

SAD # 46 Design Development Meeting Notes

An **Electrical & Technology Systems Committee** Meeting was held on July 12th, 2007.

Attending:

Rick Bilodeau Jr.	Facilitator- School Board, Mid Maine Communication,
David Fournier	SAD 46 Tech
Pete Mealey	Citizen
Mike McCormick	Citizen
Julie Richards	MS Principal
Kevin Jordan	Superintendent

Larry Bartlett	Bartlett Design, Bath
Joe Hemes	SBA

Not present: Terry Staples, Gary Crane, Rory Sanders, Kristin Briggs, Leah Tondreau
Gary Smith, Dave Gudroe, Steven Crane, Art Roy, Deborah Fournier

1. **Agenda** was distributed with meeting notes from 6/21/07 & approved.
 - a. Interactive white boards costs were \$7-8,000 for a classroom set-up.
2. **Site Lighting Design**
 - a. 3 site light poles in parking area were taken out as requested by Site Committee. The design is still safe with a similar amount of light.
3. **Integrated Digital Technology System** (see Cisco handout)
 - a. A digital system was approved for the project (vs. a hybrid analog/digital system)
 - b. SAD 46 is already digital now with an older Centrex system, which will need to be updated.
 - c. This system will facilitate integration and control of telephone, data, e-mail, intercom & , security systems.
 - d. Battery back-up is required for phone use during power failures.
 - e. 3 or 4 manufacturers for competitive bid- Owner's to advise if they have favorites.
4. **Plan review of proposed data locations**
 - a. 11" x 17" Handouts & full size drawings for 1st & 2nd floors were provided (as well as e-mailed 2 days ago) showing outlets/data TV, projector locations, clocks/speakers, exit signs.
 - b. Owner's to review and comment on layouts for every room in next 2 weeks for DD approval.
 - c. Coax & TV outlets to be installed.
 - d. Hand-out for typical classroom provided.
 - e. Proposing projectors on whiteboards in lieu of TV's, as recommended by Dave Fournier. Low projector outlets for any type of connection to projector (see handout)
 - f. Wireless connection in each classroom (all locations will not be used)
 - g. Clock speaker locations need to be reviewed.
 - h. Laptop charge location needs to be reviewed, with Owner's movable equipment.

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- i. Standard for the quantity & location of digital drops needs to be established. The more drops the more expense, but now is the time to install the drops , not after building is complete.
- j. Intercom will be through the digital system.
- k. Larry/SBA to provide a Reference for a recent school with this system.

5. Security Overview

- a. Security cameras should be fewer high quality cameras.
- b. Motion sensors located in corridors and important rooms.
- c. Layout & catalog information to be provided

6. Building door access/security

- a. Managed lockdown is mandated for entrance doors.
- b. Restrict access from all outside doors options: cards, keypads, fobs.
- c. Keyfobs (Seacoast) are currently used in District and work very well.
- d. Determine most important entrance doors, minor doors egress only doors that can no entry.
- e. Main entrance will have inner vestibule doors locked at a certain time in the morning. Visitors will have to check in thru vestibule window to office to be buzzed in closest door to office.
- f. Larry will develop a control diagram for electrically controlled doors.

7. Lighting-

- a. PUC's energy efficient schools program has been upgraded and is more difficult to obtain.
- b. Goal is .8 watts /sf which is less than the 1.2 watts/sf code. This will provide electrical energy savings for the life of the building.
- c. The quality of the lighting is very important to classroom uses.
- d. Classroom light recommended is a pendant hung direct/indirect light with T-8 bulbs and will be on electronic dimming ballasts in conjunction with lighting controls. See handout.
- e. Gym light recommended is a suspended 2' x 4' with 6, T-5 bulbs, to provide instant on /off and switching to provide several levels of light. See handout.
- f. Corridor's are important spaces for school activities and the lights need to provide enough light for a variety of uses and safety. They also need to be very energy efficient. See handout
- g. Three drawings showing 1st floor lighting layout were left for owner review.

Next meeting: 5 PM review of plans

6 PM Elec/Data meeting on July 19th, 2007