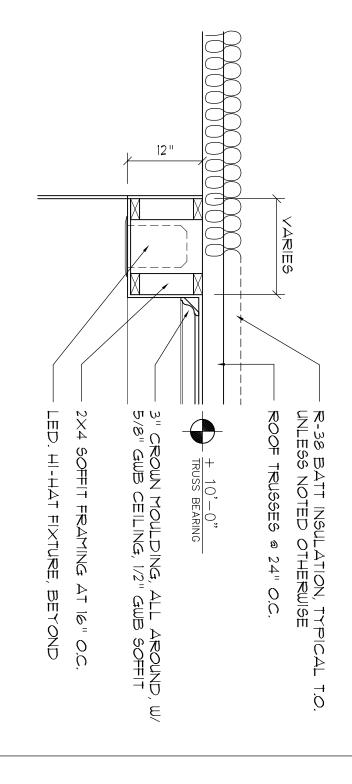


SCALE: 3/4" = 1'-0 (ABOYE BAT



DRAIN

COMBINA AND PRE

ATION TEMPERATURE ESSURE RELIEF

HOT WATER SUPPLY W/ HEAT TRAP

RELIEF VALVE

COLDYWATER

GATE VALVE

SCALE: 3/4" = 1'-0

 \equiv σ

0

0

 σ

-0

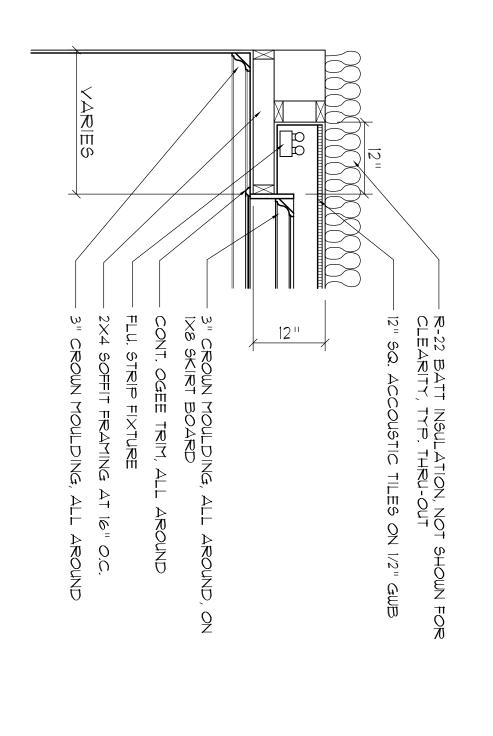
FLOOR

HEATING TYPICAL

 \Box

AQUAST,

aala 350F



0000 3/4= <u>^</u> **#** 0

 ϕ

INSTALL ONLY FIXTURES.

HIGH POWER FACTOR BALLASTS AT FLUORESCENT

ELECTRICAL PLAN NOTES

3 0

0

CONSULT THE ALL RECEPTICALS IN THE LIVING AREA SHALL BE ON ARCHAULT INTERRUPTER CIRCUITS (AFIC), PER NEC 210-12 WIRE ALL APPLIANCES, HYAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS. OWNER FOR THE NUMBER OF SEPERATE NES TO BE INSTALLED.

ALL SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS. ALL RECEPTICALS IN BATHROOMS, KITCHENS AND EXTERIOR LOCATIONS SHALL BE ON GROUND FAULT INTERRUPTER CIRCUITS (GFIC). NSTALLATION SHALL BE PER NAT'L. ELECTRIC CODE.

TELEPHONE, 1
DEVICES ON
DINECTIONS,
SECTIONS OF TELEVISION AND OTHER LOW VOLTAGE
OUTLETS SHALL BE AS PER THE OWNER'S
\$ IN ACCORDANCE W/ APPLICABLE
NEC-LATEST EDITION.

ELECTRICAL CONT'R SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADD'NS TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W ALL CKTS IDENTIFIED W CKT Nr., DESCRIPTION & BRKR, SERVICE ENT. ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RISER DIA. SHALL INCLUDE WIRE SIZES/TYPE & EQUIPMENT TYPE W/ RATINGS & LOADS.

CONTRACTOR SHALL PROVIDE I COPY OF AS-BUILT DWGS TO OWNER & I COPY TO THE PERMIT ISSUING AUTHORITY.

General Lighting/Recep 3532 sf x 3w = Washer Circuit Dishwasher Circuit Sm. Appliance Circuits (0% Demand Factor Loads: Dryer Wall Oven HVAC System (3,01 Heat Pum HVAC System Air Handler Refrigerator Refrigerator Freezer Clg. Fans (50 200m) Irrigation Pump (future) Pool Pump (future) Water Well Pump Tankless Water Heater Spares (6 0 400m) Sub-Total let 3KW @ 100% Bal. of KW @ 35% Sub-Total Load @ 15% DF Total Demand Load: Demand Factor Loads: 1500m) 18096.01 0.0000 33633.**Ø**w 795*0.0*m

(Z)

2000 000

 \bigcirc

ACCESSORY
ON MOTOR

ON DUCT BLOWER UNIT

 \bigcirc

 \bigcirc

M D M

18"

FINISH GRADE

 (ω)

(B) ALTERNATE LOCATION

OR PACKAGE UNIT

Z Z I

FEEDER 61ZE: 33633.0m / 240v = 140.14 amperes USE: 3 #2/0 THW w/ 1 #1 Cu GND / 2½" C.

<u>M</u>	PANEL	σ
LOCATION	PANEL "L": 200A - MLO - 120/240V - 1¢ - 4 WIRE 40 SLOT - FLUSH MOUNT	0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -
70 70	7 - 14 - 4 WIRE	0 - C 0
<u> </u>		***
<u>С</u>		

<u>\(\frac{\frac{1}{2}}{\frac{1}{2}} \)</u>	LOCATION	70 70 70 70 70 70 70 70 70 70 70 70 70 7	0 E E	L O A D
<i>∞</i>	LIGHTING/RECEPT.	₩ 4/170	- Σ Σ	10536W
w	DISHWASHITA	15/17 17		M009!
<u>2</u> -0	OM. KITOUTA APPLIANOTO	20A/IT	12NZ	4500E
3-14	CHILING HANS	IJ <u>\</u> \Z	 2 2 2	M 00 8!
Ę,	FUT. IRRIGATION FUMP	20A/IP	12 2 2	12 <i>0</i> 0 W
<u>o</u> .		\ <u>\</u> \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	14 2 2 2	12 <i>00</i> 0 W
00	EAGITA	20A/IP	- 2 ス ス	1500E
<u></u> Ø	TANKLEGG WATER LEATER	20A/2P	 2 2 2	12 <i>0</i> 0 W
20,21	WALL OVEN	50A/2P	0 N N N	8000 W
22,23	WATER WELL	20A/2F	12 N T	12 <i>00</i> W
4,25		30A/2P	Ö Z Z	7000m
0 2 1	HYAC CU	50A/2P	0 N N	3600W
28,29	HYAO AHU	20A/2P	12NZ	800 U
0		154/17 17	Σ Σ Σ	1200 W
31,32	FUT, POOL PUMP	2ØA/2™	12 2 2 3	12 <i>00</i> E
33-40	SPARES	ı	1	32 <i>00</i> W
7 1 1 1	TOTAL CONNECTED LOAD:			47696W

TYPICAL PANEL SCHEDULE: Electrician to proyide a final panel schedi as-built conditions & connected devices. LE BASED ON THE

ا 2		0 - 0	10		
70 ANEL	. "L": 200A - MLO - 120/240V - 1¢ - 4 WIRE 40 SLOT - FLUSH MOUNT	. \$ - \$			
<u>Ö</u> <u>M</u>	LOCATION	70 70 70 70 70 70 70 70 70 70 70 70 70 7	SIZIO 107 III	LOAD	
<i>∞</i>	LICHTIZO/MHOHDT.	15∆/15	Ξ Σ Σ	10596W	
۵	DISHEASHEN	154/10	- Σ Σ	1 <u>0</u> 00	
<u> </u>	SM. KITCHEN APPLIANCES	20A/I⊓	12 N N	47 <i>00</i> 5	
13-14	CHILING FANS	15/17 17/17	- ∑ ∑	1800 1800 1800	
₩ - -	FUT. IRRIGATION PUMP	20A/IP	12 2 3 4	12 <i>00</i> W	
<u>o</u> ,		i5Δ/ Τ0	Ξ Ζ Σ	12 <i>00</i> W	
$\overline{\omega}$	ELOTINA ELOTINA	20A/17	Ξ Σ Σ	1500 1500	
ق	TANKLESS WATER LEATER	20A/2P	1 2 2 2	12 00 W	
2 0 ,21	色なにて 0く用乙	50A/27	の	3000 E	

OR OUTLETS SHALL BE AS PER THE OWNERS DIRECTIONS, AND IN ACCORDANCE W/ APPLICABLE SECTIONS OF NEC - LATEST EDITION.

-DIP TUBE

TYPICAL LOAD COMPUTATIONS:
ELECTRICIAN TO CALCULATE ACTUAL LOAD FROM AS-BUILT
CONDITIONS & CONNECTED DEVICES.

	(3) MAIN DISCONNECT SI	(2)	IO" DEET, W/CONTINUC ENTRANCE CONDUCTO CONNECTIONS AT THE CONDUCTO SHALL BE ALLOWED.	
SHIMALOH HATRANCH GROUND: $5/8$ " IRON/STHEL ROD \times $8'-0$ " LONG AND/OF	MAIN DISCONNECT SWITCH FUSED OR MAIN BRIKR. WEATHERPROOF, U.L. LIST	METER ENCLOSURE, WEATHERPROOF, U.L. LISTED	18" DEEP, W/CONTINUOUS GROUND BONDING CONDUCTOR, SERVICE ENTRANCE CONDUCTORS SHALL NOT BE SPLICED EXCEPT THAT BOLTED CONNECTIONS AT THE METER. DISCONNECTING DEVICES AND PANEL SHALL BE ALLOWED.	SERVICE FEEDER ENTRANCE CONDUCTOR: 2 1/2" RIDGID CONDUIT, MIN.

- (b) (a) SERVICE ENTRANCE GROUND: 5/8" IRON/STEEL ROD X 8'-0" LONG AND/OR CONCRETE ENCASED FOUNDATION STEEL REBAR X 20'-0" LONG, GROUNDING CONDUCTOR SHALL BONDED TO EACH PIECE OF SERVICE/ENTRANCE EQUIPMENT, AND SHALL BE SIZED PER ITEM #5 BELOW. MAIN BROKR WEATHER. OF, U.L. LISTED
- 200 AMPERE SERVICE: 3-#2/0 USE -HOUSE PANEL (PNL), U.L. LISTED, SIZED PER SCHEDULE CU. 1-#4 - CU GND, 2" CONDUIT
- EQUIPMENT DISCONNECT SWITCH: NON-FUSED, IN WEATHERF SIZE ACCORDING TO PANEL SCHEDULE LOADS. **ENCLOSURE**

 \bigcirc

 \bigcirc

PROVIDE GROUND BOND WIRE TO METAL THE SERVICE GROUND CONDUCTOR.

PIPING, SIZE IN

ACCORDANCE WITH

 \mathcal{O}^{n} α N 0

(!!! 7 O $\boldsymbol{\omega}$ U $Q_{\mathbb{N}}$ **(** O

SUB-CONTRACTORS PROVIDING ELECTRICAL MATERIALS AND INSTALLATION SHALL BE SUBJECT TO THE PROVISIONS OF NOTES I THRU 6. SHION 'n NSTALL GFI BREAKERS OF DEVICES AT ALL BATHROOM, REST-ROOM, KITCHEN, GARAGE AND EXTERIOR RECEPTACLES AND AS NOTED ON THE DRAWINGS. <u>o</u> $\boldsymbol{\Xi}$

DO NOT SCALE THE ELECTRICAL DRAWINGS, REFER TO ARCHI-TECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALEQUIPMENT. CONFIRM WITH OWNER.

NSTALL ALL ELECTRICAL WORK IN CONFORMANCE WITH THE NECLATEST EDITION, AND IT'S AMENDMENTS AS ADOPTED BY THE PERMIT ISSUING AUTHORITY AT THE TIME OF CONSTRUCTION.

'n

- GROUNDING: GROUND ALL MAIN DISCONNECTS TO STANDARD GROUND ROD(S) AND TO COLD WATER SUPPLY AS PER ARTICLE 250 OF NEC-LATEST EDITION.
- Ώ NSTALL ONLY COPPER WIRING ON THIS PROJECT: THW, TW, THWN, THHN OR NM CABLE, UNLESS NOTED OTHERWISE. ALL CONDUCTORS #10 & SMALLER MAY BE SOLID. ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED TYPE.
- COLOR CODE MU WHITE, GROUND -PROVIDE CONTINUITY OF NEUTRAL ON MULTI-BRANCH CIRCUITS BY SPLICING AND BRINGING OUT A TAP, ASSURING NO OPENINGS OF NEUTRAL IN REPLACEMENT OF A DEVICE. ULTI-CIRCUIT WIRING AS FOLLOWS: NEUTRAL -GREEN, LINE - ALL OTHER COLORS.
- $\overline{\omega}$ NSTALL NON-FUSED DISCONNECT SWITCHES AT ALL PIECES OF ELECTRICAL EQUIPMENT LOCATED WHERE SAID EQUIPMENT IS NOT VISIBLE FROM THE CIRCUIT BREAKER THAT PROTECTS IT: SIZE IN ACCORD WITH THE LOAD. ALL DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK-MAKE - QUICK-SHALL BE AS REQ'D FOR EXPOSURES SHALL BE AS REQ'D FOR EXPOSURES. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC WITH OVER-LOAD RELAYS IN EACH HOT LEG. NSTALL ONLY THOSE ELECTRICAL DEVICES THAT BEAR A "UL" OR OTHER RECOGNIZED TESTING LAB LABEL. ALL MATERIALS SHALL BE NEW.
- DLATE DISSIMILAR CONDUIT AND TUBING METALS FROM SOIL, TER AND GAS PIPING AND OTHER BUILDING MATERIALS WHERE AMAGE BY FRICTION OR ELECTROLYSIS MAY OCCUR, EXCEPT ERE ELECTRICAL GROUND IS PROVIDED.
- OUTLET BOXES SHALL BE PRESSED STEEL OR PLASTIC OR ALL DRY LOCATIONS. FOR WET LOCATIONS, CAST ALLOY WITH THREADED HUB OUTLET BOXES SHALL BE INSTALLED. FURNISH AND INSTALL ALL ELECTRICAL DEVICES AND ITEMS REQUIRES FOR A COMPLETE, OPERATING SYSTEM, PROVIDING FUNCTIONS AS DETAILED IN THE PLANS (AND SPECS).
- $\overline{\omega}$
- 0,2 2 MINOR DETAIL OF THE CONSTRUCT
- 22. ALL RACEWAYS BELOW GROUND S "URNISH AND INSTALL DISCONNECT SWITCHES AND WIRING FOR HVAC SYSTEM AS PER MANUFACTURER'S RECOMMENDATIONS. CONTROLS ARE TO BE SUPPLIED BY THE HVAC CONTRACTOR, AND CONNECTED BY THE ELECTRICAL CONTRACTOR.

 $\overline{\omega}$

9

- HOT CHECK ALL SYSTEMS WITH THE OWNER'S REPRESENTATIVE PRESENT TO VERIFY PROPER FUNCTION PRIOR TO C.O.
- ALL PANEL SCHEDULES SHALL BE FULLY FILLED OUT AND SHALL BE TYPEWRITTEN, EA. CIRCUIT SHALL BE CLEARLY IDENTI-FIED A TO WHAT IS INCLUDED ON SAID CIRCUIT.
- AALL BE A MINIMUM OD 3/4"
- COORDINATE ALL WORK THROUGH GC TO AVOID CONFLICTS. CO-ORDINATE WITH HYAC CONTRACTOR AND ELECTRONICS SYSTEMS CONTRACTORS SO THAT A COMPLETE, FUNCTIONING SYSTEM IS NSTALLED, IN EACH CASE, WITH NO EXTRA COST TO THE OWNER.
- EMERGENOY LIGHTING AND EXIT SIGNS, IF INDICATED ON THE PLANS, SHALL BE WIRED PER NEC 100-12F.

- ALL CIRCUIT BREAKERS, TWO AND THREE POLE, SHALL BE COMMON TRIP, NO TIE HANDLES OR TANDEMS SHALL BE ACCEPTABLE.
- RAWINGS TO SHOW EVERY TON.

29

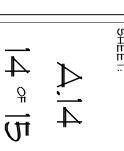
8,

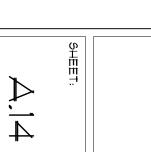
- 23.

- REQUIREMENTS OF THE POWER COMPANY & TELEPHONE COMPANY.

- 00 25. ELECTRICAL CONTRACTOR SHALL VERIFY ALL COMPONENTS FOR ALL ELECTRICAL APPLICATIONS & DETERMINE THE CORRECTNESS OF SAME. ANY DISCREPANCY SHALL BE REPORTED TO THE OWNER PRIOR TO FABRICATING ANY MATERIALS, ORDERING COMPONENTS OR DOING ANY WORK. ALL FUSES, UNLESS NOTED OTHERWISE ON THE DRAWINGS, SHALL BE CURRENT LIMITED TYPE (C.L.) RATED 200,000 AIC.
- CIRCUITS ON PANEL SCHEDULE (AND PLANS) ARE TO DETERMINE LOAD DATA AND SIZE. THE CONTRACTOR SHALL PROVIDE CIRCUITS AND ROUTING OF CONDUITS AND WIRING TO SUIT JOB CONDITIONS, AND BALANCE THE JOB, THROUGHOUT.
- CHECK EQUIPMENT FOR PROPER VOLTAGE, PHASE AND AMPERAGE RATING PRIOR TO CONNECTION TO CIRCUITS.
- ELECTRICAL EQUIPMENT AIC RATING AND FEEDER SIZE SHON THE PLANS ARE DESIGNED FOR MAX. AVAILABLE FAUL CURRENT AND MAX. ALLOWABLE VOLTAGE DROP, RESPEC WHEN CONDUIT RUNS EXCEED 200 FEET, PULL BOXES SHALINSTALLED SO THAT NO PULL EXCEEDS THIS DISTANCE. PANEL BOARDS SHALL BE CIRCUIT BREAKER TYPE, VERINUMBER AND SIZES OF CIRCUITS.
- Digitally signed by N. E. GEISLER
 DN: CN = N. P. GEISLER C #US
 O = AR0007005 OU = ARCHITECT
 Date: 2023.09.14 14:13:58 -05'00'

1R000100





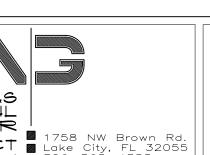


09122023

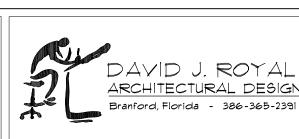














CUSTOM DESIGNED HOME FOR: B utl er ro S a COUNTY, FLORIDA D ca ata E trí C 8