2nd FLOOR POST-OP RECOVERY EXPANSION

For

San Mateo Medical Center

222 West 39th Avenue San Mateo, California

DEFERRED APPROVAL LIST

DEFERRED APPROVALS FOR PROJECT:

1. FIRE ALARM SYSTEM
2. FIRE SPRINKLER SYSTEM
3. ANCHORAGE AND BRACING OF PIPES, DUCT WORK & CONDUITS

DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER TO WHOM RESPONSIBILITY HAS BEEN DELEGATED FOR PREPARATION OF DWGS. AND SPECS, AS LISTED ON THE APPLICATION, FOR REVIEW PRIOR TO SUBMITTAL TO OSHPD. PART 1 TITLE 24, SECTION 7-153 C.C.R.

PROJECT SUMMARY

THE SCOPE OF THIS PROJECT IS TO EXPAND THE POST OP UNIT AND THE RELOCATION OF THREE EXISTING BEDS TO ASSIST IN THE EASIER OBSERVATION OF PATIENTS. THERE IS NO INCREASE OF BEDS. THE PROJECT INCLUDES THE RELOCATION OF THE UNIT'S CLEAN UTILITY ROOM, EXPANSION OF THE NURSING STATION CASEWORK, MODIFICATION OF BOTH THE SUSPENDED GYPBOARD AND ACOUSTICAL TILE CEILINGS AS WELL AS THE LIGHTING ASSOCIATED WITH THEM AND THE ADDITION OF A STAFF ONLY ENTRY DOOR OFF THE CORRIDOR INTO THE EXISTING WOMEN'S TOILET ROOM 109.

PROJECT DATA

PROJECT AREA:	2,400.00 SQ. FT.
NO. OF STORIES:	3 (GROUND, 1ST AND 2ND FLOORS)
PROJECT LOCATION:	SECOND FLOOR
CONSTRUCTION TYPE:	TYPE 1A
OCCUPANCY:	GROUP I-2
FACILITY YEAR OF CONST.: PROJECT AREA:	1934-1935 UNDER OSHPD PROJECT # 106-330434-41

APPLICABLE CODES:

CONSTRUCTION SHALL CONFORM TO ALL GOVERNMENTAL AGENCIES AND CODES HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO:

CODE

2013 CALIFORNIA ADMINISTRATIVE CODE (CAC)
PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

2013 CALIFORNIA BUILDING CODE (CBC)
PART 2, TITLE 24, CCR
(2012 IBC AND 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA ELECTRICAL CODE (CEC)
PART 3, TITLE 24, CCR
(2011 NEC AND 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA MECHANICAL CODE (CMC)
PART 4, TITLE 24, CCR
(2012 UMC AND 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA PLUMBING CODE (CPC)
PART 5, TITLE 24, CCR
(2012 UPC AND 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA FIRE CODE (CFC)
PART 9, TITLE 24, CCR
(2012 IFC AND 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA GREEN BUILDING STANDARDS CODE
PART 11, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

2013 CALIFORNIA REFERENCED STANDARDS CODE
PART 12, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

FIRE PROTECTION:	ENTIRE BUILDING IS FULLY PROTECTED BY AN APPROVED AUTOMATIC SPRINKLER SYSTEM AND SMOKE DETECTION SYSTEM.
OSHPD PROJECT #	514206711-41-00

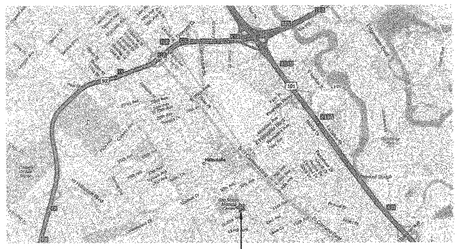
PROJECT CONSULTANTS

STRUCTURAL
KPW STRUCT. ENGS, INC.
130 WEBSTER ST. #300
OAKLAND, CA 94607
TEL: (510) 208-3300
ATTN: KEVIN TREAT, SE

MECHANICAL ENGR
LIST ENGINEERING
9699 BLUE LARKSPUR LANE
MONTEREY, CA 93940
TEL: (831) 373-4390
ATTN: RON BLUE, PE

ELECTRICAL ENGINEER
ORTEGA CONSULTING ENGINEER
5 THIRD STREET - SUITE 716
SAN FRANCISCO, CA 94103
TEL: (415) 546-0490
ATTN: ARCHIE ORTEGA, PE

VICINITY MAP



DRAWING INDEX

ABBREVIATIONS

&	And	EL.	Elevation	JAN.	Janitor	REV.	Revision
∠	Angle	ELEC.	Electric/Electrical	JST.	Joist	RF.	Roof
@	At	ELEV.	Elevator	JT.	Joint	R.H.W.S.	Round Head Wood Screw
℄	Centerline	EMER.	Emergency	K.P.	Kick Plate	RM.	Room
C	Channel	ENCL.	Enclosure	LAM.	Laminated	R.O.	Rough Opening
Φ	Diameter or Round	ENGR.	Engineer	LAV.	Lavatory	RUB.	Rubber
⊥	Perpendicular	ENT.	Entrance	L.D.W.	Less Door Width	RWD.	Redwood
/	Per	EQ.	Equal	L.F.	Lineal Feet	RWL.	Rain Water Leader
#	Pound or Number	EQUIP.	Equipment	LG.	Long	S.	South
WF	Wide Flange	EST.	Estimate	LGTH.	Length	S.C.	Solid Core
(E)	Existing	EWC.	Electric Water Cooler	LWT.	Lightweight	SCH.	Schedule
A.B.	Anchor Bolt	EXIST.	Existing	MACH.	Machine	S.D.	Storm Drain
A.C.	Asphaltic Concrete	EXP.	Expansion	MAT.	Material	SECT.	Section
ACST.	Acoustic	EXT.	Exterior	MAX.	Maximum	SH.	Sheet
A.D.	Area Drain	F.B.	Flat Bar	MECH.	Mechanical	SHTHG.	Sheathing
ADJ.	Adjustable	F.D.	Floor Drain	MED.	Medium	SIM.	Similar
AGGR.	Aggregate	FDN.	Foundation	MEMB.	Membrane	S.N.D.	Sanitary Napkin Dispenser
ALUM.	Aluminum	F.E.	Fire Extinguisher	MET.	Metal	SPECS.	Specifications
APPROX.	Approximate	F.H.C.	Fire Hose Cabinet	MEZZ.	Mezzanine	SPR.	Sprinkler
ARCH.	Architect/Architectural	F.H.S.	Flat Head Screw	MFD.	Manufactured	S.S.F.H.	Stainless Steel Flat Head
ASPH.	Asphalt	F.H.W.S.	Flat Head Wood Screw	MH.	Manhole	SQ.	Square
AVG.	Average	FIN.	Finish	MIN.	Minimum	S.SK.	Service Sink
B.B.	Bulletin Board	FIX.	Fixture	MIR.	Mirror	S.ST.	Stainless Steel
BD.	Board	FL.	Floor	MISC.	Miscellaneous	STAG.	Staggered
BLDG.	Building	FLASH.	Flashing	M.O.	Masonry Opening	STD.	Standard
BLK.	Block	FLG.	Flooring	MOD.	Modular	STG.	Storage
BLKG.	Blocking	F.O.F.	Face Of Finish	MTG.	Mounting	STL.	Steel
BM.	Beam	F.O.S.	Face Of Stud	MUL.	Mullion	STR.	Structural
BOT.	Bottom	FPRF.	Fireproofing	N.	North	SUSP.	Suspended
BRZ.	Bronze	FRM.	Framing	NIC.	Not In Contract	SWBD.	Switchboard
CAB.	Cabinet	F.S.	Floor Sink	NO.	Number	SYM.	Symmetrical
C.B.	Catch Basin	FT.	Foot/Feet	NTS.	Not To Scale	T.	Tread
CEM.	Cement	FTG.	Footing	O.C.	On Center	TEL.	Telephone
CER.	Ceramic	FURR.	Furring	O.D.	Outside Diameter	TEMP.	Tempered
C.J.	Control Joint	FUT.	Future	O.F.	Outside Face	TER.	Terrazzo
CLG.	Ceiling	GA.	Gauge	OPNG.	Opening	T.& G.	Tongue and Groove
CLR.	Clear	GALV.	Galvanized	OPP.	Opposite	THK.	Thick
COL.	Column	G.B.	Grab Bar	OVFL.	Overflow	TRANS.	Transformer
CONC.	Concrete	GEN.	Generator	PAR.	Parallel	T.W.	Top of Wall
CONN.	Connection	G.I.	Galvanized Iron	PASS.	Passenger	TYP.	Typical
CONST.	Construction	GL.	Glass	PERP.	Perpendicular	U.O.N.	Unless Otherwise Noted
CONT.	Continuous	GR.	Grade	PL.	Plate/Property Line	UR.	Urinal
CONTR.	Contractor	GYP.	Gypsum	PLAS.	Plaster	VENT.	Ventilator
CORR.	Corridor	H.B.	Hose Bibb	PLMB.	Plumbing	VEST.	Vestibule
CSK.	Countersink	H.C.	Handicap/Hollow Core	PLSTC.	Plastic	V.W.C.	Vinyl Wall Covering
CTR.	Center	HDR.	Header	PLYWD.	Plywood	W.	West
DBL.	Double	HDW.	Hardware	PR.	Pair	W/	With
DEPT.	Department	HDWD.	Hardwood	PRCST.	Pre-cast	W.C.	Water Closet
D.F.	Drinking Fountain	H.M.	Hollow Metal	PROP.	Property	WD.	Wood
DET.	Detail	HORIZ.	Horizontal	P.O.C.	Point of Connection to (E)	W.H.	Water Heater
DIA.	Diameter	HR.	Hour	P.T.D.	Paper Towel Dispenser	W/O	Without
DIM.	Dimension	HT.	Height	PTN.	Partition	WP.	Waterproof
DISP.	Dispenser	I.D.	Inside Diameter	R.	Radius/Riser	WT.	Weight
DN.	Down	I.F.	Inside Face	R.D.	Roof Drain	W.W.F.	Welded Wire Fabric
DR.	Door	INCL.	Include	RECT.	Rectangle		
DWG.	Drawing	INFO.	Information	RED.	Reducer		
DWL.	Dowel	INSUL.	Insulation	REF.	Reference/Refrigerator		
EA.	Each	INT.	Interior	REINF.	Reinforcing		
E.	East	INTER.	Intermediate	REQD.	Required		
E.J.	Expansion Joint						

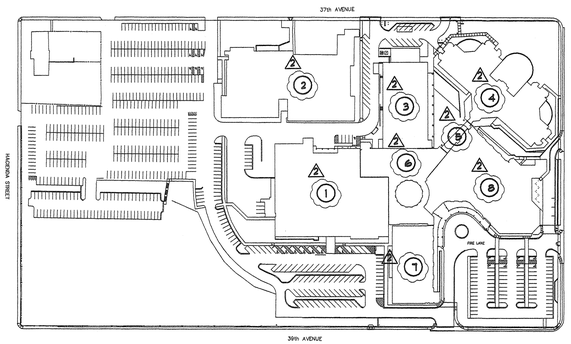
OVERALL SITE PLAN

1. ADMINISTRATION BLDG.
B OCCUPANCY
TYPE II – FR CONSTRUCTION
FULLY SPRINKLERED
3 STORIES + BASEMENT
88,170 GROSS SQ.FT.
OSHPD BLD-00854

2. HEALTH ADMIN BUILDING
B OCCUPANCY (W/MINOR A3)
TYPE V – FR CONSTRUCTION
NON SPRINKLERED
3.5 STORIES
OSHPD BLD-00855

3. CENTRAL PLANT BUILDING
B OCCUPANCY (W/H4 SHOP)
TYPE III CONSTRUCTION
FULLY SPRINKLERED
1 STORIES + 5
18,500 GROSS SQ.FT.
OSHPD BLD-00856

4. NURSING WING
I-1 & I-2 OCCUPANCY
TYPE I – FR CONSTRUCTION
FULLY SPRINKLERED
4 STORIES
100,000 GROSS SQ.FT.
OSHPD BLD-00857



5. NURSING WING LINK
I-2 OCCUPANCY
TYPE I – FR CONSTRUCTION
FULLY SPRINKLERED
OSHPD BLD-00858

6. NORTH ADDITION BUILDING
I-2 OCCUPANCY
TYPE I – FR CONSTRUCTION
FULLY SPRINKLERED
2.5 STORIES
42,000 GROSS SQ.FT.
OSHPD BLD-00859

7. CLINIC BUILDING
B OCCUPANCY
TYPE II – 1HR CONSTRUCTION
FULLY SPRINKLERED
3 STORIES
45,000 GROSS SQ.FT.
OSHPD BLD-02635

8. DIAGNOSTIC & TREATMENT BLDG.
I-2 OCCUPANCY
TYPE I – FR CONSTRUCTION
FULLY SPRINKLERED
2 STORIES
66,000 GROSS SQ.FT.
OSHPD BLD-02636

AGENCY APPROVAL STAMP

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
FEB 25 2015
Office of Statewide Health Planning & Development
FACILITIES DEVELOPMENT DIVISION

RCG ARCHITECTURE
1900 S. Norfolk St.
Suite 216
San Mateo, CA 94403
Tel: (650) 349-6549
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ROBERT C. GOOYER, AIA, FHFI
REGISTERED ARCHITECT
#C - 011,242

STATE OF CALIFORNIA REGISTERED PROFESSIONAL ARCHITECT ROBERT CORNELIUS GOOYER C-011242 EXP. 6/30/15

Revisions:	
PC COMMENTS 10-01-14	1
PC COMMENTS 01-20-15	2

OSHPD# 514067I-41

1

TITLE SHEET & VICINITY MAP

2nd FLOOR POST-OP RECOVERY EXPANSION
SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

25 E6.1

PROJECT NUMBER 12941

Date: 01-15-14
Scale: 1/8"=1'-0"
Sheet No. A0.0
of:

GENERAL NOTES

14. APPROVAL

A. THE TYPE OF APPROVAL TO BE ISSUED BY OSHPD FOR THIS PROJECT IS:
   1. NON-STRUCTURAL ALTERATION

15. DUST CONTROL PROGRAM

A. INFECTION CONTROL MEASURES DURING CONST. SHALL BE IMPLEMENTED AS REQUIRED BY THE FACILITIES INFECTION CONTROL STAFF (TITLE 22, SECTION 70738(b)). PRIOR TO CONSTRUCTION, ALL REQUIRED TEMPORARY INSTALLATIONS, INCLUDING DETAILS OF INFECTION CONTROL MEASURES SUCH AS TEMP. BARRIERS AND MEMBRANES, PORTABLE EXHAUST FANS AND TEMPORARY DUCTWORK, MUST BE SHOWN ON THE PLANS OR REVIEWED BY OSHPD FIELD STAFF. TEMPORARY CONSTRUCTION BARRIERS MUST COMPLY W/ CODE APPLICATIONNOTICE NO: 2-140. TEMPORARY INSTALLATIONS MUST NOT HAVE A NEGATIVE IMPACT ON EXISTING SYSTEMS NOR CAUSE UNSAFE CONDITIONS. TEMPORARY INSTALLATIONS SHALL MAINTAIN ADEQUATE EGRESS IN COMPLIANCE WITH THE 2013 CBC AND SHALL NOT OBSTRUCT EXISTING EXITS, CREATE A FIRE HAZARD OR REDUCE REQUIRED FIRE RESISTANCE. TEMPORARY VENTILATION SYSTEMS SHALL NOT CAUSE THE AIR BALANCE OF ADJACENT ROOMS OR SPACES TO BE IMPACTED OR ALTER THE PERFORMANCE OF PERMANENT BUILDING VENTILATION SYSTEMS. AIRFLOW MEASUREMENTS SHALL BE TAKEN TO VERIFY ADJACENT ROOMS OR SPACES ARE NOT IMPACTED. (CODE APPLICATION NOTICE NO: 2-102.6).

H. WORK EXEMPT FROM PERMIT BY THE CBC 2013 SECTION 1052 (OR ASCE 7-05 SECTION 13.1.4 NEED NOT BE DETAILED ON THE CONSTRUCTION DOCUMENTS. EXEMPTIONS FROM PERMIT REQUIREMENTS OF THE CODE SHALL NOT BE DEEMED TO GRANT AUTHORIZATION FOR ANY WORK TO BE DONE IN ANY MANNER IN VIOLATION OF THE PROVISIONS OF THIS CODE OR ANY OTHER LAWS OR ORDINANCES OF THIS JURISDICTION. THE INSPECTOR OF RECORD (IOR) SHALL ASSURE THAT THE ABOVE REQUIREMENTS ARE ENFORCED.

7. SPECIAL INSPECTION

A. THE INSTALLATION AND OPERATION OF THE OXYGEN AND MEDICAL GAS SYSTEMS MUST BE CHECKED AND APPROVED PRIOR TO OPERATION BY THE OSHPD FIRE MARSHAL, IN ACCORDANCE WITH CURRENT CODE.

8. ACCESSIBILITY LAW COMPLIANCE

A. IF PATH OF TRAVEL FROM PARKING TO PROJECT AREA IS FOUND NOT TO COMPLY W/ SECTION 1134B.2, 2013 CBC, THE ITEMS WILL BE CORRECTED PRIOR TO FINAL ACCEPTANCE OF THE PROJECT BY OSHPD.

B. WITH CHAPTER 11A OR 11B OF THE C.B.C. AND THE AMERICANS WITH DISABILITY ACT.

C. SEE PLANS FOR PATH OF ACCESS PLAN.

D. SEE PLANS FOR ACCESSIBLE RESTROOMS & MISCELLANEOUS REQUIREMENTS.

9. FINISHES

A. EXCEPT AS OTHERWISE NOTED FOR CORRIDORS, ALL INTERIOR WALL & CEILING FINISHES SHALL NOT EXCEED AN END POINT FLAME SPREAD RATING OF 75 (CLASS II) OR SMOKE DEVELOPMENT OF 450.

B. INTERIOR WALL AND CEILING FINISHES OF EXIT CORRIDORS SHALL NOT EXCEED AN END POINT FLAME SPREAD RATING OF 25 (CLASS I) OR SMOKE DEVELOPMENT OF 450.

C. ANY DECORATIONS USED SHALL BE NON-COMBUSTIBLE OR FLAME PROOFED IN AN APPROVED MANNER.

D. ALL FLOOR FINISHES SHALL HAVE A RADIANT PANEL FLUX W/ A MINIMUM OF .45 WATTS/SQ. CENTIMETER IN UNSPRINKLERED BUILDINGS, AND A MINIMUM OF .22 WATTS/ SQ. CENTIMETER IN ALL SPRINKLERED BUILDINGS.

E. PAINT INTERIOR SURFACES OF DUCTS WHERE VISIBLE THROUGH REGISTERS OR GRILLES, WITH A FLAT NON-SPECULAR BLACK PAINT.

10. EXISTING CONDITIONS

A. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO RECONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE 2013 CALIFORNIA BLDG. STANDARDS CODE, TITLES 19 & 24 CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED PLANS AND SPECIFICATIONS THEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK. REQUIRED BY C.C.R. TITLE 24, PART 1, SECTION 7-126(a).

B. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE JOB.

11. INSPECTION

A. A PROJECT INSPECTOR EMPLOYED BY THE OWNER AND APPROVED BY OSHPD SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN PART 1, TITLE 24, CCR.

12. CHANGE ORDERS

A. CHANGES IN THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR CHANGE ORDER APPROVED BY OSHPD, AS REQUIRED BY PART 1, TITLE 24, CCR.

13. DEFERRED APPROVALS

A. INSTALLATION OF THE FOLLOWING ITEMS SHALL NOT BE STARTED UNTIL DETAILED PLANS, SPECIFICATIONS AND ENGINEERING CALCULATIONS HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER IN GENERAL CHARGE OF DESIGN AND THE PROFESSIONAL ENGINEER WHO HAS BEEN DELEGATED RESPONSIBLE FOR THE WORK SHOWN ON A PARTICULAR PLAN OR SPECIFICATION ABD APPROVED BY OSHPD.

1. FIRE ALARM SYSTEM
2. FIRE SPRINKLER SYSTEM
3. ANCHORAGE AND BRACING OF PIPES, DUCT WORK & CONDUITS.

ALL REFERENCES TO FIRE ALARMS ON THESE DRAWINGS SHALL BE USED FOR BIDDING PURPOSES ONLY AND SHALL NOT BE USED FOR CONSTRUCTION. FIRE ALARM SYSTEM SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT WITH A NOTATION INDICATING THE SHOP DRAWINGS HAVE BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING OR PROJECT. THE RESPONSIBILITY FOR PREPARING AND SIGNING PLANS AND SPECIFICATIONS OR REPORTS FOR THE FIRE ALARM PORTIONS MAY BE DELEGATED BY THE ARCHITECT OR STRUCTURAL ENGINEER IN GENERAL RESPONSIBLE CHARGE, TO A PROFESSIONAL ENGINEER REGISTERED IN THE APPROPRIATE BRANCH OF ENGINEERING. THE INSTALLATION OF FIRE ALARM SYSTEMS SHALL NOT COMMENCE UNTIL THE SHOP DRAWINGS ARE APPROVED BY OSHPD.

ALL REFERENCES TO FIRE SPRINKLER SYSTEMS, UNDERGROUND FIRE SERVICE MAINS, STAND PIPE SYSTEMS, OR SPECIAL FIRE SUPPRESSION SYSTEMS ON THESE DRAWINGS SHALL BE USED FOR BIDDING PURPOSES ONLY AND SHALL NOT BE USED FOR CONSTRUCTION. FIRE PROTECTION SYSTEM SHOP DWGS. SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT WITH A NOTATION INDICATING THE SHOP DRAWINGS HAVE BEEN REVIEWED AND HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING OR PROJECT. THE RESPONSIBILITY FOR PREPARING AND SIGNING PLANS AND SPECS. OR REPORTS FOR THE FIRE PROTECTION SYSTEM MAY BE DELEGATED BY THE ARCHITECT OR STRUCTURAL ENGINEER IN GENERAL RESPONSIBLE CHARGE, TO A PROFESSIONAL ENGINEER REGISTERED IN THE APPROPRIATE BRANCH OF ENGINEERING. THE INSTALLATION OF THE FIRE PROTECTION SYSTEM SHALL NOT COMMENCE UNTIL THE SHOP DRAWINGS ARE APPROVED BY OSHPD.

15. PENETRATIONS THROUGH FIRE RATED CONSTRUCTION

A. PROVIDE APPROVED COMBINATION SMOKE/FIRE DAMPERS WHERE DUCTS PENETRATE FIRE RATED PARTITIONS. WHERE DUCTS PENETRATE SMOKE SEPARATIONS, DUCTS SHALL HAVE SMOKE/FIRE DAMPERS OPERATED BY SMOKE DETECTORS IN DUCTS.

WHERE DUCTS PENETRATE PROTECTIVE ELEMENTS OF FIRE RATED CORRIDOR WALLS/CEILINGS, DUCTS SHALL HAVE COMBINATION SMOKE/FIRE DAMPERS OPERATED BY IN-DUCT SMOKE DETECTORS.

B. PENETRATIONS THROUGH RATED WALLS AND ALL FLOORS SHALL BE SEALED W/ A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC OR FIRE STOPS ASTM-E-814. GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL PROVIDE A PRODUCT WHICH MEETS THIS REQUIREMENT. SEALANTS SHALL MEET T-H RATINGS.

THROUGH PENETRATIONS OF FIRE RATED WALLS SHALL BE IN ACCORDANCE WITH C.B.C. SECTION 714.3.1.

THROUGH PENETRATIONS OF FLOORS SHALL BE IN ACCORDANCE W/ C.B.C. SECTIONS 713 & 714.4.1.

16. ANCHORAGE AND BRACING

A. ALL LIGHTWEIGHT, LAY-IN PANEL TYPE CEILINGS SHALL BE SEISMICALLY BRACED AS DETAILED. LAY-IN PANEL CEILINGS IN CORRIDORS SHALL HAVE THE ADDITIONAL REQUIREMENTS INDICATED.

B. ALL NEW WALL AND/OR CEILING MOUNTED CASEWORK, ACCESSORIES AND EQUIPMENT SHALL HAVE STEEL BACKING. REFER TO DETAILS FOR SPECIFIC REQUIREMENTS.

C. ALL FIELD INSTALLED CONCRETE EXPANSION ANCHORS SHALL BE APPROVED FOR THE TYPE OF INSTALLATION, FOR ITS APPLICATION, AND MATERIALS. ALL BOLTS SHALL HAVE AN APPROVED ICBO RESEARCH REPORT NUMBER 4627

ALL ANCHORS SHALL BE TESTED AS FOLLOWS (HARDROCK OR LIGHTWEIGHT CONCRETE):

ANCHOR DIA. (IN.)	INSTALLATION TEST TORQUE (LBS.)	TENSION TEST LOAD (LBS.)
3/8	25	2,204
1/2	40	4,712
5/8	60	6,602
3/4	110	8,544

MINIMUM EMBEDMENT AND EDGE DISTANCES ARE AS FOLLOWS:

BOLT DIAMETER (d)	3/8"	1/2"	5/8"	3/4"
MIN. EMBEDMENT (>d)	2"	3-1/4"	4"	4-3/4"
SHALLOW ANCHORAGE				

SEE STRUCTURAL DRAWINGS, IF APPLICABLE TO PROJECT, FOR ADDITIONAL REQUIREMENTS AS NEEDED.

D. ALL POWDER ACTUATED FASTENERS SHALL BE APPROVED FOR TYPE, APPLICATION AND INSTALLATION AND SHALL HAVE AN APPROVED ICBO RESEARCH REPORT NUMBER.

THE USE OF POWDER DRIVEN FASTENERS, IN TENSION, IS LIMITED TO SUPPORT OF MINOR LOADS SUCH AS ACOUSTICAL CEILINGS, DUCT WORK, CONDUIT ETC. IN GENERAL, LOAD SHOULD BE LIMITED TO LESS THAN 100 POUNDS UNLESS APPROVED BY THE STRUCTURAL ENGINEER.

MINIMUM DISTANCE FROM THE EDGE OF CONCRETE TO CENTER OF ANCHOR IS 3 INCHES.

FASTENERS SHALL BE INSTALLED BY A PRE-QUALIFIED OPERATOR, ACCORDING TO THE ICBO RESEARCH REPORT AND TESTED AS FOLLOWS:

INSPECTOR OF RECORD (IOR) SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS. A TEST "PULL-OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD, OR 2000 LBS., WHICHEVER IS GREATER, SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN. RANDOM TESTS UNDER THE IOR'S SUPERVISION SHALL BE MADE OF APPROX. 1" IN 10 PINS, EXCEPT WHEN THE DESIGN LOAD IS 100 LBS., ONE HALF OF THE PINS SHALL BE TESTED. SHOULD FAILURE OCCUR ON ANY PIN TESTED, ALL OF THE NEXT 20 INSTALLATIONS MUST BE TESTED AND UNFAIR PINS REPLACED.

E. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN (E) NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRE STRESSED CONCRETE (PRE- OR POST TENSIONED), LOCATE THE PRESTRESSED TENDON BY USING A NONDESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A CLEARANCE OF 1" BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR & PIN.

F. DESIGN FORCES FOR PIPES, DUCTWORK, AND CONDUIT SHALL BE COMPUTED PER SECTION 13.3.1, ASCE 7-10 OF THE 2013 CBC. PROVIDE ANCHORAGE DETAILS AND CALCS. FOR THE CONNECTION OF THE BRACING TO THE STRUCTURE AND SPACING OF THE BRACES FOR EACH SYSTEM. ALTERNATIVELY, AN OSHPD PRE-APPROVAL ANCHORAGE SYSTEM SUCH AS B-LINE PRE-APPROVED SYSTEM MAY BE USED FOR THE SUPPORTS AND BRACES. PLANS SHOWING HOW AND WHERE THE PRE-APPROVED ANCHORAGE AND BRACING SYSTEMS WILL BE APPLIED TO EACH SYSTEM WILL BE APPLIED TO EACH SYSTEM ARE REQUIRED. ALL SHOP DRAWINGS FOR EACH SYS. SHALL BE SUBMITTED TO THE EOR FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND/OR INSTALLATION. APPROVED SHOP DRAWINGS SHALL BE FORWARDED TO OSHPD.

G. THE SPACING AND THE DETAILS OF THE SUPPORT AND BRACING OF FIRE SPRINKLER PIPING SHALL COMPLY W/ THE 2013 EDITION OF NFPA 13, AS AMENDED IN CHAPTER 35 OF THE 2013 CALIFORNIA BUILDING CODE, AND CHAPTER 13 OF ASCE 7 AS MODIFIED BY THE CBC 2013 SECTIONS 1613/ 1617B AND SFM AMENDMENTS. PROVIDE DETAILS AND CALCULATIONS FOR THE SWAY BRACING AND THEIR ANCHORAGES TO THE STRUCTURE. DESIGN LOADS FOR THE DESIGN OF THE SWAY BRACING AND ANCHORAGES SHALL BE COMPUTED PER SECTION 13.6.8.3 OF THE ASCE 7. WHERE APPLICABLE, DETAILS FOR THE SUPPORT AND BRACING MAY BE REFERRED TO AN OSHPD PRE-APPROVED ANCHORAGE SYSTEM. ALL SHOP DRAWINGS OF THE SPRINKLER SYSTEM SHALL BE SUBMITTED TO OSHPD FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. THE ALLOWABLE VALUES FOR ANCHORS AND BRACING FROM NFPA 13 SHALL NOT BE USED. REFER TO THE APPROPRIATE 2013 CBC MATERIAL CHAPTERS FOR ALLOWABLE LOADS ON THE SPECIFIC SYSTEMS.

THE PROJECT AS CONSTRUCTED SHALL COMPLY WITH THE FOLLOWING GENERAL NOTES. ANY MORE RESTRICTIVE REQUIREMENTS INDICATED WITHIN THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE OVER THE GENERAL NOTES.

1. CODE COMPLIANCE

A. CONSTRUCTION SHALL CONFORM TO ALL GOVERNMENTAL AGENCIES AND CODES HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO:

2013 CALIFORNIA ADMINISTRATIVE CODE (CAC)
PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

2013 CALIFORNIA BUILDING CODE (CBC)
PART 2, TITLE 24, CCR
(2012 IBC AND 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA ELECTRICAL CODE (CEC)
PART 3, TITLE 24, CCR
(2011 NEC AND 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA MECHANICAL CODE (CMC)
PART 4, TITLE 24, CCR
(2012 UMC AND 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA PLUMBING CODE (CPC)
PART 5, TITLE 24, CCR
(2012 UPC AND 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA FIRE CODE (CFC)
PART 9, TITLE 24, CCR
(2012 IFC AND 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA GREEN BUILDING STANDARDS CODE
PART 11, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

2013 CALIFORNIA REFERENCED STANDARDS CODE
PART 12, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

ENFORCEMENT INCLUDES ALL OTHER CODES REFERENCED IN THE ABOVE MODEL CODES.

B. THE CONTRACTOR SHALL COMPLY W/ ALL APPLICABLE CONSTRUCTION SAFETY ORDERS.

C. ALL WORK SHALL CONFORM TO REQUIREMENTS FOR TYPE I CONSTRUCTION.

D. WHERE CONFLICTING INFORMATION IS SHOWN IN THE CONSTRUCTION DOCUMENTS (PLANS, SPECIFICATIONS, ETC.) THE CONTRACTOR SHALL ASSUME THE MOST RESTRICTIVE AND MOST EXPENSIVE CONDITION APPLIES. CONT. SHALL NOTIFY ARCHITECT OF ANY CONFLICTING INFORMATION AT TIME OF DISCOVERY.

2. LAYOUT

A. PRIOR TO INSTALLATION OF NEW FRAMING (INCLUDING TRACKS) OR OTHER NEW WORK, THE CONTRACTOR SHALL LAYOUT ALL NEW WALLS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN FOR NEW WALL LOCATIONS AND OTHER CLEARANCES INDICATED. ANY DIMENSIONAL DISCREPANCIES OR FIELD CONDITIONS ENCOUNTERED WHICH CONFLICT W/ THE LAYOUT AND DIMENSIONS INDICATED ON THESE PLANS SHALL BE REVIEWED BY THE ARCHITECT. INITIAL LAYOUT AND ANY SUBSEQUENT ADJUSTMENTS SHALL BE PART OF THE WORK AND SHALL BE INCLUDED IN THE BID AMOUNT OF THE CONTRACTOR.

B. ALL DIMENSIONS ARE TO FACE OF STUD OR COLUMN GRIDLINE, UNLESS OTHERWISE NOTED. DIMENSIONS NOTED AS "CLEAR" SHALL BE FROM FACE OF WALL FINISH, EDGE OF CASEWORK, FIXTURE OR EQUIPMENT. DIMENSIONS INDICATED AS "VERIFY" REQUIRE VERIFICATION BY THE CONT. THAT THE CLEARANCES INDICATED ARE ADEQUATE TO ACCOMMODATE CONTRACTOR OR OWNER FINISHED EQUIPMENT, FURNITURE, ETC. OR FOR ALIGNMENT WITH EXISTING CONDITIONS.

3. EXITS AND CORRIDORS

A. ALL EXITS SHALL BE OPENABLE FROM THE INSIDE WITHOUT USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFECT.

B. CORRIDORS SHALL BE ONE HOUR CONSTRUCTION. ALL DOOR OPENINGS ON CORRIDORS SHALL BE A MINIMUM OF 1-3/4" THICK SOLID WOOD OR PARTICLE CORE, 20-MINUTE RATED, UNLESS NOTED OTHERWISE, SELF-CLOSING ASSEMBLIES, HUNG IN 16 GAUGE STEEL FRAMES. DOORS SHALL BE GASKETED AT JAMB AND HEAD STOPS, AS REQUIRED FOR AN "S" LABEL SMOKE AND DRAFT CONTROL ASSEMBLY AS PER C.B.C 1008.1.

C. IN FULLY SPRINKLERED BUILDINGS, WINDOWS IN 1 HR CORRIDOR WALLS SHALL BE 1/4" THICK TEMPERED GLASS IN 16 GAUGE LABELED STEEL FRAMES. WINDOW GLASS PANELS SHALL NOT EXCEED 1296 SQUARE IN. IN AREA AND NO GLASS DIMENSION SHALL EXCEED 54". TOTAL WINDOW AREA IN THE WALL OF A ROOM SHALL NOT EXCEED 25% OF THE AREA OF THE WALL COMMON WITH A CORRIDOR OTHERWISE THE WINDOW SHALL HAVE 1/4" THICK LABELED CLEAR WIRE GLASS.

D. EXIT CORRIDORS SHALL BE ILLUMINATED WITH LIGHT INTENSITY OF NOT LESS THAN ONE FOOT CANDLE AT FLOOR LEVEL. EXIT ILLUMINATION SHALL BE PROVIDED WITH TWO SEPARATE SOURCES OF POWER (ONE SOURCE ON EMERGENCY POWER). SEE ELECTRICAL DRAWINGS.

E. EXIT SIGNS SHALL BE SELF-ILLUMINATED, U.L. LISTED AND CONFORM TO 2013 CBC AND CFC.

4. FIRE PROTECTION

A. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2A 10 BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILDING ON EACH FLOOR. FIRE EXTINGUISHER CABINETS AND FIRE EXTINGUISHERS SHOWN ON THESE DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR.

B. IN RENOVATION AREAS MODIFY THE EXISTING FIRE-SPRINKLER SYSTEM AS REQUIRED FOR THE FULL COVERAGE OF WORK AREA AND/OR PROVIDE NEW AUTOMATIC FIRE SPRINKLER SYSTEM AS REQUIRED FOR FULL COVERAGE OF ALTERED WORK. SUBMIT COMPLETE FIRE SPRINKLER PLANS AND OBTAIN APPROVAL, FROM THE OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT (OSHPD) FIRE MARSHAL, PRIOR TO INSTALLATION OF FIRE SPRINKLERS. FIRE SPRINKLERS SHALL BE INSTALLED IN ACCORDANCE W/ CBC & CFC. PLANS SHALL BE SIGNED BY C-16 FIRE SPRINKLER ENGINEER.

C. CONTRACTOR SHALL PATCH AND REPAIR EXISTING FIREPROOFING ON STRUCTURAL STEEL, THAT IS DAMAGED OR REMOVED DURING CONSTRUCTION. FIREPROOFING SHALL MATCH EXISTING OR BE EQUIVALENT AND COMPATIBLE WITH EXISTING.

D. STRUCTURAL STEEL NOT ENCASED IN CONCRETE, SHALL BE PROTECTED BY SPRAYED FIREPROOFING. PROTECTION SHALL CONFORM TO CBC CHAPTER 7 TABLE 721.1. APPLICATION, PREPARATION AND TESTING SHALL BE IN ACCORDANCE WITH U.L. LISTING FOR SPECIFIED FIREPROOFING.

E. SHOP DRAWINGS FOR FIRE ALARM SYSTEM SHALL BE SUBMITTED FOR OSHPD FIRE MARSHAL APPROVAL PRIOR TO INSTALLATION AND/OR MODIFICATION.

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
FEB 5 2015
Office of Statewide Health Planning & Development
FACILITIES DEVELOPMENT DIVISION

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STATE OF CALIFORNIA — REGISTERED PROFESSIONAL ARCHITECT — ROBERT CORNELIUS GOOYER — C-011242 EXP. 6/30/15

Revisions:	
FC COMMENTS 10-01-14	1
FC COMMENTS 01-20-15	2
OSHPD# 514067 1-41	

GENERAL NOTES & SYMBOLS

2nd FLOOR POST-OP RECOVERY EXPANSION

SAN MATEO MEDICAL CENTER
222 West 39th Avenue
San Mateo, CA 94403

PROJECT NUMBER 12941

Date: 01-15-14
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Sheet No. A0.1
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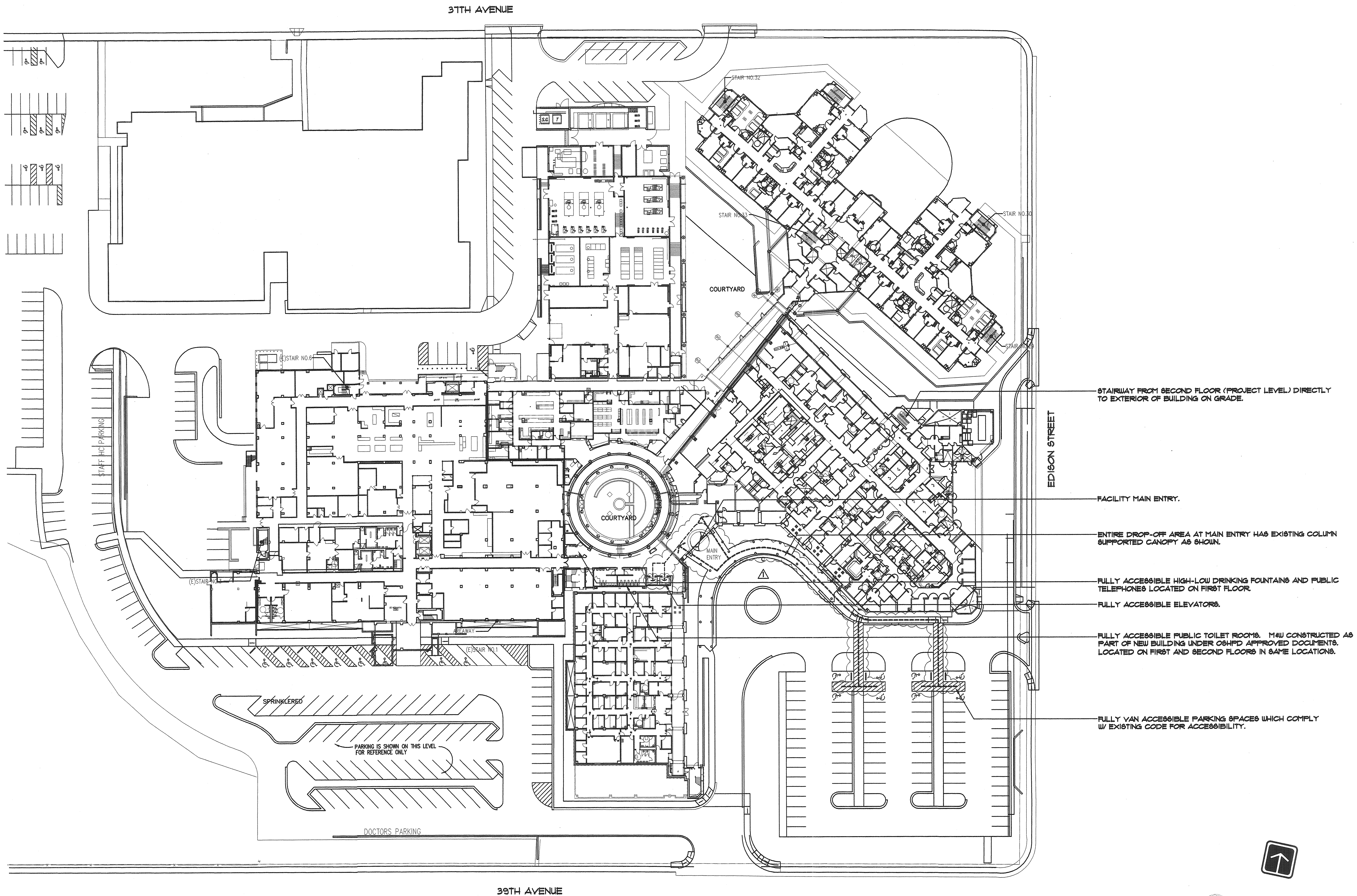

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Revisions:	
PC COMMENTS 10-01-14	1

OSHPD# S140671-41

FIRST FLOOR ACCESSIBILITY & EXITING

2nd FLOOR POST-OP RECOVERY EXPANSION

SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

PROJECT NUMBER
12941

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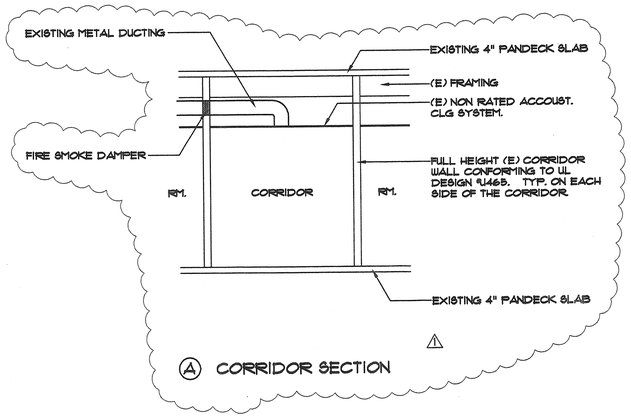
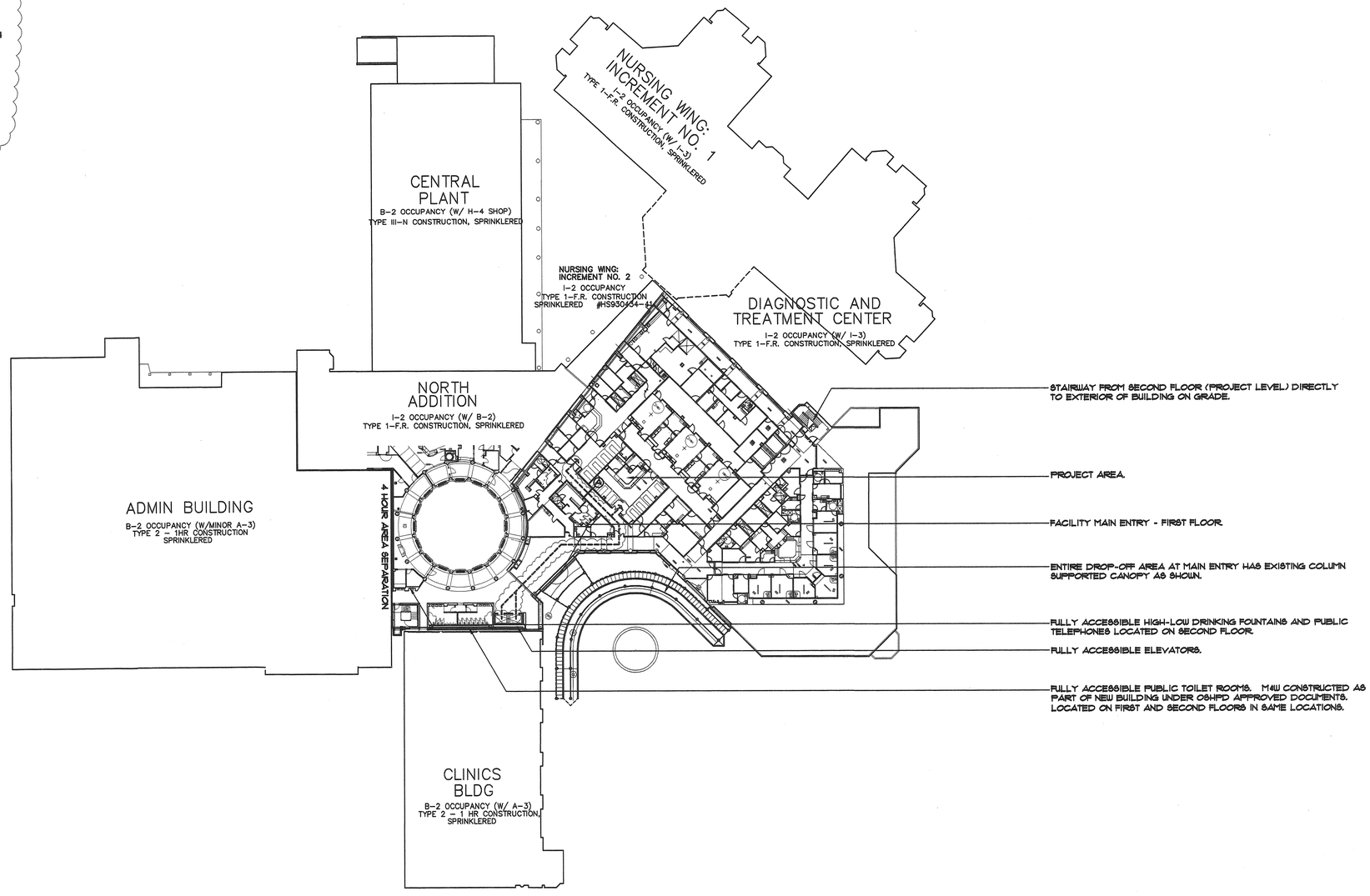


Ⓐ CORRIDOR SECTION



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Revisions:
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OSHPD# 514067 11-41	
	⚠

SECOND FLOOR ACCESSIBILITY & EXITING

2nd FLOOR POST-OP RECOVERY EXPANSION

SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

PROJECT NUMBER
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Date: 01-15-14
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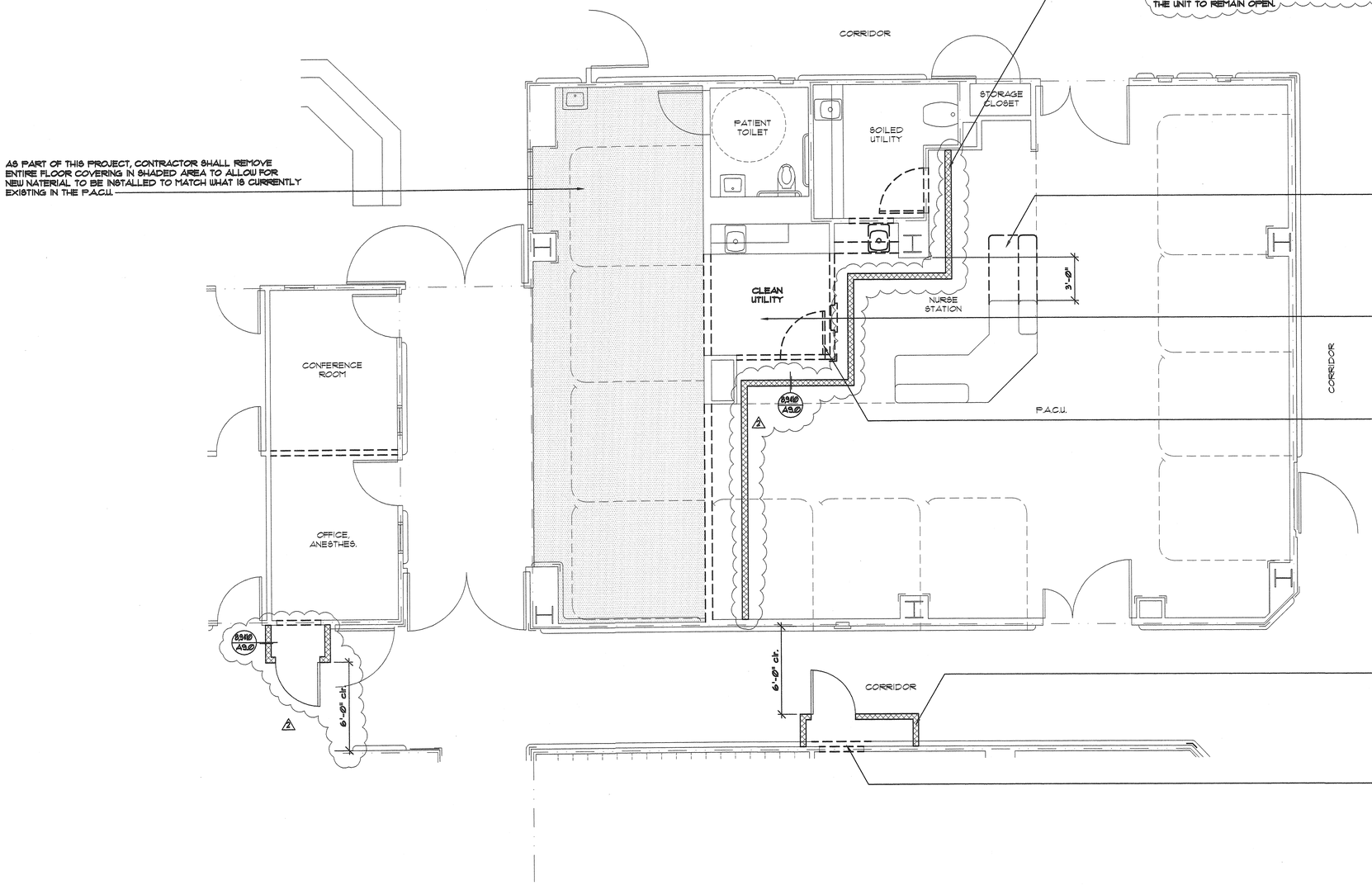

AS PART OF THIS PROJECT, CONTRACTOR SHALL REMOVE ENTIRE FLOOR COVERING IN SHADED AREA TO ALLOW FOR NEW NATERIAL TO BE INSTALLED TO MATCH WHAT IS CURRENTLY EXISTING IN THE P.A.C.U.

2 CONTRACTOR SHALL INSTALL FULL HEIGHT CONSTRUCTION BARRIER AS SHOWN INSIDE THE P.A.C.U. AS DETAILED ON SHEET A9.0. WALL SHALL BE FINISHED TO MATCH ADJACENT FINISHES AS REQUIRED FOR THE UNIT TO REMAIN OPEN.

CONTRACTOR SHALL SHORTEN EXISTING CASEWORK AS NEEDED TO ALLOW FOR THE PROPER CLEARANCES NEEDED TO CONSTRUCT THE LAYOUT AS SHOWN ON SHEET A2.0.

2 THIS WORK SHALL BE DONE AFTER HOURS AND THE ENTIRE AREA CLEANED AND MADE READY FOR OCCUPANCY THE FOLLOWING MORNING.

AS PART OF THIS PROJECT, CONTRACTOR SHALL REMOVE EXISTING ACOUSTICAL CEILING IN THE CLEAN UTILITY ROOM BEING DEMO'D BUT RETAIN THE ENTIRE SUPPORT ASSEMBLY INCLUDING CLIPS, WIRES AND BRACING TO ALLOW THEM TO BE USED TO INSTALL NEW ACOUSTICAL CEILING SYSTEM.

DARKER DASHED LINES REPRESENT WALLS, FIXTURES, FLOORING, CEILING ETC. TO BE REMOVED AS PART OF THIS PROJECT.

FOR CONSTRUCTION OF THE REQUIRED TEMPORARY PARTITIONS IN THE EXIT CORRIDOR, SEE DETAILS 8,9&10/A9.0 FOR COMPLETE CALLOUT.

ACCESS DOOR SHALL BE OF 2Ø MIN. CONSTRUCTION TO MATCH ALL OTHER CORRIDORS.

AS PART OF THIS PROJECT, CONTRACTOR SHALL REMOVE A SECTION OF WALL AND A 4' SECTION OF EXISTING HANDRAIL TO ALLOW FOR THE INSTALLATION OF A NEW ACCESS DOOR.

GENERAL DEMOLITION NOTES:

CHAPTER 33 FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION

1. DURING ENTIRE COURSE OF CONSTRUCTION, ALTERATION AND DEMOLITION CONTRACTOR SHALL COMPLY WITH NFPA 241.

2. CONTRACTOR SHALL CONFORM TO CHAPTER 33 - SAFEGUARDS DURING CONSTRUCTION - FOR THE ENTIRE SPAN OF THE PROJECT.

3. CONTRACTOR SHALL MAINTAIN A SAFE MEANS OF EGRESS DURING CONSTRUCTION AND DEMOLITION CAN 9-14Ø1.

4. SMOKING SHALL BE PROHIBITED EXCEPT IN APPROVED AREAS. SIGNAGE SHALL BE POSTED IN ACCORDANCE W/ SECTION 31Ø.

5. COMBUSTIBLE DEBRIS SHALL NOT BE ACCUMULATED WITHIN BLDG. COMBUSTIBLE DEBRIS, RUBBISH AND WASTE MATERIAL SHALL BE REMOVED FROM BUILDING AT THE END OF EACH SHIFT OF WORK. COMB. MATERIALS SHALL NOT BE DISPOSED OF BY BURNING ON THE SITE.

6. MATERIALS SUSCEPTIBLE TO SPONTANEOUS IGNITION, SUCH AS OILY RAGS, SHALL BE STORED IN A LISTED DISPOSAL CONTAINER.

7. WHEN REQUIRED BY THE FIRE CODE OFFICIAL, FOR BUILDING DEMO OR CONSTRUCTION THAT IS HAZARDOUS IN NATURE, QUALIFIED PERSONNEL SHALL BE PROVIDED TO SERVE AS AN ON-SITE FIRE WATCH. SEE PIN 14 FOR COMPLETE CALLOUT.

8. TEMPORARY WIRING FOR ELECTRICAL POWER AND LIGHTING DURING DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH CALIFORNIA ELECTRICAL CODE.

9. SEE DETAIL 1Ø/A9.Ø FOR COMPLETE CALLOUT OF REQUIRED PRECAUTIONS FOR THE INSTALLATION AND USE OF TEMPORARY CONSTRUCTION BARRIERS AND FIRE SAFETY.

1Ø. SMOKE COMPARTMENTS AND REFUGE AREAS IN COMPLIANCE W/ SECT. 4Ø1 SHALL BE MAINTAINED THROUGHOUT THE PERIOD OF CONSTRUCTION.

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
FEB 25 2015
Office of Statewide Health Planning & Development
FACILITIES DEVELOPMENT DIVISION

WALL LEGEND:

- EXISTING WALLS TO BE DEMOLISHED
- EXISTING WALLS TO REMAIN
- 2 (E) 1 HR. RATED FIRE PARTITION W/ 2Ø MIN. DOORS. AS PER UL DESIGN U465 OR TABLE T721 13-1.3 OF 2013 CBC. (IN AREAS SURROUNDING A SUITE, 45 MIN. DOOR ASSEMBLIES SHALL BE REQ'D.)
- (N) TEMPORARY CONSTRUCTION BARRIERS CONSTRUCTED AS OUTLINED ON SHEET A9.0 DETAILS 8, 9 & 1Ø.

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Revisions:
- PC COMMENTS 10-01-14 — 1
- PC COMMENTS 01-20-15 — 2

OSHPD# 5140671-41

DEMOLITION PLAN

2nd FLOOR POST-OP RECOVERY EXPANSION

SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

PROJECT NUMBER 12941

Date: Ø1-15-14
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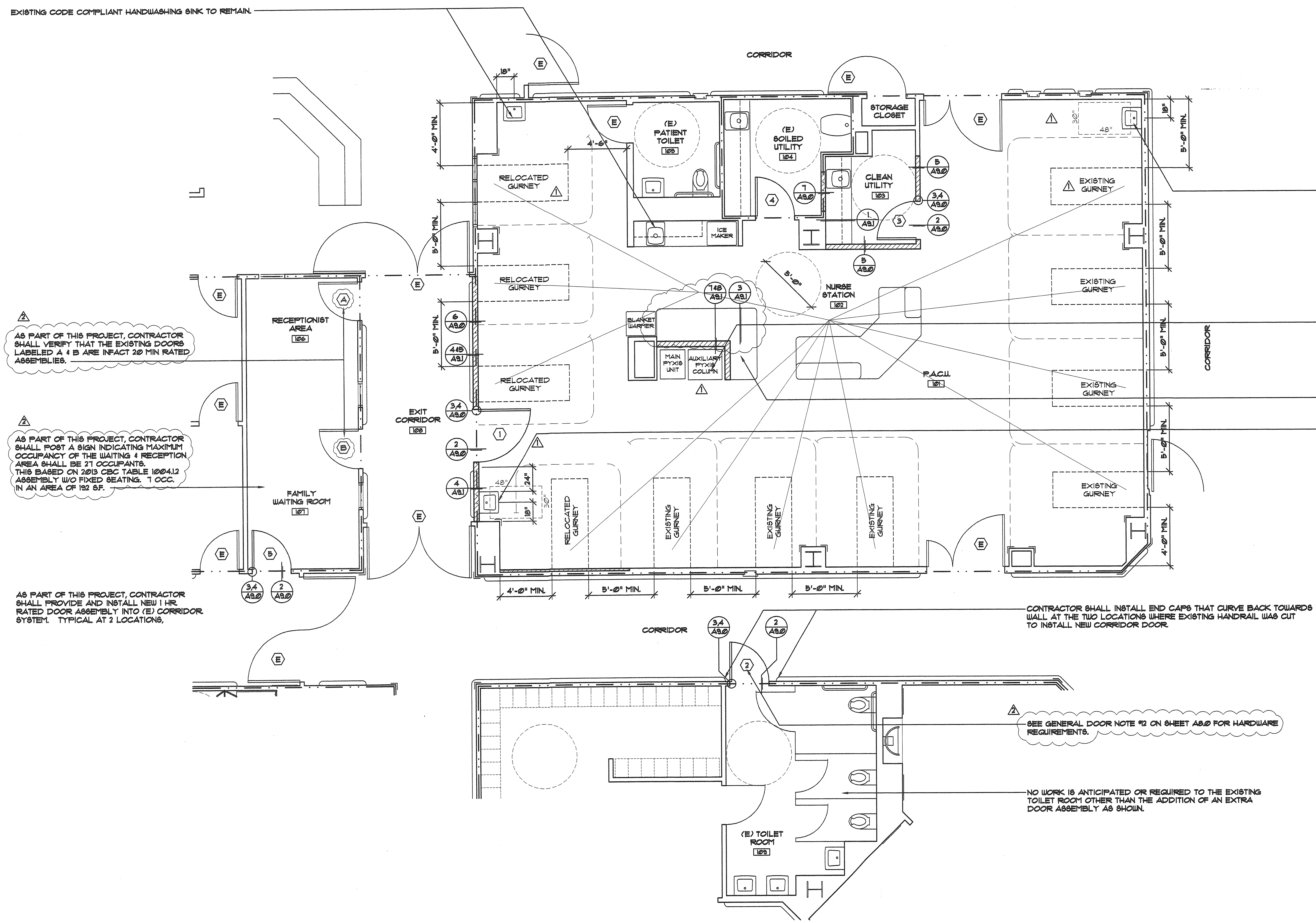

GENERAL NOTES:

1. SEE SEPARATE DRAWING FOR PROJECT SPECIFICATIONS.

2. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND INFORM ARCHITECT IN WRITING OF ALL DISCREPANCIES AND VARIATIONS IN THE DRAWINGS PRIOR TO START OF FABRICATION OR INSTALLATION OF THE WORK.

3. IT IS THE OWNER'S REQUIREMENT THAT THE WORK BE CONSTRUCTED AS INDICATED IN THE CONSTRUCTION DOCUMENTS AND AS APPROVED BY GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE PROJECT INCLUDING OSHPD. NO VARIATION SHALL BE PERMITTED EXCEPT BY CHANGE ORDER PROCESS.

4. THERE IS NO PRIORITY OR EXCLUSIVENESS WITHIN THE CONTRACT DOCUMENTS. WHAT IS REQUIRED OF ONE SHALL BE REQUIRED BY ALL.

5. ALL WALLS ASSOCIATED WITH THIS PROJECT SHALL BE PAINTED OR REPAINTED.

6. SEE STRUCTURAL MECHANICAL AND ELECTRICAL DRAWINGS FOR INFORMATION NOT INDICATED ON ARCHITECTURAL DRAWINGS.

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APPROVED
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FACILITIES DEVELOPMENT DIVISION

P.A.C.U. OCCUPANT LOAD:

BASED ON TABLE 1004.1.2 OF THE 2013 CBC, OUTPATIENT AREAS IN AN INSTITUTIONAL SETTING SHALL HAVE AN OCCUPANCY LOAD OF 100 S.F. PER OCCUPANT GROSS. THE REMODELED P.A.C.U. IS 1900 S.F/ GROSS AREA WHICH WOULD ALLOW 19 OCCUPANTS. THE PROPOSED P.A.C.U. WILL HAVE 11 PATIENTS AND 4 OR 5 STAFF.

WALL LEGEND:

- EXISTING WALL
- NEW WALL CONSTRUCTION
- (E) 1 HR. RATED FIRE PARTITION W/ 20 MIN. DOORS. AS PER UL DESIGN U465 OR TABLE 721 13-1.3 OF 2013 CBC. (IN AREAS SURROUNDING A SUITE, 45 MIN. DOOR ASSEMBLIES SHALL BE REQ'D.)
- (N) 1 HR. RATED FIRE PARTITION W/ 20 MIN. DOORS. AS PER UL DESIGN U465 OR TABLE 721 13-1.3 OF 2013 CBC. (IN AREAS SURROUNDING A SUITE, 45 MIN. DOOR ASSEMBLIES SHALL BE REQ'D.)

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PC COMMENTS 01-20-15	2

OSHPD#: S140671-41

PROPOSED FLOOR PLAN

2nd FLOOR POST-OP RECOVERY EXPANSION
SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

PROJECT NUMBER 12941

Date: 01-15-14
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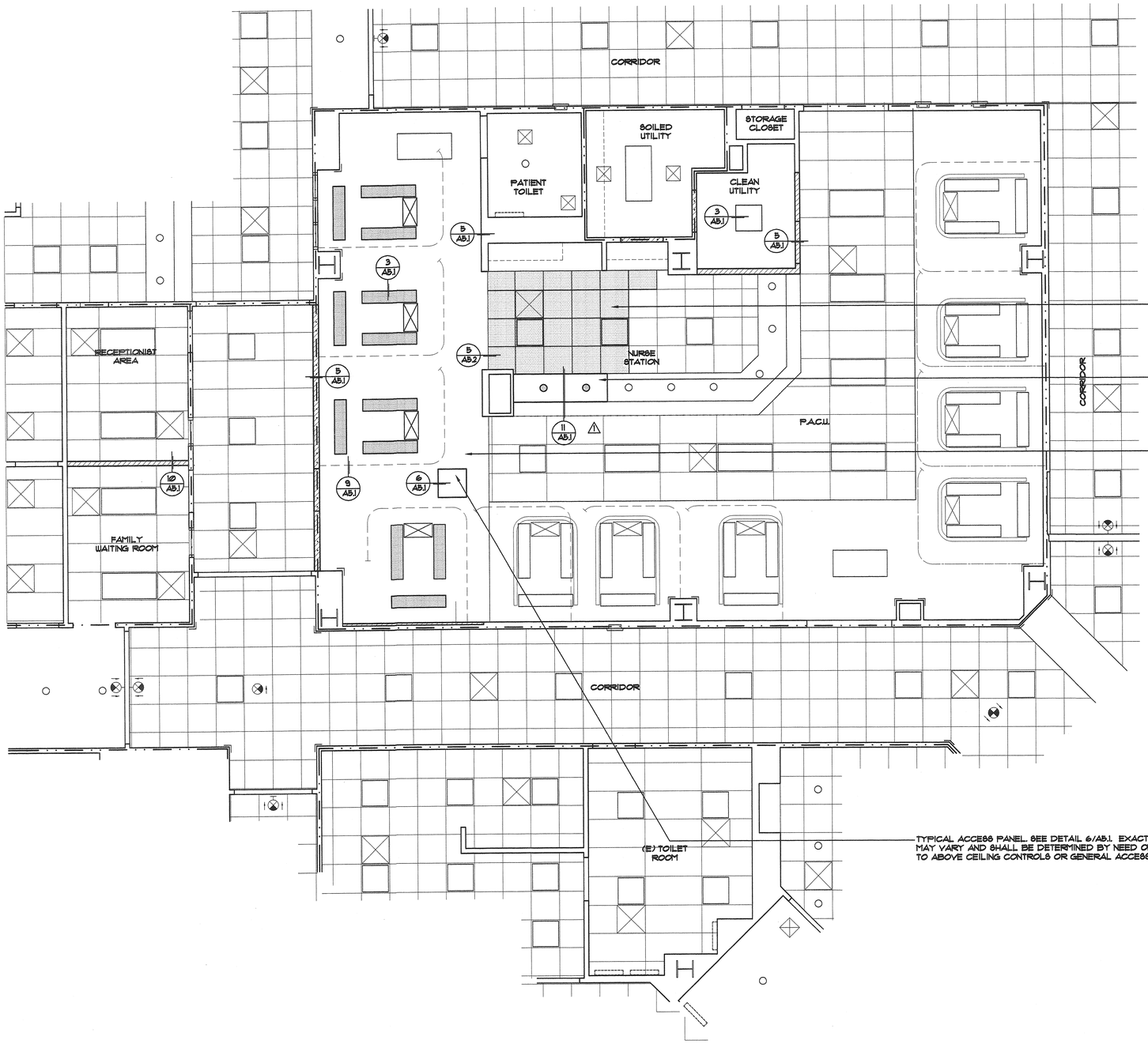

SHADED AREA REFLECTS EXTENT OF NEW ACOUSTICAL TILE CEILING SYSTEM BEING INSTALLED TO MATCH ADJACENT ASSEMBLY.

SEE MECHANICAL DRAWINGS FOR REQUIRED REGISTERS AND DUCTING AS NEEDED.

CONTRACTOR SHALL INSTALL NEW SOFFIT ASSEMBLY TO MATCH ADJACENT UNIT AND ADD THE LIGHTING AS NOTED. SEE ELECTRICAL DRAWINGS FOR LIGHTING INSTALLATION AND REQUIREMENTS.

CONTRACTOR SHALL INSTALL NEW GYPBOARD SUSPENDED CEILING SYSTEM IN AREA WHERE EXISTING ACOUSTICAL TILE CEILING HAS BEEN REMOVED. NEW SYSTEM AND FINISHES SHALL MATCH EXISTING GYPBOARD AREAS OF CEILING IN CURRENT P.A.C.U.

SEE ADDITIONAL INSTALLATION INSTRUCTIONS ON SHEET A5.1 FOR INSTALLATION OF RIGID SUSPENDED GYPBOARD SYSTEM.

SEE ELECTRICAL DRAWINGS FOR NEW LIGHTING TO BE INSTALLED.

TYPICAL ACCESS PANEL. SEE DETAIL 6/A5.1. EXACT LOCATION MAY VARY AND SHALL BE DETERMINED BY NEED OF ACCESS TO ABOVE CEILING CONTROLS OR GENERAL ACCESS.

GENERAL NOTES:

1. SEE SEPARATE DRAWING FOR PROJECT SPECIFICATIONS.

2. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND INFORM ARCHITECT IN WRITING OF ALL DISCREPANCIES AND VARIATIONS IN THE DRAWINGS PRIOR TO START OF FABRICATION OR INSTALLATION OF THE WORK.

3. IT IS THE OWNER'S REQUIREMENT THAT THE WORK BE CONSTRUCTED AS INDICATED IN THE CONSTRUCTION DOCUMENTS AND AS APPROVED BY GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE PROJECT INCLUDING OSHPD. NO VARIATION SHALL BE PERMITTED EXCEPT BY CHANGE ORDER PROCESS.

4. THE OWNER SHALL BE RESPONSIBLE TO TEST FOR AND REMOVE ANY ASBESTOS OR HAZARDOUS MATERIALS IN THE PROJECT AREA.

5. THERE IS NO PRIORITY OR EXCLUSIVENESS WITHIN THE CONTRACT DOCUMENTS. WHAT IS REQUIRED OF ONE SHALL BE REQUIRED BY ALL.

6. ALL WALLS ASSOCIATED WITH THIS PROJECT SHALL BE PAINTED OR REPAINTED.

7. SEE STRUCTURAL AND ELECTRICAL DRAWINGS FOR INFORMATION NOT INDICATED ON ARCHITECTURAL DRAWINGS.

WALL LEGEND:

EXISTING WALL

NEW WALL CONSTRUCTION

(E) 1 HR. RATED FIRE PARTITION W/ 20 MIN. DOORS. AS PER UL DESIGN U465 OR TABLE 721.1.3.1 OF 2013 CBC. (IN AREAS SURROUNDING A SUITE, 45 MIN. DOOR ASSEMBLIES SHALL BE REQ'D.)

2 (N) 1 HR. RATED FIRE PARTITION W/ 20 MIN. DOORS. AS PER UL DESIGN U465 OR TABLE 721.1.3.1 OF 2013 CBC. (IN AREAS SURROUNDING A SUITE, 45 MIN. DOOR ASSEMBLIES SHALL BE REQ'D.)

REVIEWED FOR ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
FEB 25 2015
Office of Statewide Health Planning & Development
FACILITIES DEVELOPMENT DIVISION

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OSHPD# 91406711-41

PROPOSED REFLECTED CEILING PLAN

2nd FLOOR POST-OP RECOVERY EXPANSION

SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

PROJECT NUMBER 12941

Date: 01-15-14
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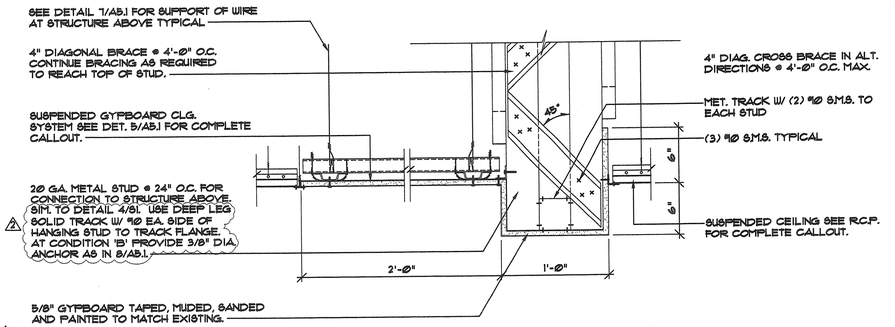
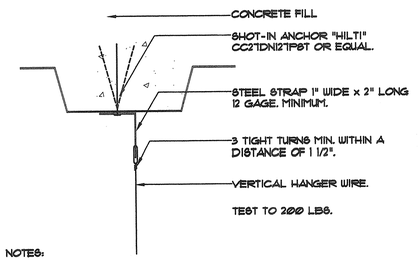
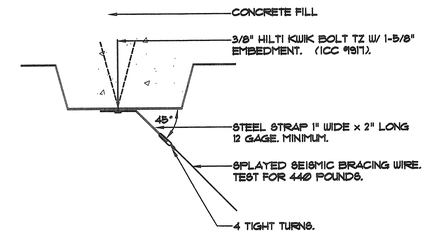


11 EXTENSION OF SOFFIT OVER NURSING STATION 1-1/2"=1'-0"



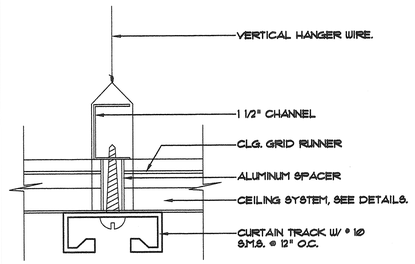
NOTES:
1. USE WIRE SYSTEM TO OBTAIN THE REQUIRED SEISMIC BRACING NEEDED IN ALL AREAS WHERE NEW SUSPENDED CEILING SYSTEM IS INSTALLED.
2. AT LOCATIONS OF REQUIRED ATTACHMENT OF CEILING CLIP TO STEEL FRAMING MEMBER, CONT. SHALL USE B-LINE OR EQ. BEAM CLIPS AS NEEDED.

7 HANGER WIRE @ STRUCT. NO SCALE

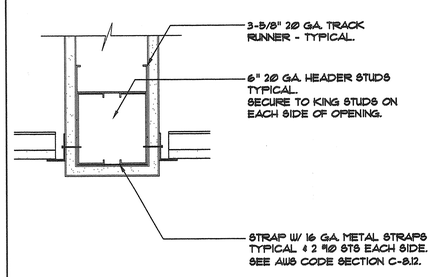


NOTES:
1. USE WIRE SYSTEM TO OBTAIN THE REQUIRED SEISMIC BRACING NEEDED IN ALL AREAS WHERE NEW SUSPENDED CEILING SYSTEM IS INSTALLED.
2. AT LOCATIONS OF REQUIRED ATTACHMENT OF CEILING CLIP TO STEEL FRAMING MEMBER, CONT. SHALL USE B-LINE OR EQ. BEAM CLIPS AS NEEDED.

8 SEISMIC BRACING WIRE @ STRUCT. NO SCALE

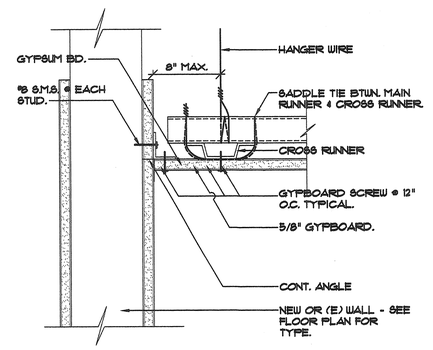


9 CURTAIN TRACK NO SCALE

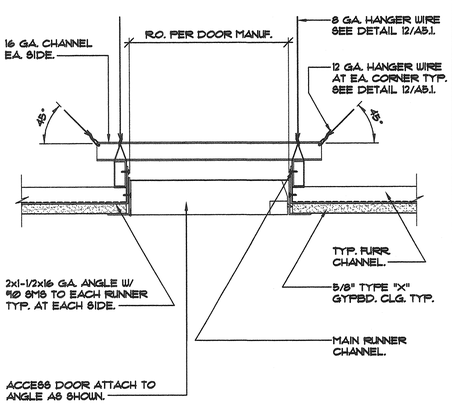


10 CEILING TRANSITION 3"=1'-0"

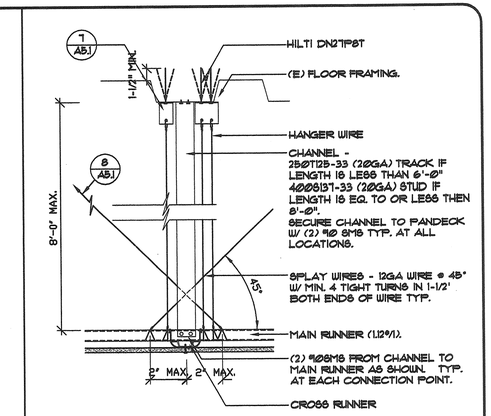
4 NOT USED



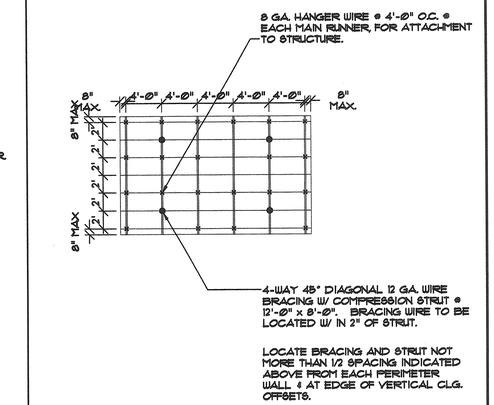
5 SUSPENDED GYPBOARD CEILING CONNECTION 3"=1'-0"



6 NON RATED RIGID SUSPENDED CEILING ACCESS PANEL SECTION 3"=1'-0"

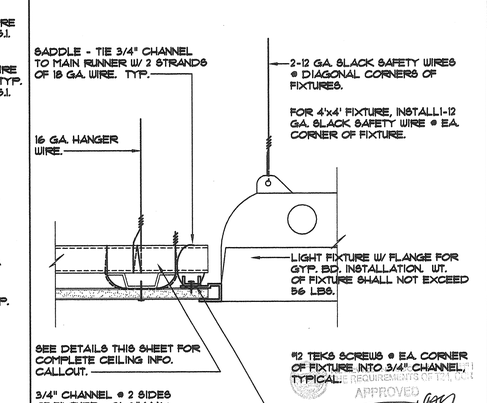


1 SUSPENDED GYPBOARD CEILING CHANNEL TYPE COMP. STRUT 3"=1'-0"



NOTES:
1. CROSS FURRING: 7/8", 26 GA. GALVANIZED HAT SECTION.
2. MAIN RUNNER: 1-1/2" H.R. CHANNEL 1.12 LBS./FT.

2 SUSPENDED GYPBOARD CEILING BRACING LAYOUT NO SCALE



3 RECESSED LIGHT FIXTURE IN GYPBOARD CEILING 3"=1'-0"

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ROBERT C. GOOYER, AIA, FHFI
REGISTERED ARCHITECT #C - 011,242
Stamp: REGISTERED PROFESSIONAL ARCHITECT ROBERT CORNELIUS GOOYER C-011242 EXP. 6/30/15 STATE OF CALIFORNIA

Revisions:
- PC COMMENTS 10-21-14 ⚠1
- PC COMMENTS 01-20-15 ⚠2

OSHPD# 514067141

RIGID SUSPENDED CEILING DETAILS

2nd FLOOR POST-OP RECOVERY EXPANSION

SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

PROJECT NUMBER 12941

Date: 01-15-14
Scale: 1/8"=1'-0"
Sheet No. A5.1
of:

STRUCTURAL CEILING SYSTEM NOTES

METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILINGS

GENERAL NOTES

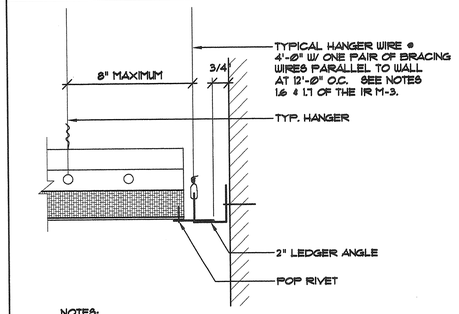
(1) 12 ga. (min.) hanger wires may be used for up to and including 4'-0" x 4'-0" grid spacing along main runners.
(2) Provide 12 ga. hanger wires at the ends of all main and cross runners within 8" from the support or within 1/4 of the length of the end tee, whichever is least, for the perimeter of the ceiling area. End connections for runners which are designed and detailed to resist the applied horizontal forces may be used in lieu of the 12 ga. hanger wires subject to OSHPD review and approval.
(3) Provide trapeze or other supplementary support members at obstructions to main hanger spacing. Provide additional hangers, struts or braces as required at all ceiling breaks, soffits or dis-continuous areas. Hanger wires that are more than 1 in 6 out of plumb are to have counter-sloping wires.
(4) Ceiling grid members may be attached to not more than 2 adjacent walls. Ceiling grid members should be at least 3/4 inch free of other walls. If walls run diagonally to ceiling grid system runners, one end of main and cross runners should be free and a minimum of 3/4" (2) inch clear of wall.
(5) At the perimeter of the ceiling area where main or cross runners are not connected to the adjacent wall, provide interconnection between the runners at the free end to prevent lateral spreading. A metal strut or a 16 ga. wire with a positive mechanical connection to the runner may be used. Where the perpendicular distance from the wall to the first parallel runner is 12" or less, this interlock is not required.
(6) Provide sets of four 12 ga. splayed bracing wires oriented 90 degrees from each other at the following spacing:

(A) Place sets of bracing wires not more than 8 feet by 12 feet on center.
(B) Provide bracing wires at locations not more than 1/2 the spacings given in (A) above for each perimeter wall and at the edge of vertical ceiling offsets.
The slope of these wires should not exceed 45 degrees from the plane of the ceiling and should be taut without causing the ceiling to lift. Splices in bracing wires are not to be permitted without special OSHPD approval.

(7) Fasten hanger wires with not less than 3 tight turns. Fasten bracing wires with 4 tight turns. Make all tight turns within a distance of 1-1/2 inches. Hanger or bracing wire anchors to the structure should be installed in such a manner that the direction of the wire aligns as closely as possible with the direction of the forces acting on the wire.
Note: Wire turns made by machine where both strands have been de-formed or bent in wrapping can wave the 1-1/2" requirement, but the number of turns should be maintained and be as tight as possible.
(8) Separate all ceiling hanging and bracing wires at least 6 inches from all unbraced ducts, pipes, conduit, etc. It is acceptable to attach light weight items such as single electrical conduit not exceeding 3/4" nominal diameter, to hanger wires using connectors acceptable to OSHPD.
(9) When drilled-in concrete anchors or shot-in anchors are used in reinforced concrete for hanger wires, 1 out of 10 must be field tested for 200 pounds of tension. When drilled-in concrete anchors are used for bracing wires, 1 out of 2 must be field tested for 440 pounds in tension. Shot-in anchors in concrete are are not permitted for bracing wires. If any shot-in or drilled-in anchor fails, see Section 1923A.3.5 of Title 24.
Note: Drilled-in or shot-in anchors require special OSHPD approval when used in prestressed concrete.
(10) Attach all light fixtures to the ceiling grid runners to resist a horizontal force equal to the weight of the fixtures.
(11) Flush or recessed light fixtures and air terminals or services weighing less than 56 pounds may be supported directly on the runners of a heavy duty grid system but, in addition, they must have a minimum of two 12 ga. slack safety wires attached to the fixture at diagonal corners and anchored to the structure above. All 4'-0"x4'-0" light fixtures must have slack safety wires at each corner.
All flush or recessed light fixtures and air terminals or services weighing 56 pounds or more must be independently supported by not less than 4 taut 12 ga. wires attached to the fixture and to the structure above regardless of the type of ceiling grid system used.
The 4 taut 12 ga. wires including their attachment to the structure above must be capable of supporting 4 times the weight of the unit.
(12) All fixtures and air terminals or services supported on intermediate duty grid systems must be independently supported by not less than 4 taut 12 ga. wires each attached to the fixture or terminal and to the structure above.
(13) Support surface mounted light fixtures by at least two positive devices which surround the ceiling runner and which are each supported from the structure above by a 12 ga. wire. Spring clips or clamps that connect only to the runner are not acceptable.
Provide additional supports when light fixtures are 8 feet or longer.
(14) Support pendant mounted light fixtures directly from the structure above with hanger wires or cables passing through each pendant hanger and capable of supporting 4 times the weight of the fixture.
(15) Classification of ceiling grid.
Classification of ceiling grid is heavy duty.
Manufacturer's catalog number - main runner (1200).
Manufacturer's catalog number - cross runner (1200).
(16) Reuse of existing hangers is not allowed unless contractor pull tests all (E) hangers and splay bracing w/satisfactory results per Note 9.

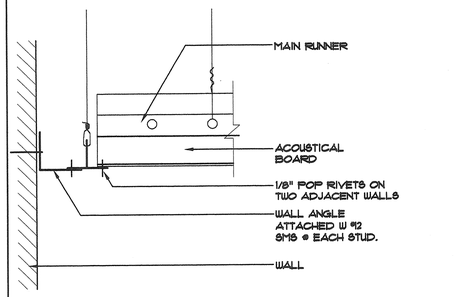
ADDITIONAL REQUIREMENTS FOR HOSPITALS

See Section 4701(e), Section 47-1801(b), Title 24 CCR. With the use of compression struts as required by CBC Standard 47-18 the requirement of 300 sq.ft. area subdivision of ceiling area need not be provided for.

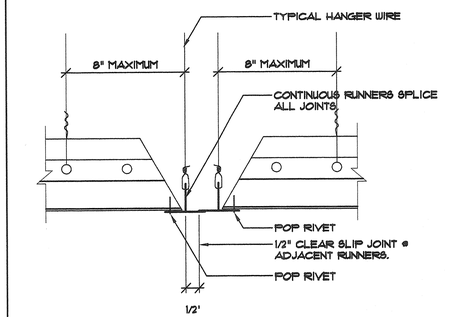


NOTES:
1. PERIMETER TERMINAL COMPONENT ENDS MUST BE SUPPORTED BY A 12 GA. WIRE ON ALL WALLS.

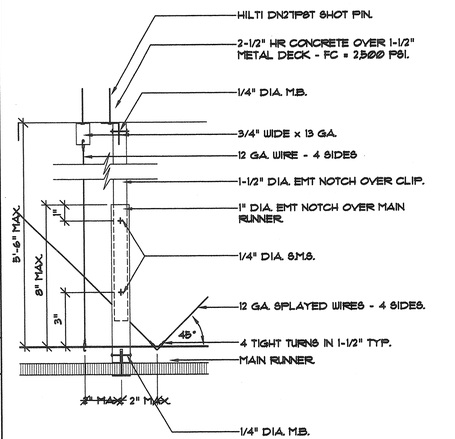
7 SLIP JOINT AT WALL — NO SCALE



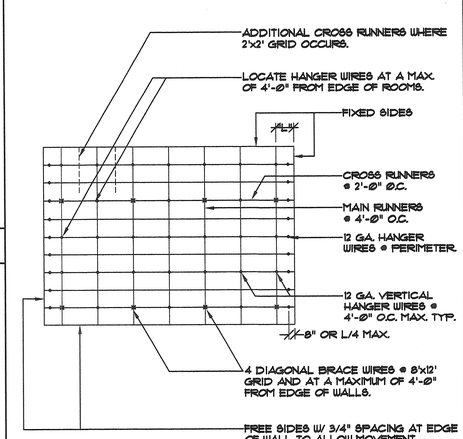
8 CONNECTED CEILING @ WALL — NO SCALE



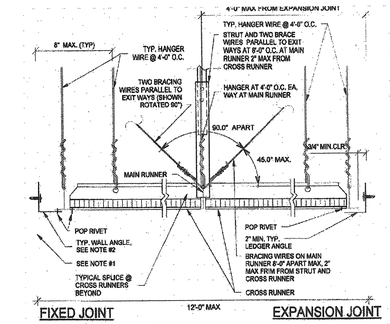
9 SJ @ EXITWAY INTERSECTION — NO SCALE



4 EMT COMPRESSION POST — NO SCALE



5 SP. CLG. BRACING LAYOUT — NO SCALE

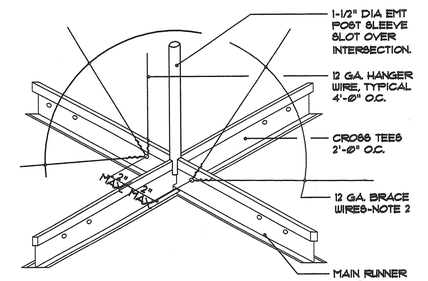


ACCEPTABLE EXITWAY DETAILS

NOTES:
1. PARIMETER WALLS SHALL BE DESIGNED TO CARRY TRIBUTARY LATERAL FORCES PARALLEL TO THE WALL AND THE ENTIRE LATERAL FORCES PERPENDICULAR TO THE WALL. RDP TO VERIFY. SEISMIC BRACING WIRES AND COMPRESSION STRUTS IN ACCORDANCE WITH PAGES CL2.2X SHALL BE PREMITTED IN LIEU OF DESIGNING PERIMETER WALLS FOR SEISMIC FORCES AND BRACING SYSTEM SHOWN ON PAGE CL2.3 AND THIS PAGE.

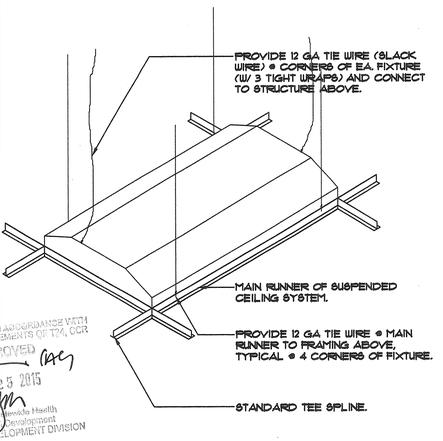
2. 2" STANDARD LEDGER ANGLE AT PERIMETER, RDP TO SPECIFY THICKNESS, CONNECTOR TYPE & SIZE CONNECTION SHALL BE TO STRUCTURE OR THROUGH FINISH TO STRUCTURE WHERE FINISH IS APPLIED AND NOT TO FINISH)

1 SEISMIC DET. FOR SP. CLG. — NO SCALE



NOTES:
1. INSTALL VERTICAL STRUTS AND BRACING WIRES PER DETAIL B.
2. BRACING WIRES TO BE ATTACHED AT A MAXIMUM OF 45° TO THE PLANE OF THE CEILING AT THE BRACE LOCATION. BRACE WIRES TO BE TAUT AND TIED BOTH ENDS WITH A MINIMUM FOUR TIGHT WRAPS IN 1-1/2" AT SPLAY WIRES.
3. BRACING WIRES SHALL NOT BE ATTACHED TO EXISTING ADJACENT WALLS. IF A WIRE IS INTERUPTED BY A WALL PENETRATE THE WALL WITH THE WIRE AND CONNECT TO CEILING AS DETAILED AND CAULK WALL PENETRATION WITH 3M CP 25 OR OTHER APPROVED FIRE CAULKING.

2 SP. CLG. BRACING — NO SCALE



REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
FEB 3 2015
Office of Statewide Health Planning & Development
FACILITIES DEVELOPMENT DIVISION

6 NOT USED

3 LIGHT FIXTURE BRACING — NO SCALE

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REGISTERED ARCHITECT
#C - 011242

Revisions:
1 FC COMMENTS 10-01-14
2 FC COMMENTS 01-20-15

OSHPD# 514067-41

SUSPENDED ACOUSTICAL TILE CEILING DETAILS

FINANCE OFFICE RELOCATION
REGIONAL MEDICAL CENTER OF SAN JOSE
225 North Jackson Avenue San Jose, California 95116 - 1691

PROJECT NUMBER 12967

Date: 01-15-14
Scale: 1/4"=1'-0"
Sheet No. A5.2 of:

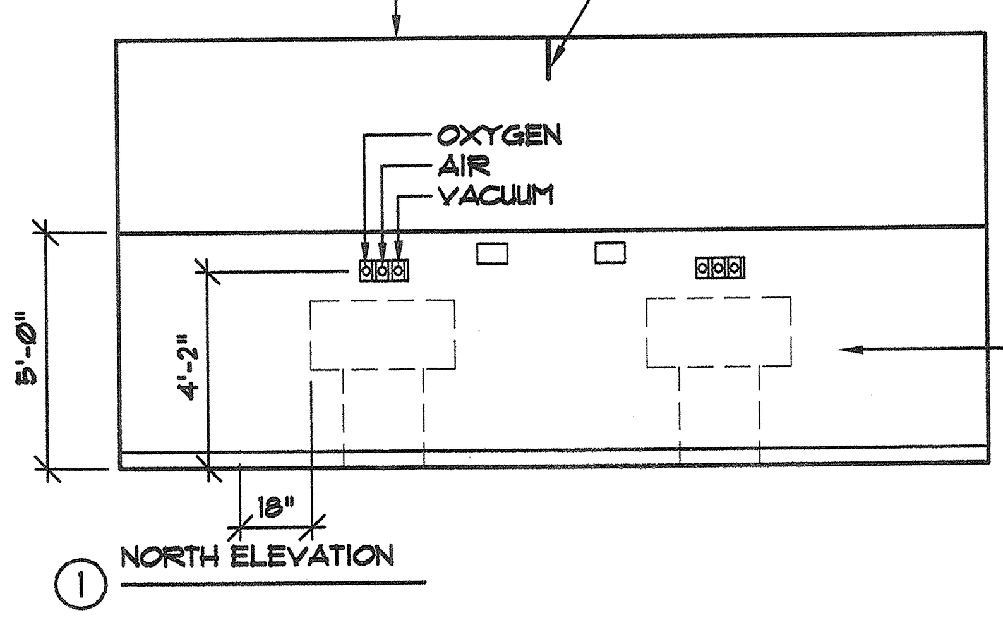
OVERBED LIGHT FIXTURE IS LOCATED IN CEILING TO MATCH EXISTING UNITS IN CURRENT SNF.

CENTER CURTAIN TRACK BETWEEN BEDS AS SHOWN.

APPROXIMATE LOCATION FOR NEW NURSECALL SYSTEM. SEE ELECT.

SEE ELECTRICAL DRAWINGS FOR CALLOUT OF LIGHTING, OUTLETS, DATA AND SWITCHING.

PLASTIC LAMINATE WAINSCOT TO MATCH EXISTING UNITS.

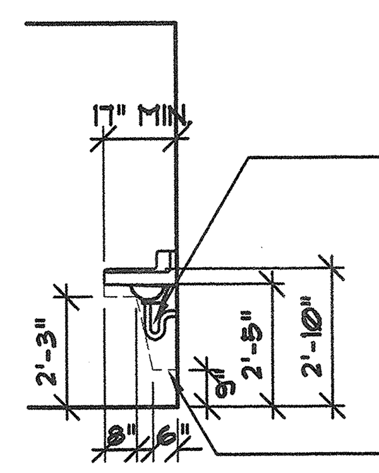


(1) NORTH ELEVATION

TYPICAL PATIENT HEADWALL

SCALE 1/4"=1'-0"

CONTRACTOR SHALL INSULATE HOT WATER AND DRAINPIPE UNDER ACCESSIBLE FIXTURE OR OTHERWISE PROTECTED AS SHOWN. COMPLY W/ CBC 11B 606.



DASHED LINES REFLECT AREA TO BE CLEAR AND ACCESSIBLE TO COMPLY W/ CBC REQUIREMENTS AS OUTLINED ON SHEET A9.2.

INSULATE HOT WATER AND DRAIN LINES UNDER LAV AS REQUIRED BY CODE.

(A) SECTION

HANDWASHING SINK

SCALE 1/4"=1'-0"

GENERAL NOTES:

1. SEE SEPARATE DRAWING FOR PROJECT SPECIFICATIONS.
2. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL CASEWORK FOR REVIEW AND APPROVAL BY OWNER AND ARCHITECT PRIOR TO FABRICATION.
3. CONTRACTOR SHALL PROVIDE AND INSTALL LOCKS ON ALL CASEWORK IN PROJECT UNLESS OTHERWISE NOTED. CONTRACTOR SHALL CONTACT FACILITY STAFF TO VERIFY KEYING.

APPROVED
FEB 25 2015
FACILITIES DEVELOPMENT DIVISION

RCG
ARCHITECTURE

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ROBERT C. GOOYER, AIA, FHFI

REGISTERED ARCHITECT
#C - 011,242

Stamp: REGISTERED PROFESSIONAL ARCHITECT, ROBERT CORNELIS GOOYER, C-011242, EXP 6/30/15, STATE OF CALIFORNIA

Revisions:	
PC COMMENTS 10-01-14	⚠

OSHPD# S140671-41

INTERIOR ELEVATIONS

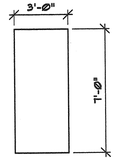
2nd FLOOR POST-OP RECOVERY EXPANSION

SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

PROJECT NUMBER
12941

Date: 01-15-14
Scale: 1/4"=1'-0"
Sheet No.
A6.0
of:

PROJECT SCHEDULES



(A) 1-3/4" SOLID CORE WOOD

DOOR CONSTUCTION:

5-PLY CONSTRUCTION W/ GLUED UP SOLID CORE.
MANUFACTURED BY WEYERHAUSER, BUELL OR EQUAL.

METAL FRAME CONSTUCTION:

FULL WELDED TYPE WITH INTEGRAL STOPS, STEEL PLASTER GUARDS FOR HARDWARE. 16 GAUGE TYPICAL. FINISH TO BE STANDARD PRIMER READY TO ACCEPT PAINT.

FINISH HARDWARE:

FURNISH FINISH HARDWARE CONFORMING TO TITLE 24, NFPA 80 AND 101 AS APPLICABLE, AND TO ALL HANDICAPPED REQUIREMENTS OF REGULATORY AGENCIES.

HARDWARE ITEM	MANUF.	GENERAL NOTES:
HINGES	LAWRENCE	1-1/2 PR. 4.5x4
LOCKSET	SCHLAGE	LEVER HARDWARE
CLOSER	LCN	SUPER SMOOTHEE

GENERAL DOOR & FINISHES NOTES:

1. INSTALLATION INSTRUCTIONS MUST BE PROVIDED AT THE JOBSITE.

2. INSTALLATION INSTRUCTIONS SHALL CONTAIN INFORMATION REGARDING THE USE OF ONLY APPROVED COMPONENTS IN THE OPENING.

3. ALL WOOD DOORS SHALL BE STAIN GRADE.

4. COLOR SHALL BE SELECTED BY OWNER.

5. ALL HARDWARE SHALL CONFORM TO T-24 CCR.

6. DOORS SHALL RECEIVE LEVER HARDWARE, 1-1/2 BUTTS / DOOR. LEVER HARDWARE SHALL BE SATURN (SAT) SERIES.

7. ALL EXIT DOORS SHALL BE OPERABLE IN THE DIRECTION OF EXIT TRAVEL W/O SPECIAL KNOWLEDGE OR EFFORT & W/O LOCKING DEVICES.

8. (E) REPRESENTS EXISTING DOORS TO REMAIN.

9. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS. FOR EXTERIOR AND INTERIOR DOORS. AS OUTLINED IN CBC SECTION 11B-404.2.9.

10. DOORS W/ REQUIRED CLOSERS SHALL COMPLY W/ CBC SECTION 11B-404.2.8.1.

11. ALL HARDWARE ON EXISTING DOORS CALLED OUT TO REMAIN, SHALL COMPLY W/ CURRENT ACCESSIBLE BUILDING REQUIREMENTS (CBC 1008.1 AND 11B-404).

12. DOORS 1,2,4,5 SHALL BE SECURED BY WAY OF THE FACILITY'S CARD READER SYSTEM AS MANUFACTURED BY JOHNSON-CONTROLS. CONT. SHALL VERIFY WITH FACILITY AS TO WHICH SYSTEM IS USED THROUGH-OUT THE FACILITY AND INSTALL COMPATABLE UNITS AT THOSE THREE LOCATIONS. (1)

13. CONTRACTOR SHALL VERIFY THAT THE EXISTING DOOR ASSEMBLIES ENTERING THE P.A.C.U. SUITE ARE RATED AT 45 MIN. PER TABLE 716.5 OF THE 2013 CBC. (2)

DOOR SCHEDULE

	DOOR NUMBER	DOOR TYPE	HARDWARE TYPE	DOOR SIZE	THICKNESS	DOOR MATERIAL	FRAME MATERIAL	RATING	COMMENTS
2,1	1	A	4	4'-0" x 7'-0"	1-3/4"	WOOD	METAL	45 MIN.	
	2	A	4	3'-0" x 7'-0"	1-3/4"	WOOD	METAL	20 MIN.	
	3	A	1	3'-0" x 7'-0"	1-3/4"	WOOD	METAL		
2	4	A	1	3'-0" x 7'-0"	1-3/4"	WOOD	METAL	45 MIN.	
	5	A	4	3'-0" x 7'-0"	1-3/4"	WOOD	METAL	20 MIN.	

HARDWARE SCHEDULE

QUANTITY	ITEM	MODEL NO.	FINISH	MANUFACTURER
SET "1"				
1-1/2 PR.	BUTTS	1279	US26D	HAGER
1	LOCK	ALB53PD	US26D	SCHLAGE
1	WALLSTOP	WBB0X	US26D	GLYNN-JOHNSON
SET "2"				
1-1/2 PR.	BUTTS	1279	US26D	HAGER
1	LATCH	AL06	US26D	SCHLAGE
1	WALLSTOP	WBB0X	US26D	GLYNN-JOHNSON
SET "3"				
1-1/2 PR.	BUTTS	1279	US26D	HAGER
1	LOCK	AL50PD	US26D	SCHLAGE
1	WALLSTOP	WBB0X	US26D	GLYNN-JOHNSON
SET "4"				
1-1/2 PR.	BUTTS	1279	US26D	HAGER
1 (1)	SEE GENERAL DOOR NOTE #12			JOHNSON-CONTROLS
1	CLOSER	4041	US26D	LCN
1	THRESHOLD	158D	-	PEMKO
1 SET	SMOKE SEALS	588D, 216DV	-	PEMKO

ROOM FINISH SCHEDULE

NO.	ROOM NAME	FLOOR: CARPET	FLOOR: RESILIENT FLOORING	FLOOR: CERAMIC TILE	FLOOR: VINYL COMPOSITION TILE	FLOOR: EXPOSED CONCRETE	BASE: TOPSET BASE	BASE: 6" COVED	BASE: 2x2 CERAMIC TILE	BASE: NO BASE	WCT: 4x4 CERAMIC TILE FULL HT.	WCT: RFP PANELS - SMOOTH	WCT: NOT USED	WALLS: NORTH	WALLS: EAST	WALLS: SOUTH	WALLS: WEST	CEILING: GYPBOARD W/ PAINT	CEILING: (N) SUSP. ACOUST. TILE CLG.	CEILING: (E) SUSP. ACOUST. TILE CLG.	CEILING: (E) TO REMAIN - REPAINT	HEIGHT	REMARKS
101	PATIENT AREA		●					●					●	P-1	P-1	P-1	P-1	●		●	●	9'-6"	
102	NURSE STATION		●					●					●	P-1	P-1	P-1	P-1		●		●	9'-6"	
103	CLEAN UTILITY		●					●					●	P-1	P-1	P-1	P-1	●				9'-6"	
104	SOILED UTILITY		●					●					●	P-2	P-2	P-2	P-2			●		8'-0"	
105	PATIENT TOILET		●					●					●	P-1	P-1	P-1	P-1			●		8'-0"	
106	RECEPTIONIST	●					●						●	P-1	P-1	P-1	P-1				●	9'-6"	
107	WAITING ROOM	●					●						●	P-1	P-1	P-1	P-1				●	9'-6"	
108	EXIT CORRIDOR		●					●					●	P-1	P-1	P-1	P-1				●	9'-6"	
109	(E) TOILET ROOM		●					●					●	P-1	P-1	P-1	P-1				●	8'-0"	

ROOM FINISH KEY

RESILIENT FLOORING
MFR: TARKETT
PATTERN: -
COLOR: AS SELECTED BY OWNER
SIZE: SHEET
TYPE: HEAT WELD SEAMS
FIRE TESTING: ASTM F-1303/NFPA CLASS 1
SMOKE DENSITY: ASTM E-662/NFPA 258-450 OR LESS

VINYL COMP. TILE
MFR: ARMSTRONG
PATTERN: STANDARD EXCELON - IMPERIAL TEXTURE
COLOR: TO MATCH EXISTING
SIZE: 12"x12"

CERAMIC TILE (FLOOR)
MFR: DALTILE
PATTERN: AS SELECTED BY OWNER
COLOR: DARK BEIGE, MATTE (TO MATCH EXISTING)
SIZE: 2"x2"

CT-1 CERAMIC TILE (WALL)
MFR: DALTILE
PATTERN: CLOSE
COLOR: BEIGE
SIZE: 4-1/4"x4-1/4"

RESILIENT BASE
MFR: BURKE
PATTERN: RUBBER COVE WALL BASE, TYPE I
COLOR: AS SELECTED BY OWNER
SIZE: 4" ROLLS
TYPE: MARMOLEUM
FIRE TESTING: ASTM F861-98, TYPE TS STYLES A & B
SMOKE DENSITY: CLASS B LESS THAN 450

P-1 PAINT
MFR: KELLY MOORE
PATTERN: AS SELECTED BY OWNER
COLOR: AS SELECTED BY OWNER
SHEEN: FLAT

P-2 PAINT
MFR: KELLY MOORE
PATTERN: AS SELECTED BY OWNER
COLOR: AS SELECTED BY OWNER
SHEEN: SEMI-GLOSS

P-3 PAINT
MFR: KELLY MOORE
PATTERN: AS SELECTED BY OWNER
COLOR: AS SELECTED BY OWNER
SHEEN: GLOSS

CORNER GUARDS
MFR: C/S ACROVYN
STYLE: SM-10/20
COLOR: MATCH EXISTING
SIZE: 0.060" THICKNESS
FIRE TESTING: SMOKE DENSITY: 450 OR LESS
FLAME SPREAD: 25 OR LESS

(1) CONTRACTOR SHALL OBTAIN CERTIFICATION FROM SUPPLIER OF ANY INTERIOR WALL MATERIAL OR FINISH THAT IT MEETS SECTIONS 803.1 & 804.1 OF THE 2013 CBC FOR FLAME SPREAD RATING, ETC.

CONTRACTOR SHALL OBTAIN APPROVAL FROM FACILITY AND OSHPD FIELD STAFF PRIOR TO INSTALLATION.

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
FEB 05 2015
Office of Statewide Health Planning & Development
FACILITIES DEVELOPMENT DIVISION

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STATE OF CALIFORNIA REGISTERED PROFESSIONAL ARCHITECT ROBERT C. GOOYER
C-011242
EXP. 6/30/15

Revisions:
1 PC COMMENTS 10-01-14
2 PC COMMENTS 01-20-15

OSHPD# 514067-11-41

SCHEDULES

2nd FLOOR POST-OP RECOVERY EXPANSION
SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

PROJECT NUMBER 12941

Date: 01-15-14
Scale: 1/8"=1'-0"
Sheet No. A8.0 of:

PROJECT SPECIFICATIONS

100 GENERAL CONDITIONS

A. These specifications shall take precedence over drawings, large drawings shall take precedence over small scale drawings, all dimensions shall have precedence over scale. In the event of a discrepancy in these documents discovered by the Contractor or where the intent of the drawings is not clear, the Cont. shall request clarification from the Architect or Owner before proceeding with the work in question.

B. The Contractor is responsible for visiting and examining the site and shall familiarize himself with the (E) conditions. The information contained in these drawings is as exact as could be reasonably determined by the Design Professionals.

C. The General Contractor and all Sub-Contractors shall be responsible for periodic cleaning of their work on the jobsite and shall thoroughly clean and dispose of all their associated debris prior to leaving the jobsite.

D. All products and materials shall be delivered, stored, handled and installed in accordance with the manufacturer's recommendations, to the fullest extent possible, provide products of the same kind from a single source. The Cont. shall verify the installation of all products when proper installation is not evident. All products and materials shall be installed by qualified Sub-Contractor. Prior to purchasing any product, the Contractor shall verify acceptability of said product with local authorities.

E. Construction Contractor and his Sub-Contractors agree that in accordance with generally accepted constructed practices, Construction Contractor and his Sub-Contractors will be required to assume sole and complete responsibility for jobsite conditions during the course of construction of the project, including safety of all persons and property; that this agreement shall be made to apply continuously and not be limited to normal working hours, and Const. Contractor and his Sub-Contractors further agrees to defend, indemnify and hold harmless design Professionals from any and all liability, real or alleged, in connection with the performance of work on the project, accepting liability arising from the sole negligence of Design Professional.

F. Contractor shall maintain an operable jobsite phone or make accommodations for same, sanity toilet and protection of the owner's property during the course of construction 24 hours a day.

G. Requests for changes in products, materials, equipment or method of construction must be submitted in writing to the Owner and Architect ident. the substitution and its effect on the project schedule and project cost. The substitution shall have been approved prior to the Contractor taking action to incorporate the substitution.

H. Cutting and patching shall be done using identical materials to (E) conditions U.O.N. Protect (E) construction from damage during construction.

J. Submittals shall include Shop Drawings, Product Data and Samples. Ea. submittal shall be properly labeled for identification. Submit a minimum of 3 copies of each submittal. Items which require a submittal are items such as: Casework, Finishes, Plumbing Fixtures and the like. The Architect assumes no responsibility for the accuracy of dimensions or quantities on reviewed and approved submittals.

K. The Contractor shall verify that no conflicts exist in the location of any and all work including but not limited to mechanical, electrical, lighting and casework and that all clearances for the installation and maintenance are approved. Any conflict shall be brought to the attention of the Architect prior to proceeding with the work.

DIVISION 2 - SITE WORK

SECTION 02010 - SELECTIVE DEMOLITION

A. The General intent of selective demolition is indicated on the drawings and in these specifications. Contractor shall verify the total extent of the demolition to assure the complete execution of the project. Conduct demolition in a manor that will minimize the disruption to the Owner. Provide temporary barricades, bracing or support to protect the Owner's property and the general public from injury or damage during the demolition. Protect existing work that is to remain in place, provide weatherproof closures for exterior openings resulting from this work. In the event of a conflict with the intended function or design and (E) elements, contact the Architect and Owner.

B. It is essential that there be minimal interruption of the normal operation of the existing medical facility.

C. Take care to ensure that there will be no damage to structural elements of portions which are not required to be removed.

D. Erect and maintain temporary barriers to confine dust and debris. Provide dust curtains of fireproof polyethylene where applicable to maintain points of ingress and egress in a clean condition.

E. Perform demolition in accordance with applicable regulatory requirements. Remove items designated for demolition within the limits of work indicated, and as required to perform the work.

F. Protect existing facilities from damage. Items damaged as a result of demolition operations shall be repaired or replaced at no cost to the owner.

G. Make new openings neat, as close as possible to profiles indicated. Do not cut or alter structural members unless specifically indicated or approved, and do not damage reinforcing or structural steel to remain.

H. Clean surfaces on which new materials will be applied, removing adhesive materials as necessary to furnish acceptable substrates for new materials.

END OF SECTION

DIVISION 3 - CONCRETE (NOT USED)

DIVISION 4 - MASONRY (NOT USED)

DIVISION 6 - WOOD AND PLASTICS

SECTION 06100 - ROUGH CARPENTRY

A. Interior Plywood Backing Panels: Fire-retardant treated, APA C-D PLUGGED INT with exterior glue, combinations to result in 7/8" thickness.

B. Fire-Retardent Treatment: Koppers Company "Dricon" or equal. Treated wood shall have an FR-S rating and Class A flame and smoke developed values when tested in accordance with ASTM E84. After treatment, Kiln-dry plywood to a maximum moisture content of 15%.

END OF SECTION

SECTION 06410 - CUSTOM CABINETWORK

A. Submit shop drawings with the Woodwork Institute of California (WIC) Certified Compliance Grade Stamp.

B. Before delivery to project site, issue a WIC Compliance Certificate indicating that all work to be furnished shall comply with WIC requirements for specified grade. After fabrication, stamp each piece of cabinetwork in an inconspicuous place with WIC Compliance Grade Stamp.

MATERIALS

A. Cabinets shall comply with WIC Custom Grade, unless otherwise indicated.

B. Countertops shall comply with WIC Premium Grade, unless otherwise indicated.

C. Laminated Plastic Sheets: Manufacturer and color as selected by Architect.
1. Expose vertical and Horiz. surfaces: NEMA Type GP 50, .050" thick, .042" thick for post forming grade: matte finish.
2. Semi-exposed surfaces: Polyester high-density overlay, white color, .020" thick.
3. Exposed edges: Self-edged with plastic laminate.
4. Balancing sheet: Fabricator's standard.

D. Particle Board: 3/4" thick, 45 lb/cf density.

E. Subframe Lumber: No. 1 grade Douglas Fir or plain sawn Yellow Poplar.

F. Plywood backing for Plastic Laminate: Premium Grade A or Good Grade 1 hardwood veneer plywood, smooth, well sanded.

G. Hardware: Furnish and install as required to provide a complete casework installation.
1. Hinges: 120 degree opening, concealed hinge, passing 100,000 cycle test. Provide 3 hinges on door over 48" high.
2. Door and Drawer pulls: Hevi 548/14 or approved equal nylon pulls, color as selected by Architect. Mount horizontally.
3. Door locks: National Lock C8123, Corbin Ø7137 or approved equal. Key as directed by owner.
4. Drawer locks: National Lock C8138, Corbin Ø7138 or approved equal. Key as directed by owner.
5. Drawer Guides:
   a. Box drawers: 3/4 partial extension, minimum 75-lb capacity: Grant 338 or approved equal.
   b. File drawers: Full extension, minimum 100-lb capacity: Grant 329 or approved equal.
6. Adjustable shelf standard: K4V 255 steel zinc plated or app. eq.
7. Adjustable shelf clips: K4V 256 or approved equal.
8. Magnetic catches: Amerock V9765, Epco 591/592 or app. equal.

H. Countertops: Premium grade laminated plastic in accordance with (WIC) "Manual of Millwork" Section 16, for specific grade.
1. Countertop edges: Self-edged with plastic laminate.
2. Back splash: Square butt joints or integral cove as indicated, height as indicated.

END OF SECTION

DIVISION 5 - MISCELLANEOUS METALS (NOT USED)

DIVISION 6 - WOOD AND PLASTICS (NOT USED)

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

SECTION 07100 - SEALANTS

A. All doors and windows to be sealed in accordance with the manufacturer's instructions. Sealants shall be Silicone or Butyl base caulking used at all exterior joints. Excess shall be removed from surfaces prior to taking initial set.

END OF SECTION

DIVISION 8 - DOORS & WINDOWS

SECTION 08110 - HOLLOW METAL FRAMES

A. Approved Manufacturer: Overly Manuf. Co., Steelcraft Manufacturing Co., or approved equal.

FABRICATION:

A. Types: as detailed and called out in drawings.

B. Hollow Metal Frames: Full welded type with integral stops, 16 gauge or

C. Frame Anchors: Manufacturer's standard types for each type wall construction, as indicated in the drawings.

D. Hardware Preparation: Obtain templates, and prepare doors and frames to receive all hardware.

E. Finish: Manufacturer's standard primer.

END OF SECTION

SECTION 08210 - SOLID CORE WOOD DOORS

A. Approved Manufacturers: Weyerhauser, Buell, Eggers or approved equal.

B. Construction: 5-ply construction with glued up solid core or particleboard core, with Grade 1, "Premium" grade rift cut white oak, balanced and free of heart. Edges: matching hardwood, 1-1/8" thick top and bottom and 1-3/8" stiles. Provide openings as required.

C. Quality Assurance: Provide Warnock-Hersey or UL label if req'd by code. Conform to National Wood Window and Door Manufacturers (NWWDA) I.S. 1 Industry Standards for face veneers, adhesives and bond.

END OF SECTION

SECTION 08710 - FINISH HARDWARE

A. Quality Assurance: Provide finish hardware conforming to Title 24, NFPA 80 & 101 as applicable and to all handicapped requirements of reg. agencies.

B. See drawings for hardware manufacturers.

END OF SECTION

DIVISION 9 - FINISHES

SECTION 09120 - CEILING SUSPENSION SYSTEMS

A. Approved manufacturer: Chicago Metallic or approved equal.
B. Model: Snap Grid #200 15/16" heavy duty suspended ceiling system.
C. Materials / Finish: Metal w/ factory applied paint. Color: White.

END OF SECTION

SECTION 09250 - GYPSUM WALLBOARD

A. Gypsum wallboard shall comply with ASTM C840 unless otherwise indicated.

MATERIALS

A. Regular Type Gypsum Wallboard: ASTM C36, 5/8" with tapered and wrapped long edges.

B. Fire-Rated Gypsum Wallboard: ASTM C36, 5/8" as outlined in the drawings and conforming to the UL assembly referenced.

C. Screws: ASTM C954 or C1002, Type S or S-12 as required. Lengths sufficient for point penetration through supporting metal not less than 1/4" or more than 1/2".

D. Joint Treatment Materials: ASTM C475. Provide paper reinforcing tape and ready mixed joint compound, one grade for bedding tapes and filling depressions, one for topping and sanding.

END OF SECTION

SECTION 09500 - SUSPENDED CEILING SYSTEMS

A. Approved manufacturer: Armstrong or approved equal.
B. Model: #930 2x4 Drop-in Minaboard/Cortega panels.
C. Materials / Finish: Wet formed mineral fiber - Factory applied vinyl latex paint - Color to be white.

Panels shall have a maximum flame spread rating of 25.

END OF SECTION

SECTION 09900 - PAINTING

901 PAINT: All interior Gypboard, WP Gypboard, Cement Plaster and Wood Trim shall be sealed and painted per manufacturer's recommendations. All surfaces shall have a min. of one prime coat and a minimum of two top coats of paint. All areas exposed to moisture shall have a min. of one prime coat and two coats of Latex paint.

MATERIALS

A. Approved manufacturers: Kelly Moore, Sinclair, Dunn Edwards, Benjamin Moore or approved equal.

B. Colors: To be selected by Architect. More than one color may be used.

902 SURFACE CONDITIONS: Contractor shall examine all areas to be painted and correct any defects that appear.

903 PAINTING SCHEDULE

A. Exterior metal, ferrous:
1. First coat: 1110 Kel-Guard Zinc Chromate / Red Oxide Primer
1. Second coat: 1100 Kel-Guard Rust Inhibitive Enamel
1. Third coat: 1100 Kel-Guard Rust Inhibitive Enamel

B. Exterior cement plaster and concrete:
1. First coat: 125 Chem-Guard Masonry Primer/Sealer
1. Second coat: 1240 Acry-Shield Acrylic Flat Finish

C. Interior flat wall paint:
1. First coat: 910 Acry-Plex Hi-Hide Vinyl Sealer
1. Second coat: 550 Super Latex Flat Wall Paint
1. Third coat: 550 Super Latex Flat Wall Paint.

C. Interior flat wall paint:

1. On Gypsum Wallboard:
a. First coat: 910 Acry-Plex Hi-Hide Vinyl Sealer
b. Second coat: 630 Kel-Cote Alkyd Semi-Gloss Enamel
c. Third coat: 1630 Kel-Cote Alkyd Semi-Gloss Enamel

2. On ferrous metal:
a. First coat: 1110 Kel-Guard Zinc Chromate / Red Oxide Primer
b. Second coat: 985 Flo-Cote Enamel Undercoat
c. Third coat: 1630 Kel-Cote Alkyd Semi-Gloss Enamel

END OF SECTION

DIVISIONS - 10, 11, 12, 13 & 14 (NOT USED)

DIVISION 15000 - MECHANICAL AND PLUMBING
SEE MECHANICAL AND PLUMBING DRAWINGS.

DIVISION 16000 - ELECTRICAL
SEE ELECTRICAL DRAWINGS.

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
FEB 25 2015
Office of the State Health Planning and Development
FACILITIES DEVELOPMENT DIVISION

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REGISTERED ARCHITECT
#C - 011242

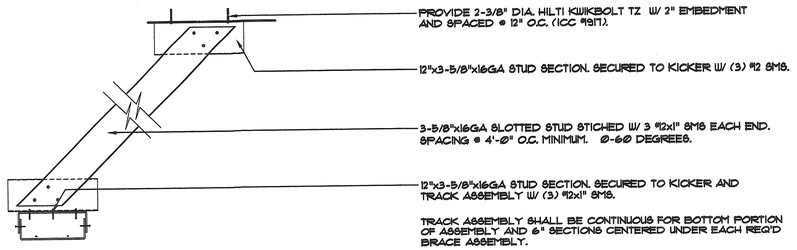
Stamp: REGISTERED PROFESSIONAL ARCHITECT ROBERT C. GOOYER C-011242 Exp. 6/30/15 STATE OF CALIFORNIA

Revisions:
PC COMMENTS 10-01-14	⚠
OSHPD# 51406711-41	⚠

PROJECT SPECIFICATIONS
2nd FLOOR POST-OP RECOVERY EXPANSION
SAN MATEO COUNTY MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

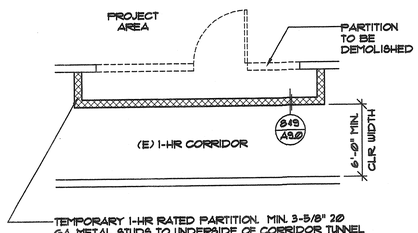
PROJECT NUMBER
12941

Date: 01-15-14
Scale: 1/8"=1'-0"
Sheet No.
A8.1
of:



9 TYPICAL LATERAL BRACE FOR WALL

1-1/2"=1'-0"



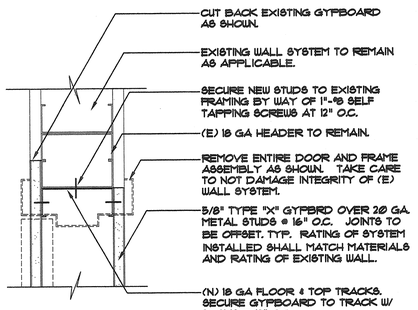
TEMP. CONSTR BARRIER & FIRE SAFETY NOTES:

1. SMOKE DETECTORS MAY BE COVERED OR REMOVED DURING ALTERATION. WHEN APPROVED BY THE OSHPD FIELD PERSONNEL AS AUTHORITY HAVING JURISDICTION.
2. REQUIRED EXITS SHALL BE MAINTAINED. WHEN TEMPORARY CONSTRUCTION BARRIERS ARE PROVIDED, EXIT CORRIDORS SERVING BEDRIDDEN PATIENTS SHALL NOT HAVE THEIR REQ'D. WIDTH REDUCED TO LESS THAN 6'-0". CFC (2013) SEC. 1028.
3. TEMPORARY EXITING SHALL BE APPROVED BY THE OSHPD FIRE MARSHAL HAVING AUTHORITY. CFC (2013) SEC. 1003.
4. FIRE-RESISTIVE ASSEMBLIES AND CONSTRUCTION SHALL BE MAINTAINED. CFC (2013) SEC. 703.
5. PLASTIC FILM WHEN USED FOR DUST PROTECTION SHALL BE FLAME RESISTANT. CFC (2013)
6. CUTTING AND WELDING OPERATIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 26 OF THE (2013) CALIFORNIA FIRE CODE.

7. IN OCCUPIED BUILDINGS, WHERE TEMPORARY CONSTRUCTION BARRIERS ARE REQUIRED TO BE INSTALLED DURING THE CONSTRUCTION OR RE-CONSTRUCTION OF FIRE-RESISTIVE ASSEMBLIES, TEMPORARY CONSTR. SHALL MEET THE SAME FIRE RATING AS WOULD THE PERMANENT PARTITION. USE OF PLASTIC OR VINYL DUST BARRIERS IN LIEU OF FIRE RATED SEPARATIONS IS PROHIBITED. TEMPORARY CONSTRUCTION BARRIERS ARE NOT REQUIRED WHERE ADEQUATE FIRE-RESISTIVE SEPARATION CAN BE DEMONSTRATED TO EXIST BETWEEN OCCUPIED AREAS AND CONSTRUCTION AREAS. SMOKE COMPARTMENTS AND REFUGE AREAS IN COMPLIANCE WITH CBC SECTION 407 SHALL BE MAINTAINED THROUGHOUT THE PERIOD OF CONSTRUCTION.
8. EXISTING MEANS OF EGRESS NEED NOT BE MAINTAINED WHERE APPR'D. TEMPORARY MEANS OF EGRESS SYSTEMS AND FACILITIES ARE PROVIDED. REQUIRED MEANS OF EGRESS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION, DEMOLITION, REMODELING OR ALTERATIONS AND ADDITIONS TO ANY BUILDING. A HORIZONTAL EXIT SHALL NOT BE DISTROYED UNLESS AND UNTIL A SUBSTITUTE MEANS OF EGRESS HAS BEEN PROVIDED AND APPROVED.
9. WHERE CONSTRUCTION BARRIERS AFFECT ANY EXIT COMPONENT, FIRE-APPROVAL SHALL BE OBTAINED FROM LOCAL FIRE JURISDICTION AND OSHPD PRIOR TO ANY DEMOLITION OR RECONSTRUCTION.

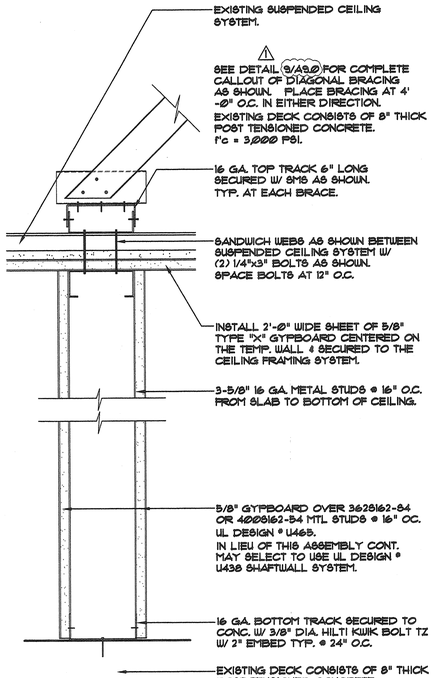
10 TEMPORARY CONSTRUCTION BARRIERS AND FIRE SAFETY

1/4"=1'-0"



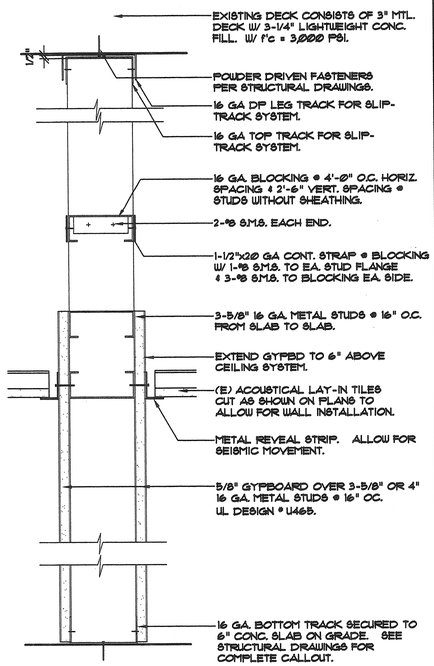
7 DOOR CLOSURE WALL

3"=1'-0"



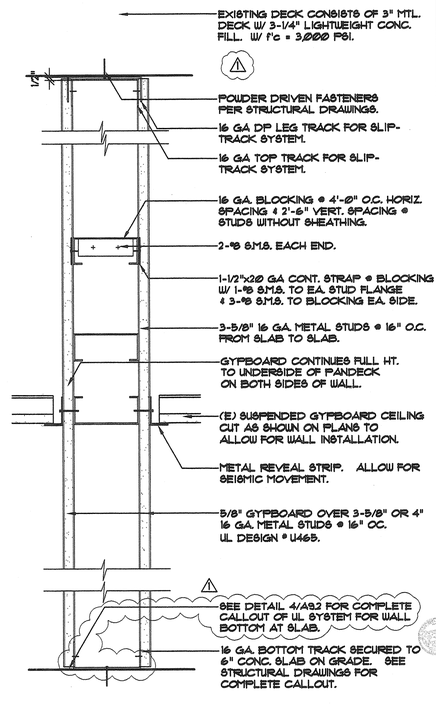
8 TEMPORARY WALL IN PROJECT AREA IF REQUIRED

3"=1'-0"



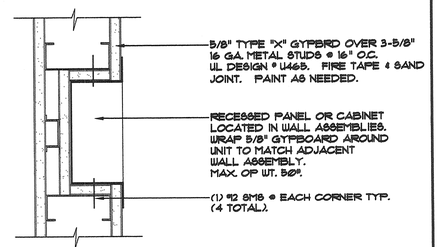
5 NON-BEARING PARTITION WALL

3"=1'-0"



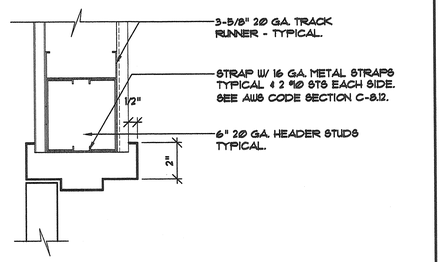
6 NON-BEARING PARTITION WALL

3"=1'-0"



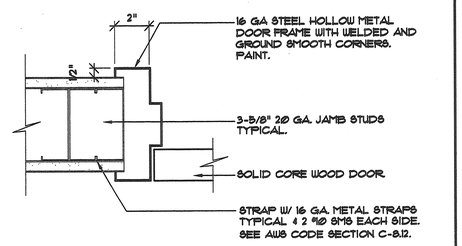
1 RECESSED CABINET ENCLOSURE

3"=1'-0"



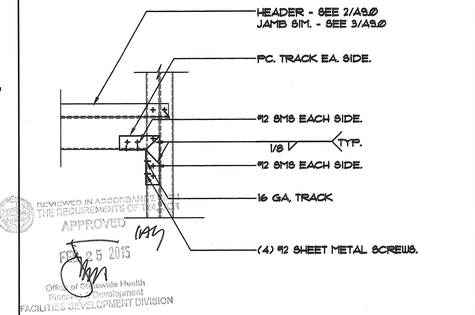
2 TYPICAL DOOR HEAD

3"=1'-0"



3 TYPICAL DOOR JAMB

3"=1'-0"



REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 24
APPROVED
FEB 25 2015
Office of Statewide Health Planning & Development
FACILITIES DEVELOPMENT DIVISION

4 DOOR HEAD FRAMING DETAIL

1-1/2"=1'-0"

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ROBERT C. GOOYER, AIA, FHFI
REGISTERED ARCHITECT
#C - 011242
Stamp: REGISTERED PROFESSIONAL ARCHITECT ROBERT C. GOOYER COMMERCIAL ORDER C-011242 EXP. 6/30/15 STATE OF CALIFORNIA

Revisions:

PC COMMENTS 10-01-14	1
OSHPD# 514067-41	
	1

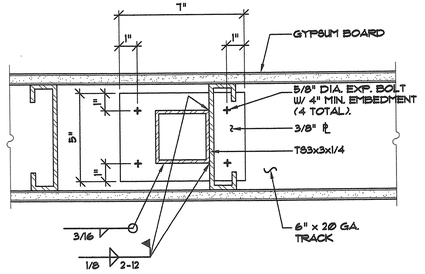
MISCELLANEOUS DETAILS

2nd FLOOR POST-OP RECOVERY EXPANSION

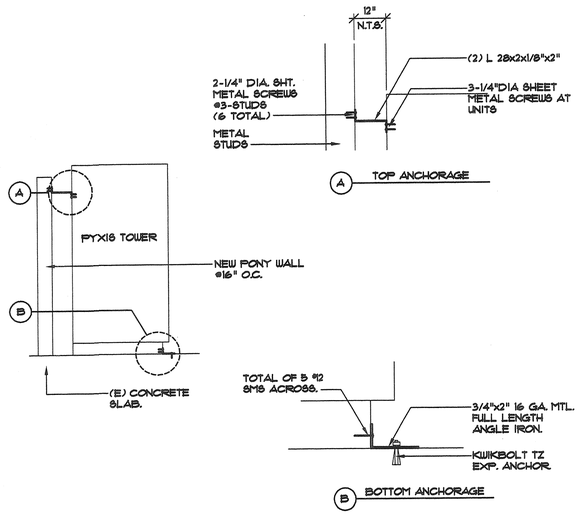
SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

PROJECT NUMBER 1294

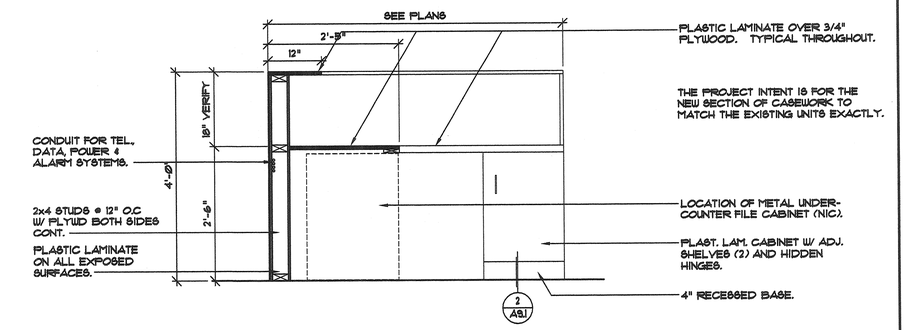
Date: 01-15-14
Scale: 1/8"=1'-0"
Sheet No. A9.0
of:



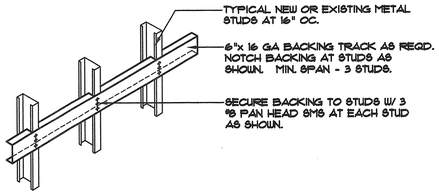
10 BASE TRACK PLAN @ PARTIAL WALL 3"=1'-0"



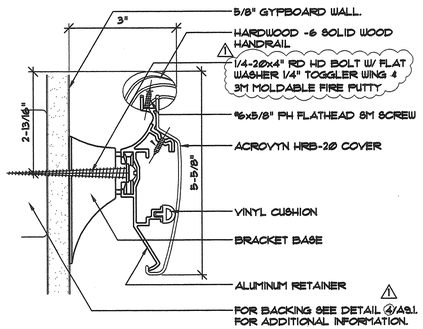
8 EQUIPMENT ANCHORAGE NO SCALE



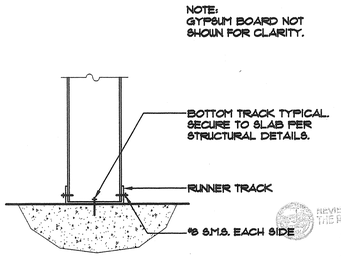
3 NURSING STATION CASEWORK 3/4"=1'-0"



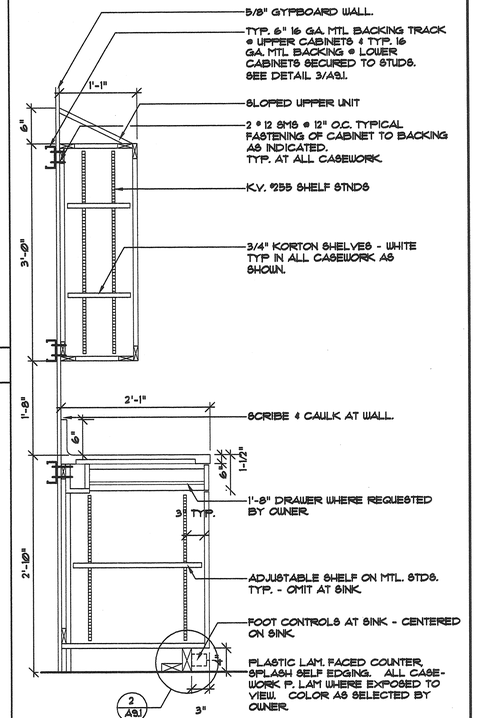
4 BACKING 3/4"=1'-0"



5 CORRIDOR HANDRAIL 3"=1'-0"

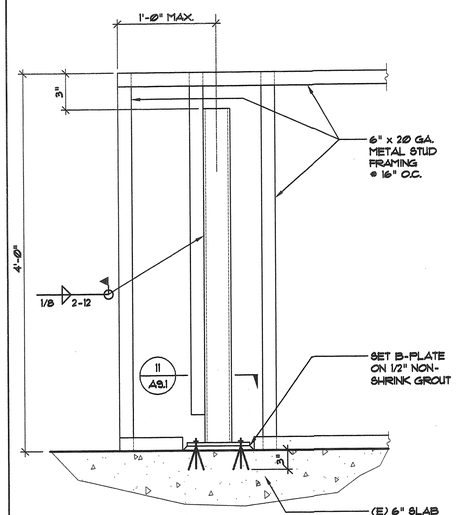


6 BASE TRACK @ PARTIAL WALL 1-1/2"=1'-0"

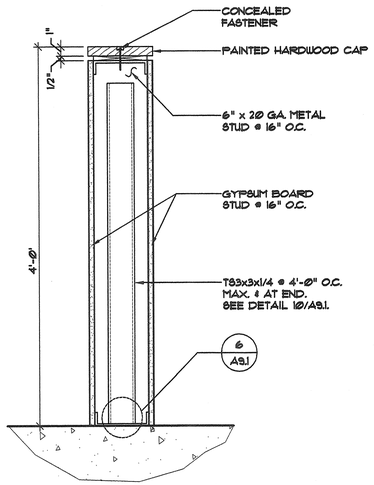


1 SECTION @ CASEWORK 1"=1'-0"

2 CASEWORK ANCHORAGE 3"=1'-0"



9 ELEV - PARTIAL HEIGHT WALL 1-1/2"=1'-0"



7 INTERIOR PARTIAL HEIGHT WALL 1-1/2"=1'-0"

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REGISTERED ARCHITECT #C - 011,242

Revisions:	
PC COMMENTS 10-01-14	⚠
OSHPD# 514067 11-41	
	⚠

MISCELLANEOUS DETAILS

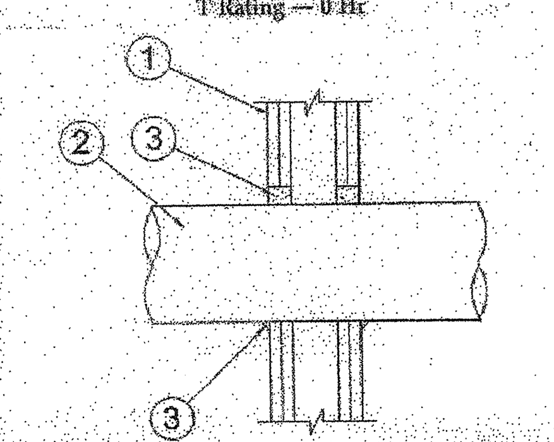
2nd FLOOR POST-OP RECOVERY EXPANSION

SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

PROJECT NUMBER 12941

Date: 01-15-14
Scale: 1/8"=1'-0"
Sheet No. **A9.1**
of:

System No. W-L-1297
F Rating — 2 Hr
T Rating — 0 Hr



1. **Wall Assembly** — The 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features.
   A. **Studs** — Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
   B. **Gypsum Board*** — Nom 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the Fire Resistance Directory. Max diam of opening is 31-7/8 in.
2. **Through Penetrant** — One metallic pipe, conduit or tubing installed concentrically or eccentrically within the firestop system. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tube to be rigidly supported on both sides of wall assembly. The annular space between the pipe, conduit or tube and periphery of the opening shall be min 0 in (point contact) to max 1-7/8 in. The following types and sizes of metallic pipes, conduit or tube may be used:
   A. **Steel Pipe** — Nom 30 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.
   B. **Iron Pipe** — Nom 30 in. diam (or smaller) cast or ductile iron pipe.
   C. **Conduit** — Nom 4 in. diam (or smaller) steel electrical metallic tubing (EMT) or 6 in. diam steel conduit.
   D. **Copper Tube** — Nom 6 in. diam (or smaller) Type L (or heavier) copper tube.
   E. **Copper Pipe** — Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
3. **Fill, Void or Cavity Material*-Sealant** — Min 1-1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe and wall, a min ½ in. diam bead of fill material shall be applied at the pipe/wall interface.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI INC —CP606 Flexible Firestop Sealant

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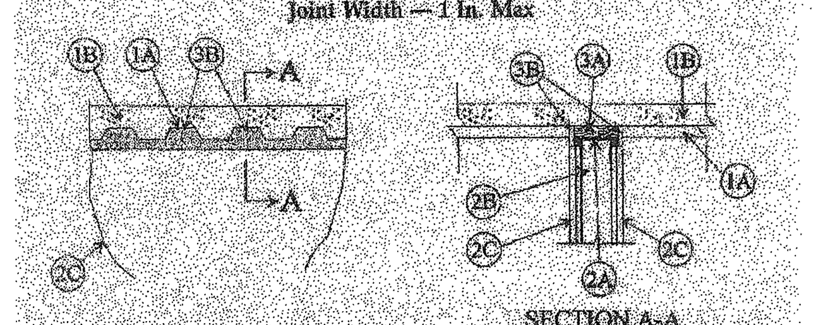
5 UL DESIGN NO. W-L-1297
NO SCALE

System No. HW-S-0003
Assembly Ratings — 1 & 2 Hr (See Item 2)
Joint Width — 1 In. Max



1. **Floor Assembly** — The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Steel Floor And Form Units*** — Max 1-1/2 in. deep galv or phos/painted fluted units.
   B. **Concrete** — Min 3 in. thick reinforced concrete, as measured from the top plane of the floor units.
2. **Wall Assembly** — The 1 or 2 hr fire rated gypsum wallboard/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U400-Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Steel Floor And Ceiling Runners** — Floor and ceiling runners of wall assembly shall consist of min 25 gauge galv steel channels sized to accommodate steel studs (Item 2B). Ceiling runner to be provided with min 1-1/4 in. flanges. Ceiling runner secured to valleys of steel floor units (Item 1A) with steel fasteners or by welds spaced max 24 in. OC.
   B. **Studs** — Steel studs to be min 3-5/8 in. wide. Studs cut 1 in. less in length than assembly height with bottom nesting in and resting on the floor runner and with top nesting in ceiling runner without attachment. Stud spacing not to exceed 24 in. OC.
   C. **Gypsum Board*** — Wallboard sheets installed to a min total thickness of 1/2 or 1 in. on each side of wall for a 1 or 2 hr fire rated wall, respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a nom 1 in. gap shall be maintained between the top of the wallboard and the bottom of the steel floor units and the top row of screws shall be installed into the studs 1-3/4 in. below the valleys of the steel floor units. The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.
3. **Joint System** — Max separation between bottom of floor and top of wall is 1 in. The joint system consists of a forming material and a fill material in the flutes of the steel floor units and between the top of the wallboard and bottom of the steel floor units, as follows:
   A. **Packing Material** — For 1 or 2 Hr Rated Designs, a 3-1/2 in. or 4-1/2 in. thickness, respectively, of min 4 pcf density mineral wool batt insulation is firmly packed into flutes of the steel floor units and between the top of the wallboard and bottom of the steel floor units, and recessed from each surface of wall to accommodate the required thickness of fill material.
   B. **Fill, Void or Cavity Material*** — Min 1/2 in. thickness of fill material installed on each side of the wall in the flutes of the steel floor units and between the top of the wallboard and the bottom of the steel floor units (concrete floor), flush with each surface of wallboard.
   MINNESOTA MINING & MFG CO—CP 25WB+ or CP-25N/S

*Bearing the UL Classification Mark

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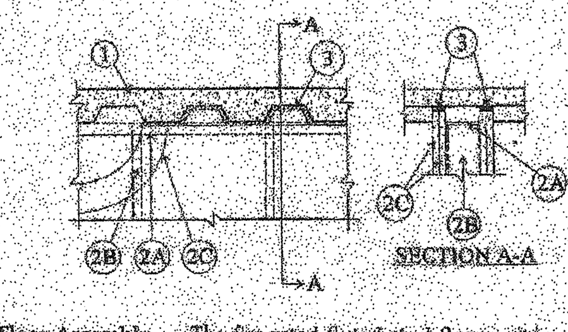
6 UL DESIGN NO. HW-S-0003
NO SCALE

System No. HW-D-0076
Assembly Ratings — 1 and 2 Hr (See Items 2 and 3)
Nominal Joint Width — 3/4 in.
Class II Movement Capabilities — 17% Compression or Extension



1. **Floor Assembly** — The fire-rated fluted steel floor unit/concrete floor assembly shall be constructed of the materials and in the manner described in the individual Floor-Ceiling Design in the Fire Resistance Directory and shall include the following construction features:
   A. **Steel Floor and Form Units*** — Max 3 in. deep galv steel fluted floor units.
   B. **Concrete** — Min 2-1/2 in. thick reinforced concrete, as measured from the top plane of the floor units.
   C. **Spray-Applied Fire Resistive Materials** — (Optional, Not Shown) — Prior to the installation of the ceiling runner and Fill, Void or Cavity Materials (Item 3), the steel floor units may be sprayed with a min 5/16 in. thickness to a max 11/16 in. thickness of fire resistive material.
   W R GRACE & CO - CONN
   CONSTRUCTION PRODUCTS DIV — Type MK-6/HY
2. **Wall Assembly** — The 1 or 2 hr fire-rated gypsumboard /steel stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Steel Floor and Ceiling Runners** — Floor and ceiling runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2B). Ceiling runner to be provided with 2 in. flanges. Ceiling runner secured to valleys of steel floor units (Item 1A) through fire resistive material with steel fasteners or by welds spaced 12 in. OC.
   A1. **Light Gauge Framing*-Slotted Ceiling Runner** — As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling runner installed perpendicular to direction of fluted steel floor units and secured to valleys with steel fasteners spaced max 24 in. OC.
   SLIPTRACK SYSTEMS INC — —SLP-TRK
   A2. **Light Gauge Framing*-Vertical Deflection Ceiling Runner** — As an alternate to the ceiling runners in Items 2A and 2A1, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips, provided with step bushings, for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2B). Vertical deflection ceiling runner installed perpendicular to direction of fluted steel floor units and secured to valleys with steel fasteners spaced max 24 in. OC.
   THE STEEL NETWORK INC — —VertiTrack VTD250, VTD358, VTD400, VTD600 and VTD800
   B. **Studs** — Steel studs to be min 2-1/2 in. wide. Studs cut 1/2 to 3/4 in. less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. long wafer head steel screws at midheight of slot on each side of wall. Stud spacing not to exceed 24 in. OC. When verticla deflection ceiling runner (Item 2A2) is used. Stud spacing not to exceed 24 in. OC. When vertical deflection ceiling runner (Item 2A2) is used, steel studs secured to slotted vertical deflection clips, through the bushings, with steel screws at midheight of each slot. Stud spacing not to exceed 24 in. OC.
   C. **Gypsum Wallboard*** — Gypsumboard installed to a min total thickness 5/8 of 1-1/4 in. on each side of wall, for 1 or 2 hr fire resistance rated walls, respectively. Wall to be constructed as specified in the individual U400 Series Design in the UL Fire Resistance Directory, except that the gypsumboard is cut to fit the contour of the steel floor units with a max 3/4 in. gap. The screws attaching the gypsumboard to the studs at the top of the first layer shall be located 4 in. from the steel floor unit valleys. The screws attaching the second layer to the steel studs shall be installed into the studs 3-1/2 in. below the valleys of the steel floor units. **The hourly fire rating of the joint system is dependent on the hourly ratings of the wall.**
3. **Fill, Void or Cavity Material* — Sealant** — Max separation between bottom of floor and top of wall is 3/4 in. **The joint system is designed to accommodate a max 17 percent compression or extension from its installed width.** Min 1-1/4 in. thickness of fill material flush with the surface of the wallboard for 2 hr fire rated systems or 5/8 in. thickness plus a 1/4 in. crown of fill material for 1 hr fire rated systems installed on each side of the wall between the top of the gypsumboard and the bottom of the steel floor units.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI INC —CP601S Elastomeric Firestop Sealant

*Bearing the UL Classification Mark

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3 UL DESIGN NO. HW-D-0076

System No. BW-S-0007
XHBN.BW-S-0007
Joint Systems

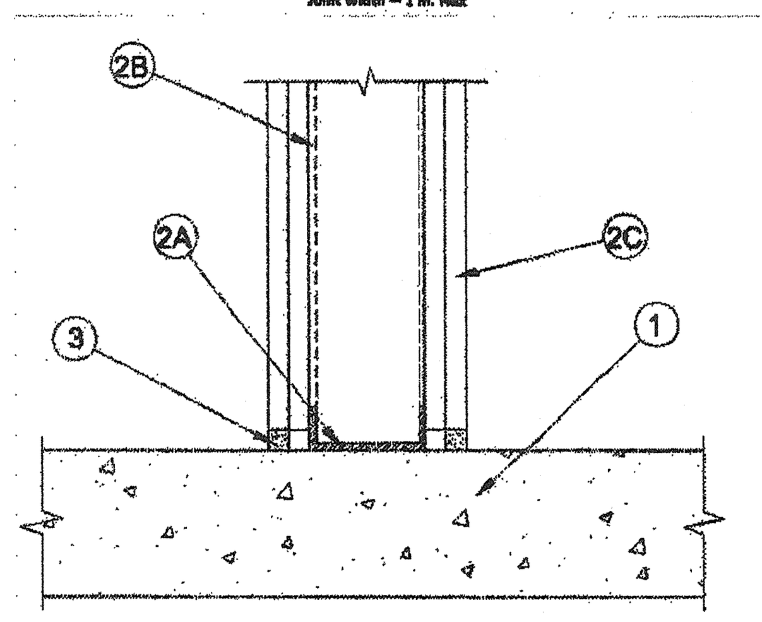
May 18, 2005

Assembly Ratings — 1 and 2 Hr (See Item 2)

L Rating at Ambient — Less Than 1 CFM/lin ft

L Rating at 400° F — Less Than 1 CFM/lin ft

Joint Width — 1 in. Max



1. **Floor Assembly** — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) structural concrete. Floor may also be constructed of any 6 in. (152 mm) thick UL Classified hollow-core **Precast Concrete Units***.

   See **Precast Concrete Units** category in the Fire Resistance Directory for names of manufacturers. 2.

2. **Wall Assembly** — The 1 or 2 h fire-rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory. In addition, the wall may incorporate a head-of-wall joint system constructed as specified in the HW Series Joint Systems in the UL Fire Resistance Directory. The wall shall include the following construction features:

   A. **Steel Floor Runner** — Floor runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2C). Floor runners to be provided with min 1-1/4 in. (32 mm) flanges. Runners secured with steel fasteners spaced 12 in. (305 mm) OC.

   B. **Studs** — Steel studs to be min 3-1/2 in. wide. (89 mm) Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in, resting on and fastened to floor runner with sheet metal screws. Stud spacing not to exceed 24 in. (610 mm) OC.

   C. **Gypsum Board*** — Gypsum board installed to a min total thickness of 5/8 or 1-1/4 in. (16 or 32 mm) on each side of wall for a 1 or 2 hr rated wall, respectively. Wall to be constructed as specified in the individual U400 or V400 Series Design in the UL Fire Resistance Directory, except that a max 1 in. (25 mm) gap shall be maintained between the bottom of gypsum board and top of concrete floor.

   The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.

3. **Fill, Void or Cavity Material* - Caulk or Sealant** — Max separation between top of floor and bottom of gypsum board is 1 in. (25 mm). Min 5/8 in. (16 mm) thickness of fill material installed on each side of the wall between the bottom of the gypsum board and the top of the concrete floor, flush with each surface of the wall.

3M COMPANY — FB1000 NS, FB-2000, FB-2000+, FB-3000 WT sealant, FireDam 150+, IC 15WB+, CP 25WB+ caulk

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
FEB 25 2015
Office of Statewide Health Planning & Development
FACILITIES DEVELOPMENT DIVISION

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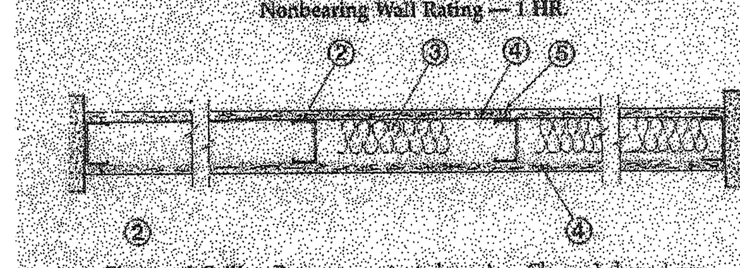
4 UL DESIGN NO. BW-S-0007

Design No. U465
Nonbearing Wall Rating — 1 HR.



1. **Floor and Ceiling Runners** — (not shown) — Channel shaped runners, 3-5/8 in. wide (min), 1-1/4 in. legs, formed from min No. 25 MSG (min No. 20 MSG when Item 4C is used) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
2. **Steel Studs** — Channel shaped, 3-5/8 in. wide (min), 1-1/4 in. legs, 3/8 in. folded back returns, formed from min No. 25 MSG (min No. 20 MSG when Item 4C is used) galv steel spaced 24 in. OC max.
3. **Batts and Blankets*** — (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity.
   See Batts and Blankets (BZJZ) category for names of Classified companies.
4. **Gypsum Board*** — 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When attached to item 6 (furring channels), wallboard is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC.
   AMERICAN GYPSUM CO—Type AG-C.
   BEIJING NEW BUILDING MATERIALS CO LTD—Type DBX-1.
   BPB AMERICA INC
   BPB CELOTEX—Type 1.
   CANADIAN GYPSUM COMPANY—Types AR, C, IP-AR, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.
   CONTINENTAL GYPSUM COMPANY—Types CG-C, CG5-5, CG6-6, CG9-9, CGTC-C.
   G-P GYPSUM CORP, SUB OF
   GEORGIA-PACIFIC CORP—Types 5, 9, C, DGG, DS, GPFS6.
   JAMES HARDIE GYPSUM INC—Type Max "C" or Fire X.
   LAFARGE GYPSUM, DIV OF
   LAFARGE CORP—Types LGFC2, LGFC2A, LGFC6, LGFC6A, LGFC-C, LGFC-C/A.
   NATIONAL GYPSUM CO—Types FSK-C, FSK-G, FSW-C, FSW-G, FSW.
   PABCO GYPSUM, DIV OF
   PACIFIC COAST BUILDING PRODUCTS INC—Type PG-C.
   REPUBLIC GYPSUM CO—Type RG-C.
   SIAM GYPSUM INDUSTRY CO LTD—Type EX-1.
   STANDARD GYPSUM L L C—Type SG-C.
   TEMPLE-INLAND FOREST PRODUCTS CORP—Type TG-C.
   UNITED STATES GYPSUM CO—Type AR, C, FRX-G, IP-AR, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.
   YESO PANAMERICANO S A DE C V—Type AR, C, IP-AR, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.
   WESTROC INC—Type Westroc Fireboard.

4A. **Gypsum Board*** — (As an alternate to Item 4) — Nom 3/4 in. thick, 4 ft wide, installed as described in Item 4 with screw length increased to 1-1/4 in.
   CANADIAN GYPSUM COMPANY—Types AR, IP-AR.
   UNITED STATES GYPSUM CO—Types AR, IP-AR.
   YESO PANAMERICANO S A DE C V—Types AR, IP-AR.
4C. **Gypsum Board*** — (As an alternate to Item 4, 4A and 4B) — 5/8 in. thick gypsum panels, installed as described in Item 4 with Type S-12 steel screws. The length and spacing of the screws as specified under Item 4.
   CANADIAN GYPSUM COMPANY—Type FRX.
   UNITED STATES GYPSUM CO—Type FRX.
5. **Joint Tape and Compound** — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced.
6. **Furring Channel** — (Optional-Not Shown) — Resilient 25 MSG galv steel furring channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 panhead steel screws. Not for use with Type FRX gypsum panels.

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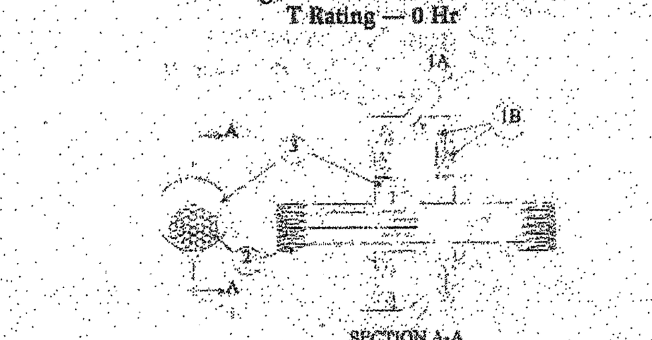
1 UL DESIGN NO. U-465
NO SCALE

System No. W-L-3065
F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr



SECTION A-A

1. **Wall Assembly** — The 1 or 2 fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
   B. **Gypsum Board*** — Nom 5/8 in. thick gypsum wallboard, with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Designs in the UL Fire Resistance Directory. Max diam of opening is 4 in.

   The F Rating of the firestop system is equal to the fire rating of the wall assembly.
2. **Metallic Sleeve** — (Optional) - Nom 4 in. diam (or smaller) steel electrical metallic tubing (EMT) or Schedule 5 (or heavier) steel pipe or min 0.016 in. thick (28 MSG) galv steel sleeve cast into wall assembly with joint compound and installed flush with wall surfaces. When Schedule 5 steel pipe or EMT is used, sleeve may extend up to 18 in. beyond the wall surfaces.
3. **Cables** — Aggregate cross-sectional area of cable in opening to be max 45 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 1/4 in. to max 3/4 in. Cables to be ridigly supported on both sides of the wall assembly. Any combination of the following types and sizes of copper conductor cables may be used:
   A. Max 7/C No. 12 AWG with polyvinyl-chloride (PVC) insulation and jacket.
   B. Max 25 pair No. 24 AWG telephone cable with PVC insulation and jacket.
   C. Type RG 59/U coaxial cable with polyethylene (PE) insulation and PVC jacket.
   D. Multiple fiber optical communication cable jacketed with PVC and having a max OD of 5/8 in.
   E. Through Penetrating Products*— Max three copper conductor No. 8 AWG Metal-Clad Cable+
   AFC CABLE SYSTEMS INC
   F. Max 3/C (with ground)(or smaller) No. 8 AWG copper conductor cable with PVC insulation and jacketing.
4. **Fill, Void or Cavity Material*** — Sealant Fill material applied within the annulus, flush with each end of the steel sleeve or wall surface. Fill material installed symmetrically on both sides of the wall. A min 5/8 in. thickness of sealant is required for the 1 or 2 hr F Rating. An additional 1/2 in. diam bead of fill material shall be applied around the perimeter of sleeve on both sides of the wall when sleeve extends beyond surface of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI INC — CP601S, CP606 or FS-One Sealant

*Bearing the UL Classification Mark

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2 UL DESIGN NO. W-L-3065
NO SCALE

RCG
ARCHITECTURE

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Tel: (650) 349-6549
Fax: (650) 349-2940

ROBERT C. GOOYER, AIA, FHFI

REGISTERED ARCHITECT
#C - 011,242

Stamp:
REGISTERED PROFESSIONAL ARCHITECT
ROBERT CORNELIS GOOYER
C-011242
EXP. 6/30/15
STATE OF CALIFORNIA

Revisions:	
PC COMMENTS 10-01-14	1

OSHPD# S140671-41

UL ASSEMBLIES & HEAD CONNECTIONS

2nd FLOOR POST-OP RECOVERY EXPANSION

SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

PROJECT NUMBER
12941

Date: 01-15-14
Scale: 1/8"=1'-0"
Sheet No.
A9.2
of:

4. PROVIDE TRACKS TO MATCH STUD DEPTH & GAGE, 1¼" LEG.

5. PUNCH–OUTS MAY BE LOCATED ALONG THE CENTERLINE OF THE WEBS OF FRAMING MEMBERS. PUNCH–OUTS SHALL HAVE A MINIMUM CENTER–TO–CENTER SPACING OF 24" AND BE 12" FROM MEMBER ENDS. PUNCH–OUTS SHALL HAVE A MAXIMUM WIDTH OF HALF THE MEMBER DEPTH OR 2", WHICHEVER IS LESS, AND A MAXIMUM LENGTH OF 4".

6. SPLICES IN STUDS AND BRACES SHALL NOT BE PERMITTED.

7. ALL FRAMING SHALL BE COORDINATED WITH GLAZING MANUFACTURER, MECHANICAL, ELECTRICAL, PLUMBING AND OTHER TRADES.

8. POWDER ACTUATED FASTENERS (PAF) SHALL BE X–U AS MANUFACTURED BY HILTI, ICBO REPORT NO. 2269 OR APPROVED EQUAL. PROVIDE 0.08" THICK X 1.1" SQ OR 1.425" ROUND WASHERS FOR ALL POWDER ACTUATED FASTENERS.

9. PROVIDE BRIDING PER DETAIL 7 AT PORTIONS OF WALL WITHOUT SHEATHING EACH SIDE.

EPOXY ANCHORS

1. EPOXY ANCHOR INSTALLATION VALUES:

EPOXY ANCHORS IN NORMAL–WEIGHT CONCRETE (f'_c = 3000) PSI			
THREADED ROD DIAMETER (in.)	REBAR SIZE	MIN. EMBED. (in.)	TENSION TEST VALUE (lbs.) (see DSA/OSHPD)
⅜	#3	3"	3,120
½	#4	4"	5,480
⅝	#5	5"	8,320
¾	#6	6"	11,480
⅞	#7	7"	12,100

2. EPOXY SHALL BE HILTI RE–500–SD OR SIMPSON SET–XP. INSTALLATION SHALL COMPLY WITH LATEST ICC REPORT.

3. CARBON STEEL THREADED RODS SHALL CONFORM TO ASTM A193 GRADE B7. REINFORCING BARS SHALL COMPLY WITH ASTM A615 GRADE 60.

4. SPECIAL INSPECTION OF ANCHORS IS REQUIRED AND SHALL COMPLY WITH CBC CHAPTER 17. THE SPECIAL INSPECTOR MUST BE ON THE JOB SITE PERIODICALLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSION, CONCRETE STRENGTH AND TYPE, HOLE DIMENSION AND CLEANLINESS, ANCHOR SPACING AND EDGE DISTANCE, CONCRETE THICKNESS, ANCHOR EMBEDMENT AND TIGHTENING TORQUE. THE SPECIAL INSPECTOR MUST VERIFY THE INITIAL INSTALLATIONS OF EACH TYPE AND SIZE BY CONSTRUCTION PERSONNEL ON SITE. SUBSEQUENT INSTALLATIONS OF SIMILAR ANCHORS BY THE SAME CONSTRUCTION PERSONNEL MAY BE PERFORMED IN THE ABSENCE OF THE SPECIAL INSPECTOR.

5. WHEN INSTALLING DRILLED–IN ANCHORS IN EXISTING NON–PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING ANCHORS INTO EXISTING PRESTRESSED CONCRETE (PRE OR POST TENSIONED), LOCATE THE PRESTRESSED TENDONS BY USING A NON DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXCERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION.MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED–IN ANCHORS.

6. [FOR DSA/OSHPD] TENSION TEST ANCHORS TO VALUES TABULATED ABOVE. TEST 10% OF ANCHORS FOR SILL PLATE BOLTING, 50% OF ANCHORS USED FOR EQUIPMENT ANCHORAGE, AND 100% OF ALL OTHER ANCHORS UNLESS NOTED ON DRAWINGS. TENSION–TESTED ANCHORS SHALL MAINTAIN THE TEST LOAD FOR 15 SECONDS AND SHALL EXHIBIT NO DISCERNIBLE MOVEMENT DURING THE TENSION TEST ; E.G. AS EVIDENCED BY LOOSENING OF THE WASHER UNDER THE NUT.

EXPANSION ANCHORS

1. EXPANSION ANCHOR INSTALLATION VALUES:

EXPANSION ANCHORS IN NORMAL–WEIGHT CONCRETE (f'_c = 3000) PSI			
ANCHOR DIAMETER (in.)	MINIMUM EMBEDMENT (in.)	INSTALLATION/ TEST TORQUE (ft.–lbs)	TENSION TEST LOAD (lbs.)
⅜	2	25	2,204
½	3¼	40	4,772
⅝	4	60	6,602
¾	4¾	110	8,544

2. TYPICAL EXPANSION ANCHORS ARE CARBON STEEL HILTI KWIK BOLT TZ. INSTALLATION SHALL COMPLY WITH ICC REPORT ESR–1917, LATEST EDITION.

3. SPECIAL INSPECTION OF ANCHORS IS REQUIRED AND SHALL COMPLY WITH CBC CHAPTER 17A. THE SPECIAL INSPECTOR MUST BE ON THE JOB SITE CONTINUOUSLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSION, CONCRETE STRENGTH AND TYPE, HOLE DIMENSION AND CLEANLINESS, ANCHOR SPACING AND EDGE DISTANCE, CONCRETE THICKNESS, ANCHOR EMBEDMENT AND TIGHTENING TORQUE.

4. WHEN INSTALLING DRILLED–IN ANCHORS IN EXISTING NON–PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING ANCHORS INTO EXISTING PRESTRESSED CONCRETE (PRE OR POST TENSIONED), LOCATE THE PRESTRESSED TENDONS BY USING A NON DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED–IN ANCHORS.

5. [FOR DSA/OSHPD] TENSION TEST OR TORQUE TEST ANCHORS TO VALUES TABULATED ABOVE. TEST 10% OF ANCHORS USED FOR SILL PLATE BOLTING, 50% OF ANCHORS USED FOR EQUIPMENT ANCHORAGE, AND 100% OF ALL OTHER ANCHORS U.O.N. ON DRAWINGS TENSION–TESTED ANCHORS SHALL MAINTAIN THE TEST LOAD FOR A MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCERNIBLE MOVEMENT DURING THE TENSION TEST ; E.G. AS EVIDENCED BY LOOSENING OF THE WASHER UNDER THE NUT. TORQUE–TESTED ANCHORS MUST ATTAIN THE SPECIFIED TORQUE WITHIN TURN OF THE NUT.

SPECIAL INSPECTION:

SPECIAL INSPECTION SHALL BE PROVIDED PER CBC SECTION 1704A & 1707A FOR THE FOLLOWING ITEMS. SUBMIT TEST REPORTS TO THE ARCHITECT, JURISDICTION AND OWNER.

1. INSTALLATION OF ALL EMBEDDED ANCHORS, EXPANSION ANCHORS, AND EPOXY ANCHORS.

CONTRACTOR SUBMITTALS:

1. PROVIDE SHOP DRAWINGS FOR ALL REINFORCING STEEL, SHOWING BENDING, PLACEMENT DETAILS, SIZE AND LOCATION.

2. PROVIDE CERTIFIED COPIES OF ALL CONCRETE MIX DESIGNS INCLUDING COMPRESSIVE STRENGTH TEST REPORTS ONE WEEK PRIOR TO INSTALLATION OF ANY CONCRETE.

3. PROVIDE SHOP DRAWINGS FOR ALL STRUCTURAL STEEL, SHOWING DETAILS INCLUDING CUTS, COPES, CONNECTIONS, HOLES, FASTENERS, AND WELDS.

GENERAL

1. SEE DRAWINGS OTHER THAN STRUCTURAL FOR: TYPES OF FLOOR FINISH AND THEIR LOCATION, FOR DEPRESSIONS IN FLOOR SLABS, FOR OPENINGS IN WALLS AND FLOORS REQUIRED BY ARCHITECTURAL AND MECHANICAL FEATURES, FOR STAIRS, CURBS, ETC.

2. DRAWINGS AND SPECIFICATIONS REPRESENT FINISHED STRUCTURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO SHORING AND TEMPORARY BRACING. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO INSURE SAFETY OF ALL PERSONS AND STRUCTURES AT THE SITE AND ADJACENT TO THE SITE. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT, ENGINEER OR CONSTRUCTION MANAGER SHALL NOT RELIEVE THE CONTRACTOR OF SUCH RESPONSIBILITY.

3. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND RESOLVED BEFORE PROCEEDING WITH THE WORK.

4. DO NOT USE SCALED DIMENSIONS; USE WRITTEN DIMENSIONS. WHERE NO DIMENSION IS PROVIDED, CONSULT THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.

5. IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR CALLED FOR ON THE DRAWINGS OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE CALLED FOR OR SHOWN. ALL DETAILS REFERENCED ONCE SHALL APPLY TO ALL SIMILAR CONDITIONS.

6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSARY LICENSES AND PERMITS. THE CONTRACTOR SHALL CONFORM TO ALL STATE AND LOCAL LAWS GOVERNING THE WORK.

7. ALL CONSTRUCTION TO BE PERFORMED IN A MANNER TO MINIMIZE IMPACT ON THE CONTINUING OPERATION OF THE BUILDING & SITE. CONTRACTOR TO PROVIDE APPROPRIATE BARRIERS AROUND CONSTRUCTION. COORDINATE ALL OPERATIONS WITH THE OWNER.

8. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES BEFORE BEGINNING WORK. SPECIAL CARE SHALL BE TAKEN TO PROJECT UTILITIES THAT ARE TO REMAIN IN SERVICE DURING CONSTRUCTION.

9. ALL FINISHES, STRUCTURAL ELEMENTS AND ARCHITECTURAL FEATURES AFFECTED BY CONSTRUCTION TO BE REPAIRED AND/OR REPLACED TO MATCH EXISTING CONSTRUCTION.

EXISTING CONSTRUCTION

1. WORK SHOWN IS NEW UNLESS NOTED AS EXISTING: (E).

2. THE CONTRACTOR SHALL VERIFY ALL EXISTING JOB CONDITIONS, REVIEW ALL DRAWINGS AND VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL DISCREPANCIES AND EXCEPTIONS BEFORE PROCEEDING WITH THE WORK.

3. THE REMOVAL, CUTTING, DRILLING, ETC. OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE AND SMALL TOOLS IN ORDER NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING. IF STRUCTURAL MEMBERS OR MECHANICAL, ELECTRICAL, OR ARCHITECTURAL FEATURES NOT INDICATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED AND PRIOR APPROVAL SHALL BE OBTAINED BEFORE REMOVAL OF MEMBERS.

4. THE CONTRACTOR SHALL SAFELY SHORE EXISTING CONSTRUCTION WHEREVER EXISTING SUPPORTS ARE REMOVED TO ALLOW THE INSTALLATION OF THE NEW WORK. ALL SHORING METHODS AND SEQUENCING OF DEMOLITION SHALL BE SPECIFIED BY A LICENSED STRUCTURAL ENGINEER TO BE RETAINED BY THE CONTRACTOR. SEE SPECIFICATIONS FOR DETAILED REQUIREMENTS.

DESIGN BASIS

1. APPLICABLE CODE: CALIFORNIA BUILDING CODE, 2013 EDITION WITH OSHPD AMENDMENTS.

2. VERTICAL LIVE LOADS:

FLOOR: 50 PSF
ROOF: 20 PSF

3. SEISMIC LOADS:

OCCUPANCY CATEGORY IV
SEISMIC IMPORTANCE FACTOR I=1.5
SITE CLASS D
SEISMIC DESIGN CATEGORY D
S_S = 1.98 , S_1 = 0.93 , S_{DS}=1.32

METAL STUDS

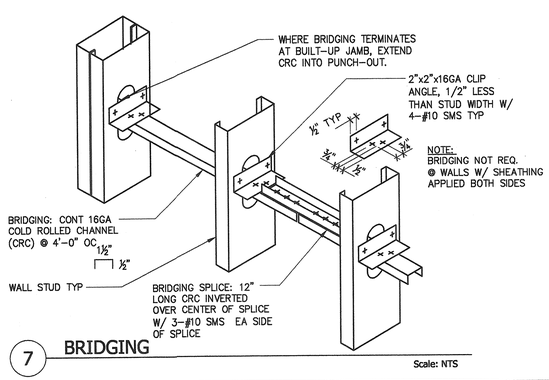
1. PROVIDE STUDS, TRACKS AND BRACING PER SCHEDULE BELOW:

INTERIOR METAL STUD SCHEDULE
REF.: STEEL STUD MANUFACTURER'S ASSOCIATION ICBO 4943P

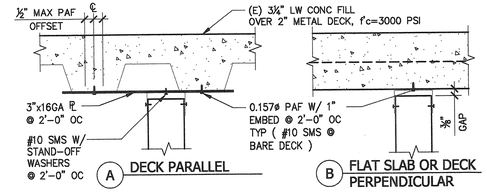
NOMINAL SIZE	CATALOG SIZE	MINIMUM PROPERTIES			SPACING (INCHES)	MAX. HEIGHT H (FEET)
		Ix in^4	Sx in^3	Ma in–k		
6"x16GA	600S162–54	2.860	0.927	27.76	16	16'–0"
6"x18GA	600S162–43	2.316	0.767	16.68	16	16'–0"
3⅝"x18GA	3625125–43	0.536	0.285	5.64	16	16'–0"
3⅝"x16GA	3625125–54	0.655	0.341	10.20	16	16'–0"

2. ALL STUDS AND TRACKS SHALL CONFORM TO ASTM A653, A1008 OR A1011. 18GA AND LIGHTER: MINIMUM YIELD POINT OF 33 KSI 16GA AND HEAVIER: MINIMUM YIELD POINT OF 50 KSI ALL STUDS AND TRACKS SHALL BE MANUFACTURED BY CURRENT MEMBERS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) LISTED IN ICBO REPORT NO. 4934P. ALL STUDS AND TRACK SHALL COMPLY WITH ICBO REPORT NO. 4934P.

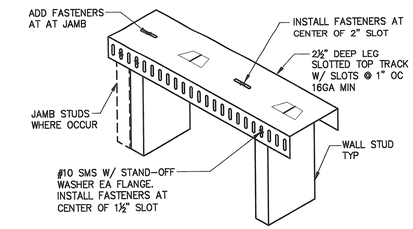
3. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY OR ON AN ANGLE (SUCH AS BRACING) TO SQUARELY FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD FIRMLY IN POSITION UNTIL PROPERLY FASTENED.



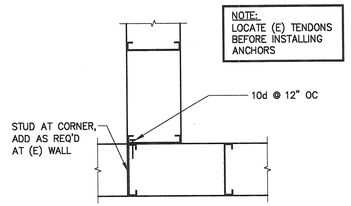
7 BRIDGING
Scale: NTS



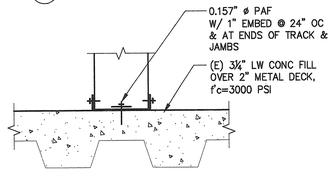
A DECK PARALLEL
B FLAT SLAB OR DECK PERPENDICULAR



4 INTERIOR TOP TRACK
Scale: NTS

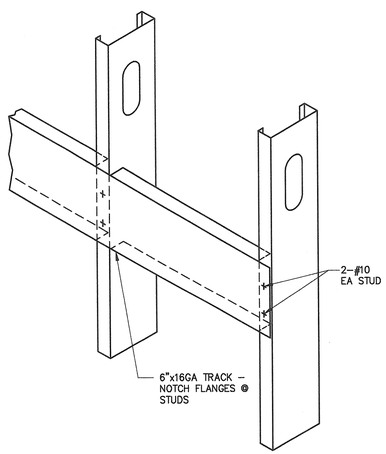


B WALL INTERSECTION

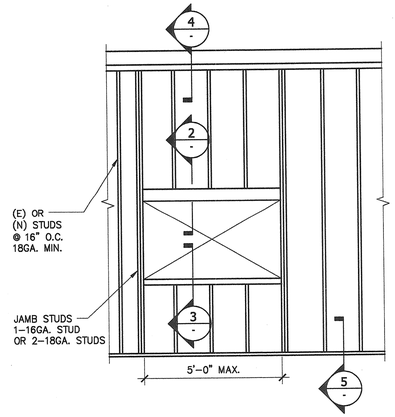


A TYPICAL INTERIOR

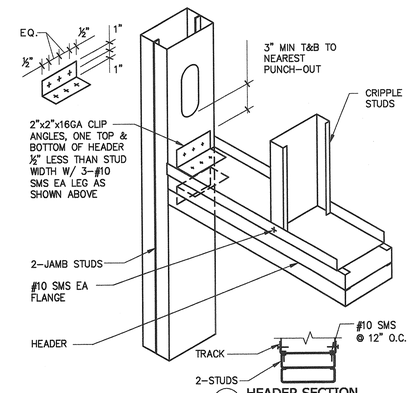
5 BOTTOM TRACK & WALL INTERSECTION
Scale: NTS



6 BACKING PLATE DETAIL
Scale: NTS

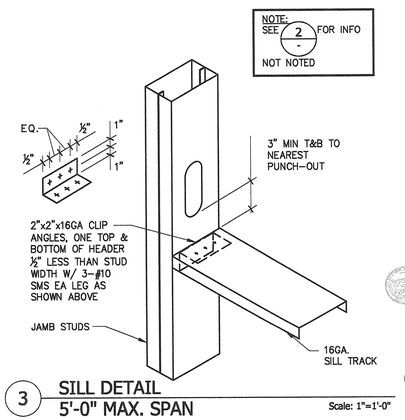


1 WALL FRAMING ELEVATION
Scale: 1"=1'–0"



A HEADER SECTION

2 HEADER DETAIL
5'–0" MAX. SPAN
Scale: 1"=1'–0"



3 SILL DETAIL
5'–0" MAX. SPAN
Scale: 1"=1'–0"

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF 17A, CCR
APPROVED
FEB 25 2015
Office of Statewide Health Planning & Development
FACILITIES DEVELOPMENT DIVISION

OSHPD 20141008–17

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KPW
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Revisions:
10–1–14

DETAILS AND GENERAL NOTES
2nd FLR POST–OP RECOVERY EXPANSION
SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

PROJECT NUMBER
12941

Date: 1–15–14
Scale: AS NOTED
Sheet No.
S1
of:

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SECTION 15050 - GENERAL MECHANICAL REQUIREMENTS

PART 1 - GENERAL

1.01 Related Documents: Requirements of the Contract Documents, including Division 1 specifications, apply to work of this Section.

1.02 Scope of Work:

A. Provide labor, material, equipment, and services required to furnish and install work in sections below.

B. Intent of Specifications: In the Specifications, plans, schedules, and details, information conveyed by means of brief mention or notation which regardless of brevity, shall be binding exactly as if presented in complete sentences employing mandatory language. Work not explicitly detailed in the Specification; or Drawings, but clearly standard practice of the trade as necessary to complete the systems shall be included as though fully specified and drawn.

C. Examination of the Site: Examine the site and premises prior to bidding to determine conditions under which the work is to be performed. No allowance will be made for extra expense incurred due to failure to examine the premises. Existing site conditions, locations of services and all requirements of the existing utilities shall be coordinated with the drawings and specifications.

1.03 Drawings and Specifications

A. With the exception of systems and equipment furnished by Owner, it is intended that work covered by specifications and drawings includes everything requisite and necessary to make various systems complete and operative, irrespective of whether or not every item is specifically provided. Any omission of direct reference herein to any essential item shall not excuse contractor from complying with above intent.

B. Figured dimensions supersede scaled ones. Contractor shall take no advantage of, and shall promptly call Architects attention to any error, omission or inconsistency in specifications and drawings.

C. Special attention is directed to requirement that equipment and materials stated in specifications and/or indicated on drawings shall be furnished, completely installed, adjusted, and left in safe and satisfactory operating condition.

D. Materials, apparatus or equipment specified or otherwise provided for on drawings, addenda, or change order issued subsequent to award or contract, shall be same brand, type, quality and character originally specified unless otherwise provided for in addenda or change order.

E. Layout of equipment, accessories, specialties and suspended, concealed, or exposed piping systems are diagrammatic, unless dimensioned. In preparing shop drawings, Contractor shall check project conditions before installing work. If there are any interference's or conflicts, they shall be called to attention of Architect immediately for clarifications.

1.04 Permits, Fees and Inspections: Contractor shall pay for all utility permits, licenses, fees and inspections required. Contractor shall make all arrangements for permits with utility companies, utility districts, and Fire Marshall. Contractor shall not allow or cause any of his work to be covered up or enclosed until it has been reviewed and/or witnessed tests by Owner or Owner's representative and by government authorities having jurisdiction over this work.

1.05 Submittals: Submit product data for review in accordance with contract documents. Prior to submitting product data, Contractor shall check for dimensional correctness, interference's, (fit available space), and conformance to specifications and plans. Contractor shall stamp drawings to indicate that stipulated check has been made. Identify submittal data by project name, specification section, and equipment identification number. Cuts or catalogs, including descriptive literature and characteristics of equipment shall show major dimensions, capacities, curves, pressure drops, control diagram, finish, code compliance, and motor and drive data; special instructions for shop drawings may be included with the itemized specification below. Submit proof of Title 24 compliance.

Record Drawings: Contractor shall keep on the job one complete set of the contractor working drawings on which he shall record any deviations or changes from such drawings made during construction. Drawings shall also record location of concealed water and electric service, water piping, sewers, wastes, vents, ducts, conduit and other piping, by indication of measured dimensions to each such line from readily identifiable and accessible walls or corners of the building. Drawings also shall show invert elevation of sewers and top of water lines. Upon completion of work, Contractor shall obtain transparencies from Architect, at cost, and incorporate changes as noted on record set, including dimensions, and location and depth of bury of underground lines. Contractor shall sign and deliver transparencies with one set of prints to Architect. Corrections on transparencies shall be made by a professional draftsperson. Items superseded during construction shall be removed and only as-built conditions shall remain on transparencies.

1.06 Inter-Trade Coordination: Mechanical Contractor shall schedule and hold a coordination meeting at the beginning of the project. As a minimum, Mechanical, Electrical, Plumbing and Fire Protection sub contractors shall be present. Architect and Mechanical Engineer shall be notified of the meeting schedule. Minutes of the meeting shall be recorded by the Mechanical Contractor and forwarded to the Architect for review.

PART 2 - PRODUCTS

2.01 Not Applicable

PART 3 - EXECUTION

3.01 Inspections: Arrange with Architect/Owner and enforcing Governmental authorities for required permits and inspections. Furnish Architect with completed certificates of inspection and approval at completion. Call for inspections when they become due. Do not cover any work until accepted.

3.02 Damage to Other Work: Contractor shall be held responsible for damage caused by his work or through neglect of his workmen. Contractor shall do repairing of damaged work as directed by Architect; Contractor shall pay cost of repairs.

3.03 Supports

A. Supports for ductwork, pipe, conduit, ceiling grid system, etc., shall not interfere with access to valves, etc.

B. Install equipment, ductwork and piping so that noise and vibration will not be transmitted throughout building.

3.04 Hoists, Rigging, Transportation and Scaffolding: Provide scaffolding, staging, cribbing, tackle, hoists and rigging necessary for placing materials and equipment. Temporary work shall be removed from premises when its use in no longer required on job. Scaffolding and hoisting equipment shall comply with requirements of Federal, State and Local laws and codes.

3.05 Equipment Ingress: Contractor is solely responsible for purchasing equipment and materials in such knock-down condition that they will pass through building openings or such openings as may occur incidentally during building construction. Coordinate this effort with General Contractor.

3.06 Accessibility: Install work so as to be readily accessible for operation, maintenance and repair; minor deviations from drawings may be made to accomplish this. Changes shall not be made without approval of the Architect. Coordinate with other contractor's for location of piping, ductwork and equipment.

3.07 Protection of Building, Openings and Materials:

A. In addition to the provisions and stipulations in the General Conditions, provide various types of protection as follows:

1. Protect finished floors from chips and cutting oil by the use of metal chip receiving pan and a floor cover.
2. Protect equipment and finished surfaces from welding and cutting splatters with baffles and splatter blankets and finished surfaces from paint droppings, insulation adhesive and sizing droppings, etc., by use of drop cloths.

B. Duct, pipe and construction openings and excavations required for mechanical work shall be covered when work is not in progress, as follows:

1. Cover duct openings with canvas or plastic.
2. Cap pipe openings with fittings or plugs.
3. Cover wall and ceiling openings with plywood, or canvas covered framing.
4. Cover floor openings and excavations with structural material of adequate strength to support traffic.
5. Provide guards and rails at pits and openings as required by governing authority.

3.08 Excavation and Backfilling

A. Unless otherwise specified, provide for excavation and backfilling. Determine lines and levels and provide necessary shoring, excavation, drainage, excavation protection. Bell holes shall be dug to ensure pipe resting for its entire length on bottom of trench.

B. Where pipe is being installed in filled areas, "structural fill" must be firmly compacted, and backfilled with crushed stone to pipe laying level.

C. Backfilling for pipe with bell and spigot joints shall be as follows: Pipe shall be added in compacted granular material placed on flat trench bottom. Sand bedding shall have minimum thickness of one-fourth outside pipe diameter, and extend halfway up pipe barrel at sides. Remainder of side fills, and to depth of 12 inches over top of pipe, shall be filled with same material carefully compacted.

D. Fill shall be as approved by the Architect. Sand fill shall be provided from off site borrows. Excess excavated material shall be disposed of off site.

E. Where excavation is necessary in municipal property pavements, Contractor for whose work the excavation is required shall pay fees and costs for opening pavement and costs of filling and repaving in accordance with requirements of the municipality or utility company.

3.09 Testing: Test piping and equipment as specified under CPC, CMC or other sections. Furnish labor, materials, instruments, power, etc. required for testing, unless otherwise specified. Perform tests as required by parties having legal jurisdiction. Notify these parties a minimum of three days before testing. Damages resulting from tests shall be repaired, or damaged materials replaced, to satisfaction of the Architect and at no cost to Owner.

3.10 Field Supervision Equipment Start-up Service: Provide field installation, supervision and start-up service for heating system. Safety devices shall be tested, relieving pressures and tripping points shall be recorded in certifications.

3.11 Operating Instruction and Service Manual

A. Prepare two (2) diagrams of the entire control system, including a full description of operation and two (2) service manuals for the entire heating, ventilating and air conditioning system. The diagram shall be submitted for review at least thirty (30) days before completion of the work. Failure to submit diagram for review will delay final inspection and acceptance of the work.

B. Following items together with any other pertinent data shall be included. List is not necessarily complete and shall be considered minimum.

1. Manufacturer's name, nearest representative and model and serial numbers of component of system.
2. Operating instruction, start-up and shut down procedure.
3. Maintenance and lubrication instructions.
4. Parts list.
5. Manufacturer's literature describing each piece of equipment.
7. Part numbers of all replaceable items.
8. Control diagram and operation sequence together with labeling of control piping and instruments to match diagram.

C. The operating instructions and service manual shall be considered a part of the final inspection and shall be submitted for review at least 30 days in advance of request for final inspection.

END OF SECTION 15050

GENERAL MECHANICAL NOTES

1. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2013 CALIFORNIA MECHANICAL CODE, CALIFORNIA PLUMBING CODE, CALIFORNIA BUILDING CODE, NATIONAL FIRE PROTECTION CODES, AND ALL OTHER APPLICABLE CODES AND REGULATIONS, INCLUDING THE 2013 CALIFORNIA ENERGY CONSERVATION STANDARDS OF TITLE 24.
2. LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES ARE DETAILED ON THE ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM ELEVATIONS.
3. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
4. ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED, AND TESTED IN ACCORDANCE WITH THE APPLICABLE SMACNA STANDARDS.
5. DUCTWORK SHALL BE INSULATED WITH 2" FIBERGLASS INSULATION AND ALL SERVICE JACKET. PROVIDE 1" ACOUSTICAL LINER WHERE SHOWN ON PLANS. DUCT DIMENSIONS ON PLANS ARE NET CLEAR INTERIOR.
6. MANUAL DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES TO INDIVIDUAL DIFFUSERS, GRILLES AND REGISTERS.
7. ALL EQUIPMENT, DUCTS, PIPING, AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHERPROOFED.
8. PIPES AND DUCTWORK SHALL BE SUPPORTED AND BRACED PER SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS."
9. PROVIDE ROUGH-IN AND FINAL CONNECTIONS FOR EQUIPMENT PROVIDED UNDER OTHER DIVISIONS OF THE SPECIFICATIONS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF EQUIPMENT.
10. (1) PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED AND PROTECTED BY APPROVED METHODS AS PRESCRIBED IN CBC 714.1 & CBC 716.1.
11. REFER TO STRUCTURAL DRAWING FOR LOCATIONS OF BEAMS, SHEAR WALLS AND MEMBERS. ALL DRILLING OF STRUCTURAL BEAMS AND MEMBERS TO BE COORDINATED WITH THE STRUCTURAL ENGINEER. ALL HOLES SHALL BE MINIMUM SIZE AND APPROVED BY STRUCTURAL ENGINEER PRIOR TO DRILLING.
12. FIELD VERIFY LOCATION AND SIZE OF ALL EXISTING PIPING, DUCTWORK AND EQUIPMENT PRIOR TO FABRICATION OF ANY NEW WORK.
13. STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36. BOLTS SHALL CONFORM TO ASTM A-307. FABRICATION, ERECTION, WELDING AND PAINTING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS. ALL STEEL EXPOSED TO WEATHER SHALL BE GALVANIZED.
14. DUCTWORK VISIBLE THROUGH DIFFUSERS AND REGISTERS SHALL BE PAINTED FLAT BLACK.
15. INSULATION MATERIAL SHALL MEET THE STATE QUALITY STANDARD PER SECTION 118 CALIFORNIA ENERGY CODE (CEC).
16. DOORS AND WINDOWS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION 118 CEC.
17. ALL DUCTWORK SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF SECTION 118, 123, 124 CEC. AND TABLE E 503.7.1 (9)(10)(11) OF MECHANICAL CODE.
18. ALL HVAC SYSTEMS SHALL MEET THE CONTROL REQUIREMENTS PER SECTIONS 112 AND 122 CEC.
19. ALL HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIREMENTS OF SECTIONS 111-113, 115, AND 120-129 CEC.

SYMBOLS & ABBREVIATIONS (MECHANICAL)

Symbol	Description
BT	BYPASS TIMER
℄	CENTER LINE
—CD—	CONDENSATE DRAIN
Ø	DIAMETER
	EXHAUST, RETURN, SUPPLY AIR DUCT (EXISTING)
	EXHAUST, RETURN, SUPPLY AIR DUCT (NEW)
	EXTENT OF DEMOLITION
	EXHAUST DUCT UP, DOWN, PENE & DEMO
	FIRE/SMOKE DAMPER
	FIRE DAMPER
	POINT OF CONNECTION
	P/T PLUG
	RETURN OR EXHAUST AIR
	RETURN DUCT UP, DOWN, PENE & DEMO
$	SPEED CONTROL SWITCH
X	SPIN-IN EXTRACTOR/DAMPER
	SUPPLY DUCT UP, DOWN, PENE & DEMO
	SUPPLY OR OUTSIDE AIR
T	THERMOSTAT at + 48"
—X—X—X—	TO BE REMOVED
	TRANSFER AIR
	TURNING VANES
	VOLUME DAMPER

Abbreviation	Meaning
AD	ACCESS DOOR
AFF	ABOVE FINISH FLOOR
AL	ACOUSTICALLY LINED
AP	ACCESS PANEL
BD	BALANCING DAMPER
BDD	BACKDRAFT DAMPER
BHP	BRAKE HORSE POWER
BJ	BETWEEN JOIST
BTU	BRITISH THERMAL UNIT
C.	CONDUIT
CA	COMBUSTION AIR
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
DEMO	DEMOLITION
DL	DOOR LOUVER
(E)	EXISTING
EAD	EXHAUST AIR DUCT
EC	ELECTRICAL CONTRACTOR
EDB	ENTERING DRY BULB
EOD	EXTENT OF DEMOLITION
ETR	EXISTING TO REMAIN
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
°F	DEGREES FAHRENHEIT
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FSD	FIRE SMOKE DAMPER
FT.HD.	FEET HEAD
FTR	FLUE THRU ROOF
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HP	HORSE POWER
KW	KILOWATTS
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MBH	1,000 BTU/HR
MC	MECHANICAL CONTRACTOR
(N)	NEW
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OBD	OPPOSED BLADE DAMPER
OSA	OUTSIDE AIR
PC	PLUMBING CONTRACTOR
PENE	PENETRATION
PD	PRESSURE DROP
PH	PHASE
POC	POINT OF CONNECTION
P/N	PART NUMBER
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
P/T	PRESSURE / TEMPERATURE
RA	RETURN AIR
RAD	RETURN AIR DUCT
(RL)	RELOCATE
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SAD	SUPPLY AIR DUCT
SD	SUPPLY DIFFUSER
SP	STATIC PRESSURE
SS	STAINLESS STEEL
STD	STANDARD
TV	TURNING VANES
TYP	TYPICAL
UCD	UNDERCUT DOOR
UON	UNLESS OTHERWISE NOTED
V	VOLT
VD	VOLUME DAMPER
VIF	VERIFY IN FIELD
W/	WITH
WC	WATER COLUMN
WT	WEIGHT
W/O	WITH OUT

(1)

SECTION 15600 - HVAC SYSTEM

PART 1 - GENERAL

1.01 Not used.

PART 2 - PRODUCTS

2.01 Hot Water Heating Pipe and Fittings: Heating water pipe shall be Type L copper, ASTM B-88, hard drawn temper, ANSI B16.22, wrought copper fittings, 95/5 soldered joints. Copper tube and fittings be installed per ASTM B828-92. Flux will meet ASTM B813.

2.02 Valves (125 PSIG Max.): All ballvalves for use with piping 2" and smaller shall be screwed.

2.03 Thermal Insulation: Foamed plastic insulation. Armstrong "Accotherm" and "Armaflex II" provided materials meets required flame spread and smoke developed ratings.

PART 3 - EXECUTION

3.01 Equipment shall be installed in accordance with manufacturer's recommendations.

3.02 Test and Balance: Testing shall be done by an independent contractor who specializes in testing and balancing air handling and hydronic systems, in accordance with AABC or NEBB standards. Upon completion of tests, Contractor shall compile the test information, and submit (4) copies of such to Mechanical Contractor to forward to Engineer for evaluation. The report shall include a summary sheet which shall record devices, equipment and systems that cannot be adjusted to design requirements. The record shall include the extent of the variations from design conditions and the balance engineer's opinion as to cause of the variation.

END OF SECTION 15600

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
FEB 05 2015
Office of Statewide Health Planning & Development
FACILITIES DEVELOPMENT DIVISION

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TITLE SHEET – MECHANICAL

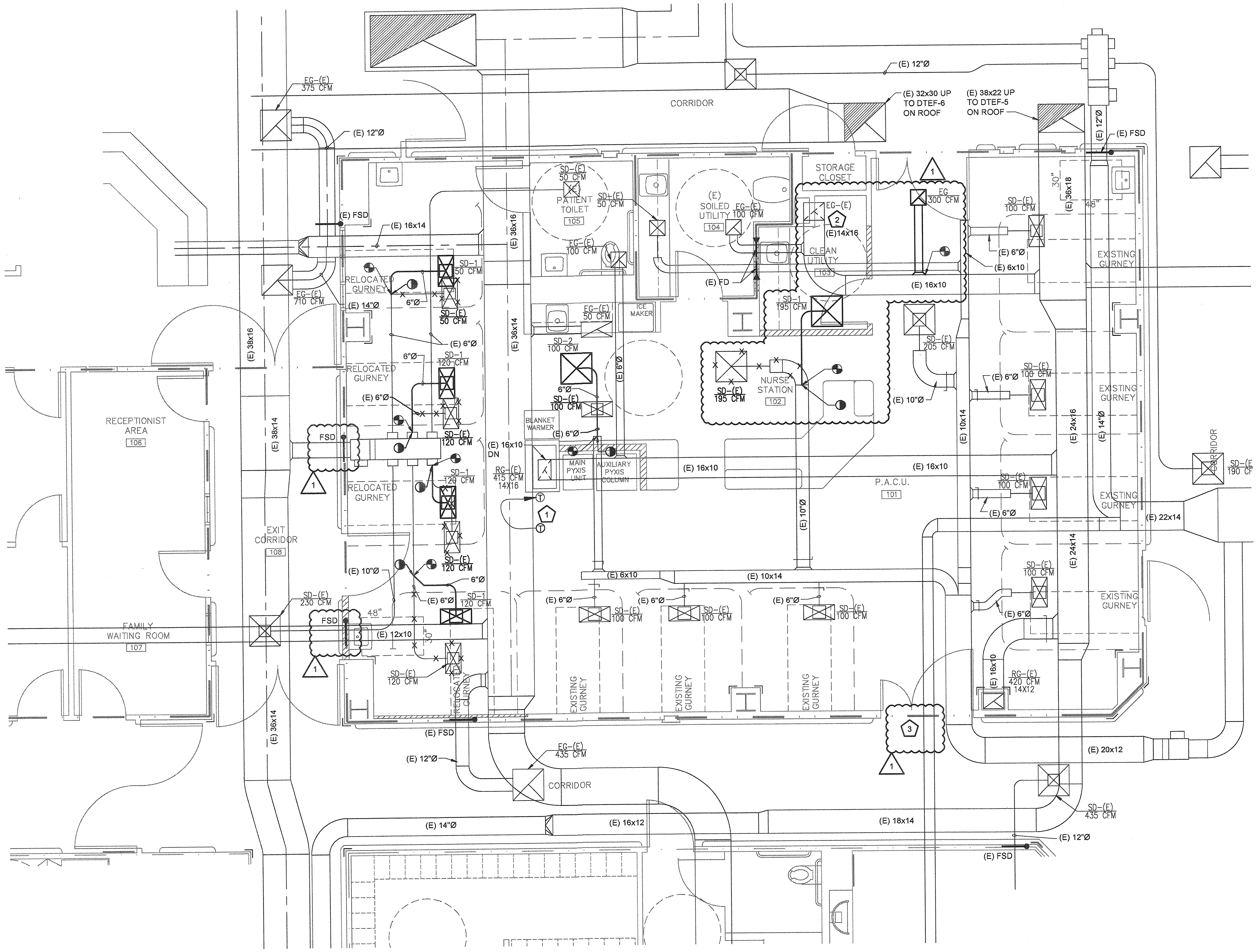
2nd FLOOR POST-OP RECOVERY EXPANSION

SAN MATEO MEDICAL CENTER

222 West 39th Avenue San Mateo, California 94403

PROJECT NUMBER 12941

Date: 01-15-14
Scale: AS NOTED
Sheet No.
M0.1
of:



1 M2.1 FLOOR PLAN - DEMO & NEW - MECHANICAL
SCALE: 1/4"=1'-0"

NORTH

0 1 2 4 8
SCALE: 1/4" = 1'-0"

SHEET NOTES

1. RELOCATE (E) THERMOSTAT.
2. REBALANCE GRILLE TO EXHAUST 120 CFM.
3. CONTRACTOR TO VERIFY IF PENETRATION CURRENTLY PROTECTED. PROVIDE (N) FSD IF NOT.

WALL LEGEND:

- EXISTING WALL
- NEW WALL CONSTRUCTION
- (E) 1 HR. RATED WALL (SLAB TO SLAB TO ROOF) FUNCTIONING AS A SMOKE ZONE BOUNDRY WALL.
- (N) 1 HR. RATED FIRE PARTITION W/ 20 MIN. DOORS. AS PER UL DESIGN U465 OR TABLE 721 13-1.3 OF 2013 CBC.

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
FEB 25 2015
Office of Statewide Health Planning & Development
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FLOOR PLAN-NEW-MECHANICAL
2nd FLOOR POST-OP RECOVERY EXPANSION
SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, California 94403

PROJECT NUMBER 12941

Date: 01-15-14
Scale: AS NOTED
Sheet No. M2.1

PLUMBING FIXTURE SCHEDULE

CODE	DESCRIPTION	ACCESSIBLE	MOUNTING TYPE: FLOOR	MOUNTING TYPE: COUNTER TOP	MOUNTING TYPE: WALL	FAUCET CONTROLS: WRIST BLADES	FAUCET CONTROLS: INFRED SENSOR	GOOSENECK SPOUT	TRAP PRIMER	MIN. ROUGH-IN CONN (IN): W	MIN. ROUGH-IN CONN (IN): V	MIN. ROUGH-IN CONN (IN): CW	MIN. ROUGH-IN CONN (IN): HW	FIXTURE UNITS: SAN.	FIXTURE UNITS: CW	FIXTURE UNITS: HW	LOCATION	REMARKS
SK-1	SINK	ADA	–	•	–	–	•	–	–	2	11/2	1/2	1/2	–	–	–	MULTIPLE	1
L-1	LAVATORY	ADA	–	–	•	–	•	–	–	2	11/2	1/2	1/2	–	–	–	MULTIPLE	2

NOTES:
1. ELKAY LRAD1517, SINGLE HOLE, 5-1/2" DEEP. CHICAGO FAUCETS MODEL #116.103.AD.1 - 0.5GPM. INSULATED P-TRAP.
2. AM. STD LUCERNE WALL MOUNTED. SINGLE HOLE. CHICAGO FAUCETS MODEL #116.103.AD.1 - 0.5 GPM. INSULATED P-TRAP

GENERAL PLUMBING NOTES

1. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2013 CALIFORNIA PLUMBING CODE AND ALL OTHER APPLICABLE CODES AND REGULATIONS, INCLUDING THE 2013 CALIFORNIA ENERGY CONSERVATION STANDARDS OF TITLE 24. (1)
2. LOCATION OF ALL ROOF OPENINGS AND THE LOCATION OF ALL ROOF MOUNTED EQUIPMENT SUPPORTS ARE DETAILED ON THE STRUCTURAL AND ARCHITECTURAL PLANS.
3. PLATFORMS, CURBS AND FLASHING FOR EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS. COORDINATE THE EXACT SIZES OF REQUIRED OPENINGS AND SUPPORT FOR THE FURNISHED EQUIPMENT.
4. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
5. ALL EQUIPMENT, PIPING, AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHERPROOFED.
6. PIPES SHALL BE SUPPORTED AND BRACED PER SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS."
7. COORDINATE PLUMBING SYSTEMS WITH WORK OF OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
8. EXPOSED PIPING ALLOWED ONLY WHERE INDICATED. PROVIDE ESCUTCHEONS IN FINISHED AREAS.
9. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL PLUMBING EQUIPMENT.
10. PROVIDE ROUGH-IN AND FINAL CONNECTIONS FOR EQUIPMENT PROVIDED UNDER OTHER DIVISIONS OF THE SPECIFICATIONS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF EQUIPMENT.
11. (2) PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED BY AN APPROVED MATERIAL AS PRESCRIBED IN CBC SECTION 714.
12. REFER TO STRUCTURAL DRAWING FOR LOCATIONS OF BEAMS, SHEAR WALLS AND MEMBERS. ALL DRILLING OF STRUCTURAL BEAMS AND MEMBERS TO BE COORDINATED WITH THE STRUCTURAL ENGINEER. ALL HOLES SHALL BE MINIMUM SIZE AND APPROVED BY STRUCTURAL ENGINEER PRIOR TO DRILLING.
13. FIELD VERIFY LOCATION AND SIZE OF ALL EXISTING PIPING, DUCTWORK AND EQUIPMENT PRIOR TO FABRICATION OF ANY NEW WORK.
14. ALL WATER CLOSETS CONTROLS SHALL BE ON THE SIDE OF THE FIXTURE AWAY FROM THE WALL.
15. ALL FAUCET CONTROLS SHALL BE OPERABLE WITH THE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.

SYMBOLS & ABBREVIATIONS (PLUMBING)

Symbol	Description
	BALANCING COCK
	BALL VALVE
	CAP
	CHECK VALVE
	CLEANOUT
A	COMPRESSED AIR PIPING (E)
D	DEIONIZED WATER (EXISTING)
	DOMESTIC COLD WATER (EXISTING)
	DOMESTIC COLD WATER (NEW)
	DOMESTIC HOT WATER (EXISTING)
	DOMESTIC HOT WATER (NEW)
	DOMESTIC HOT WATER RETURN (EXISTING)
	DOMESTIC HOT WATER RETURN (NEW)
	DIRECTION OF FLOW
DSP	DRY STANDPIPE
FL	FIRE SPRINKLER PIPING
	FLANGED UNION
	FLOOR DRAIN
	FLOOR SINK
FM	FORCE MAIN
G	GAS PIPING (EXISTING)
G	GAS PIPING (NEW)
	GAS COCK
	GATE VALVE
	GLOBE VALVE
HPG	HIGH PRESSURE GAS PIPING
	HOSE BIBB (3/4" MIN.)
LPG	LIQUID PETROLEUM GAS PIPING (EXISTING)
LPG	LIQUID PETROLEUM GAS PIPING (NEW)
O2	OXYGEN PIPING (EXISTING)
O2	OXYGEN PIPING (NEW)
	PETES PLUG
	PIPE (ABOVE THE CEILING)
	PIPE HANGER
	PIPE TURNING UP (RISE)
	PIPE TURNING DOWN (DROP)
	PIPE TEE DOWN
	PRESSURE REDUCING VALVE
	T & PRV RELIEF VALVE
	POINT OF CONNECTION TO EXISTING
RWL	RAIN WATER LEADER (EXISTING)
RWL	RAIN WATER LEADER
	REDUCER
	ROOF DRAIN
SD	STORM DRAIN (EXISTING)
SD	STORM DRAIN (NEW)
	STRAINER
	SUB-SOIL PIPING
	UNION
VAC	VACUUM PIPING (EXISTING)
VAC	VACUUM PIPING (NEW)
	VENT PIPING (EXISTING)
	VENT PIPING (NEW)
AV	ACID VENT
	WASTE PIPING (EXISTING)
	(N) WASTE PIPING (NEW)
W	WASTE PIPING - UNDERGROUND (NEW)
AW	ACID WASTE
GW	GREASE WASTE (EXISTING)
GW	GREASE WASTE (NEW)
WSP	WET STANDPIPE (EXISTING)
WSP	WET STANDPIPE (NEW)
	WATERHAMMER ARRESTOR (WHA)
	TRAP PRIMER (TP)

Abbreviation	Meaning
AFCO	ACID FLOOR CLEANOUT
AFD	ACID RESISTANT FLOOR DRAIN
AFF	ABOVE FINISH FLOOR
AGCO	ACID GRADE CLEANOUT
AP	ACCESS PANEL
AV	ACID VENT
AVTR	ACID VENT THRU ROOF
AW	ACID WASTE
AWCO	ACID WALL CLEANOUT
BV	BALL VALVE
CB	CATCH BASIN
CD	CONDENSATE
CFH	CUBIC FEET PER HOUR
CI	CAST IRON
CP	CHROME PLATED
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DCV	DETECTOR CHECK VALVE
DN	DOWN
DS	DOWN SPOUT
DSP	DRY STAND PIPE
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
(F)	FIRE SPRINKLER PIPING
FC	FLEX CONNECTOR
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FL	FIRE LINE
FM	FORCE MAIN
FS	FLOOR SINK
FSC	FIRE SPRINKLER CONTRACTOR
GC	GENERAL CONTRACTOR
GCO	GROUND CLEANOUT
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
HB	HOSE BIBB
HPG	HIGH PRESSURE GAS
HWS	HOT WATER SUPPLY
IE:	INVERT ELEVATION
LAV	LAVATORY
LPG	LOW PRESSURE GAS
MA	MEDICAL AIR
MC	MECHANICAL CONTRACTOR
MV	MEDICAL VACUUM
NPW	NON POTABLE WATER
(N)	NEW
OFD	OVERFLOW DRAIN
OX	OXYGEN
PC	PLUMBING CONTRACTOR
PIV	POST INDICATION VALVE
POC	POINT OF CONNECTION
POD	POINT OF DEMOLITION
PP	PETES PLUG
PRV	PRESSURE REDUCING VALVE
PVC	POLYVINYL CHLORIDE PIPE
RD	ROOF DRAIN
RPBFP	BACKFLOW PREVENTOR REDUCED PRESSURE
RWL	RAIN WATER LEADER
SD	STORM DRAIN
SDCW	SOFT DOMESTIC COLD WATER
SDHW	SOFT DOMESTIC HOT WATER
SOV	SHUTOFF VALVE
SS	SANITARY SEWER
TP	TRAP PRIMER
V	VENT
VB	VALVE BOX
VIF	VERIFY IN FIELD
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER
WHA	WATER HAMMER ARRESTOR
WM	WATER METER

SECTION 15400 - PLUMBING SYSTEM

PART 1 - GENERAL

1.01 Not used.

PART 2 - PRODUCTS

2.01 Pipe and Fittings

A. Interior Water Piping: Copper, Type L copper, ASTM B-88, hard drawn temper, ANSI B16.22, wrought copper fittings, lead-free soldered joints. Copper tube and fittings be installed per ASTM B828-92. Flux will meet ASTM B813. Using excess or corrosive flux will lead to early pipe failure. Pipe and fittings shall be California AB 1953 compliant.

B. Exterior Water Piping 2-1/2" and Smaller: Copper tube type K soft-annealed temper, wrought-copper fittings; lead free soldered joints. Copper tube and fittings be installed per ASTM B828-92. Flux will meet ASTM B813. Using excess or corrosive flux will lead to early pipe failure. Pipe and fittings shall be California AB 1953 compliant.

C. Waste, Storm and Vent Piping: Waste and storm pipe and fittings shall conform to the requirements of CISPI Standard 301, ASTM A888 or ASTM A74 for pipe and fittings. Pipe and fittings shall be marked with the collective trademark of the Cast Iron Soil Pipe Institute. Cast-iron hubless soil pipe: Service weight; cast-iron hubless soil pipe fittings; hubless joints. Vent piping shall be galvanized steel pipe: Schedule 40; Class 125 galvanized cast-iron, drainage pattern fittings for vents only. Screwed or mechanical grooved type fittings. Star, Tyler, AB&I, Charlotte or approved equal. Install per manufactures recommendations.

2.02 Dielectric Unions: Use in all connections between copper tube and galvanized pipe, steel or cast iron equipment or items of dissimilar metals.

2.03 Valves

A. Ball Valves: Full port, 400 PSI W.O.G., -40 to 180 degrees F, all brass, Teflon seat and o-ring seal, similar to Stockham Fig. No. S214, or Milwaukee No. BA-300.

B. Check Valve 2-1/2" and Smaller: 125 pound SWP, W.O.G., horizontal swing, regrinding type, Y-pattern, renewable disc, Buna-N seat disc, bronze construction per ASTM B-26, FS WW-V-51D Class A Type IV. Similar to Stockham Fig. No. B-310, or Milwaukee No. 509(T).

C. All valves shall be California AB 1953 compliant.

2.4 Cleanouts: All waste piping shall have cleanouts at foot of stacks, at building entry, at every change in the direction of run, at intervals of not more than 50'-0" in straight runs inside building walls and as required by code. All outlets shall be accessible so that drain line may be readily cleaned with a snake or other rodding tool. All cleanouts shall be of the same diameter as the pipe, up to 4" maximum.

2.5 Specialties

A. Water Hammer Arrestors: At each single plumbing fixture or at each group of fixtures piped from the same runout, provide and install manufactured water hammer arrestors; Zurn "Shoktrol" or similar product by Wade, Josam or Smith. Pipe extensions with trapped air are not acceptable.

B. Trap Primer: Precision Plumbing Products figure PR-500 with DU-X distribution unit. Install per manufacturer's requirements.

C. All products shall be California AB 1953 compliant.

2.6 Fixtures: per schedule.

2.7 Pipe Insulation: 1" thick fiber glass insulation K=.23 (R=4.35) at 75 degrees F, with all service jacket on all domestic hot water and recirculating piping. Insulation shall be continuous thru pipe supports. Provide insulation shields.

PART 3 - EXECUTION

3.1 Flushing and Sterilization: Potable water systems shall be thoroughly flushed and disinfected before being put into service per methods in CPC 609.9 publication, "A Procedure for Disinfecting Water Mains", or as required by governing code. (1)

3.2 Provide and adjust DHWR circuit setters to establish described flow in each DHWR branch.

END OF SECTION 15400

(1)

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
FEB 25 2015
Office of Statewide Health Planning & Development
FACILITIES DEVELOPMENT DIVISION

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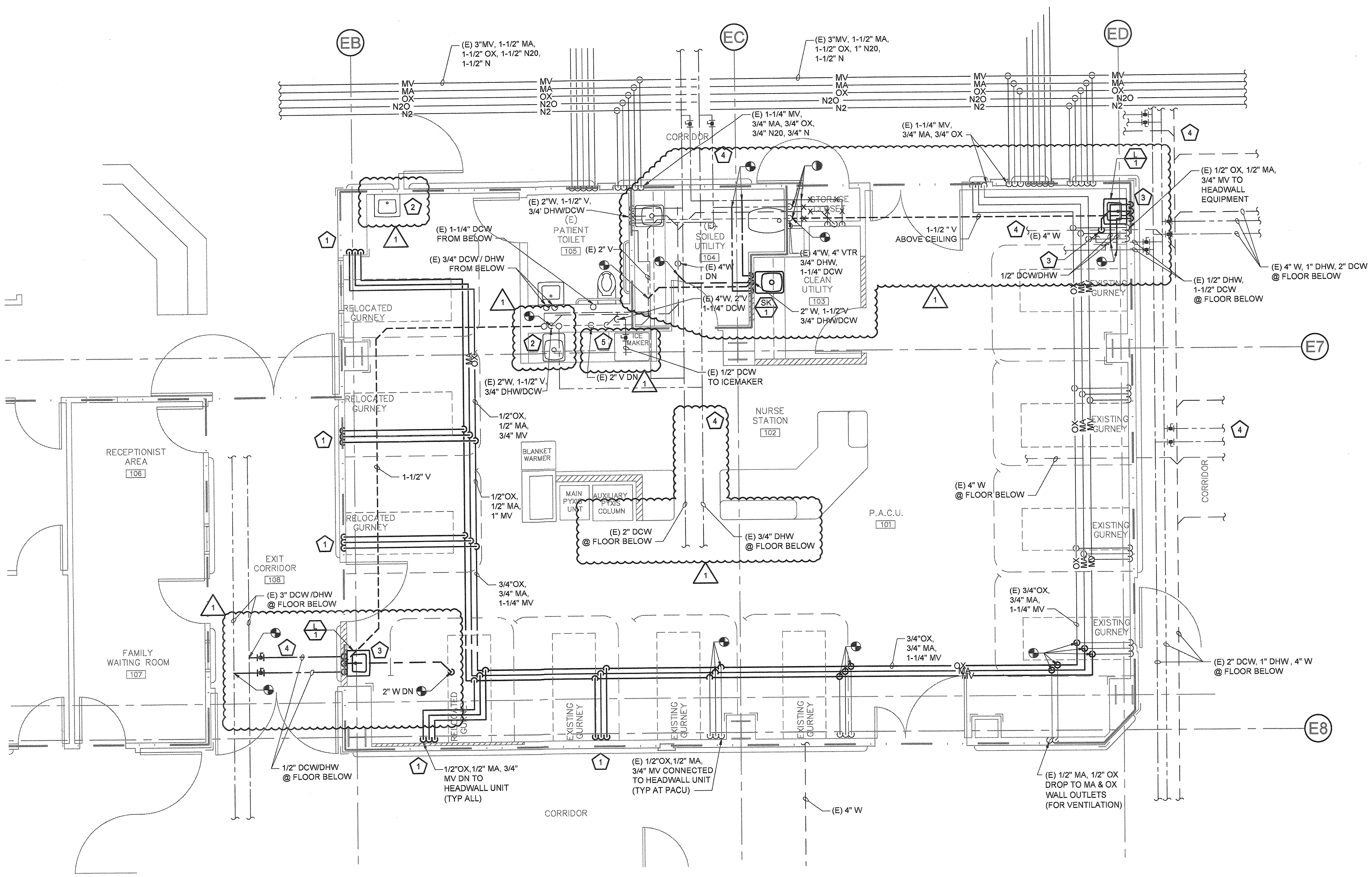
TITLE SHEET – PLUMBING

2nd FLOOR POST-OP RECOVERY EXPANSION
SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, California 94403

PROJECT NUMBER 12941

Date: 01-15-14
Scale: AS NOTED
Sheet No. P0.1
of:



1 P2.1 FLOOR PLAN - DEMO & NEW - PLUMBING
SCALE: 1/4"=1'-0"

NORTH

0 1 2 4 8
SCALE: 1/4" = 1'-0"

SHEET NOTES

1. HEADWALL STATIONS TO MATCH (E). VERIFY THE (N) HEADWALLS HAVE A MINIMUM OF (1) CX, (3) VAC AND (1) MA OUTLETS PER CBC TABLE 1224.4.6.1. PROVIDE CODE COMPLIANT HEADWALLS IF NOT.
2. CONNECT (N) 2" W TO (E) WASTE IN FLOOR BELOW @ PLUMBING WALL.
4. ALL DCW / DHW / W PIPING AT FLOOR BELOW.
5. VERIFY ICE MAKER DRAINS THROUGH APPROVED AIR GAP OR PROVIDE (N) INDIRECT WASTE.

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
FEB 25 2015
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Revisions:
PC COMMENTS 10-01-14 △1
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FLOOR PLAN-NEW-PLUMBING
2nd FLOOR POST-OP RECOVERY EXPANSION
SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, California 94403

PROJECT NUMBER	12941
Date:	01-15-14
Scale:	AS NOTED
Sheet No.	P2.1

SECTION 15300 - FIRE PROTECTION

PART 1 - GENERAL

1.01 Scope of Work

A. Thoroughly review architectural, structural and mechanical plans to identify all interference's and concealed spaces.

B. Provide labor, material and equipment to design, furnish, and install the fire protection system required by contract documents. Design shall include site requirements.

C. Provide testing of completed system as required for regulatory approvals.

D. Contractor shall be State Fire Marshal licensed.

E. Sprinkler head locations indicated on Architect's reflected ceiling plans are shown for aesthetic purposes only. Contractor shall provide all heads required by NFPA 13 and conform with Architect's layout to the fullest extent possible. Architect shall have opportunity to review and relocate sprinkler heads without increasing contract costs. (1)

1.03 Submittals

A. Provide manufacturers shop drawings of sprinkler heads and all other purchased components. Submit dimensioned drawings and hydraulic calculations to the Santa Cruz Fire Department for approval. Submit approved copies to the Architect in accordance with requirements of Division 1.

PART 2 - PRODUCTS

2.01 Piping and Fittings, Underground:

A. Piping and fittings, underground: Johns-Manville PVC "Blue Brute" pipe, class 200 meeting all requirements of AWWA C900.

B. Fittings: Cast iron pressure fittings and Ring-Tite bells conforming to AWWA Standard C110-64. U.S. Pipe and Foundry, Birmingham, Ala.: Trinity Valley, Ft. Worth, Texas; Lylon Joint Class D. ASA A 21.20.

2.02 Pipe and Fittings, Above ground:

A. Piping shall be Black steel ASTM A-53 schedule 40, ASTM A-135 Schedule 10, or seamless hard temper copper, ASTM B-88 Type M where appropriate.

B. Fittings for steel pipe may be groove, gasket and clamp as manufactured by Victaulic or Sprink, Inc., threaded or flanged cast iron for 175 PSI water working pressure or welded, provided the welding is performed by ASME (Boiler Code-Section IX) qualification welders. Plain end fittings are not acceptable. Copper fittings shall be wrought, solder end, joined with BCUP-3 or 4 brazing filler similar to Handy-Harmon Sil-Fos 5 or 95-5 solder.

C. Hangers and supports and their installation shall be according to NFPA 13.

D. Valves shall be iron body, bronze fitted, 175-PSI water working pressure, U.L. listed.
   1. Main drain valve, angle type, United No. 126S.
   2. Inspect or test valve, globe type, United No. 125S.

2.03 Sprinkler Heads

SECTION 15300 - FIRE PROTECTION

A. Sprinkler heads in areas where piping is exposed shall be upright or pendent to match (E) heads. (1)

B. Sprinklers in finished ceiling areas shall be flush mounted with trim ring, color by architect, Tyco LFII.

C. Sprinkler heads in residential areas shall be specifically listed for residential occupancy.

D. Sprinkler heads in areas exposed to weather to be corrosion resistant type head, teflon-based corrosion resistant coating.

E. All sprinkler heads shall be non-color coded (ordinary rating), U.L. listed and F.M. approved. Other manufacturers' products, if equal in all respects, will be accepted.

2.04 Detector Check Valve

A. U.L. and F.M. listed, rubber faced clapper, flanged or mechanical joint ends, 175 PSI water working pressure with bypass meter trim package.

B. Stockham, Grinnell, Mueller or equal.

PART 3 - EXECUTION

3.01 Workmanship: experienced sprinkler fitters shall install the work. Make up head connections with double swing joints in finished ceiling areas. Provide auxiliary drains where interference's make it impossible to drain mains otherwise.

3.02 Coordination: Carefully coordinate piping and head location with other piping, lights, ductwork, diffusers and ceiling grid. Provide offsets where required to maintain uniform ceiling pattern.

3.03 The automatic sprinkler system shall be installed according to NFPA 13. (1) The entire installation shall meet the requirements of the State Fire Marshal and insurance carrier. At completion of the project, Contractor shall operate all control valves and all alarms and devices, clean and lubricate control and alarm valves. Instruct Owner in proper care, operation and maintenance of the system and provide with two copies of NFPA 13 (1) on care and maintenance of sprinkler systems, and maintenance and parts lists for all equipment installed in accordance with requirements of Division 1.

3.04 Inspection and Testing

A. Thoroughly flush fire protection piping to remove dirt, scale or any other debris that could interfere with sprinkler operation.

B. Test the entire system under normal system operating pressure for two hours. If leaks are encountered, repair them and retest until system is right.

C. Arrange for flow and alarm test at a time convenient for interested regulatory personnel and Engineer to witness. Provide certification for success of testing and submit two copies in accordance with requirements of Division 1.

D. Coordinate with Plumbing Trade for combined test. See Plumbing Specification 15400 for details.

END OF SECTION 15300

SYMBOLS & ABBREVIATIONS (FIRE PROTECTION)

Symbol	Description
	ALARM BELL
@	AT
	BUTTERFLY VALVE
	CHECK VALVE
	DETECTOR CHECK VALVE
—D—	DRAIN PIPE
	FIRE HYDRANT (2 HOSE OUTLET)
	FIRE HYDRANT (2 HOSE OUTLET AND PUMPER CONNECTION
	(E) FIRE SPRINKLER PIPING
	(N) FIRE SPRINKLER PIPING
	FIRE SPRINKLER PIPING - UNDERGROUND (UG)
	FIRE SPRINKLER RISER
	FLOW DETECTOR SWITCH
	TWO WAY SEISMIC RESTRAINT
	FOUR WAY SEISMIC RESTRAINT
	GATE VALVE
	MAIN TAP
	O S AND Y VALVE
	POST INDICATING VALVE
	CONNECTION (FREE STANDING) SIAMESE FIRE DEPARTMENT
	CONNECTION (WALL TYPE) SIAMESE FIRE DEPARTMENT
	SPRINKLER HEAD: FLUSH
	SPRINKLER HEAD: PENDENT
	SPRINKLER HEAD: SIDEWALL
	SPRINKLER HEAD: UPRIGHT
	VALVE BOX
	VALVE WITH TAMPER DETECTOR/SWITCH
	WATER TOWER/TANK ABOVE-GROUND HORIZONTAL
	WATER TOWER/TANK ABOVE-GROUND VERTICAL
	'U' HOOK
	WRAP AROUND 'U' HOOK
	SIDE BEAM BRACKET ROD
	COACH SCREW ROD

Abbreviation	Meaning
AC	ASBESTOS CEMENT
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
BFV	BUTTERFLY VALVE
CI	CAST IRON
CLG	CEILING
CONC.	CONCRETE
CV	CHECK VALVE
DCV	DETECTOR CHECK VALVE
DN	DOWN
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EQB	EARTHQUAKE BRACE
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT
FS	FIRE SPRINKLER
FSC	FIRE SPRINKLER CONTRACTOR
GPM	GALLONS PER MINUTE
HV	HOSE VALVE
MJ	MECHANICAL JOINT
(N)	NEW
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PIV	POST INDICATION VALVE
OS&Y	OUTSIDE SCREW AND YOKE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
REQ'D	REQUIRED
SHT. MTL.	SHEET METAL
SQ. FT.	SQUARE FEET
ST	STEEL
TYP	TYPICAL
W/	WITH
WSP	WET STANDPIPE

GENERAL FIRE PROTECTION NOTES

1. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2013 CALIFORNIA MECHANICAL PLUMBING, BUILDING AND FIRE CODES, NATIONAL FIRE PROTECTION CODES, AND ALL OTHER APPLICABLE CODES AND REGULATIONS, INCLUDING THE 2013 CALIFORNIA ENERGY CONSERVATION STANDARDS OF TITLE 24. (1)
2. REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS AND LOCATIONS OF CONCEALED SPACES, AND OTHER ARCHITECTURAL FEATURES THAT REQUIRE FIRE SPRINKLERS AS PER NFPA #13, 2013 EDITION. (1)
3. REFER TO ELECTRICAL DRAWINGS FOR TYPE AND LOCATION OF LIGHT FIXTURES.
4. REFER TO THE MECHANICAL DRAWINGS FOR DUCTWORK AND GRILLE LOCATIONS.
5. REFER TO STRUCTURAL DRAWING FOR LOCATIONS OF BEAMS, SHEAR WALLS AND MEMBERS. ALL DRILLING OF STRUCTURAL BEAMS AND MEMBERS TO BE COORDINATED WITH THE STRUCTURAL ENGINEER. ALL HOLES SHALL BE MINIMUM SIZE AND APPROVED BY STRUCTURAL ENGINEER PRIOR TO DRILLING.
6. ESCUTCHEONS IN FINISHED AREAS.
7. DESIGN AND INSTALLATION SHALL CONFORM WITH NFPA PAMPHLETS.
8. ALL MATERIALS AND DEVICES TO BE UL LISTED.
9. SPRINKLER CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CATALOG DATA FOR ALL UL AND FM APPROVED COMPONENTS AND DEVICES TO OSHPD OFFICE FOR APPROVAL AND OBTAIN PERMITS PRIOR TO INSTALLATION. (1)
10. SPRINKLER CONTRACTOR SHALL SUBMIT SPRINKLER HEAD LAYOUT ON ARCHITECTURAL REFLECTED CEILING PLANS FOR ARCHITECTURAL APPROVAL PRIOR TO ANY PIPING DESIGN AND/OR CALCULATIONS.

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
FEB 05 2015
Office of Statewide Health Planning & Development
FACILITIES DEVELOPMENT DIVISION

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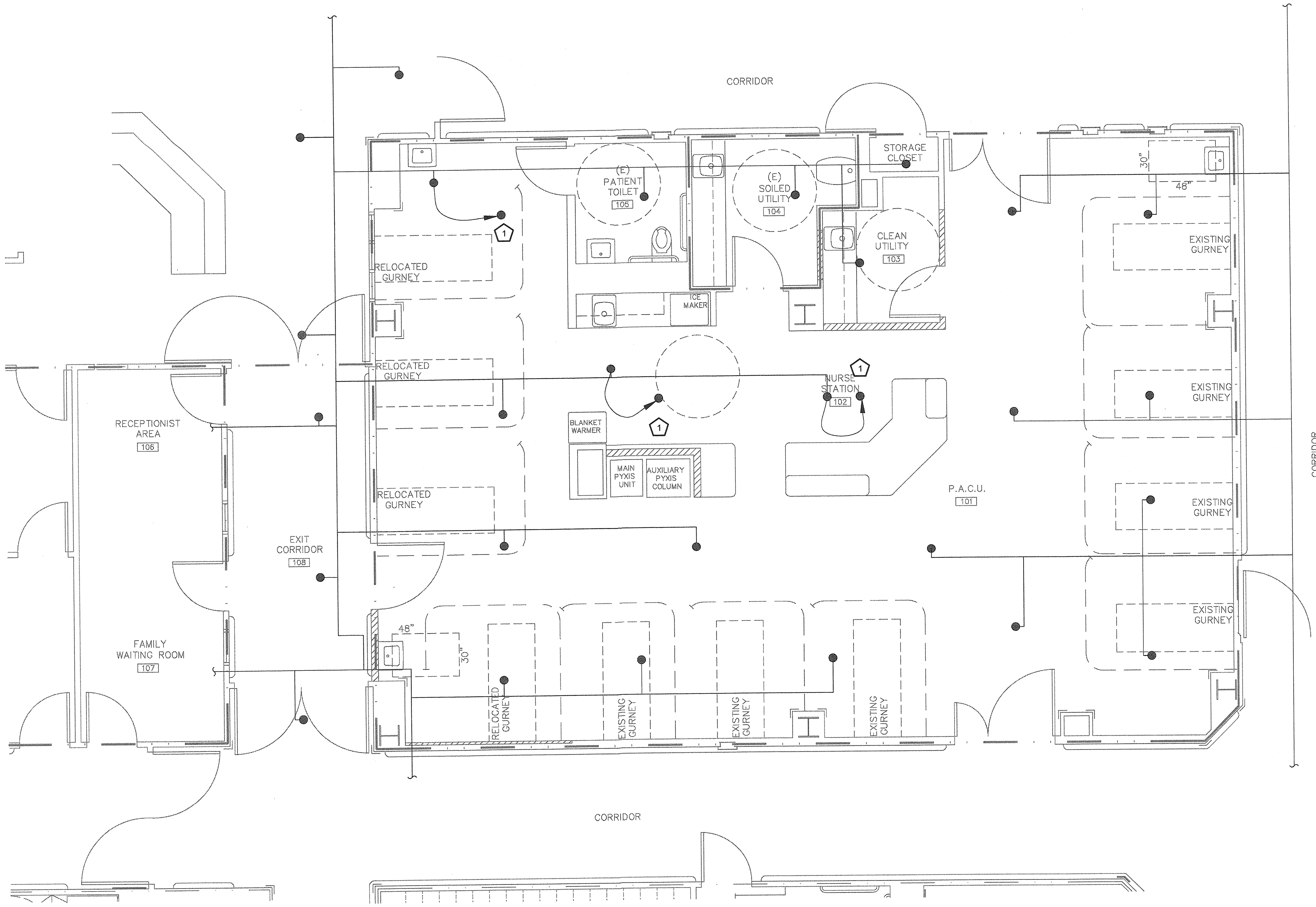
Revisions:
PC COMMENTS 10-01-14 (1)
S140671-41

TITLE SHEET – FIRE PROTECTION

2nd FLOOR POST-OP RECOVERY EXPANSION
SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, California 94403

PROJECT NUMBER
12941

Date: 01-15-14
Scale: AS NOTED
Sheet No.
FP0.1
of:



SHEET NOTES

1. RELOCATE SPRINKLER HEAD.

1 FP2.1 FLOOR PLAN - DEMO & NEW - FIRE PROTECTION
SCALE: 1/4"=1'-0"

NORTH

0 1 2 4 8
SCALE: 1/4" = 1'-0"

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S140671-41

FLOOR PLAN-DEMO & NEW-FIRE PROTECTION

2nd FLOOR POST-OP RECOVERY EXPANSION

SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, California 94403

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
FEB 25 2015
Office of Statewide Health Planning and Development
FACILITIES DEVELOPMENT DIVISION

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FP2.1
of:

ABBREVIATIONS

A	AMPERE
AFF	ABOVE FINISHED FLOOR
ATS	AUTOMATIC TRANSFER SWITCH
C	CONDUIT
CO	CONDUIT ONLY
CAB	CABINET
CKT	CIRCUIT
CB	CIRCUIT BREAKER
(E)	(EXISTING)
(F)	(FUTURE)
(G)	(GROUND)
HZ	HERTZ
JB	JUNCTION BOX
KVA	KILOVOLTAMPERE
KW	KILOWATT
MCC	MOTOR CONTROL CENTER
(N)	(NEW)
NC	NORMALLY CLOSE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
PNL	PANELBOARD
PH	PHASE
(R)	(RELOCATED)
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT
VA	VOLTAMPERE
W	WATT
WP	WEATHERPROOF

Support and Seismic Bracing of Suspended Distribution System:

1

1. All new pipe and conduit support and bracing shall be installed in accordance with OSHPD Pre-Approval Manufacturer's Certification and the requirements of ASCE 7 13.6 as Modified by CBC 2013 Chapter 16A. Below is a list of acceptable pre-approved systems for support and bracing of pipes and conduit:
   a. OPM-0043-13 – Mason Industries "Seismic Restraint Components for Suspended Utilities"
   b. OPM-0052-13 – B-Line/TOLCO – "Seismic Bracing and Support Systems"
2. Shop drawings shall be submitted to the discipline in responsible charge of the project for review to verify that details are in conformance with all the code requirements. The shop drawings shall include a plan of the distribution system with brace locations and details. The shop drawings shall be prepared per section 1613A.4 CBC 2013. The structural engineer will forward the anchorage and bracing plans to the discipline in responsible charge with a notation indicating that the plans are in general conformance with the pre-approval and the design of the project (CBC Part1, Section 7-153). A "Shop Drawing Stamp" may be used to indicate compliance with this requirement. The discipline in responsible charge may provide the shop drawings stamp for small installation at the discretion of the district structural engineer.
3. The structural engineer of record shall design any supplementary framing that is needed to resist the loads, maintain stability and/or is required for the installation of the pre-approved system.
4. The shop drawings (with the shop drawing stamp) shall be submitted to the OSHPD District Structural Engineer to Review the Seismic Lateral Force FP for the Pre-Approved System.
5. The Reviewed Shop Drawings (with the shop drawing stamp) shall be kept on the jobsite and can then be used for installation for the support and bracing. OHSPD field staff will review the installed system.
6. A copy of the chose bracing system(s) installation guide/manual shall be on the jobsite prior to starting the installation of hangers and/or braces. It is the contractor's responsibility to obtain copies of OSHPD Pre-approvals and furnish the IOR with one copy of each.
7. Do not mix components of two or more pre-approved bracing systems. Only one pre-approved bracing system may be used for a run of pipe, duct, or conduit. Any substitution of a component of a pre-approved bracing system requires OSHPD review and approval.

DRAWING INDEX

DEMOLITION NOTES

1. ALL MATERIALS AS A RESULT OF DEMOLITION WORK SHALL REMAIN THE PROPERTY OF THE OWNER. THE OWNER WILL DETERMINE WHICH MATERIALS WILL BE KEPT BY THE OWNER. THE CONTRACTOR SHALL STORE THESE MATERIALS AS DIRECTED BY THE OWNER. ALL UNWANTED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AT CONTRACTOR'S EXPENSE.

2. WHERE INDICATED ON DRAWINGS TO DISCONNECT, RELOCATE, OR REMOVE EXISTING BRANCH CIRCUIT WIRING OR EQUIPMENT, CONTRACTOR SHALL REMOVE WIRES, CABLES, CONDUITS, JUNCTION OR OUTLET BOXES BACK TO POWER SOURCE. CONCEALED CONDUITS MAY BE ABANDONED IN PLACE. CAP OR PLUG DISCONTINUED CONDUITS BEYOND WALL OR CEILING SURFACE AND RESTORE TO MATCH ADJACENT SURFACES. RE-ROUTE BRANCH CIRCUIT WIRING WHERE NECESSARY TO MAINTAIN CIRCUIT CONTINUITY TO DEVICES THAT ARE TO REMAIN IN OPERATION.

3. VERIFY ALL EXISTING INSTALLATIONS IN THE FIELD PRIOR TO ANY DEMOLITION WORK. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO DEMOLITION.

4. ALL SURFACES DAMAGED BY THIS DEMOLITION WORK SHALL BE REPAIRED TO MATCH ADJACENT SURFACES.

5. UTILITIES (ELECTRIC, TELEPHONE, GAS, WATER, ETC.) THAT ARE DAMAGED AS A RESULT OF ANY DEMOLITION WORK SHALL BE RESTORED IN WORKING CONDITION TO THE SATISFACTION OF THE OWNER.

SYMBOLS

CEILING MOUNTED	WALL MOUNTED	
○	○	INCANDESCENT, COMPACT FLUORESCENT, OR HID LIGHTING OUTLET AND FIXTURE.
●	●	INCANDESCENT, COMPACT FLUORESCENT, OR HID LIGHTING OUTLET AND FIXTURE CONNECTED TO EMERGENCY POWER.
⊗	⊗	EXIT SIGN LIGHTING OUTLET AND FIXTURE. SHADED QUADRANT INDICATES LIGHTED FACE. DIRECTIONAL ARROWS AS INDICATED.
▭	▭	FLUORESCENT LIGHTING OUTLET AND FIXTURE.
▬	▬	FLUORESCENT LIGHTING OUTLET AND FIXTURE CONNECTED TO EMERGENCY POWER.
1a		ADJACENT NUMBER INDICATES CIRCUIT CONNECTED TO. SMALL CASE LETTER INDICATES CONTROLLING SWITCH.
		WIRES IN CONDUIT CONCEALED ABOVE CEILING OR IN WALLS.
		WIRES IN CONDUIT CONCEALED BELOW FLOOR OR UNDERGROUND.
A-1		HOMERUN TO PANEL OR TERMINAL CABINET. LETTER INDICATES PANEL; NUMBER INDICATES CIRCUIT NUMBER. NUMBERS IN PARENTHESIS INDICATES MULTI-POLE CIRCUIT.
#10		CROSS HATCHES INDICATES NUMBER OF NO. 12 AWG WIRES EXCLUDING GROUND WIRE. NO CROSS HATCHES INDICATES 2# 12 AWG WIRES. NUMBER ADJACENT TO CROSS HATCHES INDICATES WIRE SIZES LARGER THAN NO. 12 AWG.
		CONDUIT STUB-OUT
		CONDUIT RISER UP
		CONDUIT RISER DOWN
		FLEXIBLE CONDUIT
		BARE COPPER GROUND CABLE BURIED 30 INCHES MINIMUM.
		FIRE ALARM CABLES IN CONDUIT CONCEALED ABOVE CEILING OR IN WALLS. CABLE TYPE, SIZE AND QUANTITY AS SPECIFIED.
		TELEPHONE/DATA SYSTEM CONDUIT CONCEALED ABOVE CEILING OR IN WALLS. SIZE AS SHOWN OR NOTED. MINIMUM SIZE: 3/4 INCH
		SPEAKER CABLES IN CONDUIT CONCEALED ABOVE CEILING OR IN WALLS.
		NURSE CALL SYSTEM CABLES IN CONDUIT CONCEALED ABOVE CEILING OR IN WALLS. CABLE TYPE, SIZE AND QUANTITY AS SPECIFIED.
		SURFACE METAL RACEWAY (WIREMOLD)
		MULTI-OUTLET SURFACE METAL RACEWAY (PLUGMOLD).
		INTERCOM CABLES IN CONDUIT. RATINGS AS SPECIFIED.
▭		DISTRIBUTION PANELBOARD, SURFACE OR FLUSH WALL MOUNTED. MOUNT TOP OF CABINET 78 INCHES ABOVE FINISH FLOOR.
		LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARD, SURFACE OR FLUSH WALL MOUNTED. MOUNT TOP OF CABINET 78 INCHES ABOVE FINISH FLOOR.
		TERMINAL CABINET, SURFACE OR FLUSH WALL MOUNTED. MOUNT TOP OF CABINET 72 INCHES ABOVE FINISH FLOOR.
		CONTROL PANEL, SURFACE OR FLUSH WALL MOUNTED. MOUNT TOP OF CABINET 72 INCHES ABOVE FINISH FLOOR.
S		SINGLE POLE SWITCH. MOUNT DEVICE CENTER LINE 48 INCHES ABOVE FINISH FLOOR.
S_3		THREE-WAY SWITCH. MOUNT DEVICE CENTER LINE 48 INCHES ABOVE FINISH FLOOR.
S_P		SWITCH WITH PILOT LIGHT. MOUNT DEVICE CENTER LINE 48 INCHES ABOVE FINISH FLOOR.
S_D		DIMMER SWITCH, RATINGS AS NOTED. MOUNT DEVICE CENTER LINE 48 INCHES ABOVE FINISH FLOOR.
S_T		SWITCH WITH THERMAL TRIP. MOUNT ADJACENT TO EQUIPMENT CONTROLLED.
S_0		ADJACENT SMALL CASE LETTER INDICATES CONTROLLED DEVICE.
		DUPLEX RECEPTACLE. MOUNT DEVICE CENTER LINE 18 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.
		DUPLEX RECEPTACLE CONNECTED TO EMERGENCY POWER. MOUNT DEVICE CENTER LINE 18 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.
		DOUBLE DUPLEX (QUAD) RECEPTACLE. MOUNT DEVICE CENTER LINE 18 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.
		DOUBLE DUPLEX (QUAD) RECEPTACLE CONNECTED TO EMERGENCY POWER. MOUNT DEVICE CENTER LINE 18 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED. FLOOR MOUNTED DUPLEX RECEPTACLE.

CEILING MOUNTED	WALL MOUNTED	
		FLOOR MOUNTED DUPLEX RECEPTACLE CONNECTED TO EMERGENCY POWER.
		FLOOR MOUNTED DOUBLE DUPLEX (QUAD) RECEPTACLE.
		FLOOR MOUNTED DOUBLE DUPLEX (QUAD) RECEPTACLE CONNECTED TO EMERGENCY POWER.
		SPECIAL PURPOSE RECEPTACLE. RATINGS AS SHOWN. MOUNT DEVICE CENTER LINE 18 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.
	$_1$	ADJACENT NUMBER INDICATES CIRCUIT NUNBER CONNECTED TO. NUMBERS IN PARENTHESIS INDICATES MULTI-POLE CIRCUIT.
	$_W$	WALL TELEPHONE OUTLET. MOUNT DEVICE CENTERLINE 48 INCHES ABOVE FINISH FLOOR. STUB-UP 3/4 INCH CONDUIT ABOVE ACCESSIBLE CEILING.
		TELEPHONE OUTLET. MOUNT DEVICE CENTER LINE 18 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED. STUB-UP 3/4 INCH CONDUIT ABOVE ACCESSIBLE CEILING.
		VOICE/DATA OUTLET. MOUNT DEVICE CENTER LINE 18 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED. STUB-UP 3/4 INCH CONDUIT ABOVE ACCESSIBLE CEILING.
	$_M$	INTERCOM OUTLET AND STATION. MOUNT DEVICE CENTER LINE 48 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.
		FIRE ALARM MANUAL PULLSTATION. MOUNT DEVICE CENTER LINE 48 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.
		FIRE ALARM STROBE. MOUNT DEVICE CENTER LINE 80 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.
		FIRE ALARM COMBINATION CHIME/STROBE. MOUNT DEVICE CENTER LINE 80 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.
SD		SMOKE DETECTOR, CEILING MOUNTED.
	DD	SMOKE DETECTOR, DUCT MOUNTED.
HD		HEAT DETECTOR.
	FS	FLOW SWITCH.
	SS	SUPERVISORY SWITCH.
	DH	MAGNETIC DOOR HOLDER.
	DC	ELECTRIC DOOR CLOSER.
		NURSE CALL DOME LIGHT. MOUNT ABOVE DOOR OR ON CEILING AS SHOWN.
	N P	NURSE CALL STATION. MOUNT DEVICE CENTER LINE 48 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.SUBSCRIPT INDICATES TYPE M – MASTER STATION E – EMERGENCY PULL STATION P – PATIENT CALL STATION S – STAFF NORMAL CALL STATION SE – STAFF EMERGENCY CALL STATION D – DUTY STATION CB – CODE BLUE STATION
S	S	PUBLIC ADDRESS SPEAKER
	C	CLOCK AND CLOCK OUTLET. MOUNT DEVICE CENTER LINE 78 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.
	T	ELAPSED TIMER AND OUTLET. MOUNT DEVICE CENTER LINE 78 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.
	TC	ELAPSE TIMER CONTROLLER. MOUNT DEVICE CENTER LINE 48 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.
	TV	CABLE TV OUTLET. STUB-UP 3/4 INCH CONDUIT ABOVE ACCESSIBLE CEILING. MOUNT DEVICE CENTER LINE 18 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.
1 / E7.1		DETAIL REFERENCE NUMBER. UPPER HALF INDICATES DETAIL NUMBER. LOWER HALF INDICATES DRAWING NUMBER WHERE SHOWN.
AC 1		EQUIPMENT NUMBER. UPPER HALF INDICATES EQUIPMENT NUMBER. LOWER HALF INDICATES EQUIPMENT TYPE.
		JUNCTION BOX.
M		MOTOR CONNECTION
		DISCONNECT SWITCH. RATINGS AS SHOWN.
1		SHEET NOTE NUMBER
A		LIGHT FIXTURE TYPE.

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, PART 1
APPROVED
FEB 25 2015
Office of Statewide Health Planning & Development
FACILITIES DEVELOPMENT DIVISION

OSHPD #S140671-41-00

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Revisions:	
BACKCHECK 1	1

SYMBOLS, ABBREV., GENERAL NOTES

2ND FLOOR POST-OP RECOVERY

SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

12 B

PROJECT NUMBER
12941

Date: 05-01-14
Scale: AS SHOWN
Sheet No.
E0.1
of:

SPECIFICATIONS

SECTION 16010 GENERAL PROVISIONS

PART 1 – GENERAL

1.01 CONDITIONS & REQUIREMENTS
A. Provisions of this Section shall apply to all Sections of Division 16.

1.02 DEFINITIONS (APPLICABLE TO DRAWINGS AND SPECIFICATIONS)
A. Concealed: Inside building above grade and located within walls, furred spaces, crawl spaces, attics, above suspended ceilings, etc. In general, any item not visible or directly accessible.
B. Connect: Complete hookup of item with required services, including conduit, wires and other accessories.
C. Exposed: Either visible or subject to mechanical or weather damage, indoor or outdoors, including areas such as mechanical and storage rooms. In general any item that is directly accessible without removing panels, walls, ceilings, or other parts of structure.
D. Furnish: Supply and deliver complete.
E. Install: Place, secure and connect as required to make fully operational.
F. Provide: Furnish and install as defined above; perform work.
G. Use (verb): Furnish and install as defined above.
H. Wiring: Raceway, conductors and connections.

1.03 SCOPE OF WORK
A. Provide all materials and labor that are necessary to complete the Work shown and specified herein for complete installation and testing of the system. It is the intent of the Drawings and Specifications that all systems be complete and ready for operation.

1.04 CODE COMPLIANCE
A. All work and materials shall comply with the latest rules, codes and regulations, including, but not limited to the following:
1. California Building Code (CBC), 2013
2. California Electric Code (CEC), 2013
3. California Mechanical Code (CMC), 2013 1
4. California Fire Code (CFC), 2013
5. All other applicable Federal, State, and Local Laws and Regulations.

1.05 LICENSE, FEES AND PERMITS
A. Arrange for required inspections and pay all license, permit and inspection fees.

1.06 CONDITIONS AT SITE
A. Visit to site is required of all bidders prior to submission of bid. All will be held to have familiarized themselves with all discernible conditions and no extra payment will be allowed for work required because of these conditions, whether specifically mentioned or not.
B. Lines of other services that are damaged as a result of this work shall promptly be repaired at no expense to the Owner to complete satisfaction of the Owner.

1.07 DRAWINGS AND SPECIFICATIONS
A. All Drawings and all Divisions of these Specifications shall be considered as a whole and work for this Division shown anywhere therein shall be furnished under this Division.
B. For the purpose of clarity and legibility, Drawings are diagrammatic and indicate the general arrangement of equipment and wiring. Many offsets, bends, special fittings, and exact locations of items are not indicated, unless specifically dimensioned. Most direct routing of conduits and wiring is not assured. Exact requirements shall be governed by architectural, structural and mechanical conditions of the job. Consult all other drawings in preparation of the bid. Extra length of wiring or addition of pull or junction boxes, etc., necessitated by such conditions shall be included in the bid. Check all information and report any apparent discrepancies before submitting bid.

1.08 SAFETY AND INDEMNITY
A. The Contractor shall be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours.
B. No act, service, drawing review or construction review by the Owner, the Architect, or their Consultants is intended to include review of the adequacy of the Contractor's safety measures, in, on, or near the construction site.

PART 2 – PRODUCTS

2.01 MATERIAL APPROVAL
A. The design, manufacture and testing of electrical equipment and materials shall conform to or exceed latest applicable NEMA, IEEE and ANSI standards.
B. All materials must be new and labeled. Materials that are not covered by UL testing standards shall be tested and accepted by an independent testing laboratory or a governmental agency, which laboratory shall be acceptable to the Architect, Owner and code enforcing authority.

2.02 SHOP DRAWINGS AND MATERIALS LIST
A. Submit shop drawings and product descriptive literature as specified for review.
B. Material list shall not include items where no specific manufacturer is shown in the specifications. Where manufacturers are shown, material list shall include only one manufacturer for each type of equipment or system.
C. Purpose of review of submittals is for check of general compliance with information given in Contract Documents. Each review and/or addition of notations and comments does not relieve Contractor from compliance with requirements of Project Contract Documents.
D. Contractor shall be responsible for confirming and correlating all quantities and dimensions, selecting fabrication processes and techniques of construction.
E. All proposed deviations from specifications should be clearly listed under a prominent heading entitled "DEVIATIONS" for review. Deviations not so listed may be disallowed before or after installation of equipment.
F. Where dimensions of proposed equipment differ significantly from that shown on the contract documents, Contractor shall submit scaled drawings showing proposed layout of equipment with shop drawing submittal.

2.03 PRODUCT DELIVERY, STORAGE AND HANDLING
A. Deliver, store, and handle materials in a manner to prevent damage.
B. Protect equipment from loss or damage. Replace lost or damaged materials and equipment with new at no increase in Contract Cost.

PART 3 – EXECUTION

3.01 WORKMANSHIP AND CONTRACTOR'S QUALIFICATIONS
A. Only quality workmanship will be accepted. Haphazard or poor installation practice will be cause for rejection of work. All rejected work shall be corrected as directed by Owner and at no additional expense to the Owner.
B. Provide foreman in charge of this work at all times.

3.02 COORDINATION
A. Coordinate work with other trades to avoid conflict and to provide correct rough in and connection for equipment furnished under trades that require electrical connections. Inform Contractors of other trades of the required access to and clearances around electrical equipment to maintain serviceability and code compliance. Provide templates, information, and instructions to other Divisions to properly locate holes and openings to be cut on for electrical work.
B. Verify equipment dimensions and requirements. Check actual job conditions before fabricating work. Report necessary changes in time to prevent needless work. Changes or additions subject to additional compensation, which are made without written authorization and an agreed price, shall be at Contractor's risk and expense.
C. Equipment Rough-in:
1. Rough-in locations shown on Electrical Drawings for equipment furnished by Owner and for equipment furnished under other Divisions are approximate only. Obtain exact rough-in locations from following sources.
a. From Shop Drawings for Contractor furnished and installed equipment.
b. From Owner for Owner furnished-Contractor installed equipment.
2. Verify electrical characteristics of equipment before starting rough in. Where conflict exists between equipment and rough in shown on Drawings obtain clarification from Owner and provide as directed.
3. Unless otherwise shown or specified, provide direct raceway and conductor connections from building wiring system to equipment terminals for direct connected equipment, which is Contractor, furnished and Contractor installed, Owner furnished and Contractor installed, and for existing equipment relocated by Contractor.

3.03 MANUFACTURER'S INSTRUCTIONS
A. Where the specifications call for an installation to be made in accordance with manufacturer's recommendations, a copy of such recommendations shall at all times be kept in the job superintendent's office and shall be available to the Owner's representative.
B. Follow manufacturer's instructions where they cover points not specifically indicated in specifications.
C. Provide an authorized representative to constantly supervise Work of this Division, check all materials prior to installation for conformance with Specifications, and reviewed Shop Drawings.

3.04 QUALITY ASSURANCE
A. Provide a meaningful Quality Assurance program. To assist the Contractor in this program, the specifications contained herein are set forth as the minimum acceptable requirements. This does not relieve the Contractor from executing other Quality Assurance measures to obtain a complete operating facility within the scope of this project.
B. The Contractor shall insure that all workmanship, all materials employed, all required equipment and the manner and method of installation conforms to accepted construction and engineering practices, and that each piece of equipment is in satisfactory working condition to satisfactorily perform its functional operation.

3.05 CUTTING AND PATCHING
A. All cutting and patching that is required for work of this Division is included. Coordination with General Contractor and other trades is imperative. Contractor shall bear the responsibility for and the added expense of adjusting for improper holes, supports, etc.

3.06 CLEANING AND PATCHING
A. Properly prepare work under this Division scheduled to be finish painted under Section 09900.
B. Refinish work supplied with final finish under this Division if damaged under this Division to acceptance of Architect.
C. Thoroughly clean interiors and tighten nuts, bolts, lugs, connections, and like items of electrical equipment.
D. After the work is accomplished, clean exposed conduit, panels (interiors and exteriors), fixtures, and equipment, and leave in satisfactory condition.

3.07 EQUIPMENT IDENTIFICATION
A. Properly identify panelboards, circuit breakers in panelboards, motor disconnect switches, starters, other apparatus used for operation of, control of circuits, appliances, or equipment by means of engraved laminated plastic descriptive nameplates mounted on apparatus using round head brass machine screws, pop rivets or contact cement. Cardholders in any form are not acceptable.
B. Provide Dymo or computer generated vinyl labels on outside face of device plate for all lighting switches, and convenience and special purpose receptacles to show panel and circuit number to which the device is connected.
C. Complete panelboard directory to show all loads connected. Directory shall be type written. Hand written is not acceptable.

3.08 MOUNTING HEIGHTS OF DEVICES
A. Unless shown otherwise on architectural interior elevations, mounting heights of devices shall be as follows:

1.	Switches:	44"
2.	Receptacles:	18"
3.	Telephone/Data outlets:	18"
4.	Wall Telephone:	44"
5.	Fire Alarm Manual Stations:	44"
6.	Fire Alarm Strobes:	80"
7.	Fire Alarm Horns:	80"

B. Mounting heights shown are from finished floor unless noted otherwise.

3.09 FIELD TEST AND OPERATIONAL CHECK
A. General:
1. The Contractor shall perform inspections and tests as herein specified. The tests and inspections shall determine the suitability for energization.
2. It is the intent of these tests to assure that all electrical equipment, both Contractor and Owner supplied, is operational within industry and manufacturer's tolerances and is installed in accordance with design specifications.
3. All tests shall be performed in the presence of the Project Inspector. Schedule tests and give a minimum of three weeks advance notice to the Owner Representative.

3.10 ACCEPTANCE DEMONSTRATION
B. Upon completion of the work, at a time to be designated by the Owner, the Contractor shall demonstrate for the Owner the operation of the installation, including any and all special items installed by him or installed under his supervision. Allow 16 hours of demonstration time.
C. This demonstration by the Electrical Contractor is in addition to the "Start-Up" service to be provided by the manufacturers specified in the specific sections of Division 16.

END OF SECTION

SECTION 16050 BASIC CONSTRUCTION MATERIALS AND METHODS

PART 1 – GENERAL

1.01 DESCRIPTION
A. Work included in this Section: conduits, wires, and other miscellaneous materials not specifically mentioned in other Sections of Division 16, but necessary or required for equipment or system operation or function, and the labor to install them.

PART 2 – PRODUCTS

2.01 CONDUITS AND OTHER RACEWAYS
A. Rigid Conduit: Hot dipped galvanized or electro-galvanized steel or anodized aluminum.
B. Intermediate Metal Conduit (IMC): Hot-dipped galvanized or electro-galvanized steel.
C. Electrical Metallic Tubing (EMT): Electro-galvanized steel.
D. Wireway: Code gauge steel, without knockouts and with hinged cover. Corrosion resistant gray baked enamel finish.
E. Provide fittings and accessories approved for the purpose and equal in all respects to the conduit or raceway. EMT connectors and couplings shall be steel compression type in wet locations and outdoors. Split fittings are not permitted. Zinc die-cast fittings are not permitted.

2.02 WIRES AND CABLES
A. For power and lighting systems 600V or less:
1. Conductor: Stranded copper. Minimum size: #12 AWG.
2. Insulation type: THWN for wet or underground locations and THHN for dry locations.
B. For signal and control circuits:
1. Special cables as required.
2. Conductors for general use: stranded copper conductor, #16 AWG minimum, with THWN insulation for underground or wet locations and THHN insulation for dry locations.

2.03 OUTLET BOXES, JUNCTION AND PULL BOXES
A. Outlet boxes: Hot-dipped galvanized or electro-galvanized of required size, 4" square by 2 1/8" deep, minimum, for flush mounted devices and lighting fixtures. Cast-metal with gasketed covers for outdoor and wet locations.
B. Junction and pull boxes: Use outlet boxes with appropriate covers as junction boxes wherever possible. Junction and pull boxes that are larger than 4-inch square shall be fabricated from code gage sheet steel with screw-on covers and gray baked enamel finish.

2.04 WIRING DEVICES
A. General:
1. Wiring devices shall have terminal screws and clamps with strand containment feature to insure 100% clamping of strands.
2. Numbers used below are those of Hubbell. Equivalent Arrow-Hart, Bryant, Leviton or Pass & Seymour are acceptable.
B. In patient care areas: Receptacles shall be duplex, hospital grade, grounding type, white body, 20A, 125V, 2P, 3W (Hubbell 8300WH). Receptacles connected to emergency power system shall be red (Hubbell 8300R).
C. In non-patient care areas: Receptacles shall be grounding type, white body, 20A, 125V, 2P, 3W, (Hubbell 5352WH). Receptacles on emergency circuit shall be red (Hubbell 5252R)
D. Ground fault circuit interrupter (GFCI) receptacles: grounding type, white body, 15A, 125V, 2P, 3W (Hubbell GF5252FWA). Receptacles on emergency circuit shall be red
E. Special purpose receptacles: NEMA configuration and ratings as shown.
F. Wall (Local) switches: Totally enclosed, 20A, 120–277A, silent type, white body. Switches on emergency circuit shall be red.
1. Single pole switch: Hubbell HBL1221W
2. Two-pole switch: Hubbell HBL1222W
3. Three-way switch: Hubbell HBL1223W
G. Device cover plates: High-impact resistant, thermoplastic or nylon, white smooth finish for flush mounted devices. Galvanized steel for surface mounted devices. Certain areas require special plates and devices. Confirm all finishes with Architect prior to ordering.

2.05 WIRE CONNECTORS
A. Wires size #8 AWG and smaller: Insulated pressure type (with live spring) rated 105 deg C, 600V for building wiring and 1000V in signs or fixtures.
B. Wires size #6 AWG and larger: Compression type with tape insulation.
C. Termination for wire sizes #8 AWG and smaller shall be "3M Brand Scotchlok Crimp Terminals" or equivalent T & B.
D. Splices in wet locations and outdoors shall be sealed with Scotchlok sealing packs no. 3578 for wire sizes #12 and #10; no. 85-10/12/14 for wire sizes #8 and larger. Watertight pressure-type connector as manufactured by King Technology, model "One-Step" is acceptable.

2.06 MOTOR STARTERS
A. Combination motor circuit protector (MCP) and magnetic motor starter, with 3-leg overload relay, selector switch, motor running pilot light, control transformer (120V secondary), and reset pushbutton on cover.
B. NEMA 4 enclosure outdoors and in wet locations.
C. Manufacturer: Square D, General Electric, Cutler-Hammer, or Siemens.

2.07 SAFETY (DISCONNECT) SWITCHES
A. Heavy-duty type, 600V, horsepower rated for motors, fused or non-fusible as required.
B. NEMA 3R enclosure outdoors and in wet locations.
C. Manufacturer: Square D, General Electric, Cutler-Hammer, or Siemens.

2.08 CONDUIT HANGERS
A. For individual conduit runs not directly fastened to the structure, use rod hangers manufactured by B-Line, Unistrut or Powerstrut.
B. For multiple conduit runs, use B-Line, Unistrut or Powerstrut trapeze type conduit support designed for maximum deflection not greater than 1/8".
C. All conduits shall be supported and braced in accordance with OSHPD pre-approved anchorage system. See sheet E0.1 for acceptable OPAs.

2.09 EQUIPMENT MOUNTING AND SUPPORT HARDWARE
A. Steel channels, bolts, washers, etc. used for mounting or support of electrical equipment shall be galvanized type. Where installed in corrosive environment stainless steel hardware shall be used.

PART 3– EXECUTION

3.01 GENERAL
A. Avoid cutting and boring holes through structure or structural members wherever possible. Obtain prior approval of Owner and conform to all structural requirements when cutting or boring the structure is necessary and permitted.
B. Furnish and install all necessary hardware, hangers, blocking, brackets, bracing, runners, etc., required for equipment specified under this Section.
C. Provide necessary backing required insuring rigid mounting of outlet boxes.

3.02 WIRING METHOD
A. Install all power and control wiring in raceway.
B. Sizes for conduits, unless specifically shown otherwise, shall be determined from appropriate Tables in Appendix C of the latest National Electric Code.
C. Minimum conduit size shall be 3/4" unless noted otherwise.
D. Conduit above ground shall be rigid steel, IMC, or EMT as follows:
1. Wet locations: Rigid steel.
2. Hazardous locations: Rigid steel conforming to NEC requirements.
3. Locations subject to mechanical injury: Rigid steel or IMC only.
4. Dry locations and not subject to mechanical injury: EMT, IMC or rigid steel conduit.
5. Under concrete floor slab and in masonry walls: plastic conduits (PVC 40).
E. Use flexible steel conduits in the following applications:
1. Motor connections.
2. Connections between fan plenum and structure.
3. At expansion joints.
4. At transformers and other equipment which produces vibration.
5. At wet locations or in areas subject to mechanical damage, flexible steel conduit shall be liquid tight type.

3.03 INSTALLATION OF CONDUITS
A. General:
1. Run all conduits concealed except in mechanical and electrical rooms.
2. Run exposed conduit parallel to or at right angles to centerlines of columns and beams.
3. Run no conduit in concrete slabs or floors except at point of penetration. All penetrations shall be at right angles to slab surfaces.
4. Install conduits above ceilings to avoid obstructing removal of ceiling tiles, lighting fixtures, air diffusers, etc.
5. Conduits shall not cross any duct shaft or area designated as future duct shaft horizontally. Conduit risers when allowed in duct shaft must be coordinated with Mechanical work to avoid any conflict.
6. Install 1/8" diameter Tubbs Cordage Company yellow "polyline" pull line in all conduits provided under this contract that is intended for future use.
7. Provide pull boxes where shown or as required to limit any conduit run to a maximum of three 90 bends (or equivalent), or to avoid "U" bends.
B. Conduit Supports:
1. Support conduits with UL listed steel conduit supports at intervals required by NEC. Wires or sheet metal strips are not acceptable for conduit support. Use conduit hangers for all conduits not directly fastened to structure and for all multiple conduit runs.
2. Avoid attaching conduit to fan plenums. When it is necessary to support conduit from fan plenum, provide a length of flexible conduit between portion attached fan plenum and portion attached to the building to minimize transmission of vibration to the building structure.
C. Conduit Penetration:
1. Penetrating concrete floor slab above grade: Install conduit in conduit sleeve or block-out or in core drilled hole.
2. Penetrating fire rated floor or wall: Install conduit in conduit sleeve or framed opening. Seal penetration with fire retardant sealant. Fire rating integrity must be preserved.
3. Penetrating roof or exterior wall: Avoid penetrating roof or exterior wall where possible. Where penetrations are necessary, building weatherproof integrity must be preserved.
4. Penetrating non-fire rated dry wall: Conduit sleeves are not required. Penetrations must be sealed with plaster prior to painting. Penetrations made after wall finish is applied must be as small as possible and provided with escutcheons, one on each side of wall.

3.04 INSTALLATION OF WIRES
A. Pull no wire into any portion of the conduit system until all construction work, which might damage the wire, has been completed.
B. Install all wire continuous from outlet to outlet or terminal to terminal. Splices cables in pull boxes or junction boxes. Make branch circuit splices in outlet boxes with 8" of correctly color-coded tails left in the box.
C. Megger all 600 volt insulated conductor size #4/0 AWG and larger using a 500-volt megger for one minute. Make tests with circuits isolated from source and load.
D. Provide wire markers where number of conductors in a box exceeds four.

3.05 WIRE COLOR CODE
A. Color-code all conductors. Wire sizes #6 AWG or smaller shall have integral color-coded insulation. Wire sizes #6 AWG and larger may have black insulation but identified by color-coded electrical tape at all junction, splice, pull, or termination points. Color tape shall be applied 1/2 lap to at least 6" of the conductor.
B. Color code wires to match existing.

3.06 CONNECTIONS TO EQUIPMENT
A. General:
1. Furnish and install required power supply conduit and wiring to all equipment.
2. Mount all motor starters and provide all power wiring to them, including those furnished under other sections of specifications.
3. Install all rough-in work for equipment from approved shop drawings to suit the specific requirements of the equipment.
4. Install all magnetic motor starters that are specified under other Divisions. Verify equipment nameplate ratings prior to installation.
B. Heating, Ventilating, and Air Conditioning Equipment:
1. Line and low voltage temperature control and interlock wiring and conduit, and required connections are part of this Work unless specified to be furnished under other Divisions.
2. Provide 120-volt power supply to temperature control panels furnished and installed under other Divisions.

END OF SECTION

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
FEB 25 2015
Office of Statewide Health Planning & Development
FACILITIES DEVELOPMENT DIVISION

OSHPD #S140671-41-00

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Revisions:

BACKCHECK 1	1

SPECIFICATIONS

2ND FLOOR POST-OP RECOVERY
SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

PROJECT NUMBER
12941

Date: 05-01-14
Scale: AS SHOWN
Sheet No.
E0.2
of:

SECTION 16060 GROUNDING

PART 1 – GENERAL

1.01 DESCRIPTION
A. Work included in this Section: Conduits, cables, and other miscellaneous materials for electrical grounding system.

PART 2 – PRODUCTS

2.01 GROUND ROD
A. Copper–clad steel rod conforming or exceeding requirement of UL specification No. 467. Rods shall be ¾" diameter, 10 feet long.

2.02 BARE COPPER GROUND WIRE
A. Medium hard drawn copper conductor, stranded, sizes as required.

2.03 HARDWARE
A. Bolts, nuts, and washers shall be bronze, cadmium plated steel, or other non–corrosive material, approved for the purpose.

PART 3 – EXECUTION

3.01 GROUNDING ELECTRODE SYSTEM
A. Grounding electrode system shall consist of the following electrodes:
1. Ground rod.
2. Ufer ground.
3. Structural steel.
4. Cold water metallic pipe.

3.02 CONNECTIONS FOR GROUNDING ELECTRODE
A. All grounding system connections shall use compression type connectors or exothermic weld, including all cable connections, steel column connections and splices, cable to steel structure, and cable to lug terminations.

3.03 ELECTRICAL EQUIPMENT GROUNDING
A. Ground non–current carrying metal parts of electrical equipment enclosures, frames, conductor raceways or cable trays to provide a low impedance path for line–to–ground fault current and to bond all non–current carrying metal parts together. Install a ground conductor in each raceway system. Equipment ground conductor shall be electrically and mechanically continuous from the electrical circuit source to the equipment to be grounded. Size ground conductors per NEC 250–95 unless larger conductors are shown on drawings.
B. Grounding conductors shall be identified with green insulation. Where green insulation is not available, on larger sizes, black insulation shall be used and suitably identified with green tape at each junction box or device enclosure.
C. Install metal raceway couplings, fittings and terminations secure and tight to insure good ground continuity. Provide grounding bushing and bonding jumper where metal raceway is not directly attached to equipment metal enclosure and at concentric knockouts.
D. Lighting fixtures shall be securely connected to equipment ground conductors.
E. Motors shall be connected to equipment ground conductors with a conduit grounding bushing and with a bolted solderless lug connection on the metal frame.

3.04 BONDING
A. Bonding shall be provided to assure electrical continuity and the capacity to conduct safely any fault current likely to be imposed.
B. Bonding shall be in accordance with NEC Article 250, Part G.

3.05 TESTING
A. Visual and Mechanical Inspection
1. Inspect ground system for compliance with drawings and specifications.
B. Electrical Test
1. Perform ground–impedance measurements utilizing the fall–of–potential method per ANSI/IEEE Standard 81 "IEEE Guide for Measuring Earth Resistivity, Ground Impedance, and Earth Surface Potentials of a Ground System". Instrumentation utilized shall be as defined in Section 12 of the above guide and shall be specifically designed for ground impedance testing. Provide sufficient spacing so that plotted curves flatten in the 62% area of the distance between the item under test and the current electrode.
C. Equipment Grounds
1. Utilize two–point method of IEEE Std. 81. Measure between equipment ground being tested and known low–impedance grounding electrode or system.
D. Test Values
1. The main ground electrode system impedance–to–ground should be no greater than five (5) ohms. Equipment grounds should be only fractionally higher than system ground.

END OF SECTION

SECTION 16500 LIGHTING

PART 1 – GENERAL

1.01 DESCRIPTION
A. Work included in this Section: Lighting fixtures including lamps and installation.

1.02 SUBMITTALS
A. Manufacturer's literature describing product.
B. Photometric data by an independent testing laboratory.

PART 2 – PRODUCTS

2.01 GENERAL
A. Fixtures are designated on Drawings by means of letters. See drawings for fixture description and type of lamp required.
B. Where only one fixture designation appears in a room or area, that designation applies to all fixtures in that room or area.
C. Tandem wired units acceptable where appropriate.

2.02 LISTING
A. Lighting fixtures shall have UL label for the location the fixture is installed.
B. All other materials shall be UL listed.

2.03 LAMPS
A. Low voltage lamps: 50–watt tungsten halogen reflector–mounted, very narrow spot beam pattern, MR16. Other wattage and beam pattern are as shown.
B. Fluorescent lamps: rapid start T8–lamps, 265 ma, straight or U–shape as shown, tri–phosphor with color temperature of 3500K, and 80 CRI minimum. Wattage and length are as shown.
C. Compact fluorescent: 3500K color temperature. Wattage and shape are as shown.
D. Special lamps: as shown.
E. Manufacturers: General Electric, Philips, Osram–Sylvania or Venture Lighting.

2.04 BALLASTS
A. Electronic Ballast:
1. Ballast shall operate one or two 4–foot F32–T8 rapid start lamps and their U–shaped equivalents. Ballast shall be compatible for master/slave applications. Ratings shall be as follows:
a. THD: less than 10%
b. Current crest factor: less than 1.5 (Ave. lamp current)
c. Input voltage: +/– 10% of nominal voltage
d. Frequency: over 30kHz
e. Power factor: 95% minimum
f. Ballast factor: 88% +/– 3%
2. Ballast shall have a soft start/rapid start function, which preheats cathode filaments and then ignites the lamp for maximum lamp life.
3. Manufacturer: Universal, Advance, or Osram/Sylvania.
B. Dimming Ballast:
1. Ballast shall operate one or two 4–foot F32–T8 rapid start lamps and their U–shaped equivalents. Ratings shall be as follows:
a. THD: less than 10%
b. Current crest factor: less than 1.5 (Ave. lamp current)
c. Input voltage: +/– 10% of nominal voltage
d. Frequency: over 30kHz
e. Power factor: 95% minimum
f. Ballast factor: 88% +/– 3%
2. Ballast shall have a soft start/rapid start function, which preheats cathode filaments and then ignites the lamp for maximum lamp life.
3. Ballast shall dim continuously from 100% to less than 10% light output.
4. Ballast shall maintain full filament heat throughout the dimming range for long life.
5. Dimming circuitry shall be UL Class 2 and shall be fully isolated from ballast input power.
6. Ballast shall be fully compatible with dimmer. Refer to dimmers described below.
7. Manufacturer: Lutron or approved equivalent.

2.05 DIMMERS
A. Dimmer shall operate electronic dimming ballast described above. Dimmer shall be capable of controlling up to eight (8) ballast.
B. Vertical slide intensity control with separate on/off rocker switch, allowing for pre–set light levels.
C. Adjustable low–end trims, white finish.
D. Universal input voltage: 120/277 volts.
E. Maximum capacity: 16.7amperes at 120V
F. Manufacturer: Lutron Nova series or approved equivalent.

2.06 GROUNDING
A. Fixtures shall have factory installed grounding studs.

PART 3 – EXECUTION

3.01 GENERAL
A. Provide and install all fixtures complete, including lamps, and ready for service.
B. Verify ceiling type and conditions, and order fixtures for proper application required by type of ceiling.
C. Architectural reflected ceiling plans and interior elevations should be used to determine exact location of lighting fixtures.
D. Install fixtures in such a manner as to avoid obstructions and to give proper illumination result. Verify layouts with Architect.

3.02 INSTALLATION OF RECESSED LIGHT FIXTURES
A. All recessed lighting fixtures shall be wired from adjacent junction boxes using flexible metal conduit to permit future fixture relocation.
B. Coordinate with ceiling installation contractor.

3.03 INSTALLATION OF SURFACE MOUNTED LIGHT FIXTURES
A. All fixtures shall be supported from the building structural members or from bridging attached to the structural member. Provide all necessary blocking and hardware so that fixture hangs true, square, plumb, and in proper alignment.

END OF SECTION

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Revisions:

BACKCHECK 1	1

SPECIFICATIONS

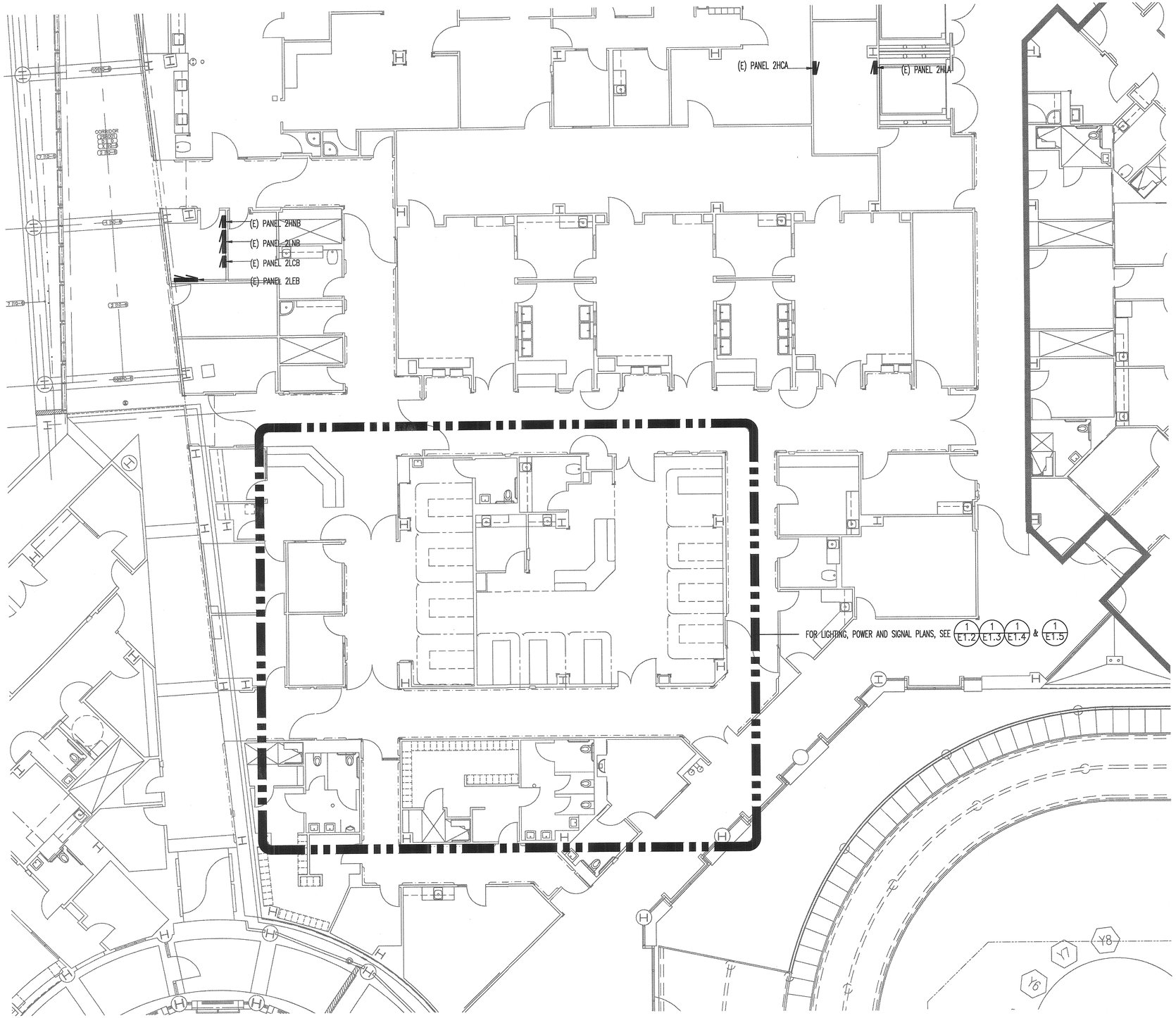
2ND FLOOR POST–OP RECOVERY
SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

PROJECT NUMBER
12941

Date: 05–01–14
Scale: AS SHOWN
Sheet No.
E0.3
of:

STATEMENT IN ACCORDANCE WITH THE REQUIREMENTS OF T24, OSHPD
APPROVED
FEB 25 2015
Office of Statewide Health Planning & Development
FACILITIES DEVELOPMENT DIVISION
3

OSHPD #S140671-41-00



1 Electrical Plan
SCALE: 1/8"= 1'-0"

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED (RC)
FEB 25 2015
Office of Statewide Health Planning & Development
FACILITIES DEVELOPMENT DIVISION
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OSHPD #S140671-41-00

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ELECTRICAL PLAN

2ND FLOOR POST-OP RECOVERY

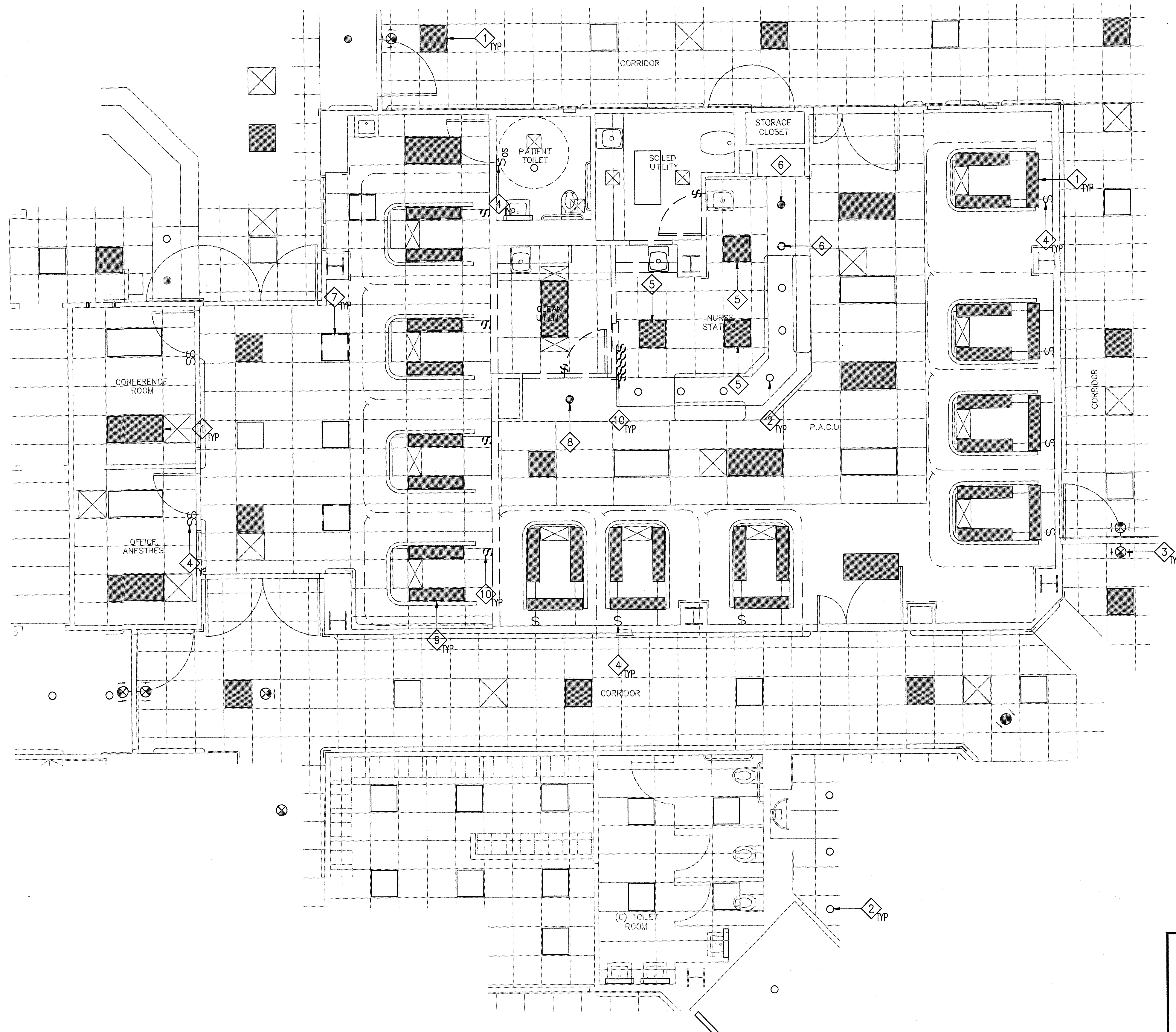
SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

PROJECT NUMBER
12941

Date: 05-01-14
Scale: AS SHOWN
Sheet No.
E1.1
of:

SHEET NOTES

1. EXISTING CEILING RECESSED MOUNTED FLUORESCENT FIXTURE – 2'X 2', 2'X 4', AND 1' X 4'– TO REMAIN. MAINTAIN EXISTING SWITCHING SCHEME.
2. EXISTING DOWNLIGHT TO REMAIN. MAINTAIN EXISTING SWITCHING SCHEME.
3. EXISTING ILLUMINATED EXIT SIGN TO REMAIN.
4. EXISTING SWITCH TO REMAIN.
5. RELOCATE EXISTING 2'X 2' CEILING RECESSED FLUORESCENT. SEE SHEET E1.4 FOR NEW LOCATION.
6. RELOCATE EXISTING RECESSED DOWNLIGHT. SEE SHEET E1.4 FOR NEW LOCATION.
7. REMOVE EXISTING CEILING RECESSED 2' X 2' FLUORESCENT AND WIRING BACK TO NEAREST LIGHT FIXTURE TO REMAIN.
8. REMOVE EXISTING RECESSED DOWNLIGHT AND WIRING BACK TO NEAREST LIGHT FIXTURE TO REMAIN.
9. RELOCATE EXISTING CEILING RECESSED 1' X 4' FLUORESCENT. SEE SHEET E1.4 FOR NEW LOCATION.
10. REMOVE EXISTING SWITCH AND WIRING BACK TO LIGHT FIXTURE.



1 Lighting Plan – Demolition
SCALE: 1/4"= 1'-0"

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
FEB 25 2015
Office of Statewide Health Planning & Development
FACILITIES DEVELOPMENT DIVISION

OSHPD #S140671-41-00

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LIGHTING PLAN - DEMOLITION

2ND FLOOR POST-OP RECOVERY
SAN MATEO MEDICAL CENTER
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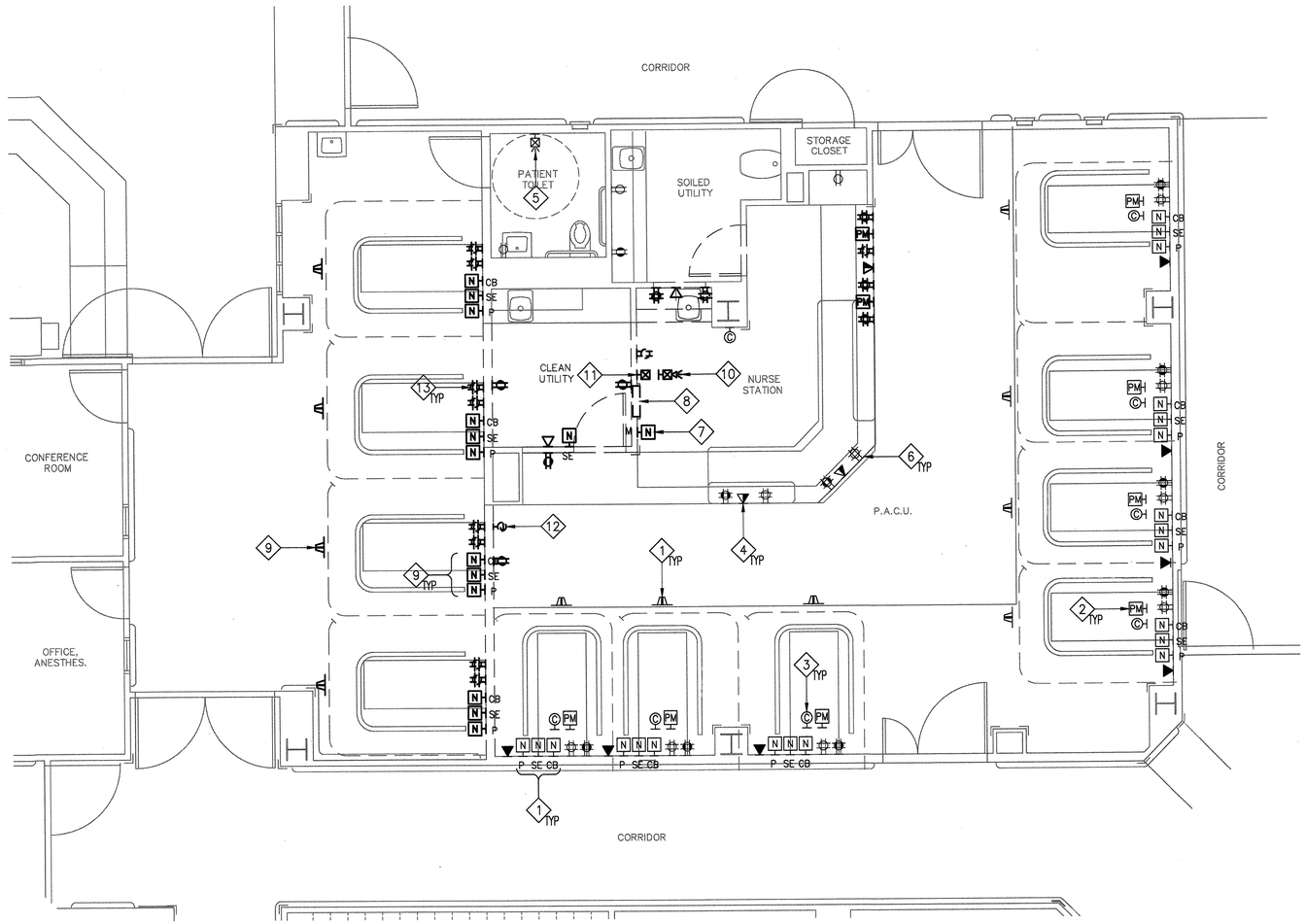
PROJECT NUMBER
12941

Date: 05-01-14
Scale: AS SHOWN
Sheet No.
E1.2
of:

SHEET NOTES

1. EXISTING NURSE CALL DEVICES – PATIENT STATIONS, EMERGENCY CALL STATIONS, STAFF EMERGENCY CALL STATIONS, DUTY STATIONS, DOME LIGHTS – TO REMAIN.
2. EXISTING PHYSIOLOGICAL MONITOR OUTLET TO REMAIN.
3. EXISTING CLOCK TO REMAIN.
4. EXISTING VOICE/DATA OUTLET TO REMAIN.
5. EXISTING FIRE ALARM STROBE TO REMAIN.
6. EXISTING RECEPTACLE – DUPLEX OR QUAD – TO REMAIN.
7. RELOCATE NURSE CALL MASTER STATION. SEE SHEET E1.5 FOR NEW LOCATION.
8. RELOCATE MEDICAL GAS ALARM PANEL. SEE SHEET E1.5 FOR NEW LOCATION.
9. RELOCATE NURSE CALL DEVICES – PATIENT STATIONS, EMERGENCY CALL STATIONS, STAFF EMERGENCY CALL STATIONS, DUTY STATIONS, DOME LIGHTS. SEE SHEET E1.5 FOR NEW LOCATION.
10. RELOCATE FIRE ALARM CHIME/STROBE. SEE SHEET E1.5 FOR NEW LOCATION.
11. RELOCATE FIRE ALARM PULLSTATION. SEE SHEET E1.5 FOR NEW LOCATION.
12. REMOVE BLANKET WARMER ELECTRICAL CONNECTION. RE-USE EXISTING HOMERUN WIRING. SEE SHEET E1.5 FOR NEW WIRING REQUIREMENT.
13. REMOVE BLANKET REMOVE RECEPTACLE – DUPLEX OR QUAD. RE-USE EXISTING HOMERUN WIRING. SEE SHEET E1.5 FOR NEW WIRING REQUIREMENT.



1 Power & Signal Plan – Demolition
SCALE: 1/4"= 1'-0"

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
FEB 25 2015
Office of Statewide Health Planning & Development
FACILITIES DEVELOPMENT DIVISION

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BACKCHECK 1 — 1

POWER & SIGNAL PLAN - DEMOLITION
2ND FLOOR POST-OP RECOVERY
SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

PROJECT NUMBER
12941

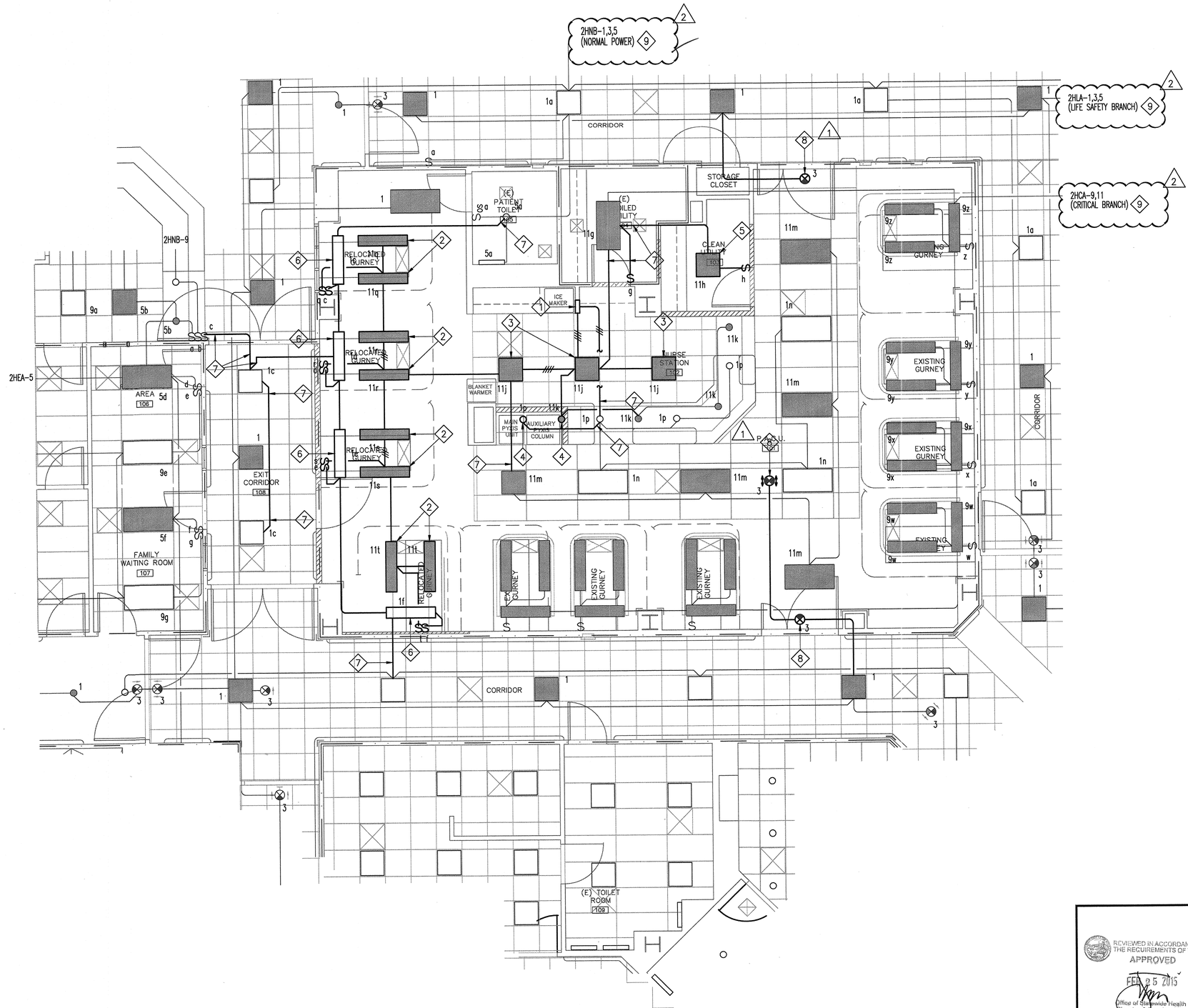
Date: 05-01-14
Scale: AS SHOWN
Sheet No.
E1.3
of:

GENERAL NOTES

1. EQUIPMENT SHOWN IN THIN SOLID LINES ARE EXISTING; THICK SOLID LINES ARE NEW.

SHEET NOTES

1. SWITCH BANK, 5 TOTAL – j, k, m, n, & p
2. RELOCATED CEILING RECESSED 1' X 4' FLUORESCENT LIGHT FIXTURE. PROVIDE MOUNTING KIT FOR MOUNTING TO GYPBOARD CEILING.
3. RELOCATED CEILING RECESSED 2' X 2' FLUORESCENT LIGHT FIXTURE.
4. RELOCATED CEILING RECESSED DOWNLIGHT.
5. NEW CEILING RECESSED 2' X 2' FLUORESCENT LIGHT FIXTURE: STEEL HOUSING, FLUSH STEEL DOOR FRAME, PATTERN 12 ACRYLIC LENS, FOUR (4) F17T8 LAMPS, ELECTRONIC PROGRAMMED STAR BALLAST, 277V. MANUFACTURER: COLUMBIA ST822-417F-FSA12-EPU
6. NEW CEILING RECESSED 1' X 4' FLUORESCENT LIGHT FIXTURE: STEEL HOUSING, FLUSH STEEL DOOR FRAME, PATTERN 12 ACRYLIC LENS, TWO (2) F32T8 LAMPS, ELECTRONIC PROGRAMMED STAR BALLAST, 277V. MANUFACTURER: COLUMBIA ST814-232F-FSA12-EPU
7. CONNECT TO EXISTING SWITCH/FIXTURE OUTLET. VERIFY EXISTING CONDITION IN THE FIELD.
8. NEW EXIT SIGN : LED EXIT SIGN, RED LETTERS ON WHITE BACKGROUND, UV STABLE THERMOPLASTIC HOUSING, DIRECTIONAL ARROWS, MOUNTING HARDWARE, AND 120/277 VOLTS. DUAL-LITE LX SERIES OR APPROVED EQUAL
9. EXISTING WIRING TO OTHER LIGHT FIXTURES AND WIRING HOMERUN.



1 Lighting Plan
SCALE: 1/4"= 1'-0"

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
FEB 25 2015
Office of Statewide Health Planning & Development
FACILITIES DEVELOPMENT DIVISION

OSHPD #S140671-41-00

RCG ARCHITECTURE
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REGISTERED ARCHITECT
#C- 11,242
Stamp: LICENSED ENGINEER ARSENIO ORTEGA NO. E11775 REN 9/30/16 STATE OF CALIFORNIA
1295.00
ARSENIO ORTEGA, P.E.
CONSULTING ENGINEER
9 Third Street, Suite 716
San Francisco, CA 94103
(415) 546-0490 tel -0491 fax

Revisions:	
BACKCHECK 1	1
BACKCHECK 2 01-20-15	2

LIGHTING PLAN
2ND FLOOR POST-OP RECOVERY
SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

PROJECT NUMBER 12941

Date: 05-01-14
Scale: AS SHOWN
Sheet No. E1.4 of:

GENERAL NOTES

1. EQUIPMENT SHOWN IN THIN SOLID LINES ARE EXISTING; THICK SOLID LINES ARE NEW.

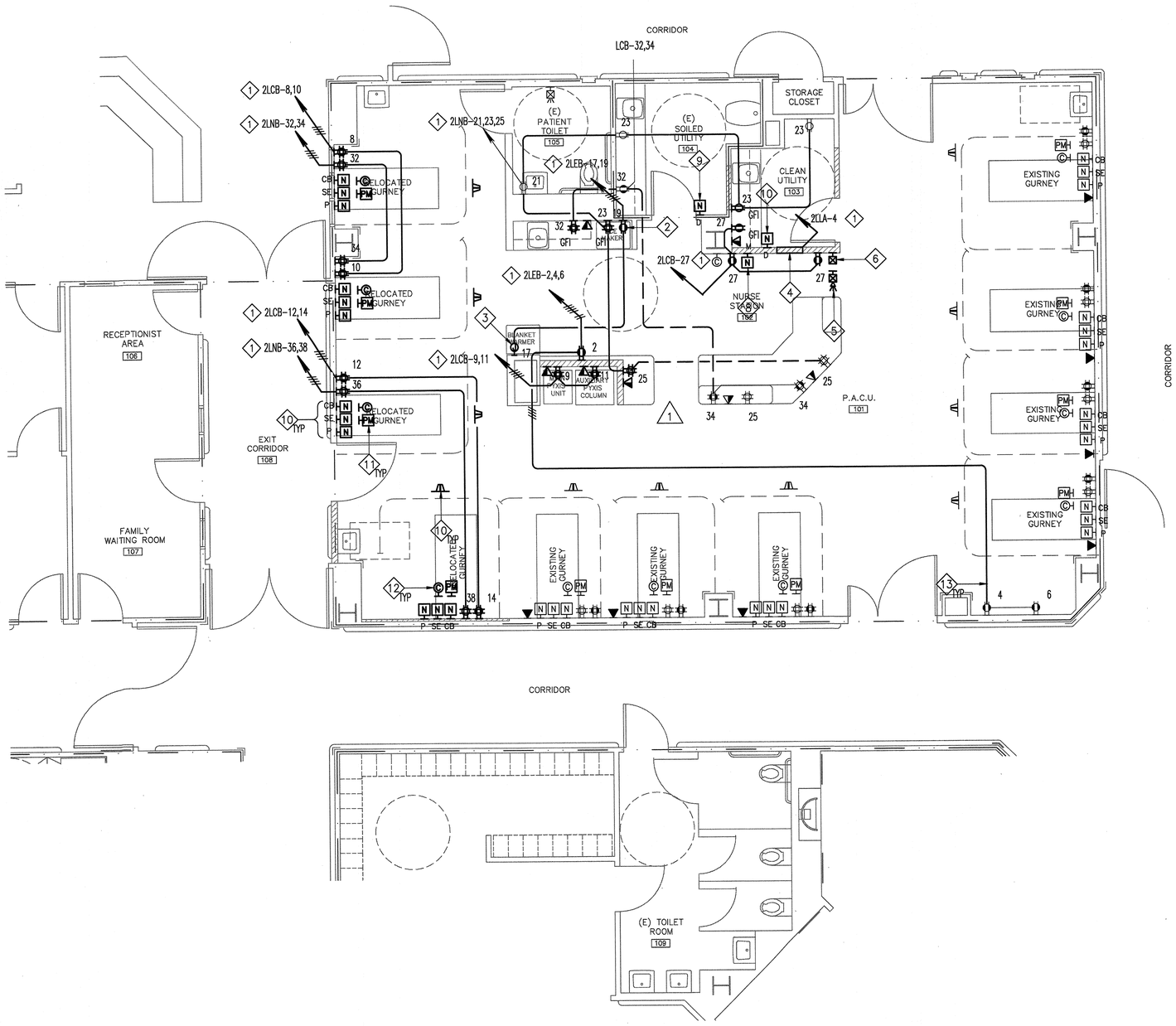
1 2. FIRE WATCH:

WHEN REQUIRED BY THE FIRE CODE OFFICIAL FOR BUILDING DEMOLITION THAT IS HAZARDOUS IN NATURE, QUALIFIED PERSONNEL SHALL BE PROVIDED TO SERVE AS AN ON-SITE FIRE WATCH. FIRE WATCH PERSONNEL SHALL BE PROVIDED WITH AT LEAST ONE APPROVED MEANS FOR NOTIFICATION OF THE FIRE DEPARTMENT AND THEIR SOLE DUTY SHALL BE TO PERFORM CONSTANT PATROLS AND WATCH FOR THE OCCURRENCE OF FIRE.

SEE OSHPD CODE APPLICATION NOTICE-14 (PIN-14) FOR ADDITIONAL REQUIREMENT. 2

SHEET NOTES

1. RE-USE EXISTING HOMERUN CONDUIT. PULL IN NEW WIRES AS REQUIRED. VERIFY EXISTING CONDITION IN THE FIELD.
2. FOR ICE MAKER.
3. CONNECT TO BLANKET WARMER.
1 4. RELOCATED MEDICAL GAS ALARM PANEL. EXTEND WIRING AS REQUIRED. [NOTE; PANEL WEIGHS LESS THAN 20 LBS.]
5. RELOCATED FIRE ALARM CHIME/STROBE. EXTEND WIRING AS REQUIRED.
6. RELOCATED FIRE ALARM PULL STATION. EXTEND WIRING AS REQUIRED.
1 7. NOT USED.
1 8. RELOCATED NURSE CALL MASTER STATION. EXTEND WIRING AS REQUIRED. [NOTE; PANEL WEIGHS LESS THAN 20 LBS.]
9. NEW NURSE CALL DUTY STATION TO MATCH EXISTING. CONNECT TO EXISTING SYSTEM. VERIFY IN THE FIELD.
10. RELOCATED NURSE CALL DEVICES - PATIENT STATIONS, STAFF EMERGENCY STATIONS, DUTY STATIONS, DOME LIGHTS. EXTEND WIRING AS REQUIRED.
11. NEW PHYSIOLOGICAL MONITOR OUTLET TO MATCH EXISTING. CONNECT TO EXISTING SYSTEM. CABLING SHALL MATCH EXISTING. VERIFY IN THE FIELD.
12. NEW CLOCK TO MATCH EXISTING. CONNECT TO EXISTING SYSTEM. VERIFY IN THE FIELD.
13. CONNECT TO EXISTING RECEPTACLE OUTLET. VERIFY EXISTING CONDITION IN THE FIELD.



1 Power & Signal Plan
SCALE: 1/4"= 1'-0"

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
FEB 25 2015
Office of Statewide Health Planning & Development
FACILITIES DEVELOPMENT DIVISION

OSHPD #S140671-41-00

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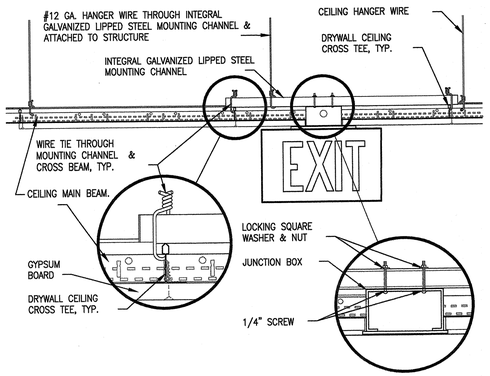
Revisions:	
BACKCHECK 1	1
BACKCHECK 2 01-20-15	2

POWER & SIGNAL PLAN
2ND FLOOR POST-OP RECOVERY
SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

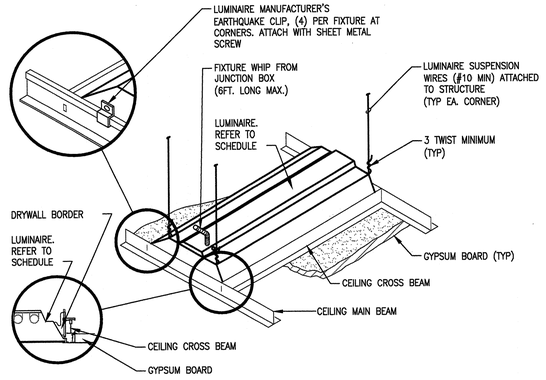
PROJECT NUMBER 12941

Date: 05-01-14
Scale: AS SHOWN
Sheet No. E1.5 of:



1 EXIT SIGN MOUNTING - GYPBOARD CEILING

SCALE: NTS



2 LUMINAIRE MOUNTING - GYPBOARD CEILING

SCALE: NTS

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
FEB 25 2015
Office of Statewide Health Planning & Development
FACILITIES DEVELOPMENT DIVISION

OSHPD #S140671-41-00

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STATE OF CALIFORNIA
1295.00

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Revisions:

BACKCHECK 1	1

DETAILS

2ND FLOOR POST-OP RECOVERY
SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

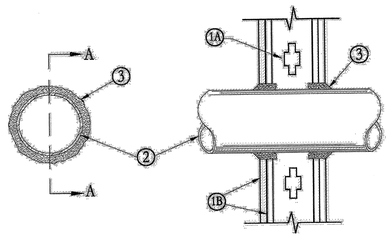
PROJECT NUMBER
12941

Date: 05-01-14
Scale: AS SHOWN
Sheet No.
E5.1
of:

System No. W-L-1001

June 15, 2005

F Rating–1, 2, 3 and 4 Hr (See Items 2 and 3)
T Rating– 0, 1, 2, 3, and 4 Hr (See Item 5)
L Rating At Ambient– less than 1 CFM/sq ft
L Rating At 400 F– less than 1 CFM/sq ft



SECTION A-A

1. **Wall Assembly**–The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs**–Wall framing may consist of either wood studs (max 2 hr fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber wall plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
   B. **Gypsum Board***–Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).
2. **Through Penetrant**–One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm) (point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. **Steel Pipe**–Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. **Iron Pipe**–Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) or Class 56 (or heavier) ductile iron pressure pipe.
   C. **Conduit**–Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
   D. **Copper Tubing**–Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. **Copper Pipe**–Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
   F. **Through Penetrating Product***–**Flexible Metal Piping**–The following types of steel flexible metal gas piping may be used:
      1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
      2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
      3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

1 THRU-WALL PENETRATION DETAIL
SCALE: Not to Scale

System No. W-L-1001 *continued*

3. **Fill, Void or Cavity Material***–**Caulk or Sealant**–Min 5/8, 1-1/4, 1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

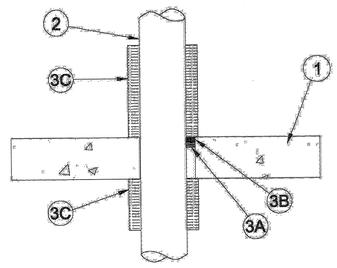
Max Pipe or Conduit Diam In. (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+When copper pipe is used, T Rating is 0 hr.

System No. C-AJ-1473

March 05, 2007

F Rating–2 Hr
T Rating–2 Hr
L Rating at Ambient–2 CFM/sq ft
L Rating at 400°F–Less than 1 CFM/sq ft
W Rating–Class 1 (See Item 3)

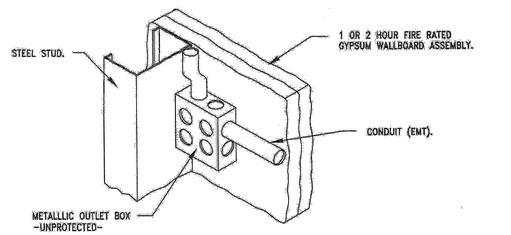


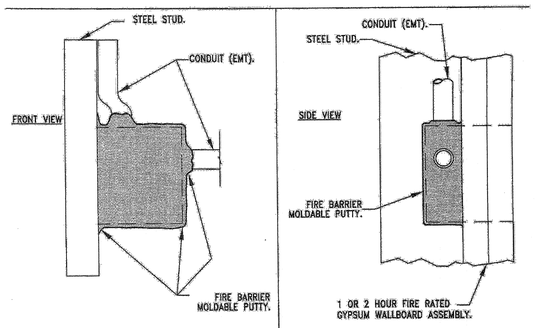
SECTION A-A

1. **Floor or Wall Assembly**–Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening 12-3/4 in. (324 mm).
1A. **Steel Sleeve**–(Optional, Not Shown) - Nom 12 in. (305 mm) diam (or smaller) sleeve fabricated from nom 0.079 in. (0.48 mm) thick galv steel cast or grouted into floor or wall assembly flush with floor or wall surfaces.
2. **Through Penetrant**–Through-Penetrant-One metallic pipe or tubing installed concentrically or eccentrically within opening. Annular space between penetrant and periphery of opening shall be min of 0 in. (0 mm) (point contact) to max 2 in. (51 mm). Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of penetrants may be used:
   A. **Steel Pipe**–Nom 10 in. (254 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. **Iron Pipe**–Nom 10 in. (254 mm) diam (or smaller) cast or ductile iron pipe.
   C. **Copper Tubing**–Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
   D. **Copper Pipe**–Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
   E. **Conduit**–Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
3. **Firestop System**–The details of the firestop system shall be as follows:
   A. **Packing Material**–Min 1 in. (25 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall to accommodate the required thickness of fill material. When optional steel sleeve is used, packing material to extend through floor or wall thickness except for recesses needed to accommodate fill material (Item 3B).
   B. **Fill, Void or Cavity Materials***–**Caulk, Sealant or Putty**–Min 1 in. (25 mm) thickness of caulk or putty applied within the annulus, flush with top surface of floor or with both surfaces of wall.
   C. **Duct Wrap Material***–Nom 2 in. (51 mm) thick duct wrap tightly wrapped around penetrant to extend 12 in. (305 mm) below floor and 36 in. (914 mm) above floor or 36 in. (914 mm) beyond both surfaces of wall. Longitudinal seams sealed with foil tape.

2 THRU-FLOOR/ROOF PENETRATION DETAIL
SCALE: Not to Scale

Installation for Fire Barrier Moldable Putty+ on Electrical Outlet Boxes





3 RECEPTACLE MOUNTING AT RATED WALL
SCALE: Not to Scale

UNDERWRITERS LABORATORIES INC.® CLASSIFIED WALL OPENING PROTECTIVE MATERIAL FIRE RESISTANCE CLASSIFICATION

Type MPF+ moldable putty pads for use with max 4-11/16 by 4-11/16 by 2-1/8 in. deep flush device UL Listed Metallic Outlet Boxes installed with steel cover plates for use in 1 or 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. wide wood or steel studs and constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory.

Type MPF+ moldable putty pads for use with max 4-11/16 by 4-11/16 by 2 1/8 in. deep flush device UL Listed Metallic Outlet Boxes installed with steel or plastic cover plates for use in 1 hr or 2 hr fire rated gypsum board wall assemblies framed with min 5-1/2 in. wide wood or steel studs and constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Metallic outlet boxes to be provided with steel attachment brackets which offset box min 1/4 in. from stud. Putty pad to be affixed to the back and all four sides of the box. Boxes may be installed back-to-back within the stud cavity. When back-to-back boxes are interconnected, a ball of putty is to be installed to plug the open end of each electrical metallic tube or conduit within the outlet boxes.

Type MPF+ moldable putty pads for use with max 4 by 4 by 2-1/8 in. deep flush device UL Listed Metallic Outlet Boxes installed with plastic cover plates for use in 1 or 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. wide wood or steel studs and constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory.

Type MPF+ moldable putty pads for use with max 4 by 4 by 2-1/2 in. deep flush device UL Listed Metallic Outlet Boxes installed with steel cover plates for use in 1 or 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. wide steel studs and constructed as specified in the individual U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory.

Type MPF+ moldable putty pads for use with max 4 by 4-1/2 by 2-1/2 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Carlon Electrical Products, made of PVC and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classified for Fire Resistance" category in the Fire Resistance Directory. Boxes installed with steel cover plates, for use in 1 or 2 hr rated gypsum board wall assemblies framed with min 3-1/2 in. wide wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory.

Type MPF+ moldable putty pads for use with max 4 by 3-1/4 by 3-3/4 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Thomas & Betts Corp., made of polycarbonate, Type 234 or made of phenolic, Type 1052 and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classified for Fire Resistance" category in the Fire Resistance Directory. Boxes installed with steel cover plates. For use in 1 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. wide wood studs and constructed as specified in the individual U300 series Wall and Partition Designs in the Fire Resistance Directory.

Type MPF+ moldable putty pads for use with max 4 by 3-3/4 by 3 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Carlon Electrical Products, made of PVC and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classified for Fire Resistance category in the Fire Resistance Directory. Boxes installed with plastic cover plates, for use in 1 hr rated gypsum board wall assemblies framed with min 3-1/2 in. wide wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory.

Type MPF+ moldable putty pads for use with max 4 by 3-1/4 by 3-3/4 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Thomas & Betts Corp., made of phenolic, Type 2002-2 and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classified for Fire Resistance" category in the Fire Resistance Directory. Boxes installed with steel cover plates. For use in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. wide steel studs and constructed as specified in the individual U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory.

Type MPF+ moldable putty pads for use with max 4 by 4 by 1-1/2 in. deep flush device UL Listed Metallic Outlet Boxes installed with plastic cover plates for use in 1 hr fire rated gypsum board wall assemblies framed with min 3-5/8 in. wide steel studs and constructed as specified in the individual U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Boxes may be installed back-to-back within the stud cavity.

Type MPF+ moldable putty pads for use with max 5 by 5 by 2-7/8 in. deep flush device UL Listed Metallic Outlet Boxes or UL Listed Communications-Circuit Accessories manufactured by RandL Industries Inc for use in 1 hr or 2 hr fire rated gypsum board wall assemblies framed with min 3-5/8 in. wide wood or steel studs and constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Metallic outlet boxes to be provided with UL Listed Signal Appliance with steel cover plate manufactured by Cooper Wheelock Inc.

Moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box except for the side of the outlet box against the stud unless otherwise noted) including nailing tabs and to completely seal against the stud within the stud cavity. Multiple moldable putty pads may be installed on an outlet box to attain the required minimum thickness of putty material. Additional putty material used to seal around each conduit and/or cable fitting on the exterior of each box. A min 1/10 in. thickness of putty material is required on the exterior surfaces of flush device boxes in 1 and 2 hr fire rated Wall and Partition Designs. When the moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the outlet boxes are not installed back to back, except as noted.

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
FEB 25 2015
Office of Statewide Health Planning & Development
FACILITIES DEVELOPMENT DIVISION
10

OSHPD #S140671-41-00

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Revisions:
BACKCHECK 1 — 1

DETAILS
2ND FLOOR POST–OP RECOVERY
SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

PROJECT NUMBER 12941

Date: 05–01–14
Scale: AS SHOWN
Sheet No. E5.2 of:

PANEL 2LNB Sec 1 (EXISTING)

LOCATION ELEC RM — BRANCH NORMAL POWER — VOLTAGE 120/208V, 3Ø, 4W — IC RATING 10,000 AIC

DESCRIPTION	TOTAL KVA ø A	ø B	ø C	CB	CKT		CKT	CB	TOTAL KVA			DESCRIPTION
(E) REC	–			20A	1		2	20A	–			(E) REC
(E) REC		–		20A	3		4	20A		–		(E) REC
(E) REC			–	20A	5		6	20A			–	(E) REC
(E) REC – PAR	–			20A	7		8	20A	–			(E) REC
(E) REC – PAR		–		20A	9		10	20A		–		(E) REC
(E) REC – PAR			–	20A	11		12	20A			–	(E) REC
(E) REC – PAR	–			20A	13		14	20A	–			(E) REC
(E) REC – PAR		–		20A	15		16	20A		–		(E) REC
(E) REC – PAR			–	20A	17		18	20A			–	(E) REC
(E) REC – PAR	–			20A	19		20	20A	–			(E) REC
NEW REC – PACU [2]		0.18		20A	21		22	20A		–		(E) REC – COFFEE MAKER
NEW REC – PACU [2]			0.90	20A	23		24	20A			–	(E) REC – MICROWAVE
NEW REC – PACU [2]	0.72			20A	25		26	20A	–			(E) REC
(E) REC		–		20A	27		28	20A		–		(E) REC
(E) REC			–	20A	29		30	20A			–	(E) REC
(E) REC	–			20A	31		32	20A	0.36			NEW REC – PACU [2]
(E) REC		–		20A	33		34	20A		0.36		NEW REC – PACU [2]
(E) REC			–	20A	35		36	20A			0.36	NEW REC – PACU [2]
(E) REC	–			20A	37		38	20A	0.36			NEW REC – PACU [2]
(E) REC		–		20A	39		40	20A		–		(E) EWC
(E) REC – ELEC RM			–	20A	41		42	20A			–	(E) REC

TRIM STYLE: ☐ FLUSH ☒ SURFACE
BUS RATING: ☐ 100 A ☐ 200 A ☒ 225 A ☐ 400 A
☒ MAIN CB 225A/3P
☐ MAIN LUGS ONLY ☒ FEED–THROUGH LUGS ☐ SUB–FEED LUGS
NOTE: [1] THERE IS NO LOAD INCREASE. RECEPTACLES OR EQUIPMENT ARE RELOCATED AND/OR REPLACED IN KIND.
[2] CONNECT TO EXISTING CIRCUIT BREAKER.

TOTAL CONNECTED LOAD
ø A –
ø B –
ø C –
TOTAL SEE NOTE [1]

PANEL 2LCB (EXISTING)

LOCATION ELEC RM — BRANCH CRITICAL BRANCH — VOLTAGE 120/208V, 3Ø, 4W — IC RATING 10,000 AIC

DESCRIPTION	TOTAL KVA ø A	ø B	ø C	CB	CKT		CKT	CB	TOTAL KVA			DESCRIPTION
(E) REC	–			20A	1		2	20A	–			(E) REC
(E) REC		–		20A	3		4	20A		–		(E) REC
(E) REC – PAR			–	20A	5		6	20A			–	(E) REC
(E) REC	–			20A	7		8	20A	0.36			NEW REC – PACU [2]
NEW REC – PYXIS [2]		0.36		20A	9		10	20A		0.36		NEW REC – PACU [2]
NEW REC – PYXIS [2]			0.36	20A	11		12	20A			0.36	NEW REC – PACU [2]
(E) REC	–			20A	13		14	20A	0.36			NEW REC – PACU [2]
SPARE		–		20A	15		16	20A		–		(E) REC – PAR
SPARE			–	20A	17		18	20A			–	(E) REC – PAR
(E) IG REC	–			20A	19		20	20A	–			(E) REC – PAR
(E) IG REC		–		20A	21		22	20A		–		(E) REC – PAR
(E) IG REC			–	20A	23		24	20A			–	(E) REC – PAR
(E) IG REC	–			20A	25		26	20A	–			(E) REC – PAR
NEW REC – PACU [2]		0.54		20A	27		28	20A		–		SPARE
(E) REC – FUT STERI			–	20A	29		30	20A			–	(E) REC
SPARE	–			20A	31		32	20A	0.54			NEW REC – PACU [2]
(E) CARD READER		–		20A	33		34	20A		–		(E) IG REC
SPARE			–	20A	35		36	20A			–	SPARE
SPARE	–			20A	37		38	20A	–			SPARE
SPARE		–		20A	39		40	20A		–		SPARE
SPARE			–	20A	41		42	20A			–	(E) PTS 25U046

TRIM STYLE: ☐ FLUSH ☒ SURFACE
BUS RATING: ☐ 100 A ☐ 200 A ☒ 225 A ☐ 400 A
☒ MAIN CB 100A/3P
☐ MAIN LUGS ONLY ☐ FEED–THROUGH LUGS ☐ SUB–FEED LUGS
NOTE: [1] THERE IS NO LOAD INCREASE. RECEPTACLES OR EQUIPMENT ARE RELOCATED AND/OR REPLACED IN KIND.
[2] CONNECT TO EXISTING CIRCUIT BREAKER.

TOTAL CONNECTED LOAD
ø A –
ø B –
ø C –
TOTAL SEE NOTE [1]

PANEL 2LEB Sec 1 (EXISTING)

LOCATION ELEC RM — BRANCH EQUIPMENT BRANCH — VOLTAGE 120/208V, 3Ø, 4W — IC RATING 10,000 AIC

DESCRIPTION	TOTAL KVA ø A	ø B	ø C	CB	CKT		CKT	CB	TOTAL KVA			DESCRIPTION
SPARE	–			15A	1		2	20A	0.18			NEW REC – PACU [2]
		–		2P	3		4	20A		–		(E) VENTILATOR
(E) REC			–	20A	5		6	20A			–	(E) PT WARMER
(E) DOOR OPERATOR	–			20A	7		8	20A	–			(E) REC
SPARE		–		15A	9		10	20A		–		(E) ELECTRIC FAUCET
			–	2P	11		12	20A			–	(E) SCOPE WASHER
(E) REC	–			20A	13		14	20A	–			(E) SCRUB SINK
(E) REC		–		20A	15		16	20A		–		(E) WARMING CABINET
NEW REC – WARMING CABINET			1.20	20A	17		18	20A			–	SPARE
NEW REC – ICE MAKER	1.00			20A	19		20	20A	–			(E) SAFELIGHT (2SU015)
(E) REC – CORRIDOR		–		20A	21		22	20A		–		(E) DOOR OPERATOR
(E) REC – CORRIDOR			–	20A	23		24	20A			–	(E) SCRUB SINK
(E) CRYOSTAT	–			20A	25		26	20A	–			(E) SCRUB SINK
(E) U/C REF		–		20A	27		28	20A		–		(E) WARMING CABINET
(E) AUTOPSY WORKSTATION			–	20A	29		30	20A			–	(E) STEAM STER CONTROL
(E) REC	–			20A	31		32	20A	–			(E) DOOR OPERATOR
SPARE		–		20A	33		34	20A		–		(E) DOOR OPERATOR
(E) REC			–	20A	35		36	20A			–	(E) DOOR OPERATOR
(E) C–ARM	–			20A	37		38	20A	–			(E) STEAM STERILIZER
(E) AMX MONITOR		–		20A	39		40	20A		–		(E) HEAT SEALER
(E) FILM PROCESSOR			–	20A	41		42	20A			–	(E) DOOR OPERATOR

TRIM STYLE: ☐ FLUSH ☒ SURFACE
BUS RATING: ☐ 100 A ☐ 200 A ☒ 225 A ☐ 400 A
☒ MAIN CB 150A/3P
☐ MAIN LUGS ONLY ☒ FEED–THROUGH LUGS ☐ SUB–FEED LUGS
NOTE: [1] THERE IS NO LOAD INCREASE. RECEPTACLES OR EQUIPMENT ARE RELOCATED AND/OR REPLACED IN KIND.
[2] CONNECT TO EXISTING CIRCUIT BREAKER.

TOTAL CONNECTED LOAD
ø A –
ø B –
ø C –
TOTAL SEE NOTE [1]

LOAD CALCULATIONS

* ALL PANELS HAVE MINIMUM OF 1000 A FCB.

PANEL 2LNB
EXISTING LOAD, MEASURED X 125% (10/08 – 10/14/14) = 8.80 A
NEW LOAD =– 0.00
TOTAL DEMAND LOAD = 8.80 A

PANEL 2LCB
EXISTING LOAD, MEASURED X 125% (09/17 – 09/23/14) = 22.38 A
NEW LOAD =– 0.00
TOTAL DEMAND LOAD = 22.38 A

PANEL 2LEB
EXISTING LOAD, MEASURED X 125% (12/18 – 12/21/13) = 64.88 A
NEW LOAD =– 0.00
TOTAL DEMAND LOAD = 64.88 A

PANEL 2HNB
EXISTING LOAD, MEASURED X 125% (10/09 – 10/11/14) = 19.50 A
NEW LOAD =– 0.12
TOTAL DEMAND LOAD = 19.62 A

PANEL 2HLA
EXISTING LOAD, MEASURED X 125% (10/16 – 10/19/14) = 36.25 A
NEW LOAD =– 0.04
TOTAL DEMAND LOAD = 36.29 A

PANEL 2HCA
EXISTING LOAD, MEASURED X 125% (10/16 – 10/19/14) = 36.25 A
NEW LOAD =– 0.12
TOTAL DEMAND LOAD = 36.37 A

NOTES:
[1] THE LEVEL TWO PANEL, ITS FEEDER AND FEEDER OVERCURRENT PROTECTIVE DEVICE HAVE BEEN CHECKED AND THAT SUFFICIENT LOAD CAPACITY EXISTS AT THIS POINT IN THE ELECTRICAL DISTRIBUTION SYSTEM.

PANEL 2HNB (EXISTING)

LOCATION ELEC RM — BRANCH NORMAL POWER — VOLTAGE 277/480V, 3Ø, 4W — IC RATING 14,000 AIC

DESCRIPTION	TOTAL KVA ø A	ø B	ø C	CB	CKT		CKT	CB	TOTAL KVA			DESCRIPTION
EXISTING + NEW LTS	2.20 + 0.10			20A	1		2	20A	–			SPARE
(E) LTS		–		20A	3		4	20A		–		SPARE
(E) LTS			–	20A	5		6	20A			–	SPARE
SPARE	–			20A	7		8	20A	–			SPARE
(E) LTS		–		20A	9		10	20A		–		SPARE
(E) LTS			–	20A	11		12	20A			–	SPARE
SPARE	–			20A	13		14	20A	–			SPARE
SPARE		–		20A	15		16	20A		–		SPARE
SPARE			–	20A	17		18	20A			–	SPARE
SPACE	–			–	19		20	20A	–			SPARE
SPACE		–		–	21		22	3P		–		
SPACE			–	–	23		24	–			–	
SPACE	–			–	25		26	20A	–			SPARE
SPACE		–		–	27		28	3P		–		
SPACE			–	–	29		30	–			–	
SPACE	–			–	31		32	–	–			SPACE
SPACE		–		–	33		34	–		–		SPACE
SPACE			–	–	35		36	–			–	SPACE
SPACE	–			–	37		38	125A	–			TRANSF 2TNB
SPACE		–		–	39		40	3P		–		
SPACE			–	–	41		42	–			–	

TRIM STYLE: ☐ FLUSH ☒ SURFACE
BUS RATING: ☐ 100 A ☐ 200 A ☒ 225 A ☐ 400 A
☐ MAIN CB
☒ MAIN LUGS ONLY ☐ FEED–THROUGH LUGS ☐ SUB–FEED LUGS
NOTE:

TOTAL CONNECTED LOAD
ø A 0.10 KVA (ADDED)
ø B –
ø C –
TOTAL 0.10 KVA (ADDED)

PANEL 2HLA (EXISTING)

LOCATION ELEC RM — BRANCH LIFE SAFETY BRANCH — VOLTAGE 277/480V, 3Ø, 4W — IC RATING 14,000 AIC

DESCRIPTION	TOTAL KVA ø A	ø B	ø C	CB	CKT		CKT	CB	TOTAL KVA			DESCRIPTION
(E) LTS – CORRIDOR	–			20A	1		2	20A	–			SPARE
EXISTING + NEW LTS – EXITS	1.00 + 0.03			20A	3		4	20A		–		SPARE
(E) LTS – CORRIDOR			–	20A	5		6	20A			–	SPARE
SPARE	–			20A	7		8	20A	–			SPARE
SPARE		–		20A	9		10	20A		–		SPARE
SPARE			–	20A	11		12	20A			–	SPARE
SPARE	–			20A	13		14	20A	–			SPARE
SPARE		–		20A	15		16	20A		–		SPARE
SPARE			–	20A	17		18	20A			–	SPARE
SPACE	–			–	19		20	–	–			SPACE
SPACE		–		–	21		22	–		–		SPACE
SPACE			–	–	23		24	–			–	SPACE
SPACE	–			–	25		26	–	–			SPACE
SPACE		–		–	27		28	–		–		SPACE
SPACE			–	–	29		30	–			–	SPACE
SPACE	–			–	31		32	–	–			SPACE
SPACE		–		–	33		34	–		–		SPACE
SPACE			–	–	35		36	–			–	SPACE
SPACE	–			–	37		38	50A	–			TRANSF 2TLA
SPACE		–		–	39		40	3P		–		
SPACE			–	–	41		42	–			–	

TRIM STYLE: ☐ FLUSH ☒ SURFACE
BUS RATING: ☐ 100 A ☐ 200 A ☒ 225 A ☐ 400 A
☒ MAIN CB 70A/3P
☐ MAIN LUGS ONLY ☐ FEED–THROUGH LUGS ☐ SUB–FEED LUGS
NOTE:

TOTAL CONNECTED LOAD
ø A –
ø B 0.03 KVA (ADDED)
ø C –
TOTAL 0.03 KVA (ADDED)

PANEL 2HCA (EXISTING)

LOCATION ELEC RM — BRANCH CRITICAL BRANCH — VOLTAGE 277/480V, 3Ø, 4W — IC RATING 14,000 AIC

DESCRIPTION	TOTAL KVA ø A	ø B	ø C	CB	CKT		CKT	CB	TOTAL KVA			DESCRIPTION
(E) LTS	–			20A	1		2	20A	–			(E) LTS
(E) LTS		–		20A	3		4	20A		–		SPARE
(E) LTS – ELEC/MECH RM			–	20A	5		6	20A			–	SPARE
(E) LTS – ELEC/TEL RM	–			20A	7		8	20A	–			SPARE
(E) LTS				20A	9		10	20A		–		SPARE
EXISTING + NEW LTS	2.08 + 0.10			20A	11		12	20A			–	SPARE
SPARE		–		20A	13		14	20A	–			SPARE
SPARE			–	20A	15		16	20A		–		SPARE
SPARE			–	20A	17		18	20A			–	SPARE
SPARE	–			20A	19		20	20A	–			SPARE
SPARE		–		20A	21		22	–		–		SPACE
SPACE			–	–	23		24	–			–	SPACE
SPACE	–			–	25		26	–	–			SPACE
SPACE		–		–	27		28	–		–		SPACE
SPACE			–	–	29		30	–			–	SPACE
(E) PANEL 2P2	–			30A	31		32	30A	–			(E) PANEL 2P1
(E) PANEL 2P4		–		30A	33		34	30A		–		(E) PANEL 2P3
(E) PANEL 2P6			–	30A	35		36	30A			–	(E) PANEL 2P5
SPACE	–			–	37		38	70A	–			TRANSF 2TCA
SPACE		–		–	39		40	3P		–		
SPACE			–	–	41		42	–			–	

TRIM STYLE: ☐ FLUSH ☒ SURFACE
BUS RATING: ☐ 100 A ☐ 200 A ☒ 225 A ☐ 400 A
☒ MAIN CB 225A/3P
☐ MAIN LUGS ONLY ☐ FEED–THROUGH LUGS ☐ SUB–FEED LUGS
NOTE:

TOTAL CONNECTED LOAD
ø A –
ø B –
ø C 0.10 KVA (ADDED)
TOTAL 0.10 KVA (ADDED)

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
FEB 25 2015
Office of Statewide Health Planning & Development
FACILITIES DEVELOPMENT DIVISION

OSHPD #S140671-41-00

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Revisions:
BACKCHECK 1 — 1
BACKCHECK 2 01–20–15 — 2

PANEL SCHEDULES
2ND FLOOR POST–OP RECOVERY
SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

PROJECT NUMBER 12941

Date: 05–01–14
Scale: AS SHOWN
Sheet No. E6.1 of:

TO 12KV SWITCHGEAR
SEE SHEET E1 FOR CONTINUATION

TO PARALLELING & DISTRIBUTION SWITCHBOARD "EDPS"
SEE SHEET E2 FOR CONTINUATION

SUBSTATION NO.1
12KV PRI – 480/277V, 3ø, 4W & G

TRANSF 1500KVA

1600AT 2000AF 3P

1600/5

TVSS

1600A, 480/277 V, 3ø, 4W + G

SPACES

800AT 800AF 3P | 800AT 800AF 3P | 225AT 800AF 3P | 800AT 800AF 3P | 800AT 800AF 3P | 800AT 800AF 3P

GFR

EMERG DIST SWITCHBOARD EMSB–DT

1200AT 1600AF 3P

TVSS

1200A, 480/277V, 3ø, 4W+G

225AT 800AF 3P | 800AT 800AF 3P | 800AT 800AF 3P | 800AT 800AF 3P

SPACES

ATS–L 225A/4P 480/277V

ATS–C 600A/4P 480/277V

ATS–E1 800A/4P 480/277V

ATS–E2 800A/4P 480/277V

NORMAL BRANCH
DISTRIBUTION PANEL 1HDNA

800A, 480/277V, 3ø, 4W + G

800AT 800AF 3P

225AT 225AF 3P | 225AT 225AF 3P | 225AT 225AF 3P | 100AF/3P SPACES

PNL 1HNA | PNL 2HNA | PNL 1HNC

1TNA 75 KVA 480V–208Y/120V

2TNA 75 KVA 480V–208Y/120V

1TNC 75 KVA 208Y/120V

PNL 1LNA (SEC1) PNL 1LNA (SEC2)

PNL 2LNA (SEC1) PNL 2LNA (SEC2)

PNL 1LNC (SEC1) PNL 1LNC (SEC2)

CRITICAL BRANCH
DISTRIBUTION PANEL 1HDC

600A, 480/277V, 3ø, 4W + G

600AT 600AF 3P

225AT 225AF 3P | 70AT 100AF 3P | 225AT 225AF 3P | 100AF/3P SPACES

PNL 1HCA | PNL 1IP1

1TCA 45KVA 480V–208/120V

1TCC 45KVA 480V–208/120V

2TCA 45KVA 480V–208/120V

PNL 2HCA

PNL 2IP1 | PNL 2IP2 | PNL 2IP3 | PNL 2IP4 | PNL 2IP5 | PNL 2IP6

PNL 1LCA | PNL 1LCB | PNL 1LCC | PNL 2LCA | PNL 2LCB

EQUIPMENT BRANCH
DISTRIBUTION PANEL 1HDE2

800AT 800AF 3P

800A, 480/277V, 3ø, 4W + G

60AT 100AF 3P | 60AT 100AF 3P | 100AF/3P SPACES

X–RAY 80KW RAD./ FLUORO. RM. #1

X–RAY 80KW RAD./ RM #4

CT–SCAN 80KW

LIFE SAFETY BRANCH

PNL 2HLA | PNL 1HLA

2TLA 30KVA 480V–208/120V

1TLA 30KVA 480V–208/120V

PNL 2LLA | PNL 1LLA

NORMAL BRANCH
DISTRIBUTION PANEL 1HDNB

800A, 480/277V, 3ø, 4W + G

800AT 800AF 3P

225AT 225AF 3P | 225AT 225AF 3P | 80AT 100AF 3P | 150AT 125AF 3P | 100AF/3P SPACES

PNL 1HNB | PNL 2HNB

1TNB 75KVA 480V–208/120V

2TNB 75KVA 480V–208/120V

X–RAY RAD./ RM #2

X–RAY RAD./ RM #3

PNL 1LNB (SEC1) PNL 1LNB (SEC2)

PNL 2LNB (SEC1) PNL 2LNB (SEC2)

EQUIPMENT BRANCH
DISTRIBUTION PANEL 1HDE1

800A, 480/277V, 3ø, 4W + G

800AT 800AF 3P

150AT 225AF 3P | 150AT 225AF 3P | 70AT 225AF 3P | 70AT 100AF 3P | 100AT 225AF 3P | 100AT 225AF 3P | 40AT 100AF 3P | 40AT 100AF 3P | 15AT 100AF 3P | 20AT 100AF 3P SPARE | 400AT 600AF 3P | 15AT 100AF 3P | 20AT 100AF 3P | 15AT 100AF 3P | 15AT 100AF 3P | 100AF/3P SPACES

PNL 1HEA | PNL 2HEA

ELEV 1 75HP | ELEV 2 75HP | DTHWP–1 15HP | DTHWP–2 15HP | CP–1 0.5HP | CP–2 0.5HP

DTAHU–5 5HP

AIR COMP AC–1 TWO @ 3HP

1HP EACH CONDENSATE PUMP DTCRP–1

1TEA 75KVA 480V–208/120V

2TEA 45KVA 480V–208/120V

2TEB 45KVA 480V–208/120V

1TEC 45KVA 480V–208/120V

PNL 2LEA SEC1 | PNL 2LEA SEC2

PNL 2LEB SEC1 | PNL 2LEB SEC2

PNL 1LEC

PNL 1LEA–A

PNL 1LEA SEC2 | PNL 1LEA SEC1

PNL 1LEB SEC1 | PNL 1LEB SEC2

EQUIPMENT BRANCH
DISTRIBUTION PANEL 2HDE

600A, 480V, 3ø, 3W + G

400AT 600AF 3P

100AT 100AF 3P | 20AT 100AF 3P | 70AT 100AF 3P | 20AT 100AF 3P | 70AT 100AF 3P | 30AT 100AF 3P | 100AT 100AF 3P | 30AT 100AF 3P | 20AT 100AF 3P | 15AT 100AF 3P | 20AT 100AF 3P | 15AT 100AF 3P | 15AT 100AF 3P | 20AT 100AF 3P | 100AF/3P SPACES

SUPPLY FAN 40HP | RETURN FAN 7.5HP | SUPPLY FAN 30HP | RETURN FAN 7.5HP | SUPPLY FAN 30HP | RETURN FAN 10HP | SUPPLY FAN 40HP | RETURN FAN 10HP | DTEF–1 5HP | DTEF–2 1.5HP | DTEF–3 7.5HP | DTEF–4 1HP | DTEF–5 3HP | DTEF–6 7.5HP

NOTE: ALL EQUIPMENT SHOWN ARE EXISTING

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR.
APPROVED
FEB 25 2015
Office of Statewide Health Planning & Development
FACILITIES DEVELOPMENT DIVISION
12

OSHPD #S140671-41-00

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ROBERT C. COOYER, AIA, FHFI
REGISTERED ARCHITECT
#C\ – 011,242

Stamp:
LICENSED ENGINEER
ARSENIO ORTEGA
NO. E11775
RE\ 9/30/16
STATE OF CALIFORNIA
1295.00

ARSENIO ORTEGA, P.E.
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Revisions:
BACKCHECK 1 | 1

SINGLE LINE DIAGRAM
2ND FLOOR POST–OP RECOVERY
SAN MATEO MEDICAL CENTER
222 West 39th Avenue San Mateo, CA 94403

PROJECT NUMBER
12941

Date: 05–01–14
Scale: AS SHOWN
Sheet No.
E6.2
of: