



BOARD OF EDUCATION

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DATE: December 15, 2011
TO: All Offerors
FROM: FCS Capital Program Contracts
RE: **RFSQ 503-12, Alpharetta ES – Boiler Installation**

Please find Addendum No. 1 to the subject solicitation attached.

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CAPITAL PROGRAM CONTRACTS

Addendum No. 1
RFSQ 503-12
Alpharetta ES – Boiler Installation

1. The following changes have been made to the above-referenced solicitation:

Add: Electrical Plans Attachment: for the installation of new electric panelboards and transformer.

Add: Supplemental Instructions to Contractors

2. All other terms and conditions remain the same.

Supplemental Instructions to Contractors

RFSQ # 503-12, Alpharetta ES – Boiler Installation

Project: Boilers and Cooling Tower Replacement

School: Alpharetta Elementary School

192 Mayfield Road

Alpharetta, Ga 30009

Item 1- Revise Scope of Work to identify phases of the work

RFSQ 503-12 - Phase 1 (performed during winter break, Dec 2011)

- i. Remove existing boilers, associated piping and devices
- ii. Install new boilers, piping and equipment
- iii. Install new electric panelboards and transformer

Future RFSQ- Phase 2 (performed during summer break, June 2012)

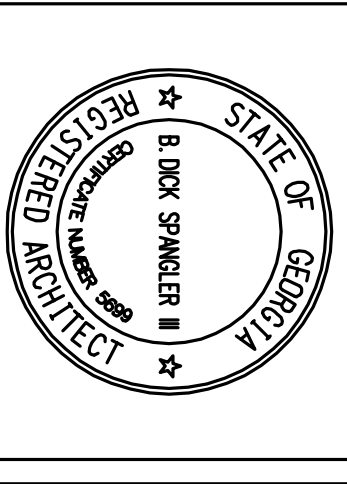
- iv. Remove existing cooling tower and associated piping and equipment
- v. Install new cooling tower and associated new piping and related equipment

DATE	DESCRIPTION
02/17/11	ADDENDUM NO. 1
03/09/11	ISSUED FOR CONSTRUCTION
10/18/11	ISSUED FOR CHANGE ORDER
12/7/11	BOILER INSTALLATION PKG.

ISSUANCES

REVISIONS
Δ 12/7/11

M Matheson - Ball & Associates, Inc.
 Engineering Consultants
 11288 ELKINS ROAD
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 OFFICE, GEORGIA 30224
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PROJECT:
 RENOVATIONS AND MODIFICATIONS TO ALPHARETTA ELEMENTARY SCHOOL
 CLIENT:
 FULTON COUNTY SCHOOLS

SHEET TITLE
 ELECTRICAL PLAN

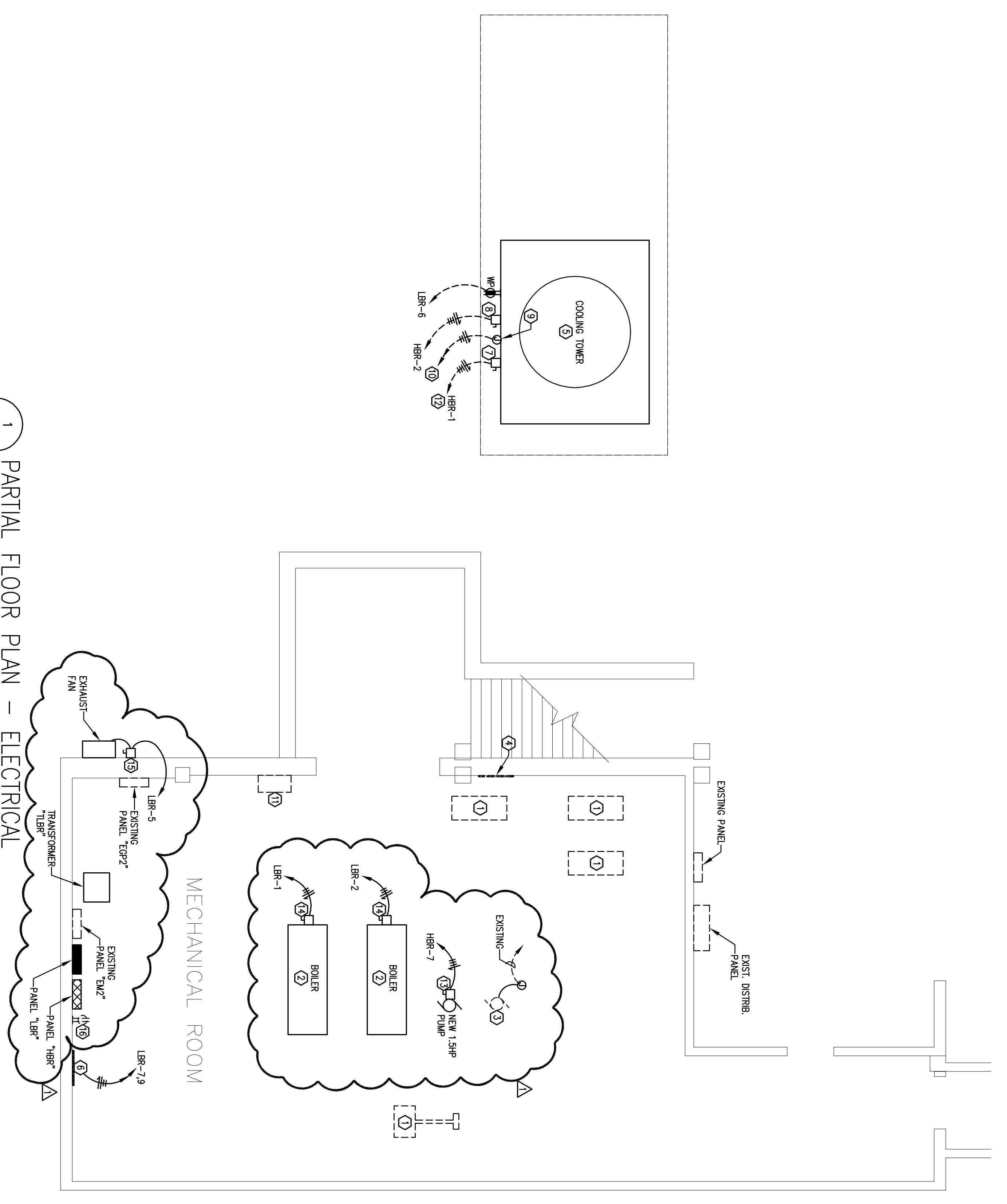
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 PROJECT NUMBER: 2010106
 DATE: 02/15/11
 SCALE: AS NOTED
 DRAWN BY: JPA
 CHECKED BY: JPA

SHEET NO. SDE2.1
 SHEET 1 OF 1

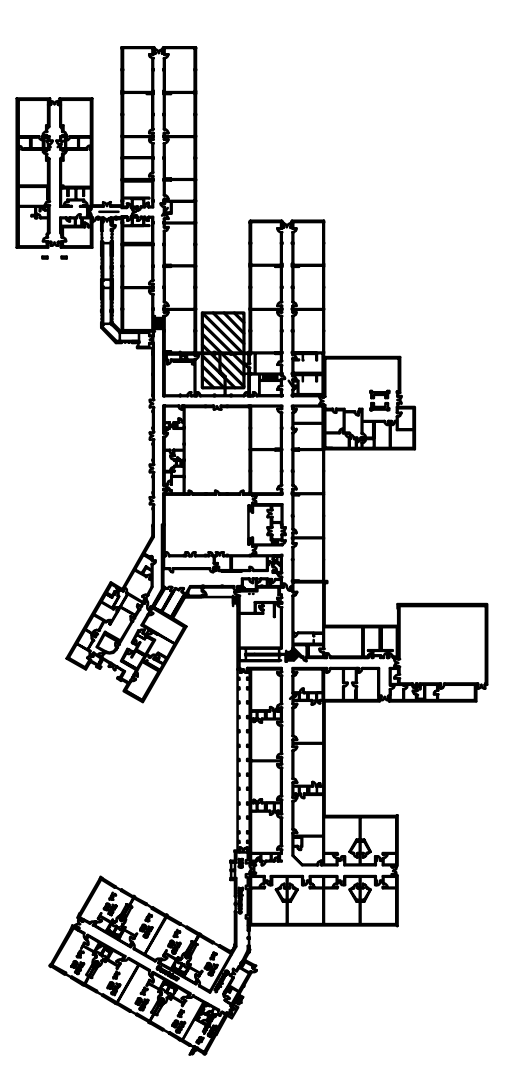
- NOTES:
- PROVIDE FUSES IN ALL DISCONNECT SWITCHES SERVING DIVISION 15 EQUIPMENT AND INDICATED AS FUSES. FUSES SHALL BE SIZED PER THE MAXIMUM FUSE SIZE RATING IN THE NAMEPLATE DATA.
 - COORDINATE EXACT LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUN-IN.
 - ALL UNUSED CONDUIT SHALL BE REMOVED. DO NOT ABANDON CONDUIT IN PLACE.

- KEYNOTES:
- EXISTING EQUIPMENT TO REMAIN.
 - EXISTING BOILER TO BE REPLACED. REMOVE THE EXISTING DISCONNECT SWITCH AND FEEDER BACK TO THE SOURCE. PROVIDE A NEW DISCONNECT SWITCH AND FEEDER AS INDICATED.
 - EXISTING PUMP TO BE RELOCATED. DISCONNECT FEEDER FROM EXISTING PUMP, AND EXTEND TO NEW PUMP LOCATION, AND TERMINATE.
 - EXISTING WATER TREATMENT SYSTEM TO BE REMOVED. REMOVE ELECTRICAL CIRCUIT BACK TO THE SOURCE.
 - EXISTING COOLING TOWER TO BE REPLACED WITH NEW. REMOVE EXISTING DISCONNECT SWITCHES AND FEEDERS SERVING THE TOWER FAN AND BASIN HEATER BACK TO THE SOURCES. PROVIDE NEW DISCONNECT SWITCHES AND FEEDERS AS INDICATED.
 - PROVIDE (2) 20A, 120V DUPLEX GFCI OUTLETS ON THE NEW WATER TREATMENT SYSTEM BACKBOARD.
 - PROVIDE 30A/2P/1P/USE/RT DISCONNECT SWITCH AND MAKE CONNECTION TO COOLING TOWER BASIN HEATER.
 - MAKE CONNECTION TO HEAT TAP. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUN-IN.
 - ROUTE 3W/2 & 1P/20 - 1/2" TO EXISTING EMERGENCY PANEL, TERT. PROVIDE (2) 30A/1P GFCI CIRCUIT BREAKERS AND TERMINATE THE CONDUCTORS.
 - EXISTING COOLING TOWER FAN VARIABLE FREQUENCY DRIVE (VFD).
 - ROUTE FEEDER THROUGH EXISTING COOLING TOWER FAN VFD (KEYNOTE 11), AND EXTEND TO PANEL TAP.
 - 30A/2P/1P/USE DISCONNECT SWITCH.
 - 30A/2P/1P/USE DISCONNECT SWITCH.
 - 30A/1P/1P/USE/RT DISCONNECT SWITCH.
 - RELOCATE EXISTING OUTLET AS REQUIRED FOR INSTALLATION OF NEW PANELS.

1 PARTIAL FLOOR PLAN - ELECTRICAL
 E2.1 SCALE: 1/4" = 1'-0"



SYMBOL SCHEDULE	
	120/208 VOLT PANELBOARD
	277/480 VOLT PANELBOARD
	JUNCTION BOX
	DUPLEX GFCI OUTLET WITH WEATHER PROOF COVER, 20A, 120V
	DISCONNECT OR SAFETY SWITCH, SIZE AS INDICATED ON THE DRAWINGS
	ELECTRIC MOTOR
	CONDUIT HANGERS (CROSS MARKS = # OF CONDUCTORS WHERE MORE THAN THREE)
	CONDUIT EMBEDDED OVERLAP IN FINISHED SPACES, EXPOSED IN UNFINISHED SPACES (U.A.O.)
	CONDUIT EMBEDDED IN THE SLAB OR BELOW GRADE.
	GROUND
	RAINTIGHT (NEMA 3R)
	ONE PHASE CONDUCTOR
	ONE NEUTRAL CONDUCTOR
	ONE EQUIPMENT GROUNDING CONDUCTOR

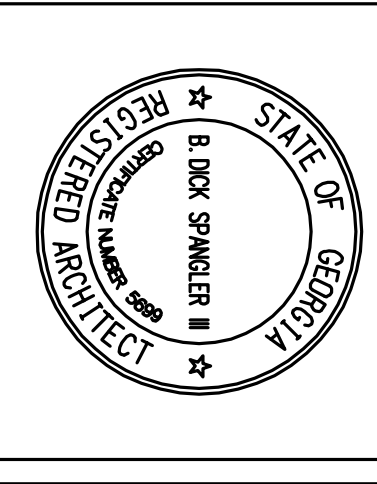


KEY PLAN

DATE	DESCRIPTION
02/17/11	ADDENDUM NO. 1
03/09/11	ISSUED FOR CONSTRUCTION
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12/7/11	BOILER INSTALLATION PKG.

REVISIONS
12/7/11

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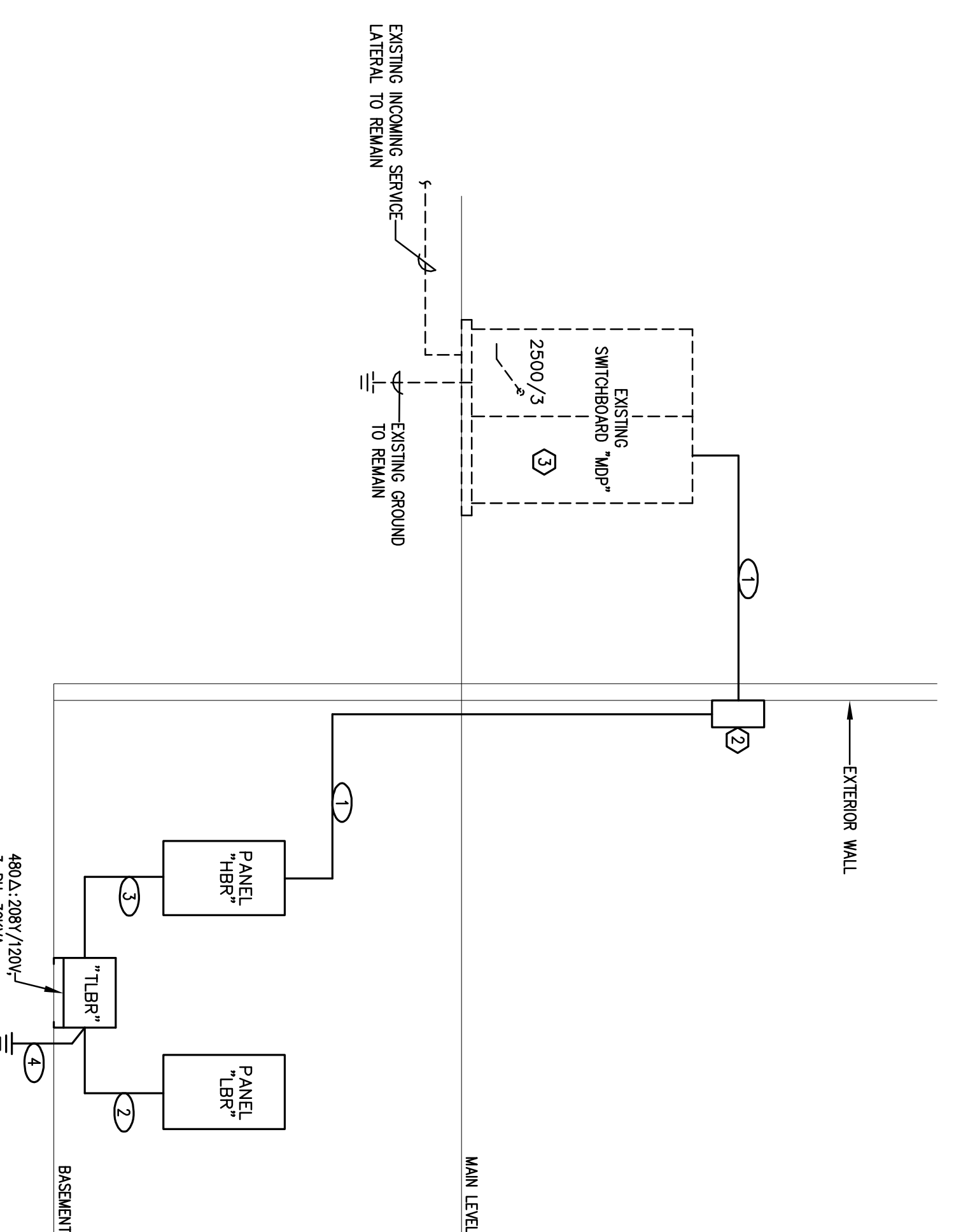
PROJECT: RENOVATIONS AND MODIFICATIONS TO ALPHARETTA ELEMENTARY SCHOOL
 CLIENT: FULTON COUNTY SCHOOLS

SHEET TITLE: ELECTRICAL RISER DIAGRAM AND SCHEDULES
 SHEET NO: SDE2.2
 SHEET 1 OF 1

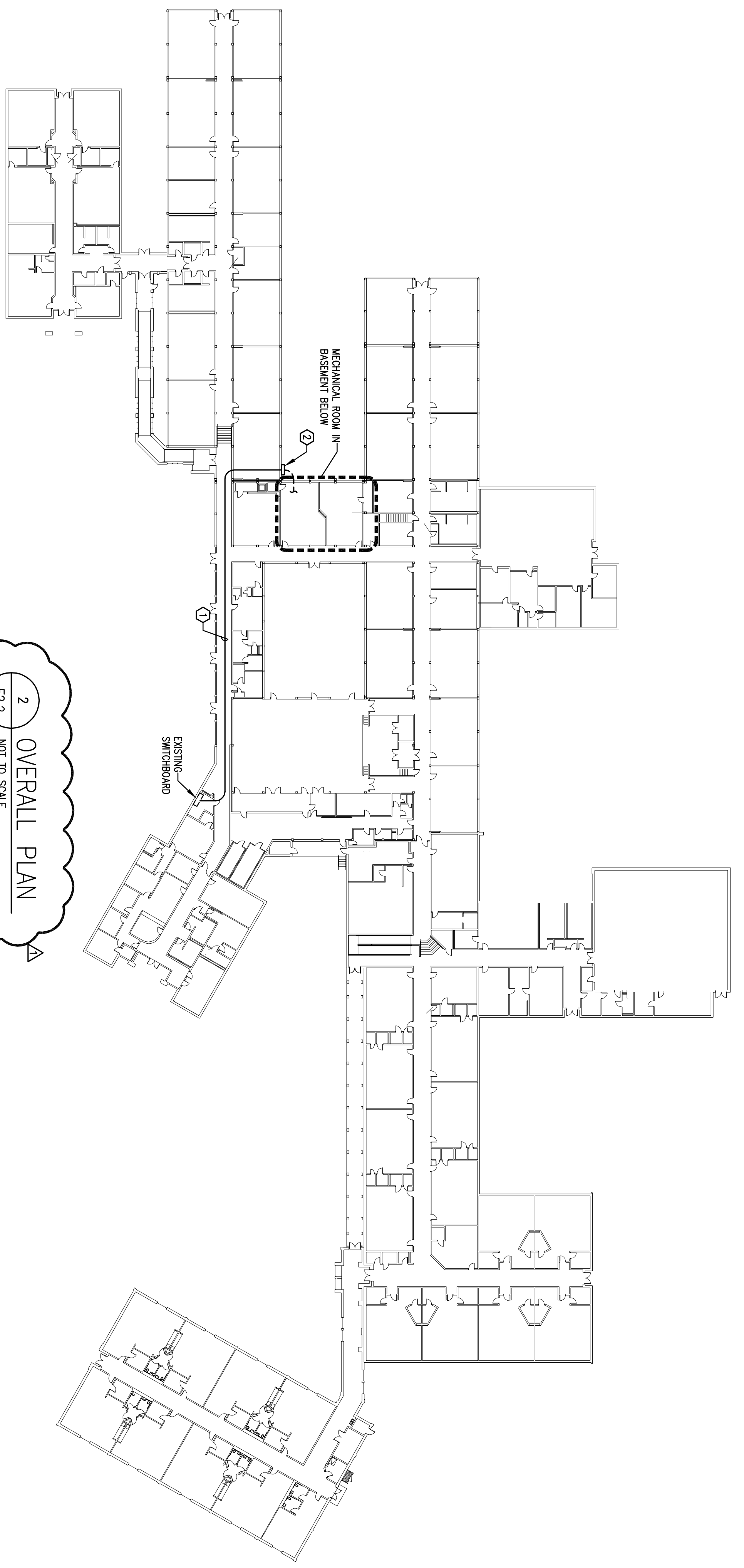
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 PROJECT NUMBER: 2010146
 DATE: 02/15/11
 SCALE: AS NOTED
 DRAWN BY: JPA
 CHECKED BY: JPA

- FEEDER LEGEND:**
- ① 4#1 & 1#6C - 1/2" C
 - ② 4#1 & 1#6C - 1/2" C
 - ③ 3#1 & 1#6C - 3/4" C
 - ④ 1#6C - 1/2" C

1 ELECTRICAL RISER DIAGRAM
 NOT TO SCALE



2 OVERALL PLAN
 NOT TO SCALE



- REMARKS:**
- ① PROVIDE 100A/2P CIRCUIT BREAKER AND 4-CLASSROOM RECEPTS. VERIFY THE GFCI RATED TO 80% TO RESERVE ADEQUATE CLEARING CONDITIONS AND LENGTH OF FEEDER RUN. INCLUDE ALL CONDITIONS AND FEEDER LENGTH IN BID.
 - ② TURN FEEDER OUT OF BUILDING ABOVE THE CLASSROOM CEILING LINE TO AN 'RTRVTR' KEEP MECHANICAL ROOM IN BASEMENT BELOW. TURN FEEDER DOWN TO BELOW GRADE AND EXTEND TO PANEL 'HBR' IN MECHANICAL ROOM IN BASEMENT BELOW. SEE SHEET SDE2.1.
 - ③ PROVIDE A 100A/2P CIRCUIT BREAKER IN THE AVAILABLE SPACE IN THE SWITCHBOARD AND TERMINATE THE FEEDER FOR PANEL 'HBR'. CIRCUIT BREAKER SHALL BE MANUFACTURED BY THE MANUFACTURER OF THE SWITCHBOARD FOR USE IN THE SWITCHBOARD.

PANEL BOARD - "HBR" NO. OF CKT SPACES: 42				MAIN DEVICE: MLO									
PP VOLT	208V AC RATING	42,000	TYPE	NO. TA	WS	COND	DESCRIPTION	TL LOAD					
NO. PH.	3	CABINET	SURFACE	NO. TA	WS	COND	DESCRIPTION <td>TL LOAD</td>	TL LOAD					
1	208	12	1/2"	CTFAN	M	6000	2	203	12	1/2"	CREHEATER	H	8000
3	---	---	---	---	---	---	---	---	---	---	---	---	---
7	300	12	1/2"	SWAP	M	2000	8	201	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---	---
13	201	---	---	---	---	---	---	---	---	---	---	---	---
15	201	---	---	---	---	---	---	---	---	---	---	---	---
17	201	---	---	---	---	---	---	---	---	---	---	---	---
19	201	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---	---
33	---	---	---	---	---	---	---	---	---	---	---	---	---
35	---	---	---	---	---	---	---	---	---	---	---	---	---
37	---	---	---	---	---	---	---	---	---	---	---	---	---
39	---	---	---	---	---	---	---	---	---	---	---	---	---
41	---	---	---	---	---	---	---	---	---	---	---	---	---
42	---	---	---	---	---	---	---	---	---	---	---	---	---
OTHER PANELS:				DRYRISK:									
RECEPT	6.4	0	0	VOLTAGE	480	0	0	0					
HEAT	1.25	0	0	SPRINK	6.2	0	0	0					
COOL	1	0	0	NO. ZONES	0	0	0	0					
MOTOR	1	1500	0	DRYRISK	1	1500	0	0					
OTHER	1	1500	0	CONNECTION	1	1500	0	0					
SPARE	1	1500	0	AVR	2540	0	0	0					
NOTES:				AVR									

PANEL BOARD - "HBR" NO. OF CKT SPACES: 42				MAIN DEVICE: MCB									
PP VOLT	208V AC RATING	42,000	TYPE	NO. TA	WS	COND	DESCRIPTION	TL LOAD					
NO. PH.	3	CABINET	SURFACE	NO. TA	WS	COND	DESCRIPTION <td>TL LOAD</td>	TL LOAD					
1	208	12	1/2"	BOILER	0	2000	2	202	12	1/2"	BOILER	0	2000
3	---	---	---	---	---	---	---	---	---	---	---	---	---
5	201	12	1/2"	BOILER	M	1500	6	201	12	1/2"	BOILER	0	800
7	201	12	1/2"	BOILER	M	800	6	201	---	---	---	---	---
9	201	12	1/2"	WTR HEAT	O	800	10	201	---	---	---	---	---
11	201	12	1/2"	WTR HEAT	O	800	12	201	---	---	---	---	---
13	201	---	---	---	---	---	---	---	---	---	---	---	---
15	201	---	---	---	---	---	---	---	---	---	---	---	---
17	201	---	---	---	---	---	---	---	---	---	---	---	---
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RECEPT	6.4	0	0	VOLTAGE	480	0	0	0					
HEAT	1.25	0	0	SPRINK	6.2	0	0	0					
COOL	1	0	0	NO. ZONES	0	0	0	0					
MOTOR	1	1500	0	DRYRISK	1	1500	0	0					
OTHER	1	1500	0	CONNECTION	1	1500	0	0					
SPARE	1	1500	0	AVR	2540	0	0	0					
NOTES:				AVR									