	Room		Lead in Doors & Control Windows (mm)	Lead on Floor Slabs (mm)	Lead on Ceiling Slabs (mm)	Height of Lead in Partitions			
1	Radiographic Fluoroscopic Room (Ceiling Mounted X—Ray) Special Procedures Diagnostic and Tele—Fluoroscopy (Ceiling Mounted X—Ray)		1.5 mm (3 mm for Door to Dark Room	None on 100 mm (min.) Normal Weight Concrete	None	2100 mm (7")			
2	Deep Therapy Room: Conventional Cobalt Betatrons Linear Accelerators	Cobalt Betatrons							
3	Cystoscopic Room	1.5mm (3mm for on Partition on Dark Room Side)	1.5 mm (3 mm for Door to Dark Room	None on 100 mm (min.) Normal Weight Concrete	None	2100 mm (7")		KOOMS	
4	Animal X—Ray, Animal Research, Radiography and Fluoroscopy		1.5mm (3mm for on Partition on Dark Room Side)	1.5 mm (3 mm for Door to Dark Room	None on 100 mm (min.) Normal Weight Concrete	None	LINING IN X-RAY	IN X-RAY	
5	Dental X—Ray Area Oral Surgery Room General Treatment Operatories	1 mm	1 mm	None	None	2100 mm (7")		/ LEAD	
6	Dental X—Ray Room (Portable 50/65 KVP)	None	None	None	None	None	DETAIL TITLE		SCALE .
7	Fluoroscopic Rooms, Vertical or Tilt Type, Gastroenterology (No Radiography)	1.5 mm (No Control Booth Required)	1.5 mm	None on 100 mm (min.) Normal Weight Concrete	None	2100 mm (7")		UC I	SCA SCA
8	Operating Room Including Animal Operating (Portable X-Ray), Cardiac and Neurosurgical Operating Room (Portable X-Ray)	(Except 3 mm on	None (Except 3 mm on Dark Room Side)	None	None	None			
9	Cardiac Catheterization in cardiopulmonary Clinic (Fixed Equipment) Operating Room (Fixed Equipment)	1.5mm (3mm for on Partition on Dark Room Side)	1.5 mm (3 mm for Door to Dark Room	None on 100 mm (min.) Normal Weight Concrete	None	2100 mm (7")		: of fairs	
10	Ultrasound & Thermography	None	None	None	None	None		Department of Veterans Affairs	
GEN	NERAL NOTES:							Depá Vete	
1	ALL RADIOLOGY FACILITY PROJECTS WILL BE REVIEWED BY TH	IF VA HEALTH PHYSICS							

- TO PHOTOGRAPHIC LABS SHOULD BE REVIEWED BY A REGISTERED PHYSICIST.

MILLI- METERS	DECIMALS OF AN INCH	FRACTIONS OF AN INCH	LBS. PER SQ. FT	LEAD GLASS EQUIVALENT
0.396	0.0156	1/64"	1	1 PLY APPROX. 1/4"
0.792	0.0312	1/32"	2	1 PLY APPROX. 1/4"
1.000	0.0391	5/128"	2 1/2	1 PLY APPROX. 1/4"
1.191	0.0469	3/64"	3	1 PLY APPROX. 1/4"
1.587	0.0625	1/16"	4	1 PLY APPROX. 1/4"
1.984	0.0781	5/64"	5	1 PLY APPROX. 1/4"
2.380	0.0937	3/32"	6	1 PLY APPROX. 1/4"
3.175	0.1250	1/8"	8	2 PLY APPROX. 1/2"
3.967	0.1562	5/32"	10	2 PLY APPROX. 1/2"
4.763	0.1875	3/16	12	3 PLY APPROX. 3/4"
5.555	0.2187	7/32"	14	3 PLY APPROX. 3/4"
6.350	0.2500	1/4"	16	4 PLY APPROX. 1"
7.142	0.2812	9/32"	18	4 PLY APPROX. 1"
8.465	0.3333	1/3"	20	5 PLY APPROX. 1 1/4"
9.525	0.3750	* 3/8"	22 1/2	6 PLY APPROX. 1 1/2"
10.160	0.4000	2/5"	24	6 PLY APPROX. 1 1/2"
10.317	0.4062	13/32"	25	6 PLY APPROX. 1 1/2"
11.112	0.4375	* 7/16"	28	7 PLY APPROX. 1 3/4"
12.700	0.5000	1/2"	30	7 PLY APPROX. 1 3/4"
14.267	0.5625	* 9/16"	34	8 PLY APPROX. 2"
15.876	0.6250	5/8"	38	9 PLY APPROX. 2 1/4"
16.934	0.6667	2/3"	40	9 PLY APPROX. 2 1/4"
19.050	0.7500	3/4"	44	10 PLY APPROX. 2 1/2"
20.637	0.8125	* 13/16"	48	11 PLY APPROX. 2 3/4"
22.225	0.8750	7/8"	52	12 PLY APPROX. 3"
25.400	1.000	1"	60	14 PLY APPROX. 3 1/4"

GENERAL NOTES:

- 1. SHEET LEAD IN THIS TABLE GIVEN IN COMMERCIAL THICKNESSES EXCEPT AS NOTED.
- 2.* THESE SPECIAL THICKNESSES MAY BE ROLLED IF IN SUFFICIENT QUANTITIES

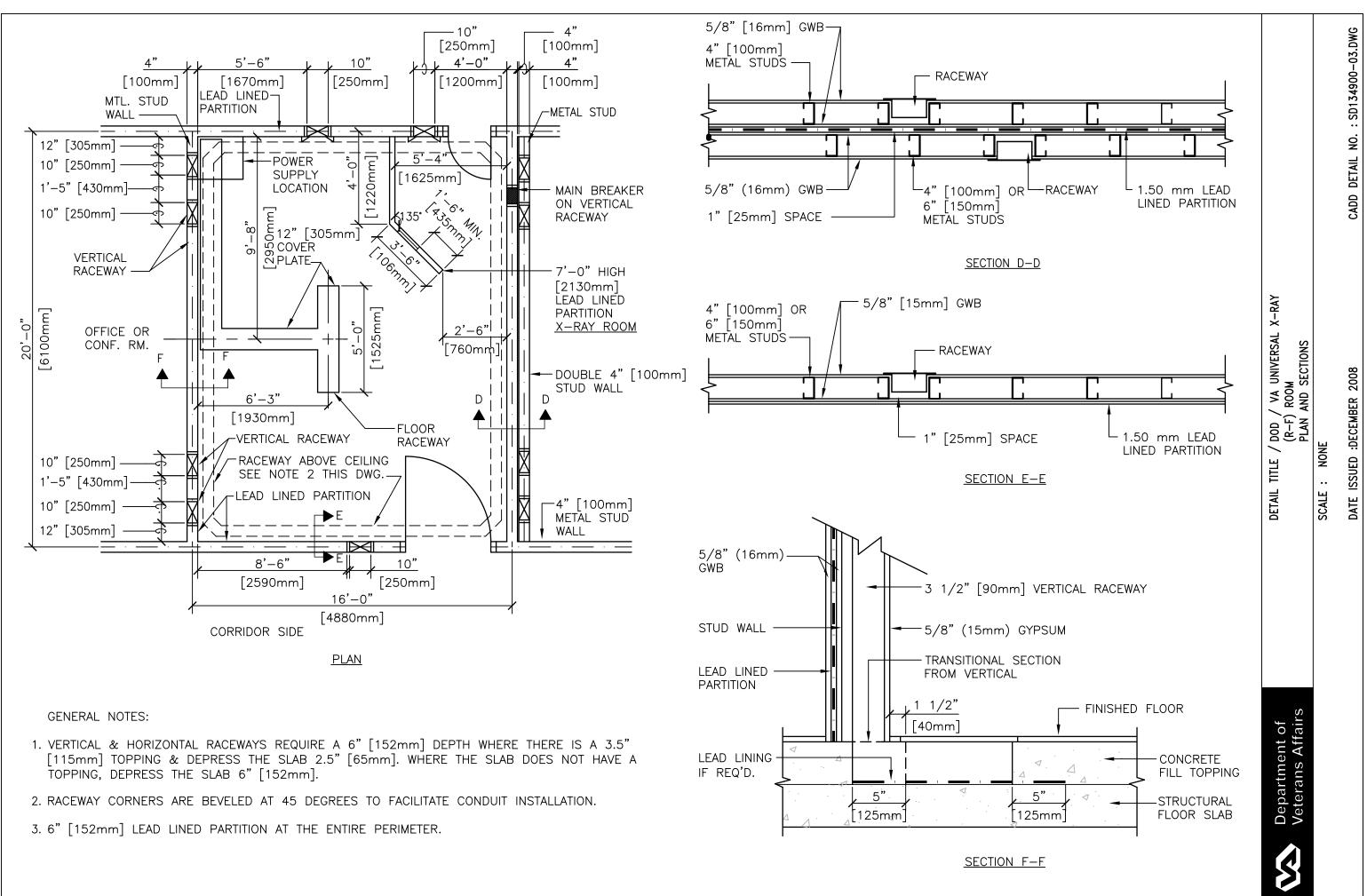
Department of Veterans Affairs

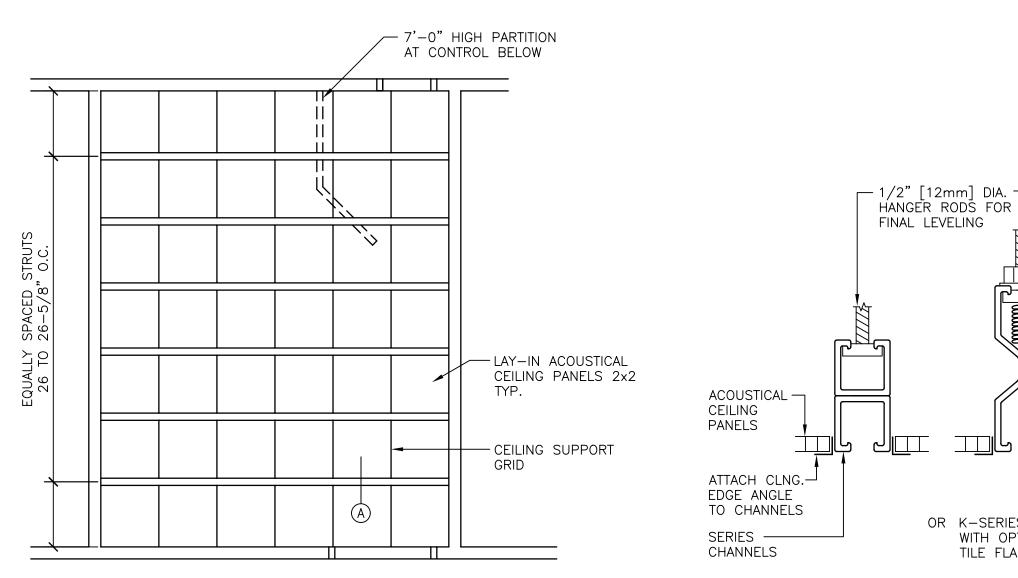
DETAIL TITLE / LEAD SHEET THICKNESS & WEIGHT

SCALE : NONE

DATE ISSUED :DECEMBER 2008

CADD DETAIL NO. : SD134900-02.DWG



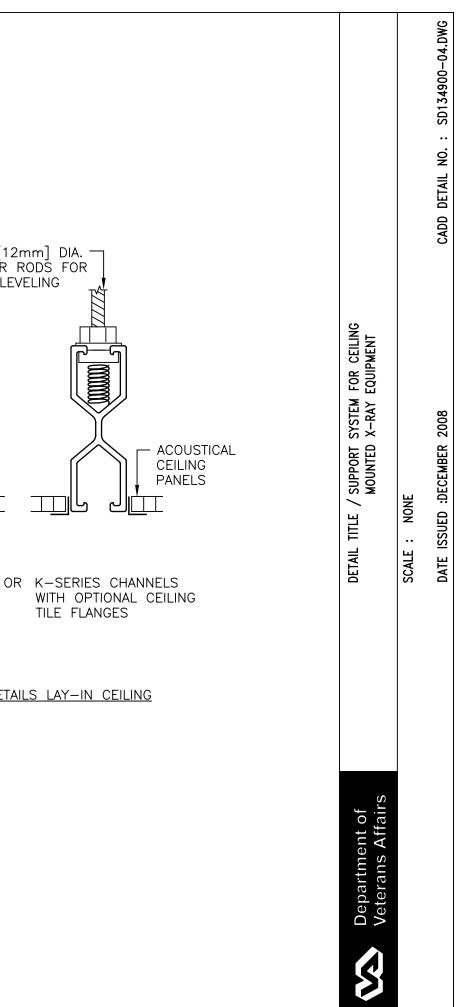


REFLECTED CEILING PLAN UNIVERSAL X-RAY ROOM

A SUPPORT STRUT DETAILS LAY-IN CEILING

GENERAL NOTES:

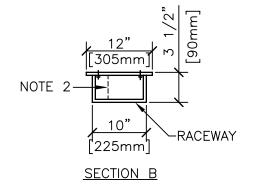
PROVIDE SUSPENDED GRID OF STRUT CHANNELS TO SUPPORT X-RAY MACHINE RAILS. A/E SHALL DESIGN SUPPORT SYSTEM TO SUIT BUILDING STRUCTURE. SUPPORT RAILS FROM STRUCTURAL BEAMS OR JOISTS (PROVIDE INTERMEDIATE FRAMING AS NECESSARY). DO NOT SUPPORT FROM METAL DECK, CONCRETE SLABS, OR WALK-ON (INTERSTITIAL) DECKS. BRACE SUPPORT SYSTEM FOR LATERAL LOADS FROM MOVING EQUIPMENT AND SEISMIC. PROVIDE LIGHTING AND HVAC PER VA DESIGN MANUALS.

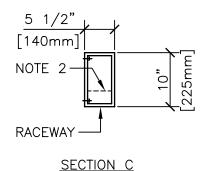


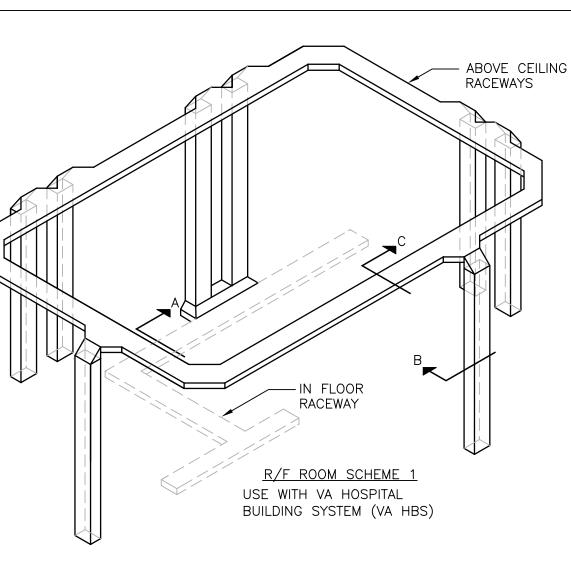
- 3. LOCATE RACEWAY ON THE UNDERSIDE OF THE VA HBS WALK-ON DECK.
- 1. REFER TO STANDARD DETAILS 13 49 00-1 & 13 49 00-2 FOR LEAD LINING REQUIREMENTS.

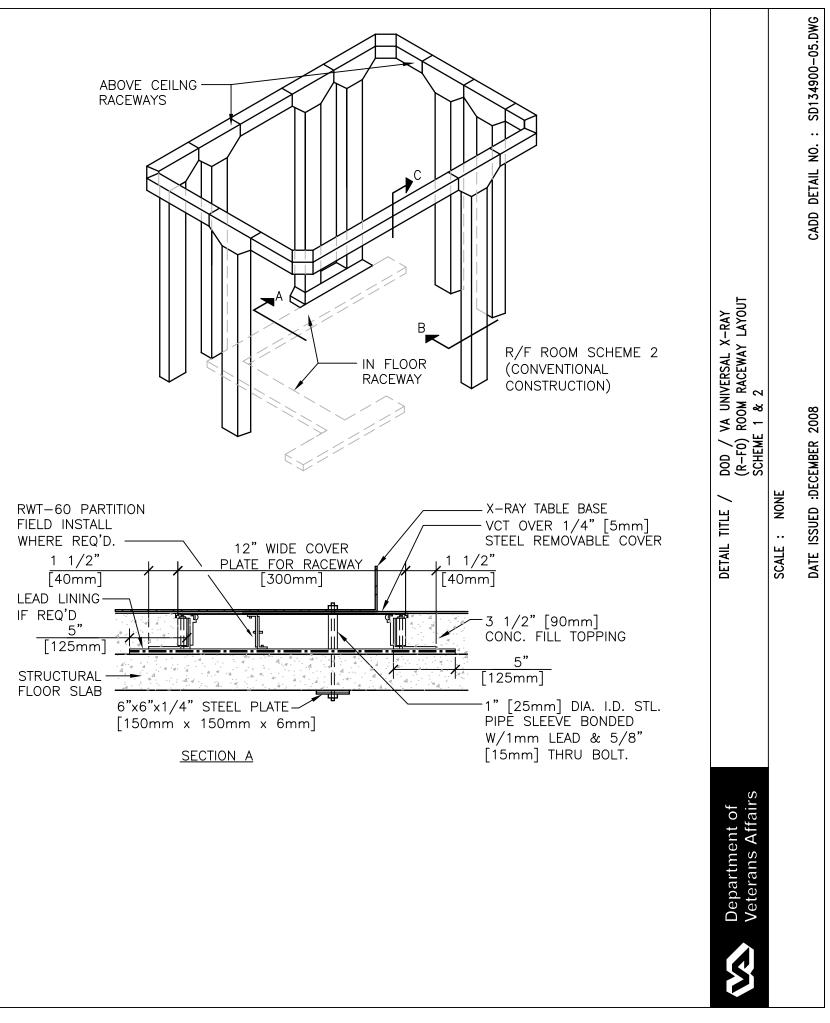
- GENERAL NOTES:

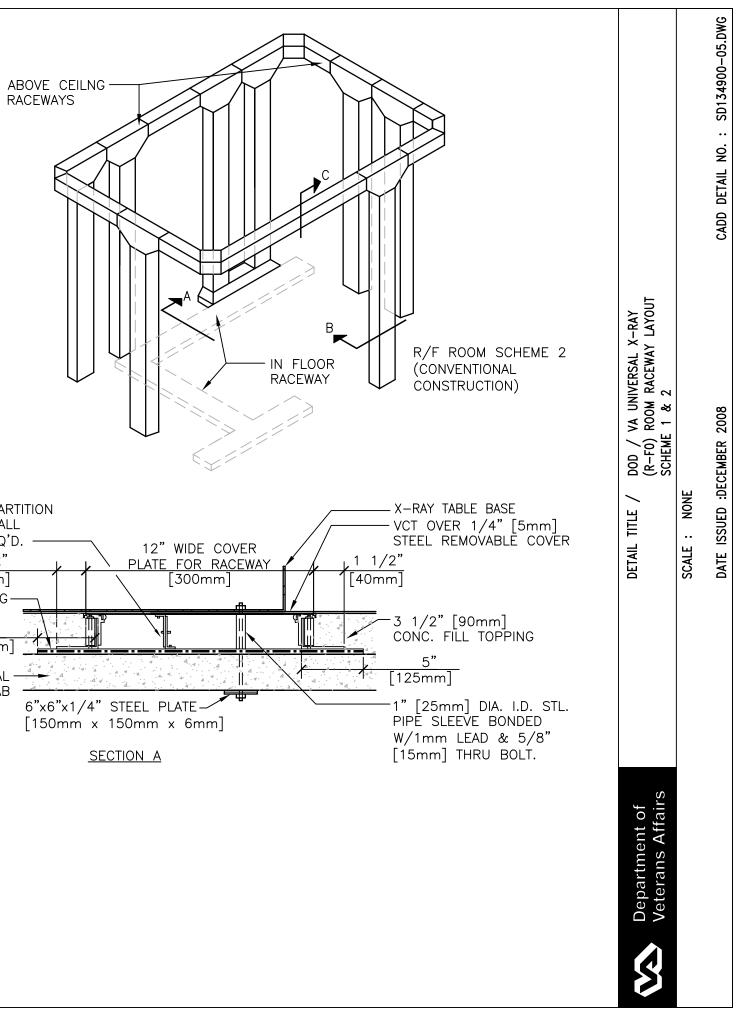
2. INSTALL DIVIDERS IN RACEWAYS IF REQUIRED.

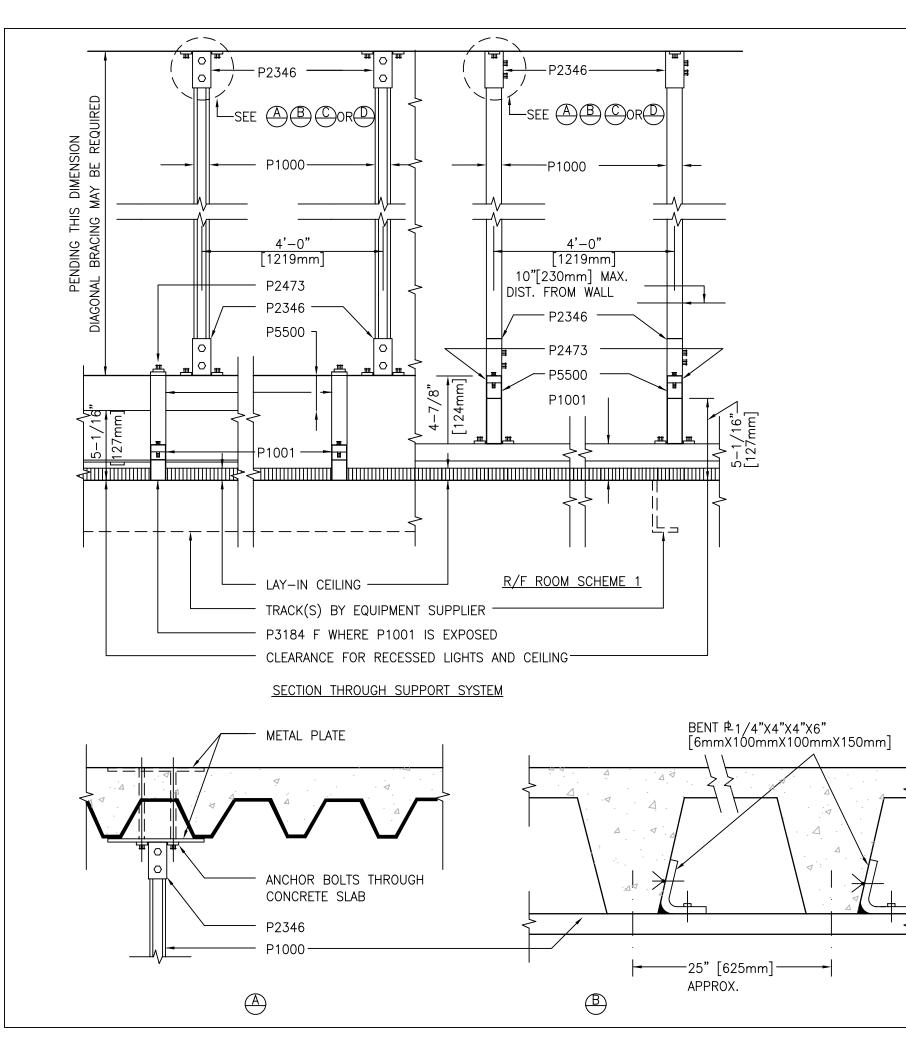


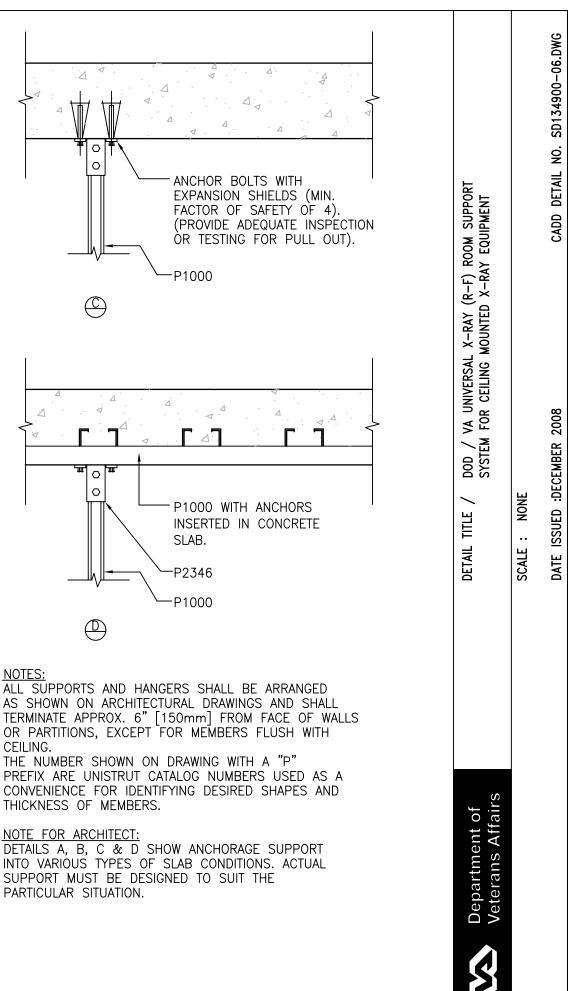












NOTES:

THICKNESS OF MEMBERS.

NOTE FOR ARCHITECT: PARTICULAR SITUATION.