INT/EXT. ALTERATION(EXIST'G.)

A.- GENERAL LIGHTIN LOAD
1276 SF. @ 3W / SF = 3828 WATTS

B.- TWO SMALL APLIANCE CIRCUITS X 1,500 = 3,000 WATTS.

C.- FIXED APPLIANCES :

RANGE	12,000	WATTS.
REFRIGERATOR	1,000	"
DISHWASHER	1,200	"
WASHER	1,500	"
DRYER	5,000	"
WATER HEATER	4,500	"
	32028	"

CONNECTED LOAD LESS A/C = 22028 WATTS

10,000 W @ 100 % = 10,000 WATTS

REST 22028 W @ 40 % = 8811

A/C (or heating) @ 100% = 10.000 "

DEMAND LOAD = 28811 / 240 WATTS = 120 AMPS @ 240/120 V.

SERVICE SIZE = 150 AMPS.

D.- NEUTRAL LOAD

LIGTHING, SMALL APPLICANCE & WASHER 8346 WATTS.

FIRST 3,000 W @ 100% = 3.000 WATTS.

REST 5346 @ 35% = 1871 WATTS.

RANGE X 0.7 % = 8400 "

DRYER X 0.7 % = 3500 "

GFI OTHER 120V APPLIANCE = 3000 "

TOTAL NEUTRAL WATTS = 19771 = 82 AMPS.

ELECTRICAL NOTES

1.- CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT A COMPLETE ELECTRICAL INSTALLATION IN ACCORDANCE WITH THESE DRAWINGS.
2.- COMPLY WITH THE N.E.C. AND THE Fla. BUILDING CODE 2010
3.- PROVIDE EMPTY CONDUITS AS REQUIRED FOR TELEPHONE SYSTEM
4.- OBTAIN ALL PERMITS FOR WORK UNDER THIS CONTRACT.
5.- PROVIDE TEMPORARY POWER AND LIGHT OUTLES FOR USE BY OTHER TRADES.
6.- PROVIDE ALL REQUIRED CONNECTIONS FOR OTHER TRADES.
7.- COORDINATE ALL OUTLET LOCATIONS WITH BUILDING ARCHITECTURAL FEATURES.
8.- CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS.
9.- ALL CABLE SHALL BE COPPER.
10.- INDOOR CONDUIT SHALL BE EMT.
11.- OUTDOOR UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC. UNDER PAVED AREAS IT SHALL BE ENCASED IN CONCRETE. MINIMUN COVER SHALL 18 INCHES.
12.- ALL MOUNTING HARDWARE SHALL BE BY CONTRACTOR.

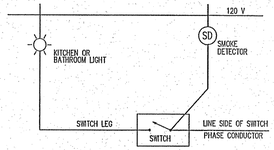
NOTES:

1.- ALL SMOKE DETECTORS MUST HAVE BATTERY BACK-UP AND BE INTERCONNECTED,

2.- ALL SMOKE DETECTORS TO BE FED FROM BATH OR KITCHEN LIGHTING CIRCUITS, AHEAD OF ALL SWITCHES,

3.- ALL BEDROOM RECEPTACLES OUTLETS SHALL BE CONNECTED TO AN ARC FAULT INTERRUPTER C.B.

4/1/13
① Comply all notes above
② Smoke detector in hallway does not meet furniture clearance



SMOKE DETECTOR CONNECTION DETAIL

NOTE: INSTALL SMOKE DETECTORS INSIDE BEDROOMS (AS SHOWN ONLY) INTERCONNECTED TO EXIST'G BATH LT.

2008 NEC- 210.12(B)
PROVIDE ARC-FAUFT PROTECTION FOR ALL 15 & 20A BRANCH CRT. OUTLETS IN BEDROOM AREAS INCLUDING RECEPTS., LTG., SMOKE DETECTORS & CLOSET OUTLETS TYPICAL FOR ALL

2008 NEC- 406.11
FOR ALL 15A & 20A WALL AREAS TO BE TAMPER RESISTANT RECEPT'S. Sect.210.52

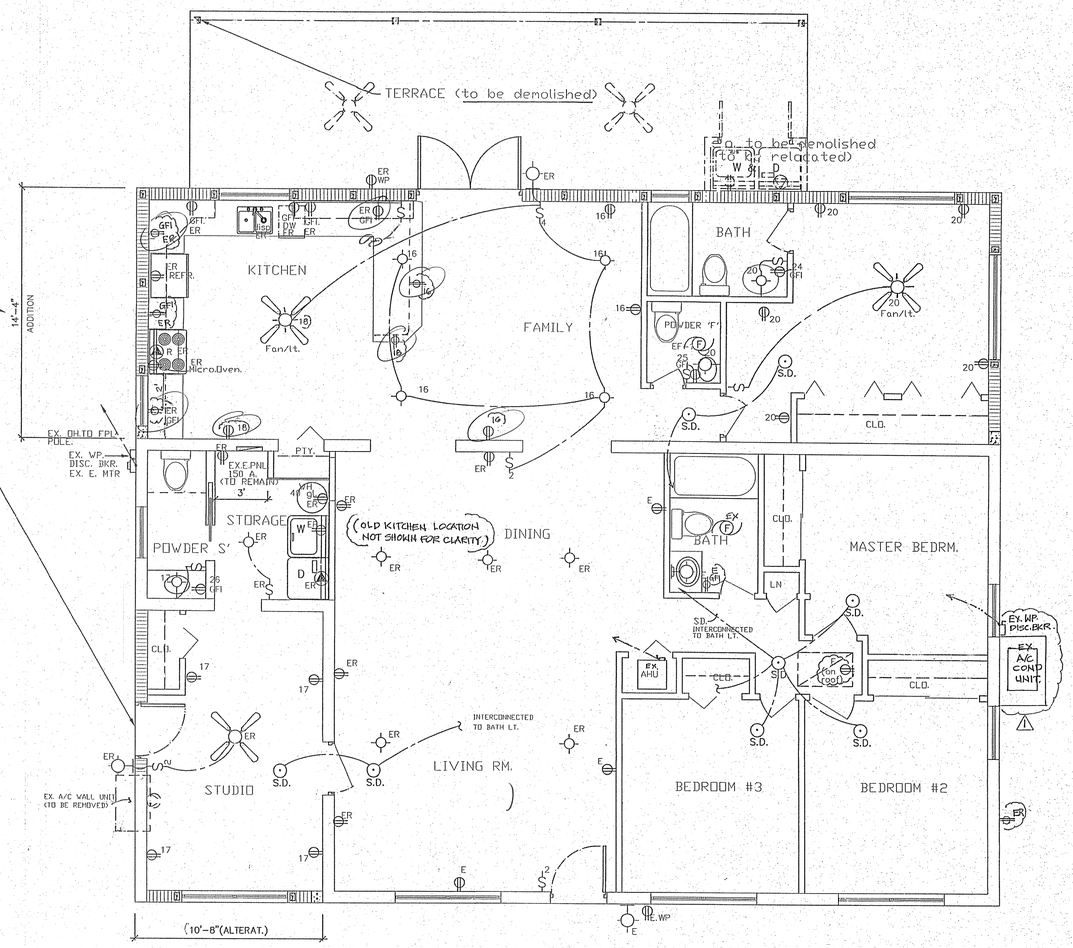
Remove #14 wire below stapled

ELECT LOAD CALCULATION (NEW ADDITION & STUDIO)

CIRC.	DESCRIPTION:	POLE/TRIP	VA.	VOLT.	WIRE	REMARK
C-17	RECEPTACLE STUDIO	1/20	800	120	12	
C-16,18,20	GRAL LTG & RECEPTACLE	1/20	2400	120	12	
C-24	GFI (M.BATHRM)	1/20	800	120	12	DEDICATED
C-25,26	GFI (POWDER'S 'F' & 'S')	1/20	1600	120	12	DEDICATED
C-27-30	SPACES					

Note
Remove #14 wire for switch leg in ceiling and add a gang box in panel. Not at spare so neutral are not double up in panel.
Mat 4/16/13

NEW TOTAL : 5600 / 240 = 23 A.
EXIST. LOAD : 28810 / 240 =120 A.
TOTAL LOAD: 120 A. (EXIST.)+23 A. (NEW) = 143 A.
EXIST E. PNL. 150 A. HAS ENOUGH CAPACITY TO HANDLE NEW CIRCUITS.(TO REMAIN)



ELECTRICAL PLAN

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

EXHAUST FAN SCHEDULE

EF-1 SHALL BE BROAN MODEL No 688 @ 120V/1 PH/60 HZ. 1/4" SP 50 CFM W/BACKDRAFT DAMPER.

ELECTRICAL LEGEND

	LAMP
VP	VAPOR PROOF LAMP
	DUPLEX OUTLET (110V AT 8" AFF. TO CENTER)
WP	WEATHERPROOF DUPL. OUTLET (110V AT 12" AFF.)
GFI	GFI 110V DUPLEX OUTLET.
A	SPECIAL PURPOSE CONNECTION
PH	TELEPHONE OUTLET AT 8" AFF. TO CENTER
	SWITCH AT 48" AFF.TO CENTER.
3	3-WAY SWITCH AT 48" AFF. TO CENTER.
	CEILING MOUNT LIGHT FIXTURE
F	EXHAUST FAN
	WALL MOUNT LIGHT FIXTURE
	A/C DISCONNECTING SWITCH
	ELECTRICAL PANEL
	CEILING FAN
S.D.	SMOKE DETECTOR
	T.V. OUTLET
E.	EXISTING CIRCUIT
E.R.	EXISTING RELOCATED

SCOPE OF WORK

INT./EXT. ALTERATION GARAGE CONVERT TO STUDIO & ADDITION 1 BEDRM.,1 BATH,2 POWDERS, KITCHEN RELOC. & FAMILY RM

Miami-Dade County Department of Permitting, Environment and Regulatory Affairs - Job Copy
Permit 10425 SW 42 TERRA, MIAMI, FL 33165 Regulatory And Economic Resources
0000749812 - 7/6/2015 8:28:19 AM
0000749812 - 7/6/2015 4:26:08 PM
E-1-06012012.PDF
E-1-02012015.PDF
Examiner Date Time Stamp Disp. Trade Stamp Name
Stephen Kovach 6/4/2012 8:27:28 AM A ELEC Approved
John Jordan 2/9/2015 3:52:43 PM A ELEC Reissued

REVISIONS:	BY:
05-18-12	JV

SEAL: 05-18-12

RAUL R. SORA
10250 SW. 56 STREET
MIAMI, FLORIDA . 33165
TEL. 305-887-1409
REGISTER ARCHITECT
AR-0007179

RS

PROJECT: RESIDENCE INTERIOR /EXT. ALTERATION
OWNER: BRENDA LEE SUAREZ
ADDRESS: 10425 SW 42 TERRA, MIAMI, FL 33165

DATE: 01-25-11
SCALE: SHOWN
DRAWN: JV
JOB: 03-12
SHEET: E-1