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0.1 Proposal

This quarter shall be used to examine functional needs of each individual space in terms of staffing requirements, room requirements, equipments, and comparison of programmed square footages, revised square footages, and actual square footages; revised structural systems schematic design and layout; revised mechanical systems schematic design and layout; development of a design methodology for conventional design and prototypical design situations; conceptual ideas for future application of prototypical units; expansion of bibliographical resources for outpatient medical facilities and health care systems; and thesis evaluation.
1.0 FUNCTIONAL SQUARE FOOTAGE ANALYSIS

In attempting to evaluate any final architectural solution involving a written program, it becomes necessary to compare initial programmed square footages, revised square footages, and actual square footages. This portion of my thesis shall reflect this hypothesis in an attempt to further evaluate my own project in terms of programatic, schematic, and design development.
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<th>Revised Square footages</th>
<th>Actual Square footages</th>
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2.0 FUNCTIONAL AREA REQUIREMENTS

2.1 Administrative functions
2.1.1 Administration:

2.1.1.1 Staffing requirements:
Business Manager 1
Administrator 1
Medical Director 1
Dental Director 1
Nurses Supervisor 1
Accountant 1
Bookkeeper 1
Typists 4
Secretaries 4

2.1.1.2 Room requirements
Access: Near public entrance, on main circulation, on secondary circulation

Service methods: People

Service types: mail, supplies, trash, records

Sounds: noise generation, moderate zone

Control: security

Floors: carpet

Walls: moveable, vinyl covering, cork covering, washable

Ceilings: acoustical, minimum height 8'0"

Base: 2" sanitary

Doors: light, lockset

Windows: tinted glass, curtains

Mechanical: air condition, temperature 70°, separate thermostat

Communications: telephone

Electrical: 110v, wall outlets, floor outlets

Lighting: fluorescent, footcandles 110, color correction
2.1.1.3 Equipments:
electronic data processing equipments, filing cabinets, desks, chairs, conference table, storage cabinets, adjustable shelving, trash cans, telephones, switchboard, clock
2.1.2 Admitting:

2.1.2.1 Staffing requirements:
Receptionist 1
Secretary 1

2.1.2.2 Room Requirements:
Access: Near public entry on main circulation, near parking
Service methods: Wheelchair, people
Sound: In noisy zone; noise generator
Control: Security, visual
Floors: Resilient, carpet
Walls: Washable, vinyl covered
Ceilings: Acoustical, minimum height 8'0"
Base: 2" sanitary
Doors: oversize, lockset, light
Windows: Tinted
Mechanical: Air condition, temperature 70°F
Electrical: 110v
Lighting: Fluorescent, natural light, exit light footcandles 55

2.1.2.3 Equipments:
Entry mats, counter 36" high w/storage and adjustable shelves below, chairs, file drawers
2.2.1.1 Physical examination and treatment:

2.2.1.1.1 Staffing requirements:
Physicians

2.2.1.1.2 Room requirements:
Access: on secondary circulation
Service methods: wheelchair, people
Service types: supplies, trash, records, specimens
Sound: in quiet zone
Control: from nurses station
Floors: carpet
Walls: washable, vinyl covering
Ceilings: acoustical, minimum height 8'0"
Base: 2" sanitary
Door: oversized
Mechanical: air condition, temperature 70°, separate thermostat
Plumbing: cold water, hot water, lavatory
Electrical: 110v, wall outlet, floor outlet
Lighting: fluorescent, color corrected

2.2.1.1.3 Equipments:
worktop counter, lavatory unit, cubicle curtain, clothes hook, chair, utility table, instrument table, examination table, foot stool, bulletin board, adjustable stool, film illuminator, examining light, soap dispenser, paper towel dispenser, waste can
2.2.1.2 Physicians preparation:

2.2.1.2.1 Staffing requirements:
None

2.2.1.2.2 Room requirements:
Access: on secondary circulation
Service methods: people
Service types: supplies, trash, records, specimens
Sound: in moderate zone
Control: security
Floors: resilient
Walls: washable, vinyl covered
Ceilings: acoustical, minimum height 7'6"
Base: 2" sanitary
Doors: no light
Mechanical: air condition, temperature 70°
Plumbing: cold water, hot water, counter sink
Electrical: 110v, 220v 3d wall, plugmold, wall outlet
Lighting: fluorescent, footcandles 55, color corrected

2.2.1.2.3 Equipments:
shelving for specimen holding, 36" high counter w/ cabinets below, medicine cabinet, counter sink w/ gooseneck spout and blade-handles, paper towel dispenser, counter type refrigerator, soap dispenser, trash container, set shelving above counter w/ adjustable shelving as needed, laundry hamper
2.2.1.3 Dental examination and treatment

2.2.1.3.1 Staffing requirements:
Dentists 8

2.2.1.3.2 Room requirements:
Access: on secondary circulation
Service methods: wheelchair, people
Service types: supplies, trash, records, specimens
Sound: in quiet zone
Floors: resilient, stain resistant
Walls: washable, stain resistant, vinyl covered
Ceilings: acoustical, moisture resistant, minimum height 8'0"
Base: 2" sanitary, stain resistant
Doors: oversize, no light
Mechanical: air condition, temperature 70°, separate thermostat
Plumbing: cold water, hot water, lavatory
Electrical: fluorescent, footcandle 110, color corrected
Lighting: chair unit, directional

2.2.1.3.3 Equipments:
dental chair unit w/ flex light;
stools (2); counter tops w/ sinks (2); storage cabinets for pre set trays and hand equipments; x-ray unit; wall shelves; amalgumator
2.2.1.4 Dental preparation:

2.2.1.4.1 Staffing requirements:
none

2.2.1.4.2 Room requirements:
Access: on secondary circulation
Service methods: people
Service types: supplies, trash, records, specimens
Sound: in moderate zone
Control: security
Floors: resilient
Walls: washable, vinyl covered
Ceilings: acoustical, minimum height 7'6"
Base: 2" sanitary
Doors: no light
Mechanical: air condition, temperature 70°
Plumbing: cold water, hot water, counter sink
Electrical: 110v, 220v 3M plugmold, wall outlets
Lighting: fluorescent, footcandles 55, color corrected

2.2.1.4.3 Equipments:
36" high counter w/ cabinets below, medicine cabinet, counter sink w/ gooseneck spout and bladehandles, paper towel dispenser, soap dispenser, trash container, laundry hamper, cold sterilizer, autoclave, supply cabinet, stool, model trimmer, x-ray processing unit
2.2.1.5 Office conference

2.2.1.5.1 Staffing requirements:
none

2.2.1.5.2 Room requirements:
Access: on secondary circulation
Service method: wheelchair, people
Service type: mail, supplies, trash, records
Sound: in quiet zone
Control: security
Floors: carpet
Walls: vinyl covered, washable
Ceilings: acoustical, minimum height 8'0"
Base: 2" sanitary
Doors: oversized, lockset
Mechanical: air condition, temperature 70⁰, separate thermostat
Communications: telephone
Electrical: 110v, wall outlet, floor outlet
Lighting: fluorescent, footcandles 110, color corrected

2.2.1.5.3 Equipments:
credenza, desk, filing cabinet, chairs, end table, lamp, couch,
2.2.1.6 Nurses station: (patient control station)

2.2.1.6.1 Staffing requirements:
nurses 2
aides 2
receptionists 1

2.2.1.6.2 Room requirements:
Access: on major circulation,
on secondary
circulation, near
service point

Service methods: cart, wheel-
chair, people

Service types: mail, supplies,
trash

Sound: moderate zone

Control: visual

Floors: resilient

Walls: washable, counter

Ceilings: acoustical, minimum
height 8'0"

Base: sanitary

Mechanical: 8 air changes/hour,
0 room pressure,
air condition,
temperature 70°,
separate thermostat,
exhaust normal

Communications: telephone,
paging, dicta-
phone, nurses
call

Electrical: 110v, wall outlet,
emergency, counter
outlet

Lighting: fluorescent, emergency
footcandles 75, color
corrected
2.2.1.6.3 Equipments:
36" high counter, nurses call master station, stools, files, waste cans, telephone
2.2.1.7 Clean linens

2.2.1.7.1 Staffing requirements:
none

2.2.1.7.2 Room requirements:
Access: on secondary
circulation, near
service point

Service methods: cart, people

Service types: supplies,
laundry

Sound: in moderate zone

Control: security

Floors: resilient, stain
resistant

Walls: washable

Ceilings: acoustical; minimum
height 8’0”

Base: sanitary

Doors: no light, lockset,
kickplate

Mechanical: positive room
pressure, air
condition,
temperature 70°,
exhaust normal

Plumbing: cold water, hot
water, counter sink

Electrical: 110v, plugmold

Lighting: fluorescent, 50
footcandles

2.2.1.7.3 Equipments:
36” high counter w/ shelving
above and below as needed,
bulletin board, countersink w/
gooseneck spout and bladehandle
controls, paper towel dispenser,
soap dispenser, supply carts,
linen shelving unit, waste can
2.2.1.8 Soiled linens

2.2.1.8.1 Staffing requirements:
none

2.2.1.8.2 Room requirements:
Access: on secondary circulation, near service point
Service methods: cart, people
Service types: trash, laundry
Sound: moderate zone
Control: security
Floors: resilient, stain resistant
Walls: washable
Ceilings: acoustical, minimum height 8'0"
Base: sanitary
Doors: no light, lockset, kick-plate
Mechanical: negative room pressure, temperature 70°, air condition, exhaust normal
Plumbing: hot water, cold water, service sink
Electrical: 110v, wall outlet
Lighting: fluorescent, foot-candles 50

2.2.1.8.3 Equipments:
36" high counter w/ shelving above and below as needed, adjustable wall shelving, bulletin board service sink, paper towel dispenser, soap dispenser, utility carts, waste can
2.2.2 Laboratory:

2.2.2.1 Staffing requirements:
Pathologist 1
Technologists 4
Receptionist (secretary) 1

2.2.2.2 Room requirements:
Access: on secondary corridor
Service methods: dumbwaiter, wheelchair, people
Service types: supplies, trash, specimens
Sound: in quiet zone
Control: visual
Floors: resilient, stain resistant
Walls: washable, stain resistant, vinyl covered
Ceilings: acoustical, minimum height 8' 0"
Base: 2" sanitary, stain resistant
Doors: no light, oversize
Mechanical: room pressure slightly positive for bacteriology/seriology, air condition, temperature 70°, separate thermostat, exhaust fume hoods
Communications: telephone
Plumbing: cold water, hot water, counter sinks, service sinks, acid consideration, safety shower
Fire protection: extinguishers
Electrical: 110v, 220v 30, wall plugs, plugmold
Lighting: fluorescent, footcandles 55 general, footcandles 110 localized
2.2.2.3 Equipments:
36" high counter tops w/ acid resistant surface, cabinets w/ adjustable shelving, stools, sinks, outlets for electricity, gas, compressed air, water exhaust air grilles, fume hoods, micro hemotacrit centrifuge, refrigerator, centrifuge, table for harvard trip balance, table for analytical balance, table for instruments, gas cylinder storage cabinets, desk, filing cabinets, book shelves, laboratory pressure sterilizing unit, hot air oven, water still, pipette washer, 2 compartment sink, utility cart, storage cabinets, technicians lockers, waste cans, incubator, staining sink
2.2.3 Radiology:

2.2.3.1 Staffing requirements:
Technicians 2
Control 1

2.2.3.2 Room requirements:
Access: on secondary circulation
Service methods: wheelchair, people
Service types: supplies, trash, laundry, film
Sound: in quiet zone
Control: visual, control when in operation
Floors: resilient
Walls: washable, vinyl covering
Ceilings: acoustical, minimum height 9'6"
Base: 2" sanitary
Doors: no light, oversized, lead shielding
Windows: leaded glass for viewing
Mechanical: air condition, temperature 70°, separate thermostat
Plumbing: hot water, cold water, service sink
Electrical: 110v, 220v 3Ø wall, wall outlets, floor outlets, transformer
Lighting: fluorescent, is footcandles, color corrected
Special: radiation shielding
2.2.3.3 Equipments:
- radiographic unit, warning light,
- safe light, transformer, storage
- cabinet w/ writing counter, laundry
- hamper, clean linen cart, control units,
- utility sink w/ drainboard, paper
- towel dispenser, waste paper
- receptacle, soap dispenser, cassette
- changer, film processor, cassette
- pass box, leaded viewing window, foot
- stool, apron and glove holder, lockers,
- desk, filing cabinets, chairs, film
- illuminator, storage cabinets
2.2.4  Surgery

2.2.4.1  Surgical suites

2.2.4.1.1  Staffing requirements:
Surgeons 2
Assistants 2

2.2.4.1.2  Room requirements:
Access: on secondary circulation
Service method: cart (when necessary), wheelchair, people
Service types: supplies, trash, records, laundry, specimens
Sound: in quiet zone
Control: visual
Floors: resilient, stain resistant, non slip
Walls: washable, stain resistant, vinyl covering
Ceilings: acoustical, moisture resistant, minimum height 9'0"
Base: 2" sanitary, stain resistant
Doors: door w/ no light, oversize for cart and wheelchair
Mechanical: air condition, temperature 70°, separate thermostat
Plumbing: cold water, hot water
Electrical: 110v, 220v 30, wall outlet, floor outlet
Lighting: fluorescent, footcandles 110 general illumination, color corrected
2.2.4.1.3 Equipments: operating table, surgical lights, suction machine, mayo stand, kick bucket, adjustable stools, utility table, anesthesia cart, oxygen tanks, film illuminator, resuscitator, double-ring basin
2.2.4.2 Surgical preparation

2.2.4.2.1 Staffing requirements:
none

2.2.4.2.2 Room requirements:
Access: on secondary circulation
Service method: people
Service types: supplies, trash, records, laundry, specimens
Sound: moderate zone
Control: visual
Floors: resilient, stain resistant, non-slip
Walls: washable, stain resistant, vinyl covered
Ceilings: acoustical, moisture resistant, minimum height 7'6"
Base: 2" sanitary, stain resistant
Doors: no light, oversize
Mechanical: air condition, temperature 70°
Plumbing: hot water, cold water
Electrical: 110v, 220v 30, wall outlet, floor outlet
Lighting: fluorescent, color corrected
2.2.4.2.3 Equipments:
scrub sink, soap dispenser,
paper towel dispenser, stand-
up desk, clock, laundry
hamper, storage cabinet
2.2.4.3 Recovery observation:

2.2.4.3.1 Staffing required:
Nurse 1

2.2.4.3.2 Room requirements:
Access: on secondary circulation
Service methods: cart, wheelchair, people
Sound: in quiet zone
Control: visual
Floors: resilient
Walls: washable, vinyl covered
Ceilings: acoustical, minimum height 8'0"
Base: 2" sanitary
Doors: no light
Windows: tinted glass, draperies
Mechanical: air condition, temperature 70°, separate thermostat
Plumbing: hot water, cold water, lavatory
Electrical: 110v, wall outlet
Lighting: fluorescent, foot-candles 110, color corrected, rheostat

2.2.4.3.3 Equipments:
recovery beds (carts), chairs, cubicle curtains, lavatory, desk, storage cabinet
2.3 Rehabilitative

2.3.1 Rehabilitation

2.3.1.1 Staffing requirements:
Rehabilitationist 1
Assistant 1

2.3.1.2 Room requirements:
Access: on secondary circulation, on primary circulation, near entry
Service methods: cart, wheelchair, people
Service types: supplies, trash, laundry
Sound: noise generation, in moderate zone
Control: visual
Floors: resilient, non-slip, stain resistant
Walls: washable
Ceilings: moisture resistant, minimum height 9'0"
Base: sanitary
Doors: no light, lockset, kickplate
Mechanical: 8 air changes/hour, negative room pressure, air condition, temperature 72°, separate thermostat, exhaust normal
Communications: telephone, nurses call
Plumbing: cold water, hot water
Electrical: 110v, wall outlet
Lighting: fluorescent, footcandles 30, color corrected

2.3.1.3 Equipments:
whirlpool bath, storage cabinet, treatment table, treatment lamps, ultrasonic equipment, electrical diagnostic equipment, chest weights, foot inversion tred, shoulder wheel, bicycle, rowing machine, steps, shoulder ladder, delorme exercise equipment, exercise table w/ weight storage, parallel bars, gym mats, desk, file drawers, chair, bench, lockers
2.4 Supportive functions

2.4.1 Pharmacy:

2.4.1.1 Staffing requirements:
Pharmacist 1
Assistant 1

2.4.1.2 Room requirements:
Access: near public entrance, on primary circulation
Service methods: wheelchair, people
Service types: mail, supplies, trash, records
Sound: in noisy zone
Control: security
Floors: resilient, carpet in public areas
Walls: washable, vinyl covered
Ceilings: acoustical tile; minimum height 8'0"
Base: 2" sanitary
Doors: no light, lockset
Mechanical: air condition, temperature 70°, separate thermostat, exhaust hood
Communications: telephone
Plumbing: cold water, hot water, counter sink
Electrical: 110v, 220v 30, wall outlets
Lighting: fluorescent, foot candles 110

2.4.1.3 Equipments:
dispensing counter 36" high, display case, cash register, counter 36" high w/ storage below and adjustable shelves, counter sink, compounding bench w/ exhaust hood, stools, adjustable shelving, storage bins, telephone desk, filing drawers, chairs
2.4.2 Central services:

2.4.2.1 Staffing requirements:
- Attendants: 2

2.4.2.2 Room requirements:
- Access: on secondary circulation
- Service methods: cart, wheelchair, people
- Service types: supplies, trash, laundry, apparatus
- Sound: moderate zone
- Control: security
- Floor: resilient
- Walls: washable, vinyl covered
- Ceiling: acoustical, minimum height 8'0"
- Base: 2" sanitary
- Doors: no light, lockset, kickplate
- Windows: tinted glass
- Mechanical: four air changes/hour, negative room pressure, one hundred per cent fresh air, air conditioned, temperature 70°, separate thermostat, exhaust ducts and hoods
- Plumbing: cold water, hot water, lavatory, service sink, floor drains
- Electrical: 110v, wall outlets
- Lighting: fluorescent, footcandles 50

2.4.2.3 Equipments:
- Counters w/ 36" high surface, adjustable shelving, storage cabinets, bulletin board, service sink, soap dispenser, paper towel dispenser, trash cans, utility carts, sorting table, work table, desk, filing cabinet, chair, stools
2.4.3 Central stores:

2.4.3.1 Staffing requirements:
Attendant 1

2.4.3.2 Room requirements:
Access: on secondary circulation, outside exit, service entry
Service methods: people, trucks
Service types: supplies, trash, records, laundry
Sound: noisy zone, noise generator
Control: security
Floors: resilient
Walls: washable, epoxy painted
Ceilings: acoustical, minimum height 9'0"
Base: 2" sanitary
Doors: no light
Mechanical: air condition, temperature 70°, separate thermostat
Electrical: 110v, wall outlets
Lighting: fluorescent, footcandles 55

2.4.3.3 Equipments:
adjustable racks and shelving as needed, waste cans, pallettes, desk, chair, filing cabinets
2.4.4 Maintenance:

2.4.4.1 Staffing requirements:
Maintenance foreman 1

2.4.4.2 Room requirements:
Access: on secondary circulation, service entry

Service methods: people, trucks

Service types: supplies, trash, equipments

Sound: noisy zone, noise generator

Control: security

Floors: resilient

Walls: washable

Ceilings: acoustical, minimum height 9'0"

Base: 2" sanitary

Doors: no light

Mechanical: air condition, temperature 70°, separate thermostat

Electrical: 110v, wall outlets, 220v 30

Lighting: fluorescent, footcandles 55

Plumbing: hot water, cold water, service sink

2.4.4.3 Equipments:
Service sink, counter tops at 36" w/ storage below, adjustable shelving
2.4.5 Library:

2.4.5.1 Staffing requirements:
none

2.4.5.2 Room requirements:
Access: on secondary circulation
Service methods: people
Service types: books, trash, records
Sound: quiet zone
Control: visual
Floors: carpet
Walls: washable, vinyl covered
Ceiling: acoustical, minimum height 8'0"
Base: 2" sanitary
Doors: no light
Mechanical: air condition, temperature 70°, separate thermostat
Electrical: 110v, wall outlets
Lighting: fluorescent, footcandles 75

2.4.5.3 Equipments:
adjustable shelving, tables, chairs, trash can
2.4.6 Housekeeping

2.4.6.1 Staffing requirements:
none

2.4.6.2 Room requirements:
Access: on secondary access
Service methods: people
Service types: supplies, trash
Sound: in moderate zone
Control: security
Floors: stain resistant
Walls: washable, stain resistant
Ceilings: acoustical, moisture resistant, minimum height 7'6"
Base: 2" sanitary, stain resistant
Doors: no light
Mechanical: temperature 70°
Plumbing: hot water, cold water, service sink, floor drain
Electrical: 110v, wall outlet
Lighting: fluorescent, footcandles 35

2.4.6.3 Equipments:
service sink, paper towel dispenser, soap dispenser, mop handle holder, supply shelf, waste can, mopping truck
2.4.7 Lounge

2.4.7.1 Staffing requirements:
none

2.4.7.2 Room requirements:
Access: on secondary circulation
Service methods: people
Service types: supplies, trash
Sound: moderate zone, noise generator
Control: none
Floors: resilient, stain resistant, non-slip
Walls: washable, vinyl covered
Ceilings: acoustical, moisture resistant, minimum height 8'0"
Base: 2" sanitary
Door: no light, kickplate
Mechanical: air condition, temperature 70°, separate thermostat
Communications: telephone
Plumbing: hot water, cold water, water closet, urinal, lavatory, drinking fountain
Electrical: 110v, wall outlet
Lighting: fluorescent, footcandles 55, natural lighting

2.4.7.3 Equipment:
table, chair, lockers, clock, bulletin board, water closet, sink, vending machines, soap dispenser, paper towel dispenser
2.4.8 Mechanical:

2.4.8.1 Staffing requirements:
none

2.4.8.2 Room requirements:
Access: on secondary access
Service methods: people
Service types: equipment
Sound: noise generation
Control: security
Floors: concrete
Walls: washable
Ceilings: exposed
Base: none
Doors: no light, lockset
Mechanical: special venting, air conditioning, separate thermostat

Electrical: 110v, wall outlet, other as needed

Lighting: fluorescent, footcandles 25

2.4.8.3 Equipments:
2.4.9 Waiting:

2.4.9.1 Staffing requirements:
none

2.4.9.2 Room requirements:
   Access: on main circulation
   Service methods: wheelchair, people
   Service types: trash
   Sound: moderate zone, noise generator
   Control: visual from nurses station
   Floors: carpet
   Walls: washable, vinyl covered
   Ceilings: acoustical, minimum height 8'0"
   Base: 2" sanitary
   Doors: none
   Windows: tinted glass
   Mechanical: air condition, temperature 70°, separate thermostat
   Plumbing: drinking fountain
   Electrical: 110v, wall outlets
   Lighting: natural lighting, fluorescent, footcandles 35

2.4.9.3 Equipments:
   modular seating, drinking fountains, clock, cube tables
2.4.10 Dressing rooms:

2.4.10.1 Staffing requirements:
none

2.4.10.2 Room requirements:
Access: on secondary circulation
Service methods: wheelchair, people
Service types: clothes
Sound: in quiet zone
Control: security when clothes are left in room
Floors: carpet
Walls: washable, vinyl covered
Ceilings: acoustical, minimum height 7'6"
Base: 2" sanitary
Doors: no light, oversize
Mechanical: air condition, temperature 70°
Lighting: fluorescent, footcandles 35

2.4.10.3 Equipments:
built-in seat, clothes locker, clothes hook, mirror w/ shelf
2.4.11 Toilets:

2.4.11.1 Staffing requirements:
none

2.4.11.2 Room requirements:
Access: on secondary circulation
Service methods: wheelchair, people
Service types: trash, specimens
Sound: in moderate zone, noise generation
Control: visual, security
Floors: resilient
Ceilings: acoustical, minimum height 8'0"
Base: 2" sanitary
Doors: no light, lockset
Mechanical: air condition, temperature 70°
Plumbing: cold water, hot water, sink, urinal, water closet
Electrical: 110v, wall outlet
Lighting: fluorescent, footcandles 55

2.4.11.3 Equipments:
water closet, urinal, mirror, sink, soap dispenser, paper towel dispenser, kotex-tampons vending machine
2.4.12 Corridors:

2.4.12.1 Staffing requirements:
none

2.4.12.2 Room requirements:
Access: main access corridor, secondary access corridor

Service methods: cart, wheelchair, people

Service types: mail, supplies, trash, records, specimens

Sound: moderate zone, noise generator

Control: visual

Floors: carpeting

Walls: washable, vinyl covered

Ceilings: acoustical, minimum height 8'0"

Base: 2" sanitary

Mechanical: air condition, temperature 70°, separate thermostat

Electrical: 110v, wall outlets

Lighting: fluorescent, exit lights, footcandles 35, color corrected

2.4.12.3 Equipments:
fire extinguisher, clocks, water fountain
2.4.13 Stairs:

2.4.13.1 Staffing requirements:
none

2.4.13.2 Room requirements:
Access: near public entrance, main circulation, secondary circulation, outside exit

Service methods: people

Service types: mail, supplies, trash, records, specimens

Sound: moderate zone

Control: security

Floors: concrete

Walls: washable

Ceilings: acoustical

Base: none

Doors: no light, oversize, label, lockset from exterior

Mechanical: temperature 70°

Electrical: 110v

Lighting: fluorescent, footcandles 25

2.4.13.3 Equipments:
none
5.0 DESIGN METHODOLOGY

5.1 Definitions

The following definitions shall apply to the design flow pattern of an architectural problem as provided for under an architect's comprehensive services program.

5.1.1 Programming
Programming is a process of defining the problem in terms of the client's requirements, needs, and desires.

5.1.2 Schematic design
Schematic design is a process of assisting the client in understanding the program, illustrating possible solutions, and assisting in determining the feasibility of a project.

5.1.3 Design development
Design development is a process of refinement following approval of schematic design, which serves in preparation of a job for construction document production.
5.2 Conventional Design methodology

Outline procedure and information required

Orientation w/ client through conferences or meeting

Program phase schedule, scope, method, and participants

Study informational sources and begin research pattern

Gather necessary data and statistics

PROGRAMMING PHASE
(PROGRAMMING PHASE CONTINUED)
<table>
<thead>
<tr>
<th>CONSULTANT</th>
<th>ARCHITECT</th>
<th>ACTIVITY</th>
<th>CLIENT</th>
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</thead>
<tbody>
<tr>
<td>(PROGRAMMING PHASE CONTINUED)</td>
<td></td>
<td>Investigate and document building codes and regulations for building type and site</td>
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<tr>
<td>Program finishes including subsequent work</td>
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<td></td>
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<tr>
<td>Final approval of formal approval of program by owner and/or client</td>
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</tr>
<tr>
<td>CLIENT</td>
<td>ACTIVITY</td>
<td>Schematic design, w/ project design, descriptions and concepts</td>
<td>Estimation based on area or volume</td>
</tr>
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<td>---------------------------------------------------------------</td>
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</tr>
<tr>
<td></td>
<td>Conference or meeting w/ client (owner)</td>
<td>Schematics w/ selection of major engineering systems and building materials</td>
<td>Preliminary cost estimate</td>
</tr>
<tr>
<td></td>
<td>ARCHITECT</td>
<td>STRUCTURAL, MECHANICAL, AND ELECTRICAL</td>
<td></td>
</tr>
</tbody>
</table>

**SCHEMATIC DESIGN**
CLIENT
Final approval of schematic design package

ACTIVITY
Conference or meeting w/ client (owner)

ARCHITECT

CONSULTANT

(SCHEMATIC DESIGN CONTINUED)
Refinement of the projects' requirements

Conference or meeting w/. client (owner)
- Develop and coordinate architectural form, structural system, and mechanical electrical systems
- Verify major building materials and methods

Systems coordination for total project

Development of systems

DESIGN DEVELOPMENT
CLIENT

ACTIVITY

| Prepare design development documents | Preparation of cost analysis based on semi detailed drawings | Preparation of equipment schedule |

ARCHITECT

| Plans, Elevation, sections, engineering systems |

CONSULTANT

| Cost analysis by Consultants | Special equipment consultants |

(DESIGN DEVELOPMENT CONTINUED)
Presentation of design development package

Conference or meeting with client (owner)

(DESIGN DEVELOPMENT CONTINUED)
6.0 PROTOTYPICAL APPLICATION

6.1 Definition

Prototypical application shall involve groupings of individual spaces (i.e. administrative, medical, or clinical, rehabilitative, and supportive), individual spaces (i.e. examination, treatment, office, conference, laboratory, central services, central stores, surgery, radiology, physical therapy, etc.), and individual component and module design.

6.2 Considerations

Major emphasis concerning development of prototypical units should center around the following: existing health care patterns, siting, utilities, codes, regulations, restrictions, zoning, community needs, technology, industrial methods, construction procedures, accessibility, transportation methods, adaptability, flexibility, growth, erection, economy, operation, administration, maintenance, and obsolescence.

6.3 Applications

The intended purpose of prototypical development is to provide a medium through which primary health care can be administered effectively. Flexibility and inability to foresee or predict, accurately, necessary future changes necessitate consideration for further usage of a modular, prototypical system. By adopting this hypothesis we might better deal with future methods of health care and health care technologies.

Possible consideration of the prototype concept might include: modernization of existing facilities, additions to existing facilities, combinations of modernization and addition, new facilities designed to meet specific area wide health care needs (these could vary in size and scope of services), mobile health care units, emergency health care units, multiphasic testing centers, or any combination of these possibilities.
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8.0 THESIS EVALUATION:

Each and every thesis project is in itself unique. Due to the nature of those projects, program requirements, and individual creativity the results vary enormously in terms of development.

Due to this individual nature of each of these projects, it might seem plausible to see different solutions at various stages of development in the same quarter. Quite possibly each student w/ the approval of his thesis critics could establish at the beginning of each quarter his goals and objectives for that period of development. This system could allow individual strong points and weaknesses to be more fully investigated. This system would operate in lieu of "blanket requirements" for each student as presently exists in the thesis program.

My own thesis experience has led me to believe the present program is inadequate especially in terms of my particular type of project. Quite possibly a more rational schedule for this year might have included for fall quarter: extensive program development, additional functional relationships, and flow chart studies, Winter quarter might have included; design development, refinement of bubble diagrams to structural, mechanical, materials, spatial relationships, and equipment layouts. Spring quarter might best be used for design refinements in terms of areas which might have needed further study in view of their specific needs and requirements.