Mendocino Coast **District Hospital**

SPC/NPC Overview Presentation | 05.05.2023

Devenney GROUP

Agenda Adventist Mendocino Coast

1.Review Definition of SPC & NPC2.Review SPC Upgrades On Campus3.Review NPC Upgrades On Campus4.Review New Hospital Construction5.Review Pricing



SPC & NPC Updates

Adventist Mendocino Coast

GENERAL

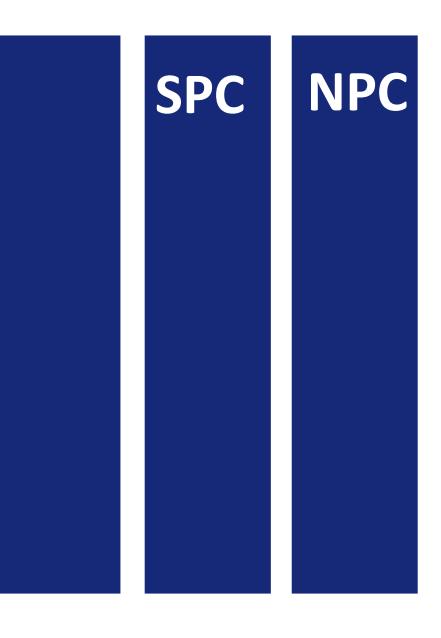
BUILDINGS ON CAMPUS RANKED BETWEEN 2-4 FOR SPC & NPC BY HCAI (CALIFORNIA DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION)

BUILDINGS REQUIREMENTS TO BE MET BY **JAN. 1, 2030**:

SPC < 2 UPGRADED TO SPC 4D

NPC < 2 UPGRADED TO NPC 4D

SPC/NPC OVERVIEW | 05.05.2023





SPC & NPC Updates

Adventist Mendocino Coast

GENERAL

BUILDINGS ON CAMPUS RANKED BETWEEN 2-4 FOR SPC & NPC BY HCAI (CALIFORNIA DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION)

BUILDINGS REQUIREMENTS TO BE MET BY **JAN. 1, 2030**:

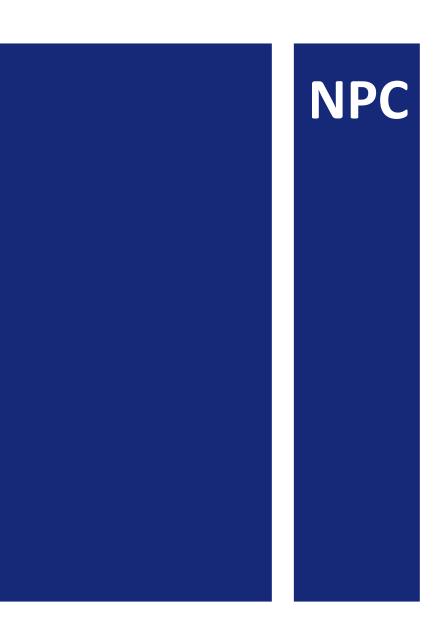
SPC < 2 UPGRADED TO SPC 4D

NPC < 2 UPGRADED TO NPC 4D

SPC

STRUCTURAL PERFORMANCE CATEGORY

REQUIREMENTS INCLUDE: UPGRADING STRUCTURAL ELEMENTS INCLUDING FOUNDATION, COLUMNS, ETC





SPC & NPC Updates

Adventist Mendocino Coast

GENERAL

BUILDINGS ON CAMPUS RANKED BETWEEN 2-4 FOR SPC & NPC BY HCAI (CALIFORNIA DEPARTMENT OF HEALTHCARE ACCESS AND **INFORMATION**)

BUILDINGS REQUIREMENTS TO BE MET BY JAN. 1, 2030:

SPC < 2 UPGRADED TO SPC 4D

NPC < 2 UPGRADED TO NPC 4D

SPC

STRUCTURAL PERFORMANCE CATEGORY

REQUIREMENTS INCLUDE: UPGRADING STRUCTURAL ELEMENTS INCLUDING FOUNDATION, COLUMNS, ETC

NPC

REQUIREMENTS INCLUDE: INFRASTRUCTURE BRACING AND EQUIPMENT ANCHORAGE ALONG WITH UPGRADING WATER & FUEL **STORAGE TANKS ON CAMPUS**

NON-STRUCTURAL PERFORMANCE CATEGORY



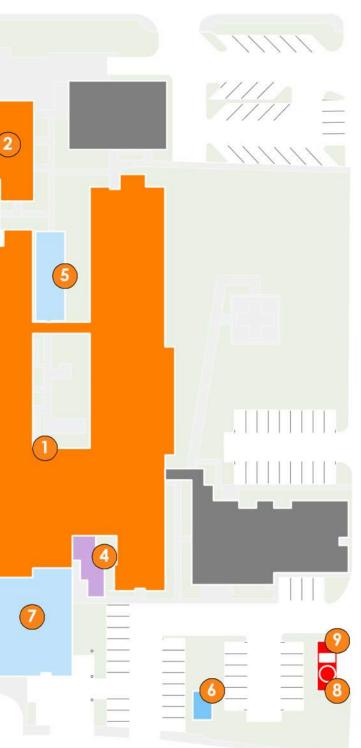
Overview | SPC/NPC Site Plan

Adventist Mendocino Coast



SPC/NPC BUILDING LEGEND

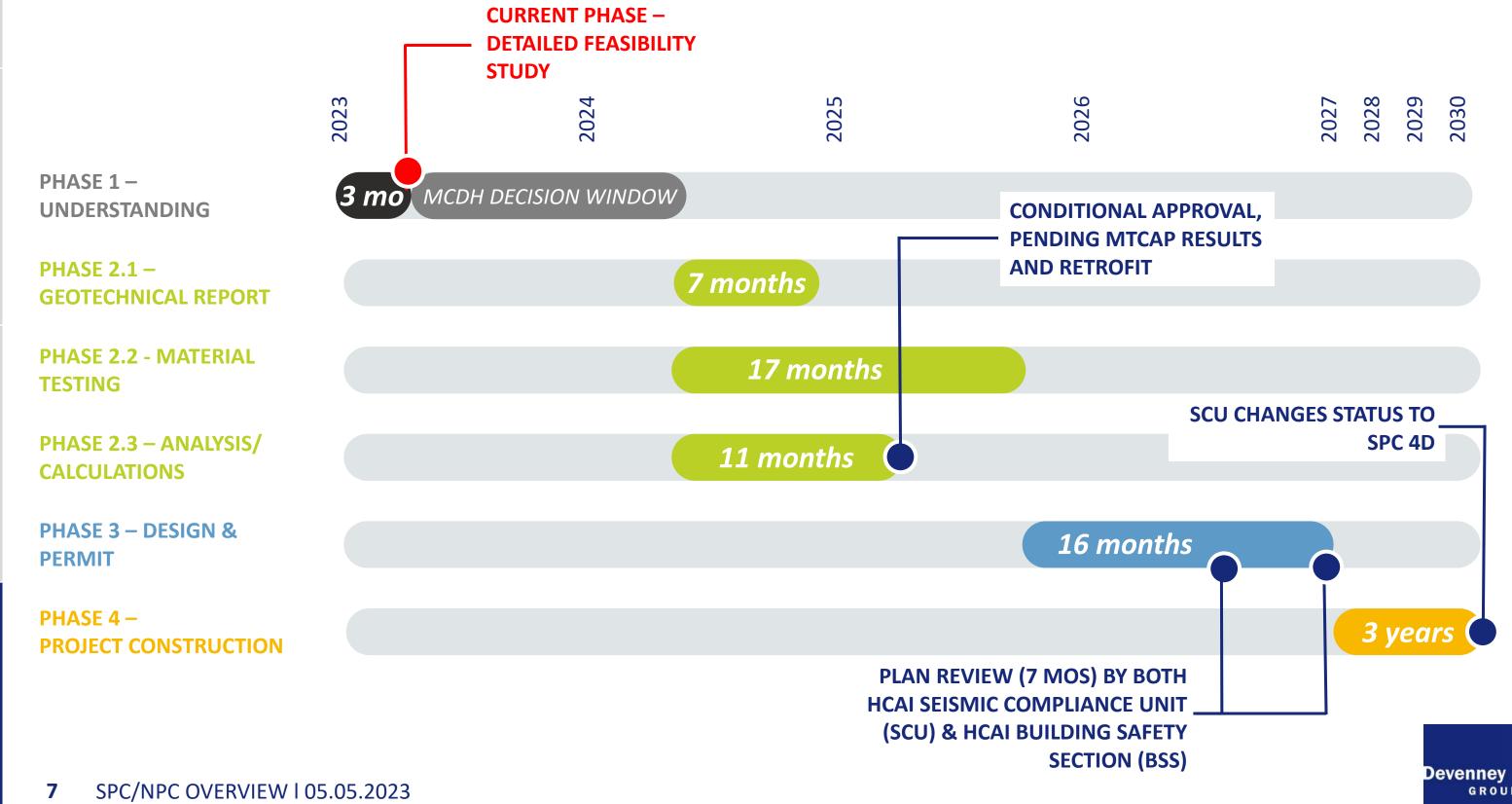
BLDG #	Name	Year Built	SPC	NPC		
🕕 BLD 00469	MAIN HOSPITAL	1969	2	2		
BLD 00470	CENTRAL PLANT	1969	2	2		
6 BLD 00471	EMERGENCY ADDITION WEST	1995	4	2		
4 BLD 00472	X-RAY FILE STORAGE	2003	5	4		0
🌖 BLD 02787	RESPIRATORY NEUROPHYSIOLOGY LAB	1982	4	2		6
ዕ BLD 02788	EMERGENCY GENERATOR SHELTER	1995	4	3		
🧭 BLD 03473	EMERGENCY ADDITION EAST	1995	4	2		
6 BLD 06731	BULK MEDICAL GAS YARD	1992	N/A	2		- 1
🕑 BLD 06732	MEDICAL AIR SYSTEM SHED		5s	4s		
SPC 2 SPC 4 SPC 4 SPC 4 SPC 5 SPC N/A NON-HC/	NPC 2 NPC 2 NPC 3 NPC 4/s NPC 4s AI FACILITY BUILDINGS					
						1
			ľ			
					3	



Devenney GROUP

Seismic Upgrade Process

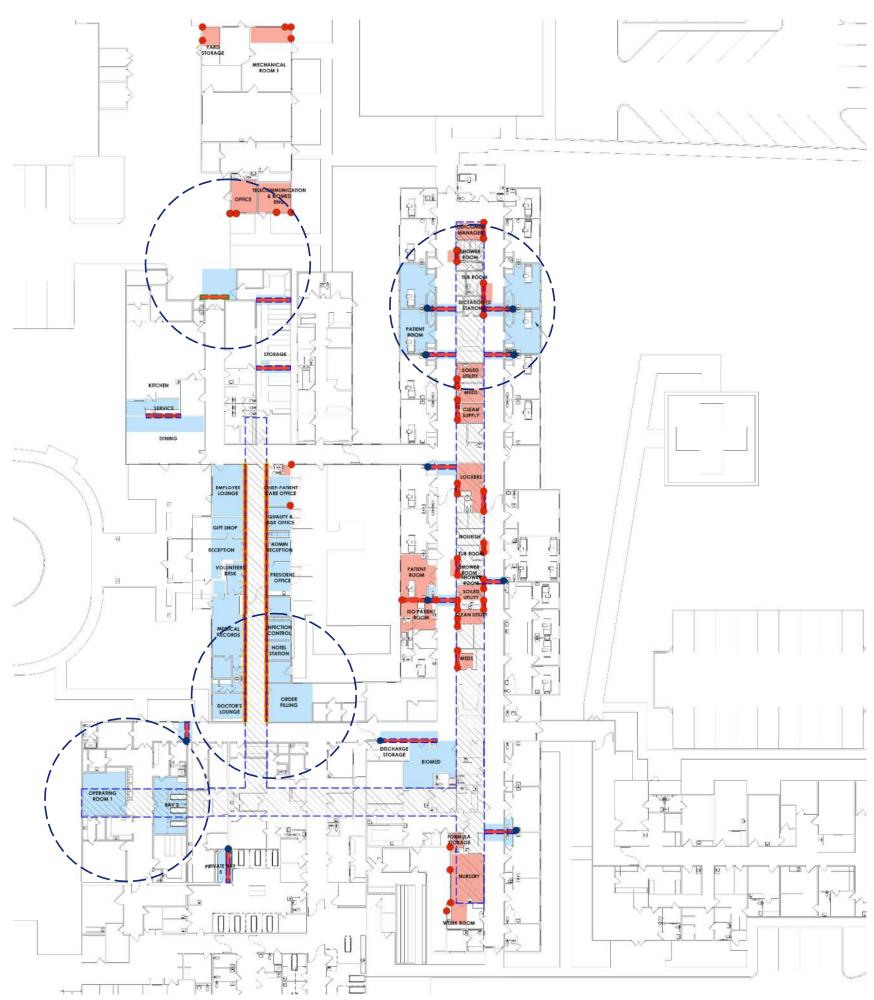
Adventist Mendocino Coast



SPC | Upgrades

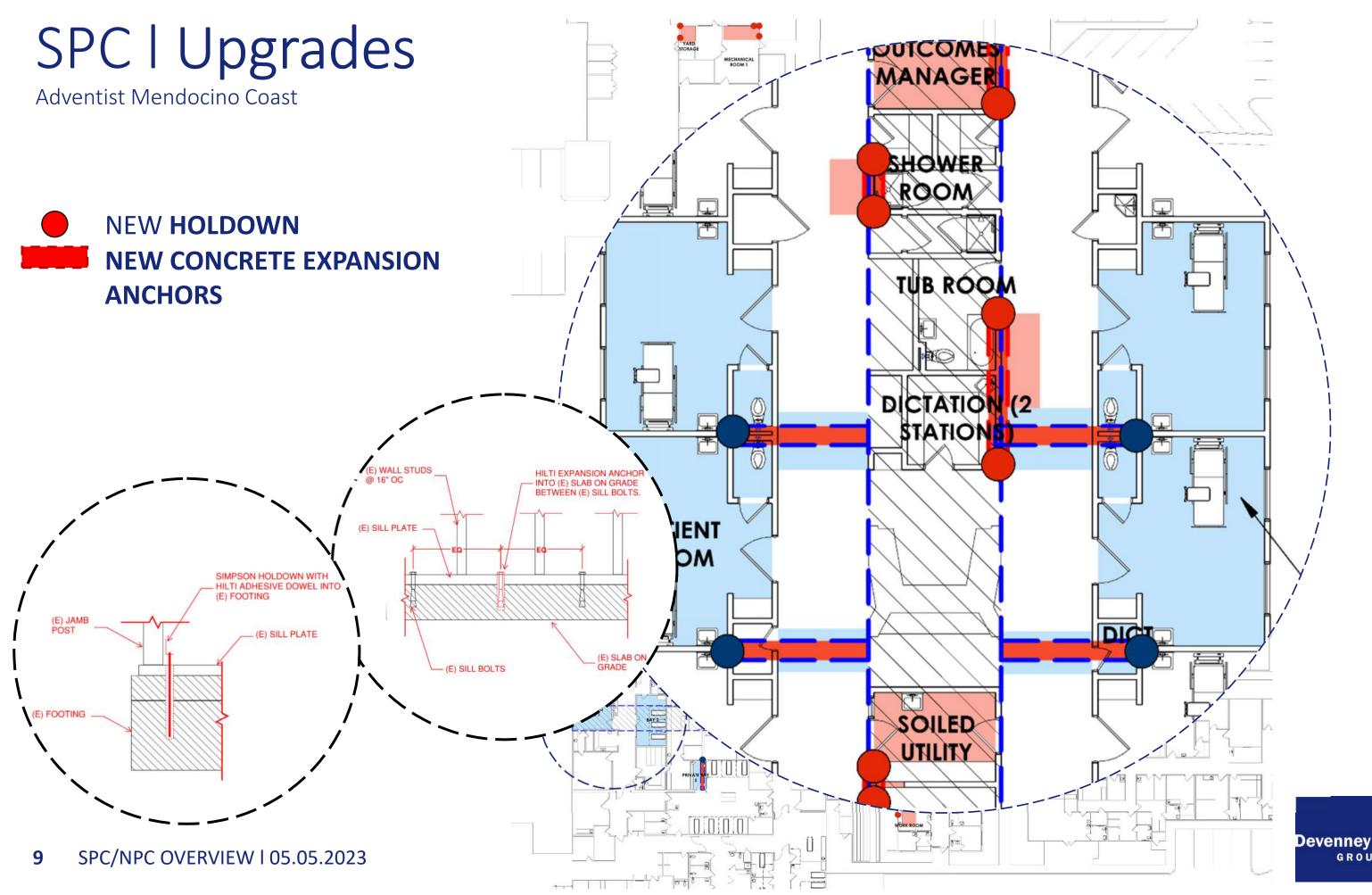
Adventist Mendocino Coast

NEW HOLDOWN NEW CONCRETE EXPANSION ANCHORS ROOF COLLECTOR STRENGTHENING NEW STRAP AND 4' SCAB ALONG SIDE OF ROOF JOIST NEW PLYWOOD SHEATHING @ CEILING NEW CABLE SPACING IN ATTIC ABOVE NEW SEISMIC GAP BETWEEN BUILDING





Devenney GROU



SPC

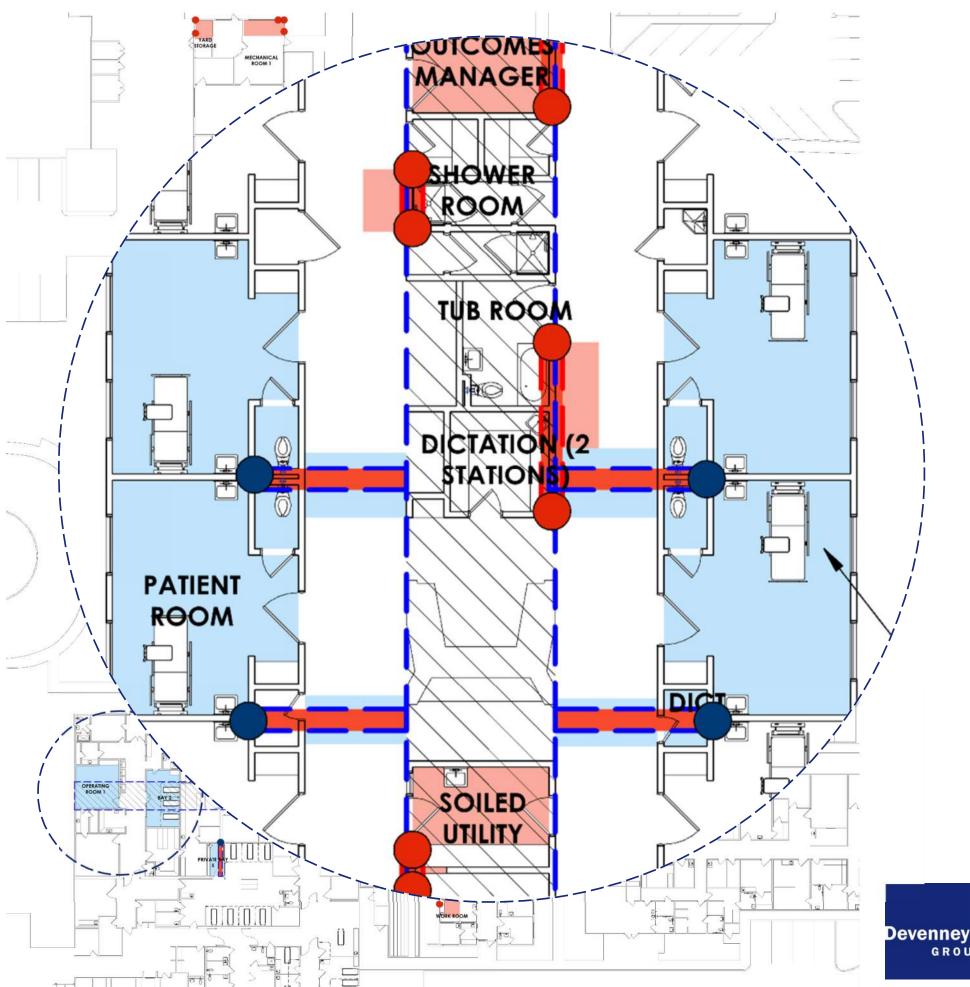
GROUI

SPC | Impacts

Adventist Mendocino Coast

NEW HOLDOWN NEW CONCRETE EXPANSION ANCHORS

- CONSTRUCTION WILL HAPPEN WITHIN MOST SUPPORT **ROOMS LIMITING IMPACT TO OPERATIONS**
- AT TUB ROOMS OR SHOWER **ROOM THE CONSTRUCTION** WILL HAPPEN IN CORRIDOR TO NOT REQUIRE ACCESSIBILITY **UPGRADES TO ROOM**
- AT CORRIDOR CONSTRUCTION **TEMPORARY INFECTION** CONTROL BARRIERS WILL BE NEEDED AND MAY IMPACT **OPERATIONS THROUGH CORRIDOR**

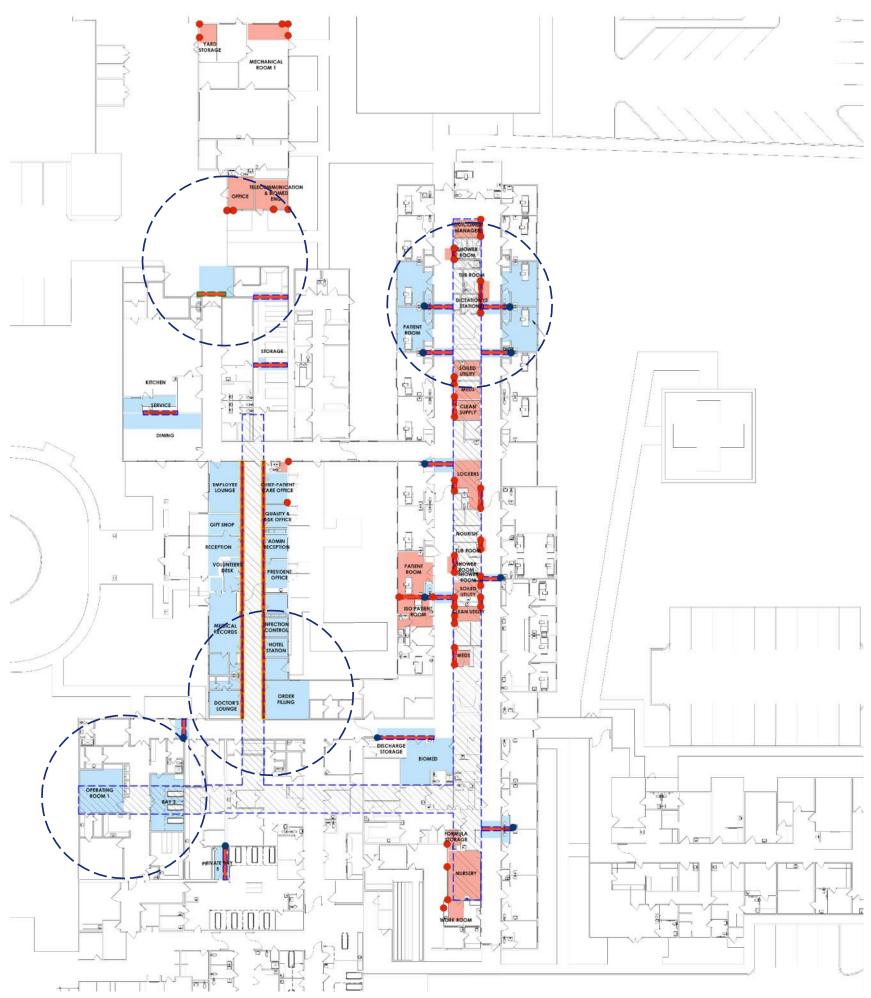


GROU

SPC | Upgrades

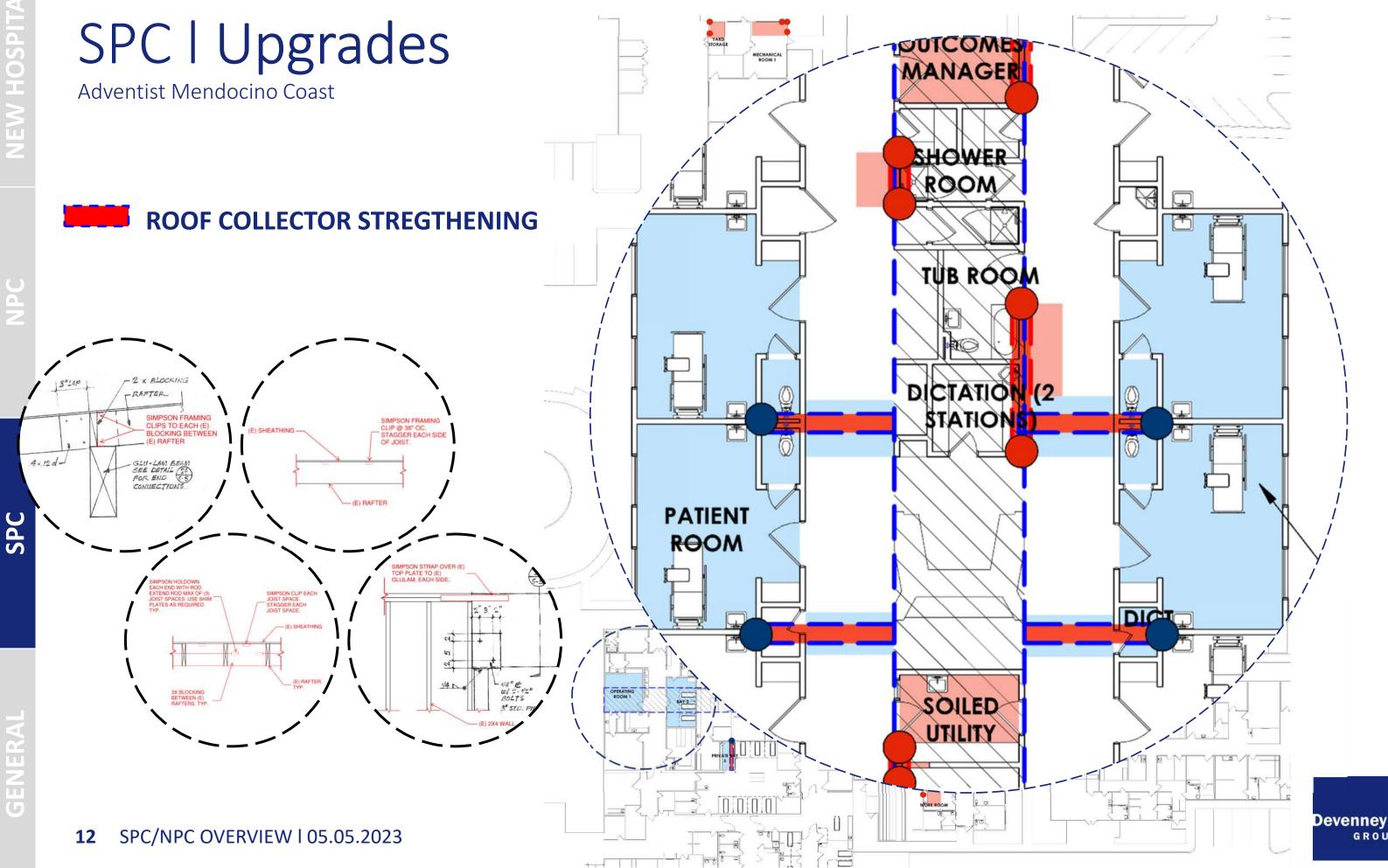
Adventist Mendocino Coast

NEW HOLDOWN NEW CONCRETE EXPANSION ANCHORS ROOF COLLECTOR STRENGTHENING NEW STRAP AND 4' SCAB ALONG SIDE OF ROOF JOIST NEW PLYWOOD SHEATHING @ CEILING NEW CABLE SPACING IN ATTIC ABOVE NEW SEISMIC GAP BETWEEN BUILDING



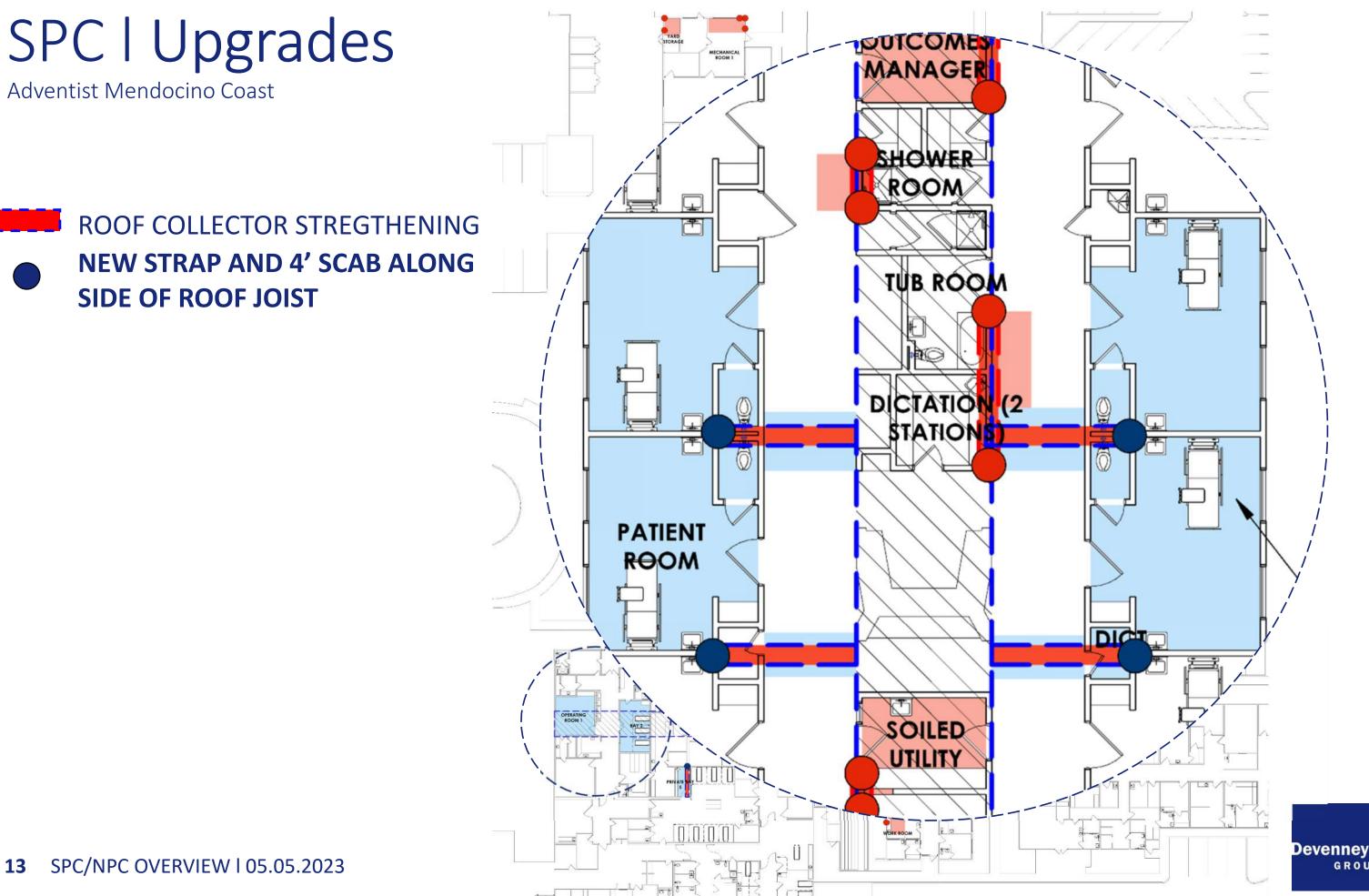


Devenney GROU



GROUI

SPC



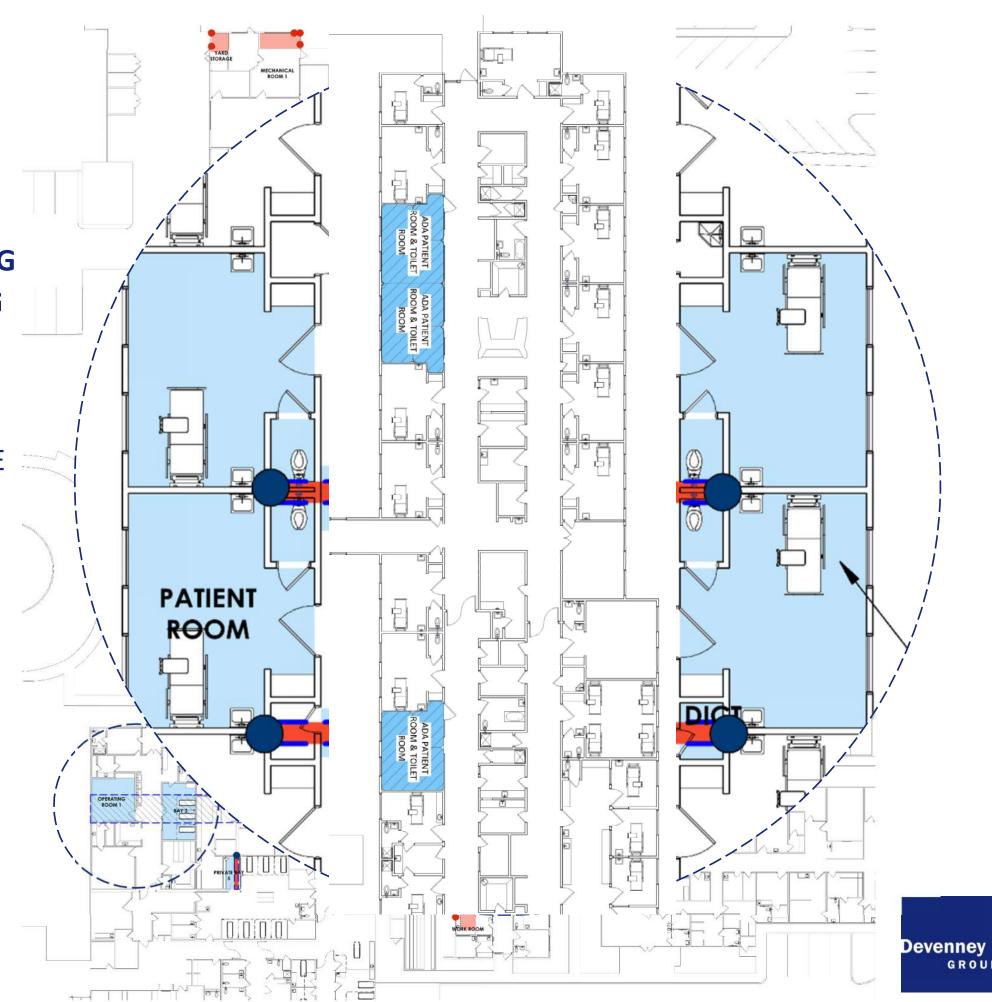
GROUI

SPC | Impacts

Adventist Mendocino Coast

ROOF COLLECTOR STREGTHENING NEW STRAP AND 4' SCAB ALONG SIDE OF ROOF JOIST

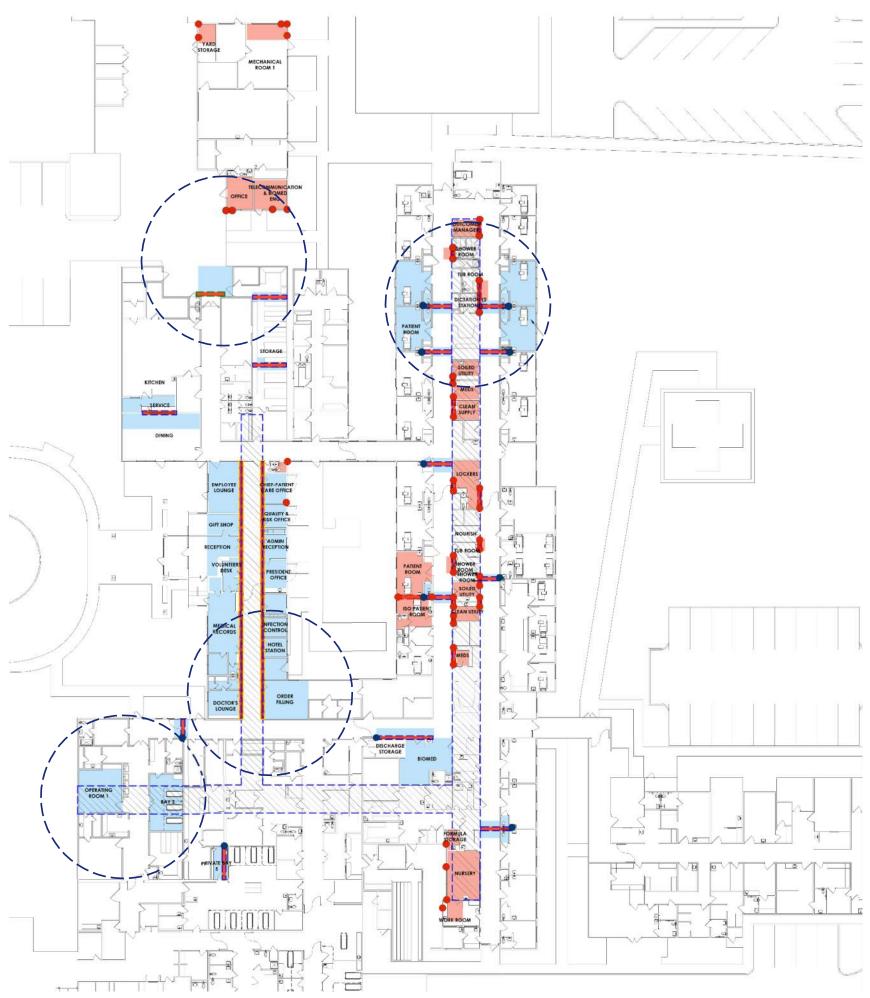
- WORK WITHIN PATIENT ROOM WILL REQUIRE UPGRADE TO 10% OF PATIENT ROOMS TO BE ACCESSIBLE, APPROXIMATELY (3) ROOMS
- REQUIRES APPROXIMATELY 1,000 SF OF CONSTRUCTION



SPC | Upgrades

Adventist Mendocino Coast

NEW HOLDOWN NEW CONCRETE EXPANSION ANCHORS ROOF COLLECTOR STRENGTHENING NEW STRAP AND 4' SCAB ALONG SIDE OF ROOF JOIST NEW PLYWOOD SHEATHING @ CEILING NEW CABLE SPACING IN ATTIC ABOVE NEW SEISMIC GAP BETWEEN BUILDING

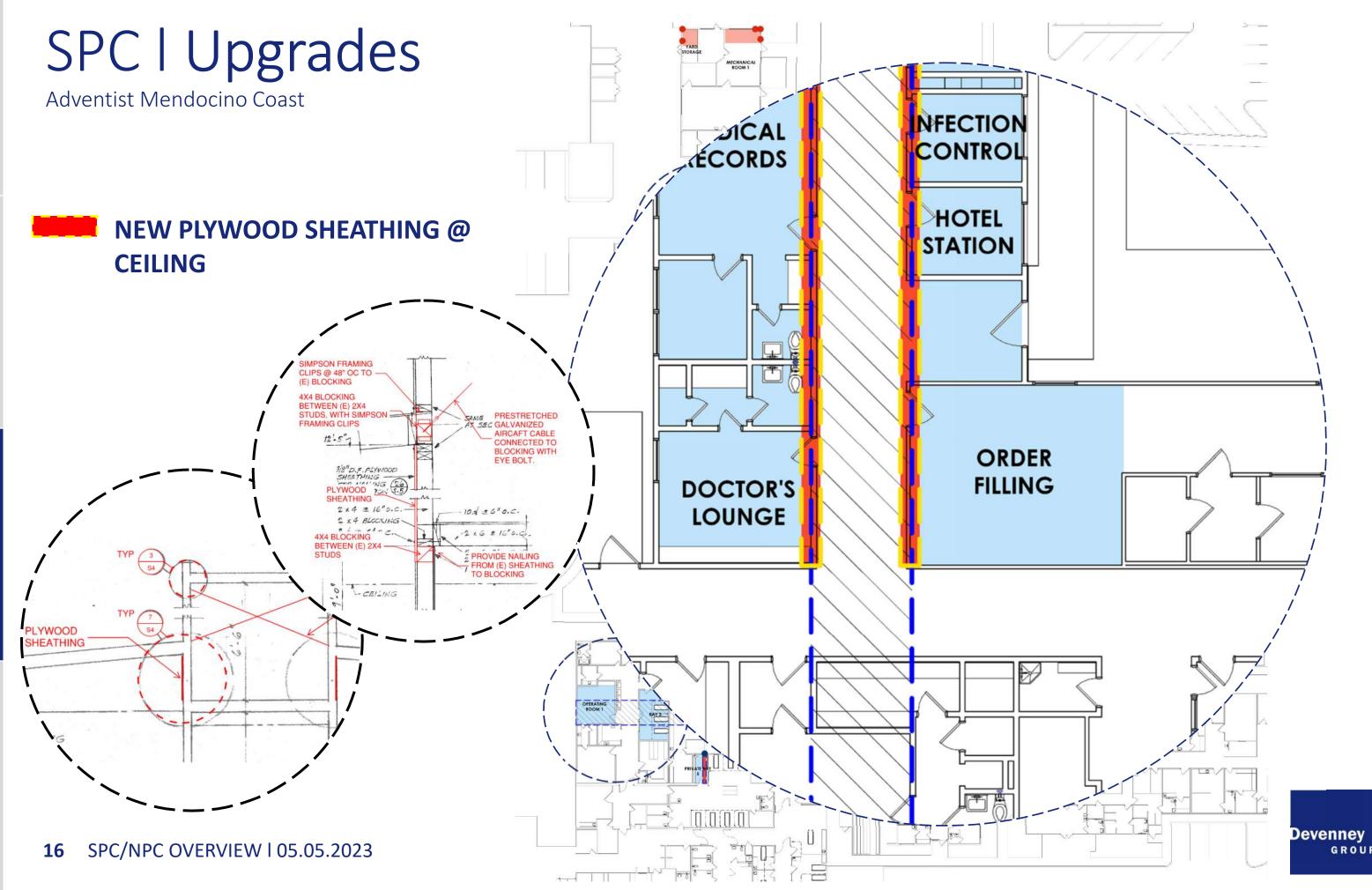


SPC



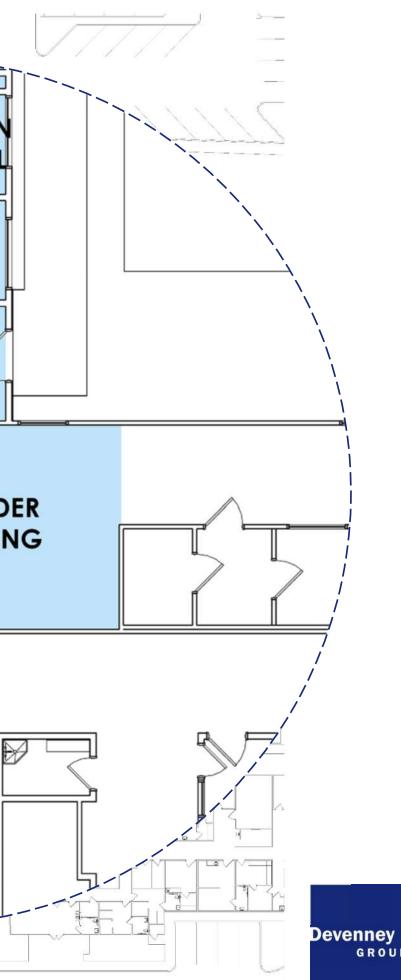
Devenney GROU

SPC



SPC

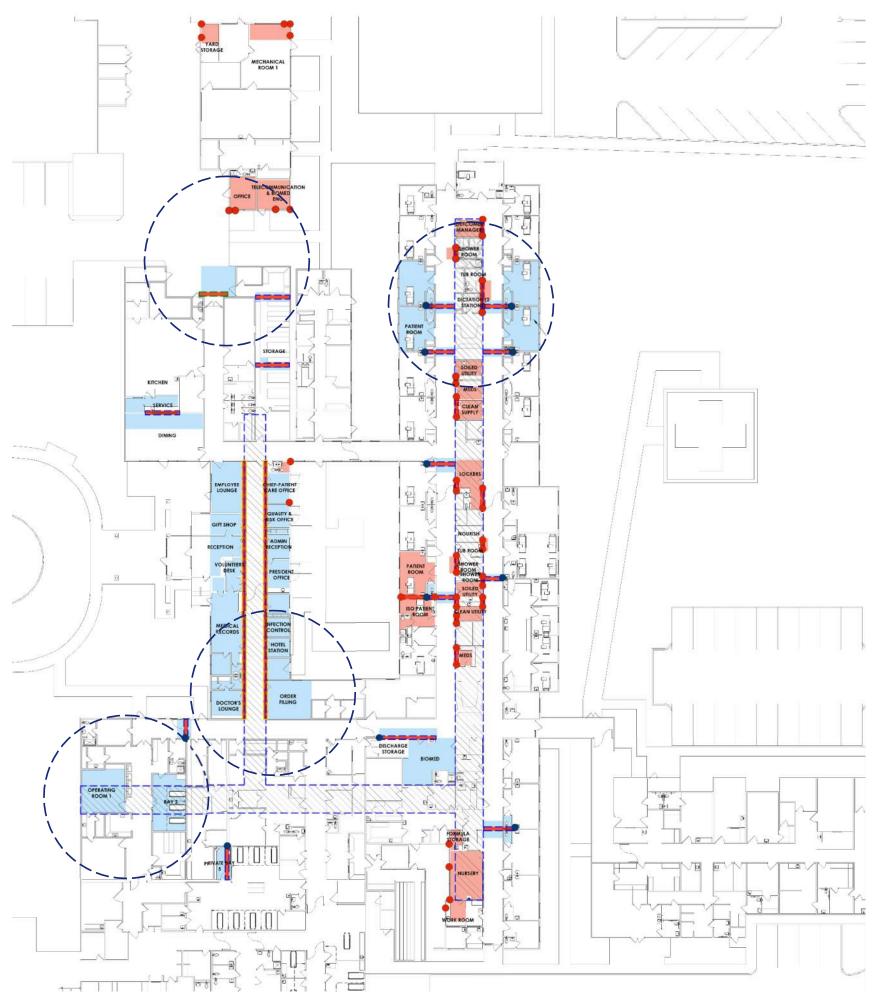
SPC | Impact ROOM 1 Adventist Mendocino Coast NFECTION **ICAL** CONTROL ÉCORDS HOTEL **NEW PLYWOOD SHEATHING @** STATION **CEILING** CONSTRUCTION WILL HAPPEN **ABOVE CEILING** MOST WORK IS IN ADMIN **AREA AND FRONT LOBBY** • LARGEST IMPACT TO OCCUR IN ORDER PHARMACY **FILLING** DOCTOR'S LOUNGE



SPC | Upgrades

Adventist Mendocino Coast

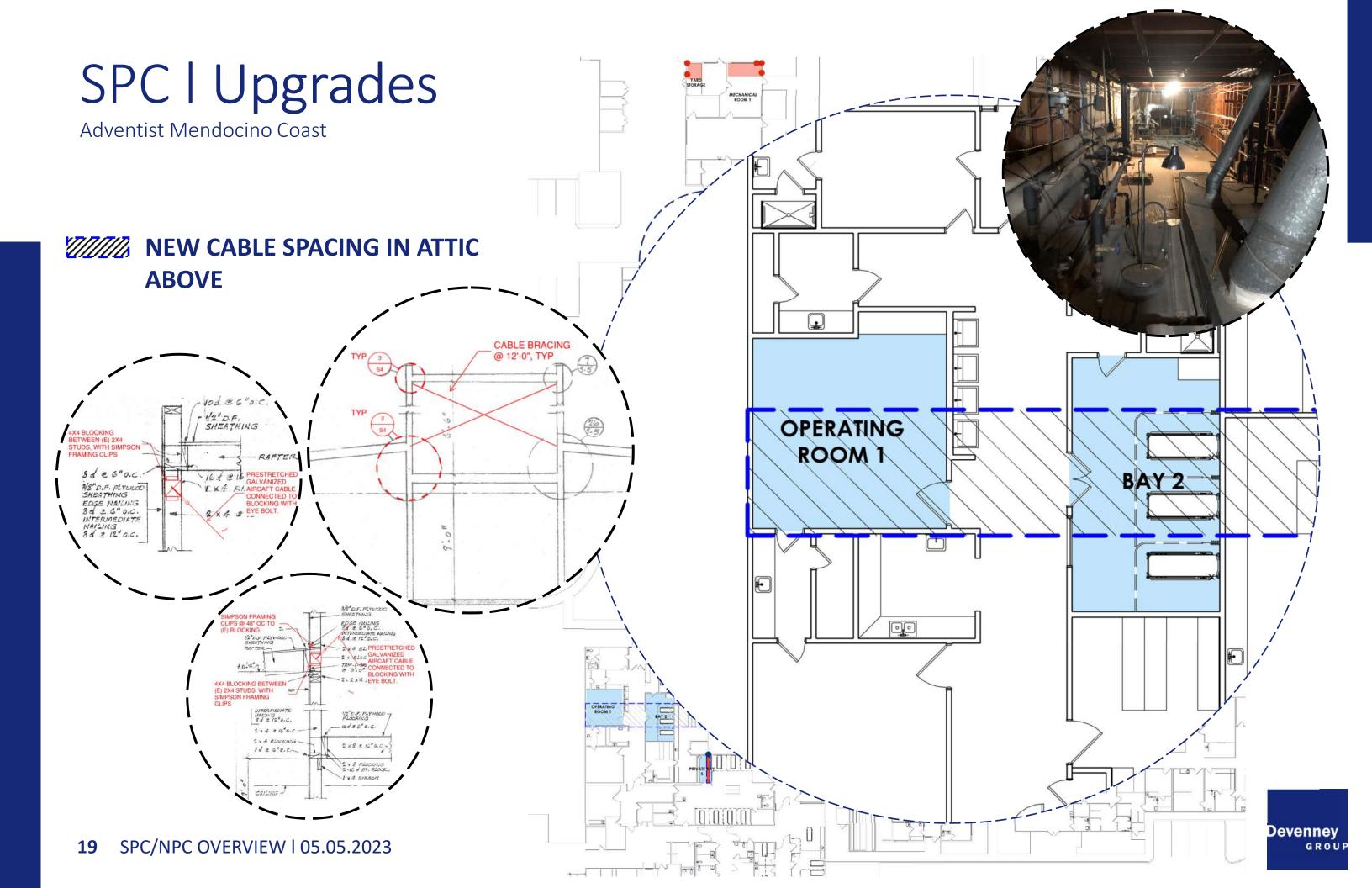
NEW HOLDOWN NEW CONCRETE EXPANSION ANCHORS ROOF COLLECTOR STRENGTHENING NEW STRAP AND 4' SCAB ALONG SIDE OF ROOF JOIST NEW PLYWOOD SHEATHING @ CEILING NEW CABLE SPACING IN ATTIC ABOVE NEW SEISMIC GAP BETWEEN BUILDING



SPC

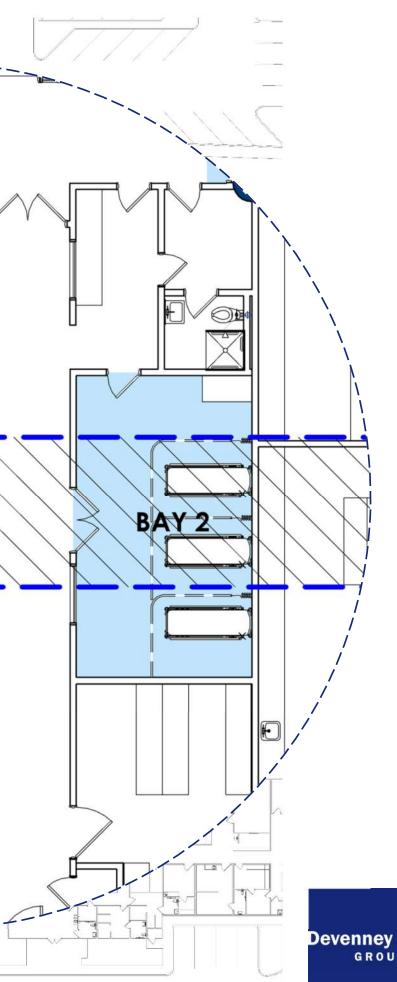


Devenney GROU



SPC | Impacts ECHANI ROOM Adventist Mendocino Coast **MEW CABLE SPACING IN ATTIC ABOVE P** CONSTRUCTION WILL HAPPEN IN ATTIC MOST WORK IS ABOVE SUPPORT AREAS NOT OPERATING ROOM 1 **IMPACTING OPERATIONS** LARGEST IMPACT TO OCCUR IN SURGERY – CONSTRUCTION TO **BE COORDINATED AROUND** SURGERY TIME TO NOT **DISRUPT OPERATIONS** 00 SPC/NPC OVERVIEW | 05.05.2023

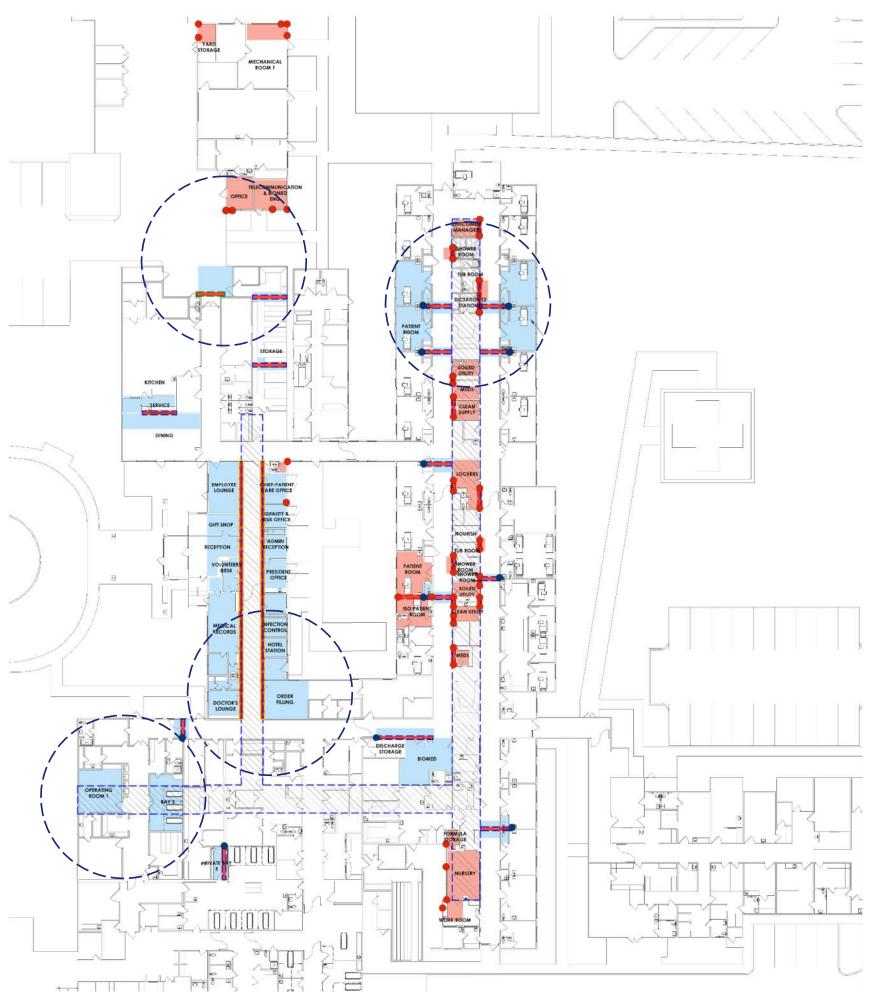
SPC



SPC | Upgrades

Adventist Mendocino Coast

NEW HOLDOWN NEW CONCRETE EXPANSION ANCHORS ROOF COLLECTOR STRENGTHENING NEW STRAP AND 4' SCAB ALONG SIDE OF ROOF JOIST NEW PLYWOOD SHEATHING @ CEILING NEW CABLE SPACING IN ATTIC ABOVE NEW SEISMIC GAP BETWEEN BUILDING



SPC



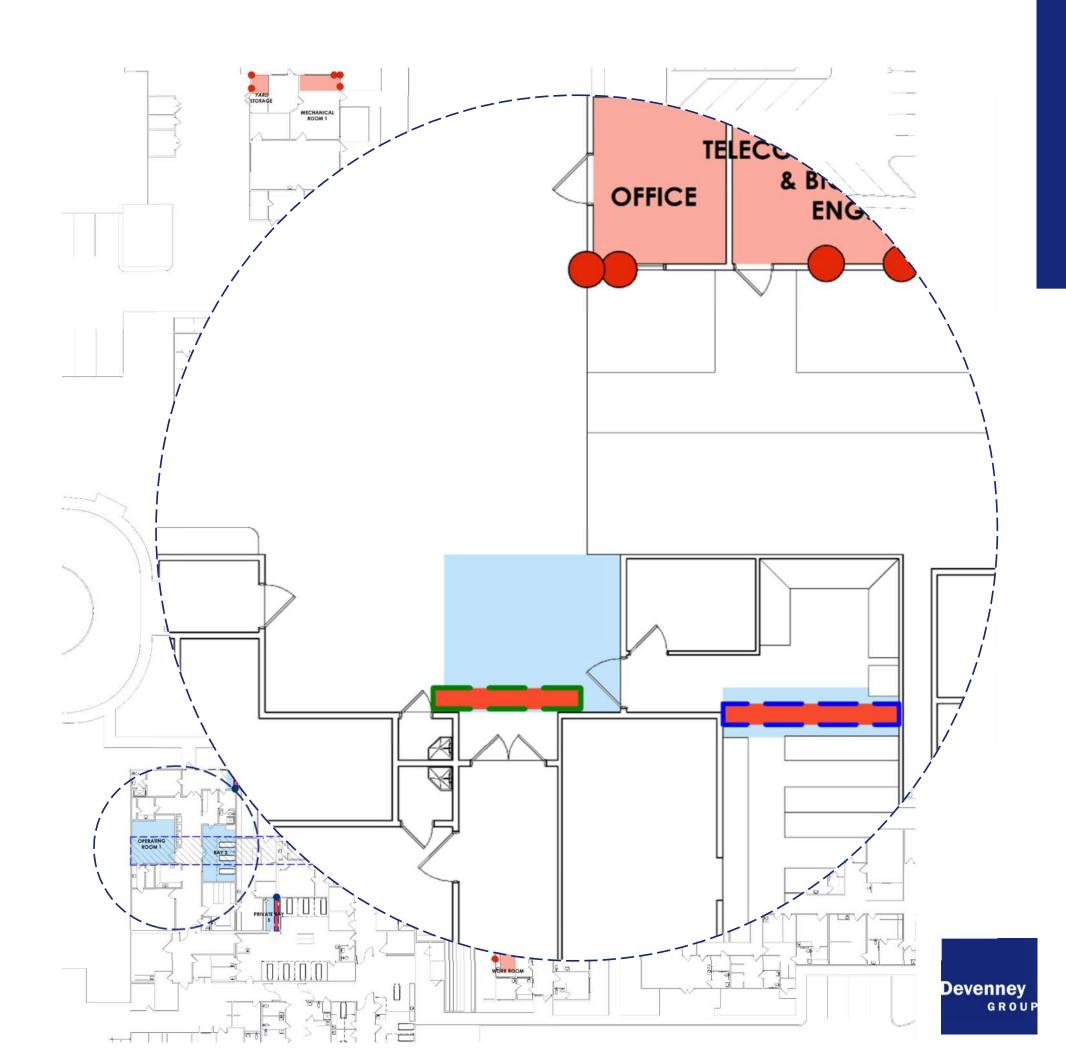
Devenney GROU

SPC | Upgrades

Adventist Mendocino Coast

NEW SEISMIC GAP BETWEEN BUILDING



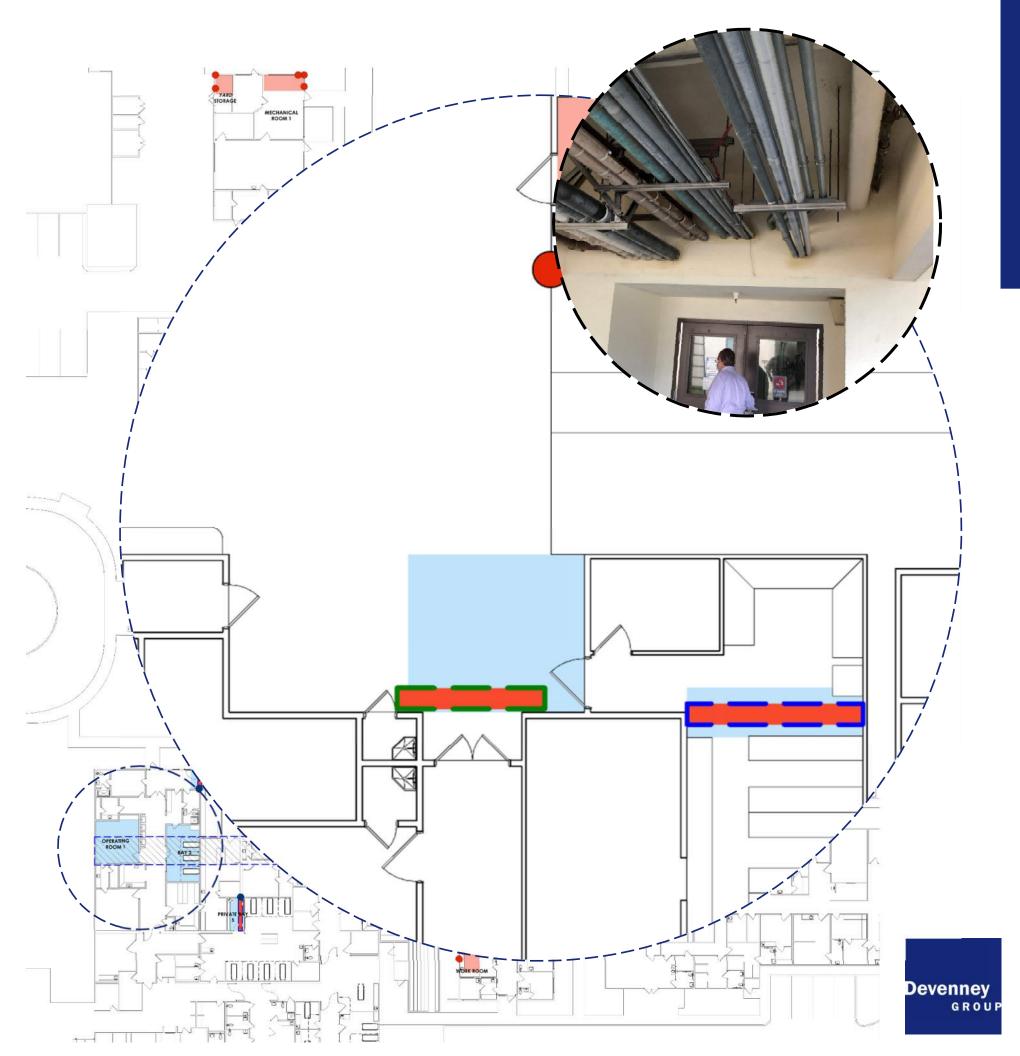


SPC | Impacts

Adventist Mendocino Coast

NEW SEISMIC GAP BETWEEN BUILDING

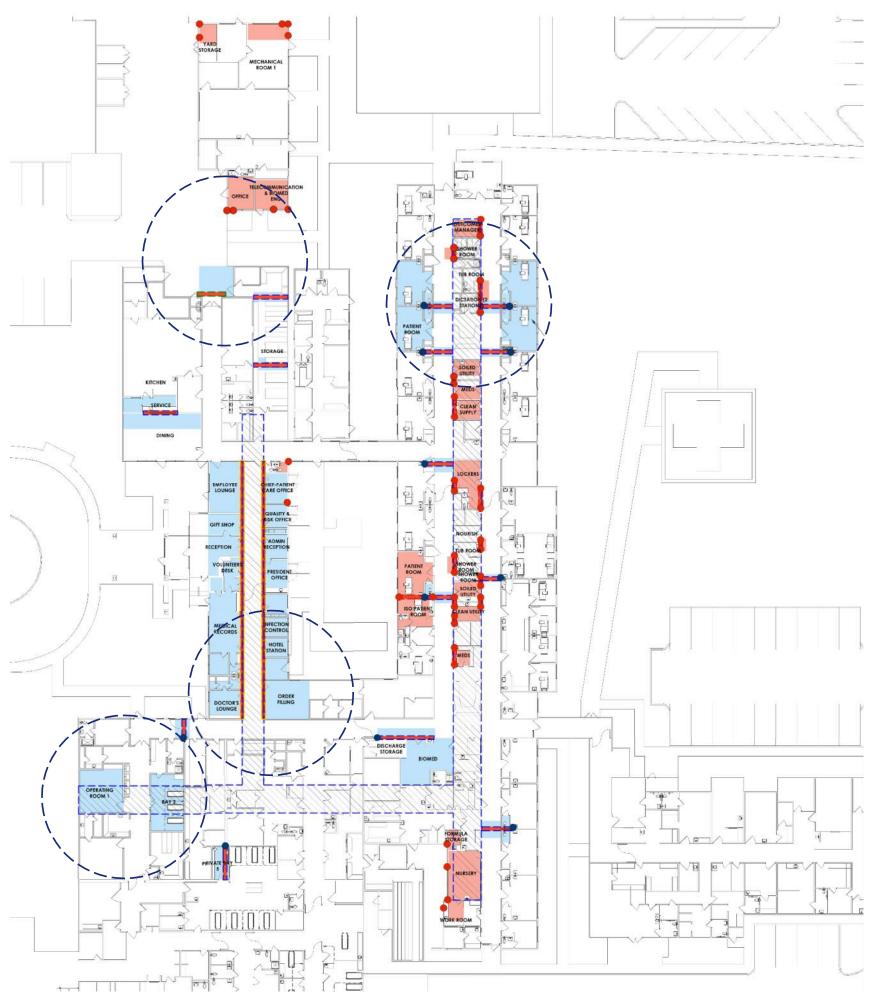
- CONSTRUCTION REQUIRES ADDING SEISMIC GAP AND SEISMIC CONNECTIONS OF UTILITIES BETWEEN CANOPY FROM CUP AND MAIN HOSPITAL BUILDING
- WILL IMPACT ALL UTILITIES GOING INTO THE FACILITY FROM CUP
- POTENTIAL TO LOSE UTILITIES DURING CERTAIN TIMES DURING CONSTRUCTION



SPC | Upgrades

Adventist Mendocino Coast

NEW HOLDOWN NEW CONCRETE EXPANSION ANCHORS ROOF COLLECTOR STRENGTHENING NEW STRAP AND 4' SCAB ALONG SIDE OF ROOF JOIST NEW PLYWOOD SHEATHING @ CEILING NEW CABLE SPACING IN ATTIC ABOVE NEW SEISMIC GAP BETWEEN BUILDING



SPC



Devenney GROU

NPC | Overview

Adventist Mendocino Coast

NPC

NON-STRUCTURAL PERFORMANCE CATEGORY

REQUIRES NON-STRUCTURAL COMPONENTS NI CRITICAL CARE AREAS, CLINICAL LABORATORY SERVICES SPACES, PHARMACEUTICAL SERVICE SPACES, RADIOLOGICAL SERVICE SPACES, AND CENTRAL AND STERILE SUPPLY AREAS ARE BRACED TO SATISFY THE REQUIREMENTS OF THE 1995 CBC, PART 2, TITLE 24 TABLE 16A-O.

GENERAL SPC



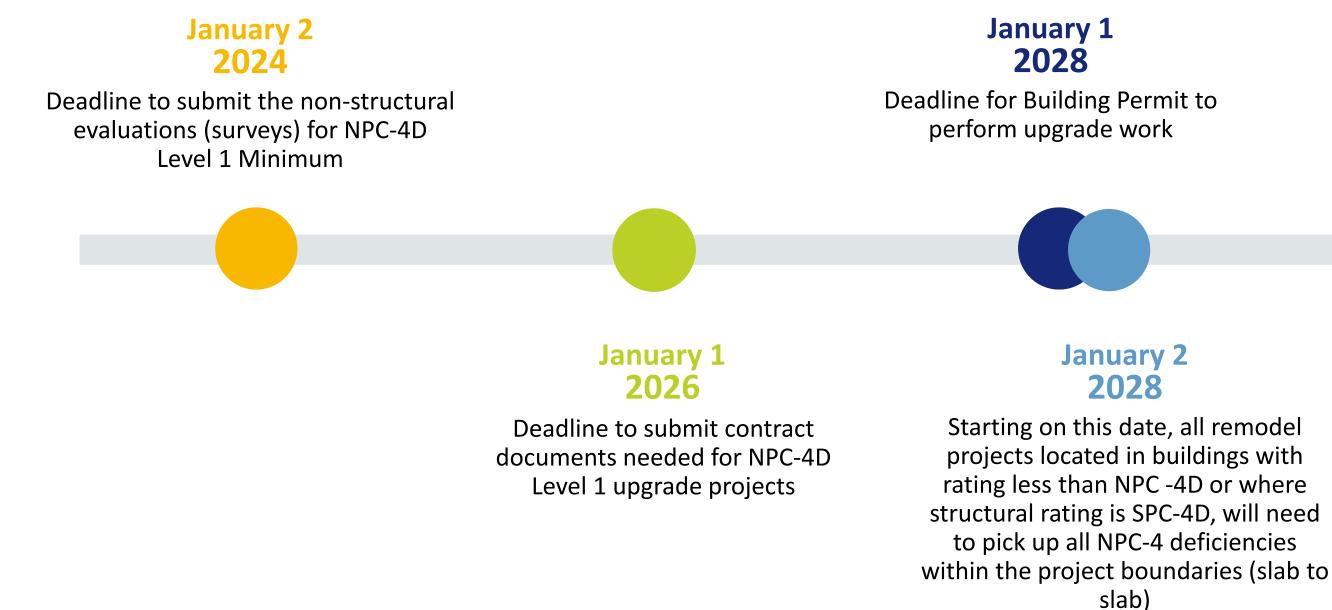
NPC | Upgrades

Adventist Mendocino Coast

- Bracing Compliance is organized into the following categories •
 - Equipment:
 - Storage racks over 5 feet tall
 - Permanent floor supported cabinets and book stacks over 5 feet tall
 - Access floor systems
 - Wall hung cabinets and storage shelving
 - Tanks and vessels
 - Electrical, mechanical and plumbing equipment necessary for continuing operation of the facility
 - Hospital (Medical) equipment when permanently attached to the building utility services
 - Suspended Ceiling and light fixtures
 - Piping distribution systems necessary for the continuing operation of the facility •
 - Sprinkler Systems

NPC | Timeline Requirements

Adventist Mendocino Coast





NPC | Scoping Study Steps

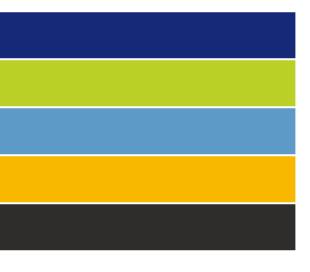
in the field or a comprehensive review of all projects.

Adventist Mendocino Coast

•

STEP 1:		
STEP 2:		
STEP 3:		
STEP 4:		
STEP 5:		

Intent of Scoping Study is to provide high level scoping of NPC-4D bracing required by 2030 with a limited timeframe – work did not include a nonstructural component survey





NPC | Scoping Study Steps

Adventist Mendocino Coast

Categorize each building based on year of design code and type of permit, which is primary indicator of extent of NPC work required within the building. Main Categories are:

PRE 1973	Buildings not permitted by OSA or OSHPD. Components are generally not in compliance with 2030 requirements and require bracing.	1984- 1994	Building Permitted by C bracing requirements a compliant. Extent of w consists of end of line s sprinkler branch lines
1973- 1983	Buildings permitting by OSA, which covers SPC compliance. Extent of work varies by 2030 and depends on extent of bracing enforced during original construction.	POST 1994	Buildings permitting k and no work required
EP 2:			
EP 3:			
-Р 4.			

STEP 5:

STE

ng Permitted by OSHPD, but fire sprinkler g requirements are not considered iant. Extent of work required by 2030 ts of end of line sway bracing for

lings permitting by OSHPD. Compliant no work required by 2030



NPC | Scoping Study Steps

Adventist Mendocino Coast

STEP 1: **STEP 2:**

- Identify type and size of critical care area included within each building.
- Intent of step is to identify the extent of critical care departments at the facility within each category of building. Many critical care departments tend to be located in newer buildings resulting in less overall bracing required at the facility.

STEP 3: STEP 4:

STEP 5:



NPC | Scoping Study Steps

Adventist Mendocino Coast

STEP 1:
STEP 2:
STEP 3:
 Outline Boundaries of critical care departments within each building on flo plans provided
• The boundaries consider the extent of departments that fall within the

critical care definitions of the CBC

STEP 4:

STEP 5:

SPC/NPC OVERVIEW | 05.05.2023 31

loor



NPC | Scoping Study Steps

Adventist Mendocino Coast

STEP 1:			
STEP 2:			
STEP 3:			
STEP 4:			

- Prepare matrix that includes extent of departments within each building
- The year of construction provides baseline level of bracing compliance
- Matrix Contents:
 - Departments
 - Identified Project Notes Estimated nonstructural compliance
 - For each Department an estimated % Compliance
 - Summary information by campus and building

STEP 5:



NPC | Scoping Study Steps

Adventist Mendocino Coast

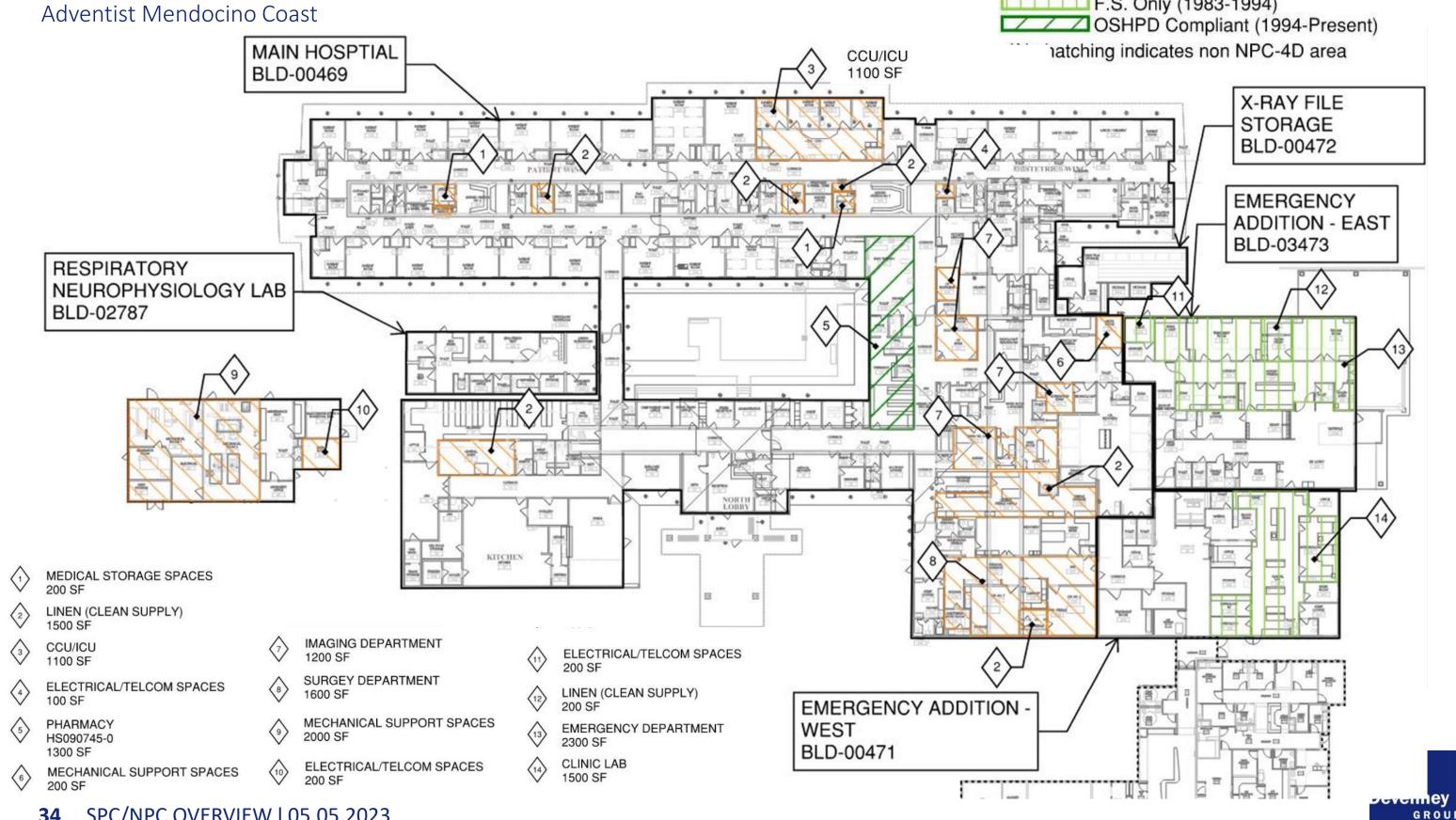
STEP 1:		
STEP 2:		
STEP 3:		
STEP 4:		

STEP 5:

- Review select remodel document and visit site to identify extent of bracing \bullet under past projects that reduce the extent of nonstructural bracing work required by 2030
- Information is covered in notes and defines the percent of bracing ulletcompliance



NPC | Scoping Study



SPC/NPC OVERVIEW | 05.05.2023 34

NPC

LEGEND:

PRE-1973 OSA (1973-1983) F.S. Only (1983-1994)

NPC | Scoping Study

Adventist Mendocino Coast



Campus Totals		NPC Item Estimated % Compliant, Overall Campus				
		Equipment	Ceilings	Lights	Utilities	Sprinklers
Pre-1973 Areas =	8100 sf	10	10	10	10	10
1973-1983 OSA Permit Areas =	sf	0	0	0	0	0
1984-1994 F.S. Only Areas =	4200 sf	100	100	100	100	0
NPC-4D Level 1 Compliant =	1300 sf	0	0	0	0	0
No Work Required for NPC-4D Level 1 compliance =	42900 sf	100	100	100	100	100
Campus Total =	56500 sf	85	77	77	77	77
uare footage requiring work to achieve NPC-4D, Level 1:	22%					

% of total square footage requiring work to achieve NPC-4D, Level 1:

Note: In addition, all equipment in Mechanical areas, including CUPS, roofs and penthouses, that serve critical care areas must be anchored.

LEGEND:

PRE-1973 OSA (1973-1983) F.S. Only (1983-1994) *No hatching indicates non NPC-4D area



NEW HOSPITAL | Market Assessment Findings

Adventist Mendocino Coast

- County Market projected to grow by .1% in Next ten years but Aging Population to grow in region by 13%
 - Drives overall bed need up by 4.4% •

FUTURE PROJECTED PROGRAM (2031)	MARKET PROJECTIONS ¹
BEDS – ICU	4
BEDS – GENERAL ACUTE	12
ED BAYS	14
SURGERY – OPERATING ROOMS	2
СТ	1
RAD/FLUORO	2
ULTRASOUND	1
MRI/NM	MOBILE
ENDO	2



NOTES:

1. BASED ON MARKET ASSESSMENTS AND FACILITY PROJECTIONS 9.23.2022

Represents 84% of ED visits and 86%

Secondary Service Area (SSA) extends to **Mendocino County**



NEW HOSPITAL | Program

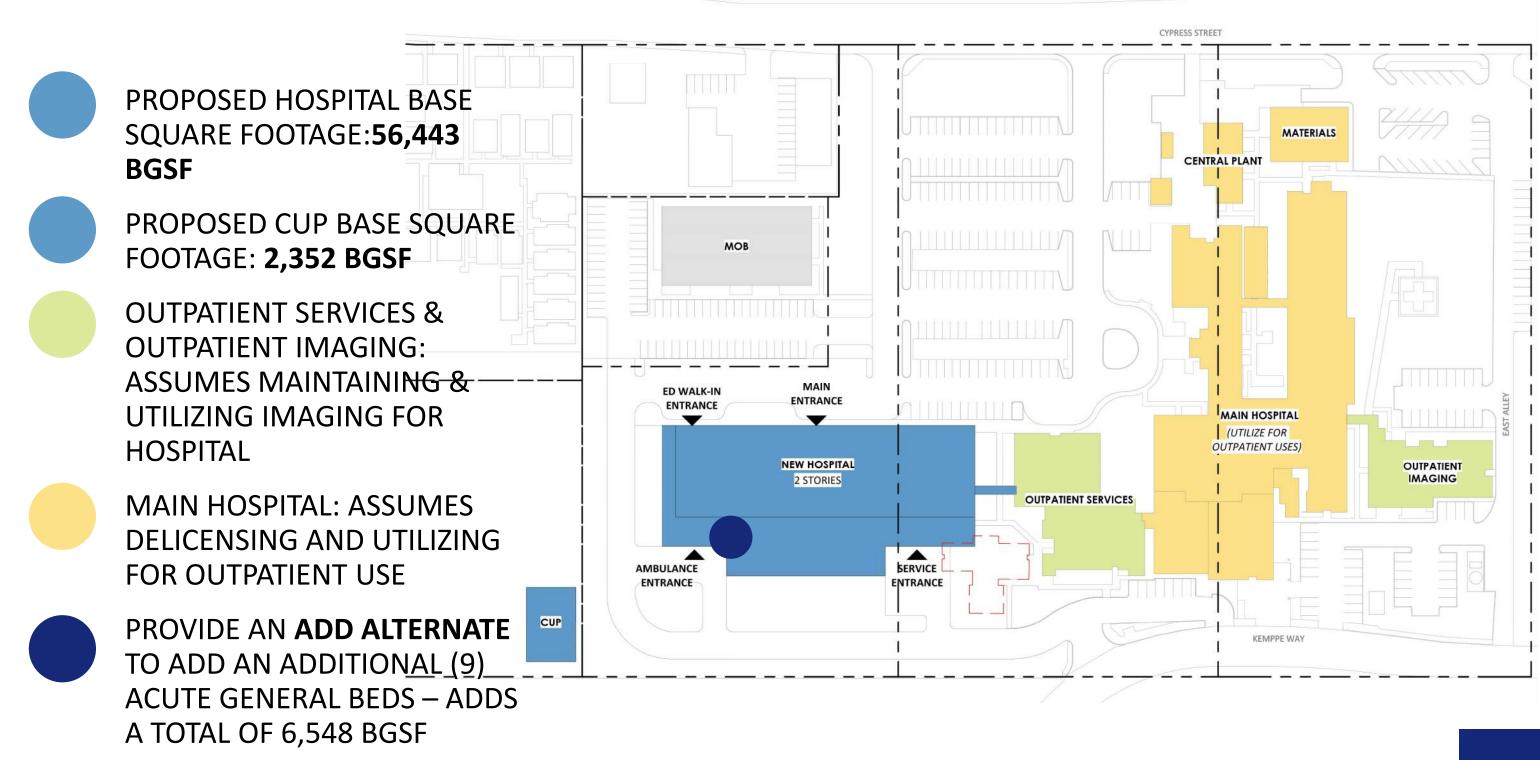
Adventist Mendocino Coast

FUTURE PROJECTED PROGRAM (2031)	NEW HOSPITAL PROGRAM	EXISTING HOSPITAL PROGRAM	DELTA
BEDS – ICU	4	4	
BEDS – GENERAL ACUTE	12	21	(9)
ED BAYS	14	8	+ 6
SURGERY – OPERATING ROOMS	2	2	
СТ	0	0	
RAD/FLUORO	1	1	
ULTRASOUND	0	0	
MRI/NM	0	0	
ENDO	2	1	+ 1



NEW HOSPITAL | Proposed Square Footage

Adventist Mendocino Coast





General | Pricing

Adventist Mendocino Coast

	UPGRADES	CONS
SPC 4D UPGRADES	\$4,602,325	
NPC 4D UPGRADES	\$7,532,272	
NEW HOSPITAL		
CENTRAL UTILITY PLANT		
TOTAL CONSTRUCTION COSTS	\$12,134,597 ^{2,3,4}	\$96
ADD ALTERNATE – ADD (9) ACUTE BEDS	n/a	+ \$3

Notes:

- 1. Assumes construction through 06/2028
- 2. Excludes NPC 5
- 3. Excludes Full Building NPC 4 Upgrades
- 4. SPC/NPC upgrades does not include any operational upgrades

NEW HOSPITAL ISTRUCTION 1

CDC/NDC CANADIIC

\$84,733,741 \$12,018,324

6,752,065¹

\$10,791,394





Adventist Mendocino Coast

