# TCMC ANGIO TO CATH LAB RENOVATION

# TRI-CITY MEDICAL CENTER

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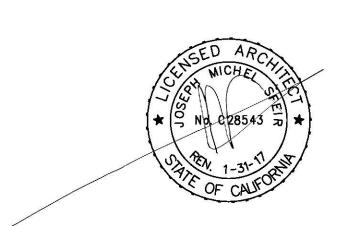
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#### **ABBREVIATIONS:** SEISMIC BRACING ACOUSTICAL CEILING TILE HORIZONTAL SEISMIC BRACING - CBC 2016 CHAPTER 16A/ASCE 7-10 HVAC DUCTWORK, **ALUMINUM** INSIDE DIAMETER A PLUMBING/ PIPING AND CONDUIT SYSTEMS. **ALTERNATE** INSUL INSULATION ACCESS PANE INTERIOR ALL PIPES, DUCTS AND CONDUIT SHALL BE BRACED TO RESIST THE FORCES ARCH **ARCHITECT** JAN JANITOR PRESCRIBED IN 2016 CBC CHAPTER 16A/ASCE 7-10. DUCTWORK SHALL BE BOARD LAMINATE CONSTRUCTED IN ACCORDANCE WITH PROVISIONS CONTAINED IN PART 4, TITLE BLDG BUILDING LLH LONG LEG HORIZONTAL 24, CALIFORNIA MECHANICAL CODE. WHERE POSSIBLE, PIPES, CONDUIT, AND BLK'G BLOCKING LLV LONG LEG VERTICAL LGT WGT LIGHT WEIGHT DUCTILE IRON, STEEL OR ALUMINUM AND BRAZED, WELDED OR SCREWED MAX MAXIMUM CONNECTIONS). PIPES, CONDUITS AND THEIR CONNECTIONS, CONSTRUCTED OF CABINET MECH **MECHANICAL** NONDUCTILE MATERIALS (E.G., CAST IRON, NO-HUB PIPE AND PLASTIC), SHALL CARPET MINIMUM MIN MISC NIC NO/# HAVE THE BRACE SPACING REDUCED TO SATISFY REQUIREMENTS OF ASCE 7-10 CEM CEMENT MISCELLANEOUS **CERAMIC TILE** NOT IN CONTRACT CHAPTER 13 AND NOT TO EXCEED ONE-HALF OF THE SPACING ALLOWED FOR CEILING NUMBER DUCTILE MATERIALS. NTS NR CLEAR NOT TO SCALE NOT RATED SEISMIC SUPPORTS ARE NOT REUIRED FOR HVAC DUCTWORK WITH L= 1.5 IF COUNTER OC OD COL COLUMN ON CENTER CONSTR CONSTRUCTION **OUTSIDE DIAMETER** CONT CONTINUOUS **OPNG OPENING** CORR CORRIDOR OPP OPPOSITE DOUBLE PLATE/PROPERTY LINE PLASTIC LAMINATE DEPARTMENT PL LAM DRINKING FOUNTAIN PLWD PLYWOOD THE DUCTWORK IS SUPPORTED BY HANGERS AND EACH HANGER IN THE DIAMETER POL POLISHED DUCT RUN IS 12" OR LESS IN LENGTH FORM THE DUCT SUPPORT POINT TO DIMENSION PR THE SUPPORTING STRUCTURE. WHERE ROD HANGERS ARE USED WITH A PRESSURE TREATED DISPENSE DOWN PAINTED PREVENT INELASTIC BENDING IN THE ROD. DRAIN QUANTIT' DETAIL **RADIUS** DRAWING DWG **ROOF DRAIN** DWR DRAWER EACH REINF REINFORCING SUCH, AND HVAC DUCTS HAVE A CROSS-SECTION AREA OF 6 FT2 OR LESS, OR WEIGH 10 LB/FT OR LESS. **EXPANSION JOINT** RM ROOM HVAC DUCT SYSTEMS FABRICATED AND INSTALLED IN ACCORDANCE WITH RO RUB **ELECTRICAL ROUGH OPENING** ENCL **ENCLOSURE** RUBBER STANDARDS APPROVED BY THE AUTHORITY HAVING JURISDICTION SHALL BE SOLID CORE DEEMED TO MEET THE LATERAL BRACING REQUIREMENTS OF THIS SECTIONS **FACH WAY** SCHED SCHEDULE **ELECT WATER COOLER** SHOWER EXG OPERATING WEIGHT GREATER THAN 75 LB (334N) SUCH AS FANS HEAT EXISTING SHEET SIM SMS **ETR** EXISTING TO REMAIN SIMILAR **EXTERIOR** SHEET METAL SCREW FLOOR DRAIN **SPECIFICATIONS** REQUIREMENTS OF SECTION CBC CH. 16A. APPURTENANCES SUCH AS DAMPERS, FIRE EXTINGUISHER CAB. SQUARE LOUVERS, AND DIFFUSERS SHALL BE POSITIVELY ATTACHED WITH MECHANICAL FIRE HOSE CABINET ST STL STAINLESS STEEL FASTENERS. UNBRACED PIPING ATTACHED TO IN-LINE EQUIPMENT SHALL BE STANDARD FINISH PROVIDED WITH ADEQUATE FLEXIBILITY TO ACCOMMODATE DIFFERENTIAL FIXT **FIXTURE** STOR STORAGE DISPLACEMENTS. FLOOR STRUCT STRUCTUR PIPING SYSTEMS SHALL SATISFY THE REQUIREMENTS OF THIS SECTION EXCEPT **FURRING** SUSPENDED FIELD VERIFY **TELEPHONE** CBC 1616A.1.26. TEMP **GAUGE** TEMPORARY GAI VANIZEI THK THICK EXCEPT FOR PIPING DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH NFPA GRAB BAR 13, SEISMIC SUPPORTS SHALL NOT BE REQUIRED FOR OTHER PIPING SYSTEMS UON VCT UNLESS OTHERWISE NOTED GLASS. GYPSUM VINYL COMPOSITE TILE WHERE ONE OF THE FOLLOWING CONDITIONS IS MET: **VERT HDR HEADER VERTICAL** PIPING IS SUPPORTED BY ROD HANGERS: HANGERS IN THE PIPE RUN HDWD HARDWOOD VEST **VESTIBULE HDWR** HARDWARE W/ WITH THE SUPPORTING STRUCTURE; HANGERS ARE DETAILED TO AVOID HGT HEIGHT WD WOOD BENDING OF THE HANGERS AND THEIR ATTACHMENTS: AND WITHOU PROVISIONS ARE MADE FOR PIPING TO ACCOMMODATE EXPECTED DEFLECTIONS. INTERIM LIFE SAFETY MEASURES HIGH-DEFORMABILITY PIPING IS USED; PROVISIONS ARE MADE TO AVOID IMPACT WITH LARGER PIPING OR MECHANICAL COMPONENTS ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT USE OF A KEY FOLLOWING SIZE REQUIREMENTS ARE SATISFIED: OR ANY SPECIAL KNOWLEDGE OR EFFORT. PANIC HARDWARE AT EXITS SHALL BE PROVIDED AS REQUIRED BY THE CODE. FOR SEISMIC DESIGN CATEGORIES D. E. OR F WHERE ID IS GREATER THAN 1.0, THE NOMINAL PIPE SIZE SHALL BE 1 IN. (25 PRIOR TO THE START OF WORK CONSULT WITH FIELD FIRE MARSHAL ON AN MM) OR LESS. ACCEPTABLE EXITING ARRANGEMENT. A FIRE WATCH MAY BE REQUIRED AT THE DISCRETION OF THE FIRE MARSHAL. INTERIM LIFE SAFETY MEASURES ARE REQUIRED TO TEMPORARILY COMPENSATE FOR THE DEFICIENCIES IN NORMAL TO 1.0, THE NOMINAL PIPE SIZE SHALL BE 3 IN. (76 MM) OR LESS. LIFE SAFETY REQUIREMENTS DUE TO THE ACTIVITIES AND SHALL MEET A REQUIREMENTS OF OSHPD CAN 9-3301. WHERE LATERAL RESTRAINTS ARE OMITTED. THE PIPING. DUCTS OR CONDUIT SHALL BE INSTALLED SUCH THAT LATERAL MOTION OF THE PIPING OR DUCT WILL ENSURE THAT THE EXITS PROVIDE FREE AND UNOBSTRUCTED EGRESS. NOT CAUSE DAMAGING IMPACT WITH OTHER SYSTEMS OR STRUCTURAL PERSONNEL SHALL RECEIVE TRAINING IF ALTERNATE EXITS MUST BE DESIGNATED. MEMBERS, OR LOSS OF VERTICAL SUPPORT. AREAS UNDER CONSTRUCTION MUST MAINTAIN ESCAPE FACILITIES FOF CONSTRUCTION WORKERS AT ALL TIMES. MEANS OF EGRESS MUST BE ALL TRAPEZE ASSEMBLIES SUPPORTING PIPES, DUCTS AND CONDUIT SHALL BE BRACED TO RESIST THE FORCES OF CHAPTER 16A/ASCE 7, CONSIDERING THE TOTAL WEIGHT OF THE ELEMENTS ON THE TRAPEZE. ENSURE THAT FIRE ALARM, DETECTION & SUPPRESSION SYSTEMS ARE NOT ELEMENTS WOULD INDIVIDUALLY BE BRACED NEED NOT BE BRACED IF ENSURE THAT TEMPORARY CONSTRUCTION PARTITIONS ARE SMOKE TIGHT AND CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS. NOT RESTRICT THE MOVEMENT OF THE TRAPEZE. IF THIS FLEXIBILITY IS NOT PROVIDE ADDITIONAL FIRE FIGHTING EQUIPMENT AND TRAIN PERSONNEL IN ITS USE DETERMINED ASSUMING ALL PIPES AND CONDUIT ARE FILLED WITH WATER. SYMBOL LEGEND: **EQUIPMENT SUPPORTS AND ATTACHMENTS** SHEET NUMBER THIS PROJECT SHALL BE DETAILED ON CONSTRUCTION DOCUMENTS, EXCEPT THOSE EXEMPT BY THE 2016 CBC SECTION 1616A.1.18 TRUE EQUIPMENT SUPPORTS AND ATTACHMENTS SHALL BE APPROVED BY THE NORTH FIELD REVIEWS/OBSERVATIONS. THE INSPECTOR OR RECORD (IOR) SHALL ASSURE THAT THE ABOVE REQUIREMENTS ARE ENFORCED. NORTH ARROW REFERENCE: 2016 CBC SECTIONS 107 AND 1616A. **ELEVATION** SEISMICALLY RESTRAIN ALL SUSPENDED UTILITY SYSTEMS IN CONFORMANCE WITH REQUIREMENTS OF THE 2016 CALIFORNIA BUILDING CODE, CHAPTER 16A/ASCE 7-10. AS THE BASIS FOR THE RESTRAINT REQUIREMENTS, CALCULATE AND SUBMIT TOTAL DESIGN LATERAL FORCE(S) SPECIFIC TO THE PROJECT PER **ELEVATION IN PLAN** OSHPD REQUIREMENTS OF THE CBC AND ASCE 7-10 SECTION 13.5.6. TYPICAL PRE-APPROVED SYSTEMS INCLUDED THE FOLLOWING: WINDOW/FRAME NUMBER OPM-0043-13 MASON INDUSTRIES, INC. SEISMIC RESTRAINT GUIDELINES /2\ FOR SUSPENDED DISTRIBUTION SYSTEMS. DRAWING KEYNOTE REFERENCE: 2016 CAC SECTIONS 7-115, 7-126, AND CBC 2016 SECTION 107. WITH THE PRE-APPROVAL SHALL BE SUBMITTED TO THE REGISTERED DESIGN EQUIPMENT NUMBER VERIFY THAT THE DETAILS ARE IN CONFORMANCE WITH ALL CODE **WALL TYPE** THE STRUCTURAL ENGINEER OF RECORD (SEOR) SHALL VERIFY THAT THE SUPPORTING STRUCTURE IS ADEQUATE FOR THE LOADS IMPOSED ON IT BY THE SUPPORTS AND BRACES INSTALLED IN ACCORDANCE WITH THE PRE-TOILET ACCESSORY APPROVAL IN ADDITION TO ALL OTHER LOADS. THE SEOR SHALL FORWARD THE ANCHORAGE AND BRACING DRAWINGS (INCLUDING APPROVED CHANGE ORDERS FOR SUPPLEMENTARY FRAMING WHERE REQUIRED) TO THE DISCIPLINE IN RESPONSIBLE CHARGE WITH A DETAIL IN PLAN

# FHEIR CONNECTIONS SHALL BE CONSTRUCTED OF DUCTILE MATERIALS (COPPER EITHER OF THE FOLLOWING CONDITIONS IS MET FOR THE FULL LENGTH OF EACH TRAPEZE ASSEMBLIES ARE USED TO SUPPORT DUCTWORK AND THE TOTAL WEIGHT FOR THE DUCTWORK SUPPORTED BY TRAPEZE ASSEMBLIES IS LESS DIAMETER GREATER THAN 3/8", THEY SHALL BE EQUIPPED WITH SWIVELS TO WHERE PROVISIONS ARE MADE TO AVOID IMPACT WITH LARGER DUCTS OR MECHANICAL COMPONENTS ROT O PROTECT THE DUCTS IN THE EVENT OF COMPONENTS THAT ARE INSTALED IN-LINE WITH THE DUCT SYSTEM AND HAVE AN EXCHANGERS, AND HUMIDIFIERS, SHALL BE SUPPORTED AND LATERALLY BRACED INDEPENDENT OF THE DUCT SYSTEM AND SUCH BRACES SHALL MEET THE FORCE THAT ELEVATOR SYSTEM PIPING SHALL SATISFY THE REQUIREMENTS OF SECTION ARE 12 IN. (305 MM) OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO OR TO PROTECT THE PIPING IN THE EVENT OF SUCH IMPACT; AND THE FOR SEISMIC DESIGN CATEGORIES D.E. OR F WHERE ID IS EQUAL PIPES, DUCTS AND CONDUIT SUPPORTED BY A TRAPEZE WHERE NONE OF THOSE CONNECTIONS TO THE PIPE/CONDUIT/DUCTWORK OR DIRECTIONAL CHANGES DO PROVIDED, BRACING WILL BE REQUIRED WHEN THE AGGREGATE WEIGHT OF THE PIPES AND CONDUIT EXCEEDS 10 POUNDS/ FEET (146 N/m). THE WEIGHT SHALL BE SUPPORTS AND ATTACHMENTS OF ALL EQUIPMENT TO BE INSTALLED AS PART OF APPROPRIATE DESIGN PROFESSIONAL OF RECORD (RDP) AND OSHPD AS PART OF LAYOUT DRAWINGS OF THE SUPPORTS AND BRACING SYSTEMS IN ACCORDANCE PROFESSIONAL (RDP) IN RESPONSIBLE CHARGE OF THE PROJECT FOR REVIEW TO REQUIREMENTS. THE LAYOUT DRAWINGS SHALL AS A MINIMUM SATISFY THE 2 REQUIREMENTS OF ASCE SECTION 13.6 AS MODIFIED BY THE CBC 2016 SECTION

NOTATION INDICATING THAT THE DRAWINGS HAVE BEEN REVIEWED AND

A "SHOP DRAWING STAMP" MAY BE USED TO INDICATE COMPLIANCE WITH

PROVIDE SHOP DRAWING STAMP FOR SMALL PROJECTS AT THE DISCRETION

ARE IN GENERAL CONFORMANCE WITH THE PRE-APPROVAL AND THE

THE REGISTERED DESIGN PROFESSIONAL (OTHER THAN SEOR) MAY

THE SEOR SHALL DESIGN ANY SUPPLEMENTARY FRAMING THAT IS NEEDED TO

RESIST THE LOADS, MAINTAIN STABILITY AND/OR IS REQUIRED FOR INSTALLATION

THE SUPPLEMENTARY FRAMING SHALL BE SUBMITTED TO OSHPD AS A

DESIGN OF THE PROJECT.

OF THE DISTRICT STRUCTURAL ENGINEER.

THIS REQUIREMENT.

OF THE PRE-APPROVED SYSTEM.

**DETAIL IN SECTION** 

BUILDING SECTION

NO DOOR KNOB OR SURFACE-MOUNTED HARDWARE. THE UNLATCHING OF ANY LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION. THERE SHALL BE A LEVEL AND CLEAR FLOOR OR LANDING ON EACH SIDE OF A DOOR. THE LEVEL AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF A LEAST 60 INCHES AND THE LENGTH OPPOSITE THE DIRECTION OF THE DOOR SWING OF 48 INCHES AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN ITS CLOSED POSITION. THE WIDTH OF THE LEVEL AREA ON THE SIDE TO WHICH THE DOOR SWINGS SHALL EXTEND 24 INCHES PAST THE STRIKE EDGE OF THE DOOR FOR EXTERIOR DOORS AND 18 INCHES PAST THE STRIKE EDGE FOR INTERIOR DOORS. THE WIDTH OF THE AREA ON THE SIDE OPPOSITE THE SWING SHALL EXTEND 12 INCHES PAST THE STRIKE EDGE OF THE DOOR WHEN THE DOOR IS EQUIPPED WITH BOTH A CLOSER 25. AND A LATCHSET. ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2 INCH. WHEN CHANGES IN LEVEL DO OCCUR, THEY SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2 EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4 INCH MAY BE VERTICAL. WHEN CHANGES IN LEVELS GREATER THAN 1/2 INCH ARE NECESSARY THEY SHALL COMPLY WITH THE REQUIREMENTS FOR RAMPS. MINIMUM WIDTH SHALL BE 48". SIDE REACH MOUNTING HEIGHTS: IF THE CLEAR FLOOR SPACE ALLOWS PARALLEL APPROACH BY A PERSON IN A WHEELCHAIR, THE MAXIMUM HEIGHT FOR HIGH SIDE REACH SHALL BE 44 INCHES AND THE LOW SIDE REACH SHALL BE 15 INCHES ABOVE THE FINISHED FLOOR. FORWARD REACH MOUNTING HEIGHTS: IF THE CLEAR SPACE ONLY ALLOWS FORWARD APPROACH BY A PERSON IN A WHEELCHAIR. THE MAXIMUM HEIGHT FOR HIGH SIDE REACH SHALL BE 48 INCHES AND THE LOW SIDE REACH SHALL BE 15 INCHES ABOVE THE FINISHED FLOOR. DOORS LEADING TO MEN'S SANITARY FACILITIES SHALL BE IDENTIFIED BY AN EQUILATERAL TRIANGLE 1/4" THICK, WITH EDGES 12" LONG AND A VERTEX POINTING UPWARD. WOMEN'S SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK AND 12" IN DIAMETER.

THE LAYOUT DRAWINGS (WITH THE SHOP DRAWING STAMP) SHALL BE SUBMITTED TO OSHPD TO REVIEW: 1) STRUCTURE SUPPORTING THE DISTRIBUTION SYSTEM HAS ADEQUATE 2) SEISMIC DESIGN FORCES (FP) ARE IN ACCORDANCE WITH CBC 2016, AND 3) VERIFY THAT SUBMITTAL IS WITHIN THE SCOPE OF OSHPD PRE-APPROVAL MANUFACTURER'S CERTIFICATION (OPM): SIZE OF DISTRIBUTION SYSTEM COMPONENTS SPACING OF BRACING AND FLEX JOINTS, AND SUBSTRATE FOR ATTACHMENTS. THE LAYOUT DRAWINGS (WITH THE SHOP DRAWINGS STAMP) SHALL BE KEPT ON THE JOBSITE AND CAN THEM BE USED FOR INSTALLATION OF THE SUPPORT AND BRACING. a) OSHPD FIELD STAFF WILL REVIEW THE INSTALLATION. A COPY OF THE CHOSEN BRACING SYSTEM(S) INSTALLATION GUIDE/OPM MANUAL SHALL BE ON THE JOBSITE PRIOR TO STARTING THE INSTALLATION OF HANGERS a) IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF OPM AND FURNISH THE IOR WITH ONE COPY OF EACH. COMPONENTS OF TWO OR MORE PRE-APPROVED BRACING SYSTEMS SHALL NOT BE MIXED. a) ONLY ONE PRE-APPROVED BRACING SYSTEM MAY BE USED FOR A RUN OF PIPE, DUCT OR CONDUIT. ANY SUBSTITUTION OF COMPONENT OF A PRE-APPROVED BRACING SYSTEM SHALL REQUIRE OSHPD REVIEW AND APPROVAL. REFERENCE: 2016 CAC SECTIONS 7-115, 7-126, 7-153, AND CBC 2016 SECTION 107. REQUIREMENTS FOR ACCESSIBILITY IN ADDITION TO ALL LOCAL REQUIREMENTS AND THE AMERICANS WITH DISABILITIES ACT (ADA), ACCESSIBLE FEATURES SHALL COMPLY WITH THE STATE OF CALIFORNIA ADMINISTRATIVE CODE OF REGULATIONS, BUILDING CODE, TITLE DURING ALL HOURS THE BUILDING IS OPEN TO THE PUBLIC, ALL PRIMARY ENTRANCES TO THE BUILDING. THE PRIMARY PATH OF TRAVEL FROM THE ENTRANCES TO ALL PORTIONS OF THE BUILDING INCLUDING SANITARY FACILITIES, DRINKING FOUNTAINS AND PUBLIC TELEPHONES SERVING THE BUILDING MUST BE ACCESSIBLE TO THE DISABLED. ALL BUILDING ENTRANCES SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS. HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34 INCHES AND 44 INCHES ABOVE THE FLOOR. LATCHING AND LOCKING DOORS THAT ARE HAND-ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. LOCKED EXIT DOORS SHALL OPERATE AS ABOVE IN EGRESS DIRECTION. (CBC SECTION MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC. DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MINIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS. (CBC SECTION THE BOTTOM 10 INCHES OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHAL HAVE A SMOOTH. UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED, A 10-INCH HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. (CBC SECTION 11B-404.2.10) FOR HINGED DOORS, THE OPENING WIDTH SHALL BE MEASURED WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. AT LEAST ONE OF A PAIR OF DOORS SHALL MEET THIS OPENING WIDTH REQUIREMENT. (CBC SECTION 11B-404.2.2 & 11B-404.2.3) MANUALLY OPERATED EDGE OR SURFACE MOUNTED FLUSH BOLTS ARE NOT ALLOWED. WHEN EXIT DOORS ARE USED IN PAIRS AND APPROVED FLUSH BOLTS ARE USED, THE DOOR LEAF HAVING THE AUTOMATIC FLUSH BOLTS SHALL HAVE

UNISEX SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK, 12"

DIAMETER, WITH A 1/4" THICK TRIANGLE SUPERIMPOSED ON THE CIRCLE AND

GEOMETRIC (CIRCLE AND TRIANGLE) SYMBOLS SHALL BE CENTERED ON THE

CONTRAST SHALL BE DISTINCTLY DIFFERENT FROM THE COLOR AND CONTRAST

ADDITIONAL SIGNAGE REQUIREMENTS: RAISED LETTERS SHALL BE PROVIDED AND

SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH SECTION 11B-703.

THEY SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH OUTSIDE OF

THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING

AND SIGNS SHALL BE MOUNTED 48" MINIMUM ABOVE FINISH FLOOR, MEASURED FROM THE BASELINE OF THE LOWEST LINE OF BRAILLE AND 60" MAXIMUM ABOVE

THE FINISH FLOOR, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF

DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL

DOOR AT A HEIGHT OF 60" ABOVE FINISHED FLOOR AND THEIR COLOR AND

WITHIN THE 12" DIAMETER.

RAISED CHARACTERS. CBC 11B-703.4.1

OF THE DOOR.

**GENERAL NOTES** THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CHECKING CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS FOR ACCURACY, AND CONFIRMING THAT WORK IS BUILDABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS REGARDING THESE OR OTHER COORDINATION ISSUES, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE OWNERS' REPRESENTATIVE BEFORE PROCEEDING WITH WORK IN QUESTION OR RELATED WORK. THE GENERAL CONTRACTOR SHALL INFORM THE OWNERS' REPRESENTATIVE. PRIOR TO CONSTRUCTION, OF ANY CONFLICTS THAT EXIST IN ANY AND ALL MECHANICAL, TELEPHONE, ELECTRICAL, LIGHTING, PLUMBING AND SPRINKLER EQUIPMENT LOCATIONS INCLUDING ALL PIPING, DUCTWORK AND CONDUIT, AND INSURE THAT ALL REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE ARE PROVIDED. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL WORK AND MATERIALS IN ACCORDANCE WITH ALL CODES AND REQUIREMENTS OF STATE AND LOCAL REGULATORY AGENCIES. ALL WORK NOT SPECIFICALLY COVERED IN THE CONTRACT DOCUMENTS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH CONSTRUCTION INDUSTRY DRAWINGS, THOUGH NOTED TO SCALE, ARE DIAGRAMMATICAL. DO NOT SCALE DRAWINGS. ALL HEIGHTS ARE DIMENSIONED FROM TOP OF SLAB UNLESS OTHERWISE NOTED. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING ALL CHANGES TO THE CONSTRUCTION DOCUMENTS, NO MATTER HOW MINOR, FOR AS-BUILT RECORD DOCUMENTS. THESE DOCUMENTS ARE TO BE GIVEN TO THE OWNERS' REPRESENTATIVE WITHIN 2 WEEKS AFTER FINAL COMPLETION. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL UTILITIES INDICATED ON THE INTERIOR ELEVATIONS WITH THE ELECTRICAL AND PLUMBING SUBCONTRACTORS. IN THE CASE OF CONFLICTS OR AMBIGUITIES NOT CLARIFIED PRIOR TO THE

BIDDING DEADLINE. USE THE MOST COSTLY ALTERNATIVE (BETTER QUALITY. GREATER QUANTITY AND LARGER SIZE) IN PREPARING THE BID. A CLARIFICATION WILL BE ISSUED TO THE SUCCESSFUL BIDDER AS SOON AS FEASIBLE AFTER THE

ALL PENETRATIONS THROUGH FIRE RESISTIVE PARTITION AND SLAB, INCLUDING CONDUITS AND PIPING, SHALL BE CONSTRUCTED TO MEET APPROVED U.L. ALL PENETRATIONS INTO SOUND RATED PARTITIONS, INSULATED PARTITIONS OR CEILING ASSEMBLIES SHALL BE SEALED WITH APPROVED PERMANENT RESILIENT SEALANT. OR OTHERWISE TREATED TO MAINTAIN INTEGRITY OF THE ACOUSTICAL

AWARD AND, IF APPROPRIATE, A DEDUCTIVE CHANGE ORDER WILL BE ISSUED.

CONTRACTOR TO PREVENT GALVANIC ACTION AND OTHER FORMS OF CORROSION BY INSULATING METALS AND OTHER MATERIALS FROM DIRECT CONTACT WITH INCOMPATIBLE MATERIALS.

THE CONTRACTOR SHALL PERFORM ALL CUTTING, PATCHING, AND FINISHING NECESSARY TO RESTORE THE ORIGINAL CONDITION OF THE BUILDING TO ALL EXISTING PORTIONS OF THE BUILDING AFFECTED BY HIS WORK, TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.

WHEN INSTALLING DRILLED-IN ANCHORS AND OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE. USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING STEEL. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT STEEL AND THE DRILLED-IN ANCHOR AND OR PIN.

THE CONTRACTOR SHALL COORDINATE ALL PHASING, ACCESS, DEBRIS, STAGING AREAS, AND HOURS OF CONSTRUCTION WITH OWNERS PRIOR TO START OF CONSTRUCTION.

CONTRACTOR TO PROVIDE REQUIRED DUST AND INFECTION CONTROL PROTECTION SYSTEM. MEANS AND METHODS TO BE COORDINATED WITH OWNER

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF THE AREA OF THE PROJECT WORK AND SHALL ALSO BE RESPONSIBLE FOR THE DISCIPLINE OF ALL CONSTRUCTION WORKERS ON THE PROJECT

THE GENERAL CONTRACTOR SHALL COORDINATE WITH STRUCTURAL, MEP, FIRE ALARM, FIRE PROTECTION, NURSE CALL, INTERIORS AND EQUIPMENT DRAWINGS PRIOR TO STARTING CONSTRUCTION. THE PROJECT MANUAL AND ALL DRAWINGS IN THE CONSTRUCTION DRAWINGS SHALL BE PART OF THE CONSTRUCTION

THE GENERAL CONTRACTOR SHALL SEPARATE DISSIMILAR METALS WITH BUILDING PAPER OR PLASTIC SHIM.

THE GENERAL CONTRACTOR SHALL X-RAY AND/OR ULTRASOUND THE EXISTING CONCRETE FLOORS AND STRUCTURAL SLAB ABOVE ANY POSSIBLE EMBEDDED CONDUITS, STRUCTURAL REBAR UNFORESEEN CONDITION THAT IS OUTSIDE THE SCOPE OF WORK AND MIGHT IMPEDE THE ANCHORING OF EQUIPMENT OR CONFLICT WITH TRENCHING PRIOR TO CONSTRUCTION.

CONTRACTOR STAGING TO BE IN THE ROOMS UNDER REMODEL

22. CONTRACTOR PARKING TO BE IN CONTRACTOR DESIGNATED PARKING AREA

THE CONTRACTOR SHALL ENSURE THAT THE AREA UNDER REMODEL IS LOCKED AND OTHERWISE SECURED AFTER HOURS.

THE GENERAL CONTRACTOR IS RESPONSIBLE TO CUT & PATCH TO MATCH ALL EXISTING PARTITIONS WHERE NEW FIRE ALARM AND ELECTRICAL DEVICES ARE REQUIRED AS SPECIFIED IN THE FIRE ALARM DRAWINGS.

CONTRACTOR TO INCLUDE AN ALLOWANCE TO FURNISH AND APPLY CRETESEAL 2000 CONCRETE SEALER OR APPROVED EQUAL ON SLAB ON GRADE.

## OSHPD INTENT STATEMENT

THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO BUILD. IN ACCORDANCE WITHTHE 2016 EDITION OF TITLES 24 & 19 OF THE CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITION OCCUR NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID CODES, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD PRIOR TO PROCEEDING WITH THE WORK.

**VICINITY MAP: ESCONDIDO** PROJECT SITE 4002 VISTA WAY OCEANSIDE, CA 92056 NORTH

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SD4 SD5 DETAILS The same was the same with the same was the same was the same with the same was the same w **MECHANICAL** M001 GENERAL NOTES, LEGEND, AND SHEET INDEX M002 SCHEDULES MD201 **DEMOLITION PLAN** M201 RENOVATION PLAN RENOVATION OVERALL ROOF PLAN M202 M203 RENOVATION ENLARGED ROOF PLAN M501 DIAGRAMS/CONTROLS M601 **DETAILS** M602 **DETAILS** M603 **DETAILS** /2\ M604 **DETAILS** 

**DETAILS** 

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FA200

P001 GENERAL NOTES, ABBREVIATIONS, LEGEND AND SHEET P201 SCHEDULES, DEMOLITION AND RENOVATION PLANS P601 DETAILS **ELECTRICAL** E001 GENERAL NOTES, LEGEND AND ABBREVIATIONS E002 SCHEDULES AND SINGLE LINE DIAGRAMS E100 PARTIAL OVERALL PLAN E200 DEMOLITION PLAN E201

RENOVATION, LIGHTING AND POWER PLANS FIRE ALARM FA001 GENERAL NOTES, LEGEND AND SCHEDULES

DEMOLITION AND RENOVATION FLOOR PLANS

PROJECT INFORMATION:

SCOPE OF WORK: RENOVATE EXISTING ANGIOGRAPHIC ROOM TO BECOME A CATH LAB, AND ADD A AIR HANDLER UNIT ON THE ROOF.

CONTROL ROOM SQ.FT.: 72 SQ. FT. PROCEDURE ROOM SQ.FT. 427 SQ. FT. UTILITY CLOSET SQ.FT.: 18 SQ. FT.

TOTAL COMBINED AREA: 496. SQ. FT

FIRE SPRINKLERS: NO < 0105

**CONSTRUCTION CLASSIFICATION: BUILDING DESCRIPTION:** NUMBER OF STORIES: 2 STORIES SEISMIC ZONE 4

3HR STRUCTURAL FRAME OCCUPANCY GROUP: 1-2 2HR FLOOR-CEILING/ROOF TYPE OF CONSTRUCTION: FIRE ZONE:3

2016 CALIFORNIA BUILDING CO 407-6 of the 2016 CBC TITLE

1 1/2 HR ROOF (FIRE HOSE: YES }

APPLICABLE CO ease provide the year of construction and ULATIONS 2016 CALIFORNIA ADMINISTRA March 4, 1972 and Type IA construction) for 4 OCR) this building to show compliance with Section

/17 Please provide response information BASED ON THE 2015 INTERIOR On the plans. 2016 CALIFORNIA ELECTRIC CODE (CEC) (PART 3, TITLE 24, CCR) BASED ON THE 2014 NATIONAL ELECTRICAL CODE (NEC) 2016 CALIFORNIA MECHANICAL CODE (CMC) (PART 4, TITLE 24, CCR)

BASED ON THE 2015 UNIFORM MECHANICAL CODE (UMC) 2016 CALIFORNIA PLUMBING CODE (CPC) (PART 5, TITLE 24, CCR) BASED ON THE 2015 UNIFORM PLUMBING CODE CODE (UPC)

2016 CALIFORNIA FIRE CODE (CFC) (PART 9, TITLE 24, CCR) BASED ON THE 2015 INTERNATIONAL FIRE CODE (IFC)

APPLICATION NUMBER: S170603-37-00

OSHPD APPROVAL

F: 619-299-5084 www.sfeirarch.com TCMC ANGIO TO CATH LAB RENOVATION

√ 5151 Shoreham Pl., Suite 100

San Diego, CA 92122

P: 619-299-3917

TRI-CITY MEDICAL **CENTER** 4002 VISTA WAY OCEANSIDE, CALIFORNIA 92056

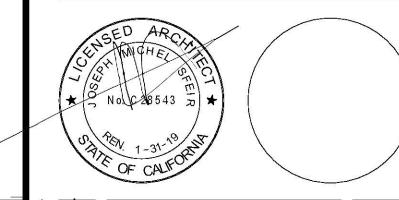
OWNER: TRI-CITY MEDICAL CENTER 4002 VISTA WAY OCEANSIDE, CALIFORNIA 92056 TEL(760)724-8411

ARCHITECT: SFEIR ARCHITECTS 5151 SHOREHAM PLACE, SUITE 100 SAN DIEGO, CALIFORNIA 92122 TEL(619)299-3917 FAX(619)299-5084

STRUCTURAL: SUN STRUCTURAL ENGINEERING, INC. 2091 LAS PALMAS DRIVE, SUITE D CARLSBAD, CALIFORNIA 92011 TEL(760)438-1188

> 9665 CHESAPEAKE, SUITE 230 SAN DIEGO, CALIFORNIA 92123 TEL(619)618-2347

ME&P:



1/30/17 **DESIGN CHANGES** OSHPD COMMENTS 8/14/17 OSHPD COMMENTS 10/02/17 <del>ENDCHONO CONONO CONONO CONONO</del> CONONO CONON DESIGN CHANGES 

REV: DESCRIPTION: DATE:

OSHPD #: S170603-37-00



KC Huang, Sr. Architect Office of Statewide Health Planning & Development

FACILITIES DEVELOPMENT DIVISION 70603-37-00]

PROJECT INFORMATION

TCMC ANGIO TO CATH LAB RENOVATION 01608.00 DRAWN BY

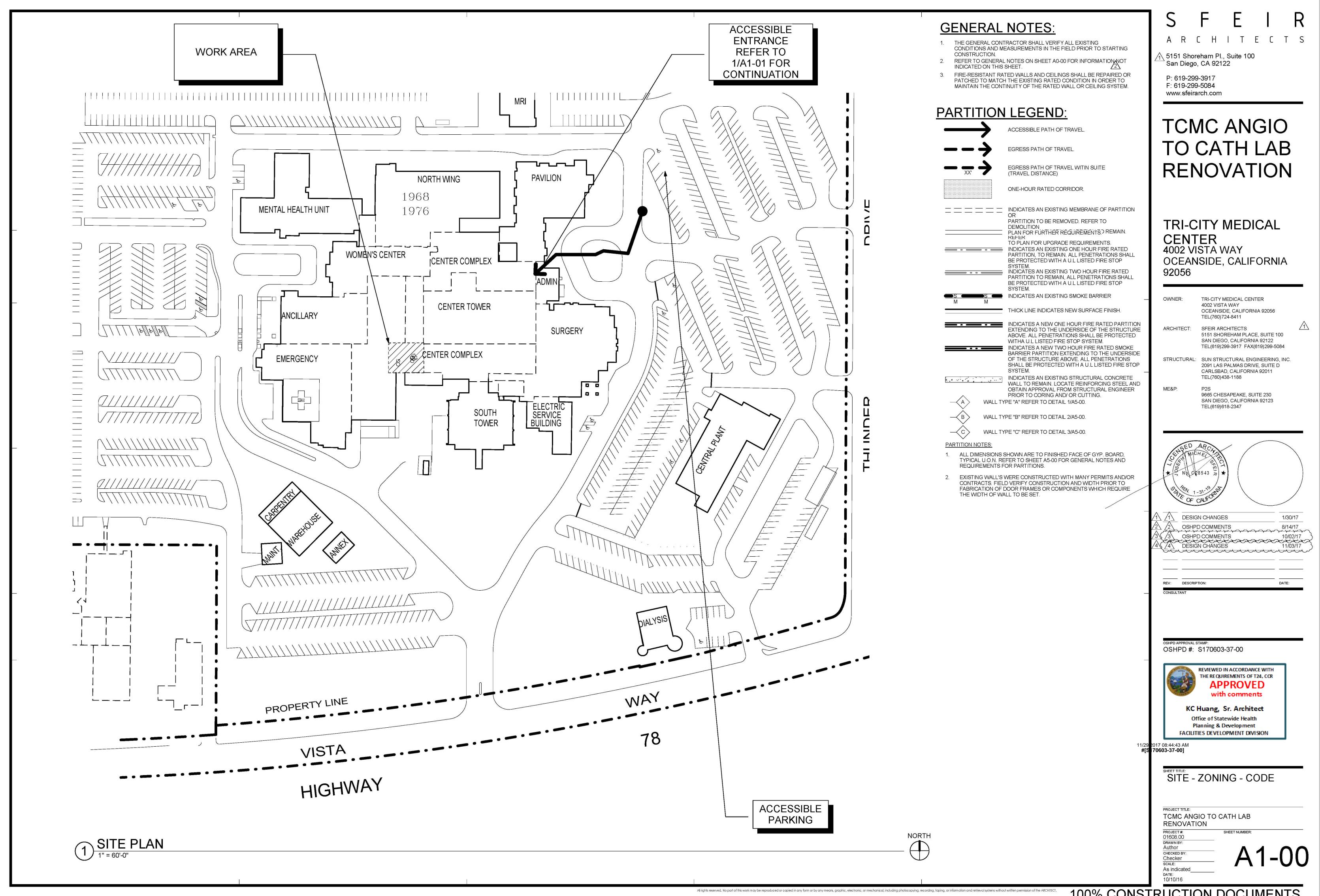
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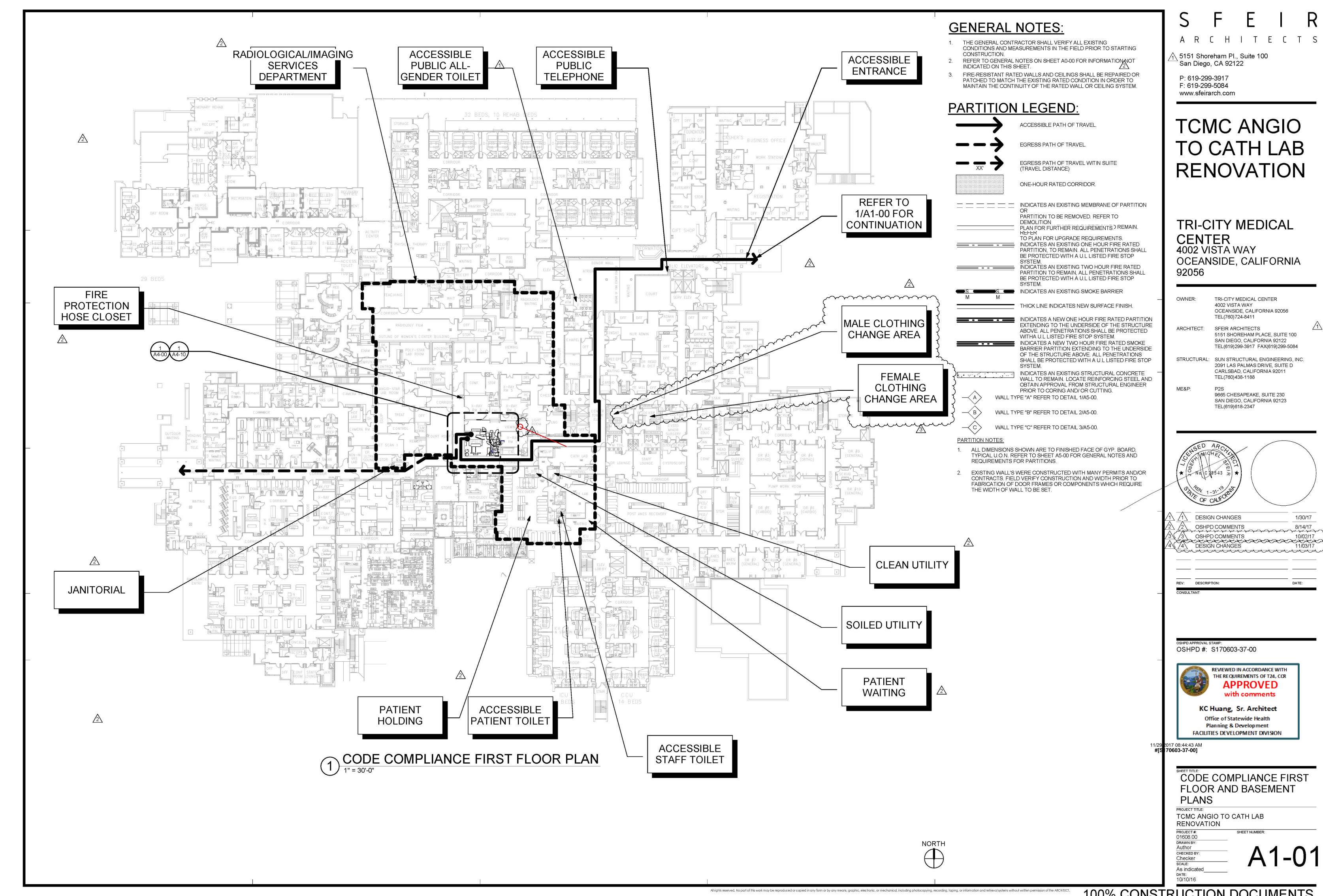
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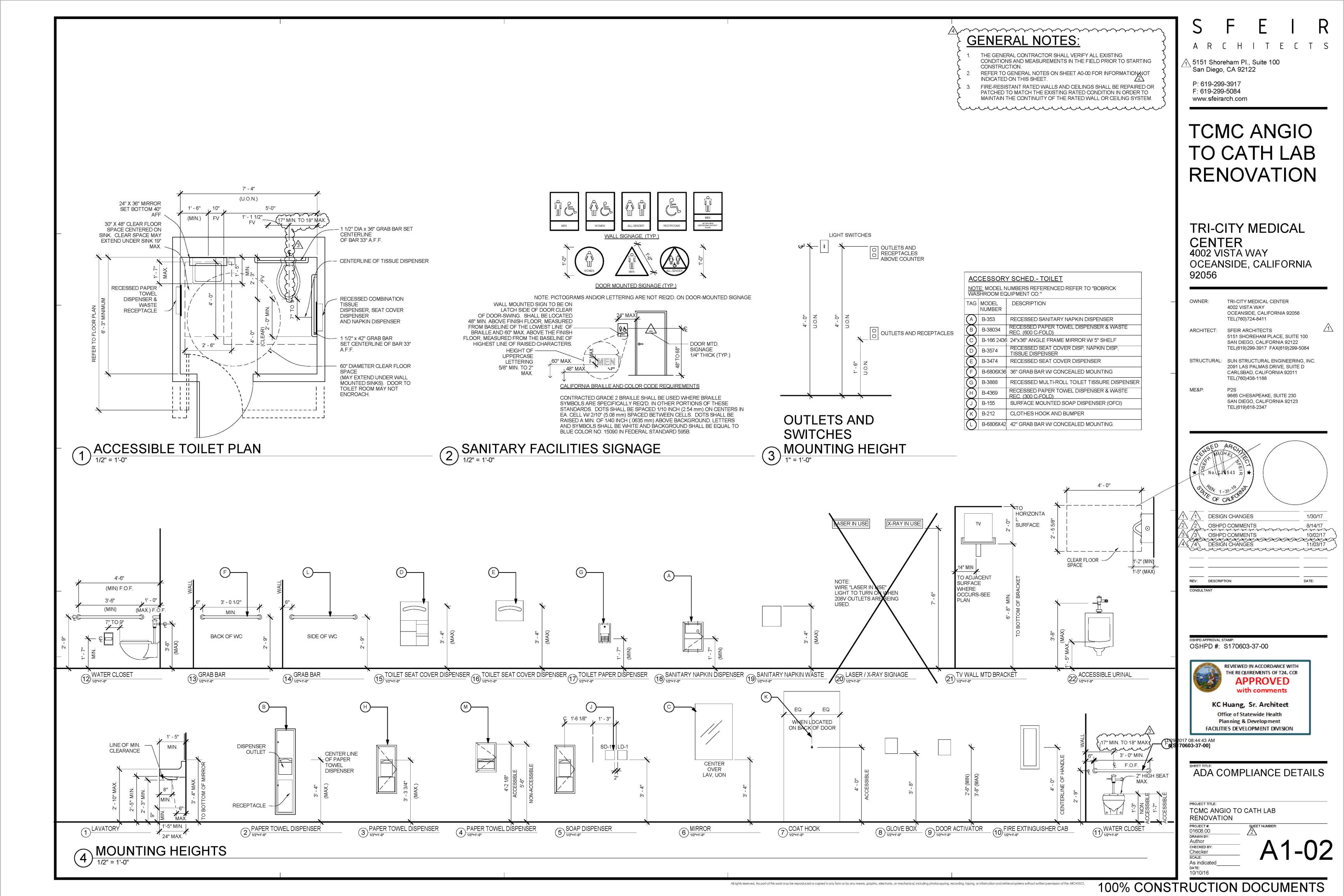
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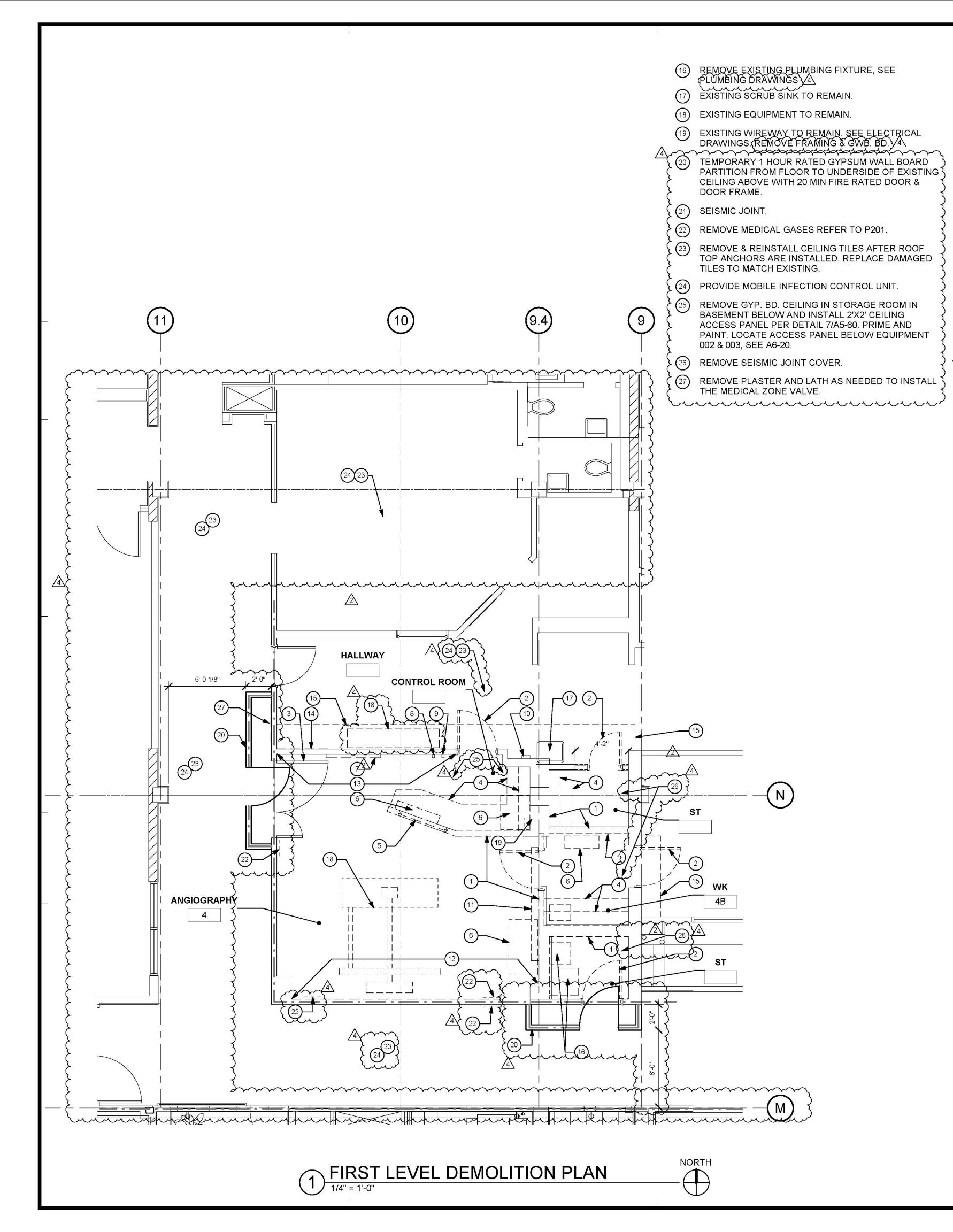
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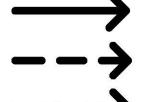


## **DEMOLITION KEYNOTES:**

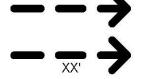
- REMOVE EXISTING PARTITION
- REMOVE EXISTING DOOR AND DOOR FRAME.
- (3) EXISTING DOOR AND DOOR FRAME TO REMAIN
- (4) REMOVE EXISTING MILLWORK.
- (5) REMOVE EXISTING WINDOW AND WINDOW FRAME
- (6) REMOVE EXISTING EQUIPMENT AND RELOCATE
- REMOVE EXISTING LIGHT BOX.
- EXISTING CLOCK CONTROL TO BE RELOCATED. EXISTING SHUT-OFF BUTTON TO BE RELOCATED.
- (10) EXISTING POWER CIRCUIT BREAKER TO REMAIN.
- (11) REMOVE EXISTING WALL MOUNTED LIGHT FIXTURE.
- (12) REMOVE EXISTING WALLPAPER
- REMOVE EXISTING WALL PROTECTION.
- REMOVE EXISTING GWB TO INSTALL NEW MEDICAL GAS ALARM PANEL.
- (15) FIRE RESISTIVE CORRUGATED BOARD Coroplast® Firewall FRB Class 94V-2. TEMPORARY EXITING PROVISIONS SHALL MEET THE REQUIREMENTS OF

OSHPD CAN 9-3301 AND THAT CONSTRUCTION/INFECTION CONTROL BARRIER PLACEMENT SHALL BE COORDINATED WITH OSHPD FIELD FLSO AND SHALL MAINTAIN AN ADEQUATE EGRESS IN COMPLIANCE WITH CBC AND SHALL NOT **OBSTRUCT EXISTING EXITS. SEPARATE** CONSTRUCTION AREA FROM ADJACENT OCCUPIED SPACE ABOVE CEILING WITH FIRE RESISTIVE VISQUEEN.

### PARTITION LEGEND

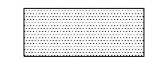


ACCESSIBLE PATH OF TRAVEL



EGRESS PATH OF TRAVEL

EGRESS PATH OF TRAVEL WITIN SUITE (TRAVEL DISTANCE)



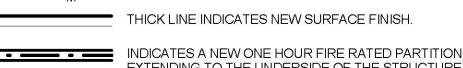
ONE-HOUR RATED CORRIDOR

INDICATES AN EXISTING MEMBRANE OF PARTITION PARTITION TO BE REMOVED. REFER TO DEMOLITION

PLAN FOR FURTHER REQUIREMENTS.) REMAIN. TO PLAN FOR UPGRADE REQUIREMENTS. INDICATES AN EXISTING ONE HOUR FIRE RATED PARTITION, TO REMAIN. ALL PENETRATIONS SHALL BE PROTECTED WITH A U.L LISTED FIRE STOP

INDICATES AN EXISTING TWO HOUR FIRE RATED PARTITION TO REMAIN, ALL PENETRATIONS SHALL BE PROTECTED WITH A U.L LISTED FIRE STOP

INDICATES AN EXISTING SMOKE BARRIER



THICK LINE INDICATES NEW SURFACE FINISH

EXTENDING TO THE UNDERSIDE OF THE STRUCTURE ABOVE. ALL PENETRATIONS SHALL BE PROTECTED WITHA U.L LISTED FIRE STOP SYSTEM. INDICATES A NEW TWO HOUR FIRE RATED SMOKE BARRIER PARTITION EXTENDING TO THE UNDERSIDE OF THE STRUCTURE ABOVE. ALL PENETRATIONS SHALL BE PROTECTED WITH A U.L LISTED FIRE STOP

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INDICATES AN EXISTING STRUCTURAL CONCRETE WALL TO REMAIN. LOCATE REINFORCING STEEL AND OBTAIN APPROVAL FROM STRUCTURAL ENGINEER PRIOR TO CORING AND/ OR CUTTING.

WALL TYPE "B" REFER TO DETAIL 2/A5-00.

WALL TYPE "A" REFER TO DETAIL 1/A5-00.

WALL TYPE "C" REFER TO DETAIL 3/A5-00.

- 1. ALL DIMENSIONS SHOWN ARE TO FINISHED FACE OF GYP. BOARD. TYPICAL U.O.N. REFER TO SHEET A5-00 FOR GENERAL NOTES AND REQUIREMENTS FOR PARTITIONS.
- EXISTING WALL'S WERE CONSTRUCTED WITH MANY PERMITS AND/OR CONTRACTS. FIELD VERIFY CONSTRUCTION AND WIDTH PRIOR TO FABRICATION OF DOOR FRAMES OR COMPONENTS WHICH REQUIRE THE WIDTH OF WALL TO BE SET.

#### **GENERAL NOTES:**

- THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING
- CONSTRUCTION. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION, NOT INDICATED ON THIS SHEET
- FIRE-RESISTANT RATED WALLS AND CEILINGS SHALL BE REPAIRED OR PATCHED TO MATCH THE EXISTING RATED CONDITION IN ORDER TO MAINTAIN THE CONTINUITY OF THE RATED WALL OR CEILING SYSTEM.

## **DEMOLITION GENERAL NOTES:**

- THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING DEMOLITION.
- THE GENERAL CONTRACTOR SHALL COORDINATE ALL PHASING, ACCESS, DEBRIS REMOVAL, STAGING AREAS AND HOURS OF CONSTRUCTION WITH OWNER PRIOR TO START OF DEMOLITION.
- 3. THE GENERAL CONTRACTOR SHALL COORDINATE WITH STRUCTURAL, MEP FIRE ALARM, FIRE PROTECTION, NURSE CALL, INTERIORS AND EQUIPMENT DRAWINGS PRIOR TO STARTING DEMOLITION. THE PROJECT MANUAL AND ALL DRAWINGS IN THE CONSTRUCTION DRAWINGS SHALL BE PART OF THE CONSTRUCTION DOCUMENTS.
- THE GENERAL CONTRACTOR SHALL SEPARATE DISSIMILAR METALS WITH BUILDING PAPER OR PLASTIC SHIM.
- THE GENERAL CONTRACTOR SHALL X-RAY AND/OR ULTRASOUND THE EXISTING CONCRETE FLOORS AND FLOOR ABOVE FOR ANY POSSIBLE EMBEDDED CONDUITS, STRUCTURAL REBAR OR UNFORESEEN CONDITION THAT MIGHT IMPEDE THE ANCHORING OF EQUIPMENT OR CONFLICT WITH CORE DRILLING PRIOR TO START OF CONSTRUCTION.
- REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.
- CONTRACTOR STAGING TO BE IN THE ROOMS UNDER REMODEL
- CONTRACTOR PARKING TO BE IN CONTRACTOR DESIGNATED PARKING
- THE CONTRACTOR SHALL ENSURE THAT THE AREA UNDER REMODEL IS LOCKED AND OTHERWISE SECURED AFTER HOURS.

10. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL COORDINATE WITH THE

- OWNER THE REMOVAL OF EXISTING EQUIPMENT INDICATED ON DASHED LINES INDICATE ITEMS TO BE DEMOLISHED OR REMOVED. REFER
- TO FLOOR PLAN, CEILING PLAN AND ROOM FINISH SCHEDULE ALONG WITH MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND FIRE ALARM SECTIONS FOR FURTHER DESCRIPTION OF SCOPE OF WORK.
- REFER TO DEMOLITION PLAN FOR NOTES INDICATING TYPE OF FINISHES WITHIN THE EXISTING SPACE TO BE REMOVED.
- 13. REFER TO RELATED PLANS FOR PORTIONS OF EXISTING CONSTRUCTION SCHEDULED TO REMAIN.
- 14. PATCH NEW WORK TO MATCH AND ALIGN WITH THE EXISTING. COMPLETELY REMOVE EXISTING FINISHES WHERE NEW FINISHES ARE SCHEDULED.
- 15. CONTRACTOR SHALL PRESERVE AND PROTECT THE EXISTING AREA, EQUIPMENT, CABINETRY ETC. ADJACENT TO THE AREA OF WORK
- REFER TO NEW PLAN AND INTERIOR ELEVATIONS FOR LOCATION OF NEW WALL CONNECTIONS, OPENINGS, RECESSED ITEMS, BACKING PLATES, ETC. AT EXISTING WALLS. REMOVE GYPSUM BOARD WHERE NEEDED TO ACCOMODATE FOR THE ABOVE WORK.
- 17 CAP AND CLOSE ALL ARANDONED OPENINGS AT EXISTING SLAB FILL AND PATCH TO LEVEL FLOOR. REFER TO STRUCTURAL DETAIL FOR INFILL OPENING DETAIL. NOTE THAT THE NUMBER OF EXISTING OPENINGS TO BE FILLED IS ONLY INDICATIVE, REFER TO MEP FOR MORE INFORMATION. NOTIFY ARCHITECT OF UNCOVERED EXISTING CONDITIONS.
- CONTRACTOR SHALL PRESERVE AND PROTECT THE PORTIONS OF THE EXISTING OVERHEAD PAGING, TELEPHONE, DATA AND ELECTRICAL LINES DURING THE COURSE OF CONSTRUCTION. MANY OF THE SYSTEMS ARE SCHEDULED FOR REUSE BY THE OWNER UNDER THIS OR SEPERATE
- GENERAL CONTRACTOR TO PROVIDE NEGATIVE PRESSURE IN EACH PHASE AND FILTER THE AIR WITH HEPA FILTRATION AND EXHAUST FILTER AIR THROUGH EXTERIOR WINDOWS. G.C. TO SECURE AN INFECTION CONTROL PERMIT FROM TRI CITY MEDICAL CENTER PRIOR TO STARTING CONSTRUCTION.
- TEMPORARY CONSTRUCTION BARRIERS ARE REQUIRED TO BE INSTALLED DURING THE CONSTRUCTION OR RECONSTRUCTION OF FIRE-RESISTIVE ASSEMBLIES AND SHALL MEET THE SAME FIRE RATING AS THE SPECIFIC PERMANENT PARTITION. TEMPORARY INSTALLATIONS SHALL MAINTAIN ADEQUATE EGRESS IN COMPLIANCE WITH THE CBC AND SHALL NOT OBSTRUCT EXISTING EXITS, CREATE A FIRE HAZARD OR REDUCE REQUIRED FIRE RESISTANCE.
- GENERAL CONTRACTOR SHALL INSTALL A TEMPORARY DUST CURTAIN OF FIRE RESTRICTIVE VISQUEEN IN THE PLENUM BETWEEN TOP OF STUD PARTITION AND UNDERSIDE OF DECK ABOVE. SEAL ALL OPENINGS INCLUDING DOORS, AIR SUPPLY AND RETURN, EXHAUST GRILLE. PROVIDE ZIPPER TYPE ACCESS TO CONSTRUCTION AREAS. THE TEMPORARY DUST CURTAIN IS TO BE ERECTED BETWEEN WORK AREA AND ALL ADJACENT ROOMS AND CORRIDORS. THE GENERAL CONTRACTOR SHALL PROVIDE A TEMPORARY HEPA FILTRATION SYSTEM. TO BE APPROVED BY OWNER, FOR EACH AREA OF THE REMODEL, FOR THE REMOVAL OF ALL AIRBORNE MATERIAL CAUSED DURING CONSTRUCTION. EXHAUST FILTERED AIR FROM ROOMS UNDER CONSTRUCTION THROUGH BUILDING AIR RETURN SYSTEM.

↑ 5151 Shoreham Pl., Suite 100

San Diego, CA 92122 P: 619-299-3917

F: 619-299-5084

www.sfeirarch.com

# TCMC ANGIO TO CATH LAB RENOVATION

#### TRI-CITY MEDICAL **CENTER** 4002 VISTA WAY OCEANSIDE, CALIFORNIA 92056

OWNER: TRI-CITY MEDICAL CENTER 4002 VISTA WAY OCEANSIDE, CALIFORNIA 92056

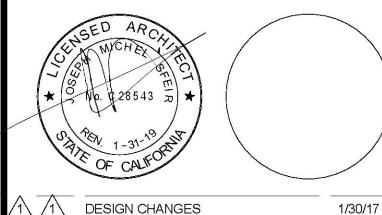
ARCHITECT: SFEIR ARCHITECTS 5151 SHOREHAM PLACE, SUITE 100 SAN DIEGO, CALIFORNIA 92122

TEL(760)724-8411

TEL(619)299-3917 FAX(619)299-5084 STRUCTURAL: SUN STRUCTURAL ENGINEERING, INC.

2091 LAS PALMAS DRIVE, SUITE D CARLSBAD, CALIFORNIA 92011 TEL(760)438-1188

ME&P: 9665 CHESAPEAKE, SUITE 230 SAN DIEGO, CALIFORNIA 92123 TEL(619)618-2347



8/14/17 OSHPD COMMENTS <del>~~~~~~~~~~</del> OSHPD COMMENTS 10/02/17 <del>ENDCHONO CONONO CONONO CONONO</del> CONONO CONON DESIGN CHANGES 

REV: DESCRIPTION:

OSHPD #: S170603-37-00



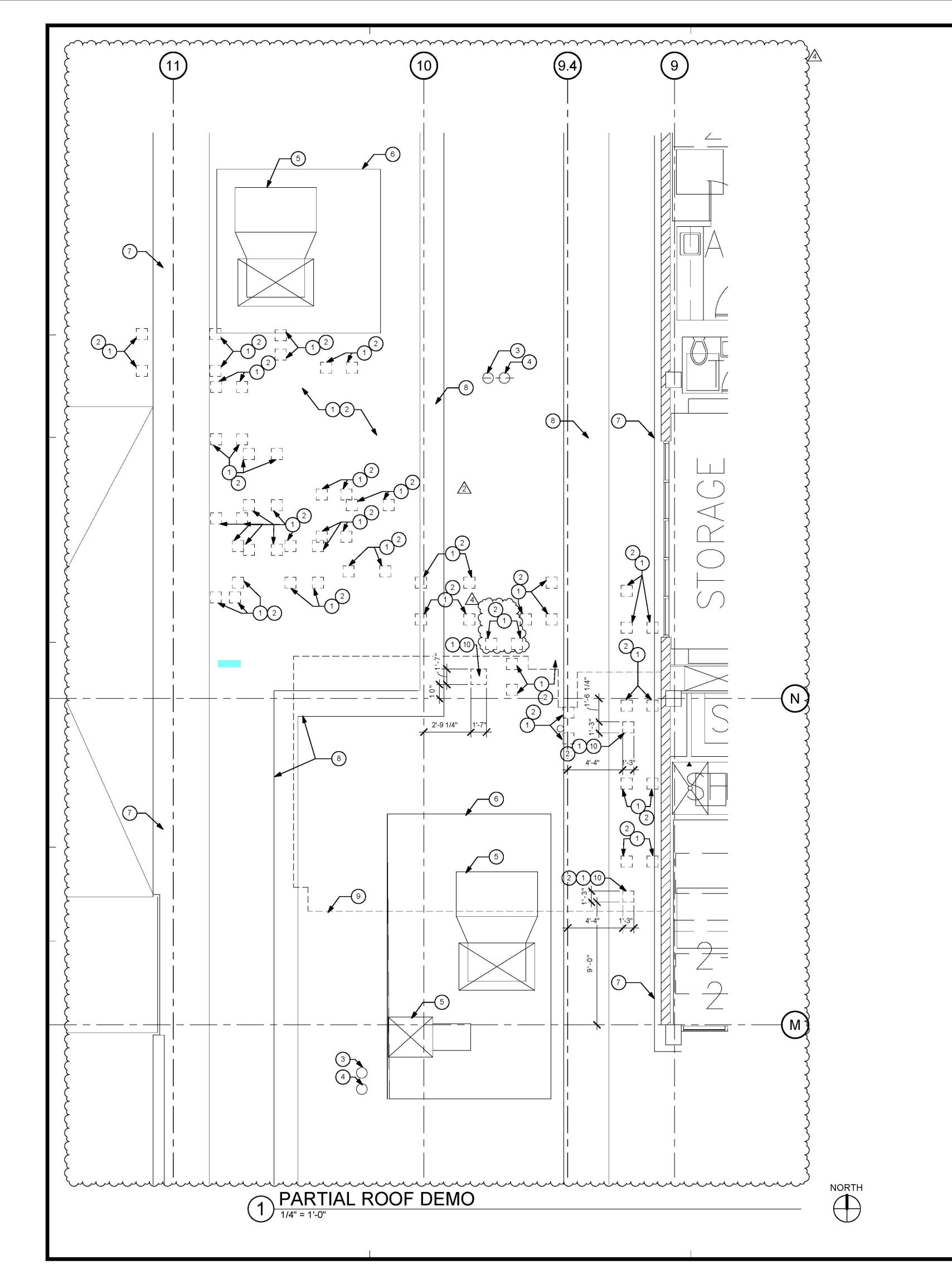
KC Huang, Sr. Architect Office of Statewide Health Planning & Development FACILITIES DEVELOPMENT DIVISION

70603-37-00]

1/4" PARTIAL DEMO FIRST

TCMC ANGIO TO CATH LAB RENOVATION

01608.00 CHECKED B Checker As indicated



#### **GENERAL NOTES:**

- THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING
- REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION/(NOT INDICATED ON THIS SHEET.
- FIRE-RESISTANT RATED WALLS AND CEILINGS SHALL BE REPAIRED OR PATCHED TO MATCH THE EXISTING RATED CONDITION IN ORDER TO MAINTAIN THE CONTINUITY OF THE RATED WALL OR CEILING SYSTEM.

### **DEMOLITION GENERAL NOTES:**

THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING DEMOLITION.

OWNER PRIOR TO START OF DEMOLITION.

- THE GENERAL CONTRACTOR SHALL COORDINATE ALL PHASING, ACCESS, DEBRIS REMOVAL, STAGING AREAS AND HOURS OF CONSTRUCTION WITH
- THE GENERAL CONTRACTOR SHALL COORDINATE WITH STRUCTURAL, MEP FIRE ALARM, FIRE PROTECTION, NURSE CALL, INTERIORS AND EQUIPMENT DRAWINGS PRIOR TO STARTING DEMOLITION. THE PROJECT MANUAL AND ALL DRAWINGS IN THE CONSTRUCTION DRAWINGS SHALL BE PART OF THE CONSTRUCTION DOCUMENTS.
- 4. THE GENERAL CONTRACTOR SHALL SEPARATE DISSIMILAR METALS WITH BUILDING PAPER OR PLASTIC SHIM.
- THE GENERAL CONTRACTOR SHALL X-RAY AND/OR ULTRASOUND THE EXISTING CONCRETE FLOORS AND FLOOR ABOVE FOR ANY POSSIBLE EMBEDDED CONDUITS, STRUCTURAL REBAR OR UNFORESEEN CONDITION THAT MIGHT IMPEDE THE ANCHORING OF EQUIPMENT OR CONFLICT WITH CORE DRILLING PRIOR TO START OF CONSTRUCTION.
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- CONTRACTOR STAGING TO BE IN THE ROOMS UNDER REMODEL.
- CONTRACTOR PARKING TO BE IN CONTRACTOR DESIGNATED PARKING
- THE CONTRACTOR SHALL ENSURE THAT THE AREA UNDER REMODEL IS LOCKED AND OTHERWISE SECURED AFTER HOURS.
- 10. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL COORDINATE WITH THE OWNER THE REMOVAL OF EXISTING EQUIPMENT INDICATED ON
- 11. DASHED LINES INDICATE ITEMS TO BE DEMOLISHED OR REMOVED. REFER TO FLOOR PLAN, CEILING PLAN AND ROOM FINISH SCHEDULE ALONG WITH MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND FIRE ALARM SECTIONS FOR FURTHER DESCRIPTION OF SCOPE OF WORK.
- 12. REFER TO DEMOLITION PLAN FOR NOTES INDICATING TYPE OF FINISHES WITHIN THE EXISTING SPACE TO BE REMOVED.
- 13. REFER TO RELATED PLANS FOR PORTIONS OF EXISTING CONSTRUCTION SCHEDULED TO REMAIN.
- 14. PATCH NEW WORK TO MATCH AND ALIGN WITH THE EXISTING. COMPLETELY REMOVE EXISTING FINISHES WHERE NEW FINISHES ARE SCHEDULED.
- 15. CONTRACTOR SHALL PRESERVE AND PROTECT THE EXISTING AREA. EQUIPMENT, CABINETRY ETC. ADJACENT TO THE AREA OF WORK
- 16. REFER TO NEW PLAN AND INTERIOR ELEVATIONS FOR LOCATION OF NEW WALL CONNECTIONS, OPENINGS, RECESSED ITEMS, BACKING PLATES, ETC. AT EXISTING WALLS. REMOVE GYPSUM BOARD WHERE NEEDED TO ACCOMODATE FOR THE ABOVE WORK.
- 17. CAP AND CLOSE ALL ABANDONED OPENINGS AT EXISTING SLAB. FILL AND PATCH TO LEVEL FLOOR. REFER TO STRUCTURAL DETAIL FOR INFILL FILLED IS ONLY INDICATIVE, REFER TO MEP FOR MORE INFORMATION. NOTIFY ARCHITECT OF UNCOVERED EXISTING CONDITIONS.
- CONTRACTOR SHALL PRESERVE AND PROTECT THE PORTIONS OF THE EXISTING OVERHEAD PAGING, TELEPHONE, DATA AND ELECTRICAL LINES DURING THE COURSE OF CONSTRUCTION. MANY OF THE SYSTEMS ARE SCHEDULED FOR REUSE BY THE OWNER UNDER THIS OR SEPERATE
- GENERAL CONTRACTOR TO PROVIDE NEGATIVE PRESSURE IN EACH PHASE AND FILTER THE AIR WITH HEPA FILTRATION AND EXHAUST FILTER AIR THROUGH EXTERIOR WINDOWS. G.C. TO SECURE AN INFECTION CONTROL PERMIT FROM TRI CITY MEDICAL CENTER PRIOR TO STARTING
- 20. TEMPORARY CONSTRUCTION BARRIERS ARE REQUIRED TO BE INSTALLED DURING THE CONSTRUCTION OR RECONSTRUCTION OF FIRE-RESISTIVE ASSEMBLIES AND SHALL MEET THE SAME FIRE RATING AS THE SPECIFIC PERMANENT PARTITION. TEMPORARY INSTALLATIONS SHALL MAINTAIN ADEQUATE EGRESS IN COMPLIANCE WITH THE CBC AND SHALL NOT OBSTRUCT EXISTING EXITS, CREATE A FIRE HAZARD OR REDUCE REQUIRED FIRE RESISTANCE.

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#### **ROOF DEMO. GENERAL NOTES:**

THE CONTRACTOR SHALL SECURE THE BUILDING FROM ALL WEATHER ELEMENTS DURING CONSTRUCTION.

#### **ROOF DEMOLITION KEYNOTES:**

- (1) REMOVE ROOFING, INSULATION AND AGGREGATE
- TEMPORARY COVER OPEN ROOF AGAINST WATER & WIND THROUGHOUT TO BE WATER TIGHT WHEN CONSTRUCTION IS NOT OCCURING.
- EXISTING ROOF DRAIN TO REMAIN.
- (4) EXISTING OVERFLOW ROOF DRAIN TO REMAIN.
- (5) EXISTING EXHAUST FAN.

CONSTRUCTION.

(6) EXISTING SCREEN.

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- (7) EXISTING ROOF EXPANSION JOINT.
- (8) EXISTING ELEVATED CONDUITS.
- (9) OUTLINE OF LAB ROOM BELOW.
  - SAWCUT EXISTING CONCRETE ROOF DECK FOR NEW DUCTWORK AND DUCT INSULATION

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# TCMC ANGIO TO CATH LAB RENOVATION

TRI-CITY MEDICAL **CENTER** 4002 VISTA WAY OCEANSIDE, CALIFORNIA 92056

OWNER: TRI-CITY MEDICAL CENTER 4002 VISTA WAY

ARCHITECT:

OCEANSIDE, CALIFORNIA 92056 TEL(760)724-8411

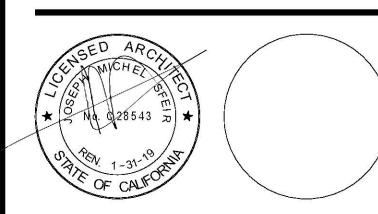
SFEIR ARCHITECTS

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DESIGN CHANGES OSHPD COMMENTS OSHPD COMMENTS DESIGN CHANGES <del>munimuni</del>

REV: DESCRIPTION:

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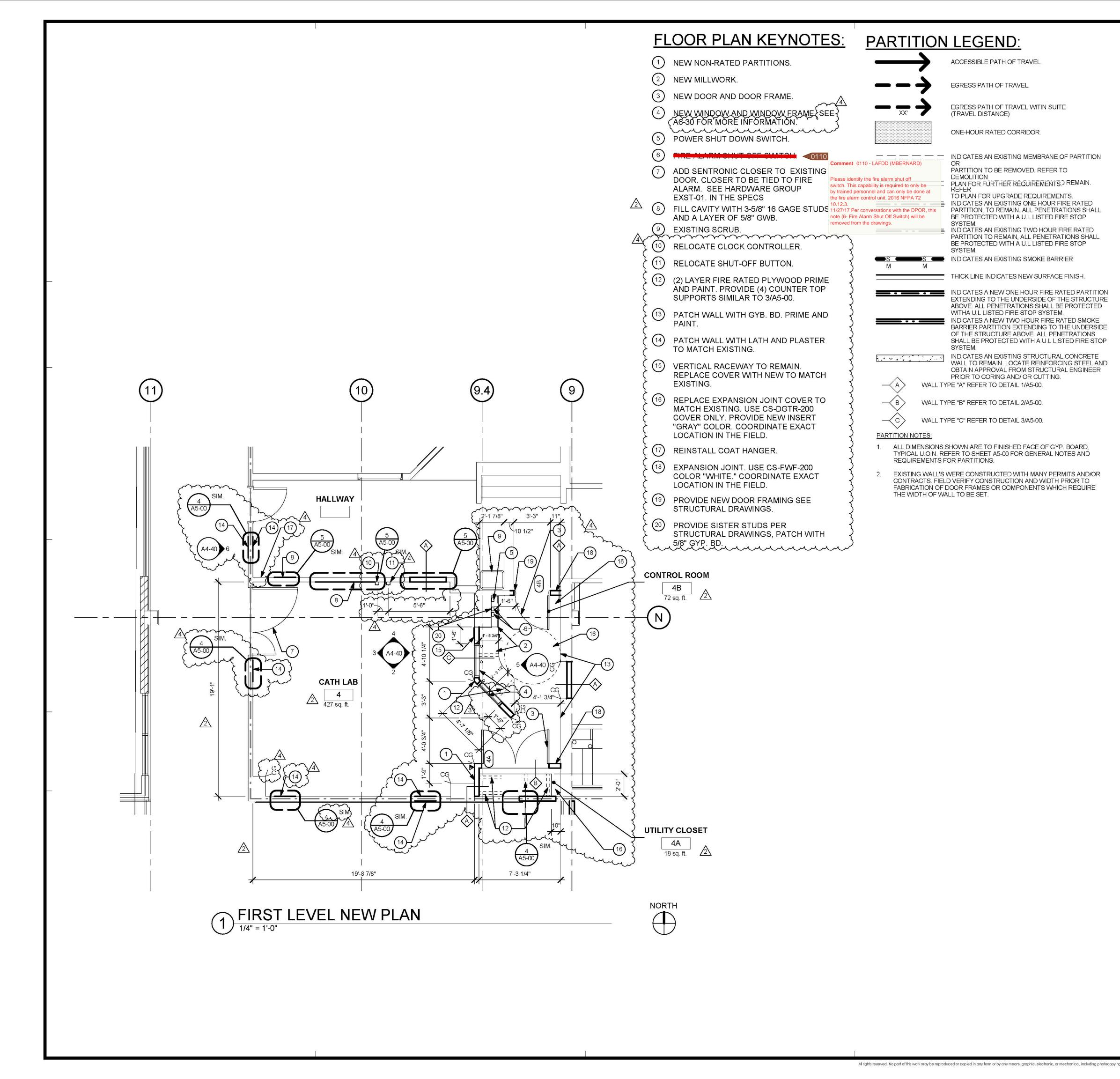
11/29 2017 08:44:43 AM **#[S 70603-37-00]** 

1/4" PARTIAL ROOF DEMO

TCMC ANGIO TO CATH LAB RENOVATION

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As indicated



## **GENERAL NOTES:**

- THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING
- REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION/NOT INDICATED ON THIS SHEET.
- FIRE-RESISTANT RATED WALLS AND CEILINGS SHALL BE REPAIRED OR PATCHED TO MATCH THE EXISTING RATED CONDITION IN ORDER TO MAINTAIN THE CONTINUITY OF THE RATED WALL OR CEILING SYSTEM.

### **GENERAL FLOOR PLAN NOTES:**

OWNER PRIOR TO START OF CONSTRUCTION.

- THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL COORDINATE ALL PHASING, ACCESS DEBRIS REMOVAL, STAGING AREAS AND HOURS OF CONSTRUCTION WITH
- 3. THE GENERAL CONTRACTOR SHALL COORDINATE WITH STRUCTURAL, MEP, FIRE ALARM, FIRE PROTECTION, NURSE CALL, INTERIORS AND EQUIPMENT DRAWINGS PRIOR TO STARTING CONSTRUCTION. THE PROJECT MANUAL AND ALL DRAWINGS IN THE CONSTRUCTION DRAWINGS SHALL BE PART OF THE CONSTRUCTION DOCUMENTS.
- THE GENERAL CONTRACTOR SHALL SEPARATE DISSIMILAR METALS WITH BUILDING PAPER OR PLASTIC SHIM.
- THE GENERAL CONTRACTOR SHALL X-RAY AND/OR ULTRASOUND THE EXISTING CONCRETE FLOORS AND FLOOR ABOVE FOR ANY POSSIBLE EMBEDDED CONDUITS, STRUCTURAL REBAR OR UNFORESEEN CONDITION THAT IS OUTSIDE THE SCOPE OF WORK AND MIGHT IMPEDE THE ANCHORING OF EQUIPMENT OR CONFLICT WITH TRENCHING PRIOR TO CONSTRUCTION.
- REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.
- 7. CONTRACTOR STAGING TO BE IN THE ROOMS UNDER REMODEL.

CONSTRUCTION.

- CONTRACTOR PARKING TO BE IN CONTRACTOR DESIGNATED PARKING
- 9. THE CONTRACTOR SHALL ENSURE THAT THE AREA UNDER REMODEL IS LOCKED AND OTHERWISE SECURED AFTER HOURS.
- 10. VERIFY ALL DIMENSIONS WITH EQUIPMENT SCHEDULE PRIOR TO START OF
- 11. REFER TO EQUIPMENT PLAN, CEILING PLAN, INTERIOR ELEVATIONS AND ROOM FINISH SCHEDULE ALONG WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND FIRE ALARM SECTIONS FOR FURTHER DESCRIPTION OF SCOPE OF WORK.
- 12. REFER TO FINISH PLAN AND SCHEDULE AMD INTERIOR DESIGN DOCUMENTS FOR TYPES OF FINISHES.
- 13. FOR DOOR INFORMATION REFER TO DOOR SCHEDULE, SHEET A6-00.
- 14. REFER TO SHEETS A1-00, AND 11-02 FOR ACCESSIBILITY REQUIREMENTS.
- 15. PROVIDE ACOUSTICAL INSULATION IN ALL NEW WALL ASSEMBLIES.
- 16. THE GENERAL CONTRACTOR SHALL VERIFY THE LEVELNESS OF THE SLAB AT ALL NEW DOOR LOCATIONS PRIOR TO CONSTRUCTION. APPLY LEVELING MATERIAL AS NECESSARY DURING CONSTRUCTION TO ACHIEVE MAX. OF 3/8" CLEARANCE FROM FINISH FLOOR TO UNDERSIDE OF NEW DOOR, REPLACE FINISHES TO MATCH EXISTING AS NEEDED.
- 17. THE GENERAL CONTRACTOR SHALL SEISMICALLY ANCHOR ALL EXISTING AND NEW BUILDING SYSTEMS ABOVE CEILING INCLUDING BUT NOT LIMITED TO DUCTWORK, ELECTRICAL CONDUITS AND TRAYS, SPRINKLER PIPES, PLUMBING PIPES, ETC. REFER TO A0-00 FOR MORE INFORMATION.

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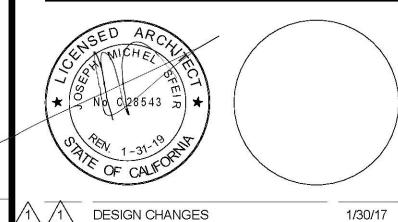
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REV: DESCRIPTION:

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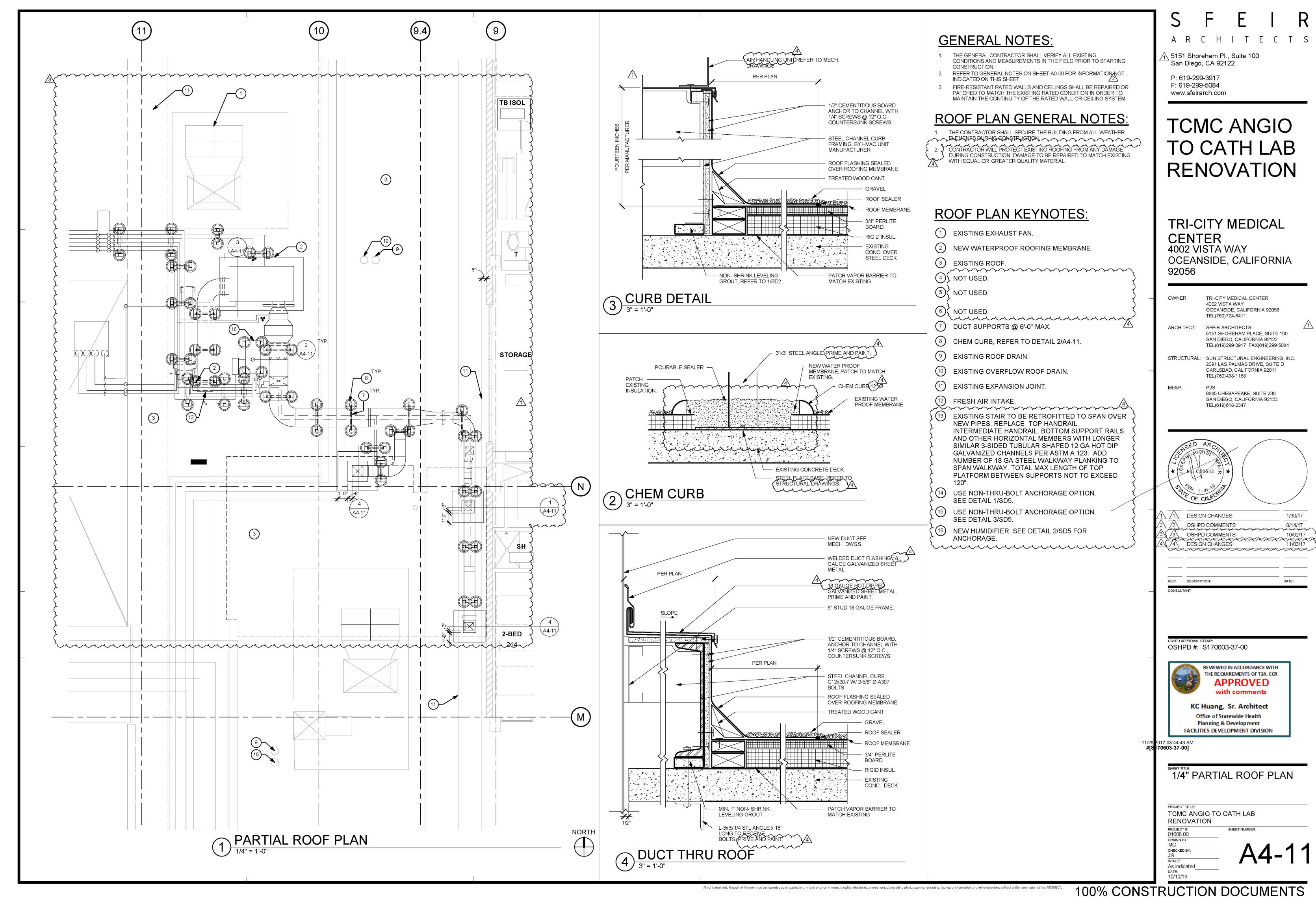


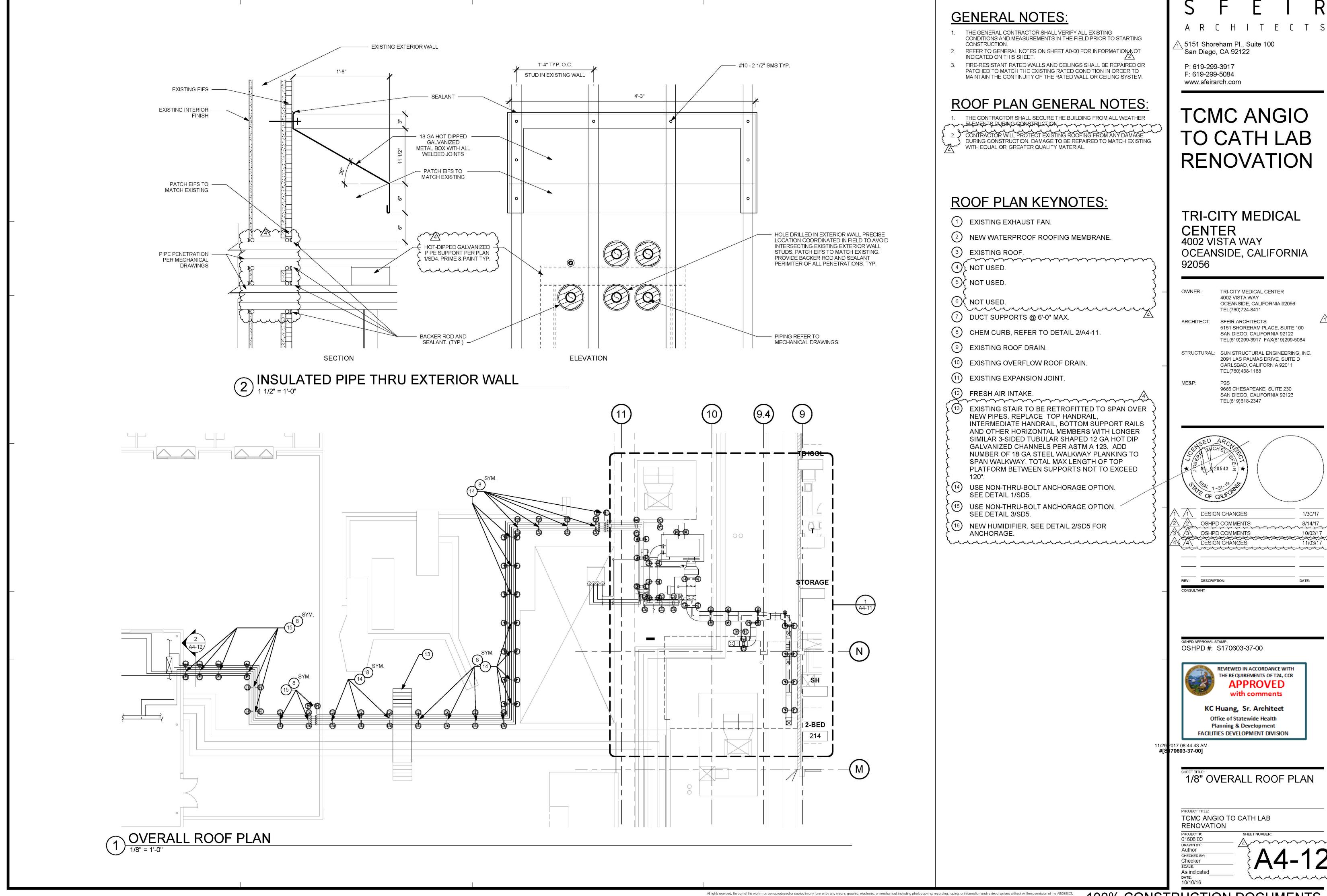
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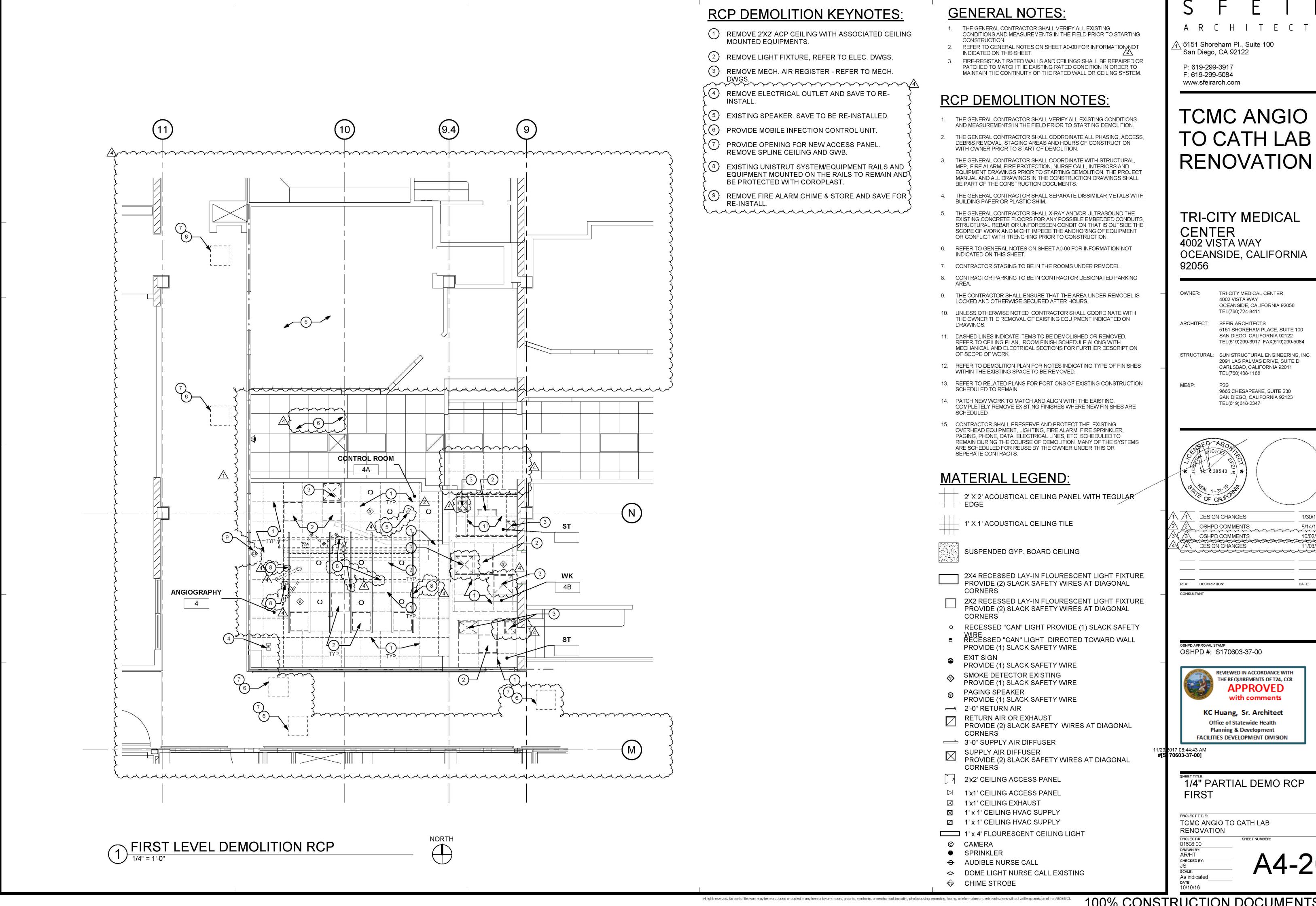
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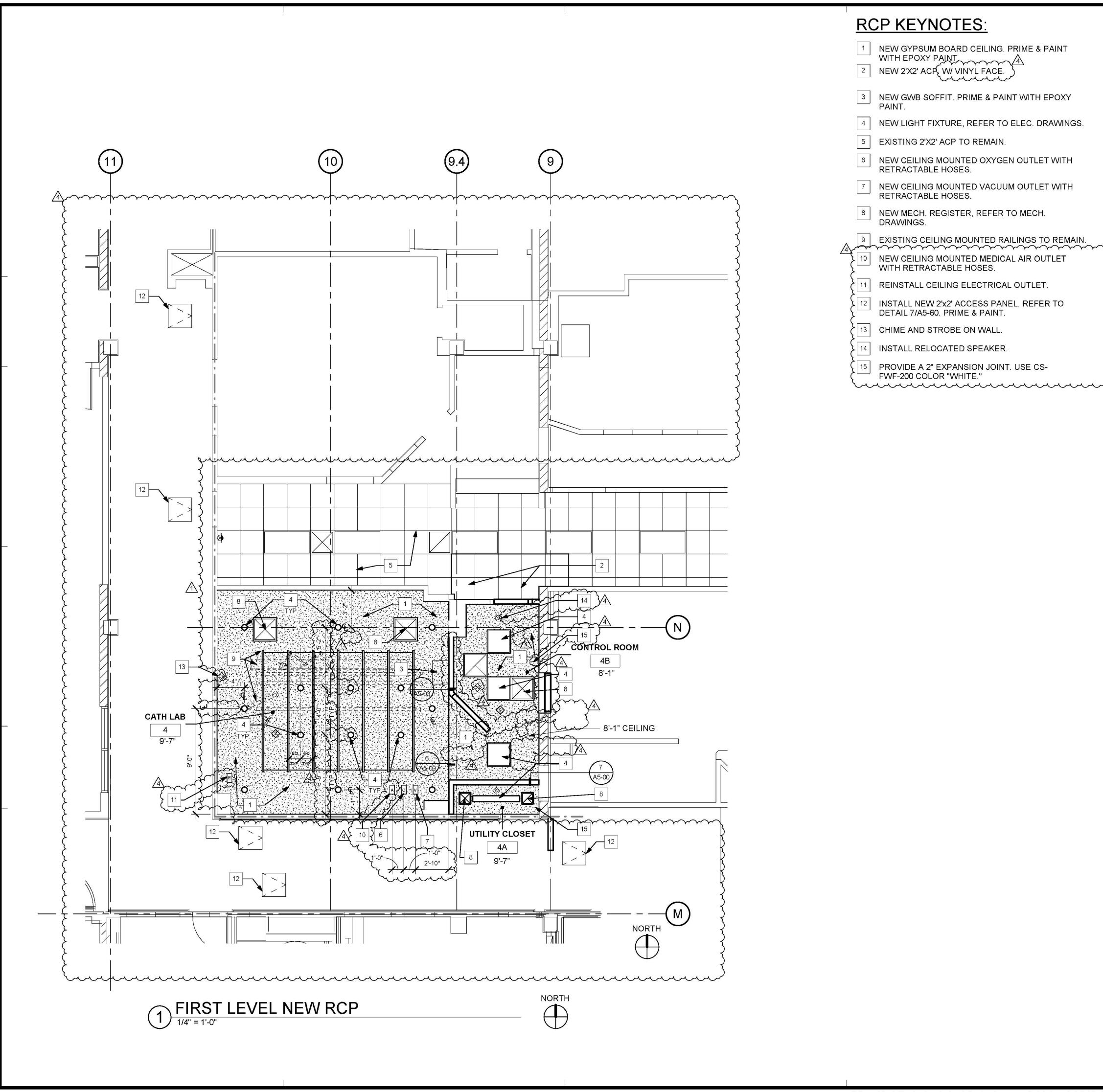
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100% CONSTRUCTION DOCUMENTS





- **GENERAL NOTES:**
- THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING
- REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION/NOT INDICATED ON THIS SHEET.
- FIRE-RESISTANT RATED WALLS AND CEILINGS SHALL BE REPAIRED OR PATCHED TO MATCH THE EXISTING RATED CONDITION IN ORDER TO MAINTAIN THE CONTINUITY OF THE RATED WALL OR CEILING SYSTEM

#### **RCP GENERAL NOTES:**

- THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL COORDINATE ALL PHASING, ACCESS DEBRIS REMOVAL, STAGING AREAS AND HOURS OF CONSTRUCTION WITH OWNER PRIOR TO START OF CONSTRUCTION.
- 3. THE GENERAL CONTRACTOR SHALL COORDINATE WITH STRUCTURAL, MEP, FIRE ALARM, FIRE PROTECTION, NURSE CALL, INTERIORS AND EQUIPMENT DRAWINGS PRIOR TO STARTING CONSTRUCTION. THE PROJECT MANUAL AND ALL DRAWINGS IN THE CONSTRUCTION DRAWINGS SHALL BE PART OF THE CONSTRUCTION DOCUMENTS.
- THE GENERAL CONTRACTOR SHALL SEPARATE DISSIMILAR METALS WITH BUILDING PAPER OR PLASTIC SHIM.
- THE GENERAL CONTRACTOR SHALL X-RAY AND/OR ULTRASOUND THE EXISTING CONCRETE FLOORS FOR ANY POSSIBLE EMBEDDED CONDUITS STRUCTURAL REBAR OR UNFORESEEN CONDITION THAT IS OUTSIDE THE SCOPE OF WORK AND MIGHT IMPEDE THE ANCHORING OF EQUIPMENT OR CONFLICT WITH TRENCHING PRIOR TO CONSTRUCTION.
- REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.
- CONTRACTOR STAGING TO BE IN THE ROOMS UNDER REMODEL
- CONTRACTOR PARKING TO BE IN CONTRACTOR DESIGNATED PARKING AREA.

THE CONTRACTOR SHALL ENSURE THAT THE AREA UNDER REMODEL IS

- LOCKED AND OTHERWISE SECURED AFTER HOURS.
- CEILING HEIGHTS TO MATCH EXISITNG UNLESS OTHERWISE NOTED (NOT LESS THAN 8'-0")
- 11. REFER TO SHEET A5-60 AND A5-70 FOR CEILING DETAILS.
- REPLACE EXISTING LENSES FOR 2X2 AND 2X4 LIGHT FIXTURES.
- 15. REPLACE ALL GRILLES, DIFFUSERS AND REGISTERS WITH NEW.

#### **MATERIAL LEGEND:**

2' X 2' ACOUSTICAL CEILING PANEL WITH TEGULAR

1'X 1' ACOUSTICAL CEILING TILE

SUSPENDED GYP. BOARD CEILING

- 2X4 RECESSED LAY-IN FLOURESCENT LIGHT FIXTURE PROVIDE (2) SLACK SAFETY WIRES AT DIAGONAL CORNERS
- 2X2 RECESSED LAY-IN FLOURESCENT LIGHT FIXTURE PROVIDE (2) SLACK SAFETY WIRES AT DIAGONAL
- RECESSED "CAN" LIGHT PROVIDE (1) SLACK SAFETY
- RECESSED "CAN" LIGHT DIRECTED TOWARD WALL PROVIDE (1) SLACK SAFETY WIRE
- **EXIT SIGN** PROVIDE (1) SLACK SAFETY WIRE
- SMOKE DETECTOR EXISTING PROVIDE (1) SLACK SAFETY WIRE
- PAGING SPEAKER
- PROVIDE (1) SLACK SAFETY WIRE
- RETURN AIR OR EXHAUST PROVIDE (2) SLACK SAFETY WIRES AT DIAGONAL
- ── 3'-0" SUPPLY AIR DIFFUSER
- SUPPLY AIR DIFFUSER PROVIDE (2) SLACK SAFETY WIRES AT DIAGONAL CORNERS
- > 2'x2' CEILING ACCESS PANEL
- 1'x1' CEILING ACCESS PANEL
- 1'x1' CEILING EXHAUST □ 1'x 1' CEILING HVAC SUPPLY
- ☐ 1'x 1' CEILING HVAC SUPPLY
- 1' x 4' FLOURESCENT CEILING LIGHT
- © CAMERA SPRINKLER
- AUDIBLE NURSE CALL
- ◇ DOME LIGHT NURSE CALL EXISTING
- ♦ CHIME STROBE

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# TCMC ANGIO TO CATH LAB RENOVATION

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DESIGN CHANGES OSHPD COMMENTS OSHPD COMMENTS CHARLE CONTRACTOR CONT DESIGN CHANGES

REV: DESCRIPTION:

OSHPD #: S170603-37-00



KC Huang, Sr. Architect Office of Statewide Health Planning & Development FACILITIES DEVELOPMENT DIVISION

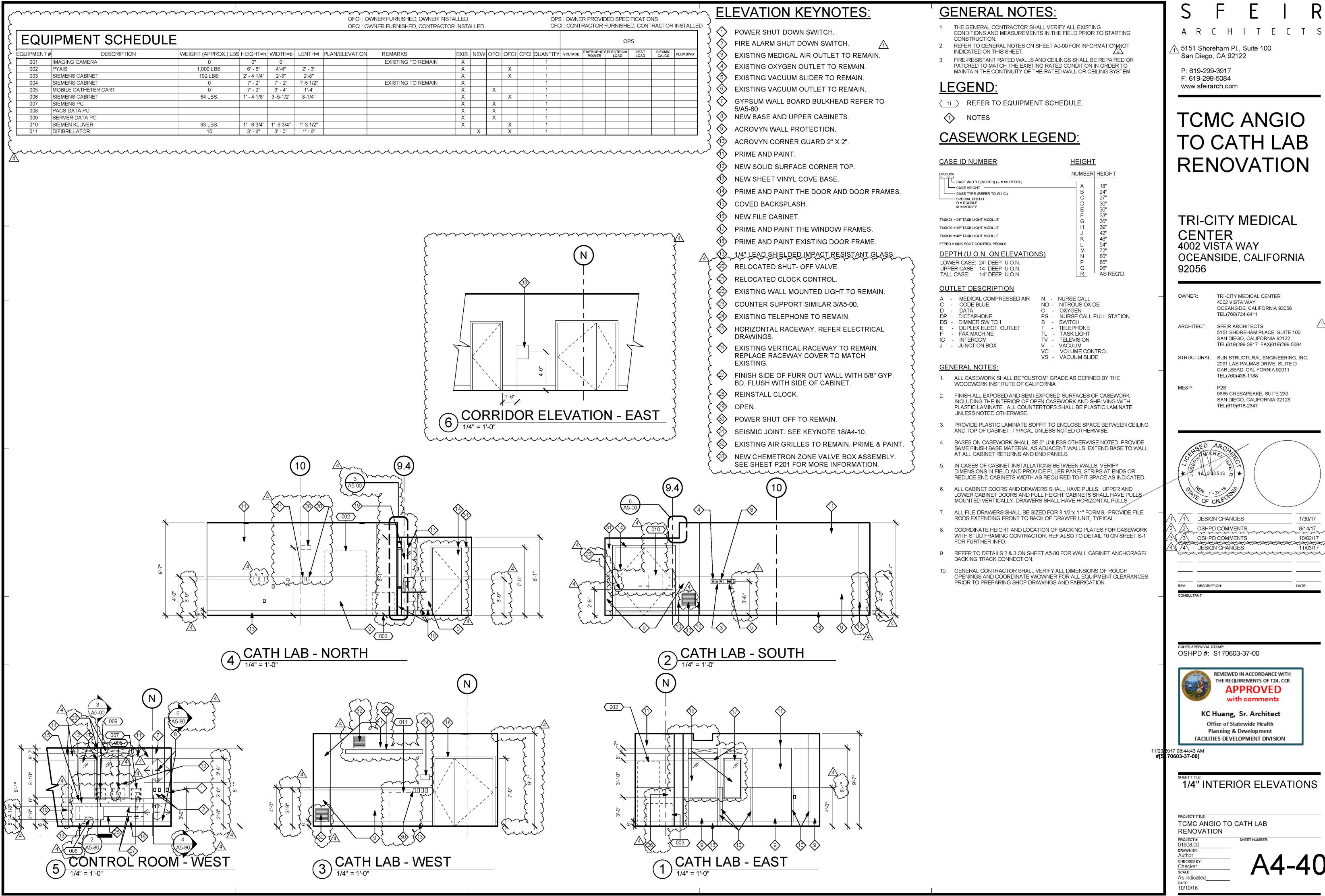
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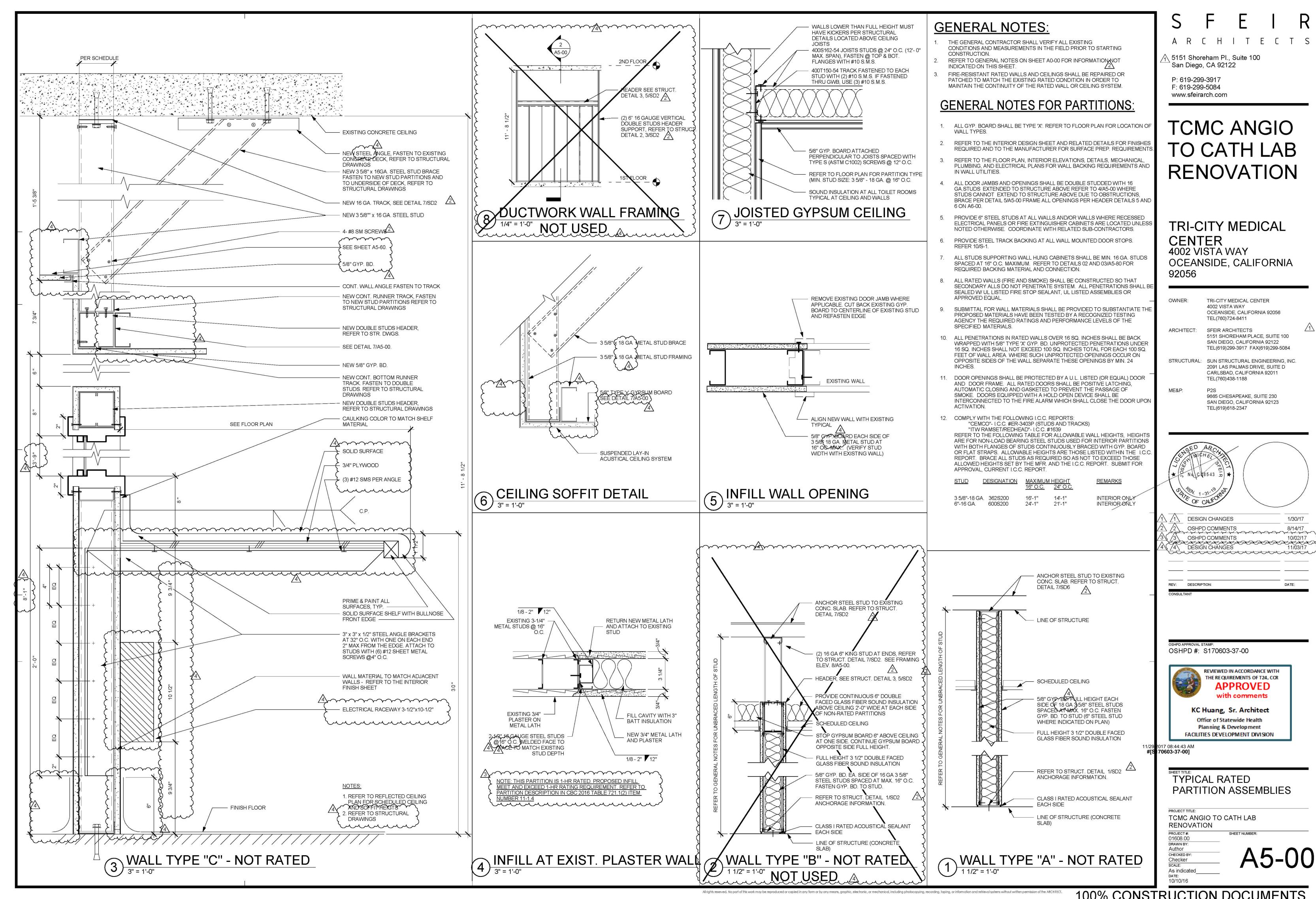
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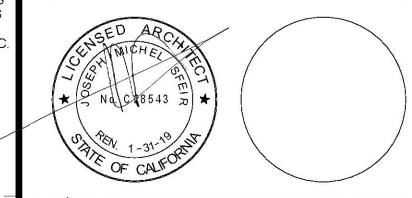
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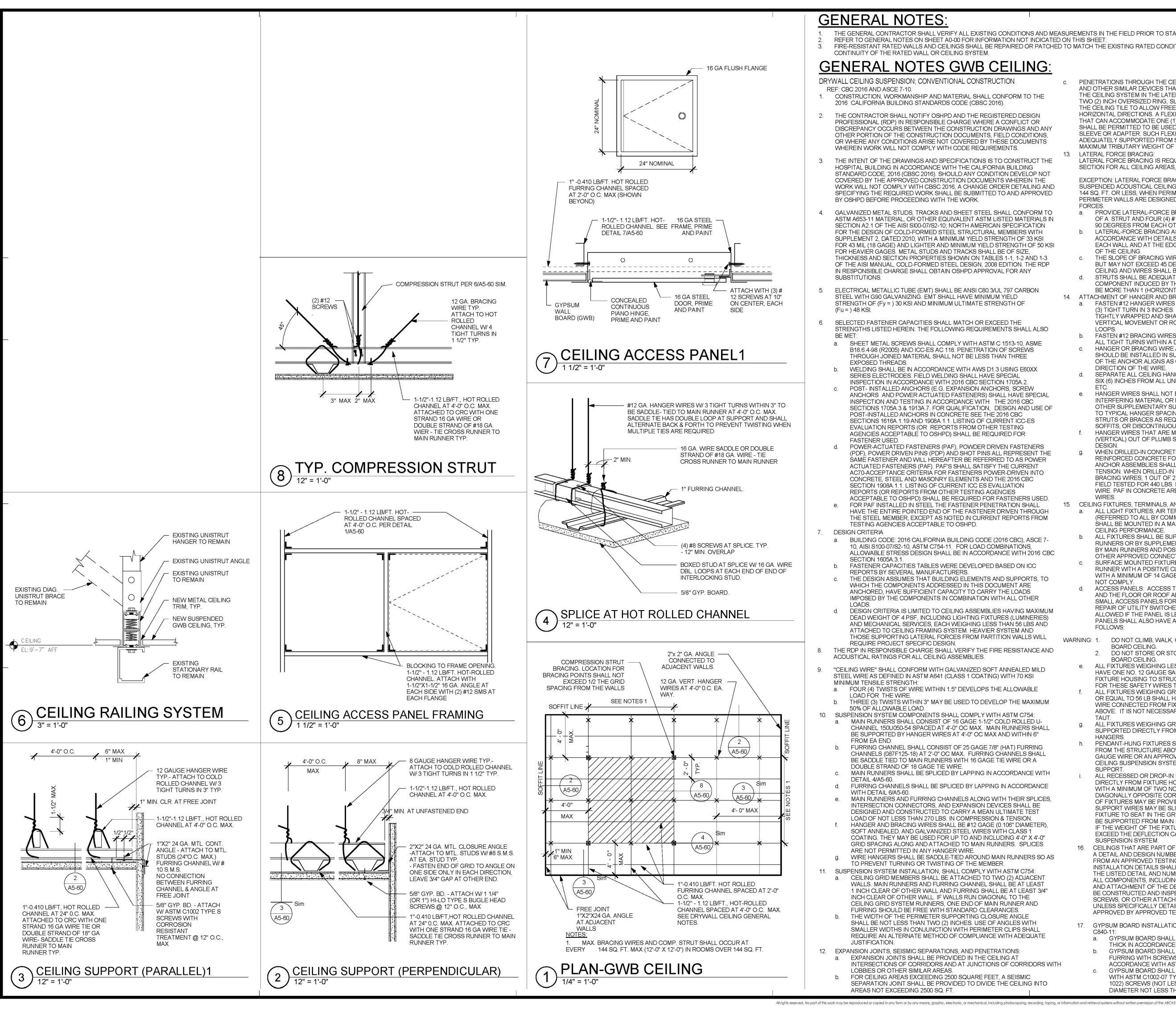
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100% CONSTRUCTION DOCUMENTS





# **GENERAL NOTES:**

THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.

REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET FIRE-RESISTANT RATED WALLS AND CEILINGS SHALL BE REPAIRED OR PATCHED TO MATCH THE EXISTING RATED CONDITION IN ORDER TO MAINTAIN THE CONTINUITY OF THE RATED WALL OR CEILING SYSTEM.

## GENERAL NOTES GWB CEILING:

DRYWALL CEILING SUSPENSION; CONVENTIONAL CONSTRUCTION REF: CBC 2016 AND ASCE 7-10.

CONSTRUCTION, WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE 2016 CALIFORNIA BUILDING STANDARDS CODE (CBSC 2016).

- THE CONTRACTOR SHALL NOTIFY OSHPD AND THE REGISTERED DESIGN PROFESSIONAL (RDP) IN RESPONSIBLE CHARGE WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE CONSTRUCTION DRAWINGS AND ANY OTHER PORTION OF THE CONSTRUCTION DOCUMENTS, FIELD CONDITIONS. OR WHERE ANY CONDITIONS ARISE NOT COVERED BY THESE DOCUMENTS WHEREIN WORK WILL NOT COMPLY WITH CODE REQUIREMENTS.
- THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE CALIFORNIA BUILDING STANDARD CODE, 2016 (CBSC 2016), SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS WHEREIN THE WORK WILL NOT COMPLY WITH CBSC 2016, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.
- GALVANIZED METAL STUDS, TRACKS AND SHEET STEEL SHALL CONFORM TO ASTM A653-11 MATERIAL, OR OTHER EQUIVALENT ASTM LISTED MATERIALS IN SECTION A2.1 OF THE AISI SI00-07/S2-10; NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS WITH SUPPLEMENT 2, DATED 2010, WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL (18 GAGE) AND LIGHTER AND MINIMUM YIELD STRENGTH OF 50 KSI FOR HEAVIER GAGES. METAL STUDS AND TRACKS SHALL BE OF SIZE. THICKNESS AND SECTION PROPERTIES SHOWN ON TABLES 1-1, 1-2 AND 1-3 OF THE AISI MANUAL, COLD-FORMED STEEL DESIGN, 2008 EDITION. THE RDP IN RESPONSIBLE CHARGE SHALL OBTAIN OSHPD APPROVAL FOR ANY SUBSTITUTIONS.
- ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3/UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH OF (Fy = ) 30 KSI AND MINIMUM ULTIMATE STRENGTH OF (Fu = ) 48 KSI.

SELECTED FASTENER CAPACITIES SHALL MATCH OR EXCEED THE STRENGTHS LISTED HEREIN. THE FOLLOWING REQUIREMENTS SHALL ALSO

- SHEET METAL SCREWS SHALL COMPLY WITH ASTM C 1513-10. ASME B18.6.4-98 (R2005) AND ICC-ES AC 118. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.
- WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES. FIELD WELDING SHALL HAVE SPECIAL INSPECTION IN ACCORDANCE WITH 2016 CBC SECTION 1705A.2 POST- INSTALLED ANCHORS (E.G. EXPANSION ANCHORS, SCREW ANCHORS AND POWER ACTUATED FASTENERS) SHALL HAVE SPECIAL INSPECTION AND TESTING IN ACCORDANCE WITH THE 2016 CBC SECTIONS 1705A.3 & 1913A.7. FOR QUALIFICATION, DESIGN AND USE OF POST-INSTALLED ANCHORS IN CONCRETE SEE THE 2016 CBC SECTIONS 1616A.1.19 AND 1908A.1.1. LISTING OF CURRENT ICC-ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD) SHALL BE REQUIRED FOR FASTENER USED.
- POWER-ACTUATED FASTENERS (PAF), POWDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP) AND SHOT PINS ALL REPRESENT THE SAMÉ FASTENER AND WILL HERÉAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF). PAF'S SHALL SATISFY THE CURRENT AC70-ACCEPTANCE CRITERIÁ FOR FASTENERS POWER-DRIVEN INTO CONCRETE. STEEL AND MASONRY ELEMENTS AND THE 2016 CBC SECTION 1908A.1.1. LISTING OF CURRENT ICC ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES
- ACCEPTABLE TO OSHPD) SHALL BE REQUIRED FOR FASTENERS USED FOR PAF INSTALLED IN STEEL THE FASTENER PENETRATION SHALL HAVE THE ENTIRE POINTED END OF THE FASTENER DRIVEN THROUGH THE STEEL MEMBER, EXCEPT AS NOTED IN CURRENT REPORTS FROM TESTING AGENCIES ACCEPTABLE TO OSHPD. DESIGN CRITERIA
- BUILDING CODE: 2016 CALIFORNIA BUILDING CODE (2016 CBC), ASCE 7-0, AISI S100-07/S2-10, ASTM C754-11. FOR LOAD COMBINATIONS, ALLOWABLE STRESS DESIGN SHALL BE IN ACCORDANCE WITH 2016 CBC SECTION 1605A.3.1.
  - FASTENER CAPACITIES TABLES WERE DEVELOPED BASED ON ICC
- REPORTS BY SEVERAL MANUFACTURERS THE DESIGN ASSUMES THAT BUILDING ELEMENTS AND SUPPORTS. TO WHICH THE COMPONENTS ADDRESSED IN THIS DOCUMENT ARE ANCHORED, HAVE SUFFICIENT CAPACITY TO CARRY THE LOADS MPOSED BY THE COMPONENTS IN COMBINATION WITH ALL OTHER
- DESIGN CRITERIA IS LIMITED TO CEILING ASSEMBLIES HAVING MAXIMUM DEAD WEIGHT OF 4 PSF. INCLUDING LIGHTING FIXTURES (LUMINERIES). AND MECHANICAL SERVICES, EACH WEIGHING LESS THAN 56 LBS AND ATTACHED TO CEILING FRAMING SYSTEM. HEAVIER SYSTEM AND THOSE SUPPORTING LATERAL FORCES FROM PARTITION WALLS WILL REQUIRE PROJECT SPECIFIC DESIGN.
- THE RDP IN RESPONSIBLE CHARGE SHALL VERIFY THE FIRE RESISTANCE AND ACOUSTICAL RATINGS FOR ALL CEILING ASSEMBLIES.

"CEILING WIRE" SHALL CONFORM WITH GALVANIZED SOFT ANNEALED MILD STEEL WIRE AS DEFINED IN ASTM A641 (CLASS 1 COATING) WITH 70 KSI MINIMUM TENSILE STRENGTH:

- FOUR (4) TWISTS OF WIRE WITHIN 1.5" DEVELOPS THE ALLOWABLE LOAD FOR THE WIRE. THREE (3) TWISTS WITHIN 3" MAY BE USED TO DEVELOP THE MAXIMUM 50% OF ALLOWABLE LOAD.
- 10. SUSPENSION SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C754: MAIN RUNNERS SHALL CONSIST OF 16 GAGE 1-1/2" COLD ROLLED U-CHANNEL 150U050-54 SPACED AT 4'-0" OC MAX. MAIN RUNNERS SHALL BE SUPPORTED BY HANGER WIRES AT 4'-0" OC MAX AND WITHIN 6" FROM EA END.
  - FURRING CHANNEL SHALL CONSIST OF 25 GAGE 7/8" (HAT) FURRING CHANNELS (087F125-18) AT 2'-0" OC MAX. FURRING CHANNELS SHALL BE SADDLE TIED TO MAIN RUNNERS WITH 16 GAGE TIE WIRE OR A DOUBLE STRAND OF 18 GAGE TIE WIRE.
- MAIN RUNNERS SHALL BE SPLICED BY LAPPING IN ACCORDANCE WITH DETAIL 4/A5-60.
- FURRING CHANNELS SHALL BE SPLICED BY LAPPING IN ACCORDANCE WITH DETAIL 6/A5-60. MAIN RUNNERS AND FURRING CHANNELS ALONG WITH THEIR SPLICES,
- INTERSECTION CONNECTORS, AND EXPANSION DEVICES SHALL BE DESIGNED AND CONSTRUCTED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 270 LBS. IN COMPRESSION & TENSION. HANGER AND BRACING WIRES SHALL BE #12 GAGE (0.106" DIAMETER), SOFT ANNEALED, AND GALVANIZED STEEL WIRES WITH CLASS 1 COATING. THEY MAY BE USED FOR UP TO AND INCLUDING 4'-0" X 4'-0"
- ARE NOT PERMITTED IN ANY HANGER WIRE WIRE HANGERS SHALL BE SADDLE-TIED AROUND MAIN RUNNERS SO AS TO PREVENT TURNING OR TWISTING OF THE MEMBER

GRID SPACING ALONG AND ATTACHED TO MAIN RUNNERS. SPLICES

- 11. SUSPENSION SYSTEM INSTALLATION, SHALL COMPLY WITH ASTM C754 CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS. MAIN RUNNERS AND FURRING CHANNEL SHALL BE AT LEAST 1 INCH CLEAR OF OTHER WALL AND FURRING SHALL BE AT LEAST 3/4" INCH CLEAR OF OTHER WALL. IF WALLS RUN DIAGONAL TO THE CEILING GRID SYSTEM RUNNERS. ONE END OF MAIN RUNNER AND FURRING SHOULD BE FREE WITH STANDARD CLEARANCES.
- THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN TWO (2) INCHES. USE OF ANGLES WITH SMALLER WIDTHS IN CONJUNCTION WITH PERIMETER CLIPS SHALL REQUIRE AN ALTERNATE METHOD OF COMPLIANCE WITH ADEQUATE JUSTIFICATION.

AREAS NOT EXCEEDING 2500 SQ. FT.

12. EXPANSION JOINTS, SEISMIC SEPARATIONS, AND PENETRATIONS: EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT NTERSECTIONS OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS WITH LOBBIES OR OTHER SIMILAR AREAS. FOR CEILING AREAS EXCEEDING 2500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO

PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN AL HORIZONTAL DIRECTIONS. A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE ONE (1) INCH OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING SLEEVE OR ADAPTER. SUCH FLEXIBLE SPRINKLER HOSE SHALL BE ADEQUATELY SUPPORTED FROM SOFFIT SO AS NOT TO EXCEED THE MAXIMUM TRIBUTARY WEIGHT OF THE CEILING.

13. LATERAL FORCE BRACING: LATERAL FORCE BRACING IS REQUIRED IN ACCORDANCE WITH THIS SECTION FOR ALL CEILING AREAS, UON.

EXCEPTION: LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQ. FT. OR LESS, WHEN PERIMETER SUPPORT ARE PROVIDED AND PERIMETER WALLS ARE DESIGNED TO CARRY THE CEILING LATERAL

- a. PROVIDE LATERAL-FORCE BRACING ASSEMBLIES CONSISTING OF A STRUT AND FOUR (4) #12 GAGE BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER.
- LATERAL-FORCE BRACING ASSEMBLIES SHALL BE SPACED IN ACCORDANCE WITH DETAILS 1/A5-60, 10/A5-60 & 14/A5-60 FROM EACH WALL AND AT THE EDGES OF ANY CHANGE OF ELEVATION OF THE CEILING. THE SLOPE OF BRACING WIRES MAY BE FROM 10 TO 45 DEGREES BUT MAY NOT EXCEED 45 DEGREES FROM THE PLANE OF THE
- CEILING AND WIRES SHALL BE TAUT. STRUTS SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES, AND SHALL NOT BE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB.
- 14. ATTACHMENT OF HANGER AND BRACING WIRES: a. FASTEN #12 HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURN IN 3 INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE
- LOOPS. FASTEN #12 BRACING WIRES WITH FOUR (4) TIGHT TURNS.MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1 1/2" INCHES. HANGER OR BRACING WIRE ANCHORED TO THE STRUCTURE
- SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE. SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST
- HANGER WIRES SHALL NOT BE ATTACHED TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTION TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS,

SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES CONDUITS,

SOFFITS, OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB SHALL REQUIRE PROJECT SPECIFIC DESIGN

STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS,

- WHEN DRILLED-IN CONCRETE ANCHORS OR PAF ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 WIRE ANCHOR ASSEMBLIES SHALL BE FIELD TESTED FOR 200 LBS. IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 WIRE/ANCHOR ASSEMBLIES SHALL B FIELD TESTED FOR 440 LBS. IN TENSION IN THE DIRECTION OF THE WIRE. PAF IN CONCRETE ARE NOT PERMITTED FOR BRACING
- 15. CEILING FIXTURES, TERMINALS, AND DEVICES: a. ALL LIGHT FIXTURES, AIR TERMINALS/GRILLS, OR OTHER DEVICES (REFERRED TO ALL BY COMMON TERM FIXTURES HEREAFTER) SHALL BE MOUNTED IN A MANNER THAT WILL NOT COMPROMÍS
  - CEILING PERFORMANCE. ALL FIXTURES SHALL BE SUPPORTED DIRECTLY BY MAIN RUNNERS OR BY SUPPLEMENTAL FRAMING WHICH IS SUPPORTE BY MAIN RUNNERS AND POSITIVELY ATTACHED WITH SCREWS OF
  - OTHER APPROVED CONNECTORS. SURFACE MOUNTED FIXTURES SHALL BE ATTACHED TO A MAIN RUNNER WITH A POSITIVE CLAMPING DEVICE MADE OF MATERIAL WITH A MINIMUM OF 14 GAGE. ROTATIONAL SPRING CLAMPS DO
  - NOT COMPLY. ACCESS PANELS: ACCESS TO THE SPACE BETWEEN THE CEILING AND THE FLOOR OR ROOF ABOVE SHALL NOT BE ALLOWED. SMALL ACCESS PANELS FOR THE INSPECTION, ADJUSTMENT, OR REPAIR OF UTILITY SWITCHES, VALVES, SENSORS, ETC. MAY BE ALLOWED IF THE PANEL IS LESS THAN 300 SQUARE INCHES. SUCH PANELS SHALL ALSO HAVE A PERMANENT WARNING LABEL AS FOLLOWS:

WARNING: 1. DO NOT CLIMB, WALK, OR CRAWL ON THE GYPSUM BOARD CEILING. DO NOT STORE OR STOW ANYTHING ON THE GYPSUM

- BOARD CEILING. ALL FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE ONE NO. 12 GAUGE SAFETY WIRE CONNECTED FROM FIXTURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSAR' FOR THESE SAFETY WIRES TO BE TAUT
- ALL FIXTURES WEIGHING GREATER THAN 10 LB BUT LESS THAN OR EQUAL TO 56 LB SHALL HAVE TWO NO. 12 GAUGE SAFETY WIRE CONNECTED FROM FIXTURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE
- ALL FIXTURES WEIGHING GREATER THAN 56 LB SHALL BE SUPPORTED DIRECTLY FROM STRUCTURE ABOVE BY APPROVED HANGERS.
- PENDANT-HUNG FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE USING NO LESS THAN NO. 0-GAUGE WIRE OR AN APPROVED ALTERNATE SUPPORT. THE CEILING SUSPENSION SYSTEM SHALL NOT PROVIDE ANY DIRECT

ALL RECESSED OR DROP-IN FIXTURES SHALL BE SUPPORTED DIRECTLY FROM FIXTURE HOUSING TO THE STRUCTURE ABOVE WITH A MINIMUM OF TWO NO. 12 GAUGE WIRES LOCATED AT DIAGONALLY OPPOSITE CORNERS. LEVELING OR POSITIONING OF FIXTURES MAY BE PROVIDED BY CEILING GRID. FIXTURE SUPPORT WIRES MAY BE SLIGHTLY LOOSE TO ALLOW THE FIXTURE TO SEAT IN THE GRID SYSTEM. FIXTURES SHALL NOT BE SUPPORTED FROM MAIN RUNNERS OR FURRING CHANNELS IF THE WEIGHT OF THE FIXTURES CAUSES TOTAL DEAD LOAD TO EXCEED THE DEFLECTION CAPABILITY OF THE CEILING SUSPENSION SYSTEM.

- CEILINGS THAT ARE PART OF A FIRE RATED ASSEMBLY: PROVIDE A DETAIL AND DESIGN NUMBER FOR RATED CEILING ASSEMBLIES FROM AN APPROVED TESTING AGENCY. THE COMPONENTS AND INSTALLATION DETAILS SHALL CONFORM IN EVERY RESPECT WIT THE LISTED DETAIL AND NUMBER. DETAILS SHALL CLEARLY DEPIC ALL COMPONENTS, INCLUDING INSULATION MATERIALS, FRAMING AND ATTACHMENT OF THE DESIGN SO THAT THE ASSEMBLY CAN BE CONSTRUCTED AND INSPECTED ACCORDINGLY. POP RIVETS SCREWS, OR OTHER ATTACHMENTS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS AND APPROVED BY APPROVED TESTING AGENCY.
- 17. GYPSUM BOARD INSTALLATION SHALL COMPLY WITH ASTM C840-11:
  - GYPSUM BOARD SHALL CONSIST OF SINGLE-PLY 1/2" OR 5/8 THICK IN ACCORDANCE WITH ASTM C11-10a. GYPSUM BOARD SHALL BE INSTALLED PERPENDICULAR TO
  - FURRING WITH SCREWS AT 12" OC MAXIMUM, IN ACCORDANCE WITH ASTM C840-11 GYPSUM BOARD SHALL BE ATTACHED TO FURRING/FRAMING WITH ASTM C1002-07 TYPE S (ASTM A568-11b GRADES 1018 TO 1022) SCREWS (NOT LESS THAN, NO. 6, WITH MAJOR DIAMETER NOT LESS THAN 0.136 IN).

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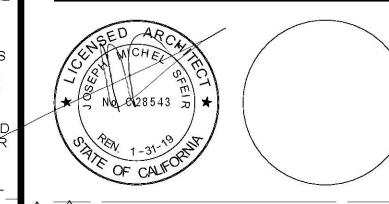
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1/30/17 **DESIGN CHANGES** 8/14/17 OSHPD COMMENTS OSHPD COMMENTS 10/02/17 DESIGN CHANGES <del>ttuuuuuuuu</del>

REV: DESCRIPTION: DATE:

OSHPD #: S170603-37-00



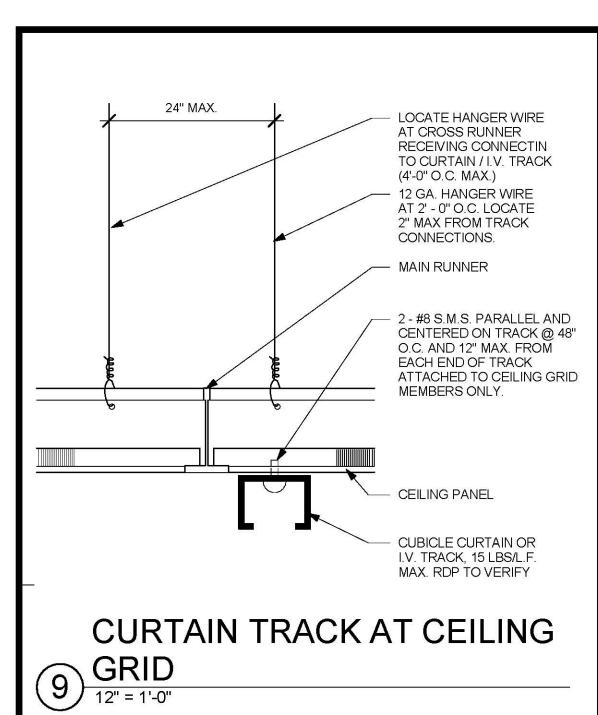
KC Huang, Sr. Architect Office of Statewide Health Planning & Development FACILITIES DEVELOPMENT DIVISION

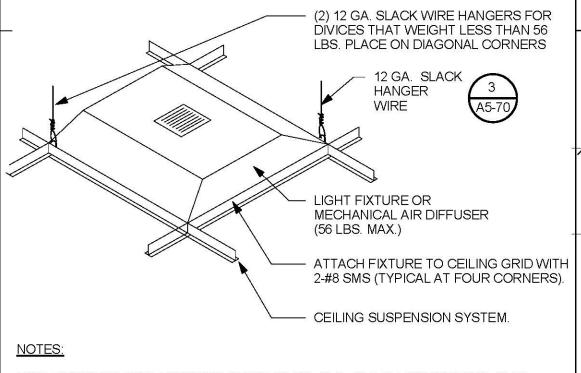
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**GYPSUM CEILING DETAILS** 

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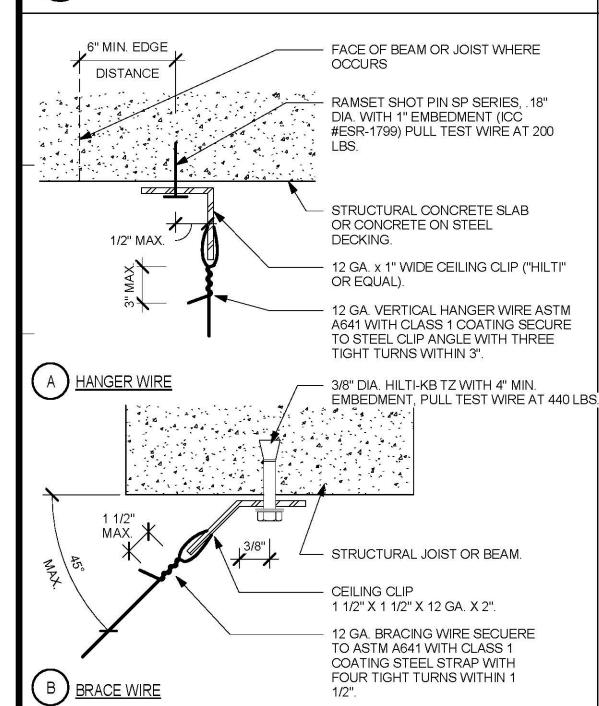




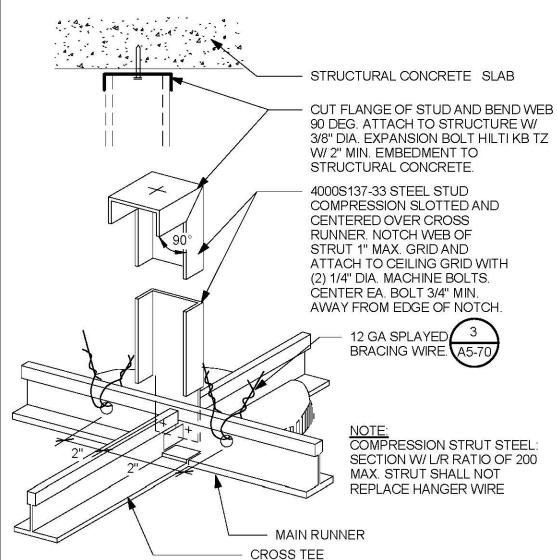
FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 lbs SHALL HAVE ONE NO. 12 GA. SAFETY WIRE CONNECTED FROM FIXTURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT

FIXTURES WEIGHING GREATER THAN 10 lbs BUT LESS THAN OR EQUAL TO 56 lbs SHALL HAVE TWO NO. 12GA. SAFETY WIRE CONNECTED FROM FIXTURE HOUSING TO STRUCTURE ABOVE IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT. FIXTURES OVER 56 lbs. SHALL BE SUPPORTED DIRECTLY FROM STRUCTURE ABOVE BY APPROVED HANGERS.

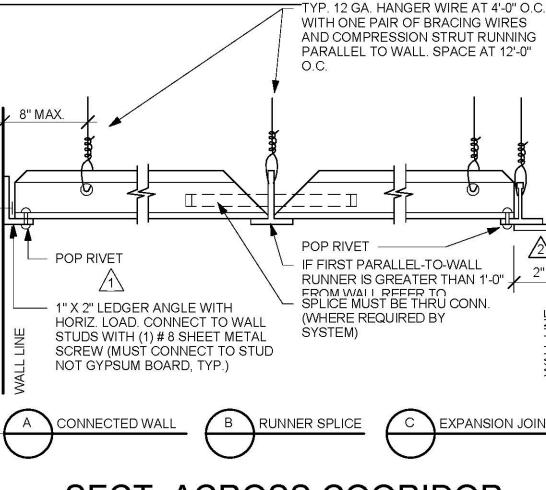
# FIXTURE SUSPENSION



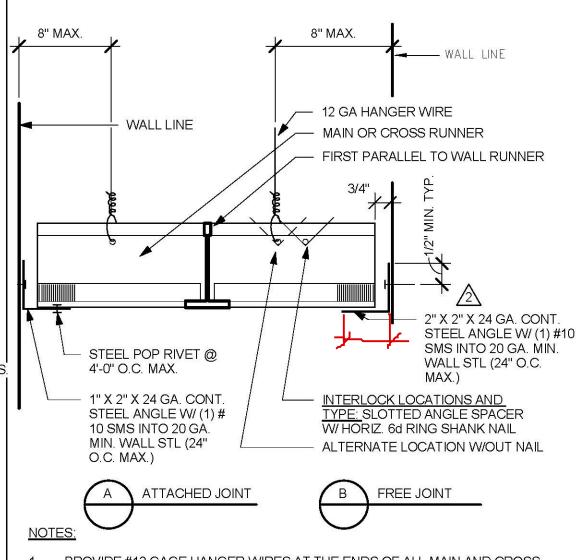
SUSPENSION WIRE CONNECTION @ CONC. DECK



# VERTICAL COMPRESSION 8 STRUT



SECT. ACROSS COORIDOR 5 AT EXP. JT.



PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.

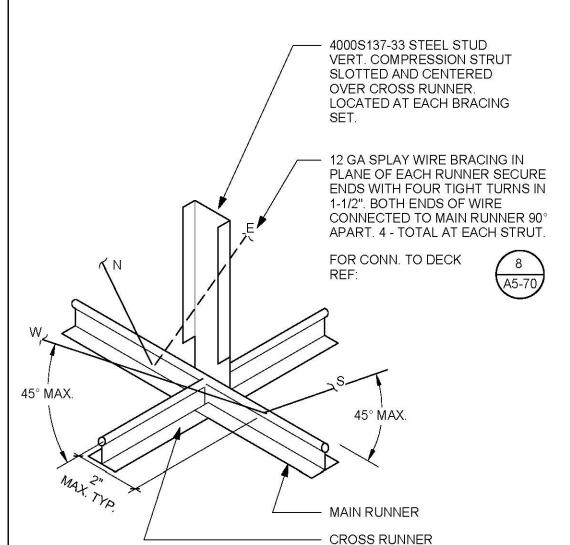
NAILS AT ENDS OF HORIZONTAL STRUTS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT.

4. STEEL POP RIVETS SHALL HAVE MINIMUM ALLOWABLE SHEAR STRENGTH OF

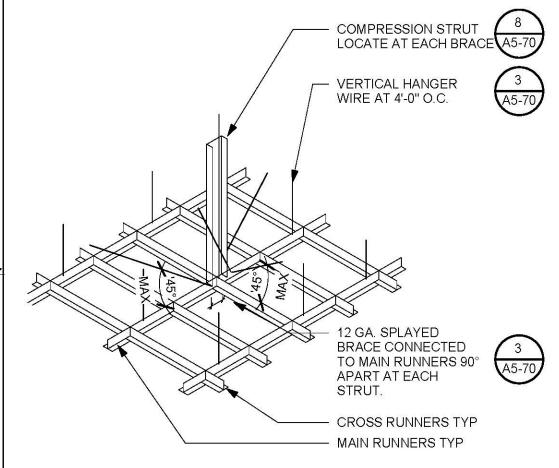
3. SPACERS MAY BE SLOTTED APPROVED ANGLES OR CHANNELS WITH "DIAMOND POINTS" OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT MOVEMENT OF STRUT

2 HORIZONTAL SLIP JOINT

120# AND ULTIMATE SHEAR STRENGTH OF 300#.

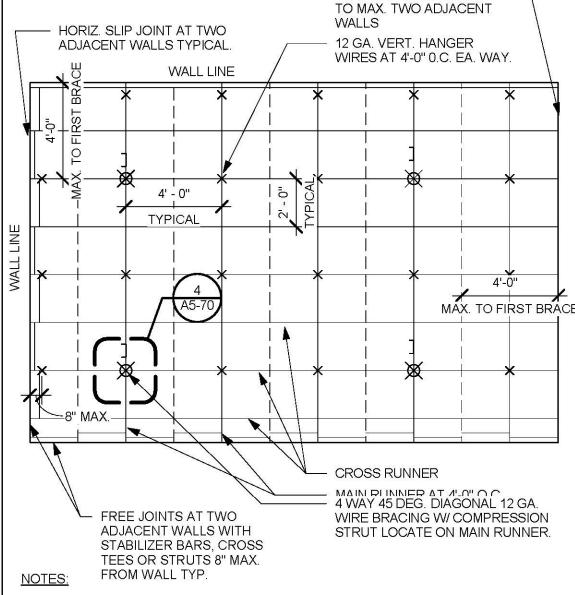


SWAY BRACE CONNECTION - LAY IN CEILING



# CEILING GRID ATTACHMENT 4 - LAY IN PANEL CEILING

1"x 2" ANGLE CONNECTED



1. TYPICAL 2X4 LAY-IN ACOUSTIC TILE CEILING SHOWN SOLID, 2X2SHOWN DASHED

BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 64 SQ. (8'-0" X 8'-0" MAX.) IN ROOMS OVER 64 SQ. FT

MAX. BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 96 SQ. FT. MAX. (8'-0" X 12'-0") IN ROOMS OVER 96 SQ. FT.

MAX. BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 144 SQ. FT. MAX. (12'-0" X 12'-0") IN ROOMS OVER 144 SQ. FT.

DIAGRAMMATIC CEILING PLAN-LAY IN CEILING

## **GENERAL NOTES LAY-IN CEILING:**

CONSTRUCTION, WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE 2016 CALIFORNIA BUILDING STANDARDS CODE (CBSC 2016).

THE CONTRACTOR SHALL NOTIFY OSHPD AND THE REGISTERED DESIGN PROFESSIONAL (RDP) IN RESPONSIBLE CHARGE WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE CONSTRUCTION DRAWINGS AND ANY OTHER PORTION OF THE CONSTRUCTION DOCUMENTS. FIELD CONDITIONS, OR WHERE ANY CONDITIONS ARISE NOT COVERED BY THESE DOCUMENTS WHEREIN WORK WILL NOT COMPLY WITH CODE REQUIREMENTS.

THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE CALIFORNIA BUILDING STANDARD CODE, 2016 (CBSC 2016). SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS WHEREIN THE WORK WILL NOT COMPLY WITH CBSC 2016, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING

GALVANIZED METAL STUDS, TRACKS AND SHEET STEEL SHALL CONFORM TO ASTM A653-11 MATERIAL, OR OTHER EQUIVALENT ASTM LISTED MATERIALS IN SECTION A2.1 13. LATERAL FORCE BRACING OF THE AISI SI00-07/S2-10; NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS WITH SUPPLEMENT 2, DATED 2010. WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL (18 GAGE) AND LIGHTER AND MINIMUM YIELD STRENGTH OF 50 KSI FOR HEAVIER GAGES. METAL STUDS AND TRACKS SHALL BE OF SIZE, THICKNESS AND SECTION PROPERTIES SHOWN ON TABLES 1-1, 1-2 AND 1-3 OF THE AISI MANUAL, COLD-FORMED STEEL DESIGN, 2008 EDITION. THE RDP IN RESPONSIBLE CHARGE SHALL OBTAIN OSHPD APPROVAL FOR

ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3/UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH OF (Fy = ) 30 KSI AND MINIMUM ULTIMATE STRENGTH OF (Fu = ) 48 KSI.

SELECTED FASTENER CAPACITIES SHALL MATCH OR EXCEED THE STRENGTHS LISTED HEREIN. THE FOLLOWING REQUIREMENTS SHALL ALSO BE MET:

SHEET METAL SCREWS SHALL COMPLY WITH ASTM C 1513-10, ASME B18.6.4-98 (R2005) AND ICC-ES AC 118. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.

WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES. FIELD WELDING SHALL HAVE SPECIAL INSPECTION IN ACCORDANCE WITH 2016 CBC SECTION 1705A.2

POST- INSTALLED ANCHORS (E.G. EXPANSION ANCHORS, SCREW ANCHORS AND POWER ACTUATED FASTENERS) SHALL HAVE SPECIAL INSPECTION AND TESTING IN ACCORDANCE WITH THE 2016 CBC SECTIONS 1705A.3 & 1913A.7. FOR QUALIFICATION, DESIGN AND USE OF POST-INSTALLED ANCHORS IN CONCRETE SEE THE 2016 CBC SECTIONS 1616A.1.19 AND 1908A.1.1. LISTING OF CURRENT ICC-ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD) SHALL BE REQUIRED FOR FASTENER USED

POWER-ACTUATED FASTENERS (PAF), POWDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP) AND SHOT PINS ALL REPRESENT THE SAME FASTENER AND WILL HEREAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF), PAF'S SHALL SATISFY THE CURRENT AC70-ACCEPTANCE CRITERIA FOR FASTENERS POWER-DRIVEN INTO CONCRETE, STEEL AND MASONRY ELEMENTS AND THE 2016 CBC SECTION 1908A.1.1. LISTING OF CURRENT ICC ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD) SHALL BE REQUIRED FOR FASTENERS

FOR PAF INSTALLED IN STEEL THE FASTENER PENETRATION SHALL HAVE THE ENTIRE POINTED END OF THE FASTENER DRIVEN THROUGH THE STEEL MEMBER, EXCEPT AS NOTED IN CURRENT REPORTS FROM TESTING AGENCIES ACCEPTABLE TO OSHPD.

DESIGN CRITERIA

THE WIRE

SECTION 5.1:

BUILDING CODE: 2016 CALIFORNIA BUILDING CODE (2016 CBC), ASCE 7-10, AISI S100-07/S2-10, ASTM E580-11b, C635-12, AND C636-08. FOR LOAD COMBINATIONS, ALLOWABLE STRESS DESIGN SHALL BE IN ACCORDANCE WITH 2016 CBC

FASTENER CAPACITIES TABLES WERE DEVELOPED BASED ON ICC REPORTS BY SEVERAL MANUFACTURERS.

THE DESIGN ASSUMES THAT BUILDING ELEMENTS AND SUPPORTS. TO WHICH THE COMPONENTS ADDRESSED IN THIS DOCUMENT ARE ANCHORED. HAVE SUFFICIENT CAPACITY TO CARRY THE LOADS IMPOSED BY THE COMPONENTS IN COMBINATION WITH ALL OTHER LOADS. EVALUATION OF THE CAPACITY OF THESE SUPPORTING BUILDING ELEMENTS IS BEYOND THE SCOPE OF THE OPD.

DESIGN IS LIMITED TO CEILING ASSEMBLIES HAVING MAXIMUM DEAD WEIGHT OF 4 PSF, INCLUDING LIGHTING FIXTURES (LUMINERIES) AND MECHANICAL SERVICES, EACH WEIGHING LESS THAN 56 LBS AND ATTACHED TO CEILING FRAMING SYSTEM. HEAVIER SYSTEM AND THOSE SUPPORTING LATERAL FORCES FROM PARTITION WILL REQUIRE PROJECT SPECIFIC DESIGN.

THE RDP IN RESPONSIBLE CHARGE SHALL VERIFY THE FIRE RESISTANCE AND ACOUSTICAL RATINGS FOR ALL CEILING ASSEMBLIES.

"CEILING WIRE" SHALL CONFORM WITH GALVANIZED SOFT ANNEALED MILD STEEL WIRE AS DEFINED IN ASTM A641 (CLASS 1 COATING) WITH 70 KSI MINIMUM TENSILE

FOUR (4) TWISTS OF WIRE WITHIN 1.5" DEVELOPS THE ALLOWABLE LOAD FOR

THREE (3) TWISTS WITHIN 3" MAY BE USED TO DEVELOP THE MAXIMUM 50% OF ALLOWABLE LOAD.

SUSPENSION SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635 AND E580

THE CEILING GRID SYSTEM SHALL BE RATED HEAVY DUTY AS DEFINED BY ASTM

HANGER AND BRACING WIRES SHALL BE #12 GAGE (0.106" DIAMETER), SOFT ANNEALED. AND GALVANIZED STEEL WIRES WITH CLASS 1 COATING. THEY MAY BE USED FOR UP TO AND INCLUDING 4'-0" X 4'-0" GRID SPACING ALONG AND

ATTACHED TO MAIN RUNNERS. SPLICES ARE NOT PERMITTED IN ANY HANGER

MAIN RUNNERS AND CROSS RUNNERS ALONG WITH THEIR SPLICES, INTERSECTION CONNECTORS. AND EXPANSION DEVICES SHALL BE DESIGNED AND CONSTRUCTED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 180 LBS. IN COMPRESSION & TENSION, IN ACCORDANCE WITH ASTM 580

SUSPENSION SYSTEM INSTALLATION, SHALL COMPLY WITH ASTM C636 AND E580 SECTION 5.2:

PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.

CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS, IN 16. ADDITIONAL REQUIREMENTS ACCORDANCE WITH ASTM E580 SECTION 5.2.3. CEILING GRID MEMBERS SHALL BE AT LEAST 3/4" INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONAL TO THE CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE, AND A MINIMUM OF 3/4 INCH CLEAR OF WALL

THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN TWO (2) INCHES. USE OF ANGLES WITH SMALLER WIDTHS IN CONJUNCTION WITH PERIMETER CLIPS SHALL REQUIRE AN ALTERNATE METHOD OF COMPLIANCE WITH ADEQUATE JUSTIFICATION.

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 GAGE WIRE WITH A POSITIVE MECHANICAL CONNECTION TO RUNNER MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS EIGHT (8) INCHES OR LESS, THIS INTERCONNECTION IS NOT REQUIRED.

12. EXPANSION JOINTS, SEISMIC SEPARATIONS, AND PENETRATIONS:

EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT INTERSECTIONS OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS WITH LOBBIES OR OTHER SIMILAR AREAS.

AREAS NOT EXCEEDING 2500 SQ. FT.

FOR CEILING AREAS EXCEEDING 2500 SQUARE FEET, A SEISMIC

SEPARATION JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO

PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING. SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE ONE (1) INCH OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE OF ADAPTER. SUCH FLEXIBLE SPRINKLER HOSE SHALL BE ADEQUATELY SUPPORTED FROM SOFFIT SO AS NOT TO EXCEED THE MAXIMUM TRIBUTARY WEIGHT OF THE CEILING.

LATERAL FORCE BRACING IS REQUIRED IN ACCORDANCE WITH THIS SECTION FOR ALL CEILING AREAS, UON.

EXCEPTION: LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQ. FT. OR LESS, WHEN PERIMETER SUPPORT IN ACCORDANCE WITH ASTM E580 ARE PROVIDED AND PERIMETER WALLS ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES.

PROVIDE LATERAL-FORCE BRACING ASSEMBLIES CONSISTING OF A STRUT AND FOUR (4) #12 GAGE BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER.

LATERAL-FORCE BRACING ASSEMBLIES SHALL BE SPACED IN ACCORDANCE WITH DETAILS 8/A5-70 & 11/A5-70. FROM EACH WALL AND AT THE EDGES OF ANY CHANGE OF ELEVATION OF THE CEILING.

THE SLOPE OF BRACING WIRES MAY BE FROM 10 TO 45 DEGREES BUT MAY NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND

STRUTS SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES, AND SHALL NOT BE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB.

ATTACHMENT OF HANGER AND BRACING WIRES

TURN IN 3 INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS

FASTEN #12 HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT

FASTEN #12 BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1 1/2" INCHES.

HANGER OR BRACING WIRE ANCHORED TO THE STRUCTURE SHOULD B INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE.

SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES CONDUITS, ETC.

HANGER WIRES SHALL NOT BE ATTACHED TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. PROVIDE TRAPEZE OR OTHER

SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACE AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS

HANGER WIRES THAT ARE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB SHALL REQUIRE PROJECT SPECIFIC DESIGN.

WHEN DRILLED-IN CONCRETE ANCHORS OR PAF ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 WIRE/ ANCHOR ASSEMBLIES SHALL BE FIELD TESTED FOR 200 LBS. IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 WIRE/ANCHOR ASSEMBLIES SHALL BEFIELD TESTED

FOR 440 LBS 15. CEILING FIXTURES, TERMINALS, AND DEVICES CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES. AIR TERMINALS/GRILLS, OR OTHER DEVICES (REFERRED TO ALL BY

COMMON TERM FIXTURES HERE AFTER). ALL FIXTURES SHALL BE MOUNTED IN A MANNER THAT WILL NOT COMPROMISE CEILING PERFORMANCE

ALL FIXTURES SHALL BE ATTACHED TO THE SUSPENDED CEILING SYSTEM BY MECHANICAL MEANS, UNLESS INDEPENDENTLY SUPPORTED. THE ATTACHMENT DEVICE SHALL HAVE THE CAPACITY OF

100% OF FIXTURE WEIGHT ACTING IN ANY DIRECTION. A MINIMUM OF TWO ATTACHMENT DEVICES ARE REQUIRED FOR EACH FIXTURE. SURFACE MOUNTED FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH POSITIVE CLAMPING DEVICES MADE OF MATERIAL WITH A

MINIMUM 14 GAGE. A NO.12 GAUGE SAFETY WIRES SHALL BE ATTACHED BETWEEN THE CLAMPING DEVICE AND TO THE STRUCTURE ABOVE. IN NO CASE SHALL THE FIXTURES EXCEED THE DESIGN CAPACITY OF THE SUPPORTING MEMBERS.

ALL FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE ONE NO. 12 GAUGE SAFETY WIRE CONNECTED FROM FIXTURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT.

ALL FIXTURES WEIGHING GREATER THAN 10 LB BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO NO. 12 GAUGE SAFETY WIRE CONNECTED FROM FIXTURE HOUSING TO STRUCTURE ABOVE. IT IS NOT

NECESSARY FOR THESE SAFETY WIRES TO BE TAUT.

ALL FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM STRUCTURE ABOVE BY APPROVED HANGERS.

PENDENT-HUNG FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE USING NO LESS THAN NO. 9-GAUGE WIRE OR AN APPROVED ALTERNATE SUPPORT. THE CEILING SUSPENSION SYSTEM SHALL NOT PROVIDE ANY DIRECT SUPPORT.

ALL RECESSED OR DROP-IN FIXTURES SHALL BE SUPPORTED DIRECTLY FROM FIXTURE HOUSING TO THE STRUCTURE ABOVE WITH A MINIMUM OF TWO NO. 12 GAUGE WIRES LOCATED AT DIAGONALLY OPPOSITE CORNERS. LEVELING OR POSITIONING OF FIXTURES MAY BE PROVIDED BY CEILING GRID. FIXTURE SUPPORT WIRES MAY BE SLIGHTLY LOOSE TO ALLOW THE FIXTURE TO SEAT IN THE GRID SYSTEM. FIXTURES SHALL NOT BE SUPPORTED FROM MAIN RUNNERS OR CROSS RUNNERS IF THE WEIGHT OF THE FIXTURES CAUSES TOTAL DEAD LOAD TO EXCEED THE DEFLECTION CAPABILITY OF THE CEILING SUSPENSION 11/29 2017 08:44:43 AM #[S 70603-37-00] SYSTEM.

CEILINGS THAT ARE PART OF A FIRE RATED ASSEMBLY: PROVIDE A DETAIL AND DESIGN NUMBER FOR RATED CEILING ASSEMBLIES FROM AN APPROVED TESTING AGENCY. THE COMPONENTS AND INSTALLATIO DETAILS CONFORM IN EVERY RESPECT WITH THE LISTED DETAIL AND NUMBER. DETAILS SHALL CLEARLY DEPICT ALL COMPONENTS. INCLUDING INSULATION MATERIALS. FRAMING AND ATTACHMENT OF THE DESIGN SO THAT THE ASSEMBLY CAN BE CONSTRUCTED AND INSPECTED ACCORDINGLY. POP RIVETS, SCREWS, OR OTHER ATTACHMENTS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY DETAILE ON THE DRAWINGS AND APPROVED BY APPROVED TESTING AGENCY.

METAL AND OTHER PANELS: METAL PANELS AND PANELS WEIGHING MORE THAN 1/2 PSF, OTHER THAN MINERAL FIBER ACOUSTICAL TILE, ARE TO BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION

BUILDING EXIT WAYS: CEILINGS IN EXIT WAYS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 13.5.6.2.2(1) OF ASCE 7-10 AS AMENDED BY 2016 CBC SECTION 1616A.1.20. SPLICES OR INTERSECTION OF RUNNERS SHALL BE ATTACHED WITH THROUGH CONNECTORS SUCH AS POP RIVETS, SCREWS, PINS, SYSTEM.

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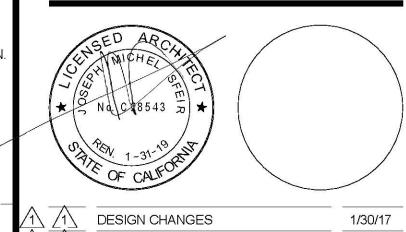
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> 9665 CHESAPEAKE, SUITE 230 SAN DIEGO, CALIFORNIA 92123 TEL(619)618-2347



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OSHPD #: S170603-37-00



KC Huang, Sr. Architect Office of Statewide Health Planning & Development FACILITIES DEVELOPMENT DIVISION

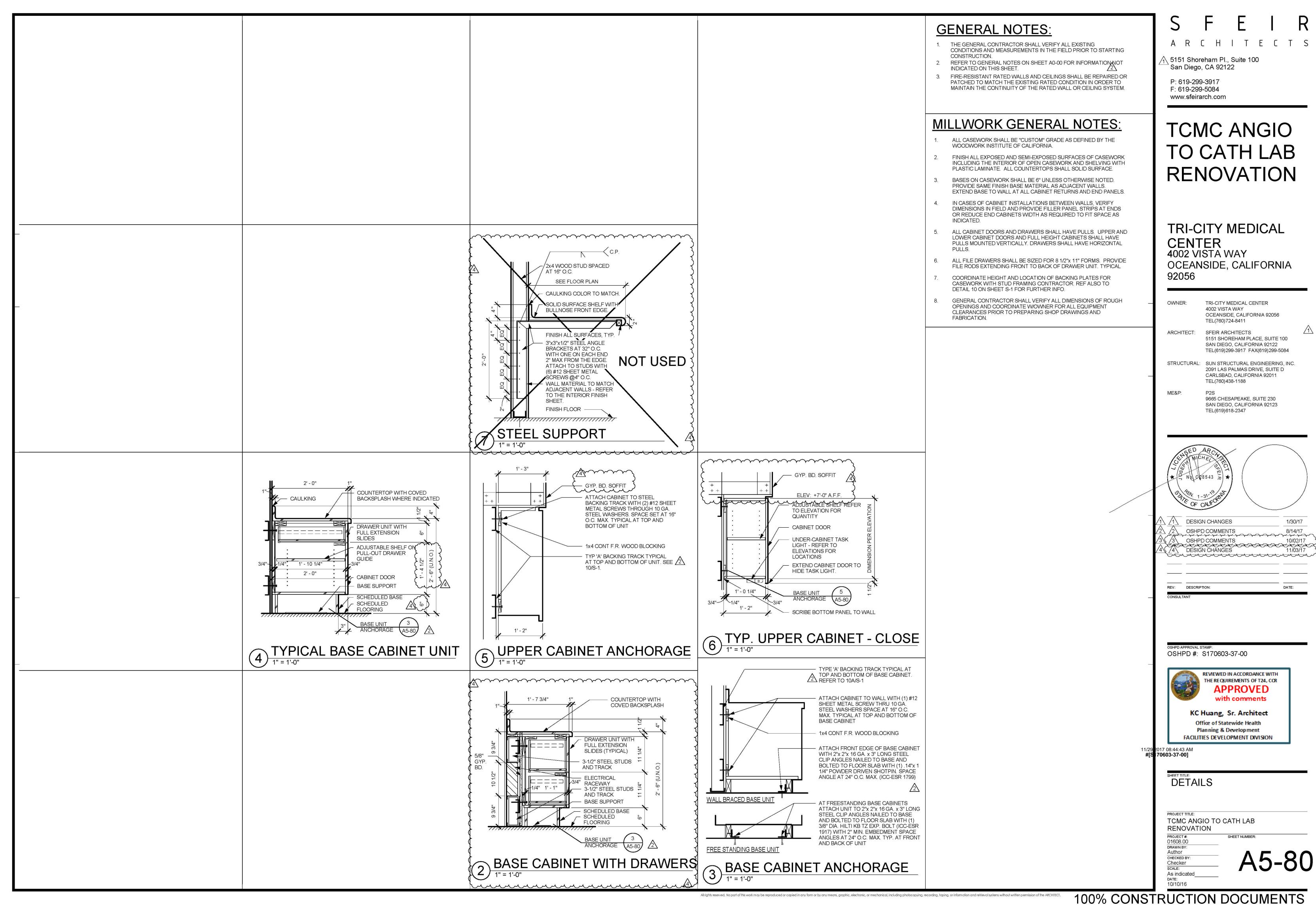
LAY IN CEILING DETAILS

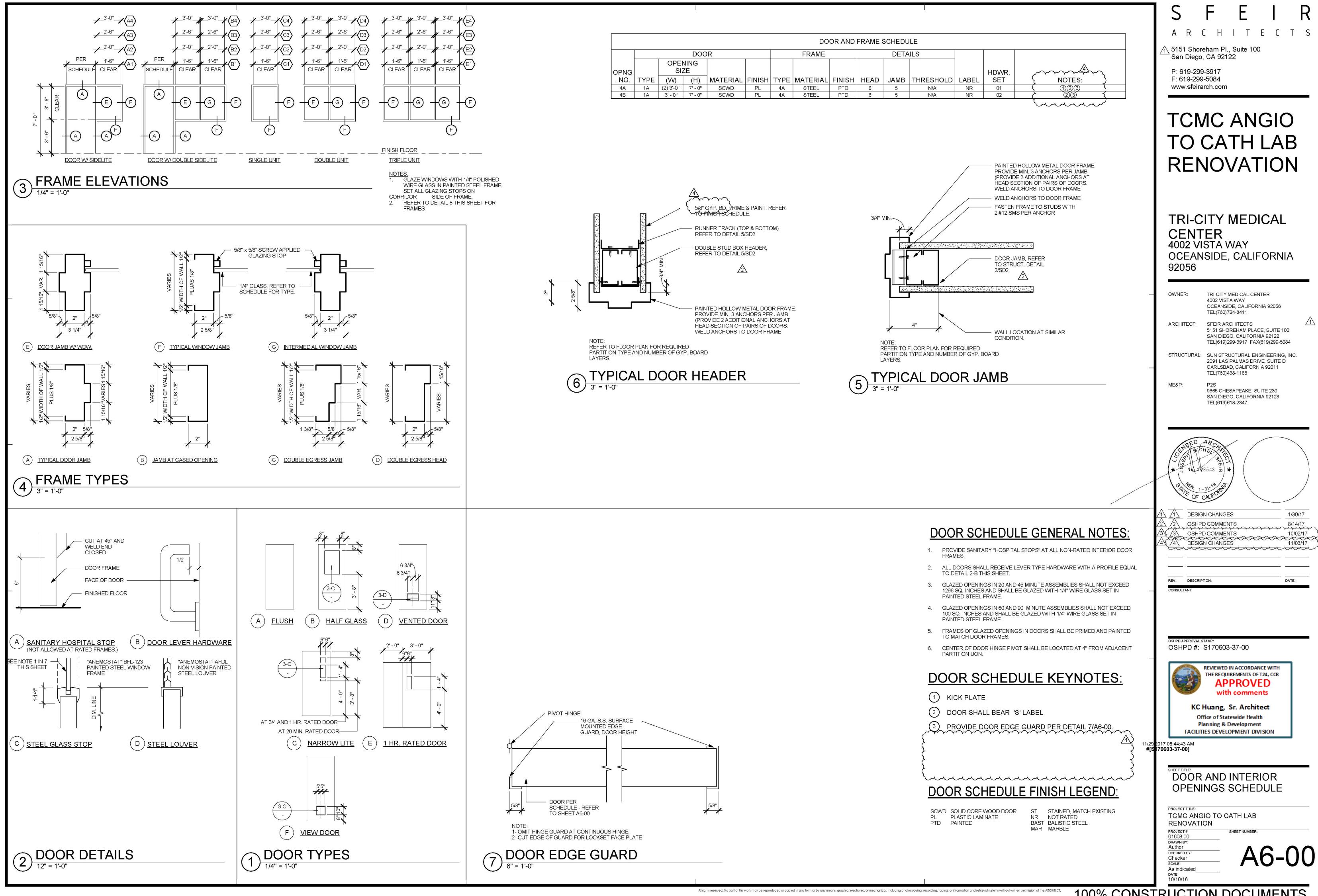
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<b>EQU</b>	IPMENT SCHEDUL	.E												C	PS		
QUIPMENT #	# DESCRIPTION	WEIGHT (APPROX.) LBS	HEIGHT=h	WIDTH=b	LENTH=I	PLAN/ELEVATION	REMARKS	EXIS.	NEW	OFOI	OFCI	CFCI QUANTITY	VOLTAGE E	EMERGENCY ELECTRICA POWER LOAD	L HEAT LOAD	SIESMIC CALCS	PLUMBIN
001	IMAGING CAMERA	0	0"	0			EXISTING TO REMAIN	Χ				1			0		
002	PYXIS	1,000 LBS.	6' - 8"	4'-4"	2' - 3"			Х			Х	1					
003	SIEMENS CABINET	192 LBS.	2' - 4 1/4"	2'-3"	2'-8"			Х			Χ	1					
004	SIEMENS CABINET	0	7' - 2"	7' - 2"	1'-5 1/2"		EXISTING TO REMAIN	Х				1					
005	MOBILE CATHETER CART	0	7' - 2"	3' - 4"	1'-4'			Х		Х		1					
006	SIEMENS CABINET	64 LBS.	1' - 4 1/8"	3'-5-1/2"	8-1/4"			Х			Х	1					
007	SIEMENS PC							Х		Х		1					
800	PACS DATA PC							Х		Х		1					
009	SERVER DATA PC							Х		Х		1					
010	SIEMEN KLUVER	93 LBS.	14-6-3/44	1463/44	4:31/2"			Х			Χ	1					
011	DIFIBRILLATOR	15	3' - 6"	3' - 0"	1' - 6"				Х		Х	1 1					

# (9.4) (10) CONTROL ROOM 4B CATH LAB 4 1 FIRST LEVEL NEW EQUIPMENT PLAN NORTH

## **GENERAL NOTES:**

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- THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
- 2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.
- 3. FIRE-RESISTANT RATED WALLS AND CEILINGS SHALL BE REPAIRED OR PATCHED TO MATCH THE EXISTING RATED CONDITION IN ORDER TO MAINTAIN THE CONTINUITY OF THE RATED WALL OR CEILING SYSTEM.

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# TCMC ANGIO TO CATH LAB RENOVATION

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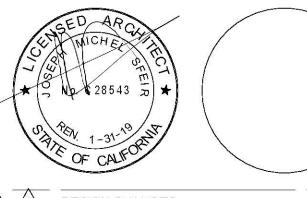
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OSHPD #: S170603-37-00



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Office of Statewide Health
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FACILITIES DEVELOPMENT DIVISION

11/29 2017 08:44:43 AM **#[S | 70603-37-00]** 

EQUIPMENT PLAN DETAILS
AND SCHEDULE

PROJECT TITLE:
TCMC ANGIO TO CATH LAB
RENOVATION

PROJECT #:
01608.00
DRAWN BY:
Author
CHECKED BY:
Checker

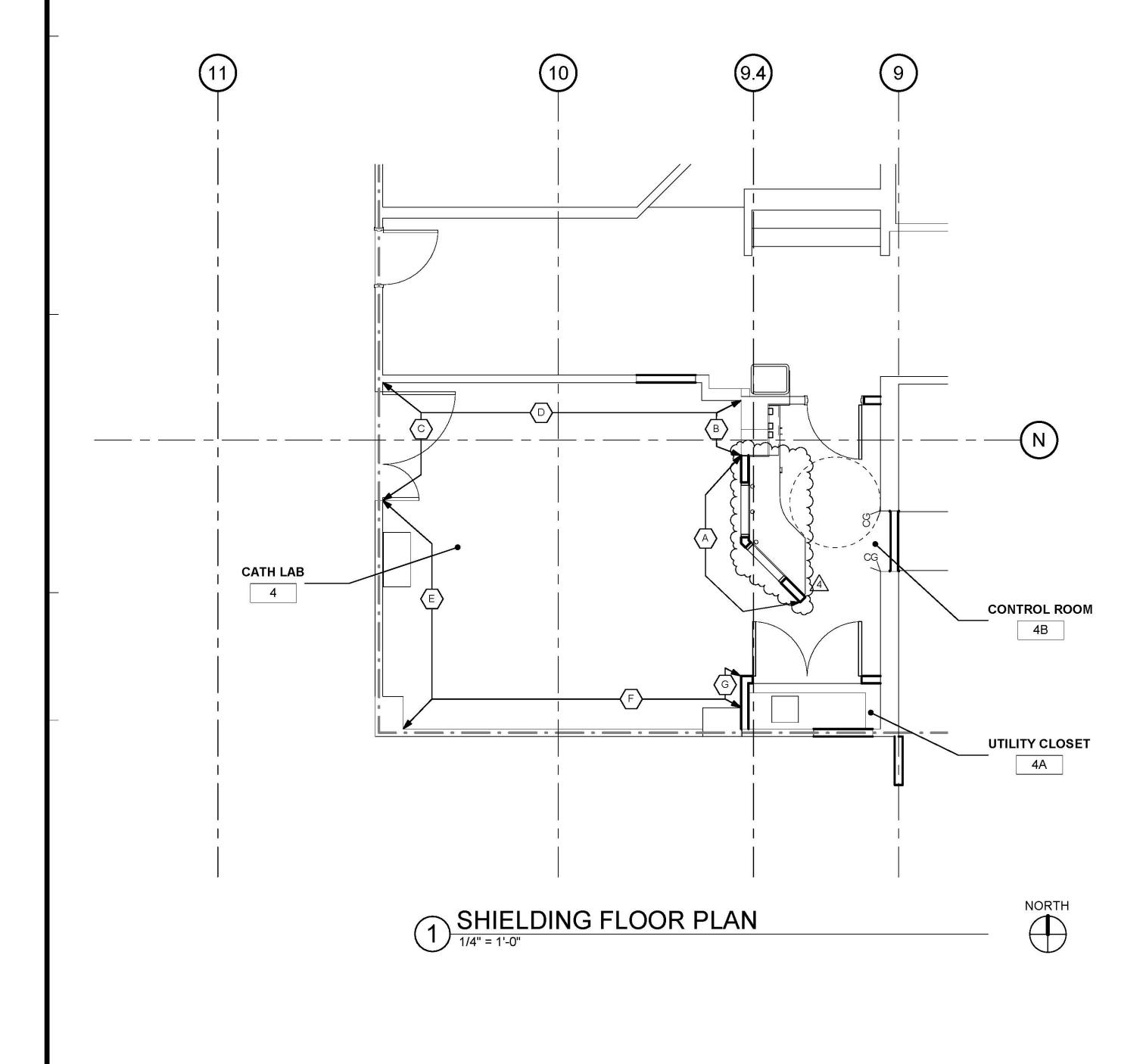
As indicated\_

A6-2

RADIATION SHIELDING SCHEDULE									
LOCATION	CALCULATED THICKNESS	THICKNESS TO BE INSTALLED		REMARKS					
A CONTROL ROOM WINDOW	-	3/64"	3.0	123					
B CONTROL ROOM WALL	-	3/64"	3.0	123					
© ROOM ENTRANCE DOOR	-	1/32"	2.0	123					
D NORTH WALL	-	1/32"	2.0	123					
E WEST WALL	-	1/32"	2.0	123					
F SOUTH WALL	_	1/32"	2.0	123					
G EAST WALL	-	1/32"	2.0	123					
	-								
FLOOR	-	-	NONE						
CEILING	-	-	NONE						

#### **SCHEDULE NOTES:**

- (1) REFER TO PHYSICIST'S REPORT LOCATED IN THE PROJECT MANUAL FOR ADDITIONAL INFORMATION ON SHIELDING. INFORM ARCHITECT WITH ANY DISCREPANCY IMMEDIATELY.
- 2 VERIFY NEW AND EXISTING SHIELDING REQUIRMENTS WITH OWNER PRIOR TO CONSTRUCTION.
- (3) THE WEINGHT EQUIVALANT IS AN ESTIMATE BASED UPON THE THICKNESS OF THE LEAD AS INDICATED IN THE PHYSICIST'S REPORT



#### **GENERAL NOTES:**

- THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
- REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.
- FIRE-RESISTANT RATED WALLS AND CEILINGS SHALL BE REPAIRED OR PATCHED TO MATCH THE EXISTING RATED CONDITION IN ORDER TO MAINTAIN THE CONTINUITY OF THE RATED WALL OR CEILING SYSTEM.

#### **RADIATION SHIELDING NOTES:**

- 1. THE GENERAL CONTRACTOR SHALL VERIFY BY SITE INVESTION THE EXISTING LEAD THICKNESS AT THE WALLS, AND THE RADIATION SHIELIDNG EQUIVALENT AT THE DOORS AND WINDOWS.
- PROVIDE RADIATION SHIELDING PROTECTION AT ACCESS PANELS OR LEAD DOORS TO RACEWAYS WITHIN THE WALL AND WALL CAVITIES; AND ALSO AT ELECTRICAL OUTLETS, "J" BOXES, PULL BOXES, PANELS AND SIMILAR ITEMS THAT PENETRATE THE LEAD SHEET SHIELDING. SEE DETAIL ON A6-31
- THE INDICATED REQUIRED THICKNESS OF THE LEAD SHIELDING IS A MINIMUM. THE CONTRACTOR MAY INCREASE THE THICKNESS SO THE WALL SURGACE WIL FLUSH OUT WITH AN ADJACENT WALL SURFACE. LAP LEAD AT ALL JOINTS A MINIMUM OF 2" AS RECOMMENDED IN THE PHYSICIST REPORT.
- 4. RADOATION SHIELDING SHALL EXTEND UP TO A MINIMUM OF 84" A.F.F. REFER
- 5. UPON COMPLETION OF WORK, THE OWNER SHALL HAVE THE RADIATION SHIELDING TESTED, AND THE CONTRACTOR SHALL CORRECT AND REPAIR ALL DEFICIENCIES THAT MAY BE REVEALED BY THE TEST

TO PHYSICIST REPORT. IN THE PROJECT MANUAL.

IN AREAS WHERE EXISTING LEAD-BACKED GWB IS TO REMAIN AND THE REMOVAL OF WALL MTD BRACKETS OR EQUIPMENT AND IT'S SUPPORTS OCCUR, THE GENERAL CONTRACTOR IS TO PROVIE AND INSTALL NEW UNPIERCED SHEETS OF LEAD BACKED GWB INSURING COMPLETE COVERAGE AND PROPER LAP OF A MIN. OF 2". REFER ALSO TO THE PHYSICIST'S REPORTS DATED AUGUST 22, 2008.

#### **PARTITION LEGEND:**



ACCESSIBLE PATH OF TRAVEL.

EGRESS PATH OF TRAVEL.



EGRESS PATH OF TRAVEL WITIN SUITE (TRAVEL DISTANCE)

ONE-HOUR RATED CORRIDOR.

— — — \_ \_ INDICATES AN EXISTING MEMBRANE OF PARTITION PARTITION TO BE REMOVED. REFER TO

DEMOLITION PLAN FOR FURTHER REQUIREMENTS.) REMAIN. TO PLAN FOR UPGRADE REQUIREMENTS. INDICATES AN EXISTING ONE HOUR FIRE RATED PARTITION, TO REMAIN. ALL PENETRATIONS SHALL BE PROTECTED WITH A U.L LISTED FIRE STOP

INDICATES AN EXISTING TWO HOUR FIRE RATED PARTITION TO REMAIN, ALL PENETRATIONS SHALL BE PROTECTED WITH A U.L LISTED FIRE STOP

INDICATES AN EXISTING SMOKE BARRIER

THICK LINE INDICATES NEW SURFACE FINISH

INDICATES A NEW ONE HOUR FIRE RATED PARTITION EXTENDING TO THE UNDERSIDE OF THE STRUCTURE ABOVE. ALL PENETRATIONS SHALL BE PROTECTED WITHA U.L LISTED FIRE STOP SYSTEM. INDICATES A NEW TWO HOUR FIRE RATED SMOKE BARRIER PARTITION EXTENDING TO THE UNDERSIDE OF THE STRUCTURE ABOVE. ALL PENETRATIONS SHALL BE PROTECTED WITH A U.L LISTED FIRE STOP

INDICATES AN EXISTING STRUCTURAL CONCRETE WALL TO REMAIN. LOCATE REINFORCING STEEL AND OBTAIN APPROVAL FROM STRUCTURAL ENGINEER PRIOR TO CORING AND/ OR CUTTING.

WALL TYPE "A" REFER TO DETAIL 1/A5-00.

WALL TYPE "B" REFER TO DETAIL 2/A5-00.

WALL TYPE "C" REFER TO DETAIL 3/A5-00.

#### PARTITION NOTES

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- ALL DIMENSIONS SHOWN ARE TO FINISHED FACE OF GYP. BOARD, TYPICAL U.O.N. REFER TO SHEET A5-00 FOR GENERAL NOTES AND REQUIREMENTS FOR PARTITIONS.
- EXISTING WALL'S WERE CONSTRUCTED WITH MANY PERMITS AND/OR CONTRACTS. FIELD VERIFY CONSTRUCTION AND WIDTH PRIOR TO FABRICATION OF DOOR FRAMES OR COMPONENTS WHICH REQUIRE THE WIDTH OF WALL TO BE SET.

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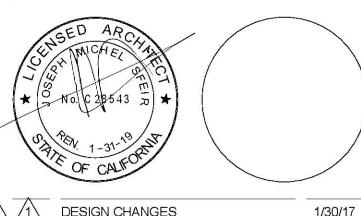
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DESIGN CHANGES OSHPD COMMENTS 8/14/17 OSHPD COMMENTS 10/02/17 DESIGN CHANGES 

REV: DESCRIPTION:

OSHPD #: S170603-37-00



KC Huang, Sr. Architect Office of Statewide Health Planning & Development FACILITIES DEVELOPMENT DIVISION

11/29 2017 08:44:43 AM **#[S 70603-37-00]** 

SHIELDING PLAN DETAILS AND SCHEDULE

TCMC ANGIO TO CATH LAB RENOVATION

01608.00 CHECKED BY Checker

As indicated

