auburn community hospital
edward i cass
cripsi wyman
whitaker cochran
gedd
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Abstract

The Auburn Community Hospital facility will serve the northeastern Indiana county of Dekalb. The county is inhabited by approximately 30,000 people with Auburn being the largest single concentration with 8,000 residents.

Auburn is an area of high civic pride and growth with a sound financial background. It has also been referred to as a suburb or "bedroom" community of Fort Wayne. A good portion of the Auburn does in fact commute to Fort Wayne to work daily. The town of Auburn is a very leisurely and peaceful community while also being the county seat for Dekalb county.

Dekalb county is presently being served by the Dekalb Memorial Hospital (87 bed) located just east of Auburn on State Road 8. The facility is presently constructing a new addition to cope with the growing demand of the area. The purposed Auburn Community Hospital will take these already present needs along with future projected demands and incorporate them into a new 96 bed facility on a new site more suitable for the entire county.
building type

Up until the twentieth century the hospital was considered a place where a patient was sent to die. To that time hospitals were a last resort. One's doctor would recommend a hospital if the illness was contagious or terminal. But times have changed and now the hospital is turning to outpatient and diagnostic and treatment areas.

The modern hospital is changing at an unbelievable rate due to medical advancements and the turn towards preventive medicine. In looking at the American hospital the most drastic cause of actual building structure change comes from legislature(FIG.1). The enactment of these pieces of legislature were milestones in hospital design. One of the more important was the Hill-Sutton Act which sets the standards for modern hospitals, allocation of funds, and even if it can be built in that zone. These set of standards along with many others have allowed for a more careful and successful planning of the American hospital.

In the twentieth century planning for function took over as the major design criteria and today's hospital is a very functional machine. One of the the most useful studies done is the Yale hospital function and design index. In using the index one must assume nursing activities to
TWENTIETH CENTURY MILEPOSTS FOR THE U.S. HEALTH CARE SYSTEM

1910 The Flexner Report condemned the general educational system and caused many medical schools to reform.

1912 The American College of Surgeons (ACS) was formed to further a more structured examination of their medical practices by physicians.

1918 ACS initiated the first national hospital standardization program.

1929 The first Blue Cross Plan was established at Baylor University, Dallas. The plan had two basic objectives: (1) to assist the university hospital with problems it had in its accounts receivable and (2) to assist the potential patient by spreading the financial risk for medical services.

1933 The report of the privately financed Committee on the Cost of Medical Care included proposals for prepayment of health care services and called for areawide planning.

1934 The first graduate degree program in hospital administration at the university level began at the University of Chicago.

1935 Health provisions of the Social Security Act included grants-in-aid to states for maternal and child health and welfare services and public health services for the entire community.

1946 Congress, recognizing the problem of shortages in health care services, enacted the Hospital Survey and Construction Act (Hill-Burton Act, P.L. 79-725) to provide money to states for new hospital facilities.

1952 The Joint Commission on Accreditation of Hospitals (JCAH) was established. (It is now sponsored by the American Hospital Association, the American Medical Association, the American College of Physicians, and the American College of Surgeons.)

1954 The Hill-Burton Act was amended to expand the scope of the program to include nursing homes, rehabilitation facilities, chronic disease facilities, and diagnostic or treatment centers.

1964 The Hill-Burton Act was amended to set aside monies for modernization and replacement of facilities.

1965 Medicare and Medicaid were created by passage of P.L. 89-97.

1965 Passage of P.L. 89-239, which amended the Public Health Service Act, grew out of the President’s Commission on Heart Disease, Cancer, and Stroke. The commission recommended the establishment of a nationwide network of regional medical programs (RMPs).

1966 The Comprehensive Health Planning Act, P.L. 89-749, was passed to promote comprehensive planning for health services, manpower, and facilities.

1972 Congress adopted the Professional Standards Review Organization (PSRO, P.L. 92-603) program. The PSRO amendment to the Social Security Act ensures continued public and government focus upon the quality of health care being delivered in the United States.

1973 The Health Maintenance Organization (HMO) Act (P.L. 93-222) authorized $375 million over a five-year period for grants, loans, and loan guarantees for feasibility studies, development studies, and initial operations for new or existing HMOs.

1975 Passage of the National Health Planning and Resources...
be similar in all the types studied.

Comparisons of the different types of architectural configurations are usually a function of circulation, corridor length and arrangement. Plans which are in the shape of straight lines, V, T, and U are usually simple circulation schemes, whereas double corridor plans, circular plans, and square plans are usually redundant circulation schemes. In viewing the types (FIG.2,3) and the test results (FIG.4) one can fairly well see that the redundant circulation schemes are more efficient than the simple designs especially when more than 30 beds are involved. Table 13 (FIG.5) helps relate the unit size to their efficiency and one can see that efficiency is not directly related to unit size (e.g., compare Q, 26 beds, to C, 42 beds). The larger the unit is by far more efficient in this particular case.

In the use of the tables one must also consider the construction technology which is based on the rectangle. Circular plans are more costly to build plus they can only be altered by vertical addition. One must also look at the need of flexibility in the structure. In an overview of the architectural types one must consider that design dictates efficiency and not the size of the unit or the degree of privacy offered. Selection of circulation patterns will be one of the most important decisions to be made.

auburn community hospital

building type
KEY:

N - Nurses' Station
U - Utility Room(s)
M - Medication Storage
K - Kitchen or Pantry
E - Entrance or Elev. Lobby
J - Janitor's Closet
IP, 2P, 4P - Patient Rms. by No. Beds

FIG. 3

auburn community hospital
building type
<table>
<thead>
<tr>
<th>HOSPITAL</th>
<th>CIRCULATION SIMPLE COMP.</th>
<th>RANK</th>
<th>YALE INDEX</th>
<th>RANK</th>
<th>N. STA. TO PATIENT ROOM</th>
<th>NO. BEDS 10 RUNNING FEET COR.</th>
<th>RANK</th>
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**FIG. 4**

**auburn community hospital**

**building type**
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<th>Architectural Type</th>
<th>Circulation</th>
<th>YTI Rank</th>
<th>Privacy Index Rank</th>
<th>Size Rank</th>
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<td>9.0</td>
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<td>Compound</td>
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<td>9.0</td>
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<td>29.5</td>
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<td>30.0</td>
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</table>

**FIG. 5**

**auburn community hospital**

**building type**
The Auburn Community Hospital will be programmed on
1980 projected contact rates and will consider the growth
potential of the structure. The facility will have a
ninty-six (96) bed Nursing Division;
A.) one forty bed Medical Unit 40
B.) one forty bed Surgical Unit 40
C.) one ten bed Obstetrics Unit 10
D.) One six bed Intensive/Coronary Unit 6

Future expansion of the facility will occur with the add-
ition of beds to the individual units as the demands dictate.
Some flexiblity is possible on the floor itself with the
design of the waiting and lounge areas to become patient
rooms if the need arose. The Diagnostic and treatment div-
isison will have to room to expand horizontally with the lab
and radiology being the biggest concern. The nursing units
will expand vertically with the simple addition of an upper
level if growth exceeds the present trend. (FIG.I,II)

The Obstetrics Unit appears to be adaquate with DeKalb
having an annual birth rate of 18.2 per 1000 residents and
considering the national trend towards zero population growth.
The obstetric patient spends around four days in the hospital
### Patient Visits per Year
- **Patient Use Rates**
- **Service Population in 1000's**

<table>
<thead>
<tr>
<th>Year</th>
<th>Type</th>
<th>Rate</th>
<th>Service Population (1000's)</th>
<th>Patient Visits per Year (Week)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1975</td>
<td>Inpatient OB</td>
<td>18</td>
<td>27.317-28.804</td>
<td>492-518 (9-10)</td>
</tr>
<tr>
<td></td>
<td>Inpatient H/S</td>
<td>102</td>
<td></td>
<td>2,786-2,938 (54-57)</td>
</tr>
<tr>
<td></td>
<td>Outpatient</td>
<td>640</td>
<td></td>
<td>17,843-18,435 (336-355)</td>
</tr>
<tr>
<td></td>
<td>Inpatient H/S</td>
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<td></td>
<td>2,945-3,124 (57-60)</td>
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<tr>
<td></td>
<td>Outpatient</td>
<td>768</td>
<td></td>
<td>22,176-23,520 (426-452)</td>
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<td>1985</td>
<td>Inpatient OB</td>
<td>18</td>
<td>29.969-34.447</td>
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<td>Outpatient</td>
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<td>25,334-29,108 (487-560)</td>
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**Table: Projection of Patient Contacts in Average Week and in Average 3-Hour Period**

This table is based on the preceding Projection of Dekalb Memorial Hospital's Patient Visits per Year and on Contact Rates established in the historical utilization data (5.2). From observation of utilization patterns in similar facilities, an average 3-hour period can be taken as 5.4% of an average week. The rates are established for a 1980 average base. The figure for the average 3-hour figure will be placed in parentheses.

<table>
<thead>
<tr>
<th>Contacts</th>
<th>Rate</th>
<th>1975</th>
<th>1980</th>
<th>1985</th>
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<tbody>
<tr>
<td>Total Patients</td>
<td>1.000</td>
<td>399-422(22-23)</td>
<td>493-523(27-28)</td>
<td>556-640(30-35)</td>
</tr>
<tr>
<td>Admission/Registration</td>
<td>1.000</td>
<td>399-422(22-23)</td>
<td>493-523(27-28)</td>
<td>556-640(30-35)</td>
</tr>
<tr>
<td>Inpatient</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medical/Surgical Bed</td>
<td>.110</td>
<td>48.4-46.6 (24.2-25.5)</td>
<td>56.2-57.5 (30.3-31.1)</td>
<td>61.2-70.4 (43.3-43.9)</td>
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<tr>
<td>Obstetrical Bed</td>
<td>.250</td>
<td>99.8-103.5 (5.5-5.6)</td>
<td>152.3-133.0 (6.8-7.0)</td>
<td>139.0-160.0 (7.5-8.8)</td>
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<td>Surgery</td>
<td>.14</td>
<td>37.9-43.4 (13.0-14.1)</td>
<td>25.7-23.0 (1.2-1.3)</td>
<td>26.5-29.2 (1.3-1.5)</td>
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<td>Radiology</td>
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<td>139.7-147.7 (7.7-8.1)</td>
<td>172.6-183.1 (9.8-9.8)</td>
<td>194.6-228.0 (10.5-12.3)</td>
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<td>483.9-464.2 (25.2-25.3)</td>
<td>542.3-575.3 (29.7-30.8)</td>
<td>611.6-705.0 (33.0-35.5)</td>
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<td>Inhalation Therapy</td>
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<td>20.0-21.1 (1.1-1.2)</td>
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<td>48.4-46.6 (24.2-25.5)</td>
<td>56.2-57.5 (30.3-31.1)</td>
<td>61.2-70.4 (43.3-43.9)</td>
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<td>24.7-26.2 (1.4-1.4)</td>
<td>27.8-32.0 (1.5-1.6)</td>
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</tbody>
</table>

**Notes:** From previous table.
The low figures of this table are derived by dividing the low end of the range for average week or 3-hour period contacts of the previous table by patient process times. The high figures are derived by increasing the high end of the range for the average week contact figure by 1.1; or, the average 3-hour period contact figure by 1.4, before dividing by the patient process times. (This, in effect, approximates a maximum condition.) The calculation assumes a constant flow for the 3-hour period, but the top of the range would allow for fluctuations on a normal day. For any given 3-hour period, the low end of the range should be adequate 50% of the time; the top end, approaching 100% of the time. This table is based on a 9-hour day, 5-day week for outpatients. Inpatient times for bed conditions are stated in days instead of weeks and are based on the average and maximum week. Area figures are for inpatient and outpatient combined totals.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Admission/Registration**</td>
<td>10</td>
<td>1.2-1.8</td>
<td>1.5-2.2</td>
<td>1.7-2.0</td>
</tr>
<tr>
<td>Medical/Surgical Bed</td>
<td>6.5 days</td>
<td>50-59</td>
<td>53-61</td>
<td>55-69</td>
</tr>
<tr>
<td>Obstetrical Bed***</td>
<td>4 days</td>
<td>7-9</td>
<td>8-10</td>
<td>8-11</td>
</tr>
<tr>
<td>Surgery</td>
<td>60</td>
<td>0.3-0.5</td>
<td>0.4-0.6</td>
<td>0.4-0.6</td>
</tr>
<tr>
<td>Delivery**</td>
<td>60</td>
<td>0.2-0.3</td>
<td>0.2-0.4</td>
<td>0.2-0.4</td>
</tr>
<tr>
<td>Emergency</td>
<td>30</td>
<td>0.4-0.6</td>
<td>0.5-0.7</td>
<td>0.6-0.7</td>
</tr>
<tr>
<td>Patient Exam*</td>
<td>15</td>
<td>2.1-3.1</td>
<td>2.6-3.8</td>
<td>2.9-4.0</td>
</tr>
<tr>
<td>Radiology</td>
<td>15</td>
<td>1.1-1.6</td>
<td>1.4-2.0</td>
<td>1.5-2.0</td>
</tr>
<tr>
<td>Physical Therapy</td>
<td>30</td>
<td>0.2-0.3</td>
<td>0.2-0.3</td>
<td>0.3-0.3</td>
</tr>
</tbody>
</table>

Note:  
*An area for performing laboratory, EKG, and inhalation therapy procedures on an outpatient basis; inpatient contacts are made in the inpatient rooms.  
**For combined inpatient and outpatient registration functions.  
***Obstetrical beds and delivery were increased to compensate for the fact that DeKalb Memorial Hospital serves all of DeKalb County in obstetrical care.
and about one hour in the delivery section. The delivery by cesarean section will be carried out in the Surgical division in a major operating room. Observation of the Nursery by young children is desired and can be done if viewing is arranged off a public space. The delivery area should have no through traffic. The waiting area should be able to be turned into a patient room if needed this requires the plumbing of an ordinary room then be installed.

The Medical and Surgical inpatient wings are similar with the surgical wing having close association with the surgery division. The inpatient wings will house forty beds each with some private, semi-private, and isolation spaces making up the levels. Each of the wings will have a nursing station, office, medication prep area, charting area, toilet, lavatory, clean and soiled storage, equipment, lounge, lockers, and janitor's closet. The floor shall need a floor pantry, clean linen, soiled linen, public waiting, multipurpose (conference and demostration), wheelchair storage, treatment rooms.

The patient room will have natural light with the window less than three feet above the floor. The room shall have a private toilet and lavatory. Clearance of three feet
is required around three sides of each bed with closet space provided.

The Intensive and Coronary units shall have a direct relationship with the surgery division. This relationship will enable the doctors to have easy access to these very critical patients. The intensive and Coronary shall require for 24 hour observation of the patients. This observation may be a nursing unit which is shared between the two units. Separate rooms are not required in this area but the ability to close off any one patient is desired (curtain). The nursing unit shall have a monitoring area, charting, medication preparation, observation desk, workroom, equipment storage, and a waiting area separate for the public waiting space (view out important consideration).

The Nursing Care Division is just part of a larger system that includes Diagnostic and Treatment Division, Administration Division, Ancillary and Supportive Divisions which all in turn constitute a medical facility. A community that has such a facility must also offer the capacity for its physicians to develop a private practice or face the problem of securing medical professionals. The Auburn com-
munity will help solve this problem with the introduction of a Medical Arts Building to accommodate twelve (12) of its 17 practicing physicians. This facility is designated for the physicians private practice but has a close relation with the actual medical facility.

The Auburn Community Hospital will also work in cooperation with the larger medical facilities located in Fort Wayne. A patient which can not be properly accommodated at Auburn (ie, a disturbed psychiatric patient) will simply be referred to Parkview Hospital in Fort Wayne. The frequency of such occurrences makes the referral system a very logical solution.

The four major divisions of the hospital shall be used to help break down the space allocations; the following

a.) Nursing Care Division
b.) Diagnostic and Treatment Division
c.) Administration Division
d.) Ancillary and Supportive Division

pages have been developed using the Hill-Burton Act and the State of Indiana Code for Hospitals as guidelines.
### Summary

<table>
<thead>
<tr>
<th>AREA</th>
<th>SQUARE FEET</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total project; I.</td>
<td>Nursing Care Division</td>
</tr>
<tr>
<td>Diagnostic and Treatment</td>
<td>9,205</td>
</tr>
<tr>
<td>Administration Division</td>
<td>6,070</td>
</tr>
<tr>
<td>Ancillary and Supportive</td>
<td>16,810</td>
</tr>
<tr>
<td>Circulation and Structure-30%</td>
<td>26,089</td>
</tr>
<tr>
<td><strong>total</strong></td>
<td><strong>89,039</strong></td>
</tr>
</tbody>
</table>

II.) Medical Arts Building                  | 13,560      |
Circulation and Structure                   | 3,390       |
**total**                                   | **16,950**  

III.) Parking Requirements

- Medical Arts and Hospital Visitors  72  
- Medical Arts Doctors                 12  
- Hospital Doctors                     20  
- Hospital Staff                       60  
- Hospital Patient                     60  
- Emergency Parking                    6   

**total**                                  | **230**      

**Auburn Community Hospital**

**Program**
nursing

**Summary:**
- Medical Inpatient Care Division: 8,420
- Surgical Inpatient Care Division: 8,560
- Maternity Care Division: 6,020
- Surgical Suite: 3,445
- Intensive and Coronary Care Division: 1,595
- Emergency: 2,825

Total = 30,865

---

**Medical Inpatient Division**

<table>
<thead>
<tr>
<th>Patient; single bed units</th>
<th>4 x 150</th>
<th>600</th>
</tr>
</thead>
<tbody>
<tr>
<td>double bed units</td>
<td>18 x 210</td>
<td>3780</td>
</tr>
<tr>
<td>isolation units</td>
<td>4 x 150</td>
<td>600</td>
</tr>
<tr>
<td>lavatory/toilet</td>
<td>26 x 35</td>
<td>910</td>
</tr>
<tr>
<td>bath/wc/lavatory</td>
<td>2 x 80</td>
<td>160</td>
</tr>
</tbody>
</table>

**Nursing; Station**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Office</td>
<td>120</td>
</tr>
<tr>
<td>Medication prep/ charting</td>
<td>100</td>
</tr>
<tr>
<td>Toilet/lavatory</td>
<td>40</td>
</tr>
<tr>
<td>Clean and soiled (counter &amp; sink)</td>
<td>100</td>
</tr>
<tr>
<td>Equipment storage</td>
<td>150</td>
</tr>
<tr>
<td>Lounge/ lockers</td>
<td>150</td>
</tr>
<tr>
<td>Janitor’s closet</td>
<td>40</td>
</tr>
</tbody>
</table>
### General
- Floor pantry: 125
- Clean linen: 200
- Soiled linen: 100
- Waiting: 230
- Multipurpose (conf./demo.): 200
- Wheelchair storage: 30
- Treatment room: 160

Total: 8,420

### Surgical Inpatient Division

<table>
<thead>
<tr>
<th>Patient</th>
<th>Single bed units</th>
<th>Double bed units</th>
<th>Isolation bed units</th>
<th>Toilet/lavatory</th>
<th>Bath/wc/lavatory</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4 @ 150</td>
<td>18 @ 210</td>
<td>4 @ 150</td>
<td>26 @ 35</td>
<td>2 @ 80</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Medical station: 170
- Office: 120
- Medication prep/charting: 100
- Clean/soiled utility: 100
- Equipment storage: 150
- Lounge and lockers: 150
- Janitor's closet: 40

Total: 8,560

### Maternity Care Division

<table>
<thead>
<tr>
<th>Patient</th>
<th>Single bed units</th>
<th>Double bed units</th>
<th>Lavatory/toilet</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 @ 150</td>
<td>4 @ 210</td>
<td>6 @ 35</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Treatment room: 200
- Clean storage: 200
- Soiled linen: 150
- Waiting: 250
- Wheelchair storage: 30
- Floor pantry: 125

Total: 8,560

---

**Auburn Community Hospital Program**
<table>
<thead>
<tr>
<th>Location</th>
<th>Area (sq ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nursing</td>
<td></td>
</tr>
<tr>
<td>station</td>
<td>170</td>
</tr>
<tr>
<td>charting</td>
<td>50</td>
</tr>
<tr>
<td>lavatory/toilet</td>
<td>40</td>
</tr>
<tr>
<td>medication prep.</td>
<td>50</td>
</tr>
<tr>
<td>clean/soiled utility</td>
<td>300</td>
</tr>
<tr>
<td>equipment storage</td>
<td>100</td>
</tr>
<tr>
<td>office</td>
<td>120</td>
</tr>
<tr>
<td>janitor closet</td>
<td>40</td>
</tr>
<tr>
<td>General</td>
<td></td>
</tr>
<tr>
<td>floor pantry</td>
<td>120</td>
</tr>
<tr>
<td>waiting</td>
<td>300</td>
</tr>
<tr>
<td>supply storage</td>
<td>100</td>
</tr>
<tr>
<td>soiled holding</td>
<td>200</td>
</tr>
<tr>
<td>Nursery</td>
<td></td>
</tr>
<tr>
<td>nursery 16 cribs</td>
<td>400</td>
</tr>
<tr>
<td>formula pantry</td>
<td>100</td>
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<tr>
<td>isolation 2 cribs</td>
<td>80</td>
</tr>
<tr>
<td>observation</td>
<td>120</td>
</tr>
<tr>
<td>charting/medication</td>
<td>100</td>
</tr>
<tr>
<td>examination</td>
<td>80</td>
</tr>
<tr>
<td>workroom</td>
<td>80</td>
</tr>
<tr>
<td>janitor's closet</td>
<td>40</td>
</tr>
<tr>
<td>Delivery</td>
<td></td>
</tr>
<tr>
<td>labor room</td>
<td>400</td>
</tr>
<tr>
<td>shower/toilet labor</td>
<td>100</td>
</tr>
<tr>
<td>delivery room</td>
<td>600</td>
</tr>
<tr>
<td>lockers/shower/wc/lav.</td>
<td>240</td>
</tr>
<tr>
<td>staff lounge</td>
<td>160</td>
</tr>
<tr>
<td>workroom</td>
<td>100</td>
</tr>
<tr>
<td>substerile</td>
<td>200</td>
</tr>
<tr>
<td>storage/sterile</td>
<td>60</td>
</tr>
<tr>
<td>anesthesia</td>
<td>80</td>
</tr>
<tr>
<td>equipment</td>
<td>100</td>
</tr>
<tr>
<td>recovery</td>
<td>150</td>
</tr>
<tr>
<td>scrub facilities</td>
<td>100</td>
</tr>
<tr>
<td>Total</td>
<td>6,020</td>
</tr>
</tbody>
</table>

**Surgical Suite Division**

<table>
<thead>
<tr>
<th>Location</th>
<th>Area (sq ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Support</td>
<td></td>
</tr>
<tr>
<td>receiving</td>
<td>200</td>
</tr>
<tr>
<td>recovery</td>
<td>500</td>
</tr>
</tbody>
</table>

**auburn community hospital**
<table>
<thead>
<tr>
<th>Service</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>lounge</td>
<td>150</td>
</tr>
<tr>
<td>lockers/wc/lav</td>
<td>200</td>
</tr>
<tr>
<td>supervisor</td>
<td>100</td>
</tr>
<tr>
<td>assisting: anesthesia office</td>
<td>100</td>
</tr>
<tr>
<td>clean-up</td>
<td>50</td>
</tr>
<tr>
<td>instrument storage</td>
<td>125</td>
</tr>
<tr>
<td>nurse's station</td>
<td>170</td>
</tr>
<tr>
<td>soiled/clean utility</td>
<td>100</td>
</tr>
<tr>
<td>scrub-up</td>
<td>100</td>
</tr>
<tr>
<td>instrumentation</td>
<td>200</td>
</tr>
<tr>
<td>holding</td>
<td>100</td>
</tr>
<tr>
<td>surgery; surgery room</td>
<td>1,600</td>
</tr>
</tbody>
</table>

**Total:** 3,445

**Intensive and Coronary Care Division**

<table>
<thead>
<tr>
<th>Service</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>general: coronary 3 beds</td>
<td>300</td>
</tr>
<tr>
<td>intensive 3 beds</td>
<td>300</td>
</tr>
<tr>
<td>monitoring</td>
<td>120</td>
</tr>
<tr>
<td>charting/medication prep.</td>
<td>100</td>
</tr>
<tr>
<td>nurse station</td>
<td>170</td>
</tr>
<tr>
<td>workroom</td>
<td>60</td>
</tr>
<tr>
<td>equipment storage</td>
<td>100</td>
</tr>
<tr>
<td>waiting/wc/law.</td>
<td>230</td>
</tr>
</tbody>
</table>

**Total:** 1,595

**Emergency**

<table>
<thead>
<tr>
<th>Service</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>general: emergency room</td>
<td>200</td>
</tr>
<tr>
<td>patient examination</td>
<td>800</td>
</tr>
<tr>
<td>waiting patient</td>
<td>680</td>
</tr>
<tr>
<td>public waiting</td>
<td>120</td>
</tr>
<tr>
<td>lounge</td>
<td>500</td>
</tr>
<tr>
<td>admitting office</td>
<td>400</td>
</tr>
<tr>
<td>admitting booth</td>
<td>125</td>
</tr>
<tr>
<td>janitor's closet</td>
<td>50</td>
</tr>
<tr>
<td>storage/clean/soiled</td>
<td>200</td>
</tr>
</tbody>
</table>

**Total:** 2,825

*auburn community hospital*
# Diagnostic and Treatment

## Summary:
- Radiology: 2,010
- Physical and Occupational Therapy: 1,825
- Laboratory: 2,415
- Morgue and Autopsy: 340
- Pharmacy: 410
- Respiratory Therapy: 675
- Electrocadiography and Electroencephalography: 730
- Library: 800

### Radiology

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radiographic/floroscopic</td>
<td>500</td>
</tr>
<tr>
<td>dressing rooms</td>
<td>140</td>
</tr>
<tr>
<td>toilet/lavatory</td>
<td>120</td>
</tr>
<tr>
<td>inactive film storage</td>
<td>300</td>
</tr>
<tr>
<td>active film storage</td>
<td>200</td>
</tr>
<tr>
<td>reception/office</td>
<td>150</td>
</tr>
<tr>
<td>public waiting</td>
<td>150</td>
</tr>
<tr>
<td>storage</td>
<td>80</td>
</tr>
<tr>
<td>viewing room</td>
<td>100</td>
</tr>
<tr>
<td>dark room</td>
<td>230</td>
</tr>
<tr>
<td>janitor's closet</td>
<td>40</td>
</tr>
</tbody>
</table>

Total: 2,010

### Physical Therapy and Occupational Therapy

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exercise/hydro-treatment</td>
<td>1,000</td>
</tr>
<tr>
<td>Physical therapy office</td>
<td>150</td>
</tr>
<tr>
<td>Occupational therapy office</td>
<td>150</td>
</tr>
<tr>
<td>Crafts</td>
<td>175</td>
</tr>
<tr>
<td>Shops</td>
<td>200</td>
</tr>
<tr>
<td>Lavatory/toilet</td>
<td>50</td>
</tr>
<tr>
<td>Clean/soiled storage</td>
<td>100</td>
</tr>
</tbody>
</table>

Total: 1,825
Laboratory

- general; 1 peninsula bench 200
  - hematology 1 peninsula bench 200
  - urinalysis 1 peninsula bench 100
  - biochemistry 1 peninsula bench 300
  - serology 1 peninsula bench 100
  - radiochemistry 1 peninsula bench 100
  - bacteriology 1 peninsula bench enclosed 200
  - histology 1 peninsula bench enclosed 200
  - blood bank 120
  - glass washer 120
  - splash shower 25
  - laboratory reception 200
  - pathology office 135
  - office 135
  - director office 140
  - classroom 240
  - lavatory/toilet 30
  - storage 100
  - flammable storage 50
  - janitor closet 30

Total: 2,415

Morgue and Autopsy

- general; holding compartments & refrigerated 100
  - autopsy 160
  - shower/wc/lockers 80

Total: 340

Pharmacy

- general; pharmacy 150
  - office 150
  - distribution area 80
  - bulk storage 130

Total: 410
### Respiratory Therapy

<table>
<thead>
<tr>
<th>Category</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pulmonary function/pulmonary office</td>
<td>300</td>
</tr>
<tr>
<td>Clean-up/storage</td>
<td>200</td>
</tr>
<tr>
<td>Lavatory/toilet</td>
<td>30</td>
</tr>
<tr>
<td>Gas cylinder storage</td>
<td>20</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>675</strong></td>
</tr>
</tbody>
</table>

### Library

<table>
<thead>
<tr>
<th>Category</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office</td>
<td>110</td>
</tr>
<tr>
<td>Check-out</td>
<td>40</td>
</tr>
<tr>
<td>Microfilm viewing</td>
<td>100</td>
</tr>
<tr>
<td>Book stacks</td>
<td>400</td>
</tr>
<tr>
<td>Reading area</td>
<td>150</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>880</strong></td>
</tr>
</tbody>
</table>

### EKG and EEG

<table>
<thead>
<tr>
<th>Category</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>EKG testing stress</td>
<td>250</td>
</tr>
<tr>
<td>EEG protect against frequency interference</td>
<td>100</td>
</tr>
<tr>
<td>EKG dictation</td>
<td>30</td>
</tr>
<tr>
<td>EKG files</td>
<td>200</td>
</tr>
<tr>
<td>Office</td>
<td>150</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>730</strong></td>
</tr>
</tbody>
</table>

---

*auburn community hospital program*
**admistration**

**summary:**
- Main Entrance and Lobby: 1,600
- Information: 80
- Public Restrooms: 200
- Switchboard: 100
- Staff Lounge: 150
- Admitting: 1,305
- Nursing Administration: 385
- Executive Administration: 925
- Financial Management: 1,365

Total: 6,070

---

**Admitting**

<table>
<thead>
<tr>
<th>general;</th>
<th>receptionists area</th>
<th>80</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>admitting area</td>
<td>4 x 25</td>
</tr>
<tr>
<td></td>
<td>office</td>
<td>125</td>
</tr>
<tr>
<td></td>
<td>medical records</td>
<td>800</td>
</tr>
<tr>
<td></td>
<td>file clerk</td>
<td>125</td>
</tr>
<tr>
<td></td>
<td>storage</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>wheelchair</td>
<td>25</td>
</tr>
</tbody>
</table>

Total: 1,305

---

**Financial Management**

<table>
<thead>
<tr>
<th>general;</th>
<th>accounting</th>
<th>250</th>
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<tbody>
<tr>
<td></td>
<td>secretarial</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>business manager's office</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td>cashier/vault</td>
<td>140</td>
</tr>
<tr>
<td></td>
<td>computer</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td>data pick-up/delivery</td>
<td>125</td>
</tr>
<tr>
<td></td>
<td>programmer/analyst</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td>storage</td>
<td>100</td>
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</table>

Total: 1,365

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**auburn community hospital**

**program**
### Executive Administration

<table>
<thead>
<tr>
<th>Role</th>
<th>Hours</th>
<th>Rate</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>general administrator</td>
<td>200</td>
<td>200</td>
<td>400</td>
</tr>
<tr>
<td>secretary</td>
<td>125</td>
<td>125</td>
<td>150</td>
</tr>
<tr>
<td>conference/board room</td>
<td>2</td>
<td>200</td>
<td>400</td>
</tr>
<tr>
<td>lavatory/toilet</td>
<td>80</td>
<td>80</td>
<td>80</td>
</tr>
<tr>
<td>storage</td>
<td>120</td>
<td>120</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>925</td>
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</table>

### Nursing Administration

<table>
<thead>
<tr>
<th>Role</th>
<th>Hours</th>
<th>Rate</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>general; director</td>
<td>160</td>
<td>160</td>
<td>256</td>
</tr>
<tr>
<td>secretary</td>
<td>125</td>
<td>125</td>
<td>150</td>
</tr>
<tr>
<td>storage</td>
<td>80</td>
<td>80</td>
<td>80</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>385</td>
</tr>
</tbody>
</table>

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auburn community hospital

program
### ancillary and supportive

<table>
<thead>
<tr>
<th>Summary</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapel</td>
<td>150</td>
</tr>
<tr>
<td>Snack Bar</td>
<td>700</td>
</tr>
<tr>
<td>Gift Shop</td>
<td>300</td>
</tr>
<tr>
<td>Dietary</td>
<td>4,720</td>
</tr>
<tr>
<td>Power Plant</td>
<td>5,885</td>
</tr>
<tr>
<td>Employee Area</td>
<td>670</td>
</tr>
<tr>
<td>Laundry</td>
<td>1,000</td>
</tr>
<tr>
<td>Central Medical and Surgical Supply</td>
<td>785</td>
</tr>
<tr>
<td>Central Stores</td>
<td>2,600</td>
</tr>
<tr>
<td></td>
<td><strong>16,810</strong></td>
</tr>
</tbody>
</table>

### Dietary

<table>
<thead>
<tr>
<th>Category</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>General;</td>
<td></td>
</tr>
<tr>
<td>Office</td>
<td>125</td>
</tr>
<tr>
<td>Preparation</td>
<td>1,400</td>
</tr>
<tr>
<td>Tray preparation</td>
<td>600</td>
</tr>
<tr>
<td>Washing/drying</td>
<td>200</td>
</tr>
<tr>
<td>Receiving</td>
<td>80</td>
</tr>
<tr>
<td>Day storage 4 day</td>
<td>150</td>
</tr>
<tr>
<td>Freezer/refrigerator</td>
<td>125</td>
</tr>
<tr>
<td>Toilet/lavatory</td>
<td>30</td>
</tr>
<tr>
<td>Janitor's closet</td>
<td>30</td>
</tr>
<tr>
<td>Dining room</td>
<td>1,500</td>
</tr>
<tr>
<td>Serving</td>
<td>300</td>
</tr>
<tr>
<td>Public restrooms</td>
<td>80</td>
</tr>
<tr>
<td>Trash pick-up</td>
<td>100</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>4,720</strong></td>
</tr>
</tbody>
</table>

### Power Plant

<table>
<thead>
<tr>
<th>Category</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>General;</td>
<td></td>
</tr>
<tr>
<td>Incinerator</td>
<td>200</td>
</tr>
<tr>
<td>Lavatory/toilet/office</td>
<td>185</td>
</tr>
<tr>
<td>Lockers</td>
<td>100</td>
</tr>
<tr>
<td>Delivery/storage/maintenance shop</td>
<td>1,200</td>
</tr>
<tr>
<td>Boilers/fan</td>
<td>1,500</td>
</tr>
<tr>
<td>Chillers/fan</td>
<td>1,500</td>
</tr>
<tr>
<td>Water conditioning</td>
<td>500</td>
</tr>
<tr>
<td>Electric generators</td>
<td>1,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>5,885</strong></td>
</tr>
</tbody>
</table>

---

**auburn community hospital**

**program**
### Employee Area

<table>
<thead>
<tr>
<th>Service</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>general; men's lockers</td>
<td>220</td>
</tr>
<tr>
<td>women's lockers</td>
<td>250</td>
</tr>
<tr>
<td>lounge</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td><strong>670</strong></td>
</tr>
</tbody>
</table>

### Laundry

<table>
<thead>
<tr>
<th>Service</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>general; sorting</td>
<td>100</td>
</tr>
<tr>
<td>washing</td>
<td>75</td>
</tr>
<tr>
<td>extracting</td>
<td>75</td>
</tr>
<tr>
<td>drying</td>
<td>75</td>
</tr>
<tr>
<td>pressing</td>
<td>125</td>
</tr>
<tr>
<td>folding</td>
<td>125</td>
</tr>
<tr>
<td>mending/marking/storage</td>
<td>200</td>
</tr>
<tr>
<td>distributing</td>
<td>100</td>
</tr>
<tr>
<td>surgical instruments</td>
<td>100</td>
</tr>
<tr>
<td>office</td>
<td>125</td>
</tr>
<tr>
<td></td>
<td><strong>1,100</strong></td>
</tr>
</tbody>
</table>

### Central Medical and Surgical Supply

<table>
<thead>
<tr>
<th>Service</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>general; receiving/clean-up</td>
<td>80</td>
</tr>
<tr>
<td>sterile storage/workshop</td>
<td>125</td>
</tr>
<tr>
<td>sterilizing</td>
<td>150</td>
</tr>
<tr>
<td>non-sterile storage</td>
<td>125</td>
</tr>
<tr>
<td>distributing</td>
<td>80</td>
</tr>
<tr>
<td>surgical instruments</td>
<td>100</td>
</tr>
<tr>
<td>office</td>
<td>125</td>
</tr>
<tr>
<td></td>
<td><strong>785</strong></td>
</tr>
</tbody>
</table>

### Central Stores

<table>
<thead>
<tr>
<th>Service</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>general; unloading dock</td>
<td>200</td>
</tr>
<tr>
<td>storage</td>
<td>1,200</td>
</tr>
<tr>
<td>ambulance storage/sleeping/dining</td>
<td>1,200</td>
</tr>
<tr>
<td></td>
<td><strong>2,600</strong></td>
</tr>
</tbody>
</table>
# Medical Arts

<table>
<thead>
<tr>
<th>Medical Arts Building</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>general; physician unit</td>
<td>2 * 1,130</td>
<td>2,260</td>
<td></td>
</tr>
<tr>
<td>pediatric</td>
<td>1,130</td>
<td></td>
<td></td>
</tr>
<tr>
<td>dermatologist</td>
<td>1,130</td>
<td></td>
<td></td>
</tr>
<tr>
<td>gynecologist</td>
<td>1,130</td>
<td></td>
<td></td>
</tr>
<tr>
<td>psychiatrist</td>
<td>1,130</td>
<td></td>
<td></td>
</tr>
<tr>
<td>obstetrician</td>
<td>1,130</td>
<td></td>
<td></td>
</tr>
<tr>
<td>otolarynologist</td>
<td>1,130</td>
<td></td>
<td></td>
</tr>
<tr>
<td>dentist</td>
<td>2 * 1,130</td>
<td>2,260</td>
<td></td>
</tr>
<tr>
<td>ophthalmologist</td>
<td>1,130</td>
<td></td>
<td></td>
</tr>
<tr>
<td>optometrist</td>
<td>1,130</td>
<td></td>
<td></td>
</tr>
<tr>
<td>reception</td>
<td>125</td>
<td></td>
<td></td>
</tr>
<tr>
<td>waiting/restrooms/circulation</td>
<td></td>
<td>3,395</td>
<td></td>
</tr>
</tbody>
</table>

| Total                        | 16,950 |

| unit;                        |   |   |   |
| office/waiting               |   |   | 240 |
| examination space            | 3 \* 80 | 240 |
| physician's office           |   | 200 |
| lavatory/toilet              |   | 40 |
| preparation/storage          |   | 260 |
| circulation/structure        |   | 150 |

| Total                        | 1,130 |
FIRST QUARTER ANALYSIS

location; DeKalb County in northeastern Ind.

regional; analysis of site conditions, breakdown of areas

FIRST QUARTER ANALYSIS

regional; commercial and social nodes, site traffic access loads, general site slope

site; analysis of site to as location of the structure; using soil conditions, noise, environmental, codes, etc.
5. Final drawings

DESIGN DEVELOPMENT

1st level: flow diagrams; traffic, staff, visitor, emergency, patient, administration, fire exits—view

2nd level: surgery flows, intensive and coronary, surgical inpatient, visitor

3rd level: maternity flows, maternity inpatient, medical inpatient, visitor, staff and material flow
Statement

The design of a hospital is possibly one of the most complex building types to design. It has direct relationships which must be recognized while still trying to develop a flexible design which reads as a whole. In designing Auburn Community Hospital I have but stratched the surface but have received enormous insight into this maze of complex relations. The ability to even tackle this scope of project leaves one with the confidence to approach most any other project in my professional career.
Thompson, John and Goldin, Grace; The Hospital: A Social and Architectural History, copyright 1975, Hurry Printing Co.

DeKalb-Steuben Counties, Plot Book and Index, copyright 1972, Town and Country Publishing

Cochran, Robert, Dettmer Hospital Expansion Program, copyright 1976, Fanning and Howey Health Care Division

Ramsey and Sleeper, Architectural Graphic Standards, copyright 1970, American Institute of Architects

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Cochran, Robert, Sacred Heart Program, copyright 1976, Fanning and Howey Care Division

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Hudenburg, Roy, Planning the Community Hospital, copyright 1972, Reinhold Company

Carner, Donald; Planning for Hospital Expansion and Remodeling, C.C. Thomas Company, copyright 1968


*Hospital Design Checklist*, American Hospital Association, copyright 1965

Gruffyld, Bodfan, *Landscaping for New Hospitals*, King Edward Hospital Fund, copyright 1967