



## READING PUBLIC SCHOOLS

Administration Offices

Harry K. Harutunian, Ph.D.  
Superintendent

82 Oakland Road  
Post Office Box 180  
Reading, Massachusetts 01867

Dennis A. Richards  
Associate Superintendent

Tel. 781-944-5800 • Fax 781-942-9149

TO: Reading School Committee  
FROM: Dr. Harry K. Harutunian  
DATE: August 27, 1998  
TOPIC: Network Installations

Please find attached a memorandum from John Marion, Director of Technology, giving me an update on the status of the local area networks being installed at Joshua Eaton, Birch Meadow and Reading High School. We are very excited that early in the fall all three schools will have local area networks up and working giving our teachers and students Internet access throughout the buildings.

If you have any questions, please contact me.

# **Memorandum**

# **Director of Technology**

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To: Dr. Harry Harutunian  
From: John Marion  
Re: Network Installation Progress  
Date: August 27, 1998

Per your request this is a status report of the progress to date of the network installation.

The completion of technology installation can be best described as a three phase process. The first phase is the hard wiring of the building that brings technology access to each classroom and office. The second phase is the installation of a file/proxy server necessary to channel/filter information going to each end user. The last phase is to configure each PC with a network card, memory, and network/internet software. Each school in this process is in a different phase.

The Eaton School is near completion. The wiring is completed throughout the building. The computer lab will have a hub and wiring to each workstation completed by the end of next week. All testing of the connections is successfully completed. The file server is installed and is currently being configured. All the PC's have memory upgrades and network software installed. The installation will be completed by August 28.

The Birch Meadow School wiring phase is nearly completed. Connections are currently being tested. A file server will be installed and each PC will have a memory upgrade completed and configured by September 4.

The Reading Memorial High School is currently being wired. The anticipated completion date of wiring is October 9. The servers and configuration work will be installed during this timeframe. Memory upgrade and network/internet software are currently under review and will be functional by the wiring completion date.

Overall there is great progress being made toward completion of this massive technology project. I will submit additional reports to you as progress is made and completed projects are realized.

# Schools review contractor bids for Internet wiring of buildings

BY NADINE WANDZILAK  
ADVOCATE CORRESPONDENT

Imagine third graders in Reading classrooms working together on a weather project. They communicate between classrooms, schools and beyond town boundaries, maybe even internationally, via the Internet.

All seven of Reading public schools will be wired in local area network by 2001 in a system that ultimately will connect them and seven town buildings: the library, Town Hall, senior center, police and fire stations and Department of Public Works.

Perhaps beginning this month, the Birch Meadow, Joshua Eaton, Killam and Reading Memorial High schools will each be wired for individual computer networks that will carry voice, data and video. That work should be completed by fall, said School Superintendent Harry Harutunian.

Killam now has a small network and Internet access through MediaOne; Coolidge Middle School has a modified network; and Parker Middle School has had a building-wide network and high speed Internet access since the building was renovated in 1996, Harutunian said. Network wiring will be part of renovations at Barrows and Killam, he said.

Why wire school rooms, then link schools together? One reason, Harutunian said, is the information available at students' fingertips. With several keystrokes, Harutunian brought up the Web pages of the Library of Congress, then randomly-selected the pages of schools in Appleton, Colorado and Japan.

A second reason is continuity between schools and between home and school. Based on a school department survey, 90 per-

cent of students at Reading High have access to a computer at home. The schools want to mirror what students have at home and use computers as teaching tools, Harutunian said.

As a teaching tool, Harutunian said students receive "immediate gratification" from the computer and image projector in each class-

***'My responsibility is that children get the opportunity and exposure to be competitive in school and in the work force.'***

DR. HARRY HARUTUNIAN  
SCHOOL SUPERINTENDENT

room. Suppose a student had a writing assignment, Harutunian proposed. Instead of having the work photocopied, put on a transparency and edited, a student could bring in a disk with his essay on it. Or, once the school has Internet access, use e-mail.

From the classroom computer, the story appears on a large screen visible to the whole class. Using a laser pointer, the teacher makes editing suggestions, and the class joins in the discussion. Before the period is over, Harutunian concludes, the student has a corrected document in hand.

A third reason, he said, is the economy that comes from sharing resources.

"My responsibility is that children get the opportunity and exposure to be competitive in school and in the work force," Harutunian said.

Last year, Town Meeting appropriated \$500,000 technology upgrades and expansion in an effort to equalize the technology among town schools, Harutunian said.

The school department received two bids last month on the network wiring to be done in the Birch Meadow, Eaton, Killam and Reading Memorial High Schools. The school department is reviewing the bids, Harutunian said. He avoided releasing the names of the bidders and the bids until a contract is signed, which could happen within the next week to 10 days.

The school department also received a \$120,000 state technology grant for network hardware and wiring. The grant will be used, Harutunian said, for wiring either at Killam or, if needed, for the remaining network projects.

Yet another factor in the wiring equation is MediaOne, which provides high-speed Internet access. Since January, 1998, MediaOne has provided free Internet access to the schools, one year after making it available to residences, Harutunian said.

Once the entire network is installed, Harutunian said the Internet will become a vital communication tool between schools, students and parents.



might go to a local Club Stable (above) lands today.

— Ed Palmer

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## Letter to the Editor

Dear Editor,

The Reading School District is pleased to announce that their five-year technology plan has been approved by the Commonwealth of Massachusetts. What this means for Reading is that we are now eligible to apply for technology money at the rate of \$30 per student. That amounts to more than \$120,000 for the district. The state has required school districts to use this money to provide the wiring infrastructure to network the district's seven schools. Here in Reading, this means that along with capital improvement funds, a local area network (providing the wiring that links computers within a building) can be installed in each of the schools and we can move toward implementation of a wide area network (providing the wiring that links computers from building to building) to connect school buildings together.

In designing the technology plan, the state provided stringent guidelines for each school district to follow. The purpose of this was to standardize district plans providing continuity and ease in reading the plans. The technology plan consists of six major areas.

First, each district provided a community and demographic overview. This included information about community involvement in the schools, as well as the district's vision and mission statements relative to technology.

A complete assessment was done of the current technology in the district. Inventories were provided from each school, and the equipment was rated according to its usefulness and age. Each staff member in the district received a four page questionnaire assessing their knowledge of technology and its use in the classroom. Students in grades six through 12 received a two page questionnaire also assessing their knowledge of technology. These questionnaires are currently being used to determine staff development and training needs throughout the district.

Some of the statistics that were made apparent in the surveys were:

- 90 percent of the Reading students in grades six through 12 have access to computers at home.

- almost 50 percent of Reading students use their home computers more than three hours per week.

- students felt most comfortable using technology in the areas of drawing, painting, graphic design, educational games and simulations, word processing, desktop publishing, accessing CD-ROMs, and using electronic encyclopedias.

Section three deals with curriculum. Not only is it vital that students have access to technology in order to prepare them for their world, but it is imperative that the technology be used to meet curricular needs and goals. This section outlines how

the use of technology in the Reading schools will meet the initiatives set forth in the Massachusetts Education Reform.

In designing the technology for the Reading schools, the plan looks at software needs and priorities for three areas: curriculum and instruction, administration and management, as well as communications and information access. The technology design also articulates the hardware needs and network designs for each school in the district, outlining wiring standards and implementation issues. Section five also looks at district needs surrounding technology. This involves budgetary and staffing needs as well as staff development plans. This section develops an action plan for the implementation of technology.

The last section of the technology plan outlines the means in which the district will monitor, evaluate, and revise the plan.

Developing this comprehensive plan comprised months of work and input from people throughout the district and community. If you have any questions concerning the Reading School District Technology Plan, please contact Cindy Conti, Director of Technology at 944-5800. Community input is always welcome and I would be glad to discuss any technical and educational implications of the plan. The Reading School District is moving forward in its technology implementation plan with the development of a district-wide

technology committee. If you are interested in participating on this committee, please submit a letter of intent and a

Dear Editor:

Saturday afternoon August 2 when we first smelled the smoke and saw the ash falling we knew that fire was very near. Fed by tinder dry woods and pushed by high winds the fire approached rapidly from the west.

Very quickly Reading firefighters arrived on the scene (along with companies from North Reading, Middleton, Wilmington, Lynnfield, Stoneham and Wakefield). The area from route 93 to County Road where the fire was difficult to reach. Many feet of hose was run out and the firefighters had to push through brush and trees.

Anxious residents were given reports of the status of the fire quickly and calmly.

Thanks to the prompt and persistent action of the firefighters, the fire was contained and those of us who live near the scene realized how fortunate we are and extend our thanks to all the professionals who saved us from that blaze.

Sincerely,

Edward and Mary Fuller  
4 County Rd.

Anthony and Loretta Marino  
70 West St.

**SUPERB PAINTING**  
EXTERIOR SPECIALISTS

resume to Cindy Conti, Director of Technology at the District Administrative Offices located at 82 Oakland Road, Reading.

To the Editor:

I was relieved to see the constructive tone of the school committee's hearing on the district's math curriculum. It was encouraging to get a balanced picture of the decision to adopt the Chicago Math program. I agree with those committee members who thanked parents for coming forward to express their concerns. The scrutiny resulting from this discussion will only

Vicky Schubert  
Birch Meadow Parent

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Fall 1997-1998

★ See attached list of Technology Team

### Form 1.3C: Superintendent's Verification of Broad-based Technology Team Membership

I verify that the following individuals representing district staff, school parents, and community stakeholders have been active participants in the technology planning activities and the resulting district technology plan.

  
 Superintendent's Signature

Reading Public Schools  
 School District

Team Member	Role/Affiliation
James Biller	Research Scientist, Parent
Joe Buckley	Teacher, Grade 4, Killam Elementary
Joe Cain	Technology Specialist, Reading Memorial High School
Linda Carey	Teacher, Grade 4, Killam Elementary
Lawrence Chomsky	Product Developer, Parent
Joan Clifford	Teacher, World Languages, Parker, Coolidge Middle School
Brian Colozzi	Engineer, Parent
Jy Conti	Director of Technology, Reading Public Schools
Marcia Grant	Computer Specialist, Parker Middle School
Mary Hichborn	Library/Media Specialist, Coolidge Middle School
Elaine Hondorf	Library/Media Specialist, Killam Elementary
James Keigley	FinCom Committee Member
Joan Morse	Library/Media Specialist, Reading Memorial High School
Charles Papandreou	Principal, Barrows Elementary School
Laura Peterson	Computer Specialist, Coolidge Middle School
Dennis Richards	Associate Superintendent
Chuck Wayne	Parent, High Tech Mgr.
Roy Welsch	Prof. Statistics & Mgmt. Science, Parent
Nancy Ziemiak	Systems Training Mgr., Parent

Jan. 23, 1998

OFFICE OF THE SUPERINTENDENT  
READING PUBLIC SCHOOLS  
82 OAKLAND ROAD  
READING, MASSACHUSETTS 01867

COMMUNICATION WIRING

AT

READING MEMORIAL HIGH SCHOOL  
BIRCH MEADOW ELEMENTARY SCHOOL  
JOSHUA EATON ELEMENTARY SCHOOL  
J.W. KILLAM ELEMENTARY SCHOOL

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SPECIFICATIONS, COMMUNICATION CABLING

ALTERNATES

QUOTATION FORMS

NOTE:											
- hub numbers are partial; RFP will need to list additional hubs as appropriate											
- closet locations are also partial											
<b>"A" BUILDING</b>											
ROOM #	FUNCTION	DATA	VOICE	VIDEO	OPTIONAL VIDEO	How many 24 port HUBS?	COMMENTS	NEAREST CLOSET			
A-101	classroom	4	1	1							
A-102	classroom	4	1	1							
A-103	classroom	4	1	1							
A-104	classroom	4	1	1							
	custodial										
A-105	classroom	4	1	1				corner closet			
A-106	classroom	4	1	1							
A-107	classroom	4	1	1							
A-108	Computer Lab	24	4	1							
A-109	School to Work	24	1	1			Computer Apps Lab potential lab (4-1-1 is OK)				
A-110	Dept Office	4	1	1							
A-111	Girls lockers	4	1	1	OPT						
A-112a	classroom (old HE)	4	1	1	OPT						
A-112b	classroom (old HE)	4	1	1							
A-113	classroom	4	1	1							
A-114	Publications Lab	24	4	1							
A-115	Graphics	4	1	1			Pub Computer Lab - MACs				
A-116	classroom	4	1	1							
A-117	Student Lounge	4	1	1							
A-118	Vernal Pool Room	4	1	1							
A-119	classroom	4	1	1							
A-120	Tech Computer Lab	24	4	1							
A-121	classroom	4	1	1			CAD Computer Lab				
A-122	classroom	4	1	1							
A-123	Graphics Lab	24	4	1							
A-124	Wood Shop	4	1	1							
A-125	Maintenance Dept	4	4	1			STAFFED OFFICE				

Tomulish HLL (as of 12/23/02) proposed Opt. 3

ROOM #	FUNCTION	DATA	VOICE	VIDEO	OPTIONAL VIDEO	24 port HUBS?	COMMENTS	NEAREST CLOSET
A-201	Staff Center	4	1	1				
A-202	Soc Dept Office	4	1	1				
A-203	AP Office	8	3	1	OPT		STAFFED OFFICE	
A-204	classroom	4	1	1				
A-205	School Store	4	1	1				
A-206	Band Room	4	1	1			with Aud stage	
AUD	Aud Stage	4	1	1				
A-207	Cafeteria Office	4	2	1	OPT			
	classroom	4	1	1				
	custodial							Corner closet
A-208	PPS	16	8	1		1	STAFFED OFFICE	
A-209	classroom	4	1	1				
A-210	classroom	4	1	1				
A-211								
A-212								
A-213	Cain's Office	4	1	1			STAFFED OFFICE	
A-214/216	classroom	4	1	1				
A-215	Principal	2	1	1	OPT		STAFFED OFFICE	
A-217	Main Office	8	4	1	OPT		STAFFED OFFICE	
A-218	Guidance Suite	24	8	1		1	STAFFED OFFICE	
A-219	NW411 Server	2	1	1			NETWORK ROOM	POSSIBLE MAIN CLOSET
A-220	classroom	4	1	1				
A-221	School to Work	2	1	1	OPT		leased office	
A-222	classroom	4	1	1				
A-223	AD Office	4	1	1	OPT		STAFFED OFFICE	
A-224	AD Office	4	1	1	OPT		STAFFED OFFICE	
A-225	OLD GYM	4	1	1				
A-226	Custodian Office	2	1	1	OPT		HVAC controls	
A-227	Chinese Cultural	2	1	1	OPT			
A-301	classroom	4	1	1				
A-302	classroom	4	1	1				
A-303	classroom	4	1	1				
A-304	For Lang Office	4	1	1				

Demolish ALL! (as of 12/23/02)



ROOM #	FUNCTION	DATA	VOICE	VIDEO	OPTIONAL VIDEO	24 port HUBS?	COMMENTS	NEAREST CLOSET
A-305	classroom	4	1	1				
A-307	classroom	4	1	1				
A-308	Stairwell room	0	0	0				
A-309	Computer Lab	24	4	1		1	Eng/FL Computer Lab	
	bookroom							
A-306	AUD BALCONY	4	1	1				Corner closet
A-310	classroom	4	1	1	OPT		all optional	
A-311	classroom	4	1	1				
A-312	classroom	4	1	1				
A-313	classroom	4	1	1				
A-314	Eng Dept Office	4	1	1				
A-315	classroom	4	1	1				
A-316	Word Proc Lab	48	4	1		2	Word Proc Computer Lab	has bookroom
A-317	classroom	4	1	1				
A-318	classroom	4	1	1				
A-319	classroom	4	1	1				has bookroom
A-320	classroom	4	1	1				
A-321	classroom	4	1	1				
A-322	classroom	4	1	1				
A-323	classroom	4	1	1				
A-324	classroom	4	1	1				
A-325	METCO Office	2	1	1			use adjoining wall	
A-327	METCO Office	0	0	0				

demolish ALL

Note: Labs r. be demolished as of 12/23/92

ROOM #	FUNCTION	DATA	VOICE	VIDEO	OPTIONAL VIDEO	24 port HUBS?	COMMENTS	NEAREST CLOSET
<b>"B" BUILDING</b>								
B-101	Cable TV Office	4	1	1				
B-102	Lecture Hall	4	1	1				
B-103	REAP	4	1	1				
B-104	REAP	4	1	1				
B-201	Media Center							
	Office	4	1	1	OPT		MEDIA CENTER see description	across the hall
	Workroom	4	1	1	OPT			
	Computer Lab	24	4	1		1		
	Main Floor	24	1	1		1		possible
B-202	Conference Room	4	1	1			wire for 24 potential	
B-203	AP Office	6	3	1	OPT		STAFFED OFFICE	
B-301	Conf Room	4	1	1			run extra wire to	
B-302	Conf Room	4	1	1			upstairs Media Center	
B-303	custodial closet unused	4	1	1				closet at top of stairs
B-304	Proj Achieve	4	1	1			for future potential	
B-305	Proj Achieve	4	1	1			labs in 2nd floor Media Center	

To be saved

for saved as of 12/23/02

ROOM #	FUNCTION	DATA	VOICE	VIDEO	OPTIONAL VIDEO	24 port HUBS?	COMMENTS	NEAREST CLOSET
<b>"C" BUILDING</b>								
C-101	RISE	4	1	1			Preschool Program	
C-102	RISE	4	1	1			Preschool Program	
C-103	RISE	4	1	1			Preschool Program	
C-104	RISE	4	1	1			Preschool Program	
C-105	classroom	4	1	1				
C-106	Chem supply room	0	0	0				possible closet
C-107	classroom	4	1	1				
C-108	classroom	4	1	1				
C-109	classroom	4	1	1				
C-110	supply room	0	0	0				possible closet
C-111	classroom	4	1	1				
C-112	classroom	4	1	1				
C-113	classroom	4	1	1				
C-114	classroom	4	1	1				
C-115	classroom	4	1	1				
C-201	MATH OFFICE	4	1	1				
C-202	classroom	4	1	1				
C-203	classroom	4	1	1				
C-204	Computer Lab	24	4	1		1	Math Computer Lab	possible closet
C-205	classroom	4	1	1				
C-206	supply room	0	0	0				possible closet
C-207	classroom	4	1	1				
C-208	SEEM	4	1	1				
C-209	Sci Dept Office	4	1	1				
C-210	supply room	0	0	0			was science lab	
C-211	classroom	4	1	1				possible closet
C-212	classroom	4	1	1				
C-213	classroom	4	1	1				
C-214	classroom	4	1	1				
C-215	classroom	4	1	1				
C-216	LC Office	4	1	1				
C-217	LC classroom	4	1	1				
C-218	LC classroom	4	1	1				

To be saved (gutter) Apr. 3 12/23/02

ROOM #	FUNCTION	DATA	VOICE	VIDEO	OPTIONAL VIDEO	24 port HUBS?	COMMENTS	NEAREST CLOSET
C-219	LC classroom	4	1	1				
C-301	classroom	4	1	1				
C-302	classroom	4	1	1				
C-303	classroom	4	1	1				
C-304	classroom	4	1	1				
C-305	classroom	4	1	1				
C-306	supply room	0	0	0				possible closet
C-307	classroom	4	1	1				
C-308	VIVARIUM	4	1	1				
C-309	classroom	4	1	1				
C-310	supply room	0	0	0				possible closet
C-311	classroom	4	1	1				
<b>FIELD HOUSE</b>								
	Boys lockers	4	1	1	OPT			
	Girls Lockers	4	1	1	OPT			
					OPTIONAL			
		DATA	VOICE	VIDEO	OPTIONAL VIDEO	HUBS?		
	TOTAL:	782	181	132	17	13		

To be saved  
(omitted) (as of 12/23/02)

ROOM #	FUNCTION	DATA	VOICE	VIDEO	OPTIONAL VIDEO	24 port HUBS?	COMMENTS	NEAREST CLOSET
<b>BASEMENT OF "C" BUILDING</b>								
<b>SUPERINTENDENT'S OFFICES</b>								
	meeting room	2	1	1		1		
	office 1	2	1	1			Supt	
	Supt secretary	2	1	0				
	office 2	2	1	1	OPT		middle office	
	office 3	2	1	1			Assoc Supt	
	workstation 1	2	1	0			Reception desk	
	workstation 2	2	1	0			Maureen	
	workstation 3	2	1	0			Sue	
	workstation 4	2	1	0			Carol	
	Xerox wall	2	1	0			half wall partition	
	rear workroom	2	1	0				
					OPTIONAL VIDEO			
		DATA	VOICE	VIDEO		HUBS?		
	SUPT TOTAL:	22	11	4	1	1		

To be saved  
 (as of 12/23/02)

# Reading Memorial High School

## Room Numbers

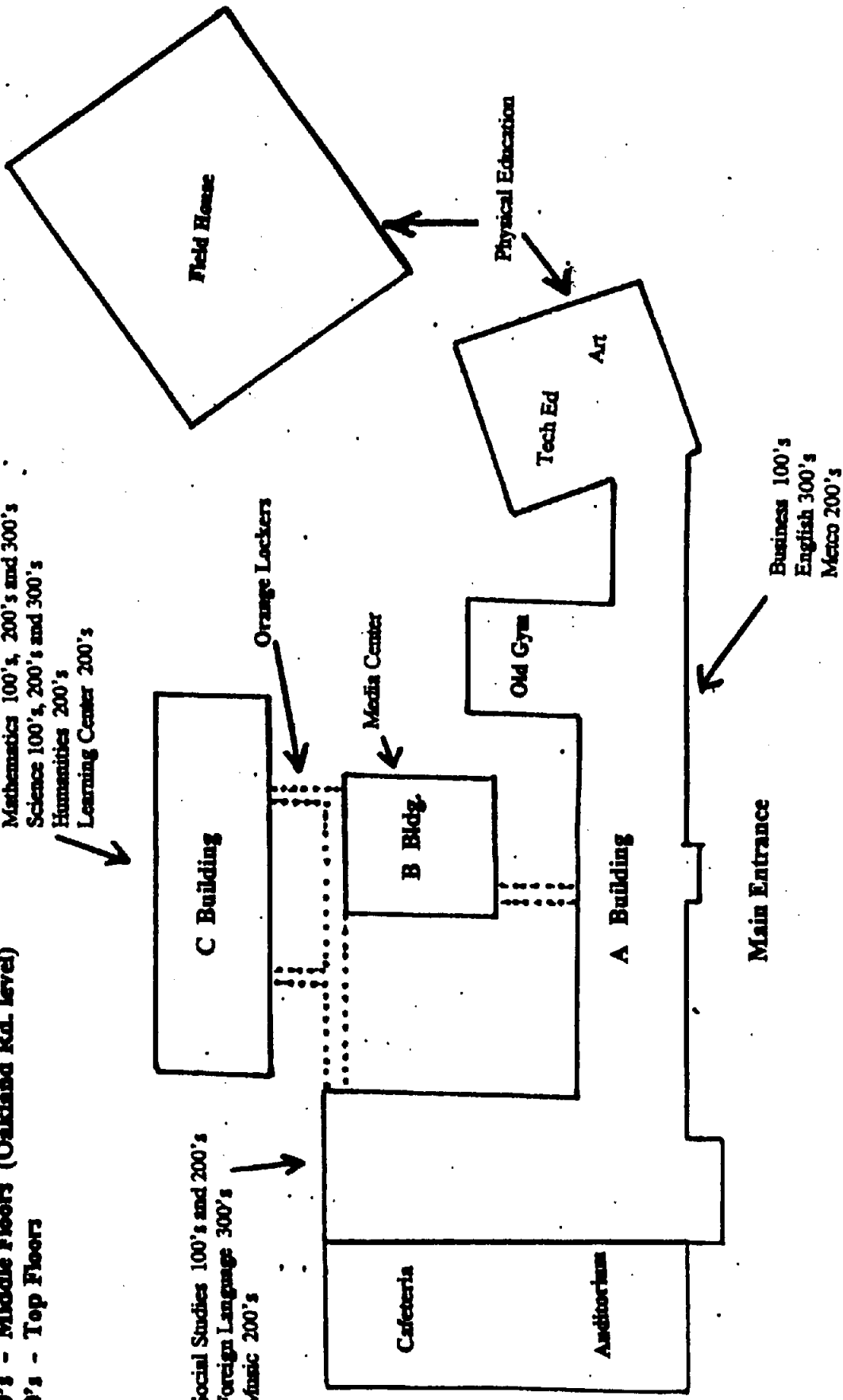
100's - Bottom Floors

200's - Middle Floors (Oakland Rd. Level)

300's - Top Floors

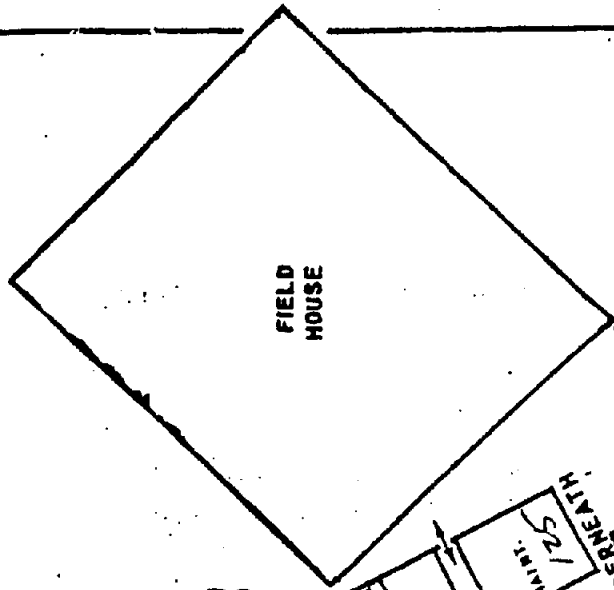
Mathematics 100's, 200's and 300's  
 Science 100's, 200's and 300's  
 Humanities 200's  
 Learning Center 200's

Social Studies 100's and 200's  
 Foreign Language 300's  
 Music 200's

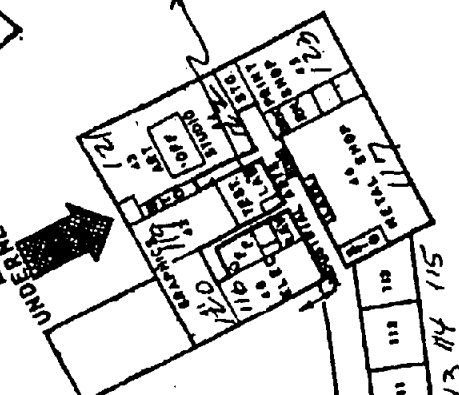
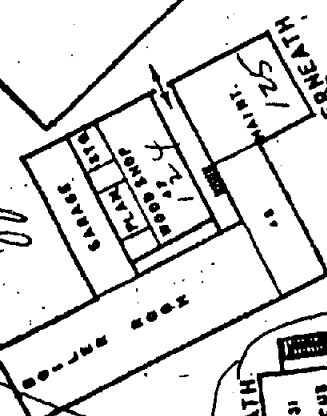


Oakland Road

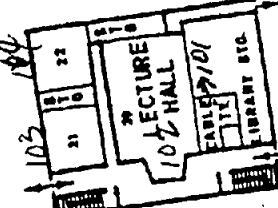
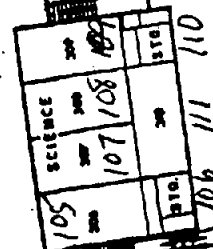
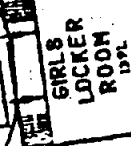
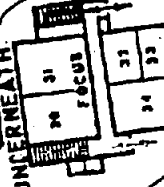
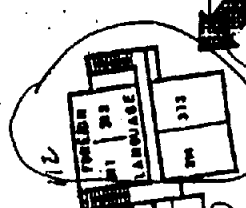
# Ground Floor



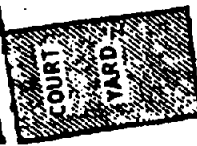
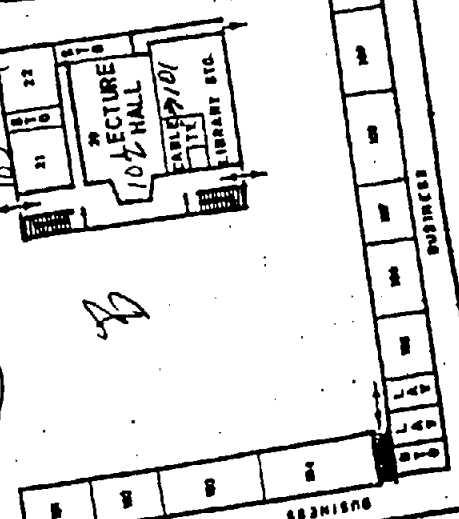
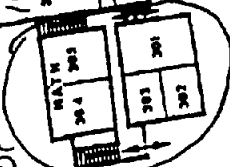
*Suit offered*



*112  
115*

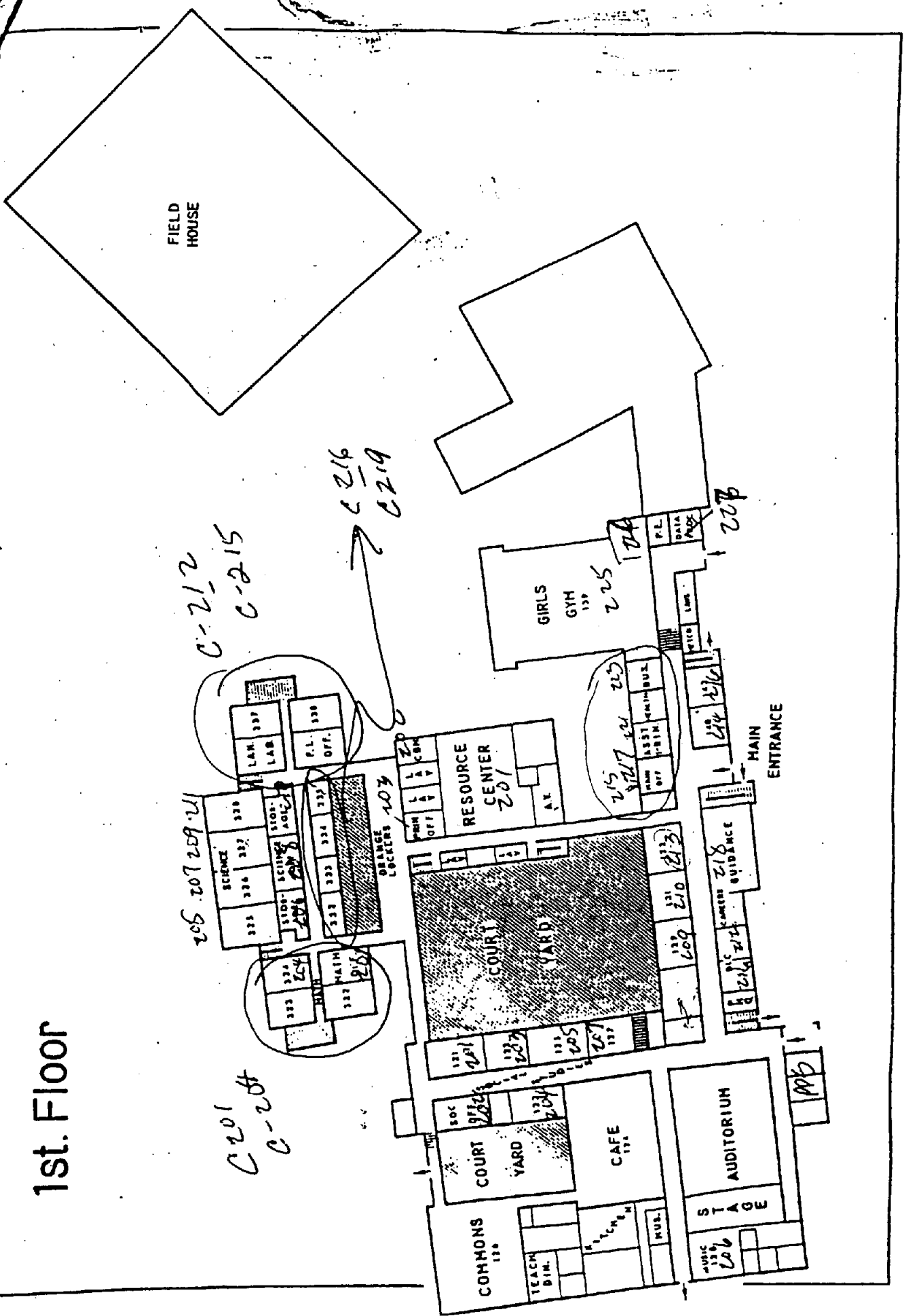


*C101-C-10F*



*A*

# 1st. Floor



C-212  
C-215  
C-216  
C-219

17. 207 209 211  
SCIENCE 326 327 328  
STOD. SCIENCE STOD. 329  
330 331 332 333 334 335  
ORANGE LOCKERS 103

C-201  
C-204

MAIN ENTRANCE

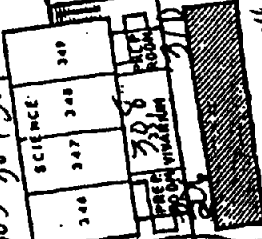
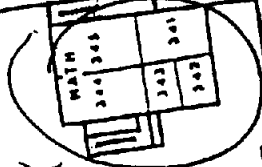


# 2nd. Floor

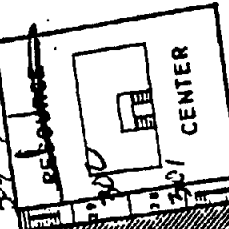
FIELD HOUSE

305 307 309 311

304  
305  
306



304 304 305



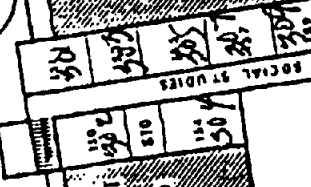
325



320 322 324

ENGLISH  
100 102 OFFICE  
104 106  
108 110 112 114

310 312 314



BALCONY

