BUILDING DATA

USE OR OCCUPANCY GROUP: GROUP A, DIVISION 3

TYPE OF CONSTRUCTION: TYPE V 1-HR

BASIC ALLOWABLE AREA = 10,500 SF
MULTIPLIED BY 2 FOR SETBACKS = 21,000 SF
MULTIPLIED BY 2 FOR 2 STORIES = 42,000 SF
BUILDING AREA = 11,111 SF COMPLIES
FIRST FLOOR = 4932 SF
SECOND FLOOR = 3035 SF
THIRD FLOOR = 3684 SF

MAXIMUM NUMBER OF STORIES: 2
EXISTING BUILDING IS 3 STORIES.
"VIOLATES CODE REQUIREMENT"
(FIRE SPRINKLER SYSTEM INSTALLED AT THIRD FLOOR AS COMPENSATION FOR ADDITIONAL STORY. ALSO, NOTE THAT THIRD FLOOR LEVEL HAS AT GRADE ACCESS.)

EXTERIOR WALL & OPENING PROTECTION
BEARING AND NON-BEARING WALLS:
TWO HOUR LESS THAN 5' FROM PROPERTY LINE
ONE HOUR ELSEWHERE
OPENINGS:
NOT PERMITTED LESS THAN 5' FROM PROPERTY LINE
PROTECTED LESS THAN 10'

EXISTING BUILDING COMPLIES.

NOTE: NO SEPARATION REQUIRED BASED ON MIXED OCCUPANCY OR AREA.

THE CODE REVIEW COMMENTS ON THESE SHEETS ARE NOT INTENDED TO CERTIFY THAT THE EXISTING BUILDING WILL MEET ALL CODE REQUIREMENTS APPLICABLE TO ITS CHANGE IN OCCUPANCY CLASSIFICATION. (MUCH OF THE CONSTRUCTION WAS COMPLETED PRIOR TO THE SITE REVIEW.) THE REVIEW WAS DIRECTED PRIMARILY AT RESOLVING EXITING AND FIRE RESISTIVE CONSTRUCTION ISSUES. OTHER CODE RELATED ISSUES INCLUDED ARE BY NO MEANS ALL-INCLUSIVE.

KEYED NOTES

1. STAIRS (SECTION 1003.3.3)
FIRST FLOOR TO SECOND FLOOR: CLEAR STAIR WIDTH IS 43½", WHICH IS ½" LESS THAN THE MINIMUM STAIR WIDTH REQUIRED OF 44". AVERAGE RISER HEIGHT IS 7⅛", WHICH IS ⅛" HIGHER THAN THE MAXIMUM OF 7". THE TREAD DEPTH OF 11" MEETS THE CODE REQUIREMENT.
SECOND FLOOR TO THIRD FLOOR: CLEAR STAIR WIDTH IS 41½", WHICH IS 2½" LESS THAN THE MINIMUM STAIR WIDTH REQUIRED OF 44". AVERAGE RISER HEIGHT IS 7⅜", WHICH IS ⅜" HIGHER THAN THE MAXIMUM OF 7". THE TREAD DEPTH OF 11¼" MEETS THE CODE REQUIREMENT.

2. HANDRAILS @ STAIRS (SECTION 1003.3.3.6)
EXISTING HANDRAIL DOES NOT MEET CODE REQUIREMENTS, WHICH ARE AS FOLLOWS:
- ONE HANDRAIL ON EACH SIDE OF STAIR, MOUNTED AT BETWEEN 34" MINIMUM AND 38" MAXIMUM, MEASURED FROM LANDING AND TREAD NOSING TO TOP EDGE OF HANDRAIL.
- ONE HANDRAIL TO EXTEND 12" BEYOND TOP AND BOTTOM RISER.
- HANDRAIL ENDS TO RETURN TO THE WALL OR HAVE ROUNDED TERMINATIONS OR BENDS.

3. RATED DOOR (SECTION 1004.3.4.3.2.1)
DOOR TO BE PART OF A 20-MINUTE RATED DOOR ASSEMBLY, SELF-CLOSING. ASSEMBLY TO INCLUDE SMOKE/DRAFT CONTROL GASKET AT SIDES AND TOP OF DOOR.
DOOR AND FRAME TO BEAR AN APPROVED LABEL IDENTIFYING THE RATING OF THE DOOR ASSEMBLY.

4. EXIT DOOR (SECTION 1003.3.1)
EXIT DOORS TO MEET THESE REQUIREMENTS:
- MINIMUM DOOR SIZE: 3' NOMINAL WIDTH AND 6'-8" NOMINAL HEIGHT.
- FLOOR OR LANDING ON EACH SIDE OF DOOR, NOT LESS THAN ½" LOWER THAN DOOR THRESHOLD FOR ADA ACCESS, 1" MAXIMUM ELSEWHERE. FLOOR OR LANDING TO BE LEVEL, EXCEPT EXTERIOR LANDINGS MAY HAVE A MAXIMUM SLOPE OF 1/4 UNIT VERTICAL TO 12 UNITS HORIZONTAL.
- TYPE OF LOCK OR LATCH: EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE. EXCEPTION: KEY LOCKING HARDWARE MAY BE USED, PROVIDING THERE IS A VISIBLE, LEGIBLE SIGN ON OR ADJACENT TO THE DOOR, STATING "THIS DOOR MUST REMAIN UNLOCKED DURING BUSINESS HOURS."
- PANIC HARDWARE: WHERE USED, ACTIVATING MEMBER MOUNTED BETWEEN MINIMUM 30" AND MAXIMUM 44" ABOVE THE FLOOR.

5. INTERIOR WALL CONSTRUCTION 1-HR (TABLE 7-B, 17-13)
SINGLE LAYER OF 5/8" TYPE 'X' GYPSUM WALLBOARD. STAGGER JOINTS EACH SIDE OF WALL.

6. CEILING/FLOOR CONSTRUCTION 1-HR (TABLE 7-C)
SINGLE LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD APPLIED AT RIGHT ANGLES TO JOIST @ 16" O.C. OR
TWO LAYERS 5/8" TYPE 'X' GYPSUM WALLBOARD APPLIED AT RIGHT ANGLES TO JOIST OR TRUSS @ 24" O.C. FACE LAYER JOINTS OFFSET 24" FROM BASE LAYER JOINTS.

7. PROTECTION OF STEEL COLUMNS (TABLE 7-A)
1-HR COLUMN PROTECTION REQUIRED.

8. PROTECTION OF STEEL BEAMS
ENCASE STEEL BEAM IN 2 - LAYERS OF 5/8" TYPE 'X' GYPSUM BOARD ON U-SHAPED BRACKETS (TABLE 7-A, 2-4.1). OR
OTHER 1-HR PROTECTION SYSTEM.
NOTE: 1-HR GYPSUM BOARD CEILING TO BE FIRE-CAULKED AROUND ALL PENETRATIONS. METAL DUCT-WORK REQUIRED W/ FIRE DAMPERS AT SOFFIT PENETRATIONS.

9. HVAC DUCTS, REGISTERS AND GRILLES
PROVIDE FIRE DAMPERS, AT CEILING LINE, FOR HVAC REGISTERS AND GRILLES.
NOTE: ALL DUCT PENETRATIONS INTO CORRIDOR CEILING OR WALL AREAS REQUIRE FIRE DAMPERS.

10. WALL AND CEILING PENETRATIONS
PROVIDE FIRE-RATED FOAM SEALANT AT THRU-THE-WALL AND THRU-CEILING PENETRATIONS, INCLUDING ELECTRICAL CONDUITS, PIPING, HVAC DUCTS. BEFORE APPLYING SEALANT, MINIMIZE PENETRATION OPENING W/ 2X BLOCKING AND 5/8" TYPE 'X' GYPSUM BOARD.

11. ELECTRICAL PANELS PROVIDE 36" FRONT CLEARANCE AT PANELS.

12. 1-HR FIRE RESISTIVE SUSPENDED CEILING
SUSPENDED CEILING SYSTEM COMPLYING W/ 1-HR RATED SYSTEM REQUIREMENT. COMPLY WITH ALLOWABLE AREA FOR PENETRATIONS PER 100 SF OF TILE AREA. PROVIDE FIRE-RESISTIVE 'TENT' OVER AND AROUND LIGHT FIXTURE. FIRE DAMPERS REQUIRED AT DUCT PENETRATIONS.
NOTE: METAL DUCT WORK REQUIRED.

13. CEILING AND CMU WALL: AT JUNCTION BETWEEN SUSPENDED CEILING TRACK OR GYPSUM BOARD CEILING AND CMU WALL, FILL GAPS CREATED BY CMU GROUT JOINTS WITH SEALANT.

14. USEABLE SPACE UNDER STAIRS (SECTION 1003.3.3.9)
1-HR FIRE RESISTIVE CONSTRUCTION
CEILING: SIMILAR TO KEYED NOTE 6
WALLS: SIMILAR TO KEYED NOTE 5
DOOR: DOOR TO BE SELF-CLOSING, TIGHT-FITTING, SOLID WOOD, 1¾" THICKNESS OR DOOR AND DOOR FRAME W/ A 20-MINUTE RATED ASSEMBLY. (SECTION 712)

15. ADA REQUIREMENT: PLATFORM ACCESSIBILITY
PROVIDE PORTABLE RAMP. (SECTION 1104B.3.1, EXCEPTION 1.)

16. EXIT WIDTH (SECTION 1004.3.3.2)
DOORS IN ANY POSITION CANNOT REDUCE THE REQUIRED EXIT WIDTH BY MORE THAN 50%

KEYED NOTES - ADA REQUIREMENTS

A. CLEARANCES - DOOR (FIGURE 11B-26A & FIGURE 11B-26B)
- FRONT APPROACH, PUSH SIDE: 48" WIDE X 48" DEEP MIN. MEASURED FROM DOOR HINGE.
FRONT APPROACH, PULL SIDE: 54" WIDE X 60" DEEP MIN. MEASURED FROM DOOR HINGE.
- HINGE APPROACH, PUSH SIDE: 54" WIDE MIN. X 44" DEEP MIN. MEASURED FROM LATCH.
HINGE APPROACH, PULL SIDE: 60" WIDE MIN. X 60" DEEP MIN. MEASURED FROM HINGE.
- LATCH APPROACH, PUSH SIDE: 60" WIDE MIN. X 44" DEEP MIN. MEASURED FROM HINGE.
LATCH APPROACH, PULL SIDE: 60" WIDE X 60" DEEP MIN. MEASURED FROM HINGE.

B. PLUMBING FIXTURES REQUIREMENT (FIGURE 11B-1A & FIGURE 11B-1D)
- WC: CENTERLINE 18" FROM SIDE WALL, SEAT = 17" - 19" ABOVE FINISHED FLOOR.
- GRAB BARS: 42" SIDE GRAB BAR, 33" ABOVE FINISHED FLOOR AND 12" MAX. FROM BACK WALL. 36" BACK GRAB BAR, 33" ABOVE FLOOR AND 6" FROM SIDE WALL.
- TOILET PAPER DISPENSER: HORIZONTAL CENTERLINE 12" MAX. TO FRONT OF TOILET, VERTICAL CENTERLINE 19" MIN. ABOVE FINISHED FLOOR.
- WALL-MOUNTED LAVATORY OR COUNTERTOP MOUNTED LAVATORY: 17" MIN. DEPTH, 34" FROM FINISHED FLOOR TO TOP OF LAVATORY, 29" FROM FINISHED FLOOR TO BOTTOM EDGE OF LAVATORY OR COUNTERTOP APRON. PIPING TO BE LOCATED 6" MAX. FROM BACK WALL AND 9" MIN. ABOVE FINISHED FLOOR.
NOTE: ALL DISPENSERS - 40" MAX. TO HIGHEST OPERABLE PART FROM FINISHED FLOOR.

C. RAMP (SECTION 1133B.5)
- HANDRAIL: CONTINUOUS FULL LENGTH OF RAMP, EXTENDING 12" PAST THE TOP AND BOTTOM OF THE RAMP, W/ RETURNED ENDS. GRIP PORTION TO BE 1¼" MIN. TO 1½" MAX. HANDRAIL MOUNTED 34" TO 38" ABOVE THE RAMP SURFACE.
- GUARDRAIL: GUARDRAIL REQUIRED WHEN FLOOR OF RAMP OR LANDING IS 30" ABOVE ADJACENT GRADE OR FLOOR. GUARDRAIL TO BE MINIMUM 42" HIGH AND WITH MAXIMUM 4" OPENINGS.
- WHEEL GUIDES: PROVIDE A MINIMUM 2" HIGH GUIDE CURB AT EACH SIDE OF THE RAMP.

OCCUPANT LOADS

ROOM	SQUARE FOOTAGE	OCCUPANT LOAD FACTOR	OCCUPANT LOAD
FOYER 101	563	7	80 L
HALL 102	64	100	1
SANCTUARY 103	1449	7	207 L
PLATFORM 103A	287	15	19
WOMEN 104	200	--	--
MEN 105	187	--	--
STORAGE 105A	40	300	1
BOOK STORE 106	251	30	8
HALL 107	85	100	1
OVERFLOW 108	395	7	56 L
STORAGE 108A	28	300	1
OFFICE 109	90	100	1
STORAGE 110	136	300	1
NURSERY 111	221	35	6
PRAYER ROOM 112	128	7	9
HALL 113	63	100	1
UTILITY SPACE 114	216	300	1
HALL 115	60	100	1
STAIR S-01	55	100	1

NOTE:
1. 2 EXITS REQUIRED FROM ROOM. EXITS IN SANCTUARY 103 AND OVERFLOW 108 ARE SLIGHTLY LESS THAN REQUIRED DISTANCE APART.

EXITS REQUIRED - 2 REQUIRED

FLOOR OCCUPANT LOAD = 395

NOTE: NUMBER OF EXITS REQUIRED PER SECTION 1004.2.3.2 AND TABLE 10-A.

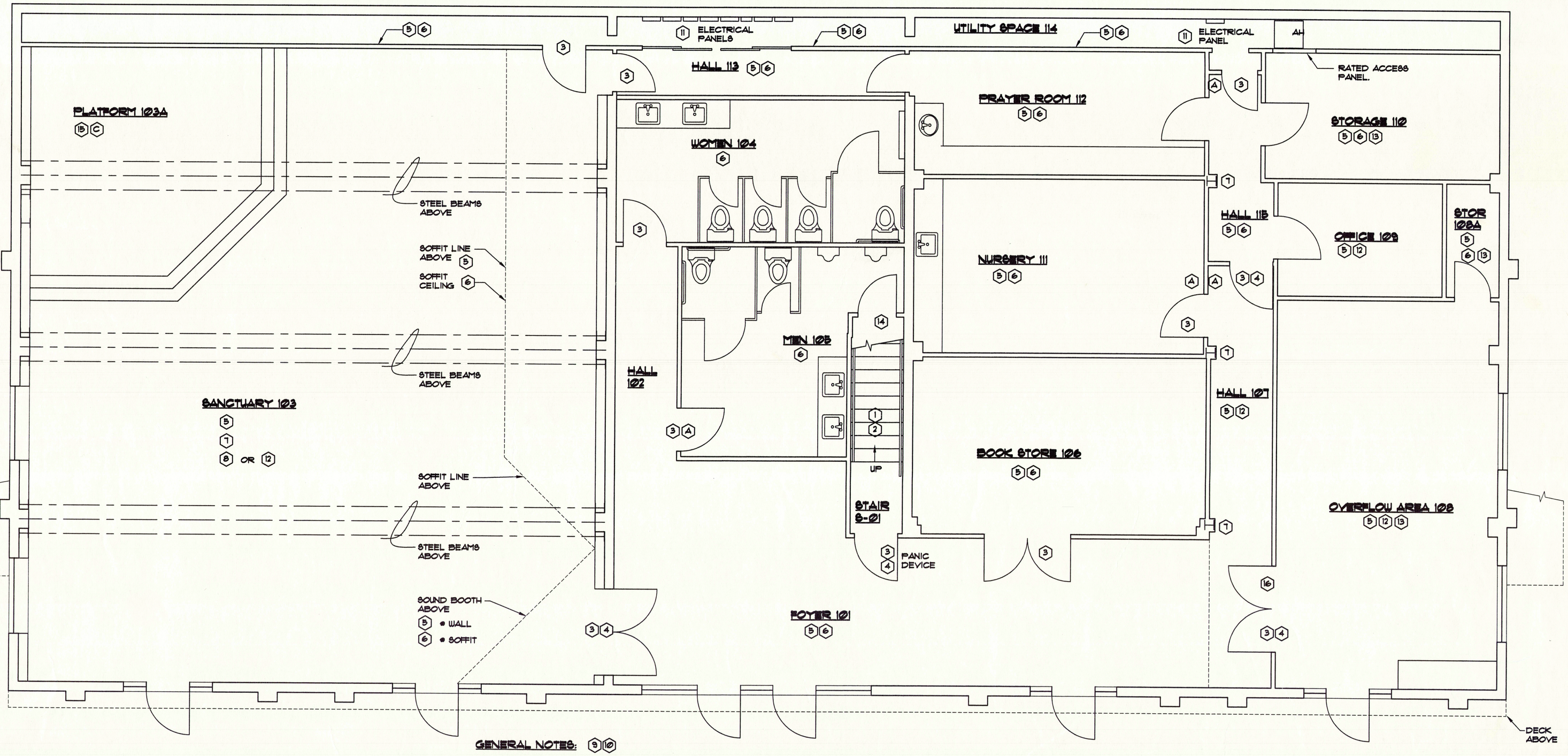
SANITARY FIXTURES : MEETS REQUIREMENTS

BASED ON AN A-3 OCCUPANT LOAD OF 76 TOTAL, 38 MALES AND 38 FEMALES:
(1) WC AND (1) LAVATORY REQUIRED FOR EACH GENDER.

BASED ON A B AND E OCCUPANT LOAD OF 12 TOTAL, 6 MALES AND 6 FEMALES:
(1) WC AND (1) LAVATORY REQUIRED FOR EACH GENDER.

TOTAL FOR FLOOR: (2) WC AND (2) LAVATORIES FOR EACH GENDER.

NOTE: OCCUPANT LOAD AND FIXTURES REQUIRED ARE BASED ON TABLE A-29-A.



GENERAL NOTES: 9 10

1 FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

NORTH

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STATE OF CALIFORNIA

CALVARY CHAPEL OF THE REDWOODS

EXISTING FACILITY CODE REVIEW
3180 S. REED HAIGHT DRIVE
SMITH RIVER CALIFORNIA

JULY 2004

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