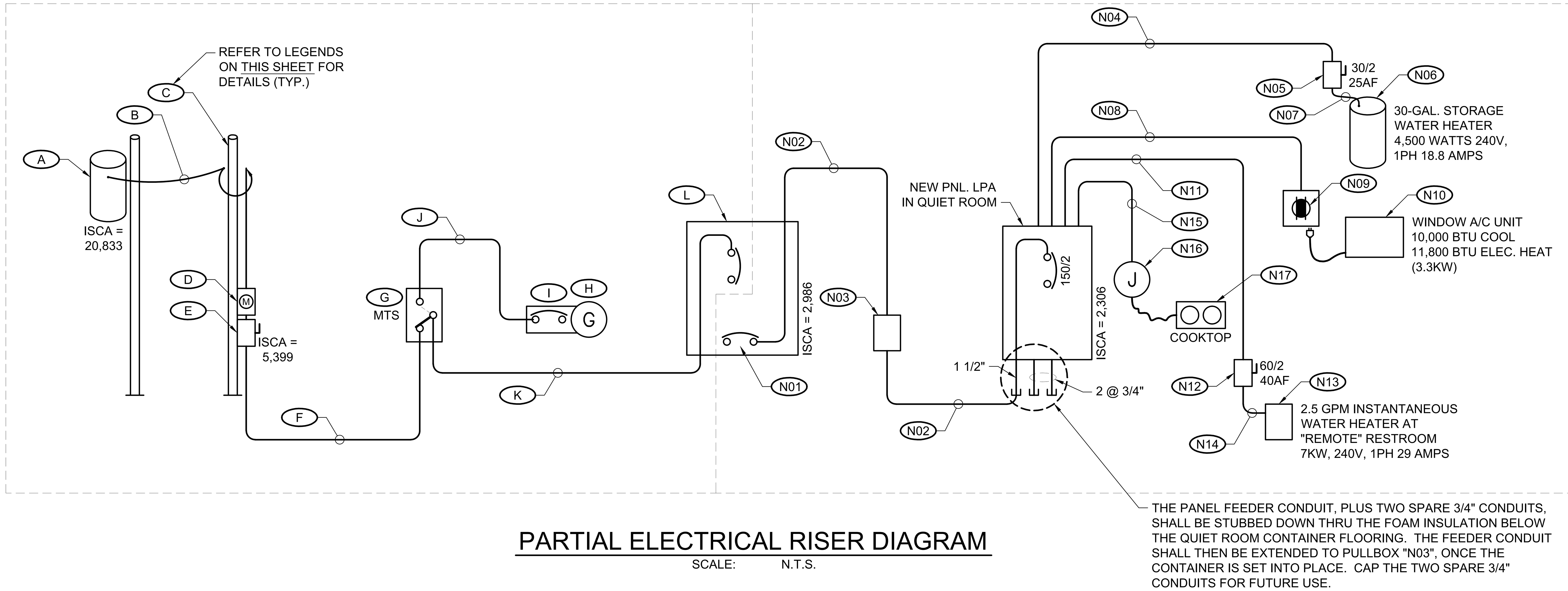
NEW EQUIPMENT LEGEND	
N01	NEW BRANCH CIRCUIT BREAKER INSTALLED IN EXISTING SPACE. REFER TO PANEL SCHEDULES FOR DETAILS.
N02	3#2+#4 GND., 1 1/2" C.
N03	12" W. x 16" L. x 6" D. NEMA 4X STAINLESS STEEL PULLBOX. DO NOT MAKE TAPS IN THIS BOX. THE QUIET ROOM FEEDER SHALL BE ONE CONTINUOUS PIECE.
N04	2#8+#10 GND., 3/4" C.
N05	30/2 FUSIBLE GENERAL DUTY DISC. SWITCH WITH VISIBLE BLADES (NOT A PULLOUT). PROVIDE 25 AMP FUSES RATED, 250 V, 200 KAIC, DUAL ELEMENT, TIME DELAY WITH BLOWN FUSE INDICATOR WINDOW
N06	30-GALLON STORAGE TYPE WATER HEATER
N07	2#10+#10 GND., 3/4" C., GREENFIELD
N08	2#8+#10 GND., 3/4" C.
N09	30-AMP, 250 VOLT FLUSH RECEPTACLE FOR WINDOW HVAC UNIT. NEMA TYPE 30-6R.
N10	WINDOW HVAC UNIT WITH ELECTRIC HEAT, 240 VOLTS
N11	3#8+#10 GND., 3/4" C.
N12	60/2 FUSIBLE GENERAL DUTY DISC. SWITCH WITH VISIBLE BLADES (PULLOUT TYPE OKAY). PROVIDE 40 AMP FUSES RATED, 250 V, 200 KAIC, DUAL ELEMENT, TIME DELAY WITH BLOWN FUSE INDICATOR WINDOW
N13	INSTANTANEOUS WATER HEATER UNDER SINK COUNTER
N14	3#10+#10 GND., 3/4" C.
N15	3#10+#10 GND., 3/4" C.
N16	4" SQUARE JB UNDER COUNTER FOR COOKTOP CONNECTIONS
N17	(2) BURNER COOKTOP, 240V, 1PH, 3500 W TOTAL

EXISTING EQUIPMENT LEGEND	
A	POWER CO. TRANSFORMER AND WOOD POLE, 120/240 VOLT, 1PH, 3W SERVICE 100 KVA = 416 FLA. IF 2% IMP., ISCA = 20,833A
B	POWER CO. OVERHEAD SERVICE DROP
C	WOOD SERVICE DROP POLE
D	POWER CO. METER AND METER PAN, 120/240 VOLT, 1PH, 3W SERVICE 200 AMPS
E	MAIN FUSIBLE DISCONNECT SWITCH, 200 AMPS
F	UNDERGROUND FEEDER TO BLDG. ELECTRICAL EQUIPMENT
G	MANUAL TRANSFER SWITCH (MTS) INSIDE PUMP STATION BLDG. 3 POLE, 250 VOLT, 200 AMPS
H	DIESEL GENERATOR SET INSIDE PUMP STATION BLDG., 120/240 VOLTS, 1PH, 3W
I	MAIN CIRCUIT BREAKER ON GENERATOR SET, 175 AMPS
J	GENERATOR SET FEEDER TO MTS.
K	MTS LOAD FEEDER TO DISTRIBUTION PANEL
L	DISTRIBUTION PANEL, 200 AMPS MCB 120/240 VOLTS, 1PH, 3W

NOTE:
1. ALL WIRE SIZES NOT SPECIFICALLY CALLED OUT SHALL BE 2#12+#12 GND., 3/4" C.
2. THERE SHALL BE NO MULTIWIRE BRANCH CIRCUITS. PROVIDE SEPARATE NEUTRAL FOR ALL 120 VOLT CIRCUITS. IDENTIFY NEUTRAL WITH COLOR CODE TO MATCH PHASE CONDUCTORS.
3. ALL DEVICES SHALL BE IVORY.
4. ALL DEVICE PLATES SHALL BE STAINLESS STEEL.



PARTIAL ELECTRICAL RISER DIAGRAM

SCALE: N.T.S.

NEW PANEL SCHEDULE

PANEL NAME LPA
LOCATION INSIDE BLDG.
FOUND ON DWG. NO.
FED FROM EXISTING DISTRIBUTION PANEL
AVAILABLE FAULT CURRENT <10,000 SYM. AMPS
PANEL AIC RATING 10,000
● FULLY RATED
○ SERIES RATED FOR ____ KAIC FROM ________
FEEDER 3 # 2 + #4 GND., 1-1/2" C.
● FEEDER PROTECTED BY OVERCURRENT DEVICE

VOLTAGE ● 240/120V, 1Ø 3W ○ 208/120V, 1Ø 3W
MAINS, 150 AMP
● FACTORY BOLT-ON MAIN CIRCUIT BREAKER, RATED 22KAIC
○ SHUNT TRIP MAIN CB
○ MAIN LUGS ONLY
○ UL LISTED FEED-THRU LUGS
○ SURGE ARRESTOR WIRED TO LOAD SIDE OF MAIN, 2 POLE, 175V, JOSLYN Z2-175-0A, OR EQUAL
NEUTRAL ● 100% ○ 200%
MOUNTING ○ SURFACE ● FLUSH

ENCLOSURE ● NEMA1 ○NEMA3R ○NEMA12 ○NEMA4X STAINLESS STEEL
● LOCKABLE COVER
FEED ● TOP ○ BOTTOM
BRANCHES ○ BOLT-ON, PANELBOARD CONSTR. ● STAB-IN, LOAD CENTER CONSTR.
● PANEL HAS FRONT ACCESS ONLY
● ALL COPPER BUSSING
● FURNISH COPPER GROUND BAR KIT
○ ALSO FURNISH ADDITIONAL ISOLATED GROUND BAR KIT
○ SERVICE ENTRANCE LABEL
● PANEL NAMEPLATE, 2"x4" ENGRAVED PLASTIC LAMINATE USE 1/4" LETTERING FOR PANEL NAME, ON 1 LINE USE 1/8" LETTERING FOR VOLTS, AMPS, WHERE FED FROM, MO./YR. INSTALLED, ON 4 LINES
● BLACK FIELD, WHITE LETTERS
○ RED FIELD, WHITE LETTERS

CKT. #	# OF POLES	TRIP AMPS	LOAD DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS A	VOLT-AMPS B	LOAD DESCRIPTION	TRIP AMPS	# OF POLES	CKT. #
1	2	20	2 ELEMENT COOKTOP, 3.5KW	1800		500		LIGHTS	20	1	2
3	—	—	— —		1800		500	REFRIGERATOR	20	1	4
5	2	30	ROOM AIR CONDITIONER W/ 3.3KW HEATER	2000		1500		COFFEE POT	20	1	6
7	—	—	— —		2000		1500	MICROWAVE	20	1	8
9	2	30	30 GALLON STORAGE TYPE WATER HEATER, 4.5KW	2300		1500		BATH HEATER FAN	20	1	10
11	—	—	— —		2300		1000	RECEPTACLES	20	1	12
13	2	45	2.5 GPM INSTANTANEOUS TYPE WATER HEATER	3500		1000		RECEPTACLES	20	1	14
15	—	—	— —		3500			RECEPTACLES	20	1	16
17	2	30		1500				RECEPTACLES	20	1	18
19	—	—			1500				20	1	20
21	2	20		2000					20	1	22
23	—	—			2000				20	1	24
25	2	20		1000		500		CAMERA CABINET	20	1	26
27	—	—			1000				20	1	28
29	1	20	SEWAGE GRINDER / LIFT PUMP	1500				SPARE	15	1	30

SUBTOTAL ODD SIDE
SUBTOTAL EVEN SIDE
SUBTOTAL ODD SIDE
FEED-THRU LUG LOAD — —
TOTAL CONN. LOAD
FROM PANEL ____
= ________ KVA
= ________ AMPS

REMARKS:
1. "30 CIRCUITS" MEANS 30 FULL-SIZED BREAKER POSITIONS. THERE SHALL BE NO PIGGYBACK, MINIATURE, NOR ANY HALF-HEIGHT BREAKERS.

PNLSCH02 ●
01-30-12

EXISTING PANEL SCHEDULE

PANEL NAME P
LOCATION PUMP STATION BLDG.
FOUND ON DWG. NO.
FED FROM MANUAL TRANSFER SWITCH
AVAILABLE FAULT CURRENT ________ SYM. AMPS
PANEL AIC RATING 10,000
● FULLY RATED
○ SERIES RATED FOR ____ KAIC FROM ________
EXISTING PANEL IS SQ. D. CAT. #QBM-43844
FEEDER 3 # 1/0 + #4 GND., 2" C.
○ FEEDER PROTECTED BY OVERCURRENT DEVICE

VOLTAGE ○ 480/277V, 3Ø 4W, WYE ○ 208/120V, 3Ø 4W, WYE ● 240/120V, 3Ø 4W, DELTA W/BØ "STINGER"
MAINS, 150 AMP
● FACTORY MAIN CIRCUIT BREAKER
○ SHUNT TRIP MAIN CB
○ MAIN LUGS ONLY
○ UL LISTED FEED-THRU LUGS
○ MAIN FUSIBLE SWITCH, FURNISH FUSES: ≤ 600A, CLASS RK5, >600A, CLASS L, ALL RATED 200,000 AIC
○ LIGHTNING ARRESTOR WIRED TO LOAD SIDE OF MAIN, 3 POLE, 650V, JOSLYN Z3-650-0A, OR EQUAL
NEUTRAL ● 100% ○ 200%
MOUNTING ○ SURFACE ○ FLUSH

ENCLOSURE ● NEMA1 ○NEMA3R ○NEMA12 ○NEMA4X STAINLESS STEEL
○ LOCKABLE COVER
FEED ● TOP ○ BOTTOM
BRANCHES ○ BOLT-ON, PANELBOARD CONSTR. ● STAB-IN, LOAD CENTER CONSTR. ○ FUSIBLE SWITCHES W/ CLASS R FUSE REJ. CLIPS, FURNISH ALL FUSES, CLASS RK5, 200,000 AIC
PANEL HAS FRONT ACCESS ONLY
ALL COPPER BUSSING
FURNISH COPPER GROUND BAR KIT
○ ALSO FURNISH ADDITIONAL ISOLATED GROUND BAR KIT
○ SERVICE ENTRANCE LABEL
○ PANEL NAMEPLATE, 2"x4" ENGRAVED PLASTIC LAMINATE USE 1/4" LETTERING FOR PANEL NAME, ON 1 LINE USE 1/8" LETTERING FOR VOLTS, AMPS, WHERE FED FROM, MO./YR. INSTALLED, ON 4 LINES
○ BLACK FIELD, WHITE LETTERS
○ RED FIELD, WHITE LETTERS

CKT. #	# OF POLES	TRIP AMPS	LOAD DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD DESCRIPTION	TRIP AMPS	# OF POLES	CKT. #
1	1	20	EXISTING LOADS							EXISTING LOADS	20	1	2
3	1	20									20	1	4
5	1	20									20	1	6
7	1	20									20	1	8
9	1	20									20	2	10
11	1	20									—	—	12
13	2	20									20	2	14
15	—	—									—	—	16
17			SPACE ONLY							SPACE ONLY			18
19													20
21													22
23													24
25	3	20	EXISTING LOADS							EXISTING LOADS	60	3	26
27	—	—									—	—	28
29	—	—									—	—	30
31	3	30								QUIET ROOM PANEL	90	3	32 * NEW *
33	—	—									—	—	34
35	—	—									—	—	36
37			SPACE ONLY							EXISTING LOADS	70	3	38 REMARKS #1 & 2
39			SPACE ONLY								—	—	40
NEW 41	1	20	RESTROOM ROOFTOP RV A/C								—	—	42

TRIP AMPS = FUSE SIZE IF FUSIBLE SWITCHES
SUBTOTAL ODD SIDE
SUBTOTAL EVEN SIDE
SUBTOTAL ODD SIDE
FEED-THRU LUG LOAD
TOTAL CONN. LOAD
FROM PANEL ____
= ________ KVA
= ________ AMPS

REMARKS:
1. * INSTALL A NEW 90/3 CIRCUIT BREAKER RATED FOR "120/240" VOLT LOADS. A CB MARKED ONLY FOR "240" VOLT APPLICATIONS IS NOT ACCEPTABLE. USE ONLY PHASES "A" AND "C" TO POWER THE NEW QUIET ROOM 1-PHASE PANEL. DO NOT MAKE ANY CONNECTION TO THE "B" PHASE "STINGER" LEG.
2. VERIFY THAT THE "STINGER" LEG IS PRESENTLY CONNECTED TO THE "B" PHASE OF THIS PANEL. NOTIFY THE ENGINEER IF IT IS NOT.

CADD FILE NAME:

REVISIONS		
DATE:	REMARKS:	APP'D

These plans and specifications have been prepared by me or under my close personal supervision, and to the best of my knowledge and belief, they meet all applicable codes and ordinances. I will (will not) supervise the work.
Bruce D. Barton
BRUCE D. BARTON, # 18286
Date

STATE OF LOUISIANA — BRUCE D. BARTON — REG. No. 18286 — REGISTERED PROFESSIONAL ENGINEER — IN ELECTRICAL ENGINEERING
Bruce D. Barton 10/4/2012

ALL SOUTH CONSULTING ENGINEERS, L.L.C.
652 PAPWORTH AVENUE
METAIRIE, LA 70005
(504) 322-2783

DESIGNED BY: RAC
DRAWN BY: EAO
CHECKED BY: RAC
DATE: 10/04/2012
SCALE: AS SHOWN
JOB NO. 025-006-01

PLAQUEMINES PARISH QUIET ROOMS PACKAGE NO. 2
DIAMOND PUMP STATION, HAYES PUMP STATION, GRAND DELIARD PUMP STATION, AND DUVIC PUMP STATION
DUVIC PUMP STATION

ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULES

SHEET NO. DV-E3