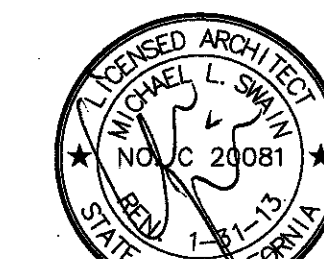


FKP Architects

ARCHITECT OF RECORD
Paul C. Gloriot

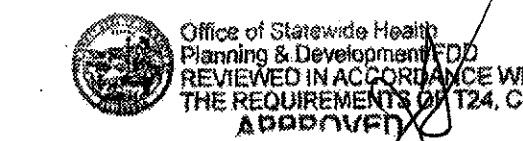


Changes on these drawings do not consist of mutually aligned changes to approved drawings and do not require a change order.
OSHPD review ACO
OSHPD review FLSO
OSHPD review DSE

REVISIONS

02/13/11 CO #300

APPROVAL



CHANGE ORDER #200
INSTRUCTION BULLETIN
DEFERRED APPROVAL
ADDENDUM

PROJECT NAME PAD 2011-02398

CHILDREN'S HOSPITAL
OF ORANGE COUNTY
455 S. Main St.
Orange, CA 92668-3874

TOWER II Received
June 05 2012
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 4 LIFE SAFETY
PLAN-A

DRAWING NUMBER

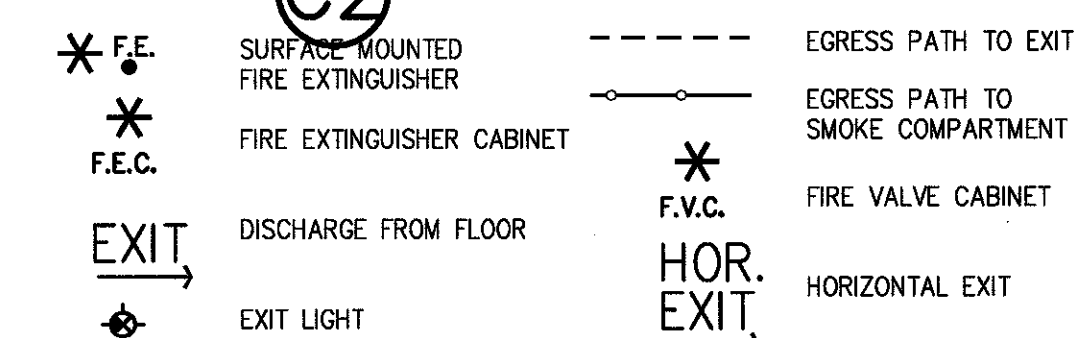
AC2.4A

E2 NOTES TO SHEET

1. Work door opening, 1 Hour Fire/Smoke.
2. Level 4 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.)

- A. INFORMATION SHOWN OR REFERENCED ON ENLARGED AND/OR 1/4" SCALE DRAWINGS WILL GENERALLY NOT BE SHOWN ON THE SMALLER SCALE DRAWINGS.
- B. PURPOSE: IF 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, WALKWAYS TO STAIRS OR HORIZONTAL EXIT, FIRE WALLS, OCCUPANT LOADING, EXIT CALCULATIONS AND AREAS OF REFUGE CALCULATIONS.
- C. 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 OTHER 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.
- D. SHELLED SPACE IS NOT FOR HOSPITAL USE UNTIL PROPOSED LAYOUT IS REVIEWED AND APPROVED BY OSHPD.
- E. 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.S. BUILDING MATERIALS DIRECTORY OR SIMILAR LITERATURE.
- F. 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.
- G. 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.
- H. 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 4 $450.7/200 = 2.25 \text{ min.}$

LEVEL 4 SMOKE COMPARTMENT AND EXITING CALCULATIONS:

COMPARTMENTS & OCCUPANCY	AREA (SF)	OCCUPANT TYPE	LOAD FACTOR PER PERSON	OCCUPANTS	REQUIRED EXIT (IN)	WIDTH REQ. (IN)	WIDTH PROVIDED (IN)	EXITS
A 1/2 OCC.	12,948	SLEEP AREA	120	107.9	HOR.=2 VERT.=3	21.6 32.4	46 44	STAIR #2
TOTAL	12,948			107.9				
B 1/2 OCC.	9,157	SLEEP AREA	120	76.3	HOR.=2 VERT.=3	15.3 22.9	46 44	STAIR #3
TOTAL	9,157			76.3				
C 1/2 OCC.	14,299	SLEEP AREA	120 CO	119.2	HOR.=2 VERT.=3	23.8 35.7	46 44	STAIR #1
TOTAL	14,299			119.2				
D 1/2 OCC.	17,670	SLEEP AREA	120	147.3	HOR.=2 VERT.=3	29.5 44.2	46 73	STAIR #4(46) STAIR #4(44) HOR. EXIT #1(29 OF 44)
TOTAL	17,670			147.3				* HOR. EXITS=MAX. 2/3 REQ'D. EXITS-CBC 1022.1
TOTAL	54,074			450.7		80.2 135.2	184 205	

LOWER FOUR SMOKE COMPARTMENT REFUGE AREA CALCULATIONS:

COMPARTMENTS & OCCUPANCY	AREA (SF)	ADJOINING SMOKE COMP. (SF)	OCCUPANT LOAD	REQ. SF PER OCCUP.	REQ. AGGREGATE AREA (SF)	AGGREGATE AREA PROVIDED (SF)
A 1/2 OCC.	12,948	C SHELL-120	30	3,600	3,600	12,948
B 1/2 OCC.	9,157	D SHELL-148	30	4,440	4,440	9,157
C 1/2 OCC.	14,299	A SHELL-120	30	3,600	3,600	14,299
D 1/2 OCC.	17,670	B SHELL-77	30	2,520	2,520	17,670
TOTAL	54,074			14,160	14,160	

A6 OVERALL LIFE SAFETY PLAN (NICU)

A2 LEGEND