

INTERIOR LUMINAIRE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLTS	LAMP TYPE	FIXTURE VA	LUMENS	MOUNT	LOCATION	NOTES	TAG
L1	2X2 LED TROFFER	LITHONIA	BLC-2X2-3300LM-80CRI-40K-ADSM-MIN10-MVOLT	MVOLT	LED	30	3382	Recessed	Elec. Room	1	L1
L2	2X4 LED TROFFER	LITHONIA	BLC-2X4-4000LM-80CRI-40K-ADSM-MIN10-MVOLT	MVOLT	LED	32	4098	Recessed	Retail Area	1	L2
L3	8' STRIP LED	LITHONIA	CDS-L96-MVOLT-DM-40K-80CRI-VH	MVOLT	LED	73	8937	Surf.	Work Room	1	L3
R1	6" DOWNLIGHT	LITHONIA	LBRS-15LM-40K-WR-TRW-LSS	MVOLT	LED	19	2059	Recessed	Restroom	1	R1
EM	EMERGENCY LIGHTING	TLS	SLEL	MVOLT	LED	4	220	WALL	Throughout	1	EM

GENERAL NOTES

"P" SUFFIX ON A FIXTURE TAG REQUIRES A PLASTER FLANGE  
"S" SUFFIX ON A FIXTURE TAG REQUIRES A SURFACE MOUNT KIT  
"E" SUFFIX ON A FIXTURE TAG REQUIRES AN EMERGENCY BATTERY  
QTY SHOWN IN SCHEDULE IS FOR ENERGY CALCULATIONS ONLY, VERIFY FINAL QUANTITY PER CONTRACT DRAWINGS.  
1 REUSE EXISTING LIGHTING, IF NOT ABLE TO REUSE, REPLACE WITH SELECTION PROVIDED

ELECTRICAL NOTES

- CONTRACTOR SHALL BECOME FAMILIAR WITH CURRENT LAYOUT PRIOR TO COMMENCING WORK
- CONTRACTOR TO RE-USE EXISTING EQUIPMENT AS ABLE
- WHERE RECEPTACLES ARE FOUND TO REQUIRE REPLACEMENT, TAMPER PROOF RECEPTACLES SHALL BE USED
- WHERE RECEPTACLES ARE REQUIRED TO BE GFI PROTECTED, RECEPTACLES SHALL BE REPLACED WITH GFI UNITS
- CONTRACTOR SHALL INSPECT AND TEST RE-USED CIRCUITS FOR CONTINUITY
- INSPECT AND REUSE EXISTING LIGHTING CONTRACTOR FOR CONTROLS
- WHERE CIRCUITS ARE FOUND TO BE DAMAGED, THEY SHALL BE REPLACED WITH REQUIRED CODE COMPLIANT EQUIVALENTS
- CIRCUITS NOT USED SHALL BE REMOVED BACK TO THE PANEL
- REUSE EMERGENCY EGRESS LIGHTING IF ABLE, REPLACE WITH "EM" TYPE FIXTURE PROVIDED ON LUMINAIRE SCHEDULE

REPLACED STANDARD FLUORESCENT FIXTURES AND CONV. RECEPTACLES

80 WATTS (FLUORESCENT 8')	X 8	(QTY) :	640 WATTS
60 WATTS (FLUORESCENT BULB)	X 1	(QTY) :	60 WATTS
60 WATTS (FLUORESCENT 4')	X 38	(QTY) :	2280 WATTS
180 WATTS (RECEPTACLES)	X 8	(QTY) :	1440 WATTS

30 WATTS (2X2 LED TROFFER)	X 1	(QTY) :	30 WATTS
32 WATTS (2X4 LED TROFFER)	X 19	(QTY) :	608 WATTS
73 WATTS (8' LED STRIP LIGHT)	X 4	(QTY) :	292 WATTS
19 WATTS (6" DOWNLIGHT)	X 1	(QTY) :	19 WATTS
180 WATTS (RECEPTACLES)	X 2	(QTY) :	360 WATTS
600 WATTS (WATER COOLER)	X 1	(QTY) :	600 WATTS

2511 WATTS (REDUCTION)



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CODE COMPLIANCE  
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ELECTRICAL LEGEND

- CEILING OR WALL MOUNTED JUNCTION BOX. UON SIZE AS REQUIRED BY NEC.
- FLOOR MOUNTED JUNCTION BOX. UON SIZE AS REQUIRED BY NEC.
- MOTOR. AS INDICATED.
- MISCELLANEOUS PANELBOARD. AS INDICATED.
- HEAVY DUTY DISCONNECT SWITCH, NON FUSIBLE. SEE SPECIFICATIONS. UON MOUNT TOP OF ENCLOSURE 66" AFF
- SINGLE RECEPTACLE. 20A 120V UON CENTERLINE MOUNTED 18" AFF
- DUPLEX RECEPTACLE. 20A 120V UON CENTERLINE MOUNTED 18" AFF
- DUPLEX RECEPTACLE. 20A 120V UON CENTERLINE MOUNTED 42" AFF
- 50A 1Ø 240V RECEPTACLE. UON CENTERLINE MOUNTED 18" AFF
- DOUBLE DUPLEX RECEPTACLE OUTLET. 20A 120V UON CENTERLINE MOUNTED 18" AFF.
- DOUBLE DUPLEX RECEPTACLE OUTLET. 20A 120V UON CENTERLINE MOUNTED 42" AFF.
- CEILING MOUNTED POWER PACK FOR RECEPTACLES. SEE SPECIFICATIONS
- CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR. SEE SPECIFICATIONS
- MOTOR STARTING SWITCH - UON CENTERLINE MOUNTED 48" AFF
- WALL MOUNTED DATA COMMUNICATION OUTLET. UON CENTERLINE MOUNTED 18" AFF
- CEILING MTD. 2'x4' LIGHT FIXTURE (SEE SCHEDULE)
- LED STRIP (SEE SCHEDULE)
- EXIT SIGN. SINGLE OR DOUBLE FACE (SEE SCHEDULE)
- EMERGENCY LIGHTING FIXTURE WITH BATTERY BACK-UP (SEE SCHEDULE)
- SINGLE POLE SWITCH 20A 120/277V UON CENTERLINE MOUNTED 48" AFF  
K: KEY TYPE M: MOTOR RATED
- THREE WAY 20A 120/277V SWITCH - UON CENTERLINE MOUNTED 48" AFF
- FOUR WAY WALL MOUNTED SWITCH - UON CENTERLINE MOUNTED 48" AFF
- DIMMER SWITCH - UON CENTERLINE MOUNTED 48" AFF
- TIME SWITCH AS INDICATED. UON MOUNT TOP OF ENCLOSURE 66" AFF
- CEILING MOUNTED OCCUPANCY SENSOR. SEE SPECIFICATIONS

APPLICABLE CODES

2020 FLORIDA BUILDING CODE 7TH EDITION  
FLORIDA FIRE PREVENTION CODE 7TH EDITION WITH NFPA 1 AND 101 AMENDMENTS  
NFPA 70, 2017 NATIONAL ELECTRICAL CODE  
NFPA 72, 2016 FIRE ALARM & SIGNALING  
NFPA 101, 2018 LIFE SAFETY CODE, FL EDITION

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ELECTRIC NOTES

- CONTRACTOR SHALL BE QUALIFIED TO PERFORM THE WORK SPECIFIED HEREIN AND SHALL BE REGISTERED OR LICENSED IN ACCORDANCE WITH THE LOCAL JURISDICTION REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE FOR AND ACQUIRE ALL NECESSARY PERMIT(S) AND INSPECTIONS AS MAY BE REQUIRED BY THE AUTHORITY(IES) HAVING JURISDICTION.
- INSTALLATION SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE APPLICABLE CODES IN FORCE OR ADOPTED BY THE AUTHORITIES HAVING JURISDICTION.
- NO CHANGE ORDERS - THE CONTRACTOR SHALL FURNISH ALL MATERIALS AND LABOR NECESSARY FOR THE INSTALLATION OF A COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEM MEETING THE INTENDED PURPOSE OF THE PROJECT.
- THE CONTRACTOR SHALL MAKE A THOROUGH EXAMINATION OF THE SITE CONDITIONS AND CONTRACT DOCUMENTS.
- PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITIES FOR METERING, TRANSFORMER AND SERVICE CONNECTION REQUIREMENTS.
- CONDUIT SHALL BE INSTALLED CONCEALED OR RECESSED IN A NEAT AND WORKMANLIKE MANNER. ALL CONDUIT SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING LINES UNLESS OTHERWISE APPROVED BY OWNER. EXPOSED CONDUIT ON EXTERIOR WALLS OF FINISHED WALLS IS PROHIBITED UNLESS OTHERWISE REVIEWED AND APPROVED BY OWNER.
- CONDUIT SHALL BE EMT AND FITTINGS SHALL BE STEEL. FOR UNDERGROUND AND UNDER SLAB INSTALLATIONS, CONDUIT SHALL BE PVC OR IMC W/AN ASPHALTIC OR OTHER APPROVED CORROSION INHIBITING COATING.
- TO LIMIT WATER INTRUSION, SEAL ALL CONDUITS WHERE THE CONDUIT CONNECTS AN INTERIOR CONDUIT BODY TO AN EXTERIOR CONDUIT BODY OR LUMINAIRE.
- PROVIDE AN INDEPENDENT MEANS OF SUPPORT FOR CONDUIT INSTALLED ABOVE A CEILING WHERE THEY ARE DISTINGUISHABLE BY COLOR, TAGGING OR OTHER EFFECTIVE MEANS. THE CEILING SUPPORT SYSTEM SHALL BE PERMITTED TO SUPPORT BRANCH CIRCUIT WIRING WHERE INSTALLED IN ACCORDANCE WITH THE CEILING MANUFACTURER'S INSTRUCTIONS.
- PROVIDE AN INSULATED THROAT FITTING OR PLASTIC BUSHING FOR ALL 1" AND LARGER CONDUIT TERMINATIONS IN PANEL BOARDS, LOAD CENTERS, WIREWAYS AND DISCONNECT SWITCHES.
- PROVIDE GROUNDING BUSHINGS FOR ANY CONDUIT TERMINATIONS AT ECCENTRIC AND CONCENTRIC KNOCKOUTS IN DISCONNECTS, PANELBOARDS AND LOAD CENTERS OR WHEN REDUCING WASHERS ARE USED. BOND ALL JUNCTION AND PULL BOXES TO GROUND.
- WIRE/CABLES SHALL BE COPPER OR ALUMINUM AS ALLOWED BY CODE AND LISTED FOR THE INTENDED USE AND ENVIRONMENT. AMPACITIES ARE CALCULATED USING THE 75°C COLUMN.
- REFER TO BRANCH CIRCUIT SCHEDULE FOR MAXIMUM LENGTHS OF CONDUCTOR SIZE FOR HOMERUNS.
- ALL WIRING DEVICES SHALL BE TERMINATED AT THE SCREW IN A CLOCKWISE DIRECTION. THE PUSH-IN TERMINATIONS SHALL NOT BE USED.
- VERIFY DOOR SWINGS AND BACKSPLASH HEIGHTS AT ROUGH IN.
- STAGGER WALL BOXES IN ALL WALLS BY AT LEAST ONE STUD FOR SOUND ATTENUATION. APPLY NECESSARY FIRE PROOFING OR SOUND INSULATION AS REQUIRED OR AS LISTED ON ARCHITECTURAL PLANS.
- PROVIDE TYPED PANEL DIRECTORY/SCHEDULES FOR ALL PANELS UPON COMPLETION OF THE PROJECT. ENSURE THAT THE DIRECTORY/SCHEDULES REFLECT THE AS-BUILT CONDITION AND ARE NOT COPIES OF PANEL DIRECTORY/SCHEDULES FROM PLANS OR EXISTING DIRECTORIES. PANEL DIRECTORY/SCHEDULES SHALL COMPLY WITH NEC 408.4. SHALL BE SPECIFIC TO LOCATION THAT EACH CIRCUIT BREAKER CONTROLS (NOT JUST RECEPTACLE OR LIGHTING).
- SUPPORT WIRES FOR ELECTRICAL EQUIPMENT SHALL BE FASTENED AT BOTH ENDS SO AS TO BE TAUT. INSTALLATION OF ELECTRICAL CABLES AND CONDUIT SHALL BE SUCH THAT UNDULATIONS ARE KEPT TO A MINIMUM.
- "TYPICAL" NOTES APPLY TO ALL SIMILAR SITUATIONS.
- PERMANENTLY LABEL ALL JUNCTION BOX COVERS WITH CIRCUITS DESIGNATION (SOURCE, PHASE, ETC.) CONTAINED WITHIN.
- AT CONCLUSION OF PROJECT, PROVIDE OPERATING, INSTALLATION INSTRUCTIONS, AND WARRANTY DOCUMENTS TO THE OWNER FOR ALL INSTALLED EQUIPMENT. OPERATING, INSTALLATION, AND WARRANTY DOCUMENTS SHALL BE BOUND TOGETHER WITH INDEX INDICATING WHERE TO FIND INFORMATION ON THE VARIOUS EQUIPMENT.
- PROVIDE THE APPROPRIATE FIRE STOP SYSTEM AND/OR FIRE CAULK AT ANY PENETRATION BETWEEN RATED ASSEMBLIES.
- CONDUIT TERMINATION AT NEMA3R ENCLOSURES SHALL BE WITH MYERS HUBS FOR TOP PENETRATIONS AND LIQUID TIGHT SEALING RINGS OR SEALING LOCKNUTS FOR SIDE PENETRATIONS.
- FOR ALL LED LUMINAIRES, PERMANENTLY MARK EACH FIXTURE WITH TAG #, MANUFACTURER, MODEL NUMBER, INSTALLATION DATE, INSTALLING CONTRACTOR AND LENGTH OF MANUFACTURER'S WARRANTY.
- COORDINATE INSTALLATION OF RECEPTACLES SHOWN ADJACENT TO MILLWORK WITH ARCHITECTURAL ELEVATIONS SO THEY ARE ACCESSIBLE. LOCATIONS SHOWN ON PLAN ARE DIAGRAMMATIC.
- INSTALL ELECTRICAL HARDWARE SUPPORTING ELECTRICAL FED AND OTHER EQUIPMENT IN ACCORDANCE WITH THE WEIGHT REQUIREMENTS OF THE EQUIPMENT, FIXTURE, APPLIANCE, ETC.
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- ALL CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS.

PHASE A	120/208V	277/480V
PHASE B	BLACK	BROWN
PHASE C	RED	ORANGE
	BLUE	YELLOW

DRAWING INDEX

- E-0 LEGEND, ABBREVIATIONS AND GENERAL NOTES
- E-1 ELECTRICAL DEMOLITION PLAN
- E-2 ELECTRICAL CONSTRUCTION PLANS

ABBREVIATIONS

A	AMPERE
AC	ABOVE COUNTER
AF	AMPERE FRAME
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AIC	AMPERAGE INTERRUPTING CAPACITY
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BOB	BOTTOM OF BOX
C	CONDUIT
CAT	CATEGORY
CB	CIRCUIT BREAKER
CH	CHILLER
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
COB	CENTER OF BOX
CU	COPPER
DEG	DEGREE
DS	DISCONNECT SWITCH
EG	EQUIPMENT GROUND BAR
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EMT	EMERGENCY
ENCL	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EW	ELECTRIC WATER HEATER
EX	EXISTING
FA	FIRE ALARM
FBO	FURNISHED BY OTHERS
FCP	FIRE ALARM CONTROL PANEL
FCC	FIRE CONTROL CENTER
FATC	FIRE ALARM TERMINAL CABINET
FO	FIBER OPTIC
GFIC	GROUND FAULT CIRCUIT INTERRUPTER
G	GROUND
HOA	HAND-OFF-AUTOMATIC
HACR	HEATING/AIR CONDITIONING RATED
HPF	HIGH POWER FACTOR
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
IG	ISOLATED GROUND
IPTV	INTERNET PROTOCOL TELEVISION
J, JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILLS
KVA	KILOVOLT AMPERER
KW	KILOWATT
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDU	A/V & WIFI CABINET
MDP	MAIN DISTRIBUTION PANEL
MLO	MAINT LUGS ONLY
MTO	MOUNTED
MTS	MANUAL TRANSFER SWITCH
MW	MICROWAVE
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUF. ASSOC.
NF	NON FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTE	NOT TO EXCEED
PB	PUSHBUTTON
PC	PHOTOCELL
Ø	PHASE
PGE	POWER OVER ETHERNET
PBJ	PROVIDE AND INSTALL
PNL	PANEL
POTS	PLAIN OLE TELEPHONE SYSTEM
PVC	POLY VINYL CHLORIDE
RCS	RIGID GALVANIZED STEEL
SCA	SHORT CIRCUIT AMPS
SG	SINGLE GANG
SPD	SURGE PROTECTIVE DEVICE
STP	SHIELDED TWISTED PAIR
STR	STRANDED
SW	SWITCH
SWBD	SWITCHBOARD
TC	TIME CLOCK
TOB	TOP OF BOX
TP	TWISTED PAIR
TR	TAMPER RESISTANT
TS	TIME SWITCH
TYP	TYPICAL
UC	UNDER COUNTER
UG	UNDERGROUND
UH	UNIT HEATER
UPS	UNINTERRUPTIBLE POWER SUPPLY
UON	UNLESS NOTED OTHERWISE
VAV	VARIABLE AIR VOLUME
V	VOLT
WP	WEATHERPROOF
WR	WEATHER RESISTANT
XFMR	TRANSFORMER
ZS	TWO GANG

DEVICES

- ALL DEVICES ARE WHITE W/PLASTIC COVERS UON.
- ALL SWITCHES & ABOVE COUNTER DEVICES ARE Ø 48" TOB
- ALL RECEPTACLES & DATA OUTLETS ARE Ø 20" TOB
- A DIFFERENT MOUNTING HEIGHT IS Ø TOB
- EXTERIOR RECEPTACLES ARE GFCI AND WEATHER RESISTANT.
- ALL RECEPTACLES SERVICING LOCATIONS ACCESSIBLE TO CHILDREN
- SHALL BE TAMPER RESISTANT.

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Project No. 21037

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Client:  
GREEN DRAGON  
905 SW Main Blvd, Suite 100  
Lake City, FL

Revisions  
No: Description: Date: 4/20/22

Seal:



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LUIS G. VARGAS JR., P.E.  
FL. Lic. No. 52139 Exp 02-28-2023

LEGENDS, ABBREVIATIONS  
AND GENERAL NOTES

E-0

PERMIT DOCUMENTS



INTERIOR LUMINAIRE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLTS	LAMP TYPE	FIXTURE VA	LUMENS	MOUNT	LOCATION	NOTES	TAG
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EM	EMERGENCY LIGHTING	TLS	SLEL	MVOLT	LED	4	220	WALL	Throughtout	1	EM

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3. CONTRACTOR SHALL INSPECT AND TEST RE-USE  
4. INSPECT AND REUSE EXISTING LIGHTING CONTACT  
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5. CIRCUITS NOT USED SHALL BE REMOVED BACK TO  
6. REUSE EMERGENCY EGRESS LIGHTING IF ABLE, R

REPLACED STANDARD FLUORESCENT FIXTURES AND CO

80 WATTS (FLUORESCENT 8')	X 8
60 WATTS (FLUORESCENT BULB)	X 1
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180 WATTS (RECEPTACLES)	X 8

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32 WATTS (2X4 LED TROFFER)	X 19
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600 WATTS (WATER COOLER)	X 1

ELECTRICAL LEGEND

- CEILING OR WALL MOUNTED JUNCTION BOX. UON SIZE AS REQUIRED BY NEC.  
FLOOR MOUNTED JUNCTION BOX. UON SIZE AS REQUIRED BY NEC.  
MOTOR. AS INDICATED.  
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HEAVY DUTY DISCONNECT SWITCH, NON FUSIBLE. SEE SPECIFICATIONS. UON MOUNT TOP OF ENCLOSURE 66" AFF  
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AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFI	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AIC	AMPERAGE INTERRUPTING CAPACITY
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE

This sheet was updated with requested reviewed plan changes. See Plan Sheet titled - Green Dragon - E0

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PHASE C	BLUE	YELLOW

STP	SHIELDED TWISTED PAIR
STR	STRANDED
SW	SWITCH
SWB	SWITCHBOARD
TC	TIME CLOCK
TOB	TOP OF BOX
TP	TWISTED PAIR
TR	TAMPER RESISTANT
TS	TIME SWITCH
TYP	TYPICAL
UC	UNDER COUNTER
UG	UNDERGROUND
UH	UNIT HEATER
UPS	UNINTERRUPTIBLE POWER SUPPLY
UON	UNLESS NOTED OTHERWISE
VAV	VARIABLE AIR VOLUME
V	VOLT
WP	WEATHERPROOF
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Luis Vargas

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LUIS G. VARGAS JR, P.E.  
FL. Lic. No. 52139 Exp 02-28-2023

LEGENDS, ABBREVIATIONS AND GENERAL NOTES

E-0

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Issue Dates  
03/01/22 PERMIT

Date:  
No: Description:

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**REVIEWED FOR  
CODE COMPLIANCE**  
UNIVERSAL ENGINEERING SCIENCES

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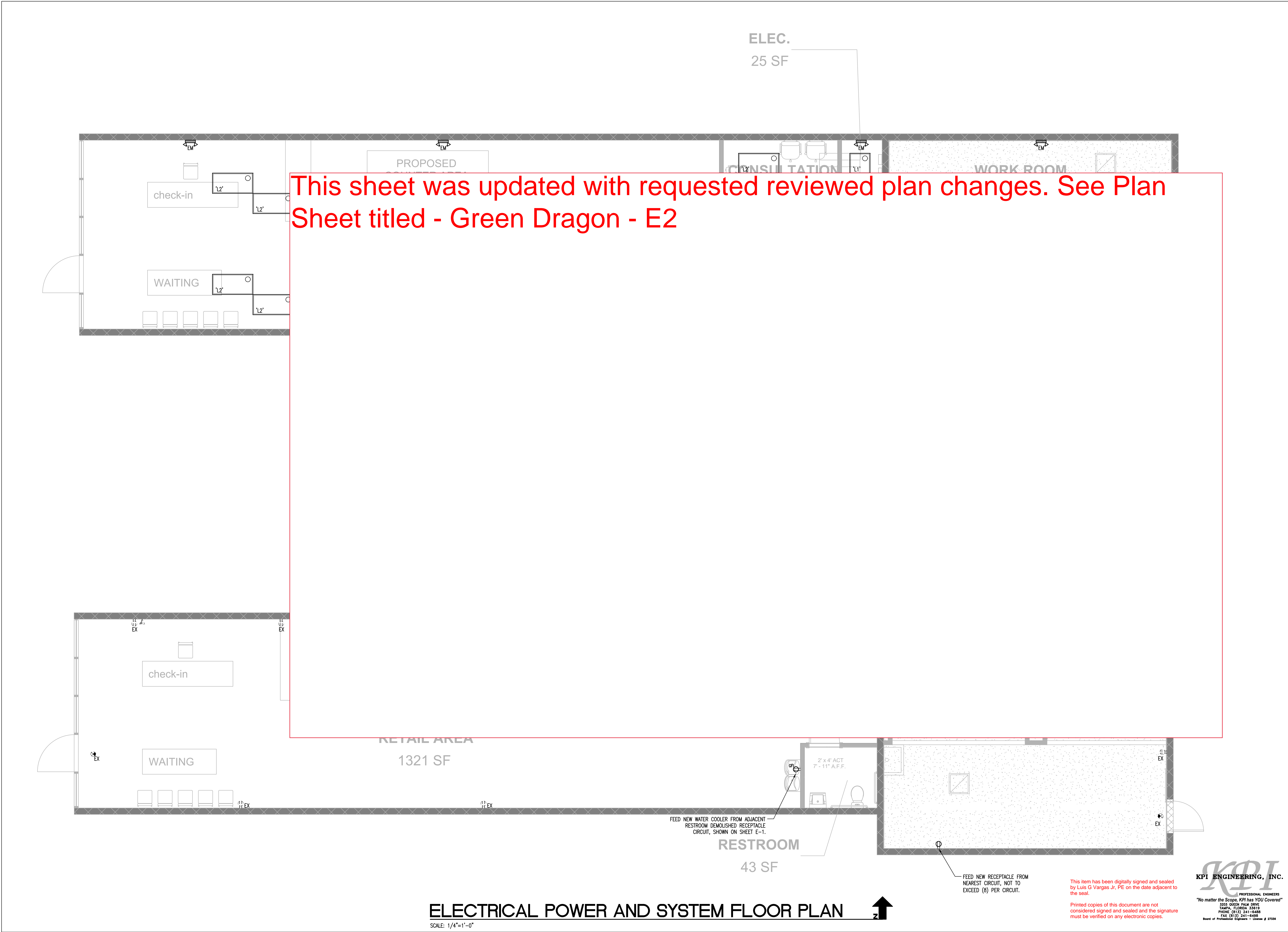
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Issue Dates
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ELECTRICAL SEE NOTELITION  
LAN

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Project No. 21037

Project Name:  
GREEN DRAGON  
DISPENSARY

Client:  
GREEN DRAGON  
905 SW Main Blvd, Suit 100  
Lake City, FL

Revisions	No:	Description:	Date:

Issue Dates  
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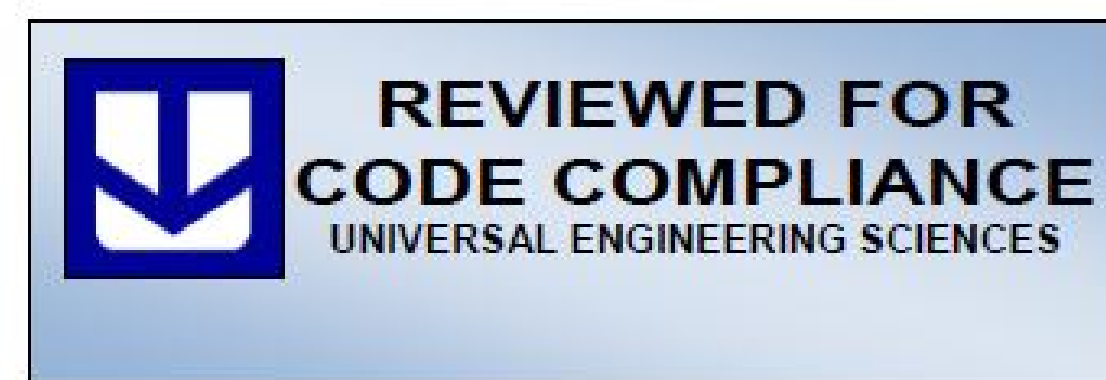
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LUIS G. VARGAS JR., P.E.  
FL. Lic. No. 52139 Exp 02-28-2023

ELECTRICAL  
CONSTRUCTION PLANS

E-2

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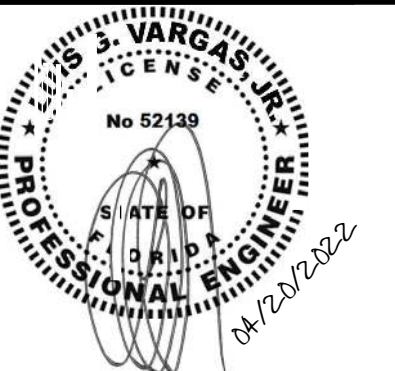
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# ELECTRICAL CONSTRUCTION PLANS

E-2

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## ABBREVIATIONS

AC	AIR CONDITIONING
ACH	AIR CHANGES PER HOUR
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
AP	ACCESS PANEL
BFF	BELOW FINISHED FLOOR
BHP	BRAKE HORSE POWER
BOT	BOTTOM
BTUH	BRITISH THERMAL UNIT PER HOUR
CC	COOLING COIL
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	CEILING
CT	COOLING TOWER
CU	CONDENSING UNIT
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROL
DG	DOOR GRILLE
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
DP	DEW POINT
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDH	ELECTRIC DUCT HEATER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EP	ELECTRIC-PNEUMATIC
ET	EXPANSION TANK
EL	ELEVATION
EQUIP	EQUIPMENT
EWT	ENTERING WATER TEMPERATURE
EXIST	EXISTING
ESP	EXTERNAL STATIC PRESSURE
FD	FIRE DAMPER
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FL	FLOOR
FM	FACTORY MUTUAL
FPI	FINS PER INCH
FPF	FINS PER FOOT
FFM	FEET PER MINUTE
FSD	FIRE/SMOKE DAMPER
G	NATURAL GAS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HUMIDITY
HC	HEATING COIL
HX	HEAT EXCHANGER
HP	HORSE POWER
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HVU	HEATING AND VENTILATING UNIT
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MD	MOTORIZED DAMPER
MAX	MAXIMUM
MEZZ	MEZZANINE
MIN	MINIMUM
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OS&Y	OUTSIDE SCREW & YOKE
PD	PRESSURE DROP
PE	PNEUMATIC-ELECTRIC
PRESS	PRESSURE
RA	RETURN AIR
RD	ROOF DRAIN
RG	REFRIGERANT
RHC	REHEAT COIL
RL	RAIN LEADER
RLA	RUNNING LOAD AMPS
RFM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
RS	REFRIGERANT SENSOR
SD	SMOKE DETECTOR
SA	SUPPLY AIR
SCBA	SELF CONTAINED BREATHING APPARATUS
SP	STATIC PRESSURE
STRUCT	STRUCTURAL
SYS	SYSTEM
T	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UC	UNDERCUT
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
UV	UNIT VENTILATOR
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
WB	WET BULB

## PIPING

	PIPING AND/OR EQUIPMENT TO BE REMOVED
	EXISTING PIPING TO REMAIN
	CONDENSER WATER SUPPLY
	CONDENSER WATER RETURN
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	CONDENSATE LINE
	REFRIGERANT PIPING
	HOT WATER SUPPLY
	HOT WATER RETURN
	HIGH PRESSURE CONDENSATE
	HIGH PRESSURE STEAM
	DOMESTIC WATER
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	BALL VALVE
	PLUG VALVE
	BUTTERFLY VALVE
	PRESSURE REDUCING VALVE
	2-WAY CONTROL VALVE
	3-WAY MODULATING CONTROL VALVE
	SAFETY OR PRESSURE RELIEF VALVE
	VALVE IN RISER
	DIRECTION OF FLOW
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	TOP CONNECTION, 45 OR 90 DEG.
	BOTTOM CONNECTION, 45 OR 90 DEG.
	SIDE CONNECTION
	CAPPED OUTLET
	DROP IN PIPING
	RISE IN PIPING
	UNION
	MOTOR OPERATED GATE VALVE
	MOTOR OPERATED GLOBE VALVE
	SOLENOID VALVE
	OUTSIDE SCREW & YOKE (O S & Y)
	WATER FLOW MEASURING DEVICE
	ANGLE GLOBE VALVE
	FLEXIBLE CONNECTION
	PRESSURE GAUGE
	THERMOMETER
	STRAINER WITH BALL VALVE
	EXPANSION JOINT

## CONTROLS

	ANALOG INPUT CONTROL POINT
	ANALOG OUTPUT CONTROL POINT
	DIGITAL INPUT CONTROL POINT
	DIGITAL OUTPUT CONTROL POINT
	PNEUMATIC CONTROL DEVICE
	ELECTRIC-PNEUMATIC
	ROOM THERMOSTAT / TEMPERATURE SENSOR
	SMOKE DETECTOR (DUCT MOUNTED) PROVIDED BY DIV. 16 INSTALLED BY DIV. 15
	PRESSURE DIFFERENTIAL SENSOR
	2-WAY CONTROL VALVE
	3-WAY MODULATING CONTROL VALVE
	HAND - OFF - AUTO SELECTOR SWITCH
	NORMALLY CLOSED CONTACTS
	NORMALLY OPEN CONTACTS
	ELECTRICAL WIRING
	INLINE FUSE
	CONTROL TRANSFORMER

## DUCTWORK

	SUPPLY DUCT (UP & DOWN)
	EXHAUST DUCT (UP & DOWN)
	RETURN AIR DUCT (UP & DOWN)
	CEILING DIFFUSERS/GRILLES (DOUBLE LINE)
	CEILING DIFFUSERS/GRILLES (SINGLE LINE)
	SIDE WALL REGISTER OR GRILLE (DOUBLE LINE)
	SIDE WALL REGISTER OR GRILLE (SINGLE LINE)
	NEW DUCT - WIDTH x DEPTH (DOUBLE LINE)
	NEW DUCT - WIDTH x DEPTH (SINGLE LINE)
	EXISTING DUCT TO REMAIN (DOUBLE LINE)
	EXISTING DUCT TO REMAIN (SINGLE LINE)
	EXISTING DUCT TO BE REMOVED (DOUBLE LINE)
	EXISTING DUCT TO BE REMOVED (SINGLE LINE)
	FLEXIBLE DUCTWORK (INSULATED)
	DUCT TRANSITION - CONCENTRIC (DOUBLE LINE)
	DUCT TRANSITION - CONCENTRIC (SINGLE LINE)
	DUCT TRANSITION - ECCENTRIC (DOUBLE LINE)
	DUCT TRANSITION - ECCENTRIC (SINGLE LINE)
	DUCT TRANSITION - RECT. TO RND (DOUBLE LINE)
	DUCT TRANSITION - RECT. TO RND (SINGLE LINE)
	MANUAL VOLUME DAMPER (DOUBLE LINE)
	MANUAL VOLUME DAMPER (SINGLE LINE)
	MOTOR OPERATED DAMPER
	BACK DRAFT DAMPER
	INCLINED RISE, IN DIRECTION OF AIR FLOW (DOUBLE LINE)
	INCLINED RISE, IN DIRECTION OF AIR FLOW (SINGLE LINE)
	INCLINED DROP, IN DIRECTION OF AIR FLOW (DOUBLE LINE)
	INCLINED DROP, IN DIRECTION OF AIR FLOW (SINGLE LINE)
	FLEXIBLE CONNECTION (DOUBLE LINE)
	FLEXIBLE CONNECTION (SINGLE LINE)
	SLEEVE FOR PENETRATION THROUGH A FIRE RATED PARTITION WALL
	FIRE DAMPER
	SMOKE DAMPER
	FIRE/SMOKE DAMPER
	SMOKE DETECTOR (DUCT MOUNTED)
	DUCT MOUNTED COIL/HEATER (DOUBLE LINE)
	DUCT MOUNTED COIL/HEATER (SINGLE LINE)
	VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH TURNING VANES EVEN IF SYMBOL IS MISSING)
	VANED RADIUS ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH TURNING VANES EVEN IF SYMBOL IS MISSING)
	ACOUSTICALLY LINED DUCT
	VANE TURN ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF (DOUBLE LINE)
	VANE TURN ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF (SINGLE LINE)

## DRAWING SYMBOLS

	SECTION NUMBER
	DRAWING NUMBER WHERE DRAWN
	DRAWING NUMBER WHERE CUT
	POINT OF DEMOLITION
	POINT OF NEW CONNECTION
	POINT OF INTERFACE BETWEEN CONTRACTORS
	KEYED NOTES (NEW CONSTRUCTION)
	KEYED NOTES (DEMOLITION)

## MECHANICAL GENERAL NOTES

- HVAC WORK CONSISTS OF PROVIDING AIR CONDITIONING SYSTEMS FOR A COMPLETE OPERATING SYSTEM AS INDICATED ON THE DRAWINGS. ALL WORK SHALL COMPLY WITH APPLICABLE CODES IN SPECIFICATIONS. IT IS THE INTENTION OF THE CONTRACT DRAWINGS AND SPECIFICATION TO CALL FOR COMPLETE, FINISHED WORK, TESTED, AND READY FOR OPERATION.
- TEST AND BALANCE SHALL BE PROVIDED PRIOR TO FINAL MECHANICAL INSPECTION BY AN INDEPENDENT COMPANY SPECIALIZING IN THE TESTING AND BALANCING OF HVAC SYSTEMS AS SUBCONTRACTOR TO THE HVAC CONTRACTOR, GENERAL CONTRACTOR, OR OWNER. THE TEST AND BALANCE CONTRACTOR SHALL BE A MEMBER OF EITHER ASSOCIATED AIR BALANCE COUNCIL (AABC) OR NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). THE MECHANICAL CONTRACTOR SHALL HAVE ALL SYSTEMS FULLY INSTALLED AND OPERATIONAL WITH CLEAN FILTERS PRIOR TO TABS.
- DUCT DIMENSIONS SHOWN ON THE DRAWINGS ARE CLEAR INSIDE AIR PASSAGE DIMENSIONS.
- PROVIDE SPIN-IN FITTINGS AT ALL FLEXIBLE DUCT RUN OUTS TO DIFFUSERS (NO EXTRACTOR) AND DAMPER.
- MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 8'-0".
- ALL PIPING SUBJECT TO THERMAL EXPANSION AND/OR CONTRACTION THAT PENETRATES A SMOKE, FIRE, OR FIRE/SMOKE WALL, PARTITION, OR FLOOR SLAB SHALL BE SUITABLY SLEEVED AND FIRE-SAFED.
- METAL DUCTS WHICH PENETRATE 1 HOUR RATED FIRE WALLS AND ARE LESS THAN 100 SQUARE INCHES SHALL EXTEND A MINIMUM OF 5 FEET ON BOTH SIDES OF THE WALL WITHOUT AN OPENING (TO PRECLUDE THE REQUIREMENT OF A FIRE DAMPER). DUCTWORK SHALL IN NO CASE BE LIGHTER THAN 24 GAUGE STEEL.
- PROVIDE IDENTIFICATION OF THE LOCATION OF ALL FIRE AND BALANCING DAMPERS. IDENTIFICATION TAGS SHALL BE AFFIXED TO THE WALLS OR CEILINGS AND SHALL BE VISIBLE FROM THE OCCUPIED SPACE.
- PROVIDE ORANGE TAGS ON ALL VOLUME AND BALANCING DAMPERS ABOVE THE CEILING. TAGS AND DAMPER HANDLES SHALL BE VISIBLE AND ACCESSIBLE FOR THE TEST & BALANCE AGENCY.
- ALL PIPING SHALL BE SUPPORTED WITH COMMERCIAL MANUFACTURED CLAMPS. PROVIDE ISOLATION SLEEVES TO PREVENT CONTACT OF DISSIMILAR METALS.
- INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS AND RECOMMENDATIONS.
- CONTRACTOR TO PROVIDE ALL SUPPLEMENTARY STEEL REQUIRED TO SUSPEND MECHANICAL EQUIPMENT AND MATERIALS.
- PENETRATIONS THROUGH FIRE RATED ASSEMBLIES, PENETRATIONS FOR PIPES, CONDUITS, OR OTHER PURPOSES THROUGH ASSEMBLIES (FLOORS, ROOF, WALLS, PARTITIONS, ETC.) WITH A REQUIRED FIRE RESISTANCE RATING FIRE STOP MATERIAL SHALL BE LISTED AND INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS TO MEET OR EXCEED THE FIRE RATING OF THE PENETRATED ASSEMBLY.
- ALL INSULATION SHALL BE FIRE RATED IN ACCORDANCE WITH NFPA 90A 50/25 SMOKE DEVELOPMENT AND FLAME SPREAD REQUIREMENTS. INSULATION "R" VALUES SHALL COMPLY WITH THE FLORIDA ENERGY CODE.
- MOUNT ALL SPACE THERMOSTATS AND/OR SENSORS 4 FEET ABOVE THE FLOOR, UNLESS OTHERWISE NOTED.
- INSTALL DUCT MOUNTED SMOKE DETECTORS (FURNISHED BY DIVISION 16) IN SUPPLY AND RETURN AIR DUCTWORK CONNECTED TO EACH A/C UNIT. WIRE DUCT MOUNTED SMOKE DETECTORS SUCH THAT ACTIVATION WILL DE-ENERGIZE AIR HANDLING UNIT FAN. LOCATE DUCT MOUNTED SMOKE DETECTORS THE REQUIRED DISTANCE DOWNSTREAM FROM BENDS OR INLETS AS RECOMMENDED BY THE MANUFACTURER.
- AIR HANDLING UNITS SHALL BE SHUT DOWN BY THE FIRE ALARM SYSTEM. WIRE THROUGH FIRE ALARM RELAY CONTACT (PROVIDED BY THE FIRE ALARM CONTRACTOR) TO SHUT DOWN AIR HANDLING UNITS UPON FIRE ALARM ACTIVATION. COORDINATE WITH FIRE ALARM CONTRACTOR ACCORDINGLY. WHEN AIR HANDLING UNITS SHUT DOWN FOR FIRE ALARM OR MAINTENANCE, INTERLOCKED EXHAUST FANS SHALL ALSO SHUT DOWN.
- ACTIVATION OF THE FIRE ALARM SHALL CLOSE ALL SMOKE DAMPERS. SMOKE DAMPERS SHALL REOPEN AUTOMATICALLY UPON RESTORATION OF THE FIRE ALARM. "ALL CLEAR" SIGNAL COORDINATE THE WIRING OF THE COMBINATION SMOKE/FIRE DAMPERS WITH THE FIRE ALARM CONTRACTOR ACCORDINGLY.
- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL AIR DEVICES LOCATED IN THE CEILING.
- SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS OF MECHANICAL EQUIPMENT.
- UNLESS OTHERWISE NOTED, INSTALL ALL DUCTWORK AS HIGH AS POSSIBLE, TIGHT TO THE BOTTOM OF THE STRUCTURE. COORDINATE ELEVATION AND LOCATION WITH RAIN LEADERS, WATER PIPING, PLUMBING VENTS, AND MAJOR ELECTRICAL CONDUITS OR CABLE TRAY.
- PROVIDE MANUAL DAMPERS IN ALL OUTSIDE AIR DUCTS.
- PROVIDE DRAIN P-TRAPS IN THE CONDENSATE LINES AT ALL AIR HANDLING UNITS.
- ROUTE FULL SIZE (MIN. 1") COPPER DRAIN PIPE FROM EACH AHU DRAIN PAN TO RESPECTIVE FLOOR DRAIN. INSULATE WITH 3/4" ARMSTRONG "ARMAFLEX" INSULATION.
- THE ENGINEER HAS MADE AN EXTENSIVE EFFORT TO IDENTIFY ABOVE CEILING CONFLICTS. THE CONTRACTOR IS RESPONSIBLE TO CHECK FIELD CONDITIONS PRIOR TO BIDDING AND REPORT ANY PROBLEMS/CONFLICTS TO THE ENGINEER WITHIN 2 DAYS OF DISCOVERY. ANY CHANGES RESULTING FROM CONDITIONS ARISING IN THE FIELD WHICH WERE NOT BROUGHT TO THE ENGINEER'S ATTENTION ARE TO BE MADE BY THIS CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER.
- THE WORK INDICATED ON THESE DRAWINGS IS GENERALLY DIAGRAMMATIC AND IS INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE THE GENERAL ARRANGEMENT OF DUCTWORK AND EQUIPMENT, ETC.
- ALL WORK IS TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. ALL DEFECTS WHICH DEVELOP OR ARE DISCOVERED WITHIN THIS PERIOD SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
- UPON COMPLETION OF THE WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL REMOVE ALL TOOLS, APPLIANCES, SURPLUS MATERIALS, AND SCRAP. ALL IDENTIFIED EXISTING EQUIPMENT TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER.
- WHEN CONFLICTS OCCUR IN SPECIFICATIONS OR IN THE DRAWINGS, OR BETWEEN EITHER, THE ITEMS OF GREATER QUANTITY OR HIGHER COST SHALL BE PROVIDED.
- THE CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES IN ORDER TO AVOID CONFLICTS.
- PROVIDE BALANCING DAMPER IN EACH BRANCH CONNECTION.
- ALL DUCTWORK INSTALLED ON THIS PROJECT SHALL BE OF SHEET METAL CONSTRUCTION. DUCTWORK SHALL BE FABRICATED AND CONSTRUCTED IN ACCORDANCE WITH SMACNA REQUIREMENTS.
- ALL ROOF ATTACHED EQUIPMENT AND APPURTENANCES INCLUDED IN THE SCOPE OF THIS PROJECT ARE REQUIRED TO BE SECURED TO THE UNDERLYING BUILDING STRUCTURE. THE FASTENING SYSTEMS SHALL BE INSTALLED TO RESIST THE WIND PRESSURES ON THE EQUIPMENT AS DETERMINED IN ACCORDANCE WITH THE CURRENT BUILDING CODE.
- WHEN THE REMOVAL OF REFRIGERANT IS REQUIRED, A LICENSED AND CERTIFIED CONTRACTOR SHALL RECOVER REFRIGERANT IN ACCORDANCE WITH EPA REGULATIONS (AND SECTION 608 OF THE CLEAN AIR ACT (CAA)) AND DELIVER REFRIGERANT TO APPROVED RECLAMATION SITE OR RECOVER FOR USE IN OTHER SYSTEMS.

## NOTE:

THESE ARE STANDARD SYMBOLS AND GENERAL NOTES AND MAY NOT ALL APPEAR ON THE PROJECT DRAWINGS. HOWEVER WHEREVER THE SYMBOL APPEARS ON THE PROJECT DRAWINGS, THE ITEM SHALL BE PROVIDED AND INSTALLED.

## DRAWING INDEX

### MECHANICAL

- M-0 ABBREVIATIONS, LEGENDS AND GENERAL NOTES
- M-1 MECHANICAL DEMOLITION FLOOR PLAN
- M-2 MECHANICAL NEW CONSTRUCTION FLOOR PLAN
- M-3 MECHANICAL SCHEDULES AND DETAILS

## SYSTEM SUMMARY

HVAC DESIGN PARAMETERS				
CITY	SUMMER DESIGN OUTDOOR	SUMMER DESIGN INDOOR	WINTER DESIGN OUTDOOR	WINTER DESIGN INDOOR
LAKE CITY, FL	92°F / 77°F	75°F / 50%RH	34°F	72°F
BUILDING U-VALUE	GLASS U-VALUE	SYSTEM	VENTILATION RATE AS PER ASHRAE 62.1	FILTRATION CRITERIA ASHRAE 52.2
ROOF = 0.0526 WALL = 0.125	GLASS = N/A SC = N/A	RTU-1 (EXISTING)	7.5 CFM/PERSON & .18 CFM/SQ.FT.	1" MERV 8
SYSTEM OCCUPANCY				DESIGN NOTES:
SYSTEM	# OF PEOPLE	OUTSIDE AIR (CFM)	TYPE OF OCCUPANCY	
RTU-1 (EXISTING)	-	-	-	
-	-	-	-	
-	-	-	-	

## BUILDING CODES

THESE PLANS WERE PREPARED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 7TH EDITION (2020) INCLUDING ALL APPLICABLE SECTIONS OF FBC BUILDING, MECHANICAL, PLUMBING, FUEL GAS, RESIDENTIAL, ENERGY CONSERVATION, TEST PROTOCOLS, ACCESSIBILITY, EXISTING BUILDING INCLUDING BUT NOT LIMITED TO THE FOLLOWING REFERENCED STANDARDS. ALL MECHANICAL WORK PERFORMED SHALL MEET THE APPLICABLE REQUIREMENTS OF THESE CODES AND REFERENCED STANDARDS:

- FLORIDA FIRE PREVENTION CODE: FFPCC 7TH EDITION, 2020, INCLUDING THE FLORIDA EDITIONS OF NFPA 1 (FIRE CODE) AND NFPA 101 (LIFE SAFETY CODE)
- NFPA-70 (NATIONAL ELECTRIC CODE, 2017 ED.)
- NFPA 90A (STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION, 2021 ED.)
- ASHRAE 62.1 (VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY, 2019 ED.)
- SMACNA/ANSI (HVAC DUCT CONSTRUCTION STANDARDS, METAL & FLEXIBLE, 2005 3RD ED.)
- SMACNA (FIBROUS GLASS DUCT CONSTRUCTION STANDARDS, 2003 7TH ED.)
- NAMA AH116 (FIBERGLASS DUCT CONSTRUCTION STANDARDS, 2009 ED.)
- MSS SP-58 (PIPE HANGERS AND SUPPORTS-MATERIALS DESIGN AND MANUFACTURE, SELECTION, APPLICATION AND INSTALLATION, 2009 ED.)



**REVIEWED FOR  
CODE COMPLIANCE**  
UNIVERSAL ENGINEERING SCIENCES

Scott Nelson

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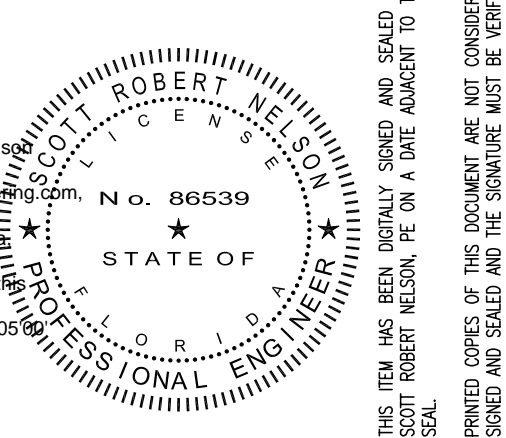
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Issue Dates

Revisions	No.	Description	Date

Seal:



03/01/22

SCOTT ROBERT NELSON, P.E.  
FL LIC. No. 86539 EXP. 02-28-2023

ABBREVIATIONS,  
LEGENDS AND GENERAL  
NOTES

M-0

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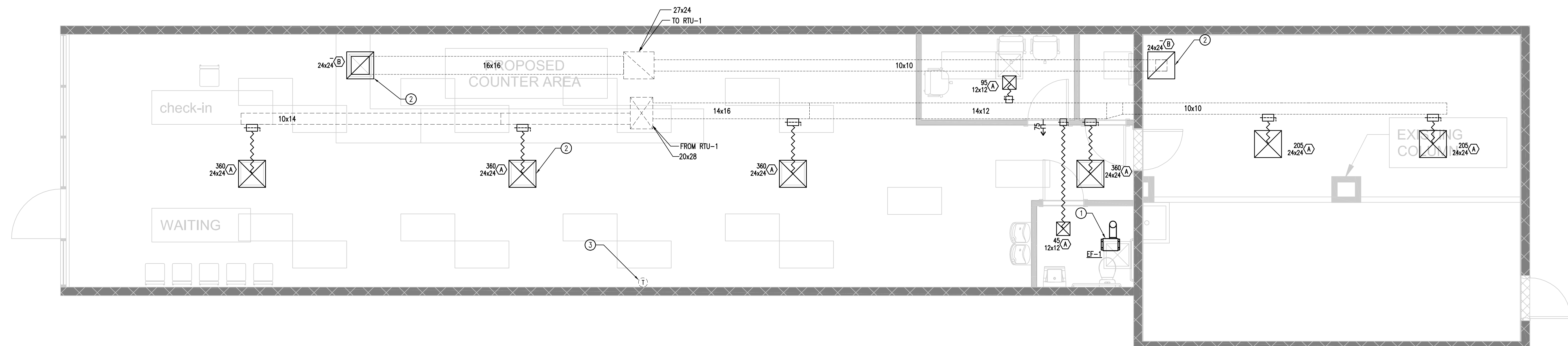


## MECHANICAL KEY NOTES

- ① MECHANICAL CONTRACTOR PROVIDE CEILING EXHAUST FAN PER FAN SCHEDULE. PROVIDE GALVANIZED STEEL EXHAUST DUCTING IN SIZE SHOWN. ROUTE DUCTING UP THROUGH ROOF AND TERMINATE WITH GOOSENECK PER MECHANICAL DETAIL.
- ② MECHANICAL CONTRACTOR PROVIDE AIR DEVICES PER AIR DEVICE SCHEDULE. TYPICAL OF ALL.
- ③ EXISTING THERMOSTAT TO REMAIN. FILED VERIFY LOCATION.

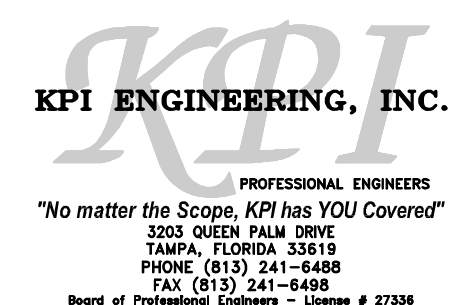
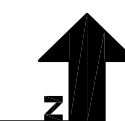
**GENERAL NOTES:**

1. UNLESS OTHERWISE NOTED, ALL DUCTWORK TO BE MOUNTED AS TIGHT TO FLOOR DECKING ABOVE TO CREATE WORKABLE SPACE FOR ALL TRADES IN SOFFIT AREAS.
2. CONTRACTOR SHALL REVIEW MECHANICAL EQUIPMENT PRIOR TO STARTING ANY WORK AND NOTE ALL DEFICIENCIES TO THE OWNER AND ENGINEER ALONG WITH ASSOCIATED REPLACEMENT COSTS PRIOR TO DEMOLITION.



# MECHANICAL NEW CONSTRUCTION FLOOR PLAN

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



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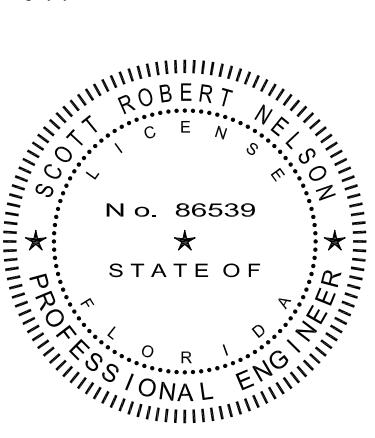
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12/22/21

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MECHANICAL NEW  
CONSTRUCTION FLOOR  
PLAN

# M-2

PERMIT DOCUMENTS







## ABBREVIATIONS

ABV	ABOVE
BV	BALL VALVE
BLW	BELOW
CLG	CEILING
CO	CLEANOUT
CW	COLD WATER
DN	DOWN
D	DRAIN
EXIST	EXISTING
FLR	FLOOR
GPM	GALLONS PER MINUTE
HW	HOT WATER
NIC	NOT IN CONTRACT
V	VENT
VIF	VERIFY IN FIELD
VO	VALVED OUTLET
W	WASTE

## PIPING

	EXISTING COLD WATER PIPING
	EXISTING SANITARY PIPING
	EXISTING VENT PIPING
	NEW CAPPED AND/OR PLUGGED PIPING BELOW EXISTING FLOOR SLAB AT MAINS, LEAVE NO DEAD ENDS TERMINATING AT A DEVELOPED LENGTH OF 2'-0" OR MORE
	CAP AND/OR PLUG EXISTING PIPING ABOVE CEILING OR BELOW EXISTING FLOOR SLAB (TYPICAL)
	NEW WASTE PIPING
	NEW VENT PIPING
	NEW COLD WATER PIPING
	NEW HOT WATER PIPING
	HAMMER ARRESTOR (PDI SIZE INDICATED)
	CLEANOUT EXPOSED
	SIDE CONNECTION
	DROP IN PIPING
	BALL VALVE

## PLUMBING GENERAL NOTES

- CONTRACTOR SHALL PROVIDE COMPLETE PLUMBING SYSTEMS AS DETAILED ON THESE DRAWINGS. WORK CONSISTS OF FURNISHING ALL MATERIALS, EQUIPMENT, AND SERVICES REQUIRED FOR COMPLETE SYSTEMS. INCLUDE ANY INCIDENTAL APPARATUS, APPLIANCES, MATERIAL LABOR AND SERVICES NECESSARY TO MAKE NEW WORK COMPLETE IN ALL RESPECTS AND FULLY READY FOR OPERATION.
- THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR CUTTING AND PATCHING THAT MAY BE REQUIRED DUE TO SCOPE OF WORK. COORDINATE WITH THE GENERAL CONTRACTOR.
- ALL PLUMBING WORK SHALL BE DESIGNED, INSTALLED, TESTED, AND CLEANED IN ACCORDANCE WITH FLORIDA BUILDING CODE SEVENTH EDITION (2020) FLORIDA PLUMBING CODE SEVENTH EDITION (2020)
- VERIFY THE EXACT LOCATION OF EXISTING SANITARY, WASTE, VENT AND COLD AND HOT WATER PIPING FROM THE ACTUAL JOB SITE PRIOR TO SUBMITTING BID. SUBMISSION OF YOUR PROPOSAL SHALL BE CONSTRUED AS INDICATING SUCH KNOWLEDGE. NO ADDITIONAL PAYMENT WILL BE MADE ON CLAIMS THAT ARISE FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT.
- MAKE SUCH OFFSETS AND DEVIATIONS FROM WORK SHOWN ON THE DRAWINGS, AS MAY BE NECESSARY TO FIT THE ACTUAL SPACE CONDITIONS.
- WHERE VALVES OCCUR ABOVE DRYWALL OR PLASTER OR ARE CONCEALED BEHIND WALLS, THIS CONTRACTOR SHALL FURNISH AND INSTALL ACCESS PANELS. COORDINATE COLOR AND STYLE WITH ENGINEER/ARCHITECT.
- PROVIDE AND MAINTAIN TEMPORARY CONNECTIONS TO KEEP EXISTING UTILITIES IN SERVICE. ANY SHUT DOWNS ARE TO BE APPROVED BY OWNER'S REPRESENTATIVE.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ROUGHING DIMENSIONS OF ALL PLUMBING FIXTURES, DRAINS, ETC.
- INSTALLER SHALL NOT CUT ANY EXISTING STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT.
- PROVIDE DIELECTRIC UNIONS AT ALL CONNECTIONS BETWEEN DISSIMILAR PIPING METALS.
- FIELD VERIFY ALL EXISTING PIPE SIZES PRIOR TO INSTALLATION.
- PROVIDE ALL SINKS SHALL BE PROVIDED WITH A CLEANOUT.
- CONTRACTOR IS RESPONSIBLE TO ALSO CHECKING FIELD CONDITIONS PRIOR TO BIDDING AND REPORT ANY PROBLEMS/CONFLICTS TO THE ENGINEER WITHIN 2 DAYS OF DISCOVERY. ANY CHANGES RESULTING FROM CONDITIONS ARISING IN THE FIELD WHICH WERE NOT BROUGHT TO THE ENGINEER'S ATTENTION ARE TO BE MADE BY THIS CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER.
- ALL WORK IS TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE(1) YEAR FROM DATE OF FINAL ACCEPTANCE. ALL DEFECTS WHICH DEVELOP OR ARE DISCOVERED WITHIN THIS PERIOD SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
- UPON COMPLETION OF THE WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL REMOVE ALL TOOLS, APPLIANCES, SURPLUS MATERIALS, AND SCRAP. ALL IDENTIFIED EXISTING EQUIPMENT TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER.
- WHEN CONFLICTS OCCUR IN SPECIFICATIONS OR IN THE DRAWINGS, OR BETWEEN EITHER, THE ITEMS OF GREATER QUANTITY OR HIGHER COST SHALL BE PROVIDED.
- THE CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES IN ORDER TO AVOID CONFLICTS.
- ALL NEW PIPING SHALL BE PER SPECIFICATIONS ON THIS DRAWING.
- PROVIDE AIR CHAMBERS AT COLD AND HOT WATER CONNECTION TO ALL FIXTURES FOR SHOCK ABSORPTION PER SPECIFICATIONS.

## DRAWING INDEX

### PLUMBING

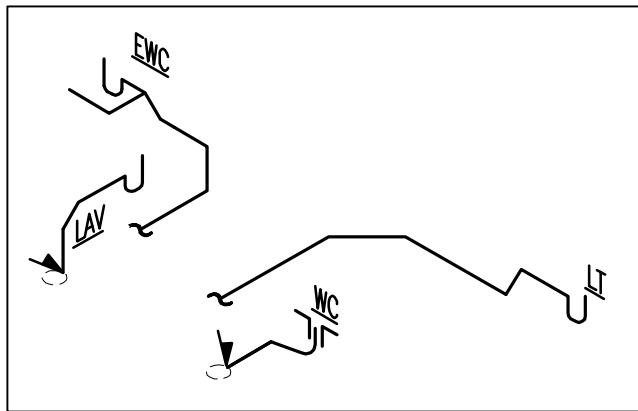
P-0 LEGENDS, ABBREVIATIONS, GENERAL NOTES AND SCHEDULES  
P-1 PLUMBING EXISTING AND PROPOSED FLOOR PLAN

## PLUMBING FIXTURE SCHEDULE

MARK	ITEM	COLD WATER	HOT WATER	SANITARY AND/OR WASTE	VENT
WC	<b>WATER CLOSET:</b> KOHLER K-4325 HIGHCLIFF, WALL MOUNTED, VITREOUS CHINA, TOP SPUD, SIPHON JET, ELONGATED BOWL (1.6 GPF) FLUSH VALVE: SLOAN OPTIMA C2 8111-1.6 GPF BATTERY OPERATED TOUCH LESS SEAT: BEMIS 3155SSCOT ANTIMICROBIAL COMMERCIAL OPEN FRONT LESS COVER, WITH SELF SUSTAINING STAINLESS STEEL CHECK HINGE CARRIER: ZURN Z1201-N HORIZONTAL OFF THE FLOOR AND Z1204-N ADJUSTABLE VERTICAL WHERE REQUIRED COLOR AND/OR FINISH SELECTION BY ARCHITECT	1/2"	-	3"	2"
LAV	<b>LAVATORY:</b> KOHLER, GREENWICH WALL-MOUNT BATHROOM SINK, K-2031 FAUCET: SLOAN SENSOR FAUCET, SF-2150-4-BAT-BDM-CP-0.35GPM-MLM-IR-FCT DRAIN: ZURN ZB746-PC OPEN GRID CHROME PLATED 17 GAUGE TRAP: ZURN ZB700-PC 1-1/4" X 1 1/2" CHROME PLATED 17 GAUGE P TRAP WITH CLEANOUT SUPPLIES: ZURN 1/2" X 3/8" X 12" CHROME PLATED FLEXIBLE SUPPLIES WITH LOOSE KEY STOPS INSULATE WASTE AND WATER SUPPLIES BELOW LAVATORY WITH TRUEBRO PIPE" INSULATION WALL CARRIER: ZURN Z1231 CONCEALED ARM SYSTEM COLOR AND/OR FINISH SELECTION BY ARCHITECT	1/2"	1/2"	2"	2"
FWC	<b>ELECTRIC WATER COOLER:</b> ELKAY EZSTLWSLK BI-LEVEL WITH EZH2O BOTTLE FILLING, WALL MOUNTED, FILTERED 8.0 GPH WITH LIGHT GRAY GRANITE VINYL CLAD CABINET PLUGS INTO WALL OUTLET 110-120V/60Hz TRAP: ZURN ZB702-PC 1-1/4" X 1 1/4" CHROME PLATED 17 GAUGE P TRAP WITH CLEANOUT SUPPLY: ZURN 1/2" X 3/8" X 12" CHROME PLATED LEAD FREE FLEXIBLE SUPPLY WITH 1/4 TURN STOP FIXTURE CARRIER: ZURN Z1225-BL PLATE SYSTEM TYPE REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT	1/2"	-	2"	2"
WCO	<b>WALL CLEANOUT:</b> ZURN Z1441 ROUND WITH SMOOTH STAINLESS STEEL COVER, CENTER SCREW, AND RECESSED BRONZE THREADED TAPPED PLUG	-	-	SEE DRAWINGS	-
TMV	<b>THERMOSTATIC MIXING VALVE:</b> BRADLEY S59-2045 LEAD FREE STANDARD THERMOSTATIC MIXING VALVE SERIES, MINIMUM FLOW .5, MAXIMUM 24 GPM @ 15 PSI DROP	1"	1"	-	-
EW	<b>ELECTRIC WATER HEATER:</b> A.O. SMITH PROLINE TALL ELECTRIC 30-GAL ENT-30 SURFACE MOUNTED THERMOSTATS, ASME RATED HEATER SHALL BE MOUNTED IN A DRAIN PAN OPEN END 1" PAN DRAIN AND 3/4" RELIEF LINE TO OPEN FLOOR DRAIN	3/4"	3/4"	-	-
LT	<b>LAUNDRY TUB:</b> FIAT TATI FLOOR MOUNTED HEAVY DUTY POLYETHYLENE SINGLE BOWL, TUB W/LESS COMPLETE WITH CP FAUCET 4" CENTERSET, 4" WRISTBLADE HANDLES SWIH'NG SPOUT AREATOR AND HOSE ADAPTER INTEGRAL DRAIN WITH PLUG "P" TRAP AND SUPPLY	1/2"	1/2"	2"	2"

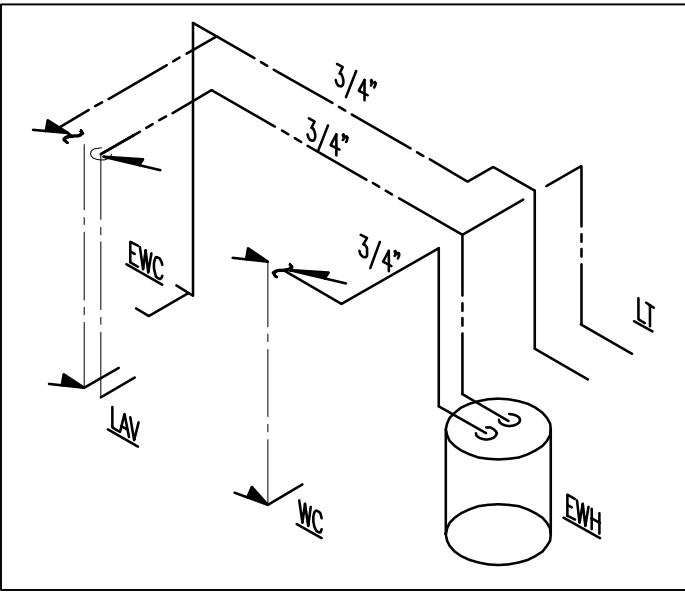
## NOTE:

THESE ARE STANDARD SYMBOLS AND GENERAL NOTES  
MAY NOT ALL APPEAR ON THE PROJECT DRAWINGS:  
HOWEVER WHEREVER THE SYMBOL PROJECT DRAWINGS,  
THE ITEM SHALL BE PROVIDED AND INSTALLED.



## SANITARY AND VENT ISOMETRIC

NOT TO SCALE



## DOMESTIC WATER ISOMETRIC

NOT TO SCALE

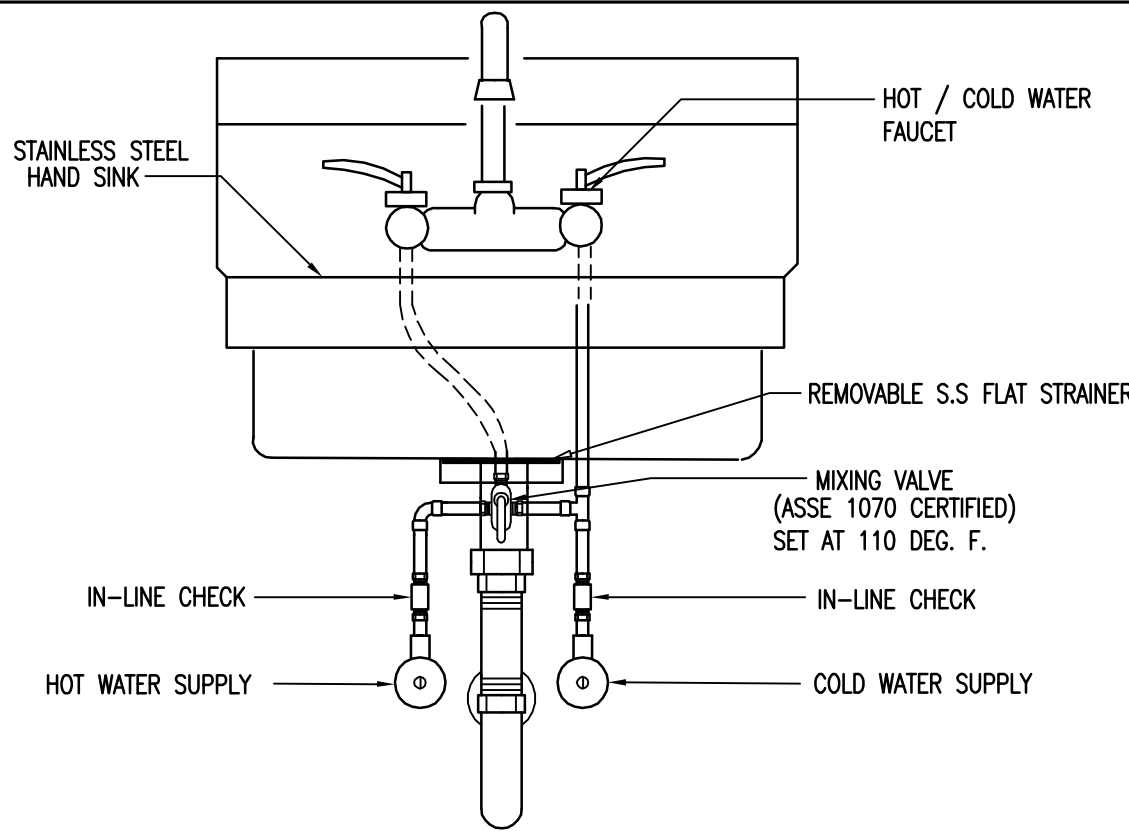
## GENERAL DEMOLITION NOTES

- INFORMATION SHOWN HERE REFLECTS EXISTING RECORDS AND RECENT ON-SITE OBSERVATIONS. THE DEMOLITION WORK SHOWN IS INTENDED TO CONVEY THE GENERAL NATURE AND SCOPE OF THE WORK REQUIRED. THE CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK NECESSARY TO PROPERLY COMPLETE THE NEW WORK SHOWN ELSEWHERE.
- PROVIDE TEMPORARY MECHANICAL, ELECTRICAL AND LIGHTING EQUIPMENT AS NECESSARY TO MAINTAIN PROPER OPERATION OF ALL SYSTEMS AND PROVIDE FOR WORKER SAFETY.
- PROTECT EXISTING PIPING, DUCTWORK, CONDUIT ECT. FROM THE ENTRANCE OF FOREIGN MATERIALS.
- PROVIDE PLASTIC SHEETING AND SEALING AROUND DOORS AND OPENINGS TO PROTECT ADJACENT AREAS FROM THE SPREAD OF DUST AND DEMOLITION DEBRIS TO OCCUPIED AREAS OF THE BUILDING. KEEP ALL ADJOINING AREAS ADJACENT TO THE WORK AREA CLEAN AND FREE OF DEBRIS.

## BUILDING CODES

THESE PLANS WERE PREPARED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 7TH EDITION (2020) INCLUDING ALL APPLICABLE SECTIONS OF FBC BUILDING, MECHANICAL, PLUMBING, RESIDENTIAL, ENERGY CONSERVATION, TEST PROTOCOLS, ACCESSIBILITY, EXISTING BUILDING INCLUDING BUT NOT LIMITED TO THE FOLLOWING REFERENCED STANDARDS: ALL PLUMBING WORK PERFORMED SHALL MEET THE APPLICABLE REQUIREMENTS OF THESE CODES AND REFERENCED STANDARDS:

- FLORIDA FIRE PREVENTION CODE: FFPC 7th Edition, 2020, INCLUDING THE FLORIDA EDITIONS OF NFPA 1 (FIRE CODE) AND NFPA 101 (LIFE SAFETY CODE)



## HAND SINK MIXING VALVE DETAIL

NOT TO SCALE

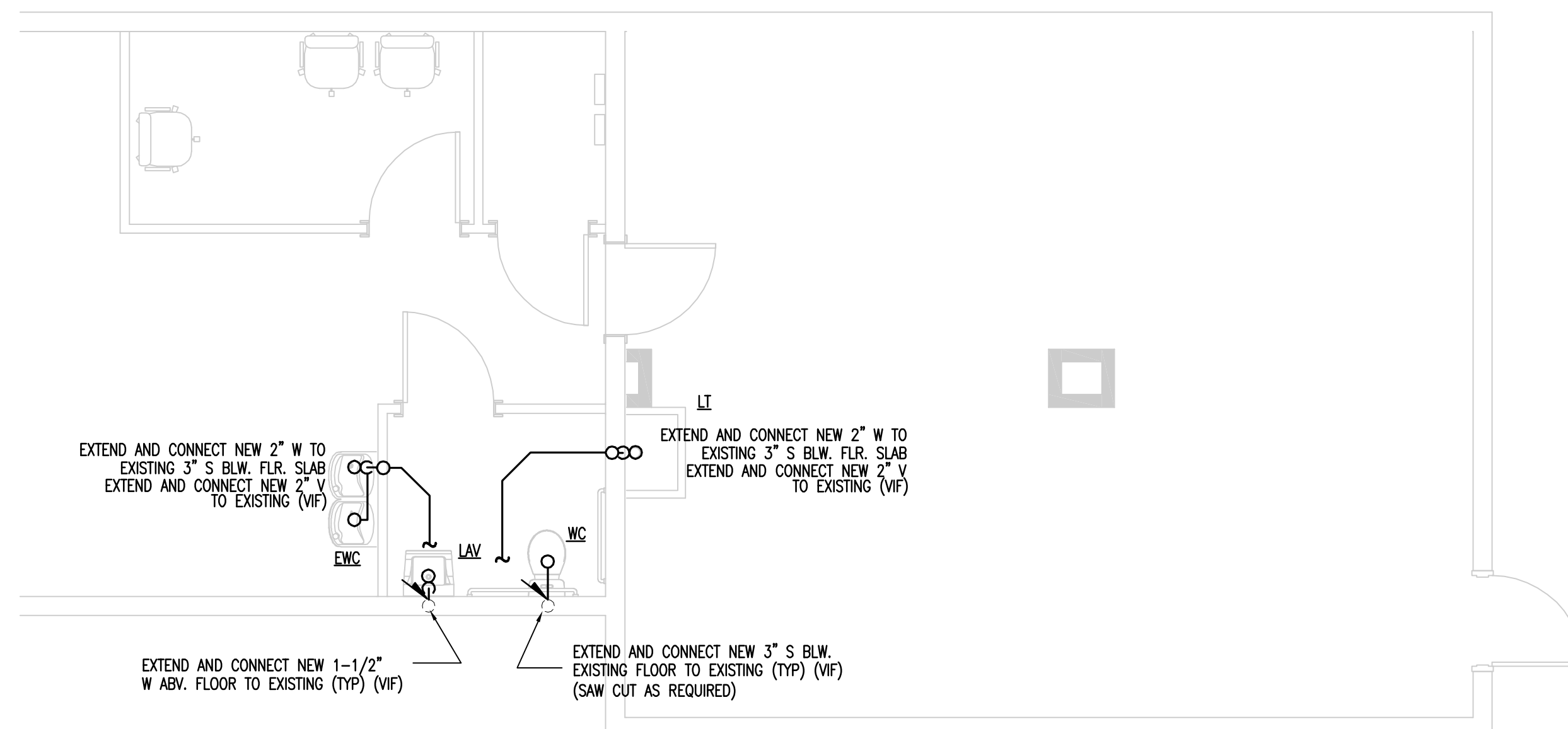
## SPECIFICATIONS

- BASIC MATERIAL AND METHODS**
  - SCOPE OF WORK**  
PROVIDE LABOR AND MATERIALS AS REQUIRED TO PROVIDE A FULLY FUNCTIONING AND COMPLETE SYSTEM AS INDICATED ON DRAWINGS. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND EQUIPMENT. FINAL LOCATIONS OF EQUIPMENT SHALL BE FIELD DETERMINED. ALL DISCREPANCIES ON DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING PRIOR TO SUBMISSION OF BIDS.
  - GENERAL AND SPECIAL CONDITIONS**  
ALL DIVISION 1 SPECIFICATIONS AND ARCHITECTURAL GENERAL AND SPECIAL CONDITIONS OUTLINED IN THE CONTRACT DOCUMENTS APPLY TO MECHANICAL SYSTEMS. ADDITIONAL, WORK SHALL COMPLY WITH FLORIDA BUILDING CODE (2010) ORDINANCES AND REGULATIONS OF THE LOCAL AUTHORITY HAVING JURISDICTION, NATIONAL FIRE PROTECTION AND NATIONAL ELECTRICAL CODE. ALL EQUIPMENT SHALL CARRY THE UNDERWRITER'S LABORATORIES (UL) SEAL WHERE APPLICABLE.
  - QUALITY CONTROL**  
UNLESS OTHERWISE NOTED, PROVIDE NEW MATERIALS FREE OF DEFECTS, WHERE NO SPECIFIC WEIGHTS OR GRADES ARE SPECIFIED PROVIDE MATERIALS OF AN ACCEPTED STANDARD WEIGHT AND GRADE ACCORDING TO CODE AND GOVERNING STANDARDS BY ASHRAE, SMACNA, NFPA AND UL. INSTALL ALL EQUIPMENT, PIPING, DUCTWORK AND CONTROLS IN ACCORDANCE WITH CODES, GOVERNING STANDARDS, AND MANUFACTURER'S RECOMMENDATIONS.  
FIRE PERFORMANCE CHARACTERISTICS OF INSTALLED MATERIALS SHALL BE RATED IN ACCORDANCE WITH ASTM E84. MAXIMUM SMOKE DEVELOPED RATING SHALL BE 50.  
SUPPLIED EQUIPMENT SHALL BE AS SCHEDULED OR OWNER APPROVED EQUAL IN QUALITY AND PERFORMANCE.
  - COORDINATION**  
COORDINATE ALL WORK FOR PROPER LOCATION, POWER, AND UTILITY REQUIREMENTS. SCHEDULE INSTALLATIONS TO AVOID CONFLICT AMONG TRADES. ADDITIONS TO THE CONTRACT FOR COORDINATION AMONG TRADES WILL NOT BE ALLOWED.
  - PENETRATIONS, CUTTING AND PATCHING**  
SEAL ALL PIPING PENETRATIONS OF WALLS IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. PIPING PENETRATIONS OF RATED FLOORS AND WALLS SHALL BE SEALED WITH FIRE STOPPING MATERIAL. FLASH ALL ROOF AND WALL PENETRATIONS IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS. PROVIDE FIRE DAMPERS AT ALL RATED PENETRATIONS.
- PIPING**  
PUMP DISCHARGE PIPING ABOVE SLAB TYPE L COPPER (OR BUILDING STANDARDS)  
PIPING BELOW FLOOR SLAB: SCHEDULE 40 SOLID CORE PVC (OR BUILDING STANDARDS)  
VENT PIPING ABOVE FLOOR: SCHEDULE 40 SOLID CORE PVC (OR BUILDING STANDARDS)  
WATER PIPING ABOVE FLOOR: TYPE L COPPER WITH COMPRESSION FITTINGS (OR BUILDING STANDARDS)  
VALVES: NIBCO OR EQUAL FULL PORT  
COLD WATER PIPE INSULATION: 1" FIBERGLASS OWENS CORNING SSL II, ASJ  
HOT WATER PIPE INSULATION: 1" FIBERGLASS OWENS CORNING SSL II, ASJ  
PIPE HANGERS: 3/8" THREADED ROD, WITH ADJUSTABLE BAND HANGER
- SUBMITTALS**  
SHOP DRAWINGS MUST BE SUBMITTED AND APPROVED PRIOR TO ORDERING EQUIPMENT. ENGINEER WILL REQUIRE 10 WORKING DAYS TO REVIEW DRAWINGS.



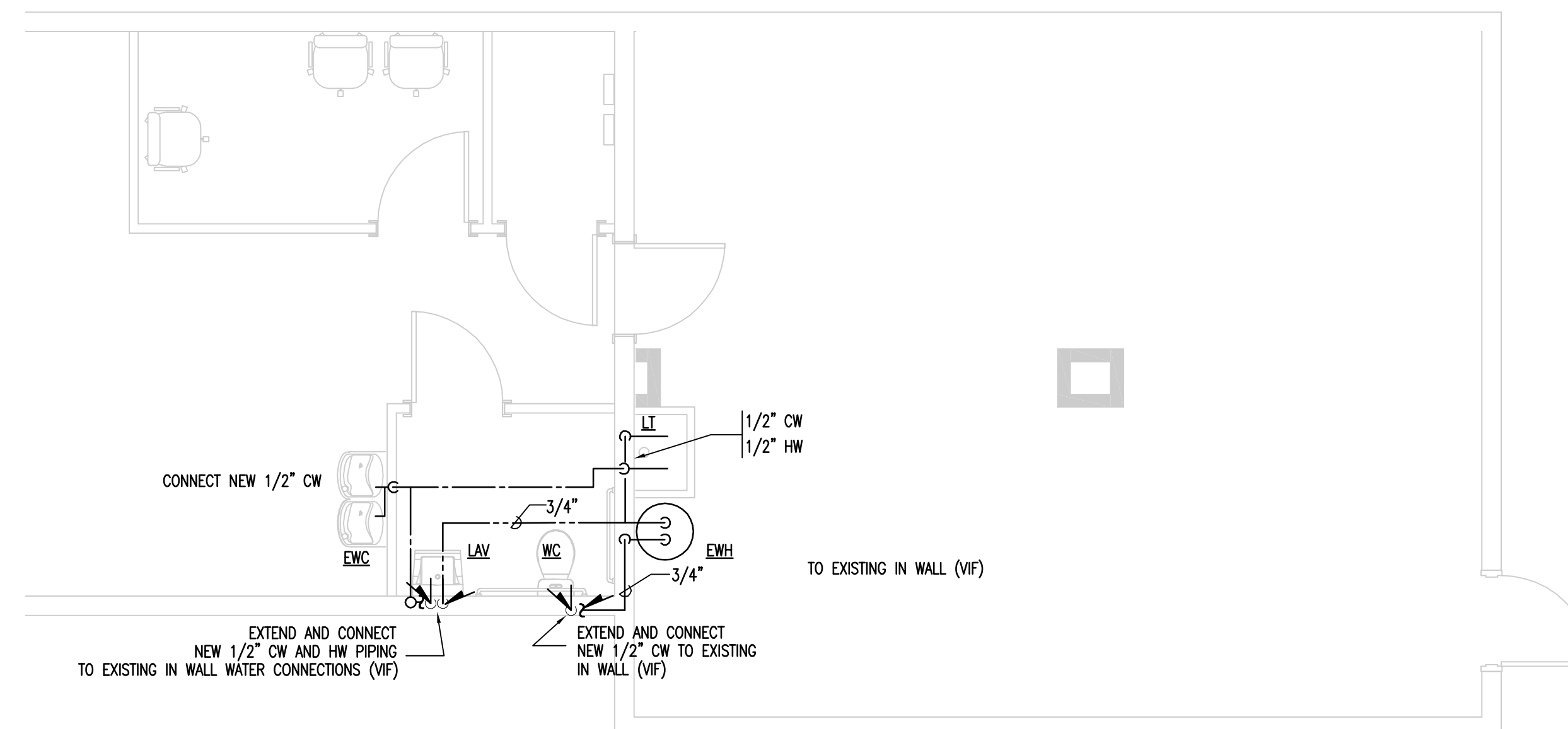


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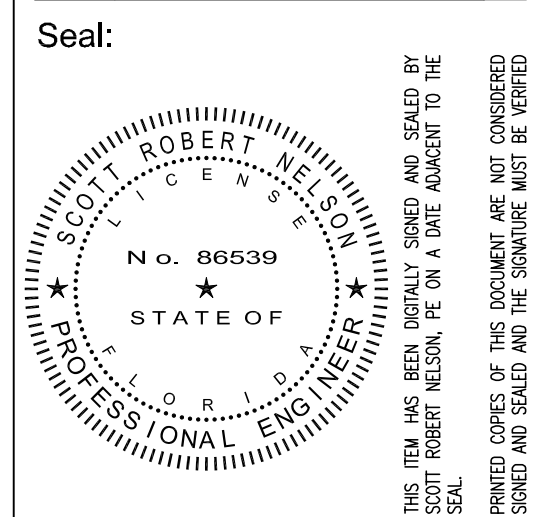


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SCALE: 1/4"=1'-0"



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



12/22/21  
SCOTT ROBERT NELSON, P.E.  
FL. LIC. No. 86539 EXP. 02-28-2023

### PLUMBING EXISTING AND PROPOSED FLOOR PLAN

P-1  
PERMIT DOCUMENTS

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Project No. 21037

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