

Facilities Management

1112 Manatee Avenue West  
Suite 803, P.O. Box 1000  
Bradenton, Florida 34206

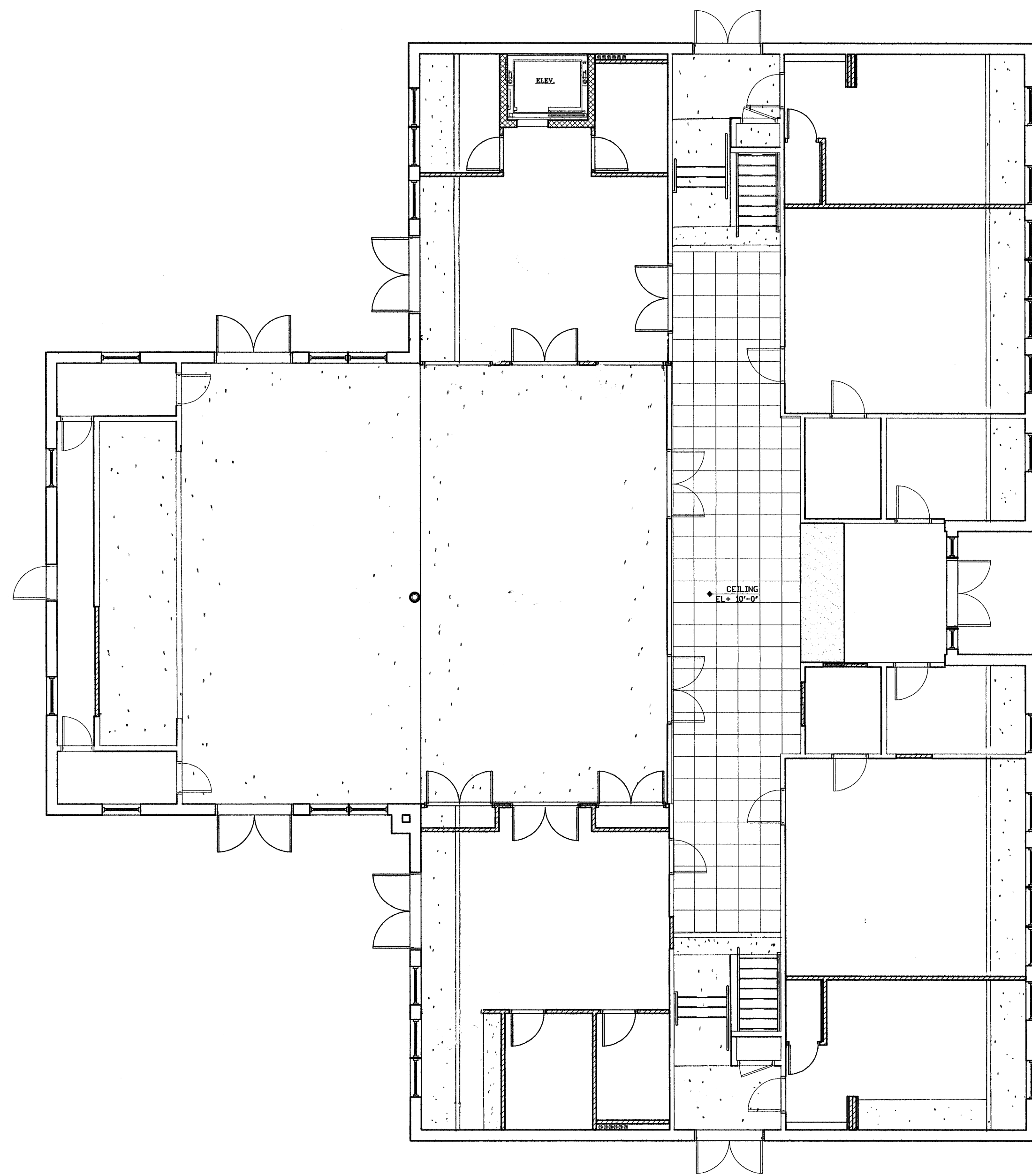
(941) 748-4501  
FAX (941) 742-5880

FLOOR PLAN KEY NOTES:

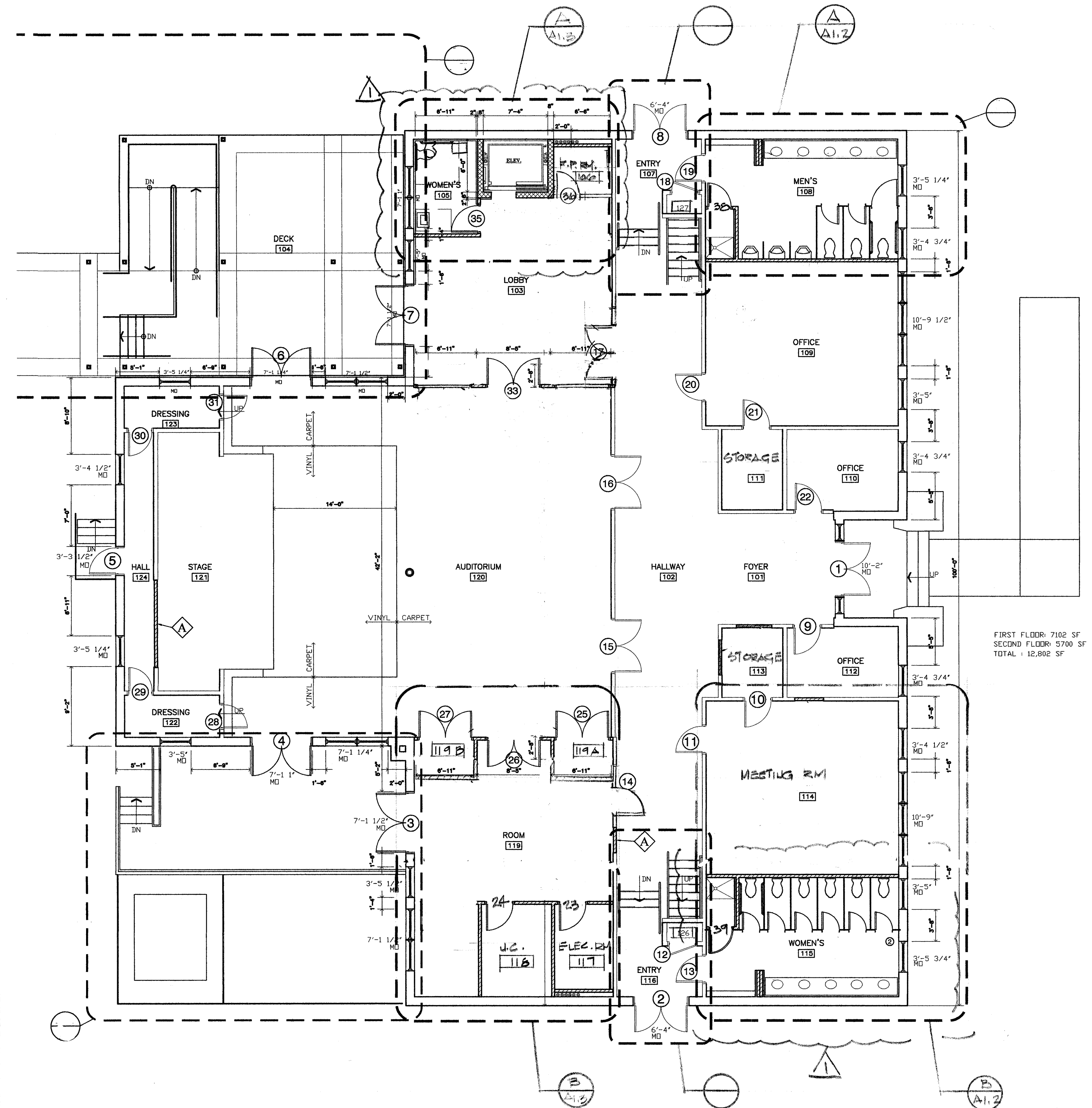
- A. CLOSE-UP EXIST. DOOR OPENING. FINISH TO MATCH ADJACENT WALLS, BOTH SIDES NEW WALL SURFACES TO BE IN SAME FINISH AS EXISTING.
- B. CLOSE-UP EXIST. WINDOW OPENING. FINISH TO MATCH ADJACENT WALLS, BOTH SIDES NEW WALL SURFACES TO BE IN SAME FINISH AS EXISTING.
- C. SAWCUT & REMOVE EXISTING WALL AS REQ'D FOR NEW DOORS & FRAMES. PROVIDE NEW DBL 2X8 WD HEADER. PATCH WALLS TO MATCH ADJACENT WALL FINISHES.
- E. EXISTING WOOD LOCKERS TO BE NEATLY REMOVED, STORED & PROTECTED FROM DAMAGE.

WALLS KEY:

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED
- NEW PARTITION, SEE FLOOR PLAN FOR WALL TYPE.
- NEW FIRE RATED PARTITION, HOUR RATED IN DIAMOND
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE REMOVED
- NEW DOOR & FRAME



FIRST CEILING PLAN  
1/8" = 1'-0"



FIRST FLOOR: 7102 SF  
SECOND FLOOR: 3700 SF  
TOTAL: 10,802 SF

FIRST FLOOR PLAN  
1/8" = 1'-0"

DATE	REV.	REMARKS
11-3-06	1	ISSUE FOR DESIGN & PERMITS
11-9-07	2	ISSUE FOR PERMITS

**OLD PARRISH SCHOOL HOUSE  
12214 STATE ROAD 301  
PARRISH, FL.  
NEW FIRST FLOOR PLAN  
NEW FIRST CEILING PLAN**

Project Number

Drawn by

Checked by  
Al Meronek

Date  
10-06-08

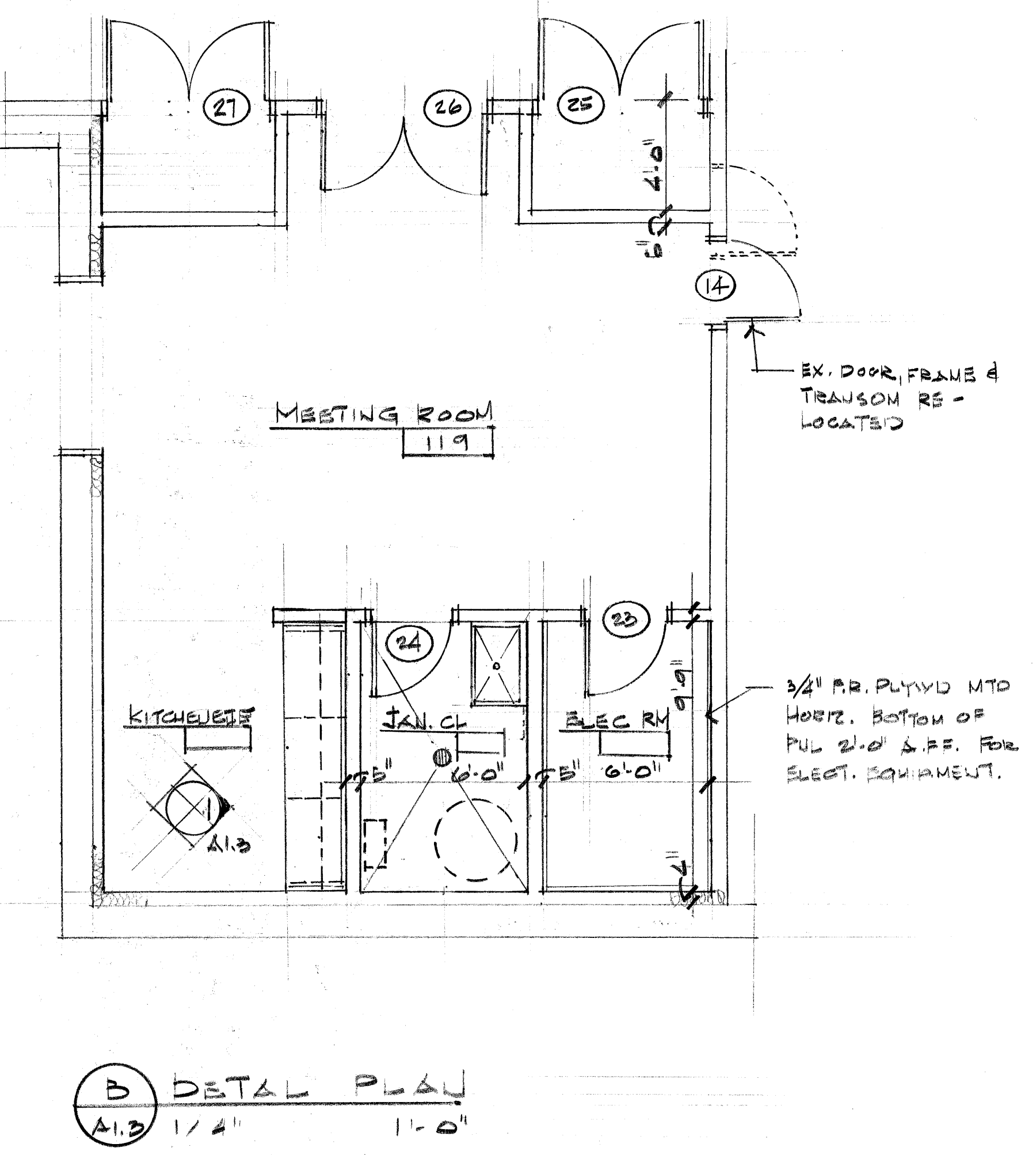
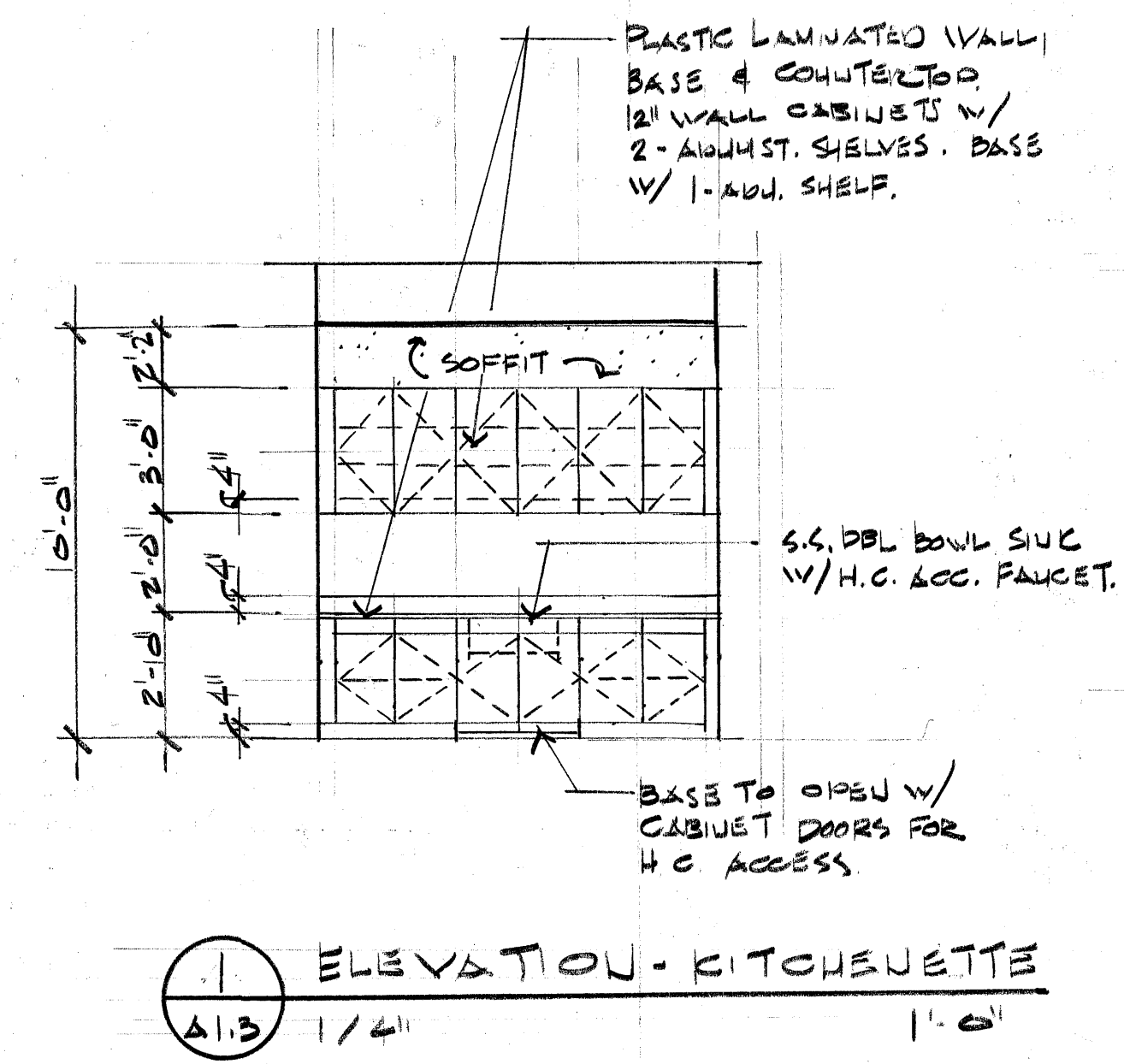
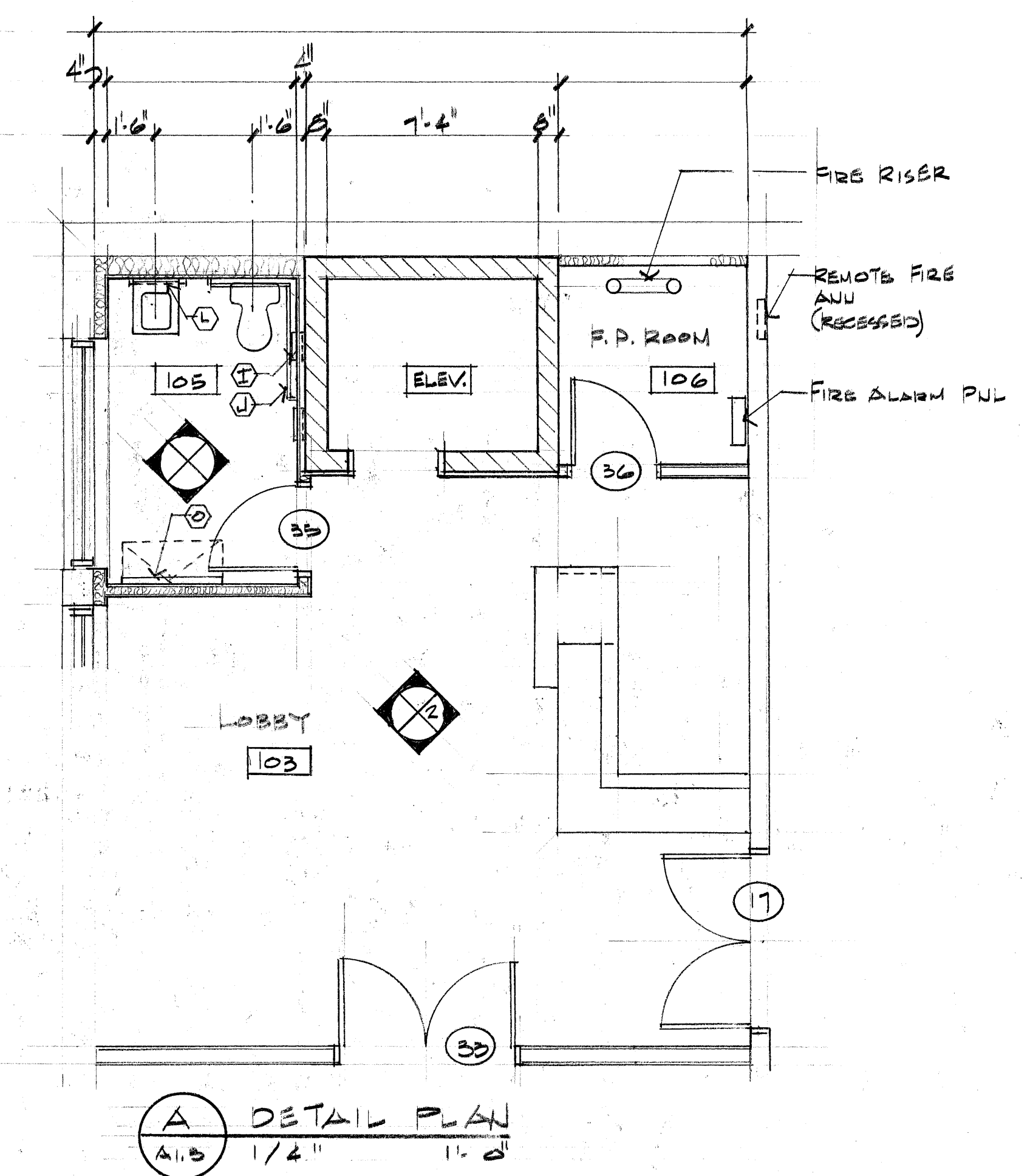
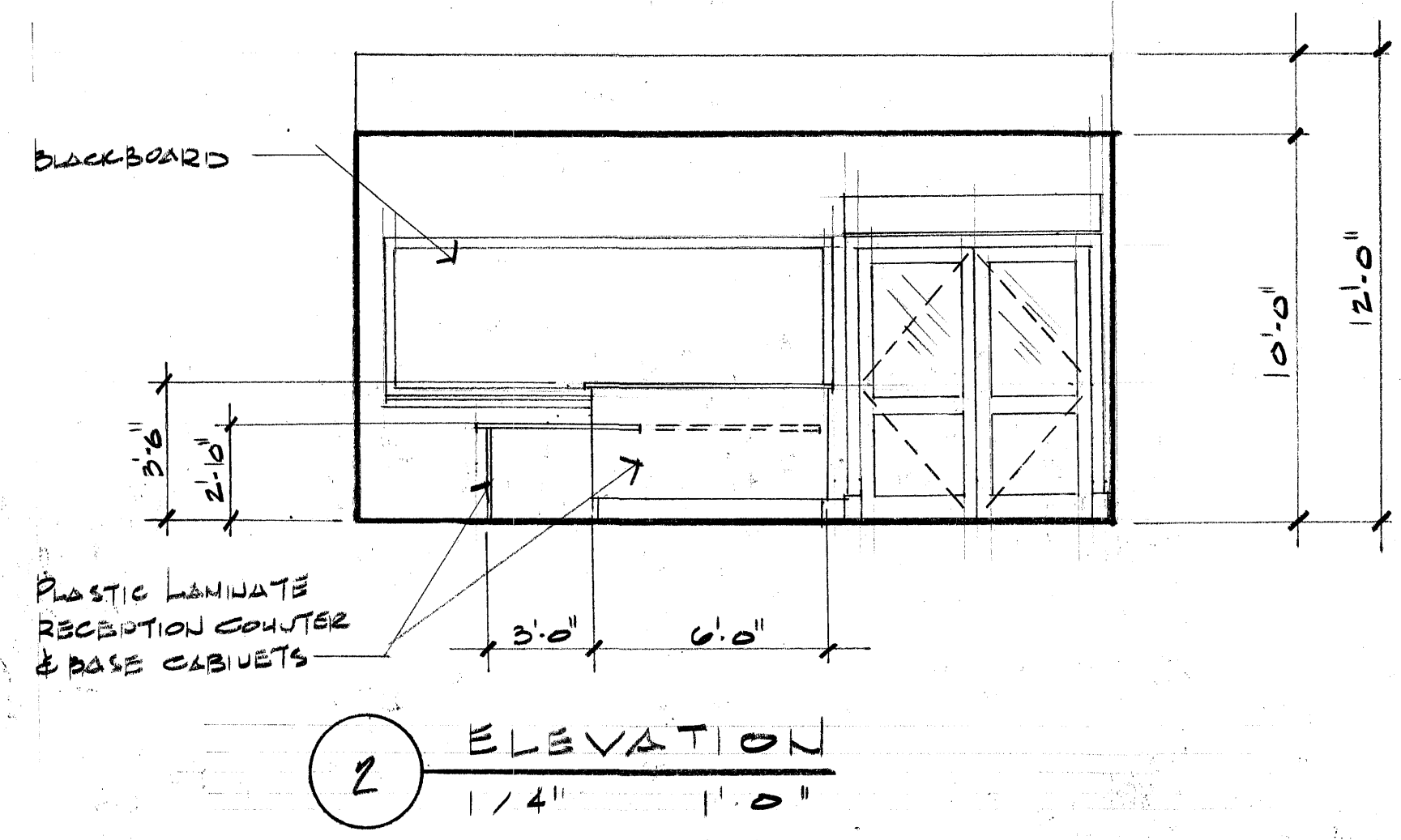
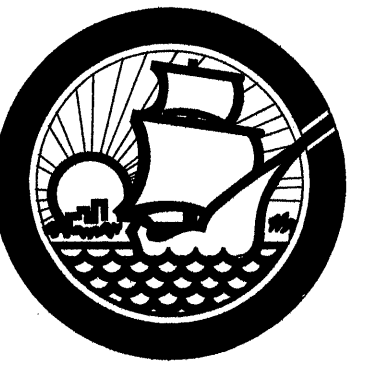
Expires 2-28-2009

Scale

Set

Drawing Number

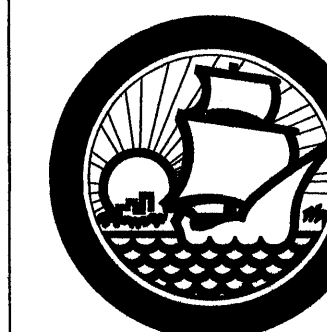
**A1.1**



REV.	DATE	REMARKS
1	1-21-08	REVISE SCHEDULE SHEET

**PARRISH OLD SCHOOL HOUSE**  
**12214 STATE ROAD 301**  
**PARRISH, FL.**  
**INTERIOR ELEVATIONS**

Project Number
Drawn by IBI
Checked by Al Meronek
Date 09-10-08
Expires 2-28-2009
Scale
Set
Drawing Number

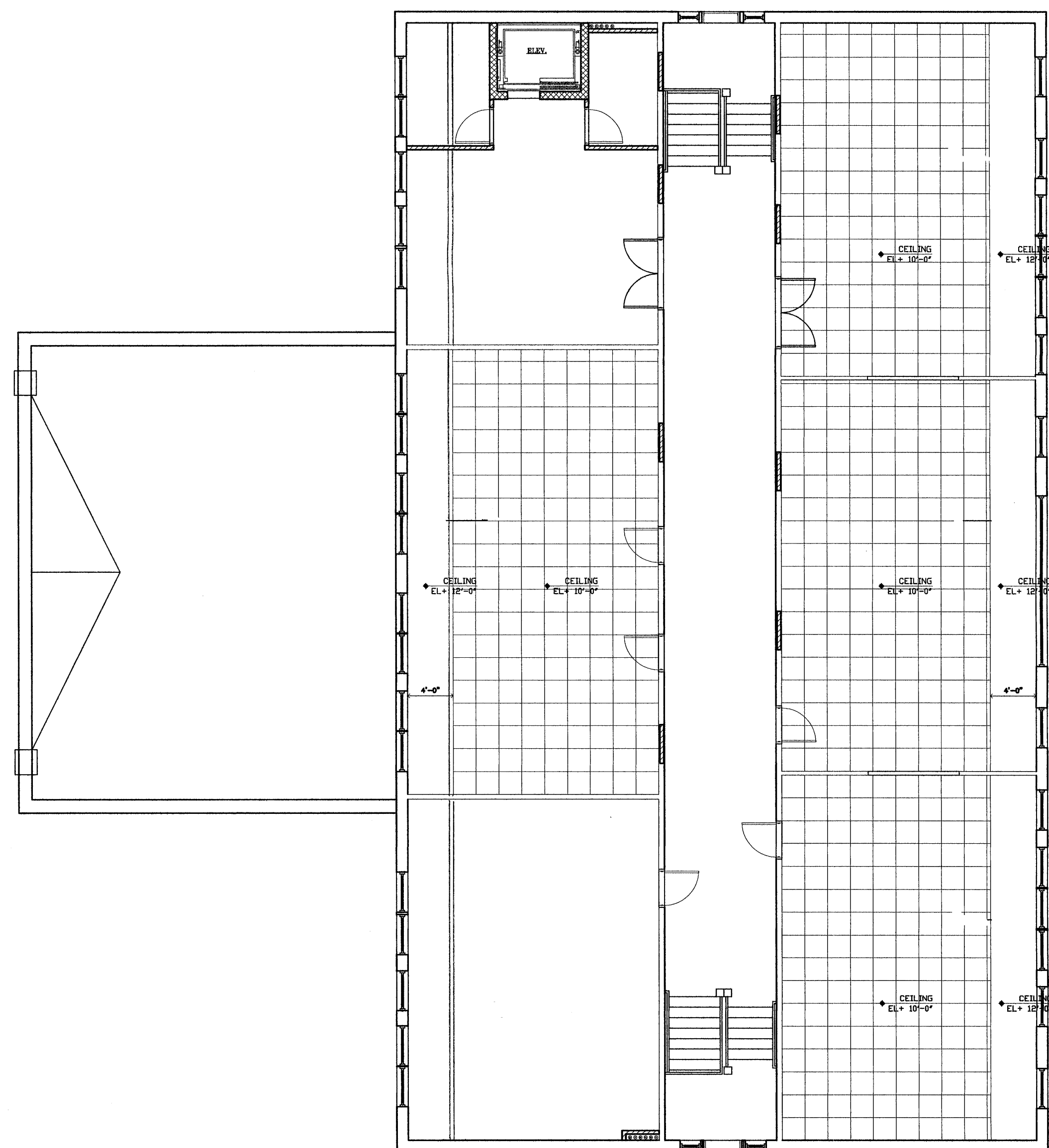


FLOOR PLAN KEY NOTES:

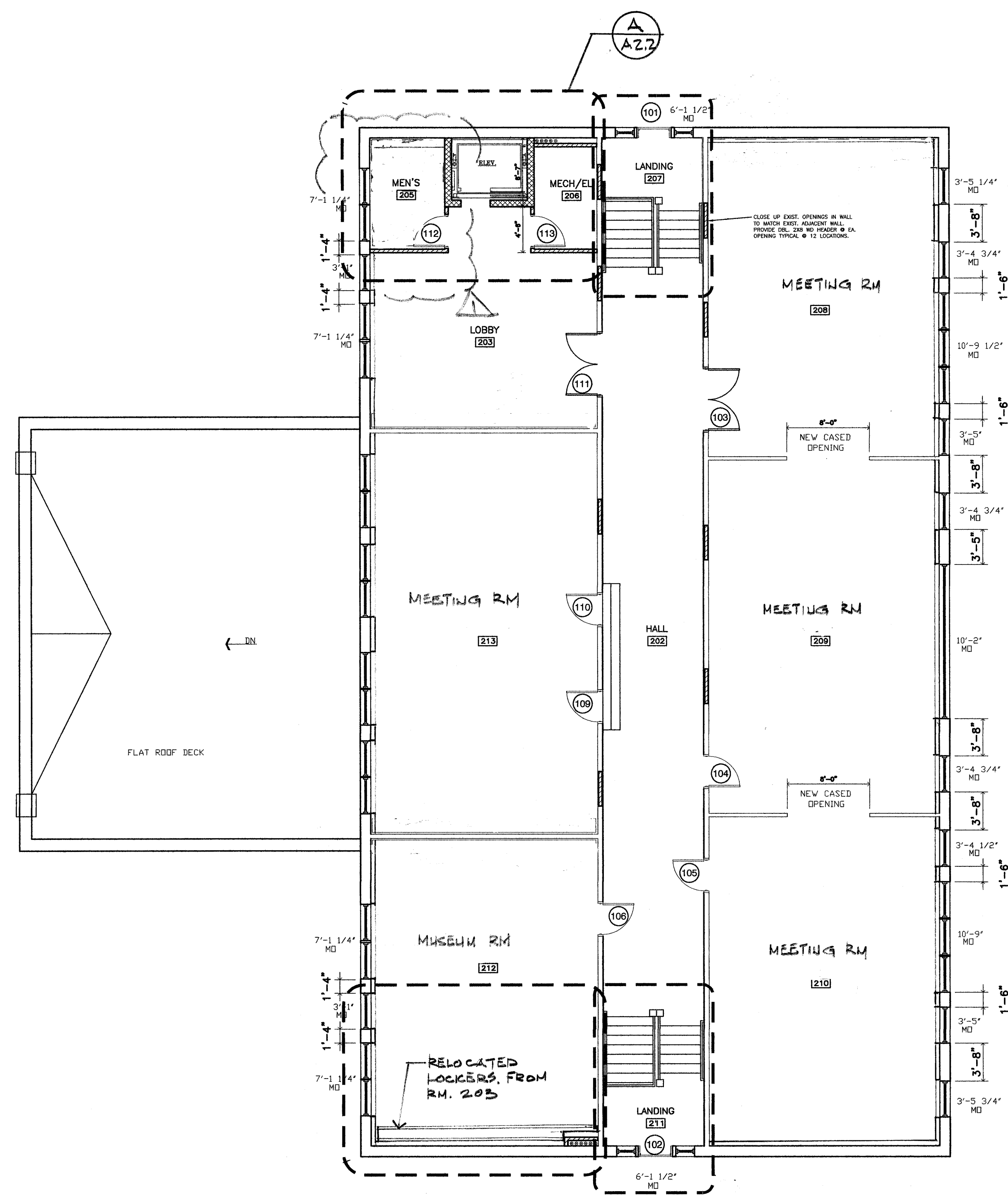
- A. CLOSE-UP EXIST. DOOR OPENING. FINISH TO MATCH ADJACENT WALLS, BOTH SIDES NEW WALL SURFACES TO BE IN SAME FINISH AS EXISTING.
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- EXISTING DOOR TO BE REMOVED
- NEW DOOR & FRAME



SECOND CEILING PLAN  
1/8" = 1'-0"



SECOND FLOOR PLAN  
1/8" = 1'-0"

REV.	DATE	REMARKS
A	11-3-08	ISSUE FOR DESIGN DEVELOPMENT PERMITS
	1-9-09	REVISED PERMITS

**OLD PARRISH SCHOOL HOUSE**  
**12214 STATE ROAD 301**  
**PARRISH, FL.**

Project Number

Drawn by

Checked by  
Al Meronek

Date  
10-06-08

Expires 2-28-2009

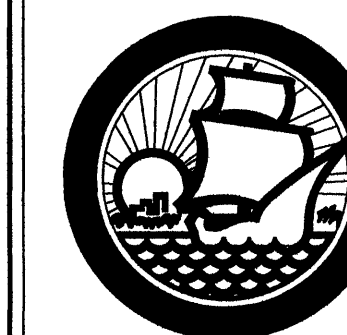
Scale

Set

Drawing Number

**A2.1**





Facilities Management  
1112 Manatee Avenue West  
Suite 803, P.O. Box 1000  
Bradenton, Florida 34206

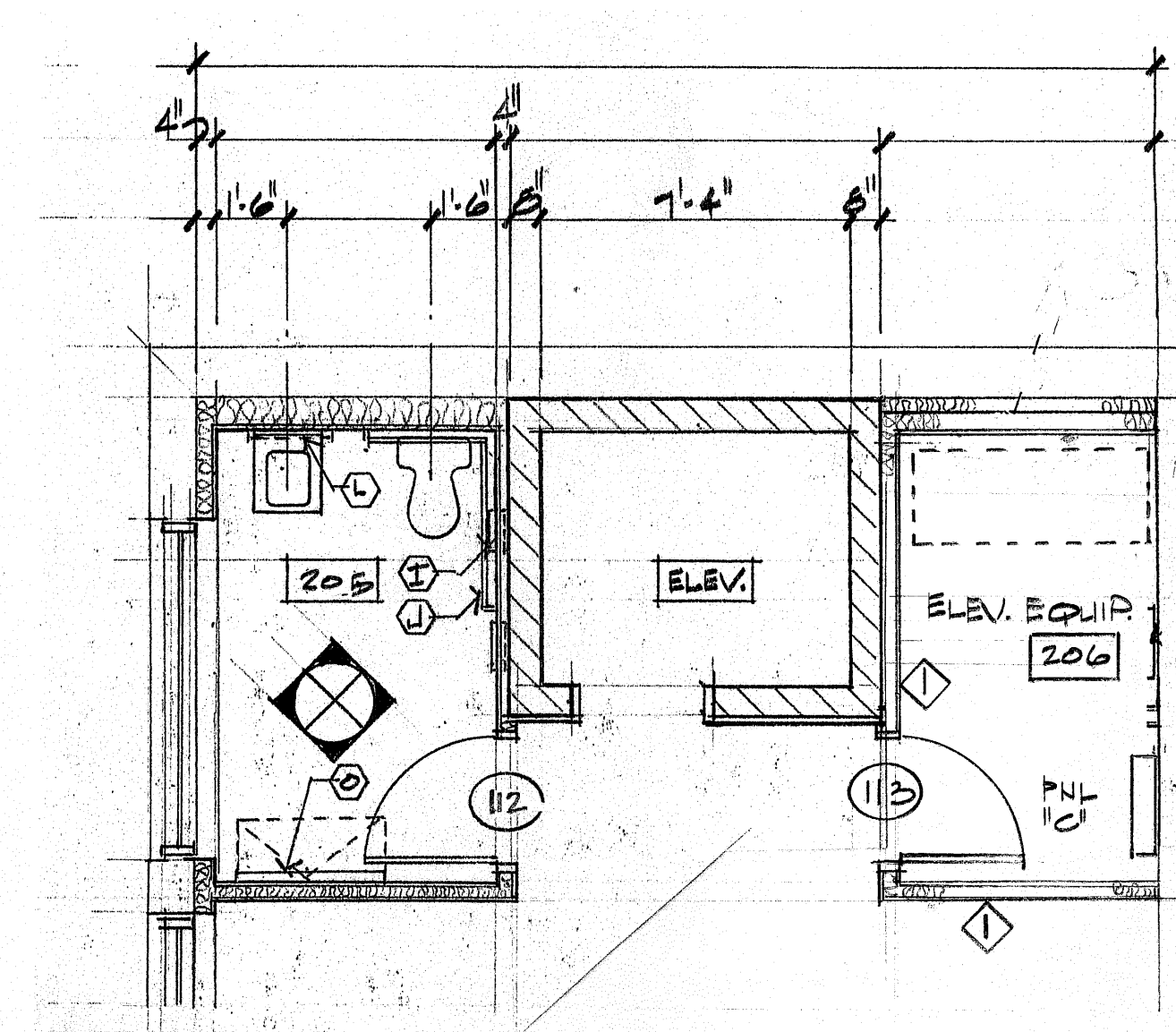
(941) 749-4501  
FAX (941) 742-5880

FLOOR PLAN KEY NOTES:

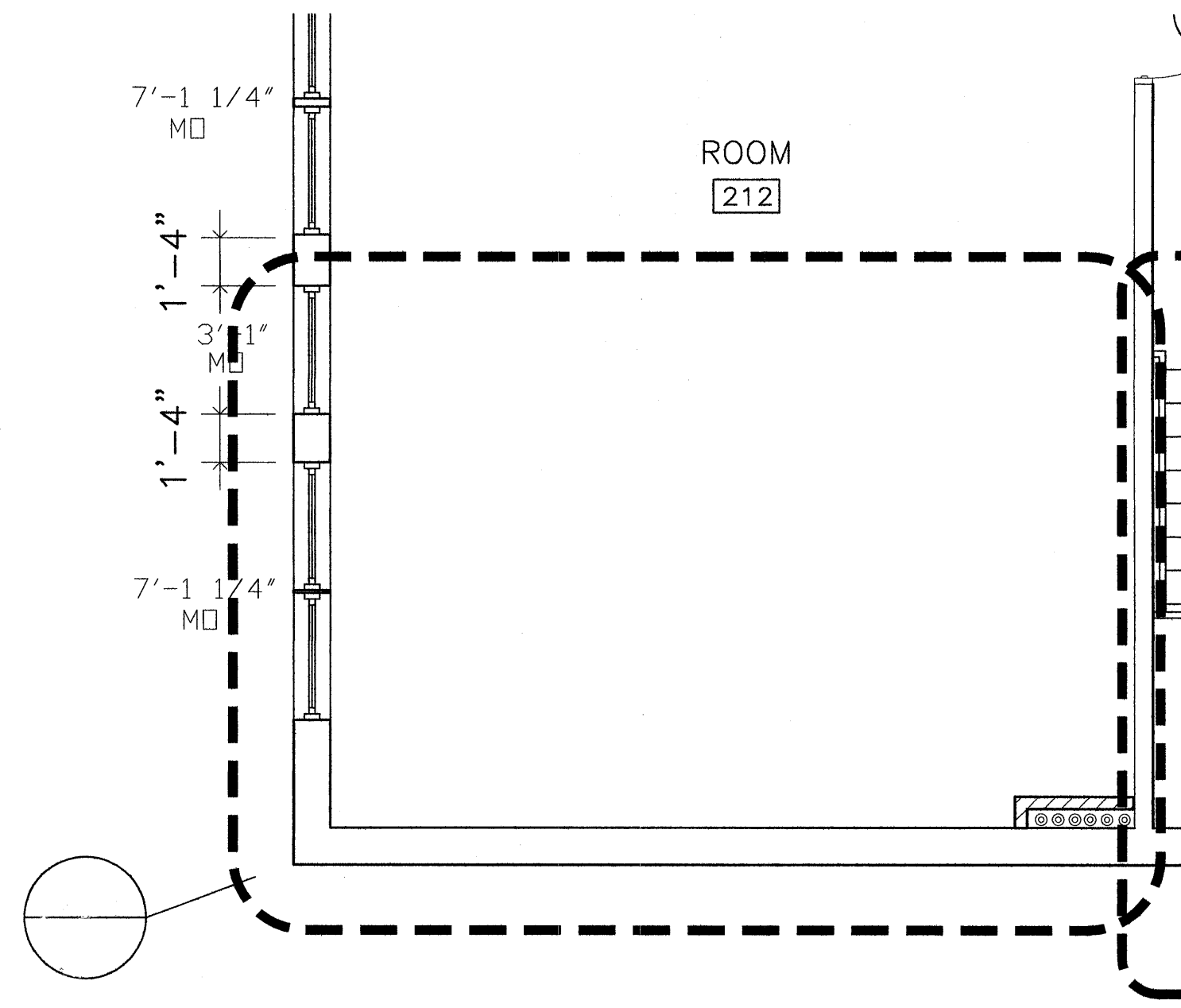
- A. CLOSE-UP EXIST. DOOR OPENING. FINISH TO MATCH ADJACENT WALLS, BOTH SIDES NEW WALL SURFACES TO BE IN SAME FINISH AS EXISTING.
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- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE REMOVED
- NEW DOOR & FRAME



A SECOND DETAIL PLAN  
1/4" = 1'-0"



SECOND DETAIL PLAN  
1/4" = 1'-0"

REV.	DATE	REMARKS
1	11-11-08	ISSUE FOR CHECK OF PERMITS, PERMIT
2	1-9-09	REVISED DETAILS

**OLD PARRISH SCHOOL HOUSE**  
12214 STATE ROAD 301  
PARRISH, FL.

SECOND DETAIL PLAN

Project Number \_\_\_\_\_

Drawn by \_\_\_\_\_

Checked by Al Meronek

Date 10-06-08

Expires 2-28-2009

Scale \_\_\_\_\_

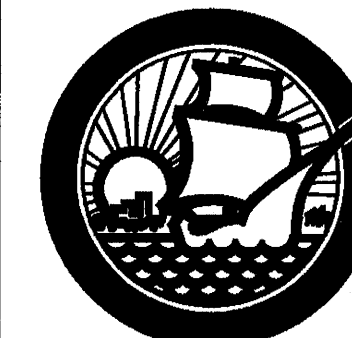
Set \_\_\_\_\_

Drawing Number \_\_\_\_\_

A2.2







REV.	DATE	REMARKS
1	11-15-09	ISSUE FOR STATE PROJECT BID

**OLD PARRISH SCHOOL HOUSE**  
12214 STATE ROAD 301  
PARRISH, FL.  
**ELECTRICAL LEGEND**

Project Number

Drawn by  
Yehuda Inbar AIA  
Inbar architect AIA

Checked by  
Al Meronek

Date  
10-06-08

Expires 2-28-2009

Scale

Set

Drawing Number

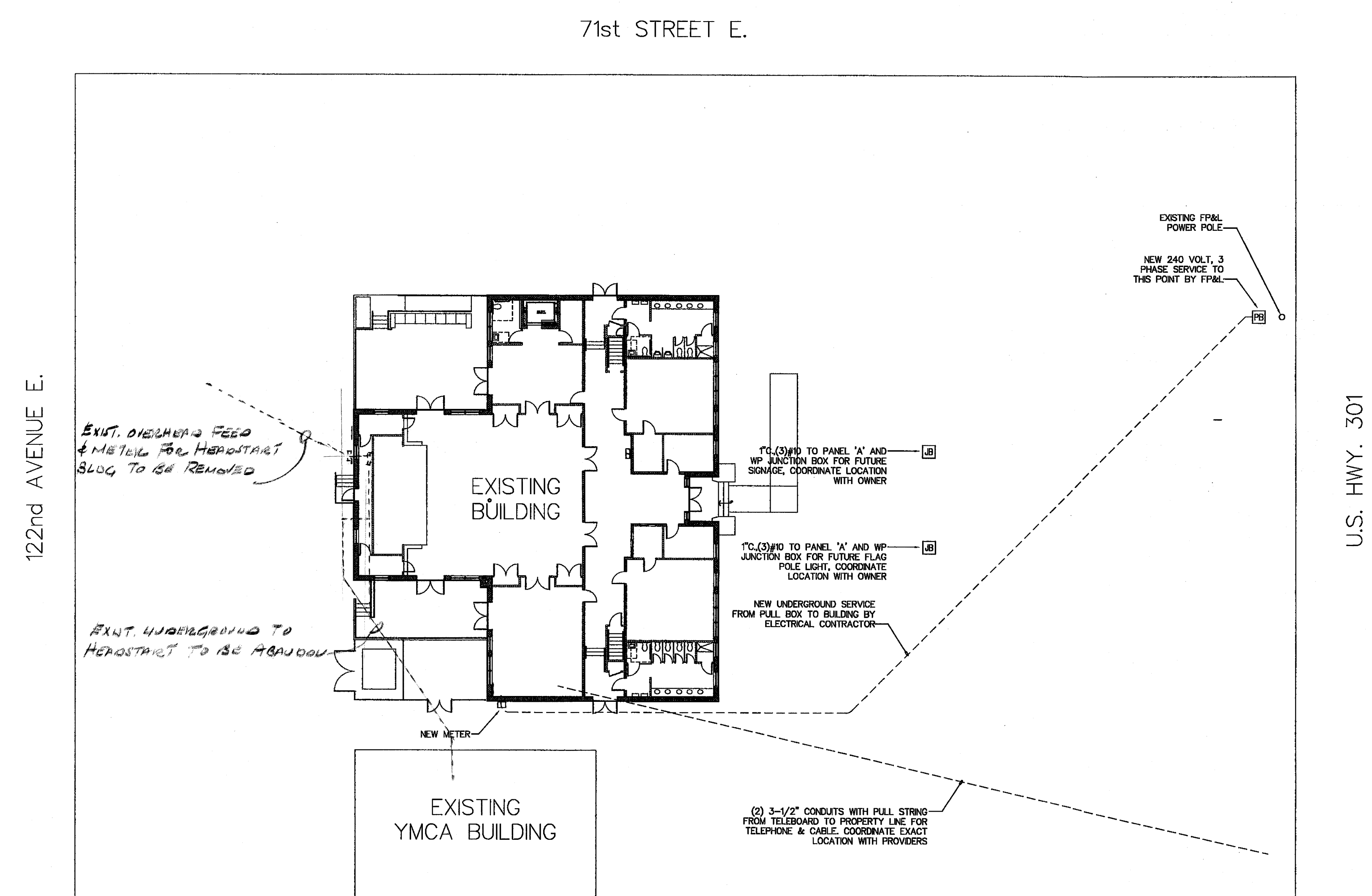
ELECTRICAL SYMBOL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING
	1 X 4 FLUORESCENT FIXTURE LETTER INDICATES TYPE	SEE FIXTURE SCHEDULE
	LINEAR INDIRECT FLUORESCENT FIXTURE LETTER INDICATES TYPE	SEE FIXTURE SCHEDULE
	2 X 4 FLUORESCENT FIXTURE LETTER INDICATES TYPE	SEE FIXTURE SCHEDULE
	SHADING DENOTES FIXTURE WITH EM BATTERY PACK. 'NL' DENOTES FIXTURE UNSWITCHED FOR NIGHT LIGHT	SEE FIXTURE SCHEDULE
	FLUORESCENT STRIP FIXTURE LETTER INDICATES TYPE	SEE FIXTURE SCHEDULE
	FLUORESCENT WALL BRACKET FIXTURE LETTER INDICATES TYPE	SEE FIXTURE SCHEDULE
	PL FLUORESCENT DOWNLIGHT LETTER INDICATES TYPE	SEE FIXTURE SCHEDULE
	EXIT-SHADING DENOTES FACEPLATE LOCATION LETTER INDICATES TYPE. PROVIDE ARROWS AS REQUIRED.	SEE FIXTURE SCHEDULE
	SINGLE POLE SWITCH (20A-120/277) '3' DENOTES 3-WAY 'O' DENOTES OCCUPANCY SENSOR	48" AFF OR AS NOTED
	DUPLEX RECEPTACLE, 125V, 20A 'IG' DENOTES ISOLATED GROUND	18" AFF OR AS NOTED
	DUPLEX RECEPTACLE, 125V, 20A	18" AFF OR AS NOTED
	DUPLEX RECEPTACLE, 125V, 20A	48" AFF OR AS NOTED
	QUADRAPLEX RECEPTACLE, 125V, 20A	18" AFF OR AS NOTED
	POWER/TELEPHONE POLE	SEE DETAIL OR AS NOTED
	OUTLET BOX OR J-BOX FOR POWER AND DATA SUPPLY TO FURNITURE SYSTEMS	18" AFF OR AS NOTED
	COMBINATION VOICE/DATA OUTLET	18" AFF OR AS NOTED
	T.V. OUTLET	18" AFF OR AS NOTED
	DIGITAL SWITCH	48" AFF OR AS NOTED
	PANELBOARD 120/208V	SEE PANEL SCHEDULE
	DRY TYPE TRANSFORMER	SIZE AS NOTED
	RACEWAY CONCEALED IN WALL OR ABOVE CEILING	SEE SPECIFICATIONS
	RACEWAY CONCEALED UNDER FLOOR OR BELOW GRADE	SEE SPECIFICATIONS
	HOME-RUN TO PANEL. LETTERS INDICATE PANEL, NUMBERS INDICATE CIRCUIT. NOTE: HASH MARKS INDICATES THE NUMBER OF WIRES EXCLUDING THE REQUIRED EQUIPMENT GROUND.	SEE SPECIFICATIONS
	MOTOR, NUMERAL INDICATES HORSEPOWER	AS NOTED
	MOTOR RATED SWITCH WITH OVERLOAD RELAYS AS REQUIRED.	MOUNTED ADJACENT TO EQUIPMENT
	NON-FUSIBLE SAFETY SWITCH-SIZE AS NOTED	SEE SPECIFICATIONS
	FUSIBLE SAFETY SWITCH-SIZE AS NOTED	SEE SPECIFICATIONS
	FIRE ALARM DUCT DETECTOR ('RA'DENOTES RETURN AIR 'SA' DENOTES SUPPLY AIR)	MOUNTED IN HVAC DUCTWORK
	FIRE ALARM OR AIR HANDLER SHUTDOWN RELAY	MOUNTED ADJACENT TO EQUIPMENT
	FIRE ALARM VISUAL SIGNAL	80" AFF OR AS NOTED
	FIRE ALARM MANUAL PULLSTATION	48" AFF OR AS NOTED
	FIRE ALARM AUDIBLE/VISUAL SIGNAL. ADA COMPATIBLE	80" AFF OR AS NOTED
	FIRE ALARM SMOKE DETECTOR	ON CEILING OR AS NOTED
	FIRE ALARM PANEL ('FACP' DENOTES FIRE ALARM CONTROL PANEL, 'FAA' DENOTES ANNUNCIATOR)	60" AFF OR AS NOTED
	FIRE ALARM TAMPER AND FLOW SWITCH	
	FIRE ALARM HEAT DETECTOR	
	REFER TO LIKE NUMBERED NOTES	

NOTE: ALL MOUNTING HEIGHTS SHOWN ARE TO THE TOP OF THE DEVICE UNLESS NOTED OTHERWISE.  
NOT ALL SYMBOLS APPEAR ON PLANS.

ABBREVIATIONS:

AFF	- ABOVE FINISHED FLOOR	HP	- HORSEPOWER, HEAT PUMP
AHU	- AIR HANDLING UNIT	HVAC	- HEATING, BENTILATING, AIR CONDITIONING
BFG	- BELOW FINISHED GRADE	JB	- JUNCTION BOX
C	- CONDUIT	LRA	- LOCKED ROTOR AMPERES
EF	- EXHAUST FAN	MCB	- MAIN CIRCUIT BREAKER
EG	- EQUIPMENT GROUND	MLO	- MAIN LUGS ONLY
ENCL	- ENCLOSURE	N	- NEUTRAL
EWC	- ELECTRIC WATER COOLER	NL	- NIGHT LIGHT
EWL	- ELECTRIC WATER HEATER	PB	- PULL BOX, PUSH-BUTTON
FCU	- FAN COIL UNIT	RECEP	- RECEPTACLE
FLA	- FULL LOAD AMPERES	SF	- SUPPLY FAN
G	- GROUND	SPEC	- SPECIFICATIONS
GFI	- GROUND FAULT INTERRUPTER	TTB	- TELEPHONE TERMINAL BOARD
		UNO	- UNLESS NOTED OTHERWISE
		WP	- WEATHERPROOF

J Junction Box w/ 3/4" C TO ABOVE UNFINISHED CEILING.



**ELECTRICAL SITE PLAN**  
1"=20'



REV.	DATE	REMARKS
1	1-5-09	Issue For Fire Alarm BID

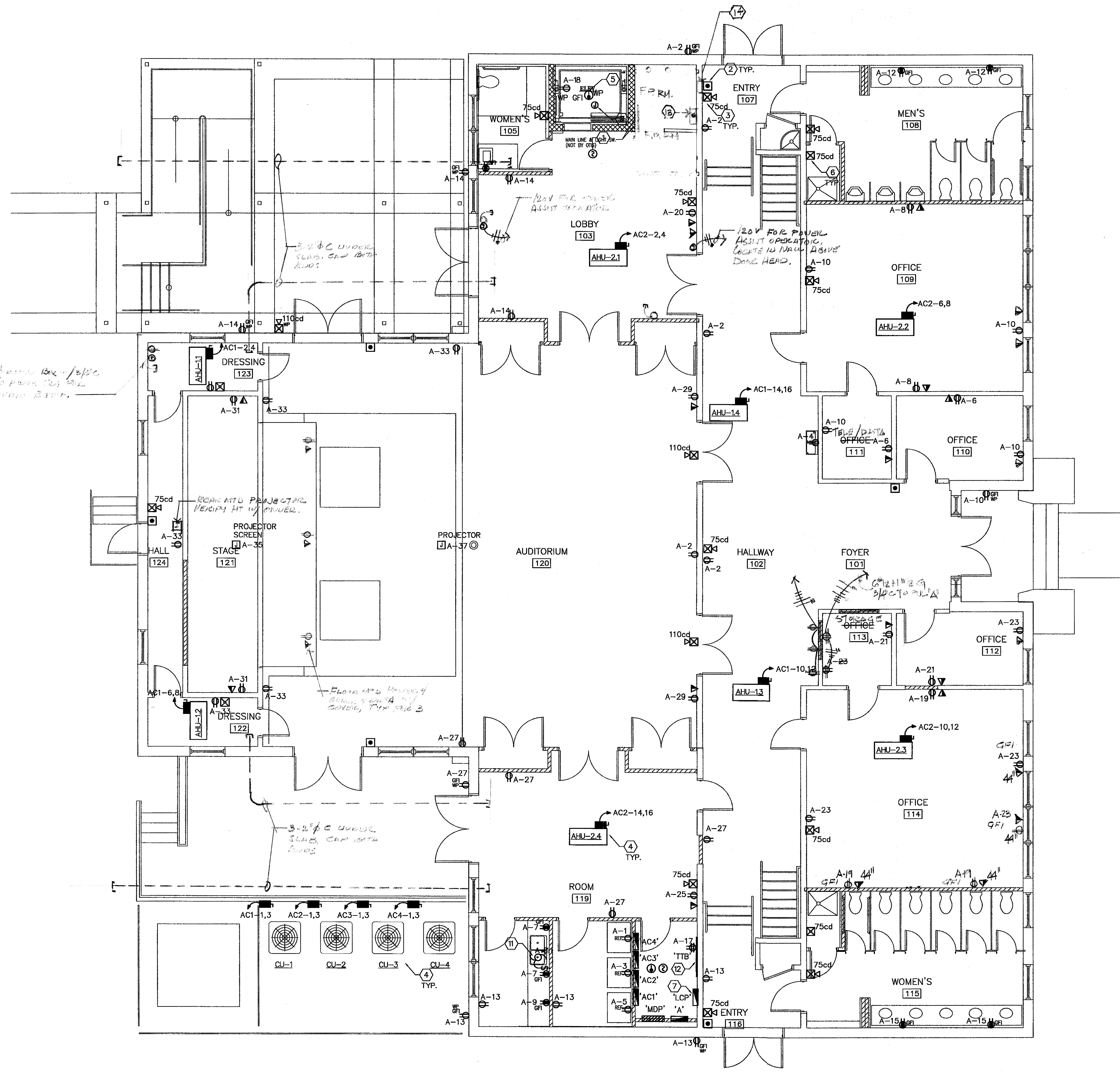
**OLD PARRISH SCHOOL HOUSE  
12214 STATE ROAD 301  
PARRISH, FL.  
FIRST FLOOR POWER  
AND SYSTEMS PLAN**

Project Number	
Drawn by	Yehuda Inbar AIA Inbar architect AIA
Checked by	Al Meronek
Date	10-06-08
Expires	2-28-2009
Scale	
Set	
Drawing Number	

- NOTES: ⬡
- SMOKE DETECTOR PROVIDED AT ELEVATOR LOBBY AREA FOR ELEVATOR RECALL AND CAPTURE.
  - PROVIDE MANUAL FIRE ALARM PULL STATION INITIATING DEVICE- WALL MOUNTED 48" AFF.
  - PROVIDE SPEAKER/STROBE NOTIFICATION DEVICE - 72" AFF TO BOTTOM.
  - PROVIDE FINAL CONNECTION TO HVAC UNIT (HP). REFER TO THE HVAC BRANCH CIRCUIT AND DISCONNECT/CIRCUIT BREAKER SCHEDULE. FIELD VERIFY CIRCUIT BREAKER SIZE WITH HVAC NAME PLATE. REFER TO PANEL SCHEDULE FOR CIRCUIT DESIGNATION. COORDINATE WITH MECHANICAL CONTRACTOR.
  - LOCATE WP HEAT DETECTOR IN PIT.
  - PROVIDE VISUAL STROBE NOTIFICATION DEVICE - 72" AFF TO BOTTOM.
  - LIGHTING CONTROL PANEL BY LEVITON. SEE LIGHTING CONTROL RISER.
  - PROVIDE ELECTRICAL CONNECTION FOR SUMP PUMP, 3/4"C.(2)#10+ #10G TO PANEL A-23.
  - PROVIDE ELECTRICAL CONNECTION TO ELEVATOR MOTOR. 1-1/2"C.(3)#1 + #6ND, 208V/3P/125A DISCONNECT.
  - PROVIDE 120V, 30A CIRCUIT FOR ELEVATOR CAB LIGHTS.
  - PROVIDE ELECTRICAL CONNECTION TO DISPOSAL.
  - TELEPHONE TERMINAL BOARD. PROVIDE 3/4"X8"X4" PLYWOOD BACKBOARD FINISHED WITH GRAY FIRE RETARDANT PAINT AND #6 GROUND CONDUCTOR TO BUILDING STEEL.
13. MAIN FIRE ALARM PANEL  
14. REMOTE ANNUNCIATOR RECESSED

**HVAC UNITS DISCONNECT/BREAKER AND FEEDER SCHEDULE**

UNIT ID.	WIRE AND CONDUIT SIZES	DISCONNECT & STARTER
CU-1	3 #6 AND 1 #8 E.G. - 1"C.	240V/3P/70A 3R
CU-2	3 #6 AND 1 #8 E.G. - 1"C.	240V/3P/70A 3R
CU-3	3 #6 AND 1 #8 E.G. - 1"C.	240V/3P/70A 3R
CU-4	3 #6 AND 1 #8 E.G. - 1"C.	240V/3P/70A 3R
AHU-1.1	2 #10 AND 1 #10 E.G. - 3/4"C.	240V/1P/15A
AHU-1.2	2 #10 AND 1 #10 E.G. - 3/4"C.	240V/1P/15A
AHU-1.3	2 #10 AND 1 #10 E.G. - 3/4"C.	240V/1P/15A
AHU-1.4	2 #10 AND 1 #10 E.G. - 3/4"C.	240V/1P/15A
AHU-2.1	2 #10 AND 1 #10 E.G. - 3/4"C.	240V/1P/15A
AHU-2.2	2 #10 AND 1 #10 E.G. - 3/4"C.	240V/1P/15A
AHU-2.3	2 #10 AND 1 #10 E.G. - 3/4"C.	240V/1P/15A
AHU-2.4	2 #10 AND 1 #10 E.G. - 3/4"C.	240V/1P/15A

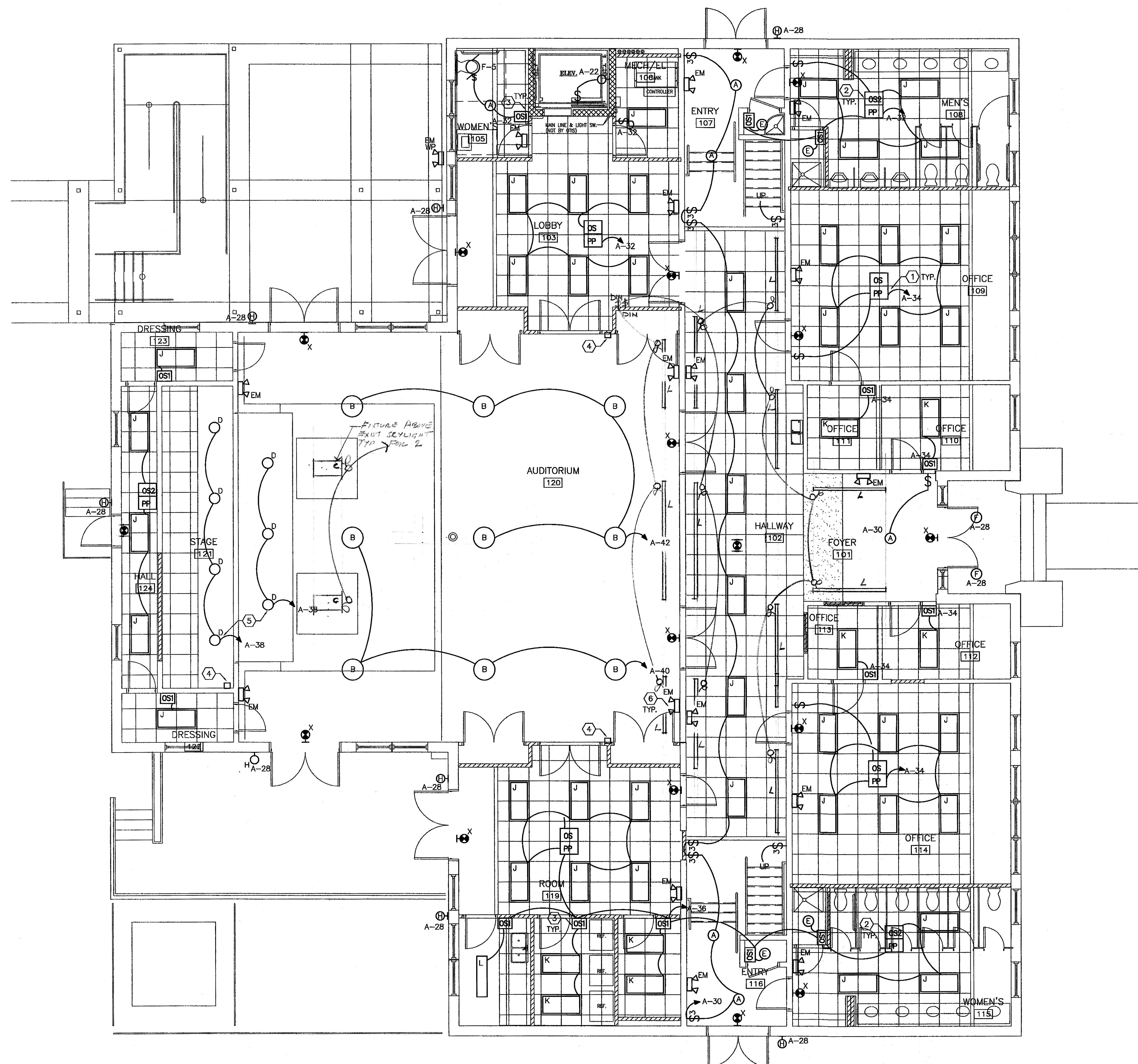


**FIRST FLOOR POWER AND SYSTEMS PLAN**  
3/16" = 1'-0"

**GRINER ENGINEERING, INC.**  
1628 First Avenue North  
St. Petersburg, Florida 33713  
Phone: (727) 822-2333  
Fax: (727) 821-3361  
Certificate of Authorization #9173

Date	10/24/2008
Drawn	X
Designed	X
Revised	
Job no.	08066





- NOTES: ◻
1. PROVIDE OCCUPANCY SENSOR (LEVITON OSC10-MOW) AND POWER PACK (LEVITON OSP20) FOR LIGHT CONTROL.
  2. IN RESTROOMS PROVIDE OCCUPANCY SENSOR (LEVITON OSC050-MOW) AND POWER PACK (LEVITON OSP20).
  3. PROVIDE OCCUPANCY SENSOR (LEVITON ODS00-10W).
  4. DIGITAL SWITCH STATION. SEE LIGHTING CONTROL RISER SHEET E-6.
  5. SERVE STAGE LIGHTING HOMERUNS FROM SEPERATE LOP RELAYS.
  6. ALL EXIT & EMERGENCY LIGHTS SHALL BE SERVED FROM NEAREST LIGHTING CIRCUIT ON UNSWITCHED LEG.

OCCUPANCY SENSOR SCHEDULE

OS PP = PROVIDE MOTION SENSOR (LEVITON OSC10-MOW) AND POWER PACK (LEVITON OSP20).

OS1 = OCCUPANCY SENSOR (LEVITON ODS00-10W).

OS2 PP = OCCUPANCY SENSOR (LEVITON OSC050-MOW) AND POWER PACK (LEVITON OSP20).

N  
FIRST FLOOR LIGHTING PLAN  
3/16" = 1'-0"

**GRINER ENGINEERING, INC.**  
1628 First Avenue North  
St. Petersburg, Florida 33713  
Phone: (727) 822-2335  
Fax: (727) 821-3361  
Certificate of Authorization #3173

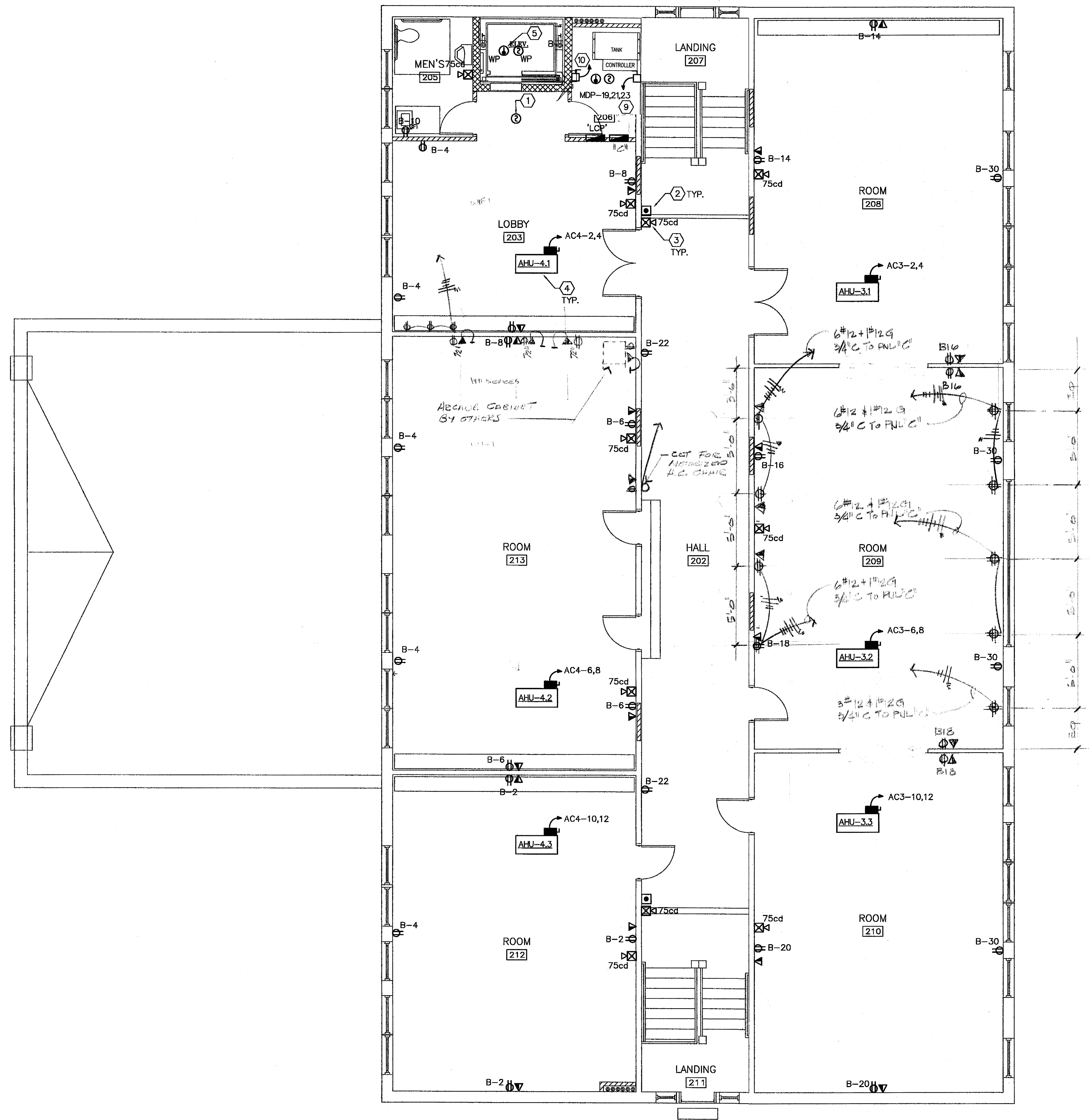
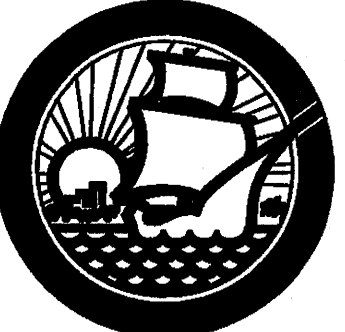
Date:	10/24/2008
Drawn:	X
Designed:	X
Revised:	
Job no.:	08966

REV.	DATE	REMARKS
1	1-5-09	ISSUE FOR FIELD INSTALLATION

**OLD PARRISH SCHOOL HOUSE  
12214 STATE ROAD 301  
PARRISH, FL.  
FIRST FLOOR  
LIGHTING PLAN**

Project Number	
Drawn by	Yehuda Inbar AIA Inbar architect AIA
Checked by	Al Meronek
Date	10-06-08
Expires	2-28-2009
Scale	
Set	
Drawing Number	





- NOTES:
1. SMOKE DETECTOR PROVIDED AT ELEVATOR LOBBY AREA FOR ELEVATOR RECALL AND CAPTURE.
  2. PROVIDE MANUAL FIRE ALARM PULL STATION INITIATING DEVICE- WALL MOUNTED 48" AFF.
  3. PROVIDE SPEAKER/STROBE NOTIFICATION DEVICE - 72" AFF TO BOTTOM.
  4. PROVIDE FINAL CONNECTION TO HVAC UNIT (HP). REFER TO THE HVAC BRANCH CIRCUIT AND DISCONNECT/CIRCUIT BREAKER SCHEDULE. FIELD VERIFY CIRCUIT BREAKER SIZE WITH HVAC NAME PLATE. REFER TO PANEL SCHEDULE FOR CIRCUIT DESIGNATION. COORDINATE WITH MECHANICAL CONTRACTOR.
  5. LOCATE WP HEAT & SMOKE DETECTORS AT TOP OF ELEVATOR PIT.
  6. PROVIDE VISUAL STROBE NOTIFICATION DEVICE - 72" AFF TO BOTTOM.
  7. PROVIDE FINAL ELECTRICAL CONNECTION TO WATER HEATER. 3/4"C.(2)#8+#10G TO PANEL B. 208V/P/60A DISCONNECT.
  8. PROVIDE FINAL ELECTRICAL CONNECTION TO RECIRC PUMP. 3/4"C.(2)#10+#10G TO PANEL B. 120V/P/20A DISCONNECT.

UNIT ID.	WIRE AND CONDUIT SIZES	DISCONNECT & STARTER
AHU-3.1	2 #10 AND 1 #10 E.G. - 3/4"C.	240V/1P/15A
AHU-3.2	2 #10 AND 1 #10 E.G. - 3/4"C.	240V/1P/15A
AHU-3.3	2 #10 AND 1 #10 E.G. - 3/4"C.	240V/1P/15A
AHU-4.1	2 #10 AND 1 #10 E.G. - 3/4"C.	240V/1P/15A
AHU-4.2	2 #10 AND 1 #10 E.G. - 3/4"C.	240V/1P/15A
AHU-4.3	2 #10 AND 1 #10 E.G. - 3/4"C.	240V/1P/15A

REV.	DATE	REMARKS
	12.09	Issue For Fire Alarm B/B

**OLD PARRISH SCHOOL HOUSE  
12214 STATE ROAD 301  
PARRISH, FL.  
SECOND FLOOR POWER  
AND SYSTEMS PLAN**

Project Number  
Drawn by Yehuda Inbar AIA  
Inbar architect AIA  
Checked by Al Meronek  
Date 10-06-08

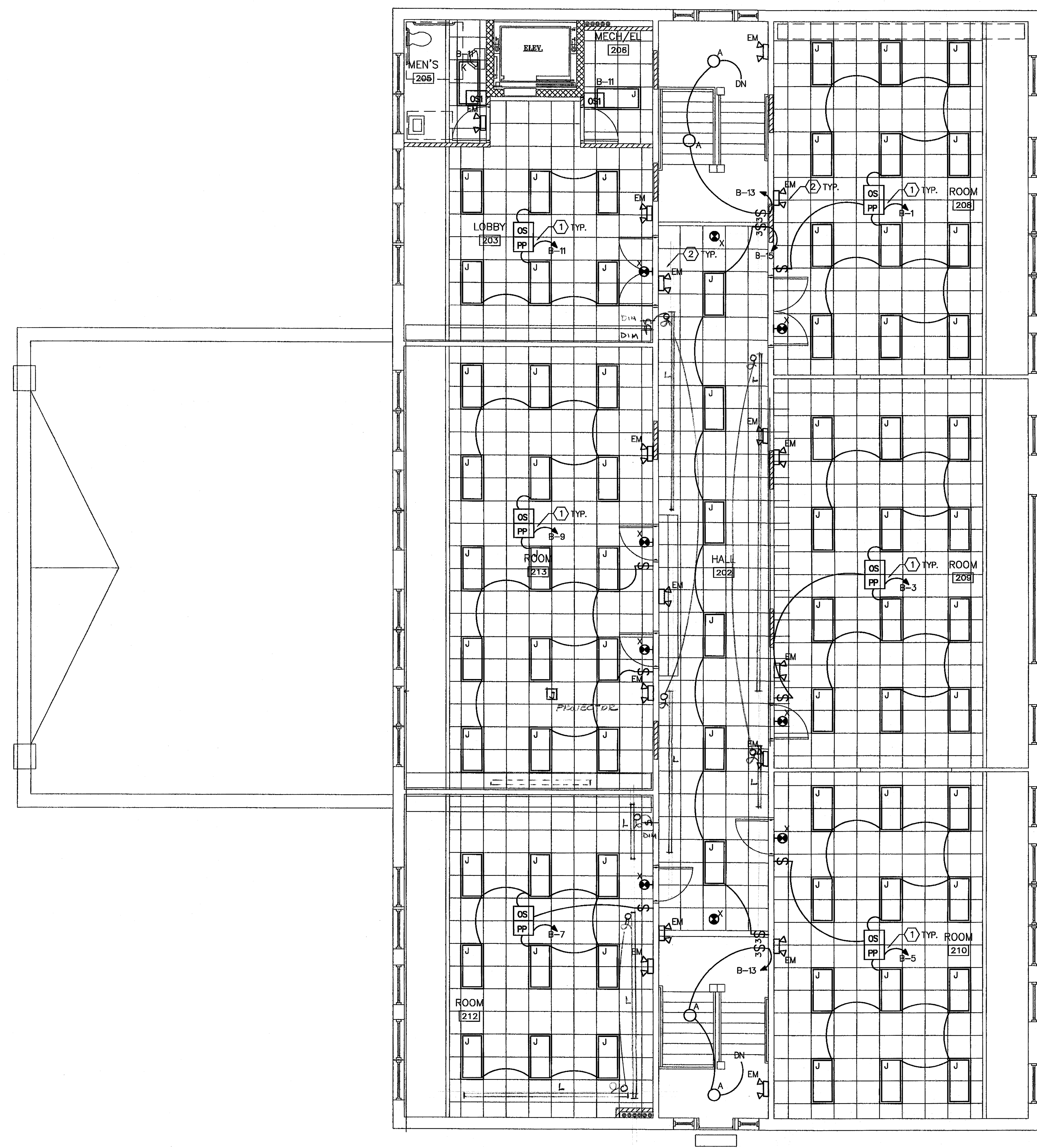
Expires 2-28-2009  
Scale  
Set

Drawing Number

**SECOND FLOOR POWER AND SYSTEMS PLAN**  
3/16" = 1'-0"

**GRINER ENGINEERING, INC.**  
1628 First Avenue North  
St. Petersburg, Florida 33713  
Phone: (727) 822-2335  
Fax: (727) 821-3361  
Certificate of Authorization #3173

Date	10/24/2008
Drawn	X
Designed	X
Revised	
Job no.	08066



NOTES:

1. PROVIDE OCCUPANCY SENSOR (LEVITON OSC10-MOW) AND POWER PACK (LEVITON OSP20) FOR LIGHT CONTROL.
2. ALL EXIT & EMERGENCY LIGHTS SHALL BE SERVED FROM NEAREST LIGHTING CIRCUIT ON UNSWITCHED LEG.

OCCUPANCY SENSOR SCHEDULE

= PROVIDE MOTION SENSOR (LEVITON OSC10-MOW) AND POWER PACK (LEVITON OSP20).

= OCCUPANCY SENSOR (LEVITON ODS00-10W).

= OCCUPANCY SENSOR (LEVITON OSC050-MOW) AND POWER PACK (LEVITON OSP20).

REV.	DATE	REMARKS
1	1-5-09	ISSUE FOR FAB APPROVAL

**OLD PARRISH SCHOOL HOUSE**  
**12214 STATE ROAD 301**  
**PARRISH, FL.**  
**SECOND FLOOR**  
**LIGHTING PLAN**

Project Number  
 Drawn by Yehuda Inbar AIA  
 Inbar architect AIA  
 Checked by Al Meronek  
 Date 10-06-08

Expires 2-28-2009  
 Scale  
 Set

Drawing Number

E-5

SECOND FLOOR LIGHTING PLAN  
 3/16" = 1'-0"

GRINER ENGINEERING, INC.  
 1628 First Avenue North  
 St. Petersburg, Florida 33713  
 Phone: (727) 822-3335  
 Fax: (727) 821-8361  
 Certificate of Authorization #3173

Date	10/24/2008
Drawn	X
Designed	X
Revised	
Job no.	08066





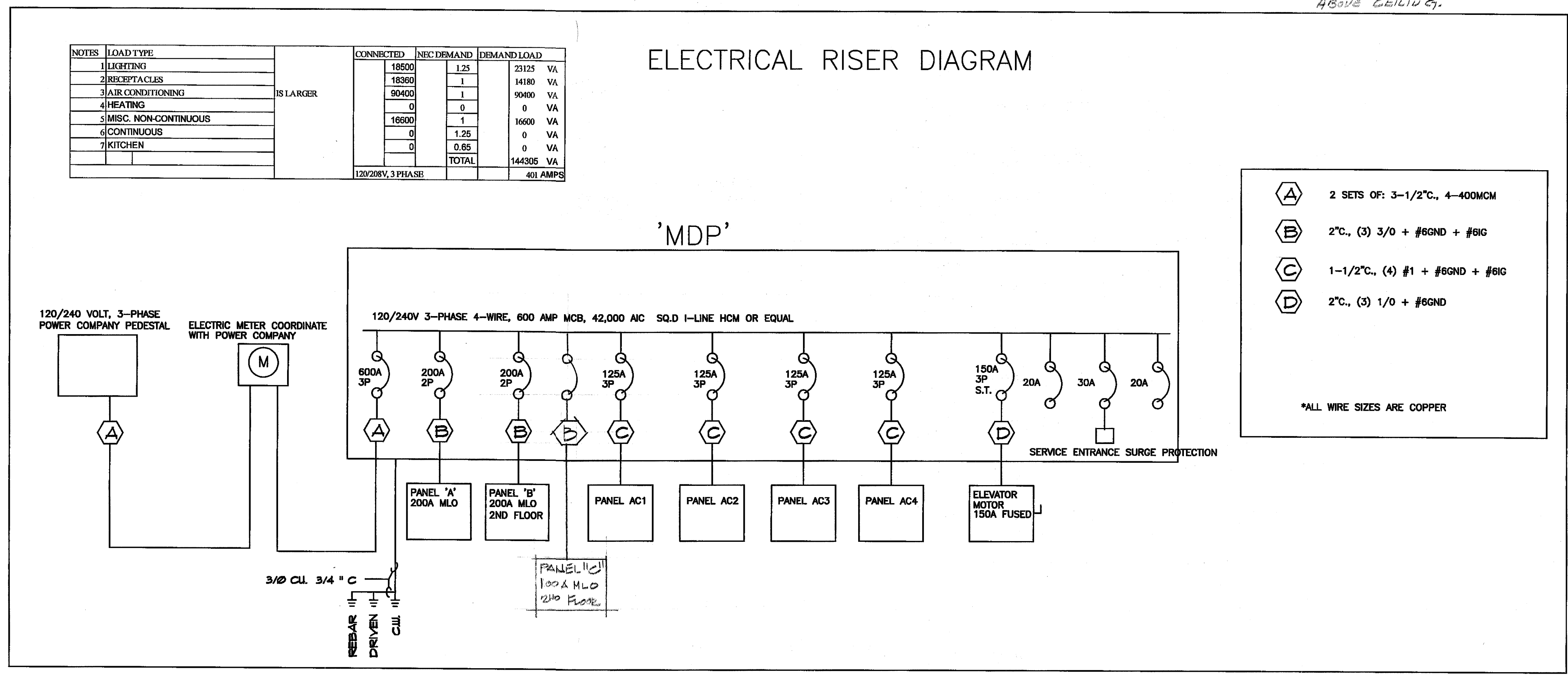
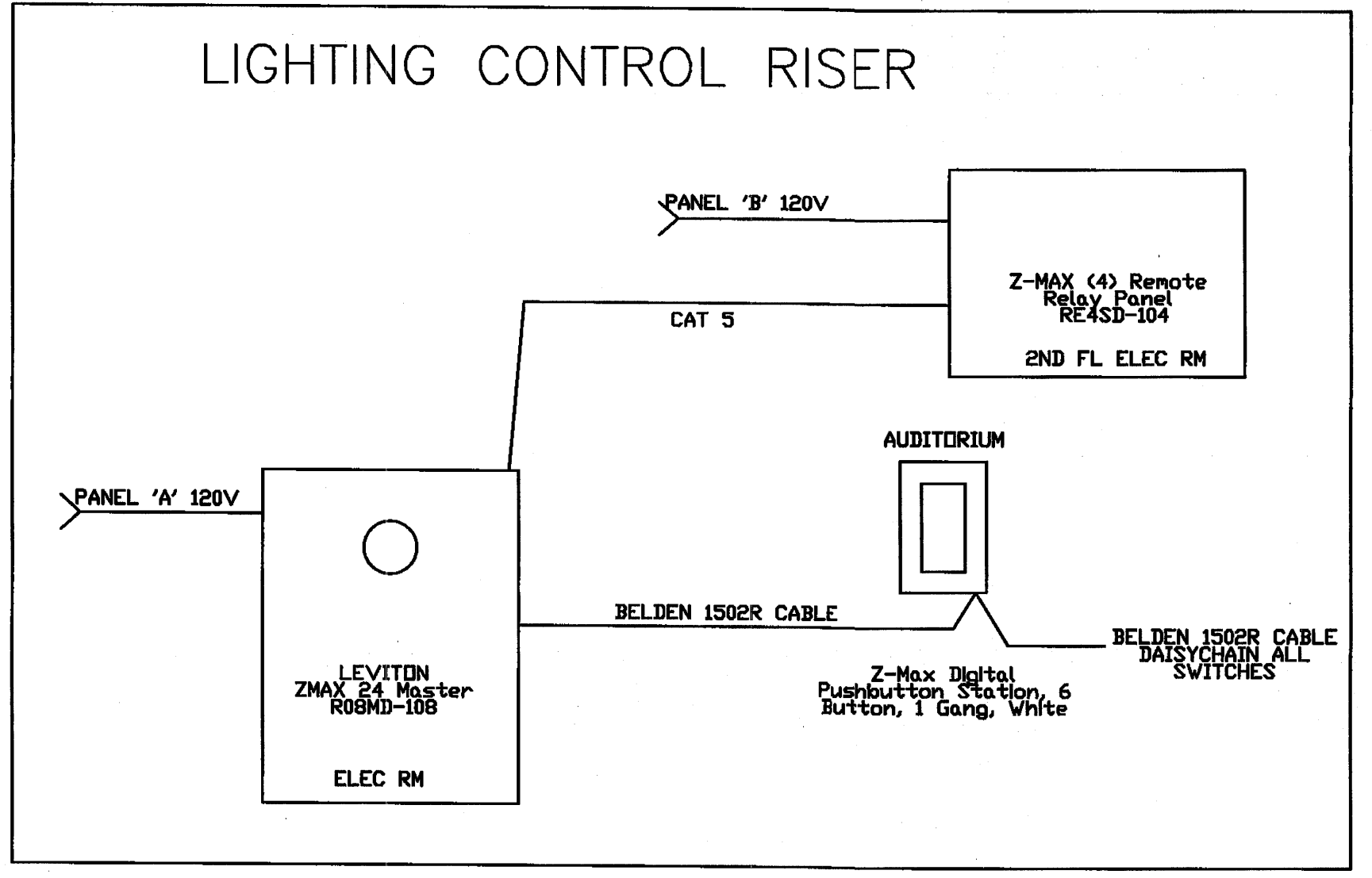
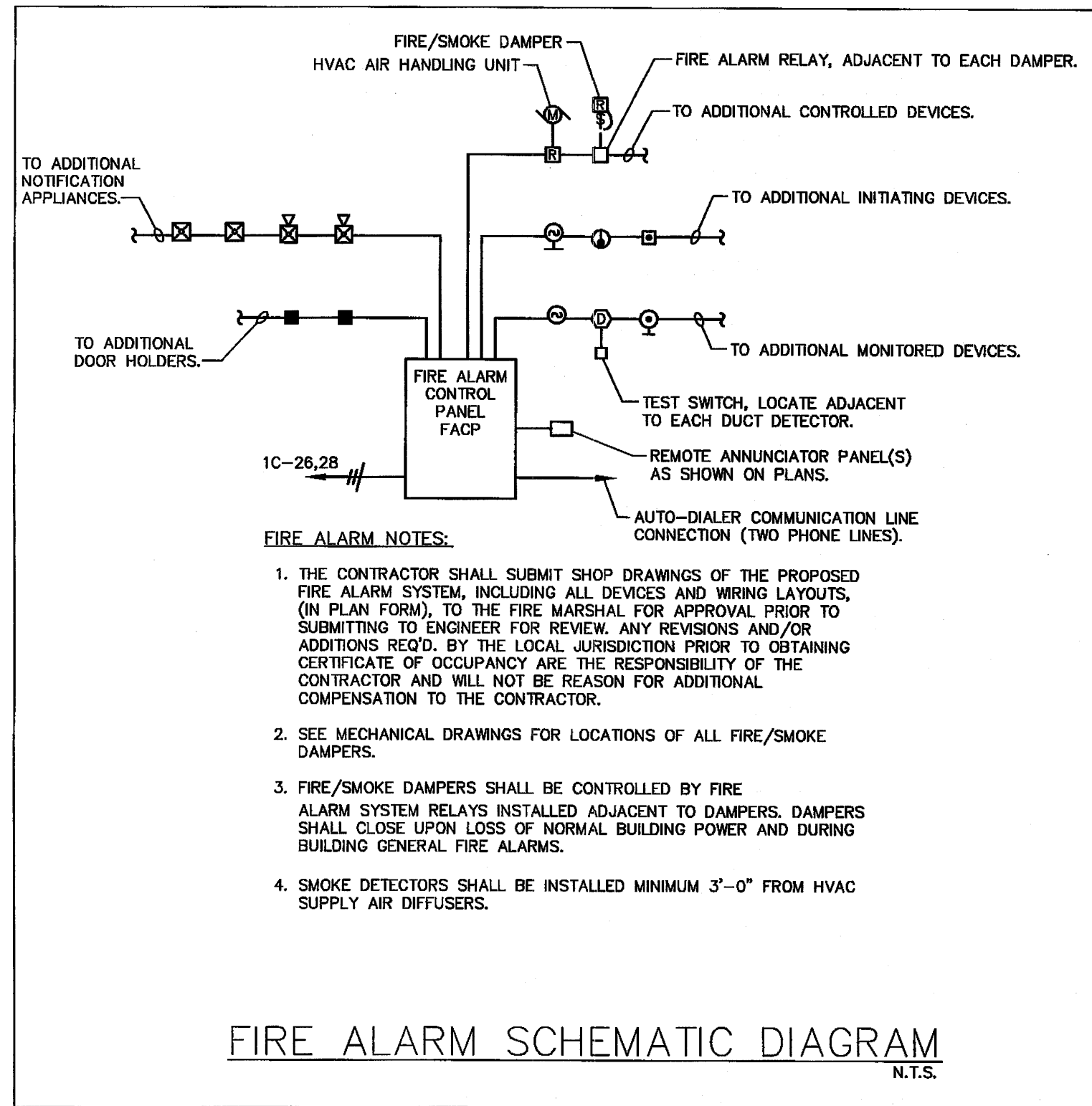
REV.	DATE	REMARKS
1-5-09	1-5-09	ISSUE FOR ISSUE ALARM BID

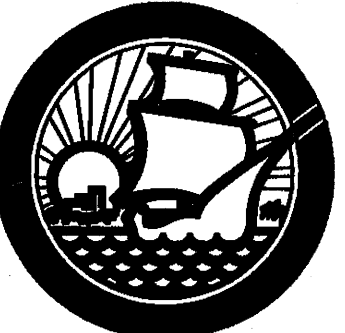
OLD PARRISH SCHOOL HOUSE  
12214 STATE ROAD 301  
PARRISH, FL.  
ELECTRICAL LEGEND

Project Number  
Drawn by  
Yehuda Inbar AIA  
Inbar architect AIA  
Checked by  
Al Meronek  
Date  
10-06-08  
Expires 2-28-2009  
Scale  
Set  
Drawing Number

SYM	MANUFACTURER/CATALOG NUMBER	LAMPS	MTG.	REMARKS
A	SHAPER LITHONIA COLUMBIA DAY-BRITE 233-SH-12-CFL/2/42-120-*	2-42 CFL 3500 K 82CRI	PENDANT AT 10'-6" AFF OR SURFACE WHEN HEIGHT IS LESS	12" SCHOOLHOUSE GLOBE SURFACE LIGHT FIXTURE
A1	SHAPER LITHONIA COLUMBIA DAY-BRITE 233-SH-12-CFL/1/42-120-*	1-42 CFL 3500 K 82CRI	PENDANT AT 10'-6" AFF OR SURFACE WHEN HEIGHT IS LESS	12" SCHOOLHOUSE GLOBE SURFACE LIGHT FIXTURE
A2	SHAPER LITHONIA COLUMBIA DAY-BRITE 233-SH-12-CFL/2/42-120-0M-*	2-42 CFL 3500 K 82CRI	PENDANT AT 10'-6" AFF OR SURFACE WHEN HEIGHT IS LESS	12" SCHOOLHOUSE GLOBE SURFACE LIGHT FIXTURE WITH DIMMING BALLAST
B	SPT LIGHTING RHP-1022- (2) 50W G11-INDIRECT (4) 50W G11-DIRECT	8-50W G11 GE LAMP	PENDANT AT 12" AFF	RENAISSANCE INTERIOR PENDANT
C	METALLUX LITHONIA COLUMBIA DAY-BRITE W-2-32-A-120-EBB1	2-32 FL 3500 K 82CRI	SURFACE	2' X 4' 2 LAMPS, SURFACE WRAPAROUND
C1	METALLUX LITHONIA COLUMBIA DAY-BRITE W-2-32-A-EMERGENCY-120-EBB1	2-32 FL 3500 K 82CRI	SURFACE	2' X 4' 2 LAMPS, SURFACE WRAPAROUND WITH EMERGENCY BALLAST, 1100 LUMENS MINIMUM
D	PORTFOLIO LITHONIA COLUMBIA DAY-BRITE HD6-6700-LJ	1-150W A21	RECESSED	6" MEDIUM BEAM RECESSED DOWNLIGHT
E	LITHONIA METALLUX COLUMBIA DAY-BRITE AFV-32TRT-6AR-120	1-32 TRT 3500 K 82CRI	RECESSED	6" APERTURE VERTICAL FLUORESCENT DOWNLIGHT SPECULAR FINISH
F	SPT LIGHTING AIC1212 1 F22T5 CIRC/ 1 CFTR70W/GX24Q-120	1 F22T5 CIRC/ CFTR70W/GX24Q	SURFACE	ADVENT SAVANNAH LISTED FOR DAMP LOCATION
G	LITHONIA METALLUX COLUMBIA DAY-BRITE LGF-1/32TRT-6RW-FOL-MVOLT	1-32 TRT 4100 K 82CRI	RECESSED	6" SHOWER COMPACT FLUORESCENT DOWNLIGHT
H	LUMARK LITHONIA COLUMBIA DAY-BRITE MP-4F-175-120	1-175 MH	WALL	TRIBUTE METAL HALIDE WALL FIXTURE
I	LUMARK LITHONIA COLUMBIA DAY-BRITE IC-VW-1-G	1-100W A19	SURFACE ON WALL	VAPOR PROOF INCANDESCENT PIT LIGHT WITH GUARD
J	LITHONIA LITHONIA COLUMBIA DAY-BRITE 2SPG 3 32 120	3-32W-T8	GRID	2X4 LENSED LAY-IN
K	LITHONIA LITHONIA COLUMBIA DAY-BRITE 2SPG 2 32 120	2-32W-T8	GRID	2X4 LENSED LAY-IN
X	LITHONIA METALLUX COLUMBIA DAY-BRITE LQM-S-W-R-120	LED BY MFR.	CEILING OR WALL OR PENDANT	LED THERMOPLASTIC EXIT LIGHT
EM	SURE-LITES LITHONIA COLUMBIA DAY-BRITE AEL-1SD	6W-BY-MFR.	WALL	* - FACES ARE INDICATED ON ELECTRICAL LIGHTING PLAN EMERGENCY LIGHT W/ SELF DIAGNOSTIC
EM WP	LITHONIA METALLUX COLUMBIA DAY-BRITE AFN-W-EXT	2-8W BY MFR.	SURFACE ON WALL	EMERGENCY LIGHT, UL LISTED FOR WET LOCATION

LOW VOLTAGE CABLE SYSTEM W/ DIMMING BALLAST. LOCATE TRANSFORMER ABOVE CEILING.





Facilities Management

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REV.	DATE	REMARKS
1-5-09		ISSUE FOR FIRE ALARM

OLD PARRISH SCHOOL HOUSE  
12214 STATE ROAD 301  
PARRISH, FL.  
ELECTRICAL LEGEND

Project Number

Drawn by  
Yehuda Inbar AIA  
Inbar architect AIA

Checked by  
Al Meronek

Date 10-06-08

Expires 2-28-2009

Scale

Set

Drawing Number

E-7

ORIGINAL

PANEL A		SURFACE MOUNTED 120/240 VOLT 1 PHASE 3 WIRE WITH GROUND & ISOLATED GROUND BAR										200A MLO NEMA 1 22,000 AIC					
NOTES	CKT. NO.	DESCRIPTION	BREAKER			A			B			BREAKER			DESCRIPTION	CKT. NO.	NOTES
			TRIP	POLE	VOLT	TRIP	VOLT	POLE	TRIP	TRIP	VOLT	POLE	TRIP	TRIP			
5	1	REFRIGERATOR	20	1	120	1000	720								RECEPT HALL, LOBBY	2	2
5	3	REFRIGERATOR	20	1	120	1000	400								DRINKING FOUNTAIN	4	5
5	5	REFRIGERATOR	20	1	120	1000	360								DATA RECEPTS OFFICE 110, 111(*)	6	2
2	7	RECEPTS BREAK COUNTER	20	1	120	360	360								DATA RECEPTS OFFICE 109(*)	8	2
2	9	RECEPTS BREAK COUNTER	20	1	120	360	720								RECEPTS 109, 110, 111	10	2
5	11	DISPOSAL	20	1	120	800	360								GFI RECEPTS MENS RESTROOM	12	2
2	13	RECEPTS GENERAL	20	1	120	1080	900								RECEPTS GENERAL	14	2
2	15	GFI RECEPTS WOMENS RESTROOM	20	1	120	360	180								RECEPTS ELEVATOR ROOM	16	2
2	17	ELEVATOR QUAD (*)	20	1	120	360	180								ELEVATOR PIT RECEPTACLE	18	2
2	19	DATA RECEPTS OFFICE 114(*)	20	1	120	360	100								DATA RECEPTS LOBBY 103(*)	20	2
2	21	DATA RECEPTS OFFICE 112 & 113(*)	20	1	120	360	100								PIT LIGHT	22	1
2	23	RECEPTS 112, 113, 114	20	1	120	720	240								FLAG POLE (*)	24	1
2	25	DATA RECEPTS OFFICE 125(*)	20	1	120	180	400								LIGHTS DRESSING HALL	26	1
2	27	RECEPTS GENERAL	20	1	120	720	1500								LIGHTS OUTSIDE (**)	28	1
2	29	DATA RECEPTS AUDITORIUM 120(*)	20	1	120	180	1000								LIGHTS HALLWAY & ENTRY (**)	30	1
2	31	DATA RECEPTS STAGE 121(*)	20	1	120	360	1000								LIGHTS 103, MENS, WOMENS, ELVRM	32	1
2	33	RECEPTS STAGE, DRESS, HALL	20	1	120	900	1500								LIGHTS 109, 110, 111, 112, 113, 114	34	1
5	35	PROJECTOR SCREEN	20	1	120	700	1300								LIGHTS 119, WOMENS, BREAK	36	1
5	37	PROJECTOR SCREEN	20	1	120	700	1400								LIGHTS STAGE (**)	38	1
5	39	SSIGNAGE (*)	20	1	120	1500	1200								LIGHTS AUDITORIUM (**)	40	1
4	41	SPARE	20	1	120	1500									LIGHTS AUDITORIUM (**)	42	1
CONNECTED VA SYSTEM VOLTS			120/240V, 1 PHASE			14900			13610			11980			13440		
PHASE AMPS			124			113			117			112			119		
NOTES			LOAD TYPE			CONNECTED			NEC DEMAND			DEMAND LOAD			NOTES ( )		
1 LIGHTING			0			11150			1.25			13938			VA		
2 RECEPTS			0			10280			1			10130			VA		
3 AIR CONDITIONING			0			0			0			0			VA		
4 HEATING			0			0			0			0			VA		
5 MISC. NON-CONTINUOUS			0			7100			1			7100			VA		
6 CONTINUOUS			0			0			1.25			0			VA		
7 KITCHEN			0			0			0.65			0			VA		
						TOTAL						31168			VA		
						120/240V, 1 PHASE						130			AMPS		

PANEL B		SURFACE MOUNTED 120/240 VOLT 1 PHASE 3 WIRE WITH GROUND & ISOLATED GROUND BAR										200A MLO NEMA 1 22,000 AIC					
NOTES	CKT. NO.	DESCRIPTION	BREAKER			A			B			BREAKER			DESCRIPTION	CKT. NO.	NOTES
			TRIP	POLE	VOLT	TRIP	VOLT	POLE	TRIP	TRIP	VOLT	POLE	TRIP	TRIP			
1	1	LIGHTS RM 208	20	1	120	1200	720								DATA RECEPTS RM 212 (*)	2	2
1	3	LIGHTS RM 209	20	1	120	1200	900								RECEPTS RM 203, 212, 213	4	2
1	5	LIGHTS RM 210	20	1	120	1200	900								DATA RECEPTS RM 213 (*)	6	2
1	7	LIGHTS RM 212	20	1	120	900	900								DATA RECEPTS RM 208 & 213 (*)	8	2
1	9	LIGHTS RM 213	20	1	120	1500	180								GFI RECEPTACLE MENS	10	2
1	11	LIGHTS RM 203, 205, 206	20	1	120	800	180								ELEVATOR RECEPTACLE	12	2
1	13	LIGHTS STAIRWELLS (**)	20	1	120	400	720								DATA RECEPTS RM 208 (*)	14	2
1	15	LIGHTS HALL (**)	20	1	120	400	720								DATA RECEPTS RM 209, 210 (*)	16	2
	17	SPARE	20	1	120	720									DATA RECEPTS RM 209, 210 (*)	18	2
	19	SPARE	20	1	120	720									DATA RECEPTS RM 210 (*)	20	2
	21	SPARE	20	1	120	540									RECEPTS HALL	22	2
	23	SPARE	20	1	120	720	5000								WATER HEATER	24	5
	25	SPARE	20	1	120	5000									---	26	5
	27	SPARE	20	1	120	1000									RECIRC PUMP	28	5
	29	SPARE	20	1	120	900									RECEPTS RM 208, 209, 210	30	2
	31	SPARE	20	1	120	120									SPARE	32	
	33	SPARE	20	1	120	120									SPARE	34	
	35	SPARE	20	1	120	120									SPARE	36	
	37	SPARE	20	1	120	120									SPARE	38	
	39	SPARE	20	1	120	120									SPARE	40	
	41	SPARE	20	1	120	120									SPARE	42	
CONNECTED VA SYSTEM VOLTS			120/240V, 1 PHASE			11980			13440			117			112		
PHASE AMPS						117			112						119		
NOTES			LOAD TYPE			CONNECTED			NEC DEMAND			DEMAND LOAD			NOTES ( )		
1 LIGHTING			0			7600			1.25			9900			VA		
2 RECEPTS			0			8100			1			8100			VA		
3 AIR CONDITIONING			0			0			0			0			VA		
4 HEATING			0			0			0			0			VA		
5 MISC. NON-CONTINUOUS			0			11000			1			11000			VA		
6 CONTINUOUS			0			0			1.25			0			VA		
7 KITCHEN			0			0			0.65			0			VA		
						TOTAL						28600			VA		
						120/240V, 1 PHASE						119			AMPS		

PANEL AC1		SURFACE MOUNTED 120/240 VOLT 3 PHASE 4 WIRE WITH GROUND LABEL THIS PANEL "TURN-OFF MAIN CIRCUIT BREAKER WHEN WORKING ON ANY DEVICES SERVED BY THIS PANEL."										125A MCB NEMA 1								
NOTES	CKT. NO.	DESCRIPTION	BREAKER			A			B			C			BREAKER			DESCRIPTION	CKT. NO.	NOTES
			TRIP	POLE	VOLT	TRIP	VOLT	POLE	TRIP	TRIP	VOLT	POLE	TRIP	TRIP	VOLT	POLE	TRIP			
3	1	CU-1	70	3	240	6600	400										AHU-1.1	2	3	
3	3	---				6600	400										---	4	3	
3	5	---				6600	400										AHU-1.2	6	3	
	7	---				400											---	8	3	
	9	---				400											AHU-1.3	10	3	
	11	---				400											---	12	3	
	13	---				400											AHU-1.4	14	3	
	15	---				400											---	16	3	
	17	---															---	18		
CONNECTED VA SYSTEM VOLTS			120/208V, 3 PHASE			7800			7800			7400			7800			7800		
PHASE AMPS						65			65			62			65			62		
NOTES			LOAD TYPE			CONNECTED			NEC DEMAND			DEMAND LOAD			NOTES ( )					
1 LIGHTING			0			0			1.25			0			0			VA		
2 RECEPTS			0			0			1			0			0			VA		
3 AIR CONDITIONING			0			23000			1			23000			VA			IS LARGER		
4 HEATING			0			0			0			0			0			VA		
5 MISC. NON-CONTINUOUS			0			0			1			0			0			VA		
6 CONTINUOUS			0			0			1.25			0			0			VA		
7 KITCHEN			0			0			0.65			0			0			VA		
						TOTAL						23000			VA					
						120/208V, 3 PHASE						64			AMPS					

PANEL AC2		SURFACE MOUNTED 120/240 VOLT 3 PHASE 4 WIRE WITH GROUND LABEL THIS PANEL "TURN-OFF MAIN CIRCUIT BREAKER WHEN WORKING ON ANY DEVICES SERVED BY THIS PANEL."										125A MCB NEMA 1								
NOTES	CKT. NO.	DESCRIPTION	BREAKER			A			B			C			BREAKER			DESCRIPTION	CKT. NO.	NOTES
			TRIP	POLE	VOLT	TRIP	VOLT	POLE	TRIP	TRIP	VOLT	POLE	TRIP	TRIP	VOLT	POLE	TRIP			
3	1	CU-2	70	3	240	6600	400										AHU-2.1	2	3	
3	3	---				6600	400										---	4	3	
3	5	---				6600	400										AHU-2.2	6	3	
	7	---				400											---	8	3	
	9	---				400											AHU-2.3	10	3	
	11	---				400											---	12	3	
	13	---				400											AHU-2.4	14	3	
	15	---				400											---	16	3	
	17	---															---	18		
CONNECTED VA SYSTEM VOLTS			120/208V, 3 PHASE			7800			7800			7400			7800			7800		
PHASE AMPS						65			65			62			65			62		
NOTES			LOAD TYPE			CONNECTED														





REV.	DATE	REMARKS
1	12-15-09	Issue 2014 FIRE ALARM 2012

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**ELECTRICAL SPECIFICATIONS**

A. THE WORK, APPARATUS AND MATERIALS WHICH SHALL BE FURNISHED UNDER THESE SPECIFICATIONS AND ACCOMPANYING DRAWINGS SHALL INCLUDE ALL ITEMS SPECIFIED HEREINAFTER AND SHOWN ON THE DRAWINGS. ALL OTHER MATERIALS NECESSARY FOR THE COMPLETE INSTALLATION SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR TO PROVIDE COMPLETE ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN.

B. THE CONTRACTOR SHALL EXTEND THE SERVICE FROM THE POINT OF SERVICE ATTACHMENT FURNISHING ALL PROTECTIVE DEVICES, CONDUCTORS, SUPPORTS, RACEWAYS, ETC. TO PROVIDE COMPLETE INTERIOR ELECTRICAL SYSTEMS TO SERVE MOTOR LOADS, LIGHTING LOADS AND MISCELLANEOUS ELECTRICAL LOADS, AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREINAFTER. THE WORK SHALL INCLUDE COMPLETE TESTING OF ALL EQUIPMENT AND WIRING AT THE COMPLETION OF THE WORK AND MAKING ANY MINOR CONNECTION CHANGES OR ADJUSTMENTS NECESSARY FOR THE PROPER FUNCTIONING OF THE SYSTEM AND EQUIPMENT. ALL WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY AND NO SUBSTANDARD WORK WILL BE ACCEPTED.

C. VERIFY CONDITIONS AT THE FIELD PRIOR TO PRICING THE JOB. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL DETAILS OF THE WORK AND EXISTING CONDITIONS.

D. CONTRACTOR SHALL REFER TO INTERIOR ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS AND/OR LOCATIONS OF ALL LIGHTING FIXTURE SWITCHES, OUTLETS AND WIRING DEVICES AND SHALL PERFORM ALL WORK NOTED ON PLANS, IN NOTES OR IN DETAILS RELATED TO ELECTRICAL.

**CODES**

A. THE WORK UNDER THE REQUIREMENTS OF THESE SPECIFICATIONS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE. THE INSTALLATION SHALL ALSO COMPLY WITH ALL APPLICABLE RULES AND REGULATIONS OF LOCAL AND STATE LAWS AND ORDINANCES.

**INTERFERENCES**

A. THE PLANS ARE GENERALLY DIAGRAMMATIC AND THE CONTRACTOR SHALL COORDINATE THE WORK WITH THE DIFFERENT TRADES SO THAT INTERFERENCES BETWEEN CONDUITS, PIPING, EQUIPMENT, ARCHITECTURAL AND STRUCTURAL WORK WILL BE AVOIDED. ALL NECESSARY OFFSETS IN RACEWAYS, FITTINGS, ETC. REQUIRED TO PROPERLY INSTALL THE WORK SHALL BE WIRING SO AS TO TAKE UP A MINIMUM SPACE, AND ALL MATERIALS REQUIRED TO ACCOMPLISH THIS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE OWNER. IN CASE INTERFERENCE DEVELOPS, THE OWNER'S AUTHORIZED REPRESENTATIVE WILL DECIDE WHICH EQUIPMENT, PIPING, ETC. MUST BE RELOCATED, REGARDLESS OF WHICH WAS INSTALLED FIRST.

**MATERIALS**

A. IN GENERAL, MATERIALS AND APPARATUS SHALL COMPLY WITH ALL APPLICABLE TESTS, RATINGS, SPECIFICATIONS, AND REQUIREMENTS OF THE IEEE AND NEMA AND SHALL BEAR THE APPROVED DEVICE LABEL OF THE UNDERWRITERS' LABORATORIES, INC.

B. ANY MATERIAL OR PRODUCT SPECIFIED HEREIN OR ON THE DRAWINGS BY MANUFACTURER AND CATALOG NUMBER AFTER WHICH THE TERM "OR EQUAL" DOES NOT APPEAR SHALL BE INTERPRETED AS LIMITING SUCH ITEMS BY A PREDETERMINED SELECTION AS STATED. IN SUCH INSTANCES NO SUBSTITUTIONS WILL BE ALLOWED. ANY MANUFACTURER AND CATALOG NUMBER FOLLOWED BY THE TERM "OR EQUAL" SHALL BE INTERPRETED TO MEAN EQUAL IN QUALITY, VALUE, AND INTEGRAL PROPERTIES AND SIMILAR IN APPEARANCE, DESIGN, AND FUNCTIONS. THE CONTRACTOR MAY IN THESE INSTANCES AFTER OBTAINING WRITTEN APPROVAL OF THE OWNER, SUBSTITUTE MATERIALS OR PRODUCTS OTHER THAN THE ONE NAMED.

C. THE CONTRACTOR SHALL SUBMIT A LIST OF PRINCIPAL MATERIAL ITEMS, GIVING MANUFACTURER'S NAMES AND CATALOG NUMBERS. APPROVAL OF THE LIST SHALL BE OBTAINED FROM THE OWNER BEFORE ORDERS ARE PLACED.

**GUARANTEE**

A. CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION. CONTRACTOR SHALL RECTIFY ANY DEFECTS DUE TO FAULTY MATERIALS OR WORKMANSHIP AND PAY FOR ANY DAMAGE TO OTHER WORK RESULTING THEREFROM WITHIN SAID PERIOD. THE OWNER WILL GIVE NOTICE OF DEFECTS WITH REASONABLE PROMPTNESS.

**IDENTIFICATION OF EQUIPMENT**

A. IDENTIFICATION OF EQUIPMENT SHALL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT INSTALLED BY THE CONTRACTOR. ENGRAVED LAMINATED PLASTIC NAMEPLATES SHALL BE PROVIDED AND IDENTIFICATION SHALL CLEARLY DESCRIBE THE EQUIPMENT AND FUNCTION, COORDINATE NAMES ABBREVIATIONS AND OTHER DESIGNATIONS USED IN ELECTRICAL IDENTIFICATION WORK WITH CORRESPONDING DESIGNATIONS SHOWN, SPECIFIED OR SCHEDULED. PROVIDE NUMBERS, LETTERS AND WORDING AS INDICATED OR IF NOT OTHERWISE INDICATED, AS RECOMMENDED BY MANUFACTURER OR AS REQUIRED FOR PROPER IDENTIFICATION AND MAINTENANCE OF ELECTRICAL SYSTEMS AND EQUIPMENT.

B. INSTALL LABEL TAGS ON ALL WIRE AND CABLE IN JUNCTION BOXES, WIREWAYS AND WIRING GUTTERS OF PANELS. TAGS SHALL IDENTIFY WIRE OR CABLE CIRCUIT NUMBER AND/OR EQUIPMENT SERVED AS SHOWN ON DRAWINGS.

C. ALL JUNCTION BOXES TO BE DESIGNATED WITH PERMANENT MARKER INDICATING PANELBOARD AND CIRCUIT NUMBERS OF BRANCH CIRCUIT WIRING CONTAINED WITHIN.

D. PANELBOARD DIRECTORIES SHALL BE UPDATED/TYPED WITH ACCURATE AND CURRENT INFORMATION BY THE CONTRACTOR AT THE END OF CONSTRUCTION. DIRECTORIES SHALL REFLECT EXISTING UNCHANGED AND NEW RECORD CONDITIONS AND INCLUDE CIRCUIT NUMBER, TENANT NAME, TYPE AND LOCATION OF LOAD.

**RACEWAYS AND FITTINGS**

A. CONDUITS RUN EXPOSED ON EXTERIOR OF THE BUILDING OR BELOW GRADE SHALL BE RIGID STEEL CONDUIT. SCH 40 PVC CONDUIT IS ACCEPTABLE BELOW GRADE PROVIDED RIGID STEEL CONDUIT ELBOWS AND RISERS ARE USED.

B. ALL CONDUIT SHALL BE PROPERLY ALIGNED, GROUPED AND SUPPORTED. EXPOSED CONDUIT SHALL BE INSTALLED AT RIGHT ANGLES TO OR PARALLEL TO THE PRINCIPAL STRUCTURAL MEMBERS. ALL CONDUIT SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING 8 FEET. PROVIDE SUPPORT A MINIMUM OF 18" FROM BENDS AND OUTLET BOXES AND ON INTERVALS NOT TO EXCEED 8'-0". CONDUIT IS NOT TO SPAN ANY SPACE UNSUPPORTED. ALL CONDUIT SHALL BE SUPPORTED FROM STRUCTURE AND NOT FROM CEILING SUPPORT SYSTEM.

C. PROVIDE NYLON PULL CORD AND LEAVE IN PLACE IN EACH EMPTY CONDUIT.

D. THIN WALL CONDUIT:

1. THIN WALL CONDUIT SHALL BE UNDERWRITERS' APPROVED GALVANIZED ELECTRICAL METALLIC TUBING. COUPLINGS AND CONNECTORS FOR CONDUIT SHALL BE STEEL HEX-NUT, ZINC OR CADMIUM PLATED SET SCREW TYPE FITTINGS.

E. FLEXIBLE METALLIC CONDUIT:

1. FLEXIBLE METALLIC CONDUIT IN DRY LOCATIONS SHALL BE UNDERWRITERS' APPROVED, ZINC COATED, SINGLE STRIP TYPE. FITTINGS SHALL BE AS MANUFACTURED BY THOMAS AND BETTS "TITE-BITE", STRAIGHT OR ANGLE CONNECTORS OR APPROVED EQUAL.
2. FLEXIBLE CONDUIT IN DAMP OR WET LOCATIONS SHALL BE UNDERWRITERS' APPROVED FLEXIBLE, LIQUID-TIGHT METAL CONDUIT. FITTINGS SHALL BE AS MANUFACTURED BY APPLETON, CROUSE-HINDS OR THOMAS AND BETTS.

F. RIGID STEEL CONDUIT:

1. RIGID STEEL CONDUIT SHALL BE UNDERWRITERS' APPROVED HOT-DIP GALVANIZED, ZINC METALIZED, OR SHERADIZED. THE THREADED ENDS OF THE CONDUIT SHALL BE ZINC COATED AND SHALL BE THREADED TYPE. DOUBLE LOCK NUTS SHALL BE USED ON ALL CONDUIT TERMINATIONS EXCEPT THREADED HUBS.
2. ALL CONDUIT SHALL BE MADE UP TIGHT AND NO RUNNING THREADS WILL BE PERMITTED. "ERICSON" COUPLINGS BEING USED WHERE NECESSARY. ALL CONDUIT RUNS BELOW GRADE OR UNDER FLOORS ON GRADE SHALL BE GIVEN A HEAVY COAT OF ASPHALTIC TYPE PAINT.

**BOXES**

A. ALL BOXES SHALL BE RIGIDLY MOUNTED AND SHALL BE EQUIPPED WITH SUITABLE SCREW FASTENED COVERS. OPEN KNOCK-OUTS OR HOLES IN BOXES SHALL BE PLUGGED WITH A SUITABLE BLANKING DEVICE.

B. OUTLET BOXES FOR EXPOSED WALL MOUNTING, AND OUTDOOR INSTALLATIONS SHALL BE CAST METAL TYPE "TS" OR "TD" BOXES WITH SUITABLE GALVANIZED SHEET COVERS, OR CAST METAL WEATHERPROOF OR VAPOR TIGHT COVERS WHEN NOTED ON THE DRAWINGS. WEATHERPROOF RECEPTACLE COVERS SHALL HAVE SPRING HINGE LIDS.

**CONDUCTORS**

A. UNLESS OTHERWISE INDICATED, ALL BRANCH CIRCUIT CONDUCTORS SHALL BE NO. 12 AWG. BRANCH CIRCUITS RUN OVER 75 FEET IN LENGTH, MEASURING ONE WAY FROM THE FIRST OUTLET OF THE CIRCUIT TO THE PANEL, SHALL BE NO. 10 AWG FOR THE ENTIRE CIRCUIT.

B. SPLICES, TAPS AND ATTACHMENT FITTINGS AND LUGS SHALL BE ELECTRICALLY AND MECHANICALLY SECURE AND SOLDERLESS FOR CONDUCTORS SIZES NO. 8 AWG AND LARGER. THERE SHALL BE PLENTY OF SLACK CABLE IN BOXES, OUTLETS AND CABINETS TO INSURE THAT THERE IS NO BINDING AT THE BUSHINGS. ALL LUGS SHALL BE OF THE CORRECT SIZES FOR THE CONDUCTORS JOINED AND IN NO CASE SHALL STRANDS BE CUT FROM A CONDUCTOR IN ORDER TO FIT THE CONDUCTOR INTO A LUG. TAPING OF JOINTS SHALL BE WITH VINYL PLASTIC ELECTRICAL TAPE TO SECURE INSULATION STRENGTH EQUAL TO THAT OF THE CONDUCTORS JOINED.

C. ALL CONDUCTORS SHALL BE COPPER. CONDUCTOR INSULATION SHALL BE DUAL TYPE THHN/THWN 75 C (167 F) FOR DRY, DAMP & WET LOCATIONS. CONDUCTOR INSULATION WITH SINGLE TYPE MARKING THHN 90 C (194 F) MAY BE USED FOR DRY LOCATIONS ONLY. ALL CONDUCTORS SHALL BE COLOR CODED AS REQUIRED BY NEC AND FURTHER IDENTIFIED AND CODED AS SPECIFIED HEREINAFTER. COLOR CODING SHALL BE BY MEANS OF COLORED INSULATING MATERIAL, COLORED BRAID OR JACKET OVER THE INSULATION OR BY MEANS OF SUITABLE COLORED, PERMANENT, NON-AGING, INSULATING TAPE APPLIED TO CONDUCTORS AT EACH CABINET OR JUNCTION POINT. THE COLOR CODING SHALL BE ACCOMPLISHED AS THE CONDUCTORS ARE INSTALLED. THE FOLLOWING SYSTEMS OF COLOR CODING SHALL BE STRICTLY ADHERED TO:

- 1) ISOLATED GROUND LEADS: GREEN AND YELLOW
- 2) GROUND LEADS: GREEN
- 3) GROUNDED NEUTRAL LEADS: WHITE
- 4) 120/240 VOLT, UNGROUNDED PHASE WIRES: BLACK AND RED.

THE COLOR CODE ASSIGNED TO EACH PHASE WIRE SHALL BE CONSISTENTLY FOLLOWED THROUGHOUT.

NOTE: WHERE EXISTING BASE BUILDING COLOR CODING DIFFERS FROM COLOR CODING ASSIGNED HEREIN, CONTRACTOR SHALL USE EXISTING COLOR CODING AS REQUIRED TO MAINTAIN CONSISTENCY. ADVISE ENGINEER (IN WRITING) OF COLOR CODING TO BE USED.

D. ALL WIRING IN CEILING SPACE OR IN AIR HANDLING PLENUMS NOT IN CONDUIT SHALL BE UL LISTED AS SUITABLE FOR PLENUM USE.

E. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR AND MAKE ALL REQUIRED CONNECTIONS TO SERVE MECHANICAL EQUIPMENT FURNISHED.

F. MODIFY EXISTING ELECTRICAL WORK ABOVE THE CEILING SPACE (CONDUIT, WIRING, EQUIPMENT, BOXES, ETC.) TO COORDINATE WITH NEW LIGHTS AND HVAC WORK.

G. THE CONTRACTOR SHALL REMOVE ALL EXISTING WIRING AND EQUIPMENT MADE UNNECESSARY BY THE NEW INSTALLATION. ALL MATERIALS REMOVED AND NOT REUSED IN NEW TENANT RETROFIT. SHALL BE RETURNED TO BUILDING STOCK.

H. REUSE EXISTING JUNCTION BOXES, CONDUITS AND WIRING TO FEED RECEPTACLES AND LIGHTING FIXTURES WHERE APPLICABLE. REMOVE AND DISPOSE OF ALL UNUSED CONDUIT AND WIRING BACK TO LAST ACTIVE DEVICE OR PANEL.

I. ALL CONDUITS AND WIRING PENETRATING RATED FLOORS AND WALLS SHALL BE SEALED TO MAINTAIN FIRE RATING AND INTEGRITY OF SEPARATION.

**GROUNDING**

A. THE INTERIOR ELECTRICAL SYSTEMS SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED AS REQUIRED BY THE NEC AND AS SPECIFIED HEREINAFTER.

B. ALL METALLIC RACEWAYS SHALL BE MECHANICALLY AND ELECTRICALLY SECURE AT ALL JOINTS AND AT ALL BOXES, CABINETS, FITTINGS, AND EQUIPMENT. METALLIC RACEWAYS SHALL BE CONNECTED TO A DIRECT GROUND AT THE POINT OF ELECTRICAL SERVICE ENTRANCE AND SHALL BE ELECTRICALLY CONTINUOUS THROUGHOUT THE ENTIRE SYSTEM.

C. ALL GROUND CONDUCTORS SHALL BE INSULATED COPPER UNLESS OTHERWISE NOTED.

D. ALL RACEWAYS WITH NO. 10 OR 12 AWG PHASE CONDUCTORS FOR RECEPTACLES, LIGHTING FIXTURES AND SIMILAR CIRCUITS (NEW BRANCH CIRCUITS) SHALL BE PROVIDED WITH A PARTIY SIZED GREEN EQUIPMENT GROUND CONDUCTOR. GROUND CONDUCTOR SHALL BE INSTALLED IN ENTIRE RACEWAY SYSTEM INCLUDING WALL SWITCHES AND FLEXIBLE CONDUIT TO LIGHT FIXTURES. EQUIPMENT GROUND CONDUCTOR SIZES FOR CIRCUITS WITH PHASE CONDUCTORS LARGER THAN NO. 12 AWG ARE INDICATED ON DRAWINGS. GROUND CONDUCTORS SHALL BE CONNECTED TO GROUND BUSS IN PANELBOARDS.

E. TERMINATE FEEDER AND BRANCH CIRCUIT INSULATED EQUIPMENT GROUNDING CONDUCTORS WITH GROUNDING LUG, BUS, OR BUSHING. CONDUCTORS LOOPED UNDER SCREW OR BOLT HEADS WILL NOT BE PERMITTED.

F. INSTALL CLAMP-ON CONNECTORS ON CLEAN METAL CONTACT SURFACES TO ENSURE ELECTRICAL CONDUCTIVITY AND CIRCUIT INTEGRITY.

G. PROVIDE GROUNDING BUSHING AND A CONTINUOUS COPPER BONDING JUMPER FROM THE BUSHING TO THE EQUIPMENT GROUND BUS IN ALL FEEDERS. THE BONDING JUMPER SHALL BE THE SAME SIZE AS THE EQUIPMENT GROUND CONDUCTOR.

**CIRCUIT PROTECTIVE DEVICES**

A. GENERAL:

1. UNLESS OTHERWISE INDICATED, PROTECTIVE DEVICES SHALL BE MOUNTED WITH TOP OF CABINET OR ENCLOSURE 6" - 8" ABOVE FINISHED FLOOR. SHALL BE PROPERLY ALIGNED, AND SHALL BE ADEQUATELY SUPPORTED INDEPENDENTLY OF THE CONNECTING RACEWAYS, ALL STEEL SHAPES, ETC., NECESSARY FOR THE SUPPORT OF THE EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. UNLESS OTHERWISE INDICATED, ALL BRANCH CIRCUIT PROTECTIVE DEVICES ENCLOSURES SHALL BE NEMA TYPE I, GENERAL PURPOSE TYPE. CIRCUIT PROTECTIVE DEVICES INSTALLED OUTDOORS OR EXPOSED TO THE WEATHER SHALL HAVE WEATHERPROOF ENCLOSURES, NEMA TYPE 3R OR TYPE 4.
2. INSTALL DISCONNECT SWITCHES FOR USE WITH MOTOR-DRIVEN APPLIANCES, AND MOTORS AND CONTROLLERS WITHIN SIGHT OF CONTROLLER POSITION UNLESS OTHERWISE INDICATED.
3. SUBMIT MANUFACTURER'S DATA (MINIMUM 5 COPIES) ON CIRCUIT AND MOTOR DISCONNECT SWITCHES AND/OR MOTOR STARTERS. SUBMIT SHOP DRAWINGS IN BOOKLET FORM WITH SEPARATE SHEET FOR EACH DEVICE. PROVIDE EQUIPMENT IDENTIFICATION AS DESIGNATED ON PLANS FOR EACH SHOP DRAWING CUT SHEET SUBMITTED.

B. CIRCUIT BREAKERS:

1. CIRCUIT BREAKERS FOR MOUNTING IN EXISTING PANELBOARD SHALL BE MOLDED PLASTIC CASE, AIR CIRCUIT BREAKER TYPE. BREAKERS SHALL HAVE THERMAL MAGNETIC TRIP UNITS AND MULTI-POLE BREAKERS SHALL HAVE A COMMON TRIP BAR SO THAT THE TRIPPING OF ONE POLE WILL AUTOMATICALLY TRIP ALL POLES OF THE BREAKER. BREAKERS SHALL BE TRIP FREE AND TRIP INDICATING AND SHALL HAVE QUICK-MAKE, QUICK-BREAK CONTACTS.

C. SAFETY SWITCHES:

1. ALL SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE. SWITCH MECHANISM SHALL BE QUICK-MAKE, QUICK-BREAK. COVER SHALL BE INTERLOCKED WITH MECHANISM TO PREVENT OPENING UNLESS SWITCH IS IN THE "OFF" POSITION. ALL ENCLOSURES SHALL BE PRIMED AND FINISHED TO RESIST RUSTING AND CORROSION. SWITCHES SHALL BE ITE, GENERAL ELECTRIC, SQUARE-D, OR CUTLER-HAMMER. (MATCH BUILDING STANDARD WHERE APPLICABLE)

D. FUSES:

1. ALL FUSES FOR SWITCHES SHALL BE DUAL ELEMENT, CARTRIDGE TYPE. FUSES SHALL BE BUSSMAN "FUSETRON" OR CHASE SHAWMUT "TRIONIC". THE CONTRACTOR SHALL FURNISH AND INSTALL PROPER SIZE FUSES WHERE REQUIRED FOR ALL FUSIBLE EQUIPMENT AND SHALL FURNISH TO THE OWNER A DUPLICATE CARTRIDGE FOR EACH FUSE INSTALLED.

E. MOTOR STARTERS:

1. COMBINATION MAGNETIC FULL VOLTAGE STARTERS FOR 3 MOTORS SHALL BE THREE POLE ALSO BE INCLUDED IN THE ENCLOSURE. AN HOA SWITCH SHALL BE MOUNTED IN FRONT COVER. STARTERS SHALL BE SQUARE-D CLASS 8538.
2. MANUAL MOTOR STARTERS FOR 15V, 1 MOTORS (1) HORSEPOWER AND SMALLER, SHALL BE SINGLE POLE, HORSEPOWER RATED SWITCHES WITH THERMAL OVERLOAD UNITS AND HEATERS. STARTERS SHALL BE SQUARE-D CLASS 2510, WITH STAINLESS STEEL COVER PLATES.
3. MAGNETIC FULL VOLTAGE STARTERS FOR 3 MOTORS SHALL BE THREE POLE, HORSEPOWER RATED, MAGNETICALLY OPERATED WITH THREE THERMAL OVER LOAD UNITS AND FOUR EXTRA AUXILIARY HAND-OFF-AUTOMATIC, HOA SWITCH SHALL BE MOUNTED IN FRONT COVER. STARTERS SHALL BE SQUARE-D CLASS 8536.

**PANELBOARDS:**

A. PANELBOARDS SHALL BE CONNECTED DISTRIBUTED PHASE WITH CIRCUIT NUMBERING AS INDICATED ON THE DRAWINGS. PANELBOARDS SHALL HAVE CIRCUIT DIRECTORY CARDS SHALL BE COMPLETED WITH A TYPEWRITER BY THE CONTRACTOR TO INDICATE NEW AND EXISTING AREAS AND/OR DEVICES SERVED BY EACH CIRCUIT.

B. CIRCUIT BREAKERS FOR MOUNTING IN NEW AND EXISTING PANELBOARDS OR DISTRIBUTION SECTION OF SWITCHBOARD SHALL BE MOLDED PLASTIC CASE, AIR CIRCUIT BREAKER TYPE. BREAKERS SHALL HAVE THERMAL-MAGNETIC TRIP UNITS AND MULTI-POLE BREAKERS. BREAKERS SHALL HAVE A COMMON TRIP BAR, SO THAT THE TRIPPING OF ONE POLE WILL AUTOMATICALLY TRIP ALL POLES OF THE BREAKER. BREAKERS SHALL BE TRIP FREE AND TRIP-INDICATING AND SHALL HAVE QUICK-MAKE, QUICK-BREAK CONTACTS.

C. PANELBOARDS SHALL BE INSTALLED COMPLETE WITH CONNECTORS AND ASSOCIATED HARDWARE FOR ALL CIRCUIT BREAKERS AND SPACES LISTED IN THE PANELBOARD SCHEDULE.

D. WHEN CONNECTING EQUIPMENT TO EXISTING PANELBOARDS, THE NEW AND EXISTING CIRCUIT BREAKERS SHALL BE IDENTIFIED. A NEW CIRCUIT DIRECTORY CARD SHALL BE PROVIDED.

E. PANELBOARDS TO BE DEADFRONT TYPE, WITH COPPER BUS BARS, WITH BOLT-ON TYPE BRANCH CIRCUIT BREAKERS EQUAL TO SQUARE-D TYPE NQDD, NF, OR I-LINE AS APPLICABLE. ALL CIRCUIT BREAKERS SHALL BE CONCEALED BEHIND A HINGED, LOCKABLE DOOR INSTALLED ON THE FRONT PANELBOARD COVER.

F. ALL PANELBOARDS TO BE IDENTIFIED WITH ENGRAVED PLASTIC LAMINATE SIGNS. COORDINATE NAMES USED FOR IDENTIFICATION WITH CORRESPONDING DESIGNATIONS SHOWN, SPECIFIED OR SCHEDULED. FASTEN WITH SELF TAPPING STAINLESS STEEL SCREWS, OR CONTACT TYPE PERMANENT ADHESIVE WHERE SCREWS CAN NOT OR SHOULD NOT PENETRATE SUBSTRATE.

G. SUBMIT MANUFACTURER'S DATA ON PANELBOARDS AND ENCLOSURES. SHOP DRAWINGS SHALL INDICATE ARRANGEMENT OF BUSES, BRANCH CIRCUITS, ENCLOSURES, DIMENSIONS, ETC. (MINIMUM 5 COPIES) ACCEPTABLE MANUFACTURER'S: GE, SQUARE-D, SIEMENS AND CUTLER-HAMMER. (MATCH BUILDING STANDARD WHERE APPLICABLE.)

H. INSTALL PANELBOARDS AND ENCLOSURES AS INDICATED, IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, APPLICABLE REQUIREMENTS OF NEC STANDARDS AND NEC'S "STANDARDS OF INSTALLATION", AND IN COMPLIANCE WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT PRODUCTS FULFILL REQUIREMENTS.

**RECEPTACLES**

A. ALL RECEPTACLES SHALL BE THE GROUNDING TYPE WITH GROUND CONNECTION MADE THROUGH AN EXTRA POLE WHICH SHALL BE PERMANENTLY CONNECTED TO GROUND CONDUCTOR.

B. RECEPTACLES FOR 20 AMPERE, 120V SERVICE SHALL BE THREE-WIRE, TWO POLE RECEPTACLES RATED 20 AMPERES AT 120 VOLTS. ALL NEW RECEPTACLES SHALL BE THAT OF HUBBELL OR IEC-APPROVED EQUAL.

C. WHERE EXISTING RECEPTACLES ARE SHOWN TO BE REMOVED FROM PARTITIONS BEING REMOVED, CONTRACTOR SHALL MAINTAIN SERVICE TO REMAINING OUTLETS.

D. WALLPLATES: PROVIDE WALLPLATES FOR SINGLE AND COMBINATION WIRING DEVICES, OF TYPES, SIZES, AND WITH GANGING AND CUTOUPS AS INDICATED. SELECT PLATES WHICH MATE AND MATCH WIRING DEVICES TO WHICH ATTACHED. CONSTRUCT WITH METAL SCREWS FOR SECURING PLATES TO DEVICES; SCREW HEADS COLORED TO MATCH FINISH OF PLATES, WALLPLATES COLORED TO MATCH WIRING DEVICES.

E. ELECTRICAL CONTRACTOR SHALL CONFIRM RECEPTACLE CONFIGURATION, VOLTAGE, PHASE AND AMPERAGE FOR ALL EQUIPMENT FURNISHED AND INSTALLED FOR THIS WORK. ADVISE ENGINEER IF REQUIRED.

**LIGHTING FIXTURES:**

A. THE CONTRACTOR SHALL FURNISH AND INSTALL COMPLETE IN ALL RESPECTS ALL NEW AND RELOCATED LIGHTING FIXTURES SHOWN ON THE PLANS.

B. LIGHT FIXTURES SHALL BE SELECTED BY THE OWNER.

C. BALLASTS FOR FLUORESCENT LAMPS SHALL BE HIGH FREQUENCY ELECTRONIC FOR USE WITH OTIC TYPE (269MA) LAMPS. THE TOTAL HARMONIC DISTORTION (%THD) SHALL BE LESS THAN 20 POWER FACTOR SHALL BE .95 OR HIGHER.

ELECTRONIC BALLASTS FOR FLUORESCENT LAMPS SHALL BE OSRAM SYLVANIA, QUICKTRONIC. ALL BALLASTS SHALL BE INDIVIDUALLY FUSED ON THE LINE SIDE OF THE BALLAST. ALL BALLASTS SHALL BE ENERGY SAVING, HIGH POWER FACTOR TYPE AND SHALL BEAR ETL/CBM AND UL LABELS. % THE

D. T-8 AND T-5 FLUORESCENT LAMPS SHALL BE 4100K RAPID START, COMPACT FLUORESCENT LAMPS SHALL BE 4100K. INCANDESCENT LAMPS SHALL BE 120V, GENERAL PURPOSE TYPE. UNLESS OTHERWISE NOTED ALL LAMPS SHALL BE TOLP COMPLIANT AND MANUFACTURED BY OSRAM SYLVANIA. U-SHAPED LAMPS SHALL HAVE 6" SPACING BETWEEN ENDS.

E. ALL FIXTURES SHALL BE PROPERLY AND CAREFULLY SUPPORTED AND ALIGNED, AND THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY STEEL SHAPES, ETC., FOR SUPPORT OF FIXTURES AS REQUIRED AND DETAILED ON THE DRAWINGS. LIGHTING FIXTURES SHALL BE CLEAN AND NON-OPERATING LAMPS REPLACED WITH NEW LAMPS AT THE TIME OF FINAL INSPECTION.

F. CONTRACTOR SHALL WEAR PROTECTIVE COTTON GLOVES WHEN HANDLING FIXTURES WITH LOW RIDESCENT PARABOLIC LOUVERS. DO NOT HANDLE FIXTURES IN ANY WAY THAT WILL PUT FINGER PRINTS ON LOUVERS.

**GENERAL NOTES:**

1. ALL WORK SHALL BE PERFORMED DURING TIME PERIODS ACCEPTABLE TO THE OWNER. SCHEDULE ALL WORK WITH THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING.
2. THE CONTRACTOR SHALL PERFORM ALL TEMPORARY WORK NECESSARY TO MAINTAIN CONTINUITY OF ELECTRICAL SERVICE WHEN CONNECTION IS MADE TO EXISTING SYSTEMS AND FACILITIES. EXISTING SERVICE SHALL NOT BE INTERRUPTED WITHOUT PRIOR CONSENT OF THE OWNER'S REPRESENTATIVE AND MAY BE INTERRUPTED ONLY AT AND FOR THE SPECIFIED TIME DESIGNATED BY OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL BE GUIDED BY THE OWNER'S REPRESENTATIVE AT ALL TIMES IN MATTERS AFFECTING THE EXISTING FACILITIES.
3. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL INSURE THAT ALL SYSTEMS OPERATE AS DESIGNED AND REQUIRED AND SHALL REVIEW THEIR OPERATION WITH THE OWNER. COMPLETE SET OF AS-BUILT DRAWINGS SHALL BE COMPILED (BY THE CONTRACTOR) AND ISSUED (1 EACH) TO THE ARCHITECT AND BUILDING MAINTENANCE PERSONNEL UPON COMPLETION OF CONSTRUCTION AND TESTING.
4. UNLESS OTHERWISE NOTED, ALL ELECTRICAL DEMOLITION IS TO BE INCLUDED
5. THE CONTRACTOR SHALL COORDINATE ALL PHASING OF ELECTRICAL WORK TO CONCOIDE WITH PREVIOUS AND SUBSEQUENT PHASES OF THE REMODELING PROJECT. PROVISIONS SHALL BE MADE FOR THE CONTINUATION AND EXTENSIONS OF ALL CIRCUITS AND SYSTEMS AS REQUIRED AND INDICATED ON THE ELECTRICAL DRAWINGS.

	GRINER ENGINEERING, INC.	Date	10/24/2008
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