# STATE OF HAWAII HAWAII HEALTH SYSTEMS CORPORATION KONA COMMUNITY HOSPITAL

# NEW CLINICAL LAB, ULTRASOUND ROOM, & MISCELLANEOUS ALTERATIONS

KEALAKEKUA, HAWAII TMK: 7-9-010: 081

# **GENERAL NOTES**

- 1. ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED.
- 2. COMPLY WITH ALL APPLICABLE COUNTY OF HAWAII, STATE, AND FEDERAL LAWS, BUILDING CODES. THEIR ADDITIONS, ADDENDUMS, AND AMENDMENTS IN THE CONSTRUCTION OF THIS
- POLLUTION CONTROL. OF TITLE 11, HAWAII ADMINISTRATIVE RULES OF THE STATE
- WORKMANSHIP SHALL CONFORM TO THE STATE BUILDING CODE. HOWEVER, WHERE REFERENCE IS MADE TO PERFORMANCE CONFORMING WITH OTHER STANDARDS. THE MORE STRINGENT SHALL APPLY.
- VERIFY AND CHECK ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL BE AWARE OF ALL EXISTING CONDITIONS INVOLVED IN THE WORK. NOTIFY THE ARCHITECT IMMEDIATELY, IN WRITING, OF ANY DISCREPANCIES OR DEVIATIONS BETWEEN THE EXISTING DRAWINGS AND CONDITIONS IN THE FIELD, INCLUDING, BUT NOT LIMITED TO, DIMENSIONS, ELEVATIONS, AND CLEARANCES.
- 6. CAUTION SHALL BE EXERCISED SO THAT NO EXISTING AREAS TO REMAIN ARE DAMAGED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY/ALL CORRECTIVE WORK REQUIRED TO RESTORE DAMAGE TO THE SITE, EXISTING STRUCTURE, AND/OR EXISTING SURFACES. DAMAGED SURFACES SHALL BE CORRECTED TO MATCH EXISTING ADJACENT SURFACES.
- 7. THE CONTRACTOR SHALL RESTORE TO THE ORIGINAL OR BETTER CONDITION ALL IMPROVEMENTS AND VEGETATION DAMAGED AS A RESULT OF THE CONSTRUCTION INCLUDING PAVEMENTS, EMBANKMENTS, CURBS, SIGNS, LANDSCAPING, STRUCTURES, UTILITIES, WALLS. FENCES, ETC. UNLESS PROVIDED FOR SPECIFICALLY IN THE PROPOSAL, DEMOLITION AND RESTORATION OF EXISTING ITEMS SHALL BE INCIDENTAL.
- 8. NO CONTRACTOR SHALL PERFORM ANY CONSTRUCTION OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL, OR DEBRIS IN ANY FORM TO FALL, SLIDE, OR FLOW ONTO ADJOINING PROPERTIES, STREETS, OR NATURAL WATERCOURSES, SHOULD SUCH VIOLATIONS OCCUR. THE COSTS INCURRED FOR ANY REMEDIAL ACTION SHALL BE PAYABLE BY THE CONTRACTOR.
- 9. THE UNDERGROUND PIPES, CABLES, OR DUCTLINES KNOWN TO EXIST BY THE ARCHITECT FROM SEARCH OF RECORDS ARE INDICATED ON PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING THE AREA. ALL DAMAGED PORTIONS SHALL BE REPLACED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE AFFECTED UTILITY COMPANY AND SHALL BE THE CONTRACTORS RESPONSIBILITY. PERSONAL INJURY RESULTING FROM CONTACT WITH EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. WHEREVER CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES ARE SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR NEW LINES.
- 10. ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS. SHALL BE PROTECTED AT ALL TIMES BY THE CONTRACTOR DURING CONSTRUCTION AND ANY DAMAGE TO THE EXISTING UTILITIES SHALL BE REPAIRED AND PAID FOR BY THE CONTRACTOR.
- 11. THE CONTRACTOR SHALL NOTIFY ALL AGENCIES TO VERIFY THE ACTUAL LOCATION OF ALL UTILITIES IN THE PROJECT AREA PRIOR TO EXCAVATION. THE CONTRACTOR SHALL COORDINATE THE WORK WITH THE UTILITY AGENCIES.
- 12. ALL REQUIRED UTILITY ADJUSTMENTS SUCH AS MANHOLE AND/OR VALVE BOX FRAMES AND COVERS SHALL BE DONE BY THE CONTRACTOR AND SHALL BE CONSIDERED INCIDENTAL TO THE WORK.
- 13. EXCEPT WHERE OTHERWISE DIRECTED BY THE OWNER, ALL DISPLACED MATERIALS HAVING SALVAGE VALUE SHALL BE CAREFULLY AND NEATLY STACKED OR STORED ON THE PREMISES WHERE DIRECTED BY THE OWNER AND SHALL REMAIN THE PROPERTY OF THE OWNER. ALL DISMANTLED AND DEMOLISHED MATERIALS HAVING NO SALVAGE VALUE AS DETERMINED BY THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE COMPLETELY REMOVED AND HAULED AWAY FROM THE PREMISES.
- 14. THE FACILITY SHALL REMAIN OPEN DURING THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL PROVIDE, INSTALL, AND MAINTAIN ALL NECESSARY TEMPORARY SIGNS, LIGHTS. FLARES, BARRICADES, MARKERS, CONES, AND OTHER PROTECTIVE FACILITIES FOR THE PROTECTION OF LIFE AND SAFETY. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE, AND SAFETY OF THE PUBLIC THROUGHOUT THE CONSTRUCTION PERIOD.

- PUBLIC ENTRY, AND TO PROTECT THE WORK AND ADJACENT BUILDINGS, AREAS, AND PROPERTIES FROM CONSTRUCTION ACTIVITIES. BARRIERS SHALL BE REMOVED WHEN NO
- SAFETY OF ALL PERSONS AND PROPERTY, AND THAT THIS REQUIREMENT SHALL APPLY
- 17. THE JOB SITE MUST BE LEFT IN A SAFE, SECURE CONDITION AT THE END OF EACH CONSTRUCTION WORK DAY. CLEAN UP AND REMOVE FROM THE JOB SITE ALL RUBBISH AND MAINTAIN THE PREMISES IN A CLEAN, ORDERLY CONDITION AT ALL TIMES.
- 18. UPON COMPLETION OF CONSTRUCTION THE ENTIRE JOB SITE SHALL BE CLEANED OF ALL RUBBISH AND DEBRIS.
- 20 AREAS FOR CONTRACT ZONE LIMITS, MATERIALS STORAGE, SCHEDULING OF WORK, TRASH DISPOSAL, WORKMEN'S PARKING, ETC., SHALL BE COORDINATED WITH THE OWNER. COORDINATE ALL WORK, SCHEDULING, STAGING, AND ADMINISTRATIVE REQUIREMENTS WITH THE OWNER.
- 21. ALL WORK SHALL CONFORM WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.
- 22. WHERE PEDESTRIAN WALKWAYS EXIST. THEY SHALL BE MAINTAINED IN PASSABLE CONDITION OR OTHER FACILITIES FOR PEDESTRIANS SHALL BE PROVIDED. TEMPORARY PASSAGEWAYS SHALL BE ACCESSIBLE PER 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN CHAPTER 2. SECTION 201.3 AND 206.1.
- 23. ALL REQUIRED SUBMITTALS SHALL BE PROVIDED TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO THE START OF THE WORK. THE ARCHITECT SHALL BE GIVEN SUFFICIENT TIME TO REVIEW AND RETURN SUBMITTALS SO AS NOT TO IMPACT THE CONSTRUCTION SCHEDULE.
- 24. NO BLASTING SHALL BE ALLOWED ON THIS PROJECT.
- 25. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS FROM APPROPRIATE GOVERNMENT AGENCIES.
- 26. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR UTILITY USAGE WITH THE OWNER, SUCH AS ELECTRICITY, WATER, ETC REQUIRED FOR CONSTRUCTION OPERATIONS.
- 27. THE CONTRACTOR SHALL TONE ALL AREAS OF THE RIGHT OF WAY & THE SITE THAT WILL BE AFFECTED BY THE WORK PRIOR TO SAWCUTTING, TRENCHING, EXCAVATION, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING INFRASTRUCTURE.
- 28. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER REGARDING INFECTION CONTROL PRIOR TO CONSTRUCTION. SEE KONA COMMUNITY HOSPITAL'S INFECTION CONTROL RISK ASSESSMENT (ICRA) REQUIREMENTS FOR MORE INFORMATION.

# LIST OF CONSULTANTS

ARCHITECT ERSKINE ARCHITECTS, IN. 540 LAGOON DRIVE, SUITE 4 HONOLULU, HAWAII 96819

ELECTRICAL ENGINEER
ENGINEERING PARTNERS, INC 455 E LANIKAULA STREET HILO. HAWAII 96720

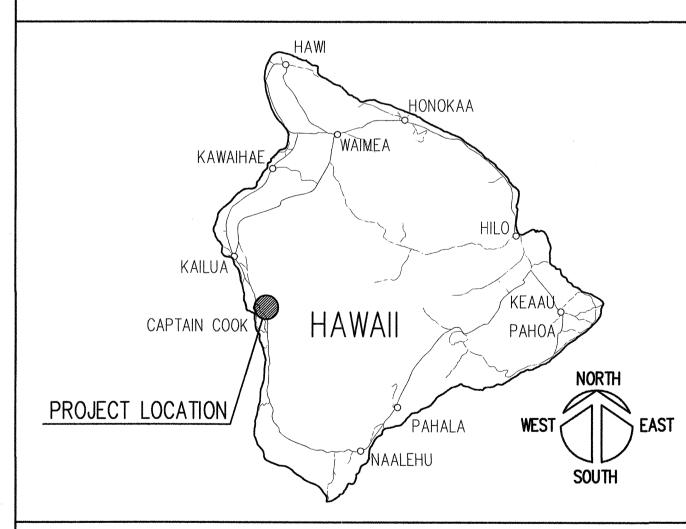
HILO, HAWAII 96720

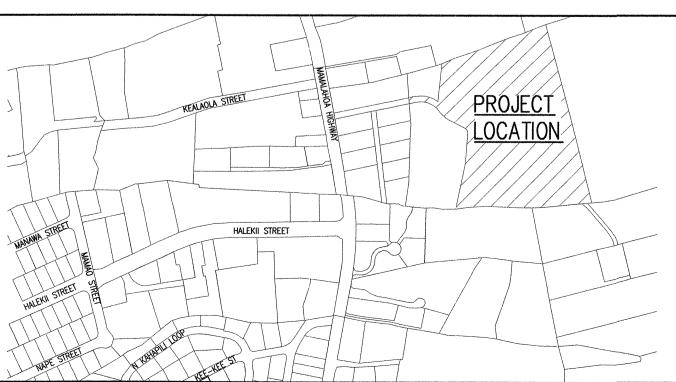
MECHANICAL ENGINEER
THERMAL ENGINEERING CORPORATION 512 KALIHI STREET HONOLULU, HAWAII 96819

FIRE PROTECTION ENGINEER
THERMAL ENGINEERING CORPORATION 512 KALIHI STREET HONOLULU, HAWAII 96819

ENVIRONMENTAL ENGINEER
ENVIROSERVICES & TRAINING CENTER, LLC 505 WARD AVENUE, SUITE 202 HONOLULU. HAWAII 96814

# **VICINITY MAP**





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A-004 PARTITION TYPES

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# HAWAII HEALTH SYSTEMS CORPORATION Quality Healthcare for All



# **KONA COMMUNITY HOSPITAL**

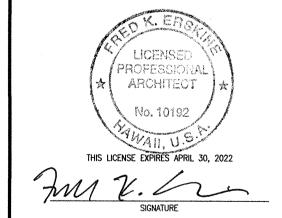
79-1019 HAUKAPILA STREET KEALAKEKUA, HAWAII 96750

ANDAIRS ORAT ROOM, JS REF  $\bigcirc$  $\bigcirc$ RA

REVISION DATE



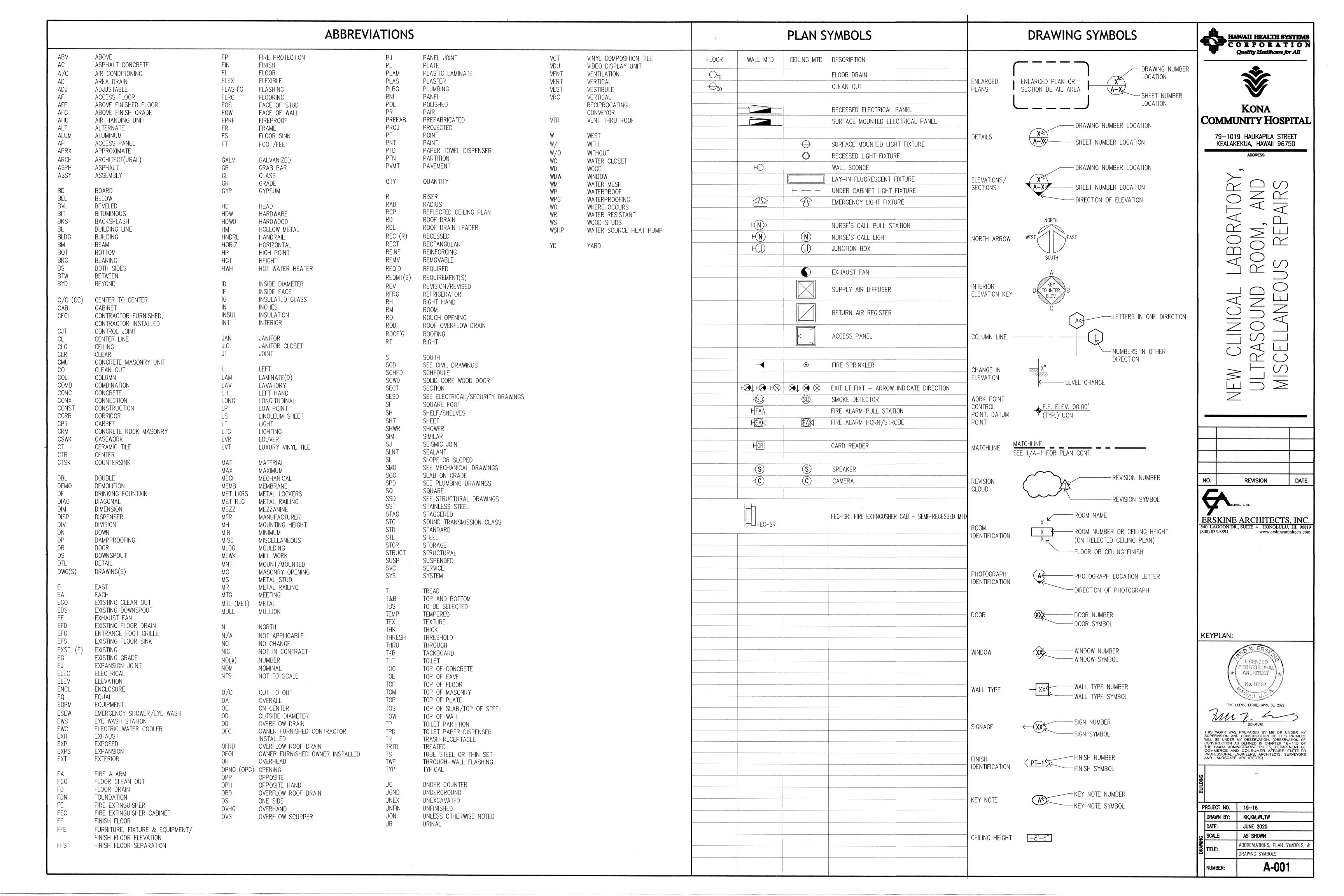
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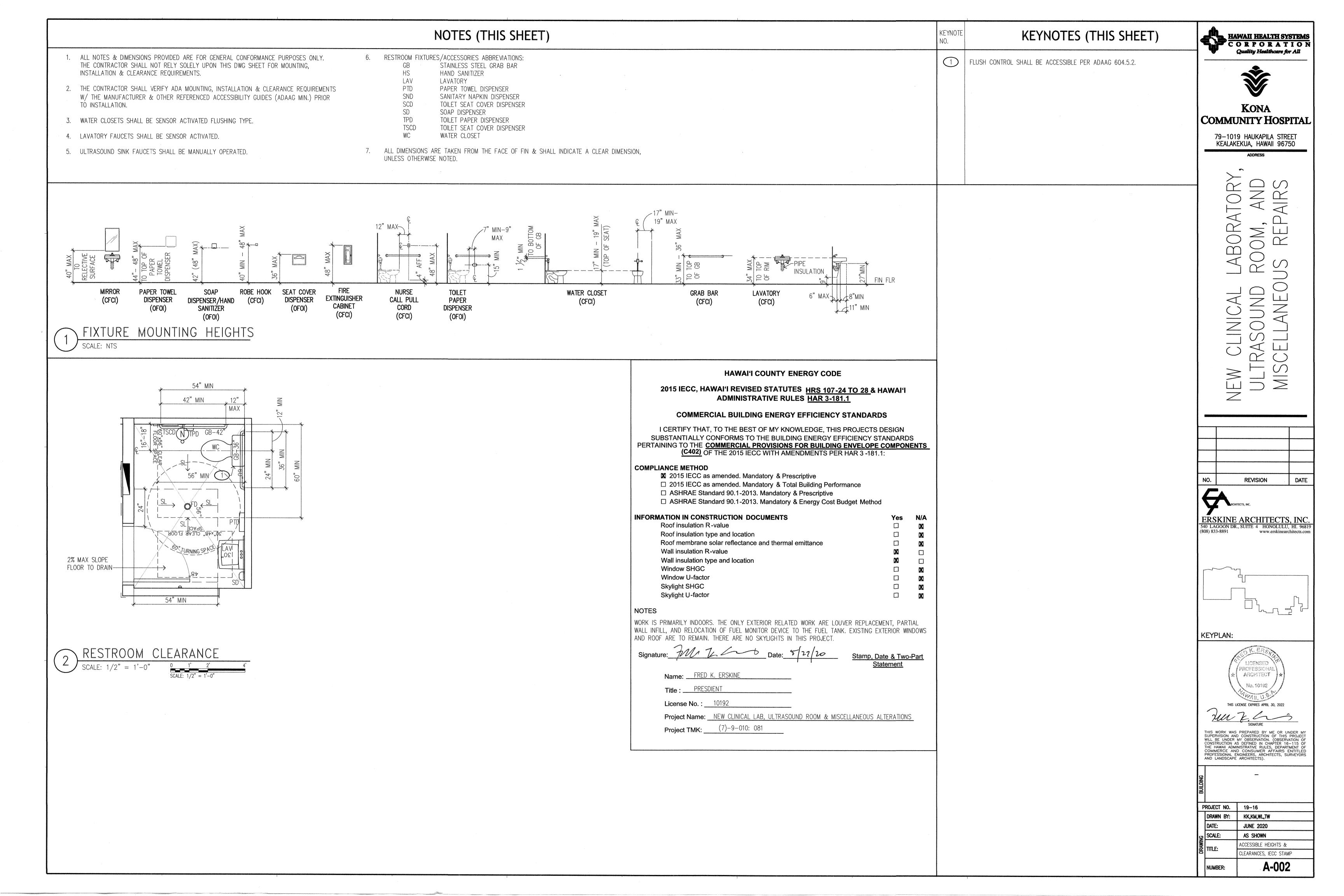


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF CONSTRUCTION AS DEFINED IN CHAPTER 16-115 OF THE HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS ENTITLED PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS).

SHEET
SHOWN
NE 2020
K,KM,WL,TW
<b>)–16</b>

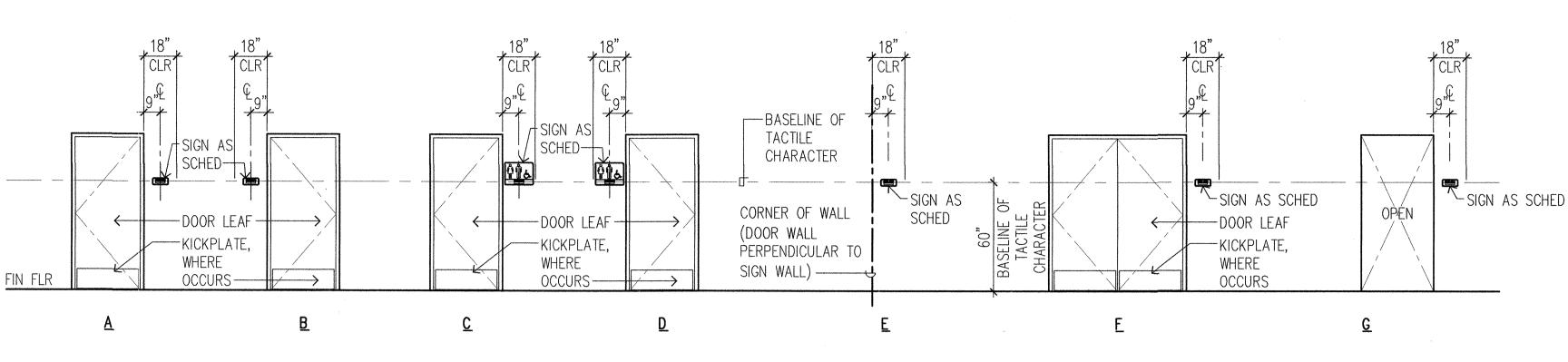
# LOCATION MAP



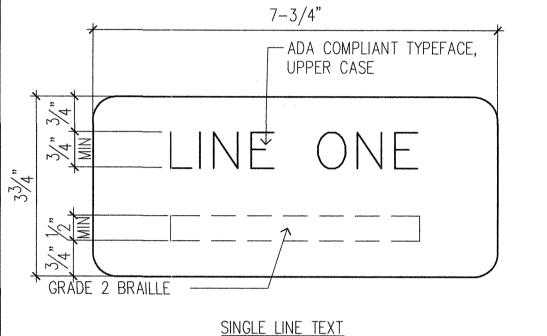




1. SIZES INDICATED ARE FOR DESIGN REFERENCE. CONTRACTOR SHALL VERIFY ON-SITE CONDITION DIMENSIONS TO DETERMINE ACTUAL SIZES TO BE ORDERED. CONFIRM FINAL SIZES W/ ARCHITECT BEFORE ORDERING. 2. PROVIDE ADAAG COMPLIANT SIGNAGE.



# SIGN MOUNTING KEY



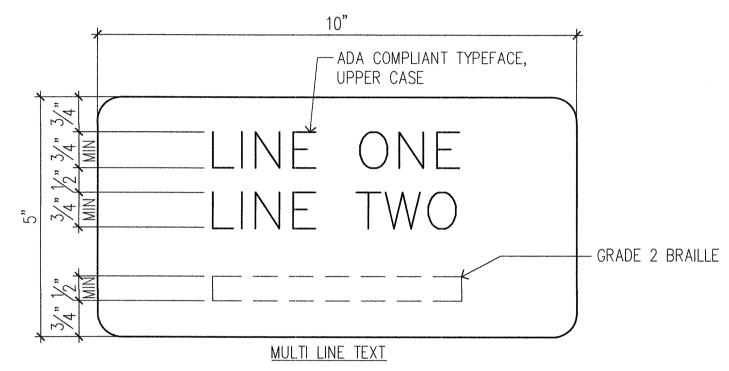
# SIGNAGE MATERIAL:

1. COMPLY WITH 2010 ADAAG SECTION 703 SIGNAGE.

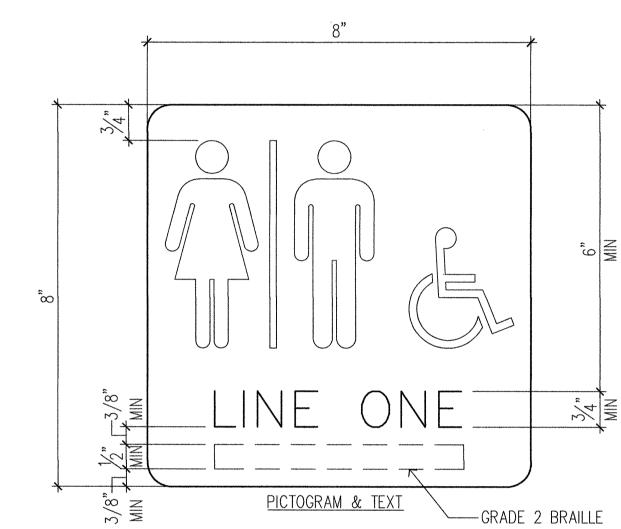
SIGN DETAIL

SCALE: NOT TO SCALE

- 2. MATERIAL: CAST-ACRYLIC SHEET: SUBMIT FULL RANGE OF MANUFACTURER'S STANDARD COLOR TO BE SELECTED BY ARCHITECT & OWNER.
- 3. TACTILE AND BRAILLE COPY: MANUFACTURER'S STANDARD PROCESS FOR PRODUCING COPY COMPLYING WITH ADA ACCESSIBILITY GUIDELINES AND ICC/ANSI A117.1. TEXT SHALL BE ACCOMPANIED BY GRADE 2 BRAILLE. PRODUCE PRÉCISELY FORMED CHARACTERS WITH SQUARE CUT EDGES FREE FROM BURRS AND CUT MARKS.
- A. PANEL MATERIAL: OPAQUE ACRYLIC SHEET PHOTOPOLYMER CLEAR ACRYLIC SHEET WITH OPAQUE COLOR COATING, SUBSURFACE APPLIED.
- B. RAISED-COPY THICKNESS: NOT LESS THAN 1/32 INCH (0.8 MM).



- 4. CHARACTERS MUST CONTRAST WITH BACKGROUND. LIGHT CHARACTERS ON DARK BACKGROUND.
- 5. MOUNTING: SIGNS SHALL BE MOUNTED WITH VANDAL-PROOFSTAINLESS STEEL SCREW FASTENERS. NO DOUBLE-STICK TAPE OR ADHESIVES SHALL BE FOR SIGNS LOCATED ON EXTERIOR WALLS.
- 6. IF SIGN LENGTH EXCEEDS AVAILABLE WALL WIDTH, TEXT SHALL BE PLACED ON TWO OR MORE LINES, AS REQ'D.



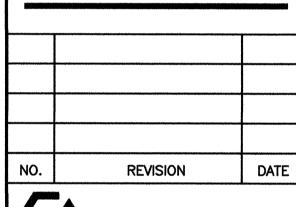




**KONA COMMUNITY HOSPITAL** 

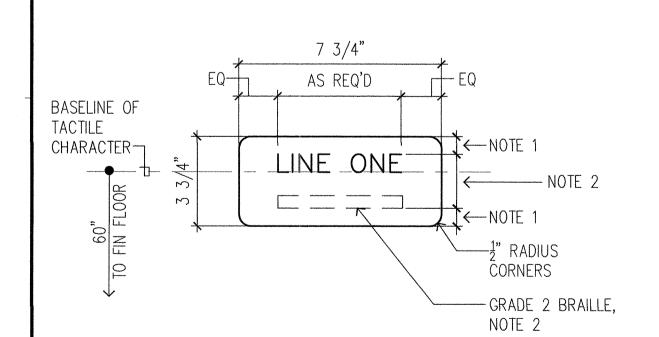
> 79-1019 HAUKAPILA STREET KEALAKEKUA, HAWAII 96750

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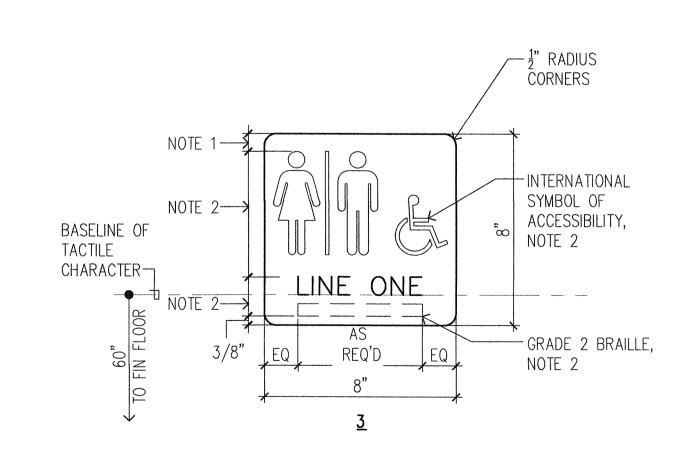


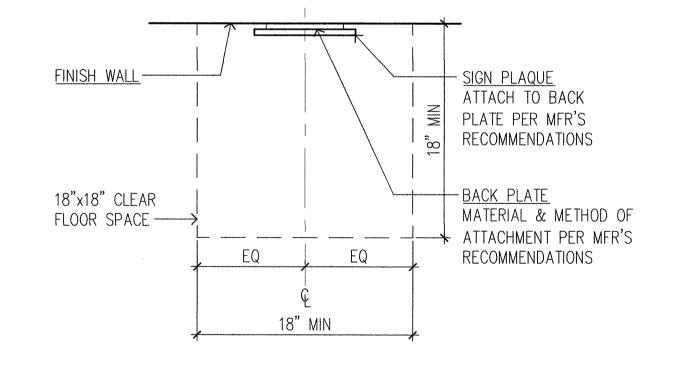
ERSKINE ARCHITECTS, INC



BASELINE OF TACTILE ─ ½" RADIUS CORNERS CHARACTER-LINE ONE -GRADE 2 BRAILLE, NOTE 2 AS REQ'D

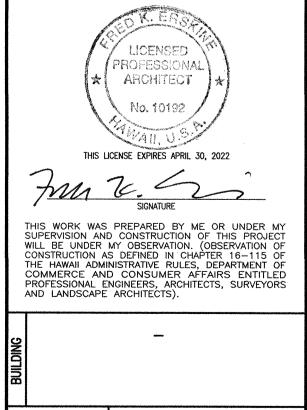
- 1. DIMENSION FROM TOP & BOTTOM OF TEXT TO SIGN EDGE SHALL BE  $\frac{3}{4}$ "
- 2. TEXT, BRAILLE & PICTORIAL SYMBOL SHALL COMPLY WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, SECTION 703.
- 3. IF SIGN LENGTH EXCEEDS AVAILABLE WALL WIDTH, TEXT SHALL BE PLACED
- 4. ALL SIGNAGE BY JOHN ALLEN SIGNS, NO EXCEPTIONS.





- 1. CONTRACTOR SHALL VERIFY SIZE OF PROPOSED SIGN W/ MOUNTING LOCATION SHOWN & NOTIFY ARCHITECT PRIOR TO SIGN FABRICATION OF ANY SIGN THAT EXCEED THE AVAILABLE WALL SPACE.
- 2. WHERE GLAZING OCCURS, CONTRACTOR SHALL MOUNT SIGN ACCORDING TO SIGN MANUFACTURER'S INSTRUCTIONS.



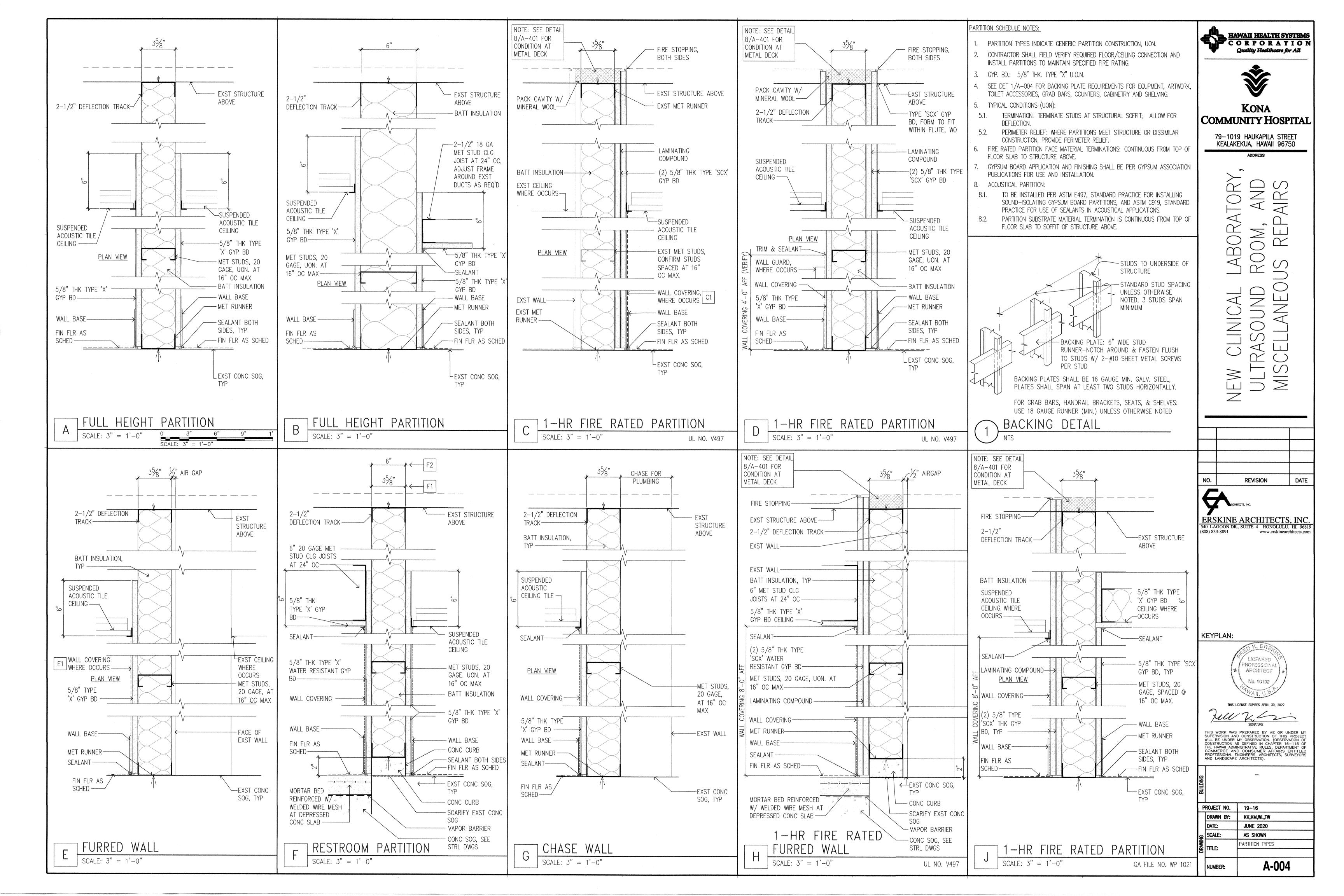


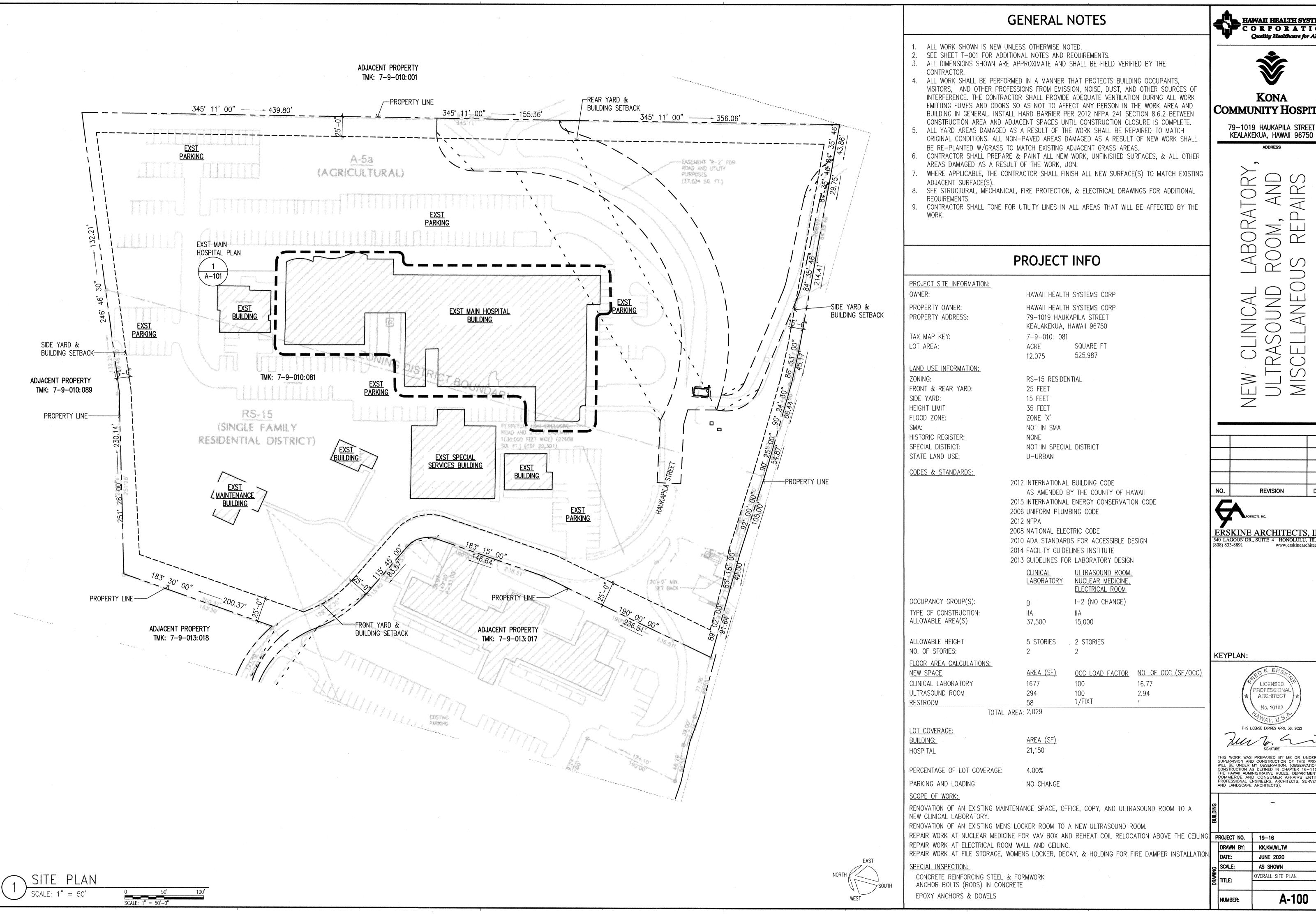
**KEYPLAN:** 

PROJECT NO. 19-16 DRAWN BY: KK,KM,WL,TW JUNE 2020 SCALE: AS SHOWN SIGN SCHEDULE & DETAILS A-003 NUMBER:



ON TWO OR MORE LINES, AS REQ'D.









**KONA COMMUNITY HOSPITAL** 

KEALAKEKUA, HAWAII 96750

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REVISION

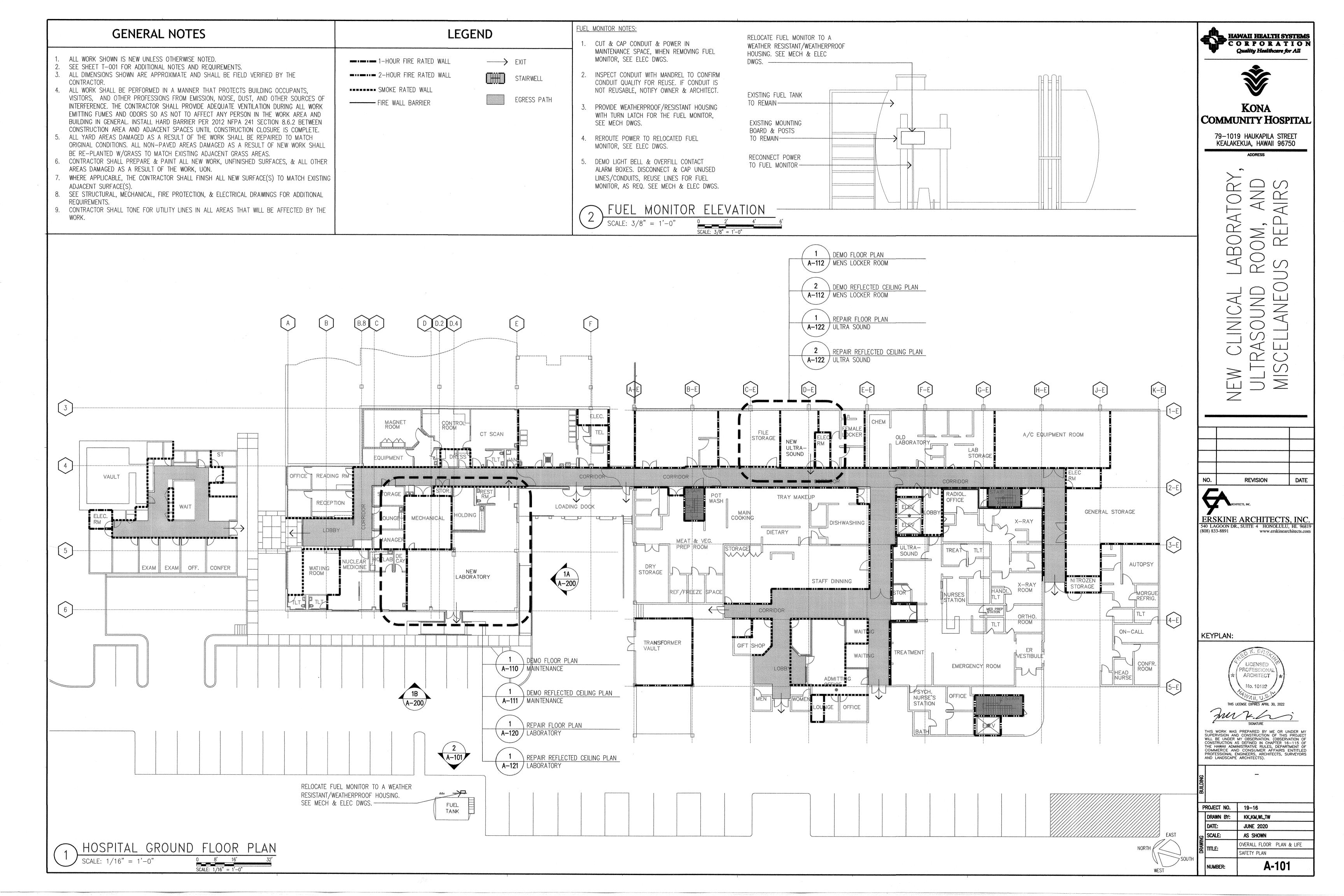
ERSKINE ARCHITECTS, INC. www.erskinearchitects.con

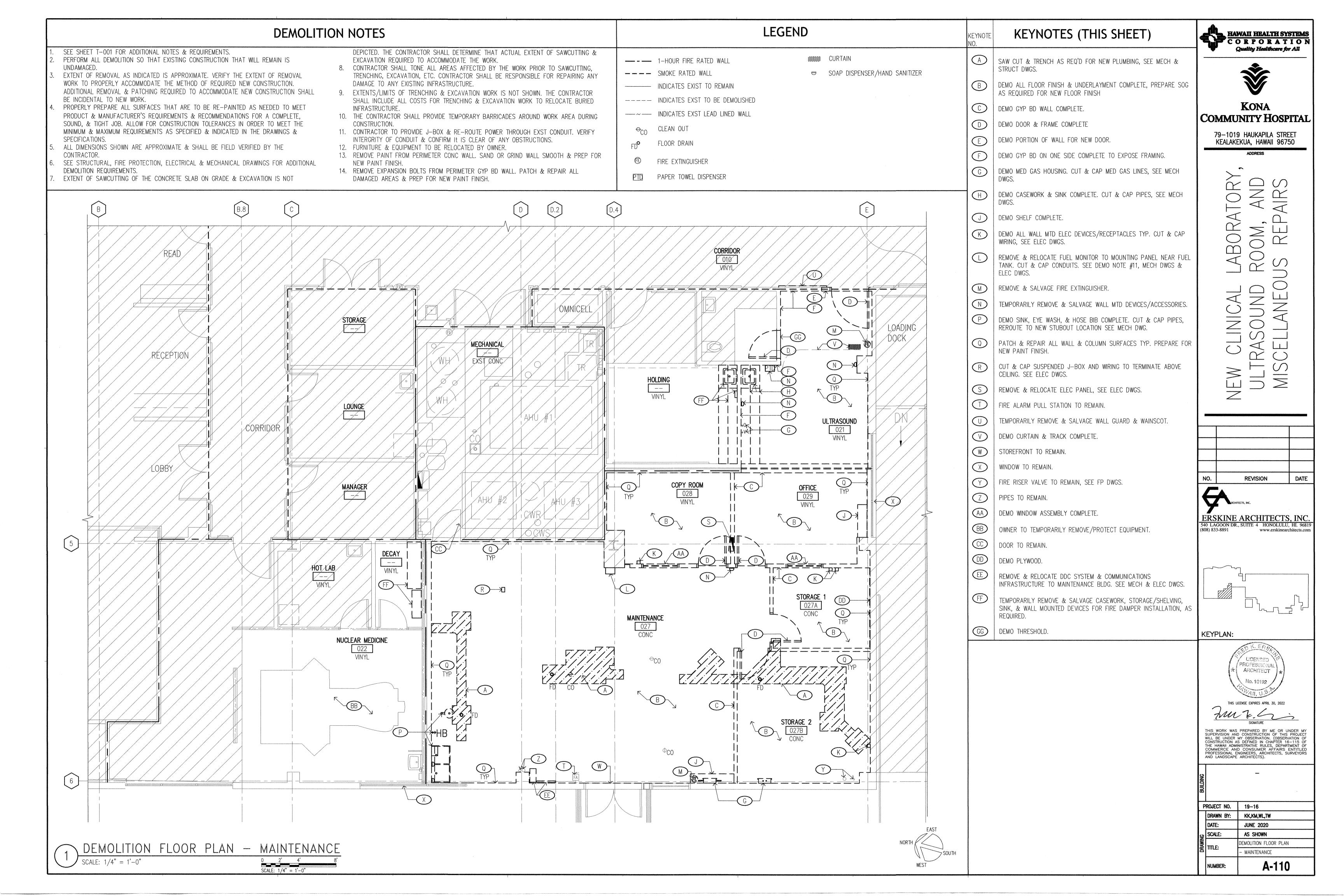
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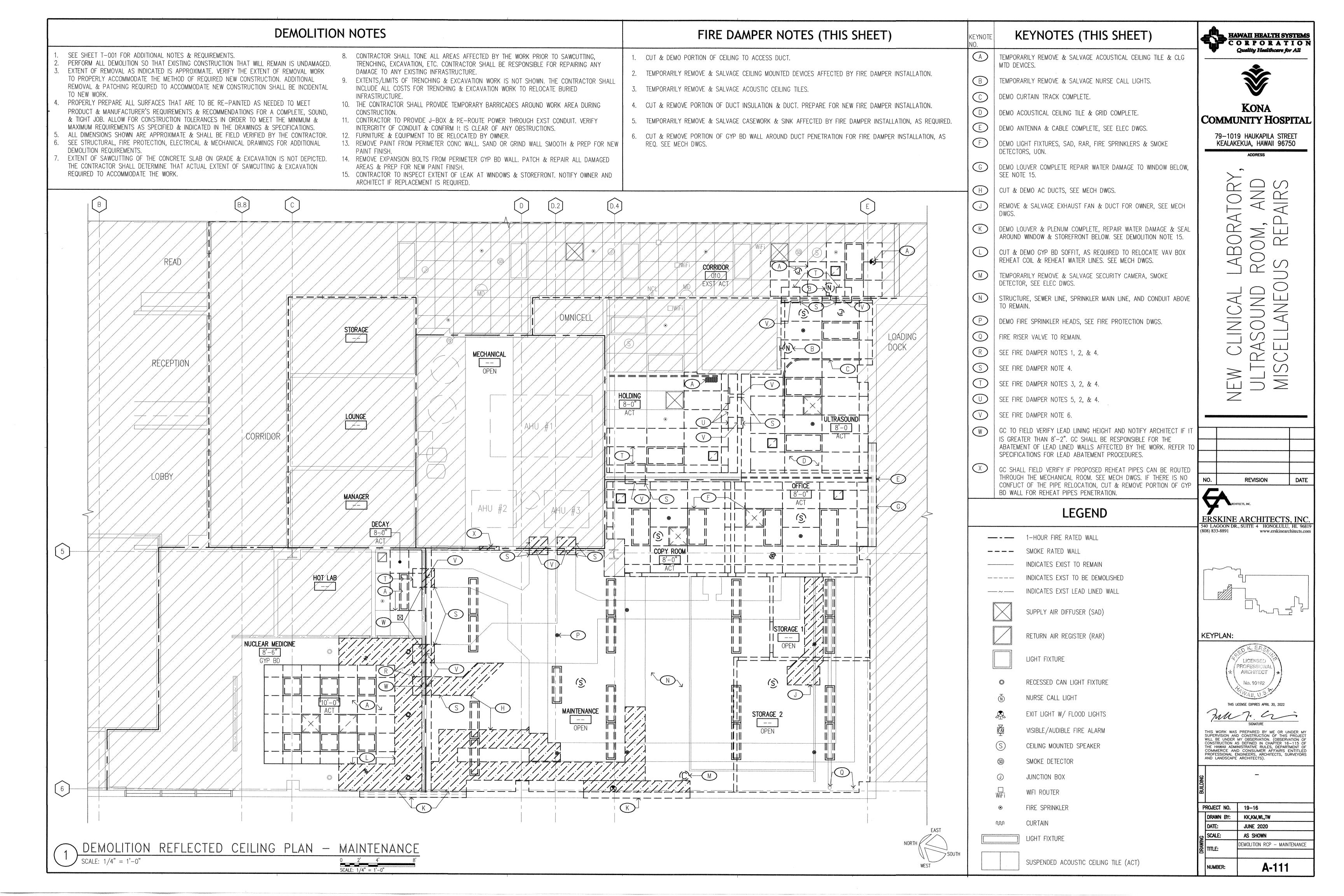
ARCHITECT

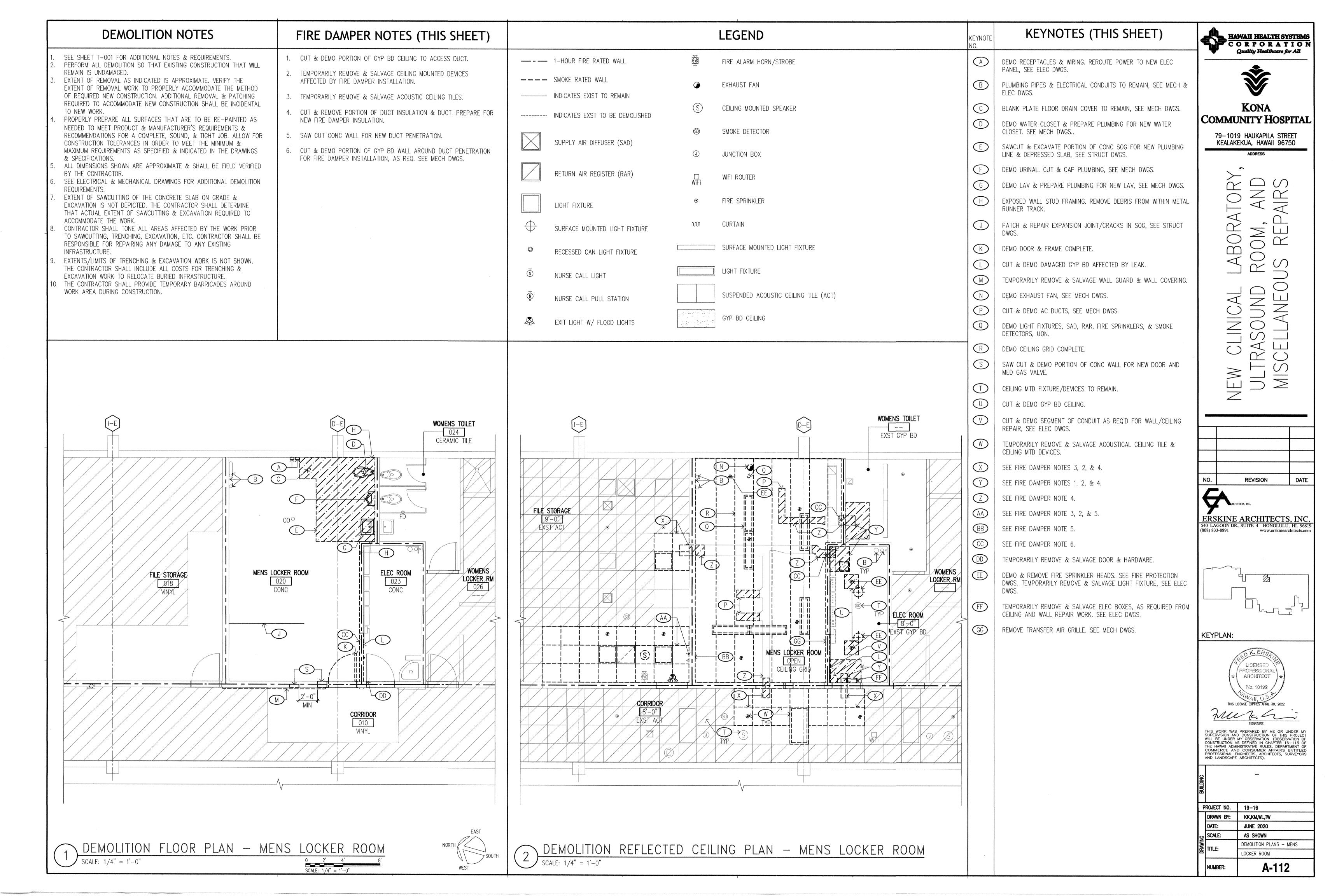
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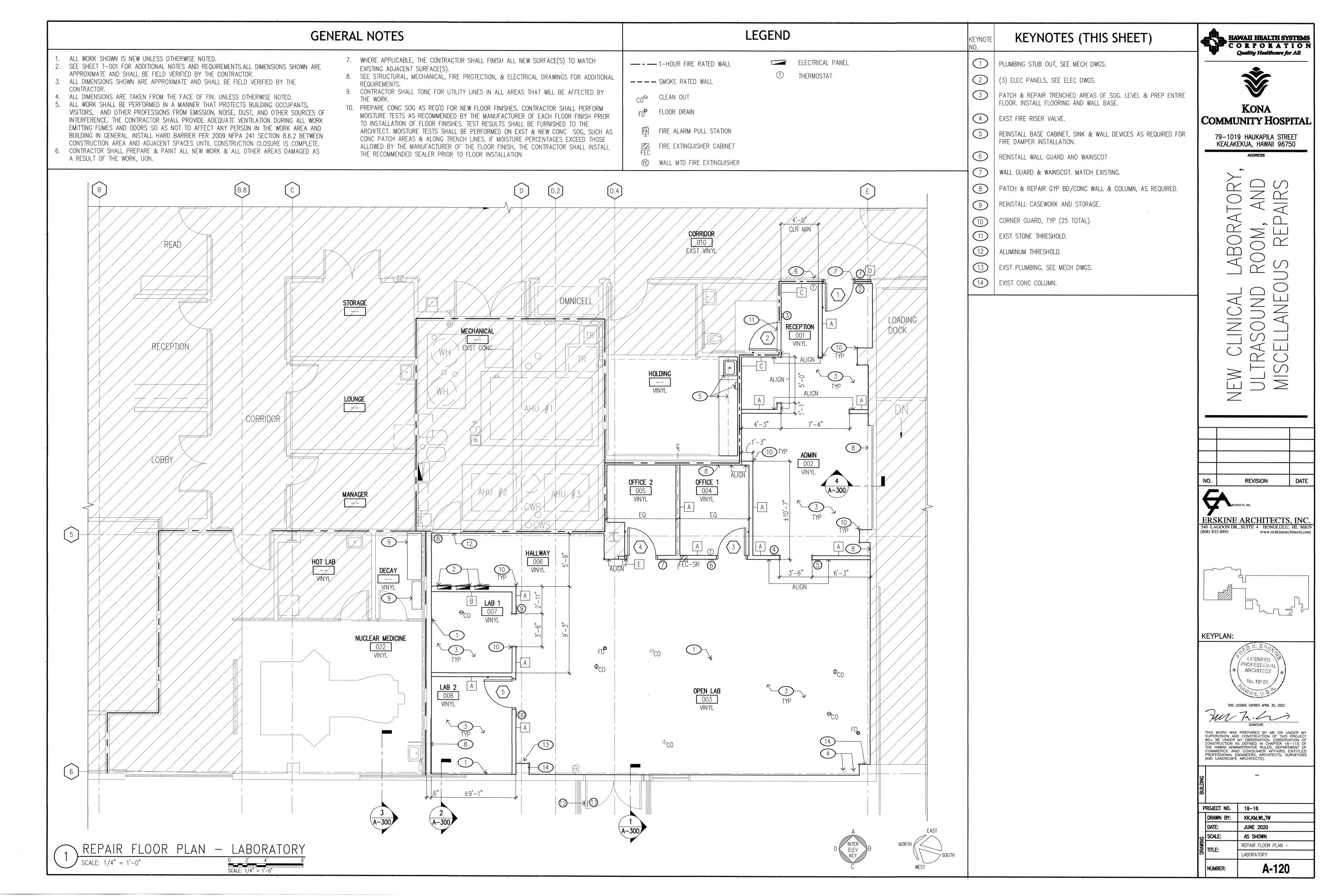
KK,KM,WL,TW JUNE 2020 AS SHOWN OVERALL SITE PLAN











# **GENERAL NOTES**

STORAGE

CORRIDOR

CONNECTION-

CONNECTION-

- ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED.
- SEE SHEET T-001 FOR ADDITIONAL NOTES AND REQUIREMENTS.ALL DIMENSIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR
- ALL DIMENSIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE
- ALL DIMENSIONS ARE TAKEN FROM THE FACE OF FIN. UNLESS OTHERWISE NOTED.
- ALL WORK SHALL BE PERFORMED IN A MANNER THAT PROTECTS BUILDING OCCUPANTS VISITORS, AND OTHER PROFESSIONS FROM EMISSION, NOISE, DUST, AND OTHER SOURCES OF INTERFERENCE. THE CONTRACTOR SHALL PROVIDE ADEQUATE VENTILATION DURING ALL WORK EMITTING FUMES AND ODORS SO AS NOT TO AFFECT ANY PERSON IN THE WORK AREA AND BUILDING IN GENERAL. INSTALL HARD BARRIER PER 2012 NFPA 241 SECTION 8.6.2 BETWEEN CONSTRUCTION AREA AND ADJACENT SPACES UNTIL CONSTRUCTION CLOSURE IS COMPLETE.
- 6. ALL YARD AREAS DAMAGED AS A RESULT OF THE WORK SHALL BE REPAIRED TO MATCH ORIGINAL CONDITIONS. ALL NON-PAVED AREAS DAMAGED AS A RESULT OF NEW WORK
- SHALL BE RE-PLANTED W/GRASS TO MATCH EXISTING ADJACENT GRASS AREAS. 7. CONTRACTOR SHALL PREPARE & PAINT ALL NEW WORK & ALL OTHER AREAS DAMAGED AS A RESULT OF THE WORK, UON.
- 8. WHERE APPLICABLE, THE CONTRACTOR SHALL FINISH ALL NEW SURFACE(S) TO MATCH EXISTING ADJACENT SURFACE(S).
- 9. SEE STRUCTURAL, MECHANICAL, FIRE PROTECTION, & ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- 10. CONTRACTOR SHALL TONE FOR UTILITY LINES IN ALL AREAS THAT WILL BE AFFECTED BY THE WORK.

MECHANICAL

A-401

# FIRE DAMPER NOTES (THIS SHEET)

INSTALL FIRE DAMPER & CONNECT TO DUCT PER MANUFACTURER'S RECOMMENDATIONS. PATCH & REPAIR WALL AROUND FIRE DAMPER PENETRATION.

- WRAP EXPOSED AREAS OF DUCT WITH INSULATION. WITHOUT AFFECTING CODE REQUIREMENTS FOR THE FIRE DAMPER
- INSTALL/PATCH & REPAIR GYP BD CEILING. MATCH EXISTING FINISH.

CORRIDOR

EXST AC

OFFICE 1

- 4. REINSTALL CASEWORK, SINK, & WALL MOUNTED DEVICES, AS REQUIRED FOR FIRE DAMPER INSTALLATION. MATCH EXISTING FINISH.
- INSTALL/REINSTALL SUSPENDED ACOUSTICAL CEILING TILE.

SEE MECH DWGS.

D.4

OFFICE 2

- INSTALL/REINSTALL CEILING DEVICES & FIXTURES AFFECTED BY THE FIRE DAMPER INSTALLATION. PATCH & REPAIR PORTION OF GYP BD WALL AROUND DUCT PENETRATION AFTER FIRE DAMPER INSTALLATION AS REQ.
- JUNCTION BOXES ABOVE CEILING, SEE ELEC DWGS.

UP PAINT AROUND PERIMETER TO MATCH EXST.

PATCH & REPAIR WALL PENETRATION.

GYP BD WINDOW HEADER W/ DEFS FINISH, MATCH EXISTING.

REINSTALL EXISTING CEILING GRID, ACT, & CEILING MTD

DEVICES/FIXTURES. REPLACE DAMAGED ITEMS AS REQ'D.

LOUVER FOR OUTSIDE AIR INTAKE PLENUM, SEE MECH DWGS. TOUCH

- GYP BD SOFFIT.
- REINSTALL NURSE CALL LIGHT.
- SEE FIRE DAMPER NOTES: 1, 2, 4, 5, & 6.
- SEE FIRE DAMPER NOTES: 1, 2, 3, & 6.
- SEE FIRE DAMPER NOTES: 1, 2, 5, & 6.
- SEE FIRE DAMPER NOTES: 1, 2, & 6.
- SEE FIRE DAMPER NOTE 7.

LOADING DOEK.

RECEPTION 8'-0"

FIELD VERIFY IF WALL IS LEAD LINED. IF LEAD LINING EXISTS AND HEIGHT IS GREATER THAN 8'-2", NOTIFY THE ARCHITECT PRIOR TO THE START OF WORK. GC SHALL BE RESPONSIBLE FOR THE PROPER PATCH & REPAIR OF LEAD LINED WALLS AFFECTED BY THE WORK. REFER TO SPECIFICATIONS FOR LEAD ABATEMENT & HANDLING PROCEDURES.

# LEGEND

1-HOUR FIRE RATED WALL

SMOKE RATED WALL

INDICATES EXST LEAD LINED WALL

EXIT LIGHT, WALL MOUNTED W/ EMERGENCY LIGHTING

SMOKE DETECTOR

JUNCTION BOX ABOVE CEILING

EMERGENCY LIGHT

SUPPLY AIR DIFFUSER (SAD)

RETURN AIR REGISTER (RAR)

2'x2' SUSPENDED ACOUSTIC

CEILING TILE (ACT)

GYP BD CEILING

LIGHT FIXTURE

RECESSED LIGHT FIXTURE

FIRE ALARM HORN W/ STROBE

NURSE CALL LIGHT

FIRE SPRINKLER

CEILING MOUNTED SPEAKER

# **KEYNOTES (THIS SHEET)**

HAWAII HEALTH SYSTEMS CORPORATION Quality Healthcare for All

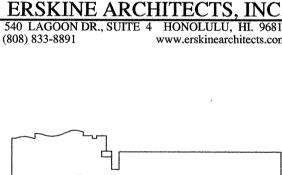


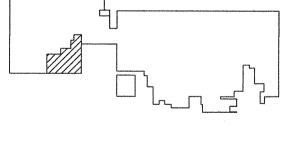
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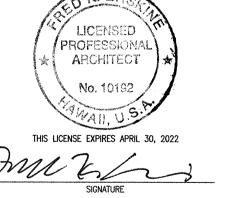
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DATE REVISION





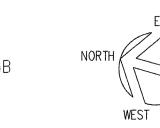




SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF CONSTRUCTION AS DEFINED IN CHAPTER 16-115 OF THE HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS ENTITLED PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS).

19-16 KK,KM,WL,TW JUNE 2020 AS SHOWN REPAIR RCP - LABORATORY

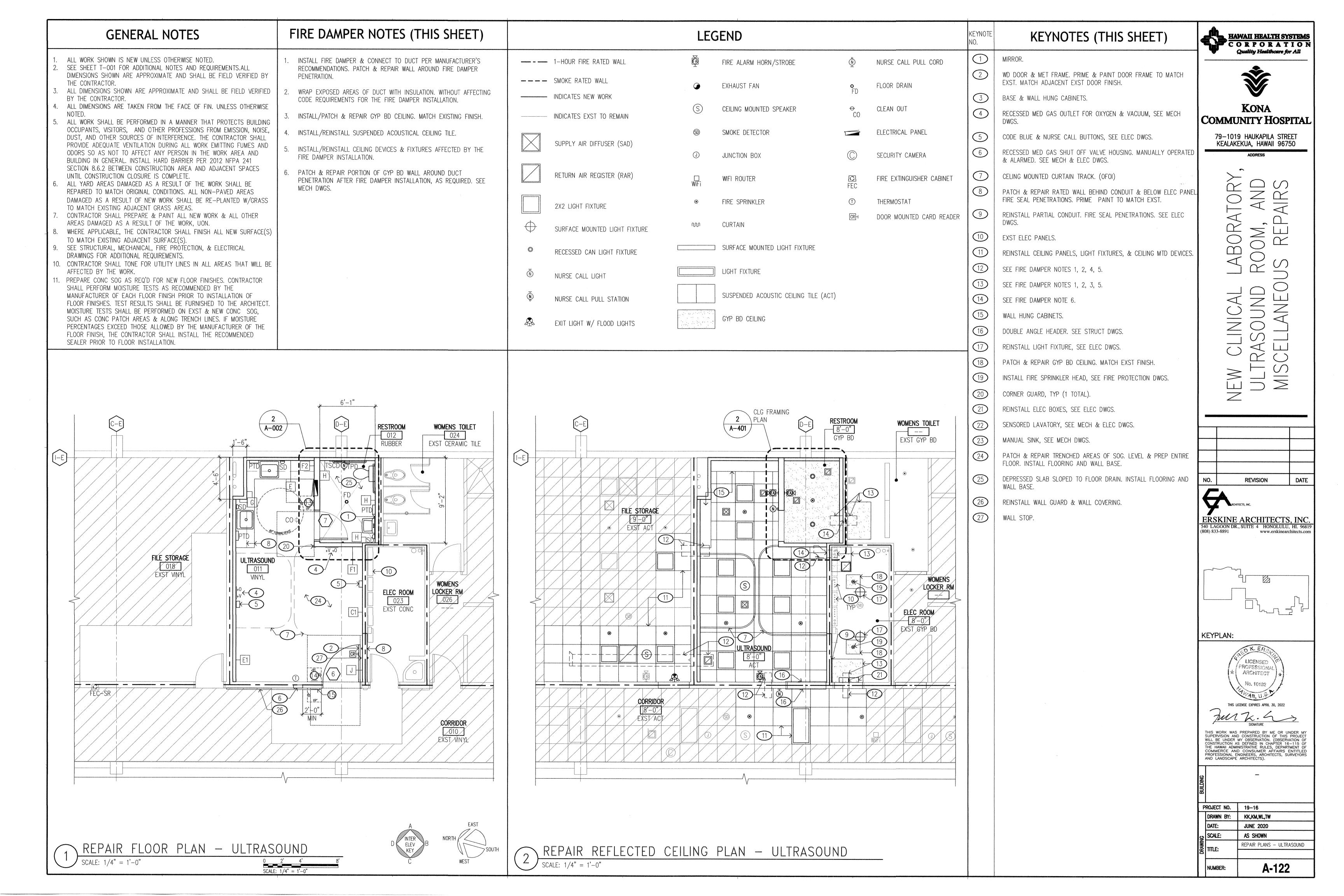
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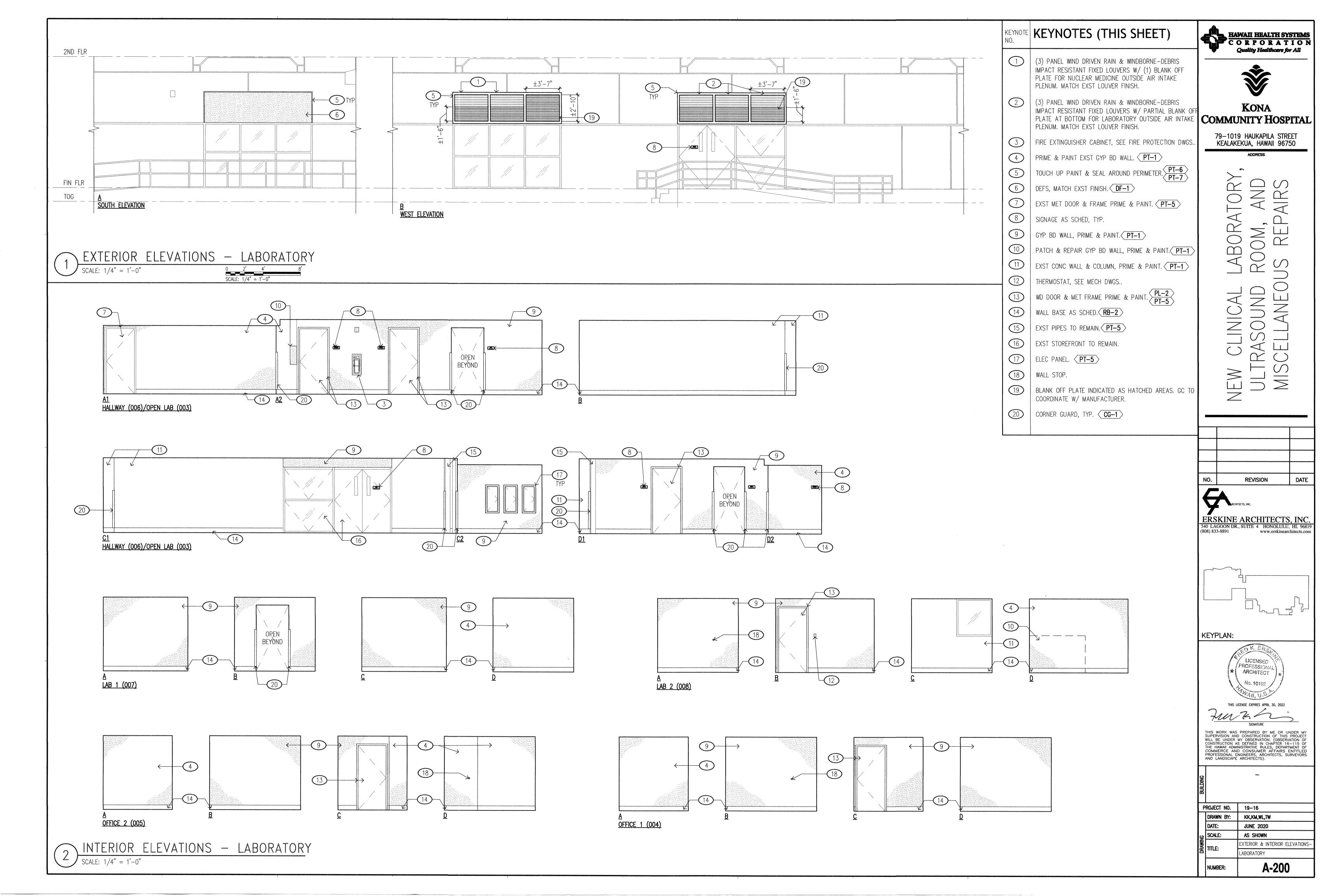


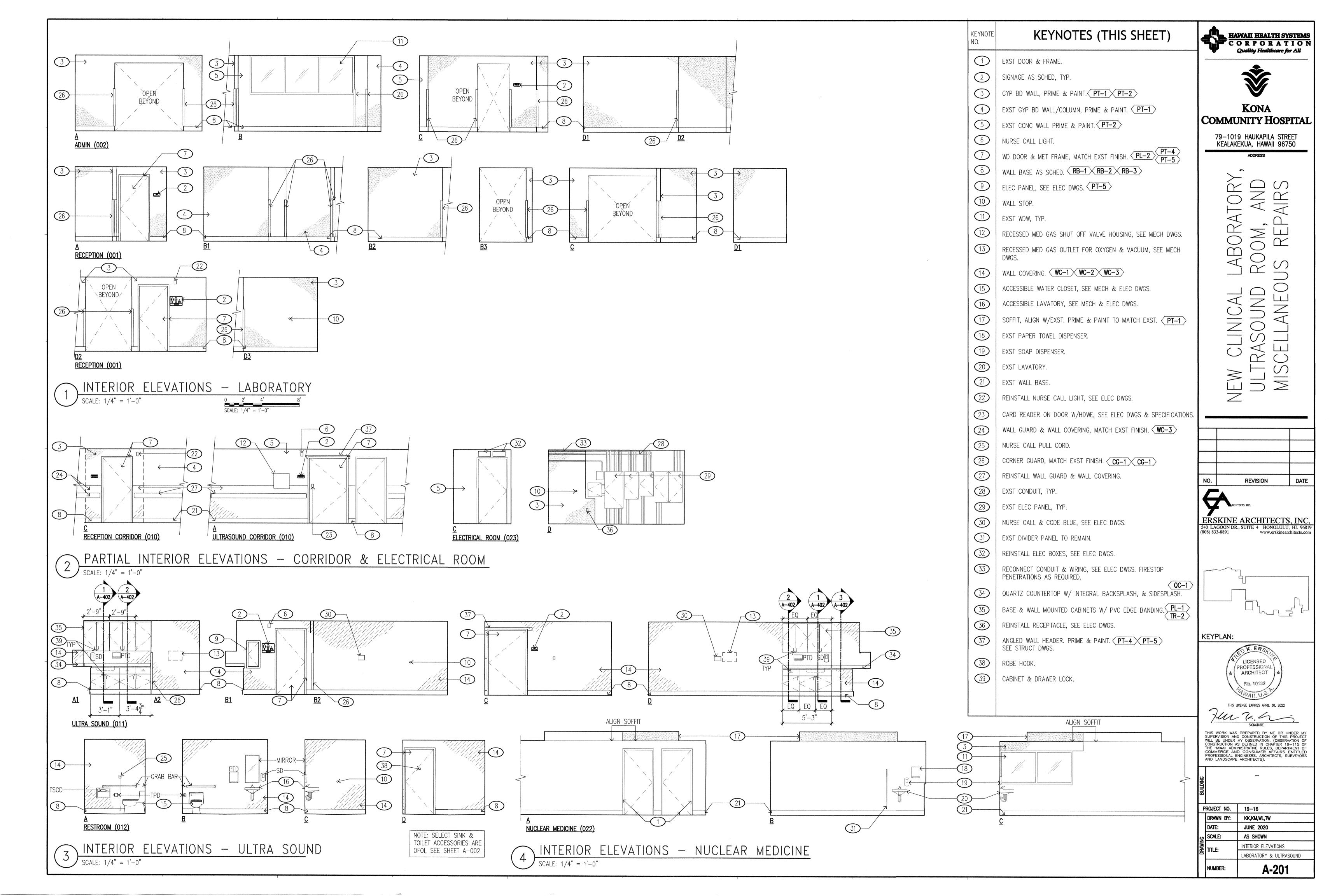


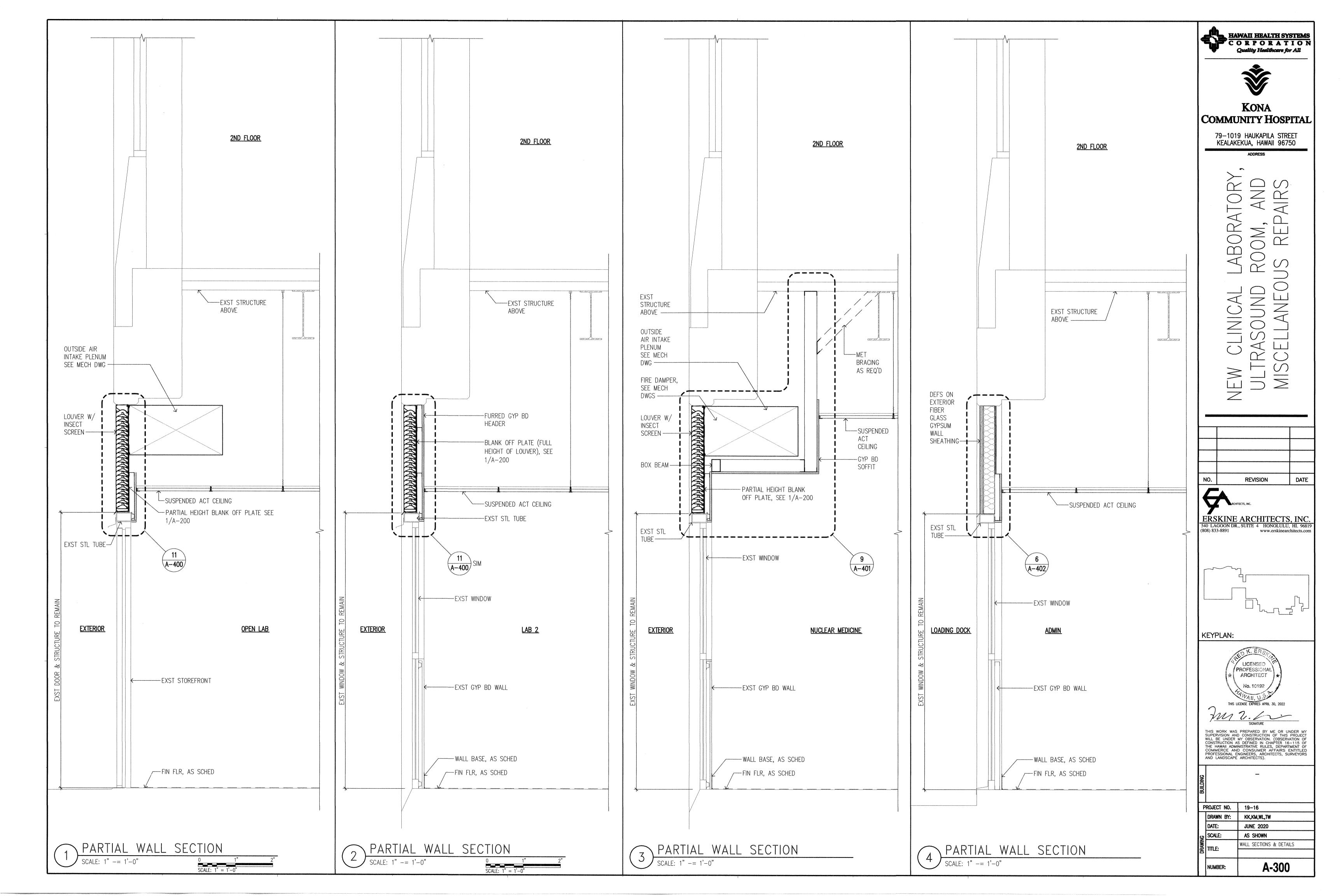
NUCLEAR MEDICINE

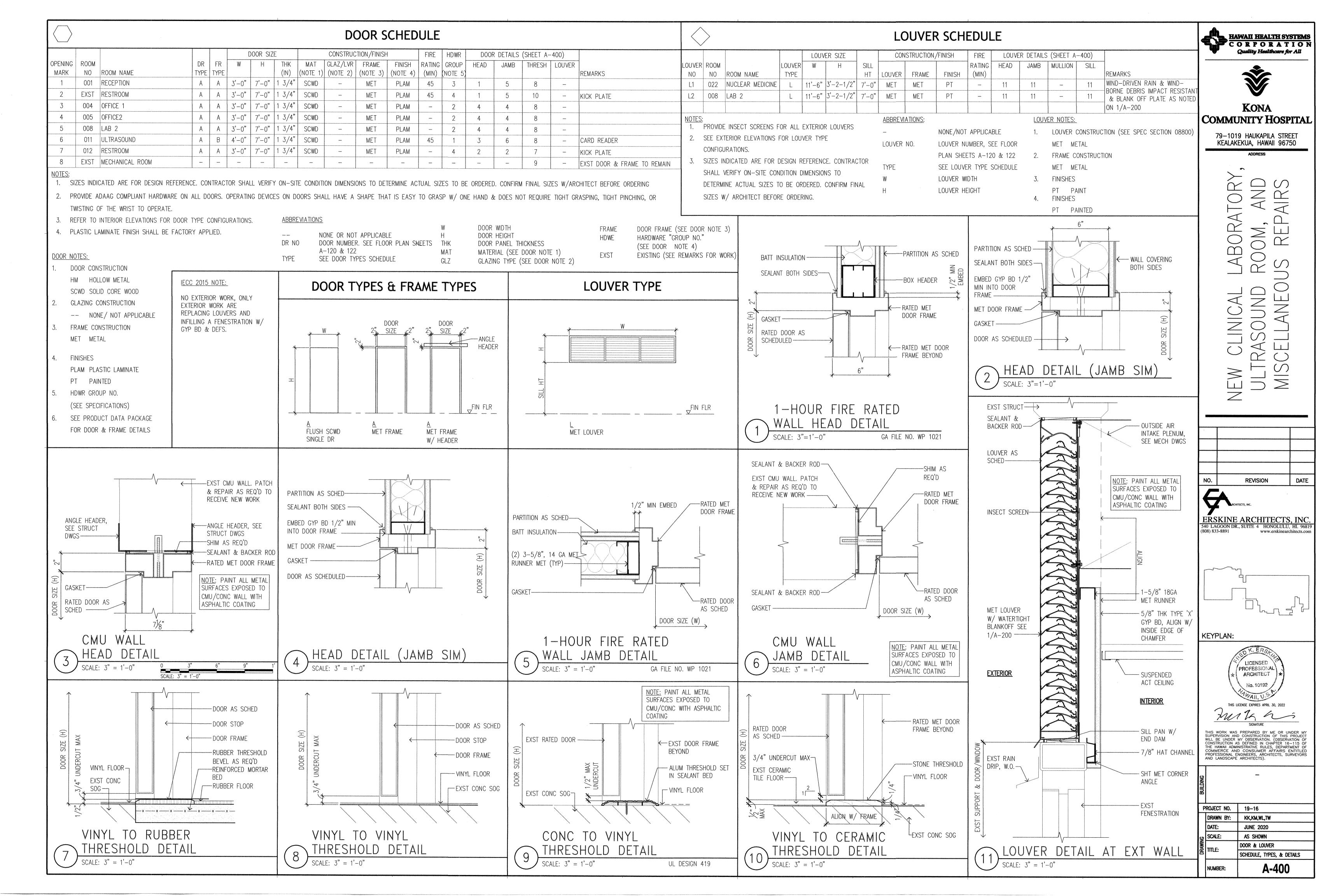
SCALE: 1/4" = 1'-0"

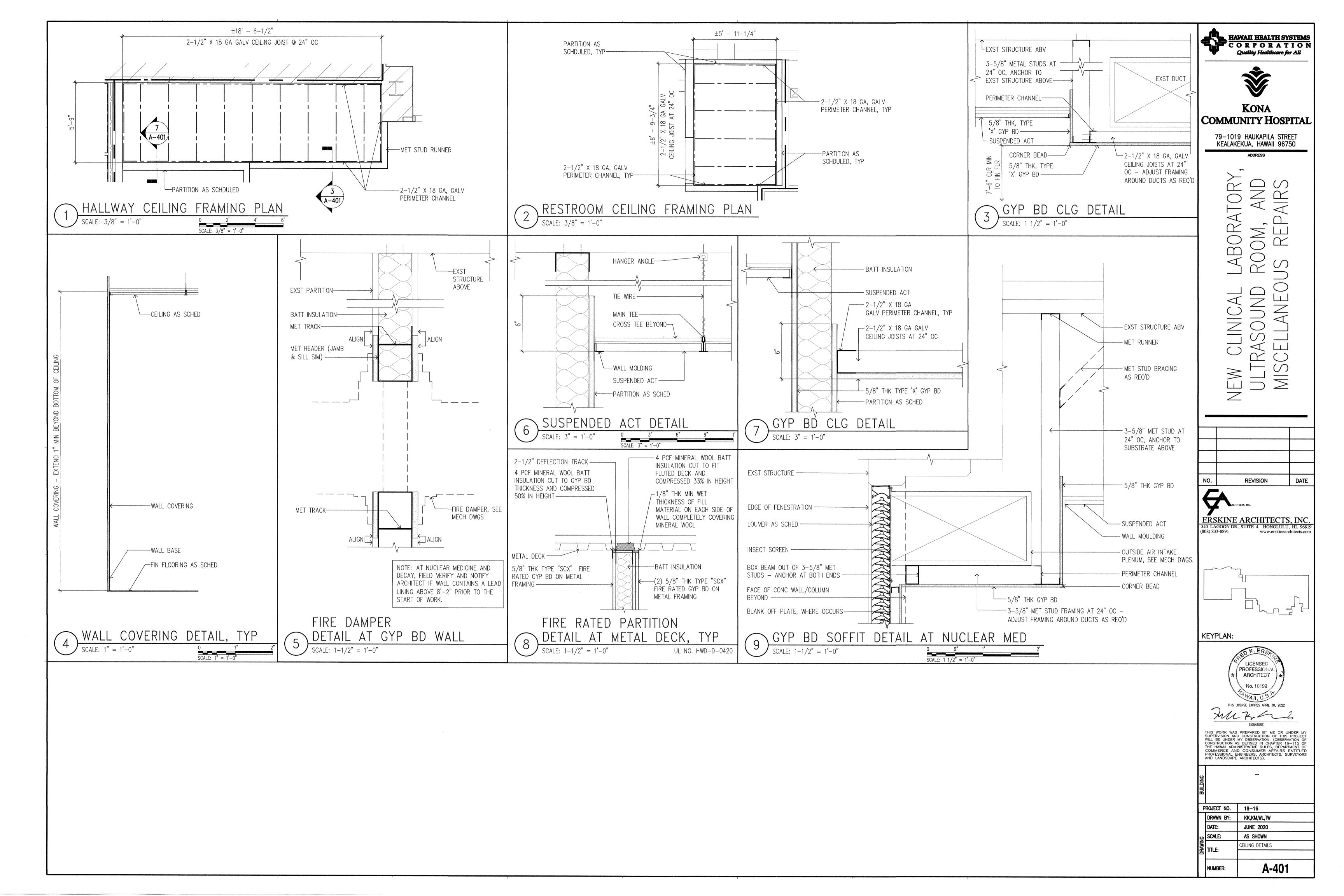


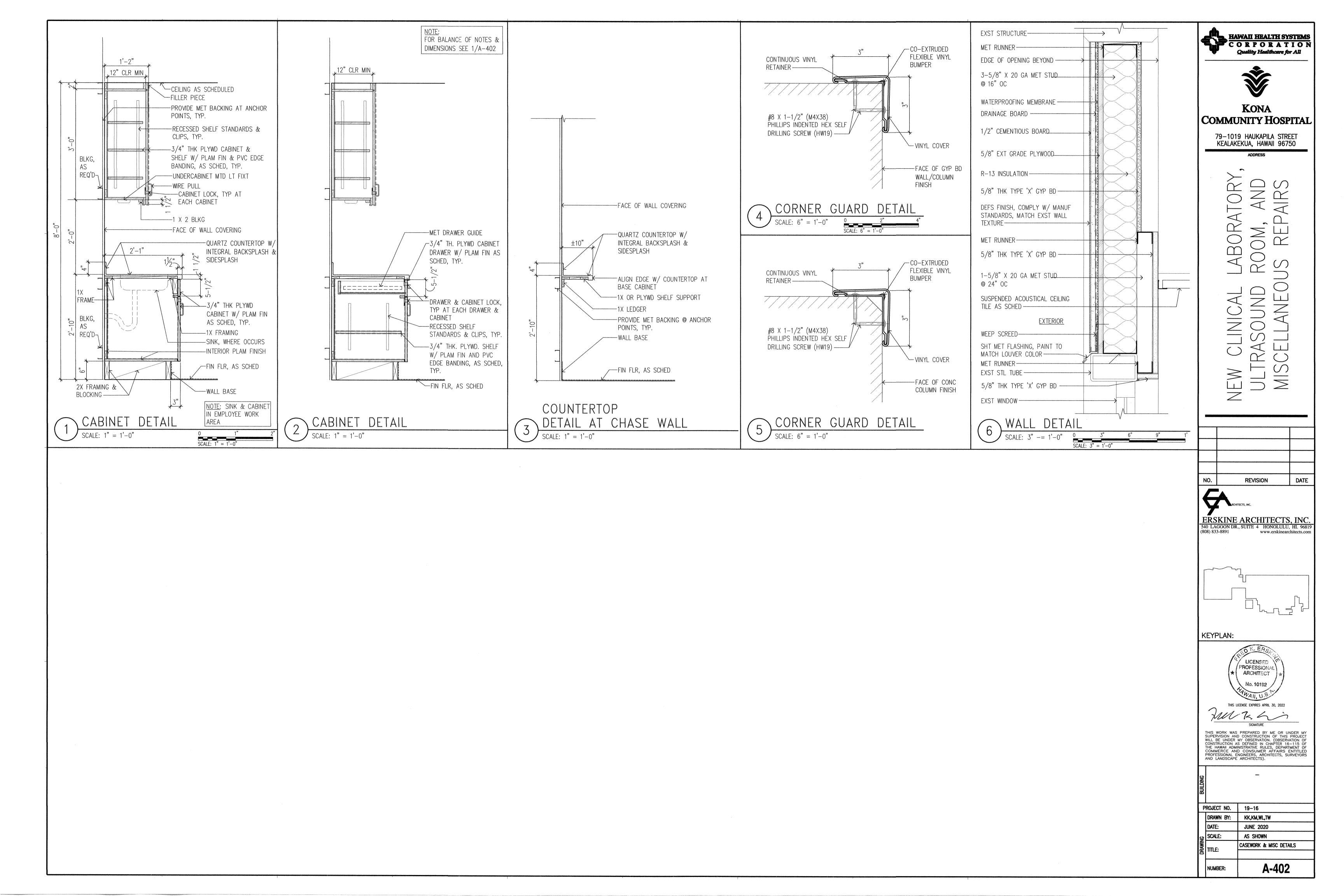


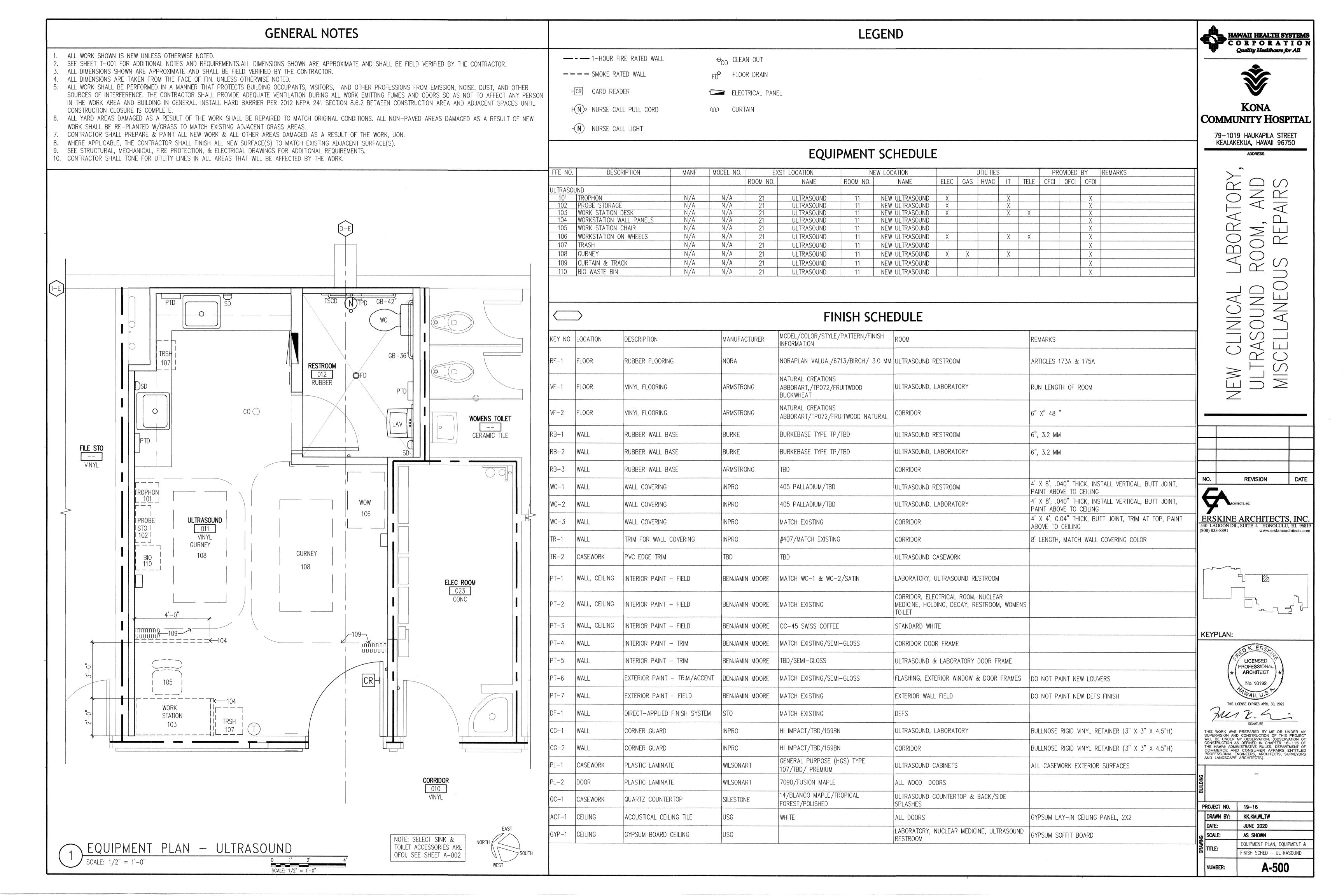












# STRUCTURAL GENERAL NOTES

- I. ALL WORK SHALL CONFORM TO THE 2012 INTERNATIONAL BUILDING CODE AS AMENDED BY THE COUNTY OF HAWAII.
- 2. STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE, AND DO NOT SPECIFY THE MEANS AND METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEANS NECESSARY TO PROTECT THE STRUCTURE, AND ANY ADJACENT NEW OR EXISTING STRUCTURES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING AND SHORING FOR LOADS ACTING ON THE STRUCTURE DURING CONSTRUCTION. OBSERVATION BY THE STRUCTURAL ENGINEER DURING CONSTRUCTION WILL NOT INCLUDE INSPECTION OF AFOREMENTIONED BRACING AND SHORING.
- 3. EXISTING CONDITIONS ARE SHOWN TO THE BEST OF OUR KNOWLEDGE. DISCREPANCIES SHALL PROMPTLY BE REPORTED TO THE ENGINEER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES, WHICH MAY BE AFFECTED BY ITS WORK. INTERFERENCES WITH THE STRUCTURE SHALL PROMPTLY BE REPORTED TO THE ENGINEER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND VERIFYING ALL DIMENSIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL STRUCTURAL DISCREPANCIES, AND THESE DISCREPANCIES SHALL BE RESOLVED PRIOR TO PROCEEDING WITH THE WORK.
- 6. SHOULD A DISCREPANCY OCCUR ON THE DRAWINGS BETWEEN ANY PROJECT SPECIAL NOTES/SPECIAL DETAILS, AND THE TYPICAL SPECS/TYPICAL DETAILS, SAID SPECIAL NOTES/SPECIAL DETAILS SHALL TAKE PRECEDENCE. DETAILS NOTED AS TYPICAL SHALL APPLY IN ALL CONDITIONS UNLESS SPECIFICALLY SHOWN OR NOTED.
- 7. SEE ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR DIMENSIONS AND LOCATIONS OF OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS.
- 8. PENETRATIONS AND OPENINGS WITH ANY DIMENSION GREATER THAN 2" THAT ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS ARE PROHIBITED UNLESS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. NO PENETRATION SHALL BE ALLOWED THROUGH ANY STRUCTURAL MEMBER WITHOUT THE APPROVAL OF THE ENGINEER.
- 9. ANY CONSTRUCTION MATERIAL THAT IS TEMPORARILY PLACED ON FLOOR AND/OR ROOF FRAMING SHALL BE DISTRIBUTED OVER THE FRAMING SYSTEM SUCH THAT THE CONSTRUCTION LOAD DOES NOT EXCEED THE LOAD THAT THE FRAMING SYSTEM WAS DESIGNED FOR.
- 10. DESIGN CRITERIA -

	DESIGN DEAD LOADS (ADDITIONAL TO SELF WEIGHT)  1. FLOOR  2. MECHANICAL & ELECTRICAL	= 100 PSF = 5 PSF
В.	WIND	
	BASIC WIND SPEED	145 MPH
	Kzt	1.5
	EXPOSURE CATEGORY	C
	PRIMARY FRAME DESIGN METHOD	METHOD 2 (ANALYTICAL)
	BUILDING CLASSIFICATION	ENCLOSED
С.	SEISMIC	
	OCCUPANCY CATEGORY	III
	SITE CLASS	D
	Sds	1.00 g
	Sd1	0.88 g
	SEISMIC DESIGN CATEGORY	D

11. THE GENERAL CONTRACTOR AND ITS SUBCONTRACTORS MUST SUBMIT IN WRITING ANY REQUESTS FOR MODIFICATIONS TO THE PLANS AND SPECIFICATIONS.

# FOUNDATION NOTES

1. THE FOUNDATION DESIGN WAS BASED ON THE ASSUMPTIONS PRESENTED BELOW IN THE ABSENCE OF A SOILS REPORT:

ALLOWABLE SOIL BEARING PRESSURE

1500 PSF

ALLOWABLE PASSIVE EARTH RESISTANCE = 150 PCF FRICTIONAL RESISTANCE = 0.4 x DEAD LOAD

2. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN THE BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS. FLOODING IS PROHIBITED.

3. CONTRACTOR SHALL PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM EITHER SURFACE WATER, GROUND WATER, OR SEEPAGE.

# CONCRETE NOTES

- 1. ALL CONCRETE UNLESS OTHERWISE NOTED SHALL BE REGULAR WEIGHT HARD ROCK TYPE (150#/CU.FT.).
- 2. ALL PHASES OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) WITH MODIFICATIONS AS NOTED IN THE DRAWINGS OR SPECIFICATIONS.
- SCHEDULE OF STRUCTURAL CONCRETE 28—DAY STRENGTH AND TYPES: LOCATION OF STRUCTURE STRENGTH

SLAB ON GRADE

4000 PSI

ALL OTHER CONCRETE

3000 PSI

- 4. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150 TYPE II.
- 5. AGGREGATE FOR HARDROCK CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C-33 AND PROJECT SPECIFICATIONS.
- 6. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR HIS REVIEW 2 WEEKS PRIOR TO POUR.
- 7. CONCRETE MIXING OPERATION, ETC. SHALL CONFORM TO ASTM C-94.
- 8. PLACEMENT OF CONCRETE SHALL CONFORM TO ACI STANDARD 301 AND PROJECT SPECIFICATIONS.
- 9. UNLESS OTHERWISE NOTED ON THE PLANS, MINIMUM CLEAR COVERAGE OF NEW CONCRETE OVER OUTER REINFORCING BARS SHALL BE AS FOLLOWS:

  A. CONCRETE POURED DIRECTLY

B. WALL FACES:

EXPOSED TO FARTH WI

EXPOSED TO EARTH WITH FORMED SURFACES OR

EXPOSED TO WEATHER......1-1/2" CLEAR FOR #5 BAR & SMALLER 2" CLEAR FOR #6 BARS & LARGER

C. BEAMS AND COLUMNS: NOT EXPOSED TO EARTH

- 10. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- 11. PROJECTING CORNERS OF BEAMS, WALLS, COLUMNS, EQUIPMENT PADS, ETC., SHALL BE FORMED WITH 3/4" CHAMFER, UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS.
- 12. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED EXCEPT AS SHOWN. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS.
- 13. CONDUIT OR PIPE SIZE (O.D.) THAT IS BURIED IN ANY CONCRETE SLABS SHALL NOT EXCEED 25 PERCENT OF SLAB THICKNESS AND SHALL BE PLACED BETWEEN THE TOP AND BOTTOM REINFORCING UNLESS SPECIFICALLY DETAILED OTHERWISE.

  CONCENTRATIONS OF CONDUITS OR PIPES SHALL BE AVOIDED EXCEPT WHERE DETAILED OPENINGS ARE PROVIDED.
- 14. DO NOT USE CONCRETE ADMIXTURES CONTAINING CHLORIDE OR CHLORIDE SALTS.
- 15. ALL ROUGHENED SURFACES IN CONCRETE SHALL BE MADE WITH A MINIMUM AMPLITUDE OF 1/4"

# REINFORCING STEEL NOTES

- 1. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318), THE CRSI "MANUAL OF STANDARD PRACTICE," AND THE "ACI DETAILING MANUAL (SP-66) AS MODIFIED BY THE PROJECT DRAWINGS AND SPECIFICATIONS.
- 2. REINFORCING BARS SHALL CONFORM TO ASTM A-615 GRADE 60 REQUIREMENTS. #4
  AND SMALLER BARS MAY BE GRADE 40.
- 3. ANCHOR BOLTS, DOWELS AND OTHER EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED.
- 4. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- 5. REINFORCING SPLICES SHALL BE MADE ONLY WHERE INDICATED ON THE DRAWINGS.
- 6. DOWELS BETWEEN FOOTING AND WALL OR COLUMNS SHALL BE THE SAME GRADE, SIZE, SPACING, AND NUMBER AS THE VERTICAL REINFORCING RESPECTIVELY, U.O.N.
- 7. WELDING OF REINFORCING STEEL IS NOT PERMITTED UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- 9. REINFORCING BARS SHALL BE AS LONG AS PRACTICABLE AND AS DETAILED AND SHALL BE LAPPED AT SPLICES AND CORNERS NOT LESS THAN 32 BAR DIAMETER (24" MINIMUM), UNLESS OTHERWISE SHOWN. STAGGER HORIZONTAL WALL BAR SPLICES. IN GENERAL, BAR SPLICES SHALL BE MADE AT POINTS OF MINIMUM STRESS. IN BEAMS AND SLABS, SPLICE TOP BARS AT MID-SPAN, BOTTOM BARS OVER SUPPORTS, UNLESS OTHERWISE SHOWN.
- 10. EMBEDDED METAL COMPONENTS MADE UP OF ALLOYS THAT ARE DIS-SIMILAR TO THAT OF THE REINFORCING STEEL SHALL NOT BE ATTACHED DIRECTLY TO REINFORCING.

  MEASURES SHALL BE TAKEN TO ELECTRICALLY ISOLATE SAID COMPONENTS FROM ANY REINFORCING TO PREVENT CATHODIC EFFECTS.

# **ANCHORS**

1. REINFORCING OR THREADED RODS DRILLED AND EXPOXIED INTO EXISTING CONCRETE AS DETAILED ON THE DRAWINGS SHALL BE ONE OF THE FOLLOWING OR APPROVED EQUIVALENT:

A. SIMPSON 'SET-XP'
B. HILTI 'RE-500 SD'
C. DEWALT 'PURE 110+'

ICC REPORT ESR-2508
ICC REPORT ESR-2322
ICC REPORT ESR-3298

- INSTALLATION OF EPOXIED DOWELS SHALL FOLLOW THE STRICT RECOMMENDATIONS OF THE MANUFACTURER AND THE APPLICABLE ICC REPORT AND HAVE A MINIMUM OF 9 DIAMETERS EMBEDMENT.
- 3. INSTALLATION SHALL FOLLOW THE STRICT RECOMMENDATIONS OF THE MANUFACTURER AND THE APPLICABLE ICC ER REPORT. CONTRACTOR SHALL HAVE APPROPRIATE ICC ER REPORT ON—SITE DURING ALL INSTALLATIONS.
- 4. ANY ENGINEERING DESIGN PROVIDED BY CONTRACTOR OR OTHERS SHALL BE SUBMITTED FOR REVIEW BY THE INSURED AND REGISTERED STRUCTURAL ENGINEER WITH CONTINUOUS FIVE YEARS OF EXPERIENCE IN THE TYPE OF DESIGN SUBMITTED.





# KONA COMMUNITY HOSPITAL

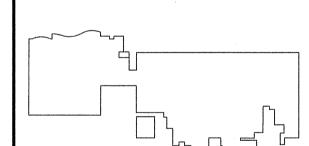
79-1019 HAUKAPILA STREET KEALAKEKUA, HAWAII 96750

ADDRESS

NEW CLINICAL LABORATORY
ULTRASOUND ROOM, AND
MISCELLANEOUS REPAIRS

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NO.	REVISION	DATE

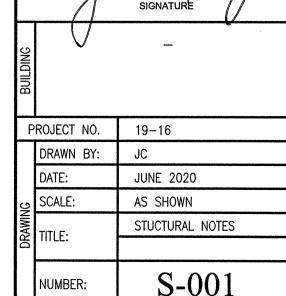




KEYPLAN:



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.



# STRUCTURAL STEEL NOTES

- 1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE "AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
- . ALL STRUCTURAL STEEL SHALL CONFORM TO THE ASTM DESIGNATIONS AS NOTED BELOW:

A. CHANNELS AND ANGLES: B. FLAT/BENT PLATES:

ASTM A36 ASTM A36

- 3. ANCHOR RODS SHALL CONFORM TO ASTM F-1554, GRADE 36 EXCEPT AS NOTED.
- 4. MACHINE BOLTS SHALL CONFORM TO ASTM A307, GRADE 36 EXCEPT AS NOTED.
- 5. BOLTS USED IN STRUCTURAL STEEL CONNECTIONS SHALL CONFORM TO ASTM A325 OR A490 AS NOTED. BOLT HOLES IN STEEL SHALL BE 1/16" LARGER DIAMETER THAN NOMINAL SIZE OR BOLT USED, EXCEPT AS NOTED.
- 6. ALL JOINTS SHALL DEVELOP THE FULL STRENGTH (COMPLETE PENETRATION AISC PREQUALIFIED JOINTS) OF THE CONNECTING MEMBERS AND FULLY WELDED, UNLESS OTHERWISE SHOWN.
- 7. ALL MATERIAL SHALL BE SHOP PAINTED.

# SPECIAL INSPECTION NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT SPECIAL INSPECTION OF PORTIONS OF THE WORK, AS REQUIRED BY THE BUILDING CODE OF THE COUNTY OF HAWAII, BE MADE AT THE APPROPRIATE TIME. THE CONTRACTOR SHALL GIVE TIMELY NOTICE OF WHEN AND WHERE INSPECTIONS ARE TO BE MADE AND PROVIDE ACCESS FOR THE INSPECTOR. THE CONTRACTOR SHALL CORRECT DEFECTIVE WORK AT NO ADDITIONAL COST TO THE OWNER AND THE CONTRACTOR SHALL PAY FOR RE—INSPECTION.

2. THE FOLLOWING IS A SUMMARY OF THE SPECIAL INSPECTION REQUIREMENTS:

CONCRETE REINFORCING STEEL & FORMWORK

YES, PER IBC TABLE 1704.4

ANCHOR BOLTS (RODS) IN CONCRETE

YES, PER IBC TABLE 1704.4

CONCRETE POUR

NO PER IBC 1704.4.2.3,
DESIGN BASED ON 2,500
PSI CONCRETE ALTHOUGH
3,000 PSI IS SPECIFIED
FOR CONSTRUCTION

CONCRETE CYLINDER TEST

NO, SUPPLIER TO PROVIDE IN-HOUSE TEST RESULTS

PERIODIC SPECIAL CASES:

EPOXY ANCHORS & DOWELS

# **ABBREVIATIONS**

A.B.	ANCHOR BOLT	MAX.	MAXIMUM
ALT.	ALTERNATE	M.B.	MACHINE BOLT
APPROX.	APPROXIMATE	MECH.	MECHANICAL
ARCH.	ARCHITECTURAL	MIN.	MINIMUM
(B)	BOTTOM (REINFORCEMENT)	MISC.	MISCELLANEOUS
BLDG.	BUILDING	N.I.C.	NOT IN CONTRACT
ВМ.	BEAM	NO. OR #	NUMBER
B.O.F.	BOTTOM OF FOOTING	N.T.S.	NOT TO SCALE
ВОТ.	BOTTOM	O.C.	ON CENTER
C.I.P.	CAST-IN-PLACE	O.D.	OUTSIDE DIAMETER (DIMENSION)
CL.	CENTERLINE	0.F.	OUTSIDE FACE
CLR.	CLEAR(ANCE)	O.H.	OPPOSITE HAND
СМИ	CONCRETE MASONRY UNIT	OPNG.	OPENING
COL.	COLUMN	OPP.	OPPOSITE
CONC.	CONCRETE	PJP	PARTIAL JOINT PENTRATION
CONN.	CONNECTION	PL.	PLATE
CJP	COMPLETE JOINT PENETRATION	PLWD.	PLYWOOD
CONSTR.	CONSTRUCTION	PREFAB.	PREFABRICATION/PREFABRICATED
CONT.	CONTINUOUS	PT.	POINT
CRM	CUT ROCK MASONRY	REF.	REFERENCE
DBL.	DOUBLE	R.U.	ROUGH OPENING
DET.	DETAIL	R.	RADIUS
DIA.	DIAMETER	REINF.	REINFORCEMENT
DIM.	DIMENSION	REQ.	REQUIRED/REQUIREMENT(S)
DWG.	DRAWING	SCHED.	SCHEDULE
EA.	EACH	SECT.	SECTION
E.F.	EACH FACE	SHT.	SHEET
E.J.	EXPANSION JOINT	SIM.	SIMILAR
EL.	ELEVATION	SL.	SLOPE
EQ.	EQUAL	SG.	SLAB-ON-GRADE
EQUIPT.	EQUIPMENT	SPEC.	SPECIFICATION
E.S.	EACH SIDE	SQ.	SQUARE
E.W.	EACH WAY	SST.	STAINLESS STEEL
EXP.	EXPANSION	STD.	STANDARD
EXT.	EXTERIOR	STIFF.	STIFFENER
EXIST.	EXISTING	STRUCT.	STRUCTURAL
FDTN.	FOUNDATION	SYM.	SYMBOL
FLR.	FLOOR	(T)	TOP (REINFORCEMENT)
F.O.P.	FACE OF CONCRETE	T & B	TOP AND BOTTOM
FIN.	FINISH	T & G	TONGUE AND GROOVE
FIN. FLR.	FINISH FLOOR	THRU	THROUGH
FT.	FOOT OR FEET	T.O.C.	TOP OF CURB
FTG.	FOOTING	T.O.F.	TOP OF FOOTING
GA.	GAUGE	T.O.S.	TOP OF SLAB, TOP OF STEEL
GALV.	GALVANIZED	T.O.W.	TOP OF WALL
(H)	HORIZONTAL (REINFORCEMENT)	TRANSV.	TRANSVERSE
HK.	HOOK	TYP.	TYPICAL
HORIZ.	HORIZONTAL	U.O.N.	UNLESS OTHERWISE NOTED
I.D.	INSIDE DIAMETER (DIMENSION)	VERT.	VERTICAL
INFO.	INFORMATION	W/	WITH
INT.	INTERIOR	WD.	WOOD
INTERM.	INTERMEDIATE	W.W.M.	WELDED WIRE MESH
JT.	JOINT	LLH.	LONG LEG HORIZONTAL
LLV.	LONG LEG VERTICAL	LLM.	LONG LEG HURIZUNTAL
_ONG.	LONGITUDINAL	NOTE:	
		NOTE:	RRDEVIATIONS ARE MEGESSARILY
			BBREVIATIONS ARE NECESSARILY
		USED	



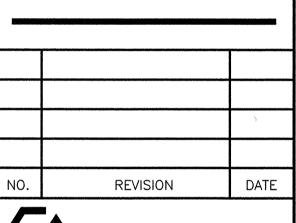


# KONA COMMUNITY HOSPITAL

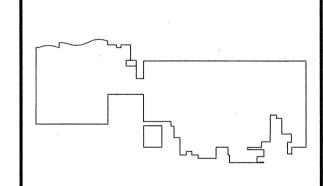
79-1019 HAUKAPILA STREET KEALAKEKUA, HAWAII 96750

ADDRESS

VEW CLINICAL LABORATORY, ULTRASOUND ROOM, AND MISCELLANEOUS REPAIRS



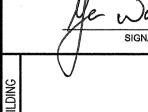




KEYPLAN:



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PROJECT NO. 19-16

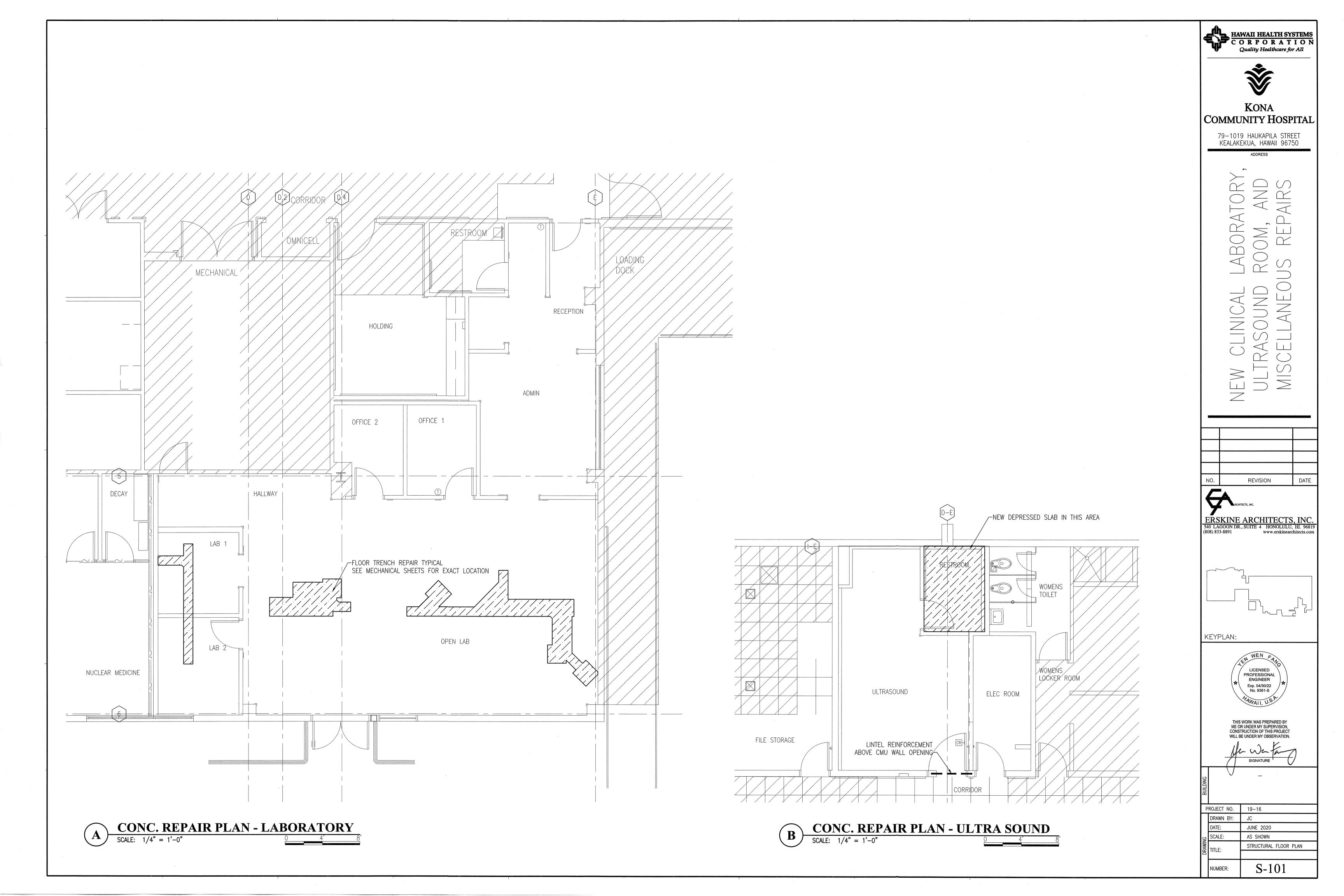
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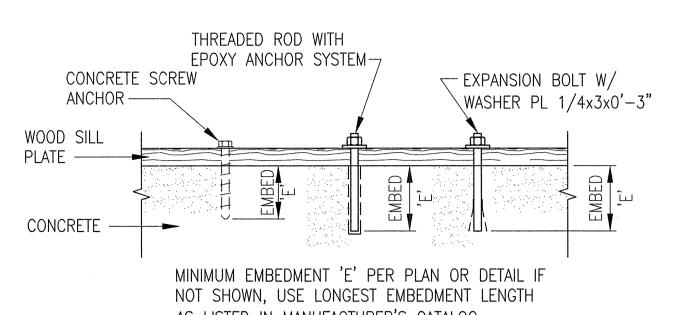
DATE: JUNE 2020

SCALE: AS SHOWN

TITLE: STUCTURAL NOTES AND ABBREVIATIONS

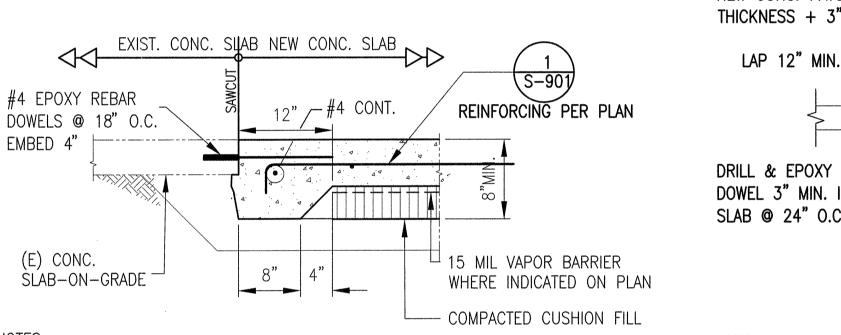
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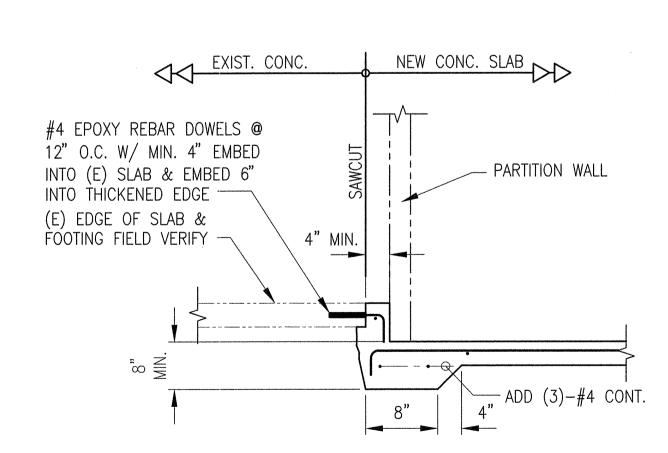
- AS LISTED IN MANUFACTURER'S CATALOG. 1. CONCRETE SCREW ANCHOR SHALL BE SIMPSON TITAN HD, POWER FASTENER WEDGE BOLT OR APPROVED EQUIVALENT.
- 2. EPOXY ANCHOR SYSTEM SHALL BE SIMPSON ET EPOXY TIE SYSTEM, HILTI HIT HY-150, POWER FASTENER POWER FAST+ OR APPROVED EQUIVALENT
- 3. EXPANSION BOLT SHALL BE SIMPSON, HILTI QUIK-BOLT, OR POWER FASTENER POWER STUD OR APPROVED EQUIVALENT OR BETTER.
- 4. ALL ANCHORING SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER INSTRUCTION AND RECOMMENDATION.



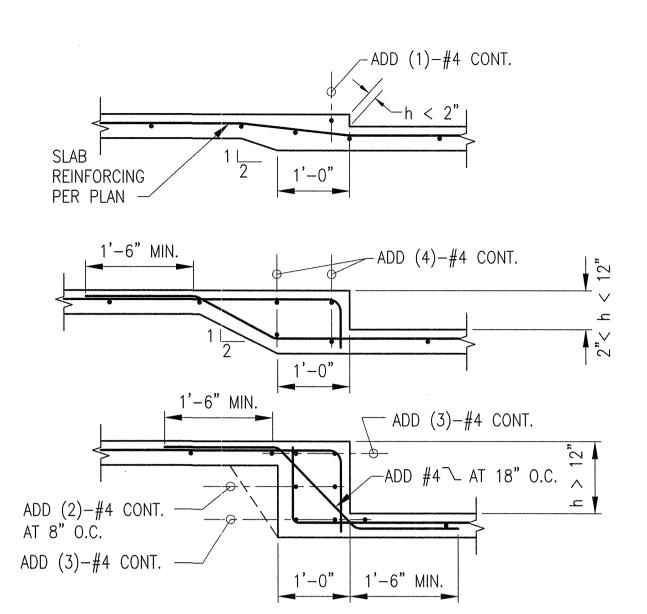


U.O.N. MINIMUM REQUIREMENTS SHALL BE: 1. CONCRETE SHALL BE CLASS "A". THICKNESS = 4" MIN. 2. AGGREGATE CUSHION FILL SHALL BE ASTM C33 NO. 67. 3. REINFORCING SHALL BE #3 BARS @ 16" O.C. BOTHWAYS

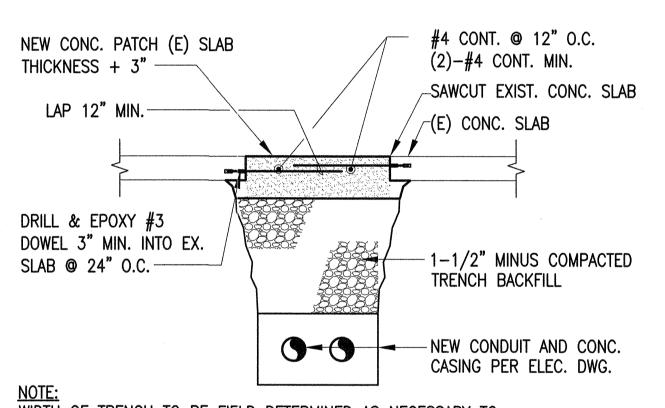
# **NEW CONC. TO EXIST. CONC.**



DEPRESSED SLAB TO EXIST SLAB

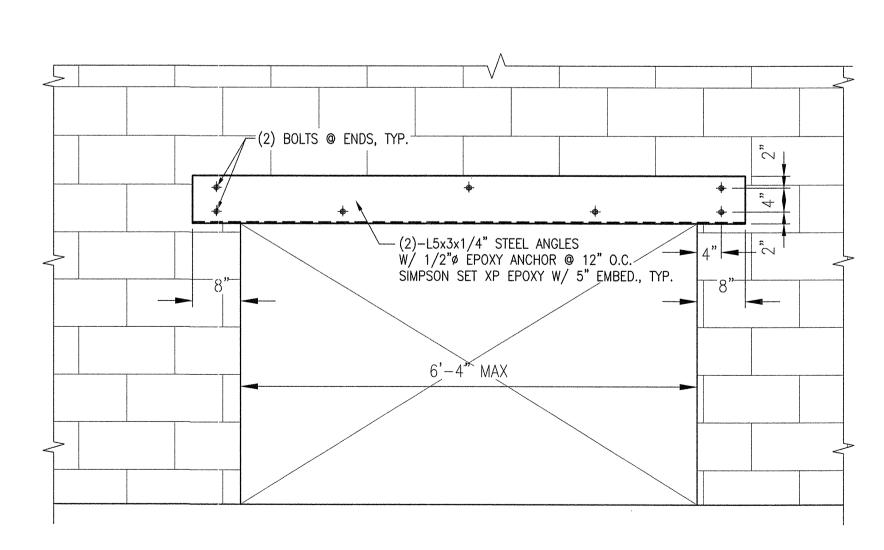


DEPRESSED SLAB DETAIL NO SCALE

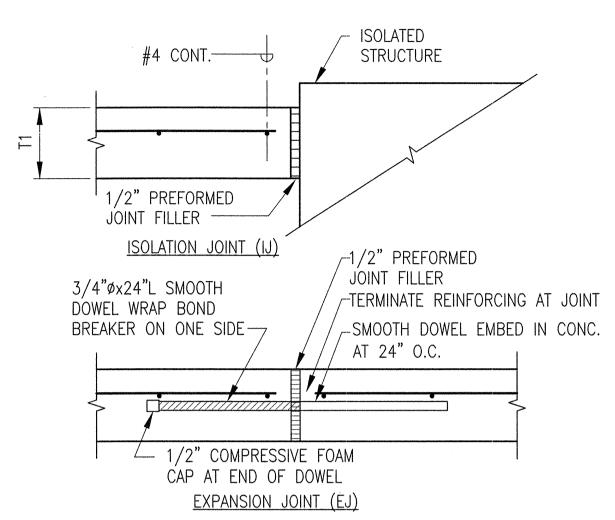


WIDTH OF TRENCH TO BE FIELD DETERMINED AS NECESSARY TO PROPERLY INSTALL PROPOSED CONDUIT(S) & CASING

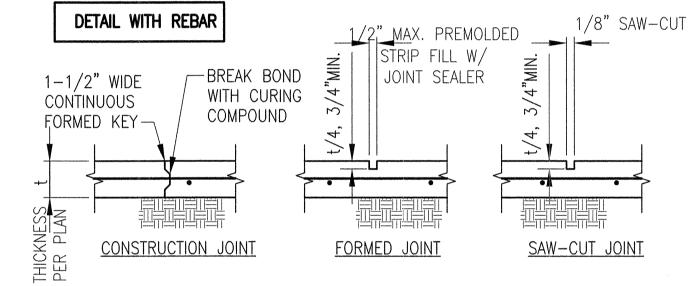
# CONC. SLAB PATCH DETAIL



TYP. LINTEL FOR EXIST. CMU WALL DETAIL



# TYPICAL CONCRETE JOINTS NO SCALE

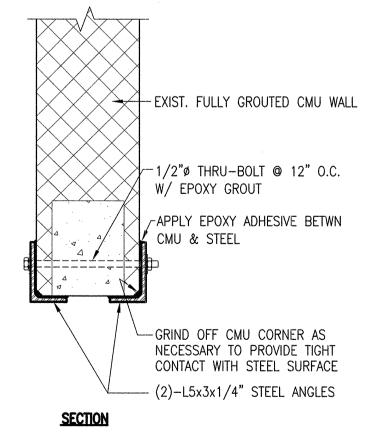


1. CONTROL JOINTS TO BE LOCATED AT COLUMN CENTER LINES AND A MAXIMUM OF 24 TIMES SLAB THICKNESS i (4" SLAB =8' O.C. 6" SLAB =12'-0" O.C.) REFER TO

PLAN FOR LOCATIONS. 2. IF SAW-CUT CONTROL JOINT TO BE USED, SAW-CUT WITHIN 24 HOURS OF POUR.

3. CONSTRUCTION JOINT TO BE LOCATED AS PER NOTES #7 AND #2 UNLESS SPECIFICALLY INDICATED ON PLANS.

# TYPICAL SLAB ON **GRADE CONTROL JOINTS**



NOTES TO ENGINEER:

2. CHECK REDUCED

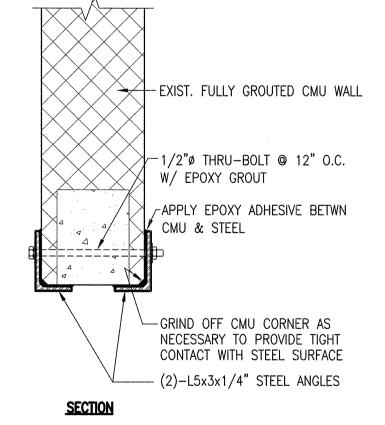
. NOT APPLICABLE FOR EXTERIOR USE.

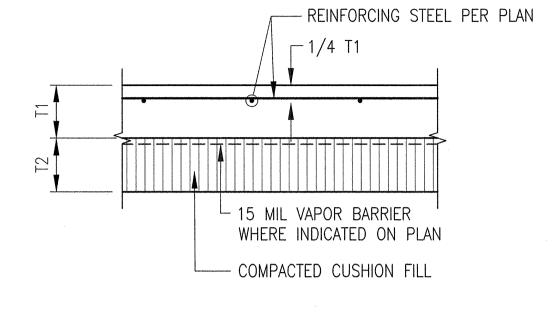
SHEAR TRANSFER

WHERE APPLICABLE.

3. VERIFY REBAR TO CLEAR CONTROL JOINT.

SLAB THICKNESS FOR

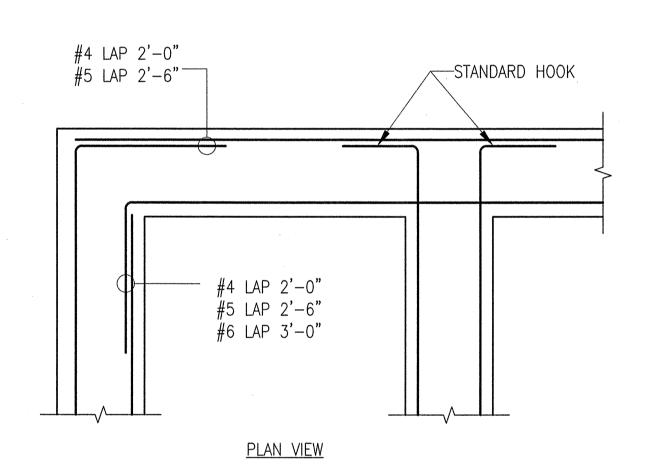




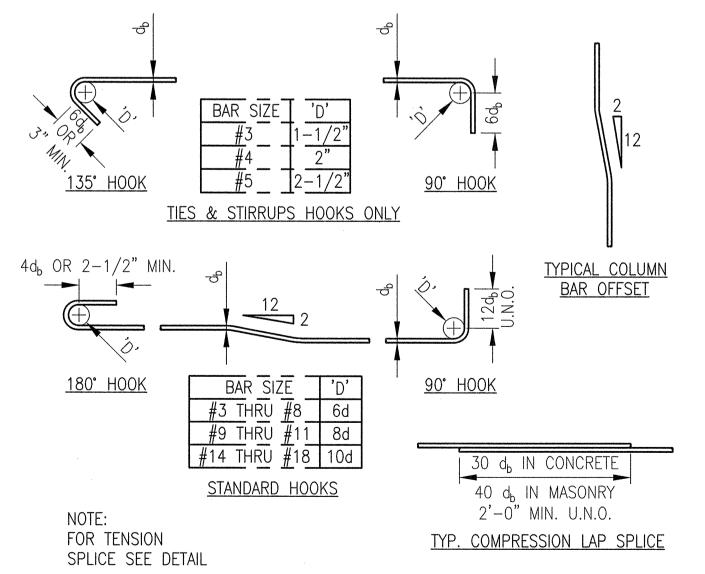
# NOTES:

- 1. SLAB-ON-GRADE THICKNESS (T1) AS PER PLAN.
- 2. CUSHION FILL THICKNESS (T2) AS PER PLAN. CUSHION FILL SHALL BE #3 FINE GRAVEL (ASTM NO. 67 GRAVEL)

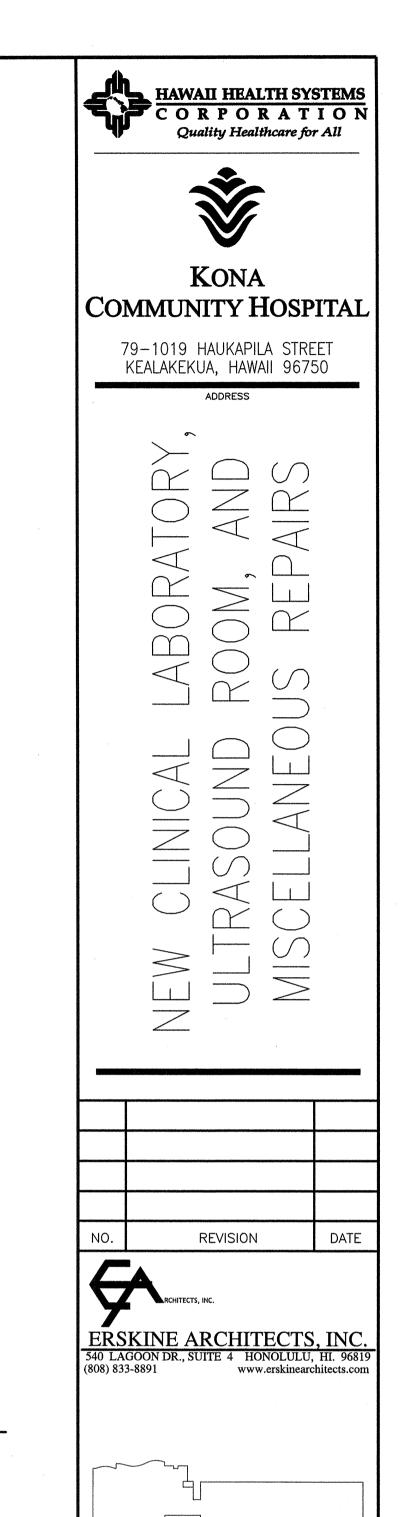
# **SLAB-ON-GRADE DETAIL**

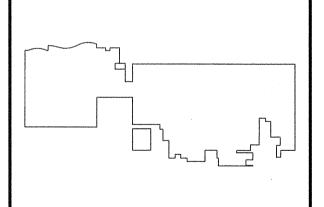


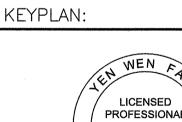


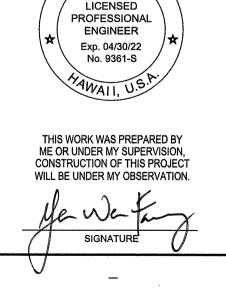


TYP. REINF. BENDING DETAIL









PROJECT NO. 19-16 DRAWN BY: JUNE 2020 SCALE: AS SHOWN DETAILS

S-201

SYMBOLS	ABBREVIATIONS	DESCRIPTIONS	SYMBOLS	ABBREVIATIONS	DESCRIPTIONS
	ABV	ABOVE		HZ	HERTZ
	AFF	ABOVE FINISHED FLOOR		IN	INCHES
$\bigvee$	AP	ACCESS PANEL		IN WG	INCHES WATER GAUGE
L-X-1	AHU	AIR HANDLING UNIT		LBS	POUNDS
	ARCH	ARCHITECTURAL		MAX	MAXIMUM
BD		BACKDRAFT DAMPER		MECH	MECHANICAL
<u> </u>		BALL VALVE		MIN	MINIMUM
	CLG	CEILING	M	The second control of	MOTORIZED DAMPER
Z		CHECK VALVE			NEW WORK
	CHWR	CHILLED WATER RETURN		NO	NUMBER
	CHWS	CHILLED WATER SUPPLY		OC	ON CENTER
	CLR	CLEARANCE		ODP	OPEN DRIP PROOF
	CO	CLEAN OUT	ANTEN STATE OF THE	OA	OUTSIDE AIR
	CONC	CONCRETE	VD	OBVD	OPPOSED BLADE VOLUME DAMPER
	CONN	CONNECTION		OFOI	OWNER FURNISH OWNER INSTALL
CD	001414	CONCEALED OPERATOR VOLUME DAMPER		OL OL	OVERLOAD
	CONT	CONTINUATION	ø	PH	PHASE
	CW	COLD WATER		POC	POINT OF CONNECTION
	CC	COOLING COIL	P	1 00	PRESSURE SENSOR
	CFM	CUBIC FEET PER MINUTE		RA	RETURN AIR
management CD management of the second	CD	CONDENSATE DRAIN	<del>-</del>	RAR	RETURN AIR REGISTER
	dB	DECIBELS		RHC	REHEATING COIL
Ø	DIA	DIAMETER		SCC	SENSIBLE COOLING CAPACITY
**************************************	DN	DOWN	<del></del>	300	SMOKE DAMPER (HORIZONTAL)
	DWGS	DRAWINGS			SMOKE DAMPER (HORIZONTAL)  SMOKE DAMPER (VERTICAL)
SD	D.1103	DUCT SMOKE DETECTOR		S.S.	STAINLESS STEEL
9	EAT	ENTERING AIR TEMPERATURE		STRUCT	STRUCTURAL
	ECWT	ENTERING CHILLED WATER TEMPERATURE		SA	SUPPLY AIR
***************************************	EXH	EXHAUST		SAD	SUPPLY AIR DIFFUSER
	EA	EXHAUST AIR		SAR	SUPPLY AIR REGISTER
- \ -	EAR	EXHAUST AIR REGISTER	+++	SP	
			T		DUCT MOUNTED STATIC PRESSURE SENSOR
	EF ELEC	EXHAUST FAN ELECTRICAL	7//////	ST	SOUND TRAP
	ELEC	EXISTING		TEMP	TO BE REMOVED OR DEMOLISHED
	EXST		Œ	TEMP	TEMPERATURE SENSOR
	FCU	FAN COIL UNIT FINISHED FLOOR		т стат	TEMPERATURE SENSOR
	FIN FLR		T T	T-STAT	THERMOSTAT
		FIRE DAMPER (HORIZONTAL)		THK	THICK
•		FIRE DAMPER (VERTICAL)		TA	TRANSFER AIR
<u> </u>		FIRE/SMOKE DAMPER (HORIZONTAL)	11:	TYP	TYPICAL
		FIRE/SMOKE DAMPER (VERTICAL)		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	UNION
	FC	FLEXIBLE CONNECTION		V	VOLTS
		FLEXIBLE DUCT		VAV	VARIABLE AIR VOLUME
G	00110	GRAVITY DAMPER		VFD	VARIABLE FREQUENCY DRIVE
	GRND	GROUND		W	WATTS
	HC	HEATING COIL	<u> </u>		WYE STRAINER

# HAWAI'I COUNTY ENERGY CODE

# 2015 IECC, HAWAI'I REVISED STATUTES <u>HRS 107-24 TO 28</u> & HAWAI'I ADMINISTRATIVE RULES <u>HAR 3-181.1</u>

I CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THIS PROJECT DESIGN SUBSTANTIALLY CONFORMS TO THE BUILDING ENERGY EFFICIENCY STANDARDS PERTAINING TO THE COMMERCIAL PROVISIONS FOR MECHANICAL SYSTEMS (C403, C404 & C405) OF THE 2015 IECC WITH AMENDMENTS PER HAR 3-181.1:

# **COMPLIANCE METHOD**

5/29/2020

LICENSE NO.: 16319-M

TITLE:

CAREY S. NAKAGAWA

VICE-PRESIDENT

- ☑ 2015 IECC as amended. Mandatory & Prescriptive
- ☐ 2015 IECC as amended. Mandatory & Total Building Performance
- ☑ ASHRAE Standard 90.1-2013. Mandatory & Prescriptive
- ☐ ASHRAE Standard 90.1-2013. Mandatory & Energy Cost Budget

NFORMATION IN CONSTRUCTION DOCUMENTS	Yes	N/A
HVAC Systems Equipment capacity and efficiency. C403.2.3	X	
Thermostatic controls C403.2.4	X	
Guest room door switches. C403.2.4.2.4		$\mathbf{X}$
Ventilation rate C403.2.6	$\square$	
Demand control ventilation controls C403.2.6.1	, <u>~</u>	X
Enclosed parking garage ventilation control. C403.2.6.2		X
Energy recovery ventilation system. C403.2.7		X
Kitchen exhaust systems. C403.2.8		X
Duct and plenum insulation thickness/R-value. C403.2.9	$\square$	
Duct and plenum sealing requirements. C403.2.9	$\boxtimes$	
Pipe insulation thickness/R-value. C403.2.10	$\mathbf{X}$	
Fan motor horsepower. C403.2.12	X	ㅁ
Fan efficiency. C403.2.12	X	
Fan motor efficiency. C405.8	X	
Pump motor efficiency. C405.8		$\square$
Variable-flow fan control. C403.4.1		$\boxtimes$
Static pressure sensor location. C403.4.1.2		$\mathbf{X}$
Static pressure reset control. C403.4.1.3		$\mathbf{X}$
Chilled water variable flow control. C403.4.2.4		X
Chiller isolation. C403.4.2.6		$\boxtimes$
Cooling tower fan control. C403.4.3		$\mathbf{X}$
Terminal unit minimum and maximum airflow. C403.4.4		X
Commissioning requirements. C408.2	$\overline{\mathbf{X}}$	
Refrigeration		<b></b>
Refrigeration equipment efficiency. C403.2.14		X
Walk-in coolers and freezers. C403.2.15, C403.2.16 & C403.5		X
Refrigerated warehouses. C403.2.15 & C403.5		$\boxtimes$
Refrigerated display cases. C403.2.17 & C403.5		X
Service Water Heating	leastered	
Heat recovery for service water heating. C403.4.5		X
Equipment capacity and efficiency. C404.2		X
Pipe insulation. C404.4		X
Hot water pipe length/volume. C404.5		X
Hot water circulation controls. C404.6		X
Heated pool and spa covers. C404.9.3		X
Commissioning requirements. C408.2		X

LICENSED PROFESSIONAL ENGINEER
No. 16319-M





KONA COMMUNITY HOSPITAL

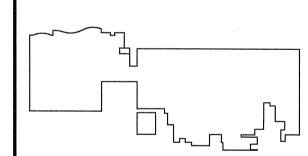
79-1019 HAUKAPILA STREET KEALAKEKUA, HAWAII 96750

ALAKEKUA, HAWAII 967 ADDRESS

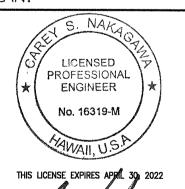
NEW CLINICAL LABORATORY,
ULTRASOUND ROOM, AND
MISCFILANFOUS RFPAIRS

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NO.	REVISION	DATE

RCHITECTS, INC.	
ERSKINE ARCI	HITECTS. INC
540 LAGOON DR., SUITE 4 (808) 833-8891	



KEYPLAN:



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F	ROJECT NO.	19–16
	DRAWN BY:	TEC
	DATE:	JUNE 2020
رى د	SCALE:	AS SHOWN

DRAWN BY: TEC

DATE: JUNE 2020

SCALE: AS SHOWN

TITLE:

NUMBER: M-001

# G. (2013) 19003CO I NOIB COITHIUM NO SPING NEW AGO CARE TAD (DISTRICT NOTES) AND STAND AS A CASO 2.40.40 FIVE BINEDERIN FOLIO FINISE TIGINGS. P.C.

# MECHANICAL NOTES

- 1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO DEMOLITION, FABRICATION, INSTALLATION AND COMMENCEMENT OF ALL WORK TO BE DONE. COORDINATE ALL WORK TO BE DONE WITH OTHER TRADES.
- 2. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ARCHITECT.
- 3. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES AND FIELD CONDITIONS AFFECTING OR AFFECTED BY THIS INSTALLATION. SHOULD CONFLICTS OCCUR, THE OWNER SHALL BE NOTIFIED IMMEDIATELY.
- 4. SCHEDULING OF ALL ON—SITE CONSTRUCTION WORK SHALL BE IN ACCORDANCE WITH THE APPROVED CONSTRUCTION SCHEDULE. SEQUENCE ON—SITE WORK TO MINIMIZE DISRUPTIONS (E.G. NOISE, DUST, ODORS, ETC.) TO THE NORMAL OPERATION OF THE TENANTS. PROVIDE BARRICADES, TEMPORARY BARRIERS, ETC. AS REQUIRED TO SEPARATE THE CONSTRUCTION WORK AREA FROM THE TENANT'S WORK AREAS AND PROVIDE SAFE WORKING CONDITIONS.
- 5. AIR CONDITIONING OUTAGES INCLUDING SHUTDOWN OF ANY PORTION OF OR THE COMPLETE AIR CONDITIONING SYSTEM, ETC. SHALL BE SUBMITTED FOR APPROVAL AND SHOWN ON THE CONSTRUCTION SCHEDULE BY THE CONTRACTOR. THE OWNER WILL LIMIT THE NUMBER OF OUTAGES AND THE DURATION OF EACH OUTAGE.
- 6. LOUD NOISE PRODUCING CONSTRUCTION ACTIVITIES SHALL ALSO BE SCHEDULED FOR WEEKEND OR AFTER NORMAL WORKING HOURS. CONTRACTOR SHALL COORDINATE WITH OWNER.
- 7. ALL ITEMS ARE NEW UNLESS OTHERWISE NOTED. ALL EXISTING EQUIPMENT AND OTHER ITEMS SHALL REMAIN UNLESS OTHERWISE NOTED.
- 8. ALL DUCT DIMENSIONS SHOWN NUMERICALLY ARE NET INSIDE DIMENSIONS AND DO NOT INCLUDE INSULATION THICKNESS. ALL SUPPLY AND RETURN AIR DUCTS SHALL BE WRAPPED WITH 1 1/2 INCH THICK RIGID INSULATION WITH 1 1/2 INCH FLEXIBLE INSULATION AT DUCT JOINTS. AS PART OF ADDITIVE ALTERNATE NO 1, REMOVE EXISTING DUCT INSULATION IN MAINTENANCE, OFFICE, COPY AND ULTRA SOUND ROOMS AND REPLACE WITH NEW RIGID INSULATION WITH 1 1/2 INCH FLEXIBLE INSULATION AT DUCT JOINTS.
- 9. PROVIDE DIELECTRIC CONNECTIONS AT ALL FERROUS TO COPPER CONNECTIONS.
- 10. CONTRACTOR SHALL COORDINATE LOCATION OF NEW DUCTWORK AND PIPING AND MAKE ADJUSTMENTS TO AVOID INTERFERENCE WITH EXISTING AND NEW DUCTWORK, PIPING, CONDUIT, BEAMS, FRAMING, CABLE TRAYS, AND LIGHTING.
- 11. UNLESS OTHERWISE INDICATED, MOUNT ALL WALL MOUNTED MECHANICAL DEVICES, PANELS, SWITCHES, ETC AT 48 INCHES AFF.
- 12. ALL ROOF, WALL, AND FLOOR PENETRATIONS SHALL BE VERIFIED AND COORDINATED WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 13. PROVIDE FIRE STOPPING AT ALL EXISTING AND NEW PIPE AND DUCT PENETRATIONS THRU FIRE RATED CEILING AND WALL ASSEMBLIES, SMOKE WALLS, AND FLOORS PENETRATIONS. SEE ARCHITECTURAL DRAWINGS FOR FIRE RATED WALL LOCATIONS. ALL FIRE STOP AT FLOOR PENETRATIONS SHALL BE RATED FOR 2—HOUR CONSTRUCTION.
- 14. ALL GAPS AT THE PENETRATIONS THROUGH FIRE RATED CEILING AND WALL ASSEMBLIES FOR PIPES, PIPE SUPPORTS, RODS, STRAPS, CONTROL CONDUITS, ETC. SHALL BE SEALED WITH APPROVED FIRE STOPPING MATERIAL AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS TO MAINTAIN THE FIRE RATING OF THE ASSEMBLY. SEE ARCH DRAWINGS FOR LOCATION OF FIRE RATED WALLS & CEILINGS.
- 15. ALL COSTS FOR PLANNING, QUALITY CONTROL, OVERTIME, INCLUDING EVENING AND WEEKEND WORK, USE OF SPECIAL CONTRACTORS AND OTHER ITEMS REQUIRED BY THIS PROJECT SHALL BE INCLUDED IN THE CONTRACT PRICE
- 16. THE MECHANICAL PLANS WERE DRAWN USING VARIOUS REFERENCE DRAWINGS AND LIMITED FIELD VERIFICATION DUE TO EXISTING INTERFERENCES. CONTRACTOR SHALL VERIFY LAYOUT IN THE FIELD PRIOR TO STARTING WORK AND SHALL INDICATE CHANGES ON SHOP DRAWINGS. NOTIFY ENGINEER OF ANY AREAS WHERE EXISTING LAYOUT VARIES SIGNIFICANTLY FROM DRAWINGS. MINOR CHANGES (AS DETERMINED BY THE ENGINEER) IN LAYOUT AND PIPE SIZES DUE TO AS—BUILT CONDITIONS SHALL NOT BE THE BASIS FOR REQUESTING ADDITIONAL FUNDS FROM THE OWNER.
- 17. PATCH AND PAINT ALL SURFACES AFFECTED BY SELECTIVE DEMOLITION TO MATCH ADJACENT AND/OR EXISTING CONDITIONS. OBTAIN APPROVAL OF MATCHING MATERIAL.
- 18. CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT AND PIPING ARE INSTALLED WITH MANUFACTURER'S RECOMMENDED ACCESS SPACE FOR MAINTENANCE, OPERATION, AND IN ACCORDANCE WITH CODES.
- 19. FIRE SAFETY DURING CONSTRUCTION, ALTERATION, OR DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 16, NFPA 1 AS AMENDED.
- 20. ALL AIR CONDITIONING AND VENTILATION SYSTEMS SHALL COMPLY WITH TITLE 11, ADMINISTRATIVE RULES, DEPARTMENT OF HEALTH, CHAPTER 39, AIR CONDITIONING AND VENTILATION REQUIREMENTS.
- 21. A/C WORK WILL NOT AFFECT WATER DEMAND.
- 22. ALL SINKS, FLOOR DRAINS, FLOOR SINKS AND OTHER WASTE WATER CONNECTIONS WHICH ACCEPT PROCESS/WASHDOWN WATER, SHALL BE PROVIDED WITH 1/4 INCH SCREENED OPENING MAXIMUM.
- 23. WATER CONSERVATION PROVIDE FLOW RESTRICTORS OR OTHER APPROVED FLOW CONTROL DEVICES TO LIMIT FLOW ON ALL LAVATORY FAUCETS TO A MAXIMUM OF 0.5 GPM, FOR ALL SHOWER HEADS AND SINKS TO 2.5 GPM AND FOR ALL URINALS TO 1.0 GALLON PER FLUSH AND FOR ALL WATER CLOSETS TO 1.6 GALLONS PER FLUSH.
- 24. FOR ADA FIXTURE MOUNTING HEIGHT, SEE ARCH DWGS.
- 25. THE FORCE TO ACTIVATE ANY FAUCET OR FLUSH VALVE CONTROL VALVE SHALL BE NO GREATER THEN 5 LBS.
- 26. DDC CONTROLS SHALL BE BY SETPOINT SYSTEM (WWW.SETPOINTSYSTEMS.COM).





KONA COMMUNITY HOSPITAL

> 79—1019 HAUKAPILA STREET KEALAKEKUA, HAWAII 96750

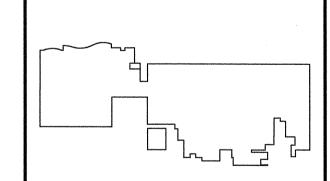
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ULTRASOUND ROOM, AND
MISCELLANEOUS REPAIRS

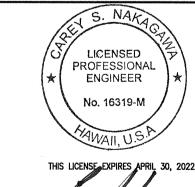
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ERSKINE ARCHITECTS, INC.

540 LAGOON DR., SUITE 4 HONOLULU, HI. 9681
(808) 833-8891 www.erskinearchitects.com



KEYPLAN:



SIGNATURE

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PROJECT NO. 19–16

DRAWN BY: TEC

DATE: JUNE 2020

SCALE: AS SHOWN

NUMBER:

DRAWN BY: TEC

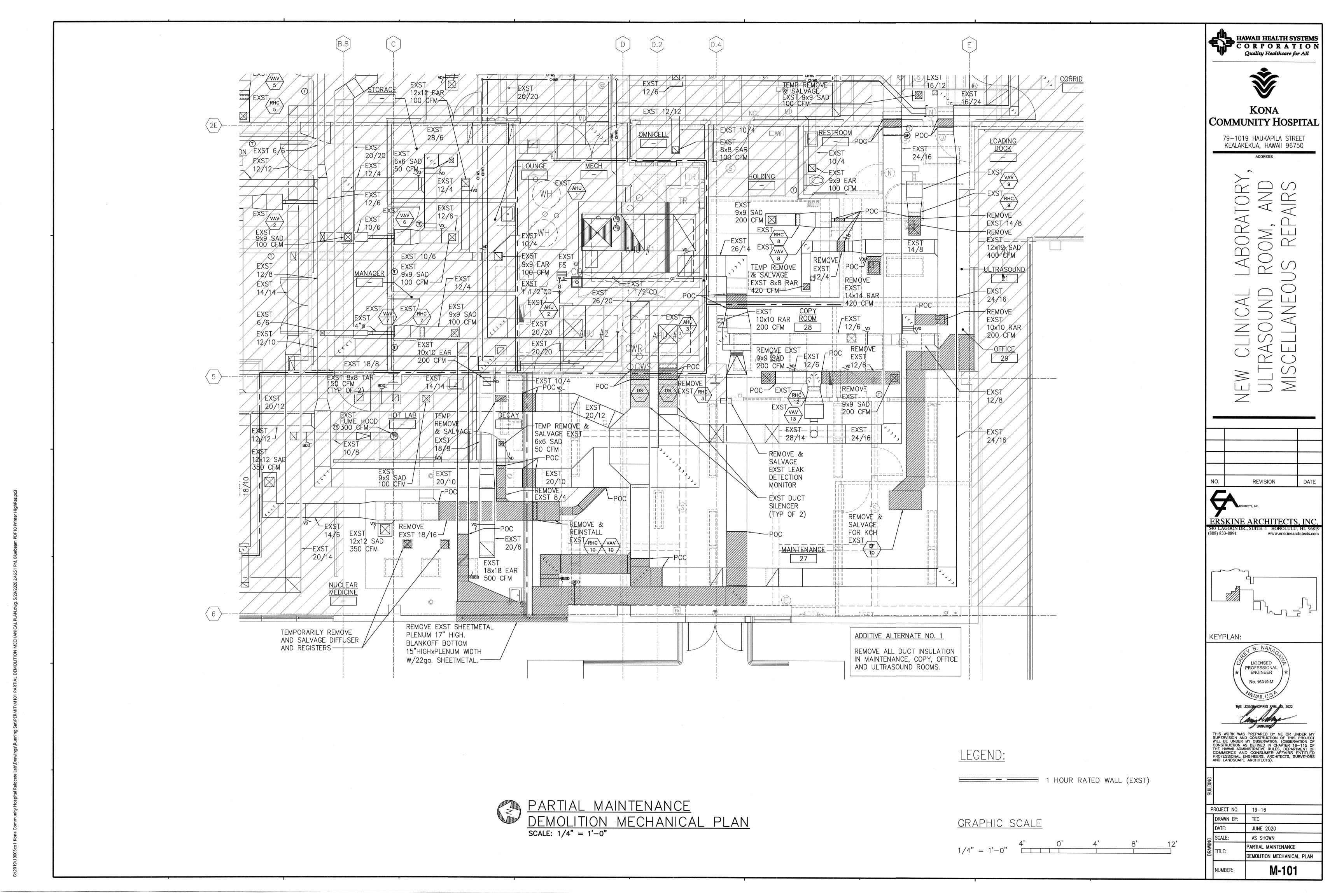
DATE: JUNE 2020

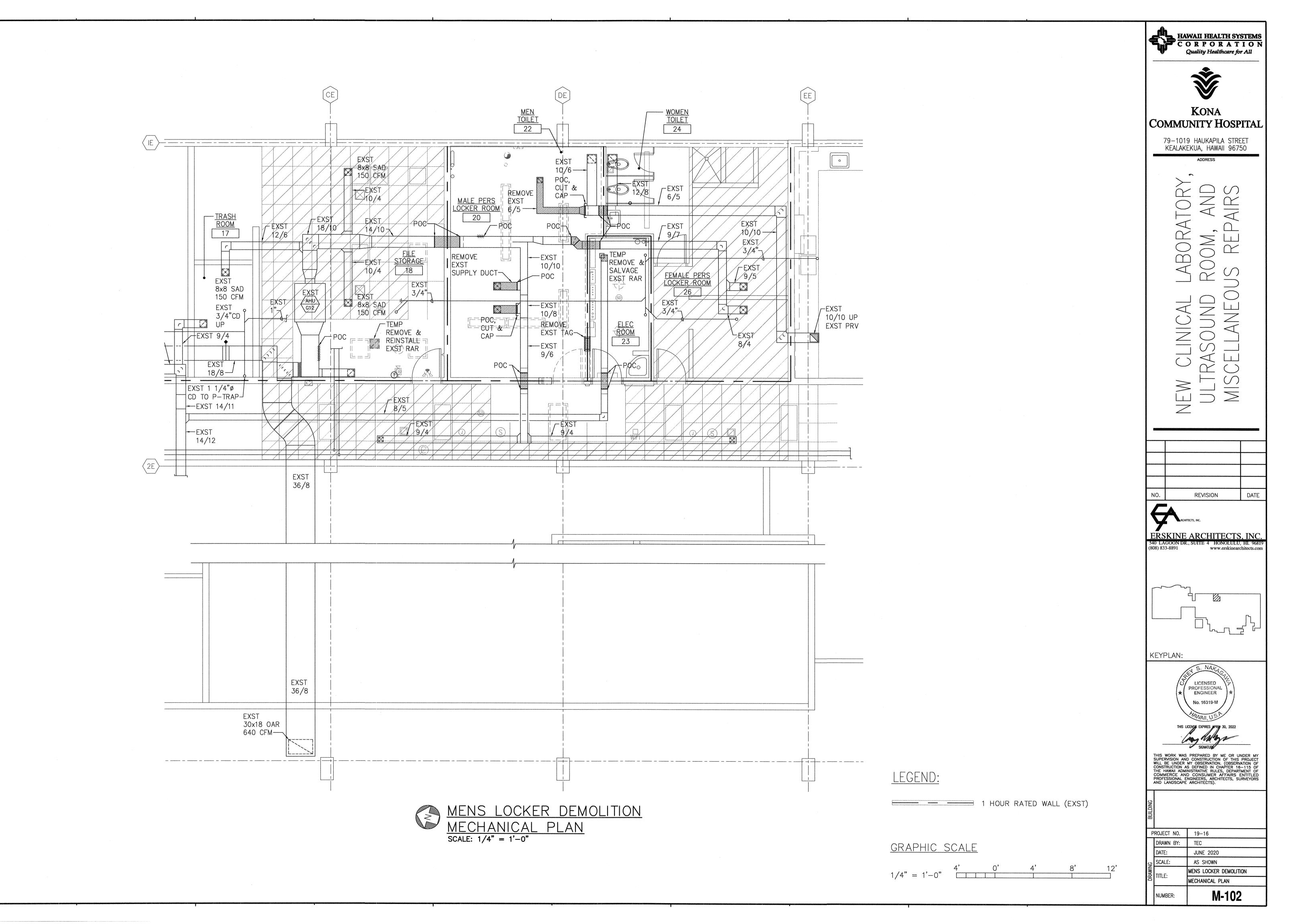
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TITLE:

MECHANICAL NOTES

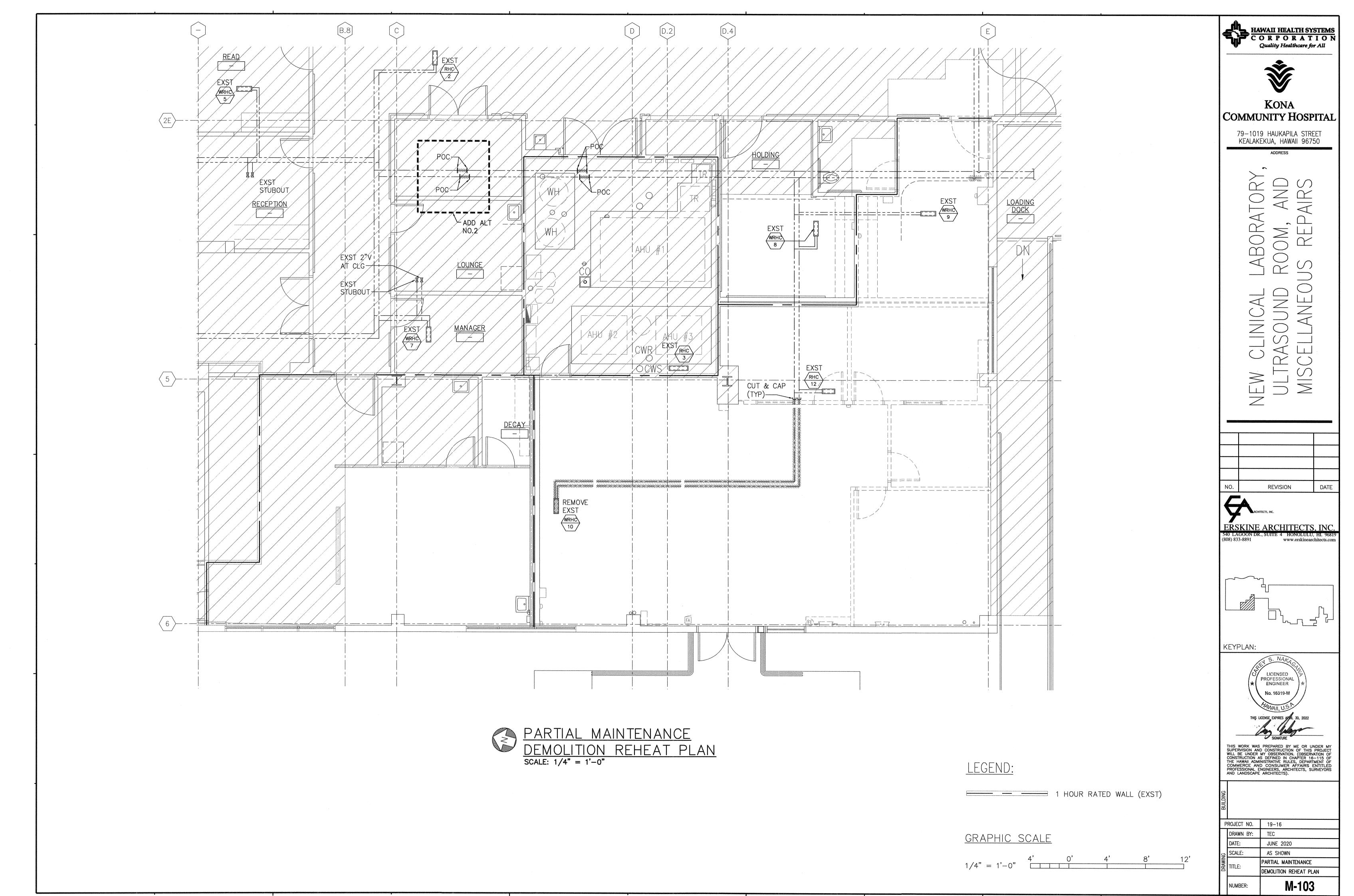
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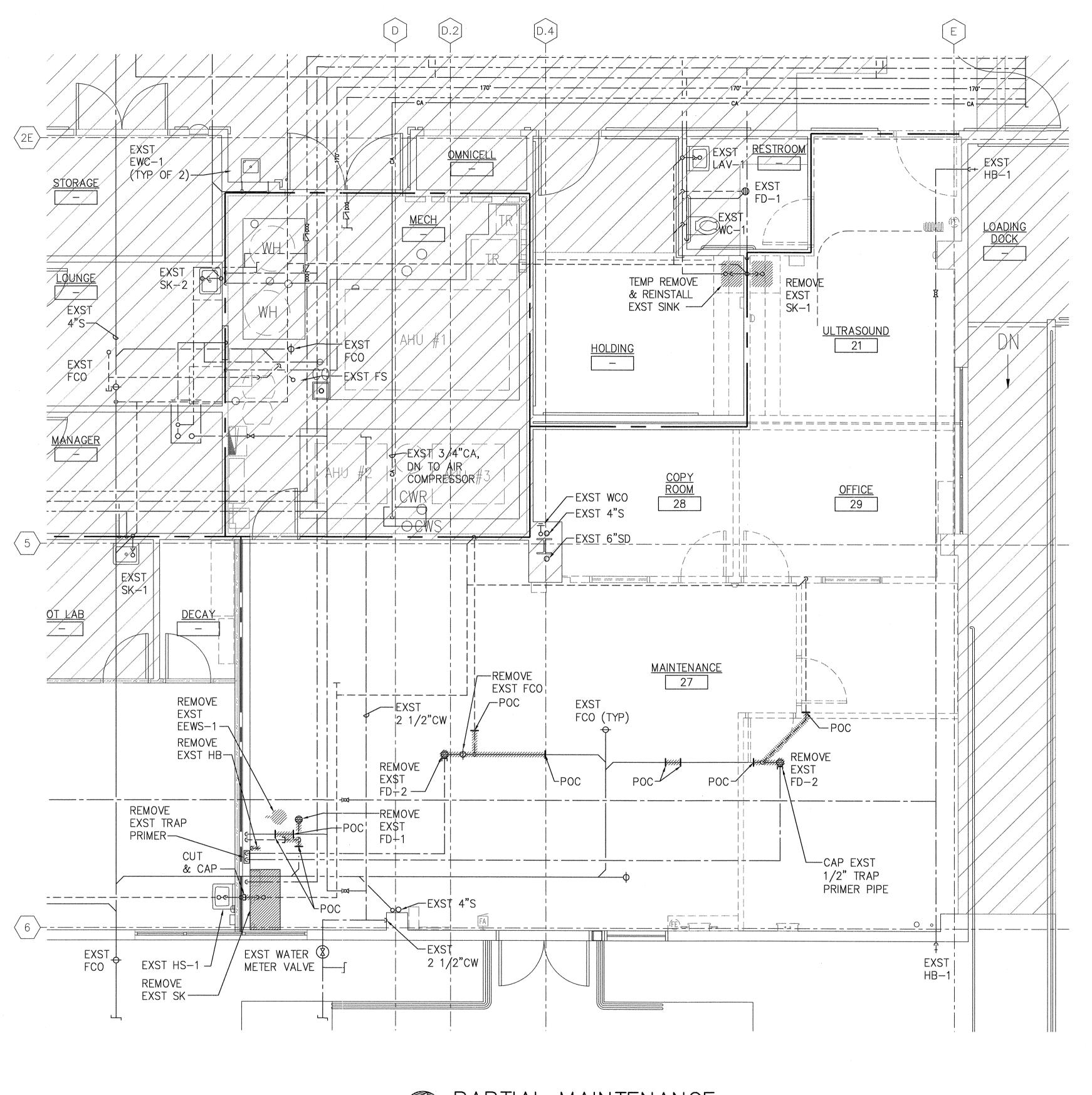


Set(PERMIT(M102 PARTIAL DEMOLITION MECHANICAL PLAN.dwg, 5/29/2)

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LEGEND:

1 HOUR RATED WALL (EXST)

GRAPHIC SCALE

1/4" = 1'-0" 4' 8' 12'

HAWAII HEALTH SYSTEMS
C O R P O R A T I O N
Quality Healthcare for All

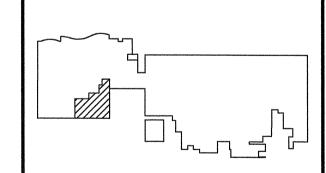


79-1019 HAUKAPILA STREET KEALAKEKUA, HAWAII 96750

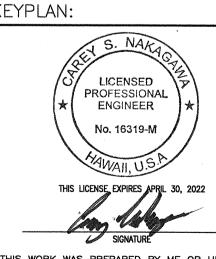
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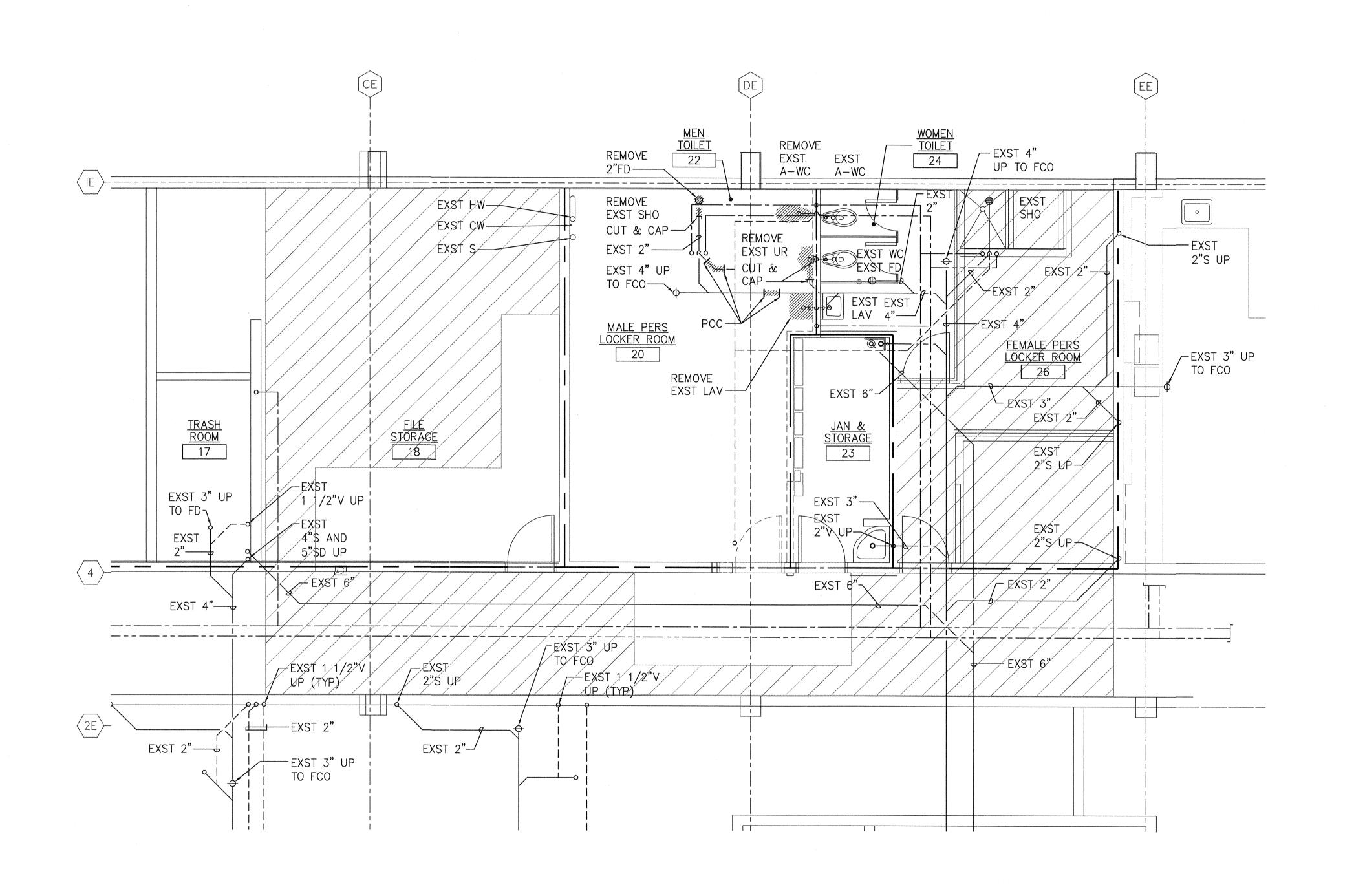


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	NUMBER:	M-104			
Ą	11166	DEMOLITION PLUMBING PLAN			
<b>DRAWING</b>	TITLE:	PARTIAL MAINTENANCE			
9	SCALE:	AS SHOWN			
	DATE:	JUNE 2020			
	DRAWN BY:	TEC			
P	ROJECT NO.	19–16			
BUILDING					
	PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS).				





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1 HOUR RATED WALL (EXST)

<u>GRAPHIC SCALE</u>

1/4" = 1'-0" 4' 8' 12'





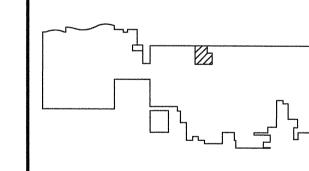
KONA **COMMUNITY HOSPITAL** 

79-1019 HAUKAPILA STREET KEALAKEKUA, HAWAII 96750

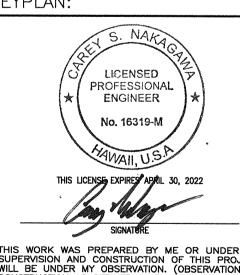
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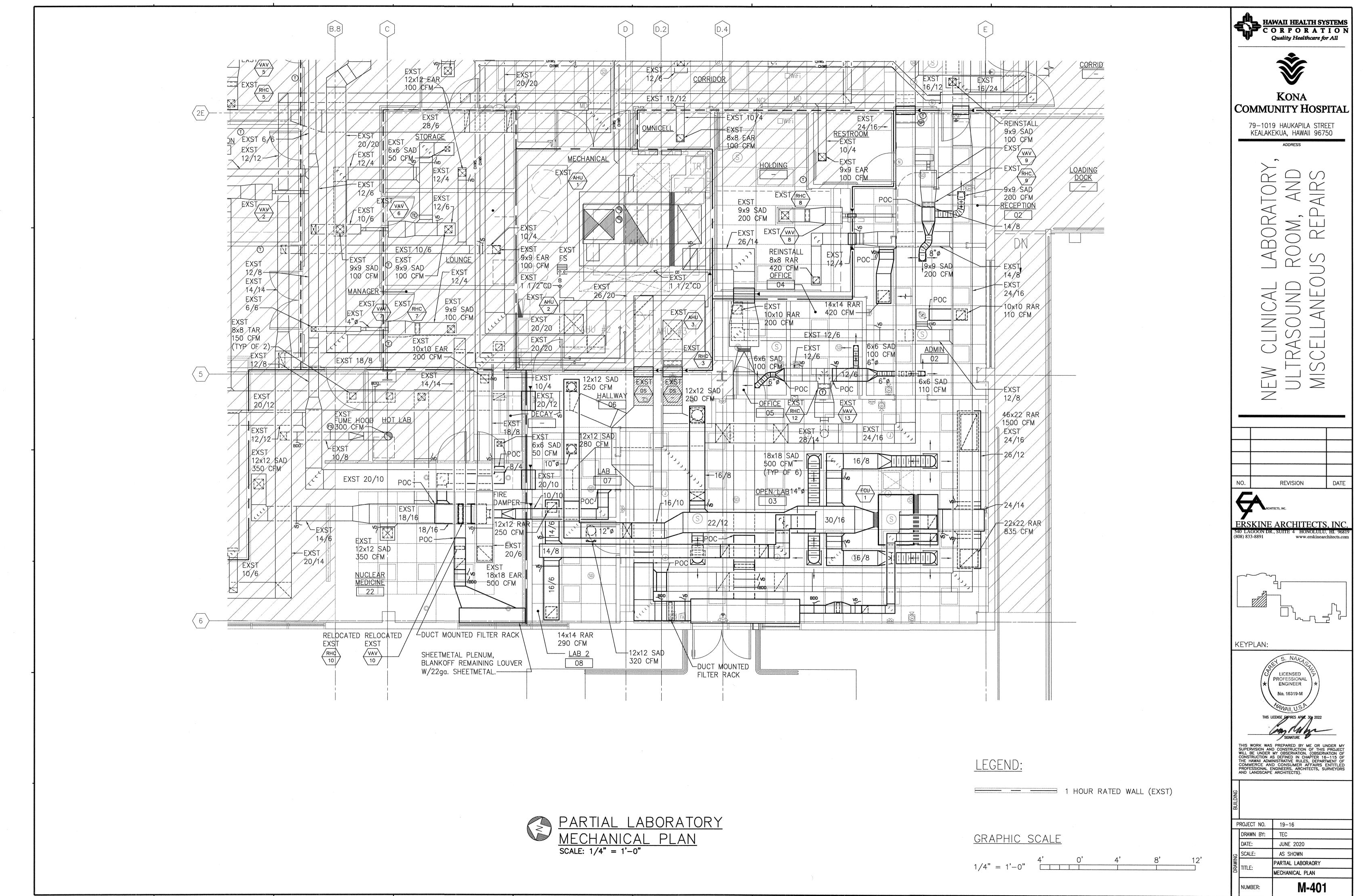




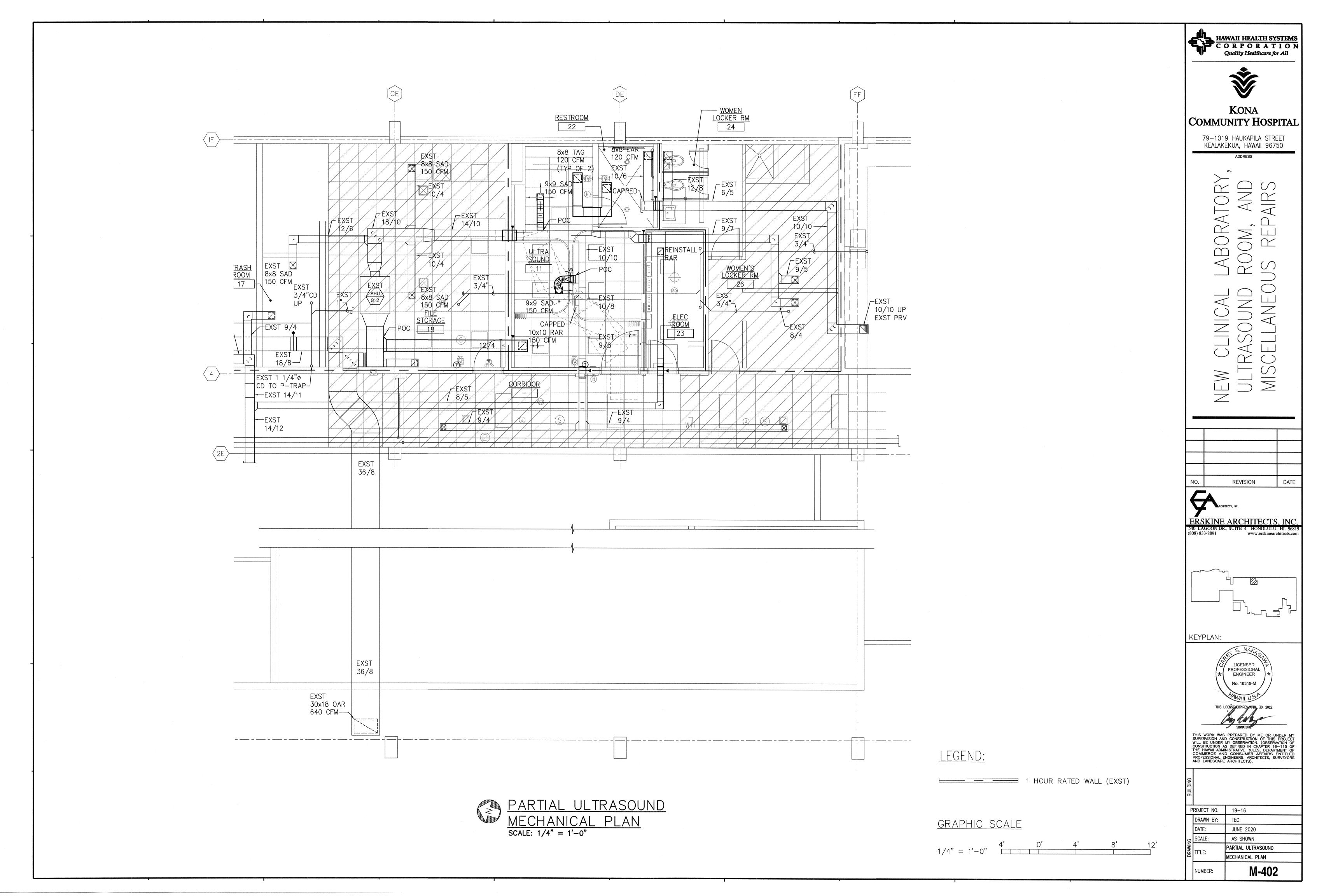


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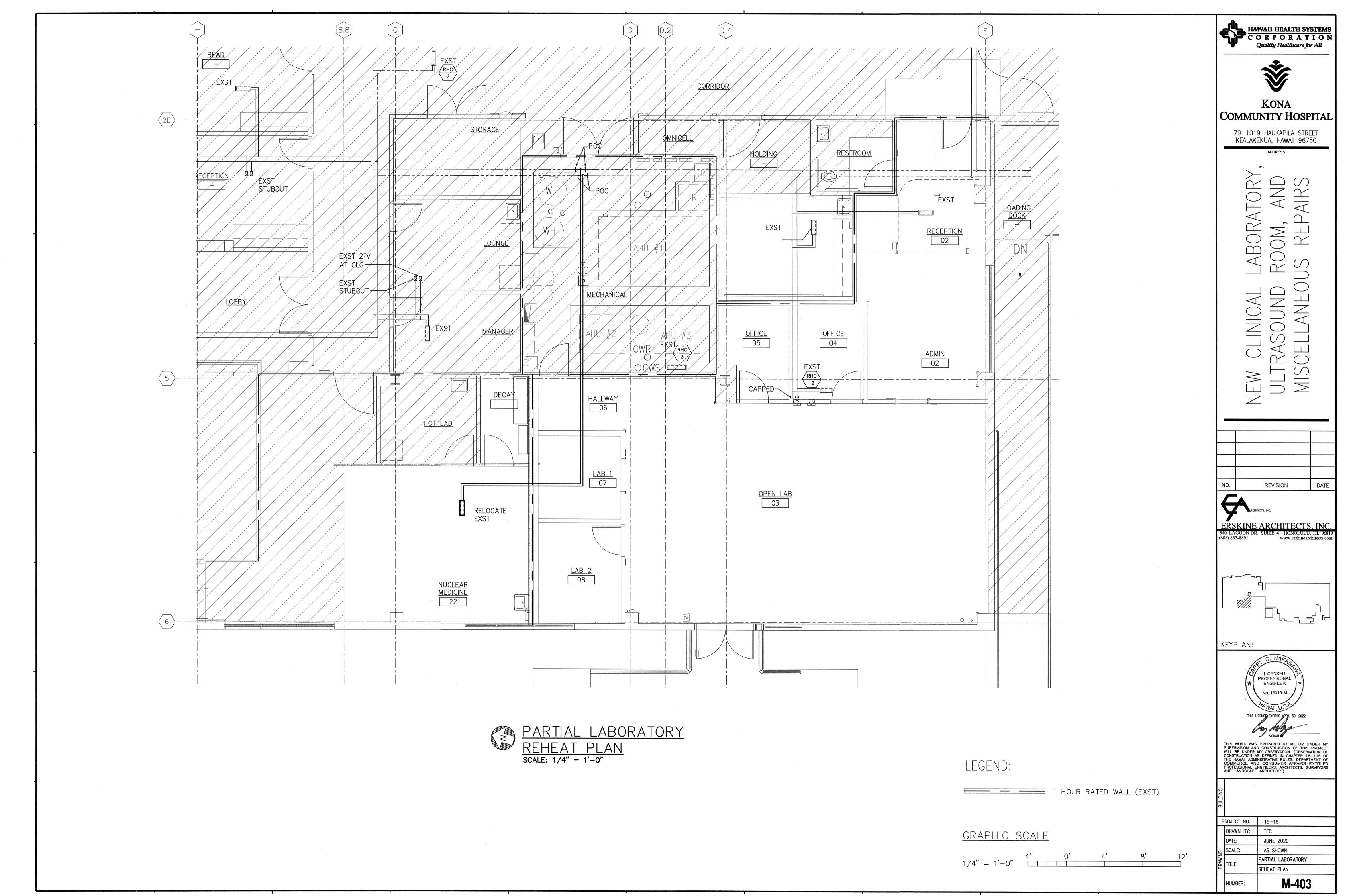
		AND LANDSCAPE ARCHITECTS).		
	BUILDING			
	PROJECT NO.		19–16	
	16	DRAWN BY:	TEC	
		DATE:	JUNE 2020	
		SCALE:	AS SHOWN	
	DRAWING	TITLE:	MENS LOCKER DEMOLITION	
	占		PLUMBING PLAN	
		NUMBER:	M-105	



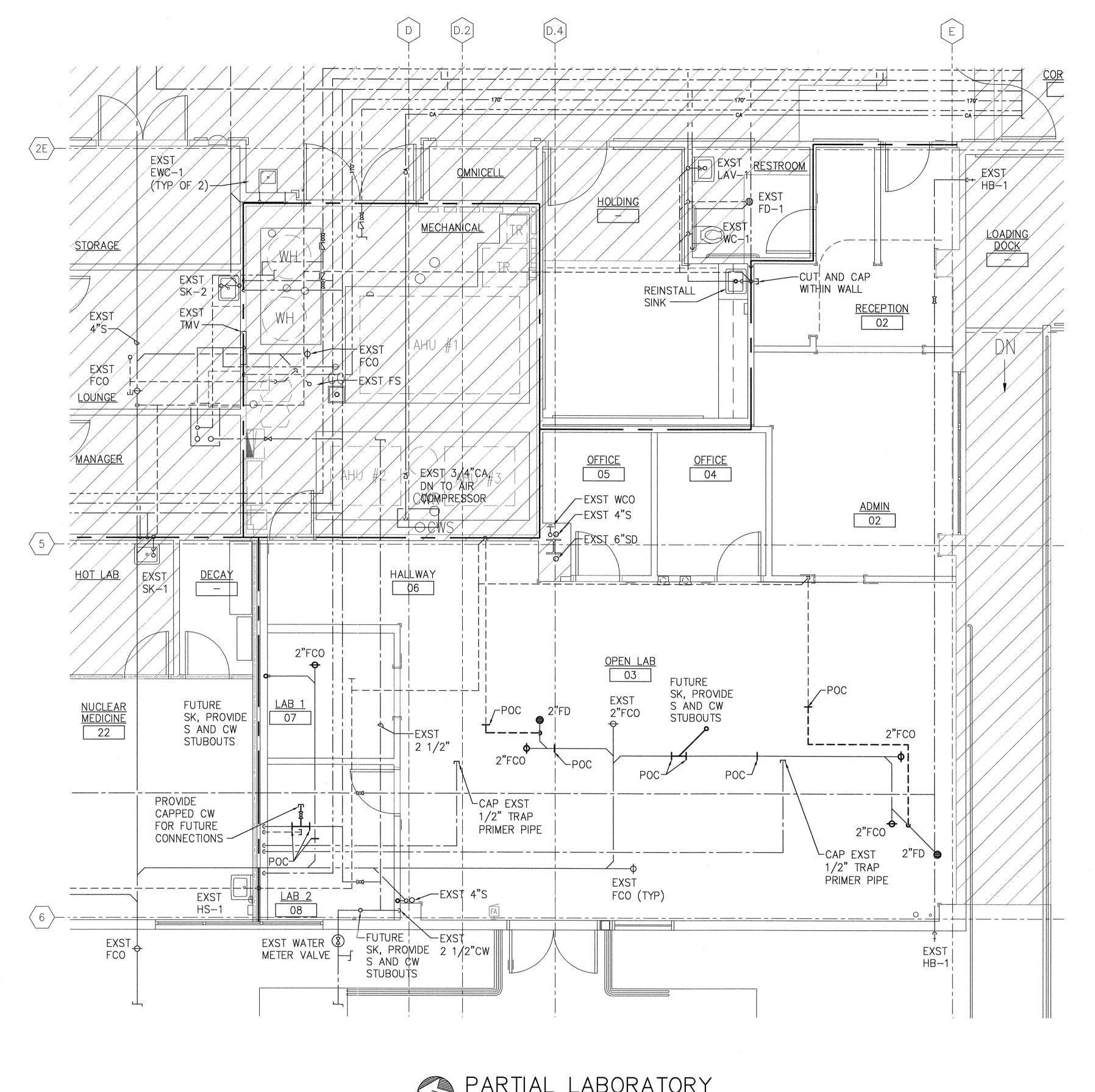
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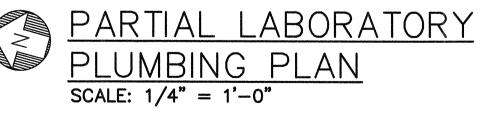


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LEGEND:

1 HOUR RATED WALL (EXST)

GRAPHIC SCALE

1/4" = 1'-0" 4' 8' 12'



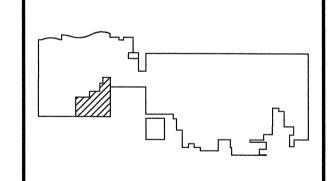


79-1019 HAUKAPILA STREET KEALAKEKUA, HAWAII 96750

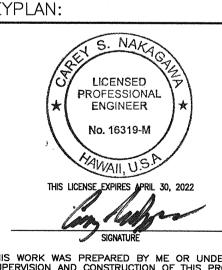
NEW CLINICAL LABORATORY,
ULTRASOUND ROOM, AND
MISCELLANFOLIS REPAIRS

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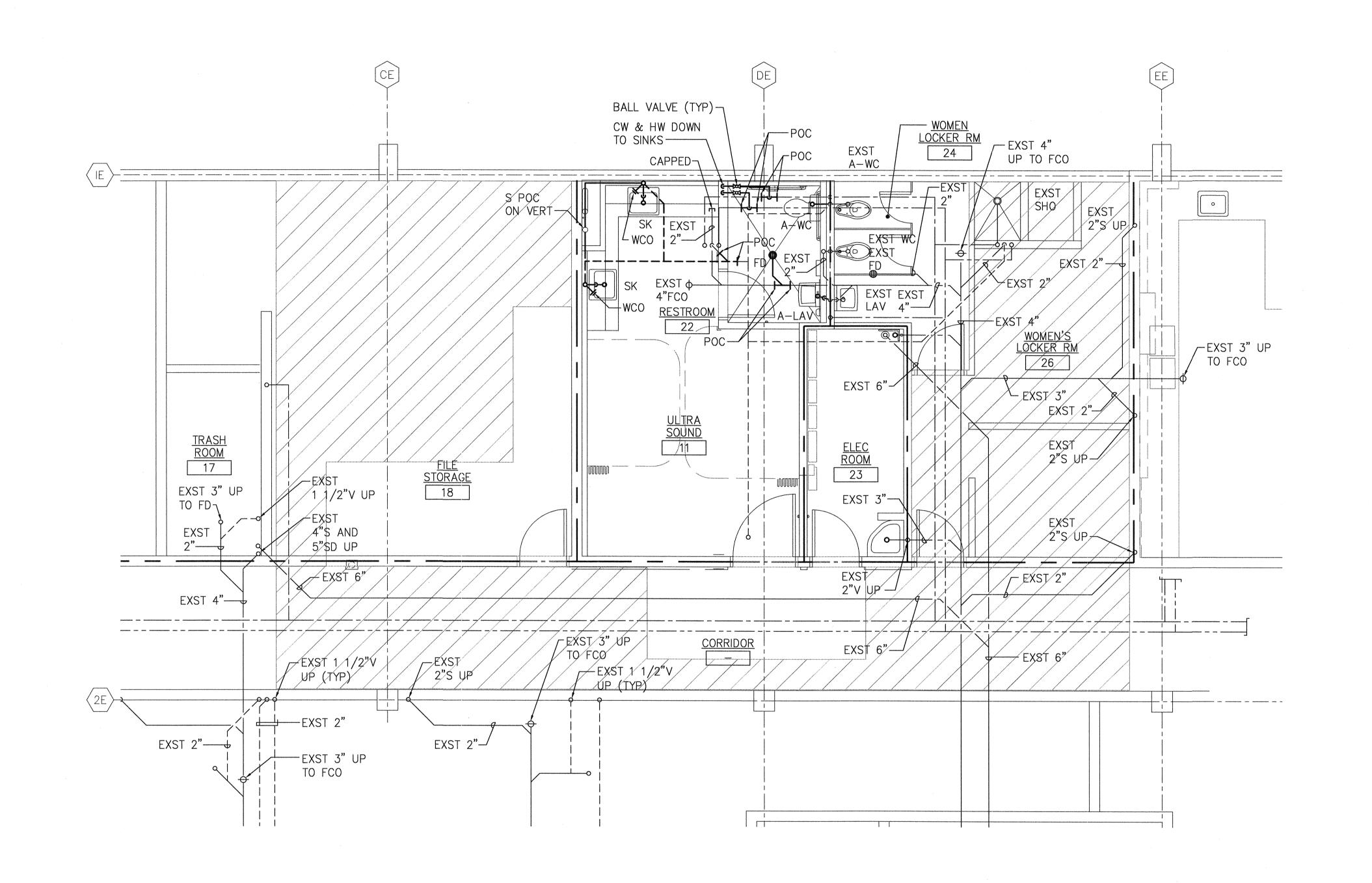


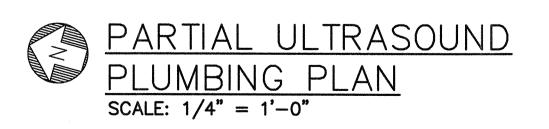
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	COMMERCE AND CONSUMER AFFAIRS ENTITLED PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS).			
BUILDING				
PROJECT NO.		19–16		
	DRAWN BY:	TEC		
	DATE:	JUNE 2020		
<u>Ş</u>	SCALE:	AS SHOWN		
DRAWING	TITLE:	PARTIAL LABORATORY		
ద	IIILL.	PLUMBING PLAN		
	NUMBER:	M-404		





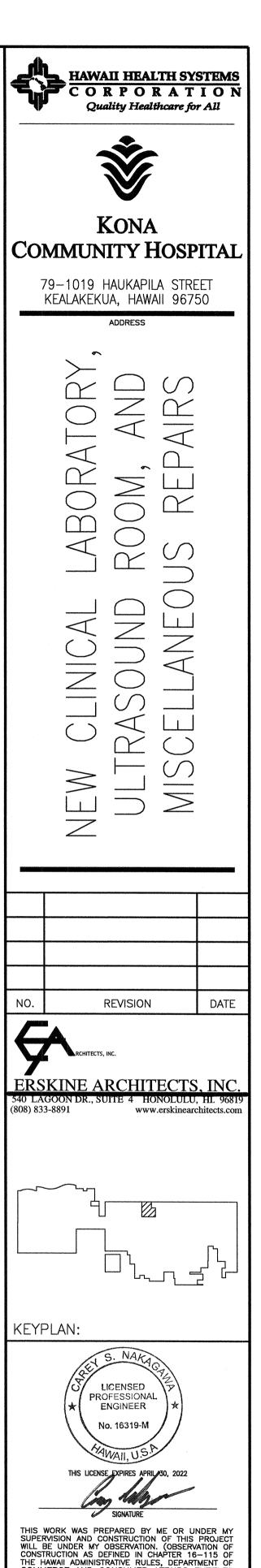


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1 HOUR RATED WALL (EXST)

GRAPHIC SCALE

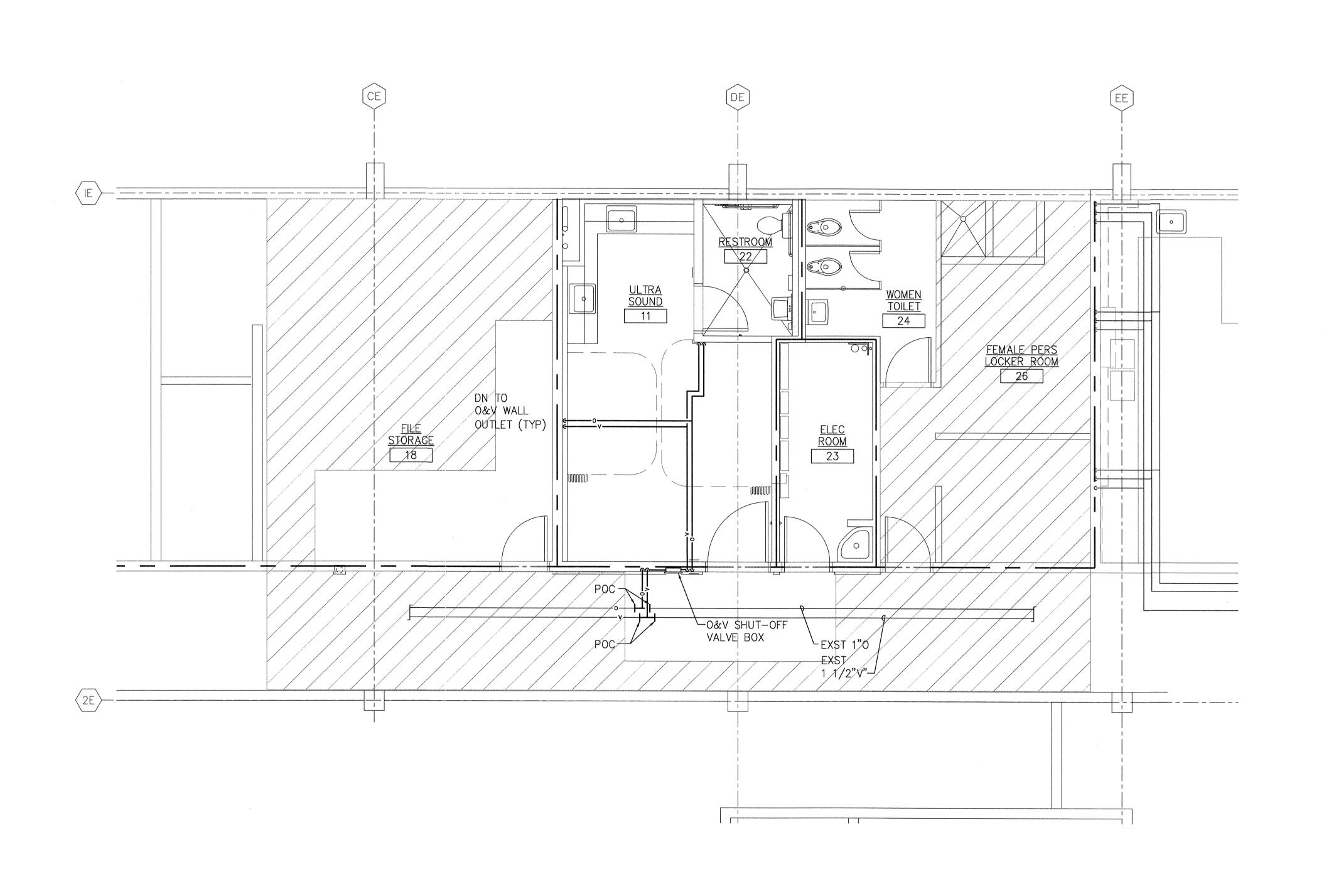
1/4" = 1'-0" 4' 8' 12'



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PROJECT NO. 19-16 DRAWN BY: DATE: JUNE 2020 SCALE: AS SHOWN PARTIAL ULTRASOUND PLUMBING PLAN M-405

NUMBER:





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1 HOUR RATED WALL (EXST)

<u>Graphic scale</u>

1/4" = 1'-0" 4' 8' 12'

HAWAII HEALTH SYSTEMS
C O R P O R A T I O N
Quality Healthcare for All



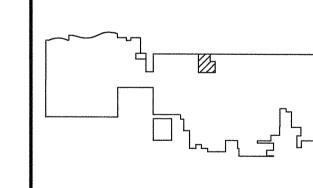
COMMUNITY HOSPITAL
79-1019 HAUKAPILA STREET

79-1019 HAUKAPILA STREET KEALAKEKUA, HAWAII 96750

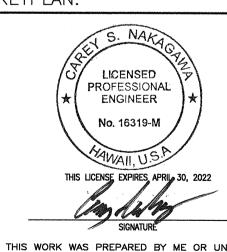
> EW CLINICAL LABORATORY, JLTRASOUND ROOM, AND AISCELLANFOLIS REPAIRS

NO.	REVISION	DATE





KEYPLAN:



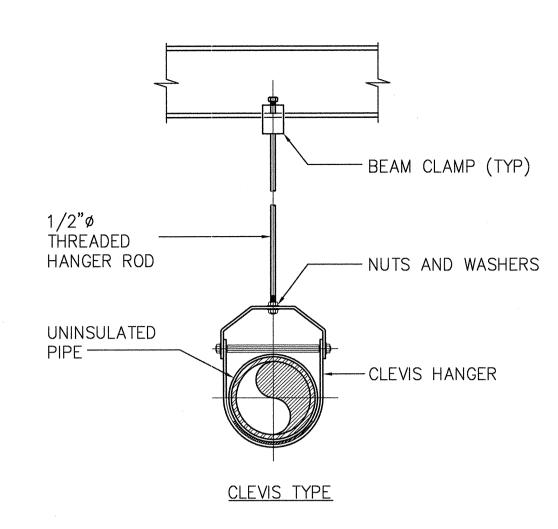
SIGNATURE

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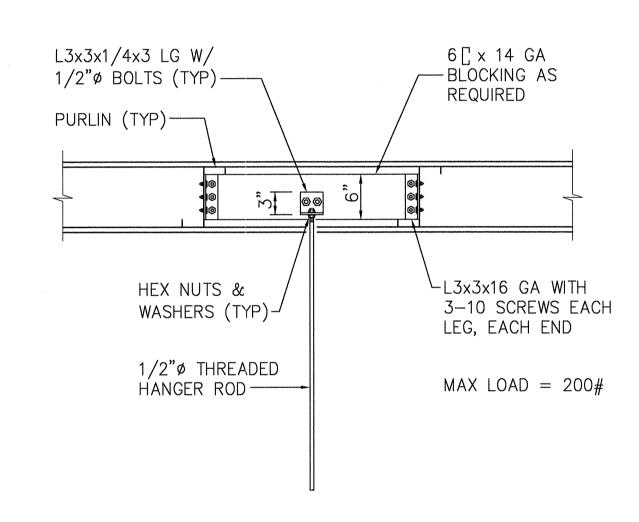
	AND DANDOON E	ANOTHEOTO).
BNITDING		
Р	ROJECT NO.	19–16
	DRAWN BY:	TEC
	DATE:	JUNE 2020
S)	SCALE:	AS SHOWN
DRAWING	TITLE:	PARTIAL ULTRASOUND
占	11166.	MED GAS PLAN

NUMBER:

<sup>AN</sup> **Л-406** 



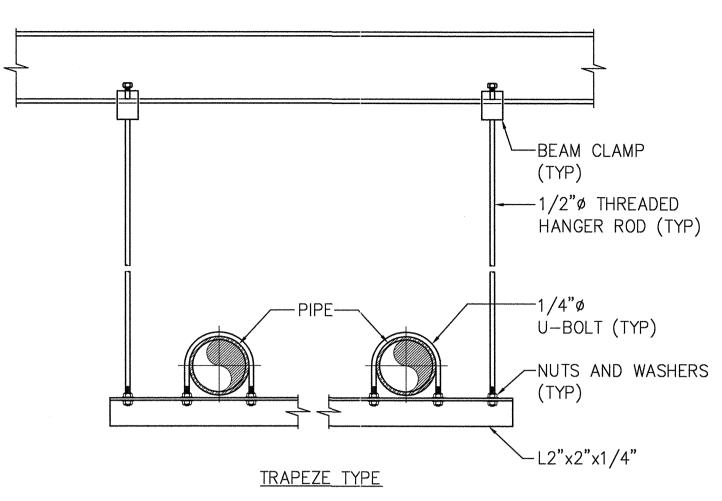
# 1 PIPE HANGER DETAIL M-501 SCALE: NONE



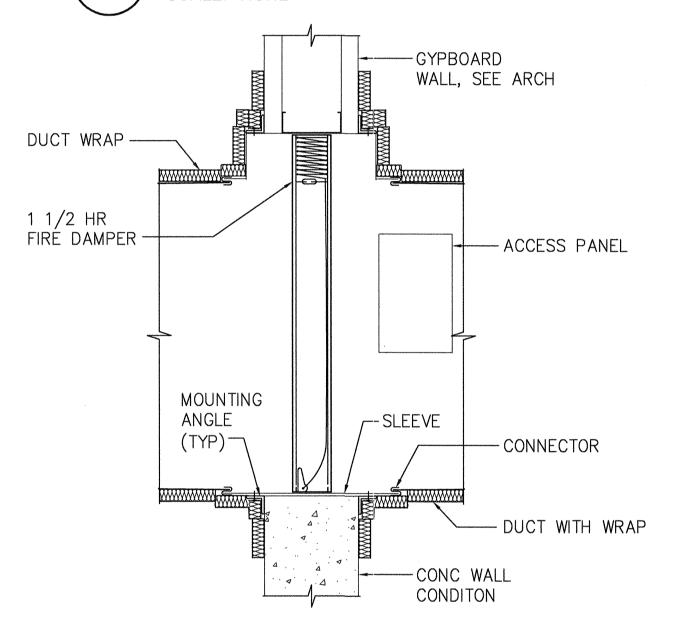
5 ALTERNATE HANGER

ATTACHMENT DETAIL

SCALE: NONE

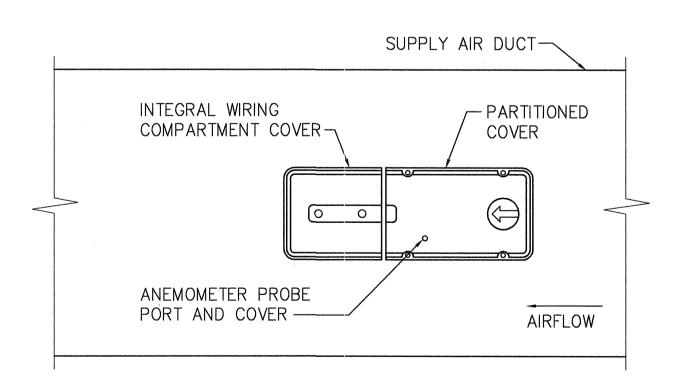


2 PIPE HANGER DETAIL
M-501 SCALE: NONE



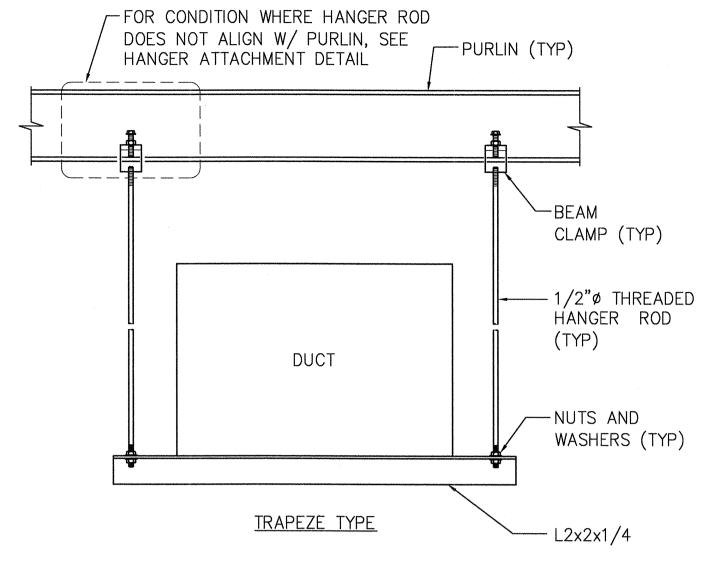
NOTE: TYPE 'A' DAMPER SIMILAR.

# 6 VERTICAL FIRE DAMPER DETAIL M-501 SCALE: NONE



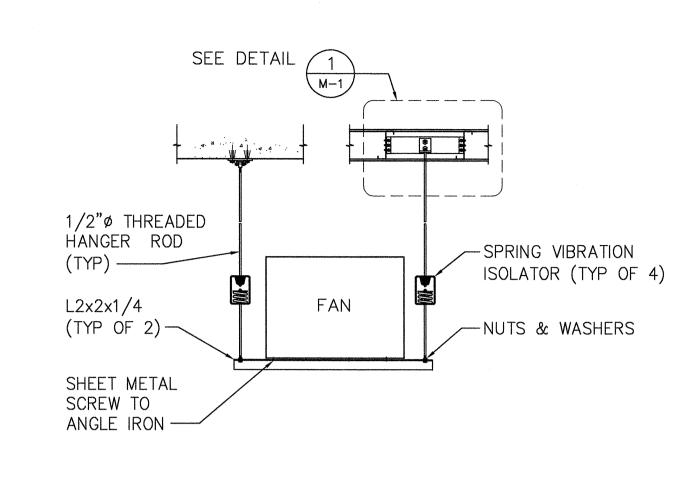
ELEVATION VIEW

7 DUCT DETECTOR DETAIL
M-501 SCALE: NONE

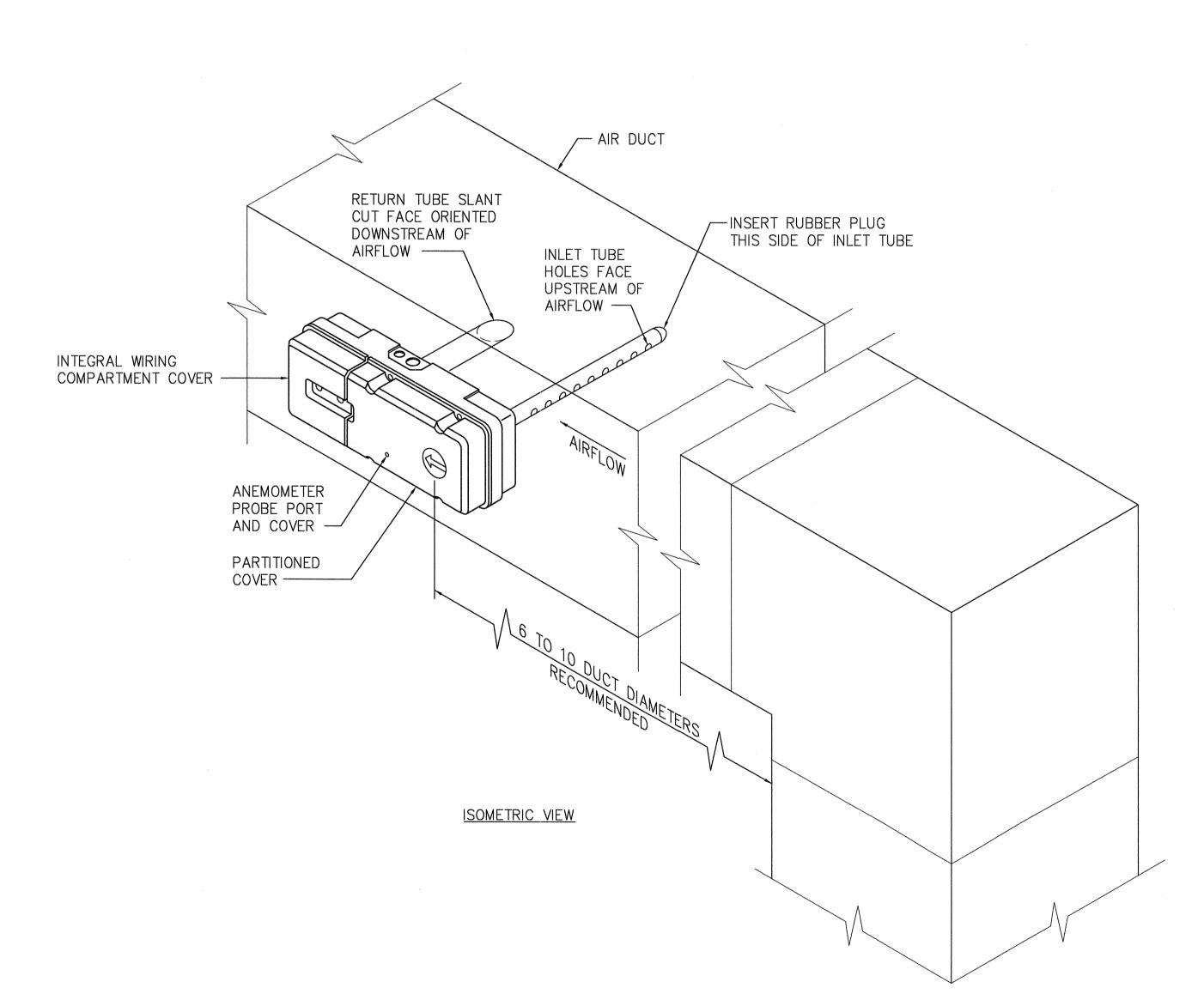


TRAPEZE DUCT HANGER

M-501 SCALE: NONE



4 EQUIPMENT HANGER DETAIL
M-501 SCALE: NONE





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KONA COMMUNITY HOSPITAL

> 79—1019 HAUKAPILA STREET KEALAKEKUA, HAWAII 96750

ADDRESS

NEW CLINICAL LABORATORY, ULTRASOUND ROOM, AND MISCELLANEOUS REPAIRS

NO. REVISION DATE

ERSKINE ARCHITECTS, INC.

540 LAGOON DR., SUITE 4 HONOLULU, HI. 9681 (808) 833-8891 www.erskinearchitects.com

KEYPLAN:

LICENSED PROFESSIONAL ENGINEER

No. 16319-M

THIS LICENSE EXPIRES APRIL 30, 20

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PROJECT NO. 19–16

DRAWN BY: TEC

DATE: JUNE 2020

PROJECT NO. 19-16

DRAWN BY: TEC

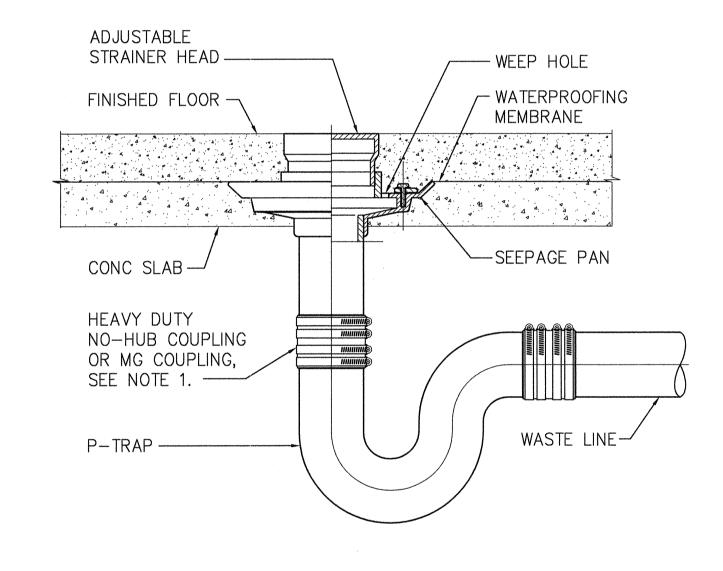
DATE: JUNE 2020

SCALE: AS SHOWN

TITLE:

NUMBER: M-501

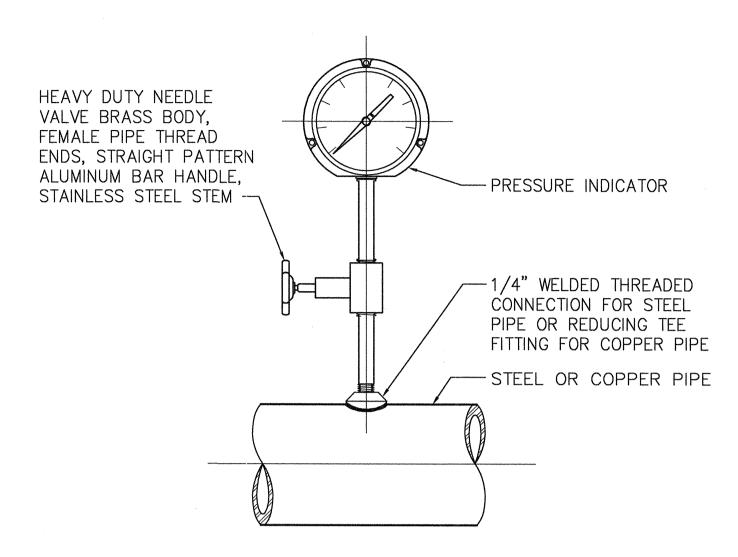




NOTE:

. UNDERGROUND DWV PIPES ARE ABS PIPES & FITTING WITH SOLVENT JOINT CONNECTIONS.

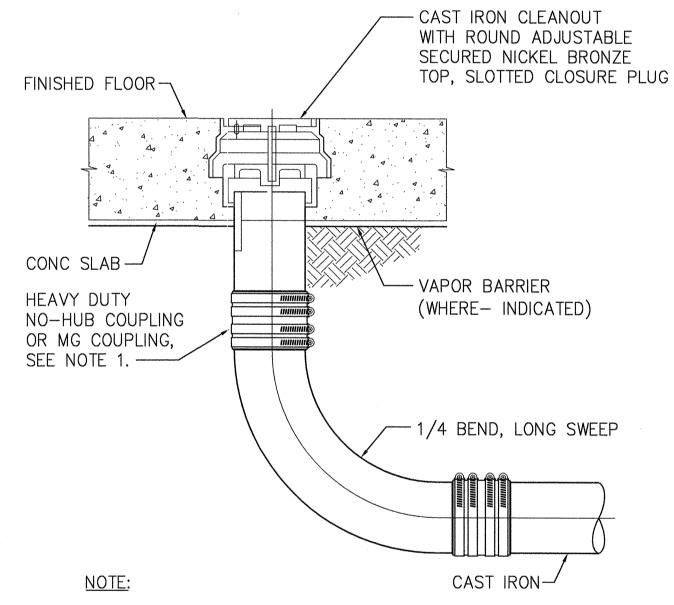
4 FLOOR DRAIN DETAIL
M-502 SCALE: NONE



2 ADJUSTABLE ANGLE

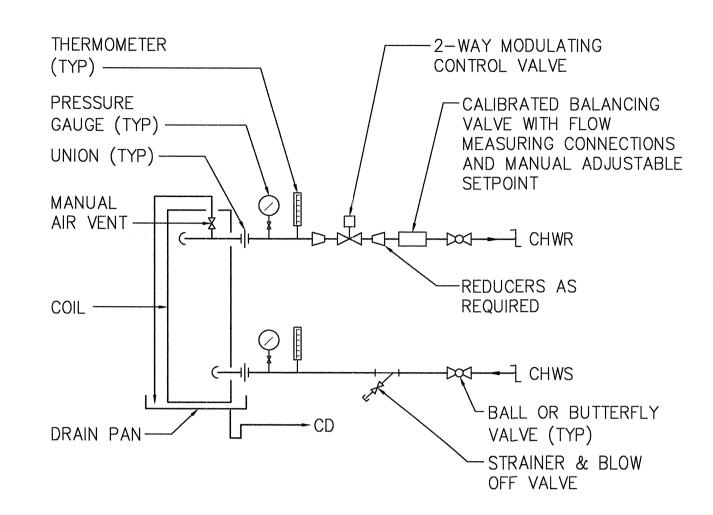
PRESSURE GAUGE DETAIL

SCALE: NONE

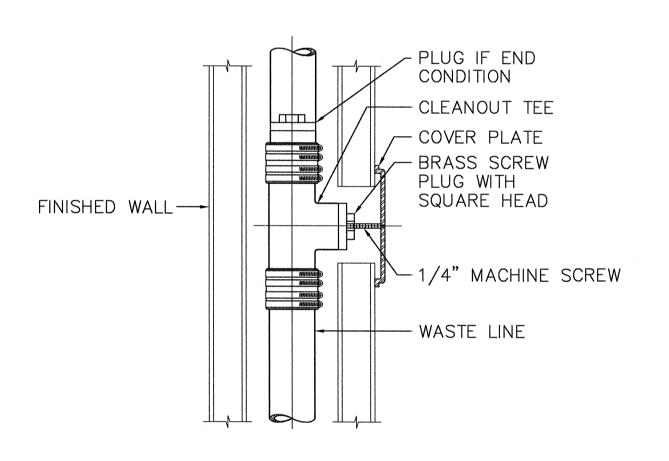


1. UNDERGROUND DWV PIPES ARE ABS PIPES & FITTING WITH SOLVENT JOINT CONNECTIONS.

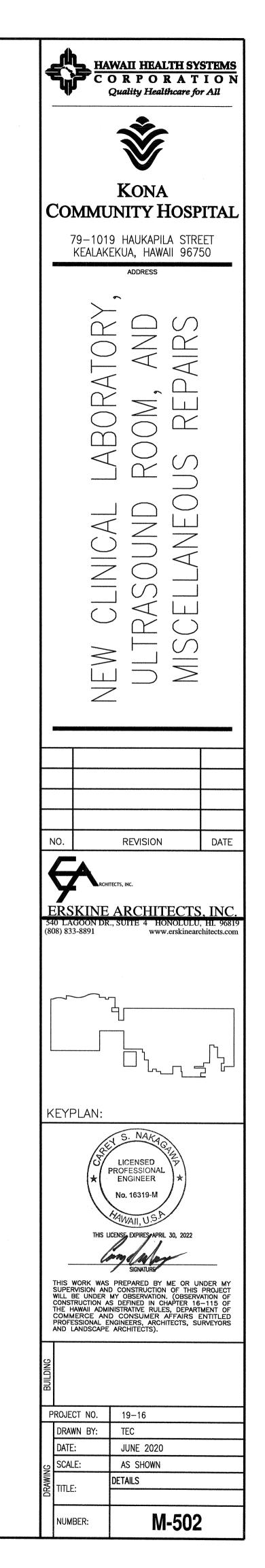
5 FLOOR CLEANOUT DETAIL
M-502 SCALE: NONE



3 AHU AND FCU CONNECTION DETAIL
M-502 SCALE: NONE



6 WALL CLEANOUT DETAIL
M-502 SCALE: NONE



9\19003co1 Kona Community Hospital Relocate Lab\Drawings\Running Set\PERMIT\M502 DETAILS.dwg, 5/29/2020 2:48:08 PM, Bluebeam PDF10 Printer HighRes.pc3

# FAN COIL UNIT SCHEDULE

FAN COIL UNITS SHALL BE SINGLE ZONE, 1,800 RPM MAXIMUM MOTOR SPEED, FORWARD CURVED BLADES, WITH CAPACITIES TO MATCH CONDITIONS INDICATED. PROVIDE STARTERS.

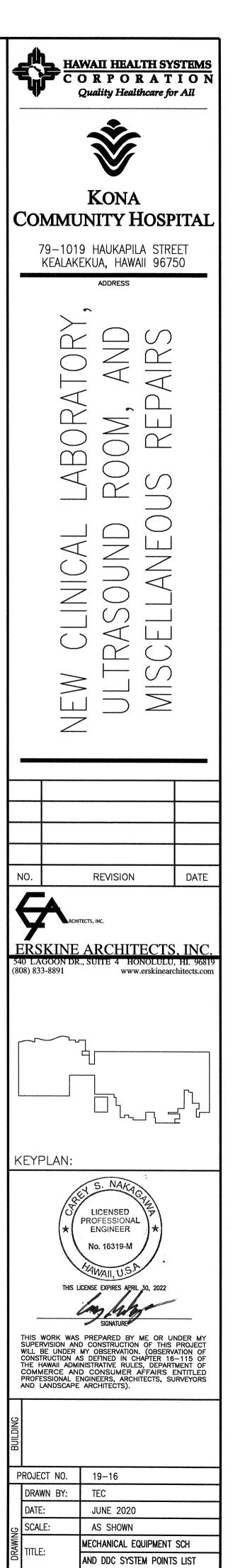
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NO	UNIT ORIENTATION	SA CFM	OA CFM	E.S.P. ("w.g.)	MIN HP	DRIVE	FAN SPEED	EAT (DB/WB)	ECHWT (°F)	LCHWT (°F)	MIN ROWS	TCC* (BTUH)	SCC* (BTUH)	CHW GPM	CHW ΔP (FT)	THICKNESS (in)	TYPE	ELECTRICAL POWER	WEIGHT (LBS)	REMARKS
FCU 1	HORIZONTAL BELT DRIVEN	3,840	1,505	1.0	3	BELT	861	73.3/61.5	45	55	6	114,800	92,600	22.8	12.5	2	MERV 13	208V/3ø/60HZ		CARRIER 42BH, TRANE OR APPROVED EQUAL.

<sup>\*</sup> MINIMUM NET COOLING CAPACITIES

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COOLING COIL CONTROL VALVE			<del>                                     </del>								+-+	-						<b></b>														
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COOLING COIL LEAVING TEMP											_	-		+		-	• •			_						+					+	

DDC CONTROLS SHALL BE BY SETPOINT SYSTEMS (WWW.SETPOINTSYSTEMS.COM)

DDC SYSTEM POINTS LIST



M-601

CHILLED WATER PIPING DIAGRAM SCALE: NONE



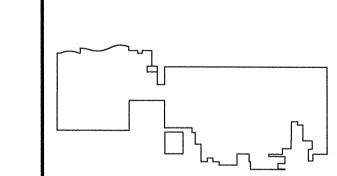


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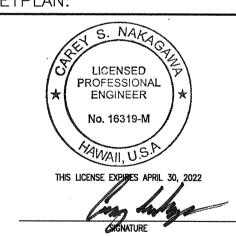
CLINICAL

NO.	REVISION	DATE



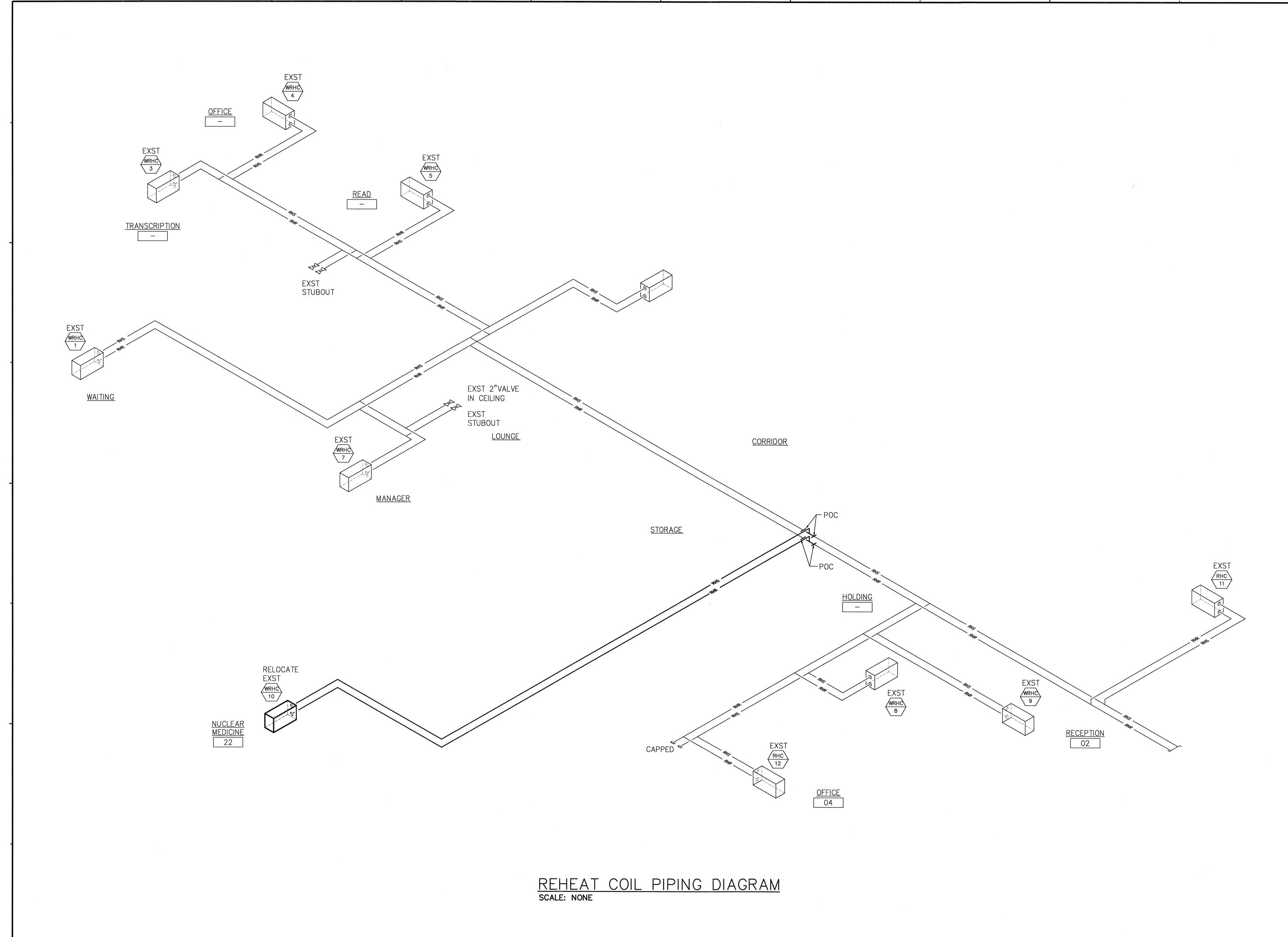


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	NUMBER:	M-901
R	TITLE:	
DRAWING	TriTri r	CHILLED WATER PIPING DIAGRAM
9	SCALE:	AS SHOWN
	DATE:	JUNE 2020
	DRAWN BY:	TEC
F	ROJECT NO.	19–16
BUILDIN		



HAWAII HEALTH SYSTEMS
CORPORATION
Quality Healthcare for All



KONA COMMUNITY HOSPITAL

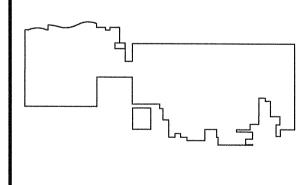
79—1019 HAUKAPILA STREET KEALAKEKUA, HAWAII 96750

> EW CLINICAL LABORATORY, JLTRASOUND ROOM, AND MISCELLANEOUS REPAIRS

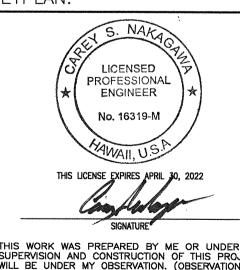
NO. REVISION DATE

ERSKINE ARCHITECTS, INC.

540 LAGOON DR., SUITE 4 HONOLULU, HI. 96 (808) 833-8891 www.erskinearchitects.com

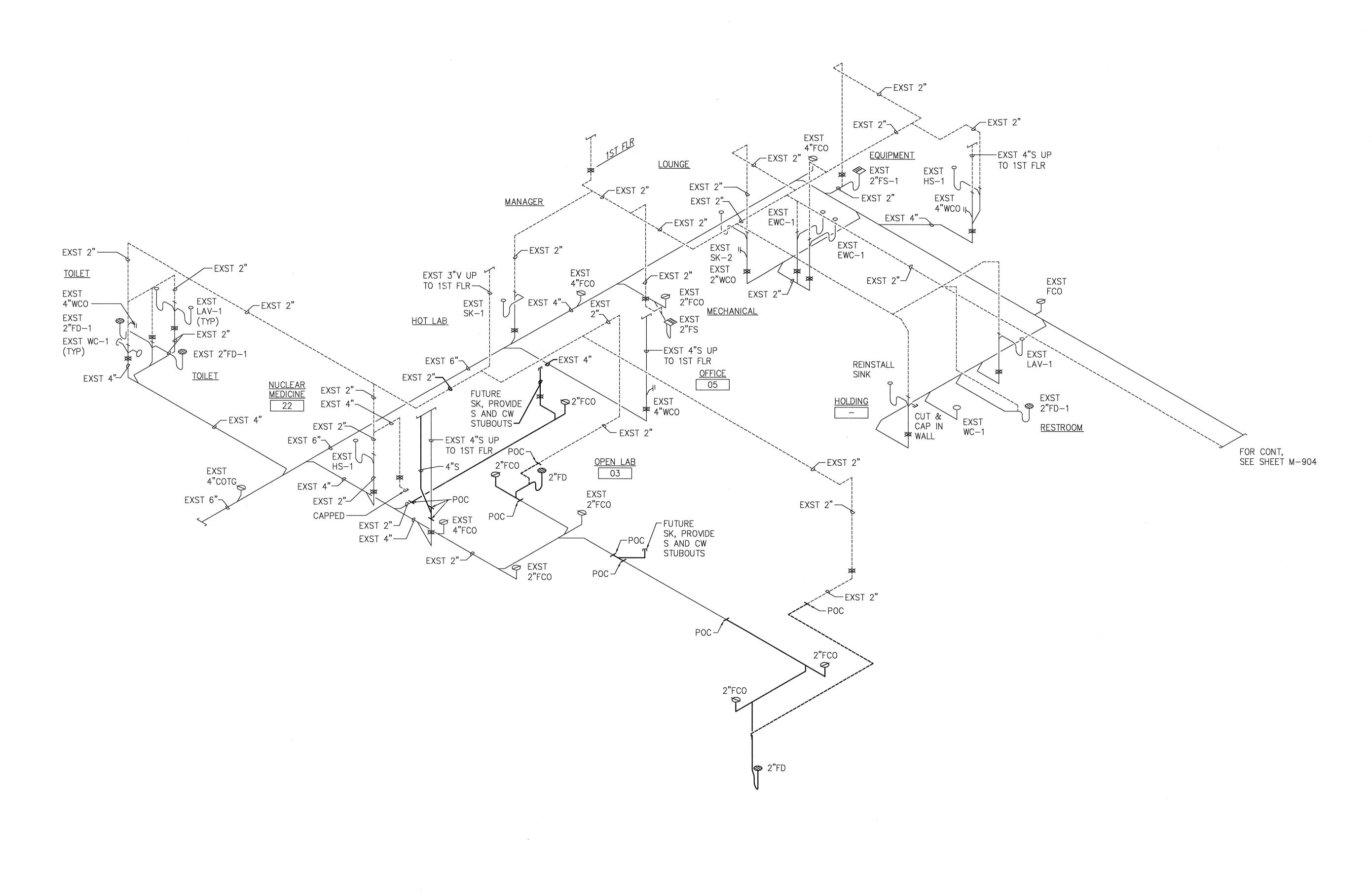


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	NUMBER:	M-902
DRAWING	TITLE:	REHEAT COIL PIPING DIAGRAM
S N	SCALE:	AS SHOWN
	DATE:	JUNE 2020
	DRAWN BY:	TEC
Р	PROJECT NO.	19–16
BUILDIN		



HAWAII HEALTH SYSTEMS
C O R P O R A T I O N
Quality Healthcare for All

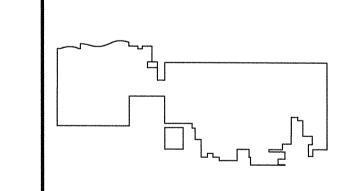


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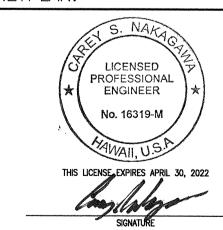
79—1019 HAUKAPILA STREET KEALAKEKUA, HAWAII 96750

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NO.	REVISION	DATE



KEYPLAN:



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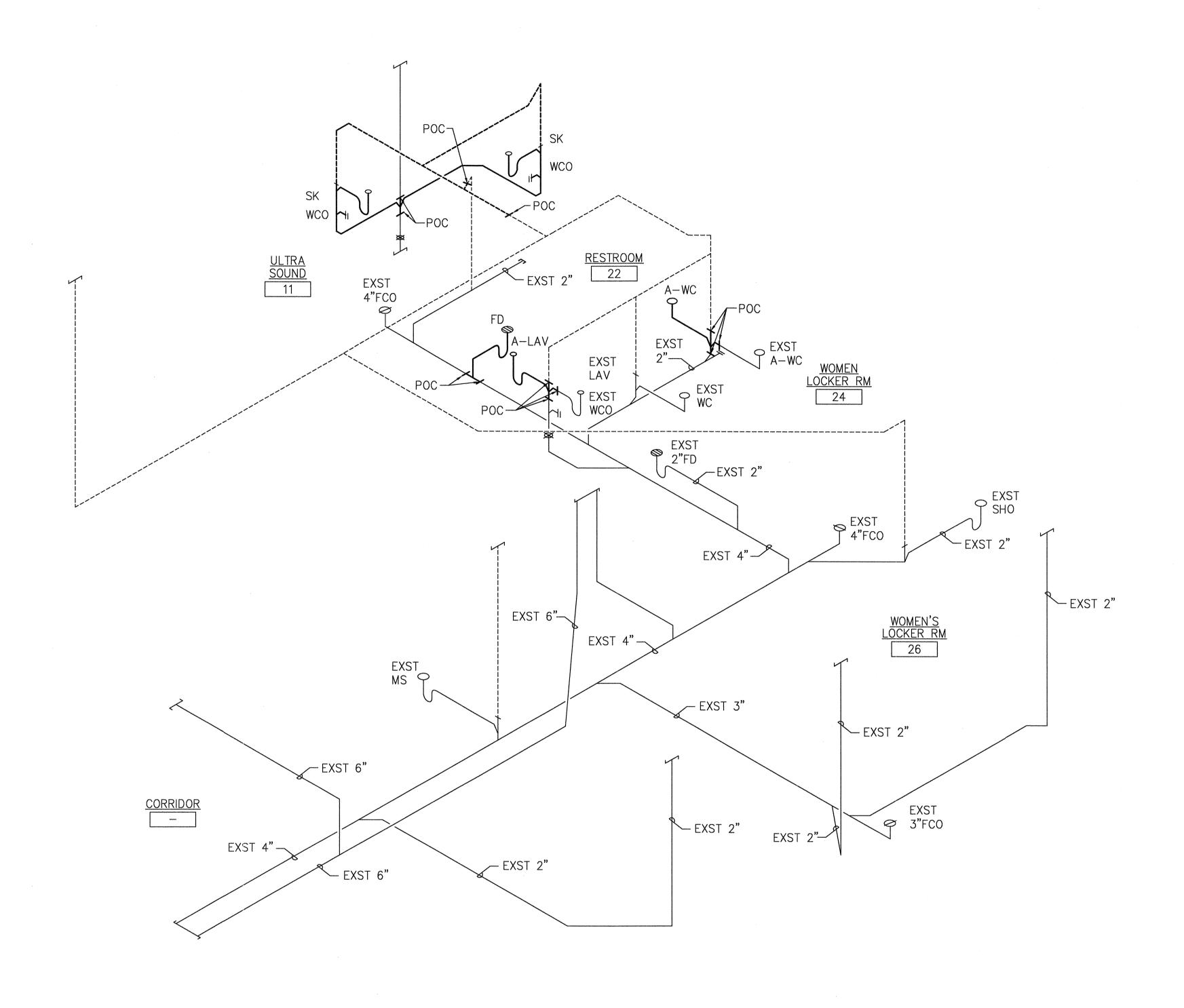
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Р	ROJECT NO.	19–16
	DRAWN BY:	TEC
	DATE:	JUNE 2020
9	SCALE:	AS SHOWN
AWING	T17-1 F	SANITARY PIPING DIAGRAM

- LABORATORY

NUMBER:

M-903

SANITARY PIPING DIAGRAM - LABORATORY SCALE: NONE



SANITARY PIPING DIAGRAM - ULTRASOUND SCALE: NONE





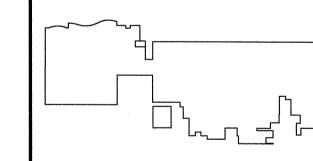
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ADDRESS

NEW CLINICAL LABORATORY,
ULTRASOUND ROOM, AND
MISCFILLANFOUS RFPAIRS

	NO.	REVISION	DATE
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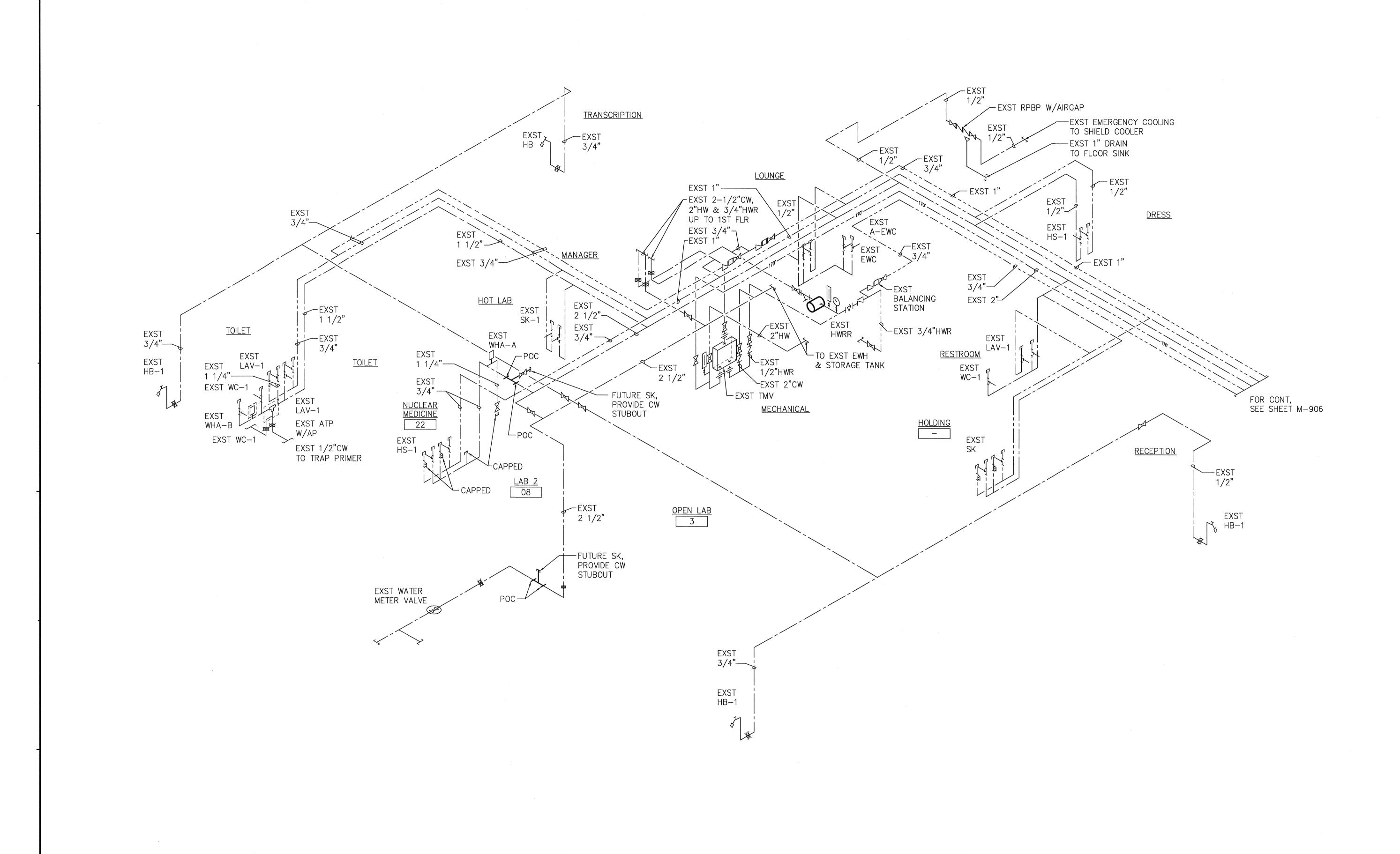


KEYPLAN:



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	NUMBER:	M-904
늄	IIILL.	- ULTRASOUND
DRAWING	TITLE:	SANITARY PIPING DIAGRAM
Ş	SCALE:	AS SHOWN
	DATE:	JUNE 2020
	DRAWN BY:	TEC
Р	ROJECT NO.	19–16
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WATER PIPING DIAGRAM - LABORATORY SCALE: NONE





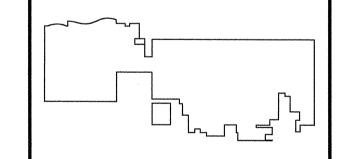
**COMMUNITY HOSPITAL** 

79-1019 HAUKAPILA STREET KEALAKEKUA, HAWAII 96750

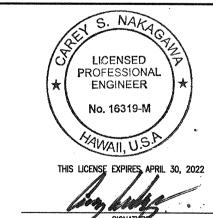
CLINICAL

REVISION

ERSKINE ARCHITECTS, INC



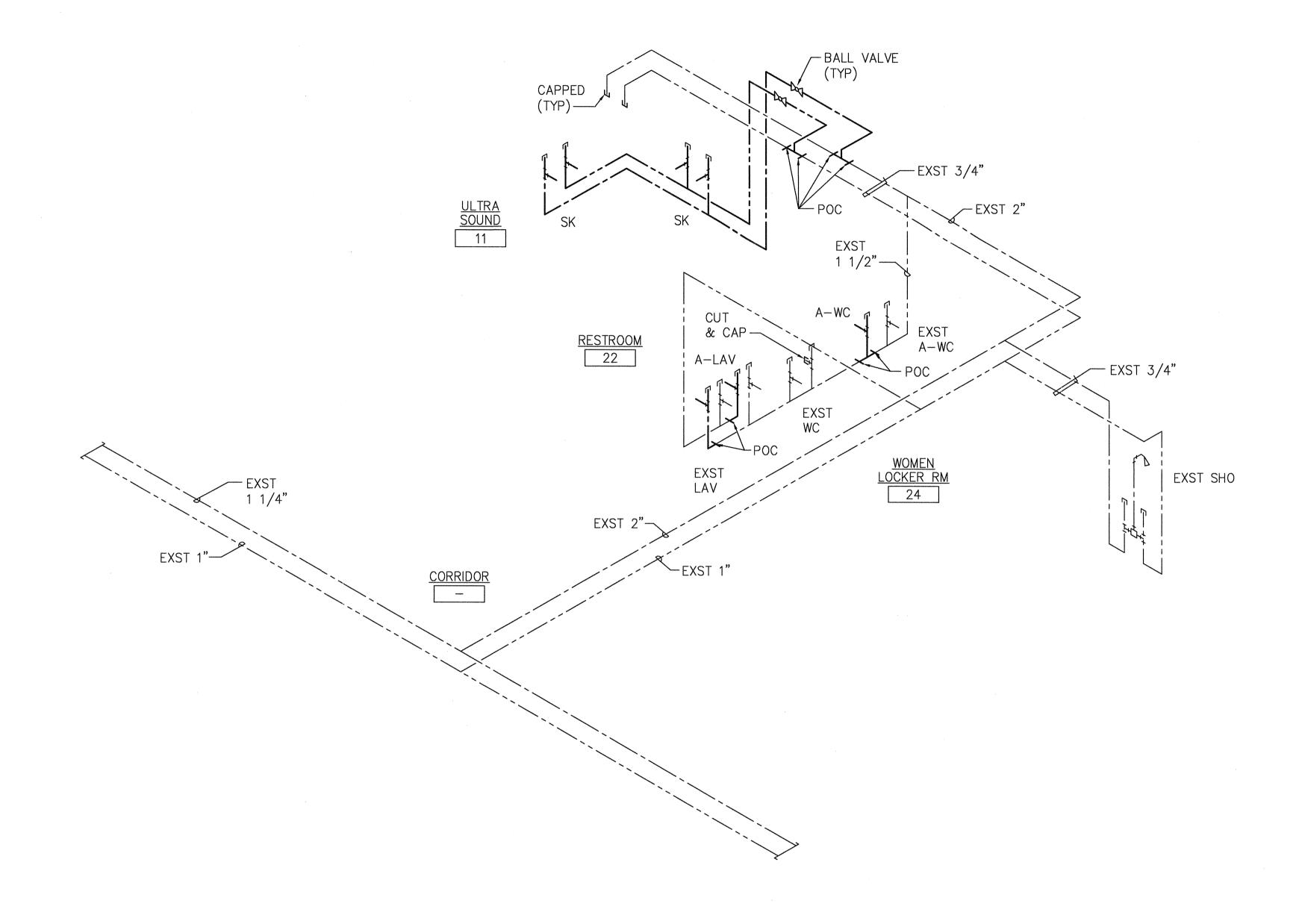
KEYPLAN:



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PROJECT NO. 19-16 DRAWN BY:

JUNE 2020 AS SHOWN WATER PIPING DIAGRAM - LABORATORY M-905 NUMBER:



WATER PIPING DIAGRAM - ULTRASOUND SCALE: NONE



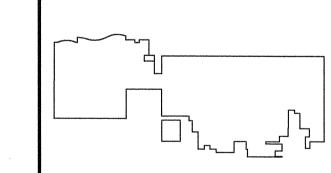


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79-1019 HAUKAPILA STREET KEALAKEKUA, HAWAII 96750

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NO.	REVISION	DATE



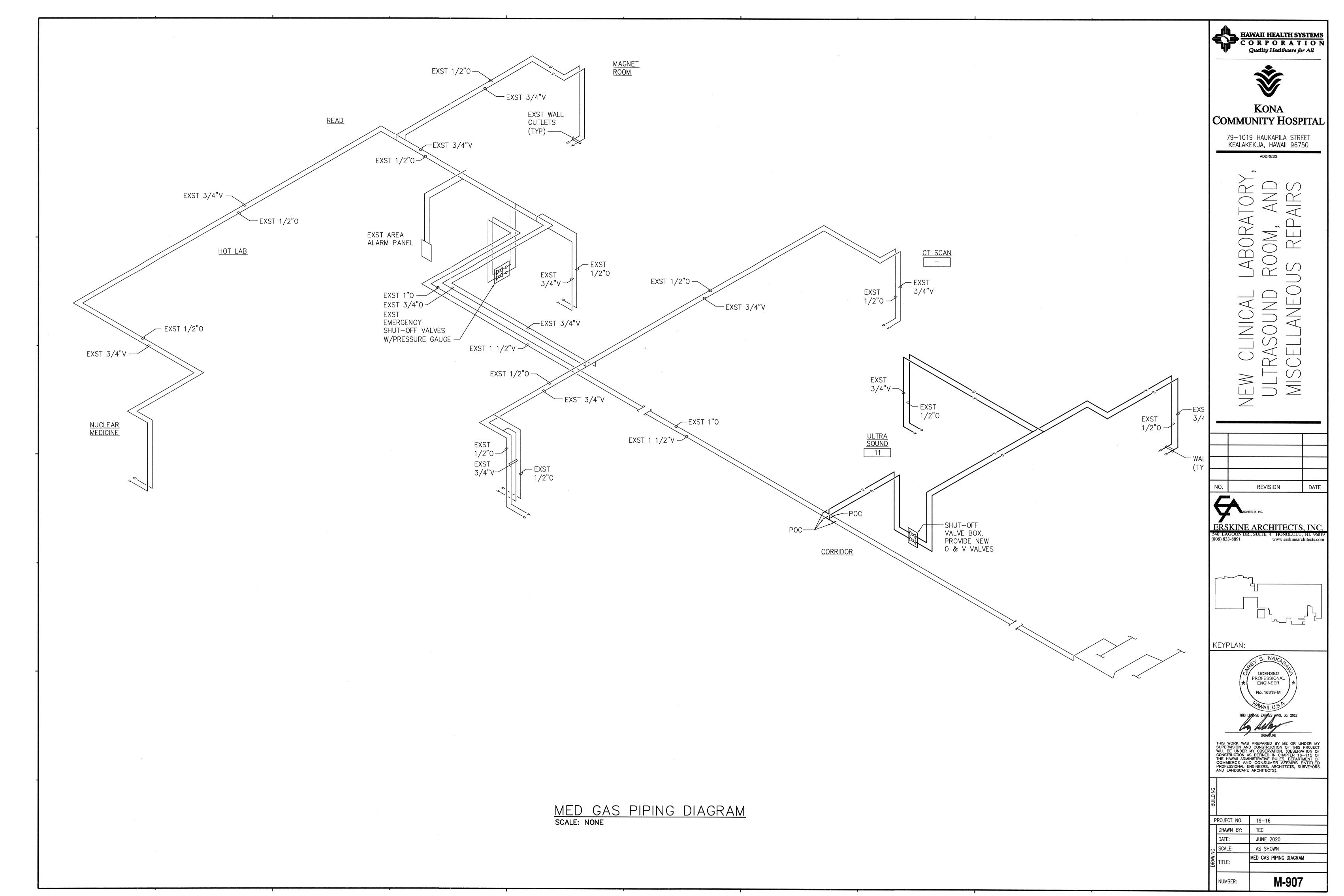


KEYPLAN:



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	NUMBER:	M-906
,	IIILL.	- ULTRASOUND
<b>DRAWING</b>	TITLE:	WATER PIPING DIAGRAM
Ş	SCALE:	AS SHOWN
	DATE:	JUNE 2020
	DRAWN BY:	TEC
Р	ROJECT NO.	19–16
BUIL		



Kona Community Hospital Relocate Lab\Drawings\Running Set\PERMIT\M907 MED GAS PIPING DIAGRAM.dwg, 5/29/2020 3:49:25 PM, \\DC2\Q

## FIRE SAFETY NOTES

- FIRE SAFETY DURING CONSTRUCTION, ALTERATION OR DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 16, 2012 NFPA 1, AS AMENDED
- WHERE BUILDING ALTERATIONS REQUIRED MODIFICATIONS OF EXISTING FIRE SUPPRESSION SYSTEMS, THE CONTRACTOR SHALL IMPAIR ONLY SECTIONS OF THE SYSTEM WHERE THE WORK IS INVOLVED AND THE REMAINDER OF THE SYSTEM SHALL BE KEPT IN SERVICE. PRIOR TO IMPAIRING THE WATER SUPPLY TO ANY FIRE SUPPRESSION SYSTEM. THE CONTRACTOR SHALL COMPLY WITH ALL PROVISION OF NFPA 1. 2012, CHAPTER 16.
- 3. WHERE THE BUILDING IS PROTECTED BY FIRE PROTECTION SYSTEMS, SUCH SYSTEMS SHALL BE MAINTAINED OPERATIONAL AT ALL TIMES DURING ALTERATION.
- 4. WHERE ALTERATION REQUIRES MODIFICATION OF A PORTION OF THE FIRE PROTECTION SYSTEM, THE REMAINDER OF THE SYSTEM SHALL BE KEPT IN SERVICE AND THE FIRE DEPARTMENT SHALL BE NOTIFIED.
- WHEN IT IS NECESSARY TO SHUT DOWN THE SYSTEM, THE AHJ SHALL HAVE THE AUTHORITY TO ENFORCE ALTERNATE MEASURES OF PROTECTION UNTIL THE SYSTEM IS RETURNED TO SERVICE.
- AS NECESSARY DURING EMERGENCIES, MAINTENANCE DRILLS, PRESCRIBED TESTING, ALTERATIONS, OR RENOVATIONS. PORTABLE OR FIXED FIRE-EXTINGUISHING SYSTEMS OR DEVICES OR ANY FIRE-WARNING SYSTEM SHALL BE PERMITTED TO BE MADE INOPERABLE OR INACCESSIBLE. A FIRE WATCH SHALL BE REQUIRED AS SPECIFIED IN NFPA 1, AS AMENDED, AT NO COST TO THE AHJ AND OWNER.
- STRUCTURES UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION OPERATIONS INCLUDING THOSE IN UNDERGROUND LOCATIONS, SHALL COMPLY WITH NFPA 241, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS, AND CHAPTER 16, 2012 PER NFPA 1, AS AMENDED.
- THE AHJ SHALL HAVE THE AUTHORITY TO REQUIRE THAT CONSTRUCTION DOCUMENTS FOR FIRE PROTECTION SYSTEMS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL AND A PERMIT BE ISSUED PRIOR TO THE INSTALLATION, REHABILITATION, OR MODIFICATION. FURTHER, THE AHJ SHALL HAVE THE AUTHORITY TO REQUIRE THAT ACCEPTANCE TESTS OF THE SYSTEMS BE PERFORMED IN THE AHJ'S PRESENCE PRIOR TO FINAL SYSTEM CERTIFICATION.
- FIRE ALARM SYSTEMS, FIRE HYDRANT SYSTEMS, FIRE-EXTINGUISHERS, STANDPIPES, AND OTHER FIRE PROTECTION SYSTEMS AND APPURTENANCES REQUIRED BY THIS CODE SHALL BE APPROVED BY THE AHJ AS TO INSTALLATION AND LOCATION AND SHALL BE SUBJECT TO ACCEPTANCE TESTS REQUIRED BY THE APPROPRIATE COUNTY AGENCY. A COPY OF A SYSTEM'S UNSATISFACTORY INSPECTION AND MAINTENANCE TEST REPORT SHALL BE SUBMITTED TO THE AHJ BY TESTING COMPANY WITHIN (5) WORKING DAYS AFTER THE COMPLETION OF THE TEST, NFPA 1, CHAPTER 13 AS AMENDED.

## FIRE PROTECTION GENERAL NOTES

- FIRE PROTECTION SYSTEM DESIGN, INSTALLATION, MATERIALS, AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE 2006 INTERNATIONAL BUILDING CODE, AS AMENDED. FIRE PROTECTION SYSTEM TESTING SHALL BE IN ACCORDANCE WITH THE 2012 NFPA 1 UNIFORM FIRE CODE, AS AMENDED.
- PROVIDE APPROVED FIRESTOPPING MATERIALS FOR PIPE PENETRATIONS THROUGH FIRE RATED WALLS. PARTITIONS, AND FLOOR-CEILING ASSEMBLIES. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF RATED WALLS, PARTITIONS, AND FLOOR-CEILING ASSEMBLIES.
- 3. SEE ARCHITECTURAL DRAWINGS FOR LIMITS OF WORK AND CONSTRUCTION PHASING.

# FIRE SPRINKLER NOTES

- 1. DEVICES AND EQUIPMENT SHALL BE UL LISTED OR FM APPROVED.
- 2. AUTOMATIC WET PIPE SPRINKLER PROTECTION SHALL BE PROVIDED THROUGHOUT THE INDICATED AREAS AS REQUIRED TO PROVIDE 100% COVERAGE.
- 3. THE SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13 AND AS FOLLOWS:
  - ALL AREAS EXCEPT THOSE LISTED BELOW: LAB 1, LAB 2, OPEN LAB

OCCUPANCY CLASSIFICATION: SPRINKLER FINISH: SPRINKLER K-FACTOR: SPRINKLER TEMPERATURE RATING: LIGHT HAZARD CHROME K = 5.6

155 DEGREES F

SPRINKLER TYPE: QUICK RESPONSE CONCEALED PENDENT

WITH WHITE COVER PLATE

PROVIDE PENDENT FIRE SPRINKLER WITH ADJUSTABLE ESCUTCHEONS IN AREAS WITH SURFACE MOUNTED LIGHT FIXTURES.

LAB 1, LAB 2, OPEN LAB:

OCCUPANCY CLASSIFICATION: SPRINKLER FINISH: SPRINKLER K-FACTOR:

ORDINARY HAZARD GROUP 1 CHROME

K = 5.6155 DEGREES F

SPRINKLER TEMPERATURE RATING: SPRINKLER TYPE: QUICK RESPONSE CONCEALED PENDENT WITH WHITE COVER PLATE

PROVIDE PENDENT FIRE SPRINKLER WITH ADJUSTABLE ESCUTCHEONS IN AREAS WITH SURFACE MOUNTED LIGHT FIXTURES.

# FIRE SPRINKLER NOTES (CONT.)

4. WATER SUPPLY INFORMATION: DATA OBTAINED FROM HYDRANT FLOW TEST ON 02/28/2020 FOR PRIVATE FIRE HYDRANT NEAR SOUTH LOADING DOCK OF KONA COMMUNITY HOSPITAL.

20 PSI

856 GPM

STATIC PRESSURE: **RESIDUAL PRESSURE:** FLOW AT RESIDUAL PRESSURE:

- 5. PROVIDE NEW MATERIALS AND EQUIPMENT. CONTRACTOR SHALL NOT RE-USE EXISTING SPRINKLER HEADS, PIPING, FITTINGS, ETC. FLEXIBLE FIRE SPRINKLER PIPE DROPS AND BRACKET ASSEMBLIES THAT ARE DISCONNECTED TO ACCOMMODATE CEILING TILE REMOVAL ARE PERMITTED TO BE REUSED. ANY DROPS OR BRACKETS FOUND TO BE DAMAGED SHALL BE REPLACED.
- 6. SPRINKLER PIPING SHALL COMPLY WITH NFPA 13 EXCEPT THAT PLASTIC PIPE AND COPPER TUBING SHALL NOT BE PERMITTED. PIPING SHALL BE STEEL. PIPE SIZES LESS THAN 2-1/2 INCHES SHALL BE SCHEDULE 40 STEEL. PIPE SIZES 2-1/2 INCHES AND LARGER SHALL BE SCHEDULE 10 OR 40 STEEL.
- 7. PROVIDE NEW SWAY BRACING ON ALL NEW AND EXISTING FIRE SPRINKLER RISERS, MAINS, AND BRANCH LINES 2-1/2 INCHES AND LARGER WITHIN THE AREA OF WORK IN ACCORDANCE WITH NFPA 13 AND ASCE/SEI 7.
- PROVIDE NEW BRANCH LINE RESTRAINTS FOR NEW AND EXISTING PIPING WITHIN AREA OF WORK IN ACCORDANCE WITH NFPA 13 AND ASCE/SEI 7.
- SPRINKLER PIPING IN FINISHED AREAS SHALL BE CONCEALED FROM VIEW.
- 10. SPRINKLER AND PIPING LAYOUTS ARE CONCEPTUAL. THE CONTRACTOR SHALL VERIFY THE QUANTITY AND ARRANGEMENT OF SPRINKLERS. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE LOCATION OF SPRINKLER COMPONENTS RELATIVE TO PARTITIONS, SOFFITS, LIGHT FIXTURES, MECHANICAL DUCTWORK. STRUCTURAL MEMBERS, ARCHITECTURAL FEATURES, ETC., AND COORDINATE WITH THE VARIOUS TRADES.
- 11. PROVIDE APPROVED FIRESTOPPING MATERIAL IN PIPE PENETRATIONS THROUGH FIRE RATED WALLS AND FLOOR/CEILING ASSEMBLIES.
- 12. PROPER TYPES OF SPARE SPRINKLERS, STOPPERS, AND WRENCHES SHALL BE PROVIDED AND STORED IN A CABINET AT THE RISER AS FOLLOWS:
  - A. SPRINKLERS:

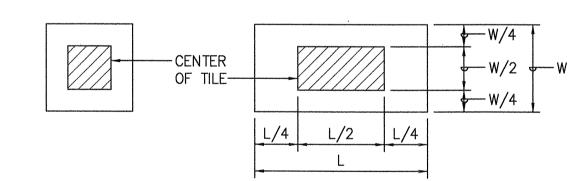
LESS THAN 300 SPRINKLERS 300 TO 1000 SPRINKLERS MORE THAN 1000 SPRINKLERS

MINIMUM 6 SPARE SPRINKLERS MINIMUM 12 SPARE SPRINKLERS MINIMUM 24 SPARE SPRINKLERS

- B. THREE (3) SPRINKLER STOPPERS
- C. ONE (1) SPRINKLER WRENCH

THE STOCK OF SPARE SPRINKLERS. STOPPERS AND WRENCHES SHALL INCLUDE TYPES. RATINGS AND SIZES INSTALLED IN THE SYSTEM.

13. FIRE SPRINKLERS SHALL BE PLACED APPROXIMATELY IN THE CENTER OF TILE UNLESS OTHERWISE INDICATED ON THE DRAWINGS. THE CENTER SHALL MEAN WITHIN THE CENTER 50% OF THE TILE AS



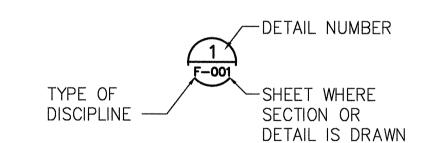
- 14. PROVIDE IN-SERVICE TESTING OF NEW AND EXISTING PIPING IN ACCORDANCE WITH NFPA 13.
- 15. FIRE SPRINKLER PIPING SHALL NOT BE ROUTED BELOW AIR HANDLING UNITS OR OBSTRUCT MAINTENANCE ACCESS. FIRE SPRINKLER PIPING NEAR ELECTRICAL EQUIPMENT SHALL BE LOCATED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- 16. EXISTING FIRE SPRINKLER IS SUPERVISED BY THE EXISTING FIRE ALARM SYSTEM IN ACCORDANCE WITH 2006 IBC SECTION 903.4. NEW PRESSURE SWITCH AND VALVE TAMPER SWITCH SHALL BE CONNECTED TO THE EXISTING FIRE ALARM SYSTEM IN ACCORDANCE WITH IBC 2006, CHAPTER 9 AS AMENDED.
- 17. THE EXISTING WATER METER IS ADEQUATE TO SERVICE THE AUTOMATIC FIRE SPRINKLER SYSTEM. INCLUSIVE OF THIS PROJECT'S SCOPE OF WORK.

## FIRE EXTINGUISHER NOTES

- 1. INSTALL FIRE EXTINGUISHERS AND CABINETS IN ACCORDANCE WITH NFPA 10 AND NFPA 1 UNIFORM FIRE CODE.
- 2. FIRE EXTINGUISHERS SHALL BE PROVIDED IN THE AREA OF WORK TO PROVIDE 100% COVERAGE.

SYMBOLS ABBREVIATIONS DESCRIPTION			
	AFF	ABOVE FINISHED FLOOR	
	EXST	EXST	
FDC	FDC	FIRE DEPARTMENT CONNECTION, EXST	
7		FIRE DEPARTMENT CONNECTION, CHECK VALVE, EXST	
•		FIRE SPRINKLER, CONCEALED PENDENT, QUICK RESPONSE, NEW	
0		FIRE SPRINKLER, UPRIGHT, QUICK RESPONSE, EXST	
		FIRE SPRINKLER SYSTEM, OS&Y GATE VALVE, EXST	
	FS	FIRE SPRINKLER SYSTEM, PIPING, EXST	
	FS	FIRE SPRINKLER SYSTEM, PIPING, EXST	
PS		FIRE SPRINKLER SYSTEM, PRESSURE SWITCH, EXST	
	FSR	FIRE SPRINKLER SYSTEM, RISER, EXST	
TS	FIRE SPRINKLER SYSTEM, TAMPER SWITCH, EXST		
		MATERIALS TO BE DEMOLISHED	
	NO/NC	NORMALLY OPEN/NORMALLY CLOSE	
marrian mana		PIPE CAP	
>_		PIPE ELBOW DOWN	
-11		PIPE PLUG	
J	CONT	PIPE CONTINUATION	
	UP/DN	PIPE UP/DOWN	
		PIPE TEE DOWN	
	POC	POINT OF CONNECTION	
	TYP	TYPICAL	
Wx		WATER LINE WITH SIZE DESIGNATION, EXST	

# SYMBOL LEGEND:



SECTION AND DETAIL SYMBOL

1.00



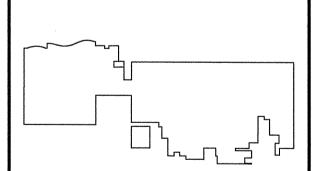


79-1019 HAUKAPILA STREET KEALAKEKUA, HAWAII 96750

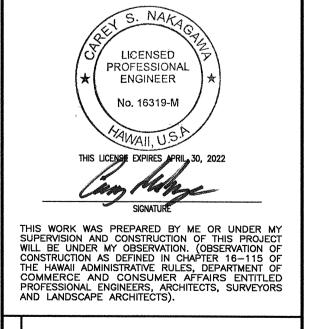
 $\overline{\forall}$ \_ \_ S R  $\Box$  $\triangleleft$  $\triangleleft$  $\triangleleft$  $\bigcirc$  $\sum_{i=1}^{n} a_i$ 

NO.	REVISION	DATE
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ERSKINE ARCHITECTS, INC 540 LAGOON DR., SUITE 4 HONOLULU, HL 968



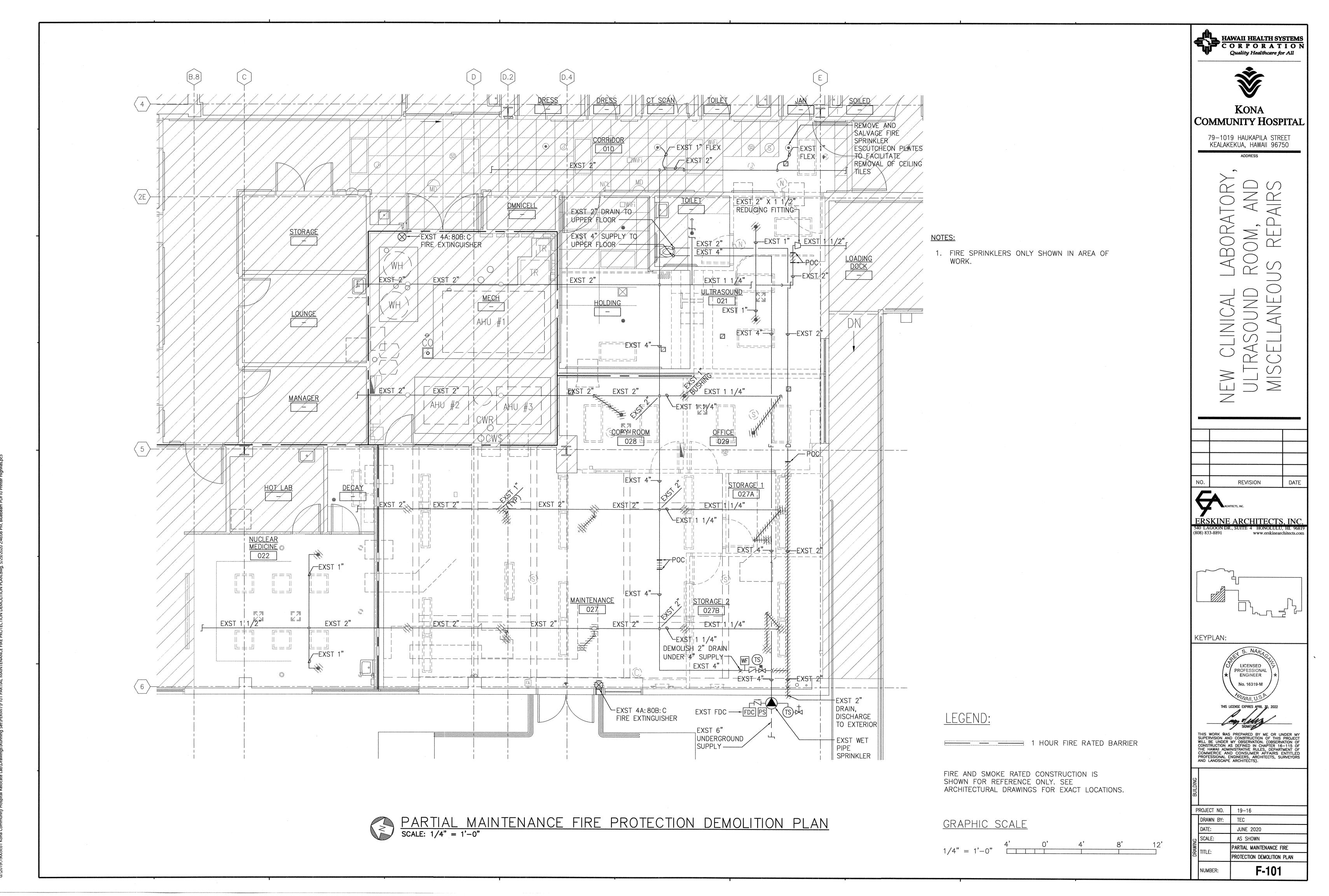
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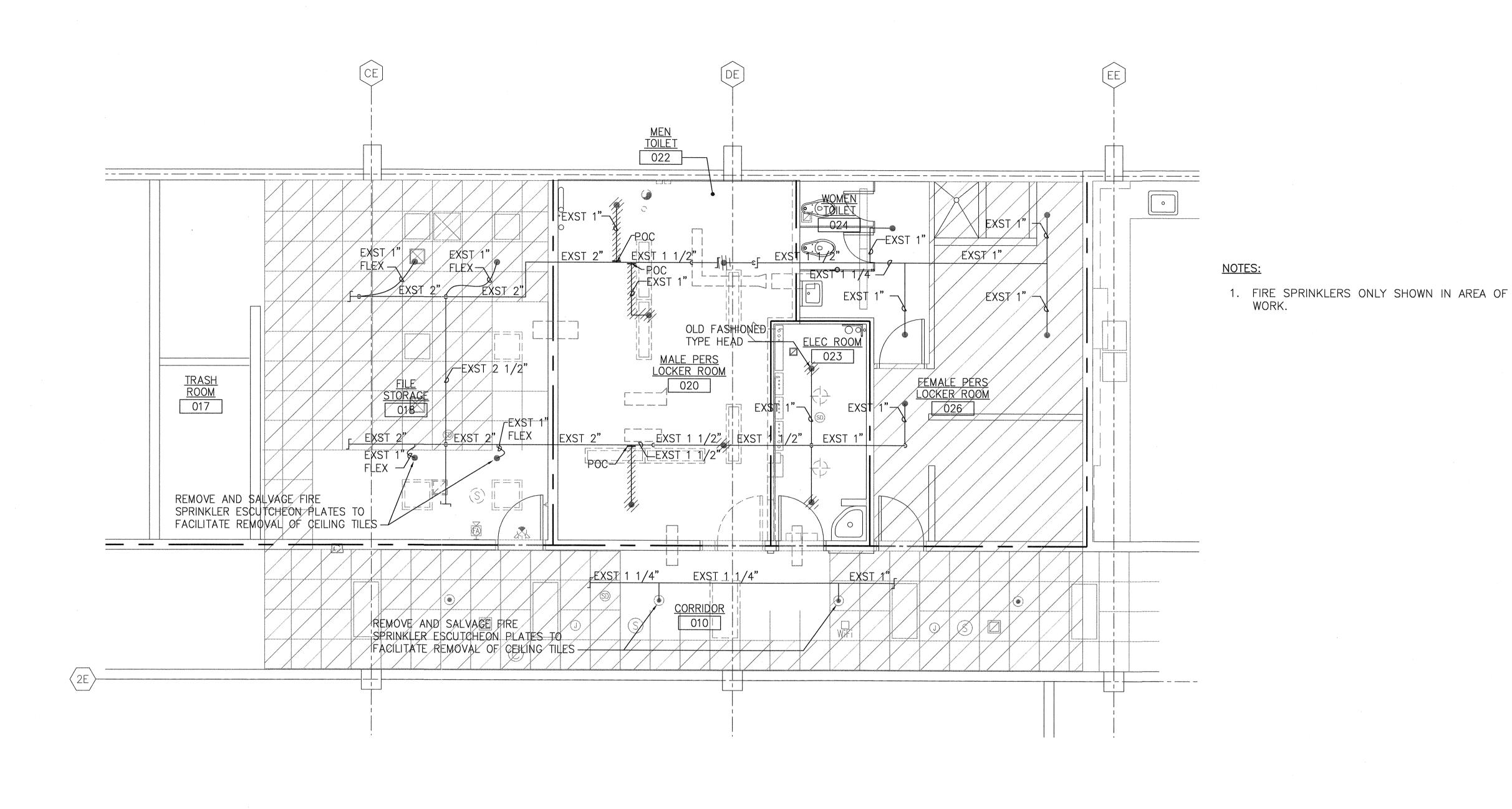


PROJECT NO. 19-16 DRAWN BY: JUNE 2020 AS SHOWN SCALE: FIRE PROTECTION NOTES, LEGEND, AND ABBREVIATIONS

NUMBER:

F-001









COMMUNITY HOSPITAL
79–1019 HAUKAPILA STREET

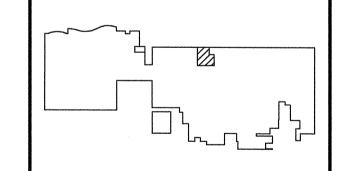
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INICAL LABORATORY SOUND ROOM, AND

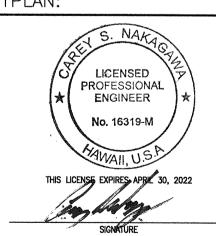
		Martin Harman Martin Grand
		***************************************
NO.	REVISION	DATE
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KEYPLAN:



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF CONSTRUCTION AS DEFINED IN CHAPTER 16-115 OF THE HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS ENTITLED PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS).

PROJECT NO. 19–16

DRAWN BY: TEC

DATE: JUNE 2020

DRAWN BY: TEC
DATE: JUNE 2020
SCALE: AS SHOWN
TITLE: PROTECTION PLAN

NUMBER:

F-102

MENS LOCKER DEMOLITION
FIRE PROTECTION PLAN
SCALE: 1/4" = 1'-0"

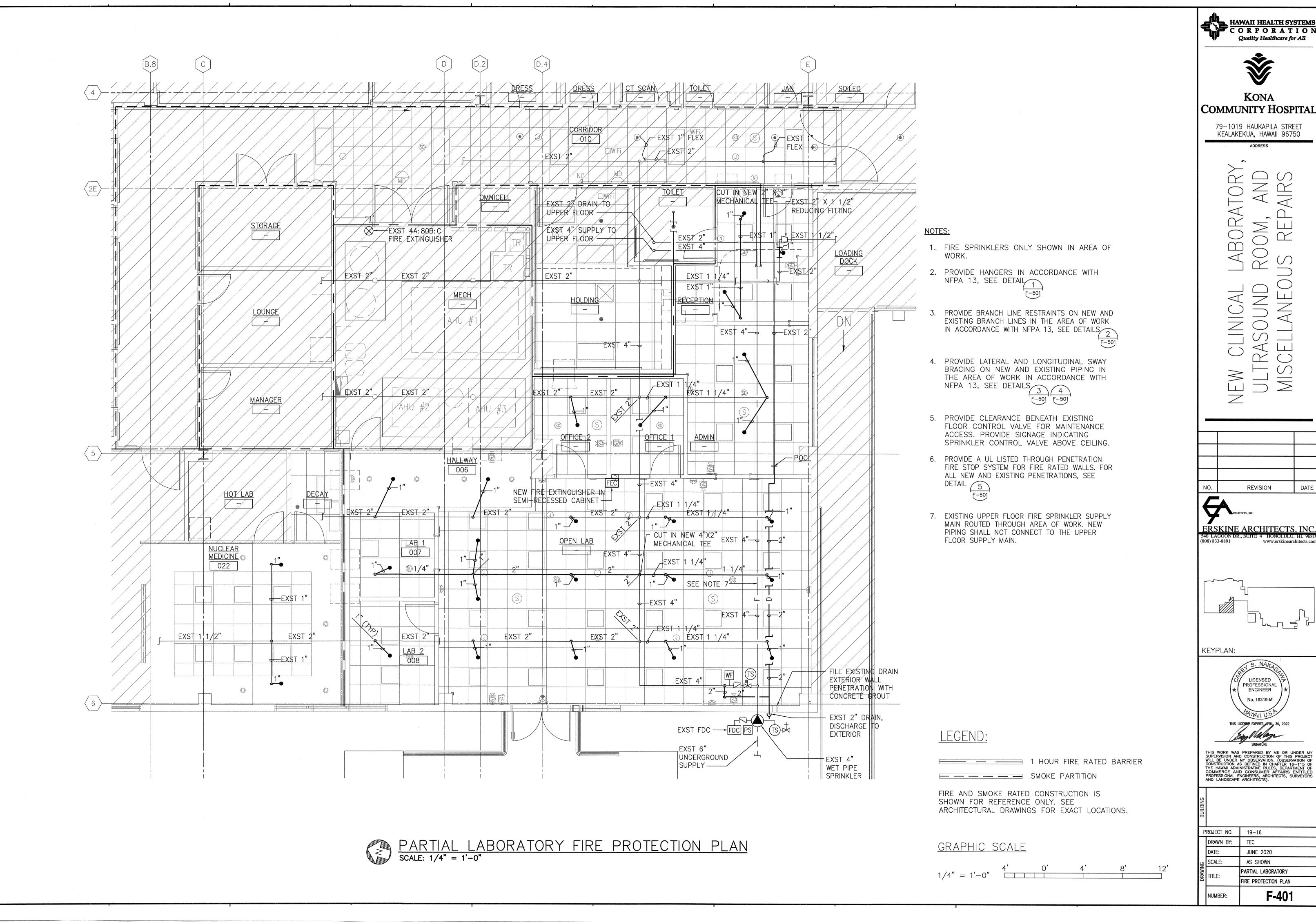
LEGEND:

1 HOUR FIRE RATED BARRIER

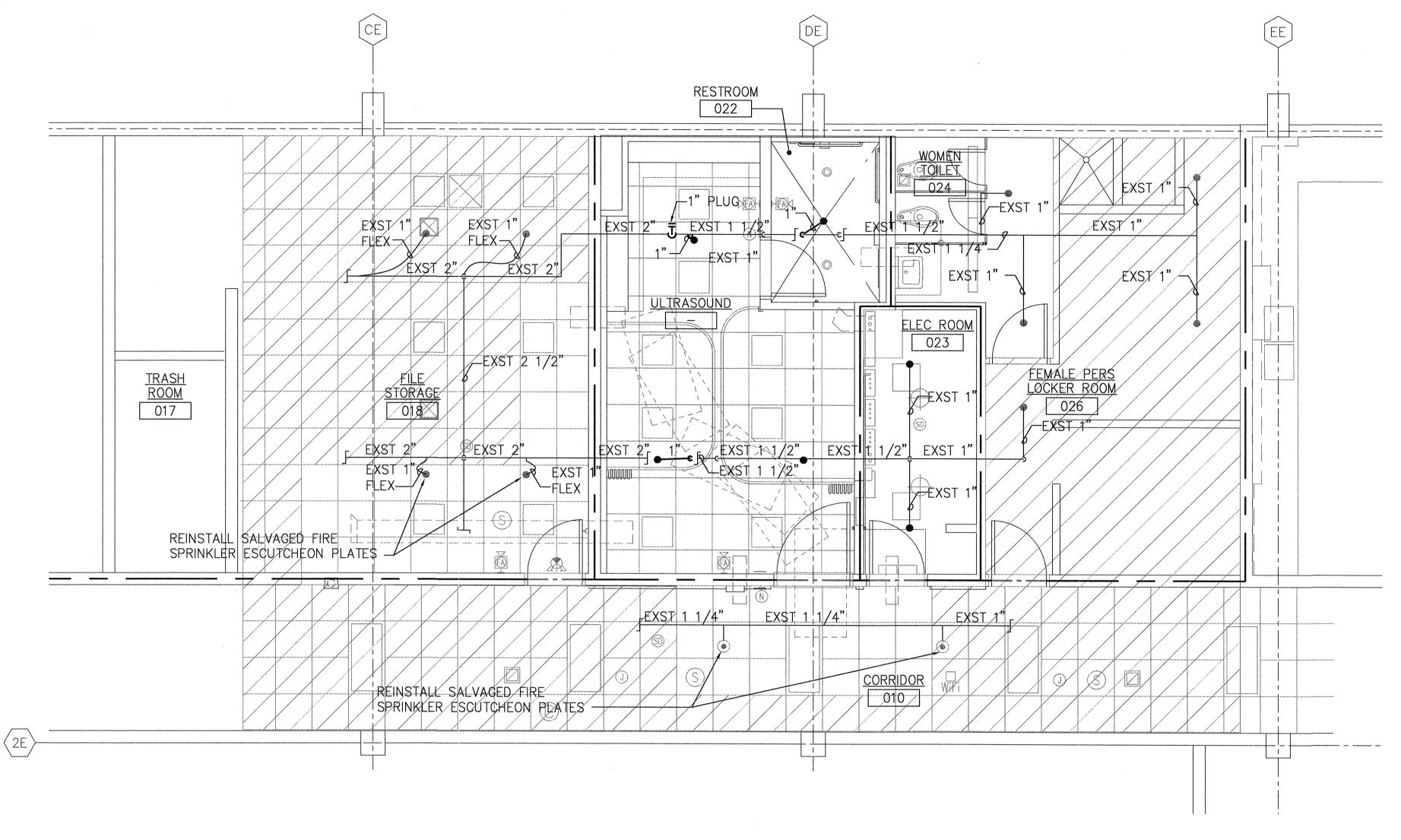
FIRE AND SMOKE RATED CONSTRUCTION IS SHOWN FOR REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.

<u>GRAPHIC SCALE</u>

1/4" = 1'-0" 4' 8'



G:\2019\19003co1 Kona Community Hospital Relocate Lab\Drawings\Running Set\PERMIT\F401 PARTIAL LABORATORY FIRE PROTECTION PLAN.dwg, 5/29/2020 2:46:21 PM, Bluebeam PDF10 Printer HighRes.pc3



#### NOTES:

- 1. FIRE SPRINKLERS ONLY SHOWN IN AREA OF WORK.
- 2. PROVIDE HANGERS IN ACCORDANCE WITH NFPA 13, SEE DETAIL 1
- 3. PROVIDE BRANCH LINE RESTRAINTS ON NEW AND EXISTING BRANCH LINES IN THE AREA OF WORK IN ACCORDANCE WITH NFPA 13, SEE DETAILS
- 4. PROVIDE LATERAL AND LONGITUDINAL SWAY BRACING ON NEW AND EXISTING PIPING IN THE AREA OF WORK ...

  NFPA 13, SEE DETAILS

  3

  4

  F-501 THE AREA OF WORK IN ACCORDANCE WITH F-501 F-501
- PROVIDE A UL LISTED THROUGH PENETRATION FIRE STOP SYSTEM FOR FIRE RATED WALLS. FOR ALL NEW AND EXISTING PENETRATIONS, SEE DETAIL 5 F-501

<u>ULTRASOUND</u> FIRE PROTECTION PLAN
SCALE: 1/4" = 1'-0"

# LEGEND:

1 HOUR FIRE RATED BARRIER

FIRE AND SMOKE RATED CONSTRUCTION IS SHOWN FOR REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.

### <u>GRAPHIC SCALE</u>

1/4" = 1'-0" 4' 8' 12'

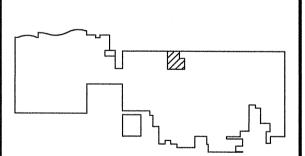
HAWAII HEALTH SYSTEMS
C O R P O R A T I O N
Quality Healthcare for All



79-1019 HAUKAPILA STREET KEALAKEKUA, HAWAII 96750

NO.	REVISION	DATE
		***************************************

RCHITECTS, INC.
ERSKINE ARCHITECTS, INC.
540 LAGOON DR., SUITE 4 HONOLULU, HI. 96819 (808) 833-8891 www.erskinearchitects.com







SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF CONSTRUCTION AS DEFINED IN CHAPTER 16-115 OF THE HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS ENTITLED PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCARE APPENDED.

		AND BANDSOALE AROUNTEDTS).		
	BUILDING			
	PROJECT NO.		19–16	
		DRAWN BY:	TEC	
		DATE:	JUNE 2020	
	S	SCALE:	AS SHOWN	

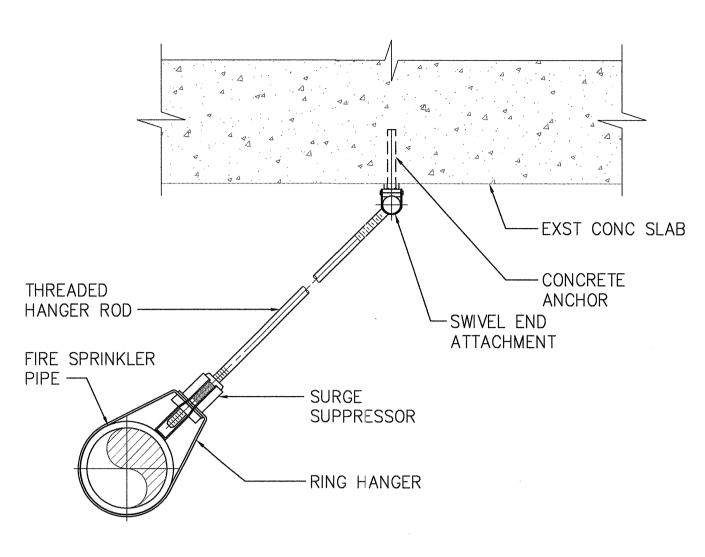
PROTECTION PLAN F-402 NUMBER:

### NOTES:

- 1. HANGER COMPONENTS, SIZING, AND SPACING SHALL BE IN ACCORDANCE WITH NFPA 13.
- CONCRETE ANCHORS SHALL AVOID TENDONS, ANCHORAGES, AND/OR REINFORCEMENT AND SHALL NOT SPALL CONCRETE.







#### NOTES:

-PROVIDE FIRESTOPPING

CAULK IN FIRE RATED

WATERPROOF CEMENT IN

NON-FIRE RATED WALLS

WALLS OR PLASTIC

(TYP)

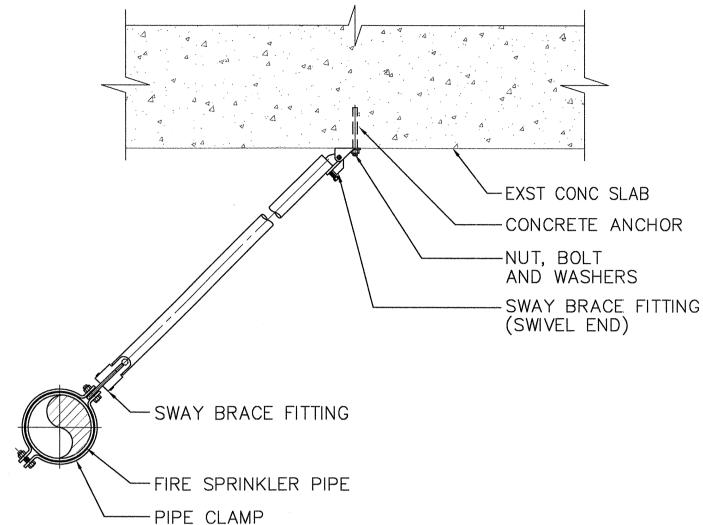
**G** PIPE OR / CONDUIT

WALL ASSEMBLY

GYPSUM BOARD)

(CONCRETE, CMU, OR

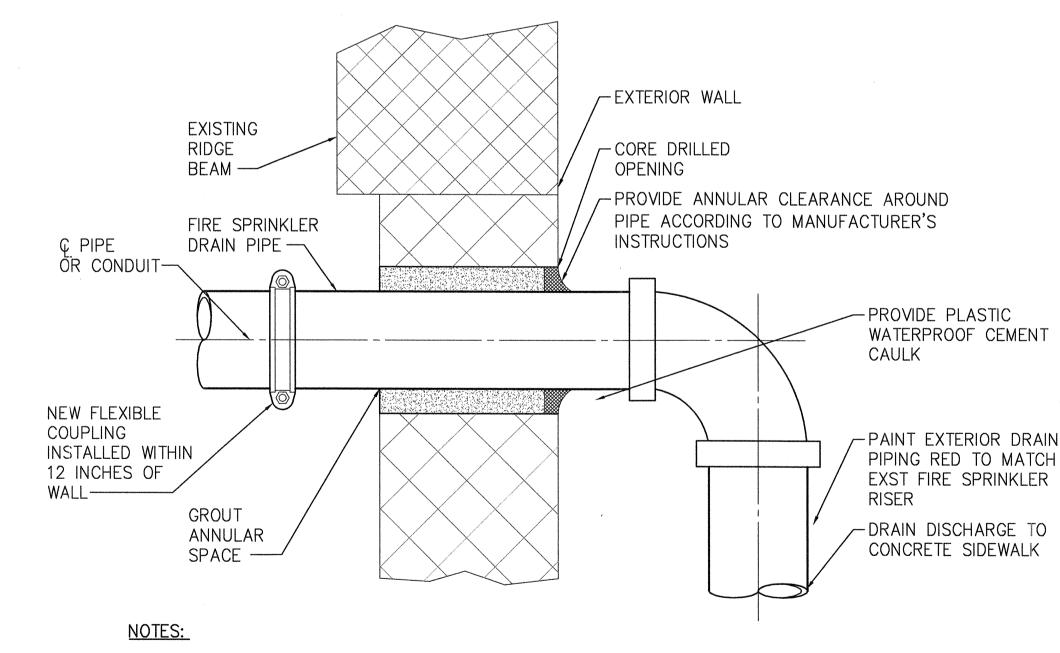
- BRANCH LINE RESTRAINT COMPONENTS, SIZING, AND SPACING SHALL BE IN ACCORDANCE WITH NFPA 13.
- 2. CONCRETE ANCHORS SHALL AVOID TENDONS, ANCHORAGES, AND/OR REINFORCEMENT AND SHALL NOT SPALL CONCRETE.



#### NOTES:

- 1. SWAY BRACING COMPONENTS, SIZING, AND SPACING SHALL BE IN ACCORDANCE WITH NFPA 13.
- 2. CONCRETE ANCHORS SHALL AVOID TENDONS, ANCHORAGES, AND/OR REINFORCEMENT AND SHALL NOT SPALL CONCRETE.
- 3. SWAY BRACING CALCULATIONS SHALL UTILIZE MINIMUM SEISMIC COEFFICIENT VALUE (Cp) OF 1.07 BASED ON A SPECTRAL RESPONSE (Ss) OF 2.31 PER NFPA 13 (2013) TABLE 9.3.5.9.3 AND PARAGRAPH 9.3.5.9.3.2





#### NOTES:

STEEL

SLEEVE, AS

SYSTEM -

REQUIRED BY

UL FIRE STOP

MINERAL WOOL

(TYP) ---

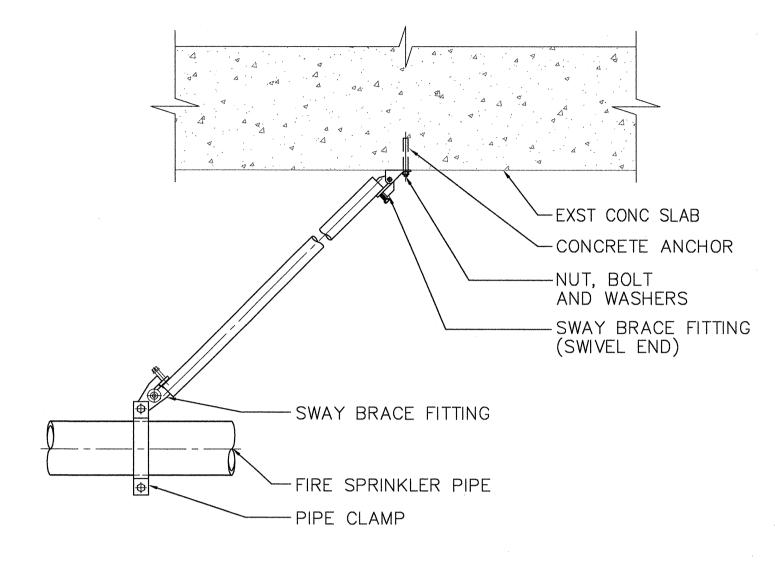
BATT INSULATION

- 1. CONTRACTOR SHALL PROVIDE A UL LISTED THROUGH PENETRATION FIRE STOP SYSTEM FOR FIRE RATED WALLS.
- 2. PROVIDE SPRINKLER PIPE CLEARANCES IN ACCORDANCE WITH NFPA 13.
- 3. PROVIDE 2 INCH CLEARANCE AROUND WALL PENETRATION FOR PIPE SIZES LESS THAN 4 INCHES AND 4 INCH CLEARANCE FOR PIPE SIZES 4 INCHES AND LARGER IN ACCORDANCE WITH NFPA 13, UNLESS FLEXIBLE COUPLINGS ARE INSTALLED WITHIN 12 INCHES OF EACH SIDE OF THE WALL.
- TYPICAL PIPE AND CONDUIT F501 THRU WALL DETAIL SCALE: NONE

#### CONTRACTOR SHALL PROVIDE A UL LISTED THROUGH PENETRATION FIRE STOP SYSTEM OR BUILDING CODE EQUIVALENT FOR FIRE RATED BARRIERS. WHERE REQUIRED.

2. PROVIDE SPRINKLER PIPE CLEARANCES IN ACCORDANCE WITH NFPA 13.

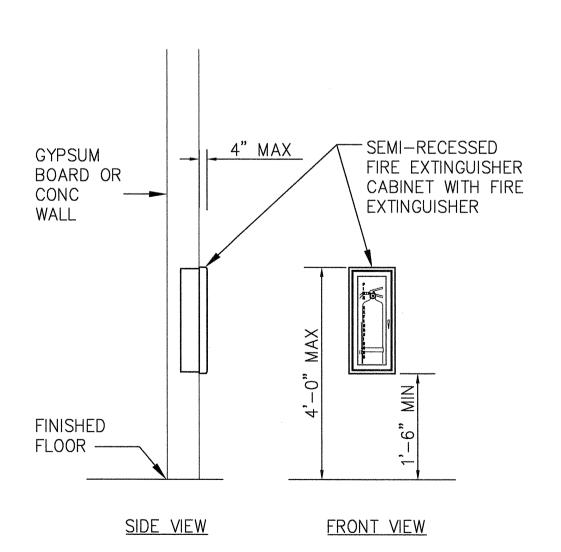




#### NOTES:

- SWAY BRACING COMPONENTS, SIZING, AND SPACING SHALL BE IN ACCORDANCE WITH NFPA 13.
- CONCRETE ANCHORS SHALL AVOID TENDONS, ANCHORAGES, AND/OR REINFORCEMENT AND SHALL NOT SPALL CONCRETE.
- SWAY BRACING CALCULATIONS SHALL UTILIZE MINIMUM SEISMIC COEFFICIENT VALUE (Cp) OF 1.07 BASED ON A SPECTRAL RESPONSE (Ss) OF 2.31 PER NFPA 13 (2013) TABLE 9.3.5.9.3 AND PARAGRAPH 9.3.5.9.3.2







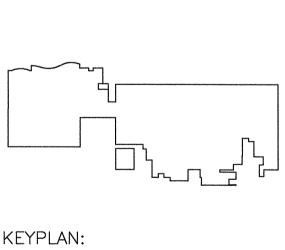




79-1019 HAUKAPILA STREET KEALAKEKUA, HAWAII 96750

**COMMUNITY HOSPITAL** 

REVISION RCHITECTS, INC. ERSKINE ARCHITECTS, INC



LICENSED PROFESSIONAL **ENGINEER** No. 16319-M THIS LICENSE EXPIRES APRIL 30, 202

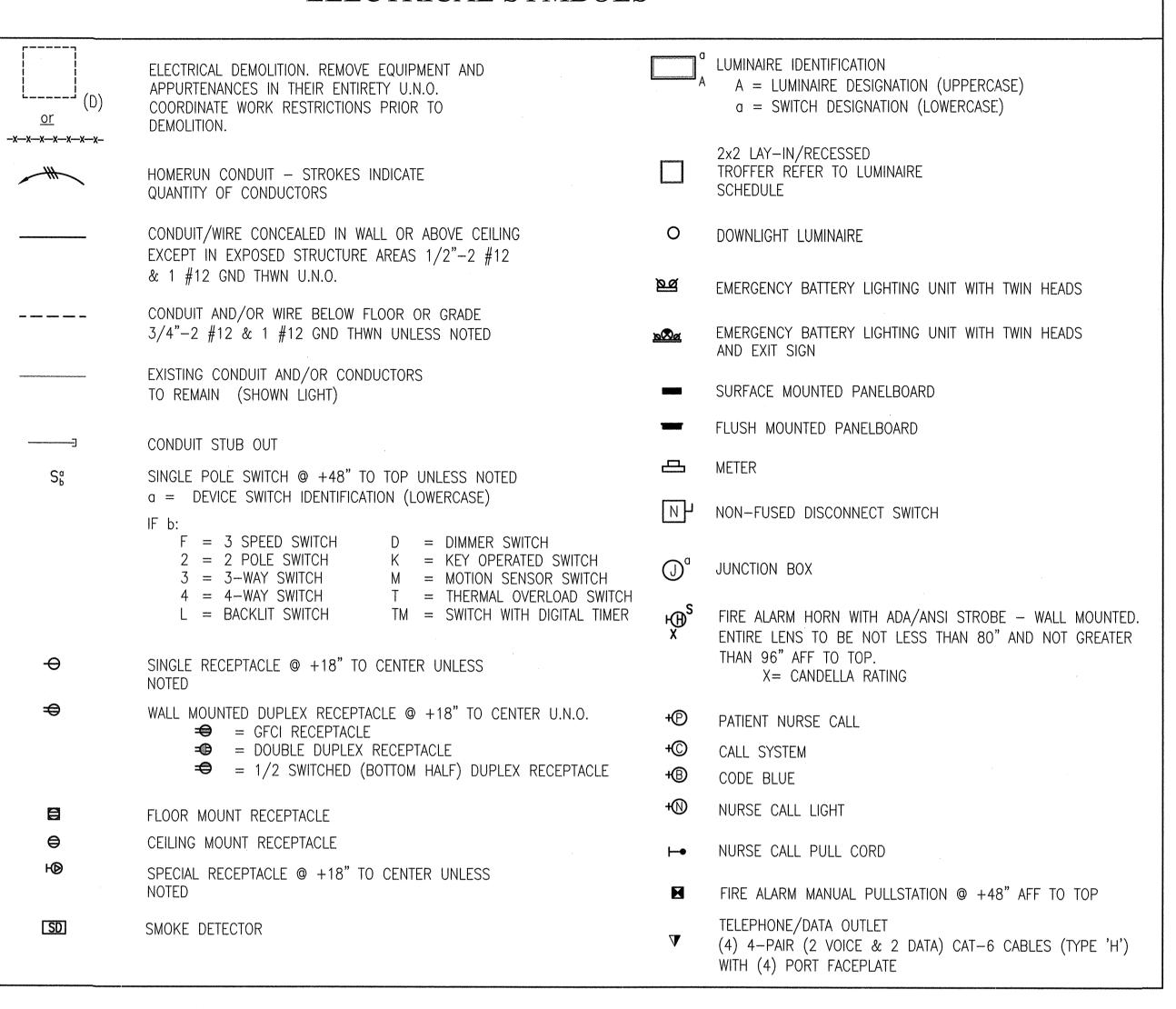
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF CONSTRUCTION AS DEFINED IN CHAPTER 16—115 OF THE HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS ENTITLED PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS).

PROJECT NO. 19-16 DRAWN BY: TEC JUNE 2020 AS SHOWN FIRE PROTECTION DETAILS F-501 NUMBER:

## GENERAL ELECTRICAL **SPECIFICATIONS**

- 1. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK.
- 2. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE. INSTALL CONDUIT RUNS AS SPECIFIED WITH SCHEMATIC REPRESENTATION INDICATED ON THE DRAWINGS AND AS SPECIFIED.
- WHERE CONDUITS ARE SHOWN AS "HOME RUNS" ON THE CONTRACT DRAWINGS. OR STATED TO BE FURNISHED, BUT NOT EXPLICITLY SHOWN AS PART OF THE SCOPE OF WORK, THE CONTRACTOR SHALL PROVIDE ALL CONDUITS, FITTINGS, BOXES, WIRING, CONDUIT SEALS, ETC., AS REQUIRED FOR COMPLETION OF THE RACEWAY SYSTEM IN COMPLIANCE WITH THE NEC AND THE CONTRACT
- MODIFY CONDUIT RUNS TO SUIT FIELD CONDITIONS, AS ACCEPTED BY WHFD AND OR PROJECT
- FINAL CONNECTIONS & ROUGH-IN REQUIREMENTS TO EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY
- CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL AND OTHER DRAWINGS PRIOR TO BID.
- CONTRACTOR SHALL VISIT SITE PRIOR TO BID AND VERIFY THAT CONDITIONS ARE AS INDICATED. CONTRACTOR SHALL REPORT DISCREPANCIES TO THE ARCHITECT AND INCLUDE IN ITS BID ALL COSTS REQUIRED TO MAKE HIS WORK MEET EXISTING CONDITIONS.
- 8. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE WHFD AND/ OR PROJECT MANAGER.
- 9. WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE AND NATIONAL CODES AND ORDINANCES.
- 10. ALL ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LABELED BY U.L. OR OTHER RECOGNIZED TESTING FACILITY.
- 11. PROVIDE PERMITS AND INSPECTIONS REQUIRED.
- 12. GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER WHFD AND/ OR PROJECT MANAGER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO WHFD AND/ OR PROJECT MANAGER.
- 13. PROVIDE RECORD DRAWINGS TO THE WHFD AND/ OR PROJECT MANAGER. DRAWINGS SHALL INCLUDE ALL ADDENDUM ITEMS. CHANGE ORDERS. ALTERATIONS. REROUTINGS. ETC.
- 14. VERIFY EXACT LOCATION AND ELECTRICAL CHARACTERISTICS OF EQUIPMENT TO BE FURNISHED BY OTHER DISCIPLINES PRIOR TO ROUGH-IN.
- 15. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE. CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO WHFD AND/ OR PROJECT
- 16. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS SECTION OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SECTION.
- 17. CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS OR EQUIPMENT.
- 18. SYSTEMS SHALL BE COMPLETE, OPERABLE AND READY FOR CONTINUOUS OPERATION. LIGHTS. SWITCHES, RECEPTACLES, MOTORS, ETC., SHALL BE CONNECTED AND OPERABLE.
- 19. PRESENT SUBMITTAL DATA AT ONE TIME BOUND IN PDF FORMAT OR PER WHFD AND/OR PROJECT MANAGER'S REQUIREMENTS. SUBMITTALS SHALL BE INDEXED IN A NEAT AND ORDERLY MANNER. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED. SUBMITTALS SHALL INCLUDE ALL EQUIPMENT SPECIFIED UNDER THIS PROJECT. SHOULD CONTRACTOR FAIL TO PROVIDE SUBMITTALS, CONTRACTOR PROCEEDS AT ITS OWN RISK AND ANY COST FOR CORRECTIVE WORK WILL BE BORNE BY THE CONTRACTOR.
- 20. PENETRATIONS OF FIRE RATED WALLS OR FLOORS BY PIPE SHALL BE SEALED BY A FIRESTOPPING SYSTEM UL LISTED FOR THE APPLICATION. INSTALL PENETRATION SEAL MATERIALS IN ACCORDANCE WITH PRINTED INSTRUCTIONS OF THE UL FIRE RESISTANCE DIRECTORY AND MANUFACTURERS INSTRUCTIONS. FIRESTOPPING SYSTEM SHALL BE EQUAL TO 3M FIRE BARRIER. FIRESTOPPING MATERIAL SHALL BE CAULK OR PUTTY TYPE. FIRESTOP ALL PENETRATIONS THROUGH FIRE RATED WALLS AS REQUIRED TO PRESERVE THE FIRE RATING OF THE STRUCTURE. ALL NEW AND EXISTING PENETRATIONS THROUGH FIRE RATED CONSTRUCTION WITHIN THE LIMITS OF THIS PROJECT SHALL BE FIRE STOPPED. ALL NEW AND EXISTING PENETRATIONS THROUGH FIRE RATED CONSTRUCTION WITHIN THE LIMITS OF THIS PROJECT SHALL BE FIRE STOPPED.
- 21. COMMISSION REPORT ON LIGHTING SYSTEMS PER 2015 IECC C408.3.

## ELECTRICAL SYMBOLS



# AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES

1. ALL WORK INCLUDED HEREIN SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST RECENT VERSION OF AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG). ALL OPERABLE DEVICES SUCH AS, BUT NOT LIMITED TO. SWITCHES, PULLSTATIONS, AND THE THERMOSTAT'S SHALL BE INSTALLED AT +48" A.F.F. TO THE TOP MOST OPERABLE PORTION OF THE CONTROL IN ACCORDANCE WITH SECTION 309-OPERABLE PARTS. RECEPTACLES, TELEPHONE/DATA OUTLETS, AND SIMILAR DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 308 - REACH RANGES, AND THESE DEVICES SHALL BE INSTALLED AT A MINIMUM OF 15" TO THE BOTTOM OF THE DEVICE.

## ELECTRICAL ABBREVIATIONS

INDICATES MOUNTING HEIGHTS ARE TO CENTERLINE OF DEVICE AFF OR AFG

710	INDICATES MODITING HEIGHTS ARE TO CENTERCINE OF DEVICE AT OR ALG
AF	AMP FUSE (FOR FUSES), AMP FRAME (FOR CIRCUIT BREAKERS)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	LOCAL AUTHORITY HAVING JURISDICTION
AT	AMP TRIP
ATS	
MTS	
С	CONDUIT
CONT	CONTINUATION
CU	COPPER
CW	COLD WATER PIPE
AFCI	INDICATES ARC FAULT CIRCUIT INTERRUPTER WITH DEDICATED NEUTRAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER WITH DEDICATED NEUTRAL
GFI	
GFP	
GND	
HELCO	
IWP	IN-USE WEATHER-PROOF (NEMA 3R)
LO	LUGS ONLY (SEE ALSO MLO)
MCB	MAIN CIRCUIT BREAKER
MLO	
NEC	NATIONAL ELECTRICAL CODE, AS ADOPTED BY THE AHJ
Р	POLE
PH	PHASE DANIEL CONTROLLED CONTROLLE
PNL	
S/N	
TYP UPS	TYPICAL UNINTERRUPTIBLE POWER SYSTEM
WP	,
XFMR	TRANSFORMER UNLESS NOTED OTHERWISE
UNO	
(D)	DEMOLITION
(E)	EXISTING

HAWAII COUNTY ENERGY CODE

RELOCATE/RELOCATED

2015 IECC, HAWAII REVISED STATUTES HRS 107-24 TO 28 & HAWAII ADMINISTRATIVE RULES CHAPTER HAR 3-181.1

#### COMMERCIAL BUILDING ENERGY EFFICIENCY STANDARDS

I CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THIS PROJECTS DESIGN SUBSTANTIALLY CONFORMS TO THE BUILDING ENERGY EFFICIENCY STANDARDS

PERTAINING TO THE <u>COMMERCIAL PROVISIONS FOR ELECTRICAL &amp; LIG</u> (C405, & C408) OF THE 2015 IECC WITH AMENDMENTS PER HA	***************************************		<u> </u>				
COMPLIANCE METHOD							
X 2015 IECC AS AMENDED. MANDATORY AND PRESCRIPTIVE							
2015 IECC AS AMENDED. MANDATORY AND TOTAL BUILDING PERFOR	MANCE						
ASHRAE STANDARD 90.1-2013. MANDATORY AND PRESCRIPTIVE	,						
ASHRAE STANDARD 90.1-2013. MANDATORY AND TOTAL BUILDING P	ERFORMA	NCE					
INFORMATION IN CONSTRUCTION DOCUMENTS  YES							
INTERIOR LIGHTING							
OCCUPANT SENSOR CONTROLS C405.2.1							
TIME SWITCH CONTROLS C405.2.2							
DAYLIGHT RESPONSIVE CONTROLS C405.2.3							
DAYLIGHT ZONES ON PLANS C405.2.3.2 & C405.2.3.3							
GUEST ROOM CONTROLS C405.2.4							
INTERIOR LIGHTING FIXTURE SCHEDULE							
INPUT POWER FOR INTERIOR LIGHTING FIXTURES C405.4.1							
INTERIOR LIGHTING FIXTURE LOCATIONS C40	3.2.8	Χ	***************************************				

TESTING REQUIREMENT	C408.3	Χ	
EXTERIOR LIGHTING			
EXTERIOR LIGHTING CONTROLS	C405.2.5		>
EXTERIOR LIGHTING FIXTURE SCHEDULE			>
INPUT POWER FOR EXTERIOR LIGHTING FIXTURES			>
EXTERIOR LIGHTING FIXTURE LOCATIONS			>
ELECTRICAL			

ELECTRICAL TRANSFORMER FEFICIENCY C405.7 TENANT SUBMETERING C405.10

NOTES:

SIGNATURE: DATE: NAME: ELI B. WALTZ ELECTRICAL ENGINEER

LIGHTING CONTROL FUNCTIONAL PERFORMANCE

LICENSE NO.:18572-E

HAWAII HEALTH SYSTEMS CORPORATION Quality Healthcare for All

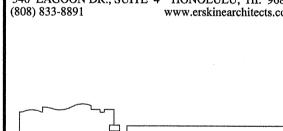


#### **KONA** COMMUNITY HOSPITAL

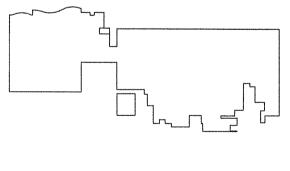
79-1019 HAUKAPILA STREET KEALAKEKUA, HAWAII 96750

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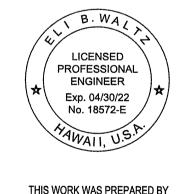
REVISION RCHITECTS, INC.



ERSKINE ARCHITECTS, INC



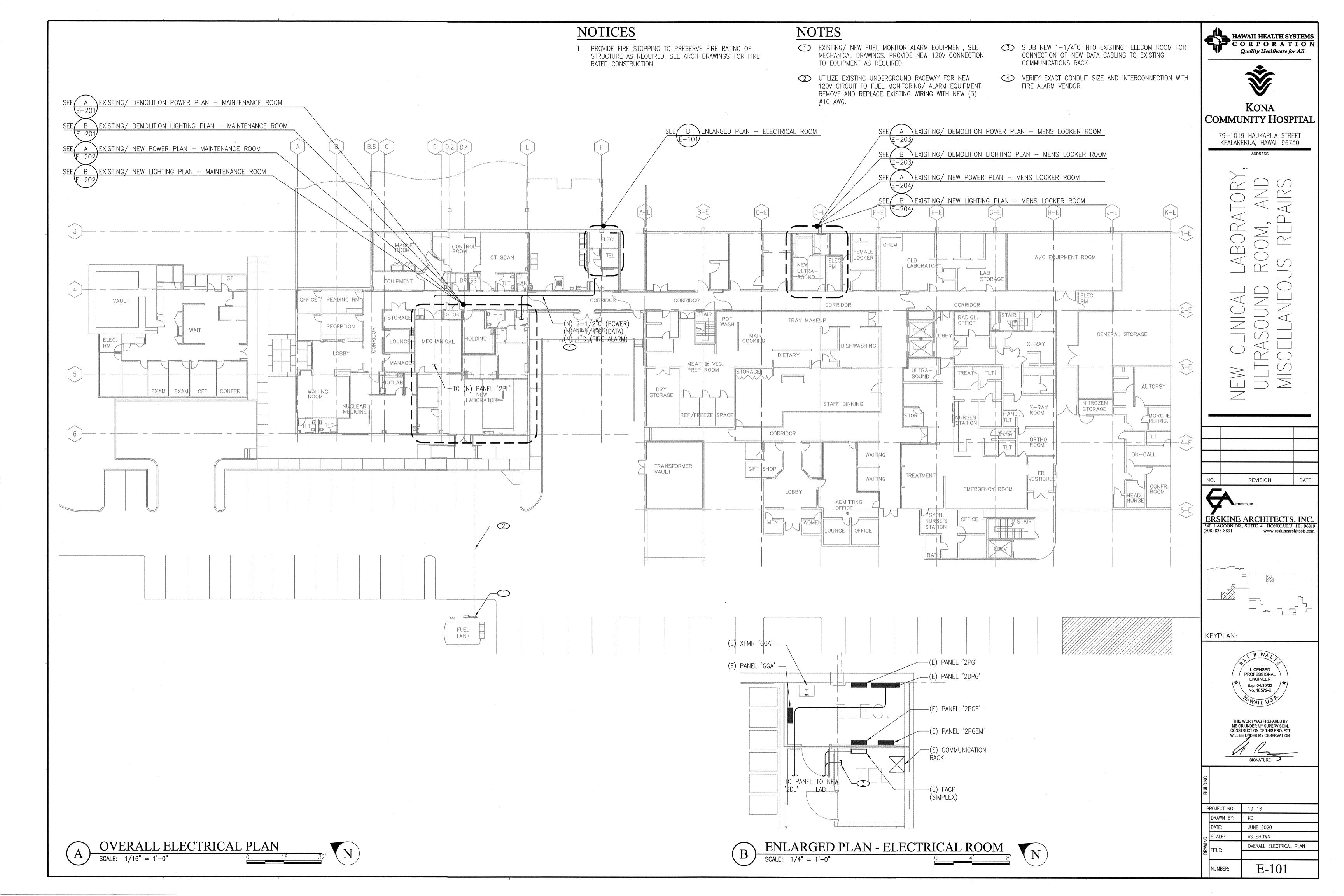


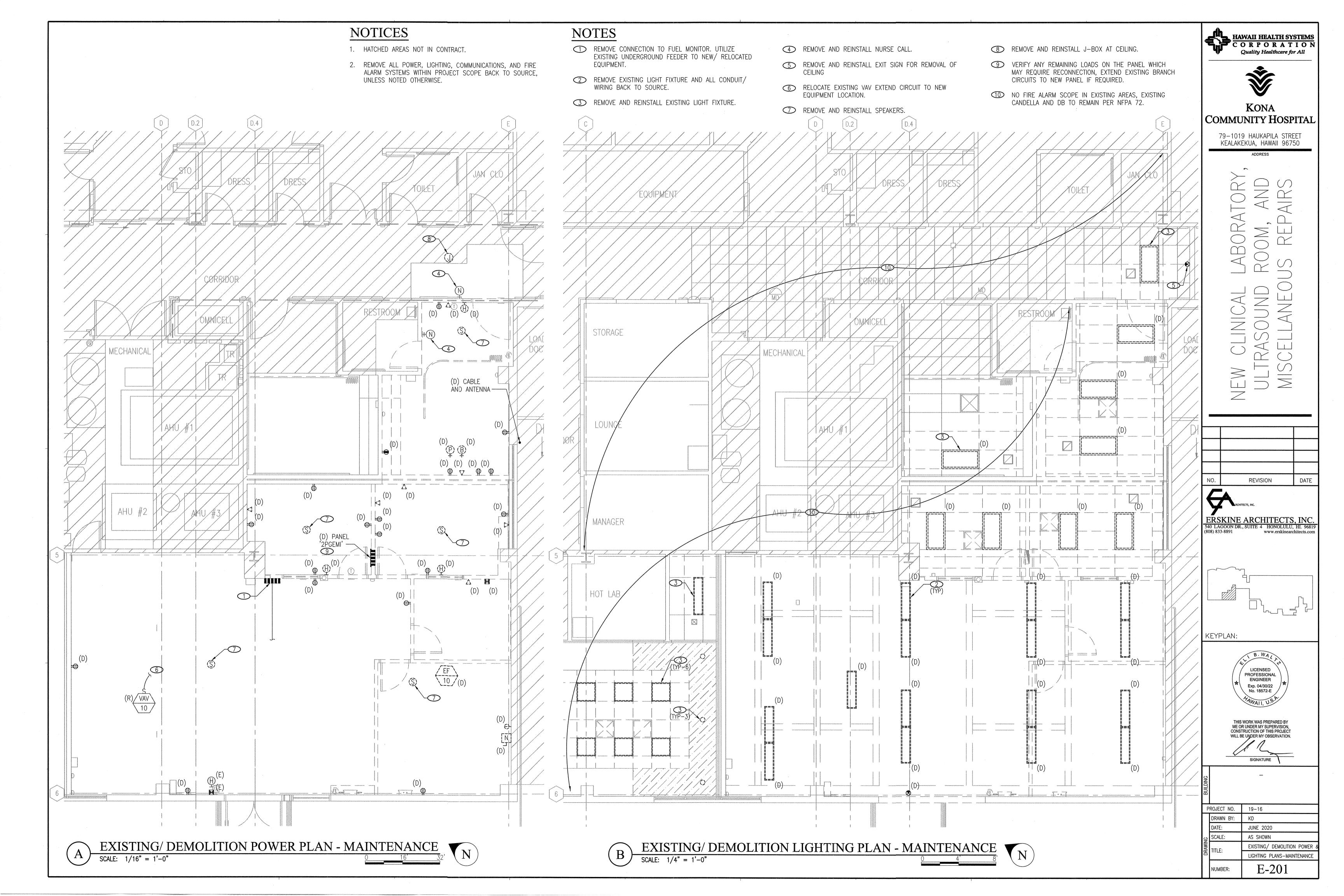


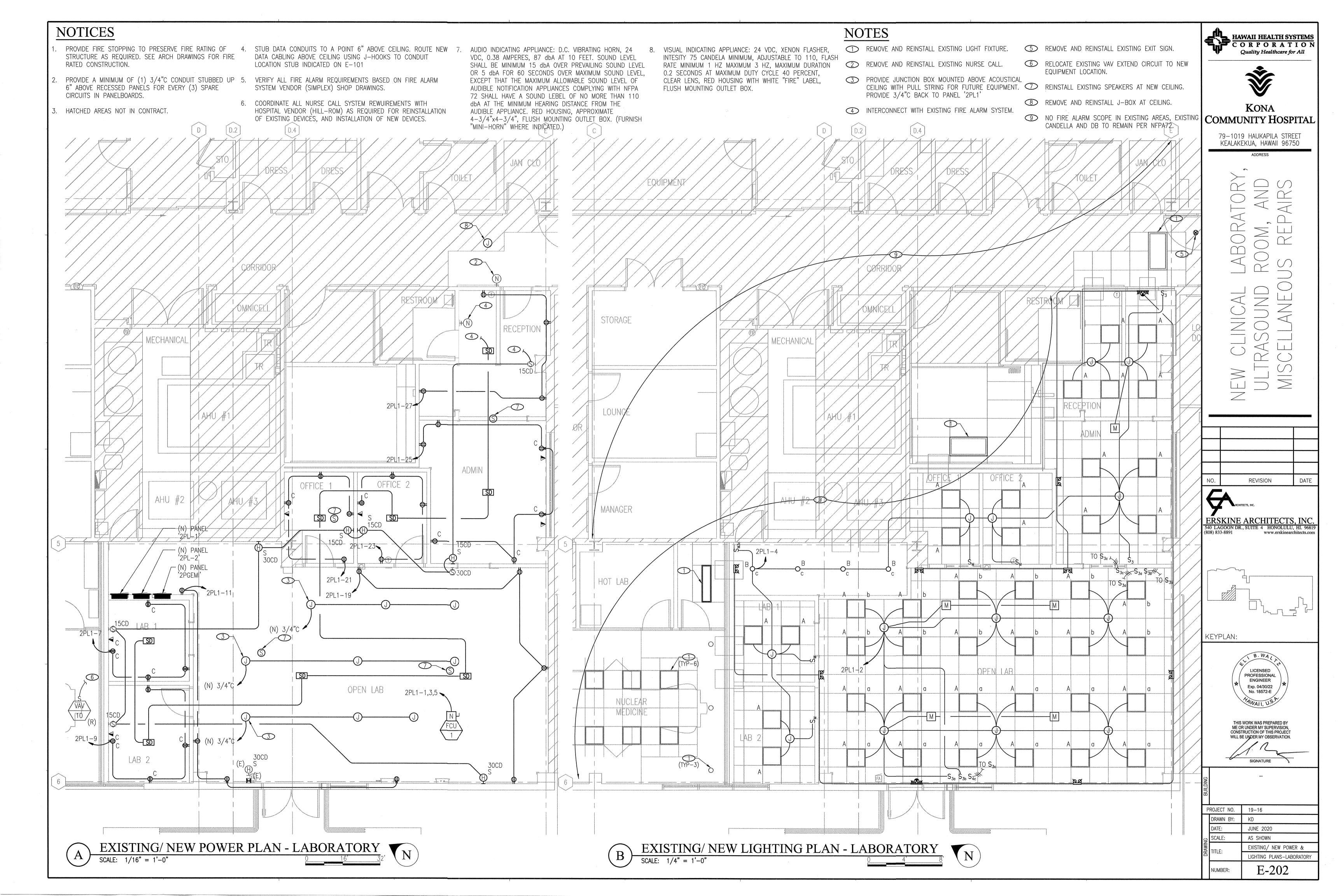
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. SIGNATURE

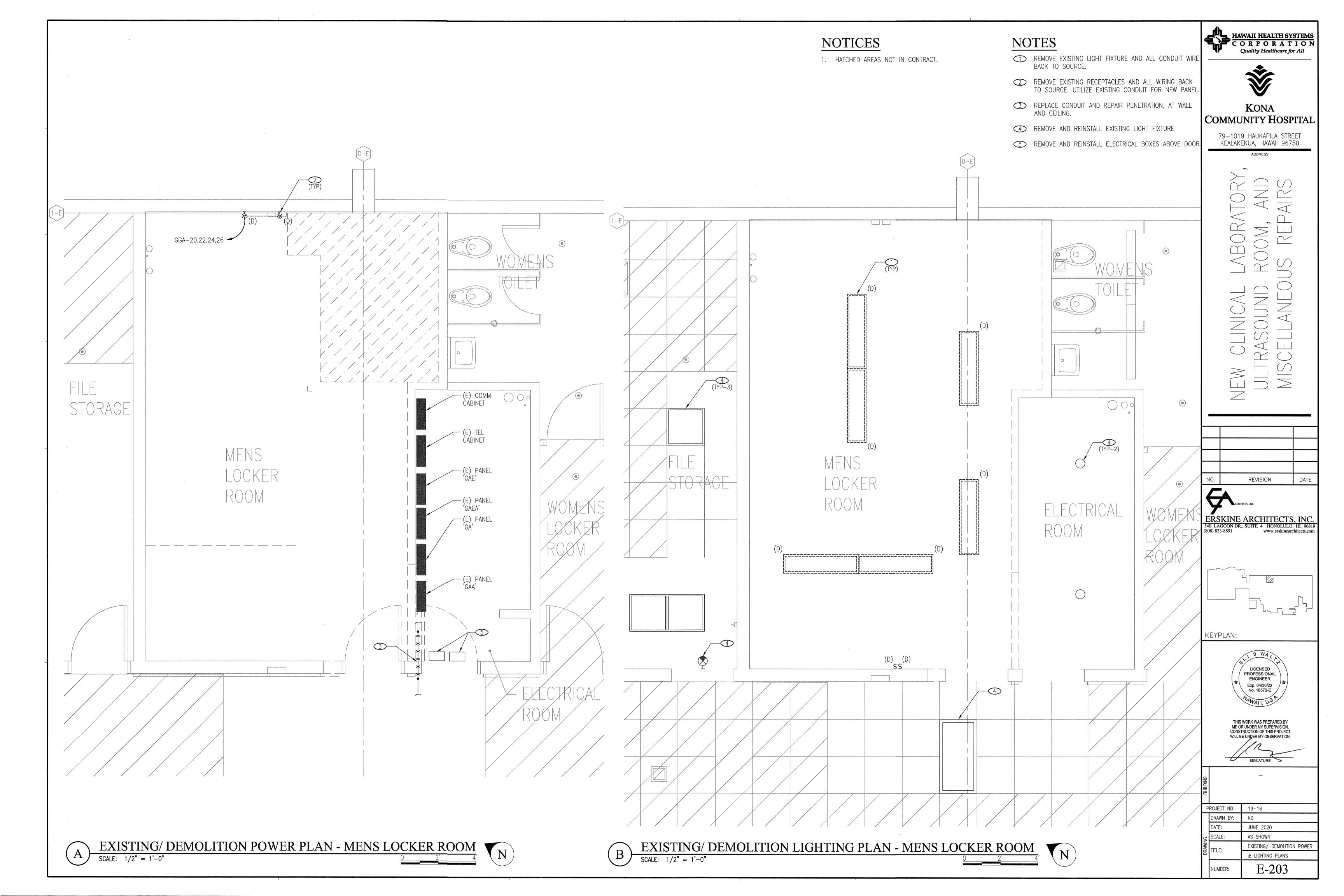
PROJECT NO. 19-16 DRAWN BY:

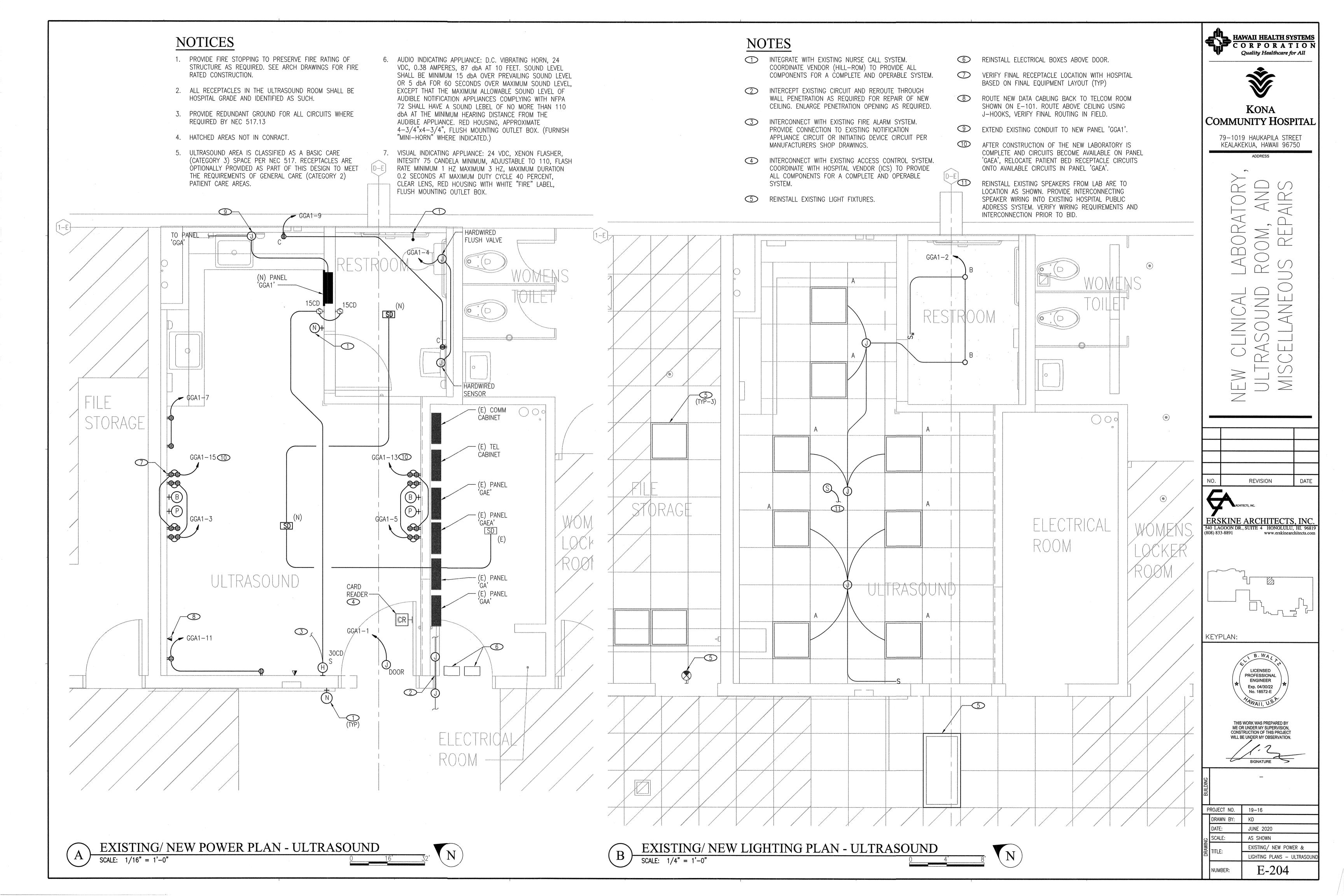
JUNE 2020 SCALE: AS SHOWN ELECTRICAL SYMBOLS, IECC & ABBREVIATIONS E-001 NUMBER:

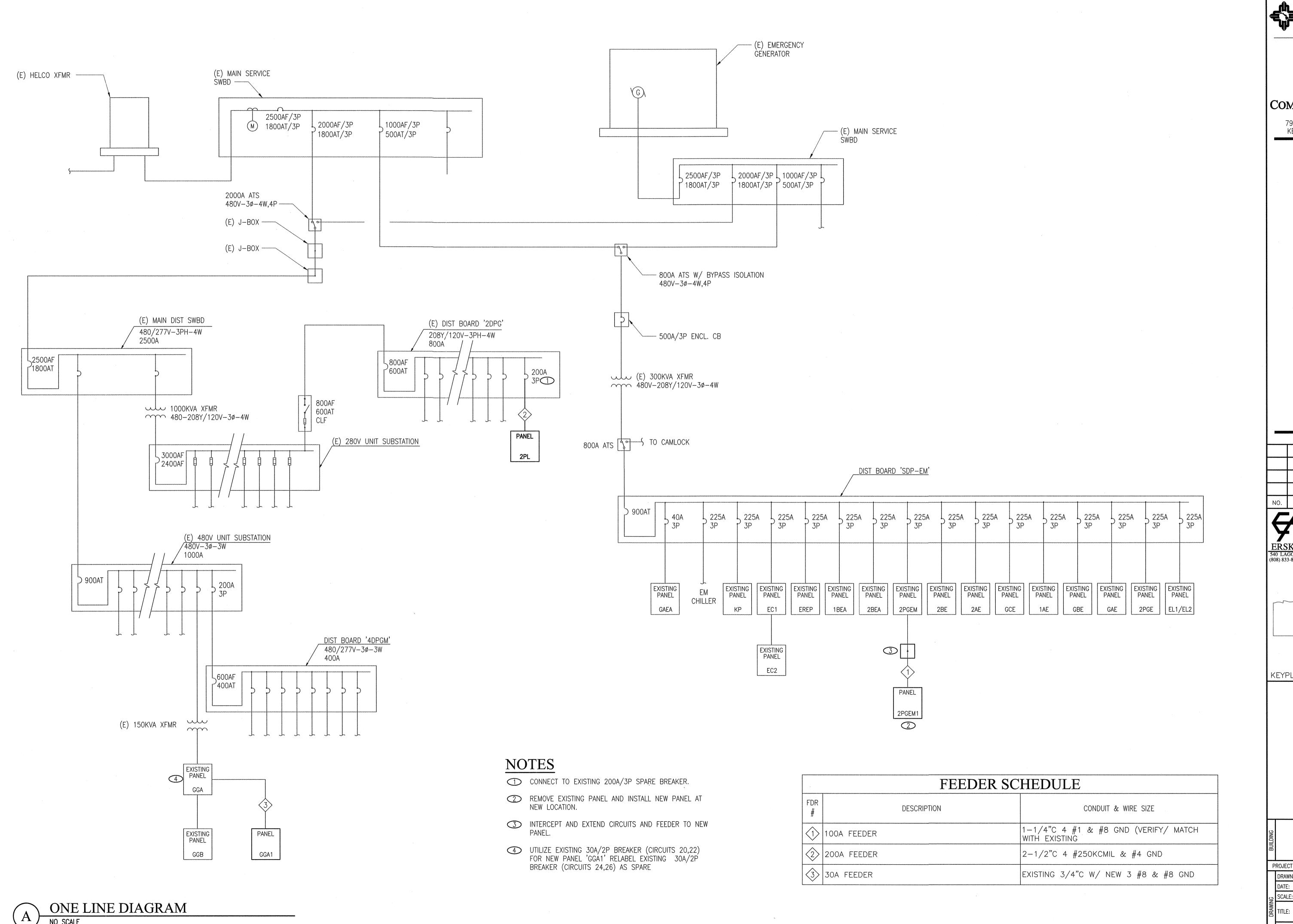












HAWAII HEALTH SYSTEMS
C O R P O R A T I O N
Quality Healthcare for All



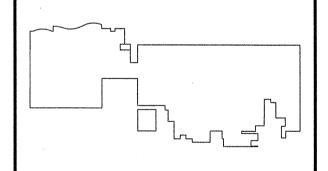
KONA COMMUNITY HOSPITAL

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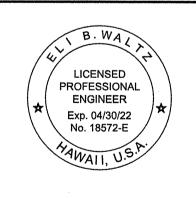
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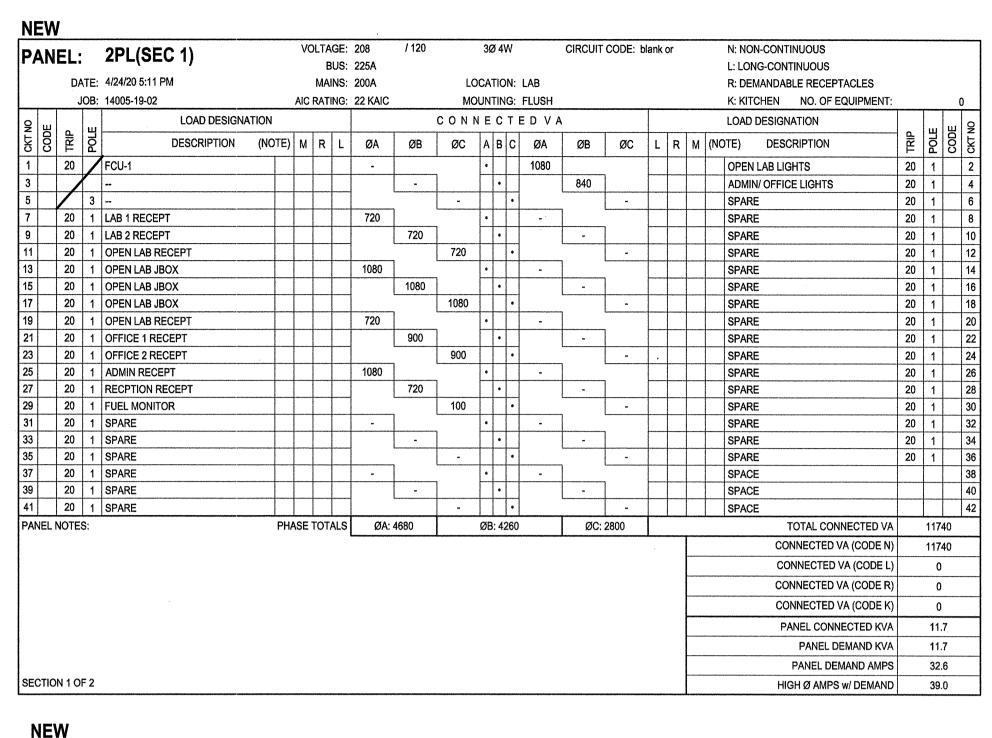
KEYPLAN:



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BULDING		
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DRAWN BY: JUNE 2020 SCALE: AS SHOWN ELECTRICAL ONE LINE DIAGRAM E-301 NUMBER:



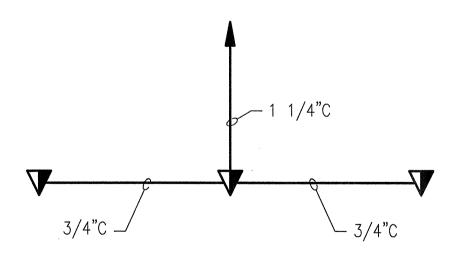
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	LUMINAIRE SCHEDULE														
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А	E2 LIGHTING	E2-PLC-50W-2'X2'	45	GRID	LED	2'X2' COLOR TUNEABLE FLAT PANEL, 110 LPW, 80+ CRI.	120/277								
В	E2 LIGHTING	E2-P23R16	16	RECESSED	LED	4000K, 80+ CRI	120/277								
ছন্ত্র	LITHONIA	ELM2L	5	UNIVERSAL	LED	EMERGENCY BUGEYE FIXTURE WITH 90 MINUTE BATTERY BACKUP	120								
<u>2000</u>	LITHONIA	LHQM-LED-R-SD	5	UNIVERSAL	LED	EXIT SIGN WITH LED COMBO AND EMERGENCY BATTERY BACKUP	120								

RUN CONDUIT TO A POINT 6" ABOVE CEILING HOME RUN CABLES TO TELECOMM ROOM SHOWN ON DRAWINGS



NOTES:

1. DATA ONLY OUTLETS ARE SIMILAR.

DATA ONLY OUTLETS ARE SIMILAR.
 THEORETICAL DRAWING. INSTALL BOXES PER EIA/TIA
 BICSI GUIDELINES.







KONA COMMUNITY HOSPITAL

> 79-1019 HAUKAPILA STREET KEALAKEKUA, HAWAII 96750

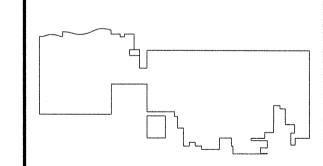
ADDRESS

JEW CLINICAL LABORATORY,
ULTRASOUND ROOM, AND
MISCELLANEOUS REPAIRS

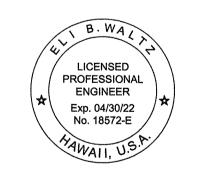
NO. REVISION DATE

ERSKINE ARCHITECTS, INC.

540 LAGOON DR., SUITE 4 HONOLULU, HI. 96819
(808) 833-8891 www.erskinearchitects.com



KEYPLAN:



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

BUILDING

PROJECT NO. 19–16

DRAWN BY: KD

DATE: JUNE 2020

SCALE: AS SHOWN

TITLE:

ELECTRICAL SCHEDULES

TITLE:

ELECTRICAL SCHEDULES

NUMBER:

ELECTRICAL SCHEDULES