

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

100% CONSTRUCTION DOCUMENTS: 10/28/22

A HCAI COMMENTS: 1/19/23

BID SET: 2/6/23

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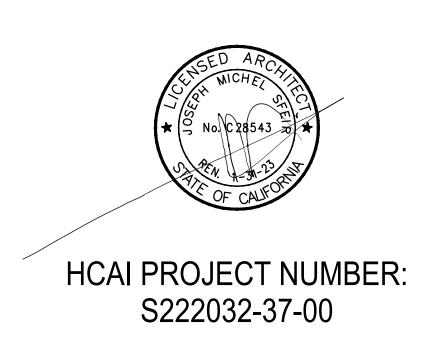
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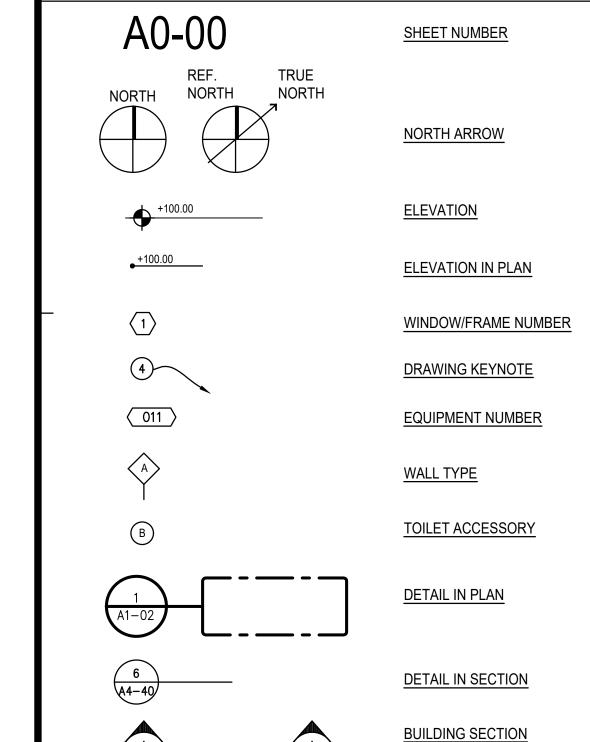
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ABBREVIATIONS ACT ACOUSTICAL CEILING TILE INSIDE DIAMETER INSULATION ABOVE FINISHED FLOOR INSUL ALUM INTERIOR ALUMINUM **ALTERNATE JANITOR** ACCESS PANEL LAM LAMINAT ARCH LLH LONG LEG HORIZONTAL ARCHITECT ROARD LONG LEG VERTICAL BLDG BUILDING LIGHT WEIGHT BLK'G **BLOCKING** MAXMAXIMUM MECH **MECHANICAL** BFAM MINIMUM ВОТТОМ MIN **MISCELLANEOUS CABINET** NOT IN CONTRACT CARPET CEM CEMENT NO / # NUMBER NOT TO SCALE CERAMIC T NTS NOT RATED CEILING CLEAR ON CENTER COUNTER OUTSIDE DIAMETER COLUMN OPENING CONSTR CONSTRUCTION **OPPOSITE** CONT CONTINUOUS PLATE /PROPERTY LINE CORR CORRIDOR PLASTIC LAMINATE DOUBLE **PLYWOOD** PLWD DEPARTMENT POL POLISHED DRINKING FOUNTAIN DIAMETER PRESSURE TREATED DIMENSION PTD PAINTED DISPENSER QUANTITY RADIUS DRAIN ROOF DRAIN **DETAIL** REF REFERENCE DWG **DRAWING** REINF REINFORCING DRAWER DWR EACH ROUGH OPENING EXPANSION JOIN RUB RURRER ELECTRICAL SOLID CORE ENCL ENCLOSURE SCHED SCHEDULE EQUAL SHOWER EACH WAY SHEET **EXISTING** SIMIL AR EXISTING TO REMAIN SHEET METAL SCREW EXTERIOR **SPECIFICATIONS** FLOOR DRAIN FIRE EXTINGUISHER CAB ST STL STAINLESS STEEL FIRE HOSE CABINET STD STOR STANDARD STORAGE FIXTURE FIXT FLOOR **STRUCT** STRUCTURI SUSP TELE SUSPENDED **FURRING** TELEPHONE FIELD VERIFY TEMPORARY GAUGE THICK GALV GALVANIZED TYP **TYPICAL** GRAB BAR UON/UNO UNLESS OTHERWISE NOTED GLASS VINYL COMPOSITE TILE GYPSUM VERT **VERTICAL** GWR GYPSUM WALL BOARD **VESTIBULE** HEADER WITH HDWD **HARDWOOD** WOOD HDWR **HARDWARE** WITHOU1 WEIGHT HORIZ **HORIZONTAI** INTERIM LIFE SAFETY MEASURES ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT PANIC HARDWARE AT EXITS SHALL BE PROVIDED AS REQUIRED BY CODE. PRIOR TO THE START OF WORK CONSULT WITH FIELD FIRE MARSHAL ON AN 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 DEFICIENCIES IN NORMAL LIFE SAFETY REQUIREMENTS DUE TO PROJECT ACTIVITIES AND

- SHALL MEET THE REQUIREMENTS OF HCAI CAN 9-3301. ENSURE THAT EXITS PROVIDE FREE AND UNOBSTRUCTED EGRESS. PERSONNEL SHALL
- /E TRAINING IF ALTERNATE EXITS MUST BE DESIGNATED. AREAS UNDEF CONSTRUCTION MUST MAINTAIN ESCAPE FACILITIES FOR CONSTRUCTION WORKERS AT ALL TIMES. MEANS OF EGRESS MUST BE INSPECTED DAILY. ENSURE THAT FIRE ALARM, DETECTION, & SUPPRESSION SYSTEMS ARE NOT IMPAIRED.
- ENSURE THAT TEMPORARY CONSTRUCTION PARTITIONS ARE SMOKE-TIGHT AND CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS.
- PROVIDE ADDITIONAL FIREFIGHTING EQUIPMENT AND TRAIN PERSONNEL IN ITS USE.

SYMBOL LEGEND



WALL SECTION

SEISMIC BRACING SEISMIC BRACING - SEE CBC 2019 CHAPTER 16A/ASCE 7-16, HVAC DUCTWORK, PLUMBING/

- PIPING, AND CONDUIT SYSTEMS. ALL PIPES, DUCTS, AND CONDUIT SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN 2019 CBC CHAPTER 16A/ASCE 7-16. DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH PROVISIONS CONTAINED IN PART 4, TITLE 24, CALIFORNIA MECHANICAL CODE. WHERE POSSIBLE, PIPES, CONDUIT, AND THEIR CONNECTIONS SHALL BE CONSTRUCTED OF DUCTILE MATERIALS (COPPER, DUCTILE IRON, STEEL OR ALUMINUM AND BRAZED, WELDED, OR SCREWED CONNECTIONS). PIPES, CONDUITS, AND THEIR CONNECTIONS, CONSTRUCTED OF NONDUCTILE MATERIALS (E.G., CAST IRON, NO-HUB PIPE, AND PLASTIC), SHALL HAVE THE BRACE SPACING REDUCED TO SATISFY REQUIREMENTS OF ASCE 7-16, CHAPTER 13 AND NOT
- SEISMIC SUPPORTS ARE NOT REQUIRED FOR HVAC DUCTWORK WITH I=1.0 IF EITHER OF THE FOLLOWING CONDITIONS IS MET FOR THE FULL LENGTH OF EACH DUCT RUN:

TO EXCEED ONE—HALF OF THE SPACING ALLOWED FOR DUCTILE MATERIALS.

- A. HVAC DUCTS ARE SUSPENDED FROM HANGERS 12 IN. (305 MM) OR LESS IN LENGTH. THE HANGERS SHALL BE DETAILED TO AVOID SIGNIFICANT BENDING OF THE HANGERS AND THEIR ATTACHMENTS; -OR-
- B. HVAC DUCTS HAVE A CROSS-SECTIONAL AREA OF LESS THAN 6 FT (0.557 M). HVAC DUCT SYSTEMS FABRICATED AND INSTALLED IN ACCORDANCE WITH STANDARDS APPROVED BY THE AUTHORITY HAVING JURISDICTION SHALL BE DEEMED TO MEET THE LATERAL BRACING REQUIREMENTS OF THIS SECTION.
- COMPONENTS THAT ARE INSTALLED IN-LINE WITH THE DUCT SYSTEM AND HAVE AN OPERATING WEIGHT GREATER THAN 75 LB SHALL BE SUPPORTED AND LATERALLY BRACED INDEPENDENT OF THE DUCT SYSTEM AND SUCH BRACES SHALL MEET THE REQUIREMENTS OF SEC 13.3.1. APPURTENANCES SHALL BE POSITIVELY ATTACHED WITH MECHANICAL FASTENERS. UNBRACED PIPING ATTACHED TO IN-LINE EQUIPMENT SHALL BE PROVIDED WITH FLEXIBILITY TO ACCOMMODATE DIFFERENTIAL DISPLACEMENTS
- PIPING SYSTEMS SHALL SATISFY THE REQUIREMENTS OF THIS SECTION EXCEPT THAT ELEVATOR SYSTEM PIPING SHALL SATISFY THE REQUIREMENTS OF ASCE 7-16 13.6.11.
- EXCEPT FOR PIPING DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH NFPA 13, SEISMIC SUPPORTS SHALL NOT BE REQUIRED FOR OTHER PIPING SYSTEMS WHERE ONE OF THE FOLLOWING CONDITIONS IS MET: PIPING IS SUPPORTED BY ROD HANGERS: HANGERS IN THE PIPE RUN ARE 12 IN. (305 MM)
- OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE; HANGÉRS ARE DETAILED TO AVOID BENDING OF THE HANGERS AND THEIR ATTACHMENTS; AND PROVISIONS ARE MADE FOR PIPING TO ACCOMMODATE EXPECTED DEFLECTIONS HIGH-DEFORMABILITY PIPING IS USED: PROVISIONS ARE MADE TO AVOID IMPACT WITH LARGER
- PIPING OR MECHANICAL COMPONENTS OR TO PROTECT THE PIPING IN THE EVENT OF SUCH IMPACT; AND THE FOLLOWING SIZE REQUIREMENTS ARE SATISFIED:
- A. FOR SEISMIC DESIGN CATEGORIES D, E, OR F WHERE ID IS GREATER THAN 1.0, THE NOMINAL PIPE SIZE SHALL BE 1 IN. (25 MM) OR LESS B. FOR SEISMIC DESIGN CATEGORY C, WHERE IP IS GREATER THAN 1.0, THE NOMINAL PIPE
- SIZE SHALL BE 2 IN. (51 MM) OR LESS. C. FOR SEISMIC DESIGN CATEGORIES D, E, OR F WHERE IP IS EQUAL TO 1.0, THE NOMINAL PIPE SIZE SHALL BE 3 IN. (76 MM) OR LESS.
- WHERE LATERAL RESTRAINTS ARE OMITTED, THE PIPING, DUCTS, OR CONDUIT SHALL BE INSTALLED SUCH THAT LATERAL MOTION OF THE PIPING OR DUCT WILL NOT CAUSE DAMAGING IMPACT WITH OTHER SYSTEMS OR STRUCTURAL MEMBERS, OR LOSS OF VERTICAL SUPPORT. 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.
- PIPES, DUCTS AND CONDUIT SUPPORTED BY A TRAPEZE WHERE NONE OF THOSE ELEMENTS WOULD INDIVIDUALLY BE BRACED NEED NOT BE BRACED IF CONNECTIONS TO THE PIPE/CONDUIT/DUCTWORK OR DIRECTIONAL CHANGES DO NOT RESTRICT THE MOVEMENT OF THE TRAPEZE. IF THIS FLEXIBILITY IS NOT PROVIDED, BRACING WILL BE REQUIRED WHEN THE AGGREGATE WEIGHT OF THE PIPES AND CONDUIT EXCEEDS 1D POUNDS/FT (146 N/m). THE WEIGHT SHALL BE DETERMINED ASSUMING ALL PIPES AND CONDUIT ARE FILLED WITH WATER. EQUIPMENT SUPPORTS AND ATTACHMENTS: SUPPORTS AND ATTACHMENTS OF ALL EQUIPMENT TO BE INSTALLED AS PART OF THIS PROJECT SHALL BE DETAILED ON CONSTRUCTION DOCUMENTS, EXCEPT THOSE EXEMPT BY THE 2019 CBC SECTION 1617A.1.18. EQUIPMENT
- SUPPORTS AND ATTACHMENTS SHALL BE APPROVED BY THE APPROPRIATE DESIGN PROFESSIONAL OF RECORD (RDP) AND HCAI AS PART OF FIELD REVIEWS/OBSERVATIONS. THE INSPECTOR OR RECORD (IOR) SHALL ASSURE THAT THE ABOVE REQUIREMENTS ARE ENFORCED REFERENCES: 2019 CBC SECTIONS 107 AND 1617A.

REFERENCES: 2019 CAC SECTIONS 7-115, 7-126, AND 2019 CBC SECTION 107.

A. LAYOUT DRAWINGS OF THE SUPPORTS AND BRACING SYSTEMS IN ACCORDANCE WITH THE

a. THE STRUCTURAL ENGINEER OF RECORD (SEOR) SHALL VERIFY THAT THE

PRE-APPROVAL SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL (RDP)

ARE IN CONFORMANCE WITH ALL CODE REQUIREMENTS. THE LAYOUT DRAWINGS SHALL AS A MINIMUM SATISFY THE REQUIREMENTS OF ASCE SECTION 13.6 AS MODIFIED BY THE

SUPPORTING STRUCTURE IS ADEQUATE FOR THE LOADS IMPOSED ON IT BY THE

b. THE SEOR SHALL FORWARD THE ANCHORAGE AND BRACING DRAWINGS (INCLUDING

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

B. THE SEOR SHALL DESIGN ANY SUPPLEMENTARY FRAMING THAT IS NEEDED TO RESIST

a. THE SUPPLEMENTARY FRAMING SHALL BE SUBMITTED TO HCAI AS A CHANGE

C. THE LAYOUT DRAWINGS (WITH THE SHOP DRAWING STAMP) SHALL BE SUBMITTED TO

b. SEISMIC DESIGN FORCES (FP) ARE IN ACCORDANCE WITH CBC 2019, AND

c. CERTIFY SUBMITTAL IS WITHIN THE SCOPE OF HCAI PRE-APPROVAL OF

 SIZE OF DISTRIBUTION SYSTEM COMPONENTS SPACING OF BRACING AND FLEX JOINTS, AND

MANUFACTURER'S CERTIFICATION (OPM):

SUBSTRATE FOR ATTACHMENTS

a. HCAI FIELD STAFF WILL REVIEW THE INSTALLATION.

FURNISH THE IOR WITH ONE COPY OF EACH.

REQUIRE HCAI REVIEW AND APPROVAL.

a. STRUCTURE SUPPORTING THE DISTRIBUTION SYSTEM HAS ADEQUATE CAPACITY.

D. THE LAYOUT DRAWINGS (W/ SHOP DRAWINGS STAMP) SHALL BE KEPT ON THE JOBSITE AND CAN THEN BE USED FOR INSTALLATION OF THE SUPPORT AND BRACING.

E. A COPY OF THE CHOSEN BRACING SYSTEM INSTALLATION GUIDE/OPM MANUAL SHALL BE

a. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF OPM AND

REFERENCES: 2019 CAC SECTIONS 7-115, 7-126, 7-153, AND 2019 CBC SECTION 107.

COMPONENTS OF TWO OR MORE PRE-APPROVED BRACING SYSTEMS SHALL NOT BE

a. ONLY ONE PRE-APPROVED BRACING SYSTEM MAY BE USED FOR A RUN OF PIPE,

b. ANY SUBSTITUTION OF COMPONENT OF A PRE-APPROVED BRACING SYSTEM SHALL

ON THE JOBSITE PRIOR TO STARTING THE INSTALLATION OF HANGERS AND/OR BRACES.

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

SUPPORTS AND BRACES INSTALLED IN ACCORDANCE WITH THE PRE-APPROVAL IN

APPROVED CHANGE ORDERS FOR SUPPLEMENTARY FRAMING WHERE REQUIRED) TO

THE DISCIPLINE IN RESPONSIBLE CHARGE WITH A NOTATION INDICATING THAT THE

DRAWINGS HAVE BEEN REVIEWED AND ARE IN GENERAL CONFORMANCE WITH THE

d. THE REGISTERED DESIGN PROFESSIONAL (OTHER THAN SEOR) MAY PROVIDE A SHOP DRAWING STAMP FOR SMALL PROJECTS AT THE DISCRETION OF THE DISTRICT

IN RESPONSIBLE CHARGE OF THE PROJECT FOR REVIEW TO VERIFY THAT THE DETAILS

TYPICAL PRE-APPROVED SYSTEMS INCLUDE THE FOLLOWING:

DOORS SHALL MEET THIS 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 NO DOOR KNOB OR SURFACE-MOUNTED SEISMICALLY RESTRAIN ALL SUSPENDED UTILITY SYSTEMS IN CONFORMANCE WITH HARDWARE. UNLATCHING OF ANY LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION. REQUIREMENTS OF THE 2019 CALIFORNIA BUILDING CODE, CHAPTER 16A/ASCE 7-16. AS THE

SIDE OF THE DOOR. (CBC SECTION 11B-404.2.10)

APPROACHING PEDESTRIAN WAYS.

POUNDS. (CBC SECTION 11B-404.2.9)

HCAI STRUCTURAL NOTES

SECTIONS 107 AND 1617A.

SECTION 1603A.1.9.

SUPPORTS AND ATTACHMENTS OF ALL EQUIPMENT TO BE INSTALLED AS A PART OF THIS

PROJECT SHALL BE DETAILED ON CONSTRUCTION DOCUMENTS, EXCEPT THOSE EXEMPTED

BY THE 2019 CBC SECTION 1617A.1.18. EQUIPMENT SUPPORTS AND ATTACHMENTS SHALL

AS A PART OF FIELD REVIEWS/OBSERVATIONS. THE INSPECTOR OF RECORD (IOR) SHALL

NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING

ASSURE THAT THE ABOVE REQUIREMENTS ARE ENFORCED. REFERENCE: 2019 CBC

WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING

PRESTRESSED CONCRETE (PRE- OR POST-TENSIONED) LOCATE THE PRESTRESSED

INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE

TENDONS BY USING A NON-DESTRUCTIVE METHOD PRÍOR TO INSTALLATION. EXERCISE

REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN. REFERENCE: 2019 CBC

WELDING PROCEDURES, AND WELDING PROCEDURE QUALIFICATION RECORDS (WPQR) FO

NON-PREQUALIFIED WELDING PROCEDURES SIGNED BY THE AUTHORIZED REPRESENTATIVE

REGISTERED DESIGN PROFESSIONAL. PROVIDE A WPS/WPQR FOR EACH WELD JOINT TYPE,

CLASSIFICATION AND BASE METAL MATERIAL ASTM/GRADE/ALLOY AND RECORDED ON

FORMS RECOMMENDED BY THE APPLICABLE AWS STANDARD. FOR DEMAND CRITICAL

SUBSTANTIATED TO MEET THE HEAT INPUT LIMITS IN AWS D1.8. THERE SHALL BE NO

RE-QUALIFICATION), EXCEPT WHERE THE RATIO BETWEEN VOLTS, CURRENT (AMPS) AND TRAVEL SPEED REMAINS THE SAME. REFERENCE: 2019 CBC SECTIONS 1704A AND 1705A.

SUBMISSION OF THE CONCRETE MIX DESIGNS USED IN THE PROJECT SHALL BE REQUIRED, WHICH WILL BE REVIEWED BY SPECIAL INSPECTOR. THE CONCRETE MIX DESIGNS SHALL BE REVIEWED AND ACCEPTED BY A REGISTERED DESIGN PROFESSIONAL. THE CONCRETE MIX

DESIGN SHALL INCLUDE THE TEST AGE FOR DEMONSTRATING COMPLIANCE WITH THE

IN ADDITION TO ALL LOCAL REQUIREMENTS AND THE AMERICANS WITH DISABILITIES ACT

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

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

HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34" AND 44"

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 HARDWARE. LOCKED EXIT DOORS

MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS

MINIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15

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

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

AND 5 POUNDS FOR INTERIOR 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

THE BOTTOM 10 INCHES OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHALL HAVE A

LATCHING AND LOCKING DOORS THAT ARE HAND-ACTIVATED AND WHICH ARE IN A

DESIGN STRENGTH (F'C). REFERENCE: 2019 CBC SECTIONS 1704A AND 1705A.

(ADA), ACCESSIBLE FEATURES SHALL COMPLY WITH THE STATE OF CALIFORNIA

ADMINISTRATIVE CODE OF REGULATIONS, BUILDING CODE, TITLE 24, PART 2.

TELEPHONES SERVING THE BUILDING MUST BE ACCESSIBLE TO THE DISABLED.

SHALL OPERATE AS ABOVE IN EGRESS DIRECTION. (CBC SECTION 11B-404.2.7)

REQUIREMENTS FOR ACCESSIBILITY

ALLOWED VARIATIONS IN THE WELDING PARAMETERS (AS PERMITTED FOR NO WPS

OF THE MANUFACTURER, FABRICATOR OR CONTRACTOR, WHICH WILL BE REVIEWED BY THE

SUBMISSION OF WELDING PROCEDURE SPECIFICATIONS (WPS) IS REQUIRED FOR ALL

SPECIAL INSPECTOR. THE WPS/WPQR SHALL BE REVIEWED AND ACCEPTED BY A

BACKING MATERIAL (FOR CJP WELDS), WELDING PROCESS, WELDING ELECTRODE

WELDS, CURRENT, VOLTAGE AND TRAVEL SPEED COMBINATIONS ARE TO BE

EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING

BE APPROVED BY THE APPROPRIATE REGISTERED DESIGN PROFESSIONAL (RDP) AND HCAI

- THERE SHALL BE A LEVEL AND CLEAR FLOOR OR LANDING ON EACH SIDE OF A DOOR. THE BASIS FOR THE RESTRAINT REQUIREMENTS. CALCULATE AND SUBMIT TOTAL DESIGN LATERAL 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 FORCE(S) SPECIFIC TO THE PROJECT PER HCAI REQUIREMENTS OF THE CBC AND ASCE 7-16 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 OPM-0043-13 MASON INDUSTRIES, INC. SEISMIC RESTRAINT GUIDELINES FOR SUSPENDED 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 THE SWING SHALL EXTEND 12 INCHES PAST THE STRIKE EDGE OF THE DOOR WHEN THE DOOR IS EQUIPPED WITH BOTH A CLOSER AND A LATCHSET
 - ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2". 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" MAY BE VERTICAL. WHEN CHANGES IN LEVELS GREATER THAN 1/2" ARE NECESSARY THEY SHALL COMPLY WITH THE REQUIREMENTS FOR RAMPS. MINIMUM WIDTH SHALL BE 48".
 - MOUNTING HEIGHTS: THE MAXIMUM HEIGHT FOR HIGH REACH SHALL BE 48 INCHES AND THE MINIMUM LOW REACH SHALL BE 15 INCHES ABOVE 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.
 - . ALL-GENDER SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK, 12" DIA., WITH A 1/4" THICK TRIANGLE SUPERIMPOSED IN THE CIRCLE GEOMETRIC (CIRCLE AND TRIANGLE) SYMBOLS SHALL BE CENTERED ON THE DOOR AT A

HEIGHT OF 60" ABOVE FINISHED FLOOR AND THEIR COLOR AND CONTRAST SHALL BE

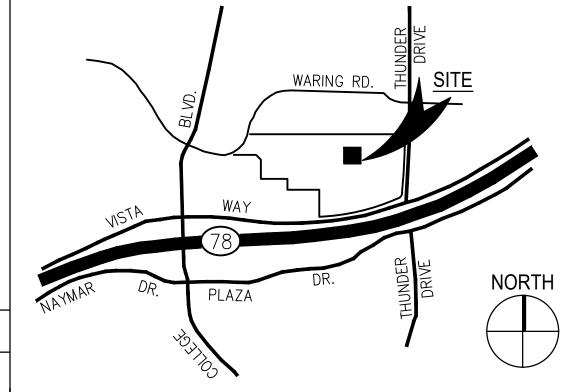
DISTINCTLY DIFFERENT FROM THE COLOR AND CONTRAST OF THE DOOR. ADDITIONAL SIGNAGE REQS: RAISED LETTERS SHALL BE PROVIDED AND ACCOMPANIED BY BRAILLE PER SECTION 11B-703. THEY SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH OUTSIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. SIGNS SHALL BE MOUNTED 48" MIN. A.F.F., 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

HCAI INTENT STATEMENT

OF RAISED CHARACTERS. CBC 11B-703.4.1

HE INTENT OF THE CONSTRUCTION DOCUMENTS IS TO RECONSTRUCT THE HOSPIT ℓ BUILDING IN ACCORDANCE WITH THE 2019 CBSC. SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS, WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE 2019 CBSC, AMENDED CONSTRUCTION DOCUMENTS (ACDs) DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY HCAI BEFORE PROCEEDING WITH THE WORK.

VICINITY MAP



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 STANDARDS.
- 5. DRAWINGS, THOUGH NOTED TO SCALE, ARE DIAGRAMMATICAL. DO NOT SCALE DRAWINGS.

6. 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 ASBUILT 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.
- 9. 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 AWARD AND, IF APPROPRIATE, A DEDUCTIVE CHANGE ORDER WILL BE ISSUED.
- 10. ALL PENETRATIONS THROUGH FIRE RESISTIVE PARTITION AND SLAB, INCLUDING, BUT NOT LIMITED TO, CONDUITS AND PIPING, EXISTING OR NEW, SHOWN IN THE CONSTRUCTION DOCUMENTS SHALL BE CONSTRUCTED TO MEET APPROVED U.L. SYSTEM.
- 1. 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 ASSEMBLY.
- 12.CONTRACTOR TO PREVENT GALVANIC ACTION AND OTHER FORMS OF CORROSION BY INSULATING METALS AND OTHER MATERIALS FROM DIRECT CONTACT WITH INCOMPATIBLE MATERIALS. THE GENERAL CONTRACTOR SHALL SEPARATE DISSIMILAR METALS WITH BUILDING PAPER OR PLASTIC SHIM.
- 13. 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.
- 14. 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 DRILLEDIN ANCHOR AND OR
- 15. THE CONTRACTOR SHALL COORDINATE ALL PHASING, ACCESS, DEBRIS, STAGING AREAS, AND HOURS OF CONSTRUCTION WITH OWNERS PRIOR TO START OF CONSTRUCTION.
- 16. CONTRACTOR TO PROVIDE REQUIRED DUST AND INFECTION CONTROL PROTECTION SYSTEM ABOVE AND BELOW CEILING TO ISOLATE THE CONSTRUCTION AREA WITH NEGATIVE PRESSURE. MEANS AND METHODS TO BE COORDINATED WITH OWNER.
- 7.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.
- 18.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.
- 19. THE GENERAL CONTRACTOR SHALL X-RAY AND/OR ULTRASOUND THE EXISTING CONCRETE FLOORS. WALLS 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.
- 20. CONTRACTOR STAGING TO BE IN THE ROOMS UNDER REMODEL.
- 21.CONTRACTOR PARKING TO BE IN CONTRACTOR DESIGNATED PARKING AREA.
- 22. THE CONTRACTOR SHALL ENSURE THAT THE AREA UNDER REMODEL IS LOCKED AND OTHERWISE SECURED AFTER HOURS.
- 23.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.
- 24.CONTRACTOR TO INCLUDE AN ALLOWANCE TO FURNISH AND APPLY CRETESEAL 2000 CONCRETE SEALER OR APPROVED EQUAL ON SLAB ON GRADE. ·//·/

26.THROUGH-PENETRATIONS AND MEMBRANE PENETRATIONS SHALL BE PROTECTED BY AN

- APPROVED PENETRATION FIRESTOP SYSTEM OR MEMBRANE PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER OR AS OTHERWISE PERMITTED BY 2019 CBC, SECTION 714. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS AND MEMBRANE PENETRATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION DETAILS FOR LISTED SYSTEMS. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS. MEMBRANE PENETRATION PROTECTION AND OTHER PERMITTED MEANS AND METHODS OF PENETRATION PROTECTION SHALL BE SUBMITTED TO HCAI/OSHPD FIELD FIRE MARSHAL FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION PER 2019 CBC, SECTIONS 107.2.1 AND 714.
- 27.INTERIOR FINISHES TO COMPLY WITH CBC CHAPTER 8.

APPLICABLE CODES AND REGULATIONS

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

CALIFORNIA BUILDING CODE (CBC) (PART 2, TITLE 24, CCR)

BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC) 2019 CALIFORNIA ELECTRICAL CODE (CEC) (PART 3, TITLE 24, CCR)

2019

2019 CALIFORNIA MECHANICAL CODE (CMC) (PART 4, TITLE 24, CCR)

BASED ON THE 2017 NATIONAL ELECTRICAL CODE (NEC)

- BASED ON THE 2018 UNIFORM MECHANICAL CODE (UMC) 2019 CALIFORNIA PLUMBING CODE (CPC) (PART 5, TITLE 24, CCR)
- BASED ON THE 2018 UNIFORM PLUMBING CODE (UPC) CALIFORNIA FIRE CODE (CFC) (PART 9, TITLE 24, CCR)

BASED ON THE 2018 INTERNATIONAL FIRE CODE (IFC)

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- A4-10 FIRST FLOOR PLAN PLAN PHASE 1 & PHASE 2 A4-20 FIRST FLOOR DEMO RCP. PHASE
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- ED201 DEMOLITION FLOOR PLAN

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- PD201 DEMOLITION FLOOR PLAN
- P601 DETAILS

- POO1 GENERAL NOTES, LEGEND AND SHEET INDEX
- P003 SPECIFICATIONS

Nd. 028543

HCAI COMMENTS 1/19/23

HCAI APPROVAL STAMP:

TCMC DECONTAMINATION SINK

01666.00

AS SHOWN 10/28/22

100% CONSTRUCTION DOCUMENTS

NONE

DUCT, OR CONDUIT.

DEFERRED APPROVALS

SECTION 13.5.6.

DISTRIBUTION SYSTEMS.

2019 CBC SECTION 1617A.

PRE-APPROVED PIPES, DUCTS, AND CONDUITS BRACING

ADDITION TO ALL OTHER LOADS.

STRUCTURAL ENGINEER.

PRE-APPROVED SYSTEM.

HCAL TO REVIEW:

PRE-APPROVAL AND THE DESIGN OF THE PROJECT

PROJECT PREVIOUSLY APPROVED AS PROJECT NUMBER S192337-37-00, ATTACHED AS A

<u>PHASE ONE</u> CONSTRUCT NEW WALL NEXT TO EXSTING WALL. INSTALL ELECTRICAL, WATER,

INSTALL NEW DECONTAMINATION SINK WITH FAUCETS, RO WATER OUTLET, AND

FINISH NÉW WALL. INSTALL ÉLÉCTRICAL, WATER, AND DRAIN FOR EXISTING SONIC CLEANER AND FUTURE NEW SONIC CLEANER.

REPLACE EXISTING CORRODED 2" WASTE LINE WITH NEW 2" WASTE LINE.

REFERENCE PLAN TO THIS HCAI SUBMITTAL. SEE 'REF S192337-37-00'.

DŖAIN, AND COMPRESSĘD AIR LINĘS FOR NEW SINK.

PROTECT WALL WITH ACROVYN WALL PROTECTION.

PROJECT INFORMATION

COMPRESSED AIR. ANCHOR TO FLOOR.

HCAI BLD-01143: CENTER TOWER BLDG 01

BLDG CONSTRUCTION YEAR: 1960

CONSTRUCTION CLASSIFICATION:

DECONTAMINATION ROOM 722 SQFT

PATCH FLOOR, CEILING, AND WALL FINISHES.

PATCH FLOOR, CEILING, AND WALL FINISHES

NUMBER OF STORIES: 3 STORIES + BASEMENT 1

OCCUPANCY GROUP: I-2 (NO CHANGE IN OCCUPANCY LOAD)

REINSTALL EXISTING SONIC CLEANER. ANCHOR TO FLOOR.

TYPE OF CONSTRUCTION: I-A, FULLY SPRINKLERED IN AREA OF WORK

SCOPE OF WORK:

BUILDING DESCRIPTION:

SEISMIC ZONE 4

2-HR ROOF

2-HR FLOOR/CEILING

AREA OF REMODEL

2-HR SHAFT ENCLOSURE

3-HR STRUCTURAL FRAME

OCEANSIDE, CALIFORNIA 92056 SFEIR ARCHITECTS 5151 SHOREHAM PLACE, SUITE 265 SAN DIEGO, CALIFORNIA 92122

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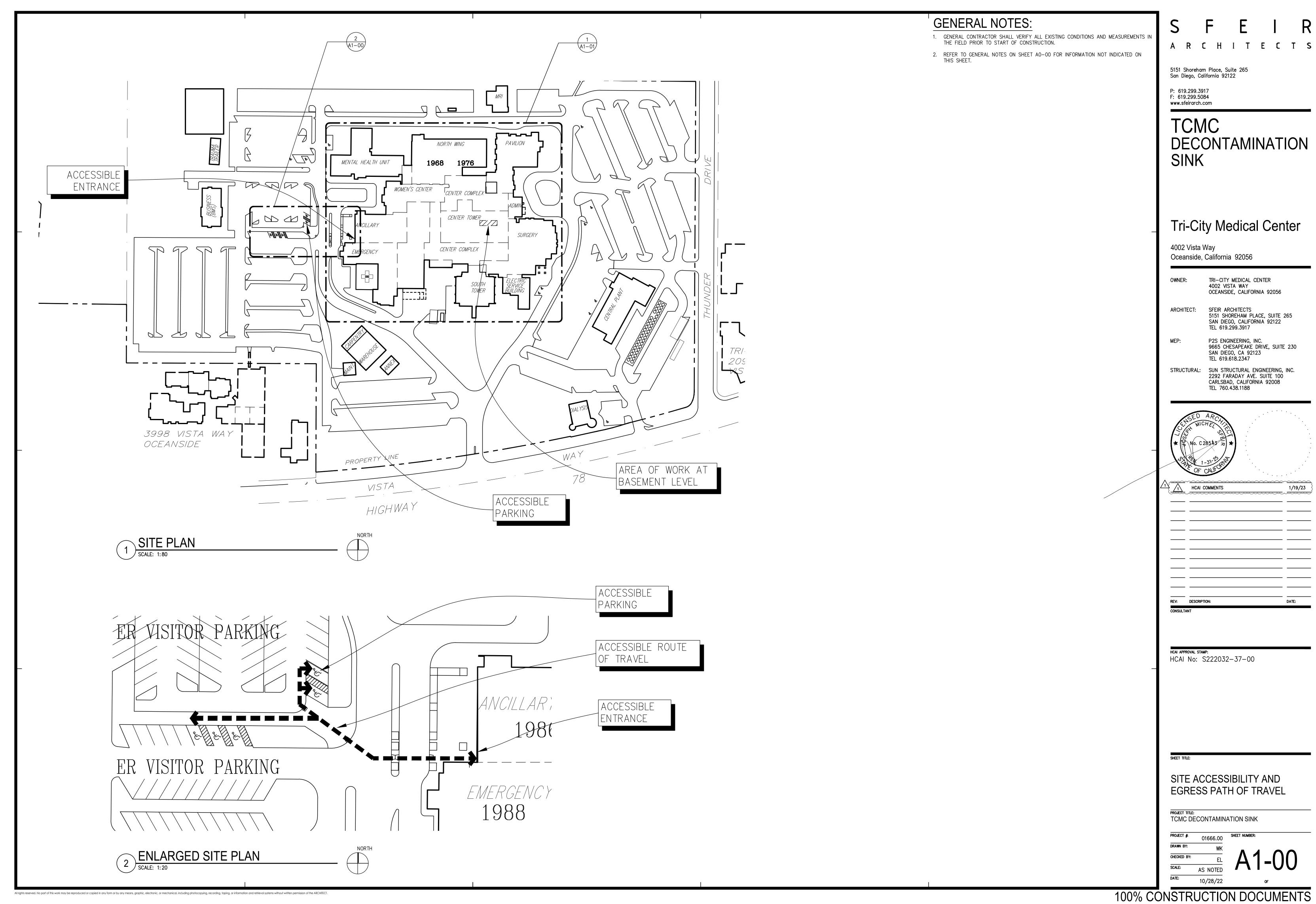
TEL 760.438.1188

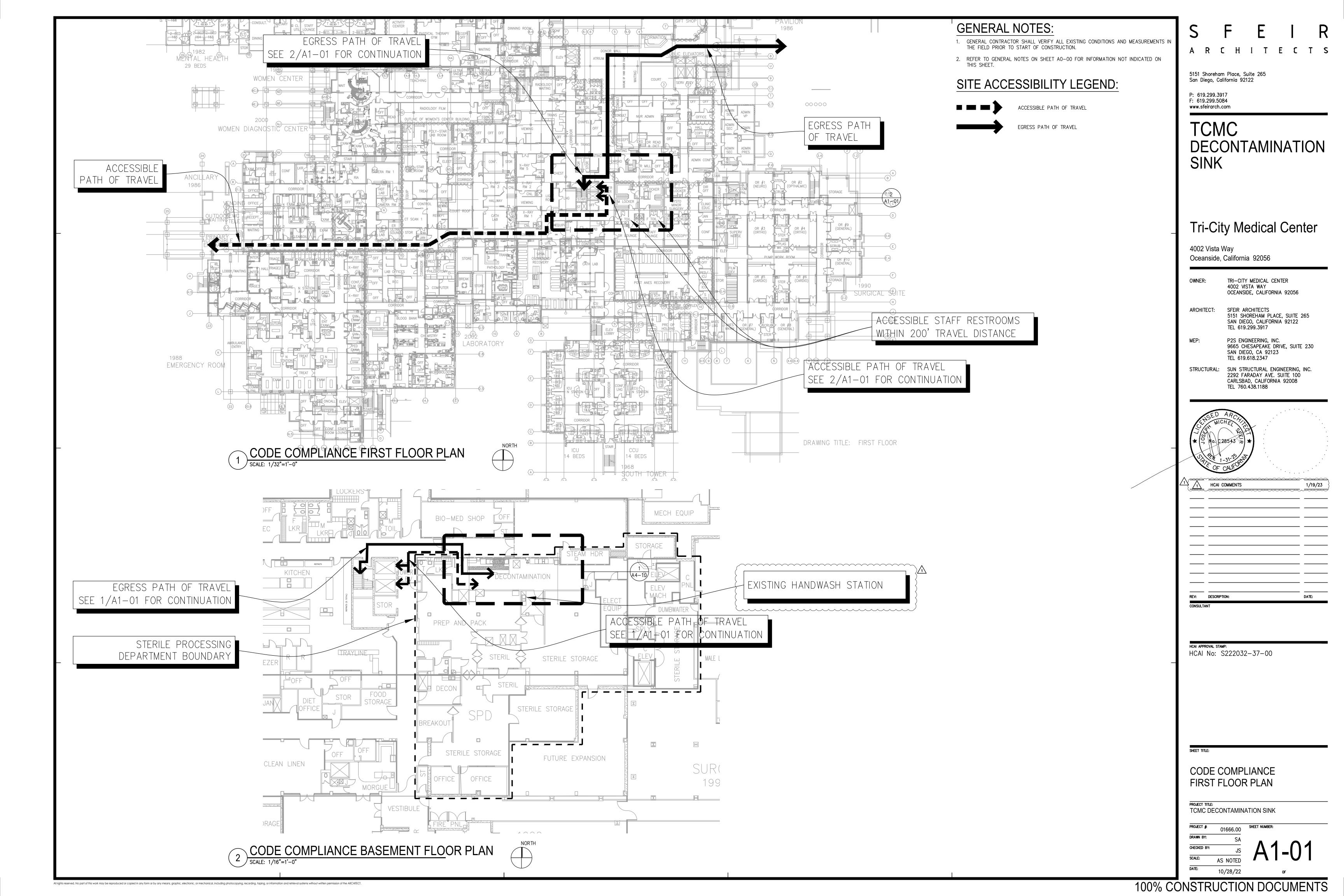
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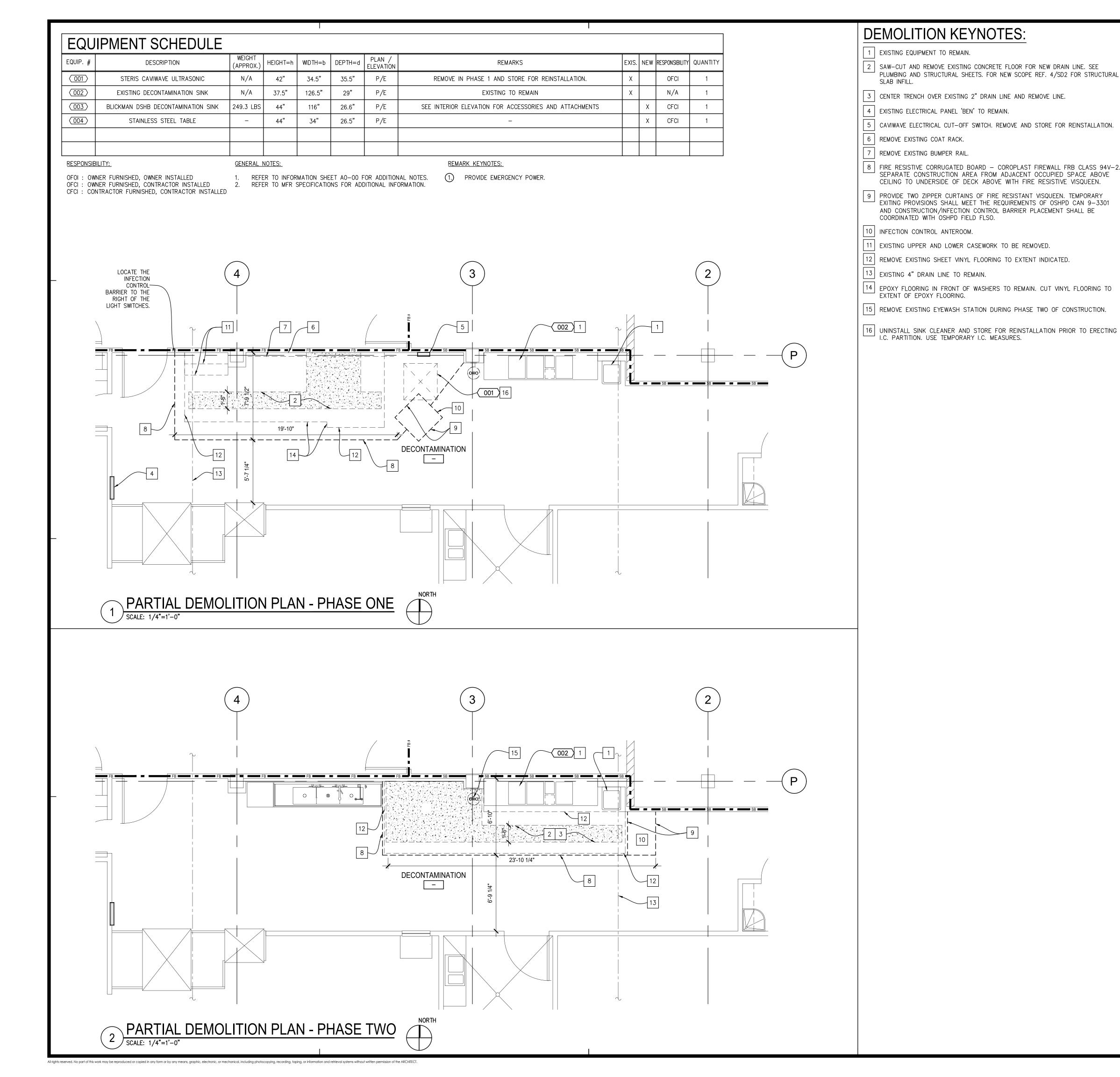
REV: DESCRIPTION:

CONSULTANT

PROJECT INFORMATION







GENERAL NOTES:

- GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS II
- THE FIELD PRIOR TO START OF CONSTRUCTION.
- REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

DEMOLITION PLAN GENERAL NOTES:

- GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS I THE FIELD PRIOR TO START OF CONSTRUCTION.
- GENERAL CONTRACTOR SHALL COORDINATE PHASING, ACCESS, DEBRIS REMOVAL, STAGING AREAS, AND HOURS OF CONSTRUCTION WITH OWNER PRIOR TO START OF
- UNLESS OTHERWISE NOTED, CONTRACTOR SHALL COORDINATE WITH THE OWNER THE REMOVAL OF EXISTING EQUIPMENT INDICATED ON DRAWINGS.
- 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.
- DASHED LINES INDICATE ITEMS TO BE DEMOLISHED OR REMOVED. REFER TO RELATED PLANS, INCLUDING THE FLOOR PLANS, EQUIPMENT PLAN, CEILING PLANS, AND ROOM FINISH SCHEDULE ALONG WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION FOR PORTIONS OF EXISTING CONSTRUCTION SCHEDULED TO REMAIN.
- REFER TO PROPOSED PLANS AND INTERIOR ELEVATIONS FOR LOCATION OF NEW WALL CONNECTIONS, OPENINGS, RECESSED ITEMS, BACKING PLATES, ETC. AT EXISTING WALLS. REMOVE GYPSUM BOARD WHERE NEEDED TO ACCOMMODATE THE ABOVE WORK.
- GENERAL CONTRACTOR SHALL X-RAY AND/OR ULTRASOUND THE EXISTING CONCRETE FLOORS AND FLOOR ABOVE FOR ANY POSSIBLE EMBEDDED CONDUITS, STRUCTURAL REBAR, OR UNFORESEEN CONDITIONS OUTSIDE THE SCOPE OF WORK THAT MIGHT IMPEDE THE ANCHORING OF EQUIPMENT OR CONFLICT WITH TRENCHING PRIOR TO
- TYPICALLY CAP AND CLOSE ALL ABANDONED OPENINGS AT EXISTING SLAB. FILL AND PATCH TO LEVEL FLOOR PER DETAILS ON STRUCTURAL SHEETS. NOTIFY ARCHITECT OF UNCOVERED EXISTING CONDITIONS.
- GENERAL CONTRACTOR SHALL INSTALL A TEMPORARY DUST/INFECTION CONTROL BARRIER BETWEEN WORK AREA AND ALL ADJACENT ROOMS AND CORRIDORS. INSTALL TEMPORARY CURTAIN OF FIRE-RETARDANT VISQUEEN IN THE PLENUM BETWEEN TOP O STUD PARTITION AND UNDERSIDE OF DECK ABOVE. SEAL ALL OPENINGS INCL. DOORS, AIR SUPPLIES, RETURNS, AND EXHAUST GRILLES. GENERAL CONTRACTOR SHALL PROVIDE A TEMPORARY HEPA FILTRATION SYSTEM WITH NEGATIVE PRESSURE FOR EACH AREA OF THE REMODEL. EXHAUST FILTERED AIR FROM ROOMS UNDER CONSTRUCTION THROUGH BUILDING AIR RETURN SYSTEM. GENERAL CONTRACTOR TO COORDINATE BARRIER TYPE, ACCESS, AND FILTRATION SYSTEM WITH OWNER.
- TEMPORARY CONSTRUCTION BARRIERS ARE REQUIRED TO BE INSTALLED DURING 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.
- CONTRACTOR STAGING TO BE IN THE ROOMS UNDER REMODEL.
- CONTRACTOR PARKING TO BE IN CONTRACTOR DESIGNATED PARKING AREA.
- M. THE CONTRACTOR SHALL ENSURE THAT THE AREA UNDER REMODEL IS LOCKED AND OTHERWISE SECURED AFTER HOURS.
- N. DRILLING AND RAM-SETTING TO BE DONE AFTER HOURS.
- GENERAL CONTRACTOR SHALL PRESERVE AND PROTECT THE PORTIONS OF THE EXISTING OVERHEAD PAGING, TELEPHONE, DATA, ELECTRICAL LINES, ETC. DURING THE COURSE OF CONSTRUCTION. MANY OF THESE SYSTEMS ARE SCHEDULED FOR REUSE BY THE OWNER UNDER THIS OR SEPARATE CONTRACTS.
- PATCH NEW WORK TO MATCH AND ALIGN WITH EXISTING. COMPLETELY REMOVE EXISTING-FINISHES WHERE NEW FINISHES ARE SCHEDULED.
- Q. CONTRACTOR SHALL PRESERVE AND PROTECT THE EXISTING AREA, EQUIPMENT, CABINETRY, ETC. ADJACENT TO THE AREA OF WORK.

PARTITION LEGEND:

- _____ EXISTING MEMBRANE OF PARTITION OR PARTITION TO BE REMOVED. REFER TO DEMOLITION PLAN FOR FURTHER REQUIREMENTS.
 - EXISTING PARTITION TO REMAIN. REFER TO PLAN FOR UPGRADE

■ SB ■ ■ SB■ EXISTING 1-HR SMOKE BARRIER. EXISTING 1-HR RATED FIRE BARRIER TO REMAIN. ALL NEW AND

MODIFIED PÉNÉTRATIONS SHALL BE PROTECTED WITH A U.L. LISTED FIRESTOP SYSTEM. ■ SB ■ ■ SB ■ NEW 1-HR SMOKE BARRIER.

FB FB NEW 1—HR RATED FIRE BARRIER EXTENDING TO THE UNDERSIDE OF THE STRUCTURE ABOVE. ALL PENETRATIONS SHALL BE

THICK LINE INDICATES NEW SURFACE FINISH.

PROTECTED WITH A U.L. LISTED FIRESTOP SYSTEM.

WALL TYPE A - REFER TO DETAILS ON A4-40.

- ALL DIMENSIONS SHOWN ARE TO FINISHED FACE OF GYP. BD., TYP. U.O.N. REFER TO SHEET A5-00 FOR GENERAL NOTES AND REQ'S FOR PARTITIONS.
- EXISTING WALLS 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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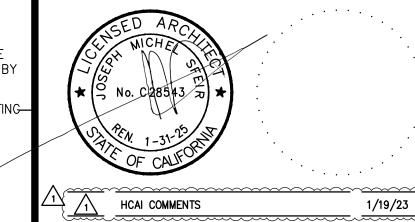
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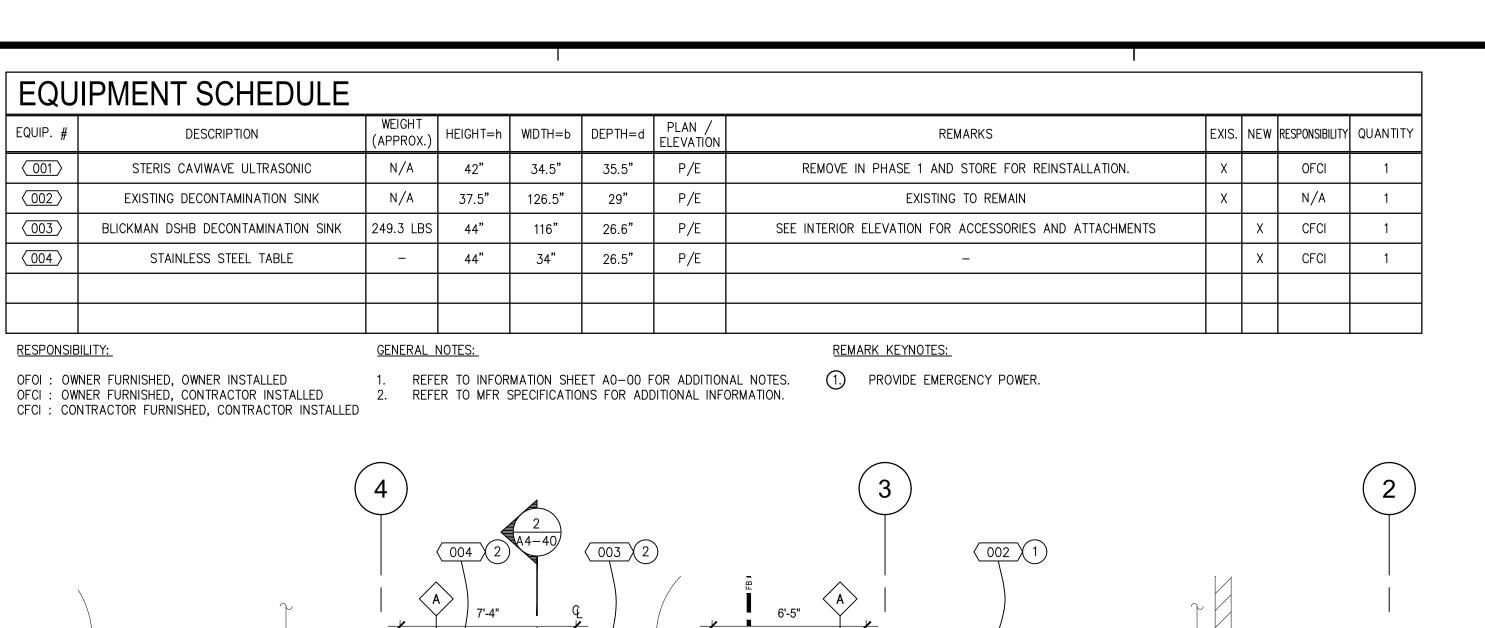
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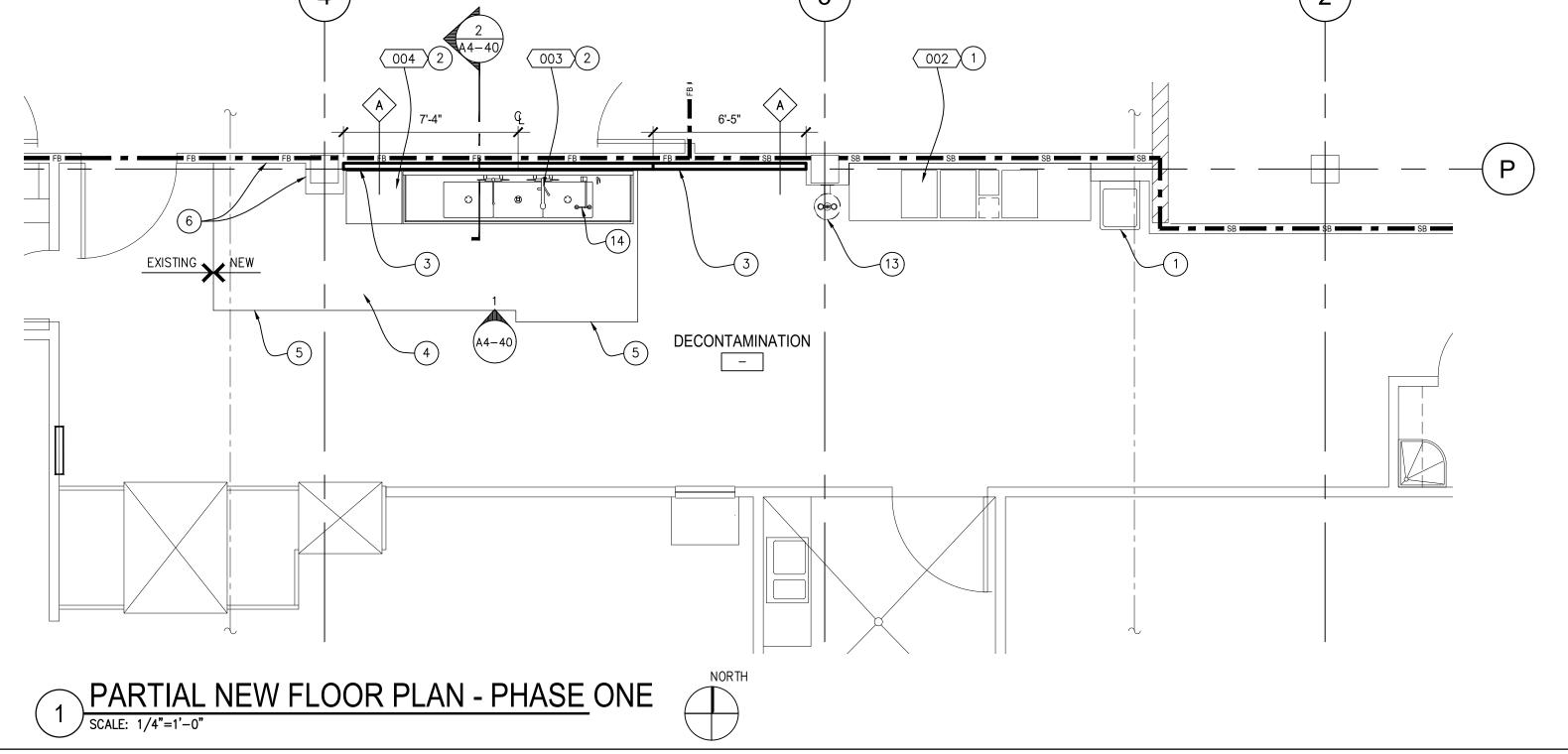
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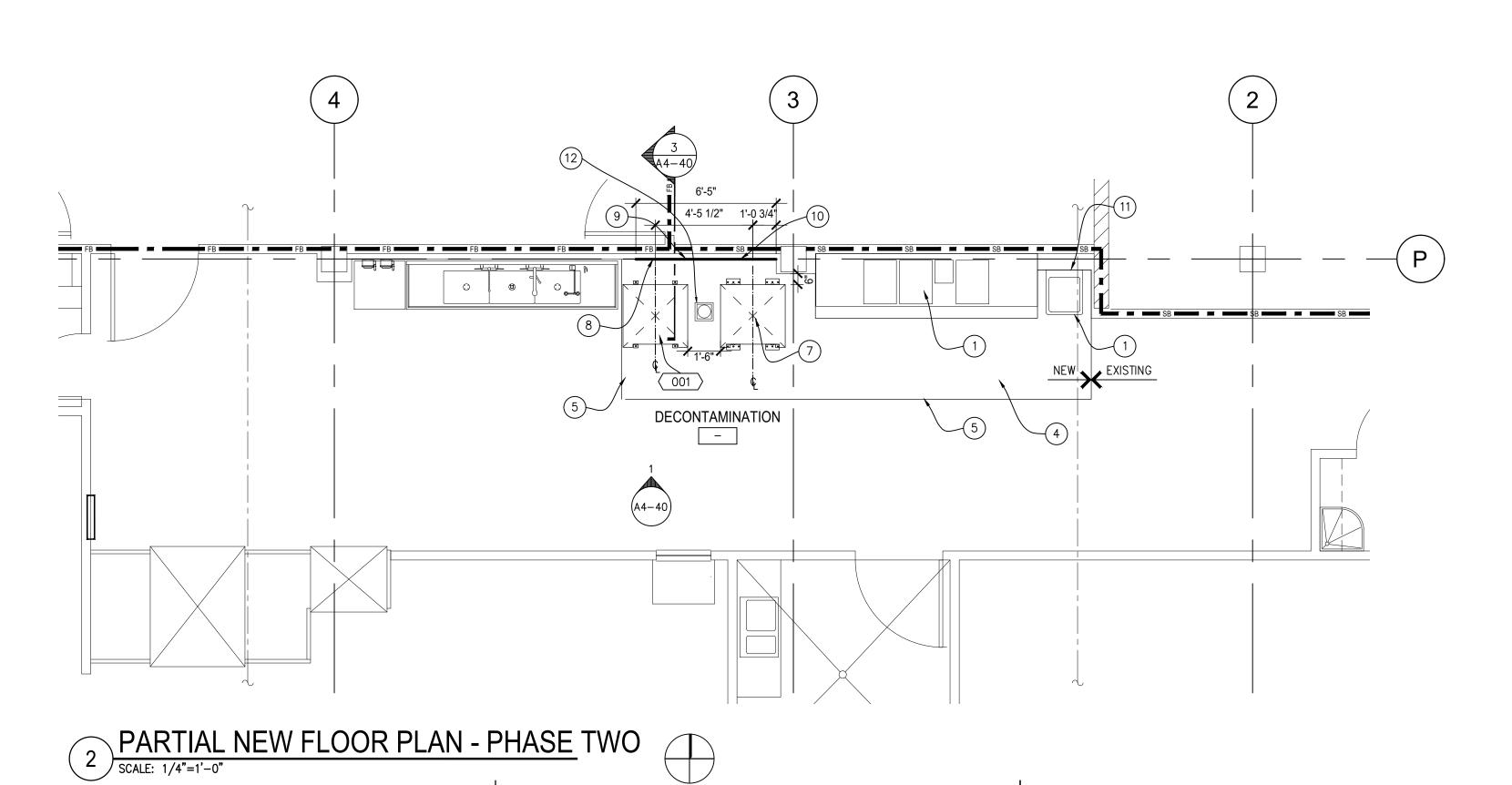
DEMOLITION FLOOR PLAN PHASE 1 & 2

TCMC DECONTAMINATION SINK

AS NOTED







FLOOR PLAN KEYNOTES:

- (1) EXISTING TO REMAIN.
- $(\ 2\)$ ANCHOR TO SLAB PER ARCHITECTURAL DETAILS AND STRUCTURAL DRAWINGS.
- (3) NEW FURR WALL. 2-1/2" STEEL STUDS TO UNDERSIDE OF STRUCTURE ABOVE W/ 5/8" GYP. BOARD UP TO GYP. CEILING. PRIME AND PAINT. DO NOT INSTALL GYP. BD. ON LAST 6'-5" OF THE WALL TO THE EAST - TO BE COMPLETED IN PHASE 2.
- (4) NEW CONCRETE FLOOR SLAB AT DRAIN TRENCH (NOT SHOWN). SEE DEMO PLAN AND STRUCTURAL DRAWINGS.
- (5) LINE OF NEW EPOXY FLOOR FINISH. TO MATCH EXISTING EPOXY FLOORING, KRETUS TOP SHELF EPOXY OR EQUAL, COLOR: BEIGE NEW FLOORING TO COMPLY WITH ASTM STANDAŘD E648, AND HAVING A SPECIFIC OPTICAL DENSITY SMOKE RATING NOT TO EXCEED 450 PER ASTM E662. CLASS 1 OR 2 PER CBC 804.4.2 AND EXCEPTION.
- (6) PATCH, PRIME, AND PAINT WALL FINISH (PATCH PLASTER PER CBC TABLE 721.1(2),)
- 7) FUTURE PROPOSED STERIS CAVIS ULTRASONIC CLEANER. SEE STRUCTURAL, PLUMBING, AND ELECTRICAL SHEETS FOR INSTALLATION INFORMATION.
- (8) INSTALL LAST 6'-5" OF GYP. BD. AFTER COMPLETING UTILITY CONNECTIONS. PRIME AND PAINT.
- (9) REINSTALL ELECTRICAL CUTOFF SWITCH.
- (10) INSTALL NEW ELECTRICAL CUTOFF SWITCH.
- (11) PATCH, PRIME, PAINT, THE PLASTER WALL BELOW SINK. MATCH COLOR OF EXISTING
- (12) NEW FLOOR SINK CENTERED BETWEEN THE TWO SONIC WASHERS.
- EXISTING EYE WASH TO REMAIN DURING PHASE ONE CONSTRUCTION. REMOVE DURING PHASE TWO CONSTRUCTION.
- NEW SINK MOUNTED EYE WASH TO BE INSTALLED. MADE READILY AVAILABLE DURING PHASE TWO CONSTRUCTION.

GENERAL NOTES:

- GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS II THE FIELD PRIOR TO START OF CONSTRUCTION.
- REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

FLOOR PLAN GENERAL NOTES:

- GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS II THE FIELD PRIOR TO START OF CONSTRUCTION.
- GENERAL CONTRACTOR SHALL COORDINATE PHASING, ACCESS, DEBRIS REMOVAL, STAGING AREAS, AND HOURS OF CONSTRUCTION WITH OWNER PRIOR TO START OF
- 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.
- 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.
- GENERAL CONTRACTOR SHALL SEPARATE DISSIMILAR METALS WITH BUILDING PAPER OR PLASTIC SHIM.
- GENERAL CONTRACTOR SHALL X-RAY AND/OR ULTRASOUND THE EXISTING CONCRETE FLOORS AND FLOOR ABOVE FOR ANY POSSIBLE EMBEDDED CONDUITS, STRUCTURAL REBAR, OR UNFORESEEN CONDITIONS OUTSIDE THE SCOPE OF WORK THAT MIGHT IMPEDE THE ANCHORING OF EQUIPMENT OR CONFLICT WITH TRENCHING PRIOR TO CONSTRUCTION.
- 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.
- 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.
- GENERAL CONTRACTOR SHALL INSTALL A TEMPORARY DUST/INFECTION CONTROL BARRIER BETWEEN WORK AREA AND ALL ADJACENT ROOMS AND CORRIDORS. INSTALL TEMPORARY CURTAIN OF FIRE-RETARDANT VISQUEEN IN THE PLENUM BETWEEN TOP OF STUD PARTITION AND UNDERSIDE OF DECK ABOVE. SEAL ALL OPENINGS INCLUDING DOORS, AIR SUPPLIES, RETURNS, AND EXHAUST GRILLES. GENERAL CONTRACTOR SHALL PROVIDE A TEMPORARY HEPA FILTRATION SYSTEM WITH NEGATIVE PRESSURE FOR EACH AREA OF THE REMODEL. EXHAUST FILTERED AIR FROM ROOMS UNDER CONSTRUCTION THROUGH BUILDING AIR RETURN SYSTEM. GENERAL CONTRACTOR TO COORDINATE BARRIER TYPE, ACCESS, AND FILTRATION SYSTEM WITH OWNER.
- O. TEMPORARY CONSTRUCTION BARRIERS ARE REQUIRED TO BE INSTALLED DURING 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.
- 1. CONTRACTOR STAGING TO BE IN THE ROOMS UNDER REMODEL.
- 12. CONTRACTOR PARKING TO BE IN CONTRACTOR DESIGNATED PARKING AREA.
- 13. THE CONTRACTOR SHALL ENSURE THAT THE AREA UNDER REMODEL IS LOCKED AND OTHERWISE SECURED AFTER HOURS.
- 14. VERIFY ALL DIMENSIONS WITH EQUIPMENT SCHEDULE PRIOR TO START OF
- 15. FOR DOOR INFORMATION REFER TO DOOR SCHEDULE, SHEET A6-00.
- 16. FOR ACCESSIBILITY REQUIREMENTS REFER TO SHEET A1-03.
- 17. PROVIDE ACOUSTICAL INSULATION IN ALL NEW WALL ASSEMBLIES.

PARTITION LEGEND:

- ____ EXISTING MEMBRANE OF PARTITION OR PARTITION TO BE REMOVED. REFER TO DEMOLITION PLAN FOR FURTHER REQUIREMENTS.
 - EXISTING PARTITION TO REMAIN. REFER TO PLAN FOR UPGRADE

SB SB SMOKE BARRIER.

■ FB ■■■ ■ FB ■ EXISTING 1—HR_RATED FIRE BARRIER TO REMAIN. ALL(NEW ÅND) (MODIFIED PENETRATIONS) SHALL BE PROTECTED WITH A U.L. LISTED FIRESTOP SYSTEM.

SB NEW 1-HR SMOKE BARRIER.

FB - P FB NEW 1-HR RATED FIRE BARRIER EXTENDING TO THE UNDERSIDE OF THE STRUCTURE ABOVE. ALL PENETRATIONS SHALL BE PROTECTED WITH A U.L. LISTED FIRESTOP SYSTEM.

COMPONENTS WHICH REQUIRE THE WIDTH OF WALL TO BE SET.

WALL TYPE A - REFER TO DETAILS ON A4-40.

<u>PARTITION NOTES:</u>

ALL DIMENSIONS SHOWN ARE TO FINISHED FACE OF GYP. BD., TYP. U.O.N. REFER TO SHEET A5-00 FOR GENERAL NOTES AND REQ'S FOR PARTITIONS.

THICK LINE INDICATES NEW SURFACE FINISH.

EXISTING WALLS WERE CONSTRUCTED WITH MANY PERMITS AND/OR CONTRACTS. FIELD-VERIFY CONSTRUCTION AND WIDTH PRIOR TO FABRICATION OF DOOR FRAMES OR

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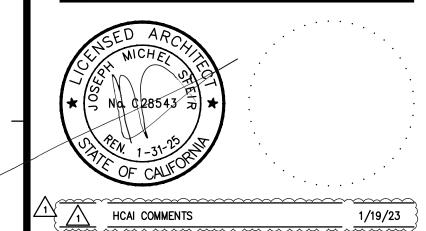
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PARTIAL FLOOR PLANS PHASE 1 & 2

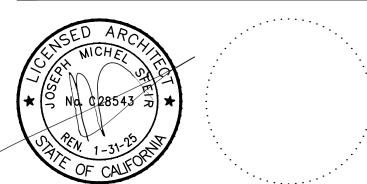
TCMC DECONTAMINATION SINK

AS NOTED

DEMOLITION RCP KEYNOTES: GENERAL NOTES: 1. GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN 1 INFECTION CONTROL BARRIER - SEE DEMO FLOOR PLAN. THE FIELD PRIOR TO START OF CONSTRUCTION. 2 REMOVE EXISTING GYP. BD. ABOVE TO INSTALL NEW FURR WALL. 2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET. 3 REMOVE UPPER CABINET. PRESERVE GYP. BD. CEILING. 5151 Shoreham Place, Suite 265 4 ACCESS PANEL AND HVAC DIFFUSER TO REMAIN. CUT GYP. BD. AROUND ELEMENTS San Diego, California 92122 RCP DEMOLITION GENERAL NOTES: AND PROTECT IN PLACE. P: 619.299.3917 5 ANGLE TOP CORNER OF INFECTION CONTROL BARRIER TO AVOID HVAC, SPRINKLER, A. GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS II F: 619.299.5084 AND SMOKE DETECTOR. THE FIELD PRIOR TO START OF CONSTRUCTION. www.sfeirarch.com GENERAL CONTRACTOR SHALL COORDINATE PHASING, ACCESS, DEBRIS REMOVAL, 6 REMOVE EXISTING LIGHTS TEMPORARILY TO ALLOW FOR PLUMBING AND ELECTRICAL STAGING AREAS, AND HOURS OF CONSTRUCTION WITH OWNER PRIOR TO START OF WORK ABOVE CEILING. TCMC C. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL COORDINATE WITH THE OWNER THE REMOVAL OF EXISTING EQUIPMENT INDICATED ON DRAWINGS. D. GENERAL CONTRACTOR SHALL COORDINATE WITH STRUCTURAL, MEP, FIRE ALARM, FIRE PROTECTION, NURSE CALL, INTERIORS, AND EQUIPMENT DRAWINGS PRIOR TO STARTING SINK CONSTRUCTION. THE PROJECT MANUAL AND ALL DRAWINGS IN THE CONSTRUCTION DRAWINGS SHALL BE PART OF THE CONSTRUCTION DOCUMENTS. DASHED LINES INDICATE ITEMS TO BE DEMOLISHED OR REMOVED. REFER TO RELATED PLANS, INCLUDING THE FLOOR PLANS, EQUIPMENT PLAN, CEILING PLANS, AND ROOM FINISH SCHEDULE ALONG WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION FOR PORTIONS OF EXISTING CONSTRUCTION SCHEDULED TO REMAIN. F. REFER TO PROPOSED PLANS AND INTERIOR ELEVATIONS FOR LOCATION OF NEW WALL CONNECTIONS, OPENINGS, RECESSED ITEMS, BACKING PLATES, ETC. AT EXISTING WALLS. REMOVE GYPSUM BOARD WHERE NEEDED TO ACCOMMODATE THE ABOVE WORK. Tri-City Medical Center G. GENERAL CONTRACTOR SHALL X-RAY AND/OR ULTRASOUND THE EXISTING CONCRETE FLOORS AND FLOOR ABOVE FOR ANY POSSIBLE EMBEDDED CONDUITS, STRUCTURAL REBAR, OR UNFORESEEN CONDITIONS OUTSIDE THE SCOPE OF WORK THAT MIGHT IMPEDE THE ANCHORING OF EQUIPMENT OR CONFLICT WITH TRENCHING PRIOR TO 4002 Vista Way CONSTRUCTION. Oceanside, California 92056 H. TYPICALLY CAP AND CLOSE ALL ABANDONED OPENINGS AT EXISTING SLAB. FILL AND PATCH TO LEVEL FLOOR PER DETAILS ON STRUCTURAL SHEETS. NOTIFY ARCHITECT OF UNCOVERED EXISTING CONDITIONS. I. GENERAL CONTRACTOR SHALL INSTALL A TEMPORARY DUST/INFECTION CONTROL TRI-CITY MEDICAL CENTER BARRIER BETWEEN WORK AREA AND ALL ADJACENT ROOMS AND CORRIDORS. INSTALL 4002 VISTA WAY OCEANSIDE, CALIFORNIA 92056 TEMPORARY CURTAIN OF FIRE-RETARDANT VISQUEEN IN THE PLENUM BETWEEN TOP OF STUD PARTITION AND UNDERSIDE OF DECK ABOVE. SEAL ALL OPENINGS INCL. DOORS, AIR SUPPLIES, RETURNS, AND EXHAUST GRILLES. GENERAL CONTRACTOR SHALL PROVIDE A TEMPORARY HEPA FILTRATION SYSTEM WITH NEGATIVE PRESSURE FOR EACH SFEIR ARCHITECTS 5151 SHOREHAM PLACE, SUITE 265 AREA OF THE REMODEL. EXHAUST FILTERED AIR FROM ROOMS UNDER CONSTRUCTION SAN DIEGO, CALIFORNIA 92122 THROUGH BUILDING AIR RETURN SYSTEM. GENERAL CONTRACTOR TO COORDINATE TEL 619.299.3917 BARRIER TYPE, ACCESS, AND FILTRATION SYSTEM WITH OWNER. J. TEMPORARY CONSTRUCTION BARRIERS ARE REQUIRED TO BE INSTALLED DURING MEP: P2S ENGINEERING, INC. CONSTRUCTION OR RECONSTRUCTION OF FIRE-RESISTIVE ASSEMBLIES AND SHALL MEET 9665 CHESAPEAKE DRIVE, SUITE 230 THE SAME FIRE RATING AS THE SPECIFIC PERMANENT PARTITION. TEMPORARY SAN DIEGO, CA 92123 INSTALLATIONS SHALL MAINTAIN ADEQUATE EGRESS IN COMPLIANCE WITH THE CBC AND TEL 619.618.2347 SHALL NOT OBSTRUCT EXISTING EXITS, CREATE A FIRE HAZARD, OR REDUCE REQUIRED FIRE RESISTANCE. STRUCTURAL: SUN STRUCTURAL ENGINEERING, INC. 2292 FARADAY AVE. SUITE 100 K. CONTRACTOR STAGING TO BE IN THE ROOMS UNDER REMODEL. CARLSBAD, CALIFORNIA 92008 L. CONTRACTOR PARKING TO BE IN CONTRACTOR DESIGNATED PARKING AREA. TEL 760.438.1188 M. THE CONTRACTOR SHALL ENSURE THAT THE AREA UNDER REMODEL IS LOCKED AND OTHERWISE SECURED AFTER HOURS. N. DRILLING AND RAM-SETTING TO BE DONE AFTER HOURS. O. GENERAL CONTRACTOR SHALL PRESERVE AND PROTECT THE PORTIONS OF THE EXISTING OVERHEAD PAGING, TELEPHONE, DATA, ELECTRICAL LINES, ETC. DURING THE COURSE OF CONSTRUCTION. MANY OF THESE SYSTEMS ARE SCHEDULED FOR REUSE BY THE OWNER UNDER THIS OR SEPARATE CONTRACTS. Nd. 028543 2 P. PATCH NEW WORK TO MATCH AND ALIGN WITH EXISTING. COMPLETELY REMOVE EXISTING-FINISHES WHERE NEW FINISHES ARE SCHEDULED. Q. CONTRACTOR SHALL PRESERVE AND PROTECT THE EXISTING AREA, EQUIPMENT, CABINETRY, ETC. ADJACENT TO THE AREA OF WORK. RCP GENERAL NOTES: 1. GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO START OF CONSTRUCTION. 2. GENERAL CONTRACTOR SHALL COORDINATE PHASING, ACCESS, DEBRIS REMOVAL, STAGING AREAS, AND HOURS OF CONSTRUCTION WITH OWNER PRIOR TO START OF 3. 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. 4. 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. 5. GENERAL CONTRACTOR SHALL SEPARATE DISSIMILAR METALS WITH BUILDING PAPER OR REV: DESCRIPTION: PLASTIC SHIM. CONSULTANT GENERAL CONTRACTOR SHALL X-RAY AND/OR ULTRASOUND THE EXISTING CONCRETE FLOORS AND FLOOR ABOVE FOR ANY POSSIBLE EMBEDDED CONDUITS, STRUCTURAL REBAR, OR UNFORESEEN CONDITIONS OUTSIDE THE SCOPE OF WORK THAT MIGHT IMPEDE THE ANCHORING OF EQUIPMENT OR CONFLICT WITH TRENCHING PRIOR TO CONSTRUCTION. GENERAL CONTRACTOR SHALL SEISMICALLY ANCHOR ALL EXISTING AND NEW BUILDING HCAI APPROVAL STAMP: SYSTEMS ABOVE CEILING INCLUDING BUT NOT LIMITED TO DUCTWORK, ELECTRICAL HCAI No: S222032-37-00 CONDUITS AND TRAYS, SPRINKLER PIPES, PLUMBING PIPES, ETC. REFER TO A0-00 FOR MORE INFORMATION. 8. GENERAL CONTRACTOR SHALL INSTALL A TEMPORARY DUST/INFECTION CONTROL BARRIER BETWEEN WORK AREA AND ALL ADJACENT ROOMS AND CORRIDORS. INSTALL TEMPORARY CURTAIN OF FIRE-RETARDANT VISQUEEN IN THE PLENUM BETWEEN TOP OF STUD PARTITION AND UNDERSIDE OF DECK ABOVE. 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THE CONTRACTOR SHALL ENSURE THAT THE AREA UNDER REMODEL IS LOCKED AND OTHERWISE SECURED AFTER HOURS. 13. VERIFY ALL DIMENSIONS WITH EQUIPMENT SCHEDULE PRIOR TO START OF CONSTRUCTION. TCMC DECONTAMINATION SINK 14. PROVIDE ACOUSTICAL INSULATION IN ALL NEW WALL ASSEMBLIES. 15. CEILING HEIGHT TO MATCH EXISTING UNLESS OTHERWISE NOTED. (NOT LESS THAN 8'-0") PARTIAL DEMOLITION RCP PHASE I AS NOTED 10/28/22

ARCHITECTS

DECONTAMINATION



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HCAI COMMENTS	······································	1/19/23

RCP KEYNOTES:

- (1) INSTALL GYP. BD. CEILING. PATCH, PRIME, AND PAINT TO MATCH EXISTING.
- 2 PATCH, PRIME, AND PAINT CEILING TO MATCH EXISTING.
- 3 INSTALL NEW 18"x18" CEILING ACCESS PANEL. PRIME AND PAINT TO MATCH EXISTING PANELS & CEILING. REF. SHEET A4-40 / DETAIL 4.
- 4 REINSTALL THE EXISTING LIGHT FIXTURES THAT WERE REMOVED DURING DEMOLITION.

GENERAL NOTES:

- GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO START OF CONSTRUCTION.
- 2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

RCP DEMOLITION GENERAL NOTES:

- A. GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS II THE FIELD PRIOR TO START OF CONSTRUCTION.
- B. GENERAL CONTRACTOR SHALL COORDINATE PHASING, ACCESS, DEBRIS REMOVAL, STAGING AREAS, AND HOURS OF CONSTRUCTION WITH OWNER PRIOR TO START OF CONSTRUCTION.
- C. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL COORDINATE WITH THE OWNER THE REMOVAL OF EXISTING EQUIPMENT INDICATED ON DRAWINGS.
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- 14. PROVIDE ACOUSTICAL INSULATION IN ALL NEW WALL ASSEMBLIES.
- 15. CEILING HEIGHT TO MATCH EXISTING UNLESS OTHERWISE NOTED. (NOT LESS THAN 8'-0")

S F E I

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San Diego, California 92122

TCMC DECONTAMINATION SINK

ARCHITECTS

Tri-City Medical Center

4002 Vista Way Oceanside, California 92056

WNER: TRI-CITY MEDICAL CENTER
4002 VISTA WAY

OCEANSIDE, CALIFORNIA 92056

CHITECT: SFEIR ARCHITECTS

5151 SHOREHAM PLACE, SUITE 265

SAN DIEGO, CALIFORNIA 92122

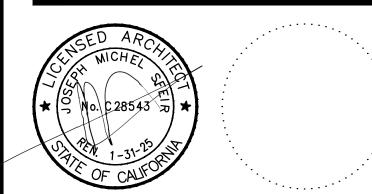
EP: P2S ENGINEERING, INC. 9665 CHESAPEAKE DRIVE, SUITE 230 SAN DIEGO, CA 92123

TEL 619.299.3917

STRUCTURAL: SUN STRUCTURAL ENGINEERING, INC. 2292 FARADAY AVE. SUITE 100 CARLSBAD, CALIFORNIA 92008

TEL 760.438.1188

TEL 619.618.2347



1/19/23

 $\frac{1}{1}$ HCAI COMMENTS

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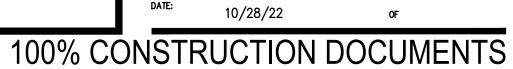
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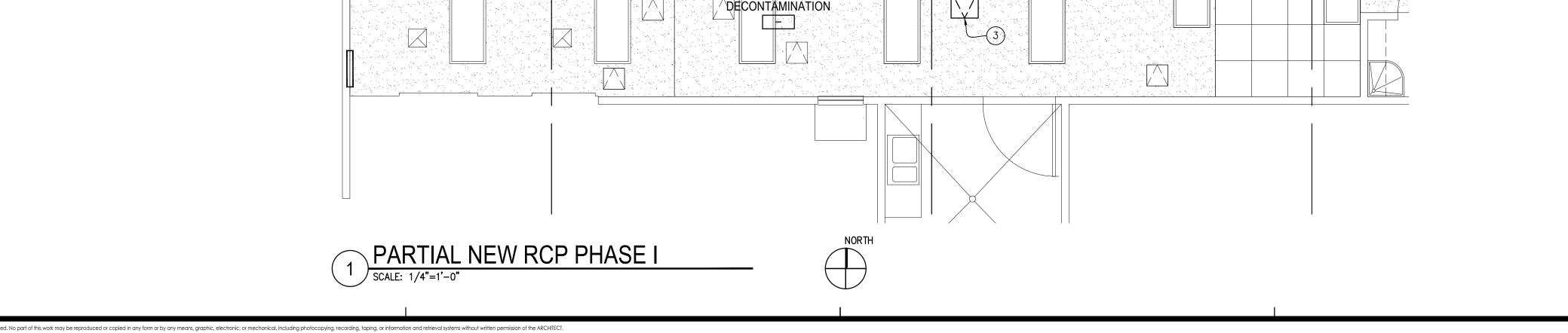
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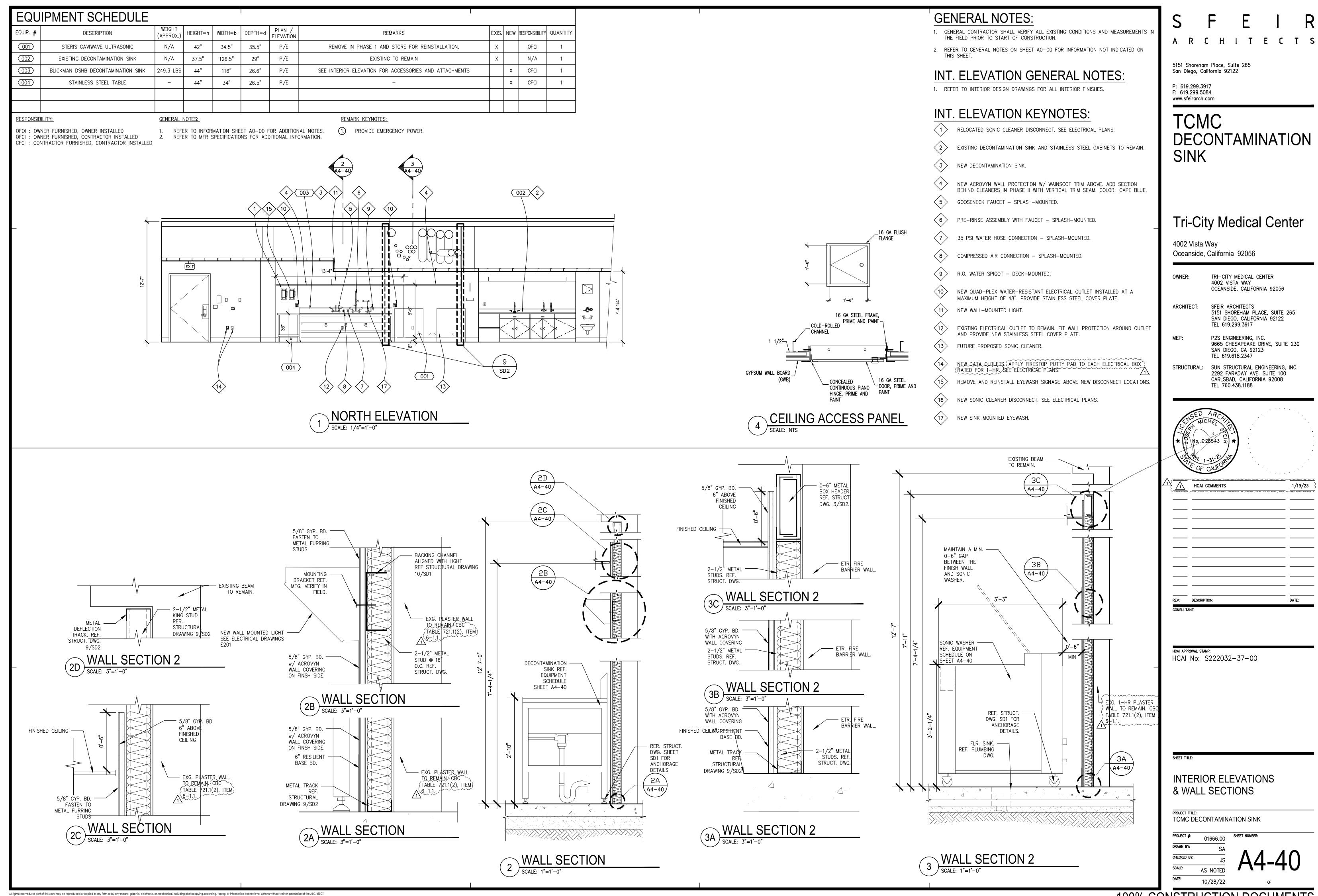
PARTIAL NEW RCP PHASE 1

PROJECT TITLE:
TCMC DECONTAMINATION SINK

PROJECT #:	01666.00	SHEET NUMBER
DRAWN BY:	SA	
CHECKED BY:	JS	Δ_{Δ}
SCALE:	AS NOTED	/\-
DATE:	10 /09 /00	







EQUIPMENT SCHEDULE											
EQUIP. #	DESCRIPTION	WEIGHT (APPROX.)	HEIGHT=h	WIDTH=b	DEPTH=d	PLAN / ELEVATION	REMARKS	EXIS	. NEW	RESPONSIBILITY	QUANTITY
(001)	STERIS CAVIWAVE ULTRASONIC	N/A	42"	34.5"	35.5"	P/E	REMOVE IN PHASE 1 AND STORE FOR REINSTALLATION.	Х		OFCI	1
(002)	EXISTING DECONTAMINATION SINK	N/A	37.5"	126.5"	29"	P/E	EXISTING TO REMAIN	Х		N/A	1
(003)	BLICKMAN DSHB DECONTAMINATION SINK	249.3 LBS	44"	116"	26.6"	P/E	SEE INTERIOR ELEVATION FOR ACCESSORIES AND ATTACHMENTS		Х	CFCI	1
(004)	STAINLESS STEEL TABLE	_	44"	34"	26.5"	P/E	-		Х	CFCI	1
RESPONSIBI	LITY:	GENERAL	NOTES:				REMARK KEYNOTES:				
OFOI: OWNER FURNISHED, OWNER INSTALLED 1. REFER TO INFORMATION SHEET A0-00 FOR ADDITIONAL NOTES. (1.) PROVIDE EMERGENCY POWER.											

OFCI: OWNER FURNISHED, CONTRACTOR INSTALLED 2. REFER TO MFR SPECIFICATIONS FOR ADDITIONAL INFORMATION. CFCI: CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

ELECTRICAL BOXES MIN. OF (2) 18GA STEEL STRAPS; 2"x20" TYP.; SECURE TO STUDS W/ (2) #8 SMS EA. SIDE; SET TRACK PARTIALLY BEHIND EXISTING LATH & PLASTER PLASTER -ELECTRICAL BOX - APPLY BOX BRACING SECURE TO STUDS WITH (2) #8 SMS EA. SIDE FIRESTOP PUTTY PAD OR EQUAL TO BOX, MIN 1-HR REMOVE PLASTER 1" BEYOND-3/4"" PLASTER -STUDS TO INSTALL BOXES PATCH TÓ MATCH EXG. EXISTING LATH & PLASTER AND PATCH HOLE W/ LATH & PLASTER; PRIME AND MIN. 3/4" PLASTER. SEE CBC TABLE 721.1(2) ITEM 6-1.1. ALIGN SURFACE W/ EXISTING PLASTER WALL PATCH SCALE: NTS ADJACENT PLASTER SURFACE

GENERAL NOTES:

- GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO START OF CONSTRUCTION.
- 2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

INT. ELEVATION GENERAL NOTES:

1. REFER TO INTERIOR DESIGN DRAWINGS FOR ALL INTERIOR FINISHES.

INT. ELEVATION KEYNOTES:

- 1 RELOCATED SONIC CLEANER DISCONNECT. SEE ELECTRICAL PLANS.
- 2 EXISTING DECONTAMINATION SINK AND STAINLESS STEEL CABINETS TO REMAIN.
- 3 NEW DECONTAMINATION SINK.
- NEW ACROVYN WALL PROTECTION W/ WAINSCOT TRIM ABOVE. ADD SECTION BEHIND CLEANERS IN PHASE II WITH VERTICAL TRIM SEAM. COLOR: CAPE BLUE.
- GOOSENECK FAUCET SPLASH-MOUNTED.
- 6 PRE-RINSE ASSEMBLY WITH FAUCET SPLASH-MOUNTED.
- > 35 PSI WATER HOSE CONNECTION SPLASH-MOUNTED.
- COMPRESSED AIR CONNECTION SPLASH-MOUNTED.
- 9 R.O. WATER SPIGOT DECK-MOUNTED.
- NEW QUAD-PLEX WATER-RESISTANT ELECTRICAL OUTLET INSTALLED AT A MAXIMUM HEIGHT OF 48". PROVIDE STAINLESS STEEL COVER PLATE.
- 11) NEW WALL-MOUNTED LIGHT.
- 2 EXISTING ELECTRICAL OUTLET TO REMAIN. FIT WALL PROTECTION AROUND OUTLET AND PROVIDE NEW STAINLESS STEEL COVER PLATE.
- FUTURE PROPOSED SONIC CLEANER.
- NEW DATA OUTLETS. APPLY FIRESTOP PUTTY PAD TO EACH ELECTRICAL BOX
 (RATED FOR 1-HR. SEE ELECTRICAL PLANS.

ENGINEERING JUDGMENT FIRESTOP DETAIL

*F Rating - 1 HR

L Rating at Ambient = 5cfm/sq ft or Less

L Rating at 400°F = 5cfm/sq ft or Less

Penetrant - Penetrant to be one of the following items. Annular space is min 0" (point contact) to max 1":

Sealant - SpecSeal® LCI Sealant applied within annular space to a min 5/8" depth on both sides of wall, flush with

outer wall surfaces. At point contact locations, apply a min 1/2" diam bead of sealant at penetrant/plaster interface

*Note: Fire rating of this system is dependent upon the performance of the surrounding construction under fire

THIS DESIGN REPRESENTS A FIRESTOP SYSTEM EXPECTED TO PASS THE STATED RATINGS IF TESTED

A EJ - EXISTING PLASTER WALL
SCALE: NTS

- REMOVE AND REINSTALL EYEWASH SIGNAGE ABOVE NEW DISCONNECT LOCATIONS.
- 6 NEW SONIC CLEANER DISCONNECT. SEE ELECTRICAL PLANS.
- 17> NEW SINK MOUNTED EYEWASH.

Wall Assembly (1 Hr) - Plaster wall assembly.

B. Max 2" diam (or smaller) cast iron pipe.

conditions with a max possible rating of 1 Hr.

ect Address: 4002 Vista Way Oceanside, California 92056

Clay Hensley, Sr. Fire Protection Engineer

on both sides of wall.

tt. TCMC Decon Sink

Max 1" diam (or smaller) steel conduit or EMT.

S F E I R
ARCHITECTS

5151 Shoreham Place, Suite 265 San Diego, California 92122

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TCMC DECONTAMINATION SINK

Tri-City Medical Center

4002 Vista Way Oceanside, California 92056

NER: TRI-CITY MEDICAL CENTER
4002 VISTA WAY

OCEANSIDE, CALIFORNIA 92056

ARCHITECT: SFEIR ARCHITECTS
5151 SHOREHAM PLACE, SUITE 265
SAN DIEGO, CALIFORNIA 92122
TEL 619.299.3917

MEP: P2S ENGINEERING, INC. 9665 CHESAPEAKE DRIVE, SUITE 230

SAN DIEGO, CA 92123 TEL 619.618.2347

STRUCTURAL: SUN STRUCTURAL ENGINEERING, INC. 2292 FARADAY AVE. SUITE 100 CARLSBAD, CALIFORNIA 92008 TEL 760.438.1188



HCAI COMMENTS

	-	
REV:	DESCRIPTION:	DATE:

1/19/23

HCAI APPROVAL STAMP:
HCAI No: S222032-37-00

ET HILE:

DETAILS

PROJECT TITLE:
TCMC DECONTAMINATION SINK

PROJECT #	01666.00	SHEET NUMBER:
DRAWN BY:	SA	
CHECKED BY:	JS	$\{\Delta h\}$
SCALE:	AS NOTED	

GENERAL NOTES

- 1. 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
- 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 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
- 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 VISITS TO THE SITE BY THE ADDITECT AND STRUCTURAL ENGINEER SHALL VISITS TO THE SITE BY THE ARCHITECT AND STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS AND DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITIES.
- 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.
- 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.
- 6. ALL WORKS SHALL CONFORM TO THE STANDARDS OF THE 2019 CALIFORNIA BUILDING CODE.
- 7. A.S.T.M. SPECIFICATIONS NOTED ON THE DRAWINGS SHALL BE OF THE LATEST
- 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.
- 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.

EXPANSION ANCHOR BOLTS ALL FIELD INSTALLED CONCRETE EXPANSION ANCHORS SHALL BE HILTI KB-TZ2 STAINLESS STEEL ANCHORS.

ANCHOR TYPE ICC-ES ESR# 3/8"ø HILTI KB TZ2 4266 1/2"ø HILTI KB TZ2 4266 ALL ANCHORS SHALL BE TESTED BASED ON THE FOLLOWING CRITERIA: TORQUE ICC-ES ESR# ANCHOR TYPE 3/8"ø HILTI KB TZ2 ANCHOR 25 FT-LBS 4266 1/2"ø HILTI KB TZ2 ANCHOR 40 FT-LBS 4266

MINIMUM ANCHOR EMBEDMENT SHALL BE 2" FOR HILTI KB-TZ2 ANCHORS 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 AND CONDUITS IN THE SLAB BY USING A NON DESTRUCTIVE METHOD PRIOR TO INSTALLATION WHEN INSTALLING THEM INTO PRESTRESSED CONCRETE (PRE OR POST TENSIONED) LOCATED 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 1" MINIMUM CLEARANCE BETWEEN EXISTING REINFORCEMENT AND THE

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. TESTING SHOULD OCCUR A MINIMUM 24 HOURS AFTER INSTALLATION OF THE 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

EPOXY ANCHOR

WITHDRAWING BY THE FIXTURE. TEST EQUIPMENT INCLUDING TORQUE WRENCHES SHALL BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES. TEST METHODS; THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:

A). HYDRAULIC RAM METHOD: 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.

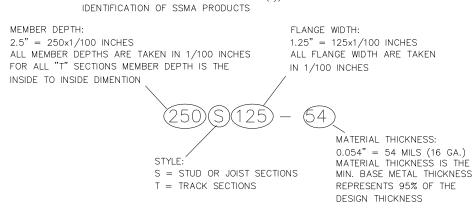
B). TORQUE WRENCH METHOD: ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH MUST ATTAIN THE SPECIFIED TORQUE WITHIN $\frac{1}{2}$ TURN OF THE NUT.

1. WEDGDE OR SLEEVE TYPE: ONE-QUARTER $(\frac{1}{4})$ Turn of the nut for a $\frac{3}{8}$ in. Sleeve anchor only. 2. Threaded type: ONE QUARTER $(\frac{1}{4})$ 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 PER CBC 2016, 1910A.5. ALL TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE INSPECTOR OF RECORD.

COLD-FORMED STEEL FRAMING

- 1. 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
- STRUCTURAL LIGHT GAUGE STUDS, TRACK, BRIDGING, AND ACCESSORIES SHALL COMPLY WITH STEEL STUD MANUFACTURERS ASSOCIATION ICBO ER-4943P STRUCTURAL LIGHT GAUGE CH STUDS, J RUNNER TRACK, AND ACCESSORIES SHALL COMPLY WITH DIETRICH METAL FRAMING ICC-ESR# 1166P
- 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
- FRAMING SHALL BE ERECTED PLUMB, LEVEL AND SQUARE. BRIDGING AND DIAGONAL TENSION STRAPS SHALL BE USED.
- 5. TEMPORARY BRACING SHALL BE PROVIDED AS REQUIRED UNTIL ERECTION IS COMPLETE AND SAFELY SECURED TO STRUCTURE.
- 6. COLD-FORMED STEEL YIELD STRENGTH (fy) IS 50 KSI.



EXAMPLE

COLD-FORMED STEEL STUDS PROPERTIES						
IDENTIFICATION	MEMBER DEPTH	FLANGE WIDTH	MATERIAL THICKNESS			
250S125-54	2.5"	1.25"	16 GA.			
250T125-54	2.5"	1.25"	16 GA.			
400S125-54	4"	1.25"	16 GA.			
600T162-54	6"	1.625"	16 GA.			

CONCRETE:

- CONCRETE CONSTRUCTION SHALL CONFORM TO C.B.C. CHAPTER 19.
- 2. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND STRENGTH TEST REPORT SHALL BE SUBMITTED AND APROVED BY THE STRUCTURAL ENGINEER.
- 3. THE MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS TO BE AS FOLLOWS: CONCRETE PAD AND CURB: 3000 PSI
- 4. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150 TYPE I OR TYPE II.
- 5. AGGREGATE SHALL COMFORM TO ASTM C 33 FOR NORMAL WEIGHT CONCRETE AND SHALL CONFORM TO C 330 FOR LIGHT WEIGHT CONCRETE.
- 6. ADMIXTURES IF USED SHALL CONFORM TO ACI 318-19 SECTION 3.6. 7. DRYPACK SHALL CONSIST OF ONE PART OF PORTLAND CEMENT AND TWO
- 8. ADMIXTURES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER. ADMIXTURES USED TO INCREASE THE WORKABILITY OF THE CONCRETE SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT (CALCIUM CHLORIDE SHALL NOT BE USED.) CONCRETE SHALL NOT COME IN CONTACT WITH ALUMINUM.
- 9. THE CONCRETE MIX DESIGNS SHALL BE SUBMITTED FOR REVIEW BY THE SPECIAL INSPECTOR AND TO BE REVIEWED AND ACCEPTED BY A REGISTERED DESIGN PROFESSIONAL. THE CONCRETE MIX DESIGN SHALL INCLUDE THE TEST AGE FOR DEMONSTRATING COMPLIANCE WITH THE DESIGN STRENGTH I'C

REINFORCING STEEL

1. BAR REINFORCEMENT SHALL CONFORM TO GRADE 60

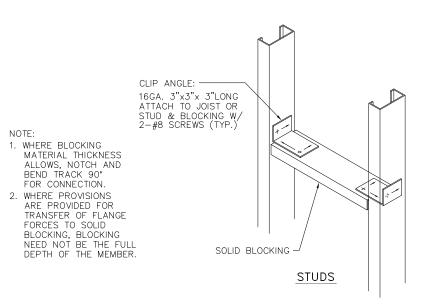
- 2. DETAILS OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH CHAPTER 7 OF THE LATEST A.C.I. 318 U.N.O.
- 3. LAPS AT BAR SPLICES IN CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH CHAPTER 12 OF THE LATEST A.C.I. 318 U.N.O.
- 4. ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE PRIOR PLACING CONCRETE

SEISMIC LOAD

LONGITUDE: 117.29178° WEST, LATITUDE: 33.18425° NORTH DESIGN SPECTRAL RESPONSE ACCLERATION: $S_{ns}^* = 0.760$

SEISMIC IMPORTANCE FACTOR, Ip = 1.5SEISMIC FORCE COEFFICIENTS: $a_p = 1.0, R_P = 2.5$

SEISMIC DESIGN CATEGORY "D"



BLOCKING AT PARTITION

---- • SOLID BLOCKING:

• FOR TRACK:

LOCATE BLOCKING AT EACH END OF WALL, ADJACENT TO OPENINGS @ 8'-0" O.C.

WHERE BLOCKING MATERIAL THICKNESS

(EACH SIDE)

ONE ROW OF BRIDGING

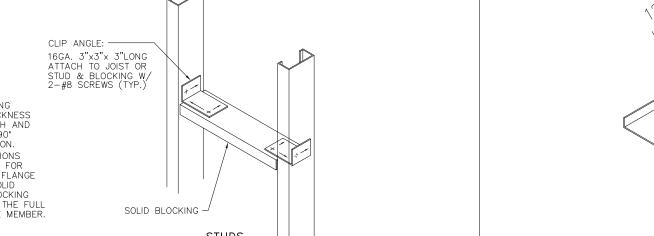
WALL BRIDGING

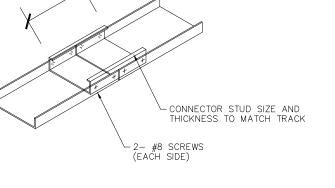
AT MID HIGHT OF THE WALL

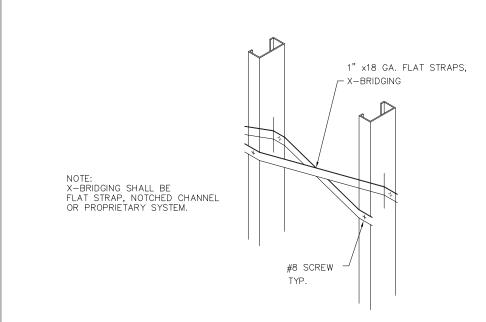
ALLOWS, NOTCH AND BEND FLANGES 90 OR

ANCHOR TO VERTICALS W/ 3"x3"x 3"LONG 16 GA. CLIP ANGLES CONNECTED TO BLKG. AND VERTICAL STUDS W/ 2-#8 S.M. SCREWS @ EA. LEG OF CLIP

SCALE: NTS







TOP & BOTTOM TRACK SPLICE

SCALE: NTS





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REV: DESCRIPTION: DATE:

HCAI APPROVAL STAMP: HCAI No: S222032-37-00

GENERAL NOTES TYPICAL DETAILS

SHEET NUMBER:

TCMC DECONTAMINATION SINK

01666.00

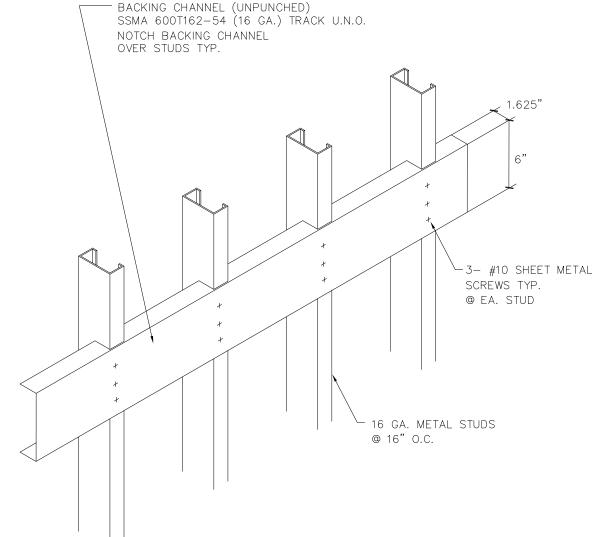
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SCREWS TYP. @ EA. STUD 16 GA. METAL STUDS @ 16"O.C.

TYPICAL BACKING FOR CABINETS AND EQUIPMENT



SCALE: NTS



_1" x18 GA. FLAT STRAPS,

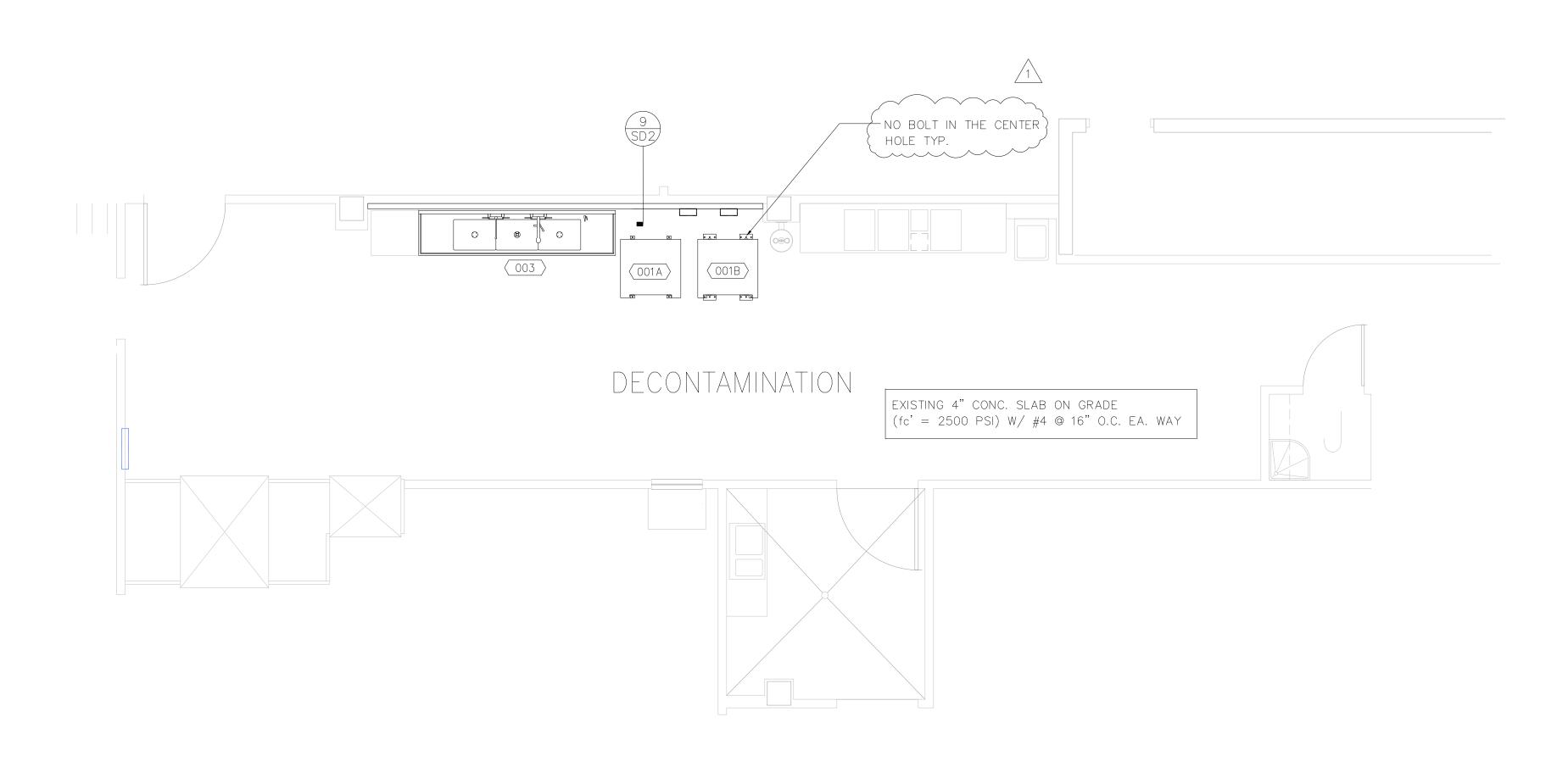
LAP SPLICE STRAPS MINIMUM 4"(102mm).

NOTCHED CHANNEL,

(EACH SIDE)

X-BRIDGING OR PROPRIETARY BRIDGING

BACKING CHANNEL SHALL BE LONGER THAN HUNG ITEM OR CABINET BY 1 STUD SPACE EACH END MINIMUM



PARTIAL FLOOR PLAN

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

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	EQUIPMENT SCHEDULE			
EQUIP #	DESCRIPTION	WEIGHT(APPROX.)	DETAIL	
(001A)	STERIS CAVIWAVE ULTRASONIC	752 LBS	4 SD1 SD1	
(001B)	STERIS CAVIWAVE ULTRASONIC	752 LBS	7 SD1 8 SD1	
(003)	BLICKMAN DSHB DECONTAMINATION SINK	249.3 LBS	1 SD1 2 SD1	

NOTES

- 1. DO NOT SCALE THESE DRAWINGS. PRIOR TO START OF CONSTRUCTION, ALL DIMENSIONS AND ELEVATIONS MUST BE VERIFIED WITH THE APPRD. SET OF ARCHITECHURAL DRAWINGS. IN CASE OF DISCREPENCIES, STRUCTURAL ENGINEER OF RECORD MUST BE NOTIFIED IN WRITING.
- 2. ALL EXISTING MEMBER SIZES, SPACING, & DIMENSIONS MUST BE FIELD VERIFIED. IN CASE OF DISCREPANCIES STRUCTURAL ENGINEER MUST BE NOTIFIED IN WRITING.

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TCMC DECONTAMINATION SINK

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$\frac{1}{2}$	HCAI COMMENTS	1/19/23
REV:	——————————————————————————————————————	 DATE:

hcai approval stamp: HCAI No: S222032—37—00

SHEET TITLE:

EXIST. PARTIAL FLOOR PLAN

PROJECT TITLE:
TCMC DECONTAMINATION SINK

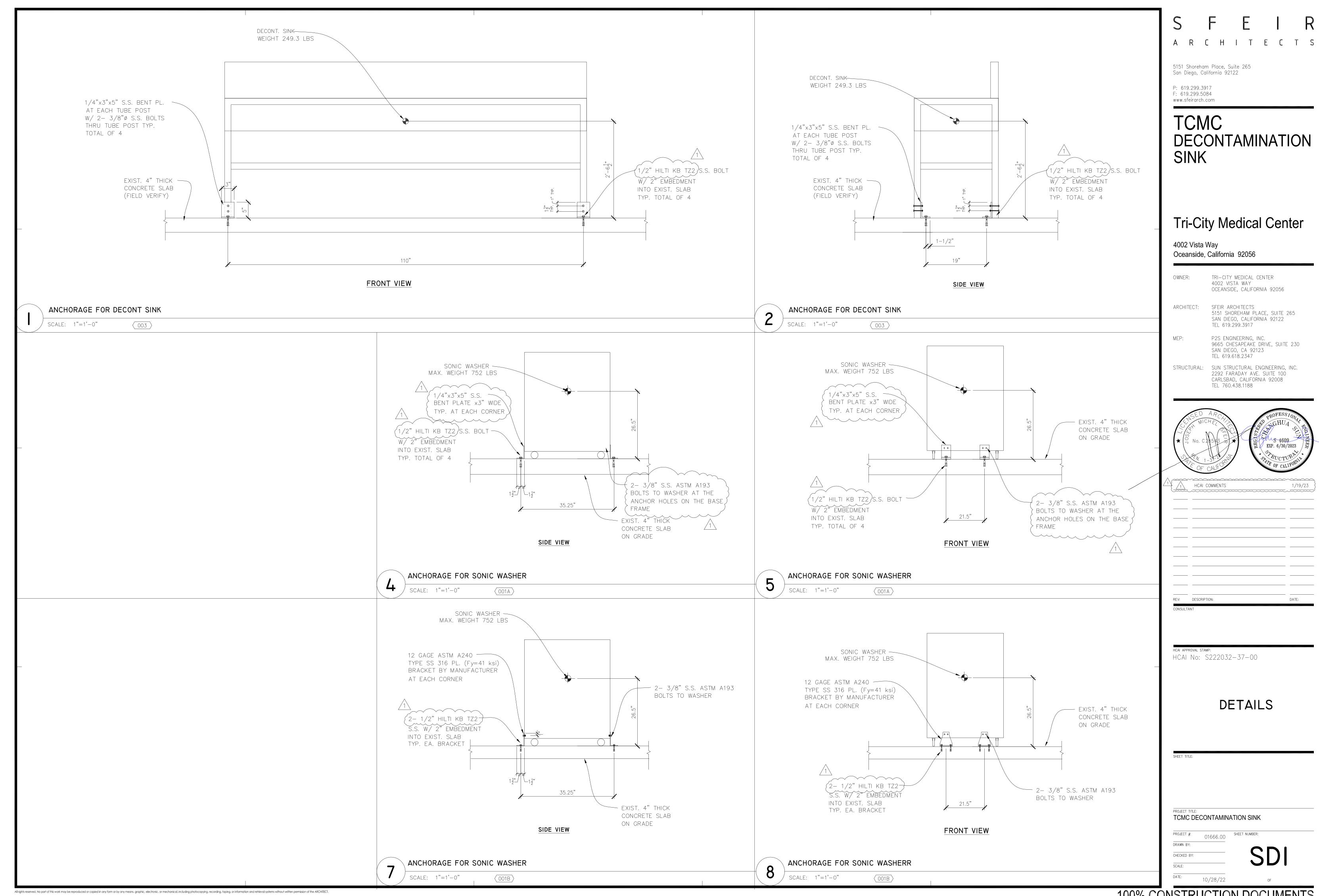
PROJECT #: 01666.00

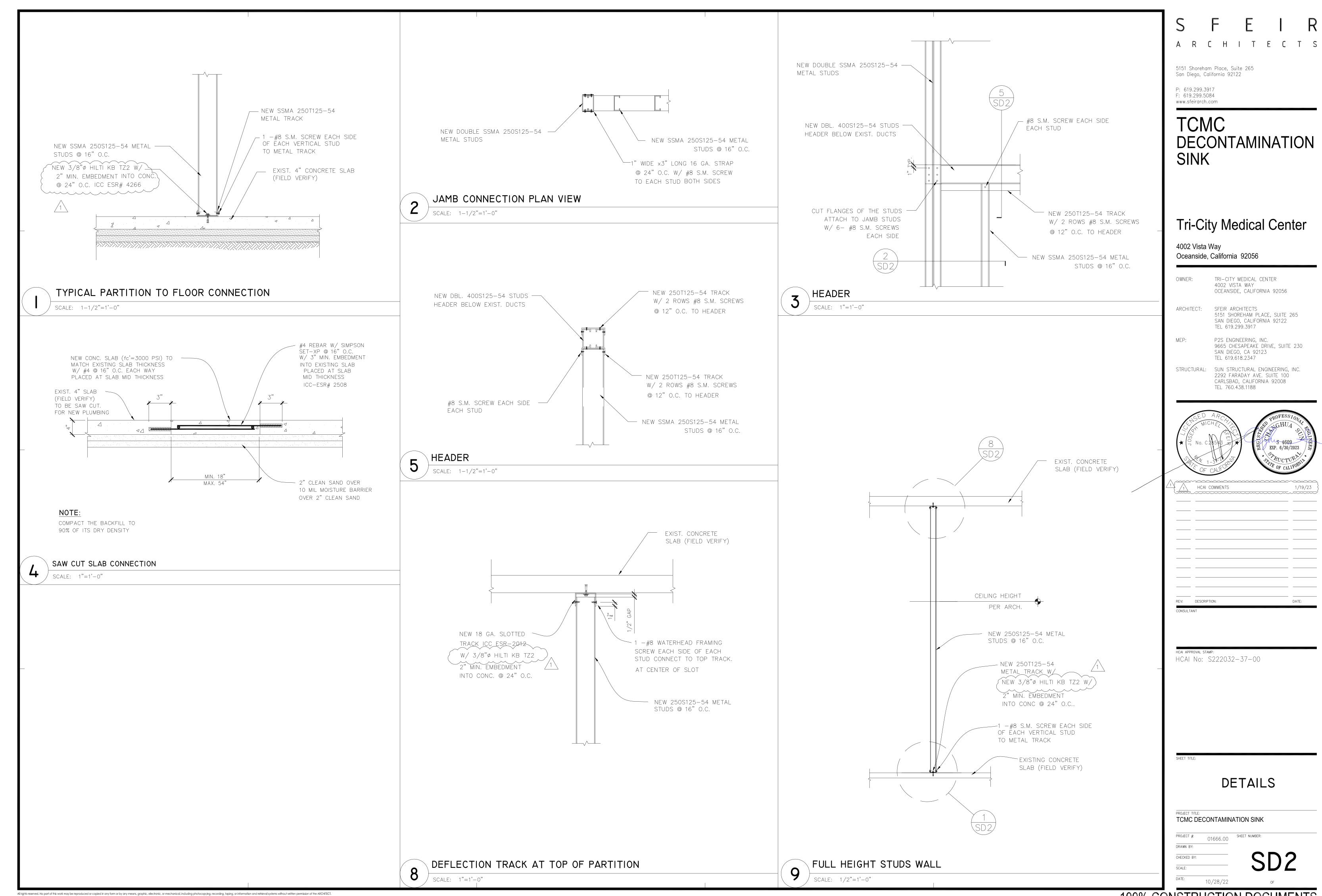
DRAWN BY:

CHECKED BY:

SCALE:

5-Z





EGEND			
<u>SYMBOL</u>	<u>DESCRIPTION</u>	A	TERMINATION
-	NOTE CALLOUT	Δ	EXISTING TERMINATION
<u>-</u>	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN	↑ 52 >	MEDIUM VOLTAGE - AIR CIRCUIT BREAKER DRAWOUT BREAKER
-	MECHANICAL EQUIPMENT CALLOUT, SEE MECHANICAL PLANS FOR EXACT LOCATION AND REQUIREMENTS	%	MEDIUM VOLTAGE FUSED DISCONNECT SWITCH
	SECTION CALLOUT	-	MEDIUM VOLTAGE MODULAR SPLICE
		₹-	MEDIUM VOLTAGE EXISTING MODULAR SPLICE
	FEEDER CALLOUT	0	JUNCTION BOX
_	EXISTING FEEDER CALLOUT	© 	PHOTOCELL FOR EXTERIOR APPLICATIONS
\rightarrow	NEW LINEWORK	DS	DAYLIGHT SENSOR - CEILING MOUNTED
~	EXISTING LINEWORK	R	RELAY EMERGENCY RELAY UL 924 COMPLIANT
·/ -/ / -/ /	DEMOLISHED LINEWORK	M	MOTION SENSOR - CEILING MOUNTED
`	CONDUIT CONCEALED IN WALL OR ABOVE CEILING	<u>M</u>	MOTION SENSOR - CORNER OR WALL MOUNTED
	CONDUIT EXPOSED	<™>	MOTION SENSOR WITH AISLE/CORRIDOR LENS - CEILING MOUNTED
	CONDUIT CONCEALED UNDERGROUND OR BELOW FLOOR	MD	COMBINATION MOTION AND DAYLIGHT SENSOR
	CONDUIT EMERGENCY	N	LIGHTING CONTROL NETWORK DEVICE
- W — W —	MULTI-CHANNEL RACEWAY CONDUIT TURNED UP	<u> </u>	DIGITAL TIMER SWITCH
	CONDUIT CAPPED	₩ <u></u>	MOTION SENSOR SWITCH
A-1	BRANCH CIRCUIT HOMERUN TO PANELBOARD AND CIRCUITS AS		LOW VOLTAGE SWITCH
	INDICATED 2/4" CONDUIT TICK MARKS INDICATE OF ANTITY OF #12 AWG MIRES	LV DM	
udz - >	3/4" CONDUIT, TICK MARKS INDICATE QUANTITY OF #12 AWG WIRES (UNLESS NOTED OTHERWISE, NO MARKS INDICATES 2#12 & 1#12 GND WIRES)	₽	DIMMER MASTER SWITCH
	- SMALL MARK DENOTES HOT WIRE - LARGE MARK DENOTES NEUTRAL WIRE	<u> </u>	DIGITAL DIMMING SWITCH
	- DIAGONAL DENOTES GROUND WIRE GENERATOR	G	GRAPHICAL TOUCH SCREEN - LIGHTING CONTROL STATION
⑤ •/		Φ	THERMOSTAT WITH A 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE
b	SWITCH	-~ ⊙₁	MODULAR FURNITURE - BASE POWER WHIP FEED CONNECTION
)	CIRCUIT BREAKER	⊠—[]	MODULAR FURNITURE - FLOOR BOX FEED CONNECTION
°	2-WAY SWITCH, TRANSFER SWITCH	⊠—⊙	MODULAR FURNITURE - POWER POLE FEED CONNECTION LIGHTING CONTROL PANEL - SURFACE MOUNTED
П	FUSE		PANELBOARD - RECESSED MOUNTED
<u>ы</u>	TRANSFORMER	_	PANELBOARD - SURFACE MOUNTED
			DISTRIBUTION PANEL/ BOARD
<u>+</u>	GROUND CONNECTION		
\bigcirc	MOTOR - SINGLE PHASE FRACTIONAL OR INTEGRAL HORSEPOWER	Ş	SINGLE POLE SWITCH, DEVICE SHALL BE MOUNTED +48" MAX AND +36" MIN FROM THE CENTER OF DEVICE:
\longrightarrow	METER	§ ³	SWITCH 3-WAY (48" AFF MAXIMUM)
ECM	ELECTRONIC CIRCUIT MONITOR	$\boldsymbol{\S}^{^{T}}$	TIMER SWITCH (48" AFF MAXIMUM)
€		S ab	DUAL SWITCH (48" AFF MAXIMUM)
*)	480V DRAWOUT BREAKER	•	PUSHBUTTON SWITCH
VFD	VARIABLE FREQUENCY DRIVE		RECESSED ON WALL G=GFCI, WP=WEATHER PROOF
			SURFACE G=GFCI, WP=WEATHER PROOF FLOOR OR CEILING C=CEILING
	PANEL		20A, 125V DUPLEX RECEPTACLE MOUNTED +15" AFF, UNLESS OTHERWISE NOTED
		₩ ₩ ₩	20A, 125V QUAD RECEPTACLE
	FUSED DISCONNECT SWITCH		MOUNTED +15" AFF, UNLESS OTHERWISE NOTED 20A, 125V DUPLEX RECEPTACLE
&r □	NON-FUSED DISCONNECT SWITCH		RECEPTACLE ON DEDICATED CIRCUIT 20A, 125V CONTROLLED DUPLEX RECEPTACLE
_	COMBINATION STARTER/DISCONNECT SWITCH		20A, 125V QUAD RECEPTACLE
Ş [™]	SWITCH MOTOR RATED	₩ ₩ ₩	(HALF) CONTROLLED RECEPTACLE SPECIAL RECEPTACLE
•	SPLICE	+O +O O •O +O O	REFER TO DRAWINGS FOR NEMA CONFIGURATION JUNCTION BOX
			RECESSED POKE-THROUGH
		↓ ↓ ↓	RECESSED POKE-THROUGH - POWER/TEL/DATA RECESSED FLOOR BOX - POWER/TEL/DATA
			20A, 125V DUPLEX RECEPTACLE FIRE RATED TYPE
			20A, 125V QUAD RECEPTACLE FIRE RATED TYPE

ABBREVIATIONS

ABBRE	VIATIONS		
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
1/C	SINGLE CONDUCTOR	KVA	KILOVOLT-AMPERES
&	AND	KW	KILOWATT
@ A OR AMP	AT AMPERES	LF LFMC	LINEAR FEET LIQUIDTIGHT FLEXIBLE METAL CONDUIT
ABV A.C.	ABOVE ASPHALT CONCRETE	LGST LIS	LARGEST LOAD INTERRUPTER SWITCH
AF	AMPERE FUSE RATING	LOC.	LOCATION
AFC AFF	AVAILABLE FAULT CURRENT ABOVE FINISHED FLOOR	LOTO LSI	LOCK-OUT & TAG-OUT LONG TERM, SHORT TERM, INSTANTANEOUS
AFG AIC	ABOVE FINISH GRADE AMPERE INTERRUPTING CAPACITY	LTG LV	LIGHTING LOW VOLTAGE
AL	ALUMINUM	M	METER
APPROX. ARCH.	APPROXIMATE ARCHITECT; ARCHITECTURAL	MAX MCA	MAXIMUM MAXIMUM CIRCUIT AMPACITY
AS ASCC	AMPERE SWITCH RATING AVAILABLE SHORT CIRCUIT CURRENT	MCC MCP	MOTOR CONTROL CENTER MOTOR CIRCUIT PROTECTOR
ATC	AIR TERMINAL CHAMBER	MFGR, MFR	MANUFACTURER
ATO ATS	AUTOMATIC THROW-OVER (SWITCH) AUTOMATIC TRANSFER SWITCH	MH MI.	MANHOLE MECHANICAL INTERLOCK
AUTO AUX	AUTOMATIC AUXILIARY	MRCT MIN	MULTI-RATIO CURRENT TRANSFORMER MINIMUM
AWG	AMERICAN WIRE GAUGE	MOCP	MAXIMUM OVERCURRENT PROTECTION
BAT BEL	BATTERY BELOW	MTD MTG	MOUNTED MOUNTING
BKBD BKR	BACKBOARD BREAKER	MTR MTTB	MOTOR MAIN TELEPHONE TERMINAL BOARD
BLDG	BUILDING	MV	MEDIUM VOLTAGE
B.S. C	BARE STRANDED CONDUIT	N NAC	NORTH NOTIFICATION APPLIANCE CIRCUIT
CB CC	CIRCUIT BREAKER CONSTANT CURRENT	NC NEC	NORMALLY CLOSED NATIONAL ELECTRICAL CODE
CEC	CALIFORNIA ELECTRICAL CODE	NF	NON-FUSED
CF CKT	CUBIC FEET CIRCUIT	NIC NL	NOT IN CONTRACT NIGHT LIGHT- 24HRS ON
CL CLG	CENTER LINE CEILING	NO. OC	NUMBER ON CENTER
CMU	CONCRETE MASONRY UNIT	OCPD	OVERCURRENT PROTECTIVE DEVICE
C.O. COL	CONDUIT ONLY WITH PULL WIRE COLUMN	OD OE	OUTSIDE DIAMETER OVERHEAD ELECTRICAL
CP CPT	COMMUNICATION PROCESSOR CONTROL POWER TRANSFORMER	OFC OH	OIL FUSED CUTOUT OVERHEAD
CR	CONTROL RELAY	OL	OIL LEVER SWITCH
CSFD CT	COMBINATION SMOKE FIRE DAMPER CURRENT TRANSFORMER	P PAC	POLE PROGRAMMABLE AUTOMATION CONTROLLER
CW CU	COLD WATER COPPER	PB PC	PULL BOX PHOTOCELL
DIAG	DIAGRAM	PCB	POLYCHLORINATED BIPHENYL
DIST. DL	DISTANCE DAMP LOCATION LISTING	PDS PF	PRESSURE DIFFERENTIAL SWITCH POWER FACTOR
DM DMM	DIGITAL METER DIGITAL METER MODULE	PH OR Ø PILC	PHASE PAPER INSULATED, LEAD COVER
DP	DISTRIBUTION PANEL	PIV	POST INDICATING VALVE
DIST. DWG	DISTANCE DRAWING	PL PLC	PLATE PROGRAMMABLE LOGIC CONTROLLER
DWP EA	DEPARTMENT OF WATER & POWER EACH	PNL POC	PANEL POINT OF CONNECTION
ECM	ELECTRONIC CIRCUIT MONITOR	PREF.	PREFERRED
ELEC. EM	ELECTRICAL EMERGENCY	PRI. PVC	PRIMARY POLY-VINYL CHLORIDE
EMH EMT	ELECTRICAL MANHOLE ELECTRICAL METALLIC TUBING	PWR REC/RECEPT	POWER RECEPTACLE
EPO	EMERGENCY POWER OFF	REQ'D	REQUIRED
EPR EQUIP	ETHYLENE PROPYLENE RUBBER EQUIPMENT	RGS RMC	RIGID GALVANIZED STEEL RIGID METAL CONDUIT
ER ERR	EXISTING TO BE REMOVED EXISTING TO BE RELOCATED AND -	RPBP RM	REDUCED PRESSURE BACK FLOW PREVENTER ROOM
	RECONNECTED	RTAC	REAL TIME AUTOMATION CONTROLLER
EXIST/(E) EXP	EXISTING EXPLOSION PROOF	SCCR SCE	SHORT CIRCUIT CURRENT RATING SOUTHERN CALIFORNIA EDISON
FA FFE	FIRE ALARM FINISHED FLOOR ELEVATION	SF SHT	SQUARE FEET SHEET
FIN.	FINISH	SIG.	SIGNAL
FIP. FIXT	FIELD INTERFACE PANEL FIXTURE	SP SPECS	SPARE SPECIFICATIONS
FLA FLR	FULL LOAD AMPS FLOOR	ST STD	STREET STANDARD
FLUOR	FLUORESCENT	STP	SHIELDED TWISTED PAIR
FT FACP	FEET FIRE ALARM CONTROL PANEL	SW SWBD	SWITCH SWITCHBOARD
FATC FMC	FIRE ALARM TERMINAL CABINET FLEXIBLE METAL CONDUIT	SWGR SWST	SWITCHGEAR SWITCHING STATION
FO	FIBER OBTIC	TB	TERMINAL BLOCK
FTG GEN	FOOTING GENERATOR	TEL./TELE TMH	TELEPHONE TELEPHONE MANHOLE
GFI GFR	GROUND FAULT INTERRUPTER GROUND FAULT RELAY	T.O.D. T.O.M.	TOP OF DUCTBANK TOP OF MANHOLE
GG	GREEN GROUND	TPS	TWISTED SHIELDED PAIR
GND HOA	GROUND HAND-OFF-AUTOMATIC	TRANSF,XFMR TS	TRANSFORMER TAMPER SWITCH
HP HT	HORSEPOWER HEIGHT	TYP UG	TYPICAL UNDERGROUND
HTR	HEATER	UON	UNLESS OTHERWISE NOTED
HZ ICON	HERTZ INTEGRATED COMMUNICATIONS OPTICAL -	V VA	VOLTS VOLT-AMPERES
ΙΕ	NETWORK INVERT ELEVATION	VB VFD	VIBRATION SWITCH VARIABLE FREQUENCY DRIVE
IED	INTELLIGENT ELECTRONIC DEVICES	W	WATTS
IMC ISC	INTERMEDIATE METAL CONDUIT SHORT CIRCUIT CURRENT	W/ W/O	WITH WITHOUT
INCAND J, JB, J-BOX	INCADESCENT JUNCTION BOX	WCR WP	WITHSTAND CLOSE-ON RATING WEATHERPROOF
KCMIL	THOUSAND CIRCULAR MILS	Z	IMPEDANCE
KV	KILOVOLT	LIGER REFEREN	OF WILL DE MADE TO ANOLY (AND TARY

IN THE EVENT ABBREVIATIONS NOT MENTIONED HEREIN ARE USED, REFERENCE WILL BE MADE TO ANSI Y1.1, MILITARY STANDARD ABBREVIATIONS, AND OTHER STANDARD INDUSTRY CONVENTIONS.

GENERAL NOTES

- ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE AND ALL
 OTHER APPLICABLE FEDERAL AND STATE. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE
 RESTRICTIVE REQUIREMENTS, THE CONSTRUCTION DOCUMENTS SHALL GOVERN BUT THE
 CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR
 REGULATION.
- 2. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS' LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
- 3. THE CONTRACTOR SHALL NOT BORE, NOTCH OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT OR STRUCTURAL ENGINEER.
- 4. MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT ANCHORAGE NOTES:

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCES AND DISPLACEMENT REQUIREMENTS.

- 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 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

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 STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

5. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN LATEST SECTIONS OF CBC AND ASCE.

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 (OPA #) 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.

SHEET INDEX

SHEET DESCRIPTION

GOULD GENERAL NOTES, LEGEND, AND SHEET INDEX

E101 SPECIFICATIONS

E201 RENOVATION FLOOR PLAN

ED201 DEMOLITION FLOOR PLAN

E601 PARTIAL SLD, PANEL SCHEDULE & LOAD SUMMARIES

E701 TIME CURRENT CURVES

S F E I R

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TCMC DECONTAMINATION SINK

Tri-City Medical Center

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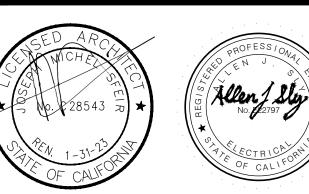
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HCAI APPROVAL STAMP:
HCAI No: S22XXXX-37-00

REV: DESCRIPTION:

GENERAL NOTES, LEGEND, AND SHEET INDEX

PROJECT TITLE:
TCMC DECONTAMINATION SINK

CHECKED BY:

SCALE:

10/28/22

OF

SPECIFICATIONS

- 1. THE "GENERAL CONDITIONS" ARE HEREBY MADE A PART OF THIS SECTION. THE WORDS "SHALL BE" ARE ASSUMED INTO EACH PARAGRAPH. THE WORK "PROVIDE" AS NOTED HEREIN AND ON THE DRAWINGS SHALL MEAN "FURNISH, INSTALL AND CONNECT".
- 2. SCOPE: UNDER THIS HEADING IS INCLUDED LABOR, MATERIALS, EQUIPMENT AND APPLIANCES REQUIRED TO COMPLETE THE ELECTRICAL

3. SPECIAL REQUIREMENTS

- A. WORK AND MATERIALS IN FULL ACCORDANCE WITH THE 2019 RULES AND REGULATIONS OF THE CALIFORNIA ELECTRICAL CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 3, THE NATIONAL FIRE CODE, AND OTHER APPLICABLE STATE AND LOCAL LAWS AND REGULATIONS. KEEP A COPY OF ALL APPLICABLE CODES AVAILABLE AT THE JOB SITE AT ALL TIMES WHILE PERFORMING WORK UNDER THIS SECTION. NOTHING IN PLANS OR SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE MOST STRINGENT OF CODES. SHOULD ANY CHANGES BE NECESSARY IN THE DRAWINGS OR SPECIFICATIONS TO MAKE THE WORK COMPLY WITH THESE REQUIREMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO BID.
- B. INTENT OF PLANS AND SPECIFICATIONS
- 1) THIS SPECIFICATION AND ATTENDANT DRAWINGS ARE INTENDED TO COVER A COMPLETE INSTALLATION OF SYSTEMS. THE OMISSION OF EXPRESSED REFERENCE TO ANY ITEM OF LABOR OR MATERIAL FOR THE PROPER EXECUTION OF THE WORK IN ACCORDANCE WITH PRESENT PRACTICE OF THE TRADE SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH ADDITIONAL LABOR AND MATERIALS.
- 2) REFER TO THE DRAWINGS AND SHOP DRAWINGS OF OTHER TRADES FOR ADDITIONAL DETAILS WHICH AFFECT THE PROPER INSTALLATION OF THIS WORK. DIAGRAMS AND SYMBOLS SHOWING ELECTRICAL CONNECTIONS ARE DIAGRAMMATIC ONLY. WIRING DIAGRAMS DO NOT NECESSARILY SHOW THE EXACT PHYSICAL ARRANGEMENT OF THE EQUIPMENT.
- 3) BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL FEATURES OF THE BUILDING AND SITE WHICH MAY AFFECT THE EXECUTION OF THE WORK. NO EXTRA PAYMENT WILL BE ALLOWED FOR FAILURE TO OBTAIN THIS INFORMATION.
- 4) IF THERE ARE OMISSIONS OR CONFLICTS BETWEEN THE DRAWINGS AND SPECIFICATIONS, CLARIFY THESE POINTS WITH THE ARCHITECT BEFORE SUBMITTING A BID.

4. GENERAL REQUIREMENTS

- A. COORDINATE ELECTRICAL INSTALLATION WITH OTHER TRADES.
- B. GUARANTEE ALL MATERIALS AND EQUIPMENT FOR ONE YEAR FROM THE DATE OF ACCEPTANCE BY OWNER.
- C. GROUND ALL EQUIPMENT AND SERVICES IN ACCORDANCE WITH APPLICABLE CODES AND AS INDICATED ON DRAWINGS.
- D. CUT AND PATCH THE CONSTRUCTION WORK AS REQUIRED FOR PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL MATCH THE SURROUNDING WORK TO THE SATISFACTION OF THE ARCHITECT.
- E. ALL CONDUIT PENETRATIONS OF FIRE RATED WALLS, FLOORS AND ROOF SHALL BE FIRED STOPPED. FIRE STOP MATERIALS SHALL BE A TESTED ASSEMBLY LISTED BY AB APPROVED
- F. PROVIDE AS-BUILT DRAWINGS WITH ALL CHANGES INDICATED IN RED INK. PROVIDE DIMENSIONS OF THE LOCATION OF UNDERGROUND RUNS AND STUB OUTS.
- 5. GENERAL: ALL NEW MATERIAL SHALL CONFORM WITH A.N.S.I., I.E.E.E., N.E.M.A. AND SHALL BE U.L. LABELED.

6. IDENTIFICATION

- A. EQUIPMENT NAMEPLATES
- 1) PANELBOARDS, SWITCHBOARDS, TRANSFORMERS, TERMINAL CABINETS, CIRCUIT BREAKERS, DISCONNECT SWITCHES, STARTERS, RELAYS, TIME SWITCHES, CONTACTORS, PUSHBUTTON CONTROL STATIONS, AND OTHER APPARATUS USED FOR THE OPERATION OR CONTROL OF FEEDERS. CIRCUITS, APPLIANCES, OR EQUIPMENT SHALL BE PROPERLY IDENTIFIED BY MEANS OF DESCRIPTIVE NAMEPLATES OR TAGS PERMANENTLY ATTACHED TO THE APPARATUS AND WIRING. DISTRIBUTION EQUIPMENT AND PANELBOARD NAMEPLATES SHALL INDICATE EQUIPMENT DESIGNATION USED ON DRAWINGS IN 3/8" LETTERS AND SHALL INDICATE DESIGNATION OF SERVING EQUIPMENT IN 3/16" LETTERS.
- 2) ALL NAMEPLATES SHALL BE ENGRAVED LAMINATED PHENOLIC. SHOP DRAWINGS WITH DIMENSIONS AND FORMAT SHALL BE SUBMITTED TO THE ARCHITECT BEFORE INSTALLATION. ATTACHMENT TO EQUIPMENT SHALL BE WITH ESCUTCHEON PINS, RIVETS, SELF-TAPPING SCREWS OR MACHINE SCREWS. SELF-ADHERING OR ADHESIVE BACKED NAMEPLATES SHALL NOT BE USED.
- 3) PROVIDE WHITE-ON-BLACK LAMINATED PLASTIC NAMEPLATES ENGRAVED IN MINIMUM 1/4" HIGH LETTERS TO CORRESPOND WITH THE DESIGNATIONS ON THE DRAWINGS. PROVIDE OTHER OR ADDITIONAL INFORMATION ON NAMEPLATES WHERE INDICATED.
- B. PLATES: ALL COVER AND DEVICE PLATES SHALL BE FURNISHED WITH ENGRAVED OR ETCHED DESIGNATIONS UNDER ANY ONE OF THE FOLLOWING CONDITIONS (MINIMUM CHARACTER SIZE NOT LESS THAN 0.188 INCH. ENGRAVING SHALL INDICATE CIRCUITS AND EQUIPMENT CONTROLLED OR CONNECTED):
- 1) MORE THAN TWO DEVICES UNDER A COMMON COVERPLATE.
- LOCK SWITCHES.
- 3) PILOT SWITCHES.
- 4) SWITCHES IN LOCATIONS FROM WHICH THE EQUIPMENT OR CIRCUITS CONTROLLED CANNOT BE READILY SEEN.

AS HEATER CONTROLS, ETC.

- 5) MANUAL MOTOR STARTING SWITCHES.
- 6) WHERE SO INDICATED ON THE DRAWINGS. 7) AS REQUIRED ON ALL CONTROL CIRCUIT SWITCHES, SUCH
- 8) RECEPTACLES OTHER THAN STANDARD 15 AMPERE 120 VOLT DUPLEX RECEPTACLES; SHALL INDICATE CIRCUIT VOLTAGE, AMPERE, PHASE AND SOURCE CIRCUIT NUMBER.
- 9) IN ADDITION TO ENGRAVING REQUIREMENTS ABOVE ALL PLATES FOR RECEPTACLES AND SWITCHES SHALL BE ENGRAVED WITH 1/4" HIGH LETTERING INDICATING PANELBOARD DESIGNATION AND CIRCUIT NUMBER. LETTERING SHALL BE BLACK FOR NORMAL CIRCUITS AND RED FOR EMERGENCY (ESSENTIAL) CIRCUITS.

C. WIRE AND CABLE IDENTIFICATION

- 1) PROVIDE IDENTIFICATION ON ALL INDIVIDUAL WIRE AND CABLE INCLUDING SIGNAL SYSTEMS, FIRE ALARM, ELECTRICAL POWER SYSTEMS (EACH INDIVIDUAL PHASE, NEUTRAL AND GROUND), EMPTY CONDUIT PULL ROPES, AND CONTROL CIRCUIT.
- 2) IDENTIFICATION SHALL BE PROVIDED AT EACH TERMINATION LOCATION, SPLICE LOCATION, PULLBOX, JUNCTION BOX AND **EQUIPMENT ENCLOSURE**
- a. INDIVIDUAL WIRE AND CABLE SHALL BE PROVIDED WITH WATER AND OIL RESISTANT, FLEXIBLE, PRESSURE SENSITIVE MACHINE EMBOSSED PLASTIC TAGS THAT WRAP A MINIMUM OF 360 DEGREES AROUND THE WIRE/CABLE DIAMETER. THE ENTIRE TAG SHALL THEN BE COVERED WITH A CLEAR FLEXIBLE WATERPROOF PLASTIC COVER WRAPPED A MINIMUM OF 540 DEGREES AROUND THE WIRE/CABLE DIAMETER AND COMPLETELY COVERING THE IDENTIFICATION.
- b. EACH IDENTIFICATION TAG LOCATION SHALL INDICATE THE FOLLOWING INFORMATION: CIRCUIT NUMBER, CIRCUIT PHASE, SOURCE TERMINATION AND DESTINATION TERMINATION EQUIPMENT NAME (OR OUTLET NUMBER AS APPLICABLE).
- 3) INSTALL IDENTIFICATION AFTER INSTALLATION/PULLING OF WIRE/CABLE IS COMPLETE, TO PREVENT LOSS OR DAMAGE TO THE IDENTIFICATION.

D. CONDUIT IDENTIFICATION:

- 1) PROVIDE IDENTIFICATION ON ALL CONDUITS RUNS OVER 10 FOOT IN LENGTH INCLUDING SIGNAL, COMMUNICATION, FIRE ALARM, ELECTRICAL POWER SYSTEMS (FEEDERS AND BRANCH CIRCUIT), CONTROL SYSTEMS AND EMPTY CONDUITS.
- 2) IDENTIFICATION SHALL BE PROVIDED ON CONDUITS WITHIN 10 FOOT OF TERMINATION LOCATIONS, EQUIPMENT, PULLBOXES, JUNCTION BOXES AND OUTLET BOXES AND AT 20 FOOT MAXIMUM CENTERS FOR THE ENTIRE CONDUIT RUN. IDENTIFICATION SHALL BE LOCATED SO MARKERS ARE VISIBLE FROM NORMAL VIEWING ANGELS.
- 3) IDENTIFICATION METHOD SHALL BE BLACK FELT TIP LEGIBLY HANDWRITTEN.
- 4) EACH IDENTIFICATION METHOD SHALL INCLUDE THE FOLLOWING INFORMATION: SYSTEM TYPE, SERVING EQUIPMENT, CIRCUIT, VOLTAGE, DESTINATION EQUIPMENT OR OUTLETS, (I.E: "CRITICAL-2CHDB-4-480V-3CHDE" OR "FA-CM2N-12-24V-TC10").
- 5) IDENTIFICATION MAY BE OMITTED ON CONDUITS LOCATED INSIDE WALLS.
- E. CARDHOLDERS AND CARDS SHALL BE PROVIDED FOR CIRCUIT IDENTIFICATION IN PANELBOARDS. CARDHOLDERS SHALL CONSIST OF A METAL FRAME RETAINING A CLEAR PLASTIC COVER PERMANENTLY ATTACHED TO THE INSIDE OF PANEL DOOR. LIST OF CIRCUITS SHALL BE TYPEWRITTEN ON CARD. CIRCUIT DESCRIPTION SHALL INCLUDE NAME OR NUMBER OF CIRCUIT, AREA, AND CONNECTED LOAD.
- F. JUNCTION AND PULL BOXES SHALL HAVE COVERS STENCILED WITH BOX NUMBER WHEN SHOWN ON THE DRAWINGS, OR CIRCUIT NUMBERS ACCORDING TO PANEL SCHEDULE. DATA SHALL BE LETTERED IN A CONSPICUOUS MANNER WITH A COLOR CONTRASTING TO FINISH

CONDUIT

- A. ELECTRICAL METALLIC TUBING SHALL BE GALVANIZED OR SHERARDIZED. FITTINGS SHALL BE SET SCREW OR GLAND RING COMPRESSION TYPE WITH INSULATED THROATS.
- B. FLEXIBLE GALVANIZED STEEL CONDUIT SHALL BE USED IN MAXIMUM LENGTHS UP TO 6 FEET FOR FINAL CONNECTIONS ONLY TO OUTLETS AND FIXTURES MOUNTED IN T-BAR TYPE CEILINGS. FITTINGS SHALL BE T&B #3110 OR #3139 SERIES. PROVIDE CODE SIZED GROUND WIRE.
- C. LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL BE USE FOR FINAL CONNECTIONS TO MEDICAL EQUIPMENT, HVAC EQUIPMENT AND TRANSFORMERS. FITTINGS SHALL BE T&B #5331 OR 5341-GR SERIES. PROVIDE CODE SIZED GROUND WIRE.
- D. EXPOSED CONDUIT BELOW 8 FEET SHALL BE RIGID GALVANIZED STEEL WITH THREADED GALVANIZED STEEL CONNECTORS AND TERMINATIONS. RIGID GALVANIZED STEEL IN CONTRACT WITH EARTH SHALL BE PVC COATED TYPE.
- E. SCHEDULE 40 PVC CONDUIT SHALL BE USED FOR ALL CONDUIT BELOW GRADE. PROVIDE CODE SIZED GROUND CONDUCTOR.

8. OUTLET AND JUNCTION BOXES

- A. OUTLET AND JUNCTION BOXES USED IN CONCEALED WORK SHALL BE GALVANIZED OR SHERARDIZED, ONE-PIECE, PRESSED STEEL, KNOCK-OUT TYPE SIZED IN ACCORDANCE WITH THE CODE FOR THE NUMBER OF CONDUCTORS OR THE NUMBER AND SIZE OF CONDUIT ENTERING THE BOX, BUT SHALL NOT BE LESS THAN 4" SQUARE AND 1-1/2" DEEP EXCEPT AS NOTED. PLASTER RINGS SHALL BE PROVIDED FOR ALL FLUSH MOUNTED BOXES.
- B. OUTLET AND JUNCTION BOXES USED OUTSIDE OF BUILDING, ON ROOF, OR IN LANDSCAPED AREAS SHALL BE CAST ALUMINUM AS MANUFACTURED BY CROUSE-HINDS TYPE "FS" OR EQUAL WITH CONDUIT HUBS AS REQUIRED.

9. WIRE AND CABLE

- A. CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS.
- B. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID AND #8 AWG AND LARGER SHALL BE STRANDED.
- C. CONDUCTORS SHALL HAVE TYPE THHN/THWN INSULATION.
- D. FIRE ALARM SYSTEM CONDUCTORS SHALL BE TYPE AS RECOMMENDED BY MANUFACTURER OR SYSTEM.

10. RECEPTACLES:

- A. RECEPTACLES SHALL BE UNDERWRITERS LABORATORIES LISTED HOSPITAL GRADE RECEPTACLES CONNECTED TO NORMAL CIRCUITS SHALL HAVE WHITE OR IVORY FINISH. AS SELECTED BY OWNER. RECEPTACLES ON EMERGENCY CIRCUITS SHALL HAVE RED
- 1) DUPLEX CONVENIENCE RECEPTACLES SHALL BE HEAVY DUTY GROUNDING TYPE 120 VOLT 15 AMPERE WITH TWO CURRENT CARRYING CONTACTS AND ONE GROUNDING CONTACT WHICH IS INTERNALLY CONNECTED TO THE FRAME. OUTLETS SHALL ACCOMMODATE STANDARD PARALLEL BLADE CAP AND BE SIDE WIRED.
- a. HUBBELL: #8200 (OR EQUAL REVIEWED WITH NO EXCEPTIONS)
- 2) DUPLEX 20 AMPERE CONVENIENCE OUTLETS SAME AS 15 AMPERE EXCEPT AMPACITY SHALL BE USED WHERE DUPLEX RECEPTACLE IS SUPPLIED BY SEPARATE 20-AMEPRE
- a. HUBBELL: #8300 (OR EQUAL REVIEWED WITH NO EXCEPTIONS)
- 3) GROUND FAULT CONVENIENCE RECEPTACLES PROVIDE SEPARATE GROUND FAULT RECEPTACLE AT EACH LOCATION INDICATED ON DRAWINGS.
- a. HUBBELL: #GF8300 (OR EQUAL REVIEWED WITH NO EXCEPTIONS)
- B. SPECIAL OUTLETS HOSPITAL GRADE CAPACITIES AND TYPES SHALL BE AS INDICATED ON THE DRAWINGS.
- 11. WALL SWITCHES: SHALL BE HUBBELL #1221, (SINGLE POLE), #1222 (2 POLE) AND #1223 (3-WAY, #1557 (SPDT MOMENTARY CONTACT). EQUAL DEVICES REVIEWED WITH NO EXCEPTIONS TAKEN ARE ACCEPTABLE. SWITCHES ON EMERGENCY CIRCUITS SHALL HAVE RED FINISH. SWITCHES ON NORMAL CIRCUITS SHALL HAVE WHITE OR IVORY FINISH, AS SELECTED BY OWNER.

12. PLATES

- A. SHALL BE PASS & SEYMOUR SIERRA SRP LINE FOR ALL NORMAL POWER SWITCHES, NORMAL POWER RECEPTACLES, TELEPHONE AND BLANKED OUTLETS. WHITE OR IVORY, AS SELECTED BY OWNER. EQUAL DEVICES REVIEWED WITH NO EXCEPTIONS TAKEN ARE ACCEPTABLE. EMERGENCY POWER SWITCHES AND RECEPTACLES ARE TO BE RED.
- B. ENGRAVE NORMAL POWER SWITCH AND RECEPTACLE PLATES WITH 1/4"H. BLACK FILLED LETTERING INDICATING CIRCUIT NUMBER AND PANEL DESIGNATION RECEPTACLE OR SWITCH IS CONNECTED TO. EMERGENCY POWER PLATES SHALL BE 1/4" WHITE FILLED LETTERING.

15. PANELBOARDS AND CIRCUIT BREAKERS

- A. WHEN ADDING CIRCUIT BREAKERS IN EXISTING PANELBOARDS. NEW CIRCUIT BREAKERS SHALL BE SAME TYPE AND INTERRUPTING RATING AS EXISTING BREAKERS IN PANEL.
- B. CIRCUIT DIRECTORIES SHALL BE FILLED OUT WITH TYPE WRITTEN LETTERING CLEARLY IDENTIFYING EACH CIRCUIT AS TO USE AND LOCATION.

C. NEW PANELBOARDS SHALL BE FLUSH OR SURFACE MOUNTING AS INDICATED WITH CIRCUIT BREAKERS AS SHOWN ON PANEL SCHEDULE. HINGED LOCKABLE DOOR IN DOOR TRIM, INDEX CARDHOLDERS AND PROPER BUSSING. PANELBOARD MANUFACTURER TO MATCH HOSPITAL STANDARD.

- 1) WHERE INDICATED ON THE DRAWINGS, PANELBOARDS SHAL BE FURNISHED WITH SUBFEED BREAKERS AND/OR LUGS, SPLI BUSSING, CONTACTORS, TIME SWITCHES, RELAYS, ETC., A REQUIRED.
- 2) ALL PANELBOARDS SHALL BE KEYED TO MATCH EXISTING.
- 3) PANELBOARDS 208/120 VOLT, THREE PHASE, 4 WIRE, S/N OR 120/240 VOLT, SINGLE PHASE, 3 WIRE, S/N.
- D. PANELBOARD IDENTIFICATION NAMEPLATE TO BE BLACK WITH WHITE LETTERING FOR NORMAL POWER. OR RED WITH WHITE LETTERING FOR EMERGENCY POWER, TO MATCH HOSPITAL STANDARD.
- E. A LISTED SURGE PROTECTION DEVICE (SPD) TO BE PROVIDED FOR ALL EMERGENCY SYSTEM SWITCHBOARDS, DISTRIBUTION BOARDS, OR PANELBOARDS PER 2016 CEC 700.8.
- 1) SPD SHALL BE INCLUDED AND PROVIDED BY MANUFACTURER.
- 2) SPD TYPE SHALL COMPLY WITH 2016 CEC SECTION 285.
- 16. DISCONNECT SWITCHES: SHALL BE HEAVY DUTY, NEMA 1, 480 VOLT, CLASS RK, FUSIBLE OR NON-FUSIBLE TYPE, AS INDICATED, RATED FOR LOAD SERVED AND QUANTITY OR POLES AS REQUIRED. FUSES SHALL BE BUSSMAN TYPE LPS-RK (277/480 VOLT) OR LPN-RK (120/208 VOLT) SIZED AT 125% OF ACTUAL LOAD.
- 17. WALL DUCT
- A. GENERAL
- 1) ALL COMPONENTS OF THE DUCT ASSEMBLY SHALL BE MANUFACTURED IN ACCORD WITH THE STANDARDS OF UNDERWRITERS' LABORATORIES, INC. DUCTS SHALL BE MANUFACTURED BY SQUARE D OR WALKER.
- 2) THE END OF RUN, DUCT END, SHALL HAVE A STEEL CLOSURE PLATE, OR DUCT TO CONDUIT ADAPTOR (SIZE TO MATCH CONDUIT), AS APPLICABLE.
- 3) DUCTS SHALL PROVIDE A SMOOTH INSIDE SURFACE WITHOUT SHARP PROJECTIONS TO PROTECT CONDUCTORS FROM DAMAGE.
- 4) PROVIDE LONGITUDINAL DIVIDERS, HORIZONTAL TEELS, ELBOWS, CROSSES AND CIRCUIT ISOLATION TUNNELS FOR CROSS OVER CONNECTIONS INSIDE THE DUCTS.
- B. TUBS AND COVERS SHALL BE 14 GAUGE STEEL ROLLER LEVELED WITH A PHOSPHATIZED BAKED ENAMEL FINISH.
- C. PROVIDE TRENCH PARTITIONS TO MAINTAIN SEPARATION OF HIGH AND LOW POTENTIAL POWER SYSTEMS, SIGNAL SYSTEMS AND CONTROL SYSTEM SERVICES.
- D. THE COVER PLATES SHALL BE A MAXIMUM OF 2' 0" LONG. COVER PLATES SHALL BE HELD IN PLACE BY SCREWS.
- E. VERTICAL ELBOWS SHALL BE AN INTEGRAL PART OF A COVER PLATE, ELBOWS, OFFSETS, COVER PLATES, GROMMETS, END CLOSURES, RISERS AND CONNECTORS SHALL BE PROVIDED FOR A COMPLETE INSTALLATION.
- F. THE ENTIRE DUCT SYSTEM SHALL PROVIDE AN ELECTRICALLY CONTINUOUS GROUND PATH. CONNECTIONS BETWEEN DUCTS. JUNCTION BOXES. AND CONDUIT FITTINGS SHALL PROVIDE A POSITIVE GROUNDING PATH.
- G. PROVIDE NOT LESS THAN (1) #8 AWG (GREEN THHN) CONTINUOUS COPPER
- H. ALL POWER WIRE SHALL BE RUN THROUGH POWER FLOOR DUCT AND SHALL NOT BE MIXED WITH OTHER SYSTEMS.
- I. POWER WIRE INSTALLED IN FLOOR DUCT SHALL BE #10 (THHN/THWN) MINIMUM OR LARGER AS NOTED ON DRAWING.
- J. CIRCUIT WIRES SHALL BE TAGGED WITH CIRCUIT I.D. NUMBERS AT EACH JUNCTION POINT AND EACH SERVICE ENTRANCE OR EXIT.
- K. PROVIDE SEPARATE BARRIERED COMPARTMENTS FOR DIFFERENT POWER BRANCHES (NORMAL, CRITICAL, LIFE SAFETY OR EQUIPMENT) AND LOW VOLTAGE SYSTEMS.
- L. PAINT WALL DUCT TO MATCH WALL FINISH.

GROUNDWIRE IN ALL DUCT RUNS.

18. GENERAL EXECUTION

A. CONDUIT:

- 1) PROVIDE JUNCTION OR PULLBOXES WHERE REQUIRED FOR PULLING CONDUCTORS DUE TO EXCESSIVE NUMBER OF BENDS OR LENGTH OF CONDUIT RUNS.
- 2) RUN EXPOSED CONDUITS AT RIGHT ANGLES OR PARALLEL TO STRUCTURAL MEMBERS, WALLS, FLOOR OR CEILING.
- 3) PROVIDE EXPANSION COUPLINGS WHERE CONDUITS CROSS EXPANSION JOINTS OR FOR CONTINUOUS RUNS IN EXCESS OF 100' EXCEPT WHEN EMBEDDED IN CONCRETE.
- 4) REROUTE CONDUIT WHERE NECESSARY TO CLEAR STRUCTURAL AND MECHANICAL OBSTRUCTIONS.
- 5) DISCONNECT SWITCHES SHALL BE LOCATED AS REQUIRED TO PROVIDE CODE REQUIRED CLEARANCES AND ACCESS.
- 6) CONDUIT SHALL BE SUPPORTED WITH PIPE HANGERS AND THREADED STEEL RODS ATTACHED TO CONCRETE STRUCTURE ABOVE. PROVIDE LATERAL AND LONGITUDINAL SWAY
- 7) CONDUIT STUBBED OUT IN CEILING SPACES SHALL BE
- TERMINATED IN AN INSULATED THROAT BUSHING.
- B. INSTALLATION OF CONDUCTORS

100% ELECTROLYTIC COPPER.

BRACING.

HANDHOLES.

- 1) CONDUCTORS SHALL BE CONTINUOUS BETWEEN OUTLETS OR JUNCTION BOX AND NO SPLICES SHALL BE MADE EXCEPT IN OUTLET BOXES, PULLBOXES, PANELBOARD CUTTERS OR
- 2) ALL JOINTS, SPLICES AND TAPS #10 AND SMALLER (INCLUDING FIXTURE PIGTAILS) CONNECTED WITH "IDEAL" WING NUTS OR SCOTCHLOK CONNECTORS, #8 AND LARGER CONNECTED WITH SOLDER-LESS CONNECTOR OR
- 3) OIL OR GREASE SHALL NOT BE USED WHEN PULLING CONDUCTORS. APPROVED CABLE LUBRICANTS ONLY.
- 4) TRAIN CONDUCTORS NEATLY IN PANELS, CABINETS, AND EQUIPMENT. RETIGHTEN PRESSURE TYPE LUGS ON PANELS AND EQUIPMENT AFTER LOAD HAS BEEN APPLIED. ALL BRANCH CIRCUITS SHALL BE TAGGED IN THE PANELBOARDS, IN ALL GUTTERS AND IN ALL JUNCTION BOXES IDENTIFYING THE CIRCUITS. THE METHOD OF TAGGING SHALL BE WITH ADHESIVE TYPE MARKER EQUAL TO "BRADY".

- D. GROUNDING
- GENERAL
- a. THE DRAWINGS DO NOT SHOW ALL THE BONDING CONNECTION POINTS OR CONDUCTOR RUNS. PROVIDE ALL MATERIAL AND WORK REQUIRED FOR A COMPLETE
- b. ALL CONDUCTOR RACEWAYS SHALL HAVE A SEPARATE GREEN EQUIPMENT GROUND CONDUCTOR INSTALLED IN THE RACEWAY WITH THE CIRCUIT CONDUCTORS. THE RACEWAY SHALL NOT BE USED AS THE ONLY GROUND RETURN PATH. THE GROUND CONDUCTOR IN EACH RACEWAY SHALL SIZED AS FOLLOWS:
- (1) POWER CIRCUIT RACEWAYS

PROTECTION SIZE

2501 TO 4000 AMP

FEEDERS, SUBFEEDERS MINIMUM GROUND WIRE & BRANCH CIRCUIT SIZE IN EACH RACEWAY

500 MCM

15 AMP #12 20 AMP #12 30 TO 60 AMP #10 70 TO 100 AMP 101 TO 200 AMP 201 TO 400 AMP 401 TO 600 AMP 601 TO 800 AMP 801 TO 1000 AMP 1001 TO 1200 AMP 3/0 1201 TO 1600 AMP 1601 TO 2000 AMP 250 MCM 2001 T0 2500 AMP 350 MCM

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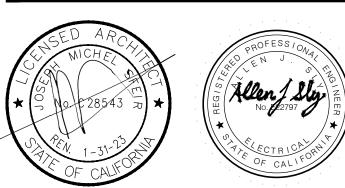
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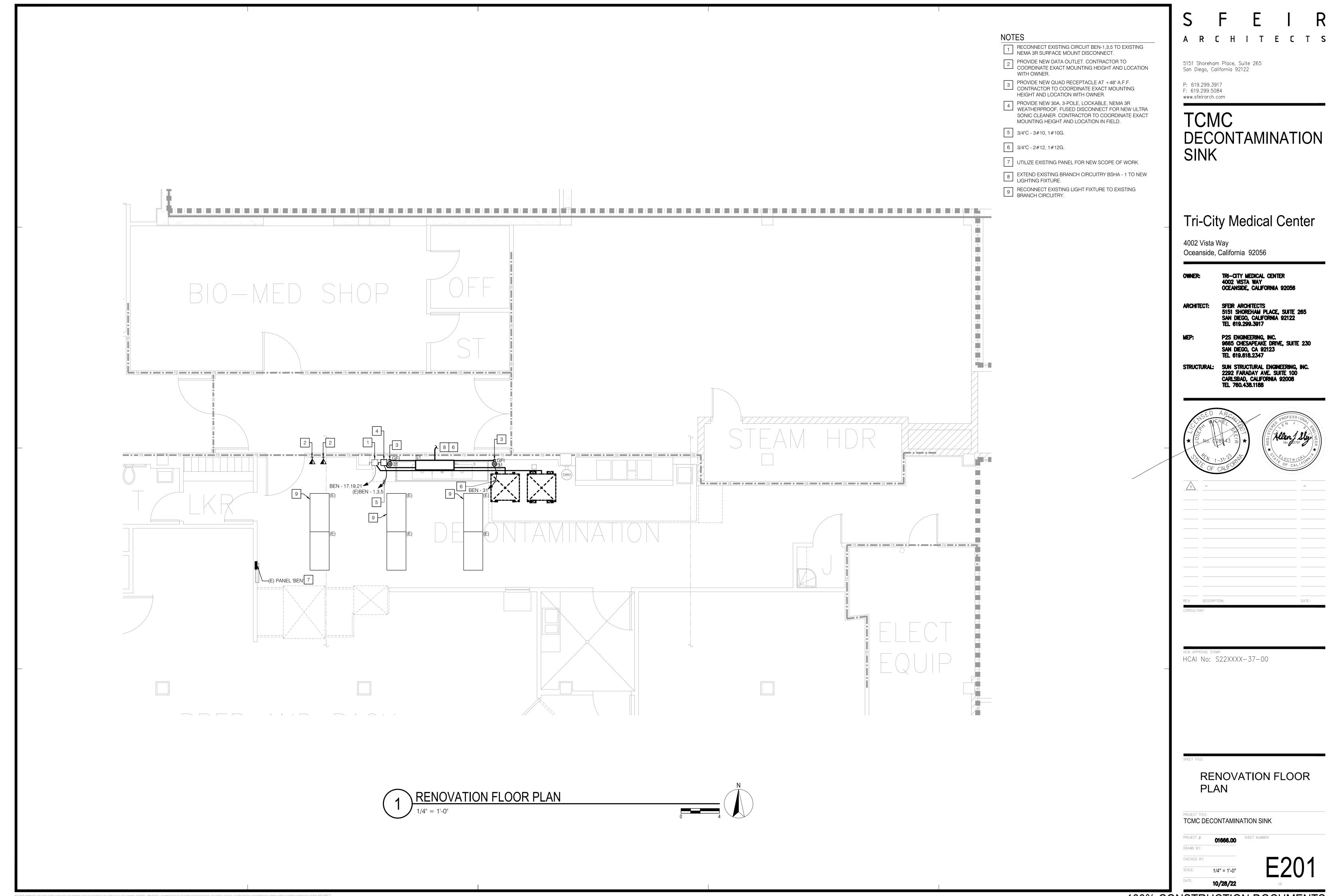
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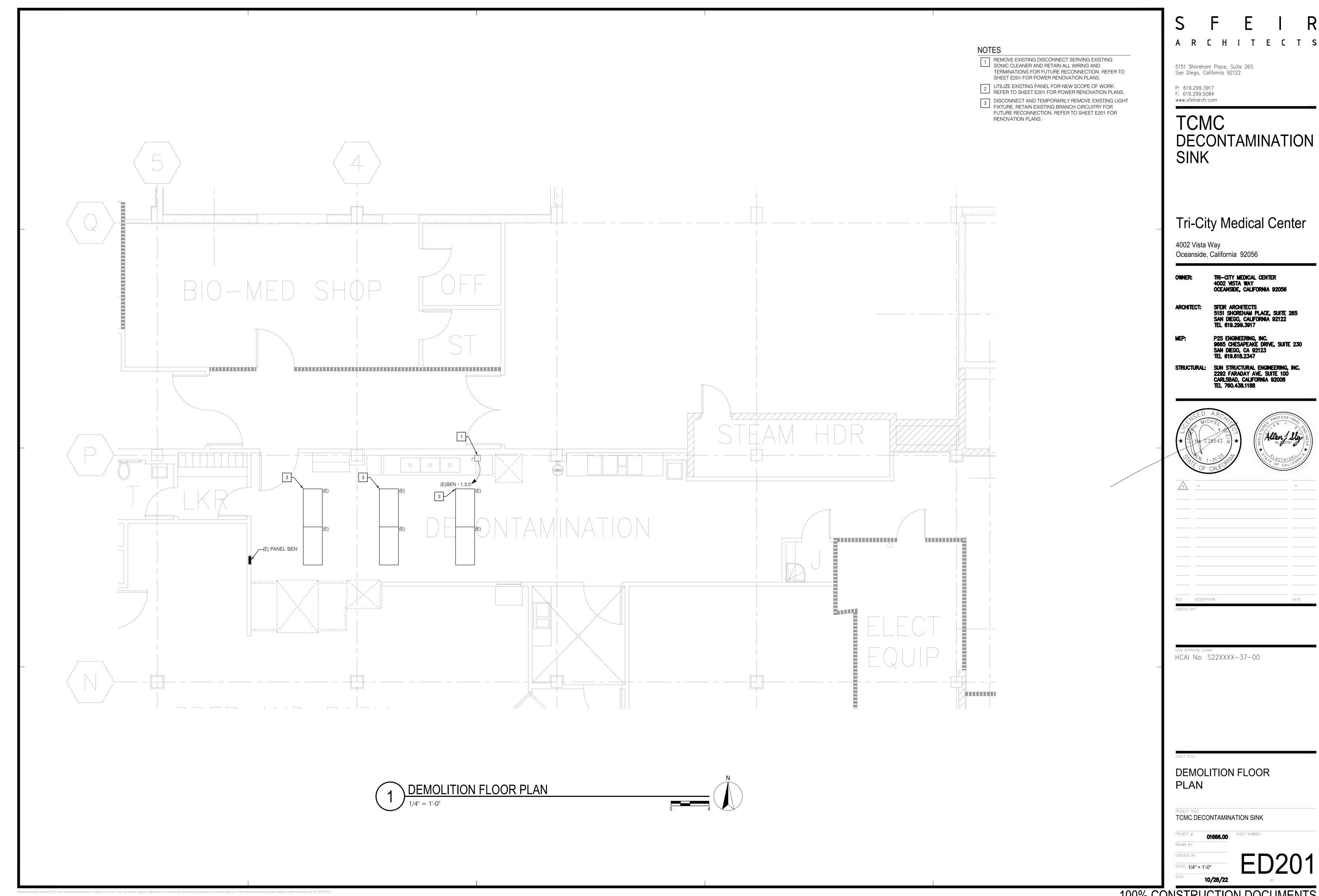
SPECIFICATIONS

TCMC DECONTAMINATION SINK

DRAWN BY:

10/28/22 100% CONSTRUCTION DOCUMENTS





F	PAN	IEL:	(E)BEN												
L			VOLTAGE/PHASE:			208/120 VOLTS 3 PH			3 PH, 4	W	FED FROM:	EEDPB			
F	FLOOR: FIRST FLOOR		BUS AMPS:			225 AMPS					A.I.C. RATING: 10kA				
M	10UN	TING:	RECESSED	MAIN I	BREAKE	R:	MLO								
				BRAN	CH:		EQUIPN	MENT BR	ANCH						
				BKR/			LOAI	D (VA)			BKR/				
(CKT	TYPE	LOAD SERVED	POLE	A	В	С	A	В	C	POLE	LOAD SERVED	TYPE	CKT	
	1		(E) LOAD	30/3							20/1	(E) LOAD		2	
	3		-	-							20/1	(E) LOAD		4	
	5		-	-							20/1	(E) LOAD		6	
	7		(E) LOAD	20/1							40/3	(E) LOAD		8	
	9		(E) LOAD	20/1							-	-		10	
	11		(E) LOAD	20/1							-	-		12	
	13		SPARE	30/2							40/3	(E) LOAD		14	
	15		-	-							-	-		16	
	17	С	ULTRA SONIC CLEANER	30/3			1,930				-	-		18	
$\mathbb{K} \square$	19	С	-	-	1,930						20/1	(E) LOAD		20	
_ [21	C	-	-		1,930					20/1	(E) LOAD		22	
***************************************	23		(E) LOAD	20/1							20/1	SPARE		24	
	25		(E) LOAD	20/1							30/3	(E) LOAD		26	
***************************************	27		(E) LOAD	20/1							-	-		28	
	29		(E) LOAD	20/1							-	-		30	
	31	R	RM.0-032 QUAD RECEPTS.	20/1	1,000						20/1	SPARE		32	
	33		SPARE	20/1							20/1	SPARE		34	
	35		SPARE	20/1							20/1	SPARE		36	
***************************************	37		SPARE	20/1							20/3	(E) LOAD		38	
	39		SPARE	20/1							-	-		40	
	41		SPARE	20/1							-	-		42	
L	OAD TY	YPE KEY:		CO	NNECTED	(VA)	DEMAND	FACTOR	DE	MAND (V	A)	LOAD SUMMARY:			
N	= NON	N-CONTINU	ous		0		100	0%		0		TOTAL PHASE A	2,930	VA	
С	= CON	NTINUOUS			5,790		129	5%		7,238		TOTAL PHASE B	1,930	VA	
R	= REC	CEPTACLE			1,000		PER AR	T. 220.44		1,000		TOTAL PHASE C	1,930	VA	
L	= LIGH	HTING			0		12:	5%		0					
M	I = MO	TOR			0		100	0%		0		TOTAL CONNECTED LOAD:	#NAME?	VA	
K	= KITC	CHEN	QUANTITY: 0		0		0'	%		0		TOTAL DEMAND LOAD:	8,238	VA	
E	= ELE	VATOR	QUANTITY: 0		0		0'	%		0		LINE-TO-LINE VOLTAGE:	208	V	
25	5% OF	LARGEST N	NOTOR							0		SPARE CAPACITY:	0%		
S	= SUB-	-FEED PANE	EL(S)				<u> </u>					TOTAL DEMAND AMPS:	23	Α	

LOAD SUMMARY:(E) BEN			
72-HR METER READING x 1.25	=	29.3	KVA
11/16/2022-11/19/2022			
REMOVED LOAD	=	0.00	KVA
ADDED LOAD	=	8.20	KVA
TOTAL LOAD (KVA)	=	37.50	KVA
TOTAL LOAD (A)	=	104.2	Α
MAIN BUS RATING	=	225	Α

LOAD SUMMARY:(E) EEDPB			
72-HR METER READING x 1.25 11/16/2022-11/19/2022	=	88.5	KVA
REMOVED LOAD	=	0.00	KVA
ADDED LOAD	=	8.20	KVA
TOTAL LOAD (KVA)	=	96.70	KVA
TOTAL LOAD (A)	=	268.6	Α
MAIN BUS RATING	=	1200	A

PANEL SCHEDULE & LOAD SUMMARIES

NO SCALE

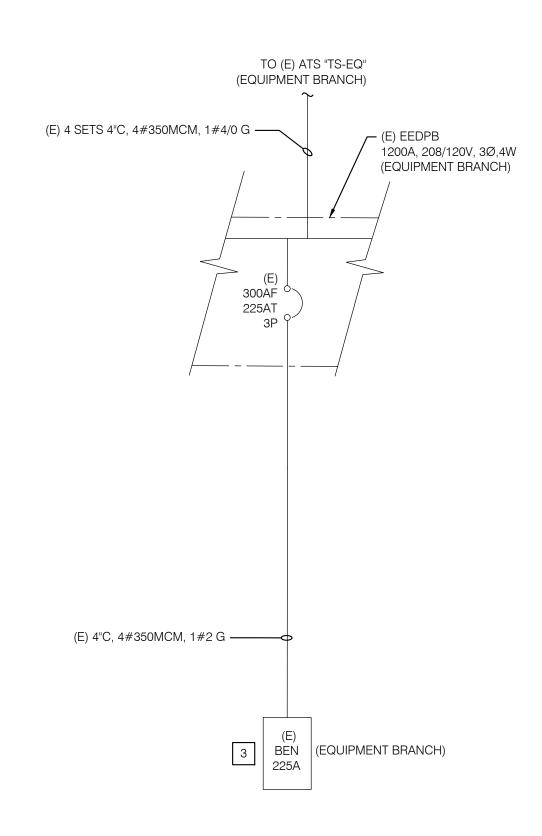
NOTES

- 1 REPLACE EXISTING 20A,1-P BREAKERS WITH NEW 30A,3-P BREAKER. CONTRACTOR TO MATCH MANUFACTURER AND AIC RATINGS OF EXISTING CIRCUIT BREAKERS.
- UTILIZE EXISTING 20A,1-P BREAKER FOR NEW LOADS. REFER TO SHEET E201 FOR SCOPE OF WORK.
- UTILIZE EXISTING PANEL FOR NEW LOAD. REFER TO PANEL SCHEDULE FOR SCOPE OF WORK.

GENERAL LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	TOTAL		LAMPS		VOLTAGE	MTG.	MANUFACTURER	
		V-A	NO.	V-A	TYPE				
S1	WET LOCATION LISTED SURFACE MOUNTED VOLUMETRIC LED FIXTURE.	28	-	28	LED	U	S	KURTZON CLEANROOM KL CORNER MOUNT KL-COR-1-40-840-UNV	
	GENERAL NOTES:							ABBREVIATIONS:	
1.	ALL LUMINARIES SHALL MATCH EXISTING FIXTURE COLOR TEMPERATURE.							P = PENDANT R = RECESSED S = SURFACE W = WALL PO = POLE	
1	KEY NOTES: PROVIDE COMPLETE WITH ALL MOUNTING HARDWARE REQUIRED FOR A COMPLETE WITH ALL MOUNTING HARDWARE WITH ALL MOUNTING WITH ALL M	TE INICTALLA	TION					TO - TOLL	
	PROVIDE COMPLETE WITH ALL MOUNTING HARDWARE RECURRED FOR A COMPLE	I E IIVISTALLA	11()1/1						

LIGHTING FIXTURE SCHEDULE



PARTIAL SINGLE LINE DIAGRAM

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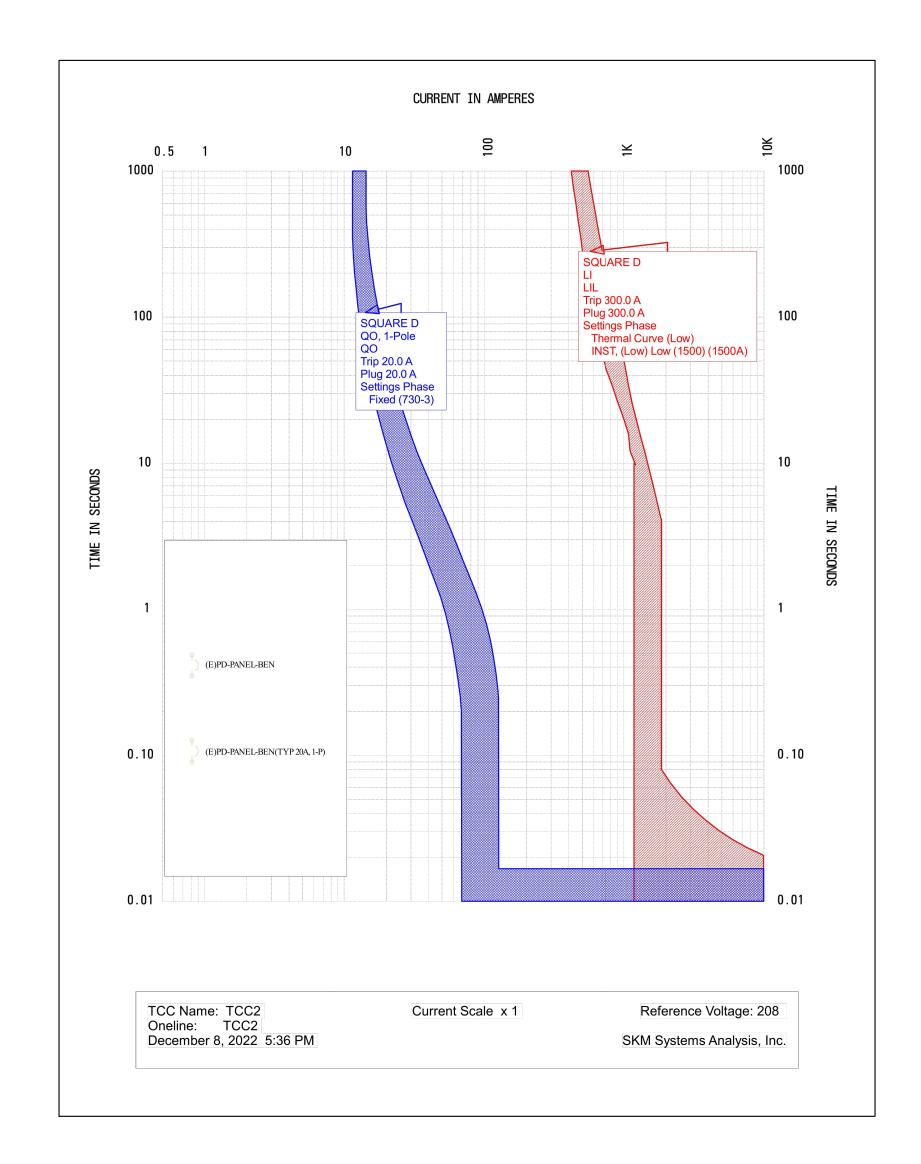
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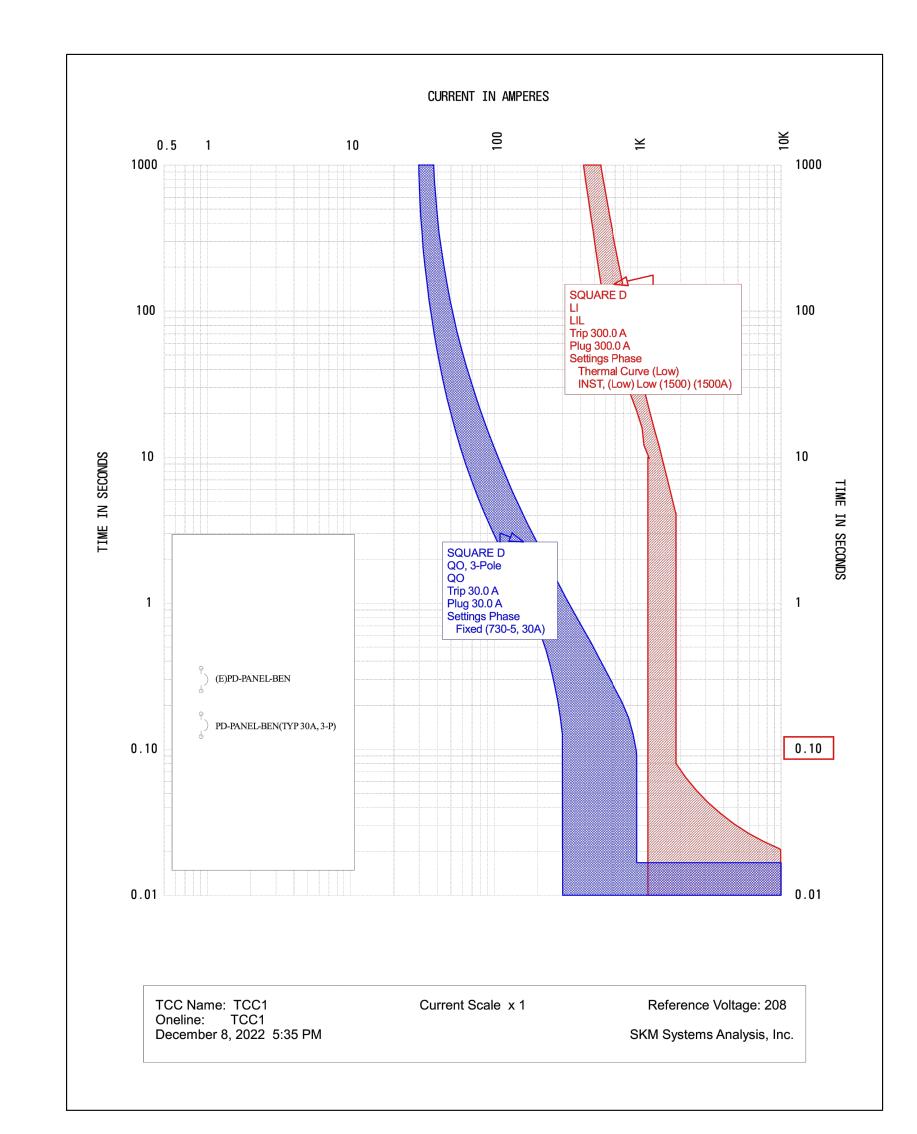
PARTIAL SLD, PANEL SCHEDULE & LOAD SUMMARIES

TCMC DECONTAMINATION SINK

10/28/22



TIME CURRENT CURVE - 2



TIME CURRENT CURVE - 1

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REV: DESCRIPTION:

HCAI No: S22XXXX-37-00

TIME CURRENT **CURVES**

TCMC DECONTAMINATION SINK

DRAWN BY: 10/28/22

ABBREVIATIONS LEGEND POUNDS PER SQUARE INCH DESCRIPTION RI&C ROUGH-IN AND CONNECT SINK, SEWER, SOIL **NOTE CALLOUT** ABOVE SOV SHUT-OFF VALVE SQ **ABOVE CEILING SQUARE** DETAIL CALLOUT AFF ABOVE FINISHED FLOOR SANITARY - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN AFG T/A TO ABOVE ABOVE FINISHED GRADE T/B TO BELOW BELOW BACKFLOW PREVENTER TRAP PRIMER BFP MECHANICAL EQUIPMENT CALLOUT, SEE MECHANICAL PLANS FOR TYPICAL **BELOW GRADE EXACT LOCATION AND REQUIREMENTS BELOW FLOOR** UNDERGROUND BOTTOM UON UNLESS OTHERWISE NOTED BALL VALVE URINAL SECTION CALLOUT CAST IRON SANITARY VENT **VOLT CAST IRON PIPE** VOLTAGE CLG VTR VENT THRU ROOF CEILING POINT OF CONNECTION COTG CLEAN-OUT TO GRADE WASTE CUBIC WITH POINT OF DISCONNECTION CW **COLD WATER** WCO WALL CLEAN-OUT DEPARTMENT WHA WATER HAMMER ARRESTOR CHANGING PIPE SIZE REFERENCE WILL BE MADE TO ANSI Y1.1, DIAMETER MILITARY STANDARD IN THE EVENT DOWN ABBREVIATIONS NOT MENTIONED HEREIN ARE DRAWING(S) NEW PIPE (SIZE-SERVICE) USED, ABBREVIATIONS, AND OTHER STANDARD **EXISTING** INDUSTRY CONVENTIONS. **EXIST EXISTING EXISTING PIPE/EQUIPMENT** EQUIP **EQUIPMENT** FROM ABOVE DEMOLISHED PIPE/EQUIPMENT / / / / / / / / FROM BELOW INDIRECT WASTE FLOOR CLEAN-OUT FLOOR DRAIN SANITARY SEWER/WASTE UNDERGROUND (SS) FINISHED FLOOR FLOOR SINK SANITARY SEWER/WASTE ABOVEGROUND FEET SANITARY VENT (V) **}-----**GALLONS **GALLONS PER MINUTE** DOMESTIC HOT WATER RETURN (HWR) H&CW HOT AND COLD WATER HDR **HEADER** DOMESTIC HOT WATER SUPPLY (HW) HEIGHT DOMESTIC COLD WATER (CW) **INCHES INDIRECT WASTE** TEMPERED WATER LAVATORY L or LAV **MAXIMUM** TEMPERED WATER RECIRCULATING TWR—— MINIMUM SOFT COLD WATER ≻—SCW—— NATURAL MEDIUM PRESSURE CONDENSATE DRAIN MOUNTED NOT TO SCALE DEIONIZED WATER SUPPLY ____ DIS ____ POINT OF CONNECTION POC POINT OF DISCONNECTION DEIONIZED WATER RETURN ∠——DIR——→ REVERSE OSMOSIS WATER COMPRESSED AIR LABORATORY COMPRESSED AIR NONPOTABLE HOT WATER <u></u>HW — → NONPOTABLE COLD WATER VALVE AT RISE **ELBOW DOWN** PIPE TEE UP & DOWN OR ELBOW UP PIPE TEE DOWN PIPE TEE UP SOLENOID VALVE **GATE VALVE** PRESSURE REDUCING VALVE CHECK VALVE, SWING PLUG VALVE STRAINER, Y-TYPE FLOW METER **BACKFLOW PREVENTER** HOSE BIBB FLOOR DRAIN FLOOR SINK, 1/2 GRATE SHUT-OFF VALVE IN YARDBOX BALANCING VALVE FLOOR CLEANOUT CLEANOUT TO GRADE WALL CLEANOUT WATER HAMMER ARRESTOR TRAP PRIMER

GENERAL NOTES

- 1. ALL WORK SHALL COMPLY WITH THE 2019 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.
- 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.
- 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 NOT LESS THAN 25 FEET FROM ANY AIR INTAKE OR VENT SHAFT. COMPLY WITH CPC SECTION 906.
- 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:
- L, 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 FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 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

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.

POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

- 24. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE
- 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 2019 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 SYSTEM.

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

- 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 AND VENT PIPING SHALL SLOPE AT 2% UNLESS OTHERWISE INDICATED.
- 27. PIPING THROUGH FIRE RATED WALLS SHALL BE PER U.L. FIRE RESISTANCE SYSTEM NO. W1001. SEE ARCHITECTURAL PLANS FOR ALL WALL LOCATIONS.
- 28. REFER TO THE SPECIFICATIONS BOOK FOR ADDITIONAL REQUIREMENTS.

GENERAL NOTES

- 29. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC, AND THE ARCHITECT PRIOR TO ANY INSTALLATION.
- 30. KEEP ALL PIPING FROM LOAD BEARING FOOTINGS. IF UNABLE TO CLEAR FOOTINGS OR GRADE BEAMS, INSTALL PIPING THROUGH PIPE SLEEVES.
- 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 2019 CBC CHAPTER 11A AND/OR 11B. HEIGHTS AND LOCATION OF ALL FIXTURES SHALL BE ACCORDING TO CBC 2019 SECTION 1138A. FIXTURE CONTROLS SHALL COMPLY WITH CBC 2019 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. ALL VENT THROUGH ROOF SHALL BE MINIMUM OF 3 FEET VERTICALLY AND 25 FEET HORIZONTALLY FROM ANY AIR CONDITIONING EQUIPMENT FRESH AIR INTAKES.
- 35. VERIFY WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL FLOOR DRAINS AND FLOOR SINKS.
- 36. FIXTURES SHALL BE PROTECTED DURING CONSTRUCTION FROM ANY DAMAGES. REFINISHED FIXTURES WILL NOT BE ACCEPTABLE UNDER ANY CONDITIONS.
- 37. HOSE BIB WITH VACUUM BREAKER SHALL BE PROVIDED UNDER LAVATORY IN EACH PUBLIC RESTROOM.
- 38. PROVIDE AND INSTALL CHROME ANGLE VALVES ON HOT AND COLD WATER SUPPLY AT EACH PLUMBING FIXTURES.
- 39. ALL WATER FAUCETS SHALL BE PROVIDED WITH CODE APPROVED FLOW RESTRICTORS.
- 40. COVER ALL FLOOR DRAINS, FLOOR SINKS, ROOF AND OVERFLOW DRAINS DURING CONSTRUCTIONS TO PREVENT DEBRIS FROM ENTERING PIPE AND PROTECT GRATES FROM DAMAGES
- 41. COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT FOR AVAILABLE VOLTAGES AT ALL **EQUIPMENT LOCATIONS.**
- 42. COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL TAMPER AND FLOW SWITCH LOCATIONS.
- 43. 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.
- 44. 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 PRIOF TO START WORK.
- 45. 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.
- 46. DIELECTRIC UNION ISOLATOR WITH THREADED CONNECTIONS SHALL BE PROVIDED FOR CONNECTING INCOMPATIBLE
- 47. ALL PLUMBING FIXTURES SHALL BE APPROVED BY OWNER PRIOR TO ORDERING.
- 48. 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.
- 49. 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.
- 50. ALL EXISTING PIPING DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED WITH MATERIALS TO MATCH EXISTING BY THE CONTRACTOR.
- 51. PROVIDE AND INSTALL WATER HAMMER ARRESTORS IN THE FOLLOWING LOCATIONS (ONLY NON-FERROUS ARRESTORS
 - 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 POSSIBLE.
 - B. BETWEEN LAST 2 FIXTURES WHEN 3 OR MORE FIXTURES, OTHER THAN THOSE LISTED IN "A" ABOVE, ARE SERVED
 - 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 ARRESTOR.
- 55. 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.
- 56. 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 2019 CMC SEC. 1201.2. SEE SPECIFICATION FOR OTHER REQUIREMENTS.
- 57. ALL CONNECTIONS TO SITE PIPING SHALL BE DONE BY THE PLUMBING CONTRACTOR.
- 58. CLEANOUTS SHALL BE PROVIDED PER 2019 CPC SECTION 707.0 & 719.0 AND TO THE FOLLOWING LOCATIONS:
- A. AT EACH BASE OF WASTE STACK.

MAY BE INSTALLED IN ANY WATER SYSTEM):

BY A COMMON HEADER.

- B. AT EVERY 100 FT OF STRAIGHT RUN OF HORIZONTAL PIPING
- C. AT EACH AGGREGATE HORIZONTAL CHANGE IN DIRECTION EXCEEDING ONE HUNDRED THIRTY-FIVE (135) DEGREES.
- D. AT EACH HORIZONTAL DRAINAGE PIPE UPPER TERMINAL
- E. BELOW EACH SINK.
- 59. 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.
- 60. ALL PLUMBING FIXTURES AND FITTINGS SHALL MEET CALGREEN MANDATORY REQUIREMENT OF 20% REDUCED FLOW RATE SPECIFIED IN TABLE 5.303.2.3.

SHEET INDEX

DETAILS

P601

GENERAL NOTES, LEGEND, AND SHEET INDEX P002 SCHEDULES AND CALCULATIONS P003 **SPECIFICATIONS** RENOVATION FLOOR PLAN

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TCMC DECONTAMINATION SINK

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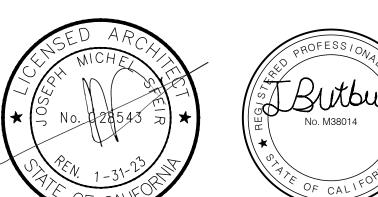
OCEANSIDE, CALIFORNIA 92056

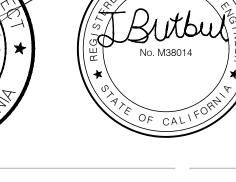
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REV: DESCRIPTION:

HCAI No: S22XXXX-37-00

GENERAL NOTES, LEGEND, AND SHEET **INDEX**

TCMC DECONTAMINATION SINK

DRAWN BY CHECKED BY:

12/14/22

FIXT	URES										
		ROUGH-IN SIZE									
SYMBOL	FIXTURE	W	V V CW HW		HW	DESCRIPTION / REMARKS					
S-1	SINK	2"	1-1/2"	1/2"	1/2"	BLICKMAN MODEL DSHY, STAINLESS STEEL TRIPLE COMPARTMENT SELF RIMMING SINK, HYDRAULIC ADJUSTABLE HEIGHT, SEISMIC ANCHORING WITH BLICKMAN 8" WALL MOUNT FAUCET WITH SC ETERNAS, ADD-ON FAUCET,, 8" SWING NOZZLE, COMPACT SPRING & FLEX HOSE, B-0107 SPRAY VALVE, 6" WALL BRACKET & WRIST ACTION HANDLES. PROVIDE AND INSTALL FLEXIBLE SUPPLY LINES FOR HW, CW, CA & RO, AND TELESCOPING TAILPIECE AND 'P" TRAP FOR EACH COMPARTMENT.					
FS-1	FLOOR SINK	3"	2"	-	-	JAY R. SMITH 3110C 12"X12"X6" DEEP WITH HALF GRATE AND BOTTOM DOME STRAINER. 3" OUTLET. ACID RESISTANT COATED INTERIOR.					
EW-1	EMERGENCY EYEWASH	-	-	1/2"	1/2"	GUARDIAN G1849 COUNTER MOUNTED EYEWASH WITH 9201EW TEMPERING VALVE BELOW COUNTER WITH SUPPLY STOPS.					

NOTE: ALL FIXTURES SHALL BE PROVIDED WITH MINIMUM ROUGH-IN CONNECTIONS AS INDICATED IN THIS SCHEDULE OR PER MANUFACTURERS RECOMMENDATIONS. THE PLUMBING CONTRACTOR SHALL RUN ALL SERVICE LINES, ROUGH-IN AND MAKE FINAL CONNECTIONS TO ALL FIXTURES. PLUMBING CONTRACTOR SHALL FURNISH AND SHALL ALL TRIMS, FLUSH VALVES, TAILPIECES, STRAINERS, P-TRAPS, TRAP ARMS, HOT & COLD WATER STOPS AND FAUCETS AS REQUIRED.

PIPE SCHI	EDULE	
SERVICE	LOCATION	MATERIALS
DOMESTIC WATER	COLD WATER	TYPE "L" COPPER TUBING W/ WROUGHT COPPER SWEAT FITTINGS.
INDUSTRIAL WATER	HOT WATER	SAME AS ABOVE W/ 1" THICK MINERAL FIBER, PREFORMED PIPE INSULATION FOR NPS 1-1/4" AND SMALLER. USE 1-1/2" THICK FOR NPS 1-1/2" AND LARGER.
SANITARY WASTE	ABOVE GRADE	NO-HUB CAST IRON BY "AB&I, TYLER OR CHARLOTTE", LISTED WITH C.I.S.P.I. AND SHALL COMPLY WITH STANDARD 301, HEAVY-DUTY STAINLESS STEEL FOUR BAND COUPLINGS ASTM C 1277.
SANITARY WASTE	BELOW GRADE	NO-HUB CAST IRON BY "AB&I, TYLER OR CHARLOTTE", LISTED WITH C.I.S.P.I. AND SHALL COMPLY WITH STANDARD 301, HEAVY-DUTY STAINLESS STEEL FOUR BAND COUPLINGS ASTM C 1277.
CANITADVA/FAIT	CONCEALED	NO-HUB CAST IRON BY "AB&I, TYLER OR CHARLOTTE", LISTED WITH C.I.S.P.I. AND SHALL COMPLY WITH STANDARD 301, HEAVY-DUTY STAINLESS STEEL FOUR BAND COUPLINGS ASTM C 1277.
SANITARY VENT	EXPOSED	NO-HUB CAST IRON BY "AB&I, TYLER OR CHARLOTTE", LISTED WITH C.I.S.P.I. AND SHALL COMPLY WITH STANDARD 301, HEAVY-DUTY STAINLESS STEEL FOUR BAND COUPLINGS ASTM C 1277.
INDIRECT WASTE	CONCEALED	TYPE "L" COPPER TUBING W/ WROUGHT COPPER SWEAT FITTINGS.
INDIRECT WASTE	EXPOSED	TYPE "L" COPPER TUBING W/ WROUGHT COPPER SWEAT FITTINGS W/ 2MM THICK MANVILLE MICRO-LOCK INSULATION.
COMPRESSED AIR	CONCEALED	TYPE "L" COPPER TUBING W/ WROUGHT COPPER SWEAT FITTINGS.
COMPRESSED AIN	EXPOSED	TYPE "L" COPPER TUBING W/ WROUGHT COPPER SWEAT FITTINGS.
PO Water	CONCEALED	SCHEDULE 40 CPVC 25/50 FLAME SPREAD AND SMOKE DEVELOPMENT RATING, FUSED FITTINGS
RO Water	EXPOSED	SCHEDULE 40 CPVC 25/50 FLAME SPREAD AND SMOKE DEVELOPMENT RATING, FUSED FITTINGS

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REV: DESCRIPTION:

HCAI No: S22XXXX-37-00

SCHEDULES AND CALCULATIONS

PROJECT TITLE:
TCMC DECONTAMINATION SINK

CHECKED BY:

12/14/22

SPECIFICATIONS

1.03 DRAWINGS

1.01 WORK INCLUDED

A. FURNISH ALL LABOR, MATERIALS, SERVICES, TESTING, TRANSPORTATION AND EQUIPMENT NECESSARY FOR THE COMPLETION OF ALL PLUMBING, PIPING AS INDICATED ON DRAWINGS AND SPECIFIED HEREIN. WORK MATERIALS AND EQUIPMENT NOT INDICATED OR SPECIFIED WHICH IS NECESSARY FOR THE COMPLETE AND PROPER OPERATION OF THE WORK OF THIS SECTION IN ACCORDANCE WITH THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS SHALL BE PROVIDED AND INCORPORATED AT NO ADDITIONAL COST TO THE OWNER.

1.02 QUALITY ASSURANCE A. CODE REQUIREMENTS: ALL WORK COVERED BY THIS SECTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE FOLLOWING REGULATIONS:

- 2016 CALIFORNIA PLUMBING CODE. 2016 CALIFORNIA FIRE CODE.
- 2016 CALIFORNIA MECHANICAL CODE. NATIONAL FIRE PROTECTION ASSOCIATION.
- STATE DIVISION OF INDUSTRIAL SAFETY. ANY OTHER LEGALLY CONSTITUTED BODY HAVING JURISDICTION THEREOF.
- NOTHING IN THE SPECIFICATIONS OR DRAWINGS SHALL BE CONSTRUED TO PERMIT DEVIATION FROM THE REQUIREMENTS OF GOVERNING CODES UNLESS. APPROVAL FOR SAID DEVIATION HAS BEEN OBTAINED FROM THE LEGALLY CONSTITUTED AUTHORITIES HAVING JURISDICTION AND FROM THE OWNER'S REPRESENTATIVE.
- A. 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.
- B. THE GENERAL ARRANGEMENT INDICATED ON THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. COORDINATE WITH THE ARCHITECTURAL STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO INSTALLATION OF PIPING FIXTURES AND EQUIPMENT TO VERIFY ADEQUATE SPACE AVAILABLE FOR INSTALLATION OF THE WORK SHOWN. IN THE EVENT A FIELD CONDITION ARISES WHICH MAKES IT IMPOSSIBLE TO INSTALL THE WORK AS INDICATED, SUBMIT, IN WRITING, THE PROPOSED DEPARTURES TO THE ARCHITECT FOR HIS ACCEPTANCE. ONLY WHEN ARCHITECT'S ACCEPTANCE IS GIVEN, IN WRITING, SHALL CONTRACTOR PROCEED WITH INSTALLATION OF THE WORK.
- SPECIAL NOTE: SHOULD THE CONTRACTOR MAKE CHANGES IN THE INSTALLATION DIFFERING FROM WHAT IS INDICATED ON THE CONTRACT DRAWINGS AND NOT NECESSITATED DUE TO FIELD CONDITIONS AS INDICATED HEREINABOVE, THE CONTRACTOR SHALL BE REQUIRED TO RE-INSTALL THE WORK TO COMPLY WITH WHAT HAS BEEN INDICATED ON THE CONTRACT DRAWINGS. SHOULD IT BE IMPOSSIBLE TO RE-INSTALL THE WORK AND THE INSTALLATION IS IN ACCORDANCE WITH ALL GOVERNING AUTHORITIES, THE ARCHITECT MAY PERMIT THE INSTALLATION TO REMAIN. HOWEVER, ALL COSTS INCURRED TO REVISE THE CONTRACT DRAWINGS BY THE ENGINEER FOR RESUBMITTAL TO THE BUILDING DEPARTMENT INDICATING THE AS-INSTALLED CONDITION SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR.

1.04 PERMITS, INSPECTIONS AND LICENSES

1.05 EXAMINATION OF PREMISES

- A. ALL PERMITS, INSPECTIONS AND LICENSES REQUIRED BY THE LEGALLY CONSTITUTED AUTHORITIES FOR INSTALLATION OF THE WORK ACCORDING TO THE PLANS AND SPECIFICATIONS SHALL BE OBTAINED AND PAID AS A PART OF THE WORK OF THIS SECTION.
- A. BEFORE BIDDING ON THIS WORK, CONTRACTORS SHALL MAKE A CAREFUL EXAMINATION OF THE PREMISES AND SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH THE REQUIREMENTS OF THE CONTRACT. BY THE ACT OF SUBMITTING A PROPOSAL FOR THE WORK INCLUDED IN THIS CONTRACT. THE
- CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINATION, AND THAT HE IS FAMILIAR WITH AND ACCEPTS ALL CONDITIONS OF THE 1.06 PROTECTION
- A. ALL WORK, EQUIPMENT AND MATERIALS SHALL BE PROTECTED AT ALL TIMES. CONTRACTOR SHALL MAKE GOOD ALL DAMAGE CAUSED EITHER DIRECTLY OR INDIRECTLY BY HIS OWN WORKMEN. CONTRACTOR SHALL ALSO PROTECT HIS OWN WORK FROM DAMAGE. HE SHALL CLOSE ALL PIPE OPENINGS WITH CAPS OR PLUGS DURING INSTALLATION. HE SHALL PROTECT ALL HIS EQUIPMENT AND MATERIALS AGAINST DIRT, WATER, CHEMICAL AND MECHANICAL INJURY UPON COMPLETION, ALL WORK SHALL BE THOROUGHLY CLEANED AND DELIVERED IN A NEW CONDITION.
- B. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE TO EQUIPMENT AND MATERIALS UNTIL HE HAS RECEIVED WRITTEN NOTICE FROM THE ARCHITECT OR ENGINEER THAT HIS WORK HAS BEEN ACCEPTED. 1.07 SUBMITTAL DATA
- A. FURNISH, ALL AT ONE TIME, PRIOR TO ANY INSTALLATION, WITHIN THE TIME NOTED BELOW, ELECTRONIC COPIES OF VALID SUBMITTAL DATA ON ALL FIXTURES, MATERIAL, EQUIPMENT AND DEVICES. EACH SUBMITTED ITEM SHALL BE INDEXED AND REFERENCED TO THESE SPECIFICATIONS AND TO PUT
- IDENTIFICATION NUMBERS ON FIXTURES AND EQUIPMENT SCHEDULES. MANUFACTURERS SUBMITTAL LITERATURE AND SHOP DRAWINGS ARE REQUIRED ON ALL ITEMS TO ENSURE THE LATEST AND MOST COMPLETE
- MANUFACTURER'S DATA IS AVAILABLE FOR REVIEW. REQUIREMENTS OF THE SUBMITTALS AND ENGINEER'S SUBMITTAL NOTES ARE A PART OF THE WORK OF HIS DIVISION EXCEPT THAT ENGINEER'S NOTES MAY NOT BE USED AS A MEANS OF INCREASING THE SCOPE OF WORK OF THIS DIVISION.
- SUBMITTALS WILL BE CHECKED FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT BUT THE REVIEW DOES NOT GUARANTEE QUANTITIES SHOWN AND DOES NOT SUPERSEDE REQUIREMENTS OF THIS DIVISION TO PROPERLY INSTALL WORK.
- D. A LIST OF NAMES IS NOT A VALID SUBMITTAL. TO BE VALID, ALL SUBMITTALS MUST:
- BE SENT ELETRONICALLY TO THE ARCHITECT WITHIN THIRTY-FIVE (35) DAYS OF AWARD OF THE CONTRACT. CORRECTIONS OR CHANGES IN SUBMITTALS RETURNED AS INADEQUATE OR INCOMPLETE SHALL BE ACCOMPLISHED WITHIN THIS TIME LIMIT. 2. INCLUDE ALL PERTINENT CONSTRUCTION, INSTALLATION, PERFORMANCE AND TECHNICAL DATA
- HAVE ALL COPIES MARKED TO INDICATE CLEARLY THE INDIVIDUAL ITEMS BEING SUBMITTED.
- 5. CONTAIN CALCULATIONS AND OTHER DETAILED DATA JUSTIFYING HOW THE ITEM WAS SELECTED FOR PROPOSAL. DATA MUST BE COMPLETED ENOUGH TO PERMIT DETAILED COMPARISON OF EVERY SIGNIFICANT CHARACTERISTIC FOR WHICH THE SPECIFIED ITEM WAS ANALYZED DURING

4. HAVE EACH ITEM CROSS-REFERENCED TO THE CORRESPONDING SPECIFIED ITEM AND BE MARKED TO SHOW HOW DIFFERENCES WILL BE

6. INCLUDE, FOR EVERY ITEM WHICH DIFFERS IN SIZE, CONFIGURATION, CONNECTIONS, SERVICE, ACCESSIBILITY OR ANY OTHER SIGNIFICANT WAY, A DRAWING TO THE SAME (OR LARGER) SCALE AS TO THE PERTINENT PORTIONS OF THE CONTRACT DRAWINGS. IN THIS DRAWING SHOW A COMPLETE LAYOUT OF THE SYSTEM EXCEPT THAT WHICH IS IDENTICAL TO THE CONTRACT DRAWINGS, UNLESS THE UNCHANGED PORTIONS MUST BE SHOWN TO INDICATE SUCH THINGS AS CLEARANCES. THIS DRAWING, TOGETHER WITH THE CONTRACT DESIGN DRAWINGS MUST SHOW THE COMPLETE SYSTEM AS REVISED TO ACCOMMODATE THE PROPOSED ALTERNATE.

ACCOMMODATED.

- CONTRACTOR SHALL NOT ALLOW OR CAUSE ANY OF HIS WORK TO BE COVERED UP BEFORE IT HAS BEEN DULY INSPECTED, TESTED AND APPROVED BY THE WNER, ARCHITECT OR ANY OTHER AUTHORIZED INSPECTORS HAVING LEGAL JURISDICTION OVER HIS WORK. SHOULD HE FAIL TO OBSERVE THE ABOVE, HE SHALL UNCOVER THE WORK AND, AFTER IT HAS BEEN INSPECTED, TESTED AND APPROVED, RECOVER IT AT HIS OWN EXPENSE 1.10 SUBSTITUTIONS
- THE CONTRACTOR ASSUMES FULL RESPONSIBILITY THAT ALTERNATE ITEMS AND PROCEDURES WILL MEET THE JOB REQUIREMENTS AND IS RESPONSIBLE FOR COST OF REDESIGN AND OF MODIFICATIONS TO THIS AND OTHER PARTS OF WORK CAUSED BY ALTERNATE ITEMS FURNISHED UNDER WORK IN THIS SECTION. IN VIEW OF THESE RESPONSIBILITIES, IT IS THE PURPOSE OF THESE SPECIFICATIONS TO ESTABLISH PROCEDURES WHICH ENSURE THAT THE CONTRACTOR HAS CONSIDERED ALL THE RAMIFICATIONS OF PROPOSED ALTERNATES BEFORE SUBMITTING THEM FOR REVIEW. SUBMITTALS WHICH DO NOT COMPLY WITH THE REQUIREMENTS OF THESE SPECIFICATIONS OR WHICH INDICATE PROPOSED ALTERNATES WERE SELECTED WITHOUT PROPER REGARD TO THE REQUIREMENTS OF THE JOB, WILL NOT BE APPROVED. NO MORE THAN ONE PROPOSED ALTERNATE WILL BE CONSIDERED FOR EACH ITEM.
- B. ALTERNATE ITEMS INSTALLED WITHOUT ENGINEER'S APPROVAL WILL BE REPLACED WITH SPECIFIED ITEMS AT CONTRACTOR'S EXPENSE.
- C. PROVIDE OR PERFORM TESTS REQUIRED BY ENGINEER FOR PURPOSE OF JUDGING ACCEPTABILITY OF PROPOSED SUBSTITUTIONS.
- THIS CONTRACTOR IS RESPONSIBLE TO PROVIDE SUFFICIENT INFORMATION TO ALLOW THE ENGINEER TO ANALYZE ANY PROPOSED ALTERNATE. IF INADEQUATE INFORMATION IS PROVIDED, THE PROPOSAL WILL NOT BE APPROVED AND RESUBMITTAL WILL NOT BE ALLOWED.
- THE ARCHITECT OR HIS AUTHORIZED REPRESENTATIVE SHALL BE THE SOLE JUDGE AS TO THE QUALITY AND SUITABILITY OF PROPOSED ALTERNATE EQUIPMENT, FIXTURES OR MATERIALS AND DECISIONS OF THE ARCHITECT OR THAT OF HIS REPRESENTATIVE SHALL BE FINAL AND CONCLUSIVE. 1.11 RECORD DRAWINGS
- CONTRACTOR SHALL PROVIDE AND KEEP UP-TO-DATE A COMPLETE "AS-BUILT" RECORD SET OF BLUELINE PRINTS WHICH SHALL SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS AND THE EXACT "AS-BUILT" LOCATIONS AND SIZES OF THE WORK PROVIDED UNDER THIS SECTION OF THE SPECIFICATIONS. THIS SET SHALL INCLUDE LOCATIONS, DIMENSIONS, DEPTH OF BURIED PIPING, CLEANOUTS, SHUT-OFF VALVES, SEWER INVERT LOCATIONS, PLUGGED WYES TEES, ETC. ON COMPLETION OF THE WORK, THE CONTRACTOR SHALL INCORPORATE ALL AS-BUILT INFORMATION IN AUTOCAD FORMAT AND SHALL BE DELIVERED TO THE ARCHITECT.

CONTRACTOR SHALL GUARANTEE THE ENTIRE PLUMBING AND PIPING SYSTEMS UNCONDITIONALLY FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE. IF, DURING THIS PERIOD, ANY MATERIALS, EQUIPMENT, OR ANY PART OF THE SYSTEMS FAIL TO FUNCTION PROPERLY, THE CONTRACTOR

- SHALL MAKE GOOD THE DEFECTS PROMPTLY AND WITHOUT ANY EXPENSE TO THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO ANY PART OF THE PREMISES CAUSED BY LEAKS IN PIPELINES OR EQUIPMENT FURNISHED AND
- INSTALLED UNDER THIS SECTION FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF ACCEPTANCE OF HIS WORK. ALL EQUIPMENT AND FIXTURES SHALL CARRY MANUFACTURER'S WARRANTY AGAINST DEFECTIVE PARTS OR POOR WORKMANSHIP AND SHALL NOT BE LESS
- THAN ONE (1) YEAR. SEE SPECIFIC EQUIPMENT SPECIFICATIONS FOR EXTENDED WARRANTY REQUIREMENTS. PART 2 - PRODUCTS

2.01 MATERIALS AND EQUIPMENT (SEE SCHEDULES ON DRAWINGS)

- A. GENERAL: ALL MATERIALS, AS SPECIFIED OR REQUIRED IN THE WORK, SHALL BE NEW, FREE FROM DEFECTS AND IMPERFECTIONS.
- B. PIPE AND FITTINGS: SOIL AND WASTE PIPING:
 - a. SOIL AND WASTE PIPING WITHIN THE BUILDING ITSELF SHALL BE NO-HUB CAST IRON SERVICE WEIGHT PIPE AND FITTINGS. ASPHALTUM COATED
 - FREE FROM DEFECTS, AND SHALL COMPLY WITH C.I.S.P.I. STANDARD 301-85. FITTINGS SHALL BE MADE UP WITH "HUSKY" SERIES 4000 OR "TYLER" WIDE BODY STAINLESS STEEL FOUR-BAND COUPLINGS AND SHALL COMPLY WITH ASTM C564 EXCEPT ALL ABOVE GROUND VENT PIPE FITTINGS MAY BE MADE WITH "HUSKY" OR "TYLER" STAINLESS STEEL TWO BAND COUPLINGS. ALL EXPOSED PIPING SHALL BE, TYPE "DWV" HARD DRAWN COPPER AND END FITTINGS, ASTM B32 FOR PIPE AND CAST BRONZE DRAINAGE PATTERN FITTINGS WITH SOLDERED JOINTS.
- VENT PIPING:
- a. CONCEALED OR UNDERGROUND VENT PIPING SHALL BE CAST IRON PIPE AND FITTINGS AS SPECIFIED FOR SOIL AND WASTE PIPING.
- b. EXPOSED VENT PIPING SHALL BE TYPE "DWV" HARD DRAWN COPPER PIPE AND FITTINGS.
- 3. WATER PIPING: PIPING WITHIN THE BUILDING AND ABOVE GRADE SHALL BE TYPE "L" ASTM B88, HARD DRAWN COPPER TUBING WITH WROUGHT COPPER SWEAT FITTINGS ANSI B16.22.
- 4. COMPRESSED AIR (CA) PIPE AND FITTINGS:
- a. ABOVEGROUND: NITROGENIZED ACR "TYPE L" COPPER TUBING W/ BRAZED JOINT FITTINGS.
- 5. INDIRECT WASTE PIPING: SHALL BE TYPE "L" COPPER AS SPECIFIED FOR WATER PIPING.
- REVERSE OSMOSIS PIPING:
- a. PIPING SHALL BE POLYPROPYLENE SCHEDULE 40 FUSION WELDED BE MANUFACTURED IN ACCORDANCE WITH ASTM D2846. CERTIFIED BY NSF INTERNATIONAL TO USE THE NSF-pw MARK.
- b. APPROVED MANUFACTURER'S GEORG FISCHER
- AQUATHERM. US PLASTIC
- UNIONS SHALL BE FURNISHED AND INSTALLED AT EACH THREADED CONNECTION TO ALL EQUIPMENT OR VALVES. THE UNIONS OR FLANGES SHALL BE LOCATED SO THAT THE PIPING CAN BE EASILY DISCONNECTED FOR REMOVAL OF THE EQUIPMENT, TANK, OR VALVE, AND SHALL BE OF THE TYPE SPECIFIED IN THE FOLLOWING SCHEDULE.
- a. UNIONS:
- 1) BLACK STEEL PIPE: 250 POUND SCREWED BLACK MALLEABLE IRON, GROUND JOINT, BRASS TO IRON SEAT.

1) COPPER OR BRASS TUBING: 150 POUND CAST BRONZE OR COPPER, GROUND JOINT, NONFERROUS SEAT WITH ENDS, BY WALSEAL, NIBCO OR MUELLER.

C. VALVES:

GENERAL

- a. PIPING SYSTEMS SHALL BE SUPPLIED WITH VALVES ARRANGED SO AS TO GIVE COMPLETE AND REGULATING CONTROL OF PIPING SYSTEMS THROUGHOUT THE BUILDING, AND LOCATES SO ALL PARTS ARE EASILY ACCESSIBLE AND MAINTAINED.
- b. VALVE DESIGN: RISING STEM OR OUTSIDE SCREW AND YOKE STEMS. NON-RISING STEM VALVES MAY BE USED WHERE SPACE CONDITIONS PREVENT FULL EXTENSION OF RISING STEMS.
- c. SIZES: SAME SIZE AS UPSTREAM PIPE, UNLESS OTHERWISE INDICATED.
- d. OPERATORS:
 - 2) LEVER HANDLES ON QUARTER-TURN VALVES, THREE INCH AND SMALLER EXCEPT FOR PLUG VALVES. PROVIDE PLUG VALVES WITH
- e. EXTENDED STEMS: WHERE INSULATION IS INDICATED OR SPECIFIED, PROVIDE EXTENDED STEMS ARRANGED TO RECEIVE INSULATION.
- f. END CONNECTION: 2 INCHES AND UNDER SHALL BE THREADED, 2-1/2 INCHES AND LARGER SHALL BE FLANGED OR FULL LUG STYLE.
- a. HAMMOND b. NIBCO

APPROVED MANUFACTURERS:

- c. APOLLO
- 3. PROVIDE CLASS 150 VALVES MEETING THE VALVE SPECIFICATIONS WHERE CLASS 125 VALVES ARE SPECIFIED BUT ARE NOT AVAILABLE.
- BALL VALVES: (LEAD FREE)
- a. BALL VALVES, 2 INCHES AND SMALLER: RATED FOR 150 PSI SATURATED STEAM PRESSURE, 600 PSI WOG PRESSURE: TWO OR THREE-PIECE CONSTRUCTION; WITH BRONZE BODY AND SINGLE REDUCE BORE OR BETTER, CHROME PLATED SOLID BRASS BALL, "TEFLON" SEATS AND SEALS, SEPARATE ADJUSTABLE PACKING GLAND AND NUT, BLOWOUT-PROOF STEM AND VINYL COVERED STEEL HANDLE.
- b. SEE SCHEDULE ON DRAWINGS.
- D. CLEANOUTS: SHALL BE J.R. SMITH, ZURN OR JOSAM.
- 1. GENERAL: PROVIDE CAST-IRON FERRULE AND COUNTERSUNK BRASS CLEAN-OUT PLUG WITH ROUND CAST IRON ACCESS FRAME AND HEAVY DUTY SECURED TOP COVER.
- 2. WALL CLEANOUTS: ZURN NO. Z-1468-NH FOR STEEL PIPE AND ZURN NO. Z-1446-NH FOR CAST IRON PIPE.
- F. ACCESS PANELS: ZURN, J.R. SMITH OR JOSAM. WALL ACCESS PANELS SHALL BE MINIMUM 12" X 12" FOR CONCEALED VALVES AND OTHER EQUIPMENT UNLESS OTHERWISE SPECIFIED OR INDICATED. CEILING ACCESS PANELS SHALL BE 18" X 18" MINIMUM.
- WALL PANELS: ZURN NO. Z-1462 NICKEL BRONZE. VANDAL PROOF FOR ALL WALLS. 2. CEILING PANELS: POTTORFF MODEL WB OR PW, PRIME COATED STEEL, TYPE AS REQUIRED FOR PLASTER, OR DRY WALL CEILINGS.
- G. ESCUTCHEONS: SHALL BE CHROME PLATED CAST BRASS WITH SET SCREW LOCKING DEVICE. H. DIELECTRIC UNION ISOLATORS: WHERE INCOMPATIBLE MATERIALS COME IN CONTACT, ISOLATE FROM EACH OTHER WITH MATERIAL BEST SUITED FOR THE CHARACTERISTICS OF MATERIALS TO BE ISOLATED. DIELECTRIC UNION ISOLATOR FOR CONNECTION PIPING OR NON-COMPATIBLE MATERIALS SHALL BE OF
- STANDARD COMMERCIAL DESIGN WITH THREADED CONNECTIONS.
- I. PIPE SUPPORTS: UNLESS OTHERWISE INDICATED ON THE DRAWINGS. SHALL BE AS FOLLOWS: 1. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MISCELLANEOUS IRON WORK INCLUDING ANGLES, CHANNELS, ETC., REQUIRED TO

APPROPRIATELY SUPPORT THE VARIOUS PIPING SYSTEMS. HANGER SPACING AND LOCATION SHALL CONFORM TO CALIFORNIA PLUMBING CODE

AND SUPPORTED FROM STRUCTURE AS HEREIN SPECIFIED. SUBMIT TEST DATA FOR TYPE OF HANGER SUPPORTS TO BE PROVIDED. FOR SUPPORT

- 2. ALL HORIZONTAL RUNS OF PIPING WITHIN THE BUILDING, EXCEPT FOR COPPER WATER SUPPLY STUB-OUTS AT FIXTURES AND COPPER SUPPLY HEADERS WITHIN WALLS, TO BE SUPPORTED FROM THE STRUCTURAL FRAMING WITH STEEL RODS AND SPLIT RING HANGERS: B-LINE, GRINNELL COMPANY, TOLCO, OR APPROVED EQUAL. COPPER STUB-OUTS AND COPPER HEADERS WITHIN WALLS TO BE SUPPORTED FROM THE WALL FRAMING OR DWV WITH HOLDRITE PIPE HANGERS AND SUPPORTS AS SPECIFIED AT ITEM LOURS SHALL BE SECLIBED TO OVERHEAD FRAMING WITH SIDE BEAM CONNECTORS, WHERE NECESSARY INSTALL ANGLE IRON RETWEEN ERAMING TO ACCOMMODATE HANGER RODS. WHERE SEVERAL PIPES ARE RUNNING TOGETHER. UNISTRUT. B-LINE. OR POWERSTRUT CHANNELS WITH CLAMPS MAY BE USED IN LIEU OF INDIVIDUAL PIPE HANGER
- CONDITIONS OTHER THAN SPECIFIED HEREIN, THE CONTRACTOR SHALL SUBMIT METHOD OF SUPPORT FOR APPROVAL PRIOR TO ANY INSTALLATION. 3. HORIZONTAL PIPING HANGERS AND SUPPORTS:
- GENERAL: PROVIDE FACTORY FABRICATED HORIZONTAL HANGERS AND SUPPORTS COMPLYING WITH ONE OF THE FOLLOWING MSS TYPES LISTED TO SUIT HORIZONTAL PIPING SYSTEMS, IN ACCORDANCE WITH MSS SP-69, IAPMO PS 42, AND MANUFACTURER'S PUBLISHED INFORMATION. SELECT SIZE OF HANGERS AND SUPPORTS TO EXACTLY FIT PIPE SIZE FOR BARE PIPING, AND TO EXACTLY FIT AROUND PIPING INSULATION WITH SADDLE OR SHIELD FOR INSULATED PIPING. PROVIDE COPPER-PLATED HANGERS AND SUPPORTS FOR COPPER-PIPING SYSTEMS.
- 1) ADJUSTABLE STEEL CLEVIS HANGERS: (MSS TYPE 1) B-LINE B 3100
- 2) ADJUSTABLE SWIVEL PIPE RINGS: (MSS TYPE 5) B-LINE B 3690
- 3) SPLIT RING: (MSS TYPE 11)
- 4) PIPE ALIGNMENT AND SUPPORT BRACKETS: (PER IAPMO PS 42) HOLDRITE PRODUCTS (SEE SECTION 0.9.)

a. GENERAL: PROVIDE FACTORY FABRICATED HANGER-ROD ATTACHMENTS B-LINE, TOLCO OR APPROVED EQUAL, SELECTED BY INSTALLER TO

4. HANGER-ROD ATTACHMENTS:

REQUIREMENTS.

- SUIT HORIZONTAL-PIPING HANGERS AND BUILDING ATTACHMENTS, IN ACCORDANCE WITH MSS SP-58 AND MANUFACTURER'S PUBLISHED PRODUCT INFORMATION. SELECT SIZE OF HANGER-ROD ATTACHMENT TO SUIT HANGER RODS. PROVIDE COPPER-PLATED HANGER-ROD ATTACHMENTS FOR COPPER-PIPING SYSTEMS.
- b. SIDE BEAM EYE SOCKET, TOLCO FIG. #57 FOR ROD SIZES 3/8" DIA. AND TOLCO FIG. #25-30-251 FOR ROD SIZES 1/2" DIA.
- BUILDING ATTACHMENTS:
- a. GENERAL: PROVIDE FACTORY FABRICATED BUILDING ATTACHMENTS, SELECTED BY INSTALLER TO SUIT BUILDING STRUCTURAL FRAMING CONDITIONS, IN ACCORDANCE WITH MSS SP-69 AND MANUFACTURER'S PUBLISHED PRODUCT INFORMATION. SELECT SIZE OF BUILDING ATTACHMENTS TO SUIT HANGER RODS. PROVIDE COPPER-PLATED BUILDING ATTACHMENTS FOR COPPER-PIPING SYSTEMS.
- 6. HANGER RODS AND SPACING SHALL CONFORM TO CPC TABLE 3-2.
- 7. HANGERS AND SUPPORTS SHALL BE ADEQUATE TO MAINTAIN ALIGNMENT AND PREVENT SAGGING AND SHALL BE PLACED WITHIN 18 INCHES OF JOINT. SUPPORT SHALL BE PROVIDED AT EACH HORIZONTAL BRANCH CONNECTION.
- 8. WHEN SECURING COPPER WATER SUPPLY PIPING DIRECTLY TO THE DWV PIPING OR TO THE WALL FRAMING (HORIZONTAL WATER HEADERS AND FIXTURE STUB-OUTS), THE FOLLOWING COPPER-PLATED COMPONENTS OF THE HOLDRITE SYSTEM ARE TO BE USED AS A SUPPORT SYSTEM:
- a. FOR ATTACHMENT TO DWV (PRE- OR POST-FRAMING), USE MODELS 110S, 111S, V-2 (OR 115C).
- b. FOR POSITIONING SUPPLY/FLUSH VALVE FOR WALL-HUNG WATER CLOSET, USE MODEL 114C (ATTACHES TO CARRIER) AND 114C-EXT (EXTENSION FOR ABOVE, E.G., FOR FIXTURES TO BE USED BY HANDICAPPED). c. FOR ATTACHMENT TO WALL FRAMING, USE MODELS 101-26, 102-26.
- 9. PROVIDE LATERAL BRACING AS MANUFACTURED BY B-LINE OR APPROVED EQUAL FOR ALL PIPING TO PREVENT SWAYING OR MOVEMENT IN ACCORDANCE WITH SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF PIPING SYSTEMS". PIPING SMALLER THAN INDICATED IN THE GUIDELINES SHALL BE PROVIDED WITH BRACING AS SPECIFIED FOR THE SMALLEST SIZE INDICATED. THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE PROPERLY BRACED AND WILL NOT MOVE DUE TO THE ACTION OF QUICK CLOSING OF VALVES.
- 10. MISCELLANEOUS SUPPORTS, WALL BRACKETS, ETC. PROVIDE WHERE REQUIRED IN ACCORDANCE WITH THE BEST STANDARD PRACTICES OF THE TRADE. SUBMIT SHOP DRAWINGS FOR ALL FABRICATED SUPPORTS.
- 11. ISOLATORS. ALL PIPING WHICH IS NOT ISOLATED FROM CONTACT WITH THE BUILDING BY ITS INSULATION, EXCEPT FOR COPPER WATER SUPPLY STUB-OUTS AT FIXTURES AND COPPER SUPPLY HEADERS WITHIN WALLS, SHALL BE INSTALLED WITH A MANUFACTURED TYPE ISOLATOR. ISOLATORS SHALL BE B-LINE VIBRA CLAMP AND CUSHION, SUPER STRUT, STONEMAN, "TRISOLATOR", OR APPROVED EQUAL, PIPING SHALL BE INSTALLED AND SUPPORTED IN A MANNER TO PROVIDE FOR EXPANSION WITHOUT STRAINS. GUIDES SHALL BE PROPERLY INSTALLED TO ENSURE THIS REQUIREMENT.

12. SHIELDS:

- a. GENERAL: PROVIDE SHIELDS AT PIPING HANGERS AND SUPPORTS, FACTORY-FABRICATED, FOR ALL INSULATED PIPING AS MANUFACTURED BY PIPESHIELDS INCORPORATED OR APPROVED EQUAL. SIZE SHIELDS FOR EXACT FIT TO MATE WITH PIPE INSULATION.
- b. PROTECTION SHIELDS: MSS TYPE 40; PROVIDE HIGH DENSITY INSERT OF SAME THICKNESS OF INSULATION OR EQUAL 100-PSI AVERAGE COMPRESSIVE STRENGTH, WATERPROOFED CALCIUM SILICATE, ENCASED WITH A SHEET METAL SHIELD. INSERT AND SHIELD SHALL COVER ENTIRE CIRCUMFERENCE OF THE PIPE AND SHALL BE OF LENGTH INDICATED BY MANUFACTURER FOR PIPE SIZE AND THICKNESS OF INSULATION.

K. INSULATION:

- HOT WATER PIPE INSULATION: ALL HOT WATER SUPPLY AND RETURN PIPING, EXCEPT EXPOSED CONNECTIONS TO PLUMBING FIXTURES, FLANGES AND UNIONS SHALL BE INSULATED WITH "ASTM C547, CLASS I, "MANVILLE" "MICRO-LOCK" 850-APT, OWENS-CORNING FIBERGLASS CORP., ASJ/SL-11 OR ASTM C-534 IMCOA IMCOLOCK OR APPROVED EQUAL, 11/2" THICK. INSULATED PIPING EXPOSED IN OCCUPIED AREAS AND EQUIPMENT ROOMS SHALL BE COVERED WITH "CHILDERS" 0.016 INCH THICK ALUMINUM JACKET INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. INSULATION SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DENSITY NOT EXCEEDING 50 PER UMC SEC. 604.3. HOT WATER PIPING BELOW SLAB SHALL HAVE INSULATION PROTECTED BY A 10 MIL THICK POLYETHYLENE PLASTIC SLEEVE SEALED WATERTIGHT WITH POLY VINYL CHLORIDE TAPE.
- 2. ALL INSULATION SHALL BE CONTINUOUS THROUGH SUPPORTS AND HANGERS, EXCEPT AT FIXTURE STUB-OUT SUPPORT LOCATIONS.
- SEE SCHEDULE ON DRAWINGS.

IN NO CASE LESS THAN THE SUPPLY STOP SIZE.

- FIXTURES:
- a. PLUMBING FIXTURES SHALL BE FURNISH COMPLETE WITH NECESSARY TRIM, INCLUDING STOPS. ALL TRIM AND FITTINGS SHALL BE CHROME PLATED BRASS INCLUDING HANDLES. SUPPLY TAILPIECES, TRAPS AND ESCUTCHEONS
- b. CONNECTIONS TO FIXTURES SHALL BE IN ACCORDANCE WITH CODE REQUIREMENTS EXCEPT AS EXCEEDED HEREIN OR ON THE DRAWINGS AND
- d. ALL PLUMBING FIXTURE FAUCETS SUBMITTED FOR REVIEW SHALL HAVE IDENTIFICATION LABEL OR CERTIFICATION SHOWING COMPLIANCE WITH CALIFORNIA TITLE 24, PART 5, ARTICLE I, "ENERGY CONSERVATION STANDARDS". ARTICLE I, T20-1406; ARTICLE 2, T20-1525 AND ARTICLE 4, 1604

PART 3 - EXECUTION

3.01 INSTALLATION - GENERAL

A. LOCATIONS AND ACCESSIBILITY: INSTALL EQUIPMENT FOR EASE OF MAINTENANCE AND REPAIR. IF CHANGES IN THE INDICATED LOCATIONS OR ARRANGEMENTS ARE MADE BY THE CONTRACTOR, THEY SHALL BE MADE WITHOUT ADDITIONAL CHARGES.

- PIPING AND EQUIPMENT AT THE PROPER TIMES.
- CLOSING-IN OF UNINSPECTED WORK: DO NOT ALLOW OR CAUSE ANY OF THE WORK TO BE COVERED UP OR ENCLOSED UNTIL IT HAS BEEN INSPECTED, ESTED, AND ACCEPTED BY THE ARCHITECT. ANY WORK ENCLOSED OR COVERED PRIOR TO SUCH INSPECTION AND TEST SHALL BE UNCOVERED AND, AFTER IT HAS BEEN INSPECTED, TESTED, AND APPROVED, MAKE ALL REPAIRS WITH SUCH MATERIALS AS MAY BE NECESSARY TO RESTORE ALL WORK, INCLUDING THAT OF OTHER TRADES, TO ITS ORIGINAL AND PROPER CONDITION.
- BEFORE LAYING OF ANY PIPE OR DIGGING OF ANY TRENCHES, CONTRACTOR SHALL DETERMINE BY ACTUAL EXCAVATION AND MEASUREMENT EXACT LOCATIONS AND DEPTH OF EXISTING UTILITY AND SERVICE LINES TO WHICH HE IS GOING TO CONNECT. IN EVENT DEPTH OF EXISTING SEWER MAIN IS NOT SUFFICIENT TO PERMIT INSTALLATION OF PIPING AS DETAILED ON DRAWINGS OR TO MAKE CONNECTION IN MANNER INDICATED, CONTRACTOR SHALL CONFER WITH THE ARCHITECT, OWNER'S REPRESENTATIVE AND ENGINEER FOR DIRECTION.
- E. EXCAVATION, TRENCHING AND BACKFILL: DO ALL NECESSARY TRENCH EXCAVATION, SHORING, BACKFILLING AND COMPACTION REQUIRED FOR THE PROPER LAYING OF THE PIPE LINES.
- BACKFILL SHALL BE CLEAN SOIL FREE FROM ROCKS AND DEBRIS. COMPACT TO NINETY PERCENT (90%) OF SURROUNDING SOIL. ALL PIPING BOTH INSIDE AND OUTSIDE OF BUILDING SHALL BE INSTALLED IN A MINIMUM 6" SAND BED AND COVERED WITH 6" OF SAND PRIOR TO BACKFILL. CONTINUE BACKFILL WITH MATERIALS FREE OF ROCKS AND DEBRIS, PROPERLY MOISTENED AND MECHANICALLY TAPERED AND COMPACTED TO 90% OF
- 2. BOTTOMS OF TRENCHES: CUT TO GRADE AND EXCAVATE BELL HOLES TO ENSURE THE PIPES BEARING FOR THEIR ENTIRE LENGTH UPON THE OUTSIDE PERIPHERY OF THE LOWER THIRD OF THE PIPE.
- 3. NO PIPING SHALL RUN IN, THROUGH OR ABOVE ANY ELECTRICAL EQUIPMENT ROOMS OR SPACES AT ANY TIME.
- 4. HORIZONTAL SOIL AND WASTE PIPING SHALL BE INSTALLED TO A UNIFORM GRADE OF NOT LESS THAN ONE-FOURTH INCH (1/4") PER FOOT, UNLESS OTHERWISE INDICATED OR DIRECTED.
- F PIPING INSTALLATION: 1. ALL PIPING SHALL BE CONCEALED IN FINISHED PORTION OF THE BUILDING EXCEPT WHERE OTHERWISE INDICATED OR DIRECTED AT THE TIME THE WORK IS DONE. ALL PIPING SHALL BE INSTALLED TO CLEAR ALL FRAMING MEMBERS AND BEAMS. EVEN IF DRAWINGS DO NOT INDICATE SAME. CONTRACTOR SHALL CONSTANTLY CHECK THE WORK OF OTHER TRADES SO AS TO PREVENT ANY INTERFERENCE WITH THE INSTALLATION OF THIS
- 2. ALL PIPING INTO STEM WALLS AND FOOTINGS SHALL BE DOUBLE HALF LAP WRAPPED WITH 1/8" THICK "ARMOFLEX" INSULATION. THE CONTRACTOR SHALL ALSO PROVIDE BLOCKED OUT AREAS IN STEM WALL AND FOOTING AS REQUIRED FOR THE INSTALLATION OF THE PIPING. ALL PIPING SHALL AVOID THE LOWER 8" OF THE FOOTING AND THE CONTRACTOR SHALL COORDINATE AND PROVIDE DROPPED FOOTINGS AS REQUIRED FOR THE INSTALLATION OF THE UNDERGROUND PIPING.
- 3. UNIONS SHALL BE INSTALLED ON ONE SIDE OF ALL SCREWED SHUT-OFF VALVES, AT BOTH SIDES OF SCREWED AUTOMATIC VALVES AND ON ALL BY-PASSES, AT ALL EQUIPMENT CONNECTIONS AND ELSEWHERE AS INDICATED OR REQUIRED FOR EASE OF INSTALLATION AND DISMANTLING.
- COPPER TO P.P.S. GROUND JOINT UNIONS. CORROSION PROTECTION:

4. CONNECTIONS BETWEEN COPPER TUBING AND EQUIPMENT SHALL BE WITH MUELLER BRASS COMPANY, OR APPROVED EQUAL, BRASS STREAM LINE

1) ALL METALLIC COMPONENTS AS DESCRIBED ABOVE SHALL RECEIVE A HEAVY COATING OF "HENRYS" OIL BASE ROOF MASTIC.

a. ALL BELOW GROUND BOTH INSIDE AND OUTSIDE THE BUILDING METALLIC FITTINGS, VALVES, FLANGES, BOLTS, SHALL BE PROTECTED AGAINST

- 2) AFTER MASTIC COATING IS COMPLETED AND INSPECTED, WRAP ENTIRE METALLIC COMPONENT WITH A MINIMUM OF 10 MIL. POLYETHYLENE WRAP OVERLAPPED 50% OF THE CIRCUMFERENCE AND EXTENDED BEYOND ENDS OF COMPONENT AS REQUIRED FOR POLYETHYLENE TO BE SECURED TO PIPING. THE OVERLAP SEAM SHALL BE LOCATED TO AVOID BACKFILL MATERIAL FROM ENTERING THE ENCAPSULATED AREA. THE ENDS AND SEAM OF THE OF THE POLYETHYLENE MATERIAL SHALL BE SECURED TO THE PIPING AND SEALED WITH 3M SCOTCH/WRAP N. 50, 10 MIL., 2 WIDE, PRINTED, PIPE WRAP SEALING TAPE.
- 3) THE MASTIC COATING SHALL BE INSPECTED AND APPROVED PRIOR TO THE FINISH APPLICATION OF THE POLYETHYLENE MATERIAL, WHICH SHALL ALSO BE INSPECTED.
- 4) PIPE AND FITTINGS SHALL BE PROTECTED AS SPECIFIED HEREINBEFORE UNDER PIPE AND FITTINGS PARAGRAPH
- G. SLEEVES: SHALL BE PLASTIC OR GALVANIZED STEEL WHERE PIPES PASS THROUGH CONCRETE WALLS OR FLOOR SLABS.
- INDICATED. 2. SLEEVES FOR PIPES THROUGH EXTERIOR WALLS SHALL BE STANDARD WEIGHT GALVANIZED PIPE. PACK SPACE BETWEEN PIPE AND SLEEVES WITH CERAMIC FIBER ROPE SO AS TO BE ABSOLUTELY WATERTIGHT

ISOLATE PIPES THROUGH GROUND FLOOR SLABS WITH KRAFT PAPER, PLASTIC TAPE OR SIMILAR MATERIALS UNLESS CONDUIT IS SPECIFIED OR

- 3. SLEEVES IN OR THROUGH FIRE RATED WALLS SHALL BE PER U.L. FIRE RESISTANCE SYSTEM NO. WL1001. SEE ARCHITECTURAL PLANS FOR ALL LOCATIONS OF RATED WALLS.
- H. CONTRACTION AND EXPANSION: INSTALL ALL WORK IN SUCH A MANNER THAT ITS CONTRACTION AND EXPANSION WILL NOT DO ANY DAMAGE TO THE PIPES, THE CONNECTED EQUIPMENT, OR THE BUILDING. INSTALL OFFSETS, SWING JOINTS, EXPANSION JOINTS, SEISMIC JOINTS, ANCHORS, ETC., AS REQUIRED TO PREVENT EXCESSIVE STRAINS IN THE PIPE WORK. ALL SUPPORTS SHALL BE INSTALLED TO PERMIT THE MATERIALS TO CONTRACT AND EXPAND FREELY WITHOUT PUTTING ANY STRAIN OR STRESS ON ANY PART OF THE SYSTEM. PROVIDE ANCHORS AS NECESSARY.
- I. PIPE JOINTS AND CONNECTIONS:
- 1. COPPER TUBING AND BRASS PIPE WITH THREADLESS FITTINGS
- a. SOLDER JOINTS FOR COPPER SHALL BE MADE WITH 95/5 LEAD FREE SOLDER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR THE SERVICE INTENDED.
- b. USE THREADED ADAPTERS ON COPPER TUBING WHERE THREADED CONNECTIONS ARE REQUIRED.
- WELDED JOINTS: ALL WELDING TO BE PERFORMED BY WELDERS CERTIFIED AS PASSING ASME BOILER AND PRESSURE CODE (SECTION IX) AND SHALL COMPLY WITH ANSI STD. B31.1.0 AND THE AMERICAN WELDING SOCIETY, WELDING HANDBOOK.
- A. FLOOR, WALL AND CEILING PLATES: WHERE PIPES PIERCE FINISHED SURFACES, C.P. BRASS SPLIT FLANGES WITH SET SCREW LOCK SHALL BE PROVIDED. B. INSTALLATION OF PLUMBING FIXTURES:
- 1. INSTALL EACH FIXTURE AT THE EXACT HEIGHT AND LOCATION SHOWN ON THE ARCHITECTURAL DRAWINGS.
- 3. GROUT JOINT BETWEEN THE FIXTURES AND THE WALLS OR FLOORS WITH POLYSULFIDE OR SILICONE SEALANT TO BE SMOOTH, EVEN AND

2. SET FIXTURES, SUPPLIES, TRAP AND TRAP OUTLET SQUARE WITH THE WALL, IN LINE WITH FIXTURE OUTLETS WITHOUT ANY OFFSETS, ANGLES, OR

- 4. WATERTIGHT JOINTS FOR DRAINAGE CONNECTIONS TO ALL FIXTURES SHALL BE MADE IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE.
- M. COMPLETION OF INSTALLATION:

1. CLEANING AND FLUSHING: CLEAN ALL EQUIPMENT AND MATERIALS THOROUGHLY. LEAVE SURFACE TO BE PAINTED SMOOTH AND CLEAN, READY FOR

- 2. FLUSH EACH UNIT OF WATER SUPPLY AND DISTRIBUTION SYSTEM THOROUGHLY WITH CLEAN WATER AT THE HIGHEST VELOCITIES ATTAINABLE.
- 3. CLEAN ALL PIPING, VALVES, TRAPS, FIXTURES AND OTHER DEVICES THOROUGHLY AND FLUSH OR BLOW OUT UNTIL FREE OF SCALE, OIL SILT, SAND, SEDIMENT, PIPE DOPE AND FOREIGN MATTER OF ANY KIND.
- 4. COMPRESSED AIR: REMOVE ALL TERMINAL UNITS AND FLUSH ALL PIPING WITH COMPRESSED AIR.
- 3.02 STERILIZATION OF DOMESTIC WATER LINES A. STERILIZE WATER LINES BY FILLING WITH A SOLUTION CONTAINING FIFTY (50) PARTS OF CHLORINE PER MILLION PARTS WATER AND HOLDING THE SOLUTION THEREIN FOR AT LEAST EIGHT (8) HOURS WITH A WATER HEAD OF AT LEAST FIVE FEET (5) ABOVE THE HIGHEST POINT IN THE SYSTEM. UNLESS OTHERWISE
- SUCH AS TO PROVIDE THOROUGH AND UNIFORM DISTRIBUTION THROUGHOUT THE SYSTEM. OPERATE ALL VALVES DURING THE RETENTION PERIOD. FOLLOWING RETENTION PERIOD, THE HEAVY CHLORINATED WATER SHALL BE FLUSHED FROM THE

DIRECTED. THOROUGHLY FLUSH EACH LINE PRIOR TO STERILIZATION. INTRODUCTION OF STERILIZING SOLUTION OR MATERIALS INTO THE LINES SHALL BE

C. CONTINUE FLUSHING UNTIL THE RESIDUAL CHLORINE AT THE END OF 24 HOURS IS AS REQUIRED BY AWWA C651.

PER UNIFORM (MINIMUM 10 FEET OF HEAD)

D. ALL WORK AND CERTIFICATION OF PERFORMANCE MUST BE DONE BY AN APPROVED LABORATORY UTILIZING QUALIFIED APPLICATIONS AND PERSONNEL

A. NO PIPING WORK SHALL BE CONCEALED OR COVERED UNTIL PIPING HAS BEEN TESTED, INSPECTE AND APPROVED BY THE INSPECTOR. ALL PIPING FOR PLUMBING SYSTEMS SHALL BE COMPLETELY INSTALLED AND TESTED AS REQUIRED BY THE UNIFORM PLUMBING CODE. TEST PRESSURES AND TIMES INDICATED ARE A MINIMUM ONLY. ALL TESTS SHALL BE AS REQUIRED BY THE GOVERNING AUTHORITY AS WELL. SCHEDULE OF TEST PRESSURES:

TEST SYSTEM TESTED GAUGE WATER / RO 100 POUNDS WATER 4 HOURS 60 POUNDS AIR 4 HOURS 150 POLINDS AIR 4 HOURS

PLUMBING CODE

3.04 OPERATION INSTRUCTION

WASTE, VENT

- PRIOR TO OCCUPANCY OR PRIOR TO THE DATE OF FINAL INSPECTION, WHICHEVER MAY OCCUR FIRST, THE CONTRACTOR SHALL PREPARE TWO (2) SETS ELECTRONIC AND HARD COPIES OF TYPEWRITTEN INSTRUCTIONS FOR THE OPERATION OF ALL EQUIPMENT, VALVES, ETC., SPECIFIED AND FURNISHED AS A PART OF THE WORK UNDER THIS SECTION, AND SHALL ASSIGN A COMPETENT PERSON, THOROUGHLY FAMILIAR WITH THE JOB, TO DEMONSTRATE AND INSTRUCT A REPRESENTATIVE OF THE OWNER IN THE OPERATION OF THE EQUIPMENT. THE TIME OF SAID DEMONSTRATION AND INSTRUCTIONS SHALL BE ARRANGED WITH THE OWNER'S REPRESENTATIVE APPROXIMATELY ONE (1) WEEK IN ADVANCE. VERBAL INSTRUCTIONS SHALL INCLUDE SHUT-OFF LOCATION OF GAS AND WATER. THE CONTRACTOR SHALL ASSEMBLE ALL OPERATION AND MAINTENANCE DATA SUPPLIED BY THE MANUFACTURERS OF THE VARIOUS PIECES OF EQUIPMENT, ALL KEYS AND SPECIAL WRENCHES REQUIRED TO OPERATE AND SERVICE THE EQUIPMENT (INCLUDING KEYS FOR YARD BOXES, GAS STOPS AND FIXTURE STOPS), AND ALL EQUIPMENT WARRANTIES AND DELIVER SAME TO THE REPRESENTATIVE OF THE OWNER ON DATE OF SAID
- 3.05 PIPE AND EQUIPMENT IDENTIFICATION

NUMBERS CORRESPONDING TO CONCEALED VALVE

EACH OPERATING AND SERVICE LINE SHUT-OFF VALVE SHALL BE IDENTIFIED BY A 19 GA. BRASS TAG WITH STAMPED, ENGRAVED TYPE OF SERVICE IDENTIFIED, COMPLETE WITH HOLE AND BRASS CHAIN MOUNTED ON VALVE STEM OR HANDLE. TAG SHALL BE A MINIMUM OF ONE AND ONE-HALF INCH

ACCESS PANEL MARKERS: PROVIDE MANUFACTURERS STANDARD 1/16 INCH THICK ENGRAVED PLASTIC LAMINATE MARKER, WITH ABBREVIATIONS AND

D. ALL EQUIPMENT SHALL BE PROVIDED WITH NAME PLATE INDICATING ALL PERTINENT INFORMATION ON IT.

OPENINGS: FURNISH INFORMATION TO THE OTHER TRADES ON SIZE AND LOCATION OF OPENINGS WHICH ARE REQUIRED IN WALLS, SLABS, ROOF, FOR E. MANUFACTURER'S STANDARD PERMANENT, BRIGHT COLORED, CONTINUOUS PRINTED PLASTIC TAPE, INTENDED FOR DIRECT-BURIAL SERVICE, NOT LESS THAN 6 INCHES WIDE X 4 MILS THICK. PROVIDE MULTI-PLY TAPE CONSISTING OF SOLID ALUMINUM FOIL CORE INDICATING TYPE OF SERVICE OF BURIED PIPE

BETWEEN TWO LAYERS OF PLASTIC TAPE

END OF SECTION

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REV: DESCRIPTION:

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TCMC DECONTAMINATION SINK

DRAWN F CHECKED B

