

GENERAL NOTES COLD-FORMED STEEL FRAMING THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, SITE CONDITIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT AND STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCOMPRESENTATION. DESIGN, MANUFACTURE AND INSTALLATION OF LIGHT GAGE, COLD—FORMED STEEL JOISTS, PURLINS AND STUDS SHALL CONFORM WITH THE LATEST EDITION OF THE LIGHT GAGE, COLD—FORMED STEEL DESIGN MANUAL ISSUED BY THE AIS! 2. THE ARCHITECT AND STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY CONFLICTS OR OMISSIONS BETWEEN THE WORKING DRAWINGS OR SPECIFICATIONS BEFORE PROCEEDING ANY WORK SO AFFECTED. A STRUCTURAL LIGHT GAUGE STUDS, TRACK, BRIDGING, AND ACCESSORIES SHALL COMPLY WITH STEEL STUD MANUFACTURERS ASSOCIATION ICBO ER-4943P CLARIFICATION SHALL BE ISSUED FOR SUCH CONFLICTS. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE ARCHITECT AND STRUCTURAL STRUCTURAL LIGHT GAUGE CH STUDS, J RUNNER TRACK, AND ACCESSORIES SHALL COMPLY WITH DIETRICH 3. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR CONSTRUCTION REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES INCLUDE, BUT NOT LIMITED TO, BRACING, SHORING, TO INSURE THE VERTICAL AND LATERAL STABILITY OF THE STRUCTURE. OBSERVATION METERS TO THE STRUCTURE. OBSERVATION ALL WELDING SHALL BE IN CONFORMANCE WITH AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL". QUALIFICATION OF WELDERS SHALL BE IN ACCORDANCE WITH AWS D1.1, CHAPTER 5, PART C, "WELDER QUALIFICATION". SEE LATEST EDITION OF THE AISI SPECIFICATIONS FOR THE "DESIGN OF COLD—FORMED STEEL STRUCTURAL MEMBERS" FOR ALLOWABLE WELD VALUES. MSITS TO THE SITE BY THE ARCHITECT AND STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS AND DOES NOT RELIEVE THI FRAMING SHALL BE ERECTED PLUMB, LEVEL AND SQUARE. BRIDGING AND DIAGONAL TENSION STRAPS SHALL BE USED. 4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS. THE ARCHITECT AND STRUCTURAL ENGINEER WILL NOT ENFORCE SAFETY MEASURES OR REGULATIONS. TEMPORARY BRACING SHALL BE PROVIDED AS REQUIRED UNTIL ERECTION IS COMPLETE AND SAFELY SECURED TO STRUCTURE. 5. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE GENERAL NOTES AND TYPICAL DETAILS. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON THE DRAWINGS IN CASE OF CONFLICT. COLD-FORMED STEEL YIELD STRENGTH (fy) IS 33 KSI. IDENTIFICATION OF SSMA PRODUCTS 6. ALL WORKS SHALL CONFORM TO THE STANDARDS OF THE 2016 CALIFORNIA BUILDING CODE. MEMBER DEPTH: FLANGE WIDTH: 3.62'' = 362x1/100 INCHES 2'' = 200x1/100 INCHES 7. A.S.T.M. SPECIFICATIONS NOTED ON THE DRAWINGS SHALL BE OF THE LATEST REVISION. ALL MEMBER DEPTHS ARE TAKEN IN 1/100 INCHES ALL FLANGE WIDTH ARE TAKEN FOR ALL "T" SECTIONS MEMBER DEPTH IS THE IN 1/100 INCHES 8. NO STRUCTURAL SUBSTITUTIONS OR CHANGES SHALL BE MADE IN THE FIELD. WRITTEN APPROVAL MUST BE OBTAINED FROM THE STRUCTURAL ENGINEER AND OSHPD FOR ANY SUBSTITUTIONS OR CHANGES FROM THE APPROVED CONSTRUCTION DOCUMENTS. INSIDE TO INSIDE DIMENTION 362(\$)(162) - CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF NEW WORK. MATERIAL THICKNESS: 0.054 = 54 MILS (16 GA.) MATERIAL THICKNESS IS THI S = STUD OR JOIST SECTIONSMIN. BASE METAL THICKNESS T = TRACK SECTIONS REPRESENTS 95% OF THE EXPANSION ANCHOR BOLTS DESIGN THICKNESS 1. ALL FIELD INSTALLED CONCRETE EXPANSION ANCHORS SHALL BE HILTI KB-TZ **EXAMPLE** ANCHOR TYPE ICC-ES ESR# 3/8"ø HILTI KB TZ COLD-FORMED STEEL STUDS PROPERTIES 2. ALL ANCHORS SHALL BE TESTED BASED ON THE FOLLOWING CRITERIA: 3625162-43 1.625" 18 GA. 3/8" HILTI KB TZ ANCHOR 25 FT-LBS 3.62 1.25 362T125-54 16 GA. MINIMUM ANCHOR EMBEDMENT SHALL BE 2" FOR 3/8"ø, 16 GA. (INSTALLED IN NORMAL WT. CONCRETE WITH fc' = 3000 PSI) 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 BARS OR EMBEDED PIPES STRUCTURAL STEEL: AND CONDUITS IN THE SLAB BY USING A NON DESTRUCTIVE METHOD PRIOR TO INSTALLATION WHEN INSTALLING THEM INTO PRESTRESSED CONCRETE (PRE OR POST TENSIONED) STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING U.N.O.: LOCATED THE PRESTRESSED TENDONS BY USING A NON DESTRUCTIVE METHOD PRIOR STEEL CHANNELS AND ANGLES ASTM A36 STRUCTURAL TUBES A500, GRADE B DAMAGING THE TENDONS DURING INSTALLATION. STEEL PLATE ASTM A36 MAINTAIN 1" MINIMUM CLEARANCE BETWEEN EXISTING REINFORCEMENT AND THE STEEL BOLT ASTM A307 APPLY PROOF TEST LOADS TO EPOXY ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. OTHERWISE, REMOVE THE NUT AND INSTALL A THREADED COUPLER UP TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY THE LOAD. ALL STEEL MEMBERS TO BE PRIME PAINTED. SEISMIC LOAD TESTING SHOULD OCCUR A MINIMUM 24 HOURS AFTER INSTALLATION OF THE SITE LOCATION:

LONGITUDE: 117.29178' WEST, LATITUDE: 33.18425' NORTH

DESIGN SPECTRAL RESPONSE ACCLERATION:

SEISMIC IMPORTANCE FACTOR, Ip = 1.5

 $S_{DS} = 0.760, S_{D1} = 0.435$

SEISMIC FORCE COEFFICIENTS:

SEISMIC DESIGN CATEGORY "D"

 $a_p = 1.0$, $R_p = 2.5$

SUBJECTED ANCHORS. IF THE MANUFACTURER'S RECOMMENDED INSTALLATION

TORQUE IS LESS THAN THE TEST TORQUE, THE MANUFACTURER'S RECOMMANDED INSTALLATION TORQUE SHOULD BE USED IN LIEU OF THE TEST TORQUE. ANCHOR DIAMETER REFERS TO THE THREAD SIZE.

REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED. PROVIDE THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE.

RECOGNIZED PROCEDURES.

A). HYDRAULIC RAM METHOD:

SPECIFIED TORQUE WITHIN $\frac{1}{2}$ TURN OF THE NUT. EXCEPTIONS: 1. WEDGDE OR SLEEVE TYPE:

TEST EQUIPMENT INCLUDING TORQUE WRENCHES SHALL BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD

TEST METHODS; THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:

ANCHORS TESTED WITH A HYDRAULIC JACK OR SPRING LOADED DEVICES SHALL MAINTAN THE TEST LOAD FOR MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCERNABLE MOVEMENT DURING THE TENSION TEST, e.g., AS EVIDENCED BY LOOSENING OF THE WASHER UNDER NUT.

ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH MUST ATTAIN THE

ONE-QUARTER ($\mbox{\fontfamily 1}$) Turn of the nut for a $\mbox{\fontfamily 8}$ in. Sleeve anchor only. 2. Threaded type:

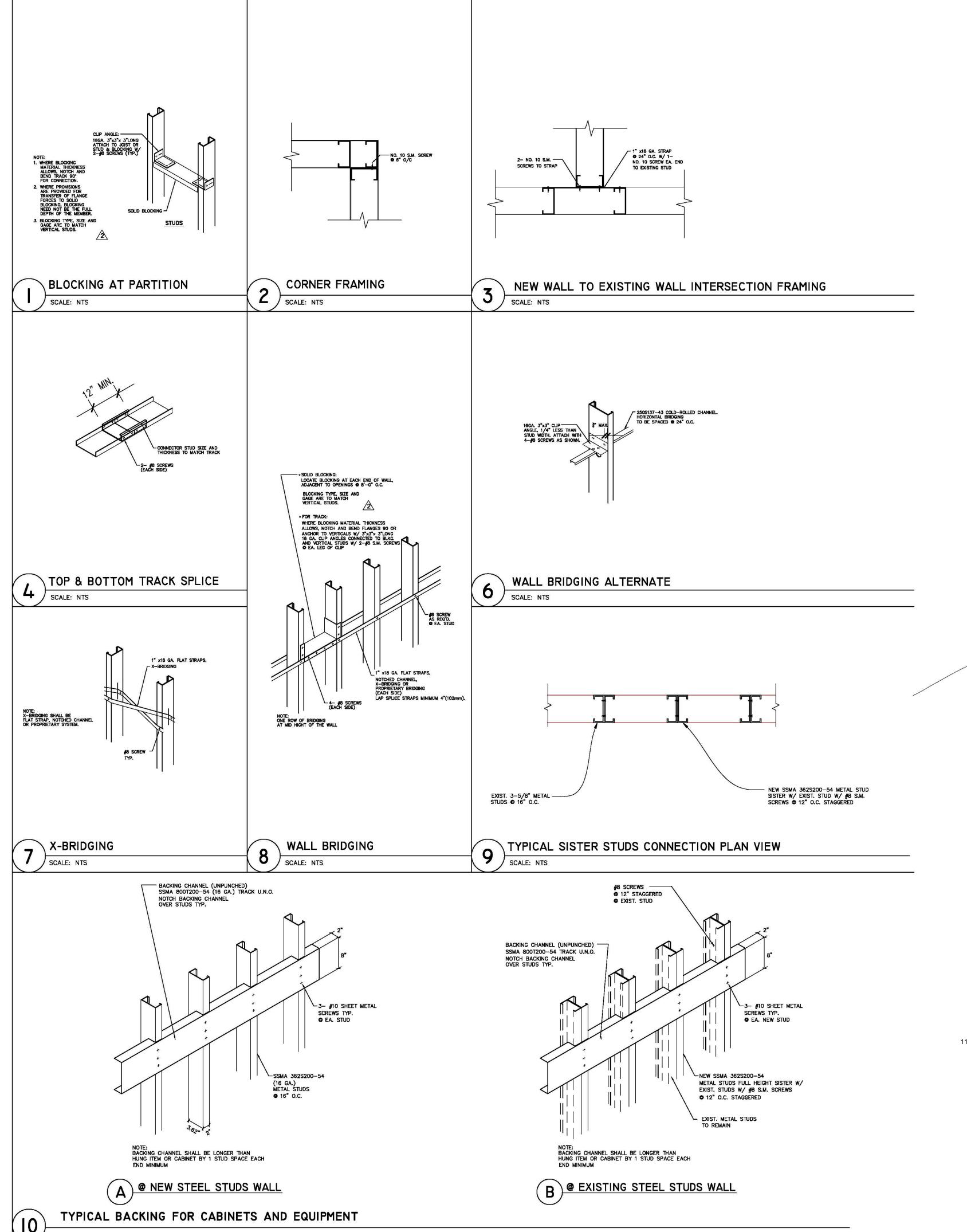
ONE QUARTER (1) TURN OF THE SCREW AFTER INITIAL SEATING OF THE SCREW HEAD.

TESTING SHOULD OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE

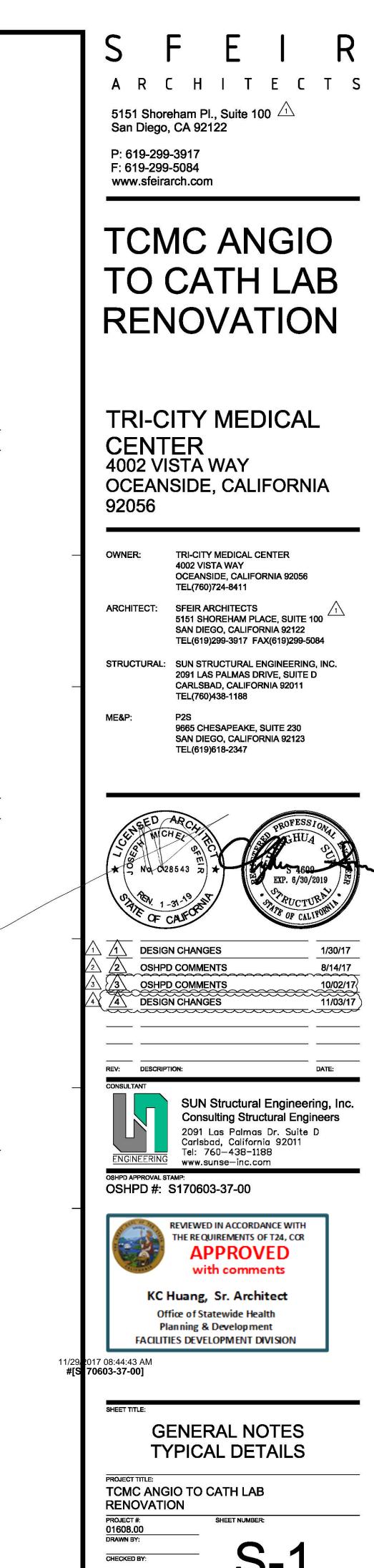
MINIMUM OF 50% OF THE INSTALLED ANCHOR SHALL BE TESTED. (ALTERNATE ANCHORS IN ANY GROUP ARRANGEMENT) IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE, INSTALLED BY THE SAME TRADE,

NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY. TESTS SHALL BE PERFORMED

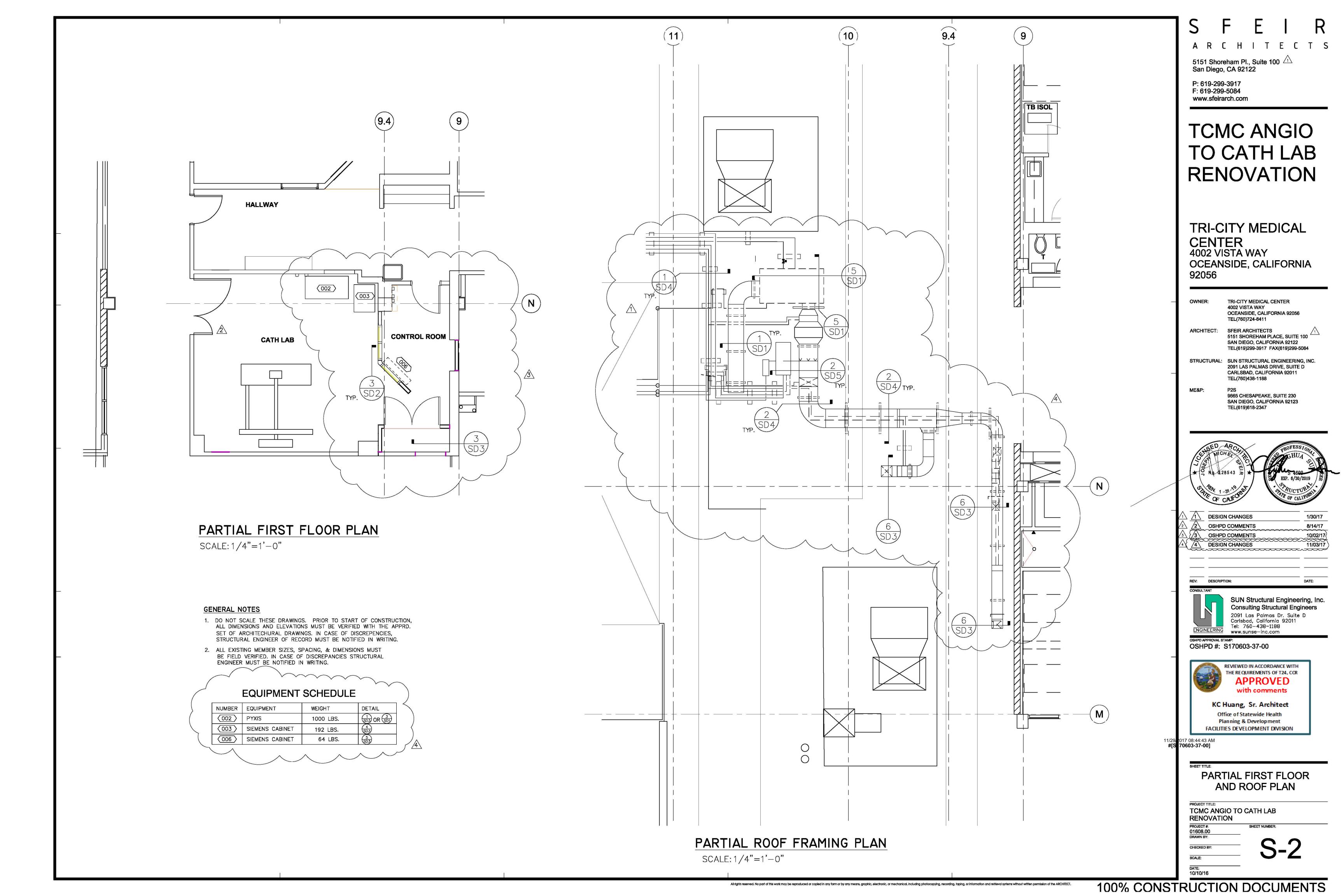
ALL TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE INSPECTOR OF RECORD.

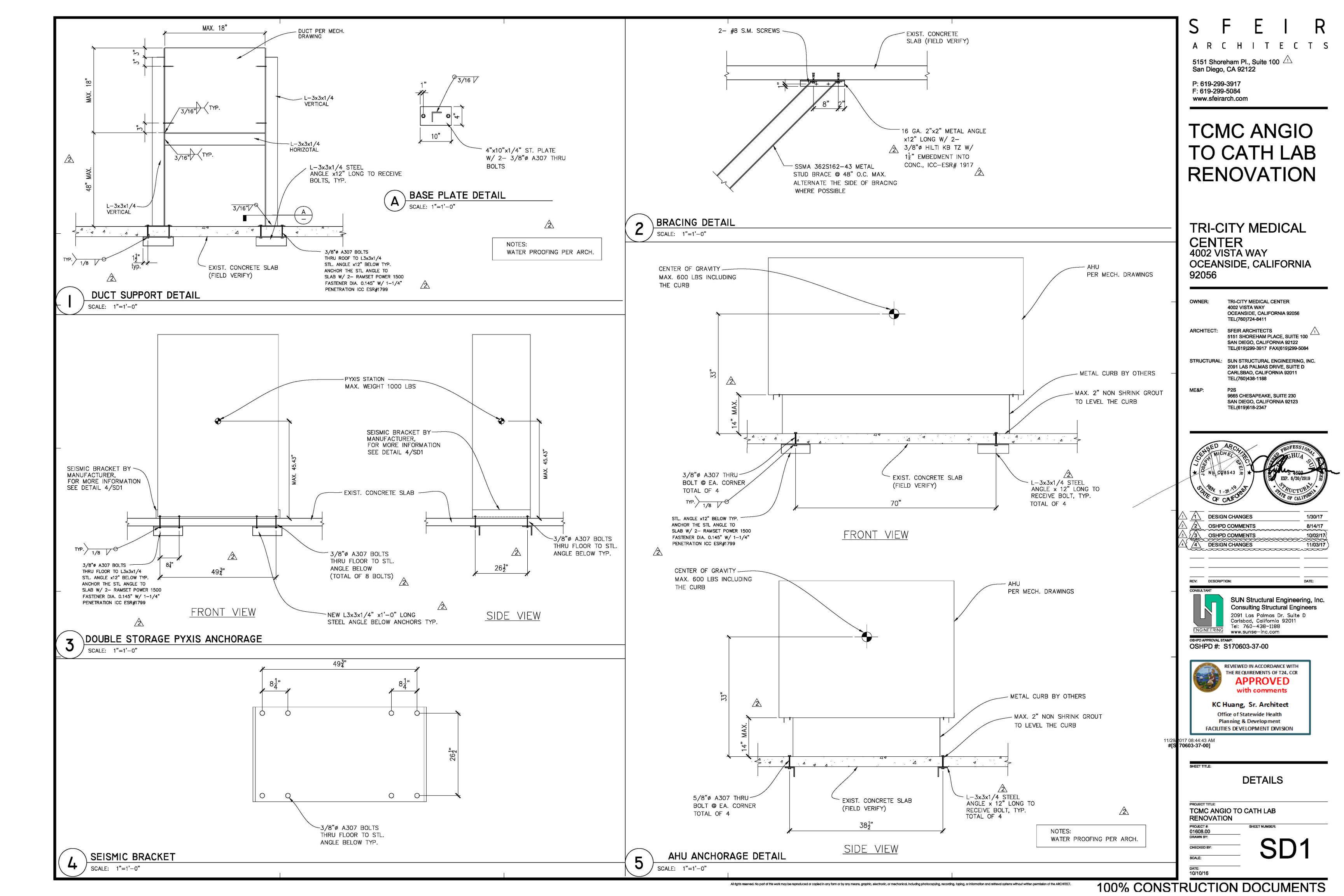


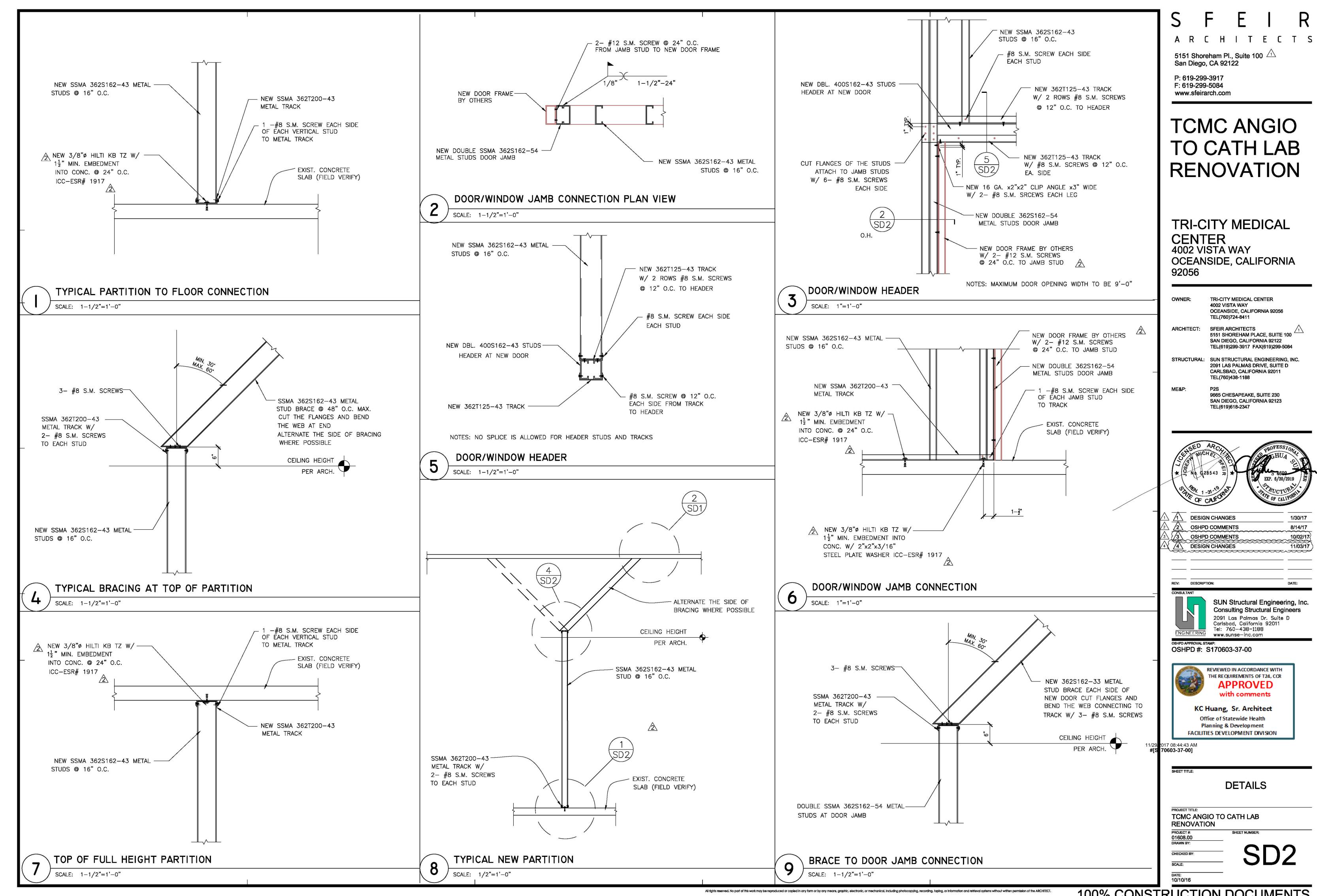
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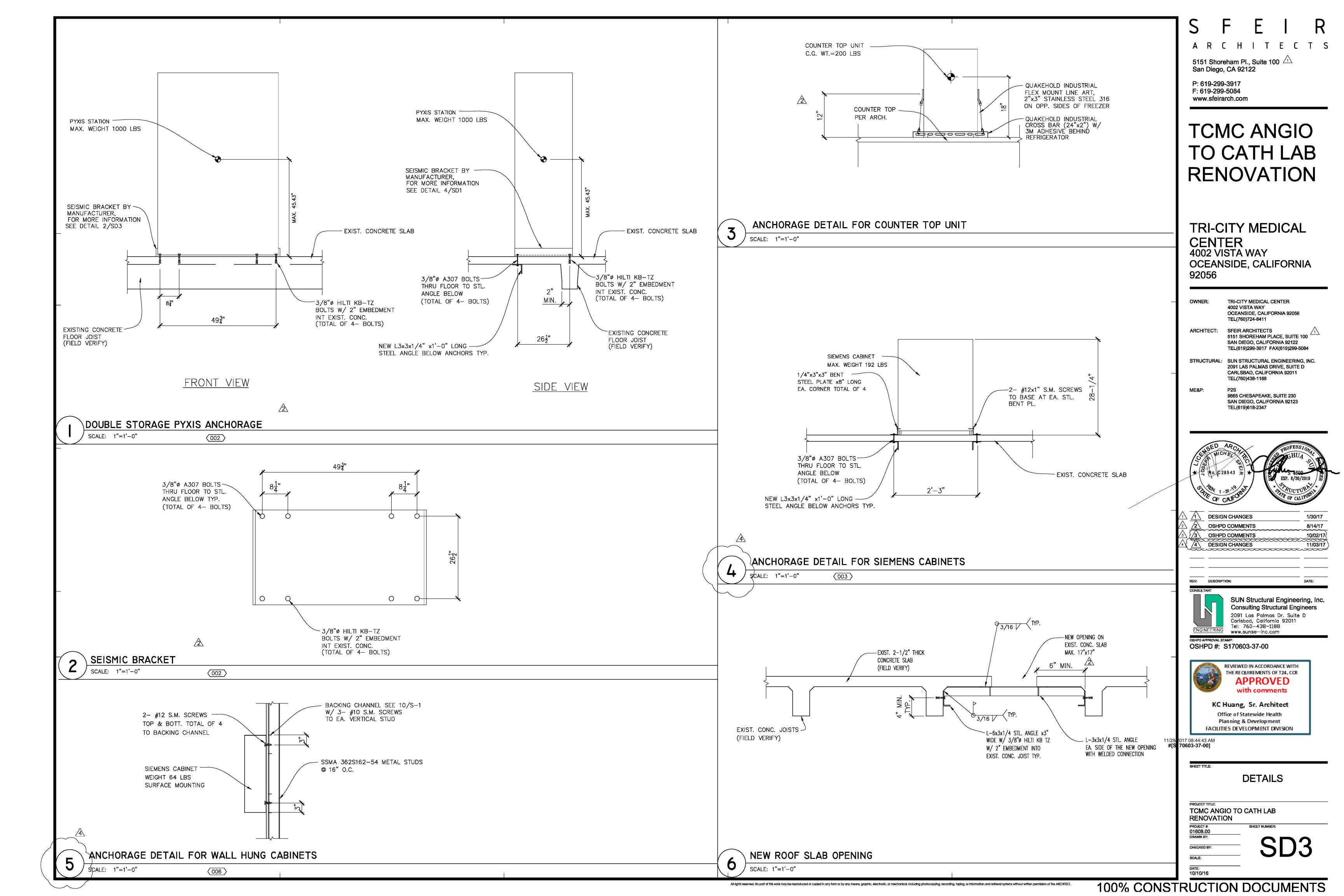


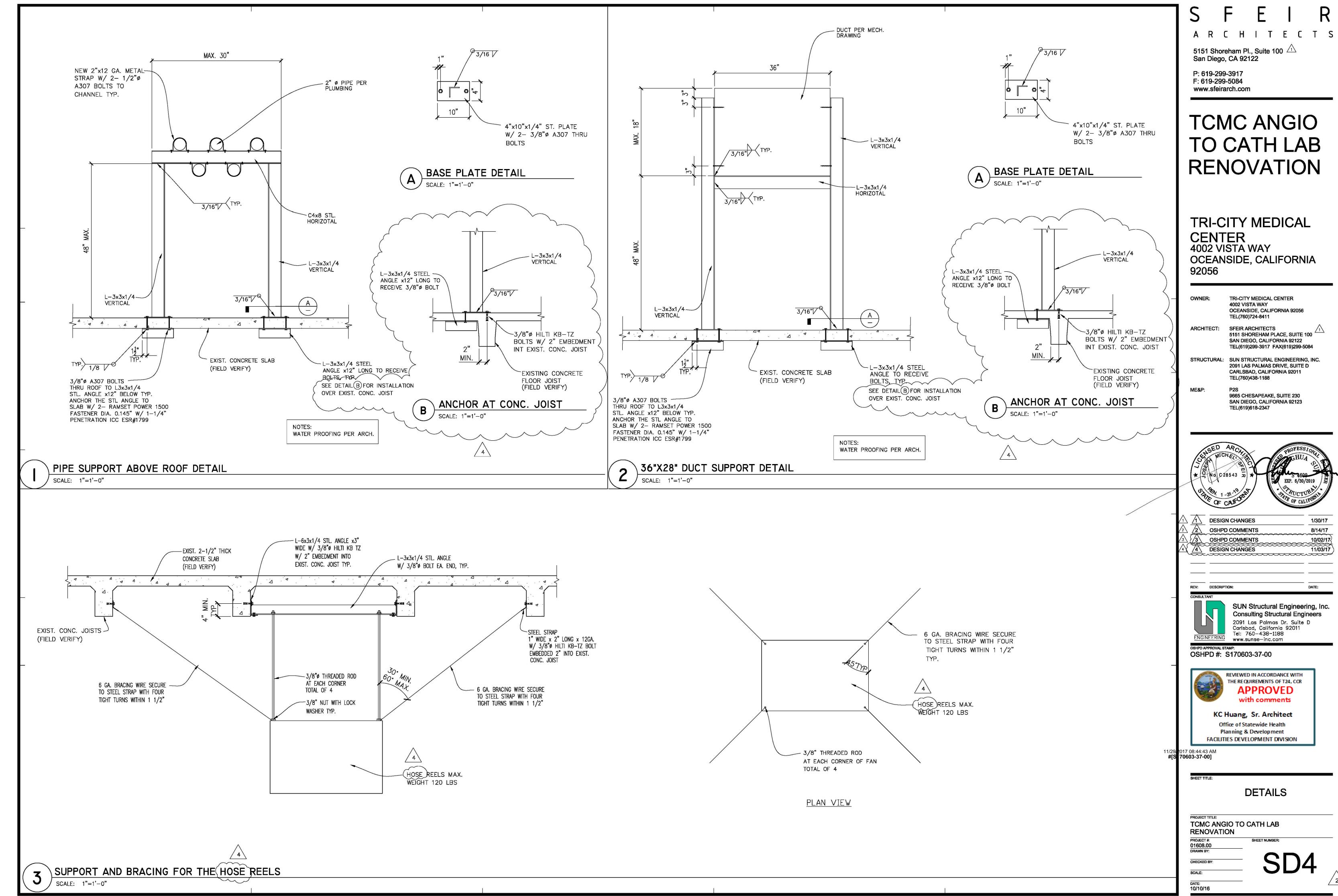
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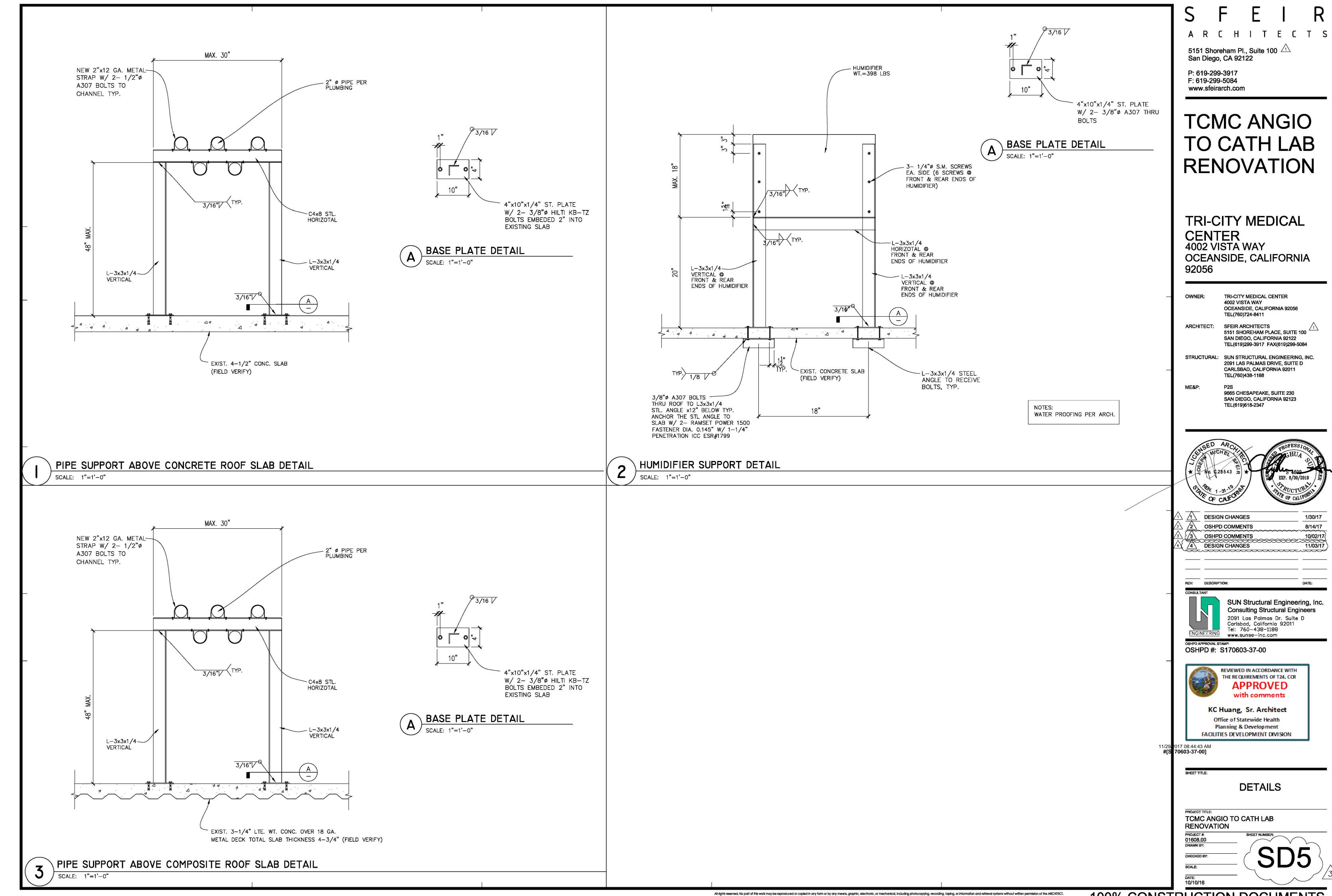






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100% CONSTRUCTION DOCUMENTS



DEW POINT SENSOR

SPACE HUMIDITY SENSOR

ABBREVIATIONS

<u>ABBREVIATION</u>	· ·	<u>ABBREVIATION</u>	Books was paragonal to the second sec
ABV	ABOVE	KW	KILOWATTS
AC	AIR CONDITIONING UNIT	LAT	LEAVING AIR TEMPERATURE
AFF	ABOVE FINISHED FLOOR	LBS	POUNDS
AHU	AIR HANDLING UNIT	LD	LINEAR DIFFUSER
AP	ACCESS PANEL	LWT	LEAVING WATER TEMPERATURE
BDD	BACK DRAFT DAMPER	MAX	MAXIMUM
3HP	BRAKE HORSEPOWER	MBH	THOUSAND BTU PER HOUR
BLDG	BUILDING	MCA	MINIMUM CIRCUIT AMPS
BTU	BRITISH THERMAL UNIT	MIN	MINIMUM
CD	CEILING DIFFUSER	MOCP	MAXIMUM OVERLOAD CIRCUIT PROTECT
CFM	CUBIC FEET PER MINUTE	NIC	NOT IN CONTRACT
CV	CONSTANT VOLUME BOX	OAT	OUTSIDE AIR TEMPERATURE
D	DRAIN	OBD	OPPOSED BLADE DAMPER
DB	DRY BULB	OSA	OUTSIDE AIR
DEG	DEGREES	PD	PRESSURE DROP
DIA	DIAMETER	PERF	PERFORATED
DN .	DOWN	PH	PHASE
DX	DIRECT EXPANSION	POD	POINT OF DISCONNECT
(E)	EXISTING	PR	PRESSURE RELIEF
EA	EACH	PRV	PRESSURE REDUCING VALVE
EAT	ENTERING AIR TEMPERATURE	PSID	POUNDS PER SQUARE INCH DIFFERENT
EF	EXHAUST FAN	PSIG	POUNDS PER SQUARE INCH GAUGE
EFF -	EFFICIENCY	RA	RETURN AIR
EL -o	ELEVATION	RAR	RETURN AIR REGISTER
EQ	EQUAL	RF	RETURN FAN
ER 	EXHAUST REGISTER	RHC	REHEAT COIL
ESP	EXTERNAL STATIC PRESSURE	RLA	RATED LOAD AMPS
EWT	ENTERING WATER TEMPERATURE	RPM	REVOLUTIONS PER MINUTE
°F	DEGREES FAHRENHEIT	SA	SUPPLY AIR
=C	FAN COOL UNIT	SAR	SUPPLY AIR REGISTER
=D	FIRE DAMPER	SD	SMOKE DAMPER
FLA	FULL LOAD AMPS	SF	SUPPLY FAN
FLR	FLOOR	SMBH	SENSIBLE MBH
-ОВ	FLAT ON BOTTOM	STD	STANDARD
FOT	FLAT ON TOP	TAD	TRANSFER AIR DUCT
=P	FIRE PUMP	TEMP	TEMPERATURE
-PI	FINS PER INCH	TG	TRANSFER GRILLE
-PM	FEET PER MINUTE	TMBH	TOTAL MBH
FT	FEET OR FOOT	TSP	TOTAL STATIC PRESSURE
FΧ	FLEXIBLE CONNECTION	TYP	TYPICAL
GA	GAUGE	UC	UNDERCUT
GALV	GALVANIZED	UON	UNLESS OTHERWISE NOTED
GC	GENERAL CONTRACTOR	V	VOLTS
GPH	GALLONS PER HOUR	VAV	VARIABLE AIR VOLUME UNIT
GPM	GALLONS PER MINUTE	VD	VOLUME DAMPER
HB	HOSE BIBB	VFD	VARIABLE FREQUENCY DRIVE
HD	HEAD	W/	WITH
nD HP	HEAT PUMP	W/O	WITHOUT
HP ut	HORSEPOWER	WB	WATER COLLIMN
HT	HEIGHT	WC	WATER CALICE
HZ	HERTZ	WG	WATER GAUGE
IN	INCHES	WT	WEIGHT

PROJECT NOTES

- 1. CONTRACTOR SHALL COORDINATE ARCHITECTURAL REFLECTED CEILINGS PLANS WITH ALL DISCIPLINES TO VERIFY CLEARANCES BETWEEN HVAC DUCTS, HVAC PIPING, LIGHT FIXTURES, ELECTRICAL DATA CONDUITS, PLUMBING LINES, FIRE PROTECTION LINES, STRUCTURAL MEMBERS, ETC. SPECIAL ATTENTION IS REQUIRED ALONG THE LENGTH OF MAIN MECHANICAL SUPPLY AND RETURN AIR DUCTS WHERE THERE IS LIMITED CLEARANCE FOR PASSAGE OR ROUTING OF UTILITIES.
- 2. THE SPACE FOR DUCT WORK & MECHANICAL EQUIPMENT FOR THIS PROJECT IS LIMITED. COORDINATION WITH OTHER TRADES IS CRITICAL. PROCEED WITH PREPARATION OF SHOP DRAWINGS IMMEDIATELY UPON RECEIVING AN AUTHORIZATION TO PROCEED FOR THE PROJECT. COMPLETE SHOP DRAWINGS PRIOR TO MATERIAL FABRICATION AND INSTALLATION. SHOP DRAWINGS SHALL BE REVIEWED BY COMMISSIONING AGENT, MEOR AND OWNER'S REPRESENTITIVE PRIOR TO SUBMITTAL.
- PROVIDE ORIGINALLY PREPARED CONTRACTOR'S SHOP DRAWINGS IN ELECTRONIC FORMAT. IN ADDITION TO THE REQUIREMENTS SPECIFIED ELSEWHERE, THE SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING:
- A. DUCT, PIPE AND PLUMBING ELEVATIONS.
- B. DOUBLE LINE DUCTWORK AND PIPING (6" AND LARGER).
- C. ACTUAL SIZE OF PURCHASED EQUIPMENT. PER APPROVED CONTRACTOR'S SHOP DRAWINGS.
- D. ACCESS PANELS INCLUDING CEILING PANELS.
- E. ACCESS CLEARANCES FOR EQUIPMENT.
- F. ACTUAL LOCATIONS OF CEILING DIFFUSERS, REGISTERS, AND RETURN REGISTERS.
- G. LOCATIONS OF STRUCTURAL MEMBERS SUCH AS BEAMS.
- H. ACTUAL LOCATIONS OF CONTROL PANELS AND POWER CONNECTIONS TO EQUIPMENT.
- I. COLOR CODED DUCT AND PIPING BASED ON MATERIAL USED.
- J. MINIMUM 1/4"=1'0" SCALE DRAWINGS.
- K. LABEL AND TAG SCHEDULE FOR EQUIPMENT.
- L. DUCT TRANSITIONS TO CLEAR BEAMS OR TIGHT AREAS.
- M. ROOM TEMPERATURE SENSOR LOCATIONS.
- N. POINT OF CONNECTION TO UTILITIES OUTSIDE THE BUILDING.
- O. SECTIONS OR 3-D DRAWINGS OF CONGESTED AREAS.
- P. GRID LINES.
- Q. UTILITY PROFILES FOR UNDERGROUND PIPING.
- 4. DO NOT COMMENCE WITH ANY INSTALLATION, ORDERING OF ANY EQUIPMENT OR MATERIAL FABRICATION WITHOUT AN APPROVED SHOP DRAWING SUBMITTAL.
- FOR EACH SUBMITTAL, THE CONTRACTOR SHALL PROVIDE A LETTER (ON COMPANY LETTERHEAD) AND SIGNED BY THE PROJECT MANAGER INDICATING THE SUBMITTAL HAS BEEN FULLY IN HOUSE REVIEWED TO ENSURE FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND COORDINATION WITH OTHER TRADES. ANY EXCEPTIONS TO THE CONTRACT DOCUMENTS SHALL BE CLEARLY INDICATED ON THIS LETTER. ANY DISCREPANCIES/EXCEPTIONS NOT IDENTIFIED IN WRITING SHALL BE CORRECTED AT THE SOLE EXPENSE OF THE CONTRACTOR AND AT NO EXPENSE TO THE OWNER AND ENGINEER.

GENERAL NOTES

REFERENCE WILL BE MADE TO ANSI Y1.1, MILITARY STANDARD IN THE EVENT ABBREVIATIONS NOT

MENTIONED HEREIN ARE USED, ABBREVIATIONS, AND OTHER STANDARD INDUSTRY CONVENTIONS.

- 1. ALL WORK SHALL COMPLY WITH THE 2013 EDITIONS OF THE CALIFORNIA BUILDING, MECHANICAL, PLUMBING, AND OTHER APPLICABLE FEDERAL, STATE, OR LOCAL CODES AS ADOPTED AND ENFORCED BY THE LOCAL JURISDICTION. IN CASE THE PLANS SHOW MORE STRINGENT REQUIREMENTS, THE PLANS SHALL GOVERN THE DESIGN, YET NOTHING ON THE DESIGN DOCUMENTS SHALL BE INTERPRETED AS AUTHORITY TO VIOLATE CODE(S) OR REGULATION(S).
- 2. SUBMISSION OF BID IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH THE CONTRACTOR WILL BE OBLIGATED TO OPERATE UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.
- 3. WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL"

GENERAL NOTES

- 4. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON DESIGN PLANS / SPECIFICATIONS WITH CODE REQUIREMENTS, THE MORE STRINGENT STANDARD SHALL PREVAIL.
- 5. THIS CONTRACTOR SHALL FURNISH LABOR, MATERIALS, EQUIPMENT, AND TRANSPORTATION AS REQUIRED TO PROPERLY INSTALL ALL NEW HVAC SYSTEMS OR RELATED COMPONENTS AS INDICATED ON PLANS AND SPECIFIED HEREIN.
- 6. ALL NEW EQUIPMENT AND MATERIAL TO BE INSTALLED AS PART OF THIS PROJECT SHALL BEAR AN UNDERWRITERS' LABORATORIES LABEL (UL), AND INSTALLED IN SUCH A MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
- 7. THIS CONTRACTOR SHALL DOCUMENT AND RELAY ANY MAJOR DEVIATIONS FROM THE DESIGN DOCUMENTS. AND ATTAIN APPROVAL FROM THE MECHANICAL ENGINEER BEFORE PROCEEDING. AS-BUILT COPIES SHALL BE PROVIDED INDICATING ALL CHANGES / DEVIATIONS MADE DURING CONSTRUCTION.
- 8. ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA.
- 9. NO PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE OWNER TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. IF ANY AREAS NOT WITHIN THE SCOPE OF WORK ARE AFFECTED BY ANY SHUTDOWN, REMOVAL OR DISCONNECTION, SUFFICIENT ADVANCE NOTICE MUST BE GIVEN TO THE OWNER INDICATING WHICH AREAS WILL BE AFFECTED, WHEN THE PROPOSED SHUTDOWN WILL OCCUR, AND FOR HOW LONG A PERIOD OF TIME.
- 10. THE ARRANGEMENT OF EQUIPMENT AND PIPING SHOWN ON THE DRAWINGS IS BASED UPON INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF DESIGN AND IS NOT INTENDED TO SHOW EXACT DIMENSIONS PECULIAR TO A SPECIFIC MANUFACTURER. THE DRAWINGS ARE, IN PART, DIAGRAMMATIC AND SOME FEATURES OF THE ILLUSTRATED EQUIPMENT INSTALLATION MAY REQUIRE REVISION TO MEET ACTUAL EQUIPMENT INSTALLATION REQUIREMENTS. STRUCTURAL SUPPORTS, FOUNDATIONS, CONNECTED PIPING, VALVES AND ELECTRICAL CONDUIT SPECIFIED MAY HAVE TO BE ALTERED TO ACCOMMODATE THE EQUIPMENT PROVIDED. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH REVISIONS AND ALTERATIONS.
- 11. THIS CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE SITE MAKING FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION OR ERECTION OF HVAC SYSTEMS. MAKE ALLOWANCE FOR BEAMS, PIPES AND OTHER OBSTRUCTIONS IN BUILDING CONSTRUCTION. CHECK DRAWINGS SHOWING WORK OF OTHER TRADES AND CONSULT WITH THE OWNER'S REPRESENTATIVE IN THE EVENT OF POTENTIAL INTERFERENCE. SHOP DRAWINGS SHALL BE MINIMUM 1/4"=1'-0" SCALE, INDICATING FITTINGS, SIZES, WELDS AND CONFIGURATIONS AND SUBMITTED TO ENGINEER FOR REVIEW.
- 12. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF ALL WORK.
- 13. BEFORE COMMENCEMENT OF WORK, THIS CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS, AND CHARACTERISTICS OF ALL UTILITIES.
- 14. CONTRACTOR SHALL SECURE AND PAY ALL FEES AND PERMITS PERTAINING TO THE CONTRACT.
- 15. EXISTING MATERIALS THAT ARE REMOVED SHALL NOT BE REUSED IN NEW SYSTEMS, EXCEPT WHERE INDICATED AS BEING RELOCATED.
- 16. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 17. GALVANIZED SHEET METAL SHALL BE PROVIDED FOR ALL HVAC DUCT SYSTEMS, AND CONSTRUCTED / SUPPORTED / INSTALLED IN ACCORDANCE WITH THE 2016 CALIFORNIA MECHANICAL CODE AND THE LATEST SMACNA STANDARDS.
- 18. ALL PIPING SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS IN A NEAT WORKMANSHIP-LIKE MANNER AND BE SUPPORTED AS REQUIRED BY CODES. PIPING SHALL BE SET UP AND DOWN AND OFFSET AS REQUIRED TO SUIT FIELD CONDITIONS. DIELECTRIC COUPLINGS SHALL BE USED WHERE DISSIMILAR METALS ARE JOINED.
- 19. THIS CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPORTS FOR FIXTURES, DUCTWORK, PIPING, AND MECHANICAL EQUIPMENT, IN ORDER TO COMPLY WITH CALIFORNIA BUILDING CODE, SMACNA INSTALLATION STANDARDS, AND ALL RELATED LOCAL ORDINANCES.
- 20. THIS CONTRACTOR SHALL NOT BORE, NOTCH, CUT, OR PENETRATE INTO A STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM A DESIGNATED STRUCTURAL ENGINEER AND THE OWNER.
- 21. ALL PIPE ELBOWS SHALL BE LONG RADIUS UNLESS OTHERWISE SPECIFICALLY NOTED ON THE DRAWINGS.
- 22. ISOLATE AND DRAIN EXISTING PIPING SYSTEM AS REQUIRED TO ACCOMMODATE INSTALLATION OF THE WORK.
- 23. ALL MATERIAL EXPOSED WITHIN RA PLENUMS SHALL BE NON-COMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND SMOKE DEVELOPED INDEX NOT GREATER THAN 50. COMPLY WITH
- 24. 2016 CBC MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT ANCHORAGE NOTES:
- ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE OSHPD APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCES AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC SECTIONS 1616A.1.17 THROUGH 1616A.1.26 AND ASCE 7-10
 - 1) ALL PERMANENT EQUIPMENT AND COMPONENTS.
 - 2) TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
 - 3) MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
- THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENT SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT.
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A
- FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.
- 25. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES:

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- PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 13.6.1 TO 13.6.8 AND 2016 CBC SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.
- THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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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



OSHPD COMMENTS

OSHPD COMMENTS REV: DESCRIPTION



OSHPD #: S170603-37-00

OSHPD COMMENTS



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

#[S 70603-37-00]

GENERAL NOTES, LEGEND AND SHEET **INDEX**

TCMC ANGIO TO CATH LAB RENOVATION SHEET NUMBER:

01608.00 CHECKED BY: YB AS NOTED

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TCMC ANGIO TO CATH LAB RENOVATION

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OSHPD COMMENTS OSHPD COMMENTS



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OSHPD #: S170603-37-00



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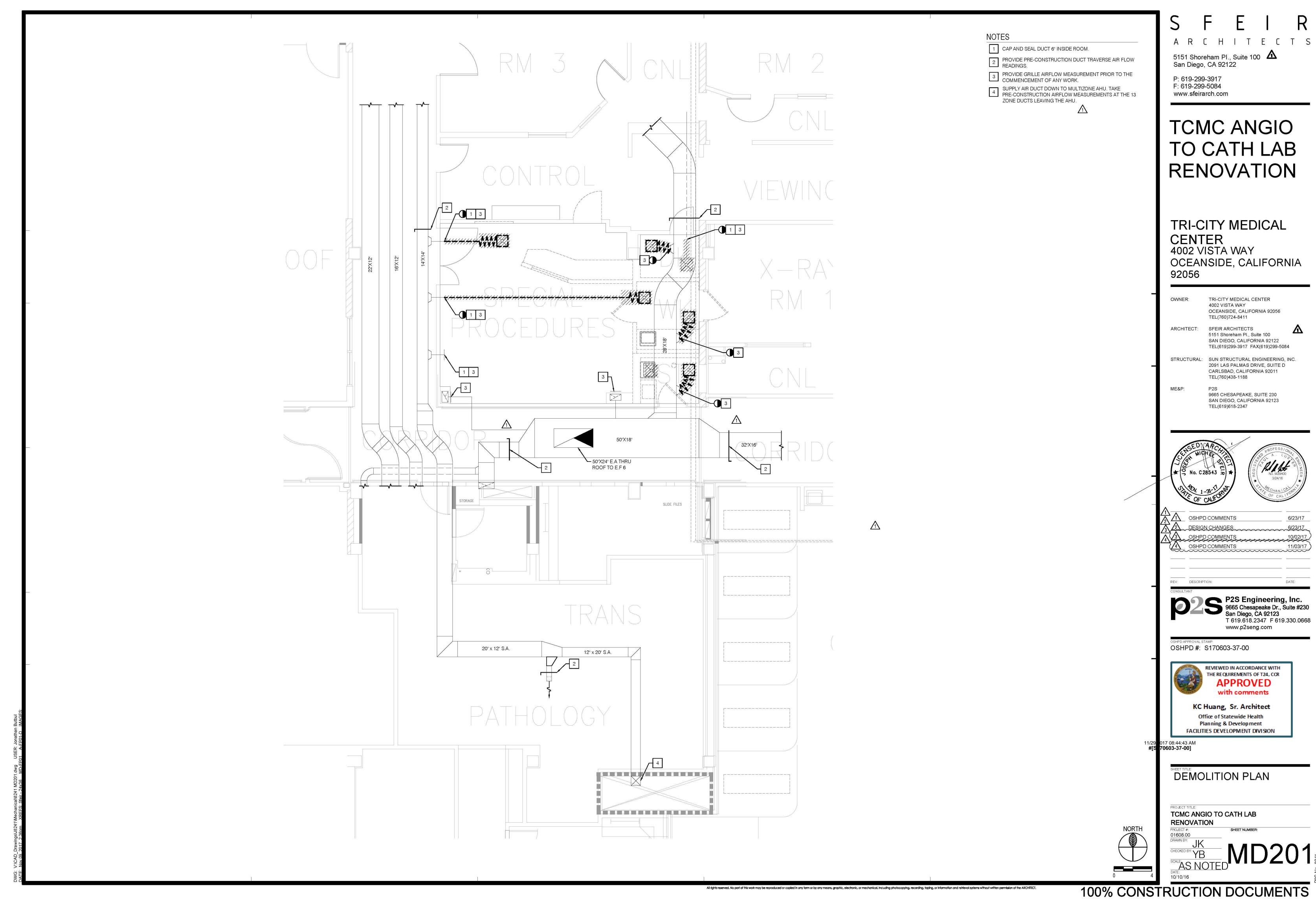
11/29 017 08:44:43 AM **#[S 70603-37-00]**

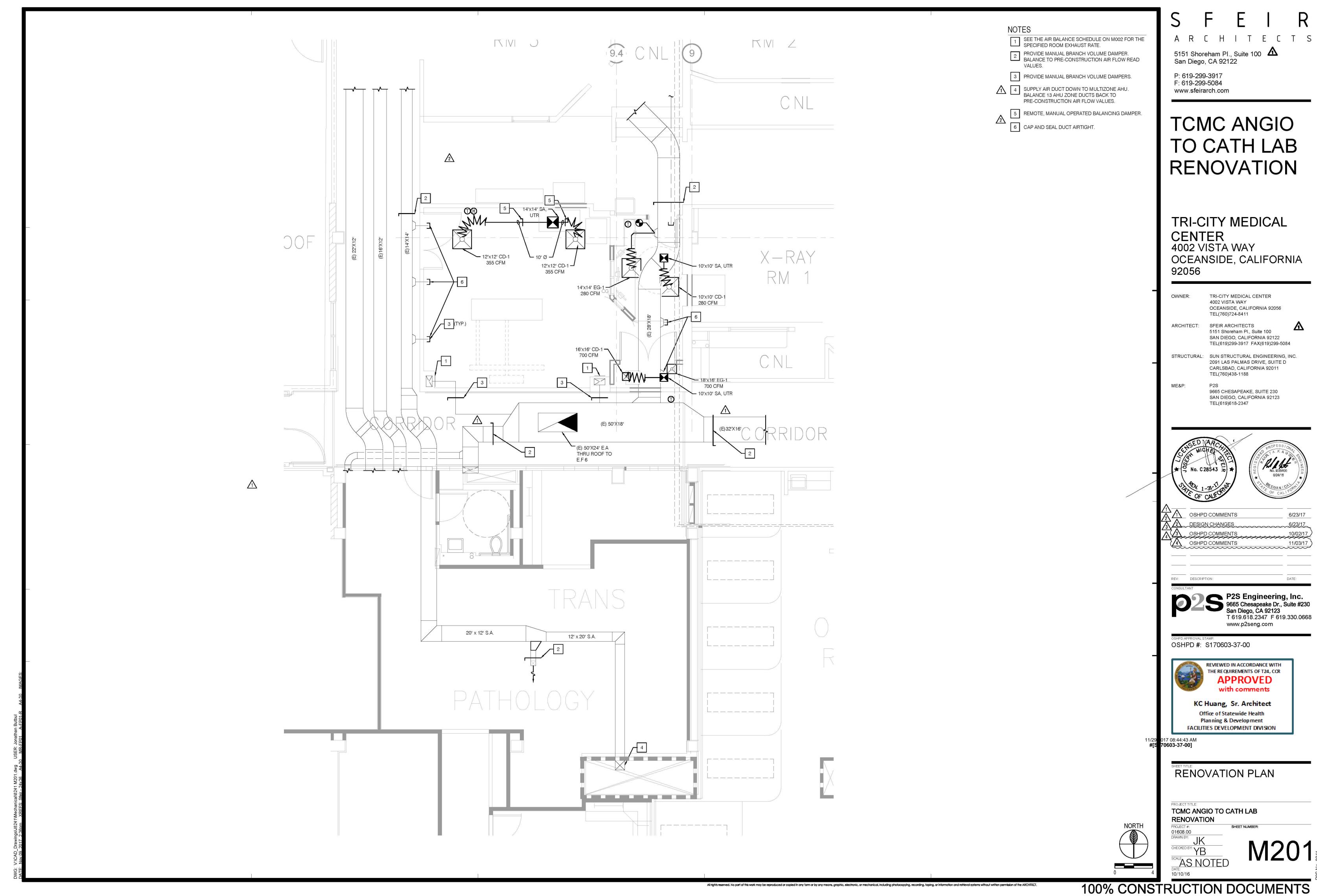
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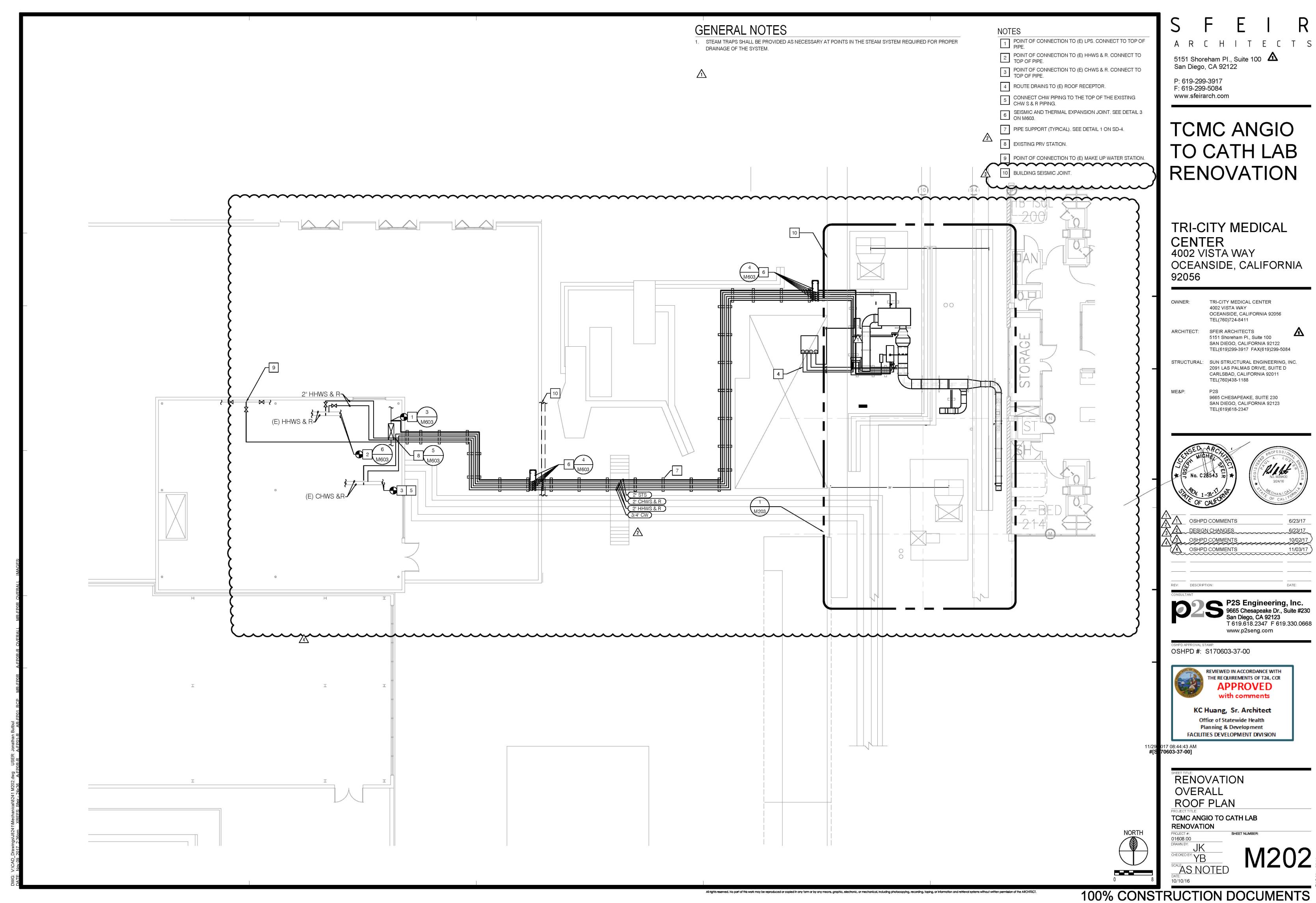
SCHEDULES

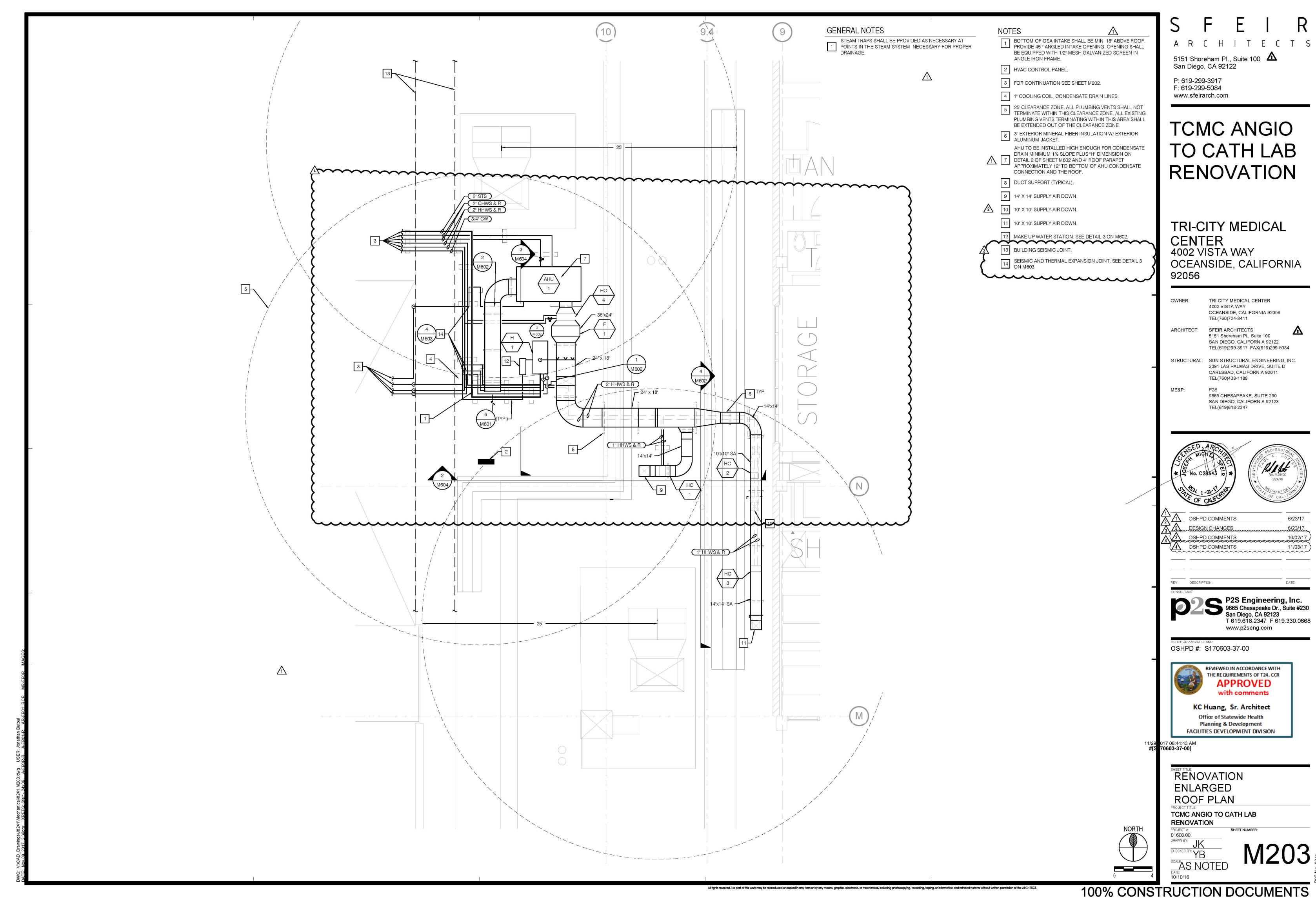
TCMC ANGIO TO CATH LAB RENOVATION

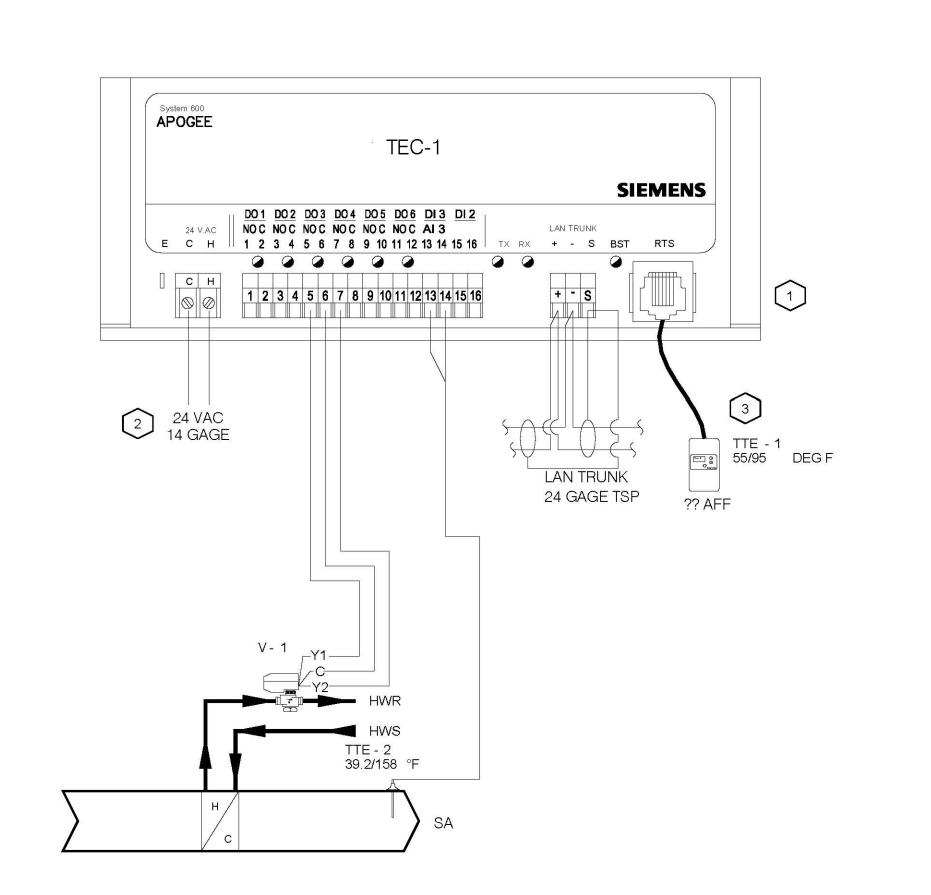
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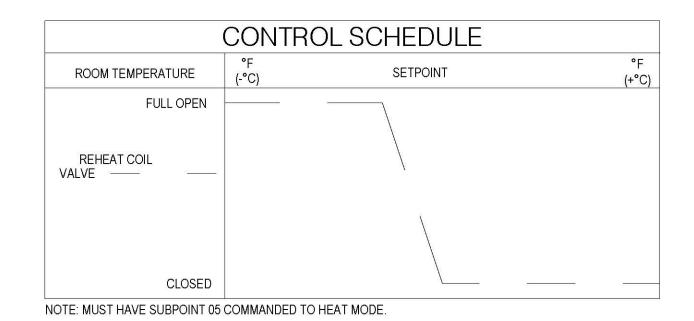






INSTALLATION NOTES

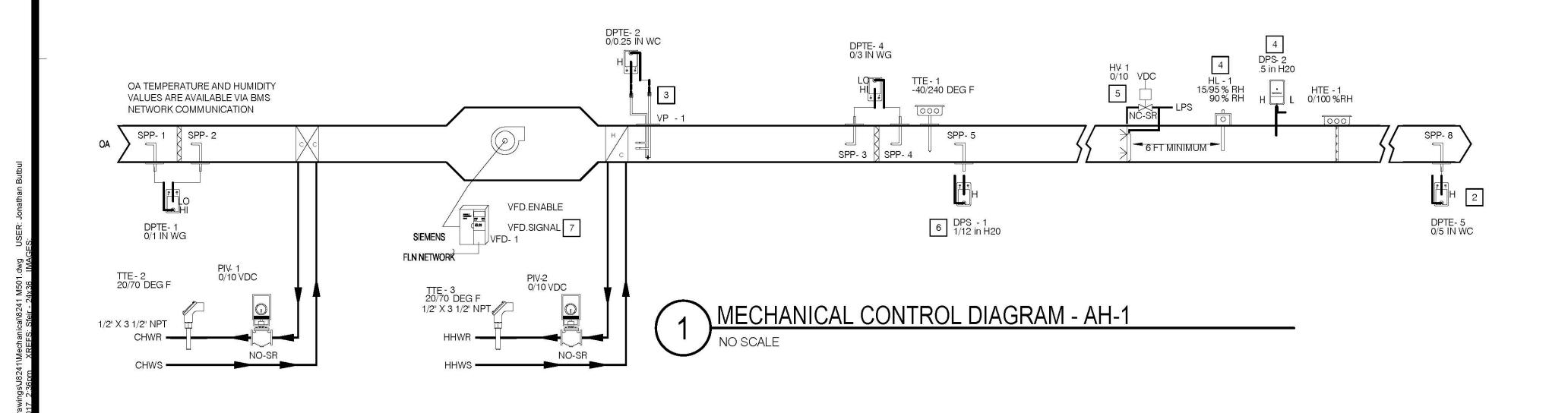
- 1 TEC-1 TO BE MOUNTED IN MANUFACTURER SUPPLIED CONTROLLER ENCLOSURE
- 2 REFER TO BUILDING POWER TRUNK DRAWING FOR 24 VAC POWER
- 3 LOCATE AS SHOWN ON FLOOR PLANS/CONTRACT DOCUMENTS



M-MOUNTED	
W-WIRED	
P-PIPED	L/

DEL HOE	SIEMENS				
DEVICE	FITTER	ELEC.	MANUFACTURER	DIVISION 16	DIVISION 15
TTE-1,2		M,W			
TEC-1			M,W,P		
V-1		W			М
LAN TRUNK		W			
POWER (24VAC)		W			

REHEAT COIL CONTROL DIAGRAM (TYPICAL FOR 5)



NOT	ES
1	NOT USED
2	MOUNT STATIC PROBE AND SENSOR 2/3 WAY DOWN LONGEST OR CRITICAL DUCT. REFERENCE LOW SIDE TO SPACE.
3	AIRFLOW MEASURING STATION IS PROVIDED BY AHU MANUFACTURER.
4	AIRFLOW SWITCH AND DUCT HUMIDSTAT ARE PROVIDED BY HUMIDIFIER MANUFACTURER.
5	FAST ACTING HUMIDIFIER STEAM CONTROL VALVE ACTUATOR. PROVIDED BY THE HUMIDIFIER MANUFACTURER.
6	DPS-1 SHALL BE HARDWIRED TO VFD TO SHUT OFF FAN ON DETECTION OF HI STATIC PRESSURE IN ADDITION TO DDC INPUT.
7	MAP AND HARDWIRE THE FOLLOWING:
	1. START/STOP.
	2. STATUS.
	3. SPEED COMMAND.
	HARDWIRE POINTS SHALL BE IN ADDITION TO DDC INTERFACE.
8	SIEMENS SERIES 2200 RH/TEMP SENSOR MODEL QFA32SS-FWSN.
	CONTROL C CONTRACTOR CHALL CALIBRATE HUMBICTAT

AHU-1 DDC POINT SCHEDULE

DESCRIPTION

SUPPLY FAN VFD
SUPPLY AIR RELATIVE HUMIDITY (RH)

SPACE TEMPERATURE (QTY=3)

SPACE HUMIDITY (QTY=1)

SUPPLY AIR STATIC PRESSURE

SUPPLY AIR CFM

SUPPLY AIR TEMPERATURE
SA DUCT REMOTE STATIC PRESSURE

PRE-FILTER DIFFERENTIAL PRESSURE

FINAL FILTER DIFFERENTIAL PRESSURE

COOLING COIL CONTROL VALVE/POSITION

CHILLED WATER COIL LEAVING WATER

TEMPERATURE

HUMIDIFIER STEAM VALVE

HUMIDITY HIGH LIMIT

SUPPLY HIGH STATIC PRESSURE

STATUS

HEATING COIL CONTROL VALVE/POSITION

HEATING HOT WATER COIL LEAVING WATER TEMPERATURE

T H SPACE TEMPERATURE / HUMIDITY SENSOR 8 9 10 (TYP. OF 3)

POINT

VFD-1

HTE-1

H-1

TTE-1

DPTE-4

TTE-2

HL-1

CS-1

PIV-2

T-1,2,3

H-1,2,3

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AO

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DO DI

9 CONTROLS CONTRACTOR SHALL CALIBRATE HUMIDISTAT.

10 PROVIDE NEW BMS CONTROLLER IN ROOM 2-401A FOR QFA32SS-FWSN COMBINATION RH/TEMP SENSOR POINTS.

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TCMC ANGIO

TO CATH LAB

RENOVATION

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REV: DESCRIPTION:



OSHPD COMMENTS
6/23/17
DESIGN CHANGES
6/23/17
OSHPD COMMENTS
10/02/17
OSHPD COMMENTS
11/03/17

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Office of Statewide Health
Planning & Development
FACILITIES DEVELOPMENT DIVISION

1/29 017 08:44:43 AM **#[S 70603-37-00]**

DIAGRAMS / CONTROLS

PROJECT TITLE:

TCMC ANGIO TO CATH LAB

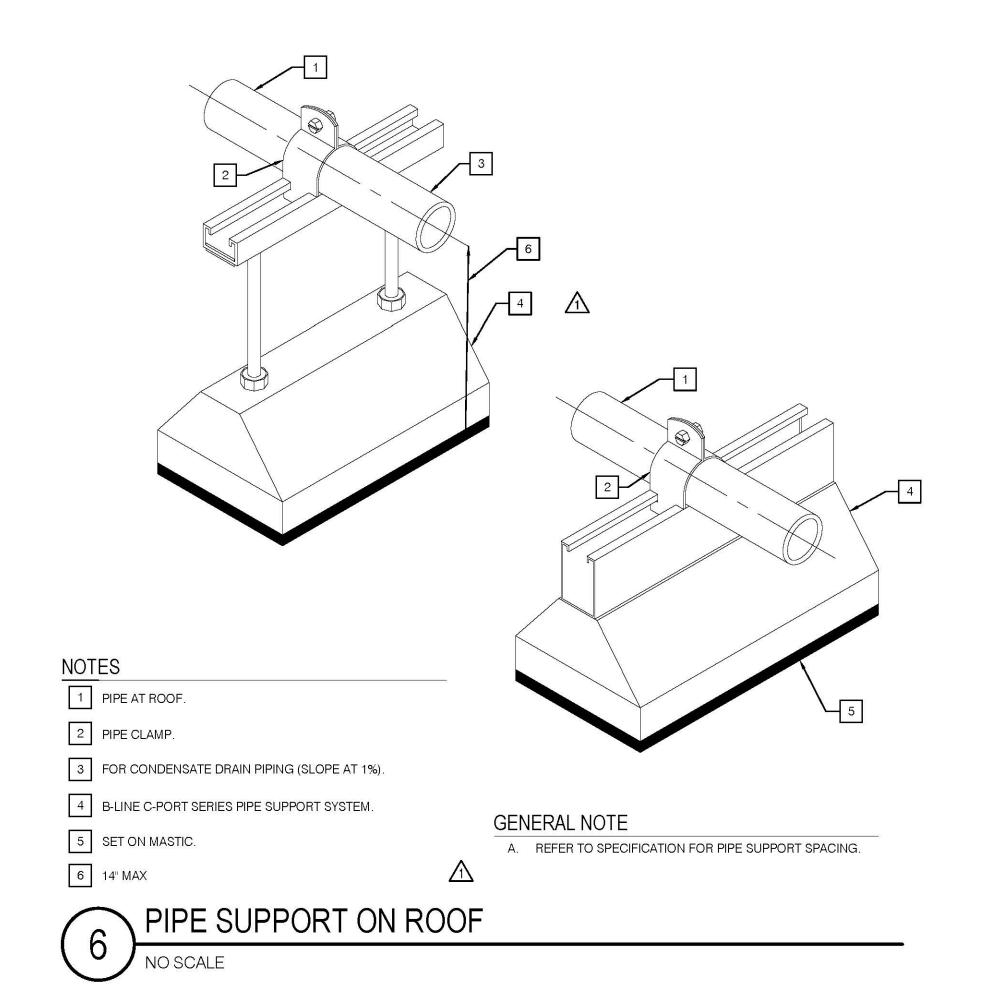
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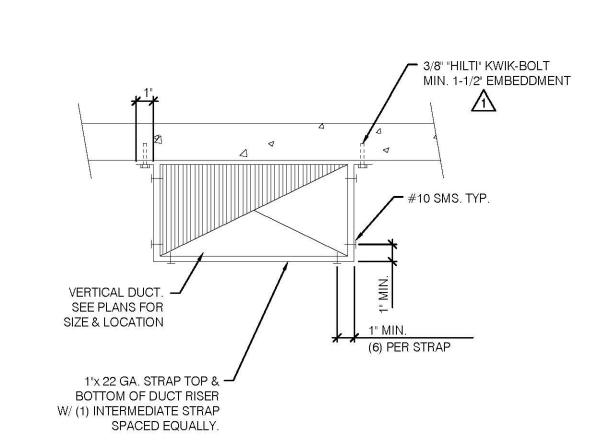
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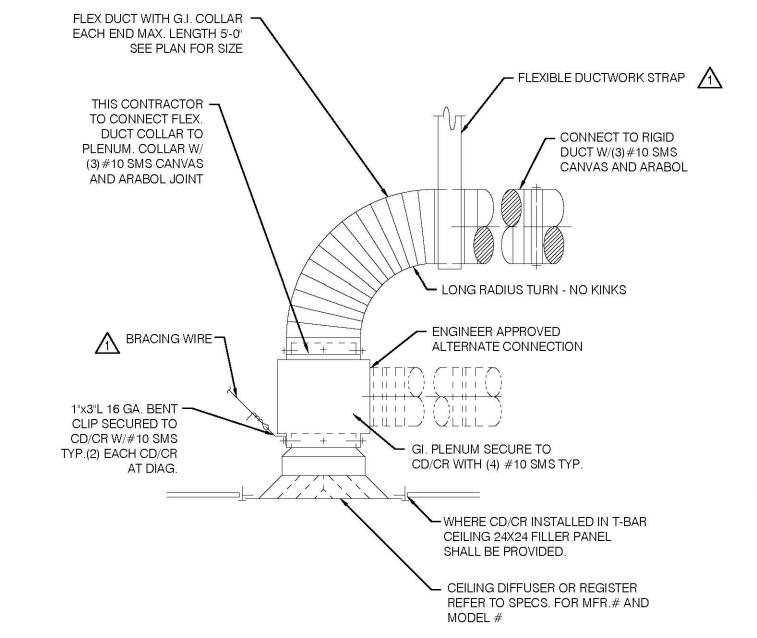
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DRAWN BY: JK
CHECKED BY: YB
SCALE:
AS NOTED
DATE:
10/10/16

IVIOU

100% CONSTRUCTION DOCUMENTS







GENERAL NOTE

ALL SUPPORT AND BRACING PER SPEC. 233113(2.08) AND

MASON IND. OPM 0043-13.

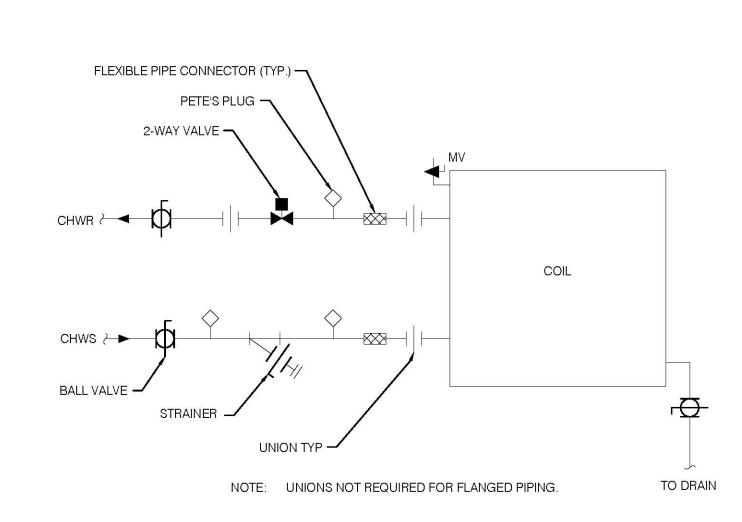
VERTICAL DUCT SUPPORT

AIR DISTRIBUTION RESTRAINT
NO SCALE

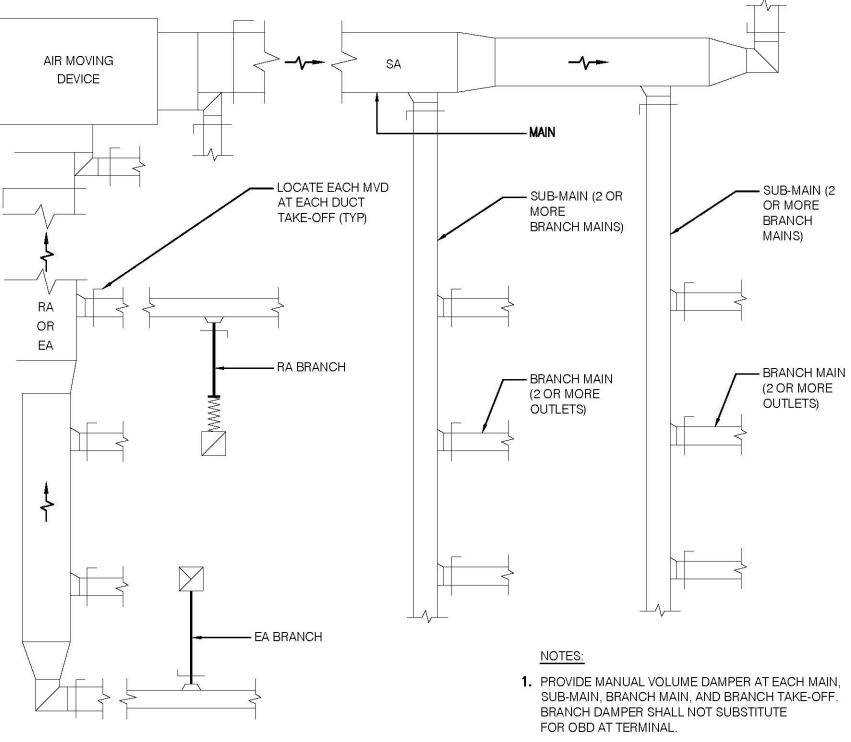
SA

AIR DISTRIBUTION RESTRAINT
NO SCALE

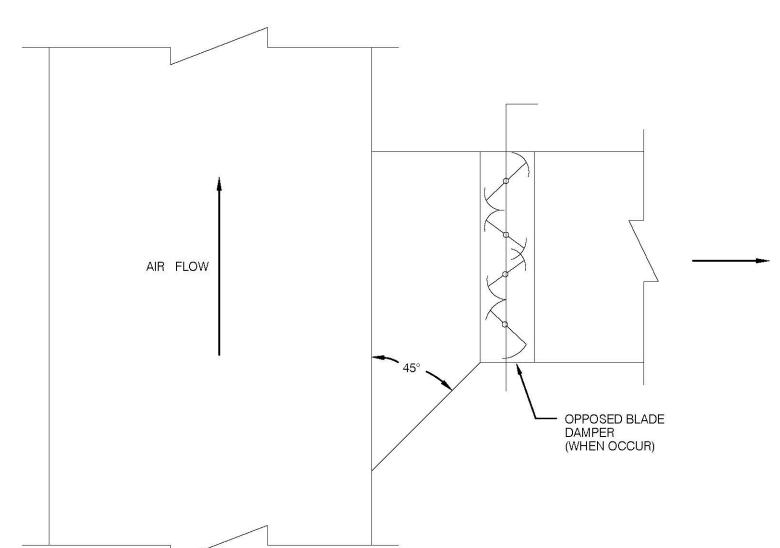
2. PROVIDE CEILING ACCESS TO ALL DAMPERS



2-WAY COOLING COIL PIPING DIAGRAM (FOR HEATING AND COOLING)



TYPICAL MANUAL VOLUME DAMPER LOCATION DIAGRAM
NO SCALE



BRANCH DUCT (RECTANGULAR)

NO SCALE

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TCMC ANGIO TO CATH LAB RENOVATION

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OSHPD COMMENTS

6/23/17

DESIGN CHANGES

6/23/17

3 OSHPD COMMENTS

10/02/17

4 OSHPD COMMENTS

11/03/17

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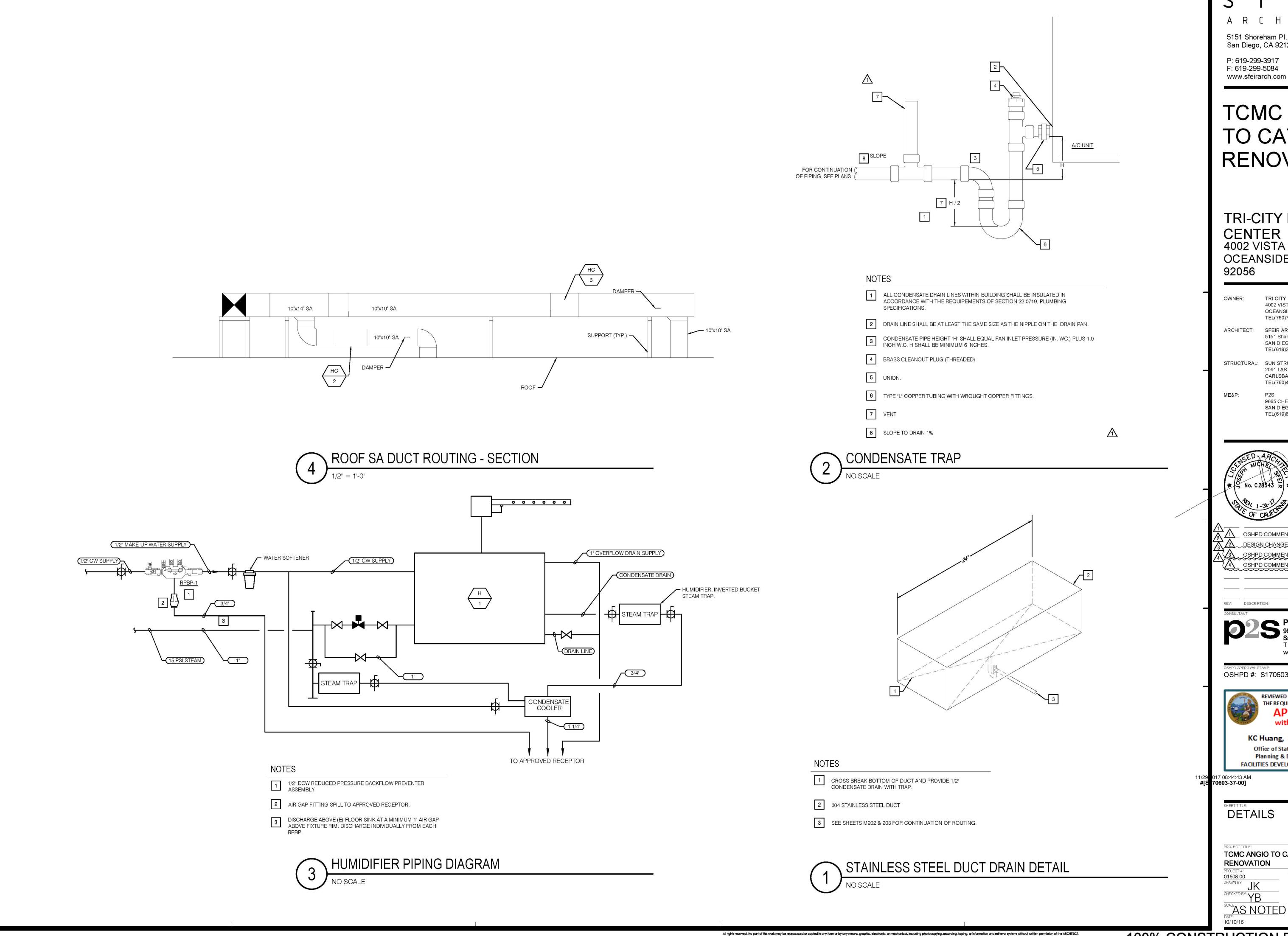
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DETAILS

TCMC ANGIO TO CATH LAB
RENOVATION

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DRAWN BY: JK
CHECKED BY: YB
SCALE: AS NOTED
DATE:
10/10/16

M601



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TCMC ANGIO TO CATH LAB RENOVATION

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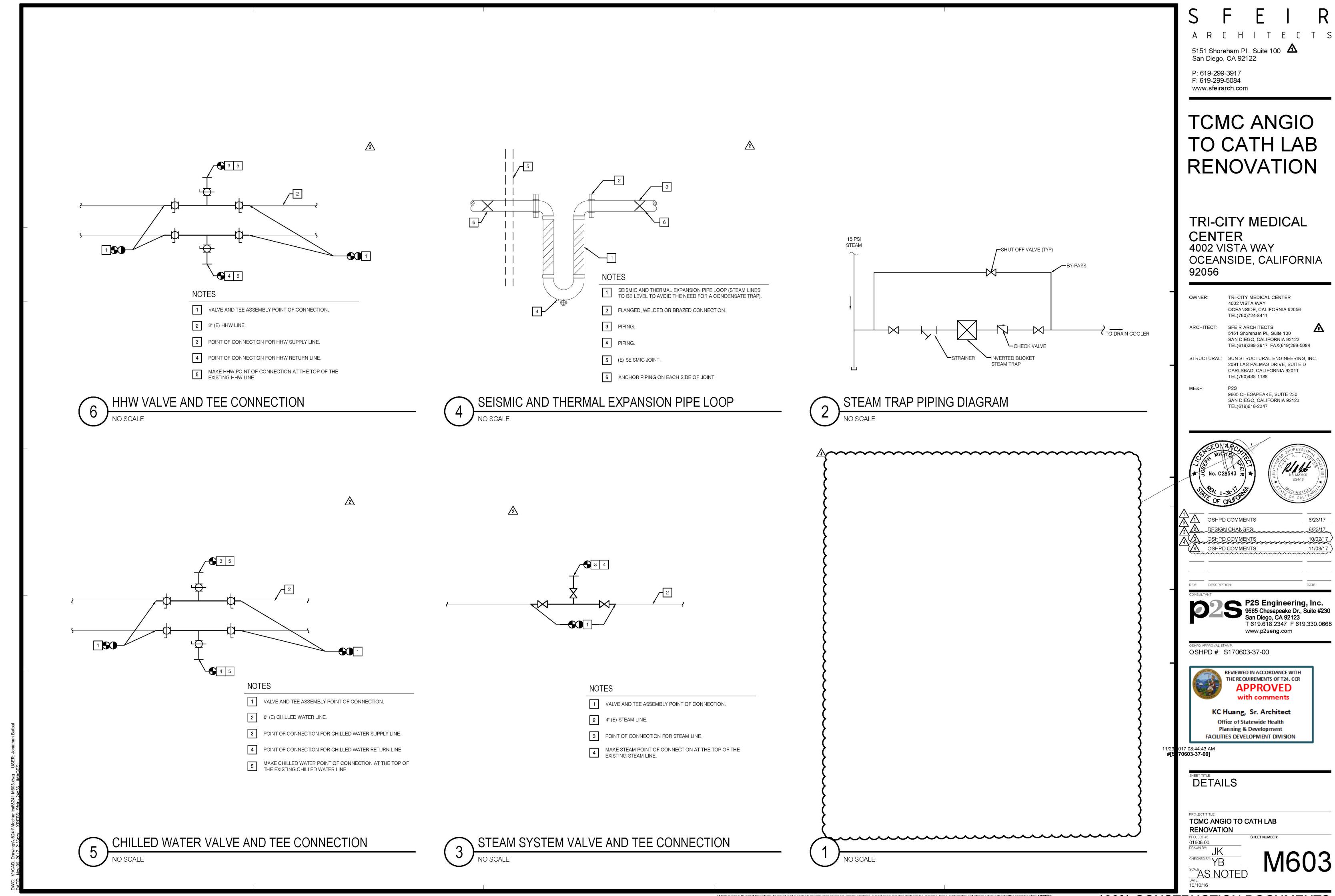


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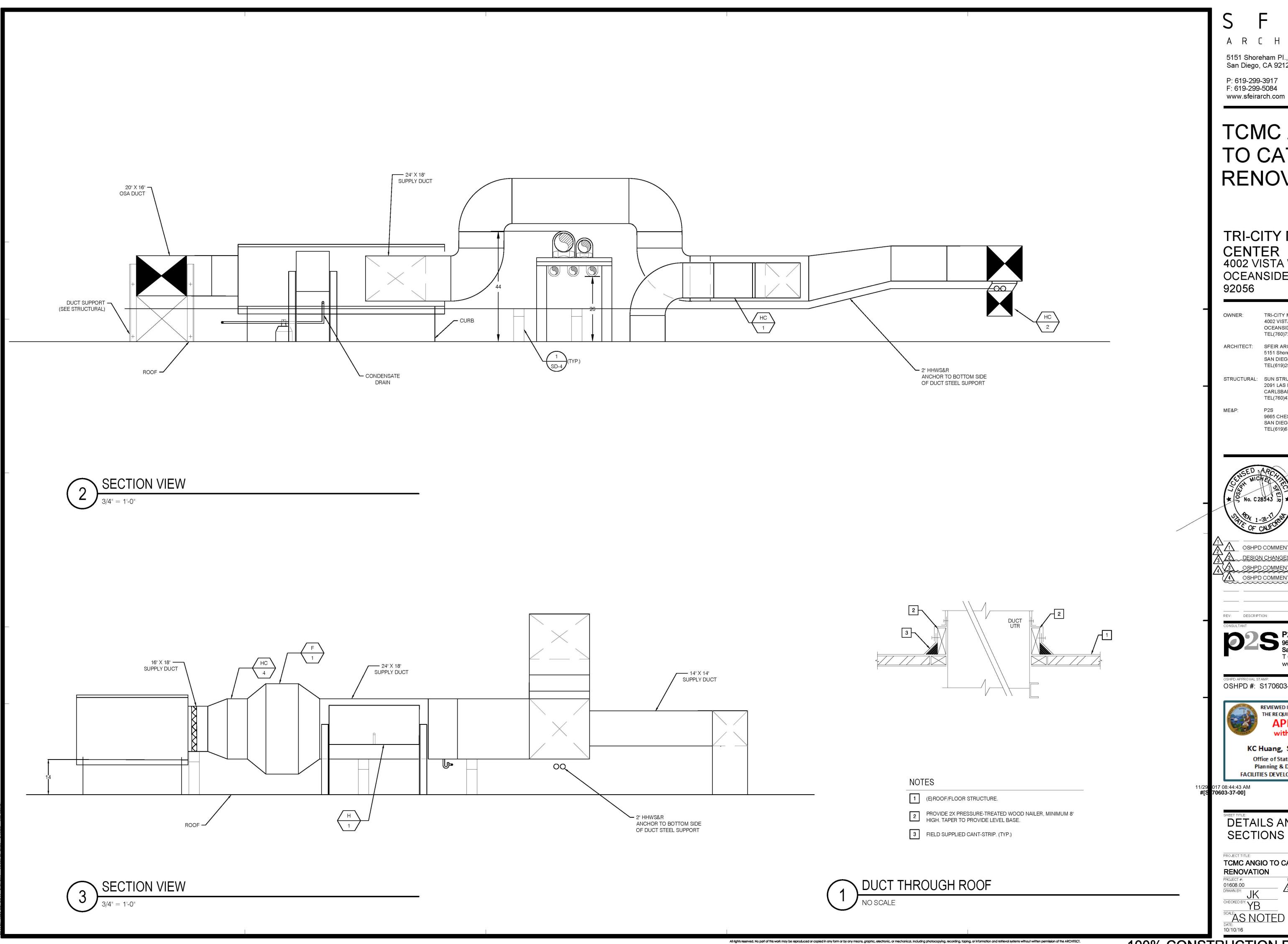
DETAILS

TCMC ANGIO TO CATH LAB **RENOVATION**

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TCMC ANGIO TO CATH LAB RENOVATION

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OSHPD COMMENTS 11/03/17

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DETAILS AND SECTIONS

TCMC ANGIO TO CATH LAB **RENOVATION**

AS NOTED

EXISTING

EXISTING

SHEET INDEX

PLANS

DETAILS

EQUIPMENT

ELECTRIC WATER COOLER

GENERAL NOTES, ABBREVIATIONS, LEGEND AND

SCHEDULES, DEMOLITION AND RENOVATION

EXIST

EWC

P001

P601

EQUIP

OS&Y

POC

POD

OPEN SCREW AND YOKE

POINT OF CONNECTION

POINT OF DISCONNECTION

POUNDS PER SQUARE INCH

GENERAL NOTES

- 1. ALL WORK SHALL COMPLY WITH THE 2016 EDITIONS OF THE CALIFORNIA BUILDING, MECHANICAL, PLUMBING, AND OTHER APPLICABLE FEDERAL, STATE, OR LOCAL CODES AS ADOPTED AND ENFORCED BY THE LOCAL JURISDICTION. IN CASE THE PLANS SHOW MORE STRINGENT REQUIREMENTS, THE PLANS SHALL GOVERN THE DESIGN, YET NOTHING ON THE DESIGN DOCUMENTS SHALL BE INTERPRETED AS AUTHORITY TO VIOLATE CODE(S) OR REGULATION(S).
- 2. SUBMISSION OF BID IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED. THE JOB SITE UNDER WHICH THE CONTRACTOR WILL BE OBLIGATED TO OPERATE UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.
- 3. WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL"
- 4. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON DESIGN PLANS / SPECIFICATIONS WITH CODE REQUIREMENTS, THE MORE STRINGENT STANDARD SHALL PREVAIL.
- 5. CONTRACTOR SHALL FURNISH LABOR, MATERIALS, EQUIPMENT, AND TRANSPORTATION AS REQUIRED TO PROPERLY INSTALL ALL PLUMBING SYSTEMS OR RELATED COMPONENTS AS INDICATED ON PLANS AND SPECIFIED HEREIN.
- 6. ALL NEW EQUIPMENT AND MATERIAL TO BE INSTALLED AS PART OF RENOVATION / NEW CONSTRUCTION SHALL BEAR AN UNDERWRITERS LABORATORIES LABEL (UL), AND INSTALLED IN SUCH A MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
- 7. CONTRACTOR SHALL DOCUMENT AND RELAY ANY MAJOR DEVIATIONS FROM THE DESIGN DOCUMENTS, AND ATTAIN APPROVAL FROM THE MECHANICAL ENGINEER BEFORE PROCEEDING. AS-BUILT COPIES SHALL BE PROVIDED INDICATING ALL CHANGES / DEVIATIONS MADE DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE COMPLETED AS-BUILT DRAWINGS IN THE LATEST VERSION OF AUTOCAD.
- 8. ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING. WHICH ARE TO REMAIN IN OPERATION, ISOLATE WORK. AREAS BY MEANS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA.
- 9. NO PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE COLLEGE TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. IF ANY AREAS NOT WITHIN THE SCOPE OF WORK ARE AFFECTED BY ANY SHUTDOWN. REMOVAL OR DISCONNECTION. SUFFICIENT ADVANCE NOTICE MUST BE GIVEN TO THE COLLEGE INDICATING WHICH AREAS WILL BE AFFECTED, WHEN THE PROPOSED SHUTDOWN WILL OCCUR, AND FOR HOW LONG A PERIOD OF TIME.
- 10. THE ARRANGEMENT OF EQUIPMENT AND PIPING SHOWN ON THE DRAWINGS IS BASED UPON INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF DESIGN AND IS NOT INTENDED TO SHOW EXACT DIMENSIONS PECULIAR TO A SPECIFIC MANUFACTURER. THE DRAWINGS ARE, IN PART, DIAGRAMMATIC AND SOME FEATURES OF THE ILLUSTRATED EQUIPMENT INSTALLATION MAY REQUIRE REVISION TO MEET ACTUAL EQUIPMENT INSTALLATION REQUIREMENTS. STRUCTURAL SUPPORTS FOUNDATIONS, CONNECTED PIPING, VALVES, PIPE SUPPORTS AND ELECTRICAL CONDUIT SPECIFIED MAY HAVE TO BE ALTERED OR ADDITIONAL ITEMS REQUIRED TO ACCOMMODATE THE EQUIPMENT PROVIDED. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH REVISIONS, ALTERATIONS AND / OR ADDITIONS.
- 11. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE SITE MAKING FIELD MEASUREMENTS AND PROVIDE SHOP DRAWINGS NECESSARY FOR FABRICATION OR ERECTION OF ALL HVAC AND PIPING SYSTEMS. MAKE ALLOWANCE FOR BEAMS, PIPES AND OTHER OBSTRUCTIONS IN BUILDING CONSTRUCTION. CHECK DRAWINGS SHOWING WORK OF OTHER TRADES AND CONSULT WITH THE UNIVERSITY REPRESENTATIVE IN THE EVENT OF POTENTIAL INTERFERENCE. SHOP DRAWINGS SHALL BE MINIMUM 1/4"=1'-0" SCALE, INDICATING FITTINGS, SIZES, WELDS AND CONFIGURATIONS AND SUBMITTED TO ENGINEER FOR REVIEW. CONTRACTOR SHALL PROVIDE DIMENSIONED SHOP DRAWINGS COMPLETED IN THE LATEST VERSION OF AUTOCAD.
- 12. CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF ALL WORK.
- 13. BEFORE COMMENCEMENT OF WORK, CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS, AND CHARACTERISTICS OF ALL UTILITIES.
- 14. CONTRACTOR SHALL SECURE AND PAY ALL FEES AND PERMITS PERTAINING TO THE CONTRACT
- 15. EXISTING MATERIALS THAT ARE REMOVED SHALL NOT BE REUSED IN NEW SYSTEMS, EXCEPT WHERE INDICATED AS BEING RELOCATED.
- 16. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 17. ALL PLUMBING FIXTURE VENTS TO TERMINATE MINIMUM 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET HORIZONTALLY OR 3 FEET VERTICALLY ABOVE ANY OUTSIDE OR EQUIPMENT FRESH AIR INTAKES. NO FLAGPOLING PERMITTED.
- 18. ALL PIPING SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS IN A NEAT WORKMANSHIP-LIKE MANNER AND BE SUPPORTED AS REQUIRED BY CODES. PIPING SHALL BE SET UP AND DOWN AND OFFSET AS REQUIRED TO SUIT FIELD CONDITIONS. DIELECTRIC COUPLINGS SHALL BE USED WHERE DISSIMILAR METALS ARE JOINED.
- 19. ALL PIPING DISCHARGING INTO FLOOR-SINKS AND/OR FLOOR DRAINS SHALL MAINTAIN MINIMUM AIR-GAP AS REQUIRED BY LOCAL CODES.
- 20. ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS LINE SIZE UNLESS OTHERWISE INDICATED ON DRAWINGS.
- 21. ISOLATE AND DRAIN EXISTING PIPING SYSTEM AS REQUIRED TO ACCOMMODATE INSTALLATION OF THE WORK
- 22. UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH SCREW-TYPE VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.

23. EQUIPMENT ANCHORAGE NOTES:

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.17 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 6 AND 30.

A. ALL PERMANENT EQUIPMENT AND COMPONENTS.

- B. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- C. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT:

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

24. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

2016 CBC SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6 ITEM 6, AND

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND

- 25. PLUMBING FIXTURES AND FAUCETS SHALL BE CERTIFIED BY THE STATE OF CALIFORNIA ENERGY COMMISSION AS REQUIRED BY THE CALIFORNIA ENERGY EFFICIENCY STANDARDS SECTION S-5314 AND TABLE "G".
- 26. ALL SOIL, WASTE, STORM DRAIN AND VENT PIPING SHALL SLOPE AT 2% UNLESS OTHERWISE INDICATED.

LOCATIONS WITH EQUIPMENT, CABINETS, ETC. AND THE ARCHITECT PRIOR TO ANY INSTALLATION.

- 27. PIPING THROUGH FIRE RATED WALLS SHALL BE PER U.L. FIRE RESISTANCE SYSTEM NO. W1001. SEE ARCHITECTURAL PLANS FOR
- 28. REFER TO THE SPECIFICATIONS BOOK FOR ADDITIONAL REQUIREMENTS.

29. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT

- 30. KEEP ALL PIPING FROM LOAD BEARING FOOTINGS. IF UNABLE TO CLEAR FOOTINGS OR GRADE BEAMS, INSTALL PIPING THROUGH PIPE SLEEVES.
- 31. BEFORE FABRICATION OR INSTALLATION, THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EQUIPMENT AND FIXTURES EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED IN FIELD
- 32. ACCESSIBLE PLUMBING FIXTURES SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF 2016 CBC CHAPTER 11A AND/OR 11B. HEIGHTS AND LOCATION OF ALL FIXTURES SHALL BE ACCORDING TO CBC 2016 SECT/11138A. FIXTURE CONTROLS SHALL COMPLY WITH CBC 2016 SECTION 1138A.4.
- 33. ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTERS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED BEHIND AN ACCESS PANEL.
- 34. VERIFY WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL FLOOR DRAINS, ROOF, OVERFLOW DRAINS AND FLOOR SINKS.
- 35. FIXTURES SHALL BE PROTECTED DURING CONSTRUCTION FROM ANY DAMAGES. REFINISHED FIXTURES WILL NOT BE ACCEPTABLE UNDER ANY CONDITIONS.
- 36. HOSE BIB WITH VACUUM BREAKER SHALL BE PROVIDED UNDER LAVATORY IN EACH PUBLIC RESTROOM
- 37. INSULATE INDIRECT DRAIN LINES FROM REFRIGERATORS, FREEZERS, ICE MAKER AND ICE BINS WITH MANVILLE AERO-TUBE OR EQUAL TO PREVENT CONDENSATE DRIPS.
- 38. INSULATE WASTE PIPE AND P-TRAP FROM FLOOR SINK, FLOOR DRAINS OR FUNNEL DRAINS COLLECTING INDIRECT DRAINS FROM REFRIGERATORS, FREEZERS, ICE MAKER AND ICE BINS TO PREVENT CONDENSATE DRIPS. INSULATE WASTE PIPE UP TO THE NEXT 3" OR 4" MAIN CONNECTION.
- 39. PROVIDE AND INSTALL CHROME ANGLE VALVES ON HOT AND COLD WATER SUPPLY AT EACH PLUMBING FIXTURES.
- 40. ALL WATER FAUCETS SHALL BE PROVIDED WITH CODE APPROVED FLOW RESTRICTORS.
- 41. COVER ALL FLOOR DRAINS, FLOOR SINKS, ROOF AND OVERFLOW DRAINS DURING CONSTRUCTIONS TO PREVENT DEBRIS FROM ENTERING PIPE AND PROTECT GRATES FROM DAMAGES.
- 42. COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT FOR AVAILABLE VOLTAGES AT ALL EQUIPMENT LOCATIONS.
- 43. COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL TAMPER AND FLOW SWITCH LOCATIONS.
- 44. BECAUSE OF THE SMALL SCALE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE CONDITIONS SURROUNDING INSTALLATION OF HIS WORK, FURNISHING THE NECESSARY PIPING, FITTINGS, VALVES, TRAPS, AND OTHER DEVICES WHICH MAY BE REQUIRED TO COMPLETE THE INSTALLATION.
- 45. UNLESS SPECIFIED ON STRUCTURAL DRAWINGS, ANY ALTERATION OR MODIFICATIONS TO STRUCTURAL ELEMENTS BY CUTTING, DRILLING, BORING, BRACING, WELDING ETC. SHALL HAVE WRITTEN APPROVAL STRUCTURAL ENGINEER PRIOR TO START WORK.
- 46. ITEMS NOT SHOWN IN THE DRAWINGS BUT NECESSARY FOR COMPLETE OPERATION OF THE SYSTEM/FIXTURES/EQUIPMENT OR FOR COMPLETE CODE INSTALLATION SHALL BE PROVIDED AT NO ADDED COST TO THE OWNER.
- 47. DIELECTRIC UNION ISOLATOR WITH THREADED CONNECTIONS SHALL BE PROVIDED FOR CONNECTING INCOMPATIBLE MATERIALS
- 48. ALL PLUMBING FIXTURES SHALL BE APPROVED BY OWNER PRIOR TO ORDERING
- 49. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL EXISTING UTILITIES TO WHERE HE IS TO CONNECT PRIOR TO INSTALLATION OF ANY PIPING. EXTEND NEW PIPING IF NECESSARY TO WHERE THE EXISTING IS.
- 50. ALL CONNECTIONS TO EXISTING SERVICES SHALL BE MADE SUCH THAT INTERRUPTION TIME WILL BE AS SHORT AS POSSIBLE. THE CONTRACTOR SHALL GIVE THE OWNER'S REPRESENTATIVE SUFFICIENT NOTICE OF SUCH INTERRUPTION AND THE ACTUAL SHUT DOWN TIME SHALL BE AT A TIME DESIGNATED BY THE OWNER'S REPRESENTATIVE
- 51. ALL EXISTING PIPING DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED WITH MATERIALS TO MATCH EXISTING BY THE CONTRACTOR.
- 52. PROVIDE AND INSTALL WATER HAMMER ARRESTORS IN THE FOLLOWING LOCATIONS (ONLY NON-FERROUS ARRESTORS MAY BE INSTALLED IN ANY WATER SYSTEM):
 - A. WATER LINES TO LAVATORY HEADERS, WATER CLOSET AND URINAL HEADERS, SERVICE SINKS, KITCHEN SINKS, WASH FOUNTAINS, DRINKING FOUNTAINS, LABORATORIES WITH MEDICAL TYPE FAUCETS AND ON WASH SINKS HAVING 3 OR MORE STATIONS AND ALL OTHER QUICK CLOSING FIXTURE SUCH AS CLOTHES WASHERS, AS CLOSE TO FIXTURE AS
 - B. BETWEEN LAST 2 FIXTURES WHEN 3 OR MORE FIXTURES, OTHER THAN THOSE LISTED IN "A" ABOVE, ARE SERVED BY A COMMON HEADER.
- C. WHEN ARRESTOR SHALL BE INSTALLED IN WALL OR FURRING, FURNISH WITH AN ACCESS PLATE LARGE ENOUGH TO PERMIT REMOVAL OF ARRESTOR. ACCESS PLATE SHALL BE A MINIMUM OF 2 INCHES LARGER IN EACH DIRECTION THAN
- ALL PIPING INTO STEM WALLS AND FOOTINGS SHALL BE DOUBLE HALF LAP WRAPPED WITH 1/8" THICK "ARMAFLEX" INSULATION. THE CONTRACTOR SHALL ALSO PROVIDE BLOCKED OUT AREAS IN STEM WALL AND FOOTING. ALL PIPING SHALL AVOID THE LOWER 8" OF THE FOOTING.
- ALL HOT WATER PIPING SHALL BE INSULATED. INSULATION SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DENSITY NOT EXCEEDING 50 PER 2016 CMC SEC. 1201.2. SEE SPECIFICATION FOR OTHER REQUIREMENTS
- ALL CONNECTIONS TO SITE PIPING SHALL BE DONE BY THE PLUMBING CONTRACTOR
- 58. CLEANOUTS SHALL BE PROVIDED PER 2016 CPC SECTION 707.0 & 719.0 AND TO THE FOLLOWING LOCATIONS:
 - A. AT EACH BASE OF ROOF DRAIN DOWNSPOUTS.
- B. AT EACH BASE OF WASTE STACK.
 - C. AT EVERY 100 FT OF STRAIGHT RUN OF HORIZONTAL PIPING
- D. AT EACH AGGREGATE HORIZONTAL CHANGE IN DIRECTION EXCEEDING ONE HUNDRED THIRTY-FIVE (135) DEGREES.
- E. AT EACH HORIZONTAL DRAINAGE PIPE UPPER TERMINAL
- F. ABOVE EACH URINAL

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- G. BELOW EACH SINK.
- 59. PROVIDE SEDIMENT TRAP AS CLOSE AS POSSIBLE TO ALL GAS APPLIANCES AND GAS FIRED EQUIPMENTS INLET EXCEPT FOR APPLIANCES LISTED PER 2016 CPC SECTION 1211.8. SEE SEDIMENT TRAP INSTALLATION PER 2016 CPC FIGURE 1211.8.
- 60. DOMESTIC WATER PIPING AND COMPONENTS SHALL BE PROVIDED AND INSTALLED IN COMPLIANCE WITH CALIFORNIA AB 1953 LEGISLATION, WHICH LIMITS THE ALLOWABLE LEAD CONTENT IN CERTAIN DOMESTIC WATER SYSTEM COMPONENTS.
- 61. ALL PLUMBING FIXTURES AND FITTINGS SHALL MEET CALGREEN MANDATORY REQUIREMENT OF 20% REDUCED FLOW RATE SPECIFIED IN TABLE 5.303.2.3.

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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 OCEANSIDE, CALIFORNIA 92056

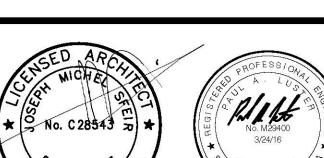
TEL(760)724-8411 ARCHITECT: SFEIR ARCHITECTS 5151 Shoreham Pl., Suite 100 SAN DIEGO, CALIFORNIA 92122

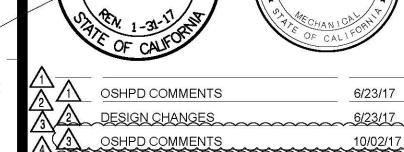
TEL(619)299-3917 FAX(619)299-5084 STRUCTURAL: SUN STRUCTURAL ENGINEERING, INC. 2091 LAS PALMAS DRIVE, SUITE D CARLSBAD, CALIFORNIA 92011

ME&P: 9665 CHESAPEAKE, SUITE 230 SAN DIEGO, CALIFORNIA 92123

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OSHPD COMMENTS

REV: DESCRIPTION P2S Engineering, Inc.

741 USHPD COMMENTS

11/03/17

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OSHPD #: S170603-37-00



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

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> GENERAL NOTES, ABBREVIATIONS, LEGEND AND SHEET INDEX

> > SHEET NUMBER:

TCMC ANGIO TO CATH LAB RENOVATION

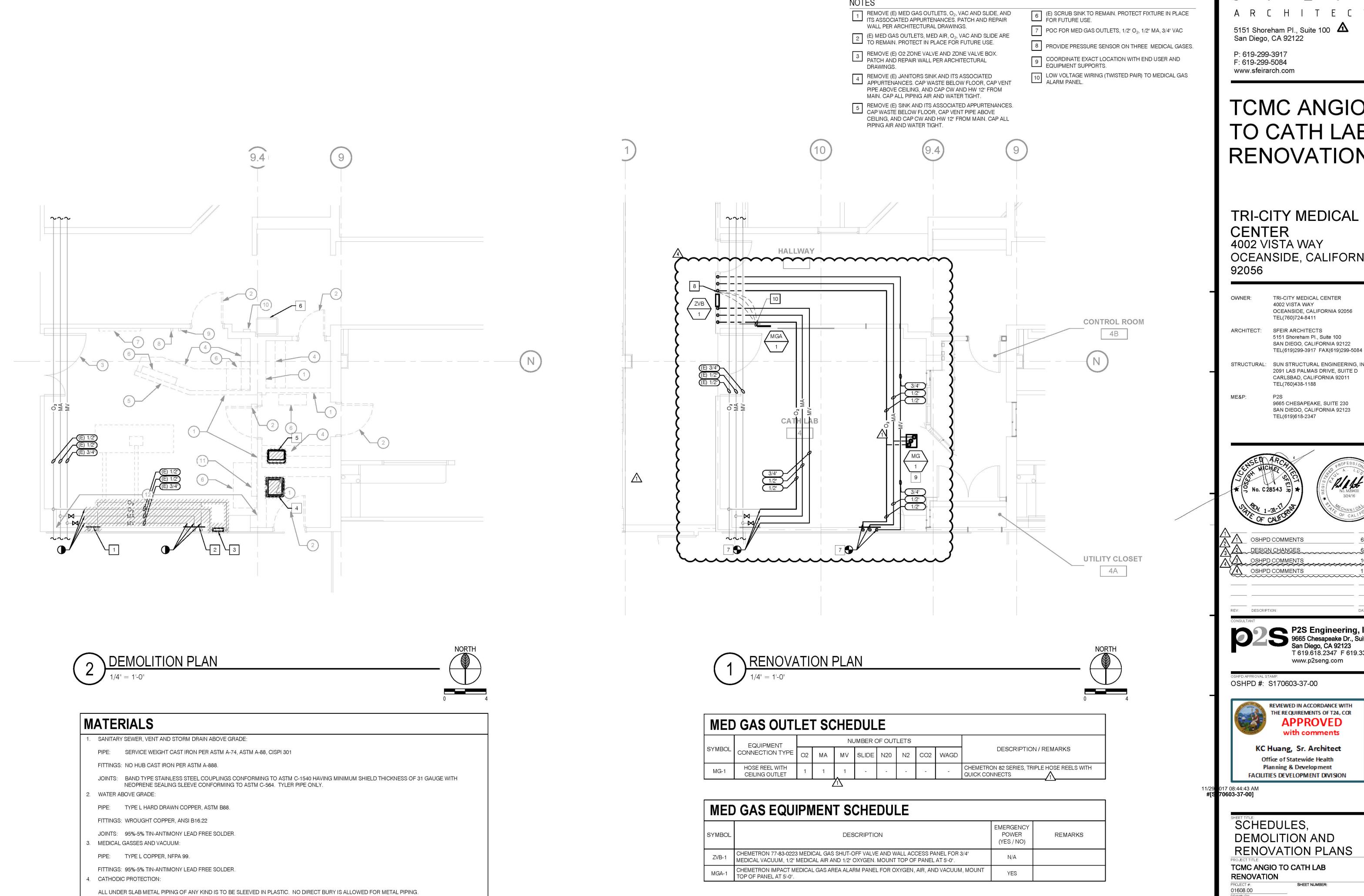
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100% CONSTRUCTION DOCUMENTS

STANDARD IN THE EVENT ABBREVIATIONS NOT MENTIONED

INDUSTRY CONVENTIONS.

HEREIN ARE USED, ABBREVIATIONS, AND OTHER STANDARD



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TCMC ANGIO TO CATH LAB RENOVATION

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STRUCTURAL: SUN STRUCTURAL ENGINEERING, INC. 2091 LAS PALMAS DRIVE, SUITE D

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SAN DIEGO, CALIFORNIA 92123

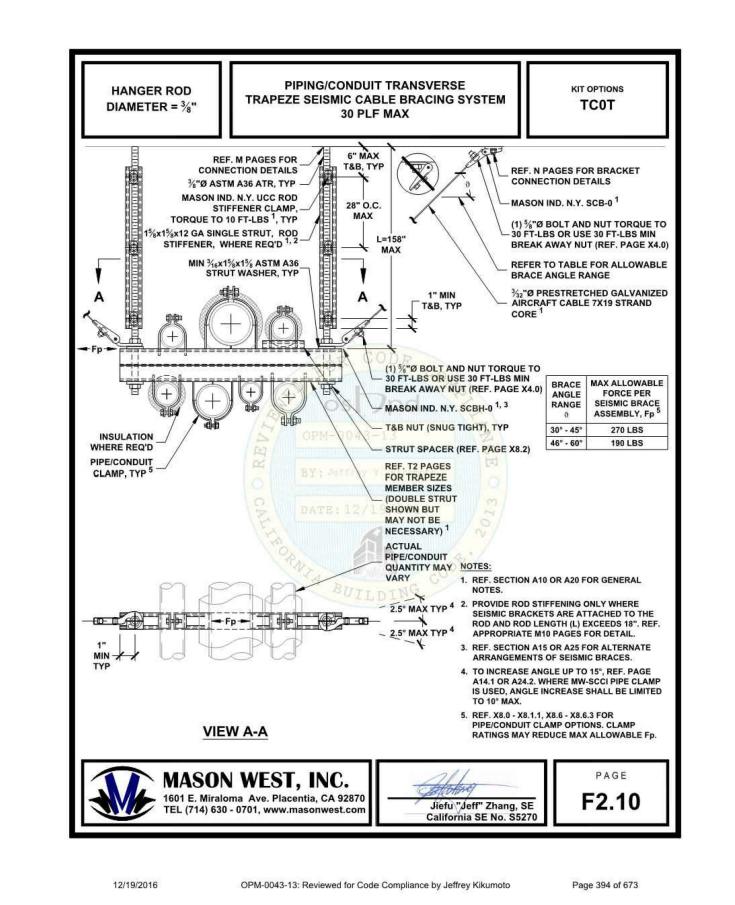
OSHPD COMMENTS

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

DEMOLITION AND



February 14, 2008
F Ratings – 1 and 2 Hr (See Item 1)
T Ratings – 0 and 1/4 Hr (See Item 1)

A

2

1A

3

SECTION A-A

System No. W-L-1296

1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 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. (51 BY 102MM) LUMBER SPACED MAX 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3-1/2" IN. (89 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC. ADDITIONAL FRAMING MEMBERS SHALL BE USED TO COMPLETELY FRAME AROUND OPENING.

B. GYPSUM BOARD* - MIN 5/8" IN. (16 MM) THICK, 4 FT (1.2M) WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS AND ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 WALL AND PARTITION DESIGN. MAX SIZE OF OPENING IS 210 SQ IN. (1355 CM²) WITH A MAX WIDTH OF 14-1/2 IN. (368 MM) FOR WOOD STUDS. MAX AREA OF OPENING IS 77.3 SQ FT. (7.2 M²) WITH A MAX WIDTH OF 105-1/2" IN. (2.7 M) FOR STEEL STUDS.

THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL IN WHICH IT IS INSTALLED.

2. COPPER PIPE - NOMINAL 4" OR SMALLER, REGULAR OR HEAVIER COPPER PIPE.

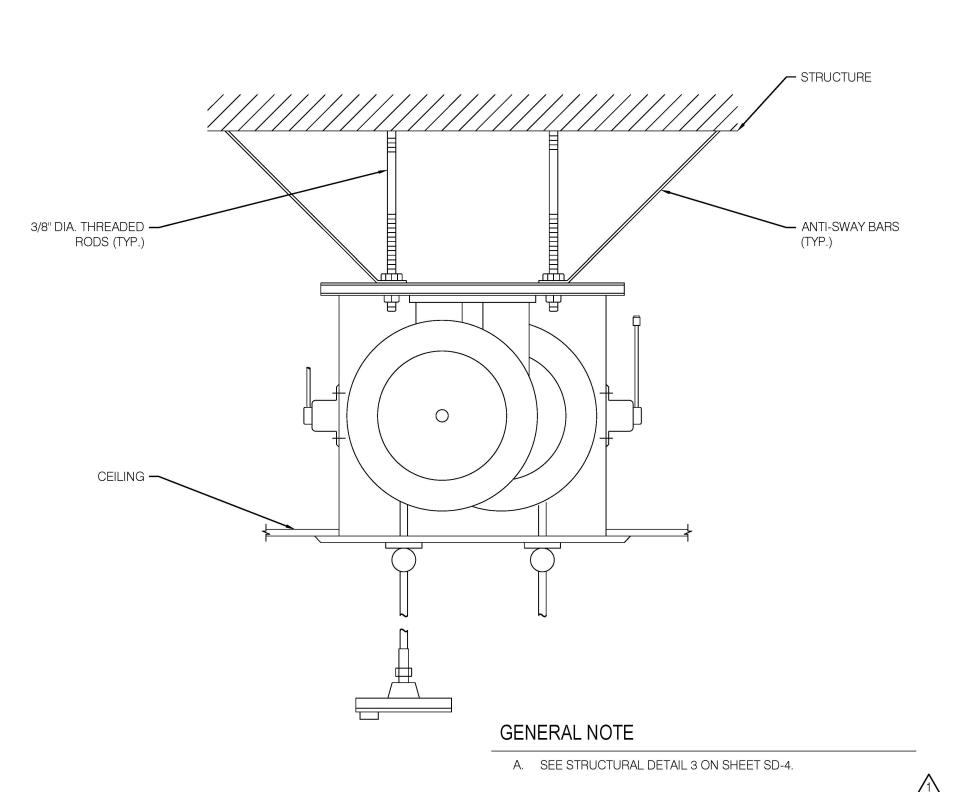
3. FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

A. MIN. 5/8" THICKNESS OF CAULK APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL.
 B. MIN. 1/4" DIA. BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL.

3M FIRE PROTECTION PRODUCTS - IC 15WB+, CP25WB+CAULK OR FB-3000 WT SEALANT

ANGER





HOSE REEL DETAIL

NO SCALE

PIPE SLEEVE ---PIPE AND **INSULATION TO** BE CENTERED IN TERMINATE SLEEVE SLEEVE - DO NOT FLUSH WITH FINISHED SUPPORT PIPE WALL SURFACES — FROM SLEEVE SEALANT (SEE SPEC.) - FINISHED ESCUTCHEON PLATE FLUSH AGAINST WALL & OF SIZE TO COMPLETELY COVER **OPENING** FINISHED WALL SURFACE

BARE PIPE THROUGH NON-RATED WALLS
NO SCALE

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OSHPD COMMENTS

6/23/17

DESIGN CHANGES

6/23/17

3 OSHPD COMMENTS

10/02/17

4 OSHPD COMMENTS

11/03/17

REV: DESCRIPTION:

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OSHPD #: S170603-37-00



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11/29 017 08:44:43 AM **#[S 70603-37-00]**

DETAILS

PROJECT TITLE:

TCMC ANGIO TO CATH LAB

RENOVATION

PROJECT #: SHEET NUMBER:

DRAWN BY:

CHECKED BY:

SCALE:

P601

PANELBOARD, 277/480V - SURFACE

ABBREVIATIONS

PROVIDE BACKBOX AND 1/2" CONDUIT TO CORRESPONDING HVAC UNIT

VOICE/DATA OUTLET- FLUSH WALL MOUNTED OUTLET BOX WITH 1"C.O.

VOICE - FLUSH WALL MOUNTED OUTLET BOX WITH 1"C.O. STUBBED 6"

SECURITY CARD READER. REFER TO DOOR DETAILS ON SHEET E601 FOR

DUPLEX RECEPTACLE, WALL MOUNTED @ +18" A.F.F. OR AS NOTED.

FOURPLEX RECEPTACLE, WALL MOUNTED @ 6" ABOVE COUNTER

GROUND FAULT CIRCUIT INTERRUPTER - MOUNTED +6" ABOVE

DUPLEX, GFCI - TYPE RECEPTACLE, WALL MOUNTED @ 6" ABOVE

COUNTER OR SPLASH. HOSPITAL GRADE. (CONNECT TO EMERGENCY

FOURPLEX, GFCI - TYPE RECEPTACLE, WALL MOUNTED @ 6" ABOVE

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COUNTER OR SPLASH. HOSPITAL GRADE. (CONNECT TO EMERGENCY

DUPLEX, GFCI - TYPE RECEPTACLE, WALL MOUNTED @ +18" A.F.F. OR

OR SPLASH. (CONNECT TO EMERGENCY GENERATOR)

AS NOTED. (CONNECT TO EMERGENCY GENERATOR)

NURSE CALL STAFF EMERGENCY STATION.

EMERGENCY OFF PUSHBUTTON

LIGHTING CONTROL SYSTEM POWER PACK

STUBBED 6" INTO ACCESSIBLE CEILING SPACE.

INTO ACCESSIBLE CEILING SPACE.

CONDUIT RISER INFORMATION.

COUNTER OR SPLASH.

COUNTER OR SPLASH.

GENERATOR)

(CONNECT TO EMERGENCY GENERATOR)

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
1/C	SINGLE CONDUCTOR	KVA	KILOVOLT-AMPERES
&	AND	KW	KILOWATT
@ A OR AMP	AT AMPERES	LF LIS	LINEAR FEET LOAD INTERRUPTER SWITCH
ABV	ABOVE	LOC.	LOCATION
A.C.	ASPHALT CONCRETE	LTG	LIGHTING
AFF	ABOVE FINISHED FLOOR	LV	LOW VOLTAGE
AFG AIC	ABOVE FINISH GRADE AMPERE INTERRUPTING CAPACITY	MAX MCC	MAXIMUM MOTOR CONTROL CENTER
AL	ALUMINUM	MCP	MOTOR CIRCUIT PROTECTOR
APPROX.	APPROXIMATE	MFGR	MANUFACTURER
ARCH.	ARCHITECT; ARCHITECTURAL	MH	MANHOLE MECHANICAL INTERIORICAL
ATC ATS	AIR TERMINAL CHAMBER AUTOMATIC TRANSFER SWITCH	MI. MRCT	MECHANICAL INTERLOCK MULTI-RATIO CURRENT TRANSFORMER
AUTO	AUTOMATIC	MTD	MOUNTED
AUX	AUXILIARY	MTG	MOUNTING
AWG	AMERICAN WIRE GAUGE	MV	MEDIUM VOLTAGE
BAT BEL	BATTERY BELOW	N NAC	NORTH NOTIFICATION APPLIANCE CIRCUIT
BKBD	BACKBOARD	NC	NORMALLY CLOSED
BKR	BREAKER	NEC	NATIONAL ELECTRICAL CODE
BLDG	BUILDING PARE STRANDED	NF NIC	NON-FUSED NOT IN CONTRACT
B.S. C	BARE STRANDED CONDUIT	NIC NL	NIGHT LIGHT- 24HRS ON
СВ	CIRCUIT BREAKER	NO.	NUMBER
CC	CONSTANT CURRENT	oc	ON CENTER
CKT	CIRCUIT	OD	OUTSIDE DIAMETER
CL CLG	CENTER LINE CEILING	OE OFC	OVERHEAD ELECTRICAL OIL FUSED CUTOUT
CMU	CONCRETE MASONRY UNIT	OH	OVERHEAD
C.O.	CONDUIT ONLY WITH PULL WIRE	OL	OIL LEVER SWITCH
COL	COLUMN	P	POLE
CP CPT	COMMUNICATION PROCESSOR CONTROL POWER TRANSFORMER	PB PC	PULL BOX PHOTOCELL
CR	CONTROL RELAY	PCB	POLYCHLORINATED BIPHENYL
CSU	CALIFORNIA STATE UNIVERSITY	PDS	PRESSURE DIFFERENTIAL SWITCH
CSFD	COMBINATION SMOKE FIRE DAMPER	PF BU OB &	POWER FACTOR
CT CW	CURRENT TRANSFORMER COLD WATER	PH OR Ø PILC	PHASE PAPER INSULATED, LEAD COVER
CU	COPPER	PIV	POST INDICATING VALVE
DIAG	DIAGRAM	PL	PLATE
DL	DAMP LOCATION LISTING	PNL	PANEL PROPERTY OF CONTROL OF CONT
DM DP	DIGITAL METER DISTRIBUTION PANEL	POC PRI.	POINT OF CONNECTION PRIMARY
DIST.	DISTANCE	PVC	POLY-VINYL CHLORIDE
DWG	DRAWING	PWR	POWER
DWP	DEPARTMENT OF WATER & POWER	REC/RECEPT	RECEPTACLE
EA ELEC.	EACH ELECTRICAL	req'd rgs	REQUIRED RIGID GALVANIZED STEEL
EMH	ELECTRICAL MANHOLE	RPBP	REDUCED PRESSURE BACK FLOW PREVENT
EMT	ELECTRICAL METALLIC TUBING	RM	ROOM
EPO EPO	EMERGENCY POWER OFF	SCE SF	SOUTHERN CALIFORNIA EDISON
EPR EQUIP	ETHYLENE PROPYLENE RUBBER EQUIPMENT	SHT	SQUARE FEET SHEET
EXIST/(E)	EXISTING	SIG.	SIGNAL
EXP	EXPLOSION PROOF	SP	SPARE
FA	FIRE ALARM	SPECS	SPECIFICATIONS
FFE FIN.	FINISHED FLOOR ELEVATION FINISH	ST STD	STREET STANDARD
FIP.	FIELD INTERFACE PANEL	SW	SWITCH
FIXT	FIXTURE	SWBD	SWITCHBOARD
FLA	FULL LOAD AMPS	SWGR	SWITCHGEAR
FLR FLUOR	FLOOR FLUORESCENT	SWST TB	SWITCHING STATION TERMINAL BLOCK
FT	FEET	TEL./TELE	TELEPHONE
FACP	FIRE ALARM CONTROL PANEL	TMH	TELEPHONE MANHOLE
FATC FO	FIRE ALARM TERMINAL CABINET	T.O.D.	TOP OF MANUALE
FTG	FIBER OBTIC FOOTING	T.O.M. TPS	TOP OF MANHOLE TWISTED SHIELDED PAIR
GFI	GROUND FAULT INTERRUPTER	TRANSF/XFMR	TRANSFORMER
GFR	GROUND FAULT RELAY	TS	TAMPER SWITCH
GG	GREEN GROUND GROUND	TYP UG	TYPICAL
GND HOA	HAND-OFF-AUTOMATIC	UON	UNDERGROUND UNLESS OTHERWISE NOTED
HP	HORSEPOWER	V	VOLTS
HT	HEIGHT	VA	VOLT-AMPERES
HTR	HEATER	VB VED	VIBRATION SWITCH
HZ IE	HERTZ INVERT ELEVATION	VFD W	VARIABLE FREQUENCY DRIVE WATTS
ISC	SHORT CIRCUIT CURRENT	W/	WITH
INCAND	INCADESCENT	W/O	WITHOUT
JB	JUNCTION BOX	WP	WEATHERPROOF
KCMIL KV	THOUSAND CIRCULAR MILS KILOVOLT	Z (ER)	IMPEDANCE EXISTING TO REMAIN
		(ERR)	EXISTING TO TO BE REMOVED, RELOCATED
IN THE EVENT A	BBREVIATIONS NOT MENTIONED HEREIN A		RECONNECTED ICE WILL BE MADE TO ANSI Y1.1, MILITARY
	BREVIATIONS, AND OTHER STANDARD INDU		

SHEET INDEX

SHEET	DESCRIPTION
E001	GENERAL NOTES, LEGEND, ABBEVIATIONS
E002	SCHEDULES AND SINGLE LINE DIAGRAMS
E100	PARTIAL OVERALL PLAN
E200	DEMOLITION PLAN
E201	RENOVATION LIGHTING AND POWER PLANS

RENOVATION ROOF PLAN

APPLICABLE CODES: 2015 IBC AND 2016 CALIFORNIA AMENDMENTS 2014 NEC AND 2016 CALIFORNIA AMENDMENTS 2015 UMC AND 2016 CALIFORNIA AMENDMENTS 2015 UPC AND 2016 CALIFORNIA AMENDMENTS (PUBLISHER: IAPMO) 2015 IFC AND 2016 CALIFORNIA AMENDMENTS

- ACCORDANCE WITH THE CALIFORNIA BUILDINGS STANDARD CODE, TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHERE IN THE FINISHED WORK WILL NOT COMPLY WITH THE SAID TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OFFICE OF STATE WIDE HEALTH PLANNING AND DEVELOPMENT BEFORE PROCEEDING WITH THE WORK.
- REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM 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 ANCHOR AND/OR PIN.
- 5. CUT AND PATCH EXISTING CEILING AND WALL CONSTRUCTION AS REQUIRED FOR CONDUIT, OUTLET BOX, SUPPORTS AND EQUIPMENT INSTALLATION. REPAIR OF EXISTING CONSTRUCTION SHALL MATCH EXISTING TO THE ARCHITECTS SATISFACTION.
- 6. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CEILING MOUNTED FIXTURES, SMOKE DETECTORS, SPEAKERS & OUTLETS.
- 7. ALL CONDUIT PENETRATIONS OF FIRE RATED WALLS, FLOORS AND ROOF SHALL BE FIRE STOPPED.
- 8. CONTRACTOR SHALL COMPLY WITH ALL GROUNDING AND BONDING REQUIREMENTS OF C.E.C.
- 9. ADJUST CEILING MOUNT SMOKE DETECTOR LOCATIONS IF REQUIRED TO PROVIDE 3 FOOT MINIMUM DISTANCE FROM SUPPLY AIR DIFFUSERS. CEILING MOUNT SMOKE DETECTORS AT FIRE DOORS. SHALL BE LOCATED 5 FOOT MAXIMUM FROM FIRE DOOR.
- 11. LOCATIONS OF DISCONNECT SWITCHES AND CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT ARE SHOWN DIAGRAMMATICALLY. VERIFY ACTUAL CONNECTION LOCATIONS WITH EQUIPMENT SHOP DRAWINGS AND LOCATE DISCONNECT SWITCHES TO PROVIDE CODE REQUIRED CLEARANCES AND ACCESS. DISCONNECT SWITCHES ON ROOF SHALL BE 30" MINIMUM ABOVE ROOF. PROVIDE ANGLE IRON SUPPORT BRACKETS.
- 12. IF THIS PROJECT IS TO BE CONSTRUCTED IN MULTIPLE PHASES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THEIR WORK WITH THE ARCHITECTURAL PLANS AND ALL OTHER TRADES AND INSTALL IN SUCH A WAY THAT IT DOES NOT AFFECT THE ADJOINING OCCUPIED SPACES

DEMOLITION NOTES

- 2. THE OWNER RESERVES THE RIGHT TO SALVAGE ANY DEMO ITEM. VERIFY ITEMS TO BE SALVAGED WITH THE OWNER PRIOR TO THE START OF DEMOLITION. REMOVE, PROTECT, AND TURN OVER SUCH ITEMS
- 3. ALL EXISTING ELECTRICAL, LIGHTING, TELEPHONE, DATA, AND PUBLIC ADDRESS CONDUIT AND WIRING SHALL REMAIN EXCEPT WHERE INDICATED OTHERWISE ON THESE PLANS. RECONNECT EXISTING OUTLETS, DEVICES AND CIRCUITS IN ADJACENT SPACES DISRUPTED BY REMOVAL OF EXISTING
- 4. PROTECT ALL EXISTING CONDUIT, WIRE AND SIGNAL SYSTEMS CABLES PASSING THRU REMODEL AREAS THAT SERVE ADJACENT AREAS.
- 5. WHERE NEW WALL OR CEILING OR OTHER CONSTRUCTION WILL COVER EXISTING OUTLETS, EQUIPMENT OR DEVICES MAKING THEM INACCESSIBLE, RELOCATE THE EXISTING OUTLET, EQUIPMENT OR DEVICE AS REQUIRED OR MAKE OTHER PROVISIONS TO PROVIDE ACCESS.
- 6. RECONNECT EXISTING OUTLETS, LIGHTS, ETC. THAT ARE TO REMAIN THAT ARE DISRUPTED BY REMOVAL OF OTHER EXISTING OUTLETS IN THE CONDUIT RUN AS REQUIRED TO PROVIDE CONTINUITY
- 11. WHERE EXISTING DEVICES OR EQUIPMENT ARE INDICATED TO BE REMOVED IN WALLS THAT ARE TO REMAIN, ALSO REMOVE OUTLET BOX OR BACKBOX AND PATCH WALL FINISH TO MATCH
- 12. WHERE EXISTING OUTLETS ARE REMOVED AND THE EXISTING CIRCUIT IS NOT SERVING REMAINING OUTLETS. REMOVE EXISTING WIRE AND CONDUIT BACK TO THE SERVING PANELBOARD AND UPDATE THE PANELBOARD CIRCUIT DIRECTORY INDICATING "SPARE" FOR ALL UNUSED CIRCUIT BREAKERS.

GENERAL NOTES

(2016 CALIFORNIA BUILDING CODE - PART 2, TITLE 24, CCR) (2016 CALIFORNIA ELECTRICAL CODE - PART 3, TITLE 24, CCR) (2016 CALIFORNIA MECHANICAL CODE - PART 4, TITLE 24, CCR) (2016 CALIFORNIA PLUMBING CODE - PART 5, TITLE 24, CCR)-

(2016 CALIFORNIA FIRE CODE - PART 9, TITLE 24, CCR)

- 2. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO RECONSTRUCT THE HOSPITAL BUILDING IN
- 3. WHEN INSTALLING DRILLED-IN ANCHORS/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED
- 4. ALL ELECTRICAL SERVICES IN THE HOSPITAL ARE TO REMAIN OPERATIONAL DURING THE ENTIRE CONTRACT PERIOD. ANY INTERRUPTION OF ELECTRICAL POWER FOR THE PERFORMANCE OF THIS WORK SHALL BE ONLY AT SUCH TIME AND SUCH DURATION AS APPROVED IN WRITING BY THE OWNER.

- FIRE STOP MATERIALS SHALL BE TESTED ASSEMBLY APPROVED BY THE OSHPD FIRE MARSHAL.
- 517-13,15 & 78.
- 10. PROVIDE LOWRY SOUND DEADENING CLAY PADS ON BACK & SIDES OF ALL OUTLETS & BACKBOXES IN COMMON WALLS OF PATIENT ROOMS.
- AND MEETS ALL OF THE REQUIREMENTS OF CONTRACT DOCUMENTS AND SPECIFICATIONS.
- 12. ALL ELECTRICAL DEVICE LOCATIONS AND CONDUIT ROUTING INDICATED ON DRAWINGS ARE DIAGRAMMATICALLY SHOWN.

- 1. DRAWINGS OF EXISTING CONDITIONS HAVE BEEN COMPILED FROM EXISTING DATA SUPPLIED BY THE OWNER TO THE ARCHITECT. THE ARCHITECT MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, FOR THE ACCURACY OR COMPLETENESS OF THE EXISTING INFORMATION RECORDED. FIELD VERIFY ALL EXISTING CONDITIONS NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
- BY DIRECTED BY THE OWNER.
- OUTLETS, DEVICES OR CIRCUITS IN THIS CONTRACT.
- OF THE CIRCUITS.
- 7. REMOVE ALL EXISTING CONDUITS IN CEILING SPACES FOR SYSTEMS, EQUIPMENT AND DEVICES OR OUTLETS BEING REMOVED THAT ARE NOT BEING REUSED AND ALL ABANDONED EXISTING CONDUITS. REMOVE ALL EXISTING CONDUITS IN WALLS OR FLOORS FOR DEVICES BEING REMOVED THAT INTERFERE WITH NEW CONSTRUCTION. REMOVE WIRE FROM ABANDONED CONDUITS.
- 8. REMOVE ALL ABANDONED SIGNAL SYSTEM CABLES IN CEILING SPACE.

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- 9. THE WORD "ELECTRICAL" USED IN THE CONTEXT OF THESE DEMOLITION PLANS INCLUDES LIGHTING, ELECTRICAL DEVICES & EQUIPMENT, AND ALL SIGNAL SYSTEMS.
- 10. REFER TO LIGHTING, POWER & SIGNAL PLANS FOR ADDITIONAL EXISTING ELECTRICAL TO REMAIN.
- SURROUNDING AREA.

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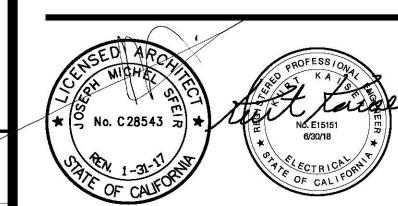
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STRUCTURAL: SUN STRUCTURAL ENGINEERING, INC. 2091 LAS PALMAS DRIVE, SUITE D CARLSBAD, CALIFORNIA 92011

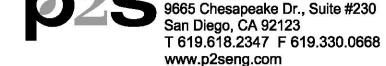
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DESIGN CHANGES 6/23/17 OSHPD COMMENTS 11/03/17

REV: DESCRIPTION: P2S Engineering, Inc.



OSHPD APPROVAL STAMP: OSHPD #: S170603-37-00



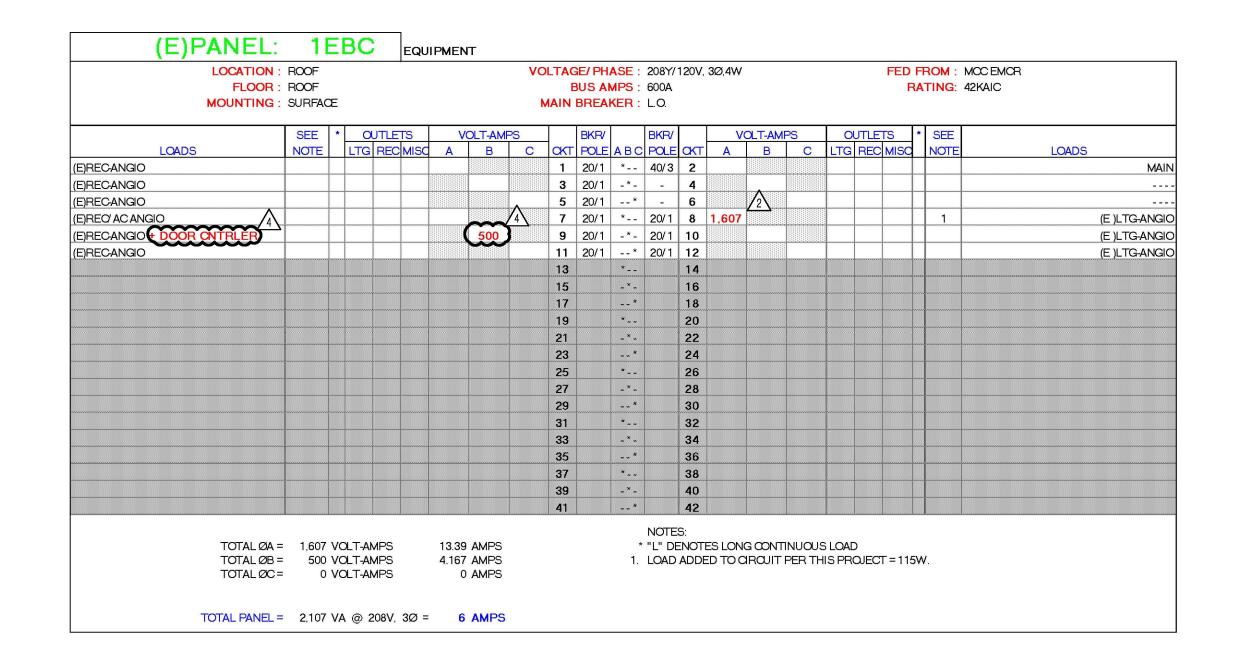
KC Huang, Sr. Architect Office of Statewide Health Planning & Development FACILITIES DEVELOPMENT DIVISION

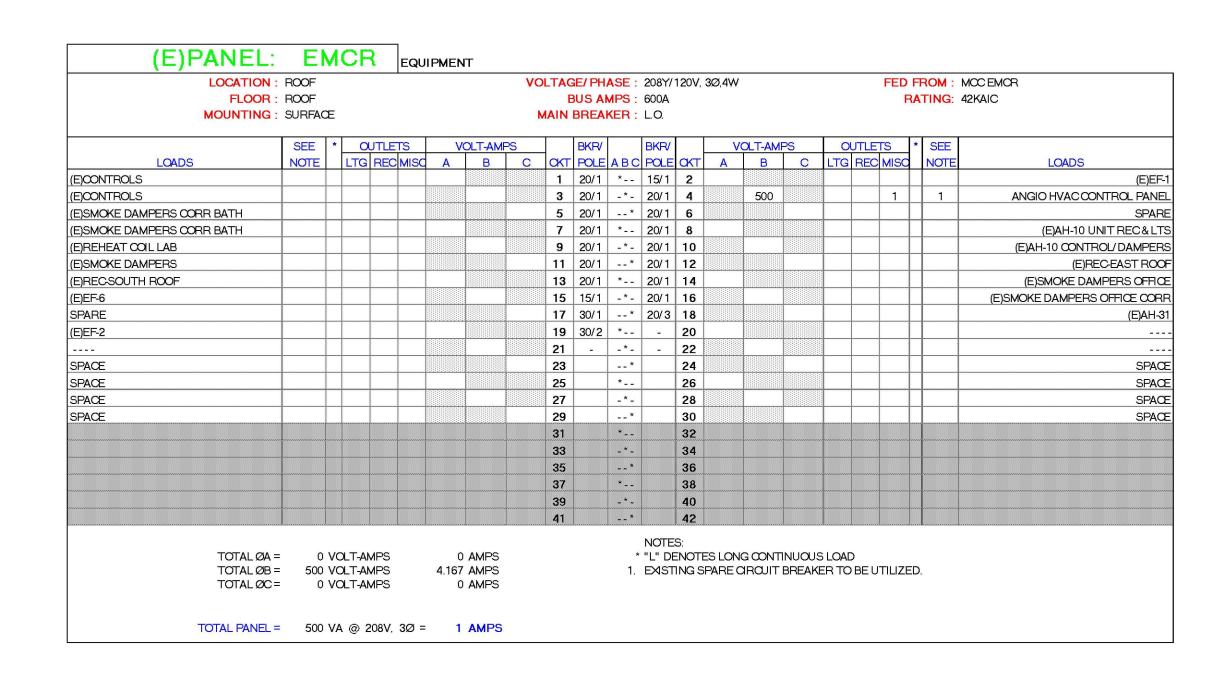
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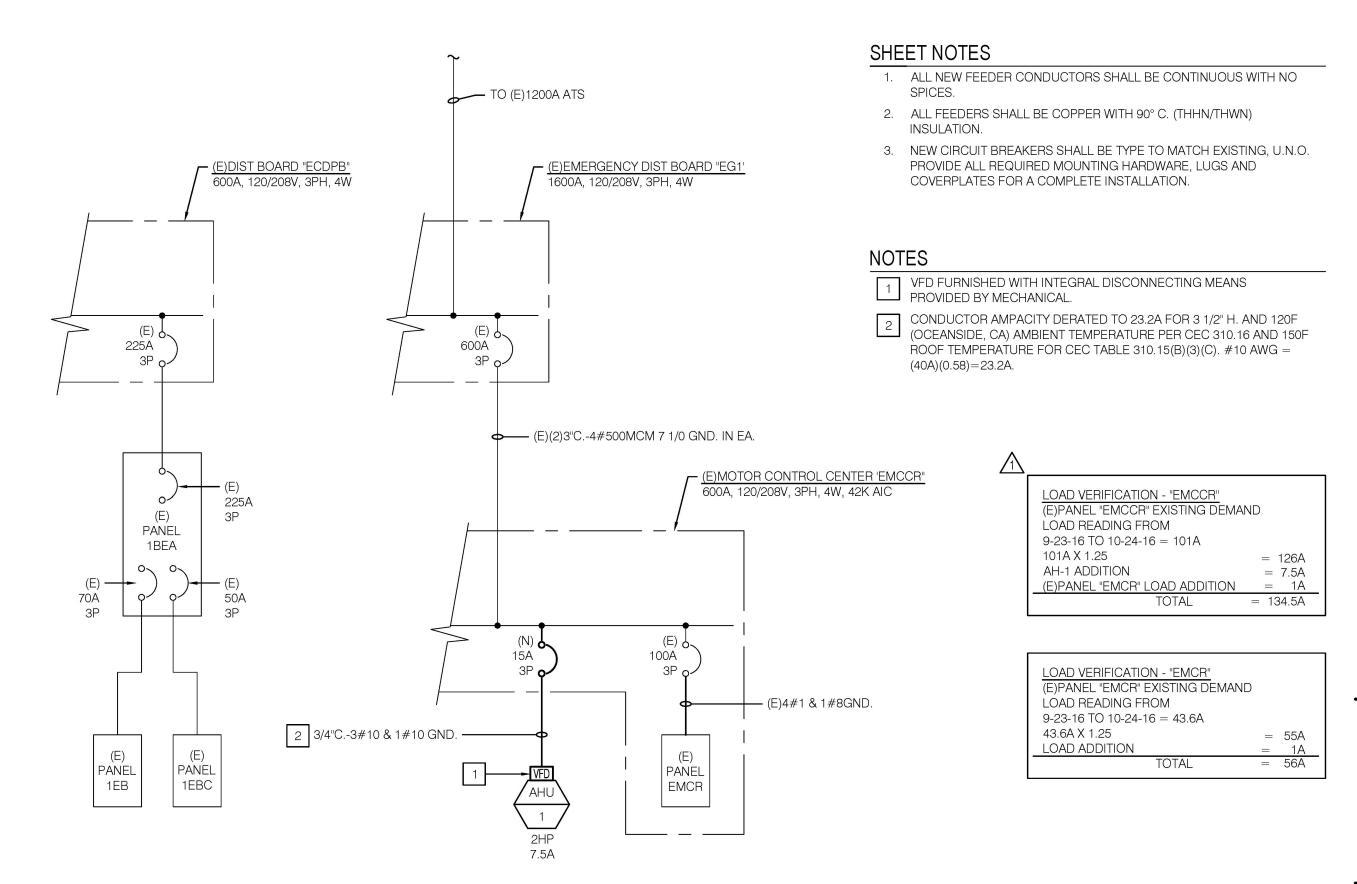
> GENERAL NOTES, **LEGEND AND ABBREVIATIONS**

TCMC ANGIO TO CATH LAB RENOVATION SHEET NUMBER:

01608.00 DRAWN BY: CHECKED BY







TYPE	DESCRIPTION	TOTAL	LAMPS			VOLTAGE	MTG.	REMARKS	
	DESCRIPTION	V-A	NO.	V-A	TYPE	VOLIAGE	MTG.	NEIVIANNS	
	A 28	RECESSED GYPSUM MOUNTED DIMMABLE 2' X 2' 4000K LED WITH OPAL ACRYLIC CENTER LENS. STANDARD 0-10V DIMMING DRIVER. FOCAL POINT #FEQ2-22-AC-2500L-40K-1C-UNV-LD1-G-WH	28	-	28	LED	UNV	R	NOTES 1, 2
	AE 28	SAME AS FIXTURE TYPE A, EXCEPT WITH EMERGENCY BATTERY PACK.	28	-	28	LED	UNV	R	NOTES 1, 2, 3
	A2 37	RECESSED GYPSUM MOUNTED DIMMABLE 2' X 2' 4000K LED WITH OPAL ACRYLIC CENTER LENS. STANDARD 0-10V DIMMING DRIVER. FAIL-SAFE #CLPG-24-2-INS-A19156-40-UNV-EDD1-AMD-MSB4	37	-	37	LED	UNV	R	NOTES 1, 2
	B 31	24" WIDE SURFACE MOUNTED WRAP AROUND LED FIXTURE WITH FROSTED PRIMATIC ACRYLIC DIFFUSER H.E. WILLIAMS #17-2-L27/835-AF-DRV-UNV	77	-	77	LED	120	R	NOTES 1, 2
	D1 21	RECESSED GYPSUM MOUNTED DOWNLIGHT LED WITH FROSTED MICROPRISMATIC LENS, WET LOCATION LISTED, 3500K, 1500 LUMENS, STANDARD 0-10V DIMMING DRIVER. KIRLIN #MRR-07850-1500L-WFL	21	-	21	LED	120	R	NOTES 1, 2
	D1E 21	SAME AS FIXTURE TYPE D1, EXCEPT WITH EMERGENCY BATTERY PACK.	21	-	21	LED	120	R	NOTES 1, 2
GENERAL NOTES: ALL LED LUMINAIRES SHALL BE PROVIDED WITH 3500K COLOR TEMPERATURE LAMPS (UNLESS OTHERWISE NOTED) AND ELECTRONIC DRIVER AS SPECIFIED.								ABBREVIATIONS: P = PENDANT R = RECESSED S = SURFACE W = WALL PO = POLE	
		KEY NOTES: PROVIDE COMPLETE WITH ALL MOUNTING HARDWARE REQUIRED FOR A COMPINSTALLATION.	PLETE						
		2. REFER TO ARCHITECTURAL PLANS FOR CEILING TYPE. 3. PROVIDE FIXTURE COMPLETE WITH EMERGENCY BATTERY PACK WITH INTEGRAL TEST SWITCH, 90-MINUTE OPERATION.							

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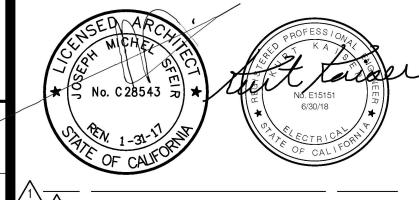
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OSHPD COMMENTS 11/03/17

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OSHPD #: S170603-37-00



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

11/29 017 08:44:43 AM **#[S 70603-37-00]**

SCHEDULES AND SINGLE LINE DIAGRAMS

TCMC ANGIO TO CATH LAB RENOVATION

01608.00

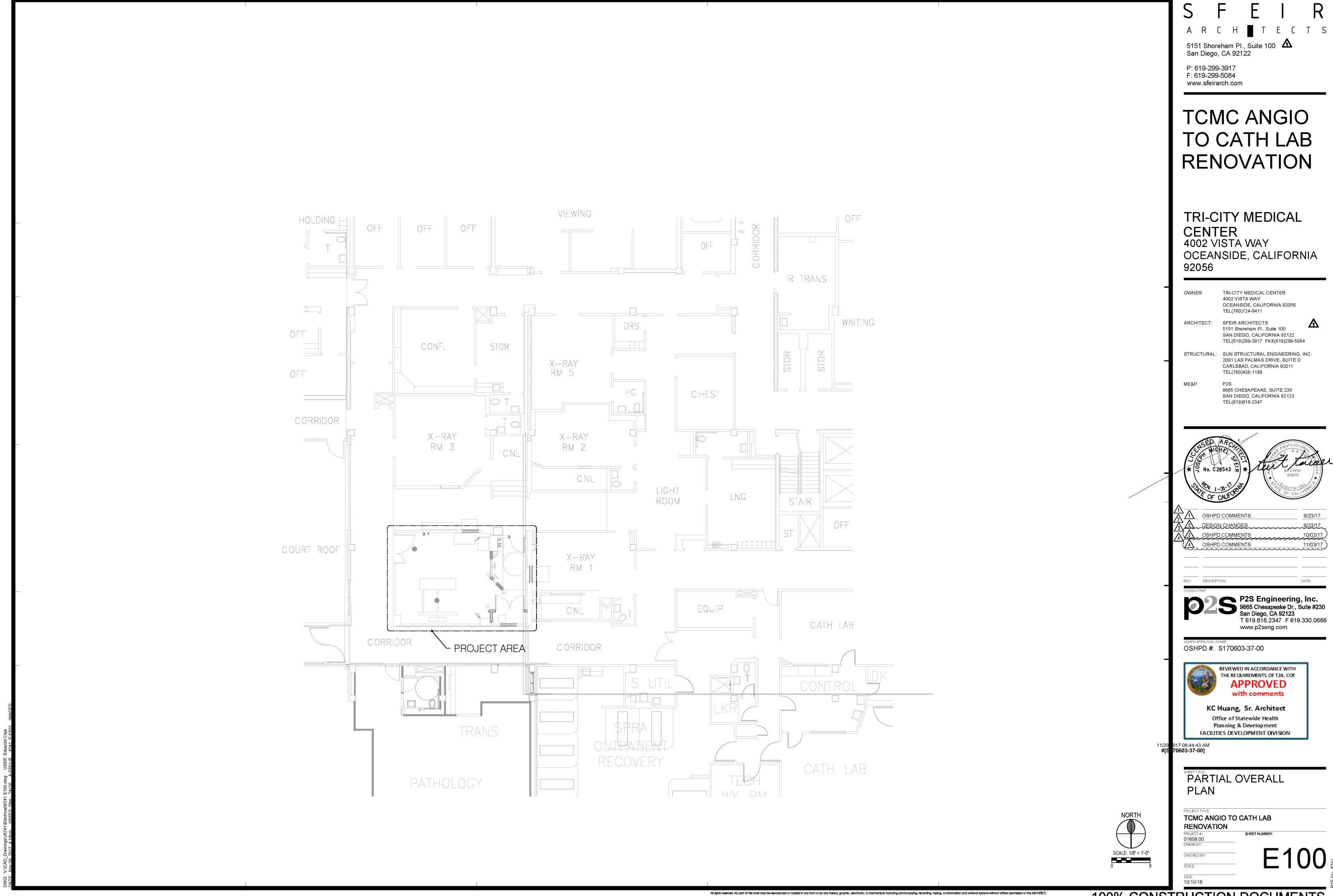
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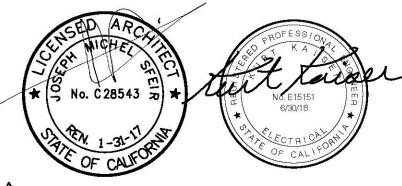
100% CONSTRUCTION DOCUMENTS

CRITICAL BRANCH

EQUIPMENT BRANCH

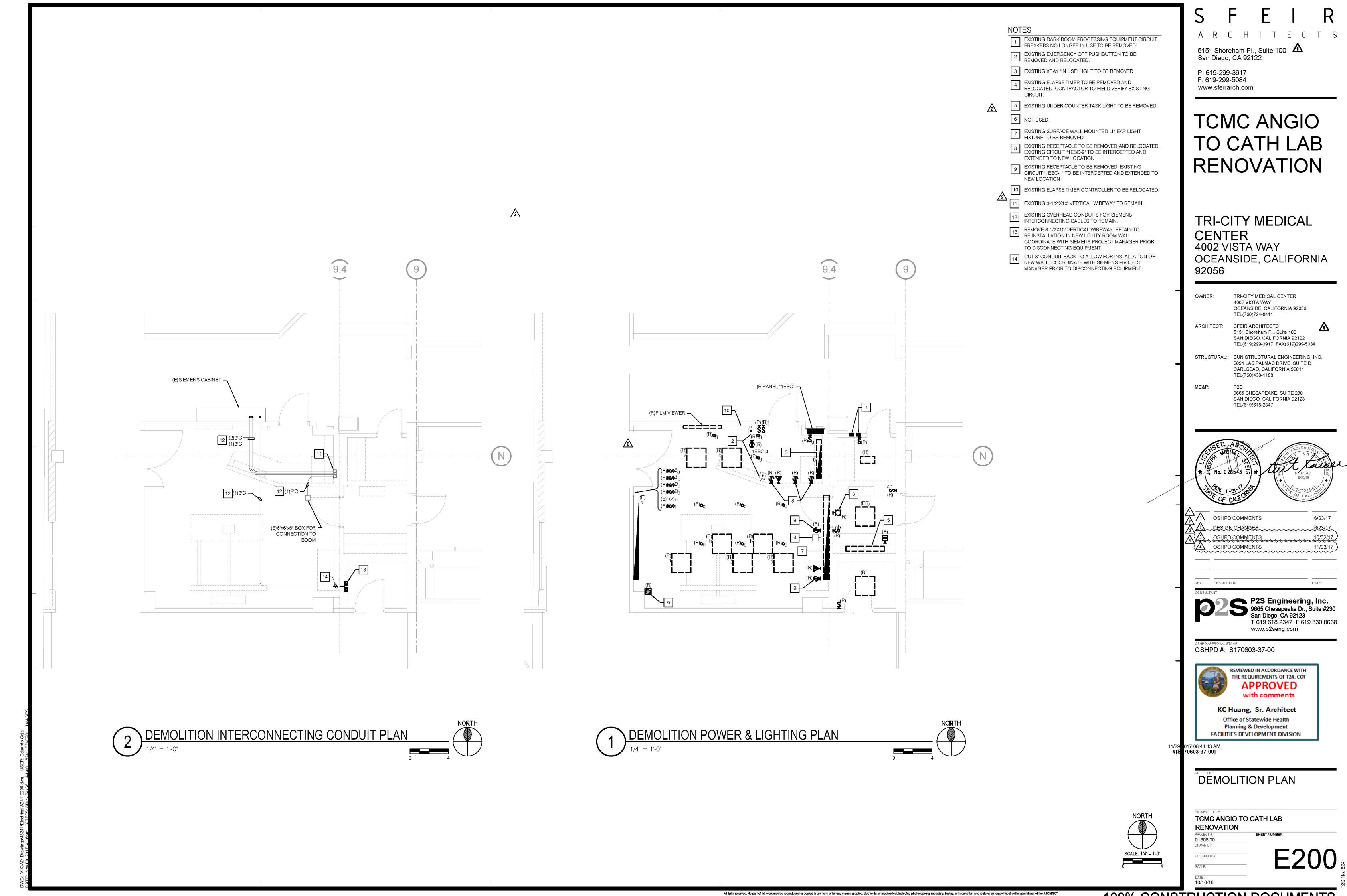
SINGLE LINE DIAGRAMS

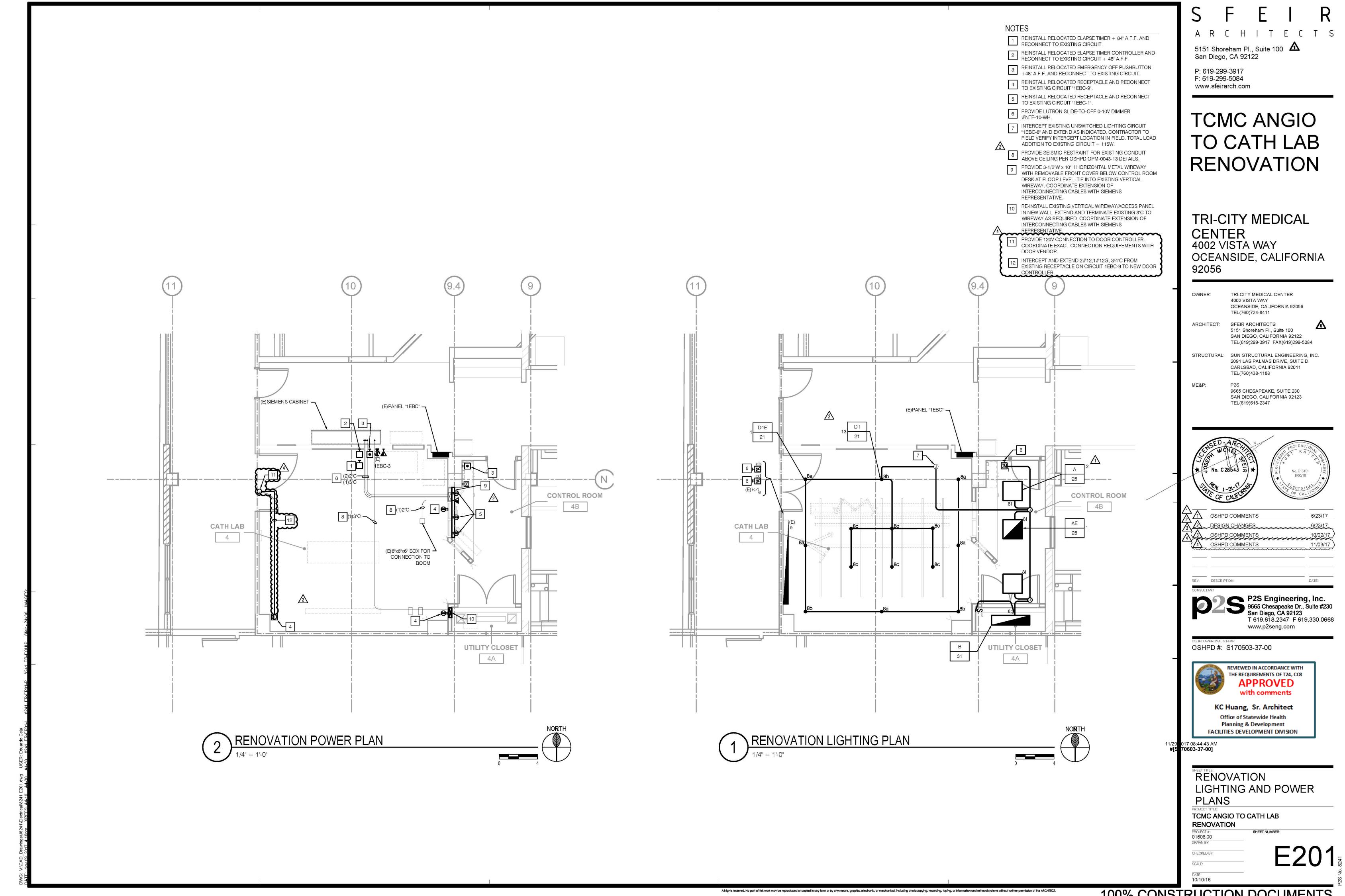


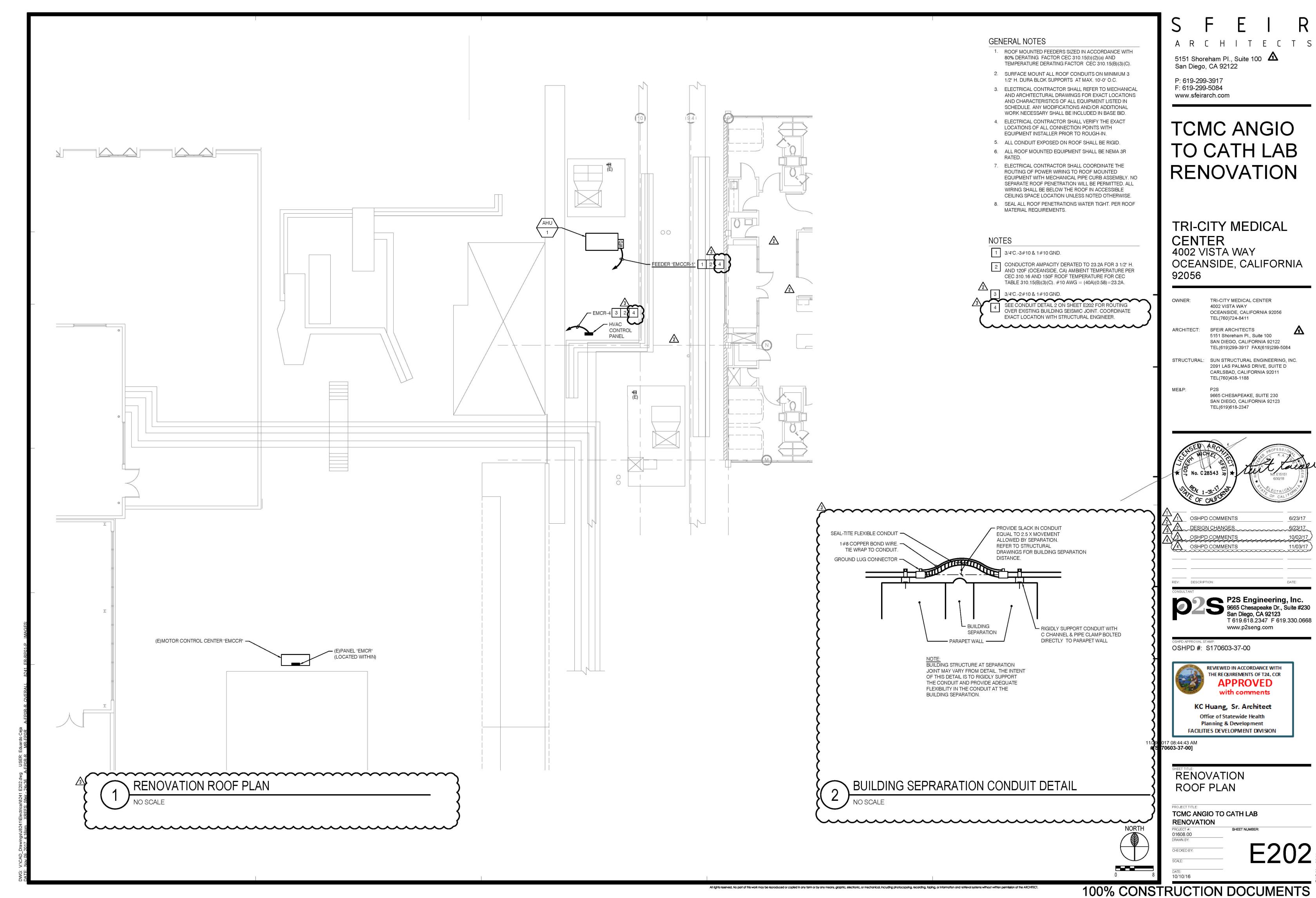


OSHPD COMMENTS 11/03/17

E100 5







DEVICE SCHEDULE								
SYMBOL	MANUF.	CATALOG#	DESCRIPTION	C.S.F.M.	MOUNTING INFORMATION			
FACP	NOTIFIER	AFP-400	EXISTING FIRE ALARM CONTROL PANEL		CUSTOM			
NAC	NOTIFIER	FCPS-24S8	EXISTING NAC POWER EXTENDER PANEL		CUSTOM			
®	NOTIFIER	FSP-751	EXISTING PHOTOELECTRIC SMOKE DETECTOR		MOUNTS TO DETECTOR BASE SINGLE GANG ELECTRICAL BOX			
□d¤	WHEELOCK	CH70-24MCC-FR	EXISTING WALL MOUNTED CHIME/ STROBE		4S BOX			
¤c	SYSTEM SENSOR	SCR	CEILING MOUNTED STROBE	7125-1653:0186	4S BOX			
EOL -W-			EXISTING END OF LINE RESISTER					

WIRE LEGEND						
WIRE TYPE DESCRIPTION	WIRE DESCRIPTION	USED ON				
М	2-CONDUCTOR TWISTED PAIR SOLID CABLE NON-SHIELD #18 AWG WEST PENN 980 FPLR	INITIATING DEVICE				
V	2 #12 AWG SOLID THHN	STROBE				
Р	2 #12AWG SOLID THHN	AUXILIARY POWER				

EXAMPLE:

NUMBER OF CONDUCTOR PAIRS

WIRE TYPE DESIGNATION

METALLIC RACEWAY/OPEN CABLE/PLENUM

CABLE/ETC. (WHERE APPLICABLE)

ABOVE EXAMPLE "2B" MEANS "2 PAIRS OF #14 AWG WIRE"

ALL WIRE AND CABLE TO BE SIGNED, TYPED AND CONDUIT FILL PER

CALIFORNIA ELECTRICAL CODE AND MANUFACTURER'S RECOMMENDATION.

EXISTING SEQUENCE OF OPERATIONS										
DEVICE ACTION	MANUAL PULL STATION	AREA SMOKE DETECTOR	DUCT SMOKE DETECTOR	ELEVATOR LOBBY SMOKE DETECTOR	SPRINKLER WATER FLOW SWITCH					
ANNUNCIATE AT FIRE ALARM CONTROL PANEL (ALARM OR TROUBLE)	YES	YES	YES	YES	YES					
ANNUNCIATE AT 24 HOURS ATTENDED REMOTE LOCATION	YES	YES	YES	YES	YES					
ACTIVATE AUDIBLE ALARM SIGNALS THROUGHOUT BUILDING	YES	YES	YES	YES	YES					
RECALL ELEVATOR SERVING FIRE FLOOR	NO	NO	NO	YES	NO					
SHUT DOWN AIR HANDLING (HVAC) THROUGHOUT BUILDING IN ALARM	NO	NO	YES	NO	NO					

GENERAL NOTES

- CONTROL CIRCUITS ARE NON POWER LIMITED. MINIMUM RECOMMENDED WIRE SIZE TO BE DETERMINED BY CIRCUIT LOAD.
- 2. WIRING SHALL NOT BE LOOPED THROUGH DEVICES UPON TERMINATION. (WIRE MUST BE CUT FOR IN AND OUT RUNS PRIOR TO DEVICE TERMINATION.
- 3. WHERE SHIELDED CABLE IS USED, THE SHIELD SHALL BE CONTINUOUS AND GROUNDED ONLY AT THE RESPECTIVE CONTROL PANEL.
- 4. T-TAPPING OR PARALLEL BRANCHING OF NOTIFICATION APPLIANCE DEVICE CIRCUITS IS NOT PERMITTED
- 5. ELECTRICAL CONTRACTOR IS REQUIRED TO USE: COLOR CODE, WIRE NUMBERS, OR AS SPECIFIED IN THE PROJECT SPECIFICATIONS ON ALL CIRCUITS AND SHALL BE CONTINUOUS, OTHERWISE, NO FINAL CONNECTIONS OR TESTING SHALL BE PERFORMED. IF WIRE COLOR CODING IS USED, GREEN WILL BE USED FOR GROUND BONDING ONLY.
- 6. POINT AND COMMON ANNUNCIATION AND T-TAPPING PROHIBITED.
- 7. ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANELS SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION. (FIRE ALARM CONTROL PANEL(S) TO SUPERVISE ANNUNCIATOR PANEL(S), SUB-PANEL(S), ALL CIRCUITS AND INITIATING DEVICES).
- 8. FIRE ALARM SIGNAL SHALL MEET ANSI S3.41, AUDIBLE EMERGENCY EVACUATION SIGNAL (TEMPORAL PATTERN).
- 9. AUDIBILITY OF ALARM SHALL BE NOT LESS THAN 15DB ABOVE AMBIENT SOUND THROUGHOUT THE AREA OF ALARM.
- 10. ALL STROBE APPLIANCES SHALL BE SYNCHRONIZED IN ACCORDANCE WITH NATIONAL FIRE ALARM CODE (NFPA 72). REFERENCE APPLICABLE EDITIONS UNDER "APPLICABLE CODES & REGULATIONS".
- 11. STROBE APPLIANCE LOCATIONS ARE BASED ON 10 FOOT CEILING HEIGHTS AND ARE INSTALLED IN ACCORDANCE WITH NATIONAL FIRE ALARM CODE (NFPA 72) UNLESS OTHERWISE NOTED. REFERENCE APPLICABLE EDITIONS UNDER APPLICABLE CODES & REGULATIONS".
- 12. WALL-MOUNTED STROBE AND CHIME/STROBE APPLIANCES SHALL BE MOUNTED A MINIMUM OF 80 INCHES ABOVE FINISHED FLOOR OR 6 INCHES MINIMUM BELOW THE CEILING, (WHICH EVER IS LOWER). MEASUREMENT ARE TO BE TAKEN FROM BOTTOM OF STROBE.
- 13. REFER TO RESPECTIVE CATALOG CUT SHEETS FOR ELECTRICAL MOUNTING HARDWARE.
- 14. ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL.
- 15. AUDIBILITY WILL BE DETERMINED BY THE FIELD FIRE MARSHAL.
- 16. ALL FIRE ALARM CIRCUITS SHALL BE LABELED AT CONNECTIONS AND AT JUNCTION BOXES.
- 17. DUCT SMOKE DETECTORS SHALL BE TESTED FOR DUCT VELOCITY AND PRESSURE DIFFERENTIAL IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- 18. DIFFERENTIAL PRESSURE SWITCHES SHALL BE SUPPLIED AND INSTALLED BY A LICENSED MECHANICAL CONTRACTOR. THE ELECTRICAL CONNECTION TO THE DIFFERENTIAL PRESSURE SWITCH.
- 19. UNLESS OTHERWISE NOTED ALL WIRING AND INSTALLATION METHODS SHALL CONFORM TO CALIFORNIA ELECTRICAL CODE (CEC), ARTICLE 760. SEE APPLICABLE EDITION UNDER "APPLICABLE CODES & REGULATIONS".
- 20. ALL WIRE CONDUCTORS SHALL BE POWER LIMITED COPPER WIRING AND INSTALLED WITHIN A METALLIC RACEWAY.
- 21. ALL RACEWAY RUNS INDICATED WITHIN THIS DRAWING PACKAGE ARE SHOWN DIAGRAMMICALLY AND ARE FOR CIRCUITING PURPOSES ONLY. ALL RUNS SHOWN SHOULD NOT SERVE IN ANY WAY AS AN ACTUAL ROUTING GUIDE FOR INSTALLATION OF RACEWAYS. EXACT INSTALL LOCATION SHALL BE FIELD DETERMINED.
- 22. ADDITIONAL JUNCTION BOXES NOT SHOWN MAY BE REQUIRED TO ACCOMMODATE PROPER RACEWAY INSTALLATIONS. IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO DETERMINE THE NECESSARY AMOUNT OF JUNCTION BOXES REQUIRED.
- 23. SUBMITTED DRAWING PACKAGE MUST BE REVIEWED BY COLLEGE REPRESENTATIVE AND ONE COPY OF THE REVIEWED DRAWING AND SUBMITTAL MUST BE RETURNED TO NOTIFIER BEFORE ANY EQUIPMENT IS SHIPPED OR INSTALLED. CUSTOM ANNUNICATORS WILL NOT BE FABRICATED UNTIL WRITTEN APPROVAL OF LAYOUT AND/OR ARTWORK IS RECEIVED.
- 24. NOTICE: DO NOT APPLY POWER TO CONTROL PANEL(S) UNTIL A FACTORY SERVICE TECHNICIAN HAS CHECKED THE SYSTEM INSTALLATIONS. UPON SATISFACTORY COMPLETION OF HIS INSPECTION, POWER WILL BE APPLIED TO THE CONTROL PANEL(S). THE MANUFACTURER ASSUMES NO LIABILITY FOR ANY DAMAGE TO THE EQUIPMENT SUPPLIED IF POWER IS APPLIED TO THE CONTROL PANEL(S) PRIOR TO INSPECTION OF THE INSTALLATION.
- 25. FOR INSPECTION AND OR TESTING THE FIRE MARSHAL SHALL BE NOTIFIED FOR SCHEDULING AN APPOINTMENT.
- 26. A CERTIFICATE OF COMPLIANCE SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE FIRE MARSHAL UPON COMPLETION OF THE INSTALLATION.
- 27. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD. THE STRICTER REQUIREMENT WILL PREVAIL.
- 28. A STAMPED SET OF APPROVED FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES SHALL BE APPROVED BY THE FIRE MARSHAL.
- 29. UPON COMPLETION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE FIRE MARSHAL.
- 30. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.

SHEET INDEX

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SHEET DESCRIPTION

FA001 GENERAL NOTES, LEGEND AND SCHEDULES

DEMOLITION AND RENOVATION FLOOR PLANS

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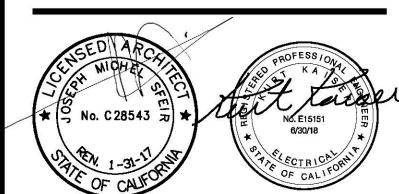
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> GENERAL NOTES, LEGEND AND SCHEDULES

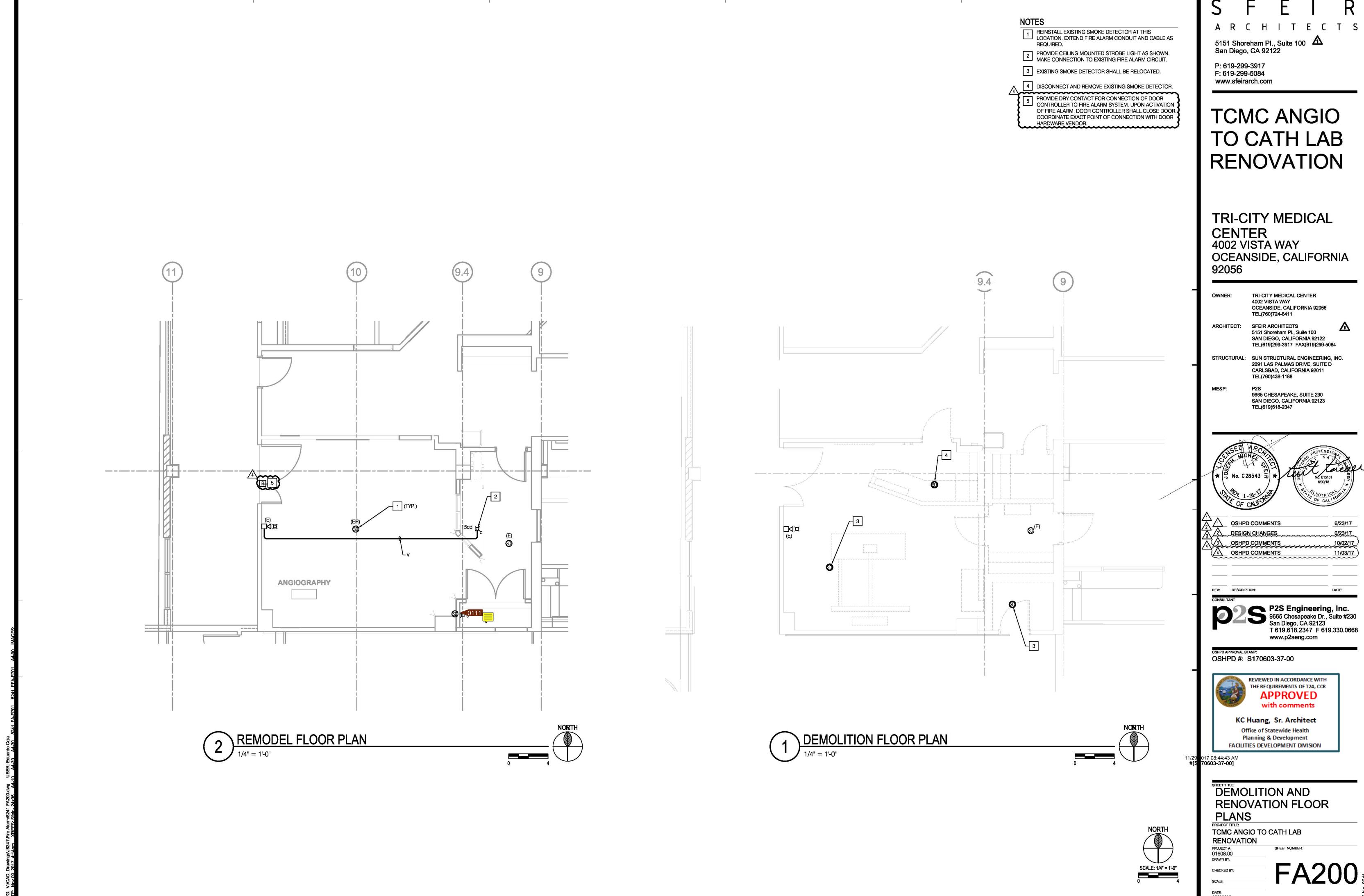
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