DEPARTMENT OF DEFENSE, STATE OF HAWAII

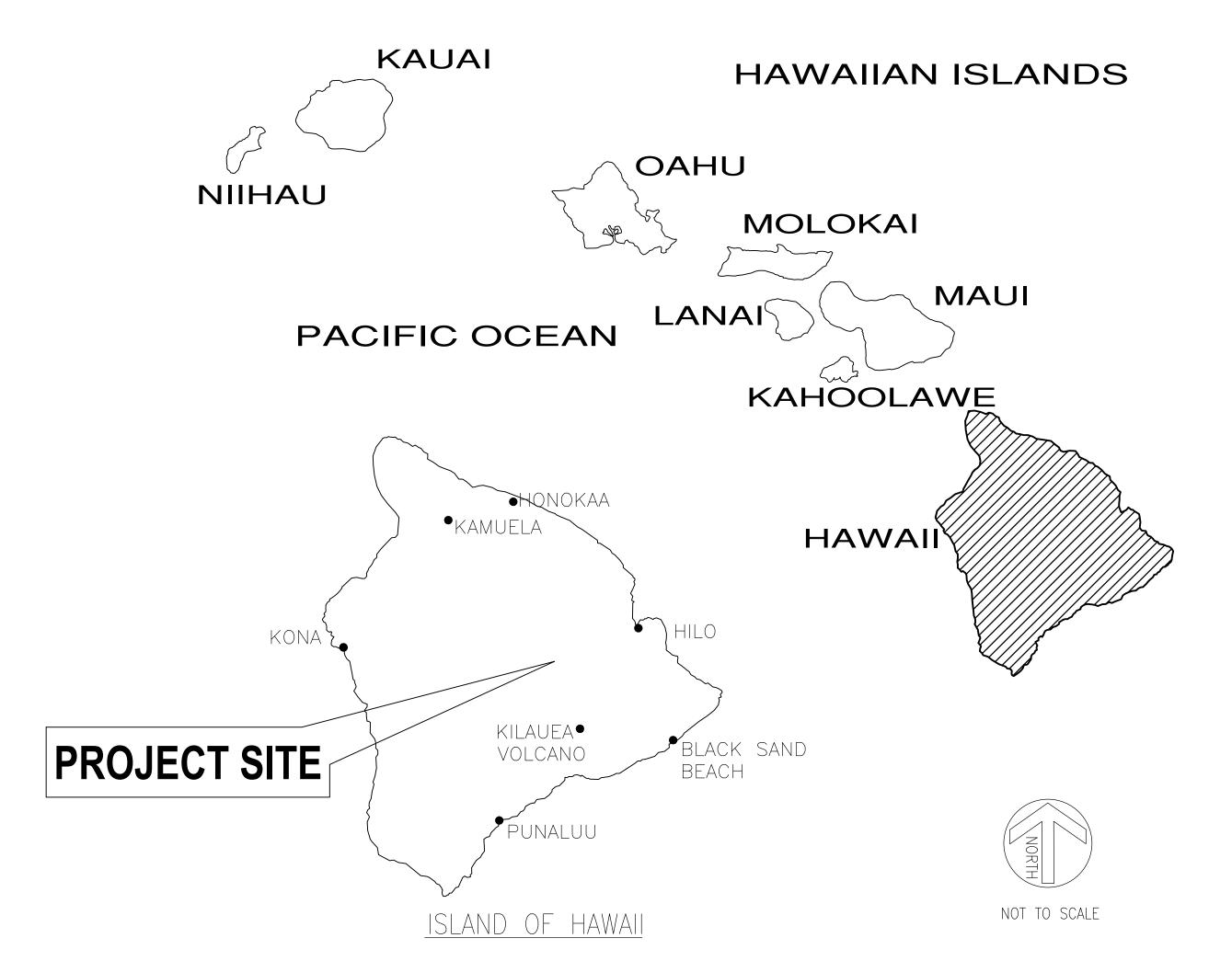
# HAWAII ARMY NATIONAL GUARD (HIARNG)

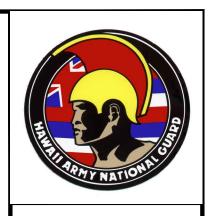
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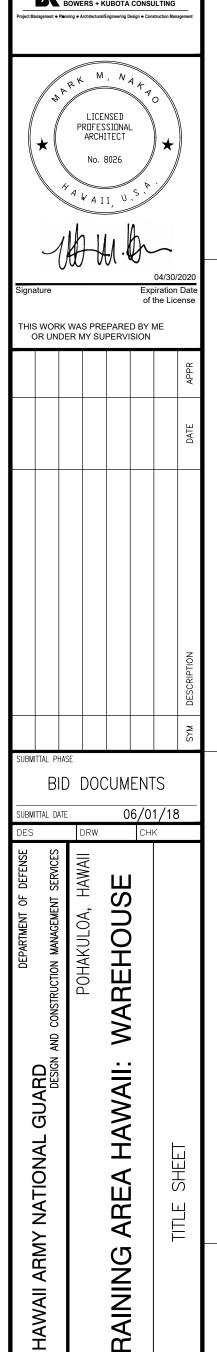
## POHAKULOA TRAINING AREA HAWAII WAREHOUSE

### POHAKULOA, HAWAII, HAWAII

FINAL SUBMITTAL







AS NOTED

CA-1807-C

EET 001 OF 27

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	<u>IN</u>	NDEX TO DRAWINGS			CC	DDE DATA - APPENDIX B		
SHT NO.	TITLE	DESCRIPTION						
1	T001	TITLE PAGE	PROJECT NAME: OWNER OR AUTHORI	HAWAII ARMY NATIONAL GUARD— ZED AGENT: STATE OF HAWAII, HAW	POHAKULOA TRAINING AREA: VAII ARMY NATIONAL GUARD //	WAREHOUSE AGENT: BOWERS + KUBOTA CONSULTING		
2	T002	INDEX TO DRAWINGS/ CODE DATA						FILL TRAY NATIONALOS
			LEAD DESIGN PROFE	SSIONAL: <u>MARK M. NAKAO</u> NAME	8026 (808) LICENSE# PHONE#	<u>836.7787</u> #		
		CIVIL	DESIGNER	FIRM	NAME	" Phone #		BWERS + KUBOTA CONSULTING
3	C101	CIVIL NOTES, ABBREVIATIONS, LEGEND AND DETAILS	ARCHITECT: CIVIL:	BOWERS+KUBOTA CONSULTING OKAHARA & ASSOCIATES, INC.	DEAN ICHIYAMA LENNIE OKANO-KENDRICK	(808) 836.7787		Project Management ● Planning ● Architectural Engineering Design ● Construction Mana
4	C102	GRADING PLAN	STRUCTURAL:	NAGAMINE OKAWA ENGINEERS, IN	IC. GEORGE GUTIERREZ	(808) 536.2626		RK M, NAT
5	C103	WAREHOUSE SITE PLAN	ELECTRICAL:	BOWERS+KUBOTA CONSULTING	BRIAN ITOZAKI	(808) 836.7787		LICENSED PRIFESSIONAL ARCHITECT
6	C201	DETAILS 1						★ ARCHITECT No. 8026
/	C202	DETAILS 2						A WAII, U.S.
		ARCHITECTURAL						O4/30/2  Signature Expiration of the Lice
								THIS WORK WAS PREPARED BY ME
8	A001	GENERAL NOTES, ARCHITECTURAL ABBREVIATIONS, & DRAWING LEGEND						OR UNDER MY SUPERVISION
9	A002	LIFE SAFETY PLAN						
10	AS101	SITE PLAN						
11	A101	FLOOR PLAN, REFLECTED CEILING PLAN						
12	A111	ROOF PLAN						
13	A201	EXTERIOR ELEVATIONS						
14	A301	SECTIONS						
15	A311	WALL SECTION						
16	A511	ROOF DETAILS						
17	A512	EXTERIOR WALL DETAILS						
18	A521	DOOR/ LOUVER DETAILS						SUBMITTAL PHASE
19	A601	DOOR & LOUVER SCHEDULE/ TYPES						BID DOCUMENTS
20	A611	FINISH SCHEDULE						SUBMITTAL DATE 06/01/18  DES DRW CHK
								OF DEFENSION NT SERVICE
		STRUCTURAL						
21	S001	STRUCTURAL GENERAL NOTES						DEPART HAKU
22	S101	FOUNDATION PLAN & ROOF FRAMING PLANS						DEPARTMENT ND CONSTRUCTION MANAGEME POHAKULOA
23	S201	DETAILS						AND CO
24	S202	DETAILS						GUARD DESIGN WAII:
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25	E001	SYMBOL LIST, GENERAL NOTES						
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- 1. ACCESS TO POHAKULOA TRAINING AREA (PTA) IS CONTROLLED. THE CONTRACTOR MUST COMPLY WITH THE REQUIREMENTS FOR OBTAINING AN INSTALLATION ACCESS PASS. ALLOW FOR 2 TO 4 WEEKS PROCESSING TIME FOR EACH APPLICATION. APPLICATIONS MUST BE RENEWED ANNUALLY. CERTIFIED BACKGROUND CHECKS MUST BE PROVIDED BY THE CONTRACTOR FOR ALL INDIVIDUALS, INCLUDING, BUT NOT LIMITED TO, SUB-CONTRACTORS, SUPPLIERS AND CONSULTANTS. THE COST OF CERTIFIED BACKGROUND CHECKS SHALL BE PAID BY THE CONTRACTOR. ACCESS TO THE BASE CAN BE DENIED BY THE GOVERNMENT AT ANY TIME. NO PERSONALLY OWNED VEHICLES SHALL BE PERMITTED ON BASE. COORDINATE PARKING AND TRANSPORTATION REQUIREMENTS SUCH THAT NO PRIVATE VEHICLES PARK/TRAVEL DOWN RANGE.
- 2. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN/EXCAVATION PERMIT TO DPW FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL REQUEST A COPY OF THE CURRENT VERSION FROM DPW PRIOR TO SUBMITTING. NOTE THAT ALL COMPANIES AND GOVERNMENT ORGANIZATIONS LISTED MAY NOT BE APPLICABLE FOR THE ISLAND OF HAWAII. THE CONTRACTOR SHALL SUBMIT THE PLAN/PERMIT FOR REVIEW AND APPROVAL TO ALL APPLICABLE COMPANIES. GOVERNMENT ORGANIZATIONS, AND OTHERS AFFECTED, AS DETERMINED BY THE CONTRACTING OFFICER.
- 3. THE CONTRACTOR SHALL PLAN A MINIMUM OF TWO INSTANCES PER YEAR WHEN ACCESS TO THE CONSTRUCTION SITE WILL BE DENIED DUE TO MILITARY TRAINING EXERCISES FOR A PERIOD OF TWO WEEKS FOR EACH INSTANCE. COORDINATE WITH PTA AND USAG-HI. THIS SHALL BE INCORPORATED INTO THE CONTRACTOR'S SCHEDULE AS CRITICAL ACTIVITIES (I.E. ON THE CRITICAL PATH). THE SCHEDULE SHALL HAVE NO WORK ON SITE THAT IS CONCURRENT WITH TRAINING DAYS.
- 4. THE CONTRACTOR SHALL GET APPROVAL FROM THE CONTRACTING OFFICER REPRESENTATIVE (COR) FOR LOCATION AND REQUIREMENTS OF CONTRACTOR STAGING AREA AND HAUL ROUTES FOR CONSTRUCTION TRAFFIC. COR ALSO NEED TO APPROVE PROJECT SIGN POSTED AT JOB SITE.
- 5. 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 TONE TO VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. THE COST OF TONING SHALL BE INCIDENTAL TO THE COST OF THE CONTRACT. 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.
- 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 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.
- 7. ANY UTILITIES. STRUCTURES. OR LANDSCAPING DAMAGED BY THE CONTRACTOR DURING PROGRESS OF THE WORK. WHETHER SHOWN OR NOT IN THE CONTRACT DOCUMENTS, SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE GOVERNMENT.
- 8. THE CONTRACTOR SHALL CONDUCT ALL TESTS AS REQUIRED FOR THE PROJECT AND BE RESPONSIBLE FOR ALL EXPENSES INCURRED IN CONDUCTING THESE TESTS
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING CONCRETE SLABS OR REMNANTS, AC PAVEMENT ETC. SCHEDULED FOR REMOVAL AND/OR INTERFERING WITH CONSTRUCTION OF PROPOSED IMPROVEMENTS.
- 10. ALL WORK SHALL BE COORDINATED WITH THE DIRECTORATE OF PUBLIC WORKS BEFORE WORK COMMENCES, AND THE CONDITION OF ALL EXISTING ROADS/FACILITIES/AREAS SHALL BE DOCUMENTED PRIOR TO WORK. ALL DISTURBED AREAS SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR BETTER.
- 11. ALL WORK NOT CALLED FOR ON THE PLANS BUT REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE CONSIDERED INCIDENTAL TO OTHER CONTRACT ITEMS.
- 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. IF DURING EXCAVATION OR OTHER CONSTRUCTION ACTIVITIES ANY UNIDENTIFIED OR UNANTICIPATED HISTORICAL AND ARCHAEOLOGICAL CULTURAL RESOURCES ARE DISCOVERED OR FOUND. ALL ACTIVITIES THAT MAY DAMAGE OR ALTER SUCH RESOURCES SHALL BE TEMPORARILY SUSPENDED. RESOURCES COVERED BY THIS PARAGRAPH INCLUDE BUT ARE NOT LIMITED TO: ANY HUMAN SKELETAL REMAINS OR BURIALS: ARTIFACTS: SOIL LAYERS CONTAINING MIDDEN REMAINS SUCH AS SHELL, BONE, CHARCOAL, CORAL PIECES, FIRE-CRACKED ROCKS, AND ANY SUCH ITEMS; ROCK OR CORAL ALIGNMENTS, PAVINGS, WALL, OR OTHER CONSTRUCTED FEATURES; AND ANY INDICATION OF AGRICULTURAL OR OTHER HUMAN ACTIVITIES.
- 14. UPON SUCH DISCOVERY OR FIND, THE CONTRACTOR SHALL TAKE A PHOTO OF THE SITE OR DISCOVERY AND THEN IMMEDIATELY NOTIFY THE CONTRACTING OFFICER. AND SUBMIT IT SO THAT THE APPROPRIATE AUTHORITIES MAY BE NOTIFIED AND A DETERMINATION MADE AS TO THEIR SIGNIFICANCE AND WHAT, IF ANY, SPECIAL DISPOSITION OF THE FINDS SHOULD BE MADE. THE CONTRACTOR SHALL CEASE ALL ACTIVITIES THAT MAY RESULT IN IMPACT TO OR THE DESTRUCTION OF THESE RESOURCES. THE CONTRACTOR SHALL SECURE THE AREA AND PREVENT EMPLOYEES OR OTHER PERSONS FROM TRESPASSING ON, REMOVING, OR DISTURBING SUCH RESOURCES.

#### **GRADING NOTES:**

- THE CONTRACTOR SHALL OBTAIN A DPW EXCAVATION PERMIT PRIOR TO STARTING ANY EXCAVATION WORK.
- 2. THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS AND OTHER AREAS RESULTING FROM HIS WORK. THE COSTS INCURRED FOR ANY NECESSARY REMEDIAL ACTION BY THE DIRECTORATE OF PUBLIC WORKS (DPW) SHALL BE PAYABLE BY THE CONTRACTOR.
- 3. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AND SURROUNDING AREAS FREE FROM DUST NUISANCES. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL RULES OF THE STATE DEPARTMENT OF HEALTH. HAR 11-60.1. FUGITIVE DUST.
- 4. ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 55, WATER POLLUTION CONTROL AND CHAPTER 54, WATER QUALITY STANDARDS, AND TO THE EROSION AND SEDIMENTATION CONTROL STANDARDS AND GUIDELINES OF THE DEPARTMENT OF PUBLIC WORKS. COUNTY OF HAWAII.
- 5. THE CONTRACTOR SHALL STABILIZE ALL SLOPES AND EXPOSED AREAS AS SOON AS PRACTICABLE, BUT NO MORE THAN 14 CALENDAR DAYS. IN ANY PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.
- 6. FILLS ON SLOPES STEEPER THAN 5:1 SHALL BE KEYED.
- 7. DISPOSAL AND/OR BORROW SITES SHALL BE LOCATED OFF GOVERNMENT PROPERTY. UNLESS OTHERWISE NOTIFIED BY COR.
- 8. NO GRADING WORK SHALL BE DONE ON SATURDAYS, SUNDAYS AND HOLIDAYS ANYTIME WITHOUT PRIOR APPROVAL FROM THE DIRECTORATE OF PUBLIC WORKS AND THE COR. GRADING WORK ON NORMAL WORKING DAYS SHALL BE BETWEEN THE HOURS OF 7:00 A.M. TO 3:30 P.M.
- 9. FILLS SHALL BE COMPACTED TO 90 PERCENT (90%) OF MAXIMUM DENSITY PER ASTM D-1557 TEST.
- 10. THE CONTRACTOR SHALL REMOVE ALL VEGETATION BEFORE PLACING FILLS ON NATURAL GROUND SURFACE.

-----X CHAIN LINK FENCE ASPHALT CONCRETE APPROX. **APPROXIMATELY BUILDING** 

BOTTOM CONCRETE

D/DIA. DIAMETER DPW DIRECTORATE OF PUBLIC WORKS E/ELEC. **ELECTRIC** 

CONTRACTING OFFICER REPRESENTATIVE

ELEV./EL. **ELEVATION** EXIST. **EXISTING** FINISH FLOOR FG FINISH GRADE **GAUGE** GALV. GALVANIZED

**ABBREVIATIONS** 

BOT.

COR

CONC.

HEIGHT HAWAII ARMY NATIONAL GUARD

HIARNG LINEAR FEET L.P. LIGHT POLE MAX. **MAXIMUM** MIN. MINIMUM NUMBER

0.C. ON CENTER 0.D. OUTSIDE DIAMETER OH/E OVERHEAD ELECTRIC POUNDS PER SQUARE INCH PTA POHAKULOA TRAINING AREA

SCH. **SCHEDULE** SECTION SHT. SHEET SPECIFICATIONS STD. STANDARD TEMP. **TEMPORARY** TOP OF GRATE TYP. **TYPICAL** UTILITY POLE

UNITED STATES ARMY GARRISON HAWAII

SPREAD

**LEGEND** 

A.C. PAVEMENT

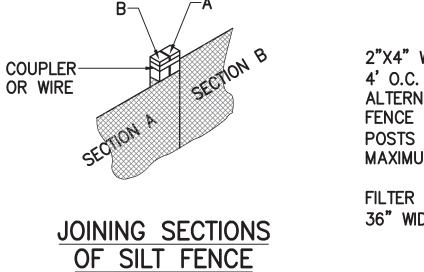
WAREHOUSE BUILDING

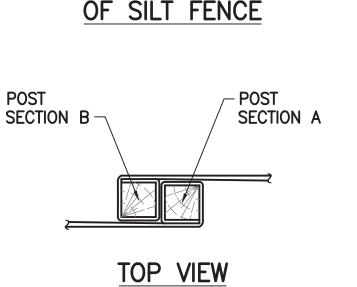
AGGREGATE SUBBASE

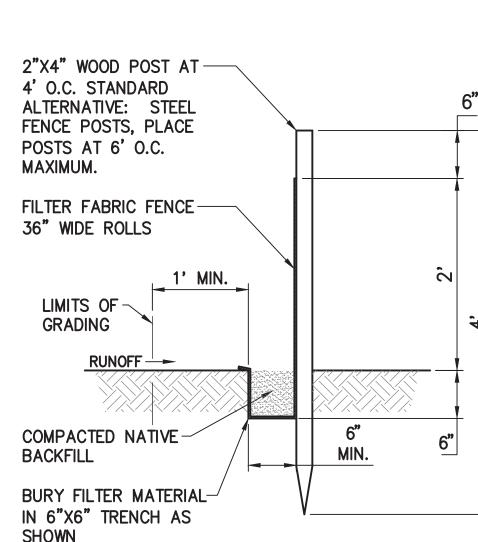
—— E<sub>x</sub>—— EXIST. OVERHEAD ELECTRIC

#### EROSION CONTROL AND BEST MANAGEMENT PRACTICE NOTES:

- CLEARING, GRUBBING AND GRADING SHALL BE HELD TO THE MINIMUM NECESSARY. GRADING AND GRUBBING SHALL BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF CLEARED SURFACE AREA.
- 2. INSTALL SILT FENCE WHERE INDICATED ON SHEET C102. SILT FENCE MAY BE ADJUSTED TO FIT CONTRACTOR'S OPERATIONS AFTER CONTRACTOR ACQUIRES APPROVAL FROM THE COR.
- 3. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE AND FUNCTIONAL BEFORE GRADING AND GRUBBING OPERATIONS BEGIN. THESE MEASURES SHALL BE PROPERLY CONSTRUCTED AND MAINTAINED THROUGHOUT THE GRADING AND GRUBBING PERIOD.
- ALL CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS NECESSARY, FOR EXAMPLE, WEEKLY IN DRY PERIODS AND WITHIN TWENTY-FOUR HOURS AFTER ANY RAINFALL OF 0.5 INCHES OR GREATER WITHIN A 24-HOUR PERIOD. DURING PROLONGED RAINFALL, DAILY CHECKING IS NECESSARY. THE CONTRACTOR SHALL MAINTAIN RECORDS OF CHECKS AND REPAIRS.
- 5. IF HEAVY RAINS ARE PROJECTED DURING A WORKDAY, ALL CONTROL STRUCTURES WILL BE INSPECTED IMMEDIATELY AND REINFORCED AS NECESSARY.
- 6. ALL SILT FENCE WILL REMAIN IN PLACE UNTIL PROJECT COMPLETION OR DOW INSPECTOR'S APPROVAL.
- 7. THE CONTRACTOR SHALL MAINTAIN RECORDS OF THE DURATION AND ESTIMATED VOLUME OF STORM WATER DISCHARGE(S).
- 8. A SPECIFIC INDIVIDUAL SHALL BE DESIGNATED TO BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS ON THE PROJECT SITE.
- 9. GOOD HOUSEKEEPING PRACTICES SHALL BE MAINTAINED FOR STORAGE OF HAZARDOUS CHEMICALS, SUCH AS PESTICIDES AND FERTILIZER. TO PREVENT SPILLAGE FROM OCCURRING AND FLOWING INTO WATERCOURSES. ALL SPILLS SHALL BE STOPPED AND CLEANED UP WITH PROPER ABSORBENT MATERIAL. ABSORBENT MATERIAL SPILL KITS SHALL BE MAINTAINED ON-SITE.
- 10. SANITARY AND SEPTIC WASTES SHALL BE COLLECTED FROM ON-SITE FACILITIES ON A REGULAR BASIS BY A LICENSED HAULER. SANITARY AND SEPTIC FACILITIES SHALL NOT BE LOCATED NEAR WATERCOURSES.
- 11. VEHICLE AND EQUIPMENT MAINTENANCE AND FUELING SHALL BE DONE OFF-SITE (WHERE AT ALL POSSIBLE).
- 12. DUST CONTROL WITH WATER SPRAY (BY TRUCK OR TEMPORARY SPRINKLERS) SHALL BE INSTALLED AS NEEDED. DO NOT OVERWATER.
- 13. CONTRACTORS AND SUBCONTRACTORS SHALL BE TRAINED ON THE BEST MANAGEMENT PRACTICES.
- 14. SILT FENCE FABRIC SHALL BE CLEARED OF SILT IMMEDIATELY FOLLOWING THE END OF ANY RAINFALL THAT CAUSES SILT BUILDUP ON THE FABRIC.
- 15. THE CONTRACTOR SHALL MAINTAIN ALL TEMPORARY BMP MEASURES UNTIL THE ENTIRE AREA IS COMPLETELY STABILIZED. ALL BMP MEASURES SHALL BE REMOVED IMMEDIATELY. AFTER THE AREAS IS COMPLETELY STABILIZED OR AS DIRECTED BY THE ENGINEER IN THE FIELD.
- 16. THE CONTRACTOR SHALL COVER ALL STOCKPILE EXCAVATED MATERIALS SHOULD REMOVAL OF SUCH MATERIALS NOT OCCUR ON THE SAME DAY.
- 17. THE CONTRACTOR SHALL INSTALL SILT FENCE, BERMS, TRENCHES OR OTHER EROSION CONTROL MEASURES ALONG THE DOWNSLOPE SIDE OF ERODIBLE MATERIAL STOCKPILE(S) WITHIN THE CONTRACTOR STAGING AND STORAGE AREA(S).











Okahara and CONSULTING ENGINEERS 00 KOHOLA STREET 677 ALA MOANA BLVD. SUITE 76 LO, HAWAII 96720 HONOLULU, HAWAII 9681 LL: (808) 961-5527 TEL: (808) 524-122

WANO - AEA Licensed Professional Engineer **\**No.11108−0

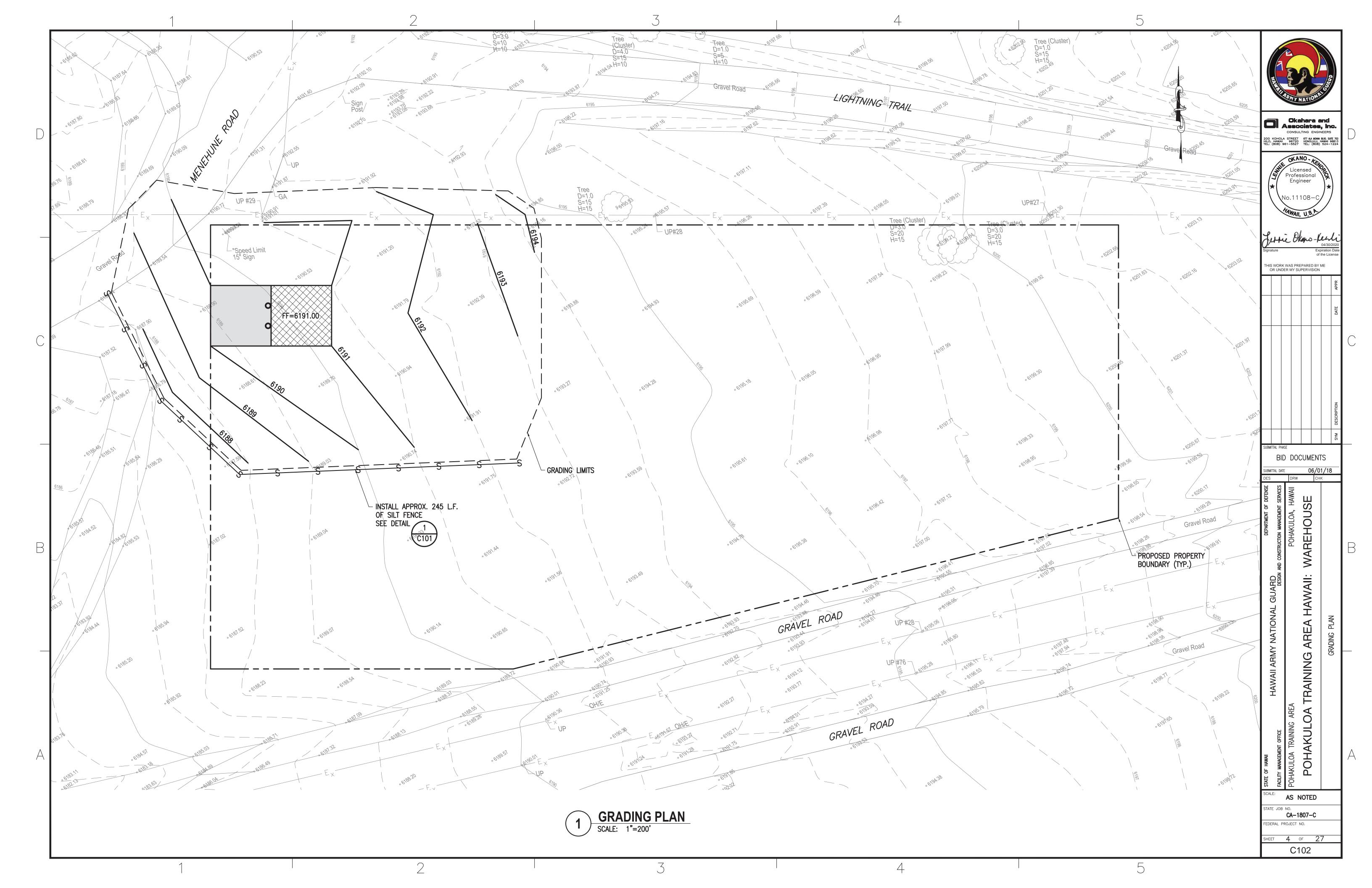
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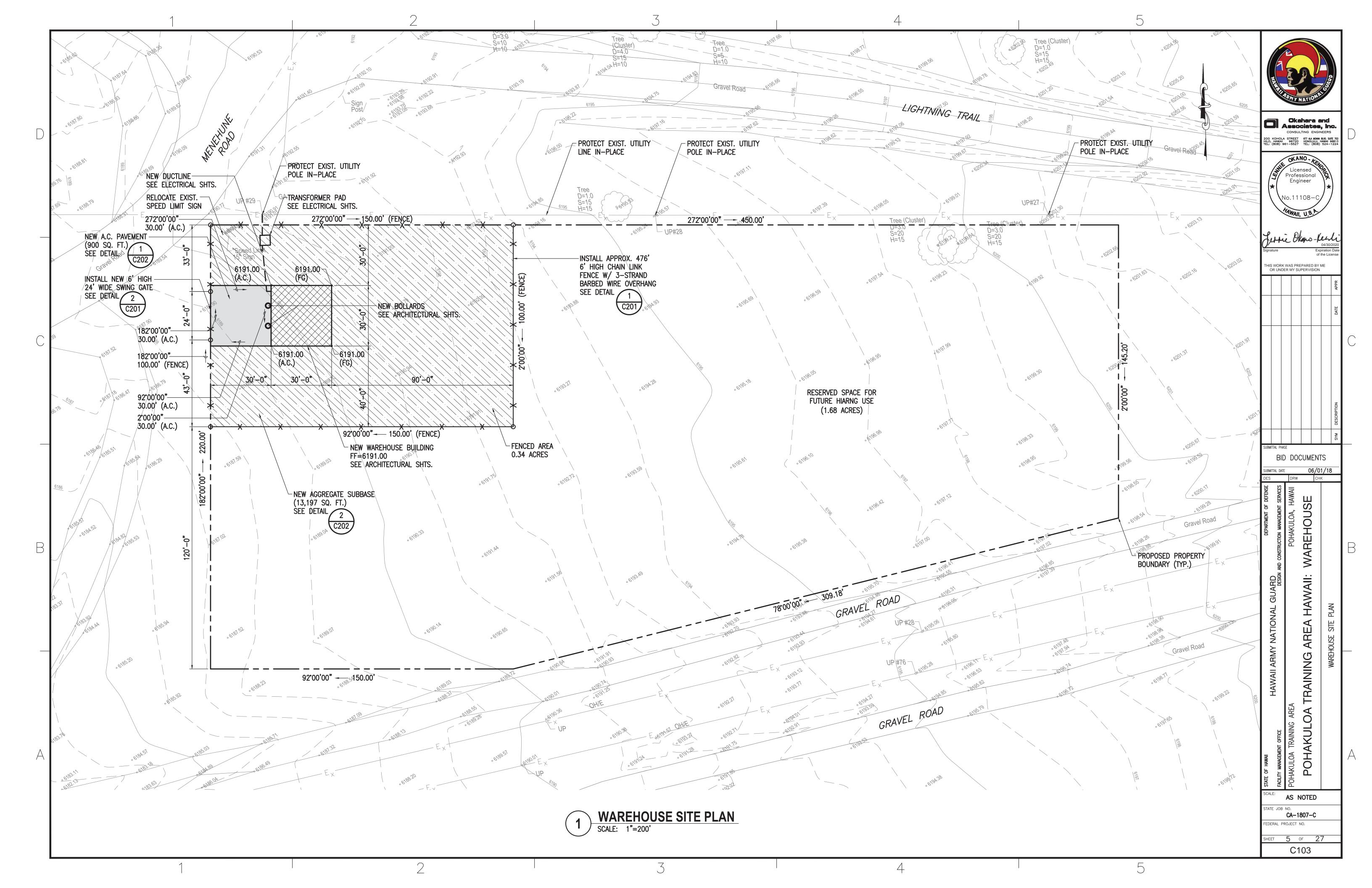
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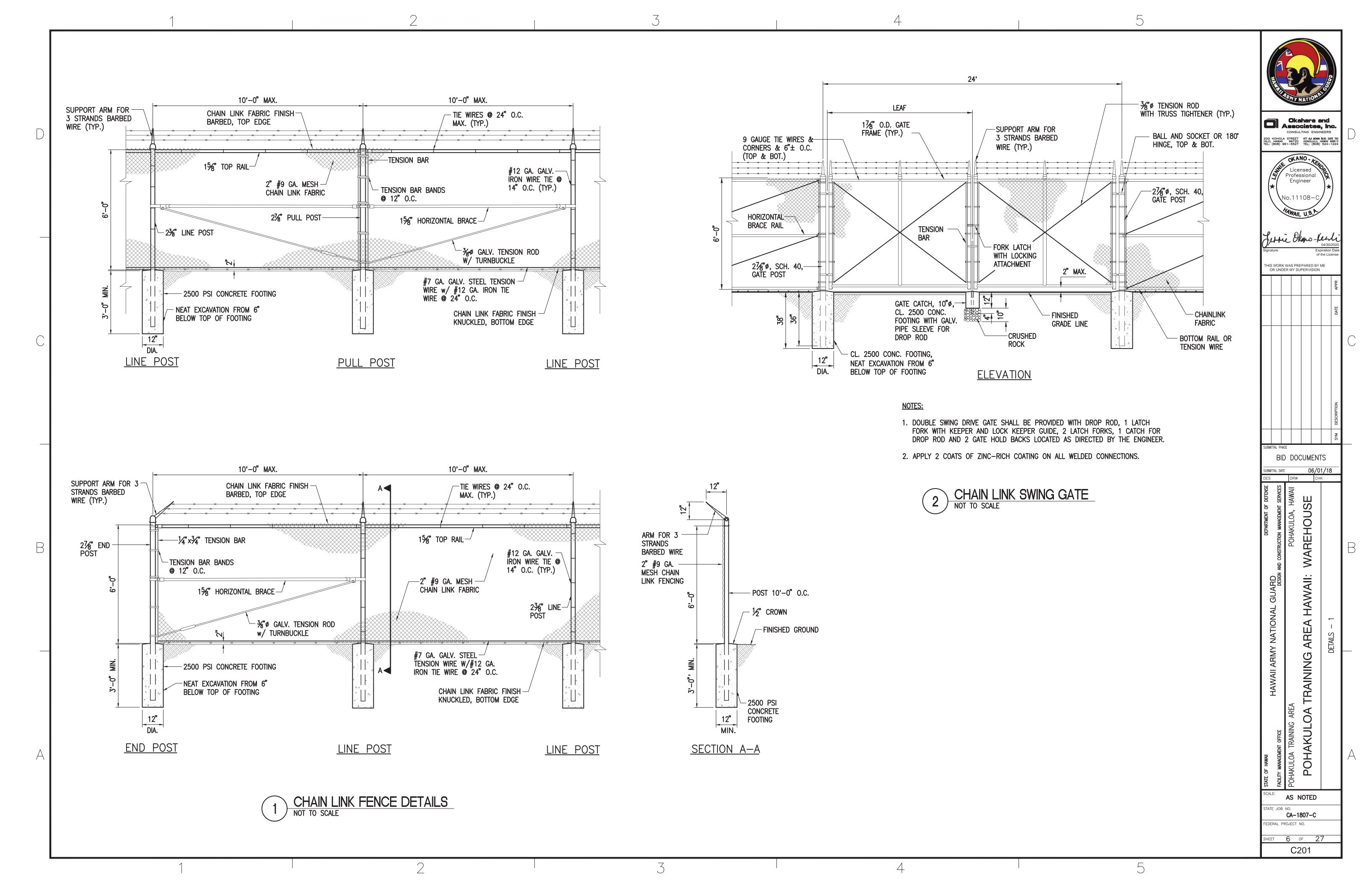
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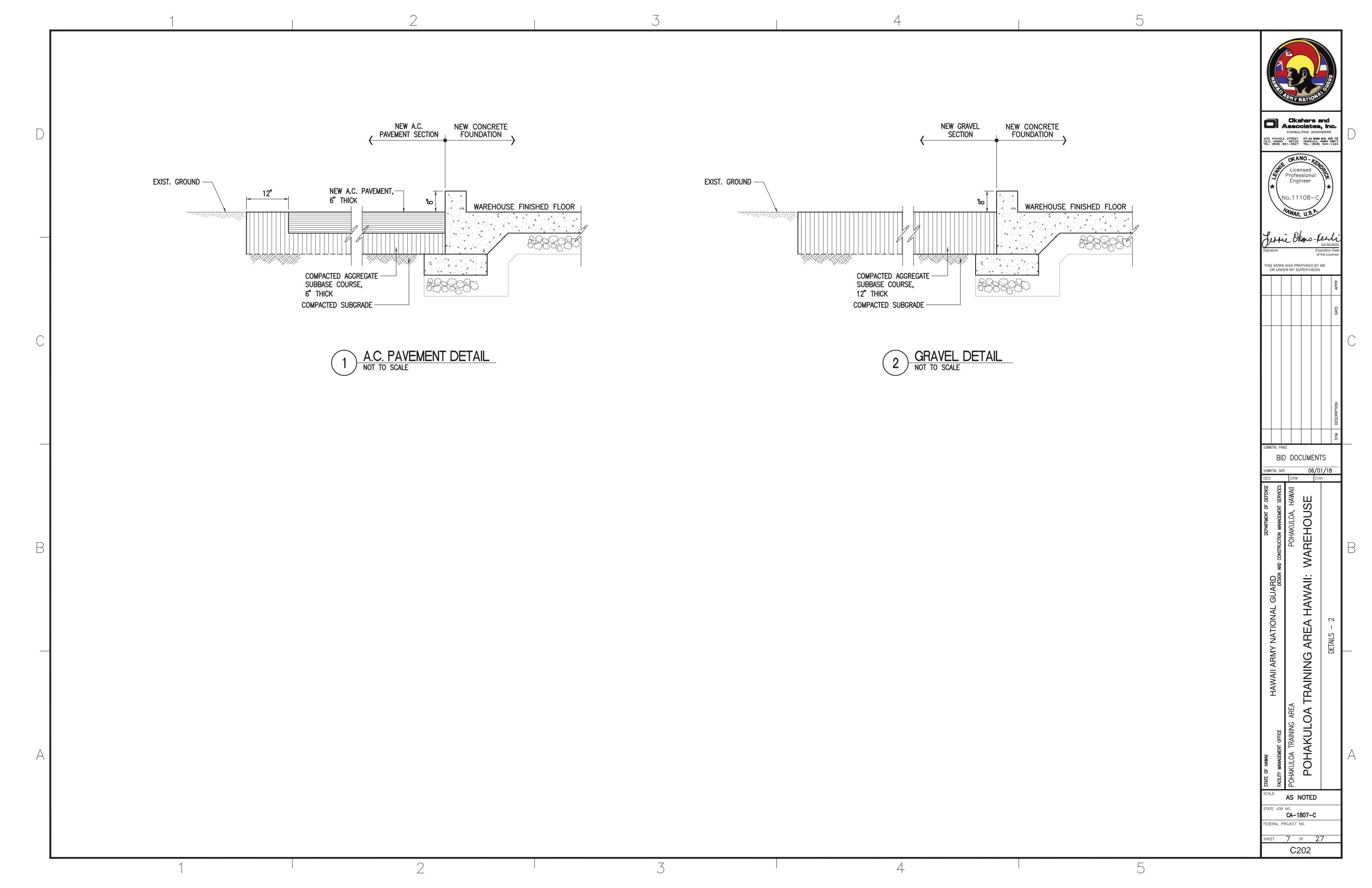
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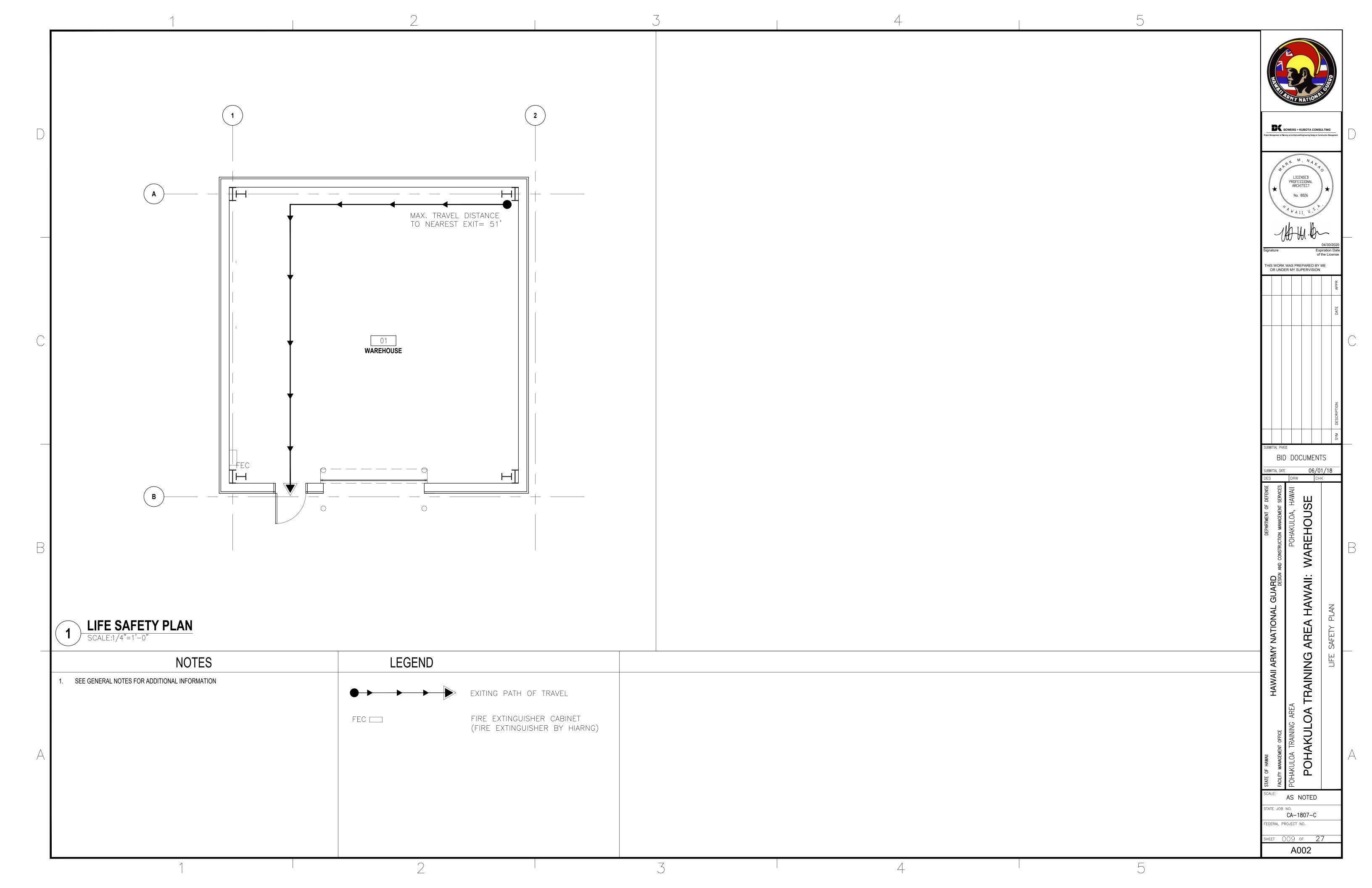


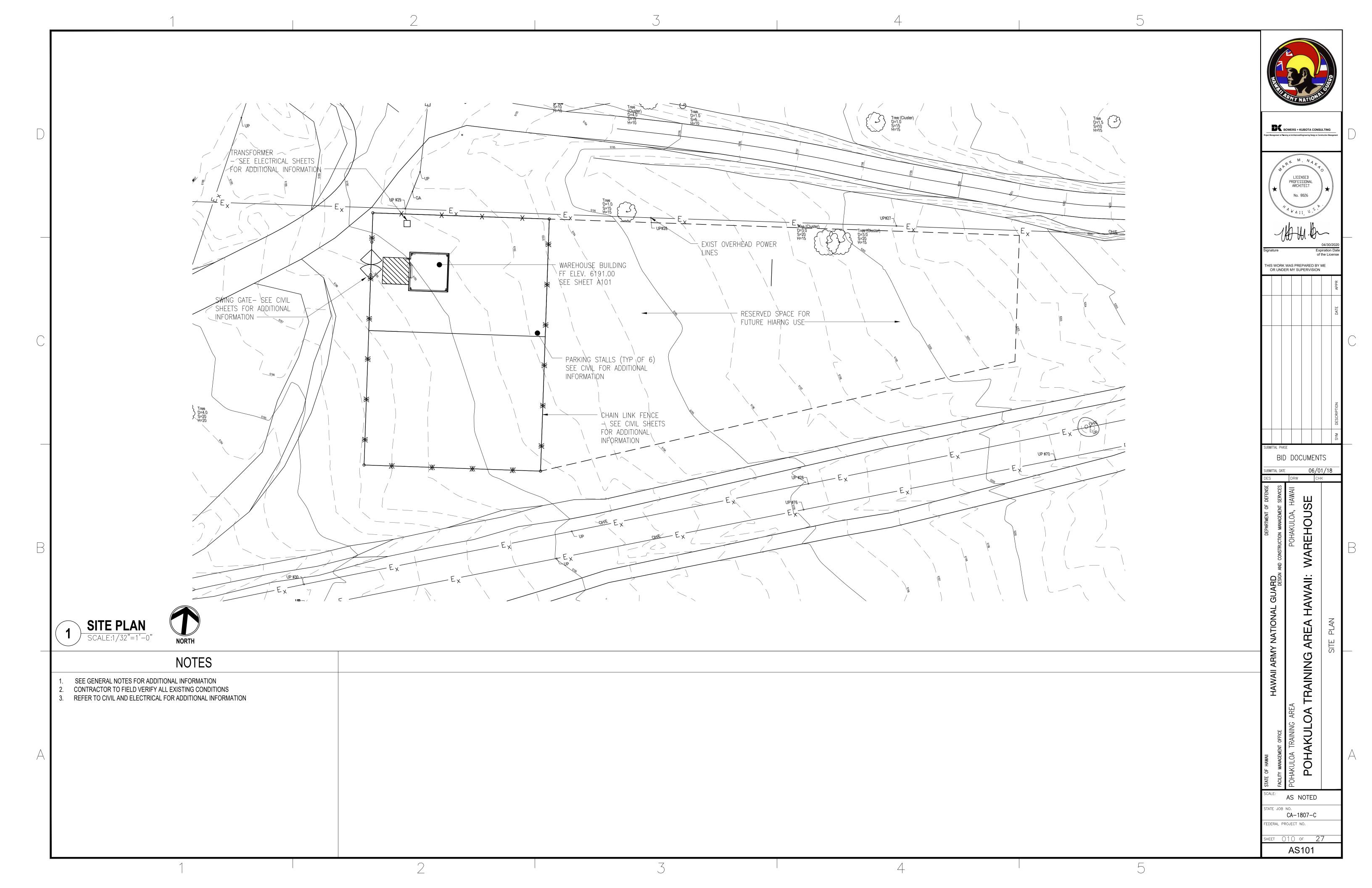


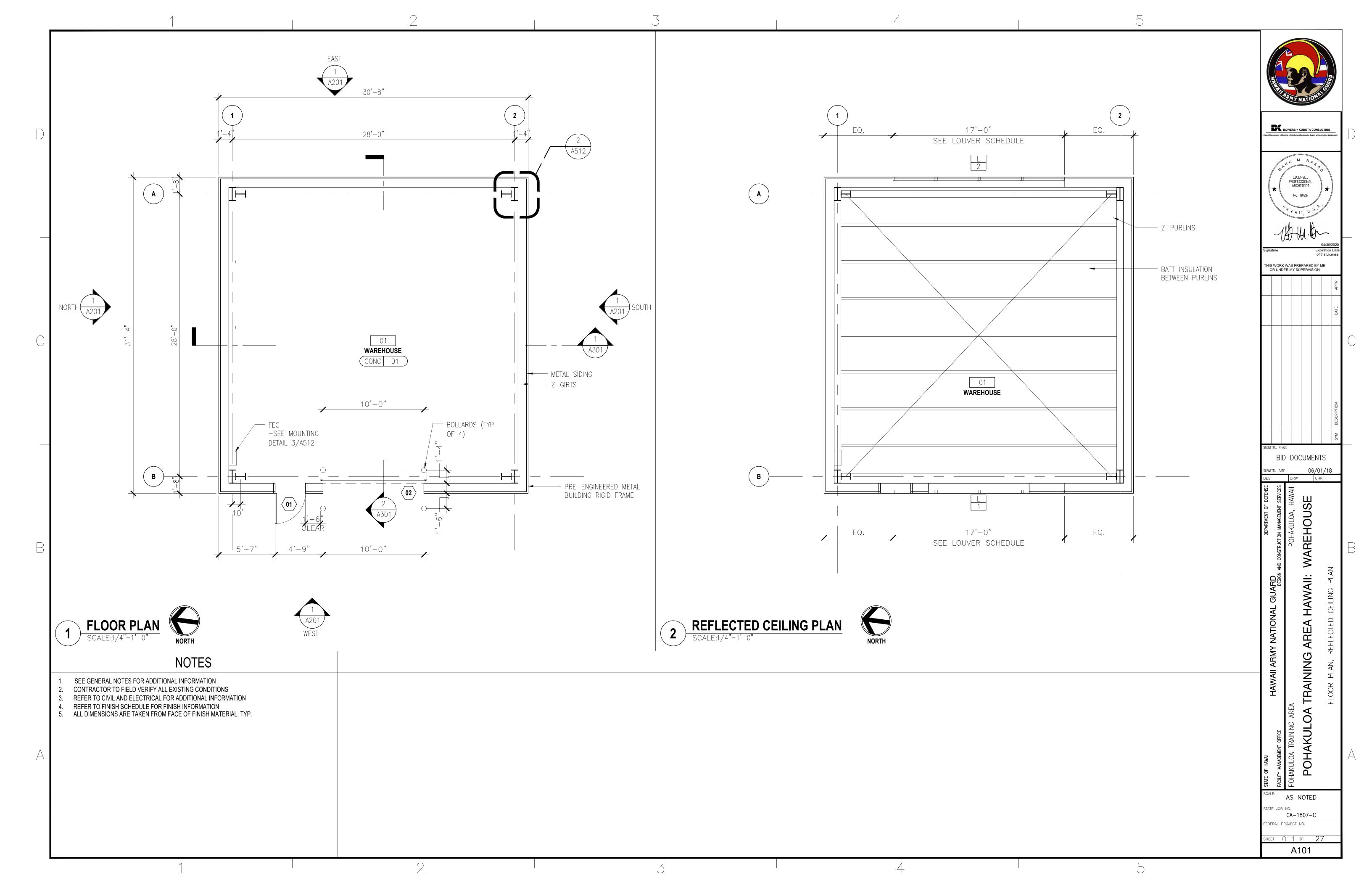


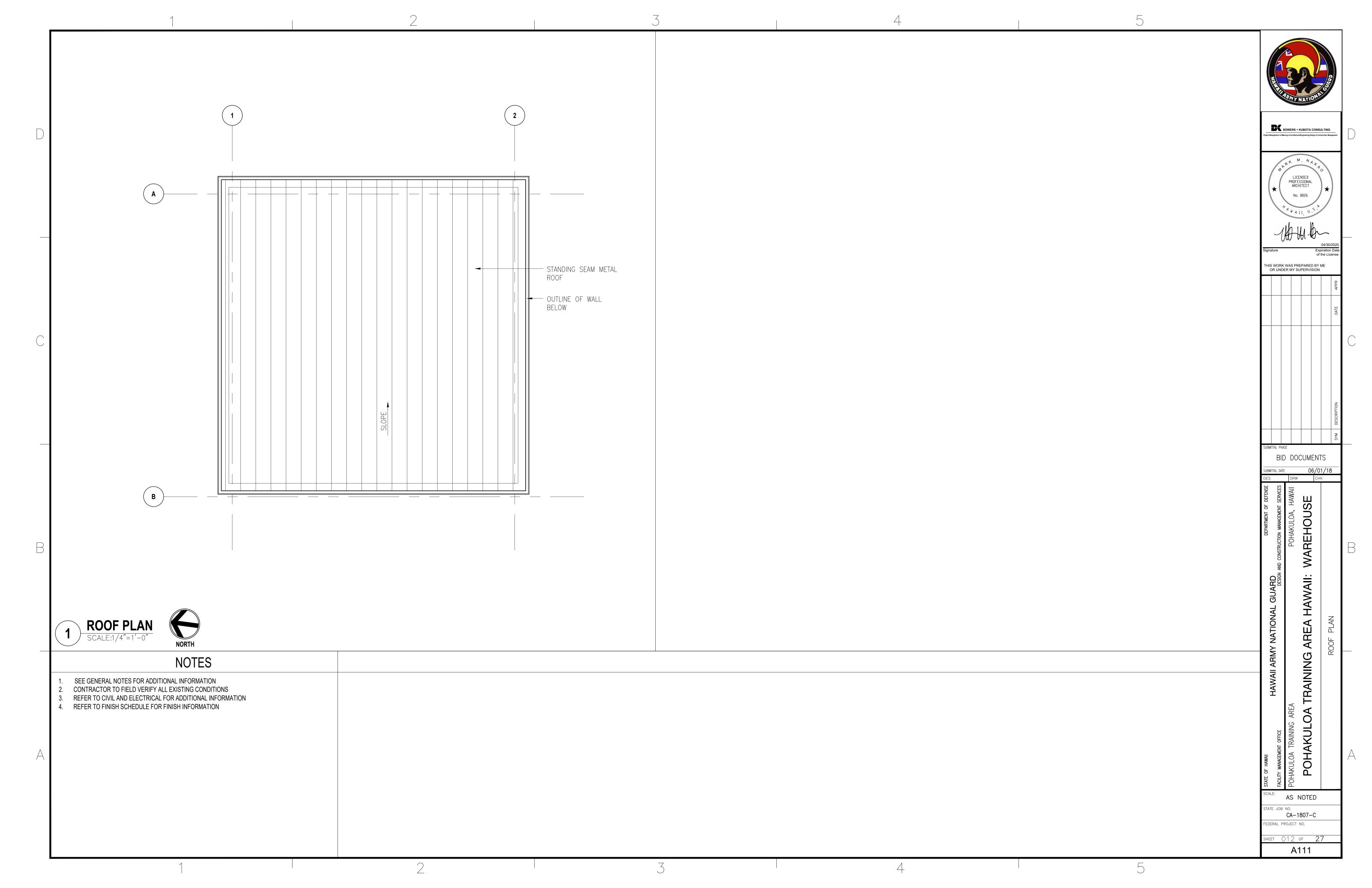


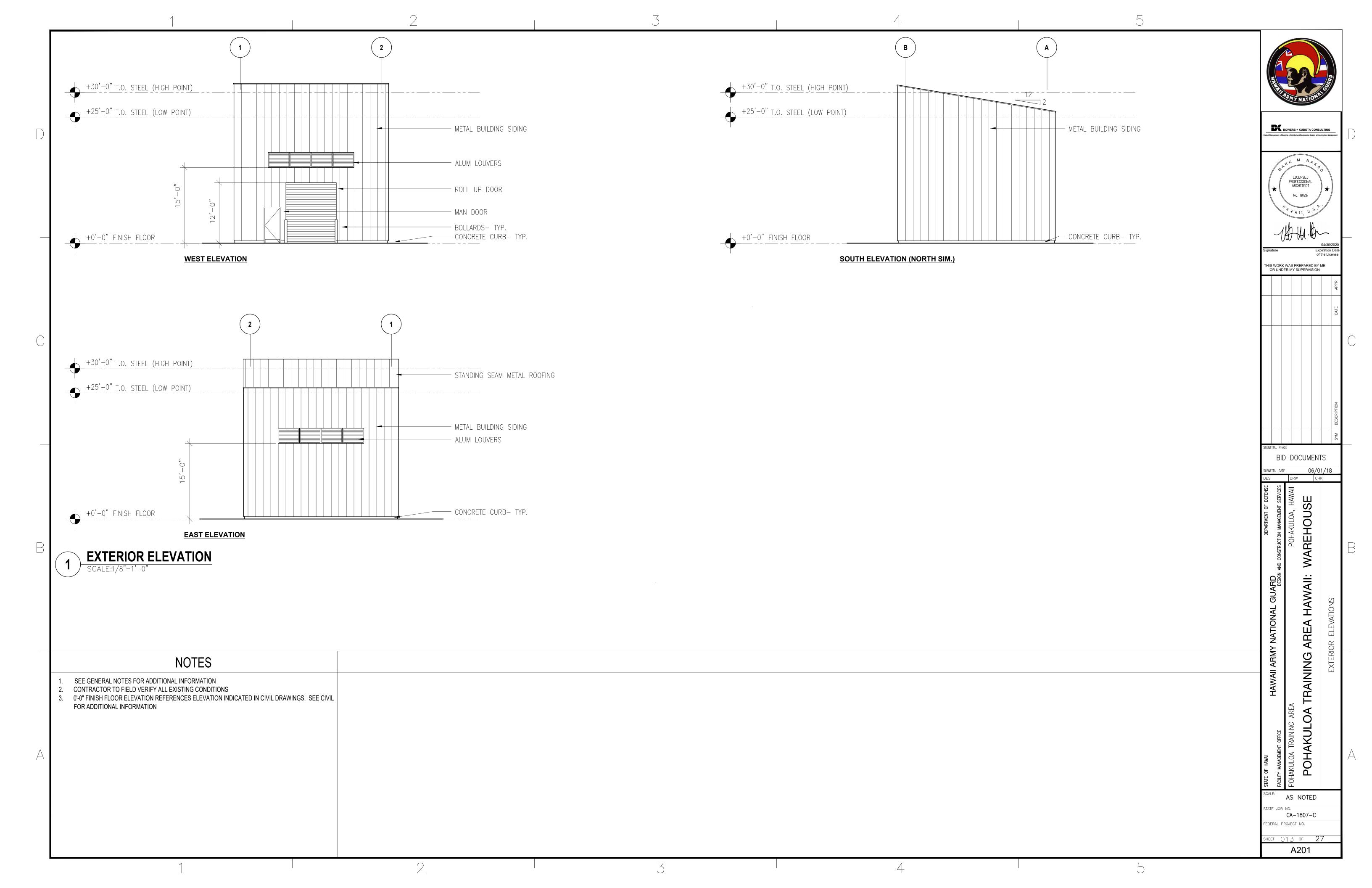
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		GENERAL NOTES		A	RCHITECTURAL A	ABBREVI	ATIONS	DRAWING SYN	IBOLS LEGEND		
QUALITY AND SC DETAILS ARE NO WORK WITH AN A STANDARDS AND STATE OF HAWAI DOCUMENTS. CL	DOCUMENTS REASONABLY DESCRIBE THE INTENT OF THE DPE OF THE CONSTRUCTION FOR THE PROJECT. WHERE SHOWN, THE CONTRACTOR SHALL PROCEED WITH THE CCEPTED QUALITY DEPICTED FROM CONTRACTOR PROCEDURES OF THE CONSTRUCTION INDUSTRY IN THE AS WELL AS THE GENERAL INTENT OF THE CONSTRUCTION ARIFICATION MAYBE SUBMITTED TO THE CONTRACTING VIEW BEFORE PROCEEDING.	21. ALL MATERIALS, ITEMS, NOTED IN THE DRAWINGS ARE "NEW" UNLESS NOTED OTHERWISE.  22. CONTRACTOR SHALL PATCH ALL SURFACES EXPOSED FROM CUTTING, AND OR REMOVAL WORK. PATCH SHALL MATCH THE MATERIAL AND FINISH OF ADJACENT SURFACES.  23. THE CONTRACTOR SHALL PROTECT ALL ITEMS, IN ADJACENT AREAS WITHIN THE PROJECT SITE FROM DAMAGE. DAMAGE TO BUILDINGS, LANDSCAPING,	"AS REQUIRED" INDICATES ITEMS OF WORK REQUIRED TO PROVIDE FOR A COMPLETE SYSTEM, ASSEMBLY OR COMPONENT AS INDICATED IN THE CONTRACT DOCUMENTS. ALL COMPONENTS OF THE NOTED SYSTEM SHALL BE PROVIDED, INSTALLED, COMPLETE AND READY FOR THE INTENDED USE.  "ALIGN" INDICATES ACCURATELY PROVIDE FINISH FACES OF MATERIALS IN STRAIGHT, TRUE, LEVEL AND/OR PLUMB RELATION TO ADJACENT SURFACES	ADJ AFF ACOUST ALUM AT  @ B	ADJUSTABLE ABOVE FINISH FLOOR ACOUSTICAL ALUMINUM ACOUSTICAL TILE AT	M MTD MAX MECH MET/MTL MFR/MFG MIN	MOUNTED MAXIMUM MECHANICAL METAL MANUFACTURER MINIMUM MIRROR	X DRAWING SCALE:XX:	DETAIL REFERENCE  3 TITLE	EN PROPER NATIONAL	Qd Link
CONTRACTOR SECONDITIONS PRICONTRACTIING CONTRACTION SECONTRACTOR SERVENT HIM/HE CONTRACTOR SERVENTS DUE TO	IALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, AND DR TO BEGINNING ANY WORK AND SHALL NOTIFY THE OFFICER OF ANY DISCREPANCY AND/OR CONDITION WHICH WILL RESPONSIBLE FOR ALL CORRECTIONS AND THEIR FAILURE TO DO SO.  ACTOR SHALL REVIEW ALL SHOP DRAWINGS AND	LAWN, HOSE BIBS, ETC., BY THE CONTRACTOR, THE CONTRACTOR'S EMPLOYEES, SUBCONTRACTORS AND EQUIPMENT, SHALL BE REPLACED AND/OR REPAIRED AT NO EXTRA COST TO THE GOVERNMENT.  24. ALL EXISTING ITEMS AND/OR FINISHES SCHEDULED TO REMAIN, BUT DAMAGED DURING CONSTRUCTION, SHALL BE CORRECTED TO MATCH THE EXISTING MATERIAL AND FINISHES AT NO EXTRA COST TO THE GOVERNMENT.  1.	WITHIN TOLERANCES DEFINED IN THE TECHNICAL SPECIFICATIONS.  REFERENCE DIVISION 01 OF THE PROJECT MANUAL FOR ADDITIONAL DEFINITIONS AND CLARIFICATIONS.  NSIONS:  SHALL HAVE PRECEDENCE OVER SCALE. DIMENSIONS SHALL BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH THE WORK.	BD BLDG BLK BLKG BM BOT	BOARD BUILDING BLOCK BLOCKING BEAM BOTTOM	MISC MTL  NIC NO OR # NTS (N)	MISCELLANEOUS METAL  NOT IN CONTRACT NUMBER NOT TO SCALE NEW	A A A B	NORTH ARROW	BOWERS + KUBOTA CONSULTI  Project Management • Planning • Architectural/Engineering Design • Constructor  M. N. A. T. P. LICENSED  PROFESSIONAL  ARCHITECT	VG n Management
COORDINATE TH AND MAKE INTER	E WORK OF THE VARIOUS TRADES TO FIT ACTUAL CONDITIONS FACING ADJUSTMENTS AS REQUIRED.	25. ALL WASTE MATERIALS SHALL BE PROMPTLY REMOVED AND PROPERLY DISPOSED OF OUTSIDE THE LIMITS OF STATE'S PROPERTY DAILY.  26. CONTRACTOR SHALL PROTECT ALL EXISTING SURFACES DURING	ALL DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO RENOVATION/FABRICATION.	CAR CAB CLG	CARPET CABINET CEILING	<u>O</u> OC OPP	ON CENTER OPPOSITE	D AB B	INTERIOR ELEVATION DESIGNATION	No. 8026	
SPECIFICATIONS SHALL BE HELD F  SOME NOTES ON LANDSCAPE, STF	WN AND/OR SPECIFIED IN THE DRAWINGS AND SHALL BE VERIFIED BY THE CONTRACTOR. CONTRACTOR ULLY RESPONSIBLE FOR ALL QUANTITIES.  THE ARCHITECTURAL SHEETS MAY REQUIRE CIVIL, UCTURAL, MECHANICAL, AND/OR ELECTRICAL WORKS. IT IS ONTRACTOR'S RESPONSIBILITY TO COORDINATE FOR	CONSTRUCTION. THE COST FOR MATERIAL, LABOR, INSTALLATION AND REMOVAL SHALL BE INCLUDED IN THE SCOPE OF WORK. ALL DAMAGES SHALL BE REPAIRED AND/OR REPLACED TO MATCH ADJACENT SURFACES AND TO THE SATISFACTION OF THE CONTRACTING OFFICER.  THE CONTRACTOR WITH THE SUPERVISION OF THE CONTRACTING OFFICER SHALL INSPECT AND NOTE ALL EXISTING DAMAGES PRIOR TO THE START OF	(E) MEANS "EXISTING". CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS AND CONFIRM SIZES PRIOR TO RENOVATION/FABRICATION.  OTHER DIMENSIONS AND SIZES PROVIDED IN THE DRAWINGS ARE TO INDICATE GENERAL SCOPE OF WORK. CONTRACTOR SHALL VERIFY DIMENSIONS AND SIZES FOR PROPER FIT, CONSTRUCTION, INSTALLATION AND OPERATION.	CLG Q CLR CMU CNTR COL	CENTER LINE CLEAR CONCRETE MASONRY UNIT COUNTER COLUMN	PEMB PLAM PLYWD PT	PRE-ENGINEERED METAL BUILDING PLASTIC LAMINATE PLYWOOD PAINT	CD BC C KEY TO INT ELEV			ation Date E License
COMPLETE WOR WHERE WARRAN COMPLIANCE OF MANUFACTURER VARY FROM THE CONTRACTOR IS PROVIDED REQU	TIES ARE SPECIFIED, CONTRACTOR'S BID SHALL INCLUDE FULL ALL CONDITIONS REQUIRED BY THE WARRANTIES. WHERE THE S WARRANTY REQUIREMENTS AND/OR RECOMMENDATION REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS, THE EXPECTED TO COMPLY WITH THE STRICTER OF THE TWO REMENTS DO NOT VOID WARRANTY. CONTRACTOR SHALL	WORK. ANY NEW DAMAGES RESULTING FROM THE CONSTRUCTION SHALL BE CORRECTED AT THE CONTRACTOR'S COST.  THE CONTRACTOR SHALL VISIT THE SITE, COMPARE THE DRAWINGS AND SPECIFICATIONS AND VERIFY ALL CONDITIONS IN ORDER TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE INTENT OF THE DRAWINGS.  BEFORE ANY SERVICE IS DISCONNECTED OR INTERRUPTED, THE CONTRACTOR SHALL VERIFY USAGE AND ASSURE THAT REQUIRED SERVICES ARE NOT		CONC CONT CPT CT D DC DEMO	CONCRETE CONTINUOUS CARPET CERAMIC TILE  DISPLAY CASE DEMOLISH	PTD  R R R R R R R R R R R R R R R R R R	PAPER TOWEL DISPENSER  RUBBER BASE ROOF DRAIN REFRIGERATOR REQUIRED	OFPICE 101	GRID LINE  ROOM NAME	OR UNDER MY SUPERVISION	DATE APPR
CONSTRUCTION THE CONTRACTO AROUND THE PR ALL TIMES. THE CONTRACTO BACKING, BRACK	TRACTING OFFICER IN WRITING WHERE PROPOSED WILL DEVIATE FROM THE CONSTRUCTION DOCUMENTS.  R SHALL PROVIDE AND MAINTAIN A SAFETY BARRICADE DJECT SITE AND SHALL ASSURE THE SAFETY OF THE PUBLIC AT  R SHALL BE RESPONSIBLE FOR PROVIDING ALL BLOCKING, ETS, ETC. AS REQUIRED FOR THE PROPER AND SECURED FALL MATERIALS AND PRODUCTS.	DISCONNECTED OR INTERRUPTED. ANY REQUIRED SERVICE DISCONNECTED OR INTERRUPTED SHALL BE RESTORED IMMEDIATELY BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.  30. CONTRACTOR SHALL SUBMIT IN WRITING ANY REQUEST FOR MODIFICATION TO THE PLANS AND SPECIFICATIONS. UNLESS CHANGES ARE SUBMITTED IN WRITING AND APPROVED BY THE CONTRACTING OFFICER, CHANGES OR MODIFICATIONS TO THE PLANS AND SPECIFICATIONS BECOME THE		DET DF DIA OR Ø DIM DISP DN DR DS DWG	DETAIL DRINKING FOUNTAIN DIAMETER DIMENSION DISPOSABLE DOWN DOOR DOWNSPOUT DRAWING	REV RF RM RO RPTD/WR	REVISION/ REVISED RESILIENT FLOOR ROOM ROUGH OPENING RECESSED PAPER TOWEL DISPENSER/ WASTE RECEPTACLE	01 A-01 A-01	ROOM NO.  DETAIL REFERENCE BUILDING SECTION BUILDING ELEVATION  SHEET NO.		NO
ITEMS AND PROVIDELAYS TO THE CONTRACT, REQUIREMENTS, SHALL HAVE PREBETWEEN THESE DOCUMENTS OR SHALL BE BROUGHMEDIATELY FO	R SHALL REVIEW THE PROJECT FOR ANY LONG LEAD IDE SPECIAL CONSIDERATIONS TO AVOID UNNECESSARY COMPLETION OF THE PROJECT.  ADDENDA, SUPPLEMENTAL CONDITIONS, GENERAL GENERAL CONDITIONS, AND TECHNICAL SPECIFICATIONS CEDENCE OVER THESE GENERAL NOTES. ANY CONFLICT GENERAL NOTES AND LANGUAGE FOUND IN THE ABOVE IN THE DRAWINGS OR IN ANY OTHER CONTRACT DOCUMENT HT TO THE ATTENTION OF THE CONTRACTING OFFICER R FURTHER CLARIFICATION.	RESPONSIBILITY OF THE PERSON INITIATING SUCH CHANGES.  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 THIS CHAPTER. 2012 NFPA 1.  THE CONTRACTOR SHALL PROTECT ALL ITEMS IN AND ABOVE GROUND WITHIN THE PROJECT SITE AND ADJACENT PROPERTIES FROM DAMAGES. DAMAGES TO BUILDINGS, SIDEWALKS, UTILITY LINES (PLUMBING, ELECTRICAL, TELEPHONE, DATA, ETC.), LANDSCAPING, LAWN, HOSE BIBS, ETC., BY THE CONTRACTOR, THE CONTRACTOR'S EMPLOYEES, SUBCONTRACTORS, AND EQUIPMENT SHALL BE REPLACED AND/OR REPAIRED AT NO ADDITIONAL COST TO THE STATE. THE CONTRACTOR IS ALSO		DWR  E EA EL ELEC ELEV EQ (E) EXIST EXT	DRAWER  EACH ELEVATION ELECTRICAL ELEVATOR EQUAL EXISTING EXISTING EXTERIOR	S SC SD SST SCHED SECT SHT SIM SL SQ SST	SOLID CORE SOAP DISPENSER STAINLESS STEEL SCHEDULE SECTION SHEET SIMILAR SLOPE SQUARE STAINLESS STEEL	A-Q1	DETAIL REFERENCE DETAILED OBJECT SHEET NO.	SUBMITTAL PHASE  BID DOCUMENTS  SUBMITTAL DATE 06/01/ DES DRW CHK  HYWYHI HYWYHI DATE OF CHK	/18
INCLUDE ALL COI SATISFYING THE IN THE CONTRAC	DITIONS OF THE CONTRACT AND/OR GENERAL REQUIREMENTS	RESPONSIBLE TO RESTORE THE GROUNDS (GRASSING AND LANDSCAPE IRRIGATION) AND CONCRETE WALKWAYS USED FOR PARKING AND STAGING.  THIS PROJECT SHALL CONFORM TO THE CURRENT ABA STANDARDS FOR ACCESSIBLE DESIGN.		E FEC FF FL/FLR FR	FIRE EXTINGUISHER CABINET FINISH FLOOR FLOOR FRAME	STL STOR STRL/STRU SUSP	STANDARD STEEL STORAGE JCTSTRUCTURAL SUSPENDED	01 A-01 SECTION REFERENC	Ε	CONSTRUCTION MANAGEMEN POHAKULOA,	
FOR ANY OCCUPA CONSTRUCTION.  REFERENCE THE REGARDING REQ FIELD CONDITION	DITIONS OF THE CONTRACT AND/OR GENERAL REQUIREMENTS ANCY RESTRICTIONS OR REQUIREMENTS DURING  CONTRACT AND/OR GENERAL REQUIREMENTS  JIREMENTS FOR DOCUMENTATION AND REPORTING OF S BY THE CONTRACTOR. CONTRACTOR SHALL TH THE CONTRACT DOCUMENTS.			FT FLUOR <u>G</u> GA GC	FOOT OR FEET FLUORESCENT  GAUGE GENERAL CONTRACTOR	T&G TB †BD THK THRU TMK TPH	TONGUE AND GROOVE TACK BOARD TO BE DETERMINED THICK THROUGH TAX MAP KEY TOILET PAPER HOLDER	<u> </u>	SION NUMBER ERIAL	ONAL GUARD DESIGN AND A HAWAII: V	SYMBULS, 1ATIONS
REQUIREMENTS	DITIONS OF THE CONTRACT AND/OR GENERAL REGARDING COORDINATION OF THE WORK OR OTHER NATION REQUIREMENTS.	FINISH NOTES:		GL GYP <u>H</u>	GRID LINE GYPSUM	TSC TYP	TOILET SEAT COVER TYPICAL	PI 1 FINIS	H SELECTION	MY NATION A A A A A A A A A A A A A A A A A A A	DKAWIING - ABBREV
"STRUCTURAL" S	NS ARE INDICATED TO THE TOP SURFACE OF THE  ABE INDICATED FROM ELOOP ELEVATIONS TO THE FINISH	ALL CONDUIT, JUNCTION BOXES, RACEWAYS, AND OTHER EXPOSED ELECTRICAL ITEMS TO BE PAINTED SHALL MATCH ADJACENT SURFACES.	0	/	HANDICAPPED VR HARDWARE HAWAII AIR NATIONAL GUARD	<u>U</u> UL UON	UNDERWRITER'S LABORATORIES UNLESS OTHERWISE		E NUMBER	WAII ARI	NOIES, TECTURAL
FACE OF SUSPEN INDICATED OR SO		2. ALL STRUCTURAL SUPPORTS AND ATTACHMENTS, IE. UNISTRUT, ATTACHMENTS, BOLTS, WOOD/ STEEL SUPPORTS, ETC. TO BE PAINTED SHALL MATCH ADJACENT SURFACES.  3. ALL EXPOSED MECHANICAL DUCTS/ ENCLOSURES TO BE PAINTED SHALL MATCH		HR H/HT/HG1 HS	HOUR HEIGHT HAND SINK	UR V	NOTED URINAL	L LOUVER NU	JMBER	HA REA A TRA	SENERAL ARCHII
CLEARANCES, AN SYSTEMS, ASSEM	WN ON THE DRAWINGS SHALL INDICATE THE REQUIRED SIZES, D DIMENSIONAL RELATIONSHIPS BETWEEN PROJECT IBLIES AND COMPONENTS. DIMENSIONS SHALL NOT BE SCALING THE DRAWINGS.	ADJACENT SURFACES.  4. ALL ITEMS INDICATED ABOVE TO BE PAINTED SHALL MATCH ADJACENT SURFACES UNLES	SS	HWY <u>L</u> INSUL	HIGHWAY INSULATION	VERT VCT VIF	VERTICAL VINYL COMPOSITION TILE VERTIFY IN FIELD	1 WINDOW NU	JMBER	RAINING A	
DEPENDENT ON TRESPONSIBLE TO ACCOMMODATE	NT OR COMPONENTS HAVE DIMENSIONAL VARIATION THE SELECTED MANUFACTURER, THE CONTRACTOR SHALL BE COORDINATE ADJOINING CONSTRUCTION TO THE SELECTED MANUFACTURER'S REQUIREMENTS.	. "TYPICAL" OR "TYP." INDICATES IDENTICAL COMPLETE SYSTEM, ASSEMBLY OR COMPONENT SHALL BE PROVIDED FOR EACH OCCURRENCE OF THE CONDITION		INT <u>J</u> JB <u>L</u>	INTERIOR  JUNCTION BOX	W WB W/WT WC WR	WHITE BOARD WIDTH WATER CLOSET WASTE RECEPTICLE		TITION TYPE	STATE OF HAWAII FACILITY MANAGEMENT POHAKULOA T POHA	
REQUIREMENTS  "REPLACE" MEAN TO MATCH THE E QUALITY, CONST	SION 01 OF THE PROJECT MANUAL FOR ADDITIONAL FOR COORDINATION OF DRAWINGS AND DIMENSIONS.  S TO REMOVE EXISTING AND TO PROVIDE AND INSTALL ITEM XISTING DESIGN SUCH AS MATERIAL, THICKNESS, COLOR, RUCTION, ETC., UNLESS OTHERWISE DETAILED OR NOTED. IALL FIELD VERIFY EXISTING CONDITIONS AND DESIGN PRIOR	NOTED.  "SIMILAR" INDICATES COMPLETE SYSTEM, ASSEMBLY AND COMPONENTS SHALL BE PROVIDED, INCLUDING ANY ADJUSTMENTS REQUIRED DUE TO VARIATION AT A PARTICULAR CONDITION, RESULTING IN COMPARABLE CHARACTERISTICS FOR THE "SIMILAR" CONDITION NOTED. THE CONTRACTING OFFICER SHALL BE THE SOLE JUDGE OF A SIMILAR CONDITION'S COMPLIANCE WITH THE DESIGN INTENT.		LAM LAV	LAMINATED LAVATORY	W/ W/O	WITH WITHOUT			SCALE: AS NOTED  STATE JOB NO. CA-1807-C  FEDERAL PROJECT NO.  SHEET 08 OF 27  A001	

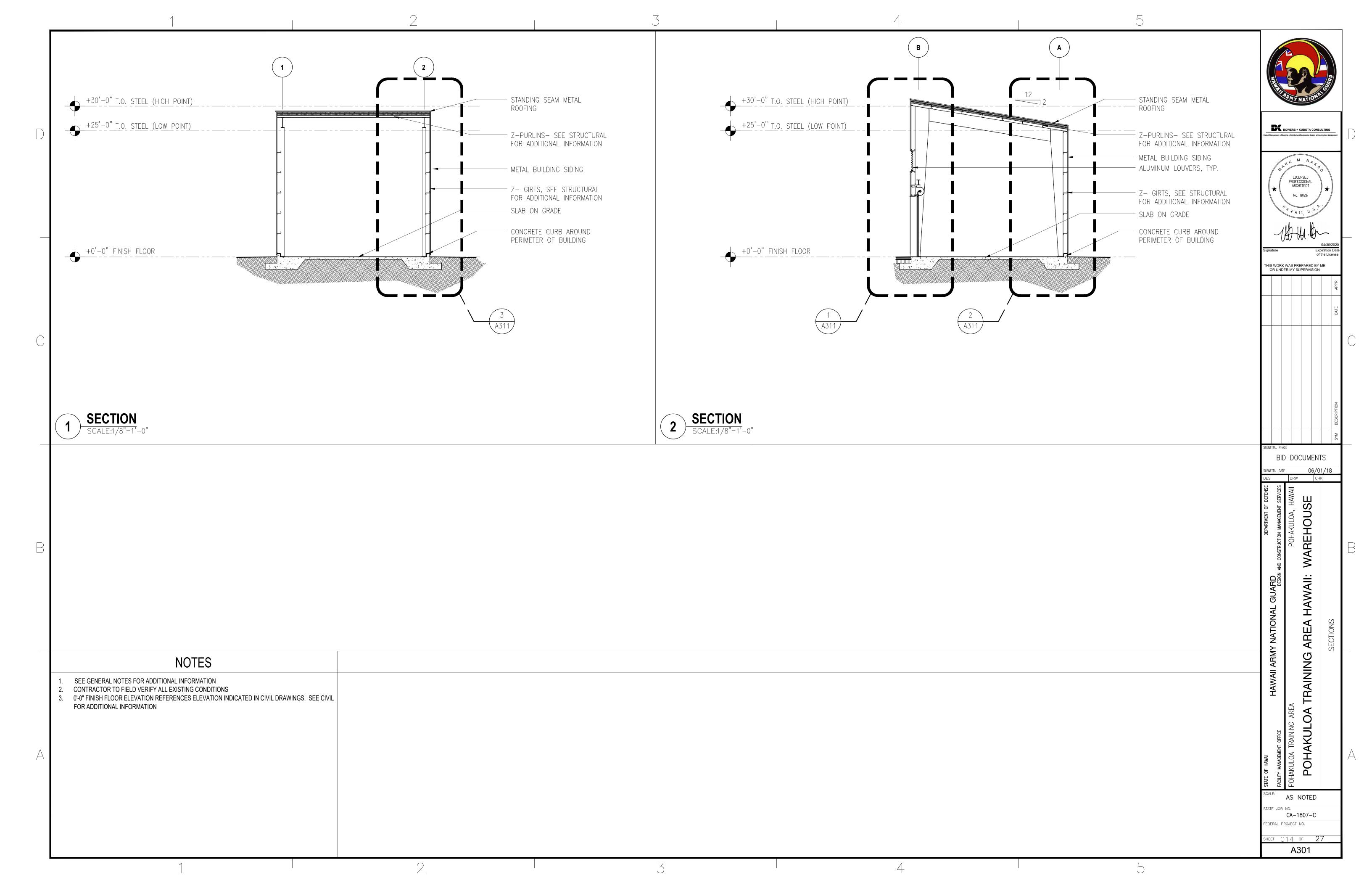


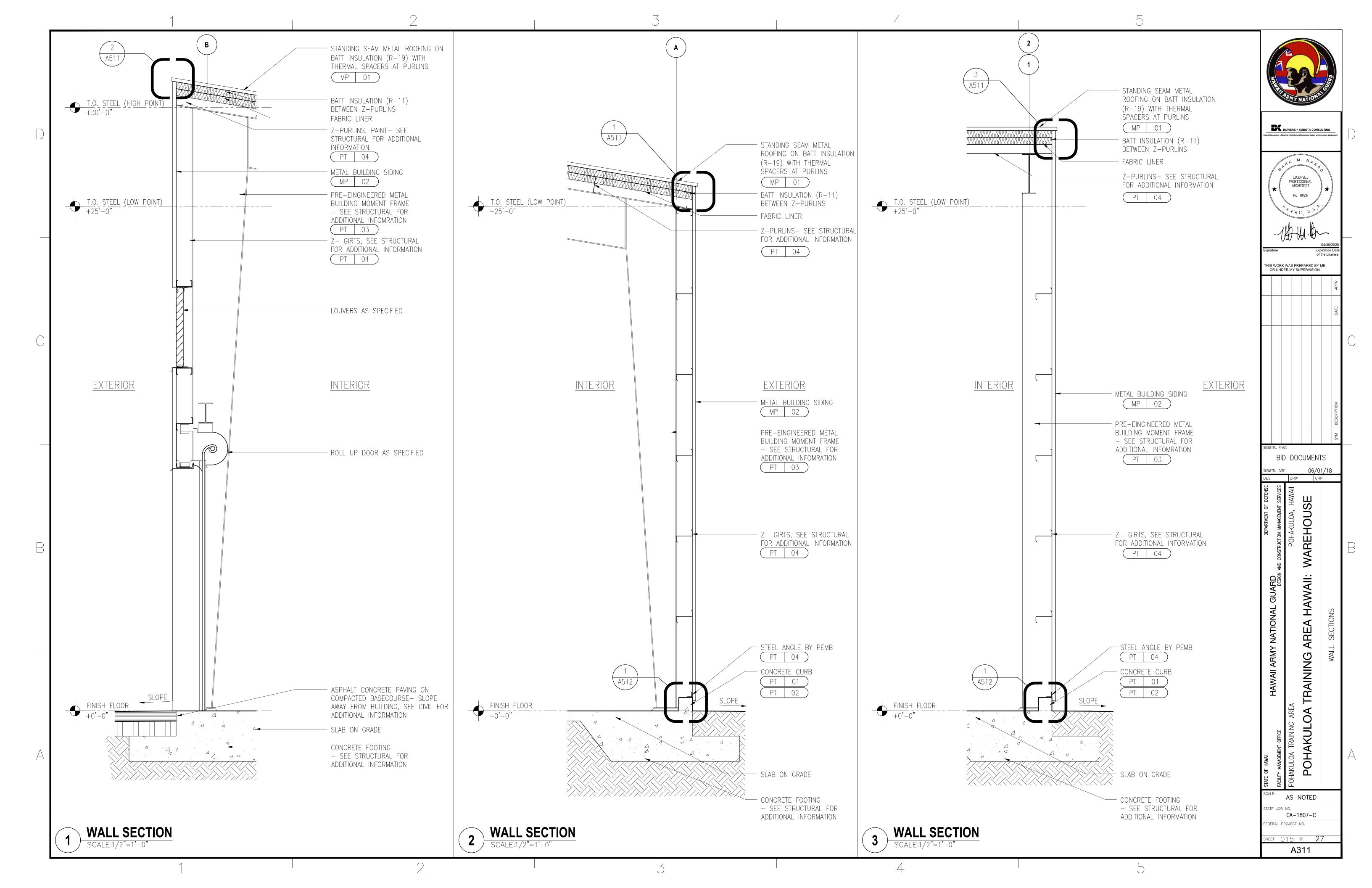


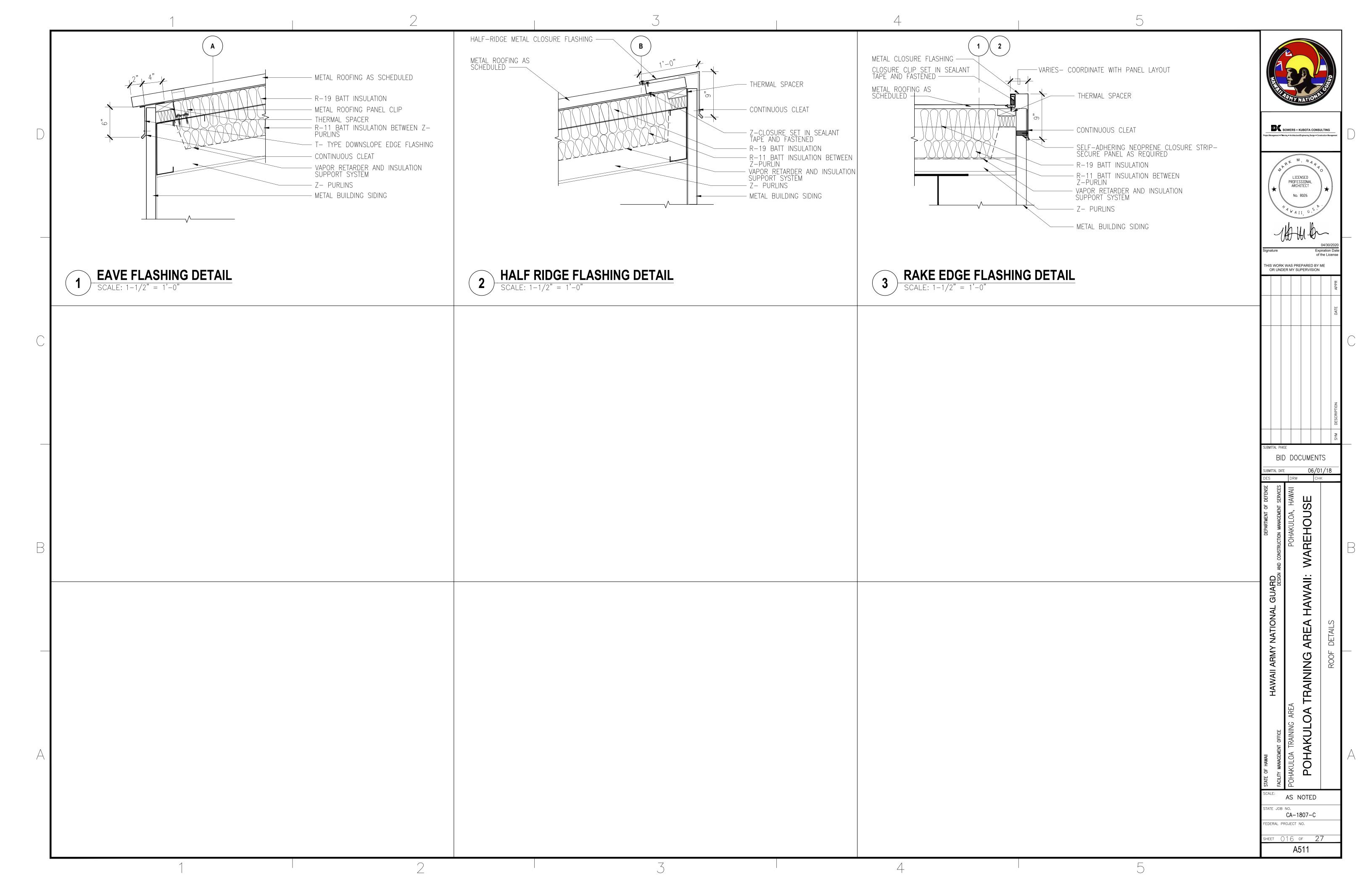


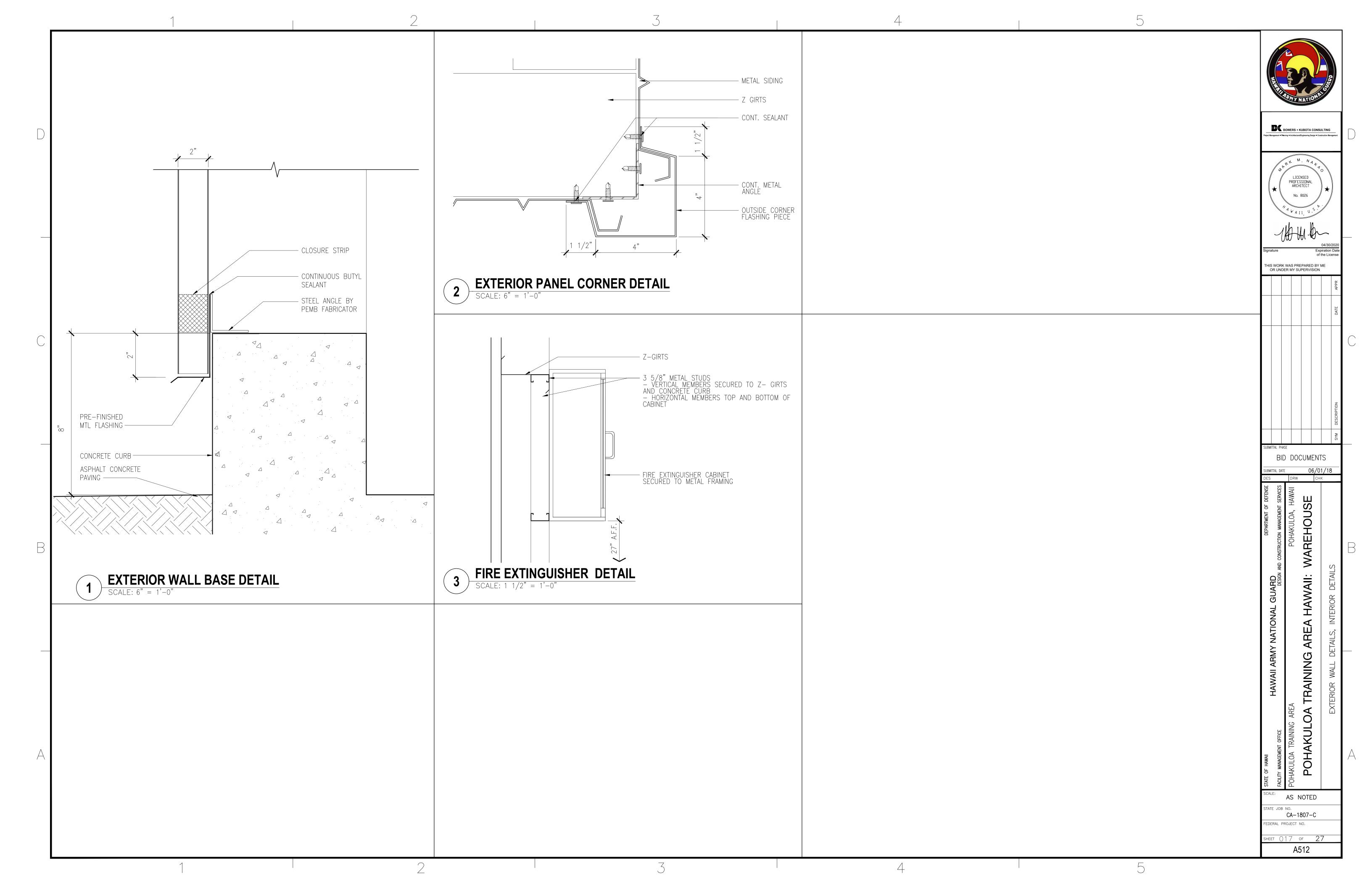


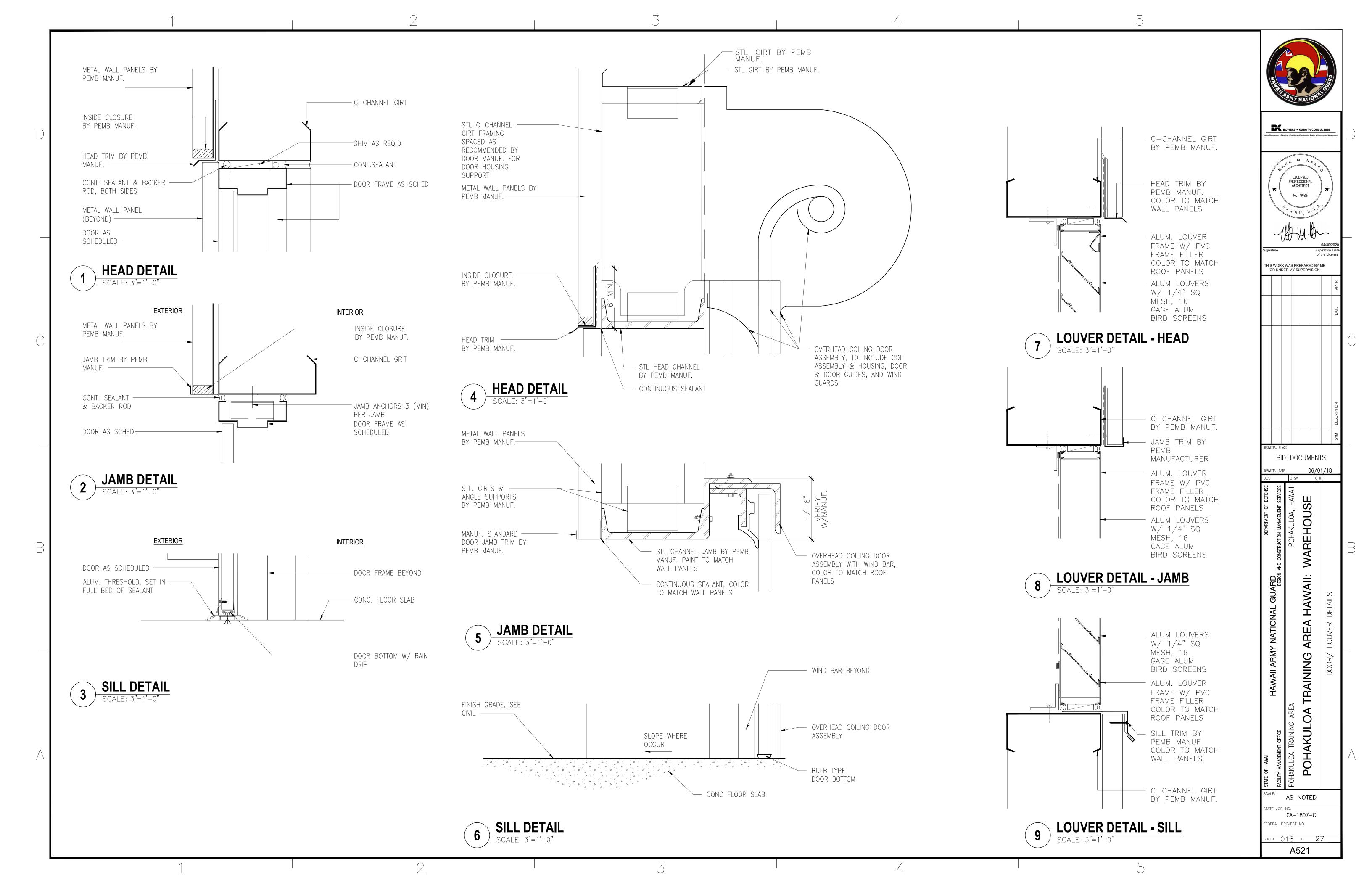


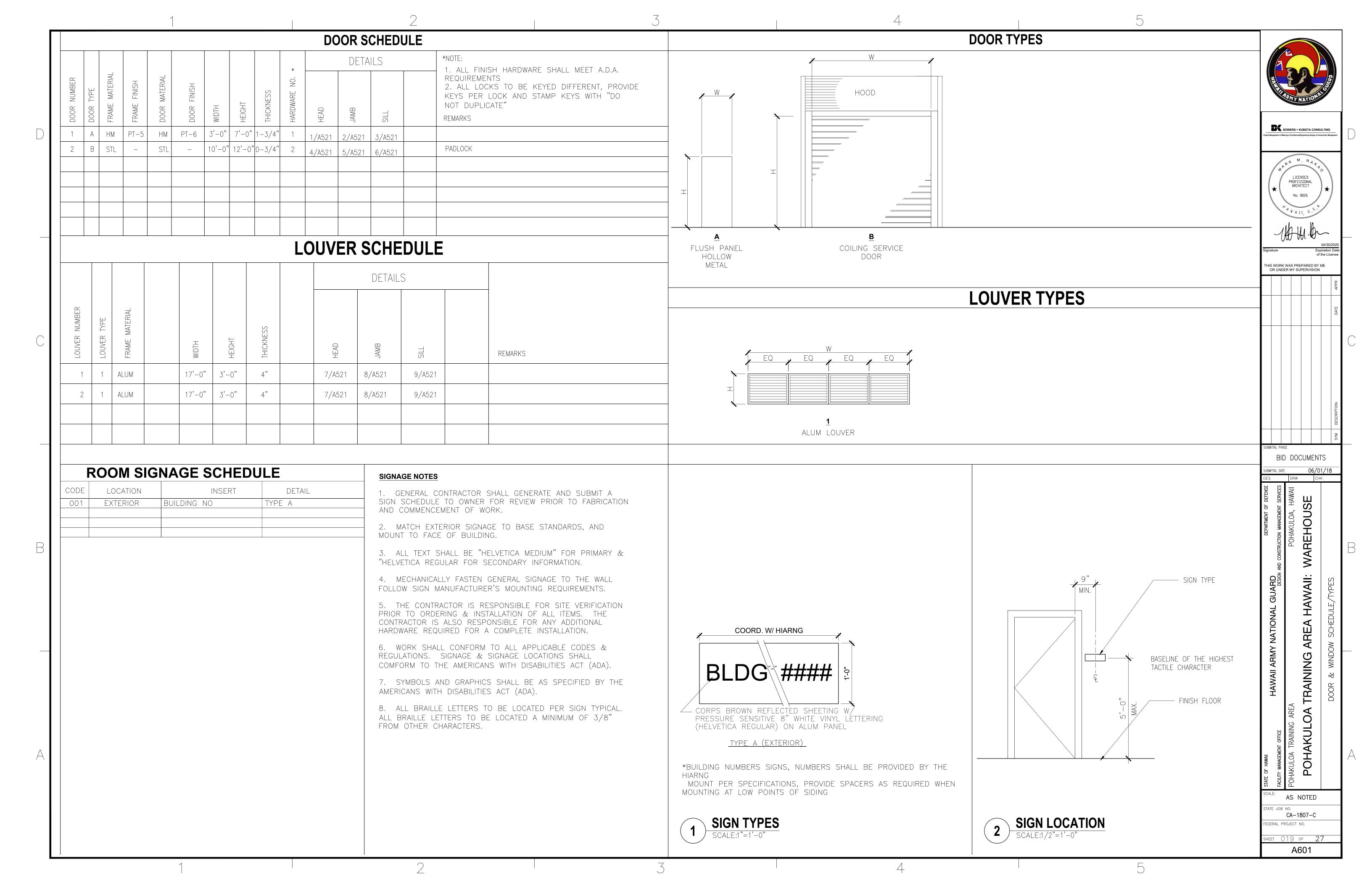


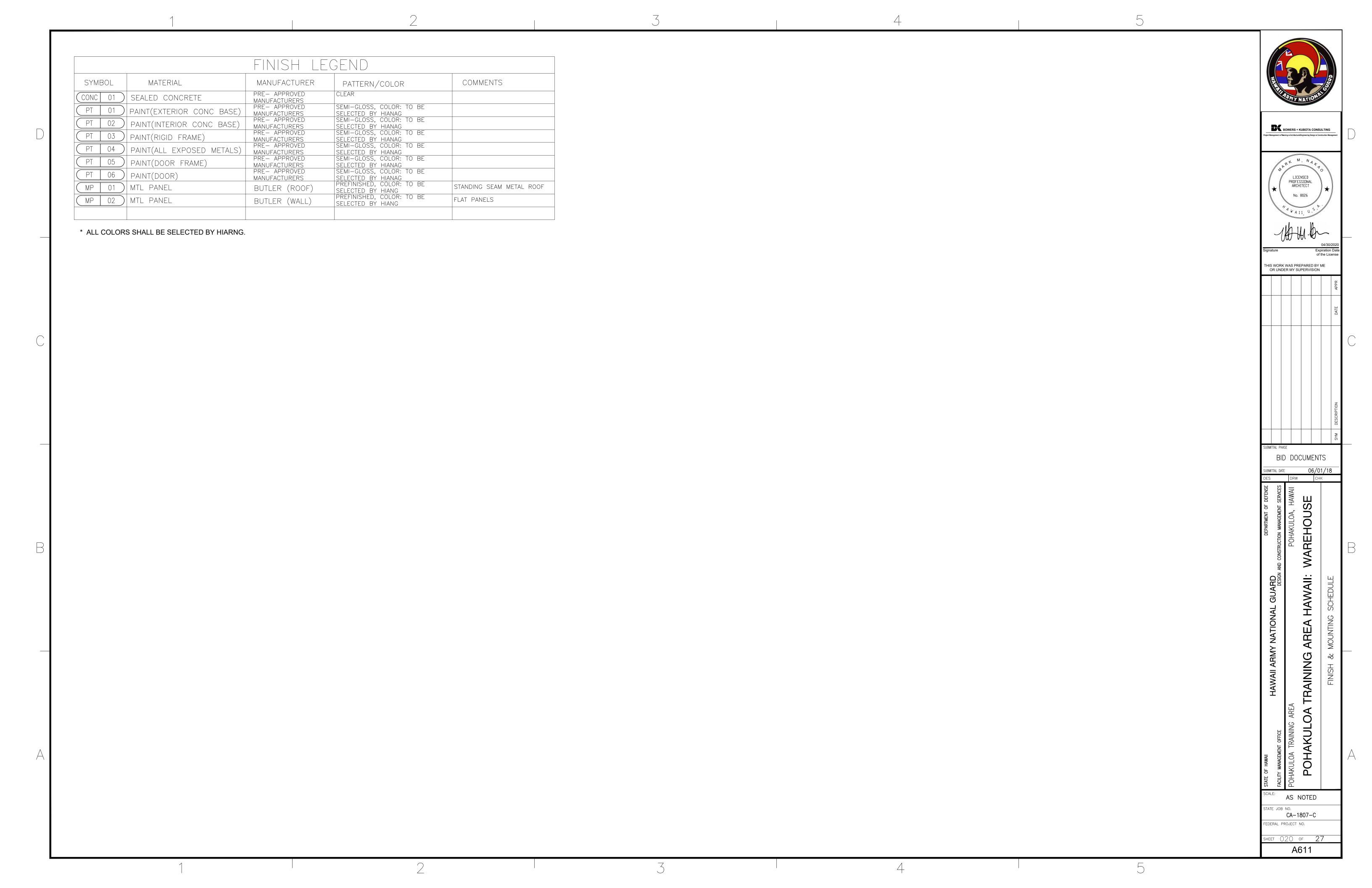












- 2. THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, WIND AND SEISMIC LOADING. ALL SHORING AND BRACING SYSTEMS SHALL BE DESIGNED BY A LICENSED STRUCTURAL ENGINEER HIRED AND PAID FOR BY THE CONTRACTOR. OBSERVATION VISITS TO THE SITE BY THE CONTRACTING OFFICER AND GOVERNMENT'S A/E SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS NOR RELIEVE THE CONTRACTOR OF HIS/HER OBLIGATIONS, DUTIES AND RESPONSIBILITIES.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING AND PROTECTION OF PROPERTY AND UTILITIES.
- 4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS INCLUDING EXISTING STRUCTURES. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE CONTRACTING OFFICER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
- 5. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS.
- SHOP DRAWINGS REQUIRED BY THE SPECIFICATIONS SHALL BE SUBMITTED TO THE CONTRACTING OFFICER FOR REVIEW PRIOR TO FABRICATION. PHOTOCOPIES OR DUPLICATES OF CONTRACT DOCUMENTS SUBMITTED AS SHOP DRAWINGS WILL BE REJECTED.
- 8. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL FLOOR AND WALL OPENINGS, FLOOR FINISHES, ETC.
- 9. SEE ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS REQUIRED FOR DUCTS, PIPES AND ALL PIPE SLEEVES, ELECTRICAL CONDUITS AND OTHER ITEMS TO BE EMBEDDED IN CONCRETE OR OTHERWISE INCORPORATED IN STRUCTURAL WORK. OPENINGS, POCKETS, ETC. LARGER THAN 6" SHALL NOT BE PLACED IN SLABS, BEAMS, WALLS, ETC., UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE CONTRACTING OFFICER WHEN DRAWINGS BY OTHERS SHOW OPENINGS POCKETS, ETC., LARGER THAN 6" NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS.
- 10. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOF.
- 11. DESIGN CRITERIA:
  - A. GENERAL STRUCTURAL DESIGN: 2015 INTERNATIONAL BUILDING CODE
- B. LIVE LOADS:

ROOF (FLAT TO LESS THAN 4:12) = 20 PSF

ALL LIVE LOADS REDUCIBLE. UON

C. WIND (ASCE 7-10):

= 130 MPHBASIC WIND SPEED RISK CATEGORY = || WIND EXPOSURE = C $K_{ZT} = 1.5$ 

D. SEISMIC (ASCE 7-10):

IMPORTANCE FACTOR = 1.00RISK CATEGORY = || = 1.50q= 0.60gSITE CLASS = 1.00q $S_{DS}$ 

= 0.60g

SEISMIC DESIGN CATEGORY = D 12. STRUCTURAL SPECIAL INSPECTION REQUIREMENTS:

ALL SPECIAL INSPECTIONS SHALL BE DONE PER IBC SPECIAL INSPECTIONS PROVISIONS OF SECTION 1704 OF THE 2015 INTERNATIONAL BUILDING CODE GOVERNING PORTIONS OF THE STRUCTURAL WORK SHOWN IN THE STRUCTURAL DRAWINGS.

= NOT REQUIRED A. CONCRETE B. REINFORCING STEEL = NOT REQUIRED

ANCHOR BOLTS = REQUIRED D. HIGH-STRENGTH BOLTS = REQUIRED

CONTRACTOR SHALL HIRE AND PAY FOR THIRD-PARTY SPECIAL INSPECTION AND TESTING SERVICES. SPECIAL INSPECTION SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS AND TO PROVIDE SAFETY ON SITE. CONTRACTOR SHALL NOTIFY SPECIAL INSPECTOR AT LEAST 2 DAYS IN ADVANCE FOR WORK TO BE PERFORMED REQUIRING SPECIAL INSPECTION. ALL SPECIAL INSPECTION REPORTS SHALL BE SUBMITTED TO CONTRACTING OFFICER WITHIN 72 HOURS.

13. SHOULD THERE BE CONFLICTS IN THE REQUIREMENTS BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL

#### **FOUNDATION**

- 1. THE FOUNDATION DESIGN IS BASED ON THE 2015 INTERNATIONAL BUILDING CODE, TABLE 1806.2, ITEM 4.
- 2. CONTRACTOR SHALL HIRE AND PAY FOR A GEOTECHNICAL ENGINEER.
- 3. FOUNDATION DESIGN PARAMETERS:

ALLOWABLE BEARING PRESSURE = 1,500 PSF W/ 1/3 INCREASE FOR SHORT DURATION LOADS SUCH AS WIND OR SEISMIC (ASSUMED)

LATERAL PASSIVE PRESSURE = 150 PCF

COEFFICIENT OF FRICTION = 0.25

SPECIAL CONSIDERATION SHALL BE GIVEN TO LAVA TUBES AND OTHER VOIDS THAT MAY BE ENCOUNTERED DURING FOUNDATION CONSTRUCTION. PROVIDE A MINIMUM OF ONE PROBE FOR VOIDS BELOW EACH COLUMN FOOTING AND EVERY 20 FEET OF WALL FOOTING. PROBE SHALL EXTEND A MINIMUM DEPTH OF 2 TIMES THE FOOTING WIDTH OR 10 FEET, WHICHEVER IS GREATER (FOR EXAMPLE, MINIMUM 24'-0" DEEP PROBE AT 12'-0" WIDE FOOTING). IF VOIDS ARE FOUND, FILL VOID WITH LEAN CONCRETE (f'c = 1,500 PSI). CONTRACTOR SHALL PROVIDE UNIT PRICE PER CUBIC YARD IF VOIDS ARE FOUND AND GROUTING IS REQUIRED.

- 4. FOOTINGS SHALL BE PLACED ON UNDISTURBED EXISTING SOIL. SHOULD SOIL ENCOUNTERED AT THESE DEPTHS APPEAR UNSTABLE AND VARY FROM EXPECTED CONDITIONS, THE CONTRACTOR'S GEOTECHNICAL ENGINEER SHALL BE NOTIFIED. FOOTINGS MAY BE ALTERED AS REQUIRED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER. REMOVE UNSATISFACTORY MATERIAL, INCLUDING ASH AND ORGANICS AND REPLACE WITH COMPACTED STRUCTURAL FILL AS REQUIRED.
- 5. STRUCTURAL FILL MATERIALS SHALL CONSIST OF WELL-GRADED GRANULAR MATERIALS 1-1/2 INCHES IN LARGEST DIMENSION WITH SUFFICIENT FINES TO PREVENT THE OCCURRENCE OF VOIDS IN THE COMPACTED MASS. THE EXCAVATED ON-SITE MATERIALS MAY BE RE-USED AS A SOURCE OF STRUCTURAL FILL MATERIALS, PROVIDED THAT THE MATERIALS ARE PROCESSED TO MEET MAXIMUM PARTICLE SIZE AND GRADATION REQUIREMENTS.
- 6. IF THE EXCAVATED ON-SITE MATERIALS DO NOT CONTAIN SUFFICIENT FINES TO PRODUCE A WELL-GRADED MATERIAL, OFF-SITE CRUSHING OF LARGE-SIZED ROCK FRAGMENTS OR BOULDERS SHOULD BE CONSIDERED TO PROVIDE THE REQUIRED GRADATION AND PARTICLE SIZES TO DEVELOP A WELL-GRADED MATERIAL.
- 7. STRUCTURAL FILL MATERIALS SHOULD BE PLACED IN LEVEL LIFTS NOT EXCEEDING 6 INCHES IN LOOSE THICKNESS, MOISTURE-CONDITIONED TO ABOVE THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 95 PERCENT RELATIVE COMPACTION.
- 8. UNLESS OTHERWISE NOTED, FOR FILL UNDER SLAB ON GRADE, USE A 4-INCH CUSHION LAYER OF CLEAN GRAVEL AND COMPACT TO A LEVEL SURFACE USING A VIBRATORY COMPACTOR. CUSHION LAYER SHALL CONFORM TO ASTM C33, NO. 67 GRADATION.
- 9. BACKFILL AROUND FOOTINGS AND FOUNDATIONS SHALL BE COMPACTED IN LAYERS BY PNEUMATIC TAMPER INTO A DENSE MASS.

- 10. FILL SHALL BE PLACED IN SUCCESSIVE LOOSE LAYERS 6 INCHES DEEP WHICH SHALL BE COMPACTED AT OPTIMUM MOISTURE CONTENT TO COMPACTION EQUAL TO OR BETTER THAN 95 PERCENT OF MAXIMUM DENSITY AS DETERMINED BY ASTM D1557.
- 11. BACKFILL BEHIND RETAINING WALLS (WITHIN 40 INCHES OF THE BACK OF WALL) SHALL BE LIMITED TO A MAXIMUM PARTICLE SIZE OF 1-1/2 INCHES TO FACILITATE COMPACTION OF THE BACKFILL USING HAND EQUIPMENT. BACKFILL SHALL BE COMPACTED BETWEEN 90 AND 95 PERCENT RELATIVE COMPACTION.
- 12. BACKFILL MATERIAL SHALL CONSIST OF NON-EXPANSIVE GRANULAR SOIL
- 13. FOR RETAINING WALLS WITH BACKFILL ON ONE SIDE, DO NOT PLACE BACKFILL UNTIL CONCRETE WALL HAS ATTAINED FULL DESIGN STRENGTH.
- 14. ALL EXCAVATIONS SHALL BE PROTECTED AND GUARDED BY THE CONTRACTOR AGAINST DANGER TO LIFE, LIMB AND PROPERTY. CONFORM TO EM 385-1-1 SAFETY AND HEALTH REQUIREMENTS MANUAL
- 15. SHORING, SHEETING, CRIBBING AND LAGGING, AS REQUIRED TO PRESERVE THE EXCAVATIONS, EARTH BANKS AND ADJACENT STRUCTURES AND PROPERTY FREE FROM THE DAMAGE RESULTING FROM THE WORK, SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. SUBMIT STRUCTURAL ENGINEER'S SHORING DESIGN AS REQUIRED FOR INFORMATION ONLY.

#### CONCRETE

- 1. CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 301, UON.
- 2. ALL CONCRETE UNLESS OTHERWISE NOTED SHALL BE NORMAL WEIGHT HARD ROCK TYPE (150#/CU. FT.) PORTLAND CEMENT SHALL CONFORM TO ASTM C150 TYPE I OR II. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND SHALL BE SUBMITTED TO THE CONTRACTING OFFICER FOR REVIEW.
- 3. SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTH AND TYPES:

FOUNDATIONS, SLAB-ON-GRADE, CURBS = 3,000 PSI

- CONCRETE MIX DESIGN SUBMITTAL SHALL STATE LOCATION OF STRUCTURE WHERE MIX IS USED. MIX DESIGN SHALL BE SUBMITTED TO CONTRACTING OFFICER FOR REVIEW PRIOR TO CONSTRUCTION. CONCRETE MIX DESIGN SHALL ACCOUNT FOR TRAVEL TIME AND TEMPERATURE CONDITIONS AT THE PROJECT SITE.
- 5. CLEAR COVERAGE OF CONCRETE OVER OUTER REINFORCING BARS SHALL BE AS FOLLOWS, UON:
  - A. CONCRETE DIRECTLY AGAINST EARTH = 3" CLEAR TO REINFORCING
- B. SLAB-ON-GRADE
- = 1" CLEAR AT TOP (INTERIOR), 1-1/2" CLEAR AT TOP (EXTERIOR)
- 6. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- 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 CONTRACTING OFFICER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS.
- CURING COMPOUNDS USED ON CONCRETE THAT IS TO RECEIVE AN ARCHITECTURAL FINISH SHALL BE APPROVED BY THE FINISH SUPPLIER BEFORE USE.
- 9. CONTRACTOR SHALL PROVIDE THE CONTRACTING OFFICER A SCHEDULE SPECIFYING CONCRETE POURS IN UPCOMING THREE WEEKS.
- 10. CONCRETE ADMIXTURES CONTAINING CHLORIDE OR CHLORIDE SALTS SHALL NOT BE USED.
- 11. ALL ROUGHENED SURFACES IN CONCRETE SHALL BE MADE WITH A MINIMUM AMPLITUDE OF 1/4".

#### REINFORCING STEEL

- REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 REQUIREMENTS OR ASTM A706 WHERE WELDING IS REQUIRED.
- 2. DOWELS BETWEEN FOOTING AND WALL SHALL BE THE SAME GRADE, SIZE AND SPACING OR NUMBERS AS THE VERTICAL REINFORCING RESPECTIVELY.

- 3. REINFORCING SPLICES SHALL BE MADE ONLY WHERE INDICATED ON THE
- 4. ANCHOR BOLTS, DOWELS AND OTHER EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED.
- 5. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- 6. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE "ACI DETAILING MANUAL - 2004" (SP-66) AS MODIFIED BY THE PROJECT DRAWINGS AND SPECIFICATIONS.
- CONTRACTOR SHALL SUBMIT REINFORCING BAR LAYOUTS AND DETAILS FOR CONTRACTING OFFICER'S REVIEW PRIOR TO FABRICATION. FABRICATE FROM REVIEWED DRAWINGS ONLY.
- WELDING OF REINFORCING STEEL IS NOT PERMITTED UNLESS OTHERWISE SHOWN ON THE DRAWINGS. WELDING OF REINFORCING STEEL SHALL CONFORM TO AWS D1.4 "AWS STRUCTURAL WELDING CODE - REINFORCING STEEL" OF THE AMERICAN WELDING SOCIETY.

#### PRE-ENGINEERED METAL BUILDING

- PRE-ENGINEERED METAL BUILDING (PEMB) DESIGN SHALL BE PROVIDED BY THE CONTRACTOR. DRAWINGS AND CALCULATIONS SHALL BE STAMPED AND SIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF HAWAII. REFER TO DESIGN CRITERIA IN GENERAL NOTES ON SHEET SOO1 AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- CONSTRUCTION DOCUMENTS PROVIDED BY NAGAMINE OKAWA ENGINEERS INC. ADDRESS THE DESIGN OF FOUNDATION SYSTEM. THE REMAINDER OF BUILDING DESIGN SHALL BE PROVIDED BY PEMB MANUFACTURER.

FOUNDATION SYSTEM SHOWN IS BASED ON LAYOUT OF COLUMNS AND LATERAL-FORCE-RESISTING SYSTEM INDICATED ON DRAWINGS. REVISION OF COLUMN LOCATIONS AND LATERAL-FORCE-RESISTING SYSTEM LOCATION WILL REQUIRE REVISION OF FOUNDATION SYSTEM AND MAY AFFECT FOOTING

- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND PEMB DESIGN CALCULATIONS TO CONTRACTING OFFICER FOR REVIEW PRIOR TO FABRICATION AND CONSTRUCTION OF FOOTINGS.
- 4. RIGID FRAME AND ASSOCIATED STRUCTURAL ROOF MEMBERS SHALL BE DESIGNED FOR DEAD LOAD (DL), LIVE LOAD (LL), WIND (WL), AND EARTHQUAKE LOAD (EQ), IN ACCORDANCE WITH GOVERNING BUILDING CODE.
- 5. ALL FRAMING SHALL BE PROVIDED BY PEMB MANUFACTURER AND SHALL SUPPORT ACCESS LADDER, ALL ROOF PANELS, BUILDING FINISHES, CEILINGS, PIPES, CONDUITS, DUCTS, EQUIPMENT, SPRINKLERS, NON-STRUCTURAL WALLS AND OTHER BUILDING ELEMENTS SHOWN ON ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. IN ADDITION TO LOADS FROM THESE ELEMENTS, 1 PSF COLLATERAL LOAD SHALL BE ADDED. THIS INCLUDES BUT IS NOT LIMITED TO MECHANICAL SUPPORT FRAMING AND TOP OF WALL BRACING. PURLINS AND GIRTS SHALL HAVE A MINIMUM THICKNESS OF 18 GAGE.
- 6. ALL FRAMING INCIDENTAL TO PEMB FRAMING INCLUDING BUT NOT LIMITED TO Z-GIRT BASE ANGLES, SHALL BE PROVIDED BY THE PEMB MANUFACTURER. ANCHORAGE DESIGN OF INCIDENTAL FRAMING SHALL BE PROVIDED BY PEMB MANUFACTURER. PEMB FRAMING CONNECTION TO CONCRETE OR CMU SHALL BE WITH EPOXY EMBEDDED ANCHOR RODS OR ICC APPROVED EXPANSION-TYPE ANCHORS. POWDER ACTUATED FASTENERS ARE NOT ALLOWED.
- 7. METAL ROOFING SHALL NOT BE USED TO SUPPORT SUSPENDED CEILINGS, UTILITY LINES, DUCTS, ROOF PANELS, ETC. METAL ROOFING SHALL HAVE A MINIMUM THICKNESS OF 22 GAGE.

#### **ABBREVIATIONS**

ARCH ARCHITECTURAL FTG **FOOTING** JT JOINT BEAM CLR CLEAR MANUF MANUFACTURER COL COLUMN MAXIMUM MAX CONC CONCRETE MINIMUM MIN CONT CONTINUOUS ON CENTER OC DITTO OUTSIDE DIAMETER DO PEMB PRE-ENGINEERED DWG(S) DRAWING(S) METAL BUILDING EACH REINF REINFORCING ELEV ELEVATION W/ REQD REQUIRED EACH WAY EW RIGID FRAME RF FF FINISH FLOOR

SLAB-ON-GRADE STD STANDARD T&B TOP AND BOTTOM THK(D) THICK(ENED) TYP TYPICAL UON UNLESS OTHERWISE NOTED VERT VERTICAL WITH

LICENSED PROFESSIONAL **ENGINEER** NO. 12107-S

BID DOCUMENTS

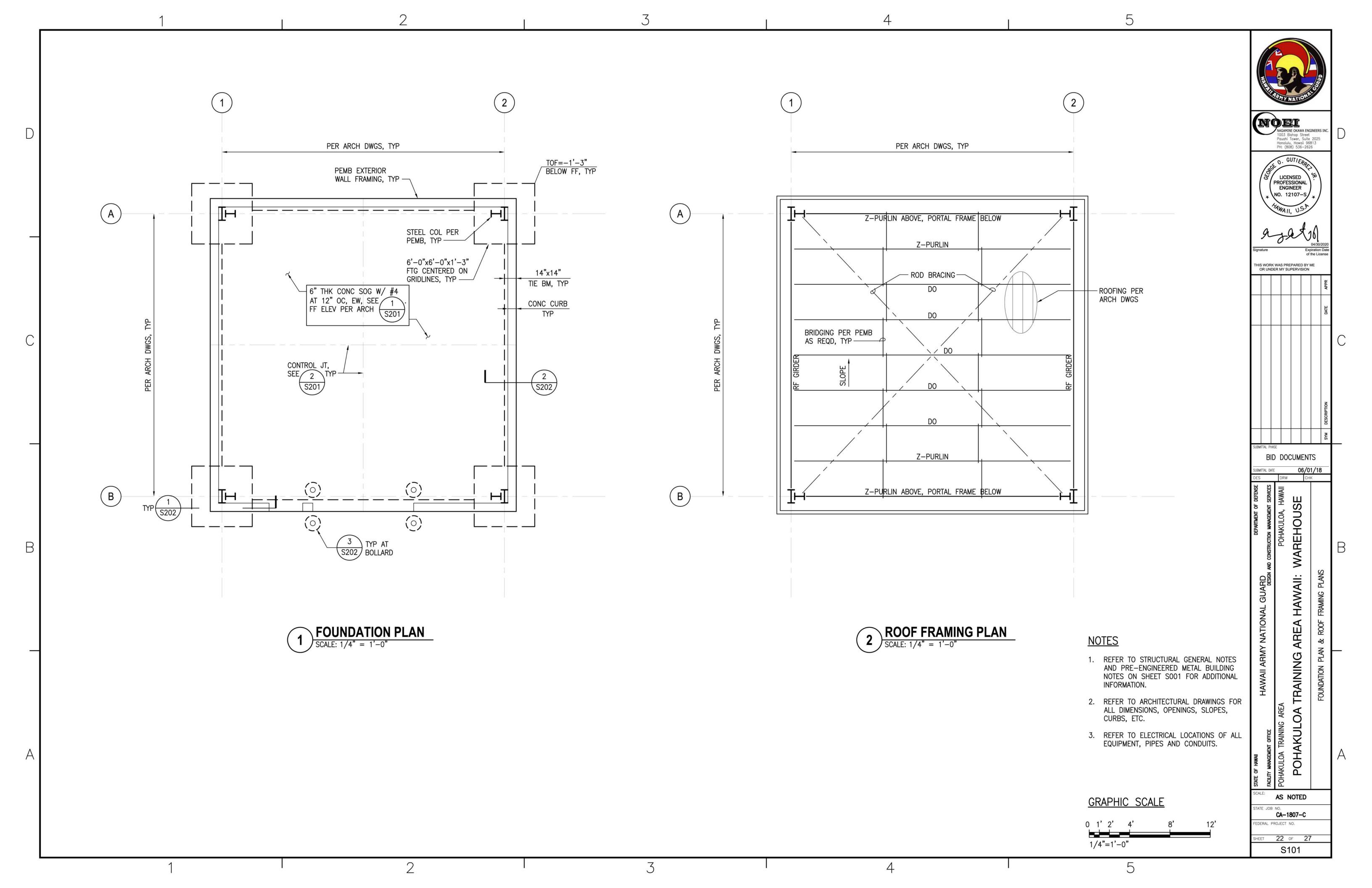
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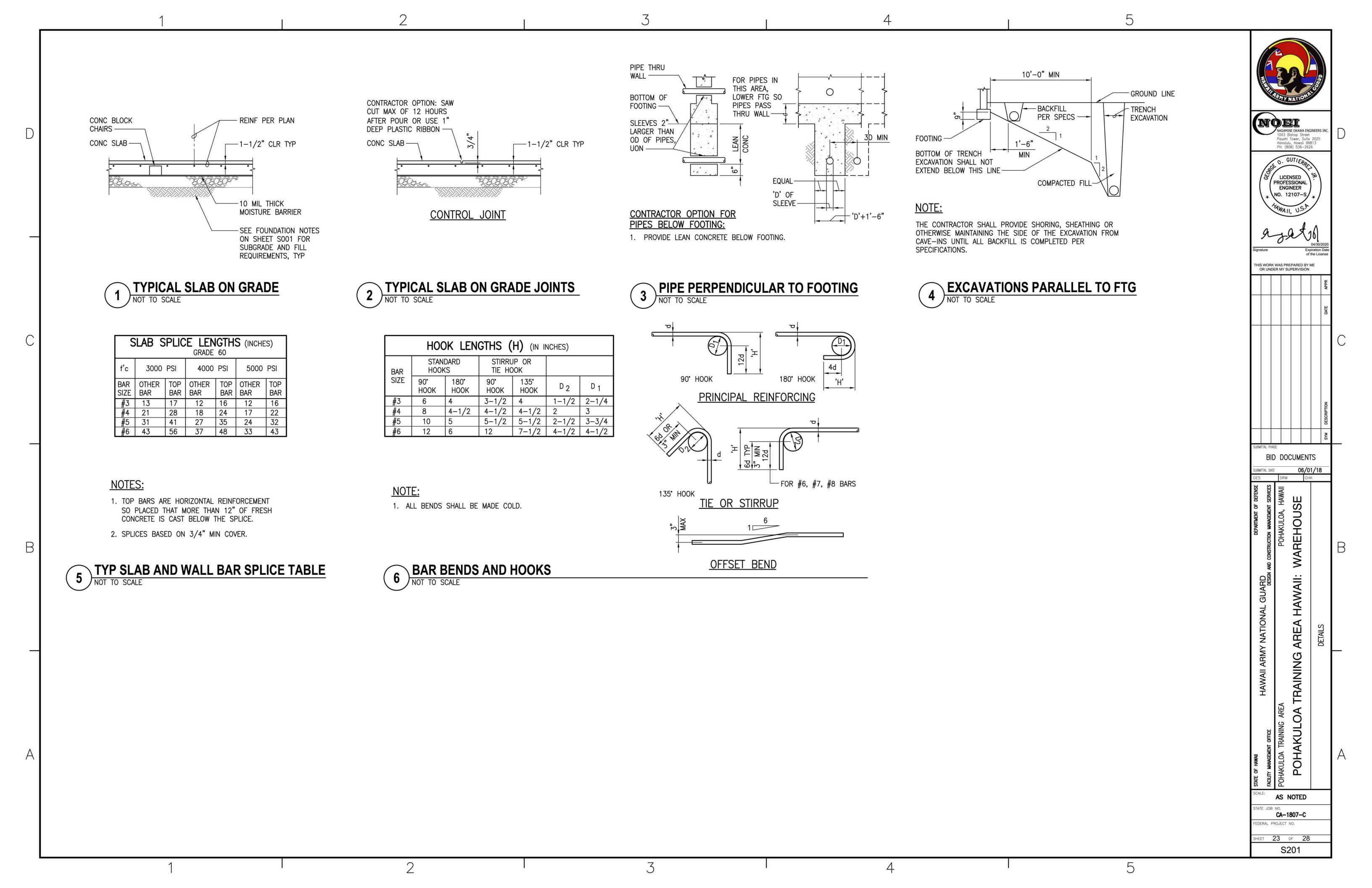
POHAKUL

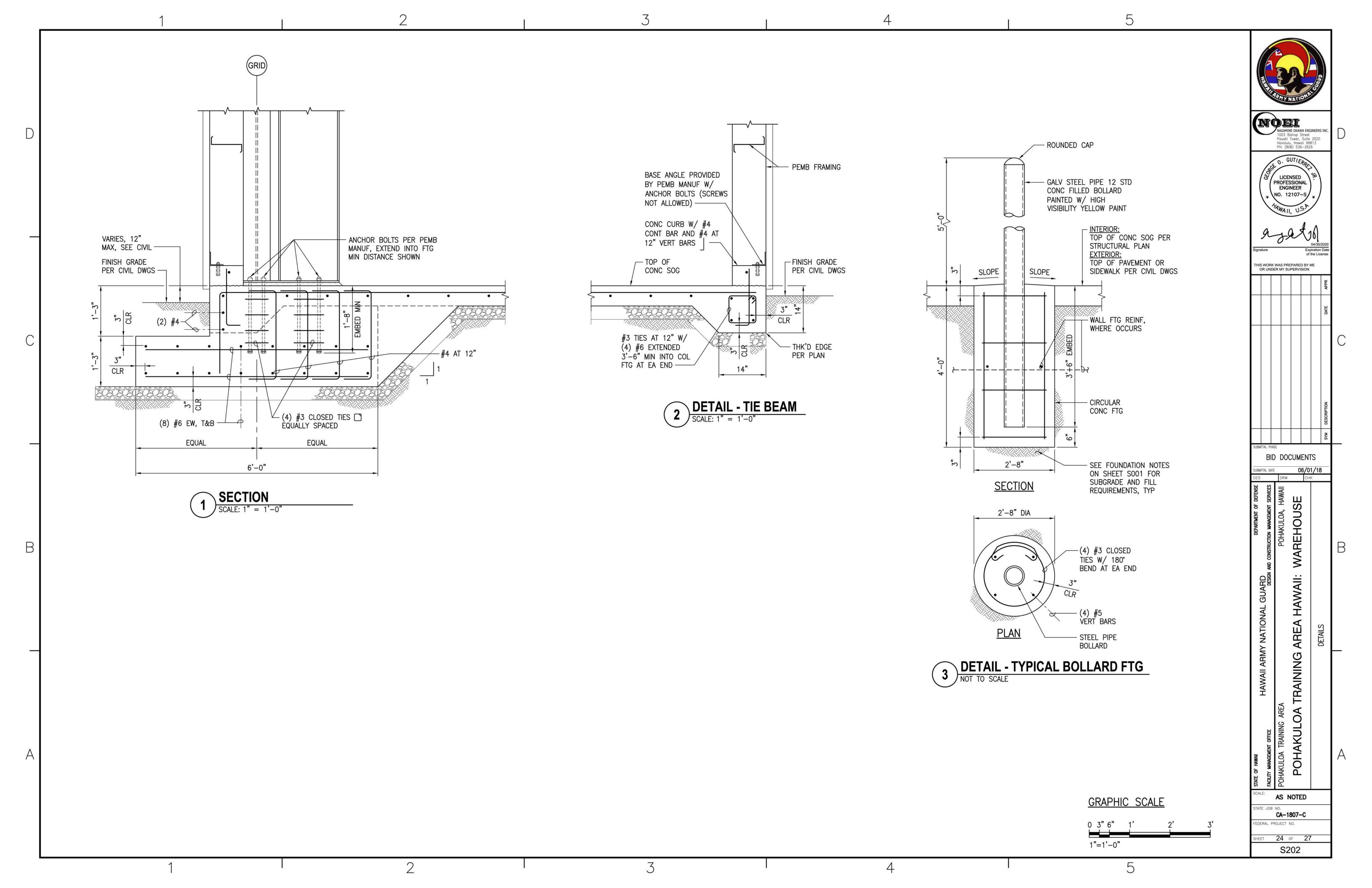
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**GENERAL ELECTRICAL NOTES:** ELECTRICAL SYMBOL LIST 1. ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS PRIOR TO BIDDING. BID SUBMISSION SHALL BE CONSIDERED AS CONFIRMATION THAT THE CONTRACTOR HAS VISITED THE SITE AND HAS RESOLVED ALL DISCREPANCIES AND QUESTIONS REGARDING THE WORK. NO EXTRA PAYMENT WILL BE GIVEN FOR WORK MADE NECESSARY BY THE CONTRACTOR'S FAILURE TO VISIT THE SITE. EXISTING NEW DESCRIPTION 2. ALL RACEWAYS AND OUTLETS IN OFFICE BUILDING SHALL BE CONCEALED UNLESS OTHERWISE NOTED. LIGHT, SURFACE MOUNTED. 3. CONDUIT SIZES INDICATED ON THE DRAWINGS ARE NOT NECESSARILY BASED ON THE MINIMUM SIZE ALLOWED BY THE NATIONAL ELECTRICAL NIGHT LIGHT, WALL MOUNTED. CODE AND MAY BE PURPOSELY OVERSIZED FOR FUTURE CONDUCTORS OR TO AVOID CONDUIT HEATING. CONDUIT SIZES NOT CALLED OUT ON SWITCH, FLUSH TUMBLER, WALL MOUNTED. THE DRAWINGS SHALL BE SIZED BY THE CONTRACTOR, BASED ON THE ACTUAL NUMBER OF CONDUCTORS TO BE INSTALLED, USING THE NATIONAL BOWERS + KUBOTA CONSULTING ELECTRICAL CODE AS A GUIDE. IN NO CASE SHALL CONDUIT SIZES BE SMALLER THAN 3/4" DIAMETER. INDICATES FIXTURE OR DEVICE CONTROLLED BY SW. "a", OTHER LETTERS SIMILAR. 4. ALL WIRING SHALL INCLUDE AN INSULATED GREEN GROUNDING CONDUCTOR SIZED PER TABLE 250.122 OF THE NATIONAL ELECTRICAL CODE. THIS JUNCTION BOX, CEILING MOUNTED. CONDUCTOR SHALL BE CARRIED IN ALL RACEWAYS INCLUDING THOSE INSTALLED FOR SWITCH LEGS AND SHALL BE ATTACHED TO THE DEVICE, LIGHT FIXTURE, OR EQUIPMENT HOUSING USING A SUITABLE GROUNDING LUG. JUNCTION BOX, WALL MOUNTED. 5. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL JUNCTION AND PULL BOXES REQUIRED FOR THE INSTALLATION OF ELECTRICAL DEVICES RECEPTACLE, DUPLEX, WALL MOUNTED, 20A, 125V, NEMA 5-20. LICENSED AND EQUIPMENT, WHETHER OR NOT SPECIFICALLY INDICATED ON THE PLANS. SIZING OF THESE BOXES SHALL BE PER THE NATIONAL ELECTRICAL PROFESSIONAL ELECTRIC PANEL. **ENGINEER** COMBINATION METER SOCKET & MAIN BREAKER. 6. PROJECT CONDITIONS MAY REQUIRE REARRANGEMENT OF ELECTRICAL WORK, THE CONTRACTOR SHALL INDICATE SUCH CHANGES ON THE No. 9058-AS-BUILT DRAWINGS. WHERE CHANGES REQUIRE ALTERNATE METHODS TO THOSE SPECIFIED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR RACEWAY, CONCEALED ABOVE FINISH FLOOR, NUMBER OF HASHMARKS INDICATE NUMBER OF WIRES WITHIN. SHALL SUBMIT DRAWINGS SHOWING THE PROPOSED METHOD FOR APPROVAL. THE CONTRACTOR SHALL NOT PROCEED UNTIL APPROVAL IS RACEWAY, CONCEALED BELOW FINISH FLOOR, NO HASHMARKS INDICATES TWO WIRES WITHIN. OBTAINED. REARRANGEMENT OF WORK FOR THE PURPOSE OF COORDINATION BETWEEN TRADES SHALL NOT BE CONSIDERED A REASON FOR EXTRA COST. ---- EXPOSED RACEWAY. 7. EXISTING CONDITION SHOWN ON DRAWINGS ARE TAKEN FROM PAST DESIGN DRAWINGS AND VISUAL FIELD INVESTIGATION. PRIOR TO START ---- FLEXIBLE RACEWAY. OF CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS SHOWN. DEVIATIONS SHALL BE SHOWN ON AS-BUILT DRAWINGS. 8. THE CONTRACTOR SHALL PAINT ALL NEW EXPOSED RACEWAYS AND BOXES TO MATCH SURROUNDING FINISH. HIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION 9. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES. (2) - | ELECTRICAL NOTE INDICATOR. 10. ALL MATERIAL, EQUIPMENT, AND WIRING LOCATED OUTDOORS SHALL BE RATED FOR WET LOCATIONS. UPPER HALF: FIXTURE TYPE. LOWER HALF: NO. OF LAMPS & WATTS OR LENGTH. FIXTURE INDICATOR 11. THE CONTRACTOR SHALL LABEL EACH RECEPTACLE WITH PANEL NAME AND CIRCUIT NUMBER. USE ADHESIVE LABELS — BLACK LETTERING UPPER HALF: DETAIL NUMBER. LOWER HALF: SHEET NUMBER, DETAIL LOCATION. ON CLEAR BACKGROUND. DETAIL INDICATOR 12. THE CONTRACTOR SHALL FILL—IN THE PANEL SCHEDULES OF ELECTRIC PANEL USING A TYPEWRITER. PROVIDE CIRCUIT DESCRIPTIONS BASED INDICATES NIGHT LIGHT. ON PANEL SCHEDULE DESCRIPTIONS FOR NEW CIRCUITS. 13. ALL MULTIWIRE BRANCH CIRCUITS SHALL BE IN ACCORDANCE WITH NEC ARTICLE 210.4. ALL CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. MOUNTING HEIGHT SCHEDULE REFERENCE POINT MOUNTING DEVICE REMARKS ON PLAN HEIGHT Submittal Phase FLOOR CEILING TO CL TOP MOUNTING HEIGHT SHALL BE TO TOP OF OPERABLE PART. BID DOCUMENTS 06/01/18 SUBMITTAL DATE MOUNTING HEIGHT SHALL BE  $\Rightarrow$ SM TO BOTTOM OF PLATE. 5'-6" WAREHOUS WALL SURFACE MOUNTED, FULL CUTOFF DARK SKY COMPLIANT **TRAINING** CEILING PENDANT MOUNTED @ 25'-0" TO BOTTOM PROVIDE WITH - PHOTOELECTRIC **EMERGENCY** CONTROL BATTERY PACK. HOUSING, BRONZE FINISH SUITABLE FOR WET LOCATIONS. FULLY GASKETED **POHAKUL** CLEAR LED LAMP SHALL HAVE 500 nm EXTRUDED ALUM POLYCARBONATE LENS, BLUE LIGHT SUPPRESSION TO HEAT SINKS FULLY GASKETED MEET BIG ISLAND ORDINANCE FROSTED LENS, REQUIREMENT. WEIGHT: 14 LBS. WIDE DISTRIBUTION LIGHT ENGINE DRIVER: 120/277V, ELECTRONIC MANUFACTURER: C&W ENERGY SOLUTIONS DRIVER: 120/277V, ELECTRONIC MANUFACTURER: FLEX LIGHTING SOLUTIONS LED DRIVER, 450mA # CWES-HIB-WZP-74-1-4-AS NOTED # ES40P-AL-24K-6MS-35K-80-FR-LV-MBR-WG-EMB UN-BZ-YL-2V-PC-SS LAMP: 36 WATT LED, EQUIVALENT TO LAMP: 149 WATT LED, 24000 LUMENS OR APPROVED EQUAL. CA-1807-C OR APPROVED EQUAL. FEDERAL PROJECT NO. 55W LOW-PRESSURE SODIUM 4000°K COLOR TEMP. 25 of 27 FIXTURE TYPE "A" FIXTURE TYPE "B" E001 341.360

