



HOSPITAL Construction Survey

Directions: Please answer the following questions by filling in the box corresponding to your answer. In some cases, space is available for additional information. Please direct questions to Suzanna Hoppszallern, senior editor, data and research, at 312-893-6853 or shoppszallern@healthforum.com. All survey responses are anonymous and confidential, with results reported only in aggregate form. No personal information you submit will be used for marketing or sales purposes. Thank you for your participation.

| ınst | itution/organization: | | | |
|------|--|---|----------------------------|---|
| Add | ress: | | | |
| City | : | | State: | Zip: |
| Fac | ility contact: | | Title: | |
| Pho | ne: Fax: | Email: | | |
| 1. | currently employed in a man O Hospital – general medica O Hospital – specialized (ch O Academic medical center | agement capacity? (Call and surgical iddren's, heart, etc.) em (management rese TO QUESTION 10. Alth care facility urgicenter | heck one.) | ribes the setting where you are facilities, e.g., regional manager or |
| 2. | Please indicate the number of 1–24 |) 50–99 O 10 | 0–199 🔾 200–299 | ne.) |
| 3. | Please indicate the square for Less than 100,00 sq. ft. 100,001–500,000 sq. ft. 500,001–1,000,000 sq. 1,000,001–3,000,000 sq. 3,000,001–5,000,000 sq. More than 5,000,000 sq. Does not apply | ft. . ft. . ft. | zation/facility. (Check on | e.) |
| 4. | Which best describes the loc O Urban O Suburbar | • | (Check one.) | |
| 5. | Select the state in which you | work (| Drop down menu) | |

Building Projects

| 6. | Please indicate which type of facility projects currently are under construction or being planned for construction |
|----|--|
| | within the next three years. (Check one box per facility.) Please indicate whether they are new, replacement or |
| | expansion/renovation projects. (Check one box per applicable facility.) |

| | Currently under | Planned within the | | | Expansion/ |
|--|--------------------|--------------------|-----|-------------|------------|
| Hospitals | construction | next 3 years | New | Replacement | Renovation |
| a. Hospital — acute care | O | 0 | 0 | O | 0 |
| b. Hospital — specialty | O | O | 0 | O | 0 |
| c. Hospital – critical access | O | 0 | 0 | 0 | 0 |
| Other building projects | | | | | |
| d. Assisted-living facility | O | 0 | 0 | O | 0 |
| e. Long-term care facility | O | 0 | 0 | O | 0 |
| f. Medical office building | O | 0 | 0 | O | 0 |
| g. Ambulatory facility | O | 0 | 0 | O | 0 |
| h. Parking structure | O | 0 | 0 | O | 0 |
| i. Physical plant infrastructure upgrade | O | 0 | 0 | 0 | 0 |
| j. Central energy plant | O | 0 | 0 | 0 | 0 |
| k. Data center (information services) | O | 0 | 0 | 0 | 0 |
| I. Other (specify): | O | 0 | | 0 | O |

7. If your organization is adding or modernizing specific services/departments, please indicate which services currently are under construction or being planned for construction within the next three years. (Check one box per applicable service.) Please indicate whether they are new, replacement or expansion/renovation projects. (Check one box per applicable service.)

| | Currently | Planned | | | Fymanaian / |
|---------------------------------------|-----------------------|----------------------------|-----|-------------|--------------------------|
| Services/Departments | under construction | within the next 3 years | New | Replacement | Expansion/ Renovation |
| a. Ambulatory care | 0 | Ó | 0 | 0 | 0 |
| b. Bariatric care/surgery centers | O | 0 | 0 | 0 | 0 |
| c. Behavioral health services | | 0 | 0 | 0 | 0 |
| d. Cancer center | O | 0 | 0 | O | 0 |
| e. Cardiology | O | 0 | 0 | О | 0 |
| f. Clinical observation units | O | 0 | 0 | O | 0 |
| g. Critical care | O | 0 | 0 | O | 0 |
| h. Emergency department | O | 0 | 0 | O | 0 |
| i. Imaging | O | 0 | 0 | 0 | 0 |
| j. Interventional suites (surgery and | | | | | |
| imaging) | O | O | 0 | O | 0 |
| k. Isolation/clean rooms | O | O | 0 | O | 0 |
| I. Laboratory | O | O | 0 | O | 0 |
| m. Neurology/neuroscience | O | O | 0 | O | 0 |
| n. Orthopedics | O | О | 0 | О | 0 |
| o. Pediatrics | O | О | 0 | О | 0 |
| p. Rehabilitation services | O | О | 0 | О | 0 |
| q. Sleep disorders center | | О | 0 | О | 0 |
| r. Surgery | O | О | 0 | О | 0 |
| s. Urgent care center | O | О | 0 | О | 0 |
| t. Wellness center | _ | О | 0 | О | 0 |
| u. Women's health/obstetrics | О | О | 0 | О | 0 |
| v. Wound care center | _ | О | | О | 0 |
| w. Other (specify): | O | 0 | O | О | 0 |

Main Hospital Inpatient Building Services Equipment

8. Please indicate which major building services equipment in your main hospital inpatient building currently is being replaced or upgraded. (Check one box per project.)

| | Currently | Replaced/upgraded | Plan to replace/ | |
|-----------------------------------|---------------------|-------------------|-------------------|--|
| | replacing/upgrading | in the last | upgrade in the | |
| Major building services equipment | (next 12 months) | 13-24 months | next 13-24 months | |
| Air handlers/ventilation | O | O | О | |

| Boilers | O | 0 | \circ |
|--|---|---|---------|
| Chillers (primary) | O | O | \circ |
| Electrical switchgear/transformers | O | O | \circ |
| Elevators | O | O | \circ |
| Exhaust fans | O | O | \circ |
| Generators | O | O | \circ |
| Medical gas system | O | O | \circ |
| Medical vacuum system | O | O | \circ |
| Packaged HVAC | O | O | \circ |
| Plumbing fixtures and piping | O | O | \circ |
| Room pressure sensors | O | 0 | \circ |
| Split systems (DX unit) | O | O | \circ |
| Other (specify): | 0 | O | \circ |
| | | | |
| n Haanital Innations Building Comics Customs | | | |

Main Hospital Inpatient Building Service Systems

9. Please indicate which **bulding services systems** in your **main hospital inpatient building** currently are being replaced or upgraded. (Check one box per project.)

| | Currently replacing/upgrading | Replaced/upgraded in the last | Plan to replace/ upgrade in the |
|--------------------------------------|-------------------------------|-------------------------------|------------------------------------|
| Building services systems | (next 12 months) | 13-24 months | next 13-24 months |
| Building controls/automation system | O | 0 | O |
| Data infrastructure (wired, cable) | O | 0 | O |
| Data infrastructure (wireless) | O | 0 | O |
| Electronic health record | O | 0 | O |
| Fire alarm/protection system | O | 0 | O |
| Patient entertainment system | O | 0 | O |
| Patient monitoring/nurse call system | O | 0 | O |
| Picture archiving and communication | | | |
| system (PACS) | O | 0 | О |
| Pneumatic tube system | O | • | О |
| Security system | O | • | О |
| Telecommunications | O | О | О |
| Other (specify): | O | О | О |

GO TO QUESTION 11

Regional or National Health Care Systems Building Projects (Please answer the questions only if you have national or regional system-level management responsibilities.)

10. Please indicate the number of projects currently under construction or planned in the next three years.

Indicate number of facilities

| Hospitals | New | Replacement | Expansion/ Renovation |
|--|-----|-------------|--------------------------|
| a. Hospital — acute care | · | | |
| b. Hospital — specialty | | | |
| c. Hospital – critical access | | | |
| Other building projects | | | |
| d. Assisted-living facility | · | | |
| e. Long-term care facility | · | | |
| f. Medical office building | · | | |
| g. Ambulatory facility | | | |
| h. Parking structure | · | | |
| i. Physical plant infrastructure upgrade | | | |
| j. Central energy plant | · | | |
| k. Data center (information services) | | | |
| I. Other (specify): | | | |

Specialty Hospital Contstruction (Please answer the questions based on your management responsibility,

| resp | oond for the corresponding entity.) |
|------|--|
| 11. | If you checked specialty hospital construction in Question 6 or 10, please indicate which type. (Check all that apply.) O Behavioral health center/Psychiatric hospital O Heart hospital O Orthopedic hospital O Other (specify): |
| nati | tainable Construction (Please answer the questions based on your management responsibility, i.e., onal or regional system managers respond on a system level, and managers of facilities or campuses ond for the corresponding entity.) |
| 12. | Is your hospital/health system specifying any green/environmentally friendly construction materials in any current construction and renovation projects? (Check one.) O No O All construction projects O Some construction projects O Don't know If you responded "no," please explain why: |
| 13. | What features are being, or will be, incorporated into facilities design that are environmentally friendly and sustainable? (Check all that apply.) Chemical waste reclamation High-efficiency building controls High-efficiency HVAC Increase access to day lighting Low-flow water fixtures Low-emission glass for windows Sustainable wall covering, paint and finishes with low volatile organic compounds (VOC) Other (specify): |
| 14. | What sustainable construction practices is your hospital/health system employing in its building projects? (Check all that apply.) Add language to contract specifications that constructors will follow LEED requirements Maintain and restore site biodiversity Minimize site development footprint Optimize layout and orientation of building to optimize energy pereformance Reuse/recycle demolition materials Segregate construction and demolition waste Specify cogeneration, fuel cells, renewable energy systems and other alternative energy sources as feasible Use of physical and mechanical design and building materials to improve indoor air quality Other (specify): |
| nati | ility Planning and Budget (Please answer the questions based on your management responsibility, i.e., onal or regional system managers respond on a system level, and managers of facilities or campuses ond for the corresponding entity.) |
| 15. | When was your master facility plan last updated? (Check one.) O Within the last six months O More than six months ago, but within the last 12 months O More than one year ago, but within the last two years O More than two years ago O Do not have one |
| 16. | How are most of your facility infrastructure projects budgeted and implemented? (Check one.) On a planned replacement schedule as part of a Facility Master Plan On a planned replacement schedule, but not as part of a Facility Master Plan As needed due to aging, equipment malfunctions, regulatory compliance and as budget allows Other (specify): |

17. Do you commission your health facilities projects (audit to review performance of building energy systems)?

i.e., national or regional system managers respond on a system level, and managers of facilities or campuses

| | If yes,a. What percentage of ab. Do you hire an independent | | | | |
|-----|---|--|--|---|--|
| 18. | Is Building Information Mode | eling (BIM) used in: (Ch | eck one per line.) | | |
| | a. Hospital capi | • , | Yes O No | | |
| | b. Project mana | . • | Yes O No | | |
| | c. Facilities ope | | Yes O No | | |
| 19. | Please indicate the percent | | - | n projects that con | respond to the |
| | following descriptions. Perce | entages <i>must</i> total 100 | 0%. | Perc | entage |
| | On or under budget/on or a On or under budget/behind Over budget/on or ahead of Over budget/behind schedu Total | schedule | | | |
| 20. | Approximately what percents construction projects? (Full | fiscal year) | | | |
| | FY ending in: | New construction | Facility reno | ovation F | acility infrastructure |
| | 2013 (actual) | % | | % | % |
| | | | | | 0/ |
| | 2014 (budgeted) | % | | % | % |
| 21. | 2014 (budgeted) How will the percentage of change from 2013? (Check | the hospital/health sys one in each column.) Hospital new | Hospital | budget allocated Hospital | to building projects Off-site |
| 21. | How will the percentage of change from 2013? (Check | the hospital/health sys one in each column.) Hospital new construction | Hospital renovation | budget allocated hospital infrastructure upgrades | to building projects Off-site facilities |
| 21. | How will the percentage of change from 2013? (Check | the hospital/health sysone in each column.) Hospital new construction | Hospital renovation | Hospital infrastructure upgrades | off-site facilities |
| 21. | How will the percentage of change from 2013? (Check No change | the hospital/health sysone in each column.) Hospital new construction | Hospital renovation | Hospital infrastructure upgrades | Off-site facilities |
| 21. | How will the percentage of change from 2013? (Check No change | the hospital/health sys one in each column.) Hospital new construction | Hospital renovation | Hospital infrastructure upgrades O | Off-site facilities |
| 21. | How will the percentage of change from 2013? (Check No change | the hospital/health sys one in each column.) Hospital new construction | Hospital renovation O O O | Hospital infrastructure upgrades O O | Off-site facilities O O |
| 21. | How will the percentage of change from 2013? (Check No change | the hospital/health sys one in each column.) Hospital new construction | Hospital renovation O O O | Hospital infrastructure upgrades O O O | Off-site facilities O O O |
| 21. | No change | the hospital/health sysone in each column.) Hospital new construction | Hospital renovation O O O O O O | Hospital infrastructure upgrades O O O O O O O O O O O O O O O O O O | Off-site facilities O O O |
| 21. | No change | the hospital/health sys one in each column.) Hospital new construction | Hospital renovation O O O O O O O O O O O O | Hospital infrastructure upgrades O O O O O O O O O O O O O O O O O O | Off-site facilities O O O O O O O O O O O O O O O O O O |
| 21. | No change | the hospital/health sys one in each column.) Hospital new construction | Hospital renovation O O O O O O | Hospital infrastructure upgrades O O O O O O O O O O O O O O O O O O | Off-site facilities O O O |

Health Care Reform Impact on Construction (Please answer the questions based on your management responsibility, i.e., national or regional system managers respond on a system level, and managers of facilities or campuses respond for the corresponding entity.)

23. Please indicate *your* assessment of the impact of reduced reimbursement rates and new payment

arrangements on your hospital's construction plans. (Check one response in each row.)

Definitely Will proceed Less

| | will proceed with plans | with modifications | Re-evaluating plans | likely to proceed | will not proceed |
|---|----------------------------|-----------------------|---------------------|----------------------|---------------------|
| New hospital construction | O | 0 | 0 | 0 | 0 |
| Hospital renovation and expansion | O | 0 | 0 | 0 | 0 |
| Hospital renovation without expansion . | O | 0 | 0 | 0 | 0 |
| Hospital infrastructure upgrades | | 0 | 0 | 0 | 0 |
| Off-site facilities | | 0 | 0 | 0 | 0 |
| Other (specify): | O | 0 | 0 | 0 | 0 |
| As your organization continues to strate new payment arrangements, have there existing facilities or campus design to n | been discus | sions with sen | ior leadership a | bout how to | utilize or modify |

| O Yes O No |
|--|
| If yes, please describe the activities that have taken place: |
| |
| |
| |
| What future facility development plans/construction projects are being considered in response to reduced reimbursement rates and new payment arrangements? (Check all that apply.) O Ambulatory surgery centers |
| O Emergency department, adding observation units |
| O Freestanding emergency department |
| |

| O | Medical office building expansion |
|---|---|
| O | Retail clinics |
| O | New medical office building construction |
| O | Outpatient facilities in neighborhood settings |
| O | Primary care clinics in neighborhoods |
| O | Residential facilities for long-term care and/or transitional patients |
| O | Satellite facilities to cater to specialties |
| O | Satellite facilities to cater to an aging population that wants access to routine health care close to home |

O Urgent care centers in neighborhood settings
O Other (specify): _____

May we contact you by phone to interview you for stories in *Health Facilities Management* on the results of this survey?

O Yes O No

Thank you for your participation!

Please submit survey by Nov. 8, 2013.

All survey responses are anonymous and confidential, with results reported only in aggregate form.

Health Facilities Management thanks the sponsors of this survey, Grainger and Sherwin-Williams for underwriting this research.



24.

25.



Definitely