

FKP Architects

ARCHITECT OF RECORD

Paul C. Gloriot



REVISIONS

APPROVAL



PROJECT NAME

CHILDREN'S HOSPITAL
OF ORANGE COUNTY

455 S. Main St.
Orange, CA 92668-3874

TOWER II



PROJECT NUMBER

12011.00
Increment #7

OSHPD - PROJECT NUMBER

IL 072072-30

ISSUE

OSHPD PERMIT

DATE

01/27/2010

SCALE

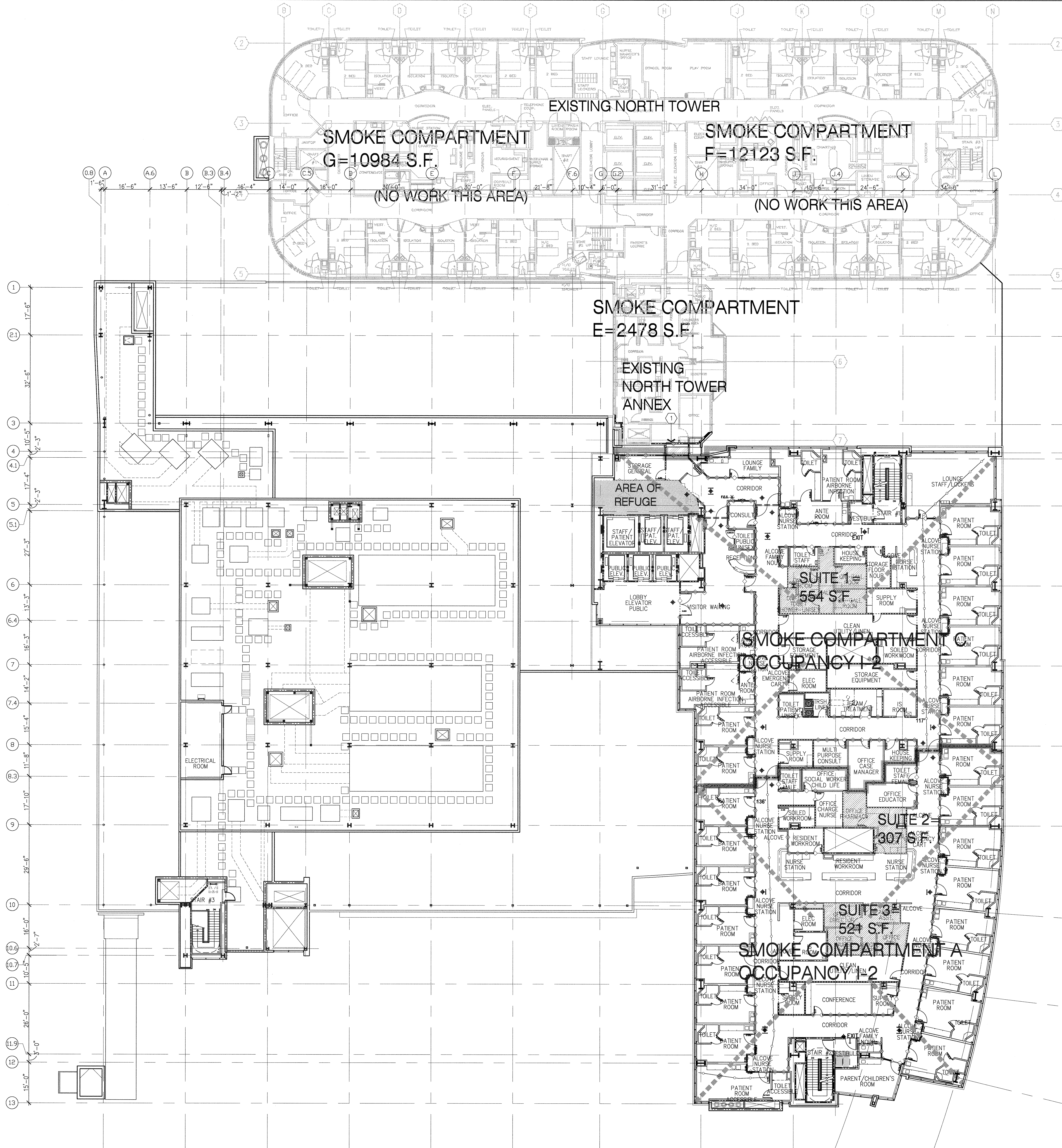
1/16" = 1' - 0"

DRAWING TITLE

LEVEL 5 LIFE SAFETY
PLAN-A

DRAWING NUMBER

AC2.5A



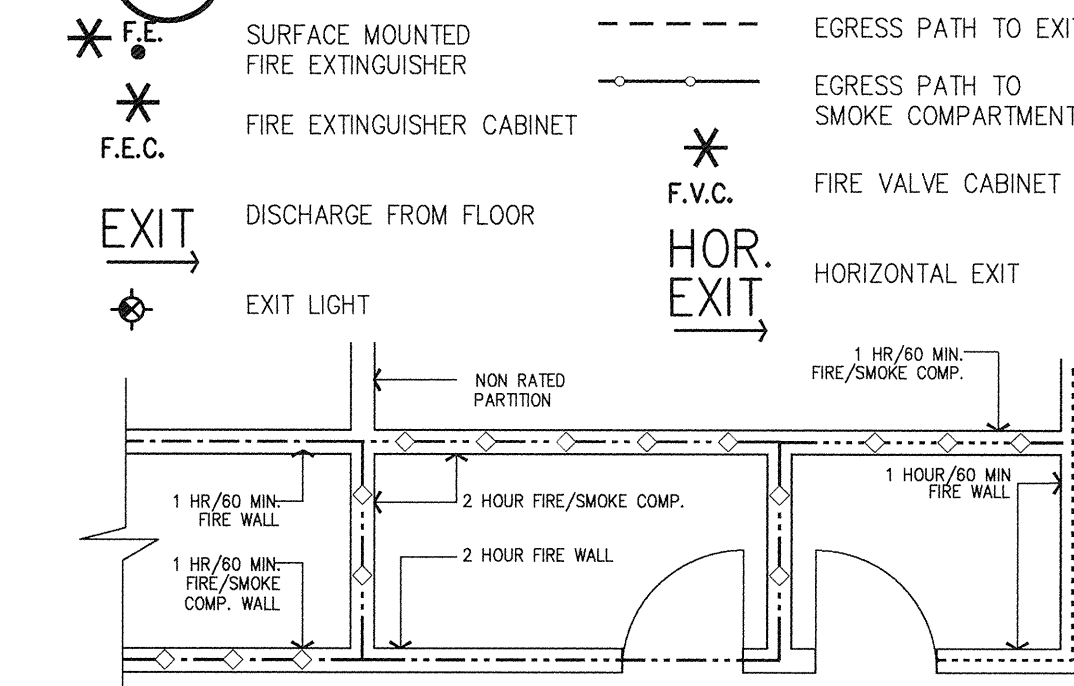
A6 OVERALL LIFE SAFETY PLAN

1. Level 5 existing north tower annex tie-in will not occur this project. Pending future renovation project to provide required 8' wide access corridor separation. (N.I.C.)

C2 NOTES TO SHEET

- INFORMATION SHOWN OR REFERENCED ON ENLARGED AND/OR 1/4" SCALE DRAWINGS WILL GENERALLY NOT BE SHOWN ON THE SMALLER SCALE DRAWINGS.
- PURPOSE OF THESE DRAWINGS: TO SHOW OVERALL BUILDING PLAN ORIENTATION, SMOKE COMPARTMENTS, SUITED AREAS, FIRE EXTINGUISHER CABINET LOCATIONS, PROPOSED GENERAL EXIT SIGNS FOR EGRESS ROUTING, EGRESS DISTANCES WORSE CASE TO STAIRS OR HORIZONTAL EXIT, FIRE WALLS, OCCUPANT LOADING EXIT CALCULATIONS AND AREAS OF REFUGE CALCULATIONS.
- FIRE/SMOKE GRAPHICS LEGEND IS THE SAME FOR ALL PLAN SHEETS IN THE SET. TYPICAL CORRIDOR WALL RATING INDICATES MINIMUM ONE HOUR CORRIDOR WALLS, UNLESS OTHERWISE NOTED TO BE HIGHER RATED RESTRICTIONS. ALL DOORS IN TYPICAL CORRIDORS ARE NOT RATED. ALL WINDOWS IN TYPICAL CORRIDORS ARE NOT RATED, BUT LIMITED TO 25% OF THE INTERIOR SPACE FACING THE CORRIDOR WALL.
- SHELLED SPACE IS NOT FOR HOSPITAL USE UNTIL PROPOSED LAYOUT IS REVIEWED AND APPROVED BY OSHPD.
- IT IS THE INTENT THAT MATERIALS LISTED IN FIRE RATED DESIGNS IN THE DRAWINGS MATCH THOSE PRODUCTS INCLUDED IN THE PROJECT MANUAL (SPECIFICATIONS). SUBMITTAL OF MANUFACTURER'S PRODUCTS LISTED IN THE FIRE RESISTANT RATING TEST, BUT NOT SPECIFIED IN THE PROJECT MANUAL, WILL BE SUBJECT TO REJECTION. THIS INCLUDES BUT IS NOT LIMITED TO ALTERNATE MANUFACTURERS LISTED IN U.L. BUILDING MATERIALS DIRECTORY OR SIMILAR LITERATURE.
- IN THE EVENT OF A CONFLICT IN EITHER PUBLISHED TEST DATA INCLUDED IN THE DOCUMENTS AND/OR THE PROJECT MANUAL (SPECIFICATIONS), PLEASE NOTIFY THE ARCHITECT PRIOR TO PREPARATION OF SUBMITTAL DOCUMENTS AND/OR PURCHASE OF MATERIALS OR FABRICATION.
- UNDER NO CIRCUMSTANCE WILL BUILDING PRODUCTS REQUIRED BY FIRE-RATED ASSEMBLIES BE ACCEPTED WITHOUT INDEPENDENT TEST RESULTS FROM NATIONALLY RECOGNIZED TESTING LABORATORIES OR MODEL BUILDING CODE ORGANIZATIONS, AS APPROVED BY OSHPD.
- SEE PARTITION TYPES AND REFERENCE DETAILS FOR SOUND TRANSMISSION CLASS AND/OR FIRE RESISTANCE REQUIREMENTS.

C2 GENERAL NOTES



EXAMPLE - FIRE/SMOKE RATING

- TYPICAL CORRIDOR WALL [1 HOUR WALL/DOORS SMOKE-RATED/NON-RATED WINDOWS LIMITED IN SIZE(25% OF WALL)] CBC 407.3.
- ONE HOUR FIRE RATED WALL (OCCUPANCY SEPARATION) WITH 60 MIN. DOORS: CBC 508.
- ONE HOUR FIRE/SMOKE RATED WALL (OCCUPANCY SEPARATION) WITH 60 MIN. DOORS: CBC 709.
- TWO HOUR FIRE RATED WALL (SHAFT ENCLOSURE, OCCUPANCY SEPARATION & HORIZONTAL EXIT) WITH 90 MIN. DOORS: CBC 508, 707 & 1022.
- TWO HOUR FIRE/SMOKE RATED WALL (SHAFT ENCLOSURE/SMOKE COMPARTMENT) WITH 90 MIN. DOORS: CBC 404.4 & 707.
- 3 HOUR RATED WALL (OCCUPANCY SEPARATION) 180 MIN. DOORS: CBC 715.
- 3 HOUR FIRE/SMOKE RATED WALL (OCCUPANCY SEPARATION/SMOKE COMPARTMENT) 180 MIN. DOORS: CBC 404.4 & 715.
- 4 HOUR RATED WALL (OCCUPANCY SEPARATION) 180 MIN. DOORS: CBC 715.
- SMOKE COMPARTMENT WALLS-ONE HOUR RATE WITH 60 MIN. DOORS: CBC 407.4, 709 & 715.
- DISCHARGE PATH TO PUBLIC WAY

Suites Shell Space

Area of refuge. (Rescue Assistance)
Code Requirement: 200 Occupants per one
area of refuge. Level 5 $275.1/200 = 1.4$ min.

LEVEL 5 SMOKE COMPARTMENT AND EXITING CALCULATIONS:

COMPARTMENTS & OCCUPANCY:	AREA (SF)	OCCUPANT TYPE	LOAD FACTOR PERSON	OCCUPANTS	REQUIRED EXIT (IN)	WIDTH REQ. (IN)	WIDTH PROVIDED (IN)	EXITS
A I-2 OCC.	12,110	SLEEP AREA	120	100.9	HOR.=2	24.9	46	STAIR #2 (46)
	284	CONFERENCE	15	18.9	VERT.=3	37.3	38	STAIR #2 (44)
	554	SLEEP AREA	120	4.6				STAIR #1 (38 OF 44)
TOTAL	12,948			124.4				
C I-2 OCC.	14,588	SLEEP AREA	120	121.6	HOR.=2	29.9	46	STAIR #1
	317	WAITING	15	21.1	VERT.=3	44.9	50	STAIR #1 (44)
	307	SLEEP AREA	120	2.6				STAIR #1 (6 OF 44)
	521	SLEEP AREA	120	4.3				
TOTAL	15,733			149.6				
TOTAL	28,681			274		54.8	92	
						82.2	88	

LOWER FIVE SMOKE COMPARTMENT REFUGE AREA CALCULATIONS:

COMPARTMENTS & OCCUPANCY:	AREA (SF)	ADJOINING SMOKE COMP. (S)	OCCUPANT LOAD	REQ. SF PER OCCUP.	REQ. AGGREGATE AREA (SF)	AGGREGATE AREA PROVIDED (SF)
A I-2 OCC.	12,948	C	129	30	3,870	2,735
		WAIT-21	6	126	756	2,578
					3,996	5,313
C I-2 OCC.	15,733	A	106	30	3,180	2,851
		WAIT-19	6	114	684	3,673
					3,294	6,524

A2 COMPARTMENT TABULATIONS