL BETWEEN 1/4" HIGH MAX ARE PERMITTED TO BE VERTICAL. CHANGES IN LEVEL BETWEEN 1/4" HIGH AND 1/2" HIGH MAX SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2 CHANGES IN LEVEL GREATER THAN 1/2" HIGH SHALL BE RAMPED AND SHALL COMPLY W/ SECTIONS 405 \$ 406.

WINDOW SCHEDULE

_____ © METAL ROOF PANELS BY PEMB, LIGHT GREY COLOR

WINDOW SCHEDCEE								
CODE	DESCRIPTION							
W1	3'-4" W X 4'-8" H IMPACT RATED WINDOW							

NOTE: THE BASIS OF DESIGN FOR THE WINDOWS SHALL BE "KAWNEER" NX3800, W/ THERMAL BREAK, ARGON GAS, SOLAR BAN 70, AND AN .09 INNER LAYER. THE FRAME SHALL ALUMINUM - FRAME COLOR AS SELECTED BY OWNER FROM MANUFACTURER'S STANDARD COLORS. APPROVED EQUALS ARE ACCEPTED IF APPROVED BY OWNER DURING BIDDING.

NOTE: PROVIDE OPTION PRICE FOR NON IMPACT RATING FOR EXTERIOR DOORS & WINDOWS.

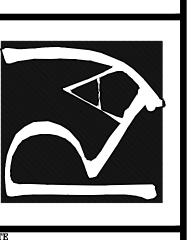
DOOR SCHEDULE

SYMBOL	TYPE	SIZE	DESCRIPTION	REMARKS
D1	EXTERIOR DOOR	3-0 W, 6-8 H	PAINTED GALV STEEL, HM FRAME MINERAL FIBER INSULATION	IMPACT RATED W/ CLOSERS & ADA COMPLIANT LOCKSETS/HANDLES KEYED ON THE EXTERIOR SIDE W/ PRIVACY TURN BUTTON ON INTERIOR SIDE
D2	OH DOOR - ELECTRIC	12-0 W, 14-0 H	PAINTED GALV STEEL, HM FRAME	IMPACT RATED
D3	PERSONEL DOOR, INTERIOR	3-0 W, 6-8 H	PAINTED METAL, HM FRAME MINERAL FIBER INSULATION	1.5 HOUR FIRE RATED UL ASSEMBLY W/ CLOSERS & ADA COMPLIANT LOCKSETS/HANDLES, SMOKE GASKET, DOOR SWEE KEYED ON THE EXTERIOR SIDE W/ PRIVACY TURN BUTTON ON INTERIOR SIDE
D4	BATHROOM DOOR	3-0 W, 6-8 H	PAINTED METAL, HM FRAME	W/ CLOSERS & ADA COMPLIANT LOCKSETS/HANDLES PRIVACY PUSH BUTTONS, INSIDE PUSH BUTTON LOCKS OUTSIDE LEVER PROVIDE COAT HOOK
D5	OFFICE DOOR, INTERIOR	3-0 W, 6-8 H	PAINTED METAL, HM FRAME	W/ CLOSERS & ADA COMPLIANT LOCKSETS/HANDLES, SMOKE GASKET, DOOR SWEE KEYED ON THE EXTERIOR SIDE W/ PRIVACY TURN BUTTON ON INTERIOR SIDE
D6	RESTROOM DOOR	3-0 W, 6-8 H	PAINTED METAL, HM FRAME	W/ CLOSERS & ADA COMPLIANT LOCKSETS/HANDLES PROVIDE COAT HOOK PRIVACY PUSH BUTTON ON INSIDE, INSIDE BUTTON LOCKS OUTSIDE LEVER. TURNIN INSIDE LEVER RELEASES INDIDE BUTTON AND UNLOCKS LOCKSET.
D7	CLOSET DOOR	(2)1-6 W, 6-8 H	PAINTED WOOD, WD FRAME	W/ CLOSERS & ADA COMPLIANT LOCKSETS/HANDLES
D8	MECH CLOSET	(2) 3-0 W, 6-8 H	PAINTED METAL, HM FRAME MINERAL FIBER INSULATION	1.5 HOUR FIRE RATED UL ASSEMBLY W/ CLOSERS & ADA COMPLIANT LOCKSETS/HANDLES, SMOKE GASKET, DOOR SWEE KEYED ON THE EXTERIOR SIDE W/ PRIVACY TURN BUTTON ON INTERIOR SIDE

NOTE: PROVIDE OPTION PRICE FOR NON - IMPACT RATING FOR EXTERIOR DOORS & WINDOWS.

ELEVATIONS SCALE: 3/16" = 1'-0" AR 00012593

IL JOHNSON



DATE
DRAWN REVIEWED
REVISIONS
NO. DATE
PROJECT #

ALE OF RINGS GOLF COUNSE MAINTENANCE BUILDING

INSULATION SYSTEM

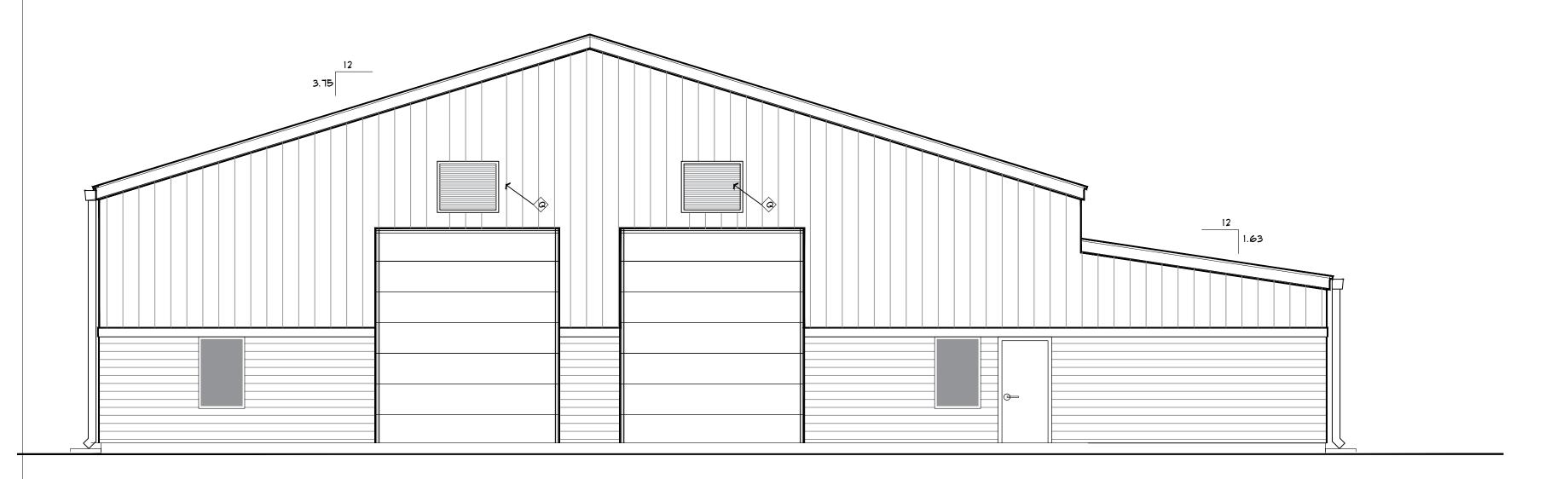
- 1. INSULATION SYSTEM SHALL BE "SIMPLE SAVER SYSTEM" W/ OSHA COMPLIANT FALL PROTECTION OR APPROVED EQUAL.
- 2. INSULATION SHALL BE IN COMPLIANCE W/ FBC 2020 ENERGY CODE FOR METAL BUILDING, CLIMATE ZONE 2, ALL OTHER CATEGORY.

CLIMATE ZONE	•	1	2		
CLIMATE ZONE	All other	Group R	All other	Group R	Al
Insulation entirely above roof deck	R-20ci	R-25ci	R-25ci	R-25ci	F
Metal building ^{a, b}	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R11 LS	R-19 + R-11 LS	F R
Attic and other	R-38	R-38	R-38	R-38	
Mass	R-5.7ci ^c	R-5.7ci ^c	R-5.7ci ^c	R-7.6ci	R
Metal building	R-13+ R-6.5ci	R-13 + R-6.5ci	R13 + R-6.5ci	R-13 + R-13ci	F
Metal framed	R-13 + R-5ci	R-13 + R-5ci	R-13 + R-5ci	R-13 + R-7.5ci	F
Wood framed and other	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-
Below-grade wall ^d	NR	NR	NR	NR	
	1				
Mass ^e	NR	NR	R-6.3ci	R-8.3ci	F
Joist/framing	NR	NR	R-30	R-30	
Unheated slabs	NR	NR	NR	NR	
Heated slabs ^f	R-7.5 for 12" below	R-7.5 for 12" below	R-7.5 for 12" below	R-7.5 for 12" below	R 24

For SI: 1 inch = 25.4 mm, 1 pound per square foot = 4.88 kg/m², 1 pound per cubic foot = 16 kg/m³.

- ci = Continuous insulation, NR = No requirement, LS = Liner system.
 - a. Assembly descriptions can be found in ANSI/ASHRAE/IESNA Appendix A.
 - b. Where using R-value compliance method, a thermal spacer block shall be provided, otherwise use the *U*-factor compliance method in Table C402.1.4.
 - c. R-5.7ci is allowed to be substituted with concrete block walls complying with ASTM C90, ungrouted or partially grouted at 32 inches or less on center v

REAR ELEVATION



LEFT SIDE ELEVATION

LEGEND

TYPE 1, COLOR 1, PEMB METAL WALL PANELS

- STEEL PEMB FRAME
- C METAL ROOF PANELS BY PEMB
- TYPE 2, COLOR 2, PEMB METAL WALL PANELS
- PEMB Z-GIRTS

 WALL INSULATION W/ VAPO
- WALL INSULATION W/ VAPOR RETARDER IN COMPLIANCE W/ FBC ENERGY CODE -
- GUTTER, DOWNSPOUT, & CONC. SPLASHBLOCK
- METAL TRIM BAND / FLASHING BY PEMB
- ROOF INSULATION W/ VAPOR RETARDER IN COMPLIANCE W/ FBC ENERGY CODE -
- INTERIOR FINISH COORDINATE W/ OWNER
 8 FT H METAL PANELS BY PEMB IN STORAGE AREA
 5/8" PAINTED GYP BOARD OTHER SPACES
 4" VINYL BASE ALL SPACES EXCEPT STORAGE AREA

VINYL FLOOR TILE ALL SPACES EXCEPT STORAGE AREA

- CEILING 5/8" TYPE X PAINTED GYP BD, COORDINATE W/ OWNER ON 6" 18 GA CEILING JOISTS @ 16" OC.
 TYPICAL ALL SPACES EXCEPT MAIN STORAGE AREA
- CONCRETE FOUNDATION REFER TO STRUCTURAL
- 3-5/8" METAL STUDS (6" @ PLUMBING WALLS IF REQUIRED)
 @ 16" OC W/ 5/8" TYPE X PAINTED GYP BD

 METAL STUD GAUGE, BRACING, ETC SHALL BE PER SIGNED AND SEALED SHOP DRAWINGS FROM THE METAL STUD MANUFACTURER PROVIDE 3.5" BATT INSULATION ALL INTERIOR WALLS THAT ABUTT THE MAIN STORAGE AREA AND ALL MECHANICAL AND BATHROOMS.
 PROVIDE 2 HOUR WALL ASSEMBLY WHERE INDICATED ON PLAN
- PROVIDE 2 HOUR WALL ASSEMBLY WHERE INDICATED ON PLAN

 CONCRETE FLOOR SLAB REFER TO STRUCTURAL, PROVIDE VAPOR BARRIER
- BUILDING SIGNAGE PER OWNER'S SPECIFICATIONS
- PROVIDE UL APPROVED FIRE CAULKING SYSTEM MATCHING FIRE RATING OF WALL @ STEEL BEAM PENETRATIONS
- LOUVERS COORDINATE W/ MECHANICAL DRAWINGS

 PROVIDE UL APPROVED 2HR ASSEMBLY UL I 506 OR APPROVED EQUAL
 (2) LAYERS 5/8" TYPE ULIX GYP BD, LOOSELY LAID ON TOP OF MIN 6" D
 STEEL JOISTS @16" OC AND (3) LAYERS TYPE ULIX GYP BD ATTACHED
 TO THE BOTTOM OF THE STEEL CEILING JOISTS.

EXTERIOR METAL WALL PANELS

NOTE: PROVIDE OWNER WITH AN OPTIONAL PRICE TO
REPLACE TYPE 1 PEMB WALL PANEL WITH A CONTINUATION
OF TYPE 2 PEMB WALL PANEL AND DELETE TRIM BAND H

ELEVATIONS SCALE: 3/16" = 1'-0" HITECT PL AR 00012593

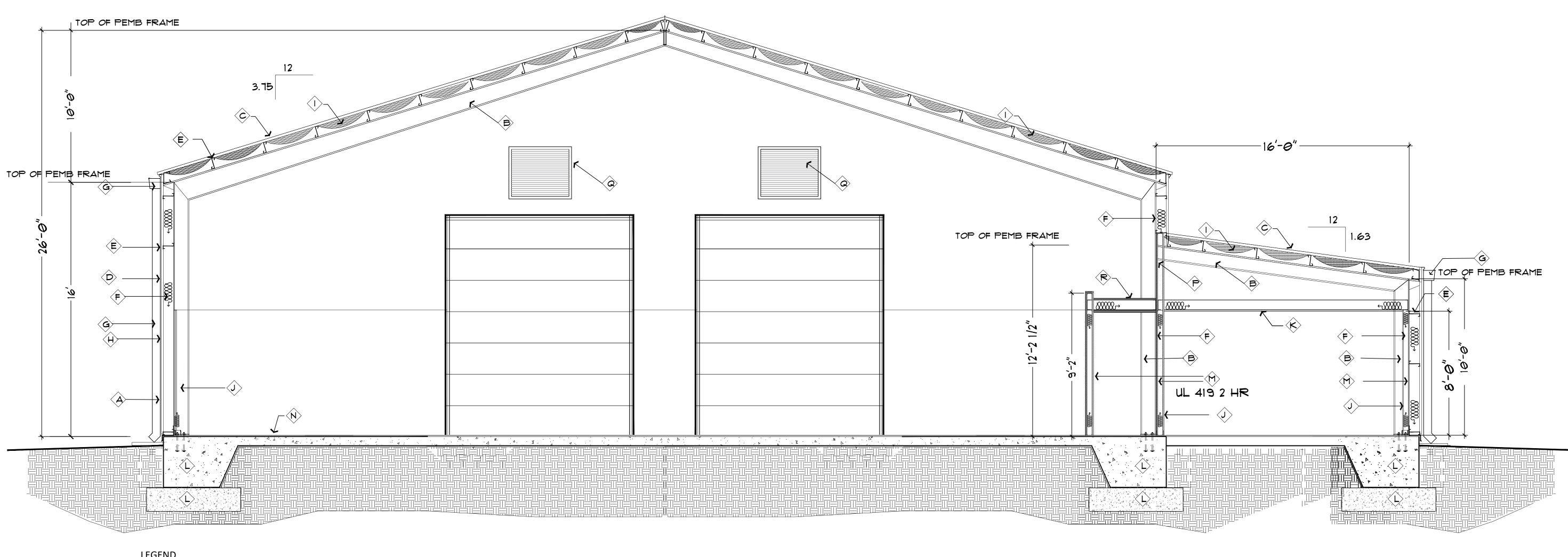
RUSSELL JOHNSON



DATE
DRAWN REVIEWED
REVISIONS
NO. DATE

PROJECT #

AGLE SPRINGS GOLF COURSE MAINTENANCE BUILDING



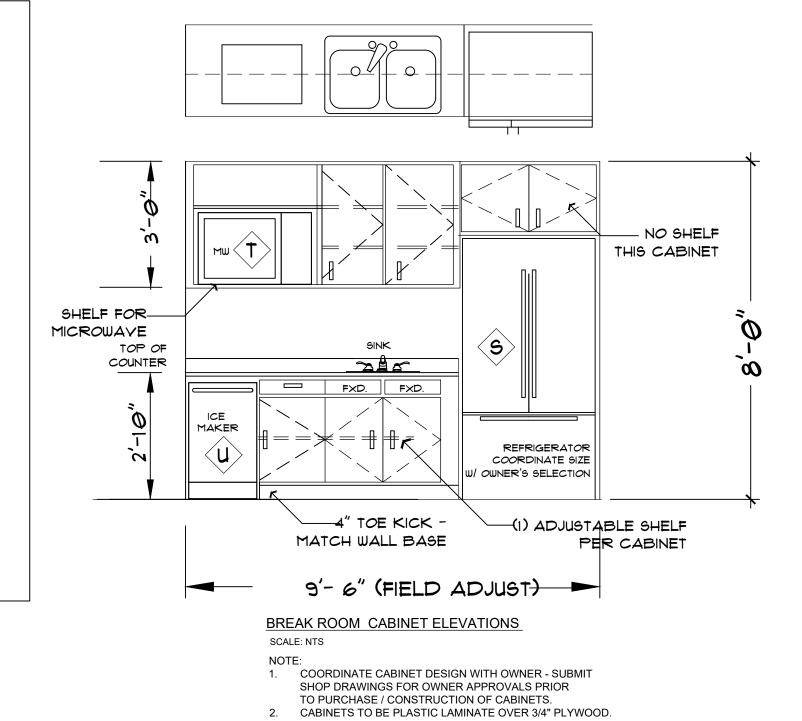
LEGEND

- TYPE 1, COLOR 1, PEMB METAL WALL PANELS
- STEEL PEMB FRAME
- METAL ROOF PANELS BY PEMB
- TYPE 2, COLOR 2, PEMB METAL WALL PANELS
- PEMB Z-GIRTS
- WALL INSULATION W/ VAPOR RETARDER IN COMPLIANCE W/ FBC ENERGY CODE -
- GUTTER, DOWNSPOUT, & CONC. SPLASHBLOCK
- H METAL TRIM BAND / FLASHING BY PEMB
- ROOF INSULATION W/ VAPOR RETARDER IN COMPLIANCE W/ FBC ENERGY CODE -
- INTERIOR FINISH COORDINATE W/ OWNER 8 FT H METAL PANELS BY PEMB IN STORAGE AREA 5/8" PAINTED GYP BOARD OTHER SPACES 4" VINYL BASE ALL SPACES - EXCEPT STORAGE AREA VINYL FLOOR TILE ALL SPACES EXCEPT STORAGE AREA

- CEILING 5/8" TYPE X PAINTED GYP BD, COORDINATE W/ OWNER ON 6" 18 GA CEILING JOISTS @ 16" OC. TYPICAL ALL SPACES EXCEPT MAIN STORAGE AREA
- CONCRETE FOUNDATION REFER TO STRUCTURAL
- 3-5/8" METAL STUDS (6" @ PLUMBING WALLS IF REQUIRED) @ 16" OC W/ 5/8" TYPE X PAINTED GYP BD METAL STUD GAUGE, BRACING, ETC SHALL BE PER SIGNED AND SEALED SHOP DRAWINGS FROM THE METAL STUD MANUFACTURER PROVIDE 3.5" BATT INSULATION ALL INTERIOR WALLS THAT ABUTT THE MAIN STORAGE AREA AND ALL MECHANICAL AND BATHROOMS. PROVIDE 2 HOUR WALL ASSEMBLY WHERE INDICATED ON PLAN
- CONCRETE FLOOR SLAB REFER TO STRUCTURAL, PROVIDE VAPOR BARRIER
- BUILDING SIGNAGE PER OWNER'S SPECIFICATIONS
- PROVIDE UL APPROVED FIRE CAULKING SYSTEM MATCHING FIRE RATING OF WALL @ STEEL BEAM PENETRATIONS
- LOUVERS COORDINATE W/ MECHANICAL DRAWINGS
- PROVIDE UL APPROVED 2HR ASSEMBLY UL I 506 OR APPROVED EQUAL (2) LAYERS 5/8" TYPE ULIX GYP BD, LOOSELY LAID ON TOP OF MIN 6" D STEEL JOISTS @16" OC AND (3) LAYERS TYPE ULIX GYP BD ATTACHED TO THE BOTTOM OF THE STEEL CEILING JOISTS.

APPLIANCE SCHEDULE: COORDINATE W/ OWNER FOR FINAL SELECTIONS. APPROVED EQUALS ARE ACCEPTABLE

- GE 27.8 cu ft FRENCH DOOR REFRIGERATOR w/ Ice Maker Stainless Steel Model #PFE28KYNFS
- GE Profile 2.2 cu. ft. Countertop Sensor MICROWAVE OVEN Stainless Steel Model # PES7227SLSS
- EDGESTAR IB250SS 15" wide 20 lb Built-In ICE MAKER Stainless Steel Model # IB250SS



HARDWARE TO BE STAINLESS STEEL, COMMERCIAL GRADE

DEMISING WALL - U419 OR APPROVED EQUAL

- 1. 3 5/8 " METAL STUDS @ 16" OC GAUGE AND BLOCKING PER MANUFACTURER'S REQUIREMENTS - 25 GA MIN.
- 2. (2) LAYERS OF 5/8" SHEETROCK FIRECODE CORE PANELS EACH SIDE OF WALL - PROVIDE RI9 INSULATION.
- 3. PROVIDE UL APPROVED FIRE RATED ASSEMBLY AT ALL YOIDS \$ PENETRATIONS

BUILDING SECTION NTS

ARCHITECT

JOHNSON NOSNHOC RUSSELL

PROJECT #

S 9 EN MAL

BATHROOM ACCESSORY PRODUCT SELECTION SCHEDULE

NOTE: Specified products listed are for design intent/quality control, approved equals are accepted as approved by owner. Submit complete shop drawings and specs for owner review and approval.

COAT HOOK Bobrick B-6707 satin finished stainless steel finished single utility/coat hook.

GB; Bobrick B-6806.99 series peened satin stainless steel finished grab bars for accessible toilet size 42" L side wall, 36" L back wall

Mirror - Bobrick B-292 1830 seried welded satin stainless steel finish framed mirror with 5" shelf, 18" x 30".

PTC; Bobrick B-262 classic series satin stainless steel finished surface mounted paper towel cabinet for folded paper.

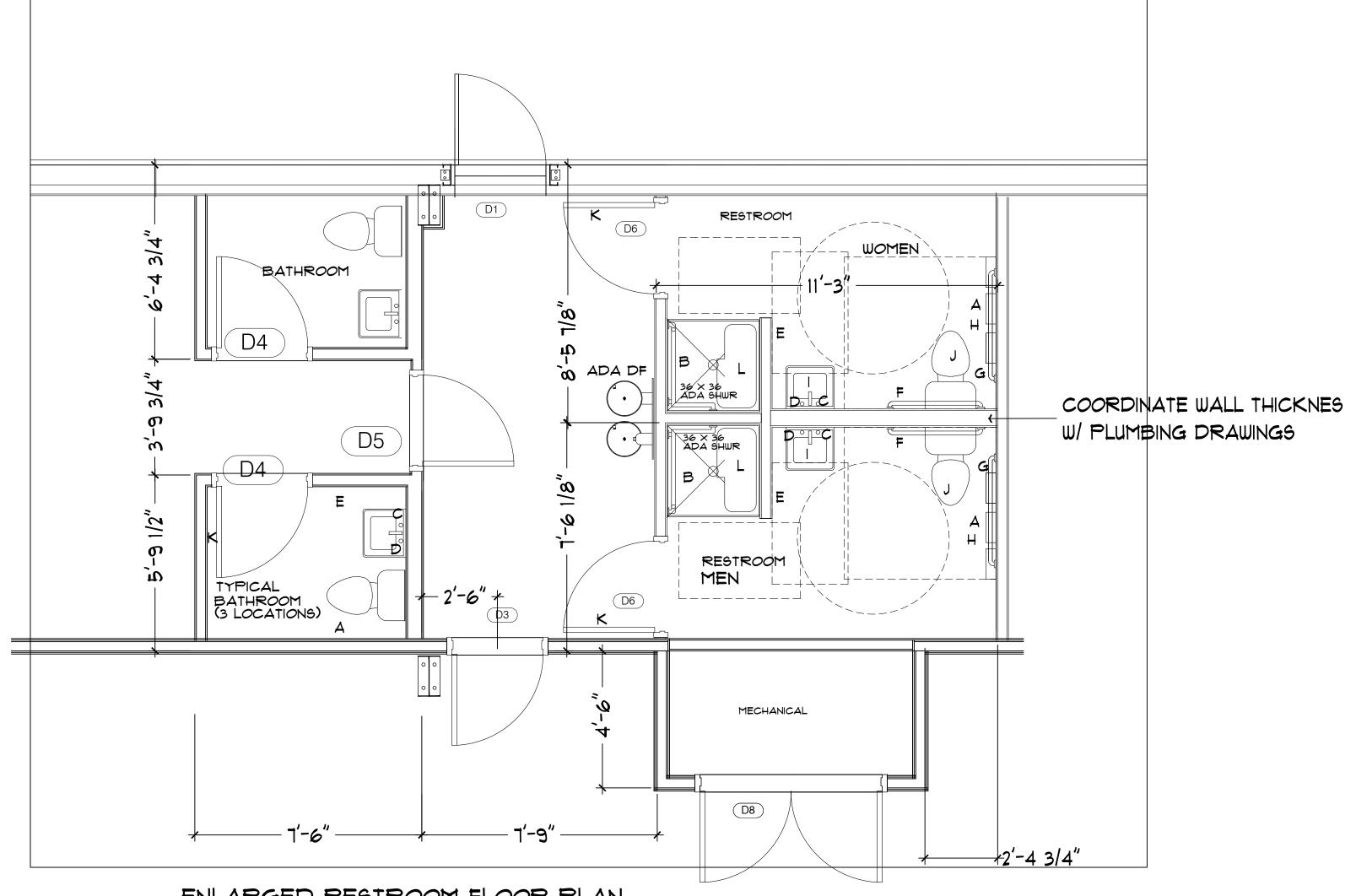
SDISP, Bobrick B-2111 classic series surface mounted soap dispensers with satin stainless steel finish.

TPH; Bobrick B-6867 classic series surface mounted satin stainless steel finish two roll toilet paper holder.

ADA COMPLIANT LAV (exposed piping shall be insulated per ada requirements) ADA COMPLIANT WATER CLOSET -

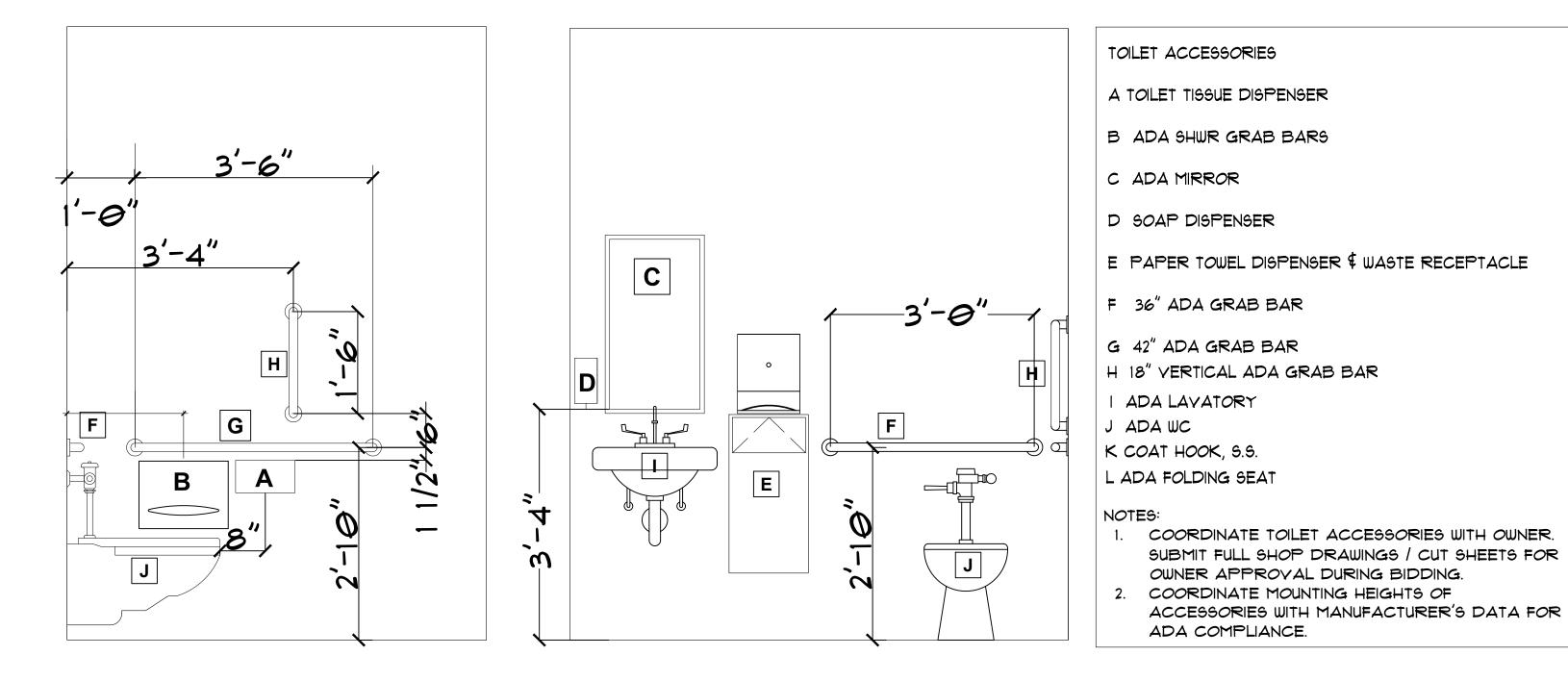
ADA COMPLIANT WALL MOUNTED URINAL - kohler Steward Hybrid K-5244-ET-0 or owner approved equal

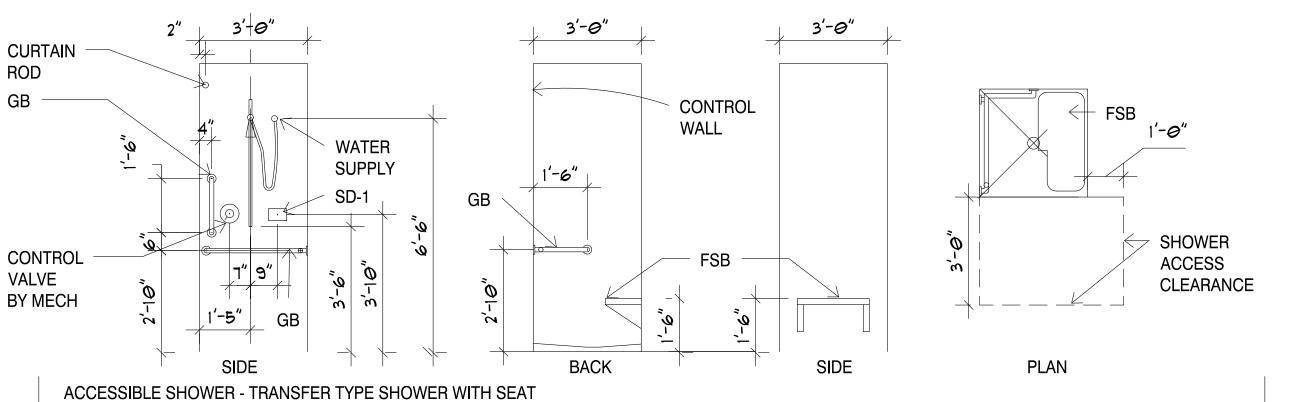
Bobrick B 2260 satin stainless steel floor standing waste receptacle



ENLARGED RESTROOM FLOOR PLAN

3/8" = 1'-0"





- 36" X 36" CLEAR ACCESSIBLE TRANSFER TYPE SHOWER. DIMENSIONS ARE ABSOLUTE CLEAR INSIDE INCLUDING FINISHES.
- PROVIDE HAND HELD SHOWER WITH SLIDE BAR, ADJUSTABLE MECHANISE AND BE OPERABLE WITH ONE HAND WITHOUT TIGHT GRASPING OR TWISTING OF THE WRIST. MAX. 5 LB FORCE TO OPERATE.
- GB BLKG TO BE DESIGNED FOR 250 LB LAT. AND DEAD LOADS.
- HAND HELD SHOWER MUST HAVE A NON-POSITIVE SHUT OFF AND A HOSE THAT IS 59" LONG MIN.

RESSES AND PROPERTIES:

ALLOWABLE BENDING STRESS

TENSION PARALLEL TO GRAIN

HORIZONTAL SHEAF

COMPRESSION PERPENDICULAR TO GRAIN

<u>ABBREVIATIONS</u> ANCHOR BOL ADDITIONAL ALTERNAT ALUMINU ARCHITECTURAL or ARCHITECT воттом о BUILDING BLOCK BLKG BLOCKING **BOTTOM OF STEEL BOTTOM SIDE** BTM or (B) BOTTOM, "BOT" SIM BETWEEN CARRIAGE BOLT COLD FORMED STEE CAST IN PLACE CONTROL JOINT CENTER LINE CONCRETE MASONRY UNIT CASED OPENING COLUMN CONCRETE CONN CONNECTION CONSTRUCTION CONTINUE or CONTINUOUS

CONSTRUCTION JOIN CTR CENTERED, "CNTR'd" SIM DOUBL DIAMETER DIAGONAL **DIMENSIO**

DIA or (ø) DRAWING DOWEL FACH FACH FND EACH FACE EXPANSION JOINT ELEVATION EMBEDDED or EMBEDMEN EDGE OF SLAB EXISTING GRADE EACH SIDE

EACH WAY EXPANSION BOLT FXTFRIOR FAR FACE FINISHED FLOOR ELEVATION FINISHED GRADE FINISH FLANGE FND FOUNDATION

> FACE OF CONCRETE FACE OF MASONRY FACE OF STUD **FULL PENETRATION** FAR SIDE FOOT OR FEET FOOTING GAUGE GALVANIZED GRADE BEAM **GUSSET PLATE** HOLDOWN

HEADED ANCHOR STUD HOT DIP GALVANIZED HDR HEADER HORZ HORIZONTAI HIGH STRENGTH BOLT HSB HEADED SHEAR or "NELSON" STUD H.S.S. HOLLOW STL SECTION or TUBE HSS INSIDE FACE INCH OR INCHES INTERIOR

KIP (1,000 POUNDS) LEFT END LIVE LOAD LONG LEG DOWN LONG LEG HORIZONTAL LONG LEG VERTICAL LONGITUDINAL LAMINATED VENEER LUMBER

LIGHT WEIGHT CONCRETE MASONRY MAXIMUM MACHINE BOL MANUFACTURE MID or (M) MIDDLE MISCELLANEOU M.R.D. METAL ROOF DECK MTRL MATERIA NEAR FACE NOMINA

LLH

NUMBER OR # NEAR SIDE NON-SHRINI N.T.S. NOT TO SCALE NORMAL WEIGHT CONCRETE ON CENTER, "C.C." SIM OVERALL DIM. "O/O" SIM OUTSIDE FACE **OPPOSITE** OVFRSIZEI PRECAST CONCRETE

PEN PENETRATION PERP PERPENDICULAR POINT LOAD PARALLEL STRAND LUMBER PRESSURE TREATED or POST-TENSION RIGHT END RETURN

REQUIRED ROOF LIVE LOAD ROUGH OPENING SLIP CRITICAL SCHEDULE S.D.N. STRUCTURAL DESIGN NOTES SIMILAR SLAB ON GRADE STUD PACK

SPECIFICATIONS STAINLESS STEEL, "S.S." SIM

STIFFENER STRUCTURAL, "STRUCT" SIMILAR SHEAR WAL SYMMETRICAL

T or (T) TOP AND BOTTOM T&S TEMPERATURE & SHRINKAGE REINF. TOP OF TOP SIDI HREADED ROD

"T&S" FOR REINF, ELSE TEMPORARY TOP OF BEAM TOP OF CONCRETE TOP OF FOOTING

TOP OF STEEL TOW TOP OF WAI TRANSVERSE

TYPICAL UNLESS NOTED OTHERWISE, "U.N.O." SIM UWA UNDER WALL ABOVE, "U.W.A." SIM VERT VERTICAL

WIDE FLANGE WORKING POINT WELDED WIRE FABRIC WWM WELDED WIRE MESH

1. GENERAL NOTES:

1.1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH PROJECT SPECIFICATIONS. AND ARCHITECTURAL, MECHANICAL, FLECTRICAL, PLUMBING, AND SITE DRAWINGS, CONSULT THESE DRAWINGS FOR OPENINGS, DEPRESSIONS, EQUIPMENT WEIGHTS AND LOCATIONS. EMBEDDED ITEMS AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

1.2. DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.

1.3. NO STRUCTURAL MEMBER OR COMPONENT SHALL BE CUT, NOTCHED, OR OTHERWISE ALTERED UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS INCURRED BY THE ENGINEER OF RECORD

1.4. DO NOT SCALE DRAWINGS.

1.5. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, AND TIEDOWNS

1.6. DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION ON THE DRAWINGS CAN BE DETERMINED BY THE TITLE OF DETAIL. SUCH DETAILS SHALL APPLY WHETHER OR NOT THEY ARE REFERENCED AT EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE DETERMINED BY THE ENGINEER OF RECORD

1.7. THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCIES RETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.

1.8. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION, THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCE AND SAFETY. THE ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES. SEOUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

1.9. THE REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE STRUCTURAL ENGINEER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR ALSO SHALL BE RESPONSIBLE FOR MEANS, METHOD, TECHNIQUES, SEQUENCES, AND PROCEDURES OF

1.10. PERIODIC SITE OBSERVATION BY FIFL D REPRESENTATIVES OF ATLAS ENGINEERING AND CONSULTING, LLC IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN GENERAL ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHALL NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK.

1.11. ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXCEED LIFE SPAN AND TO ENSURE STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT. A PLANNED PROGRAM OF MAINTENANCE SHALL BE ESTABLISHED BY THE OWNER. THIS PROGRAM SHALL INCLUDE ITEMS SUCH AS, BUT NOT LIMITED TO, PAINTING OF STRUCTURAL STEEL, PROTECTIVE COATINGS FOR CONCRETE, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED

STRUCTURAL ELEMENTS EXPOSED TO SALT ENVIRONMENT OR OTHER HARSH CHEMICALS 1.12. STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS, HANDRAILS, CURTAIN WALL/WINDOW WALL SYSTEMS, COLD-FORMED STEEL FRAMING, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE

1.13. ALL CONSTRUCTION SHALL CONFORM TO THE FLORIDA BUILDING CODE 7TH EDITION (2020). REFERENCE TO OTHER CODES OR STANDARD SPECIFICATIONS REFER TO THE LATEST EDITION OF SUCH CODES OR SPECIFICATIONS, UNLESS STATED OTHERWISE.

1.14. NO PROVISIONS HAVE BEEN MADE FOR VERTICAL OR HORIZONTAL EXPANSION EXCEPT AS SHOWN ON CONTRACT DOCUMENTS.

1.15. FINISH FLOOR ELEVATION (FIRST FLOOR) OF 0"-0" IS USED AS A REFERENCE ELEVATION. SEE CIVIL DRAWINGS FOR ACTUAL ELEVATION.

1.16. THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS AND USE OF CAD FILES BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS IS PROHIBITED UNLESS PRIOR WRITTEN APPROVAL IS

1.17. IN THE EVENT THAT THE STRUCTURAL CONTRACTS DRAWINGS AND SPECIFICATIONS CONFLICT ON INFORMATION, THE STRUCTURAL CONTRACT DRAWINGS SHALL SUPERSEDE

2. <u>CODE DESIGN:</u>

2.1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE.

2.2. FLOOD DESIGN DATA:

FLOOD ZONE = X BFE = N/A

PANEL NO = 12131C0260G

FOUNDATIONS:

3.1. THE FOUNDATIONS ARE DESIGNED FOR AN ANTICIPATED ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF ON COMPACTED FILL IF GEOTECHNICAL INVESTIGATION HAS NOT

3.2. REGARDLESS OF WHETHER OR NOT A GEOTECHNICAL INVESTIGATION IS PERFORMED, NO WARRANTIES, EXPRESSED OR IMPLIED, ARE MADE BY ATLAS ENGINEERING AND CONSULTING, LLC FOR THE PERFORMANCE OF THE FOUNDATION.

3.3. AT A MINIMUM, SITE PREPARATION WORK SHALL INCLUDE:

MANUFACTURER'S WRITTEN INSTRUCTIONS.

WHEN CONCRETE IS BATCHED

STRIPPING AND GRUBBING OF THE BUILDING FOOTPRINT PLUS A MARGIN OF 5 FEET AROUND THE BUILDING, REMOVING ALL ORGANIC MATERIALS. 3.3.2. PROOF ROLLING THE BUILDING SITE TO LOCATE ANY UNFORESEEN SOFT AREAS. ANY SOFT AREAS SHALL BE\EXCAVATED AND REPLACED WITH CLEAN FILL. A DENSITY OF AT

LEAST 95% FOR A DEPTH OF 2 FEET IS REQUIRED UNDER THE BUILDING FOOTPRINT. 3.3.3. ALL FILL SHALL BE CLEAN SAND AND FREE OF ORGANIC MATERIALS. COMPACT FILL IN 12 INCH (UNCOMPACTED THICKNESS) LIFTS TO A MINIMUM OF 95% OF THE MODIFIED

PROCTOR MAXIMUM DRY DENSITY VALUE. 3.3.4. EXCAVATIONS FOR FOUNDATIONS SHALL BE COMPACTED TO 95% FOR A DEPTH OF AT LEAST 2 FEET BELOW THE BOTTOM OF THE FOUNDATION. 3.3.5. DEWATERING MAY BE REQUIRED TO ACHIEVE THE REQUIRED COMPACTION VALUES, AND

IF USED, SHOULD DRAW DOWN THE WATER LEVEL TO AT LEAST 2 FEET BELOW THE

BOTTOM OF THE EXCAVATION. 3.4. SLABS ON GRADE SHALL BE PLACED OVER A 15 MIL. CLASS "B" VAPOR RETARDER, VAPOR RETARDER SHALL BE LAPPED A MINIMUM OF 6". OR AS RECOMMENDED BY THE MANUFACTURER (WHICHEVER IS GREATER) AND TAPED AT ALL JOINTS. ALL PUNCTURES IN THE VAPOR RETARDER SHALL BE REPAIRED PER MANUFACTURER'S WRITTEN INSTRUCTIONS ALL PENETRATIONS THROUGH THE VAPOR RETARDER (COLUMNS, PLUMBING, CONDUITS, ETC) SHALL BE SEALED PER MANUFACTURER'S WRITTEN INSTRUCTIONS, VAPOR RETARDER SHALL BE CONTINUOUS UNDER WALL FOUNDATIONS OR SEALED TO EXTERIOR WALLS PER

4.1. CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI STANDARDS AND

4.2. UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL BE NORMAL WEIGHT AND HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS:

4.2.1. FOUNDATIONS & SLAB-ON-GRADE 4.2.2. STRUCTURAL SLABS 4.000 PSI 4.2.3. CIP BEAMS, COLUMNS & WALLS 4.000 PSI 4.2.4. EXTERIOR RETAINING WALLS

4.3. SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD CYLINDER OR LAB TESTS FOR REVIEW PRIOR TO USE. MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION. MIX SHALL MEET THE REQUIREMENTS OF ASTM C33 FOR COARSE

4.4. CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CONCRETE TICKETS SHALL BE TIME STAMPED

4.5. THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2) HOURS. IF FOR ANY REASON THERE IS A LONGER DELAY THAN THAT STATED ABOVE, THE CONCRETE SHALL BE DISCARDED. IT SHALL BE THE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THE

4.6. CALCIUM CHLORIDES SHALL NOT BE UTILIZED; OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF THE ENGINEER 4.7. CONCRETE MIX DESIGNS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH 7.3. ENGINEERED LUMBER PRODUCTS

PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE. 4.8. CONDUITS, PIPES AND SLEEVES SHALL BE PLACED AND SPACED IN ACCORDANCE WITH ACI 318, 20.6.

4.9. CONCRETE DESIGN MIX SUBMITTALS SHALL INCLUDE TESTED, STATISTICAL BACK-UP DATA AS

4.10. CONCRETE SLABS ON GRADE SHALL BE REINFORCED WITH 6x6 W1.4xW1.4 STEEL MESH OR SYNTHETIC FIBERS AT A MINIMUM RATE OF 3.0 LBS/CY. OR AS RECOMMENDED BY THE FIBER MANUFACTURER FOR CONTROL OF TEMPERATURE AND SHRINKAGE/CRACKING, WHICHEVER IS GREATER, UNLESS NOTED OTHERWISE

4.11. WHEN WATER-BASED ADHESIVE ARE BEING USED ON CONCRETE SURFACES, THE CONTRACTOR SHALL VERIFY THAT THE WATER CONTENT OF THE CONCRETE IS WITHIN THE ALLOWABLE RANGE BEFORE INSTALLATION.

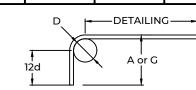
REINFORCING STEEL

5.1. SHALL BE ASTM A615 GRADE 60 DEFORMED BARS, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF ACI STANDADOS AND SDECIFICATIONS

4.12. CHAMFER OR ROUND ALL EXPOSED CORNERS A MINIMUM OF 3/4"

MINIMUM LAP SPLIC	E LENGTH (I	N.) - 3000 PSI	CONCRETE			
	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
FOOTINGS (HORIZ.)	21	23	29	37	50	-
VERT. DOWELS	22	29	36	43	63	72
MINIMUM LAP SPLIC	E LENGTH (II	N.) - 4000 PSI	CONCRETE			
	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
BEAMS/SLABS	-	-	-	-	-	-
- TOP BARS	22	29	36	43	63	72
- OTHER	21	21	26	31	39	51
COLUMNS	16	18	19	22	37	45
C.I.P. WALLS	-	-	-	-	-	-
- VERT. (1 MAT)	21	21	22	25	39	51
- VERT. (2 MATS)	16	18	19	22	34	43
- HORIZONTAL	16	19	27	37	60	74
MINIMUM LAP SPLIC	E LENGTH (I	N.) - 1500 PSI N	NORMAL WEIG	SHT CMU		
	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
6-in CMU WALL	19	25	39	81	-	-
8-in CMU WALL	19	25	31	57	79	113
12-in CMU WALL	19	25	31	53	61	75

RECOMMENED END HOOKS ANCHORAGE LENGTH (IN.) - 3000 PSI CONCRETE							
	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	
D	2.25	3.00	3.75	4.50	5.25	6.00	
A or G	6	8	10	12	14	16	
RECOMMENED END	HOOKS AND	CHORAGE LEN	IGTH (IN.) - 40	00 PSI CONCI	RETE		
	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	
D	2.25	3.00	3.75	4.50	5.25	6.00	
A or G	7	10	12	15	17	19	



5.2. REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE CLEAR COVER UNO (PER ACI

(#6 BARS & LARGER)

(STIRRUPS & TIES)

(WALLS)

(#5 BARS & SMALLER)

318-05 PAR.7.7.1)

5.2.1. CONCRETE CAST AGAINST EARTH: 5.2.2. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:

TO EARTH OR WEATHER:

5.3. SECURE APPROVAL OF SHOP DRAWINGS PRIOR TO COMMENCING FABRICATION.

5.4. PROVIDE STANDARD HOOKS AT DISCONTINUOUS ENDS OF ALL TOP BARS.

5.5. WHERE REINFORCING IS SHOWN CONTINUOUS, SPLICE BOTTOM BARS OVER SUPPORTS AND TOP BARS AT CENTER OF SPAN. ALL OTHER LAP SPLICES SHALL BE IN ACCORDANCE WITH SPLICE TABLES AND DETAILS SHOWN ON DRAWINGS

5.6. PROVIDE DOWELS INTO FOOTINGS, PILE CAPS, SUPPORT BEAMS, ETC. TO MATCH VERTICAL BARS WITH CLASS B TENSION LAP SPLICES, U.N.O.

5.7. WHERE HOOKS ARE SHOWN ON THE PLANS OR DETAILS, HOOKS SHALL BE DETAILED TO EXTEND DEEP ENOUGH INTO SUPPORTING STRUCTURE TO DEVELOP THE FULL STRENGTH OF THE HOOKED BAR. PROVIDE ADDITIONAL TIES OR STIRRUPS IN SUPPORTING STRUCTURE AS REQUIRED TO SATISFY ACI 318 HOOK DEVELOPMENT, CONFINEMENT, AND ANCHORAGE

5.8. ALL REINFORCEMENT SHALL BE BENT COLD, UNLESS OTHERWISE APPROVED BY THE

5.9. SHOP DRAWINGS SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCING STEEL IN MAT SLABS, CAST-IN-PLACE WALLS, AND STRUCTURAL SLABS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

5.10. ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS FOR REINFORCED CONCRETE, "ACI 318" AND THE "MANUALS OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315 (LATEST

5.11. ALL REINFORCING STEEL AND EMBEDMENTS SHALL BE SECURELY TIED AND SUFFICIENTLY SUPPORTED TO MAINTAIN THE POSITION WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES. "WET STICKING" DOWELS INTO CONCRETE IS NOT PERMITTED.

5.12. CONTINUOUS REINFORCEMENT SHALL BE PROVIDED WHEREVER POSSIBLE. REINFORCEMENT SHALL BE SPLICED ONLY AS SHOWN OR NOTED IN THE STRUCTURAL CONTRACT DOCUMENTS. STAGGER SPLICES WHERE POSSIBLE; USE FULL TENSION SPLICE (CLASS "B") UNLESS NOTED OTHERWISE. DOWELS SHALL MATCH THE SIZE AND SPACING OF THE SPECIFIED REINFORCEMENT AND SHALL BE LAPPED WITH FULL TENSION SPLICES (CLASS "B") UNLESS NOTED OTHERWISE, TERMINATE BARS WITH STANDARD HOOKS.

5.13. REINFORCING STEEL SHALL NOT BE WELDED OR TACK WELDED UNLESS APPROVED BY THE

5.14. ALL STEEL REINFORCING USED IN SLAB-ON-GRADE CONSTRUCTION IS REQUIRED TO BE SUPPORTED IN THE CENTER TO UPPER ONE THIRD OF THE SLAB. WELDED WIRE FABRIC:

6.1. SHALL CONFORM TO ASTM A-185, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. 6.2. MINIMUM LAP SHALL BE ONE SPACE PLUS TWO INCHES.

6.3. ALL WELD WIRE MESH USED IN SLAB-ON-GRADE CONSTRUCTION IS REQUIRED TO BE SUPPORTED IN THE CENTER TO UPPER ONE THIRD OF THE SLAB.

7.1. STRUCTURAL GLUED LAMINATED TIMBER SHALL BE PRODUCED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC). MINIMUM ALLOWABLE BENDING STRESS SHALL BE 2,400 PSI (DRY CONDITIONS). 7.2. PROVIDE DRESSED SEASONED LUMBER, S4S, WITH A MAXIMUM MOISTURE CONTENT OF 19%

AT TIME OF DRESSING AS LISTED BELOW. 7.2.1. INTERIOR AND EXTERIOR LOAD-BEARING WALLS: SOUTHERN PINE, NO. 2 GRADE.

7.2.2. LINTELS, FLOOR JOISTS AND BEAMS:

SOUTHERN PINE, NO. 2 GRADE. 7.2.3. WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE FOUNDATION GRADE PRESSURE-TREATED. USE GALVANIZED NAILS IN PRESSURE-TREATED WOOD. THE PROTECTIVE COATING ON LIGHT GAUGE STEEL CONNECTIONS IN CONTACT W/ PRESSURE-TREATED WOOD SHALL BE IN ACCORDANCE WITH THE CONNECTOR MANUFACTURERS RECOMMENDATIONS.

PARALLEL STRAND LUMBER (PSL) SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE STRESSES AND PROPERTIES:

ALLOWABLE BENDING STRESS F/B = 2900 PSI COMPRESSION PERPENDICULAR TO GRAIN F/C[⊥] = 750 PSI COMPRESSION PARALLEL TO GRAIN F/C|| = 2900 PSI HORIZONTAL SHEAF F/V = 290 PSI MODULUS OF ELASTICITY E = 2,000,000 PSI

ALLOWABLE BENDING STRESS F/B = 2600 PSI COMPRESSION PERPENDICULAR TO GRAIN $F/C^{\perp} = 750 PSI$ COMPRESSION PARALLEL TO GRAIN F/C|| = 2510 PS HORIZONTAL SHEAR F/V = 285 PSIMODULUS OF ELASTICITY E = 2,000,000 PS

7.3.2. LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE

7.3.3. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE STRESSES AND PROPERTIES

ALLOWABLE BENDING STRESS F/B = 1700 PSI COMPRESSION PERPENDICULAR TO GRAIN $F/C^{\perp} = 710 PSI$ F/C|| = 1835 PSI COMPRESSION PARALLEL TO GRAIN HORIZONTAL SHEAR F/V = 425 PSIMODULUS OF ELASTICITY

E = 1,300,000 PS 7.3.4. GLULAM BEAMS SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE STRESSES AND

F/B = 3000 PS

F/V = 300 PSI

 $F/C^{\perp} = 805 \, PS$

F/T|| = 1350 PSI

E = 2,100,000 PSI MODULUS OF ELASTICITY 7.3.5. PRESERVED GLULAM BEAMS SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE STRESSES AND PROPERTIES

ALLOWABLE BENDING STRESS F/B = 2400 PSI F/C[⊥] = 740 PSI COMPRESSION PERPENDICULAR TO GRAIN HORIZONTAL SHEAR F/V = 300 PSIMODULUS OF ELASTICITY E = 1,800,000 PS

FLOOR PANELS SHALL BE CONSTRUCTED WITH TONGUE AND GROOVE APA RATED, EXPOSURE 1, 23/32" PLYWOOD. FLOOR PANELS SHALL BE GLUED AND NAILED W/ 10D RING SHANK NAILS @ 4" O/C AT PANEL EDGES AND AT 6" O/C IN THE FIELD.

WALL PANELS SHALL BE CONSTRUCTED WITH APA RATED, EXPOSURE 1, 15/32 SHEATHING, SHEATHING SHALL BE ATTACHED WITH 10D COMMON NAILS @ 3" O/C AT PANEL EDGES AND 6" O/C IN THE FIELD. ALL PANEL EDGES SHALL BE BLOCKED.

ROOF PANELS SHALL BE CONSTRUCTED WITH APA RATED, EXPOSURE 1, 19/32" SHEATHING. SHEATHING SHALL BE ATTACHED WITH 10D RING SHANK NAILS @ 4" O/C AT PANEL EDGES AND AT 6" O/C IN THE FIELD. ALL PANEL EDGES SHALL BE BLOCKED OR ATTACHED WITH SIMPSON PSCA PANEL SHEATHING CLIPS. NAIL HEADS SHALL NOT PENETRATE THE **OUTER SURFACE OF SHEATHING**

7.5. FABRICATED WOOD TRUSSES

7.4. STRUCTURAL PANELS

DESIGN OF WOOD TRUSSES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SUBMIT SHOP DRAWINGS, DESIGN LOAD DATA, AND SUPPORT REACTIONS SEALED BY AN FNGINFFR LICENSED IN THE PROJECT STATE. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS WITH REGARD TO TRUSS. CONFIGURATION. AND THE CONTRACTOR'S INTERPRETATION OF DESIGN LOADS AND DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN OF THE TRUSSES OR TRUSS CONNECTIONS NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS.

7.5.2. ERECTION AND TEMPORARY BRACING OF PREFABRICATED WOOD TRUSSES SHALL BE IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE TRUSS MANUFACTURER AND THE TRUSS PLATE INSTITUTE'S "BRACING WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS SECURE EACH COMMON ROOF TRUSS/RAFTER TO TOP PLATE WITH SIMPSON H-10 OR H-7 HURRICANE CLIP AT ALL BEARING POINTS. USE SIMPSON H-7 AT GIRDER TRUSSES.

7.5.4. TRUSSES ON SITE PRIOR TO INSTALLATION SHALL BE STORED IN A VERTICAL POSITION WITH SUPPORT POINTS PROVIDED AT FINAL BEARING POINTS AND BRACED TO AVOID

PROVIDE A MINIMUM OF TWO STUDS UNDER GIRDER TRUSS END BEARING

7.5.5. INSTALLATION OF ALL TRUSSES SHALL BE DONE USING A SPREADER BAR WITH A THREE POINT VERTICAL PICK AND CARE IS TO BE USED IN LIFTING TO MINIMIZE HORIZONTAL

7.5.6. IMPROPER HANDLING OF THE TRUSSES AS NOTED ABOVE AND IN THE SPECIFICATIONS SHALL MEAN REMOVAL OF THE TRUSSES FROM THE JOB SITI 7.5.7. DOUBLE TRUSSES SHALL BE NAILED TOGETHER W/ 10D @12" O.C. EACH SIDE, TOP AND

BOTTOM CHORDS & WEBS. 7.5.8. TRUSS TO TRUSS CONNECTIONS SHALL BE VERIFIED BY THE TRUSS DESIGNER.

7.5.9. CONTRACTOR TO REFER TO "STANDARD FOR HURRICANE RESISTANT CONSTRUCTION SSTD 10-99 FOR FRAMING REQUIREMENTS OF WOOD FRAMED WALL SYSTEMS.

FLOOR TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS UNLESS A SPECIAL LOADING PATTERN IS PROVIDED BY THE STRUCTURAL ENGINEER OF RECORD. TOP CHORD LIVE LOAD

20 PSF

10 PSF

70 PSF

20 PSF

10 PSF

TOP CHORD DEAD LOAD BOTTOM CHORD DEAD LOAD

7.5.11. ROOF TRUSS LOADS:

ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS UNLESS A SPECIAL LOADING PATTERN IS PROVIDED BY THE STRUCTURAL ENGINEER OF RECORD.

TOP CHORD LIVE LOAD TOP CHORD DEAD LOAD BOTTOM CHORD DEAD LOAD

7.6.1. CONNECTIONS FOR STRUCTURAL TIMBER SHALL BE GALVANIZED STRONG TIF CONNECTORS BY THE SIMPSON COMPANY OR APPROVED EQUAL. CONNECTORS SHALI FOLLOW MANUF. CORROSION PROTECTION RECOMMENDATIONS.

7.6.2. THE NUMBER OF FASTENERS PER CONNECTION SHALL BE THE MAX. ALLOWED FOR THAT

TIE-DOWN NOTES: 8.1. ANCHOR TIE-DOWN RODS SHALL HAVE A MINIMUM SHAFT DIAMETER OF 1/2" (ONE HALF INCH)

8.2. TIE-DOWN RODS MAY BE CONNECTED DIRECTLY TO THE PLAN SPECIFIED 5/8" ANCHOR BOLTS USING A SIMPSON CNW5/8"-1/2" TRANSITION COUPLER NUT ABOVE THE REQUIRED BP3-5/8" AND 5/8" NUT ATOP THE SILL PLATE.

8.3. TIE-DOWN DIRECT CONNECTION MAY BE USED BY UTILIZING SIMPSON SET ANCHORAGE ADHESIVE WITH MINIMUM ROD EMBEDMENT OF 6" WHEREVER CAST-IN-PLACE ANCHOR BOLTS ARE SPECIFIED FOR COUPLED EXTENSION TO ABOVE. 8.4. ANY PLACE WHERE A TIE-DOWN LOCATION IS FILLED WITH STUDS; USE A SIMPSON LTTI31 OR

PRESERVE TENSION LOAD PATH TO FLOORS ABOVE AND/OR BELOW. RESUME INDICATED TIE-DOWN ROD PATH AT ENDS OF STUD PACK IF POSSIBLE. 8.5. SIMPSON LTTI31 & HDU5 HOLDOWNS SHALL BE ANCHORED INTO GROUT FILLED CMU WALLS OR PIERS WITH A SIMPSON SB5/8 OR SSTB ANCHOR BOLT WITH EMBEDMENT PER MFGR.

HDU5 HOLDOWN CONNECTED AT THE TOP AND BOTTOM OF A MINIMUM 2PLY STUD PACK TO

8.6. RODS SHALL INSTALLED PLUMB. THE MAXIMUM ALLOWABLE ROD DRIFT FROM PLUMB SHOULD NOT EXCEED 1.33 DEGREES OR MAXIMUM CENTERLINE OFFSET DISTANCE OF 1.75" PER

8.7. TIE-DOWN RODS SHALL HAVE A SIMPSON BP-3 WITH NUT ATOP THE TERMINAL TOP PLATE. RODS AT SLOPED OR RAKED PLATES SHALL REQUIRE HILLSIDE WASHERS BETWEEN BP-3 AND 8.8. ALL RODS ARE TO BE TIGHTENED AT EACH FLOOR AND THE TOP PLATE CONNECTION AFTER ROOF IS FULLY LOADED. JUST PRIOR TO GYPSUM BOARD INSTALLATION, ALL RODS WITH BE

AND NUT CONNECTIONS TO THE BOTTOM SIDE OF THE FIRST FLOOR FRAMING SHALL BE

TIGHTENED AT THE END OF THE CONSTRUCTION PROCESS PRIOR TO CO. OPTIONAL:

CONTRACTOR MAY INSTALL A SIMPSON BPRTUD AND RTUD TAKE-UP DEVICE AT THE

TERMINAL TOP PLATE CONNECTION TO REMOVED UNWANTED SYSTEM SLACK DUE TO STRUCTURE SETTLING OR CREEP MASONRY WALLS:

9.1. ALL MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530/ASCE 5/TMS 402 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" AND ACI 530.1/ASCE 6/TMS 602 "SPECIFICATION FOR MASONRY STRUCTURES", LATEST EDITION. 9.2. MASONRY UNITS SHALL MEET ASTM C-90 FOR HOLLOW LOAD BEARING TYPE MASONRY WITH

UNIT STRENGTH OF 1900 PSI ON THE NET AREA (f'm = 1500 PSI). MORTAR SHALL BE TYPE "M" OR "S" AND MEET ASTM C-270.

9.3. GROUT SHALL BE 3000 PSI MINIMUM COMPRESSIVE STRENGTH AND MEET ASTM C-476 AND HAVE A SLUMP BETWEEN 8" AND 11" WITH WATER CM RATIO OF 0.55 MAXIMUM AND WITH 3/8"

9.4. PROVIDE HOOKED DOWELS IN FOUNDATIONS FOR VERTICAL REINFORCING ABOVE. REFER TO TABLE FOR SPLICE LENGTH.

9.5. BLOCK CELLS SHALL BE GROUT FILLED WITH VERTICAL REINFORCING BARS AT CORNERS, NTERSECTIONS. EACH SIDE OF OPENINGS AND AS SHOWN ON THE DRAWINGS

9.6. DOWELS SHALL BE USED TO PROVIDE CONTINUITY INTO THE STRUCTURE ABOVE AND/OR BELOW, UNLESS NOTED OTHERWISE,

9.7. USE METAL LATH, MORTAR OR SPECIAL UNITS TO CONFINE CONCRETE AND GROUT TO AREA AS REQUIRED 9.8. MASONRY SHALL BE LAID IN RUNNING BOND PATTERN UNLESS NOTED OTHERWISE. AT FILLED

CELLS LAY UNITS WITH FULL BED JOINTS AROUND CELLS. 9.9. PROVIDE 9 GAUGE GALVANIZED HORIZONTAL JOINT REINFORCING AT ALTERNATE BLOCK COURSES. LADDER TYPE IS RECOMMENDED WITH REINFORCED FILLED CELLS. PROVIDE PREFABRICATED "TEE" OR CORNER SECTIONS AT WALL INTERSECTIONS.

9.10. CONTROL JOINTS SHALL BE CONSTRUCTED IN CONCRETE MASONRY CONSTRUCTION AT A MAXIMUM HORIZONTAL SPACING BETWEEN JOINTS OF 25'-0" AND NOT MORE THAN 12'6" FROM CORNERS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS. CONSTRUCT INTERIOR CONTROL JOINTS AT A MAXIMUM HORIZONTAL SPACING OF 32'-0" OR 16'-0" FROM CORNERS. NO JOINTS SHALL BE LOCATED WITHIN 2'-0" OF STEEL BEAM BEARINGS. HORIZONTAL WALL REINFORCING SHALL BE STOPPED EACH SIDE OF CONTROL JOINTS. SEE ARCHITECTURAL DRAWINGS FOR SEALANT REQUIREMENTS AT CONTROL JOINTS.

9.11. SUBMIT PROPOSED GROUT MIX DESIGNS FOR REVIEW PRIOR TO USE. MIX NUMBER OR OTHER POSITIVE IDENTIFICATION SHALL UNIQUELY IDENTIFY MIX.

9.12. USE OF SUPERPLASTICIZER IS PROHIBITED.

9.13. CELLS TO BE GROUT FILLED SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED, CONTINUOUS VERTICAL GROUT SPACE. 9.14. CLEANOUT OPENINGS SHALL BE PROVIDED AT THE BOTTOM OF CELLS TO BE GROUT FILLED IN

EACH POUR IN EXCESS OF 5 FEET IN HEIGHT. AFTER INSPECTION AND BEFORE GROUTING, THE

9.15. ANY OVERHANGING MORTAR OR OTHER OBSTRUCTION OR DEBRIS SHALL BE REMOVED FROM THE INSIDES OF SUCH CELL WALLS.

REBAR SHALL BE TIED AT THE CLEANOUTS AND THE CLEANOUTS SHALL BE SEALED.

9.16. VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 192 BAR DIAMETERS. 9.17. ALL CELLS SHALL BE FILLED SOLIDLY WITH GROUT (U.N.O). SAMPLE AND TEST GROUT PER

9.18. GROUT SHALL BE POURED IN LIFTS OF 4 FEET MAXIMUM HEIGHT. GROUT SHALL BE CONSOLIDATED AT TIME OF PLACING BY VIBRATING AND RECONSOLIDATED LATER BY

9.19. WHEN TOTAL GROUT POUR EXCEEDS 5 FEET IN HEIGHT, (HIGH LIFT GROUTING), THE GROUT SHALL BE PLACED IN 4-FOOT LIFTS WITH A MINIMUM OF A 30 MINUTE DELAY BETWEEN LIFTS. MINIMUM CELL DIMENSION SHALL BE IN ACCORDANCE WITH TABLE 5 OF ACI 530.1 (3" X 3" FOR COARSE GROUT, 12 FT. MAXIMUM POUR HEIGHT).

9.20. WHEN THE GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE MADE BY STOPPING THE POUR OF GROUT NOT LESS THAN 1-1/2 INCH BELOW THE TOP OF THE UPPERMOST UNIT GROUTED. 9.21. MASONRY WALLS MARKED AS "LOAD BEARING" ARE DESIGNED TO CARRY FLOOR GRAVITY

LOADS AND MUST BE CONSTRUCTED TO SUPPORT THE CONCRETE FLOOR SLAB CONCURRENTLY WITH CONCRETE COLUMN CONSTRUCTION. 9.22. MASONRY WALLS INDICATED AS "INFILL" ARE DESIGNED TO RESIST LATERAL LOADS AND MUST BE CONSTRUCTED AFTER THE CONCRETE SLAB IS CAST AND POST TENSIONING OPERATION IS COMPLETED. INFILL WALLS SHALL BE CONSTRUCTED STARTING AT THE FOUNDATION LEVEL AND WORKING UPWARD ONE LEVEL AT A TIME, DO NOT START NEXT

DAYS CURING FOR GROUT OF WALL BELOW PRIOR TO STARTING WALL ABOVE

9.23. SINGLE STORY MASONRY WALLS INDICATED AS "PARTITION WALLS" SHALL BE CAST ON THICKENED SLAB FOUNDATIONS AND ARE NOT DESIGNED TO CARRY ANY LOADS FROM THE MAIN BUILDING STRUCTURES. ISOLATE TOP OF PARTITION WALLS FROM UNDERSIDE OF CONCRETE SLAB WITH A MINIMUM 1/2" THICK COMPRESSIBLE MATERIAL

HIGHER LEVEL OF WALL PRIOR TO COMPLETION OF WALL BELOW. ALLOW A MINIMUM OF 3

9.24.SUBMIT WRITTEN CONSTRUCTION SEQUENCES AND PROCEDURES PRIOR TO THE START OF MASONRY CONSTRUCTION.

10. CHEMICAL (ADHESIVE) ANCHORS:

10.1. SHALL BE A TWO PART EPOXY POLYMER INJECTION SYSTEM, SUCH AS HILTI HIT HY150, HILTI

10.2. EPOXY TYPES AND BRANDS VARY IN THEIR BOND STRENGTH AND SUITABILITY OF USE DEPENDING ON TYPE OF LOADING, ANCHOR SPACING, ETC. WHEN A PARTICULAR TYPE OF EPOXY IS SPECIFIED IN THESE DRAWINGS, A UNIQUE CALCULATION HAS BEEN MADE BASED ON THE PROPERTIES OF THAT SPECIFIC TYPE OF EPOXY FOR THE SPECIFIC CONDITION SHOWN IN THE DETAIL. SUBSTITUTION OF EPOXY TYPE IS NOT ALLOWED WHERE DETAIL SPECIFIES ONLY ONE TYPE OF EPOXY, WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER OF RECORD. NOT ALL EPOXY BRANDS OR TYPES WILL BE ALLOWED AS SUBSTITUTES.

10.3. SUBSTITUTION OF FPOXIES IN ONE CONDITION SHALL NOT BE CONSTRUED AS APPROVAL TO MAKE SIMILAR SUBSTITUTION OF FPOXIES IN OTHER DIFFERING CONDITIONS, FACH SUBSTITUTION MUST RECEIVE PRIOR WRITTEN APPROVAL BY THE ENGINEER OF RECORD.

10.4. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

10.5. THE MANUFACTURER'S REPRESENTATIVE SHALL TRAIN INSTALLERS.

10.6. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL HOLE CLEAN-OUT REQUIREMENTS ARE FULLY COMPLETED BY THE INSTALLERS PRIOR TO INJECTING EPOXY INTO THE HOLES. 10.7. NO LOAD SHALL BE APPLIED TO THE EPOXY ANCHORS UNTIL THE EPOXY HAS FULLY CURED

AND HAS ACHIEVED IT'S SPECIFIED STRENGTH. 10.8. IF DETAIL SHOWS EPOXY ANCHORS IN SLOTTED HOLES, IT IS IMPERATIVE THAT ANY EXCESS EPOXY IS CLEANED UP FROM AROUND THE ANCHOR ROD. SO THAT IT DOES NOT INTERFERE

WITH ADJUSTABILITY OF ANCHOR ROD IN SLOTTED HOLE.

MECHANICAL ANCHORS: 11.1. SHALL BE EITHER HEAVY DUTY CONCRETE SCREW ANCHOR (SUCH AS POWERS WEDGE-BOLT, SIMPSON TITEN HD. OR HILTI HUS-H) OR WEDGE TYPE EXPANSION ANCHOR (SUCH AS POWERS POWER-STUD, SIMPSON WEDGE-ALL, OR HILTI KWIK BOLT 3).

11.2. TYPE OF ANCHOR SHALL BE AS SPECIFIED ON THE DRAWINGS, WHILE BRAND AND MODEL OF ANCHOR MAY BE SELECTED FROM THE ABOVE LISTED ANCHORS. SUBSTITUTION ANCHORS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVED IN WRITING BY THE ENGINEER OF RECORD PRIOR TO USE.

11.3. IN SOME CASES OF CRITICAL LOADING OR GEOMETRIC CONDITIONS, ONLY SPECIFIC ANCHORS WILL BE ALLOWED, AS NOTED ON THE DRAWINGS. IN THESE CASES, THE SPECIFIED BRAND AND MODEL OF ANCHOR MUST BE USED

11.6. MINIMUM EMBEDMENT DEPTH OF 1/4" TAPCONS INSTALLED IN CONCRETE SHALL BE 1.25" AND

11.4. INSTALL IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

11.5. THE MANUFACTURER'S REPRESENTATIVE SHALL TRAIN INSTALLERS

INSTALLED INTO MASONRY SHALL BE 1.5". SELECT ANCHOR LENGTH AS REQUIRED TO ACHIEVE THE SPECIFIED MINIMUM EMBEDMENT DEPTH. 11.7. TAPCON SCREWS MAY BE REPLACED W/ 0.157" SHANK DIAMETER PAF ANCHORS (HILTI X-U OR EQUAL) ON A 1:1 SUBSTITUTION BASIS. MINIMUM EMBEDMENT DEPTH SHALL BE 1.25" WHEN NSTALLED INTO CONCRETE OR GROUTED MASONRY. FOLLOW MANUFACTURER'S INSTALLATION RECOMMENDATIONS, MINIMUM EDGE DISTANCES, AND PLACEMENT

LIMITATIONS (RELATIVE TO MORTAR JOINTS IN MASONRY) STRUCTURAL STEEL:

CONNECTIONS 1/2" AT EACH END.

ON THE BEAM OR GIRDER SIZE.

12.3. CONNECTIONS

12.1. STEEL WORK SHALL BE NEW AND CONFORM TO THE ANSI/AISC 360-05 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.

12.2. MATERIAL SHALL CONFORM TO THE FOLLOWING, EXCEPT AS NOTED:

WIDE FLANGE SHAPES ASTM A992 (FY=50 KSI ANGLES, CHANNELS AND PLATES **RECTANGULAR HSS ASTM** A500, GRADE B (FY=46 KSI) HIGH STRENGTH BOLTS ASTM A325 OR A490 THREADED RODS ASTM A36 (FY=36 KSI) **HEAVY HEX NUTS** ASTM A563 HARDENED STEEL WASHERS ANCHOR RODS ASTM F1554 GR. 36 (FY=36 KSI)

12.3.1. BOLTS SHALL BE HIGH-STRENGTH, BEARING TYPE IN SNUG TIGHT CONDITION, U.N.O. TIGHTEN BY AN AISC APPROVED METHOD.

12.3.3. FIELD CONNECTIONS SHALL BE BOLTED, EXCEPT AS NOTED OTHERWISE 12.3.4. DETAIL FLOOR AND ROOF FRAMING CONNECTIONS FOLLOWING THE REQUIREMENTS

SHOWN IN THE TYPICAL CONNECTION SCHEDULES SHOWN IN THESE DRAWINGS, BASED

12.3.2. WELDING ELECTRODES SHALL BE PER AWS D1.1. RETURN FILLET WELDS FOR FRAMED

12.3.5. FOR THE PURPOSE OF CORRECTLY INTERPRETING THE CONNECTION SCHEDULES. GIRDERS SHALL BE CONSIDERED AS ANY FLOOR OR ROOF BEAM WHICH CARRIES OTHER FLOOR OR ROOF BEAMS, OR ANY FLOOR OR ROOF BEAM WHICH CARRIES STEEL

12.3.6. DETAIL DIAGONAL BRACING CONNECTIONS AS SHOWN IN THE DETAILS. IF NO DETAIL IS PROVIDED, DETAIL CONNECTION TO DEVELOP THE FULL TENSION CAPACITY OF THE DIAGONAL BRACING MEMBER.

12.4. HIGH STRENGTH BOLTS IN BEARING CONDITION SUPPORTING SIMPLE SPAN BEAMS NOT SUBJECT TO AXIAL LOADS MAY BE INSTALLED TO "SNUG TIGHT" CONDITION IF NORMAL, OR SHORT SLOTTED HOLES ARE USED. THE ENGINEER OF RECORD WILL BE THE ULTIMATE AUTHORITY IN THE USE OF "SNUG TIGHT" BOLTS. IF LONG SLOTTED OR OVERSIZED HOLES ARE USED, BOLTS MUST BE FULLY PRETENSIONED AND SLIP CRITICAL. PROPER SURFACE PREPARATION IS REQUIRED FOR SLIP CRITICAL BOLTS, INCLUDING OMISSION OF PRIMER OR FIRE PROOFING, AS APPROPRIATE.

12.5. BOLTS SHARING LOAD WITH WELDS IN A CONNECTION SHALL BE FULLY PRETENSIONED AND

12.6. WHERE FULLY PRETENSIONED OR SLIP CRITICAL BOLTS ARE REQUIRED, TIGHTENING SHALL BE ACHIEVED USING EITHER TWIST-OFF TENSION CONTROL BOLTS OR DIRECT TENSION INDICATING WASHERS.

12.7. ALL STRUCTURAL STEEL EXPOSED TO EXTERIOR CONDITIONS SHALL BE HOT DIPPED GALVANIZED PER ASTM A123 AND ALL FASTENERS AND HARDWARE SHALL BE HOT DIPPED

12.8. GROUT UNDER BEARING PLATES SHALL BE NON-METALLIC, NON-SHRINK TYPE WITH A OMPRESSIVE STRENGTH OF AT LEAST 5,000 PSI IN 28 DAYS. 12.9. THE CAMBER OF STEEL MEMBERS SHALL BE VERIFIED IN THE SHOP AND THE FIELD. WHEN NO

CAMBER IS INDICATED, TURN THE MEMBER NATURAL CAMBER UP. APPLY FIREPROOFING TO STEEL STRUCTURE CALCULATING THE THICKNESS OF FIREPROOFING BY COMPARING THE ACTUAL MEMBER SIZE TO THE MEMBER SIZE USED IN THE DESIGNATED UL RATING AND ADJUSTING APPROPRIATELY

RAILINGS AND HANDRAILS:

13.1. ENGINEERED RAILING SYSTEM AND CONNECTION OF SAME TO THIS STRUCTURE SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA.

13.2. THE CONFIGURATION OF THE RAILING SYSTEM SHALL BE AS SHOWN ON THE ARCHITECTURAL

13.4. THE LOADS SHALL BE CLEARLY INDICATED ON SHOP DRAWINGS AND SHALL COMPLY WITH

13.3. RAILING SYSTEM AND CONNECTIONS SHALL BE DESIGNED FOR APPLICABLE LOADS AS INDICATED ON THE DRAWINGS AND IN THE BUILDING CODE.

ALL APPLICABLE CODES. 13.5. SHOP DRAWINGS SHALL SHOW AND SPECIFY CONNECTIONS UTILIZED WITHIN THE RAILING SYSTEM AS WELL AS CONNECTIONS TO AND LOADS IMPOSED UPON THE STRUCTURAL SYSTEM

13.6. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY AN ENGINEER

14.1. SHOP DRAWINGS OR REPORTS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE

STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION OR CONSTRUCTION (AS

STRUCTURAL SUBMITTALS

SHOWN ON THESE DRAWINGS.

REGISTERED IN THE STATE OF FLORIDA.

APPLICABLE) U.N.O. 14.1.1. PILE INSTALLATION QUALITY CONTROL

14.1.7. ENGINEERED ROOF AND FLOOR TRUSSES

14.1.2. PILE INSTALLTION MONITORING LOG 14.1.3. CONCRETE ADMIXTURES 14.1.4. CONCRETE STRENGTH TESTS 14.1.5. CONCRETE DETAILING 14.1.6. ENGINEERED FILL COMPACTION TESTING

14.1.8. STEEL JOISTS

14.1.9. STRUCTURAL STEE

14.1.10. HANDRAILS AND STAIRS

RELEASE RECORD REVIEW ONLY / N.F. 06/23/2022

DESIGNER: REVIEWED BY: 22-101-006 PROJECT NO: N.T.S. SHEET SCALE:

SHEET TITLE

STRUCTURAL GENERAL

HEET NO.

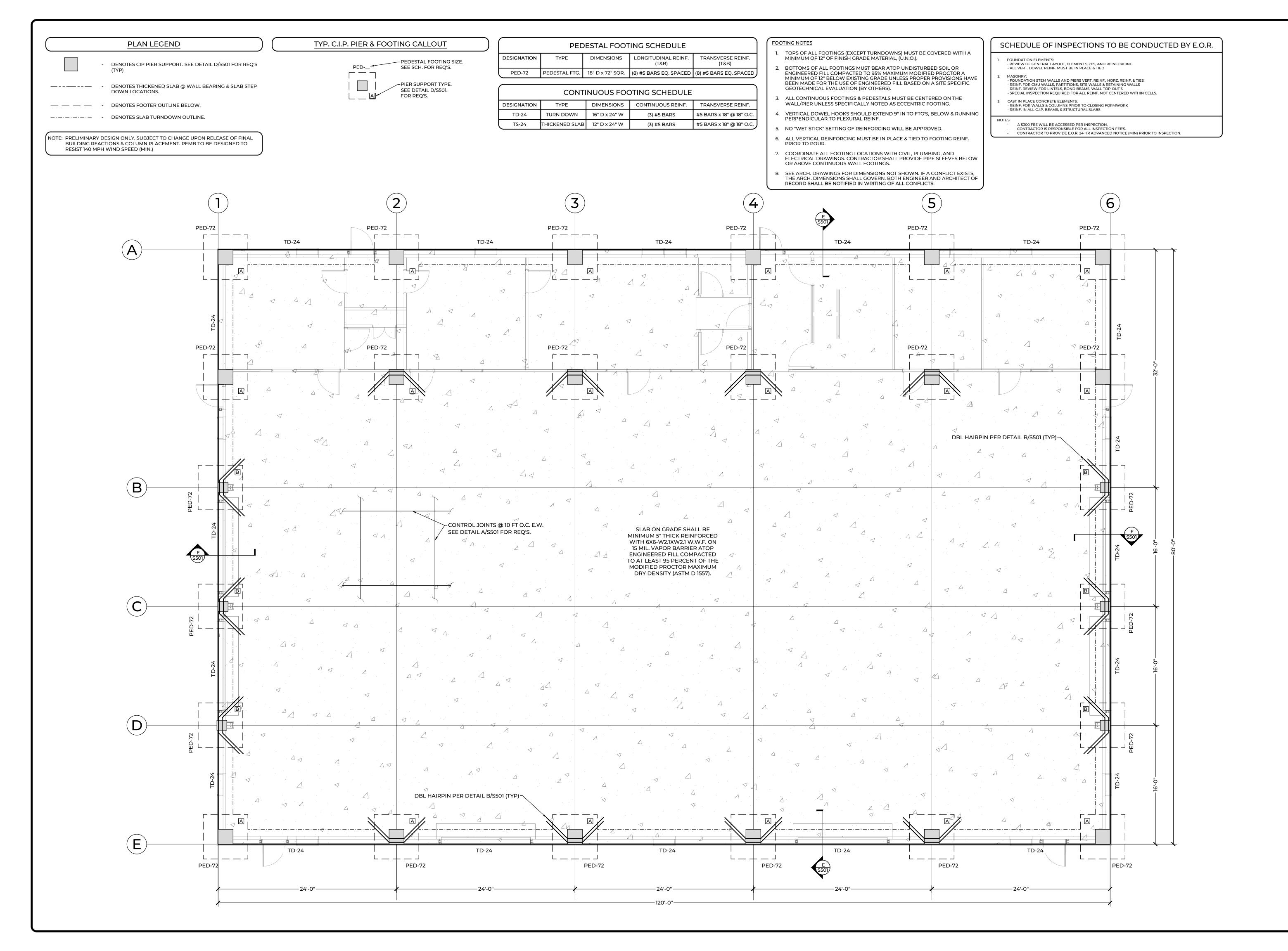
WALTON COUNTY DESIGN CERTIFICATION

DESIGN IS IN ACCORDANCE WITH CHAPTER 16 OF THE FLORIDA BUILDING CODE. ALSO, UPON COMPLETION OF THIS BUILDING AND/OR STRUCTURE, I WILL CERTIFY THAT THE BUILDING AND/OR STRUCTURE HAS COMPLIED WITH THIS SPECIFIC BUILDING DESIGN. THIS MUST BE ON FILE AT THE WALTON COUNTY BUILDING DEPARTMENT BEFORE RECEIVING AN

UNDERSTAND THAT ANY CHANGE IN DESIGN OR SPECIFICATION MUST BE SUBMITTED IN

WRITING BY ME TO THE BUILDING DEPARTMENT.

WITH THE CRITERIA ESTABLISHED BY THE 2020 FLORIDA BUILDING CODE. THIS BUILDING AND/OR STRUCTURE IS DESIGNED TO WITHSTAND A WIND VELOCITY OF 137 MPH. THE WIND





RELEASE RECORD						
REVIEW ONLY / N.F.C.	06/23/2022					

RSL
CLH
22-101-006
1/4"=1'-0" U.N.O



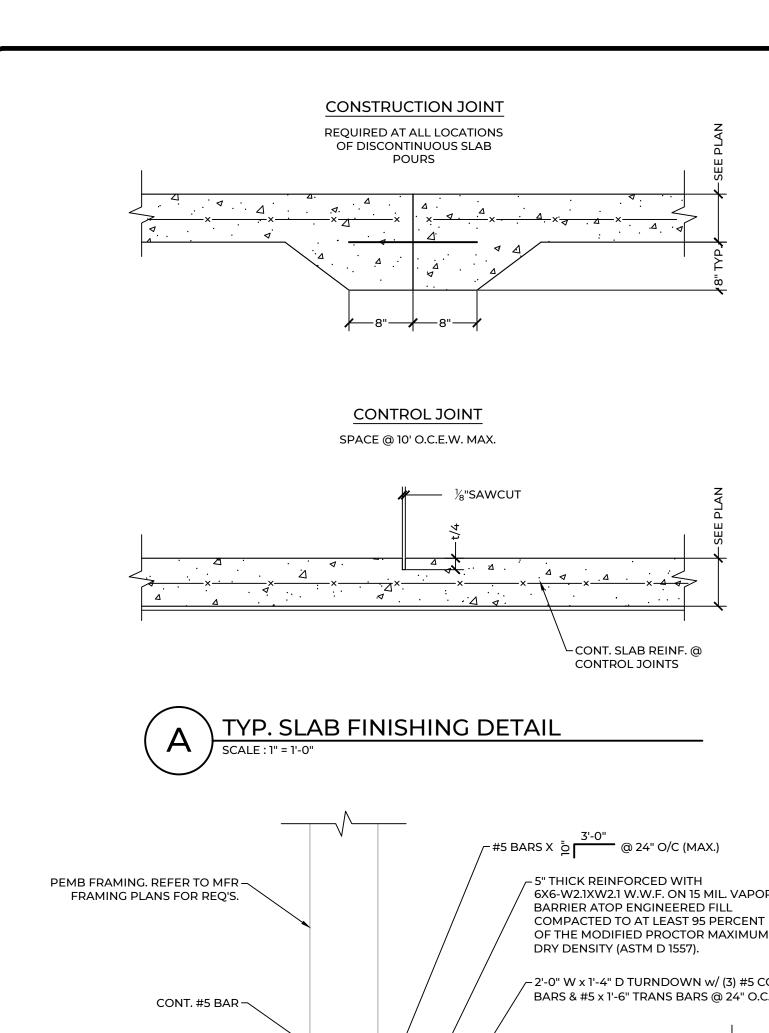
EAGLE SPRINGS
GOLF COURSE
MAINTENANCE BUILDING

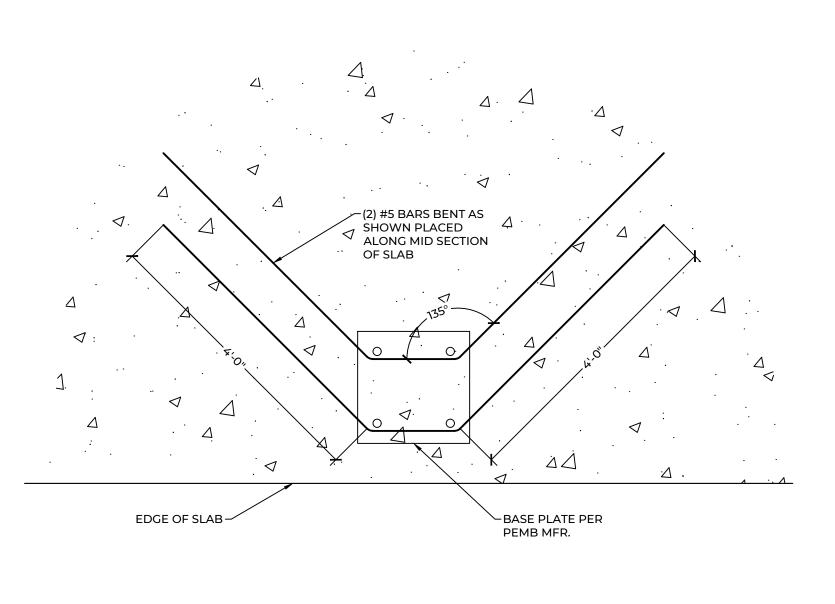
SHEET TITLE

FOUNDATION PLAN

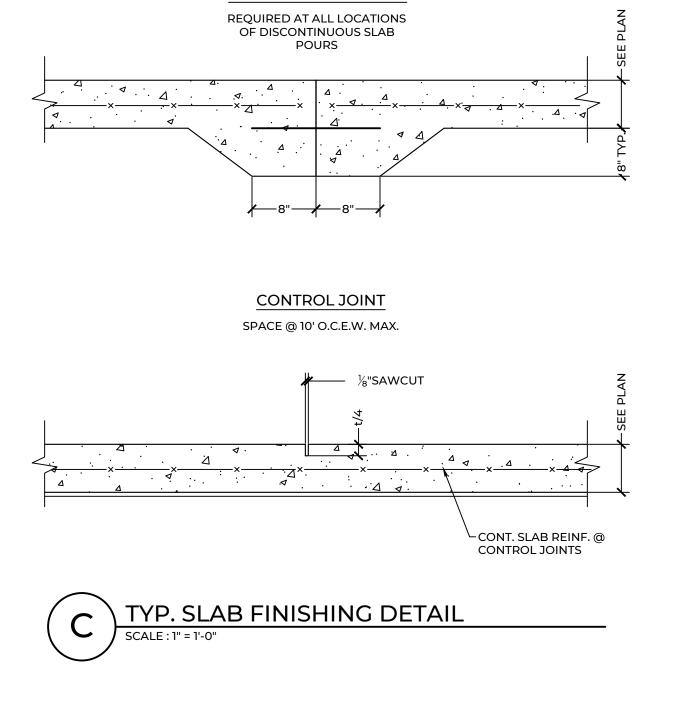
SHEET NO.

S101

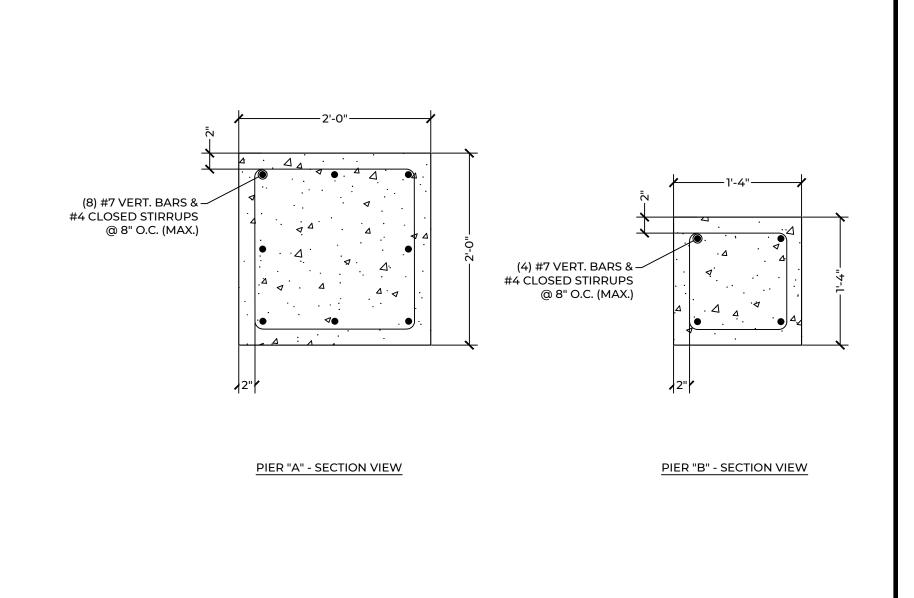


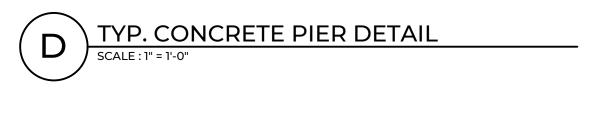


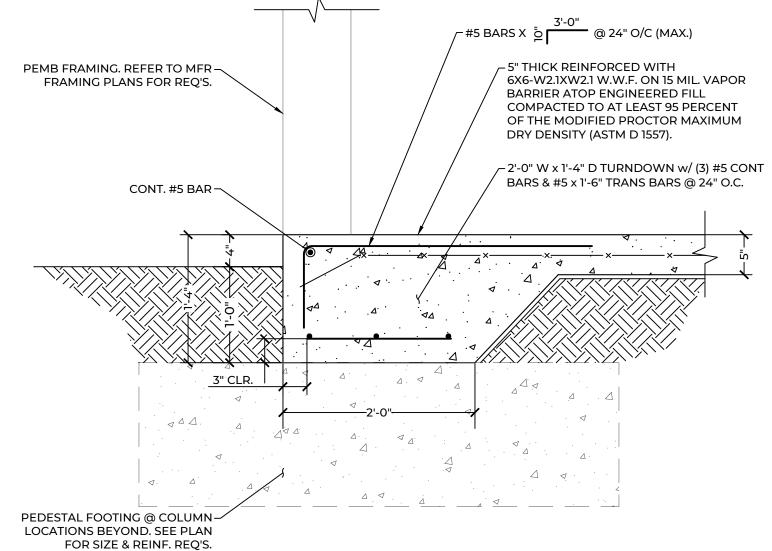
TYP. HAIRPIN DETAIL



CONSTRUCTION JOINT







E TYP. TURNDOWN DETAIL

SCALE: 1" = 1'-0"

NEW PRE-ENGINEERED BUILDING FOUNDATION

EAGLE SPRINGS GOLF COURSE MAINTENANCE BUILDING

WALTON COUNTY, FLORIDA

MOTRUCTION



455 HARRISON AVE, SUITE B
PANAMA CITY, FLORIDA 32401

PHONE: (850) 257-5316 EMAIL: INFO@ATLASENGINEERINGFL.COM REGISTRY NO. 34399

PROJECT IN	FORMATION	
DESIGNER:	RSL	REVIEW ONLY / N.F
REVIEWED BY:	CLH	
PROJECT NO:	22-101-006	
SHEET SCALE:	SEE DETAIL	

REVIEW ONLY / N.F.C. 06/23/2023

RELEASE RECORD

STRUCTURAL CONSTRUCTION
DETAILS

S501

	EXHAUST FAN SCHEDULE											
MARK	SERVICE	CFM	SP	TYPE	OPENING	OUTLET	INTERLOCKED	ACCES.	MOTO R HP	VOLT	ф	MODEL
EF-1	BATHROOM	50	0.1"	CEILING	13-1/4" x 10-5/8"	6"ø	OCC SENSOR	1,2,3,4	FRAC	115	1	GREENHECK SP-A50
EF-2	BATHROOM	50	0.1"	CEILING	13-1/4" x 10-1/8"	6"ø	OCC SENSOR	1,2,3,4	FRAC	115	1	GREENHECK SP-A50
EF-3	BATHROOM	50	0.1"	CEILING	13-1/4" x 10-1/8"	6"ø	OCC SENSOR	1,2,3,4	FRAC	115	1	GREENHECK SP-A50
EF-4	BATHROOM	70	0.1"	CEILING	13-1/4" x 10-1/8"	6"ø	OCC SENSOR	1,2,3,4	FRAC	115	1	GREENHECK SP-A70
EF-5	BATHROOM	70	0.1"	CEILING	13-¼" x 10-%"	6"ø	OCC SENSOR	1,2,3,4	FRAC	115	1	GREENHECK SP-A70
EF-6	GRINDER ROOM	500	0.3"	WALL PROPELLER	20.5X20.5	20.38	WALL SWITCH	1,2,4,5	1/4	115	1	GREENHECK AER-2VG
EF-7,8	STORAGE AREA HEAT AND FUME	5000	0.65"	WALL PROPELLER	38.5X38.5	-	WALL SWITCH	1,2,4,5,6	1	208	1	GREENHECK SBE-3H36-10

ACCESSORIES: 1) BACKDRAFT DAMPER 2) DISCONNECT 3) CEILING GRILLE 4) SPEED CONTROL 5)WALL SLEEVE 6) DAMPER AND 120V MOTOR

SPECIFICATIONS

COOLING CAP.

47,100

HEATING CAP.

46,500

EQUALS: ACME, PENN, COOK, CARNES NOTE: EF-7,8 FOR COMPLIANCE IF STORED VEHICLES EXCEED FUELING LIMITS - AFTER BID OWNER MAY PRECLUDE USE IF IN COMPLIANCE WITH FUELING REQUIREMENTS

	HIGH VOLUME LOW SPEED FAN SCHEDULE									
NO.	SERVICE	CFM	SP	HP	VOLTAGE	ROOM SERVED	TYPE	INTERLOCKED	ACCESS.	GREENHECK FAN MODEL
HVLS-1,2	AREA VENT	29,000	_	1/4	115V	WORK BAYS	CEILING PROPELLER	DDC, VFD SPEED CTRL	1,2,3	BASE 6-12'

ACCESSORIES: 1)DISCONNECT 2)INTERNAL OVERLOAD PROTECTION 3) VFD WITH CONTROLLER 4) HANG KIT

EQUALS: BIG ASS

MARK

AHU-2

EQUALS: YORK, CARRIER, RHEEM

CONVERTIBLE AIR HANDLER

1) MIN. SEER SHALL BE ASHRAE 90.1 OR FBC COMPLIANT

HVAC GENERAL NOTES

- REFRIGERANT LINES FROM OUTDOOR CONDENSING UNITS SHALL BE EXTENDED FROM UNIT THRU WALL TO INDOOR UNITS. REFRIGERANT LINES SHALL BE SIZED AS PER MANUFACTURER'S RECOMMENDATIONS.
- 2. RECT. DUCT DIMENSIONS ARE METAL-TO-METAL SIZES AND INCLUDE AN ALLOWANCE FOR THE 1" DUCT LINER.
- 3. CENTER GRILLES, DIFFUSERS, & REGISTERS IN LAY-IN CEILING TILES.
- 4. ROUND DUCT DIMENSIONS ARE METAL-TO-METAL SIZES AND SHALL BE EXTERNALLY WRAPPED WITH 2" INSULATION.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL CONCRETE CONDENSING UNIT PADS.
- 6. 24V DAMPER OPERATOR TO OPEN WHEN FAN OPERATES, CLOSE WHEN FAN

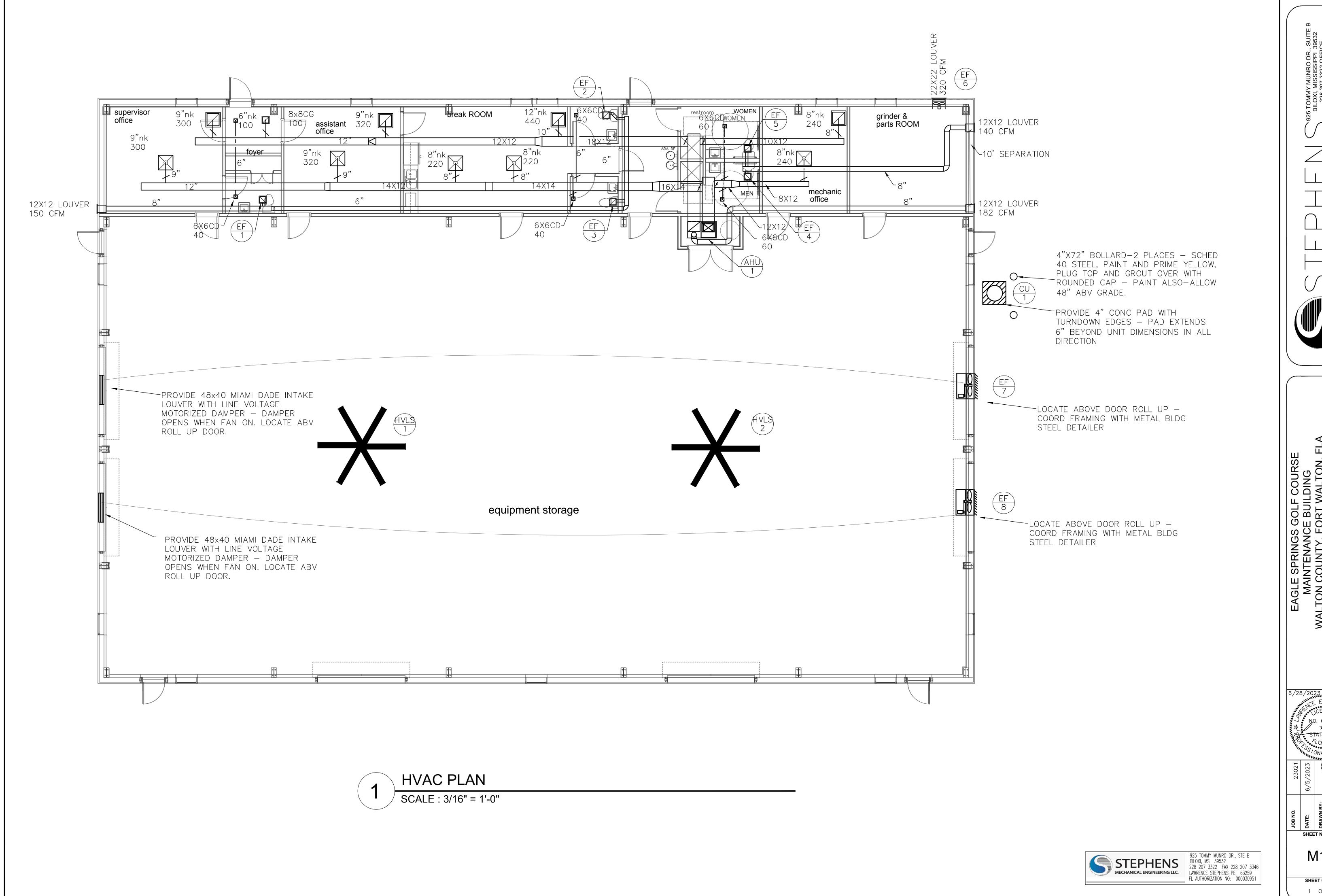
	HVAC LEGEND
<u>12×12</u>	RECTANGULAR DUCT WITH 2" DUCT WRAP
12×12	RECTANGULAR DUCT WITH 1" LINER
	ROUND DUCT WITH 2" DUCT WRAP
 	ROUND DUCT WITH 2" DUCT WRAP
+++++×××+++++	FLEX DUCT
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN/EXHAUST DUCT UP
	RETURN/EXHAUST DUCT DOWN
	SQUARE ELBOW WITH TURNING VANES - RECT. DUCT
	ROUND ELBOW - 5 PIECE 90, 3 PIECE 45
	ROUND ELBOW (12" OR LESS) - 5 PIECE 90, 3 PIECE 45
	MANUAL VOLUME DAMPER
<u>-</u> —M	MOTORIZED VOLUME DAMPER
	CEILING DIFFUSER (FLOW DIRECTION INDICATED)
	RETURN AIR GRILLE
	THERMOSTAT (CONTROLLER LOCATION)
T	THERMOSTAT (BULB LOCATION)
SP	STATIC PRESSURE SENSOR
XX #	EQUIPMENT TAG
FACE FLOW NECK	DIFFUSER/GRILLE TAG
NIC	NOT IN CONTRACT (NO WORK)
CFM	CUBIC FEET PER MINUTE
\$	CUBIC FEET PER MINUTE
ф	ROUND DUCT
	THERMOSTAT

TRANE 4TWR4048G1

SHEET COUNT 1 OF 4

SHEET NUMBER M001

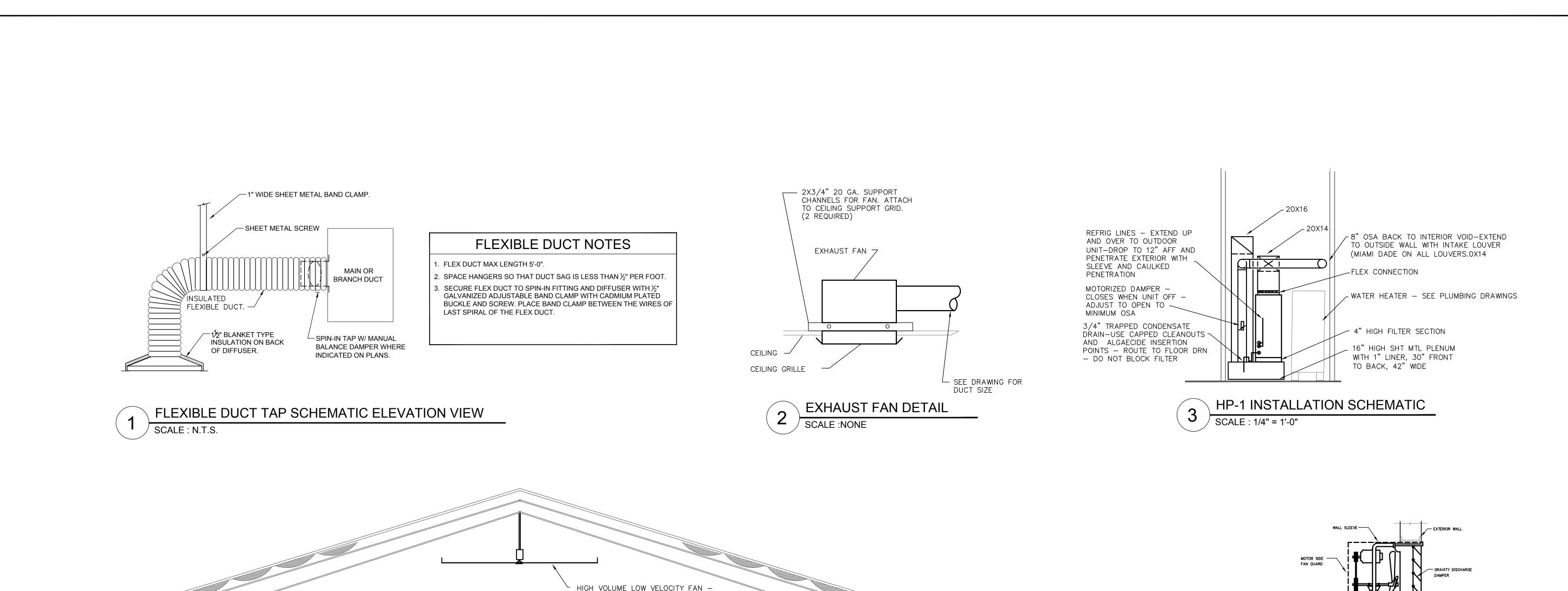
925 TOMMY MUNRO DR., STE B BILOXI, MS 39532 228 207 3322 FAX 228 207 3346 LAWRENCE STEPHENS PE 63259 FL AUTHORIZATION NO: 000030951 STEPHENS MECHANICAL ENGINEERING LLC.

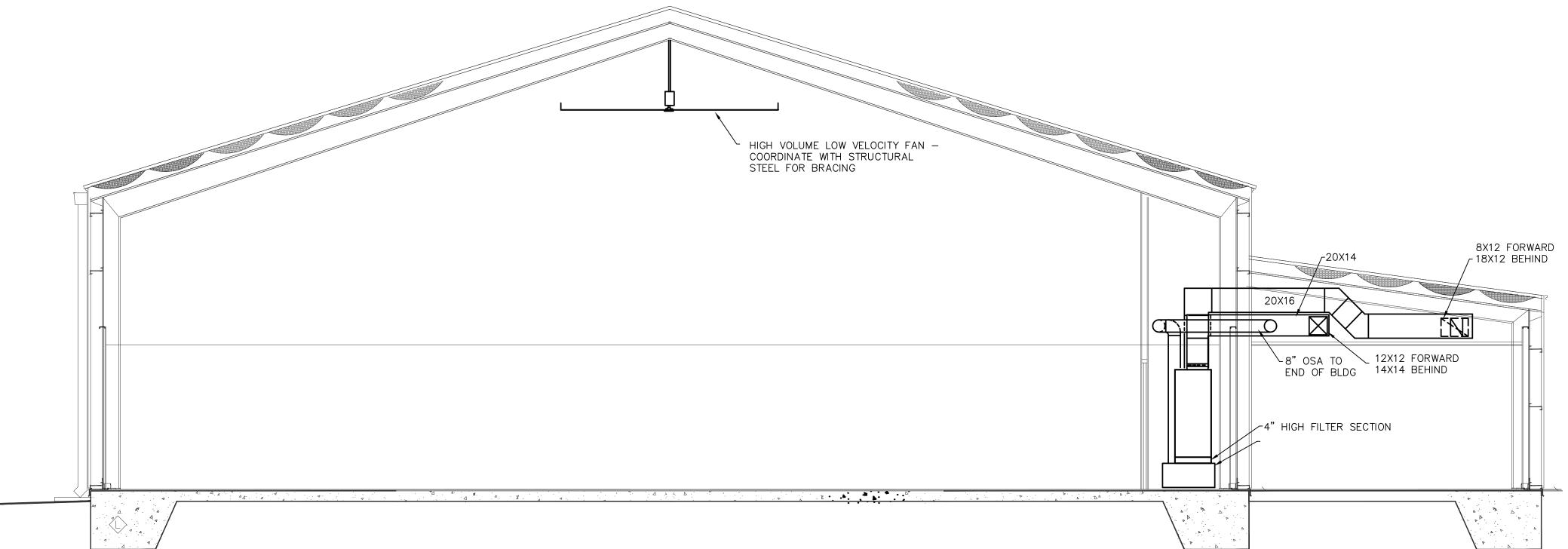


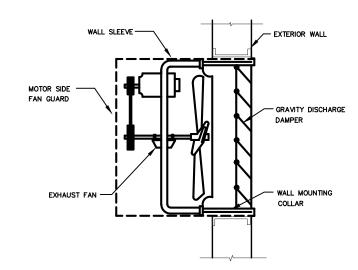
EAGLE SPRINGS GOLF COURSE MAINTENANCE BUILDING WALTON COUNTY, FORT WALTON, F HVAC PLAN

M100

SHEET COUNT 1 OF 4

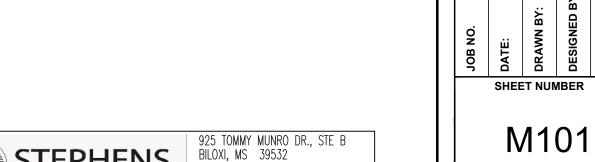






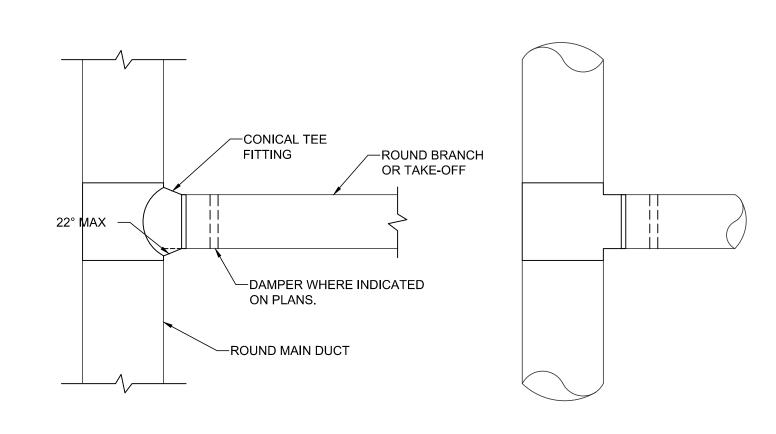
EF-7,8 INSTALLATION SCHEMATIC

ELEVATION VIEW - HVAC



SHEET COUNT 1 OF 4

925 TOMMY MUNRO DR., STE B BILOXI, MS 39532 228 207 3322 FAX 228 207 3346 LAWRENCE STEPHENS PE 63259 FL AUTHORIZATION NO: 000030951 STEPHENS MECHANICAL ENGINEERING LLC.



ROUND DUCT TAP SCHEMATIC - PLAN VIEW

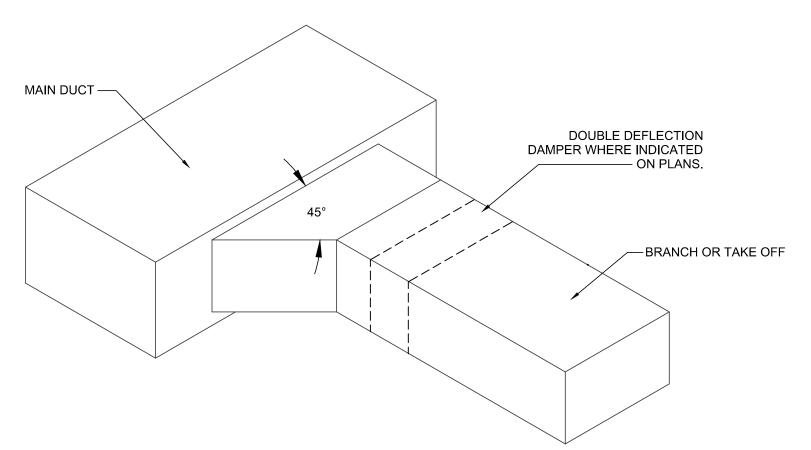
CONDENSATE TRAP SCHEMATIC

Ventilation Sizing Summary for BLOCK LOAD

1. Summary	
Ventilation Sizing Method	
Design Condition	Heating operation
Occupant Diversity (D)	1.000
Uncorrected Outdoor Air Intake (Vou)	
System Ventilation Efficiency (Ev)	0.831
Outdoor Air Intake (Vot)	218 CFM

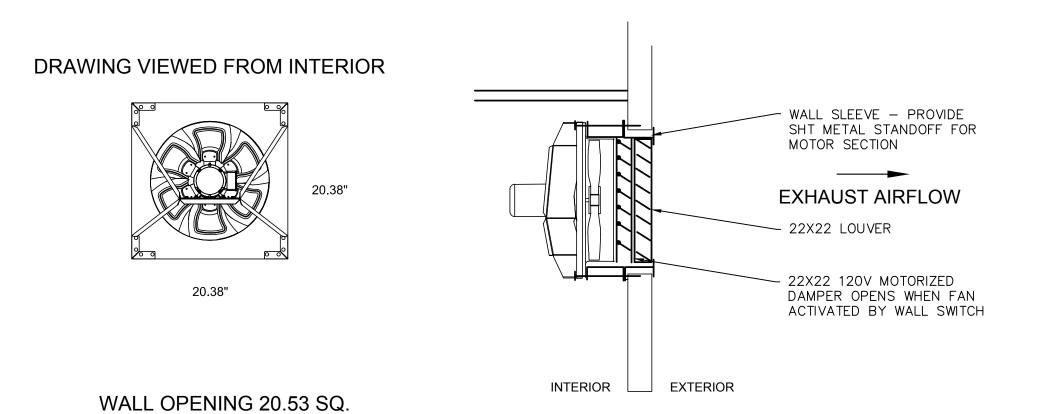
2. Space Ventilation Analysis

			Chasa Elaar	Avec Outdoor	Time	People	۸:	Space 70	Breathing	Snaaa
	S	upply Air (CFM)	•	Area Outdoor Air Rate (CFM/ft²)	Averaged Occupancy (Occupants)	Outdoor Air Rate (CFM/person)	Distribution	Outdoor Air (CFM)	ne Outdoor Air (CFM)	Space Ventilation Efficiency
Zone Name / Space Name	Mult.	(Vpz)	(Az)	(Ra)	(Pz)	(Rp)	(Ez)	(Voz)	(Vbz)	(Evz)
Zone 1										
SUPERVISOR	1	316	118.0	0.06	1.0	5.00	0.8	15	12	1.043
ASSISTANT	1	315	239.0	0.06	1.0	5.00	0.8	24	19	1.014
BREAK ROOM	1	467	336.0	0.12	5.0	5.00	0.8	82	65	0.916
FOYER	1	39	52.0	0.06	1.0	5.00	8.0	10	8	0.831
GRINDER & PARTS	1	355	236.0	0.06	2.0	5.00	0.8	30	24	1.005
MECHANIC OFFICE	1	289	175.0	0.06	2.0	5.00	0.8	26	21	1.002
MENS	1	85	78.0	0.06	1.0	5.00	0.8	12	10	0.947
TOILET LOBBY	1	92	117.0	0.06	1.0	5.00	0.8	15	12	0.928
WOMEN	1	50	88.0	0.06	1.0	5.00	0.8	13	10	0.834
Totals (incl. Space Multipliers)		2008							182	0.831



RECTANGULAR DUCT TAP SCHEMATIC - ISOMETRIC VIEW

MOTOR IS ACCESSIBLE FROM INTERIOR OF BUILDING



EF-6 INSTALLATION SCHEMATIC

925 TOMMY MUNRO DR., STE B BILOXI, MS 39532 228 207 3322 FAX 228 207 3346 LAWRENCE STEPHENS PE 63259 FL AUTHORIZATION NO: 000030951

SHEET COUNT

1 OF 4

WATER CLOSET	WC-1	_	4	3	Ż	-	TANK TYPE FLOOR MOUNTED
WATER CLOSET	WC-2	_	4"	3"	1 " 2	_	TANK TYPE FLOOR MOUNTED - ADA COMPLIANT
LAVATORY	L-1	1¼"	2"	1½"	<u>1</u> "	½"	WALL HUNG
LAVATORY	L-2	1¼"	2"	1½"	<u>1</u> "	1/2"	WALL HUNG — ADA COMPLIANT
KITCHEN SINK	KS-1	1½"	2"	2"	<u>1</u> "	1/2"	STAINLESS STEEL, COUNTER MOUNT, DOUBLE COMPARTMENT
DRINKING FOUNTAIN	EDF-1	1¼"	1½"	1½"	<u>1</u> "	_	WALL HUNG, DUAL HEIGHT FOR ADA, BOTTLE FILLER
SHOWER	SH-2	2"	2"	2"	<u>1</u> "	1/2"	MIXING VALVE, ADA COMPLIANT
WATER HEATER	WH-1	_	_	_	<u>3</u> "	3/4"	SEE WH SCHEDULE
HOSE BIBB	HB-1	_	_	_	<u>3</u> "	3/4"	BOX MOUNTED, FREEZE PROOF, VACUUM BREAKER
FLOOR DRAIN	FD-2	3"	3"	2"	_		TYPE A - STRAINER
					4		

			_		•			•	_			
	WATER HEATER SCHEDULE											
	MARK LOCATION	MIN.	MIN. RECOVERY	TEMP. SETTING	TEMP.	TEMP	TEMP		ELEC	TRICAL		
MARK		STORAGE				VOLT.	PHASE	INPUT	ELEMENTS	REMARKS		
		GAL	GPH	۴	°F	V	Ø	KW	#			
WH-2	MECH CLOSET-MAIN BAY	50	40	140	60	208	3	4.5	2			

2" $\frac{1}{2}$ " - TYPE A - STRAINER, W/ TRAP PRIMER

3X3X12, CHECK VALVE FAUCET W/STOPS, PAIL HOOK, MOP HOOKS, S.S.

SHIELD ON BACK WALL - MIN 24" HIGH WITH FOLDED EDGES.

NOTES: USE SAFETY PAN BELOW HEATER ON FLOOR WITH DRAIN DIRECTED TO FLOOR DRAIN, DIRECT T&P TO FLOOR DRAIN, PROVIDE INLINE CIRCULATOR FOR RETURN - 6GPM @ 12FT, 120V, PROVIDE WITH TIMER TO STOP DURING UNOCCUPIED PERIODS

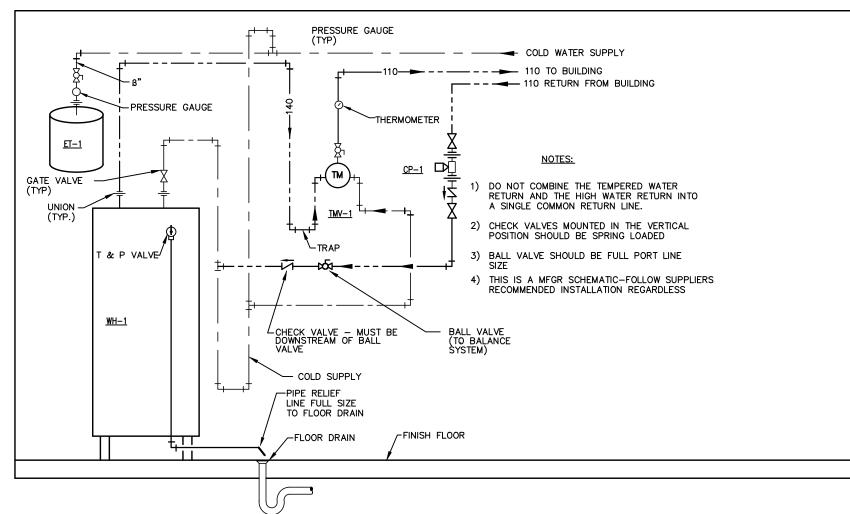
I -	WATER HAMMER ARRESTOR SCHEDULE						
SIZE	FIXTURE UNITS	PDI STANDARD					
1/2"	1-11	А					
3/4"	12-32	В					
1"	33–60	С					
1-1/2"	61–113	D					
1-3/4"	114–154	E					
2"	155-330	F					

FLOOR DRAIN

MOP SINK

GATE VALVE T & P VALVE WH-1	THERMOMETER THERMOMETER THERMOMETER THERMOMETER THERMOMETER THERMOMETER THERMOMETER TO D TO NOT COMBINE THE TEMPERED WATER RETURN INTO A SINGLE COMMON RETURN LINE. 2) CHECK VALVES MOUNTED IN THE VERTICAL POSITION SHOULD BE SPRING LOADED 3) BALL VALVE SHOULD BE FULL PORT LINE SIZE 4) THIS IS A MFGR SCHEMATIC-FOLLOW SUPPLIERS RECOMMENDED INSTALLATION REGARDLESS CHECK VALVE — MUST BE CHECK VALVE — MUST BE COLD SUPPLY PIPER RELIEF LINE FULL SIZE TO FLOOR DRAIN FEORE REMISH FLOOR
-------------------------------	---





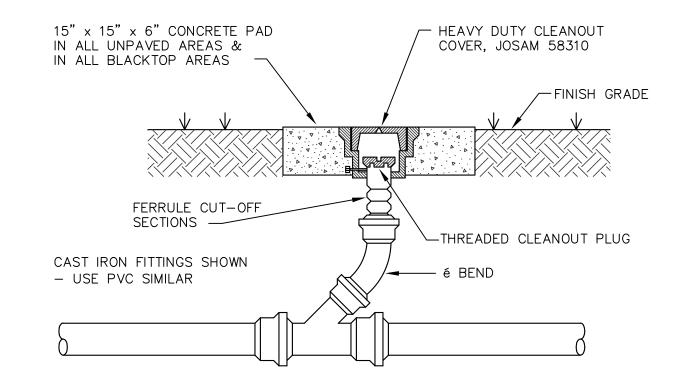
BLDG

BUILDING

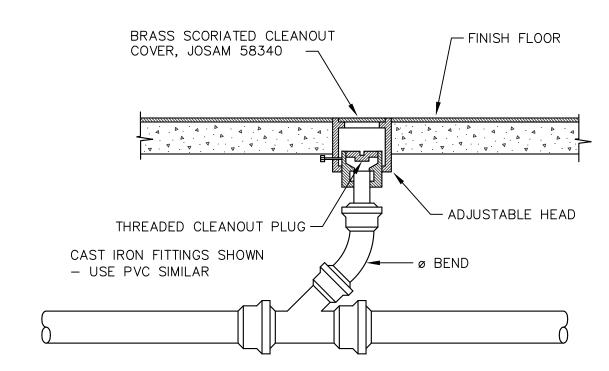
ABOVE FINISH FLOOR

WATER HEATER DETAIL SCALE : NTS

PLUMBING LEGEND ——SS —— SANITARY SEWER — SOIL OR WASTE PIPING (W.) ----- COLD WATER PIPING (CW) ----- HOT WATER RETURN PIPING (HWR) ---- EXIST. HOT WATER PIPING RETURN PIPING (HWR) FINISH FLOOR CLEANOUT FINISH GRADE CLEANOUT VTR VENT THRU ROOF EXIST. **EXISTING** ELEVATION ELEV. UNDERGROUND U.G. ABV. ABOVE CLG. CEILING CONCRETE FINISH FIN. O.C. ON CENTER GATE VALVE (G.V.) ->>-- ---- ____5 BALL VALVE (B.V.) OUNCES oz. (TYP.) TYPICAL DOWN DWN SANITARY



FINISH GRADE CLEANOUT DETAIL SCALE: NTS



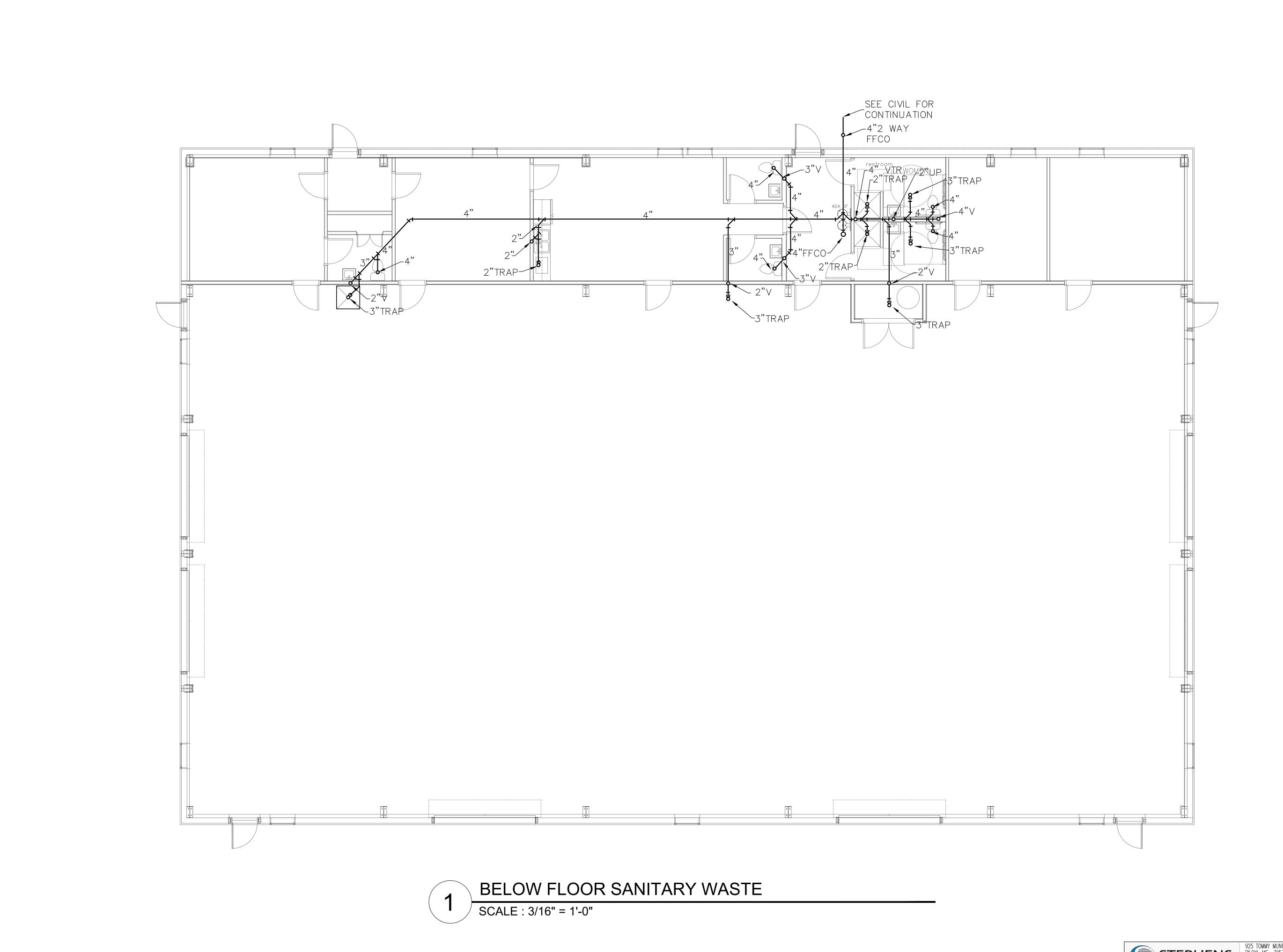
FINISH FLOOR CLEANOUT DETAIL SCALE : NTS



P001

SHEET NUMBER 925 TOMMY MUNRO DR., STE B
BILOXI, MS 39532
228 207 3322 FAX 228 207 3346
LAWRENCE STEPHENS PE 63259
FL AUTHORIZATION NO: 000030951 SHEET COUNT 1 OF 4

CW SUPPLY -CHROME PLATED TRAP PRIMER VALVE EXPOSED PIPING TO BE CHROME PLATED ESCUTCHEON -- FLOOR DRAIN FINISH FLOOR -1/2" TYPE 'K' COPPER U.G. SLEEVE W/ARMAFLEX UNDER & THRU CONC. SLAB.

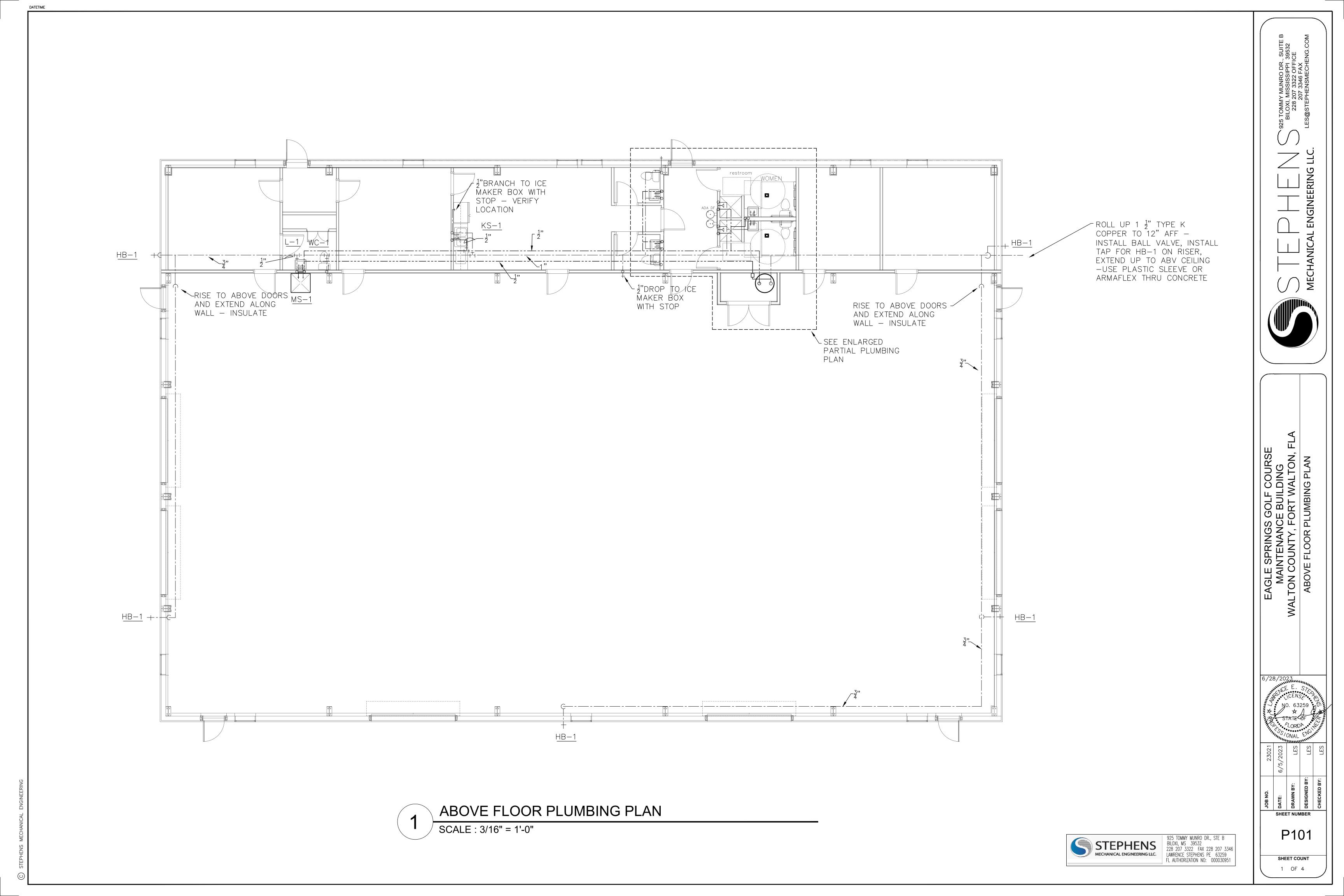


925 TOMMY MUNRO DR., STE B BILOXI, MS 39532 228 207 3322 FAX 228 207 3346 LAWRENCE STEPHENS PE 63259 FL AUTHORIZATION NO: 000030951 STEPHENS MECHANICAL ENGINEERING LLC.

SHEET NUMBER

P100

SHEET COUNT 1 OF 4

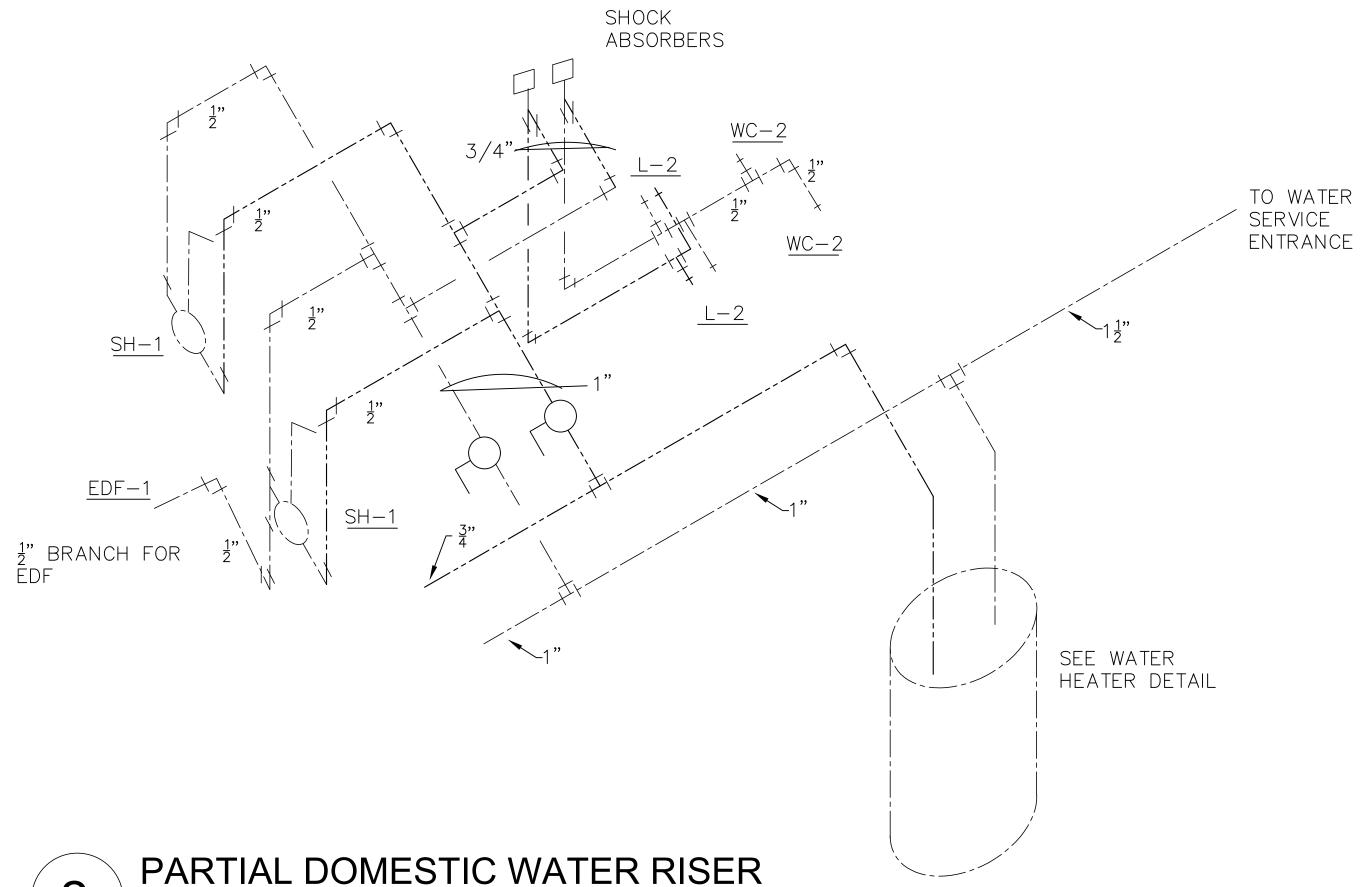




PARTIAL DOMESTIC WATER RISER

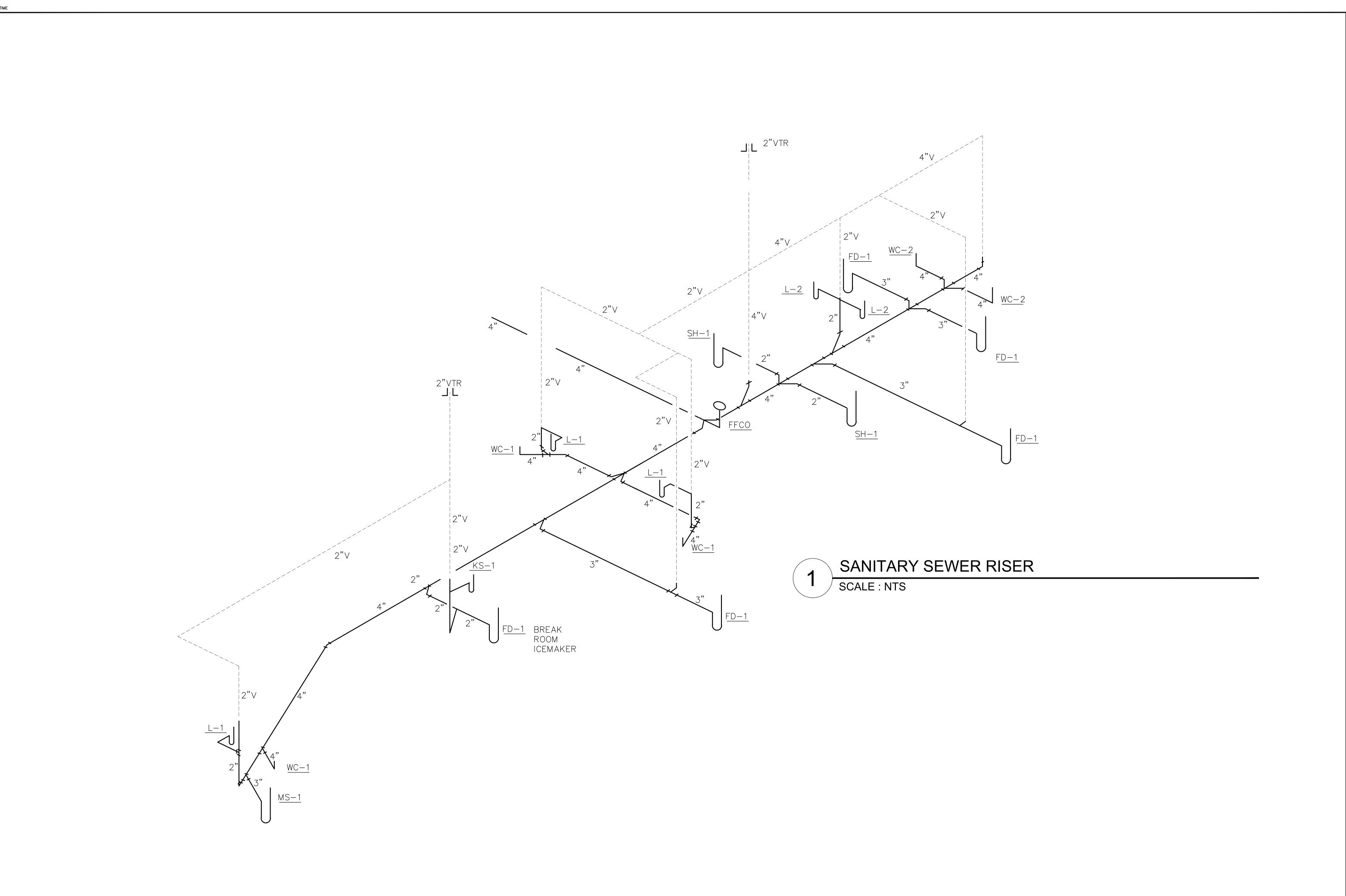
SCALE : NTS

ENLARGED PLUMBING PLAN SCALE : 1/4" = 1'-0"



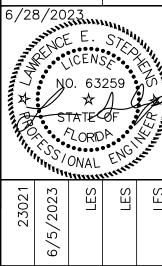
P102

SHEET COUNT 1 OF 4





EAGLE SPRINGS GOLF COURSE MAINTENANCE BUILDING WALTON COUNTY, FORT WALTON, FLA SANITARY SEWER RISER



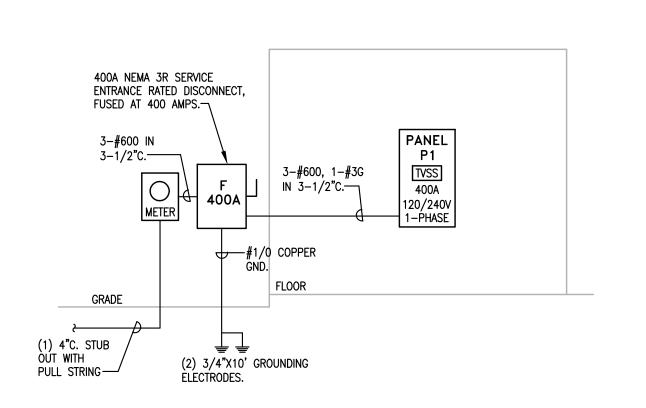
P103 SHEET COUNT

1 OF 4

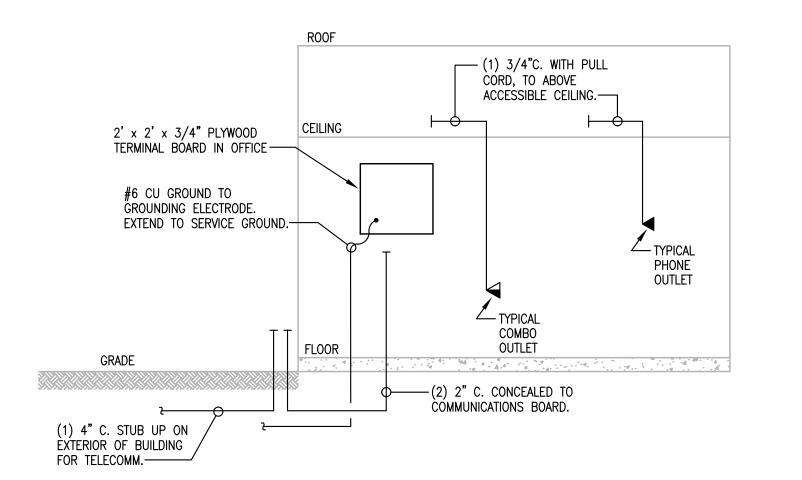
	ELECTRICA		
	LIGHTING		CONDUIT AND WIRE
	SURFACE MOUNT, WRAP FIXTURE	$ \sim\sim$	FLEXIBLE CONDUIT, SEALTITE AT WET LOCATIONS
0	RECESSED CEILING FIXTURE		CONDUIT CONCEALED IN WALL OR ABOVE CEILING
	SURFACE/STRUCTURE HI-BAY FIXTURE		CONDUIT BELOW FLOOR OR CONCEALED IN WALL
4₩	BATTERY BACKUP EMERGENCY/EGRESS FIXTURE	1.	CONDUIT EXPOSED
			CIRCUIT CONDUCTORS IN CONDUIT
	SWITCHES		MULTIPLE CIRCUIT CONDUCTORS IN CONDUIT WITH NEUTRALS
\$	SINGLE POLE SWITCH — 20A, 120/277V, +48" AFF, UNLESS NOTED	─ ✓	GROUND CONDUCTORS IN CONDUIT
\$ ₃	THREE WAY SWITCH - 20A, 120/277V +48" AFF, UNLESS NOTED		CONDUIT UP
\$ ₄	FOUR WAY SWITCH - 20A, 120/277V		CONDUIT DOWN
\$ ₀ c	+48" AFF, UNLESS NOTED MOTION SENSOR SWITCH, WALL MOUNT 48" AFF	XX-XX	CIRCUIT HOMERUN TO PANEL BOARD. XX-XX DENOTES PANEL NAME AND CIRCUIT NUMBER
\$ _F	SINGLE POLE FAN SWITCH - 20A, 120/277V, +48" AFF, UNLESS NOTED		CONTINUATION OF CONDUIT RUN
	PHOTO ELECTRIC CONTROL, MOUNT AT BUILDING		DEVICES
	FACADE, UNLESS NOTED	Н	
	MOTORIZED DOOR OPEN/CLOSE CONTROL	Φ	DUPLEX RECEPTACLE - 20A, 120V
		Ф	GFI DUPLEX RECEPTACLE — 20A, 120V
	SWITCHGEAR	₽ _{MR}	GFI, WEATHER RESISTANT DUPLEX RECEPTACLE — 20A, 120V WITH IN-USE WEATHERPROOF COVER
C	NON FUSED SAFETY SWITCH NEMA 3R AT WET LOCATIONS	Φ ³⁰	SINGLE RECEPTACLE - 30A, 250V, 2W, G
F	FUSED SAFETY SWITCH NEMA 3R AT WET LOCATIONS	^{WR} → ³⁰	SINGLE RECEPTACLE — 30A, 250V, 2W, G WITH IN-USE WEATHERPROOF COVER
⊠P	COMBO MOTOR STARTER/SAFETY SWITCH	₩ ⁵⁰	SINGLE RECEPTACLE - 50A, 250V, 2W, G
_	LIGHT AND POWER PANELBOARD	<u></u>	20A, 120V, CORD CAP, 250V, 2W, G MOUNTED FROM CEILING
<u> </u>	METER		K&H INDUSTRIES RTFH3L-WW-B12K, OR EQUAL
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR	O~~ O 30	30A, 120V, CORD CAP, 250V, 2W, G MOUNTED FROM CEILING K&H INDUSTRIES RTFD3L-WW-B10G, OR EQUAL
	SPECIAL ELECTRICAL CONNECTION		ICES AT +18" AFF, UNLESS NOTED OTHERWISE.
△ WH	WATER HEATER ELECTRICAL CONNECTION		COMMUNICATIONS
△ EF	EX. FAN ELECTRICAL CONNECTION		
△ AHU	AIR HANDLING UNIT ELECTRICAL CONNECTION	◀	TELEPHONE OUTLET +18" AFF, UNLESS NOTED
● ^{CU}	CONDENSING UNIT ELECTRICAL CONNECTION	◀	COMBO DATA/TELEPHONE OUTLET +18" AFF, UNLESS NOTED
		KXXXXX	TELEPHONE/TELEVISION TERMINAL BOARD 3/4" 2'x2' FIRE RATED PLYWOOD

	LUMINAIRE SCHEDULE								
MARK	LAMPS	MOUNTING	DESCRIPTION	MANUFACTURER	EQUALS				
C1	LED	RECESSED CEILING	LED, 6" RECESSED WAFER LIGHT	LITHONIA WF6-LED-35K-MVOLT	OR APPROVED EQUAL				
EWP	LED	WALL; ABOVE DOOR	EMERGENCY/EGRESS FIXTURE, EXTERIOR	ISOLITE OWL-EM-BZ-MB	OR APPROVED EQUAL				
F1	LED	SURFACE CEILING	LED, LOW PROFILE WRAPAROUND FIXTURE	LITHONIA LBL4-4800LM-80CRI-35K-MVOLT	OR APPROVED EQUAL				
F1E	LED	SURFACE CEILING	LED, LOW PROFILE WRAPAROUND FIXTURE, W/EMERGENCY	LITHONIA LBL4-4800LM-80CRI-35K-MVOLT-EL14L	OR APPROVED EQUAL				
Н1	LED	SUSPENDED AT STRUCTURE	LED, ROUND HI-BAY FIXUTRE, SWITCHABLE LUMENS	LITHONIA CPRB-ALO13-UVOLT-SWW9-80CRI-DWH-12000/15000/18000	OR APPROVED EQUAL				
W1	LED	WALL; (VERIFY)	LED, EXTERIOR WALL PACK	LITHONIA TWX1-LED-ALO-40K-MVOLT-DDBTXD	OR APPROVED EQUAL				
W 2	LED	WALL; (VERIFY)	LED, EXTERIOR WALL PACK	LITHONIA TWX2-LED-ALO-40K-MVOLT-DDBTXD	OR APPROVED EQUAL				
XE	RED LED	WALL/CEILING	COMBO EXIT/EMERGENCY EGRESS - 1 SIDE - ALUMINUM HOUSING	ISOLITE DCL-R-U-BA-BA-MTEBP	OR APPROVED EQUAL				

PA	NEL	BUSS: 400 AMP	VOLT: 120/24	0V, 1 PHA	SE, 3 WIRE	:		AIC RATING: 22,000				
F	P1	MAINS: 400A MLO	MOUNT: SURI	MOUNT: SURFACE, NEMA 1					LOCATION: GRINDER & PARTS ROOM			
				LOAD	(AMPS)	LOAD	(AMPS)					
CKT.	BKR.	DESCRIPTION	FEEDER	Α	С	A	С	FEEDER	DESCRIPTION	BKR.	CKT.	
1	20/1	EXTERIOR LIGHTS	2-12, 1-12G	8		13.2		2-12, 1-12G	EQUIP. STOR. LIGHTS	20/1	2	
3	20/1	LIGHTS	2-12, 1-12G		10		8.8	2-12, 1-12G	EQUIP. STOR. LIGHTS		4	
5	20/1	EXHAUST FAN	2-12, 1-12G	5.8		6		2-12, 1-12G	REC GRINDER/PARTS ROOM	20/1	6	
7	20/1	REC COMM. BOARD	2-12, 1-12G		3		7.5	2-12, 1-12G	REC MECH. OFFICE	20/1	8	
9	20/1	REC RESTROOMS	2-12, 1-12G	7.5		6		2-12, 1-12G	REC DRINKING FOUNTAINS	20/1	10	
11	20/1	REC BREAK ROOM	2-12, 1-12G		4.5		4.5	2-12, 1-12G	REC BREAK ROOM	20/1	12	
13	20/1	ICE MACHINE	2-12, 1-12G	10		3		2-12, 1-12G	REC BREAK ROOM.	20/1	14	
15	20/1	REC BREAK ROOM REFRIG.	2-12, 1-12G		8		12	2-12, 1-12G	REC ASSIST. OFFICE	20/1	16	
17	20/1	REC SUPERVISOR OFFICE	2-12, 1-12G	10.5		7.5		2-12, 1-12G	REC EQUIP. STORAGE	20/1	18	
19	20/1	REC EQUIP. STORAGE	2-12, 1-12G		9		1.5	2-12, 1-12G	REC EQUIP. STOR. CORD REEL	20/1	20	
21	20/1	REC EQUIP. STORAGE	2-12, 1-12G	9		5.8		2-12, 1-12G	EQUIP. STOR. FAN	20/1	22	
23	20/1	EQUIP. STOR. FAN	2-12, 1-12G		5.8		5	2-12, 1-12G	ROLL UP DOOR	20/1	24	
25	20/1	ROLL UP DOOR	2-12, 1-12G	5		5		2-12, 1-12G	ROLL UP DOOR	20/1	26	
27	20/1	ROLL UP DOOR	2-12, 1-12G		5		5	2-12, 1-12G	ROLL UP DOOR	20/1	28	
29			0.40.4.400	8		5		2-12, 1-12G	ROLL UP DOOR	20/1	30	
31	20/2	EF-7 AND LOUVER	3-12, 1-12G		8				SPARE	20/1	32	
33				15		8					34	
35	30/2	REC EQUIP. STORAGE	2-10, 1-10G		15		8	3-12, 1-12G	EF-8 AND LOUVER	20/2	36	
37				15		15					38	
39	30/2	REC EQUIP. STORAGE	2-10, 1-10G		15		15	2-10, 1-10G	REC EQUIP. STORAGE	30/2	40	
41				15		15		_			42	
43	30/2	REC GRINDER/PARTS	2-10, 1-10G		15		15	2-10, 1-10G	REC EQUIP. STORAGE	30/2	44	
45				20		15					46	
47	30/2	REC EXTERIOR	3-10, 1-10G		20		15	2-10, 1-10G	REC GRINDER/PARTS	30/2	48	
49	20/1	SPARE				20		_			50	
51	20/1	SPARE					20	2-10, 1-10G	ICE MACHINE	30/2	52	
53				22		18.75		_			54	
55	30/2	AHU-1 #2	2-10, 1-10G		22		18.75	2-10, 1-10G	WH-1	30/2	56	
57				26		51					58	
59	50/2	CU-1	2-8, 1-10G		26		51	2-6, 1-10G	AHU-1 #1	60/2	60	
				176.8	166.3	194.3	187.1					
					CONNECTE		D DUVEE	A phase	371.1	am	ıps	
					CONNECTE	D LUADO PE	.N FHASE	C phase	353.4	am	ıps	





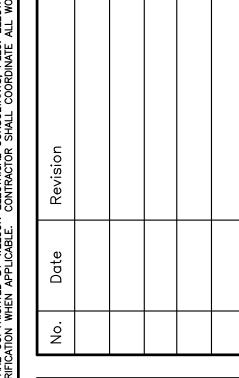


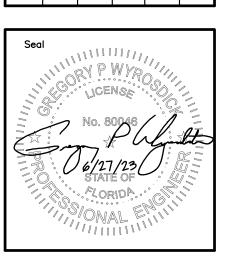
2	COMMUNICATIONS RISER DIAGRAM
E100	SCALE: NONE

ELECTRICAL CONSULTANTS
116 CUSTOMS BOULEVARD, SUITE #1111
GULFPORT, MISSISSIPPI 39503

EAGLE SPRINGS GOLF COURSE MAINT. BUILDING WALTON COUNTY, FLORIDA

ELECTRICAL LEGEND, LUMINASCHEDULE, PANELBOARD SCIAND DETAILS





Project No.	23-SM-03
Date	06/27/2023
Drawn By	WH
Checked By	GPW
Scale	AS SHOWN

Drawing No.

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1 of 3 Sheets

ELECTRICAL GENERAL NOTES AND SPECIFICATIONS

BASIC ELECTRICAL REQUIREMENTS

- 1. ALL ELECTRICAL WORK TO CONFORM TO CURRENT EDITIONS OF THE FLORIDA BUILDING CODES, AND OTHER APPLICABLE LOCAL, STATE, AND FEDERAL LAWS, ORDINANCES, AND REGULATIONS. WHERE DRAWINGS OR SPECIFICATIONS EXCEED CODE REQUIREMENTS, THE DRAWINGS AND SPECIFICATIONS SHALL GOVERN. NO WORK SHALL BE INSTALLED WHICH IS LESS THAN MINIMUM LEGAL STANDARDS.
- ALL WORK PERFORMED UNDER THIS DIVISION SHALL BE INSPECTED AND APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING WORK. NO ADDITIONAL SCOPE WILL BE AUTHORIZED DUE TO LACKING OF UNDERSTANDING ON EXISTING CONDITIONS.
- 4. CONTRACTOR SHALL VERIFY WITH UTILITY COMPANIES FOR SERVICE ENTRANCE REQUIREMENTS TO THE BUILDING/FACILITY. SERVICE ENTRANCES TO BE INSTALLED PER RESPECTIVE UTILITY COMPANY REQUIREMENTS.
- 5. PROVIDE FOR ALL PERMITTING AND INSPECTIONS. INCLUDE PAYMENT OF ALL PERMIT AND INSPECTION FEES APPLICABLE THE WORK IN THIS DIVISION. 6. PROVIDE ONE YEAR WARRANTY, RECORD (AS-BUILT) DRAWINGS, AND OPERATION/MAINTENANCE MANUALS ON ALL ELECTRICAL EQUIPMENT AND LIGHTING.
- 7. DURING CONSTRUCTION, THE CONTRACTOR SHALL EXERCISE CARE AND TAKE APPROPRIATE PRECAUTIONARY MEASURES TO PREVENT ANY DAMAGE TO THE EXISTING STRUCTURES, SIDEWALKS, UTILITIES, COMMUNICATIONS, ETC. DURING THE PROJECT. THE CONTRACTOR SHALL CORRECT ALL DAMAGE CAUSED BY OR DURING THE PROJECT. CONTRACTOR SHALL PROVIDE NOT LESS THAN (2) AND NOT MORE THAN (10) WORKING DAYS ADVANCE WRITTEN, ELECTRONIC, OR TELEPHONIC NOTICE OF THE COMMENCEMENT, EXTENT, LOCATION AND DURATION OF THE EXCAVATION WORK TO LOCAL OR STATE ONE-CALL SYSTEMS AND ANY NONMEMBERS OPERATOR(S) OF ANY UNDERGROUND UTILITY LINES OR UNDERGROUND FACILITIES IN AND NEAR THE EXCAVATION AREA, SO THAT OPERATOR(S) AND ANY NON-MEMBER OPERATOR(S) MAY LOCATE AND MARK THE LOCATION OF UNDERGROUND UTILITY LINES AND UNDERGROUND FACILITIES IN THE EXCAVATION AREA.
- 8. PROVIDE FOR AND INSTALL TEMPORARY LIGHTING AND POWER. COORDINATE WITH OWNER OR UTILITY COMPANY FOR CONNECTIONS. ALL TEMPORARY LIGHTING AND POWER SHALL CONFORM TO OSHA STANDARDS AND ALL CODE REQUIREMENTS.
- 9. WORKERS POSSESSING THE SKILLS AND EXPERIENCE OBTAINED IN PERFORMING WORK OF SIMILAR SCOPE AND COMPLEXITY SHALL PERFORM THE
- 10. FOR PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND THE SIZE AND LOCATION OF EQUIPMENT IS INDICATED TO SCALE WHENEVER POSSIBLE. VERIFY CONDITIONS, DIMENSIONS, INDICATED EQUIPMENT SIZES, AND MANUFACTURER'S DATA AND INFORMATION AS
- NECESSARY TO INSTALL THE WORK OF THIS DIVISION. COORDINATE LOCATION AND LAYOUT WITH OTHER WORK. 11. DRAWINGS INDICATE REQUIRED SIZE AND POINTS OF TERMINATION OF CONDUITS, NUMBER AND SIZE OF CONDUCTORS, AND DIAGRAMMATIC ROUTING OF CONDUIT. INSTALL CONDUITS WITH MINIMUM NUMBER OF BENDS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, KEEP
- OPENINGS AND PASSAGEWAYS CLEAR, AND COMPLY WITH APPLICABLE CODE REQUIREMENTS. 12. OUTLET LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL ELEMENTS PRIOR TO START OF CONSTRUCTION. LOCATIONS INDICATED ON THE
- DRAWINGS MAY BE DISTORTED FOR CLARITY. WHERE INSTALLED AT MILLWORK, OUTLETS SHALL BE LOCATED IN KNEE SPACE OR ABOVE COUNTERTOP. 13. COORDINATE ELECTRICAL WORK WITH ALL OTHER WORK.
- 14. THE SCOPE OF THE ELECTRICAL WORK INCLUDES FURNISHING, INSTALLING TESTING AND WARRANTY OF ALL ELECTRICAL WORK AND COMPLETE ELECTRICAL SYSTEMS SHOWN ON THE ELECTRICAL DRAWINGS AND SPECIFIED HEREIN.
- 15. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL ELECTRICAL SYSTEMS TO PROVIDE A COMPLETE PACKAGE AS INDICATED BY THE CONTRACT DOCUMENTS. THE DOCUMENTS ARE INTENDED TO PROVIDE AN OUTLINE FOR THE REQUIRED INSTALLATIONS. THE CONTRACTOR SHALL ULTIMATELY PROVIDE A COMPLETE AND OPERATIONAL SYSTEM AT THE CONCLUSION OF THE PROJECT.
- 16. DETAILS ARE PROVIDED AS THEY RELATE TO THE INSTALLATION. CONTRACTOR SHALL PROVIDE AND INSTALL ALL MISCELLANEOUS COMPONENTS, PARTS, MATERIALS, FASTENERS, SPLICES, AND ANY OTHER INCIDENTAL ITEMS NECESSARY TO PROVIDE A COMPLETE INSTALLATION.
- 17. ELECTRICAL CONNECTIONS INDICATED ON DRAWINGS SHALL INCLUDE WIRING, INSTALLATION, CONNECTION AND ADJUSTMENT. REQUIRED ELECTRICAL CONNECTIONS SHALL BE PERFORMED FOR SUCH EQUIPMENT AND APPLIANCES. WORK SHALL INCLUDE FURNISHING AND INSTALLING SUITABLE OUTLETS, DISCONNECTING DEVICES, STARTERS, PUSH-BUTTON STATIONS, SELECTOR SWITCHES, CONDUIT, JUNCTION BOXES, AND WIRING NECESSARY
- FOR A COMPLETE ELECTRICAL INSTALLATION. 18. PROTECT MATERIALS AND EQUIPMENT FROM DAMAGE AND PROVIDE ADEQUATE AND PROPER STORAGE FACILITIES DURING PROGRESS OF THE WORK. DAMAGED MATERIALS AND/OR EQUIPMENT SHALL BE REPLACED. REMOVE RUBBISH, DEBRIS AND WASTE MATERIALS AND LEGALLY DISPOSE OF OFF
- 19. REMOVE GREASE AND OIL SPOTS WITH SOLVENT. SUCH SURFACES SHALL BE WIPED AND CORNERS AND CRACKS SCRAPED OUT. EXPOSED ROUGH METAL SHALL BE SMOOTH, FREE OF SHARP EDGES, CAREFULLY STEEL BRUSHED TO REMOVE RUST AND OTHER SPOTS, AND LEFT IN PROPER
- 20. ADVISE THE GENERAL CONTRACTOR OR ARCHITECT BEFORE STARTING THE WORK OF THIS DIVISION.
- 21. EXPOSED CONDUITS SHALL BE PAINTED TO MATCH THE SURFACES ADJACENT TO INSTALLATION. REFER TO PAINTING AND COATING SECTION OF
- 22. VERIFY ALL DIMENSIONS AND CLEARANCES WITH ARCHITECT AND OWNER.
- 23. SEAL ALL WALL PENETRATIONS WITH AN APPROVED CAULK COMPOUND EQUAL TO 3M FIRE BARRIER CAULK.
- 24. COORDINATE PHASING OF WORK WITH ARCHITECTURAL DRAWINGS AND OTHER TRADES / DISCIPLINES FOR ELECTRICAL INSTALLATIONS. 25. NOTIFY THE ENGINEER IMMEDIATELY OF ANY PLAN DISCREPANCIES PRIOR TO PROCEEDING WITH ROUGH-IN OR TRIM OUT.

BASIC ELECTRICAL MATERIALS, BOXES, CONDUIT, WIRING, AND GROUNDING

- 1. BOXES INSTALLED IN CONCEALED WORK SHALL BE GALVANIZED STEEL, PRESSED, OR WELDED TYPE, WITH KNOCKOUTS
- 2. BOXES SHALL BE 4-INCH OCTAGON, 4-INCH SQUARE, 2-1/8 INCHES DEEP OR LARGER, DEPENDING UPON NUMBER OF CONDUCTORS OR CONDUITS THEREIN, UNLESS NOTED OTHERWISE. PLASTER OR TILE RINGS SHALL BE FURNISHED FOR SUITABLE MOUNTING OF LIGHT FIXTURE. PROVIDE SUITABLE
- 3. JUNCTION AND PULL BOXES, IN ADDITION TO THOSE INDICATED, SHALL ONLY BE USED IN COMPLIANCE WITH CODES, RECOGNIZED STANDARDS, AND CONTRACT DOCUMENTS. PROVIDE NEMA 3R WHERE INSTALLED OUTDOORS OR SUBJECT TO MOISTURE. PROVIDE POLYMER CONCRETE PULL BOXES AS NOTED WHERE INSTALLED AT GRADE LEVEL. PROVIDE SUITABLE COVERS FOR ALL BOXES.
- 4. ALL CONDUIT IN SLAB AND UNDERGROUND TO BE PVC SCH. 40. 5. ALL INTERIOR CONDUITS CONCEALED IN WALLS, ABOVE CEILINGS, OR IN EXPOSED STRUCTURE SHALL BE EMT WITH COMPRESSION FITTINGS FOR CONDUITS 1" AND SMALLER, CONDUITS 1-1/4" AND ABOVE SHALL HAVE STEEL SET-SCREW FITTINGS. METAL-CLAD (MC) CABLE MAY ONLY BE USED FOR FLEX CONNECTIONS TO LIGHT FIXTURES WHERE INSTALLED ABOVE LAY-IN ACOUSTICAL CEILINGS OR WHERE INSTALLED CONCEALED WITHIN BUILDING PURLING AT ROOF
- 6. ALL EXPOSED CONDUITS SHALL BE GALVANIZED RIGID TO 10 FEET ABOVE FINISHED FLOOR WHEN INSTALLED IN AREAS SUSCEPTIBLE TO DAMAGE.
- 7. ALL CONDUITS SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE. DO NOT INSTALL CONDUITS AT "ANGLED" / "STRAIGHT-RUNS" BETWEEN BOXES.
- 8. FEEDER CONDUITS SHALL BE PVC BELOW GRADE, GRC ELBOWS AND RISERS UP TO PANELS FROM BELOW GRADE, OR EMT WHERE INSTALLED OVERHEAD AND COMPLETELY INDOORS, UNLESS NOTED OTHERWISE.
- 10. ALL WIRING SHALL BE #12 AWG MINIMUM, THHN/THWN, UNLESS NOTED OTHERWISE.

ALL WIRING SHALL BE COPPER.

- 11. ALL WIRING SHALL BE CONDUCTOR TYPE THHN OR THWN INSULATED WITH POLYVINYL CHLORIDE AND COVERED WITH A PROTECTIVE SHEATH OF NYLON, RATED AT 600 VOLTS. WIRES SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) FOR INSTALLATION IN ACCORDANCE WITH ARTICLE 310 OF THE NATIONAL ELECTRICAL CODE (NEC). CONDUCTORS MAY BE SOLID OR STRANDED COPPER FOR 12 AWG AND SMALLER CONDUCTORS, AND STRANDED COPPER FOR 10 AWG AND LARGER CONDUCTORS, CONDUCTORS SHALL BE INSULATED WITH PVC AND SHEATHED WITH NYLON.
- 12. GROUNDING SHALL BE INSTALLED PER NEC SECTION 250. 13. METALLIC OBJECTS ON THE PROJECT SITE THAT ENCLOSE ELECTRICAL CONDUCTORS, OR THAT ARE LIKELY TO BE ENERGIZED BY ELECTRICAL
- CURRENTS, SHALL BE EFFECTIVELY GROUNDED. 14. METAL EQUIPMENT PARTS, SUCH AS ENCLOSURES, RACEWAYS, AND EQUIPMENT GROUNDING CONDUCTORS, AND EARTH GROUNDING ELECTRODES SHALL
- BE SOLIDLY JOINED TOGETHER INTO A CONTINUOUS ELECTRICALLY CONDUCTIVE SYSTEM.
- 15. METALLIC SYSTEMS SHALL BE EFFECTIVELY BONDED TO THE MAIN GROUNDING ELECTRODE SYSTEM. 16. ELECTRICAL CONTINUITY TO GROUND METAL RACEWAYS AND ENCLOSURES, ISOLATED FROM EQUIPMENT GROUND BY INSTALLATION OF NON-METALLIC CONDUIT OR FITTINGS, SHALL BE PROVIDED BY A GREEN INSULATED GROUNDING CONDUCTOR OF REQUIRED SIZE WITHIN EACH RACEWAY CONNECTED
- GREEN INSULATED GROUNDING CONDUCTOR OF REQUIRED SIZE. 17. COLD WATER, OR OTHER UTILITY PIPING SYSTEMS, SHALL NOT BE UTILIZED AS GROUNDING ELECTRODES DUE TO THE INSTALLATION OF INSULATING

TO ISOLATED METALLIC RACEWAYS, OR ENCLOSURES AT EACH END. EACH FLEXIBLE CONDUIT OVER 6 FEET IN LENGTH SHALL BE PROVIDED WITH A

- COUPLINGS AND NON-METALLIC PIPE IN SUCH INSTALLATIONS. 18. NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT, PANELS, EQUIPMENT CABINETS, AND METAL FRAMES OF BUILDINGS SHALL BE
- PERMANENTLY AND EFFECTIVELY GROUNDED. PROVIDE A NEC SIZED GROUNDING CONDUCTOR IN EVERY RACEWAY 19. NEUTRAL OF SERVICE CONDUCTORS SHALL BE GROUNDED AS FOLLOWS: NEUTRAL SHALL BE GROUNDED AT THE SERVICE PANELBOARD. OR MAIN SWITCH, EQUIPMENT AND CONDUIT GROUNDING CONDUCTORS SHALL BE BONDED TO THAT GROUNDING POINT, FEEDER NEUTRALS SHALL BE BONDED
- AT SERVICE ENTRANCE POINT ONLY, NEUTRALS OF SEPARATELY DERIVED SYSTEMS SHALL BE BONDED AT THE SOURCE ONLY. 20. WITHIN EVERY BUILDING, THE MAIN PANELBOARD, SHALL BE BONDED TO THE COLD WATER LINE. METALLIC PIPING SYSTEMS SUCH AS GAS, FIRE SPRINKLER, OR OTHER SYSTEMS SHALL BE BONDED TO THE COLD WATER LINE.
- 21. GROUNDING ELECTRODES SHALL BE COPPER-CLAD STEEL GROUND RODS, MINIMUM 3/4 INCH DIAMETER BY 10 FEET LONG. INSTALL ADDITIONAL
- ELECTRODES WHERE GROUND REMAINS HIGHER THAN 25 OHMS. INSTALL GROUNDING ELECTRODES AS NOTED ON DRAWINGS. 22. GROUNDING CONDUCTORS SHALL BE COPPER, #12 MINIMUM WITH GREEN INSULATION, UNLESS NOTED OTHERWISE.
- 23. GROUND TAILS SHALL BE COPPER, #12 MINIMUM WITH GREEN INSULATION, INSTALLED IN ALL METALLIC JUNCTION BOXES WHERE DEVICES ARE BEING INSTALLED. BRANCH CIRCUIT GROUND, JUNCTION BOX, AND DEVICES SHALL BE BONDED AT EACH JUNCTION BOX.

WIRING DEVICES

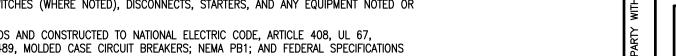
- 1. RECEPTACLES SHALL COMPLY WITH NEMA WD 1, NEMA WD 6, AND UL 498.
- 2. SWITCHES SHALL COMPLY WITH NEMA WD 1 AND UL 20.
- 3. DUPLEX RECEPTACLES SHALL BE HEAVY-DUTY SPECIFICATION GRADE, GROUNDING TYPE, TERMINAL SCREWS SHALL BE BACK AND SIDE WIRED WITH INTERNAL SCREW PRESSURE PLATES. MOUNTING STRAP SHALL FEATURE HEAVY-DUTY BRASS CONSTRUCTION. RECEPTACLE BACK BODY SHALL BE PVC. RECEPTACLE FACE SHALL BE IMPACT RESISTANT NYLON. RECEPTACLES SHALL HAVE TRIPLE WIPE BRASS POWER CONTACTS.
- 4. PROVIDE SPECIFICATION GRADE GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLES IN ACCORDANCE WITH UL STANDARDS. GFCI RECEPTACLES SHALL HAVE A TRIP INDICATION LIGHT. RECEPTACLE TERMINAL SCREWS SHALL BE BACK AND SIDE WIRE WITH INTERNAL SCREW PRESSURE PLATES. TEST AND RESET BUTTONS SHALL MATCH DEVICE BODY IN COLOR, GFCI RECEPTACLES SHALL BE MANUFACTURED IN STANDARD CONFIGURATION FOR INSTALLATION WITH STAINLESS STEEL SMOOTH PLATES. EXTERIOR MOUNTED RECEPTACLES SHALL BE MOUNTED INSIDE WEATHERPROOF ENCLOSURE
- 5. FOR EQUIPMENT RECEPTACLES, PROVIDE 2-WIRE OR 3-WIRE, GROUNDING TYPE, RATED 30 OR 50 AMPS AT 125/250 VOLTS, NEMA RATING AS NOTED ON DRAWINGS OR AS REQUIRED FOR EQUIPMENT, WITH 2-GANG STAINLESS STEEL PLATES.
- 6. PROVIDE LOCAL SWITCHES, HIGH STRENGTH THERMOPLASTIC TOGGLE, SPECIFICATION GRADE, RATED 20 AMPS AT 120-277 VOLTS AC ONLY, WITH PLASTER EARS, EXTERNAL SCREW PRESSURE PLATE BACK AND SIDE WIRED, AND STANDARD SIZE COMPOSITION CUPS WHICH FULLY ENCLOSE MECHANISM. SWITCHES SHALL BE APPROVED FOR INSTALLATION AT CURRENTS UP TO FULL RATING ON RESISTIVE, INDUCTIVE, TUNGSTEN FILAMENT LAMP AND FLUORESCENT LAMP LOADS. AND FOR UP TO 80 PERCENT OF RATING FOR MOTOR LOADS. SWITCHES SHALL HAVE OVERSIZED SILVER ALLOY CONTACTS FOR LONG LIFE AND BETTER HEAT DISSIPATION. PROVIDE SWITCHES AS SINGLE POLE, DOUBLE POLE, 3-WAY, 4-WAY, NON-LOCK
- 7. WHERE NOTED, PROVIDE OCCUPANCY SENSOR SWITCHES (CEILING OR WALL MOUNT). SWITCHES SHALL BE DUAL TECHNOLOGY WITH INPUT VOLTAGE
- AND LOAD CHARACTERISTICS SUITABLE FOR LOADS BEING SERVED. 8. PROVIDE STAINLESS STEEL FACEPLATE ON ALL DEVICES.
- 9. WHERE DEVICES ARE TO BE INSTALLED AT MILLWORK OR ABOVE COUNTERS, COORDINATE WITH ARCHITECT FOR DEVICE HEIGHTS AND LOCATIONS PRIOR TO ROUGH-IN. INSTALL OUTLETS TO BE IN KNEE SPACE AREA OR IN AREA THAT WILL BE ACCESSIBLE AFTER MILLWORK IS COMPLETED.

PANELBOARDS AND SAFETY SWITCHES

- 1. PROVIDE ENGRAVED NAMEPLATE LABEL FOR ALL PANELBOARDS, SWITCHES (WHERE NOTED), DISCONNECTS, STARTERS, AND ANY EQUIPMENT NOTED OR REQUIRING NAMEPLATE IDENTIFICATION.
- 2. ALL ELECTRICAL PANELS SHALL BE COPPER BUSSING, PANELBOARDS AND CONSTRUCTED TO NATIONAL ELECTRIC CODE, ARTICLE 408, UL 67, PANELBOARDS; UL 50, CABINETS AND BOXES; UL 943, GFCI; UL 489, MOLDED CASE CIRCUIT BREAKERS; NEMA PB1; AND FEDERAL SPECIFICATIONS W-P-115C AND WC-375B. LOAD CENTERS NOT ALLOWED UNLESS NOTED OTHERWISE.
- 3. PANELBOARDS SHALL BE WALL-MOUNTED, ENCLOSED SAFETY TYPE WITH 120/240 VOLT, 3-WIRE SOLID NEUTRAL MAINS AS INDICATED ON DRAWINGS OR SPECIFIED. FIRST PANELBOARD OF EACH BUILDING SHALL BE PROVIDED WITH MAIN OR SUB-FEEDER CIRCUIT BREAKERS WHERE INDICATED.
- PROVIDE NEMA 3R PANEL ENCLOSURES WHERE INSTALLED OUTDOORS OR WHERE SUBJECT TO MOISTURE OR WHERE NOTED ON DRAWINGS. 4. SURGE SUPPRESSORS SHALL BE INSTALLED WHERE INDICATED ON DRAWINGS, PROVIDE TRANSIENT VOLTAGE SURGE SUPPRESSORS AS SEPARATELY INSTALLED OF PANELBOARDS. PANELBOARDS SHALL BE COMPLETE WITH FULLY RATED COPPER NEUTRAL BUS, GROUND BUS AND ISOLATED GROUND BUS. SURGE SUPPRESSORS SHALL BE AS FOLLOWS: SURGE CAPACITY: SERVICE ENTRANCE SPDS SHALL BE ANSI/UL LISTED TYPE 1 SPD WITH A WITH A 80 KA SURGE RATING PER MODE. SURGE SUPPRESSION UNITS SHALL MEET UL 1449 3RD EDITION SUPPRESSED VOLTAGE RATING. MOVS SHALL BE THERMALLY PROTECTED FOR LOW CURRENT FAULTS AND SHALL BE FUSED WITH SURGE—RATED FUSES. THE SURGE—RATED SURGE
- 5. SINGLE POLE BRANCHES SHALL BE MOLDED CASE, THERMAL MAGNETIC CIRCUIT BREAKERS WITH INVERSE TIME DELAY, TRIP FREE, QUICK-MAKE, QUICK-BREAK MECHANISM AND SILVER ALLOY CONTACTS. CIRCUIT BREAKERS SHALL BE FULLY RATED, WITH AMPERE RATING MARKED ON HANDLE AND SHALL INDICATE ON/OFF AND TRIPPED POSITIONS. GROUND FAULT INTERRUPTERS SHALL BE INCORPORATED INTO CIRCUIT BREAKERS WHERE INDICATED. THEY SHALL BE LISTED BY UL, OR OTHER NRTL AS GROUND FAULT DEVICES. PROVIDE APPROPRIATE LUG KIT OF SUFFICIENT SIZE TO
- 6. TWO-POLE BRANCHES SHALL BE ENCLOSED, AND SHALL BE THERMAL MAGNETIC CIRCUIT BREAKERS WITH INVERSE TIME DELAY, TAMPER-PROOF, AMBIENT COMPENSATED, SINGLE HANDLE, INTERNAL COMMON TRIP, AND QUICK-MAKE, QUICK-BREAK MECHANISM WITH SILVER ALLOY CONTACTS.
- 7. MAIN AND SUBFEEDER CIRCUIT BREAKERS SHALL BE ENCLOSED, THERMAL MAGNETIC TYPE WITH INVERSE TIME DELAY, SINGLE HANDLE COMMON TRIP, QUICK-MAKE, QUICK-BREAK MECHANISM, CORROSION-RESISTANT BEARINGS AND SILVER ALLOY CONTACTS. AMPERE FRAME SIZE AND TRIP RATING SHALL BE AS INDICATED ON DRAWINGS. VOLTAGE RATING SHALL BE AS INDICATED ON DRAWINGS. BRANCH MOUNTED MAINS ARE NOT ACCEPTABLE.
- 8. CIRCUIT BREAKERS SHALL BE FULLY RATED AND OF ONE-PIECE, BOLT-ON TYPE AND SHALL MEET SHORT-CIRCUIT INTERRUPTING CAPACITY
- 9. INTERNAL PHASE AND GROUND BUSS SHALL BE COPPER.
- 10. PROVIDE A NEATLY TYPEWRITTEN PANELBOARD SCHEDULE WITH NUMBER OR NAME OF ROOM OR AREA, OR LOAD SERVED BY EACH PANELBOARD CIRCUIT. SCHEDULE SHALL ALSO INDICATE PANEL DESIGNATION, VOLTAGE AND PHASE, BUILDING AND DISTRIBUTION PANEL OR SWITCHBOARD FROM WHICH IT IS FED. SCHEDULE SHALL BE INSTALLED IN A FRAME UNDER TRANSPARENT PLASTIC ON INSIDE OF EACH PANELBOARD DOOR.
- 11. ALL ELECTRICAL DISCONNECTS SHALL BE HEAVY DUTY AND RATED FOR VOLTAGE AND AMPACITY OF EQUIPMENT BEING SERVED, UNLESS NOTED OTHERWISE. PROVIDE FUSES BASED ON EQUIPMENT RATINGS WHERE NOTED. PROVIDE NEMA 3R ENCLOSURES WHERE INSTALLED OUTDOORS OR
- 12. INSTALL ALL ELECTRICAL EQUIPMENT WITH CODE REQUIRED CLEARANCES.

- 1. LIGHT FIXTURES MODEL NUMBERS WERE DETERMINED AT THE TIME THIS SPECIFICATION WAS WRITTEN; MODEL NUMBERS MAY NEED TO BE MODIFIED, OR MAY REQUIRE THE ADDITION OR DELETION OF OPTIONS TO FULLY MEET SPECIFICATION REQUIREMENTS.
- 2. DESIGN OF LIGHTING FIXTURES, ACCESSORIES, SUPPORTS, AND METHOD OF FIXTURE INSTALLATION SHALL COMPLY WITH REQUIREMENTS OF CEILING
- 3. PROVIDE SUSPENSION POINTS AT NO MORE THAN 2 FEET FROM FIXTURE ENDS. SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 8 FEET.
- 4. PROVIDE ALL NECESSARY COMPONENTS TO INSTALL FIXTURES IN CEILING TYPES BEING INSTALLED. SURFACE MOUNT FIXTURES SHALL BE ATTACHED
- 5. COMPONENTS AND FIXTURES SHALL BE LISTED AND APPROVED FOR THE INTENDED APPLICATION BY UNDERWRITER'S LABORATORIES (UL), OR OTHER
- NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL).
- 7. FIXTURES SHALL BE OF THE TYPES AND MANUFACTURERS DESCRIBED IN THE LUMINAIRE SCHEDULE OF THE DRAWINGS, WITH LAMPS, WATTAGE AND
- 8. ALL FIXTURE SHALL BE HIGH EFFICIENCY, HAVE SUITABLE BALLASTS OR DRIVERS TO MATCH LAMP TYPES, AND BE RATED FOR VOLTAGE BEING
- 10. WHERE EMERGENCY BATTERY PACKS ARE INSTALLED, PROVIDE CONSTANT HOT FOR EMERGENCY FIXTURES. UNLESS NOTED OTHERWISE, WHEN
- POWERING UNIT INVERTER POWER PACKS, USE THE SAME CIRCUIT THAT POWERS THE SWITCHED BALLAST TO POWER THE INVERTER. 11. WHERE EMERGENCY BALLAST(S) ARE SPECIFIED WITHIN THE FIXTURE, PROVIDE CONSTANT HOT FOR THE BALLAST(S). NONEMERGENCY BALLASTS
- 12. CHECK AND ADJUST FIXTURES FOR REQUIRED ILLUMINATION. REPLACE DEFECTIVE LAMPS AND BALLASTS. TEST AND ADJUST LIGHTING CONTROL

- COMMUNICATIONS 1. COMMUNICATIONS DEVICES AND SYSTEMS SHALL BE ROUGH-IN ONLY, WITH 4" SQUARE DEEP BOX WITH APPROPRIATE EXTENSION RING. STUB (1)
- 3/4" MINIMUM CONDUIT FOR DATA/TEL DEVICES TO ABOVE CEILING UNLESS NOTED OTHERWISE.
- 2. ALL COMMUNICATIONS CONDUITS SHALL BE TERMINATED WITH PLASTIC BUSHING ON ENDS OF CONDUITS. PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS.
- 4. INSTALL CONDUITS BELOW GRADE AS NOTED ON PLANS FROM EDGE OF BUILDING TO THE TELECOM BACKBOARD. STUB UP AT BASE OF BACKBOARD, UNLESS NOTED OTHERWISE ON PROJECT DETAILS.
- 5. PROVIDE AND INSTALL GROUNDING BUSHING WITH GROUND WIRE AS NOTED BACK TO SERVICE ENTRANCE GROUND.



160 KA SURGE RATING PER MODE, WITH FIELD REPLACEABLE SURGE MODULES. DISTRIBUTION OR BRANCH PANELS SHALL BE UL LISTED TYPE 1 SPD CURRENT PASSES AND CLEARS THE CIRCUIT SAFELY IF THE SURGE CAPACITY IS EXCEEDED. ENHANCED DIAGNOSTICS SHALL CONTINUOUSLY MONITOR THE UNIT'S STATUS AND SHALL INCLUDE LEDS TO SIGNAL A REDUCTION IN SURGE CAPACITY OR THE LOSS OF A SUPPRESSION CIRCUIT. AN AUDIBLE ALARM, WITH TEST AND SILENCE FEATURES, SHALL BE FURNISHED IN DIAGNOSTIC PACKAGE.

ACCOMMODATE THE FEEDERS.

CIRCUIT BREAKERS SHALL BE FULLY RATED OR AS OTHERWISE INDICATED ON THE DRAWINGS.

REQUIREMENTS INDICATED ON DRAWINGS.

WHERE SUBJECT TO MOISTURE OR WHERE NOTED ON DRAWINGS.

TYPE WHICH FIXTURE IS INSTALLED.

O STRUCTURE. TOGGLE BOLTS ARE NOT PERMITTED. PROVIDE BACKING WHERE REQUIRED

6. LIGHTING FIXTURES SHALL BE THE TYPE INDICATED ON DRAWINGS AND AS SPECIFIED. FIXTURES OF SAME TYPE SHALL BE OF ONE MANUFACTURER.

VOLTAGE AS INDICATED OR APPROVED EQUAL. SUBMIT TO ENGINEER FOR ANY SUBSTITUTION APPROVALS PRIOR TO PURCHASE AND INSTALLATION.

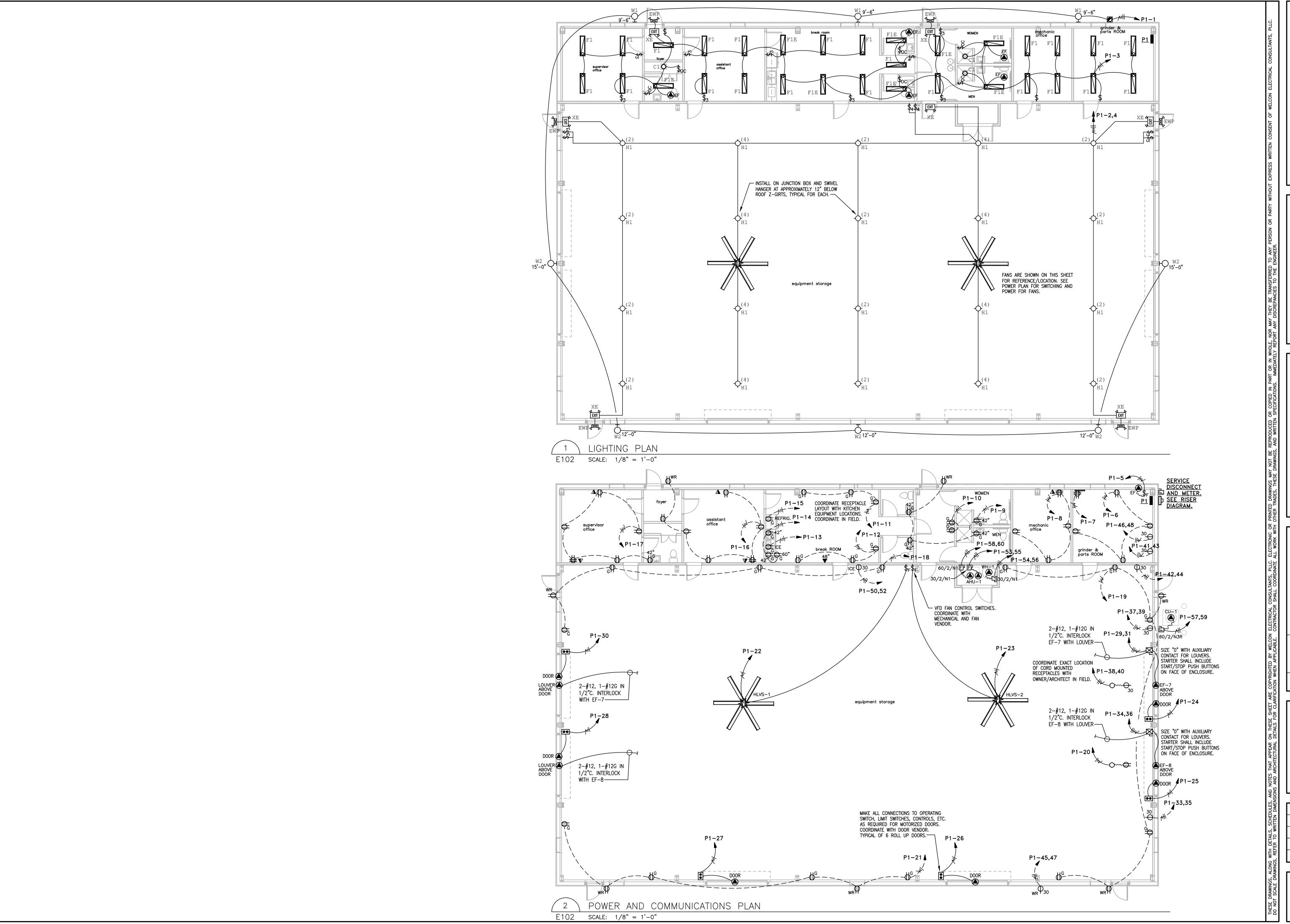
9. ALL LAMPS SHALL BE AS NOTED ON DRAWINGS. PROVIDE LAMPS FOR ALL FIXTURES AS NOTED.

WITHIN THE SAME FIXTURE SHALL BE SWITCHED AS INDICATED, UNLESS NOTED OTHERWISE. FOUIPMENT FOR PROPER OPERATION.

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Project No. 23-SM-03 06/27/2023 Date Drawn By Checked By GPW Scale AS SHOWN

Drawing No. 2 of 3 Sheets



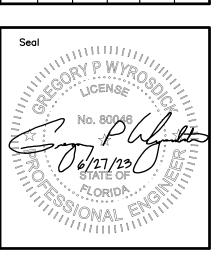


EAGLE SPRINGS GOLF COURSE MAINT. BUILDING WALTON COUNTY, FLORIDA

Sheet Title

ELECTRICAL PLANS

No. Date Revision



Project No.	23-SM-03				
Date	06/27/2023				
Drawn By	WH				
hecked By	GPW				
Scale	AS SHOWN				