"IOR Certification Code/Plans Questions" Part 1 Architectural















- Class A 10 Questions
- Class B 12 Questions





Sample Architecture Question

In Hospitals, which one of the following is <u>not</u> required to be included within a dressing room for a nuclear medicine space?

- a) nurse call station
- b) seat or bench
- c) mirror
- d) provisions for hanging clothes

How to look for the response?







Sample #2- The question indicates nuclear medicine space

AT THE CHAPTER 1224

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1224.33.4.5 On-call room(s). Provisions shall be made to accommodate on-call sleeping room(s) for physicians and/or medical staff within the Emergency Department.

1224.33.4.6 Police and press room. Provisions shall be made to accommodate police briefing/debriefing and press releases. This may be located outside the Emergency Department.

1224.33.5 Other space considerations.

1224.33.5.1 Observation units. Observation rooms for the monitoring of patients up to 24 hours may be provided as a distinct unit within, the emergency department. If provided the unit shall have the following:

- 1. Handwashing stations shall be provided in each patient room and for each four treatment stations, and for each major fraction thereof. These shall be uniformly distributed to provide equal access from each patient station. Handwashing stations shall be directly accessible to nurse stations and patient care areas.
- 2. Each patient station shall have a minimum of 120 square feet (11.15 m2) of clear floor area including space at each bedside for visitors and provision for visual privacy from casual observation by other patients and visitors.
- 3. One toilet room shall be provided for each six treatment stations and for each major fraction thereof.
- 4. An administrative center/nurse station, in compliance with Section 1224.4.4.2, positioned to allow staff to observe each patient care station or room
- 5. A nourishment area in compliance with Section 1224.4.4.5.

1224.34 NUCLEAR MEDICINE

1224.34.1 General. If nuclear medicine is provided, the following shall be provided:

1224.34.1.1 Radiation protection. A certified physicist shall specify the type, location and amount of radiation protection to be installed in accordance with final approved department layout and equipment selection. Radiation protection requirements shall be incorporated into the construction documents and comply with Chapter 31C and the requirements of California Radiation Control Regulations, California Code of Regulations, Title 17, Division 1, Chapter 5, and Subchapter

1224.34.1.2 Nuclear medicine room. Shall be sized to accommodate the equipment and a gurney.

When provided, the following facilities shall meet the requirements below.

1224.34.1.2.1 Scintigraphy (Gamma Camera) Facilities. Shall include the following:

INTERIOR ENVIRONMENT

- 1. Scanner room. The scanner room shall provide a minimum clearance of 4 feet (1218 mm).at each side and the foot of the table.
- 2. Handwashing stations shall be provided throughout the gamma camera suite at locations of patient contact and at locations where radiopharmaceutical materials are handled, prepared, or disposed of.

1224.34.1.2.2 Positron Emission Tomography (PET). Shall include the following:

- 1. Scanner room shall provide a minimum clearance of 4 feet (1218 mm) at each side and the foot of the table. Additional space shall be provided when PET is combined with CT, and include compliance with Section 1224.18.3 and shielding requirements in Section 1224.34.1.1.
- 2. Cyclotron room. Where radiopharmaceuticals are prepared on-site, a cyclotron shall be provided. Cyclotron facilities shall be located in access-restricted areas. Shielding requirements for cyclotron facilities shall comply with Section 1224.34.1.1.
- 3. Control room. A control room shall be provided with a full direct view of the patient in the PET scanner.
- 4. Patient uptake/cool-down room. A shielded room with access to a dedicated patient toilet. to accommodate radioactive waste, and lavatory shall be provided.
- 5. Handwashing stations shall be provided throughout the PET suite at locations of patient contact and at locations where radiopharmaceutical materials are handled, prepared, or disposed of.
- 6. Pre-procedure patient care and recovery area shall be provided to accommodate at least two stretchers. This area shall comply with Section 1224.34.2.6.
- 7. Computer equipment room shall be provided in support of the equipment provided.
- 8. Contaminated (hot) soiled holding shall be provided and operationally integrated to minimize incidental exposure to ionizing radiation.

1224.34.1.2.3 Single-Photon Emission Computed Tomography (SPECT) Facilities. When provided shall include the following:

1. Scanner room. Scanner room shall provide a minimum clearance of 4 feet (1218 mm) at each side and the foot of the table.

In Hospitals, which one of the following is not required to be included within a dressing room for a nuclear

medicine space?

1224.34.2.7 Patient dressing rooms. Patient dressing rooms shall be immediately accessible to the waiting area and procedure rooms. Each dressing room shall include a seat or bench, a mirror, and provisions for hanging patients' clothing and for securing valuables.

Response:

- nurse call station a)
- b) seat or bench
- C) mirror
- d) provisions for hanging clothes







1224.34.2.3 Consultation. A consultation area may be provided.

2. Control room. A control room shall be pro-

3. Computer equipment room shall be provided

4. Handwashing stations shall be provided throughout the SPECT suite at locations of

patient contact and at locations where radio-

pharmaceutical materials are handled, pre-

in support of the equipment provided.

1224.34.1.3 Radiopharmacy. If radiopharmaceutical

preparation is performed, an area adequate to house a

radiopharmacy shall be provided with appropriate

shielding. This area shall include adequate space for

storage of radionuclides, chemicals for preparation,

dose calibrators, and record keeping. If preprepared

materials are used, storage and calculation area may

be considerably smaller than that for on-site prepara-

tion. Space shall provide adequately for dose calibra-

tion, quality assurance, and record keeping. The area

may still require shielding from other portions of the

1224.34.2 Support areas for nuclear medicine services.

Nuclear medicine area when operated separately from the

1224.34.2.1 Entrance. Space shall be adequate to per-

mit entry of gurneys, beds, and able to accommodate

imaging equipment, electronic consoles, and if present,

imaging department shall provide the following:

the SPECT scanner.

pared, or disposed.

vided with a full direct view of the patient in

INTERIOR ENVIRONMENT

facilities.

supplies.

computer terminals.

1224.34.2.4 Waiting. Waiting areas shall be provided out of traffic, under staff control. If the department is routinely used for outpatients and inpatients at the same time, separate waiting areas shall be provided with screening or visual privacy between the waiting

1224.34.2.5 Dose administration area. Provide a dose administration area that is immediately accessible to the preparation area. Since as much as several hours may elapse for the dose to take effect, the area shall provide for visual privacy from other areas.

1224.34.2.6 Pre-procedure/holding area. A pre-procedure/holding area for patients on gurneys or beds shall be provided out of traffic and under control of staff and may be combined with the dose administration area with visual privacy between the are

1224.34.2.7 Patient dressing rooms. Patient dressing rooms shall be immediately accessible to the waiting area and procedure rooms. Each dressing room shall include a seat or bench, a mirror, and provisions for hanging patients' clothing and for securing valuables.



- Class A 13 Questions
- Class B 7 Questions





Architectural Plan Questions

- Let's analyze the questions with the correct responses...
- How to read/interpret the question
- How to arrive to a response (sometimes it is easy, sometimes it is not easy)
- Remember: Plans are not perfect. And this is why Request For Information (RFI) exist during construction





Table of contents

ASI#

- Drawing Content (Original set, RFI, ASI, ACD)
- delta symbol RFI # ASI # ACD #

RFI#

- Depending on the size and complexity of the project
- the information provided on the fire and life safety drawings should provide a clear description of how the project complies with the various provisions of the CBC. Some of the general information for the project may also appear on the drawing title sheet.

ACD#

• Also, much of the specific information will be contained in the body of drawing details and schedules.





Table of contents

DECIONATOD	
DESIGNATOR	
	Cover Sheet
G	General
Н	Hazardous Materials
V	Survey / Mapping
В	Geotechnical
С	Civil
L	Landscape
S	Structural
А	Architectural
I	Interiors
Q	Equipment
F	Fire Protection
Р	Plumbing

D	Process
Μ	Mechanical
Е	Electrical
W	Distributed Energy
Т	Telecommunications
R	Resource
Х	Other Disciplines
Z	Contractor / Shop Drawings
0	Operations





Sheet Types

DESIGNATOR	NAME
0	General: Symbol legend, abbreviations, general notes
1	Plans
2	Elevations
3	Sections
4	Large Scale Drawings: plans, elevations, sections (NOT details)
5	Details
6	Schedules and Diagrams
7	User Defined
8	User Defined
9	3D drawings: isometric, perspective, photos

















What to remember

- Notes
- Key Words
- Typical Details
- General Notes
- Look into all the disciplines





Example #1





What is the total number of luminaries connected to the emergency electrical system located within patient room 2B12?

What do you need to look for: 2B12 and find it in the electrical sheet because you need to look also for the legend Identify the emergency/critical light fixture.

Note: **2**B12 location is on the 2nd floor.









Inspection Services Unit















Example #2





- A. building wrap, stucco over metal lath
- B. ¹/₂" exterior sheathing, building wrap, stucco over metal lath.
- C. 5/8" WP gypsum, building wrap, stucco over metal lath
- D. ¾" cementitious board, plaster finish

Where is the exterior screen wall framing surrounding RTU equipment? How many RTU are there in the project? 5 Where the detail for screen wall could be?





















- A. building wrap, stucco over metal lath
- B. ¹/₂" exterior sheathing, building wrap, stucco over metal lath.
- C. 5/8" WP gypsum, building wrap, stucco over metal lath
- D. ¾" cementitious board, plaster finish

Options: Look into all the drawings for a call out like this







- A. building wrap, stucco over metal lath
- B. ¹/₂" exterior sheathing, building wrap, stucco over metal lath.
- C. 5/8" WP gypsum, building wrap, stucco over metal lath
- D. ¾" cementitious board, plaster finish

Options: Or look into Building Section and Roof Details until you find the Roof Screen Wall



Inspection Services Unit



- A. building wrap, stucco over metal lath
- B. ¹/₂" exterior sheathing, building wrap, stucco over metal lath.
- C. 5/8" WP gypsum, building wrap, stucco over metal lath
- D. ¾" cementitious board, plaster finish



Then, you are finally into the detail and you can see the actual sequence of installation



Inspection Services Unit



Example #3







First thing to do is to find the room. You need to look for interior elevations. So, where can you find it?















Example #4





The framed header assembly for door No. 1B03B shall consist of _____.

A. 2-6" x 18 ga. studs with 2-6" x 18 ga. Tracks
B. 2-4" x 18 ga. studs with 2-4" x 18 ga. Tracks
C. 2-6" x 18 ga. studs with 3-6" x 18 ga. Tracks
D. 2-4" x 18 ga. studs with 3-4" x 18 ga. tracks

First of all, you need to look into the door schedule, to see where the header detail is located













	DOOR NUMBER	TYPE	WIDTH	HEIGHT 6'-8"	НЕІСНТ 7'-0"	PAIR	ALUMINUM	HOLLOW METAL	SOLID CORE WOOD	HOLLOW CORE WO	WDOD W/ PLASTIC	TEMPERED GLASS	INSULATED GLASS	WIRED GLASS	DOUBLE EGRESS	SOLID WOOD BI-FO	20 MINUTE LABEL	B LABEL 1 HR	C LABEL 45 MIN.	B LABEL 1 1/2 H	"S" SMOKE SEAL	TYPE	HOLLOW METAL	ALUMINUM	goow	HEAD	JAMB	SILL	FROVIDE DRY CONTACT IN FRAME-COORDINATE W/	THRESHOLD	3/4" UNDERCUT	HARDWARE SET NU	DOOR NUMBER	345678	TIED INTO FIF MAGNETIC LOI ELECTRIC STR AUTOMATIC OI CARD READER LIGHT SEALS REMOTE LOCK	re alari CK 1KE Peration 1 - Coc 1 - Coc	M N DRD. WIT SE	TH SECURITY	
	14014	D3	3'_8"*		۵	8	0	1.2	L.	l .	1	6	-							1.1			l	6	1.	DH3	D.I.3A	053		۵		1	14014	51	VEATHERSTRIP	54 - E			٦.
	LIND OF	1 11-	7. 9.*			Ş	1.5	<u>,</u>	н.		V	Г., <u>с</u>	ł.		V						8	UE	9			VIIU	1000					14	1 ROPA	2	de la c		e de	si et	1
Ç	1B03B	D1	3'-8"*		0						1		9			1994 1000		-				D		0		DH8	DJ2A	DS1		0		1	1B03B	336	WEATHERSTRIP		er efter er efter	N. gri	
	1B03C	NL	4'-0"		0			1 		-	0		÷.,	0		-			1.2	ć	0	S	0		÷.,	DH5	DJ5			*		15	1B030		문화 이 문	de P	1 - A	la Maria (se	

Then go to Door Details (A7.51 from Master Drawing Index). Look for <u>DH-8</u> for Head detail. Look also for the <u>Width</u> of the door (3'-8")

This information directs you to S4.4





The framed header assembly for door No. 1B03B shall consist of _____.

A. 2-6" x 18 ga. studs with 2-6" x 18 ga. Tracks
B. 2-4" x 18 ga. studs with 2-4" x 18 ga. Tracks

C. 2-6" x 18 ga. studs with 3-6" x 18 ga. Tracks D. 2-4" x 18 ga. studs with 3-4" x 18 ga. tracks

 \checkmark

Now that you are on S4.4, look for the Header Schedule.

	HEADER	SCHEDULE	
ROUGH OPENING	MEMBERS	BUILT-UP SECTION NOTES	
0'-0" TO 6'-4	2—6", 18 Ga STUDS W/2—6", 18 Ga TRACKS		
6'-5" TO 8'-4"	2—6", 18 Ga STUDS W/2—6", 18 Ga TRACKS		
8'-5" TO 13'-0"	2—6", 18 Ga STUDS W/3—6", 14 Ga TRACKS		
NOTE: 1.) ALL 2.) TRAC 3.) STUD 4.) FASTI FOR	MEMBERS TO HAVE 33 KS K SECTIONS TO HAVE 1 SECTIONS HAVE 1 5/8" EN EACH TRACK W/2-#1 BUILT-UP SECTION.	SI YIELD STRENGTH. 1/4" LEG MIN. FLANGES, TYP. U.N.O. SCREWS @ 16"c/c	
2 HEAD	DER SCHE	<u>DULE</u>	





Example #5





According to the plan, the ceiling finish within work room 1C25 shall be _____.

What do you need to look for? Ceiling Plans. Go to Master Drawing Index and you will find Ceiling Plans

A3.01A	CEILING	PLAN -	1ST	FLOOR,	PART A
A3.01B	CEILING	PLAN -	1 S T	FLOOR,	PART B
A3.02A	CEILING	PLAN -	2ND	FLOOR,	PART A
A3.02B	CEILING	PLAN -	2ND	FLOOR,	PART B







According to the plan, the ceiling finish within work room 1C25 shall be _____.

Then, you need to find 1C25. You can navigate to any floor plans to find them.

For example, you could use the Ceiling Plans.

And you will find 1C25 on A3.01B









According to the plan, the ceiling finish within work room 1C25 shall be _____.

In the same drawing, you can find the Ceiling Legend.

	CEILING LEGEND
$\left[\bigcirc\right]$	NORMAL BRANCH SURFACE OR RECESSED FLUORESCENT
	CRITICAL BRANCH SURFACE OR RECESSED FLUORESCENT
	LIFE-SAFETY BRANCH SURFACE OR RECESSED FLUORESCENT FIXTURE
00	NORMAL BRANCH SURFACE OR RECESSED FIXTURE (TYPE DETERMINES MOUNTING)
Ø Ø	CRITICAL BRANCH SURFACE OR RECESSED FIXTURE
0	LIFE-SAFETY BRANCH SURFACE OR RECESSED FIXTURE
	NORMAL BRANCH SUFACE OR SUSPENDED FLUORESCENT FIXTURE
	CRITICAL BRANCH SUFACE OR SUSPENDED FLUORESCENT FIXTURE
	UFE-SAFETY BRANCH SUFACE OR SUSPENDED FLUORESCENT
ΩQ	WALL BRACKET FIXTURE
<u> </u>	LIFE-SAFETY BRANCH WALL BRACKET FIXTURE
• <u>•</u>	EXIT LIGHTS- WALL & CIELING MOUNTED- PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLANS
	BATTERY POWERED EMERGENCY LIGHT
	UNDER CABINET LIGHT
X	MECHANICAL DIFFUSER
	EXHAUST/RETURN GRILL
0	SMOKE DETECTOR
	SOFFIT VENT
	GYP.BOARD
	PIN PERFORATED, FINE FISSURED, OR LIGHTLY TEXTURED LAY IN ACCOUNTICAL TILE. (REFER TO FINISH SHEETS)
	CLEAN ROOM TYPE (SMOOTH CLEANABLE) LAY IN CEILING TILE. (REFER TO FINISH SHEETS)






According to the plan, the ceiling finish within work room 1C25 shall be _____.

A.pin perforated tile B.lightly textured tile C.smooth cleanable gypsum board D.<mark>smooth cleanable lay in tile</mark>

Now, put together the information you found...



\mathbb{R}	CLEAN ROOM TYPE (SMOOTH CLEANABLE) LAY IN CEILING TILE. (REFER TO FINISH SHEETS)

	CEILING LEGEND
$\left[O\right]$	NORMAL BRANCH SURFACE OR RECESSED FLUORESCENT
	CRITICAL BRANCH SURFACE OR RECESSED FLUORESCENT
	LIFE-SAFETY BRANCH SURFACE OR RECESSED FLUORESCENT FIXTURE
00	NORMAL BRANCH SURFACE OR RECESSED FIXTURE (TYPE DETERMINES MOUNTING)
0	CRITICAL BRANCH SURFACE OR RECESSED FIXTURE
0	LIFE-SAFETY BRANCH SURFACE OR RECESSED FIXTURE
	NORMAL BRANCH SUFACE OR SUSPENDED FLUORESCENT FIXTURE
	CRITICAL BRANCH SUFACE OR SUSPENDED FLUORESCENT FIXTURE
	LIFE-SAFETY BRANCH SUFACE OR SUSPENDED FLUORESCENT FIXTURE
ΩΩQ	WALL BRACKET FIXTURE
<u> </u>	LIFE-SAFETY BRANCH WALL BRACKET FIXTURE
• •	EXIT LIGHTS- WALL & CIELING MOUNTED- PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLANS
	BATTERY POWERED EMERGENCY LIGHT
	UNDER CABINET LIGHT
X	MECHANICAL DIFFUSER
	EXHAUST/RETURN GRILL
D	SMOKE DETECTOR
	SOFFIT VENT
	GYP.BOARD
	PIN PERFORATED, FINE FISSURED, OR LIGHTLY TEXTURED LAY IN ACCOUSTICAL TILE. (REFER TO FINISH SHEETS)
	CLEAN ROOM TYPE (SMOOTH CLEANABLE) LAY IN CEILING TILE. (REFER TO FINISH SHEETS)



Inspection Services Unit



Homework

Homework #1

What is the minimum clear Opening height for knee space at the countertop in Room 1A16? $2' - 0 \frac{1}{2}''$ 2' - 6'''2' - 10'''5' - 0'' Homework #2

The floor finish for the operating room is
A.Carpet
B.sheet vinyl
C.resin
D.none of the above





Resolution

Homework #1

What is the minimum clear Opening height for knee space at the countertop in Room 1A16?

A. 2' - 0 ½"
B. 2' - 6"
C. 2' - 10"
D. 5' - 0"

Homework #2

The floor finish for the operating
room is
A.Carpet

B.sheet vinyl C.<mark>resin</mark> D.none of the above





First of all, you need to find room 1A16, and look for the interior elevation callout. Where do you need to look? 1A16 is on the 1st floor...

A1.51A	NOTED PLAN - 1ST FLOOR, PART A
A1.51B	NOTED PLAN - 1ST FLOOR, PART B
A1.52A	NOTED PLAN - 2ND FLOOR, PART A
A1.52B	NOTED PLAN - 2ND FLOOR, PART B



Homework Question #1



Room 1A16 is on A1.51A. Look for the interior elevation callout.







Homework Question #1

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Now that you know where the interior elevation is, go to A8.01 and look for room 1A16. Look also for the dimensions.... And if there is any additional information





Homework Question #1



2



2'-10" doesn't provide dimension for knee space

Look the indication for Knee Space. Is 2'-6" sufficient for response? Look detail 9/A8.52...







A. $\frac{2' - 0 \frac{1}{2}}{B}$ B. 2' - 6''C. 2' - 10''D. 5' - 0''

 \checkmark

You need to consider, for the actual knee space, 2'-6" minus 5 1/2" of wood blocking







The floor finish for the operating room is _____.

What do you need to look for? Finishes.

Go to Master Drawing Index and you will find Pattern Plans

F2.01A	PATTERN	PLAN	-	1 ST	FLOOR,	PART	A
F2.01B	PATTERN	PLAN		1ST	FLOOR,	PART	B
F2.02A	PATTERN	PLAN		2ND	FLOOR,	PART	A -
F2.02B	PATTERN	PLAN	-	2ND	FLOOR,	PART	Β.
		1.	•				









The floor finish for the operating room is _____.

Then, you need to find the Operating Rooms.

You can navigate to any floor plans to find them.

For example, you could use the Pattern Plans.

And you will find them on F2.01B







The floor finish for the operating room is _____.

In the same drawing, you can also find the Materials Legend

MATERIALS	LEGEND
CARPET TYPE 1 - (MODULAR WALKOFF)	F-1 LEES FIRST STEP T
CARPET TYPE 2 - (MODULAR)	F-2 INTERFACE, BIOMORPH
CARPET TYPE 3 - (BROADLOOM)	F-3 LEES GRANITE/GEOLOGIC COLLECTION
	F-4 LEES RIFTS/GEOLOGIC COLLECTION
CARPET TYPE 4 - (NEOFLOOR)	F-5 LEES, INTEGRITY
CARPET TYPE 5 - (ANTIMICROBICAL MODULAR)	F-6 INTERFACE, WOODLAND WAY
CERAMIC TILE TYPE 1 - (PORCELAIN)	F-7 SANDSWEPT AOT-MR21 - 12"X12"
	F-8 SANDSWEPT AOT-MR21 - 6"X6"
CERAMIC TILE TYPE 2 - (DALTILE, KEYSTONES)	F-9 KEYSTONES
QUARRY TILE	F-10 AMERICAN OLEAN WITH INTEGRAL RADIUS COVE BASE SET INTO THE FLOOR FLUSH.
vinyl composition tile type	F-11 ARTEFFECTS, CANVAS BEIGE 57202 F-12 ARTEFFECTS, SILVER SABLE 57205 F-13 ARTEFFECTS, ANTIQUE PAPYRUS 57217
Sheet Vinyl Type 1	F-14 TRANSLATIONS F-15 PERSPECTIVES
sheet vinyl type 2 - (Medinpoint)	F-16 BROOKSTONE 87707 F-17 PAMPAS BEIGE 87705
RESIN	F-18 METHYLACRYLATE RESIN SILIKAL RESIN SYSTEM
CONCRETE	F-19 EXPOSED CONCRETE
GRANITE	F-20 BEDROSIANS, UBATUBA







Structural









Expansion tank ET-2 is anchored with:

- A. 8 3/8" dia. Red Head w/3-inch embedment
- B. 4 1/2" dia. Red head w/4-inch embedment
- C. 4 5/8" dia. Red Head w/6-inch embedment
- D. 6 3/4" dia. Red Head w/4-inch embedment

	EQUIPMEN	THIS SHEET ON	AINT CHART		영상 않
EQUIPMENT	EQUIPMENT DESCRIPTION	EQUIP. LOCAT. DRAWING	OPA*	DRAWING*	SHEET*
CH-1	AIR-COOLED SCREW CHILLER	M4.01		WF-19122-12	SR.M2
CH-2	AIR-COOLED SCREW CHILLER	M4.01		WF-19122-12	SR.M2
CHWP-1	CHILLED WATER PUMP	M4.01	0PA-0196	WF-19122-13	SR.M2
CHWP-2	CHILLED WATER PUMP	M4.01	0PA-0196	WF-19122-13	SR.M2
HWP-1	HOT WATER PUMP	M4,01	0PA-0196	WF-19122-14	SR.M2
HWP-2	HOT WATER PUMP	M4.01	0PA-0196	WF-19122-14	SR.M2
B-1	FLEXIBLE TUBE STEAM BOILER	M4.0I		WF-19122-15	SR,M3
B-2	FLEXIBLE TUBE STEAM BOILER	M4.01		WF-19122-15	SR.M3
BF-1	BOILER FEEDWATER UNIT	M4.01		WF-19122-16	SR.M3
CP-I	CONDENSATE PUMP UNIT	M4.01		F-265136-1	SR.M5
CP-2	CONDENSATE PUMP UNIT	M4.01		F-265136-1	SR.M5
UH-I	HOT WATER UNIT HEATER	M4.01	0PA-0349	F-26561-1	SR.M3
CAC-I	CONTROL AIR COMPRESSOR	M4.01	0PA-0196	WF-19122-17	SR.M3
CAD-1	CONTROL AIR DRYER	M4.01	0PA-0196	WF-19122-17	SR.M3
FOT-I	ABOVE-GROUND F.O. TANK	M4.01		F-274535	SR.M4
ET-1	NOT WATER EXPANSION TANK	NO 01 H4 01		E-OCELAL-1	CD 144
ET-2,	HOT WATER EXPANSION TANK	M0.01,M4.01		F-265146-1	SR.M4

Look at the

Chart...

Equipment Seismic

















How many bolts are required to attach the beam at the second floor along gridline M to the column at gridline 23?

2nd floor framing plan, look to grid line M and 23. Look also for detail 2/S4.1









How many bolts are required to attach the beam at the second floor along gridline M to the column at gridline 23?



Detail 2/S4.1 refers to Beam schedule. The schedule is in Beam/column connection sheet, detail 7/S5.8

And remember the beam size from framing plan (W21)





VIO	3/8		3/4	3/8
W21	1/2"	6	alse 1" and	3/8"
W24,W27	1/2"	7	1"	3/8"
W30	1/2"	8	1"	3/8"
W33x	1/2"	9	1"	3/8"
W36x	1/2"	10	1"	3/8"
) SHE	AR C	ONN	ECTIC	DN S
		Alter free after		e en sinsen in

Inspection Services Unit

Office of Statewide Health Planning and Development

BEAM	SHEAR	ВО	LTS		
SIZE	THICKNESS	NO.	DIA.	WELD "A"	REMARKS
W8	3/8"	2	3/4"	5/16"	
W10	3/8"	2	3/4"	5/16"	
W10x26	3/8"	2	1"	5/16"	
W12,W14	3/8"	3	3/4"	5/16"	
W16	3/8"	4	3/4"	5/16"	일 이 같은 것이 같이 있는
W18	3/8"	5	3/4"	3/8"	
W21	1/2"	6		3/8"	
W24,W27	1/2"	7	1.	3/8"	
W30	1/2"	8	17	3/8"	
W33x	1/2"	9	1"	3/8"	
W36x	1/2"	10	1"	3/8"	











Base plate size and thickness for column at the intersection of grid lines P and 27 is _____.

A. 18" x 18" x 1"

- B. 18" x 18" x 1¼"
- C. 20" x 20" x 1"
- D. 20" x 20" x 1½"







S5.1





The kitchen equipment is anchored to what type of concrete?

First, look the Food Service Equipment Schedule, and see references for seismic detail.

You will see references from SRA6-10.

· · ·	3000	DULE OF EQUIEN	LINI	
TEM	DESCRIPTION	SEISMIC DETAILS (DETAIL #/SHEET#)	OPA APPROVAL	REMARKS
			n de la strategie de la	
1	TRASH RECEPTACLE	이 특히 아이는 아이는 것이 같아.		BY OWNER
2	HAND SINK		10. Con 1999 C	BY PLUMBING CONTRACTOR
3	SOILED DISHTABLE	F-278155/SRA8, F-278157/SRA8		W/ PRE-RINSE
4	DISPOSER W/ CONTROL		Sector and a	 - 1 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2
5	RACK SHELF	F-278182/SRA10	SCHOOL SCHOOL	는 것과 지수는 것은
6	DISH MACHINE	F-278155/SRA8, F-278158/SRA8	1. 100. 340	· · · · · · · · · · · · · · · · · · ·
7	CONDENSATE HOOD	F-277278/SRA6, F-277279/SRA6, F-277280/SRA6, F-277282/SRA6	R-0349	- 353 - 555 - 55
8	RACK SHELP	F-278185/SRA10		-Addition (Constraint)
9	SPARE NUMBER		的人名法法格尔	- 문 가 한 것이 같아. 한 것이 ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?
10	SPARE NUMBER	2월 - Hord Martin (2017) - 1985년	and the state	· 두 영상 등 방송 등 가지? 영상 등
11	BOOSTER HEATER	F-278155/SRA8, 278159/SRA8	100.000	- 12 / 22 / 20 / 2 / 2 / 2
12	CLEAN DISHTABLE	F-278155/SRA8, F-278160/SRA8	Story of Albert	
13	MOBILE CUP/GLASS RACK DOLLY	 + 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	19.11.20.20.20.20.	
14	S/S CORNER GUARD	111 목과학자가, 2411 - CDA (AD		물건이 많은 것을 모으셨는지?
15	SMART WALL ASSEMBLY	F-277780/SRA8	Street, States	 EXPLANATION
16	3-COMPARTMENT SINK	F-278164/SRA9, F-278166/SRA9, F-278167/SRA9	1.45	· - 맛수님, 쇼핑 상품 등 감독
17	SMART WALL ASSEMBLY	F-277780/SRA8	A STREET	-9.00
18	FLOOR TROUGH W/ GRATE		an Philippine	국 전문 영감은 것 같은
19	SPARE NUMBER	있는 글 관계 같은 것은 것이 같아.	131111-00.04-	'무대한 영향은 가슴을 잡고
20	SPARE NUMBER	영상 등 이 가격 감독 이 가격을 가셨다.	a second second	
21	FIRE SUPPRESSION SYSTEM	F-277292/SRA7	1992 - 1993	· 두 가슴
22	COFFEE BREWER	안 두 같은 것은 다 같다. 이 가 있다.	t, Brace Margaria	BY VENDOR
23	ICED TEA BREWER	영상 특별한 동안은 지원을 가지 않는 것이다.	THE REPORT	BY VENDOR
24	TOASTER		Starte Start and	- C. Starting of the Contact
25	BEVERAGE COUNTER	F-278155/SRA8, F-278161/SRA8	Sec. 89 (1997) (2.88) (2	· 프로그램은 그 전자 4 10 원
26	SMART WALL ASSEMBLY	F-277780/SRA8		- SMC 2014 100 2014
27	MOBILE 3-WELL HOT FOOD TABLE	(a) - the set for the set of t	Assess Carlos	
28	MOBLE TRAY TRANSPORT CART		Sector Cardon and Co	
29	SPARE NUMBER			14-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
30	SPARE NUMBER	1	1997 1997 1997 1997	
31	HORE HOT BOX (BROOFER			-
32 /	S/S WALL FLASHING	-	States States of	
33		F-277284/SRA6. F-277285/SRA6.	R-0349	-
34	STEAMER	F=277200/SRA0, F=277207/SRA0	11 0010	
- AR	COMBINATION BANGE (GRIDDAE	E-277300 / SPA7	A CONTRACTOR OFFICE	1
100		E_277205/CDA7	1	-
37	DEACH-IN EDEETED	E-277305 (0047	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	-
To	DEACH-BI DEEDICEDAYOD	T-277308/0047		-
70	PDADE MINDED			
30	SPARE HOMOEN			
40	SPARE NUMBER			-
41	REACH-IN FREEZER	F-277306/SRA7		
42	SMART WALL ASSEMBLY	F-277780/SRA8		EX OWNER
43	OFFICE FURNITURE	-		BT UNNER
- 44	STURAGE SHELVING	r-277783/SRA8		
45	DUNNAGE SHELF			
46	TABLE MOUNTED CAN OPENER		1997-1998	-
47	TRASH RECEPTACLE			BT OWNER
48	SMART WALL ASSEMBLY	F-277780/SRA8		
49	SPARE NUMBER			7-20-6278-6278
50	SPARE NUMBER	여행 특별한 동안, 감기 같은 것이는 것이다.	and the state of the	
51	PREPARATION TABLE W/ SINKS	F-278174/SRA9, F-178176/SRA9		- C.
52	DISPOSER W/ CONTROL			-
53	FOOD PROCESSOR	State - Carlos Constanting State	a di se si regio	
54	MOBILE INGREDIENT BINS	(1) HORNER (1997) (1997)	1	- The Sector Station of the
55	SUCER	- Maria - Maria	- 승규가 없다.	1 국가 (19) 2012 (1996) (19
56	ICE MAKER W/ FILTER	F-277301/SRA7	1	· 특징 사망한 작품 것은 작품을
57	ICE BIN	F-277301/SRA7	A VERSEN	-80792676978 - C
58	NOP SINK	전에는 이 나는 것이 같이 같아?		BY PLUMBING CONTRACTOR
59	WALL SHELF	F-278179/SRA9	and the state of the	- 1.5.2 (1.5.6) (1.5.6)
60	MOP RACK	그는 뜻 한 것에는 눈을 가지 드셨다.	1 - C. A. 1997 - 1998	BY PLUMBING CONTRACTO
61	MOBILE POT/PAN RACK	ina 🗕 da da dina bi	1.1.1.1.1.1.1.1.1	
	HOSE DIDD	 The second s		BY PLUMBING CONTRACTOR
62	HOAL DIDD			
62 63	PREP TABLE	F-278170/SRA9, F-278172/SRA9	المرابقة والإعراق المحافظ	 Sality (sloby down)

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4 F6228 F-27726/94/ 4 E7605x108 F-27736/94/ KA625 - -	-
A MEMORY 7-27220/06/7	-
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	18 사용값 약이 주시합니다. 아이지



URGICAL SPECIALT HOSPITAL

FS1.1



The kitchen equipment is anchored to what type of concrete?

Let's look at them from SRA6-10 and see the one anchored.

The equipment anchored are on SRA7-9



SRA9





SRA8



Inspection Services Unit

Office of Statewide Health Planning and Development







Hot water recirculation pumps HWRP-1 and HWRP-2 are:

First of all, look into the Plumbing sheet for the pump seismic restraint chart

EQUIPMENT SEISMIC RESTRAINT CHART (THIS SHEET ONLY)								
EQUIPMENT	EQUIPMENT DESCRIPTION	EQUIP.LOCAT. DRAWING	OPA#	DRAWING	SHEET*			
WH-1	WATER HEATER	P3.01		WF-19122-18	SR.PI			
WH-2	WATER HEATER	P3.01		WF-19122-18	SR.PI			
HWRP-1	HOT WATER RECIR PUMP	P3.01	0PA-0349	WF-19122-28	SR,PI			
HWRP-2	HOT WATER RECIR PUMP	P3.01	OPA-0349	WF-19122-28	SR.PI			
BP-1	BOOSTER PUMP	P3.0I	강 방법은 동안을 다.	WF-19122-19	SR.PI			
WSF-1	WATER SOFTNER	P3.01		WF-19122-20	SR.PI			
MVP-I	MEDICAL VACUUM PUMP	P2.02	일만에 걸려났다.	F-265170-1	SR.PI			
AIR	AIR MANIFOLD	P2.02	영상 방송, 영화한	F-265170-1	SR.PI			
NITROUS	NITROUS MANIFOLD	P2.02	일이 같은 것은 것이?	F-265170-1	SR.PI			
NITROGEN	NITROGEN MANIFOLD	P2.02		F-265170-1	SR.PI			
OXYGEN	OXYGEN MANIFOLD	P2.02	지 말했는 것 같아?	F-265170-1	SR.PI			
	그럼 그는 것 그는 글 글 그 것 것 같은 그 것 같다.							





Hot water recirculation pumps HWRP-1 and HWRP-2 are:

- A. Mounted on housekeeping slabs
- B. Mounted on pedestals
- C. Suspended from the deck
- D. Wall mounted









Homework

Homework #1

What reinforcing steel is required for the footing
at the intersection of grid lines O and 23?

- A. 4 #4 Bottom
- B. 6 #6 Bottom
- C. 10 #6 Bottom
- D. 9 #6 Top & Bottom
- E. 13 #7 Top & Bottom

Homework #2

The typical header for a 10-foot clear opening in the exterior wall would be:

- A. 2- 6"x18ga. studs with 3- 6"x14ga. Tracks
- B. 1-6"x18ga. stud with 2-6"x18ga. Tracks
- C. 3- 6"x14ga. studs with 3- 6"x 14ga. Tracks
- D. 2- 6"x18ga. studs with 2- 6"x18ga. tracks







MATERIALS	LEGEND			
CARPET TYPE 1 - (MODULAR WALKOFF)	F-1 LEES FIRST STEP T			
CARPET TYPE 2 - (MODULAR)	F-2 INTERFACE, BIOMORPH			
CARPET TYPE 3 - (BROADLOOM)	F-3 LEES GRANITE/GEOLOGIC COLLECTION F-4 LEES RIFTS/GEOLOGIC COLLECTION			
CARPET TYPE 4 - (NEOFLOOR)	F-5 LEES, INTEGRITY			
CARPET TYPE 5 - (ANTIMICROBICAL MODULAR)	F-6 INTERFACE, WOODLAND WAY			
CERAMIC TILE TYPE 1 - (PORCELAIN)	F-7 SANDSWEPT AOT-MR21 - 12"X12" F-8 SANDSWEPT AOT-MR21 - 6"X6"			
CERAMIC TILE TYPE 2 - (DALTILE, KEYSTONES)	F-9 KEYSTONES			
QUARRY TILE	F-10 AMERICAN OLEAN WITH INTEGRAL RADIUS COVE BASE SET INTO THE FLOOR FLUSH.			
VINYL COMPOSITION TILE TYPE	F-11 ARTEFFECTS, CANVAS BEIGE 57202 F-12 ARTEFFECTS, SILVER SABLE 57205 F-13 ARTEFFECTS, ANTIQUE PAPYRUS 57217			
Sheet Vinyl Type 1	F-14 TRANSLATIONS F-15 PERSPECTIVES			
sheet vinyl type 2 - (medinpoint)	F-16 BROOKSTONE 87707			
RESIN	F-18 METHYLACRYLATE RESIN SILIKAL RESIN SYSTEM			
CONCRETE	F-19 EXPOSED CONCRETE			
GRANITE	F-20 BEDROSIANS, UBATUBA			





Structural









Expansion tank ET-2 is anchored with:

- A. 8 3/8" dia. Red Head w/3-inch embedment
- B. 4 1/2" dia. Red head w/4-inch embedment
- C. 4 5/8" dia. Red Head w/6-inch embedment
- D. 6 3/4" dia. Red Head w/4-inch embedment

EQUIPMENT SEISMIC RESTRAINT CHART (THIS SHEET ONLY)								
EQUIPMENT	EQUIPMENT DESCRIPTION	EQUIP. LOCAT. DRAWING	OPA*	DRAWING*	SHEET*			
CH-1	AIR-COOLED SCREW CHILLER	M4.01		WF-19122-12	SR.M2			
CH-2	AIR-COOLED SCREW CHILLER	M4.01		WF-19122-12	SR.M2			
CHWP-1	CHILLED WATER PUMP	M4.01	0PA-0196	WF-19122-13	SR.M2			
CHWP-2	CHILLED WATER PUMP	M4.01	0PA-0196	WF-19122-13	SR.M2			
HWP-1	HOT WATER PUMP	M4,01	0PA-0196	WF-19122-14	SR.M2			
HWP-2	HOT WATER PUMP	M4.01	0PA-0196	WF-19122-14	SR.M2			
B-1	FLEXIBLE TUBE STEAM BOILER	M4.0I		WF-19122-15	SR,M3			
B-2	FLEXIBLE TUBE STEAM BOILER	M4.01		WF-19122-15	SR.M3			
BF-1	BOILER FEEDWATER UNIT	M4.01		WF-19122-16	SR.M3			
CP-I	CONDENSATE PUMP UNIT	M4.01		F-265136-1	SR.M5			
CP-2	CONDENSATE PUMP UNIT	M4.01		F-265136-1	SR.M5			
UH-I	HOT WATER UNIT HEATER	M4.01	0PA-0349	F-26561-1	SR.M3			
CAC-I	CONTROL AIR COMPRESSOR	M4.01	0PA-0196	WF-19122-17	SR.M3			
CAD-1	CONTROL AIR DRYER	M4.01	0PA-0196	WF-19122-17	SR.M3			
FOT-I	ABOVE-GROUND F.O. TANK	M4.01		F-274535	SR.M4			
ET-1	NOT WATER EXPANSION TANK	NO 01 H4 01		E-OCELAL-1	CD 144			
ET-2,	HOT WATER EXPANSION TANK	M0.01,M4.01		F-265146-1	SR.M4			

Look at the

Chart...

Equipment Seismic

















How many bolts are required to attach the beam at the second floor along gridline M to the column at gridline 23?

2nd floor framing plan, look to grid line M and 23. Look also for detail 2/S4.1







OSHPD Office of Statewide Health Planging and Development
How many bolts are required to attach the beam at the second floor along gridline M to the column at gridline 23?

BEAM SHEAR

SHEAR

THICKNESS

3/8"

3/8"

3/8"

BEAM

SIZE

W8

W10

W10x26

Inspection Services Unit

CONNECTION

DIA.

3/4"

3/4"

1"

WELD "A"

5/16"

5/16"

5/16"

BOLTS

NO.

2

2

2



Detail 2/S4.1 refers to Beam schedule. The schedule is in Beam/column connection sheet, detail 7/S5.8

And remember the beam size from framing plan (W21)

SCHEDULE

REMARKS





		W12,W14	3/8"	3	3/4"	5/16"	
		W16	3/8"	4	3/4"	5/16"	化过程分子 化分子子
		W18	3/8"	5	3/4"	3/8"	en els Mathematics
		W21	1/2"	6		3/8"	
		W24,W27	1/2"	7	1"	3/8"	
	영상하다	W30	1/2"	8	1"	3/8"	
		W33x	1/2"	9	17	3/8"	
- 1		W36x	1/2"	10	1"	3/8"	
	7) SHE	TAR C	ONN	ECTIO	ON SC	HEDULE
1			e de la companya de l			9 - 21 S (* 1) (* 1)	

OSHPC Office of Statewide Health Planging and Development











Base plate size and thickness for column at the intersection of grid lines P and 27 is _____.

A. 18" x 18" x 1"

- B. 18" x 18" x 1¼"
- C. 20" x 20" x 1"
- D. 20" x 20" x 1½"







S5.1





The kitchen equipment is anchored to what type of concrete?

First, look the Food Service Equipment Schedule, and see references for seismic detail.

You will see references from SRA6-10.

	SUTI	DOLL OF LOUITIN		1
TEM	DESCRIPTION	SEISMIC DETAILS (DETAIL #/SHEET#)	OPA APPROVAL	REMARKS
				DV OWNER
1	TRASH RECEPTACLE			BY DURING CONTRACTOR
2	HAND SINK	-		w/ ppr-ppur
3	SOILED DISPITABLE	T-278155/5RA8, F-278157/5RA8		W/ PRE-RINSE
4	DISPOSER W/ CONTROL			1
5	RACK SHELF	F-278182/SRA10		-
6	DISH MACHINE	F-278155/SRA8, F-278158/SRA8 F-277278/SRA6, F-277279/SRA6		-
7	CONDENSATE HOOD	F-277280/SRA6, F-277282/SRA6	R-0349	-
8	RACK SHELF	F-278185/SRA10		
9	SPARE NUMBER			-
10	SPARE NUMBER	-	and an observation	7
11	BOOSTER HEATER	F-278155/SRA8, 278159/SRA8		-
12	CLEAN DISHTABLE	F-278155/SRA8, F-278160/SRA8		-
13	MOBILE CUP/GLASS RACK DOLLY	-		-
14	S/S CORNER GUARD			
15	SMART WALL ASSEMBLY	F-277780/SRA8		-
16	3-COMPARTMENT SINK	F-278167/SRA9	1.19	
17	SMART WALL ASSEMBLY	F-277780/SRA8		-0.000000000000000000000000000000000000
18	FLOOR TROUGH W/ GRATE		1. 1. 1. 1. 1. 1.	두 있는 이번 것은 것 같아?
19	SPARE NUMBER	2. s = . s s s s s s s s s s s s s s s s	1.17 (A. 19) (A. 19)	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
20	SPARE NUMBER		der faller fall	-124446-026-6-1
21	FIRE SUPPRESSION SYSTEM	F-277292/SRA7	1224-1.462	- and the stands
22	COFFEE BREWER	이는 특별한 관련 사람이 있는 것이다.	e, phas hikapp	BY VENDOR
23	ICED TEA BREWER	2016년 - 한학교 등 관련 위험 전 가격 관련 가격 (1997년 1997년 1 1997년 1997년 199	的复数装饰	BY VENDOR
24	TOASTER	 Interview of the order of the 		- 이상상영상 수가 문서소의
25	BEVERAGE COUNTER	F-278155/SRA8, F-278161/SRA8	요. 이는 요즘 가지지?	. 음악한 바람도 가슴을 가려.
26	SMART WALL ASSEMBLY	F-277780/SRA8		두 양전 동가관 가지 않는
27	MOBILE 3-WELL HOT FOOD TABLE	State - Contract State Contracts	Branch Later	· -) (영화학교 영화학교 영
28	MOBILE TRAY TRANSPORT CART	지 이 목숨 이 많은 것으로 한 것은 것같아.	and a lange of the	
29	SPARE NUMBER	· 문제 특별하는 한 것 같아요. 이 것 같아.	a da se sta s	用いたがますがない。
30	SPARE NUMBER	119 등관의 ACC 1750AC 1999	en de la de la de	
31	MOBLE HOT BOX / PROOFER		e Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	
32 /	S/S WALL FLASHING		3000 800 200	우리는 것은 것 같이 집안을
33	EXHAUST VENTILATOR	F-277284/SRA6, F-277285/SRA6, F-277285/SRA6, F-277287/SRA6	R-0349	누구 같은 것은 모양에서 말했다.
34	STEAMER	F-277299/SRA7	한 동안 모양의 문학	+22333950, 2232298
35	COMBINATION RANGE/GRIDDLE	F-277300/SRA7	n o stillentit.	승규는 승규는 감독을 가지? 것
36	FRYER/FILTER UNIT	F-277295/SRA7	NUMBER	· 프라이언 영화 영화 가지
37	REACH-IN FREEZER	F-277305/SRA7	a shikiri kat	· 뉴턴 이 영상 등 방송 이 공공을
38	REACH-IN REFRIGERATOR	F-277306/SRA7	and the second second	응답 사람이 있는 것이 없다.
39	SPARE NUMBER	-	States and	 – (5.31%) (2.11%) (5.51%)
40	SPARE NUMBER	222 🖆 이 가슴 가 가지 않는 것 같아.	wybrie blabaet	 - 1002/08/08/08/08
41	REACH-IN FREEZER	F-277306/SRA7	1993 A. S. S. S. S. S.	
42	SMART WALL ASSEMBLY	F-277780/SRA8		
43	OFFICE FURNITURE		1. State 12, 1987 199	BY OWNER
44	STORACE SHELVING	F-277783/5918		12230-003-00-07-0
45	DUNNAGE SHELF	-	111 No. 11 No. 11	
46	TABLE MOUNTED CAN OPENED			
40	TRASH RECEPTACIE	-		BY OWNER
-17	PALET RELEASED A	E DITING (ED.)	The start of the	
48	SMART WALL ASSEMBLY	F-277780/SRA8		
49	SPARE RUMBER			-
50	DPARE RUNDER			-
51	PREPARATION TABLE W/ SINKS	F-278174/SRA9, F-178176/SRA9		
52	UISPUSER W/ CONTROL			
53	FOOD PROCESSOR		1010100101010	-
54	MOBILE INCREDIENT BINS			
55	SUCER	se – North Constant Press	1.1.1.1.1.1.1.1.1.1	
56	ICE MAKER W/ FILTER	F-277301/SRA7		
57	ICE BIN	F-277301/SRA7	Sector Sector Sector	-00.10200.00000
58	MOP SINK		1963	BY PLUMBING CONTRACTOR
59	WALL SHELF	F-278179/SRA9	and the second	
60	MOP RACK	한 김 등 및 이상은 등 이 가장 도가 있는	1. 1. 1. 1. 1. 1. 1. 1.	BY PLUMBING CONTRACTOR
61	MOBILE POT/PAN RACK	것. 전 🗕 전 전 전상 전 전 전 전 전 전 전	and a stable	· 프린아공동 : []]]] []]
62	HOSE BIBB	그 밤 그는 그는 것은 것이 많은 것이 같았어.		BY PLUMBING CONTRACTOR
_	DOED TADLE	F-278170 /9849 F-278172 /S849		 Salid Stable South
63	PREP TABLE	T ETOTTOY OCOLO, T ETOTTEY DIGIO	and the second se	the second se

	The second	L	171 0403	
	A SAN THE	-	Dr PLANNE CHERKE	
	1 1010 29/04/	F-10003/0848, F-10003/5948	8/ //6-1835	
*	A SIFCHER W/ CONTROL	-	-	
n al	1 ANOX 51627	/-27#95/58X0	-	
	1 231 MORE	F-27833/5448, F-27833/5948	-	National Second
N	7 DINOVENTE HOLE	2-277286-9146, P-277282/9946 8-6348	-	
ver	THE MAKE		-	
88	O PHE GARD	-	-	
-	T BOSTRHENTS	F-27835/5AMA, 278356/5R48	-	
8	12 QUIN DIRCHEZ	P-278101/56ML P-278108/38MB	-	
BLE .	10 MERT CIT/STICL INCK 2071	-	-	
	* 1/3 CRMB 2040	-	-	
	S DEFE ING ADDRESS	7-27788/3848 7-2788/3842 7-2788/3948	-	
IN IN	7 SHIT BUL KITCHLY	7-2780/2944		
	IN FLOOR TROJOK B/ CONTE	-	-	
	1 FVC 4.4801		· ·	
1	2 24E 6303	-	-	
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	a weeks marks	(-2003)/9H4, (-2009/0414	-	
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	IN HERE THE THERE IT CAT	-	-	2007
	3 940 6483	-	-	
1.11	N STAL AGAIN		-	
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	18 Dewlot Vortunde	7-277294-9846, 7-277395,7946, 8-1348 7-277296,9946, 7-277397/9948, 8-1348	-	
	S IDAGI K	P-277298/3997	-	N. DETARY
-	3 COMENCION INNEL/ORDELL	7-377398/9997	-	2815 LOCKERS D
	T EXCLUSION	P-(11)96/997	-	
1	B Kick-n Million	P-177398/3947	-	2010
	IT THE RMEN	-	-	
	O STATE ANOTA	3 4		
	4 Root-A REER	0-277388/9847	-	
	C DIST ML (EDG)	F-17778/SAI	-	
-	H TONE SCINE	F-27782-044	-	NUTE IN 12X
	d Down Self	-	-	
1	IN THE WON'D ON PORT	-	-	
	IT THIS RECTION	-	17 380	
	AT SHAT WILL ADDINGLY	F-1777RL/3NA	-	
-	H PUE SDAD		-	
	H PERSONAL TANK N/ Dawn	F-27823L-SMAR F-179679-7844	-	
	12 (1870)ER #/ (2479).	-	-	(14) (25)
	13 1910 MOCCOSH	-	-	
1	S NEED NORCHOT BAS	-	-	
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	9 80 907	C. THE R. CO.	-	DESIGN PURPOSES ONLY TO
	a ap hax	-	IF FLMINE COUNCIL	NOT FOR CONSTRUCTION TO
	I MIDLE PET, FIM THOS	-	-	OCTOBER 24, 2003 AN
	42 HOE 208	-	In Automs contract	0
	CE INDE SAME	F-21875/364, F-27872/366	-	
	or part will someth	(F-277380/3848	1-	
				KITCHEN EC



URGICAL SPECIALT HOSPITAL





The kitchen equipment is anchored to what type of concrete?

Let's look at them from SRA6-10 and see the one anchored.

The equipment anchored are on SRA7-9









Inspection Services Unit

Office of Statewide Health Planning and Development







Hot water recirculation pumps HWRP-1 and HWRP-2 are:

First of all, look into the Plumbing sheet for the pump seismic restraint chart

EQUIPMENT SEISMIC RESTRAINT CHART (THIS SHEET ONLY)						
EQUIPMENT DESIGNATION	EQUIPMENT DESCRIPTION	EQUIP. LOCAT. DRAWING	OPA#	DRAWING	SHEET*	
WH-1	WATER HEATER	P3.01		WF-19122-18	SR.PI	
WH-2	WATER HEATER	P3.01		WF-19122-18	SR.PI	
HWRP-1	HOT WATER RECIR PUMP	P3.01	0PA-0349	WF-19122-28	SR,PI	
HWRP-2	HOT WATER RECIR PUMP	P3.01	0PA-0349	WF-19122-28	SR.PI	
BP-1	BOOSTER PUMP	P3.0I	경험적용 관망과	WF-19122-19	SR.PI	
WSF-1	WATER SOFTNER	P3.01		WF-19122-20	SR.PI	
MVP-I	MEDICAL VACUUM PUMP	P2.02		F-265170-1	SR.PI	
AIR	AIR MANIFOLD	P2.02		F-265170-1	SR.PI	
NITROUS	NITROUS MANIFOLD	P2.02	김 사람은 영상	F-265170-1	SR.PI	
NITROGEN	NITROGEN MANIFOLD	P2.02	같은 것 같은 가슴 것 같아요. 같은 것은 것은 것 같아요.	F-265170-1	SR.PI	
OXYGEN	OXYGEN MANIFOLD	P2.02		F-265170-1	SR.PI	
	이번 그는 것은 것을 잘 못 했다. 것은 것이 없는 것이 없다.					





Hot water recirculation pumps HWRP-1 and HWRP-2 are:

- A. Mounted on housekeeping slabs
- B. Mounted on pedestals
- C. Suspended from the deck
- D. Wall mounted









Homework

Homework #1

What reinforcing steel is required for the footing
at the intersection of grid lines O and 23?

- A. 4 #4 Bottom
- B. 6 #6 Bottom
- C. 10 #6 Bottom
- D. 9 #6 Top & Bottom
- E. 13 #7 Top & Bottom

Homework #2

The typical header for a 10-foot clear opening in the exterior wall would be:

- A. 2- 6"x18ga. studs with 3- 6"x14ga. Tracks
- B. 1-6"x18ga. stud with 2-6"x18ga. Tracks
- C. 3- 6"x14ga. studs with 3- 6"x 14ga. Tracks
- D. 2- 6"x18ga. studs with 2- 6"x18ga. tracks





Resolution

Homework #1

What reinforcing steel is required for the footing
at the intersection of grid lines O and 23?

- A. 4 #4 Bottom
- B. 6 #6 Bottom
- C. 10 #6 Bottom
- D. 9 #6 Top & Bottom
- E. 13 #7 Top & Bottom

Homework #2

The typical header for a 10-foot clear opening in the exterior wall would be:

- A. 2- 6"x18ga. studs with 3- 6"x14ga. Tracks
- B. 1- 6"x18ga. stud with 2- 6"x18ga. Tracks
- C. 3- 6"x14ga. studs with 3- 6"x 14ga. Tracks
- D. 2- 6"x18ga. studs with 2- 6"x18ga. tracks





What reinforcing steel is required for the footing at the intersection of grid lines O and 23?

LOUND

4 =

18

At the foundation plan, look column O-23 and read the footing mark (F7).





Homework #1



	_
What reinforcing steel is required for the footing at the intersection of grid lines O and 23?	
A. 4 - #4 Bottom	
B. 6 - #6 Bottom	
C. 10 - #6 Bottom	
D. 9 - #6 Top & Bottom	
E. 13 - #7 Top & Bottom	

Then go to Foundation details sheet and look for the footing schedule

FOOTING SCHEDULE						
ter par F	FOOTINGS	Sector 19	PE	DESTA	LS	
MARK	SIZE	REINF. EA. WAY	SIZE	REINF.	TIES	NOTES
F1	4'-0"x4'-0"x1'-0"	4−#4 BOT				Andrew Mary
F2	6'-0"×6'-0"×1'-6"	6-#6 BOT	22"x22"	12-#5	#3@12"	G13.9, M25
F3	8'-0"x8'-0"x2'-0"	9#6 BOT	22"x22"	12-#5	#3@12"	G15, P25
F4	9'-0"x9'-0"x2'-0"	10-#6 BOT				
F5	8'-0"x8'-0"x4'-0"	9#6 TOP&BOT		1997 - Barrison Barrison, 1997 - Barrison Barrison, 1997 - Barrison Barrison, 1997 - Barrison Barrison, 1997 - Barrison Barrison, 1997 - Barrison Barrison, 1997 - Barrison, 1997 - Barrison, 1997 - Barrison, 1997 - Barrison,		
F6	9'-0"x9'-0"x6'-0"	10-#7		, aj du		
F7	10'-0"x10'-0"x7'-0"	13-#7 TOP&BOT				
- F8	10'-0"x10'-0"x8'-0"	13 #0 TOP&BOT				
EB	12'~0"x12'~0"x8'=0"_	13-#8 TOP&BOT				
F10	18'-0"x12'-0"x6'-0"	#8@12" TOP&BOT	SE	E 12/S2	2.2	R25, R26
FOR TOP REINF. PLACEMENT PED'L TIE IN RIGID FRAME FOOTINGS.						
(4)	FOOTING/	PEDE	STAL	SC	HED	ULE







The typical header for a 10-foot clear opening in the exterior wall would be:

- A. 2- 6"x18ga. studs with 3- 6"x14ga. Tracks
- B. 1-6"x18ga. stud with 2-6"x18ga. Tracks
- C. 3- 6"x14ga. studs with 3- 6"x 14ga. Tracks
- D. 2- 6"x18ga. studs with 2- 6"x18ga. tracks

	HEADER SCHEDULE					
	ROUGH OPENING	MEMBERS	BUILT-UP SECTION	NOTES		
	0'-0" TO 6'-4"	2—6", 18 Ga STUDS W/2—6", 18 Ga TRACKS				
	6'-5" TO 8'-4"	2—6", 18 Ga STUDS W/2—6", 18 Ga TRACKS				
	8'-5" TO 13'-0"	2—6", 18 Ga STUDS W/3—6", 14 Ga TRACKS				
	NOTE: 1.) ALL MEMBERS TO HAVE 33 KSI YIELD STRENGTH. 2.) TRACK SECTIONS TO HAVE 1 1/4" LEG MIN. 3.) STUD SECTIONS HAVE 1 5/8" FLANGES, TYP. U.N.O. 4.) FASTEN EACH TRACK W/2-#1 SCREWS @ 16"c/c FOR BUILT-UP SECTION. (2) HEADER SCHEDULE					
2					Ę.	

Go to S4.4 where you can find the Header Schedule







OSHPD

Office of Statewide Health

Planging and Development

Mechanical & Plumbing









What is the inlet pressure to the single stage pressure reducing station?

What do you have to look for? See if there is Single Stage Pressure Reducing Station Detail..... And there is

















The source valve for the nitrogen system is located in room _____.

First you need to know the symbol used for Nitrogen line

MEDICAL GAS LEGEND					
SYMBOL	DESCRIPTION				
A	COMPRESSED AIR				
γ	VACUUM				
	OXYGEN				
N 2	NITROGEN				
N20	NITROUS OXIDE				
VE	VACUUM PUMP EXHAUST LINE				
AI	AIR COMPRESSOR INTAKE LINE				
EVAC	EVACUATION (OUTLET IN O.R.'S CONNECTED TO VACUUM PIPING SYSTEM)				
S	MEDICAL VACUUM SLIDE BRACKET				
\bigcap	MEDICAL GAS OUTLET ISEE MED. GAS SCHED.)				

FIXTURE CONNECTION SCHEDULE 102/2013 BORNT FRIDE CA. NA. MASE 100/101 SURGICAL SPECIALTY MAIN WATER SIZING SCHEDULI PLUMBING ABBREVIATIONS HOSPITAL COLD WATER NOT WATER HOT WATER RECRC FLOOR SMK MASTE ENTERDED FANN WATER LEADER STORM WATER LEADER FREE EXTINUESIES WIENT LEVATION E.C.O. EXTEROS CLEANOUT R.D. FIDE GRAN F.D. FLOOR GRAN P.R.V. PRESSRE ROUCHD VALVE R.P.B.P. FEDUCED PRESSRE BACIFLON PREVENTER COLD WATER SYSTEM HOT WATER SYSTEM DENTITY NUMBER OF SUPPLY FRITURE TOTAL SUPPLY DEMAND IN FRITURES UNITS DEMAND FRITURE UNITS GALLON FER MINUTE FICTURE NUMBER OF FIXTURE UNIT ACTUAL OPM FIXTURES CALCULATION F. IL OTMAND P-2A P-3A P-4A P-7 WATER CLOSE? FLOOR MOUNTED-VALVE-PUR MATER CLOSET (PRIVATE) MATER CLOSET (PUBLIC) A WATER CLOSET FLOOR WOUNTD-BARRIER FRCE-FUELE A WATER CLOSET FLOOR WID-BARRIER FRCE-FLO-ATENT UFINAL WALL HERC-BARRIER FRCE
 Part
 REDUCTO
 PRESSURE
 BACUT

 AJJA
 ABOVE
 FINSHED
 RUDOR

 SS
 SSMITARY
 SERER
 C.O.
 CLEAMOUT

 FJAM
 FILM
 PROCESSING WAST
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 PROCESSING WAST
 FILM
 PROCESSING WAST
 5.0 IIO 8.0 64 4.0 8 2.0 36 18 x 2 x 3/4 27 32 x 1 x 3/4 24 3 x 3 x 3/4 6.75 WALL HORG-PHOTO EVE-STAFT WALL HORG-HITCHER-FOOT OPERATED WALL HORG-BROOK PIEZ-PARE DROP-N-CFAL -BARRER FREE-PARE REAL HORG-BARRER FREE-PARE DROP-N-CFAL-ARRER FREE-PARENT S.S.- FLW FREESBARD SHK S.S.- FLWFREESBARD SHK S.S.- FLWFREESBARD
 P-II
 LAVATORY

 P-I2
 LAVATORY

 P-I3
 LAVATORY

 P-I5
 LAVATORY

 P-I6
 LAVATORY

 P-I7
 LAVATORY

 P-I8
 SINK
 LO SERVICE SINK DRINKING FOUNTAIN CLINCAL SINK WALL HYDRANT LE. INVERT ELEVATION G.W. GREASE NASTE ILM.R.P. HOT WATER RECRC PUR 1 X 10 X3/4 5 48 X 2 X1/4 72 EMERGENCY SHOWER SUB-TOTAL P+18 SINK P+19 SINK P-20 SINK 388 125 (PER CHART OPER CHART A-20 134LT5 COMMERCAL DISHWASHER 3 COMPARIMENT POT SIN 25 25 1X 6 X³/4 4.5 MEDICAL GAS SCHEDULE P-22 SINK S.S. - ISTAFF) 2 X 2 X⁴/₄ 3 3 X 1 X⁴/₄ 2.25 3 X 3 X⁴/₄ 6.75 0PER CHART A-20 56.5 P-24 LAB SINK P-25 CLINICAL SINK P-26 SCRUB SINK 2 5.5. WALL HING - (STAFF) ROUCK-N GNLY
 STHED.
 DESCRPTION

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 WHAL COULDE
 SERVICE SINK 1-0, 1-V, 1-S, 1-A 2-0, 3-V, 2-S 2-0, 3-V, 2-S, 1-
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 P-33
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 FORMEN FORPME 50 485 140 IPER CHART A 2-0, 3-V, 1-A, 1-N20, 1-N, 1-EVA 11/2 AS SHOWN TER CLOSET (PRO I-N MTH GALICES 14 X 2 X 4 21 14 X 1 X 4 10.5 18 X 2 X 4 27 0°ER CHART A-27 58.5 AS SHOWN AS SHOWN 1-0, 1-A 02, V, A, N2O, N2 N2 AS SHOW IPER CHART A-20 249.5 TO DT WATER DEMAND 249.5 MULTI-SICNAL ALASM BB2.5 200 IPER CHURT Aand development TAL BUILDING DEMAIN IN GALLONS PER MINUTE = 200 11/2 BUILDING SYSTEM PRESSURE 38 PSI/BULDING DESCH PRESSURE) -5 PSI/BURETH MARGIN 55 PSI/BUSETH MARGIN 64 PSI/STSTEM PRESSURE) 52 PSI/STSTEM PRESSURE) -16 PSI/ELEVATION LOSS -25 PSI/WE OKTINGL VALVE LOSS 25 PSI 1010 x 25/450 x 5.5 psl per 1001 CIVIL DESIGN INFORMATION MEDICAL GAS LEGEND 200 GFM @ 5.5 PSI/ 103/ MINIMUM OF 3"ON SUPPLY LINE FOR SYSTEM FLOW TEST RESIDUAL #2668 GPM © 51 PSI BULDING DEMIND = 200 GPM © 58PSI(ASSUMED) TOTAL PRESSURE LOSS = 20 PSI FROM CITY MAIN TO BULDING MICLUBES & WHETPA ASSURELY, & FP2, AND BLEVATION TMBOL DESCRIPTION COMPRESSED AIR NDIRECT VACUUM DIXYGEN NITROCEN NITROLS DIXOE VACUUM PLMP EXHAUST L CART WASH PHARMACY SINK 55 DOWNSPOUT NOZZLE ICE AND/OR COFFEE MAKER CONNECTION RO SUPPLY AND DRAIN BOX NURFOT AR COMPRESSOR WTAKE LINE EVACUATION OUTLET IN O.R.'S CONNECTED TO VACUUM PIPING SYSTEM RAINWATER & STORMWATER SIZING HORIZONTAL PIPING MEDICAL VACUUM SLIDE BRACKET MEDICAL GAS OUTLET ISEE MED. GAS SZE OF DRAW, PLOW MAX, ALLOWED HORIZONTAL, PROJECTED ROOF AREAS MAX, ALLOWED HORIZONTAL, PROJECTED ROOF AREA LEADER OR PPE HERW SQUARE FOOT AT Z-PER HURR RAWFALL RATE NOTES PLUMBING LEGEND MEDICAL GAS EQUIPMENT SCHEDU S.C.F.M.O 19 Hg. VOLTAGE H.P. DESCRIP. ITEN & MODEL NO. COLD WATER HELDW FLCORY WASTE LINE (ABOVE FLR OR BELOW OTQUIN WASTE LINE (BELOW FLCOR) VENT PIPE (ABOVE OR BELOW FLCOR) 32,600 480 60 WEDICAL VACUUM PUMP BEACON MEDICAL PRODUCTS LPV-10D-N200 55 110 28 20 200 GALLON ---94,000 ROOF DRAIN & VERTICAL PIPING SZE OF ORAN. FLOW WAX, ALLOWED HORIZONTAL PROJECTED ROLF AREAS LEADER OR PIPE UPAD INDES CAP OW LINE
 GAS COCK
 PRESSURE REDUCHC VALVE
 BALANCING VALVE
 OPPE TURNED UP
 PRE TURNED OWN
 OPPE TURNED OWN
 OPPE TURNED OWN WATER HEATER SCHEDULE DOMESTIC TYPE NO. WFGR. NO.EL ENT LINT STOPAGE FLOW TANK REMAINS WH-1 STEAM 2 AERCO 8+06/2.00/P 60 140 X 45 CFM 1,200 bs 20,400 WATER SOFTENER SCHEDULE PLUMBING INDEX RECIRC. BALANCING VALVE MFCR. MODEL SERVICE PEAK FLOW MAX, SUFTEMER BRINE SERVICE PIPE SZE MOL RATE (G.P.M.) GRAINS TAIN SZE TAIN SZE PIPE SZE SHEET SHEET TITLE PO.01 PLUMBING - SCHEDULES CULLICAN CUPLEX HS-152-0 75 100,000 20 ELCH Å X PO.02 SITE PLAN - PLUMBING PULCI UNDERGROUND - FLOOR PLAN - PART PULO2 UNDERGROUND - FLOOR PLAN - PART B PLOI PLUMBING - IST FLOOR PLAN - PART A PLO2 PLIMBING - IST FLOOP PLAN - PART I PLOS PLUMBING - 2ND FLOOR PLAN - PART GENERAL NOTES COORDINATE WITH CIVIL DRAWINGS FOR EXACT LOCATION AND ELEVATION C PUMP SCHEDULE PI.04 PLUMBING - 2ND FLOOR PLAN - PART I CONTRACTOR SHALL COORDINATE ALL TOP CASTING ELEVATIONS ON NEW SANITARY SERIER MAINFOLDS WITH FRESHED GRADE. UMBING - ROOF PLAN - PART WALL HYDRANTS SHALL BE NOUNTED 18" ABOVE FINSHED GRADE. PI.06 PLUMBING - ROOF PLAN - PART B SYSTEM TYPE WANLFACTURER MODEL G.P.N. HEAD SUCTION DISCURRE H.P. VOLTAGE REMARKS CONTRACTOR WHEN MAKING FINAL CONNECTIONS TO EQUIPMENT AND PLIMMEND FXTURES SHALL FURNESH CUTOFFS, TRAPS, STOPS, FAUCETS, ELBOWS, VACUUM, BREAKES, INSULATION, ETC. P2.01 MEDICAL GAS - IST FLOOR PLAN - PART ISSUE DATE: 01-02-05 7 20 X X 1/12 120 CONTRACTOR SHALL COORDNATE WITH ALL OTHER TRADES TO AND ANY SPACING OR ROLLING PROBLEMS. HOT WATER IN LINE B & G PL-30 P2.02 MEDICAL GAS - 1ST FLOOR PLAN - PART E ALL BROND P2.03 MEDICAL GAS - 2ND FLOOR PLAN - PART DATE DESCRIPTIC ALL FIXTURES, EQUIPMENT AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH STATE AND LOCAL CODE REGUREMENTS. P2.04 MEDICAL GAS - 2ND FLOOR PLAN - PART I INSTALL SHOCK ABSORBERS ON ALL FLUSH VALVE FIXTURES AND OUCK CLOSING INLET VALVES. B&C N8F-105 3 II X X 1/12 120 HOT WATER IN LINE ALL BRONZ UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT. NEITHER DRILLED NOR NOTCHED. WRITTEN AUTHORIZATION FROM SOR AND OSHPD DSE IS REQUIRED IN ADVANCE. P3.01 PLUMBING - LARGE SCALE MECH. ROOM ALL PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE SLEEVED AND/OR PATCHED AS SOBECTED BY THE SPECIFICATIONS, PATCHING SHALL MATCH FINISH, GEE ARCH, DRABINGSL P3.02 PLUMBING - LARGE SCALE KITCHEN 3550 BPW 4"HEALER DUPLEX BOOSTER PUMP (EP-D) ALL VENTS SHALL BE MINING OF 25'-O' AWAY FROM A/C AR INTAKES, AND PATIENT WINDOWS. P4.01 PLUMBGING - RISERS CONTRACTOR SHALL PROVIDE TRAP PRIMERS ON ALL FLOOR BRAIN NOT RECEIVING CONSTANT DISCHARGE FROM FOXTURES AND/OR EQUIPMENT, OR AS RECURED BY STATE AND LOCAL CODES. P5.01 LUMBING - DETAILS OPROVIDE COPPER HEADERS, FUSED DISCONNECTS, AND LOW WATER CUTOFF SMITCH. P5.02 PLUMBING - DETAILS ALL SANTARY OR STORWATER PIPING BELOW GRADE WITH LESS THAN 2 FEET OF EARTH COVER SHALL BE DUCTLE HON MATERIAL P0.01 PLUMBING - SCHEDULES





The source valve for the nitrogen system is located in room _____.

















Combination fire and smoke dampers are installed in the supply and return air duct penetrations through the wall of Electrical Room 1C26.

What do you have to look for? Look for 1C26. If you cannot find in the HVAC sheets, because the drawings are too busy.... Look in a different place, like LS1.01









Combination fire and smoke dampers are installed in the supply and return air duct penetrations through the wall of Electrical Room 1C26.

> Then, you need to look the symbol about Fire and Smoke Dampers



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the first set of the set of	MLC 1	10.01				
		HINC SCHEDULES				





Combination fire and smoke dampers are installed in the supply and return air duct penetrations through the wall of Electrical Room 1C26. And now, go to the HVAC True plan Α. B. False 24×12 SIDEWALL EXHAUST REGISTER (810 CFM) MECH 1042 53 -18x12 SIDEWALL SUPPLY REGISTER (810 CFM) SD ELECTRICAL 1025 Ñ SUPPLY REGISTER F/SD ELECTRICA (1475 CFM) 1030





















Supply air in lobby / waiting room 1A02 is _____ CFM.



What do you have to look for? Look for 1A02. If you cannot find in the Mechanical sheets, because the drawings are too busy.... Look in a different place, like LS1.01

















Su ro	Supply air in lobby / waiting room 1A02 is CFM.				
А.	0				
В.	448				
С.	<mark>1,400</mark>				
D.	8,397				





	RTU-2 VENTILATION TABLES Irefer to schedule on sheet made for unit)																	
ROOM Number	ROOM NAME	EQUIVALENT CMC TABLE 4-A DESIGNATION	AIR BALANCE RELATIONSHIP TO ADJACENT AREAS	CMC MINIMUM REQU MINIMUM AIR CHANGES OF OUTSIDE AIR PER HOUR	REMENTS Minimum Total Air Changes Per Hour	ALL AIR EXHAUSTED Directly outdoors	SPACE VOLUME (CUBIC FEET)	SUPPLY CFM	OUTSIDE AIR CFM	RETURN	D EXHAUST CFM	ESIGN TRANSFER CFM (+=POS.; -=NEG.)	TRANSFER ROOM NUMBER	AIR BALANCE RELATIONSHIP TO ADJACENT AREAS	AIR CHANGES OF Outside air per hour	TOTAL SUPPLY AIR Changes per hour	ALL AIR EXHAUSTED DIRECTLY OUTDOORS	REMARKS
1401	LOBBY/WAITING	CORRIDOR	E	2	4	N	8397	190	48	0	0	1400	100 OUTSIDE; 1300 VENDING (OPEN AREA)	E	3.5	10.0	N	





Homework

Homework #1

Room 1A24 will transfer 100 CFM from _____.

- A. Corridor 1A28
- B. Draw 1A24
- C. None of the above
- D. Both A and B

Homework #2

What type of plumbing fixture is shown in room 1C04?

- A. Lavatory wall hung
- B. Lavatory drop in
- C. Sink SS photo eye (staff)
- D. Sink SS (staff)





Resolution

Homework #1

Room 1A24 will transfer 100 CFM from _____.

- A. Corridor 1A28
- B. Draw 1A24
- C. None of the above
- D. Both A and B

Homework #2

What type of plumbing fixture is shown in room 1C04?

- A. Lavatory wall hung
- B. Lavatory drop in
- C. Sink SS photo eye (staff)
- D. Sink SS (staff)




Room 1A24 will transfer 100 CFM from _____.

- A. Corridor 1A28
- B. Draw 1A24
- C. None of the above
- D. Both A and B









Room 1A24 will transfer 100 CFM from _____.

- A. Corridor 1A28
- B. Draw 1A24
- C. None of the above
- D. Both A and B













- A. Corridor 1A28
- B. Draw 1A24
- C. None of the above
- D. Both A and B











What type of plumbing fixture is shown in room 1C04?

- A. Lavatory wall hung
- B. Lavatory drop in
- C. Sink SS photo eye (staff)
- D. Sink SS (staff)











What type of plumbing fixture is shown in room 1C04?

- A. Lavatory wall hung
- B. Lavatory drop in
- C. Sink SS photo eye (staff)
- D. Sink SS (staff)



			·				
FIX	TURE C	CONNECTION	SCH	HED	ULE	PER C.P.C. TABLE 6-3	2001 & 7-3
IDENTITY		FIXTURE	C.W.	H.W.	WASTE	SUPPLY Fixture Units	DRAINAGE FIXTURE UNITS
						and the second	<u></u>
P-2A	WATER CLOSET	FLOOR MOUNTED-VALVE-PUBLIC	1.	X	4'	· · 10 · ·	6
P-3A	WATER CLOSET	FLOOR MOUNTED-BARRIER FREE-PUBLIC	1. 1 •	х	4"	10	6
P-44	WATER CLOSET	FLOOR MTD-BARRIER FREE-F.VPATIENT	1.	X	4	6	6
P-7	URINAL	WALL HUNG-BARRIER FREE	3/4	X	2*	5.5	2
P-11	LAVATORY	WALL HUNG-PHOTO EYE-STAFF	1/2	1/2	11/4	2	1
P-12	LAVATORY	WALL HUNG-KITCHEN-FOOT OPERATED	1/2	1/2	11/4	2	54 T - 2
P-13	LAVATORY	WALL HUNG-BARRIER FREE-PUBLIC	1/2	1/2	11/4	2	
P-15	LAVATORY	DROP-IN-OVAL-BARRIER FREE-PUBLIC	1/2	1/2	11/4	2	1
P-16	LAVATORY	WALL HUNG-BARRIER FREE-PATIENT	1/2	1/2	11/4	1	1.1
P-17	LAVATORY	DROP-IN-OVAL-BARRIER FREE-PATIENT	1/2	1/2	11/4	1 1 1	1.1.1.1
P-18	SINK	S.S FILM PROCESSING SINK	1/2	1/2	11/2	2	2
P-19	SINK	5.5 (STAFF)	1/2	1/2	11/2	2	2
P-20	SINK	S.S PHOTO EYE (STAFF)	1/2	1/2	11/2	2	2
P-22	SINK	S.S (STAFF)	1/2	1/2	11/2	2	2
P-24	LAB SINK	S.S.	1/2	1/2	11/2	2	2
P-25	CLINICAL SINK	WALL HUNG - (STAFF)	1.	1/2	4'	10	6
P-26	SCRUB SINK	ROUGH-IN ONLY	1/2	1/2	11/2	2	2

Where can you find P-20

meaning? In the Fixture

schedule









Electrical









MATV outlet for floor mounted televisions shall be installed at _____ inches above finished floor.

HEET	DESCRIPTION
E0.01	ELECTRICAL INDEX AND SCHEDULES
E0.02	ELECTRICAL LEGENDS
E0.03	ELECTRICAL EQUIPMENT CONNECTION SCHEDULES
E0.04	ELECTRICAL EQUIPMENT CONNECTION SCHEDULES
E1.01	ELECTRICAL SITE PLAN
E2.01	FIRST FLOOR PLAN - PART A- LIGHTING
E2.02	FIRST FLOOR PLAN - PART B- LIGHTING
E2.03	SECOND FLOOR PLAN - PART A- LIGHTING
E2.04	SECOND FLOOR PLAN - PART B- LIGHTING
E3.01	FIRST FLOOR PLAN - PART A- POWER
E3.02	FIRST FLOOR PLAN - PART B- POWER
E3.03	SECOND FLOOR PLAN - PART A- POWER /
E3.04	SECOND FLOOR PLAN - PART B- POWER
E4.01	FIRST FLOOR PLAN - PART A- SYSTEMS
E4.02	FIRST FLOOR PLAN - PART B- SYSTEMS
E4.03	SECOND FLOOR PLAN - PART A- SYSTEMS
E4.04	SECOND FLOOR PLAN - PART B- SYSTEMS
E5.01	ROOF PLAN - PART A - ELECTRICAL
E5.02	ROOF PLAN - PART B - ELECTRICAL
E6.01	LARGE SCALE ELECTRICAL
E6.02	LARGE SCALE ELECTRICAL
E7.01	ELECTRICAL POWER DISTRIBUTION RISER
E7.02	ELECTRICAL POWER DISTRIBUTION NORMAL ONE LINE DIAGRAM
E7.03	ELECTRICAL POWER DISTRIBUTION ESSENTIAL ONE LINE DIAGRAM
E7.04	ELECTRICAL POWER DISTRIBUTION ESSENTIAL ONE LINE DIAGRAM
E8.01	TELECOMMUNICATIONS DETAILS
E8.02	ELECTRICAL DETAILS
E9.01	ELECTRICAL PANELBOARD SCHEDULES - NORMAL SYSTEM
E9.02	ELECTRICAL PANELBOARD SCHEDULES - ESSENTIAL SYSTEM
E9.03	ELECTRICAL PANELBOARD SCHEDULES - ESSENTIAL SYSTEM

MATV stands for Master Antenna Television. Where could you find the MATV outlet information? Look at the Index

		ELECTRICAL SHEET INDEX		LE	SCHEDU	XTURE S	TING F	LIGHT	-24/26	_
		DESCRIPTION	SHEET NUMBER	REMARKS	MOUNTING	AMPS VOL	G NO.	CATALOG	MANUFACTURER	PE M
		ELECTRICAL NOEX AND SCHEDULES	10.03	PLUCEESCENT STRP. 2 LAMP, R/	RECESSED	2# 18 277	88-211- 2	254-232-68 25464	COLUMBA	co
		ELECTREM, LEGENDS	80.09	ACRILIC LENS, GHD	RECESSED	28 18 217	5 2	CB8-A12-121 STR24-110	20LUNDIA	/ 00
		ELECTRICAL EQUIPMENT CONNECTION SCHEDULES	60.03	2 X 4 FLUDRESCENT, 4 LAMP	RECESSED	28 18 277	5-75- 4	\$1824-432 FR8-4012	COLUMBIA	00
		ELECTRICAL EQUIPMENT CONNECTION SCHEDULES	0.03	2 X 2 FLIDHESCENT, 3 LAMP	RECESSED	W T8 277	-fs- 3	1121.23	COLUMBIA	00
		REST FLOOR PLAN - PART A- LIGHTING	82.04	P IN ANDESCENT COMMUNHT DEAN ALZAK, LENSED	RECESSED	OW A21 120	ŀ	NC MOO-	PRESCOLITE	1 18
		THIST FLOOR PLAN - PART D- LIGHTING	62.02	CAST ALLMIN, M DOUBLE FACE ENT, RED LETTERS,	UNISRSAL	.tD 277	-	SESRM	AMUTE	DU DU
		SECOND FLOOR PLAN - PART A- LIGHTING	62.03	2 X 4 FLUGHESCENT, 3 LAMP	RECESSED	20 18 277	g-15- 3	31824-332	COLUMBIA	0
	1	SECOND FLOOR PLAN - PART II- LIBITING	E2.04	EX 4 FLUCHESCENT, 4 LAMP	RECESSED	28 18 277	g-15- 4	57824-4321 57824-4321	COLUMERA	3 00
		PRIST FLOOR PLAN - PART A- PORER	E3.02	2 X 2 FLUGRESCENT, 3 LAMP ACTILIC LENG, FLANGE	RECESSED	W TB 277	1-15- 3	57822-3170 688-A12J2	COLUMBIA	co
		SECOND FLOOR PLAN - PART A- PORTH -	E3.03	P X 4 FLUORESCENT, 6 LAND R/CHROMA LLND'S, FLANSE	RECESSED	20 18 277	F-ECB 6	ST8245-3F	ALACO .	t su
		SECOND FLOOR PLAN - PART D- POWER	E3.04	RACHIOMA LAMPS, BIRT PACK	RECESSED	24 18 277	-208- 6	518245-5F	KLKC0	1 40
		FIRST FLOOR PLAN - PART A- SYSTEMS	E4.01	FNESH R/ARCHITECT	MPRCH	UDED 277	13-277 1	NH204-2F	THEYER	40
		THEST FLOOR PLAN - PART B- SYSTEMS	E4.02	FILTURE PATIENT ROCH NTE LIGHT,	RECESSED	15 120		103	ALKCO	6 4
		SECOND FLOOR PLAN - PART A- SYSTEMS	E4.03	PATIENT CHEREED, 2 LAMP DOWN,	SIRFACT HEY.	28 18 277	608 3	2186-412-5	ALKCO	7 84
		SUCCED FLOW FLAW - PART B- STISTING /	E4.04	BORNLIGHT, LENSED, GASKETED	RECESSED	W 277	780 2	5101-55	PRESCOLITE	1 99
		ROOF PLAN - PART B - ELECTRICAL	- ES.0	DONNEJONT, WALL BASH	RECESSED	* OUKD 277	1 F	STPECT IN	MESCOLITE	3 20
		LARGE SCALE FLECTRICAL	E6.01	DAGATECTUAL CONE	COVE	N 120	07 1-	BOL 5000	GLESTINL	3 00
		LARSE SCALE ELECTRICAL	E6.02	ENCERCABLET FORTURE	SURFACE	15 120		15¥	CLUMBIA	0
		ELECTRICAL POWER DISTRIBUTION RISER	67,01	FLEAR ALLAST BALLAST	RECESSIO	• /1 2TT	M 1	STI 605-0	MESCOLITE	5 10
		ELECTRICAL POWER DISTRBUTION NORMAL ONE LINE DIALRAM	E7.02	HOUSTBAL STRP. #/ 152	PERSONT	IN 18 217	28- 4	317 602#- 10.4-432-07 271-	COLUMBIA	4 . 00
		ELECTRICAL POWER DISTRBUTION ESSENTIAL ONE LINE DIAGRAM	E7.03	HALL PADE WITH QUARTZ	SURVACE + 10" M/G	W MI 277	-128- 1-	PRS-00108	NUEBELL	5 10
		TELECOMPLIANCE DISTRIBUTION ESSENTIAL ONE LINE DISCRAM	E1.04	CANSEY DOWNLOW WTH DUARTZ RE-STRIKE	RECESSED	17 Mari 277	CWHIT-	RH0401-100 STH802-0R	HESCOLITE	6 PR
		ELECTRICAL DETAILS	EB.02	2 X 4 FLUCHESCENT, 4 LAMP CASHETED, ACTIVIC LENS	RECESSED	8 18 277	5-55- 4	ST824-432 EN8-AU2.02	CULINEIA	7 00
		ELECTRICAL PANELBOARD SCHEDULES - NORMAL SYSTEM	ELOI	TANACUEE BAFFLE	SUSPENDED	# 18 277		247	JOLUMBIA	3 000
		ELECTRICAL PANELBOARD SCHEDULES - ESSENTIAL SYSTEM	£11.02	ANCYLIC LENE, STAIRNELLS	e 1 AFF	18 18 277	1-15-	\$12-277-MR	COLUMBA	0 50
		ELECTRICAL PANELBOARD SCHEDULES - ESSENTIAL SYSTEM /	E8.03	MCANESSIENT, VAPORTITE, MALL	MAL	09 A21 120	CO-15 1-	V#X-151-VC	AUBBELL	1 147
				W W/ X Y PAACURE LONS	RECESSED	te TE 277	8-FS- 3-	ST824-3320	OLUMBIA	2 604
				P FLUORESCENT DOWNLIGHT DLEAR ALEAK	RECESSED	¥ 11 277	F -	CFT842HEB STF902H	MESCOLITE	3 PR
1				PERFORMED, MATTE WHITE	Silk.	TR 18 120	-600 2-	NIC-44260-	EXC0	4 4.1
		CINERAL NOTE:		CASKETED, ACRYLIC LENS	RECESSED	1 18 277	5-0L 3	EB8-A12.09	COLUMBA	, 10
		INCOMPANIES EXECUTION ACCOUNT OF THE THEY MANDAGE.		TIPE BOSTRESUTION	POLE	ON MR 277	Siz I-	14-613-98	(M	7 10
				TYPE N DISTRUCTION	POLE	ON MR 277	512 1-		(H	8 8.94
		HVAC FIRE ALARM SHUTDOWN SCHEDULE		TIPE VS DISTROUTION	POLE	ON MH 277	512 1-	IA-615-PRS	IN	9 8.84
1.0		ITU AASA SEDARD FRE AAAAM JONE		NOT CONTRACT TRACK LIGHT	PECESSED	0% A21 120	1- 8-194-	C7323-NF	URT VERSEN	2 10
		2 X-547/WATING 1A		BITH CONEADS DUTDOOR BALL SCONCE	SURFACE	30 100	h	4514	MESCOUTE	- 6
-		NOBREOF 19 NOBREOE 19 19 10 10 10		TRAY N USE	#ALL	W 18 120	ar 2	16-12-	ALSCO	
		OPERATING ROOMS/SUPPORT IC IC		CARKADOW IN USE"	WALL NTD.	W 18 120	N USE 2	EG-12-	ALKCO	4 44
3		DETECTORS LOCATED WITHIN DESIGNATED FRE ALARN ZONES SHALL SHUTDOWN		PLUCHESCENT, ABOVE MERCH. PERFORTED, MATTE WHITE	Wilk!	SW 18 120	HECB 2	#4L-33260-	ALREO	5 44
8 24		ALARH BITWITCH.		ENERGENCY BATTERY PACK	SUFFACE	LUDED 217		ELB2	PRESCOLITE	4 10
				P. HALDOON, INTEGRAL	acressen			Q#4.10.***	NUT USED	
1		FOR SEISAC RESTRIANT OF EQUIPMENT SHOWN ON THIS SHEET, REFER TO CHART SHOWN ON SHEET CT.O. FOR LOCATION OF ANCHORAGE DETAILS ANTIMICATION THE DETAIL OF ANCHORAGE		PRANCY ORACIE, CLEAR ALZAK	RECESSED	LUDED 277		ERC .	PRESCOLITE	
1.5		Provide a second to a second to a second to a		COORDNATE MTG. HEIGHT AND FINSH W/INCHTECT	A\$235	10000 277	13-277	AIN1204-25	ADVENT	0 4
				E INCANDESCENT DOWNLIGHT	RECESSED	OV 421 120	1-	State:	PRESCOLITE	1 1
				SHEET ELOP	BOLLARD	IN MR 277	w277- 1-	NS82-7044	-	2 1
				ARDATECTURAL COVE	COVE	189 120	BX-X	UBL 5000	CELESTIN.	3 05
				REGURES OF STANDION MOUNTS	STANCHON WALL	28 18 277	rud- I	SMO ZIT	EV	4 10
				BULDING EXTERIOR	31w	211	-	arcit-full	-	
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				DIVORTING	INCUT FOR CORE	SAVETY BRANCH	STRAE	CONNET CONNET	THRE IS AND IN FOR	ONLYT
H										



Question # 3











MATV outlet for floor mounted televisions shall be installed at _____ inches above finished floor.

A.	12
Β.	<mark>18</mark>
С.	24
D.	30

So, let's look at the legend sheet E0.02

	B. <mark>18</mark>					SURGICAL SPECIALTY HOSPITAL
	C_{24}		LEGEND VYWOL DESCRIPTION MOUNTRY HIGHT	LEGEND SYMEOL DESCRIPTION HOURTRD HODET	LEGEND twees. Description Mounting	
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			BOO PEEDER RUNCH AUM		S MONEY LINE OF DO DO MARKET NO BOOK AND THE CALL	
•	CABLE/MATV SYSTEM					INTLE DATE: 01-05-05
	MATY OUTLET FOR FLOOR MOUNTED TV	1' - 6'				
	(ANTENNA, & REMOTE CONTROL SEE MANUFACTURERS	DETAIL) AFF				E0.00
						EU.UZ ELECTRICAL LEGENDS



Question # 3







A ______ shall be used as the steam sterilizer control disconnecting means for the steam sterilizers serving the O.R. area.



In order to find the steam sterilizer information, it is necessary to look for the sterilizer room location. Look, for example, LS1.01





A ______ shall be used as the steam sterilizer control disconnecting means for the steam sterilizers serving the O.R. area.

- A. 30A non fused disconnect switch
- B. 30A fused disconnect switch
- C. single pole 20A switch
- D. single pole 15A switch

Now that you know where 1C22 is, look into the electrical sheets, and find the information













Mechanical unit RTU-6 shall be fed using a _____V, ___ pole, ____ Amp circuit breaker.

RTU stands for Roof Top Unit. Look the Electrical Roof Plan to see the Panel for RTU-6









Mechanical unit RTU-6 shall be fed using a _____V, ___ pole, ____ Amp circuit breaker.

Α.	<mark>480,</mark>	З,	<mark>15</mark>
В.	120,	1,	20
C.	208,	З,	30
D.	277,	1,	20



Note:

Another way is to start from the panel schedule without knowing the Panel ID, and to search RTU-6, however it's more time-consuming.

ANE OC/ ED	L: HN2A2 TION: ELECTRIC CLOSET FROM: HN2A1 BUS	OC DEVIC	CE TYPE: Brecke FAMILY: Soit O	r ENCLOSI IN KOUNTIN VOLTAGE	IRE: NEMA IG: Surt I: 48	1 0/ 277	MA TIS	INS(A): MLO RING: 3-Pho:	ie 4-Wire	BUS RATING(A): 2 WITHSTAND(A): 100 FAULT CURRENT(A) 55	25 00 96
ĸŢ	DESCRIPTION	NOTES	DEMAND CODE	VA OC AMPS P	PHASE	O C Am PS P	VA	DEMAND	NOTES	DESCRIPTION	CKT
	TENANT LIGHTING TENANT LIGHTING	2#12.1#12G 2#12.1#12G	NON CON LGT Non Con Lgt	2460 20 1 2220 20 1	A B	20 1	0	SPARE		SPARE	2
	DDC 6-1 REHEAT UNIT	3#12.1#126	HEAT	6900 15 3	C A B	15 3	5991	MTR	3#12+1#126	RTU-6	2 10
	DDC 6-3 REHEAT UNIT	3#12•1#12G	HEAT	6500 15 3	C A	20 3	12700	HEAT	3#12•1#12G	DDC 6-2 REHEAT UNIT	12
	COC 5-5 REHEAT UNIT	3#12.1#12G	HEAT	2500 15 3	CA	20 3	10000	HEAT	3#12•1#12G	DDC 6-4 REHEAT UNIT	18
	DDC 5-6 REHEAT UNIT	3#12,1#12G	HEAT	6000 15 3	C A	15 3	2500	HEAT	3#12•1#12G	DDC 6-7 REHEAT UNIT	24 26
	SPARE SPARE SPARE		SPARE SPARE SPARE	0 20 1 0 20 1 0 20 1	B C A B	20 1 20 1 20 1 20 1	000	SPARE SPARE SPARE		SPARE SPARE SPARE	28 50 52 34
	SPACE SPACE SPACE SPACE		SPACE SPACE SPACE SPACE	0 20 1 0 20 1 0 20 1 0 20 1	ABC	50 3	12780	NONE	SEE ONE-LINE	TN2A2 PRI BUS	33 40 42

- ELECTRICAL ROOM "2A02"



OSHPD Office of Statewide Health Planning and Development

E9.01







How many light fixtures in patient room 2B12 are required to have dimmer switches?

Prior to read how many dimmer switches are in 2B12, find the symbol for them in the Switches legend.

and the second	L	I
	SWITCHES	
S	SINGLE POLE SWITCH - IVORY TOGGLE	3'-10" AFF TO CL.
\$	SINGLE POLE SWITCH - RED TOGGLE	3'-10" AFF TO CL.
S2	DOUBLE POLE SWITCH - CENTER OFF	3'-10" AFF TO CL.
S3	THREE WAY SWITCH - IVORY TOGGLE	3'-10" AFF TO_CL.
S4	FOUR WAY SWITCH - IVORY TOGGLE	3'-10" AFF TO CL.
SD	DIMMER SWITCH	3'-10" AFF TO CL.
VIC	VARIABLE INTENSITY CONTROL	3'-10" AFF TO CL.
ST	MOTOR RATED SWITCH WITH THERMAL OVERLOAD	
Р	PUSH PAD SWITCH FOR AUTOMATIC DOOR OPERATOR	3'-10" AFF TO CL.
\$P	SINGLE POLE SWITCH WITH PILOT LIGHT	
Ŝ	MULTI-LEVEL SWITCHING, (2) TWO SINGLE POLE SWITCHES CONNECT (1) SWITCH TO EACH BALLAST IN FIXTURE	3'-10" AFF TO CL.
OS	OCCUPANCY SENSOR (REFER TO DIVISION 16 SPECIFICATIONS)	CEILING
• •		







How many light fixtures in patient room 2B12 are required to have dimmer switches?

A. 1
B. 2
C. 3
D. none

Now that you know that the symbol is SD, look in 2B12

















For light pole information, you should look into the Electrical Site Plan















- f t t	The concrete ixture #38 sh vert. ies @ 12" ar pelow grade.	e base for light pole nall be provided with reinforcing bars & #3 nd extend feet
Α.	<mark>6-#6</mark> ,	<mark>5'-0"</mark>
Β.	6-#6,	6'-0"
C.	7-#6,	5'-0"
D.	7-#6,	6'-0"

Now that you know the height of the Light Pole and you are on the referred sheet, you can find the response



		POLE	BASE SCHE	EDULE	
POLE	MAXIMUM Total EPA	MINIMUM PIER SIZE	DEPTH BELOW	VERTICAL	CIRCULAR
15'-0"	0-10	20" DIAMETER	5'-0"	6-*6	*3 @ 12*
20'-0"	0-10	20" DIAMETER.	6'-0"	6-*6	#3 @ 12*
25'-0"	0-10	20" DIAMETER	7'-0"	6-*6	*3 @ 12*
30′-0*	0-10	20" DIAMETER	8'-0"	6-*6	*3 @ 12*
35'-0"	0-10	24" DIAMETER	8'-0"	8~*6	*3 @ 12*
35'-0*	10-20	24" DIAMETER	10'-0"	8-*6	*3 @ 12*
40'-0"	0-10	30" DIAMETER	10'-0"	8-*6	*3 @ 16*
40'-0"	10-20	30" DIAMETER	12'-0"	8-*6	*3 @ 16*
	EASE DIAME	TER IF NECE	SSARY TO M	AINTAIN MINIMUM	6" CONCRE



化氨基苯基 化进行工作 医尿道肌 网络小叶属白属白属属白属白属白属白属白垩合





Homework

Homework #1

The natural gas range/convection blower is served by which electrical panel and CKT?

- A. LN2B2-10
- B. LN2B2-7
- C. LEQ2A1-11
- D. LN2B2-14

Homework #2

The factory wired controller for				
circuit?				
_				
Α.	DHEQB1-7,8			
В.	LEOQB1-21,8			
C.	DHEQB1-7			
D.	DHEQB1-8			





Resolution

Homework #1

The natural gas range/convection blower is served by which electrical panel and CKT?

- A. LN2B2-10
- B. LN2B2-7
- C. LEQ2A1-11
- D. LN2B2-14

Homework #2

The factory wired controller for RTU-5 is connected to what circuit?			
A.	<mark>DHEQB1-7,8</mark>		
B.	LEOQB1-21,8		
C.	DHEQB1-7		
D.	DHEQB1-8		









Homework Question #1



The factory wired controller for RTU-5 is connected to what circuit?

- A. DHEQB1-7,8
- B. LEOQB1-21,8
- C. DHEQB1-7
- D. DHEQB1-8

On E0.04, look at the Roof Equipment schedule

	<u> </u>	<u></u>									
QUIPMENT		LOCATION	VOLTAGE/PHASE	AMPERAGE	WATTS	HP	BRANCH	CONNECTION	WIRE SIZE	CATEGORY	REMARKS
EF-1	EXHAUST FAN	ROOF PART A	120/1			1/6	EQUIPMENT	DIRECT CONNECTION	2#12,1#12G	MOTOR	DISCONNECT PROVIDED IN UNIT
EF-2	EXHAUST FAN	ROOF PART A	120/1			1/3	EQUIPMENT	DIRECT CONNECTION	2#12,1#120	MOTOR	DISCONNECT PROVIDED IN UNIT
EF-3	EXHAUST FAN	ROOF PART A	120/1			1⁄2	EQUIPMENT	DIRECT CONNECTION	2#12,1#12G	MOTOR	DISCONNECT PROVIDED IN UNIT
RTU-1	SUPPLY FAN	ROOF PART A	480/3	영상 감소 있		30	EQUIPMENT	SINGLE POINT - CONTROL PANEL	3#8,1#10G	HVAC	CONTROL PANEL, VFD, AND LIGH FURNISHED WITH UNIT
RTU-1	RETURN FAN	ROOF PART A	480/3	n an		7.5	EQUIPMENT	SINGLE POINT - CONTROL PANEL	3#12,1#12Q	HVAC	CONTROL PANEL, VFD, AND LIGH
RTU-2	SUPPLY FAN	ROOF PART A	480/3	a far an train	e da la factoria de la composición de la Composición de la composición de la comp	20	EQUIPMENT	SINGLE POINT - CONTROL PANEL	3#10,1#12G	HVAC	CONTROL PANEL, VFD, AND LIGH FURNISHED WITH UNIT
RTU-2	RETURN FAN	ROOF PART A	480/3			5	EQUIPMENT	SINGLE POINT - CONTROL PANEL	3#12,1#12G	HVAC	CONTROL PANEL, VFD, AND LIGH FURNISHED WITH UNIT
EF-4	EXHAUST FAN	ROOF PART A	120/1			1/2	EQUIPMENT	DIRECT CONNECTION	2#12,1#12G	MOTOR	DISCONNECT PROVIDED IN UNIT
EF-5	EXHAUST FAN	ROOF PART A	120/1			1/2	EQUIPMENT	DIRECT CONNECTION	2#12,1#12G	MOTOR	DISCONNECT PROVIDED IN UNIT
RTU-3	SUPPLY FAN	ROOF PART B	480/3		an an	30	EQUIPMENT	SINGLE POINT - CONTROL PANEL	3#8,1#10G	HVAC	CONTROL PANEL, VFD, AND LIGH
RTU-3	RETURN FAN	ROOF PART B	480/3			7,5	EQUIPMENT	SINGLE POINT - CONTROL PANEL	3#12,1#12Q	HVAC	CONTROL PANEL, VFD, AND LIGH FURNISHED WITH UNIT
RTU-4	SUPPLY FAN	ROOF PART B	480/3	i de terrai	2 - 11 - 13 1	30	EQUIPMENT	SINGLE POINT - CONTROL PANEL	3#8,1#10G	HVAC	CONTROL PANEL, VFD, AND LIGH
RTU-4	RETURN FAN	ROOF PART B	480/3		1.11.11.11.11	7.5	EQUIPMENT	SINGLE POINT - CONTROL PANEL	3#12,1#12G	HVAC	CONTROL PANEL, VFD, AND LIGH FURNISHED WITH UNIT
EF-6	EXHAUST FAN	ROOF PART B	480/3			1	EQUIPMENT	DIRECT CONNECTION	3#12,1#12G	MOTOR	DISCONNECT PROVIDED WITH UP FVNR COMB. STARTER IN MCC
EF-7	EXHAUST FAN	ROOF PART B	120/1			1/3	EQUIPMENT	DIRECT CONNECTION	2#12,1#12G	MOTOR	DISCONNECT PROVIDED IN UNIT
EF-8	EXHAUST FAN	ROOF PART B	480/3			. 1	EQUIPMENT	DIRECT CONNECTION	3#12,1#12G	MOTOR	DISCONNECT PROVIDED WITH UI FVNR COMB. STARTER IN MCC
EF-9	EXHAUST FAN	ROOF PART B	120/1		i sa kala ji	1/4	EQUIPMENT	DIRECT CONNECTION	2#12,1#12G	MOTOR	DISCONNECT PROVIDED IN UNIT
EF-10	EXHAUST FAN	ROOF PART B	480/3	eseksterne		2	EQUIPMENT	DIRECT CONNECTION	3#12,1#12G	MOTOR	DISCONNECT PROVIDED WITH UN FVNR COMB. STARTER IN MCC
EF-11	EXHAUST FAN	ROOF PART B	120/1			3⁄4	EQUIPMENT	DIRECT CONNECTION	2#12,1#12G	MOTOR	DISCONNECT PROVIDED WITH U
EF-12	EXHAUST FAN	ROOF PART B	480/3		entre St	1	EQUIPMENT	DIRECT CONNECTION	3#12,1#12G	MOTOR	DISCONNECT PROVIDED WITH UI FVNR COMB. STARTER IN MCC
EF-13	EXHAUST FAN	ROOF PART B	120/1	Needly 1 and		1⁄4	EQUIPMENT	30/3/NEMA 3R DISCONNECT AT UNIT	2#12,1#12G	MOTOR	
MAU-1	MAKE-UP AIR UNIT	ROOF PART B	480/3			1/4	EQUIPMENT	30/3/NEMA 3R DISCONNECT AT UNIT	3#12,1#12G	HVAC	FVNR COMBINATION STARTER IN MCC
RTU-5	SUPPLY FAN	ROOF PART B	480/3 and 480/3			75	EQUIPMENT	SINGLE POINT - CONTROL PANEL	3#1,1#6G	HVAC	CONTROL PANEL, VFD, AND LIGH FURNISHED WITH UNIT
RTU-5	RETURN FAN	ROOF PART B	480/3		an an the	25	EQUIPMENT	SINGLE POINT - CONTROL PANEL	3#8,1#10G	HVAC	CONTROL PANEL, VFD, AND LIGH
EF-14	EXHAUST FAN	ROOF PART B	120/1			1/6	EQUIPMENT	DIRECT CONNECTION	2#12,1#12G	MOTOR	DISCONNECT PROVIDED IN UNIT
SF-1	EXHAUST FAN	ROOF PART B	480/3	. Distances	ji karisti s	3	EQUIPMENT	30/3/NEMA 3R DISCONNECT AT UNIT	2#12,1#12G	MOTOR	FVNR COMBINATION STARTER



Homework Question #2



The factory wired controller for RTU-5 is connected to what circuit?

- A. DHEQB1-7,8
- B. LEOQB1-21,8
- C. DHEQB1-7
- D. DHEQB1-8



In the Electrical Roof Plan, look for the RTU-5. There are 2 circuit connected. Let's verify into the schedule









The factory wired controller for RTU-5 is connected to what circuit?

- A. DHEQB1-7,8
- B. LEOQB1-21,8
- C. DHEQB1-7
- D. DHEQB1-8



1.1.1.1.1.1	an <u>an an a</u> n an	the state of the second se		<u> </u>	12.5		ante en stan en service
PANEL: LOCATIO FED FR	DHEOBI DN: ELECTRIC ROOM 1030 DEV OM: ATS EQ LOAD	DEVICE TYPE: Breaker ICE FAMILY: Plug In	ENCLOS MOUNTI VOLTAG	URE: NEMA 1 NG: Surfoce E: 480/2	MAINS(W]RING 277	A): MLO BUS RA : 3-Phose 4-Wire Withst FAULT	TING(A): 800 AND(A): 65000 CURRENT(A) 41203
CUBICLE	DESCRIPTION	CONNECTED DEMAND	DESIGN KVA	DESIGN AMPS	DC DEVICE TYPE SIZE	PNOTES	
1 2 3 4 5	MCCEO BUS TED1B2 PRI HED2A1 BUS STER1\$ STER1LIZER SPACE STER1S WASHER	135.69 133.8 1.24 1.2 171.14 171.14 30.76 30.7 0.00 0.00 10.81 10.8	139.43 1.24 171.14 30.76 0.00 10.81	167.70 1.49 205.85 37.00 0.00 13.00	CB 300 CB 30 CB 400 CB 50 CB 250 CB 20	3 REFER TO ONE-LINE 3 REFER TO CNE-LINE 3 REFER TO ONE-LINE 3 3#8.1#10G 3 3#12.1#12G	
7	RTU-5 SUPPY RTU-5 RETURN	79.81 79.8 28.27 28.2	79,81	96.00	CB 125 CB 70	3 3#1,1#6G 3 3#8,1#10G	
9 10 11 12 13 14	SPACE ELEV 1 BUS SPACE SPACE SPACE SPACE	0.00 0.00 46.63 46.6 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 56.28 0.00 0.00 0.00 0.00	0.00 70.10 0.00 0.00 0.00 0.00	250 CB 100 250 250 250 250	3 3 3 3 3 3 3 3	
ALL CON TOTAL TOTAL TOTAL	NNECTED KVA CONNECTED 492.23 DEMAND 490.25 DESIGN 500.58	AMPS ★ PH/ 595-9 ★ A-P 592-3 ★ B-1 604-7 ★ C-P	SE TOTALS	VA 62632.8 65132.3 64479.7	AMP5 586.9 595.9 593.5	BUS TOTALS KVA CONNECTED 492.23 DEMAND 490.26 DESIGN 500.58	

And it is confirmed.







Fire Life Safety









When referring to the wall type details contained on sheet A6.20 of the plans what is the appropriate design number for the fire stop system required at the deflection track of a 2-hour fire rated wall?

> What do you need to look at? On A6.20, 2-hour wall detail. Then look for DESIGN NUMBER for Fire stop system





OSHPD Office of Statewide Health Planning and Development



When referring to the wall type details contained on sheet A6.20 of the plans what is the appropriate design number for the fire stop system required at the deflection track of a 2-hour fire rated wall?



- B. U438
- C. HW-D0001
- D. HW-D0002
- E. None of the above





sembly --- The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the











The California Fire Code requires that the aboveground fuel tanks be a minimum of 10' from the nearest building and 5' from the closest property line. What are the separation distances listed for the emergency generator fuel tank and do they comply with the above listed requirements?



The minimum dimension from nearest building and property line to the Generator could be found in the architectural site plan, or in the mechanical plan. You need to look for both to see where the actual information is located.







The California Fire Code requires that the aboveground fuel tanks be a minimum of 10' from the nearest building and 5' from the closest property line. What are the separation distances listed for the emergency generator fuel tank and do they comply with the above listed requirements?



Mechanical Drawing.... Let's see...



OSHPD Office of Statewide Health Planning and Development


The California Fire Code requires that the aboveground fuel tanks be a minimum of 10' from the nearest building and 5' from the closest property line. What are the separation distances listed for the emergency generator fuel tank and do they comply with the above listed requirements?

A. Yes, the tank is 75' from the building and >6'-4" to the property line

- B. Yes, the tank is 75' from the building and 9' to the property line
- C. Yes, the tank is 37'-6" from the building and 9' to the property line
- D. No, the tank is 18'-6" from the building but only 4'-6" to the property line

In M4.01, Mechanical Room the information is clear







Example #3





What is the minimum thickness of the fire protection required for the two columns located at Grid Line E 12?

First step, which is the column size on Grid Line E-12? Look at Column Schedule...









What is the minimum thickness of the fire protection required for the two columns located at Grid Line E 12?

Then, look for the UL # for columns

CODE ANALYSIS	GENERAL NOTES	VICINITY MAP -		MASTER DRAWING	INDEX:	
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What is the minimum thickness of the fire protection required for the two columns located at Grid Line E 12?







You know the column size, and
rating. Go to UL#X528 on
G1.02









Example #4





What type of emergency lighting is to be provided at the Ground Floor Part "B" Boiler Room?

First of all, look the light fixture located in the Boiler Room











What type of emergency lighting is to be provided at the Ground Floor Part "B" Boiler Room?

Look for legend symbols for any critical and emergency light fixture and compare with the one in the Boiler Room









What type of emergency lighting is to be provided at the Ground Floor Part "B" Boiler Room?

A. Life Safety Branch powered

0 0

Ø

L-OT

8 Ø

- Critical Branch powered Β.
- Battery powered C.
- All of the above D.
- E. Only A and C









Example #5





What is the size of the riser supplying sprinklers on the 1st and 2nd floors?

Look the Riser Detail From the Sprinkler drawings









What is the size of the riser supplying sprinklers on the 1st and 2nd floors?

Plumbing Drawings also have a Sprinkler System Riser detail

















Homework

According to the plan how many exits have been Provided from the Ground Floor Part "A" 1A02 Lobby?

A. One

B. Two

C. Three

D. Four

According to the plan what is the clear width of the 2nd. floor stair landing in the direction of door swing?

- A. 44"
- B. 3'-10"
- C. 5'-9"
- D. None of the above





Resolution

Homework #1

According to the plan how many exits have been Provided from the Ground Floor Part "A" 1A02 Lobby?

A. <mark>One</mark>

B. Two

C. Three

D. Four

Homework #2

According to the plan what is the clear width of the 2nd. floor stair landing in the direction of door swing?

- A. 44"
- B. 3'-10"
- C. <mark>5'-9"</mark>
- D. None of the above













According to the plan what is the clear width of the 2nd. floor stair landing in the direction of door swing?

A. 44" B. 3'-10" C. <mark>5'-9"</mark>

D. None of the above



Look at the Stairs enlarged plans in A2.61









Do you have a question? Email us at: OSHPD.fddisu@oshpd.ca.gov



