BUILDING 175 RENOVATION

PROJECT NUMBER: PN 15080016 / CA-2831

for Hawaii Army National Guard Kalaeloa, Kapolei, Hawaii

DRAWING INDEX GENERAL NOTES LOCATION MAP SHT NO. DRAWING NO. DESCRIPTION TITLE SHEETS T--1 TITLE SHEET, GENERAL NOTES, VICINITY MAP, LOCATION MAP, INDEX TO DRAWINGS CIVIL THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS. C-11 CONSTRUCTION NOTES 1 DIMENSIONS AND CLEARANCES AT THE JOB SITE PRIOR TO THE 2 COMMENCEMENT OF ANY WORK C-1.2 3 CONSTRUCTION NOTES 2 4 C-2.1 SITE, UTILITY & GRADING PLAN NOTIFY AND COORDINATE WITH THE OFFICER IN CHARGE OF 5 C-31 SECURITY FENCE DETAILS 1 CONSTRUCTION ANY MAJOR DEVIATIONS FROM THESE PLANS DUE TO C--3.2 SECURITY FENCE DETAILS 2 6 UNFORSEEN OR VARYING FIELD CONDITIONS. 7 C-3.3 PARKING DETAILS ANY CHANGES OR MODIFICATIONS SHALL BE APPROVED IN WRITING BY 8 C--3.4 MISCELLANEOUS DETAILS THE OFFICER IN CHARGE OF CONSTRUCTION PRIOR TO THE COMMENCEMENT OF NEW OR ADDITIONAL WORK. ARCHITECTURAL 0 A-1.0 DEMO FLOOR PLAN 9 UNLESS OTHERWISE SPECIFIED, ALL DETAILS AND DIMENSIONS ARE 10 A-1.1 DEMO ELEVATIONS TYPICAL 11 A-2.0 NEW FLOOR PLAN ALL WORK SHOWN SHALL BE CONSIDERED NEW WORK, ALL MATERIALS REFLECTED CEILING PLAN 12 A-2.1 INCORPERATED IN THIS PROJECT SHALL BE NEW MATERIALS UNLESS 13 A-2.2 ROOF PLAN, ROOF DETAILS OTHERWISE SPECIFIED. 14 A-2.3 FLOOR LEVELING PLAN 15 A-3.0 EXTERIOR FLEVATIONS 6. ALL EXPOSED SURFACES DAMAGE DURING THE COURSE OF A-4.0 INTERIOR ELEVATIONS 16 CONSTRUCTIONS SHALL BE REPAIRED AND REPAINTED TO MATCH PROJECT 17 A-4.1 INTERIOR FUEVATIONS EXISTING ADJACENT SURFACES AT NO ADDITIONAL COST TO THE NORTH LOCATION 18 A-4.2 INTERIOR ELEVATIONS A-5.0 BUILDING SECTIONS 19 ALL REMEDIAL REPAIR WORK TO EXISTING CONDITIONS IN THE AREA 20 A-6.0 PARTITION TYPES OF NEW WORK SHALL BE INCLUDED AS PART OF THIS CONTRACT. 21 A-7.0 DOOR SCHEDULE, DOOR TYPES, DOOR DETAILS 22 A-8.0 WINDOW SCHEDULE, WINDOW TYPES, WINDOW DETAILS, ROOM FINISH SCHEDULE THE CONTRACTOR IS ADVISED TO VISIT THE PROJECT SITE IN ORDER 23 A-9.0 MISC DETAILS TO FAMILIARIZE THEMSELVES WITH THIS WORK AND REPORT ANY PROJECT TEAM DESCREPANCIES TO THE OFFICE IN CHARGE OF CONSTRUCTION FOR CORRECTIONS TO BE INCORPERATED IN THIS CONTRACT. MECHANICAL LOOR PLAN - AIR CONDITIONING 24 M-1 **CIVIL ENGINEER:** ARCHITECT: 9. ALL WORK SHALL BE COORDINATED WITH THE ACTIVITY THROUGH THE 25 14-2 FLOOR PLAN - PLUMBING OFFICER IN CHARGE OF CONSTRUCTION (ROICC). THE CONTRACTOR 26 ₩-3 EQUIPMENT SCHEDULE AND DIAGRAMS MITSUNAGA & ASSOCIATES, INC. MITSUNAGA & ASSOCIATES, INC. SHALL GIVEN WRITTEN NOTICE TO THE OFFICER IN CHARGE OF CONSTRUCTION FOR ANY DEVIATION TO THE ESTABLISHED 747 AMANA STREET, SUITE 216 747 AMANA STREET, SUITE 216 HONOLULU, HAWAII 96814 HONOLULU, HAWAII 96814 CONSTRUCTION SCHEDULE. PHONE: 945-7882 FAX: 946-2363 PHONE: 945-7882 FAX: 946-2363 ELECTRICAL E-MAIL: mitsungag003@hawaii.rr.com E-MAIL: mitsunaaa003@hawaji.rr.com SITE ELECTRICAL PLAN, ELECTRICAL SYMBOLS LIST, GENERAL ELECTRICAL NOTES 27 E-1 10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE 28 E-2 ONE LINE DIAGRAM OWNER FOR ANY AND ALL DISCREPANCIES FOUND ON THE DRAWINGS 29 E-3 CONNECTION DIAGRAM (EXISTING/REMOVAL WORK), TELEPHONE CONNECTION DIAGRAM MECHANICAL ENGINEER: ELECTRICAL ENGINEER: OR SPECIFICATIONS PRIOR TO THE BID OPENING, ANY DISCREPANCIES **N A** 30 E-4 ELECTRICAL PLAN (EXISTING REMOVAL WORK) MCE INTERNATIONAL OR QUESTIONS RAISED AFTER THE BID OPENING THAT MAY RESULT IN H & O III E-5 31 LECTRICAL PLAN (EXISTING NEW WORK) EXTRA COST SHALL BE BORNE BY THE CONTRACTOR. IT SHALL BE 1360 S. BERETANIA STREET, SUITE 400 1542 YOUNG STREET, SUITE 310 32 E-6 THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT SHOP DRAWINGS ON ELECTRICAL PLAN (EXISTING NEW WORK) HONOLULU, HAWAN 96826 PHONE: 955-5911 FAX: 955-5915 SPIEN HONOLULU, HAWAII 96814 PHONE: 941-0955 FAX: 550-8167 HOW THEY WILL RESOLVE SUCH DISCREPANCIES WHICH MUST BE 33 E-7 ELEVATION - EXTERIOR SERVICE EQUIPMENT (EXISTING REMOVAL WORK), ELEVATION APPROVED BY THE ENGINEER / ARCHITECT. INTERIOR SERVICE EQUIPMENT SERVICE REMOVAL WORK. E-MAIL: mcehnl@lava.net E-MAIL: hando3@pixi.com PROFE ARC No. **ENVIRONMENTAL ENGINEER:** RAMAT KIMURA INTERNATIONAL 1600 KAPIOLANIBLVD, SUITE 1610 HONOLULU This work was pre-ray supervision and project will be und (Observation of co-in Chapter 18-11) Definitions of the I Rules, Professiono Supervision and Lor HAWAN 96814 PHONE: 944-8848 FAX: 941-8999 E-MAIL: projects@kimurain tional.com Surveyors, end Lo The Contractor will be responsible for coordinating the work among the various trades as necessary to void conflicts and to insure the instellation of all work within the vurdiable space RITSURACA & ASSOC IF SHEET IS LESS THAN 22 x 34 IT IS A REDUCED PRINT-SCALE REDUCED ACCORDINGLY NOTE: Contractor to di dimensions at lob befor

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CONSTRUCTION NOTES

- 1. ALL APPLICABLE CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1986 AND STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1984, AS AMENDED. OF THE DEPARTMENT OF PUBLIC WORKS. CITY AND COUNTY OF HONOLULU AND THE COUNTIES OF KAUAI, MAUI, AND HAWAII, AND HRS 103.50.
- 2. THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. WHEREVER CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES.
- 3. THE EXISTING UTILITIES HAVE BEEN SHOWN ON THESE PLANS INSOFAR AS IT IS POSSIBLE TO DO SO. THEIR LOCATIONS AS SHOWN ARE APPROXIMATE ONLY AND THE CONTRACTOR SHALL MAKE INDEPENDENT CHECK ON THE GROUND BY PROBING AND GOVERNMENTAL AGENCIES TO ASCERTAIN THEIR EXACT LOCATIONS. IF UTILITIES NOT SHOWN ARE SUSPECTED, REQUIRE TONING OF THESE AREAS PRIOR TO EXCAVATION TO LOCATE THEM.
- 4. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. BEFORE DISRUPTING SERVICE OF ANY UTILITY, THE CONTRACTOR SHALL CONTACT THE OFFICER IN CHARGE, DAMAGE TO EXISTING UTILITIES AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE GOVERNMENT.
- 5. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR UTILITIES SUCH AS ELECTRICITY, ETC. REQUIRED FOR HIS OPERATIONS, AND ALL COSTS FOR THESE UTILITIES SHALL BE BORNE BY THE CONTRACTOR.
- 6. ALL EXISTING UTILITIES TO REMAIN IN USE, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE PROTECTED AT ALL TIMES BY THE CONTRACTOR DURING CONSTRUCTION UNLESS SPECIFIED ON THE PLANS TO BE ABANDONED. ANY DAMAGE TO THE EXISTING UTILITIES SHALL BE REPAIRED AND PAID FOR BY THE CONTRACTOR.
- 7. UNLESS RELOCATION IS CALLED FOR ON THE PLANS, EXISTING UTILITIES SHALL REMAIN IN-SERVICE AND IN PLACE. IF RELOCATION OF EXISTING UTILITIES IS REQUIRED FOR THE CONTRACTOR'S CONVENIENCE, INTERRUPTION OF SERVICE SHALL BE KEPT TO A MINIMUM AND SHALL BE DONE AT THE CONTRACTOR'S EXPENSE AND ONLY WITH THE APPROVAL OF THE OFFICER IN CHARGE.
- 8. THE CONTRACTOR SHALL VERIFY AND CHECK ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK ALL DIMENSIONS SHALL HAVE PREFERENCE OVER SCALE
- 9. THE EXISTING IMPROVEMENTS ON THE PREMISES AND IN ADJACENT AREA THAT ARE NOT TO BE REMOVED, SHALL BE PRESERVED AND PROTECTED. ANY AND ALL DAMAGES RESULTING FROM THE CONTRACTOR'S CONSTRUCTION OPERATION SHALL BE REPLACED AND REPAIRED TO ORIGINAL CONDITION, AT NO ADDITIONAL COST TO THE GOVERNMENT.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING AND RESTORATION TO ORIGINAL OR BETTER CONDITION, NEARBY IMPROVEMENTS AFFECTED BY DUST AND/OR OTHER REASONS RESULTING FROM THE CONSTRUCTION ACTIVITY.
- 11. NO CONTRACTOR SHALL PERFORM ANY CONSTRUCTION OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW INTO EXISTING DRAINAGE SYSTEMS, OR ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS NECESSARY.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER QUALITY AND WATER POLLUTION CONTROL STANDARDS CONTAINED IN HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS", AND TITLE 11, CHAPTER 55, "WATER POLLUTION CONTROL", AS WELL AS CHAPTER 14 OF THE REVISED ORDINANCES OF HONOLULU, AS AMENDED. BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED AT ALL TIMES DURING CONSTRUCTION.
- 13. BASE PLANS PROVIDED BY THE STATE OF HAWAII, DEPARTMENT OF DEFENSE REFERENCE PROJECT: 298TH REGIONAL TRAINING INSTITUTE, PHASE II, DATED MARCH 28, 2000.
- 14. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH EXISTING SITE CONDITIONS PRIOR TO
- 15. GOVERNMENT DISPOSAL AREAS WILL NOT BE AVAILABLE FOR THE DISPOSAL OF WASTE MATERIALS. THE CONTRACTOR WILL BE FULLY RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL EXCESS AND WASTE MATERIALS GENERATED DURING CONSTRUCTION
- 16. ALL UTILITY SERVICES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. ANY DISRUPTION SHALL BE MINIMIZED AND COORDINATED WITH THE CONTRACTING OFFICER OR THEIR DESIGNATED REPRESENTATIVE AND THE BASE CIVIL ENGINEER.
- WHERE WARRANTIES ARE SPECIFIED, CONTRACTOR'S BID SHALL INCLUDE FULL 17. COMPLIANCE OF ALL CONDITIONS REQUIRED FOR THE WARRANTIES. WHERE THE MANUFACTURER'S WARRANTY REQUIREMENTS AND/OR RECOMMENDATIONS DIFFER FROM THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR IS EXPECTED TO COMPLY WITH THE STRICTER OF THE TWO UNLESS NOTIFIED OTHERWISE. CONTRACTOR SHALL INFORM THE CONTRACTING OFFICER IN WRITING PROVIDE SHOP DRAWINGS. AND AS-BUILT DRAWINGS WHERE CONSTRUCTION WILL DIFFER FROM THE CONSTRUCTION DOCUMENTS, AS A RESULT OF WARRANTY REQUIREMENTS.
- 18. ALL MATERIALS, ITEMS IN THE DRAWING ARE "NEW", UNLESS NOTED AS "EXISTING".

CONSTRUCTION NOTES (CONTINUED)

- 19. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER FOR ANY AND ALL DISCREPANCIES FOUND ON THE DRAWINGS OR SPECIFICATIONS PRIOR TO THE BID OPENING. ANY DISCREPANCIES OR QUESTIONS RAISED AFTER THE BID OPENING THAT MAY RESULT IN EXTRA COST SHALL BE BORNE BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT SHOP DRAWINGS ON HOW THEY WILL RESOLVE SUCH DISCREPANCIES. GENERAL PRACTICE OF TRADE SHALL BE USED TO RESOLVE SUCH DISCREPANCIES WHICH MUST BE APPROVED BY THE ENGINEER/ARCHITECT.
- 20. THE BID PRICE FOR ALL DESIGN ITEMS SHALL BE INCLUSIVE OF ALL CONSTRUCTION MATERIALS, LABOR, EQUIPMENT, MANUFACTURER'S RECOMMENDATIONS, ETC. REQUIRED FOR THOSE ITEMS TO BE IN PLACE AND COMPLETE TO A STANDARD ACCEPTABLE TO THE ENGINEER/ARCHITECT AND OWNER'S REPRESENTATIVE. THE NEW WORK SHALL TIE SMOOTHLY INTO THE EXISTING FACILITIES, MINOR REVISIONS TO THE DESIGN OF THE GRADING, UTILITIES, EROSION CONTROL, TRAFFIC CONTROL, ROADWAY, SIDEWALKS, ETC. MAY OCCUR AFTER THE BID OPENING AS PART OF THE PLAN REVIEW OR COORDINATION PROCESS. THESE MINOR REVISIONS SHALL BE CONSIDERED INCEDENTAL TO THE VARIOUS RELATED BID ITEMS.

GRADING NOTES

- ALL GRADING WORK SHALL BE DONE IN ACCORDANCE WITH CHAPTER 14, ARTICLES 13, 14, 15 AND 16, AS RELATED TO GRADING, SOIL EROSION AND SEDIMENT CONTROL OF THE REVISED ORDINANCES OF HONOLULU, 1990, AS AMENDED.
- 2. THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. WHEREVER CONNECTIONS OF NEW UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES.
- 3. NO CONTRACTOR SHALL PERFORM ANY GRADING OPERATION SO AS TO CAUSE FAILING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FAIL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS NECESSARY
- THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL. STANDARDS CONTAINED IN THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 60.1, "AIR POLLUTION CONTROL".
- 5. ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SURFACE WATERS FROM DAMAGING THE CUT FACE OF AN EXCAVATION OR THE SLOPED SURFACES OF A FILL. FURTHERMORE, ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SEDIMENT-LADEN RUNOEF FROM LEAVING THE SITE.
- 6 ALL SLOPES AND EXPOSED AREAS SHALL BE SODDED OR PLANTED AS SOON AS FINAL GRADES HAVE BEEN ESTABLISHED, PLANTING SHALL NOT BE DELAYED UNTIL ALL GRADING WORK HAS BEEN COMPLETED. GRADING TO FINAL GRADE SHALL, BE CONTINUOUS, AND ANY AREA WITHIN WHICH WORK HAS BEEN INTERRUPTED OR DELAYED SHALL BE PLANTED.
- 7. ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER QUALITY AND WATER POLLUTION CONTROL STANDARDS CONTAINED IN HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS", AND TITLE 11, CHAPTER 55, "WATER POLLUTION CONTROL ".
- 8. WHERE APPLICABLE AND FEASIBLE THE MEASURES TO CONTROL EROSION AND OTHER POLLUTANTS SHALL BE IN PLACE BEFORE ANY EARTH MOVING PHASE OF THE GRADING IS INITIATED
- IF THE GRADING WORK INVOLVES CONTAMINATED SOIL, THEN ALL GRADING WORK SHALL BE DONE IN CONFORMANCE WITH APPLICABLE STATE AND FEDERAL REQUIREMENTS.
- ALL GRADING AND CONSTRUCTION WORK SHALL IMPLEMENT MEASURES TO ENSURE THAT 10. THE DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE WILL BE REDUCED TO THE MAXIMUM EXTENT PRACTICABLE AND WILL NOT CAUSE OR CONTRIBUTE TO AN EXCEEDANCE OF WATER QUALITY STANDARDS.
- 11. FOR ALL PROJECTS, WHICH WILL DISTURB ONE (1) ACRE OR MORE OF LAND, THE CONTRACTOR SHALL NOT START CONSTRUCTION UNTIL A NOTICE OF GENERAL PERMIT COVERAGE (NGPC) IS RECEIVED FROM THE DEPARTMENT OF HEALTH, STATE OF HAWAII, AND HAS SATISFIED ANY OTHER APPLICABLE REQUIREMENTS OF THE NPDES PERMIT PROGRAM. ALSO, FOR NON-CITY AND OTHER NON-GOVERNMENT AGENCY PROJECTS. THE CONTRACTOR SHALL PROVIDE A WRITTEN COPY OF THE NGPC TO THE PERMITTING AND INSPECTION SECTION, CIVIL ENGINEERING BRANCH, D.P.P., AT LEAST SEVEN (7) CALENDAR DAYS BEFORE THE START OF THE CONSTRUCTION. FOR CITY OR OTHER GOVERNMENT PROJECTS, THE CONTRACTOR SHOULD PROVIDE A WRITTEN COPY OF THE NGPC TO THE APPROPRIATE CITY DEPARTMENT OR GOVERNMENT AGENCY PER THEIR REQUIREMENTS.

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TY & CONVENIENCE NOTES

R SHALL OBSERVE AND COMPLY WITH ALL FEDERAL. STATE AND LOCAL LAWS THE PROTECTION OF PUBLIC HEALTH, SAFETY AND ENVIRONMENTAL QUALITY.

OR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AND ITS SURROUNDING ROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR DARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH.

OR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, ADES, MARKERS, CONES AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE PRECAUTIONS FOR THE PROTECTION, CONVENIENCE AND SAFETY OF THE

R'S ATTENTION IS DIRECTED TO TITLE 11, DEPARTMENT OF HEALTH, CHAPTER 46. SE CONTROL, IN WHICH MAXIMUM ALLOWABLE NOISE LEVELS HAVE BEEN SET. IF ION WILL BE REQUIRED TO OBTAIN A PERMIT FROM THE DIRECTOR OF THE HEALTH, THE CONTRACTOR SHALL OBTAIN A COPY OF CHAPTER 46 AND BECOME HE NOISE LEVEL RESTRICTIONS AND THE PROCEDURES FOR OBTAINING A PERMIT ION ACTIVITIES. APPLICATION AND INFORMATION ON VARIANCES FROM THE HEALTH SERVICES DIVISION, 591 ALA MOANA BLVD., RM. 125, HONOLULU, HAWAII VF 586-4576

RIAN WALKWAYS EXIST, THEY SHALL BE MAINTAINED IN PASSABLE CONDITION OR S FOR PEDESTRIANS SHALL BE PROVIDED. TEMPORARY PASSAGE WAYS SHALL BE ADAAG 4.3.1.

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WATER NOTES

- 1. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS AND CONSTRUCTION OF WATER SYSTEM FACILITIES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE CITY AND COUNTY OF HONOLULU BOARD OF WATER SUPPLY'S "WATER SYSTEM STANDARDS", DATED 2002, THE "WATER SYSTEM EXTERNAL CORROSION CONTROL STANDARDS", VOLUME 3, DATED 1991, AND ALL SUBSEQUENT AMENDMENTS AND ADDITIONS.
- 2. NUTS AND BOLTS FOR FLANGE CONNECTIONS WITHIN METER BOXES SHALL BE BRONZE OR STAINLESS STEEL EXCEPT COUPLING ADAPTERS WHERE "COR-TEN" (U.S. STEEL) OR "MAYARI" (BETHLEHEM STEEL) MAY BE USED. FLANGE CONNECTIONS OUTSIDE OF THE METER BOX MAY USE "COR-TEN" OR "MAYARI" TYPE NUTS AND BOLTS.
- 3. TEST PRESSURE SHALL BE ONE OF THE FOLLOWING:
- A. PREVAILING LINE PRESSURE, JOINTS LEFT EXPOSED FOR 24 HOURS TO CHECK FOR LEAKS PRIOR TO BACKFILL.
- B. 150 PSI. DURING THE 30 MINUTE PRESSURE TEST, THE PRESSURE SHALL NOT DROP MORE THAN 10 PSL
- THE CONTRACTOR SHALL CHLORINATE THE ENTIRE INSIDE SURFACE OF EACH PIPE AND FITTING WITH DISINFECTION SOLUTION OF 5 OUNCES OF SODIUM HYPOCHLORITE MIXED WITH 10 GALLONS OF WATER. (FOR CONNECTION ONLY)
- 5. THE STATE SHALL PAY THE APPLICABLE WATER SYSTEM FACILITIES AND/OR ONE-TIME SERVICE CHARGE AND FOR THE METER WHICH WILL BE FURNISHED BY BWS AND INSTALLED BY THE CONTRACTOR WHEN THE LATERAL IS INSTALLED
- THE CONTRACTOR SHALL NOTIFY BWS CAPITAL PROJECTS DIVISION, CONSTRUCTION SECTION IN WRITING AND SUBMIT SIX (6) SETS OF APPROVED CONSTRUCTION PLANS ONE WEEK PRIOR TO COMMENCING WORK ON THE WATER SYSTEM.
- CONTRACTOR SHALL CUT AND PLUG ALL EXISTING UNUSED LATERALS AT THE 7. MAIN WHETHER OR NOT SHOWN ON THE PLANS. METER AND VALVE BOXES TO BE OR ALREADY ABANDONED SHALL BE DEMOLISHED OR REMOVED AND PROPERLY DISPOSED OF. THE DAMAGED AREA SHALL BE REPAIRED TO AN EQUAL OR BETTER CONDITION THAN THE IMMEDIATE AREA. ALL WORK SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR.
- 8. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES AND STRUCTURES AS SHOWN ON THE PLANS ARE FROM THE LATEST AVAILABLE DATA BUT IS NOT GUARANTEED AS TO THE ACCURACY OR THE ENCOUNTERING OF OTHER OBSTACLES DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL DAMAGES TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOT ASSUME THAT WHERE NO UTILITIES ARE SHOWN, THAT NONE EXIST
- 9. ALL PLANS APPROVED BY THE BOARD OF WATER SUPPLY ARE BASED SOLELY ON THE ADEQUACY OF THE WATER SUPPLY.
- 10. FOR METERS 3 INCHES AND LARGER (COMPOUND, F.M. AND DETECTOR CHECK). CONTRACTOR SHALL COORDINATE WITH THE CONTRACTING OFFICER TO NOTIFY CUSTOMER CARE DIVISION - SERVICE ENGINEERING SECITON SECTION IN WRITING AFTER THE PLAN IS APPROVED, NO LATER THAN 120 DAYS, PRIOR TO WITHDRAWING METER FROM BWS STOREYARD. SUCH NOTICE SHALL INDICATE NUMBER, SIZE, AND TYPE OF METER (COMPOUND, F.M. OR DETECTOR CHECK) AND APPROXIMATE MONTH AND YEAR METER IS ANTICIPATED TO BE DRAWN OUT. IF THE APPROVED PLAN IS ALLOWED TO LAPSE, THE 120-DAY NOTICE WILL BE VOIDED
- 11. BOARD OF WATER SUPPLY APPROVAL OF THESE PLANS DOES NOT CONSTITUTE A WATER COMMITMENT, AVAILABILITY OF WATER WILL BE DETERMINED WHEN BUILDING PERMIT IS PRESENTED TO THE DEPARTMENT, WATER COMMITMENT WILL DEPEND UPON THE STATUS OF THE WATER SYSTEM AT THAT TIME. SHOULD WATER SERVICE BE MADE AVAILABLE, THE WATER COMMITMENT WILL BE EFFECTIVE WHEN THE PROJECT RECEIVES AN APPROVED BUILDING PERMIT FROM THE BUILDING DEPARTMENT. ALL WATER COMMITMENTS WILL BE CANCELED IN THE EVENT THE BUILDING PERMIT IS CANCELED
- 12. THE PROJECT SHALL BE SUBJECT TO THE BOARD OF WATER SUPPLY'S CROSS-CONNECTION CONTROL REQUIREMENTS PRIOR TO ISSUANCE OF THE BUILDING PERMIT
- 13. THE CONTRACTOR IN THE PRESENCE OF THE CONTRACTING OFFICER, WILL FLOW TEST THE MOST CRITICAL HYDRANTS (HYDRANTS WITH THE LEAST FLOW EXPECTED). THE CONTRACTING OFFICER WILL FURNISH TO THE HONOLULU FIRE DEPARTMENT (WITH A COPY TO THE BOARD OF WATER SUPPLY, CAPITAL PROJECTS DIVISION, CONSTRUCTION SECTION) THE FOLLOWING FLOW DATA: STATIC AND RESIDUAL PRESSURES IN PSI, PITOT AND FLOW IN GPM, GENERAL LAYOUT DRAWING SHOWING LOCATION OF HYDRANTS; AND MANUFACTURER OF HYDRANTS.
- 14. THE INSTALLATION, CHLORINATION AND TESTING OF THE WATER MAIN AND FACILITIES AFTER THE METER SHALL NOT BE THE RESPONSIBILITY OF THE BOARD OF WATER SUPPLY.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL WATER LINES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE ESPECIALLY CAREFUL WHEN EXCAVATING BEHIND WATER LINES, TEES, AND BENDS WHEREVER THERE IS A POSSIBILITY OF WATER LINE MOVEMENT DUE TO THE REMOVAL OF THE SUPPORTING EARTH BEYOND THE EXISTING REACTION BLOCKS. THE CONTRACTOR SHALL TAKE WHATEVER MEASURES NECESSARY TO PROTECT THE WATER LINES, SUCH AS CONSTRUCTING SPECIAL REACTION BLOCKS (WITH BWS APPROVAL) AND/OR MODIFYING HIS CONSTRUCTION METHOD.

WATER NOTES (CON'T)

- 16. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES AND STRUCTURES AS SHOWN ON THE PLANS ARE FROM THE LATEST AVAILABLE DATA BUT IS NOT GUARANTEED AS TO THE ACCURACY OR THE ENCOUNTERING OF OTHER OBSTACLES DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL DAMAGES TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOT ASSUME THAT WHERE NO UTILITIES ARE SHOWN, THAT NONE EXIST.
- 17. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL BY BOARD OF WATER SUPPLY, THE MANUFACTURER'S CERTIFICATION THAT ALL CAST IRON (GRAY OR DUCTILE) FITTINGS FOR THE PROJECT CONFORM IN ALL RESPECTS TO THE WATER SYSTEM STANDARDS, DATED 2002
- 18. POLYGON SHAPE FOR MECHANICAL JOINT GLANDS AS DESCRIBED IN AWWA STANDARD C111 SHALL BE "STRAIGHT-SIDED" OR AN APPROVED EQUAL ON A JOB-TO-JOB BASIS.
- 19. RE-APPROVAL SHALL BE REQUIRED IF THIS PROJECT IS NOT UNDER CONSTRUCTION WITHIN A PERIOD OF TWO YEARS.
- 20. THE BACKFLOW PREVENTER DEVICE MUST BE INSTALLED BEFORE METER IS ISSUED.
- 21. THE CONTRACTOR/DEVELOPER SHALL OBTAIN A NPDES PERMIT PRIOR TO CHLORINATION AND/OR DEWATERING, A COPY OF THE PERMIT SHALL BE SUBMITTED TO THE BOARD OF WATER SUPPLY CAPITAL PROJECTS DIVISION CONSTRUCTION SECTION
- 22. PIPE CUSHION SHALL BE OF HIGH RESISTIVITY MATERIAL. THE CONTRACTOR SHALL SUBMIT A SOIL CERTIFICATION THAT HIGH RESISTANT CUSHION MATERIAL HAS A RESISTIVITY GREATER THAN 5,000 OHM-CM. REMAINDER OF THE BACKFILL MATERIAL SHALL BE AS SPECIFIED IN THE WATER SYSTEM STANDARDS. PIPE CUSHION AND BACKFILL MATERIAL SHALL CONTAIN NO HAZARDOUS SUBSTANCES ABOVE REGULATORY ACTION LEVELS INCLUDING BUT NOT LIMITED TO LEAD, ASBESTOS, MERCURY, CHROMIUM, CADMIUM, ZINC, STRONTIUM, AND POLYCHLORINATED BIPHENYLS (PCB)
- 23. INSTALL 4 MIL THICK, NON-METALLIC, BLUE COLORED, 6 INCHES WIDE WARNING TAPE OVER CENTERLINE OF THE PIPE AND BELOW THE BASE COURSE ALONG THE ENTIRE LENGTH OF TRENCH. TAPE SHOULD BE MARKED WITH "CAUTION WATER LINE BURIED BELOW".
- 24. THE CONTRACTOR SHALL FURNISH AND INSTALL POLYETHYLENE WRAP, 3 FEET MINIMUM AT ALL TAPS (FOR DI PIPE AND COPPER LATERAL COMBINATION ONLY) AND PLASTIC PIPE (PE TUBBING) 3 FEET LONG AFTER METERS FOR ALL SERVICE LATERAL CONNECTIONS
- 25. POLYVINYL CHLORIDE (PVC) PIPES SHALL BE CLASS 150, ALL DUCTILE IRON VALVES AND METALLIC FITTINGS SHALL BE WRAPPED WITH TWO LAYERS OF 8 MIL POLYETHYLENE WRAP. NO BENDING OF POLYVINYL CHLORIDE PIPES SHALL BE PERMITTED. THE INSTALLATION OF PVC PIPE, ACCORDING TO THE PLANS AND SPECIFICATIONS AS BID ON BY THE CONTRACTOR, THAT MAY REQUIRE ADDITIONAL DESIGN WORK, ADDITIONAL FITTINGS AND SPECIAL COUPLINGS SHALL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE BID IN THE PROPOSAL FOR PVC PIPE. ANY ADDITIONAL DESIGN WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 26. THE CONTRACTOR SHALL INSTALL ELECTRONIC MARKERS TO ALL MAINS AND TEST THE ELECTRONIC MARKERS PRIOR TO INSTALLATIONS TO VERIFY PROPER OPERATION. BWS PERSONNEL SHALL VERIFY THE NUMBER AND LOCATIONS OF PLACED ELECTRONIC MARKERS BEFORE FINAL PAVING OF THE PROJECT.
- 27. ALL POLYVINYL CHLORIDE (PVC) PIPE DEFLECTIONS SHALL BE ACCOMPLISHED ONLY BY THE USE OF SPECIAL PVC DEFELCTION COUPLINGS. DEFECTION AROUND CURVES SHALL BE ACCOMPLISHED ONLY BY USE OF PVC DEFLECTION COUPLINGS.
- 28. ALL SECTIONS OF THE WATER MAIN REQUIRING REINFOMRCED CONCRETE JACKETING SHALL BE DUCTILE IRON PIPE CLASS 52 WITH DUCTILE IRON FITTINGS OR CONCRETE CYLINDER PIPE AND FITTINGS.
- 29. BOSSED TEES REQUIRED FOR ALL LATERALS AND ARV CONNECTIONS TO PVC
- 30. THE CONTRACTOR WILL BE REQUIRED TO CONDUCT A CROSS CONNECTION TEST BY CLOSING OFF MAIN CONTROL VALVE NEAR THE METER OF THE R-1 LINE WHILE FULLY ACTIVATING THE IRRIGATION SYSTEM AFTER ACTIVATING THE POTABLE WATER SYSTEM TO CHECK IF THE POTABLE SYSTEM IS SUPPLYING THE IRRIGATION SYSTEM.
- 31. ALL NON-POTABLE WATER LINES (RW-1 OR RECLAIMED WATER) WILL BE CONSTRUCTED OF PURPLE PVC PIPE STAMPED WITH: "CAUTION: RECYCLED WATER - DO NOT DRINK." ALL NON-POTABLE WATER VALVE COVERS WILL BE LABELED "IRRIGATION"

SEWER NOTES

- 1. ALL SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY'S STANDARD SPECIFICATIONS, SEPTEMBER 1986, THE DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS, SEPTEMBER. 1984, CURRENT CITY PRACTICES AND REVISED ORDINANCES OF HONOLULU, 1990, AS AMENDED, AND THE DESIGN STANDARDS OF THE DEPARTMENT OF WASTEWATER MANAGEMENT VOL. 1, JULY 1993.
- 2. THE CONTRACTOR SHALL NOTIFY THE INSPECTION SECTION, WASTEWATER BRANCH, DDC, AT 768-8788 OR 768-8770 TO ARRANGE FOR INSPECTION SERVICES AND SUBMIT FOUR (4) SETS OF APPROVED CONSTRUCTION PLANS SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF SEWER WORK. THE CONTRACTOR SHALL PAY FOR ALL INSPECTION COSTS.
- 3. THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE CONTRACTING OFFICER FROM HIS RESEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE FACILITIES, INCLUDING AND AFFECTING SEWER LINES. IN THE PRESENCE OF THE WASTEWATER INSPECTOR AND EXERCISE PROPER CARE IN EXCAVATING THE AREA. THE CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL DAMAGED LITILITIES
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUOUS 4 SEWER SERVICE TO ALL AFFECTED AREAS DURING CONSTRUCTION.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SEWAGE SPILLS CAUSED DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE STATE DEPARTMENT OF HEALTH AND UTILIZE APPROPRIATE SAMPLING AND ANALYZING PROCEDURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PUBLIC NOTIFICATIONS AND PRESS RELEASES.
- 6. SEE "ADJUSTMENT TO EXISTING UTILITIES NOTE," THIS SHEET.
- 7. FOR SEWER MANHOLE ADJUSTMENTS UPWARD LESS THAN 3", SEE STD. DETAIL S-25. FOR SMH ADJUSTMENTS UPWARD GREATER THAN 3" OR FOR ANY ADJUSTMENTS DOWNWARD, RECONSTRUCT SMH TOP FROM BELOW THE CONE SECTION
- 8. CONFINED SPACE

FOR ENTRY BY CITY PERSONNEL, INCLUDING INSPECTORS, INTO A PERMIT REQUIRED CONFINED SPACE AS DEFINED IN 29 CFR PART 1910.146(b), THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING

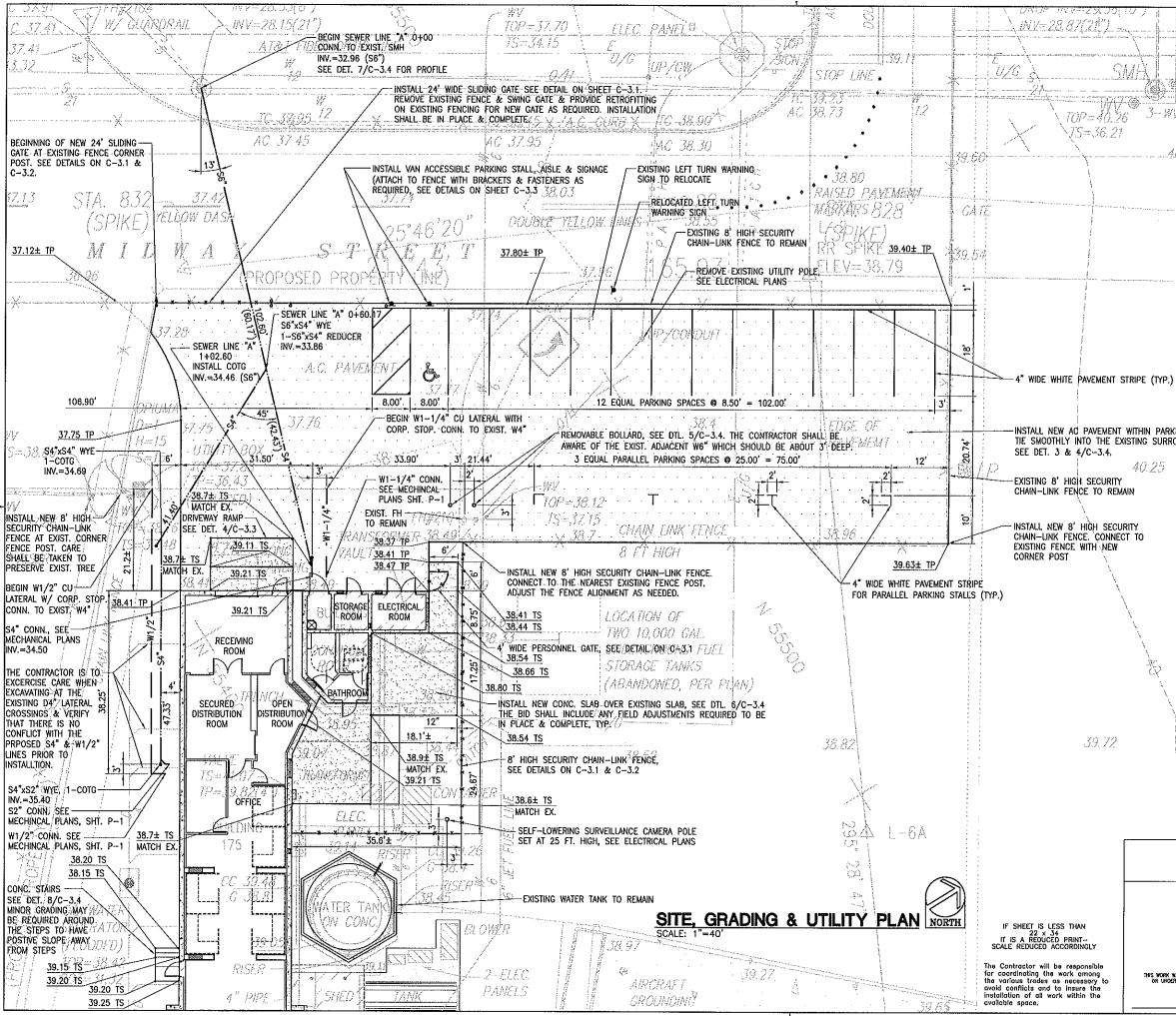
- ALL SAFETY EQUIPMENT REQUIRED BY THE CONFINED SPACE REGULATIONS APPLICABLE TO ALL PARTIES OTHER THAN THE CONSTRUCTION INDUSTRY, TO INCLUDE, BUT NOT LIMITED TO THE FOLLOWING:
 - FULL BODY HARNESSES FOR UP TO TWO PERSONNEL LIFELINE AND ASSOCIATED CLIPS.
- INGRESS/EGRESS AND FALL PROTECTION EQUIPMENT TWO-WAY RADIOS (WALKIE-TALKIES) IF OUT OF LINE-OF-SIGHT, D
- EMERGENCY (ESCAPE) RESPIRATOR (10 MINUTE DURATION).
- CELLULAR TELEPHONE TO CALL FOR EMERGENCY ASSISTANCE.
- CONTINUOUS GAS DETECTOR (CALIBRATED) TO MEASURE OXYGEN, G. HYDROGEN SULFIDE, CARBON MONOXIDE AND FLAMMABLES (CAPABLE OF MONITORING AT A DISTANCE AT LEAST 20-FEET AWAY),
- н PERSONAL MULTI-GAS DETECTOR TO BE CARRIED BY INSPECTOR,
- 2. CONTINUOUS FORCED AIR VENTILATION ADEQUATE TO PROVIDE SAFE ENTRY CONDITIONS.
- 3. ONE ATTENDANT/RESCUE PERSONNEL TOPSIDE (TWO, IF CONDITIONS WARRANT IT).

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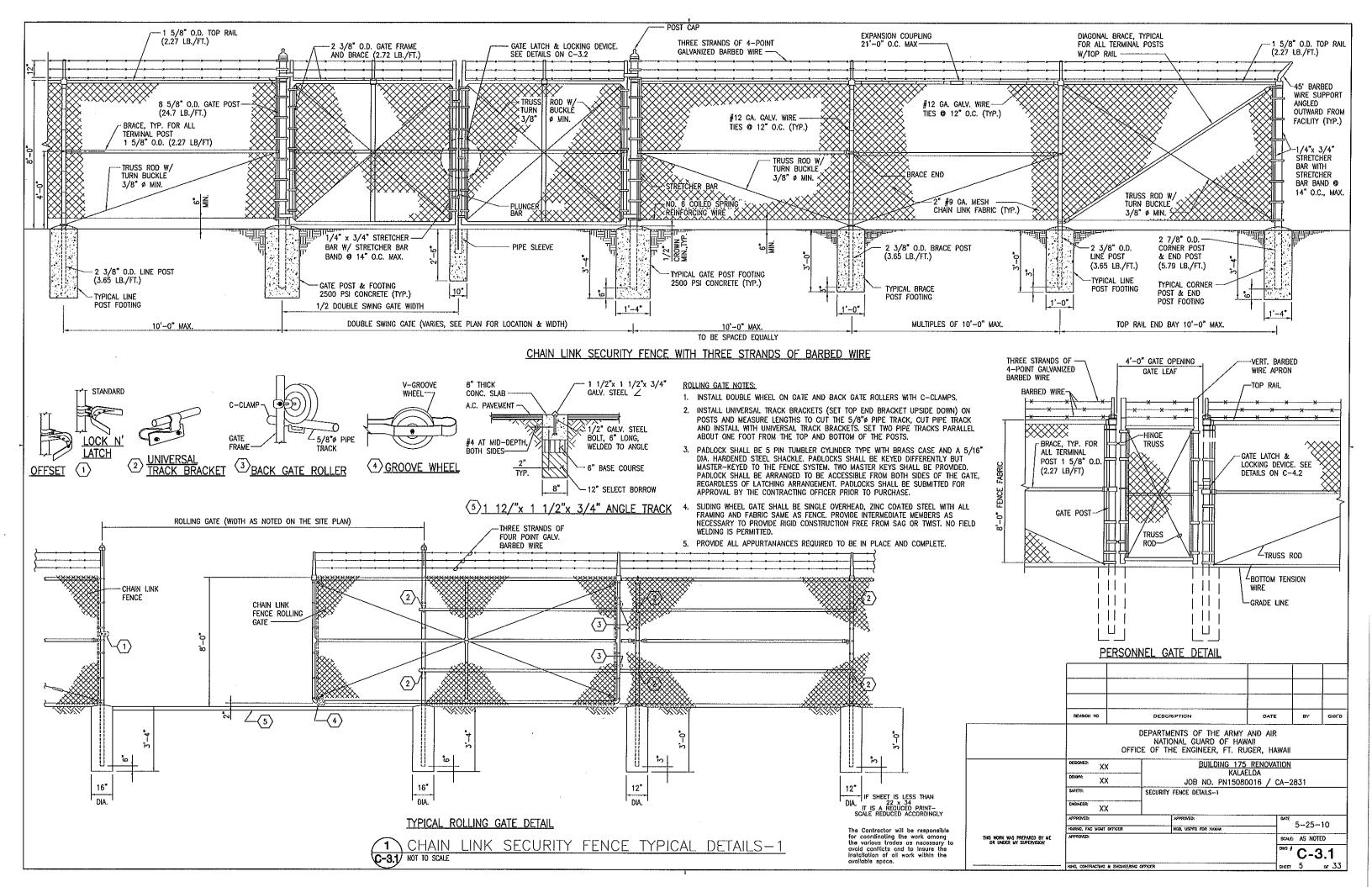


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The Contractor will be responsible for coordinating the work among the various trades as necessary to avoid conflicts and to insure the installation of all work within the ovallable space.

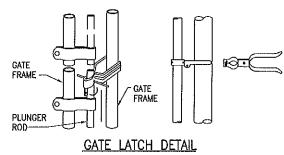


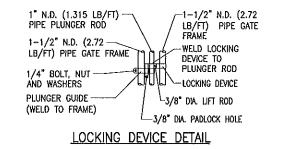
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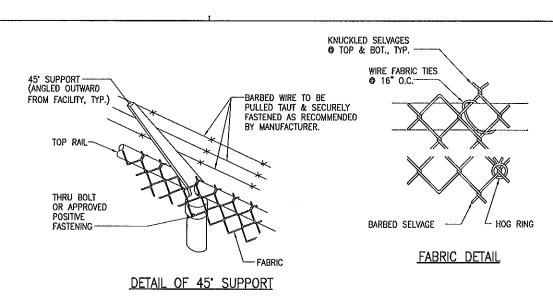


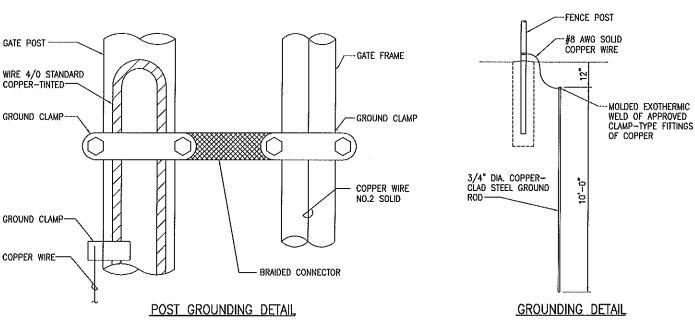
FENCING NOTES:

- 1. ALL PIPE AND POST SIZES ARE NOMINAL DIAMETER (N.D.). GATE FRAMES, AND BRACES SHALL BE SCHEDULE 40 (STANDARD WEIGHT) PIPE.
- CHAIN LINK FABRIC, PIPES, FITTING, FASTENERS, TRUSS ROD, POSTS, HOG RINGS AND TENSION WIRE SHALL BE 2. HOT-DIP GALVANIZED.
- 3. CHAIN LINK FABRIC SHALL BE CONTINUOUS AND FASTENED TO END, SIDE FRAME PIPES, INTERMEDIATE, GATE AND CORNER POSTS BY TENSION BARS WITH TENSION BANDS EVENLY SPACED AT 15" O.C. (MAX.).
- WRE FASTENINGS SHALL BE NO. 12 GAUGE GALVANIZED THE 4. WRE.
- CHAIN LINK FABRIC SHALL BE FASTENED TO LINE POSTS 5. TOP AND BOTTOM FRAME PIPES WITH WIRE FASTENINGS EVENLY SPACED AT 12" O.C. (MAX.).
- 6. CHAIN LINK FABRIC SHALL BE FASTENED TO HORIZONTAL RAILS WITH WIRE FASTENINGS EVENLY SPACED AT 12" O.C. (MAX.)
- 7. ALL WIRE FASTENING ENDS SHALL BE WRAPPED AROUND CHAIN LINK A MINIMUM OF ONE COMPLETE TURN. (HOOKING OF WIRE ENDS SHALL NOT BE PERMITTED)
- CHAIN LINK FABRIC SHALL BE FASTENED TO TRUSS ROD 8. WITH NO. 9 GAUGE HOG RINGS AT 12" O.C.
- NO SPLICING SHALL BE ALLOWED ON ALL STRAIGHT-RUN 9. PIPES.
- TOP AND BOTTOM SELVAGES OF CHAIN LINK FABRIC SHALL 10. BE KNUCKLED.
- 11. INSTALL INTERMEDIATE POSTS AT 200' MAX._INTERVALS.
- ALL GATES SHALL HAVE ACCESSIBLE MARDWARE FOR THE 12, LOCK AND CATCH ASSEMBLIES.
- ALL FENCE POSTS SHALL BE INSTALLED EVENLY SPACED. 13.
- ONE FENCE POSTS SHALL BE GROUNDED AS SHOWN ON 14. THE GROUNDING DETAIL ON SHT. THIS SHEET.
- 15. AFTER INSTALLATION, ALL BOLT ENDS SHALL BE CUT FLUSH WITH THE NUTS AND GROUND SMOOTH.
- GATE FRAME SHALL BE OF WELDED PIPE CONSTRUCTION. 16. ALL WELDING SHALL CONFORM TO THE SPECIFICATIONS OF THE AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODF".
- 17. FOR ALL WELDED CONNECTIONS: CORNERS SHALL BE MITERED AND ALL PIPE BRACES PROPERLY COPED.
- 18. ALL WELDED CONNECTIONS SHALL BE PAINTED WITH TWO COATS OF Z.R.C. COLD GALVANIZING COMPOUND.
- GATE HINGES SHALL BE TACK WELDED TO GATE POSTS 19. AND FRAMES
- THE FENCE FABRIC SHALL BE SECURED TO THE VERTICAL POST AT MAXIMUM 3-FOOT INTERVALS ALONG THE 20. HEIGHT WITH POWDER ACTUATED STUDS IN ADDITION TO THE TYPICAL FASTENERS AS NOTED IN THE SPECIFICATIONS.
- 21. PAD LOCKS FOR ALL GATES SHALL BE FURNISHED BY THE CONTRACTER. PADLOCKS ARE TO BE OF GOOD QUALITY, HEAVY DUTY AND WEATHER RESISTANT AND PROVIDED FOR ALL GATES. ALL PADLOCKS SHALL BE KEYED ALIKE AND A MINIMUM OF TWO (2) KEYS PER LOCK SHALL BE PROVIDED. PADLOCKS SHALL BE SUBMITTED FOR APPROVAL BY THE CONTRACTING OFFICER PRIOR TO PURCHASE.
- 22. SWING GATES SHALL BE CONSTRUCTED TO OPEN 180'±.
- 23. POST IN CONCRETE FOOTING TO HAVE HEAVY COAT OF BITUMINOUS MASTIC.
- DOUBLE SWING GATE SHALL BE PROVIDED WITH TUBULAR 24. PLUNGER BAR, 1 LOCK KEEPER AND GUIDE, 2 LATCH FORKS, 2 FORK CATHES, 1 CATCH FOR PLUNGER BAR AND 2 GATE STOPS
- 25. FENCE INSTALLATION SHALL BE IN PLACE AND COMPLETE. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION.

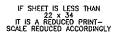


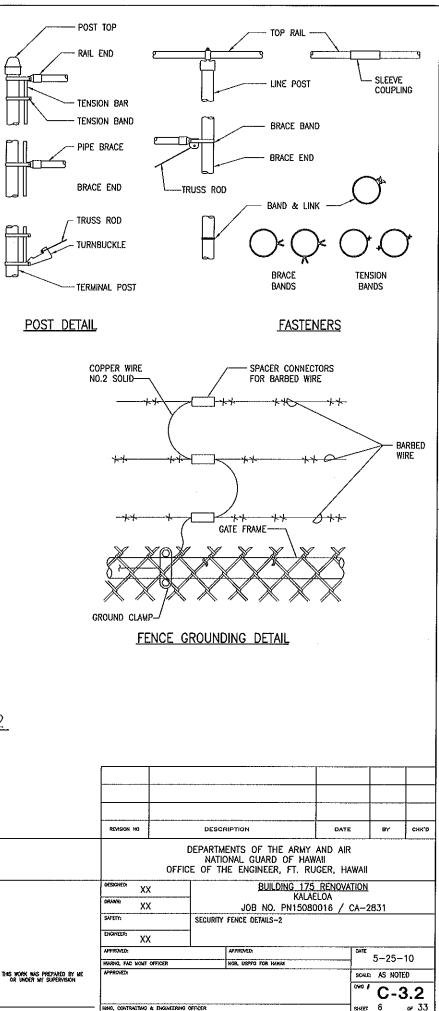


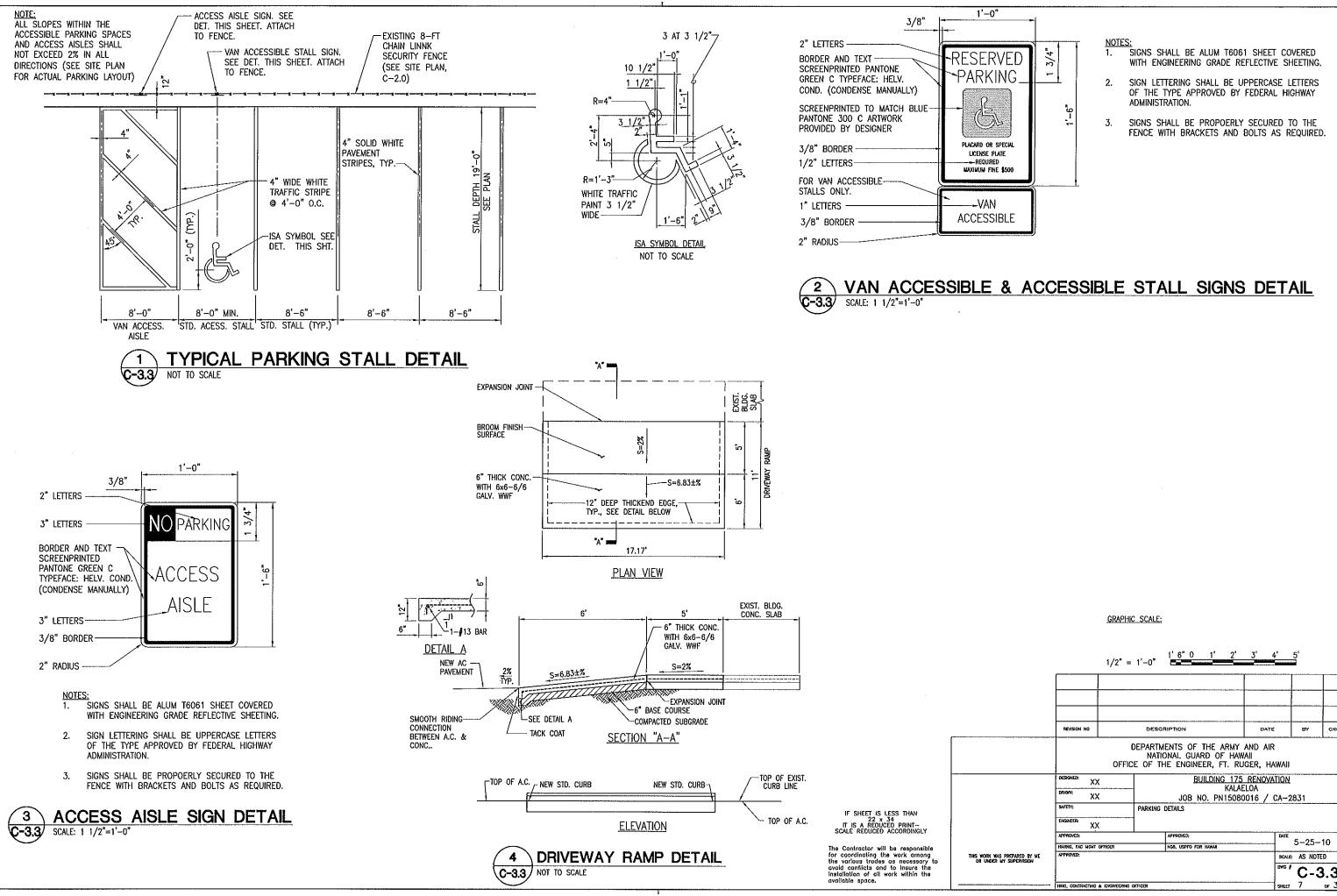




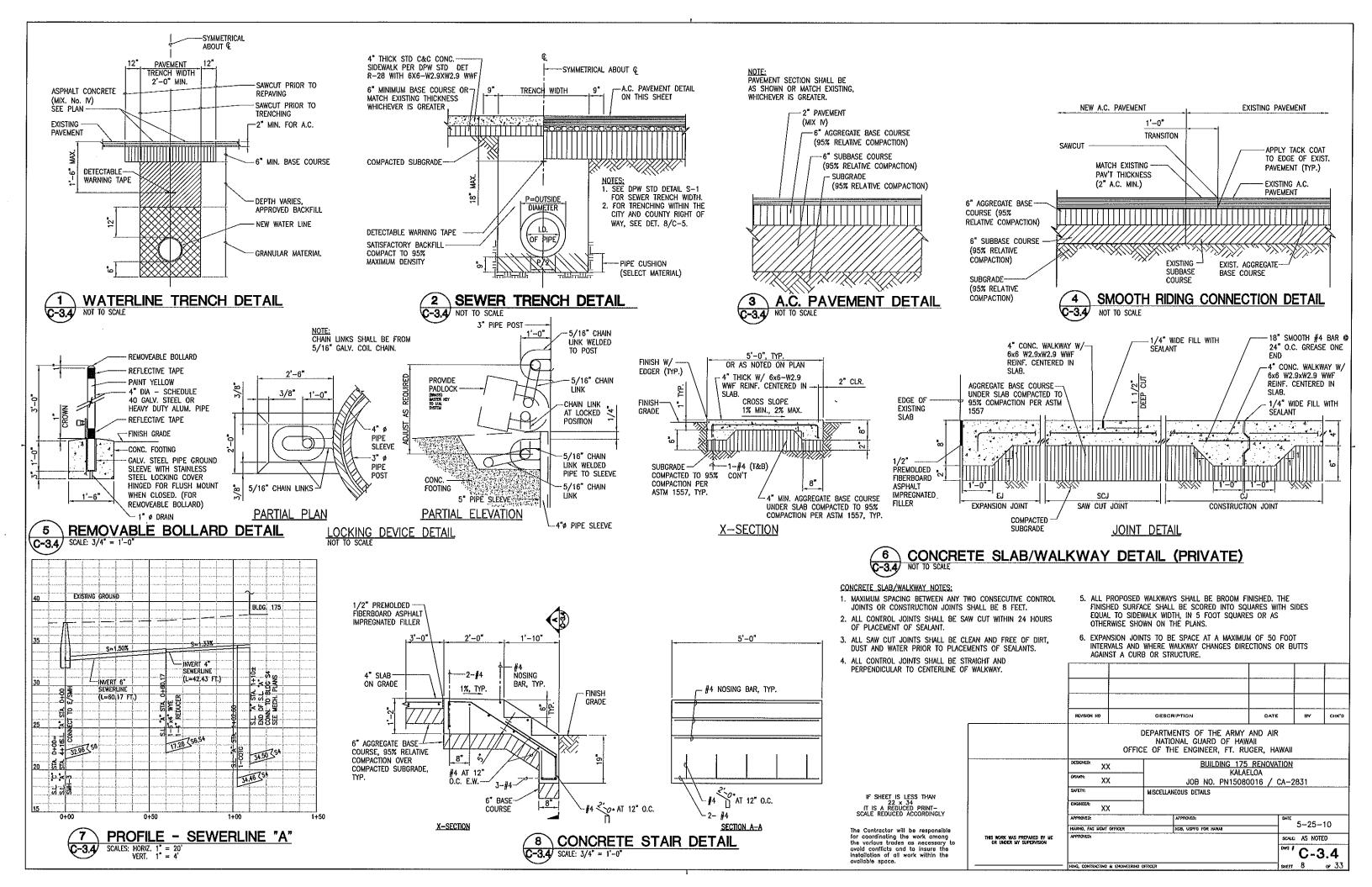


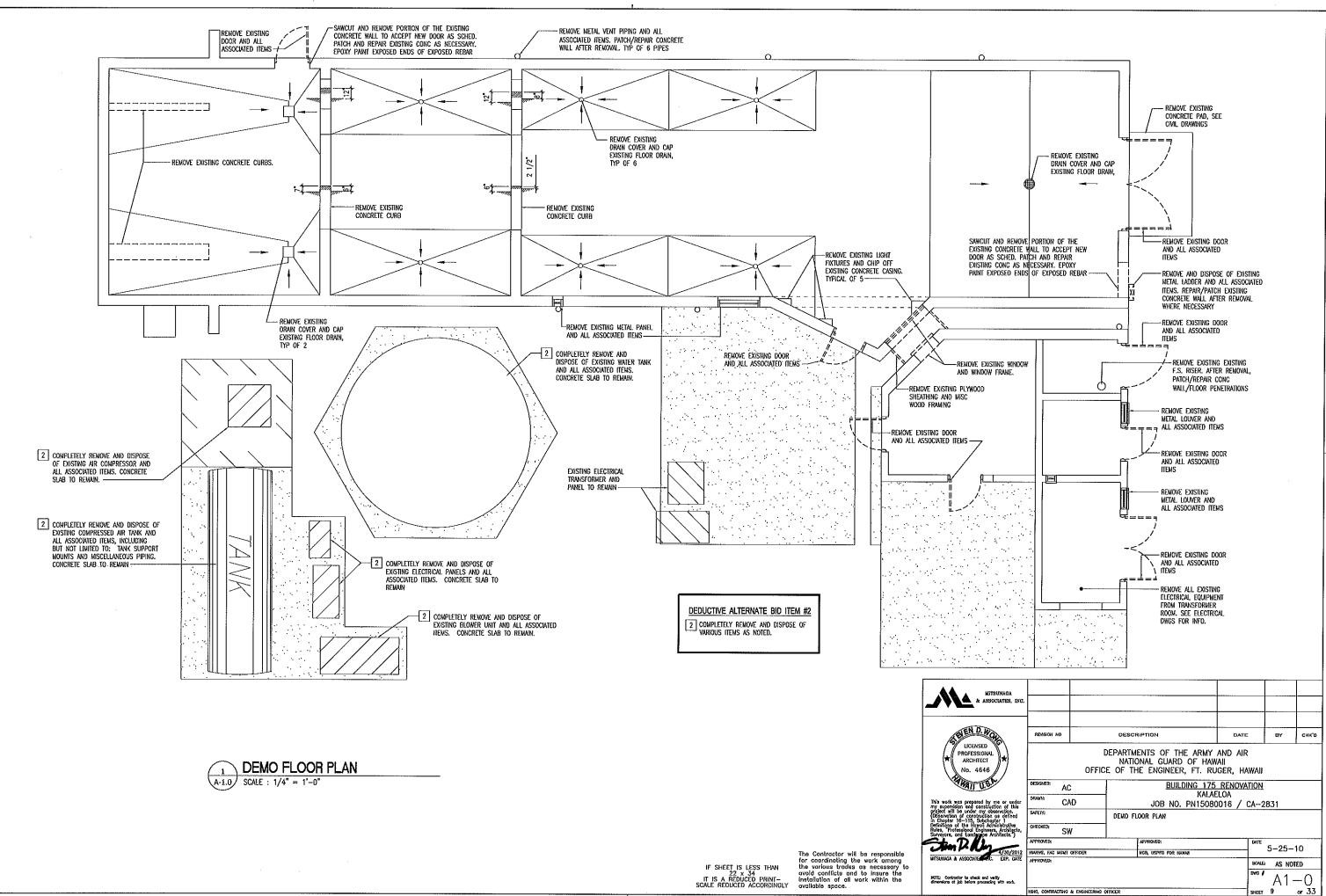


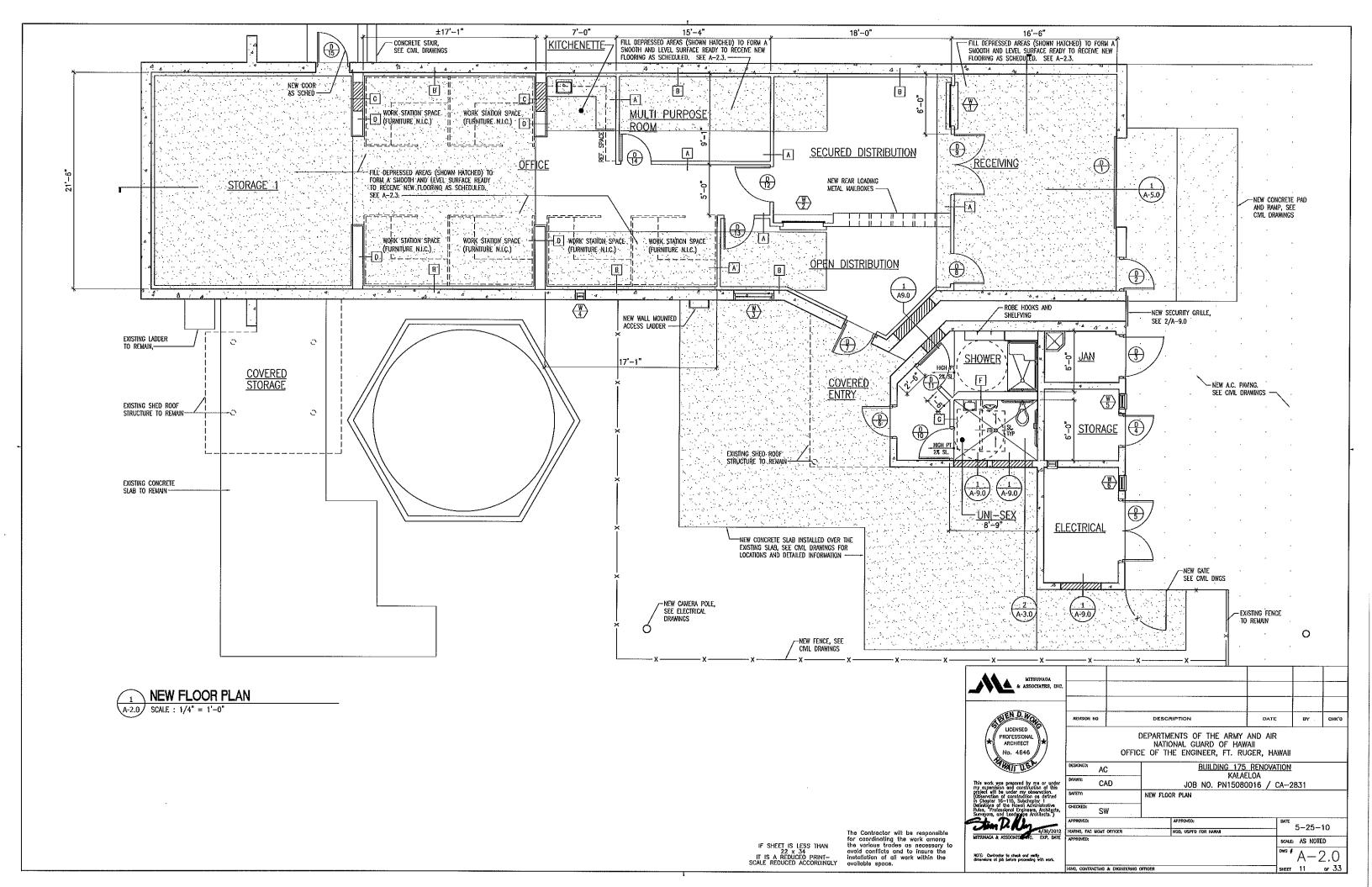


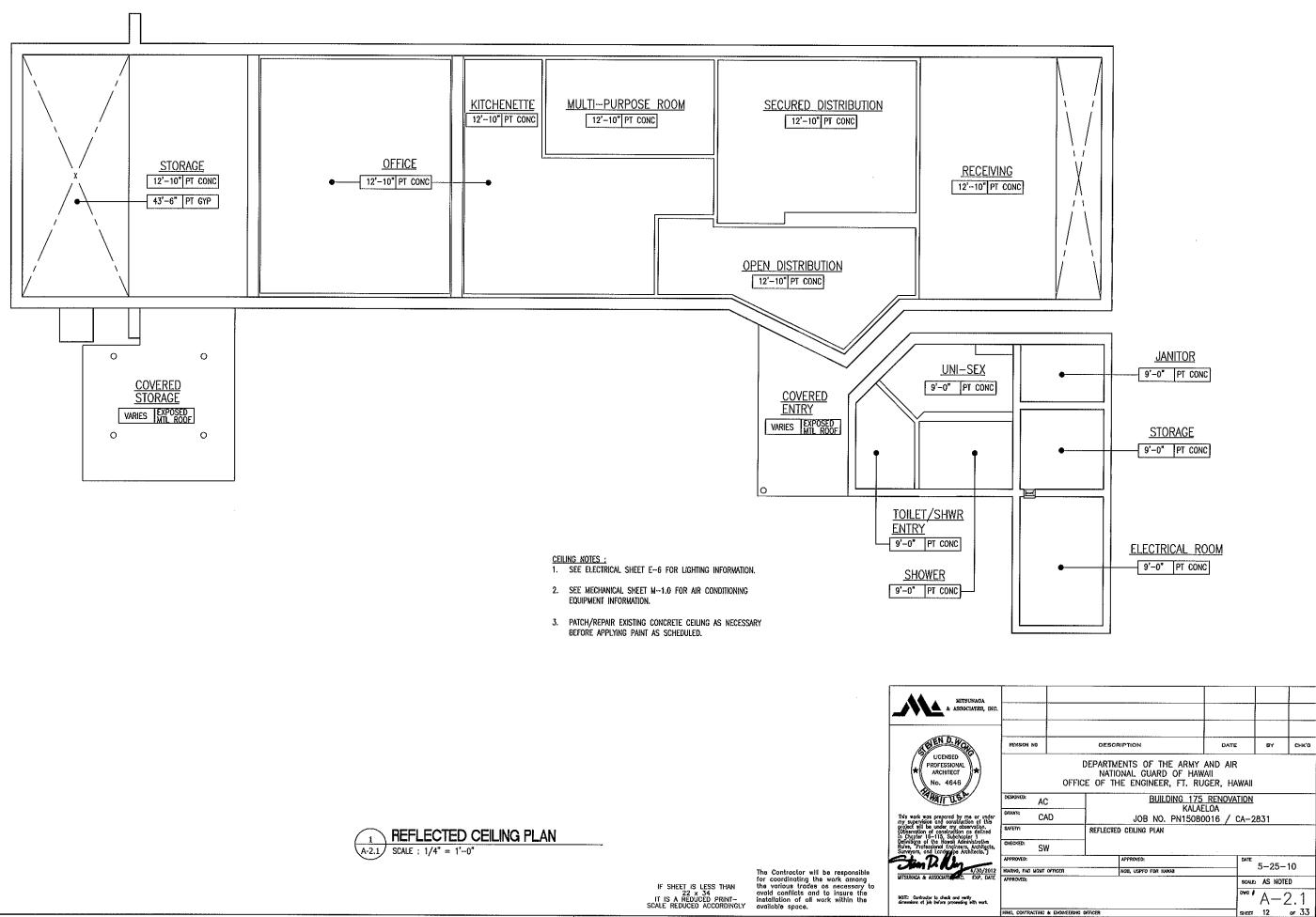


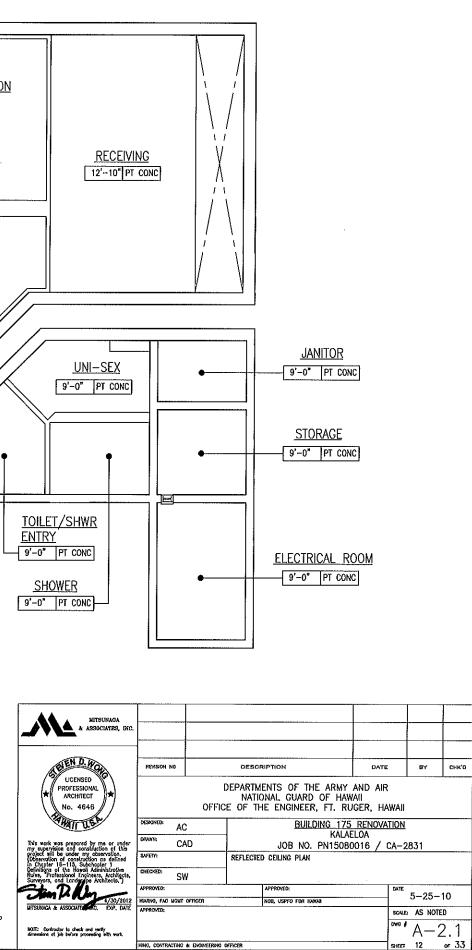
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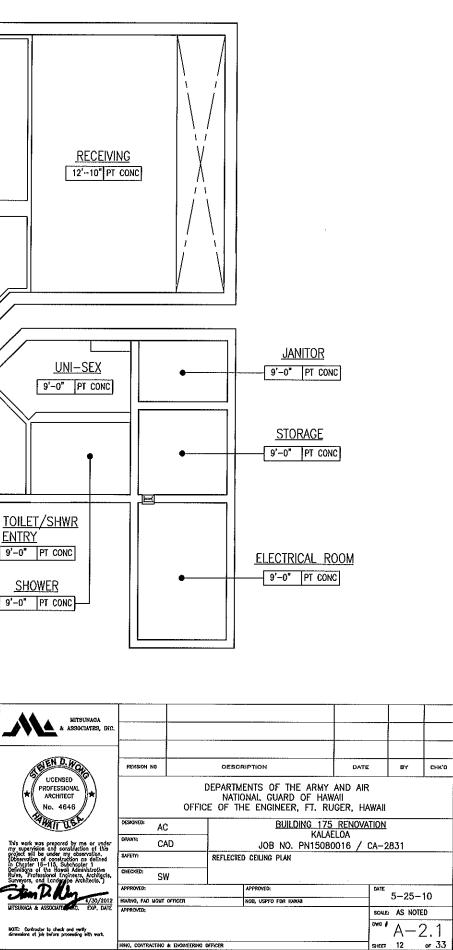


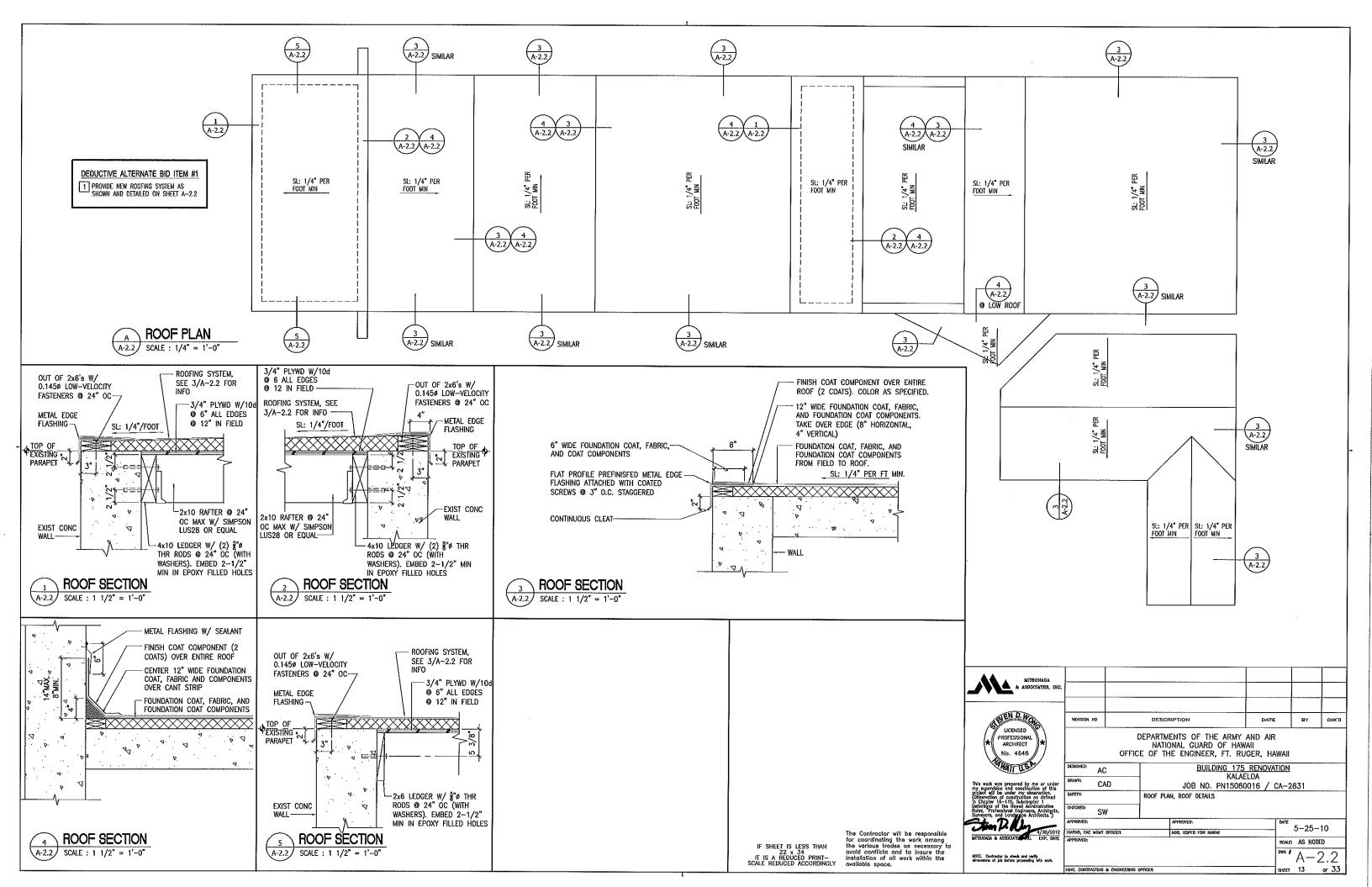


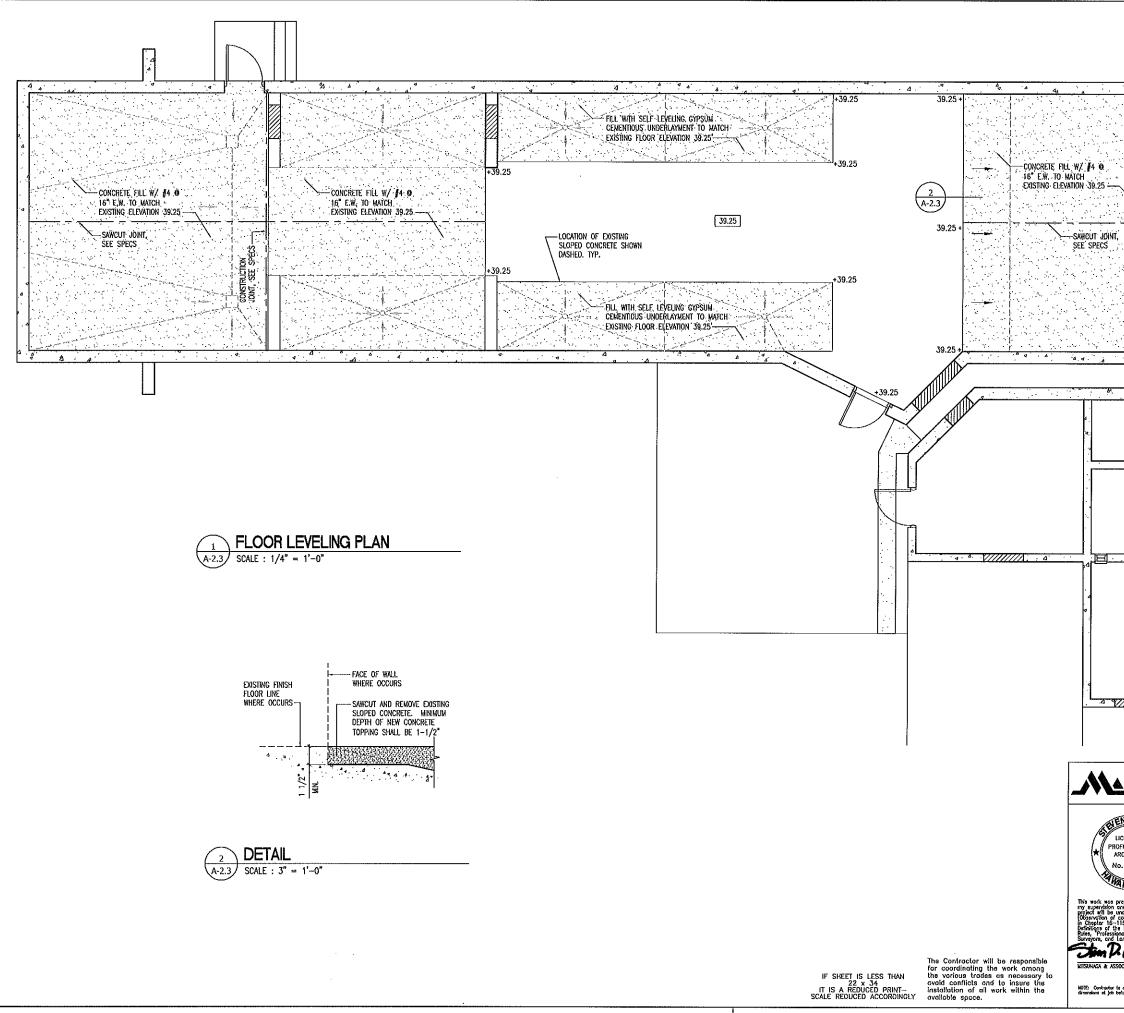




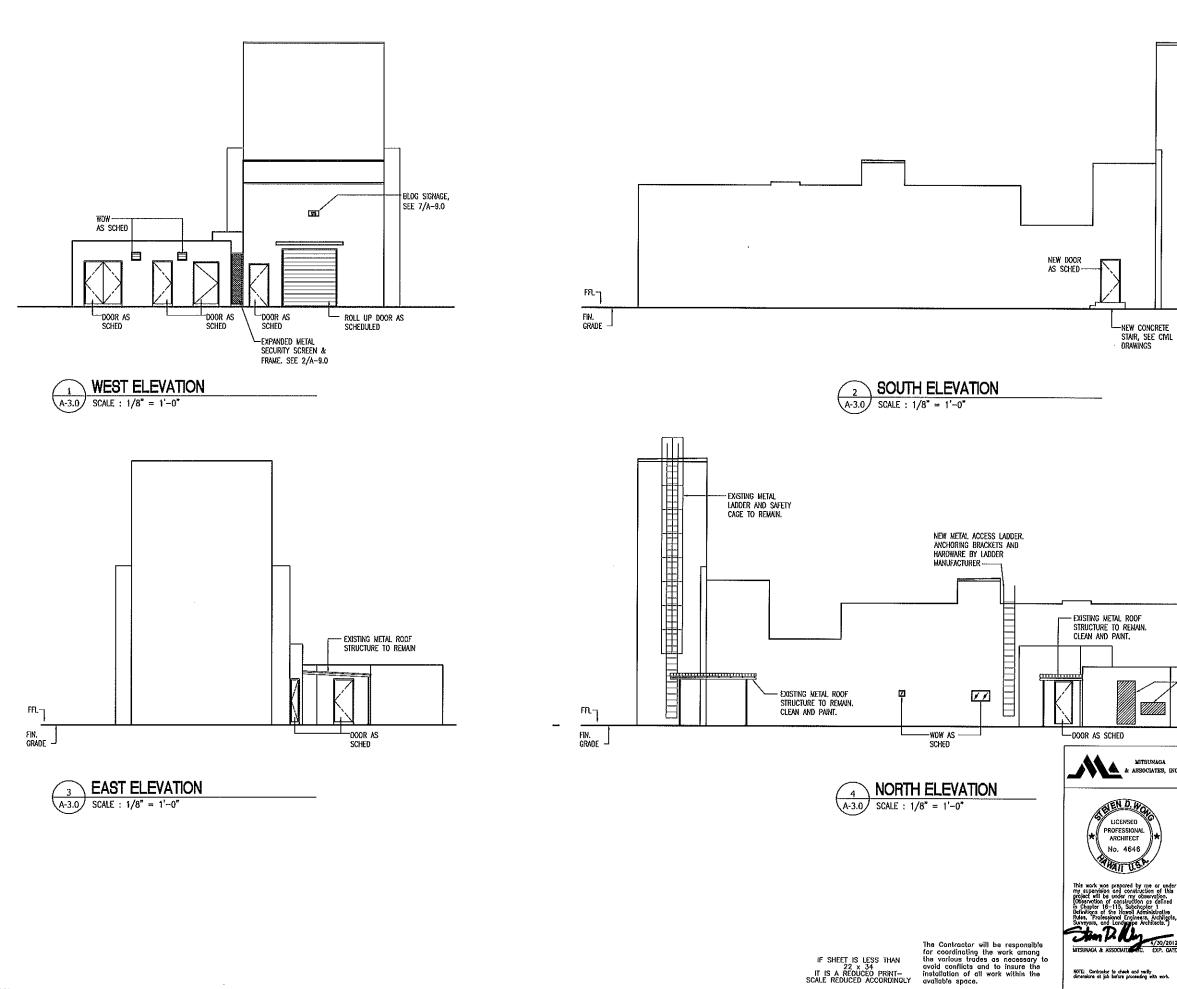








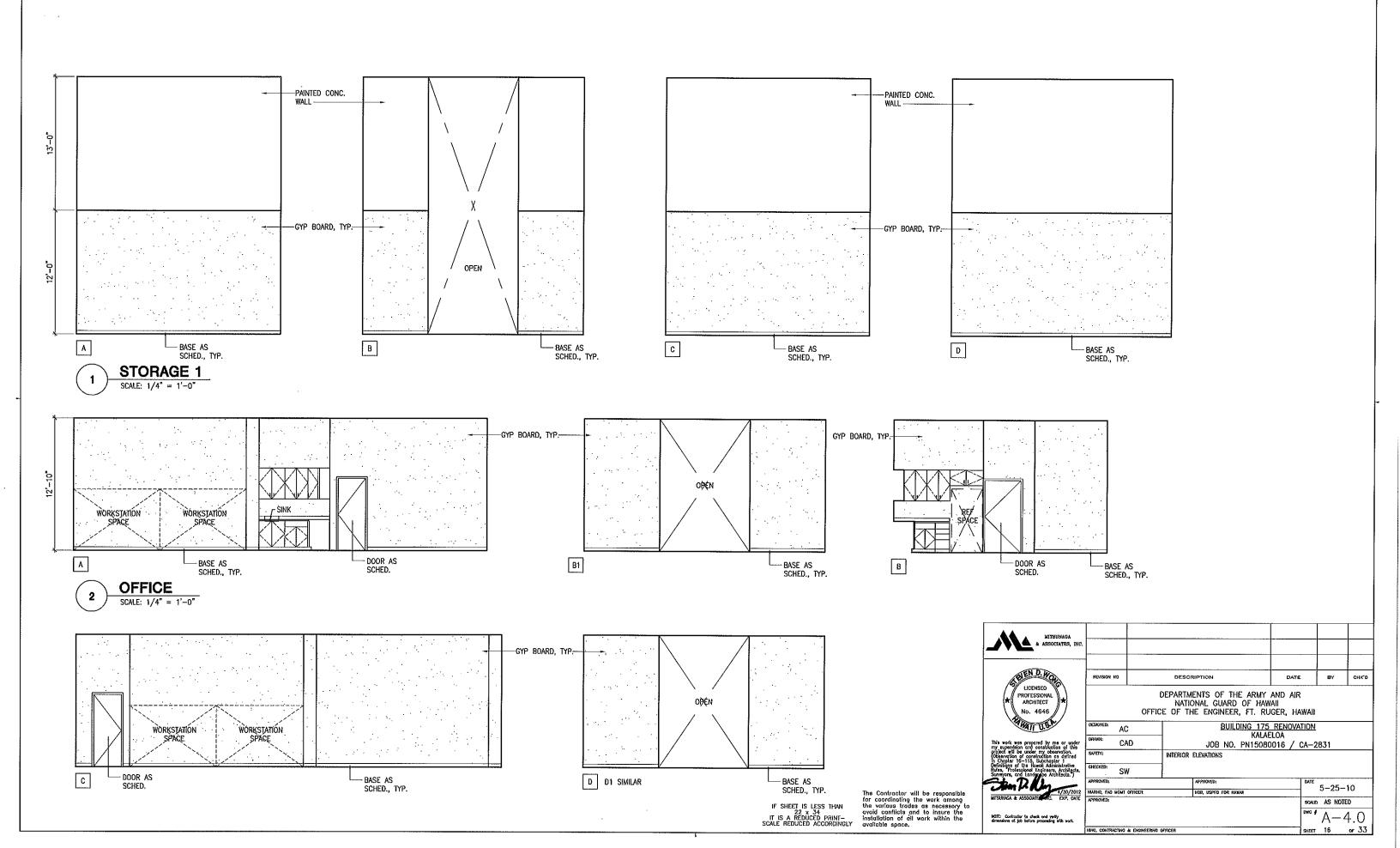
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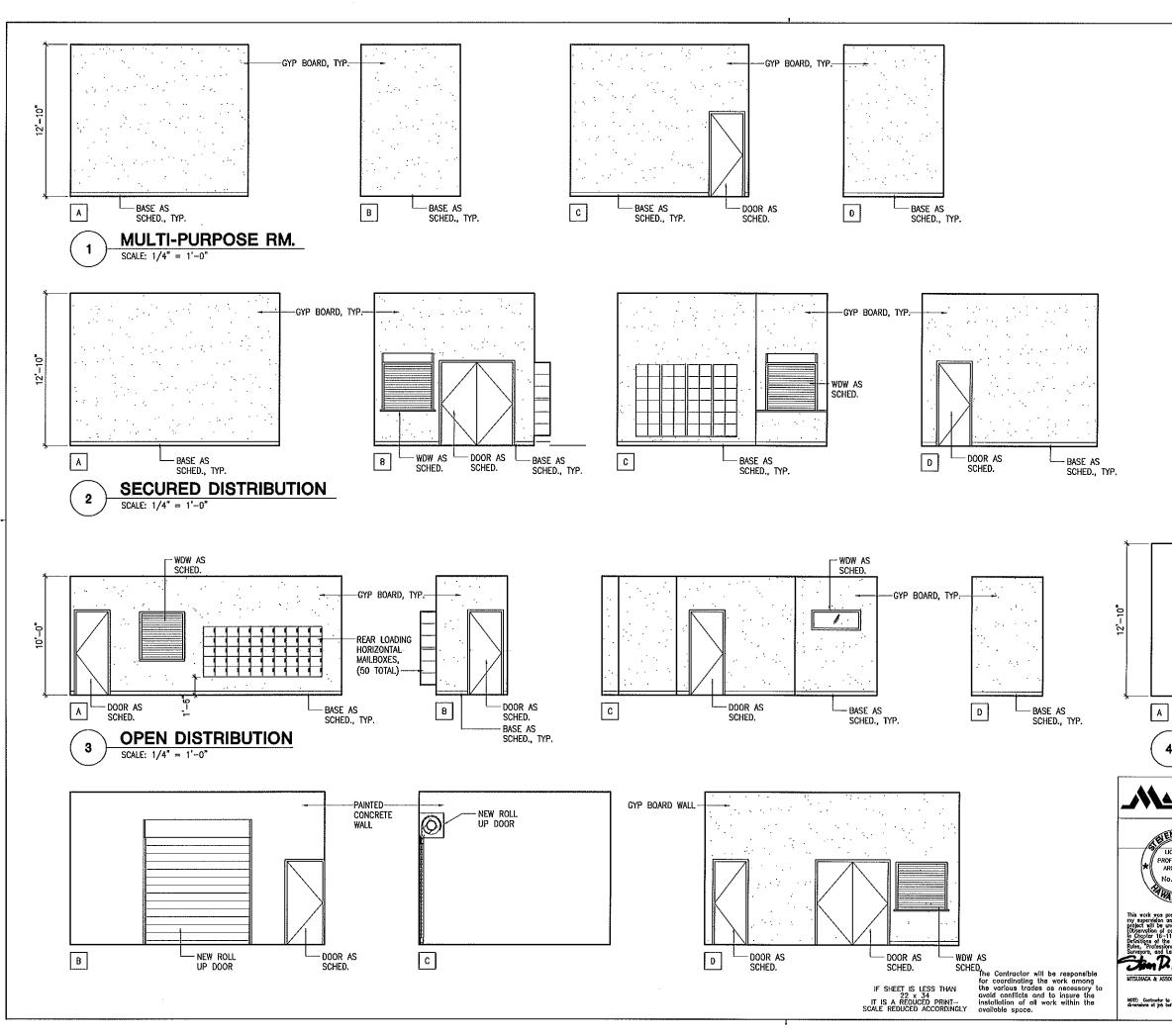


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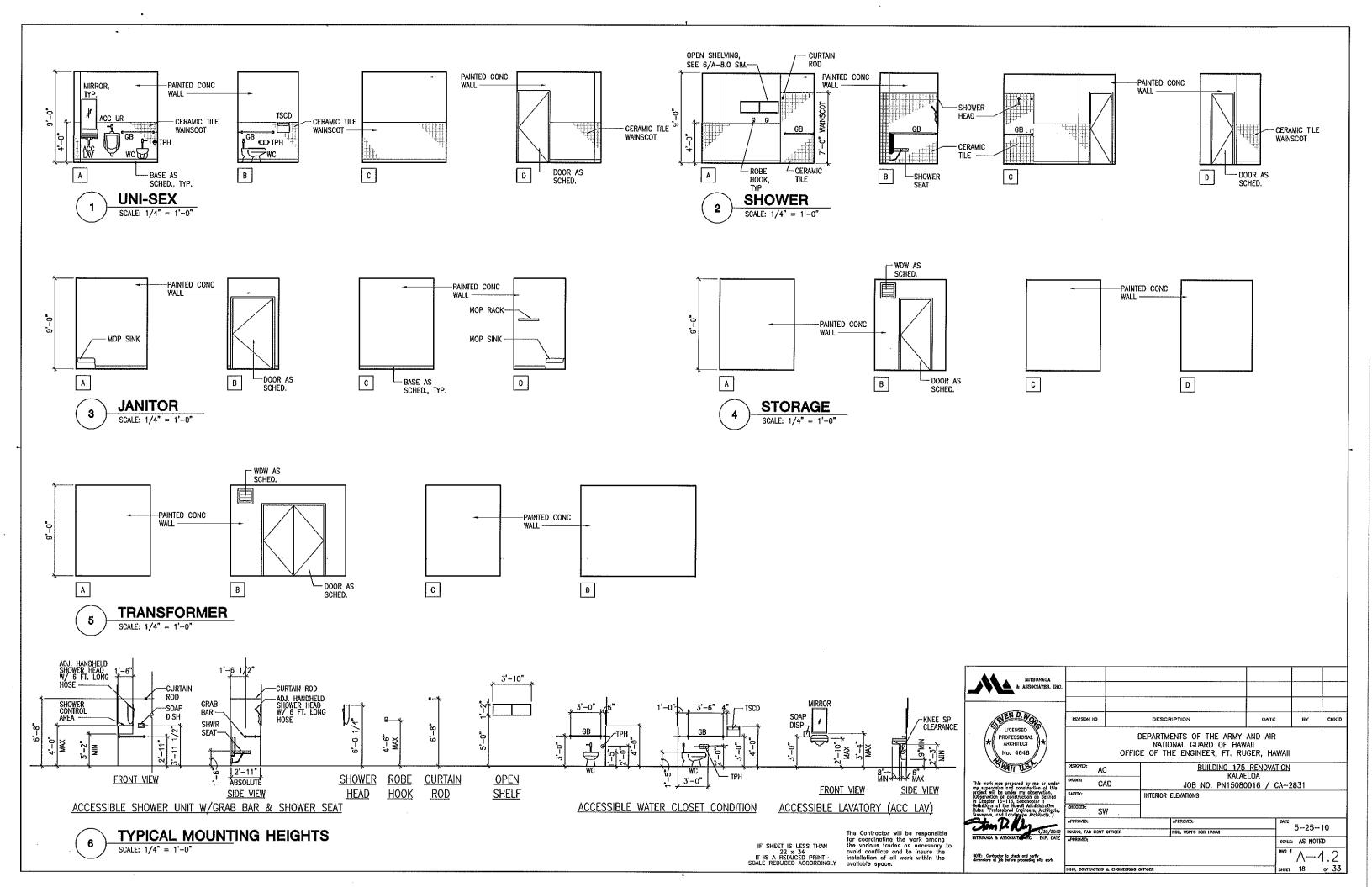
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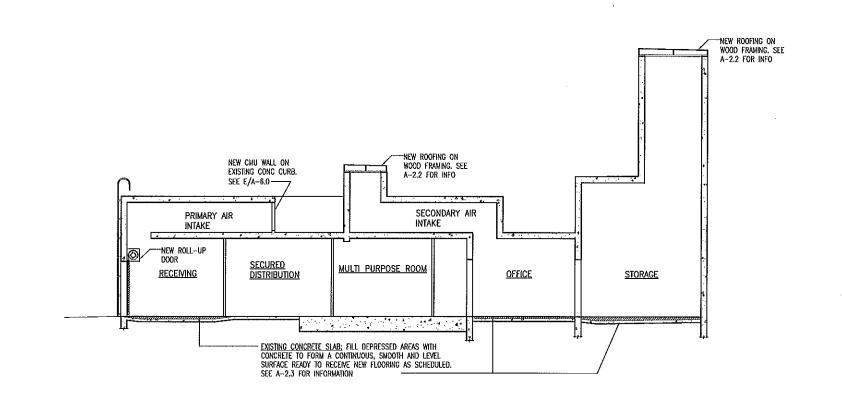
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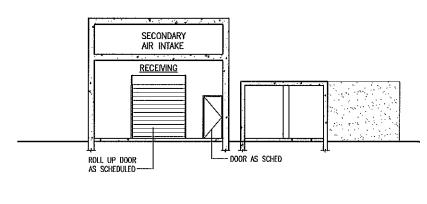


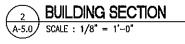
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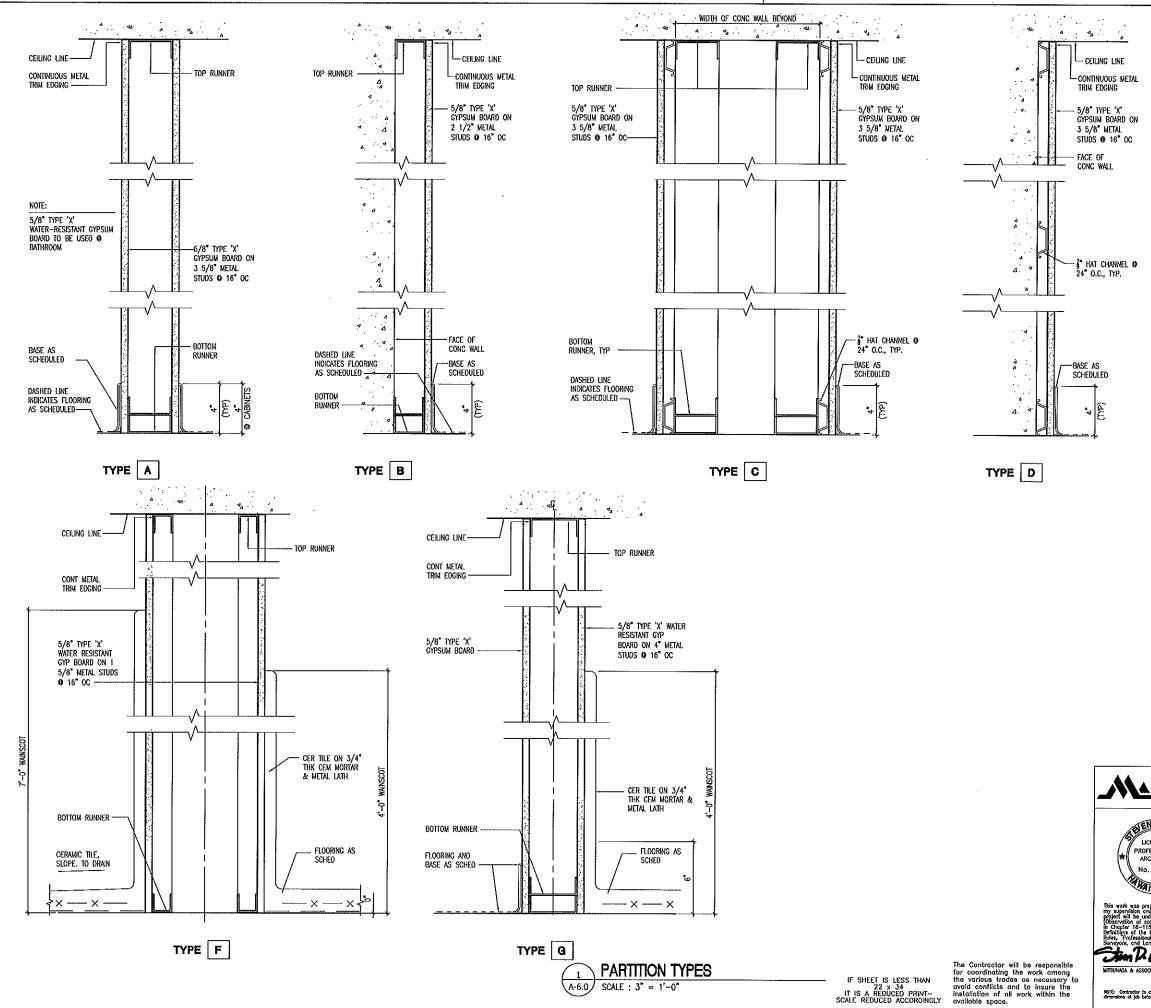




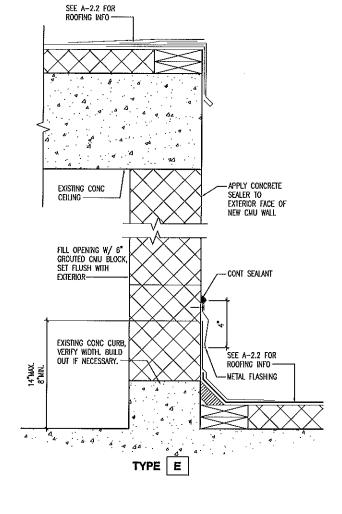


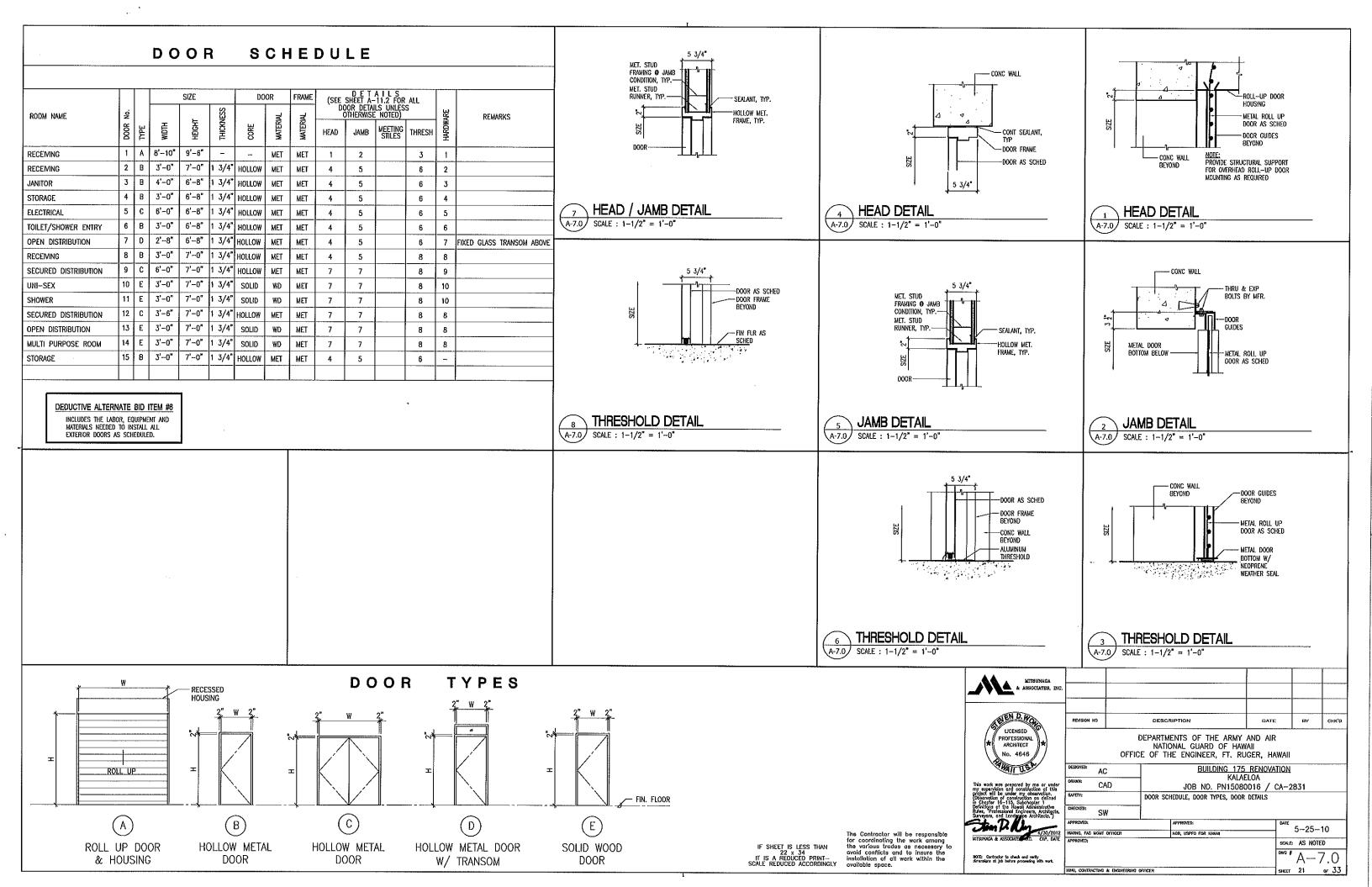


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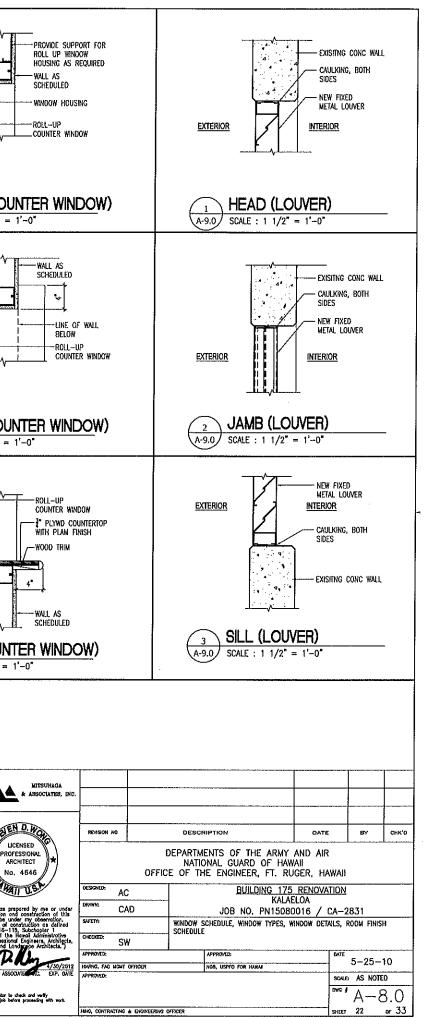
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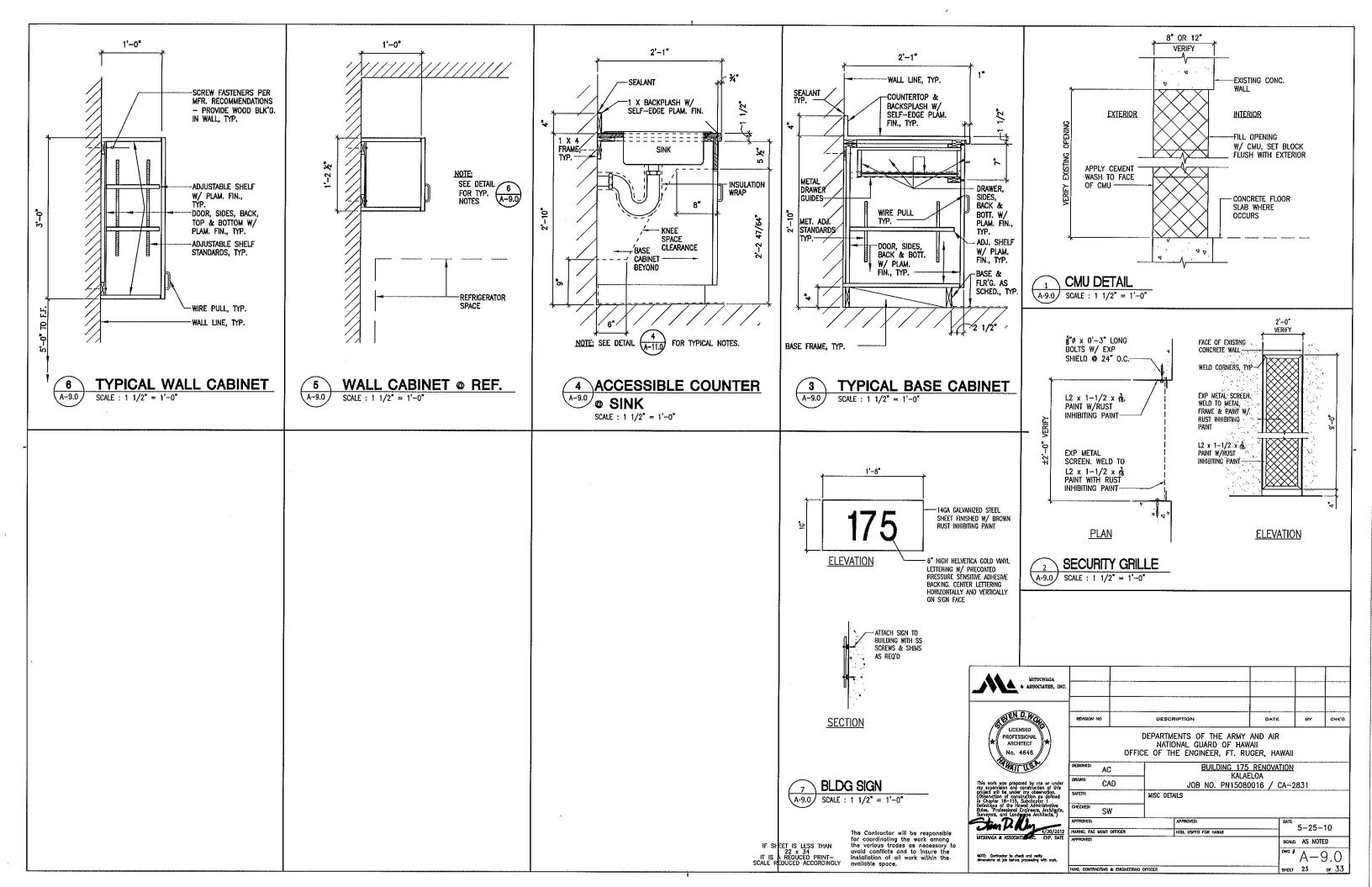


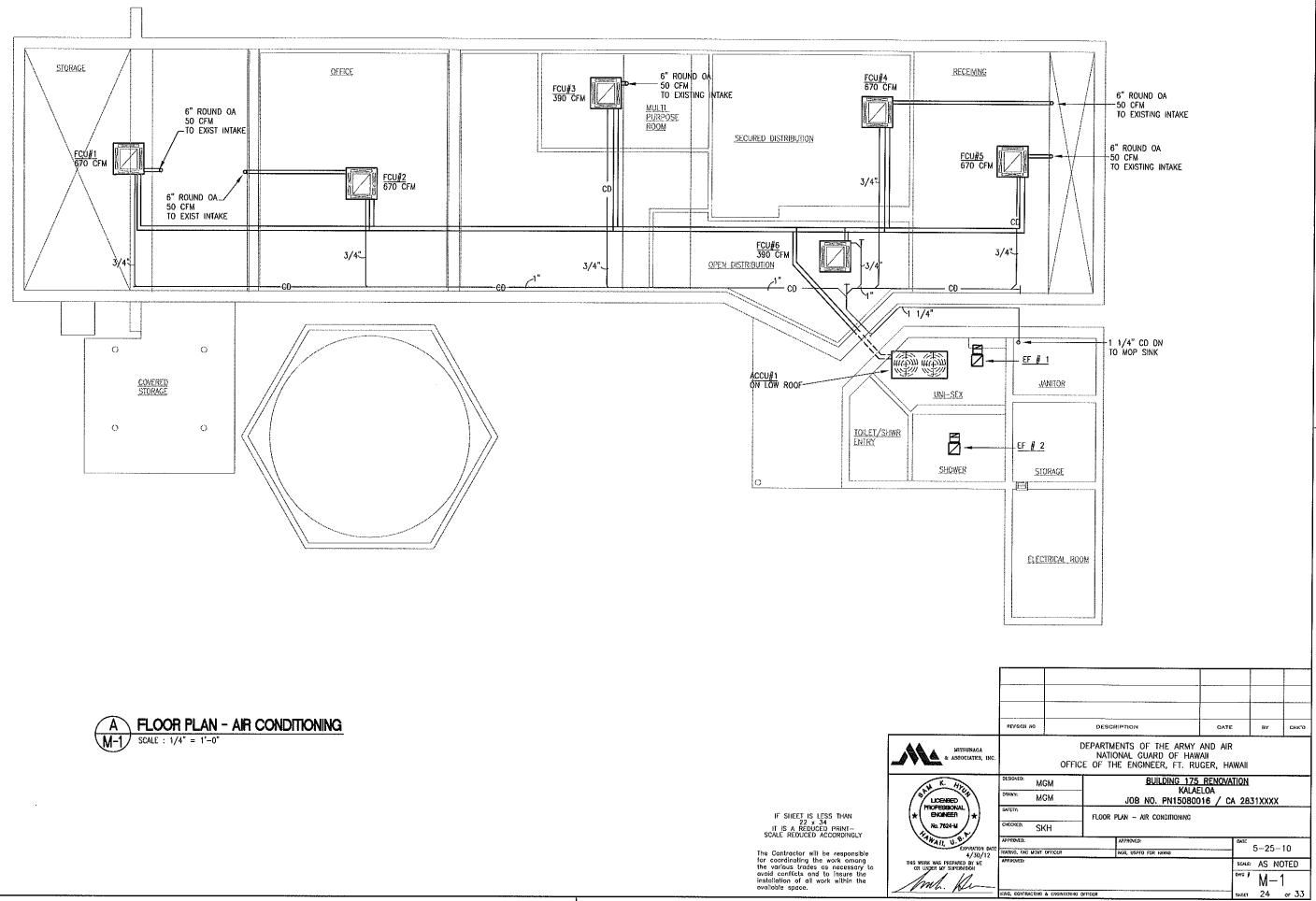


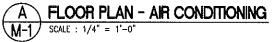
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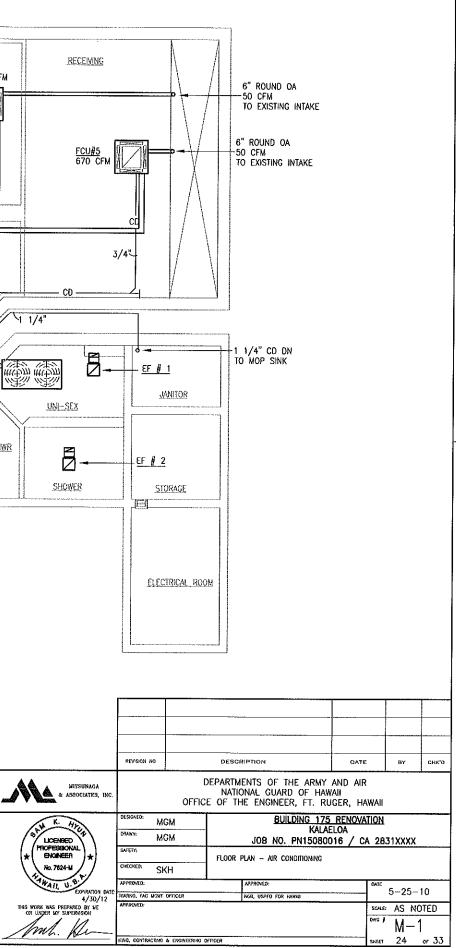
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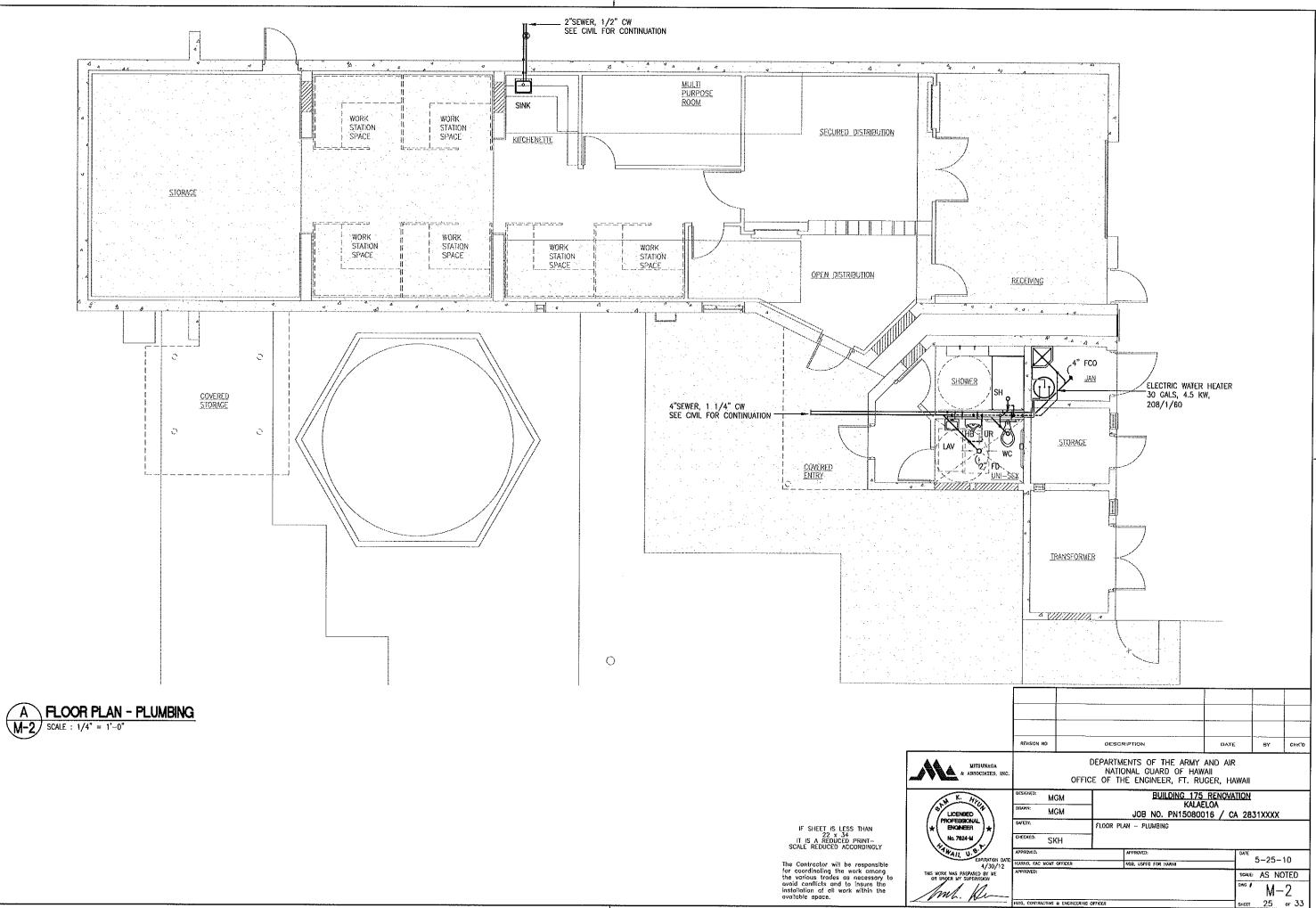
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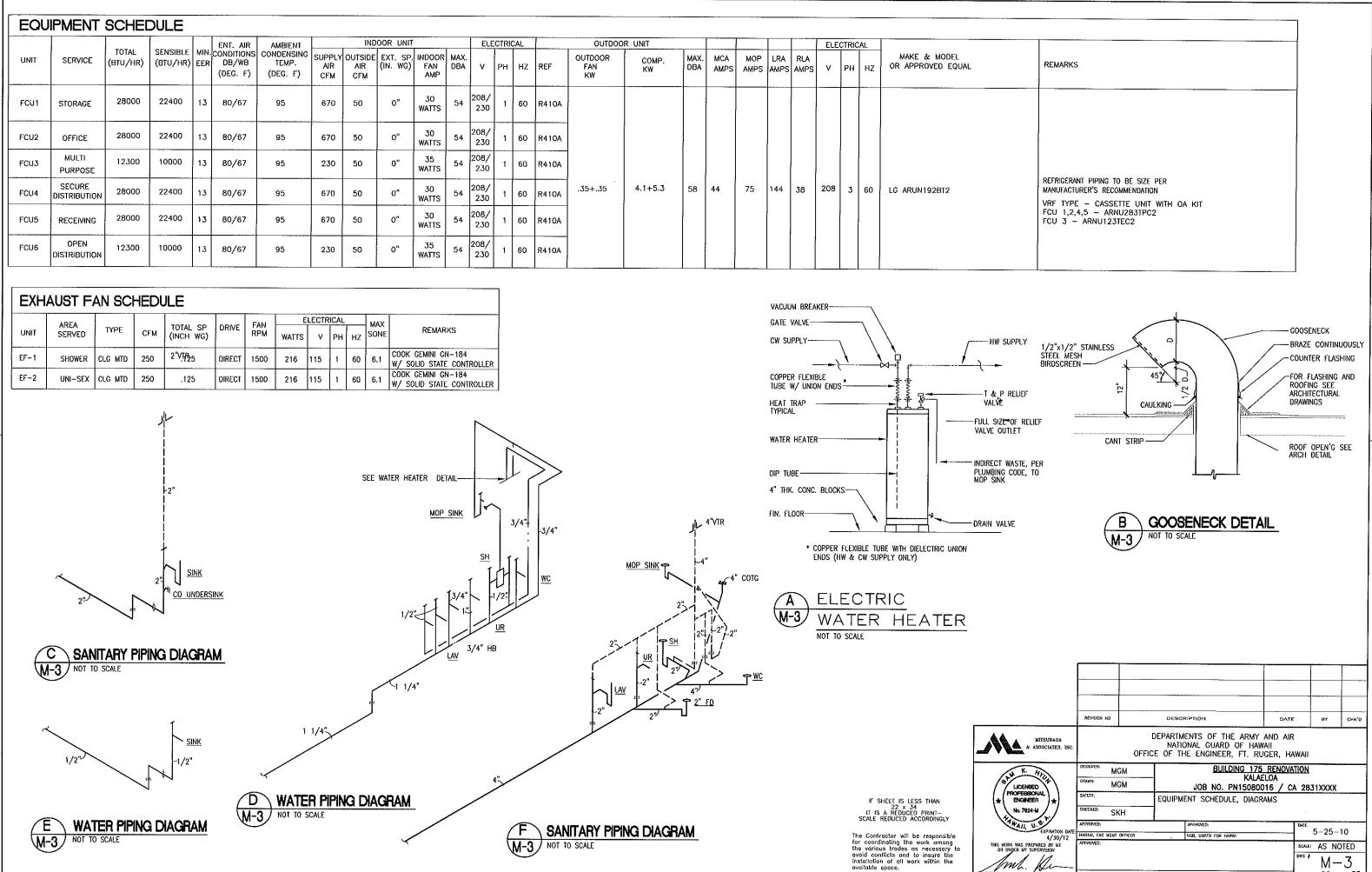
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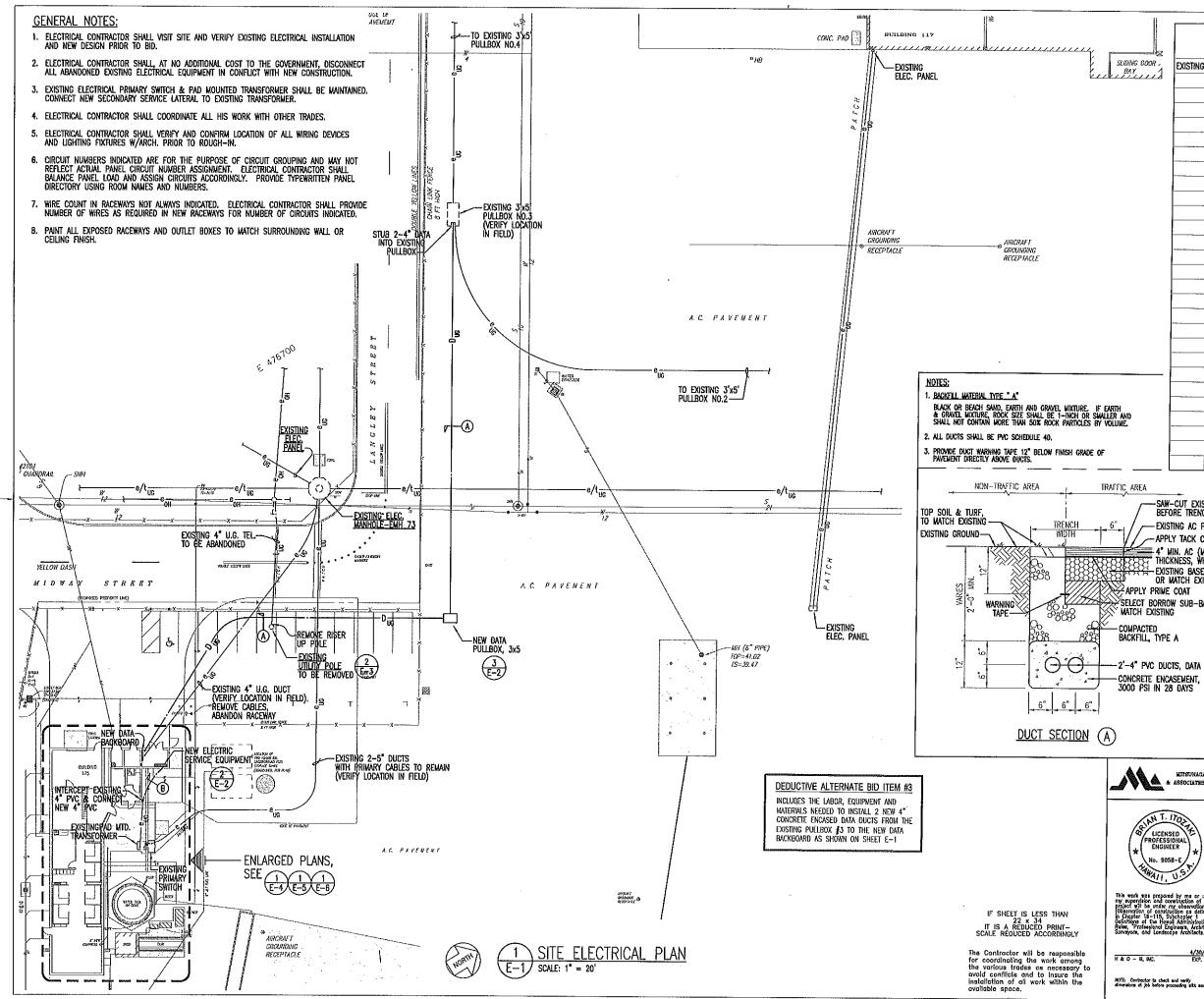




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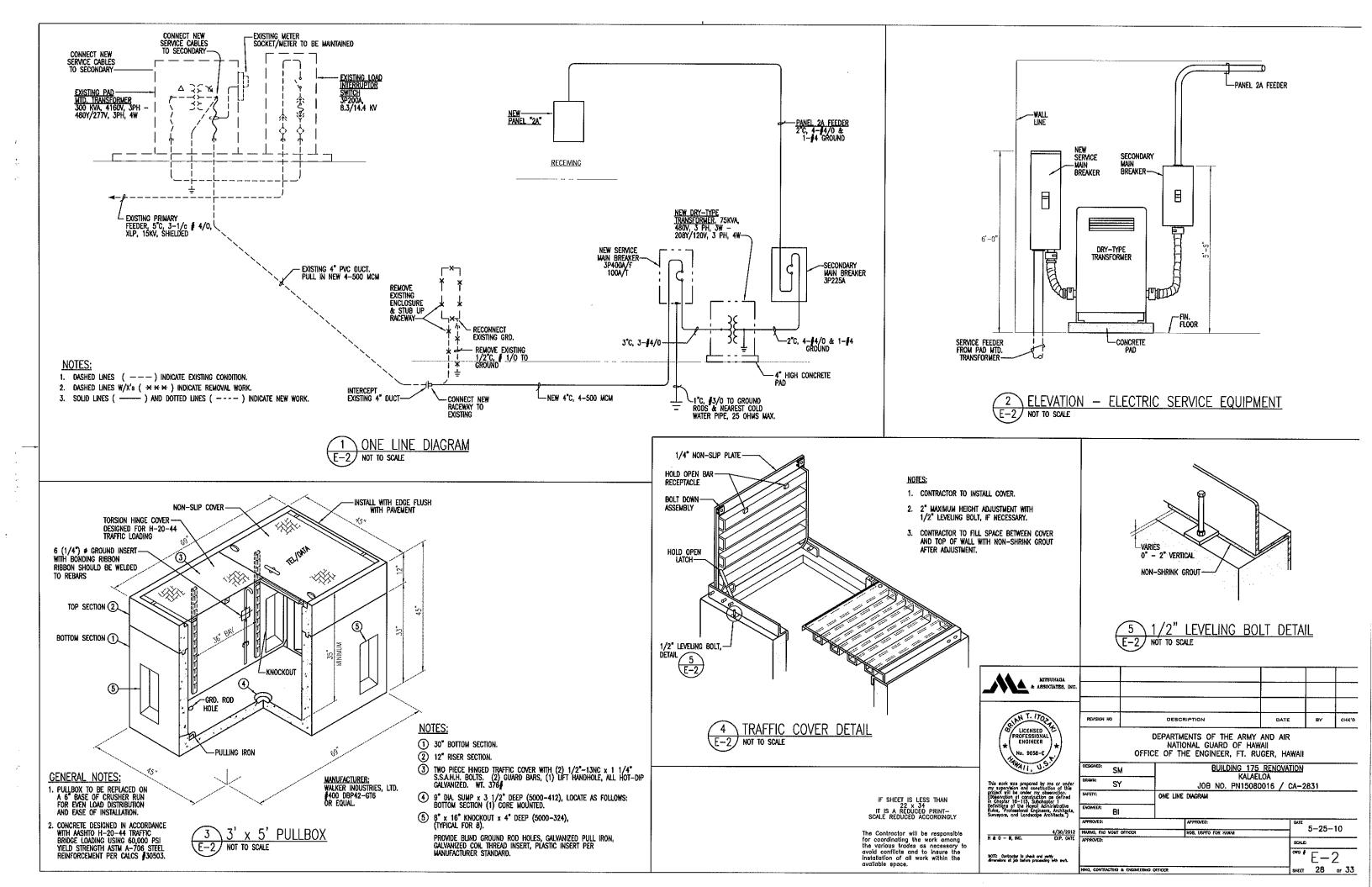
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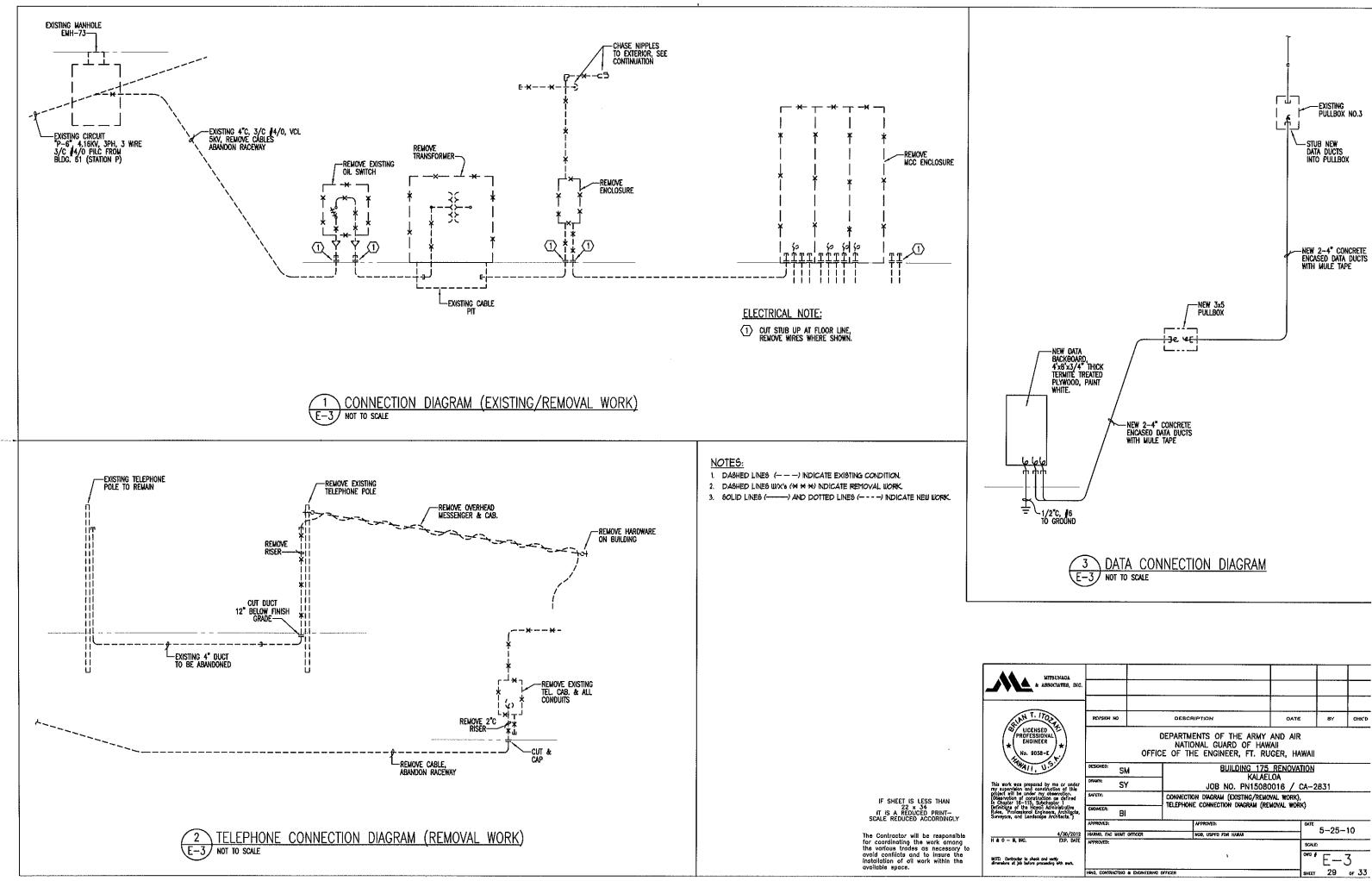
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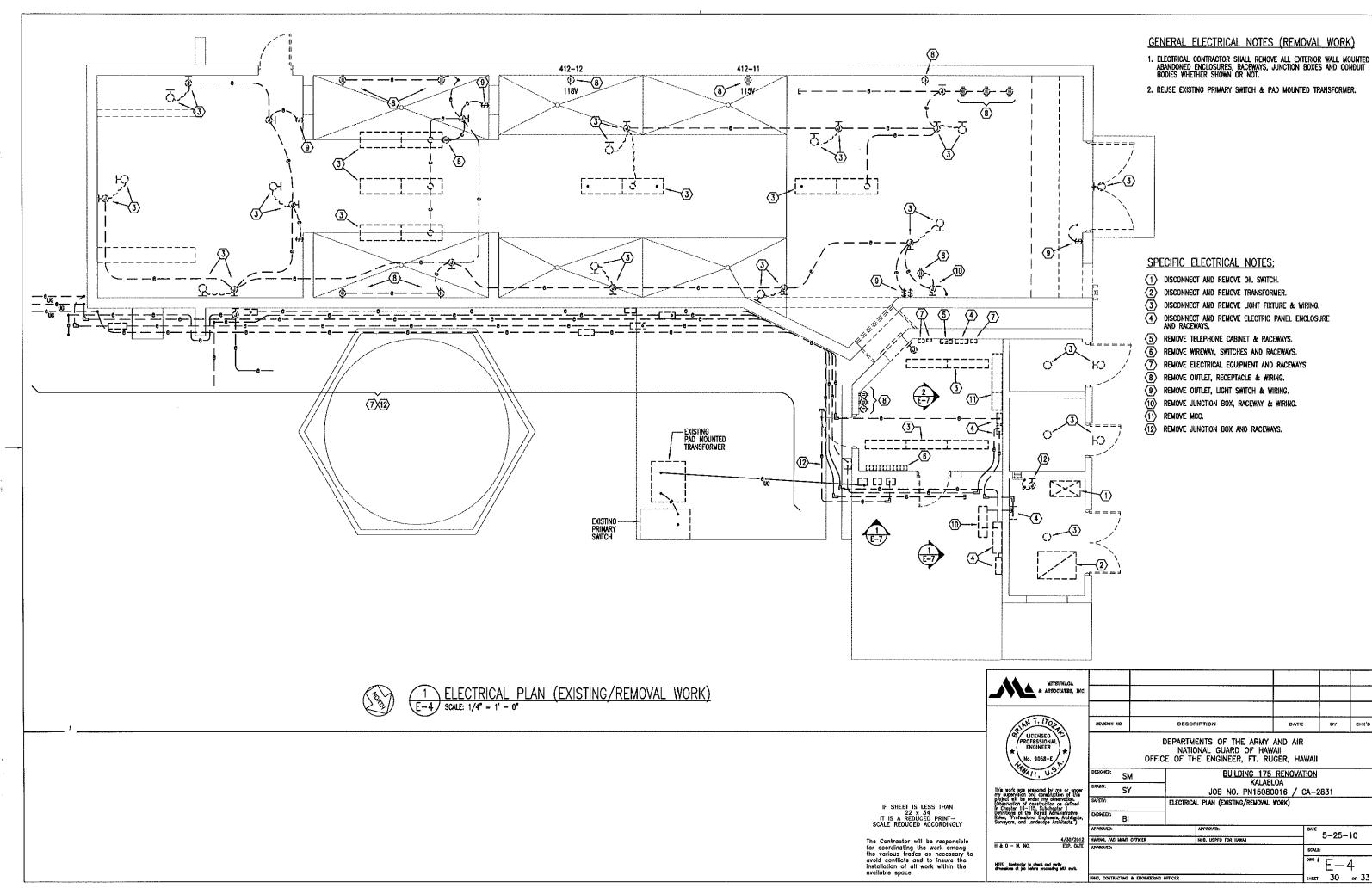




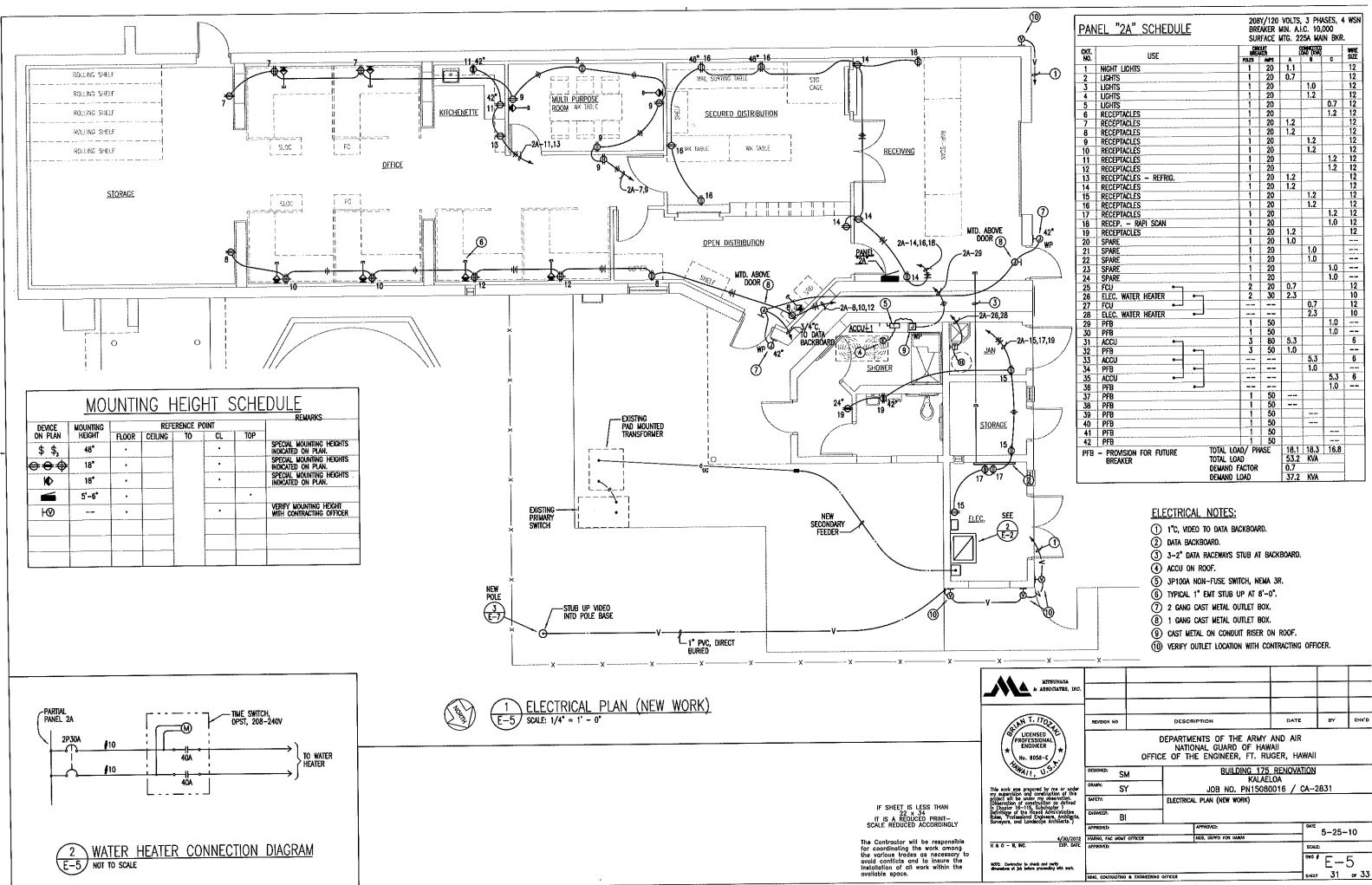
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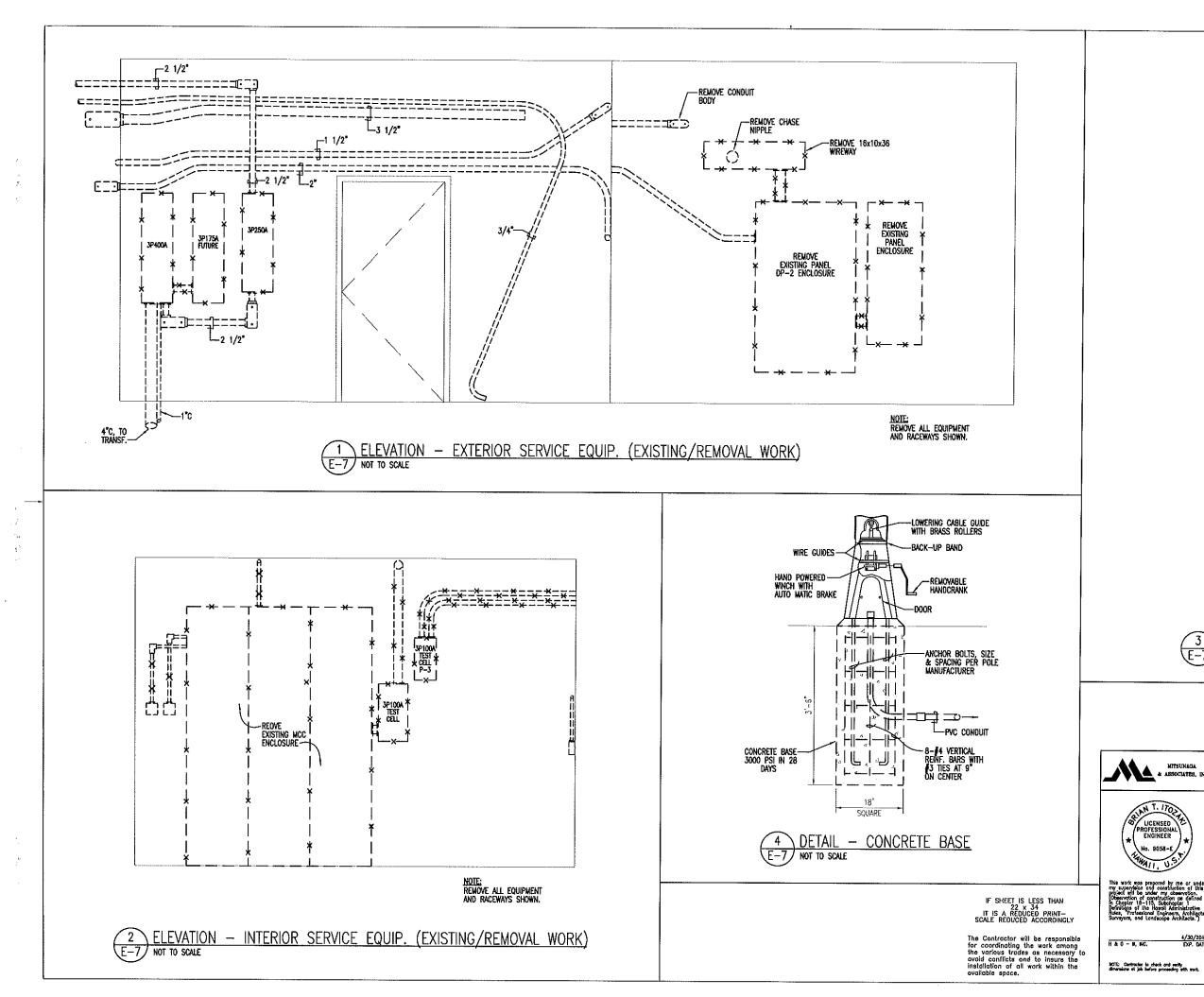
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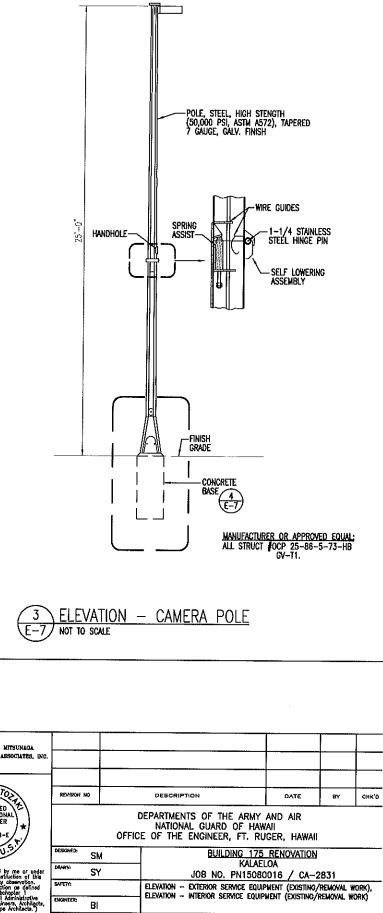
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