

FKP Architects

ARCHITECT OF RECORD

Paul C. Gloriot

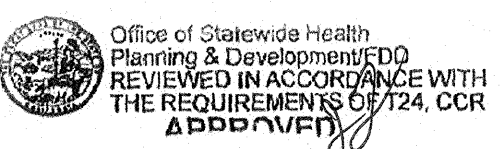


Changes on these drawings do not consist of materials altered, changed, or approved drawings and don't require change order.
OSHPD review ACO
OSHPD review FLSO
OSHPD review DSE

REVISIONS

61	03/01/11	CO #134
62	08/08/11	CO #135

APPROVAL



CHANGE ORDER 135
INSTRUCTION BULLETIN
DEFERRED APPROVAL
DO NOT USE

PROJECT NAME

CHILDREN'S HOSPITAL
OF ORANGE COUNTY

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

TOWER II

RECEIVED
SEPT. 21 2011
McCARThy



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 2 LIFE SAFETY
PLAN-A

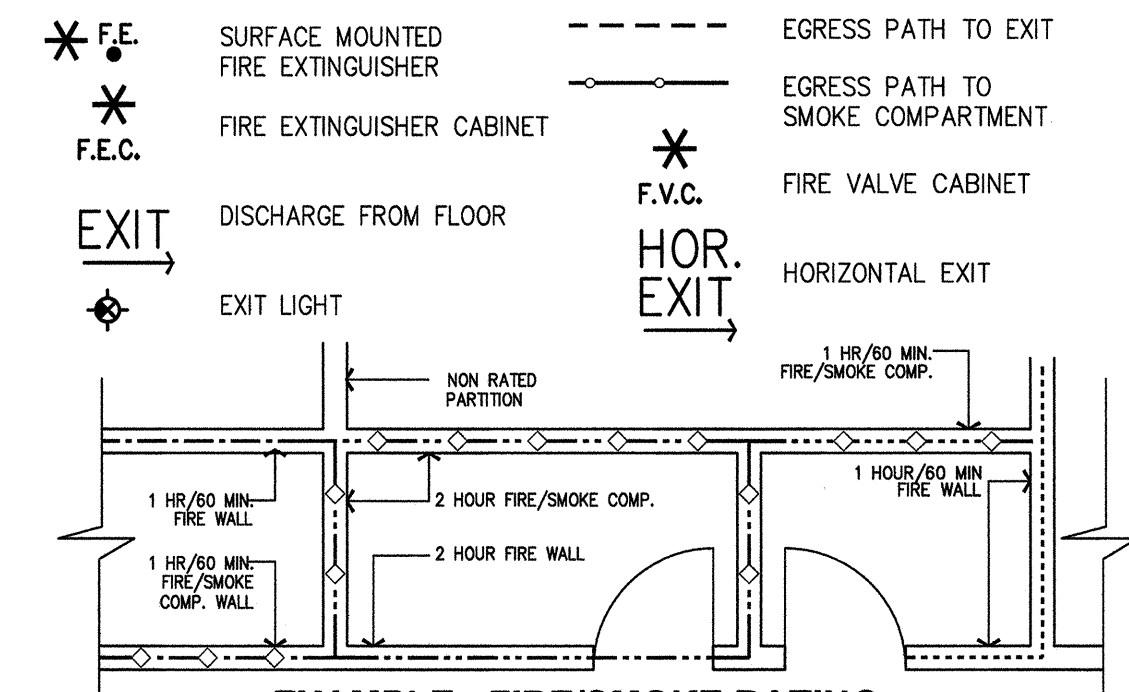
DRAWING NUMBER

AC2.2A

E1 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, SMOKE EXTINGUISHER CABINET LOCATIONS, PROPOSED GENERAL EXIT SIGNS FOR EGRESS ROUTING, EGRESS DISTANCES, WALKWAYS 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. 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 SET, 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.

D1 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, 708 & 715.
- DISCHARGE PATH TO PUBLIC WAY

Suites Shell Space

Area of refuge. (Rescue Assistance)
Code Requirement: 200 Occupants per one area of refuge. Level 2 1,054.3/200 = 5.3 min.

LEVEL 2 SMOKE COMPARTMENT AND EXITING CALCULATIONS:									
FIRE COMP. & OCC.	AREA (SF)	OCCUPANT TYPE	LOAD FACTOR PERSON	OCCUPANTS	REQUIRED EXIT (IN)	WIDTH REQ. (IN)	WIDTH PROVIDED (IN)	EXITS	
A	0	0	0	0	HOR.=2 VERT.=3	0	0	0	
B	17,916	BUSINESS	100	179.2	HOR.=2 VERT.=3	71.2	81	STAIR #3 (45), HOR. EXIT #1 (36 OF 60)	
B OCC.	2,172	CONF	15	144.8	HOR.=2 VERT.=3	106.9	112.5	STAIR #3 (58.5), HOR. EXIT #1 (54 OF 60)	
	813	LIBRARY	50	16.3				* HOR. EXITS-MAX. 1/2 REQ'D.	
	640	MEDITATION	40	16				EXITS-CBC 1022.1	
TOTAL	21,541			396.2					
C	4,967	INPATIENT	240	20.7	HOR.=2	98.5	105	STAIR #1 (45), HOR. EXIT #1 (60)	
	1,418	ACTIVITY	15	94.5					
	325	CONF	15	21.7	HOR.=2	147.7	155	STAIR #1 (57), HOR. EXIT #4 (60), HOR. EXIT #5 (38 OF 60)	
	2,035	O.D. ACTIVITY	15	135.7					
	10,184	BUSINESS	100	101.8					
	140	WAITING	15	9.3					
	1,014	BOARD ROOM	15	67.6					
	545	CONFERENCE	15	36.3					
SUITE 3	1,151	INPATIENT	240	4.8				* HOR. EXITS-MAX. 2/3 REQ'D.	
TOTAL	21,779			492.5				EXITS-CBC 1022.1	
D	11,251	INPATIENT	240	46.7	HOR.=2	86.6	102	STAIR #4 (45), HOR. EXIT #1 (52 OF 60)	
	1,289	BUSINESS	100	128.9	HOR.=2 VERT.=3	129.9	148	STAIR #4 (62), HOR. EXIT #2 (44), HOR. EXIT #1 (42 OF 60)	
B OCC.	1,082	M.D. DINING	15	72.1					
	1,574	P DINING	15	105.0					
	1,811	KITCHEN	200	9.1					
	206	CONF	15	13.7					
	1,076	O.D. DINING	15	71.7					
	1,925	O.D. ACTIVITY	15	128.3					
SUITE 1	2,096	BUSINESS	100	20.9				* HOR. EXITS-MAX. 2/3 REQ'D.	
	55	WAIT	15	4.3				EXITS-CBC 1022.1	
SUITE 2	792	BUSINESS	100	7.9					
	57	WAIT	15	3.8					
TOTAL	18,683			432.8					
E	236	CHEST RM	240	1.4	HOR.=2	1.4	88	2 HOR. EXITS	
I2 OCC.	335	FLUOROSCOPY	240	2					
	99	PHYSICIAN'S OFFICE	100	1					
	263	PACS/READING RM	100	3					
TOTAL	933			7					
TOTAL	62,936			1,289	HOR.=2 VERT.=3	256.3	376.0		

LEVEL TWO SMOKE COMPARTMENT REFUGE AREA CALCULATIONS:

COMPARTMENTS & OCCUPANCY	AREA (SF)	ADJ. OCCUPANT LOAD	OCCUPANT LOAD	REQ. SF OCCUP.	REQ. SF AGGREGATE AREA (SF)	AGGREGATE AREA PROVIDED (SF)
A	0	0	0	0	0	0
B	21,541	492.5	6	2,955.0	9,315	9,315
B OCC.	432.9	6	2,597.4	5,682.4	5,682.4	5,682.4
C	21,779	356.2	6	2,137.2	5,027	5,027
I2 OCC.	18,683	356.2	6	2,137.2	5,027	5,027
D	492.5	6	2,955.0	1,574	1,574	1,574
I2 OCC.	5,092.2	6	5,092.2	4,027	4,027	4,027

A1 LEGEND

A6 OVERALL LIFE SAFETY PLAN